

Aedis Architects 387 S. First St., Suite 300 San Jose, CA 95113

Subject: Borel Middle School HVAC Replacement San Mateo - Foster City School District Aedis Project No. 2021005 DSA Application #01-119557

ADDENDUM NO. 1

CHANGES AND/OR CLARIFICATIONS OF THE DRAWINGS AND SPECIFICATIONS ARE AS FOLLOWS:

SPECIFICATIONS

- ITEM NO. 1.1: TABLE OF CONTENTS
 - Add: 31 23 16 TRENCHING
- ITEM NO. 1.2: SECTION 32 13 26 TRENCHING
 - Add: The specification in its entirety per 32 13 26 Trenching.
- ITEM NO. 1.3: SECTION 32 31 13 CHAIN LINK FENCES AND GATES
 - <u>Add:</u> 2.4 SWING GATES D. Hardware Item 5.: Panic Hardware: CD 990AX-L-WH-6280 SNB with Gate closer/Hinge: SureClose Pivot: SM AT90W"

DRAWINGS

ARCHITECTURAL

ITEM NO. 1.4: DRAWING SHEET T1 – TITLE SHEET

- Revise:General Notes 7 to read as "ALL EXISTING FINISHES OR MATERIALS DAMAGED OR
DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR
ORIGINAL STATE, INCLUDING BUT NOT LIMITED TO REINSTALLING OR REPLACING
EXISTING CHAINLINK FENCING AS REQUIRED AND RESTRIPING PAVING IN KIND.
S.E.D. FOR TRENCH ROUTING. VERIFY IN FIELD AND SEE ARCHITECTURAL SITE
PLAN FOR STRIPING AT EXISTING PAVING."
- ITEM NO. 1.5: DRAWING SHEET A1.02 SITE PLAN
 - Add: Trench area to New Site Plan 1/A1.02 & Graphic Key per AD1-A1.02

ITEM NO. 1.6: DRAWING SHEET A2.01– DEMOLITION FLOOR PLANS -BLDGS A, B, C, & D

- <u>Revise:</u> Reference room 20 for similar scope where occurs in Demolition Floor Plan 2/A2.01 per AD1-A2.01
- <u>Revise:</u> Keynote scope for classrooms 20 and 22 in Demolition Floor Plan 2/A2.01 per AD1-A2.01
- Add: Keynote 9 in Demolition Floor Plan 3/A2.01 per AD1-A2.01
- <u>*Remove:*</u> Keynote 9 in Demolition Floor Plan 4/A2.01 per AD1-A2.01
- Add: General Sheet Note #J PER AD1-A2.01

ITEM NO. 1.7: DRAWING SHEET A2.02 – DEMOLITION FLOOR PLAN – SCIENCE BLDG

- Add: View 2/A2.02 PARTIAL DEMOLITION FLOOR PLAN BLDG. G per AD1-A2.02
- Add: General Sheet Note #J per AD1-A2.02
- <u>Revise:</u> Remove and relocate as occurs keynote #5 at Demolition Floor Plan 1/A2.02 per AD1-A2.02
- <u>*Revise:*</u> Demolition Floor Plan Keynote #5 per AD1-A2.02
- Add: Demolition Floor Plan Keynotes #6 per AD1-A2.02

ITEM NO. 1.8: DRAWING SHEET A3.02- NEW FLOOR PLAN - SCIENCE BLDG & TYP. NEW REFLECTED CEILING PLANS

- <u>Add:</u> View 5/A3.02 New Partial Floor Plan Bldg. G per AD1-A3.02
- Add: New Floor Plan & RCP Keynote #17 per AD1-A3.02

ITEM NO. 1.9: DRAWING SHEET A5.01 – PARTIAL SITE ROOF PLAN

- Add: Exhaust fan per AD1-A5.01
- *<u>Revise:</u>* Mechanical platform graphic per AD1-A5.01
- *<u>Revise:</u>* Roof Plan Keynotes #1 and #2 per AD1-A5.01
- Add: Roof Plan Keynote #5 per AD1-A5.01

ITEM NO. 1.10: DRAWING SHEET A9.10 – INTERIOR DETAILS, WALL TYPSE, AND INTERIOR ELEVATIONS

Revise:Details 1 & 3 per AD1-A9.10ARevise:Detail 6 per AD1-A9.10B

MECHANICAL

- ITEM NO. 1.11: DRAWING SHEET MP0.02 SCHEDULES MECHANICAL
 - Revise:Classroom split system heat pump schedule per AD1-MP0.02Revise:Reference RG-1 Mounting detail per AD1-MP0.02Revise:Air Distribution Schedule per AD1-MP0.02Add:Exhaust Fan Schedule per AD1-MP0.02

Add: Roof Hood Schedule per AD1-MP0.02

- ITEM NO. 1.12: DRAWING SHEET MP2.01 FLOOR PLAN DEMOLITION BLDG A, B, C, D MECHANICAL & PLUMBINGS
 - Add: Cap Bottom Louver per AD1-MP2.01
 - Add: Demolition Sheet Notes #12 per AD1-MP2.01

ITEM NO. 1.13: DRAWING SHEET MP2.05 – FLOOR PLANS– NEW – BLDGS A & D – MECHANICAL & PLUMBING

- *<u>Revise:</u>* General note #5 per AD1-MP2.05a
- Add: General note #10 per AD1-MP2.05a
- Add: Dimension per AD1-MP2.05a.
- *Revise:* Keynote per AD1-MP2.05b.

ITEM NO. 1.14: DRAWING SHEET MP2.06 – FLOOR PLAN – NEW – BLDG B, BLDG C, AND SCIENCE BLDG – MECHANICAL & PLUMBING

<u>Revise:</u>	General Note #5 per AD1-MP2.06a
<u>Add:</u>	General Note #10 per AD1-MP2.06a
<u>Revise:</u>	Location of RG-1 per AD1-MP2.06a
<u>Revise:</u>	Location of RG-1 per AD1-MP2.06b

ITEM NO. 1.15: DRAWING SHEET MP2.07 – PARTIAL ROOF PLAN – NEW – BLDG G – MECHANICAL & PLUMBING

- Add: Exhaust Fan per AD1-MP2.07
- Add: Roof Hood per AD1-MP2.07
- <u>Revise:</u> General Note #5 per AD1-MP2.07
- <u>Revise:</u> New Sheet Note #1 per AD1-MP2.07
- Add: New Sheet Notes #4 and 5 per AD1-MP2.07

ITEM NO. 1.16: DRAWING SHEET MP2.08 – PARTIAL ROOF PLAN – NEW – BLDG G – MECHANICAL & PLUMBING

- <u>Add:</u> Existing outside duct per AD1-MP2.08
- Add: Existing return register per AD1-MP2.08
- <u>*Revise:*</u> New Sheet Notes #5 per AD1-MP2.08

ITEM NO. 1.17: DRAWING SHEET MP5.01 – CONTROLS – MECHANICAL

<u>Revise:</u> Classroom Split System Heat Pump / Fan Coil unit Control Schematic per AD1-MP5.01

<u>ITEM NO. 1.18:</u>	DRAWING	<u>SHEET MP6.01 – DETAILS – MECHANICAL & PLUMBING</u>
	<u>Revise:</u>	Detail 2 & 4 per AD1-MP6.01
<u>ITEM NO. 1.19:</u>	DRAWING	SHEET MP6.02 – DETAILS – MECHANCIAL & PLUMBING
	<u>Add:</u>	New sheet in its entirety per AD1-MP6.02
ELECTRICAL ITEM NO. 1.20:	DRAWING	<u>SHEET E1.1 – ELECTRICAL SITE PLAN</u>
	<u>Add:</u>	In-grade pull box adjacent to existing switch gear per AD1-E1.1
ITEM NO. 1.21:	DRAWING	SHEET E3.1 – ELECTRICAL NEW FLOOR PLANS – BLDG A, B, C & D
	<u>Add:</u> <u>Revise:</u>	General Notes #6, as shown clouded on AD1-E3.1 Electrical plans 1/E3.1, 2/E3.1, 3/E3.1 & 4/E3.1 per AD1-E3.1
ITEM NO. 1.22:	DRAWING	<u>SHEET E3.3 – ELECTRICAL NEW PARTIAL FLOOR PLAN - BLDG G</u>
	<u>Add:</u> <u>Add:</u> <u>Add:</u>	Power for Exhaust Fans at building per AD1-E3.3 General Note #9 per AD1-E3.3 Sheet Note #5 per AD1-E3.3
ITEM NO. 1.23:	DRAWING	<u> SHEET E3.4 – ELECTRICAL NEW PARTIAL FLOOR PLAN - BLDG G</u>
	<u>Add:</u>	General Notes #9 per on AD1-E3.4
ITEM NO. 1.24:	DRAWING	<u>SHEET E4.3 – PANEL SCHEDULES</u>
	<u>Add:</u>	Revise panel schedules per AD1-E4.3

ADDENDUM NO. 1 Borel Middle School HVAC Replacement San Mateo – Foster City School District Aedis Project No. 2021005.07



Aedis Architects Thang Do, Principal



Electrical, American Consulting Engineers Electrical Sammy Fernandez



Mechanical, Cypress Engineering Group Metin Serttunc

Division of the State Architect

ADDENDUM NO. 1

Borel Middle School HVAC Replacement San Mateo – Foster City School District Aedis Project No. 2021005.07

Attachments:

Specifications: 31 23 16 Trenching (5 pages)

Drawings ARCHITECTURAL SHEET AD1-A1.02 SHEET AD1-A2.01 SHEET AD1-A2.02 SHEET AD1-A3.02 SHEET AD1-A5.01 SHEET AD1-A9.10A SHEET AD1-A9.10B MECHANICAL SHEET AD1-MP0.02 SHEET AD1-MP2.01 SHEET AD1-MP2.05a SHEET AD1-MP2.05b SHEET AD1-MP2.06a SHEET AD1-MP2.06b SHEET AD1-MP2.07 SHEET AD1-MP2.08 SHEET AD1-MP5.01 SHEET AD1-MP6.01 SHEET AD1-MP6.02 **ELECTRICAL** SHEET AD1-E1.1 SHEET AD1-E3.1 SHEET AD1-E3.3 SHEET AD1-E3.4

SECTION 312316 - TRENCHING

PART 1 GENERAL

- 1.1 SUMMARY
 - A. Section includes excavating trenches for utilities from outside building to final connection point or public right-of-way or utility; compacted fill from top of utility bedding to subgrade elevations; and backfilling and compaction.
 - B. Related Sections:
 - 1. Section 03 30 00 Cast-in-Place Concrete.

1.2 DEFINITIONS

A. Utility: Any buried pipe, duct, conduit, or cable.

1.3 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

1.4 COORDINATION

- A. Section 01 06 00 Regulatory Requirements.
- B. Verify Work associated with lower elevation utilities is complete before placing higher elevation utilities.
- C. Verify elevations of existing facilities prior to placing new Work.

PART 2 PRODUCTS

- 2.1 FILL MATERIALS
 - A. Fill and Structural Fill shall be: As specified in the project Soils Report and any supplements to the Soils Report.

2.2 ACCESSORIES

A. Filter Fabric: Non-biodegradable, woven as manufactured by TC Mirafi, Tenax Corp., Tensar Earth Technologies, Inc. or equal.

PART 3 EXECUTION

3.1 LINES AND GRADES

A. Grades

- 1. Pipes shall be laid true to the lines and grades indicated.
- 2. The grade alignment of the pipe shall be maintained by the use of a string line parallel with the grade line and vertically above the centerline of the pipe. This line shall be established on level batter boards at intervals of not more than 25 feet. Batter boards shall span the trench and be rigidly anchored to substantial posts driven into the ground on each side of the trench. Three adjacent batter boards must be set before laying pipe to provide a check on the grades and line. Elevation and position of the string line shall be determined from the elevation and position of offset points or stakes located along the pipe route. Pipe shall not be laid using side lines for line or grade.
- 3. As an alternative means of establishing alignment and grade, a "Laser-Beam" instrument may be utilized with a competent operator.

B. Location of Pipe Lines:

- 1. The location and approximate depths of the proposed pipe lines are shown on the Drawings.
- 2. An underground locate service shall be enlisted to discover the location of existing utilities regardless if they are shown on the drawings.
- 3. The Architect/Engineer reserves the right to make changes in lines, grades, and depths of pipe lines and manholes when such changes are necessary.

3.2 PREPARATION

- A. Identify required lines, levels, contours, and datum locations.
- B. Protect plant life, lawns, and other features remaining as a portion of final landscaping.
- C. Protect bench marks, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
- D. Maintain and protect above and below grade utilities which are to remain.
- E. Cut out soft areas of subgrade not capable of compaction in place. Backfill and compact to density equal to or greater than requirements for subsequent backfill material.

3.3 EXCAVATING

A. Excavate subsoil required for utilities.

2 312316 - TRENCHING

- B. Cut trenches sufficiently wide to enable installation and allow inspection. Remove water or materials that interfere with Work.
- C. Do not interfere with 45 degree bearing splay of foundations.
- D. Hand trim excavation. Hand trim for bell and spigot pipe joints. Remove loose matter.
- E. Remove lumped subsoil, boulders, and rock as directed by the Soils Engineer or other inspector.
- F. Correct over excavated areas with backfill and compact replacement as specified for authorized excavation.
- G. Stockpile excavated material on site. Remove excess material not being used from site.

3.4 TRENCHING

- A. Excavations:
 - 1. Excavation shall be dug so that the pipe can be laid and jointed properly. The trench shall be made so that the pipe can be laid to the alignment and depth as shown on the Drawings, and it shall be excavated only so far in advance of pipe laying as permitted by the Architect/Engineer. The excavation shall not be more than two feet wider at the bottom than the outside diameter of the pipe or structure. If there is no interference with construction, or adjacent property, and if soil permits, the Contractor at his own expense shall be permitted to slope the side walls of the excavation starting at a point two (2) feet above the top of pipe.
 - 2. The trench shall be excavated to the depth required so as to provide a uniform and continuous bearing and support for the pipe on bedding material at every point between joints, except where pipe slings or other lifting tackle are withdrawn.
 - 3. Excavation Below Grade:
 - 1) Where excavation indicates that the subsurface materials at the bottom of the trench are in a loose or soft state, the Contractor shall be advised to excavate to a depth where suitable material is encountered, as directed by the Architect/Engineer.
 - 2) Where the bottom of the trench has been excavated by mistake to a greater depth than required, the Contractor shall refill this area using approved material. No additional compensation shall be given to the Contractor. Refilling with earth to bring the bottom of the trench to the proper grade will not be permitted.
 - 4. Excavation within 24 inches of existing utilities shall be governed by specifications of the Owner of the respective utility. The Contractor shall obtain these specifications and follow the same at no extra cost.

- 5. Excavation and shoring shall adhere to the requirements and safety standards set by OSHA.
- B. Trenching in Advance of Pipe Laying: The trench for the pipe lines shall not be opened for a distance of more than 200 feet at any one time, unless authorized by the Architect/Engineer. At no time will the Contractor be permitted to leave more than 50 feet of trench open at the end of a working day. Adequate protection of open trench shall be provided by the Contractor and the Contractor shall be responsible therefore.

3.5 SHEETING AND BRACING

- A. General:
 - 1. Sheeting and bracing of all excavations shall conform to the latest statutes of the State of California governing safety of workers in the construction industry. When necessary, in the opinion of the Contractor, adequate sheeting and bracing shall be installed to prevent ground movement that may cause damage or settlement to adjacent structures, pipelines and utilities. Any damage due to settlement because of failure to use sheeting or because of inadequate bracing, or through negligence or fault of the Contractor in any other manner, shall be repaired at the Contractor's expense.
 - 2. Sides of trenches in unsuitable, loose or soft material, five feet or more in depth, shall be shored, sheeted, braced, sloped, or otherwise supported by means of sufficient strength to protect employees working within them.
- B. Sheeting Requirements:
 - 3. Where excavations are made with vertical sides which require supporting, the sheeting and bracing shall be of sufficient strength to sustain the sides of the excavations and to prevent movement which could in any way injure the Work, or adjacent structures, or diminish the working space sufficiently to delay the Work. Special precautions shall be taken where there is additional pressure due to the presence of other structures.
 - 4. It shall be the Contractor's responsibility to select sheeting and bracing of sufficient dimensions and strength and type to adequately support the sides of trenches and excavations.
 - 5. Sheeting and bracing shall be removed before the completion of the Work.

3.6 BACKFILLING

- A. Backfill trenches to contours and elevations shown on the drawings.
- B. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.
- C. Fill materials shall be as specified in the Soils Report and any supplements to the Soils Report.

- D. Employ a placement method that does not disturb or damage utilities in trench. Jetting of backfill materials to achieve compaction shall not be permitted.
- E. Maintain optimum moisture content of fill materials to attain required compaction density.
- F. Remove surplus fill materials from site.

3.7 TOLERANCES

- A. Section 01 40 00 Quality Requirements.
- B. Top Surface of Backfilling Under Paved Areas: Plus or minus 0.05 feet from required elevations.
- C. Top Surface of General Backfilling: Plus or minus 1/10 feet from required elevations.

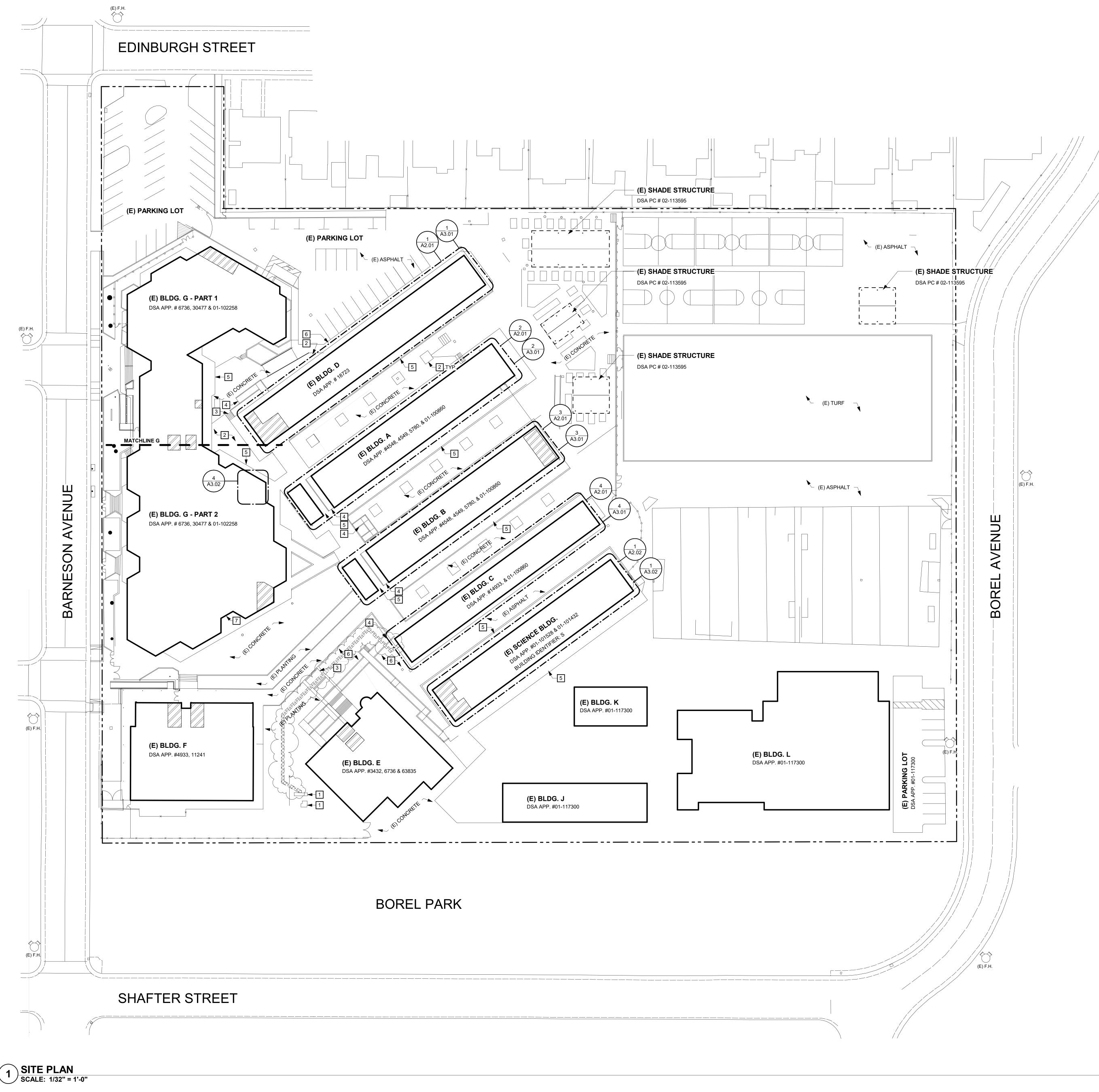
3.8 FIELD QUALITY CONTROL

- A. Compaction testing will be performed by the project Soils Engineer.
- B. If tests indicate Work does not meet specified requirements, remove Work, replace, compact, and retest.

3.9 PROTECTION OF FINISHED WORK

- A. Section 01 70 00 Execution and Closeout Requirements.
- B. Reshape and re-compact fills subjected to vehicular traffic during construction.

END OF SECTION



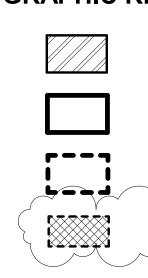


- A BUILDINGS ARE UNSPRINKLERED, TYPE V-B CONSTRUCTION UNLESS OTHERIWSE NOTED.
- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
- CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT. С
- DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILI EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.
- PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK.

SITE PLAN KEYNOTES

- 1 (E) ELECTRICAL EQUIPMENT TO REMAIN, S.E.D.
- (E) PLANTING TO REMAIN. (E) CONC. STAIR TO REMAIN. 3
- 4 (E) CONC. RAMP TO REMAIN. (E) CONC. PAVING TO REMAIN.
- 6 (E) ASPHALT PAVING TO REMAIN. GAS SHUT OFF SIGN, SEE DETAIL 14/A9.10. LOCATE BETWEEN DOOR SWINGS, SUCH THAT SIGNAGE REMAINS VISIBLE WHEN DOORS ARE IN OPEN POSITION.

GRAPHIC KEY



(E) F.H.

EXISTING TOILET ROOMS.

EXISTING CONSTRUCTION TO REMAIN

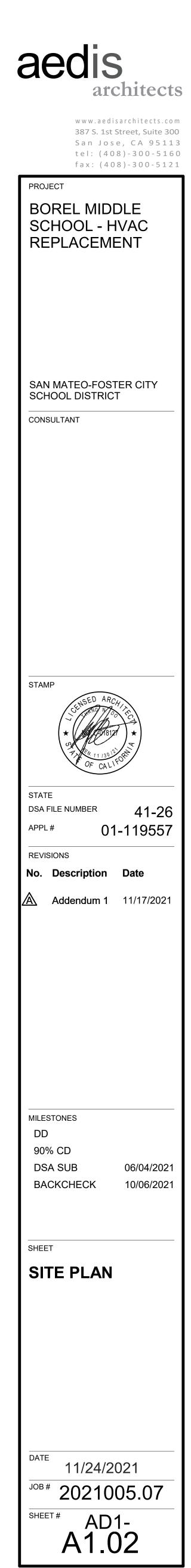
EXISTING COVERED STRUCTURE TRENCH FOR ELECTRICAL WORK, S.E.D. , 8/S5.01 & DETAILS ON SHEET A8.10

ASSUMED PROPERTY LINE

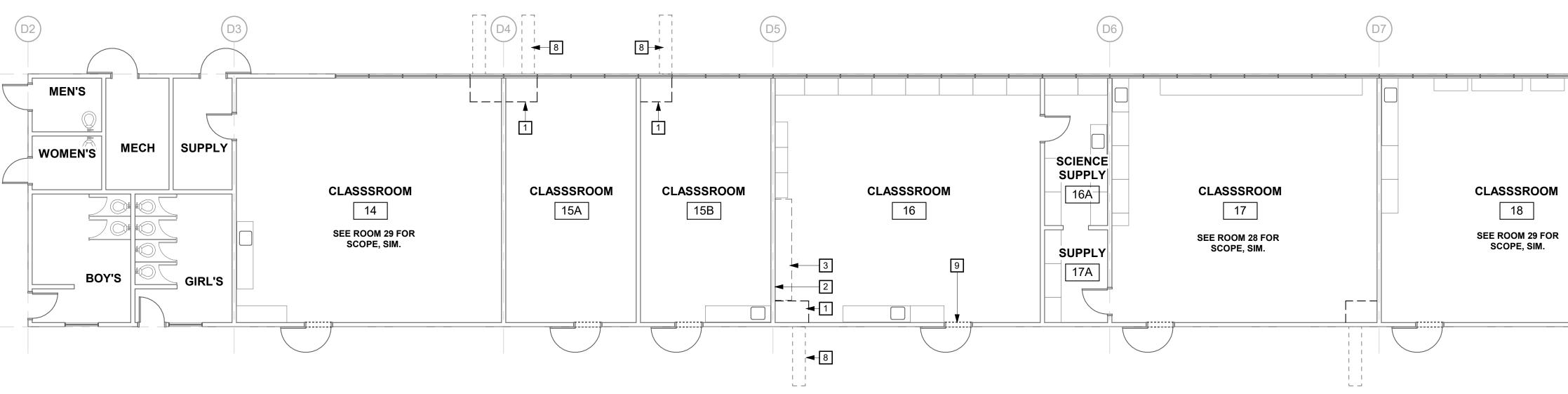
EXISTING FIRE HYDRANT

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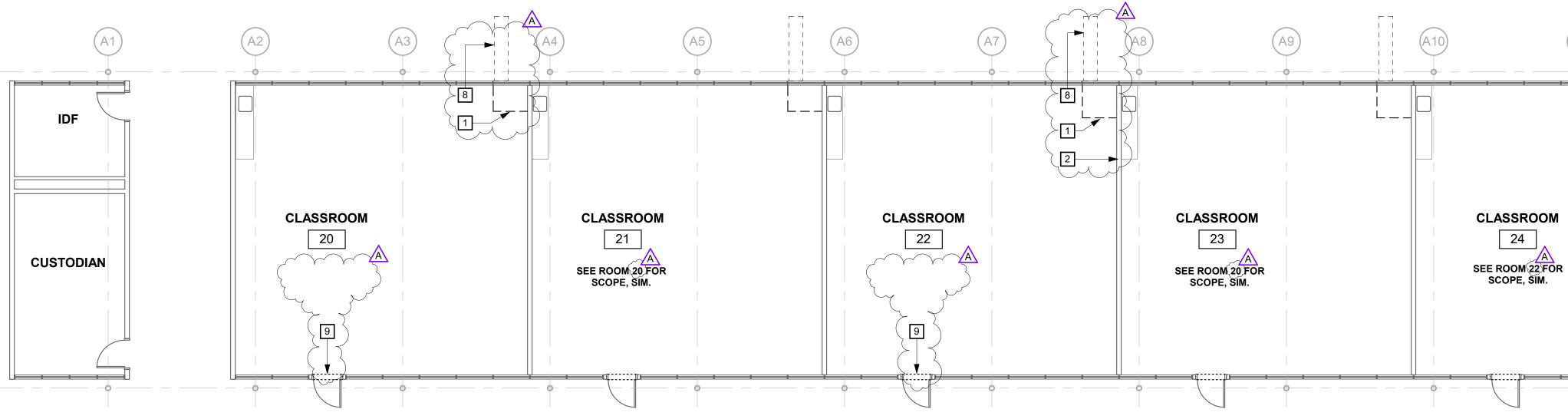
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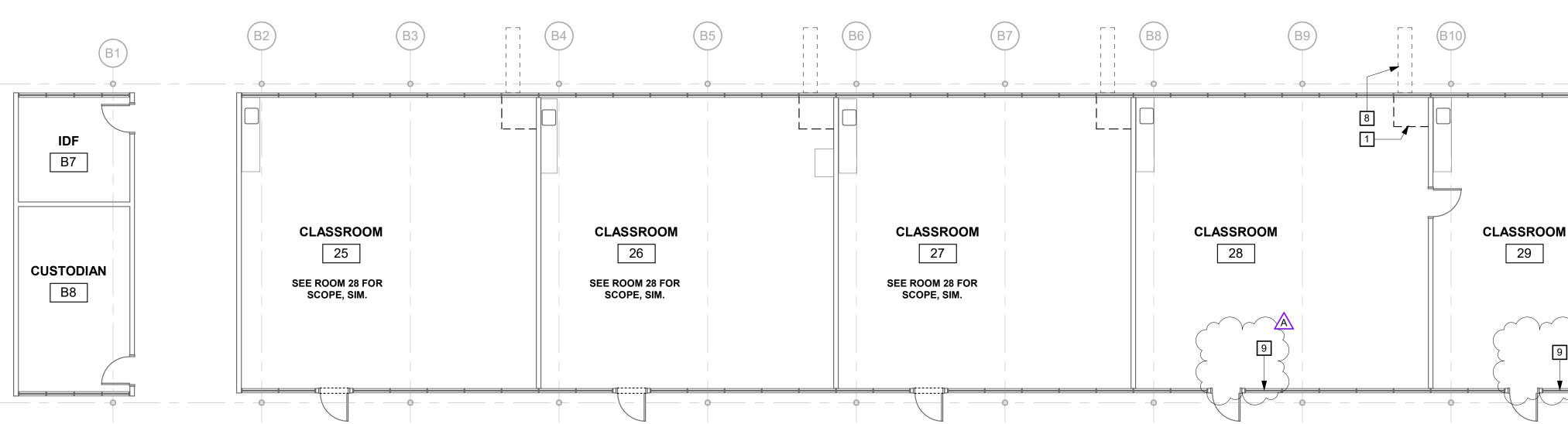




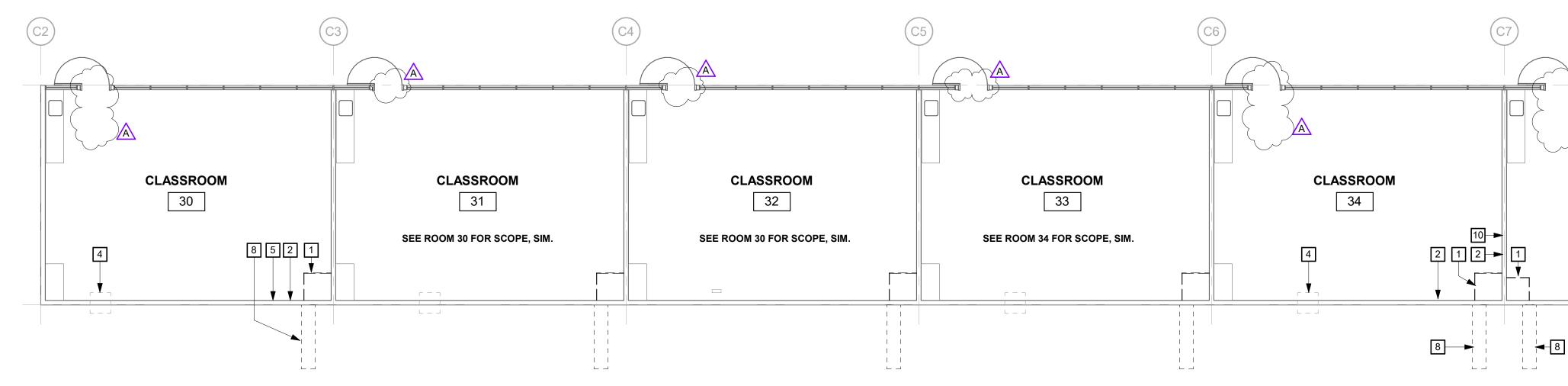
DEMOLITION FLOOR PLAN - BLDG D SCALE: 1/8" = 1'-0"

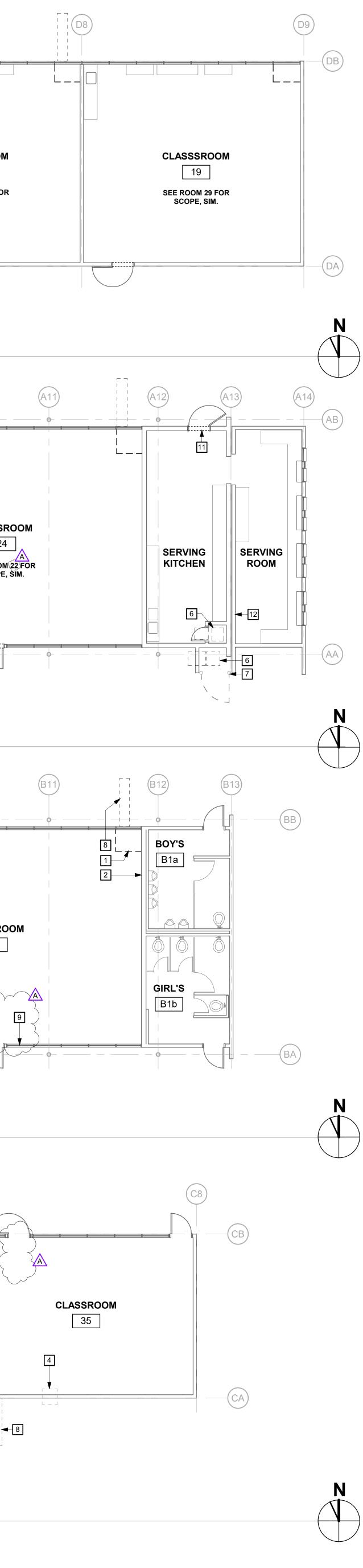


2 DEMOLITION FLOOR PLAN - BLDG A SCALE: 1/8" = 1'-0"



3 DEMOLITION FLOOR PLAN - BLDG B SCALE: 1/8" = 1'-0"





GENERAL SHEET NOTES

- ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR Α PLANS.
- REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION WORK.
- VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.
- ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.
- REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT, AS REQUIRED TO FACILITATE SCOPE OF WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- REMOVE ADJACENT FINISHES AS REQUIRED TO FACILITATE SCOPE OF WORK. PATCH BACK IN KIND.
- EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND G PROTECTED DURING CONSTRUCTION.
- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN н APPROVED BY DSA
- DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- REFERTO "HVAC AND POWER UPGRADE PROJECT HAZARDOUS MATERIALS SURVEY REPORT." CONTRACTOR TO ABATE AREAS AFFECTED BY SCOPE OF WORK. REMOVE AND DISPOSE OF MATERIALS PER REPORT RECOMMENDATIONS.

DEMOLITION FLOOR PLAN KEYNOTES

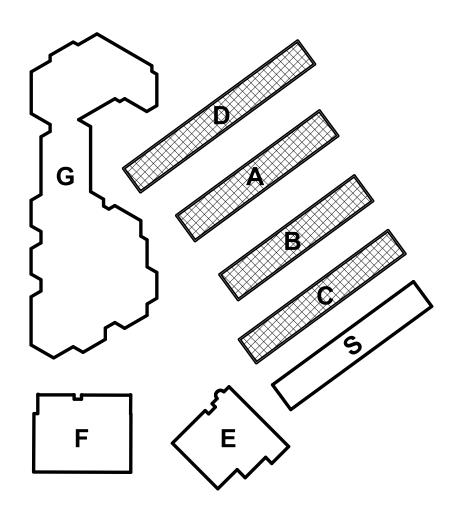
- 1 REMOVE (E) MECHANICAL UNIT AND METAL ENCLOSURE, S.M.D. RECONFIGURE (E) WIREMOLD. SHORTEN CONFIGURATION TIGHT TO NEW ENCLOSURE AND PROVIDE END CAP.
- REMOVE (E) 12' BASE CASEWORK. 4 REMOVE (E) A/C UNIT AND SURROUNDING (E) GLAZING. PREP FOR NEW WORK.
- 5 SALVAGE (E) 4' X 4' TACK PANEL AND TURN OVER TO DISTRICT. 6 REMOVE (E) MECHANICAL UNIT, S.M.D.
- 7 (E) CHAINLINK FENCE AND GATE TO BE REMOVED. GRIND DOWN POLE AND INFILL W/ CÓNCRETE, FLUSH TO ADJACENT.
- 8 REMOVE PAVING AND PREP FOR NEW WORK, S.M.D. 9 REMOVE (E) WINDOW GLAZING ABOVE AND PREP FOR NEW WORK, S.M.D
- 10 REMOVE (E) TACK PANEL AND TURN OVER TO DISTRICT
- 11 CUT AND PREP OPENING FOR NEW WORK, S.M.D. DO NOT OVERCUT. 12 PREP FOR NEW WORK, S.M.D.

GRAPHIC KEY

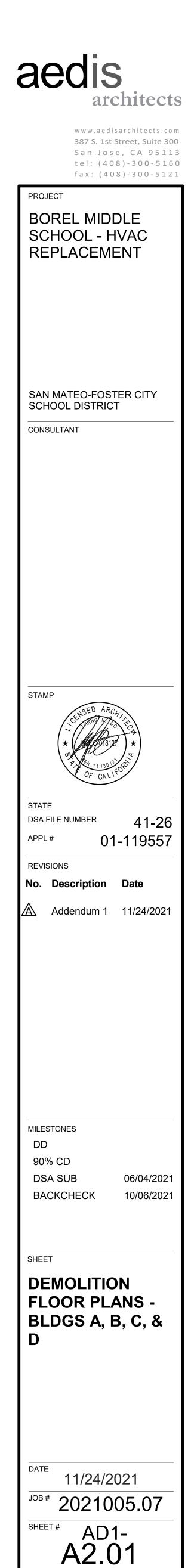
EXISTING WALL TO REMAIN

EXISTING STOREFRONT OR WINDOW TO REMAIN

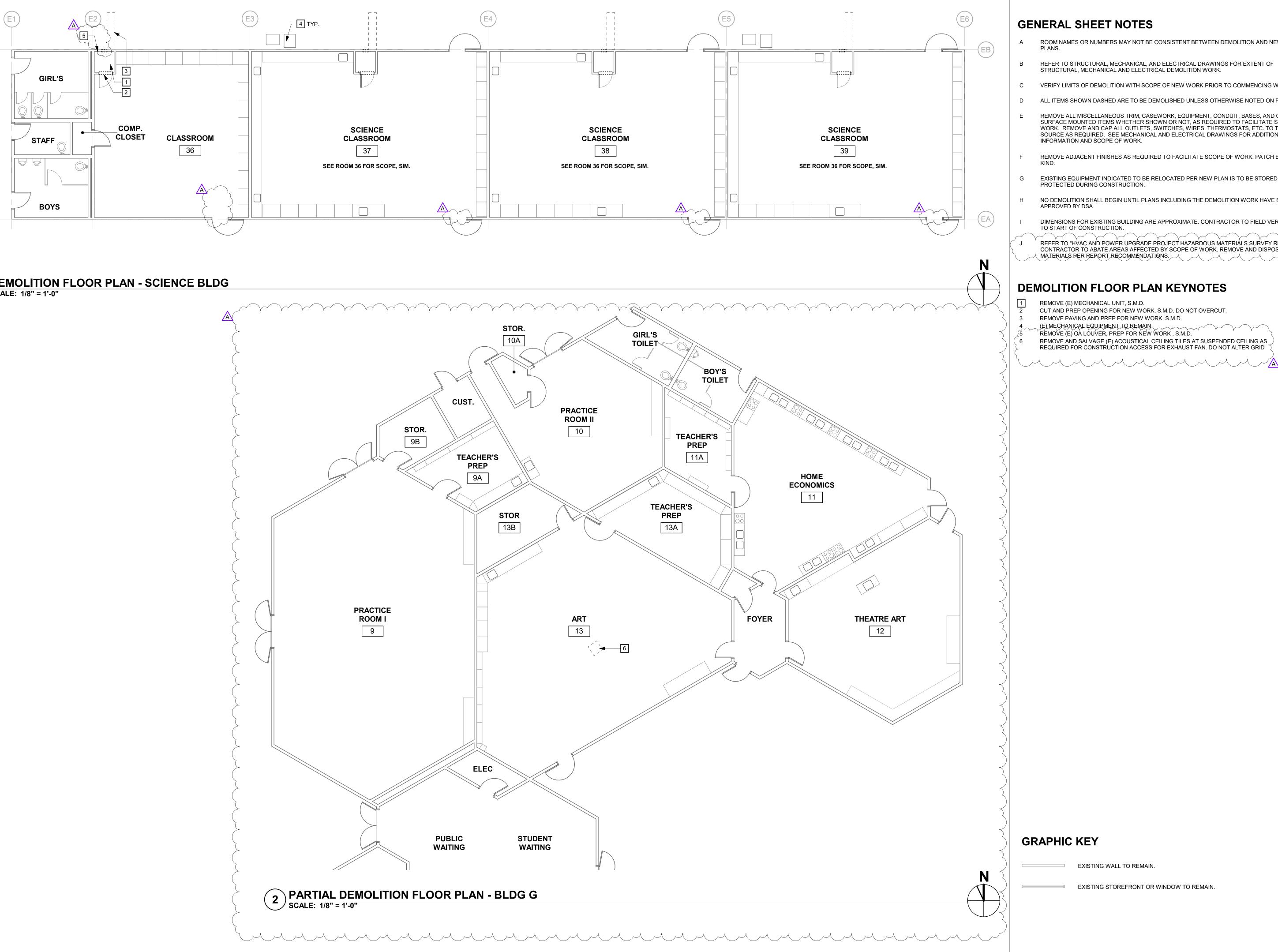
BUILDING KEY



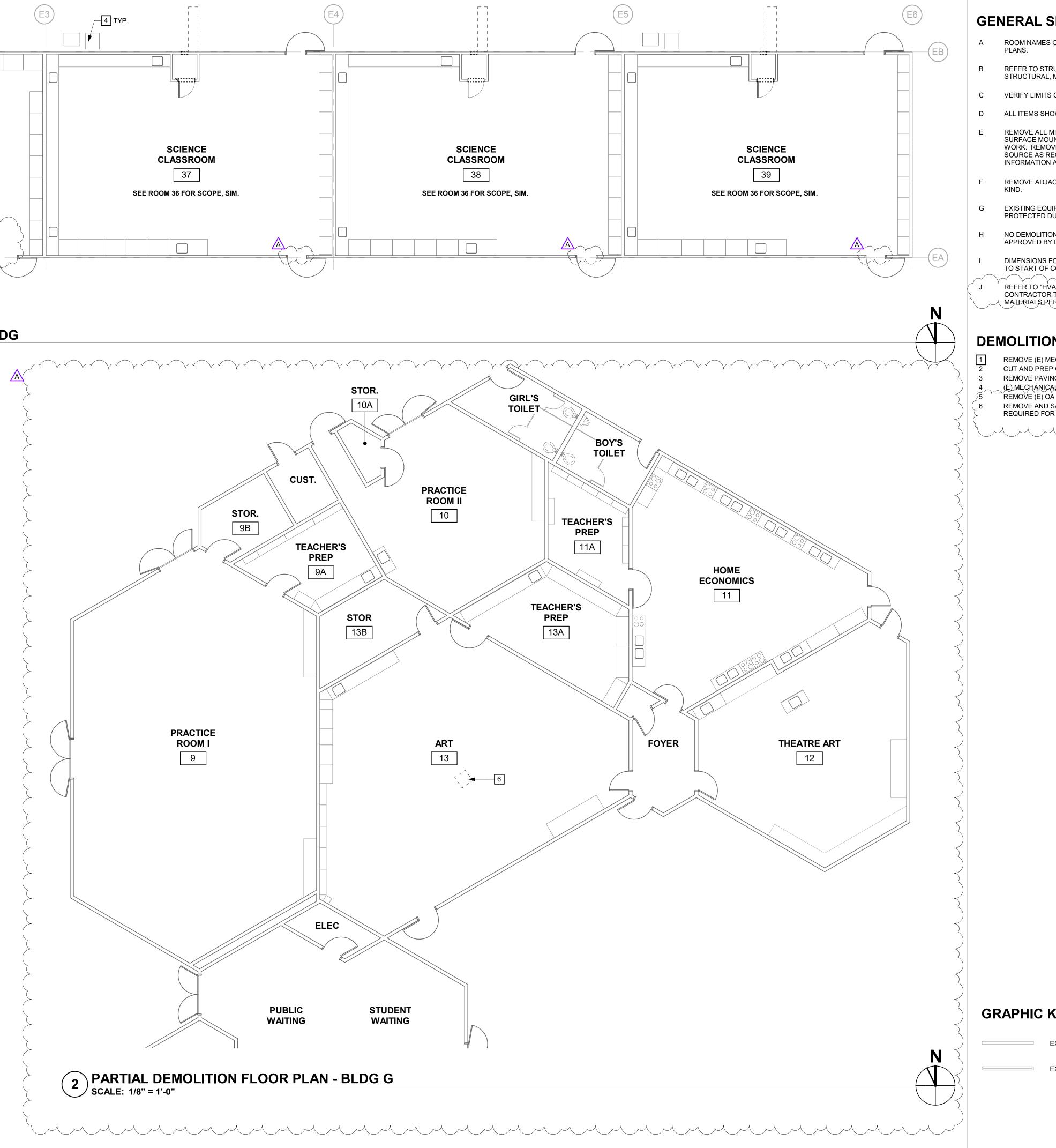
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1 DEMOLITION FLOOR PLAN - SCIENCE BLDG SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.
REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION WORK.
VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.
ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

- REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT, AS REQUIRED TO FACILITATE SCOPE OF WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- REMOVE ADJACENT FINISHES AS REQUIRED TO FACILITATE SCOPE OF WORK. PATCH BACK IN G EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.
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- DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- REFER TO "HVAC AND POWER UPGRADE PROJECT HAZARDOUS MATERIALS SURVEY REPORT." CONTRACTOR TO ABATE AREAS AFFECTED BY SCOPE OF WORK. REMOVE AND DISPOSE OF

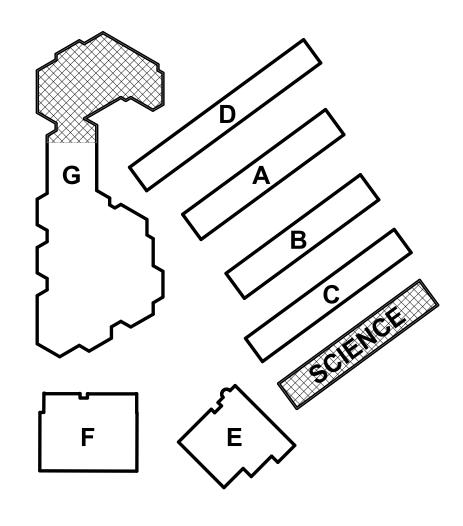
DEMOLITION FLOOR PLAN KEYNOTES

- REMOVE (E) MECHANICAL UNIT, S.M.D. CUT AND PREP OPENING FOR NEW WORK, S.M.D. DO NOT OVERCUT.
- REMOVE PAVING AND PREP FOR NEW WORK, S.M.D.
- (E) MECHANICAL EQUIPMENT TO REMAIN REMOVE (E) OA LOUVER, PREP FOR NEW WORK , S.M.D. REMOVE AND SALVAGE (E) ACOUSTICAL CEILING TILES AT SUSPENDED CEILING AS REQUIRED FOR CONSTRUCTION ACCESS FOR EXHAUST FAN. DO NOT ALTER GRID

GRAPHIC KEY

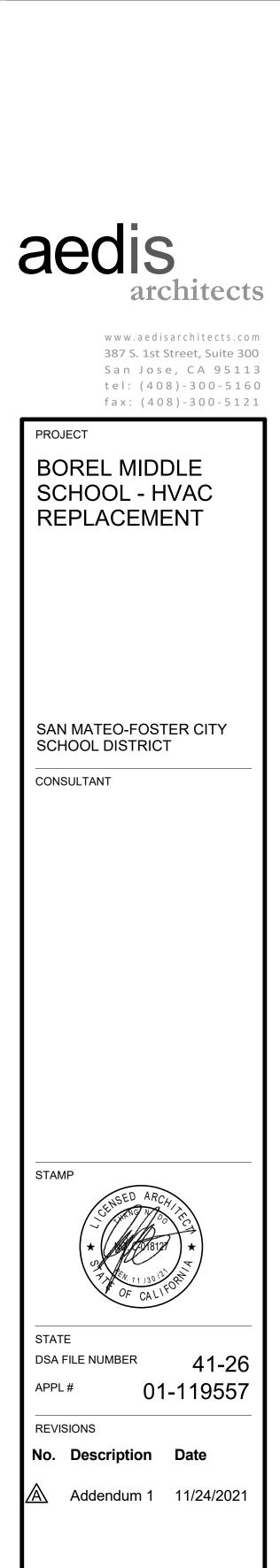
- EXISTING WALL TO REMAIN.
 - EXISTING STOREFRONT OR WINDOW TO REMAIN.

BUILDING KEY



ON PLANS.



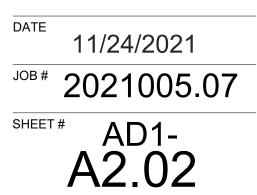


MILESTONES DD 90% CD DSA SUB BACKCHECK

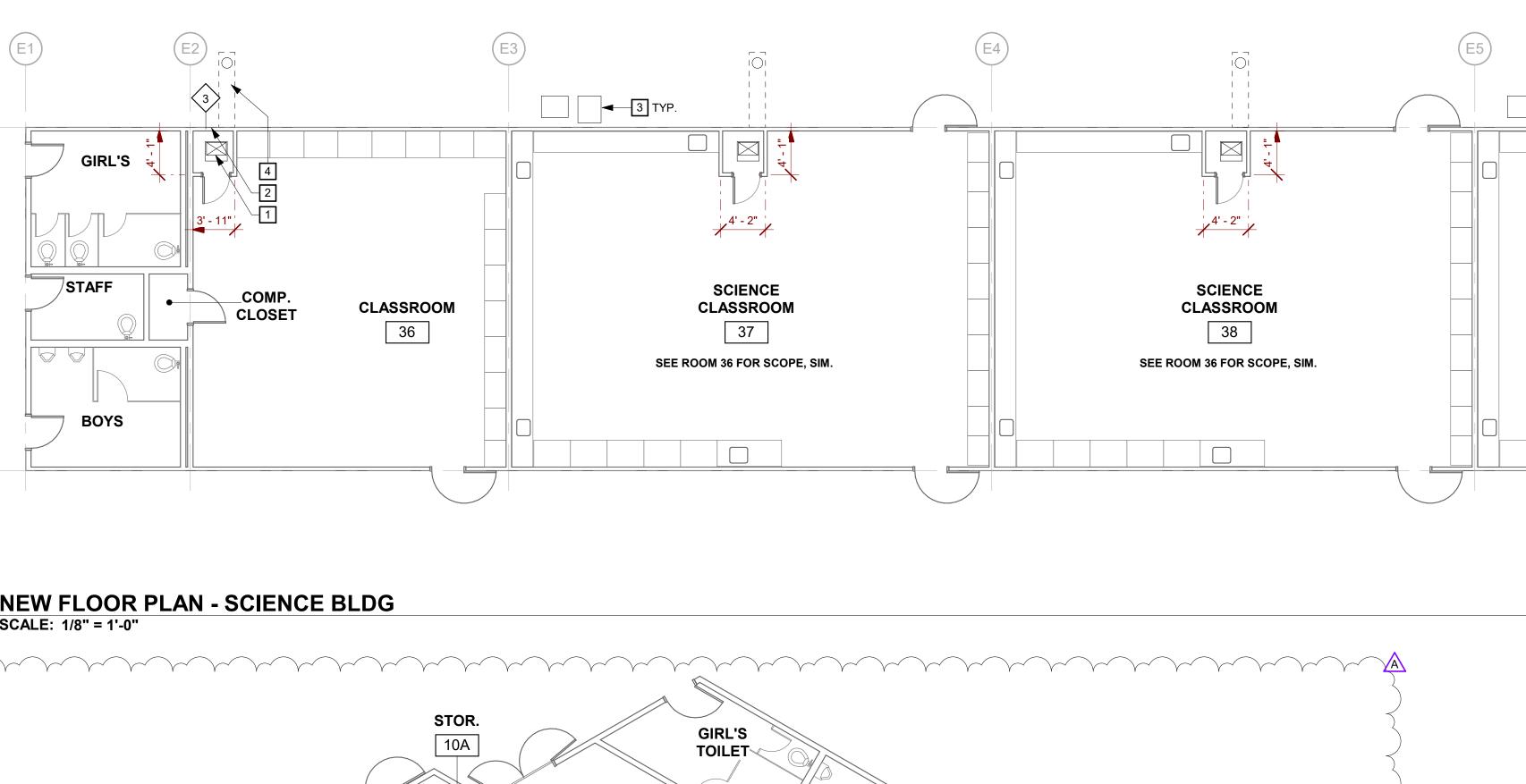
06/04/2021 10/06/2022

SHEET

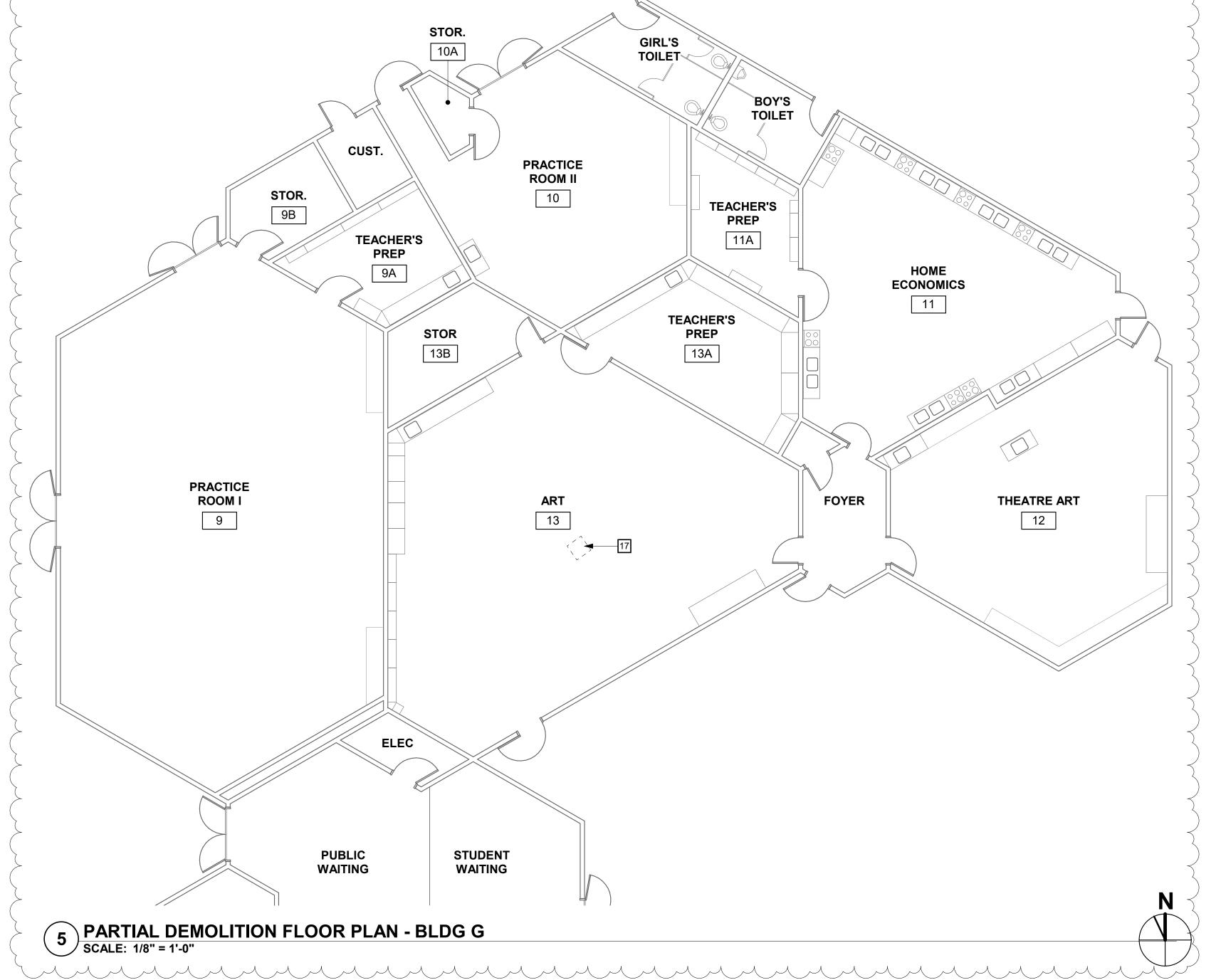




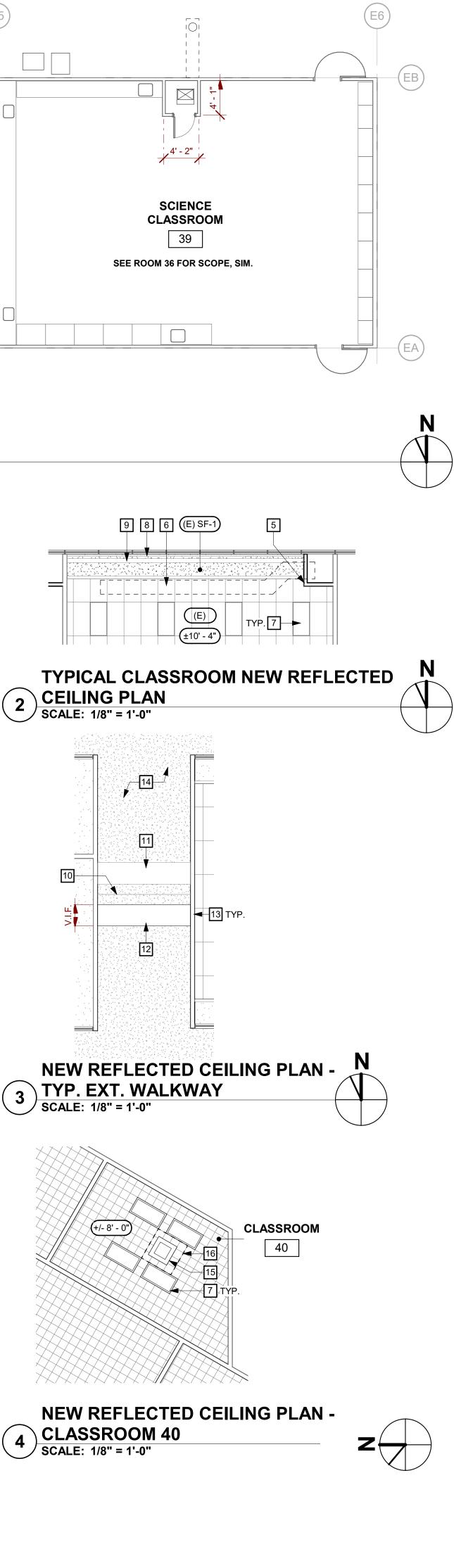




1 NEW FLOOR PLAN - SCIENCE BLDG SCALE: 1/8" = 1'-0"



13:55 ang\Do 11/24 C:\Us



GENERAL SHEET NOTES

- REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK.
- DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO
- START OF CONSTRUCTION. PATCH AND PAINT WALL AT REMOVED CASEWORK, REMOVED WALL MOUNTED BOARDS, OR
- RECONFIGURED RACEWAY. D SCRIBE FINISHES TIGHT TO ADJACENT CONDITIONS INCLUDING WALL FINISHES, WINDOWS, AND
- DUCTWORK. PROVIDE NEW WALL BASE AT ALL REMOVED CASEWORK, NEW PARTITION WALLS, OR PATCHED F
- FLOORING.
- REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN. RECONFIGURE A.C.T. GRID TIGHT TO NEW MECHANICAL ENCLOSURE WALL FINISH. PROVIDE
- NEW LAY IN CEILING TILES AT RECONFIGURED AREA. AREA CUT OR ALTERED IN EACH ROOM SHALL NOT EXCEED 10 PERCENT OF THE ENTIRE CEILING AREA.
- PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

NEW FLOOR PLAN & RCP KEYNOTES

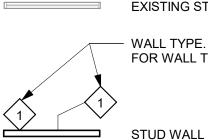
- 1 MECHANICAL EQUIPMENT, SEE DETAIL 20/A8.10, S.M.D. REMOVE (E) ROOFING TO SUBSTRATE AND PREP OPENING FOR NEW WORK. AT REGISTER OR LOUVER, PATCH WALL TO MATCH ADJACENT. MECHANICAL EQUIPMENT, S.M.D. LOCATE NEW HOUSEKEEPING PAD SO (E) R.W.L.
- DOES NOT DRAIN ONTO PAD. V.I.F. PATCH PAVING AT DRY WELL. SEE A1.02, 2/A8.10, 9/A8.10, AND S.M.D. REPLACE PERIMETER TRIM AND PROVIDE NEW CEILING TILE ADJACENT. REPLACE
- FREE AND FIXED ENDS IN KIND, SEE DETAILS 15/A9.10, 11/A9.10, & 12/A9.10. EXPOSED SUSPENDED DUCTWORK OBSCURED FOR CLARITY, S.M.D.
- (E) LIGHT FIXTURE (E) CURTAIN TRACK; LOCATION VARIES, V.I.F.
- (E) PAINTED METAL ENCLOSURE, WHERE OCCURS V.I.F. 9 10 (E) RIDGE.
- 11 (E) PAINTED SHEET METAL CONDUIT ENCLOSURE TO REMAIN. PAINTED 18 GA. SHEET METAL CONDUIT ENCLOSURE. SEE DETAIL 13/A8.10 AND S.E.D. 12 13 S.E.D. FOR CONDUIT PENETRATION DETAIL.
- 14 (E) CEMENT PLASTER FINISH.
- 15 MECHANICAL EQUIPMENT, S.M.D. 16 REPLACE AND PAINT GLUE-UP A.C.T. AT REMOVED MECHANICAL UNIT PRIOR TO

INSTALLATION OF NEW UNIT. 17 PREP AND REINSTALL ACOUSTICAL CEILING TILES AT EXHAUST FAN (17)

GRAPHIC KEY

EXISTING NONRATED WALL TO REMAIN.

EXISTING STOREFRONT OR WINDOW TO REMAIN.



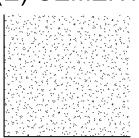
- WALL TYPE. REFER TO SHEET A9.10 FOR WALL TYPE DESCRIPTION, TYP.

(E) 2'-0" x 4'-0" A.C.T. SUSPENDED CEILING SYSTEM

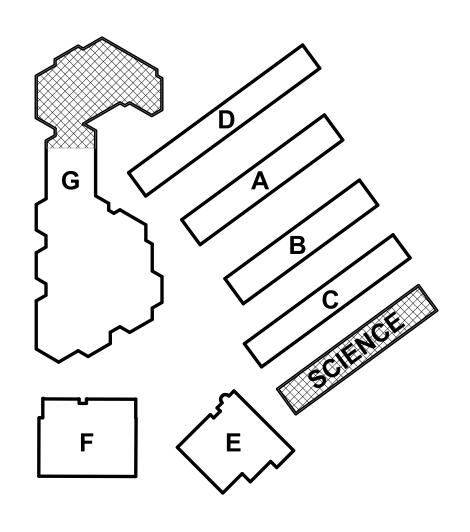
V		

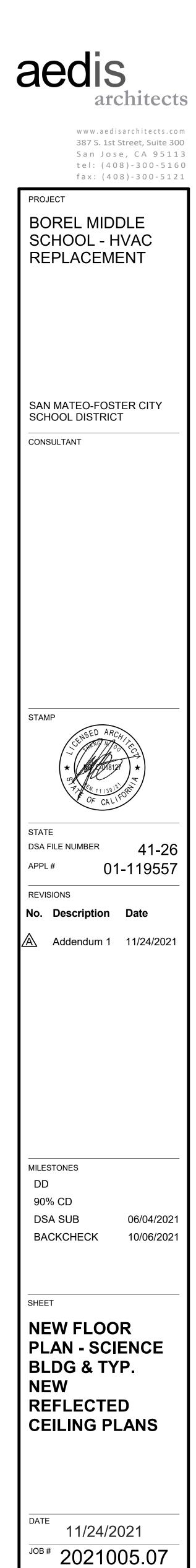
- SUSPENDED CEILING GRID - DIRECTION OF MAIN RUNNER INSTALL CEILING GRID STARTING AT THE CENTER OF EACH ROOM AND WORK TO EXTERIOR WALLS. U.O.N.

(E) CEMENT PLASTER SOFFIT



BUILDING KEY

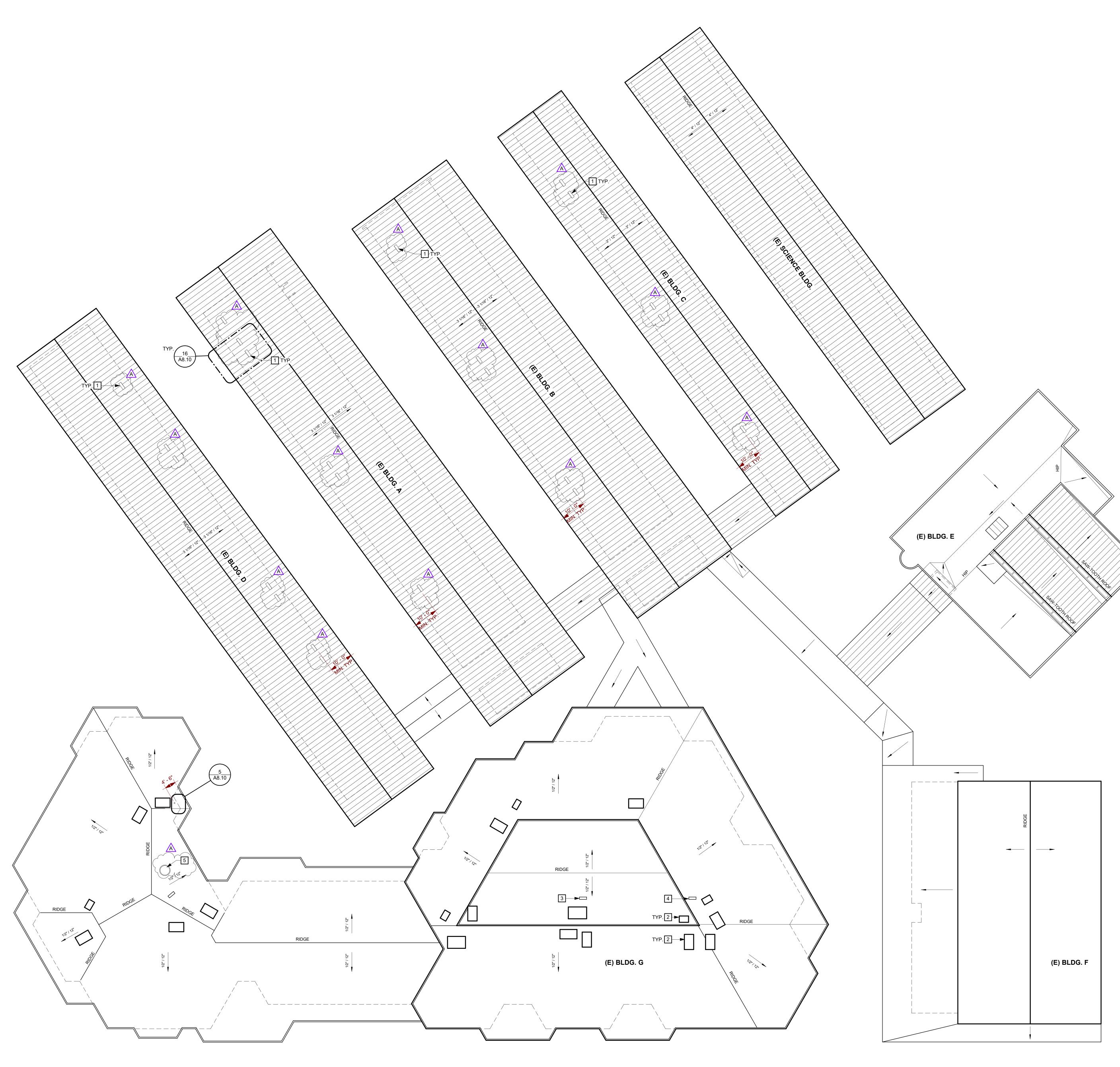






^{*} AD1-A3.02

SHEET #



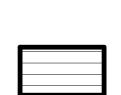
GENERAL SHEET NOTES

- A REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK.
- В
- SIZE OF MECHANICAL EQUIPMENT PADS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY REQUIRED PAD DIMENSION WITH EQUIPMENT MANUFACTURER.
- C (E) FLUES AND AIR INTAKES NOT SHOWN AT STANDING SEAM ROOFING. ABANDON IN PLACE. S.M.D.

ROOF PLAN KEYNOTES

- MECHANICAL UNIT ON PLATFORM. REMOVE (E) ROOFING TO SUBSTRATE FOR CONSTRUCTION ACCESS. S.M.D. AND SEE DETAIL 10/A8.10, PAINT MECHANICAL UNIT TO MATCH ROOF COLOR MECHANICAL UNIT, S.M.D. REMOVE EXISTING CURB PRIOR TO PROVIDING NEW. PATCH ROOFING, SEE DETAIL 19/A8.10. 2 3 ELECTRICAL PANEL AT (E) MOUNT, S.E.D.
- ELECTRICAL PANEL, S.E.D. AND SEE DETAIL 17/A8.10 MECHANICAL EQUIPMENT, SEE DETAIL 20/A8.10, S.M.D. REMOVE (E) ROOFING TO SUBSTRATE AND PREP OPENING FOR NEW WORK. 4

GRAPHIC KEY



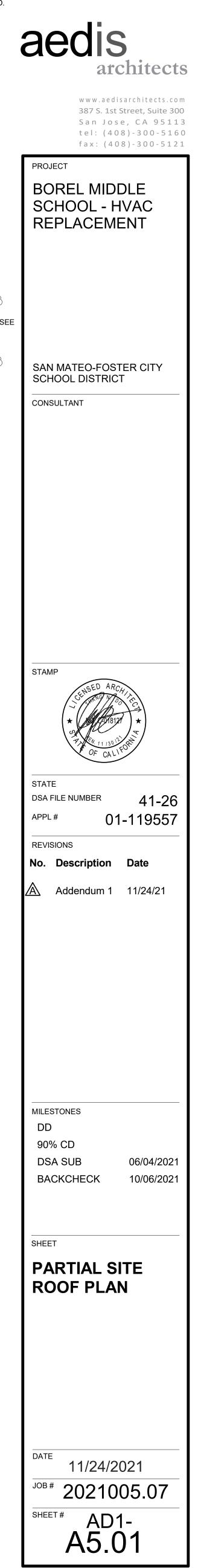
(E) STANDING SEAM, CLASS C MINIMUM

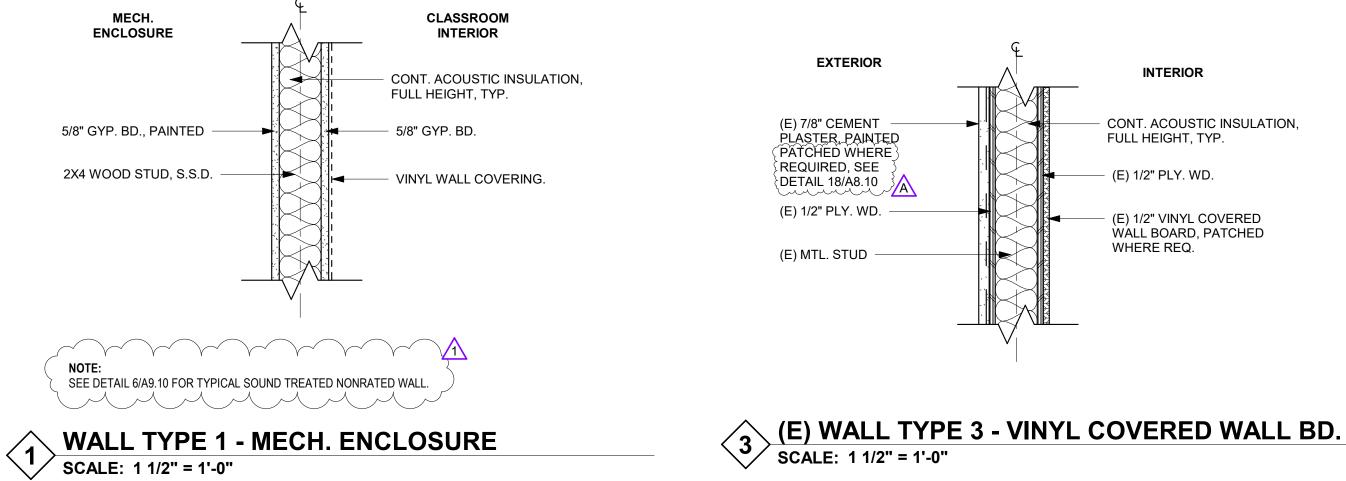
(E) SINGLE PLY ROOFING, CLASS C MINIMUM



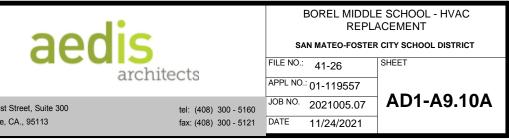
OUTLINE OF WALL BELOW







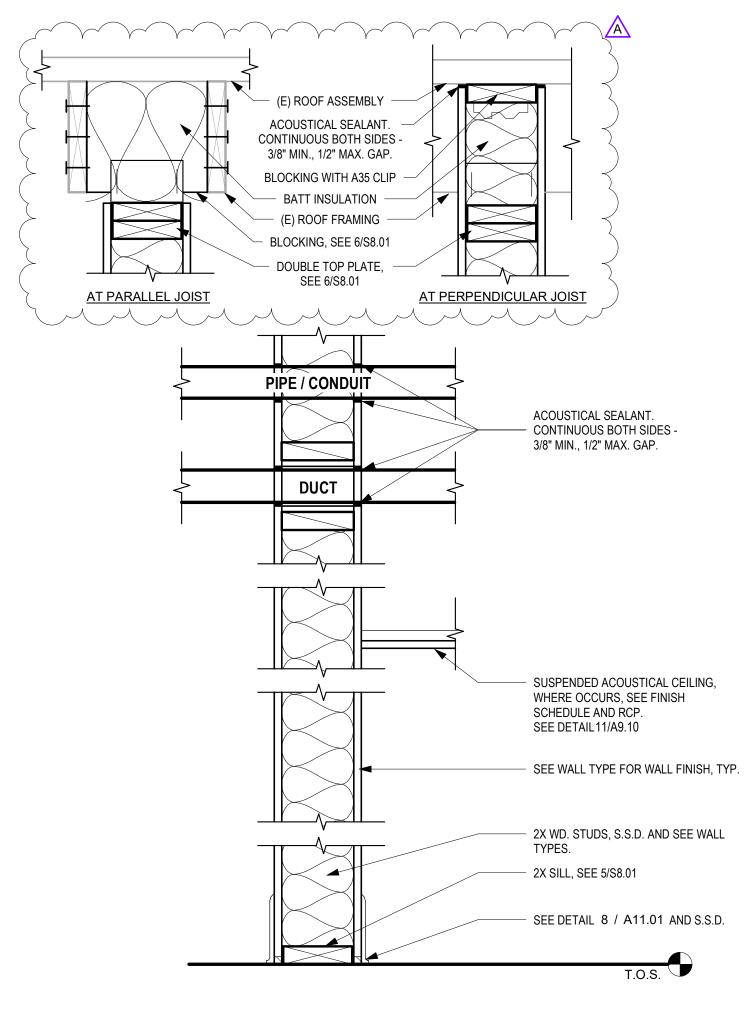




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INTERIOR

- CONT. ACOUSTIC INSULATION, FULL HEIGHT, TYP.
- (E) 1/2" PLY. WD.
- (E) 1/2" VINYL COVERED WALL BOARD, PATCHED WHERE REQ.



NOTES:

FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, 1. GYPSUM BOARD AND ACOUSTICAL SEALANT SIMILAR TO DETAIL AT DUCT.





		E	-	E SCHOOL - HVAC
aed	IS	SA	N MATEO-FOSTER	CITY SCHOOL DISTRICT
ucu	architects	FILE NO.:	41-26	SHEET
	arcrittects	APPL NO	01-119557	
387 S. 1st Street, Suite 300	tel: (408) 300 - 5160	JOB NO.	2021005.07	AD1-A9.10B
San Jose, CA., 95113	fax: (408) 300 - 5121	DATE	11/24/2021	

AIR DISTRIBUTION SCHEDULE									
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	MOUNTING DETAIL	NOTES			
HSS-1	TITUS	S300FL	HIGH SIDEWALL SUPPLY	TYPE 1	17/MP6.01	1, 2, 4			
HSS-2	TITUS	272FS	HIGH SIDEWALL SUPPLY	TYPE 1	13/MP6.01	1,2			
HSR-1	TITUS	350RL	HIGH SIDEWALL RETURN	TYPE 1	13/MP6.01	2, 3			
LSR-1	TITUS	350RL	LOW SIDEWALL RETURN	TYPE 1	13/MP6.01	2, 3			
RG-1	TITUS	30R	RELIEF GRILLE	SURFACE MOUNT	2/M6.02	2, 5			
EG-1	TITUS	30R	EXHAUST/ INTAKE GRILLE	SURFACE MOUNT	3/M6.02	2			

					COOLING	HEATING				ANT PIPING				LECTRICA				
ΓAG	MANUFACTURER	MODEL	BUILDING	LOCATION			AIRFLOW CFM	OUTSIDE AIR CFM			SEER	HSPF				WEIGHT LBS	MOUNTING DETAIL	NOTES
					TOTAL MBH	TOTAL MBH			LIQUID	GAS			V / PH	MCA	MOCP	LDO		
C-36	SAMSUNG	AC054KNZDCH/AA		CLASSROOM 36	- 54	60	1200	450	3/8"	3/4"	-	-		NOTE 8		164	12/MP6.01	2, 3, 4, 5, 6, 7, 8
IP-36	SAMSUNG	AC054KXADCH/AA		SLAB	- 54	00	-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	16/MP6.01	1
-C-37	SAMSUNG	AC054KNZDCH/AA		CLASSROOM 37	- 54	60	1600	450	3/8"	3/4"	-	-		NOTE 8		164	12/MP6.01	2, 3, 4, 5, 6, 7, 8
IP-37	SAMSUNG	AC054KXADCH/AA	SCIENCE	SLAB	- 54	60	-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	16/MP6.01	1
-C-38	SAMSUNG	AC054KNZDCH/AA	BLDG	CLASSROOM 38	- 54	60	1600	450	3/8"	3/4"	-	-		NOTE 8		164	12/MP6.01	2, 3, 4, 5, 6, 7, 8
1P-38	SAMSUNG	AC054KXADCH/AA		SLAB	- 54	00	-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	16/MP6.01	1
-C-39	SAMSUNG	AC054KNZDCH/AA		CLASSROOM 39	- 54	60	1600	450	3/8"	3/4"	-	-		NOTE 8		164	12/MP6.01	2, 3, 4, 5, 6, 7, 8
IP-39	SAMSUNG	AC054KXADCH/AA		SLAB	04	00	-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	16/MP6.01	1

AMBIENT TEMPERATURE. 2. CFM BASED ON 0.55 ESP.

					PAC	KAGED R	OOFTOP /	AIR CONI	DITIONING	G UNITS	S SCHEDI	JLE							
TAG	MANUFACTURER	MODEL NO.		ING MBH		TING MBH	AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR BHP	SEER	AFUE %		LECTRIC/		WEIGHT LBS	MOUNTING	NOTES
			TOTAL	SENSIBLE	INPUT	OUTPUT		IN. W.G.		REIVI	БПР		70	V / PH	MCA	MOCP	LDO	DETAIL	
AC-1	CARRIER	48JCDV05	49.3	45.7	50 67	40 54	1600	1.0	450	2883	1.46	20	81	208 / 3	25	30	695	2/MP6.01	1, 2, 3, 4, 9
AC-2	CARRIER	48JCDV05	49.3	45.7	50 67	40 54	1600	1.0	450	2883	1.46	20	81	208 / 3	25	30	695	2/MP6.01	1, 2, 3, 4, 9
AC-3	CARRIER	48VGNE24	23.0	21.9	40	33	850	0.8	350	1050	0.36	15	81	208 / 1	19.4	30	350	14/MP6.01	1, 2, 3, 7, 8, 9
AC-4	CARRIER	48JCDV05	49.3	45.7	50 67	40 54	1600	1.0	450	2883	1.46	20	81	208 / 3	25	30	695	2/MP6.01	1, 2, 3, 4, 9
AC-5	CARRIER	48JCDV05	49.3	45.7	50 67	40 54	1600	1.0	450	2883	1.46	20	81	208 / 3	25	30	695	2/MP6.01	1, 2, 3, 4, 9
AC-6	CARRIER	48JCDV04	36.3	32.8	50 67	40 54	1200	1.0	450	2059	0.64	20	81	208 / 3	22	30	670	2/MP6.01	1, 2, 3, 4, 9
AC-8	CARRIER	48VGNA30	29.1	27.3	40	32	850	0.8	350	1050	0.36	15	78	208 / 3	16.2	20	355	14/MP6.01	1, 2, 3, 7, 8, 9
AC-9	CARRIER	48JCDV04	36.3	32.8	50 67	40 54	1200	1.0	450	2059	0.64	20	81	208 / 3	22	30	670	2/MP6.01	1, 2, 3, 4, 9
AC-10	CARRIER	48HCDD08	93.3	85.2	90 125	73 103	3000	1.2	450	939	1.79	13.8	82	208 / 3	41	50	1100	2/MP6.01	1, 2, 3, 6, 9
AC-11	CARRIER	48HCDD08	93.3	85.2	90 125	73 103	3000	1.2	450	939	1.79	13.8	82	208 / 3	41	50	1100	2/MP6.01	1, 2, 3, 6, 9
AC-12	CARRIER	48VGNA30	29.1	27.3	40	32	850	0.8	350	1050	0.36	15	78	208 / 3	16.2	20	355	14/MP6.01	1, 2, 3, 7, 8, 9
AC-13	CARRIER	48JCDV05	49.3	45.7	50 67	40 54	1600	1.0	450	2883	1.46	20	81	208 / 3	25	30	695	2/MP6.01	1, 2, 3, 4, 9
AC-14	CARRIER	48VGNA30	29.1	27.3	40	32	850	0.8	350	1050	0.36	15	78	208 / 3	16.2	20	355	14/MP6.01	1, 2, 3, 7, 8, 9
AC-15	CARRIER	48JCDV04	36.3	32.8	50 67	40 54	1200	1.0	450	2059	0.64	20	81	208 / 3	22	30	670	2/MP6.01	1, 2, 3, 4, 9
AC-16	CARRIER	48JCDV05	49.3	45.7	50 67	40 54	1600	1.0	450	2883	1.46	20	81	208 / 3	25	30	695	2/MP6.01	1, 2, 3, 4, 9
AC-17	CARRIER	48JCDV04	36.3	32.8	50 67	40 54	1200	1.0	450	2059	0.64	20	81	208 / 3	22	30	670	2/MP6.01	1, 2, 3, 4, 9
AC-18	CARRIER	48VGNA30	29.1	27.3	40	32	850	0.8	350	1050	0.36	15	78	208 / 3	16.2	20	355	14/MP6.01	1, 2, 3, 7, 8, 9
AC-19	CARRIER	48FCDM07	72.4	67.3	67	54	2400	1.0	450	2589	1.86	15	81	208 / 3	30	45	710	2/MP6.01	1, 2, 3, 5, 9
AC-20	CARRIER	48JCDV04	36.3	32.8	50 67	40 54	1200	1.0	450	2059	0.64	20	81	208/3	22	30	670	2/MP6.01	1, 2, 3, 4, 9

PROVIDE WITH MERV 13 FILTERS.

HP-24A FC-25 HP-25 FC-26 HP-26 FC-27 HP-27 WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES. 6. PROVIDE WITH LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF, TWO STAGE COOLING, MEDIUM STATIC PROVIDE WITH DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP5.01 FOR CONTROLS. BELT DRIVE FAN, LOUVERED HAIL GUARDS, HINGED ACCESS PANELS, UNPOWERED CONVENIENCE OUTLET, FC-28 PHASE MONITOR, TWO-SPEED INDOOR FAN MOTOR VFD CONTROLLER, AND E-COAT COILS. 4. PROVIDE WITH LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF, VARIABLE SPEED COOLING CAPACITY, HIGH 7. PROVIDE WITH LOW NOX, TIN-PLATED INDOOR COIL HAIRPINS, CRANKCASE HEATER, AND TIME GUARD II. STATIC DIRECT DRIVE FAN, LOUVERED HAIL GUARDS, HINGED ACCESS PANELS, UNPOWERED CONVENIENCE 8. PROVIDE WITH MICROMETL CURB ADAPTOR. CONTRACTOR TO FIELD VERIFY ALL EXISTING CURB DIMENSIONS. HP-28 OUTLET, PHASE MONITOR, AND E-COAT COILS. 9. PROVIDE MICROMETL ROOF CURB TO MATCH EXISTING. PROVIDE WITH LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF, TWO STAGE COOLING, HIGH STATIC DIRECT DRIVE FAN, LOUVERED HAIL GUARDS, HINGED ACCESS PANELS, UNPOWERED CONVENIENCE OUTLET, FC-29 PHASE MONITOR, AND E-COAT COILS. HP-29 SPLIT SYSTEM AIR CONDITIONERS SCHEDULE WEIGHT MOUNTING NOTES FC-30 COOLING HEATING AIRFLOW REFRIGERANT PIPING ELECTRICAL WING / TAG MANUFACTURER MODEL LOCATION SEER BUILDING TOTAL MBH TOTAL MBH CFM LIQUID GAS LBS DETAIL V/PH MCA MOCP HP-30 AR24TSFYBWKXCV ROOF 5/8" 125 3/MP6.01 SAMSUNG 1/4" 18 208/1 20 30 _ BUILDING A 22 24 FC-31 SAMSUNG AR24TSFYBWKNCV SERVING ROOM 657 1/4" 5/8" NOTE 1 6/MP6.01 2, 3, 4, 5 30 HP-31 UNITS ARE POWERED BY OUTDOOR UNIT. 4. PROVIDE WITH BACNET INTERFACE CARD. SEE MP5.01 FOR CONTROLS. WITH WALL MOUNTING BRACKET. 5. PROVIDE WITH CONDENSATE PUMP. WITH SAMSUNG WALL MOUNTED THERMOSTAT. FC-32 HP-32 FC-33 HP-33 FC-34 HP-34 FC-35 HP-35 2. CFM BASED ON 0.55 ESP. BACKDRAFT DAMPER, AND BIRDSCREEN. 5. EXHAUST FAN SHALL BE CONTROLLED BY LINE VOLTAGE HUMIDISTAT RH SETPOINT. EXHAUST FAN SHALL ALSO BE ALLOWED TO MANUALLY OPERATED VIA TIMER SWITCH IN PARALLEL WITH HUMIDISTAT. 3. PROVIDE WITH GREENHECK ROOF CURB. WEIGHT INCLUDES ACCESSORIES. 2. PROVIDE WITH BACKDRAFT DAMPER, AND INSECT SCREEN. 4. WITH 16"Ø DUCT TO 24x24 EG-1, SEE AIR DISTRIBUTION SCHEDULE.

	SSC)-A-1	SA
	SSI	-A-1	SA
	1. 2. 3.	PR	Door U Rovide \ Rovide \
-	٩G	MAN	NUFACT

					SPL	IT SYSTEM	I HEAT PU	JMPS SCH	HEDULE								
TAG	MANUFACTURER	MODEL	WING /	LOCATION	COOLING	HEATING	AIRFLOW	REFRIGER	ANT PIPING	SEER	HSPF	E	ELECTRICA	L	WEIGHT	MOUNTING	NOTES
	MANOFACTORER	MODEL	BUILDING	LOCATION	TOTAL MBH	TOTAL MBH	CFM	LIQUID	GAS	JLLN		V / PH	MCA	MOCP	LBS	DETAIL	NOTES
SSO-G-1	SAMSUNG	AC018JXADCH/AA		ROOF	10	20	-	1/4"	1/2"	20.1	10	208 / 1	8.1	15	100	3/MP6.01	
SSI-G-1	SAMSUNG	AC018NN4DCH/AA	BUILDING G	CLASSROOM 40	18	20 -	580	1/4"	1/2"	_	_		NOTE 1		35	10/MP6.01	2, 3, 4, 5
2. VE	 INDOOR UNITS ARE POWERED BY OUTDOOR UNIT. VERIFY REFRIGERANT PIPE SIZES AND ROUTING LIMITATIONS WITH MANUFACTURER PRIOR TO INSTALLATION. 							PROVIDE	WITH SAMS WITH BACN ILT-IN CONDE	ET INTERI	FACE CAR			CONTROLS			

1. SET BLADES AT 22.5° DEFLECTION. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS. REGISTER COLOR SELECTED BY ARCHITECT.

PROVIDE WITH AIRSAN COMPACT DUCT SILENCER. PROVIDE WITH ASD AIR SCOOP DEVICE. 5. CONTRACTOR TO FIELD VERIFY (E) DIMENSIONS PRIOR TO ORDERING.

1. SPLIT SYSTEM SHALL BE ABLE TO OPERATE AT 94% HEATING CAPACITY DOWN TO 32°F OUTDOOR

5. PROVIDE WITH CONDENSATE PUMP. 6. PROVIDE WITH 4" MERV- 13 FILTERS WITH FILTER ACCESS PANEL. 7. FAN COIL SHALL BE ADJUSTED TO OPERATE AT CONSTANT SPEED AT INDICATED CFM. 8. INDOOR UNIT POWERED BY OUTDOOR UNIT.

HP-17

FC-18

HP-18

FC-19

HP-19

FC-20

HP-20

FC-21

HP-21

FC-22

HP-22

FC-23

HP-23

FC-24

HP-24

FC-24A

8. PROVIDE WITH SAMSUNG MIM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER. 4. PROVIDE WITH DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP5.01 FOR CONTROLS.

				EXHAU	ST FANS	SCHED	ULE					
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	AIRFLOW	ESP	FAN	SOUND POWER	МОТО	R	WEIGHT	MOUNTING	NOTES
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	CFM	IN. W.G.	RPM	SONES	HP / WATTS	V / PH	LBS	DETAIL	
EF-G-1	GREENHECK	G-140-VG	BLDG G ART 13	1000	0.25	742	5.6	1/4	115 / 1	75	1/MP6.02	1, 2, 3, 4

			ROOF	HOODS SCHE	DULE					
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	TYPE	THROAT SIZE	HOOD SIZE	CURB CAP SIZE	WEIGHT LBS	MOUNTING DETAIL	NOTES
AI-G-1	GREENHECK	GRSI-20	BLDG G ART 13	INTAKE	20"Ø	35.5"Ø	30" x 30"	55	1/MP6.02	1, 2, 3, 4
1 WEIGH				3 PRO\//	DE WITH GR					

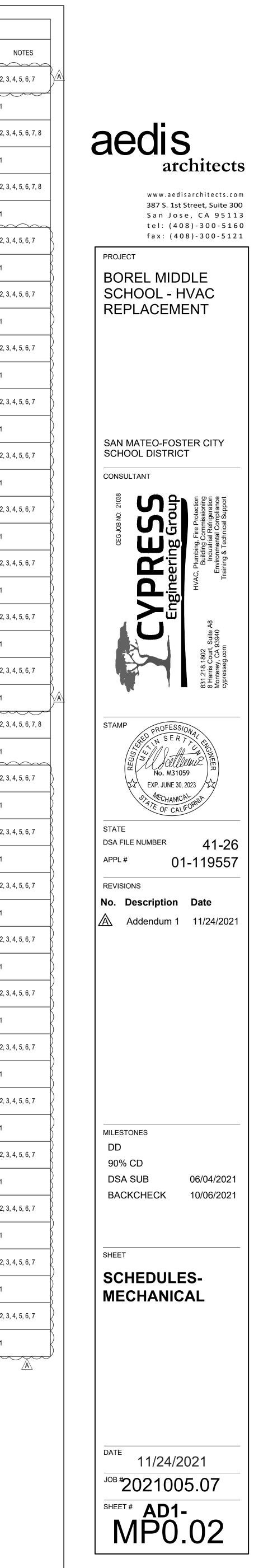
				CLASS	ROOM SPL		1	UMPS SC				F		AI	WEIGHT		
MANUFACTURER	MODEL	BUILDING	LOCATION	TOTAL MBH		AIRFLOW CFM	OUTSIDE AIR CFM	LIQUID	GAS (SEER	HSPF	V/PH	MCA	MOCP	WEIGHT LBS	MOUNTING DETAIL	NOTI
SAMSUNG	AM054TNZDCH/AA	Â	CLASSROOM 14(53	61) 1150 A	450	3/8"	3/4" ((-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	5	ROOF () -	-	3/8"	3/4"	17.5	10	208 / 1	34	50	\$ 212	3/MP6.01	1
SAMSUNG	AC030JXADCH/AA		15A	- 33	36	650	200	3/8"	3/4"	-	-		NOTE 8		125	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AC030KNZDCH/AA		ROOF CLASSROOM			-	-	3/8"	3/4"	19.6	3.33	208 / 1	34	50	155	3/MP6.01	1
SAMSUNG	AC030JXADCH/AA		15B	- 33	36	650	200	3/8"	5/8"	-	-		NOTE 8		125	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AC030KNZDCH/AA		ROOF		<u> </u>	-	-	3/8"	5/8"	19.6	3.33	208 / 1	21.7	35	155)	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG D	CLASSROOM 16	53	61) 1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	2 2 2		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 17	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15) 164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	Ŕ	ROOF	× ×		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 18 (53	61) 1150)	450	3/8"	3/4"	-	-	208/1	2.6	15) 164		2, 3, 4, 5, 6
SAMSUNG (AM053TXMDCH/AA) K	ROOF	× ×) -)	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 19	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	×		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50) 212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 20	53	61) 1150	450	3/8"	3/4"	> - >	-	208/1	2.6	15) 164)	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF (>		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 21	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15) 164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	>		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 22	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	BLDG A	ROOF	>		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 23	53	61) 1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	Ŕ	ROOF	>		-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 24	53	61	1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	Ş	ROOF (-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	
SAMSUNG	AC024KNZDCH/AA		KITCHEN	- 24	27	760	150	1/4"	5/8"	-	-		NOTE 8		100	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AC024JXADCH/AA		ROOF			-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.58	20	145	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 25(53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	> >		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 26	53	61	1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF (> >		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG B	CLASSROOM 27	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	K	ROOF	>		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 28(53	61	650	200	3/8"	5/8" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	>		-	-	3/8"	5/8"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 29	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	>		-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 30	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF (*		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50) 212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 31	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15) 164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF	>		-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	§ 1
SAMSUNG	AM054TNZDCH/AA	K	CLASSROOM 32 (53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	BLDG C	ROOF (-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	R	CLASSROOM 33	53	61	1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF (-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	R	CLASSROOM 34	53	61	1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA		ROOF (- -	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA		CLASSROOM 35	53	61	1150	450	3/8"	3/4" ((-	-	208/1	2.6	15) 164)	1/MP6.01	2, 3, 4, 5, 6
SAMSUNG	AM053TXMDCH/AA	¥	ROOF			<u>A</u> -	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	
-LIT SYSTEM SHALL B	E ABLE TO OPERATE AT	94% HEATING	GAPACITY DOWN	10 32°F OUTD	UUR		5. PROVI	DE WITH CON	IDENSATE PL	JMP.				$\overline{\nabla u}$			

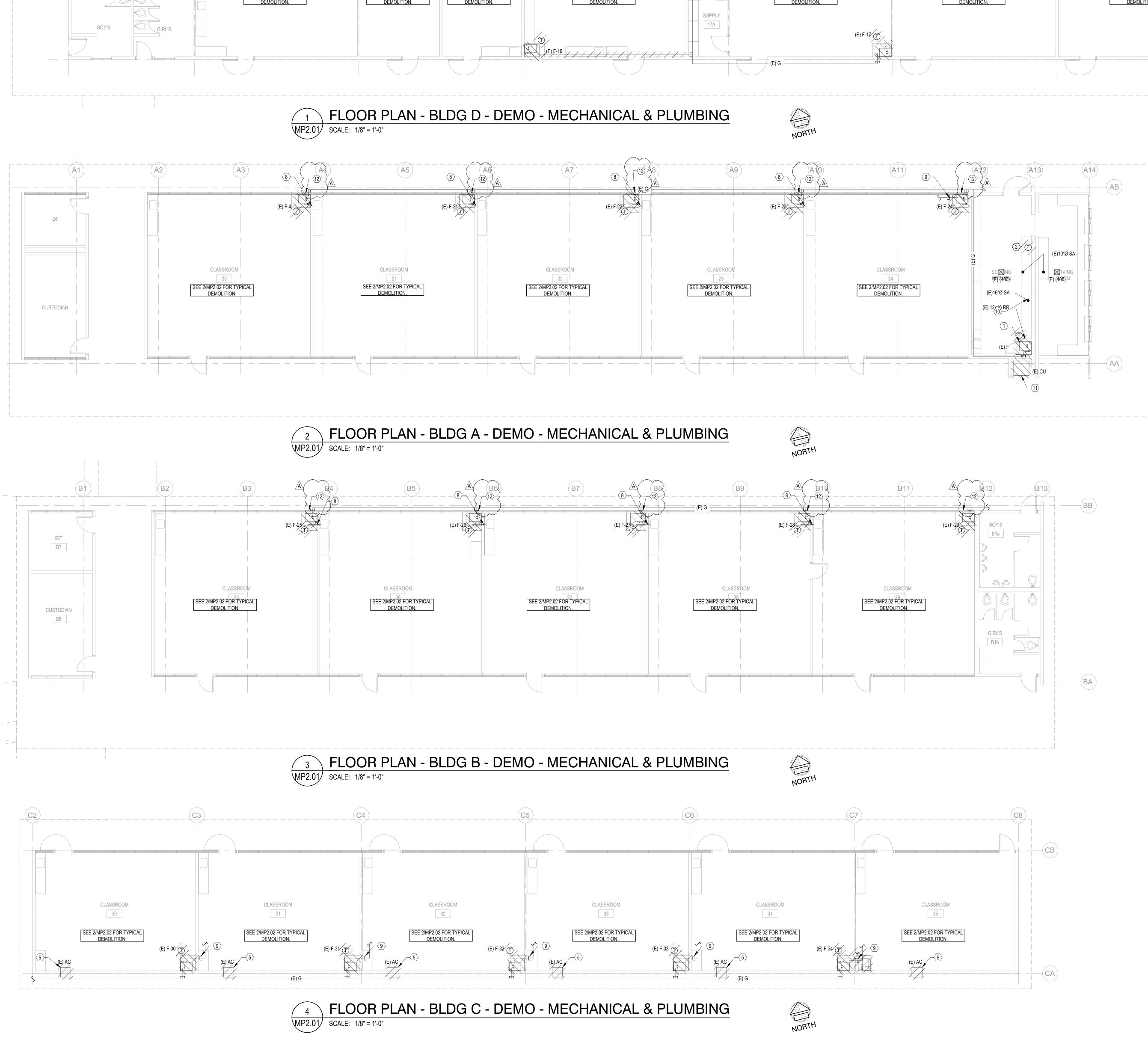
1. SPLIT SYSTEM SHALL BE ABLE TO OPERATE AT 94% HEATING CAPACITY DOWN TO 32°F OUTDOOR AMBIENT TEMPERATURE.

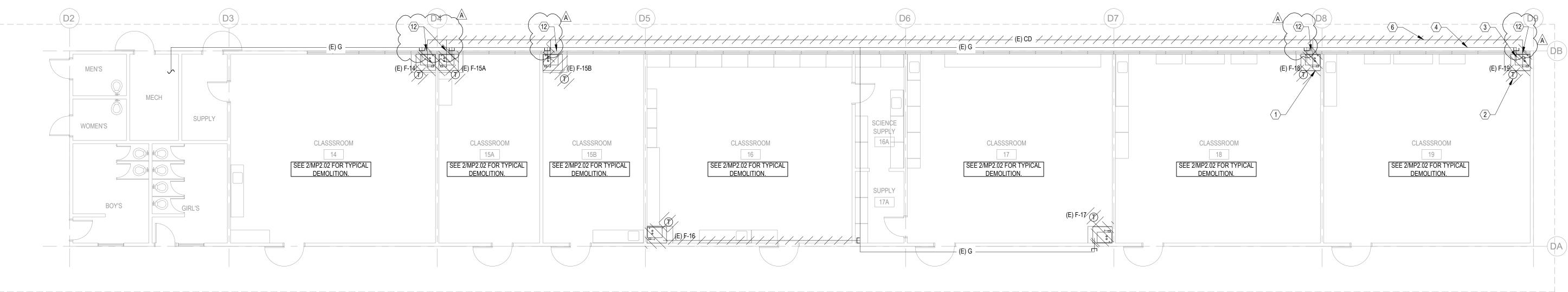
PUMP. 5. PROVIDE WITH CONDENSATE PUMP. 6. PROVIDE WITH 4" MERV- 13 FILTERS WITH FILTER ACCESS PANEL.

3. PROVIDE WITH SAMSUNG MIM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER. 4. PROVIDE WITH DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP5.01 FOR CONTROLS.

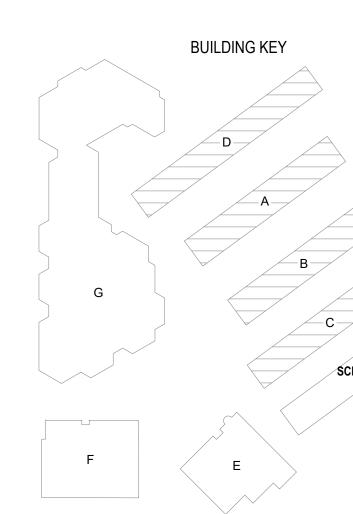
7. FAN COIL SHALL BE ADJUSTED TO OPERATE AT CONSTANT SPEED AT INDICATED CFM. 8. INDOOR UNIT POWERED BY OUTDOOR UNIT.

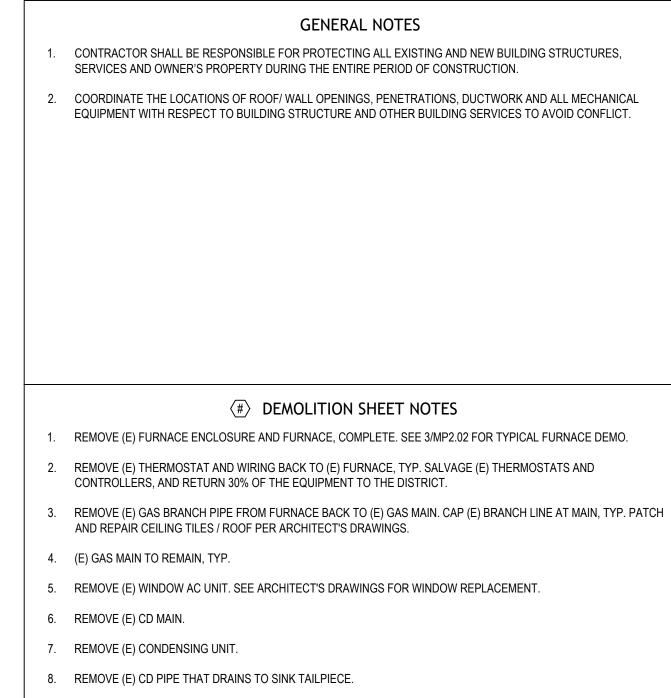










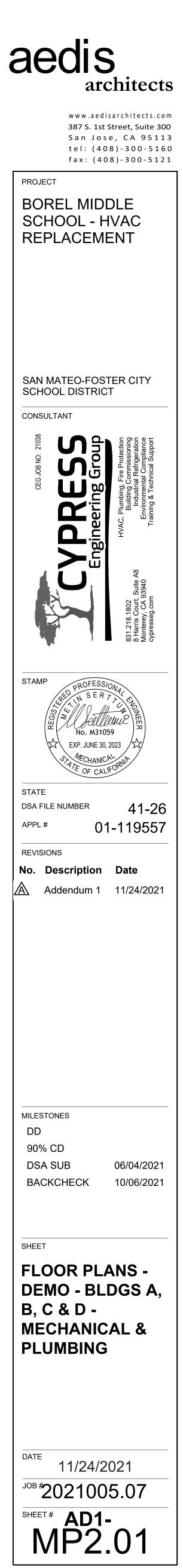


CEILING. PATCH AND REPAIR CEILING PER ARCHITECT'S DRAWINGS. 10. (E) DUCTWORK TO REMAIN.

11. REMOVE (E) CONDENSING UNIT AND REFRIGERANT PIPING.

(12. CAP BOTTOM LOUVER AT INTERIOR.

9. REMOVE (E) CONDENSATE DRAIN BRANCH PIPE BACK ABOVE CEILING. CAP AND ABANDON (E) CD MAIN ABOVE





Ν

- (24)-(18) (23) ᡣ M (22)-(21) (19) 5³⁄8" 5 (20) MP2.0 **FLOOR PLAN - ENCLOSURE**
- EQUIPMENT MOUNTING DETAIL REFERENCES SHOWN ON SCHEDULES ON SHEET MP0.02. PĂIŅTĂLL EXPOŠED DUCTWORK, SUPPORTS, ĂND ŘEĢISTERS TŎ MĂTCHĂDJĂCENT. A 6. SEE DETAIL 7/MP6.01 FOR PIPE SUPPORT ON ROOF. EQUIPMENT AND CONNECTIONS. CLEAN ALL (E) DUCTWORK AND REGISTERS PER SPECIFICATION 23 01 30. PAINT HEAT PUMPS ON ROOF TO MATCH (E) ROOF COLOR.

3.

4.

⁽5.

8.

9.

PĂINT ALL EXPOSED CONDENSĂTE PIPINĞ AT EXTERIOR TO MATCH ADJACENT. (10.)

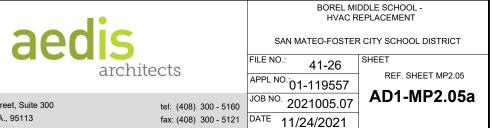


4 MP2.05/

SCALE: NONE



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GENERAL NOTES

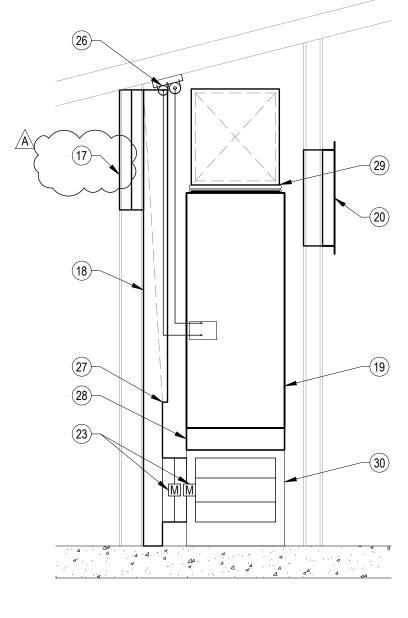
1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.

2. COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.

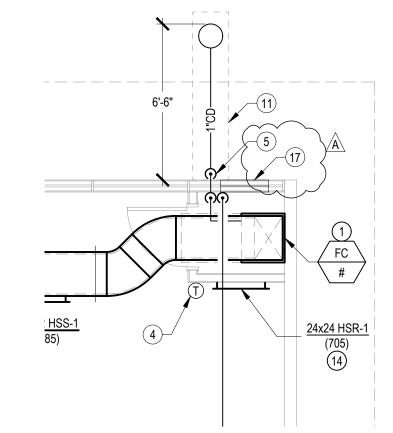
FOR CLARITY, ABANDONED CD PIPING AND (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.

7. CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WIRING AND ASSOCIATED CONDUITS FOR ALL NEW HVAC

/A\





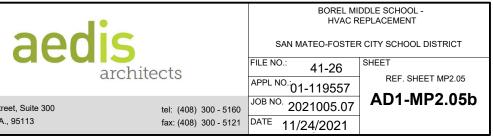




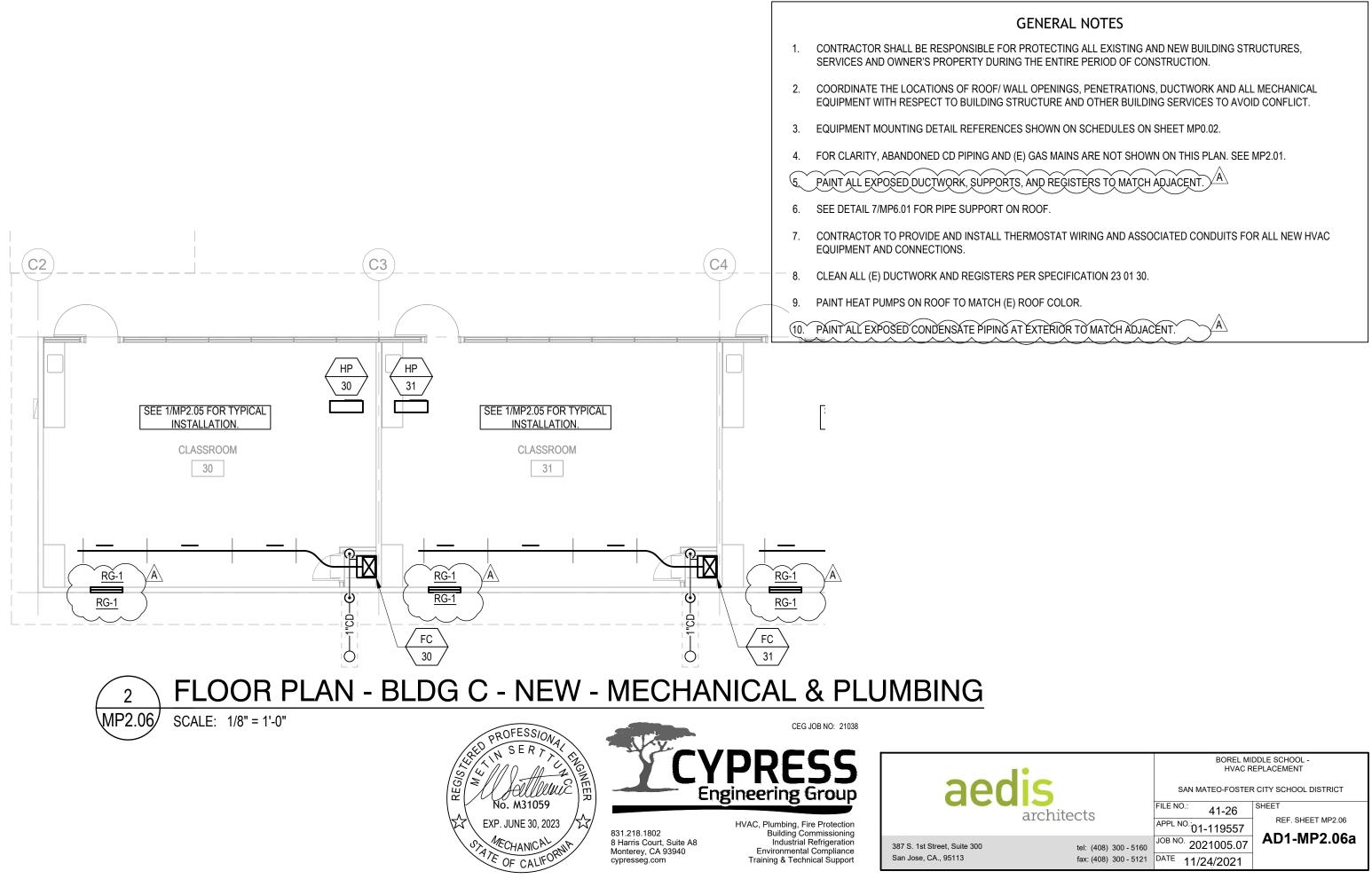


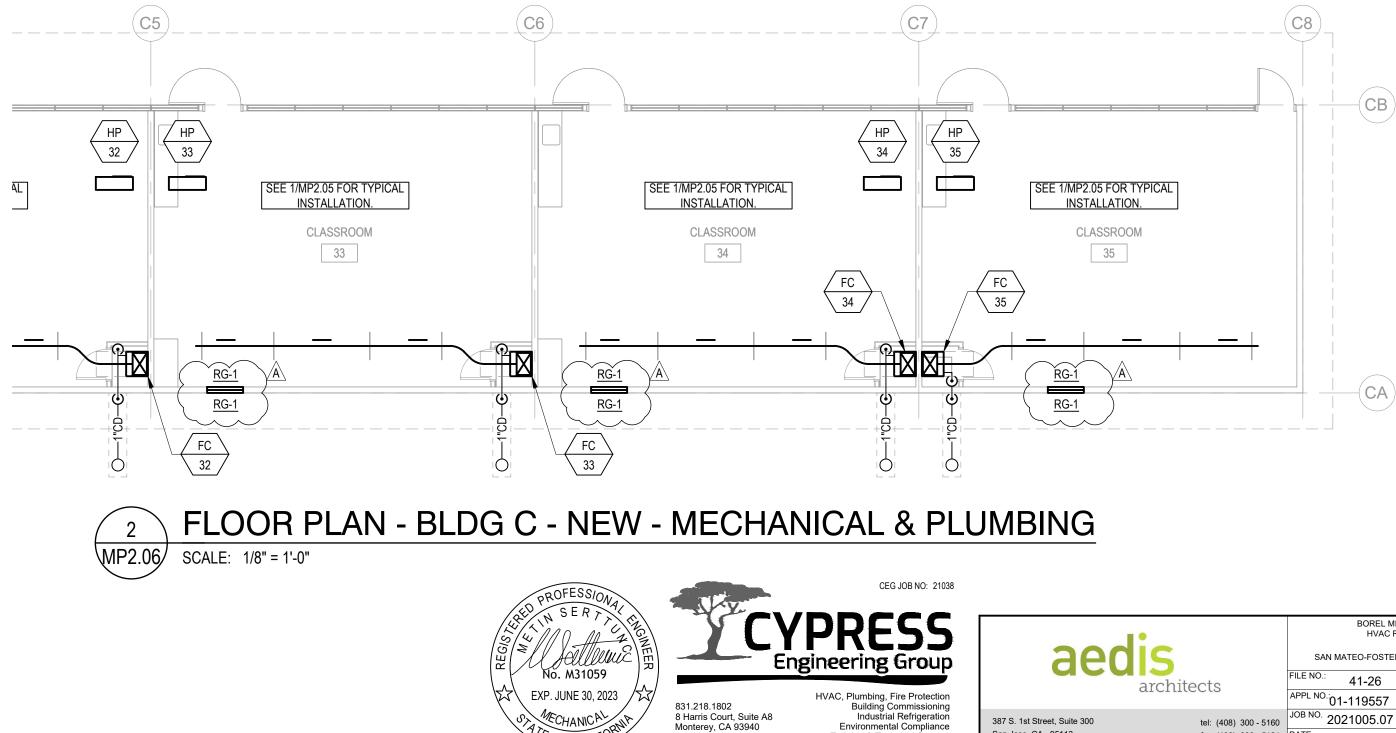


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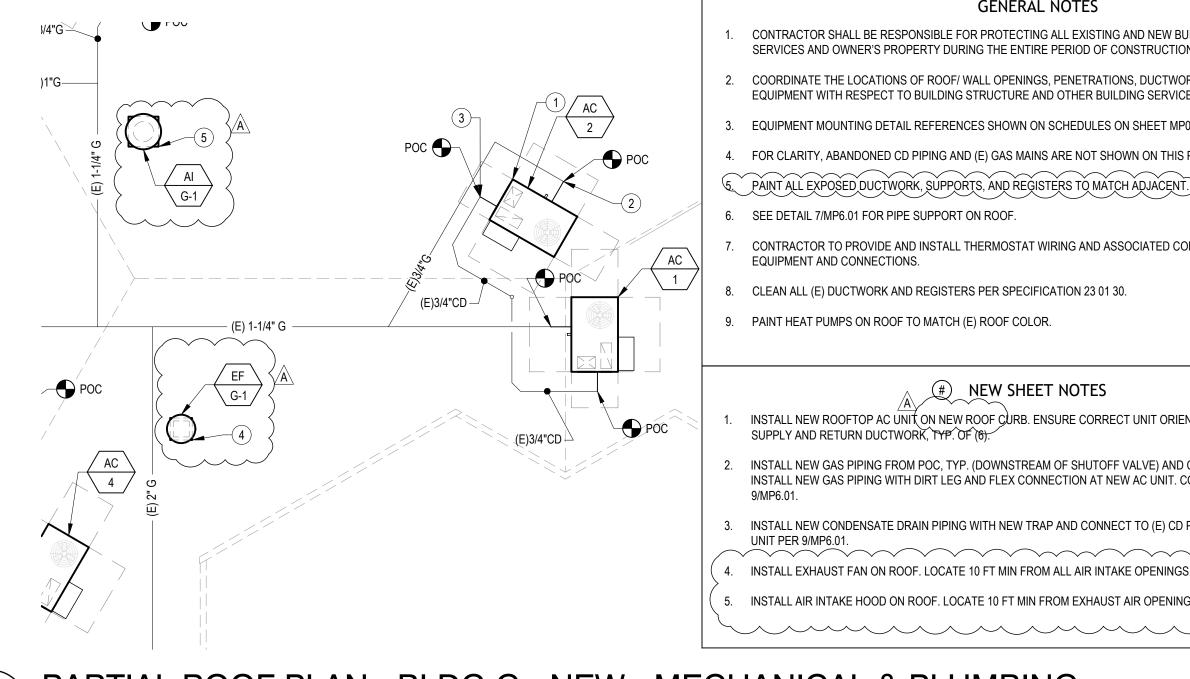
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ATE OF CALIFOR

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Training & Technical Support

12		DLE SCHOOL - PLACEMENT
lis	SAN MATEO-FOSTER	CITY SCHOOL DISTRICT
architects	FILE NO.: 41-26	SHEET
architeets	APPL NO.: 01-119557	REF. SHEET MP2.06
tel: (408) 300 - 5160	^{JOB NO.} 2021005.07	AD1-MP2.06b
fax: (408) 300 - 5121	DATE 11/24/2021	



PARTIAL ROOF PLAN - BLDG G - NEW - MECHANICAL & PLUMBING



MP2.07

SCALE: 1/8" = 1'-0"



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GENERAL NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES. SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.

COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.

EQUIPMENT MOUNTING DETAIL REFERENCES SHOWN ON SCHEDULES ON SHEET MP0.02.

FOR CLARITY, ABANDONED CD PIPING AND (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.

PĂIŅTĂĻL EXPOŠED DUCTWORK, SUPPORTS, ĂND ŘEĢISTĚRS TỐ MĂTCH ĂDJĂCENT. 🗡

CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WIRING AND ASSOCIATED CONDUITS FOR ALL NEW HVAC

NEW SHEET NOTES

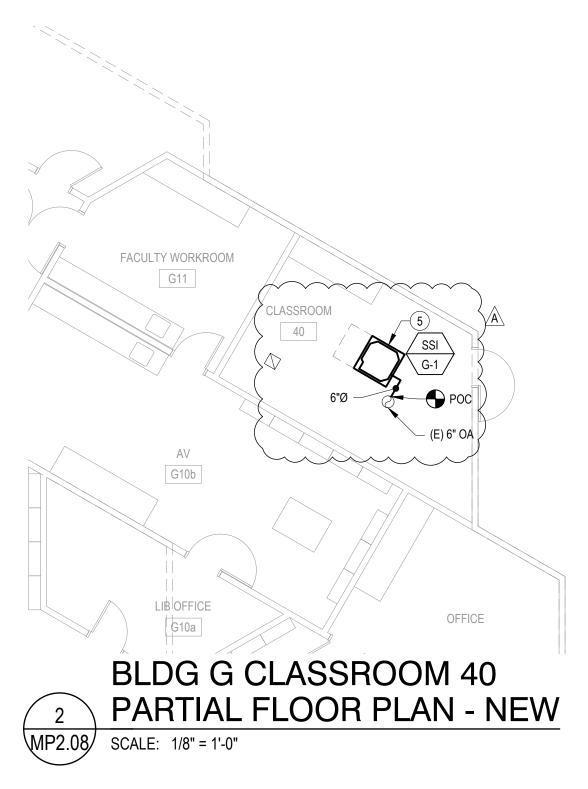
INSTALL NEW ROOFTOP AC UNIT ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E)

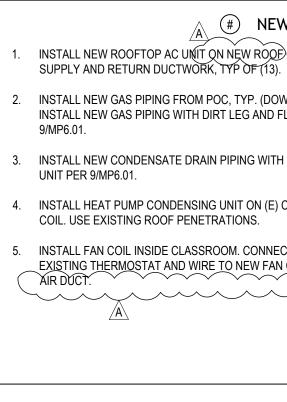
INSTALL NEW GAS PIPING FROM POC, TYP. (DOWNSTREAM OF SHUTOFF VALVE) AND CONNECT TO NEW AC UNIT. INSTALL NEW GAS PIPING WITH DIRT LEG AND FLEX CONNECTION AT NEW AC UNIT. CONNECT TO AC UNIT PER

INSTALL NEW CONDENSATE DRAIN PIPING WITH NEW TRAP AND CONNECT TO (E) CD PIPE, TYP. CONNECT TO AC

INSTALL AIR INTAKE HOOD ON ROOF. LOCATE 10 FT MIN FROM EXHAUST AIR OPENINGS

		DDLE SCHOOL - EPLACEMENT
IS	SAN MATEO-FOSTEF	CITY SCHOOL DISTRICT
architects	FILE NO.: 41-26	SHEET
arcritice to	APPL NO.:01-119557	REF. SHEET MP2.07
tel: (408) 300 - 5160	^{JOB NO.} 2021005.07	AD1-MP2.07
fax: (408) 300 - 5121	DATE 11/24/2021	







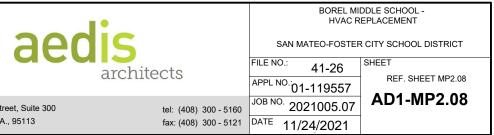
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YPRESS

Engineering Group

HVAC, Plumbing, Fire Protection



Building Commissioning Industrial Refrigeration Environmental Compliance Training & Technical Support San Jose, CA., 95113

NEW SHEET NOTES

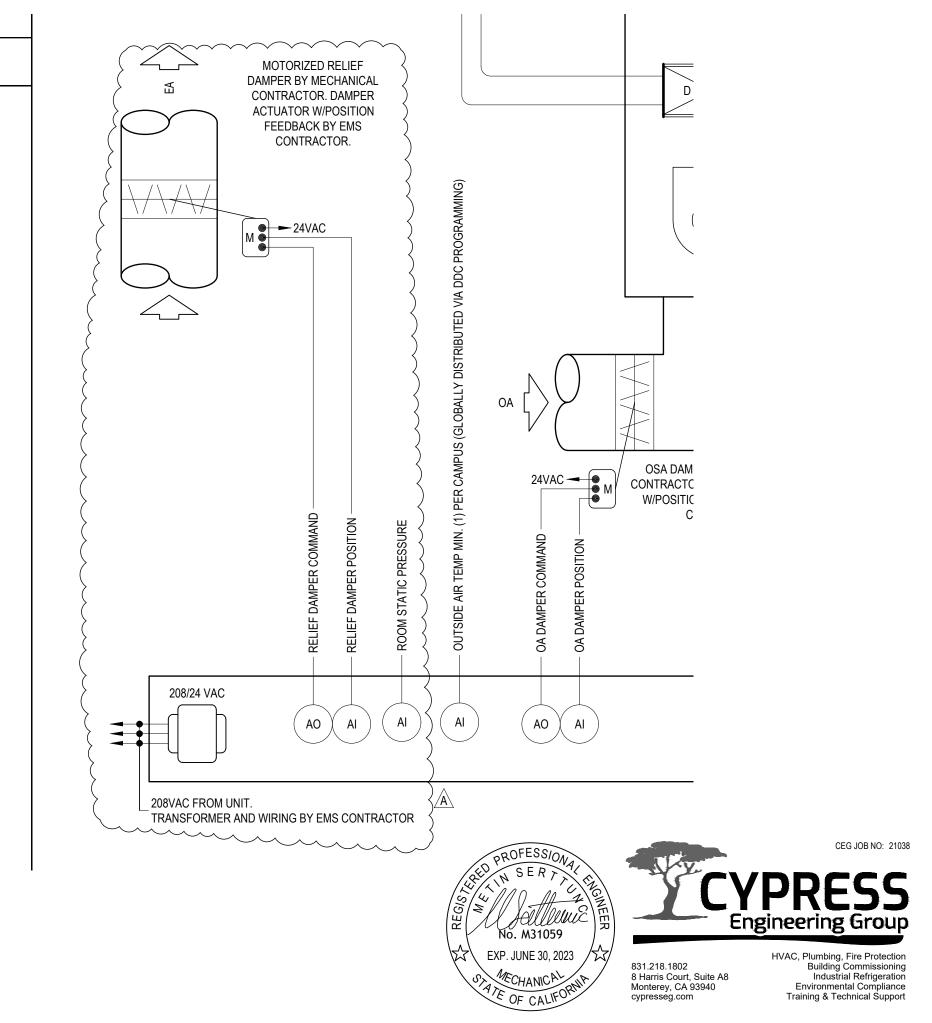
INSTALL NEW ROOFTOP AC UNIT ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E) SUPPLY AND RETURN DUCTWORK, TYP OF (13).

INSTALL NEW GAS PIPING FROM POC, TYP. (DOWNSTREAM OF SHUTOFF VALVE) AND CONNECT TO NEW AC UNIT. INSTALL NEW GAS PIPING WITH DIRT LEG AND FLEX CONNECTION AT NEW AC UNIT. CONNECT TO AC UNIT PER

INSTALL NEW CONDENSATE DRAIN PIPING WITH NEW TRAP AND CONNECT TO (E) CD PIPE, TYP. CONNECT TO AC

INSTALL HEAT PUMP CONDENSING UNIT ON (E) CURB. INSTALL REFRIGERANT PIPING FROM HEAT PUMP TO FAN

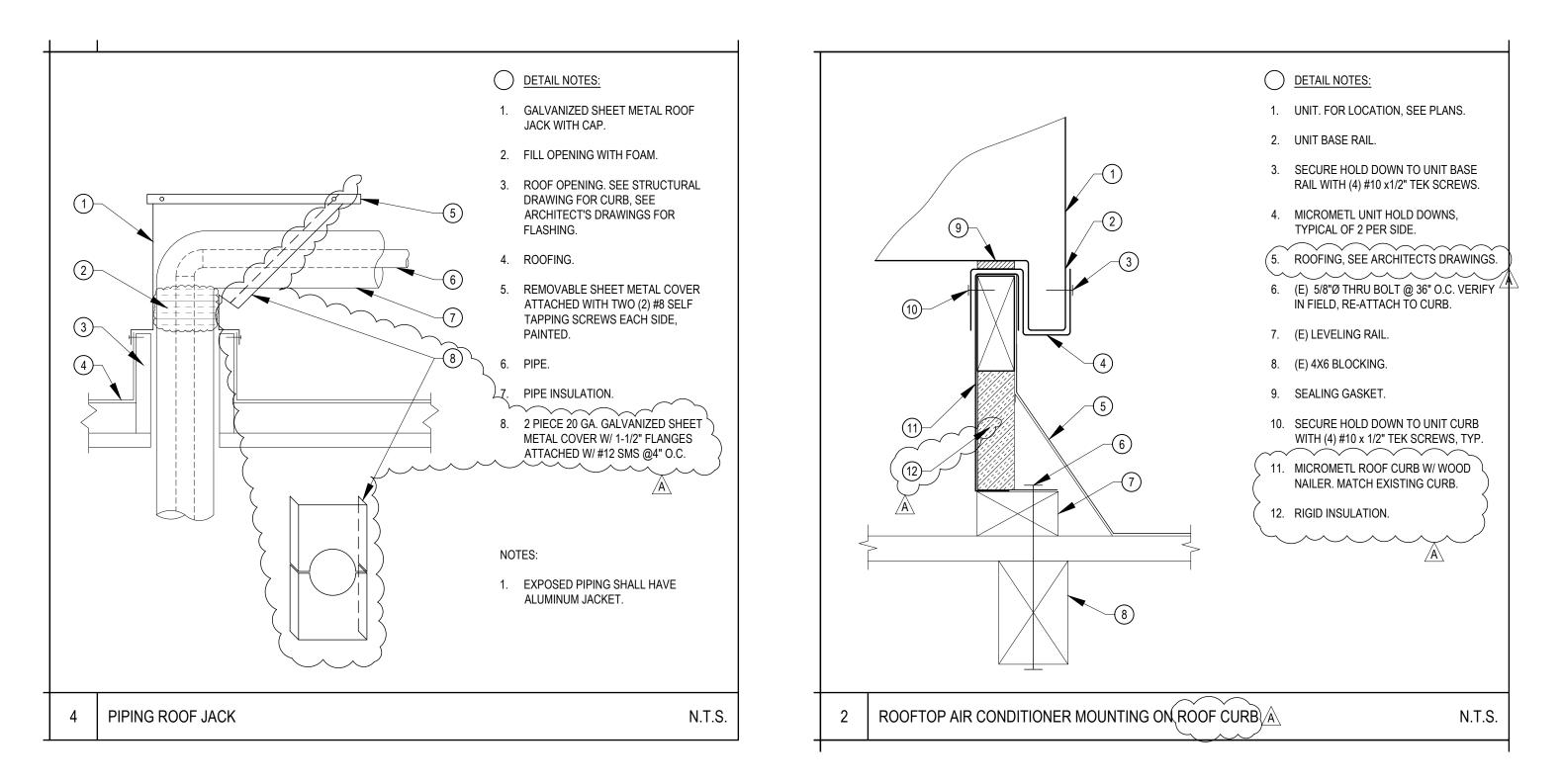
INSTALL FAN COIL INSIDE CLASSROOM. CONNECT TO (E) CD PIPING, INSTALL THERMOSTAT, IN-SAME LOCATION AS EXISTING THERMOSTAT AND WIRE TO NEW FAN COIL (INSTALL OUTSIDE AIR DUCT FROM SSI-G-1 TO (E) 6" OUTSIDE)



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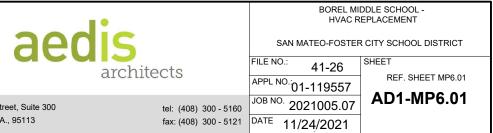
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		DDLE SCHOOL - EPLACEMENT
IS	SAN MATEO-FOSTER	R CITY SCHOOL DISTRICT
architects	FILE NO.: 41-26	SHEET
architeeto	APPL NO.:01-119557	REF. SHEET MP5.01
tel: (408) 300 - 5160	^{JOB NO.} 2021005.07	AD1-MP5.01
fax: (408) 300 - 5121	DATE 11/24/2021	



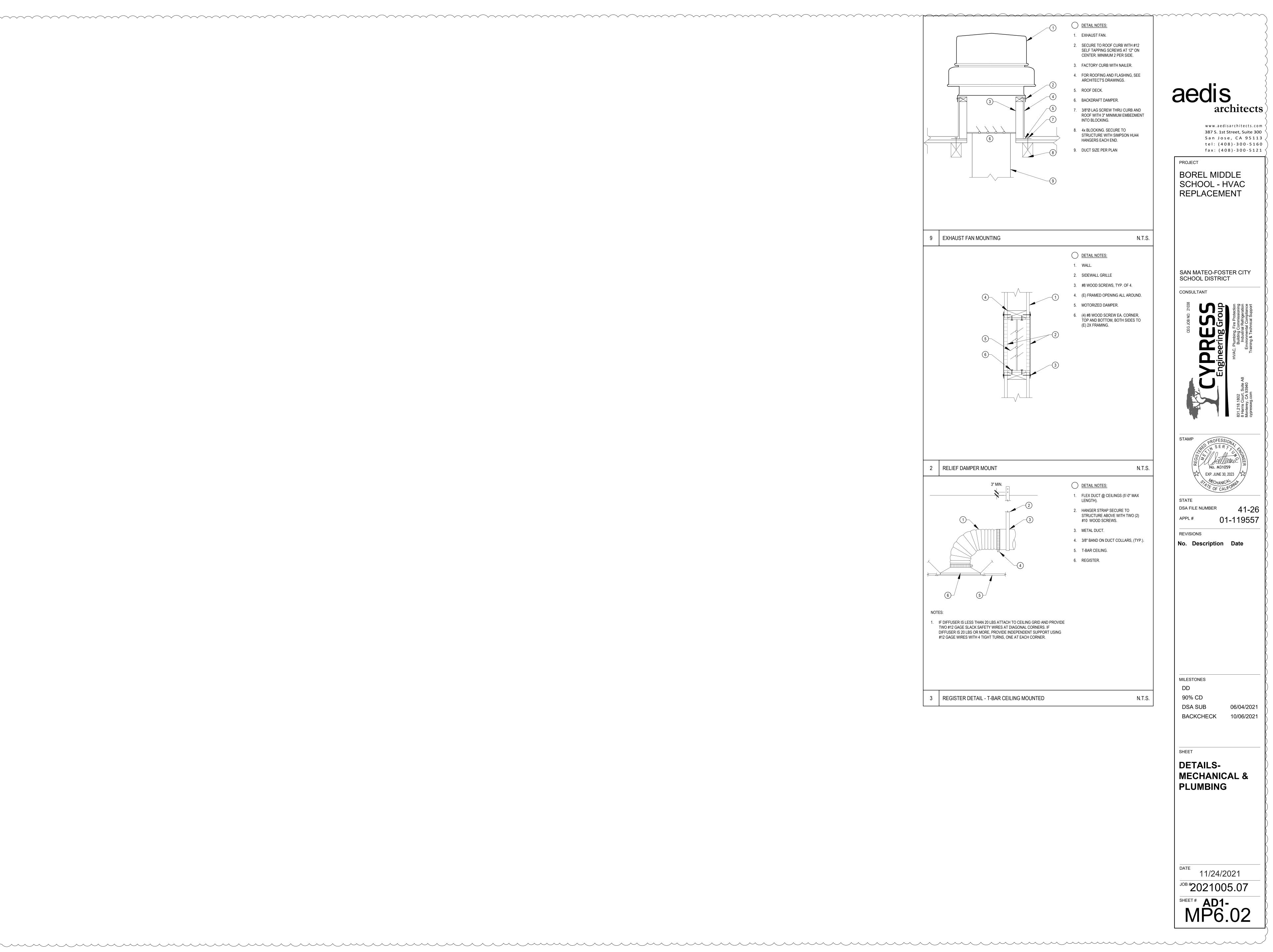


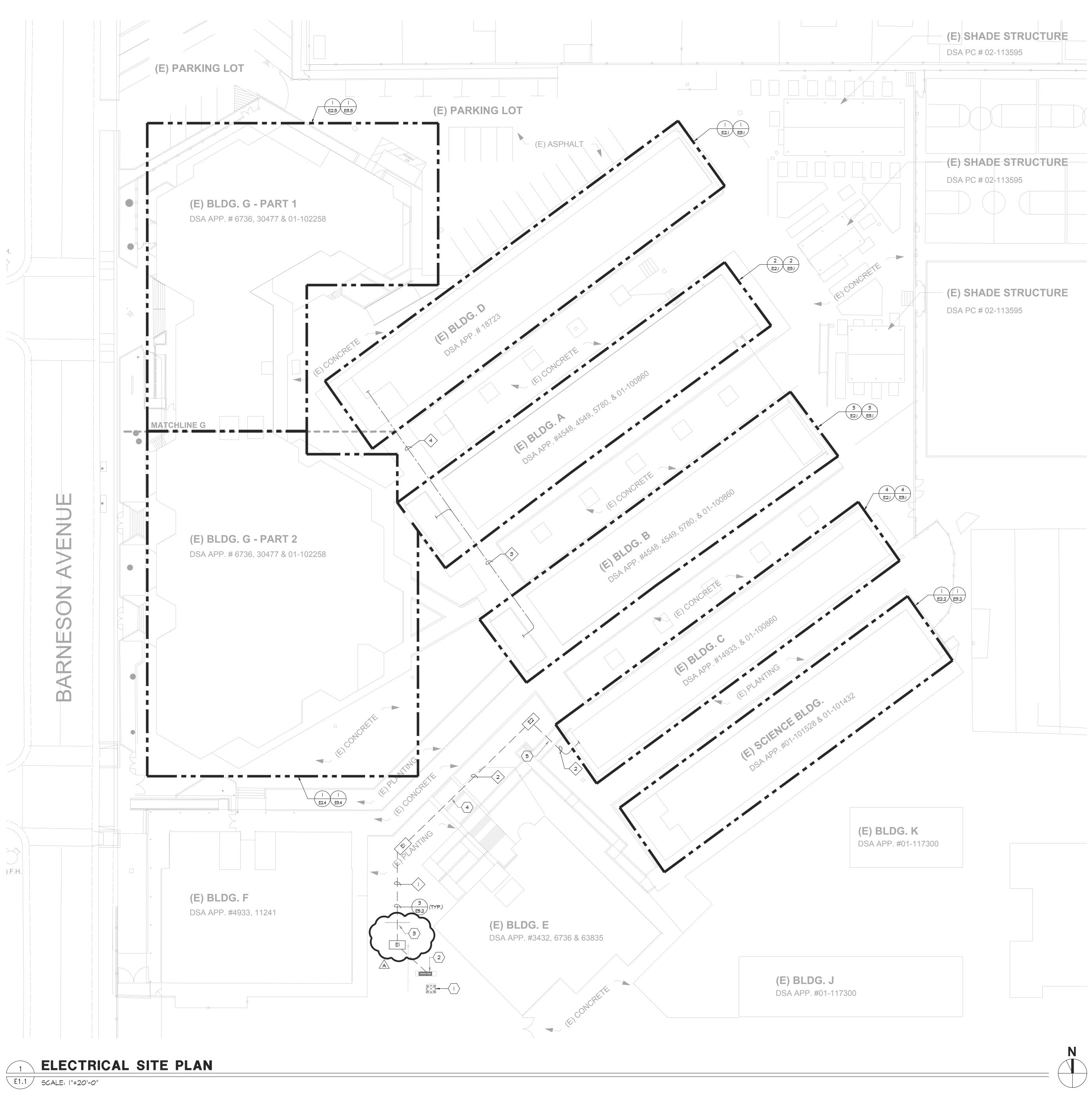
CEG JOB NO: 21038



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- I. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
- 3. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE NEW TRENCH WORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE EXISTING UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE EXISTING UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE NEW ELECTRICAL TRENCH WORK.
- 4. ALL ON SITE TRENCH SHALL BE INSTALLED PER 3/ E5.2.
- 5. SEE DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- 6. SEE NEW SINGLE LINE DIAGRAM FOR FEEDER CABLE AND CONDUIT REQUIREMENTS.

SHEET NOTES:

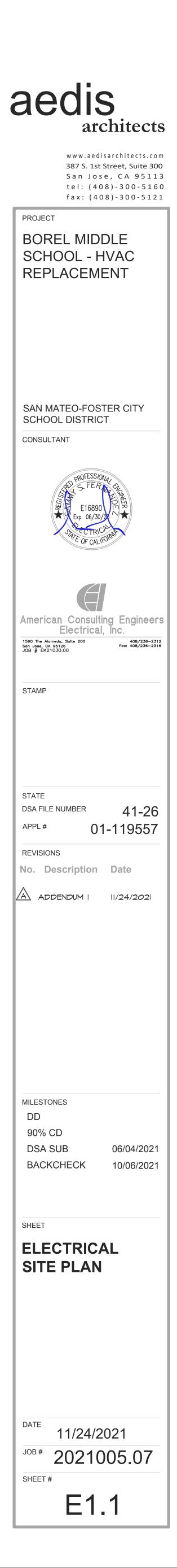
- | EXISTING PG&E TRANSFORMER TO REMAIN.
- 2 EXISTING MAIN SWITCHBOARD. STUB NEW CONDUIT INTO EXISTING SWITCHBOARD AS REQUIRED.
- 3 EXISTING RETAINING WALL AT THIS LOCATION. ROUTE NEW CONDUIT AS REQUIRED.
- $\langle 4 \rangle$ EXISTING STAIRS AT THIS LOCATION. ROUTE NEW CONDULT AS REQUIRED.
- $\left< 5 \right>$ EXISTING RAMP AT THIS LOCATION. ROUTE NEW CONDUIT AS REQUIRED.

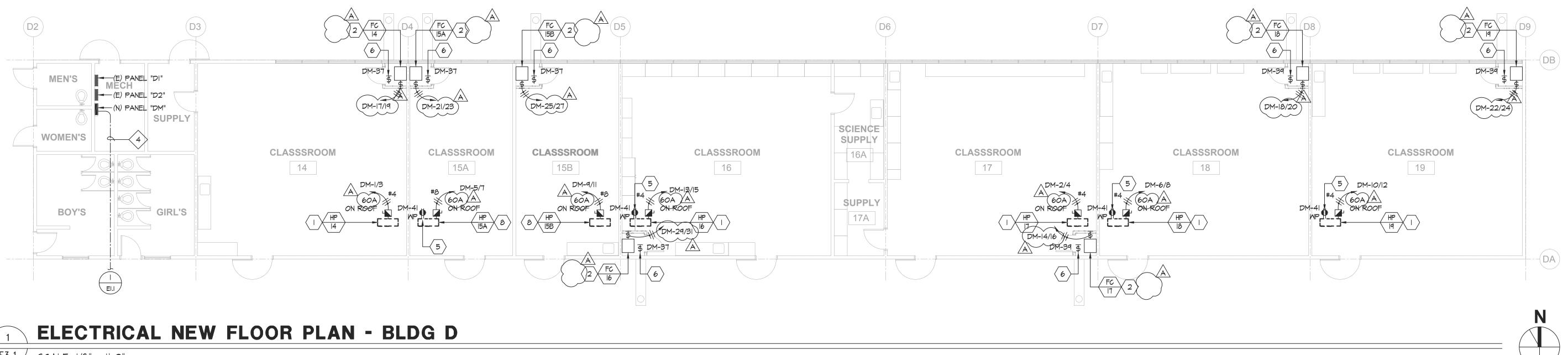
CONDUIT SCHEDULE:

(N) (2) 2"C - PNL 'CM' (N) (2) 4"C - FUTURE BLDG 'F' 2 (N) (2) 2"C - PNL 'CM' (N) (2) 3"C - PNL 'AM' (N) (2) 3"C - PNL 'DM' (N) (2) 3"C - PNL 'DM'

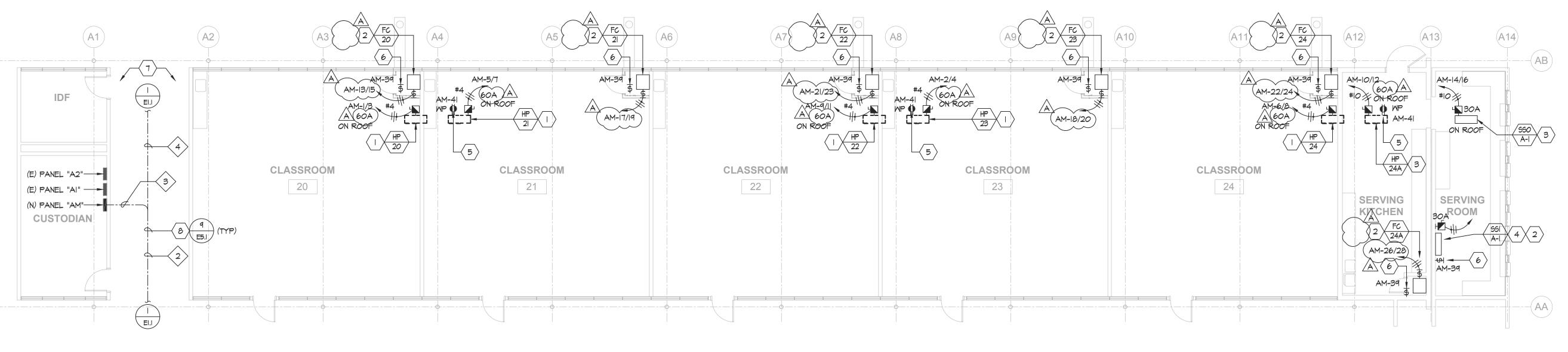
PULLBOX SCHEDULE:

- NEW B3048 ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'POWER'.
- E2 NEW B2436 ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'POWER'.

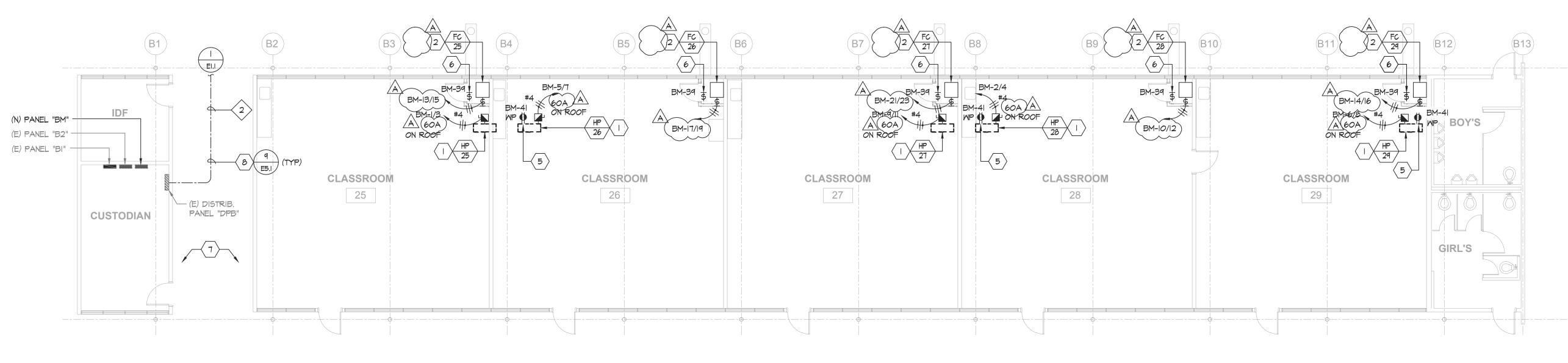


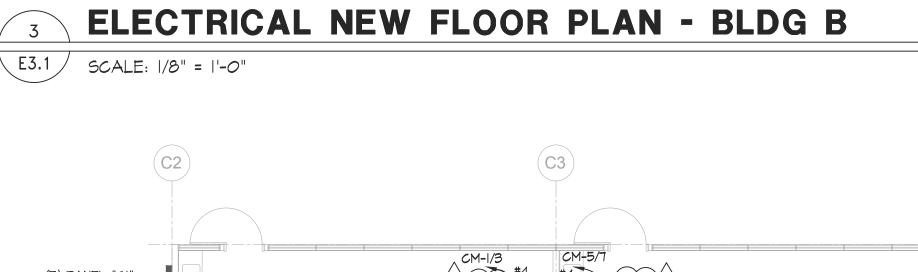


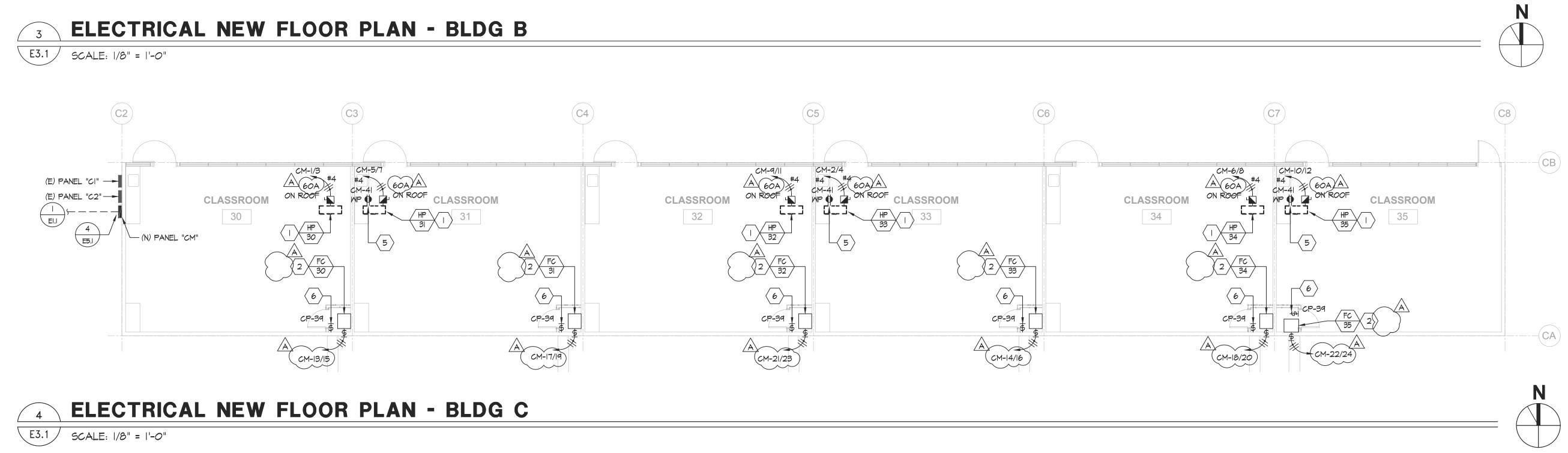
















- I. ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE PAINTED.
- 2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
- 3. SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
- 4. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUREMENTS.
- 5. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE $600\vee$ RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.

PROVIDE CONDUIT ROOF PENETRATIONS REQUIRED. COORDINATE ROOF PENETRATION LOCATIONS WITH MECHANICAL'S PIPING ROOF PENETRATIONS. ROOF PENETRATION SHALL BE PER DETAIL 4/MP6.01. ······

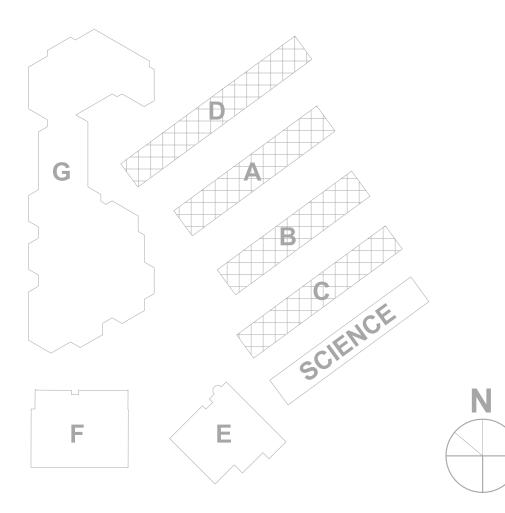
SHEET NOTES:

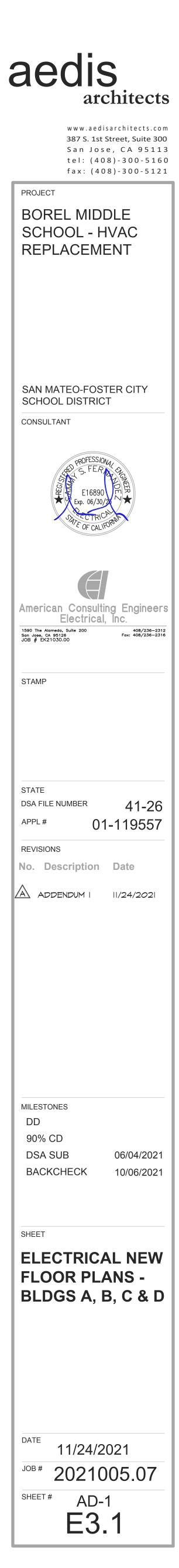
- \langle I \rangle NEW 60A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- (2) NEW 30A-2P, NEMA-(, MOTOR-RATED) ISCONNECT SWITCH FOR MECHANICAL
- \langle 3 \rangle NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- 4 INDOOR UNIT IS POWER BY THE OUTDOOR UNIT. ROUTE HOMERUN CIRCUIT TO ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULE MP0.02 FOR ADDITIONAL REQUIREMENTS.
- 5 PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON A WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC WPIOIMXD "BOSS".
- 6 PROVIDE MOTOR RATED SWITCH AND 120V POWER FOR CONDENSATION PUMP.
- $\langle 7 \rangle$ mount conduit adjacent to chase and route across the Hallway.
- $\langle s \rangle$ NEW 60A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- $\langle \mathsf{q} \rangle$ route conduit below canopy.

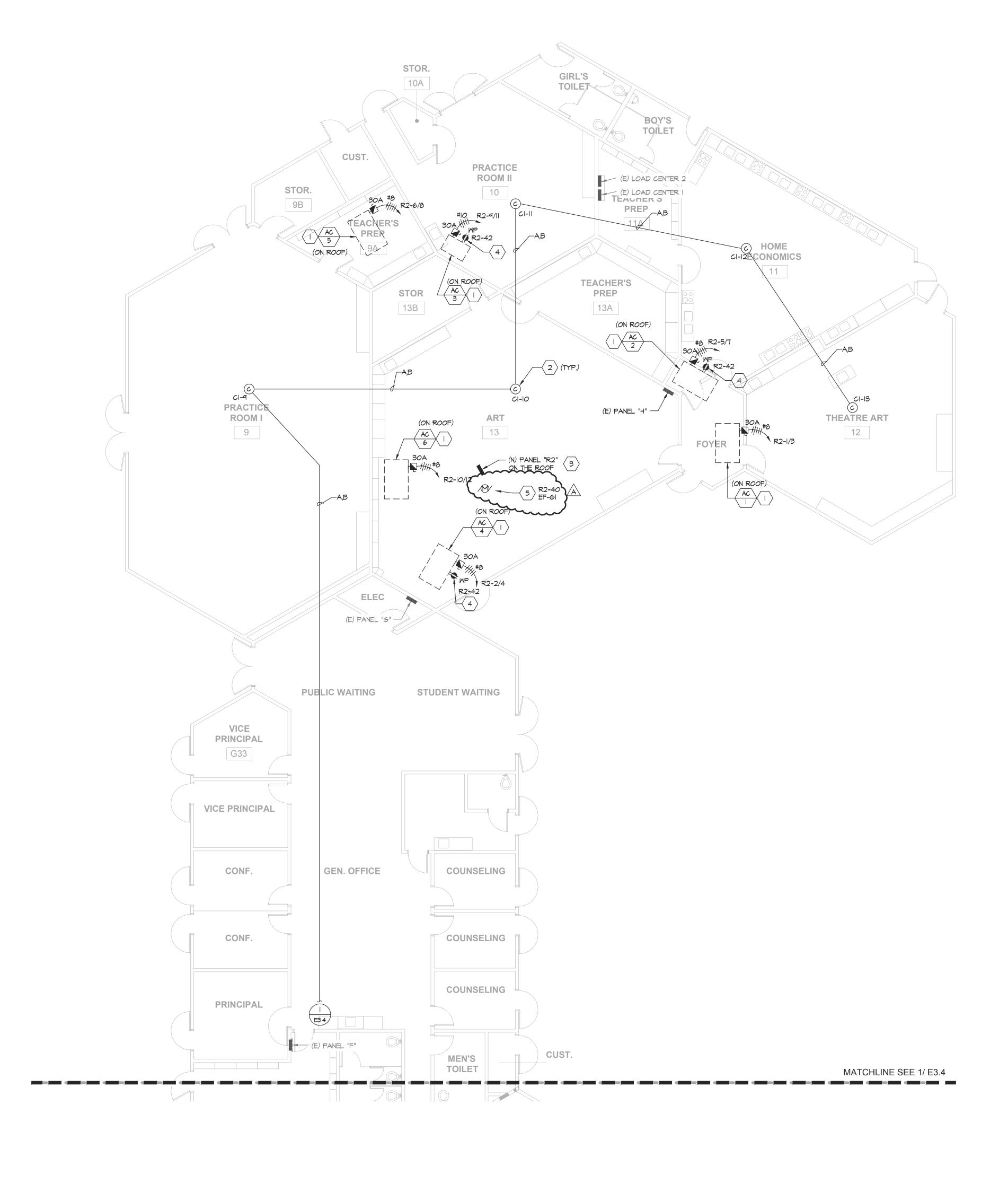
CONDUIT SCHEDULE:

- (N) (2) 2"C PNL 'CM'
- 2 (N) (2) 3"C PNL 'AM' (N) (2) 3"C PNL 'DM'
- (N) (2) 3"C PNL 'AM'
- (N) (2) 3"C PNL 'DM'

BUILDING KEY





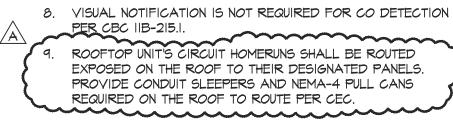






PAINTED.

- I. ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE
- 2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
- 3. SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
- 4. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUREMENTS.
- 5. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.
- 6. SEE DETAIL 2/E5.I FOR ROOF CONDUIT SUPPORT DETAIL.
- 7. SEE DETAIL 3/E5.1 FOR NEMA-4 PULL BOX ON ROOF DETAIL.



SHEET NOTES:

- \langle I \rangle NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- 2 NEW CARBON MONOXIDE DETECTOR. ROUTE NEW SLC CONNECTION BACK TO EXISTING FIRE ALARM CONTROL PANEL NOTIFIER NFS2-3030 AS REQUIRED.
- 3 INSTALL NEW PANEL IN THE EXISTING LOCATION ON THE EXISTING ROOF MOUNTED SUPPORTS. NEW PANEL IS THE SAME SIZE AND WEIGHT AS THE PREVIOUS PANEL. CONNECT NEW FEEDERS AND BRANCH CIRCUITS TO PANEL.

4 PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON A WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER

SHALL BE INTERMATIC WPIOIMXD "BOSS". 5 \rangle provide NEMA-3R, 120V motor rated switch for rooftop exhaust -/ FAN. ROUTE 120V CIRCUIT TO THE PANEL AND CIRCUIT INDICATED. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

CABLE SCHEDULE:

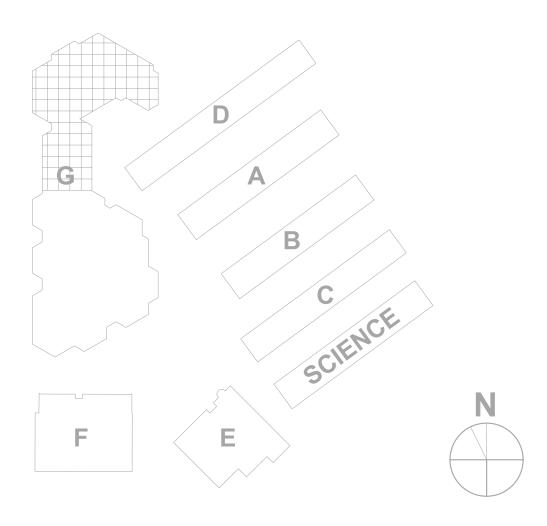
A - (1) #14 UNSHIELDED TWISTED PAIR FOR SIGNALING LINE CIRCUITS. B - (2) #12 FOR 24V POWER (BEAM SMOKE DETECTOR)

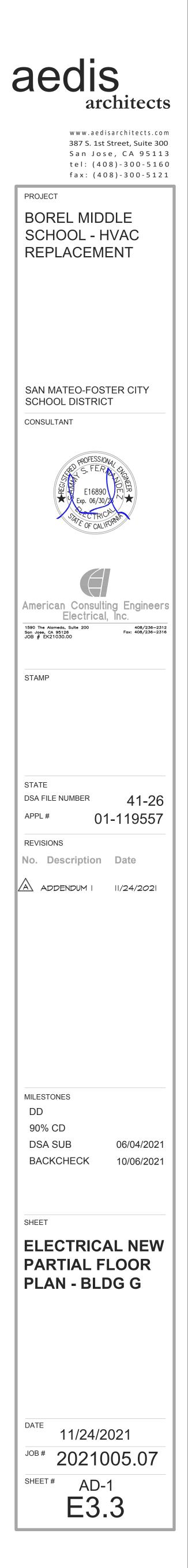
EQUIPMENT SCHEDULE:

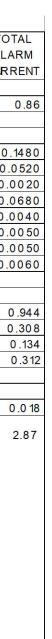
Ø	FIRE ALARM: (N) CARBON MONOXIDE DETECTOR W/ BASE MODEL: NOTIFIER FSCO-951/B2005 CSFM: 5278-0028:511/7300-1653:109
APS	FIRE ALARM: (N) AUXILIARY POWER SUPPLY MODEL: NOTIFIER FCPS 2458 CSFM: 7315-0028:225

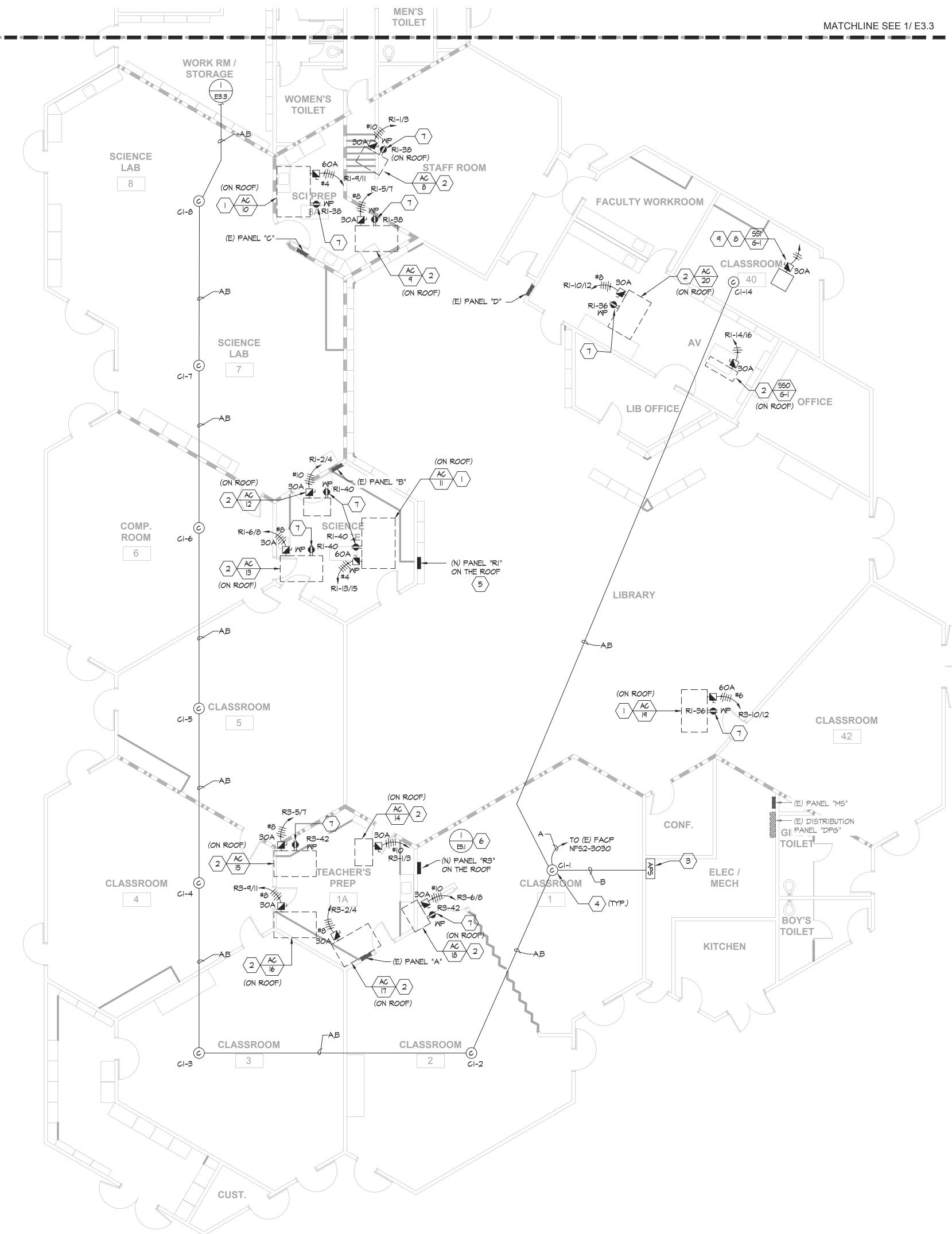
QUANTITY	MODEL #	E ALARM CONTROL PANEL NFS 320 - BATTERY C DEVICE	SUPV.	TOTAL	ALARM	TOT
			CURRENT	SUPV.	ALARM	ALA
			PER	CURRENT	CURRENT	CURR
		FIRE ALARM CONTROL PANEL				
1	CPU-NFS 320	FACP CENTRAL PROCESSING UNIT	0.6600	0.66	0.8600	(
		(E) SLC DEVICES		1		
37		SMOKE DETECTOR/BASE	0.0000	0.0000	0.0040	
13		HEAT DETECTOR/ BASE	0.0000	0.0000	0.0040	0.0
2		DUCT DETECTOR/DNR HOUSING	0.0000	0.0000	0.0010	0.0
68		PULL STATION	0.0000	0.0000	0.0010	0.0
4		RELAY MODULE	0.0010	0.0000	0.0010	0.0
5		MONITOR MODULE	0.0010	0.0000	0.0010	0.0
5		CONTROL MODULE	0.0010	0.0000	0.0010	0.0
6		CO DETECTOR	0.0000	0.0000	0.0010	0.0
		(E) NOTIFICATION DEVICES				
4		HORN/ STROBE 75CD - 0.50 WATT	0.00	0.00	0.236	
2		HORN/STROBE 30CD - 0.50 WATT	0.00	0.00	0.154	0.
1		HORN/STROBE 15CD - 0.50 WATT	0.00	0.00	0.134	
4		STROBE 15CD - 0.25 WATT	0.00	0.00	0.078	0
		(N) SLC DEVICES				
12	FSCO-951		0.0002	0.0008	0.0045	0
12	1000-001	GARBON MONOXIDE	Max. Supv.		Max. Alarm	
			Current		Current	2
		Maximum Supervisory Current:	0.66			
		Standby Period 24 hour:	24			
		Total Supervisory Reserve:	15.86			
		Total Supervisory Reserve.	10.00	(~)		
		Maximum Alarm Current:	2.87			
		Alarm Period (15 minute)	0.249			
		Total Alarm Reserve:	0.71	(B)		
		Total Reserve Current: (A + B)	16.57			
		Safety Margin (20%)	1.2			
		Salety Margin (20%) Total Ampere Hours Required:	1.2			
			13.03			

UILDING KEY











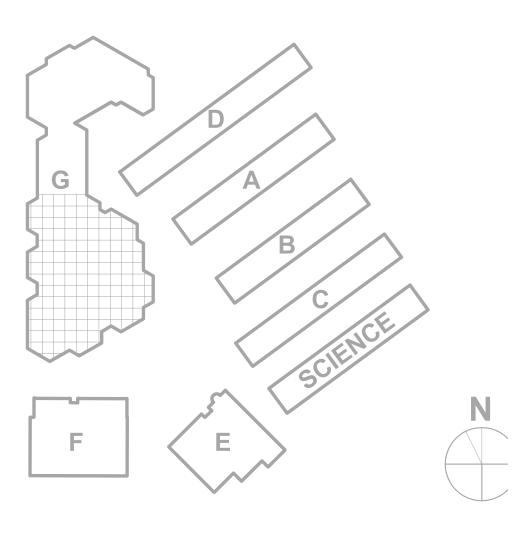
- I. ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE PAINTED.
- 2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
- 3. SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
- 4. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUREMENTS.
- 5. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.
- 6. SEE DETAIL 2/E5.1 FOR ROOF CONDUIT SUPPORT DETAIL.
- 7. SEE DETAIL 3/E5.I FOR NEMA-4 PULL BOX ON ROOF DETAIL.
- 8. VISUAL NOTIFICATION IS NOT REQUIRED FOR CO DETECTION PER CBC IIB-215.1.

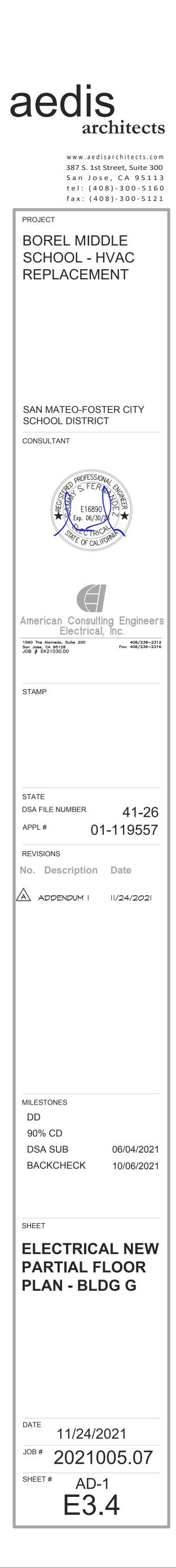


SHEET NOTES:

- \langle I \rangle NEW 60A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT. $\langle 2 \rangle$ NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT. \langle 3 \rangle NEW AUXILIARY 24V POWER SUPPLY FOR CARBON MONOXIDE DETECTORS. 4 NEW CARBON MONOXIDE DETECTOR. ROUTE NEW SLC CONNECTION BACK TO EXISTING FIRE ALARM CONTROL PANEL NOTIFIER NFS2-3030 AS REQUIRED. 5 INSTALL NEW PANEL IN THE EXISTING LOCATION ON THE EXISTING ROOF MOUNTED SUPPORTS. NEW PANEL IS THE SAME SIZE AND WEIGHT AS THE PREVIOUS PANEL. CONNECT NEW FEEDERS AND BRANCH CIRCUITS TO PANEL. 6 INSTALL NEW PANEL ON NEW ROOF MOUNTED SUPPORTS. CONNECT NEW FEEDERS AND BRANCH CIRCUITS TO PANEL. 7 PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON A WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC WPIOIMXD "BOSS". $\langle s \rangle$ NEW 30A-2P, NEMA-I, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- (9) INDOOR UNIT IS POWER BY THE OUTDOOR UNIT. ROUTE HOMERUN CIRCUIT TO ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULE MP0.02 FOR ADDITIONAL REQUIREMENTS.

BUILDING KEY





PANEL NAME:	AM															1: PNL. DP-1
VOLTAGE:	208/120V	_													MAIN C/E	3: 400A-3P
PHASE	3	-													BUSSING	: 400 AMP
WIRE:	4	-													MIN. AIC	22,000
TY PE:	NEMA 1	_													SUB-FEED C/E	3:
MOUNTING:	SURFACE														FEED THRU LUGS	YES
		LOAD.	,	,		CB	CKT	PH	СКТ			TY PE (K)				
CIRCUIT DESCRIPTION	\sim	-LIG	REC	MTR	NCL	-AMR/P_	#		#	AMP/P	LIG	REC	_MTR_		CIRCUIT DESCRIPTION	$\sim\sim\sim\sim$
(N) HEAT PUMP 20 - CLASSROOM 20					3.74	50A	$\backslash 1$	Α	2(50A				3.74	(N) HEAT PUMP 23 - CLASSROOM 23	
					3.74	2P	1/3	В	4	2P				3.74		
(N) HEAT PUMP 21 - CLASSROOM 21					3.74	50A)5	С	6	50A				3.74	(N) HEAT PUMP 24 - CLASSROOM 24	
					3.74	2P	7	Α	8	- 2P				3.74		
(N) HEAT PUMP 22 - CLASSROOM 22					3.74	50A	3	В	10	25A				3.74	(N) HEAT PUMP 24A - KITCHEN	
					3.74	2P	' {1	С	12	2P				3.74		
(N) FAN COIL 20 - CLASSROOM 20					0.89	15A	13	А	14	30A					(N) SSO-A-1 / SSI-A-1 - SERVING ROOM	Л
					0.89	2P	15	В	16	2P				1.87		
(N) FAN COIL 21 - CLASSROOM 21					0.89	15A	17	С	18	15A				0.89	(N) FAN COIL 23 - CLASSROOM 23	
					0.89	2P	19	Α	20	2P				0.89		
(N) FAN COIL 22 - CLASSROOM 22					0.89	15A	21	В	22>	15A					(N) FAN COIL 24 - CLASSROOM 24	
					0.89	2P	23	С	24	2P				0.89		
SPARE		\vdash		\vdash	\bigwedge	20A/1P	25	Α	26	15A				0.89	(N) FAN COIL 24A - KITCHEN	
SPARE						20A/1P	27	В	28	2P				0.89		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SPARE						20A/1P	29	С	30	20A/1P					SPARE	
SPARE						20A/1P	31	Α	32	20A/1P					SPARE	
SPARE						20A/1P	33	В	34	20A/1P					SPARE	
SPARE						20A/1P	35	С	36	20A/1P					SPARE	
SPARE						20A/1P	37	Α	38	225A					(E) PNL. 'A1'	
(N) MOTOR RATED SWITCH FOR COND F	PUMP			0.72		20A/1P	39	В	40							
(N) GFCI WP REC MOUNT ON ROOF - BLI	DG A		0.54			20A/1P	41	С	42	3P						
		0	0.5	0.7	27.8]					0	0	0	31.6]	
LOAD SUMMARY	CONNECTED KVA	DEMAN	ND FACT	OR	DEMAN	ID KVA	1					Yes/No			KVA PHASE A (CONNECTED)	20.4
(LTG) LIGHTING X 125%	0	1	1.25			0.0	1			FULL RA	TEDAIC				KVA PHASE B (CONNECTED)	21.1
(REC) RECEPTS PER 220.44;	0.5	1	1.00			0.5	1			SERIES RA					KVA PHASE C (CONNECTED)	19.1
10KVA x 100% + REMAINDER x 50%	0	1	0.50		1	0.0	1					N			SUB FEED CONNECTED LOAD	
(MTR) LARGEST MOTOR X 125%	0.7		1.25			0.9	1			COPPER B						1
+ REMAINING MOTORS x 100%	0		1.00			0.0	1		A	LUMINUM B					TOTAL DEMAND KVA	60.8
(NCL) NON CONTINOUS LOAD × 100%	59.4		1.00		1	59.4	1								TOTAL LOAD AMPERES	169.0

PANEL NAME:	DM	_													FED FROM: PNL. DP-1	
VOLTAGE:	208/120V	_													MAIN C/B: 400A-3P	
PHASE:	3	_													BUSSING: 400 AMP	
WIRE:	4	_													MIN. AIC: 22,000	
TYPE:	NEMA 1														SUB-FEED C/B:	
MOUNTING:	SURFACE														FEED THRU LUGS: YES	
			TYPE (K	,		CB	1	PH	CKT) TYPE (I	(VA)			
CIRCUIT DESCRIPTION	\frown		REC		\leftarrow	AMP/P	#		#	AMPLE					CIRCUIT DESCRIPTION	\sim
(N) HEAT PUMP 14 - CLASSROOM 14					3.74	50A		Α	2(50Å					(N) HEAT PUMP 17 - CLASSROOM 17	
					3.74	2P	3	В	4	2	2P			3.74		
(N) HEAT PUMP 15A - CLASSROOM 15A	L.				3.74	50A	15	С	6	50A				3.74	(N) HEAT PUMP 18 - CLASSROOM 18	
					3.74	2P	$\overline{\gamma}$	Α	8	2	2P			3.74		
(N) HEAT PUMP 15B - CLASSROOM 15E					3.74	50A	4	В	10	50A				3.74	(N) HEAT PUMP 19 - CLASSROOM 19	
					3.74	2P	11	С	12	2	2P			3.74		
(N) HEAT PUMP 16 - CLASSROOM 16					3.74	50A	13	Α	14	15A				0.89	(N) FAN COIL 17 - CLASSROOM 17	
					3.74	2P	15	В	16	2	2P			0.89		-
(N) FAN COIL 14 - CLASSROOM 14					0.89	15A	\$17	С	18>	15A				0.89	(N) FAN COIL 18 - CLASSROOM 18	
					0.89	2P	79	Α	20>	2	2P			0.89		
(N) FAN COIL 15A - CLASSROOM 15A					0.89	15A	21	В	22	15A				0.89	(N) FAN COIL 19 - CLASSROOM 19	
					0.89	2P	23	С	24	2	2P			0.89		
(N) FAN COIL 15B - CLASSROOM 15B					0.89	15A	25	А	26	20A/1F	$\gamma \sim$	\uparrow	\sim	$\overline{\gamma}$	SPARE	\sim
					0.89	2P	27	В	28	20A/1F	>				SPARE	
(N) FAN COIL 16 - CLASSROOM 16					0.89	15A	29	С	30	20A/1F	>				SPARE	
					0.89	2P	<u>}</u> 81	Α	32	20A/1F	>				SPARE	
SPARE				$\overline{}$	$\overline{)}$	20A/1P	33	В	34	20A/1F	>				SPARE	
SPARE						20A/1P	35	С	36	20A/1F	>				SPARE	
(N) MOTOR RATED SWITCH FOR COND	PUMP - BLDG D			0.48		20A/1P	37	А	38	225A					(E) PNL. 'D1'	
				0.36		20A/1P	39	В	40							
(N) WEATHERPROOF GFCI RECEPTACLE	- BLDG D		0.72			20A/1P	41	С	42] :	3P					
		0	0.7	0.8	37.1						0	0	0	27.8		
LOAD SUMMARY	CONNECTED KVA	DEMAN	ID FACT	OR	DEMAN	ID KVA	1	ļ				Yes/N	D		KVA PHASE A (CONNECTED) 23.7	7
(LTG) LIGHTING X 125%	0		1.25			0.0	1			FULL R	A TED A				KVA PHASE B (CONNECTED) 22.7	
(REC) RECEPTS PER 220.44;	0.7		1.00			0.7	1			SERIES R					KVA PHASE C (CONNECTED) 20.2	
10KVA x 100% + REMAINDER x 50%	0		0.50			0.0	1					D N			SUB FEED CONNECTED LOAD	
(MTR) LARGEST MOTOR X 125%	0.5		1.25			0.6	1			COPPER						
+ REMAINING MOTORS x 100%	0.4		1.00			0.4	1		A	LUMINUM					TOTAL DEMAND KVA 66.6	3
(NCL) NON CONTINOUS LOAD x 100%	64.9	+	1.00		<u> </u>	64.9	1								TOTAL LOAD AMPERES 185.	

	(5) 500										-) P20								
YANEL NAME: /OLTAGE:	(E) P38								M: PNL. DP-H		E) P39								D FROM: PNL. DP-H
HASE:	208/120V	-							'B: MLO G: 400 AMP		8/120V								AIN C/B: MLO USSING: 400 AMP
VIRE:	4								IC: 10,000		4								/IN. AIC: 10,000
								SUB-FEED C/			4 EMA 1								EED C/B:
MOUNTING:	SURFACE							FEED THRU LUG			IRFACE								LLUGS: YES
		LOAD TYPE (K	VA)	СВ СКТ		CB LOAD	YPE(KVA)					OAD TYPE (KV	A)	CB	CKT PH	CKT CB LOA	D TYPE (K		12000: 120
CIRCUIT DESCRIPTION		LTG REC		AMP/P #		AMP/P LTG		CIRCUIT DESCRIPTION		CIRCUIT DESCRIPTION		LTG REC	,						
N) HEAT PUMP 38, FAN COIL 38 - CLA	SSROOM 38		4.37	(N) 70A 1	A 2	(E) 20A/1P	0.72	EXISTING LOAD		(N) HEAT PUMP 39, FAN COIL 39 - CLASSROOM 3	39		4.37	/ (N) 70A	1 A	2 (E) 20A/1P	0.72	EXISTING LOAD	
			4.37	2P 3	B 4	(E) 20A/1P	0.72	EXISTING LOAD					4.37	· 2P	3 B	4 (E) 20A/1P	0.72	EXISTING LOAD	
EXISTING LOAD		0.72		(E) 20A/1P 5	C 6	(E) 20A/1P	0.72	EXISTING LOAD		EXISTING LOAD		0.72		(E) 20A/1P	5 C	6 (E) 20A/1P	0.72	EXISTING LOAD	
EXISTING LOAD		0.72		(E) 20A/1P 7	A 8	(E) 20A/1P	0.72	EXISTING LOAD		EXISTING LOAD		0.72		(E) 20A/1P	7 A	8 (E) 20A/1P	0.72	EXISTING LOAD	
EXISTING LOAD		0.72		(E) 20A/1P 9	B 10	(E) 20A/1P	0.72	EXISTING LOAD		EXISTING LOAD		0.72		(E) 20A/1P	9 B	10 (E) 20A/1P	0.72	EXISTING LOAD	
EXISTING LOAD		0.72		(E) 20A/1P 11	C 12	(E) 20A/1P	0.72	EXISTING LOAD		EXISTING LOAD		0.72		(E) 20A/1P	11 C	12 (E) 20A/1P	0.72	EXISTING LOAD	
SPACE				13	A 14	(E) 20A/1P	0.72	EXISTING LOAD		SPACE					13 A	14 (E) 20A/1P	0.72	EXISTING LOAD	
SPACE				15	B 16	(E) 20A/1P	0.72	EXISTING LOAD		SPACE					15 B	16 (E) 20A/1P	0.72	EXISTING LOAD	
SPACE				17	C 18	(E) 20A/1P	0.72	EXISTING LOAD		SPACE					17 C	18 (E) 20A/1P	0.72	EXISTING LOAD	
SPACE				19	A 20			SPACE		SPACE					19 A	20		SPACE	
SPACE				21	B 22			SPACE		SPACE					21 B	22		SPACE	
SPACE				23	C 24			SPACE		SPACE					23 C	24		SPACE	
SPACE				25	A 26			SPACE		SPACE					25 A	26		SPACE	
SPACE				27	B 28			SPACE		SPACE					27 B	28		SPACE	
SPACE				29	C 30			SPACE		SPACE					29 C	30		SPACE	
SPACE				31	A 32			SPACE		SPACE					31 A	32		SPACE	
SPACE				33	B 34			SPACE		SPACE					33 B	34		SPACE	
SPACE				35	C 36			SPACE		SPACE					35 C	36		SPACE	
SPACE				37	A 38	1.00		SPACE		SPACE					37 A	38		SPACE	
SPACE				39	B 40			SPACE		SPACE					39 B	40		SPACE	
(N) MOTOR RATED SWITCH FOR CONE	PUMP - RM 38		0.12	(N) 20A/1P 41	C 42			SPACE		(N) MOTOR RATED SWITCH FOR COND PUMP - R			0.12	(N) 20A/1P	41 C	42		SPACE	
		0 2.9	0.1 8.7			1.0	6.5 0 0					0 2.9	0.1 8.7			0	6.5	0 0	
LOAD SUMMARY	CONNECTED KVA	DEMAND FACT	OR DEMAI	ND KVA			Yes/No	KVA PHASE A (CONNECTED)	8.2	LOAD SUMMARY CONNECT	CTED KVA ID	EMAND FACTO	R DEMA	ND KVA			Yes/No	KVA PHASE A (CONNECTED)	7.2
TG) LIGHTING X 125%	1.0	1.25		1.3		FULL RATED AIC		KVA PHASE B (CONNECTED)	7.2	(LTG) LIGHTING X 125%	0	1.25		0.0		FULL RATED A		KVA PHASE B (CONNECTED)	7.2
REC) RECEPTS PER 220.44;	9.4	1.00		9.4		SERIES RATED AIC	-	KVA PHASE C (CONNECTED)	3.7	(REC) RECEPTS PER 220.44;	9.4	1.00		9.4		SERIES RATED A	NC N	KVA PHASE C (CONNECTED)	3.7
0KVA x 100% + REMAINDER x 50%	0	0.50		0.0			N	SUB FEED CONNECTED LOAD		10KVA x 100% + REMAINDER x 50%	0	0.50		0.0		s	PD N	SUB FEED CONNECTED LOAD	
MTR) LARGEST MOTOR X 125%	0.1	1.25		0.2		COPPER BUSSING	Y			(MTR) LARGEST MOTOR X 125%	0.1	1.25		0.2		COPPER BUSSI	NG Y		
REMAINING MOTORS x 100%	0	1.00		0.0	A	LUMINUM BUSSING	N	TOTAL DEMAND KVA	19.5	+ REMAINING MOTORS x 100%	0	1.00		0.0		A LUMINUM BUSSI	NG N	TOTAL DEMAND KVA	18.2
NCL) NON CONTINOUS LOAD x 100%	8.7	1.00		8.7	L			TOTAL LOAD AMPERES	54.2	(NCL) NON CONTINOUS LOAD x 100%	8.7	1.00		8.7		·		TOTAL LOAD AMPERES	50.7

PANEL NAME:	BM													FED FROM: PNL. DP-1
/OLTAGE:	208/120V													MAIN C/B: 400A-3P
PHASE:	3	_												BUSSING: 400 AMP
NIRE:	4													MIN. AIC: 22,000
TYPE:	NEMA 1	-												SUB-FEED C/B:
MOUNTING:	SURFACE													FEED THRU LUGS: YES
		LOAD TYPE ((VA)		CB	CKT	PH	CKT	CB	LOAD -	YPE (K)	VA)		
CIRCUIT DESCRIPTION	$\sim \sim \sim$	LTG REC	MIR	NCL	AMP/P	#		#	AMP/P	LTG	REC	MIR	NCL	
N) HEAT PUMP 25 - CLASSROOM 25				3.74	50Å	N	Α	2	50A Č		•••	· ·		(N) HEAT PUMP 28 - CLASSROOM 28
				3.74	2P	\$	В	4	2P				3.74	
N) HEAT PUMP 26 - CLASSROOM 26				3.74	50A	€	С	6(50A					(N) HEAT PUMP 29 - CLASSROOM 29
				3.74	2P	Y	Α	8	> 2P				3.74	
N) HEAT PUMP 27 - CLASSROOM 27				3.74	50A	4	В	10	15A					(N) FAN COIL 28 - CLASSROOM 28
				3.74	2P	1	С	12	2P				0.89	
N) FAN COIL 25 - CLASSROOM 25				0.89	15A	1/3	Α	14	15A					(N) FAN COIL 29 - CLASSROOM 29
				0.89	2P	15	В	16	2P				0.89	
N) FAN COIL 26 - CLASSROOM 26				0.89	15A	17	С	18	20A/1P		\sim		\sim	SPARE
				0.89	2P)9	A	20	20A/1P					SPARE
N) FAN COIL 27 - CLASSROOM 27				0.89	15A	21	В	22	20A/1P					SPARE
				0.89	2P	233	С	24	20A/1P					SPARE
SPARE	<u> </u>		\wedge	$h \sim$	20A/1P	25	Α	26	20A/1P					SPARE
SPARE					20A/1P	27	В	28	20A/1P					SPARE
SPARE					20A/1P	29	С	30	20A/1P					SPARE
SPARE					20A/1P	31	Α	32	20A/1P					SPARE
SPARE					20A/1P	33	В	34	20A/1P					SPARE
SPARE					20A/1P	35	С	36	20A/1P					SPARE
SPARE					20A/1P	37	Α	38	225A					(E) PNL. 'B1'
N) MOTOR RATED SWITCH FOR COND	PUMP-BLDG B		0.60		20A/1P	39	В	40						
N) GFCI WP REC MOUNT ON ROOF-BLI	DG B	0.54			20A/1P	41	С	42	3P					
		0 0.5	0.6	27.8					l	0	0	0	18.6	
LOAD SUMMARY	CONNECTED KVA	DEMAND FAC	TOR	DEMAN	ND KVA	1					Yes/No			KVA PHASE A (CONNECTED) 17.7
LTG) LIGHTING X 125%	0	1.25		1	0.0	1			FULL RAT					KVA PHASE B (CONNECTED) 15.4
REC) RECEPTS PER 220.44;	0.5	1.00			0.5	1			SERIES RAT	FED AIC	N			KVA PHASE C (CONNECTED) 14.5
10KVA x 100% + REMAINDER x 50%	0	0.50		1	0.0	1				SPD	N			SUB FEED CONNECTED LOAD
MTR) LARGEST MOTOR X 125%	0.6	1.25			0.8	1			COPPER BL	USSING	Y			
REMAINING MOTORS x 100%	0	1.00			0.0	1		A	LUMINUM BL	USSING	N			TOTAL DEMAND KVA 47.7
(NCL) NON CONTINOUS LOAD x 100%	46.4	1.00			46.4	1		L						TOTAL LOAD AMPERES 132.4

PANEL NAME:	(E) P36														FED FROM:	PNL. DP-H
VOLTAGE:	208/120V	-													MAIN C/B:	MLO
PHASE:	3	-													BUSSING:	400 AMP
WIRE:	4	_													MIN. AIC:	
TYPE:	NEMA 1	_													SUB-FEED C/B:	
MOUNTING:	SURFACE									,					FEED THRU LUGS:	YES
CIRCUIT DESCRIPTION		LOAD	TYPE (K REC		NCL	CB AMP/P	CKT #	PH	СКТ #	CB AMP/P	LOAD - LTG	TYPE (K) REC	VA) MTR	NCL	CIRCUIT DESCRIPTION	
(N) HEAT PUMP 36, FAN COIL 36 - CLA	SSROOM 36				4.37	(N) 70A	1	A	2	(E) 20A/1P		0.72			EXISTING LOAD	
					4.37	2P	3	в	4	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	5	С	6	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	7	A	8	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	9	в	10	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	11	С	12	(E) 20A/1P		0.72			EXISTING LOAD	
(N) WEATHERPROOF GFCI RECEPTACL	E - SCIENCE BLDG		0.36			(N) 20A/1P	13	Α	14	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							15	В	16	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							17	С	18	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							19	А	20						SPACE	
SPACE							21	в	22						SPACE	
SPACE							23	С	24						SPACE	
SPACE							25	А	26						SPACE	
SPACE							27	в	28						SPACE	
SPACE							29	С	30						SPACE	
SPACE							31	A	32						SPACE	
SPACE							33	в	34						SPACE	
SPACE							35	С	36						SPACE	
SPACE							37	А	38						SPACE	
SPACE							39	в	40						SPACE	
(N) MOTOR RATED SWITCH FOR COND	PUMP-RM 36			0.12		(N) 20A/1P	41	С	42						SPACE	
		0	3.2	0.1	8.7						0	6.5	0	0		
LOAD SUMMARY	CONNECTED KVA	DEMAN	ID FACT	OR	DEMAN	ND KVA						Yes/No			KVA PHASE A (CONNECTED)	7.6
(LTG) LIGHTING X 125%	0		1.25			0.0				FULL RAT					KVA PHASE B (CONNECTED)	7.2
(REC) RECEPTS PER 220.44;	9.7		1.00			9.7				SERIES RAT	TED AIC	Ν			KVA PHASE C (CONNECTED)	3.7
10KVA x 100% + REMAINDER x 50%	0		0.50			0.0					SPD				SUB FEED CONNECTED LOAD	
(MTR) LARGEST MOTOR X 125%	0.1		1.25			0.2				COPPER BL						
+ REMAINING MOTORS x 100%	0		1.00			0.0			A	LUMINUM BL	JSSING	Ν			TOTAL DEMAND KVA	18.6
(NCL) NON CONTINOUS LOAD x 100%	8.7		1.00			8.7									TOTAL LOAD AMPERES	51.7

PANEL NAME:	CM														FED FROM: P	NL. DP-1
VOLTAGE:	208/120V	_													MAIN C/B: 40	0A-3P
PHASE:	3	_													BUSSING: 40	0 AMP
MRE:	4	_													MIN. AIC: 22	2,000
TYPE:	NEMA 3R	_													SUB-FEED C/B:	
MOUNTING:	_								-					FEED THRU LUGS: Y	ES	
CIRCUIT DESCRIPTION			LOAD TYPE (KVA)			CB		PH	CKT #	CB AMP/P		TYPE (K		NCL	CIRCUIT DESCRIPTION	\sim
(N) HEAT PUMP 30 - CLASSROOM 30	* * * *				3.74	50A	1	Α	2/	50A	Ĩ	ľ	Ĩ		(N) HEAT PUMP 33 - CLASSROOM 33	
					3.74	2P	23	В	4	2F				3.74		
(N) HEAT PUMP 31 - CLASSROOM 31					3.74	50A	Ъ	С	e	50A					(N) HEAT PUMP 34 - CLASSROOM 34	
					3.74	2P	7	Α	8	2F				3.74		
(N) HEAT PUMP 32 - CLASSROOM 32					3.74	50A	49	В	10>	50A				3.74	(N) HEAT PUMP 35 - CLASSROOM 35	
					3.74	2P	41	С	12	2F				3.74		
(N) FAN COIL 30 - CLASSROOM 30					0.89	15A	13	Α	14	15A					(N) FAN COIL 33 - CLASSROOM 33	
					0.89	2P	215	В	16	2F				0.89		
(N) FAN COIL 31 - CLASSROOM 31					0.89	15A	217	С	18	15A					(N) FAN COIL 34 - CLASSROOM 34	
					0.89	2P)19	A	20	2F				0.89		
(N) FAN COIL 32 - CLASSROOM 32					0.89	15A	21	В	22	15A					(N) FAN COIL 35 - CLASSROOM 35	
					0.89	2P	23	С	24	2F)					
SPARE		$\downarrow \frown$	\sim		\sim	20A/1P-	25	Α	26	20A/1P	\sim	\wedge	\sim	\sim	SPARE	\sim
SPARE						20A/1P	27	В	28	20A/1P					SPARE	
SPARE						20A/1P	29	С	30	20A/1P					SPARE	
SPARE						20A/1P	31	Α	32	20A/1P					SPARE	
SPARE						20A/1P	33	В	34	20A/1P					SPARE	
SPARE						20A/1P	35	С	36	20A/1P					SPARE	
SPARE						20A/1P	37	Α	38	225A					(E) PNL. 'C1'	
(N) MOTOR RATED SWITCH FOR COND PUMP - BLDG C				0.72		20A/1P	39	В	40							
(N) WEATHERPROOF GFCI RECEPTACLE - BLDG C			0.54		05.5	20A/1P	41	С	42	38				07.0		
		0	0.5	0.7	27.8]					0	0	0	27.8]	
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR		OR	DEMAND KVA							Yes/No	2		KVA PHASE A (CONNECTED)	1
LTG) LIGHTING X 125%	0	1.25							FULL RA			KVA PHASE B (CONNECTED)				
REC) RECEPTS PER 220.44;	0.5	1.00						SERIES RA				KVA PHASE C (CONNECTED)	1			
10KVA x 100% + REMAINDER x 50%	0	0.50) N			SUB FEED CONNECTED LOAD				
MTR) LARGEST MOTOR X 125%	0.7	1.25				0.9				COPPER BUSSING Y						
+ REMAINING MOTORS x 100%	0	1.00				0.0			A	_UMINUM E	SUSSING	6 N			TOTAL DEMAND KVA	5 15
(NCL) NON CONTINOUS LOAD x 100%		55.7 1.00				55.7									TOTAL LOAD AMPERES	

PANEL NAME:	(E) P37														FED FROM:	PNL. DP-H
VOLTAGE:	208/120V	-													MAIN C/B:	MLO
PHASE:	3	-													BUSSING:	400 AMP
WIRE:	4	_													MIN. AIC:	10,000
TYPE:	NEMA 1	-													SUB-FEED C/B:	
MOUNTING:	SURFACE							I							FEED THRU LUGS:	YES
CIRCUIT DESCRIPTION		LOAD	TYPE (K REC	VA) MTR	NCL	CB AMP/P	СКТ #	PH	СКТ #	CB AMP/P	LOAD LTG	TYPE (K REC	VA) MTR	NCL	CIRCUIT DESCRIPTION	
(N) HEAT PUMP 37, FAN COIL 37 - CLASSROOM 37					4.37	(N) 70A	1	A	2	(E) 20A/1P		0.72			EXISTING LOAD	
					4.37	2P	3	в	4	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	5	С	6	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	7	A	8	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	9	в	10	(E) 20A/1P		0.72			EXISTING LOAD	
EXISTING LOAD			0.72			(E) 20A/1P	11	С	12	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							13	A	14	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							15	в	16	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							17	С	18	(E) 20A/1P		0.72			EXISTING LOAD	
SPACE							19	A	20						SPACE	
SPACE							21	в	22						SPACE	
SPACE							23	С	24						SPACE	
SPACE							25	A	26						SPACE	
SPACE							27	в	28						SPACE	
SPACE							29	С	30						SPACE	
SPACE							31	A	32						SPACE	
SPACE							33	В	34						SPACE	
SPACE							35	С	36						SPACE	
SPACE							37	A	38						SPACE	
SPACE							39	в	40						SPACE	
(N) MOTOR RATED SWITCH FOR COND PUMP - RM 37				0.12		(N) 20A/1P	41	С	42						SPACE	
		0	2.9	0.1	8.7						0	6.5	0	0		
LOAD SUMMARY	CONNECTED KVA	DEMAN	D FACT	OR	DEMAN	ID KVA						Yes/No	1		KVA PHASE A (CONNECTED)	7.2
(LTG) LIGHTING X 125%	0	1.25			0.0				FULL RAT	RATED AIC Y				KVA PHASE B (CONNECTED)	7.2	
(REC) RECEPTS PER 220.44;	9.4	1.00			9.4			SERIES RATED AIC						KVA PHASE C (CONNECTED)	3.7	
10KVA x 100% + REMAINDER x 50%	0	0.50			0.0					SPD	Ν			SUB FEED CONNECTED LOAD		
(MTR) LARGEST MOTOR X 125%	0.1	1.25			0.2				COPPER BL	JSSING	Y					
+ REMAINING MOTORS x 100%	0	1.00				0.0			A	LUMINUM BL	JSSING	Ν			TOTAL DEMAND KVA	18.2
(NCL) NON CONTINOUS LOAD x 100%	8.7		1.00			8.7									TOTAL LOAD AMPERES	50.7



