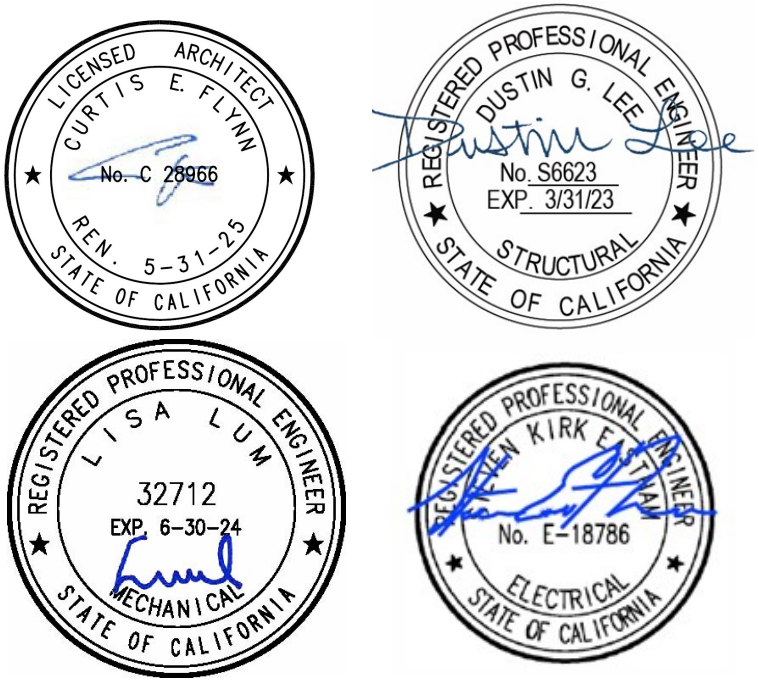
ADDENDUM NO. 2

PROJECT: 5526
May 3, 2024

BAKERSFIELD CITY SCHOOL DISTRICT
WAYSIDE ELEMENTARY SCHOOL
HVAC REPLACEMENT
1000 MING AVENUE
BAKERSFIELD, CA 93307

DSA APP# 03-122531



This Addendum and Addendum drawings form a part of the Contract Documents. It modifies the original Project Manual and Drawings. Bidders are required to acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to acknowledge receipt of each addendum may subject bidder to disqualification.

DIVISION 0 Bidding Manual

1. 00 01 20 LIST OF SCHEDULES:

   a. Schedule dated May 3, 2024, has been added.

2. 00 21 13 INSTRUCTIONS TO BIDDERS:

   b. The following bid packages have been updated with all changes shown in red. Replace the following Bid Packages in their entirety with those attached:

      i. 00 21 13.00 BP00 Standard Project Requirements – Addendum No. 2
      ii. 00 21 13.01 BP01 Selective Demolition & Abatement – Addendum No. 2
      iii. 00 21 13.02 BP02 Rough Carpentry – Addendum No. 2
      iv. 00 21 13.03 BP03 Miscellaneous – Addendum No. 2
      v. 00 21 13.03 BP04 Cement Plaster & Drywall – Addendum 2
      vi. 00 21 13.05 BP05 Acoustical Ceilings – Addendum No. 2
      vii. 00 21 13.06 BP06 Floor Covering – Addendum No. 2
      viii. 00 21 13.07 BP07 Painting – Addendum No. 2
      ix. 00 21 13.08 BP08 Mechanical – Addendum No. 2
      x. 00 21 13.09 BP09 Electrical & Fire Alarm – Addendum No. 2

1. 00 51 00 NOTICE OF AWARD:

   c. Notice of Award has been modified to state that plans will be provided electronically; no physical copies will be provided to the Contractor.

HVAC EQUIPMENT:

1. The Owner is providing all HVAC equipment shown on the Purchase Order / Sigler Proposal Document attached. All equipment is to be installed under BP08 Mechanical.
2. The Owner is providing all the thermostats. Thermostats are to be installed under BP08 Mechanical.

ELECTRICAL EQUIPMENT:

The Owner is proving all electrical equipment that has been included in the 'Equipment Bid Package 02/17/23' document attached. All equipment is to be installed under BP09 Electrical & Fire Alarm.

3-01 **DRAWINGS, E1.00 – SITE ELECTRICAL PLAN:** Equipment Bid Package, Bid Alternate #1, Exhibit 1.

3-02 **DRAWINGS, E1.01 – ENLARGED SITE ELECTRICAL PLAN:** Equipment Bid Package, Bid Alternate #1, Exhibit 1.

3-03 **DRAWINGS, E2.11 – NEW POWER PLANS – BUILDINGS D, E, & CHILLER YARD:** Equipment Bid Package, Bid Alternate #1, Exhibit 1.

3-04 **DRAWINGS, E4.00 – ONE LINE DIAGRAM -DEMOLITION:** Equipment Bid Package, Bid Alternate #1, Exhibit 1.

3-05 **DRAWINGS, E4.01 – NEW ONE LINE DIAGRAM**: Equipment Bid Package, Bid Alternate #1, Exhibit 1.

3-06 **DRAWINGS, E4.02 – PANEL SCHEDULES:** Equipment Bid Package, Bid Alternate #1, Exhibit 1.

GENERAL:

1. Job Walk Sign-In Sheet: Sign-in sheet from job walk on April 17, 2024

2. SC Anderson's Phasing Plan: This plan is intended to show the proposed contained laydown areas for the Contractor's use. Materials, supplies, dumpsters, etc. can be stored within each Phase's fenced area.

3. Prebid RFIs: Prebid Requests for Information number 1 through 13 with response.

PROJECT MANUAL

2-01 **PROJECT MANUAL, SPECIFICATION SECTION 000110 – TABLE OF CONTENTS:** Add specification section 000110 in its entirety.

2-02 **PROJECT MANUAL, SPECIFICATION SECTION 017419 – CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL:** Add specification section 017419 in its entirety.

2-03 **PROJECT MANUAL, SPECIFICATION SECTION 075713 – SPRAYED FOAM ROOFING SYSTEM:** Add specification section 075713 in its entirety.

2-04 **PROJECT MANUAL, SPECIFICATION SECTION 092400 - CEMENT PLASTERING:** Add specification section 092400 in its entirety.

2-05 **PROJECT MANUAL, SPECIFICATION SECTION 096513 – RESILIENT BASE AND ACCESSORIES:** Add specification section 096513 in its entirety.

2-06 **PROJECT MANUAL, SPECIFICATION SECTION 096813 – TILE CARPETING:** Add specification section 096813 in its entirety.

2-07 **PROJECT MANUAL, SPECIFICATION SECTION 312000 – EARTH MOVING:** Add specification section 312000 in its entirety.

2-08 **PROJECT MANUAL, SPECIFICATION SECTION 321216 – ASPHALT PAVING:** Add specification section 321216 in its entirety.

DRAWINGS

ARCHITECTURAL

2-09 **DRAWINGS, T0.00 TITLE SHEET:** Replace sheet T0.00 in its entirety with Addendum 2 sheet T0.00.

2-10 **DRAWINGS, A1.00 – SITE PLAN:** Replace sheet A1.00 in its entirety with Addendum 2 sheet A1.00.

2-11 **DRAWINGS, A2.10 – DEMOLITION FLOOR PLANS:** Replace sheet A2.10 in its entirety with Addendum 2 sheet A2.10.

2-12 **DRAWINGS, A2.11 – DEMOLITION FLOOR PLANS:** Replace sheet A2.11 in its entirety with Addendum 2 sheet A2.11.

2-13 **DRAWINGS, A2.20 – FLOOR PLANS:** Replace sheet A2.20 in its entirety with Addendum 2 sheet A2.20.

2-14 **DRAWINGS, A2.21 – FLOOR PLANS:** Replace sheet A2.21 in its entirety with Addendum 2 sheet A2.21.

2-15 **DRAWINGS, A3.11 – SECTIONS – DEMO:** Replace sheet A3.11 in its entirety with Addendum 2 sheet A3.11.

2-16 **DRAWINGS, A3.12 – SECTIONS:** Replace sheet A3.12 in its entirety with Addendum 2 sheet A3.12.

2-17 **DRAWINGS, A4.10 – ROOF PLANS:** Replace sheet A4.10 in its entirety with Addendum 2 sheet A4.10.

2-18 **DRAWINGS, A4.30 – ROOF PLANS:** Replace sheet A4.30 in its entirety with Addendum 2 sheet A4.30.

2-19 **DRAWINGS, A6.10 – DEMO REFLECTED CEILING PLANS:** Replace sheet A6.10 in its entirety with Addendum 2 sheet A6.10.

2-20 **DRAWINGS, A6.11 – DEMO REFLECTED CEILING PLANS:** Replace sheet A6.11 in its entirety with Addendum 2 sheet A6.11.

2-21 **DRAWINGS, A6.20 – REFLECTED CEILING PLANS:** Replace sheet A6.20 in its entirety with Addendum 2 sheet A6.20.

2-22 **DRAWINGS, A6.21 – REFLECTED CEILING PLANS:** Replace sheet A6.21 in its entirety with Addendum 2 sheet A6.21.

2-23 **DRAWINGS, A8.01 – INTERIOR DETAILS:** Replace sheet A8.01 in its entirety with Addendum 2 sheet A8.01.

MECHANICAL

2-24 **DRAWINGS, M0.11 – DETAILS:** Replace sheet M0.11 in its entirety with Addendum 2 sheet M0.11.

2-25 **DRAWINGS, M2.11 – MECHANICAL PLAN – BUILDING A:** Replace sheet M2.11 in its entirety with Addendum 2 sheet M2.11.

2-26 **DRAWINGS, M2.21 – MECHANICAL PLAN – BUILDING B:** Replace sheet M2.21 in its entirety with Addendum 2 sheet M2.21.

2-27 **DRAWINGS, M2.31 – MECHANICAL PLAN – BUILDING C:** Replace sheet M2.31 in its entirety with Addendum 2 sheet M2.31.

2-28 **DRAWINGS, M2.41 – MECHANICAL PLAN – BUILDING D:** Replace sheet M2.41 in its entirety with Addendum 2 sheet M2.41.

2-29 **DRAWINGS, M2.51 – MECHANICAL PLAN – BUILDING E:** Replace sheet M2.51 in its entirety with Addendum 2 sheet M2.51.

ELECTRICAL

2-30 **DRAWINGS, E0.01 – CODES, NOTES SYMBOLS & FIXTURE SCHEDULES:** Replace sheet E0.01 in its entirety with Addendum 2 sheet E0.01.

2-31 **DRAWINGS, E1.00 –SITE ELECTRICAL PLAN:** Replace sheet E1.00 in its entirety with Addendum 2 sheet E1.00.

2-32 **DRAWINGS, E2.00 – DEMOLITION POWER PLANS BUILDING A, B, & C:** Replace sheet E2.00 in its entirety with Addendum 2 sheet E2.00.

2-33 **DRAWINGS, E2.10 – NEW POWER PLANS BUILDING A, B & C:** Replace sheet E2.10 in its entirety with Addendum 2 sheet E2.10.

2-34 **DRAWINGS, E2.11 – NEW POWER PLANS – BLDGS D, E & CHILLER YARD:** Replace sheet E2.11 in its entirety with Addendum 2 sheet E2.11.

2-35 **DRAWINGS, E2.20 – NEW LIGHTING PLANS BUILDING A, B & C:** Replace sheet E2.20 in its entirety with Addendum 2 sheet E2.20.

2-36 **DRAWINGS, E2.21 – NEW LIGHTING PLANS – BLDGS D, E & F:** Replace sheet E2.21 in its entirety with Addendum 2 sheet E2.21.

2-37 **DRAWINGS, E2.30 – NEW ROOF ELECTRICAL PLANS BUILDING A, B, & C:** Replace sheet E2.30 in its entirety with Addendum 2 sheet E2.30.

2-38 **DRAWINGS, E2.31 – NEW ROOF ELECTRICAL PLANS – BLDG. D, E, F & G:** Replace sheet E2.31 in its entirety with Addendum 2 sheet E2.31.

2-39 **DRAWINGS, E3.00 – DEMOLITION FIRE ALARM PLANS BUILDINGS A, B, & C:** Replace sheet E3.00 in its entirety with Addendum 2 sheet E3.00.

2-40 **DRAWINGS, E3.01 – DEMOLITION FIRE ALARM PLANS – BLDGS D, E, F, G, & H:** Replace sheet E3.01 in its entirety with Addendum 2 sheet E3.01.

2-41 **DRAWINGS, E3.10 – NEW FIRE ALARM PLANS BUILDING A, B, & C:** Replace sheet E3.10 in its entirety with Addendum 2 sheet E3.10.

2-42 **DRAWINGS, E3.11 – NEW FIRE ALARM PLANS – BLDS D, E, F, G & H:** Replace sheet E3.11 in its entirety with Addendum 2 sheet E3.11.

2-43 **DRAWINGS, E3.20 – FIRE ALARM CODES, NOTES, SYMBOLS, CALCS:** Replace sheet E3.20 in its entirety with Addendum 2 sheet E3.20.

2-44 **DRAWINGS, E3.21 – FIRE ALARM SYSTEM RISER DIAGRAM:** Replace sheet E3.21 in its entirety with Addendum 2 sheet E3.21.

2-45 **DRAWINGS, E4.03 – PANEL SCHEDULES:** Replace sheet E4.03 in its entirety with Addendum 2 sheet E4.03.

2-46 **DRAWINGS, E5.00 – DETAILS:** Replace sheet E5.00 in its entirety with Addendum 2 sheet E5.00.

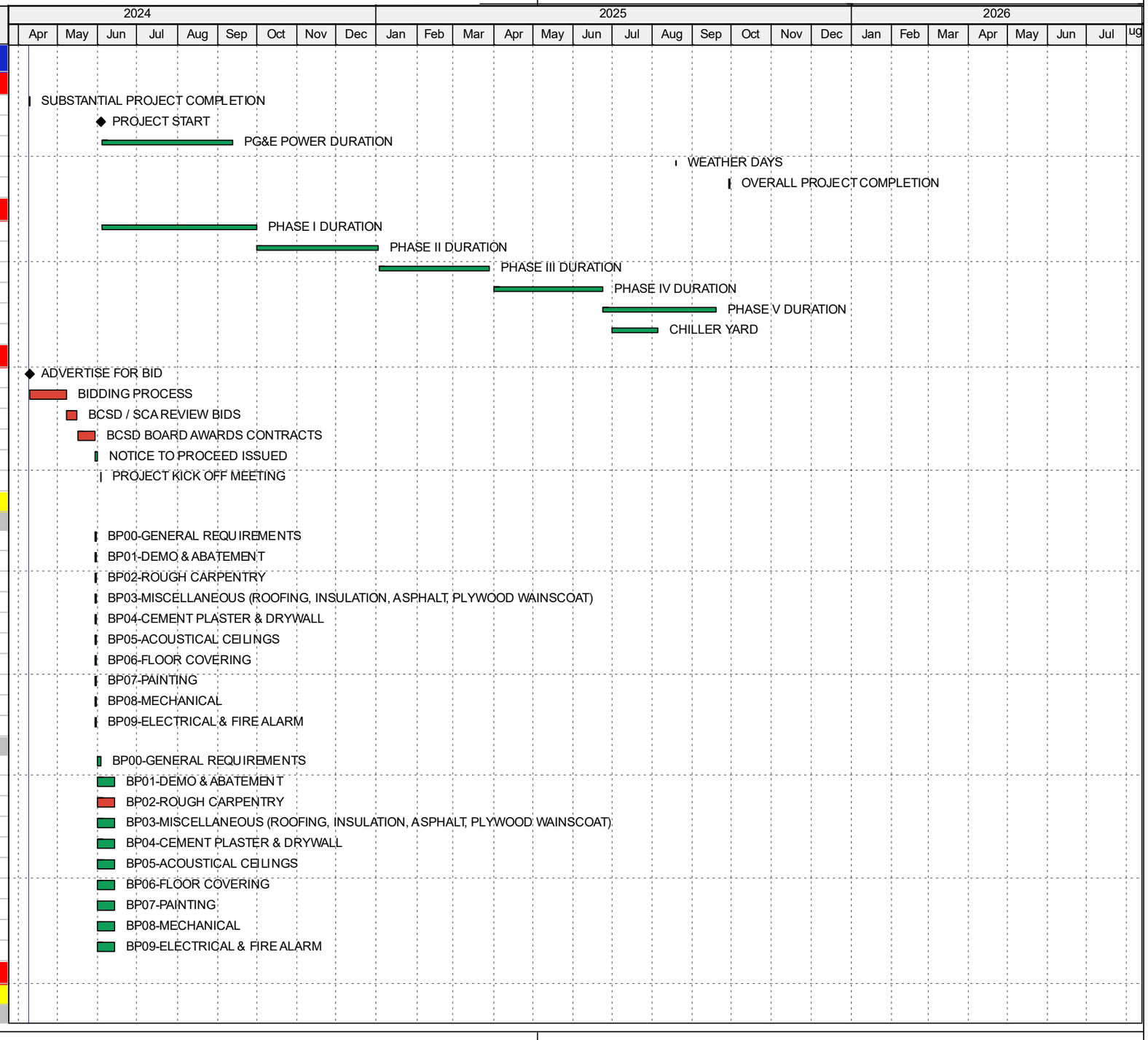
END ADDENDUM NO. 2

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.

GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
1	**PRELIMINARY BASELINE - WAYSIDE ELEM**		373	09-Apr-24	29-Sep-25
2	**PROJECT SUMMARY**		373	09-Apr-24	29-Sep-25
3	PS-1020	SUBSTANTIAL PROJECT COMPLETIC	1	09-Apr-24	09-Apr-24
4	PS-1000	PROJECT START	0	03-Jun-24	
5	PS-1010	PG&E POWER DURATION	71	04-Jun-24	12-Sep-24
6	PS-1030	WEATHER DAYS	0	19-Aug-25	19-Aug-25
7	PS-1040	OVERALL PROJECT COMPLETION	1	29-Sep-25	29-Sep-25
8	**PROJECT PHASING SUMMARY**		328	04-Jun-24	19-Sep-25
9	PPS-1000	PHASE I DURATION	83	04-Jun-24	30-Sep-24
10	PPS-1010	PHASE II DURATION	63	01-Oct-24	02-Jan-25
11	PPS-1020	PHASE III DURATION	60	03-Jan-25	28-Mar-25
12	PPS-1030	PHASE IV DURATION	59	01-Apr-25	23-Jun-25
13	PPS-1040	PHASE V DURATION	62	24-Jun-25	19-Sep-25
14	PPS-1050	CHILLER YARD	25	01-Jul-25	05-Aug-25
15	**PROJECT ADMINISTRATION**		47	09-Apr-24	13-Jun-24
16	PA-1000	ADVERTISE FOR BID	0	09-Apr-24	
17	PA-1010	BIDDING PROCESS	21	09-Apr-24	07-May-24
18	PA-1020	BCSD / SCA REVIEW BIDS	6	08-May-24	15-May-24
19	PA-1030	BCSD BOARD AWARDS CONTRACTS	9	16-May-24	29-May-24
20	PA-1040	NOTICE TO PROCEED ISSUED	2	30-May-24	31-May-24
21	PA-1050	PROJECT KICK OFF MEETING	1	03-Jun-24	03-Jun-24
22	**TRADE CONTRACTS**		11	30-May-24	13-Jun-24
23	**PREPARE & SUBMIT**		1	30-May-24	30-May-24
24	TCPS-1000	BP00-GENERAL REQUIREMENTS	1	30-May-24	30-May-24
25	TCPS-1010	BP01-DEMO & ABATEMENT	1	30-May-24	30-May-24
26	TCPS-1020	BP02-ROUGH CARPENTRY	1	30-May-24	30-May-24
27	TCPS-1030	BP03-MISCELLANEOUS (ROOFING, I	1	30-May-24	30-May-24
28	TCPS-1040	BP04-CEMENT PLASTER & DRYWALI	1	30-May-24	30-May-24
29	TCPS-1050	BP05-ACOUSTICAL CEILINGS	1	30-May-24	30-May-24
30	TCPS-1060	BP06-FLOOR COVERING	1	30-May-24	30-May-24
31	TCPS-1070	BP07-PAINTING	1	30-May-24	30-May-24
32	TCPS-1080	BP08-MECHANICAL	1	30-May-24	30-May-24
33	TCPS-1090	BP09-ELECTRICAL & FIRE ALARM	1	30-May-24	30-May-24
34	**EXECUTED**		10	31-May-24	13-Jun-24
35	TCEX1000	BP00-GENERAL REQUIREMENTS	2	31-May-24	03-Jun-24
36	TCEX1010	BP01-DEMO & ABATEMENT	10	31-May-24	13-Jun-24
37	TCEX1020	BP02-ROUGH CARPENTRY	10	31-May-24	13-Jun-24
38	TCEX1030	BP03-MISCELLANEOUS (ROOFING, I	10	31-May-24	13-Jun-24
39	TCEX1040	BP04-CEMENT PLASTER & DRYWALI	10	31-May-24	13-Jun-24
40	TCEX1050	BP05-ACOUSTICAL CEILINGS	10	31-May-24	13-Jun-24
41	TCEX1060	BP06-FLOOR COVERING	10	31-May-24	13-Jun-24
42	TCEX1070	BP07-PAINTING	10	31-May-24	13-Jun-24
43	TCEX1080	BP08-MECHANICAL	10	31-May-24	13-Jun-24
44	TCEX1090	BP09-ELECTRICAL & FIRE ALARM	10	31-May-24	13-Jun-24
45	**SUBMITTALS**		16	04-Jun-24	25-Jun-24
46	**TIER 1 (6+ WEEK LEAD TIMES)**		8	14-Jun-24	25-Jun-24
47	**PREPARE & SUBMIT**		1	14-Jun-24	14-Jun-24



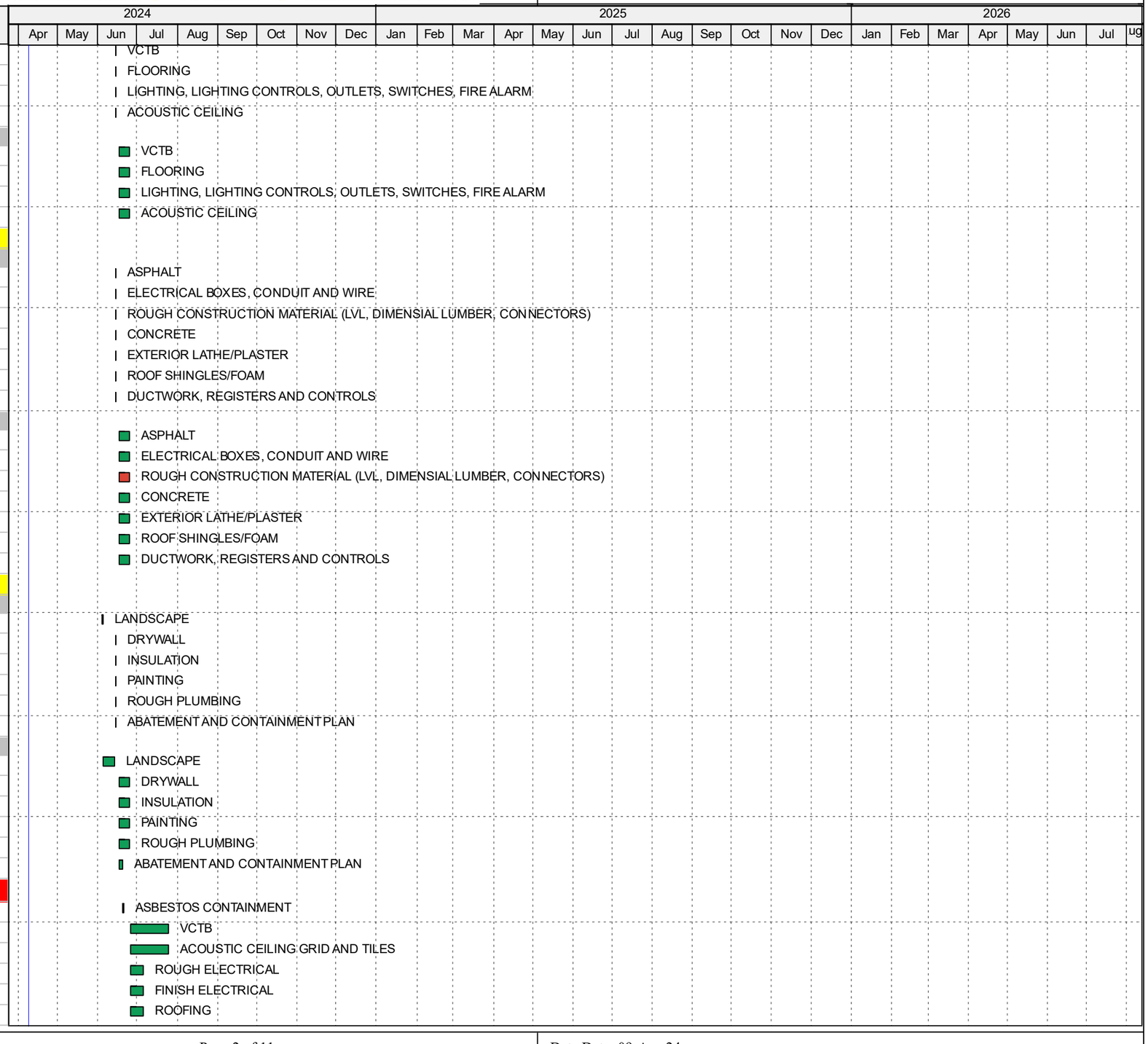
Remaining Level of Effort | Second Baseline | Remaining Work
Actual Level of Effort | Actual Work | Critical Remaining Work

Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
48	P&S-1000	VCTB	1	14-Jun-24	14-Jun-24
49	P&S-1010	FLOORING	1	14-Jun-24	14-Jun-24
50	P&S-1020	LIGHTING, LIGHTING CONTROLS, OI	1	14-Jun-24	14-Jun-24
51	P&S-1030	ACOUSTIC CEILING	1	14-Jun-24	14-Jun-24
52	**REVIEW & APPROVE**		7	17-Jun-24	25-Jun-24
53	R&A-1000	VCTB	7	17-Jun-24	25-Jun-24
54	R&A-1010	FLOORING	7	17-Jun-24	25-Jun-24
55	R&A-1020	LIGHTING, LIGHTING CONTROLS, OI	7	17-Jun-24	25-Jun-24
56	R&A-1030	ACOUSTIC CEILING	7	17-Jun-24	25-Jun-24
57	**TIER 2 (2-6 WEEK LEAD TIMES)**		8	14-Jun-24	25-Jun-24
58	**PREPARE & SUBMIT**		1	14-Jun-24	14-Jun-24
59	P&S-2000	ASPHALT	1	14-Jun-24	14-Jun-24
60	P&S-2010	ELECTRICAL BOXES, CONDUIT AND	1	14-Jun-24	14-Jun-24
61	P&S-2020	ROUGH CONSTRUCTION MATERIAL	1	14-Jun-24	14-Jun-24
62	P&S-2030	CONCRETE	1	14-Jun-24	14-Jun-24
63	P&S-2040	EXTERIOR LATHE/PLASTER	1	14-Jun-24	14-Jun-24
64	P&S-2050	ROOF SHINGLES/FOAM	1	14-Jun-24	14-Jun-24
65	P&S-2060	DUCTWORK, REGISTERS AND CON	1	14-Jun-24	14-Jun-24
66	**REVIEW & APPROVE**		7	17-Jun-24	25-Jun-24
67	R&A-2000	ASPHALT	7	17-Jun-24	25-Jun-24
68	R&A-2010	ELECTRICAL BOXES, CONDUIT AND	7	17-Jun-24	25-Jun-24
69	R&A-2020	ROUGH CONSTRUCTION MATERIAL	7	17-Jun-24	25-Jun-24
70	R&A-2030	CONCRETE	7	17-Jun-24	25-Jun-24
71	R&A-2040	EXTERIOR LATHE/PLASTER	7	17-Jun-24	25-Jun-24
72	R&A-2050	ROOF SHINGLES/FOAM	7	17-Jun-24	25-Jun-24
73	R&A-2060	DUCTWORK, REGISTERS AND CON	7	17-Jun-24	25-Jun-24
74	**TIER 3 (2 WEEKS OR LESS LEAD TIMES)**		16	04-Jun-24	25-Jun-24
75	**PREPARE & SUBMIT**		9	04-Jun-24	14-Jun-24
76	P&S-3030	LANDSCAPE	1	04-Jun-24	04-Jun-24
77	P&S-3000	DRYWALL	1	14-Jun-24	14-Jun-24
78	P&S-3010	INSULATION	1	14-Jun-24	14-Jun-24
79	P&S-3020	PAINTING	1	14-Jun-24	14-Jun-24
80	P&S-3040	ROUGH PLUMBING	1	14-Jun-24	14-Jun-24
81	P&S-3050	ABATEMENT AND CONTAINMENT PL	1	14-Jun-24	14-Jun-24
82	**REVIEW & APPROVE**		15	05-Jun-24	25-Jun-24
83	R&A-3030	LANDSCAPE	7	05-Jun-24	13-Jun-24
84	R&A-3000	DRYWALL	7	17-Jun-24	25-Jun-24
85	R&A-3010	INSULATION	7	17-Jun-24	25-Jun-24
86	R&A-3020	PAINTING	7	17-Jun-24	25-Jun-24
87	R&A-3040	ROUGH PLUMBING	7	17-Jun-24	25-Jun-24
88	R&A-3050	ABATEMENT AND CONTAINMENT PL	3	17-Jun-24	19-Jun-24
89	**PROCUREMENT**		52	20-Jun-24	03-Sep-24
90	PRO-1100	ASBESTOS CONTAINMENT	1	20-Jun-24	20-Jun-24
91	PRO-1000	VCTB	21	26-Jun-24	25-Jul-24
92	PRO-1010	ACOUSTIC CEILING GRID AND TILES	21	26-Jun-24	25-Jul-24
93	PRO-1020	ROUGH ELECTRICAL	7	26-Jun-24	05-Jul-24
94	PRO-1030	FINISH ELECTRICAL	7	26-Jun-24	05-Jul-24
95	PRO-1040	ROOFING	7	26-Jun-24	05-Jul-24



Remaining Level of Effort
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Critical Remaining Work

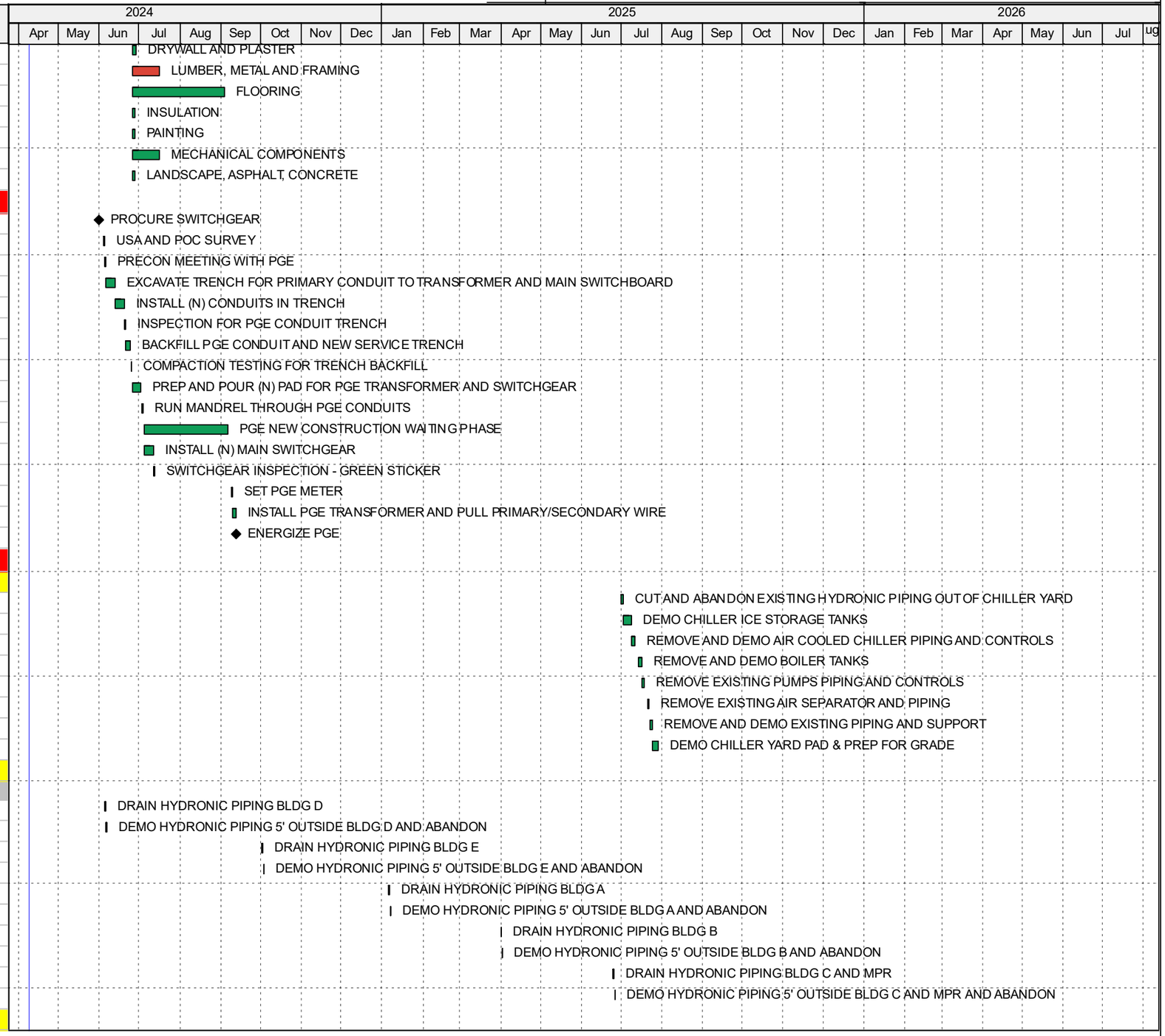
Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.

GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
96	PRO-1050	DRYWALL AND PLASTER	3	26-Jun-24	28-Jun-24
97	PRO-1060	LUMBER, METAL AND FRAMING	14	26-Jun-24	16-Jul-24
98	PRO-1070	FLOORING	48	26-Jun-24	03-Sep-24
99	PRO-1080	INSULATION	2	26-Jun-24	27-Jun-24
100	PRO-1090	PAINTING	2	26-Jun-24	27-Jun-24
101	PRO-1110	MECHANICAL COMPONENTS	14	26-Jun-24	16-Jul-24
102	PRO-1120	LANDSCAPE, ASPHALT, CONCRETE	2	26-Jun-24	27-Jun-24
103	**PG&E POWER**		72	31-May-24	12-Sep-24
104	PGE-1000	PROCURE SWITCHGEAR	0		31-May-24
105	PGE-1010	USA AND POC SURVEY	1	04-Jun-24	04-Jun-24
106	PGE-1020	PRECON MEETING WITH PGE	1	05-Jun-24	05-Jun-24
107	PGE-1030	EXCAVATE TRENCH FOR PRIMARY (	5	06-Jun-24	12-Jun-24
108	PGE-1040	INSTALL (N) CONDUITS IN TRENCH	5	13-Jun-24	19-Jun-24
109	PGE-1050	INSPECTION FOR PGE CONDUIT TR	1	20-Jun-24	20-Jun-24
110	PGE-1060	BACKFILL PGE CONDUIT AND NEW S	2	21-Jun-24	24-Jun-24
111	PGE-1070	COMPACTION TESTING FOR TRENC	1	25-Jun-24	25-Jun-24
112	PGE-1080	PREP AND POUR (N) PAD FOR PGE T	5	26-Jun-24	02-Jul-24
113	PGE-1090	RUN MANDREL THROUGH PGE CON	1	03-Jul-24	03-Jul-24
114	PGE-1100	PGE NEW CONSTRUCTION WAITING	45	05-Jul-24	06-Sep-24
115	PGE-1110	INSTALL (N) MAIN SWITCHGEAR	5	05-Jul-24	11-Jul-24
116	PGE-1120	SWITCHGEAR INSPECTION - GREEN	1	12-Jul-24	12-Jul-24
117	PGE-1130	SET PGE METER	1	09-Sep-24	09-Sep-24
118	PGE-1140	INSTALL PGE TRANSFORMER AND F	3	10-Sep-24	12-Sep-24
119	PGE-1150	ENERGIZE PGE	0		12-Sep-24
120	**SITE CONSTRUCTION**		295	05-Jun-24	05-Aug-25
121	**DEMOLITION**		20	01-Jul-25	29-Jul-25
122	DEMO-1000	CUT AND ABANDON EXISTING HYDF	2	01-Jul-25	02-Jul-25
123	DEMO-1010	DEMO CHILLER ICE STORAGE TANK	3	03-Jul-25	08-Jul-25
124	DEMO-1020	REMOVE AND DEMO AIR COOLED C	3	09-Jul-25	11-Jul-25
125	DEMO-1030	REMOVE AND DEMO BOILER TANKS	3	14-Jul-25	16-Jul-25
126	DEMO-1040	REMOVE EXISTING PUMPS PIPING A	2	17-Jul-25	18-Jul-25
127	DEMO-1050	REMOVE EXISTING AIR SEPARATOR	2	21-Jul-25	22-Jul-25
128	DEMO-1060	REMOVE AND DEMO EXISTING PIPI	2	23-Jul-25	24-Jul-25
129	DEMO-1070	DEMO CHILLER YARD PAD & PREP F	3	25-Jul-25	29-Jul-25
130	**WET UTILITIES**		268	05-Jun-24	26-Jun-25
131	**HYDRONIC WATER SYSTEM**		268	05-Jun-24	26-Jun-25
132	HWS-1000	DRAIN HYDRONIC PIPING BLDG D	1	05-Jun-24	05-Jun-24
133	HWS-1010	DEMO HYDRONIC PIPING 5' OUTSID	1	06-Jun-24	06-Jun-24
134	HWS-1020	DRAIN HYDRONIC PIPING BLDG E	1	02-Oct-24	02-Oct-24
135	HWS-1030	DEMO HYDRONIC PIPING 5' OUTSID	1	03-Oct-24	03-Oct-24
136	HWS-1040	DRAIN HYDRONIC PIPING BLDG A	1	06-Jan-25	06-Jan-25
137	HWS-1050	DEMO HYDRONIC PIPING 5' OUTSID	1	07-Jan-25	07-Jan-25
138	HWS-1060	DRAIN HYDRONIC PIPING BLDG B	1	01-Apr-25	01-Apr-25
139	HWS-1070	DEMO HYDRONIC PIPING 5' OUTSID	1	02-Apr-25	02-Apr-25
140	HWS-1080	DRAIN HYDRONIC PIPING BLDG C A	1	25-Jun-25	25-Jun-25
141	HWS-1090	DEMO HYDRONIC PIPING 5' OUTSID	1	26-Jun-25	26-Jun-25
142	**DRY UTILITIES**		273	08-Jul-24	05-Aug-25



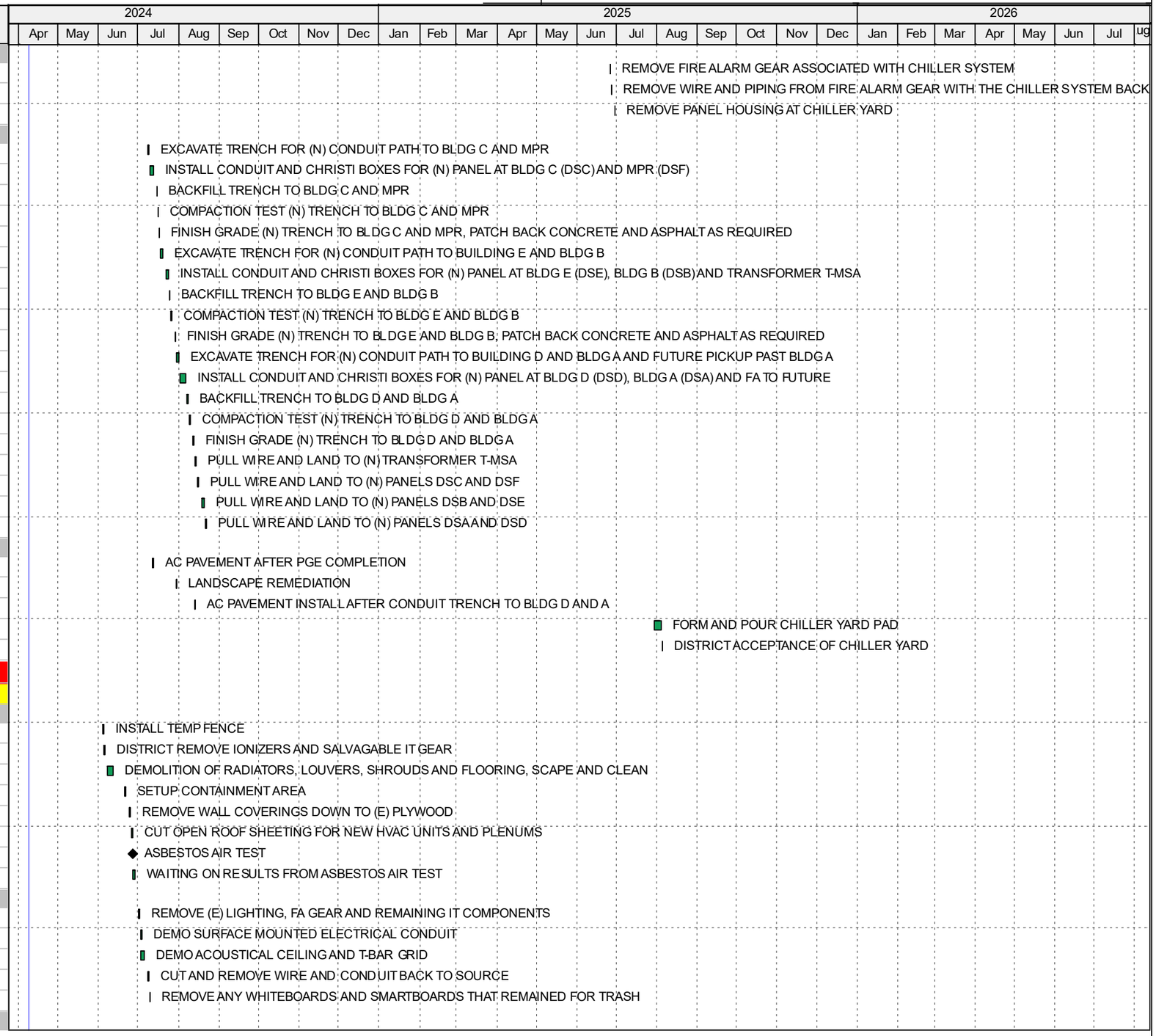
Remaining Level of Effort
Actual Level of Effort
Second Baseline
Actual Work
Remaining Work
Critical Remaining Work

Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
143	**FIRE ALARM**		3	26-Jun-25	30-Jun-25
144	FA-1000	REMOVE FIRE ALARM GEAR ASSOC	1	26-Jun-25	26-Jun-25
145	FA-1010	REMOVE WIRE AND PIPING FROM F	1	27-Jun-25	27-Jun-25
146	FA-1020	REMOVE PANEL HOUSING AT CHILL	1	30-Jun-25	30-Jun-25
147	**SITE ELECTRICAL (SECONDARY)**		34	08-Jul-24	22-Aug-24
148	ELEC-1000	EXCAVATE TRENCH FOR (N) CONDU	2	08-Jul-24	09-Jul-24
149	ELEC-1010	INSTALL CONDUIT AND CHRISTI BO	3	10-Jul-24	12-Jul-24
150	ELEC-1020	BACKFILL TRENCH TO BLDG C AND	1	15-Jul-24	15-Jul-24
151	ELEC-1030	COMPACTION TEST (N) TRENCH TO	1	16-Jul-24	16-Jul-24
152	ELEC-1040	FINISH GRADE (N) TRENCH TO BLD	1	17-Jul-24	17-Jul-24
153	ELEC-1050	EXCAVATE TRENCH FOR (N) CONDU	2	18-Jul-24	19-Jul-24
154	ELEC-1060	INSTALL CONDUIT AND CHRISTI BO	3	22-Jul-24	24-Jul-24
155	ELEC-1070	BACKFILL TRENCH TO BLDG E AND	1	25-Jul-24	25-Jul-24
156	ELEC-1080	COMPACTION TEST (N) TRENCH TO	1	26-Jul-24	26-Jul-24
157	ELEC-1090	FINISH GRADE (N) TRENCH TO BLD	1	29-Jul-24	29-Jul-24
158	ELEC-1100	EXCAVATE TRENCH FOR (N) CONDU	3	30-Jul-24	01-Aug-24
159	ELEC-1110	INSTALL CONDUIT AND CHRISTI BO	3	02-Aug-24	06-Aug-24
160	ELEC-1120	BACKFILL TRENCH TO BLDG D AND	2	07-Aug-24	08-Aug-24
161	ELEC-1130	COMPACTION TEST (N) TRENCH TO	1	09-Aug-24	09-Aug-24
162	ELEC-1140	FINISH GRADE (N) TRENCH TO BLD	1	12-Aug-24	12-Aug-24
163	ELEC-1150	PULL WIRE AND LAND TO (N) TRANS	2	13-Aug-24	14-Aug-24
164	ELEC-1160	PULL WIRE AND LAND TO (N) PANEL	2	15-Aug-24	16-Aug-24
165	ELEC-1170	PULL WIRE AND LAND TO (N) PANEL	2	19-Aug-24	20-Aug-24
166	ELEC-1180	PULL WIRE AND LAND TO (N) PANEL	2	21-Aug-24	22-Aug-24
167	**HARDSCAPES**		269	12-Jul-24	05-Aug-25
168	HARD-1000	AC PAVEMENT AFTER PGE COMPLE	1	12-Jul-24	12-Jul-24
169	HARD-1020	LANDSCAPE REMEDIATION	1	30-Jul-24	30-Jul-24
170	HARD-1010	AC PAVEMENT INSTALL AFTER CONI	1	13-Aug-24	13-Aug-24
171	HARD-1030	FORM AND POUR CHILLER YARD PA	4	30-Jul-25	04-Aug-25
172	HARD-1040	DISTRICT ACCEPTANCE OF CHILLEF	1	05-Aug-25	05-Aug-25
173	**PHASE I (BLDG G & BLDG D)**		83	04-Jun-24	30-Sep-24
174	**BLDG D**		83	04-Jun-24	30-Sep-24
175	**BLDG D ABATEMENT**		19	04-Jun-24	28-Jun-24
176	PHSI-0999	INSTALL TEMP FENCE	1	04-Jun-24	04-Jun-24
177	PHSI-1000	DISTRICT REMOVE IONIZERS AND S	1	05-Jun-24	05-Jun-24
178	PHSI-1020	DEMOLITION OF RADIATORS, LOUVE	3	07-Jun-24	11-Jun-24
179	PHSI-1010	SETUP CONTAINMENT AREA	1	21-Jun-24	21-Jun-24
180	PHSI-1030	REMOVE WALL COVERINGS DOWN	2	24-Jun-24	25-Jun-24
181	PHSI-1040	CUT OPEN ROOF SHEETING FOR NE	1	26-Jun-24	26-Jun-24
182	PHSI-1050	ASBESTOS AIR TEST	0		26-Jun-24
183	PHSI-1060	WAITING ON RESULTS FROM ASBES	2	27-Jun-24	28-Jun-24
184	**BLDG D DEMO**		7	01-Jul-24	10-Jul-24
185	PHSI-1070	REMOVE (E) LIGHTING, FA GEAR ANI	2	01-Jul-24	02-Jul-24
186	PHSI-1080	DEMO SURFACE MOUNTED ELECTF	1	03-Jul-24	03-Jul-24
187	PHSI-1090	DEMO ACOUSTICAL CEILING AND T-	2	03-Jul-24	05-Jul-24
188	PHSI-1100	CUT AND REMOVE WIRE AND CONE	2	08-Jul-24	09-Jul-24
189	PHSI-1110	REMOVE ANY WHITEBOARDS AND S	1	10-Jul-24	10-Jul-24
190	**BLDG D NEW CONSTRUCTION**		44	17-Jul-24	17-Sep-24



Remaining Level of Effort
Actual Level of Effort
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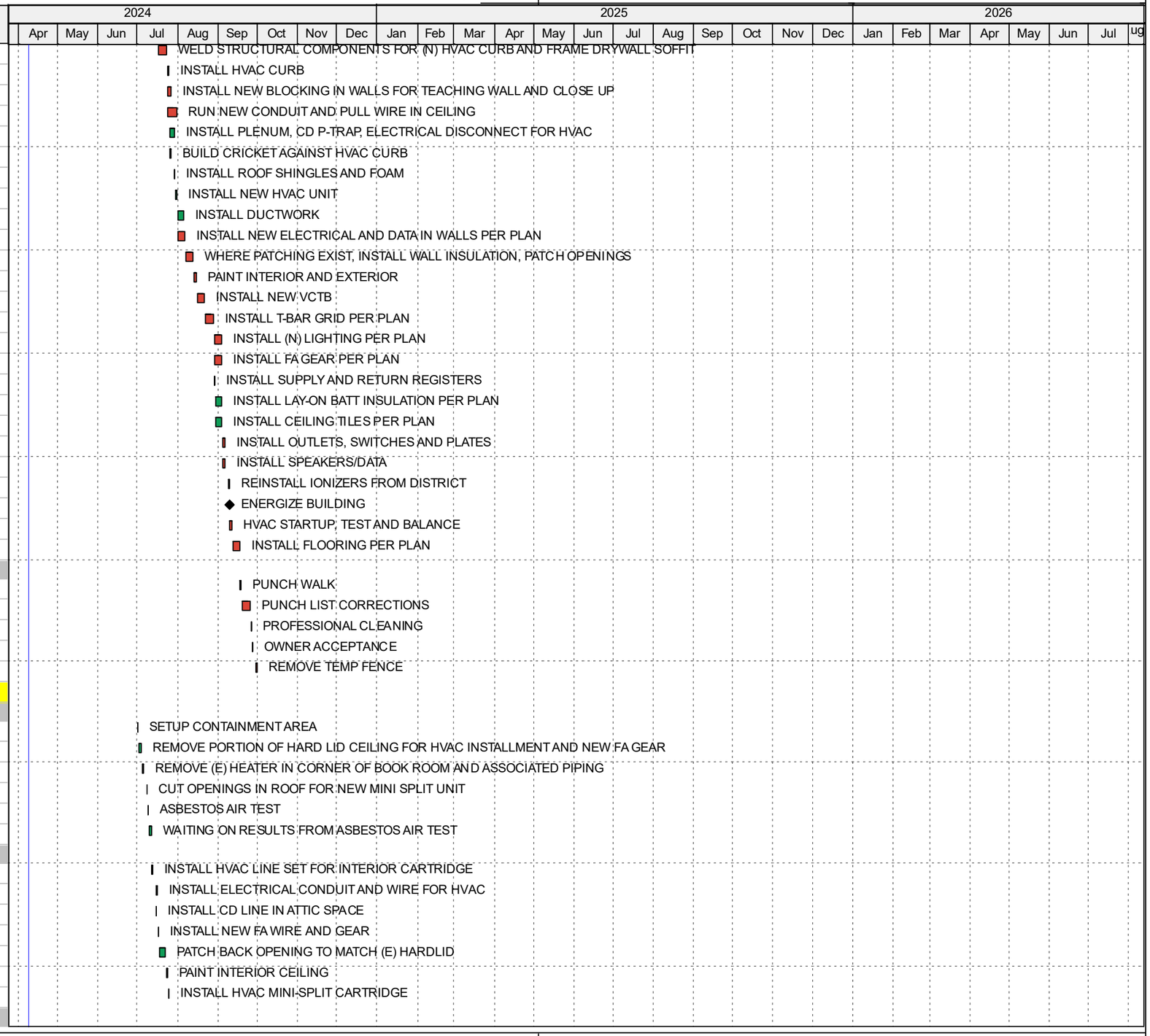
Remaining Work
Critical Remaining Work

Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
191	PHSI-1120	WELD STRUCTURAL COMPONENTS	5	17-Jul-24	23-Jul-24
192	PHSI-1130	INSTALL HVAC CURB	2	24-Jul-24	25-Jul-24
193	PHSI-1180	INSTALL NEW BLOCKING IN WALLS I	3	24-Jul-24	26-Jul-24
194	PHSI-1190	RUN NEW CONDUIT AND PULL WIRI	6	24-Jul-24	31-Jul-24
195	PHSI-1140	INSTALL PLENUM, CD P-TRAP, ELEC	2	26-Jul-24	29-Jul-24
196	PHSI-1150	BUILD CRICKET AGAINST HVAC CUI	1	26-Jul-24	26-Jul-24
197	PHSI-1170	INSTALL ROOF SHINGLES AND FOAI	1	29-Jul-24	29-Jul-24
198	PHSI-1160	INSTALL NEW HVAC UNIT	2	30-Jul-24	31-Jul-24
199	PHSI-1200	INSTALL DUCTWORK	3	01-Aug-24	05-Aug-24
200	PHSI-1210	INSTALL NEW ELECTRICAL AND DAT	4	01-Aug-24	06-Aug-24
201	PHSI-1220	WHERE PATCHING EXIST, INSTALL V	4	07-Aug-24	12-Aug-24
202	PHSI-1230	PAINT INTERIOR AND EXTERIOR	3	13-Aug-24	15-Aug-24
203	PHSI-1240	INSTALL NEW VCTB	4	16-Aug-24	21-Aug-24
204	PHSI-1250	INSTALL T-BAR GRID PER PLAN	5	22-Aug-24	28-Aug-24
205	PHSI-1260	INSTALL (N) LIGHTING PER PLAN	3	29-Aug-24	03-Sep-24
206	PHSI-1270	INSTALL FA GEAR PER PLAN	3	29-Aug-24	03-Sep-24
207	PHSI-1310	INSTALL SUPPLY AND RETURN REG	1	29-Aug-24	29-Aug-24
208	PHSI-1340	INSTALL LAY-ON BATT INSULATION F	2	30-Aug-24	03-Sep-24
209	PHSI-1350	INSTALL CEILING TILES PER PLAN	2	30-Aug-24	03-Sep-24
210	PHSI-1280	INSTALL OUTLETS, SWITCHES AND I	3	04-Sep-24	06-Sep-24
211	PHSI-1290	INSTALL SPEAKERS/DATA	3	04-Sep-24	06-Sep-24
212	PHSI-1300	REINSTALL IONIZERS FROM DISTRI(	1	09-Sep-24	09-Sep-24
213	PHSI-1320	ENERGIZE BUILDING	0	10-Sep-24	
214	PHSI-1330	HVAC STARTUP, TEST AND BALANCE	2	10-Sep-24	11-Sep-24
215	PHSI-1360	INSTALL FLOORING PER PLAN	4	12-Sep-24	17-Sep-24
216	**BLDG D COMMISSION & PUNCH**		9	18-Sep-24	30-Sep-24
217	PHSI-1370	PUNCH WALK	1	18-Sep-24	18-Sep-24
218	PHSI-1380	PUNCH LIST CORRECTIONS	5	19-Sep-24	25-Sep-24
219	PHSI-1390	PROFESSIONAL CLEANING	1	26-Sep-24	26-Sep-24
220	PHSI-1400	OWNER ACCEPTANCE	1	27-Sep-24	27-Sep-24
221	PHSI-1410	REMOVE TEMP FENCE	1	30-Sep-24	30-Sep-24
222	**BLDG G**		26	01-Jul-24	06-Aug-24
223	**BLDG G ABATEMENT**		8	01-Jul-24	11-Jul-24
224	PHSI-2000	SETUP CONTAINMENT AREA	1	01-Jul-24	01-Jul-24
225	PHSI-2010	REMOVE PORTION OF HARD LID CE	2	02-Jul-24	03-Jul-24
226	PHSI-2020	REMOVE (E) HEATER IN CORNER OI	1	05-Jul-24	05-Jul-24
227	PHSI-2030	CUT OPENINGS IN ROOF FOR NEW	1	08-Jul-24	08-Jul-24
228	PHSI-2040	ASBESTOS AIR TEST	1	09-Jul-24	09-Jul-24
229	PHSI-2050	WAITING ON RESULTS FROM ASBES	2	10-Jul-24	11-Jul-24
230	**BLDG G NEW CONSTRUCTION**		10	12-Jul-24	25-Jul-24
231	PHSI-2060	INSTALL HVAC LINE SET FOR INTER	1	12-Jul-24	12-Jul-24
232	PHSI-2070	INSTALL ELECTRICAL CONDUIT AND	2	15-Jul-24	16-Jul-24
233	PHSI-2100	INSTALL CD LINE IN ATTIC SPACE	1	15-Jul-24	15-Jul-24
234	PHSI-2080	INSTALL NEW FA WIRE AND GEAR	1	17-Jul-24	17-Jul-24
235	PHSI-2090	PATCH BACK OPENING TO MATCH (E	3	18-Jul-24	22-Jul-24
236	PHSI-2110	PAINT INTERIOR CEILING	2	23-Jul-24	24-Jul-24
237	PHSI-2120	INSTALL HVAC MINI-SPLIT CARTRID(	1	25-Jul-24	25-Jul-24
238	**BLDG G COMMISSION & PUNCH**		8	26-Jul-24	06-Aug-24



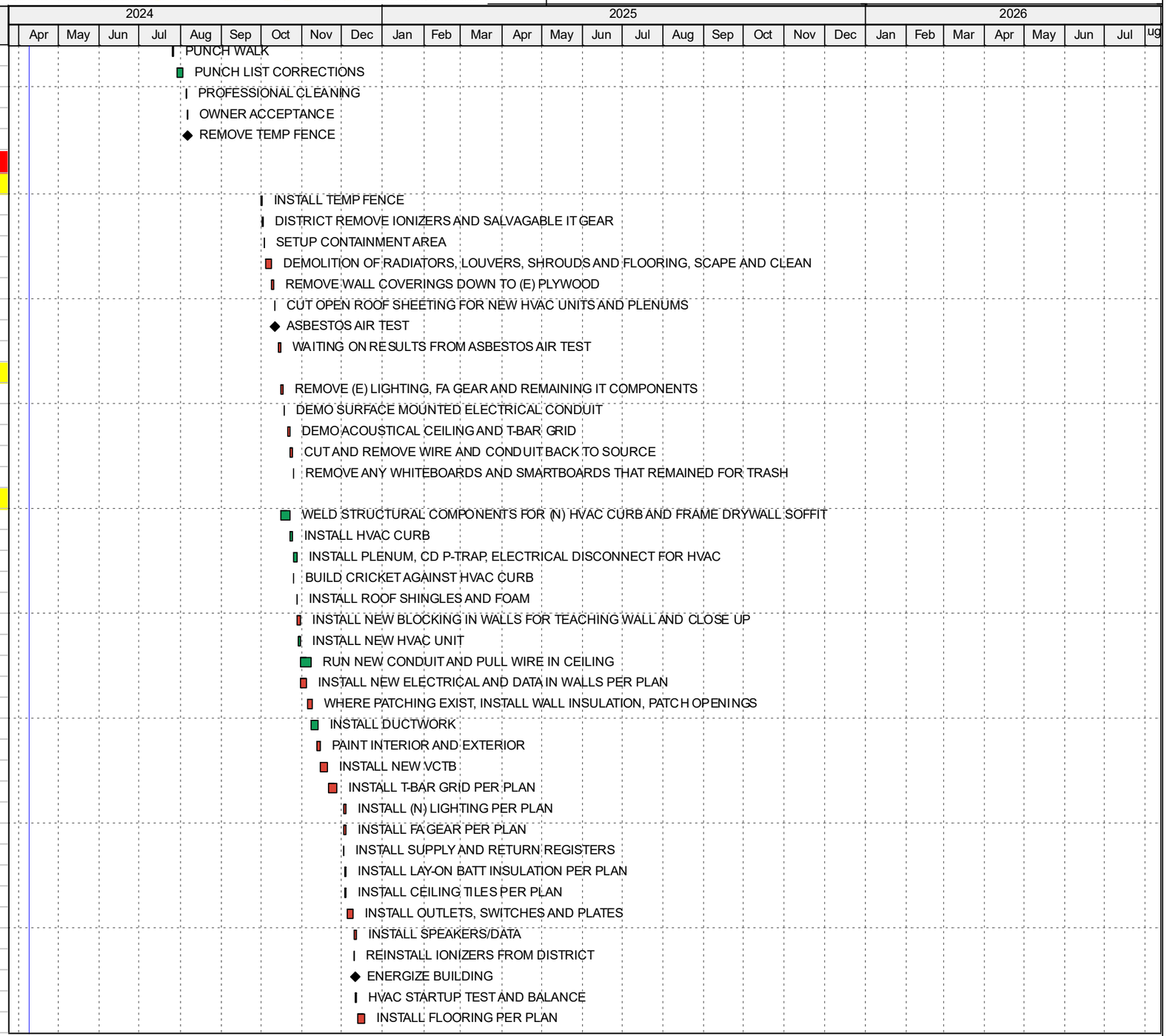
Remaining Level of Effort | Second Baseline | Remaining Work
Actual Level of Effort | Actual Work | Critical Remaining Work

Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
239	PHSI-2130	PUNCH WALK	1	26-Jul-24	26-Jul-24
240	PHSI-2140	PUNCH LIST CORRECTIONS	5	29-Jul-24	02-Aug-24
241	PHSI-2150	PROFESSIONAL CLEANING	1	05-Aug-24	05-Aug-24
242	PHSI-2160	OWNER ACCEPTANCE	1	06-Aug-24	06-Aug-24
243	PHSI-2170	REMOVE TEMP FENCE	0		06-Aug-24
244	**PHASE II (BLDG E)**		63	01-Oct-24	02-Jan-25
245	**BLDG E ABATEMENT**		11	01-Oct-24	15-Oct-24
246	PHSII-1000	INSTALL TEMP FENCE	1	01-Oct-24	01-Oct-24
247	PHSII-1010	DISTRICT REMOVE IONIZERS AND S	1	02-Oct-24	02-Oct-24
248	PHSII-1020	SETUP CONTAINMENT AREA	1	03-Oct-24	03-Oct-24
249	PHSII-1030	DEMOLITION OF RADIATORS, LOUVE	3	04-Oct-24	08-Oct-24
250	PHSII-1040	REMOVE WALL COVERINGS DOWN	2	09-Oct-24	10-Oct-24
251	PHSII-1050	CUT OPEN ROOF SHEETING FOR NE	1	11-Oct-24	11-Oct-24
252	PHSII-1060	ASBESTOS AIR TEST	0		11-Oct-24
253	PHSII-1070	WAITING ON RESULTS FROM ASBES	2	14-Oct-24	15-Oct-24
254	**BLDG E DEMO**		8	16-Oct-24	25-Oct-24
255	PHSII-1080	REMOVE (E) LIGHTING, FA GEAR ANI	2	16-Oct-24	17-Oct-24
256	PHSII-1090	DEMO SURFACE MOUNTED ELECTR	1	18-Oct-24	18-Oct-24
257	PHSII-1100	DEMO ACOUSTICAL CEILING AND T-	2	21-Oct-24	22-Oct-24
258	PHSII-1110	CUT AND REMOVE WIRE AND COND	2	23-Oct-24	24-Oct-24
259	PHSII-1120	REMOVE ANY WHITEBOARDS AND S	1	25-Oct-24	25-Oct-24
260	**BLDG E NEW CONSTRUCTION**		43	16-Oct-24	18-Dec-24
261	PHSII-1130	WELD STRUCTURAL COMPONENTS	5	16-Oct-24	22-Oct-24
262	PHSII-1140	INSTALL HVAC CURB	2	23-Oct-24	24-Oct-24
263	PHSII-1150	INSTALL PLENUM, CD P-TRAP, ELEC	2	25-Oct-24	28-Oct-24
264	PHSII-1160	BUILD CRICKET AGAINST HVAC CUF	1	25-Oct-24	25-Oct-24
265	PHSII-1180	INSTALL ROOF SHINGLES AND FOAM	1	28-Oct-24	28-Oct-24
266	PHSII-1190	INSTALL NEW BLOCKING IN WALLS I	3	28-Oct-24	30-Oct-24
267	PHSII-1170	INSTALL NEW HVAC UNIT	2	29-Oct-24	30-Oct-24
268	PHSII-1200	RUN NEW CONDUIT AND PULL WIRI	6	31-Oct-24	07-Nov-24
269	PHSII-1220	INSTALL NEW ELECTRICAL AND DAT	3	31-Oct-24	04-Nov-24
270	PHSII-1230	WHERE PATCHING EXIST, INSTALL V	4	05-Nov-24	08-Nov-24
271	PHSII-1210	INSTALL DUCTWORK	3	08-Nov-24	13-Nov-24
272	PHSII-1240	PAINT INTERIOR AND EXTERIOR	3	12-Nov-24	14-Nov-24
273	PHSII-1250	INSTALL NEW VCTB	4	15-Nov-24	20-Nov-24
274	PHSII-1260	INSTALL T-BAR GRID PER PLAN	5	21-Nov-24	27-Nov-24
275	PHSII-1270	INSTALL (N) LIGHTING PER PLAN	3	02-Dec-24	04-Dec-24
276	PHSII-1280	INSTALL FA GEAR PER PLAN	3	02-Dec-24	04-Dec-24
277	PHSII-1320	INSTALL SUPPLY AND RETURN REG	1	02-Dec-24	02-Dec-24
278	PHSII-1350	INSTALL LAY-ON BATT INSULATION P	2	03-Dec-24	04-Dec-24
279	PHSII-1360	INSTALL CEILING TILES PER PLAN	2	03-Dec-24	04-Dec-24
280	PHSII-1290	INSTALL OUTLETS, SWITCHES AND I	3	05-Dec-24	09-Dec-24
281	PHSII-1300	INSTALL SPEAKERS/DATA	3	10-Dec-24	12-Dec-24
282	PHSII-1310	REINSTALL IONIZERS FROM DISTRI(	1	10-Dec-24	10-Dec-24
283	PHSII-1330	ENERGIZE BUILDING	0	11-Dec-24	
284	PHSII-1340	HVAC STARTUP TEST AND BALANCE	2	11-Dec-24	12-Dec-24
285	PHSII-1370	INSTALL FLOORING PER PLAN	4	13-Dec-24	18-Dec-24



Remaining Level of Effort
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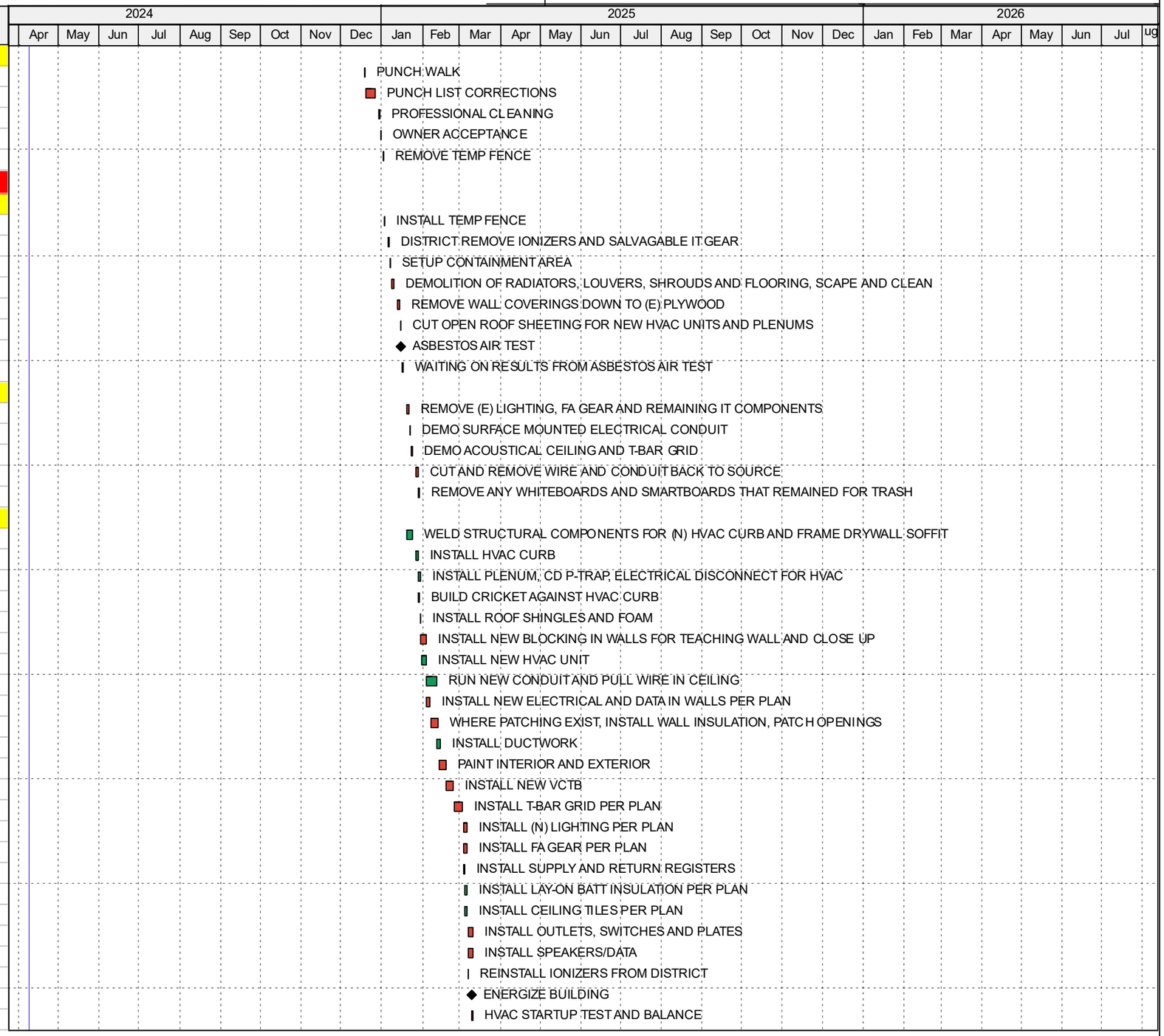
Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
286	**BLDG E COMMISSION & PUNCH**		9	19-Dec-24	02-Jan-25
287	PHSII-1380	PUNCH WALK	1	19-Dec-24	19-Dec-24
288	PHSII-1390	PUNCH LIST CORRECTIONS	5	20-Dec-24	27-Dec-24
289	PHSII-1400	PROFESSIONAL CLEANING	1	30-Dec-24	30-Dec-24
290	PHSII-1410	OWNER ACCEPTANCE	1	31-Dec-24	31-Dec-24
291	PHSII-1420	REMOVE TEMP FENCE	1	02-Jan-25	02-Jan-25
292	**PHASE III (BLDG A)**		60	03-Jan-25	28-Mar-25
293	**BLDG A ABATEMENT**		11	03-Jan-25	17-Jan-25
294	PHSIII-1000	INSTALL TEMP FENCE	1	03-Jan-25	03-Jan-25
295	PHSIII-1010	DISTRICT REMOVE IONIZERS AND S	1	06-Jan-25	06-Jan-25
296	PHSIII-1020	SETUP CONTAINMENT AREA	1	07-Jan-25	07-Jan-25
297	PHSIII-1030	DEMOLITION OF RADIATORS, LOUVE	3	08-Jan-25	10-Jan-25
298	PHSIII-1040	REMOVE WALL COVERINGS DOWN	2	13-Jan-25	14-Jan-25
299	PHSIII-1050	CUT OPEN ROOF SHEETING FOR NE	1	15-Jan-25	15-Jan-25
300	PHSIII-1060	ASBESTOS AIR TEST	0		15-Jan-25
301	PHSIII-1070	WAITING ON RESULTS FROM ASBES	2	16-Jan-25	17-Jan-25
302	**BLDG A DEMO**		8	20-Jan-25	29-Jan-25
303	PHSIII-1080	REMOVE (E) LIGHTING, FA GEAR ANI	2	20-Jan-25	21-Jan-25
304	PHSIII-1090	DEMO SURFACE MOUNTED ELECTR	1	22-Jan-25	22-Jan-25
305	PHSIII-1100	DEMO ACOUSTICAL CEILING AND T-	2	23-Jan-25	24-Jan-25
306	PHSIII-1110	CUT AND REMOVE WIRE AND COND	2	27-Jan-25	28-Jan-25
307	PHSIII-1120	REMOVE ANY WHITEBOARDS AND S	1	29-Jan-25	29-Jan-25
308	**BLDG A NEW CONSTRUCTION**		40	20-Jan-25	17-Mar-25
309	PHSIII-1130	WELD STRUCTURAL COMPONENTS	5	20-Jan-25	24-Jan-25
310	PHSIII-1140	INSTALL HVAC CURB	2	27-Jan-25	28-Jan-25
311	PHSIII-1150	INSTALL PLENUM, CD P-TRAP, ELEC	2	29-Jan-25	30-Jan-25
312	PHSIII-1160	BUILD CRICKET AGAINST HVAC CUF	1	29-Jan-25	29-Jan-25
313	PHSIII-1180	INSTALL ROOF SHINGLES AND FOAM	1	30-Jan-25	30-Jan-25
314	PHSIII-1190	INSTALL NEW BLOCKING IN WALLS I	3	30-Jan-25	03-Feb-25
315	PHSIII-1170	INSTALL NEW HVAC UNIT	2	31-Jan-25	03-Feb-25
316	PHSIII-1200	RUN NEW CONDUIT AND PULL WIRI	6	04-Feb-25	11-Feb-25
317	PHSIII-1220	INSTALL NEW ELECTRICAL AND DAT	3	04-Feb-25	06-Feb-25
318	PHSIII-1230	WHERE PATCHING EXIST, INSTALL V	4	07-Feb-25	12-Feb-25
319	PHSIII-1210	INSTALL DUCTWORK	3	12-Feb-25	14-Feb-25
320	PHSIII-1240	PAINT INTERIOR AND EXTERIOR	3	13-Feb-25	18-Feb-25
321	PHSIII-1250	INSTALL NEW VCTB	4	19-Feb-25	24-Feb-25
322	PHSIII-1260	INSTALL T-BAR GRID PER PLAN	5	25-Feb-25	03-Mar-25
323	PHSIII-1270	INSTALL (N) LIGHTING PER PLAN	3	04-Mar-25	06-Mar-25
324	PHSIII-1280	INSTALL FA GEAR PER PLAN	3	04-Mar-25	06-Mar-25
325	PHSIII-1320	INSTALL SUPPLY AND RETURN REG	1	04-Mar-25	04-Mar-25
326	PHSIII-1350	INSTALL LAY-ON BATT INSULATION P	2	05-Mar-25	06-Mar-25
327	PHSIII-1360	INSTALL CEILING TILES PER PLAN	2	05-Mar-25	06-Mar-25
328	PHSIII-1290	INSTALL OUTLETS, SWITCHES AND I	3	07-Mar-25	11-Mar-25
329	PHSIII-1300	INSTALL SPEAKERS/DATA	3	07-Mar-25	11-Mar-25
330	PHSIII-1310	REINSTALL IONIZERS FROM DISTRI(	1	07-Mar-25	07-Mar-25
331	PHSIII-1330	ENERGIZE BUILDING	0	10-Mar-25	
332	PHSIII-1340	HVAC STARTUP TEST AND BALANCE	2	10-Mar-25	11-Mar-25



Remaining Level of Effort | Second Baseline | Remaining Work
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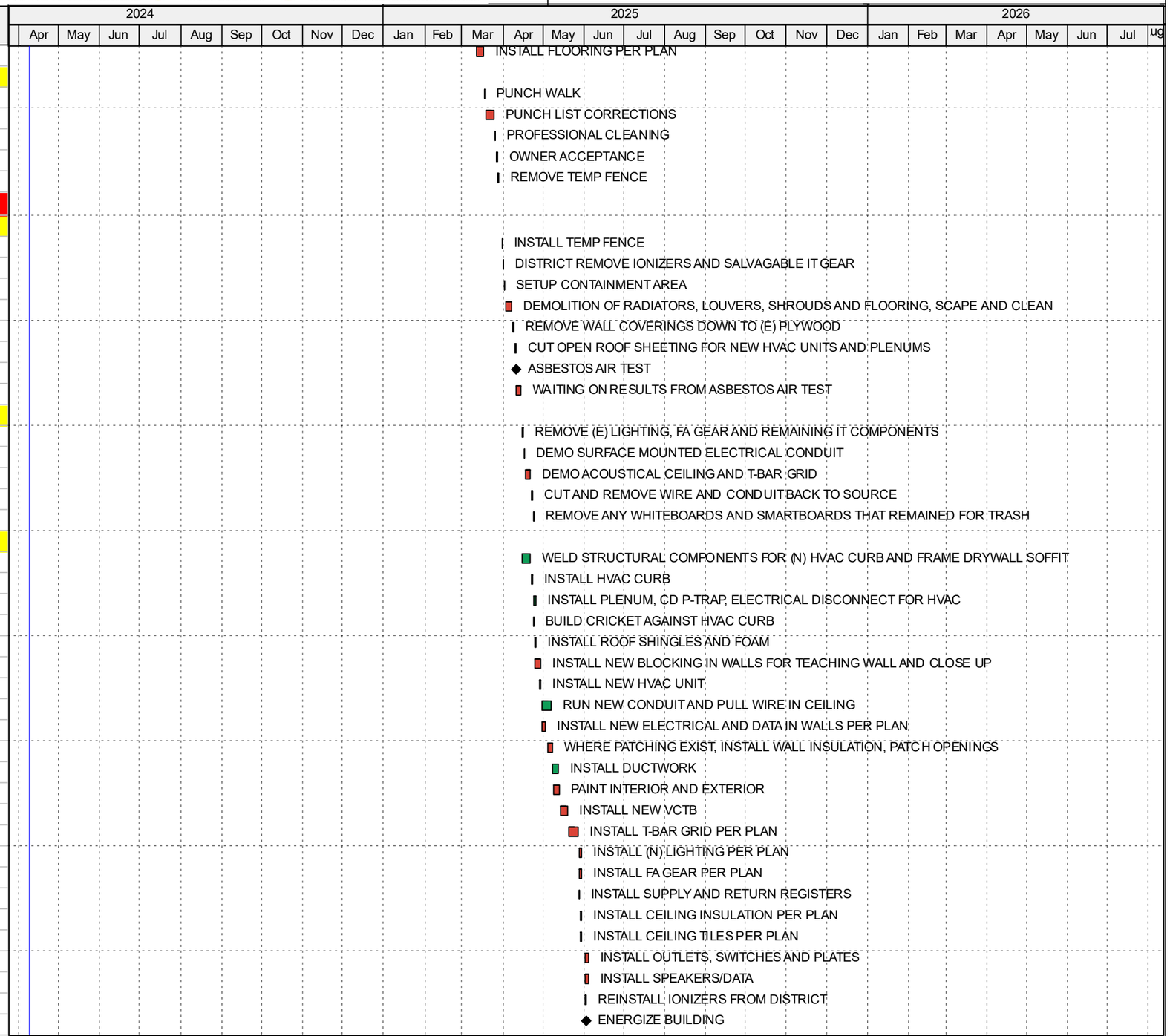
PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
333	PHSIII-1370	INSTALL FLOORING PER PLAN	4	12-Mar-25	17-Mar-25
334	**BLDG A COMMISSION & PUNCH**		9	18-Mar-25	28-Mar-25
335	PHSIII-1380	PUNCH WALK	1	18-Mar-25	18-Mar-25
336	PHSIII-1390	PUNCH LIST CORRECTIONS	5	19-Mar-25	25-Mar-25
337	PHSIII-1400	PROFESSIONAL CLEANING	1	26-Mar-25	26-Mar-25
338	PHSIII-1410	OWNER ACCEPTANCE	1	27-Mar-25	27-Mar-25
339	PHSIII-1420	REMOVE TEMP FENCE	1	28-Mar-25	28-Mar-25
340	**PHASE IV (BLDG B)**		60	31-Mar-25	23-Jun-25
341	**BLDG B ABATEMENT**		11	31-Mar-25	14-Apr-25
342	PHSIV-1000	INSTALL TEMP FENCE	1	31-Mar-25	31-Mar-25
343	PHSIV-1010	DISTRICT REMOVE IONIZERS AND S	1	01-Apr-25	01-Apr-25
344	PHSIV-1020	SETUP CONTAINMENT AREA	1	02-Apr-25	02-Apr-25
345	PHSIV-1030	DEMOLITION OF RADIATORS, LOUVE	3	03-Apr-25	07-Apr-25
346	PHSIV-1040	REMOVE WALL COVERINGS DOWN	2	08-Apr-25	09-Apr-25
347	PHSIV-1050	CUT OPEN ROOF SHEETING FOR NE	1	10-Apr-25	10-Apr-25
348	PHSIV-1060	ASBESTOS AIR TEST	0		10-Apr-25
349	PHSIV-1070	WAITING ON RESULTS FROM ASBES	2	11-Apr-25	14-Apr-25
350	**BLDG B DEMO**		8	15-Apr-25	24-Apr-25
351	PHSIV-1080	REMOVE (E) LIGHTING, FA GEAR ANI	2	15-Apr-25	16-Apr-25
352	PHSIV-1090	DEMO SURFACE MOUNTED ELECTR	1	17-Apr-25	17-Apr-25
353	PHSIV-1100	DEMO ACOUSTICAL CEILING AND T-	2	18-Apr-25	21-Apr-25
354	PHSIV-1110	CUT AND REMOVE WIRE AND COND	2	22-Apr-25	23-Apr-25
355	PHSIV-1120	REMOVE ANY WHITEBOARDS AND S	1	24-Apr-25	24-Apr-25
356	**BLDG B NEW CONSTRUCTION**		40	15-Apr-25	10-Jun-25
357	PHSIV-1130	WELD STRUCTURAL COMPONENTS	5	15-Apr-25	21-Apr-25
358	PHSIV-1140	INSTALL HVAC CURB	2	22-Apr-25	23-Apr-25
359	PHSIV-1150	INSTALL PLENUM, CD P-TRAP, ELEC	2	24-Apr-25	25-Apr-25
360	PHSIV-1160	BUILD CRICKET AGAINST HVAC CUF	1	24-Apr-25	24-Apr-25
361	PHSIV-1180	INSTALL ROOF SHINGLES AND FOAM	1	25-Apr-25	25-Apr-25
362	PHSIV-1190	INSTALL NEW BLOCKING IN WALLS I	3	25-Apr-25	29-Apr-25
363	PHSIV-1170	INSTALL NEW HVAC UNIT	2	28-Apr-25	29-Apr-25
364	PHSIV-1200	RUN NEW CONDUIT AND PULL WIRI	6	30-Apr-25	07-May-25
365	PHSIV-1220	INSTALL NEW ELECTRICAL AND DAT	3	30-Apr-25	02-May-25
366	PHSIV-1230	WHERE PATCHING EXIST, INSTALL V	4	05-May-25	08-May-25
367	PHSIV-1210	INSTALL DUCTWORK	3	08-May-25	12-May-25
368	PHSIV-1240	PAINT INTERIOR AND EXTERIOR	3	09-May-25	13-May-25
369	PHSIV-1250	INSTALL NEW VCTB	4	14-May-25	19-May-25
370	PHSIV-1260	INSTALL T-BAR GRID PER PLAN	5	20-May-25	27-May-25
371	PHSIV-1270	INSTALL (N) LIGHTING PER PLAN	3	28-May-25	30-May-25
372	PHSIV-1280	INSTALL FA GEAR PER PLAN	3	28-May-25	30-May-25
373	PHSIV-1320	INSTALL SUPPLY AND RETURN REG	1	28-May-25	28-May-25
374	PHSIV-1350	INSTALL CEILING INSULATION PER I	2	29-May-25	30-May-25
375	PHSIV-1360	INSTALL CEILING TILES PER PLAN	2	29-May-25	30-May-25
376	PHSIV-1290	INSTALL OUTLETS, SWITCHES AND I	3	02-Jun-25	04-Jun-25
377	PHSIV-1300	INSTALL SPEAKERS/DATA	3	02-Jun-25	04-Jun-25
378	PHSIV-1310	REINSTALL IONIZERS FROM DISTRI(	1	02-Jun-25	02-Jun-25
379	PHSIV-1330	ENERGIZE BUILDING	0	03-Jun-25	



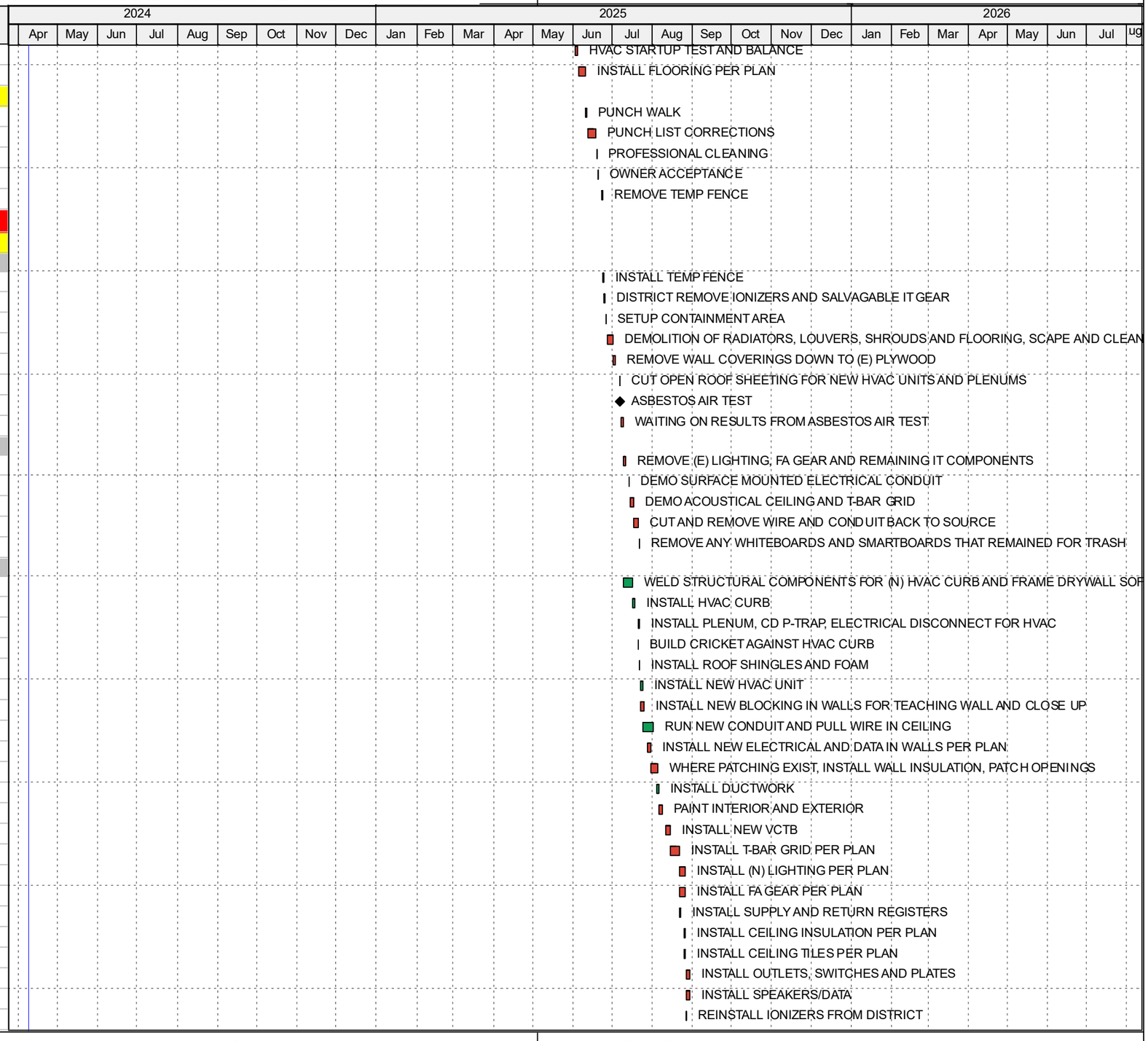
Remaining Level of Effort | Second Baseline | Remaining Work
Actual Level of Effort | Actual Work | Critical Remaining Work

Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
380	PHSIV-1340	HVAC STARTUP TEST AND BALANCE	2	03-Jun-25	04-Jun-25
381	PHSIV-1370	INSTALL FLOORING PER PLAN	4	05-Jun-25	10-Jun-25
382	**BLDG B COMMISSION & PUNCH**		9	11-Jun-25	23-Jun-25
383	PHSIV-1380	PUNCH WALK	1	11-Jun-25	11-Jun-25
384	PHSIV-1390	PUNCH LIST CORRECTIONS	5	12-Jun-25	18-Jun-25
385	PHSIV-1400	PROFESSIONAL CLEANING	1	19-Jun-25	19-Jun-25
386	PHSIV-1410	OWNER ACCEPTANCE	1	20-Jun-25	20-Jun-25
387	PHSIV-1420	REMOVE TEMP FENCE	1	23-Jun-25	23-Jun-25
388	**PHASE V BLDG C & MPR**		62	24-Jun-25	19-Sep-25
389	**BLDG C - KINDERGARTEN**		62	24-Jun-25	19-Sep-25
390	**BLDG C ABATEMENT**		11	24-Jun-25	09-Jul-25
391	PHSV-1000	INSTALL TEMP FENCE	1	24-Jun-25	24-Jun-25
392	PHSV-1010	DISTRICT REMOVE IONIZERS AND S	1	25-Jun-25	25-Jun-25
393	PHSV-1020	SETUP CONTAINMENT AREA	1	26-Jun-25	26-Jun-25
394	PHSV-1030	DEMOLITION OF RADIATORS, LOUVE	3	27-Jun-25	01-Jul-25
395	PHSV-1040	REMOVE WALL COVERINGS DOWN	2	02-Jul-25	03-Jul-25
396	PHSV-1050	CUT OPEN ROOF SHEETING FOR NE	1	07-Jul-25	07-Jul-25
397	PHSV-1060	ASBESTOS AIR TEST	0		07-Jul-25
398	PHSV-1070	WAITING ON RESULTS FROM ASBES	2	08-Jul-25	09-Jul-25
399	**BLDG C DEMO**		9	10-Jul-25	22-Jul-25
400	PHSV-1080	REMOVE (E) LIGHTING, FA GEAR ANI	2	10-Jul-25	11-Jul-25
401	PHSV-1090	DEMO SURFACE MOUNTED ELECTR	1	14-Jul-25	14-Jul-25
402	PHSV-1100	DEMO ACOUSTICAL CEILING AND T-	3	15-Jul-25	17-Jul-25
403	PHSV-1110	CUT AND REMOVE WIRE AND COND	2	18-Jul-25	21-Jul-25
404	PHSV-1120	REMOVE ANY WHITEBOARDS AND S	1	22-Jul-25	22-Jul-25
405	**BLDG C NEW CONSTRUCTION**		42	10-Jul-25	08-Sep-25
406	PHSV-1130	WELD STRUCTURAL COMPONENTS	5	10-Jul-25	16-Jul-25
407	PHSV-1140	INSTALL HVAC CURB	2	17-Jul-25	18-Jul-25
408	PHSV-1150	INSTALL PLENUM, CD P-TRAP, ELEC	2	21-Jul-25	22-Jul-25
409	PHSV-1160	BUILD CRICKET AGAINST HVAC CUF	1	21-Jul-25	21-Jul-25
410	PHSV-1180	INSTALL ROOF SHINGLES AND FOAM	1	22-Jul-25	22-Jul-25
411	PHSV-1170	INSTALL NEW HVAC UNIT	2	23-Jul-25	24-Jul-25
412	PHSV-1190	INSTALL NEW BLOCKING IN WALLS I	3	23-Jul-25	25-Jul-25
413	PHSV-1200	RUN NEW CONDUIT AND PULL WIRI	6	25-Jul-25	01-Aug-25
414	PHSV-1220	INSTALL NEW ELECTRICAL AND DAT	3	28-Jul-25	30-Jul-25
415	PHSV-1230	WHERE PATCHING EXIST, INSTALL V	4	31-Jul-25	05-Aug-25
416	PHSV-1210	INSTALL DUCTWORK	3	04-Aug-25	06-Aug-25
417	PHSV-1240	PAINT INTERIOR AND EXTERIOR	3	06-Aug-25	08-Aug-25
418	PHSV-1250	INSTALL NEW VCTB	4	11-Aug-25	14-Aug-25
419	PHSV-1260	INSTALL T-BAR GRID PER PLAN	5	15-Aug-25	21-Aug-25
420	PHSV-1270	INSTALL (N) LIGHTING PER PLAN	3	22-Aug-25	26-Aug-25
421	PHSV-1280	INSTALL FA GEAR PER PLAN	3	22-Aug-25	26-Aug-25
422	PHSV-1320	INSTALL SUPPLY AND RETURN REG	1	22-Aug-25	22-Aug-25
423	PHSV-1350	INSTALL CEILING INSULATION PER I	2	25-Aug-25	26-Aug-25
424	PHSV-1360	INSTALL CEILING TILES PER PLAN	2	25-Aug-25	26-Aug-25
425	PHSV-1290	INSTALL OUTLETS, SWITCHES AND I	3	27-Aug-25	29-Aug-25
426	PHSV-1300	INSTALL SPEAKERS/DATA	3	27-Aug-25	29-Aug-25
427	PHSV-1310	REINSTALL IONIZERS FROM DISTRI(	1	27-Aug-25	27-Aug-25



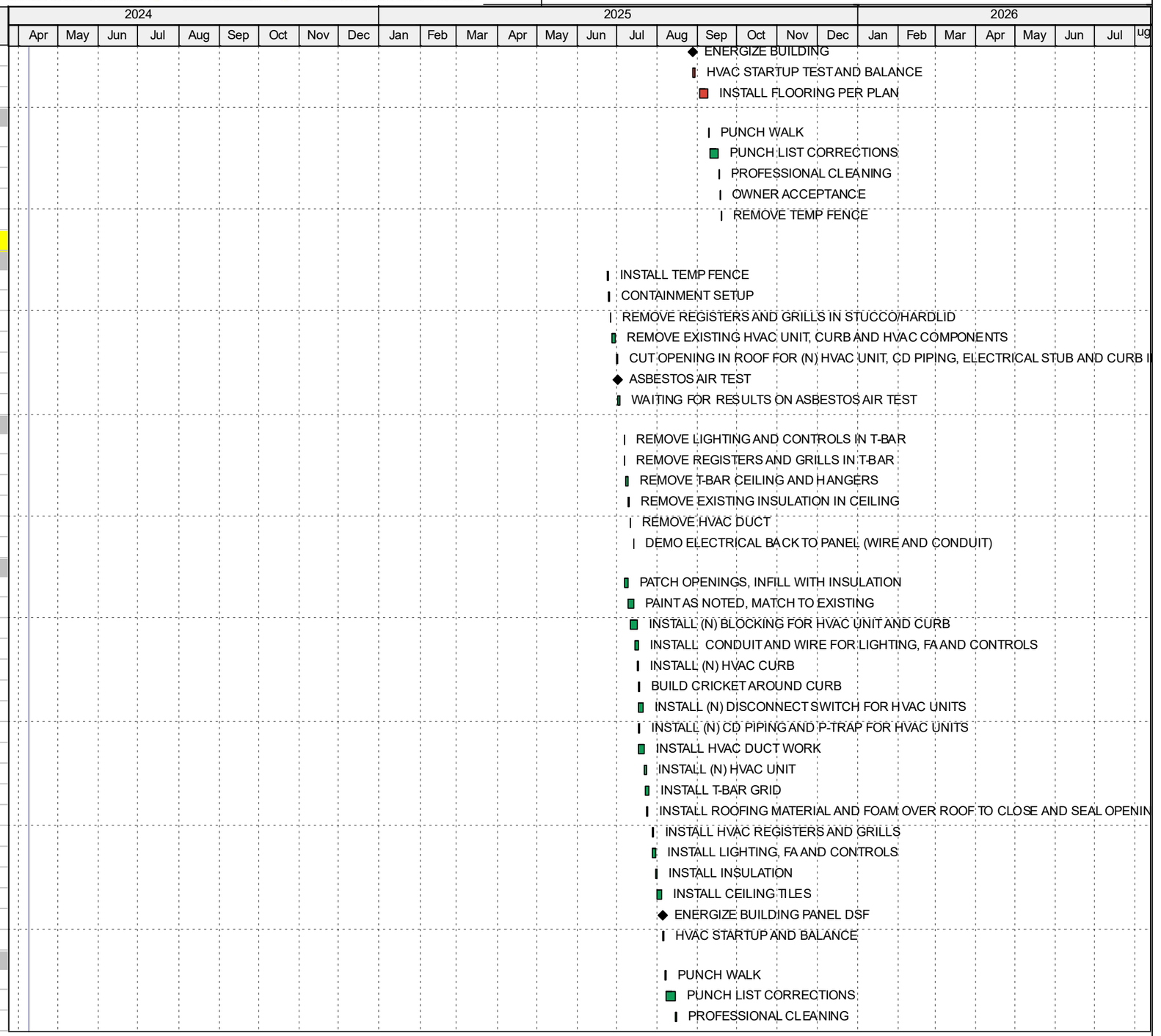
Remaining Level of Effort | Second Baseline | Remaining Work
Actual Level of Effort | Actual Work | Critical Remaining Work

Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.
GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
428	PHSV-1330	ENERGIZE BUILDING	0	28-Aug-25	
429	PHSV-1340	HVAC STARTUP TEST AND BALANCE	2	28-Aug-25	29-Aug-25
430	PHSV-1370	INSTALL FLOORING PER PLAN	5	02-Sep-25	08-Sep-25
431	**BLDG C COMMISSION & PUNCH**		9	09-Sep-25	19-Sep-25
432	PHSV-1380	PUNCH WALK	1	09-Sep-25	09-Sep-25
433	PHSV-1390	PUNCH LIST CORRECTIONS	5	10-Sep-25	16-Sep-25
434	PHSV-1400	PROFESSIONAL CLEANING	1	17-Sep-25	17-Sep-25
435	PHSV-1410	OWNER ACCEPTANCE	1	18-Sep-25	18-Sep-25
436	PHSV-1420	REMOVE TEMP FENCE	1	19-Sep-25	19-Sep-25
437	**MPR**		40	24-Jun-25	19-Aug-25
438	**MPR ABATEMENT**		8	24-Jun-25	03-Jul-25
439	PHSV-2000	INSTALL TEMP FENCE	1	24-Jun-25	24-Jun-25
440	PHSV-2010	CONTAINMENT SETUP	1	25-Jun-25	25-Jun-25
441	PHSV-2020	REMOVE REGISTERS AND GRILLS IN	1	26-Jun-25	26-Jun-25
442	PHSV-2030	REMOVE EXISTING HVAC UNIT, CUR	2	27-Jun-25	30-Jun-25
443	PHSV-2040	CUT OPENING IN ROOF FOR (N) HVA	1	01-Jul-25	01-Jul-25
444	PHSV-2050	ASBESTOS AIR TEST	0		01-Jul-25
445	PHSV-2060	WAITING FOR RESULTS ON ASBEST	2	02-Jul-25	03-Jul-25
446	**MPR DEMO**		6	07-Jul-25	14-Jul-25
447	PHSV-2070	REMOVE LIGHTING AND CONTROLS	1	07-Jul-25	07-Jul-25
448	PHSV-2080	REMOVE REGISTERS AND GRILLS IN	1	07-Jul-25	07-Jul-25
449	PHSV-2090	REMOVE T-BAR CEILING AND HANG	2	08-Jul-25	09-Jul-25
450	PHSV-2100	REMOVE EXISTING INSULATION IN C	1	10-Jul-25	10-Jul-25
451	PHSV-2110	REMOVE HVAC DUCT	1	11-Jul-25	11-Jul-25
452	PHSV-2120	DEMO ELECTRICAL BACK TO PANEL	1	14-Jul-25	14-Jul-25
453	**MPR NEW CONSTRUCTION**		23	07-Jul-25	06-Aug-25
454	PHSV-2220	PATCH OPENINGS, INFILL WITH INSU	3	07-Jul-25	09-Jul-25
455	PHSV-2230	PAINT AS NOTED, MATCH TO EXISTIN	3	10-Jul-25	14-Jul-25
456	PHSV-2130	INSTALL (N) BLOCKING FOR HVAC U	4	11-Jul-25	16-Jul-25
457	PHSV-2200	INSTALL CONDUIT AND WIRE FOR L	3	15-Jul-25	17-Jul-25
458	PHSV-2140	INSTALL (N) HVAC CURB	1	17-Jul-25	17-Jul-25
459	PHSV-2150	BUILD CRICKET AROUND CURB	1	18-Jul-25	18-Jul-25
460	PHSV-2160	INSTALL (N) DISCONNECT SWITCH F	2	18-Jul-25	21-Jul-25
461	PHSV-2170	INSTALL (N) CD PIPING AND P-TRAP	1	18-Jul-25	18-Jul-25
462	PHSV-2210	INSTALL HVAC DUCT WORK	3	18-Jul-25	22-Jul-25
463	PHSV-2180	INSTALL (N) HVAC UNIT	2	22-Jul-25	23-Jul-25
464	PHSV-2240	INSTALL T-BAR GRID	3	23-Jul-25	25-Jul-25
465	PHSV-2190	INSTALL ROOFING MATERIAL AND FO	1	24-Jul-25	24-Jul-25
466	PHSV-2250	INSTALL HVAC REGISTERS AND GRI	2	28-Jul-25	29-Jul-25
467	PHSV-2260	INSTALL LIGHTING, FA AND CONTRC	3	28-Jul-25	30-Jul-25
468	PHSV-2270	INSTALL INSULATION	1	31-Jul-25	31-Jul-25
469	PHSV-2280	INSTALL CEILING TILES	2	01-Aug-25	04-Aug-25
470	PHSV-2300	ENERGIZE BUILDING PANEL DSF	0	05-Aug-25	
471	PHSV-2290	HVAC STARTUP AND BALANCE	2	05-Aug-25	06-Aug-25
472	**MPR COMMISSION & PUNCH**		9	07-Aug-25	19-Aug-25
473	PHSV-2310	PUNCH WALK	1	07-Aug-25	07-Aug-25
474	PHSV-2320	PUNCH LIST CORRECTIONS	5	08-Aug-25	14-Aug-25
475	PHSV-2330	PROFESSIONAL CLEANING	1	15-Aug-25	15-Aug-25



Remaining Level of Effort
Actual Level of Effort
Second Baseline
Actual Work
Remaining Work
Critical Remaining Work

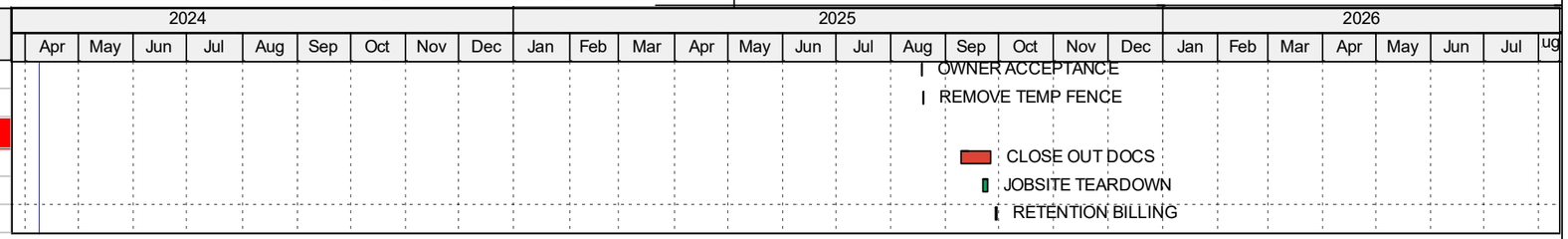
Data Date: 09-Apr-24

PRELIMINARY BASELINE - WAYSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT 5.3.24

S.C.ANDERSON,INC.

GENERAL CONTRACTING ◆ DESIGN/BUILD ◆ CONSTRUCTION MANAGEMENT

#	Activity ID	Activity Name	Original Duration	Start	Finish
476	PHSV-2340	OWNER ACCEPTANCE	1	18-Aug-25	18-Aug-25
477	PHSV-2350	REMOVE TEMP FENCE	1	19-Aug-25	19-Aug-25
478	**PROJECT CLOSE OUT**		15	09-Sep-25	29-Sep-25
479	CO-1000	CLOSE OUT DOCS	14	09-Sep-25	26-Sep-25
480	CO-1010	JOBSITE TEARDOWN	3	22-Sep-25	24-Sep-25
481	CO-1020	RETENTION BILLING	1	29-Sep-25	29-Sep-25



Remaining Level of Effort
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Second Baseline
Actual Work
Remaining Work
Critical Remaining Work

Data Date: 09-Apr-24

Bid Package 00 - Standard Project Requirements

PROJECT: **Wayside Elementary School HVAC Replacement**
1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

This Standard Project Requirement Bid Package shall be applicable to **ALL** Construction Bid Packages provided by S.C. Anderson, Inc. for this project. Contractors shall review all sections below and include any costs to comply in their base Bid.

This Bid Package is for the Washington Middle School HVAC Replacement as part of the Construction Manager – Multiple Prime delivery method. All Bids will be addressed and delivered to Bakersfield City School District as noted in the Instructions to Bidders in the Construction Manual. Once presented, the bids will be opened and evaluated by the District and the Construction Manager. Any contract awarded by the District, and the work thereafter, will be managed, directed, and overseen by the Construction Manager. All work shall be performed in accordance with All Contract Documents, Pre-Bid Information, Bid Documents, Addenda, Construction Agreement, General Conditions, Special Conditions, Environmental Reports, Contract, Project Schedule, Project Manual, Construction Manual, the requirements of the General Requirements/Specifications (Division 00 thru 33), and Contract Drawings (Here after referred to as "contract documents") which are hereby incorporated into this and all other Bid packages by their reference. The work under any Bid Package shall include the furnishing and installing of all material, equipment, procedures, means, methods, items and labor required to complete the work described in this Bid Package. The work shall be completed as shown on the drawings and specified in any applicable technical specification sections.

This bid scope of work consists of replacing existing unit ventilators, air handlers, and make-up air units in Buildings A, B, C, D, E, and F with modern, more efficient rooftop package units including removal of all existing outdated, central plant equipment from the chiller yard after the new equipment is approved and fully operational. Scope also includes fire alarm system upgrade at buildings previously mentioned along with new flooring, ceilings, and patch back of existing finishes due to the modernization work. Scope of

work includes abatement as specified in the Environmental Reports provided. All contractors must adhere to the following:

In order for the contractor to enter sections of the building included in this scope of work in which has asbestos-containing materials in them, they shall have, at a minimum the 2-Hour Asbestos Awareness Training. (this training is for those who may encounter asbestos but will not be intentionally disturbing it.

Work is scheduled to commence June 3, 2024. The work of this or any other bid package must be completed according to the construction schedule included with contract documents. The construction schedule prepared by the Construction Manager, or other target dates pertaining to any work must be adhered to by the Contractor. Procurement of materials and/or equipment shall be done in a timely manner to comply with the project schedule. No extension of time will be granted unless the circumstances are within the stipulations of the General Conditions. All bid packages are contained in the Construction Manual. These standard Project Standards are to made part of every Contractor's scope of work in addition to their applicable bid package.

In addition to the above, work for each specific Bid package shall include the furnishing of all labor, materials, processes, equipment, means and methods and related items required to complete the work as shown on the drawings and set forth in the specifications referred to herein or elsewhere in the Contact Documents.

The Scope of the Work for each Contractor awarded a contract shall include, but not necessarily be limited to, the items listed below and those listed in the specific Bid Package(s) awarded to that Contractor in accordance with the applicable drawings and specification section(s). NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

In addition to the work noted in the successful Contractor's Bid Package, each Contractor must also adhere to the following:

1. Project General Provisions noted in this manual, and all items in Division 01 (General Requirements) in the project manual shall apply to all Contractors performing any work on this project.
2. Each Contractor shall review and abide by the General Rules of Conduct located in the Construction Manual. The plan outlines requirements for fingerprinting and background checks.
3. Mandatory weekly coordination meetings will be held for all Contractors performing work on site. It is each Contractor's responsibility to attend such meetings beginning two weeks prior to start work.
4. At times conflicts within the contract documents may be discovered as the work progresses. Should such a conflict occur, it is each Contractor's responsibility to seek resolution by submitting a request for information (RFI) requesting clarification. RFI's shall be submitted in the S. C. Anderson Inc. project Procore system.
5. Working hours shall be 6:00am - 4:00pm Monday thru Friday. To perform work outside of these hours must be approved prior to commencing that work. Contractors shall man the project appropriately to meet the CPM schedule.
6. Each Contractor shall provide for the appropriate number of move ins to perform the work noted in their specific Bid package and CPM schedule.
7. Each Contractor shall provide a full time, onsite superintendent/foreman. Said superintendent must possess the ability to communicate plainly with on-site staff.
8. As it pertains to each specific Bid package, each Contractor shall provide off site removal and proper disposal of all spoils.
9. The Base Bid pricing for any Bid over $25,000 shall include the cost of 100% payment and performance bonds.
10. Each Contractor shall provide all any and all scaffolding (except as noted), shoring, trench plates, ladders, lifts, cranes or any other equipment required to perform the work required under each Bid package.

11. Provide access as required to allow inspectors, Owner, Architect, and Construction Manager to perform inspections.

12. Provide pot holing and locating of existing underground utilities if needed under each Bid package.

13. Each Contractor shall be responsible for temporary power within the buildings. Temporary power will be provided to a temporary power pole within the limits of construction. Each Contractor must supply their own method to get the power from that pole to their working condition or provide their own generator. Spider boxes or cords will not be supplied during construction. Additionally, neither the District nor Construction Manager will be responsible for any delays due to outages, overuse, or non-availability of power.

14. Each Contractor shall provide for temporary construction work lighting as needed to perform their work.

15. Each Contractor shall be responsible to take and verify field dimensions.

16. Each Contractor must provide any layout (from benchmarks and staking) necessary to complete the scope of work listed in each Bid package. Initial surveying and staking will be provided by the Construction Manager. However, should any re-staking be required as a result of a Contractor destroying, removing or otherwise disrupting the credibility of the staking, the cost for such re-staking will be the responsibility of the Contractor.

17. Each Contractor shall provide a dimensioned layout for all backing, penetrations, and openings required to install any of the work noted in an awarded Bid package. Should a Contractor fail to provide this layout, the responsibility to install any missed backing shall be the responsibility of that Contractor with no additional compensation This includes any and all cutting/patching, moving of piping, conduits or any other installed item that may be required to install any missed backing due to the failure to supply the layout.

18. As applicable to each Bid Package, each Contractor shall provide all excavation, shading, bedding, backfill and compaction as noted in the contract documents, for any work provided under this their package.

19. Provide dewatering and mucking out as associated with the performance of the work (as applicable) to each Bid Package.

20. As applicable to each Bid Package, each Contractor shall, with the involvement of the Construction Manager overlay their scope of rough in with the others for coordination to avoid conflicts in the field.

21. Each Contractor shall route all conduits, piping, ducting etc. to avoid interference with other piping, footings or other portions of the building. Drawings are diagrammatic and alternate routing, transitions and fittings may be required due to building and site constraints and adjacent utilities. Cost of utility route adjustments to be included in each Contractor's Bid.

22. Each Contractor shall provide a contained clean out area for cleaning of trucks, tools, spray guns, hoses, brushes, buckets, pumps, wheelbarrows, or any other tool, container or device use to perform work on this site. At no time will any such vehicle/device/tool be cleaned out and dumped, sprayed, splashed or shaken directly onto or into the ground. All cleaned debris and rinse water shall be removed and properly disposed of offsite.

23. Each Contactor must provide any special testing or inspections and certification as required by the work of the specific Bid package, including inspections required by any other agency or municipality.

24. Each Contractor shall provide, at a minimum, weekly clean up and off-site removal of trash, debris, unused construction materials and lunch debris generated by their crew. The costs for hauling off each Contractor's dumpsters are to be included in the price for their Bid Package. It is recommended that each contractor provide a lockable trash container for their own use. In the absence of a clean construction site, each contractor will be required to provide at least one person per week to perform clean up as Directed by the Construction Manager. Should a Contractor fail to provide the manpower noted above, the Construction Manager may seek other means to complete this clean up and that Contractor will be back-charged accordingly. To Clarify: Any clean up performed on behalf of a Contractor by Construction Manager, Owner or District, will be back charged to and deducted from their contract.

25. Each Contractor must provide final clean up and offsite disposal of any debris or unused construction material in one area before moving to another area to perform work. Such clean up and disposal shall comply with all federal, state, and local ordinances and codes. Note: Any clean up performed on behalf of this Contractor, will be back charged to and deducted from each Contractor's contract.

26. Each Contractor must provide dust control and street clean up, meeting or exceeding the local governing agency's requirements or any other applicable code or regulation (as required for this project), for all generated airborne particles and/or mud/debris that may be deemed unhealthy and/or a nuisance to the public. Any fines received as a result of any Contractor's failure to meet these codes or regulations will be the responsibility that Contractor.

27. Dust control shall be provided by the Contractor whenever earthmoving; excavation, backfilling or compacting activities are taking place. Contractor to use District Provided water.

28. All work must conform to all Federal, State, County, City or Local Codes, Regulations, Ordinances and Standards.

29. Each Contractor is responsible for compliance with all applicable public utility and municipal codes and standards.

30. All non-compliant materials shall be immediately removed from the Project Site.

31. Each Contractor shall provide certified payroll reports, for their work force and any sub tier contractor to Construction Manager on a weekly basis. Pay applications/payments will be held for failure to provide these certified reports. Please note the DIR is now requiring that Certified payroll be entered into their system. Hard copies will still need to be provided to the jobsite.

32. Each Contractor shall provide a notice of non-performance when workers are not on site. Non-performance notifications shall be provided until a notice of completion is filed with the local jurisdiction by the District.

33. Each Contractor must provide proper submittals, shop drawings, mockups, product data, samples, SDS's, as noted it the contract documents, included color samples as/if required.

34. Each Contractor must update the As-Built drawings weekly in the Project Office. Pay applications/payments may be held for failure to update drawings.

35. Each Contractor shall provide a detailed and accurate schedule of values for the work included in any awarded Bid Package. Schedule of values to include labor, material, and equipment costs and be broken down for each area. The schedule of values must be submitted for approval prior to commencement of work and/or payment.

36. Each Contractor shall comply with any and all requirements to use state approved apprentices and paying into approved apprenticeship programs.

37. Each Contractor shall have their Foreman/Superintendent attend a weekly Contractors meeting at the Construction Manager's job trailer.

38. Each Contractors shall provide daily reports at the end of each workday to Construction Manager. Failure to submit daily reports may delay progress payments.

39. Each Contractors must coordinate the work of each Bid package with the architect's approved submittals and/or shop drawings as it pertains to the work outlined in each Bid Package.

40. Each Contractor shall coordinate all work with governmental agency engineers, testing laboratory technicians, Construction Manager, Inspector of Record, private property owners and other Contractors.

41. Each Contractor is responsible for coordination of work with governmental agency engineers, testing laboratory technicians, Construction Manager, Inspector of Record, any appropriate utility companies, private property owners and all other Contractors as applicable. Coordination drawings will be required for all installations near or adjacent to new utilities and structures.

42. Each Contractor is responsible for coordination of any of their work that involves interruptions of utility services. Interruptions shall not impact the site during hours of operation. Contractor shall schedule work afterhours and/or on weekends as required to accommodate the Project Schedule. Note: service interruptions may or may not be included into the CPM schedule.

43. Each Contractor shall provide any and all bonds, insurance, traffic plans, and permits (including any encroachment permits) as required by the District, County, City, State or federal agency.

44. Each Contractor must obtain and pay for a Business Tax Certificate from the City of Bakersfield or any other city having jurisdiction as/if required.

45. Each Contractor shall schedule survey requests with the Construction Manager 48 hours' notice shall be provided for all such requests. Survey requests shall include very specific descriptions of areas to be surveyed or a marked-up plan showing the location(s).

46. Each Contractor is responsible to conduct an inspection of existing conditions prior to commencing work.

47. Each Contractor is responsible for coordinating all required inspections with the Construction Manager and Inspector of record. Written inspection requests must be submitted 48 hours in advance.

48. Each Contractors shall review and comply with any testing requirements listed in the contract documents.

49. Each Contractor shall review and comply with any commissioning requirements.

50. Coordination drawings and a task specific work plan may be required for any construction related activity, which will directly affect safety, campus systems, activities, staff or students. Construction Manager will advise the Contractor when a plan is required. Each plan must be submitted with sufficient time for review/approval by Construction Manager.

51. Coordinate soil compaction testing with Construction Manager. Note: Initial compaction test will be provided at no cost to the Contractor. Any costs or lost critical path time, associated with retesting of soil compaction in areas that failed previously are the responsibility of that Contractor.

52. Provide Inspection and repair of all defective work for a period of one year from the date of Notice of Completion, or if subsequent repairs are required, one year from the date the repairs are complete. This requirement is not in lieu of any extended warranties.

53. Provide owner with specified contract closeout documents, including but not limited to, complete "As Built drawings", Operations and Maintenance Manuals, Guarantees and Warranties (including manufacturer's extended warranties) at conclusion of contract.

54. Each Contractor must supply waiver and releases upon progress payment and final payment. This includes waivers and release from tiered subcontractor or supplier. Failure to provide required releases may delay processing of payment.

55. Each Contractor shall provide Personal Protective Equipment (PPE) for each employee on site. PPE shall consist of Safety vests, hardhats, safety glasses, work boots, long pants and sleeved shirts. Failure to wear the minimum required safety equipment for the task being performed will result at minimum in stoppage of the work task. Safety equipment must be worn at all times while on site. This requirement applies to delivery drivers entering the site.

56. Deliveries may be rejected if proper PPE is not worn.

57. Each Contractor shall provide appropriate drinking water and shade (when necessary) for all of their own staff and workers as required by current OSHA/CAL-OSHA regulations related to heat illness.

58. Each Contractor must provide all traffic control and protection as may be required to meet Federal, State, City or local codes regulations in the performance of their own work. At no time are obstructions of roadways and/or sidewalks allowed without the appropriate permits. It is the responsibility of each Contractor to obtain (and pay for) any such required permits. When traffic control is being provided, certified flagmen should be utilized.

59. Each Contractor shall comply with the requirements of AB 219 as it pertains to the related scope of work.

60. Provide protection for public and worker safety (barricades, harness, shoring, etc.) as required to meet applicable Federal, State, City or Local Codes. Engineering shoring plan must be submitted for approval for excavations greater than 5' or at excavations impacting existing structures prior to commencing work.

61. Each Contractor shall provide weekly safety meeting reports to the Construction Manager. Meeting reports with attendee signatures shall be turned in no later than each Friday for that week.

62. Provide protection of contiguous work to prevent damage when performing work under each respective contract. Repair of any work damaged under each contract will be performed by the responsible Contractor with no additional cost to the owner, District or Construction Manager.

63. Each Contractor must contact Underground Service Alert before digging.

64. Provide protection, security, theft and proper storage for all construction materials related to each Contractor's Bid package to eliminate damage during shipping, delivery, handling, storage and installation.

65. Each Contractor is responsible for locating and protecting existing public and private utility, facilities and other property improvements and to locate and protect all work in place.

66. Each Contractor will be responsible for all billings, submittals, schedule updates, drawing updates and required documents, as may be applicable to the project, through our cloud-based project management program, Procore.

67. Off-site parking will be available to all contractors. On-site vehicle parking is extremely limited due to the nature of the project site and will only be available via prior authorization from Construction Manager on site staff.

68. Lean Last Planner – The scheduling of the project shall be provided using a combination of the (P6) critical path method to track the project at the milestone level and the Last Planner® System. Milestone schedules shall represent hard dates for major project milestones that will guide the Contractor Last Planner® phase planning, 6-week make work ready planning, and weekly work planning sessions. Construction Manager shall require each of its Contractors & Subcontractor and Material Suppliers to participate in the pull planning scheduling sessions for the project as necessary according to their work. The following items will be discussed in the weekly Pull planning meetings.

69. Specification Section 017419 – Construction Waste Management. This specification section shall apply to all Bid Packages.

Pull Planning Implementation

- Milestone Schedule
- Milestones (Schedule) – Set milestones
- Construction Strategy
- Identify construction activities & durations for each milestone
- Identify manpower required to meet commitment dates
- Specify predecessor and successor activities
- Identify operational control
- Identify pre-requisites and constraints
- Weekly Work Planning
- One tag per day, per activity
- Daily commitments from Last Planners
- Identifying and eliminating constraints
- Document progress daily/weekly
- Measuring & Evaluating
- Identify long lead items & stakeholder milestones
- Update Milestone schedule with Phase and Weekly Work Plan activities & durations
- Document commitments made/missed
- Measure Percent Plan Complete (PPC)
- Identify reasons for missed commitments
- Develop plan of action to correct missed commitments

Lean cores tools to be utilized are 5S, Teams, Standard Work, A3 Problem Solving, Error Proofing and BIM. The Pull Planning session commitments shall represent updates to the baseline schedule.
contractors will be required to start attending Pull Planning a minimum of 4 weeks ahead of mobilization, or as the project requires for their scope.
On-Site Foreman of each Contractor on site, including subcontractors, will be required to attend daily 15-Minute Foreman's Huddles as part of the implementation of the pull plans.

Bid Submission:
It is the responsibility of each bidder to inspect the project site, review the complete set of plans, specifications, schedules, addenda, and city/county/state standards and the Construction Manual, prior to submitting a Bid.

Bidder is solely responsible for costs and expenses incurred in developing his Bid. Nothing within Bidding Documents shall be construed as establishing a relationship between the Owner or Construction Manager and Bidder wherein the owner or Construction Manager shall compensate Bidder for developing such Bid. The submission of a bid shall be taken as prima facie evidence that submitting party is aware of the site conditions and has read and acknowledges the foregoing.

Each Bid submitted must include the following items at the time of Bid:

1. 00 41 13 Bid Form and Proposal
2. 00 43 13 Bid Bond on District's form or other security
3. 00 43 36 Designated Subcontractor's List
4. 00 45 01 Site Visit Verification (mandatory for BP-01, BP-08, and BP-09)
5. 00 45 19 Non-Collusion Declaration
6. 00 45 19.01 Iran Contracting Act
7. 00 45 46.11 Federal Debarment Certification
8. 00 45 46.12 Federal Byrd Ant-Lobbying Certification

LEAD TRAINING - take one or the other type of lead training; not both.
2-Hour Lead Awareness Training in accordance with Cal/OSHA 8 CCR 1532.1 (l)(1)
Your employees need this if they:
Work at Washington MS at any given point in time. Expected to not disturb any lead painted components. This training is **not** sufficient training if your employees **will** disturb lead in any manner. This training is worker specific and is an annual required training.

Action-Level Lead Training Cal/OSHA 8 CCR 1532.1 (l)(1) (2) (typically 4-6hours in duration)
Your employees need this if they are:
Expected to disturb lead painted components at Washington MS at any given point in time and for any reason. This training is worker specific and is an annual required training. This is also listed in the Lead Scope of Work.

ASBESTOS TRAINING – take one or the other type of asbestos training; not both.
2-Hour Asbestos Awareness Training in accordance with EPA AHERA 40 CFR 763.92
Your employees need this if they:
Who works in or may work in a building that contains asbestos-containing materials. This training is **not** sufficient training if your employees **will** disturb asbestos in any manner. This training is worker specific and is an annual required training.

Asbestos Abatement Work Training in accordance with EPA AHERA 40 CFR 763 Subpart E Appendix C.
Your employees need this if they:
Will be disturbing asbestos-containing materials in any amount. This training is also listed in the Asbestos Scope of Work. It is worker specific training.

Bid Package 01 Selective Demolition & Abatement – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**
1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 013516 – Alteration Project Procedures**
   b. **Section: 017419 – Construction Waste Management and Disposal**
   c. **Section: 024113 – Selective Demolition**

2. Refer to the CPM schedule and phasing plans and calculate multiple mobilizations as necessary to complete this work.

3. Provide abatement per the YES Environmental, Inc. Asbestos Abatement Scope of Work dated April 10, 2024. Contractor to adhere to all requirements of the YES Environmental, Inc. Lead Remediation Scope of work dated April 10, 2024. Prime contractor to follow all recommendations and environmental regulations required for proper disposal of hazardous containing material.

4. Provide site demolition including central plant chiller yard equipment, piping, transformer & pad. Provide demolition of concrete slab.

5. Provide selective building demolition including sheet metal pipe covers with concrete slabs, housekeeping pads, roofing, flooring, glue-on ceiling tiles, glue-on ceiling tile substrate, nailers, stripping, acoustical T-Bar ceilings, plywood walls, drywall ceilings & walls, wall base, smooth plaster, tackboards and all other items scheduled to be demolished per the Architectural and Structural drawings.

6. Demo hard lid ceiling at Teachers Workroom (B-6) and Teachers Lounge (B-7) at Building B.

7. Provide removal of plywood finish at locations where conduit and piping are to be installed within the wall cavity as shown on the Mechanical and Electrical drwaings. Coordinate with Mechanical and Electrical Prime Contractor. Refer to electrical and mechanical plans where in-wall pipe and conduit are called to be installed. Figure a 16" wide strip of plywood wall finish, floor to ceiling at all locations.

8. Provide razor scraping of flooring adhesive and mastic ready for Flooring Contractor.

9. Provide selective mechanical demolition including all unit ventilators, louvers, ductwork, registers, conduit, piping, controls, and all other items scheduled to be demolished per the Mechanical drawings. Coordinate with the Mechanical Prime Contractor. Excludes rooftop Air Handling Unit removal by Mechanical Contractor.

10. Provide removal and salvage acoustic ceiling tile, book cases, ceiling mounted strobes, sensors, speakers, projectors and smartboards for reinstallation by others. All salvaged items to be returned to the school district.

11. Provide selective electrical demolition including receptacles, light fixtures, conduit, cabling, equipment, and all other items scheduled to be demolished per the Electrical Drawings. Properly dispose of all fluorescent bulbs and ballast. Coordinate with electrical Prime Contractor.

12. Provide demolition of fire alarm devices, conduit, and cabling. Coordinate with Electrical Prime Contractor.

13. Protect in place those finishes and fixtures that will remain.

14. Provide removal and proper offsite disposal of all demolition materials including any trash, loose debris etc., created because of this work. Note: Demolished material may not be stockpiled on site over weekends and holidays. The intent is to have all material removed from the site at the time of demolition to avoid potential safety issues.

15. This is a "Green Code" project: Provide Construction Waste Management Plan for this proposal package. Refer to Specification Section 01 74 00 (Construction Waste Management and Disposal) for more detailed information.

16. Provide all layout necessary to complete this scope of work. This contractor is responsible for taking, checking and verifying all field dimensions.

17. Provide dust control and street clean up, meeting or exceeding the San Joaquin Valley Air Board District or any other applicable code or regulation, for all generated airborne particles and/or mud/debris that may be deemed unhealthy and/or a nuisance to the public. Any fines received because of this Contractor's failure to meet these codes or regulations will be the responsibility of this contractor.

18. Construction water will be supplied by the District. This contractor shall provide their water trucks, hoses, etc. and maintain appropriate wetting of the site throughout the duration of their contract while on-site. The use of a water truck will be required.

19. Provide a written demolition plan which addresses major work activities. Plan shall coincide with CPM schedule dates. Intent is to coordinate items such as trucking haul routes, clean-up plan, BMP's etc.

20. Provide demolition permit as required by code or regulation for work being performed. Copies of permits must be delivered the site construction office prior to commencing any work.

21. Obtain an approved haul route permit complete with driving route, traffic control plan, and hours of approved work from the City Public Works and/or any other required agency prior to commencing demolition or hauling.

22. Prime Contractor shall keep all access roads, haul roads, school parking lot and city or other public streets clean of any and all materials resulting from demolition and or track-out.

23. Coordinate and arrange for an acceptable queuing/staging area for any and all trucks used haul material to or from the site with any municipality having jurisdiction prior commencement of any hauling.

24. Prep and clean walls in preparation for new plywood and tackable wall surfaces provided by others. Walls to be clean of debris, nails, tacks, and all other items posing as an obstruction to the installation of new finishes.

25. Remove TV monitors and marker boards and salvage them to the Owner for reinstallation by others.

26. Allowance #01 – Unforeseen Conditions: Include the sum of $50,000.00 in your Contract Amount for the following: Unforeseen selective building demolition, site demolition, and other unforeseen items not identified in the Contract Documents. This allowance shall be listed in the Schedule of Values and shall be tracked on a Time and Material basis. Profit and overhead on top of this Time and Material work will not be allowed. This allowance amount is to be used as directed by the District and is not to be used to fulfill obligations under this contract. All costs used against this allowance must be agreed to by the District before work is started. All unused portions of this allowance shall be credited back to the owner in the form of a deductive change order at 100% of the remaining value. This allowance shall be included in the base bid.

Bid Package 02 Rough Carpentry – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 017419 – Construction Waste Management and Disposal**
   b. **Section: 013516 – Alteration Project Procedures**
   c. **Section: 061000 – Rough Carpentry**
   d. **Section: 079200 – Joint Sealants (as pertains to this Bid Package)**
2. Refer to the CPM schedule and Area Phasing plans and provide multiple mobilizations as necessary to complete this work.
3. Provide all rough framing including wall infill, soffits, roof framing, rooftop platforms, bracing, wall & roof sheathing, nailers, blocking, backing for all trades, layout, attachment of wood to other materials, fire stopping as required by code, fastenings and accessories, cutting and patching required by the work of other trades, barricades and scaffolding.
4. Provide wall infill framing where louvers and ducts are being removed. Figure plywood finish on both the exterior and interior side of wall infill. Interior walls are plywood not drywall.
5. Provide removal of rafters, joists, and purlins as required for new work per the contract documents.

6. Provide cutting and framing for new roof openings and platforms for new rooftop mechanical equipment. The cutting of any roof structure and roof decking will be the responsibility of this Bid Package.

7. Provide blocking, framing and supports required for any mechanical, electrical and plumbing component, required for completion of the MEP work; provide backing for Owner provided TV brackets.

8. Provide truss retrofit including L iron angles and all other accessories and attachments per the contract documents.

9. Provide all builders hardware (i.e. Simpson or similar) including all fasteners including bolt nuts washers, shot pins etc.

10. Provide all fasteners (nuts, bolts, washer, lock washers etc.) for any wood-to-wood, wood-to catalog hardware, wood-to-concrete connections.

11. Provide all fire treated backboards required to mount electrical, low voltage, or telephone items. Coordinate the location of these backboard with the other Contractor as appropriate.

12. Provide vertical and horizontal Firestopping at all required locations per specifications and plans.

13. Provide all layout necessary to complete this scope of work. This contractor is responsible for taking, checking and verifying all field dimensions.

14. Provide blocking for the smart board and two whiteboards at each classroom. Coordinate opening with Demolition Contractor and blocking with District.

15. Provide plywood wall sheathing finish at locations where existing plywood has been removed for the installation of in-wall pipe and conduit as shown on the Mechanical and Electrical plans. Refer to electrical and mechanical plans where in-wall pipe and conduit are called to be installed. Figure a 16" wide strip of plywood wall finish, floor to ceiling at all locations. Coordinate with Demolition contractor.

16. **Allowance #01** – Unforeseen Conditions: Include the sum of $25,000.00 in your Contract Amount for the following: patching plywood finish at classroom walls and other unforeseen items not identified in the Contract Documents. This allowance shall be listed in the Schedule of Values and shall be tracked on a Time and Material basis. Profit and overhead on top of this Time and Material work will not be allowed. This allowance amount is to be used as directed by the District and is not to be used to fulfill obligations under this contract. All costs used against this allowance must be agreed to by the District before work is started. All unused portions of this allowance shall be credited back to the owner in the form of a deductive change order at 100% of the remaining value. This allowance shall be included in the base bid.

Bid Package 03 Miscellaneous – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**
1000 Ming Ave,
Bakersfield CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 017419 – Construction Waste Management and Disposal**
   b. **Section: 072100 – Thermal Insulation**
   c. **Section: 073113 – Asphalt Shingle Patching**
   d. **Section: 075713 – Sprayed Foam Roofing System**
   e. **Section: 076200 – Sheet Metal Flashings and Trim**
   f. **Section: 079200 – Joint Sealants (as pertains to this Bid Package**
   g. **Section: 312000 – Earth Moving**

2. Refer to the CPM schedule and Area Phasing plans and provide multiple mobilizations as necessary to complete this work.

3. Provide 4" Concrete slab with #4 rebar per detail 1 on A2.21 at Chiller Yard and side enclosure. Includes fine grading and leveling of soil as required to meet existing grade.

4. Provide cutting, removal and patching of existing roofing at all locations where rooftop units are to be removed or installed. Allow up to a 2' radius around rooftop units. Match existing roofing material.

5. Provide crickets at new rooftop unit locations.

6. Provide all sheet metal associated with the roofing system including drip flashings, counter flashings, valley flashings, springlock flashing, expansion flashings, reglets, and trim.

7. Provide all specialty flashing, or accessory required by the roofing manufacturer to maintain any warranties (standard or extended), whether or not this flashing is referenced in the contract documents.

8. Coordinate the placement and configuration of all flashing with all other trades as appropriate.

9. Provide spray foam roofing system patching at all roofing locations, to match existing, as shown in the contract.

10. Provide all thermal insulation in walls and roof areas as shown on the drawings.

11. Provide thermal insulation at all exterior wall infill locations to create a fully insulated installation.

12. Provide thermal insulation at underside of roof deck at areas where rooftop mechanical units are being removed and/or installed.

13. Provide thermal insulation at new ceiling areas as shown.

14. Provide all attaching clips, pins, wires or other fasteners required to install any insulation noted in this package.

15. Provide vapor barrier on the inside envelope as noted in the contract documents.

16. Re-Install salvaged bookcases.

17. Provide proper number of move-ins required to complete work.

Bid Package 04 Cement Plaster & Drywall – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings apart from items listed as "Work by Others":
   a. **Section: 013516 – Alteration Project Procedures**
   b. **Section: 017419 – Construction Waste Management and Disposal**
   c. **Section: 079200 – Joint Sealants (as applies to this Bid Package)**
   d. **Section: 092400 – Cement Plastering**
   e. **Section: 092900 – Gypsum Board Assemblies**

2. Refer to the CPM schedule and Area Phasing plans and provide multiple mobilizations as necessary to complete this work.

3. Provide all gypsum board and tile backing panels, taping and accessories, trim, screws, staples, joint tape and compounds and texture finish for walls, ceilings, and soffits.

4. Provide plaster patch back at all mechanical louver and ducting infill locations; figure a minimum dimension of 3'x3'. Plaster finish to match existing; painting of plaster by others.

5. Provide all lath, paper, weather resistive barrier, self-adhered flashing, fasteners, edge metal, screed, expansion screed/metal, vent screeds, control joint metal, parting joint, expansion joint, casing bead, door drips base screen, weep screed, and reveals for any plaster surface noted in the contract documents.

6. Provide a contained clean out area to be used for cleaning all trucks, mixers, tools, wheelbarrows, etc., used to apply any cementitious or gypsum-based material under this bid package. No such material will be cleaned out/rinsed onto bare soil on this site. All such material will be removed and properly disposed of offsite as part of this contract work. SCA requires the use of the below or similar product. **The cleanout shall be erected a minimum of 24 hours prior to anticipated use.** Proper removal and off-site disposal of the cleanout shall be performed as soon as liquids have evaporated.

7. Provide vertical and horizontal firestopping at all required locations per specifications and plans.

8. NOTE: the wall finish within classrooms is not drywall, it is a plywood finish (supplied and installed by others).

Bid Package 05 Acoustical Ceilings – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 017419 – Construction Waste Management and Disposal**
   b. **Section: 079200 – Joint Sealants (as it pertains to this Bid Package)**
   c. **Section: 095113 – Acoustical Panel Ceilings**

2. Refer to the CPM schedule and Area Phasing plans and provide multiple mobilizations as necessary to complete this work.

3. Provide all acoustical ceiling system complete with mains, runners, lay-in fiberboard panels, including wires, hangers, braces, edge metal. sway bracing, struts, compression struts, seismic restraints mounting hardware, accessories etc. required to produce a completed ceiling.

4. Provide additional wires at any suspended ceiling as required for attachment to all light fixtures, HVAC grilles/registers, or any other device required to be mounted to or through an acoustical ceiling as required to meet any applicable codes.

5. Provide any and all fasteners, supports, bracing, clips, channels, panel termination, and trim required to produce a complete ready for use system.

6. Provide patch back of glue-on acoustic tile at classroom light wells per the contract documents.

7. Provide new tackboard finish to classroom walls as called out. Tackboard finish to be Chatfield Clark, Koroseal Ceres, Fog. Tackboard to terminate at the bottom of the T-bar ceiling grid. Provide aluminum cap where tackboard terminates. Contractor is responsible for cleaning of existing substrate for proper adhesion.

Bid Package 06 Floor Covering – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 017419 – Construction Waste Management and Disposal**
   b. **Section: 079200 – Joint Sealants (as it pertains to this work)**
   c. **Section: 096513 – Resilient Base and Accessories**
   d. **Section: 096813 – Tile Carpeting**
   e. **Flooring and Base**

2. Refer to the CPM schedule and Area Phasing plans and calculate multiple mobilizations as necessary to complete this work.

3. Provide all flooring including, carpet tile, entry mat, and topset base as/where noted in the contract documents.

4. Provide caulking/sealers, adhesives, tack strip, edge metal trim, cove base, cove base cap trim, carpet edge guard, reducing metal (Schluter, etc.), cover caps, transitional moldings, as/where noted in the contract documents required to produce a complete and ready for use installation.

5. Contractor must participate/attend pre-installation meeting to be set by the Construction Manager.

6. Provide submittals, shop drawings, seam diagrams, manuals, product data sheets and samples as noted in specifications including color samples as appropriate.

7. Provide proper preparation of flooring substrate including application of primers, fillers (including joints or cracks), or any other floor prep material used in the flooring installation.

8. Provide moisture and PH testing of the substrate as noted in the contract documents, evaluate all readings and confirm the test results are conducive to the floor covering.

9. Furnish owner with additional (extra) material as noted in the contract documents.

10. Provide and maintain protection of all finished products during the construction.

11. This contractor should anticipate grinding and filling (due to curling or other defects) of slab on grade work will be necessary to bring some slabs on grade or portions of slabs on grade to bring them into tolerance. This work shall be included the pricing of this proposal package. Contractor shall figure a minimum of 4 man-hours per room for this work. Any time used shall be coordinated with Construction Manager prior to performing work.

Bid Package 07 Painting – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 079200 – Joint Sealants (as it pertains to this work)**
   b. **Section: 099000 – Painting**

2. Refer to the CPM schedule and Area Phasing plans and provide multiple mobilizations as necessary to complete this work.

3. Provide painted surfaces, including but not limited to sealer, primer, base, finish, accent or any other noted paint as noted below:

   a. Exterior painting shall include but not be limited to exposed plaster patches and piping per the mechanical drawings or any other surface noted to be painted. Plaster patches to match existing.

   b. Interior painting shall include but not be limited to gypsum board at walls, ceilings and soffits, doors, frames, windows, and columns as called out in the Contract Documents. For drywall called out to be painted, figure painting entire length of said wall, corner to corner. Exposed conduits per the Electrical drawings. Exposed Condensate lines and ductwork per the Mechanical drawings. Patched openings as called out on the Mechanical drawings.

4. Provide proper preparation for all items and surfaces called out to be painted.

5. Provide final painting of any surface after the other trades have completed their work and the ceilings have been installed. This Contractor should anticipate some minor repair work to fix dings, dents, chip etc. prior to the application of the finish coating. This work shall be a part of this contract.

6. Provide touch up of finish paint as where required.

7. Clarification regarding the painting of exposed electrical conduit, control conduit and condensate piping: please figure the painting of aforementioned items on the roof at each rooftop unit location. Piping and conduit runs not shown on the plans at these locations should be figured to have approximate lengths of 5'.

Bid Package 08 Mechanical – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 017419 – Construction Waste Management and Disposal**
   b. **Section: 024119 – Selective Building Demolition (as it pertains to this work)**
   c. **Section: 079200 – Joint Sealants (as it pertains to this work)**
   d. **Section: 224000 – Plumbing**
   e. **Section: 230010 – General Mechanical Provisions**
   f. **Section: 230593 – Testing, Adjusting and Balancing for HVAC**
   g. **Section: 230700 – HVAC Insulation**
   h. **Section: 232300 – Refrigerant Piping**
   i. **Section: 233113 – Air Distribution**
   j. **Section: 237000 – HVAC Equipment**

2. Refer to the CPM schedule and Area Phasing plans and calculate multiple mobilizations as necessary to complete this work.

3. Provide layout, and coordination of ductwork, supports, controls, equipment, curbs, piping, and all other plumbing and HVAC related items to be demolished by others (BP01 Selective Demolition & Abatement).

4. Provide draining of all existing HVAC Units to be removed / demolished.

5. Remove existing rooftop units as called out in the Contract Documents.

6. Provide installation of Owner furnished HVAC units including picking up the units from the Owner's designated location at the Hadco Warehouse located at 1201 Citation Way, Bakersfield, CA 93308 and delivering to the project site ready for installation. Additional information clarifying Owner Furnished equipment to be provided via Addendum.

7. Provide installation of Owner furnished thermostats. Cut sheets to be provided via Addendum.

8. Provide HVAC system as shown in the contract documents, complete and ready for use. This includes all piping, roof curbs, flashing, fittings, flanges, anchors, final connections, etc. required to make the system completely functional.

9. Provide hangers, bracket, support, splay, rod, brace, angle, strap, fastener, clip etc. for work provide under this proposal package.

10. Provide insulation, jackets, vapor barrier, coatings, wrappings, fire caulking or firesafing/stopping for any duct, piping, fitting, valve or device provided as part of this work.

11. Provide condensate piping, drains (primary or secondary), and main drains complete for all HVAC units, including final connection of any such drain.

12. Provide all refrigerant piping and accessories complete as part of the indoor / outdoor units

13. Provide drip pans (primary or secondary) prepared to accept/receive condensate piping as/where required for all HVAC units requiring same.

14. Provide t-stats or any other device required to complete the controls system as/where noted including all required programming and training.

15. Provide connection of suspension wires to any grilles, registers etc. provided as part of this work. Installation of the wire to the structure are by others.

16. Provide caulking and/or joint sealers for all work provided under this proposal package.

17. Provide access doors as required by the work of this contract.

18. Provide air balancing accompanied by the appropriate supporting documentation/certification.

19. Provide all grilles, louvers, diffusers, and any finish trim etc. necessary to produce a finished complete working system. Note: It is this Contractor's responsibility to connect the ceiling wires to these items as required.

20. Provide location and/or layout for any backing or framing opening that is required to install any work performed under this proposal package.

21. Provide removal and patch back of concrete, asphalt and landscaping disturbed by work in this proposal package.

22. Provide all required, marking, labeling and signage for all piping, valves, devices, units, etc.

23. Provide flashing and counter flashing wherever any part of a system installed under this bid package penetrates a roof or outside wall. These penetrations shall be flashed and counter-flashed absolutely watertight with a minimum 24 gauge galvanized sheet metal. Flashing apron shall extend not less that eight inches (8") from the conduit, pipe, device or support member in all

directions unless detailed otherwise and approved prior to installation. All penetrations shall be flashed following the procedures of the National Roofing Contractor's Association.

24. Provide commissioning and documentation thereof for any item or system as required per the specifications.

25. Provide temporary filters in all equipment, for use in any equipment of this system for start-up and thru the construction phase.

26. Provide removal and off-site disposal of all temporary filters and replace with permanent filters for all equipment prior to testing and balancing with new filters.

27. All firesafing and stopping to be coordinated with DSA inspector and other trades prior to installation.

28. Mini-split curbs are not Owner Furnished. Contractor to provide mini-split curbs per the contract documents.

29. Allowance #01 – Control Systems: Include the sum of $25,000.00 in your Contract Amount for the following: unforeseen work required for the control system / EMS not clearly identified on the Mechanical Drawings. This allowance shall be listed in the Schedule of Values and shall be tracked on a Time and Material basis. Profit and overhead on top of this Time and Material work will not be allowed. This allowance amount is to be used as directed by the District and is not to be used to fulfill obligations under this contract. All costs used against this allowance must be agreed to by the District before work is started. All unused portions of this allowance shall be credited back to the owner in the form of a deductive change order at 100% of the remaining value. This allowance shall be included in the base bid.

Bid Package 09 Electrical & Fire Alarm – Addendum 2

PROJECT: **Wayside Elementary School HVAC Replacement**

1000 Ming Ave.
Bakersfield, CA 93307

DSA NUMBER: 03-122531

OWNER: Bakersfield City School District
1300 Baker St.
Bakersfield, CA 93305

In addition to the items noted in Proposal Package 00 – Standard Project Requirements, which are applicable to ALL Prime Contractors, the Specific Scope of the Work shall include, but not necessarily be limited to the items listed below in accordance with the applicable drawings and specification section(s). Prime Contractors shall review all sections below and include any costs to comply in their base Bid.
NOTE: The term "Provide" is defined as "to furnish and install, complete and ready for the intended use."

BASE PROPOSAL

1. Provide all work specified within the following specification sections and drawings with the exception of items listed as "Work by Others":
   a. **Section: 017419 – Construction Waste Management and Disposal**
   b. **Section: 024119 – Selective Demolition (as it pertains to this work)**
   c. **Section: 079200 – Joint Sealants (as it pertains to this work)**
   d. **Section: 260573 – Short Circuit Protective Devices Coordination Study**
   e. **Section: 260574 – Arc Flash Hazard Study**
   f. **Section: 260943 – Network Lighting Control**
   g. **Section: 266000 – General Conditions**
   h. **Section: 267000 – Basic Electrical Materials and Methods**
   i. **Section: 293100 – Fire Detection and Alarm Systems**
   j. **Section: 312000 – Earth Moving (as applies to this Bid Package)**
   k. **Section: 321216 – Asphalt Paving (as applies to this Bid Package)**

2. Refer to the CPM schedule and Area Phasing plans and calculate multiple mobilizations as necessary to complete this work.

3. Electrical contractor shall make all buildings and site safe for demolition to be performed by others. Provide coordination and layout for the demolition Contractor.

4. Ensure existing systems outside of the construction area are left in working order during construction. Coordinate any system outages (if required) with SCA.

5. Perform shutdowns or tie-ins during off hours. This Contractor shall include any second shift, or overtime work, and temporary facilities for such work. Notify all parties initially two (2) weeks in advance and again forty-eight (48) hours in advance before any shutdowns or tie-ins are made.

6. Contractor shall acquire an Underground Service Alert Permit for the scope of this package and maintain it during underground activities. Provide the permit number and expiration date to SCA prior to starting underground work.

7. All fire-safing and stopping to be coordinated with DSA inspector and other trades prior to installation.

8. Provide all building electrical, including but not limited to conduit, connectors, boxes, plates, receptacles, switches, fireproofing requirements, pull rope/strings, fixtures, exit signs, emergency lighting, inverters, bulbs, transformers, ~~panels~~, breakers, grounds, racks, penetrations and testing as noted in contract documents. Note: to Clarify: all wiring, conduits, fittings, pull boxes, junction boxes etc. necessary for the connection of any electrical, low voltage systems, fire alarm, or controls, etc. are part of this contract work. Panels are Owner Furnished, Contractor Installed.

9. Provide installation of Owner furnished Electrical equipment including picking up the units from the Owner's designated location at the Hadco Warehouse located at 1201 Citation Way, Bakersfield, CA 93308 and delivering to the project site ready for installation. Additional information clarifying Owner Furnished equipment to be provided via Addendum.

10. Provide all site underground or above ground electrical, power, fire alarm, including but not limited to trenching/excavation, conduit, fitting, pull boxes, vaults, bedding, shading, backfill, compaction, pull rope/string, wire, connectors, anchor bolts, layout and placement of required anchor bolts, light poles, and relocation of pull boxes as noted on plans. Switchgear is Owner Furnished, Contractor Installed.

11. Provide PG&E infrastructure including all conduit, vaults, transformer pad, and bollards per the PG&E drawings. Contractor to coordinate PG&E inspections.

12. Provide removal and patch back of concrete, asphalt and landscaping disturbed by work in this proposal package.

13. Maintain power connection to the chiller section of the existing main switchboard in order to keep the HVAC system operational during construction. Shutoffs to be coordinated with the Construction Manager and scheduled appropriately.

14. Provide a complete and operational Fire Alarm system including but not limited to: Fire Alarm system, terminal blocks, horizontal wiring, backbone wiring, jacks, faceplates, terminations, cross connects, programming, etc.

15. Locate using appropriate means all existing underground utilities, electrical and communication conduit etc. within the new construction site. Update General Contractors As-Built drawings showing the locations of all existing utilities prior to commencement of any work.

16. Provide any excavation, shading, sand, bedding, backfill and compaction for any work under this contract.

17. Restore grades in all areas excavated to the pre-existing condition and provide written certification these grades have been restored. Any costs associated with surveying or re-working areas previously graded shall be the responsibility of this contractor.

18. Provide off-site removal of all spoils generated by this work.

19. Include battery calculations for emergency lighting with submittals.

20. Provide all specified labeling, stenciling, tagging identification of equipment and all systems installed in this Contract. All panels must be labeled with “typewritten” labels prior to initial “punch-walk”.

21. Provide all access doors/panels required for this proposal package. Contractor shall coordinate with the Rough Framing Contractor for the location and installation of required backing material.

22. Provide disconnect switches and motor starters for equipment supplied by this and other Contractors as required. Locations of disconnect switches to be coordinated with other contractors to ensure clear view from equipment to disconnect switch. Include all supports, stands, etc. to support such items.

23. Provide connection of supporting ceiling wires to light fixture or any other device provide as part of this work.

24. Provide flashing and counter flashing wherever any part of a system installed under this proposal package (including Fire and Telecom) penetrates a roof or outside wall. These penetrations shall be flashed and counter-flashed absolutely watertight with a minimum 24-gauge galvanized sheet metal. Flashing apron shall extend not less than eight inches (8”) from the conduit, pipe or support member in all directions unless detailed otherwise and approved prior to installation. All penetrations shall be flashed following the procedures of the National Roofing Contractors Association.

25. Provide Arc Flash Hazard Studies as required by current code.

26. Provide all breaker testing as required by current code and/or per the specifications.

27. At the commencement of construction, coordinate a meeting through SCA with all trades that require electrical power. All items and equipment shall be verified for voltage, amperage, phase, location, orientation, space requirements, type of connection, starter and disconnect locations and provisions, control system operation, etc. Any discrepancies shall be listed in a formal RFI to SCA.

28. Contractor is responsible to verify/coordinate the correctness of all locations, dimensions, size of equipment/fixtures/conduit etc., with all other trades and building components. Contractor shall verify that all electrical items will fit within the designed wall cavities, ceiling spaces, furred areas, etc. before floors, decks or underground work is installed.

29. Provide full coordination and scope coverage between the HVAC Contractors for the duct smoke detection systems. This Contractor will review all the Contract Documents to confirm that all of the necessary components, conduits, equipment and low/line voltage wiring is defined properly between trades so that a complete operation system will be obtained. HVAC Contractor to install the duct smoke detectors.

30. Provide temporary power boxes (1 each per building) and power cords until permanent power supply is established to the building.

31. Provide all connections, supports, support wires, rods, braces, angles, straps, anchors, etc. for work installed under this proposal package.

32. Provide conduit, wire and connections for other trades as noted in plans and specifications.

33. Provide commissioning and documentation thereof for any item or system as required per the specifications.

34. Provide any joint sealant/caulking required to finish and seal the work of this proposal package.

35. Provide disconnects of economizer separate from AC units.

36. Contractor shall comply with the requirements of AB 219 as it pertains to the related scope of work.

37. Provide sufficient manpower and equipment to meet the dates shown on the CPM schedule. Refer to Bid package 00 (Project Requirements) for more detailed requirements.

38. Provide submittals in accordance with the Project Manual and CPM Schedule.

39. Provide final cleaning of all equipment, etc.

40. Furnish and install all fire stop material as required at all penetrations through rated walls, ceilings and slabs required by the work to meet code and construction document requirements.

41. All single line and electrical drawings and diagrams are schematic in nature and actual locations of devices and routing of conduit and wiring will vary due to actual project conditions. Include all necessary relocations and re-routing as required for a complete and functional system.

42. Contractor shall provide formal training to school district staff on any installed system.

43. Provide housekeeping pads for transformers, panels, and switchgear per the contract documents.

44. Provide reinstallation of ceiling mounted ionizers.

45. Note: the wall finish within classrooms is a plywood finish, not drywall.

46. Provide all Division 27 and Division 28 work as described in the specifications and as shown on the Camera Plot Map plan and the Standard Classroom plan. Provide all work required for complete and functioning systems including the installation of Owner provided equipment.

47. Provide all low voltage rough-in, data outlets, wireless access points, intercom speakers, and cabling per the contract documents.

48. Allowance #01 – Low Voltage Systems: Include the sum of $125,000.00 in your Contract Amount for the following: all low voltage work as specified in the Divisions 27 and 28 and are not clearly identified on the Electrical Drawings. This allowance shall be listed in the Schedule of Values and shall be tracked on a Time and Material basis. Profit and overhead on top of this Time and Material work will not be allowed. This allowance amount is to be used as directed by the District and is not to be used to fulfill obligations under this contract. All costs used against this allowance must be agreed to by the District before work is started. All unused portions of this allowance shall be credited back to the owner in the form of a deductive change order at 100% of the remaining value. This allowance shall be included in the base bid.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

ASBESTOS ABATEMENT SCOPE OF WORK

Site Information:
Wayside Elementary School – HVAC Replacement
1000 Ming Avenue, Bakersfield, CA 93307

Prepared for:
Bakersfield City School District
1300 Baker Street, Bakersfield, CA 93305
(661) 631-5885

Prepared by:
Kristy Yowell, CAC 09-4500 / CDPH 4640
YES Environmental, Inc. (YES, Inc.)
YES, Inc. Project Number 23YES-117
April 10, 2024

This SOW should be printed in color.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

ASBESTOS SCOPE OF WORK

Wayside Elementary School – HVAC Replacement

PURPOSE OF PROJECT

In order for Bakersfield City School District to install a new HVAC system, portions of buildings throughout campus have asbestos-containing materials and/or materials contaminated by asbestos that will either be removed or disturbed, and the work must be done using asbestos-safe work practices. The contractor is responsible for field verifying their own measurements for bidding, notification, waste characterization, or any other purpose.

This Scope of Work should be used in conjunction with all Federal, State and local codes. *The information provided in this section is intended to assist the contractor in determining the extent of work; however, this information does **not** replace or supersede any direction or description of work as presented in the plans and specifications for this project.* If YES, Inc.'s scope of work and the plans and specifications differ, the contractor shall be obliged to bring any discrepancies to the attention of the architect/owner's representative prior to bidding the project via submission of a request for information to the architect.

PHASING

This is a phased project. The contractor shall refer to the plans and specifications for phasing information.

MOBILIZATIONS

The contractor shall include in their bid cost for multiple mobilizations that will be requirements in order to coordinate necessary abatement and/or remediation activities with other trades, the District, and all other associated

DAYS BY PHASE FOR ABATEMENT ACTIVITIES

The contractor is limited to the follow number of days in order to complete abatement and remediation activities. This number of days does not include removal of containment.

Phase 1 = 30 Business Days
Phase 2 = 30 Business Days
Phase 3 = 50 Business Days
Phase 4 = 30 Business Days
Phase 5 = 40 Business Days
Total = 180 Days

DEFINITIONS

Abatement Activities:	precleaning of jobsite, setup of containment/regulated area, removal of asbestos-containing materials and final cleaning inside containment/regulated area in preparation for post abatement clearance air sampling or completion of work visual.
Asbestos-Containing:	material containing any detectable amount of asbestos. Acronym ACM.
Attic Floor:	is the surface within an attic space, serving as the ceiling for the room(s) below, and/or area with exposed joists. It is **not** a term that can used to infer a walkable surface.
Lead-Containing:	material containing any detectable amount of lead. Acronym LCP or LBP.
Remediation Activities:	precleaning of jobsite, setup of containment/regulated area, removal or disturbance of any sort of lead-containing materials and final cleaning inside containment/regulated area in preparation for job completion visual inspection by consultant.

Contractor: Remediation contractor, abatement contractor or any trade qualified to conduct the work described in this Scope of Work.

Consultant: BCSD's environmental consultant.

ASBESTOS & LEAD LOCATIONS, CONTENT & TYPE

Please see the attached Inspection Report by Room (IRBR) following this scope of work for identification of materials suspect to contain asbestos that have been sampled by YES, Inc. If any materials other than those identified in this scope of work and IRBRs are discovered and may be disturbed, work must be stopped and the project must be re-evaluated.

Of the materials being removed or disturbed, the contractor shall then refer to YES, Inc.'s IRBRs, XRF report and Scope of Work to determine the specific materials that contain asbestos and/or lead and those that have been determined to be free of asbestos and/or lead.

The IRBRs and XRF report do not denote materials to be removed; they report whether materials present contain asbestos and/or lead. Contractor should refer to the plans and specifications for abatement locations.

NOTIFICATIONS

The contractor shall be responsible for the submission of all notifications triggered by asbestos removal. This includes the renovation or demolition permit release form to San Joaquin Valley Air Pollution Control District and the Cal/OSHA Asbestos Notification.

SUPERVISOR & WORKER TRAINING REQUIRED

Workers and supervisors disturbing asbestos shall have AHERA accredited training as asbestos workers or contractor supervisors. Any exceptions to these training requirements shall be submitted to the consultant and building owner representative for review and await on approval before commencing with disturbance of ACM.

PRE-JOB SUBMITTAL REQUIREMENTS

A hard copy of the contractor's pre-job submittal packet shall be submitted to the consultant and:

1. Include all of the items listed in the attached Submittal Requirements;
2. Be provided to and approved by the consultant prior to the start of work by the contractor.
3. Manifests shall be submitted to the consultant on the first day of the project for review, and also for final approval prior to waste removal from the job site.
4. Double sided copies are not acceptable.
5. Delays in providing the required submittals may affect the start of the project.
6. Electronic submittals will be accepted for viewing and approval purposes only.

OTHER CONSIDERATIONS

Item	District Provided	Contractor Must Provide	Not Applicable / Required
Water	X		
Power	X		
Removal of Items to be saved	X		
Removal & Disposal of Items Remaining in Work Area		X	
Safety & Security of Equipment		X	
On-site challenge testing of HEPA filtered equipment within 5 calendar days of the start of the job		X	

SOFT DEMOLITION REQUIREMENTS

The contractor shall perform all soft demolition requirements prior to the commencement of containment setup. All components such as, but not limited to, cabinetry and walls shall be removed to expose any potentially concealed asbestos-containing materials prior to the start of abatement. However, if the removal of any of these components may disturb ACM, they shall be removed after containment and negative pressure are established and approved by the consultant. In addition, should the contractor discover any concealed ACM, they shall immediately bring it to the attention of the consultant and owner representative who will confirm the material and quantity. The agreed upon quantity and type of material(s) shall be recorded on the contractor's daily paperwork on the day it is discovered.

LAYERS OF ROOFING

The contractor is responsible for removal of all roofing layers down to the wood or metal substrate regardless of asbestos content, unless otherwise noted in the Scope of Work. Where it is unknown how many layers of roofing materials exist, it must be assumed that there are multiple roofing material layers present. The contractor may, upon request and approval by the client, collect core samples of any roof to be removed for the purpose of determining its depth and structure. If coring is conducted, it is the responsibility of the contractor to repair the areas affected to industry standards using non-asbestos materials.

INCLEMENT WEATHER

Roof abatement shall be planned and scheduled when there are favorable weather conditions, such as when there is a forecast for "clear skies" and no rain for three or more days. The contractor shall remove only that amount of roofing material that can be re-roofed or covered and secured from weather on the same work day. Work may be halted at the discretion of the onsite project manager if wind conditions occur, which can or does cause removed roofing materials to be blown off the roof area or beyond the designated removal area. All roofing work shall be coordinated to allow other trades to work at the same time as long as their work is located in areas where contamination cannot occur.

ALLOWABLE FORMS OF COMMUNICATION

The contractor shall establish a means of communication between the supervisor and workers inside the containment/regulated area which includes two-way radios or equivalent. At no time will yelling, whistling or banging on containment, walls or on the decontamination chambers be allowed as a form of communication.

OCCUPANCY

The building will be unoccupied in the areas where abatement is occurring. Other areas on campus, but outside of the abatement containment or regulated areas, may be occupied by staff, students, and other trades conducting work at this site.

WASTE BIN/CONTAINERS

All bins/containers brought on-site to deposit waste into must be lockable or securable. Bins shall be secured at the end of every shift. Plywood shall be placed under the wheels of each bin to protect the existing surface. Bins must be double lined with 6-mil poly prior to waste being deposited. Containers must have the appropriate labels affixed on them as soon as any ACM debris is deposited.

ASBESTOS CONTAINMENT/REGULATED AREA SETUP REQUIREMENTS

Containment setup requirements for all containments/regulated areas:

1. Buildings A, B, C, D, E, F and G shall have no more than one containment constructed for purposes of interior abatement in each of the buildings. These containments shall use either an exterior poly tunnel to connect the various rooms or submit an alternative option to the consultant for review. Without receiving approval of any alternate option, the contractor shall build the containment to meet the requirements in this SOW. Any other building's requiring containment for abatement will be addressed on a case-by-case basis by the consultant.
2. If the setup of the containments requires questionable installation, the district representative and consultant shall be asked in writing and approval must be given in writing prior to work being performed.

3. All containments shall be under full containment and negative pressure built in the most appropriate manner which meets or exceeds the requirements listed in this SOW and Cal/OSHA regulations.
4. The contractor shall exercise care during the construction and deconstruction of the required exterior poly tunnel. If products used to set up the tunnel or the interior containments leave a residue, the contractor shall be responsible for the removal of the residue immediately following receipt of the passing clearance air sampling results.
5. All poly used on this project shall be a minimum of 6-mil thickness and flame retardant (FR).
6. All interior containments shall have view windows installed at locations approved by the consultant.
7. All containments shall be built to accommodate the proper opening/closing function of the doors leading to each classroom. This includes ensuring any poly tunnel connecting the rooms to form containments are built in such a fashion the poly is not torn during the operation of the doors at the beginning and end of shifts.
8. All critical barriers shall be sealed prior to any installation of poly on the floors, walls or ceilings. They shall be covered with at least one layer of 6-mil FR poly and sealed with duct tape or an equivalent. As ceilings and walls are abated, the contractor shall assure that any additional critical barriers discovered are sealed immediately. Should Class I work be required, the requirements of this section will be required to change to meet or exceed its regulatory requirements.
9. Anything left inside a room where abatement is required shall be covered with at least one layer of 6-mil FR poly and sealed with tape which will provide an adequate seal but not damage the component. At no time shall components which cannot be cleaned be left exposed inside containment/regulated area during abatement.
10. If exterior tunneling is used to create containments, cover floors in the tunnels connecting the rooms with a minimum of two layers of 6-mil polyethylene sheeting. A distance of at least four (4) feet between seams is sufficient. DO NOT locate any seams at wall/floor joints. Floor sheeting shall extend at least twelve inches (12") up the sidewalls of the tunnel. Plastic shall be sized to minimize seams. Sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.
11. For Cal/OSHA class II, III or IV work, each interior containment shall have at a minimum, a two-stage decontamination chamber setup which meets the following conditions:

- Must be adjacent to the regulated area/containment for the decontamination of employees and their equipment used inside the regulated area/containment;
- Shall be built large enough to accommodate all workers donning PPE without being able to be seen by staff, students, or anyone else walking by.
- The chamber farthest away from the regulated area/containment shall be designed for employees to don PPE before entering the regulated area/containment; to don street clothes upon exiting the regulated area/containment; and storage of other necessary items of the employees which cannot enter the regulated area/containment.
- The chamber most adjacent to the regulated area/containment shall be designed for the person exiting the regulated area/containment to use water, soap, and towels to decontaminate any part of their bodies and PPE such as their respirator.
- Both chambers shall be of sufficient size to accommodate cleaning of equipment and removing PPE without the spreading of contamination beyond the area (as determined by visual accumulations).

12. All Class I containments shall have a three-stage decontamination chamber with an operational shower. The clean-room shall be built large enough to accommodate all workers donning PPE without being able to be seen by staff, students, or anyone else walking by.
13. Any floors requiring protection from being contaminated by asbestos during abatement shall be covered with two layers of 6-mil FR poly and shall extend at least 12” up the walls.
14. Any walls requiring protection from being contaminated by asbestos during abatement shall be covered with at least two layers of 6-mil FR poly.
15. The consultant must give final approval for containment/regulated area setups before abatement or disturbance of ACM commences.
16. All those entering the containment/regulated area must sign in on an entry/exit log that documents their entrance and exit times. This record is to also include lunch times and other breaks.

17. Containments shall be sufficient to prevent dust, debris and water from leaving the work area at all times. The contractor shall continually inspect the containment/regulated area for deficiencies or breaches. If any are discovered, all abatement activities shall halt immediately until the deficiencies are fixed or repaired satisfactorily. These incidents shall be reported to the consultant immediately.
18. Abatement shall not commence if waste bins are not onsite at the time abatement is ready to begin.
19. At no time shall asbestos-containing debris be allowed to remain exposed or accessible in waste bins at the end of shifts. The contractor shall locate their securable dumpster immediately adjacent to the containment/regulated area or as close as possible.
20. Setup for the removal of exterior materials shall consist of establishing a regulated area with asbestos caution/warning barrier tape that encompasses the entire work area where disturbance of the asbestos-containing materials will occur.
21. A wash station which includes water, soap, and towels shall be set up and used for hygiene purposes and to prevent the tracking out of asbestos debris. This wash station shall be built large enough that it allows for all workers exiting the regulated area to properly decontaminate themselves and their equipment without being seen by anyone walking by.
22. At no time shall asbestos-containing materials be allowed to exit the containment/regulated area without being single wrapped in six-mil FR poly, or double bagged and placed in a double lined dumpster with 6-mil poly. All waste shall be properly labeled immediately upon exiting containment and prior to being deposited into the waste bin.

ADDITIONAL EXTERIOR CONTAINMENT/REGULATED AREA REQUIREMENTS

23. Setup for the removal of exterior materials shall consist of establishing a regulated area with asbestos caution/warning barrier tape that encompasses the entire work area where disturbance of the asbestos-containing materials will occur.
24. A wash station which includes water, soap, and towels shall be set up and used for hygiene purposes and to prevent the tracking out of asbestos debris.
25. At no time shall asbestos-containing materials be allowed to exit the containment/regulated area without being single wrapped in six-mil flame retardant poly, or double bagged and placed in a double lined dumpster with 6-mil poly.

WORKER PROTECTION

The contractor shall provide respiratory protection as outlined in current Cal/OSHA regulations. However, at a minimum:

1. During the removal and detail cleaning of flooring, flooring mastics, roofing, roofing mastics , transite and other various namely non-friable ACM workers shall wear at a minimum, half-face negative-pressure respirator with P-100 HEPA cartridges. Should Class I materials be discovered and require disturbance, workers shall wear at a minimum, powered-air purifying respirators equipped with P-100 HEPA cartridges. Dual cartridges (P-100 & Organic Vapor) shall be utilized during mastic removal involving chemical stripping.
2. Quality disposable coveralls such as Tyvek-like suits shall be worn by all workers during all remediation activities on this project. Exceptions to this must be submitted to consultant in writing for review/approval.
3. Should personal air monitoring results not be received and provided to the consultant on the following week after being collected on the worker, the consultant reserves the right to require the workers to don PAPRs until personal air monitoring results are received.

NEGATIVE PRESSURE & HEPA FILTERED EQUIPMENT REQUIREMENTS

1. Challenge testing is required on equipment using HEPA filters (see Other Considerations above). Units arriving dirty or appearing to be contaminated shall be removed from the project site. Units must be positioned in the standard upright manner in which the manufacturer designed the equipment to operate.
2. The contractor shall ensure that sufficient negative air units are used to create a minimum air pressure differential of -0.030" and recorded on a manometer. Negative air units shall run continuously until

clearance has been achieved. All air filtration devices shall remain sealed when not functioning. All units shall discharge to the exterior of the building during abatement activities.

3. At the end of each shift, if containment cannot be secured while exhausting to the exterior of the building, the contractor shall put the negative air units in scrub mode overnight. At the beginning of each shift, the contractor shall re-establish negative pressure in each containment.

ASBESTOS ABATEMENT PROCEDURES

Abatement procedures for all ACM on this project:

1. Wet all ACM with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne-fiber concentrations immediately prior to the material being disturbed and during disturbance. Garden hoses are prohibited on this project.
2. The contractor shall use the following product to remove the asbestos-containing mastic throughout: CHEMSAFE CLEAR. See attached Safety Data Sheet for product.
3. Contractor shall remove all of the ceilings, associated contaminated insulation, including the wood slats that the 12” acoustic ceiling tiles are nailed to.
4. Transite flue pipes shall be removed only at an existing joint beneath roof so that the section of transite pipe at or above the roof remain undisturbed.
5. The ACM can be double bagged in poly bags. An acceptable alternative is disposal of ACM into a single poly bag which is placed into a leak-tight drum or burrito-wrapping for disposal.
6. Bags and/or burrito-wrapped ACM should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion.
7. Unless the roofing material is carried or passed to the ground by hand, it shall be lowered to the ground via covered, dust-tight chute, crane, or hoist. All waste shall be sufficiently wetted with amended water to prevent fiber release. If fiber release cannot be prevented, then the chute and bin must be within a negative pressure enclosure. **In no case shall roofing materials be dropped or thrown into bins or dumpsters from the roof.**
8. The abated roof area shall be HEPA vacuumed after roofing materials have been removed. Particular attention shall be directed at gaps between the wood members and in the rain gutters.
9. Any component contaminated by ACM and is non-porous (cleanable) shall be brought to the consultant for approval. Contingent upon approval of the component being non-porous, the contractor may setup a cleaning area for these components that is separate from the non-cleanable items. Immediately following the cleanable items being cleaned, the contractor shall notify the consultant of this activity and request a visual inspection for cleanliness. Following the receipt of a passing visual inspection from the consultant, the component may then be passed out of containment and discarded as construction debris or saved for the district to reuse.
10. Contractor shall generate only as much debris as they can bag and deposit into a waste bin at the end of an 8-hour shift.
11. After completion of all stripping work, surfaces from which asbestos-containing materials have been removed shall be wet-wiped or cleaned by some equivalent method to remove all visible residue. If it is quicker and more cost effective to discard the entire component as ACM, contractor must submit for approval prior to the job commencing to the consultant and building owner.
12. Asbestos-contaminated waste that has been containerized shall be transported out of the work area through the worker decontamination enclosure or through an approved pass-out arrangement.

PROHIBITED WORK PRACTICES

1. Uncontrolled releases. This is cause for stopping the project until modified work practices and containment that prevent these releases from occurring are designed and implemented.
2. Dry removal or dry disturbance of any kind.
3. Wet methods do not include the use of garden hoses.
4. Mechanical tools without HEPA vacuum attachment and HEPA vacuum properly attached according to manufacturer recommendation.

COMPLETION OF ASBESTOS ABATEMENT & CLEARANCE AIR SAMPLES

1. After final cleaning of any interior containment of a building intended to be reoccupied has been completed, a visual clearance inspection shall be performed by the consultant. Contractor personnel shall be present and available to address any deficiencies in cleaning. On the business day following visual clearance of the containment, a set of five clearance air samples shall be collected to be analyzed by Transmission Electron Microscopy (TEM) or Phase Contrast Microscopy (PCM).

2. Final clearance for re-occupancy using the TEM shall be contingent upon meeting AHERA criteria for response action completion of an average of 70 structures per square millimeter (70 s/mm^2) or less for the 5 samples collected inside the containment (40 CFR 763, Appendix A). In the event clearance air samples do not meet this re-occupancy criteria, the contractor shall be responsible for re-cleaning failed areas, and for costs associated with collection and analysis of additional clearance air samples ($1,400/per set of clearances) in accordance with the sampling protocol described above.

3. Where PCM clearance criteria is used, final clearance for re-occupancy shall be contingent upon meeting AHERA criteria for response action completion when the results of the samples collected show that the concentration of fibers for each of the five samples is less than or equal to a limit of quantitation for PCM (0.01 fibers per cubic centimeter (0.01 f/cm^3) of air).

4. After final cleaning of any exterior containment has been completed, a visual clearance inspection shall be performed by the consultant. The consultant will inspect work areas for visual signs of dust and debris related to the disturbance of asbestos. All surface areas must be clean. Residual dust, of any nature, that was generated on this project and found within or immediately outside the regulated area/containment, will be assumed to contain asbestos and must be re-cleaned. A passing visual inspection performed by the consultant on exterior containments/regulated areas will determine completion of work.

PERSONAL AIR MONITORING RESULTS FOR WORKERS

The contractor shall promptly post and provide a copy of worker personal air monitoring results in compliance with Cal/OSHA requirements to the consultant. Results of worker air monitoring shall be turned in to the consultant each Tuesday for the previous week air samples.

ASBESTOS DISPOSAL

Non-asbestos containing materials which are removed from containment before any asbestos-containing materials are disturbed, may be discarded as construction debris.

Non-friable ACM or materials contaminated by non-friable ACM removed by non-mechanical or hand methods shall be discarded as non-friable, non-hazardous asbestos-containing waste and manifested accordingly. ACM waste with less than 1% asbestos shall be discarded as non-friable, non-hazardous asbestos-containing waste and manifested accordingly.

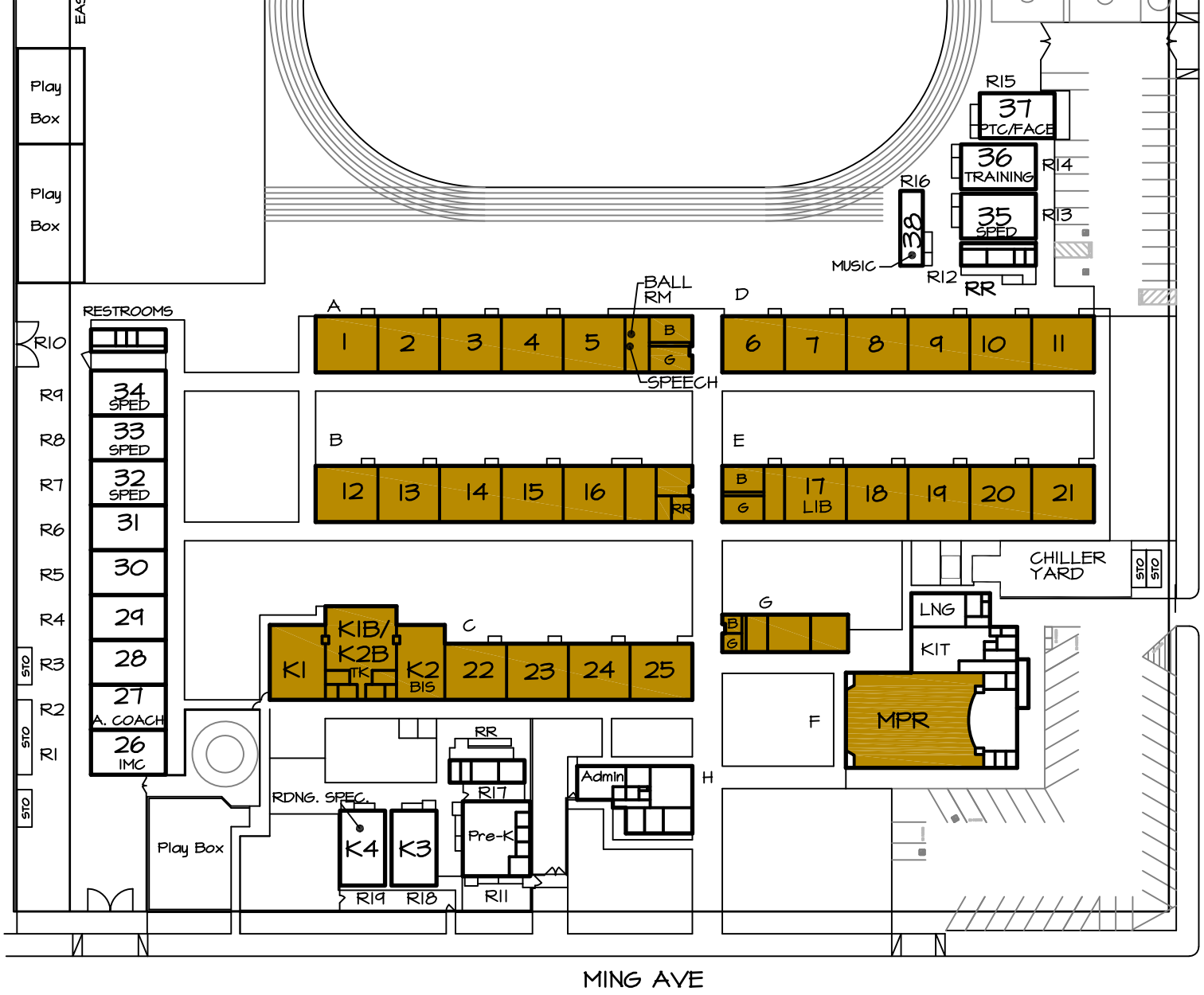
Friable ACM, materials contaminated by friable ACM, and non-friable materials removed by mechanical means shall be discarded as friable, hazardous asbestos-containing waste and manifested.

The contractor shall notify the consultant and the District representative at least **24** hours in advance of when the manifest must be signed.

Attachments:

A. Site & Building Maps
B. Submittal Requirements
C. Safety Data Sheets for Chemsafe Clear
D. Asbestos Inspection Report by Room

Attachment A – Site & Building Maps



WAYSIDE ELEMENTARY SCHOOL
1000 MING AVE.

REMOVE PERMANENT ROOMS FROM CHILLER SYSTEM. INSTALL NEW INDIVIDUAL WALL OR ROOF UNIT

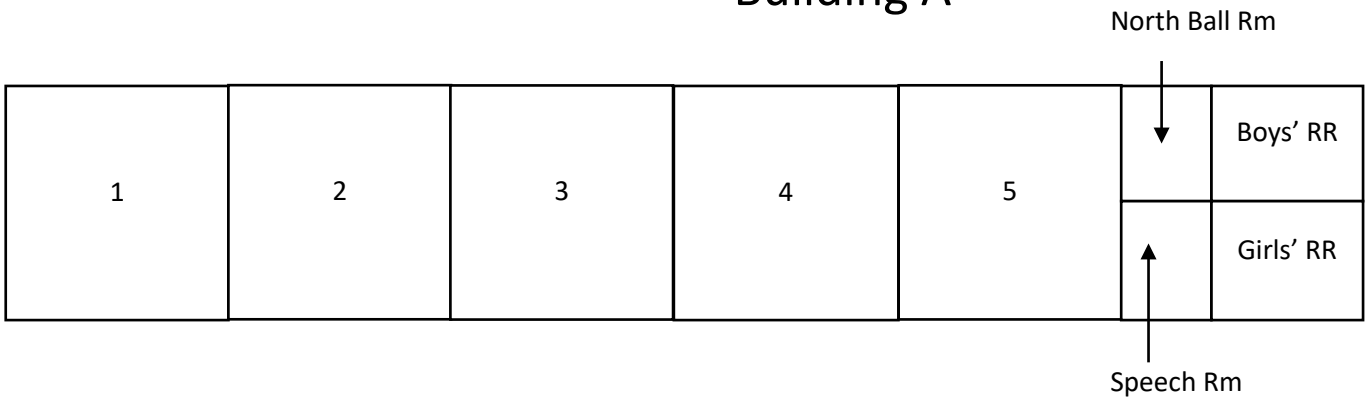
NORTH

SITE PLAN

Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

Building A



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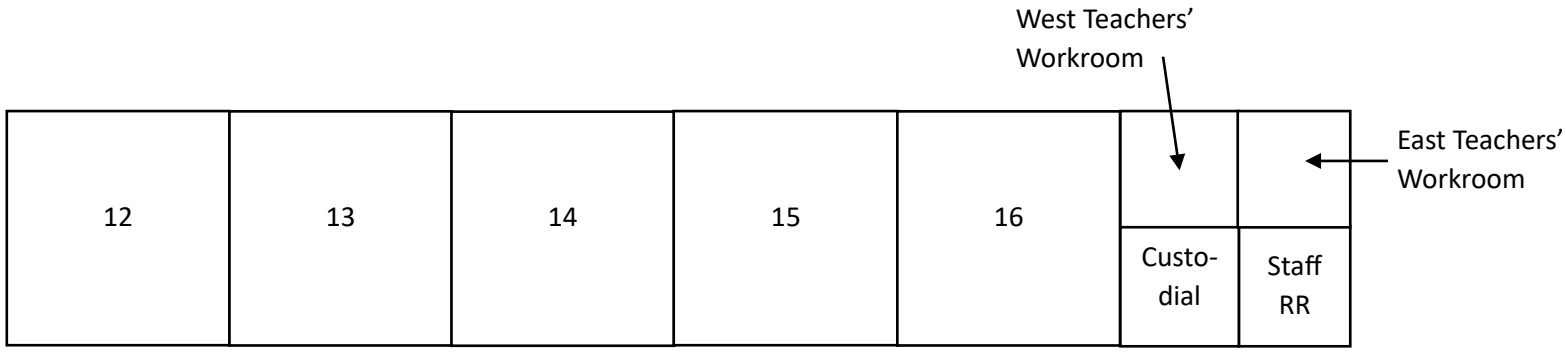
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

Building B



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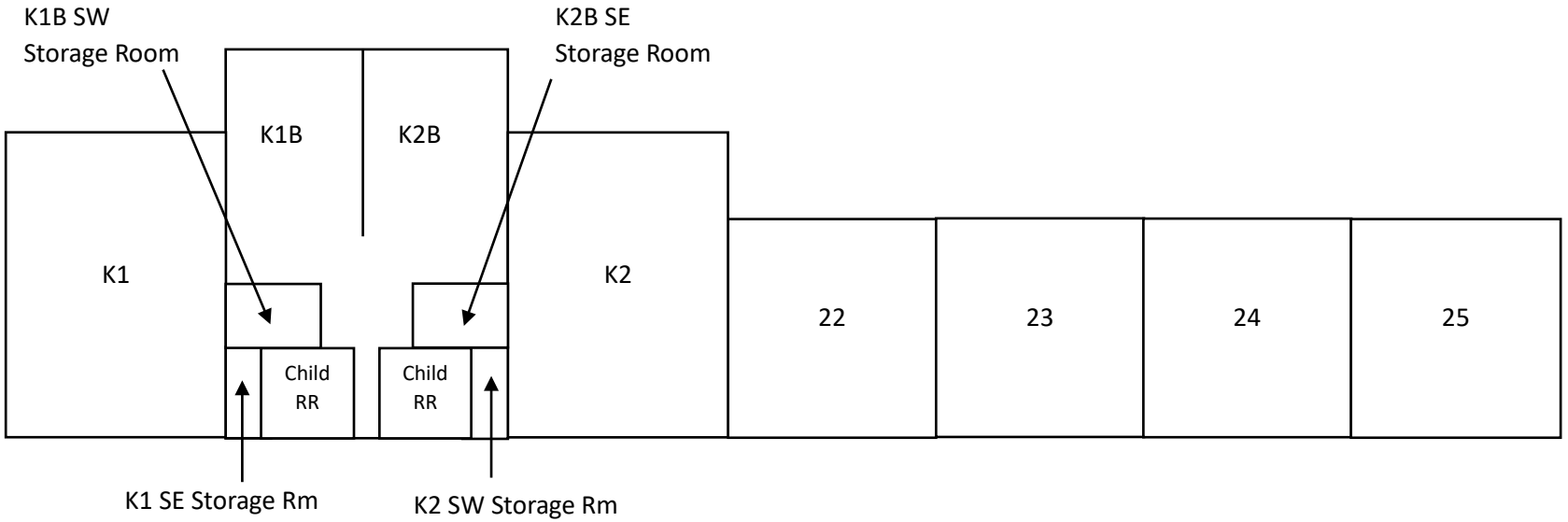
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

Building C



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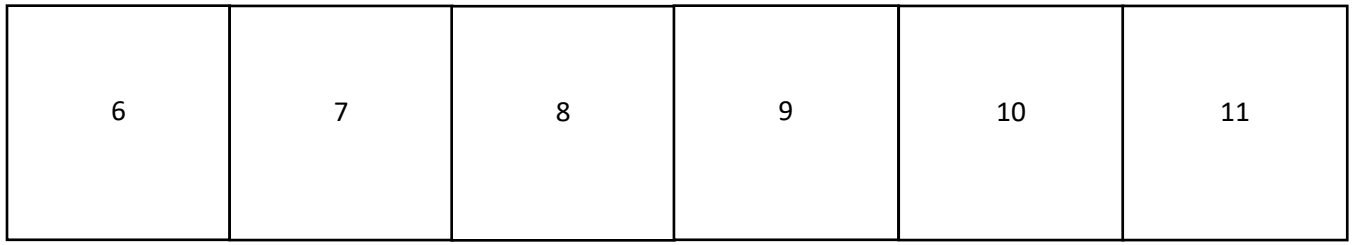
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

Building D



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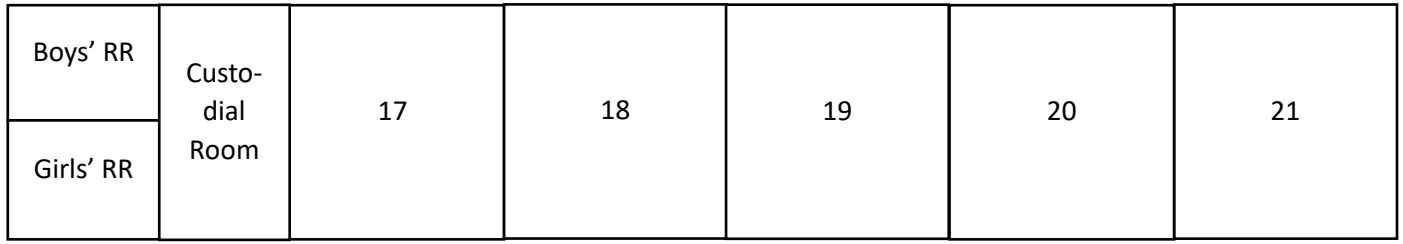
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

Building E



Not Drawn To Scale

Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

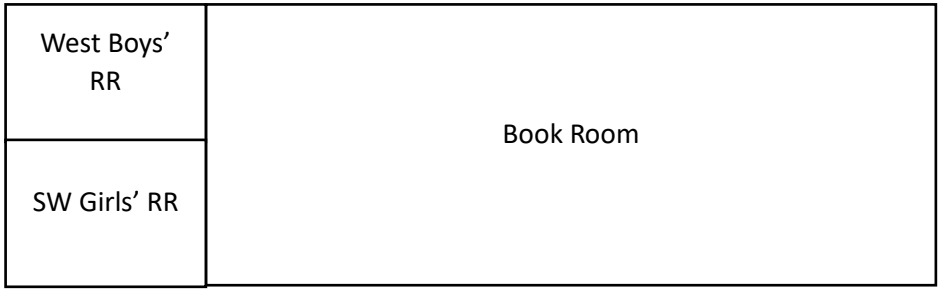
Building F

Not Drawn To Scale

Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023 Building Maps

N

Building G



Not Drawn To Scale

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Attachment B – Submittal Requirements

Asbestos Submittal Requirements

Note: not all of the items listed below are applicable for every project. Only the items applicable are required to be included in the submittal packet.

Prestart Submittals

1. Contractor's license(s)
    a. CSLB license with asbestos certification
2. DOSH registration
3. Notifications
    a. Appropriate local EPA enforcement agency for the job site location.
    b. Cal/OSHA asbestos notification
    c. Equipment rented
        i. Proof the rental company has been made aware the rented equipment will be used for asbestos related work.
4. Site specific safety/emergency plan
    a. This must include, but is not limited to, the nearest hospital's phone number and address;
    b. Local police department phone number and address;
    c. Title, name and phone number of the contractor's contact whom should be contacted in the event of an emergency.
5. Contractor worker documentation for all workers on-site
    a. Proof of AHERA training
    b. Proof of Medical approval to wear a respirator
    c. Respirator fit test
6. Contractor's respiratory protection program
7. Challenge testing certificates
8. Negative exposure assessment (if requesting to don lesser PPE than specified in the SOW)
9. Safety data sheets for all hazardous materials (as defined by Cal/OSHA)
10. Waste Disposal
    a. Paperwork for landfill proving the landfill will accept the waste
    b. Proof of licensed waste hauler and company for hazardous waste
    c. Waste characterization of lead waste
    d. Manifest for all types of waste to be generated

Submittals Required During the Project

1. Daily copies
    a. Safety meeting (if held daily)
    b. Worker roster of all employees onsite – regardless of training
    c. Entry/exit log for employees entering/exiting containment/regulated area
    d. HEPA filter change log
2. Weekly
    a. Safety meeting
    b. Worker personal air monitoring
    c. Area air monitoring

Submittals Required at the Conclusion of the Project

1. Contractor air monitoring & laboratory results (refer to the SOW for required frequency)
2. Any other paperwork as requested by the Consultant or Building Owner

Attachment C – Safety Data Sheet

ISSUE DATE: 1/15/1990 REVISION DATE: 4/15/2015

1. PRODUCT AND COMPANY IDENTIFICATION

GHS PRODUCT IDENTIFIER:
TRADE NAME; CHEMSAFE CLEAR (CARB COMPLIANT)

OTHER MEANS OF IDENTIFICATION:

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: Mastic Removal

SUPPLIER'S DETAILS:

Aramsco
A SAFEGUARD INDUSTRIAL COMPANY
1480 GRANDVIEW AVE.
THOROFARE, NJ 08086
(800)767-6933

EMERGENCY PHONE NUMBER:

COMPANY PHONE NUMBER: (800)767-6933
(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION:

GHS CLASSIFICATION SCALE: 1=SEVERE HAZARD, 4=SLIGHT HAZARD)

ASPIRATION HAZARD	CATEGORY 1
SERIOUS EYE DAMAGE IRRITATION	CATEGORY 2A

LABEL ELEMENTS:

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

Causes serious eye irritation
May be fatal if swallowed and enters airways

HAZARD SYMBOLS:

PRECAUTIONARY STATEMENTS:

Keep out of reach of children
Wash hands, face and all exposed skin areas after handling.
Wear protective gloves/protective clothing/eye protection/face protection

PRECAUTIONARY STATEMENTS (RESPONSE):
IF SWALLOWED: Immediately call a poison center or doctor or physician. Do not induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

PRECAUTIONARY STATEMENTS (STORAGE):
Store locked up.

PRECAUTIONARY STATEMENTS (DISPOSAL):
Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

OTHER HAZARDS:
Repeated or prolonged exposure can cause skin dryness or cracking.

3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
DISTILLATES, PETROLEUM HYDROTREATED, LIGHT	64742-47-8	PROPRIETARY
BUTOXYDIGLYCOL	112-34-5	PROPRIETARY

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

4. FIRST AID MEASURES

INGESTION: If swallowed, wash out mouth with water. Do not induce vomiting, this product is an aspiration hazard. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.

INHALATION: Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical attention/advice.

Most Important Symptoms and Effects, Acute and Delayed

INGESTION: Symptoms may include diarrhea, gastric pain, and vomiting.
SKIN CONTACT: Symptoms may include redness, dryness and cracking of skin.
INHALATION: Not expected; however, symptoms may include irritation of respiratory tract and/or CNS symptoms such as dizziness, confusion, drowsiness or fatigue.
EYE CONTACT: Symptoms may include stinging, tearing, redness and blurred vision.

Indication of immediate medical attention and special treatment needed, if necessary.
Treat Symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use fire extinguishers suitable for surrounding fire, possibly consisting of water spray, dry chemical, carbon dioxide, or foam.
Unsuitable extinguishing media- Do not use water jet.

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst. Material will burn in a fire. Flash point is over 200F. Material will emulsify and not directly float with water spray and emulsion could aid in not exacerbating fire.

Hazardous thermal decomposition products: carbon monoxide and CO2

Special protective actions for fire-fighters: Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Avoid breathing vapor or mists. Put on appropriate personal protective equipment. Wear appropriate respirator when ventilation is inadequate.

.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

Environmental precautions: Avoid dispersal of spilled material with soil, waterways, drains and sewers. See section 12 for additional ecological information.

Methods and materials for containment and cleaning up.

Small spill: Stop leak if without risk. Move containers from the spill area Absorb with an inert dry non combustible material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry non combustible material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Safe Handling Advice: Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Emptied containers can contain product residues and remain hazardous. Do not reuse, flame cut, braze or weld container and observe all sds information around empty containers and dispose of in accordance with federal, state and local regulations.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

Conditions for safe storage including any incompatibilities:

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Keep container tightly closed when not in use. Do not store in unlabeled containers.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters Occupational Exposure Limits

Ingredient Identity	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butoxydiglycol 112-34-5	TWA 10ppm		

Distillates, Petroleum Hydrotreated, Light 64742-47-8 TWA:skin absorption 200mg/m3 (as total hydrocarbon vapor) 8 hours

Appropriate Engineering Controls

Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and air concentrations below occupational exposure standards.

Individual protection measures, such as personal protective equipment. (PPE)

Eye/Face Protection: Wear approved tightly sealed safety goggles

Skin & Body Protection: Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures cannot always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

Respiratory Protection: If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid
Odor: near odorless
Odor threshold: not available
pH: not applicable
Melting Point/Freezing Point: -56F
Initial Boiling Point/Range: 344F-473F
Flash Pt: >200F lowest ingredient, does not sustain combustion
Evaporation Rate: <1 (butyl acetate=1)
Lower explosive limits: .6%Aliphatic Solvent
Upper explosive limits: 5.5%Aliphatic Solvent
Vapor Pressure: meets CARB guidelines
Vapor Density: 4.5-5 (air=1)
Relative Density: .84
Solubility in water: Emulsifies
Partition coefficient: not applicable
Auto ignition temp: >428F
Decomposition Temp: not available
Viscosity: pourable liquid

10. STABILITY AND REACTIVITY

Reactivity: Stable in normal ambient temperature and pressure

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: not under normal conditions of storage and use.

Conditions to Avoid: Open flames, sparks

Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified,

Skin corrosion irritation: not classified,

Serious Eye damage: classified, Category 2, Causes serious eye irritation, Butoxydiglycol 112-34-5

Sensitization: Not classified,

Mutagenicity: Not classified,

Carcinogenicity: Not classified

Reproductive Toxicity: Not Classified

Teratogenicity: Not Available

Specific target Organ Toxicity (single exposure)
Not classified

Specific target Organ Toxicity (repeated exposure):
Not classified

Aspiration Hazard:
Distillate petroleum hydrotreated, light 64742-47-8 , Aspiration Hazard Category 1

Information on the likely routes of exposure:
Ingestion: May be harmful if swallowed. May be fatal if swallowed and enters airways.
Inhalation: Do not breathe vapors or mists.
Skin: May be harmful in contact with skin.
Eye: Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics
Ingestion: See section iv, most important symptoms and effects, acute and delayed.
Inhalation: See section iv, most important symptoms and effects, acute and delayed.
Skin: See section iv, most important symptoms and effects, acute and delayed.
Eye: See section iv, most important symptoms and effects, acute and delayed.

Delayed and immediate effects and also chronic effects from short and long term exposure.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis
Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

Numerical measures of Toxicity
Not Available

12. ECOLOGICAL INFORMATION

Toxicity:

Ingredient name	Result	Species	Exposure
Distillate Petroleum, Hydrotreated, light	Chronic NOEL 0.48 mg/l	Daphnia	21 days

Persistence and degradability:
Distillate Petroleum: Biodegradability-inherent Hydrotreated

Butoxydiglycol 112-34-5: readily biodegradable
Bioaccumulation Potential:
Not expected to bioaccumulate

Mobility in Soil:
No data

Other adverse Effects:
No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local regulations.

14. TRANSPORTATION INFORMATION

DOT: NOT REGULATED
IATA: NOT REGULATED
IMDG: NOT REGULATED

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: All ingredients are listed or exempted with TSCA.

SARA 302/304: no products were found.
SARA 311/312: acute health hazard

Ingredient	%	FIRE HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
Distillate Petroleum, Hydrotreated	80-95	YES	NO	NO	NO	NO
Butoxydiglycol 112-34-5	PROPRIETARY				YES	YES

SARA 313: butoxydiglycol, <12%
STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Distillate Petroleum Hydrotreated. 64742-47-8	No	No	No	No
Butoxydiglycol 112-34-5	No	Yes	Yes	yes

California Prop 65: none known

16. OTHER INFORMATION

HMIS RATING: HEALTH (1) FIRE (1) REACTIVITY (0)
4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

NOTICE TO READER:
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. The information on this sds was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Users are advised to confirm in advance of need, that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the sds. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Attachment D – Asbestos Inspection Report by Room

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Campus Wide

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38	38A-B	Asphalt		N	n/a

Building: Covered Walkways Throughout Campus

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Ceilings	35		Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Chiller Yard **Room Name:** Chiller Yard

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	-		CMU		n/a	n/a
Pipes	47	47A-C	Paper jacketed fiberglass pipe insulation		N	n/a
	NOTE		Mostly concealed behind metal jacketing			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building A - Classrooms 1-5 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Classroom 1 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03B	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04A	Plaster - sanded finish		N	n/a
Walls	5	05A	Tackboards & glue	Plaster	N	n/a
Sink	6	06D	Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07A	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Classroom 2 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01B	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08D	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Classroom 3	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02A	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03C	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04I	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07C	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Classroom 4	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08A	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Classroom 5	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Speech Room	**Rm Ft²:**	208
East of Rm 5 & West of Girls RR		**Room Dimensions:**	L=13 W=16 H=9		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building:	Building A - Classrooms 1-5	**Room Name:**	Girls' Restroom	**Rm Ft²:**	352
East of Rm 5		**Room Dimensions:**	L=22 W=16 H=		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9	09B	Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10	10B-C	Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4	04J	Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Boys' Restroom **Rm Ft²:** 352
East of Rm 5 **Room Dimensions:** L=22 W=16 H=

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building A - Classrooms 1-5 **Room Name:** North Ball Room **Rm Ft²:** 208
East of Rm 5 - north side of bldg **Room Dimensions:** L=16 W=13 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	-		Concrete - bare & exposed		n/a	n/a
BB	-		Wood		n/a	n/a
Walls	-		Plywod on lower 4' of walls		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	-		Plywood - painted		n/a	n/a
Door	11		Fire Door - label painted over		Y	Y
	NOTE		Assumed. Test before disturbing or removing.			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38	38A	Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35	35A,G	Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28A-B	Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36	36A	White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building B - Classrooms 12-16 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Classroom 12 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	12	12B	Baseboard & glue - 4" lt green	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08F	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building B - Classrooms 12-16	**Room Name:**	Classroom 13	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04C	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07E	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Classroom 14 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	12	12A	Baseboard & glue - 4" lt green	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06B	Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07F	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Unfinished drywall	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	25	25A	Unfinished drywall, with tape & joint compound	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	diagonal sheathing	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building B - Classrooms 12-16	**Room Name:**	Classroom 15	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02D	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04F	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08E	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Classroom 16 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01C	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Custodial Room **Rm Ft²:** 143
East of Rm 16 **Room Dimensions:** L=13 W=11 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	-		Concrete - bare & exposed		n/a	n/a
BB	-		Wood		n/a	n/a
Walls	4	04B	Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26	26C	Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
NOTE			ATTIC ACCESS			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** East Teachers' Workroom **Rm Ft²:** 288
Inside East Teachers' Workroom **Room Dimensions:** L=18 W=16 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	13		Floor tile & glue 12" blue/grey oatmeal	Concrete	N	n/a
BB	14	14A	Baseboard & glue 4" dk grey	Wood	N	n/a
BB	-		Wood		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	15	15A	Lay-in panels - 2' x 4' variety (fiss/gouge) various ages	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Staff Restroom **Rm Ft²:** 112
East of Rm 16 **Room Dimensions:** L=14 W=8 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	16	16A	Sheet flooring & glue - grey mosaic pattern	Concrete	N	n/a
BB			None			
Walls	17	17A	Plaster - smooth finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building B - Classrooms 12-16 **Room Name:** West Teachers' Workroom **Rm Ft²:** 640
adjacent to CR 16 **Room Dimensions:** L=32 W=20 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	13	13A	Floor tile & glue 12" blue/grey oatmeal	Concrete	N	n/a
BB	14		Baseboard & glue 4" dk grey	Wood	N	n/a
BB	-		Wood		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5	05C	Tackboards & glue	Plaster	N	n/a
Ceiling	15		Lay-in panels - 2' x 4' variety (fiss/gouge) various ages	Plywood	N	n/a
Door	11		Fire Door - label painted over		Y	Y
	NOTE		Assumed. Test before disturbing or removing.			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls & Soffits	35		Exterior stucco, painted & vapor barrier		N	n/a
	NOTE		No other areas of stucco contain asbestos on this building. See the limited location of the asbestos-containing stucco below.			
Exterior Soffit PATCH ONLY	35	35B	Exterior stucco, painted & vapor barrier - 1% CH in texture coat		Y	Y

Windows	28	28C-D	Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

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1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Roof	37	White coated foam on silver paint on penetration mastic	Y	N
	NOTE	Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed		
	NOTE	On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.		

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material			
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Classroom K1 **Rm Ft²:** 960

Room Dimensions: L=40 W=24 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23	23A	Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K1 SE Storage RM **Rm Ft²:** 36
Located inside K1 - SE corner **Room Dimensions:** L=6 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	K1B		**Rm Ft²:**	680
		Room Dimensions:	L=34	W=20	H=9/12	

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)		N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K1B SW Storage Rm **Rm Ft²:** 72
Room Dimensions: L=12 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	Diagonal Sheathing	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K1B Child RR **Rm Ft²:** 80
Room Dimensions: L=10 W=8 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	K2B		**Rm Ft²:**	680
		Room Dimensions:	L=34	W=20	H=9/12	

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K2B SE Storage Rm **Rm Ft²:** 72
Room Dimensions: L=12 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	diagonal sheathing	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K2B Child RR **Rm Ft²:** 80
Room Dimensions: L=10 W=8 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Classroom K2 **Rm Ft²:** 960

Room Dimensions: L=40 W=24 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3	03E	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat		
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K2 SW Storage RM **Rm Ft²:** 36

Room Dimensions: L=6 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slats	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 22	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04K	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	**c2**		
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slats	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	Diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 23	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02E	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22	22B	Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06E	Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 24	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01E	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 25	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28E-F	Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36	36D	White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building D - Classrooms 6-11 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	This		
			material exists on and inbetween the floor joists of this space.			
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 6 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02B	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03D	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06C	Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08B	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24	24A	Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building D - Classrooms 6-11	**Room Name:**	Classroom 7	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01A	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04G	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07B	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 8 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04H	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 9 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5	05D	Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08C	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 10 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03A	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07D	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26	26A	Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24	24B	Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 11 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04E	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28G-H	Exterior window putty		N	n/a
Eaves	35	35C	Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building E - Classrooms 17-21 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Boys' Restroom **Rm Ft²:** 286
West of Room 17 **Room Dimensions:** L=22 W=13 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9	09A	Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10	10A	Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building E - Classrooms 17-21 **Room Name:** Girls' Restroom **Rm Ft²:** 286
West of Room 17 **Room Dimensions:** L=22 W=13 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Custodial Room **Rm Ft²:** 30
West of Room 17 **Room Dimensions:** L=30 W=10 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	-		Concrete - bare & exposed		N	n/a
BB			None		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4	04D	Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Classroom 17 (Lib) **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	18	18A	Carpet squares & glue - multi bright colored	Concrete	N	n/a
Floor	19	19A	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	20	20A	Baseboard & glue 4" black		N	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	21	21A	Drywall, smooth texture		N	n/a
	NOTE		Confirmed at north and west walls.			
Walls	5		Tackboards & glue	Plaster	N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26	26B	Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08G	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building E - Classrooms 17-21	**Room Name:**	Classroom 18	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01D	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22	22A	Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04M	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07G	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Classroom 19 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06A	Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08H	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building E - Classrooms 17-21	**Room Name:**	Classroom 20	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02C	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07H	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building E - Classrooms 17-21	**Room Name:**	Classroom 21	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04L	Plaster - sanded finish		N	n/a
Walls	5	05B	Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28I-J	Exterior window putty		N	n/a
Eaves	35	35D	Exterior stucco, painted		N	n/a
Roof	36	36B	White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building F - Multi-Purpose Building **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	This		
			material exists on and inbetween the floor joists of this space.			
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building F - Multi-Purpose Building **Room Name:** Representative of ceilings throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Plaster	N	n/a
Ceiling	27		Plaster, Rough Finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building F - Multi-Purpose Building **Room Name:** Main Dining Room **Rm Ft²:** 3,600

Room Dimensions: L=72 W=50 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	13	13B	Floor tile & glue 12" blue/grey oatmeal	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue		N	n/a
Walls	4	04N	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue		N	n/a
Ceiling	7	07I	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Plaster	N	n/a
Ceiling	27	27A	Plaster, Rough Finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24	24C	Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building F - Multi-Purpose Building **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28		Exterior window putty		N	n/a
Eaves	35	35F	Exterior stucco, painted		N	n/a
Roof	36	36C	White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building G - Book Room Building **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	This material exists on and inbetween the floor joists of this space.		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building G - Book Room Building **Room Name:** West Boys' Restroom **Rm Ft²:** 140
Room Dimensions: L=14 W=10 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9	09C	Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building G - Book Room Building **Room Name:** SW Girls' Restroom **Rm Ft²:** 190
Room Dimensions: L=19 W=10 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building G - Book Room Building **Room Name:** Book Room **Rm Ft²:** 798
Room Dimensions: L=42 W=19 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23	23B	Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3	03F	Baseboard & glue 3" & 4" blue		N	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building G - Book Room Building **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28K-L	Exterior window putty		N	n/a
Eaves	35	35E	Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building H - Administration **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND This material exists on and inbetween the floor joists of this space.			
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building H - Administration **Room Name:** Representative of ceilings throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Walls	4		Plaster - sanded finish		N	n/a
Walls	29	29A	Drywall, orange-peel texture		N	n/a
Walls	5		Tackboards & glue		N	n/a
Ceiling	15	15B-C	Lay-in panels - 2' x 4' variety (fiss/gouge) various ages	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	30	30A	Acoustic ceiling tiles 12" random pinhole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building H - Administration **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28		Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R13 (CR 35) & R14 (CR 36) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	42	42A	Unfinished drywall (no T&J) with tackboard glue		N	n/a
Ceiling	41	41B	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R13 (CR 35) & R14 (CR 36) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R15 (CR 37) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	44	44A	Unfinished drywall (no T&J) with tackboard glue		N	n/a
Ceiling	43	43A	Lay-in panels 2'x4' fiberglass plastic jacketed	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R15 (CR 37) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R16 (CR 38) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		exposed studs above ceiling panels		n/a	n/a
Ceiling	41	41A	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R16 (CR 38) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R12 Restrooms **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		exposed studs above ceiling panels		n/a	n/a
Ceiling	45	45A	Lay-in panels 2'x4' vinyl jacketed drywall	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R12 Restrooms **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		N	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R10 Restrooms **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		exposed studs above ceiling panels		n/a	n/a
Ceiling	40	40A	Lay-in panels 2'x4' vinyl jacketed drywall	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R10 Restrooms **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	46	46A	Stucco finish over cement board		N	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R1-R9 (CRs 26-34) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	33	33A-C	Unfinished drywall (no T&J) with tackboard glue		N	n/a
Ceiling	34	34A-B	Lay-in panels 2'x4' gouge pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R1-R9 (CRs 26-34) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	39	39A-C	Stucco finish over cement board		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R18 (K3) & K19 (K4) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		Fiberglass insulation above ceiling on walls		n/a	n/a
Ceiling	31	31B	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R18 (K3) & K19 (K4) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R11 - Pre K **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		Fiberglass insulation above ceiling on walls		n/a	n/a
Ceiling	31		Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R11 - Pre K **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R17 - Restroom Portable **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Walls	32	32A	unfinished drywall (no T&J)		N	n/a
Ceiling	31	31A	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R17 - Restroom Portable **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

LEAD REMEDIATION SCOPE OF WORK

Site Information:
Wayside Elementary School – HVAC Replacement
1000 Ming Avenue, Bakersfield, CA 93307

Prepared for:
Bakersfield City School District
1300 Baker Street, Bakersfield, CA 93305
(661) 631-5885

Prepared by:
Kristy Yowell, CAC 09-4500 / CDPH 4640
YES Environmental, Inc. (YES, Inc.)
YES, Inc. Project Number 23YES-117
April 10, 2024

This SOW should be printed in color.

LEAD SCOPE OF WORK

Wayside Elementary School – HVAC Replacement

PURPOSE OF PROJECT

In order for Bakersfield City School District to modernize portions of buildings throughout the campus, lead-containing and lead-based materials will either be removed or disturbed, and the work must be done using lead-safe work practices. The contractor is responsible for field verifying their own measurements for bidding, notification, waste characterization, or any other purpose.

This Scope of Work should be used in conjunction with all Federal, State and local codes. *The information provided in this section is intended to assist the contractor in determining the extent of work; however, this information does **not** replace or supersede any direction or description of work as presented in the plans and specifications for this project.* If YES, Inc.'s scope of work and the plans and specifications differ, the contractor shall be obliged to bring any discrepancies to the attention of the architect/owner's representative prior to bidding the project via submission of a request for information to the architect.

DEFINITIONS

Abatement Activities: precleaning of jobsite, setup of containment/regulated area, removal of asbestos-containing materials and final cleaning inside containment/regulated area in preparation for post abatement clearance air sampling or completion of work visual.

Asbestos-Containing: material containing any detectable amount of asbestos. Acronym ACM.

Lead-Containing: material containing any detectable amount of lead. Acronym LCP or LBP.

Remediation Activities: precleaning of jobsite, setup of containment/regulated area, removal or disturbance of any sort of lead-containing materials and final cleaning inside containment/regulated area in preparation for job completion visual inspection by consultant.

Contractor: Remediation contractor, abatement contractor or any trade qualified to conduct the work described in this Scope of Work.

Consultant: BCSD's environmental consultant.

Types of Lead Materials

Types	Definition	Lead Content Standard	
LBP	Lead-based paint, coating or material	By XRF: By Paint Chip:	1mg/cm^2 or greater 0.5 wt%; or 5,000 ppm or greater
LCP	Lead-containing paint, coating or material	By XRF: By Paint Chip:	<1mg/cm^2 <0.5 wt%; or 5,000 ppm
ND	No lead detected	By XRF: By Paint Chip:	Requires paint chip confirmation <reporting limit

Summary of XRF Findings

Material Description	Locations See XRF table for specific testing information	Lead Type & Result
All interior & exterior window sills, frame, windows, vertical support poles, trims, and any other painted component to the window systems NOTE: Various colors throughout.	Buildings A-H	LBP ≥1.00 mg/cm^2

Summary of XRF Findings		
Material Description	**Locations** See XRF table for specific testing information	**Lead Type & Result**
All interior painted wood cabinets NOTE: Various colors throughout	Buildings A-H	LBP ≥1.00 mg/cm^2
All interior and exterior wood wall trims NOTE: Various colors throughout	Buildings A-H	LBP ≥1.00 mg/cm^2
All interior wood walls NOTE: Various colors throughout	Buildings A-H	LBP ≥1.00 mg/cm^2
All exterior vertical metal support poles at covered walkways throughout NOTE: Various colors throughout	Buildings A-H	LBP ≥1.00 mg/cm^2
All exterior metal fire extinguisher cabinets NOTE: Various colors throughout	Buildings A-H	LBP ≥1.00 mg/cm^2
All exterior wood door, jambs, trims, stops and door frame components NOTE: Various colors throughout	Buildings A-H	LBP ≥1.00 mg/cm^2
All blue painted exterior walkway striping	Buildings A-H = on the floor of the covered walkways throughout	LBP ≥1.00 mg/cm^2
All other painted components on campus – interior and exterior	Throughout all of the buildings inspected	LCP 0.00-0.99 mg/cm^2

ADDITIONAL LEAD INFORMATION

Contractors, whose employees work at this site, are required to assess if their work will be subject to the requirements of the Cal/OSHA lead construction standard (CCR Title 8 § 1532.1). Cal/OSHA standards are designed to regulate and enforce on-the-job worker safety. Employers are required by law to ensure that employees are not exposed to airborne lead levels which exceed the permissible exposure limit (PEL). The standard requires worker exposure monitoring, medical surveillance, training, special work practices, etc.

Each contractor/employer who bids and/or performs work at the site will need to assess potential lead exposure to employees performing their particular scope of work. Contractors who perform work at this site may need to obtain additional data (beyond the data presented in this report) during their assessment and Cal/OSHA compliance planning. Individual contractors/subcontractors should be allowed access to the project to obtain any needed data (samples, consultation, etc.) to complete their employee exposure assessment.

Any work performed at the site where LBP or LCP is likely to be disturbed should be performed by a contractor trained and qualified to perform lead-related construction work. Any work that exceeds Cal/OSHA's permissible exposure limit or is performed to remediate a lead hazard must be conducted by CDPH certified personnel.

LEAD REGULATIONS FURTHER EXPLAINED

The lead work described in this Scope of Work is designed to assist the prime contractor and his sub-contractors to meet the requirements of the California lead standard for the construction industry, CCR Title 8, Section 1532.1. The requirements in this SOW are NOT intended to permanently eliminate lead-based paint or lead paint hazards. The results of the lead inspection indicate the materials anticipated to be disturbed contain lead-containing paint, not lead-based paint. Therefore, CDPH form 8551 which addresses Abatement of Lead Hazards shall not be submitted on this project.

Should changes to any of the following occur, it may result in the requirement of form 8551 to be submitted to CDPH:

- Work practices demonstrated by the remediation contractor; or
- SOW is revised in such a way which meets the requirements for abatement.

If a lead hazard is created, the contractor creating the lead hazard shall be responsible for all costs associated with clean-up and compliance with Title 17.

MORE ON ASBESTOS & LEAD LOCATIONS, CONTENT & TYPE

Please see the attached initial asbestos and lead inspection report following this scope of work for identification of materials suspect to contain asbestos that have been sampled by YES, Inc. If any materials other than those identified in this scope of work and initial inspection are discovered and may be disturbed, work must be stopped and the project must be re-evaluated.

Of the materials being removed or disturbed, the contractor shall then refer to YES, Inc.'s initial inspection report and Scope of Work to determine the specific materials that contain asbestos and/or lead and those that have been determined to be free of asbestos and/or lead.

The initial inspection report does **not** denote materials to be removed; it reports whether materials present contain asbestos and/or lead. Contractor should refer to the architectural drawings and specifications for extent of work and locations.

NOTIFICATIONS

The contractor shall be responsible for the submission of all notifications triggered by lead disturbance. This includes, but is not limited to, the renovation or demolition permit release form to San Joaquin Valley Air Pollution Control District, Cal/OSHA Asbestos Notification and the Cal/OSHA Lead Work Pre-Job Notification.

SUPERVISOR & WORKER TRAINING REQUIRED

Workers and supervisors disturbing components with lead-containing must have, at a minimum, action-level lead training as described by Cal/OSHA 8 CCR 1532.1.

In addition, any contractor disturbing lead-based painted components on these structures must be RRP certified by the EPA as a company, and all individuals performing activities that disturb painted surfaces on behalf of the firm are either certified renovators or have been trained by a certified renovator. All renovations performed by the firm must be performed in accordance with the work practice standards of the Lead-Based Paint Renovation, Repair, and Painting Program in accordance with 40 CFR Part 745 Subpart E.

CAL/OSHA LEAD IN CONSTRUCTION STANDARD

The requirements within this scope of work (SOW) are designed to assist the remediation contractor to meet the requirements of the Cal/OSHA lead standard for the construction industry, Title 8 CCR Section 1532.1. The more stringent requirement between this SOW and Title 8 CCR Section 1532.1 shall take precedence.

PRE-JOB SUBMITTAL REQUIREMENTS

A hard copy of the remediation contractor's pre-job submittal packet shall be submitted to YES, Inc. and:

1. Include all of the items listed in the attached Submittal Requirements;
2. Be provided to and approved by YES, Inc. prior to the start of work by the remediation contractor.
3. Manifests shall be submitted to the project manager on the first day of the project for review, and also for final approval prior to waste removal from the job site.
4. Double sided copies are not acceptable.
5. Delays in providing the required submittals may affect the start of the project.
6. Electronic submittals will be accepted for viewing and approval purposes only.

OTHER CONSIDERATIONS

Item	District Provided	Contractor Must Provide	Not Applicable / Required
Water	X		
Power	X		
Removal of Items to be saved	X		
Removal & Disposal of Items Remaining in Work Area		X	
Safety & Security of Equipment		X	
Challenge testing of HEPA filtered equipment		X	

ALLOWABLE FORMS OF COMMUNICATION

The contractor shall establish a means of communication between the supervisor and workers inside the containment/regulated area which includes two-way radios or equivalent. At no time will yelling, whistling or banging on containment, walls or on the decontamination chambers be allowed as a form of communication.

OCCUPANCY

This building will be unoccupied in the areas where lead disturbance is occurring. Other areas inside the building, but outside of the containment, may be occupied by staff and students, and other trades conducting work at this site.

WASTE BIN/CONTAINERS

All bins/containers brought on-site to deposit waste into must be lockable or securable. Bins shall be secured at the end of every shift. Plywood shall be placed under the wheels of each bin to protect the existing surface. Bins must be double lined with 6-mil poly prior to waste being deposited. Containers must have the appropriate labels affixed on them as soon as any lead-contaminated debris is deposited.

LEAD CONTAINMENT SETUP REQUIREMENTS

1. All poly used on this project shall be 6-mil and flame retardant.
2. A wash station that includes water, soap, towels and sticky mat shall be set up and used for hygiene purposes and to prevent the tracking out of lead-contaminated debris. Should a contractor's disturbance methods demand or choose to don disposable suits, the wash station must be built as a chamber. A chamber shall be built large enough to accommodate all workers donning PPE without being able to be seen by staff, students, or anyone else walking by.
3. The contractor is required to contain the disturbance of lead in a manner which prevents lead-contaminated dust, debris and water from leaving the regulated work area. Uncontrolled releases will not be allowed and will be cause for stopping the project until modified work practices and containment that prevent these releases from occurring are designed and implemented.
4. The containment must be developed in compliance with the requirements of CCR 8 1532.1, these specifications and must be approved by the consultant.
5. All those entering the regulated area must sign in on a roster that documents their presence in the area.

WORKER PROTECTION

The contractor shall provide respiratory protection as outlined in current Cal/OSHA regulations. However, at a minimum:

1. During the removal and detail cleaning of lead-containing or lead-based painted components, workers shall wear at a minimum, half-face negative-pressure respirator with P-100 HEPA cartridges.
2. Quality disposable coveralls such as Tyvek-like suits shall be worn by all workers during all remediation activities on this project. Exceptions to this must be submitted to consultant in writing for review/approval.
3. Contractor shall provide the chain of custody and laboratory results of their worker air monitoring results each week on Wednesday for the previous week's samples. Unless a negative exposure assessment is produced, worker air monitoring must continue as long as remediation activities are being performed.

HEPA FILTERED EQUIPMENT REQUIREMENTS

Units arriving dirty or appearing to be contaminated shall be removed from the project site. Units must be positioned in the standard upright manner in which the manufacturer designed the equipment to operate.

LEAD DISTURBANCE PROCEDURES

1. Lead remediation shall be performed using the most expedient method, contingent upon approval from the consultant.
2. All LCP and LBP components or materials must be stabilized in a manner approved by the consultant before it is disturbed.
3. All removal methods must be performed using amended water.
4. Lead-containing paints or components shall be disturbed and/or removed while being kept wet, inside a containment and promptly placed into leak-tight containers.
5. Lead waste must be containerized before any work stoppages, such as for breaks, lunch, or the end of a shift. Bulk debris must be kept adequately wet until containerized. The contractor must plan only to disturb amounts of material that can be cleaned up and containerized before the next work stoppage.

PROHIBITED WORK PRACTICES

1. Uncontrolled releases. This is cause for stopping the project until modified work practices and containment that prevent these releases from occurring are designed and implemented.
2. Dry removal or dry disturbance of any kind. Garden hoses are prohibited on this project during remediation activities.
3. Mechanical tools without HEPA vacuum attachment and HEPA vacuum properly attached according to manufacturer recommendation.

COMPLETION OF LEAD REMOVAL

The consultant will inspect work areas for visual signs of dust and debris related to the disturbance of lead. All surface areas must be clean. Residual dust, of any nature, that was generated on this project and found within the regulated area will be assumed to contain lead and must be cleaned. A passing visual inspection shall constitute the LCP and LBP paints or components are rendered stabilized before being removed in compliance with Cal/OSHA's Lead in Construction Standard 8 CCR 1532.1 and the work identified in the architectural drawings. Should the condition of the LCP and LBP change from the date and time the visual inspection was given by the consultant, the contractor shall stop work and contact the consultant for re-evaluation and/or reinspection of the component.

LEAD DISPOSAL

Waste characterization is the responsibility of the lead remediation contractor. Lead waste shall be secured on-site until characterized. Testing results shall be provided to the on-site project monitor within ten calendar days of the waste being generated. Lead waste shall be disposed of in accordance with the contractor's waste characterization.

The Contractor is required to comply with all regulations in Title 8 Section 1532.1 Lead in Construction, all appropriate sections of Title 17 Lead Related Construction and Cal/EPA Title 22 for waste classification and disposal. The containers shall be leak tight and meet the requirements as stated in these specifications. Bags and other containers shall not be overfilled.

Attachments:

A. Lead Submittal Requirements
B. Site & Building Maps
C. Asbestos & Lead Survey

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Attachment A – Submittal Requirements

Lead Submittal Requirements

Note: not all of the items listed below are applicable for every project. Only the items applicable are required to be included in the submittal packet.

Prestart Submittals

1. Contractor's license(s) & Training
    a. CSLB license
    b. EPA RRP
    c. Proof of Lead Training
2. Notifications
    a. San Joaquin Valley APCD or appropriate local EPA enforcement agency for the job site location.
    b. Cal/OSHA
        i. Lead notification
    c. Equipment rented
        i. Proof the rental company has been made aware the rented equipment will be used for lead related work.
3. Site specific safety/emergency plan
    a. This must include, but is not limited to, the nearest hospital's phone number and address;
    b. Local police department phone number and address;
    c. Title, name and phone number of the contractor's contact whom should be contacted in the event of an emergency.
4. Contractor worker documentation for all workers on-site
    a. Proof of lead training (Cal/OSHA, CDPH or EPA, etc.)
    b. Proof of medical approval to wear a respirator
    c. Respirator fit test
5. Contractor's respiratory protection program
6. Negative exposure assessment (if requesting to don lesser PPE than specified in the SOW)
7. Safety data sheets
    a. All hazardous materials (as defined by Cal/OSHA)
8. Waste Disposal
    a. Paperwork for landfill proving the landfill will accept the waste
    b. Proof of licensed waste hauler and company for hazardous waste
    c. Waste characterization of lead waste
    d. Manifest for all types of waste to be generated

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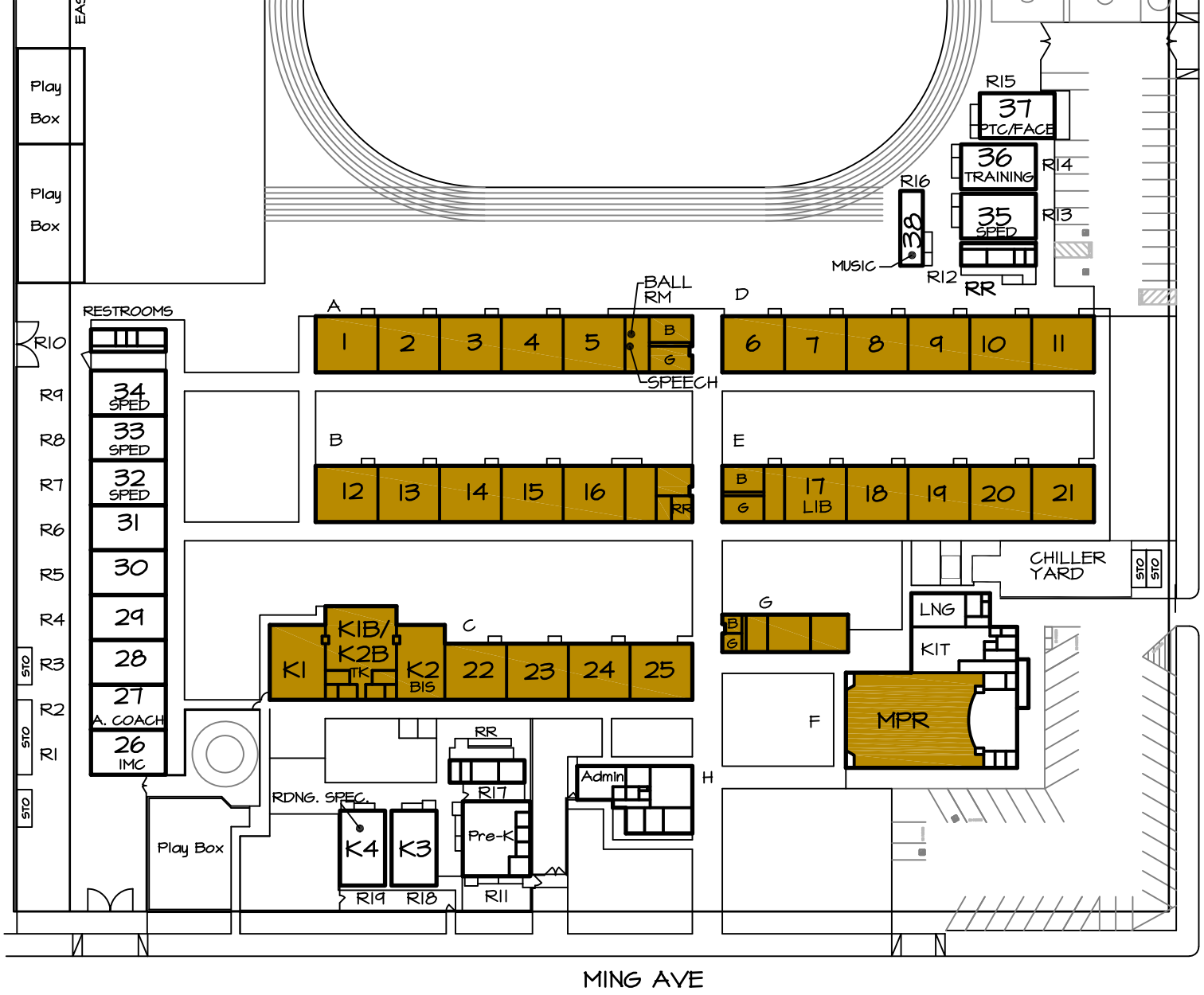
Submittals Required During the Project

1. Daily copies
    a. Safety meeting (if held daily)
    b. Worker roster of all employees onsite – regardless of training
    c. Entry/exit log for employees entering/exiting containment/regulated area
2. Weekly
    a. Safety meeting
    b. Worker personal air monitoring
    c. Area air monitoring

Submittals Required at the Conclusion of the Project

1. Contractor Air Monitoring & Lab Results (refer to the SOW for required frequency)
2. Any other paperwork as requested by the Consultant or Building Owner

Attachment B – Site & Building Maps



WAYSIDE ELEMENTARY SCHOOL
1000 MING AVE.

REMOVE PERMANENT ROOMS FROM CHILLER SYSTEM. INSTALL NEW INDIVIDUAL WALL OR ROOF UNIT

NORTH

SITE PLAN

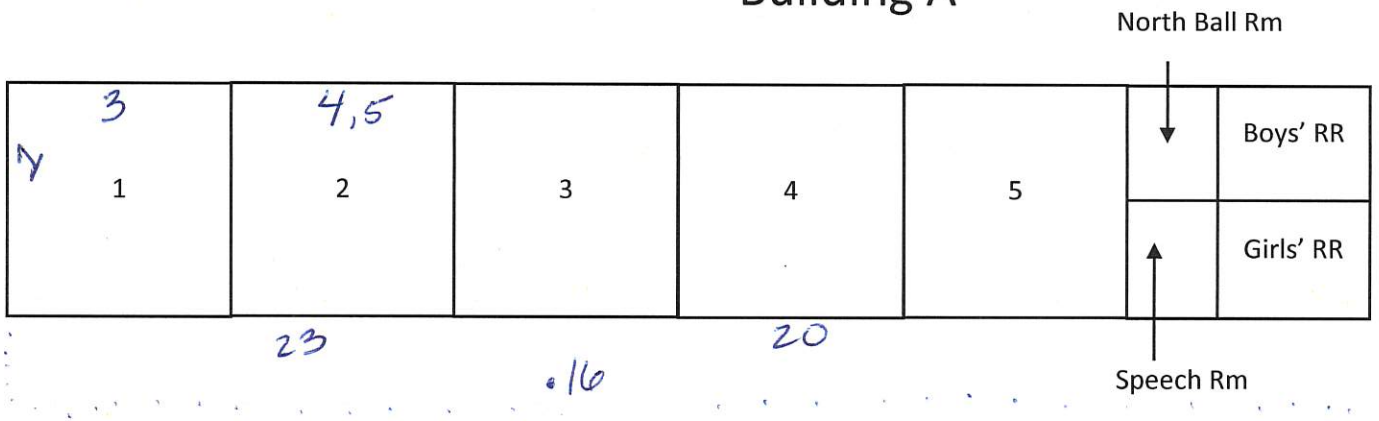
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023

Building Maps

N

LBP Maps

Building A



#'s = Line number on XRF report.

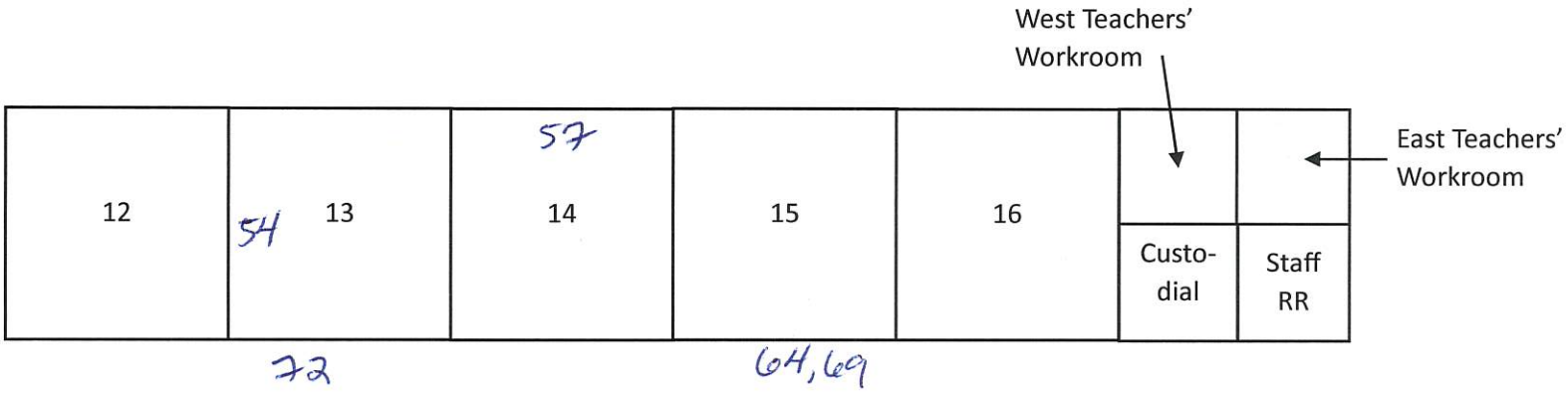
Not Drawn To Scale

Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023

Building Maps

N

Building B



Not Drawn To Scale

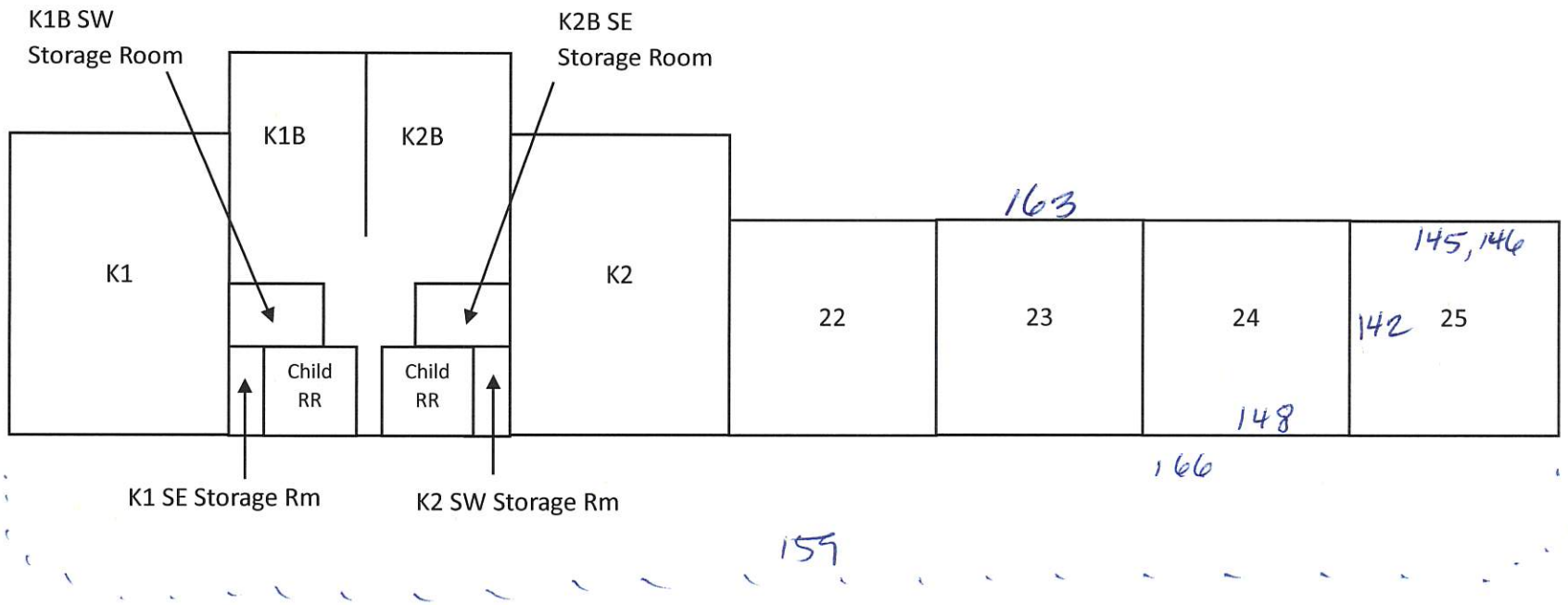
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023

Building Maps

N

LBP Maps

Building C



Not Drawn To Scale

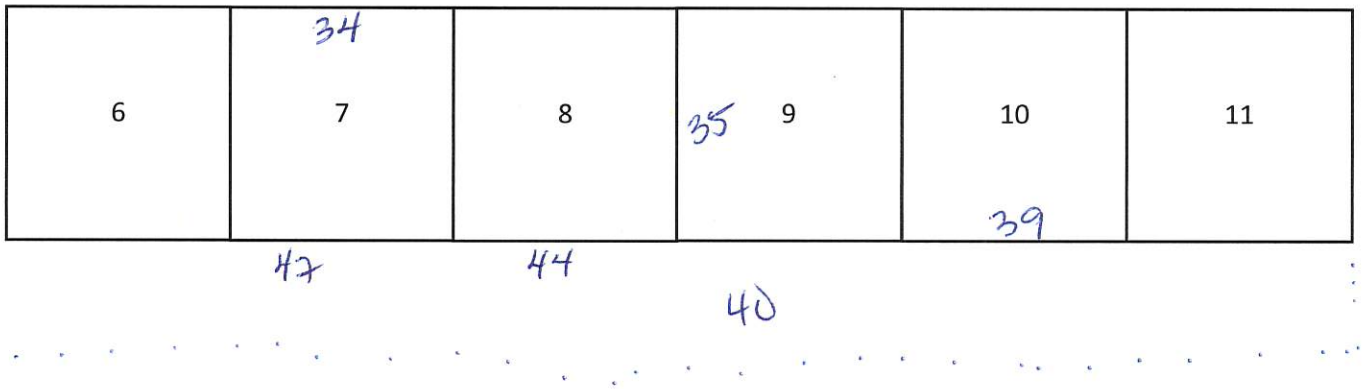
Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023

Building Maps

N

LBP Maps

Building D



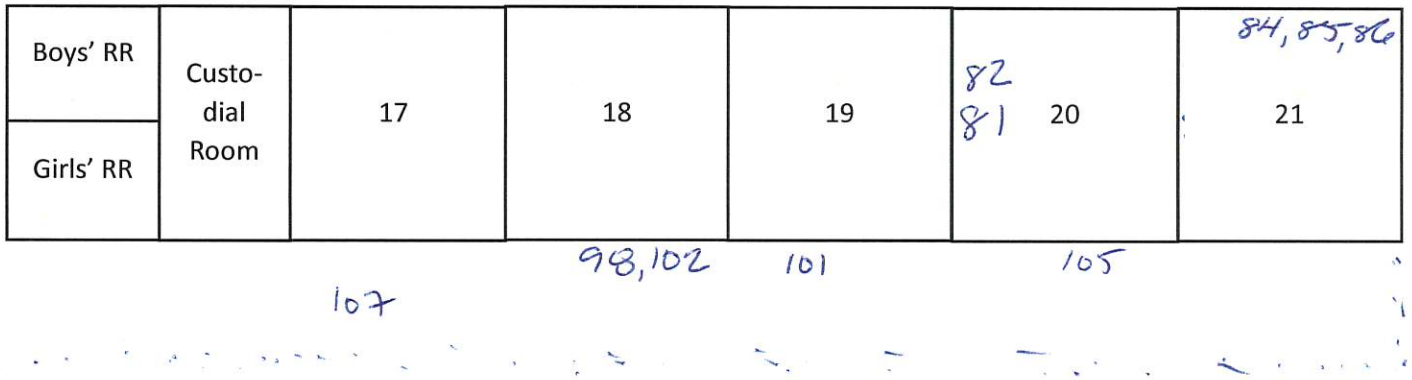
Not Drawn To Scale

Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023

Building Maps

N

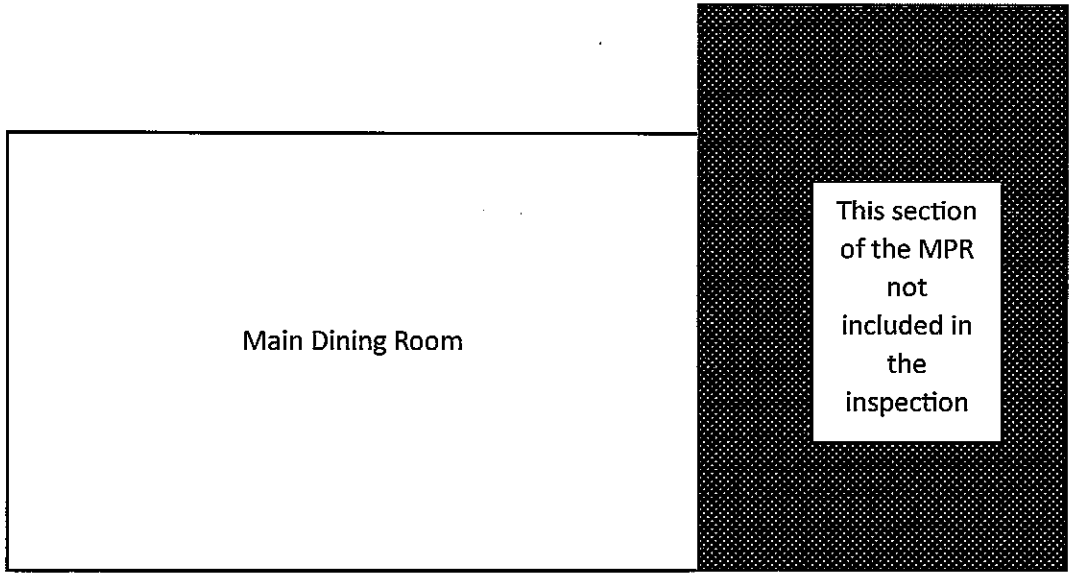
Building E



Not Drawn To Scale

N

Building F



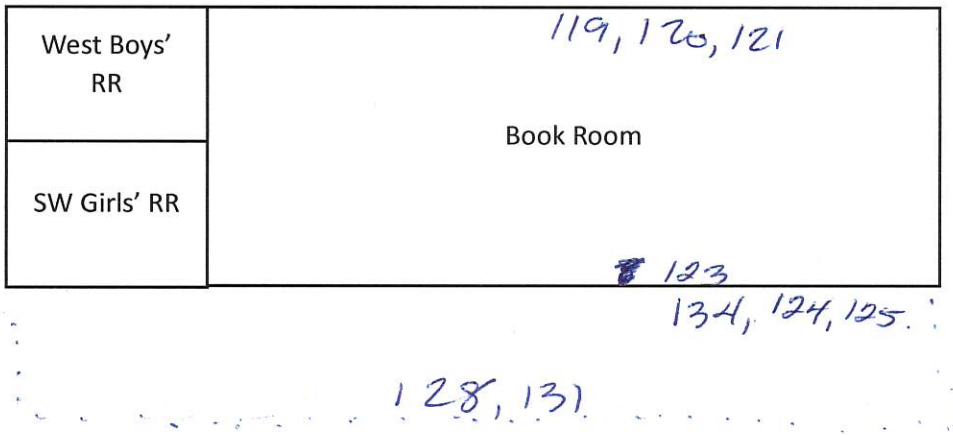
Not Drawn To Scale

Bakersfield City School District
Wayside ES – HVAC MOD
YES Environmental, Inc. Project #: 23YES-05
Dec 2022 – June 2023

Building Maps

N

Building G



Not Drawn To Scale

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Attachment C – Asbestos & Lead Survey

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

CLIENT DEFINED SURVEY FOR LEAD BASED PAINT

Client: Bakersfield City School District
Site: Wayside ES – HVAC MOD
YES, Inc. Project Number: 23YES-05 **VIKEN Serial #:** 3333 **Model #:** Pb200

Date	6-29-2023	Start Time	12:00 pm	Beginning Calibration	1.04 =	1.00	1.04 =	1.09	1.04 =	1.12	Lead-Containing Paint (LCP) or Lead-Based Paint (LBP)
Date	6-29-2023	End Time	4:00 pm	Ending Calibration	1.04 =	1.18	1.04 =	1.16	1.04 =	1.06	

NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM²	
INTERIOR – BUILDING A							
1.	ROOM 1 – WEST SIDE	CABINETS	WOOD	GREY	FAIR	1.35	LBP
2.	ROOM 1 – NORTH SIDE	WINDOW	METAL	GREY	INTACT	0.36	LCP
3.	ROOM 1 – NORTH SIDE	WINDOW TRIM	WOOD	GREY	INTACT	1.10	LBP
4.	ROOM 2 – NORTH SIDE	WINDOW SILL	WOOD	GREY	INTACT	1.11	LBP
5.	ROOM 2 – NORTH SIDE	VERTICAL WINDOW SUPPORT POLE	METAL	GREY	INTACT	4.05	LBP
6.	ROOM 3 – SOUTH SIDE	WALL	PLASTER	GREY	INTACT	0.10	LCP
7.	ROOM 3 – SOUTH SIDE	DOOR	TRIM	GREY	FAIR	0.11	LCP
8.	ROOM 3 – SOUTH SIDE	DOOR FRAME	METAL	GREY	INTACT	0.11	LCP
9.	ROOM 4 – SOUTH SIDE	DOOR	METAL	GREY	INTACT	0.06	LCP
10.	ROOM 5 – CENTER	T-BAR GRID	METAL	WHITE	INTACT	0.00	LCP
11.	ROOM 5 – CENTER	CEILING TILE 2X4	FIBROUS MATERIAL	WHITE	INTACT	0.02	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
INTERIOR – BUILDING A CONTINUED							
12.	GIRLS RR – AT ENTRY	FLOOR	2” CERAMIC TILE	GREY	INTACT	0.17	LCP
13.	GIRLS RR – SOUTH SIDE	WALL	4” CERAMIC TILE	WHITE	INTACT	0.20	LCP
14.	GIRLS RR – SOUTH SIDE	SINK	PORCELAIN	WHITE	INTACT	0.01	LCP
15.	BOYS RR – AT TOILETS	TOILET	PORCELAIN	WHITE	INTACT	0.01	LCP
EXTERIOR – BUILDING A							
16.	SOUTH SIDE AT COVERED WALKWAY	VERTICAL SUPPORT POLES	METAL	DK GREY	FAIR	1.72	LBP
17.	SOUTH SIDE AT ROOM 1	DOOR	METAL	DK GREY	FAIR	0.02	LCP
18.	SOUTH SIDE AT ROOM 2	DOOR FRAME	METAL	DK GREY	FAIR	0.40	LCP
19.	SOUTH SIDE AT ROOM 3	DOOR TRIM	WOOD	DK GREY	INTACT	0.22	LCP
20.	SOUTH SIDE AT ROOM 4	WINDOW SILL/TRIM	WOOD	DK GREY	INTACT	1.45	LBP
21.	NORTH SIDE AT BALL ROOM	WALL	PLASTER	CREAM	FAIR	0.21	LCP
22.	SOUTH SIDE WEST END	FIRE EXT. CABINET INFILL	WOOD	CREAM	INTACT	0.24	LCP
23.	SOUTH SIDE WEST END	FIRE EXT. CABINET	WOOD	METAL	INTACT	2.05	LBP
24.	NORTH SIDE EAST END	WALL BASE	CONCRETE	CREAM	FAIR	0.01	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
EXTERIOR – BUILDING A CONTINUED							
25.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	BLUE	FAIR	0.60	LCP
26.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	WHITE	FAIR	0.25	LCP
27.	WEST SIDE SOUTH END	ELECTRICAL BOX	METAL	GREEN	INTACT	0.48	LCP
28.	NORTH SIDE WEST END	WINDOW	METAL	DK GREY	INTACT	0.39	LCP
29.	NORTH SIDE CENTER	LOUVER	METAL	CREAM	INTACT	0.07	LCP
30.	EAST SIDE	PLUMBERS CHASE ACCESS DOOR	WOOD	CREAM	FAIR	0.09	LCP
31.	NORTH SIDE EAST END	DRINKING FOUNTAIN	PORCELAIN	WHITE	INTACT	0.45	LCP
INTERIOR – BUILDING D							
32.	ROOM 7 – NORTH SIDE	WINDOW	METAL	GREY	INTACT	0.22	LCP
33.	ROOM 7 – NORTH SIDE	WINDOW SILL	WOOD	GREY	INTACT	0.67	LCP
34.	ROOM 7 – NORTH SIDE	VERTICAL WINDOW SUPPORT POLE	METAL	GREY	INTACT	1.09	LBP
35.	ROOM 9 – WEST SIDE	CABINETS	WOOD	GREY	INTACT	2.09	LBP
36.	ROOM 9 – WEST SIDE	WALL	PLASTER	GREY	INTACT	0.32	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
INTERIOR – BUILDING D CONTINUED							
37.	ROOM 10 – SOUTH SIDE	DOOR FRAME	METAL	GREY	FAIR	0.50	LCP
38.	ROOM 10 – SOUTH SIDE	DOOR	METAL	DK GREY	FAIR	0.05	LCP
39.	ROOM 10 – SOUTH SIDE	UPPER WALL TRIM	WOOD	GREY	INTACT	1.81	LBP
EXTERIOR – BUILDING D							
40.	SOUTH SIDE AT COVERED WALKWAY	VERTICAL SUPPORT POLES	METAL	DK GREY	FAIR	1.72	LBP
41.	SOUTH SIDE AT ROOM 9	DOOR	METAL	DK GREY	FAIR	0.02	LCP
42.	SOUTH SIDE AT ROOM 8	DOOR FRAME	METAL	DK GREY	FAIR	0.40	LCP
43.	SOUTH SIDE AT ROOM 7	DOOR TRIM	WOOD	DK GREY	INTACT	0.22	LCP
44.	SOUTH SIDE AT ROOM 8	WINDOW SILL/TRIM	WOOD	DK GREY	INTACT	1.47	LBP
45.	SOUTH SIDE AT ROOM 11	WALL	PLASTER	CREAM	FAIR	0.41	LCP
46.	SOUTH SIDE WEST END	FIRE EXT. CABINET INFILL	WOOD	CREAM	INTACT	0.24	LCP
47.	SOUTH SIDE WEST END	FIRE EXT. CABINET	WOOD	METAL	INTACT	2.05	LBP
48.	SOUTH SIDE EAST END	WALL BASE	CONCRETE	CREAM	FAIR	0.45	LCP
49.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	BLUE	FAIR	0.60	LCP

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EXTERIOR – BUILDING D CONTINUED							
50.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	WHITE	FAIR	0.25	LCP
51.	WEST SIDE SOUTH END	ELECTRICAL BOX	METAL	GREEN	INTACT	0.48	LCP
52.	NORTH SIDE WEST END	WINDOW	METAL	DK GREY	INTACT	0.43	LCP
53.	NORTH SIDE CENTER	LOUVER	METAL	CREAM	INTACT	0.06	LCP
INTERIOR – BUILDING B							
54.	ROOM 13 – WEST SIDE	CABINET	WOOD	GREY	INTACT	1.51	LBP
55.	ROOM 13 – NORTH SIDE	WINDOW	METAL	GREY	INTACT	0.90	LCP
56.	ROOM 13 – NORTH SIDE	WINDOW SILL	WOOD	GREY	INTACT	0.78	LCP
57.	ROOM 14 – NORTH SIDE	VERTICAL WINDOW SUPPORT POLE	METAL	GREY	INTACT	5.46	LBP
58.	ROOM 15 – SOUTH SIDE WEST END	WALL	PLASTER	CREAM	INTACT	0.13	LCP
59.	ROOM 15 – CENTER	T-BAR GRID	METAL	WHITE	INTACT	0.01	LCP
60.	ROOM 15 – CENTER	CEILING TILE 2X4	FIBROUS MATERIAL	WHITE	INTACT	0.00	LCP
61.	ROOM 16 – SOUTH SIDE	DOOR FRAME	METAL	GREY	INTACT	0.40	LCP
62.	ROOM 16 – SOUTH SIDE	DOOR	METAL	DK GREY	INTACT	0.06	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
INTERIOR – BUILDING B CONTINUED							
63.	ROM 12 – SOUTH SIDE	CEILING	12" ACOUSTIC TILE	WHITE	INTACT	0.07	LCP
64.	ROOM 15 – SOUTH SIDE	UPPER WINDOW SILL	WOOD	GREY	INTACT	1.10	LBP
EXTERIOR – BUILDING B							
65.	SOUTH SIDE AT COVERED WALKWAY	VERTICAL SUPPORT POLES	METAL	DK GREY	FAIR	2.61	LBP
66.	SOUTH SIDE AT ROOM 12	DOOR	METAL	DK GREY	FAIR	0.02	LCP
67.	SOUTH SIDE AT ROOM 13	DOOR FRAME	METAL	DK GREY	FAIR	0.40	LCP
68.	SOUTH SIDE AT ROOM 14	DOOR TRIM	WOOD	DK GREY	INTACT	0.22	LCP
69.	SOUTH SIDE AT ROOM 15	WINDOW SILL/TRIM	WOOD	DK GREY	INTACT	3.98	LBP
70.	SOUTH SIDE CENTER	WALL	PLASTER	CREAM	FAIR	0.36	LCP
71.	SOUTH SIDE EAST END	FIRE EXT. CABINET INFILL	WOOD	CREAM	INTACT	0.24	LCP
72.	SOUTH SIDE WEST END	FIRE EXT. CABINET	WOOD	METAL	INTACT	1.18	LBP
73.	NORTH SIDE EAST END	WALL BASE	CONCRETE	CREAM	FAIR	0.47	LCP
74.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	BLUE	FAIR	0.50	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
EXTERIOR – BUILDING B CONTINUED							
75.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	WHITE	FAIR	0.46	LCP
76.	WEST SIDE SOUTH END	ELECTRICAL BOX	METAL	GREEN	INTACT	0.48	LCP
77.	NORTH SIDE WEST END	WINDOW	METAL	DK GREY	INTACT	0.39	LCP
78.	NORTH SIDE CENTER	LOUVER	METAL	CREAM	INTACT	0.07	LCP
79.	EAST SIDE	WALL	PLASTER	YELLOW	FAIR	0.47	LCP
80.	EAST SIDE	DRINKING FOUNTAIN	PORCELAIN	WHITE	INTACT	0.26	LCP
INTERIOR – BUILDING E							
81.	ROOM 20 – WEST SIDE	CABINETS	WOOD	GREY	FAIR	1.69	LBP
82.	ROOM 20 – WEST SIDE	WALL ABOVE SINK	WOOD	GREY	INTACT	2.39	LBP
83.	ROOM 20 – NORTH SIDE	WINDOW	METAL	GREY	INTACT	0.24	LCP
84.	ROOM 21 – NORTH SIDE	WINDOW TRIM	WOOD	GREY	INTACT	6.70	LBP
85.	ROOM 21 – NORTH SIDE	WINDOW SILL	WOOD	GREY	INTACT	1.36	LBP
86.	ROOM 21 – NORTH SIDE	VERTICAL WINDOW SUPPORT POLE	METAL	GREY	INTACT	1.18	LBP
87.	ROOM 18 – SOUTH SIDE WEST END	WALL	PLASTER	GREY	INTACT	0.17	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
INTERIOR – BUILDING E CONTINUED							
88.	ROOM 19 – SOUTH SIDE	DOOR TRIM	WOOD	GREY	FAIR	0.06	LCP
89.	ROOM 19 – SOUTH SIDE	DOOR FRAME	METAL	GREY	INTACT	0.72	LCP
90.	ROOM 20 – SOUTH SIDE	DOOR	METAL	GREY	INTACT	0.06	LCP
91.	ROOM 18 - CENTER	T-BAR GRID	METAL	WHITE	INTACT	0.07	LCP
92.	ROOM 18 - CENTER	CEILING TILE 2X4	FIBROUS MATERIAL	WHITE	INTACT	0.01	LCP
93.	WEST END GIRLS RR – CENTER	FLOOR	2” CERAMIC TILE	GREY	INTACT	0.03	LCP
94.	WEST END GIRLS RR – WEST WALL	WALL	4” CERAMIC TILE	WHITE	INTACT	0.17	LCP
95.	WEST END BOYS RR – NORTH WALL	SINK	PORCELAIN	WHITE	INTACT	0.07	LCP
96.	WEST END BOYS RR – SOUTH WALL	TOILET	PORCELAIN	WHITE	INTACT	0.46	LCP
97.	CUSTODIAL ROOM – WEST SIDE	CABINETS	WOOD	BLUE	FAIR	0.22	LCP
EXTERIOR – BUILDING E							
98.	SOUTH SIDE CENTER	VERTICAL WINDOW SUPPORT POLES	METAL	DK GREY	FAIR	1.42	LBP
99.	SOUTH SIDE AT ROOM 20	DOOR	METAL	DK GREY	FAIR	0.04	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM²	
EXTERIOR – BUILDING E CONTINUED							
100.	SOUTH SIDE AT ROOM 21	DOOR FRAME	METAL	DK GREY	FAIR	0.54	LCP
101.	SOUTH SIDE AT ROOM 19	DOOR TRIM	WOOD	DK GREY	INTACT	1.20	LBP
102.	SOUTH SIDE AT ROOM 18	WINDOW SILL/TRIM	WOOD	DK GREY	INTACT	2.13	LBP
103.	NORTH SIDE CENTER	WALL	PLASTER	CREAM	FAIR	0.33	LCP
104.	SOUTH SIDE CENTER	FIRE EXT. CABINET INFILL	WOOD	CREAM	INTACT	0.77	LCP
105.	SOUTH SIDE EAST END	FIRE EXT. CABINET	WOOD	METAL	INTACT	2.88	LBP
106.	SOUTH SIDE CENTER	WALL BASE	CONCRETE	CREAM	FAIR	0.11	LCP
107.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	BLUE	FAIR	1.11	LBP
108.	SOUTH SIDE CENTER OF WALKWAY	FLOOR	CONCRETE	WHITE	FAIR	0.24	LCP
109.	NORTH SIDE EAST END	WINDOW	METAL	DK GREY	INTACT	0.41	LCP
110.	NORTH SIDE WEST END	LOUVER	METAL	CREAM	INTACT	0.05	LCP
111.	WEST SIDE	WALL	PLASTER	GREEN	INTACT	0.53	LCP
INTERIOR – BUILDING G							
112.	BOOK ROOM – WEST SIDE	WALL	PLASTER	CREAM	FAIR	0.01	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM²	
INTERIOR – BUILDING G CONTINUED							
113.	BOOK ROOM – CENTER	PONY WALL	WOOD	GREEN	FAIR	0.33	LCP
114.	BOOK ROOM – CENTER	DOOR FRAME	WOOD	BLUE	FAIR	0.08	LCP
115.	BOOK ROOM – EAST SIDE	BOOK SHELVES	WOOD	GREEN	FAIR	0.72	LCP
116.	BOOK ROOM – CENTER	PONY WALL	DRYWALL	GREEN	FAIR	0.05	LCP
117.	BOOK ROOM – CENTER	DOOR	METAL	BLUE	FAIR	0.00	LCP
118.	BOOK ROOM – NORTH SIDE	WINDOW	METAL	GREY	INTACT	0.24	LCP
119.	BOOK ROOM – NORTH SIDE	WINDOW TRIM	WOOD	GREY	INTACT	6.70	LBP
120.	BOOK ROOM – NORTH SIDE	WINDOW SILL	WOOD	GREY	INTACT	1.36	LBP
121.	BOOK ROOM – NORTH SIDE	VERTICAL WINDOW SUPPORT POLE	METAL	GREY	INTACT	1.18	LBP
122.	BOOK ROOM – SOUTH ENTRY	DOOR	WOOD	DK GREY	FAIR	0.41	LCP
123.	BOOK ROOM – SOUTH ENTRY	DOOR JAMB	WOOD	BLUE	FAIR	8.15	LBP
EXTERIOR – BUILDING G							
124.	SOUTH SIDE EAST END	DOOR	WOOD	DK GREY	FAIR	1.76	LBP
125.	SOUTH SIDE EAST END	DOOR FRAME	WOOD	DK GREY	FAIR	9.97	LBP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
EXTERIOR – BUILDING G CONTINUED							
126.	SOUTH SIDE CENTER	WALL	PLASTER	CREAM	INTACT	0.25	LCP
127.	SOUTH SIDE CENTER	WALL BASE	CONCRETE	CREAM	FAIR	0.97	LCP
128.	SOUTH SIDE CENTER AT WALKWAY	VERTICAL SUPPORT POLE	METAL	DK GREY	FAIR	2.40	LBP
129.	SOUTH SIDE CENTER AT WALKWAY	FLOOR	CONCRETE	WHITE	FAIR	0.34	LCP
130.	SOUTH SIDE CENTER AT WALKWAY	FLOOR	CONCRETE	YELLOW	FAIR	0.29	LCP
131.	NORTH SIDE EAST END	WINDOW	METAL	DK GREY	INTACT	0.41	LCP
132.	NORTH SIDE WEST END	LOUVER	METAL	CREAM	INTACT	0.05	LCP
133.	SOUTH SIDE CENTER	VERTICAL WINDOW SUPPORT POLES	METAL	DK GREY	FAIR	1.42	LBP
134.	SOUTH SIDE EAST END	WINDOW SILL/TRIM	WOOD	DK GREY	INTACT	2.13	LBP
INTERIOR – BUILDING F (MPR)							
135.	MAIN DINING ROOM – NORTH SIDE	UPPER WALL	PLASTER	LT GREY	INTACT	0.13	LCP
136.	MAIN DINING ROOM – NORTH SIDE	LOWER WALL	WOOD	DK GREY	INTACT	0.22	LCP
137.	MAIN DINING ROOM – NORTH SIDE	MID-WALL TRIM	WOOD	DK GREY	INTACT	0.08	LCP

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NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
INTERIOR – BUILDING F (MPR) CONTINUED							
138.	MAIN DINING ROOM - CENTER	T-BAR GRID	METAL	WHITE	INTACT	0.01	LCP
139.	MAIN DINING ROOM – CENTER	CEILING TILE 2X4	FIBROUS MATERIAL	WHITE	INTACT	0.07	LCP
140.	NORTH KITCHEN	CEILING	PLASTER	CREAM	INTACT	0.01	LCP
141.	MAIN DINING ROOM – NORTH SIDE	DOOR	WOOD	CREAM	INTACT	0.62	LCP
INTERIOR – BUILDING C							
142.	ROOM 25 – WEST SIDE	CABINETS	WOOD	GREY	FAIR	1.70	LBP
143.	ROOM 25 – NORTH SIDE	WINDOW	METAL	GREY	INTACT	0.19	LCP
144.	ROOM 24 – NORTH SIDE WEST END	WINDOW TRIM	WOOD	GREY	INTACT	0.75	LCP
145.	ROOM 25 – NORTH SIDE	WINDOW SILL	WOOD	GREY	INTACT	3.59	LBP
146.	ROOM 25 – NORTH SIDE	VERTICAL WINDOW SUPPORT POLE	METAL	GREY	INTACT	1.66	LBP
147.	ROOM 23 – SOUTH SIDE WEST END	WALL	PLASTER	GREY	INTACT	0.17	LCP
148.	ROOM 24 – SOUTH SIDE	DOOR	TRIM	GREY	FAIR	1.71	LBP
149.	ROOM 24 – SOUTH SIDE	DOOR FRAME	METAL	GREY	INTACT	0.53	LCP
150.	ROOM 24 – SOUTH SIDE	DOOR	METAL	GREY	INTACT	0.06	LCP

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Date	6-29-2023	Start Time	12:00 pm	Beginning Calibration	1.04 =	1.00	1.04 =	1.09	1.04 =	1.12	Lead-Containing Paint (LCP) or Lead-Based Paint (LBP)	
Date	6-29-2023	End Time	4:00 pm	Ending Calibration	1.04 =	1.18	1.04 =	1.16	1.04 =	1.06		

NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM²	
INTERIOR – BUILDING C CONTINUED							
151.	ROOM K2 – CENTER	T-BAR GRID	METAL	WHITE	INTACT	0.02	LCP
152.	ROOM K2 - CENTER	CEILING TILE 2X4	FIBROUS MATERIAL	WHITE	INTACT	0.04	LCP
153.	K2B - CENTER	FLOOR	2” CERAMIC TILE	GREY	INTACT	0.09	LCP
154.	K2B – EAST SIDE	WALL	4” CERAMIC TILE	WHITE	INTACT	0.07	LCP
155.	K1B – RR	SINK	PORCELAIN	WHITE	INTACT	0.30	LCP
156.	K1B – RR	TOILET	PORCELAIN	WHITE	INTACT	0.90	LCP
157.	K2B – SE STORAGE ROOM	DOOR FRAME	WOOD	GREY	FAIR	0.62	LCP
158.	K1 – EAST SIDE	DOOR	WOOD	GREY	FAIR	0.14	LCP
EXTERIOR – BUILDING C							
159.	SOUTH SIDE COVERED WALKWAY	VERTICAL SUPPORT POLES	METAL	DK GREY	FAIR	2.61	LBP
160.	SOUTH ROOM K1	DOOR	METAL	DK GREY	FAIR	0.02	LCP
161.	SOUTH SIDE ROOM K2	DOOR FRAME	METAL	DK GREY	FAIR	0.40	LCP
162.	SOUTH SIDE ROOM 23	DOOR TRIM	WOOD	DK GREY	INTACT	0.22	LCP
163.	NORTH SIDE CENTER	WINDOW SILL/TRIM	WOOD	DK GREY	INTACT	3.98	LBP

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Date	6-29-2023	Start Time	12:00 pm	Beginning Calibration	1.04 =	1.00	1.04 =	1.09	1.04 =	1.12	Lead-Containing Paint (LCP) or Lead-Based Paint (LBP)	
Date	6-29-2023	End Time	4:00 pm	Ending Calibration	1.04 =	1.18	1.04 =	1.16	1.04 =	1.06		

NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
EXTERIOR – BUILDING C CONTINUED							
164.	SOUTH SIDE CENTER	WALL	PLASTER	CREAM	FAIR	0.36	LCP
165.	SOUTH SIDE EAST END	FIRE EXT. CABINET INFILL	WOOD	CREAM	INTACT	0.24	LCP
166.	SOUTH SIDE EAST END	FIRE EXT. CABINET	WOOD	METAL	INTACT	1.18	LBP
167.	NORTH SIDE WEST END	WALL BASE	CONCRETE	CREAM	FAIR	0.47	LCP
168.	SOUTH SIDE COVERED WALKWAY	FLOOR	CONCRETE	BLUE	FAIR	0.50	LCP
169.	SOUTH SIDE COVERED WALKWAY	FLOOR	CONCRETE	WHITE	FAIR	0.72	LCP
170.	SOUTH SIDE ROOM 25	WINDOW	METAL	DK GREY	INTACT	0.43	LCP
171.	NORTH SIDE EAST END	LOUVER	METAL	CREAM	INTACT	0.05	LCP
172.	NORTH SIDE CENTER	WALL	PLASTER	CREAM	FAIR	0.39	LCP
INTERIOR - R1-R10 (CRs 26-34 & RR)							
173.	ROOM 26 – CENTER	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.03	LCP
174.	ROOM 30 – WEST SIDE	WALL	DRYWALL	YELLOW	INTACT	0.04	LCP
175.	ROOM 33 – CENTER	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.02	LCP
176.	ROOM 29 – EAST SIDE	WALL	DRYWALL	YELLOW	INTACT	0.06	LCP

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Date	6-29-2023	Start Time	12:00 pm	Beginning Calibration	1.04 =	1.00	1.04 =	1.09	1.04 =	1.12	Lead-Containing Paint (LCP) or Lead-Based Paint (LBP)
Date	6-29-2023	End Time	4:00 pm	Ending Calibration	1.04 =	1.18	1.04 =	1.16	1.04 =	1.06	

NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
EXTERIOR - R1-R10 (CRs 26-34 & RR)							
177.	EAST SIDE AT CR 27	WALL	STUCCO	CREAM	INTACT	0.01	LCP
178.	EAST SIDE AT CR 32	WALL	STUCCO	CREAM	INTACT	0.02	LCP
INTERIOR – R18 (CR K3) & R19 (K4)							
179.	R18 - NORTH SIDE CENTER	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.00	LCP
EXTERIOR - R18 (CR K3) & R19 (K4)							
180.	R19 - NORTH SIDE CENTER	WALL	WOOD	CREAM	INTACT	0.01	LCP
INTERIOR – R17 (RR BLDG)							
181.	NO PAINTED MATERIALS INSIDE						
EXTERIOR – R17 (RR BLDG)							
182.	WEST SIDE CENTER	WALL	WOOD	CREAM	INTACT	0.01	LCP
INTERIOR – R11 (PRE K)							
183.	CENTER OF ROOM	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.03	LCP
EXTERIOR – R11 (PRE K)							
184.	WEST SIDE NORTH END	WALL	WOOD	CREAM	INTACT	0.09	LCP

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Date	6-29-2023	Start Time	12:00 pm	Beginning Calibration	1.04 =	1.00	1.04 =	1.09	1.04 =	1.12	Lead-Containing Paint (LCP) or Lead-Based Paint (LBP)
Date	6-29-2023	End Time	4:00 pm	Ending Calibration	1.04 =	1.18	1.04 =	1.16	1.04 =	1.06	

NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
INTERIOR – R13 (R35) & R14 (36)							
185.	CENTER OF ROOM	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.03	LCP
EXTERIOR - R13 (R35) & R14 (36)							
186.	EAST SIDE CENTER	WALL	WOOD	TAN	INTACT	0.11	LCP
INTERIOR – R15 (R37)							
187.	CENTER OF ROOM	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.03	LCP
EXTERIOR - R15 (R37)							
188.	EAST SIDE CENTER	WALL	WOOD	TAN	INTACT	0.07	LCP
INTERIOR – R16 (38)							
189.	CENTER OF CEILING	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.00	LCP
EXTERIOR - R16 (38)							
190.	WEST SIDE CENTER	WALL	WOOD	TAN	INTACT	0.09	LCP
INTERIOR – R12 (RR BLDG)							
191.	CENTER OF CEILING	CEILING TILE 2'X4	FIBROUS MATERIAL	WHITE	INTACT	0.00	LCP
ROW INTENTIONALLY LEFT BLANK							

Date	6-29-2023	Start Time	12:00 pm	Beginning Calibration	1.04 =	1.00	1.04 =	1.09	1.04 =	1.12	Lead-Containing Paint (LCP) or Lead-Based Paint (LBP)
Date	6-29-2023	End Time	4:00 pm	Ending Calibration	1.04 =	1.18	1.04 =	1.16	1.04 =	1.06	

NO.	SAMPLE LOCATION	COMPONENT	SUBSTRATE	COLOR	CONDITION	XRF RESULT MG/CM^2	
EXTERIOR - R12 (RR BLDG)							
192.	WEST SIDE CENTER	WALL	WOOD	TAN	INTACT	0.05	LCP
INTERIOR – BUILDING A							
193.	SOUTH VP OFFICE – CENTER	CEILING TILE 2X4	FIBROUS MATERIAL	WHITE	INTACT	0.00	LCP
194.	WEST OFFICE – CENTER OF CEILING	CEILING TILE 12”	FIBROUS MATERIAL	WHITE	FAIR	0.02	LCP
195.	FRONT OFFICE – NORTH SIDE	WALL	PLASTER	CREAM	INTACT	0.17	LCP

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Campus Wide

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38	38A-B	Asphalt		N	n/a

Building: Covered Walkways Throughout Campus

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Ceilings	35		Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Chiller Yard **Room Name:** Chiller Yard

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	-		CMU		n/a	n/a
Pipes	47	47A-C	Paper jacketed fiberglass pipe insulation		N	n/a
	NOTE		Mostly concealed behind metal jacketing			

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building A - Classrooms 1-5 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Classroom 1 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03B	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04A	Plaster - sanded finish		N	n/a
Walls	5	05A	Tackboards & glue	Plaster	N	n/a
Sink	6	06D	Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07A	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Classroom 2	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01B	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08D	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Classroom 3 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02A	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03C	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04I	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07C	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Classroom 4	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08A	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building A - Classrooms 1-5	**Room Name:**	Classroom 5	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Speech Room **Rm Ft²:** 208
East of Rm 5 & West of Girls RR **Room Dimensions:** L=13 W=16 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building A - Classrooms 1-5 **Room Name:** Girls' Restroom **Rm Ft²:** 352
East of Rm 5 **Room Dimensions:** L=22 W=16 H=

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9	09B	Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10	10B-C	Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4	04J	Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Boys' Restroom **Rm Ft²:** 352
East of Rm 5 **Room Dimensions:** L=22 W=16 H=

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building A - Classrooms 1-5 **Room Name:** North Ball Room **Rm Ft²:** 208
East of Rm 5 - north side of bldg **Room Dimensions:** L=16 W=13 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	-		Concrete - bare & exposed		n/a	n/a
BB	-		Wood		n/a	n/a
Walls	-		Plywod on lower 4' of walls		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	-		Plywood - painted		n/a	n/a
Door	11		Fire Door - label painted over		Y	Y
	NOTE		Assumed. Test before disturbing or removing.			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building A - Classrooms 1-5 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38	38A	Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35	35A,G	Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28A-B	Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36	36A	White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building B - Classrooms 12-16 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Classroom 12 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	12	12B	Baseboard & glue - 4" lt green	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08F	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building B - Classrooms 12-16	**Room Name:**	Classroom 13	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04C	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07E	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building B - Classrooms 12-16	**Room Name:**	Classroom 14	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	12	12A	Baseboard & glue - 4" lt green	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06B	Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07F	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Unfinished drywall	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	25	25A	Unfinished drywall, with tape & joint compound	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	diagonal sheathing	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building B - Classrooms 12-16	**Room Name:**	Classroom 15	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02D	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04F	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08E	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building B - Classrooms 12-16	**Room Name:**	Classroom 16	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01C	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Custodial Room **Rm Ft²:** 143
East of Rm 16 **Room Dimensions:** L=13 W=11 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	-		Concrete - bare & exposed		n/a	n/a
BB	-		Wood		n/a	n/a
Walls	4	04B	Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26	26C	Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
NOTE			ATTIC ACCESS			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** East Teachers' Workroom **Rm Ft²:** 288
Inside East Teachers' Workroom **Room Dimensions:** L=18 W=16 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	13		Floor tile & glue 12" blue/grey oatmeal	Concrete	N	n/a
BB	14	14A	Baseboard & glue 4" dk grey	Wood	N	n/a
BB	-		Wood		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	15	15A	Lay-in panels - 2' x 4' variety (fiss/gouge) various ages	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Staff Restroom **Rm Ft²:** 112
East of Rm 16 **Room Dimensions:** L=14 W=8 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	16	16A	Sheet flooring & glue - grey mosaic pattern	Concrete	N	n/a
BB			None			
Walls	17	17A	Plaster - smooth finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building B - Classrooms 12-16 **Room Name:** West Teachers' Workroom **Rm Ft²:** 640
adjacent to CR 16 **Room Dimensions:** L=32 W=20 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	13	13A	Floor tile & glue 12" blue/grey oatmeal	Concrete	N	n/a
BB	14		Baseboard & glue 4" dk grey	Wood	N	n/a
BB	-		Wood		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5	05C	Tackboards & glue	Plaster	N	n/a
Ceiling	15		Lay-in panels - 2' x 4' variety (fiss/gouge) various ages	Plywood	N	n/a
Door	11		Fire Door - label painted over		Y	Y
	NOTE		Assumed. Test before disturbing or removing.			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building B - Classrooms 12-16 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls & Soffits	35		Exterior stucco, painted & vapor barrier		N	n/a
	NOTE		No other areas of stucco contain asbestos on this building. See the limited location of the asbestos-containing stucco below.			
Exterior Soffit PATCH ONLY	35	35B	Exterior stucco, painted & vapor barrier - 1% CH in texture coat		Y	Y

Windows	28	28C-D	Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

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Roof	37	White coated foam on silver paint on penetration mastic	Y	N
	NOTE	Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed		
	NOTE	On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.		

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material			
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom K1	**Rm Ft²:**	960
		Room Dimensions:	L=40 W=24 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23	23A	Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K1 SE Storage RM **Rm Ft²:** 36
Located inside K1 - SE corner **Room Dimensions:** L=6 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	K1B		**Rm Ft²:**	680
		Room Dimensions:	L=34	W=20	H=9/12	

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)		N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K1B SW Storage Rm **Rm Ft²:** 72
Room Dimensions: L=12 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	Diagonal Sheathing	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K1B Child RR **Rm Ft²:** 80
Room Dimensions: L=10 W=8 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	K2B		**Rm Ft²:**	680
		Room Dimensions:	L=34	W=20	H=9/12	

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K2B SE Storage Rm **Rm Ft²:** 72
Room Dimensions: L=12 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	diagonal sheathing	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K2B Child RR **Rm Ft²:** 80
Room Dimensions: L=10 W=8 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Classroom K2 **Rm Ft²:** 960

Room Dimensions: L=40 W=24 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
	NOTE		50% of floor			
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
	NOTE		50% of floor			
BB	3	03E	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat		
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** K2 SW Storage RM **Rm Ft²:** 36

Room Dimensions: L=6 W=6 H=8

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23		Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Wood slats	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 22	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04K	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	**c2**		
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slats	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	Diagonal sheathing	N	n/a

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 23	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02E	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22	22B	Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06E	Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 24	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01E	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building C - Rooms K1-K2, 22-25	**Room Name:**	Classroom 25	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building C - Rooms K1-K2, 22-25 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28E-F	Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36	36D	White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building D - Classrooms 6-11 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	This		
			material exists on and inbetween the floor joists of this space.			
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

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BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 6 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02B	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03D	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06C	Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08B	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24	24A	Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Classroom 7 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01A	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04G	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07B	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building D - Classrooms 6-11	**Room Name:**	Classroom 8	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04H	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building D - Classrooms 6-11	**Room Name:**	Classroom 9	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5	05D	Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08C	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building D - Classrooms 6-11	**Room Name:**	Classroom 10	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3	03A	Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07D	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26	26A	Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24	24B	Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building D - Classrooms 6-11	**Room Name:**	Classroom 11	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04E	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building D - Classrooms 6-11 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28G-H	Exterior window putty		N	n/a
Eaves	35	35C	Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building E - Classrooms 17-21 **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND material exists on and inbetween the floor joists of this space.	This		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Boys' Restroom **Rm Ft²:** 286
West of Room 17 **Room Dimensions:** L=22 W=13 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9	09A	Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10	10A	Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building E - Classrooms 17-21 **Room Name:** Girls' Restroom **Rm Ft²:** 286
West of Room 17 **Room Dimensions:** L=22 W=13 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Custodial Room **Rm Ft²:** 30
West of Room 17 **Room Dimensions:** L=30 W=10 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	-		Concrete - bare & exposed		N	n/a
BB			None		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4	04D	Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Classroom 17 (Lib) **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	18	18A	Carpet squares & glue - multi bright colored	Concrete	N	n/a
Floor	19	19A	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	20	20A	Baseboard & glue 4" black		N	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	21	21A	Drywall, smooth texture		N	n/a
	NOTE		Confirmed at north and west walls.			
Walls	5		Tackboards & glue	Plaster	N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26	26B	Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08G	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building E - Classrooms 17-21	**Room Name:**	Classroom 18	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1	01D	Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22	22A	Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04M	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07G	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Classroom 19 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6	06A	Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8	08H	Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Classroom 20 **Rm Ft²:** 960

Room Dimensions: L=32 W=30 H=9/12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2	02C	Carpet & glue - black/white speckled	Concrete	N	n/a
BB	22		Baseboard & glue 3" & 4" tan	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7	07H	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building:	Building E - Classrooms 17-21	**Room Name:**	Classroom 21	**Rm Ft²:**	960
		Room Dimensions:	L=32 W=30 H=9/12		

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	1		Carpet & glue - grey/green/multi	Concrete	N	n/a
Floor	2		Carpet & glue - black/white speckled	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue	wood	N	n/a
BB	-		Wood baseboard		n/a	n/a
Walls	4	04L	Plaster - sanded finish		N	n/a
Walls	5	05B	Tackboards & glue	Plaster	N	n/a
Sink	6		Sink coating - black (stainless steel)		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building E - Classrooms 17-21 **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28I-J	Exterior window putty		N	n/a
Eaves	35	35D	Exterior stucco, painted		N	n/a
Roof	36	36B	White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building F - Multi-Purpose Building **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	This		
			material exists on and inbetween the floor joists of this space.			
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building F - Multi-Purpose Building **Room Name:** Representative of ceilings throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Walls	4		Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue		N	n/a
Ceiling	7		Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Plaster	N	n/a
Ceiling	27		Plaster, Rough Finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building F - Multi-Purpose Building **Room Name:** Main Dining Room **Rm Ft²:** 3,600

Room Dimensions: L=72 W=50 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	13	13B	Floor tile & glue 12" blue/grey oatmeal	Concrete	N	n/a
BB	3		Baseboard & glue 3" & 4" blue		N	n/a
Walls	4	04N	Plaster - sanded finish		N	n/a
Walls	5		Tackboards & glue		N	n/a
Ceiling	7	07I	Lay-in panels - 2' x 4' gouge pinhole	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	Plaster	N	n/a
Ceiling	27	27A	Plaster, Rough Finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24	24C	Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building F - Multi-Purpose Building **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28		Exterior window putty		N	n/a
Eaves	35	35F	Exterior stucco, painted		N	n/a
Roof	36	36C	White coated foam on silver paint on rolled composition roofing &	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building G - Book Room Building **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND	This material exists on and inbetween the floor joists of this space.		
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building G - Book Room Building **Room Name:** West Boys' Restroom **Rm Ft²:** 140
Room Dimensions: L=14 W=10 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9	09C	Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building G - Book Room Building **Room Name:** SW Girls' Restroom **Rm Ft²:** 190
Room Dimensions: L=19 W=10 H=9

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	9		Ceramic floor tile grout (2" grey)		N	n/a
BB			None			
Walls	10		Ceramic wall tile grout - blue (4" white)	Plaster	N	n/a
	NOTE		AFF 6'			
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building G - Book Room Building **Room Name:** Book Room **Rm Ft²:** 798
Room Dimensions: L=42 W=19 H=12

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Floor	23	23B	Floor tile & glue 12" lt grey/cream mosaic	Concrete	N	n/a
BB	3	03F	Baseboard & glue 3" & 4" blue		N	n/a
Walls	4		Plaster - sanded finish		N	n/a
Ceiling	4		Plaster - sanded finish	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			

Building: Building G - Book Room Building **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28	28K-L	Exterior window putty		N	n/a
Eaves	35	35E	Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos
BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: Building H - Administration **Room Name:** Attic

Attic is defined as: every enclosed spaced that is contiguous and/or beneath the roof, attic, void, and plenum space above every room in this building including, but not limited to, exterior enclosed eaves, enclosed hallways, walkways, corridors, wall cavities, etc. and all spaces beneath the roof and above ceilings that are or are not readily accessible.

Attic Floor is defined as: the surface within an attic space, serving as the ceiling for the room(s) below and/or an area with exposed joists. It is not a term that can be used to infer a walkable surface.

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Attic Floor	26		Roofing debris with silver paint		Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND This material exists on and inbetween the floor joists of this space.			
Attic Floor	-		Fiberglass batt insulation		Y	Y
	NOTE		Contaminated with asbestos roofing debris			
Walls	-		Wood		n/a	n/a
Flue Pipes			Transite flue pipes - Known Asbestos Material (typically 10-20% Chrysotile)		Y	N
Ceiling	-		Diagonal sheathing		n/a	n/a

Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building H - Administration **Room Name:** Representative of ceilings throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Walls	4		Plaster - sanded finish		N	n/a
Walls	29	29A	Drywall, orange-peel texture		N	n/a
Walls	5		Tackboards & glue		N	n/a
Ceiling	15	15B-C	Lay-in panels - 2' x 4' variety (fiss/gouge) various ages	ACM Roofing debris	N	n/a
Ceiling	26		Roofing debris with silver paint	F/G insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	-		Fiberglass insulation	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	12" ACT	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	8		Acoustic ceiling tiles 12" uniform hole pattern (nailed)	wood slat	N	n/a
Ceiling	30	30A	Acoustic ceiling tiles 12" random pinhole pattern (nailed)	wood slat	N	n/a
Ceiling	-		Wood slats	ACM Roofing debris	n/a	n/a
Ceiling	26		Roofing debris with silver paint	Wool batt insulation	Y	Y
	NOTE		Silver Paint=3% CH; Other various roof material=ND			
Ceiling	24		Wool-batt insulation glued (black) to paper backing	diagonal sheathing	N	n/a

Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.

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YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Building: Building H - Administration **Room Name:** Exterior

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Ground	38		Asphalt		N	n/a
Ground	-		Concrete - bare & exposed		n/a	n/a
Walls	35		Exterior stucco, painted & vapor barrier		N	n/a
Windows	28		Exterior window putty		N	n/a
Eaves	35		Exterior stucco, painted		N	n/a
Roof	36		White coated foam on silver paint on rolled compositiong roofing	Diagonal sheathing	Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Rolled Composition Roofing & Felts=ND			
Roof	37		White coated foam on silver paint on penetration mastic		Y	N
	NOTE		Foam=ND; Silver Paint=2-4% CH; Mastics=Assumed			
	NOTE		On components such as, but not limited to, roof jacks, roof vents, conduits, sleepers, patches, etc.			

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R13 (CR 35) & R14 (CR 36) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	42	42A	Unfinished drywall (no T&J) with tackboard glue		N	n/a
Ceiling	41	41B	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R13 (CR 35) & R14 (CR 36) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R15 (CR 37) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	44	44A	Unfinished drywall (no T&J) with tackboard glue		N	n/a
Ceiling	43	43A	Lay-in panels 2'x4' fiberglass plastic jacketed	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R15 (CR 37) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R16 (CR 38) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		exposed studs above ceiling panels		n/a	n/a
Ceiling	41	41A	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R16 (CR 38) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R12 Restrooms **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		exposed studs above ceiling panels		n/a	n/a
Ceiling	45	45A	Lay-in panels 2'x4' vinyl jacketed drywall	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R12 Restrooms **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		N	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R10 Restrooms **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		exposed studs above ceiling panels		n/a	n/a
Ceiling	40	40A	Lay-in panels 2'x4' vinyl jacketed drywall	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R10 Restrooms **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	46	46A	Stucco finish over cement board		N	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R1-R9 (CRs 26-34) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	33	33A-C	Unfinished drywall (no T&J) with tackboard glue		N	n/a
Ceiling	34	34A-B	Lay-in panels 2'x4' gouge pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R1-R9 (CRs 26-34) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	39	39A-C	Stucco finish over cement board		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R18 (K3) & K19 (K4) **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		Fiberglass insulation above ceiling on walls		n/a	n/a
Ceiling	31	31B	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R18 (K3) & K19 (K4) **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R11 - Pre K **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Upper Walls	-		Fiberglass insulation above ceiling on walls		n/a	n/a
Ceiling	31		Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R11 - Pre K **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

YES Environmental, Inc.

1201 24th Street, Suite B110-377, Bakersfield, CA 93301 / (661) 527-0820

Client: Bakersfield City School District

Site: Wayside ES

YES Project No.: 23YES-05

Date of Inspection: 6/27/2023

Inspection Report

Building: R17 - Restroom Portable **Room Name:** Representative of ceilings & upper walls throughout

Component	HMR #	Sample #	Material Description	Substrate	Y/N	Y/N
Walls	32	32A	unfinished drywall (no T&J)		N	n/a
Ceiling	31	31A	Lay-in panels 2'x4' fissure pinhole pattern	F/G insulation	N	n/a
Ceiling	-		Fiberglass insulation	Metal roof deck	n/a	n/a
Ceiling	-		Metal roof deck		n/a	n/a
Inspection limited to ceilings and walls above the ceilings in these buildings for fire alarm work in accordance with BCSD plans.						

Building: R17 - Restroom Portable **Room Name:** Exterior upper walls only

Component	HMR #	Sample #	Material Description	Substrate	ACM Y/N	Friable Y/N
Walls	-		Wood		n/a	n/a
Inspection limited to upper exterior walls in these buildings for fire alarm work in accordance with BCSD plans.						

RED=contains asbestos

BLACK=no asbestos detected or non-suspect

Bakersfield City School District

1300 Baker Street
Bakersfield, CA 93305-4326
Phone: (661) 631-4600 Fax: (661) 861-9907

PURCHASE ORDER

No: **P24002916**

Date: 08/24/2023

VENDOR

SIGLER WHOLESALE DISTRIBUTORS
7021 SCHIRRA CT.
BAKERSFIELD, CA 93313

Phone: (661) 636-0792 **Fax:** (860) 622-6719

SHIP TO

Bakersfield City School District
Wayside Elementary
1000 Ming Avenue
Bakersfield, CA 93307

For: Maintenance, Operations and Facilities
WAYSIDE 22220.00-43-HVAC

Vendor # 295960

Buyer: Melissa Hernandez **Req #** R24003744

Terms: NET 30 DAYS **Due Date:** 09/20/2023

FOB: N/A **Ship Via:** OUR PICK-UP

ITEM	QUANTITY	UNIT ISSUE	DESCRIPTION
			WAYSIDE 22220.00-43-HVAC BID #23-06-01
1	2	EA	Carrier HP-4.A (3) Ton Unit, Model: 50GCQM04 Electric
2	32	EA	Carrier HP-7 (4) Ton Unit, Model: 50GCQM05 Electric
3	1	EA	Carrier HP-10 {1.5) Ton Unit, Model: 40MBCQ18 Electric IDU-(per plan)Indoor Unit
4	1	EA	Carrier HP-10 {1.5) Ton Unit, Model: 38MARBQ18 Electric ODU-(per plan)Outdoor Unit
5	2	EA	Carrier HP-11 (3) Ton Unit, Model: 40VMC012A Electric IDU-Gl Indoor Unit
6	1	EA	Carrier HP-11 (3) Ton Unit, Model: 38VMB036HD Electric ODU-B1 Outdoor
7	1	EA	Carrier HP-12 (3) Ton Unit, Model: 40MBFQ36 Electric IDU-Gl Indoor Unit
8	1	EA	Carrier HP-12 (3) Ton Unit, Model: 38MBRBQ36 Electric ODU-Gl Outdoor
			PRICING PER HVAC EQUIPMENT REPLACEMENT BID #23-06-01 BOARD APPROVAL DATE: AUGUST 8, 2023

Special Instructions to Vendor:

1. **Purchase order number must appear on all invoices, shipping papers and correspondence.**
2. **Submit itemized invoice to the Accounts Payable Office,**
   1300 Baker Street, Bakersfield, CA 93305
3. **Packing slip must accompany each delivery, showing PO number, serial number, and description.**
4. **No changes without authorization from the Purchasing Department.**
5. **If freight charges apply, prepay and add to invoice. No C.O.D. charges permitted.**
6. **Receiving hours: 8:00 a.m. - 4:00 p.m., Monday - Friday.**
7. **This PO is a covered transaction for purposes of 49 CFR Part 29. As such, the vendor/contractor certifies that to the best of its knowledge and belief that it and its principals are not presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.**
8. **MATERIAL SAFETY DATA SHEETS MUST BE SUPPLIED WHERE APPLICABLE**

AUTHORIZED SIGNATURE

David J. West

VENDOR

HP-4A	☐	50GCQJ04J2M6-0A3A0 2ea	3 Ton Heat Pump Rooftop Packaged Unit 460-3-60 • Two-Stage Cooling single circuit (SEER) • 460-3-60 • 3 Tons • Condensate overflow switch • Direct drive, EcoBlue, medium static fan • Al/Cu cond. coil - Al/Cu evap coil w/Hail Guards • Electro-Mechanical Ctl • Hinged access panels • Ion Generator • Factory Start-Up with 1st Year Labor Warranty
HP-4A		2ea	Time Guard II ***(Field Installed)***
HP-4A		2ea	Fan/Filter Status Switch ***(Field Installed)***
HP-4A		2ea	Phase Monitor Control ***(Field Installed)***
HP-4A		2ea	5.5 kW Electric Heat Strip ***(Field Installed)***
HP-4A		2ea	Hinged Access Door ***(Field Installed)***
HP-4A		2ea	Down Discharge Dry Bulb Economizer ***(Field Installed)***
HP-4A		2ea	14" Tall Pitched Welded Roof Curb ***(Field Installed) (Contractor to Verify Prior to Order)***

HP-7		50GCQJ05J2M6-0A3A0 32ea	4 Ton Heat Pump Rooftop Packaged Unit 460-3-60 • Two-Stage Cooling single circuit (SEER) • 460-3-60 • 4 Tons • Condensate overflow switch • Direct drive, EcoBlue, medium static fan • Al/Cu cond. coil - Al/Cu evap coil w/Hail Guards • Electro-Mechanical Ctl • Hinged access panels • Ion Generator • Factory Start-Up with 1st Year Labor Warranty
HP-7		32ea	Time Guard II ***(Field Installed)***
HP-7		32ea	Fan/Filter Status Switch ***(Field Installed)***
HP-7		32ea	Phase Monitor Control ***(Field Installed)***
HP-7		32ea	5.5 kW Electric Heat Strip ***(Field Installed)***
HP-7		32ea	Hinged Access Door ***(Field Installed)***
HP-7		32ea	Down Discharge Dry Bulb Economizer ***(Field Installed)***
HP-7		32ea	14" Tall Pitched Welded Roof Curb ***(Field Installed) (Contractor to Verify Prior to Order)***

HP-10		38MARBQ18AA3 1ea	1.5 Ton Heat Pump Condenser 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-10		40MBCQ18---3 1ea	1.5 Ton 4-Way Cassette Indoor Unit 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-10		1ea	Cassette Grille ***(Field Installed)***
HP-10		1ea	24V Interface Kit ***(Field Installed)***

HP-11		38VMB036HDS3-1 1ea	3 Ton Heat Pump VRF Condenser 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-11		1ea	Y-Joint ***(Field Installed)***
HP-11		40VMC012A--3 2ea	1 Ton 4-Way Cassette Indoor Unit 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-11		2ea	Cassette Grille ***(Field Installed)***
HP-11		2ea	24V Interface Kit ***(Field Installed)***
HP-12		38MBRCQ36AA3 1ea	3 Ton Heat Pump Condenser 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-12		40MBFQ36---3 1ea	3 Ton Underceiling Indoor Unit 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-12		1ea	24V Interface Kit ***(Field Installed)***
HP-12		1ea	Gobi Condensate Pump ***(Field Installed)***

Bid Excludes:

- Smoke Detectors
- Convenience Outlets
- Disconnects
- Thermostats, Thermostat Wire & Conduit
- DDC Controls, Control Sensors, Controls Switches, Unitary Interface Controllers
- Parts & Labor For Test & Balance
- Parts & Accessories for Existing Equipment
- Extended Warranties
- Maintenance & Service Contracts, Occupancy Adjustments, and Periodic Cleaning
- Owner Training
- Functional Testing or Equipment Demonstration
- IECC 3rd Party Commissioning Support
- Equipment not mentioned above

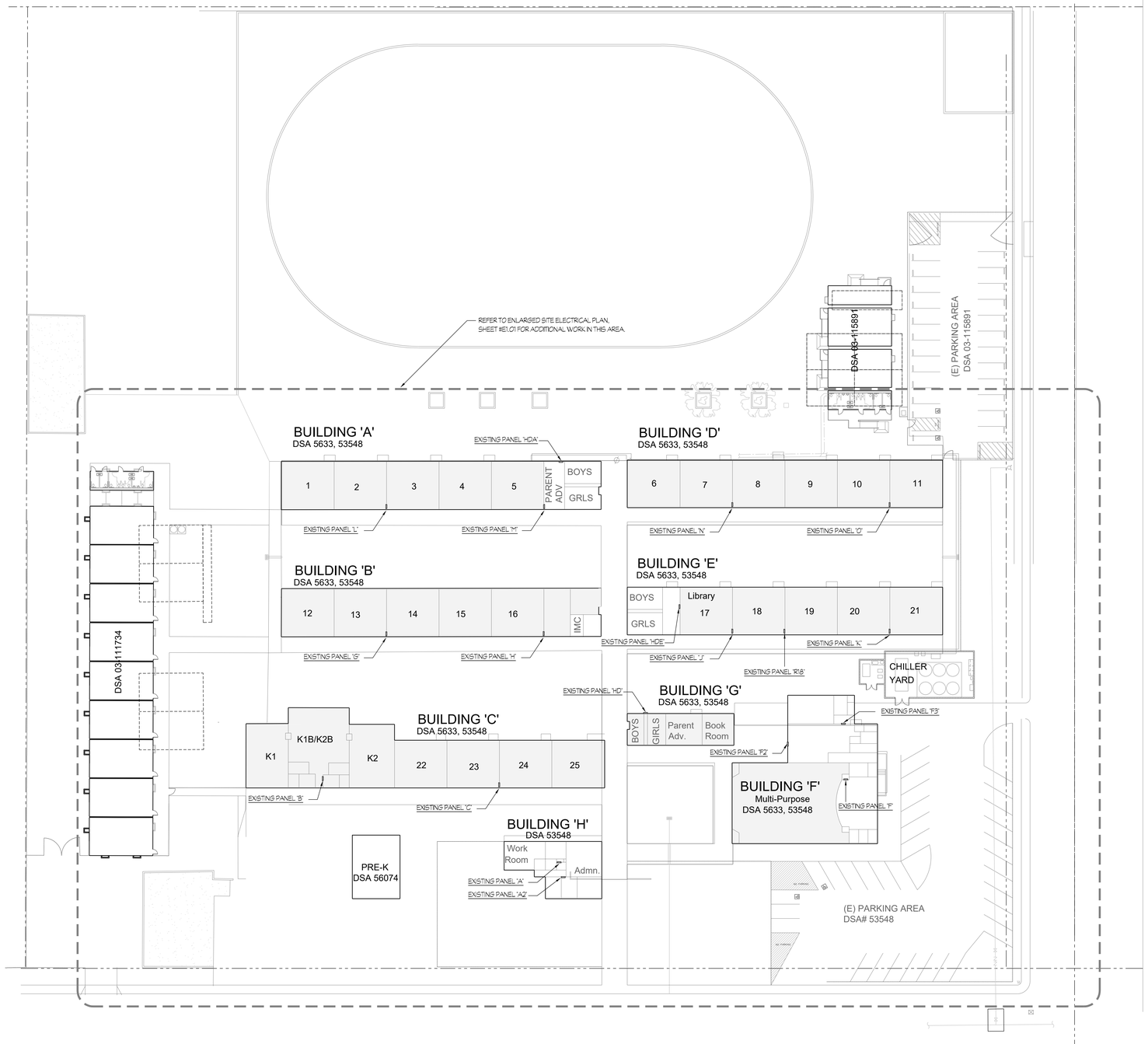
Package Units

Excludes:

- **Pleated Filters and Spare Sets of Filters**
- Spare Belts, Drives/ Pulleys
- Roof Curb Adapters or Duct Transitions (If existing is Carrier, an adapter may not be required)
- Roof Curb Cant Strip and Insulation
- External Vibration Isolation Roof Curbs/ Mounts/ Rails/ Seismic Restraints

Warranty:

- 1st Year Complete Unit Parts Only
- 5 Year Compressor Parts Only
- 10 Year Heat Exchanger Parts Only



SITE ELECTRICAL PLAN

CENTRAL PLANT REPLACEMENT

SCALE: 1" = 30'-0"

1" = 50'-0" 0 50 100 150

1" = 40'-0" 0 40 80 120

1" = 30'-0" 0 30 60 90

1" = 20'-0" 0 20 40 60

1/8" = 1'-0" 0 8 16 24

1/4" = 1'-0" 0 4 8 12

Z:\Archive\Jobs\RDS\SCHOOLS\Bakersfield\Bakersfield City School District\Wayside Elementary - HVAC\E1.00.dwg DATE: SAVED: 11/14/22 BY: Phoebe DATE: PLOTTED: 02/17/23 JOB # 22-118-3E

SCOPE OF WORK

PURCHASE EQUIPMENT ONLY

DSA APP# 03-122531

EQUIPMENT BID PACKAGE
02/17/23

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

EXHIBIT-1 ALTERNATE BID # 1

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

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Sheet Title:

SITE ELECTRICAL PLAN

Job No.: **5526**

Sheet No.: E1.00

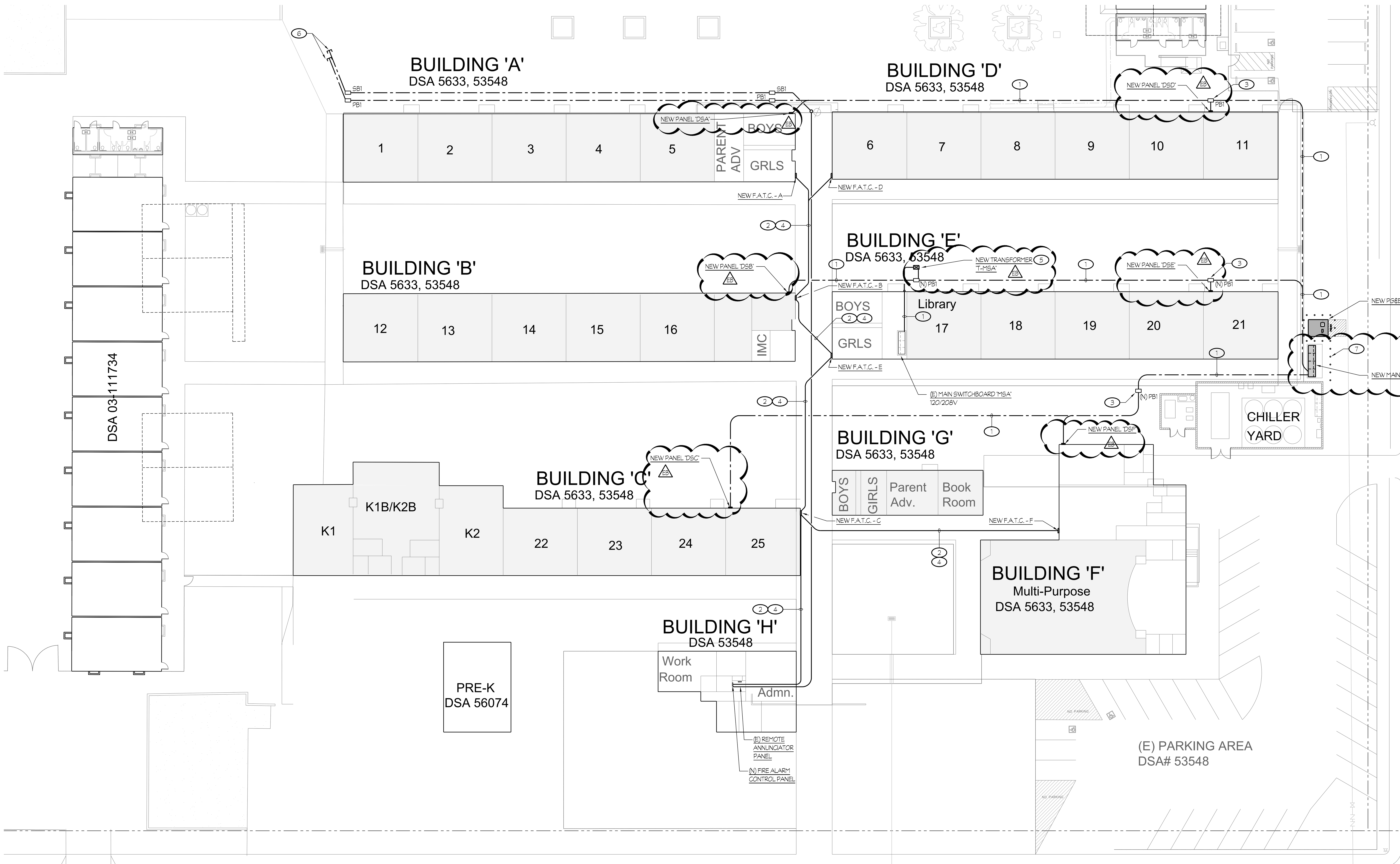
Release: DSA BACKCHECK Issue Date: 12-05-2022

SCOPE OF WORK

PURCHASE EQUIPMENT ONLY

NOTES (THIS SHEET ONLY):

1. REFER TO ONE LINE DIAGRAM SHEET #E4.01 FOR REQUIREMENTS.
2. PROVIDE NEW FIRE ALARM CABLES PER RISER DIAGRAM SHEET #E3.21.
3. PROVIDE PULL BOX PER DETAIL #5/E5.00.
4. ROUTE EXPOSED CONDUITS ALONG COVERED WALKWAY. TYPICAL FOR FIRE ALARM ROUTES. REFER TO DETAILS #11 AND #12/E5.00.
5. REFER TO TRANSFORMER PER DETAIL #9/E5.00.
6. STUB OUT CONDUIT FOR FUTURE PORTABLE CLASSROOMS, REFER TO ONE LINE DIAGRAM SHEET #E4.01 AND FIRE ALARM SYSTEM RISER DIAGRAM, SHEET #E3.21.
7. REFER TO DETAIL #10/E5.00 FOR REQUIREMENTS.



ENLARGED SITE ELECTRICAL PLAN

CENTRAL PLANT REPLACEMENT

SCALE: 1" = 20'-0"

DSA APP# 03-122531

EQUIPMENT BID PACKAGE
02/17/23

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Electrical Consultants
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Visalia, California 93292-6705

EXHIBIT-1 ALTERNATE BID # 1

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
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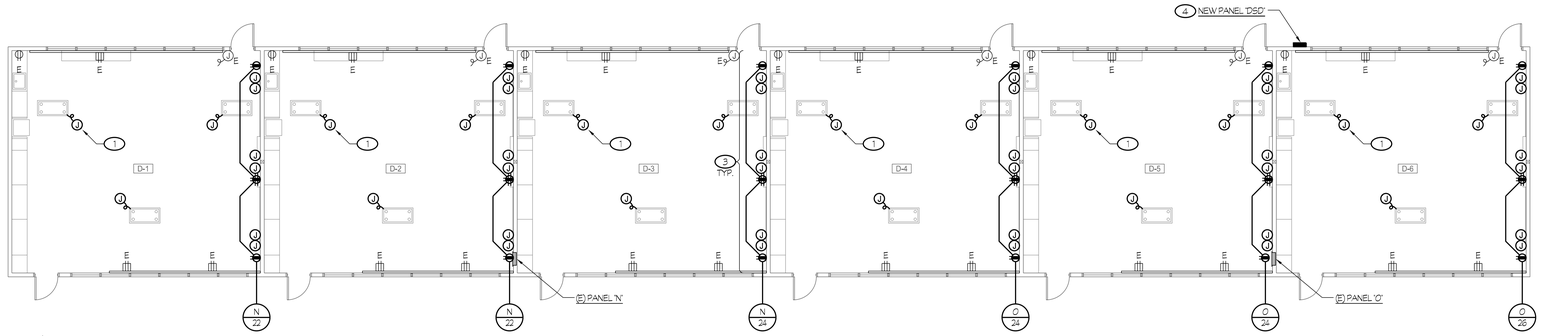
Sheet Title:
ENLARGED SITE ELECTRICAL PLAN

Job No.: 5526

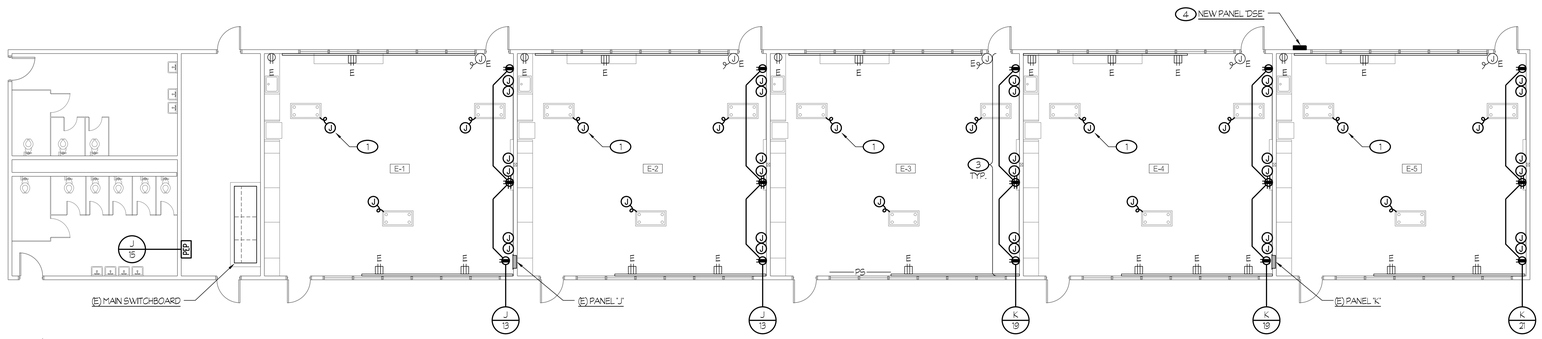
Sheet No.: E1.01

Release: DSA BACKCHECK Issue Date: 12-05-2022



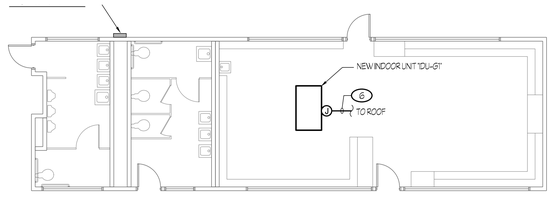
1 NEW POWER PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8 = 1'-0"



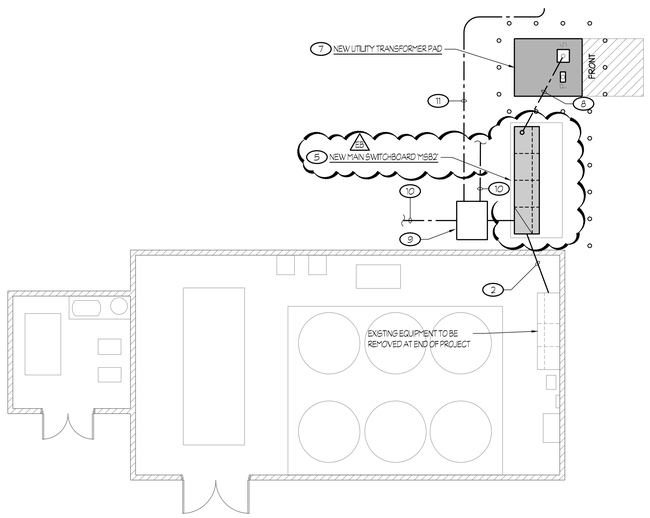
2 NEW POWER PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8 = 1'-0"



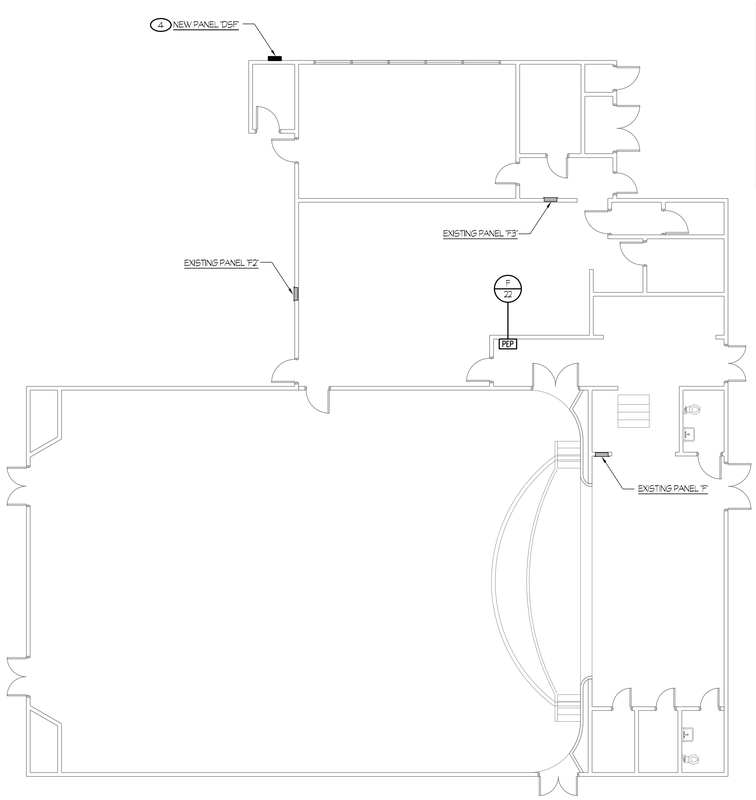
5 NEW POWER PLAN - BUILDING "G"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8 = 1'-0"



3 NEW POWER PLAN - CHILLER YARD
CENTRAL PLANT REPLACEMENT

SCALE: 1/8 = 1'-0"



4 NEW POWER PLAN - BUILDING "F"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8 = 1'-0"

NOTES (THIS SHEET ONLY):

1. RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.
2. TEMPORARY CONNECTION TO EXISTING EQUIPMENT PER ONE-LINE DIAGRAM.
3. REFER TO DETAIL #2/E0.01 FOR TYPICAL TEACHER WALL ELEVATION.
4. REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.
5. REFER TO DETAIL #7/E5.00 FOR MOUNTING REQUIREMENTS.
6. PROVIDE 3/4"C - 2 #12 + 1 #12 GND.
7. PROVIDE NEW UTILITY PAD PER APPROVED UTILITY DRAWINGS AND PG&E STANDARDS 045292.
8. PROVIDE SECONDARY CONDUCTORS PER APPROVED UTILITY DRAWINGS (EXPECTED TO BE (6) 4" CONDUITS).
9. PROVIDE NEW VAULT STYLE PULL BOX FOR ROUTING OF CONDUITS. REFER TO DETAIL #5/E5.00.
10. NEW CONDUITS AND CONDUCTORS PER ONE LINE DIAGRAM ON SHEET #E4.01. REFER TO SITE PLAN #E1.01 FOR CONTINUATION.
11. NEW CONDUIT AND CONDUCTORS FOR RECONNECTION OF EXISTING FEEDS PER ONE LINE DIAGRAM ON SHEET #E4.01.
12. FIELD VERIFY PICK-UP POINT FOR EXISTING FEEDERS AND ROUTE AROUND NEW CONSTRUCTION AS REQUIRED.

GENERAL NOTES

1. EXISTING RECEPTACLES SHALL REMAIN INCLUDING RESPECTIVE CIRCUITS.

SCOPE OF WORK

PURCHASE EQUIPMENT ONLY

ROOM LEGEND	
#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	CLASSROOM
D-5	CLASSROOM
D-6	LIBRARY

ROOM LEGEND	
#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

ROOM LEGEND	
#	ROOM NAME
F-1	ASSEMBLY CAFETERIA
F-2	STAGE
F-3	KITCHEN
F-4	FACULTY DINING

DSA APP# 03-122531

EQUIPMENT BID PACKAGE
02/17/23

Rose Sing Eastham & Associates
Electrical Consultants
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Visalia, California 93292-6705

EXHIBIT-1 ALTERNATE BID # 1

Owner:
BCSD BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

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by SOMAM, Inc.

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Sheet Title:
NEW POWER PLANS - BLDGS D, E & CHILLER YARD

Job No.: **5526**

Sheet No.: E2.11

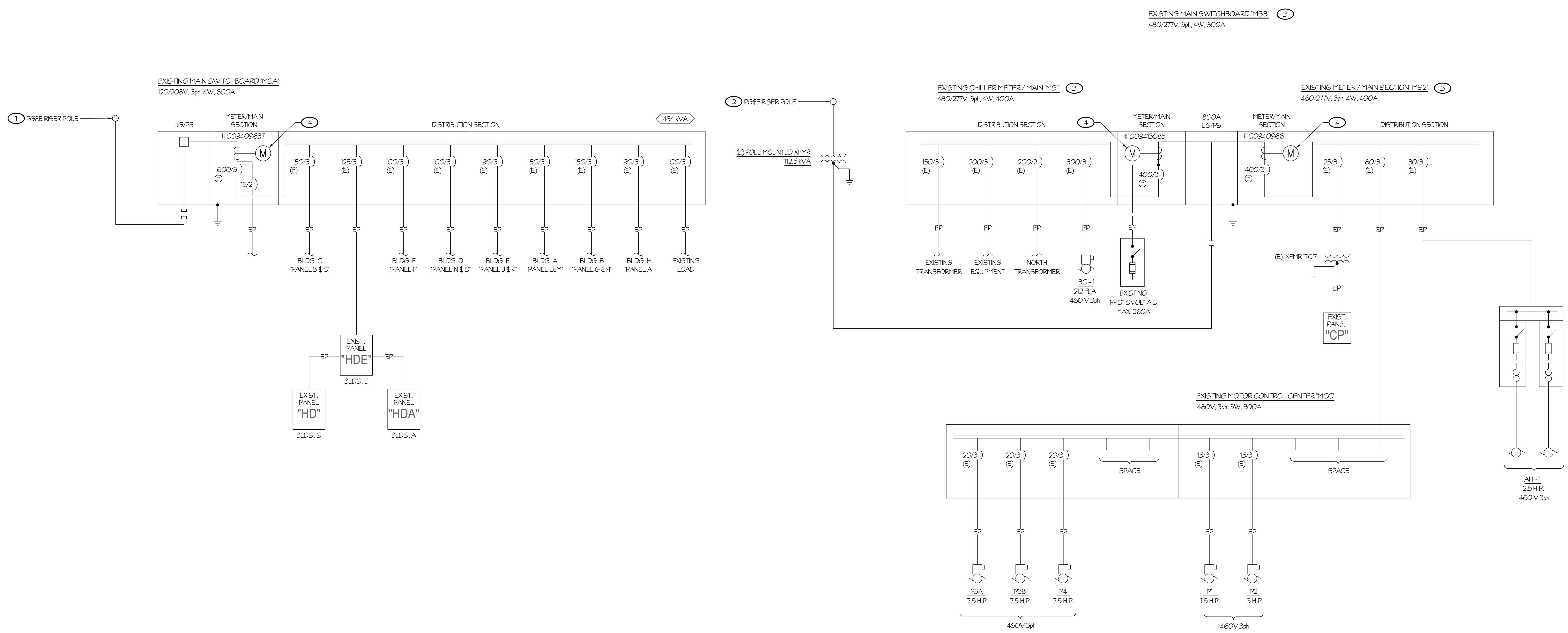
Release: DSA BACKCHECK Issue Date: 12-05-2022

NOTES (THIS SHEET ONLY):

1. EXISTING UTILITY FEED SHALL BE DISCONNECTED. PROVIDE NEW CONNECTION FROM NEW XFMR 'TMSA' TO FEED EXISTING BOARD 'MSA', AS SHOWN ON SHEET E4.01.
2. EXISTING UTILITY FEED SHALL BE DISCONNECTED. PROVIDE NEW CONNECTION FROM NEW BOARD 'MSB2' TO FEED EXISTING BOARD 'MSB' DURING CONSTRUCTION, AS SHOWN ON SHEET E4.01.
3. EXISTING CHILLER EQUIPMENT SHALL REMAIN IN SERVICE DURING CONSTRUCTION ACTIVITIES. EQUIPMENT SHALL BE DISCONNECTED AND REMOVED AT THE END OF NEW CONSTRUCTION.
4. RETURN UTILITY METER EQUIPMENT TO UTILITY COMPANY AND PROVIDE CONNECTION TO POWER DISTRIBUTION BOARDS.
5. ——EP—— DENOTES EXISTING FEEDER AND/OR 'SPARE' CONDUIT(S) SHALL REMAIN, UNLESS OTHERWISE NOTED.

SCOPE OF WORK

PURCHASE EQUIPMENT ONLY



DSA APP# 03-122531

EQUIPMENT BID PACKAGE
02/17/23

1 **ONE LINE DIAGRAM - DEMO**
CENTRAL PLANT REPLACEMENT

NTS

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER
No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

EXHIBIT-1 ALTERNATE BID # 1

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
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Sheet Title:
ONE LINE DIAGRAM - DEMO

Job No.:
5526

Sheet No.:
E4.00

Release: DSA BACKCHECK Issue Date: 12-05-2022

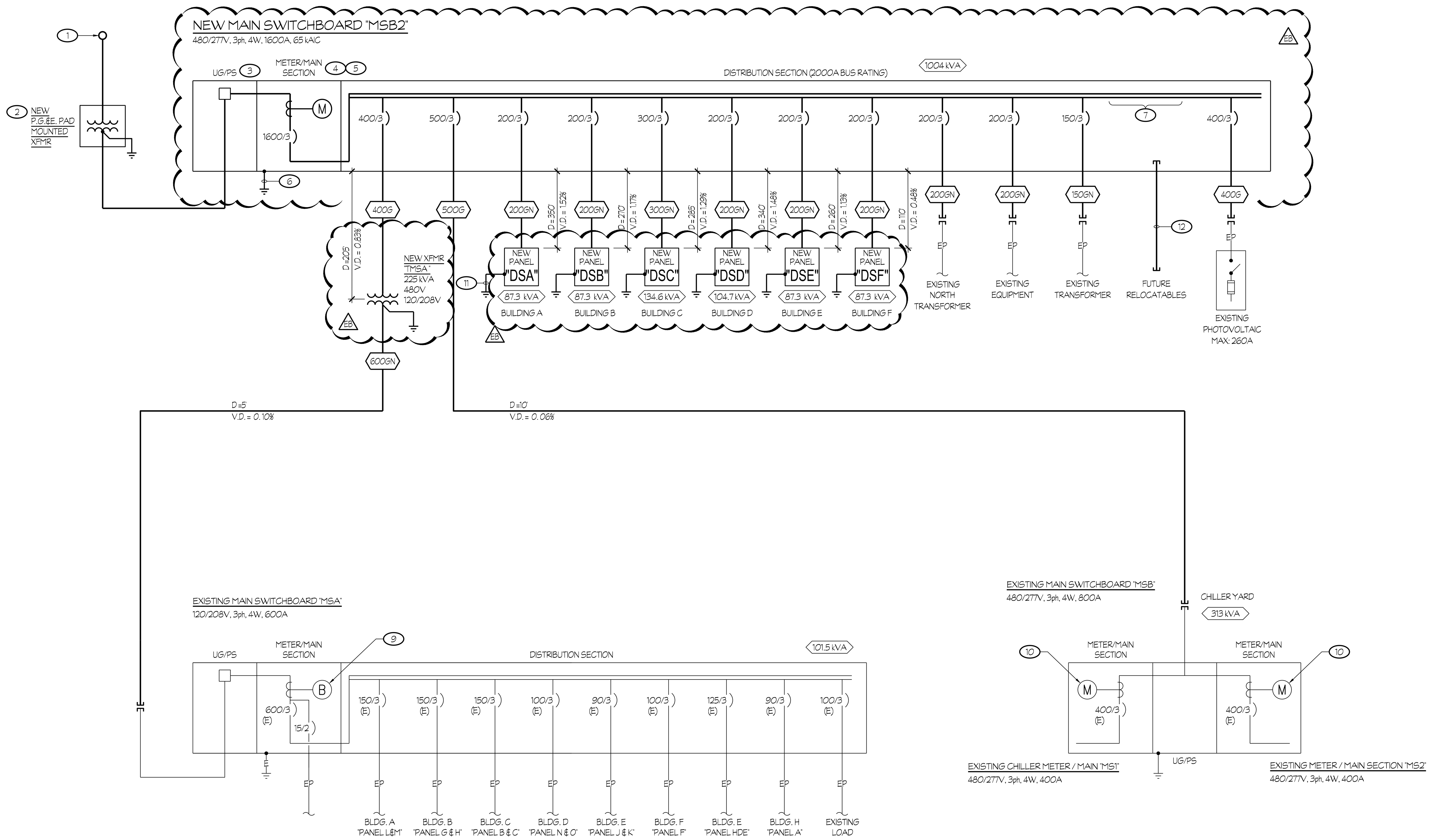
NEW MAIN SWBD "MSB" LOAD CALCULATION:

MAXIMUM DEMAND PER P.G. & E. RECORDS	332.2 kVA
FOR MAIN SWBD "MSA" (METER 1009409637)	332.2 kVA
FOR MAIN SWBD "MSB1" (METER 1009413085)	218.2 kVA
FOR MAIN SWBD "MSB2" (METER 1009409661)	32.8 kVA
PLUS DEMAND FACTOR PER C.E.C. 220.35	83.1 kVA
SUB-TOTAL	415.3 kVA
NEW "CONNECTED" LOAD BEING ADDED	588.3 kVA
H.V.A.C. x 125% ... 588.3 kVA	
SUB-TOTAL	1003.6 kVA
FUTURE CLASSROOM BUILDING	150 kVA
TOTAL	1154 kVA
AT 480/277V 3ph 4W	1388 AMPS

THEREFORE, THE EXISTING/NEW 1600 AMP MAIN SWITCHBOARD IS SUFFICIENT.

NOTES (THIS SHEET ONLY):

1. EXISTING P.G.&E. POWER POLE. VERIFY EXACT LOCATION AND RISER QUADRANT WITH P.G.&E PRIOR TO ROUGH-IN.
2. PROVIDE A 106" x 90" CONCRETE PAD (STYLE II E) AND GROUNDING FOR P.G.&E. PAD MOUNTED TRANSFORMER PER P.G.&E. REQUIREMENTS.
3. PROVIDE LANDING LUGS PER P.G.&E. REQUIREMENTS.
4. PROVIDE METERING FACILITIES PER P.G.&E. REQUIREMENTS.
5. MAIN CIRCUIT BREAKER SHALL BE 100% RATED ELECTRONIC TYPE, EQUIPPED WITH LONG- TIME, SHORT-TIME, INSTANTANEOUS-OFF TYPE AND GROUND FAULT TYPE CONFIGURATIONS. MAIN CIRCUIT BREAKER SHALL ALSO BE EQUIPPED WITH A TRIP INDICATOR AND LOCAL CURRENT METER. SQUARE D #RK SERIES OR EQUAL.
6. 1 #3/0 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #15/E5.00.
7. PROVIDE WITH SPACE AND MOUNTING HARDWARE FOR MINIMUM (4) 400A FRAMES.
8. ——EP—— DENOTES EXISTING FEEDER AND/OR 'SPARE' CONDUIT(S) SHALL REMAIN, UNLESS OTHERWISE NOTED.
9. COORDINATE WITH P.G.&E. TO REMOVE METER SOCKET AND PROVIDE BLANK METER SOCKET COVER.
10. RETURN UTILITY METER EQUIPMENT TO UTILITY COMPANY AND PROVIDE CONNECTION TO POWER DISTRIBUTION BOARDS.
11. 1 #2 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #16/E5.00.
12. (2) 3" CONDUITS FOR FUTURE USE.



NEW FEEDER SCHEDULE:

(ALL UNDERGROUND CONDUCTORS, OF A 480/277V POWER SYSTEM, SHALL BE TYPE CU-XHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-THWN-2 FOR #8 AWG OR LARGER AND CU-THWN FOR #10 AWG OR SMALLER).

150GN	1 1/2"C - 4 #1 + 1 #6 GND.
200GN	2 1/2"C - 4 #4/0 + 1 #4 GND.
300GN	3"C - 4 #350 kcmil + 1 #2 GND.
400G	3"C - 3 #500 + 1 #1/0 GND.
500G	(2) 3"C - 4 #3/0 + 1 #2 GND EACH.
600GN	(2) 3 1/2"C - 4 #350kcmil + 1 #1 GND EACH.

SCOPE OF WORK

PURCHASE EQUIPMENT ONLY

1 ONE LINE DIAGRAM

CENTRAL PLANT REPLACEMENT

NTS

DSA APP# 03-122531

EQUIPMENT BID PACKAGE
02/17/23

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

EXHIBIT-1 ALTERNATE BID # 1

Owner:
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
WAYSIDE ELEMENTARY SCHOOL
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BAKERSFIELD, CA 93307

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Sheet Title:
ONE LINE DIAGRAM

Job No.:
5526

Sheet No.:
E4.01

Release: DSA BACKCHECK Issue Date: 12-05-2022

277/480V, 3 PH, 4 W
200 A. BUSSING 200 A. MAIN BKR.
42 CIRCUIT

PANEL "DSA"

14K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER #6/E5.00

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	25/3	5817							5817	25/3	2
3			5817		AC-A1	AC-A4		5817			4
5				5817			5817				6
7	25/3	5817							5817	25/3	8
9			5817		AC-A2	AC-A5		5817			10
11				5817			5817				12
13	25/3	5817				SPACE					14
15			5817		AC-A3	SPACE					16
17				5817		SPACE					18
19					SPACE	SPACE					20
21					SPACE	SPACE					22
23					SPACE	SPACE					24
25					SPACE	SPACE					26
27					SPACE	SPACE					28
29					SPACE	SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35											36
37											38
39					SPACE	SPACE					40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	29085	29085	29085	TOTAL CALCULATED
25% LCL/LML (VA) :	0	0	0	LOAD FOR PANEL:
TOTAL LOAD (VA) :	29085	29085	29085	87255 VA
TOTAL LOAD (AMPS) :	105.0	105.0	105.0	

277/480V, 3 PH, 4 W
400 A. BUSSING 300 A. MAIN BKR.
42 CIRCUIT

PANEL "DSC"

14K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER #6/E5.00

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	25/3	5817							5817	20/3	2
3			5817		AC-C1	AC-C4		5817			4
5				5817			5817				6
7	20/3	4986							5817	25/3	8
9			4986		AC-C2	AC-C5		5817			10
11				4986			5817				12
13	20/3	4986							5817	25/3	14
15			4986		AC-C3	AC-C6		5817			16
17				4986			5817				18
19	25/3	5817							5817	25/3	20
21			5817		AC-C7	AC-C8		5817			22
23				5817			5817				24
25						SPACE					26
27					SPACE	SPACE					28
29						SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35											36
37											38
39					SPACE	SPACE					40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	44874	44874	44874	TOTAL CALCULATED
25% LCL/LML (VA) :	0	0	0	LOAD FOR PANEL:
TOTAL LOAD (VA) :	44874	44874	44874	134622 VA
TOTAL LOAD (AMPS) :	162.0	162.0	162.0	

277/480V, 3 PH, 4 W
200 A. BUSSING 200 A. MAIN BKR.
42 CIRCUIT

PANEL "DSE"

14K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER #6/E5.00

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	25/3	5817							5817	25/3	2
3			5817		AC-E1	AC-E4		5817			4
5				5817			5817				6
7	25/3	5817							5817	25/3	8
9			5817		AC-E2	AC-E5		5817			10
11				5817			5817				12
13	25/3	5817				SPACE					14
15			5817		AC-E3	SPACE					16
17				5817		SPACE					18
19					SPACE	SPACE					20
21					SPACE	SPACE					22
23					SPACE	SPACE					24
25					SPACE	SPACE					26
27					SPACE	SPACE					28
29					SPACE	SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35											36
37											38
39					SPACE	SPACE					40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	29085	29085	29085	TOTAL CALCULATED
25% LCL/LML (VA) :	0	0	0	LOAD FOR PANEL:
TOTAL LOAD (VA) :	29085	29085	29085	87255 VA
TOTAL LOAD (AMPS) :	105.0	105.0	105.0	

277/480V, 3 PH, 4 W
200 A. BUSSING 200 A. MAIN BKR.
42 CIRCUIT

PANEL "DSB"

14K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER #6/E5.00

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	25/3	5817							5817	25/3	2
3			5817		AC-B1	AC-B4		5817			4
5				5817			5817				6
7	25/3	5817							5817	25/3	8
9			5817		AC-B2	AC-B5		5817			10
11				5817			5817				12
13	25/3	5817				SPACE					14
15			5817		AC-B3	SPACE					16
17				5817		SPACE					18
19					SPACE	SPACE					20
21					SPACE	SPACE					22
23					SPACE	SPACE					24
25					SPACE	SPACE					26
27					SPACE	SPACE					28
29					SPACE	SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35											36
37											38
39					SPACE	SPACE					40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	29085	29085	29085	TOTAL CALCULATED
25% LCL/LML (VA) :	0	0	0	LOAD FOR PANEL:
TOTAL LOAD (VA) :	29085	29085	29085	87255 VA
TOTAL LOAD (AMPS) :	105.0	105.0	105.0	

277/480V, 3 PH, 4 W
200 A. BUSSING 200 A. MAIN BKR.
42 CIRCUIT

PANEL "DSD"

14K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER #6/E5.00

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	25/3	5817							5817	25/3	2
3			5817		AC-D1	AC-D4		5817			4
5				5817			5817				6
7	25/3	5817							5817	25/3	8
9			5817		AC-D2	AC-D5		5817			10
11				5817			5817				12
13	25/3	5817							5817	25/3	14
15			5817		AC-D3	AC-D6		5817			16
17				5817			5817				18
19					SPACE	SPACE					20
21					SPACE	SPACE					22
23					SPACE	SPACE					24
25					SPACE	SPACE					26
27					SPACE	SPACE					28
29					SPACE	SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35											36
37											38
39					SPACE	SPACE					40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	34902	34902	34902	TOTAL CALCULATED
25% LCL/LML (VA) :	0	0	0	LOAD FOR PANEL:
TOTAL LOAD (VA) :	34902	34902	34902	104706 VA
TOTAL LOAD (AMPS) :	126.0	126.0	126.0	

277/480V, 3 PH, 4 W
200 A. BUSSING 200 A. MAIN BKR.
42 CIRCUIT

PANEL "DSF"

14K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER #6/E5.00

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	30/3	6925							6925	30/3	2
3			6925		AC-F1	AC-F4		6925			4
5				6925			6925				6
7	30/3	6925							6925	30/3	8
9			6925		AC-F2	AC-F5		6925			10
11				6925			6925				12
13	30/3	6925				SPACE					14
15			6925		AC-F3	SPACE					16
17				6925		SPACE					18
19					SPACE	SPACE					20
21					SPACE	SPACE					22
23					SPACE	SPACE					24
25					SPACE	SPACE					26
27					SPACE	SPACE					28
29					SPACE	SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35											36
37											38
39					SPACE	SPACE					40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	34625	34625	34625	TOTAL CALCULATED
25% LCL/LML (VA) :	0	0	0	LOAD FOR PANEL:
TOTAL LOAD (VA) :	34625	34625	34625	103875 VA
TOTAL LOAD (AMPS) :	125.0	125.0	125.0	

EB

SCOPE OF WORK

PURCHASE EQUIPMENT ONLY

DSA APP# 03-122531

EQUIPMENT BID PACKAGE
02/17/23

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

EXHIBIT-1 ALTERNATE BID # 1

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
E: design@somam.com
integrateddesigns.com

Stamp:

Sheet Title:

PANEL SCHEDULES

Job No.: 5526

Sheet No.: E4.02

Release: DSA BACKCHECK Issue Date: 12-05-2022

BCUSD Wayside Elementary School
Bakersfield, CA 93307
HVAC Replacement

DSA App #: 03-122531

JOB WALK REQUIREMENTS

The District has elected to waive the mandatory job walk requirements included in the Notice to Bidders. No bidders will be required to submit the job walk certification of attendance.

JOB WALK SIGN IN SHEET – MANDATORY FOR BP 01, 08, 09

Project:	Wayside Elementary School HVAC Replacement	**Meeting Date:**	April 17th, 2024
Facilitator:	S.C Anderson, Inc / B.C.S.D	**Place/Room:**	In Front of School

Name	Company	Phone	E-Mail
MAGY REZK	HORIZon Construct.	714 7284276 / 714 6260000	Kinan@horizonconscci.com / horizonscci@yahoo.com
Howard Rodriguez	Resource Inc.	(530) Chase 379-6687	Chase@Resource-Envi.com
Chad Givens	SCA	(661) 330-8944	givensc@scanderson.com
~~TOMMY WILLIS~~	~~SCA~~	~~661-549-0188~~	~~willist@SCANDERSON.COM~~
Kerry Thompson	SCA	661 304 3785	kthompson@scanderson.com
Jesse Anevalo	ASI INC	661-327-2900	jesse@asi-inc.net
Daniel Sanchez	PARC Environmental	559-999-5427	dsanchez@parcenvironmental.com
CRAIG HENRIKSEN	EMCOR/MESA ENERGY	661 335-1500	chenriksen@emcor.net
Jaime Sanchez Ayala / Mark Worthington	Valley Unique Electric & Solar	559-494-2788	Mark@valleyunique.com
Jennifer Gangl	JTS Construction	661-835-9270	estimating@jtsconstruction.com
GILBERT GONZALEZ	GBI ELECTRIC	818 262-3669	gbielectric@OUTLOOK.com
DAN ALEXANDER	A-C ELECTRIC COMPANY	661 304-4189	DANALEXANDER@A-CELECTRIC.COM
Gabriel Fimbres	Plaster Works Inc.	661 4777774	plasterworks@aol.com
George Chmaid	Michael Surface Solutions	661-688-0088	george@michaelsurfacesolution.com
Marco Padilla	Michael Surface Solutions	661 688 0088	marco@michaelsurfacesolutions.com
Phillip Roe	Integrated Demolition and Remediation Inc	909 732 6394	jay@idrdemo.com
Anthony Osburn	Wm B Saleh	661 333 8842	anthony@salehcompany-bks.com
Kristy Yowell	YES Environmental, Inc	661-477-4462	kristy@yowellenvironmental.com

Name	Company	Phone	E-Mail
Eric Caywood	CCU Demo	699-4632	eric@ccudemolition.com
DANIEL WASTAFERRO	BCSD	661-631-5883	wastaferrock@bcsd.com
DAniel Bowen	Bowen Eng	5592337464	OFFICE@bowendemo.com
DONNIE HENSLEY	SKYCON ELECTRIC	661-213-4141 661-330-1292	DONNIE@SKYCONELECTRIC.com
TERRY Johnson	SCA	661 281 8178	johnsonT@SCAnickson.com
Jack Garcia	SCA	661-392-7000	estimating@scaerickson.com
PHILIP FERDINANDS	SCA / LATE	661-322-1633	phil@journeysc.com

UPDATE: 5/2/2024
CHAD GIVENS

Construction Entrance

Contractor staging

Contractor staging

TEMP

SOLAR PANELS

SOLAR PANELS

PHASE III (BLDG A)

PHASE I (BLDG D)

PHASE IV (BLDG B)

PHASE II (BLDG E)

PHASE V (BLDG C)

PHASE I BLDG G

PHASE V (MPR)

S P STREET

MING AVE,

THREE PHASE LEGEND

- PHASE I
- PHASE II
- PHASE III
- PHASE IV
- PHASE V

SCALE: 1" = 60'-0"

0 60' 120'

G:\2022frs\22-5566 BCSD Wayside ES Temp Classrooms\Design\Presentation\230828_Temp Portables

Bakersfield City School District
1300 Baker Street
Bakersfield, CA 93305

PHASING PLAN

Wayside Elementary School

integrated designs
by SOMAM, Inc.
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN
PROJECT MANAGEMENT
Phone (559)436-0881 • www.integrateddesigns.com

1

08/28/2023

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Printed on Fri May 3, 2024 at 01:48 pm PDT

Job #: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
13	Steel Joist Retrofit	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	05/01/2024	Kerry Thompson	05/08/2024	05/02/24					
12	Light Well Detail	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	05/01/2024	Kerry Thompson	05/08/2024	05/02/24					
11	Roofing	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	05/01/2024	Kerry Thompson	05/08/2024	05/03/24					
10	CPM Schedule	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	05/01/2024	Kerry Thompson	05/08/2024	05/02/24					
9	Lighting Control Warranty	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	05/02/24					Yes (Unknown)
8	Flooring Entry Mat	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	04/30/24					Yes (Unknown)
7	Flooring Spec	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	04/30/24					Yes (Unknown)
6	Fire Alarm Conduit for Future Portables	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG...	04/29/2024	Kerry Thompson	05/06/2024	05/03/24					Yes (Unknown)

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Printed on Fri May 3, 2024 at 01:48 pm PDT

Job #: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
					Ceballos, Felipe ... Hoskins, Christin...									
5	Job Walk Attendance Sheet	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	05/02/24					
4	Electrical Panels	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	05/03/24			Yes (Unknown)		Yes (Unknown)
3	Painting Plaster (BP 07)	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	05/02/24					Yes (Unknown)
2	Painting of Conduits (BP 07)	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/29/2024	Kerry Thompson	05/06/2024	05/03/24					Yes (Unknown)
1	Suspended Ceiling Light Fixture Blocking	Closed	S.C. Anderson, Inc.	Jannino, Joe (S.C. Anderson, Inc.)	Strom, Tad (INTEG... Ceballos, Felipe ... Hoskins, Christin...	04/11/2024	Kerry Thompson	04/18/2024	04/16/24			Yes (Unknown)		Yes (Unknown)

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #1: Suspended Ceiling Light Fixture Blocking

Status	Open		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 11, 2024	**Due Date**	Apr 18, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	Yes (Unknown)
Spec Section		**Cost Code**	
Drawing Number	A8.01	**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To	Chad Givens (S.C. Anderson, Inc.), Terry Johnson (S.C. Anderson, Inc.)		

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 10, 2024 at 01:47 PM PDT*

Detail 1/E5.00 refers to Architectural Detail 9/A8.01.
Details 8,9/A8.01 show suspended light fixture/brace wire to roof system connections.
Detail 8/A8.01 shows bracing wire connecting to existing joists/rafters.
Detail 8/A8.01 also shows similar conditions connecting to newly installed roof blocking.
Is it acceptable for all new suspended light fixture bracing wire to connect to existing members in lieu of new blocking?

Awaiting an Official Response

Date: 04/16/2024 08:11 AM

RFI #5526-01 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos
From: Tad Strom

Response Needed By: 04/18/2024
Response Received: 04/18/2024

Information Requested: Detail 1/E5.00 refers to Architectural Detail 9/A8.01.
Details 8,9/A8.01 show suspended light fixture/brace wire to roof system connections.
Detail 8/A8.01 shows bracing wire connecting to existing joists/rafters.
Detail 8/A8.01 also shows similar conditions connecting to newly installed roof blocking.
Is it acceptable for all new suspended light fixture bracing wire to connect to existing members in lieu of new blocking?

Response: It is acceptable to anchor the brace wire to existing roof members.
Furnish blocking if there is no suitable place to anchor in the existing structure.

Description
Suspended Ceiling Light Fixture Blocking

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #2: Painting of Conduits (BP 07)

Status	Closed on 05/03/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 02:36 PM PDT*

In reference to painting exposed electrical conduits, there are no notes on electrical drawings as to which exposed conduits you are referring to. Mechanical drawings have such notes (Paint Piping exposed to weather, Keynote 6 Sheet M2.11).

Can you please clarify with Notes on electrical drawings which exposed electrical conduits are to be painted.

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Friday, May 3, 2024 at 11:22 AM PDT*

Refer to Revised Bid Package 07 Painting provided in Addendum 2 for clarification.

Joe Jannino
Chief Estimator
S.C. Anderson

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #3: Painting Plaster (BP 07)

Status	Closed on 05/02/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 02:37 PM PDT*

In reference to exterior painting of plaster patches / infill opening, what is the extent of painting, (for instance refer to Sheet A2.21 Floor Plan Bldg E, with the typical Key Note 1), Are we to paint the immediate location say 4’ x 4’ or do you expect painting the wall top to bottom along the width of the infill.

Please clarify the extent of painting of exterior patches.

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Thursday, May 2, 2024 at 02:04 PM PDT*

Date: 04/19/2024 10:44 AM

RFI #5526-03 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: Dimitri Saleh (Omega Const Co)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Tad Strom

Response Needed By: 04/25/2024
Response Received: 04/29/2024

Information Requested: In reference to exterior painting of plaster patches / infill opening, what is the extent of painting, (for instance refer to Sheet A2.21 Floor Plan Bldg E, with the typical Key Note 1), Are we to paint the immediate location say 4’ x 4’ or do you expect painting the wall top to bottom along the width of the infill.
Please clarify the extent of painting of exterior patches.

Response: Paint an approximately 48” square area at patches.

Attachments
Prebid RFI 03 5526 03 Paint Patches.pdf

Date: 04/19/2024 10:44 AM

RFI #5526-03 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: Dimitri Saleh (Omega Const Co)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Tad Strom

Response Needed By: 04/25/2024
Response Received: 04/29/2024

Information Requested: In reference to exterior painting of plaster patches / infill opening, what is the extent of painting, (for instance refer to Sheet A2.21 Floor Plan Bldg E, with the typical Key Note 1), Are we to paint the immediate location say 4’ x 4’ or do you expect painting the wall top to bottom along the width of the infill.

Please clarify the extent of painting of exterior patches.

Response: Paint an approximately 48” square area at patches.

Description
Painting patches

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #4: Electrical Panels

Status	Closed on 05/03/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	Yes (Unknown)
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 02:39 PM PDT*

Has the district Purchased the Switchboard and Electrical Panels for the HVAC units? Or does the contractor need it to be part of their bid?

If the District has not purchased, will the district approve an alternate brand for the switchboard and electrical panels, thus providing spec sheets?

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Friday, May 3, 2024 at 11:28 AM PDT*

This equipment is Owner Furnished, Contractor Installed. Refer to ‘Electrical Equipment’ section provided in Addendum 2 for further clarification.

Joe Jannino
Chief Estimator
S.C. Anderson

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #5: Job Walk Attendance Sheet

Status	Closed on 05/02/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact		**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 02:41 PM PDT*

Will the District post the job walk attendance sheet?

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Thursday, May 2, 2024 at 03:23 PM PDT*

Date: 04/29/2024 11:01 AM

RFI #5526-05-SC Preb
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos
From: Tad Strom

Response Needed By: 05/06/2024
Response Received: 05/02/2024

Information Requested: Will the District post the job walk attendance sheet?

Response: The job walk attendance sheet will be included in Addendum #02. The District has elected to waive mandatory job walk requirements included in the Notice to Bidders. No bidders will be required to submit the job walk certification of attendance.

Attachments
Prebid RFI 05SC Job Walk ATT.pdf

Date: 04/29/2024 11:01 AM

RFI #5526-05-SC Preb
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos
From: Tad Strom

Response Needed By: 05/06/2024
Response Received: 05/02/2024

Information Requested: Will the District post the job walk attendance sheet?

Response: The job walk attendance sheet will be included in Addendum #02. The District has elected to waive mandatory job walk requirements included in the Notice to Bidders. No bidders will be required to submit the job walk certification of attendance.

Description
Job Walk Attendance Sheet

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #6: Fire Alarm Conduit for Future Portables

Status	Closed on 05/03/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 03:29 PM PDT*

What size is the conduit going from the New FACP to the stub out for future Portables as shown on E1.01?

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Friday, May 3, 2024 at 11:41 AM PDT*

No conduits required for future modular buildings. Modular buildings electrical systems under separate project, DSA 03-123013. Provide COR for credit of conduits as required.

Upon installation of new main service, provide (1) 100/3 at new main service gear and intercept existing 2”C-3#3/0 + 1#4G for reconnection of electrical power for portables buildings, installed under DSA 03-123013.

Rose, Sing, Eastham and Associates
Electrical Consultants
131 S. Dunworth St. • Visalia, CA 93292-6705
Phone: (559) 733-2671 - E-Mail: seastham@rse-eng.com

Attachments
Prebid RFI 06-Fire_Alarm_Conduit_for_Future_Portables-2024-04-29.pdf

Date: 04/29/2024 11:05 AM

RFI #5526-06-SC Preb
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Steve Eastham

Response Needed By: 05/03/2024
Response Received: 05/03/2024

Information Requested: What size is the conduit going from the New FACP to the stub out for future Portables as shown on E1.01?

Response: Please see page to follow for the response.

Description
Fire Alarm Conduit for Future Portables

Rose, Sing, Eastham and Associates

Electrical Consultants
131 S. Dunworth St. • Visalia, CA 93292-6705
Phone: (559) 733-2671 - E-Mail: seastham@rse-eng.com

April 30, 2024

Project:	5526 - Wayside – Central Plant Replacement		
RFI #:	6	Project #:	5526
Received:	4/29/24	Drawing Reference:	Electrical

RFI:

What size is the conduit going from the New FACP to the stub out for future Portables as shown on E1.01?

Response:

No conduits required for future modular buildings. Modular buildings electrical systems under separate project, DSA 03-123013. Provide COR for credit of conduits as required.

Upon installation of new main service, provide (1) 100/3 at new main service gear and intercept existing 2”C-3#3/0 + 1#4G for reconnection of electrical power for portables buildings, installed under DSA 03-123013.

Affect to Project:

- [ ] No change to contract cost or time
- [ ] May require change in time
- [X] May require change in cost

Rose Sing Eastham & Associates

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #6: Fire Alarm Conduit for Future Portables

Status	Open		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 03:29 PM PDT*
What size is the conduit going from the New FACP to the stub out for future Portables as shown on E1.01?

Awaiting an Official Response

Printed On: Apr 29, 2024 09:13 AM PDT

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #7: Flooring Spec

Status	Open		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 03:36 PM PDT*

Is there any specification available for the flooring materials (carpet & rubber base) used in this project? No material specifications are provided.

Awaiting an Official Response

Date: 04/29/2024 11:12 AM

RFI #5526-07-SC Preb
Project: Wayside ES HVAC
Status: Received
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Felipe Ceballos

Response Needed By: 05/03/2024
Response Received: 04/29/2024

Information Requested: Is there any specification available for the flooring materials (carpet & rubber base) used in this project? No material specifications are provided.

Response: Spec Section 096813 Tile Carpeting will be included in Addendum No.2.
Also, the Section 096513 Resilient Base and Accessories will be issued with Addendum No.2.
Specs sheets on pages to follow.

Description
Flooring Spec

SECTION 096813 - TILE CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes modular carpet tile.

B. Related Requirements:

1. Section 017419 “Construction Waste Management and Disposal” for recycling of existing carpet materials to be removed.
2. Section 024119 "Selective Demolition" for removing existing floor coverings.
3. **Section 096513 "Resilient Base and Accessories"** for resilient wall base and accessories installed with carpet tile.
4. Section 096613 “Resilient Base and Materials” for resilient base to be incorporated into modular carpeting system.

1.3 REFERENCES

A. American Association of Textile Chemists and Colorists (AATCC):

1. AATCC 16-E: Test Method for Colorfastness to Light
2. AATCC 134: Test Method for Electrostatic Propensity of Carpets.
3. AATCC 165: Test Method for Colorfastness to Crocking, Textile Floor Coverings.
4. AATCC 174: Test Method for Antimicrobrial Activity Assessment of Carpets.
5. AATCC 175: Test Method for Stain Resistance for Pile Floor Coverings.

B. ASTM International:

1. ASTM E 648: Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
2. ASTM E 662: Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
3. ASTM E 2471: Standard Test Method for Using Seeded-Agar for the Screening Assessment of Antimicrobrial Activity in Carpets.
4. ASTM F 710: Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
5. ASTM F 2170: Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

C. California Department of Public Health (CDPH):

1. Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers – Version 1.1, February 2010.

D. CALGreen: California Green Building Standards Code - California Code of Regulations, Title 24, Part 11.

E. Carpet and Rug Institute (CRI):

1. CRI Carpet Installation Standard.
2. CRI Green Label Plus testing program.

F. Chemical Abstract Service (CAS):

1. Chemical Abstract Registration Number (CASRN).

G. Collaborative for High Performance Schools (CHPS).

1. Criteria Interpretation Library.

   a. EQ 7.0 – Low Emitting Materials.
   b. EQ 7.1 – Additional Low Emitting Materials.

H. Cradle to Cradle Products Innovation Institute:

1. Cradle to Cradle Certified Product Standard.

I. European Standards (EN):

1. EN 15804: Sustainability of Construction Works – Environmental Product Declarations – Core Rules for the Product Category of Construction Products.

J. GreenScreen for Safer Chemicals:

1. GreenScreen Chemical Hazard Assessment Procedure V1.2.

K. Health Product Declaration Collaborative:

1. Health Product Declaration Open Standard.

L. International Certified Floorcovering Installers Association.

1. Commercial II certification level.

M. International Organization for Standardization (ISO):

1. ISO 14021: Environmental Labels and Declarations – Self-Declared Environmental Claims (Type II Environmental Labeling).
2. ISO 14025: Environmental Labels and Declarations – Type III Environmental Declarations – Principals and Procedures.
3. ISO 14040: Environmental Management – Life Cycle Assessment – Principals and Framework.
4. ISO 14044: Environmental Management – Life Cycle Assessment – Requirements and Guidelines.
5. ISO 21930: Sustainability in Building Construction – Environmental Declaration of Building Products.

N. NSF International/American National Standards Institute (ANSI):

1. NSF/ANSI 140: Sustainability Assessment for Carpet.

O. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

P. SCS Global Services:

1. Sustainable Carpet Certification.

Q. South Coast Air Quality Management District (SCAQMD):

1. Rule 1168 – Adhesive and Sealant Applications.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
2. Include manufacturer's written installation recommendations for each type of substrate.

B. Shop Drawings: For carpet tile installation, plans showing the following:

1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type, color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of installation.
6. Pattern type, location, and direction.
7. Pile direction.
8. Type, color, and location of insets and borders.
9. Type, color, and location of edge, transition, and other accessory strips.
10. Transition details to other flooring materials.

C. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch long Samples.

D. Samples for Initial Selection: For each type of carpet tile.

1. Include Samples of exposed edge, transition, and other accessory stripping involving color or finish selection.

E. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch long Samples.

F. Product Schedule: For carpet tile. Use same designations indicated on Drawings.

G. Sustainable Product Certification: Provide ANSI/NSF 140 certification for carpet products.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.

C. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:

1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Carpet Tile: Full-size units equal to **5** percent of the amount installed for each type indicated, but not less than 10 sq. yd.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the **Master II** certification level.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Build mockups at locations and in sizes shown on Drawings.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Comply with CRI's "CRI Carpet Installation Standard."

1.10 FIELD CONDITIONS

A. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.

B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.

C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

1.11 WARRANTY

A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.

1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
2. Failures include, but are not limited to, the following:

a. More than 10 percent edge raveling, snags, and runs.
b. Dimensional instability.
c. Excess static discharge.
d. Loss of tuft-bind strength.
e. Loss of face fiber.
f. Delamination.

3. Warranty Period: **10** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CALGREEN REQUIREMENTS

A. General: Conform with all applicable requirements of the California Green Building Standards Code (CALGreen).

B. Provide adhesives and adhesive primers which comply with current VOC content limits of the South Coast Air Quality Management District (SCAQMD) Rule 1168, except as noted otherwise below. Such products shall also comply with Rule 1168 prohibition of the use of certain toxic compounds (chloroform, ethylene, dichloride, methylene chloride, perchloroethylene, and trichloroethyelen).

1. Aerosol adhesives and similar unit sizes of adhesives, and sealants (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions of use of certain toxic compounds, of the California Code of Regulations, Title 17, commencing with Section 94507.

C. Carpet Tile: Provide carpet tile products which meet at least one of the following:

1. Certified as complying with the testing and product requirements of the Carpet and Rug Institute's Green Label Plus program.
2. Compliant with the VOC-emission limits specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010.
3. Meets requirements of NSF/ANSI 140 for certification at the Gold level or higher.
4. Meets requirements of SCS Global Services Sustainable Carpet Certification program at the Gold level or higher.
5. Compliant with 2014 California Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly

D. Metal Edge/Transition Strips: Extruded aluminum with [**mill**] <**Insert finish**> finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics for Tile Carpeting:

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq cm, as determined by testing identical products according to ASTM E 648.
2. Smoke Density: 450 or less, determined by testing identical products according to ASTM E 662.

2.3 CARPET TILE

A. Modular Carpet Tile **C-1**; **Walk-Off Mat:** Modular carpet tile system designed for specific installation per manufacturer's recommendations. Maintain a visually continuous and finished overall appearance without any tile appearing improperly positioned.

1. Product: ***Interface, Inc.; SR799***.

    a. Color: Onyx

2. Construction: Tufted Textured Loop
3. Fiber Content: 100 percent nylon.
4. Fiber Type: Aquafil.
5. Dye Method: 100 percent solution dyed.
6. Pile Characteristic: Tip-sheared.
7. Pile Height: .19 inch.
8. Stitches: 10 per inch.
9. Gage: 1/12 inch.
10. Face Yarn Weight: 26 oz per sq yd.
11. Density: 6,686 oz per cu yd.
12. Primary Backing/Backcoating: Non-woven fiberglass-reinforced PVC.
13. Secondary Backing: Fiberglass-reinforced thermoplastic composite; 100 percent recyclable.

    a. Provide minimum 39 percent recycled content, post-consumer or postindustrial in secondary backing material.

14. Size: 19.6 inches square.
15. Applied Soil-Resistance Treatment: Manufacturer's standard material; 8.0 on the Red 40 Stain Scale, per AATCC 175.
16. Antimicrobial Treatment: Manufacturer's standard material; passes AATCC 174 (minimum 90 percent reduction of microorganisms according to Part 2; no macroscopic growth according to Part 3); passes ASTM E 2471.
17. Performance Characteristics: As follows:

    a. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.
    b. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
    c. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.

18. Minimum Recycled Content:

a. Preconsumer: 33 percent.
b. Postconsumer: 33 percent.

19. VOC Emissions:

a. Complies with requirements specified in “CALGreen Requirements” Article.
b. Certification: CRI Green Label Plus.

B. Modular Carpet Tile **C-2; Field**: Modular carpet tile system designed for specific installation per manufacturer’s recommendations. Maintain a visually continuous and finished overall appearance without any tile appearing improperly positioned.

1. Product: ***Interface, Inc.; Cubic***.

a. Color: T.B.D.

2. Construction: Tufted.
3. Fiber Content: 100 percent nylon Type 6, 6.
4. Fiber Type: Aquafil.
5. Dye Method: 100 percent solution dyed.
6. Pile Characteristic: Textured loop.
7. Pile Height: .145 inch.
8. Stitches: 8.16 per inch.
9. Gage: 1/12 inch.
10. Face Yarn Weight: 18 oz per sq yd.
11. Density: 6,968 oz per cu yd.
12. Primary Backing/Backcoating: Non-woven fiberglass-reinforced PVC.
13. Secondary Backing: Fiberglass-reinforced thermoplastic composite; 100 percent recyclable.

a. Provide minimum 39 percent recycled content, post-consumer or postindustrial in secondary backing material.

14. Size: 50 cm by 50 cm (19.69 inches square).
15. Applied Soil-Resistance Treatment: Manufacturer’s standard material; 8.0 on the Red 40 Stain Scale, per AATCC 175.
16. Antimicrobial Treatment: Manufacturer’s standard material; passes AATCC 174 (minimum 90 percent reduction of microorganisms according to Part 2; no macroscopic growth according to Part 3).
17. Performance Characteristics: As follows:

a. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.
b. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
c. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.

18. Minimum Recycled Content:

a. Preconsumer: 45 percent.

19. VOC Emissions:

a. Complies with requirements specified in “CALGreen Requirements” Article.
b. Certification: CRI Green Label Plus.

2.4 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cementbased formulation provided or recommended by carpet tile manufacturer.

B. Primer/Sealer: Carpet manufacturer's standard sealer material designed to seal gypsum-based underlayment surfaces.

C. Corner Connectors: Manufacturer's standard adhesively-surfaced 3-inch by 3-inch square tabs for connecting underside of corners of four adjacent carpet tile units to maintain a tight joint on all sides of tile, thereby maintaining an overall stable surface. Tabs are surfaced with pressure-sensitive acrylic adhesive on one side, only, of polyester backing, so as not to adhere tiles to substrate.

1. Product: Interface, Inc.; TacTiles.

D. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.

1. VOC Content: Complies with requirements specified in "CALGreen Requirements" Article.

E. Resilient Transition Moldings: As specified in Section 09 65 13 "Resilient Base and Accessories."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.

B. Examine carpet tile for type, color, pattern, and potential defects.

C. Verify that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might show through surface or interfere with adhesion of carpet tile and accessories

D. For painted subfloors, perform bond test recommended in writing by adhesivemanufacturer.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General: Comply with CRI's "CRI Carpet Installation Standard," and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.

B. Concrete substrates: Prepare according to ASTM F 710.

1. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using

solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturer.

2. Refer to Section 090565 “Concrete Moisture-Control System” for moisture and alkalinity testing and treatment. Proceed with installation only after substrates pass testing.
3. Adhesion Testing: Perform tests recommended by carpet tile manufacturer. Proceed with installation only after substrates pass testing.

C. Metal Substrates: Clean grease, oil, soil, and rust, and prime if recommended in writing by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.

D. Use trowelable leveling and patching compounds, according to manufacturer’s written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes, and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer’s written instructions.

E. Apply primer/sealer over gypsum-based cementitious underlayment in accordance with carpet manufacturer’s written instructions and as required to ensure proper adhesion of carpet to underlayment surface.

F. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 CARPET TILE INSTALLATION

A. General: Comply with with CRI’s “Carpet Installation Standard,” Section 18, “Modular Carpet,” and with carpet tile manufacturer’s written installation instructions.

B. Installation Method: As recommended in writing by carpet tile manufacturer, and as follows:

1. TacTiles

C. Maintain dye lot integrity. Do not mix dye lots in same area.

D. Maintain carpet tile patterns indicated on Drawings.

E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and builtin furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.

H. Install pattern parallel to walls and borders.

I. Do not bridge building expansion joints with carpet tiles.

J. At access flooring, stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

K. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of carpet tiles that would otherwise be exposed.

3.4 CLEANING AND PROTECTION

A. Perform the following operations immediately after installing carpet tile.

1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
2. Remove yarns that protrude from carpet tile surface.
3. Vacuum carpet tile using commercial machine with face-beater element.

B. Protect installed carpet tile to comply with CRI's "CRI Carpet Installation Standard," Section 20, "Protecting Indoor Installations."

C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 096813

SECTION - 096513 RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Resilient base.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified, not less than 12 inches long.

C. Samples for Initial Selection: For each type of product indicated.

D. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches long.

E. Product Schedule: For resilient base and accessory products.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within the range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.6 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 90 deg F, in spaces to receive resilient products during the following time periods:

1. 48 hours before installation.

2. During installation.

3. 48 hours after installation.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until they are the same temperature as the space where they are to be installed.

1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:

1. Remove adhesive and other blemishes from exposed surfaces.

2. Sweep and vacuum horizontal surfaces thoroughly.

3. Damp-mop horizontal surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

END OF SECTION 096513

B. After installation and until Substantial Completion, maintain ambient temperatures within the range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 THERMOSET-RUBBER BASE

A. Product Standard: ASTM F 1861, Type TS (rubber, vulcanized thermoset), Group I (solid, homogeneous).

1. Style and Location:

a. Style A, straight.

B. Thickness: 0.125 inch.

C. Height: 4 inches.

D. Lengths: Coils in manufacturer's standard length.

E. Outside Corners: Preformed.

F. Inside Corners: Preformed.

G. Colors: As selected by Architect from full range of industry color.

2.3 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Installation of resilient products indicates acceptance of surfaces and conditions.

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #8: Flooring Entry Mat

Status	Open		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, Apr 24, 2024 at 03:38 PM PDT*

In the Bid Package 06 Flooring, the scope of work mentions an entry mat. Could you please confirm whether these is an entry mat included in this project? If so, could you provide us with the specifications?

Awaiting an Official Response

Date: 04/29/2024 11:15 AM

RFI #5526-08-SC Preb
Project: Wayside ES HVAC
Status: Received
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Felipe Ceballos

Response Needed By: 05/03/2024
Response Received: 04/29/2024

Information Requested: In the Bid Package 06 Flooring, the scope of work mentions an entry mat. Could you please confirm whether these is an entry mat included in this project?
If so, could you provide us with the specifications?

Response: Spec Section 096813 Tile Carpeting will be included in Addendum No.2. Walk off mat SK A1.01 will be issued in Addendum No. 2.
Supporting documents on pages to follow

Description
Flooring Entry Mat

SECTION 096813 - TILE CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes modular carpet tile.

B. Related Requirements:

1. Section 017419 “Construction Waste Management and Disposal” for recycling of existing carpet materials to be removed.
2. Section 024119 "Selective Demolition" for removing existing floor coverings.
3. **Section 096513 "Resilient Base and Accessories"** for resilient wall base and accessories installed with carpet tile.
4. Section 096613 “Resilient Base and Materials” for resilient base to be incorporated into modular carpeting system.

1.3 REFERENCES

A. American Association of Textile Chemists and Colorists (AATCC):

1. AATCC 16-E: Test Method for Colorfastness to Light
2. AATCC 134: Test Method for Electrostatic Propensity of Carpets.
3. AATCC 165: Test Method for Colorfastness to Crocking, Textile Floor Coverings.
4. AATCC 174: Test Method for Antimicrobrial Activity Assessment of Carpets.
5. AATCC 175: Test Method for Stain Resistance for Pile Floor Coverings.

B. ASTM International:

1. ASTM E 648: Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
2. ASTM E 662: Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
3. ASTM E 2471: Standard Test Method for Using Seeded-Agar for the Screening Assessment of Antimicrobrial Activity in Carpets.
4. ASTM F 710: Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
5. ASTM F 2170: Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

C. California Department of Public Health (CDPH):

1. Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers – Version 1.1, February 2010.

D. CALGreen: California Green Building Standards Code - California Code of Regulations, Title 24, Part 11.

E. Carpet and Rug Institute (CRI):

1. CRI Carpet Installation Standard.
2. CRI Green Label Plus testing program.

F. Chemical Abstract Service (CAS):

1. Chemical Abstract Registration Number (CASRN).

G. Collaborative for High Performance Schools (CHPS).

1. Criteria Interpretation Library.

   a. EQ 7.0 – Low Emitting Materials.
   b. EQ 7.1 – Additional Low Emitting Materials.

H. Cradle to Cradle Products Innovation Institute:

1. Cradle to Cradle Certified Product Standard.

I. European Standards (EN):

1. EN 15804: Sustainability of Construction Works – Environmental Product Declarations – Core Rules for the Product Category of Construction Products.

J. GreenScreen for Safer Chemicals:

1. GreenScreen Chemical Hazard Assessment Procedure V1.2.

K. Health Product Declaration Collaborative:

1. Health Product Declaration Open Standard.

L. International Certified Floorcovering Installers Association.

1. Commercial II certification level.

M. International Organization for Standardization (ISO):

1. ISO 14021: Environmental Labels and Declarations – Self-Declared Environmental Claims (Type II Environmental Labeling).
2. ISO 14025: Environmental Labels and Declarations – Type III Environmental Declarations – Principals and Procedures.
3. ISO 14040: Environmental Management – Life Cycle Assessment – Principals and Framework.
4. ISO 14044: Environmental Management – Life Cycle Assessment – Requirements and Guidelines.
5. ISO 21930: Sustainability in Building Construction – Environmental Declaration of Building Products.

N. NSF International/American National Standards Institute (ANSI):

1. NSF/ANSI 140: Sustainability Assessment for Carpet.

O. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

P. SCS Global Services:

1. Sustainable Carpet Certification.

Q. South Coast Air Quality Management District (SCAQMD):

1. Rule 1168 – Adhesive and Sealant Applications.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
2. Include manufacturer's written installation recommendations for each type of substrate.

B. Shop Drawings: For carpet tile installation, plans showing the following:

1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type, color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of installation.
6. Pattern type, location, and direction.
7. Pile direction.
8. Type, color, and location of insets and borders.
9. Type, color, and location of edge, transition, and other accessory strips.
10. Transition details to other flooring materials.

C. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch long Samples.

D. Samples for Initial Selection: For each type of carpet tile.

1. Include Samples of exposed edge, transition, and other accessory stripping involving color or finish selection.

E. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch long Samples.

F. Product Schedule: For carpet tile. Use same designations indicated on Drawings.

G. Sustainable Product Certification: Provide ANSI/NSF 140 certification for carpet products.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.

C. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:

1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Carpet Tile: Full-size units equal to **5** percent of the amount installed for each type indicated, but not less than 10 sq. yd.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the **Master II** certification level.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Build mockups at locations and in sizes shown on Drawings.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Comply with CRI's "CRI Carpet Installation Standard."

1.10 FIELD CONDITIONS

A. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.

B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.

C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

1.11 WARRANTY

A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.

1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
2. Failures include, but are not limited to, the following:

a. More than 10 percent edge raveling, snags, and runs.
b. Dimensional instability.
c. Excess static discharge.
d. Loss of tuft-bind strength.
e. Loss of face fiber.
f. Delamination.

3. Warranty Period: **10** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CALGREEN REQUIREMENTS

A. General: Conform with all applicable requirements of the California Green Building Standards Code (CALGreen).

B. Provide adhesives and adhesive primers which comply with current VOC content limits of the South Coast Air Quality Management District (SCAQMD) Rule 1168, except as noted otherwise below. Such products shall also comply with Rule 1168 prohibition of the use of certain toxic compounds (chloroform, ethylene, dichloride, methylene chloride, perchloroethylene, and trichloroethyelen).

1. Aerosol adhesives and similar unit sizes of adhesives, and sealants (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions of use of certain toxic compounds, of the California Code of Regulations, Title 17, commencing with Section 94507.

C. Carpet Tile: Provide carpet tile products which meet at least one of the following:

1. Certified as complying with the testing and product requirements of the Carpet and Rug Institute's Green Label Plus program.
2. Compliant with the VOC-emission limits specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010.
3. Meets requirements of NSF/ANSI 140 for certification at the Gold level or higher.
4. Meets requirements of SCS Global Services Sustainable Carpet Certification program at the Gold level or higher.
5. Compliant with 2014 California Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly

D. Metal Edge/Transition Strips: Extruded aluminum with [**mill**] <**Insert finish**> finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics for Tile Carpeting:

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq cm, as determined by testing identical products according to ASTM E 648.
2. Smoke Density: 450 or less, determined by testing identical products according to ASTM E 662.

2.3 CARPET TILE

A. Modular Carpet Tile **C-1**; **Walk-Off Mat:** Modular carpet tile system designed for specific installation per manufacturer's recommendations. Maintain a visually continuous and finished overall appearance without any tile appearing improperly positioned.

1. Product: ***Interface, Inc.; SR799***.

    a. Color: Onyx

2. Construction: Tufted Textured Loop
3. Fiber Content: 100 percent nylon.
4. Fiber Type: Aquafil.
5. Dye Method: 100 percent solution dyed.
6. Pile Characteristic: Tip-sheared.
7. Pile Height: .19 inch.
8. Stitches: 10 per inch.
9. Gage: 1/12 inch.
10. Face Yarn Weight: 26 oz per sq yd.
11. Density: 6,686 oz per cu yd.
12. Primary Backing/Backcoating: Non-woven fiberglass-reinforced PVC.
13. Secondary Backing: Fiberglass-reinforced thermoplastic composite; 100 percent recyclable.

    a. Provide minimum 39 percent recycled content, post-consumer or postindustrial in secondary backing material.

14. Size: 19.6 inches square.
15. Applied Soil-Resistance Treatment: Manufacturer's standard material; 8.0 on the Red 40 Stain Scale, per AATCC 175.
16. Antimicrobial Treatment: Manufacturer's standard material; passes AATCC 174 (minimum 90 percent reduction of microorganisms according to Part 2; no macroscopic growth according to Part 3); passes ASTM E 2471.
17. Performance Characteristics: As follows:

    a. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.
    b. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
    c. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.

18. Minimum Recycled Content:

a. Preconsumer: 33 percent.
b. Postconsumer: 33 percent.

19. VOC Emissions:

a. Complies with requirements specified in “CALGreen Requirements” Article.
b. Certification: CRI Green Label Plus.

B. Modular Carpet Tile **C-2; Field**: Modular carpet tile system designed for specific installation per manufacturer’s recommendations. Maintain a visually continuous and finished overall appearance without any tile appearing improperly positioned.

1. Product: ***Interface, Inc.; Cubic***.

a. Color: T.B.D.

2. Construction: Tufted.
3. Fiber Content: 100 percent nylon Type 6, 6.
4. Fiber Type: Aquafil.
5. Dye Method: 100 percent solution dyed.
6. Pile Characteristic: Textured loop.
7. Pile Height: .145 inch.
8. Stitches: 8.16 per inch.
9. Gage: 1/12 inch.
10. Face Yarn Weight: 18 oz per sq yd.
11. Density: 6,968 oz per cu yd.
12. Primary Backing/Backcoating: Non-woven fiberglass-reinforced PVC.
13. Secondary Backing: Fiberglass-reinforced thermoplastic composite; 100 percent recyclable.

a. Provide minimum 39 percent recycled content, post-consumer or postindustrial in secondary backing material.

14. Size: 50 cm by 50 cm (19.69 inches square).
15. Applied Soil-Resistance Treatment: Manufacturer’s standard material; 8.0 on the Red 40 Stain Scale, per AATCC 175.
16. Antimicrobial Treatment: Manufacturer’s standard material; passes AATCC 174 (minimum 90 percent reduction of microorganisms according to Part 2; no macroscopic growth according to Part 3).
17. Performance Characteristics: As follows:

a. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.
b. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
c. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.

18. Minimum Recycled Content:

a. Preconsumer: 45 percent.

19. VOC Emissions:

a. Complies with requirements specified in “CALGreen Requirements” Article.
b. Certification: CRI Green Label Plus.

2.4 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cementbased formulation provided or recommended by carpet tile manufacturer.

B. Primer/Sealer: Carpet manufacturer's standard sealer material designed to seal gypsum-based underlayment surfaces.

C. Corner Connectors: Manufacturer's standard adhesively-surfaced 3-inch by 3-inch square tabs for connecting underside of corners of four adjacent carpet tile units to maintain a tight joint on all sides of tile, thereby maintaining an overall stable surface. Tabs are surfaced with pressure-sensitive acrylic adhesive on one side, only, of polyester backing, so as not to adhere tiles to substrate.

1. Product: Interface, Inc.; TacTiles.

D. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.

1. VOC Content: Complies with requirements specified in "CALGreen Requirements" Article.

E. Resilient Transition Moldings: As specified in Section 09 65 13 "Resilient Base and Accessories."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.

B. Examine carpet tile for type, color, pattern, and potential defects.

C. Verify that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might show through surface or interfere with adhesion of carpet tile and accessories

D. For painted subfloors, perform bond test recommended in writing by adhesivemanufacturer.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General: Comply with CRI's "CRI Carpet Installation Standard," and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.

B. Concrete substrates: Prepare according to ASTM F 710.

1. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using

solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturer.

2. Refer to Section 090565 “Concrete Moisture-Control System” for moisture and alkalinity testing and treatment. Proceed with installation only after substrates pass testing.
3. Adhesion Testing: Perform tests recommended by carpet tile manufacturer. Proceed with installation only after substrates pass testing.

C. Metal Substrates: Clean grease, oil, soil, and rust, and prime if recommended in writing by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.

D. Use trowelable leveling and patching compounds, according to manufacturer’s written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes, and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer’s written instructions.

E. Apply primer/sealer over gypsum-based cementitious underlayment in accordance with carpet manufacturer’s written instructions and as required to ensure proper adhesion of carpet to underlayment surface.

F. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 CARPET TILE INSTALLATION

A. General: Comply with with CRI’s “Carpet Installation Standard,” Section 18, “Modular Carpet,” and with carpet tile manufacturer’s written installation instructions.

B. Installation Method: As recommended in writing by carpet tile manufacturer, and as follows:

1. TacTiles

C. Maintain dye lot integrity. Do not mix dye lots in same area.

D. Maintain carpet tile patterns indicated on Drawings.

E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and builtin furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.

H. Install pattern parallel to walls and borders.

I. Do not bridge building expansion joints with carpet tiles.

J. At access flooring, stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

K. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of carpet tiles that would otherwise be exposed.

3.4 CLEANING AND PROTECTION

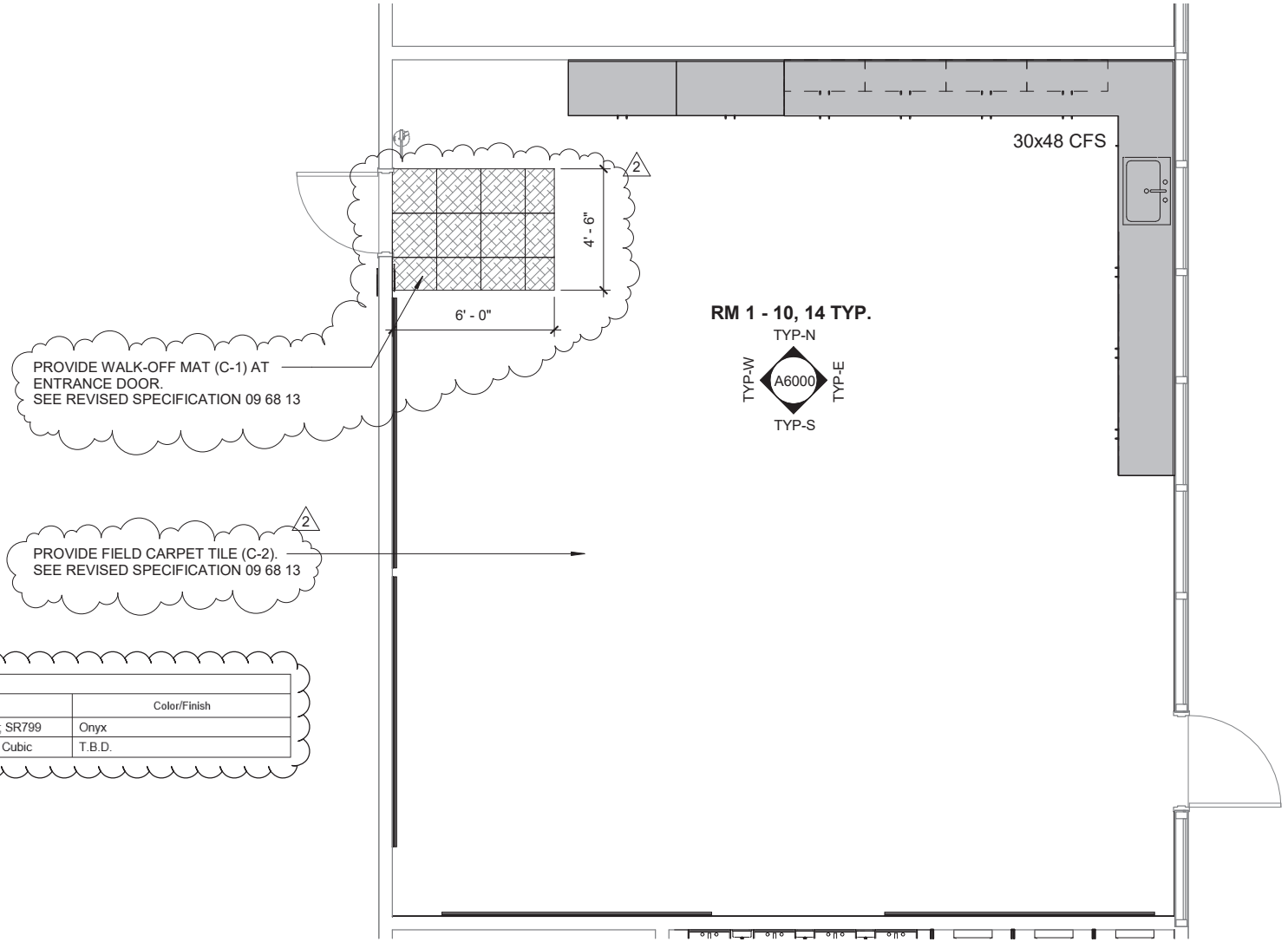
A. Perform the following operations immediately after installing carpet tile.

1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
2. Remove yarns that protrude from carpet tile surface.
3. Vacuum carpet tile using commercial machine with face-beater element.

B. Protect installed carpet tile to comply with CRI's "CRI Carpet Installation Standard," Section 20, "Protecting Indoor Installations."

C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 096813



Section 09 68 13 – Tile Carpeting		
Designation	Description	Color/Finish
C-1	Carpet Tile: Interface, Inc.; SR799	Onyx
C-2	Carpet Tile: Interface, Inc; Cubic	T.B.D.

1 CLASSROOM F.P. - ROOMS 1-10 & 14 - WALK-OFF MATS
1/4" = 1'-0"
NOTE: SEE SHEET A2101, FOR ADDITIONAL INFORMATION NOT SHOWN

CLASSROOM F.P. - ROOMS 1-10 & 14 - WALK-OFF MATS

BESSIE OWENS JR HIGH MODERNIZATION

BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CA

DATE 05/04/2022

REFERENCE SHEET NO. A2101

PROJECT NO. 118934 / 19123.02-46

DSA FILE NO. 15-6

DSA APP. NO. 03-120102

ADD02
SK-A1.01

LICENSED ARCHITECT
RICHARD MELLO
No. C18079
REN. 10/23
STATE OF CALIFORNIA

IBI
ARCHITECTURE PLANNING
San Luis Obispo
4119 Broad Street, Suite 210
San Luis Obispo, California 93401
805.546.0433 fax: 805.546.0504

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #9: Lighting Control Warranty

Status	Closed on 05/02/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	Apr 29, 2024	**Due Date**	May 6, 2024
Location		**Project Stage**	Bidding
Cost Impact	Yes (Unknown)	**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Monday, Apr 29, 2024 at 01:39 PM PDT*

Section 260943 Network Lighting Controls, 1.7, A in the specs says, “All devices in lighting control system shall have a 5-year warranty.” Can you confirm whether this warranty is to be posted by the manufacturer or the contractor?

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Thursday, May 2, 2024 at 02:36 PM PDT*

5-year warranty required by Manufacturer for lighting controls.

Rose, Sing, Eastham and Associates
Electrical Consultants
131 S. Dunworth St. • Visalia, CA 93292-6705
Phone: (559) 733-2671 - E-Mail: seastham@rse-eng.com

Attachments
24_0430_RSE_Response_Wayside-RFI_9.pdf

Rose, Sing, Eastham and Associates

Electrical Consultants
131 S. Dunworth St. • Visalia, CA 93292-6705
Phone: (559) 733-2671 - E-Mail: seastham@rse-eng.com

April 30, 2024

Project:	5526 - Wayside – Central Plant Replacement		
RFI #:	9	Project #:	5526
Received:	04/30/24	Drawing Reference:	Electrical

RFI:

Section 260943 Network Lighting Controls, 1.7, A in the specs says, “All devices in lighting control system shall have a 5-year warranty.” Can you confirm whether this warranty is to be posted by the manufacturer or the contractor?

Response:

5-year warranty required by Manufacturer for lighting controls.

Affect to Project:

- [X] No change to contract cost or time
- [ ] May require change in time
- [ ] May require change in cost

Rose Sing Eastham & Associates

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #10: CPM Schedule

Status	Closed on 05/02/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	May 1, 2024	**Due Date**	May 8, 2024
Location		**Project Stage**	Bidding
Cost Impact		**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, May 1, 2024 at 09:09 AM PDT*
Please provide the project CPM Schedule.

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Thursday, May 2, 2024 at 01:20 PM PDT*
Date: 05/01/2024 03:53 PM

RFI #5526-10 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos
From: Tad Strom

Response Needed By: 05/06/2024
Response Received: 05/01/2024

Information Requested: Please provide the project CPM Schedule.

Response: CPM Schedule will be provided in Addendum 2

Attachments
Prebid RFI 10 CPM Sched.pdf

Date: 05/01/2024 03:53 PM

RFI #5526-10 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos
From: Tad Strom

Response Needed By: 05/06/2024
Response Received: 05/01/2024

Information Requested: Please provide the project CPM Schedule.

Response: CPM Schedule will be provided in Addendum 2

Description
CPM Schedule

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #11: Roofing

Status	Closed on 05/03/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	May 1, 2024	**Due Date**	May 8, 2024
Location		**Project Stage**	Bidding
Cost Impact		**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, May 1, 2024 at 09:12 AM PDT*

The plans state that the existing roofing is asphalt shingles and the roofing specification section provided is 073113 asphalt shingle patching. However, it appears that the roof may have been sprayed with polyurethane or it at least has a white coating which is typical to polyurethane roofs. Please advise on the actual existing roofing material and if other than asphalt shingles provide a specification for that material.

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Friday, May 3, 2024 at 01:42 PM PDT*

Date: 04/29/2024 11:15 AM

RFI #5526-08-SC Preb
Project: Wayside ES HVAC
Status: Received
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Felipe Ceballos

Response Needed By: 05/03/2024
Response Received: 05/03/2024

Response:
Based on what we were able to gather from available records, it appears that the white-colored foam cool roof was applied over the existing asphalt shingles roofing. The new roof patch where the new mechanical units are being installed should have #30 Felt Roof U
underlayment over the roof deck and overlapping the remaining asphalt shingles, as per the attached detail Exhibit 1.

Attachments
Prebid RFI 11-Roofing (Response).pdf

Date: 04/29/2024 11:15 AM

RFI #5526-Prebid RFI 11 Roofing
Project: Wayside ES HVAC
Status: Closed
Change Order:

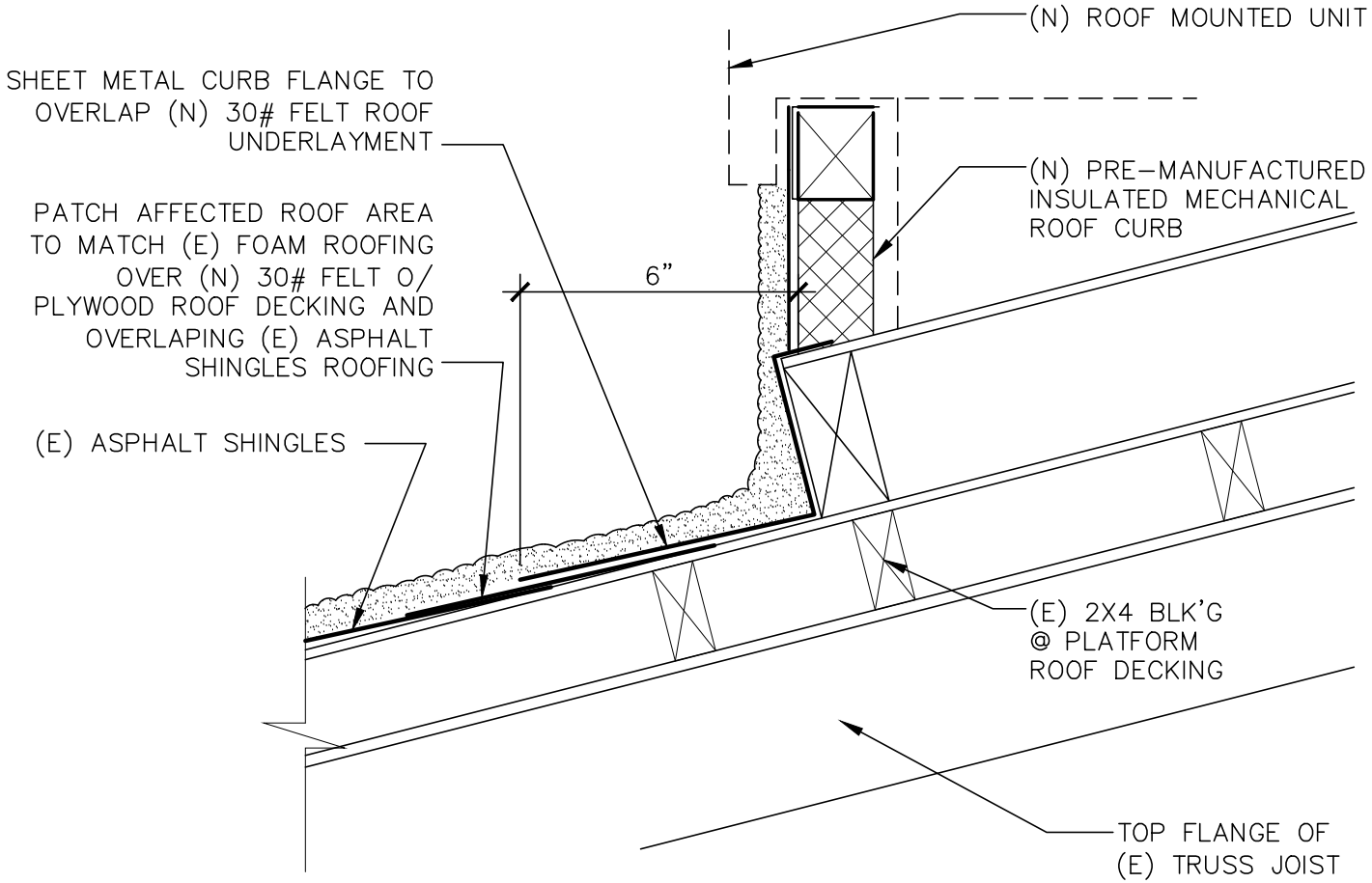
To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Felipe Ceballos

Response Needed By: 05/03/2024
Response Received: 05/03/24

Information Requested: The plans state that the existing roofing is asphalt shingles and the roofing specification section provided is 073113 asphalt shingle patching. However, it appears that the roof may have been sprayed with polyurethane or it at least has a white coating which is typical to polyurethane roofs. Please advise on the actual existing roofing material and if other than asphalt shingles provide a specification for that material.

Response:
Based on what we were able to gather from available records, it appears that the white-colored foam cool roof was applied over the existing asphalt shingles roofing.
The new roof patch where the new mechanical units are being installed should have #30 Felt Roof Underlayment over the roof deck and overlapping the remaining asphalt shingles, as per the attached detail Exhibit 1.

Description
Roofing



FOAM ROOFING PATCH

Prebid RFI 11 Exhibit 1

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #12: Light Well Detail

Status	Closed on 05/02/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	May 1, 2024	**Due Date**	May 8, 2024
Location		**Project Stage**	Bidding
Cost Impact		**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number	Detail 7/A8.01	**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, May 1, 2024 at 09:15 AM PDT*

Detail 7/A8.01 refers to detail H/S2.1 but there is no such detail on S2.1. It appears they are referring to detail 7 or 8 on S2.3.
Please clarify.

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Thursday, May 2, 2024 at 01:23 PM PDT*

Date: 05/02/2024 08:14 AM

RFI #5526-12 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Derek Anderson

Plan Sheet #: A8.01

Response Needed By: 05/07/2024
Response Received: 05/02/2024

Information Requested: Detail 7/A8.01 refers to detail H/S2.1 but there is no such detail on S2.1. It appears they are referring to detail 7 or 8 on S2.3.
Please clarify.

Response: That is correct, it should refer to detail 8/S2.3 at building C and 7/S2.3 at building A, B, C, D & E.

Attachments
Prebid RFI 12 Light Well Detail.pdf

Printed On: May 2, 2024 01:23 PM PDT

Date: 05/02/2024 08:14 AM

RFI #5526-12 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Derek Anderson

Plan Sheet #: A8.01

Response Needed By: 05/07/2024
Response Received: 05/02/2024

Information Requested: Detail 7/A8.01 refers to detail H/S2.1 but there is no such detail on S2.1. It appears they are referring to detail 7 or 8 on S2.3.
Please clarify.

Response: That is correct, it should refer to detail 8/S2.3 at building C and 7/S2.3 at building A, B, C, D & E.

Description
Light Well Detail

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #12: Light Well Detail

Status	Open		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	May 1, 2024	**Due Date**	May 8, 2024
Location		**Project Stage**	Bidding
Cost Impact		**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number	Detail 7/A8.01	**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, May 1, 2024 at 09:15 AM PDT*

Detail 7/A8.01 refers to detail H/S2.1 but there is no such detail on S2.1. It appears they are referring to detail 7 or 8 on S2.3. Please clarify.

That is correcct, it should refer to detail 8/S2.3 at building C and 7/S2.3 at building A, B, C, D & E.
--
Derek Anderson, CSEG
5/2/24

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #13: Steel Joist Retrofit

Status	Closed on 05/02/24		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	May 1, 2024	**Due Date**	May 8, 2024
Location		**Project Stage**	Bidding
Cost Impact		**Schedule Impact**	
Spec Section		**Cost Code**	
Drawing Number		**Reference**	
Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, May 1, 2024 at 09:19 AM PDT*

Per detail 1/S2.3, are there three L 1-1/4" x 1-1/4" x 1/8" angles per each joist or are there six angles per each joist (one on each side of truss member)?

Official Response

Response from Kerry Thompson S.C. Anderson, Inc. *on Thursday, May 2, 2024 at 01:24 PM PDT*

Date: 05/02/2024 11:12 AM

RFI #5526-13 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Derek Anderson

Response Needed By: 05/07/2024
Response Received: 05/02/2024

Information Requested: Per detail 1/S2.3, are there three L 1-1/4" x 1-1/4" x 1/8" angles per each joist or are there six angles per each joist (one on each side of truss member)?

Response: Please see page to follow for the response.

Date: 05/02/2024 11:12 AM

RFI #5526-13 Prebid
Project: Wayside ES HVAC
Status: Closed
Change Order:

To: (S.C. Anderson Inc.)
CC: Daniel Wastaferro (Bakersfield City School District), Felipe Ceballos, Tad Strom
From: Derek Anderson

Response Needed By: 05/07/2024
Response Received: 05/02/2024

Information Requested: Per detail 1/S2.3, are there three L 1-1/4" x 1-1/4" x 1/8" angles per each joist or are there six angles per each joist (one on each side of truss member)?

Response: Please see page to follow for the response.

Description
Steel Joist Retrofit

S.C. ANDERSON INC.
GENERAL CONTRACTOR / CONSTRUCTION MANAGER

Project: 01.24011.3 HVAC Replacement Wayside ES
1000 Ming Ave
Bakersfield, California 93307

RFI #13: Steel Joist Retrofit

Status	Open		
To	Tad Strom (INTEGRATED DESIGNS BY SOMAM, INC.) Felipe Ceballos (INTEGRATED DESIGNS BY SOMAM, INC.) Christine Hoskins (INTEGRATED DESIGNS BY SOMAM, INC.)	**From**	Joe Jannino (S.C. Anderson, Inc.) 11109 River Run Boulevard, Suite 200 Bakersfield, California 93311
Date Initiated	May 1, 2024	**Due Date**	May 8, 2024
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Linked Drawings			
Received From	Joe Jannino (S.C. Anderson, Inc.)		
Copies To			

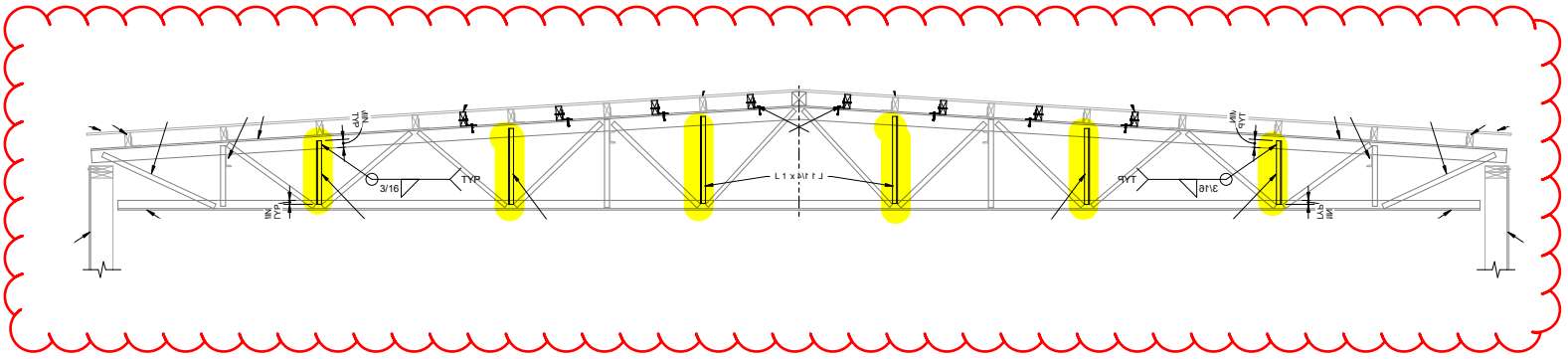
Activity

Question

Question from Joe Jannino S.C. Anderson, Inc. *on Wednesday, May 1, 2024 at 09:19 AM PDT*

Per detail 1/S2.3, are there three L 1-1/4" x 1-1/4" x 1/8" angles per each joist or are there six angles per each joist (one on each side of truss member)?

There are (6) new L 1-1/4" x 1-1/4" x 1/8"angles at each joist. (3) on each side of the joist centerline.
--
Derek Anderson, CSEG
5/2/24



Printed On: May 1, 2024 11:12 AM PDT

BCUSD Wayside Elementary School
Bakersfield, CA 93307
HVAC Replacement

DSA App #: 03-122531

TABLE OF CONTENTS

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for the following:

1. Salvaging nonhazardous demolition waste.
2. Recycling nonhazardous demolition waste.
3. Disposing of nonhazardous demolition and construction waste.

B. Related Requirements:

1. Section 024119 "Selective Demolition" for disposition of waste resulting from partial demolition of buildings, structures, and site improvements.
2. Section 095113 “Acoustical Panel Ceilings” for demolition of existing “acoustical Panel Ceiling” and recycling of demolished materials.

1.3 DEFINITIONS

A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 PERFORMANCE REQUIREMENTS

A. General: Achieve end-of-Project rates for salvage/recycling of 50 percent by weight of total non-hazardous solid waste generated by the Work. Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators. Facilitate recycling and salvage of materials, including the following:

1. Demolition Waste:

    a. Asphalt paving.
    b. Concrete.
    c. Concrete reinforcing steel.
    d. Roofing.
    e. Gypsum board.
    f. Acoustical tile and panels.
    g. Carpet.
    h. Carpet pad.
    i. Mechanical equipment.
    j. Refrigerants.
    k. Electrical conduit.
    l. Lighting fixtures.
    m. Lamps.
    n. Ballasts.

2. Construction Waste:

    a. Roofing.
    b. Packaging: Regardless of salvage/recycle goal indicated in "General" Paragraph above, salvage or recycle 100 percent of the following uncontaminated packaging materials:

        1) Paper.
        2) Cardboard.
        3) Boxes.
        4) Plastic sheet and film.
        5) Wood crates.
        6) Plastic pails.

1.5 ACTION SUBMITTALS

A. Waste Management Plan: Submit plan within 7 days of date established for the Notice to Proceed.

1.6 INFORMATIONAL SUBMITTALS

A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Use Form CWM-7 for construction waste and Form CWM-8 for demolition waste. Include the following information:

1. Material category.
2. Generation point of waste.
3. Total quantity of waste in tons (tonnes).
4. Quantity of waste salvaged, both estimated and actual in tons (tonnes).
5. Quantity of waste recycled, both estimated and actual in tons (tonnes).
6. Total quantity of waste recovered (salvaged plus recycled) in tons (tonnes).
7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.

B. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.

C. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.

D. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.

E. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

F. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

G. Qualification Data: For waste management coordinator and refrigerant recovery technician.

H. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

1.7 QUALITY ASSURANCE

A. Waste Management Coordinator Qualifications: Experienced firm, with a record of successful waste management coordination of projects with similar requirements.

B. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

C. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.

D. Waste Management Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination." Review methods and procedures related to waste management including, but not limited to, the following:

1. Review and discuss waste management plan including responsibilities of waste management coordinator.
2. Review requirements for documenting quantities of each type of waste and its disposition.
3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
5. Review waste management requirements for each trade.

1.8 WASTE MANAGEMENT PLAN

A. General: Develop a waste management plan according to ASTM E 1609 and requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Distinguish between demolition and construction waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.

B. Waste Identification: Indicate anticipated types and quantities of demolition site-clearing and construction waste generated by the Work. Use Form CWM-1 for construction waste and Form CWM-2 for demolition waste. Include estimated quantities and assumptions for estimates.

C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Use Form CWM-3 for construction waste and Form CWM-4 for demolition waste. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.

1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
2. Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
3. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
5. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
6. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location where materials separation will be performed.

D. Cost/Revenue Analysis: Indicate total cost of waste disposal as if there was no waste management plan and net additional cost or net savings resulting from implementing waste management plan. Use Form CWM-5 for construction waste and Form CWM-6 for demolition waste. Include the following:

1. Total quantity of waste.
2. Estimated cost of disposal (cost per unit). Include hauling and tipping fees and cost of collection containers for each type of waste.
3. Total cost of disposal (with no waste management).
4. Revenue from salvaged materials.
5. Revenue from recycled materials.
6. Savings in hauling and tipping fees by donating materials.
7. Savings in hauling and tipping fees that are avoided.
8. Handling and transportation costs. Include cost of collection containers for each type of waste.
9. Net additional cost or net savings from waste management plan.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

1. Comply with operation, termination, and removal requirements in Section 015000 "Temporary Facilities and Controls."

B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.

C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.

1. Distribute waste management plan to everyone concerned within three days of submittal return.
2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.

D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
2. Comply with Section 015000 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 SALVAGING DEMOLITION WASTE

A. Salvaged Items for Reuse in the Work: Salvage items for reuse and handle as follows:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
3. Store items in a secure area until installation.
4. Protect items from damage during transport and storage.
5. Install salvaged items to comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make items functional for use indicated.

B. Salvaged Items for Sale Not permitted on Project site.

C. Salvaged Items for Owner's Use: Salvage items for Owner's use and handle as follows:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.

5. Protect items from damage during transport and storage.

D. Equipment: Drain tanks, piping, and fixtures. Seal openings with caps or plugs. Protect equipment from exposure to weather.

E. Lighting Fixtures: Separate lamps by type and protect from breakage.

3.3 RECYCLING DEMOLITION WASTE, GENERAL

A. General: Recycle paper and beverage containers used by on-site workers.

B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall be shared equally by Owner and Contractor.

C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.

D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.

1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.

    a. Inspect containers and bins for contamination and remove contaminated materials if found.

2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor.

3.4 RECYCLING DEMOLITION WASTE

A. Asphalt Paving: Grind asphalt to maximum 1-1/2-inch size.

1. Crush asphaltic concrete paving and screen to comply with requirements in Section 312000 "Earth Moving" for use as general fill.

B. Asphalt Paving: Break up and transport paving to asphalt-recycling facility.

C. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.

1. Pulverize concrete to maximum 4-inch size.
2. Crush concrete and screen to comply with requirements in Section 312000 "Earth Moving" for use as satisfactory soil for fill or subbase.

D. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.

E. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.

F. Metal Suspension System: Separate metal members including trim, and other metals from acoustical panels and tile and sort with other metals.

G. Carpet Tile: Remove debris, trash, and adhesive.

1. Stack tile on pallet and store clean, dry carpet in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.

3.5 RECYCLING CONSTRUCTION WASTE

A. Packaging:

1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

B. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location.

1. Clean Gypsum Board: Grind scraps of clean gypsum board using small mobile chipper or hammer mill. Screen out paper after grinding.

a. Comply with requirements in Section 329300 "Plants" for use of clean ground gypsum board as inorganic soil amendment.

3.6 DISPOSAL OF WASTE

A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Burning: Do not burn waste materials.

C. Disposal: Remove waste materials from Owner's property and legally dispose of them.

3.7 ATTACHMENTS

A. Form CWM-1 for construction waste identification.

B. Form CWM-2 for demolition waste identification.

C. Form CWM-3 for construction waste reduction work plan.

D. Form CWM-4 for demolition waste reduction work plan.

E. Form CWM-5 cost/revenue analysis of construction waste reduction work plan.

F. Form CWM-6 cost/revenue analysis of demolition waste reduction work plan.

G. Form CWM-7 for construction waste

H. Form CWM-8 for demolition waste.

END OF SECTION 017419

SECTION 075713 - SPRAYED FOAM ROOFING SYSTEM

1.0 GENERAL REQUIREMENTS

1.1 Terms and Conditions

1.1.2 Bidders shall be pre-qualified as follows:

a. All bidders shall be contractors who have specifically performed the application of sprayed-in-place polyurethane foam roofing systems. Such bidders shall have installed these systems for not less than ten years under the same contractor's name and license. Each bidder shall have performed at least fifteen applications of similar type and size. Bidders shall submit, with the bid, a list of projects including date of completion and contact information for verification.
b. The Contractor shall be a current member in good standing with the Spray Polyurethane Foam Alliance and Accreditation Program. A copy of the SPFA membership certification shall be submitted with the bid. Completion of the Roofing Master Installer and Fundamentals of Spray Polyurethane Foam and Coating Systems is the minimum acceptable status in the accreditation program by the supervisor(s) and spray mechanic(s) assigned to the project.
c. Each bidder shall submit a copy of the proposed Ten (10) Year Recoat Warranty along with the bid.
d. The contractor shall carry a minimum of $2,000,000 in general liability insurance on a continuing basis. Verification of insurance shall be submitted at the time of bid.
e. The contractor shall submit, with the bid, a current license status printout from the Contractor's State License Board at http://www.cslb.ca.gov to demonstrate that the license is in good standing.
f. Certification of the Manufacturer/Supplier: Submit, on corporate letterhead, a letter from the manufacturer supplier of the foam and from the supplier of the coating stating that the applicator of these products is qualified by the manufacturer supplier and meets sections 1.1.2 a and b.
g. The contractor shall cooperate as required in performance of the specified inspecting and testing.
h. Failure of the bidder to submit items A through F in its entirety with the bid will be deemed non-responsive.

1.1.3 Suppliers shall be pre-qualified as follows:

a. The manufacturer of the foam and coating shall have been in business for a minimum of ten years and shall maintain a minimum of $5,000,000 of product liability insurance on a continuing basis.
b. The manufacturer of the foam and coating shall have a minimum of 3,000,000 square feet of roofing system installed.
c. The foam and coating shall be listed as Class A over existing non-combustible roofing systems by Underwriters Laboratories per UL 790 at the thicknesses intended for use.
d. The foam and coating shall be listed as Class B over existing combustible decks by Underwriters Laboratories per UL 790 at the thicknesses intended for use.
e. Failure of the bidder to submit items A through D in their entirety will be deemed non-responsive.

1.2 Submittals

1.2.1 Manufacturer's Literature: Submit two copies of the manufacturer's data sheets regarding specifications, application information and safety information, and safety instructions on each product proposed for use.

1.2.2 Samples: Submit two samples of the proposed coating system applied on urethane foam. Samples shall be two inches by four inches in size.

1.2.3 UL follow up service: The foam and coating shall be registered under the UL follow up service and bear UL labels.

1.2.4 Contractors shall submit a computer-generated milestones schedule showing each specific phase of work along projected completion dates.

2.0 MATERIALS AND EQUIPMENT

2.2 Caulking or Sealants

Caulking materials shall be single-component polyurethane elastomer such as Quik-Shield 15s-2.5 "Vulkem-921", "Sikaflex-1a", or approved equal. Roof field caulking shall be compatible with the respective elastomeric roof coating.

2.3 Polyurethane Foam: Polyurethane foam shall be a two-component polyurethane foam system formulated for use through airless equipment and manufactured by BASF.

Density (sprayed-in-place)	2.8-3.0 pcf min.
Compressive Strength	50-60 psi min.
Tensile Strength	70-75 psi min.
Shear Strength	50-60 psi min.
Closed Cell Content	95% min.
K Factor, Initial	0.11
Flame Spread (ASTM E84)	75 max.*
Roof Deck Classification:	ASTM E108 (UL 790)
Combustible Deck	Class B
Noncombustible Deck	Class A

*This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

2.4 Acrylic rubber roof coating: The elastomeric coating shall be an acrylic elastomer coating and shall be Energy Star rated with the U.S. Environmental Protection Agency and California Title-24 Cool Roof Compliant.

Solids by Volume	56%
Solids by Weight	70%
Flash Point	>212°F
Initial Elongation (%)	310
Initial Tensile Strength	350 psi
Dry Adhesion	8.0 pli
Wet Adhesion	3 pli
Tear Resistance	130 lbf/in
1000 hr Accelerated Weathering	No Cracking or Checking
Elongation after Accelerated Weathering (%)	220

Low Temperature Flexibility after Accelerated Weathering	Pass
Permeance	19 perms
Water Swelling	6%
Fungi Resistance (zero = No Growth)	Zero Rating
Impact Resistance	>160
Tension Set @ 100%	0%
Durometer Hardness: Shore A	72

The minimum dry film thickness of the coating shall be 24 dry mils. Plasticized acrylics, vinyls, EVA's, terpolymers and PVA coatings shall not be considered.

2.6 Equipment: Equipment for spraying foam shall be manufactured specifically for the application of polyurethane foam. The equipment shall be airless, capable of maintaining a 1:1 volume ratio and have primary and hose heaters. Coating equipment shall be an airless type as recommended by the coating manufacturer.

3.0 SURFACE PREPARATION

Surface Condition: Identify and repair all leaks. The following areas are the most critical:

a. Internal roof drains, scuppers and downspouts
b. Edge detail, parapet walls and corner flashings
c. Expansion joints, skylights, ductwork and air handling units
d. Other roof penetrations such as soil pipes, ventilators and curbs

3.1 Surface Condition

Owner shall insure that roof top equipment does not discharge liquids onto roof. All blowers shall exhaust into a container or the atmosphere and not onto the roof. The surface shall be free from solvent, grease, dust, sediment, dirt and sticky mastic.

3.2 All prepared surfaces to receive SPF roofing materials are to be primed with 1/3-1/2 gallon per 100 square feet using the appropriate primer as necessary.

3.3 All surfaces not to receive SPF roofing materials such as walls, shrubbery, pipe/conduit runs, windows, air conditioners and other roof mounted equipment shall be carefully masked with tape and paper to avoid overspray. Overspray shall be immediately removed at the contractor's expense. *All coating shall be terminated in clean straight lines*.

3.4 Inspect the roof surface and establish the presence of any blisters or cracks in the existing insulation, or saturated or delaminated foam or coating areas. Remove the materials from all areas where temporary repairs have been made. Prime all areas to receive insulation. Flash all new penetrations with insulation. Spot repairs must be ground to match surrounding grade and sealed with acrylic elastomer.

3.5 If any of the existing SPF roofing system is to be scarified, remove the existing coating and approximately ¼ -inch of existing polyurethane foam by scarifying. Insure that the remaining foam is clean, sound and dry. All scarified foam must be re-foamed at a minimum ½ -inch thickness and base coated the same day per manufacturer's recommendation. *There will be no exceptions.*

3.6 Remove all blisters to the deck and re-spray. Cracked, delaminated and saturated insulation shall be removed and the area re-sprayed. Grind all repairs to match the surrounding grade.

3.7 Repair all bird pecks and other mechanical damage by cutting away the damaged material or temporary repair materials and filling the void with a single component urethane caulking material per paragraph 2.2 above. Smooth the repaired area to conform to the surrounding roof grade.

Where the roofing system has failed or is damaged at existing perimeter edge metal, the edges may be repaired by trimming the damaged foam to sound foam and caulking and coating the repaired area.

Smooth the repaired area to conform to the surrounding roof grade.

4.0 APPLICATION OF POLYURETHANE INSULATION

4.1 Environmental Conditions

4.1.1 Wind velocity shall not exceed 12 miles per hour.

4.1.2 Application of spray insulation shall not proceed if ambient temperature is less than 50 degrees Fahrenheit or if the substrate temperature is less than 60 degrees Fahrenheit.

4.1.3 Spray insulation shall not be applied over moist substrates or where rain or inclement weather is imminent.

4.2 Spray Application

4.2.1 The polyurethane insulation shall be applied in minimum ½ inch lifts to a minimum thickness of one (1) inch over the existing scarified foam. *Additional foam thickness shall be applied to provide positive slope-to-drain as necessary.*

4.2.2 The insulation surface shall be free from bumps, pinholes and ridges. The surface shall exhibit a smooth or "orange peel" surface texture. Surfaces resembling "popcorn" or "tree bark" shall be deemed unacceptable.

5.0 APPLICATION OF FLUID APPLIED PROTECTIVE COATING

5.1 General

Sprayed polyurethane insulation must be protected from ultraviolet light in order to avoid degradation of the polymer. Coating also protects the insulation from water and adverse weather conditions. Coatings must be specifically formulated for use over sprayed polyurethane insulation.

Elastomeric Coating

The roof perimeter shall be coated in a picture frame fashion and backrolled. The coating is then to be applied to the properly prepared surface of the roof in two (2) uniform passes. The base coat shall be off-white in color and shall be applied at the rate of 2 gallon per 100 square feet, backrolled, and allowed to cure. The topcoat shall be white in color and shall be applied at the rate of 2 gallons per 100 square feet.

Broadcast 3M C-93 ceramic roofing granules into the wet topcoat at the rate of 40 lbs per 100 square feet, or to the point of refusal. Remove all loose granules after coating has cured.

6.0 WARRANTY AND CERTIFICATION

The contractor shall issue a Ten (10) year non-depreciating full system recoat warranty.

7.0 INSPECTION

A representative from the materials manufacturer and contractor shall inspect the roof after completion to assure that the work has been completed in conformance with the specification and accepted industry practice. All material thickness shall be verified.

8.0 CLEAN UP

Upon completion of all work covered in this specification, the contractor shall remove all equipment, material and debris, leaving the area in an undamaged and acceptable condition.

END OF SECTION

SECTION 092400 - CEMENT PLASTERING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Exterior plasterwork (stucco) for patching areas of existing plaster integral with remodel work.

B. Related Requirements:

1. Section 099000 “Painting” where cement plaster walls are patched.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store materials inside under cover and keep them dry and protected against damage from weather, moisture, direct sunlight, surface contamination, corrosion, construction traffic, and other causes.

1.6 FIELD CONDITIONS

A. Comply with ASTM C 926 requirements.

B. Exterior Plasterwork:

1. Apply and cure plaster to prevent plaster drying out during curing period. Use procedures required by climatic conditions, including moist curing, providing coverings, and providing barriers to deflect sunlight and wind.
2. Apply plaster when ambient temperature is greater than 40 deg F.
3. Protect plaster coats from freezing for not less than 48 hours after set of plaster coat has occurred.

PART 2 - PRODUCTS

2.1 METAL LATH

A. Expanded-Metal Lath: ASTM C 847, cold-rolled carbon-steel sheet with ASTM A 653, G60 hot-dip galvanized-zinc coating.

1. Diamond-Mesh Lath: Self-furring, 2.5 lb/sq. yd.
2. Flat-Rib Lath: Rib depth of not more than 1/8 inch
3. 3/8-Inch Rib Lath: 3.4 lb/sq. yd.

B. Wire-Fabric Lath:

1. Woven-Wire Lath: ASTM C 1032; self-furring, with stiffener wire backing, 1.4 lb/sq. yd.

C. Paper Backing: FS UU-B-790a, Type I, Grade D, Style 2 vapor-permeable paper.

1. Provide paper-backed lath unless otherwise indicated.

D. General: Comply with ASTM C 1063, and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.

E. Metal Accessories:

1. Foundation Weep Screed: Fabricated from hot-dip galvanized-steel sheet, ASTM A 653, G60 coating.
2. Cornerite: Fabricated from metal lath with ASTM A 653, G60, hot-dip galvanized-zinc coating.
3. External- (Outside-) Corner Reinforcement: Fabricated from metal lath with ASTM A 653, G60 hot-dip galvanized-zinc coating.
4. Cornerbeads: Fabricated from zinc-coated (galvanized) steel.

    a. Smallnose cornerbead with expanded flanges; use unless otherwise indicated.
    b. Smallnose cornerbead with perforated flanges; use on curved corners.
    c. Smallnose cornerbead with expanded flanges reinforced by perforated stiffening rib; use on columns and for finishing unit masonry corners.
    d. Bullnose cornerbead, radius 3/4 inch (19 mm) minimum, with expanded flanges; use at locations indicated on Drawings.

5. Casing Beads: Fabricated from zinc or zinc-coated (galvanized) steel square-edged style; with expanded flanges.
6. Control Joints: Fabricated from zinc-coated (galvanized) steel; one-piece-type, folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face of control joint.
7. Expansion Joints: Fabricated from zinc-coated (galvanized) steel; folded pair of unperforated screeds in M-shaped configuration; with expanded flanges.

8. Two-Piece Expansion Joints: Fabricated from -coated (galvanized) steel]; formed to produce slip-joint and square-edged reveal that is adjustable from 1/4 to 5/8 inch wide; with perforated flanges.

2.2 MISCELLANEOUS MATERIALS

A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.

B. Fiber for Base Coat: Alkaline-resistant glass or polypropylene fibers, 1/2 inch long, free of contaminants, manufactured for use in cement plaster.

C. Fasteners for Attaching Metal Lath to Substrates: ASTM C 1063.

D. Wire: ASTM A 641, Class 1 zinc coating, soft temper, not less than 0.0475-inch diameter unless otherwise indicated.

2.3 PLASTER MATERIALS

A. Portland Cement: ASTM C 150, [Type I

1. Color for Finish Coats: Gray.

B. Lime: ASTM C 206, Type S; or ASTM C 207, Type S.

C. Sand Aggregate: ASTM C 897.

2.4 PLASTER MIXES

A. General: Comply with ASTM C 926 for applications indicated.

1. Fiber Content: Add fiber to base-coat mixes after ingredients have mixed at least two minutes. Comply with fiber manufacturer's written instructions for fiber quantities in mixes, but do not exceed 1 lb of fiber/cu. yd. (of cementitious materials.

B. Base-Coat Mixes for Use over Metal Lath: Scratch and brown coats for three-coat plasterwork as follows:

1. Portland Cement Mixes:

a. Scratch Coat: For cementitious material, mix 1 part portland cement and 3/4 to 1-1/2 parts lime. Use 2-1/2 to 4 parts aggregate per part of cementitious material.
b. Brown Coat: For cementitious material, mix 1 part portland cement and 3/4 to 1-1/2 parts lime. Use 3 to 5 parts aggregate per part of cementitious material, but not less than volume of aggregate used in scratch coat.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect adjacent work from soiling, spattering, moisture deterioration, and other harmful effects caused by plastering.

B. Prepare smooth, solid substrates for plaster according to ASTM C 926.

3.3 INSTALLING METAL LATH

A. Metal Lath: Install according to ASTM C 1063.

1. Partition Framing and Vertical Furring: Install flat-riblath.

2. Flat-Ceiling and Horizontal Framing: Install 3/8-inch lath.

3.4 INSTALLING ACCESSORIES

A. Install according to ASTM C 1063 and at locations indicated on Drawings.

B. Reinforcement for External (Outside) Corners:

1. Install cornerbead at exterior locations.
2. Install cornerbead at interior locations.

C. Control Joints: Locate as indicated and approved by Architect for visual effect and as follows:

1. As required to delineate plasterwork into areas (panels) of the following maximum sizes:

a. Vertical Surfaces: 144 sq. f.
b. Horizontal and Other Nonvertical Surfaces: 100 sq. ft.

2. At distances between control joints of not greater than 18 feet o.c.
3. As required to delineate plasterwork into areas (panels) with length-to-width ratios of not greater than 2-1/2:1.
4. Where control joints occur in surface of construction directly behind plaster.
5. Where plasterwork areas change dimensions, to delineate rectangular-shaped areas (panels) and to relieve the stress that occurs at the corner formed by the dimension change.

3.5 PLASTER APPLICATION

A. General: Comply with ASTM C 926.

1. Do not deviate more than plus or minus 1/4 inch in 10 feet from a true plane in finished plaster surfaces when measured by a 10-foot straightedge placed on surface.
2. Finish plaster flush with metal frames and other built-in metal items or accessories that act as a plaster ground unless otherwise indicated. Where casing bead does not terminate plaster at metal frame, cut base coat free from metal frame before plaster sets and groove finish coat at junctures with metal.
3. Provide plaster surfaces that are ready to receive field-applied finishes indicated.

B. Walls; Base-Coat Mixes for Use over Metal Lath: For scratch and brown coats, for three-coat plasterwork with 3/4-inch total thickness, as follows:

1. Portland cement mixes.

C. Plaster Finish Coats: Apply to provide dash finish to match Architect's sample.

3.6 PLASTER REPAIRS

A. Repair or replace work to eliminate cracks, dents, blisters, buckles, crazing and check cracking, dry outs, efflorescence, sweat outs, and similar defects and where bond to substrate has failed.

3.7 CLEANING AND PROTECTION

A. Remove temporary protection and enclosure of other work after plastering is complete. Promptly remove plaster from door frames, windows, and other surfaces not indicated to be plastered. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged during plastering.

END OF SECTION 092400

SECTION - 096513 RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Resilient base.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified, not less than 12 inches long.

C. Samples for Initial Selection: For each type of product indicated.

D. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches long.

E. Product Schedule: For resilient base and accessory products.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within the range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.6 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 90 deg F, in spaces to receive resilient products during the following time periods:

1. 48 hours before installation.

2. During installation.

3. 48 hours after installation.

B. After installation and until Substantial Completion, maintain ambient temperatures within the range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 THERMOSET-RUBBER BASE

A. Product Standard: ASTM F 1861, Type TS (rubber, vulcanized thermoset), Group I (solid, homogeneous).

1. Style and Location:

a. Style A, straight.

B. Thickness: 0.125 inch.

C. Height: 4 inches.

D. Lengths: Coils in manufacturer's standard length.

E. Outside Corners: Preformed.

F. Inside Corners: Preformed.

G. Colors: As selected by Architect from full range of industry color.

2.3 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until they are the same temperature as the space where they are to be installed.

1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:

1. Remove adhesive and other blemishes from exposed surfaces.

2. Sweep and vacuum horizontal surfaces thoroughly.

3. Damp-mop horizontal surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

END OF SECTION 096513

SECTION 096813 - TILE CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes modular carpet tile.

B. Related Requirements:

1. Section 017419 “Construction Waste Management and Disposal” for recycling of existing carpet materials to be removed.
2. Section 024119 "Selective Demolition" for removing existing floor coverings.
3. **Section 096513 "Resilient Base and Accessories"** for resilient wall base and accessories installed with carpet tile.
4. Section 096613 “Resilient Base and Materials” for resilient base to be incorporated into modular carpeting system.

1.3 REFERENCES

A. American Association of Textile Chemists and Colorists (AATCC):

1. AATCC 16-E: Test Method for Colorfastness to Light
2. AATCC 134: Test Method for Electrostatic Propensity of Carpets.
3. AATCC 165: Test Method for Colorfastness to Crocking, Textile Floor Coverings.
4. AATCC 174: Test Method for Antimicrobrial Activity Assessment of Carpets.
5. AATCC 175: Test Method for Stain Resistance for Pile Floor Coverings.

B. ASTM International:

1. ASTM E 648: Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
2. ASTM E 662: Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
3. ASTM E 2471: Standard Test Method for Using Seeded-Agar for the Screening Assessment of Antimicrobrial Activity in Carpets.
4. ASTM F 710: Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
5. ASTM F 2170: Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

C. California Department of Public Health (CDPH):

1. Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers – Version 1.1, February 2010.

D. CALGreen: California Green Building Standards Code - California Code of Regulations, Title 24, Part 11.

E. Carpet and Rug Institute (CRI):

1. CRI Carpet Installation Standard.
2. CRI Green Label Plus testing program.

F. Chemical Abstract Service (CAS):

1. Chemical Abstract Registration Number (CASRN).

G. Collaborative for High Performance Schools (CHPS).

1. Criteria Interpretation Library.

   a. EQ 7.0 – Low Emitting Materials.
   b. EQ 7.1 – Additional Low Emitting Materials.

H. Cradle to Cradle Products Innovation Institute:

1. Cradle to Cradle Certified Product Standard.

I. European Standards (EN):

1. EN 15804: Sustainability of Construction Works – Environmental Product Declarations – Core Rules for the Product Category of Construction Products.

J. GreenScreen for Safer Chemicals:

1. GreenScreen Chemical Hazard Assessment Procedure V1.2.

K. Health Product Declaration Collaborative:

1. Health Product Declaration Open Standard.

L. International Certified Floorcovering Installers Association.

1. Commercial II certification level.

M. International Organization for Standardization (ISO):

1. ISO 14021: Environmental Labels and Declarations – Self-Declared Environmental Claims (Type II Environmental Labeling).
2. ISO 14025: Environmental Labels and Declarations – Type III Environmental Declarations – Principals and Procedures.
3. ISO 14040: Environmental Management – Life Cycle Assessment – Principals and Framework.
4. ISO 14044: Environmental Management – Life Cycle Assessment – Requirements and Guidelines.
5. ISO 21930: Sustainability in Building Construction – Environmental Declaration of Building Products.

N. NSF International/American National Standards Institute (ANSI):

1. NSF/ANSI 140: Sustainability Assessment for Carpet.

O. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

P. SCS Global Services:

1. Sustainable Carpet Certification.

Q. South Coast Air Quality Management District (SCAQMD):

1. Rule 1168 – Adhesive and Sealant Applications.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
2. Include manufacturer's written installation recommendations for each type of substrate.

B. Shop Drawings: For carpet tile installation, plans showing the following:

1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type, color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of installation.
6. Pattern type, location, and direction.
7. Pile direction.
8. Type, color, and location of insets and borders.
9. Type, color, and location of edge, transition, and other accessory strips.
10. Transition details to other flooring materials.

C. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch long Samples.

D. Samples for Initial Selection: For each type of carpet tile.

1. Include Samples of exposed edge, transition, and other accessory stripping involving color or finish selection.

E. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch long Samples.

F. Product Schedule: For carpet tile. Use same designations indicated on Drawings.

G. Sustainable Product Certification: Provide ANSI/NSF 140 certification for carpet products.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.

C. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:

1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Carpet Tile: Full-size units equal to **5** percent of the amount installed for each type indicated, but not less than 10 sq. yd.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the **Master II** certification level.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Build mockups at locations and in sizes shown on Drawings.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Comply with CRI's "CRI Carpet Installation Standard."

1.10 FIELD CONDITIONS

A. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.

B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.

C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

1.11 WARRANTY

A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.

1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
2. Failures include, but are not limited to, the following:

a. More than 10 percent edge raveling, snags, and runs.
b. Dimensional instability.
c. Excess static discharge.
d. Loss of tuft-bind strength.
e. Loss of face fiber.
f. Delamination.

3. Warranty Period: **10** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CALGREEN REQUIREMENTS

A. General: Conform with all applicable requirements of the California Green Building Standards Code (CALGreen).

B. Provide adhesives and adhesive primers which comply with current VOC content limits of the South Coast Air Quality Management District (SCAQMD) Rule 1168, except as noted otherwise below. Such products shall also comply with Rule 1168 prohibition of the use of certain toxic compounds (chloroform, ethylene, dichloride, methylene chloride, perchloroethylene, and trichloroethyelen).

1. Aerosol adhesives and similar unit sizes of adhesives, and sealants (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions of use of certain toxic compounds, of the California Code of Regulations, Title 17, commencing with Section 94507.

C. Carpet Tile: Provide carpet tile products which meet at least one of the following:

1. Certified as complying with the testing and product requirements of the Carpet and Rug Institute's Green Label Plus program.
2. Compliant with the VOC-emission limits specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010.
3. Meets requirements of NSF/ANSI 140 for certification at the Gold level or higher.
4. Meets requirements of SCS Global Services Sustainable Carpet Certification program at the Gold level or higher.
5. Compliant with 2014 California Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly

D. Metal Edge/Transition Strips: Extruded aluminum with [**mill**] <**Insert finish**> finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics for Tile Carpeting:

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq cm, as determined by testing identical products according to ASTM E 648.
2. Smoke Density: 450 or less, determined by testing identical products according to ASTM E 662.

2.3 CARPET TILE

A. Modular Carpet Tile **C-1**; **Walk-Off Mat:** Modular carpet tile system designed for specific installation per manufacturer's recommendations. Maintain a visually continuous and finished overall appearance without any tile appearing improperly positioned.

1. Product: ***Interface, Inc.; SR799***.

    a. Color: Onyx

2. Construction: Tufted Textured Loop
3. Fiber Content: 100 percent nylon.
4. Fiber Type: Aquafil.
5. Dye Method: 100 percent solution dyed.
6. Pile Characteristic: Tip-sheared.
7. Pile Height: .19 inch.
8. Stitches: 10 per inch.
9. Gage: 1/12 inch.
10. Face Yarn Weight: 26 oz per sq yd.
11. Density: 6,686 oz per cu yd.
12. Primary Backing/Backcoating: Non-woven fiberglass-reinforced PVC.
13. Secondary Backing: Fiberglass-reinforced thermoplastic composite; 100 percent recyclable.

    a. Provide minimum 39 percent recycled content, post-consumer or postindustrial in secondary backing material.

14. Size: 19.6 inches square.
15. Applied Soil-Resistance Treatment: Manufacturer's standard material; 8.0 on the Red 40 Stain Scale, per AATCC 175.
16. Antimicrobial Treatment: Manufacturer's standard material; passes AATCC 174 (minimum 90 percent reduction of microorganisms according to Part 2; no macroscopic growth according to Part 3); passes ASTM E 2471.
17. Performance Characteristics: As follows:

    a. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.
    b. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
    c. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.

18. Minimum Recycled Content:

a. Preconsumer: 33 percent.
b. Postconsumer: 33 percent.

19. VOC Emissions:

a. Complies with requirements specified in “CALGreen Requirements” Article.
b. Certification: CRI Green Label Plus.

B. Modular Carpet Tile **C-2; Field**: Modular carpet tile system designed for specific installation per manufacturer’s recommendations. Maintain a visually continuous and finished overall appearance without any tile appearing improperly positioned.

1. Product: ***Interface, Inc.; Cubic***.

a. Color: T.B.D.

2. Construction: Tufted.
3. Fiber Content: 100 percent nylon Type 6, 6.
4. Fiber Type: Aquafil.
5. Dye Method: 100 percent solution dyed.
6. Pile Characteristic: Textured loop.
7. Pile Height: .145 inch.
8. Stitches: 8.16 per inch.
9. Gage: 1/12 inch.
10. Face Yarn Weight: 18 oz per sq yd.
11. Density: 6,968 oz per cu yd.
12. Primary Backing/Backcoating: Non-woven fiberglass-reinforced PVC.
13. Secondary Backing: Fiberglass-reinforced thermoplastic composite; 100 percent recyclable.

a. Provide minimum 39 percent recycled content, post-consumer or postindustrial in secondary backing material.

14. Size: 50 cm by 50 cm (19.69 inches square).
15. Applied Soil-Resistance Treatment: Manufacturer’s standard material; 8.0 on the Red 40 Stain Scale, per AATCC 175.
16. Antimicrobial Treatment: Manufacturer’s standard material; passes AATCC 174 (minimum 90 percent reduction of microorganisms according to Part 2; no macroscopic growth according to Part 3).
17. Performance Characteristics: As follows:

a. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.
b. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
c. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.

18. Minimum Recycled Content:

a. Preconsumer: 45 percent.

19. VOC Emissions:

a. Complies with requirements specified in “CALGreen Requirements” Article.
b. Certification: CRI Green Label Plus.

2.4 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cementbased formulation provided or recommended by carpet tile manufacturer.

B. Primer/Sealer: Carpet manufacturer's standard sealer material designed to seal gypsum-based underlayment surfaces.

C. Corner Connectors: Manufacturer's standard adhesively-surfaced 3-inch by 3-inch square tabs for connecting underside of corners of four adjacent carpet tile units to maintain a tight joint on all sides of tile, thereby maintaining an overall stable surface. Tabs are surfaced with pressure-sensitive acrylic adhesive on one side, only, of polyester backing, so as not to adhere tiles to substrate.

1. Product: Interface, Inc.; TacTiles.

D. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.

1. VOC Content: Complies with requirements specified in "CALGreen Requirements" Article.

E. Resilient Transition Moldings: As specified in Section 09 65 13 "Resilient Base and Accessories."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.

B. Examine carpet tile for type, color, pattern, and potential defects.

C. Verify that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might show through surface or interfere with adhesion of carpet tile and accessories

D. For painted subfloors, perform bond test recommended in writing by adhesivemanufacturer.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General: Comply with CRI's "CRI Carpet Installation Standard," and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.

B. Concrete substrates: Prepare according to ASTM F 710.

1. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using

solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturer.

2. Refer to Section 090565 “Concrete Moisture-Control System” for moisture and alkalinity testing and treatment. Proceed with installation only after substrates pass testing.
3. Adhesion Testing: Perform tests recommended by carpet tile manufacturer. Proceed with installation only after substrates pass testing.

C. Metal Substrates: Clean grease, oil, soil, and rust, and prime if recommended in writing by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.

D. Use trowelable leveling and patching compounds, according to manufacturer’s written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes, and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer’s written instructions.

E. Apply primer/sealer over gypsum-based cementitious underlayment in accordance with carpet manufacturer’s written instructions and as required to ensure proper adhesion of carpet to underlayment surface.

F. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 CARPET TILE INSTALLATION

A. General: Comply with with CRI’s “Carpet Installation Standard,” Section 18, “Modular Carpet,” and with carpet tile manufacturer’s written installation instructions.

B. Installation Method: As recommended in writing by carpet tile manufacturer, and as follows:

1. TacTiles

C. Maintain dye lot integrity. Do not mix dye lots in same area.

D. Maintain carpet tile patterns indicated on Drawings.

E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and builtin furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.

H. Install pattern parallel to walls and borders.

I. Do not bridge building expansion joints with carpet tiles.

J. At access flooring, stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

K. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of carpet tiles that would otherwise be exposed.

3.4 CLEANING AND PROTECTION

A. Perform the following operations immediately after installing carpet tile.

1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
2. Remove yarns that protrude from carpet tile surface.
3. Vacuum carpet tile using commercial machine with face-beater element.

B. Protect installed carpet tile to comply with CRI's "CRI Carpet Installation Standard," Section 20, "Protecting Indoor Installations."

C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 096813

SECTION 312000 - EARTH MOVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Preparing subgrades for pavements.
2. Excavating and backfilling pavements.
3. Drainage course for asphalt pavements on-grade.
4. Subbase course and base course for asphalt paving.
5. Excavating and backfilling trenches for utilities.

B. Backfill: Soil material or controlled low-strength material used to fill an excavation.

1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.

C. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

D. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

E. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.

F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Bulk Excavation: Excavation more than 10 feet in width and more than 30 feet in length.
3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.

G. Fill: Soil materials used to raise existing grades.

H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

I. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement.

J. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.

K. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of the following manufactured products required:

1. Warning tapes.

B. Samples for Verification: For the following products, in sizes indicated below:

1. Warning Tape: 12 inches long; of each color.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:

1. Classification according to ASTM D 2487.
2. Laboratory compaction curve according to ASTM D 1557.

1.5 POJECT CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

B. The following practices are prohibited within protection zones:
1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Foot traffic.
4. Erection of sheds or structures.
5. Impoundment of water.
6. Excavation or other digging unless otherwise indicated.
7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

C. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.

C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.

1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.

F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.

H. Drainage Course: Narrowly graded mixture of **washed** crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve.

I. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D 448; coarse-aggregate grading Size 67; with 100 percent passing a 1-inch sieve and 0 to 5 percent passing a No. 4 sieve.

J. Sand: ASTM C 33; fine aggregate.

K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

L. Produce conventional-weight, controlled low-strength material with 140-psi compressive strength when tested according to ASTM C 495.

2.2 ACCESSORIES

A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a

protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored as follows:

1. Red: Electric.
2. Yellow: Gas, oil, steam, and dangerous materials.
3. Orange: Telephone and other communications.
4. Blue: Water systems.
5. Green: Sewer systems.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.

B. Protect and maintain erosion and sedimentation controls during earth moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 DEWATERING

A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.

1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

3.3 EXCAVATION, GENERAL

A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.
2. Remove rock to lines and grades indicated to permit installation of permanent construction without exceeding the following dimensions:

    a. 24 inches outside of concrete forms other than at footings.
    b. 12 inches outside of concrete forms at footings.
    c. 6 inches outside of minimum required dimensions of concrete cast against grade.
    d. 6 inches beneath bottom of concrete slabs-on-grade.
    e. 6 inches beneath pipe in trenches, and the greater of 24 inches wider than pipe or 42 inches wide.

3.4 EXCAVATION FOR PAVEMENTS

A. Excavate surfaces under pavements to indicated lines, cross sections, elevations, and subgrades.

3.5 SUBGRADE INSPECTION

A. Notify Architect when excavations have reached required subgrade.

B. If Architect determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.

C. Proof-roll subgrade below the pavements with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph.
2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.

3.6 UNAUTHORIZED EXCAVATION

A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.

1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.7 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.8 BACKFILL

A. Place and compact backfill in excavations promptly, but not before completing the following:

1. Construction below finish grade including, where applicable, subdrainage, dampproofing, and waterproofing.
2. Surveying locations of underground utilities for Record Documents.
3. Testing and inspecting underground utilities.
4. Removing concrete formwork.
5. Removing trash and debris.
6. Removing temporary shoring and bracing, and sheeting.
7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

3.9 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:

1. Under grass and planted areas, use satisfactory soil material.
2. Under walks and pavements, use engineered fill and class 2 aggregate base.
3. Under building slabs, use engineered fill and class 2 aggregate base.
4. Under footings and foundations, use engineered fill and class 2 aggregate base.

C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.10 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.

1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.11 COMPACTION OF SOIL BACKFILLS AND FILLS

A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.

C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 1557:

1. Under avements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.

3.12 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

1. Provide a smooth transition between adjacent existing grades and new grades.
2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Pavements: Plus or minus 1/2 inch.

3.13 SUBBASE AND BASE COURSES UNDER PAVEMENTS

A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.

B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:

1. Place base course material over subbase course under hot-mix asphalt pavement.
2. Shape subbase course and base course to required crown elevations and cross-slope grades.
3. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
4. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
5. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 1557.

3.14 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspections:

1. Determine prior to placement of fill that site has been prepared in compliance with requirements.
2. Determine that fill material and maximum lift thickness comply with requirements.
3. Determine, at the required frequency, that in-place density of compacted fill complies with requirements.

B. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

C. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable. Tests will be performed at the following locations and frequencies:

1. Paved Areas: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area, but in no case fewer than three tests.

E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.15 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

1. Scarify or remove and replace soil material to depth as directed by Architect; reshape and recompact.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.16 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 312000

SECTION 321216 -ASPHALT PAVING PART 1 -GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1 Hot-mix asphalt paving.
2 Asphalt surface treatments.

B. Related Requirements:

1. Section 312000 "Earth Moving" for subgrade preparation, fill material, unbound-aggregate subbase and base courses.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1 Include technical data and tested physical and performance properties.
2 Job-Mix Designs: For each job mix proposed for the Work.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For manufacturer.

B. Material Certificates: For each paving material.

C. Material Test Reports: For each paving material, by a qualified testing agency.

D. Field quality-control reports.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by authorities having jurisdiction or the DOT of state in which Project is located.

B. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.

1.6 FIELD CONDITIONS

A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:

1 Prime Coat: Minimum surface temperature of 60 deg F.
2 Tack Coat: Minimum surface temperature of 60 deg F.
3 Slurry Coat: Comply with weather limitations in ASTM D 3910.
4 Asphalt Base Course: Minimum surface temperature of 40 deg F and rising at time of placement.
5 Asphalt Surface Course: Minimum surface temperature of 60 deg F at time of placement.

PART 2 - PRODUCTS

2.1 AGGREGATES

A. General: Use materials and gradations that have performed satisfactorily in previous installations.

B. Coarse Aggregate: ASTM D 692, sound; angular crushed stone, and crushed gravel.

C. Fine Aggregate: ASTM D 1073 or AASHTO M 29, sharp-edged natural sand or sand prepared from stone, gravel, or combinations thereof.

1. For hot-mix asphalt, limit natural sand to a maximum of 20 percent by weight of the total aggregate mass.

2.2 ASPHALT MATERIALS

A. Asphalt Binder: AASHTO M 320, PG 64-10.

B. Asphalt Cement: ASTM D 946 for penetration-graded material.

C. Cutback Prime Coat: ASTM D 2027, medium-curing cutback asphalt, MC-250.

D. Emulsified Asphalt Prime Coat: ASTM D 977 or AASHTO M 140 emulsified asphalt, or ASTM D 2397 or AASHTO M 208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

E. Tack Coat: ASTM D 977 or AASHTO M 140 emulsified asphalt, or ASTM D 2397 or AASHTO M 208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

F. Water: Potable.

2.3 AUXILIARY MATERIALS

A. Herbicide: Commercial chemical for weed control, registered by the EPA, and not classified as "restricted use" for locations and conditions of application. Provide in granular, liquid, or wettable powder form.

B. Sand: ASTM D 1073 or AASHTO M 29, Grade No. 2 or No. 3.

2.4 PAVEMENT MARKINGS

A. Pavement-Marking Paint: Alkyd-resin type, lead and chromate free, ready mixed, complying with AASHTO M 248, Type N; colors complying with FS TT-P-1952.

1. Color: White, Yellow, and Blue.

2.5 MIXES

A. Hot-Mix Asphalt: Dense-graded, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction ; designed according to procedures in AI MS-2, "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types"; and complying with the following requirements:

1 Provide mixes with a history of satisfactory performance in geographical area where Project is located.
2 Base Course: Caltrans standard Specification Type B asphalt ¾ “aggregate.
3 Surface Course: Caltrans standard Specification Type B asphalt ½” aggregate.

B. Emulsified-Asphalt Slurry: ASTM D 3910, Type 2.

PART 3 -EXECUTION

3.1 EXAMINATION

A. Verify that subgrade is dry and in suitable condition to begin paving.

B. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

1 Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph.
2 Proof roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons.
3 Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

C. Proceed with paving only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

B. Herbicide Treatment: Apply herbicide according to manufacturer's recommended rates and written application instructions. Apply to dry, prepared subgrade or surface of compacted-aggregate base before applying paving materials.

1. Mix herbicide with prime coat if formulated by manufacturer for that purpose.

C. Emulsified Asphalt Prime Coat: Apply uniformly over surface of compacted unbound-aggregate base course at a rate of 0.10 to 0.30 gal./sq. yd. per inch depth. Apply enough material to penetrate and seal, but not flood, surface. Allow prime coat to cure.

— If prime coat is not entirely absorbed within 24 hours after application, spread sand over surface to blot excess asphalt. Use enough sand to prevent pickup under traffic. Remove loose sand by sweeping before pavement is placed and after volatiles have evaporated.
— Protect primed substrate from damage until ready to receive paving.

3.3 PLACING HOT-MIX ASPHALT

A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.

1 Place hot-mix asphalt base course in one lift of 2 inches.
2 Place hot-mix asphalt surface course in single lift of 1 inch.
3 Spread mix at a minimum temperature of 250 deg F.
4 Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes unless otherwise indicated.
5 Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.

B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.

1 After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Overlap mix placement about 1 to 1-1/2 inches from strip to strip to ensure proper compaction of mix along longitudinal joints.
2 Complete a section of asphalt base course before placing asphalt surface course.

C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.4 JOINTS

A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.

1 Clean contact surfaces and apply tack coat to joints.
2 Offset longitudinal joints, in successive courses, a minimum of 6 inches.
3 Offset transverse joints, in successive courses, a minimum of 24 inches.
4 Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."
5 Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
6 Compact asphalt at joints to a density within 2 percent of specified course density.

3.5 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.

1. Complete compaction before mix temperature cools to 185 deg F.

B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements

C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:

1. Average Density: 93 percent of reference maximum theoretical density according to ASTM D 2041, but not less than 91 percent or greater than 97 percent.

D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.

F. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.6 INSTALLATION TOLERANCES

A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:

1 Base Course: Plus or minus 1/2 inch.
2 Surface Course: Plus 1/4 inch, no minus.

B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:

1 Base Course: 1/4 inch.
2 Surface Course: 1/8 inch.

3.7 PAVEMENT MARKING

A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect.

B. Allow concrete paving to cure for a minimum of 28 days and be dry before starting pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce markings of dimensions indicated with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils.

1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils, firmly secured to concrete surface. Mask an extended area beyond edges of each stencil to prevent paint application beyond stencil. Apply paint so that it cannot run beneath stencil.

3.8 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined according to ASTM D 3549.

C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.

D. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement according to ASTM D 979 or AASHTO T 168.

1. Reference maximum theoretical density will be determined by averaging results from four samples of hot-mix asphalt-paving mixture delivered daily to site, prepared according to ASTM D 2041, and compacted according to job-mix specifications.
2. In-place density of compacted pavement will be determined by testing core samples according to ASTM D 1188 or ASTM D 2726.

a. One core sample will be taken for every 1000 sq. yd. or less of installed pavement, with no fewer than three cores taken.
b. Field density of in-place compacted pavement may also be determined by nuclear method according to ASTM D 2950 and correlated with ASTM D 1188 or ASTM D 2726.

E. Replace and compact hot-mix asphalt where core tests were taken.

F. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

END OF SECTION

WAYSIDE ELEMENTARY SCHOOL
HVAC REPLACEMENT
BAKERSFIELD, CALIFORNIA

DSA Application #: 03-12253

ADD No. 2

LIST OF AFFECTED SHEETS

T1.00, A1.00, A2.10, A2.11, A2.20, A2.21, A3.11, A3.12, A4.10, A4.30, A6.10, A6.11, A6.20, A6.21, A8.01, M.011, M2.11, M2.21, M2.31, M2.41, M2.51, E0.01, E1.00R, E2.00, E2.10, E2.11, E2.20, E2.21, E2.30, E2.31, E3.00, E3.01, E3.10, E3.11, E3.20, E3.21, E4.03 & E5.00

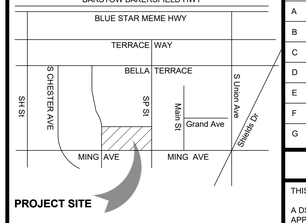
WAYSIDE ELEMENTARY SCHOOL
HVAC REPLACEMENT
BAKERSFIELD CITY SCHOOL DISTRICT
1000 MING AVENUE
BAKERSFIELD, CA 93307

1" = 50'-0" 150 100 50 0 50
1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4

ABBREVIATIONS

ABOVE	ABV.	DOOR	DR.	LAMINATE	LAM.	BASE	
ABOVE FINISHED FLOOR	A.F.F.	DOUBLE	DBL	LAVATORY	LAV.		
		DOWN	DN.	LEFT HAND	LH.	SANITARY NAPKIN DISPENSER	S.N.D.
ACCESSIBLE	A.C.C.	DOWNSPOUT	D.S.	LINOLEUM	LINO.	SANITARY NAPKIN RECEPTACLE	S.N.R.
ACOUSTICAL	ACOUST., ACT.	DRAWING	DRWG.	LONG	LG.	SCHEDULE	SCH.
ADJACENT	ADJ	DRINKING FOUNTAIN	D.F.	MACHINE BOLT	M.B.	SEAT COVER DISPENSER	S.C.D.
ADJUSTABLE	ADJUST.			MACHINE SCREW	M.S.	SECTION	SECT.
AIR CONDITIONING	A/C	EACH	EA.	MANUFACTURER	MFGR.	SELF-TAPPING	S.T.
ALUMINUM	ALUM.,AL.	ELECTRIC	ELEC.	MATERIAL	MAT.,MATL.	SHEATHING	SHTG.
ANCHOR BOLT	A.B.	ELECTRIC DRINKING	E.D.F.	MAXIMUM	MAX.	SHEET	SHT.
ANODIZED	ANOD.	EQUAL	EQ.	MECHANICAL	MECH.	SHEET METAL	SHT.
ARCHITECTURAL	ARCH.	EQUIPMENT	EQUIP.	MEDIUM	MED.	SHEET METAL & AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION	SMACNA
ASPHALT CONCRETE	A.C.	ESTIMATE	EST.	MEMBRANE	MBNE.		
		EXHAUST	EXH.	METAL	MTL.		
		EXHAUST FAN	E.F.	METAL PLANAR CEILING	M.P.C.		
		EXISTING	(E)	METAL TOILET PARTITION	M.T.P.		
BACKBOARD	BACKBRD.	EXPANSION	EXP.	MILLIMETER	MILL.	SHEET METAL SCREWS	S.M.S.
BEAM	BM	EXPANSION JOINT	E.J.	MINIMUM	MIN.	SHELVES	SH.
BENCH MARK	B.M.	EXTERIOR	EXT.	MISCELLANEOUS	MISC.	SIMILAR	SIML.,SIM.
BENT ANCHOR BOLT	BAB.	FABRIC WALL COVERING	F.W.C.	MULLION	MULL.	SINK	S.
BETWEEN	BTWN.	FACE OF BLOCK	F.O.B.	NOT IN CONTRACT	N.I.C.	SOAP DISPENSER	S.D.
BLOCK	BLK.	FACE OF CONCRETE	F.O.C.	NOT TO SCALE	N.T.S.	SPECIFICATION	SPEC.
BOTTOM	BTM.,BTTM.	FACE OF STUD	F.O.S.	NUMBER	NO.,#	SPLASH	SPL.
BOUNDARY NAILING	B.N.	FACE OF WALL	F.O.W.			SPLASH BLOCK	S.B.
BUILDING	BLDG.	FACTORY FINISH	F.F.	OPPOSITE HAND	O.H.	SQUARE	SQ.
		FEET/FOOT	F.T.	OPPOSITE	OPP.	STAINLESS STEEL	S.S.
CABINET	CAB.	FEMININE NAPKIN DISPOSAL	F.N.D.	ON CENTER	O.C.	STANDARD	STD.
CADMIUM	CAD.	FIBER GLASS	F.G./FIBERGL.	OPENING	OPG.	STEEL	STL.
CARPET	CPT.	FINISH	FIN.	OUTSIDE DIAMETER /DIMENSION	O.D.	STORAGE	STOR.
CARRIAGE BOLT	C.B.	FIRE EXTINGUISHER CABINET	F.E.C.	OVAL HEAD	O.H.	STIFFENER	STIFF.
CAST IRON	C.I.	FIRE RATED	F.R.G.B	OVER (ON)	O/	STRUCTURAL	STRUCT.
CEILING	CLG.,CEIL'G.	FIRE TREATED	F.T.	OVERFLOW	OVFL.	SUSPENDED	SUSP.
CEILING DIFFUSER	C.D.	FIXED GLASS	GL.	OVERHAND	OH.	SWITCH	SW.
CEILING GRILLE	C.G.	FLAT HEAD	F.H.	PAINT	PT.	TELEPHONE	TEL.,TELE.
CEILING REGISTER	C.R.	FLOOR	FLR.	PAIR	PR.	THICK	THK.
CEMENT	CEM.	FLOOR DRAIN	F.D.	PAPER TOWEL DISPENSER	P.T.D.	THRESHOLD	THR.
CENTERLINE	C.L.,℄	FLUORESCENT	FLUOR.	PLASTIC	PLAS.	TOILET PAPER	T.P.
CERAMIC TILE	C.T.	FOOTING	FTG.	PLATE	PL.	TOILET PAPER HOLDER	T.P.H.
CIRCUIT	CRT.	FOUNDATION	FDN.	PLATED	PLTD.	TOLERANCE	TOL.
CLEANOUT	C.O.	FRAMING	FRM'G.	PLUMBING	PLBG.	TRANSFORMER	TRANS.
CLEAR	CLR.	GAGE,/GAUGE	GA.	PLYWOOD	PLYWD.	TYPICAL	TYP.
COLD WATER	C.W.	GALVANIZED	GALV.	POINT	PT.	U.L. LABORATORY	UNDERWRITERS
COLUMN	COL.	GALVANIZED IRON	G.I.	POINT OF CONNECTION	P.O.C.	UNLESS OTHERWISE NOTED	U.O.N.
COMBINATION / COMBUSTION	COMB.	GLASS	GL.	POUND	LB.,#	URINAL	UR.
COMPOSITION,	COMP.	GRAB BAR	G.B.	POUND PER SQ. FOOT	P.S.F.	VENTILATE	VENT.
COMPOSITE CONCRETE	CONC.	GRADE	GR.	POUND PER SQ. INCH	P.S.I.	/VENTILATION	
CONCRETE MASONRY UNIT	C.M.U.	GROUND	GND.	QUARTER	QTR.	VENT THROUGH ROOF	V.T.R.
CONDITION	COND.	GYPSUM BOARD	G.B.,GYP.BD.	RADIUS	R.,RAD.	VERTICAL	VERT.
CONNECTION	CONN.	HARDWARE	HDW.EDWR.	RAINWATER LEADER	R.W.L.	VINYL COMPOSITION TILE	V.C.T.
CONSTRUCTION	CONST.	HEAD	HD.			VINYL WALL COVERING	V.W.C.
CONSTRUCTION JOINT	C.J.	HEADER	HDR.	RECEPTACLE	RECEPT.	VOLUME	VOL.
CONTINUOUS	CONT.	HEIGHT	HT.,H.	REFLECTED	REFL'D.	WATER CLOSET	W.C.
CONTRACTOR	CONTR.	HOLLOW METAL	H.M.	REFRIGERATOR	REF.	WATER PROOF	W.P.
COORDINATE	COORD.	HORIZONTAL	HORIZ.	REINFORCING	REINF.	WATER RESISTANT	W.R.
COUNTERSINK	CSK.	HOT WATER	H.W.	REMOVABLE	REMOV.	WIDTH	W.
		HOSE BIBB	H.B.	REQUIRED	REQ'D.	WIRE GLASS	W.GL.
DEPARTMENT	DEPT.	INCH	IN.	RESILIENT	RES.	WITH	W/
DEPTH, DEEP	D.	INSIDE DIAMETER/ DIMENSION	I.D.	REVISE,.REVISION	REV.	WITHOUT	W/O
DETAIL	DET.,DTL.	INSULATION	INSUL.	RIGHT HAND	R.G.	WOOD	WD.
DIAGONAL	DIAG.	INTERIOR	INT.	ROOF DRAIN	R.D.	WOOD SCREWS	W.S.
DIAMETER	DIA.			RUBBER TOPSET	R.T.B.		
DIMENSION	DIM.						
DISPENSER	DISP.	JAMB	JB.				
/DISPOSAL		JOINT	JT.				
DIVISION	DIV.						

VICINITY MAP



PROJECT DIRECTORY

OWNER:
BAKERSFIELD CITY SCHOOL DISTRICT
MARK LUQUE,
SUPERINTENDENT
1300 BAKER ST,
BAKERSFIELD, CA 93305
TEL: 559-457-3074
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TEL: 559-436-0881
EMAIL: llum@somam.com

BUILDING DATA

BLDG No.	BUILDING DESCRIPTION	OCC. TYPE	AREA (S.F.)	CONST. TYPE	DSA APPLICATION NUMBER AND YEAR	
A	CLASSROOMS	E	6821	V-B	5633 53548	1948 1990
B	CLASSROOMS	E	6921	V-B	5633 53548	1948 1990
C	CLASSROOMS KINDERGARTEN	E	9209	V-B	5633 53548	1948 1990
D	CLASSROOMS	E	6723	V-B	5633 53548	1948 1990
E	CLASSROOMS	E	6829	V-B	5633 53548	1948 1990
F	MULTI-PURPOSE	A-2	6203	V-B	5633 53548	1948 1990
G	BOOK / SUPPLY	B	1343	V-B	5633 53548	1948 1990

INSPECTOR OF RECORD

THIS PROJECT REQUIRES A CLASS 3 INSPECTOR.

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA AND THE RESPONSIBLE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK.

THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR .

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020*

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR.
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR.
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR.
- 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2016 NFPA-72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)
- 2016 NFPA-80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES
- 2003 UL-464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES
- 1999 UL-521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
- 2002 (R2010) UL-1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED
- FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED IN THE SHEET INDEX AND CHECKED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)

"THE STATEMENT OF GENERAL CONFORMANCE" SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTION 17302 AND 17138 OF THE EDUCATIONAL CODE AND SECTIONS 4-336, 4-431 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-417(b))

SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.

APPLICABLE:

☒ STRUCTURAL ☐ PLUMBING ☒ MECHANICAL ☒ ELECTRICAL ☐ CIVIL

SIGNATURE OF THE ARCHITECT/ENGINEER — DATE: 9/9/2022
NAME, TITLE, AFFILIATION: CURTIS FLYNN, ARCHITECT, INTEGRATED DESIGNS BY SOMAM, INC.
LICENSED NUMBER: C-28966 — EXPIRATION DATE: 05-31-23

SYMBOLS

SECTION KEY
A / A3.03 — SECTION IDENTIFICATION / SHEET NUMBER

DETAIL KEY
1 / A2.01 — DETAIL NUMBER / SHEET NUMBER

INTERIOR ELEVATION KEY
A, B, C, D — ELEVATION DIRECTION
1 / A5.01 — ELEVATION IDENTIFICATION / SHEET NUMBER

+1'-0" — ELEVATION DATUM
INDICATES HEIGHT IN RELATION TO 0'-0"

OFFICE / 100 — ROOM NAME / ROOM NUMBER

A — WINDOW SCHEDULE KEY

1 — KEYNOTE SCHEDULE KEY

201 — DOOR SCHEDULE KEY

SCOPE OF WORK

- REPLACE EXISTING UNIT VENTILATORS, AIR HANDLERS, AND MAKE-UP AIR UNITS IN BUILDINGS A, B, C, D, E, AND F. WITH MODERN, MORE EFFICIENT ROOF TOP PACKAGE UNITS
- REMOVE ALL EXISTING OUTDATED, INEFFICIENT, CENTRAL PLANT EQUIPMENT FROM THE CHILLER YARD AFTER THE NEW EQUIPMENT IS APPROVED AND FULLY OPERATIONAL
- UPGRADE FIRE ALARM SYSTEM.

SHEET INDEX

Owner:
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
E: design@somam.com
integrateddesigns.com

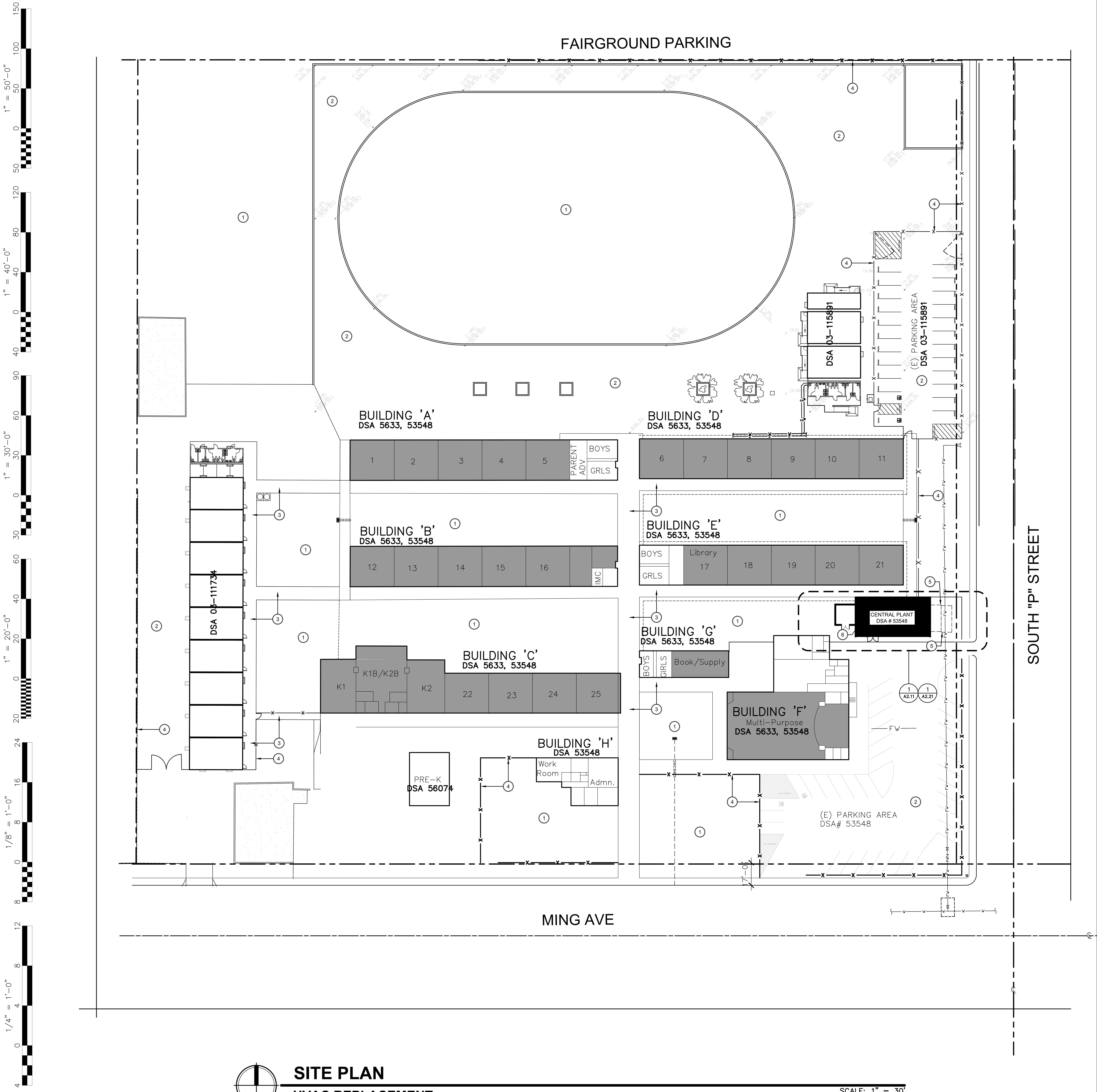
Stamp:
LICENSED ARCHITECT CURTIS E. FLYNN No. C 28966 REN. 5-31-23 STATE OF CALIFORNIA

Sheet Title:
TITLE SHEET

Job No.:
5526

Sheet No.:
T0.00

Release: Addendum 2 1 9/9/2022



SITE PLAN

HVAC REPLACEMENT

SCALE: 1" = 30'

CODE ANALYSIS

BUILDING A

BUILDING USE	CLASSROOMS
OCCUPANCY GROUP	E
NUMBER OF STORIES	ONE
BUILDING HEIGHT	+ 13'-11"
ALLOWABLE FLOOR AREA	9,500 S.F
ACTUAL FLOOR AREA	6,821 S.F
TYPE OF CONSTRUCTION	V-B

BUILDING B

BUILDING USE	CLASSROOMS
OCCUPANCY GROUP	E
NUMBER OF STORIES	ONE
BUILDING HEIGHT	+ 13'-11"
ALLOWABLE FLOOR AREA	9,500 S.F
ACTUAL FLOOR AREA	6,921 S.F
TYPE OF CONSTRUCTION	V-B

BUILDING C

BUILDING USE	CLASSROOMS
OCCUPANCY GROUP	E
NUMBER OF STORIES	ONE
BUILDING HEIGHT	+ 17'-6"
ALLOWABLE FLOOR AREA	9,500 S.F
ACTUAL FLOOR AREA	9,209 S.F
TYPE OF CONSTRUCTION	V-B

BUILDING D

BUILDING USE	CLASSROOMS
OCCUPANCY GROUP	E
NUMBER OF STORIES	ONE
BUILDING HEIGHT	+ 13'-11"
ALLOWABLE FLOOR AREA	9,500 S.F
ACTUAL FLOOR AREA	6,723 S.F
TYPE OF CONSTRUCTION	V-B

BUILDING E

BUILDING USE	CLASSROOMS
OCCUPANCY GROUP	E
NUMBER OF STORIES	ONE
BUILDING HEIGHT	+ 13'-11"
ALLOWABLE FLOOR AREA	9,500 S.F
ACTUAL FLOOR AREA	6,829 S.F
TYPE OF CONSTRUCTION	V-B

BUILDING F

BUILDING USE	MULTI-PURPOSE
OCCUPANCY GROUP	A-2
NUMBER OF STORIES	ONE
BUILDING HEIGHT	+ 19'-9"
ALLOWABLE FLOOR AREA	13,500 S.F
ACTUAL FLOOR AREA	6,203 S.F
TYPE OF CONSTRUCTION	V-B

KEY NOTES

1. EXISTING TURF
2. EXISTING AC PAVING
3. EXISTING CONCRETE SIDEWALK
4. EXISTING CHAIN-LINK FENCE.
5. EXISTING SEA TRAIN TO BE REMOVED AND RELOCATED BY THE DISTRICT.
6. EXISTING MECHANICAL ENCLOSURE TO BE REMOVED AS PER DEMOLITION PLAN ON SHEET A2.11. PREPARE THE SUBGRADE AS PER SPEC'S. SECTIONS 31000 AND 312000. ASPHALT PAVE AREA FLASH WITH SURROUNDING ADJACENT PAVING.

GENERAL NOTES

ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

SUBSTITUTIONS OF PRODUCTS AND PROCESSES WHICH AFFECT THE STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, AND ACCESSIBILITY OF THIS PROJECT SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD, AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

CAL. ENERGY CODE

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TESTS TECHNICIAN (ATT).

MECHANICAL CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS - AND - TOPICS/PROGRAMS/ACCEPTANCE - TEST - TECHNICIAN - CERTIFICATION - PROVIDER - PROGRAMS/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

LEGEND

BUILDINGS THAT ARE PART OF THE SCOPE OF WORK FOR THIS HVAC MODERNIZATION

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

**ARCHITECTURE
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INTERIOR DESIGN**

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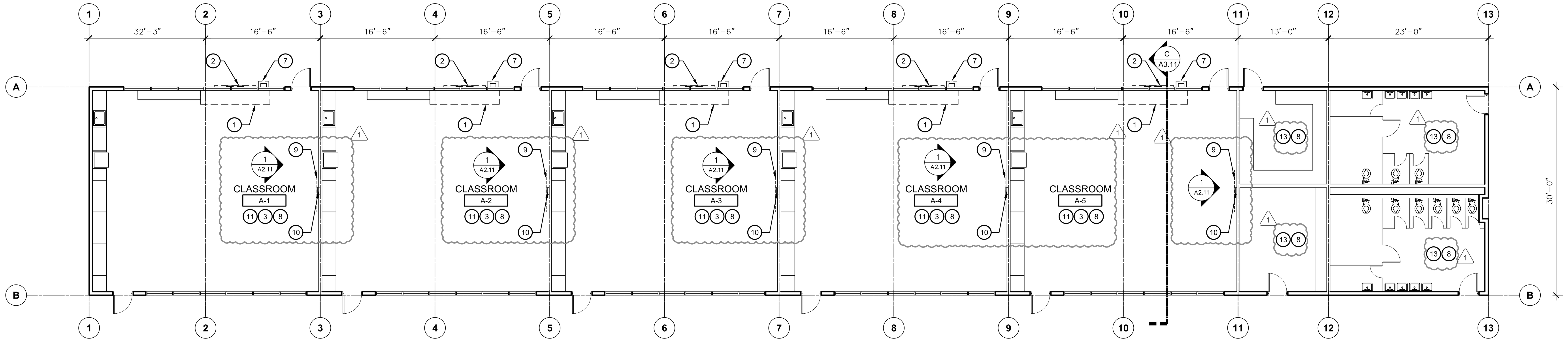
Sheet Title: **SITE PLAN**

Job No.: **5526**

Sheet No.: **A1.00**

Release: Addendum 2 1 9/9/2022

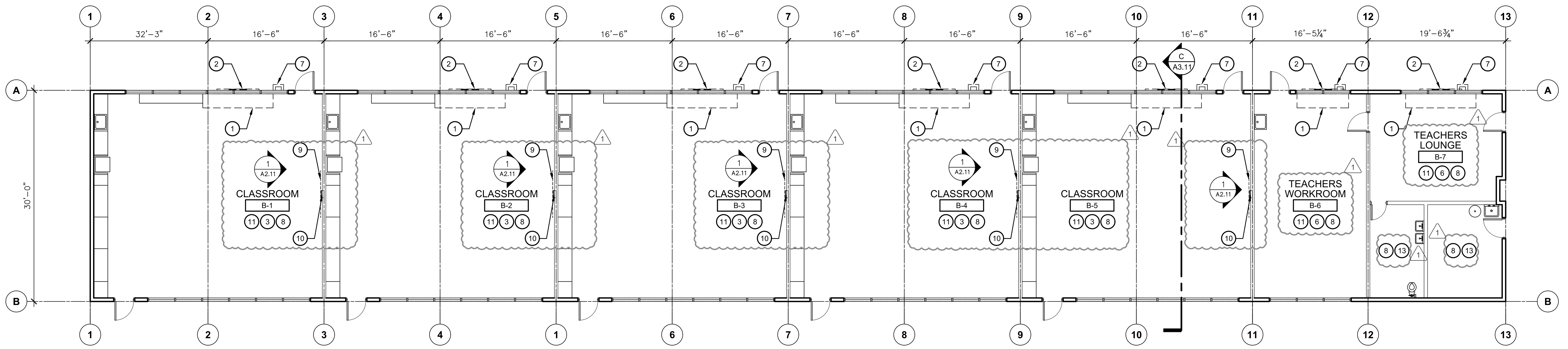
G:\2022frs\22-5526 BCSD Wayside ES\Sheets\5526-A1.00 SITE PLAN.dwg FRANK AYALA 5/2/24



DEMOLITION FLOOR PLANS - BUILDING A

HVAC REPLACEMENT

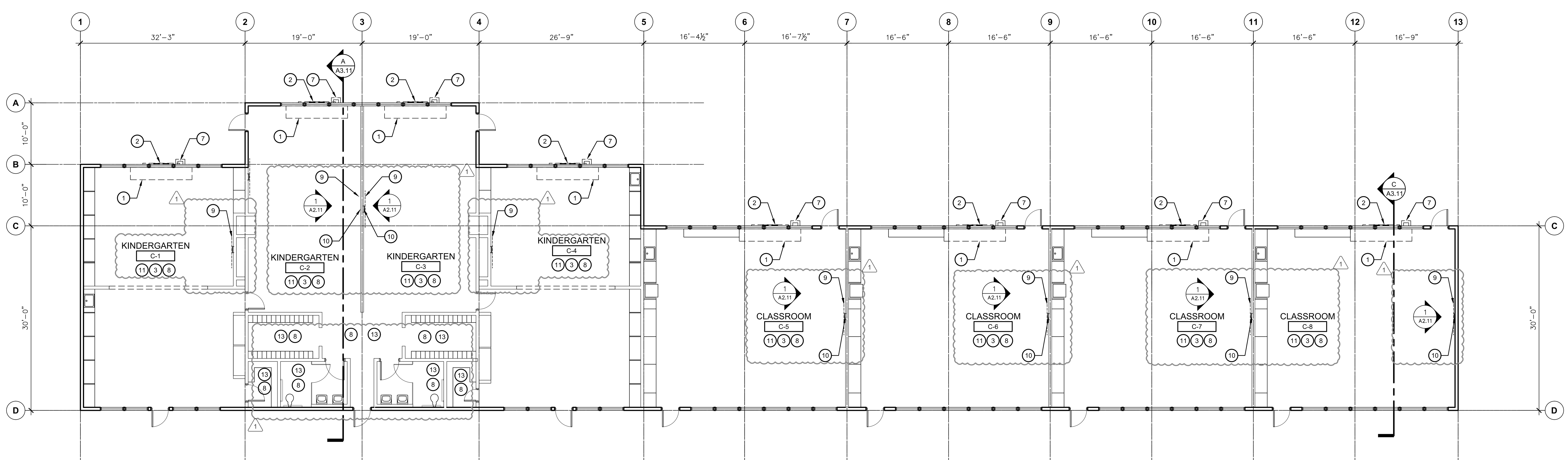
SCALE: 1/8" = 1'-0"



DEMOLITION FLOOR PLANS - BUILDING B

HVAC REPLACEMENT

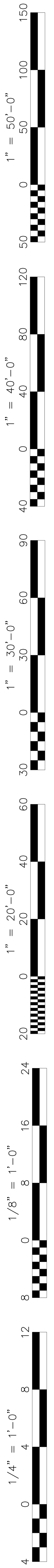
SCALE: 1/8" = 1'-0"



DEMOLITION FLOOR PLANS - BUILDING C

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR & ALL RELATED COMPONENTS, CONTROLS, ETC. COORDINATE WITH MECHANICAL DRAWINGS, TYP.
2. REMOVE EXISTING OUTSIDE AIR LOUVER & DUCT THRU WALL.
3. REMOVE (E) CARPET, VAT FLOORING & MASTIC.
4. NOT USED.
5. NOT USED.
6. REMOVE (E) VAT FLOORING & MASTIC.
7. REMOVE EXISTING SHEET METAL PIPE COVER, CONCRETE PAD AND UTILITIES PIPES. CAP AND ABANDON REMAINING PIPES UNDERGROUND- SEE DETAIL 3/A3.12
8. SEE SHEET A6.10 FOR REFLECTED CEILING DEMOLITION WORK AND A6.20 FOR REFLECTED CEILING PLAN IMPROVEMENTS.
9. REMOVE (E) SMARTBOARD & PROJECTOR AND SALVAGE FOR RELOCATION.
10. REMOVE PORTION OF (E) TACKBOARD, DRYWALL AND SHEATHING AS REQUIRED TO INSTALL NEW ELECTRICAL WORK. SEE ELEVATION 2/EO.O1. REPLACE SMOOTH PLASTER AND SHEATHING TO MATCH (E) ADJACENT THICKNESS.
11. REMOVE (E) WALL BASE- SEE 1/A2.11.
12. REMOVE (E) MARKER BOARD AND SALVAGE FOR RELOCATION- SEE INTERIOR ELEVATION 1/A2.11.
13. (E) HARD CEILING TO REMAIN.

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STATE OF CALIFORNIA

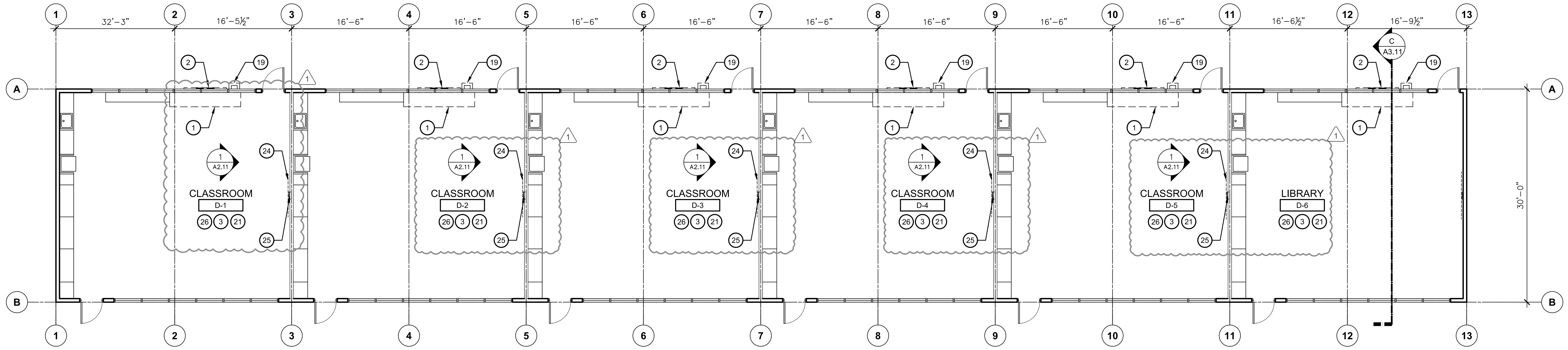
Sheet Title:

DEMOLITION FLOOR PLANS

Job No.: **5526**

Sheet No.: **A2.10**

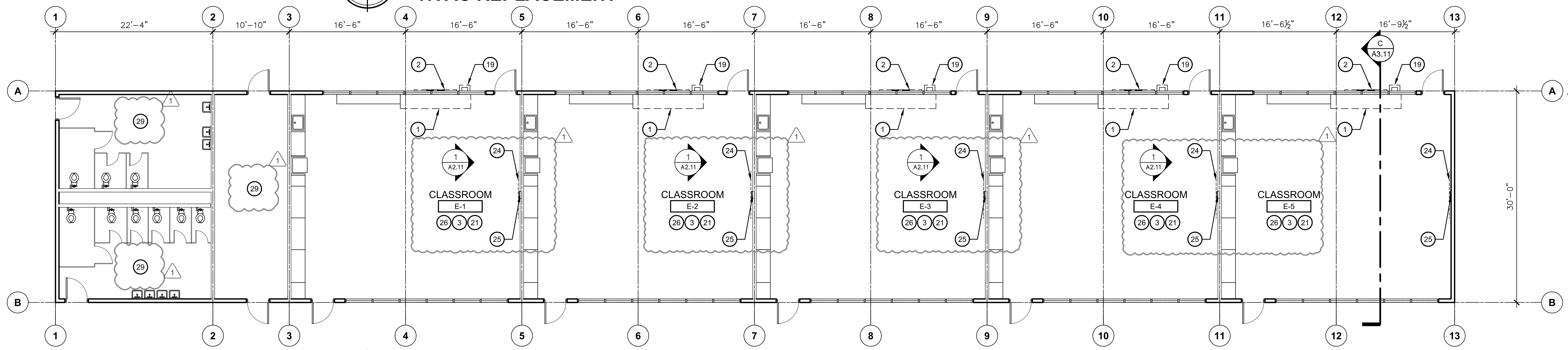
Release: Addendum 2 1 9/9/2022



DEMOLITION FLOOR PLANS - BUILDING D

HVAC REPLACEMENT

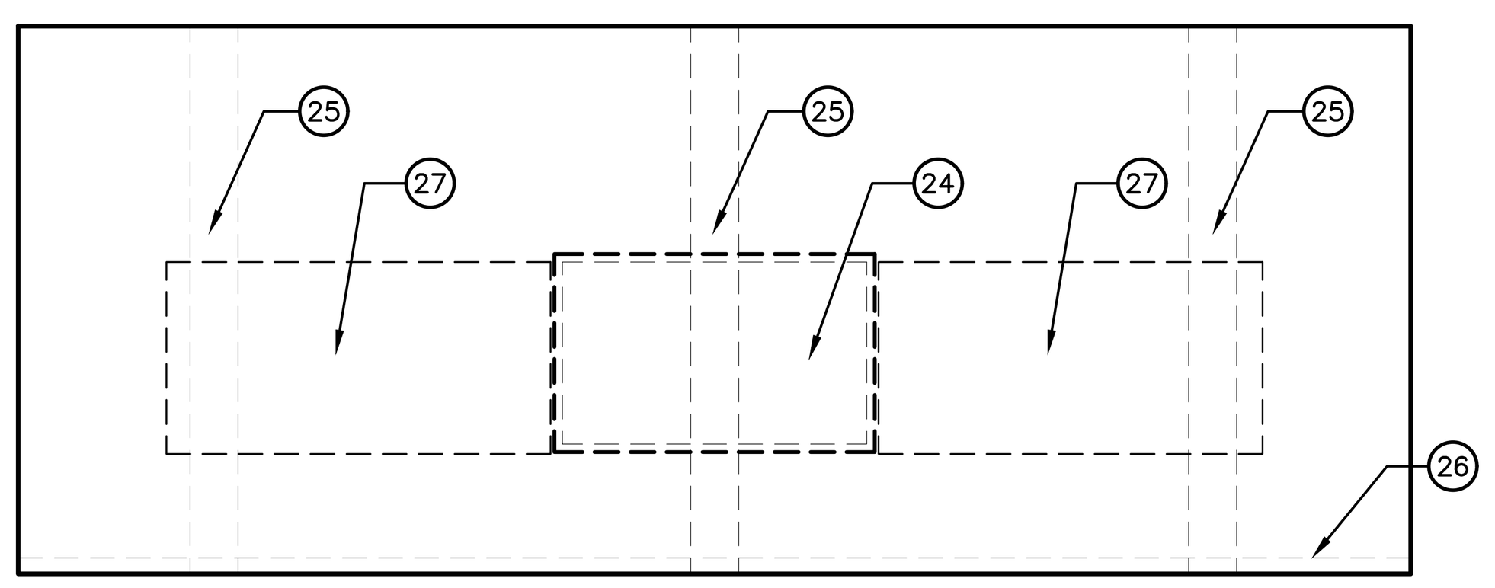
SCALE: 1/8" = 1'-0"



DEMOLITION FLOOR PLANS - BUILDING E

HVAC REPLACEMENT

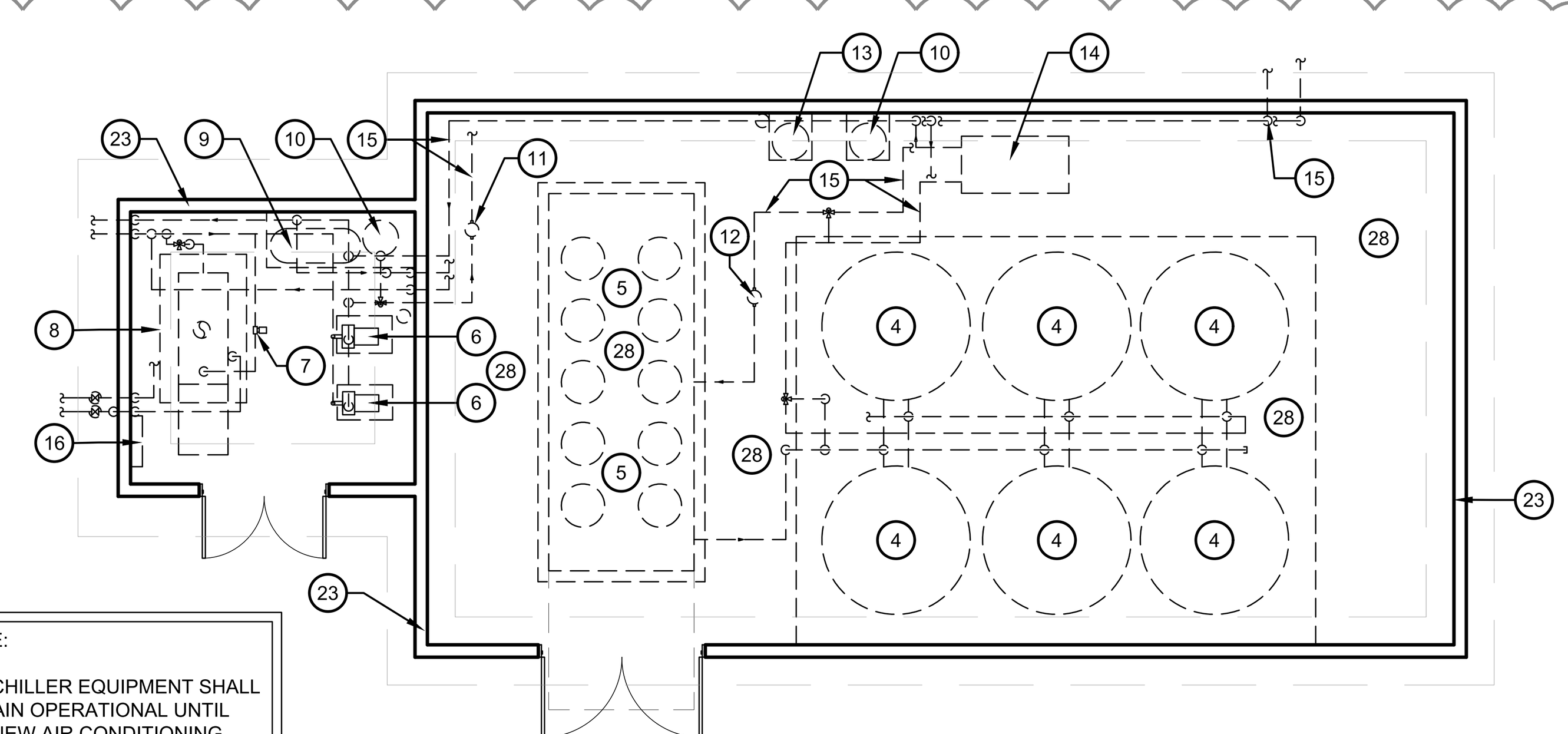
SCALE: 1/8" = 1'-0"



1 A2.11 TEACHING WALL ELEVATION

ALL CLASSROOMS, U.N.O.

SCALE: 1/4" = 1'-0"



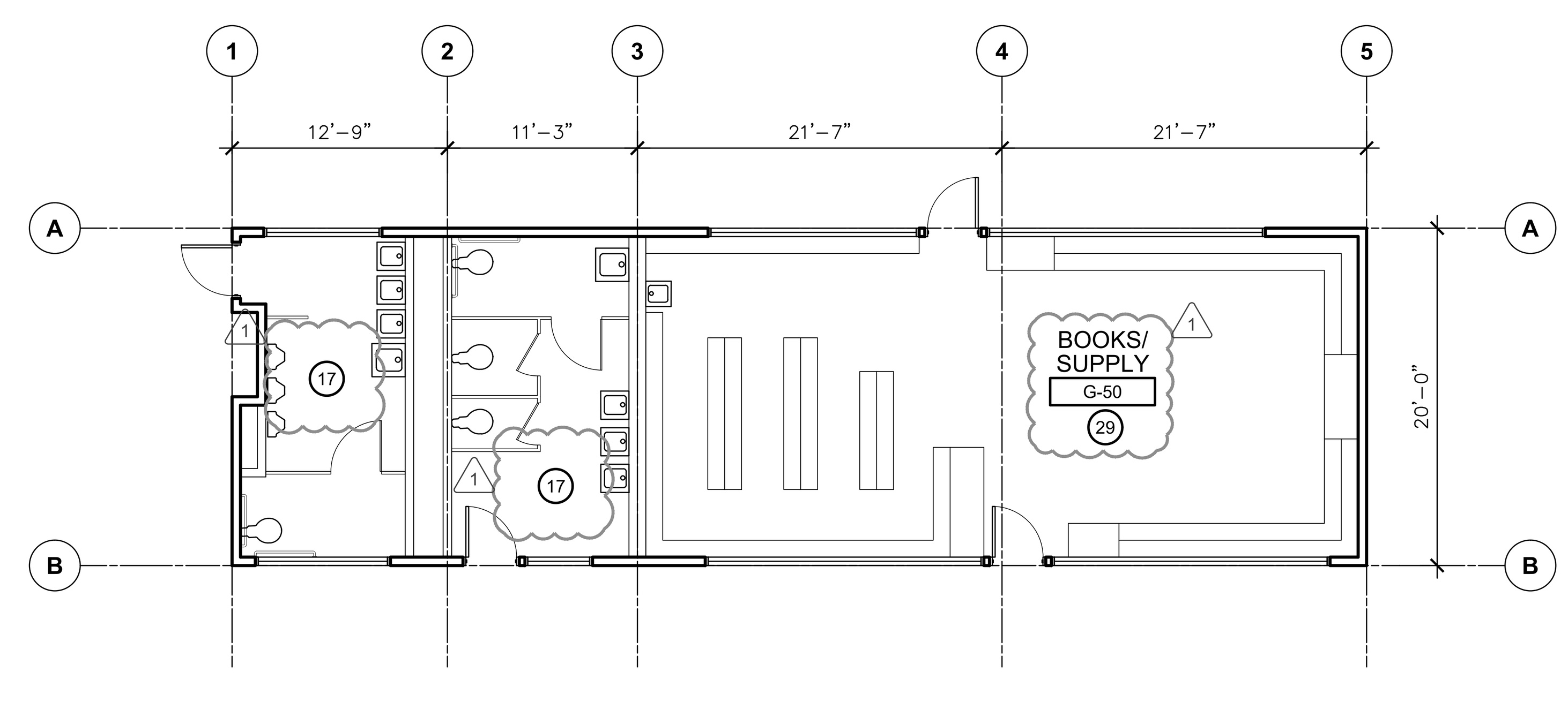
NOTE:

ALL CHILLER EQUIPMENT SHALL REMAIN OPERATIONAL UNTIL ALL NEW AIR CONDITIONING EQUIPMENT HAS BEEN INSTALLED, APPROVED AND FULLY OPERABLE.

DEMO FLOOR PLAN - CHILLER YARD

HVAC REPLACEMENT

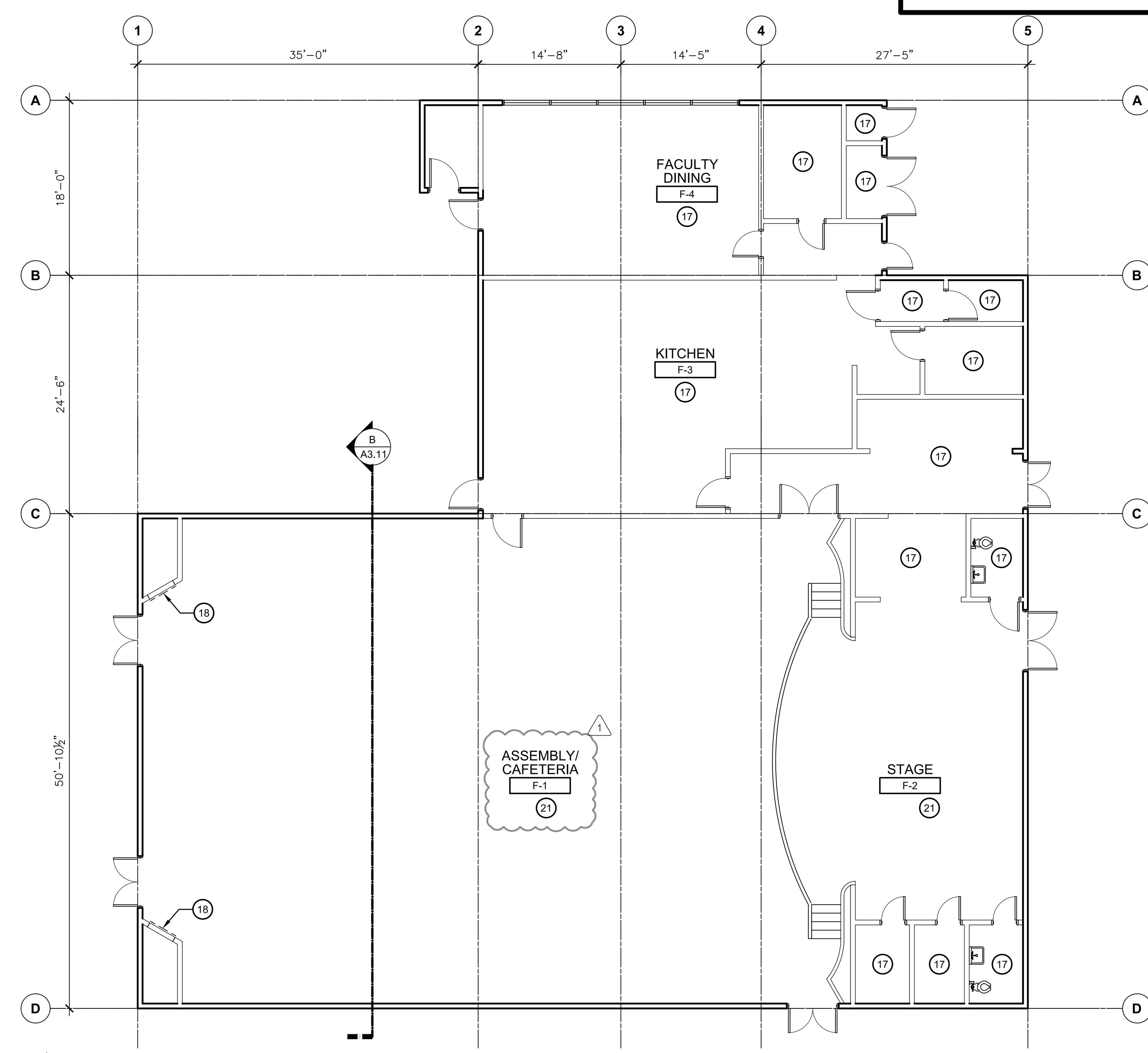
SCALE: 1/8" = 1'-0"



DEMOLITION FLOOR PLANS - BUILDING G

HVAC REPLACEMENT

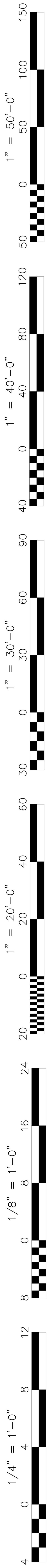
SCALE: 1/8" = 1'-0"



DEMOLITION FLOOR PLANS - BUILDING F

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR & ALL RELATED COMPONENTS, CONTROLS, ETC. COORDINATE WITH MECHANICAL DRAWINGS, TYP.
2. REMOVE EXISTING OUTSIDE AIR LOUVER & DUCT THRU WALL.
3. REMOVE (E) CARPET, VAT FLOORING & MASTIC.
4. REMOVE ICE STORAGE TANK.
5. REMOVE BRINE CHILLER.
6. REMOVE MAIN CIRCULATING PUMP.
7. REMOVE BOILER PUMP.
8. REMOVE HOT WATER BOILER.
9. REMOVE CONTROL AIR COMPRESSOR.
10. REMOVE AMTROL AX-180V EXPANSION TANK.
11. REMOVE CHILLED WATER PUMP.
12. REMOVE BRINE PUMP.
13. REMOVE BRINE FEED TANK.
14. REMOVE HEAT EXCHANGE.
15. REMOVE (E) PIPING & SUPPORT.
16. REMOVE TEMPERATURE CONTROL PANEL.
17. NO WORK IN THIS ROOM.
18. REMOVE (E) RETURN AIR GRILL.
19. REMOVE EXISTING SHEET METAL PIPE COVER, CONCRETE PAD AND UTILITIES PIPES. CAP AND ABANDON REMAINING PIPES UNDERGROUND- SEE DETAIL 3/A3.12.
20. NOT USED.
21. SEE SHEET A6.11 FOR REFLECTED CEILING DEMOLITION WORK AND A6.21 FOR RCP IMPROVEMENTS.
22. REMOVE (E) UNIT HEATER AND ALL RELATED COMPONENTS, PIPING, FLUE EXHAUST, CONTROLS, ETC. AND PATCH UP & PAINT AFFECTED AREA - SEE MECHANICAL SHEET M2.71 FOR ADDITIONAL INFORMATION.
23. (E) CMU WALLS, INCLUDING CONCRETE FOUNDATION, METAL DECK ROOF AND POSTS w/ BOBWIRE ON TOP OF CMU WALL TO REMAIN. COORDINATE DEMOLITION WITH REMOVAL OF CHILLER EQUIPMENT TIME FRAME.
24. REMOVE (E) SMARTBOARD & PROJECTOR AND SALVAGE FOR RELOCATION.
25. REMOVE PORTION OF (E) TACKBOARD, SMOOTH PLASTER AND SHEATHING AS REQUIRED TO INSTALL NEW ELECTRICAL WORK. SEE ELEVATION 2/EO.O1. REPLACE DRYWALL AND SHEATHING TO MATCH (E) ADJACENT THICKNESS. SEE ELEVATION 1/A2.20.
26. REMOVE (E) WALL BASE- SEE 1/A2.11.
27. REMOVE (E) MARKER BOARD AND SALVAGE FOR RELOCATION.
28. REMOVE EXISTING CONCRETE SLAB & HOUSEKEEPING PADS AND PREPARE AREA FOR NEW REINFORCED CONCRETE SLAB.
29. (E) HARD CEILING TO REMAIN.

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Sheet Title:

DEMOLITION FLOOR PLANS

Job No.: **5526**

Sheet No.: **A2.11**

Addendum 2 (1) 9/9/2022

Release: FRANK AYALA 5/2/24

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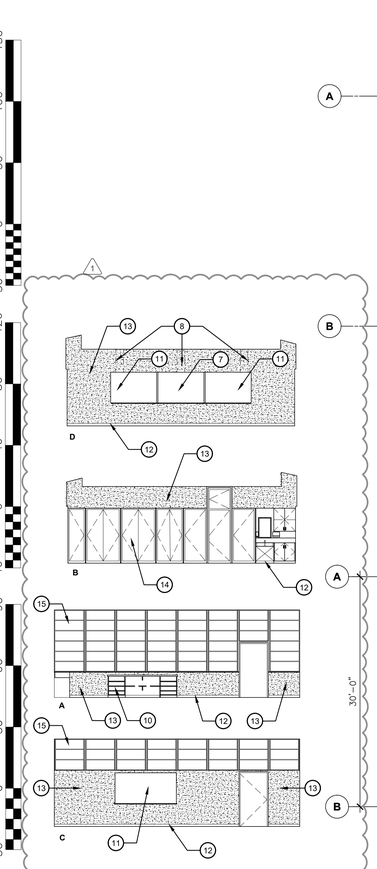
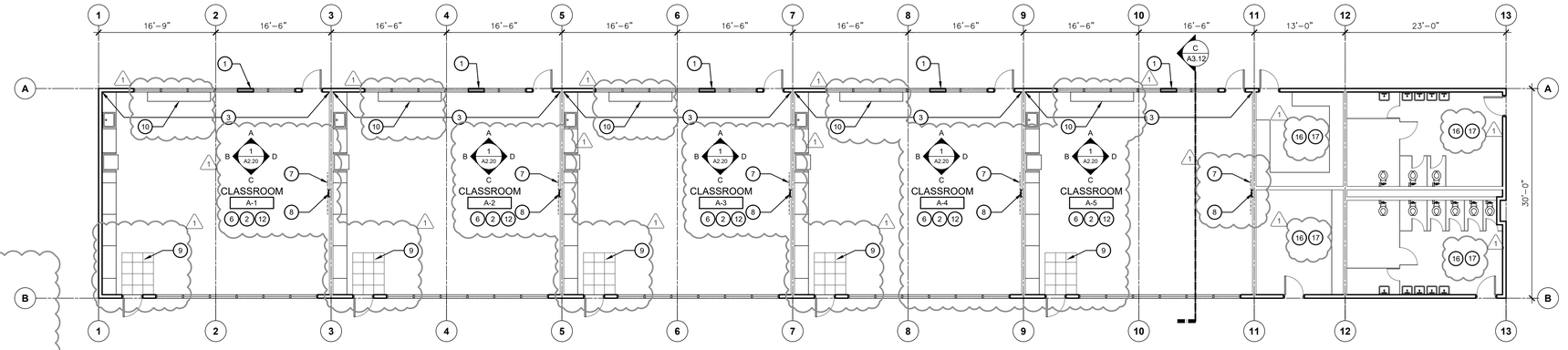


1 A2.20 **CLASSROOM INTERIOR ELEVATIONS**

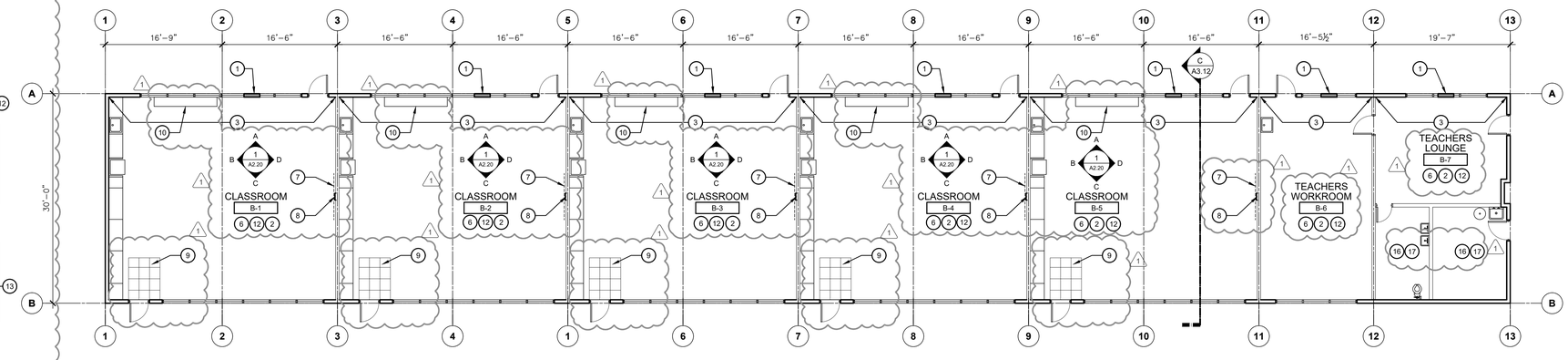
SCALE: 1/8" = 1'-0"



FLOOR PLAN - BUILDING A

HVAC REPLACEMENT

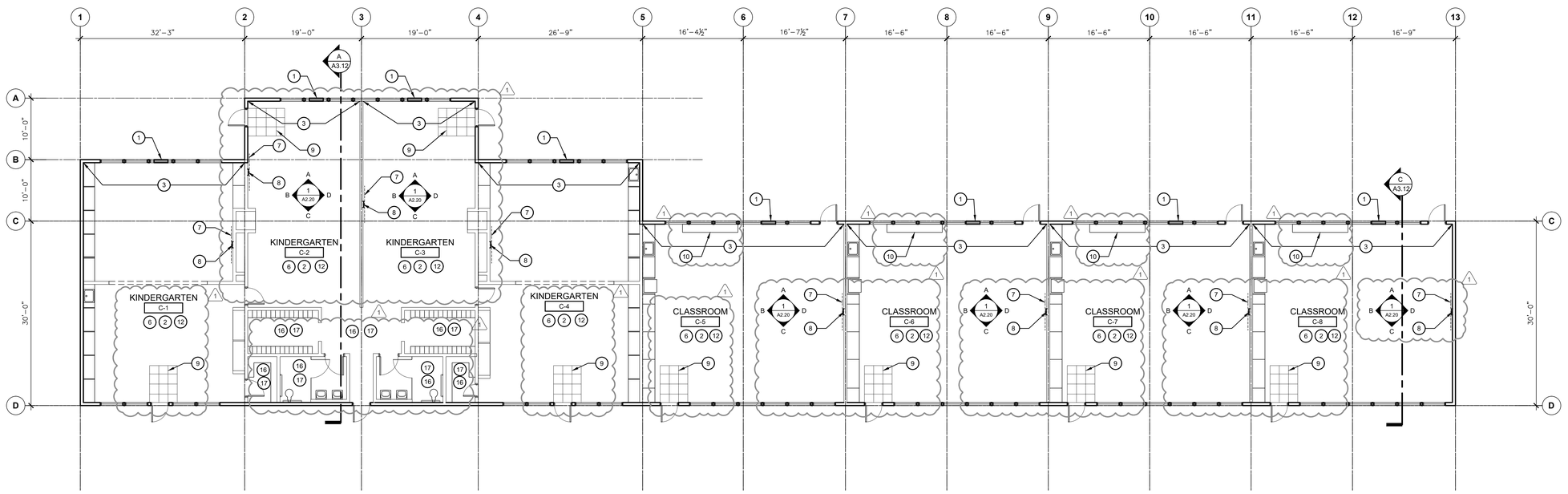
SCALE: 1/8" = 1'-0"



FLOOR PLAN - BUILDING B

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



FLOOR PLAN - BUILDING C

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

KEY NOTES

1. INFILL OPENING WITH WOOD STUDS, CEMENT PLASTER TO MATCH EXISTING ADJACENT COLOR AND TEXTURE ON THE OUTSIDE AND SMOOTH PLASTER TO MATCH EXISTING ADJACENT THICKNESS, COLOR, AND TEXTURE ON THE INSIDE. PROVIDE R-19 BATT INSULATION. SEE 2/A3.12.
2. PROVIDE NEW CARPET (C-2) AS PER SPECIFICATIONS SECTIONS 096813 - COLOR TO BE SELECTED BY OWNER.
3. PAINT WALL, WINDOW FRAME, COLUMN, DOOR FRAME AND DOOR - COLOR TO BE SELECTED BY OWNER.
4. NOT USED.
5. NOT USED.
6. SEE SHEET A6.10 FOR REFLECTED CEILING DEMOLITION AND A6.20 FOR RCP FOR NEW IMPROVEMENTS.
7. CONTRACTOR TO REINSTALL (E) SALVAGED SMARTBOARD AND PROJECTOR.
8. PATCH SMOOTH PLASTER AND SHEATHING TO MATCH (E) ADJACENT THICKNESS UNDER (N) TACKBOARD.
9. PROVIDE NEW WALK-OFF MAT (C-1) PER SPECIFICATIONS SECTION 096813.
10. (E) BOOKCASE TO BE REMOVED AND SALVAGED AND TO BE PUT BACK IN THE SAME LOCATION.
11. INSTALL (E) SALVAGED MARKER BOARD.
12. INSTALL (N) TOPSET RUBBER WALL BASE.
13. NEW CHATFIELD CLARK CERES FOG TACKBOARD AS INDICATED ON WALL ELEVATIONS ON B/A2.20.
14. (E) TALL CABINETS.
15. (E) EXTERIOR WINDOWS TO REMAIN.
16. PATCH & PAINT AREAS AFFECTED BY (N) HVAC, ELECTRICAL LIGHTING & FARE ALARM. TO MATCH EXISTING ADJACENT SURFACE THICKNESS, TEXTURE & COLOR.
17. (E) HARD CEILING TO REMAIN.

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
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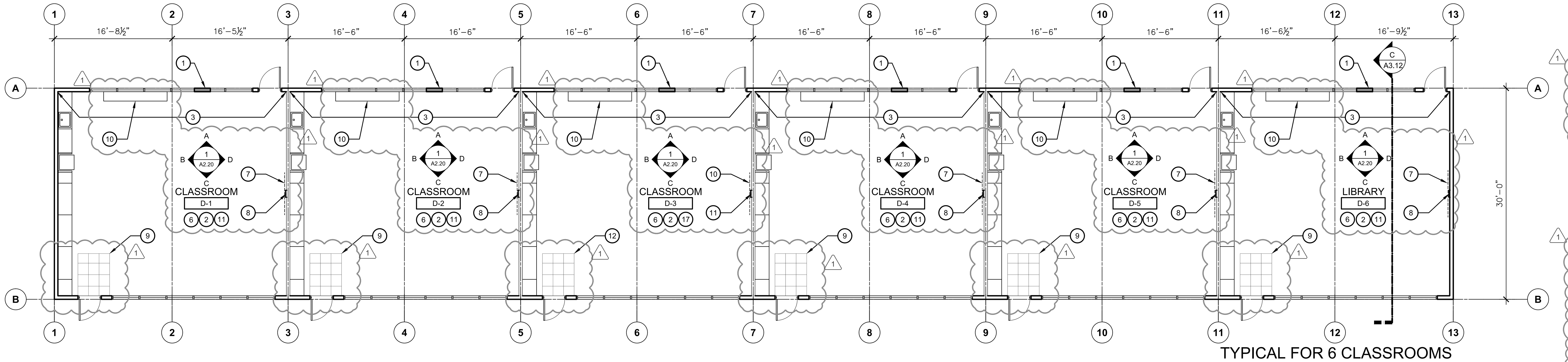
Sheet Title:

FLOOR PLANS

Job No.: **5526**

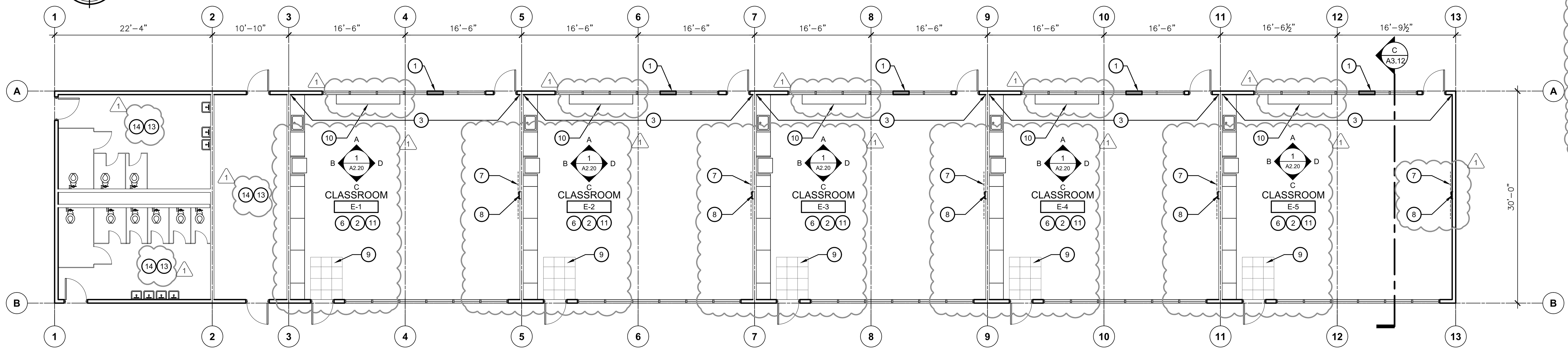
Sheet No.: **A2.20**

Release: Addendum 2 1 9/9/2022



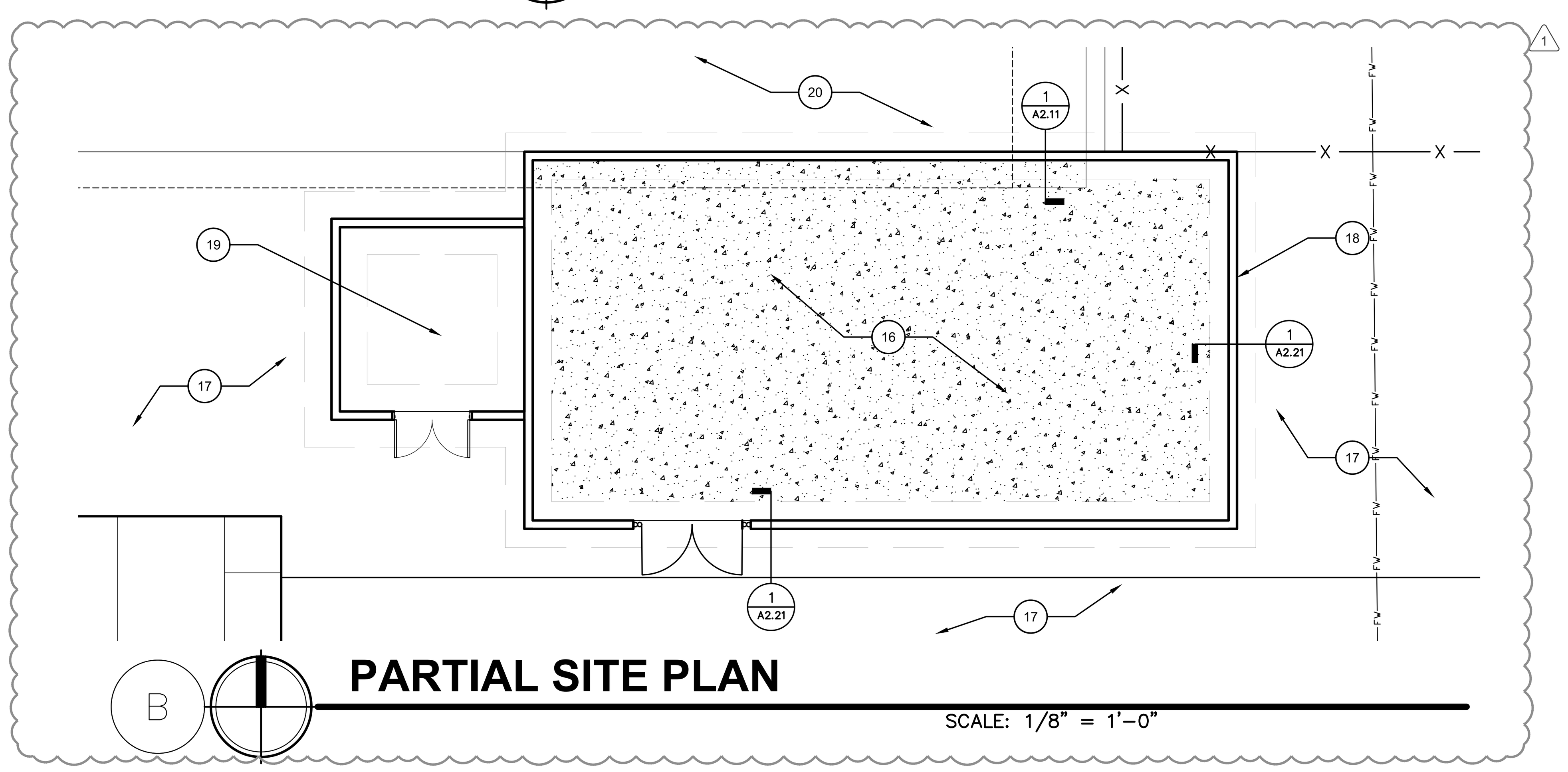
FLOOR PLAN - BUILDING D

SCALE: 1/8" = 1'-0"



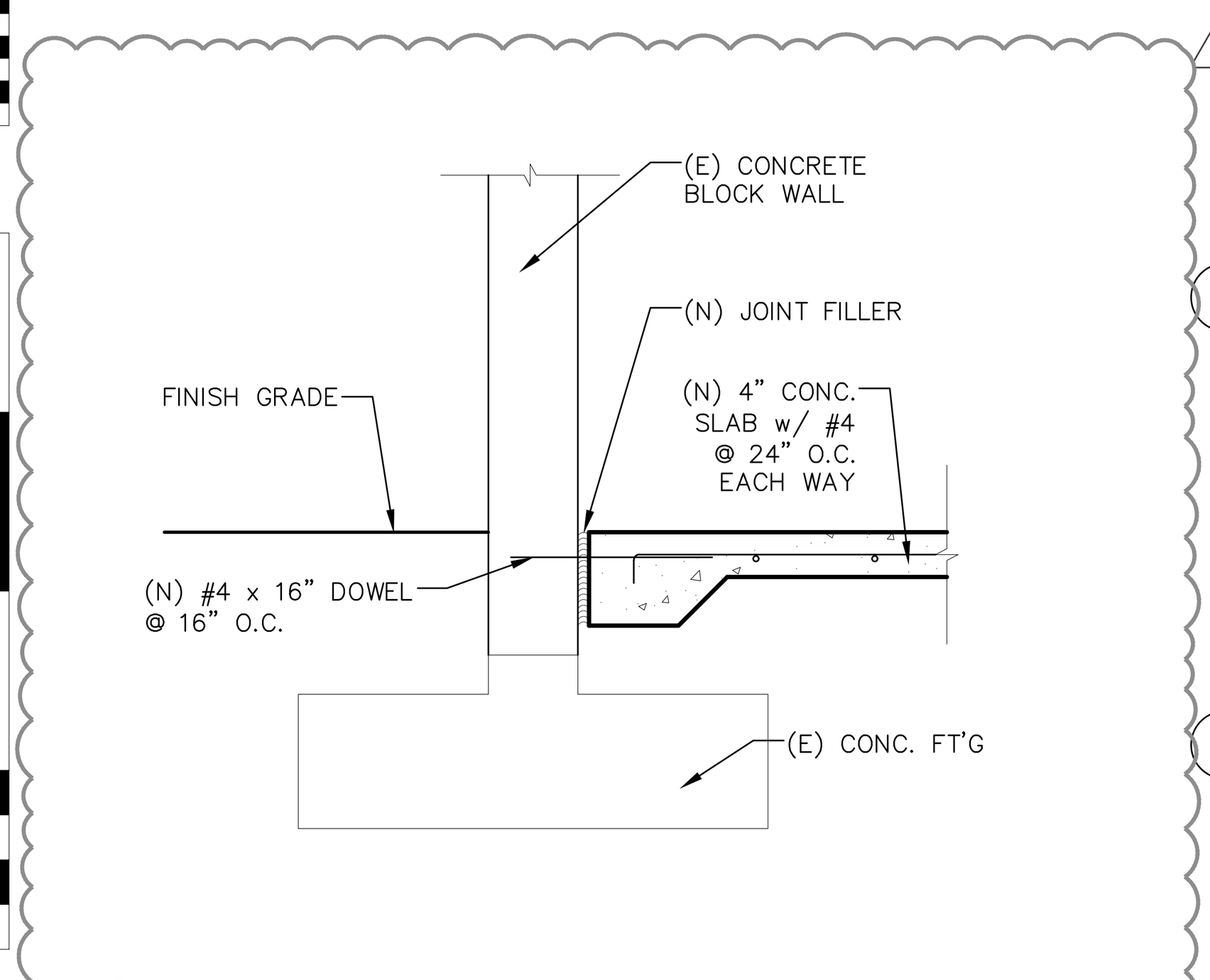
FLOOR PLAN - BUILDING E

SCALE: 1/8" = 1'-0"



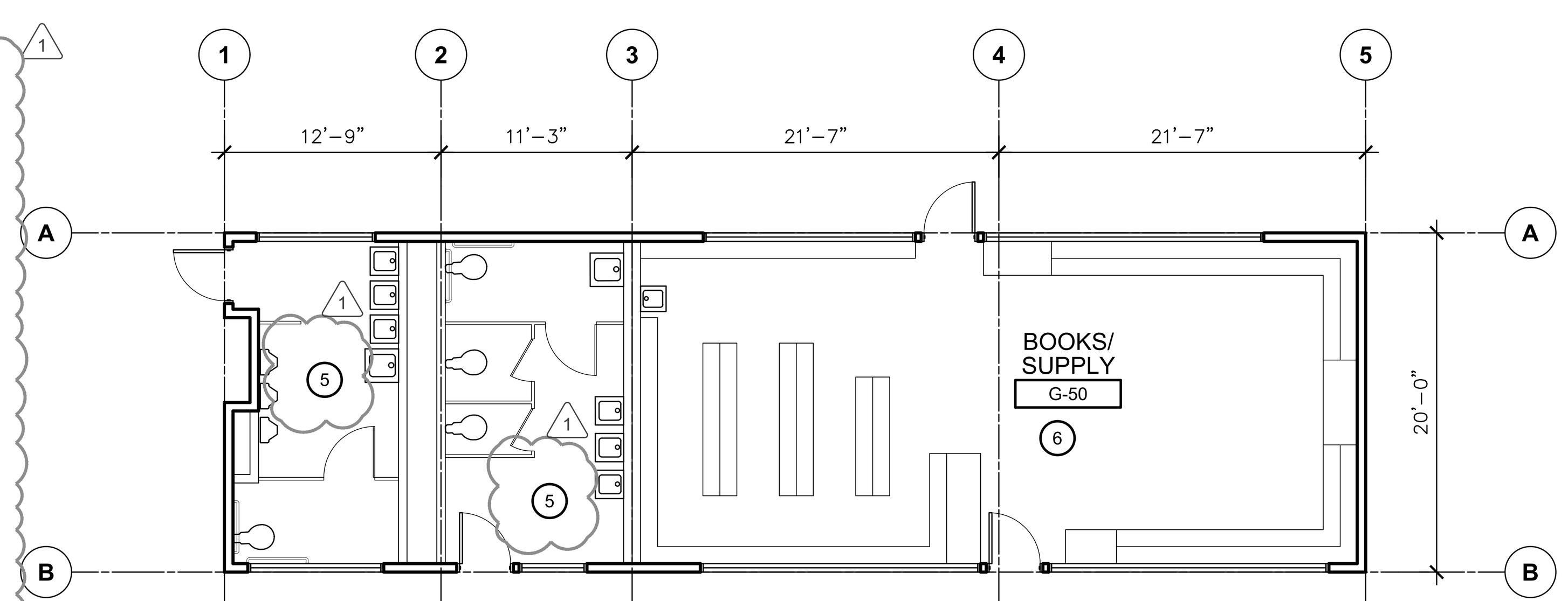
PARTIAL SITE PLAN

SCALE: 1/8" = 1'-0"



1 A2.21 (N) CONC. SLAB TO (E) CMU WALL

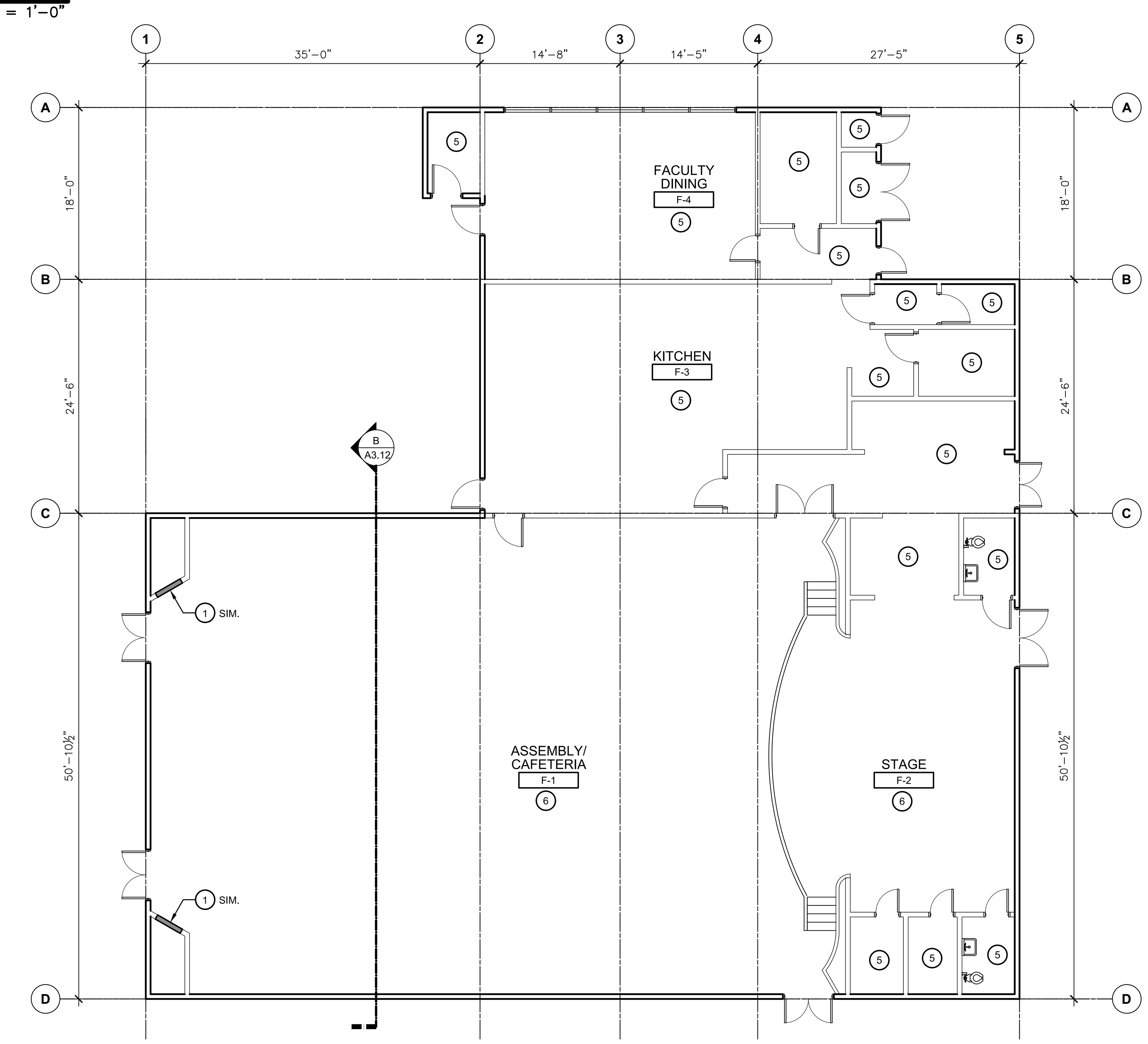
SCALE: 3/4" = 1'-0"



FLOOR PLAN - BUILDING G

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



FLOOR PLAN - BUILDING F

SCALE: 1/8" = 1'-0"

KEY NOTES

1. INFILL OPENING WITH WOOD STUDS, CEMENT PLASTER TO MATCH EXISTING ADJACENT COLOR AND TEXTURE ON THE OUTSIDE AND SMOOTH PLASTER TO MATCH EXISTING ADJACENT THICKNESS, COLOR, AND TEXTURE ON THE INSIDE. PROVIDE R-19 BATT INSULATION. SEE 2/A3.12.
2. PROVIDE NEW CARPET (C-2) AS PER SPECIFICATIONS SECTION 096813 - COLOR TO BE SELECTED BY OWNER.
3. PAINT WALL, WINDOW FRAME, COLUMN, DOOR FRAME AND DOOR - COLOR TO BE SELECTED BY OWNER.
4. NOT USED.
5. NO WORK IN THIS ROOM.
6. SEE SHEET A6.11 FOR REFLECTED CEILING DEMOLITION AND A6.21 FOR RCP FOR NEW IMPROVEMENTS.
7. CONTRACTOR TO REINSTALL (E) SALVAGED SMARTBOARD AND PROJECTOR.
8. PATCH SMOOTH PLASTER AND SHEATHING TO MATCH (E) ADJACENT THICKNESS UNDER (N) TACKBOARD.
9. PROVIDE NEW WALK-OFF MAT (C-1) PER SPECIFICATIONS SECTION 096813.
10. (E) BOOKCASE TO BE REMOVED AND SALVAGED; TO BE PUT BACK IN THE SAME LOCATION.
11. INSTALL (N) TOPSET RUBBER WALL BASE.
12. NEW CHATFIELD CLARK CERES FOG TACKBOARD AS INDICATED ON WALL ELEVATIONS ON B/A2.20.
13. PATCH & PAINT AREAS AFFECTED BY NEW HVAC, ELECTRICAL LIGHTING & FIRE ALARM. TO MATCH EXISTING ADJACENT SURFACE THICKNESS, TEXTURE & COLOR.
14. (E) HARD CEILING TO REMAIN.
15. (N) 4" CONC. SLAB - SEE DETAIL 1/A2.21.
16. (E) ASPHALT PAVEMENT.
17. (E) CMU WALL TO REMAIN.
18. (E) CONC. SLAB TO REMAIN.
19. (E) DOUBLE DOOR .

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FLOOR PLANS

Job No.: 5526

Sheet No.: **A2.21**

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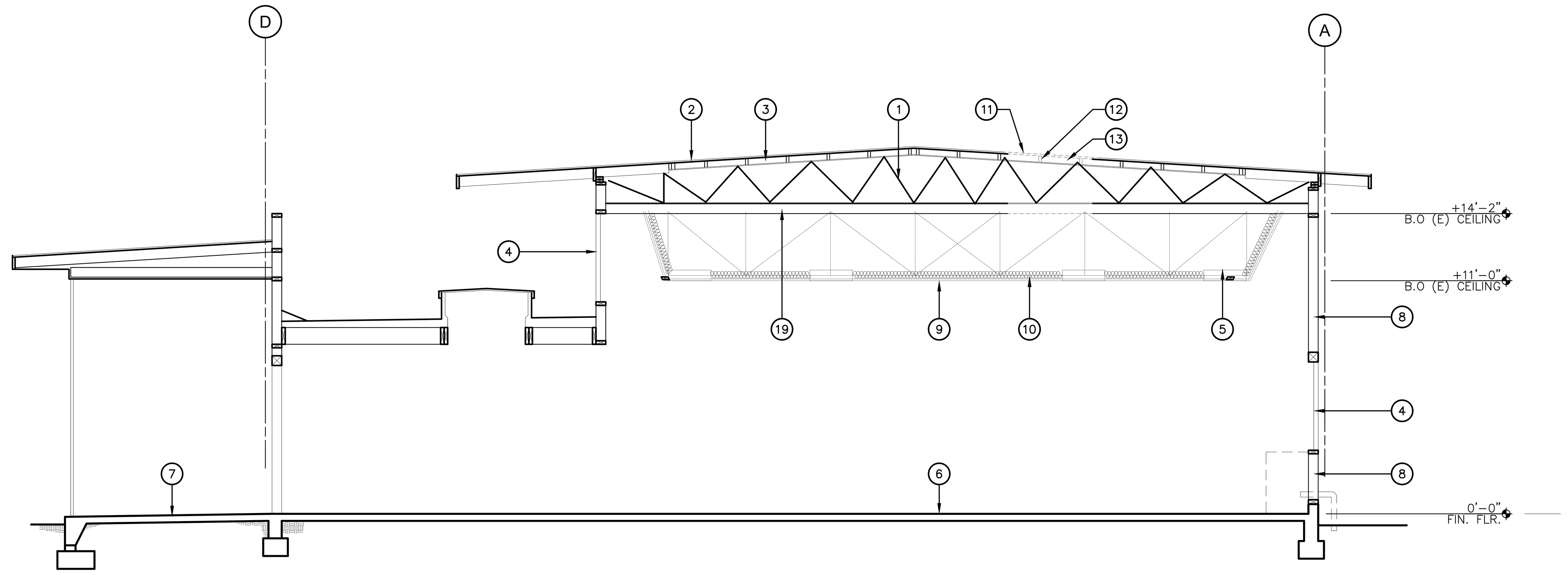
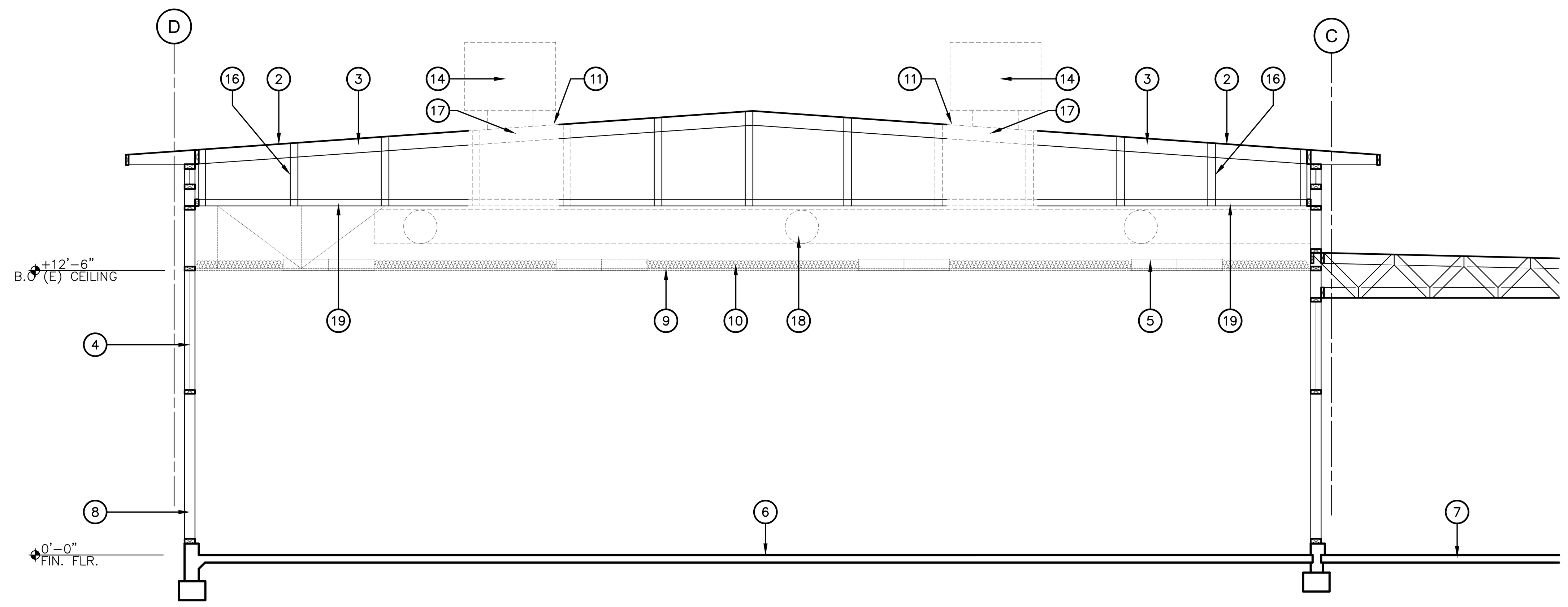
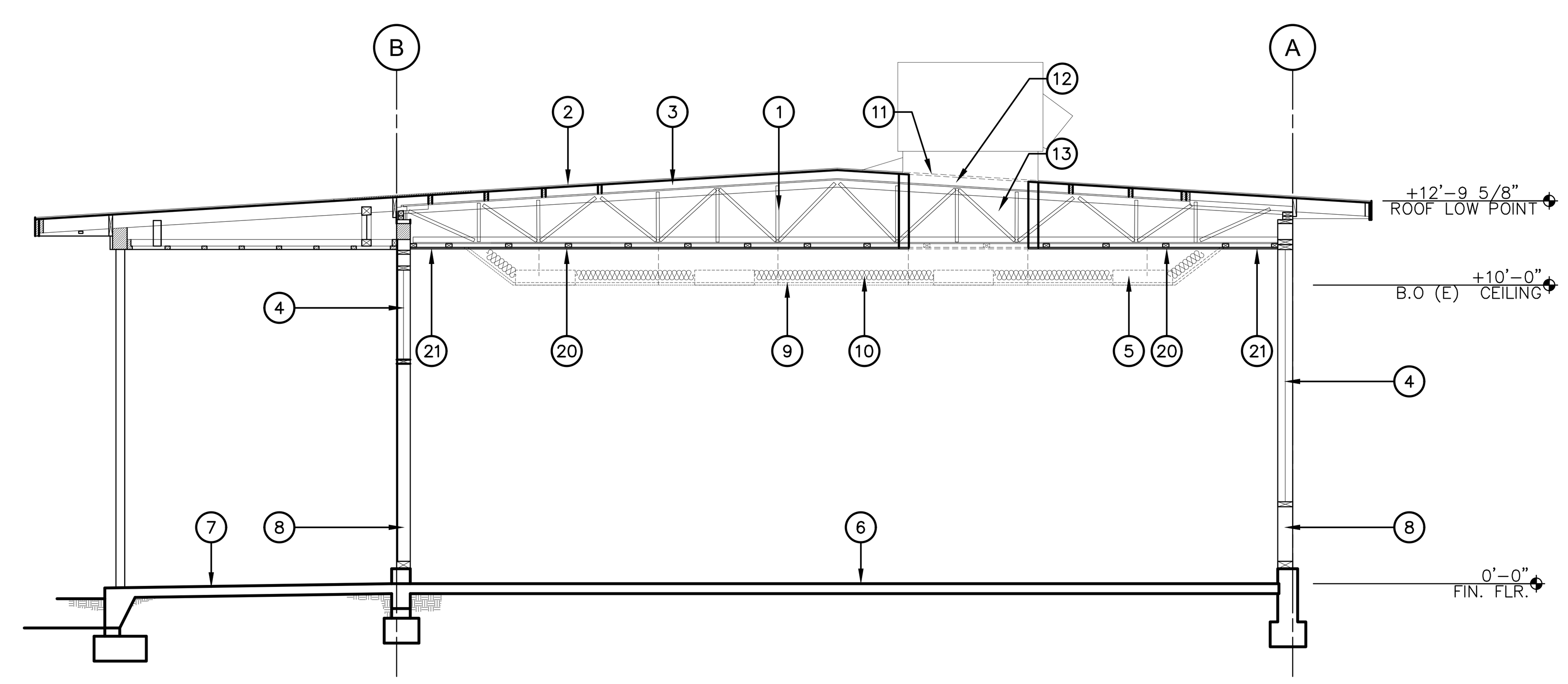


A BUILDINGS C - DEMO
1/4" = 1'-0"



B BUILDINGS F - DEMO
1/4" = 1'-0"



C BUILDINGS A, B, C, D, & E - DEMO
1/4" = 1'-0"

KEY NOTES

1. (E) STEEL JOISTS
2. 1" DIAGONAL SHEATHING
3. 2X4 PURLINS AT 24" o.c.
4. (E) WINDOW
5. (E) LIGHT FIXTURES TO BE REMOVED
6. (E) CONCRETE SLAB
7. (E) CONCRETE WALK
8. (E) STUD WALL
9. REMOVE (E) SUSPENDED T-BAR CEILING AND APPURTENANCES
10. REMOVE (E) BATT INSULATION
11. REMOVE PORTION OF (E) 1" DIAGONAL SHEATHING OR PLYWOOD ROOF DECKING AS REQUIRED TO INSTALL NEW A/C UNIT AND RELATED DUCTS. SEE STRUCTURAL SHEET S2.1
12. REMOVE PORTION OF (E) 2X PURLINS AS REQUIRED TO INSTALL NEW AIR DUCTS - SEE STRUCTURAL DETAILS ON SHEET S2.1
13. REMOVE PORTION OF STEEL JOIST IF REQUIRED TO INSTALL NEW AIR DUCTS - SEE STRUCTURAL DETAILS ON SHEET S2.1
14. REMOVE (E) ROOF MOUNTED A/C UNIT
15. (E) 2X10 ROOF RAFTERS AT 24" o.c.
16. (E) 1X4 HANGER
17. REMOVE PORTION OF (E) 2X10 ROOF RAFTER AS REQUIRED TO INSTALL NEW A/C UNIT AND AIR DUCTS - SEE STRUCTURAL DETAILS ON SHEET S2.1
18. REMOVE (E) DUCTWORK
19. (E) 2X4 CEILING JOISTS TO REMAIN.
20. REMOVE (E) 12"x12" ACOUSTIC TILE CEILING INCLUDING 2x PURLINS AND 1x3 STRIPPING WHERE NEW SUSPENDED CEILING OCCURS.
21. REMOVE (E) 12"x12 ACOUSTICAL TILES AND REPLACE WITH (N) DRYWALL AS PER DETAIL 7/A8.01.

Owner:

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SECTIONS - DEMO

Job No.: **5526**

Sheet No.: **A3.11**

Release: Addendum 2 1 9/9/2022

G:\2022frs\22-5526 BCSD Wayside ES\Sheets\5526-A3.11 SECTIONS - DEMO.dwg FRANK AYALA 5/2/24

1" = 50'-0" (150, 100, 50, 0, 50)

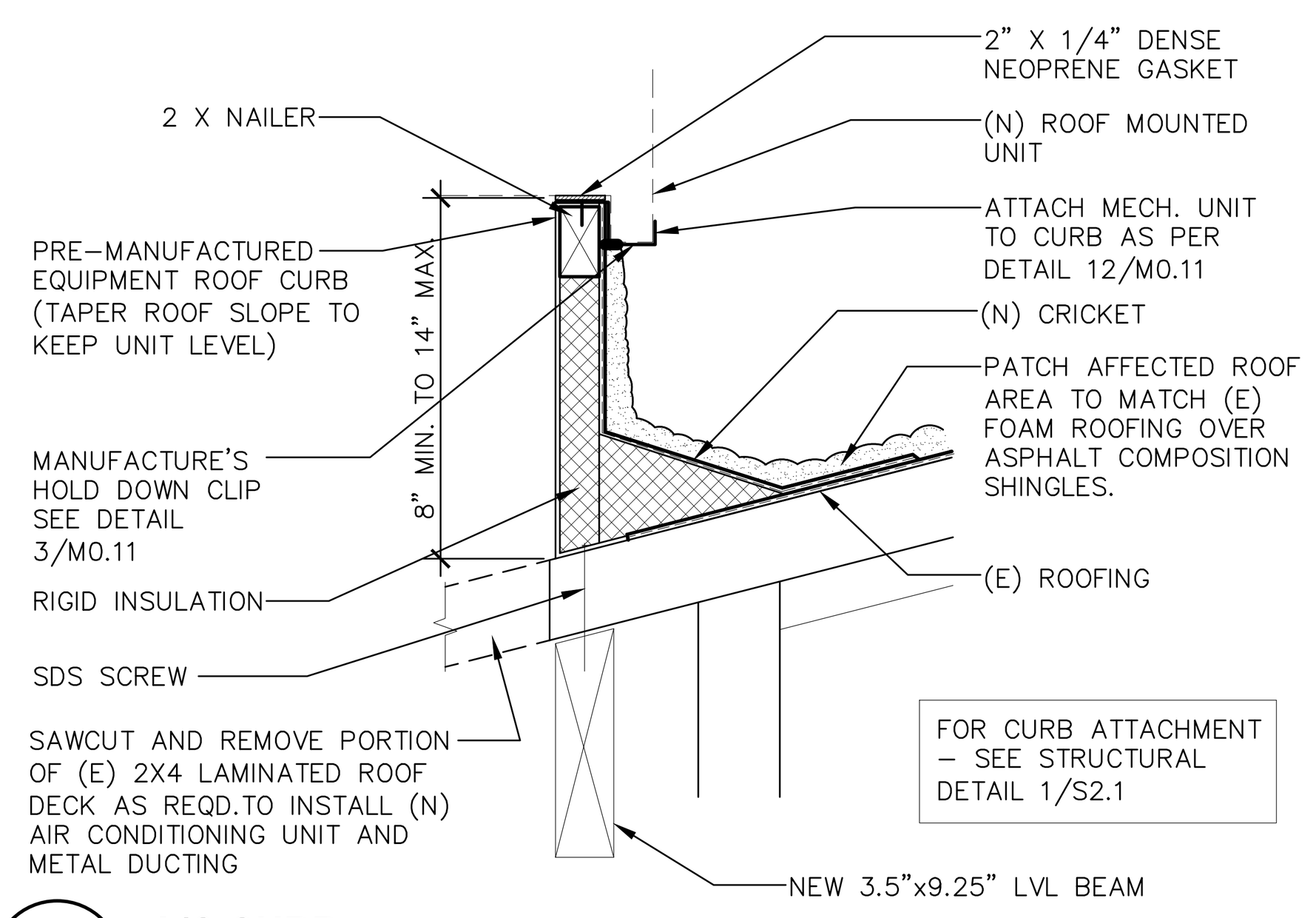
1" = 40'-0" (120, 80, 40, 0, 40)

1" = 30'-0" (90, 60, 30, 0, 30)

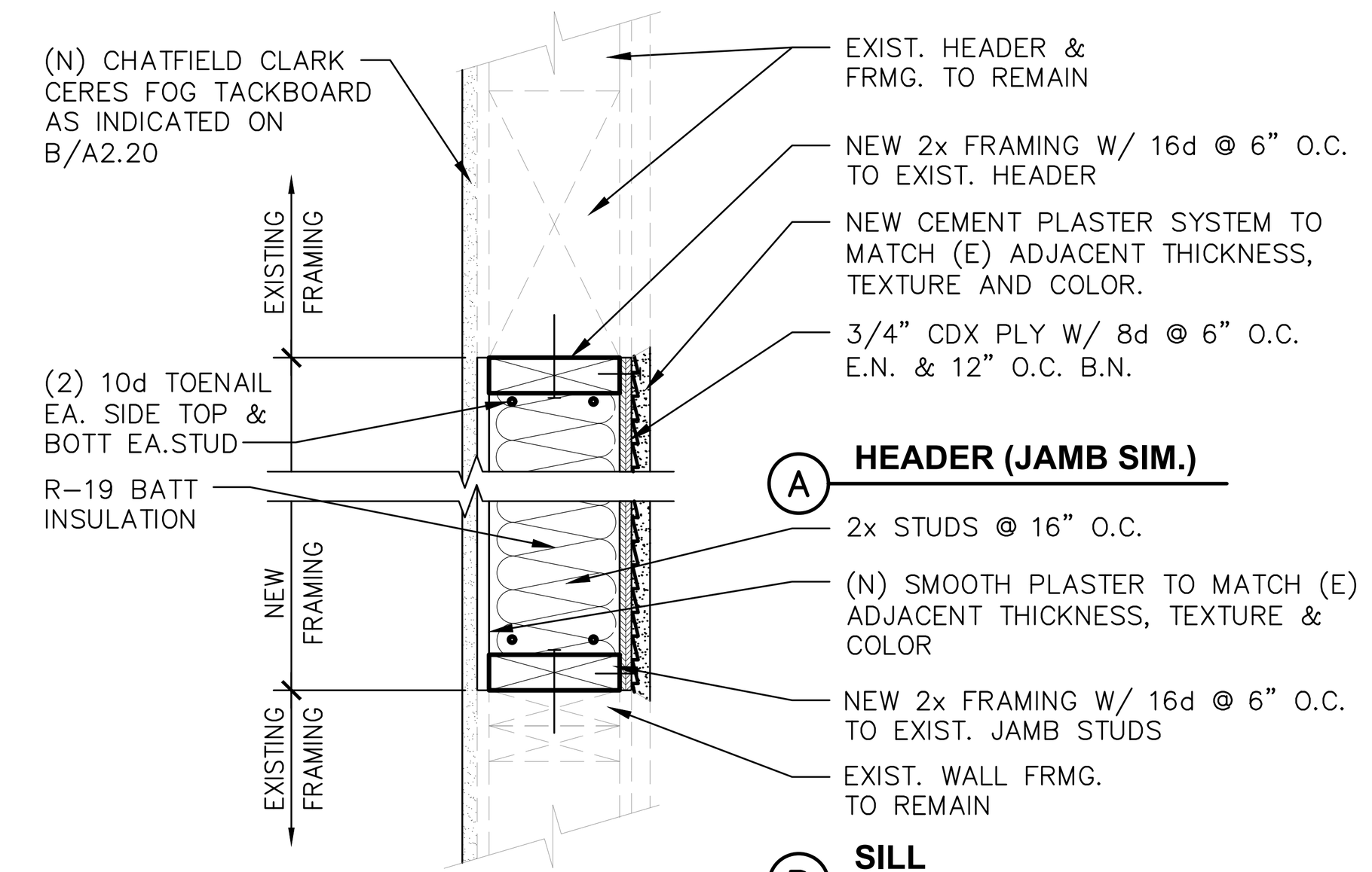
1" = 20'-0" (60, 40, 20, 0, 20)

1/8" = 1'-0" (24, 16, 8, 0, 8)

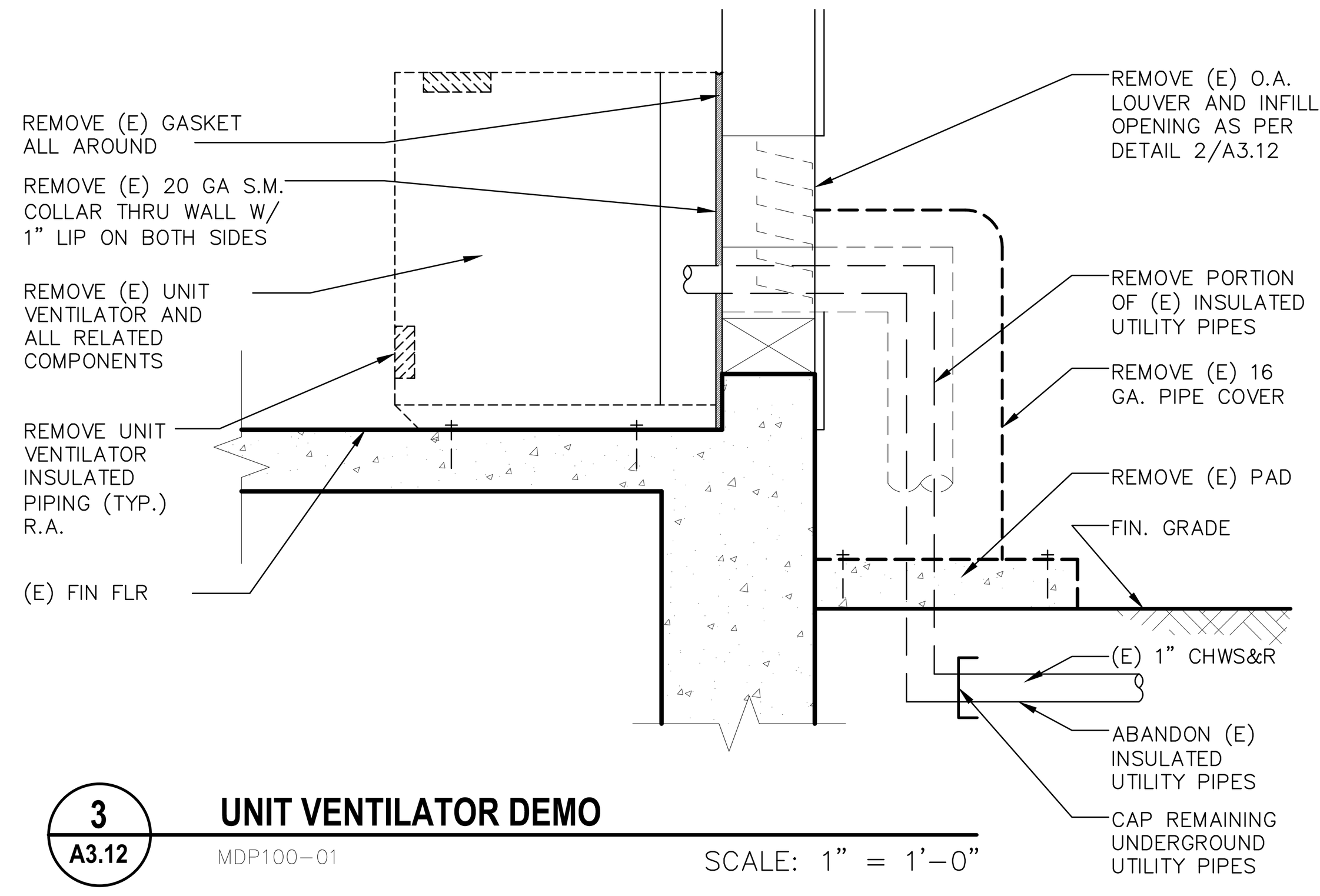
1/4" = 1'-0" (12, 8, 4, 0, 4)



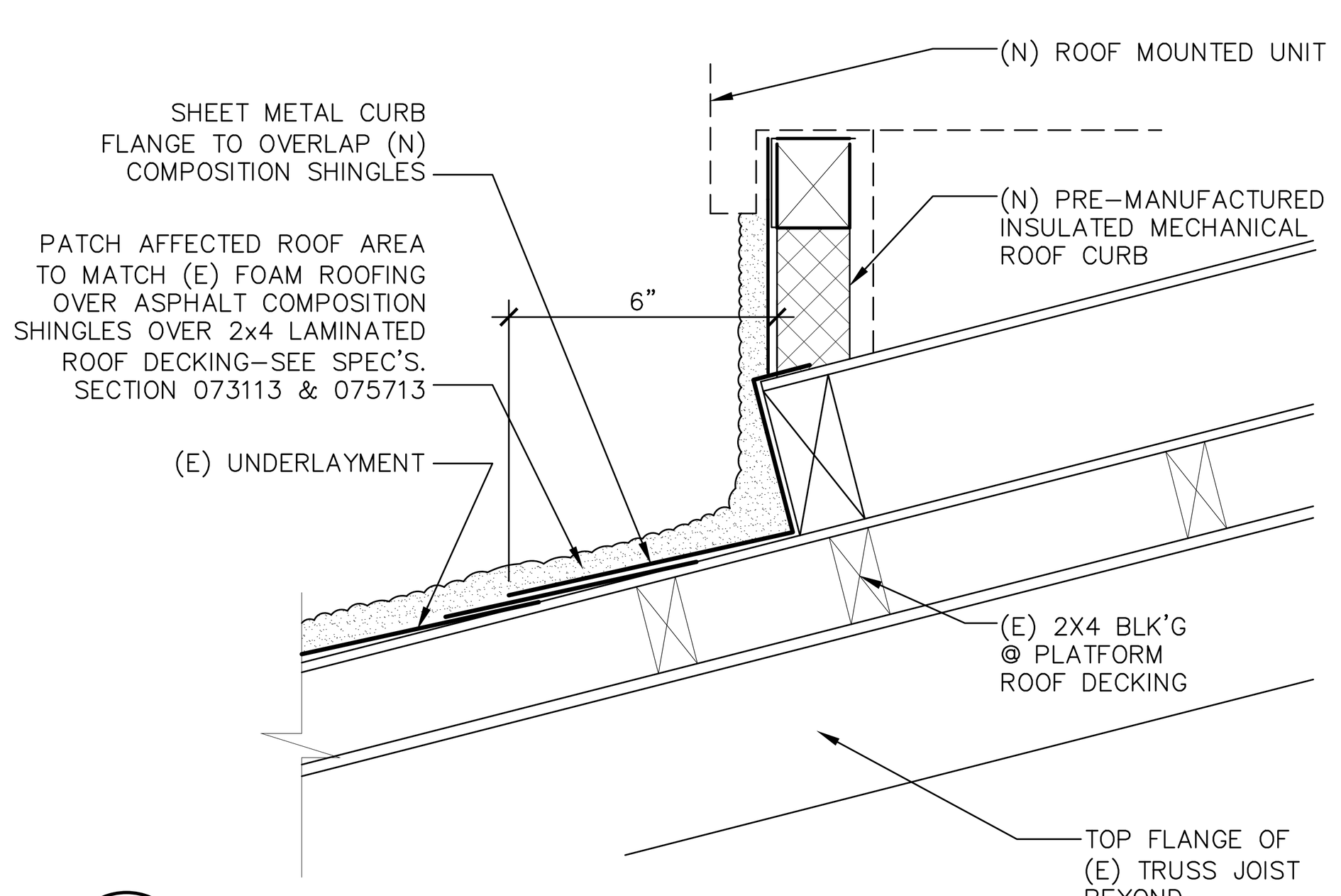
1 A3.12 A/C CURB ADR100-07 SCALE: 1 1/2" = 1'-0"



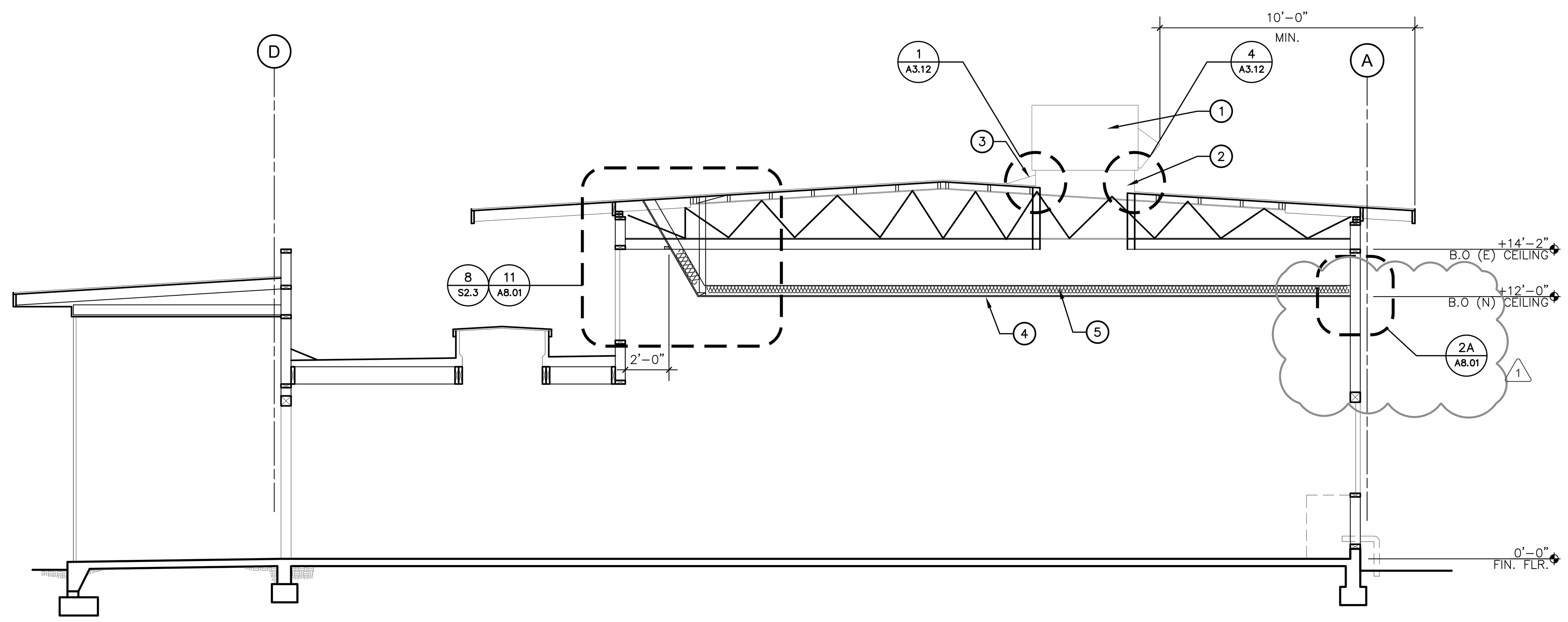
2 A3.12 TYPICAL WALL INFILL ADW141-22 SCALE: 1 1/2" = 1'-0"



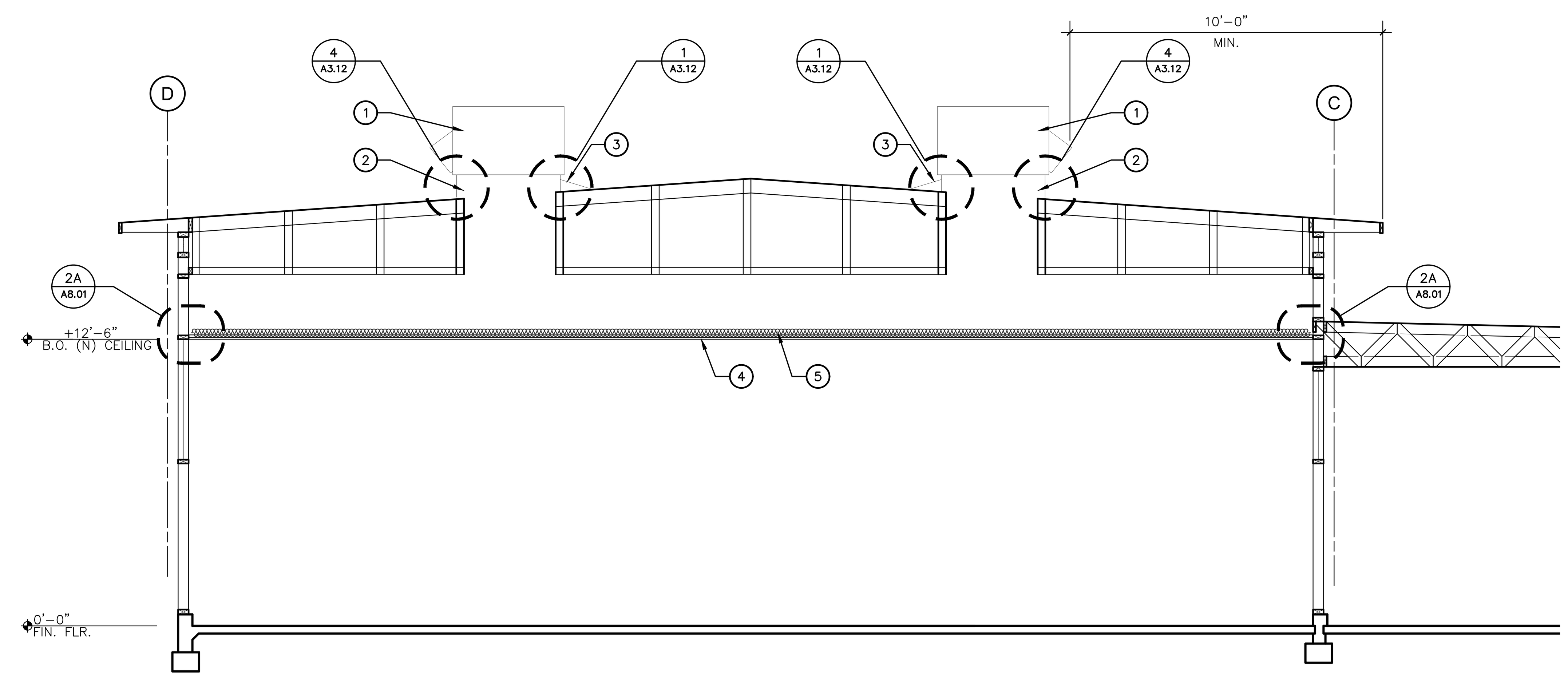
3 A3.12 UNIT VENTILATOR DEMO MDP100-01 SCALE: 1" = 1'-0"



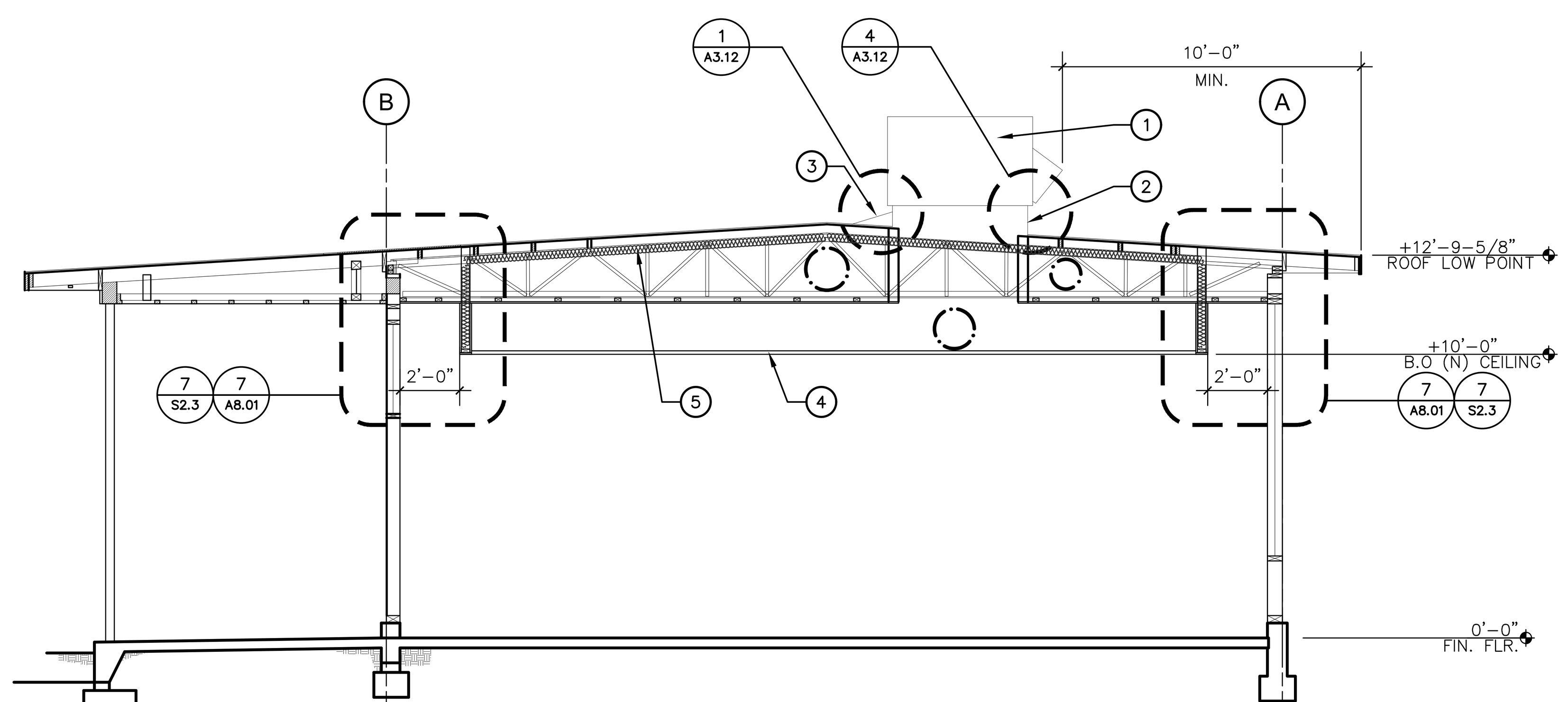
4 A3.12 COMPOSITION SHINGLES ROOF PATCH ADR100-02 SCALE: 3" = 1'-0"



A BUILDINGS C - IMPROVEMENTS
1/4" = 1'-0"



B BUILDINGS F - IMPROVEMENTS
1/4" = 1'-0"



C BUILDINGS A, B, C, D, & E - IMPROVEMENTS
1/4" = 1'-0"

KEY NOTES

1. NEW SINGLE PACKAGE ROOF TOP UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REFER TO STRUCTURAL SHEET S1.3 FOR LOCATION
2. NEW PRE-FAB METAL EQUIPMENT CURB - SEE DETAIL 1/A3.12 AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
3. NEW PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB. PROVIDE A CRICKET TO DIVERT RAIN WATER
4. NEW SUSPENDED ACOUSTIC CEILING SYSTEM - SEE DETAIL 1/A8.01
5. NEW R-30 LAY-ON BATT INSULATION

GENERAL NOTES

A. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF NEW ROOF OPENINGS

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SECTIONS

Job No.: **5526**

Sheet No.: **A3.12**

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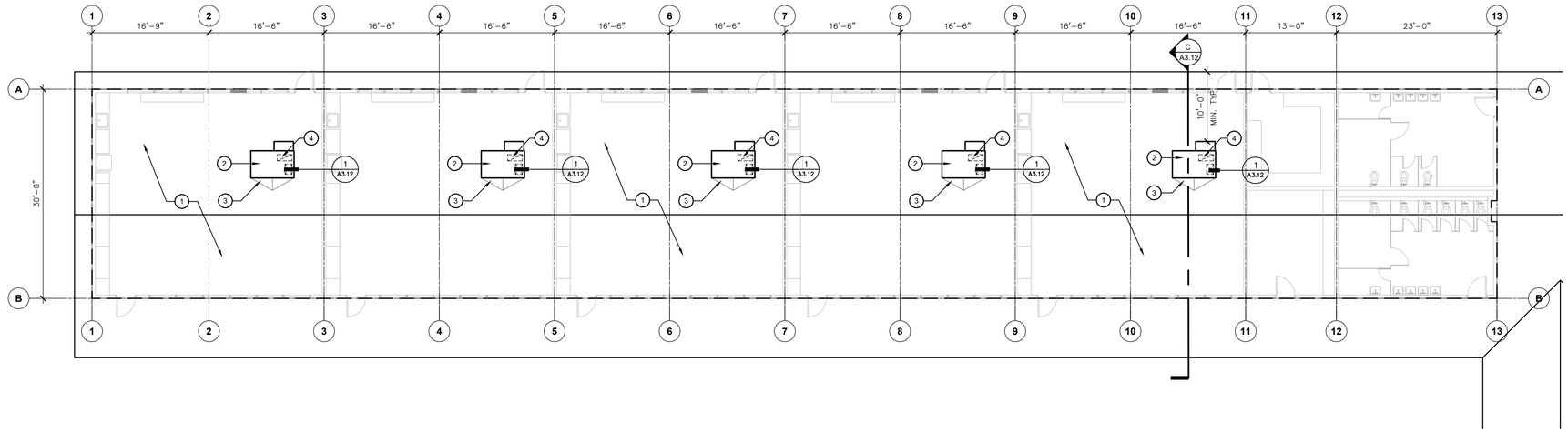
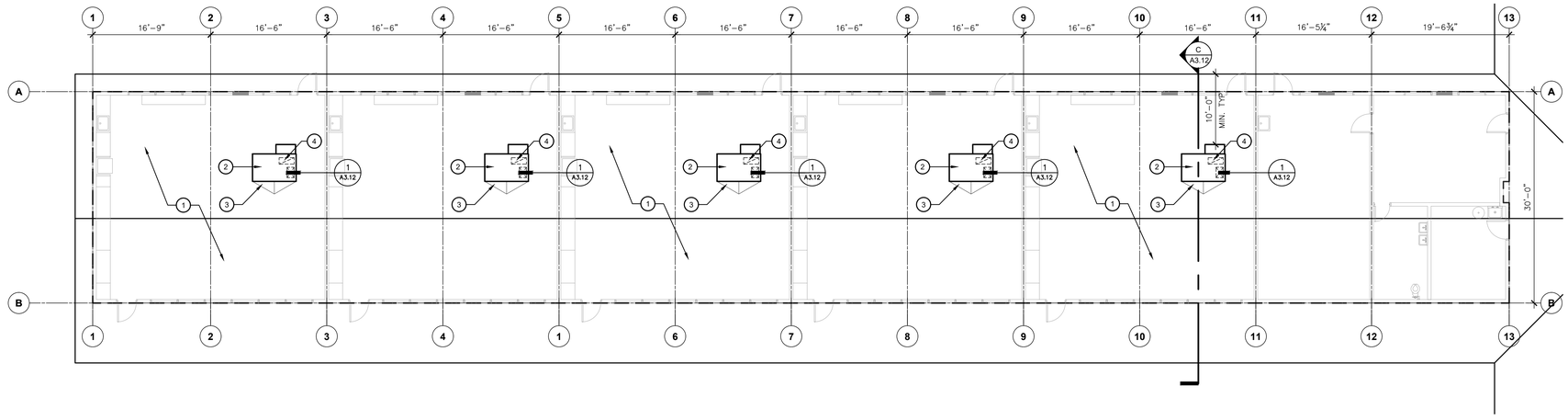


ROOF PLANS - BUILDING A

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



ROOF PLANS - BUILDING B

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

KEY NOTES

1. (E) FOAM ROOFING OVER ASPHALT COMPOSITION SHINGLES OVER 1" DIAGONAL SHEATHING ROOF DECKING.
2. NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND STRUCTURAL SHEET S2.1 FOR PLATFORM AND FRAMING DETAILS.
3. REMOVE PORTION OF (E) FOAM & COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB - PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO CLOSELY MATCH (E) ROOFING - SEE DETAIL 4/A3.12
4. SAW CUT AND REMOVE PORTION OF (E) 1" DIAGONAL SHEATHING AS REQUIRED TO INSTALL AIR DUCTS - COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS - SEE STRUCTURAL DRAWINGS SHEET S2.1 FOR REINFORCING OF ROOF OPENINGS.

GENERAL NOTES

1. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING
2. CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION

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Sheet Title:

ROOF PLANS

Job No.: **5526**

Sheet No.: **A4.10**

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5/2/24

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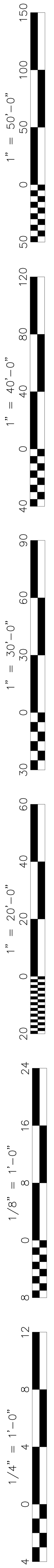
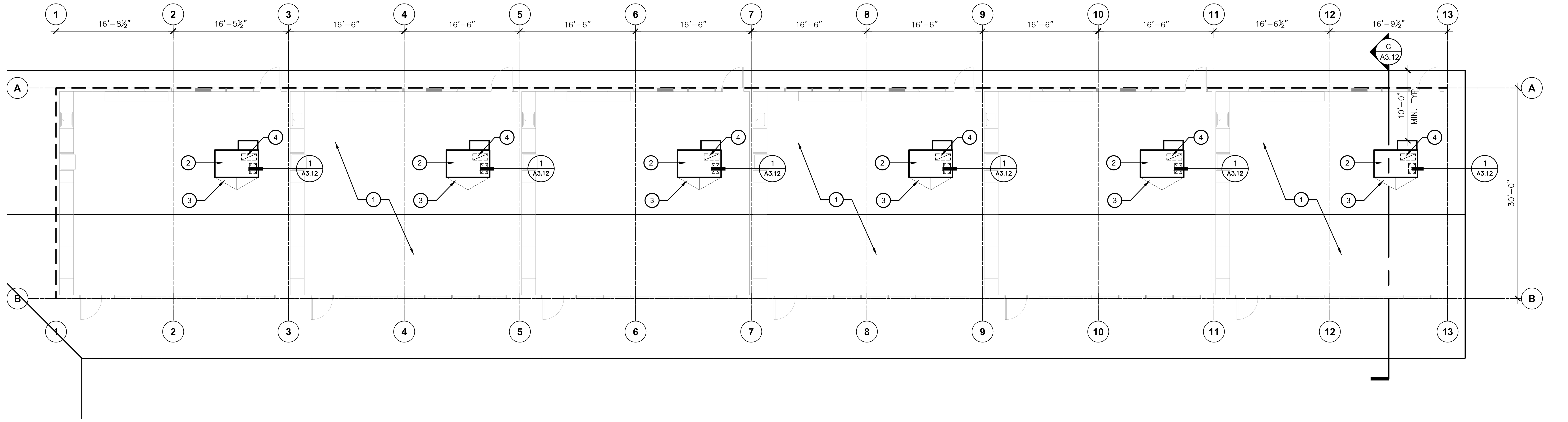
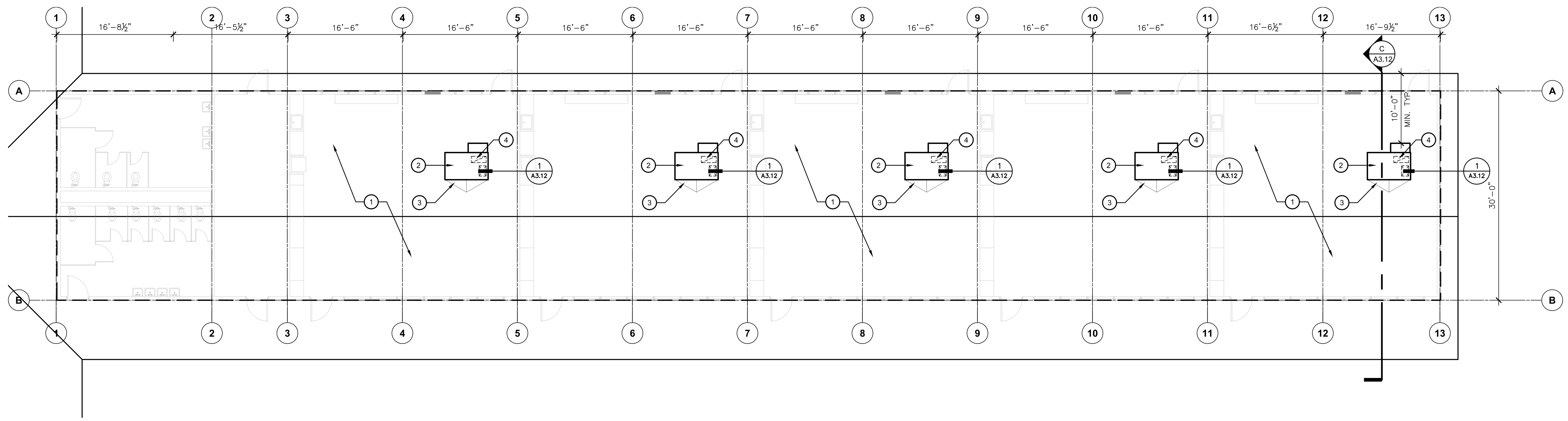




ROOF PLANS - BUILDING D

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



ROOF PLANS - BUILDING E

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

KEY NOTES

1. (E) FOAM ROOFING OVER ASPHALT COMPOSITION SHINGLES OVER 1" DIAGONAL SHEATHING ROOF DECKING.
2. NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND STRUCTURAL SHEET S2.1 FOR PLATFORM AND FRAMING DETAILS.
3. REMOVE PORTION OF (E) FOAM & COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB - PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO CLOSELY MATCH (E) ROOFING - SEE DETAIL 4/A3.12.
4. SAW CUT AND REMOVE PORTION OF (E) 1" DIAGONAL SHEATHING AS REQUIRED TO INSTALL AIR DUCTS - COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS - SEE STRUCTURAL DRAWINGS SHEET S2.1 FOR REINFORCING OF ROOF OPENINGS.

GENERAL NOTES

1. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING
2. CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION

Owner:

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ROOF PLANS

Job No.: **5526**

Sheet No.: **A4.30**

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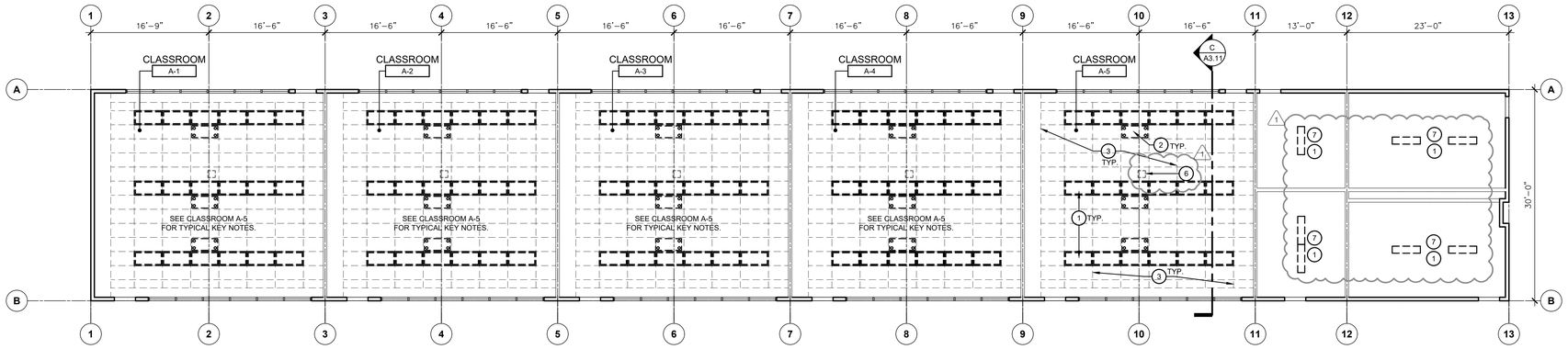
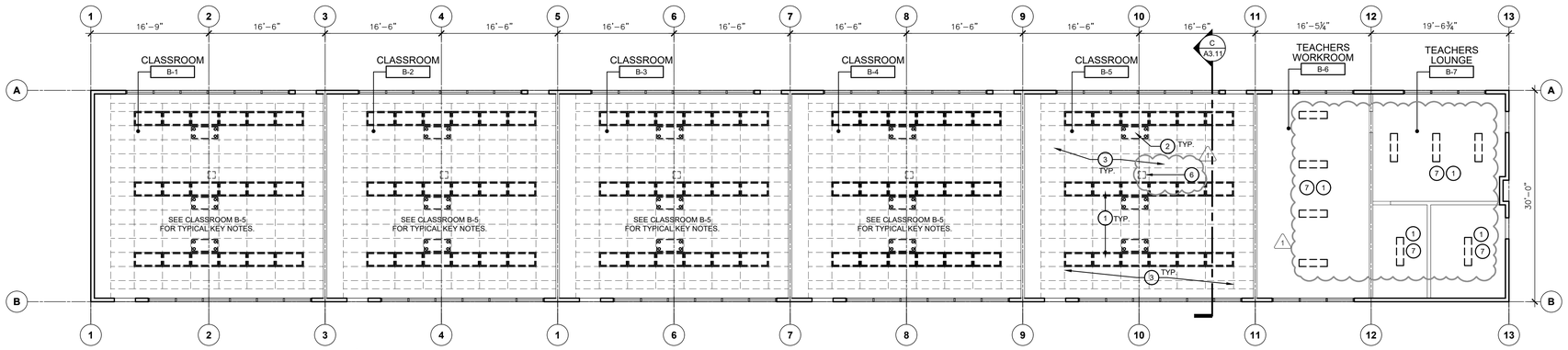


DEMO REFLECTED CEILING PLANS - BUILDING A

HVAC REPLACEMENT

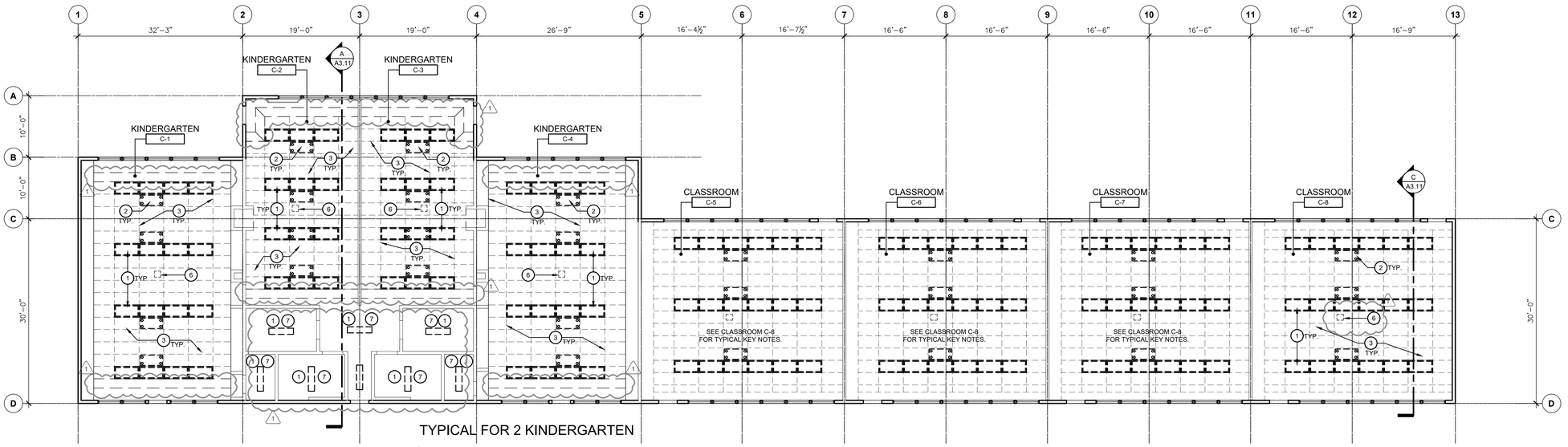
SCALE: 1/8" = 1'-0"



DEMO REFLECTED CEILING PLANS - BUILDING B

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



TYPICAL FOR 2 KINDERGARTEN

DEMO REFLECTED CEILING PLANS - BUILDING C

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

KEY NOTES

1. REMOVE (E) LIGHT FIXTURES.
2. DISTRICT TO REMOVE (E) IONIZER AND SALVAGE FOR RELOCATION BY THE ELECTRICAL CONTRACTOR. SEE SHEET A6.20 FOR NEW LOCATION.
3. REMOVE (E) SUSPENDED ACOUSTICAL CEILING, SPEAKERS, PROJECTORS, STROBE LIGHTS, SENSORS, ETC. SHALL BE SALVAGED FOR RELOCATION. THE DISTRICT WILL SELECT THE ITEMS TO BE RELOCATED.
4. NOT USED.
5. NOT USED.
6. REMOVE (E) RETURN AIR GRILL.
7. (E) HARD CEILING TO REMAIN.

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Project Address:

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Sheet Title: **DEMO REFLECTED CEILING PLANS**

Job No.: **5526**

Sheet No.: **A6.10**

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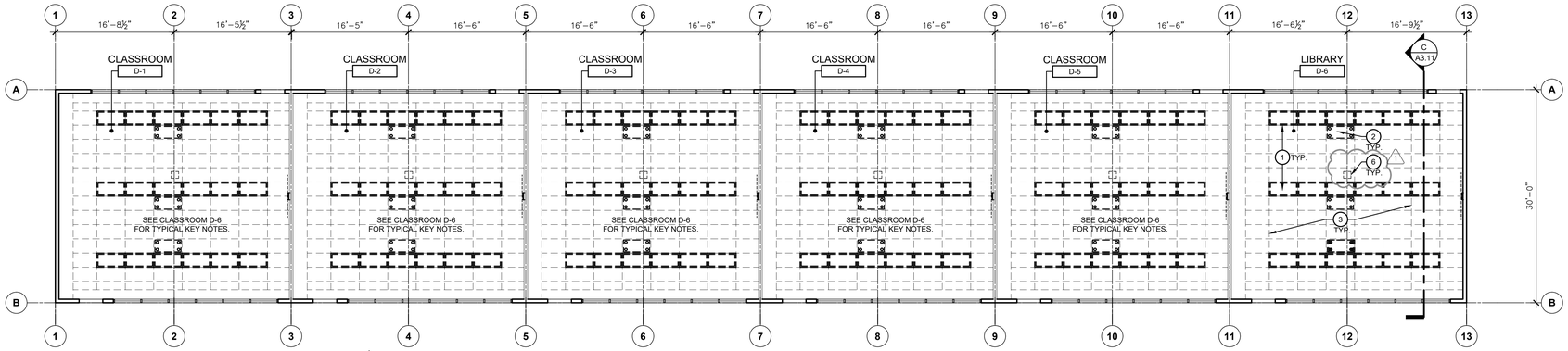
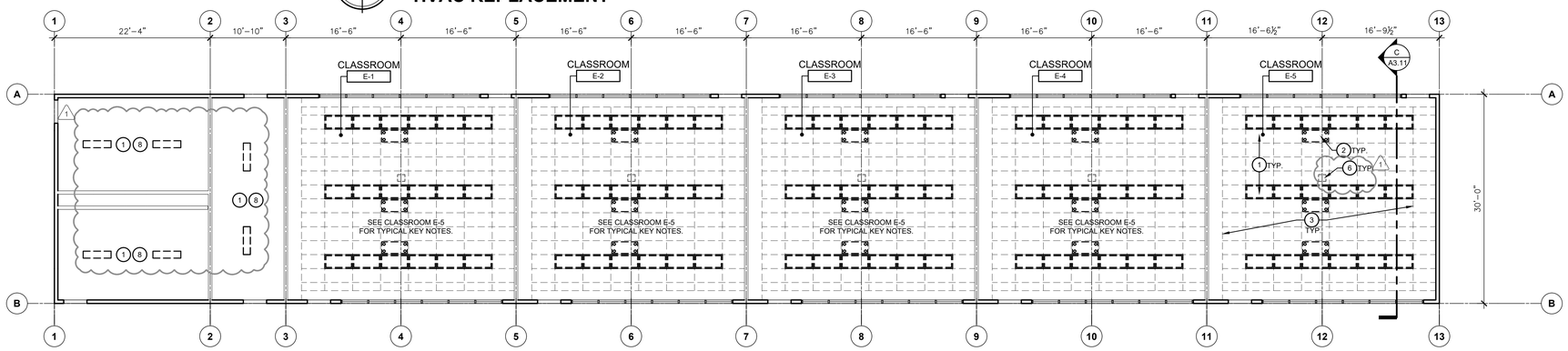


DEMO REFLECTED CEILING PLANS - BUILDING D

HVAC REPLACEMENT

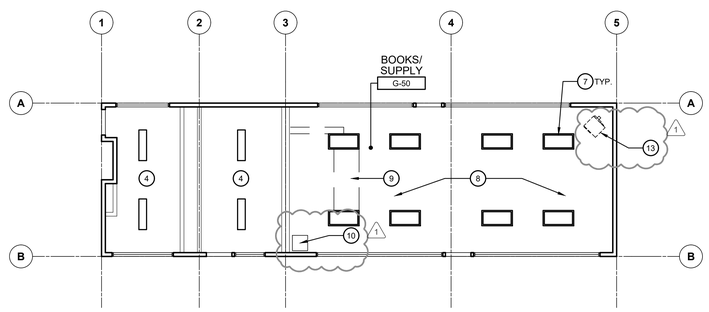
SCALE: 1/8" = 1'-0"



DEMO REFLECTED CEILING PLANS - BUILDING E

HVAC REPLACEMENT

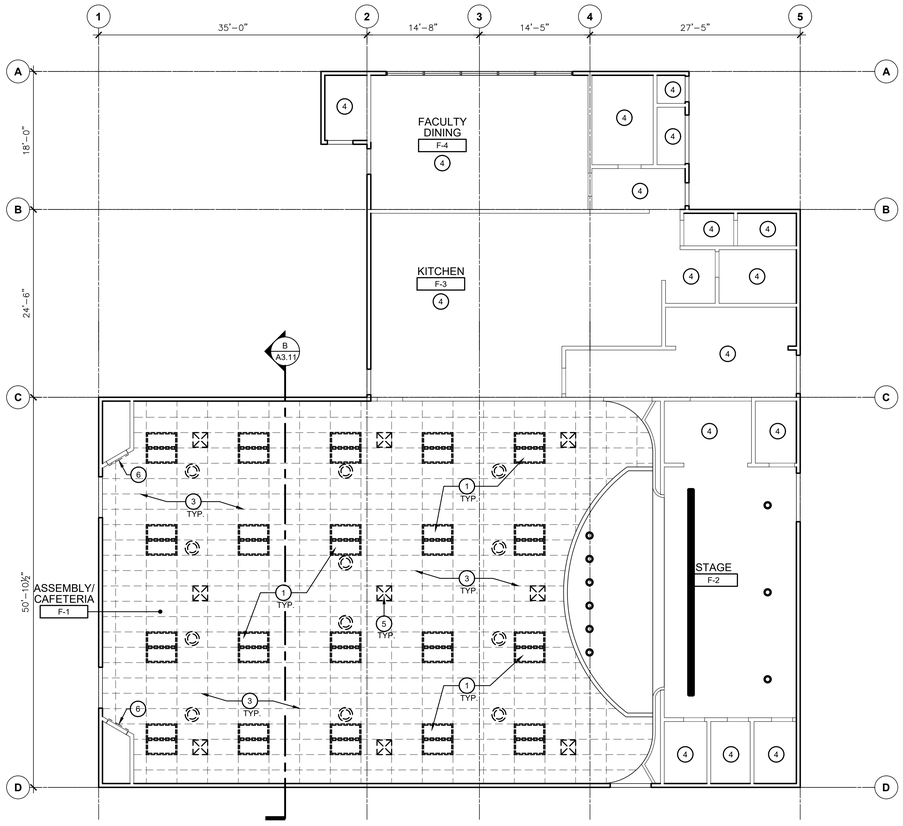
SCALE: 1/8" = 1'-0"



DEMO REFLECTED CEILING PLAN - BUILDING G

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



DEMO REFLECTED CEILING PLANS - BUILDING F

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

KEY NOTES

1. REMOVE (E) LIGHT FIXTURES.
2. DISTRICT TO REMOVE (E) IONIZER AND SALVAGE FOR RELOCATION BY THE ELECTRICAL CONTRACTOR. SEE SHEET A6.21 FOR NEW LOCATION.
3. REMOVE (E) SUSPENDED ACOUSTICAL CEILING, SPEAKERS, PROJECTORS, STROBE LIGHTS, SENSORS, ETC. SHALL BE SALVAGED FOR RELOCATION. THE DISTRICT WILL SELECT THE ITEMS TO BE RELOCATED.
4. NO WORK IN THIS ROOM.
5. REMOVE (E) AIR SUPPLY GRILL.
6. REMOVE (E) RETURN AIR GRILL.
7. (E) FLUORESCENT LIGHT FIXTURES TO REMAIN.
8. (E) HARD CEILING TO REMAIN.
9. REMOVE PORTION OF (E) HARD CEILING AS REQUIRED TO INSTALL (N) INDOOR UNIT AND CONDENSATE PIPE- SEE MECHANICAL SHEET M2.71.
10. (E) IDF TO REMAIN.
11. (E) HEATER TO BE REMOVED

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Sheet Title: **DEMO REFLECTED CEILING PLANS**

Job No.: **5526**

Sheet No.: **A6.11**

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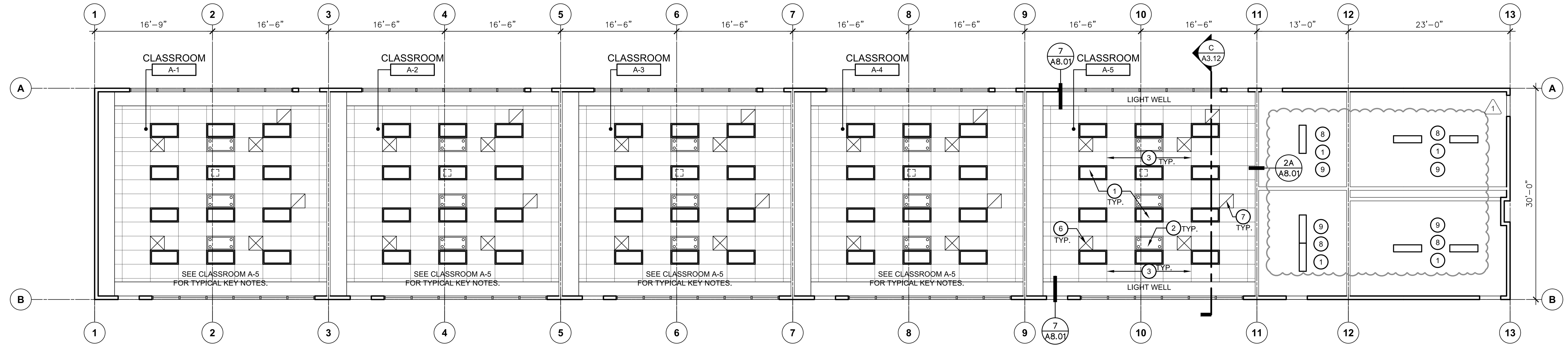
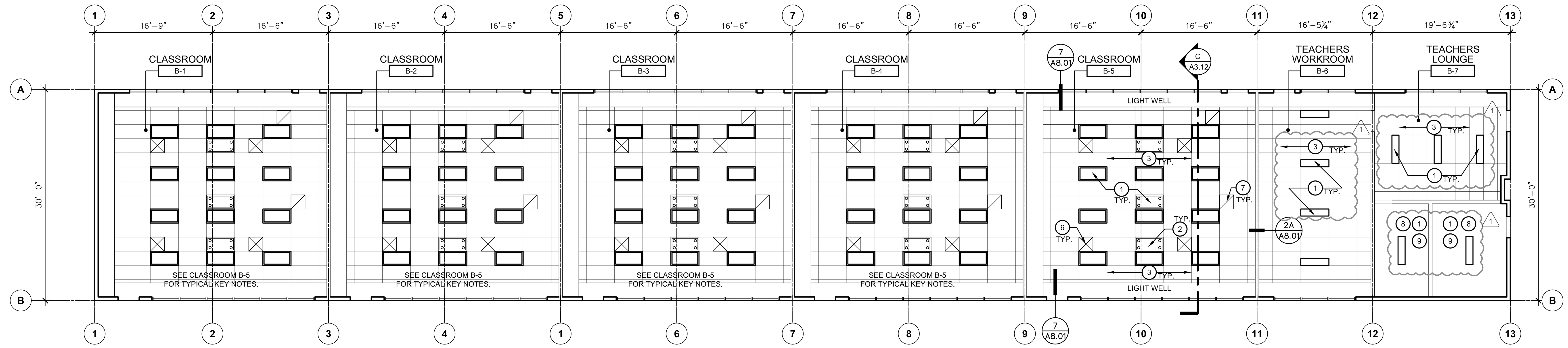


REFLECTED CEILING PLANS - BUILDING A

HVAC REPLACEMENT

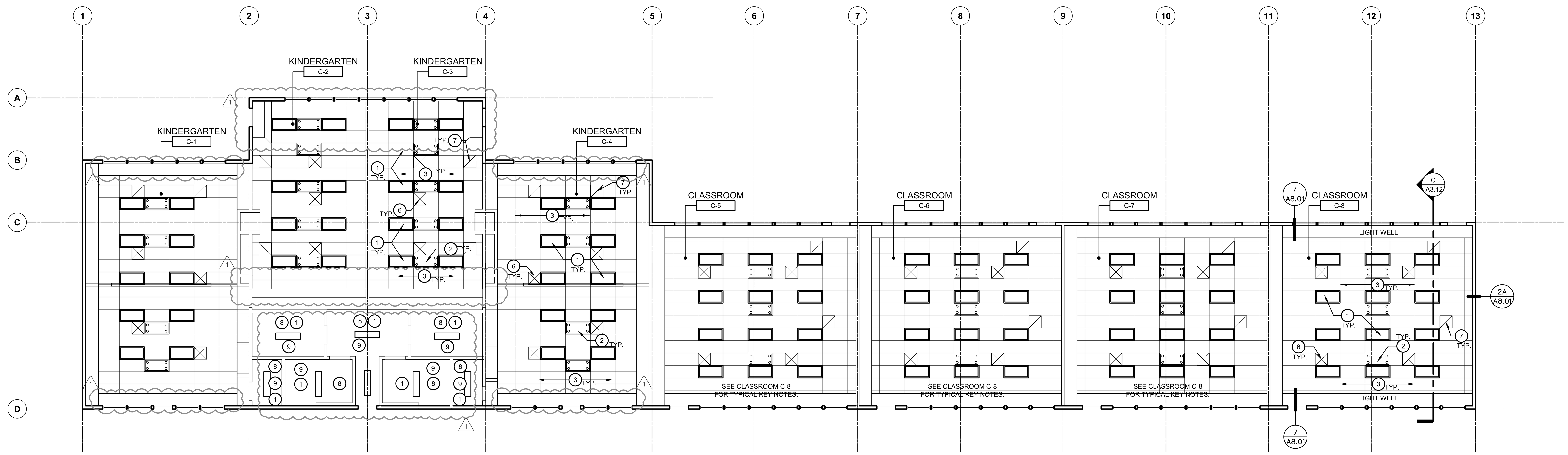
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLANS - BUILDING B

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLANS - BUILDING C

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

KEY NOTES

1. INSTALL NEW LIGHT FIXTURES - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAIL 9/A8.01.
2. REINSTALL SALVAGED IONIZER - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. INSTALL A NEW SUSPENDED ACCOUSTICAL TILE CEILING - SEE DETAIL 1/A8.01.
4. NOT USED.
5. NEW INDOOR UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. NEW SUPPLY AIR GRILL - SEE MECHANICAL FOR SIZE AND TYPE.
7. NEW RETURN AIR GRILL - SEE MECHANICAL FOR SIZE AND TYPE.
8. PATCH & PAINT AREAS AFFECTED BY (N) ELECTRICAL LIGHTING & FIRE ALARMS. TO MATCH EXISTING ADJACENT SURFACE THICKNESS AND TEXTURE.
9. (E) HARD CEILING TO REMAIN.

Owner:

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Job No.: **5526**

Sheet No.: **A6.20**

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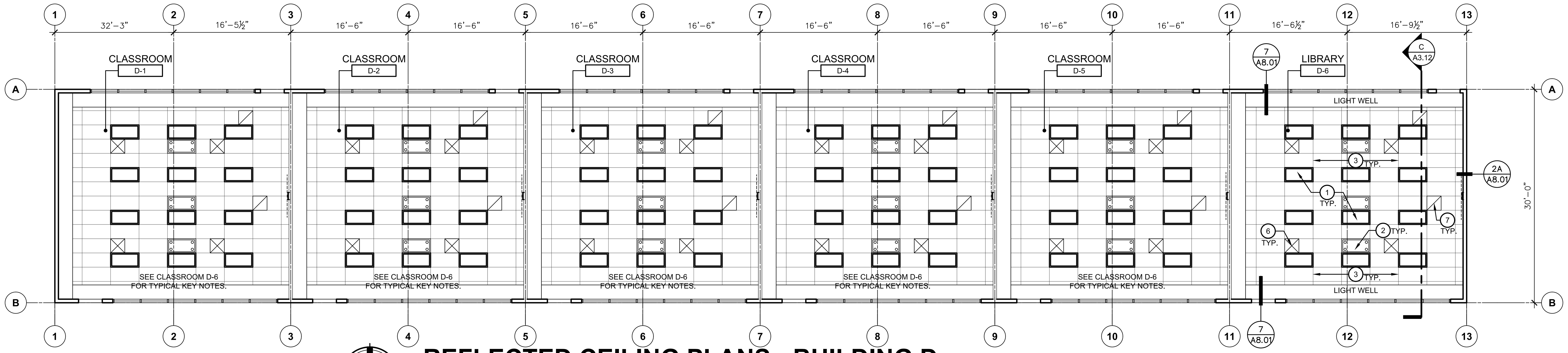
KEY NOTES

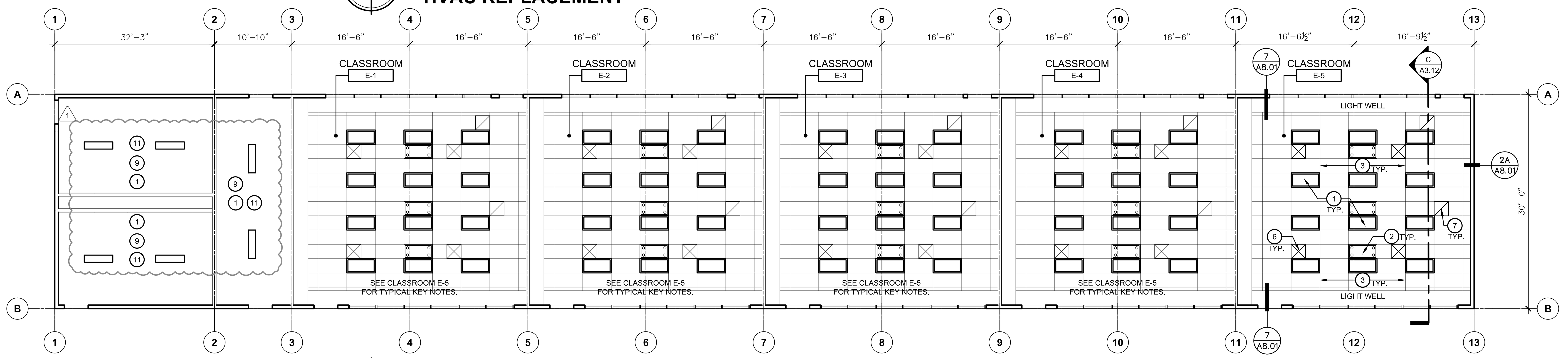
1. INSTALL NEW LIGHT FIXTURES - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAIL 9/A8.01.
2. REINSTALL SALVAGED IONIZER - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. INSTALL A NEW SUSPENDED ACCOUSTICAL TILE CEILING - SEE DETAIL 1/A8.01.
4. NO WORK IN THIS ROOM.
5. NEW INDOOR UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. NEW SUPPLY AIR GRILL - SEE MECHANICAL FOR SIZE AND TYPE.
7. NEW RETURN AIR GRILL - SEE MECHANICAL FOR SIZE AND TYPE.
8. PATCH PORTION OF CEILING TO MATCH SURROUNDING (E) CEILING THICKNESS, TEXTURE AND COLOR .
9. (E) HARD CEILING TO REMAIN.
10. (E) FLUORESCENT LIGHT FIXTURES TO REMAIN.
11. PATCH & PAINT AREAS AFFECTED BY NEW HVAC, ELECTRICAL LIGHTING & FIRE ALARM. TO MATCH EXISTING ADJACENT SURFACE THICKNESS & TEXTURE.
12. (E) IDF TO REMAIN.



REFLECTED CEILING PLANS - BUILDING D

HVAC REPLACEMENT

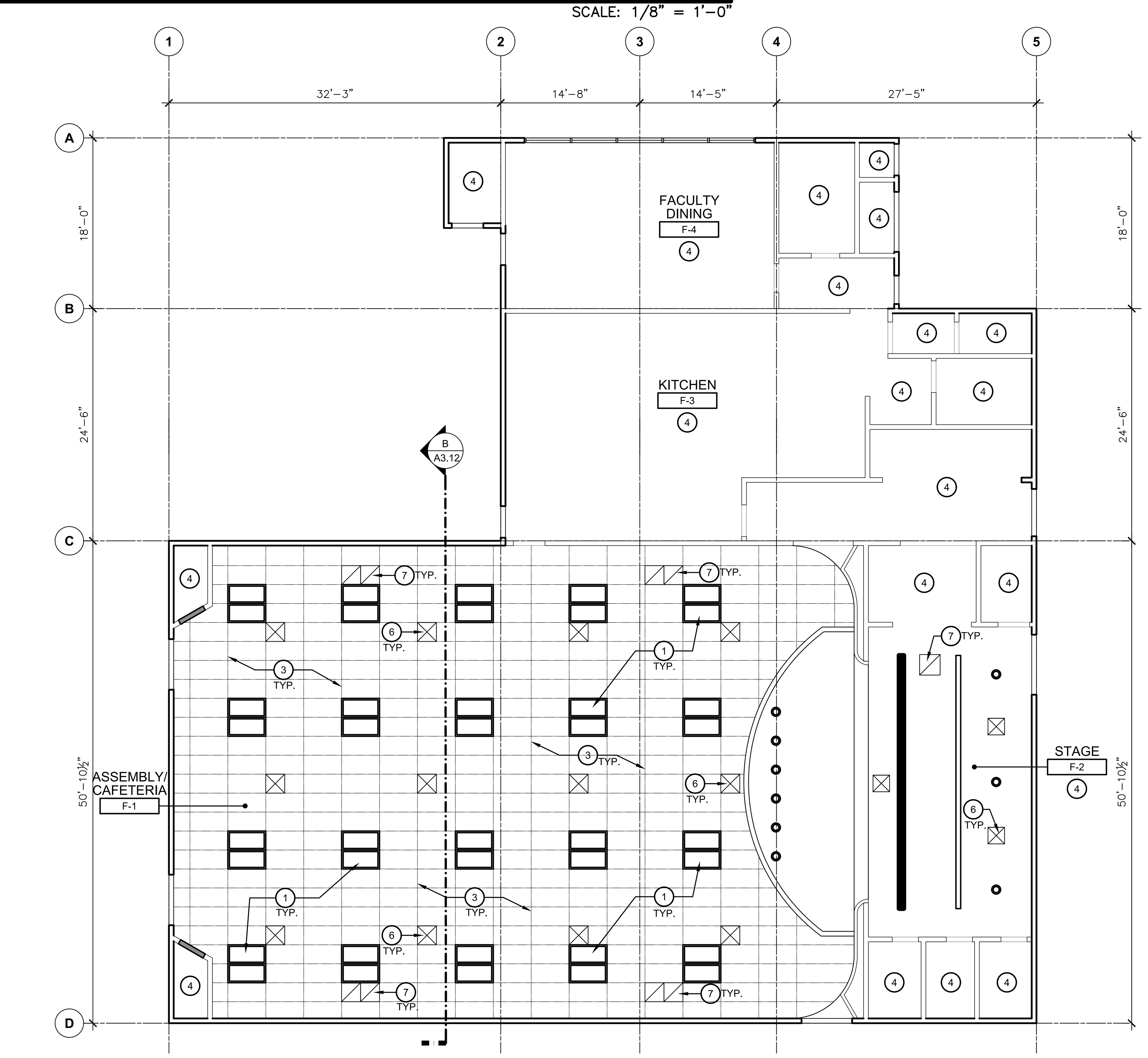
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLANS - BUILDING E

HVAC REPLACEMENT

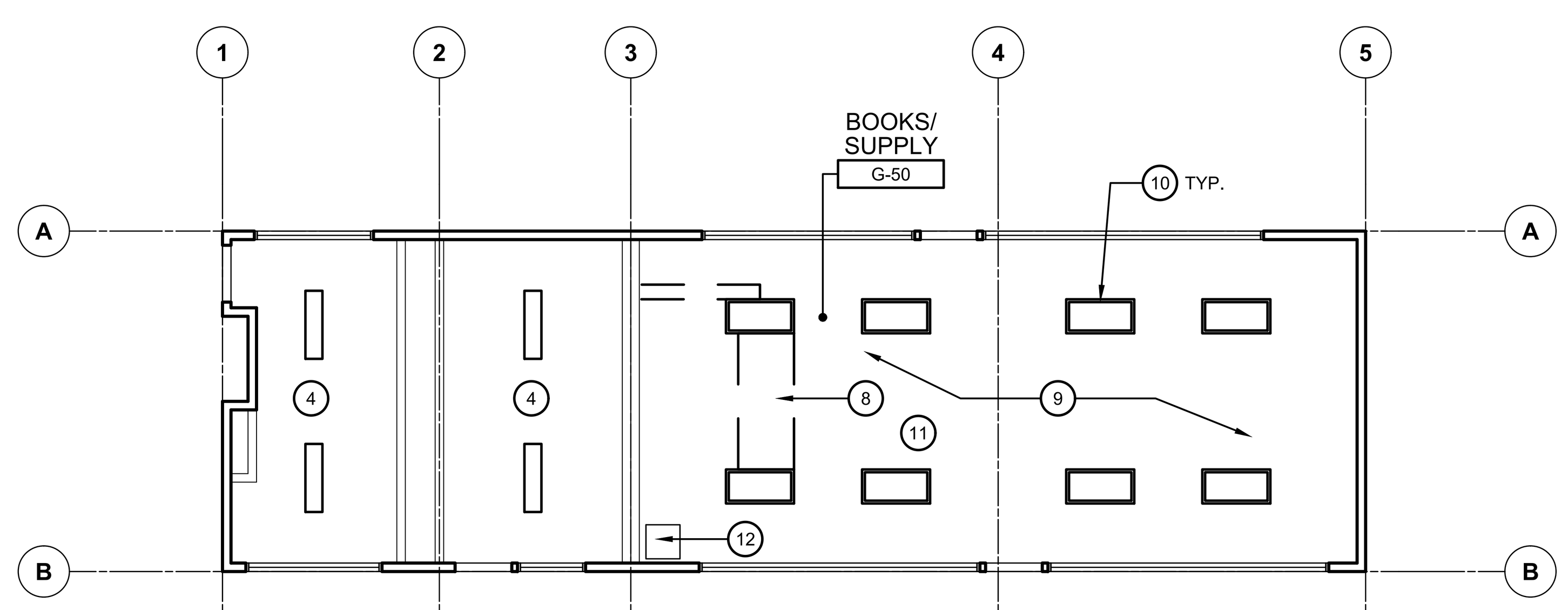
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLANS - BUILDING F

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLAN - BUILDING G

HVAC REPLACEMENT

SCALE: 1/8" = 1'-0"

Owner:

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HVAC REPLACEMENT

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5526

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CEILING SYSTEM GENERAL NOTES

DSA IR 25-2 Revised 03/18/22 Under CBC 2019
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.

1.03 Ceiling systems.The following ceiling system(s) is/are part of the scope of this project:

Manufacturer: ARMSTRONG WORLD INDUSTRIES
Product Name: Acoustical Panel Ceiling
Evaluation Report Type and Number: ESK 1308
Main Runner Part, Model, or Catalog Number: 7301
Cross Runner Part, Model, Catalog Number: ML 73 43

1.04 Seismic Wall Clip: Manufacturer's Model: BERC 2

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit, and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: HILTI KWIK BOLT 3 / ICC-ES ESR-1385.

4.03 Power-Actuated Fasteners shall be: HILTI X-DNI 42 P8 / ICC-ES ESR-2269.

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing must be performed in the presence of the project inspector.

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14-gauge. Rotational spring catches do not comply. A #12-gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.

6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12-gauge slack safety wire connected from the fixture housing to the structure above.

6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12-gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12-gauge slack safety wire at each corner.

6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12-gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12-gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

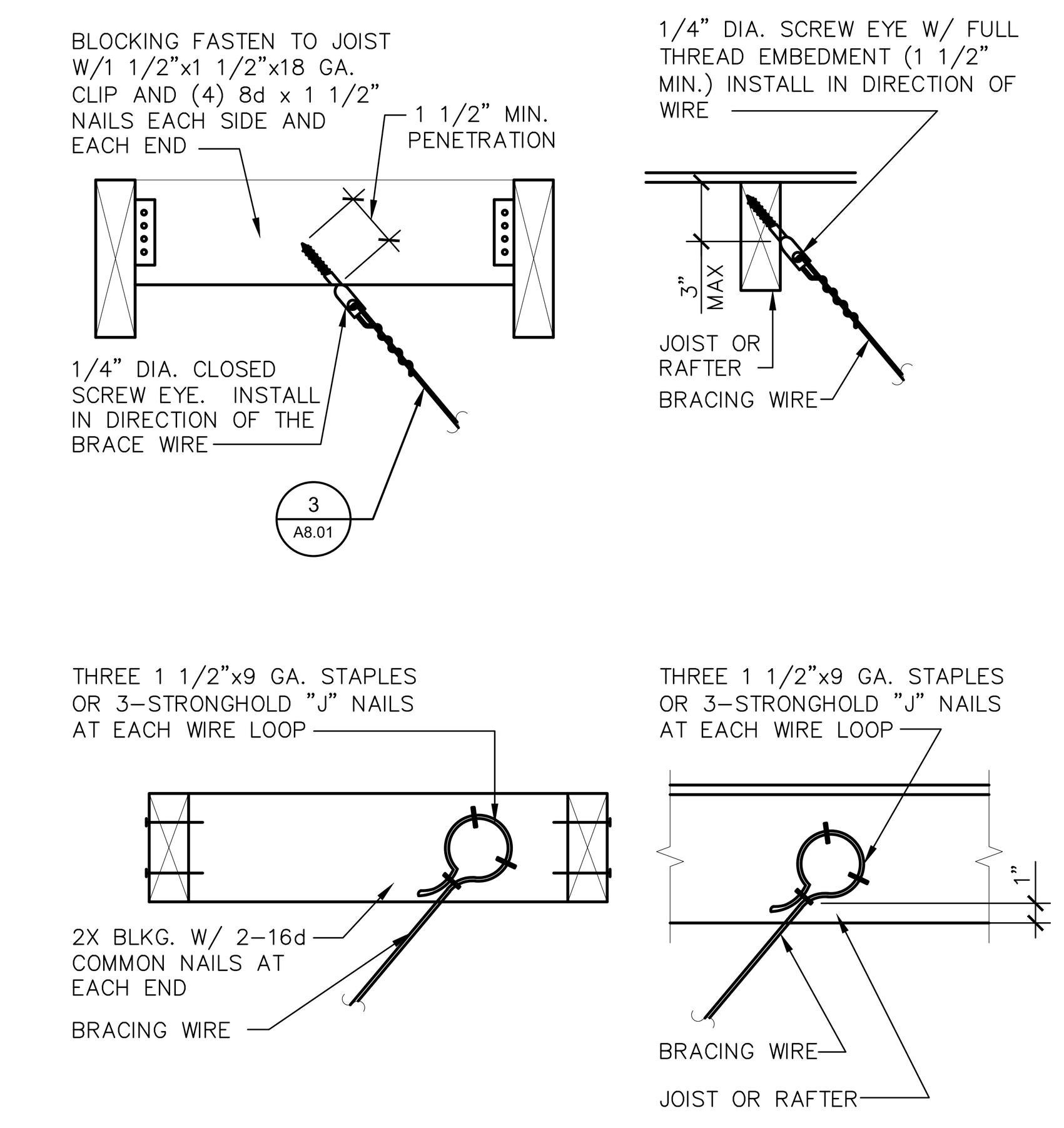
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12-gauge slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12-gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

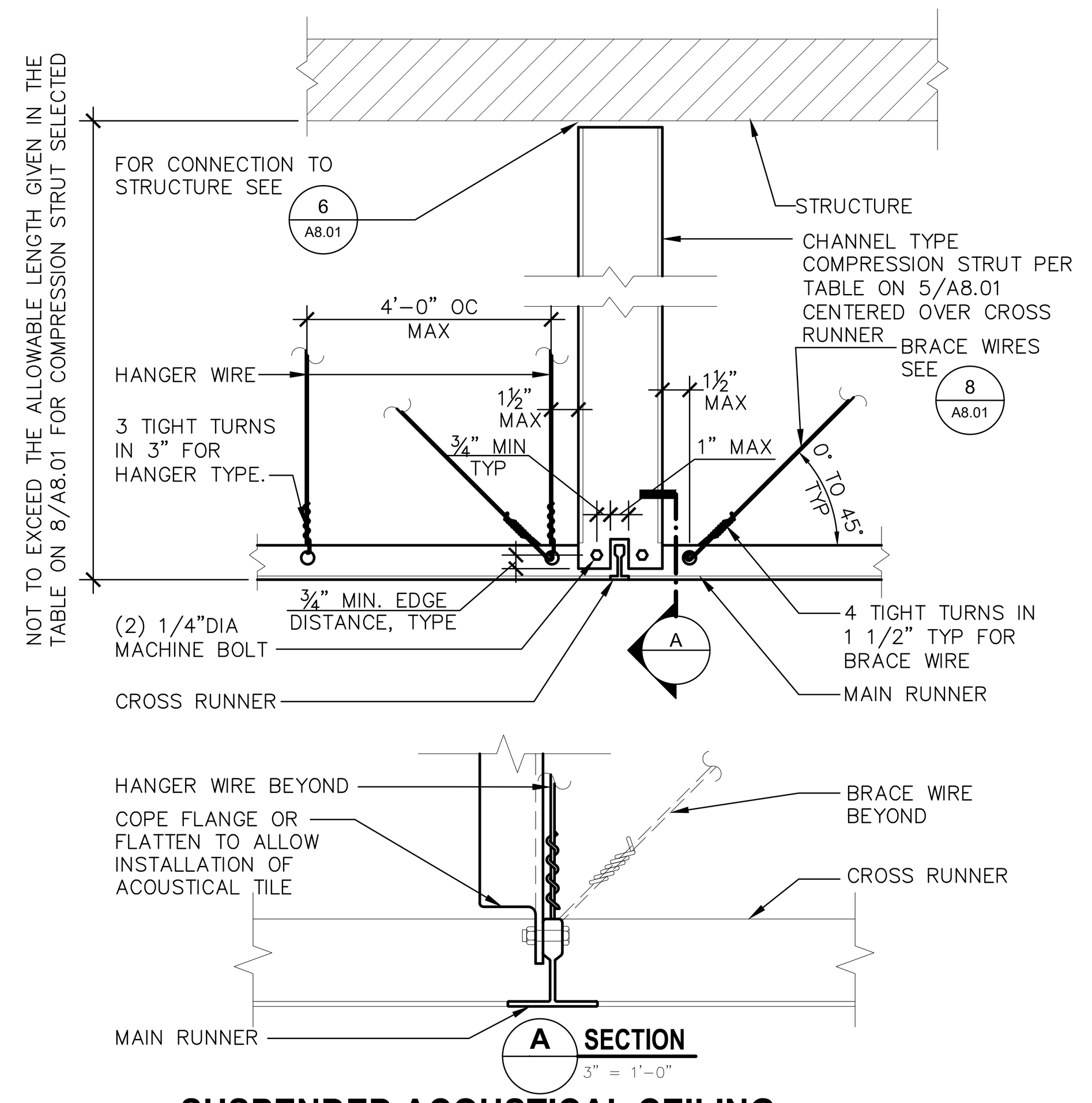
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall have a #12-gauge slack safety wire attached from the terminal or service to the structure above and not less than four taut #12-gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

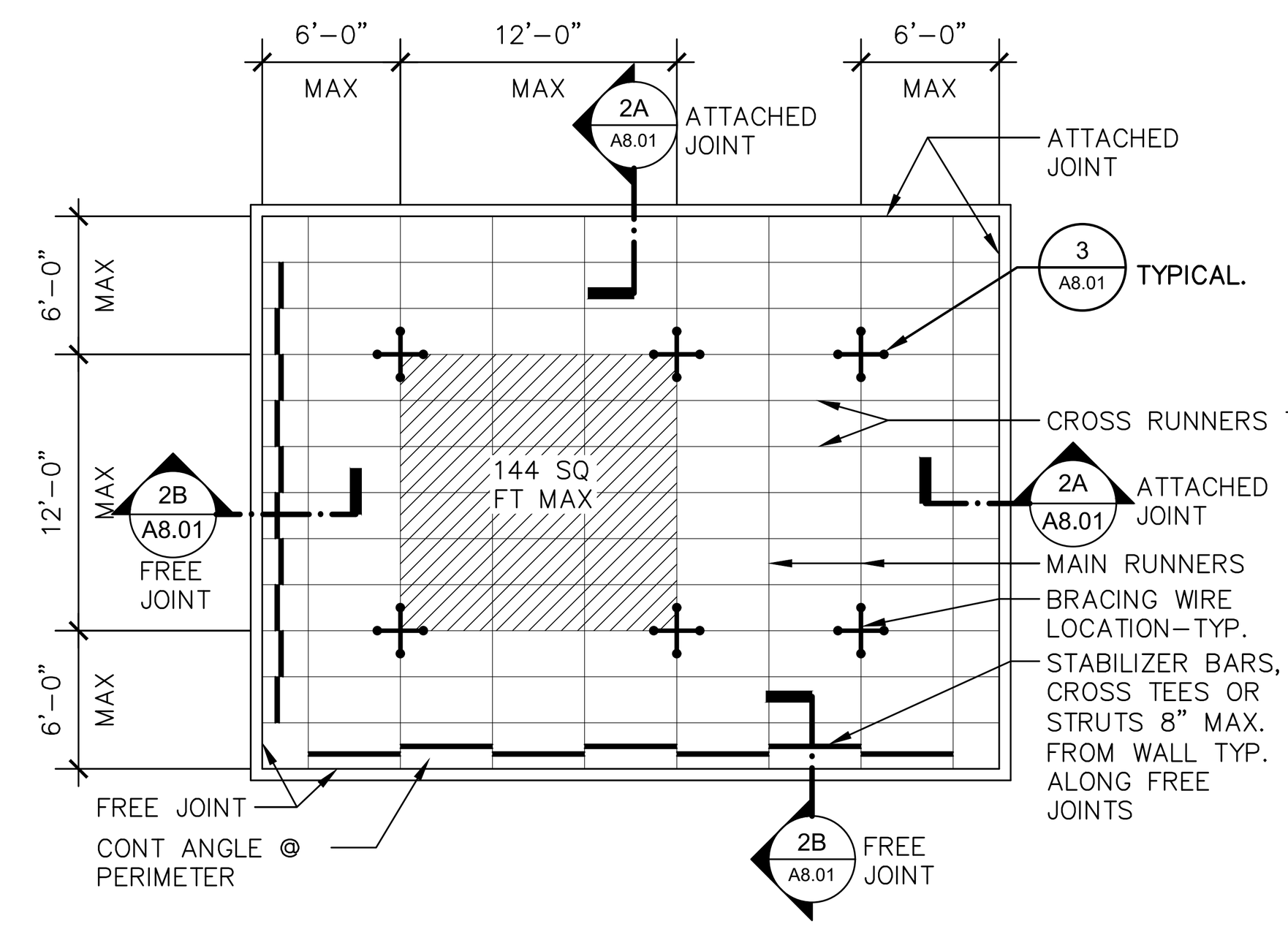
8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12-gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.



8 A8.01 **BRACING WIRE CONNECTION TO SAWN TIMBER**
SCALE: 1 1/2" = 1'-0"

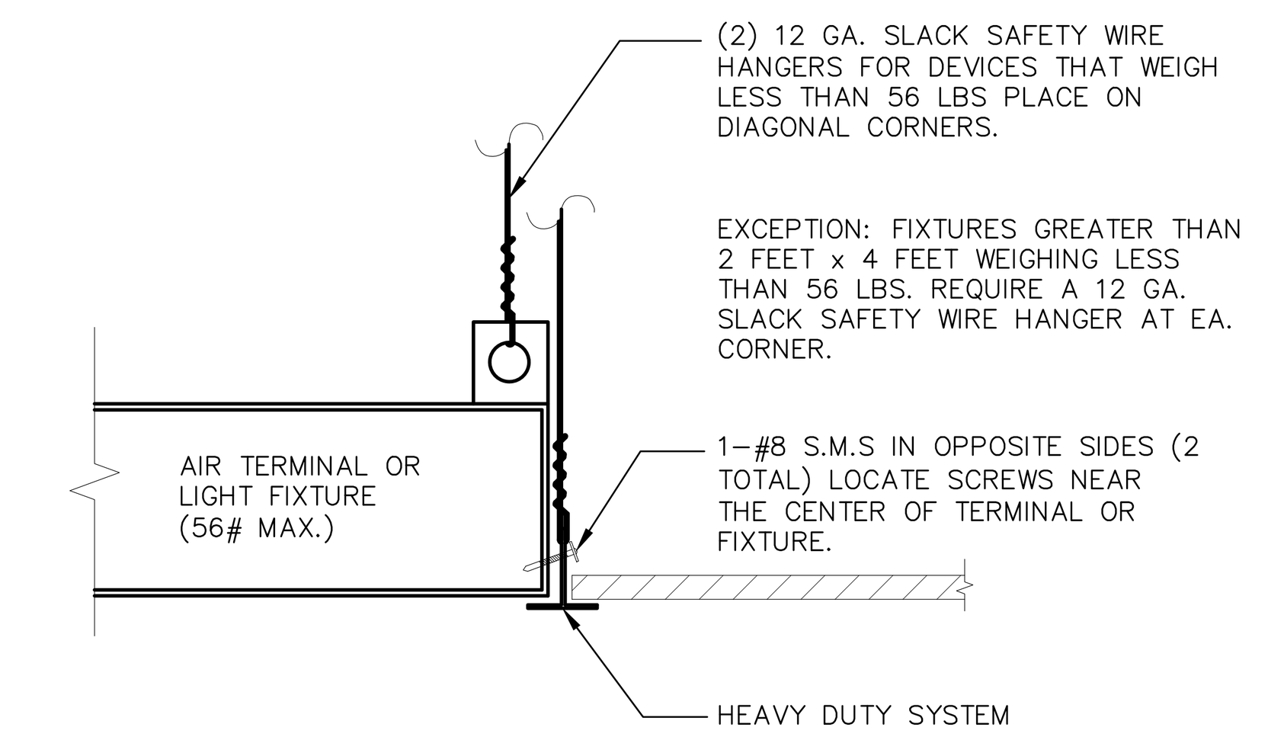


4 A8.01 **SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT**
REFERENCE: DSA IR 25-2.13 SCALE: 1 1/2" = 1'-0"



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

1 A8.01 **TYPICAL CEILING PLAN FOR 12'-0" x 12'-0" Brace Assembly Spacing**
REFERENCE: DSA IR 25 - 2.12 SCALE: 1/8" = 1'-0"



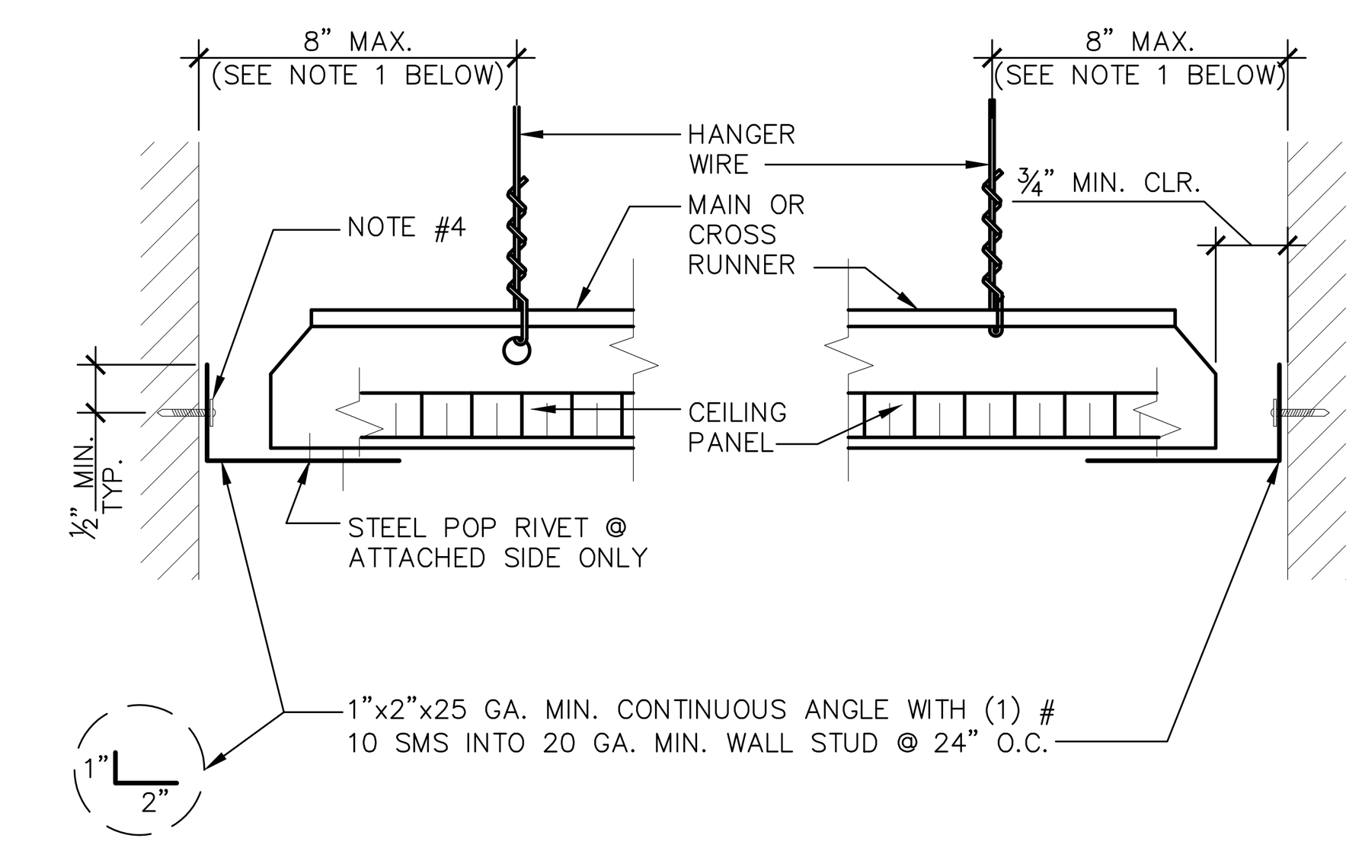
9 A8.01 **SUSPENDED ACOUSTICAL CEILING-LIGHT FIXTURES / AIR TERMINAL SUPPORT**
REFERENCE: DSA IR 25-2.13 DETAIL 2.80 SCALE: 1" = 1'-0"

COMPRESSION STRUT TABLE

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	5'-10"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	7'-8"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

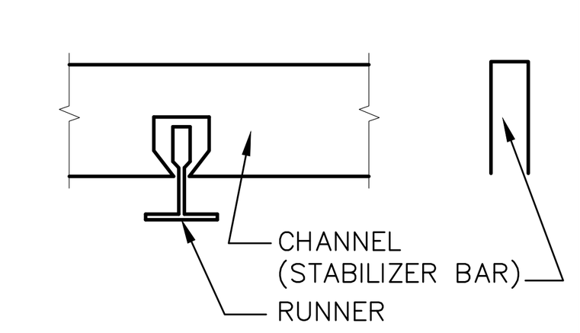
5 A8.01 **COMPRESSION STRUT TABLE**
REFERENCE: DSA IR 25-2.13 DETAIL 3.21 SCALE: 6" = 1'-0"



A **ATTACHED JOINT** B **FREE JOINT**

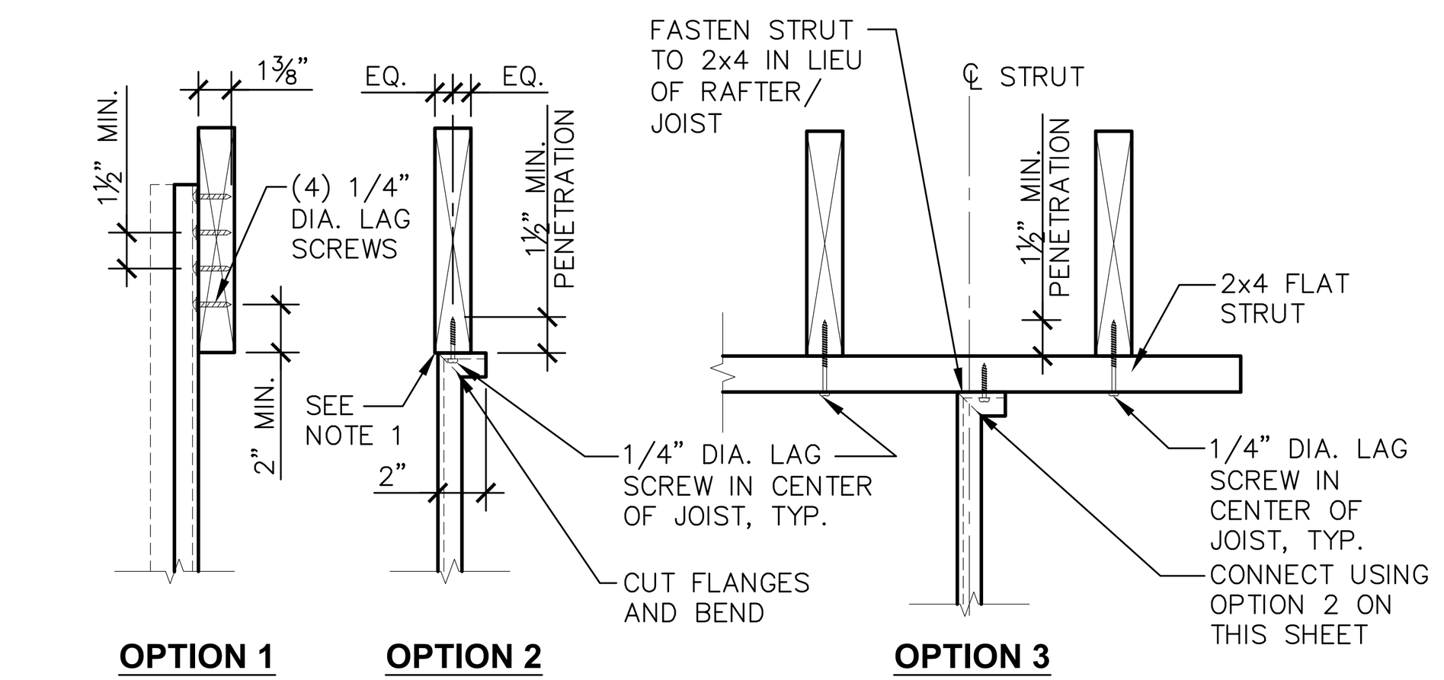
NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE END OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

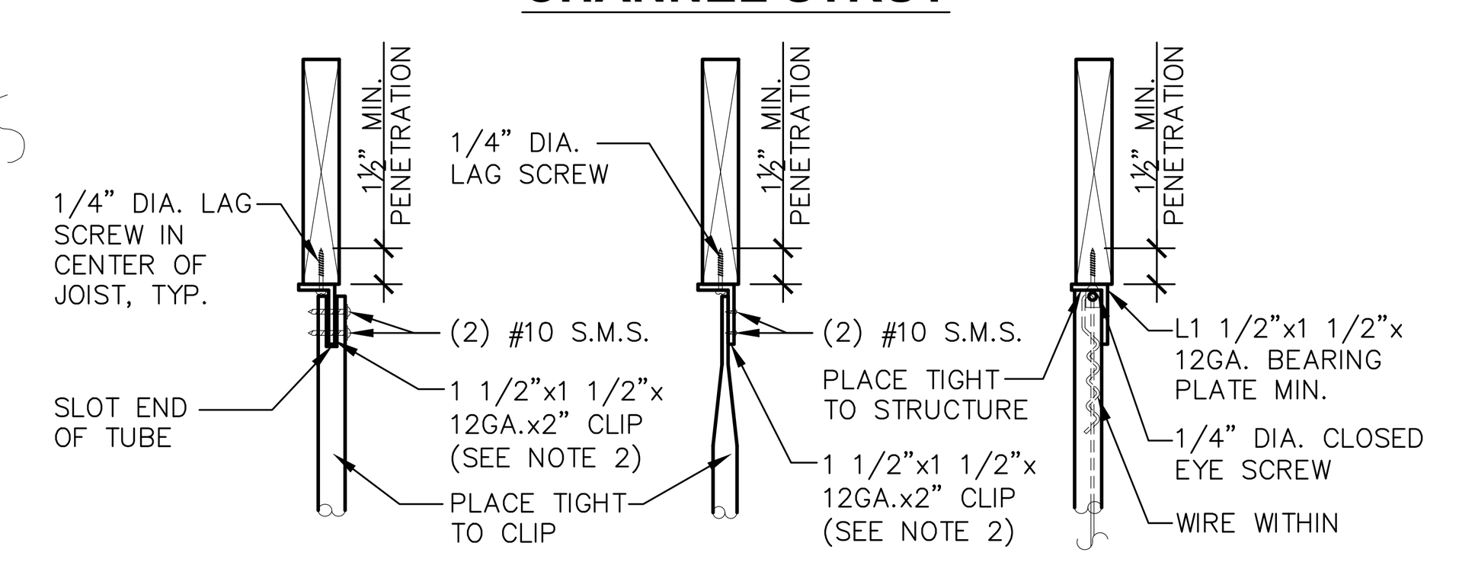


APPROVED STABILIZER
(SEE NOTE 3)

2 A8.01 **CEILING PERIMETER**
SCALE: 6" = 1'-0"



CHANNEL STRUT



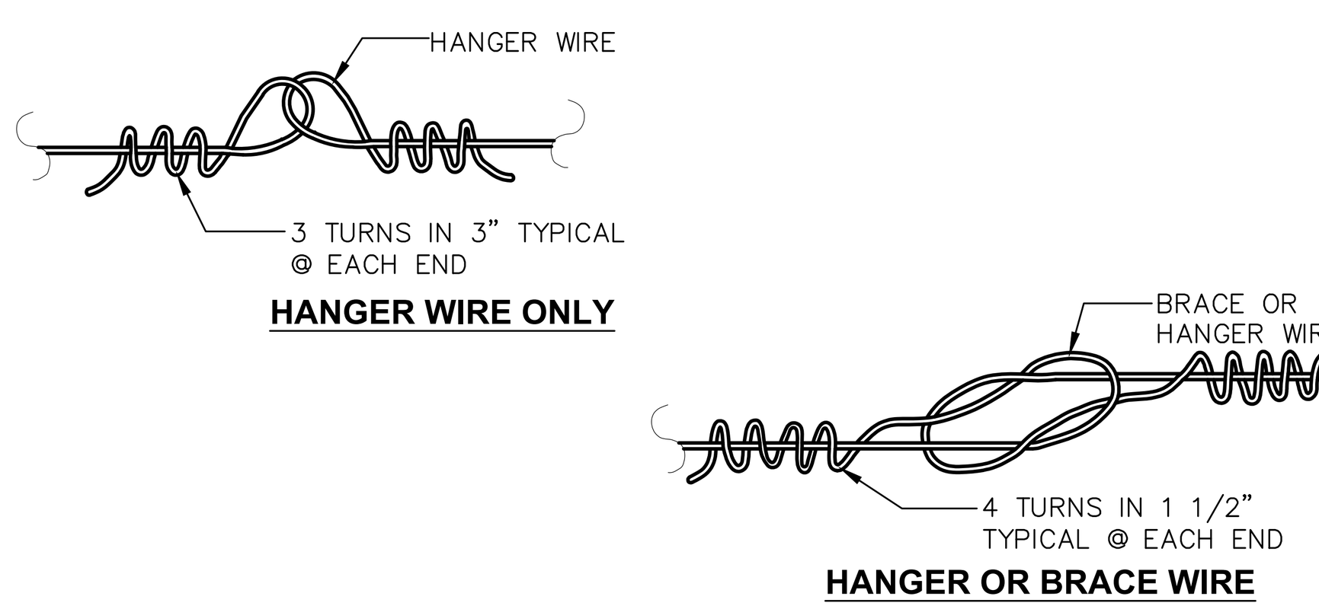
TUBE STRUT

NOTES:

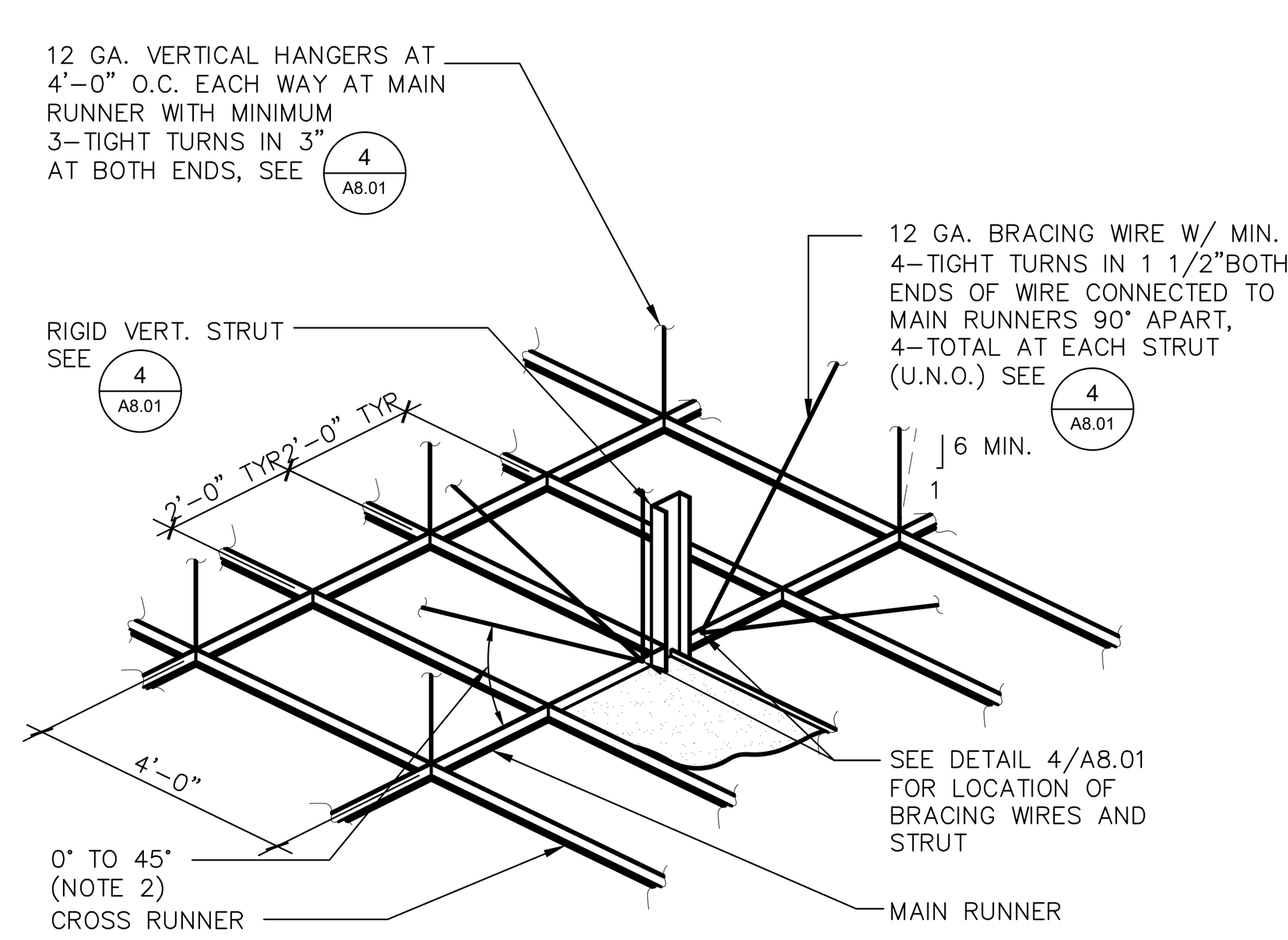
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE PAGE 5.50 FOR ADDITIONAL INFORMATION.

6 A8.01 **STRUT CONNECTION TO SAWN TIMBER WITHOUT GYPSUM BOARD**
REFERENCE: DSA IR 25-2.13 DETAIL 5.60 SCALE: 1 1/2" = 1'-0"

NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.



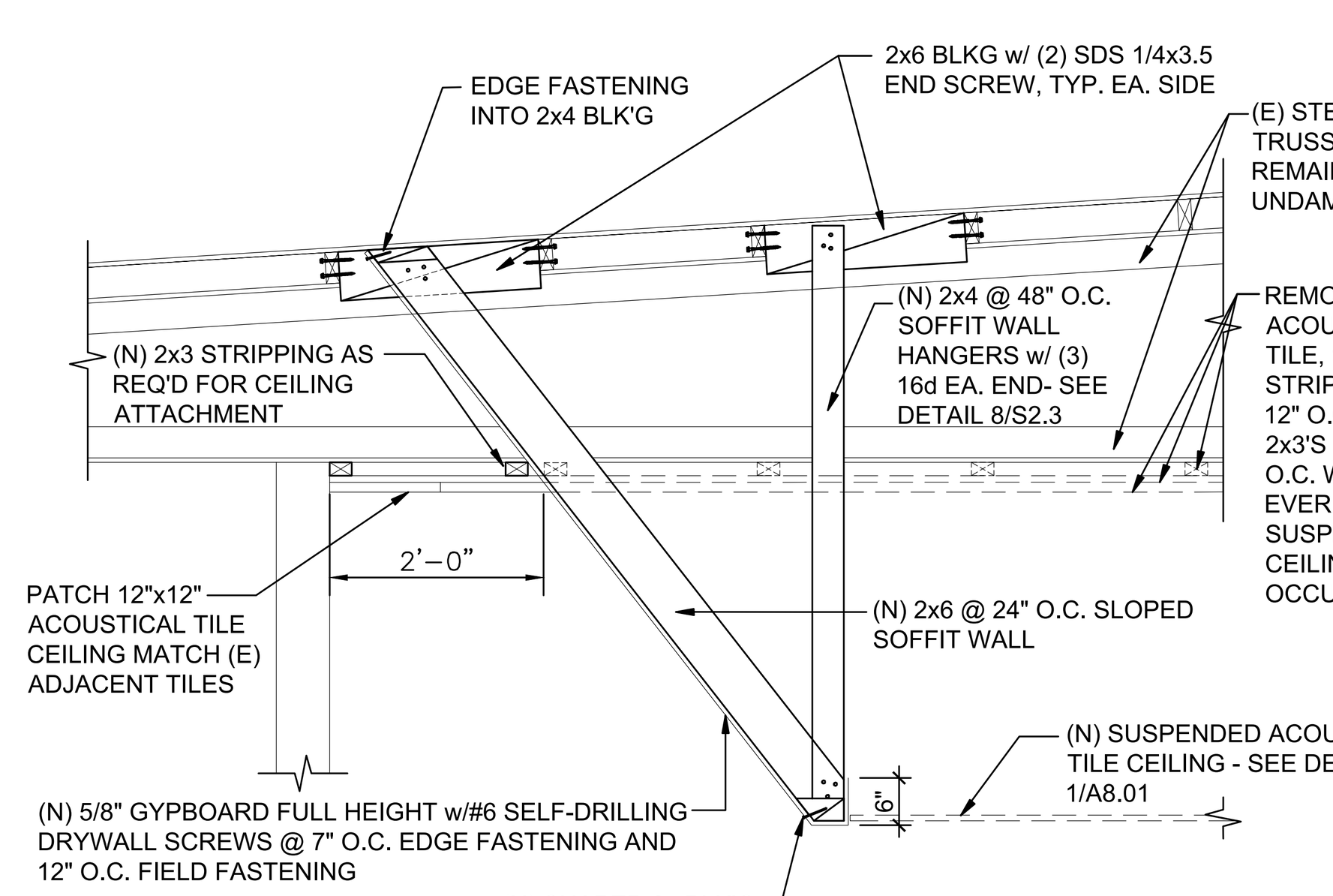
10 A8.01 **TYP. WIRE TIE**
SCALE: 6" = 1'-0"



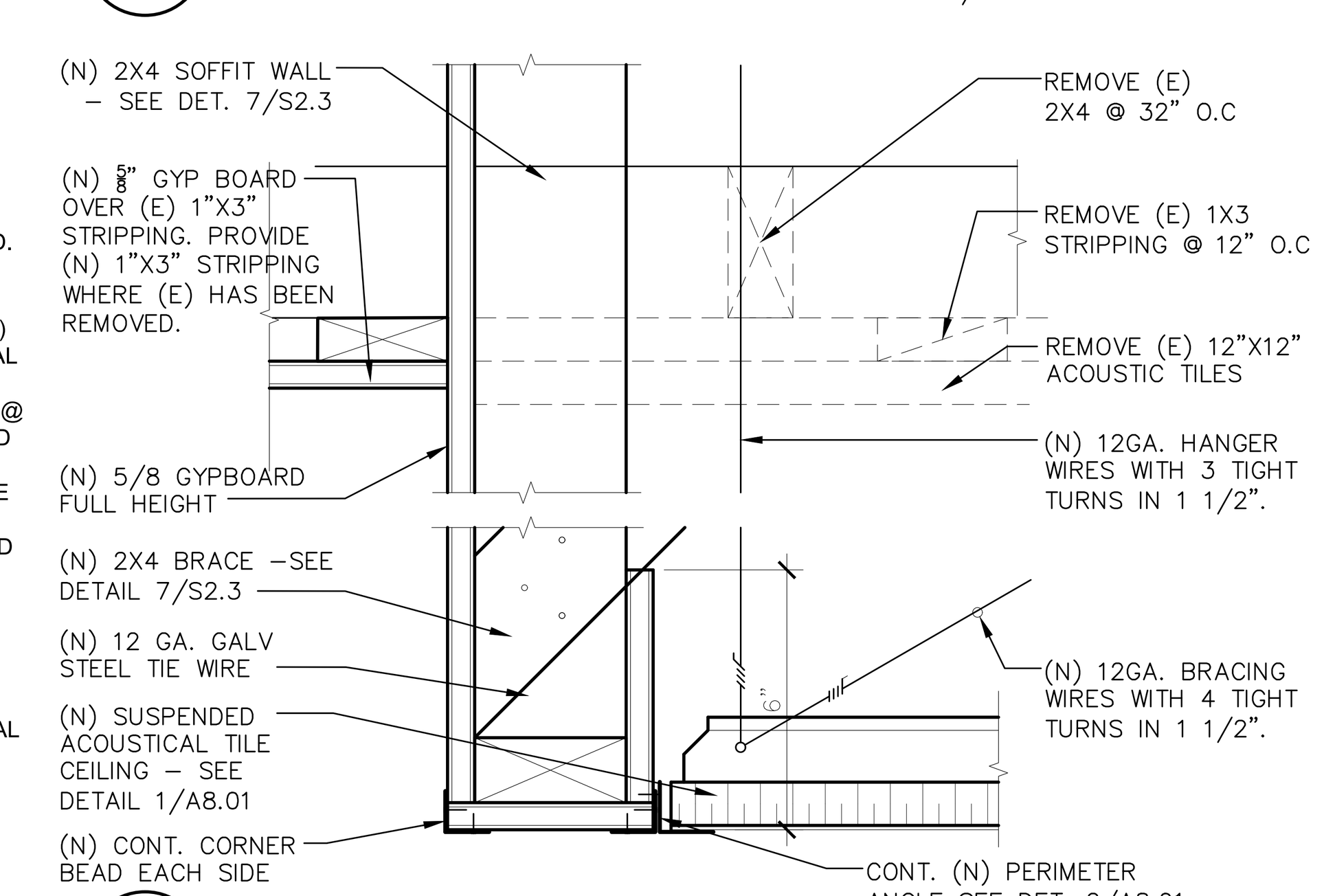
NOTES:

1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

3 A8.01 **SUSPENDED CEILING - SUSPENSION AND BRACING ASSEMBLY**
REFERENCE: DSA IR 25-2.13 DETAIL 2.35 SCALE: 3/8" = 1'-0"



11 A8.01 **T-BAR CEILING @ SLOPPED SOFFIT WALL**
SCALE: 1/2" = 1'-0"



7 A8.01 **T-BAR CEILING AT LIGHT WELL**
SCALE: 3" = 1'-0"

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
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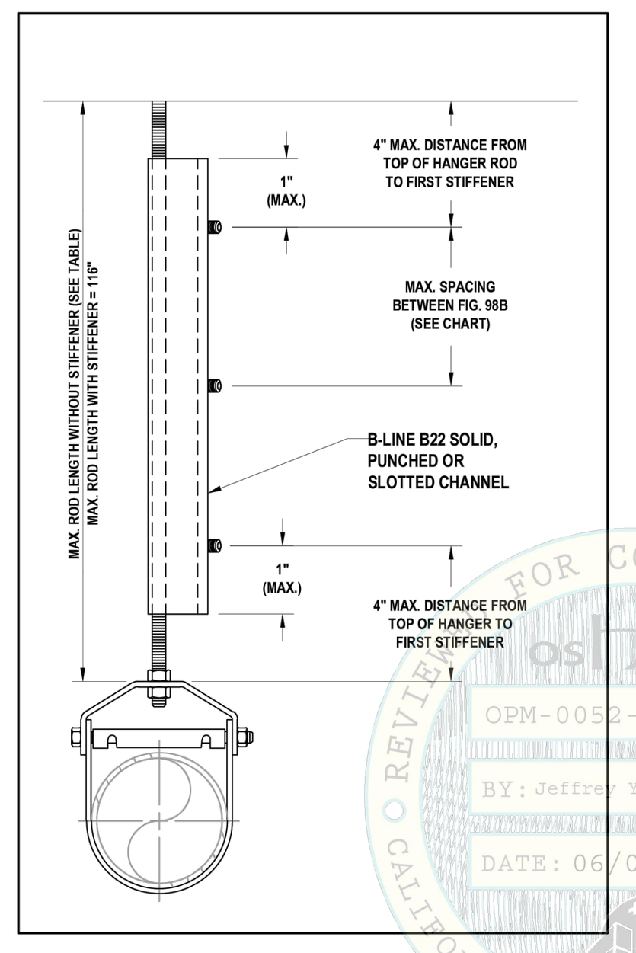
INTERIOR DETAILS

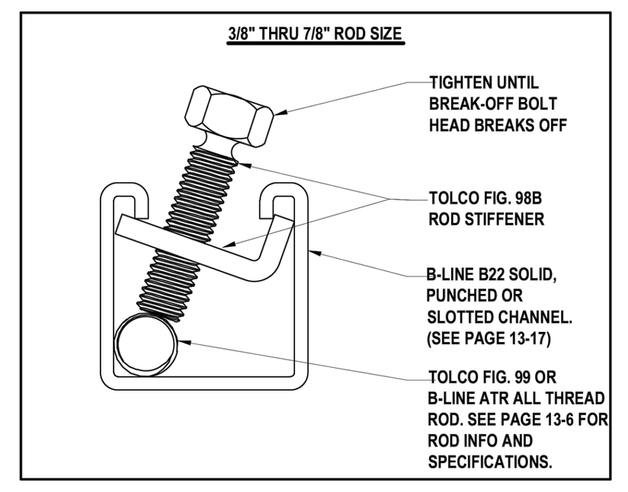
Job No.: **5526**

Sheet No.: **A8.01**

Release: Addendum 2 1 9/9/2022

TOLCO FIG. 98B ROD STIFFENER





ROD SIZE	MAX. ROD LENGTH WITHOUT ROD STIFFENER	MAX. COMPRESSION FORCE WITHOUT STIFFENER	MAX. SPACING BETWEEN TOLCO FIG. 98	MAX. COMPRESSION FORCE WITH STIFFENER
3/8"	18"	410	13"	1246
1/2"	25"	730	18"	2105
5/8"	31"	1160	23"	3187
3/4"	37"	1690	28"	4493
7/8"	43"	2320	33"	6021

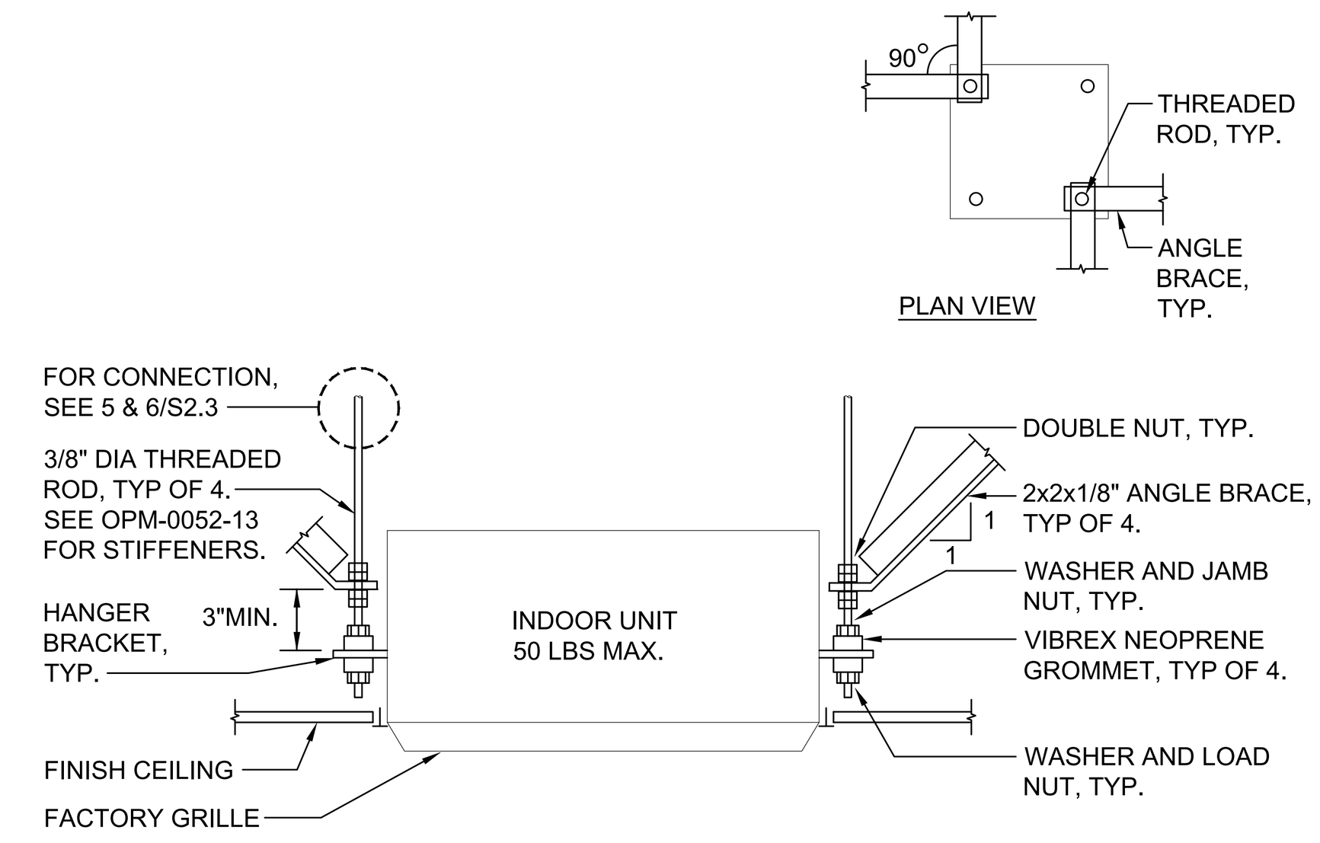
NOTES:

1.) ROD STIFFENERS ARE REQUIRED ONLY ON VERTICAL STRUT COMPONENT OF THE SEISMIC BRACE SYSTEM ON HANGER AND TRAPEZE ASSEMBLIES THAT HAVE SEISMIC BRACING BRACING ATTACHED AT OR WITHIN 6" OF THE ROD. A MINIMUM OF TWO ROD STIFFENERS (TOLCO FIG. 98B) MUST BE INSTALLED.
2.) DETAIL APPLIES TO ALL HUNG UTILITIES INCLUDING SINGLE HUNG UTILITIES, TRAPEZE HUNG UTILITIES, AND HUNG EQUIPMENT.
3.) AN EXCEPTION IS THE USE OF TWO OPPOSING RIGID BRACES AT THE SAME LOCATION. FOR INDIVIDUALLY HUNG PIPE THE TWO OPPOSING RIGID BRACES MUST BE AT THE SAME HANGER ROD; TOTAL OF TWO (2) FOR TRANSVERSE, OR TWO (2) FOR LONGITUDINAL. FOR A TRAPEZE HANGER THE TWO OPPOSING RIGID BRACES MUST BE AT THE SAME HANGER ROD; TOTAL OF TWO (2) FOR TRANSVERSE, OR FOUR (4) FOR LONGITUDINAL. THE TWO OPPOSING BRACES MUST BE AT THE SAME ANGLE FROM HORIZONTAL AND WITHIN 5-DEGREES OF 180 DEGREES FROM EACH OTHER. IN THIS CASE NO STIFFENING OF VERTICAL ROD IS NECESSARY.
4.) MATERIAL SPECIFICATIONS FOR TOLCO FIG. 98B, BODY: ASTM A-1011 CS TYPE B SAE; BREAK-OFF BOLT: 1035 (AISI-SAE) CASE HARDENED TO 0.015 MIN. DEPTH THRU HARDENED @ 45-55 RC FROM ANNEALED CONDITION.

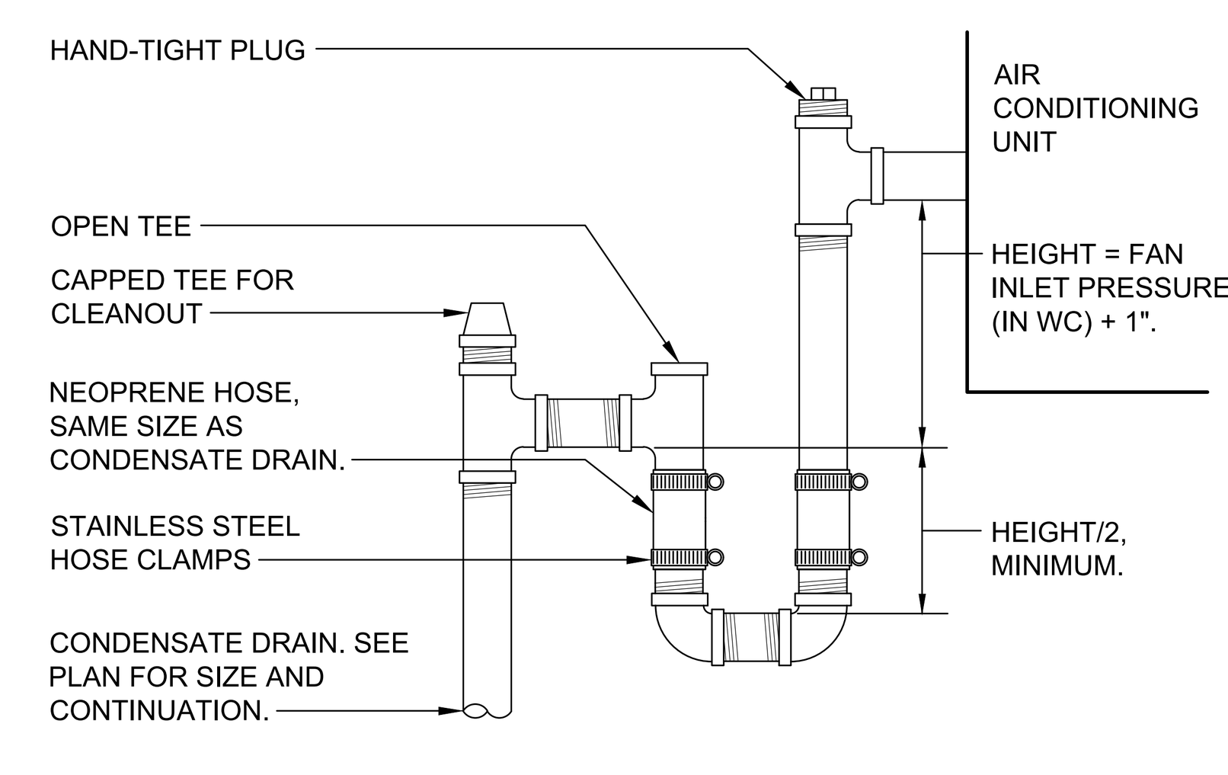
EATON'S B-LINE BUSINESS
509 WEST MONROE STREET | HIGHLAND, IL 62249
P: (800) 851-7415 | F: (800) 356 1438

Structural Engineer: Mohammad Hariri
California SE No. S3545

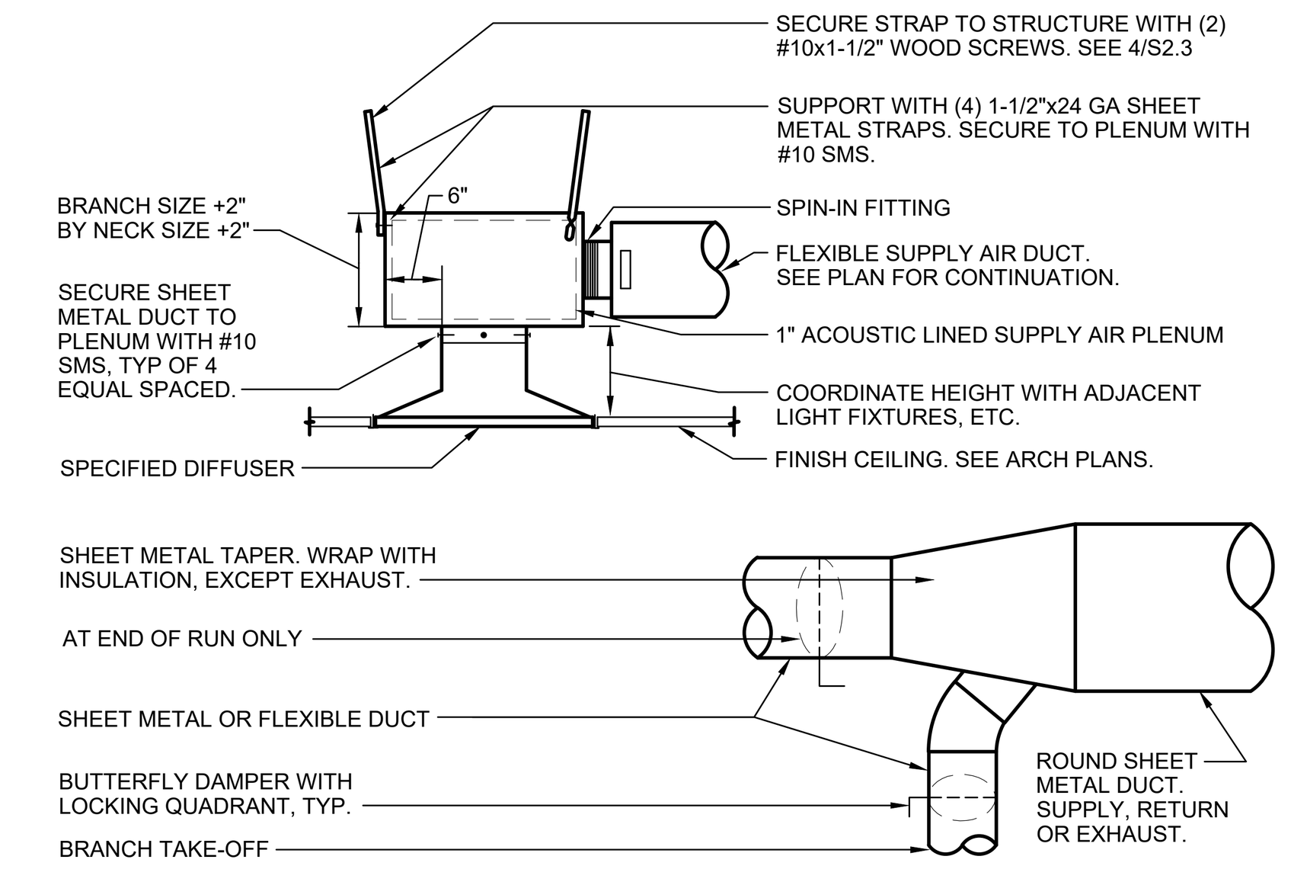
PAGE: 12-17
DATE: NOVEMBER 29, 2016



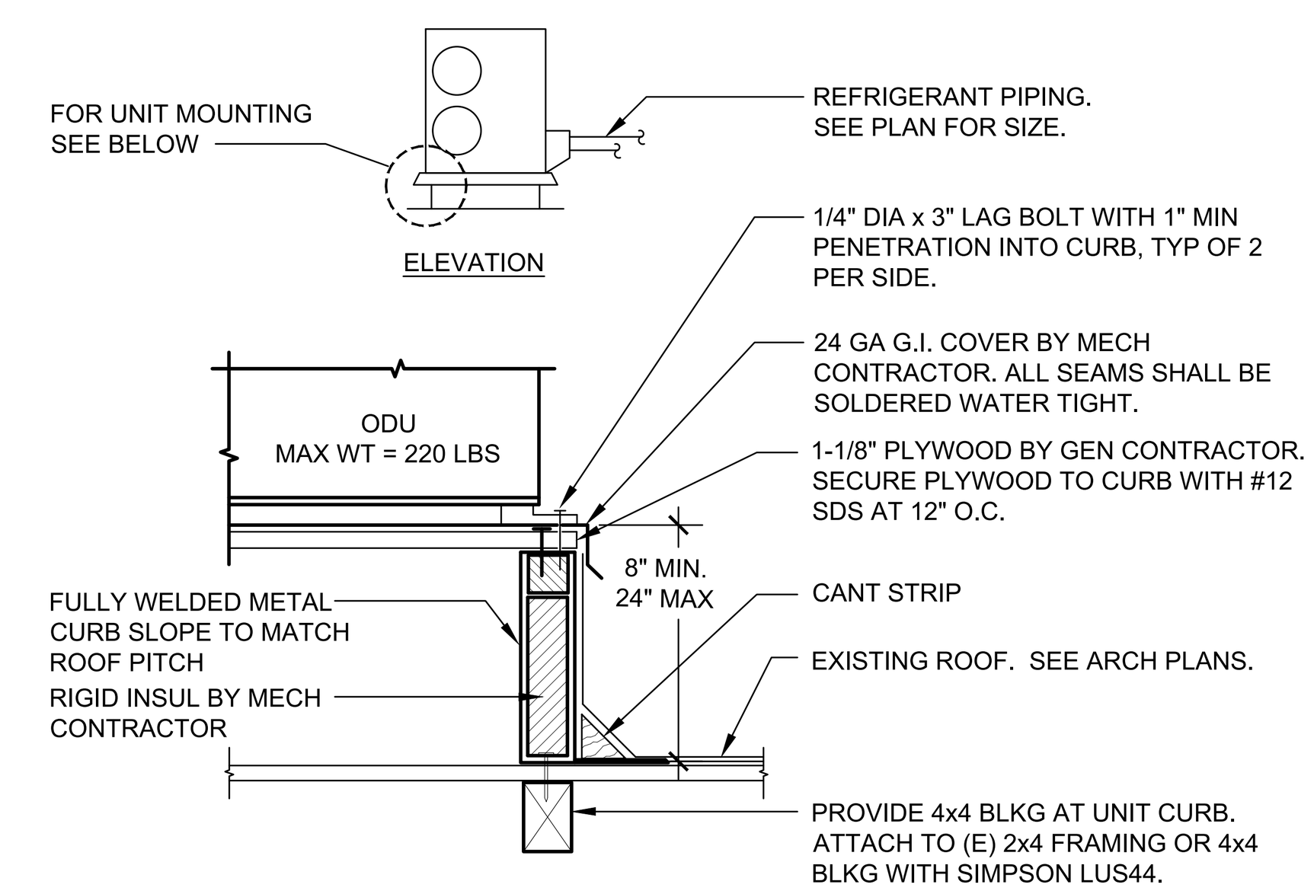
11 INDOOR UNIT - CEILING
M0.11 SCALE: N.T.S.



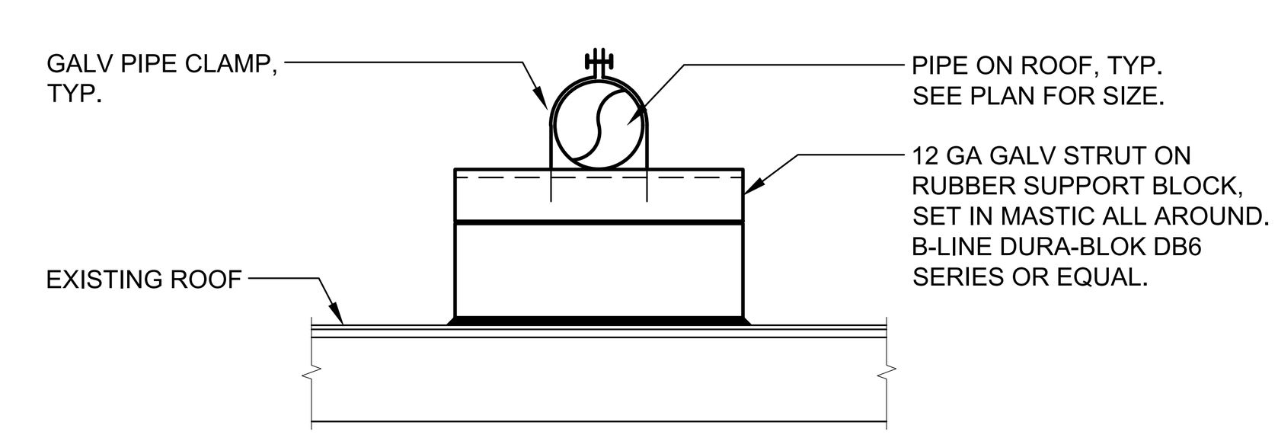
6 CONDENSATE DRAIN CONNECTION - DRAW THRU
M0.11 SCALE: N.T.S.



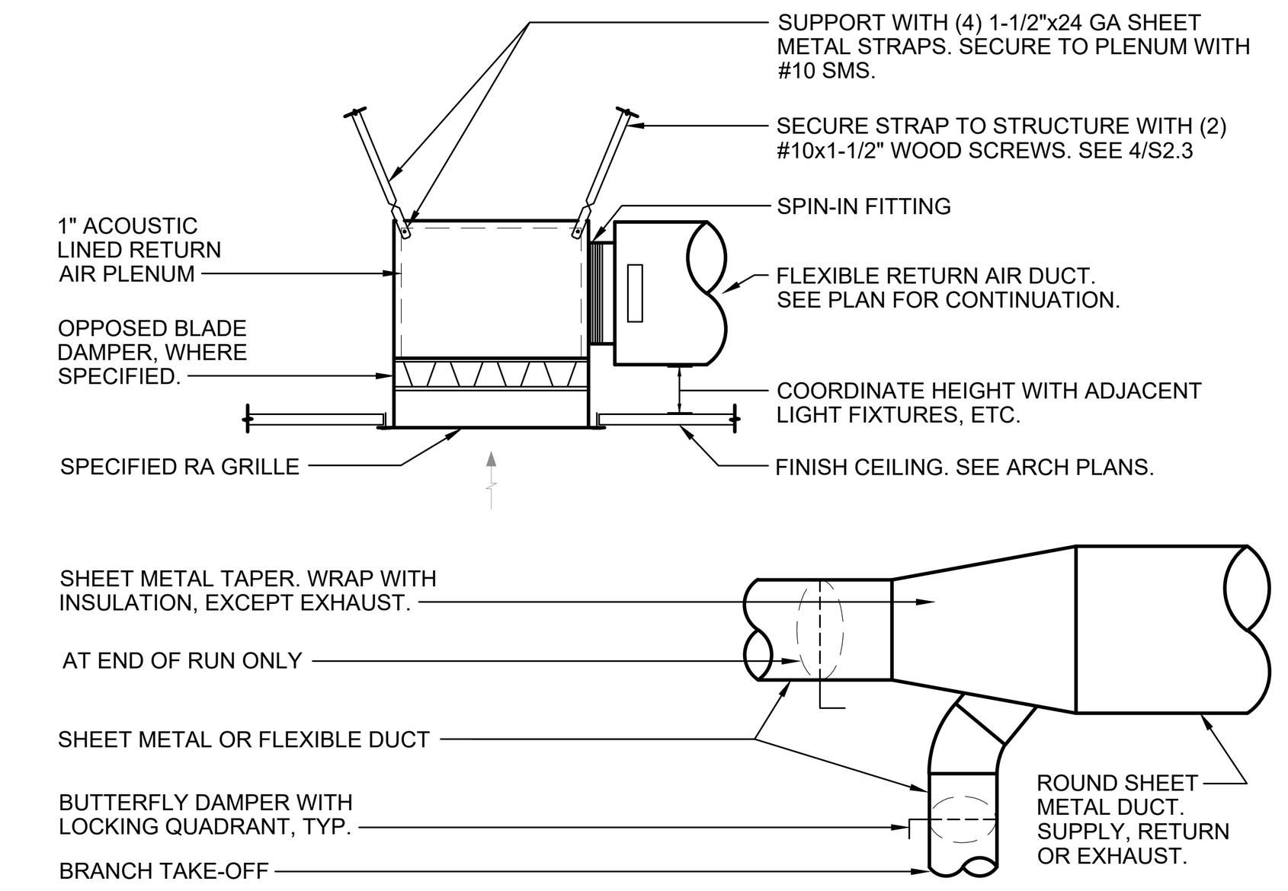
1 TYPICAL SUPPLY AIR DEVICE - BRANCH DUCT
M0.11 SCALE: N.T.S.



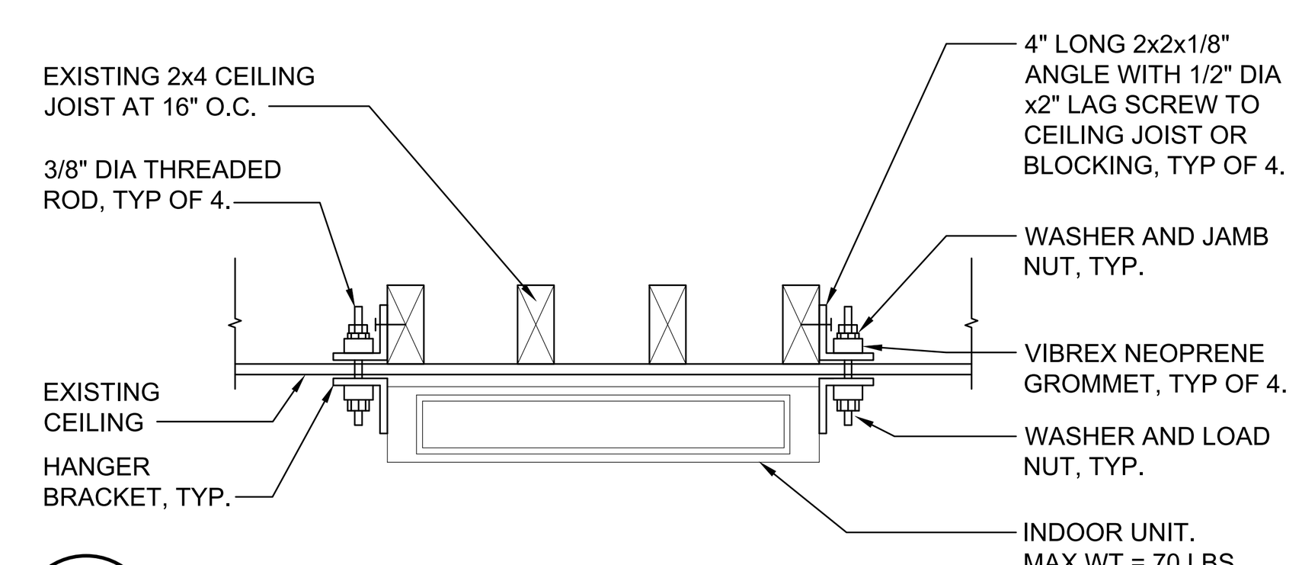
12 OUTDOOR UNIT
M0.11 SCALE: N.T.S.



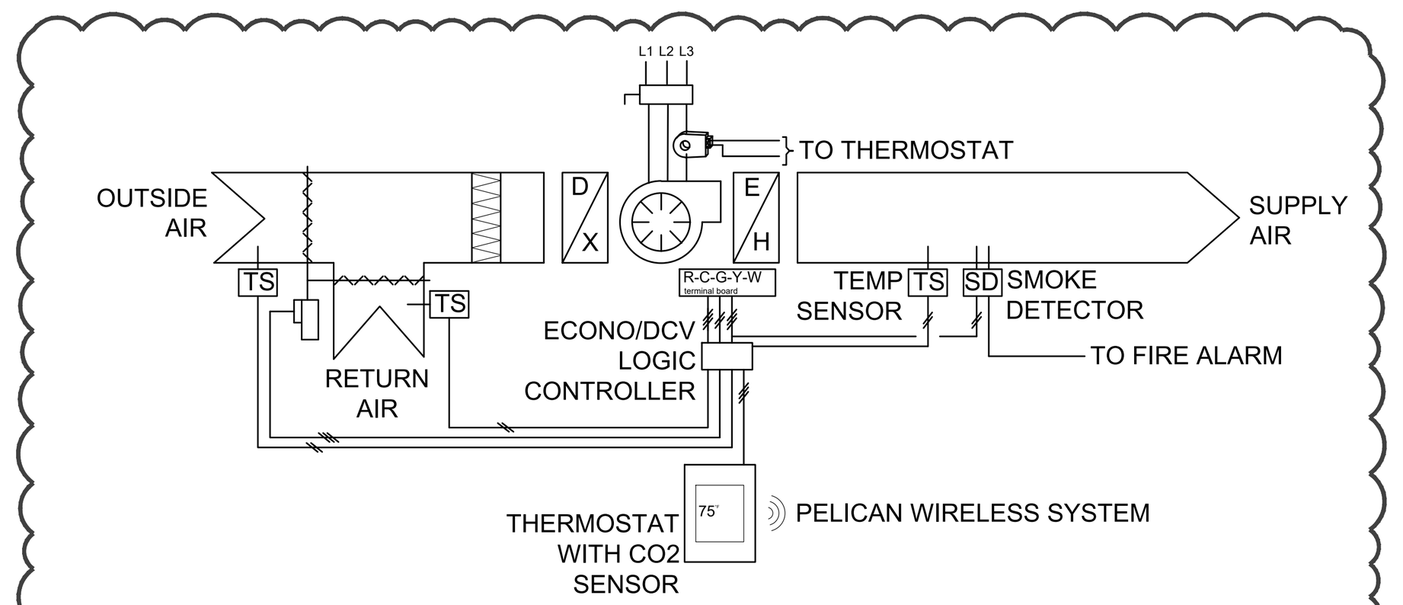
7 PIPE SUPPORT - ROOF
M0.11 SCALE: N.T.S.



2 TYPICAL RETURN/EXHAUST AIR DEVICE - BRANCH DUCT
M0.11 SCALE: N.T.S.

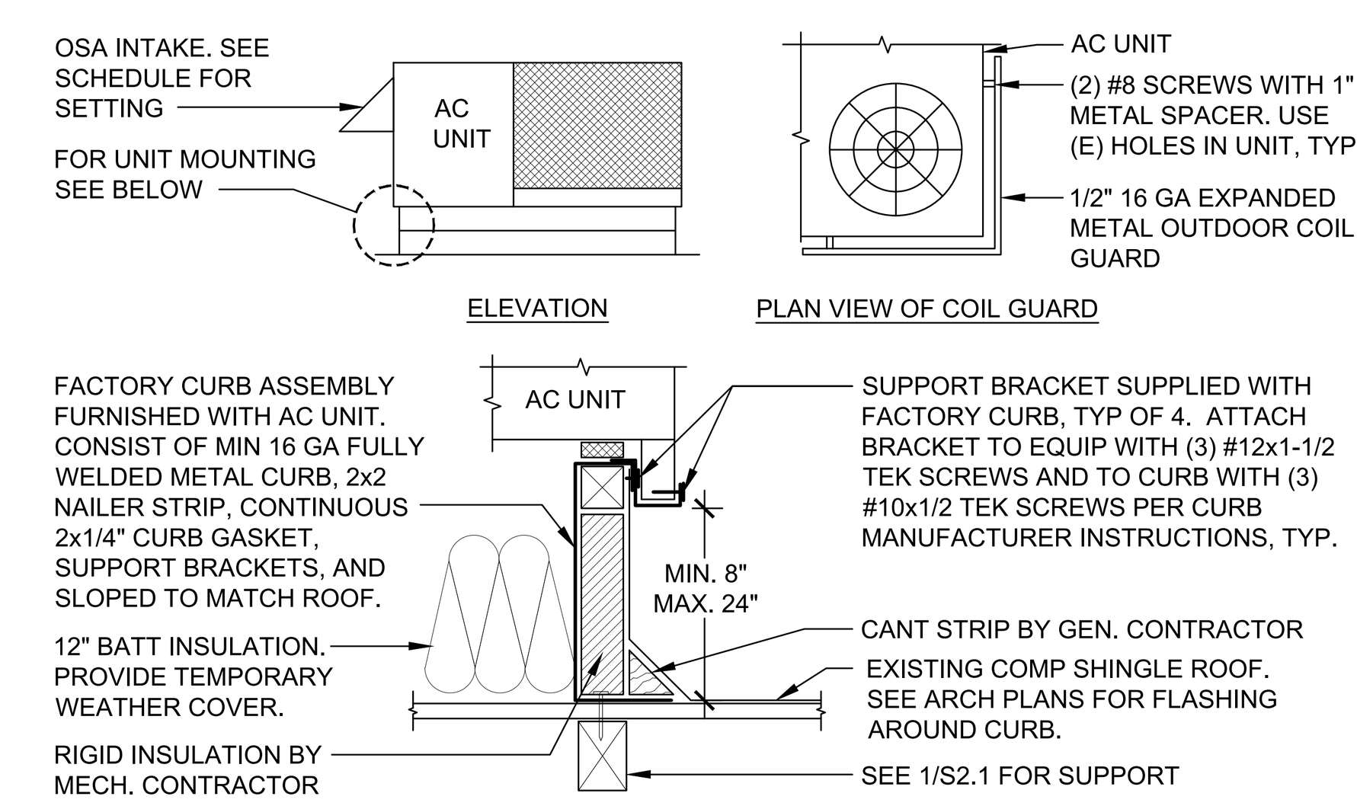


13 INDOOR UNIT - CEILING
M0.11 SCALE: N.T.S.



NOTES:
1. LINE VOLTAGE AND CONDUIT BY DIVISION 26
2. UNIT EQUIP WITH 0-10 VDC ECONOMIZER ACTUATOR AND DAMPERS.
3. ECONOMIZER LOGIC CONTROLLER KIT TO INCLUDE CONTROLLER AND TEMPERATURE SENSORS. PELICAN WIRELESS PEARL.
4. THERMOSTAT WITH INTEGRATED CO2 SENSOR. CONTRACTOR TO INSTALL OWNER FURNISHED PELICAN WIRELESS THERMOSTAT.
5. CURRENT SENSOR. VERIS H6ECM
6. SEE EQUIPMENT SCHEDULE FOR UNITS REQUIRED TO HAVE SMOKE DETECTORS.

8 CONTROL SCHEMATIC - HEAT PUMP
M0.11 SCALE: N.T.S.



3 AC UNIT MOUNTING
M0.11 SCALE: N.T.S.

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
################

Project Name:

HVAC REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

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Sheet Title:

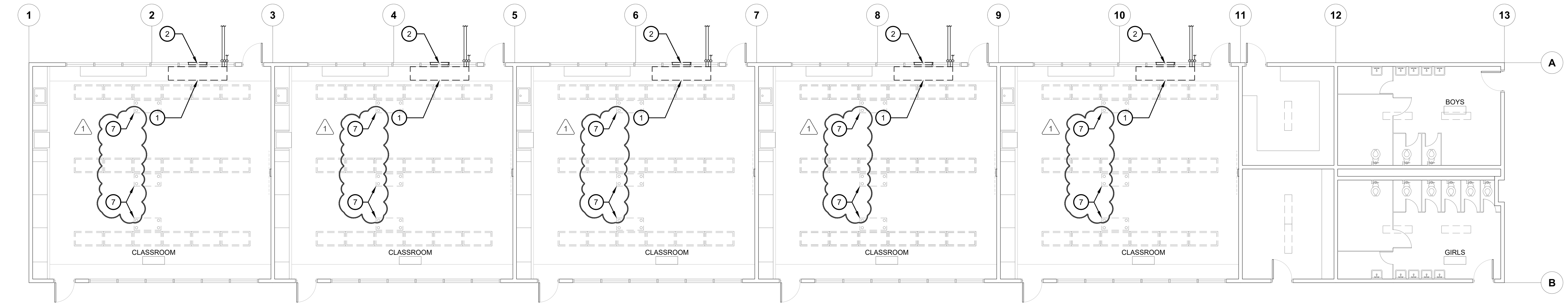
DETAILS

Job No.: **5526**

Sheet No.: **M0.11**

Release: Addendum 2 △1 9/9/2022

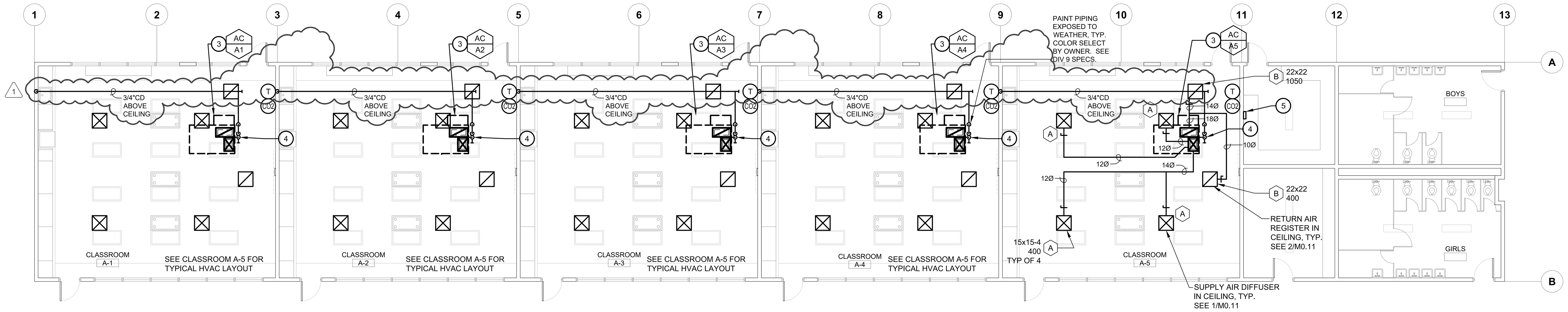
1" = 50'-0"
1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1/8" = 1'-0"
1/4" = 1'-0"



MECHANICAL PLAN - BLDG A - DEMO

HVAC REPLACEMENT

SCALE: 1/8" = 1'



MECHANICAL PLAN - BLDG A - IMPROVEMENTS

HVAC REPLACEMENT

SCALE: 1/8" = 1'

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW GRADE, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
5. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
6. NOT USED
7. EXISTING T-BAR CEILING TO BE REMOVED AND REPLACED. SEE ARCH PLANS. DISCONNECT AND REMOVE ALL EXISTING CEILING IONIZERS. CLEAN IONIZERS AND RE-INSTALL IN NEW CEILING AS CLOSE AS POSSIBLE TO EXISTING LOCATION, TYP.

MECHANICAL LEGEND

SYMBOL	ABBR	DESCRIPTION	SYMBOL	DESCRIPTION	ABBR
	S. W. D.	SOIL, WASTE OR DRAIN	AC 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION / NUMBER	AC-1
	V	VENT			
	CW	DOMESTIC COLD WATER	A 10x10-3 120	GRILLE DESIGNATION / NECK SIZE & BLOW / CFM	
	HW	DOMESTIC HOT WATER			
	HWR	DOMESTIC HOT WATER RETURN		SUPPLY AIR	SA
GAS		GAS MAIN BY GAS UTILITY COMPANY		RETURN AIR	RA
G	G	LOW PRESSURE NATURAL GAS		EXHAUST AIR	EXH
RWL	RWL	RAIN WATER LEADER		ACOUSTIC LINED DUCT	(L)
OL	OL	OVERFLOW LEADER		DUCT RISER	
CD	CD	CONDENSATE DRAIN		DUCT DROP	
D	D	DRAIN		SQUARE TO ROUND FITTING	
IW	IW	INDIRECT WASTE		FIRE DAMPER	FD
	FCO	FLOOR CLEANOUT		FIRE/SMOKE DAMPER	FSD
	COTG	CLEANOUT TO GRADE	SD	DUCT SMOKE DETECTOR	SD
	WCO	WALL CLEANOUT		VOLUME CONTROL DAMPER	VCD
	VTR	VENT THROUGH ROOF	T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
	GV OR SOV	GATE OR SHUT - OFF VALVE	CO2	CARBON DIOXIDE SENSOR	
	BV	BALL VALVE	CHWR	CHILLED/HOT WATER RETURN	CHWR
	CV	CHECK VALVE	CHWS	CHILLED/HOT WATER SUPPLY	CHWS
	STR	STRAINER	RL	REFRIGERANT LIQUID	RL
		UNION	RS	REFRIGERANT SUCTION	RS
		ELBOW UP		ABOVE FINISH FLOOR	AFF
		ELBOW DOWN		EXISTING	(E)
	RED	REDUCER		(E) TO BE REMOVED	DEMO
	HB	HOSE BIBB		NEW	(N)
	PP	PETES PLUG		OUTSIDE AIR	OSA
	PRV	PRESSURE RELIEF VALVE	X	POINT OF CONNECTION	POC
		CAP		TYPICAL	TYP

G:\2022frs\22-5526 BCSD Wayside ES\Sheets\M2.11 MECHANICAL PLAN - BLDG A.dwg LISA LUM 5/2/24

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

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MECHANICAL
STATE OF CALIFORNIA

Sheet Title:

MECHANICAL PLAN - BLDG A

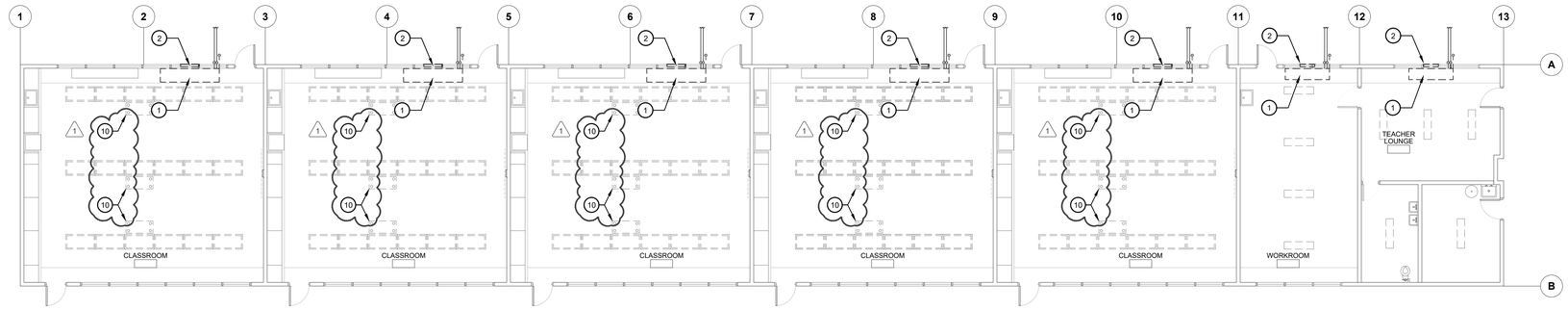
Job No.:

5526

Sheet No.:

M2.11

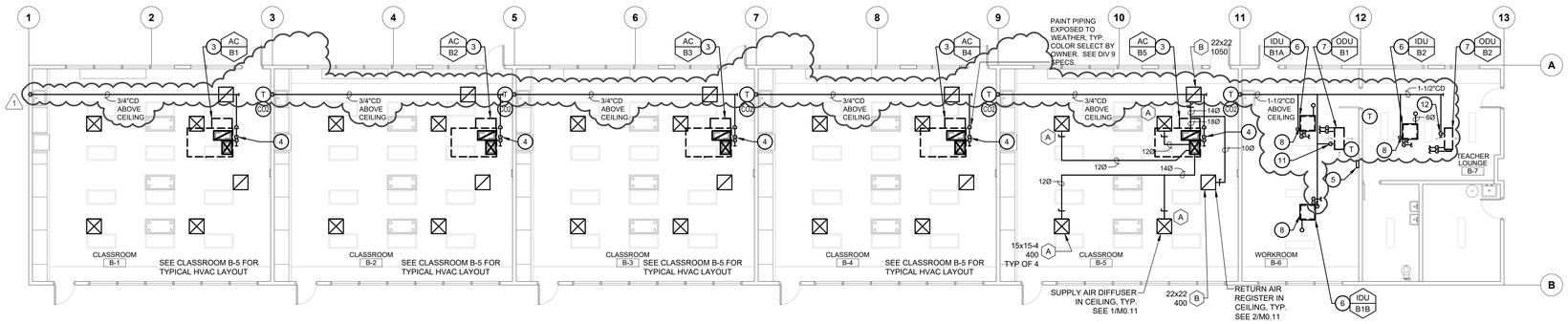
Release: Addendum 2 1 9/9/2022



MECHANICAL PLAN - BLDG B - DEMO

HVAC REPLACEMENT

SCALE: 1/8" = 1'



MECHANICAL PLAN - BLDG B - IMPROVEMENTS

HVAC REPLACEMENT

SCALE: 1/8" = 1'

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW GRADE, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
5. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
6. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF, TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 11/M0.11
7. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 12/M0.11
8. INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
9. NOT USED
10. EXISTING T-BAR CEILING TO BE REMOVED AND REPLACED. SEE ARCH PLANS. DISCONNECT AND REMOVE ALL EXISTING CEILING IONIZERS. CLEAN IONIZERS AND RE-INSTALL IN NEW CEILING AS CLOSE AS POSSIBLE TO EXISTING LOCATION, TYP.
11. CONNECT 1"CD TO OUTDOOR UNIT, DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
12. CONNECT 3/4"CD TO OUTDOOR UNIT, DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.

MECHANICAL LEGEND

SYMBOL	ABBR	DESCRIPTION	SYMBOL	DESCRIPTION	ABBR
	S. W. D.	SOIL, WASTE OR DRAIN	AC 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	AC-1
	V	VENT			
	CW	DOMESTIC COLD WATER	A 10x10-3 120	GRILLE DESIGNATION NECK SIZE & BLOW CFM	
	HW	DOMESTIC HOT WATER			
	HWR	DOMESTIC HOT WATER RETURN		SUPPLY AIR	SA
GAS		GAS MAIN BY GAS UTILITY COMPANY		RETURN AIR	RA
G	G	LOW PRESSURE NATURAL GAS		EXHAUST AIR	EXH
RWL	RWL	RAIN WATER LEADER		ACOUSTIC LINED DUCT	(L)
OL	OL	OVERFLOW LEADER		DUCT RISER	
CD	CD	CONDENSATE DRAIN		DUCT DROP	
D	D	DRAIN		SQUARE TO ROUND FITTING	
IW	IW	INDIRECT WASTE		FIRE DAMPER	FD
	FCO	FLOOR CLEANOUT		FIRE/SMOKE DAMPER	FSD
	COTG	CLEANOUT TO GRADE	SD	DUCT SMOKE DETECTOR	SD
	WCO	WALL CLEANOUT		VOLUME CONTROL DAMPER	VCD
	VTR	VENT THROUGH ROOF	T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
	GV OR SOV	GATE OR SHUT - OFF VALVE	CO2	CARBON DIOXIDE SENSOR	
	BV	BALL VALVE	CHWR	CHILLED/HOT WATER RETURN	CHWR
	CV	CHECK VALVE	CHWS	CHILLED/HOT WATER SUPPLY	CHWS
	STR	STRAINER	RL	REFRIGERANT LIQUID	RL
		UNION	RS	REFRIGERANT SUCTION	RS
		ELBOW UP		ABOVE FINISH FLOOR	AFF
		ELBOW DOWN		EXISTING	(E)
	RED	REDUCER		(E) TO BE REMOVED	DEMO
	HB	HOSE BIBB		NEW	(N)
	PP	PETES PLUG		OUTSIDE AIR	OSA
	PRV	PRESSURE RELIEF VALVE	X	POINT OF CONNECTION	POC
		CAP		TYPICAL	TYP

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
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BAKERSFIELD, CA 93307

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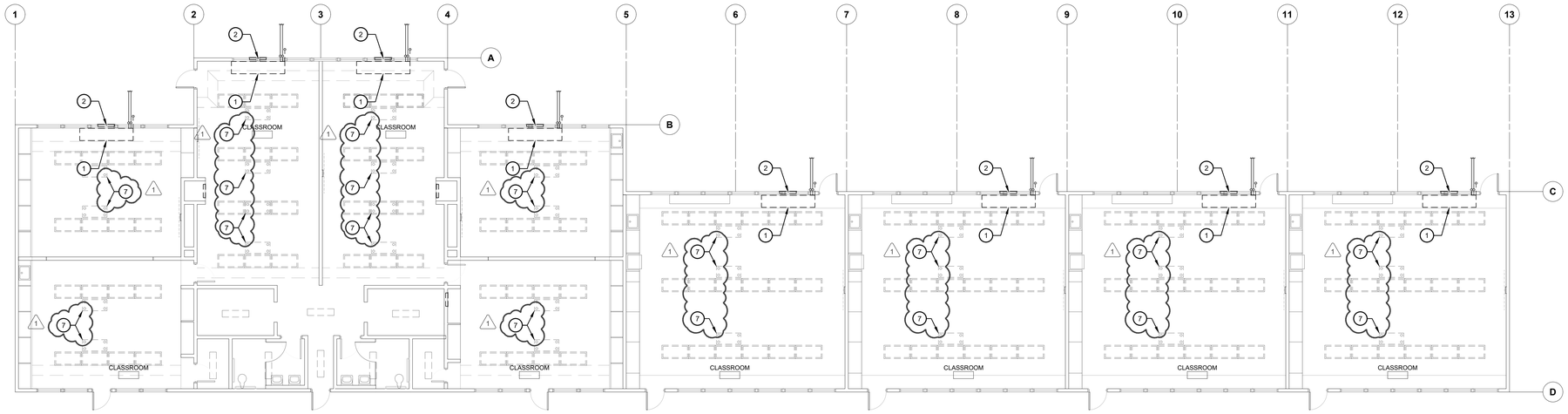
Sheet Title:

MECHANICAL PLAN - BLDG B

Job No.: **5526**

Sheet No.: **M2.21**

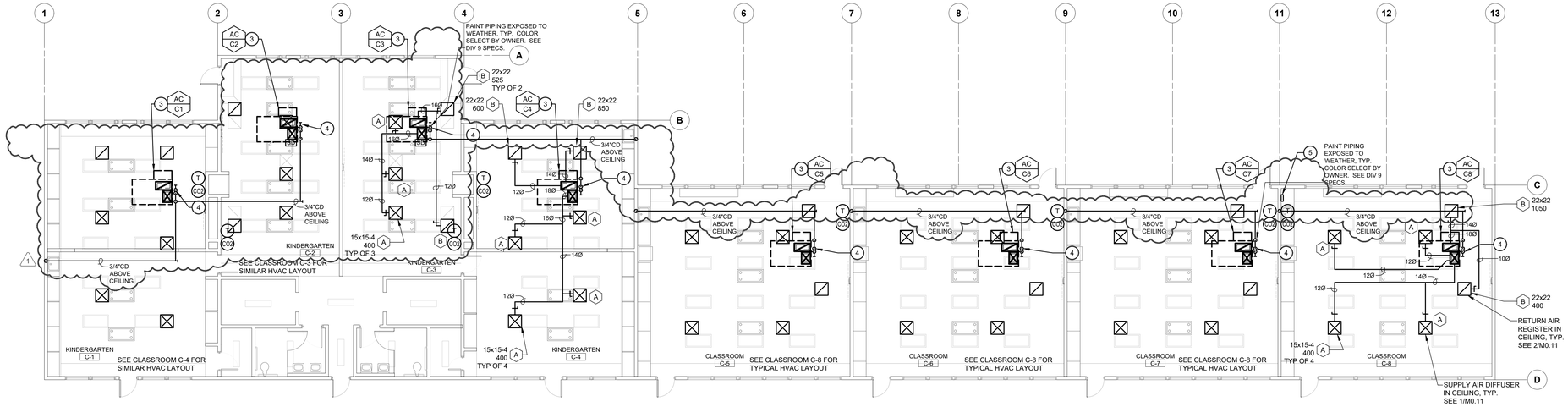
Release: Addendum 2 (1) 9/9/2022



MECHANICAL PLAN - BLDG C - DEMO

HVAC REPLACEMENT

SCALE: 1/8" = 1'



MECHANICAL PLAN - BLDG C - IMPROVEMENTS

HVAC REPLACEMENT

SCALE: 1/8" = 1'

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW GRADE, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
5. HVAC WIRELESS GATEWAY. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET AND ETHERNET CONNECTION.
6. NOT USED
7. EXISTING T-BAR CEILING TO BE REMOVED AND REPLACED. SEE ARCH PLANS. DISCONNECT AND REMOVE ALL EXISTING CEILING IONIZERS. CLEAN IONIZERS AND RE-INSTALL IN NEW CEILING AS CLOSE AS POSSIBLE TO EXISTING LOCATION, TYP.

LEGEND

SYMBOL	DESCRIPTION	ABBR
AC 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	AC-1
A 10x10-3 120	GRILLE DESIGNATION NECK SIZE & BLOW CFM	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EXH
	ACOUSTIC LINED DUCT	(L)
	DUCT RISER	
	DUCT DROP	
	SQUARE TO ROUND FITTING	
	FIRE DAMPER	FD
	FIRE/SMOKE DAMPER	FSD
SD	DUCT SMOKE DETECTOR	SD
	VOLUME CONTROL DAMPER	VCD
T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
202	CARBON DIOXIDE SENSOR	
CHWR	CHILLED/HOT WATER RETURN	CHWR
CHWS	CHILLED/HOT WATER SUPPLY	CHWS
RL	REFRIGERANT LIQUID	RL
RS	REFRIGERANT SUCTION	RS
	ABOVE FINISH FLOOR	AFF
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
X	POINT OF CONNECTION	POC
	TYPICAL	TYP

LEGEND

SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
	S. W. D.	SOIL, WASTE OR DRAIN		WCO	WALL CLEANOUT
V	V	VENT		VTR	VENT THROUGH ROOF
CW	CW	DOMESTIC COLD WATER		GV OR SOV	GATE OR SHUT - OFF VALVE
HW	HW	DOMESTIC HOT WATER		BV	BALL VALVE
HWR	HWR	DOMESTIC HOT WATER RETURN		CV	CHECK VALVE
GAS		GAS MAIN BY GAS UTILITY COMPANY		STR	STRAINER
G	G	LOW PRESSURE NATURAL GAS			UNION
RWL	RWL	RAIN WATER LEADER			ELBOW UP
OL	OL	OVERFLOW LEADER			ELBOW DOWN
CD	CD	CONDENSATE DRAIN		RED	REDUCER
D	D	DRAIN		HB	HOSE BIBB
IW	IW	INDIRECT WASTE		PP	PETES PLUG
FCO	FCO	FLOOR CLEANOUT		PRV	PRESSURE RELIEF VALVE
COTG	COTG	CLEANOUT TO GRADE			CAP

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

Project Address:

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STATE OF CALIFORNIA

Sheet Title:

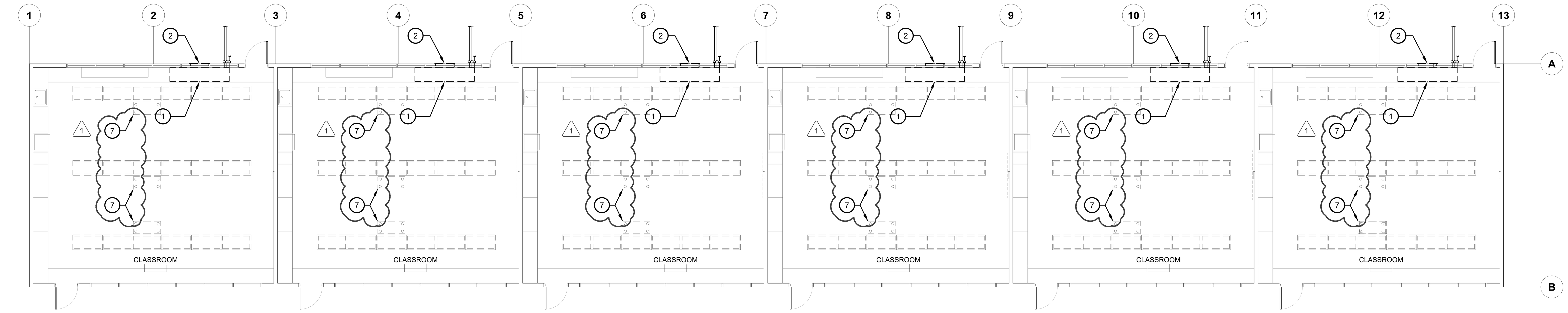
MECHANICAL PLAN - BLDG C

Job No.: **5526**

Sheet No.: **M2.31**

Release: Addendum 2 (1) 9/9/2022

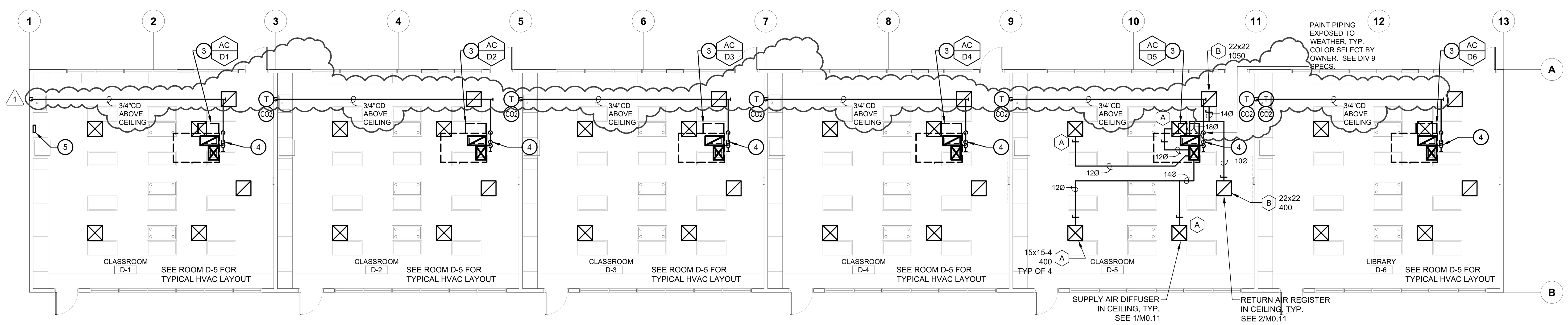
5/2/24



MECHANICAL PLAN - BLDG D - DEMO

HVAC REPLACEMENT

SCALE: 1/8" = 1'



MECHANICAL PLAN - BLDG D - IMPROVEMENTS

HVAC REPLACEMENT

SCALE: 1/8" = 1'

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW GRADE, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
5. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
6. NOT USED
7. EXISTING T-BAR CEILING TO BE REMOVED AND REPLACED. SEE ARCH PLANS. DISCONNECT AND REMOVE ALL EXISTING CEILING IONIZERS. CLEAN IONIZERS AND RE-INSTALL IN NEW CEILING AS CLOSE AS POSSIBLE TO EXISTING LOCATION, TYP.

MECHANICAL LEGEND

SYMBOL	ABBR	DESCRIPTION	SYMBOL	DESCRIPTION	ABBR
	S. W. D.	SOIL, WASTE OR DRAIN	AC 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION / NUMBER	AC-1
	V	VENT			
	CW	DOMESTIC COLD WATER	A 10x10-3 120	GRILLE DESIGNATION / NECK SIZE & BLOW / CFM	
	HW	DOMESTIC HOT WATER			
	HWR	DOMESTIC HOT WATER RETURN		SUPPLY AIR	SA
GAS		GAS MAIN BY GAS UTILITY COMPANY		RETURN AIR	RA
G	G	LOW PRESSURE NATURAL GAS		EXHAUST AIR	EXH
RWL	RWL	RAIN WATER LEADER		ACOUSTIC LINED DUCT	(L)
OL	OL	OVERFLOW LEADER		DUCT RISER	
CD	CD	CONDENSATE DRAIN		DUCT DROP	
D	D	DRAIN		SQUARE TO ROUND FITTING	
IW	IW	INDIRECT WASTE		FIRE DAMPER	FD
	FCO	FLOOR CLEANOUT		FIRE/SMOKE DAMPER	FSD
	COTG	CLEANOUT TO GRADE	SD	DUCT SMOKE DETECTOR	SD
	WCO	WALL CLEANOUT		VOLUME CONTROL DAMPER	VCD
	VTR	VENT THROUGH ROOF	T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
	GV OR SOV	GATE OR SHUT - OFF VALVE	CO2	CARBON DIOXIDE SENSOR	
	BV	BALL VALVE	CHWR	CHILLED/HOT WATER RETURN	CHWR
	CV	CHECK VALVE	CHWS	CHILLED/HOT WATER SUPPLY	CHWS
	STR	STRAINER	RL	REFRIGERANT LIQUID	RL
		UNION	RS	REFRIGERANT SUCTION	RS
		ELBOW UP		ABOVE FINISH FLOOR	AFF
		ELBOW DOWN		EXISTING	(E)
	RED	REDUCER		(E) TO BE REMOVED	DEMO
	HB	HOSE BIBB		NEW	(N)
	PP	PETES PLUG		OUTSIDE AIR	OSA
	PRV	PRESSURE RELIEF VALVE		POINT OF CONNECTION	POC
		CAP		TYPICAL	TYP

G:\2022frs\22-5526 BCSD Wayside ES\Sheets\M2.41 MECHANICAL PLAN - BLDG D.dwg LISA LUM 5/2/24

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

Project Address:

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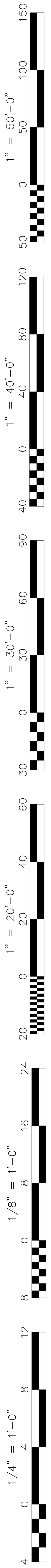
Sheet Title:

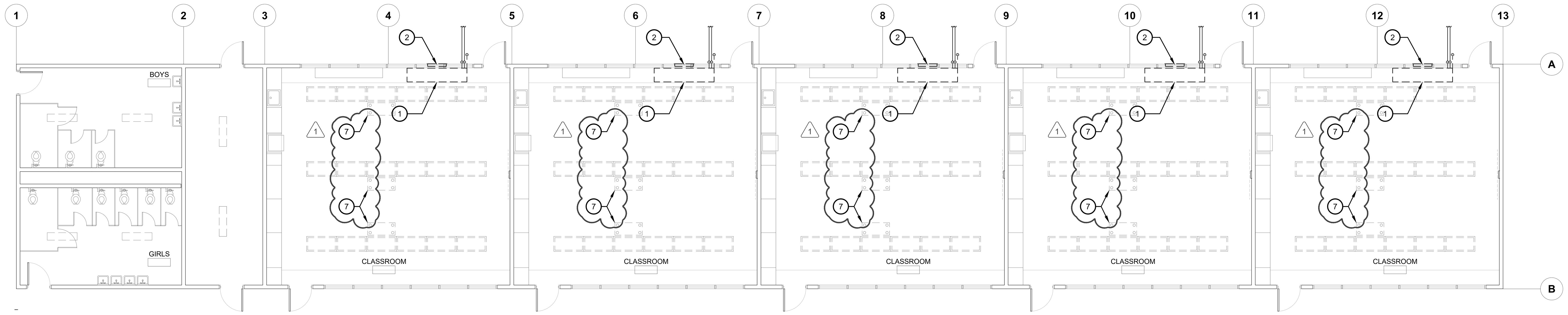
MECHANICAL PLAN - BLDG D

Job No.: 5526

Sheet No.: M2.41

Release: Addendum 2 9/9/2022

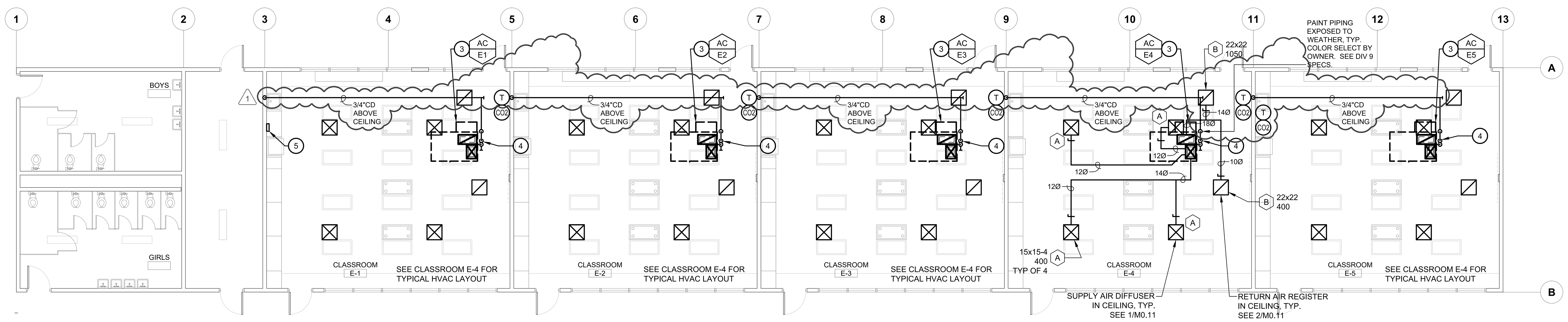




MECHANICAL PLAN - BLDG E - DEMO

HVAC REPLACEMENT

SCALE: 1/8" = 1'



MECHANICAL PLAN - BLDG E - IMPROVEMENTS

HVAC REPLACEMENT

SCALE: 1/8" = 1'

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW GRADE, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DROP DOWN THRU ROOF, AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH AND PAINT OPENINGS TO MATCH EXISTING SURFACES.
5. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
6. NOT USED
7. EXISTING T-BAR CEILING TO BE REMOVED AND REPLACED. SEE ARCH PLANS. DISCONNECT AND REMOVE ALL EXISTING CEILING IONIZERS. CLEAN IONIZERS AND RE-INSTALL IN NEW CEILING AS CLOSE AS POSSIBLE TO EXISTING LOCATION, TYP.

MECHANICAL LEGEND

SYMBOL	ABBR	DESCRIPTION	SYMBOL	DESCRIPTION	ABBR
	S. W. D.	SOIL, WASTE OR DRAIN	AC 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION / NUMBER	AC-1
	V	VENT			
	CW	DOMESTIC COLD WATER	A 10x10-3 120	GRILLE DESIGNATION / NECK SIZE & BLOW / CFM	
	HW	DOMESTIC HOT WATER			
	HWR	DOMESTIC HOT WATER RETURN		SUPPLY AIR	SA
GAS		GAS MAIN BY GAS UTILITY COMPANY		RETURN AIR	RA
G	G	LOW PRESSURE NATURAL GAS		EXHAUST AIR	EXH
RWL	RWL	RAIN WATER LEADER		ACOUSTIC LINED DUCT	(L)
OL	OL	OVERFLOW LEADER		DUCT RISER	
CD	CD	CONDENSATE DRAIN		DUCT DROP	
D	D	DRAIN		SQUARE TO ROUND FITTING	
IW	IW	INDIRECT WASTE		FIRE DAMPER	FD
	FCO	FLOOR CLEANOUT		FIRE/SMOKE DAMPER	FSD
	COTG	CLEANOUT TO GRADE	SD	DUCT SMOKE DETECTOR	SD
	WCO	WALL CLEANOUT		VOLUME CONTROL DAMPER	VCD
	VTR	VENT THROUGH ROOF	T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
	GV OR SOV	GATE OR SHUT - OFF VALVE	CO2	CARBON DIOXIDE SENSOR	
	BV	BALL VALVE	CHWR	CHILLED/HOT WATER RETURN	CHWR
	CV	CHECK VALVE	CHWS	CHILLED/HOT WATER SUPPLY	CHWS
	STR	STRAINER	RL	REFRIGERANT LIQUID	RL
		UNION	RS	REFRIGERANT SUCTION	RS
		ELBOW UP		ABOVE FINISH FLOOR	AFF
		ELBOW DOWN		EXISTING	(E)
	RED	REDUCER		(E) TO BE REMOVED	DEMO
	HB	HOSE BIBB		NEW	(N)
	PP	PETES PLUG		OUTSIDE AIR	OSA
	PRV	PRESSURE RELIEF VALVE	X	POINT OF CONNECTION	POC
		CAP		TYPICAL	TYP

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET
BAKERSFIELD, CA 93305

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Sheet Title:

MECHANICAL PLAN - BLDG E

Job No.: **5526**

Sheet No.: **M2.51**

Release: Addendum 2 1 9/9/2022

FIXTURE SCHEDULE

FIXTURE SYMBOL (3-A-48): 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 48 = FIXTURE WATTAGE

TYPE	WATTS	LAMPS	VOLT	MANUFACTURER	CATALOG NO.	MOUNT	NOTES	WEIGHT
A	43	L.E.D.	120-277V	LITHONIA	EPANL-2x4-6000LMHE-80CRI-40K-MIN1-EZT-MVOLT	T-BAR	PER #1/E5.00	15 LBS
AE	43	L.E.D.	↓	LITHONIA	EPANL-2x4-6000LMHE-80CRI-40K-MIN1-EZT-MVOLT-E10WCP	T-BAR	PER #1/E5.00 (1)	15 LBS
A2	62	L.E.D.	↓	LITHONIA	EPANL-2x4-6800LM-80CRI-40K-MIN1-EZT-MVOLT-E10WCP	T-BAR	PER #1/E5.00	15 LBS
A2E	62	L.E.D.	↓	LITHONIA	EPANL-2x4-6800LM-80CRI-40K-MIN1-EZT-MVOLT	T-BAR	PER #1/E5.00 (1)	15 LBS
B	39	L.E.D.	↓	LITHONIA	BLWP4-48LHE-ADP-EZ1-LP840-N100	SURAFACE	PER #2/E5.00	10 LBS
BE	39	L.E.D.	↓	LITHONIA	BLWP4-48LHE-ADP-EZ1-LP840-N100-E10WLCP	SURFACE	PER #2/E5.00 (1)	10 LBS
X	2	L.E.D.	120-277V	LITHONIA	LHQM-LED-R-HO	SURFACE	SINGLE FACE EXIT SIGN/EM LIGHT WITH EMERGENCY BATTERY PACK (2)	5 LBS

FIXTURE SCHEDULE NOTES:

(1) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE L.E.D. DRIVER AT 10 WATTS OF CONSTANT POWER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #3/E5.00 FOR WIRING REQUIREMENTS.

(2) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE EMERGENCY LIGHTS IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAILS PER #2/E5.00 FOR WIRING REQUIREMENTS.

ELECTRICAL SYMBOLS

ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

NOTE	SYMBOL	DESCRIPTION
	3-	CIRCUIT NUMBER (3-A-48)
	-A-	FIXTURE TYPE (3-A-48)
	-48	FIXTURE WATTAGE (3-A-48)
	A/3	HOME RUN 3/4"C - MIN. (PANEL A, CIRCUIT #3)
		CONDUIT RUN IN WALL OR ATTIC (1/2"C - 2 #12 AWG THWN + 1 #12 GND)
		CONDUIT RUN IN FLOOR OR UG (1/2"C - 2 #12 AWG THWN + 1 #12 GND)
		ANY CONDUIT RUN - 1/2"C - 3 #12 AWG THWN + 1 #12 GND
		" " - 3/4"C - 4 #12 AWG THWN + 1 #12 GND
		" " - 3/4"C - 5 #12 AWG THWN + 1 #12 GND
		" " - 1"C - 6 #12 AWG THWN + 1 #12 GND
		CONDUIT STUB - CAPPED AND LABELED.
	1	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
	U.O.N.	UNLESS OTHERWISE NOTED
	W.P.	WEATHERPROOF
		TERMINAL CABINET (SIZE AS SHOWN)
		ELECTRICAL PANELBOARD
		SINGLE 20A RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
		DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
	WP	G.F.C.I. DUPLEX RECEPTACLE IN MOUNTED ON ROOF
		QUADRUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
(B)		G.F.C.I. DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
		SURGE PROTECTED DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
		SURGE PROTECTED QUADPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
		EXIT LIGHT, WALL MOUNTED
		EXIT LIGHT, CEILING MOUNTED
		WALL MOUNTED LIGHT FIXTURE (MOUNT AS SHOWN)
		LIGHT FIXTURE
(H)	--C5--	NETWORK CABLE - CATEGORY 5e CABLE, LENGTH AS REQUIRED
(J)		LIGHT FIXTURE WITH "nLIGHT" EMBEDDED CONTROLS
	EM	LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK
	$	LIGHT SWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(L)	D	ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
	OS	360° OCCUPANCY SENSOR (DUAL TECHNOLOGY), CEILING MOUNTED
(F)	OS	OCCUPANCY SENSOR WALL SWITCH, LOW VOLTAGE (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(E)	S	ON/OFF SWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(D)	SK	ON/OFF DIGITAL KEYSWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
	J	JUNCTION BOX EQUIPPED WITH BLANK COVER
	J	JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION
		COMBINATION HEAVY-DUTY FUSED SAFETY SWITCH/MAGNETIC STARTER
		MOTOR
		HEAVY-DUTY FUSED SAFETY SWITCH
(C)	SD	SMOKE DETECTOR MOUNTED ON CEILING
(C)	HD	HEAT DETECTOR, MOUNTED IN ATTIC
(C)	MM	ADDRESSABLE MONITOR MODULE
(C)	DMM	ADDRESSABLE DUAL MONITOR MODULE
(C)	CR	CONTROL RELAY
(C)	DD	DUCT DETECTOR
(A), (C)	V 15	FIRE ALARM VISUAL STROBE/15 CANDELA (WALL MOUNTED)
(A), (C)	V 30	FIRE ALARM VISUAL STROBE/30 CANDELA (WALL MOUNTED)
(A), (C)	V 75	FIRE ALARM VISUAL STROBE/75 CANDELA (WALL MOUNTED)
(A), (C)	SV 30	FIRE ALARM SPEAKER/30 CANDELA VISUAL STROBE (WALL MOUNTED)
(A), (C)	SV 75	FIRE ALARM SPEAKER/75 CANDELA VISUAL STROBE (WALL MOUNTED)
(A), (C)	SP W.P.	FIRE ALARM EXTERIOR SPEAKER IN WALL
	WF	WATERFLOW SWITCH AT FIRE SPRINKLER RISER
	TS	TAMPER SWITCH AT FIRE DEPT. CONNECTION "F.D.C."
	B	ELECTRIC BELL (FOR FIRE SPRINKLER RISER)
(L)	◁	DATA OUTLET IN WALL (+18" U.O.N.)
	WA	DATA OUTLET IN CEILING WIRELESS ACCESS POINT (2 "CAT6A" CABLES)
(M)	P	INTERCOM SPEAKER, FLUSH MOUNTED IN T-BAR CEILING
	E	SUBSCRIPT DENOTES EXISTING SHALL REMAIN
	R	SUBSCRIPT DENOTES EXISTING SHALL BE REMOVED
	—ER—	DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE REMOVED

1

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRANED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☑ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #0043-13.

ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #3/E3.22 FOR RESPECTIVE MOUNTING HEIGHTS.

(B) AT EXTERIOR LOCATIONS, PROVIDE WEATHER-RESISTANT TYPE G.F.C.I. DUPLEX RECEPTACLES, LEVITON #G5362-WTW OR EQUAL. AT DAMP LOCATIONS, PROVIDE A DIECAST WEATHERPROOF LOCKABLE COVER, RACO #5028-0 OR EQUAL. AT WET LOCATIONS, PROVIDE A DIECAST WEATHERPROOF "WHILE-IN-USE" LOCKABLE COVER, RED DOT #CKSUV OR EQUAL.

(C) REFER TO FIRE ALARM PLAN, SHEET #E3.20 FOR DEVICE INFORMATION.

(D) ACUITY CONTROLS #nPOD-KEY-WH. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(E) ACUITY CONTROLS #nPODMA-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(F) ACUITY CONTROLS #nWSX-PDT-LV-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(G) RESERVED

(H) ACUITY CONTROLS #CAT 5e * J1 OR EQUAL. * ASTERISK INDICATES LENGTH OF CABLE. CABLES ARE AVAILABLE IN 6", 1', 2', 5', 10', 15', 30', AND 50' LENGTHS.

(J) "nLIGHT" ENABLED LIGHT FIXTURE PER FIXTURE SCHEDULE ON SHEET #EG101.

(K) ACUITY CONTROLS #WSD-PDT-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(L) PROVIDE (2) CAT6 CABLES TO BUILDING IDF CABINET. AT AREAS WHERE WALLS ARE CLOSED, PROVIDE 4S BACKBOX AND FISH THROUGH EXISTING WALL CAVITY; AT AREAS WHERE WALLS ARE OPENED, ELECTRICAL CONTRACTOR SHALL PROVIDE A 5" SQUARE x 2 7/8" DEEP OUTLET BOX WITH SINGLE GANG RAISED RING, DEPTH AS REQUIRED. UNLESS OTHERWISE NOTED, RUN 1-1/4"C FROM OUTLET BOX AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BARCEILING. PROVIDE AN INSULATING BUSHING, BRIDGEPORT #TWB-54 OR EQUAL, AT STUB.

(M) ELECTRICAL CONTRACTOR SHALL PROVIDE SPECIAL BACK BOX PER MFG AND T-BAR MOUNTING BAR WITH CABLE ATTACHMENT TO STRUCTURE ABOVE, REFER TO ARCHITECTURAL DETAIL #9/A8.01 FOR CABLE ATTACHMENT.

1

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

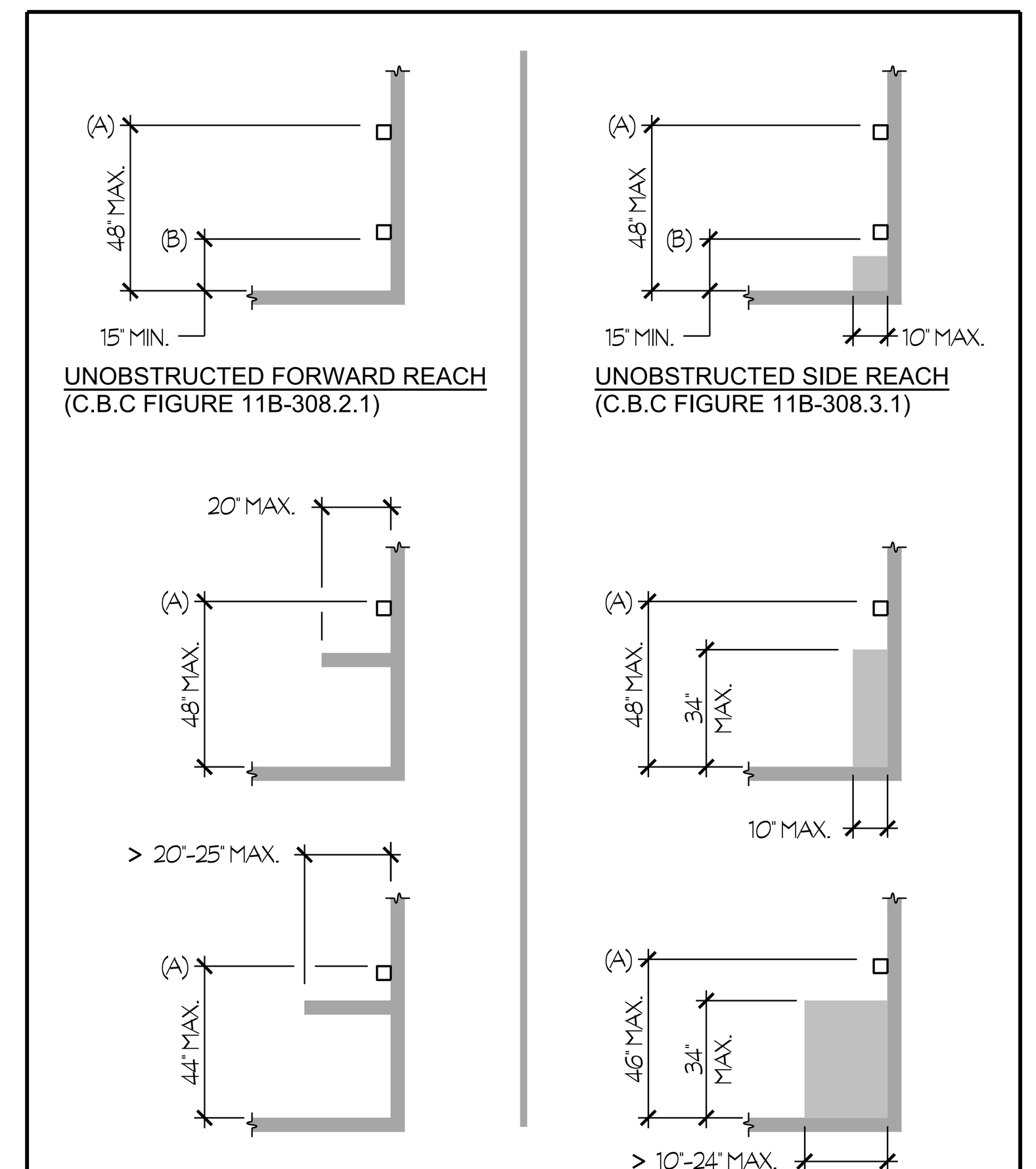
CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2019 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEnC), PART 6, TITLE 24 C.C.R.
- 2019 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.

TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

- NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)
- NFPA 720 - CARBON MONOXIDE STANDARDS FOR INSTALLATION, DETECTION AND WARNING EQUIPMENT
- ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES
- UL 38 - MANUAL ACTUATED SIGNALING BOXES, 2008 EDITION
- UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2016 EDITION
- UL 268A - SMOKE DETECTORS FOR DUCT APPLICATIONS, 2008 EDITION
- UL 464 - AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
- UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2005)
- UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION



UNOBSTRUCTED FORWARD REACH (C.B.C FIGURE 11B-308.2.1)

UNOBSTRUCTED SIDE REACH (C.B.C FIGURE 11B-308.3.1)

OBSTRUCTED HIGH FORWARD REACH (C.B.C FIGURE 11B-308.2.2)

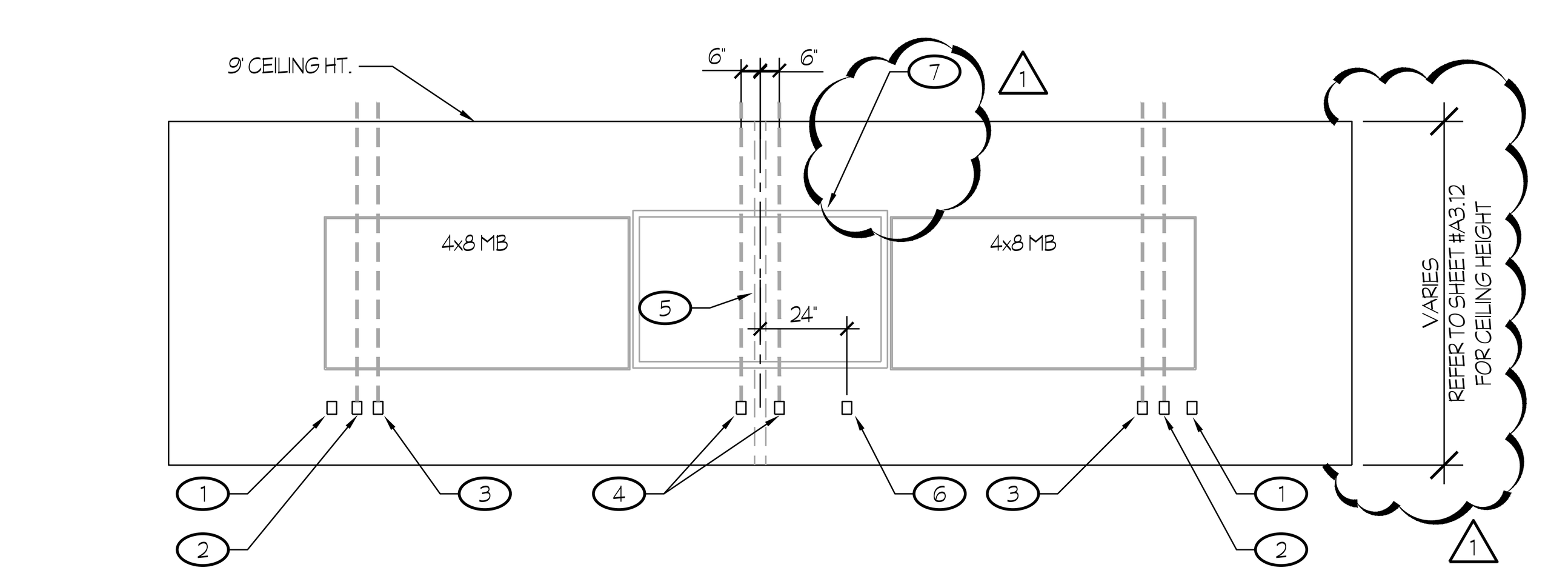
OBSTRUCTED HIGH SIDE REACH (C.B.C FIGURE 11B-308.3.2)

(A) TOP OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

(B) BOTTOM OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

1 ELECTRICAL RECEPTACLE, SWITCH AND CONTROL HEIGHTS

NTS



2 TEACHING WALL ELEVATION

NOTES (THIS SHEET ONLY):

1. PROVIDE A DUPLEX RECEPTACLE (SURGE PROTECTED) AS REQUIRED, AT (+15" MIN TO BOTTOM OF BOX).
2. MOUNT J-BOX ONLY FOR (DATA OUTLET) AND STUB ONE 3/4"C INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING.
3. PROVIDE A 2-GANG LOW VOLTAGE RAISED RING, DEPT AS REQUIRED AND (+15" MIN. TO BOTTOM OF RING). STUB ONE 1" CONDUIT INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AND ANCHORED TO FRAMING AS REQUIRED. NO HARD CONNECTIONS AT RAISED RING. PROVIDE NYLON PULL STRING.
4. PROVIDE A 1-GANG LOW VOLTAGE RAISED RING, DEPT AS REQUIRED AND (+15" MIN. TO BOTTOM OF RING). STUB ONE 1" CONDUIT INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AND ANCHORED TO FRAMING AS REQUIRED. NO HARD CONNECTIONS AT RAISED RING. PROVIDE NYLON PULL STRING.
5. LOCATE (E) 2 x 6 STUD AT 16" O.C. AND FASTEN WALL MOUNT TO STUDS WITH (6) 1/4" x 3" LAG SCREWS, (3) ON TOP ROW OF WALL PLATE AND (3) ON BOTTOM ROW OF WALL PLATE. PRE-DRILL HOLES REQUIRED. REFER TO DETAIL # _ / A8.01.
6. PROVIDE QUADPLEX RECEPTACLE (SURGE PROTECTED) AS REQUIRED, AT (+15" MIN TO BOTTOM OF BOX).
7. LCD TV/MONITOR LOCATION - BCSD TO PROVIDE AND INSTALL. WALL MOUNT BRACKET: 50LBS MAX. TV/MONITOR: 180 LBS MAX. REFER TO DETAIL #_ / A8.01.

NTS

GENERAL NOTE

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/ INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

Rose Sing Eastham & Associates
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131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER — STEVEN KIRK EASTHAM — No. E-18786 — Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

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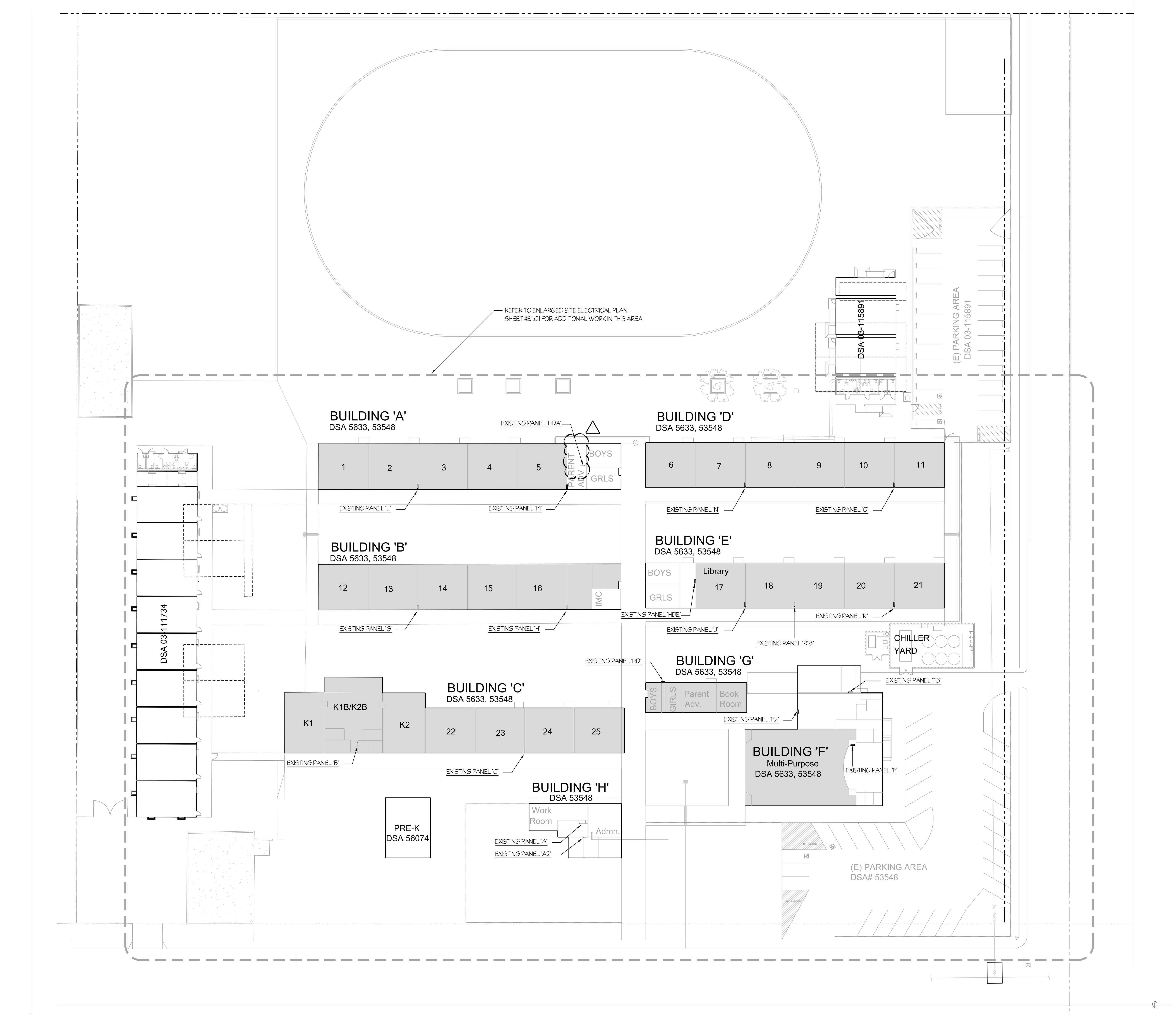
Sheet Title:

CODES, NOTES SYMBOLS & FIXTURE SCHED.

Job No.: 5526

Sheet No.: E0.01

Release: ADDENDUM #2 1 Issue Date: 05-01-2024



SITE ELECTRICAL PLAN

CENTRAL PLANT REPLACEMENT

SCALE: 1" = 30'-0"

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No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

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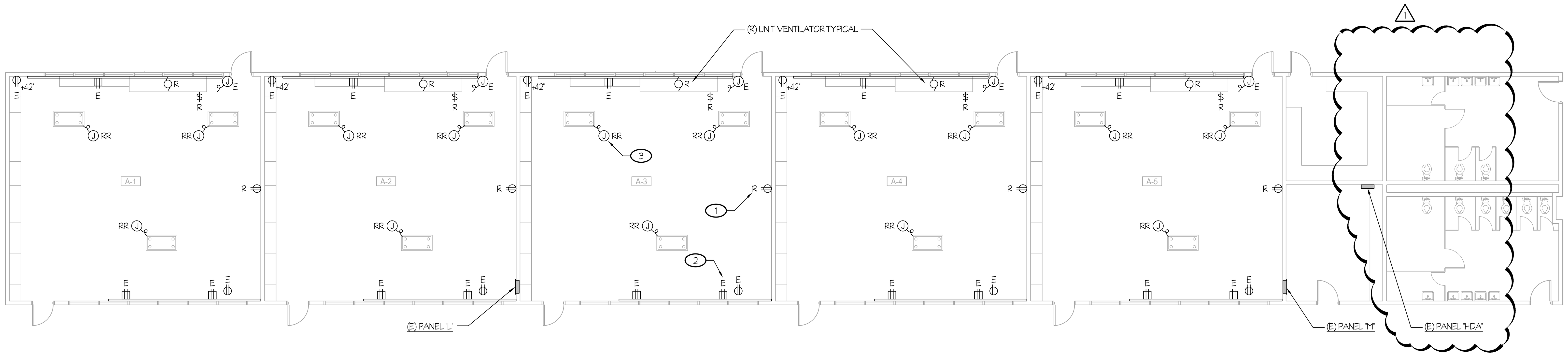
Sheet Title:

SITE ELECTRICAL PLAN

Job No.: **5526**

Sheet No.: **E1.00**

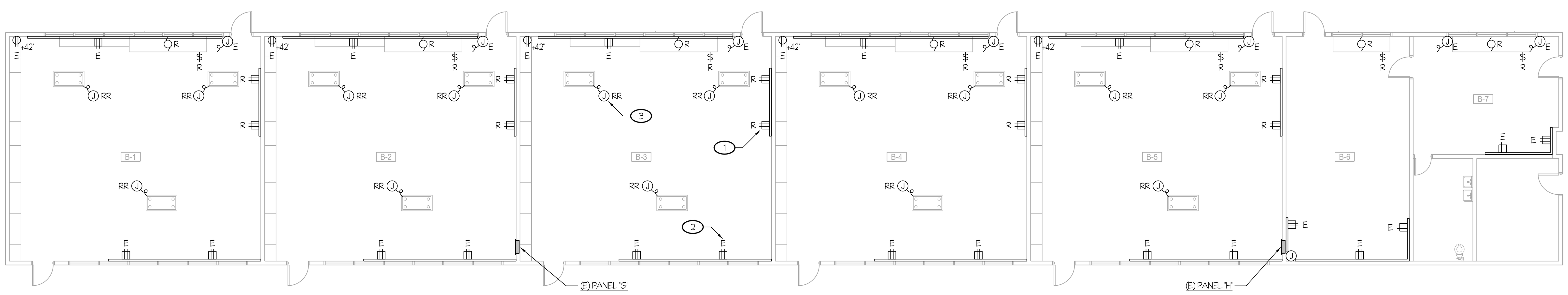
Release: ADDENDUM #2 Issue Date: 05-01-2024



DEMOLITION POWER PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

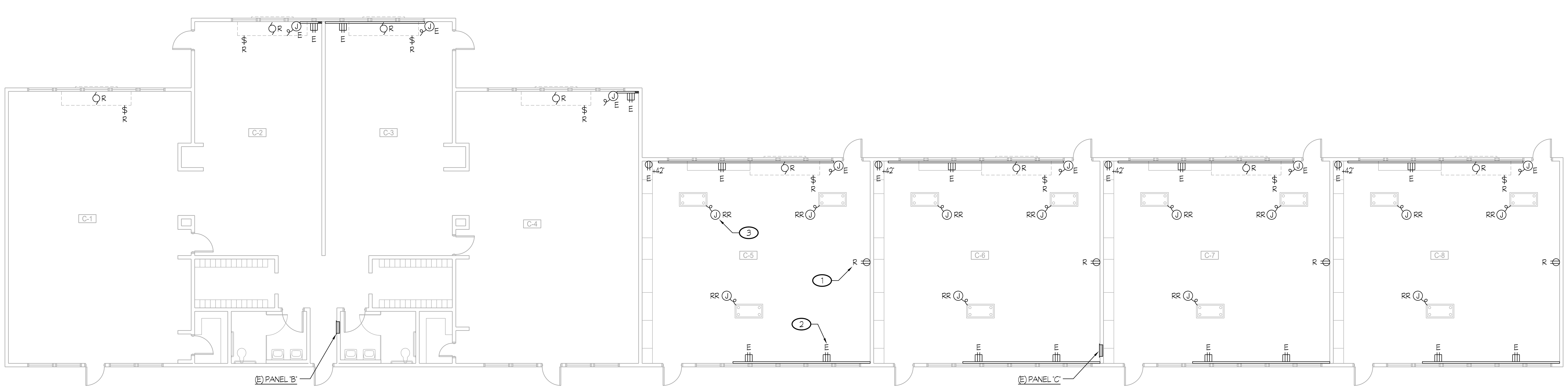
SCALE: 1/8" = 1'-0"



DEMOLITION POWER PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



DEMOLITION POWER PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R": DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
2. TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N.. EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
3. TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

ROOM LEGEND

#	ROOM NAME
A-1	CLASSROOM
A-2	CLASSROOM
A-3	CLASSROOM
A-4	CLASSROOM
A-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
B-1	CLASSROOM
B-2	CLASSROOM
B-3	CLASSROOM
B-4	CLASSROOM
B-5	CLASSROOM
B-6	TEACHERS WORKROOM
B-7	TEACHERS LOUNGE

ROOM LEGEND

#	ROOM NAME
C-1	KINDERGARTEN
C-2	KINDERGARTEN
C-3	KINDERGARTEN
C-4	KINDERGARTEN
C-5	CLASSROOM
C-6	CLASSROOM
C-7	CLASSROOM
C-8	CLASSROOM

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REGISTERED PROFESSIONAL ENGINEER STEVEN KIRK EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

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BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

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Sheet Title:

DEMOLITION POWER PLANS BUILDING A, B, & C

Job No.: 5526

Sheet No.: E2.00

Release: ADDENDUM #2 Issue Date: 05-01-2024

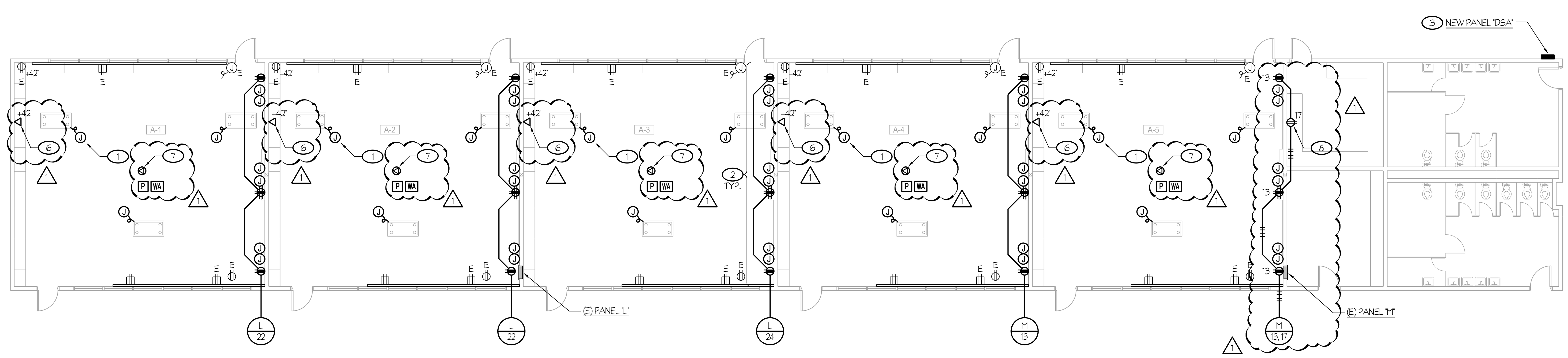
NOTES (THIS SHEET ONLY):

1. RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.
2. REFER TO DETAIL #2/E0.01 FOR TYPICAL TEACHER WALL ELEVATION.
3. REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.
4. PROVIDE 3/4"C - 2 #12 + 1 #12 GND.
5. PROVIDE NEMA 3R MOTOR RATED DISCONNECT SWITCH AND CONNECT TO INDOOR UNITS AS REQUIRED. COORDINATE EXACT CONNECTION POINT WITH MECHANICAL CONTRACTOR AS REQUIRED.
6. PROVIDE 3/4" CONDUIT, (2) PORT DATA OUTLETS, AND (2) CAT6 CABLES TO IDF CABINET.
7. PROVIDE (4) CAT6 DATA CABLES WITH RJ-45 TERMINATION ABOVE THE CEILING WITH 30' OF SPARE LENGTH.
8. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

1

GENERAL NOTES

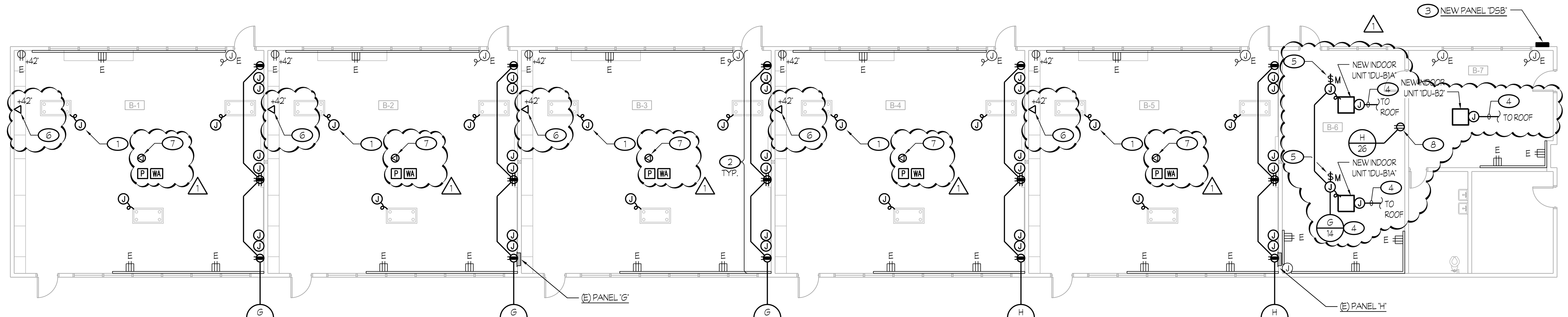
1. EXISTING RECEPTACLES SHALL REMAIN INCLUDING RESPECTIVE CIRCUITS.



1 NEW POWER PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

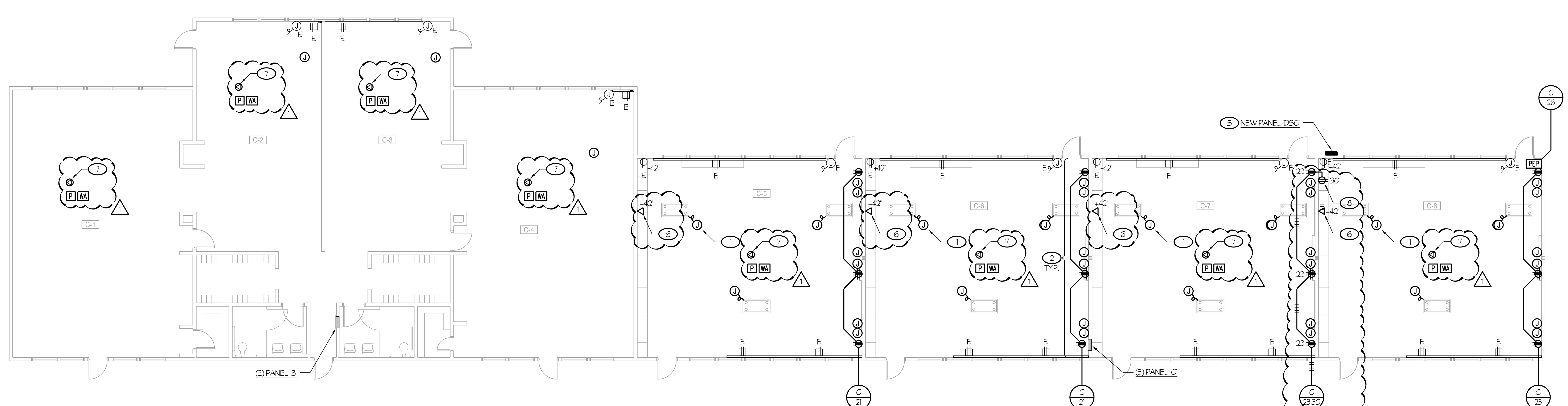
SCALE: 1/8" = 1'-0"



2 NEW POWER PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



3 NEW POWER PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

ROOM LEGEND	
#	ROOM NAME
A-1	CLASSROOM
A-2	CLASSROOM
A-3	CLASSROOM
A-4	CLASSROOM
A-5	CLASSROOM

ROOM LEGEND	
#	ROOM NAME
B-1	CLASSROOM
B-2	CLASSROOM
B-3	CLASSROOM
B-4	CLASSROOM
B-5	CLASSROOM
B-6	TEACHERS WORKROOM
B-7	TEACHERS LOUNGE

ROOM LEGEND	
#	ROOM NAME
C-1	KINDERGARTEN
C-2	KINDERGARTEN
C-3	KINDERGARTEN
C-4	KINDERGARTEN
C-5	CLASSROOM
C-6	CLASSROOM
C-7	CLASSROOM
C-8	CLASSROOM

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Project Name:

CENTRAL PLANT REPLACEMENT

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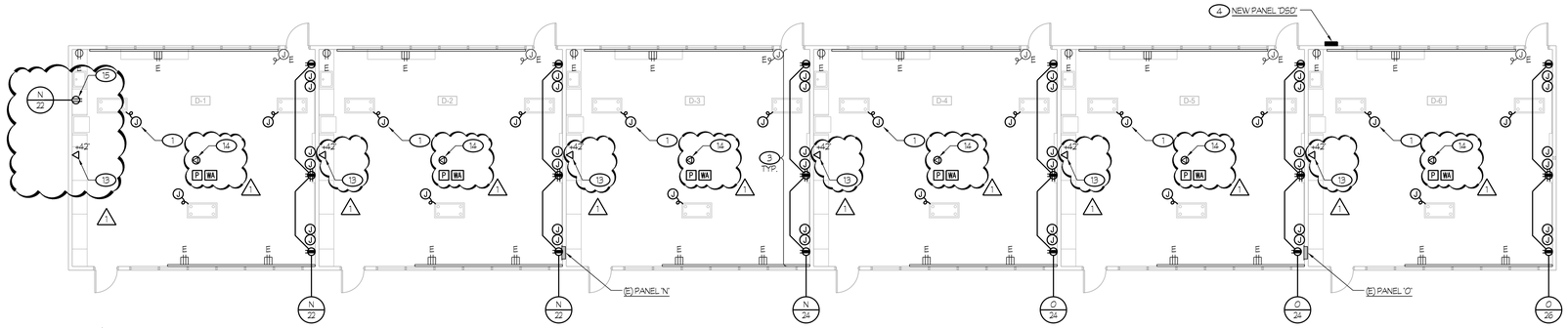
Sheet Title:

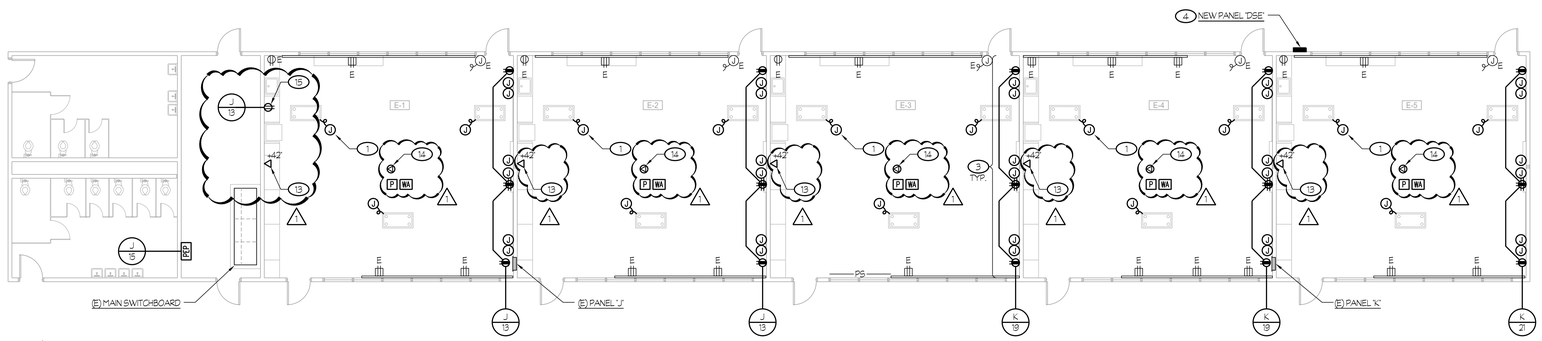
NEW POWER PLANS BUILDING A, B, & C

Job No.: **5526**

Sheet No.: **E2.10**

Release: ADDENDUM #2 1 Issue Date: 05-01-2024





1 NEW POWER PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

2 NEW POWER PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

5 NEW POWER PLAN - BUILDING "G"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

3 NEW POWER PLAN - CHILLER YARD
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

4 NEW POWER PLAN - BUILDING "F"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

① RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.

② TEMPORARY CONNECTION TO EXISTING EQUIPMENT PER ONE-LINE DIAGRAM.

③ REFER TO DETAIL #2/E0.01 FOR TYPICAL TEACHER WALL ELEVATION.

④ REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.

⑤ REFER TO DETAIL #7/E5.00 FOR MOUNTING REQUIREMENTS.

⑥ PROVIDE 3/4"C - 2 #12 + 1 #12 GND.

⑦ PROVIDE NEW UTILITY PAD PER APPROVED UTILITY DRAWINGS AND PG&E STANDARDS 045292.

⑧ PROVIDE SECONDARY CONDUCTORS PER APPROVED UTILITY DRAWINGS (EXPECTED TO BE (6) 4" CONDUITS).

⑨ PROVIDE NEW VAULT STYLE PULL BOX FOR ROUTING OF CONDUITS. REFER TO DETAIL #5/E5.00.

⑩ NEW CONDUITS AND CONDUCTORS PER ONE LINE DIAGRAM ON SHEET #E4.01. REFER TO SITE PLAN #E1.01 FOR CONTINUATION.

⑪ NEW CONDUIT AND CONDUCTORS FOR RECONNECTION OF EXISTING FEEDS PER ONE LINE DIAGRAM ON SHEET #E4.01.

⑫ FIELD VERIFY PICK-UP POINT FOR EXISTING FEEDERS AND ROUTE AROUND NEW CONSTRUCTION AS REQUIRED.

⑬ PROVIDE 3/4" CONDUIT, (2) PORT DATA OUTLETS, AND (2) CAT6 CABLES TO IDF CABINET.

⑭ PROVIDE (4) CAT6 DATA CABLES WITH RJ-45 TERMINATION ABOVE THE CEILING WITH 30' OF SPARE LENGTH.

⑮ COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

△1

GENERAL NOTES

1. EXISTING RECEPTACLES SHALL REMAIN INCLUDING RESPECTIVE CIRCUITS.

ROOM LEGEND

#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	CLASSROOM
D-5	CLASSROOM
D-6	LIBRARY

ROOM LEGEND

#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
F-1	ASSEMBLY CAFETERIA
F-2	STAGE
F-3	KITCHEN
F-4	FACULTY DINING

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Sheet Title:
NEW POWER PLANS - BLDGS D, E & CHILLER YARD

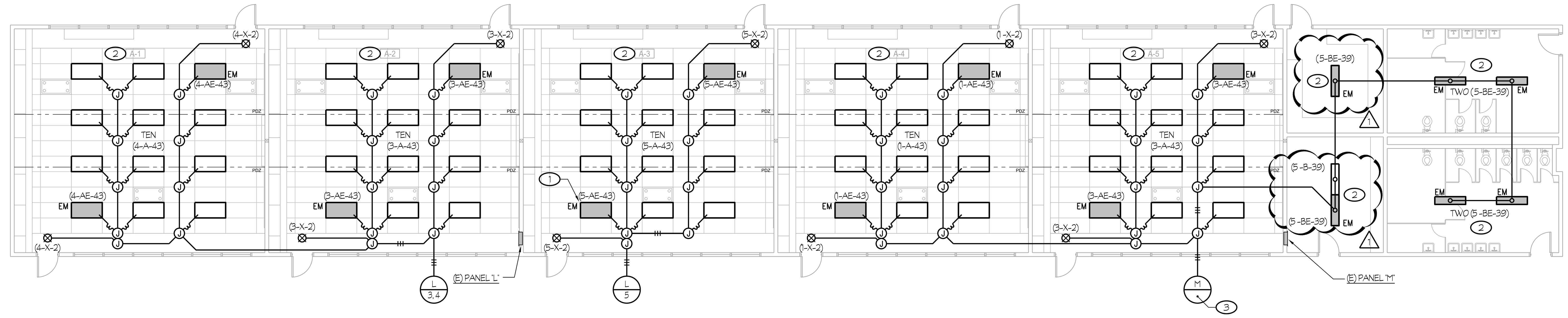
Job No.: **5526**

Sheet No.: **E2.11**

Release: ADDENDUM #2 △1 Issue Date: 05-01-2024

NOTES (THIS SHEET ONLY):

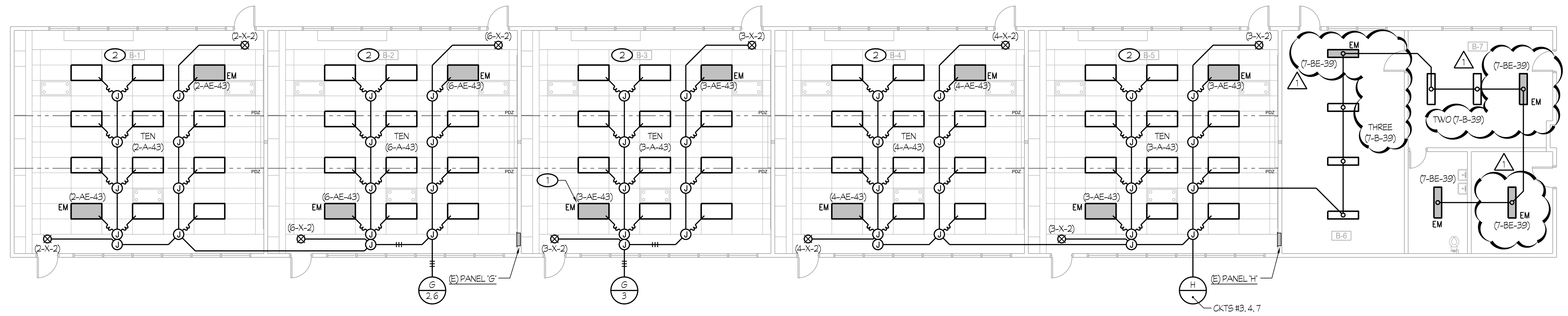
1. SYMBOL ▭EM DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #3/E5.00.
2. REFER TO TYPICAL LIGHTING CONTROL PLAN, #1/E2.22 FOR ADDITIONAL WORK.
3. FIELD VERIFY. REUSE THE SAME CIRCUIT BREAKERS, CORRESPONDING TO THE DEMOLISHED LIGHTS, FOR THE NEW CONSTRUCTION IN THE RESPECTIVE ROOMS.



1 NEW LIGHTING PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

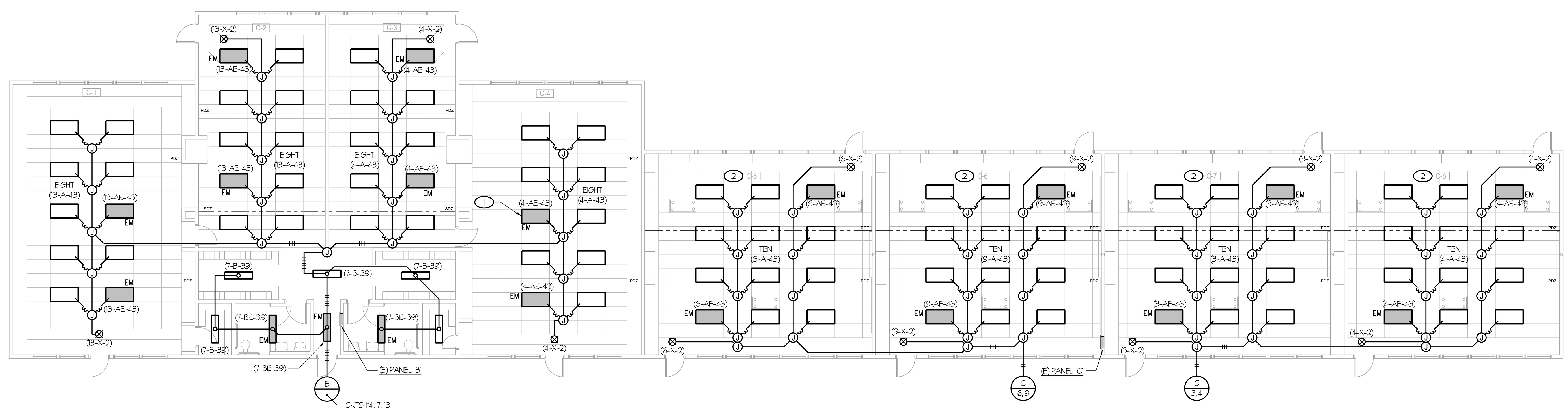
SCALE: 1/8" = 1'-0"



2 NEW LIGHTING PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



3 NEW LIGHTING PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

ROOM LEGEND

#	ROOM NAME
A-1	CLASSROOM
A-2	CLASSROOM
A-3	CLASSROOM
A-4	CLASSROOM
A-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
B-1	CLASSROOM
B-2	CLASSROOM
B-3	CLASSROOM
B-4	CLASSROOM
B-5	CLASSROOM
B-6	TEACHERS WORKROOM
B-7	TEACHERS LOUNGE

ROOM LEGEND

#	ROOM NAME
C-1	KINDERGARTEN
C-2	KINDERGARTEN
C-3	KINDERGARTEN
C-4	KINDERGARTEN
C-5	CLASSROOM
C-6	CLASSROOM
C-7	CLASSROOM
C-8	CLASSROOM

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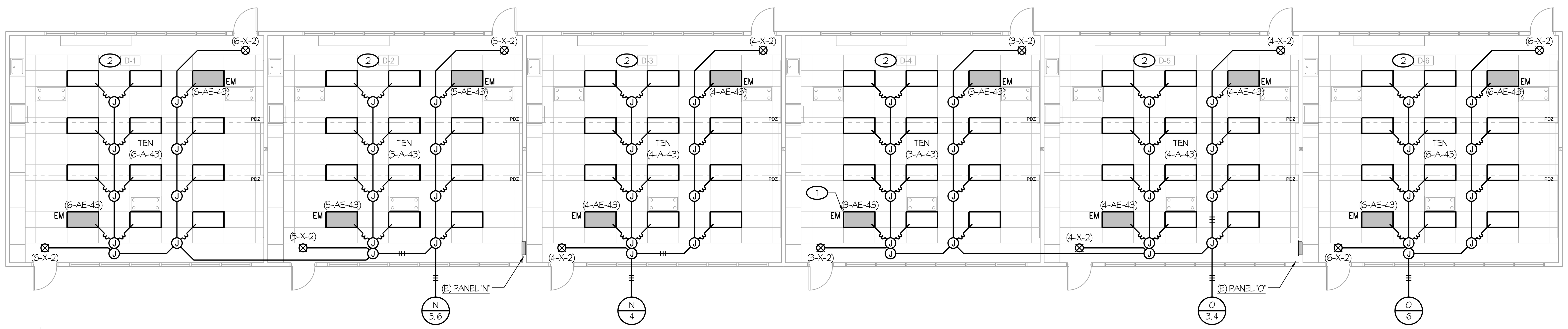
NEW LIGHTING PLANS BUILDING A, B, & C

Job No.: **5526**

Sheet No.: **E2.20**

Release: ADDENDUM #2 △1 Issue Date: 05-01-2024

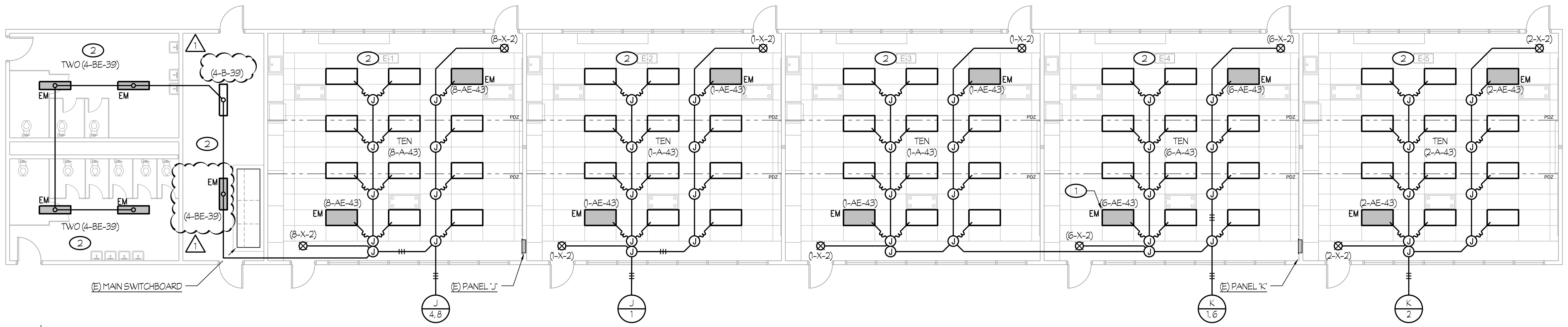


NEW LIGHTING PLAN - BUILDING "D"

1

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

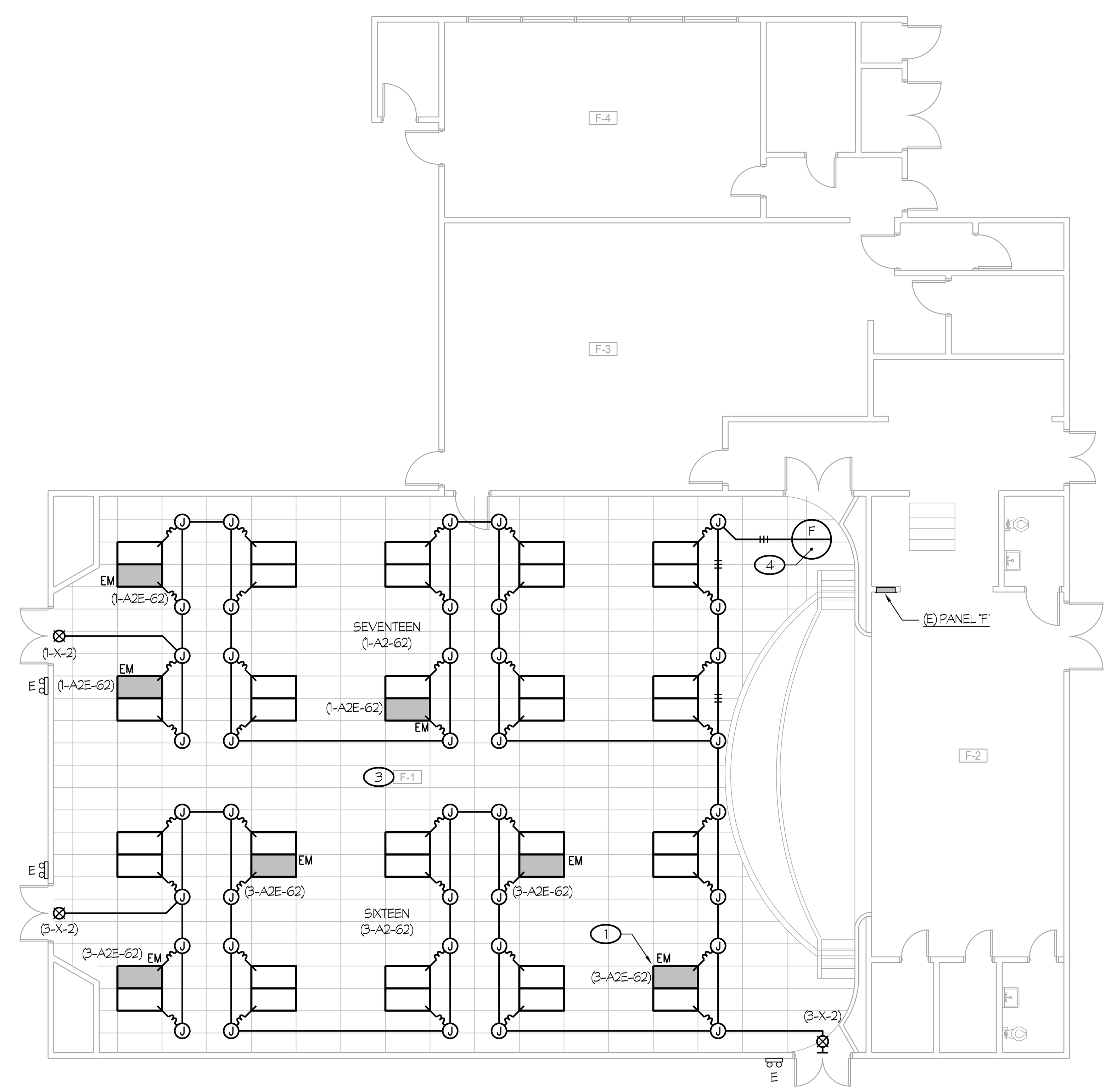


NEW LIGHTING PLAN - BUILDING "E"

2

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



NEW LIGHTING PLAN - BUILDING "F"

3

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. SYMBOL [EM] DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #3/E5.00.
2. REFER TO TYPICAL LIGHTING CONTROL PLAN, #1/E2.22 FOR ADDITIONAL WORK.
3. REFER TO LIGHTING CONTROL PLAN - BUILDING "F", #2/E2.22 FOR ADDITIONAL WORK.
4. FIELD VERIFY. REUSE THE SAME CIRCUITS BREAKERS, CORRESPONDING TO THE DEMOLISHED LIGHTS IN THE ASSEMBLY CAFETERIA ROOM, FOR THE NEW CONSTRUCTION.

ROOM LEGEND

#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	CLASSROOM
D-5	CLASSROOM
D-6	LIBRARY

ROOM LEGEND

#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
F-1	ASSEMBLY CAFETERIA
F-2	STAGE
F-3	KITCHEN
F-4	FACULTY DINING

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No. E-18786
Exp. 6/30/23
ELECTRICAL
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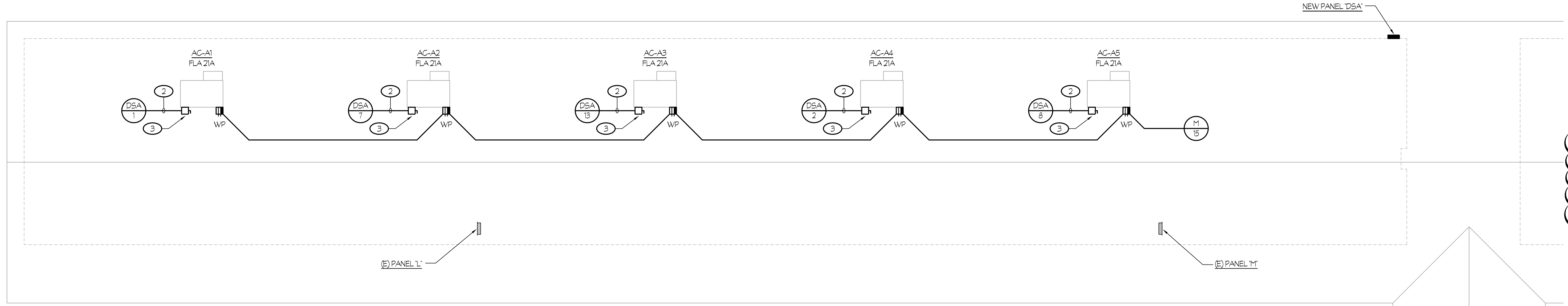
Sheet Title:

NEW LIGHTING PLANS - BLDGS D, E & F

Job No.: **5526**

Sheet No.: **E2.21**

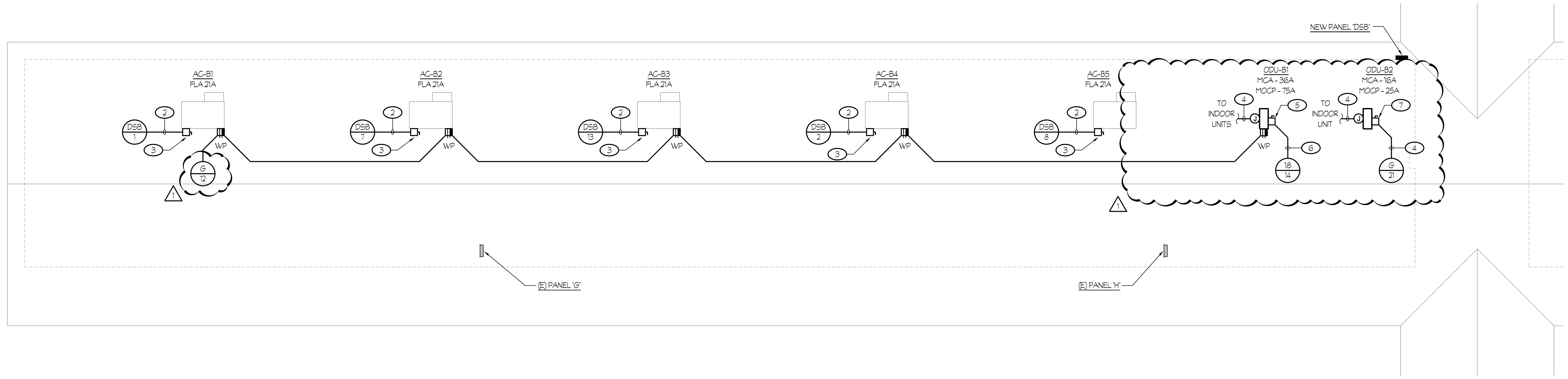
Release: ADDENDUM #2 △1 Issue Date: 05-01-2024



NEW ROOF ELECTRICAL PLAN - BUILDING "A"

1 CENTRAL PLANT REPLACEMENT

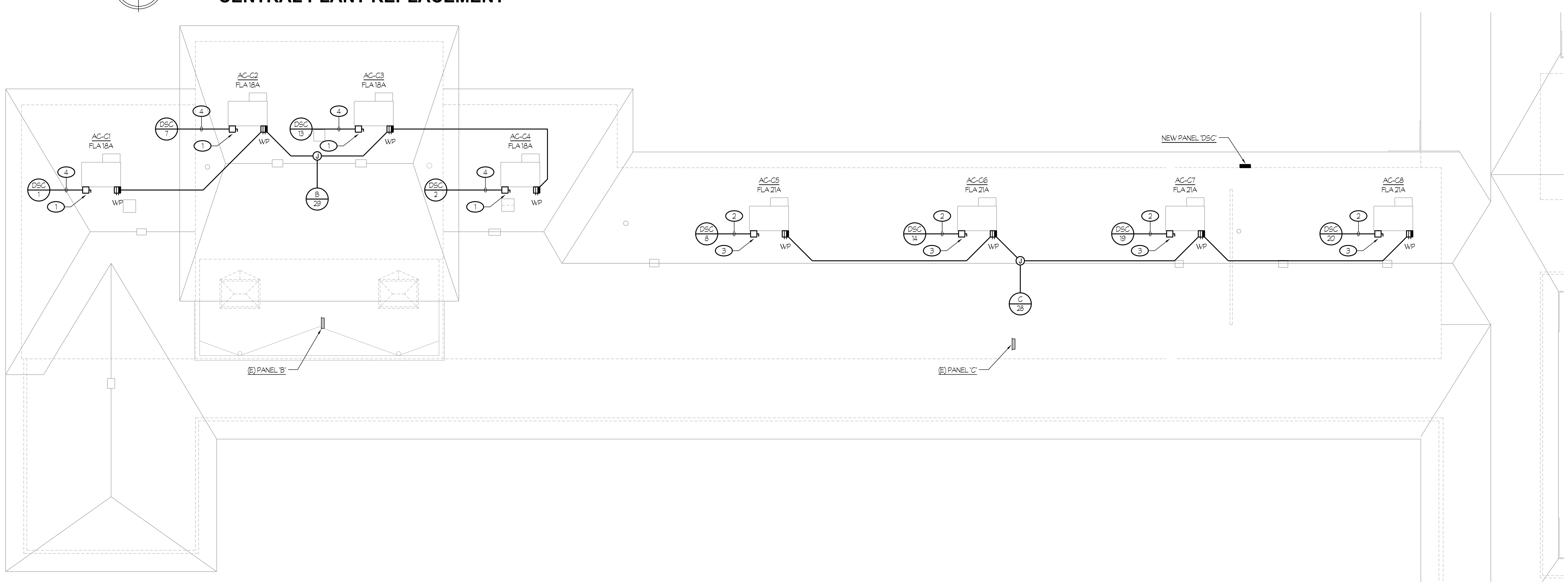
SCALE: 1/8" = 1'-0"



NEW ROOF ELECTRICAL PLAN - BUILDING "B"

2 CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



NEW ROOF ELECTRICAL PLAN - BUILDING "C"

3 CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. PROVIDE 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
2. 3/4"C - 3 #10 + 1 #10 GND.
3. PROVIDE WEATHERPROOF 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 25A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
4. 3/4"C - 3 #12 + 1 #12 GND.
5. PROVIDE WEATHERPROOF 60A, 250V, 2-POLE FUSED DISCONNECT SWITCH WITH 40A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
6. 1"C - 3 #8 + 1 #10 GND.
7. PROVIDE WEATHERPROOF 30A, 250V, 2-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.

1

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

Owner:

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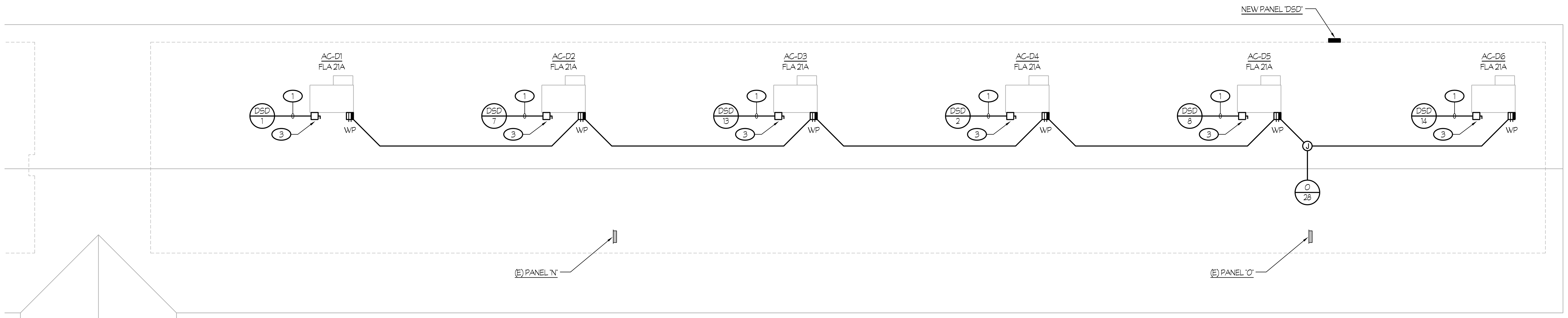
Sheet Title:

NEW ROOF ELECTRICAL PLANS BUILDING A, B, & C

Job No.: **5526**

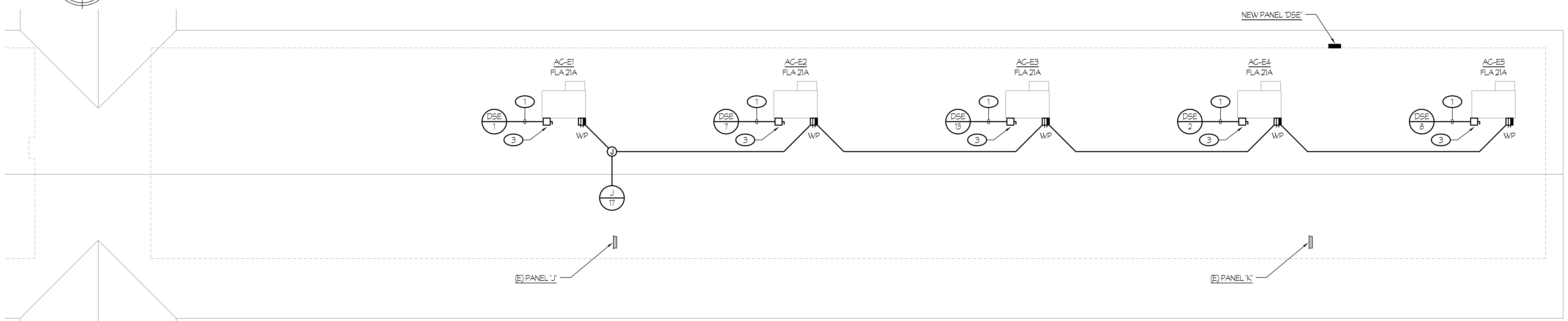
Sheet No.: **E2.30**

Release: ADDENDUM #2 1 Issue Date: 05-01-2024



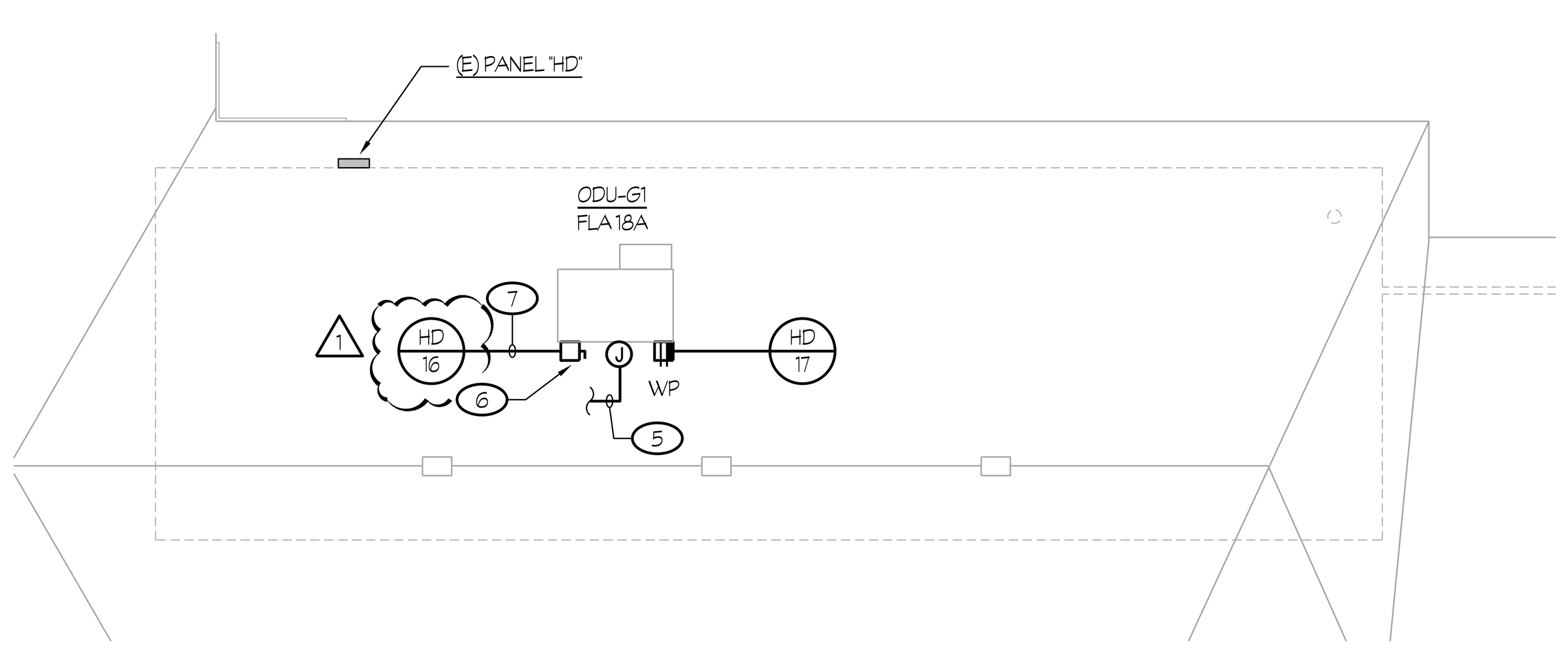
1 NEW ROOF ELECTRICAL PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



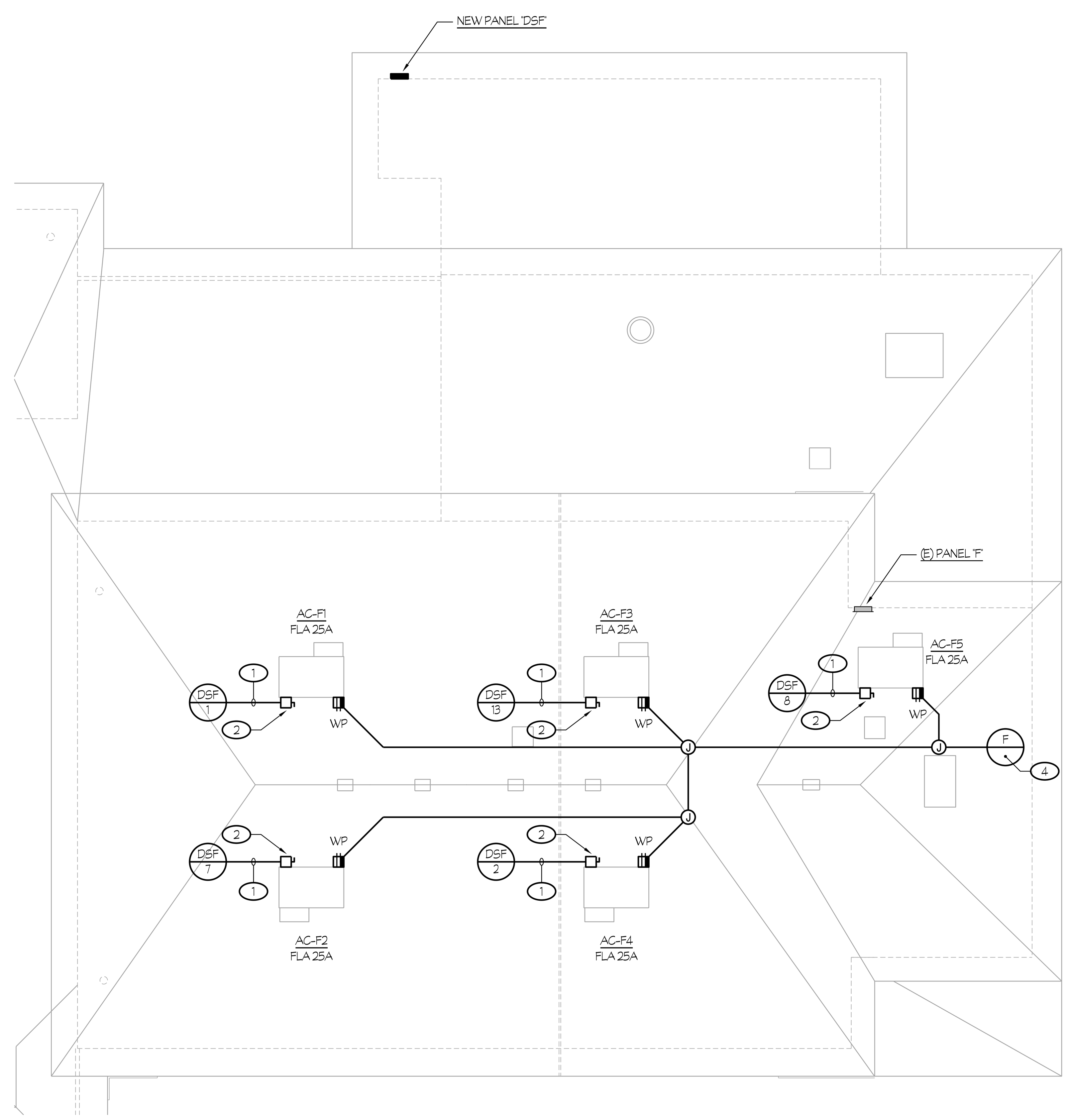
2 NEW ROOF ELECTRICAL PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



4 NEW ROOF ELECTRICAL PLAN - BUILDING "G"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



3 NEW ROOF ELECTRICAL PLAN - BUILDING "F"
CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. 3/4"C - 3 #10 + 1 #10 GND.
2. PROVIDE WEATHERPROOF 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 30A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
3. PROVIDE WEATHERPROOF 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 25A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
4. FIELD VERIFY. CONNECT ROOF RECEPTACLES CIRCUIT TO SPARE CIRCUIT BREAKER IN PANEL "F".
5. PROVIDE 3/4"C - 2 #12 + 1 #12 GND.
6. PROVIDE WEATHERPROOF 60A, 250V, 2-POLE FUSED DISCONNECT WITH 45A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
7. 1"C - 2 #8 + 1 #10 GND.

Owner:

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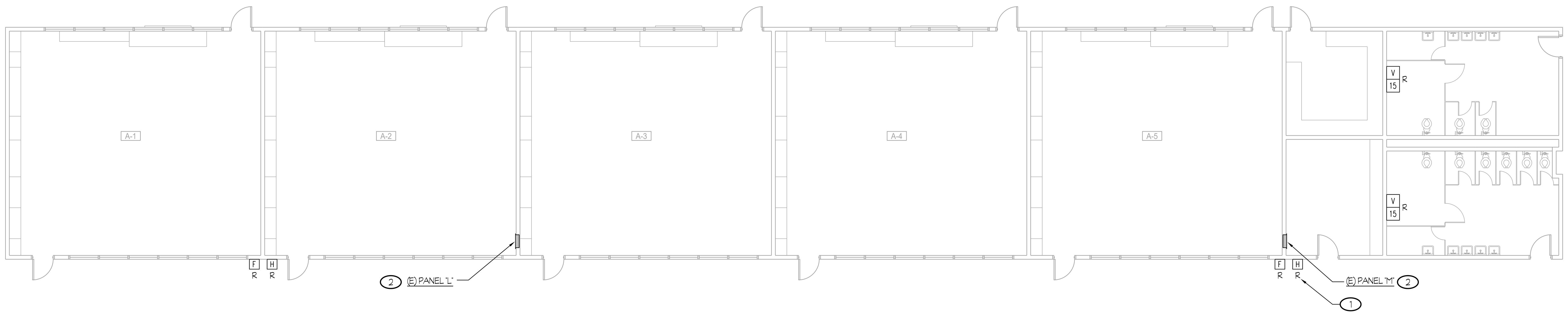
REGISTERED PROFESSIONAL ENGINEER
STEVEN KIRK EASTHAM
No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title:
NEW ROOF ELECTRICAL PLANS - BLDG. D, E, F & G

Job No.: 5526

Sheet No.: E2.31

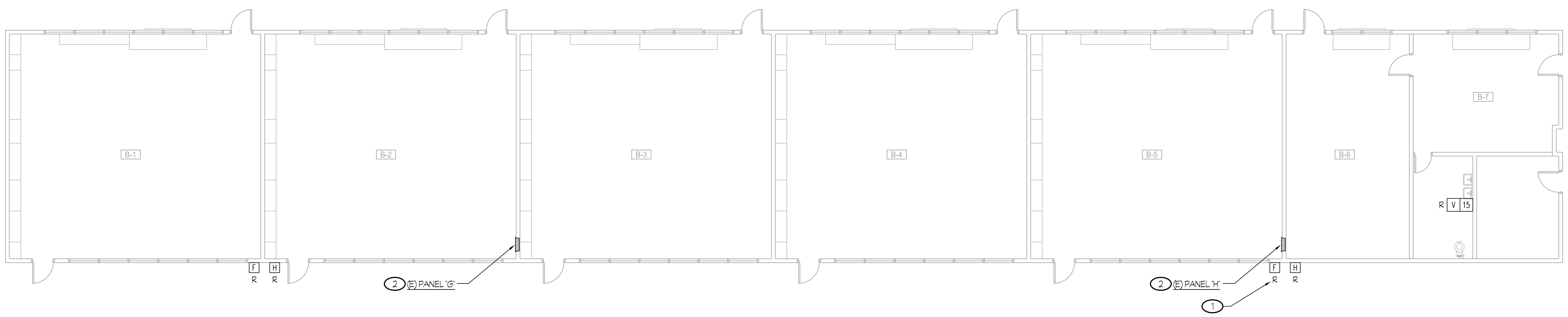
Release: ADDENDUM #2 1 Issue Date: 05-01-2024



DEMOLITION FIRE ALARM PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

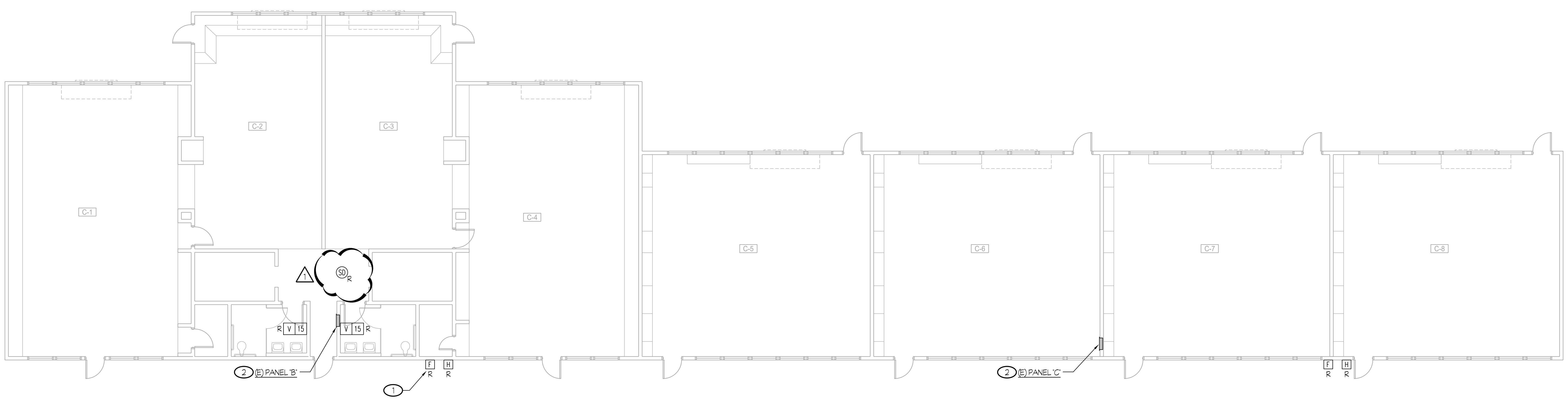
SCALE: 1/8" = 1'-0"



DEMOLITION FIRE ALARM PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



DEMOLITION FIRE ALARM PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R": DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
2. TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N.. EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.

GENERAL NOTE:

1. FIELD VERIFY EXACT LOCATIONS OF EXISTING FIRE ALARM INITIATION AND NOTIFICATIONS DEVICES INSIDE CLASSROOM BUILDINGS A, B, C, D, & E AND BUILDINGS F & G. EXISTING BELLS ARE TO REMAIN.
2. EXISTING FIRE ALARM DEVICES, AS NOTED IN GENERAL NOTE #1, ARE TO BE REMOVED AND RETURNED TO THE DISTRICT.

ROOM LEGEND

#	ROOM NAME
A-1	CLASSROOM
A-2	CLASSROOM
A-3	CLASSROOM
A-4	CLASSROOM
A-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
B-1	CLASSROOM
B-2	CLASSROOM
B-3	CLASSROOM
B-4	CLASSROOM
B-5	CLASSROOM
B-6	TEACHERS WORKROOM
B-7	TEACHERS LOUNGE

ROOM LEGEND

#	ROOM NAME
C-1	KINDERGARTEN
C-2	KINDERGARTEN
C-3	KINDERGARTEN
C-4	KINDERGARTEN
C-5	CLASSROOM
C-6	CLASSROOM
C-7	CLASSROOM
C-8	CLASSROOM

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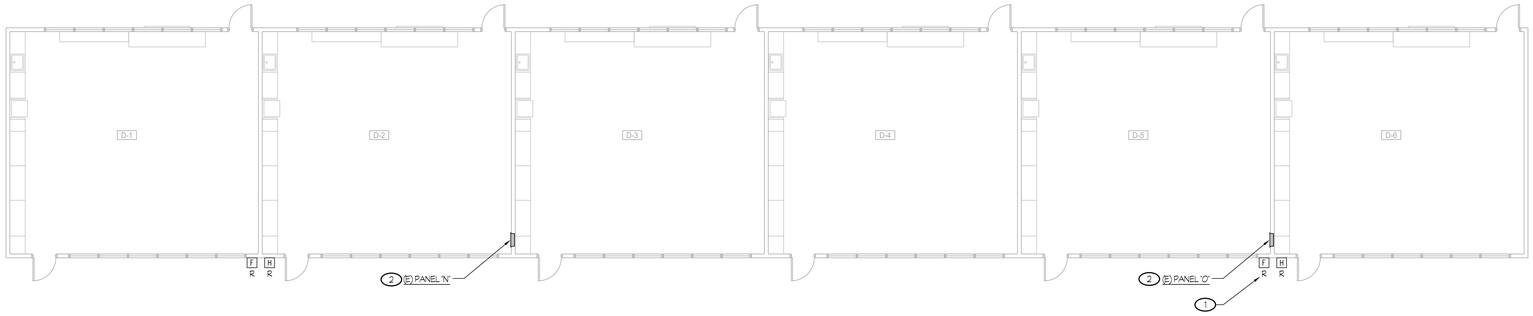
Sheet Title:

DEMOLITION FIRE ALARM PLANS BUILDING A, B, & C

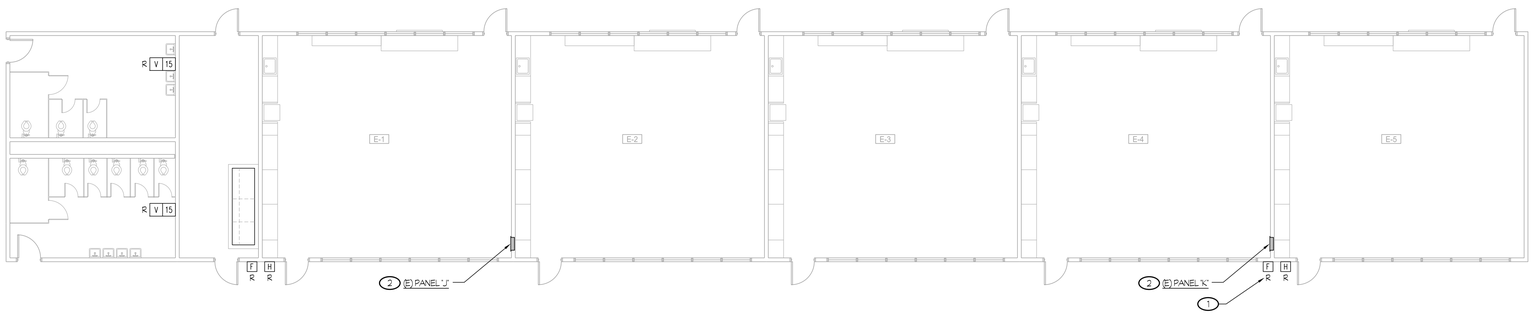
Job No.: **5526**

Sheet No.: **E3.00**

Release: ADDENDUM #2 ⚠1 Issue Date: 05-01-2024

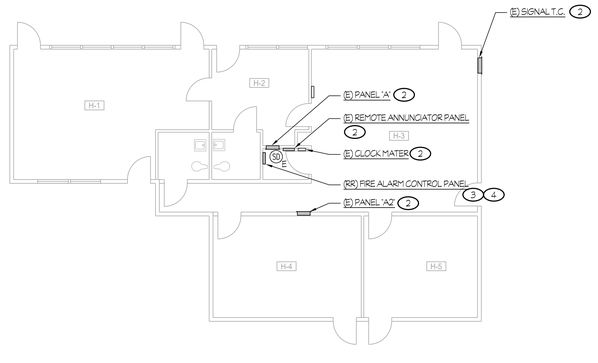


1 DEMOLITION FIRE ALARM PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT
SCALE: 1/8 = 1'-0"

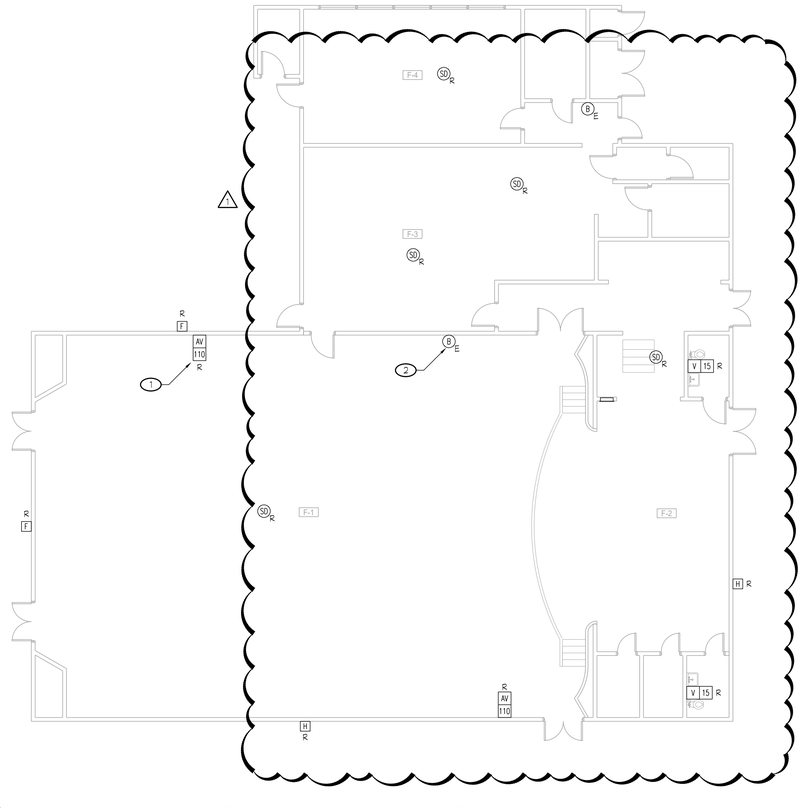


2 DEMOLITION FIRE ALARM PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT
SCALE: 1/8 = 1'-0"

5 DEMOLITION FIRE ALARM PLAN - BUILDING "G"
CENTRAL PLANT REPLACEMENT
SCALE: 1/8 = 1'-0"



3 DEMOLITION FIRE ALARM PLAN - BUILDING "H"
CENTRAL PLANT REPLACEMENT
SCALE: 1/8 = 1'-0"



4 DEMOLITION FIRE ALARM PLAN - BUILDING "F"
CENTRAL PLANT REPLACEMENT
SCALE: 1/8 = 1'-0"

NOTES (THIS SHEET ONLY):

1. TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R': DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
2. TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'E', U.O.N.. EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
3. TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR' REMOVE AND REPLACE EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.
4. FOR THE EXISTING FIRE ALARM SYSTEM: DSA # 03-111734.

GENERAL NOTE:

1. FIELD VERIFY EXACT LOCATIONS OF EXISTING FIRE ALARM INITIATION AND NOTIFICATIONS DEVICES INSIDE CLASSROOM BUILDINGS A, B, C, D, & E AND BUILDINGS F & G.
2. EXISTING FIRE ALARM DEVICES, AS NOTED IN GENERAL NOTE #1, ARE TO BE REMOVED AND RETURNED TO THE DISTRICT. EXISTING BELLS ARE TO REMAIN.

ROOM LEGEND	
#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	CLASSROOM
D-5	CLASSROOM
D-6	LIBRARY

ROOM LEGEND	
#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

ROOM LEGEND	
#	ROOM NAME
F-1	ASSEMBLY CAFETERIA
F-2	STAGE
F-3	KITCHEN
F-4	FACULTY DINING

ROOM LEGEND	
#	ROOM NAME
H-1	WORKROOM
H-2	HEALTH
H-3	GENERAL OFFICE
H-4	CONFERENCE
H-5	PRINCIPAL

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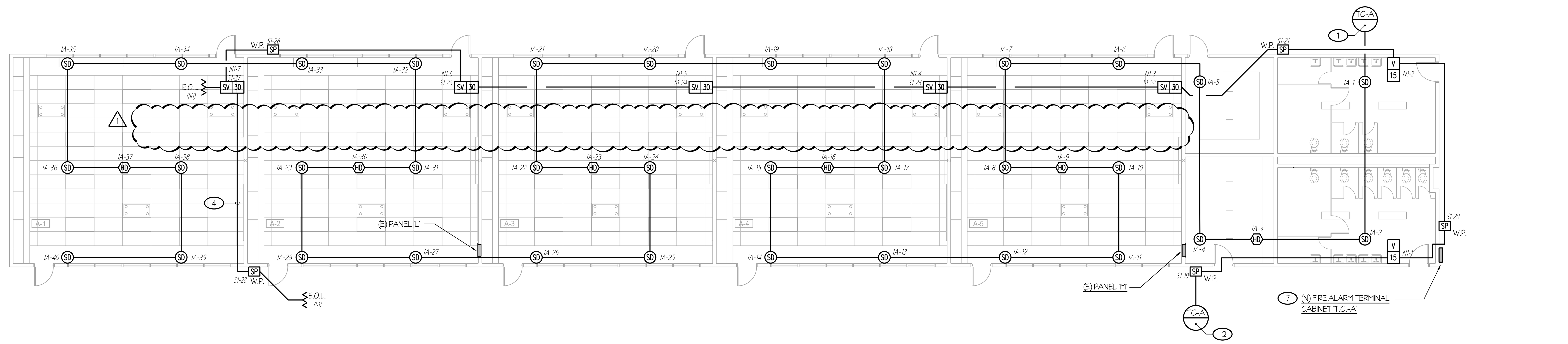
Sheet Title:
DEMOLITION FIRE ALARM PLANS - BLDGS D,E,F,G,& H

Job No.: **5526**

Sheet No.: E3.01

Release: ADDENDUM #2 Issue Date: 05-01-2024

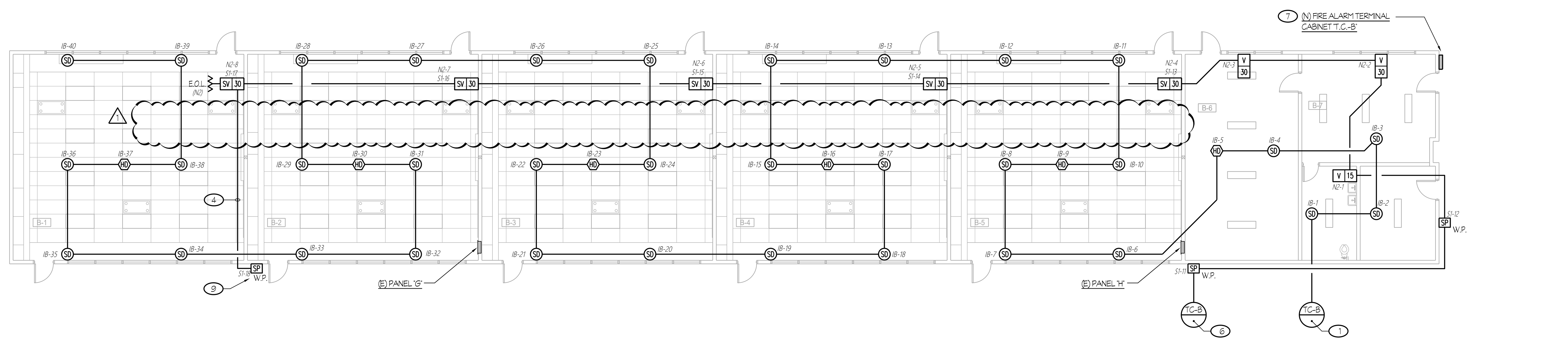
1" = 50'-0"
1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1/8" = 1'-0"
1/4" = 1'-0"



NEW FIRE ALARM PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

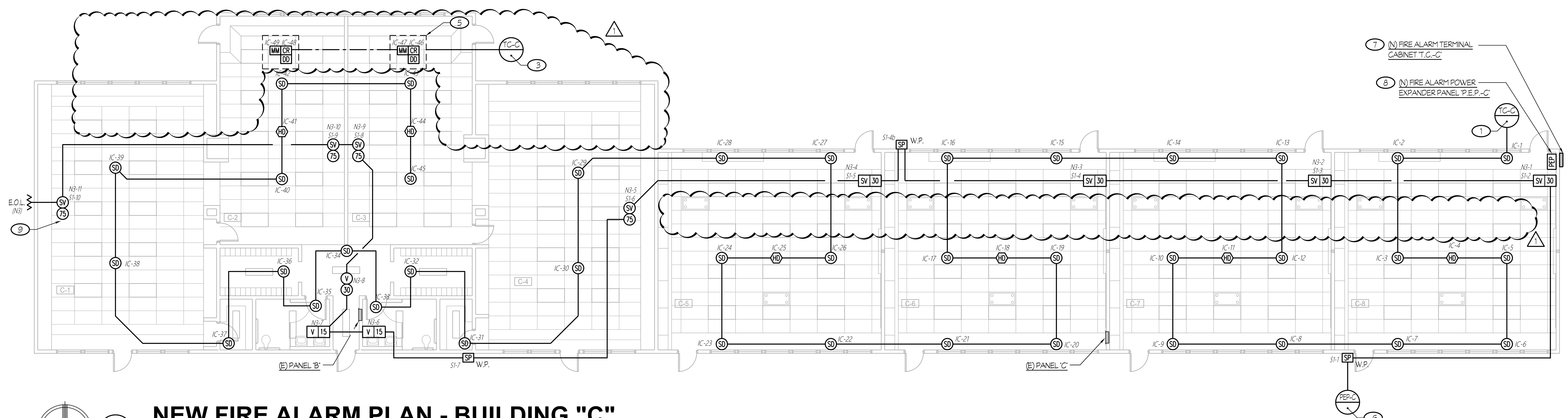
SCALE: 1/8" = 1'-0"



NEW FIRE ALARM PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



NEW FIRE ALARM PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. 1/2"C -ONE "FA" CABLE. TYPICAL FOR INITIATING CIRCUIT.
2. 1/2"C - ONE "FN" CABLE, ONE "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT.
3. 1/2"C - ONE 'FA' CABLE.
4. 3/4"C - TWO "FSP" CABLE.
5. MOUNTED ON ROOF, AT HVAC LOCATIONS. TYPICAL.
6. 1/2"C - ONE "FN" CABLE, TWO "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT IN BUILDINGS "B" AND "C".
7. REFER TO DETAIL #4/E3.22 FOR MOUNTING REQUIREMENTS.
8. REFER TO DETAIL #5/E3.22 FOR MOUNTING REQUIREMENTS.
9. SPEAKER CIRCUIT ROUTED TO THE NEXT BUILDING.

ROOM LEGEND

#	ROOM NAME
A-1	CLASSROOM
A-2	CLASSROOM
A-3	CLASSROOM
A-4	CLASSROOM
A-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
B-1	CLASSROOM
B-2	CLASSROOM
B-3	CLASSROOM
B-4	CLASSROOM
B-5	CLASSROOM
B-6	TEACHERS WORKROOM
B-7	TEACHERS LOUNGE

ROOM LEGEND

#	ROOM NAME
C-1	KINDERGARTEN
C-2	KINDERGARTEN
C-3	KINDERGARTEN
C-4	KINDERGARTEN
C-5	CLASSROOM
C-6	CLASSROOM
C-7	CLASSROOM
C-8	CLASSROOM

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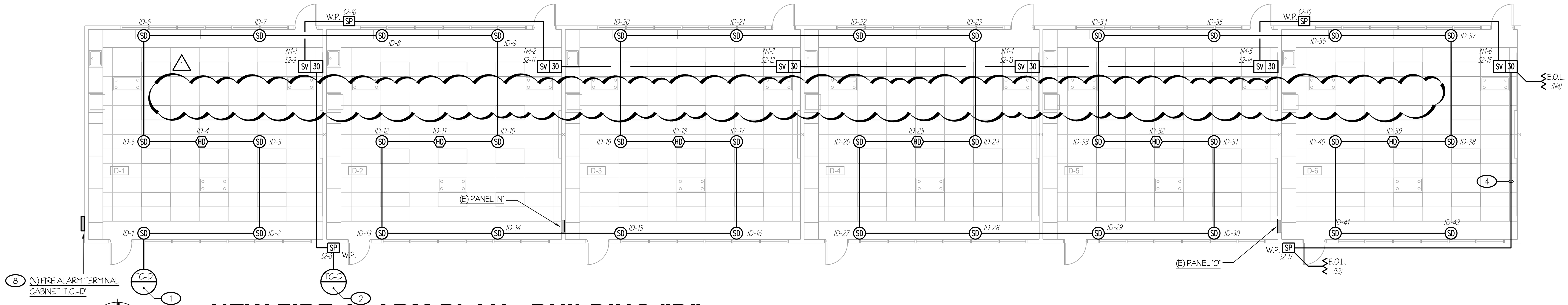
Sheet Title:

NEW FIRE ALARM PLANS BUILDING A, B, & C

Job No.: **5526**

Sheet No.: **E3.10**

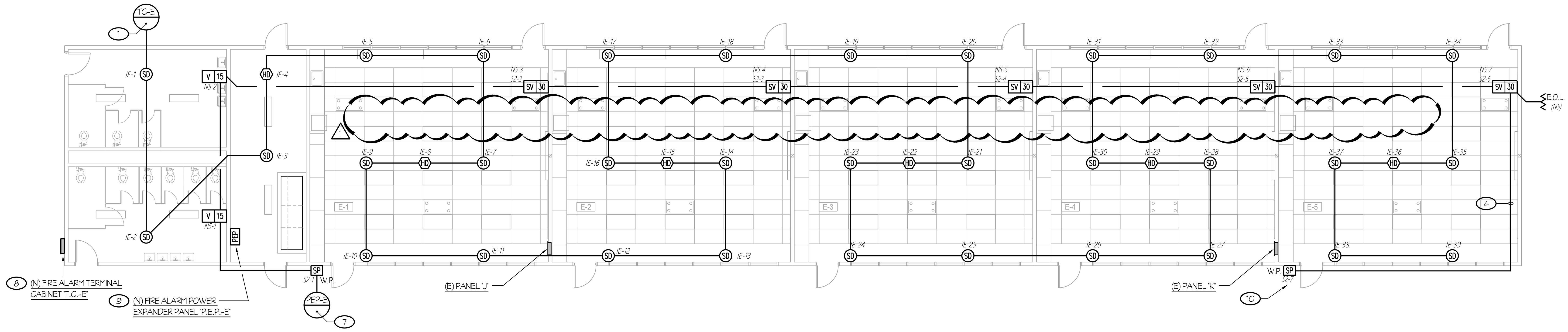
Release: ADDENDUM #2 Issue Date: 05-01-2024



1 NEW FIRE ALARM PLAN - BUILDING "D"

CENTRAL PLANT REPLACEMENT

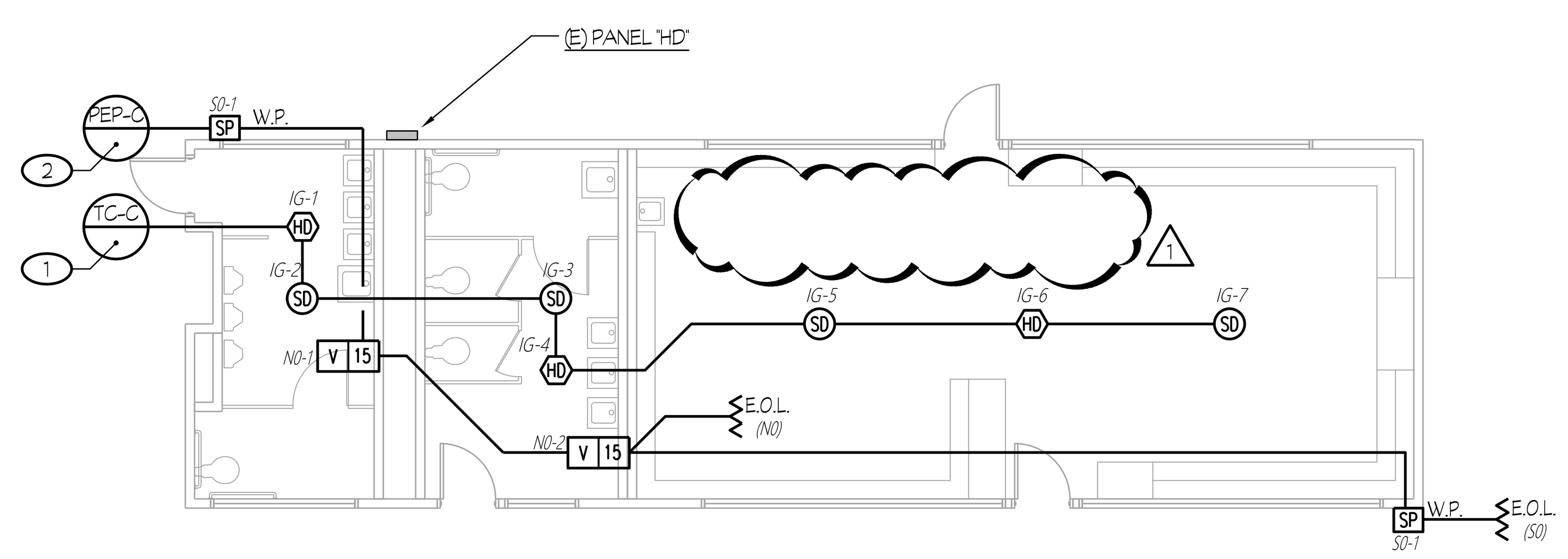
SCALE: 1/8" = 1'-0"



2 NEW FIRE ALARM PLAN - BUILDING "E"

CENTRAL PLANT REPLACEMENT

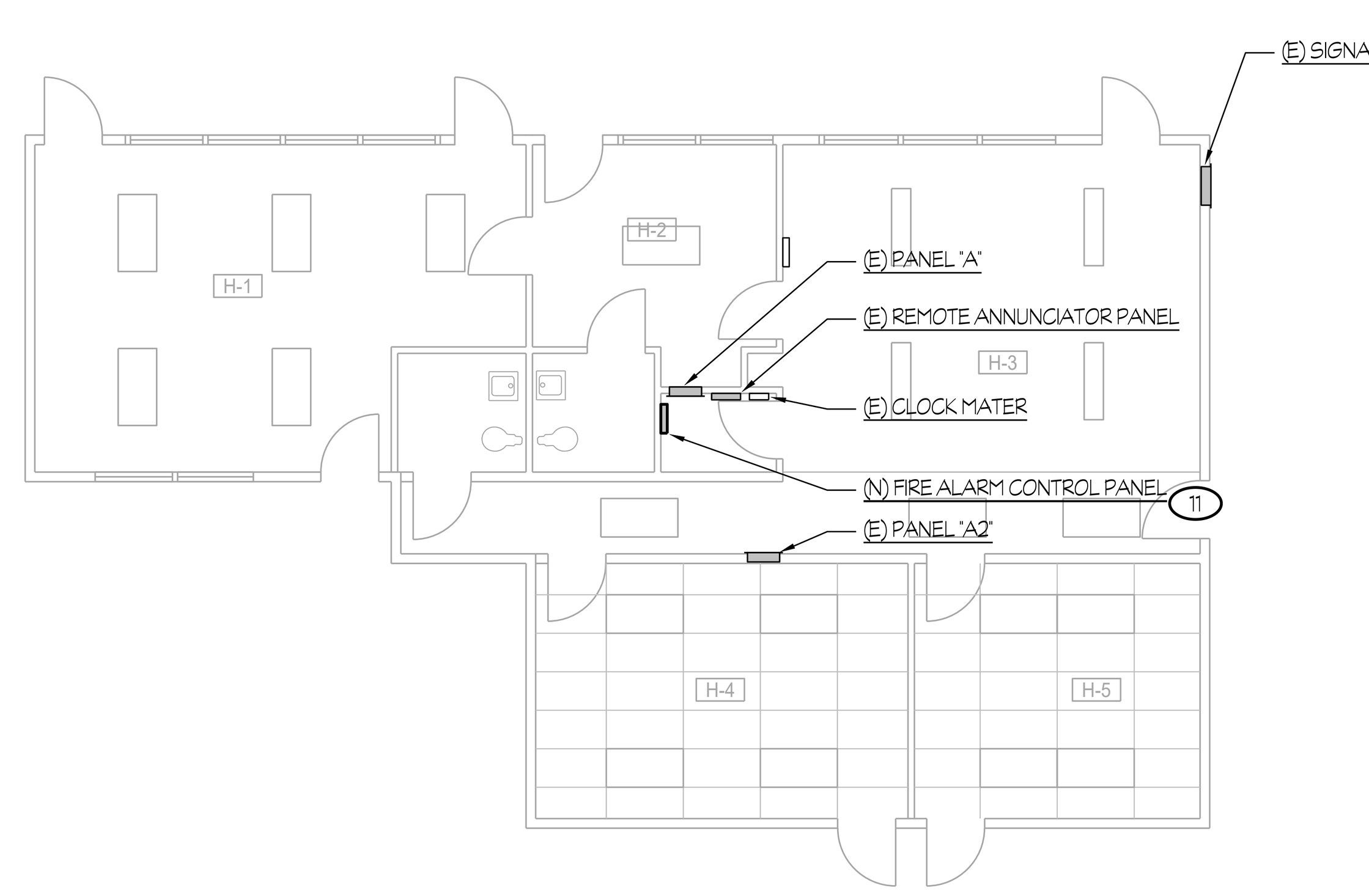
SCALE: 1/8" = 1'-0"



5 NEW FIRE ALARM PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

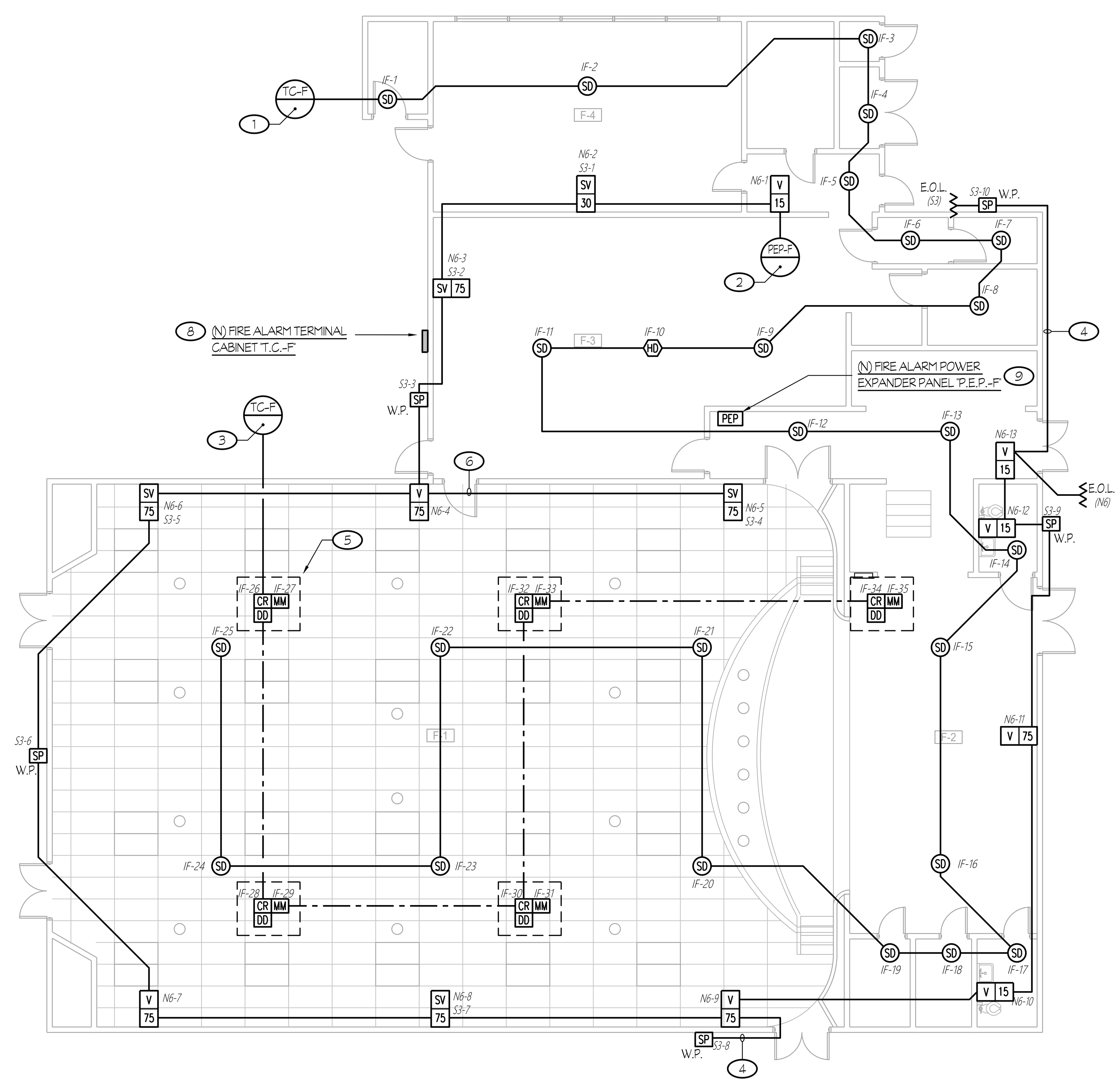
SCALE: 1/8" = 1'-0"



3 NEW FIRE ALARM PLAN - BUILDING "H"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"



4 NEW FIRE ALARM PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

1. 1/2"C -ONE "FA" CABLE. TYPICAL FOR INITIATING CIRCUIT.
2. 1/2"C - ONE "FN" CABLE, ONE "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT.
3. 1/2"C - ONE 'FA' CABLE.
4. 3/4"C - TWO "FSP" CABLE.
5. MOUNTED ON ROOF, AT HVAC LOCATIONS. TYPICAL.
6. 3/4"C - TWO "FN" CABLES, TWO "FSP" CABLES.
7. 1/2"C - ONE "FN" CABLE, TWO "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT IN BUILDING "E".
8. REFER TO DETAIL #4/E3.22 FOR MOUNTING REQUIREMENTS.
9. REFER TO DETAIL #5/E3.22 FOR MOUNTING REQUIREMENTS.
10. SPEAKER CIRCUIT ROUTED TO BUILDING "D".
11. REFER TO DETAIL #6/E3.22 FOR MOUNTING REQUIREMENTS.

ROOM LEGEND

#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	CLASSROOM
D-5	CLASSROOM
D-6	LIBRARY

ROOM LEGEND

#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

ROOM LEGEND

#	ROOM NAME
F-1	ASSEMBLY CAFETERIA
F-2	STAGE
F-3	KITCHEN
F-4	FACULTY DINING

ROOM LEGEND

#	ROOM NAME
H-1	WORKROOM
H-2	HEALTH
H-3	GENERAL OFFICE
H-4	CONFERENCE
H-5	PRINCIPAL

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Sheet Title:

NEW FIRE ALARM PLANS - BLDGS D,E,F,G & H

Job No.: **5526**

Sheet No.: **E3.11**

Release: ADDENDUM #2 Issue Date: 05-01-2024

FIRE ALARM SYSTEM EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MODEL #	CSFM LISTING #	BACKBOX REQUIREMENTS (B)	MOUNTING HEIGHT (TO CENTER, U.O.N.)
FACP	NEW FIRE ALARM CONTROL PANEL "F.A.C.P." WITH SLC EXPANSION	NOTIFIER #NIB/DVC-EM	7165-0028:0516	———	———
NCA / DVC E	EXISTING VOICE EVACUATION PANEL	NOTIFIER #NFC-50/100	6911-0028:0265	———	———
	EXISTING NETWORK CONTROL ANNUNCIATOR WITH COMPONENTS	NOTIFIER #NCA-2			
	NEW OPTIONAL AUDIO AMPLIFIER MODULE	NOTIFIER #NFC-BDA-70V			
	NEW SPEAKER CIRCUIT EXPANDER	NOTIFIER #NFC-CE6			
PEP	FIRE ALARM ADDRESSABLE POWER SUPPLY "A.P.S."	NOTIFIER #ACPS-610	7315-0028:0248	NOTIFIER #EGDR-B4/EGBB-B4	+60" A.F.F.
SD	ADDRESSABLE SMOKE DETECTOR	NOTIFIER #FSP-851/B210LP	7272-0028:0206 7300-1653:0109	4" SQ. x 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING	PER DETAIL #3/E3.22
HD	ADDRESSABLE HEAT DETECTOR, MOUNTED IN ATTIC (190°F)	NOTIFIER #FST-851H/B210LP	7270-0028:0196 7300-1653:0109	4" SQ. x 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING	PER DETAIL #3/E3.22
DD	DUCT SMOKE DETECTOR (BY MECHANICAL CONTRACTOR)	———	———	———	———
MM	ADDRESSABLE MONITOR MODULE	NOTIFIER #FMM-1	7300-0028:0219	4" SQ. x 2 1/8" DP. OUTLET BOX	
CR	ADDRESSABLE RELAY MODULE	NOTIFIER #FRM-1	7300-0028:0219	4" SQ. x 2 1/8" DP. OUTLET BOX	
DMM	ADDRESSABLE DUAL MONITOR MODULE	NOTIFIER #FDM-1	7315-0028:0219	4" SQ. x 2 1/8" DP. OUTLET BOX	
V 15 30, 75, 110	VISUAL STROBE, 15 CANDELA WALL MOUNTED	SYSTEM SENSOR #SRL	7125-1653:0504	4" SQ. x 2 1/8" DP. OUTLET BOX	PER DETAIL #3/E3.22
SV 15 30, 75, 110	SPEAKER/STROBE, WALL MOUNTED (CANDELA RATING AS NOTED)	SYSTEM SENSOR #SPSRL	7320-1653:0505	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #3/E3.22
SV 15 30, 75, 110	SPEAKER/STROBE, CEILING MOUNTED (CANDELA RATING AS NOTED)	SYSTEM SENSOR #SPSCRL	7320-1653:0505	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #3/E3.22
SP W.P.	EXTERIOR SPEAKER, WEATHERPROOF	SYSTEM SENSOR #SPWL-R/#MWBB	7320-1653:0201	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	(C) (D)
(A) E.O.L.	END OF LINE RESISTOR	NOTIFIER	———	———	———
"FA" CABLE	ADDRESSABLE FIRE ALARM CABLE	WEST PENN #3990	7161-0859:0101	———	———
"FSP" CABLE	FIRE ALARM SPEAKER CABLE	WEST PENN #975-BL	7161-0859:0101	———	———
"SFA" CABLE	ADDRESSABLE FIRE ALARM CABLE (OUTDOORS)	WEST PENN #AQ225	7161-0859:0101	———	———
"SFSP CABLE	FIRE ALARM SPEAKER CABLE (OUTDOORS)	WEST PENN #AQ293	7161-0859:0101	———	———

SPEAKER dB LOSS CALCULATIONS

SPEAKER CIRCUIT	SPEAKER VOLTAGE	WIRE SIZE	RESISTANCE PER FOOT	FEET REQUIRED ON CIRCUIT	WIRE RESISTANCE	TOTAL WATTAGE OF SPEAKERS ON CIRCUIT	SPEAKER CURRENT (AMPS)	RESISTANCE OF SPEAKER LOAD	WIRE SIZE	ACTUAL VOLTAGE AT SPEAKER LOAD	ACTUAL WATTS AT SPEAKER LOAD	dB LOSS
S1	70	18	0.01278	125	1.60	4	0.06	1226.00	18	69.909	3.989	-0.01
S1	70	18	0.01278	1400	17.89	40	0.57	122.5	18	61.079	30.454	-1.18
S2	70	18	0.01278	710	9.07	23	0.33	213.04	18	67.140	21.129	-0.36
S3	70	18	0.01278	360	4.60	15	0.21	326.67	18	69.028	14.586	-0.12

NOTE:

CALCULATIONS ARE BASED ON EACH OF THE 'INTERIOR' SPEAKERS TAPPED AT 1 WATT AND EACH OF THE 'EXTERIOR' SPEAKERS TAPPED AT 2 WATTS.

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = VOLTAGE DROP / NOMINAL VOLTAGE x 100

1. NOTIFICATION APPLIANCE CIRCUIT "N1":

V 15 : 2 x 0.043 A = 0.086 A / 0.086 A

VOLTAGE DROP = 2 (1.98) (80 / 1000) (0.086) = 0.027 V.D.

PERCENT VOLTAGE DROP = 0.027 / 24 x 100 = 0.11 %

1. NOTIFICATION APPLIANCE CIRCUIT "N1":

V 15 : 2 x 0.043 A = 0.086 A

SV 30 : 5 x 0.063 A = 0.315 A / 0.401 A

VOLTAGE DROP = 2 (1.98) (265 / 1000) (0.401) = 0.421 V.D.

PERCENT VOLTAGE DROP = 0.421 / 24 x 100 = 1.75 %

1. NOTIFICATION APPLIANCE CIRCUIT "N2":

V 15 : 1 x 0.043 A = 0.043 A

V 30 : 2 x 0.063 A = 0.126 A

SV 30 : 5 x 0.063 A = 0.315 A / 0.484 A

VOLTAGE DROP = 2 (1.98) (275 / 1000) (0.484) = 0.527 V.D.

PERCENT VOLTAGE DROP = 0.527 / 24 x 100 = 2.20 %

1. NOTIFICATION APPLIANCE CIRCUIT "N3":

V 15 : 2 x 0.043 A = 0.086 A

V 30 : 1 x 0.063 A = 0.063 A

SV 30 : 4 x 0.063 A = 0.252 A

SV 75 : 4 x 0.111 A = 0.444 A / 0.845 A

VOLTAGE DROP = 2 (1.98) (425 / 1000) (0.845) = 1.442 V.D.

PERCENT VOLTAGE DROP = 1.442 / 24 x 100 = 5.93 %

1. NOTIFICATION APPLIANCE CIRCUIT "N4":

SV 30 : 6 x 0.063 A = 0.378 A / 0.378 A

VOLTAGE DROP = 2 (1.98) (230 / 1000) (0.378) = 0.344 V.D.

PERCENT VOLTAGE DROP = 0.344 / 24 x 100 = 1.43 %

1. NOTIFICATION APPLIANCE CIRCUIT "N5":

V 15 : 2 x 0.043 A = 0.086 A

SV 30 : 5 x 0.063 A = 0.315 A / 0.401 A

VOLTAGE DROP = 2 (1.98) (215 / 1000) (0.401) = 0.341 V.D.

PERCENT VOLTAGE DROP = 0.341 / 24 x 100 = 1.42 %

1. NOTIFICATION APPLIANCE CIRCUIT "N6":

V 15 : 4 x 0.043 A = 0.172 A

V 75 : 4 x 0.107 A = 0.428 A

SV 30 : 1 x 0.063 A = 0.063 A

SV 75 : 4 x 0.107 A = 0.428 A / 1.091 A

VOLTAGE DROP = 2 (1.98) (330 / 1000) (1.091) = 1.426 V.D.

PERCENT VOLTAGE DROP = 1.426 / 24 x 100 = 5.94 %

NOTES (FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS):

(A) END OF LINE RESISTORS SHALL BE 10K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM CONTROL PANEL, AND 2.2K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM POWER EXPANDER PANELS.

(B) VERIFY BACKBOX REQUIREMENTS WITH THE FIRE ALARM SYSTEM EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

(C) PROVIDED WITH WEATHERPROOF BACKBOX #SBLP.

(D) SEE RESPECTIVE FIRE ALARM PLAN FOR MOUNTING HEIGHT.

EXISTING FIRE ALARM DIGITAL VOICE COMMAND "D.V.C" BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH	SUPV. CURRENT SUB-TOTAL	ALARM CURRENT EACH	ALARM CURRENT SUB-TOTAL
EXISTING COMPONENTS	1	0.457	0.457	0.678	0.678
NEW AUDIO AMPLIFIER "DAPS"	1	0.100	0.100	0.235	0.235
NEW SPEAKER CIRCUIT EXPANDER	1	0.020	0.020	0.189	0.189
TOTALS			0.577		1.102

TOTAL ALARM CURRENT OF 1.102 x 0.250 (15 MINUTES) = 0.275 A.H.
TOTAL SUPERVISORY CURRENT OF 0.577 x 24 HOURS = 13.848 A.H.
TOTAL AMP HOURS REQUIRED 14.123 A.H.
x 1.2 SAFETY FACTOR
16.948 A.H.

PROVIDE 18.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

FIRE ALARM CONTROL PANEL "F.A.C.P." BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH	SUPV. CURRENT SUB-TOTAL	ALARM CURRENT EACH	ALARM CURRENT SUB-TOTAL
FIRE ALARM CONTROL PANEL	1	0.390	0.390	0.390	0.390
POWER EXPANDER PANEL	3	0.00013	0.00039	0.00013	0.00039
SMOKE DETECTOR	204	0.0003	0.0612	0.0065	1.326
HEAT DETECTOR	34	0.0003	0.0102	0.0065	0.221
MONITOR MODULE	7	0.000375	0.0026	0.005	0.035
CONTROL RELAY	7	0.00023	0.0016	0.0065	0.046
TOTALS			0.466		2.018

TOTAL ALARM CURRENT OF 2.018 x 0.250 (15 MINUTES) = 0.505 A.H.
TOTAL SUPERVISORY CURRENT OF 0.466 x 24 HOURS = 11.184 A.H.
TOTAL AMP HOURS REQUIRED 11.689 A.H.
x 1.2 SAFETY FACTOR
14.027 A.H.

PROVIDE 18.0 AMP HOUR BATTERIES

FIRE ALARM SYSTEM GENERAL NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72 14.6.2.4 AND FIGURE 7.8.2(a) AND READ OUT VERIFICATION FORM FROM CENTER STATION.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 120" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN FOR A FIRE ALARM SIGNAL. AUDIBLE DEVICES SHALL ALSO SOUND A TEMPORAL CODE 4 PATTERN FOR A CARBON MONOXIDE SIGNAL. THE EXISTING FIRE ALARM CONTROL PANEL WILL PRODUCE/GENERATE BOTH SIGNALS.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 85 FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FROM FIRE SPRINKLERS OR 3 FROM ANY SUPPLY DIFFUSER, IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/ CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILING, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE 'ON' POSITION. THE CIRCUIT BREAKER SHALL BE LABELED 'FIRE ALARM CIRCUIT CONTROL'. CIRCUIT ID TO BE LABELED AT FIRE PANELS/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED 'SYSTEM RECORD OF COMPLETION' PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 907.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
27. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF MODIFICATIONS AT BOTH THE FIRE ALARM CONTROL PANEL "F.A.C.P. #A", AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R".
    A. THE PRIMARY POWER SUPPLY TO EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A", TO EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND TO EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R" SHALL BE IN ACCORDANCE WITH NFPA 72 10.6.5 AND AS FOLLOWS:
        a) THE CIRCUIT BREAKER FEEDING THE RESPECTIVE PANEL SHALL BE LOCATED IN A LOCKED ROOM OR BEHIND A LOCKABLE DOOR AND BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY.
        b) THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PAINT LOCK-ON ACCESSORY "RED" IN COLOR.
        c) THE CIRCUIT BREAKER SHALL HAVE AN ENGRAVED NAMEPLATE THAT IDENTIFIES IT AS A "FIRE ALARM CIRCUIT". THIS ENGRAVED NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. MOUNT ONTO THE INTERIOR TRIM AND LOCATE ADJACENT TO CIRCUIT BREAKER WHERE POSSIBLE.
        d) THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A", AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R". PROVIDE AN ENGRAVED NAMEPLATE (WHITE LETTERS ON A RED BACKGROUND) WHICH INDICATES THIS.
    B. ALL ENGRAVED NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF THE RESPECTIVE ENCLOSURE WITH SCREWS OR RIVETS.
28. PROVIDE A COPY OF THE BATTERY CALCULATION AT EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A", AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R". BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.

FIRE ALARM POWER EXPANDER PANEL "P.E.P. -C" BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH	SUPV. CURRENT SUB-TOTAL	ALARM CURRENT EACH	ALARM CURRENT SUB-TOTAL
POWER EXPANDER PANEL	1	0.120	0.120	0.120	0.120
15cd STROBE (WALL)	7	———	———	0.043	0.301
30cd STROBE (WALL)	3	———	———	0.063	0.189
(A) SPEAKER/30cd STROBE (WALL)	14	———	———	0.063	0.882
(A) SPEAKER/75cd STROBE (CEILING)	4	———	———	0.111	0.444
TOTALS			0.120		1.936

TOTAL ALARM CURRENT OF 1.936 x 0.250 (15 MINUTES) = 0.484 A.H.
TOTAL SUPERVISORY CURRENT OF 0.120 x 24 HOURS = 2.88 A.H.
TOTAL AMP HOURS REQUIRED 3.364 A.H.
x 1.2 SAFETY FACTOR
4.04 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

FIRE ALARM POWER EXPANDER PANEL "P.E.P. -F" BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH	SUPV. CURRENT SUB-TOTAL	ALARM CURRENT EACH	ALARM CURRENT SUB-TOTAL
POWER EXPANDER PANEL	1	0.120	0.120	0.120	0.120
15cd STROBE (WALL)	4	———	———	0.043	0.172
75cd STROBE (WALL)	4	———	———	0.107	0.428
(A) SPEAKER/30cd STROBE (WALL)	1	———	———	0.063	0.063
(A) SPEAKER/75cd STROBE (WALL)	30	———	———	0.107	0.428
TOTALS			0.120		1.211

TOTAL ALARM CURRENT OF 1.211 x 0.250 (15 MINUTES) = 0.303 A.H.
TOTAL SUPERVISORY CURRENT OF 0.120 x 24 HOURS = 2.88 A.H.
TOTAL AMP HOURS REQUIRED 3.183 A.H.
x 1.2 SAFETY FACTOR
3.82 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3 AND THEN FOLLOWED BY ANY VOICE MESSAGES.

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3, CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING FIRE AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM 'CERTIFICATE OF COMPLETION' FORM IN NFPA 72 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

SCOPE OF WORK

1. CONNECT NEW DEVICES TO EXISTING AUTOMATIC FIRE ALARM SYSTEM FOR AREAS OF REMODEL INCLUDING INITIATING AND NOTIFICATION DEVICES.
2. PROVIDE FIRE ALARM POWER EXPANDER PANELS, ADDRESSABLE INITIATION DEVICES NOTIFICATION APPLIANCES, CONDUIT, CABLING, AND CONDUCTORS AS SHOWN ON THE DRAWINGS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

THE SCHOOL DISTRICT SHALL PROVIDE A ON-SITE 'FIRE WATCH' IN THE EVENT THAT THE EXISTING FIRE ALARM SYSTEM IS IMPAIRED AND/OR INTERRUPTED DURING CONSTRUCTION PER CALIFORNIA FIRE CODE, SECTION 3304, ARTICLE 3304.5.

FIRE ALARM POWER EXPANDER PANEL "P.E.P. -E" BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH	SUPV. CURRENT SUB-TOTAL	ALARM CURRENT EACH	ALARM CURRENT SUB-TOTAL
POWER EXPANDER PANEL	1	0.120	0.120	0.120	0.120
15cd STROBE (WALL)	2	———	———	0.043	0.086
(A) SPEAKER/30cd STROBE (WALL)	11	———	———	0.063	0.693
TOTALS			0.120		0.899

TOTAL ALARM CURRENT OF 0.899 x 0.250 (15 MINUTES) = 0.225 A.H.
TOTAL SUPERVISORY CURRENT OF 0.120 x 24 HOURS = 2.88 A.H.
TOTAL AMP HOURS REQUIRED 3.105 A.H.
x 1.2 SAFETY FACTOR
3.73 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

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Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER — ROSE SING KIRK EASTHAM — No. E-18786 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
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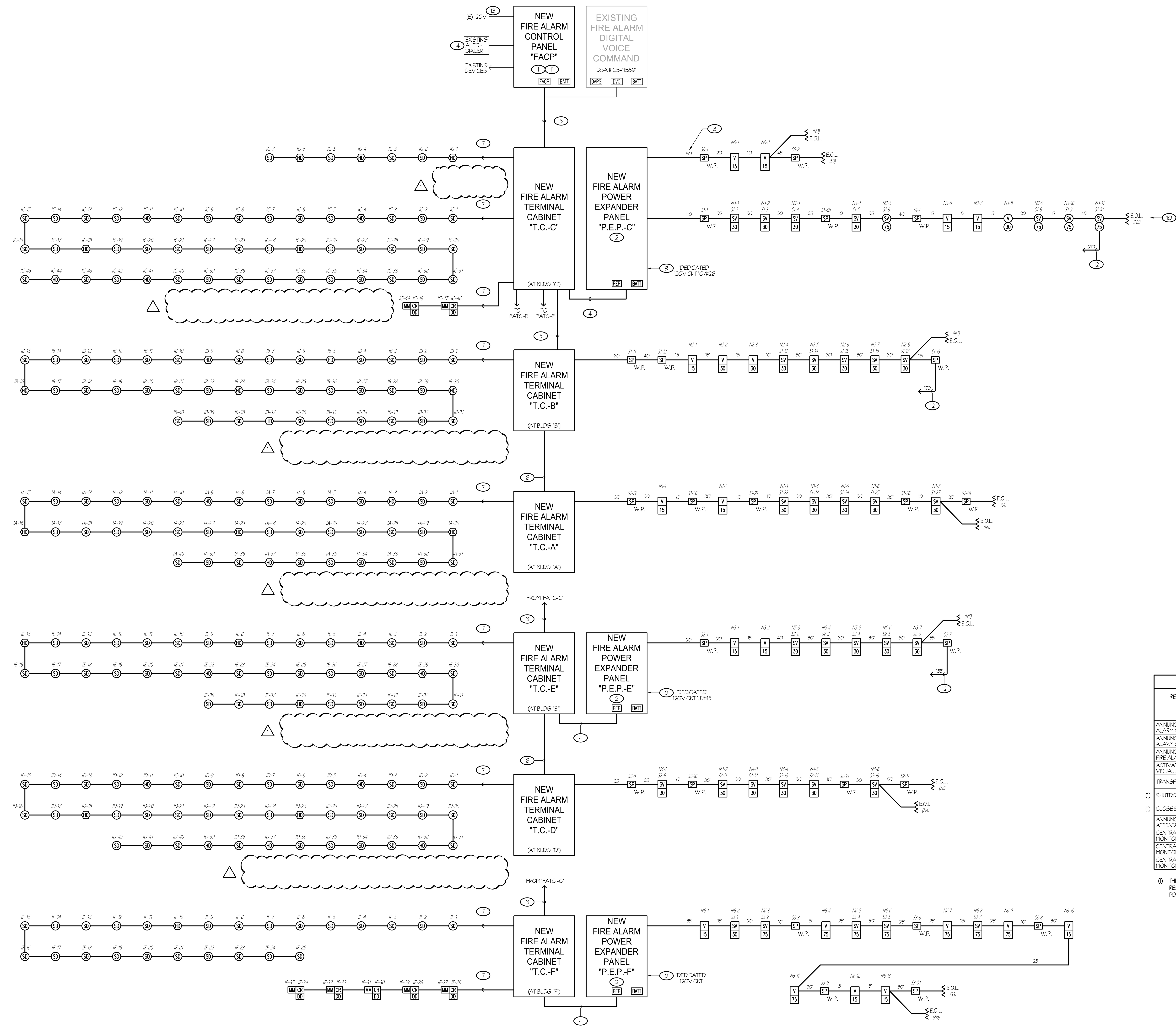
FIRE ALARM CODES, NOTES, SYMBOLS, CALCS

Job No.: **5526**

Sheet No.: **E3.20**

Release: ADDENDUM #2 Issue Date: 05-01-2024



NOTES (THIS SHEET ONLY):

1. PROVIDE ALL PROGRAMMING NECESSARY FOR NEW COMPONENTS AND EXISTING FIRE ALARM DEVICES AS REQUIRED.
2. PROVIDE BATTERIES PER RESPECTIVE BATTERY CALCULATION.
3. 1"C - TWO "SFA" CABLES, ONE 'SFSP' CABLE .
4. 1"C - ONE "SFA" CABLE + ONE 'SFSP' CABLE.
5. 1"C - ONE 'SFA' CABLE, ONE 'SFSP' CABLES, 4 #12 (NAC).
6. 1"C - ONE 'SFA' CABLE, ONE 'SFSP' CABLE, 2 #12 (NAC).
7. REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLING/CONDUCTOR REQUIREMENTS. TYPICAL.
8. LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ONLY AND BASED UPON THE 'DIAGRAMMATIC' LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
9. CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PROVIDE AN ENGRAVED NAMEPLATE: "FIRE ALARM - LEAVE ON". NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. PAINT LOCK-ON ACCESSORY 'RED' IN COLOR.
10. DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS "B" WIRING). TYPICAL.
11. IF THREE SPARE SPEAKER CIRCUITS NOT AVAILABLE, ADD ANOTHER CARD TO FACP.
12. SPEAKER CIRCUIT ROUTED TO NEXT BUILDING.
13. RECONNECT EXISTING 120V CIRCUIT TO NEW F.A.C.P. AS REQUIRED. PROVIDE RED LOCK-ON DEVICE AT PANEL AND PROVIDE ENGRAVED LABEL "FIRE ALARM".
14. RECONNECT EXISTING AUTO-DIALER FOR MONITORING OF FIRE ALARM SYSTEM. COORDINATE WITH MONITORING COMPANY AND OWNER PRIOR TO ANY CHANGES.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

RESULT OF OPERATION	TYPE OF INITIATION				
	AREA SMOKE/ HEAT DETECTOR (1)	LOW BATTERY / LOSS OF POWER	SHORT CIRCUIT/ GROUND FAULT	SMOKE DETECTOR FOR DOOR RELEASING	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL	YES	———	———	YES	YES
ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL	———	YES	YES	———	———
ANNUNCIATE SUPERVISORY AT FIRE ALARM CONTROL PANEL	———	———	———	———	———
ACTIVATE ALL AUDIBLE AND VISUAL ALARM SIGNALS	YES	———	———	YES	YES
TRANSFER TO BATTERY BACK-UP	———	YES	———	———	———
(1) SHUTDOWN RESPECTIVE A/C UNIT	YES	———	———	———	———
(1) CLOSE SMOKE/FIRE DAMPER	YES	YES	———	———	———
ANNUNCIATE AT 24 HR. ATTENDED LOCATION	YES	YES	———	———	YES
CENTRAL STATION FOR MONITORING (ALARM)	YES	———	———	———	YES
CENTRAL STATION FOR MONITORING (TROUBLE)	———	YES	———	———	———
CENTRAL STATION FOR MONITORING (SUPERVISORY)	———	———	———	———	———

(1) THIS OPERATION SHALL BE ACCOMPLISHED BY UTILIZING THE TOTAL SMOKE COVERAGE SYSTEM TO ACTIVATE THE RESPECTIVE RELAY MODULE. THE CONTACTS SHALL BE PROGRAMMED TO "OPEN", THUS DE-ENERGIZING THE 120V POWER RO THE ACTUATOR OF THE SMOKE/FIRE DAMPER OR "OPENING" THE H.V.A.C. CONTROL CIRCUIT.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

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Stamp:

Sheet Title:

FIRE ALARM SYSTEM RISER DIAGRAM

Job No.: 5526

Sheet No.: E3.21

Release: ADDENDUM #2 Issue Date: 05-01-2024

120/208V, 3 PH, 4 W
100 A. BUSSING 90 A. MAIN BKR.
42 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISITNG PANEL "B"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				RECEPT	(E) LOAD				20/1	2	
3	20/1				RECEPT	LIGHTS - K2 / K2B				20/1	4	
5	20/1				RECEPT	HEATER - E. RM				20/1	6	
7	20/1				LIGHTS - ENTRY / BATH.	SPARE				20/1	8	
9	20/1				RECEPT	HEATER - E. CENTER RM				20/1	10	
11	20/1				SPARE	RECEPT -E. KINDERGARTEN				20/1	12	
13	20/1				LIGHTS - K1 / K1B	LIGHTS - N., SOFFIT				20/1	14	
15	20/1				HEATER - W. RM	RECEPT - S.W. WALL				20/1	16	
17	20/1				HEATER - CENTER W. RM	SPARE				20/1	18	
19	20/1				(E) LOAD	(E) LOAD				20/1	20	
21	20/2				WEST HAND DRYER	EAST HAND DRYER				20/2	22	
23											24	
25	50/2				WEST END TRAILER	SPACE					26	
27						SPACE					28	
(B) 29	20/1			720	RECEPT - ROOF	SPACE					30	
31					SPACE	SPACE					32	
33					SPACE	SPACE					34	
35					SPACE	SPACE					36	
37					SPACE						38	
39					SPACE	MAIN				90/3	40	
41					SPACE						42	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "C"

120/208V, 3 PH, 4 W
70 A. BUSSING 100 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "G"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				HEATER - RM 14	LIGHTS - RM 12				20/1	2	
3	20/1				LIGHTS - RM 14	HEATER - RM 12				20/1	4	
5	20/1				RECEPT - RM 14	LIGHTS - RM 13				20/1	6	
7	20/1				SPARE	HEATER - RM 13				20/1	8	
(B) 9	20/1		1440		RECEPT-T.WALL-RM 12,13	(E) LOAD				20/1	10	
(B) 11	20/1			720	RECEPT-T.WALL-RM 14	RECEPT - ROOF	900			20/1	12	
13	20/1				RECEPT - RM 12, 13	IDU-B1A, IDU-B1B			110	15/2	14	(B)
15	20/1				RECEPT - RM 12, 13			110			16	
17	20/1				RECEPT - RM 12, 13	ODU-B1	3744			50/2	18	
19	30/1				SPARE				3744		20	
(B) 21	20/2		1664		ODU-B2, IDU-B2					_/2	22	
23				1664		NOT IN USE					24	
25						SPACE					26	
27	100/3				MAIN	SPACE					28	
29						SPACE					30	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "B"

120/208V, 3 PH, 4 W
70 A. BUSSING 70 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "C"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				HEATER - RM 24	HEATER - RM 25				20/1	2	
3	20/1				LIGHTS - RM 24	LIGHTS - RM 25				20/1	4	
5	20/1				(E) LOAD	LIGHTS - RM 22				20/1	6	
7	20/1				HEATER - RM 23	HEATER - RM 22				20/1	8	
9	20/1				LIGHTS - RM 23	(E) LOAD				20/1	10	
11	20/1				RECEPT-S&E WALL, RM 23,24,25	(E) LOAD				20/1	12	
13	20/1				RECEPT- S&E WALL, RM 22	RECEPT - W. WALL, RM 24,25				20/1	14	
15	20/1				(E) LOAD	FLOOD LIGHTS - OUTDOOR				20/1	16	
17	20/1				LIGHTS - CORRIDOR	RECEPT - W. WALL, RM 22,23				20/1	18	
19	20/1				(E) LOAD	(E) LOAD				20/1	20	
(B) 21	20/1		1440		RECEPT-T.WALL-RM 22,23	PRE - K				100/2	22	
(B) 23	20/1			1440	RECEPT-T.WALL-RM 24,25						24	
25						FIRE ALARM "P.E.P.-C"				20/1	26	(A), (B)
27	70/3				MAIN	RECEPT - ROOF		720		20/1	28	(B)
29						RECEPT-HVAC REPEATER				20/1	30	(B)

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "C"

120/208V, 3 PH, 4 W
70 A. BUSSING 100 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "H"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				HEATER - RM 16	HEATER - RM 15				20/1	2	
3	20/1				LIGHTS - RM 16	LIGHTS - RM 15				20/1	4	
5	20/1				HEATER - T.L.	RECEPT - S.WALL, T.L.				20/1	6	
7	20/1				LIGHTS - T.L.	LIGHTS-SINK,RECEPT-RM 16				20/1	8	
9	20/1				LIGHTS - CUSTODIAN, T.L.	LIGHTS - CORRIDOR				20/1	10	
11	20/1				RECEPT - E.WALL- RM 15/16	RECEPT - TEA. RM.				20/1	12	
13	20/1				(E) LOAD	RECEPT - TEA. RM.				20/1	14	
15	20/1				RECEPT - RM 15 / 16	POWER POLE				20/1	16	
17	20/1				LAM. MACHINE	(E) LOAD				20/1	18	
19	20/1				COPY MACHINE	HICAP				20/1	20	
21	20/1				COPY MACHINE	COMPUTERS				20/1	22	
(B) 23	20/1			1440	RECEPT-T.WALL-RM 15,16	(E) LOAD				20/1	24	
25						RECEPT-HVAC REPEATER				20/1	26	(B)
27	100/3				MAIN	SPACE					28	
29						SPACE					30	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "B"

120/208V, 3 PH, 4 W
70 A. BUSSING 100 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "L"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				HEATER - RM 2	HEATER - RM 1				20/1	2	
3	20/1				LIGHTS - RM 2	LIGHTS - RM 1				20/1	4	
5	20/1				LIGHTS - RM 3	RECEPT - RM 3				20/1	6	
7	20/1				HEATER - RM 3	(E) LOAD				20/1	8	
9	20/1				RECEPT - RM 1, 2	(E) LOAD				20/1	10	
11	20/1				SOFFIT - RM 3	(E) LOAD				20/1	12	
13	20/1				RECEPT - RM 1, 2	(E) LOAD				20/1	14	
15	20/1				(E) LOAD	(E) LOAD				20/1	16	
17	40/1				(E) LOAD						18	
19	25/2				NOT IN USE	SPACE					20	
21						RECEPT - T. WALL-RM 1,2		1440		20/1	22	(B)
23						RECEPT - T. WALL-RM 3	720			20/1	24	(B)
25						SPACE					26	
27						SPACE				100/3	28	
29						SPACE					30	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

120/208V, 3 PH, 4 W
50 A. BUSSING 50 A. MAIN BKR.
18 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "M"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				(E) LOAD	(E) LOAD				20/1	2	
3	20/1				(E) LOAD	(E) LOAD				20/1	4	
5	20/1				(E) LOAD	(E) LOAD				20/1	6	
7	20/1				(E) LOAD	(E) LOAD				20/1	8	
9	20/1				(E) LOAD	(E) LOAD				20/1	10	
11	20/1				(E) LOAD	(E) LOAD				20/1	12	
(B) 13	20/1	1440			RECEPT - T. WALL-RM 4,5						14	
(B) 15	20/1		900		RECEPT - ROOF	MAIN				50/3	16	
(B) 17	20/1				RECEPT-HVAC REPEATER						18	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

120/208V, 3 PH, 4 W
100 A. BUSSING MLO
18 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "HDA"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/2				BOYS WEST HD	RECEPT - W. WALL				20/1	2	
3						GIRLS EAST HD				20/2	4	
5	20/2				BOYS EAST HD						6	
7						RECEPT - N. WALL				20/1	8	
9	20/2				GIRLS WEST HD	SPARE				20/1	10	
11						CONDENSOR AC - ROOF				30/2	12	
13	20/2				COMP. RM. AC INDOOR UNIT						14	
15						RECEPT - S.WALL, IDF PANEL				20/1	16	
17						SPACE					18	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "A"

120/208V, 3 PH, 4 W
50 A. BUSSING 50 A. MAIN BKR.
18 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "J"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				LIGHTS - RM. 18	(E) LOAD				20/1	2	
3	20/1				HEATER - RM. 18	LIGHTS-CUSTODIAN, BOYS, GIRLS				20/1	4	
5	20/1				RECEPT-EAST WALL, RM18	SINK LIGHTS, TV, RM 17&18				20/1	6	
7	20/1				RECEPT-EAST WALL, RM17	LIGHTS - RM. 17				20/1	8	
9	20/1				A-H, RM 17	HEATER - RM.17				20/1	10	
11	20/1				RECEPT - LIBRARY	LIGHTS - CORRIDOR				20/1	12	
(B) 13	20/1	1440			RECEPT-T.WALL-RM 17,18						14	
(A), (B) 15	20/1				FIRE ALARM "P.E.P.-E"	MAIN				50/3	16	
(B) 17	20/1		900		RECEPT - ROOF						18	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "E"

120/208V, 3 PH, 4 W
70 A. BUSSING 70 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "K"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				LIGHTS - RM 19	LIGHTS - RM 21				20/1	2	
3	20/1				HEATER, RECEPT - RM 19	HEATER - RM 21				20/1	4	
5	20/1				RM 21	LIGHTS - RM 20				20/1	6	
7	20/1				RECEPT,W. CLOSET-RM19, 20, 21	RECEPT - RM 20				20/1	8	
9	20/1				RECEPT,W. CLOSET-RM19, 20, 21	HEATER, RECEPT - RM 20				20/1	10	
11	20/1				(E) LOAD	RECEPT - SOUTHEAST				20/1	12	
13	20/1				(E) LOAD	(E) LOAD				20/1	14	
15	20/1				(E) LOAD	(E) LOAD				20/1	16	
17	20/1				(E) LOAD	(E) LOAD				20/1	18	
(B) 19	20/1	1440			RECEPT-T.WALL-RM 19,20	SPACE					20	
(B) 21	20/1		720		RECEPT-T.WALL-RM 21	SPACE					22	
23					SPACE	SPACE					24	
25						SPACE					26	
27	70/3				MAIN	SPACE					28	
29						SPACE					30	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

120/208V, 3 PH, 4 W
100 A. BUSSING MLO MAIN BKR.
18 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "HD"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/2				GIRLS WEST HD	MDF PANEL IN "IMC"				20/1	2	
3						BOYS WEST HD				20/2	4	
5	20/2				GIRLS EAST HD						6	
7						RECEPT - N. WALL				20/1	8	
9	20/2				BOYS EAST HD	IDF PANEL - PARENT RM				20/1	10	
11						RECEPT - COMPUTER				20/1	12	
13	30/2				(E) LOAD	(E) LOAD				20/1	14	
15						ODU-G1, IDU-G1		3120		50/2	16	(B)
(B) 17	20/1		180		RECEPT - ROOF			3120			18	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "G"

120/208V, 3 PH, 4 W
70 A. BUSSING 70 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "N"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				LIGHTS - CORRIDOR	HEATER - RM 8				20/1	2	
3	20/1				LIGHTS - CORRIDOR	LIGHTS - RM 8				20/1	4	
5	20/1				LIGHTS - RM 7	LIGHTS - RM 6				20/1	6	
7	20/1				HEATER - RM 7	HEATER - RM 6				20/1	8	
9	20/1				NOT IN USE	(E) LOAD				20/1	10	
11	20/1				(E) LOAD	RECEPT				20/1	12	
13	20/1				RECEPT - RM 8	RECEPT				20/1	14	
15	20/1				FLOOD LIGHTS	RECEPT				20/1	16	
17	20/1				(E) LOAD	(E) LOAD				20/1	18	
19	20/1									70/3	20	
(B) 21	20/1				RECEPT-HVAC REPEATER	RECEPT-T.WALL-RM 6,7		1440		20/1	22	(B)
23					SPACE	RECEPT-T.WALL-RM 8	720			20/1	24	(B)
25					SPACE						26	
27					SPACE	MAIN					28	
29					SPACE						30	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "D"

120/208V, 3 PH, 4 W
70 A. BUSSING 70 A. MAIN BKR.
30 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING PER _/___

EXISTING PANEL "O"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				HEATER - RM 9	HEATER - RM 10				20/1	2	
3	20/1				LIGHTS - RM 9	LIGHTS - RM 10				20/1	4	
5	20/1				RECEPT - S.E. RM 11	LIGHTS - RM 11				20/1	6	
7	20/1				RECEPT - S.E. RM 9/10	HEATER - RM 11				20/1	8	
9	20/1				(E) LOAD	(E) LOAD				20/1	10	
11	20/1				(E) LOAD	(E) LOAD				20/1	12	
13	20/1				(E) LOAD	(E) LOAD				20/1	14	
15	20/1				(E) LOAD	(E) LOAD				20/1	16	
17	50/2				TEMP CLASSROOM						18	
19						MAIN				70/3	20	
21						SPACE					22	
23						SPACE	RECEPT-T.WALL-RM 9,10	1440		20/1	24	(B)
25						SPACE	RECEPT-T.WALL-RM 11		720	20/1	26	(B)
27						SPACE	RECEPT-ROOF		1080	20/1	28	(B)
29						SPACE	SPACE				30	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "B"

120/208V, 3 PH, 4 W
225 A. BUSSING 175 A. MAIN BKR.
42 CIRCUIT

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING

EXISTING PANEL "F"

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT	
1	20/1				(E) LOAD	(E) LOAD				20/1	2	
3	20/1				(E) LOAD	NOT IN USE				20/1	4	
5	20/1				(E) LOAD	(E) LOAD				20/1	6	
7	20/1				(E) LOAD	(E) LOAD				20/1	8	
9	20/1				(E) LOAD	(E) LOAD				20/1	10	
11	20/1				(E) LOAD	(E) LOAD				20/1	12	
13	20/1				(E) LOAD	(E) LOAD				20/1	14	
15	20/1				(E) LOAD	(E) LOAD				20/1	16	
17	20/1				(E) LOAD	(E) LOAD				20/1	18	
19	20/1				(E) LOAD	(E) LOAD				20/1	20	
21	20/1				NOT IN USE	FIRE ALARM "P.E.P.-F"				20/1	22	(A), (B)
23	20/1				NOT IN USE	RECEPT-HVAC REPEATER				20/1	24	(B)
25	20/1				NOT IN USE	NOT IN USE				20/1	26	
27	20/1				(E) LOAD	(E) LOAD				20/1	28	
29	20/1				(E) LOAD	(E) LOAD				20/1	30	
31	20/1				NOT IN USE	(E) LOAD				20/1	32	
33	20/1				(E) LOAD	(E) LOAD				20/1	34	
35	20/1				(E) LOAD	(E) LOAD				20/1	36	
37	20/1				(E) LOAD						38	
39	20/2				(E) LOAD	(E) LOAD				50/3	40	
41											42	

LOAD SUMMARY	A	B	C
CONNECTED LOAD (VA) :			
25% LCL/LML (VA) :			
TOTAL LOAD (VA) :			
TOTAL LOAD (AMPS) :			

TOTAL CALCULATED LOAD FOR PANEL:

BUILDING "F"

TYPICAL PANEL SCHEDULE NOTES:

(A) PROVIDE A LOCK-ON DEVICE AT THIS CIRCUIT BREAKER, 'RED IN COLOR', SPACEAGE #ELOCK-FA OR EQUAL. PROVIDE AN ENGRAVED NAMEPLATE: 'FIRE ALARM CIRCUIT', WHITE LETTERS ON A RED BACKGROUND. MOUNT NAMEPLATE ONTO INTERIOR TRIM AND ADJACENT TO CIRCUIT BREAKER.

(B) FURNISH AND INSTALL NEW CIRCUIT BREAKER MATCHING EXISTING BOARD IN STYLE, TYPE, AND AIC RATING.

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER ROSE SING EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
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Stamp:

Sheet Title:

PANEL SCHEDULES

Job No.: **5526**

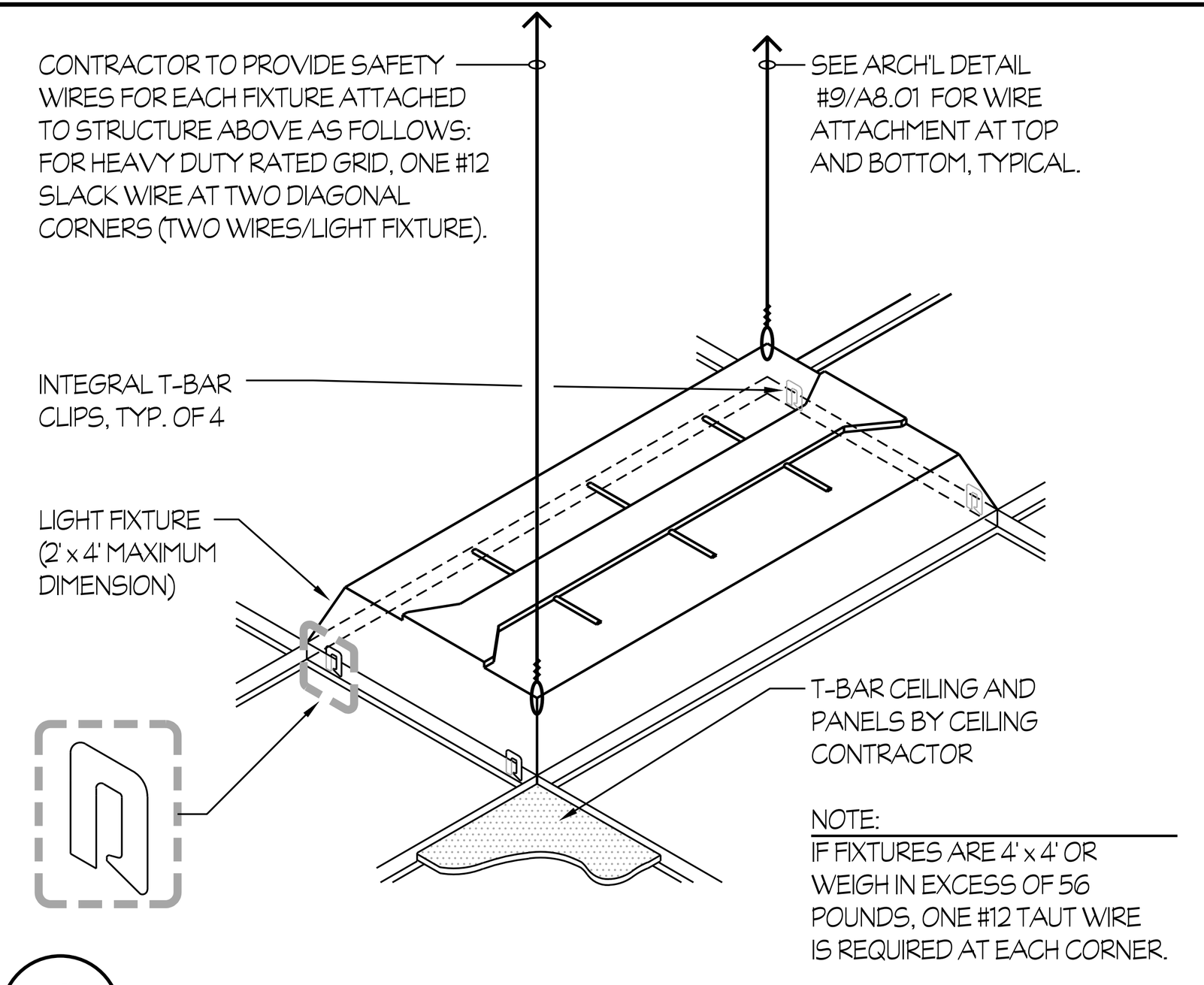
Sheet No.: **E4.03**

Release: ADDENDUM #2 (1) Issue Date: 05-01-2024

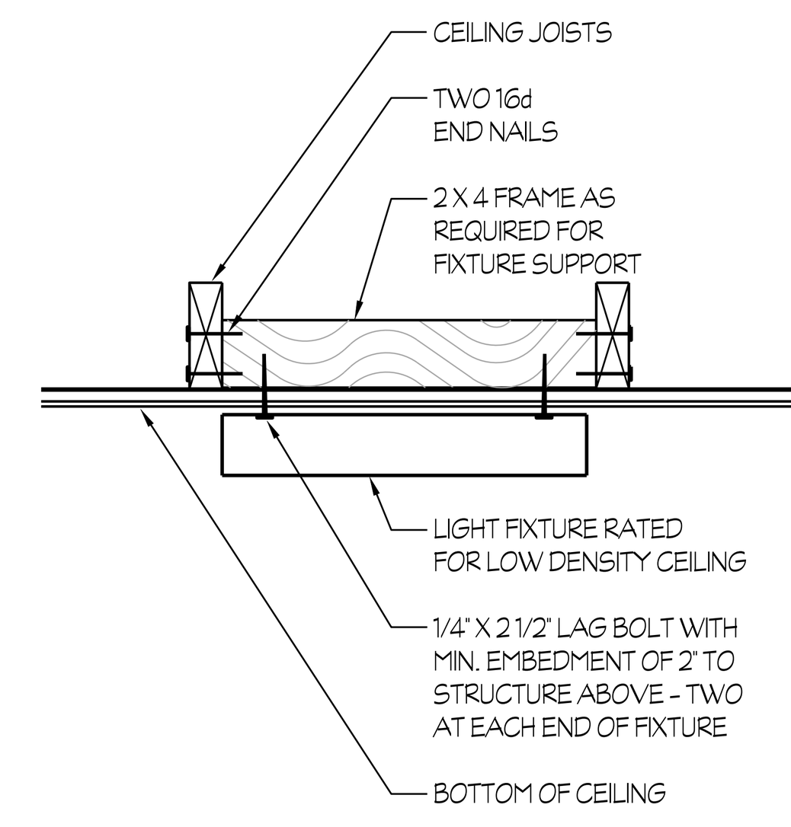
1" = 50'-0" 1" = 40'-0" 1" = 30'-0" 1" = 20'-0" 1/8" = 1'-0" 1/4" = 1'-0"

Z:\Drafting\Jobs\RSE\5526\03.5\Bakersfield City School District\Wayside Elementary - HVAC\Const Docs\E4.03.dwg DATE SAVED: 05/01/24 BY: Phoebe DATE PLOTTED: 05/02/24 JOB # 22-118-RE

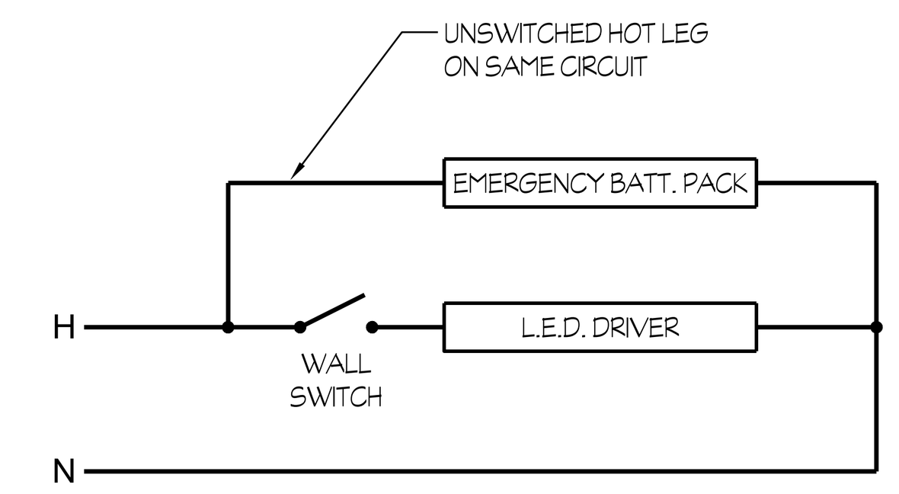
1 RECESSED FIXTURE MOUNTING
NTS



2 SURFACE FIXTURE MOUNTING
NTS

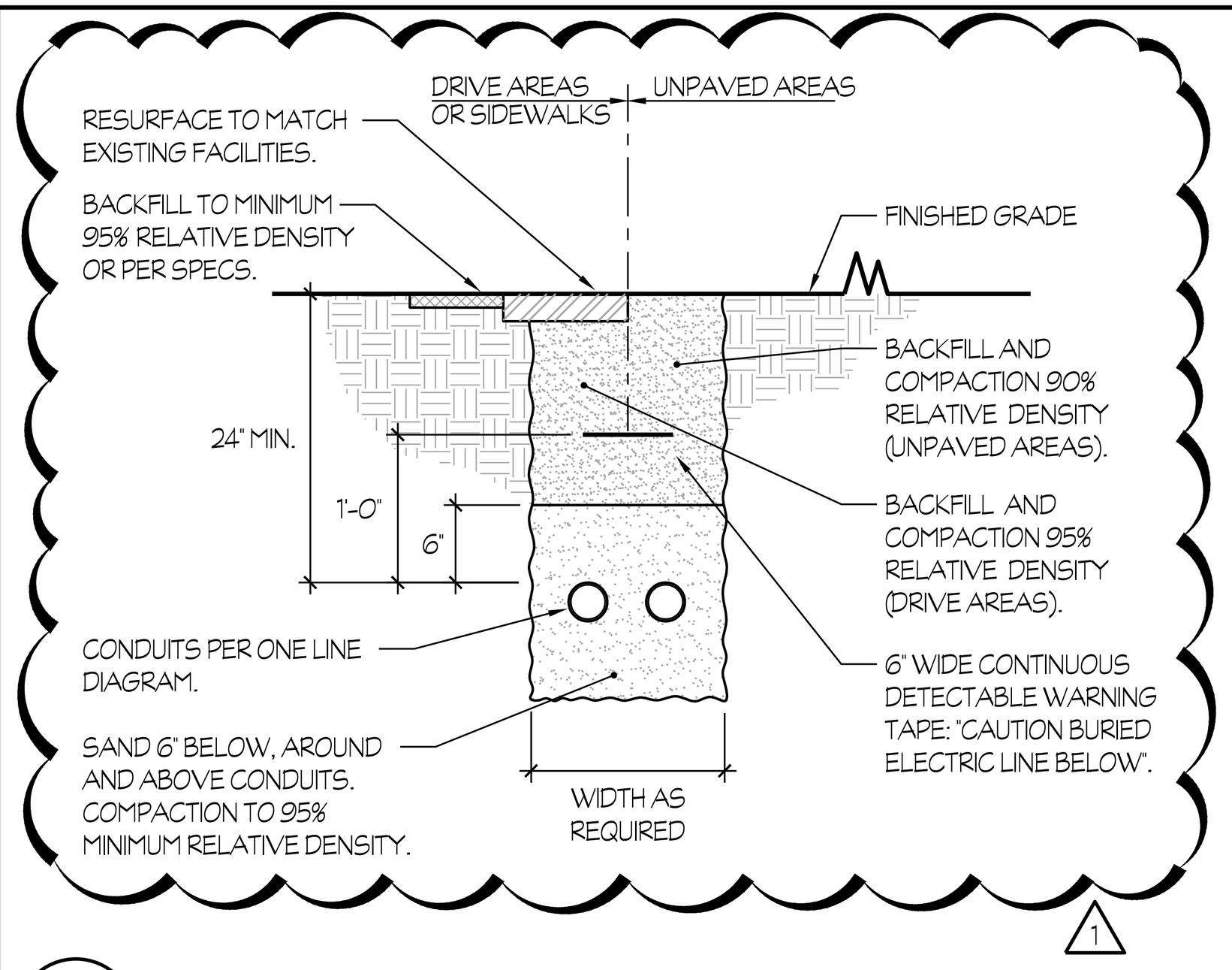


3 EMERGENCY BATTERY PACK WIRING DIAGRAM
NTS



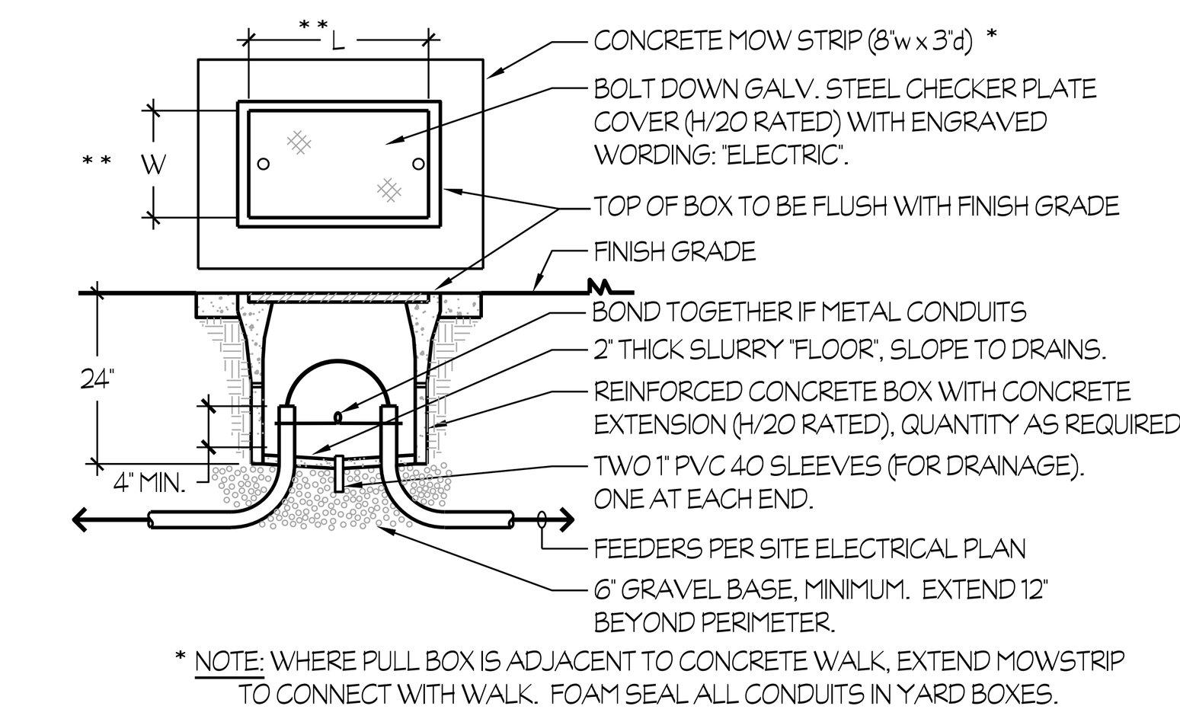
CONNECT LIGHT FIXTURE SO THAT THE L.E.D. DRIVER IS CONTROLLED BY THE WALL SWITCH AND THAT THE L.E.D. DRIVER IS ALSO CONNECTED TO THE EMERGENCY BATTERY PACK. LIGHT FIXTURE SHALL OPERATE DURING A POWER OUTAGE REGARDLESS OF THE POSITION OF THE WALL SWITCH.

4 TRENCH DETAIL
NTS



5 PULL BOX DETAIL
NTS

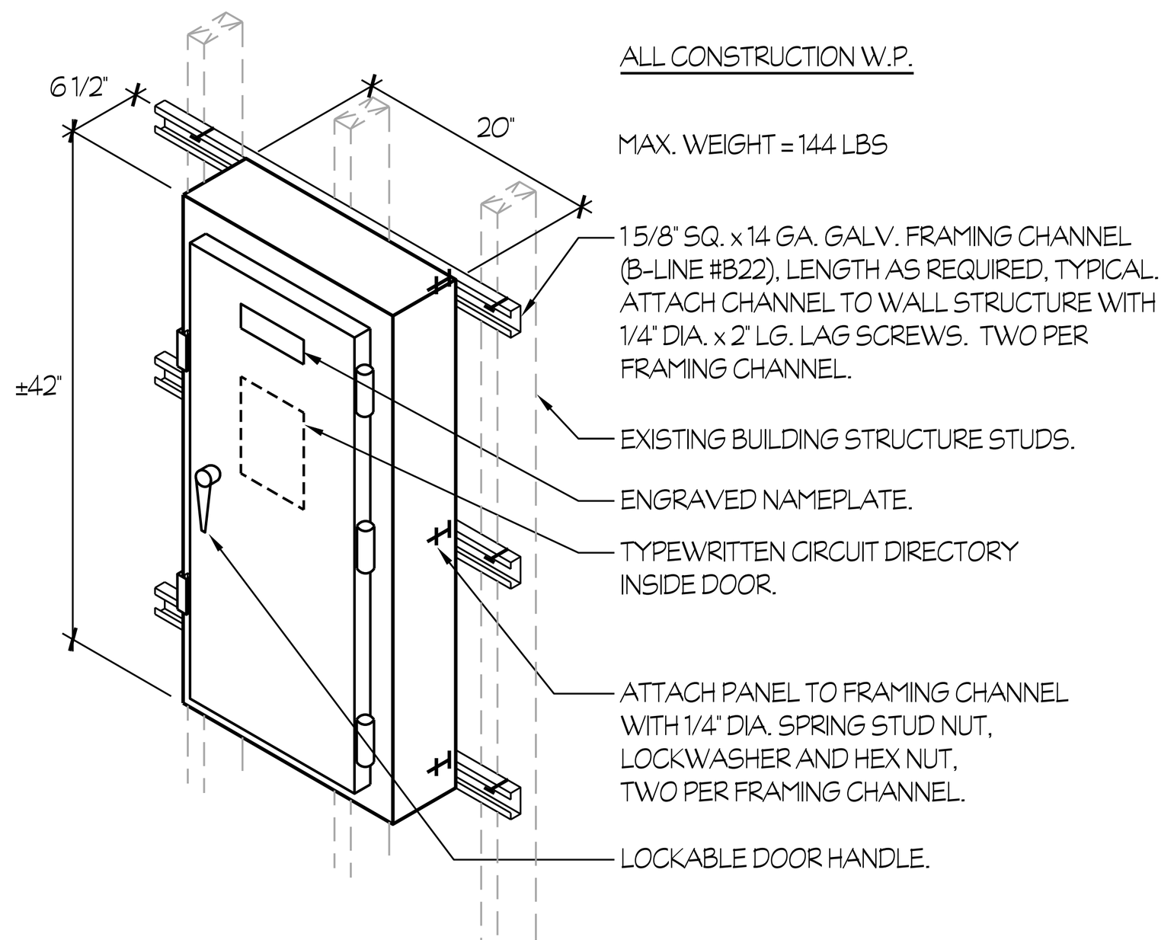
PULL BOX	PB1	PB2	SB1
W	24"	48"	11"
L	36"	60"	17"



* NOTE: WHERE PULL BOX IS ADJACENT TO CONCRETE WALK, EXTEND MOWSTRIP TO CONNECT WITH WALK. FOAM SEAL ALL CONDUITS IN YARD BOXES.

** NOTE: INTERIOR DIMENSIONS MEASURED AT "OPENING" OF PULL BOX.

6 SURFACE MOUNTED PANEL
NTS



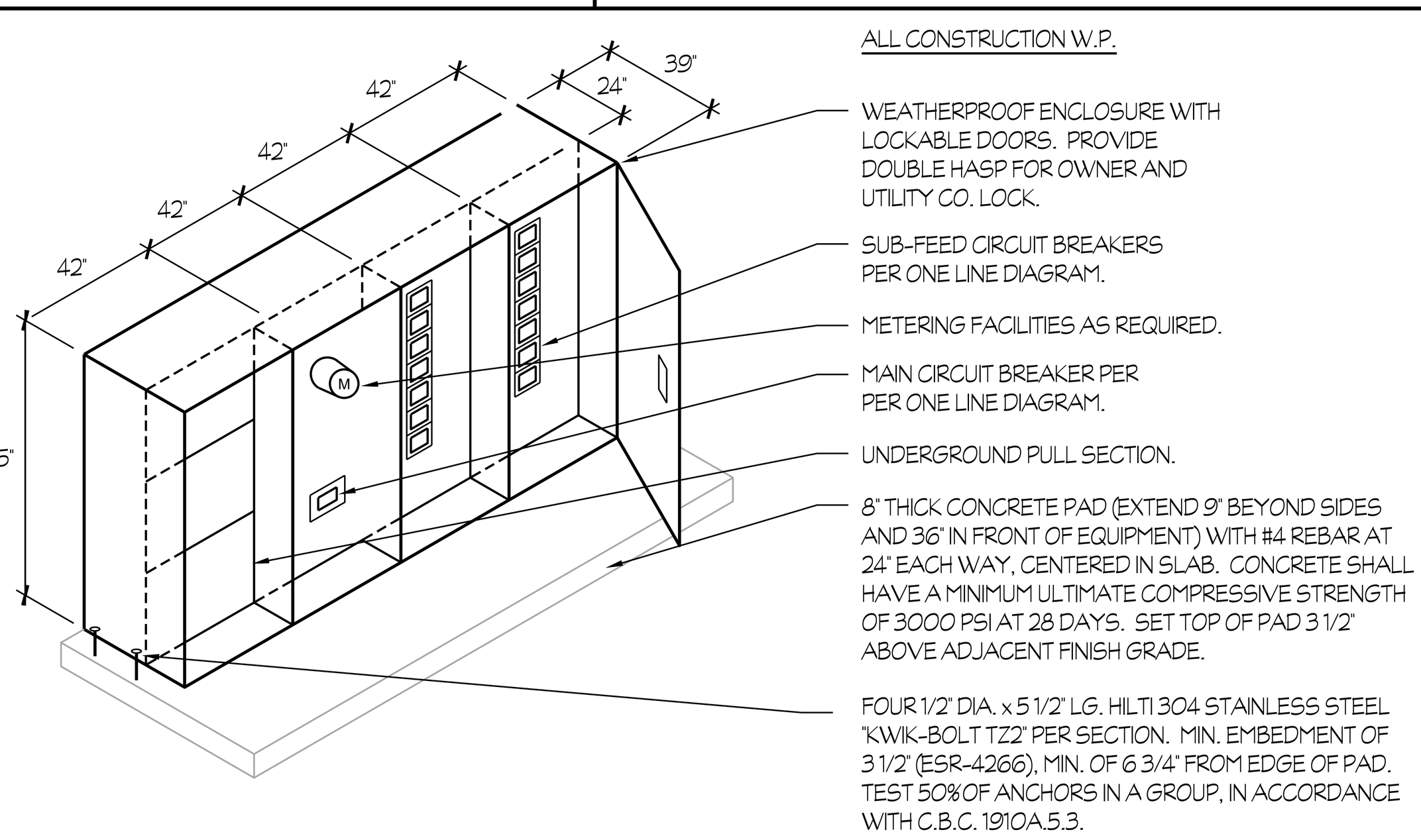
7 NEW MAIN SWITCHBOARD "MSB2"
NTS

DISTRIBUTION SECTION
1250 LBS. EACH

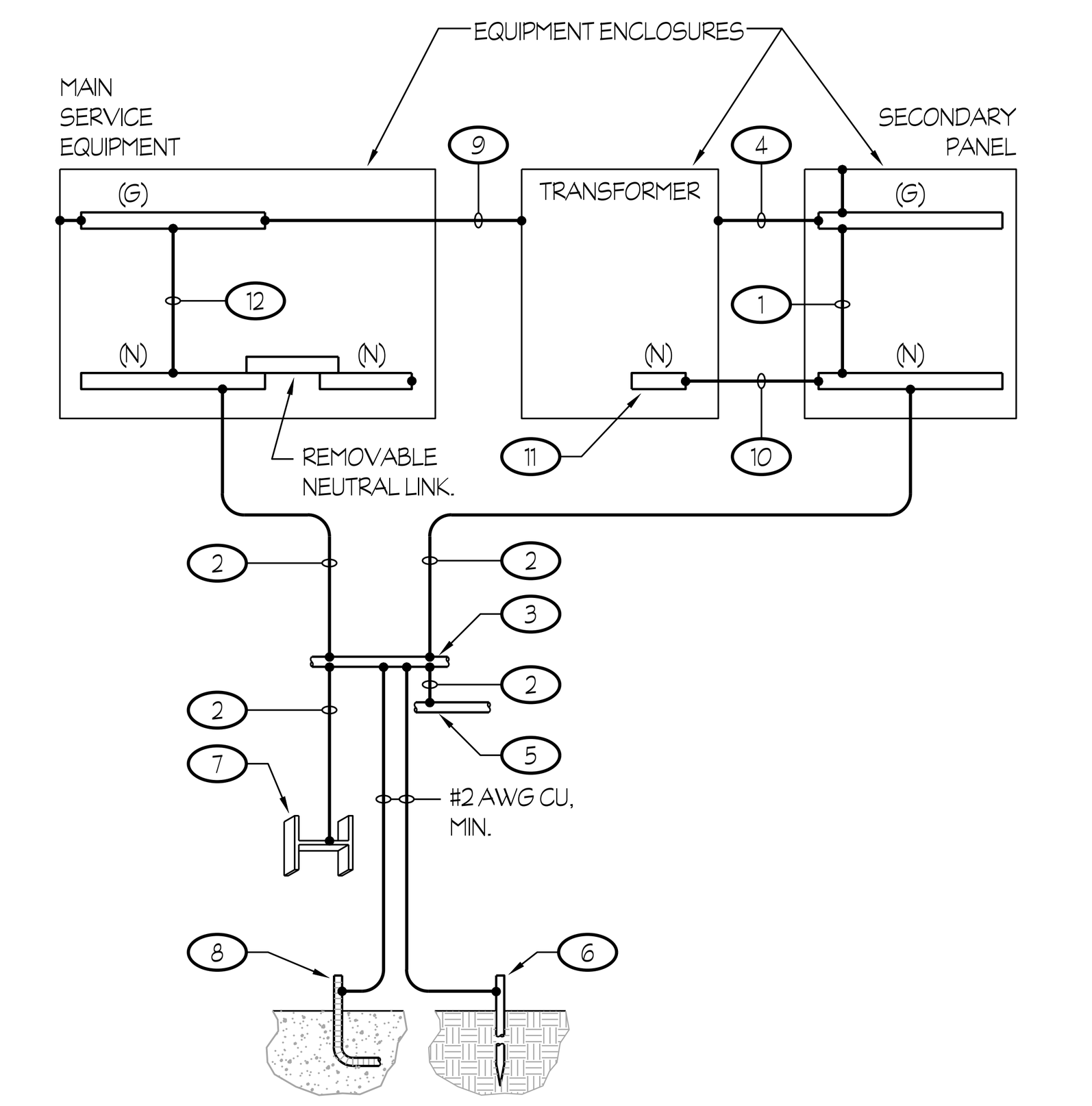
METERING / MAIN BREAKER SECTION
1250 LBS

UNDERGROUND PULL SECTION
1000 LBS

TOTAL ALL SECTIONS
4750 LBS



15 MAIN SERVICE EQUIPMENT, XFMR AND SECONDARY PANEL - GROUNDING AND BONDING
NTS



NOTES (THIS DETAIL ONLY):

1. SYSTEM BONDING JUMPER PER C.E.C. 250.30 (1).
2. FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C., TABLE 250.66.
3. METAL WATER PIPING PER C.E.C. 250.104.
4. SUPPLY SIDE BONDING JUMPER PER C.E.C. 250.30 (A), (2).
5. OTHER ABOVEGROUND METALLIC PIPING SYSTEMS PER C.E.C. 250.104.
6. 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5).
7. BUILDING STRUCTURAL STEEL PER C.E.C. 250.104.
8. CONCRETE ENCASED ELECTRODE PER C.E.C. 250.52 (A), (3).
9. EQUIPMENT GROUND CONDUCTOR PER C.E.C., TABLE 250.122.
10. NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
11. NEUTRAL BAR.
12. MAIN BONDING JUMPER PER C.E.C. 250.28.

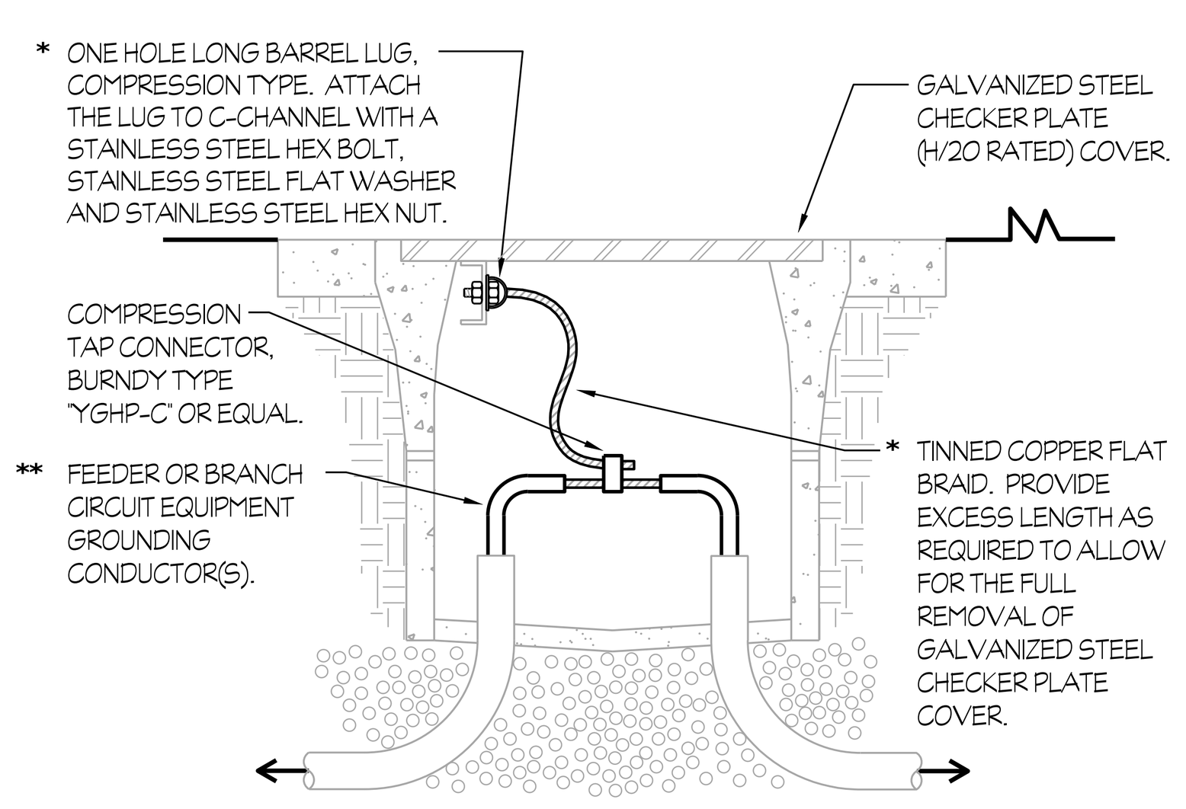
LEGEND:

(G) DENOTES THE GROUND BUS OR BAR.
(N) DENOTES THE NEUTRAL BUS OR BAR.

GENERAL NOTE:

ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

8 FLUSH MOUNTED PANEL
NTS



* THIS TYPICAL WORK SHALL BE PROVIDED FOR EACH SECTION OF A MULTIPLE SECTION COVER.

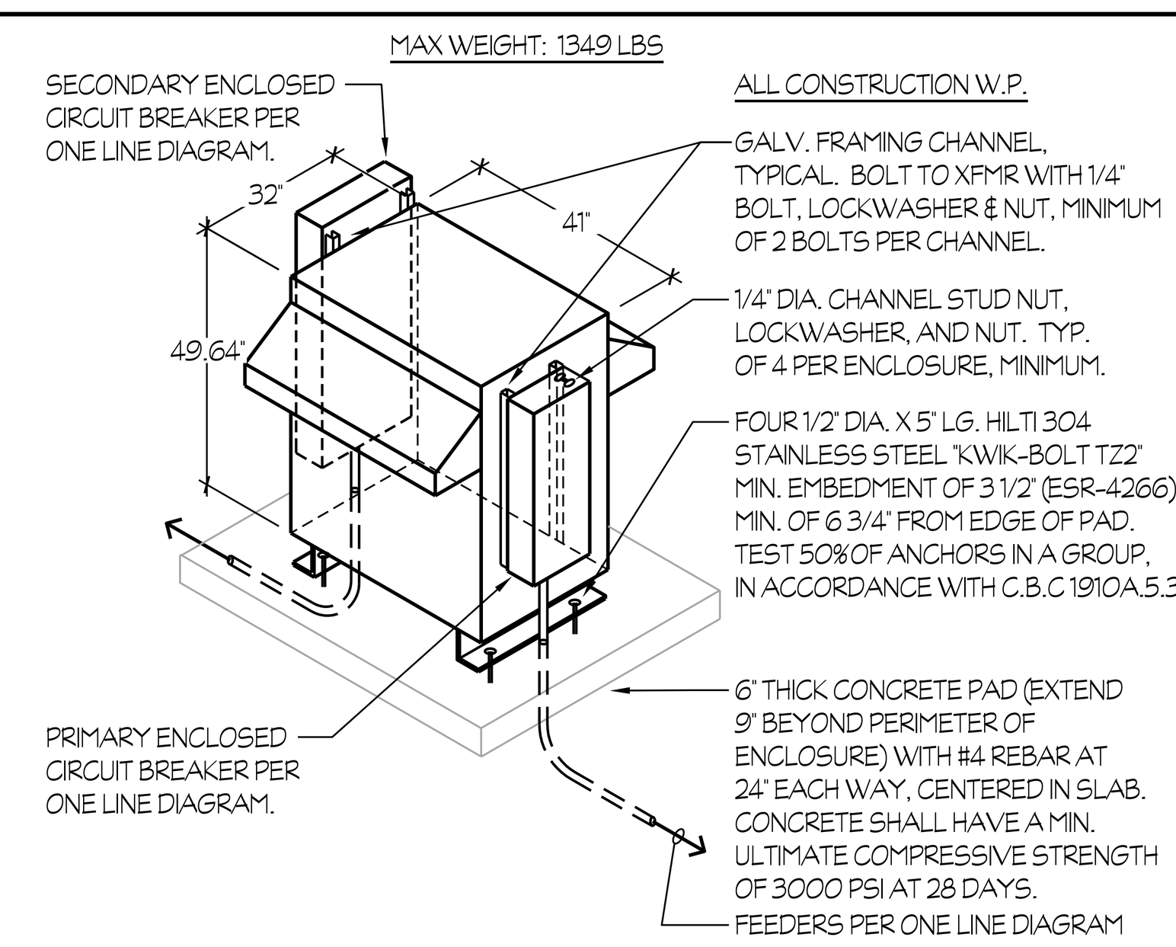
** THIS TYPICAL WORK SHALL BE DONE FOR EACH OF THE LARGEST FEEDER (OR BRANCH CIRCUIT) EQUIPMENT GROUNDING CONDUCTOR, PASSING THRU THE RESPECTIVE PULL BOX, WHICH ORIGINATE FROM SEPARATE SOURCES/VOLTAGES.

MATRIX FOR TINNED COPPER FLAT BRAID

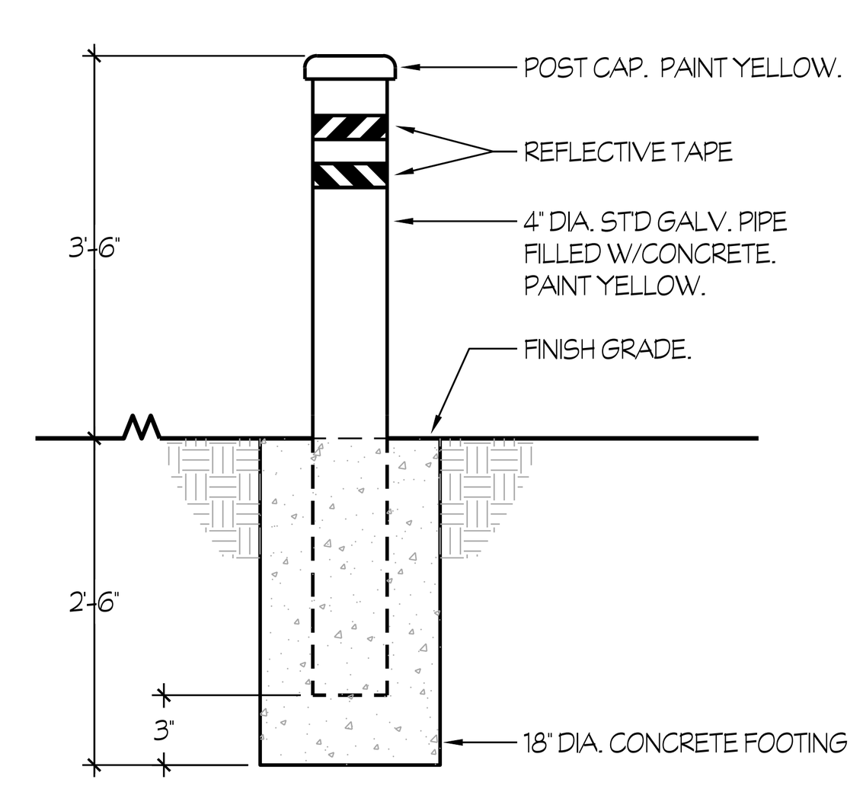
SIZE OF EQUIPMENT GROUNDING CONDUCTOR (a)	ALPHA WIRE PART #	OLYMPIC WIRE AND CABLE PART #
#8	1233	708
#6	1235	710
#4	1239	710
#2 THRU #1/0	1240	713
#2/0 THRU #4/0	1241	714

(a) CONTAINED IN THE LARGEST FEEDER (OR BRANCH CIRCUIT) PASSING THRU THE RESPECTIVE PULL BOX.

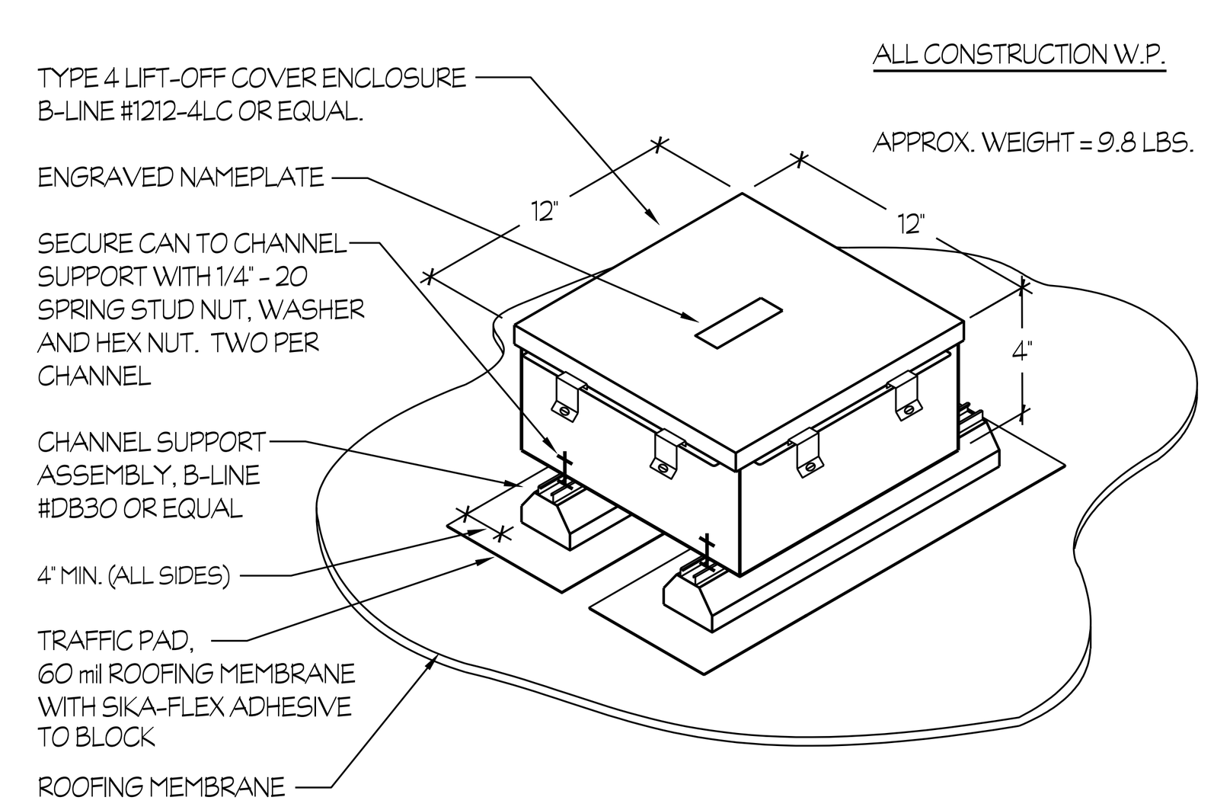
9 PAD MOUNTED TRANSFORMER
NTS



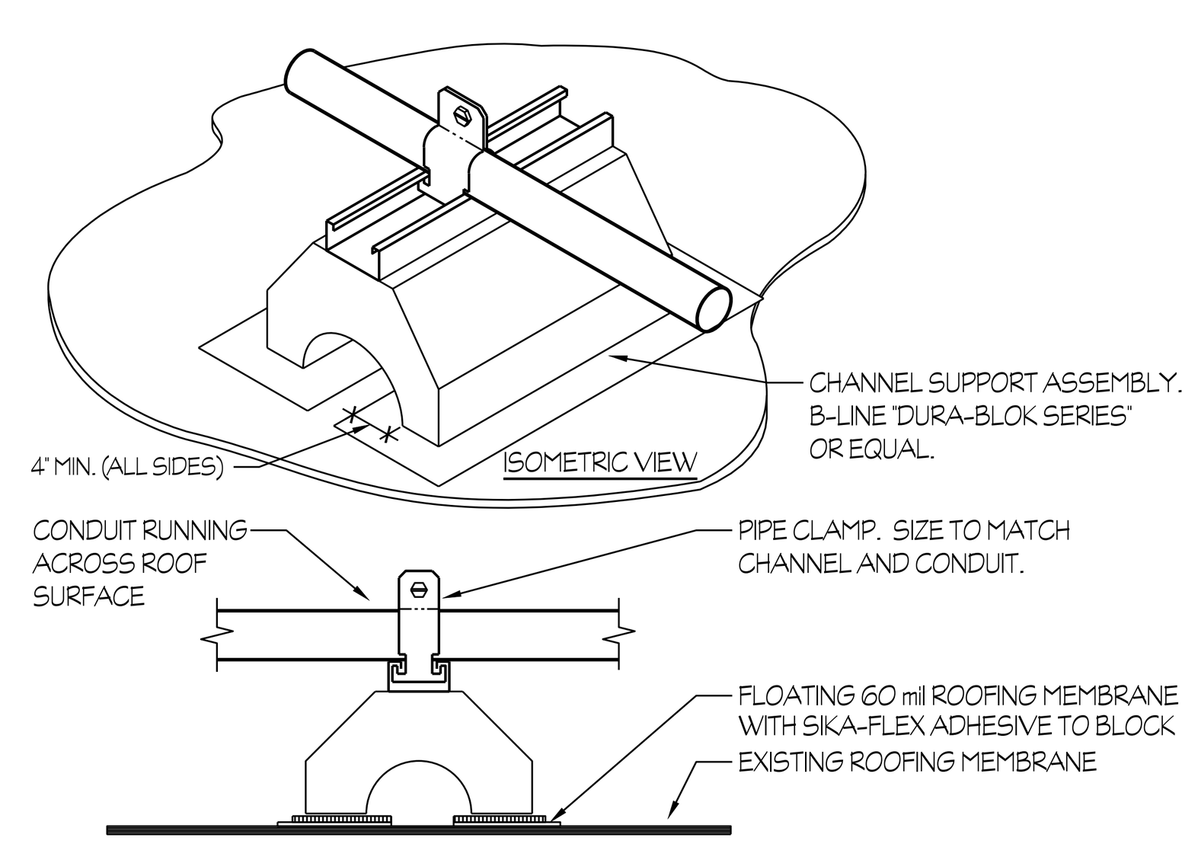
10 GAURDPOST DETAIL
NTS



11 PULL ENCLOSURE ON ROOF
NTS

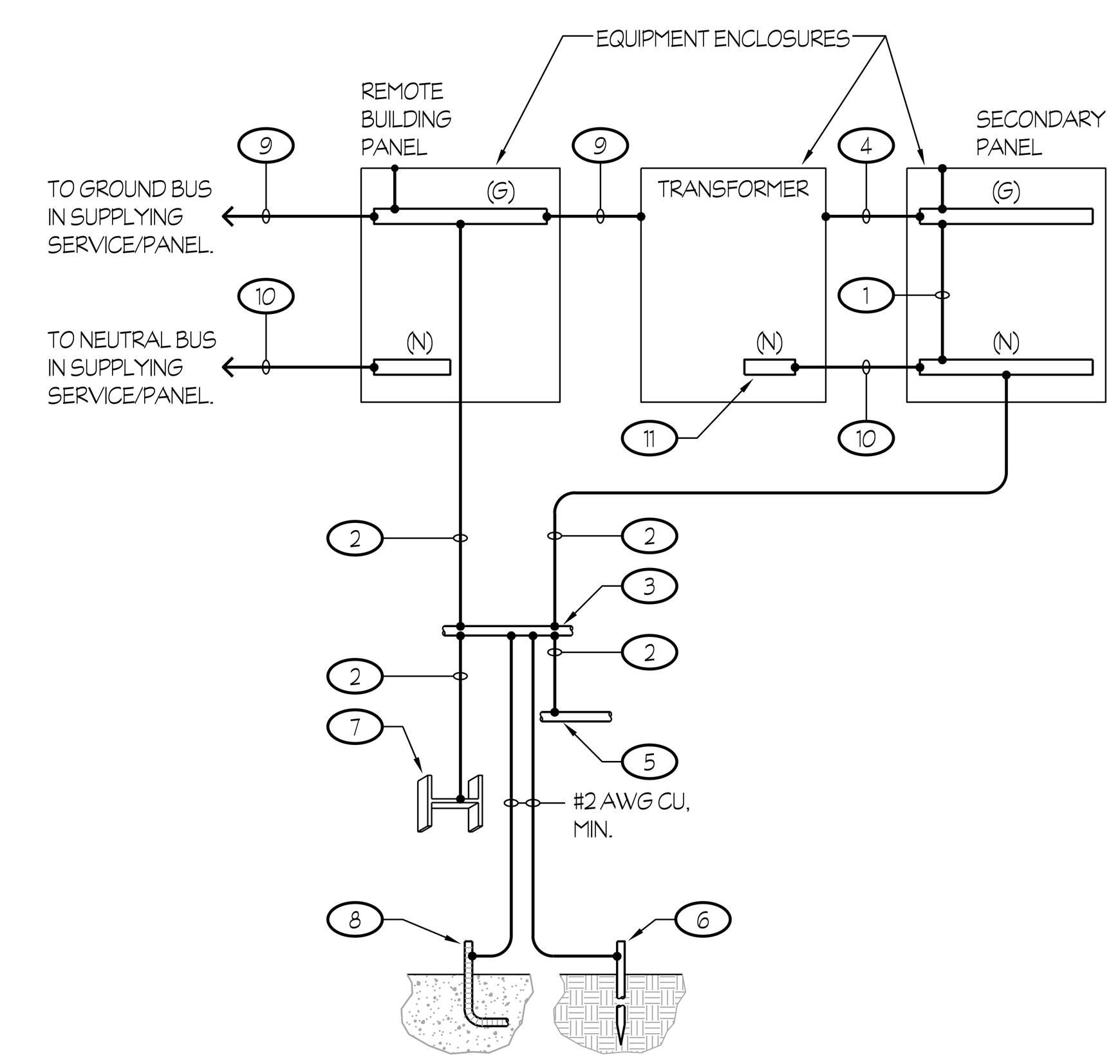


12 CONDUIT SUPPORT ON ROOF
NTS



NOTE: SPACE SUPPORTS AT 6'-0" OR LESS ON CENTER

16 REMOTE BUILDING, XFMR AND SECONDARY PANEL - GROUNDING AND BONDING
NTS



NOTES (THIS DETAIL ONLY):

1. SYSTEM BONDING JUMPER PER C.E.C. 250.30 (A), (1). SIZED PER C.E.C., TABLE 250.102 (C), (1).
2. FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C., TABLE 250.66.
3. METAL WATER PIPING PER C.E.C. 250.104 (A).
4. SUPPLY-SIDE BONDING JUMPER PER C.E.C. 250.30 (A), (2). SIZED PER C.E.C., TABLE 250.102 (C), (1).
5. OTHER METAL PIPING SYSTEMS PER C.E.C. 250.104 (B).
6. 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5).
7. STRUCTURAL METAL PER C.E.C. 250.104 (C).
8. CONCRETE-ENCASED ELECTRODE PER C.E.C. 250.52 (A), (3).
9. EQUIPMENT GROUNDING CONDUCTOR, SIZED PER C.E.C., TABLE 250.122.
10. NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
11. NEUTRAL BAR.

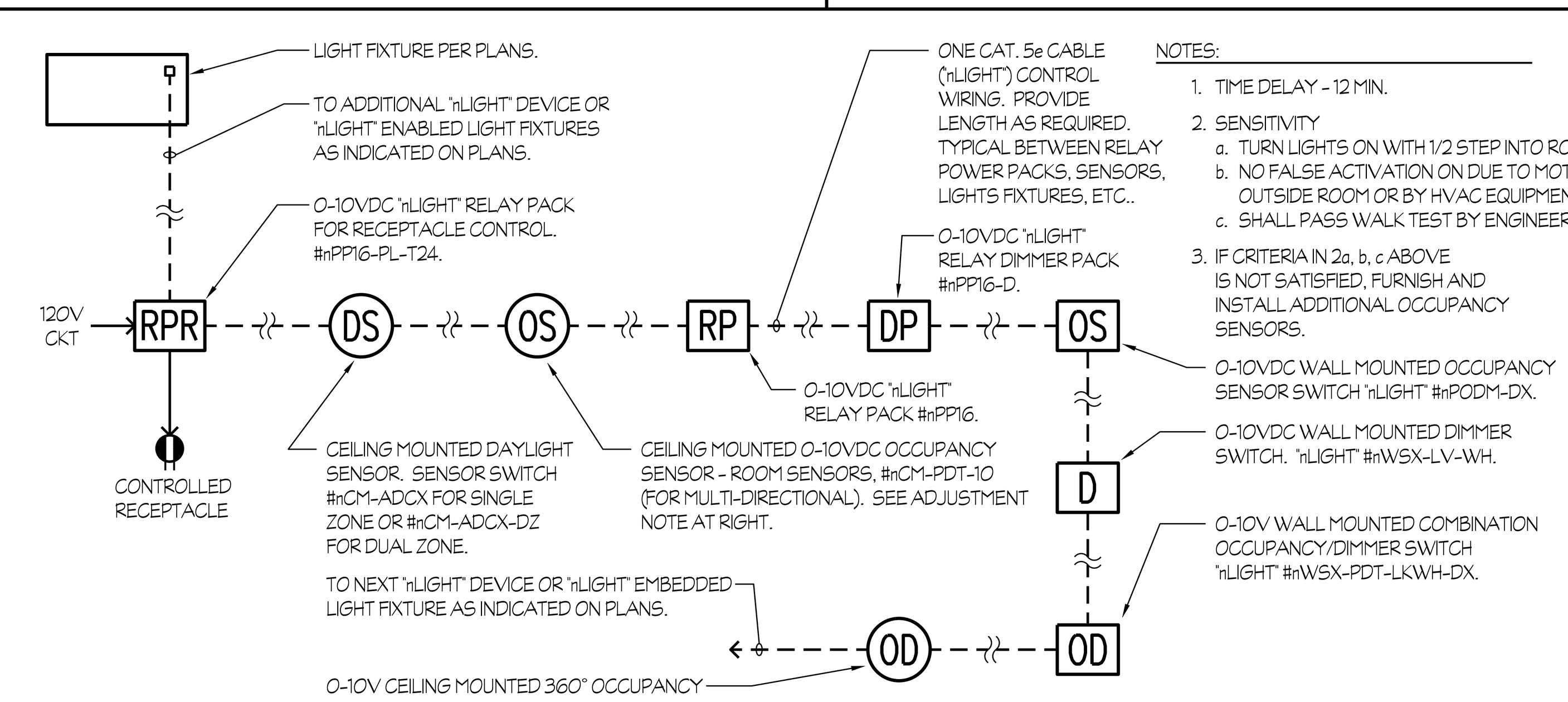
LEGEND:

(G) - DENOTES THE GROUND BUS OR BAR.
(N) - DENOTES THE NEUTRAL BUS OR BAR.
(E) - DENOTES EXISTING.

GENERAL NOTE:

ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

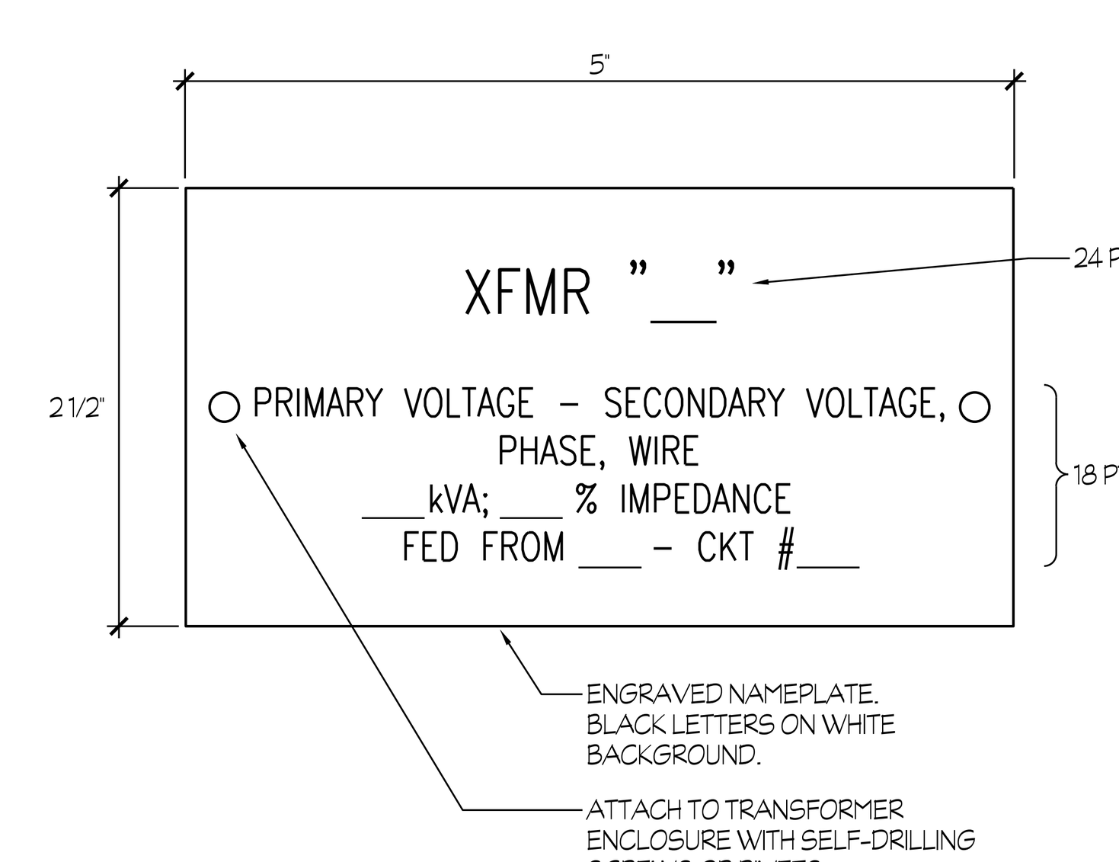
13 SENSOR SWITCH, "NLIGHT" DEVICES WIRING DIAGRAM
NTS



NOTES:

1. TIME DELAY - 12 MIN.
2. SENSITIVITY
   a. TURN LIGHTS ON WITH 1/2 STEP INTO ROOM.
   b. NO FALSE ACTIVATION ON DUE TO MOTION OUTSIDE ROOM OR BY HVAC EQUIPMENT.
   c. SMALL PASS WALL TEST BY ENGINEER.
3. IF CRITERIA IN 2a, b, c ABOVE IS NOT SATISFIED, FURNISH AND INSTALL ADDITIONAL OCCUPANCY SENSORS.

14 TRANSFORMER IDENTIFICATION NAMEPLATE
NTS



Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER
No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

Project Address:

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE
BAKERSFIELD, CA 93307

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DETAILS

Job No.: 5526

Sheet No.: E5.00

Release: ADDENDUM #2 Issue Date: 05-01-2024