



February 3, 2023

**Rainforth Grau Architects Project No.22-1515**  
DSA File and Application No. 39-73 / 02-120733  
PTN: 75499-180

## ADDENDUM NO. 1

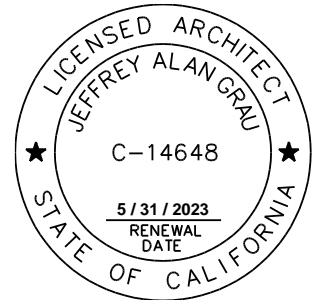
Villalovoz Elementary School, Inc. #2  
Tracy, California

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Rainforth Grau Architects

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EDGE Electrical Consulting



1. ALL WORKMANSHIP, MATERIALS, APPLIANCES AND EQUIPMENT which may be included in the following items shall be the same relative quantity as described for similar work set forth in the original or main specifications of which these Addendum items shall be considered a part.
2. ADDENDUM SECTIONS (included with this Addendum)  
The following modify or supplement the issued bid documents.  
  
Section 12 5900      ADD 12 5900, SYSTEMS FURNITURE
3. ADDENDUM DRAWINGS (included with this Addendum)  
The following modify or supplement the issued bid documents.  
  

AD1.01	REPLACE SHEET A0.1-2
AD1.02	ADD SHEET A1.1.1-2
AD1.03	REPLACE SHEET A2.1.1-2
AD1.04	REVISE SHEET A2.1.3-2
AD1.05	REPLACE SHEET A2.1.8-2
AD1.06	REPLACE SHEET A2.1.9-2
AD1.07	REPLACE SHEET A4.1.4-2
AD1.08	REVISE SHEET A5.1.4-2
AD1.09	REVISE SHEET A5.1.7-2
AD1.10	REPLACE SHEET A6.2.1-2

AD1.11	REPLACE SHEET A6.2.2-2
AD1.12	REVISE SHEET A8.1.2-2
AD1.13	REPLACE SHEET E0.0.1-2
AD1.14	REPLACE SHEET E2.1.5-2
AD1.15	REPLACE SHEET E2.1.6-2
AD1.16	REPLACE SHEET E2.1.7-2
AD1.17	REPLACE SHEET E2.1.8-2
AD1.18	REPLACE SHEET E2.1.9-2
AD1.19	REPLACE SHEET E2.1.10-2
AD1.20	REPLACE SHEET E2.2.3-2
AD1.21	REPLACE SHEET E2.2.4-2
AD1.22	REPLACE SHEET E2.3.3-2
AD1.23	REPLACE SHEET E2.3.4-2
AD1.24	REPLACE SHEET E2.4.3-2
AD1.25	REPLACE SHEET E2.4.4-2
AD1.26	REPLACE SHEET E3.1.2-2
AD1.27	REPLACE SHEET E3.1.3-2
AD1.28	REPLACE SHEET E3.1.4-2

4. PROJECT MANUAL

A. Table of Contents

1. Division 12, Furnishings
  - a. ADD "12 5900 Systems Furniture"

5. DRAWINGS

A. Sheet A0.1-2, COVER SHEET

1. DELETE sheet in its entirety and REPLACE with sheet AD1.01 included with this addendum.

B. Sheet A1.1.1-2, OVERALL SITE PLAN

1. ADD sheet AD1.02 included with this addendum.

C. Sheet A2.1.1-2, FLOOR PLAN – BUILDING A

1. DELETE sheet in its entirety and REPLACE with sheet AD1.03 included with this addendum.

D. Sheet A2.1.3-2, TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS – BUILDING A

1. REVISE detail 1, BUILDING A – DEMO RESTROOMS A118 AND A119 per sheet AD1.04 included with this addendum.
- E. Sheet A2.1.8-2, ROOF PLAN – BUILDING A
1. DELETE sheet in its entirety and REPLACE with sheet AD1.05 included with this addendum
- F. Sheet A2.1.9-2, ROOF PLAN – BUILDINGS B THROUGH J
1. DELETE sheet in its entirety and REPLACE with sheet AD1.06 included with this addendum.
- G. Sheet A4.1.4-2, OVERALL EXTERIOR ELEVATIONS – BUILDINGS H, J, & K.
1. DELETE sheet in its entirety and REPLACE with sheet AD1.07 included with this addendum.
- H. Sheet A5.1.4-2, INTERIOR ELEVATIONS – BUILDING A
1. ADD detail 1, FURNITURE FLOOR PLAN per sheet AD1.08 included with this addendum
- I. Sheet A5.1.7-2, INTERIOR ELEVATIONS – BUILDING A
1. REVISE detail A132 CLASSROOM/ A133 ALCOVE per sheet AD1.09 included with this addendum.
- J. Sheet A6.2.1-2, REFLECTED CEILING PLAN – BUILDING A
1. DELETE sheet in its entirety and REPLACE with sheet AD1.10 included with this addendum
- K. Sheet A6.2.2-2, REFLECTED CEILING PLAN – BUILDINGS B THROUGH J
1. DELETE sheet in its entirety and REPLACE with sheet AD1.11 included with this addendum
- L. Sheet A8.1.2-2, ROOF PLAN – BUILDING A

1. REVISE detail 9, PARAPET AT MANSARD per sheet AD1.12 included with this addendum
- M. Sheet E0.0.1-2, SHEET INDEX AND SYMBOLS
1. DELETE sheet in its entirety and REPLACE with sheet AD1.13 included with this addendum.
- N. Sheet E2.1.5-2, BLDG A FLOOR PLAN – DEMOLITION POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.14 included with this addendum.
- O. Sheet E2.1.6-2, BLDG A FLOOR PLAN – DEMOLITION POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.15 included with this addendum.
- P. Sheet E2.1.7-2, BLDG A FLOOR PLAN, NEW POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.16 included with this addendum.
- Q. Sheet E2.1.8-2, BLDG A FLOOR PLAN, NEW POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.17 included with this addendum.
- R. Sheet E2.1.9-2, BLDG A FLOOR PLAN – NEW FIRE ALARM
1. DELETE sheet in its entirety and REPLACE with sheet AD1.18 included with this addendum.
- S. Sheet E2.1.10-2, BLDG A FLOOR PLAN – NEW FIRE ALARM
1. DELETE sheet in its entirety and REPLACE with sheet AD1.19 included with this addendum.
- T. Sheet E2.2.3-2, BLDG B, H, & J FLOOR PLAN, DEMOLITION POWER & SIGNAL



1. DELETE sheet in its entirety and REPLACE with sheet AD1.20 included with this addendum.
- U. Sheet E2.2.4-2, BLDG B, H & J FLOOR PLAN – NEW POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.21 included with this addendum.
- V. Sheet E2.3.3-2, BLDG C, D, & E FLOOR PLAN – DEMOLITON POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.22 included with this addendum.
- W. Sheet E2.3.4-2, C, D, & E FLOOR PLAN – NEW POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.23 included with this addendum.
- X. Sheet E2.4.3-2, BLDG F, G, & K FLOOR PLAN – DEMOLITION POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.24 included with this addendum.
- Y. Sheet E2.4.4-2, BLDG F, G, & K FLOOR PLAN – NEW POWER & SIGNAL
1. DELETE sheet in its entirety and REPLACE with sheet AD1.25 included with this addendum.
- Z. Sheet E3.1.2-2, FIRE ALARM RISER DIAGRAM
1. DELETE sheet in its entirety and REPLACE with sheet AD1.26 included with this addendum.
- AA. Sheet E3.1.3-2, FIRE ALARM RISER DIAGRAM
1. DELETE sheet in its entirety and REPLACE with sheet AD1.27 included with this addendum.
- BB. Sheet E3.1.4-2, FIRE ALARM CALCULATIONS
1. DELETE sheet in its entirety and REPLACE with sheet AD1.28 included with this addendum.

5. GENERAL INFORMATION

- A. Project budget is \$2,500,000.
- B. Bidders are notified that the current bid set of documents is not DSA approved. However, the contract documents to be executed after award will be the DSA approved documents. Should the DSA approved set deviate materially from the bid set, such changes will be addressed via change order at the time of contract execution to reconcile any modifications.

\* \* \* END OF ADDENDUM \* \* \*

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## **PART 1 - GENERAL**

### **1.1 SUMMARY**

- A. Section Includes:
  - 1. Systems furniture.

### **1.2 RELATED REQUIREMENTS**

- A. Section 01 6116, Volatile Organic Compound (VOC) Restrictions; for VOC limits pertaining to adhesives, sealants, fillers, primers, and coatings.
- B. Section 01 8113, Sustainable Design Requirements, for CAL-Green general requirements and procedures.

### **1.3 REFERENCES AND STANDARDS**

- A. California Building Code (CBC), edition as noted on the Drawings, as adopted by the California Division of the State Architect (DSA).
- B. California Green Building Standards Code (CALGreen), edition as noted on the Drawings, as adopted by the California Division of the State Architect (DSA).
- C. American National Standards Institute (ANSI)
- D. Building + Institutional Furniture Manufacturers Association
  - 1. BIFMA X5.6-2003.

### **1.4 ADMINISTRATIVE REQUIREMENTS**

- A. Submittal Procedures:
  - 1. Action Submittals and Informational Submittals shall be submitted in accordance with Section 01 3300, Submittal Procedures.
  - 2. Closeout Submittals shall be submitted in accordance with Section 01 7700, Closeout Procedures.
  - 3. Sustainable Design Submittals shall comply with the additional requirements of Section 01 8113, Sustainable Design Requirements.

### **1.5 ACTION SUBMITTALS**

- A. Shop Drawings: Prepare for each furniture layout.
  - 1. Show all parts, connections, anchorages, and adjacent materials, fully dimensioned and noted.

**SYSTEMS FURNITURE**  
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- 2. Include manufacture and installation details, fastenings, connections to building structure and inter-connection of shelving units required by the CBC.
- 3. Clearly note variations from specified design and component construction requirements.
- B. Product Data: Manufacturer's complete descriptive data for products proposed for use. Include manufacturer's specifications, installation instructions, and maintenance instructions.
- C. Samples: Manufacturer's full range of colors for Architect's selection.

**1.6 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For supplier and installer.
- B. Sample of manufacturer's warranty.
- C. Sustainable Design:
  - 1. General:
    - a. Submit information necessary to establish and document compliance with the California Green Building Standards Code.
    - b. Sustainable design submittals are in addition to other submittals.
  - 2. The following information shall be provided:
    - a. Adhesives and Sealants: Evidence of compliance that products meet maximum VOC content limits specified in Section 01 6116.

**1.7 CLOSEOUT SUBMITTALS**

- A. Warranty/Guarantee: Submit executed warranty and Subcontractor's guarantee.

**1.8 QUALITY ASSURANCE**

- A. Qualifications of Suppliers and Installers: Only those firms regularly involved with the provision and installation of library equipment for the past five years shall be considered. Factory-authorized personnel shall perform installation.
- B. Use only new materials and products, unless existing materials or products are specifically shown otherwise on the Drawings to be salvaged and re-used.
- C. Single Source Responsibility: Use materials and products of one manufacturer whenever possible.
- D. Materials, components, assemblies, workmanship and installation are to be observed by the Owner's Project Inspector. Work not so inspected is subject to uncovering and replacement.
- E. Manufacturer's approved recommended installation procedures will become the basis for inspecting and accepting or rejecting actual installation procedures used on the work.

**1.9 DELIVERY, STORAGE AND HANDLING**

- A. Deliver undamaged products to job in manufacturer's sealed containers and/or original bundles with tags and labels intact.
- B. Store materials in protected, clean, dry conditions off of ground and in areas so as to not interfere with the progress of the Work.
- C. Transport, store and handle in strict accordance with manufacturer's written recommendations.
- D. Use clean, nonstaining materials for blocking and packing. Carefully load and cover for shipment.
- E. Do not transport during inclement weather.

**1.10 FIELD CONDITIONS**

- A. Make and be responsible for all field dimensions necessary for proper fitting and completion of work. Report discrepancies to Architect before proceeding.

**1.11 WARRANTY**

- A. Manufacturer: In addition to the Contractor's and Subcontractor's Guarantee, furnish Owner with manufacturer's fully executed written warranties against defects in materials and workmanship.
  - 1. System Furniture: Limited Lifetime
  - 2. Work Surfaces: 12 Years
  - 3. Storage: 12 Years

**PART 2 - PRODUCTS**

**2.1 DESIGN AND PERFORMANCE CRITERIA**

- A. Design: Powered, steel framed furniture system with monolithic tackable acoustical panels/skins, fixed height workstations and storage.
- B. Components of the system shall be the furniture vendor's standard products which meet the performance requirements, sizes, shapes, finishes and colors as shown on the drawings and specified herein.
- C. Electrical power and data shall be available below and above the work surface height.
- D. Sustainable Design:
  - 1. VOC emissions for field-applied adhesives, sealants, and sealant primers must comply with limits specified in Section 01 6116.

**SYSTEMS FURNITURE**  
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**2.2 SYSTEMS FURNITURE**

- A. Manufacturer: Steelcase: Answer Panel Solutions as specified and the basis of design, or equal.
- B. Configurations: Furnish and configure systems furniture as shown on the Drawings and as specified.

**2.3 CONSTRUCTION OF PANEL COMPONENTS**

- A. Panel assemblies shall be no less than 2-1/2 inches and no more than 3 inches thick.
- B. Panels shall be available in nominal widths, 18 inches to 60 inches, and shall meet requirements as designated on the drawings.
- C. Panel heights shall be available in nominal heights, 42 inches to 64 inches as designated on the drawings and measured from the finished floor to the top of the panel. All powered and non-powered panels shall be in compatible heights.
- D. The service walls shall provide ready access to any point to power, data and communications. The internal structure shall provide a high capacity for full lay-in cable distribution horizontally and vertically anywhere along the wall face. Power and data outlets shall be provided for above and below the work surface.
- E. Fabrics for the systems panels shall be selected from the manufacturer's full line of standard fabrics.
  - 1. Material: Polyester.
  - 2. Width: 66 inches wide.
  - 3. Color: As selected by Architect.
  - 4. Flammability: ASTM-E-84 Unadhered, Class A.
- F. All panels shall be tackable or capable of accommodating fabric-covered tackboards.
- G. The finish on all filler posts shall match the finish and color of the panel trim. Each filler post shall have a top cover that shall match finish and color of the panel trim and shall be level with the panel top rail.

**2.4 WORK SURFACES**

- A. Work surfaces mounted adjacent to each other shall show no obvious difference in height except as adjusted for special needs.
- B. Work surfaces shall have a nominal depth of 24 inches.
- C. Finish as selected by Architect from full range of standard laminates.

## **2.5 STORAGE**

- A. All pedestal units shall be designated to pass applicable BIFMA tests.
- B. All file drawers shall have full extension ball-bearing suspension.

## **2.6 ELECTRICAL COMPONENTS**

- A. Electrical power shall be available below and above work surface height.
- B. All wiring components of the electrical system shall be concealed, but accessible, and installed in conformance with all local codes and regulations.
- C. All electrical components utilized in the workstation units shall be UL Listed for use in this type of work.
- D. The systems furnishings pre-manufactured UL approved power distribution system shall be compatible with the building electrical system and wiring.
- E. Outlets: Manufacturer's specification grade 120 volt, 15 amp duplex outlets. Faceplates are to be systems furniture standard. Finish shall match the color of the base. Outlets shall be easily changeable and easily optioned for circuit designation. Placement of the outlets shall be located as shown on drawings.
- F. Service from one (1) activation kit/whip in the wall or from the ceiling shall have the capacity to support a minimum of four (4) fully configured workstations.
- G. Connection of the building electrical system from the activation kit/whip to the workstation panel system shall be the responsibility of the system contractor.
- H. Electrical components within workstation panels shall not interfere with space required for voice and data communication cables.
- I. Non-powered panel raceways shall be capable of easy field conversion to powered raceways without requiring the panel to be dismantled and removed from the workstation.
- J. All receptacles shall be commercial grade and identified.

## **2.7 FABRICATION**

- A. Fabricate work in shop to greatest extent possible before application of finishes.
- B. Remove sharp and rough edges and corners from cut metal and grind welds smooth.
- C. Each face of the fabric-faced panel/skin shall have a seamless piece of fabric covering stretched over the entire face of the panel. The fabric shall be attached securely and continuously along the entire perimeter of the panel/skin and shall be capable of easy removal and replacement in the field.

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**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Prior to installation of the systems furniture, carefully examine conditions of work in place before beginning work. Verify that the installed work of other trades is complete to the point where this installation may properly commence.
- B. Verify that specified items may be installed in accordance with the approved design.
- C. In the event of discrepancy, immediately notify Architect. Do not proceed in discrepant areas until discrepancies have been fully resolved.

**3.2 INSTALLATION**

- A. Install systems furniture where indicated on the Drawings, in accordance with referenced standards, reviewed shop drawings, manufacturer's written instructions and recommendations, anchoring components firmly in place to meet specified requirements. All fastenings to be concealed whenever possible.
- B. Set frames plumb, level, square and true in alignment, and seismically secure.
- C. The systems furniture contractor shall perform all phase balancing of cluster circuits.
- D. Install accessory items in locations indicated and as instructed by Owner.

**3.3 CLEANING**

- A. Upon completion of installation, remove manufacturer's temporary labels, marks of identification. Thoroughly wash surfaces and remove foreign material.
- B. Replace damaged parts and surfaces which are not free from imperfections.

**3.4 PROTECTION**

- A. Protect work and materials of this Section and other Sections prior to and during installation, and protect the installed work and materials of other trades.
- B. In the event of damage, make all repairs and replacements necessary to the approval of the Architect at no additional cost to the Owner.
- C. Exposed finishes shall be free from scratches, dents, permanent discolorations and other defects in workmanship or material.

**END OF SECTION**



Abbreviations:

A	And	F.R.P.	Fiberglass Reinforced	P.D.F.	Power Driven Fastener
@	Circle	F.V.	Field Verify	PT	Part
Centerline	Centerline	F.V.	Field Verify	PT, PART	Part
Degree	Degree	F.F.E.	Finish Floor Elevation	PEN	Penetration
PERPENDICULAR	Perpendicular	F.F.H.	Finish Grade	PERF	Perforated
PROPERTY LINE	Property Line	F.A.	Fire Alarm	P.LAM	Plastic Laminate
		F.E.	Fire Extinguisher	PL	Plate
A.F.F.	Above Finish Floor	F.E.C.	Fire Extinguisher Cabinet	P.V.	Plumbing Vent
ACOUST.	Acoustical	FLASH	Flashing	PLYWD.	Plywood
ADJ.	Adjustable	F.H.M.B.	Flat Head Machine Bolt	LSB	Lead Sheet
AGGR.	Aggregate	F.H.M.S.	Flat Head Machine Screw	PRE-FAB.	Prefabricated
A.B.	Aluminum	F.W.S.	Flat Head Wood Screw	P.M.F.	Pressed Metal Frame
ALUM./AL.	Aluminum	F.L.FLR.	Floor	P.T./P.T.D.F.	Pressure Treated Douglas Fir
AD	Area Drain	F.D.	Floor Drain		
ASPH.	Asphalt	FT	Foot/Foot		
A.V.	Audio Visual	FTQ	Footing		
AUTO.	Automatic	FND	Foundation		
		FURR.	Furring		
BM	Beam				
BLK	Block	GALV.	Galvanized		
BLKG.	Blocking	G.I.	Galvanized Iron		
BO.	Board	G.S.M.	Galvanized Sheet Metal		
BOT	Bottom	G.W.H.	Gas Water Heater		
BULD.G.	Building	GA	Gauge		
		GLU/LAM./G.L.B.	Glue Laminated (Beam)		
CAB.	Cabinet	GR	Grab Bar		
CATV	Cable T.V.	GYP.	Gypsum		
C.I.	Cast Iron	GYP.BD.	Gypsum Wallboard		
CLKG.	Calich Basin				
CLKG.	Caulking	HDWR	Hardware		
CNTR./CTR.	Center	HDWD.	Hardwood		
CER.	Ceramic	HVAC	Heating/Ventilating		
C.L.	Chain Link				
CB	Chalkboard	H.JRT.	Air Conditioning		
CLAS.	Classroom	H.M.	Hollow Metal		
CLR	Clear	H.H.F.	Horizontal		
C.W.	Cold Water	H.B.	Hose Bib		
COL.	Column	HR	Hour (Fire Rating)		
CONC.	Concrete				
C.M.U.	Concrete Masonry Unit				
CONN.	Connection	IN	Inch		
CONSTR.	Construction	INFO.	Information		
C.J.	Construction Joint	INSUL.	Insulation		
		INT.	Interior		
CONT.	Continuous	INV.	Invert		
CONTR.	Contractor	STRUC.	Structural		
CORR.	Corrosion	SUSP.	Suspended		
C.M.P.	Cable Metal Pipe	SYM.	Symbol		
CUST.	Custodian				
		KB	Kickplate		
D.	Deep/Depth	KIT.	Kitchen		
DET./DTL.	Detail				
DIMS	Dimension	LAM.	Laminate		
DIA / Ø	Diameter	LAV.	Lavatory		
DIM	Dimension	LT.WT.	Light Weight		
DIM.PT.	Dimension Point	L.F.	Lineal Feet		
DW.	Dishwasher	M.B.	Machine Bolt		
DR.	Door	DBL.	Double		
DR.	Double	MFR.	Manufacturer		
DN	Down	M.O.	Masonry Opening		
DS.	Downspout	M.O.	Masonry Opening		
D.I.	Drain Inlet	MATL.	Material		
DWG.	Drawing	MAX.	Maximum		
D.F.	Drinking Fountain	MECH.	Mechanical		
		MTL.	Membrane		
EA.	Each	MEZ.	Mezzanine		
E.	East	MIN.	Minimum		
ELEC.	Electrical	MISC.	Miscellaneous		
E.W.C.	Electric Water Cooler	M.P.	Multipurpose		
E.W.H.	Electric Water Heater				
EL./ELEV.	Elevation	(N)	New		
EMER.	Emergency	NOM.	Nominal		
ENCL.	Enclosure	N.	North		
EQ.	Equal	N.I.C.	Not in Contract		
E.F.	Exhaust Fan	N.T.S.	Not to Scale		
(E)/EXIST.	Existing	NOM.	Number		
EXP.	Expansion	O.F.O.I.	Owner Furnish, Owner Installed		
E.J.	Expansion Joint				
EXT.	Exterior	O.F.C.I.	Owner Furnish, Contractor Installed		
		O.C.	On Center		
F.O.C.	Face of Concrete/Curb	OPP.	Opposite		
F.O.F.	Face of Finish	O.H.	Opposite Hand		
F.O.S.	Face of Studs	O.D.	Outside Diameter		
F.B.	Fiberglass	O.H.W.S.	Over Head Wood Screw		
F.R.L.	Fiberglass Reinforced Laminate	OA	Overall		

Symbol Legend:

<b>SHEET NUMBERING SYSTEM</b>	<b>STRUCTURAL GRID IDENTIFIER</b> (center of framing)
<b>ROOM NAME AND NUMBERING REFERENCE</b>	<b>STRUCTURAL GRID IDENTIFIER</b> (face of framing, concrete or CMU)
<b>KEYNOTE REFERENCE</b> (All items indicated with a keynote are new)	<b>CENTERLINE</b>
<b>SHEET NOTE REFERENCE</b>	<b>WORK POINT CONTROL</b>
<b>DEMOLITION NOTE REFERENCE</b>	<b>REVISION</b>
<b>DETAIL REFERENCE</b>	<b>RADIUS</b>
<b>BUILDING SECTION REFERENCE</b>	<b>EXTERIOR ELEVATION REFERENCE</b>
<b>WALL SECTION REFERENCE</b>	<b>SPECIAL ELEVATION REFERENCE</b>

# VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

## TRACY UNIFIED SCHOOL DISTRICT TRACY, CA

Architect:

**RAINFORTH GRAU ARCHITECTS**  
2101 CAPITOL AVENUE, SUITE 100  
SACRAMENTO, CA 95816  
916.368.7990

Owner:

**TRACY UNIFIED SCHOOL DISTRICT**  
1875 W LOWELL AVE  
TRACY, CA 95376  
(209) 830-3245

Contact: JAIME QUINTANA

Contact: VIPUL SAFI

Consultants:

**CIVIL ENGINEER:**  
WARREN CONSULTING ENGINEERS  
1117 WINDFIELD WAY, SUITE 110  
EL DORADO HILLS, CA 95762  
916.985.1870  
ATTN: ANTHONY TASSANO

**ELECTRICAL ENGINEER:**  
EDGE ELECTRICAL CONSULTING  
431 30th STREET  
SACRAMENTO, CA 95816  
916.256.2460  
ATTN: THIEN DO

**MECHANICAL ENGINEER:**  
PETERS ENGINEERING  
7750 COLLEGE TOWN DRIVE, SUITE 101  
SACRAMENTO, CA 95826  
916.447.2841  
ATTN: SEAN TICHENOR

SITE LOCATION

1550 CYPRESS DR.  
TRACY, CA 95376

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A0.8-2 CODE INFORMATION SITE PLAN  
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A0.9-2,2 CODE INFORMATION EXISTING PLAN - BUILDINGS B THROUGH J

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E0.0.3-2 TITLE 24 COMPLIANCE  
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E2.1-5,2 BLDG A FLOOR PLAN - DEMOLITION POWER & SIGNAL  
E2.1-6,2 BLDG A FLOOR PLAN - DEMOLITION POWER & SIGNAL  
E2.1-7,2 BLDG A FLOOR PLAN - NEW POWER & SIGNAL  
E2.1-8,2 BLDG A FLOOR PLAN - NEW POWER & SIGNAL  
E2.1-9,2 BLDG A FLOOR PLAN - NEW FIRE ALARM  
E2.1-10,2 BLDG A FLOOR PLAN - NEW FIRE ALARM  
E2.2-1,2 BLDG B, H, & J FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)  
E2.2-2,2 BLDG B, H, & J FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)  
E2.2-3,2 BLDG B, H, & J FLOOR PLAN - DEMOLITION POWER & SIGNAL  
E2.2-4,2 BLDG B, H, & J FLOOR PLAN - NEW POWER & SIGNAL  
E2.2-5,2 BLDG B, H, & J FLOOR PLAN - NEW FIRE ALARM  
E2.3-1,2 BLDG C, D, & E FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)  
E2.3-2,2 BLDG C, D, & E FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)  
E2.3-3,2 BLDG C, D, & E FLOOR PLAN - DEMOLITION POWER & SIGNAL  
E2.3-4,2 BLDG C, D, & E FLOOR PLAN - NEW POWER & SIGNAL  
E2.3-5,2 BLDG C, D, & E FLOOR PLAN - NEW FIRE ALARM  
E2.4-1,2 BLDG F, G, & K FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)  
E2.4-2,2 BLDG F, G, & K FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)  
E2.4-3,2 BLDG F, G, & K FLOOR PLAN - DEMOLITION POWER & SIGNAL  
E2.4-4,2 BLDG F, G, & K FLOOR PLAN - NEW POWER & SIGNAL  
E2.4-5,2 BLDG F, G, & K FLOOR PLAN - NEW FIRE ALARM  
E3.1-1,2 ONE-LINE DIAGRAM & RISER DIAGRAM  
E3.1-2,2 FIRE ALARM RISER DIAGRAM  
E3.1-3,2 FIRE ALARM RISER DIAGRAM  
E3.1-4,2 FIRE ALARM CALCULATIONS  
E3.1-5,2 FIRE ALARM CALCULATIONS  
E3.1-6,2 FIRE ALARM CALCULATIONS  
E3.1-7,2 SCHEDULES  
E3.1-8,2 SCHEDULES  
E4.1-1,2 ELECTRICAL DETAILS  
E4.1-2,2 ELECTRICAL DETAILS  
E4.1-3,2 ELECTRICAL DETAILS  
E4.1-4,2 ELECTRICAL DETAILS  
TOTAL SHEET COUNT: 86

SCOPE OF WORK

- INCREMENT 1:  
- ALTERATIONS TO EXISTING SITE FENCING AND GATES AND PATH OF TRAVEL AT FRONT OF SCHOOL
- INCREMENT 2:  
- UPGRADES TO THE (E) LOW VOLTAGE SYSTEM - ENTIRE CAMPUS  
- REMODEL OF THE FRONT OFFICE FOR A FORCED ENTRY  
- ADA UPGRADES TO THE EXISTING BOYS, GIRLS AND STAFF RESTROOMS IN UNIT A  
- ROOFING  
- REMOVAL OF THE (E) CLAY TILES AT UNIT A'S MANSARD ROOFS AND INSTALLATION OF (N) METAL ROOFING  
- RE-ROOFING OF THE (E) SINGLEPLY ROOFING AND THE (E) METAL ROOFING  
- INSTALLATION OF (N) LEARNING WALLS (CASEWORK & SHORT THROW PROJECTORS) AT ALL CLASSROOM AS NOTED  
- COMPLETE SITE SIGNAGE PACKAGE  
- (N) HORIZONTAL LOUVER BLINDS - ENTIRE CAMPUS  
- REMOVAL AND REPLACEMENT OF THE (E) MARQUE WITH (N) ELECTRONIC MESSAGE SIGNAGE - EXTERIOR AND INTERIOR PAINTING, ALL BUILDINGS
- REPLACE ALL CYLINDER CORES AT ALL DOORS AND PROVIDE NEW KEYING SYSTEM  
REPLACE (E) LIGHT FIXTURE AND INSTALL (N) LED FIXTURES - ADDITIVE ALTERNATE
- INCREMENT 3:  
- ADDITION OF (2) NEW PC SHADE STRUCTURES

KEYING REQUIREMENTS

Contractor to remove and replace the existing cylinder cores at all the doors on the Villalovo ES site and replace with Schlage 23-030 626 FSIC full size interchangeable cylinders. Pack change keys independently (PKI).  
Contractor to coordinate with "Opening Technologies" for the install of new keying system. All products shall be supplied in Everest section T135 per the Tracy USD Master key plan.  
District and contractor shall have a keying meeting to discuss and develop keying schedule to expand current key system hierarchy established by Tracy USD.  
Contractor to provide a keying schedule. Each keyed cylinder on every keyed lock is to be listed separately showing the door #, key group (in BHMA terminology), cylinder type, finish and location on the door.

Contractor to furnish mechanical keys as follows:  
•Furnish 3 cut change keys for each door. Note: For a pair of doors, this would be a total of 6.  
•Furnish 50 uncut key blanks.  
•Furnish 50 cut master keys. This quantity will include any sub-masters as defined in the keying schedule. It shall be any combination of Grand master and Master keys to be determined by the District at the time of the development of keying schedule by the Contractor.  
•Furnish 125 cut "Staff Keys".  
•Furnish 2 cut control keys cut to the top masterkey for permanent i/c cylinders.  
•Furnish 1 cut control key cut to each SKD combination.  
•Furnish Schlage Padlocks and the cylinders to tie them into the masterkey system for gates, storage boxes, utility valve security, roof hatches and roll-up doors keyed as directed in the keying schedule.

Applicable Codes:

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS  
TITLE 24, CCR, PART 1, 2022 CALIFORNIA ADMINISTRATIVE CODE  
TITLE 24, CCR, PART 2, 2019 CALIFORNIA BUILDING CODE VOL. 1 & 2  
TITLE 24, CCR, PART 3, 2019 CALIFORNIA ELECTRICAL CODE  
TITLE 24, CCR, PART 4, 2019 CALIFORNIA MECHANICAL CODE  
TITLE 24, CCR, PART 5, 2019 CALIFORNIA PLUMBING CODE  
TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE  
TITLE 24, CCR, PART 9, 2019 CALIFORNIA FIRE CODE  
TITLE 24, CCR, PART 10, 2019 CALIFORNIA EXISTING BUILDING CODE  
TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE  
TITLE 24, CCR, PART 12, 2019 CALIFORNIA REFERENCED STANDARDS CODE

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDMENTS)  
NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDMENTS)

UL 464, 2003 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521, 7TH EDITION, 1999 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

THE CONTRACTOR SHALL KEEP TITLE 24, CCR, PARTS 1-5 ON THE BUILDING SITE AT ALL TIMES.

DSA Procedures:

- THE CONTRACTOR SHALL BE FAMILIAR WITH, AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY, FIRE AND LIFE-SAFETY OR ENERGY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL BE MADE BY ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338. THE ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT SHALL BE SUBMITTED AND APPROVED TO DSA IN ACCORDANCE WITH TITLE 24, PART 1 AND DSA IR-A-6.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVED PLANS AND / OR SPECIFICATIONS. THEY ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL. PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR-A-6.
- A CLASS 2 "DSA CERTIFIED" PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, ENGINEER, AND THE DSA AND PROVIDE CONTINUOUS INSPECTION IN ACCORDANCE WITH TITLE 24, PART 1, 4-342.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHICH WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE CONSTRUCTION DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK IN ACCORDANCE WITH TITLE 24, PART 1, 4-317(C).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- CONTRACTOR SHALL COMPLY W/ CFC CH. 33 - FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION

Deferred Approval:

NONE

Add Alternates:

- REMOVE AND REPLACE EXISTING LIGHTING FIXTURES THROUGHOUT ALL BUILDINGS. SEE ELECTRICAL DRAWINGS.

Statement of General Conformance

THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (J))

SIGNATURE: 02/03/2023 DATE:

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

JEFFREY ALAN GRAU

PRINT NAME

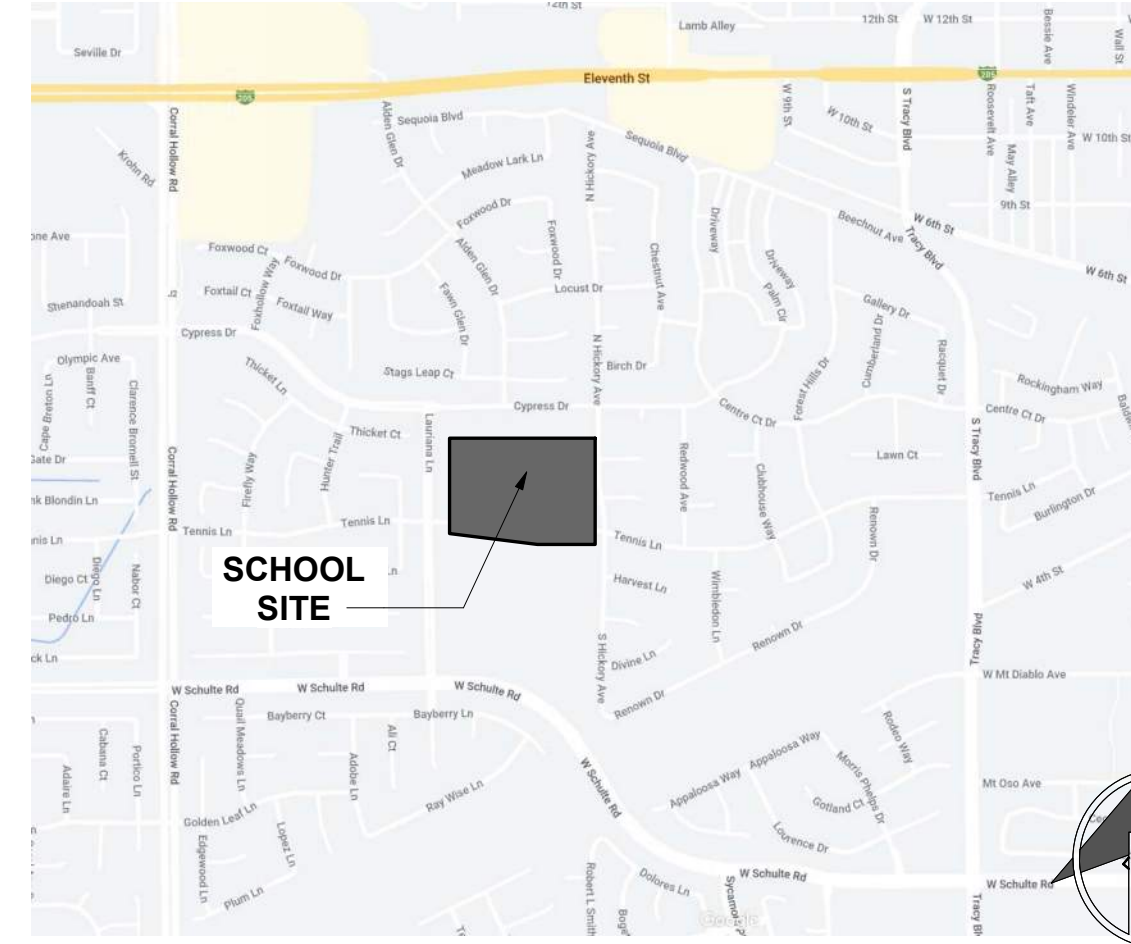
C-14648 5/31/23

LICENSE NUMBER EXPIRATION DATE

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

ELECTRICAL

Vicinity Map:



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COVER SHEET

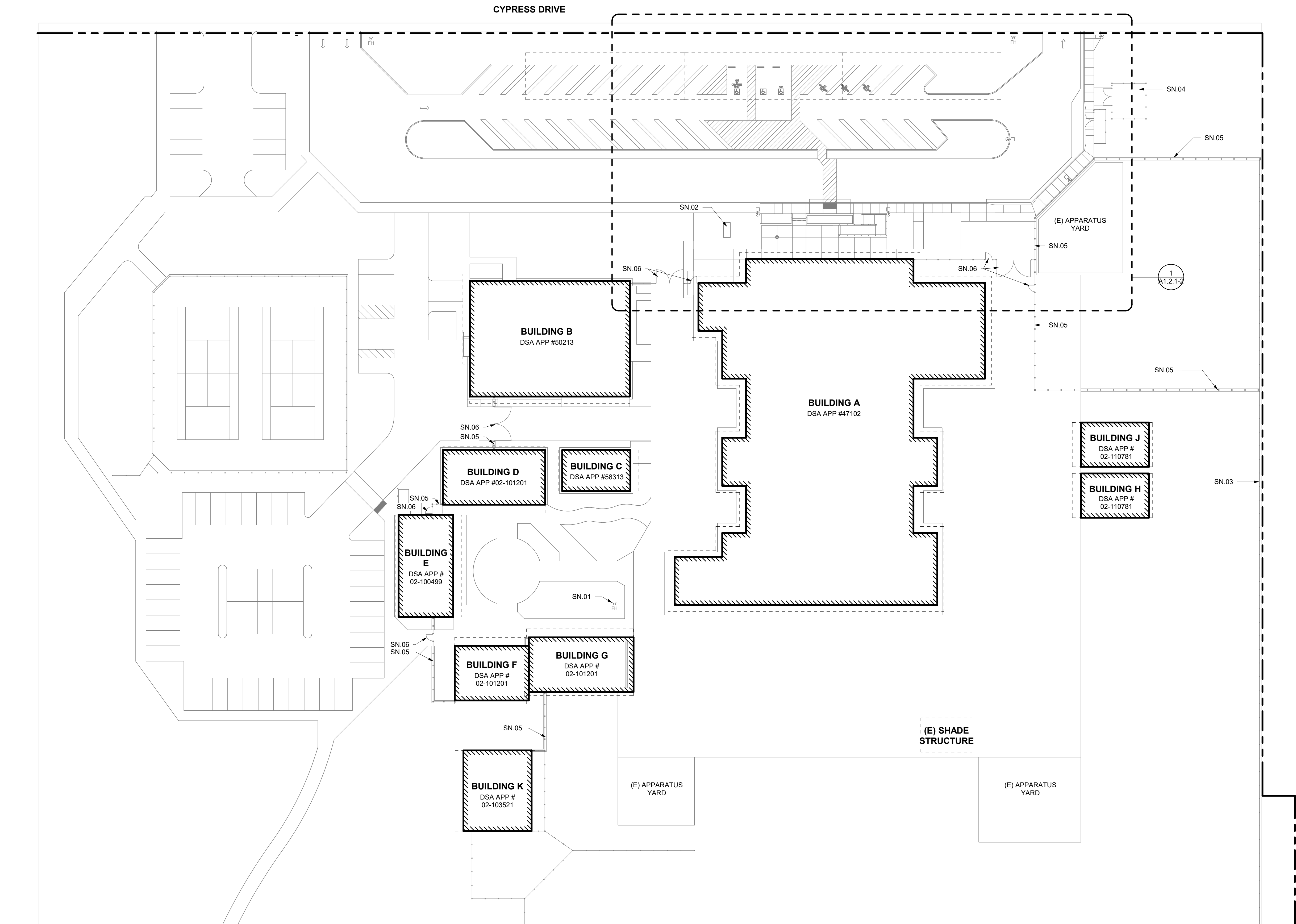
INCREMENT #2

PROJECT NO. 1515  
DATE: 12/21/2022  
SHEET

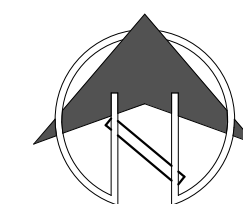
A0.1-2

AD1.01





1 SITE PLAN  
1" = 30'-0"



LEGEND

- PROPERTY LINE
- BUILDING DESIGNATION  
(E) BUILDINGS
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- TRUNCATED DOMES
- LINE OF ROOF OVERHEAD

GENERAL NOTES

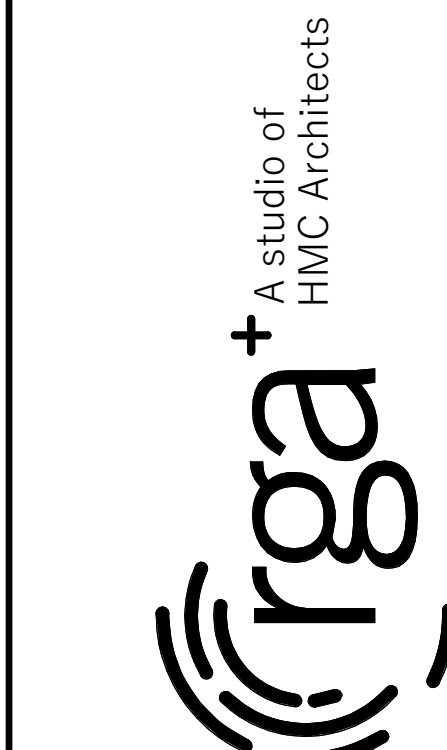
- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO SECURE AREA OF WORK.
- CONTRACTOR SHALL REPLACE, RECONSTRUCT, AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED, OR DESTROYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING, BUT NOT LIMITED TO, HARDSCAPING, SIDEWALKS, IRRIGATION SYSTEMS, LANDSCAPING, LAWNS, STRUCTURES, AND UTILITIES.
- CONTRACTOR TO FIELD VERIFY LOCATION OF (E) UTILITIES AND NOTIFY THE DISTRICT OF ANY CONFLITS WITH PROPOSED WORK TO BE INSTALLED
- GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS WITH PROPER EXIT HARDWARE AND KICK PLATES

SHEET NOTES

- SN.01 (E) FIRE HYDRANT
- SN.02 (E) MARQUEE SIGN TO BE REPLACED IN INC. #2
- SN.03 (E) CHAIN LINK FENCE TO REMAIN
- SN.04 (E) UTILITY YARD
- SN.05 ORNAMENTAL METAL FENCE INSTALLED IN INC. #1
- SN.06 ORNAMENTAL METAL GATE INSTALLED IN INC. #1

BUILDING DESIGNATIONS

- BUILDING A - ADMINISTRATION/LIBRARY/CLASSROOMS
- BUILDING B - MULTIPURPOSE
- BUILDING C - CLASSROOM RELOCATABLE
- BUILDING D - CLASSROOM RELOCATABLE
- BUILDING E - CLASSROOM RELOCATABLE
- BUILDING F - CLASSROOM/RESTROOM/RELOCATABLE
- BUILDING G - CLASSROOM RELOCATABLE
- BUILDING H - CLASSROOM RELOCATABLE
- BUILDING J - CLASSROOM RELOCATABLE
- BUILDING K - DAYCARE RELOCATABLE



VILLALOVO ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision	
ADDENDUM #1	02/03/2023

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OVERALL SITE PLAN

INCREMENT #2

PROJECT NO.	1515
DATE:	12/21/2022
SHEET	A1.1.1-2

AD1.02

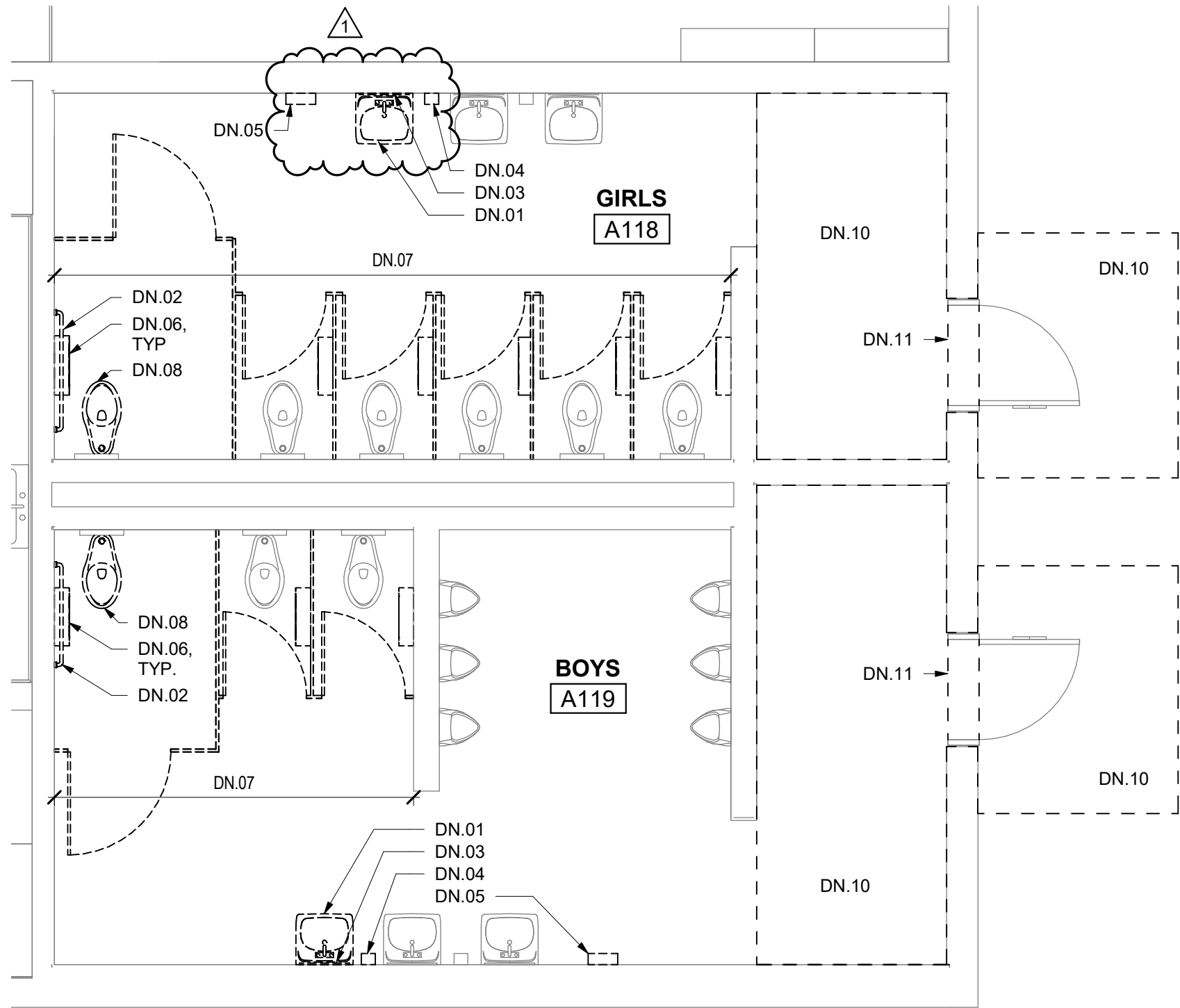


## AD1.03



C:\Users\stafila.kadhim\Documents\1515 Villalovo Mod\_CD-New\_akadhim\7NNWT.rvt

2/2/2023 4:43:55 PM



# 1 BUILDING A - DEMO RESTROOMS A118 AND A119

1/4" = 1'-0"

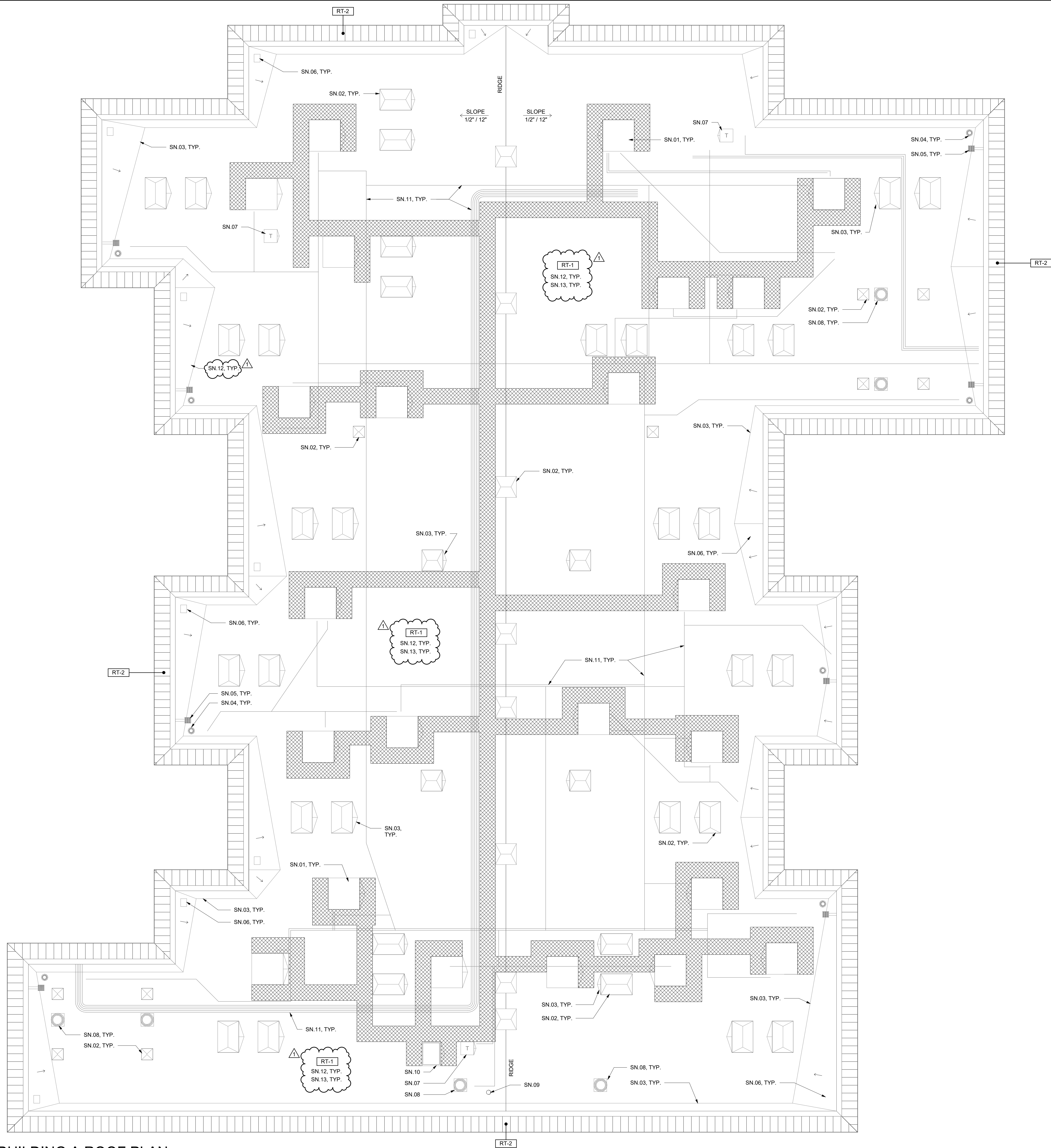


ADDENDUM 1

ALL FEATURES, NOTES AND DIMENSIONS NOT SPECIFICALLY SHOWN OR NOTED AS CHANGED SHALL REMAIN AS SHOWN ON PREVIOUSLY ISSUED DOCUMENTS.



DEMO A118 AND A119 VILLALOVOZ ELEMENTARY SCHOOL - TRACY UNIFIED SCHOOL DISTRICT TRACY, CA DSA APP.02-120733	1/A2.1.3-2	DATE: 01/31/23
		PROJECT NO.: 1515
		SHEET: AD1.04



1 BUILDING A ROOF PLAN  
1/8" = 1'-0"

## LEGEND

ROOFING MEMBRANE WALKWAY

## ROOF TYPES

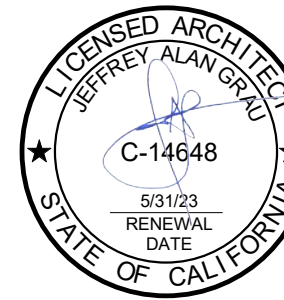
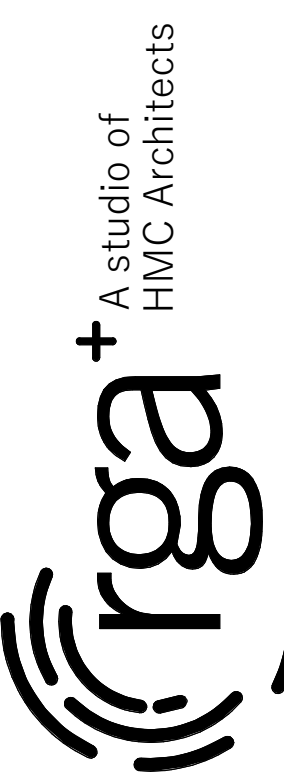
- RT-1 NEW FLUID APPLIED ROOF COATING MEMBRANE  
or EXISTING ROOFING MEMBRANE
- RT-2 NEW METAL ROOFING PANELS or EXISTING  
PLYWOOD SHEATHING - REFER TO DETAIL  
FOR FASTENING INFORMATION
- RT-3 NEW FLUID APPLIED ROOF COATING MEMBRANE  
or EXISTING METAL ROOF

## GENERAL NOTES

- CONDUIT AND EQUIPMENT SHOWN IS DIAGRAMATIC.  
CONTRACTOR TO VERIFY EXACT QUANTITY AND LOCATIONS
- REPAIR DAMAGES TO EXISTING ROOFING MEMBRANE AS  
REQUIRED BY MFR TO PREPARE SURFACE BEFORE APPLICATION  
OF NEW FLUID-APPLIED MEMBRANE

## SHEET NOTES

- SN 01 (E) HVAC UNIT TO REMAIN  
SN 02 (E) SKYLIGHT TO REMAIN  
SN 03 (E) CRICKET TO REMAIN  
SN 04 (E) ROOF DRAIN TO REMAIN  
SN 05 (E) OVERFLOW DRAIN TO REMAIN  
SN 06 (E) ROOF VENT TO REMAIN  
SN 07 (E) TRANSFORMER TO REMAIN  
SN 08 (E) EXHAUST FAN TO REMAIN  
SN 09 (E) WATER HEATER FLUE TO REMAIN  
SN 10 (E) ROOF HATCH TO REMAIN  
SN 11 (E) CONDUIT TO REMAIN  
SN 12 REPAIR (E) STRESSED MEMBRANE INCLUDING ALL  
CRICKET AND VALLEY LOCATIONS AS WELL AS  
THROUGHOUT THE FIELD OF THE ROOF, PER  
SPECIFICATION SECTION 07 5500  
SN 13 REPLACE (E) WOOD BLOCKING AT CONDUIT WITH RUBBER  
SLEEPERS. INCLUDE A SLIP SHEET OF MEMBRANE UNDER  
EACH BLOCK TO PROTECT NEW ROOF COATING



VILLALVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

## Revision

1 ADDENDUM #1 02/03/2023

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ROOF PLAN - BUILDING  
A

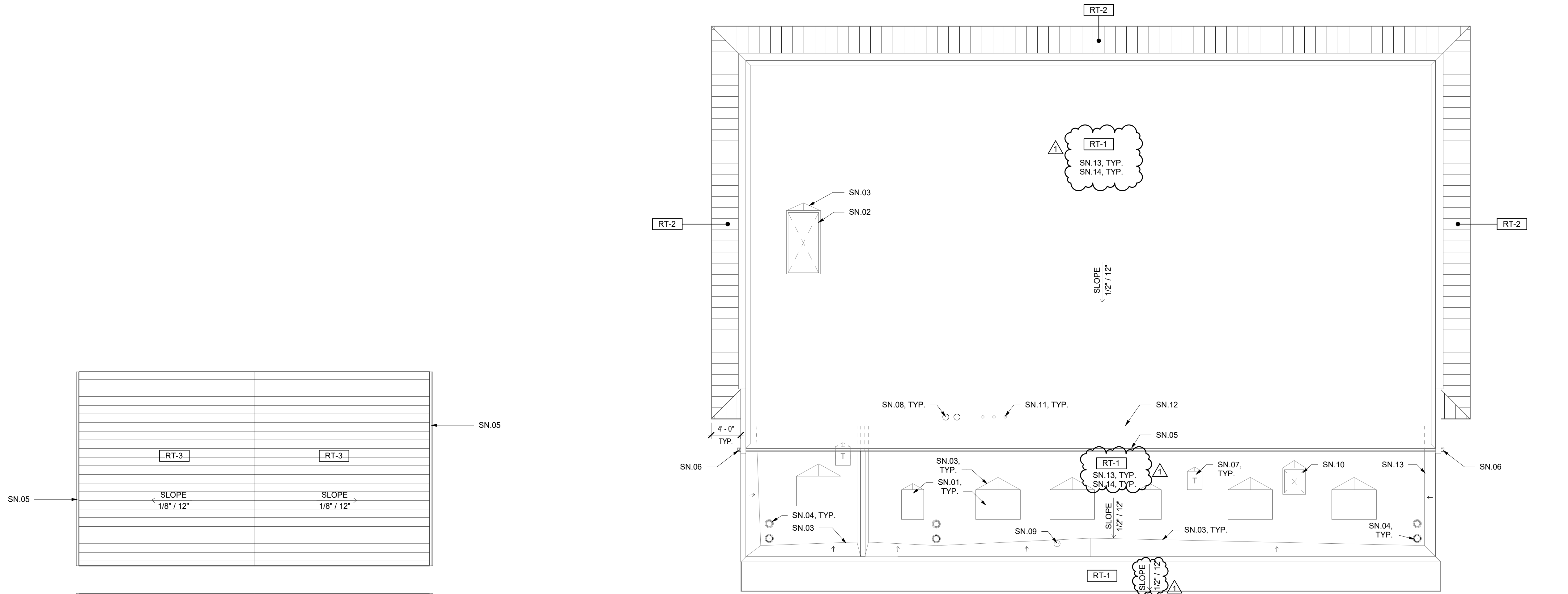
INCREMENT #2

PROJECT NO. 1515  
DATE: 12/21/2022  
SHEET

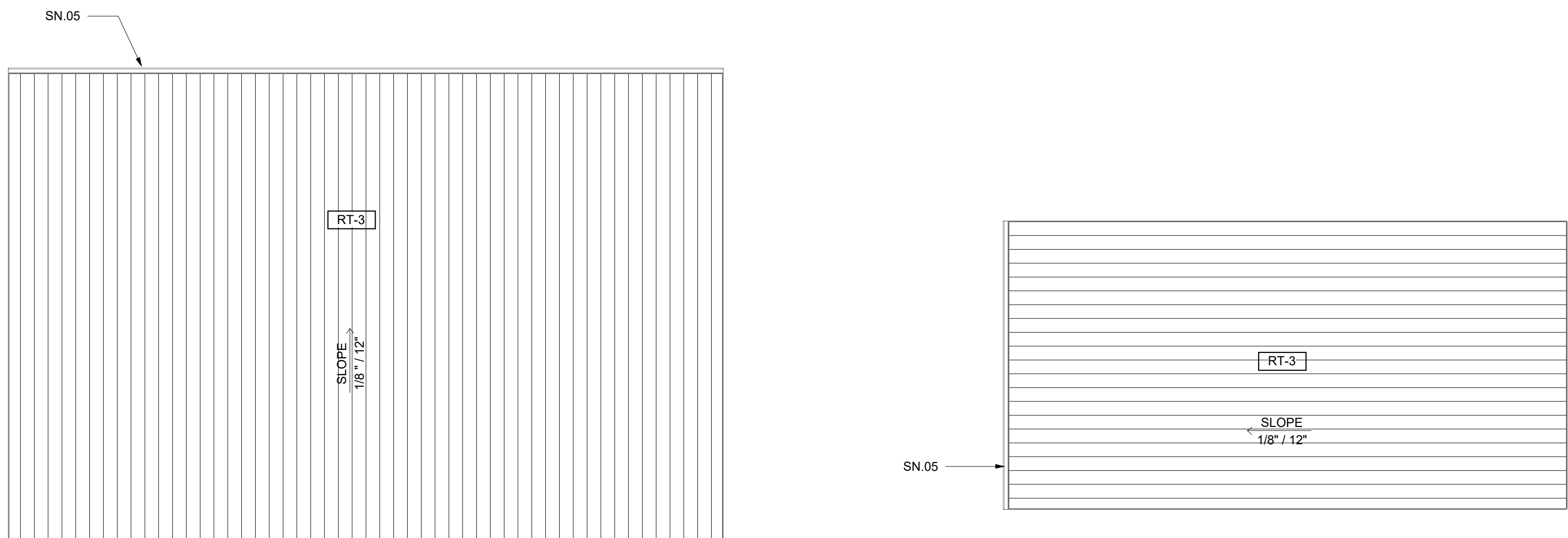
A2.1.8-2

AD1.05



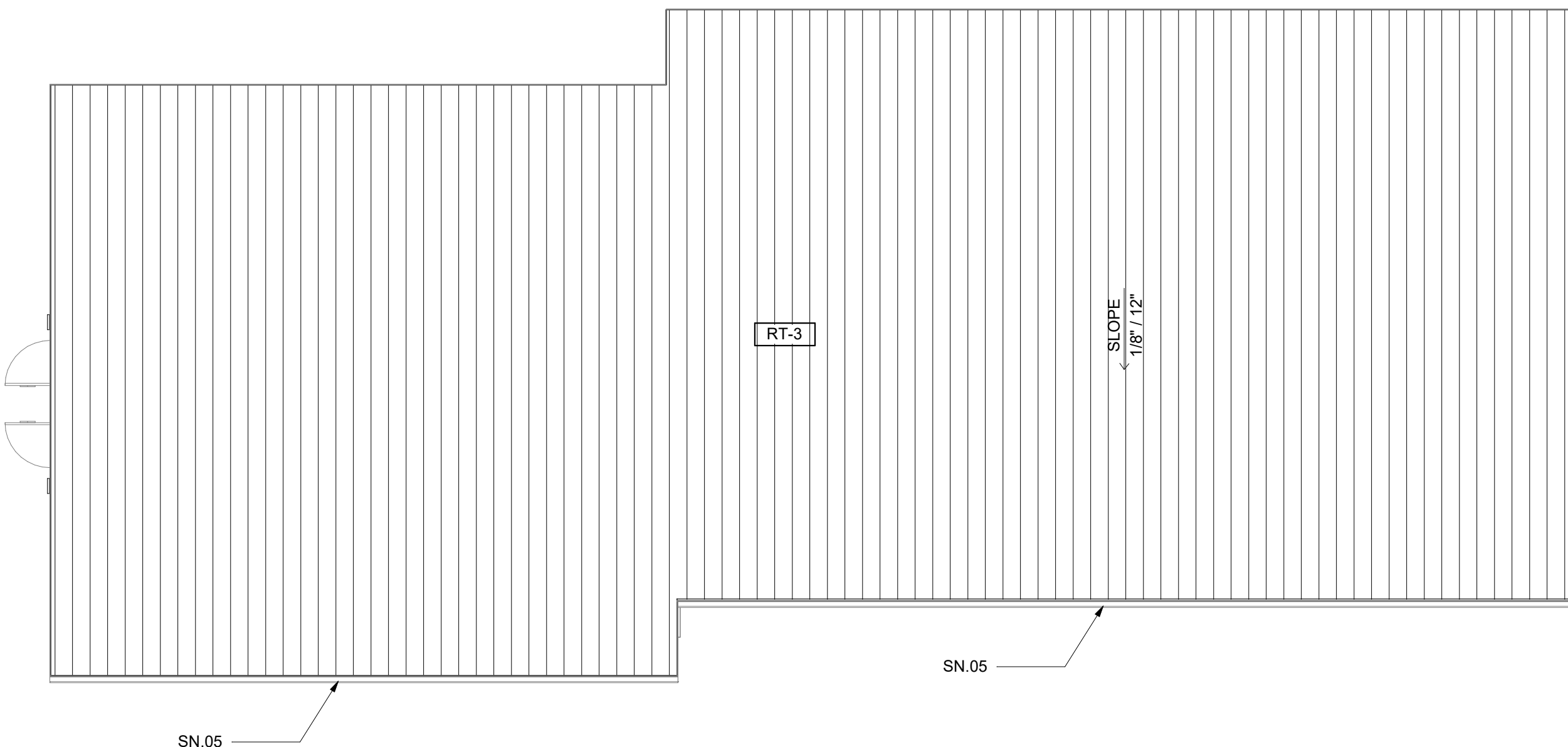


1 BUILDING B ROOF PLAN  
1/8" = 1'-0"

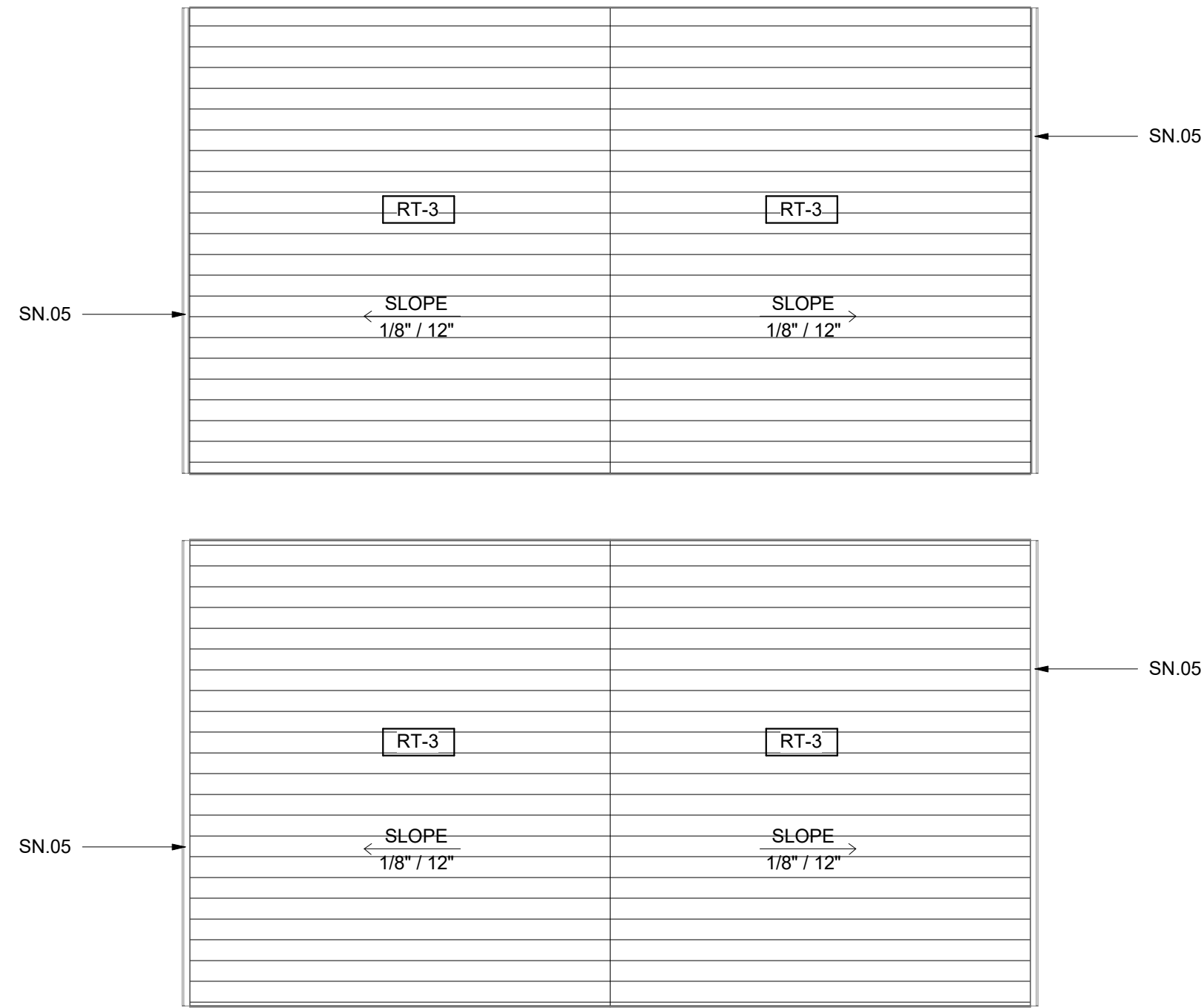


2 BUILDING C ROOF PLAN  
1/8" = 1'-0"

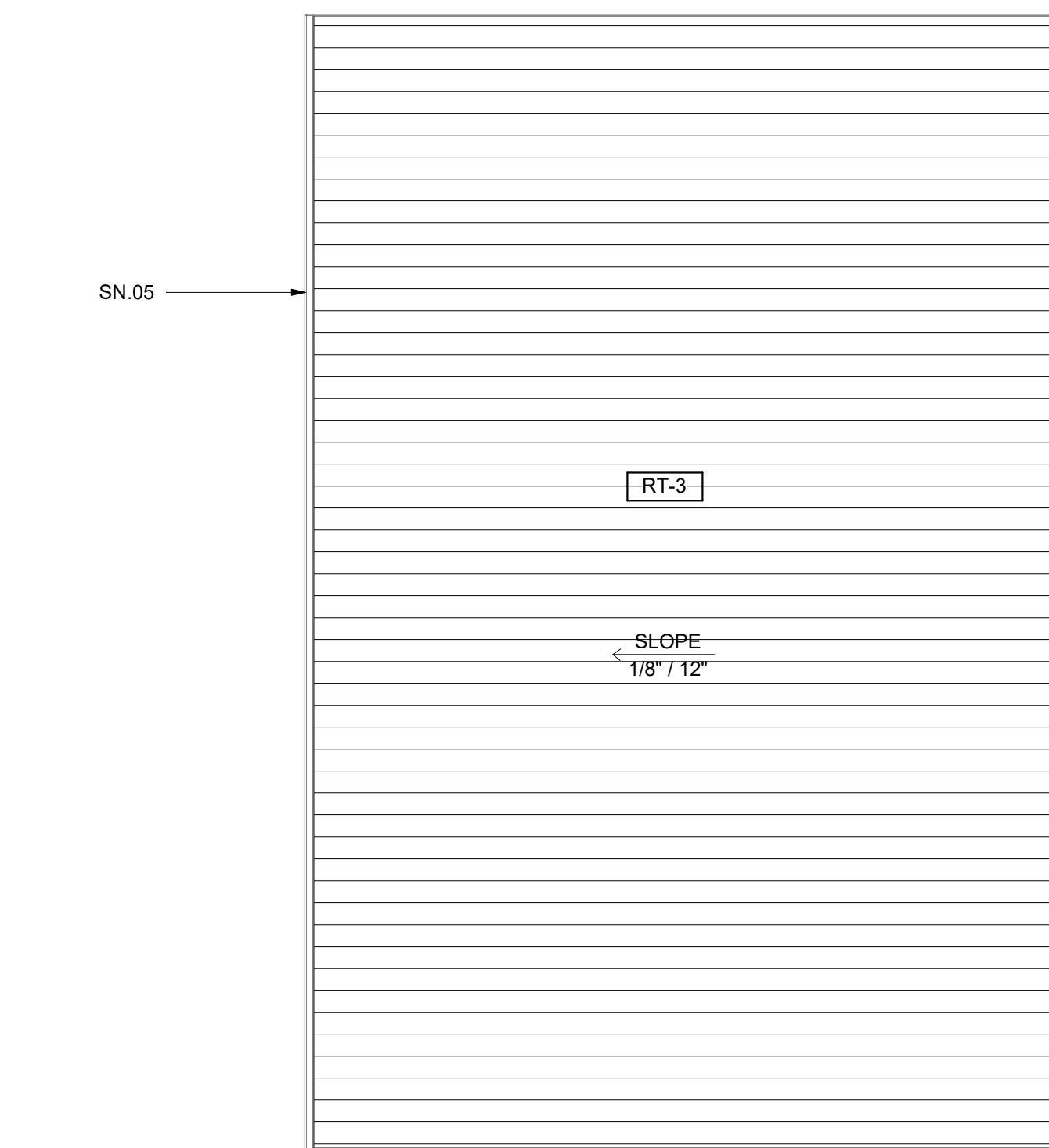
3 BUILDING D ROOF PLAN  
1/8" = 1'-0"



4 BUILDING F AND G ROOF PLAN  
1/8" = 1'-0"



5 BUILDING H AND J ROOF PLAN  
1/8" = 1'-0"



6 BUILDING E ROOF PLAN  
1/8" = 1'-0"

## LEGEND

ROOFING MEMBRANE WALKWAY

## ROOF TYPES

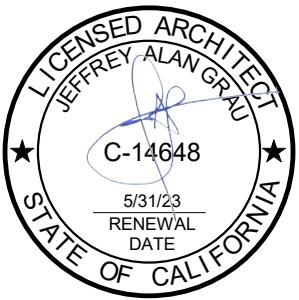
- RT-1 NEW FLUID APPLIED ROOF COATING MEMBRANE  
or EXISTING ROOFING MEMBRANE
- RT-2 NEW METAL ROOFING PANELS or EXISTING  
PLYWOOD SHEATHING - REFER TO DETAIL  
FOR FASTENING INFORMATION
- RT-3 NEW FLUID APPLIED ROOF COATING MEMBRANE  
or EXISTING METAL ROOF

## GENERAL NOTES

- CONDUIT AND EQUIPMENT SHOWN IS DIAGRAMATIC.  
CONTRACTOR TO VERIFY EXACT QUANTITY AND LOCATIONS
- REPAIR DAMAGES TO EXISTING ROOFING MEMBRANE AS  
REQUIRED BY MFR TO PREPARE SURFACE BEFORE APPLICATION  
OF NEW FLUID-APPLIED MEMBRANE

## SHEET NOTES

- SN.01 (E) HVAC UNIT TO REMAIN
- SN.02 (E) SMOKE HATCH TO REMAIN
- SN.03 (E) CRICKET TO REMAIN
- SN.04 (E) ROOF DRAIN TO REMAIN
- SN.05 (E) GUTTER TO REMAIN
- SN.06 (E) SCUPPER AND DOWNSPOUT TO REMAIN
- SN.07 (E) TRANSFORMER TO REMAIN
- SN.08 (E) EXHAUST FAN TO REMAIN
- SN.09 (E) WATER HEATER FLUE TO REMAIN
- SN.10 (E) ROOF HATCH TO REMAIN
- SN.11 (E) VENT TO REMAIN
- SN.12 LINE OF ROOF BELOW
- SN.13 REPAIR (E) STRESSED MEMBRANE INCLUDING ALL  
CRICKET AND VALLEY LOCATIONS AS WELL AS  
THROUGHOUT THE FIELD OF THE ROOF, PER  
SPECIFICATION SECTION 07 5020
- SN.14 REPLACE (E) WOOD BLOCKING AT CONDUIT WITH RUBBER  
SLEEPERS. INCLUDE A SLIP SHEET OF MEMBRANE UNDER  
EACH BLOCK TO PROTECT NEW ROOF COATING



VILLALVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision	
1	ADDENDUM #1

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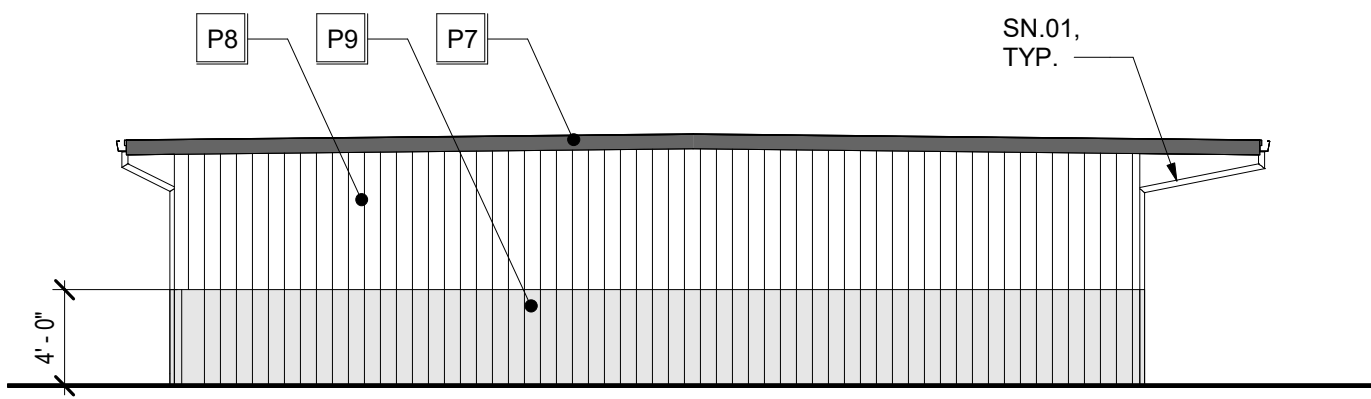
ROOF PLANS -  
BUILDINGS B  
THROUGH J

INCREMENT #2

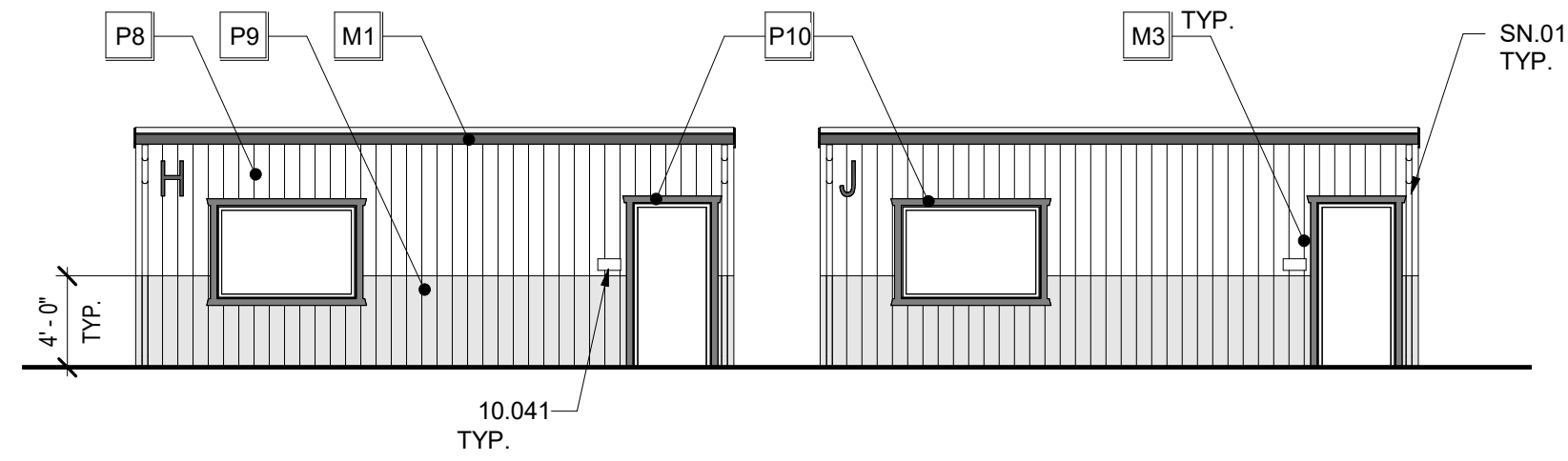
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DATE: 12/21/2022  
SHEET

A2.1.9-2

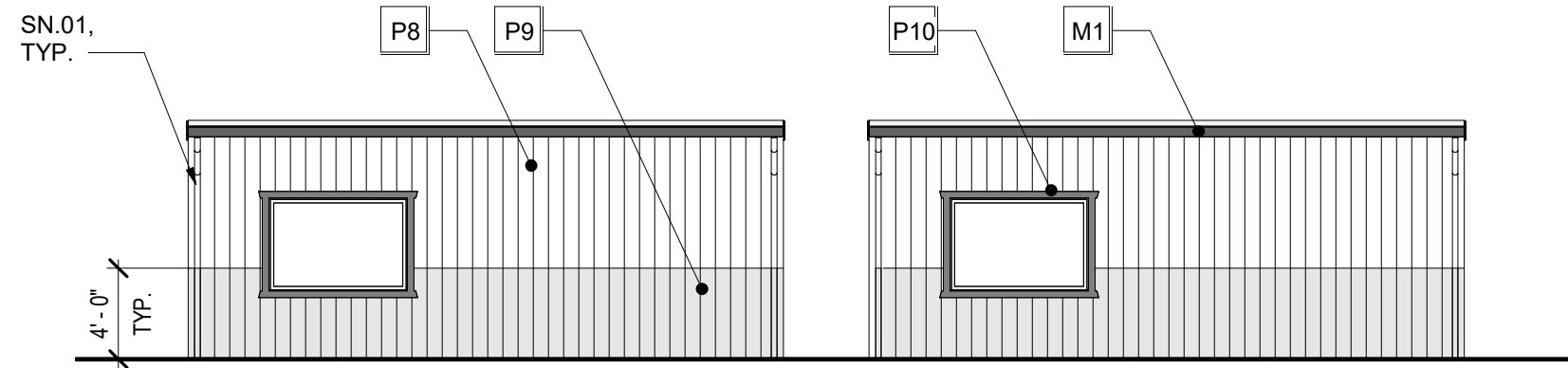
AD1.06



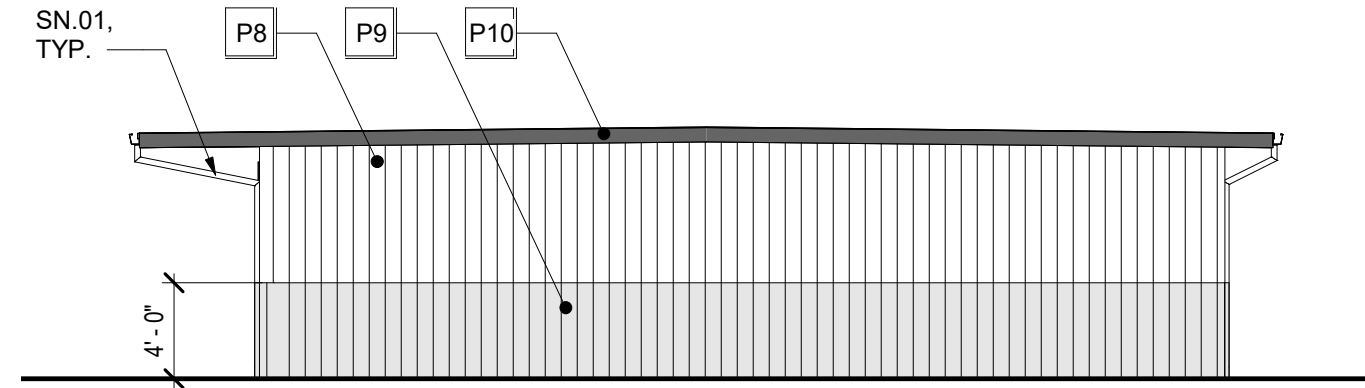
5 BUILDING H - NORTH ELEVATION  
1/8" = 1'-0"



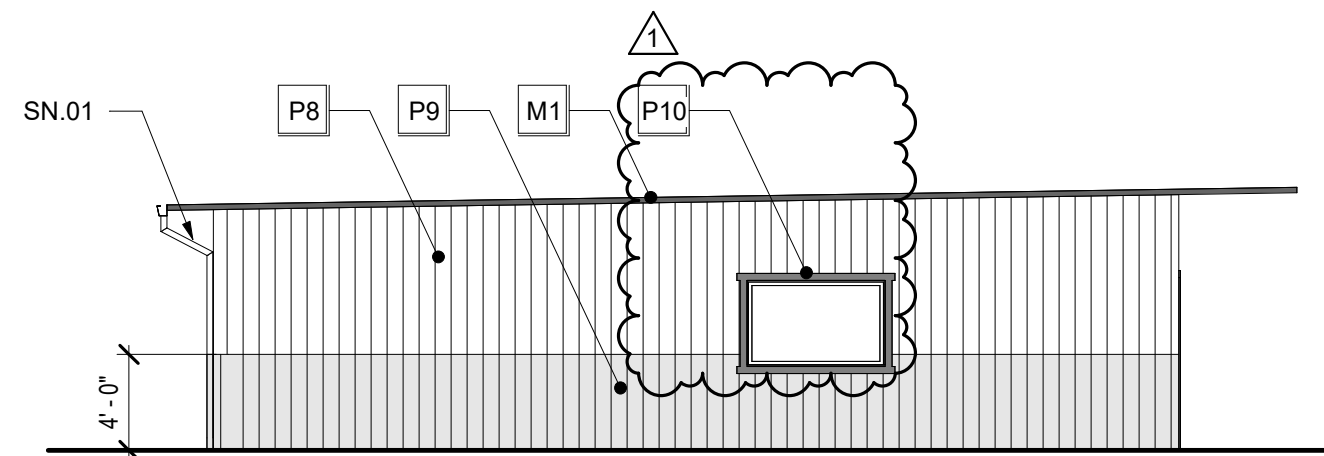
6 BUILDING H AND J - WEST ELEVATION  
1/8" = 1'-0"



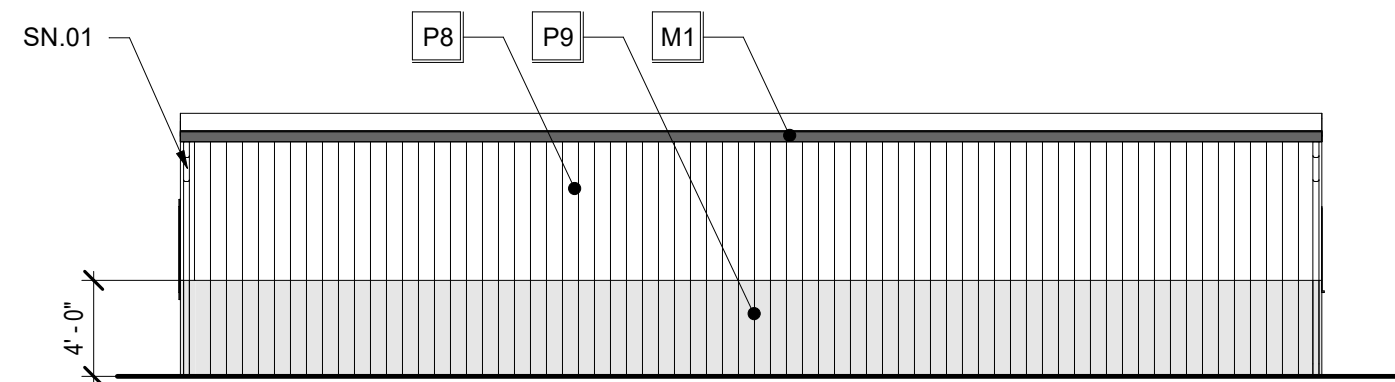
7 BUILDINGS H AND J - EAST ELEVATION  
1/8" = 1'-0"



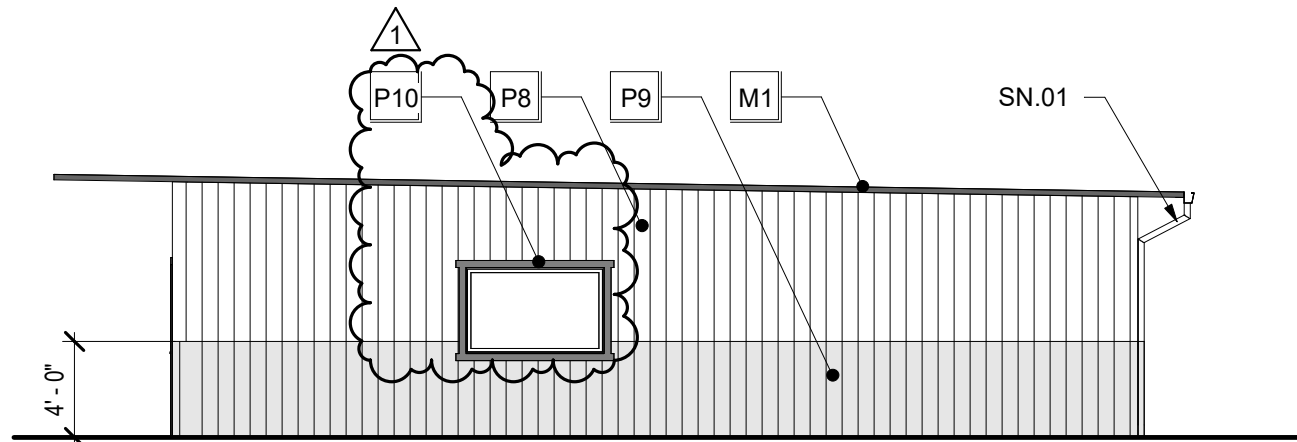
8 BUILDING J - SOUTH ELEVATION  
1/8" = 1'-0"



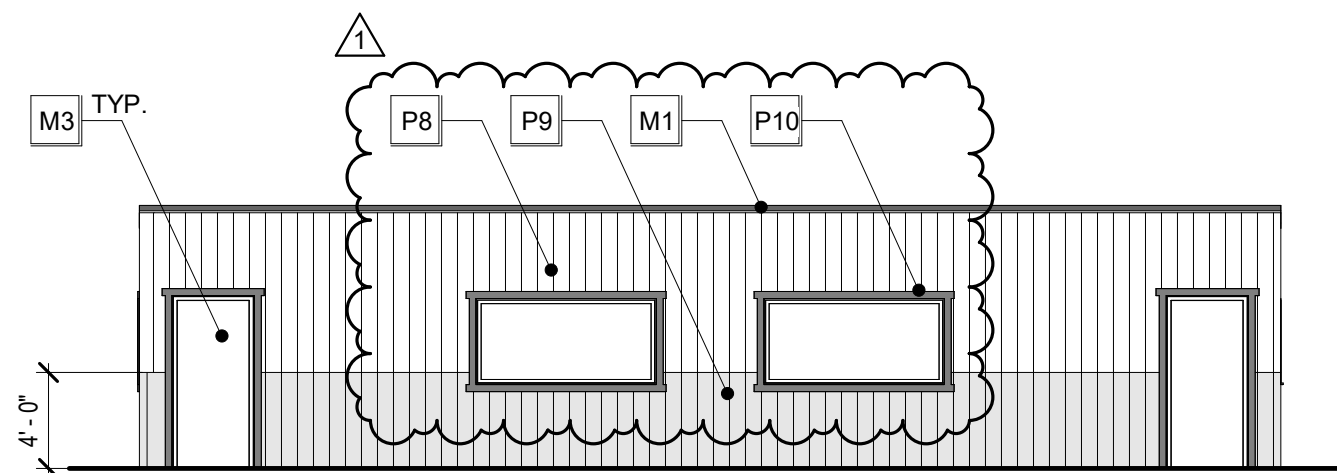
1 BUILDING K - NORTH ELEVATION  
1/8" = 1'-0"



2 BUILDING K - EAST ELEVATION  
1/8" = 1'-0"



3 BUILDING K - SOUTH ELEVATION  
1/8" = 1'-0"



4 BUILDING K - WEST ELEVATION  
1/8" = 1'-0"

## EXTERIOR COLOR SCHEDULE

MATERIAL	COLOR
P1 CONCRETE	PAINT COLOR 1 (1) (2)
P2 CONCRETE	PAINT COLOR 2 (1) (2)
P3 CONCRETE	PAINT COLOR 3 (1) (2)
P4 LATH & PLASTER	PAINT COLOR 1 (1) (2)
P5 LATH & PLASTER	PAINT COLOR 2 (1) (2)
P6 LATH & PLASTER	PAINT COLOR 4 (1) (2)
P7 WOOD FASCIA	PAINT COLOR 5 (1) (2)
P8 VERTICAL SIDING	PAINT COLOR 1 (1) (2)
P9 VERTICAL SIDING	PAINT COLOR 2 (1) (2)
P10 WOOD TRIM	PAINT COLOR 6 (1) (2)
M1 METAL	PAINT COLOR 5 (1) (2)
M2 METAL	PAINT COLOR 4 (1) (2)
M3 METAL	PAINT COLOR 6 (1) (2)
M4 METAL ROOF	PREFINISHED (1)

- (1) CUSTOM COLORS TO BE SUBMITTED PER SPECIFICATIONS.  
(2) COLOR BANDS ARE SHOWN ON THE FOREGROUND ELEVATIONS ONLY AND ARE INTENDED TO CONTINUE AROUND ENTIRE BUILDING UNLESS SPECIFICALLY SHOWN DIFFERENTLY ON THE ELEVATION. (IE BUILDING ENTRANCES AND COVERED WALKWAY COLUMNS)

## GENERAL NOTES

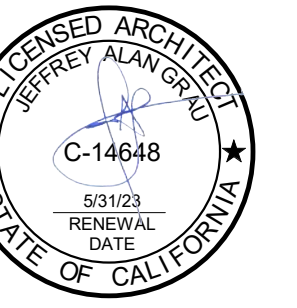
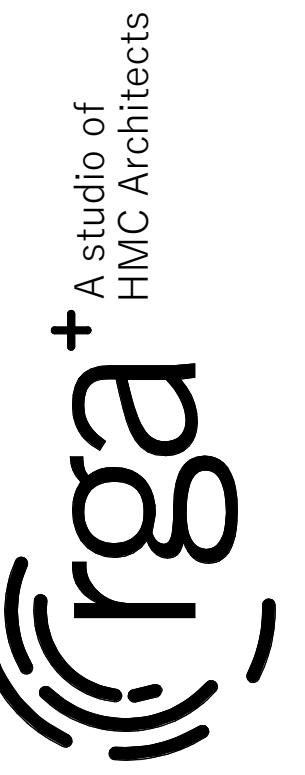
- TYPICAL NOTES ON ONE ELEVATION APPLY TO ALL ELEVATIONS.
- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2

## SHEET NOTES

SN.01 (E) DOWNSPOUT, PAINT TO MATCH WALL BEHIND

## KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION



VILLALVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision  
1 ADDENDUM #1 02/03/2023

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OVERALL EXTERIOR  
ELEVATIONS -  
BUILDINGS H, J, & K

INCREMENT #2

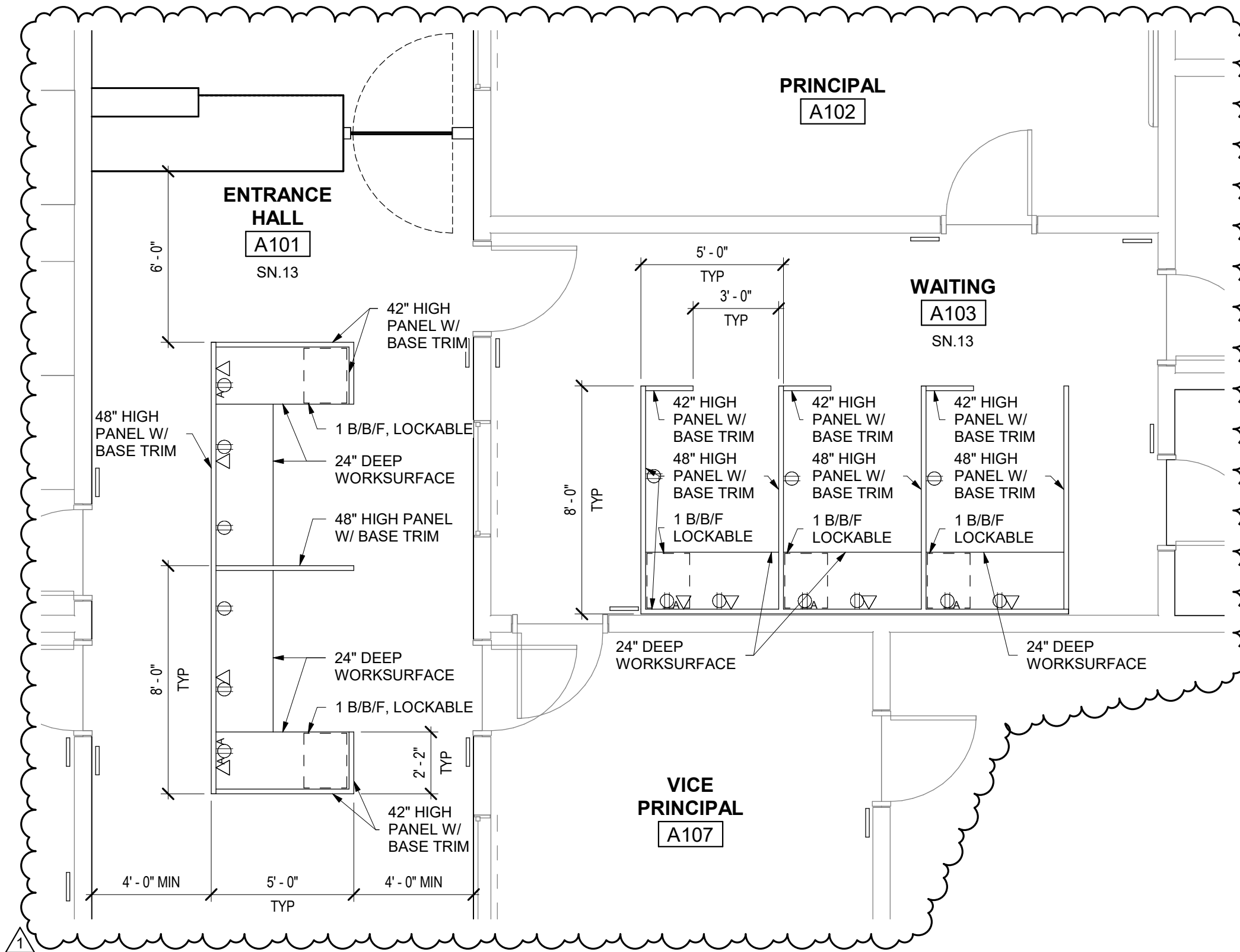
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DATE: 12/21/2022  
SHEET

A4.1.4-2

AD1.07

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## SHEET NOTES

- SN.01 (E) WOOD TRIM TO BE PAINTED
- SN.02 ACCENT COLOR 1
- SN.03 (E) CLOCK/SPEAKER TO REMAIN
- SN.04 (E) CASEWORK TO REMAIN
- SN.05 (E) PAPER TOWEL DISPENSER TO REMAIN
- SN.06 (E) RUBBER BASE TO REMAIN
- SN.07 (E) MARKERBOARD TO REMAIN
- SN.08 (E) DRINKING FOUNTAIN TO REMAIN
- SN.09 ACCENT COLOR 2
- SN.10 BEHIND MARKERBOARDS
- SN.11 4' - 0" X 7' - 0", TYP OF 3
- SN.12 2 FINISHED END PANELS

SN.13 COORDINATE FURNITURE SYSTEM WHIP LOCATION WITH ELECTRICAL & FURNITURE VENDOR

## LEGEND

- ⊕<sup>A</sup> DUPLEX OUTLET ABOVE COUNTER
- ⊕ DUPLEX OUTLET
- ▽ DATA JACK
- ▽<sup>A</sup> DATA JACK ABOVE COUNTER



ADDENDUM 1

1

## ENLARGED FURNITURE FLOOR PLAN

1/4" = 1'-0"

ALL FEATURES, NOTES AND DIMENSIONS NOT SPECIFICALLY SHOWN OR NOTED AS CHANGED SHALL REMAIN AS SHOWN ON PREVIOUSLY ISSUED DOCUMENTS.



### FLOOR PLAN

1/A5.1.4-2

VILLALOVOZ ELEMENTARY SCHOOL -

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA  
DSA APP.02-120733

DATE: 02/03/2022

PROJECT NO.: 1515

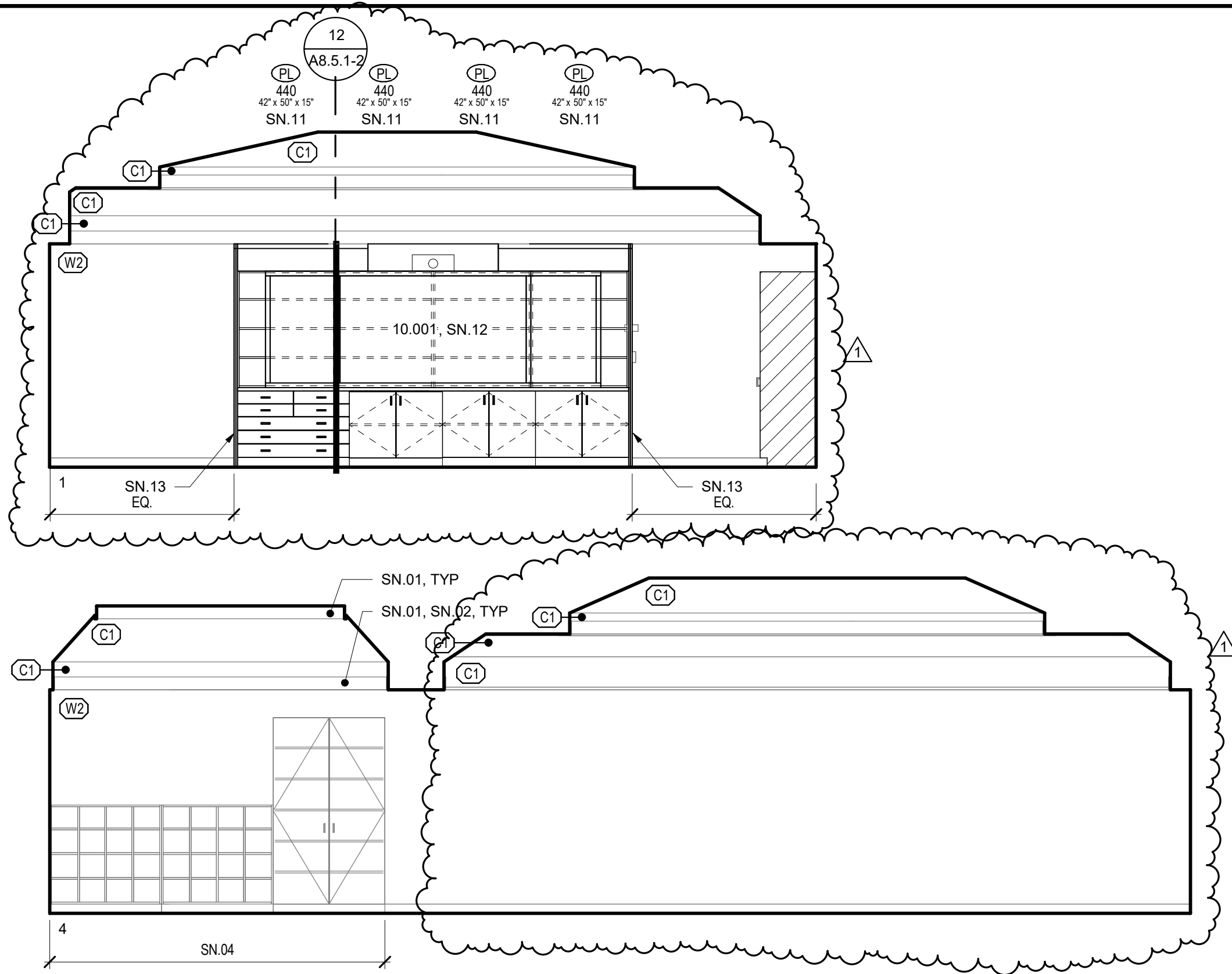
SHEET:

AD1.08



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## A132 CLASSROOM/ A133 ALCOVE

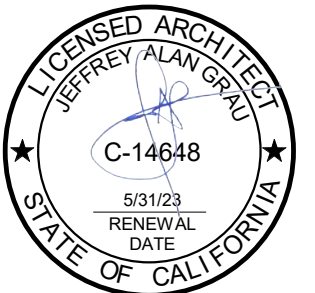
1/4" = 1'-0"

ALL FEATURES, NOTES AND DIMENSIONS NOT SPECIFICALLY SHOWN OR NOTED  
AS CHANGED SHALL REMAIN AS SHOWN ON PREVIOUSLY ISSUED DOCUMENTS.

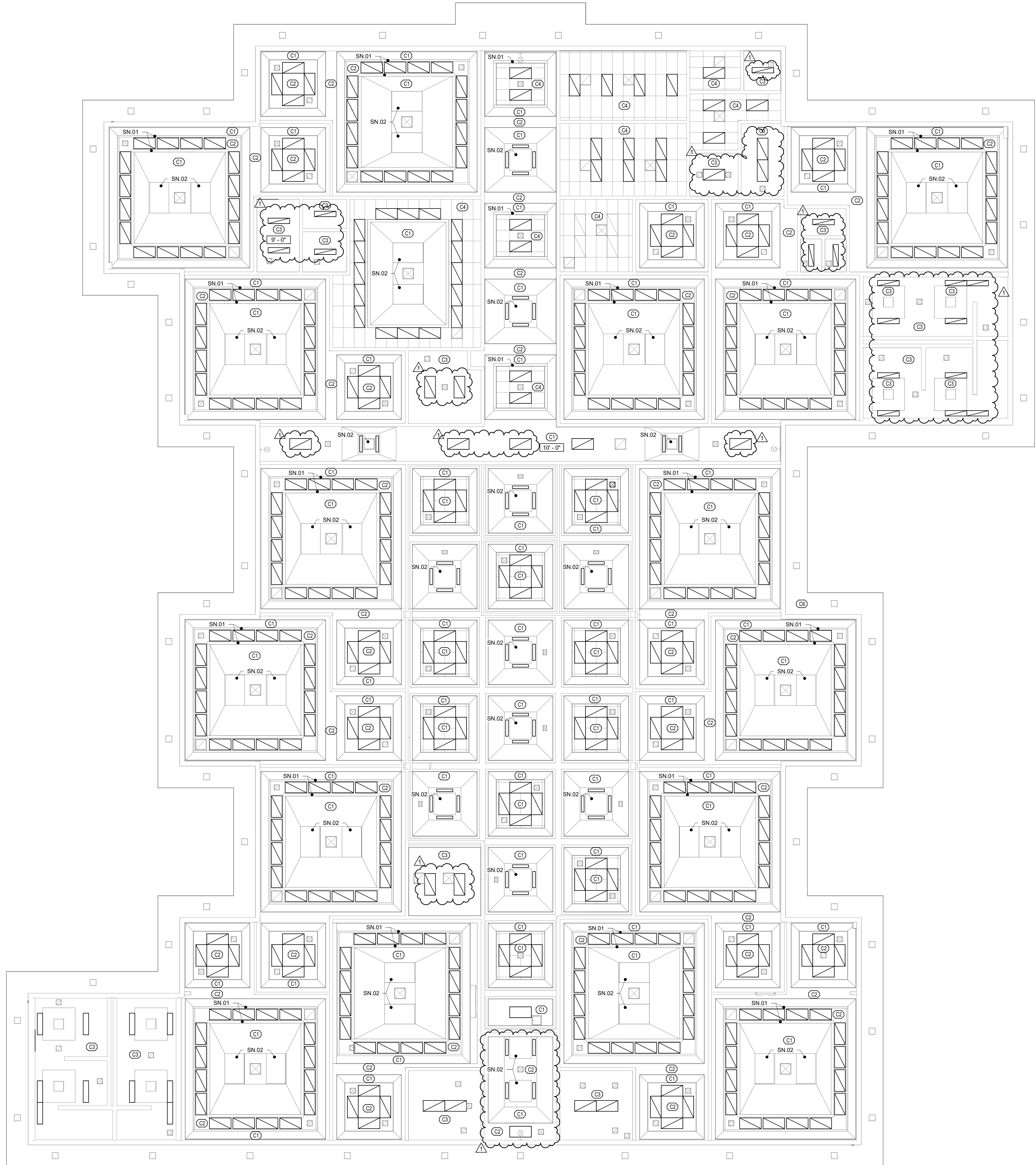


**INTERIOR ELEVATIONS A5.1.7-2**  
VILLALOVOZ ELEMENTARY SCHOOL -  
TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA  
DSA APP.02-120733

DATE: 01/31/23  
PROJECT NO.: 1515  
SHEET:  
**AD1.09**



ADDENDUM 1



1 BUILDING A - REFLECTED CEILING PLAN  
1/8" = 1'-0"

- LEGEND**
- RECESSED LIGHT FIXTURE
  - RECESSED LIGHT FIXTURE
  - RECESSED LIGHT FIXTURE
  - (E) SOFFIT LIGHT TO REMAIN
  - SURFACE MOUNTED LIGHT FIXTURE
  - OR
  - SURFACE MOUNTED LIGHT FIXTURE
  - SURFACE MOUNTED LIGHT FIXTURE
  - SUPPLY AIR REGISTER
  - RETURN AIR REGISTER
  - EXHAUST AIR REGISTER
  - EXIT SIGN, SEE ELECTRICAL
  - WALL MOUNTED
  - CEILING MOUNTED

**GENERAL NOTES**

1. NEW LIGHT FIXTURES ARE ADD ALTERNATE #1

**SHEET NOTES**

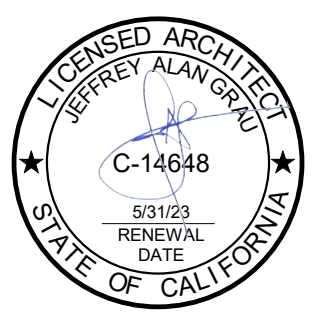
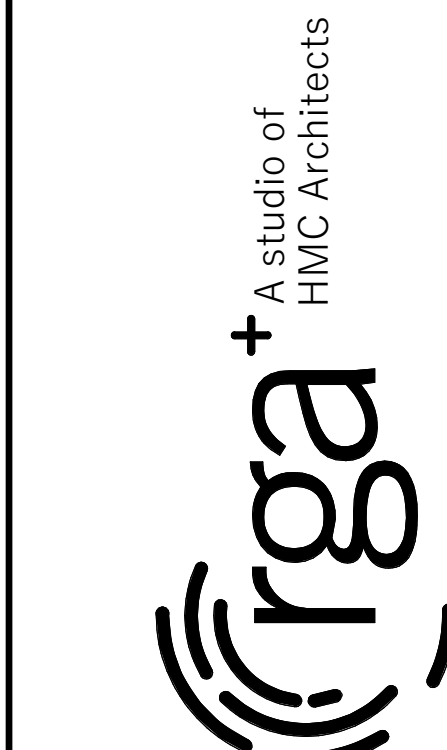
- SN.01 (E) WOOD TRIM TO BE PAINTED TO MATCH CEILING  
SN.02 (E) SKYLIGHT

**EXTERIOR SOFFIT FINISH SCHEDULE**

	MATERIAL	FINISH
P1	LATH & PLASTER	PAINT COLOR 1

**FINISHES**

- CEILING**
- C1 (E) ACOUSTICAL SPRAY ON: PAINTED
  - C2 (E) VINYL WALLCOVERING: PAINTED
  - C3 (E) GYPSUM WALLBOARD: PAINTED
  - C4 (E) SUSPENDED ACOUSTICAL CEILING
  - C5 (E) ACOUSTICAL CEILING TILE: PAINTED
  - C6 (E) PLYWOOD: PAINTED
  - C7 (E) LATH AND PLASTER: PAINTED



VILLOVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

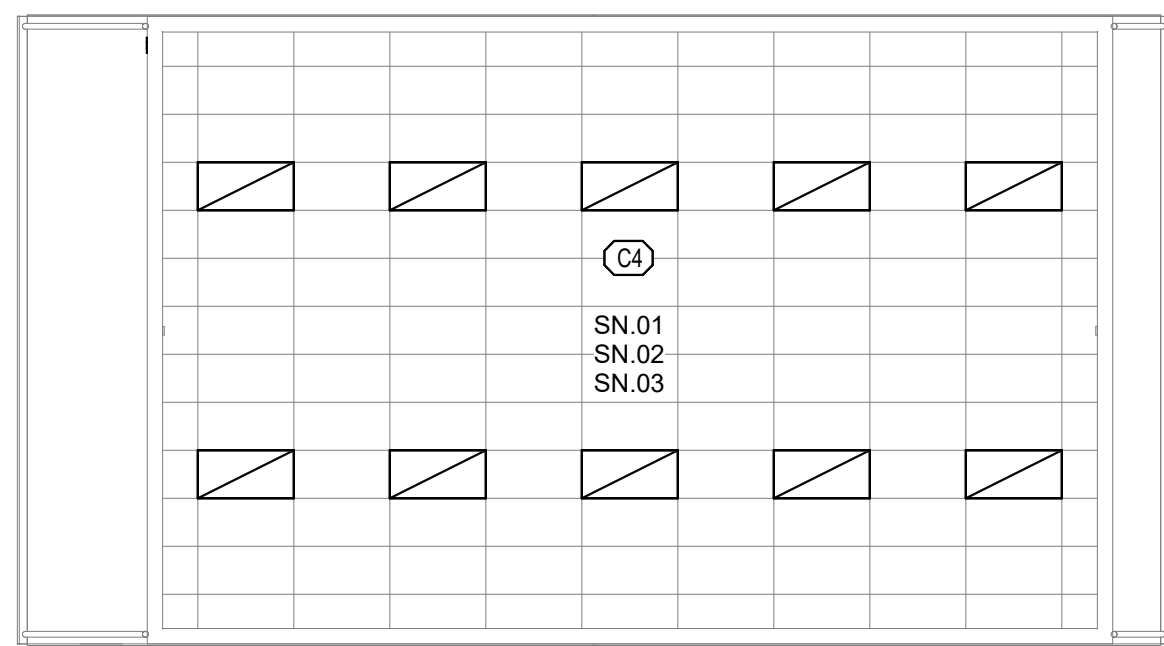
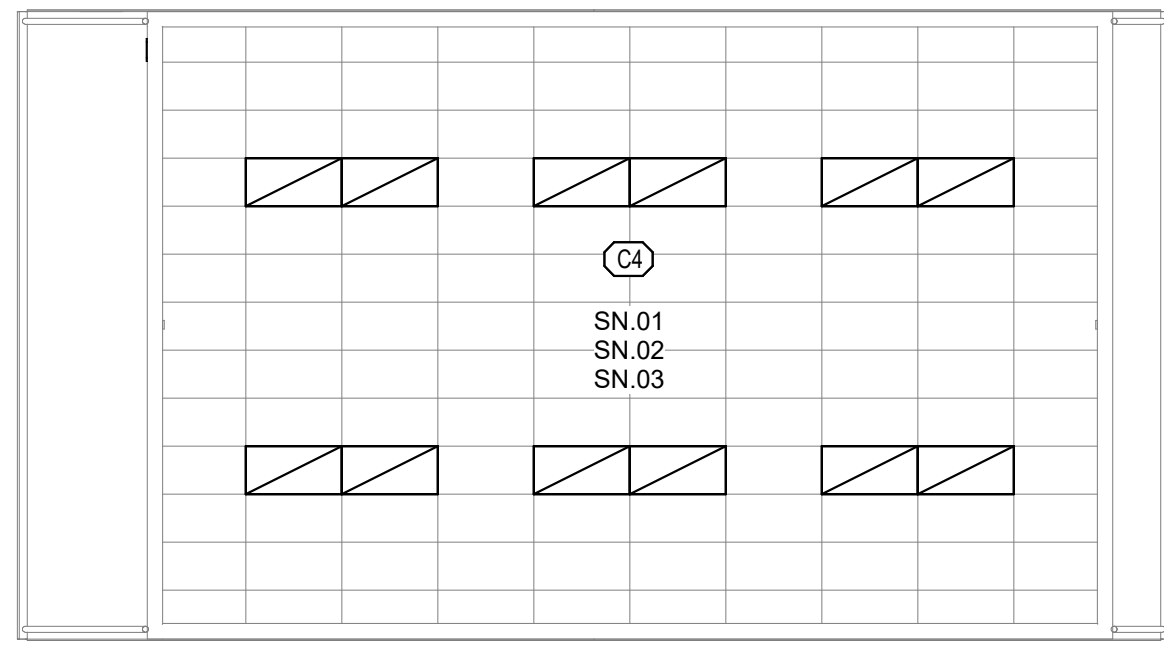
Revision
1 ADDENDUM #1 02/03/2023

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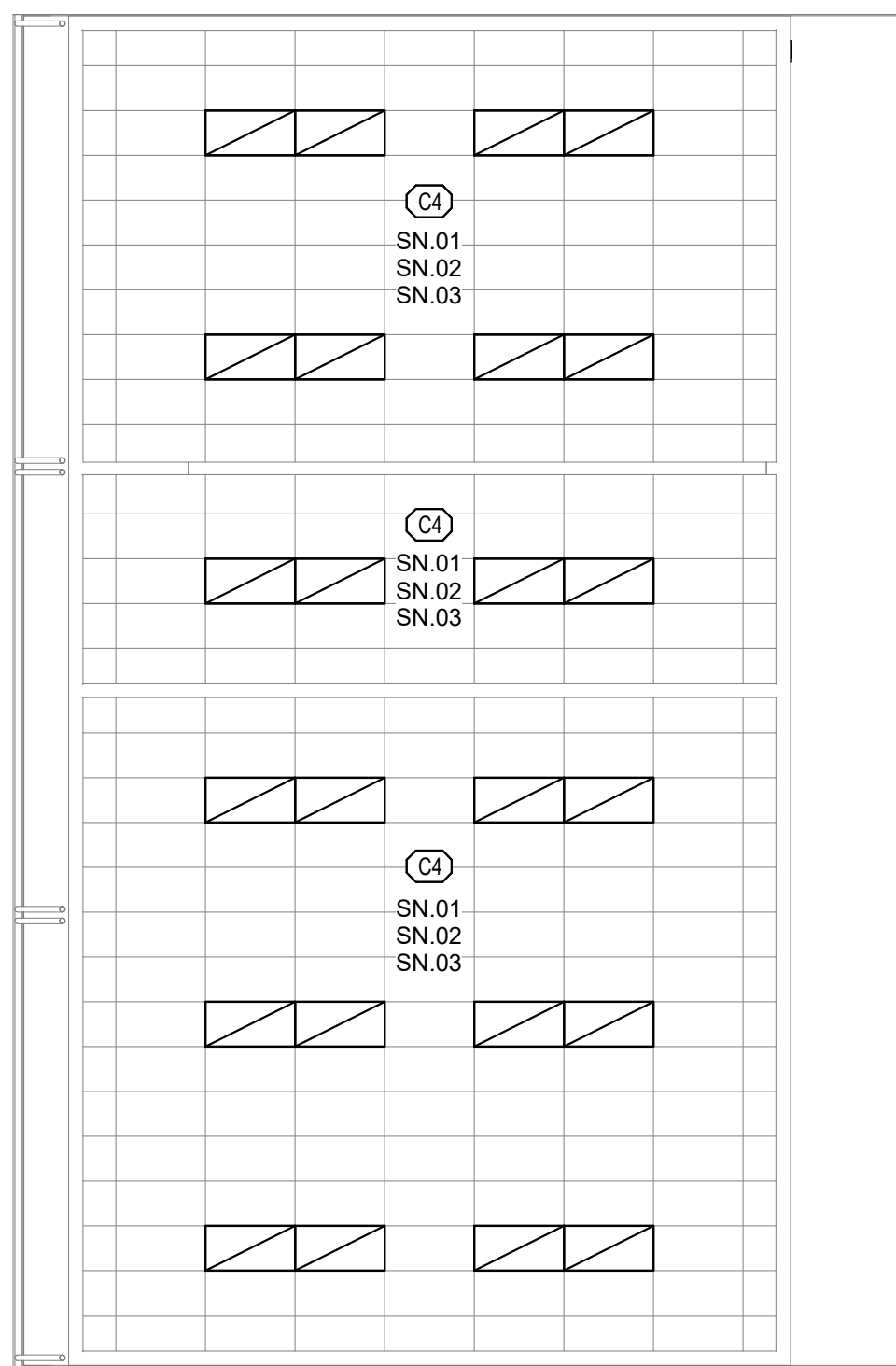
**REFLECTED CEILING  
PLAN - BUILDING A**

**INCREMENT #2**

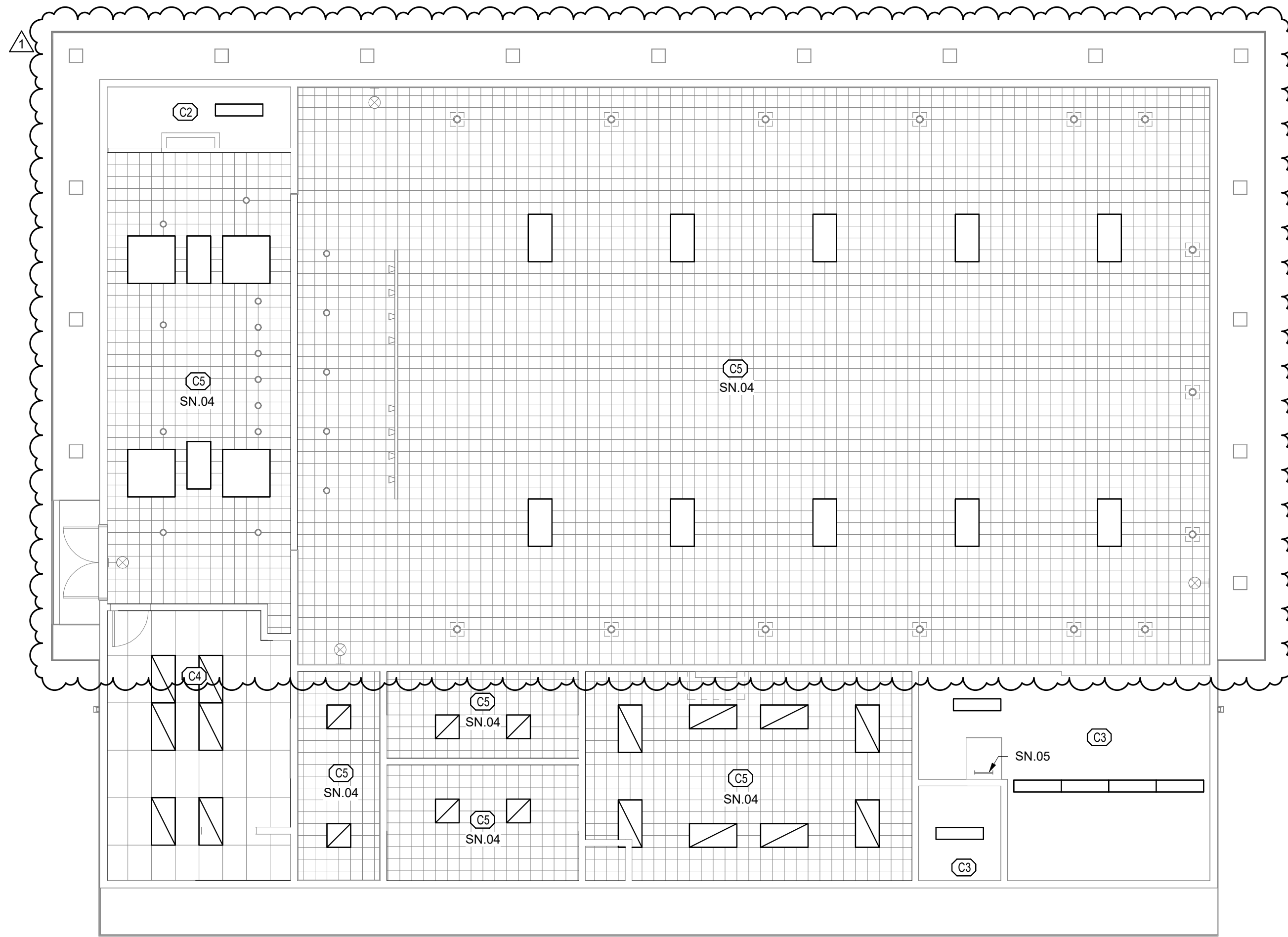
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DATE:	12/21/2022
SHEET	A6.2.1-2



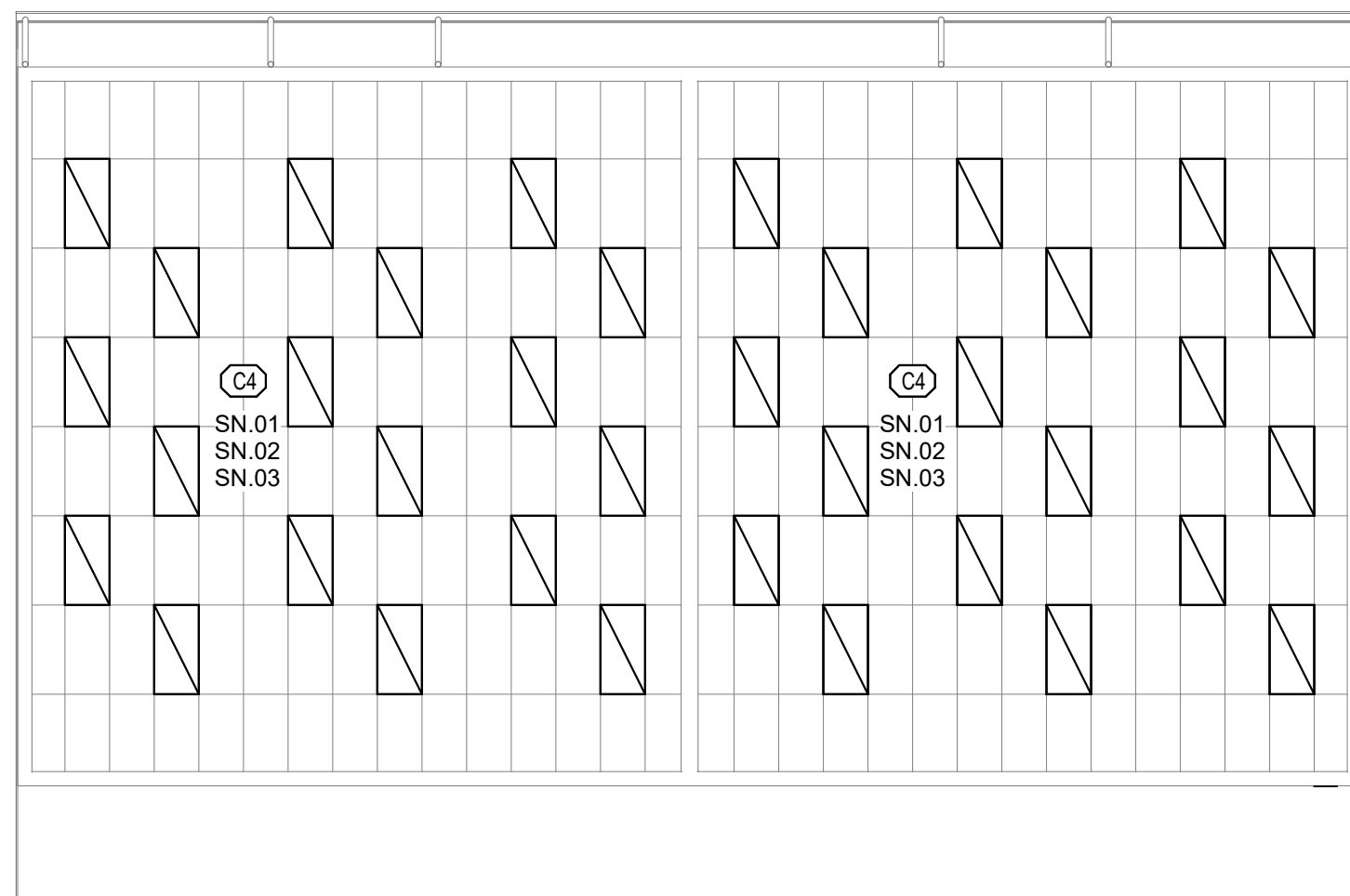
5 BUILDING H AND J - REFLECTED CEILING PLAN  
1/8" = 1'-0"



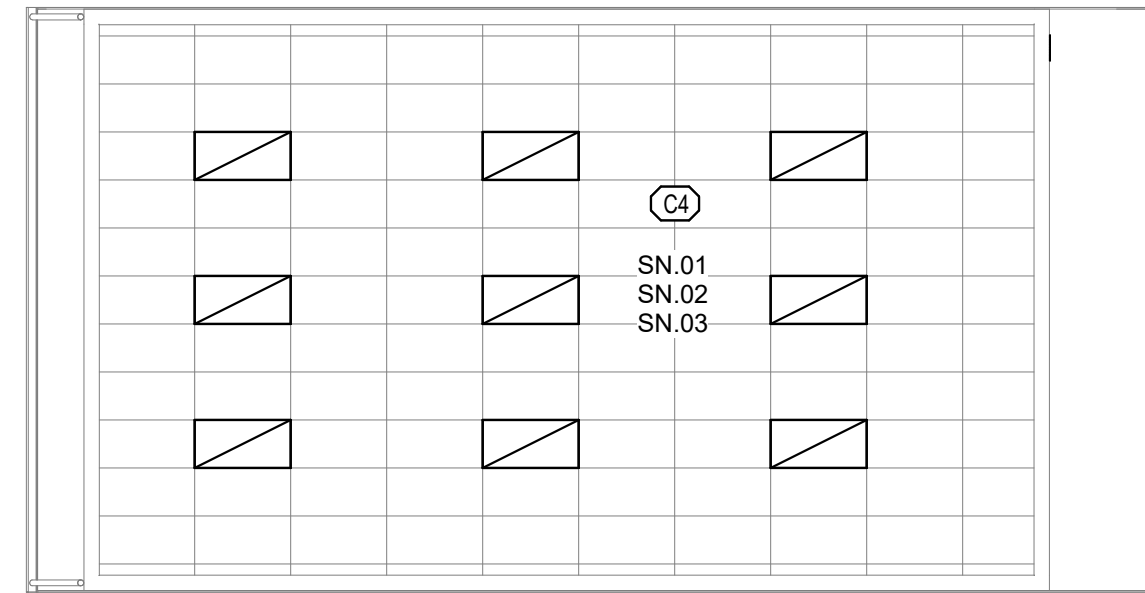
6 BUILDING E - REFLECTED CEILING PLAN  
1/8" = 1'-0"



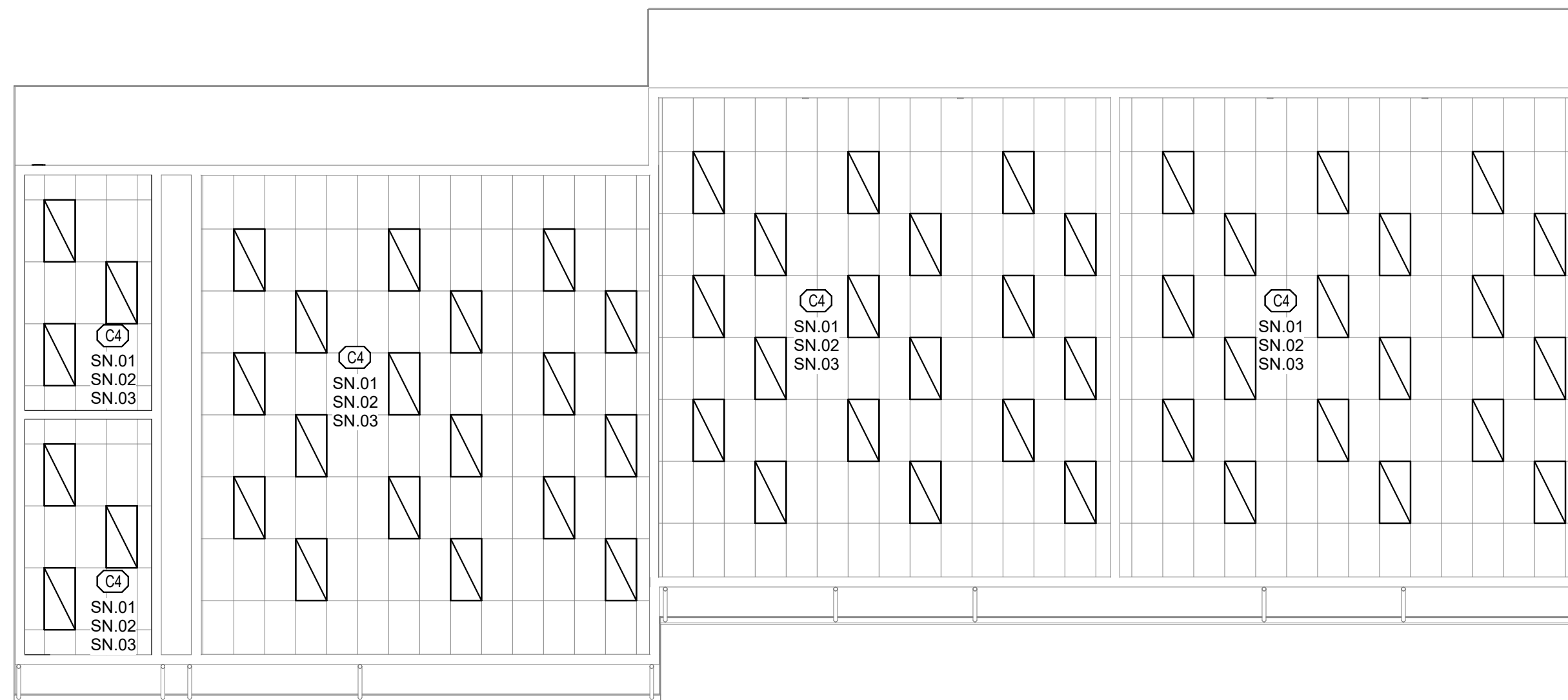
1 BUILDING B - REFLECTED CEILING PLAN  
1/8" = 1'-0"



3 BUILDING D - REFLECTED CEILING PLAN  
1/8" = 1'-0"



2 BUILDING C - REFLECTED CEILING PLAN  
1/8" = 1'-0"



4 BUILDING F AND G - REFLECTED CEILING PLAN  
1/8" = 1'-0"

## LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- (E) SOFFIT LIGHT TO REMAIN
- SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
- WALL MOUNTED
- CEILING MOUNTED

## GENERAL NOTES

- FOR SUSPENDED ACOUSTICAL PANEL CEILING ATTACHMENT DETAILS, SEE A0.4

## SHEET NOTES

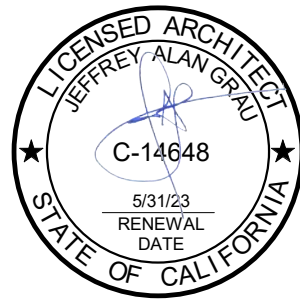
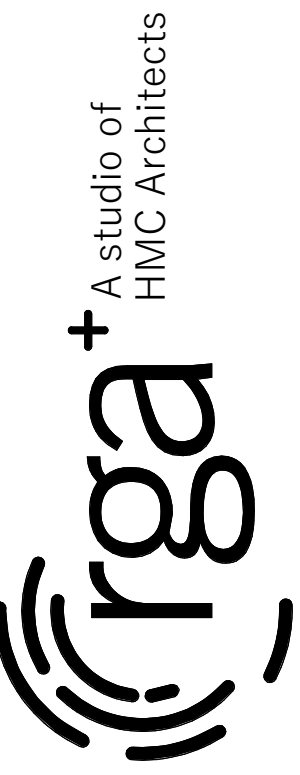
- SN.01 REPLACE DAMAGED ACOUSTICAL CEILING TILES
- SN.02 (E) SUSPENDED ACOUSTICAL CEILING TILES TO BE PAINTED
- SN.03 (E) T-BAR GRID & REGISTERS TO BE PAINTED
- SN.04 (E) APPLIED ACOUSTICAL CEILING TILES TO BE PAINTED
- SN.05 (E) ROOF LADDER

## EXTERIOR SOFFIT FINISH SCHEDULE

	MATERIAL	FINISH
P1	LATH & PLASTER	PAINT COLOR 1

## FINISHES

- CEILING
- C1 (E) ACOUSTICAL SPRAY ON: PAINTED
- C2 (E) VINYL WALLCOVERING: PAINTED
- C3 (E) GYPSUM WALLBOARD: PAINTED
- C4 (E) SUSPENDED ACOUSTICAL CEILING
- C5 (E) ACOUSTICAL CEILING TILE: PAINTED
- C6 (E) PLYWOOD: PAINTED
- C7 (E) LATH AND PLASTER: PAINTED



VILLOVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision
1 ADDENDUM #1 02/03/2023

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REFLECTED CEILING  
PLANS - BUILDINGS B  
THROUGH J

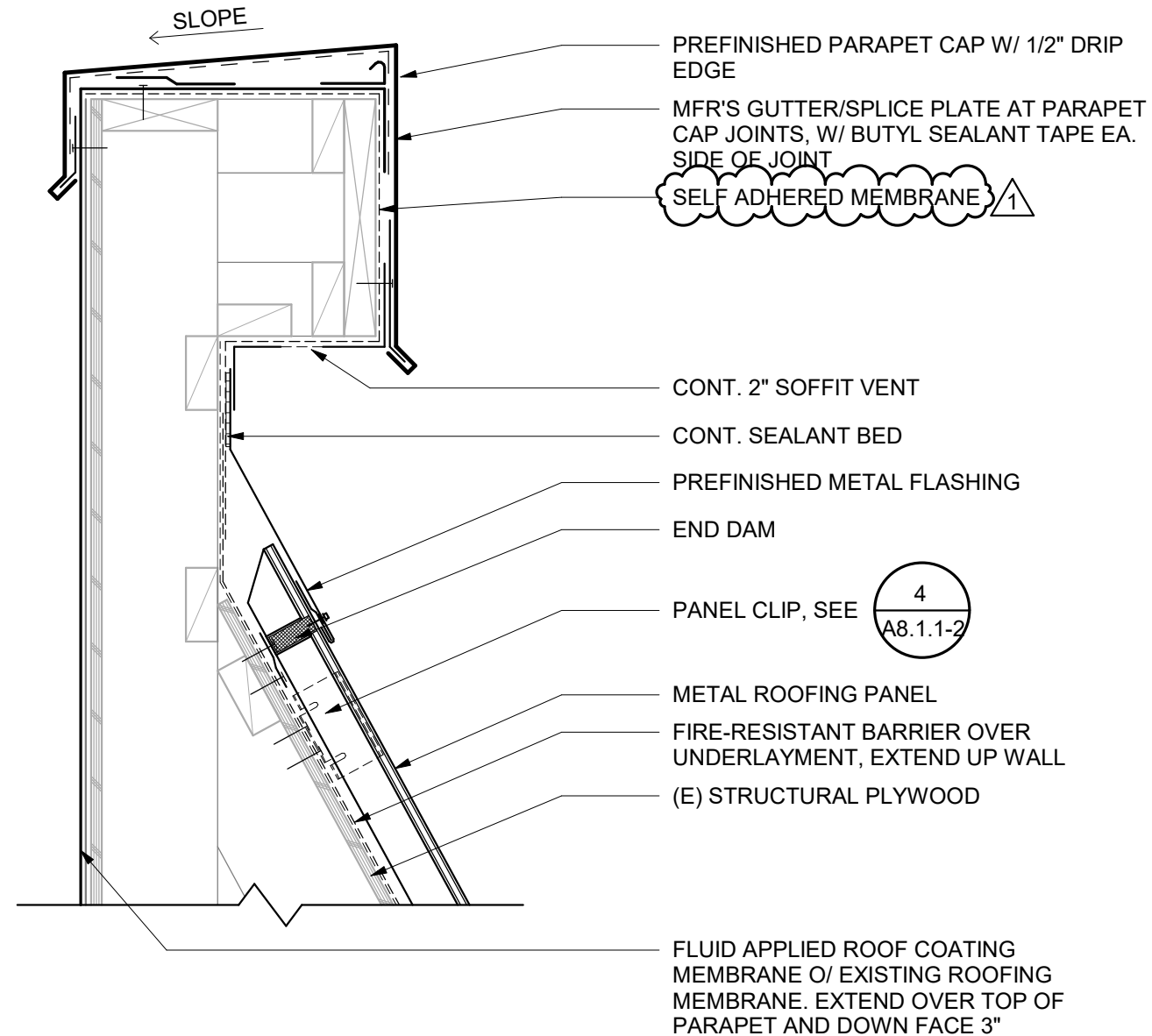
INCREMENT #2

PROJECT NO.	1515
DATE:	12/21/2022
SHEET	A6.2.2-2



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## 9 PARAPET AT MANSARD

1 1/2" = 1'-0"



ADDENDUM 1

ALL FEATURES, NOTES AND DIMENSIONS NOT SPECIFICALLY SHOWN OR NOTED AS CHANGED SHALL REMAIN AS SHOWN ON PREVIOUSLY ISSUED DOCUMENTS.



**PARAPET AT MANSARD 9/A8.1.2-2**  
VILLALOVOZ ELEMENTARY SCHOOL -  
TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA  
DSA APP.02-120733

DATE: 01/31/23  
PROJECT NO.: 1515  
SHEET:  
**AD1.12**



FIRE ALARM SYSTEM COMPONENTS

MANUFACTURER	MODEL NUMBER	DESCRIPTION	CSFM LISTING
GAMEWELL-FCI	E3	FIRE ALARM CONTROL PANEL	7165-1703.0125
GAMEWELL-FCI	AM-50	VOICE EVAC AMPLIFIER, 50W	7165-1703.0125
GAMEWELL-FCI	INCC-MIC	REMOTE MICROPHONE	7165-1703.0125
HONEYWELL	HPF24S6	REMOTE POWER SUPPLY	7315-1637.0102
GAMEWELL-FCI	MS-7AF	MANUAL PULL STATION	7150-1703.0119
GAMEWELL-FCI	ASD-PL3	SMOKE DETECTOR	7272-1703.0501
GAMEWELL-FCI	ATD-L3R	HEAT DETECTOR, CEILING	7270-1703.0502
GAMEWELL-FCI	ATD-L3H	HEAT DETECTOR, 190 DEGREES	7270-1703.0502
THERMOTECH	302-194 W/ AP-P	HEAT DETECTOR, ABOVE CEILING	7270-0021.0001
SYSTEM SENSOR	B300-6	DETECTOR BASE	7300-1653.0109
GAMEWELL-FCI	AOM-2RF	CONTROL MODULE	7300-1703.0102
GAMEWELL-FCI	AMM-4F	MONITOR MODULE	7300-1703.0102
WHEELock	ET-1010-R WBB-R WFP	VOICE EVAC SPEAKER, EXTERIOR WITH OUTDOOR BACKBOX OR WP ADAPTER PLATE	7320-0785.0105 7300-0785.0177 7300-0785.0177
WHEELock	ELSPSTRC	SPEAKER/STROBE, CEILING	7320-0785.0505
WHEELock	ELSPSTR	SPEAKER/STROBE, WALL	7320-0785.0505
WHEELock	ELSTRC	STROBE, CEILING	7135-0785.0504
WHEELock	DSM-12/24-R	SYNC MODULE	7300-0785.0132
HONEYWELL	HWF2-COM	CELLULAR DIALER	7300-1645.0511
WHEELock	43T-G6-115-R	FIRE ALARM RISER BELL	7135-0785.0108

RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED. CONDUCTORS SHALL BE REMOVED.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
	REMOVE (E) WIRE, PULL IN NEW WIRES, #12 AWG UNLESS NOTED.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD, SWITCHBOARD, STC, OR IDF.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
	FLEX CONDUIT.
	INDICATES RACEWAY TURNING UP.
	INDICATES RACEWAY TURNING DOWN.
	INDICATES RACEWAY STUB, TERMINATE W/ BUSHING OR CAP IF UNDERGROUND.

LIGHTING CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
	DIMMING CONTROL, WALL MOUNTED. STUB 1" C INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATING BUSHING. <u>WATTSTOPPER DLM #LMDM-101</u>
	AUTOMATIC "ON/OFF" CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. <u>WATTSTOPPER DLM #LMDG-100</u>
	AUTOMATIC "ON/OFF" CORNER MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. <u>WATTSTOPPER DLM #LMDX-100</u>
	LIGHTING ROOM CONTROLLER ATTACHED TO JUNCTION BOX ABOVE CEILING, 1 RELAY CONTROLLER W/ 0-10V DIMMING. <u>WATTSTOPPER DLM #LMRC-211</u>
	LIGHTING ROOM CONTROLLER ATTACHED TO JUNCTION BOX ABOVE CEILING, 2 RELAY CONTROLLER W/ 0-10V DIMMING. <u>WATTSTOPPER DLM #LMRC-212</u>

SECURITY DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	INTRUSION ALARM KEYPAD.
	WALL OR CEILING MOUNTED MOTION SENSOR.
SUBSCRIPT	SECURITY DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING:
C	= CEILING MOUNTED
WG	= WIREGUARD
WP	= WEATHERPROOF

PAGING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED EXTERIOR WALL SPEAKERS FOR INTERCOM SYSTEM.
	SURFACE MOUNTED INTERIOR WALL OR CEILING SPEAKERS FOR INTERCOM SYSTEM.
	SURFACE MOUNTED COMBINATION CLOCK/SPEAKER.
	SURFACE MOUNTED CLOCK.

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM REMOTE MICROPHONE.
	FIRE ALARM END OF LINE RESISTOR.
	FIRE ALARM CONTROL MODULE.
	FIRE ALARM MONITOR MODULE.
	FIRE ALARM SYNC ADAPTER MODULE.
	FIRE ALARM MANUAL PULL STATION.
	FIRE ALARM SMOKE DETECTOR.
	FIRE ALARM HEAT DETECTOR.
	FIRE ALARM SPEAKER.
	FIRE ALARM SPEAKER / STROBE COMBINATION.
	FIRE ALARM CEILING MOUNTED STROBE LIGHT.
	FIRE ALARM WALL MOUNTED STROBE LIGHT.
	(E) POST INDICATOR VALVE.
	(E) FIRE SPRINKLER SYSTEM FLOW SWITCH.
	FIRE SPRINKLER RISER 120V BELL.
SUBSCRIPTS:	FIRE ALARM DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING:
AC	= ABOVE CEILING MOUNTED DEVICE
C	= CEILING MOUNTED DEVICE
cd	= CANDELA
CO	= CARBON MONOXIDE
E	= EXPLOSION PROOF
WG	= WIREGUARD
WP	= WEATHERPROOF

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	NUMBERED NOTE.
	ENLARGED PLAN OR DETAIL CALL-OUT.
	TRANSFORMER.
	CIRCUIT BREAKER.

POWER DISTRIBUTION SYMBOLS

SYMBOL	DESCRIPTION
	1-POLE 1-PHASE MOTOR RATED DISCONNECT SWITCH. AMPERAGE ADJACENT INDICATES AMPERE RATING OF SWITCH. SWITCH SHALL BE RATED 600V MAXIMUM FOR ALL SYSTEMS.
	CONTROL AND/OR EQUIPMENT, PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS INDICATED.
	DISTRIBUTION PANEL/MOTOR CONTROL CENTER.
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.
	TERMINAL CABINET, SURFACE MOUNTED, SIZE AND TYPE AS INDICATED.
	TERMINAL CABINET, FLUSH MOUNTED, SIZE AND TYPE AS INDICATED.

WIRING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER.
	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
SUBSCRIPTS:	DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING:
C	= ABOVE COUNTER MOUNTED AT 42" TO CENTER OF BOX
TV	= MOUNTED AT 82" AFF TO CENTER OF BOX TO POWER TV/MONITOR
WP	= WEATHERPROOF
IG	= ISOLATED GROUND
TP	= TAMPERPROOF
USB	= PROVIDE RECEPTACLE W/ DUAL USB CHARGING
CR	= CEILING MOUNTED CORD REEL
D	= DEDICATED
CLG	= CEILING MOUNTED, PROVIDE SUPPORT TO STRUCTURAL CEILING

LIGHTING SYMBOLS

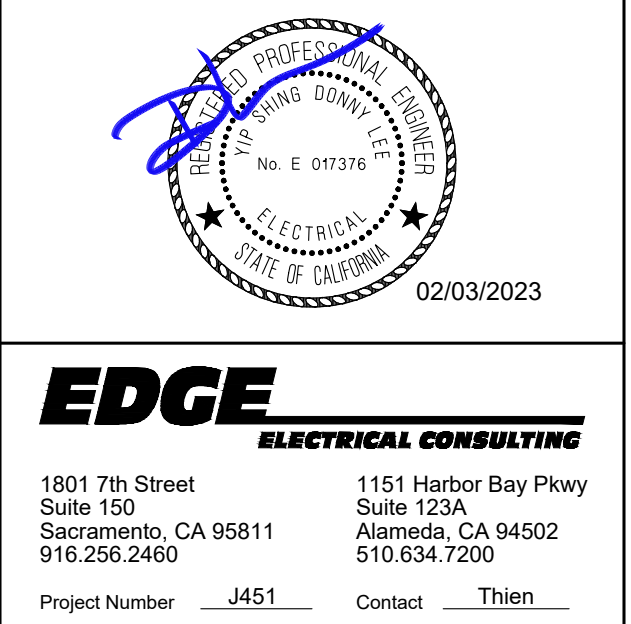
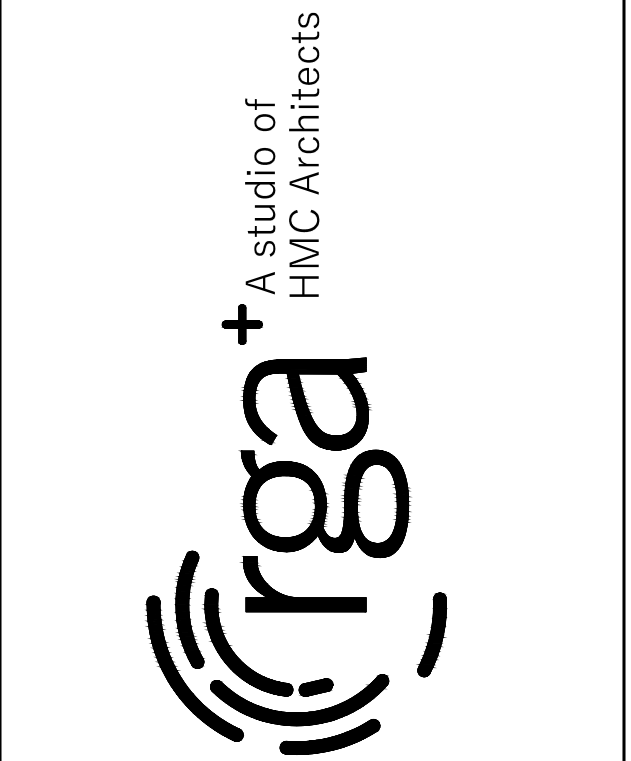
SYMBOL	DESCRIPTION
	RECESSED MOUNTED LUMINAIRE.
	RECESSED MOUNTED LUMINAIRE AT GYPSUM BOARD CEILING.
	SURFACE MOUNTED LUMINAIRE.
	RECESSED WALL WASHED DOWNLIGHT LUMINAIRE.
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN W/ DIRECTIONAL ARROWS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S)
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN AND BUG-EYE COMBINATION LUMINAIRE. 90 MINUTE BATTERY PACK. DIRECTIONAL ARROWS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S) .
	WALL MOUNTED BUG-EYE LUMINAIRE CONNECTED TO 90 MINUTE BATTERY PACK.
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY OR BATTERY POWER SOURCE.
	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.

LIGHTING CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
	SINGLE POLE TOGGLE SWITCH. SEE FLOOR PLANS AND <u>DEVICE MOUNTING DETAIL</u> ON DETAIL SHEET FOR ADDITIONAL MOUNTING HEIGHT REQUIREMENT.
	LINE VOLTAGE AUTOMATIC "ON/OFF" DUAL TECHNOLOGY OCCUPANCY SENSOR & SWITCH, WALL MOUNTED. <u>WATTSTOPPER #DW-100</u>
	LINE VOLTAGE AUTOMATIC "ON/OFF" PIR OCCUPANCY SENSOR W/ 0-10V DIMMING CONTROL, WALL MOUNTED. <u>WATTSTOPPER #PW-311</u>
	LINE VOLTAGE TO 0-10V DIMMER AND SWITCH, WALL MOUNTED. <u>WATTSTOPPER #RH4FBL3PW, RHKITW</u>
	LINE VOLTAGE AUTOMATIC "ON/OFF" CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. <u>WATTSTOPPER #DT-355</u>
SUBSCRIPTS:	LIGHTING CONTROLS SUBSCRIPTS DESIGNATE THE FOLLOWING:
3W	= 3-WAY SWITCH
ab.c	= LIGHTING/DEVICE CONTROL (LOWERCASE SUBSCRIPTS)
K	= KEYED
MC	= MOMENTARY CONTACT
T	= THERMAL OVERLOAD PROTECTED
WP	= WEATHERPROOF

SHEET INDEX

SHEET	DESCRIPTION
E0.0.1-2	SHEET INDEX & SYMBOLS
E0.0.2-2	ABBREVIATIONS & ELECTRICAL NOTES
E0.0.3-2	TITLE 24 COMPLIANCE
E1.1.1-2	SITE PLAN - ELECTRICAL
E2.1.1-2	BLDG A FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)
E2.1.2-2	BLDG A FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)
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E2.1.6-2	BLDG A FLOOR PLAN - DEMOLITION POWER & SIGNAL
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E2.3.4-2	BLDG C, D, & E FLOOR PLAN - NEW POWER & SIGNAL
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E3.1.2-2	FIRE ALARM RISER DIAGRAM
E3.1.3-2	FIRE ALARM RISER DIAGRAM
E3.1.4-2	FIRE ALARM CALCULATIONS
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E4.1.4-2	ELECTRICAL DETAILS



VILLALOVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

1 ADDENDUM 1 02/03/23

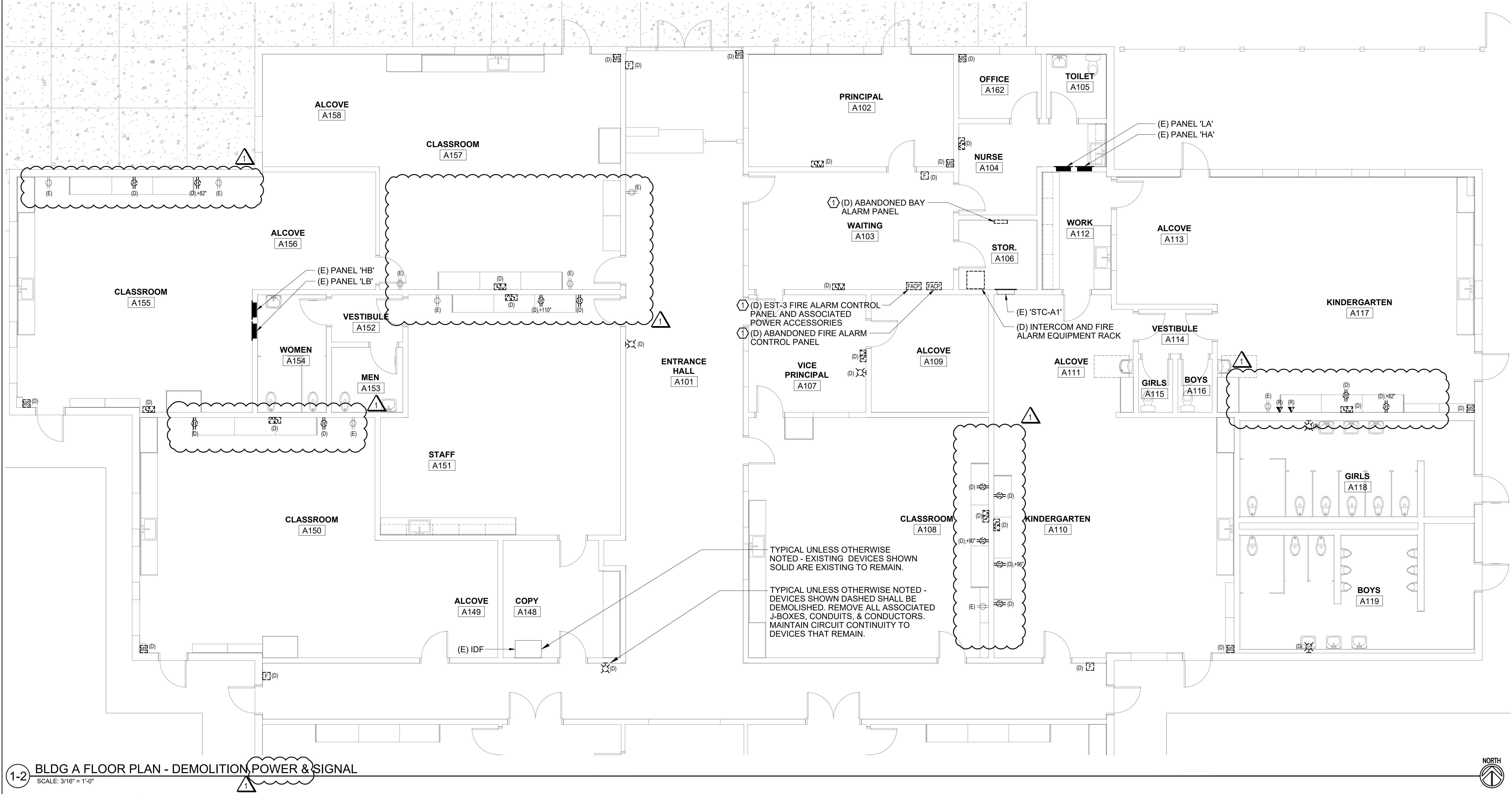
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SHEET INDEX & SYMBOLS

INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/22
SHEET	E0.0.1-2





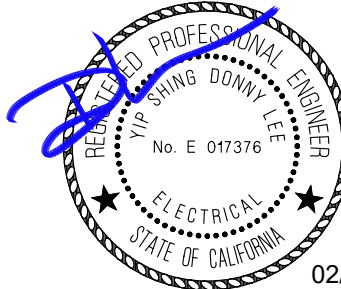
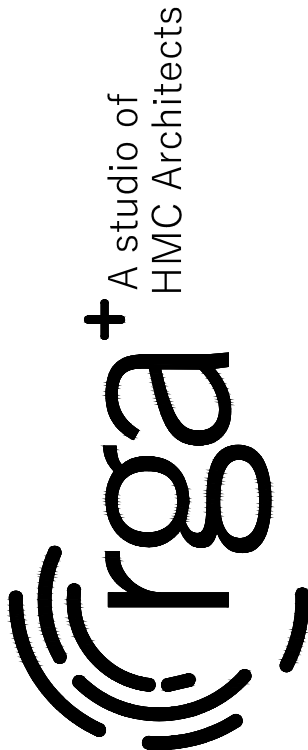
1-2 BLDG A FLOOR PLAN - DEMOLITION POWER & SIGNAL  
SCALE: 3/16" = 1'-0"

SHEET NOTES

1. THE EXISTING INTRUSION ALARM, FIRE ALARM, AND CLOCK/SPEAKER SYSTEM SHALL BE DEMOLISHED AND REPLACED WITH NEW. REMOVE THE HEAD END EQUIPMENT, THE ASSOCIATED DEVICES, AND ACCESSORIES. REMOVE ALL ABANDONED CONDUIT, WIRING, AND DEVICES. COORDINATE WITH OWNER IF THE SYSTEMS DEVICES ARE TO BE RETURNED TO TRACY UNIFIED SCHOOL DISTRICT.

NUMBERED NOTES

1. REMOVE EQUIPMENT AND RETURN TO OWNER.



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VILLALVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

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BLDG A FLOOR PLAN -  
DEMOLITION POWER &  
SIGNAL

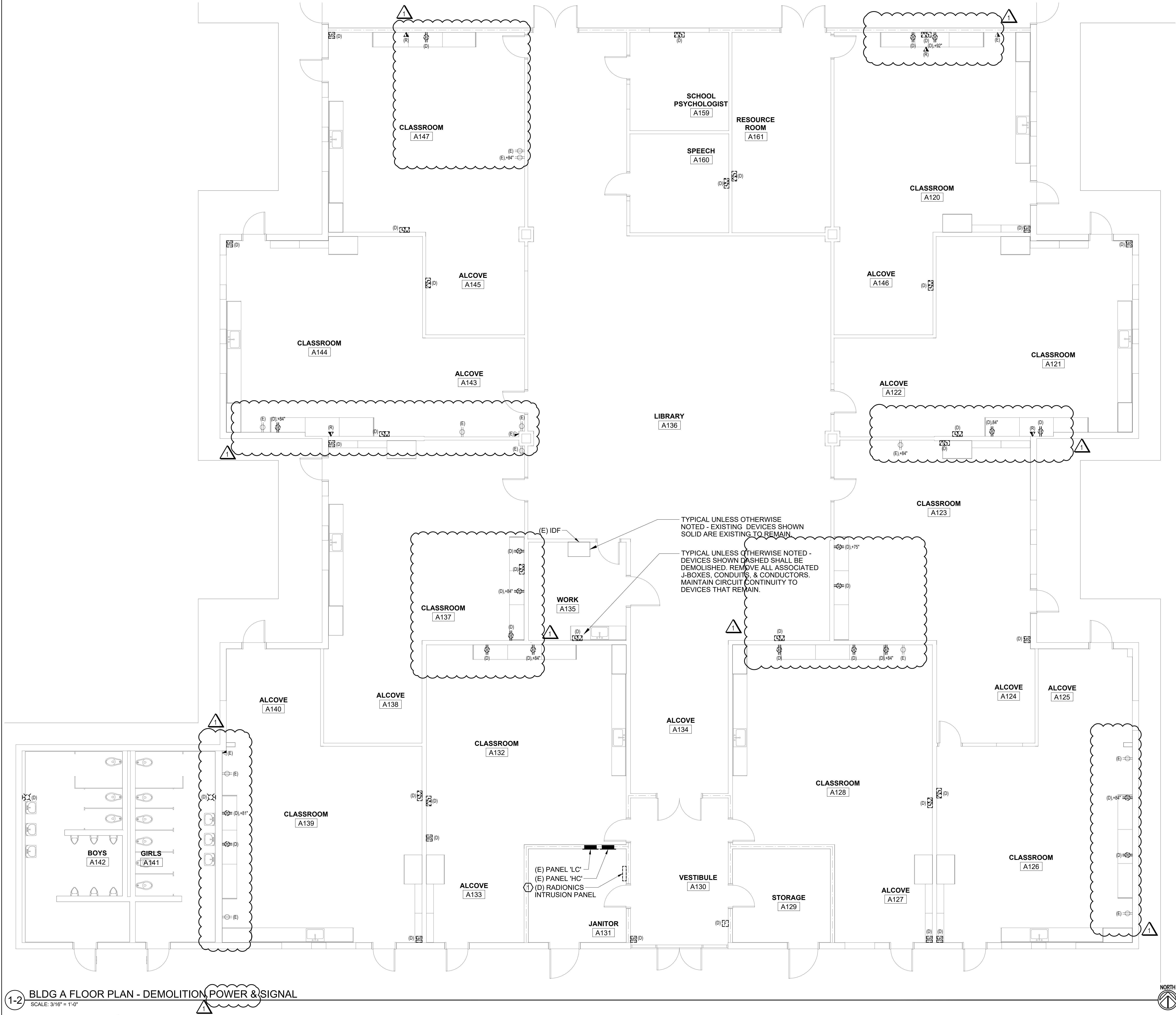
INCREMENT #2

PROJECT NO. 1515  
DATE: 11/15/22  
SHEET

E2.1.5-2

AD1.14

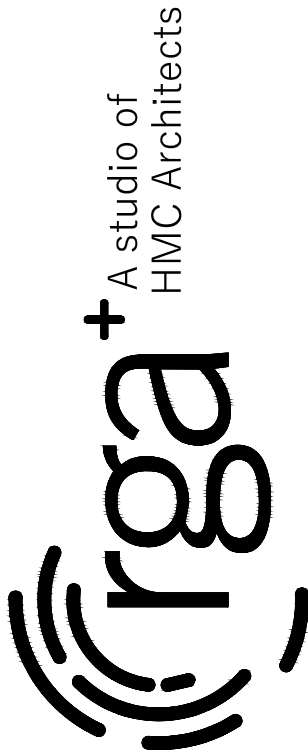
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1-2 BLDG A FLOOR PLAN - DEMOLITION POWER & SIGNAL  
SCALE: 3/16" = 1'-0"

SHEET NOTES

1. THE EXISTING INTRUSION ALARM, FIRE ALARM, AND CLOCK/SPEAKER SYSTEM SHALL BE DEMOLISHED AND REPLACED WITH NEW. REMOVE THE HEAD END EQUIPMENT, THE ASSOCIATED DEVICES, AND ACCESSORIES. REMOVE ALL ABANDONED CONDUIT, WIRING, AND DEVICES. COORDINATE WITH OWNER IF THE SYSTEMS DEVICES ARE TO BE RETURNED TO TRACY UNIFIED SCHOOL DISTRICT.



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NUMBERED NOTES

- 1 REMOVE EQUIPMENT AND RETURN TO OWNER.

VILLALVOZ ELEMENTARY SCHOOL - INCREMENT #2  
TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

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1	ADDENDUM 1 02/03/23

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BLDG A FLOOR PLAN - DEMOLITION POWER & SIGNAL

INCREMENT #2

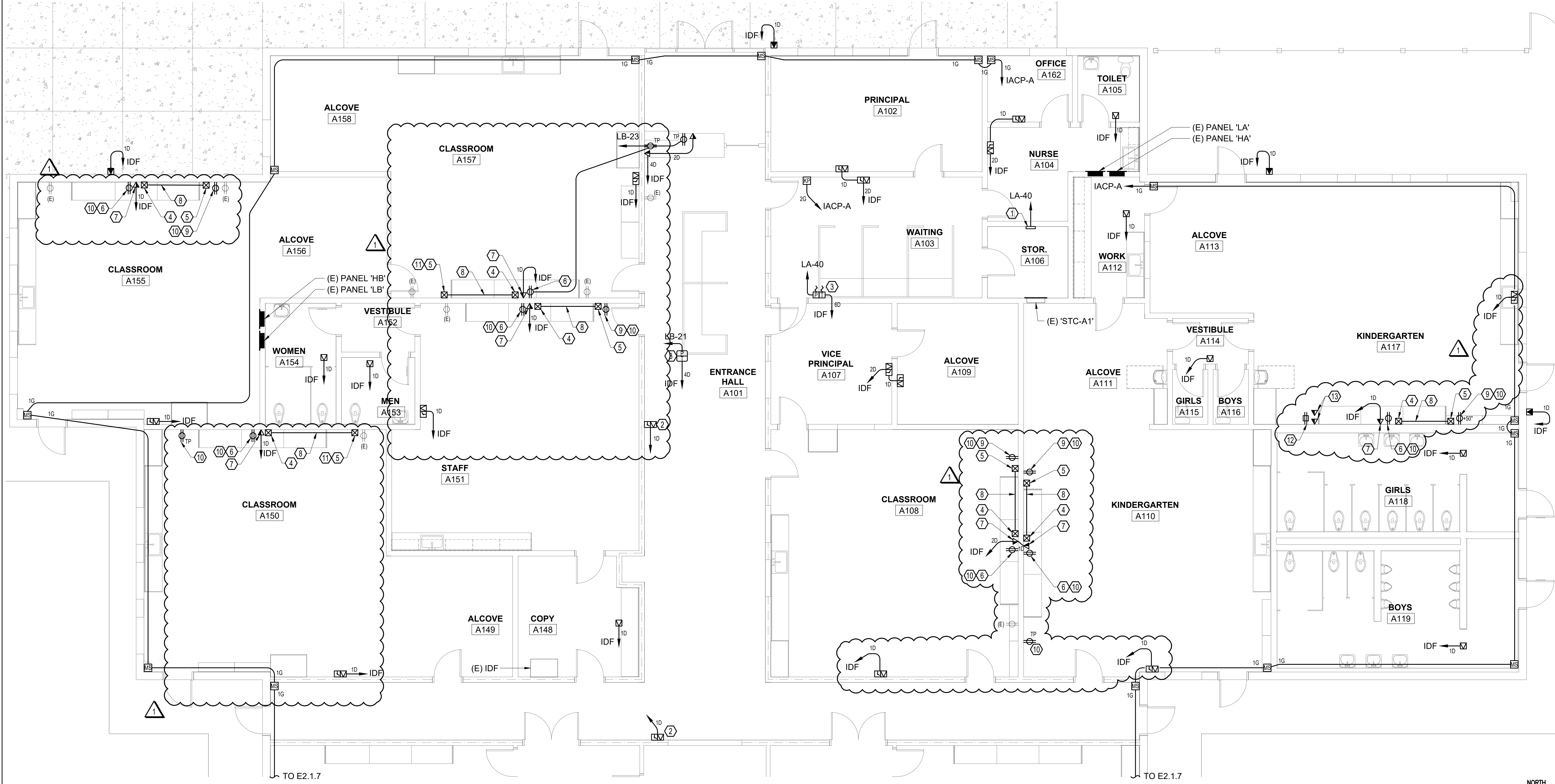
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DATE:	11/15/22
SHEET	E2.1.6-2



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1-2

BLDG A FLOOR PLAN - NEW POWER & SIGNAL  
SCALE: 3/16" = 1'-0"

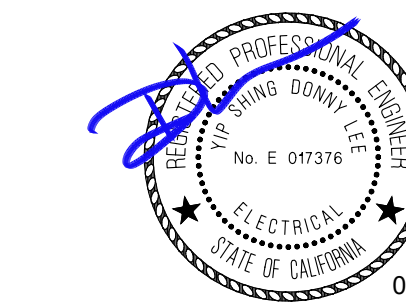
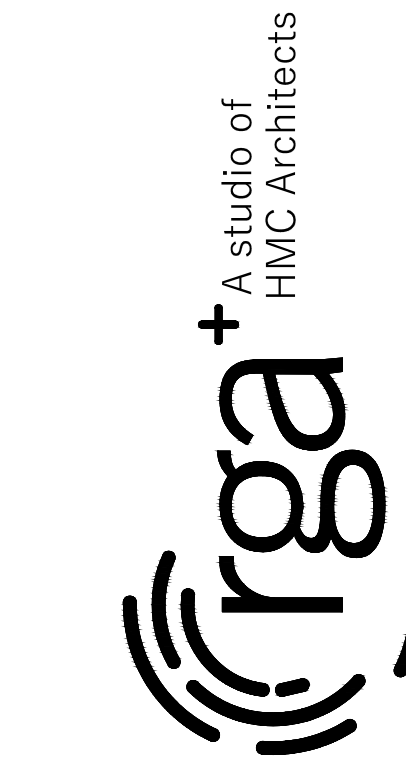


## SHEET NOTES

- UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
- WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

## NUMBERED NOTES

- INTRUSION ALARM CONTROL PANEL 'IACP-A', 120V.
- WALL MOUNTED, DOUBLE-SIDED, CLOCK-SPEAKER.
- POWER/DATA POLE FOR MODULAR FURNITURE BY OTHERS. COORDINATE EXACT LOCATION WITH ARCHITECT.
- PROJECTOR. SEE ARCHITECTURAL PLAN.
- CONTROL PAD UNIT. SEE ARCHITECTURAL PLAN. COORDINATE THE EXACT LOCATION FOR THE CONTROL PAD UNIT WITH THE ARCHITECT.
- PROVIDE RECEPTACLE (TP) FOR PROJECTOR. LOCATE RECEPTACLE BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- PROVIDE DATA OUTLET FOR PROJECTOR. LOCATE THE OUTLET BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- PROVIDE SURFACE MOUNTED WIREMOLD RACEWAY BETWEEN THE PROJECTOR AND THE CONTROL PAD UNIT. PROVIDE 1D CABLE.
- PROVIDE NEW RECEPTACLE (TP) FOR CONTROL PAD UNIT.
- CONNECT NEW RECEPTACLE TO THE EXISTING CIRCUIT OF THE DEMOLISHED RECEPTACLE. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
- PLUG CONTROL PAD UNIT POWER INTO NEARBY EXISTING RECEPTACLE.
- REPLACE EXISTING RECEPTACLE WITH NEW TAMPERPROOF GFCI TYPE.
- EXISTING RELOCATED DATA OUTLET. REROUTE EXISTING CABLE TO NEW DEVICE LOCATION.



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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision  
1 ADDENDUM 1 02/03/23

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BLDG A FLOOR PLAN - NEW POWER & SIGNAL

INCREMENT #2

PROJECT NO. 1515  
DATE: 11/15/22  
SHEET

E2.1.7-2

AD1.16

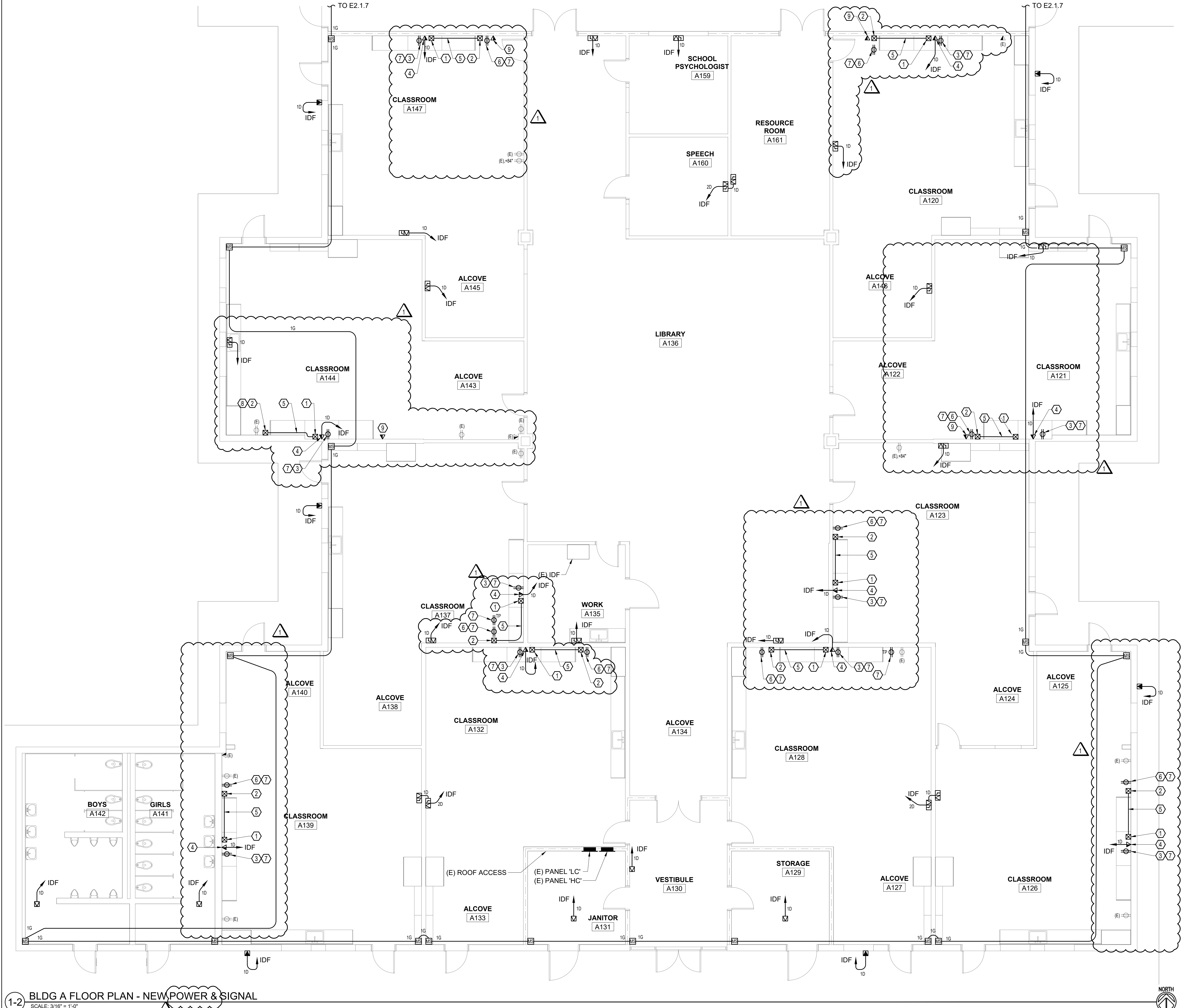


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1-2

# BLDG A FLOOR PLAN - NEW POWER & SIGNAL

SCALE: 3/16" = 1'-0"

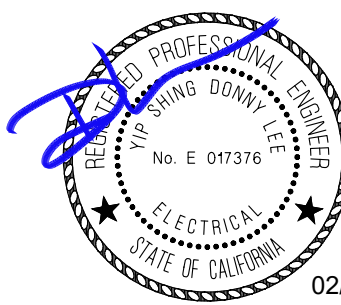
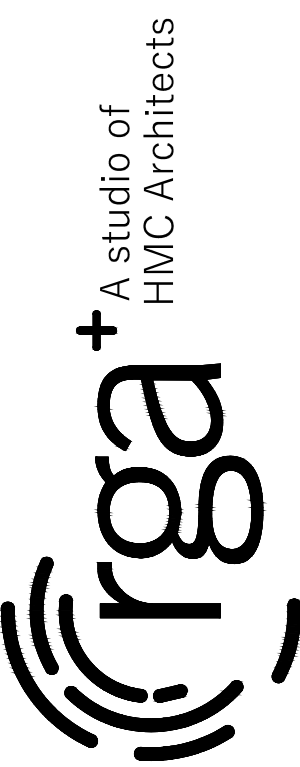


## SHEET NOTES

1. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
2. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

## NUMBERED NOTES

- 1 PROJECTOR, SEE ARCHITECTURAL PLAN.
- 2 CONTROL PAD UNIT, SEE ARCHITECTURAL PLAN. COORDINATE THE EXACT LOCATION FOR THE CONTROL PAD UNIT WITH THE ARCHITECT.
- 3 PROVIDE RECEPTACLE (TP) FOR PROJECTOR. LOCATE RECEPTACLE BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- 4 PROVIDE DATA OUTLET FOR PROJECTOR. LOCATE THE OUTLET BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- 5 PROVIDE SURFACE MOUNTED WIREMOLD RACEWAY BETWEEN THE PROJECTOR AND THE CONTROL PAD UNIT. PROVIDE 1D CABLE.
- 6 PROVIDE NEW RECEPTACLE (TP) FOR CONTROL PAD UNIT.
- 7 CONNECT NEW RECEPTACLE TO THE EXISTING CIRCUIT OF THE DEMOLISHED RECEPTACLE. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
- 8 PLUG CONTROL PAD UNIT POWER INTO NEARBY EXISTING RECEPTACLE.
- 9 EXISTING RELOCATED DATA OUTLET. REROUTE EXISTING CABLE TO NEW DEVICE LOCATION.



02/03/2023

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916.256.2460  
Project Number: J451 Contact: Thien

VILLALVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

### Revision

1	ADDENDUM 1	02/03/23
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BLDG A FLOOR PLAN - NEW POWER & SIGNAL

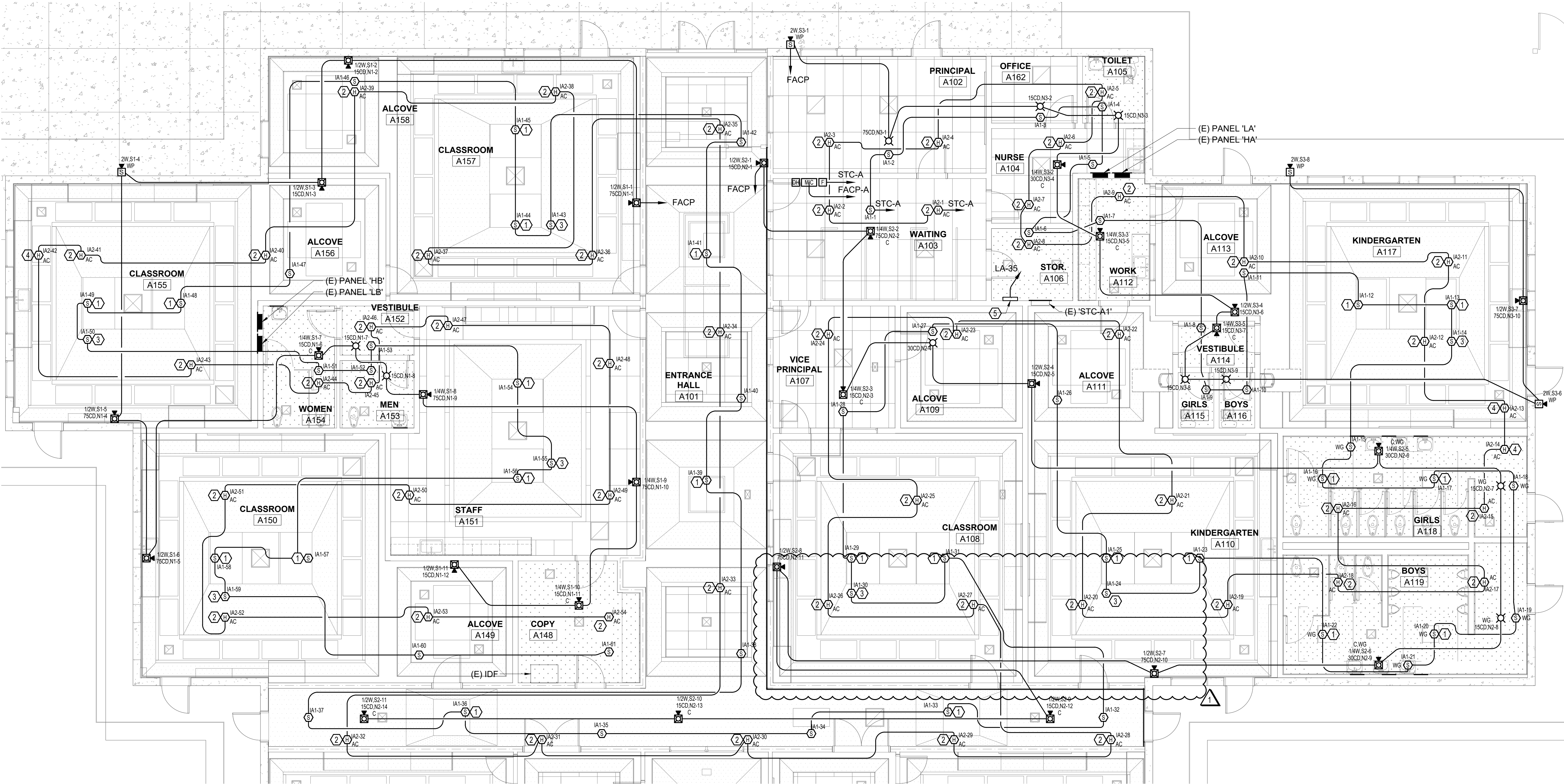
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PROJECT NO. 1515  
DATE: 11/15/22  
SHEET

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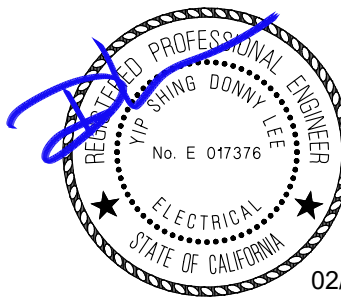
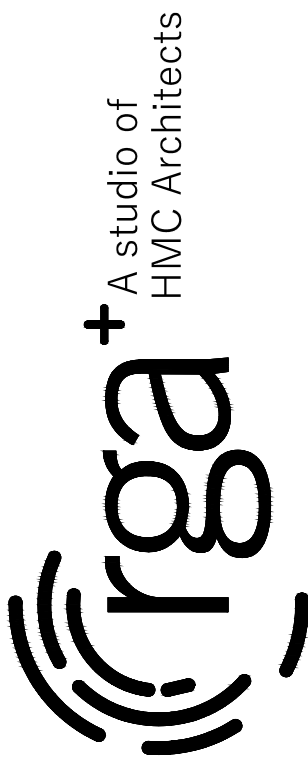
1-2 BLDG A FLOOR PLAN - NEW FIRE ALARM  
SCALE: 3/16" = 1'-0"

SHEET NOTES

1. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
2. CEILING MOUNTED NOTIFICATION DEVICES SHALL NOT BE MOUNTED ON SLOPED CEILING.
3. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

NUMBERED NOTES

- ① WALL MOUNTED SMOKE DETECTOR IN SKYLIGHT WELL. MOUNT TOP OF DETECTOR WITHIN 12" FROM TOP BUT NOT WITHIN 4" FROM TOP.
- ② MOUNT ABOVE CEILING HEAT DETECTOR AT BOTTOM OF JOIST.
- ③ MOUNT DETECTOR WITHIN 36" (LATERAL) FROM PEAK OF SLOPE BUT NOT WITHIN 4" (VERTICAL).
- ④ MOUNT HEAT DETECTOR IN CRICKET SPACE ON ROOF.
- ⑤ FIRE ALARM CONTROL PANEL 'FACP-A', 120V, 3.5A.



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Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

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1	ADDENDUM 1	02/03/23

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BLDG A FLOOR PLAN - NEW FIRE ALARM

INCREMENT #2

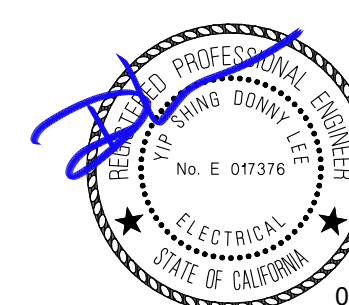
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SHEET	E2.1.9-2





1. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
2. CEILING MOUNTED NOTIFICATION DEVICES SHALL NOT BE MOUNTED ON SLOPED CEILING.
3. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

- ① WALL MOUNTED SMOKE DETECTOR IN SKYLIGHT WELL. MOUNT TOP OF DETECTOR WITHIN 12" FROM TOP BUT NOT WITHIN 4" FROM TOP.
- ② MOUNT ABOVE CEILING HEAT DETECTOR AT BOTTOM OF JOIST.
- ③ MOUNT DETECTOR WITHIN 36" (LATERAL) FROM PEAK OF SLOPE BUT NOT WITHIN 4" (VERTICAL).
- ④ MOUNT HEAT DETECTOR IN CRICKET SPACE ON ROOF.



## EDGE

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TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

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1	ADDENDUM 1	02/03/23

**BLDG A FLOOR PLAN -  
NEW FIRE ALARM**

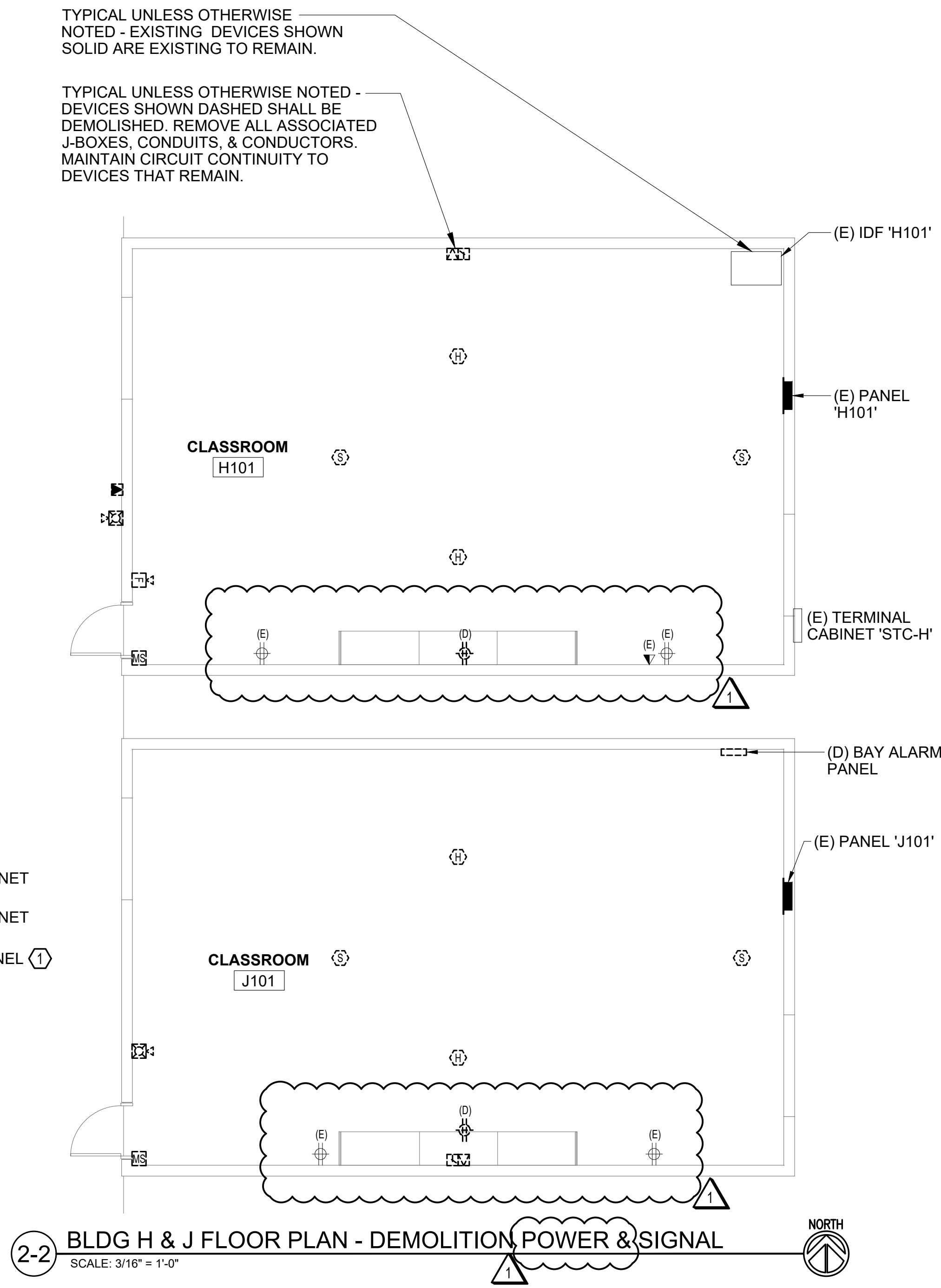
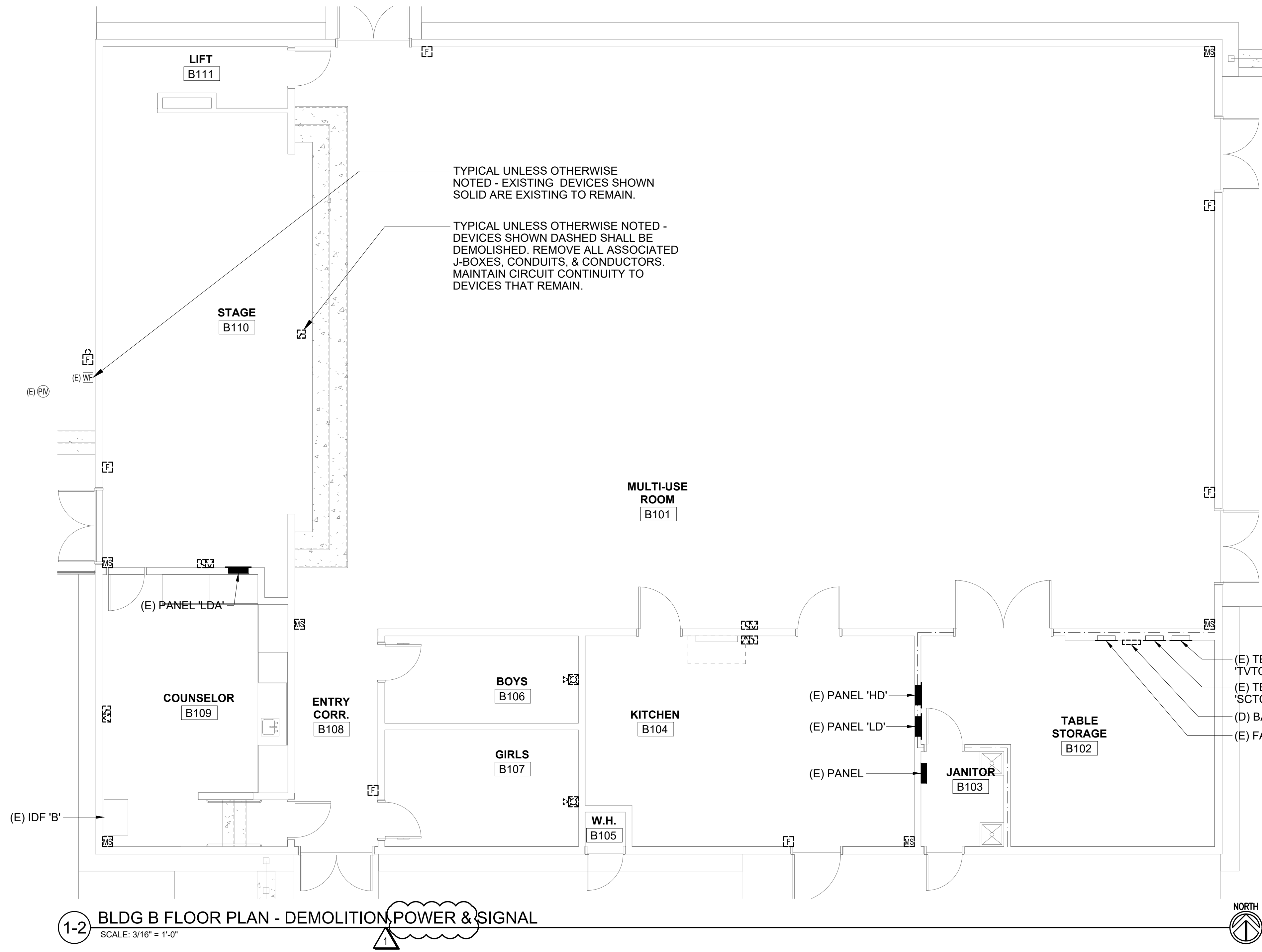
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DATE:	11/15/2
SHEET	

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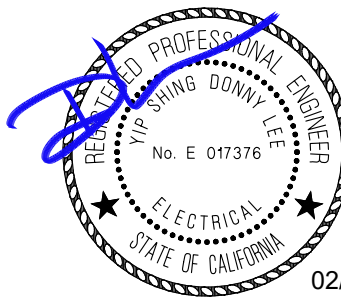
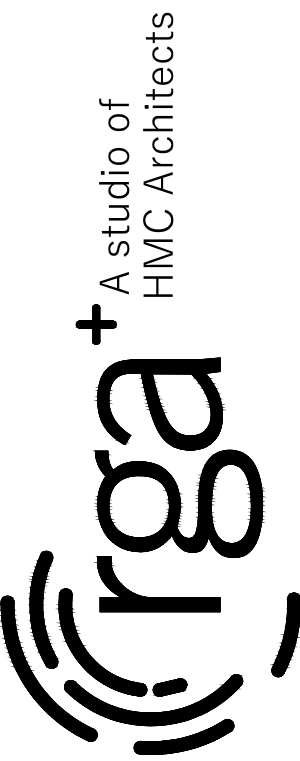


SHEET NOTES

1. THE EXISTING INTRUSION ALARM, FIRE ALARM, AND CLOCK/SPEAKER SYSTEM SHALL BE DEMOLISHED AND REPLACED WITH NEW. REMOVE THE HEAD END EQUIPMENT, THE ASSOCIATED DEVICES, AND ACCESSORIES. REMOVE ALL ABANDONED CONDUIT, WIRING, AND DEVICES. COORDINATE WITH OWNER IF THE SYSTEMS DEVICES ARE TO BE RETURNED TO TRACY UNIFIED SCHOOL DISTRICT.

NUMBERED NOTES

- ① REMOVE EQUIPMENT AND RETURN TO OWNER.



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Project Number J451 Contact Thien

VILLALVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision	
1	ADDENDUM 1 02/03/23

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BLDG B, H, & J FLOOR PLAN - DEMOLITION POWER & SIGNAL

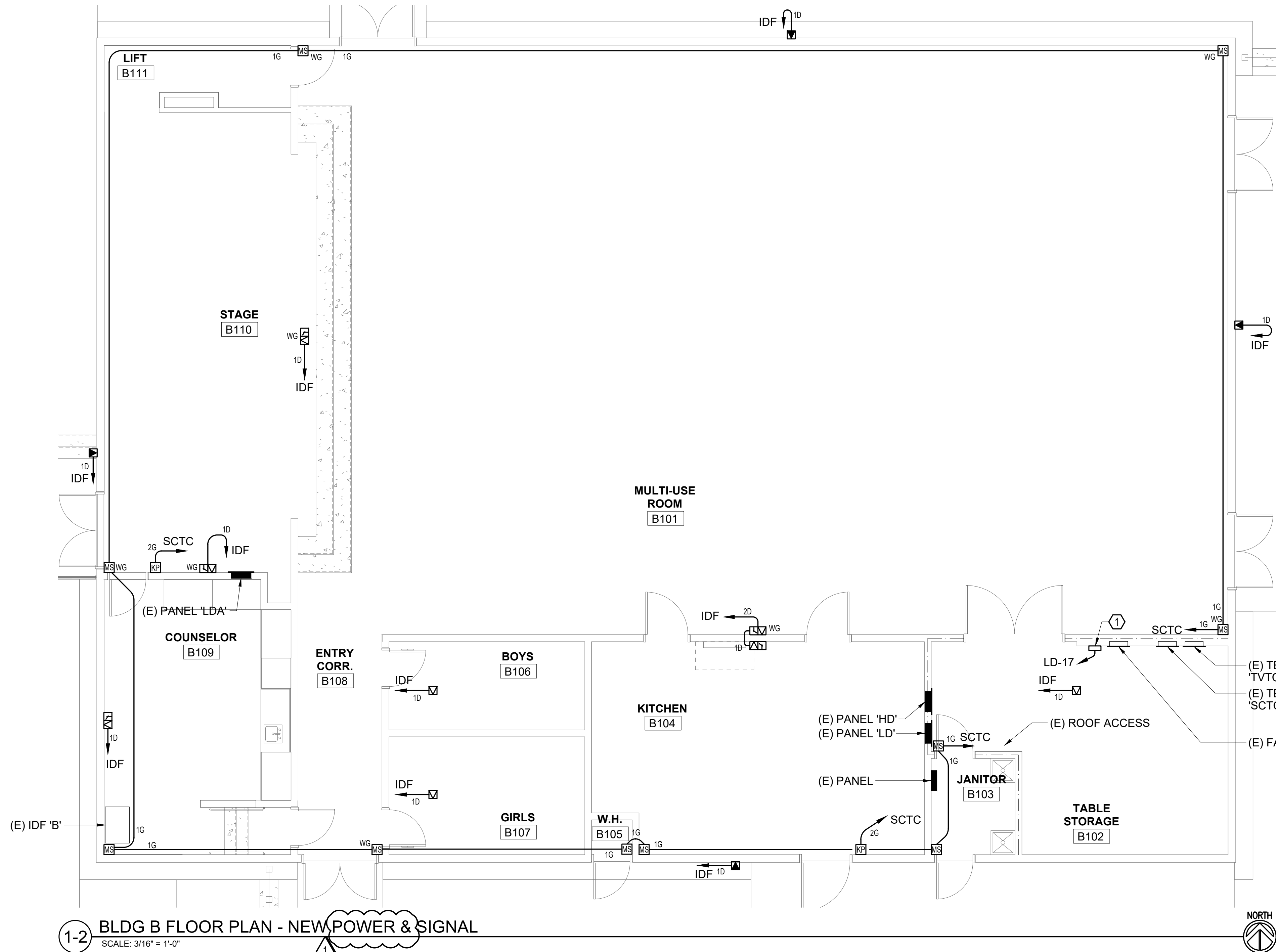
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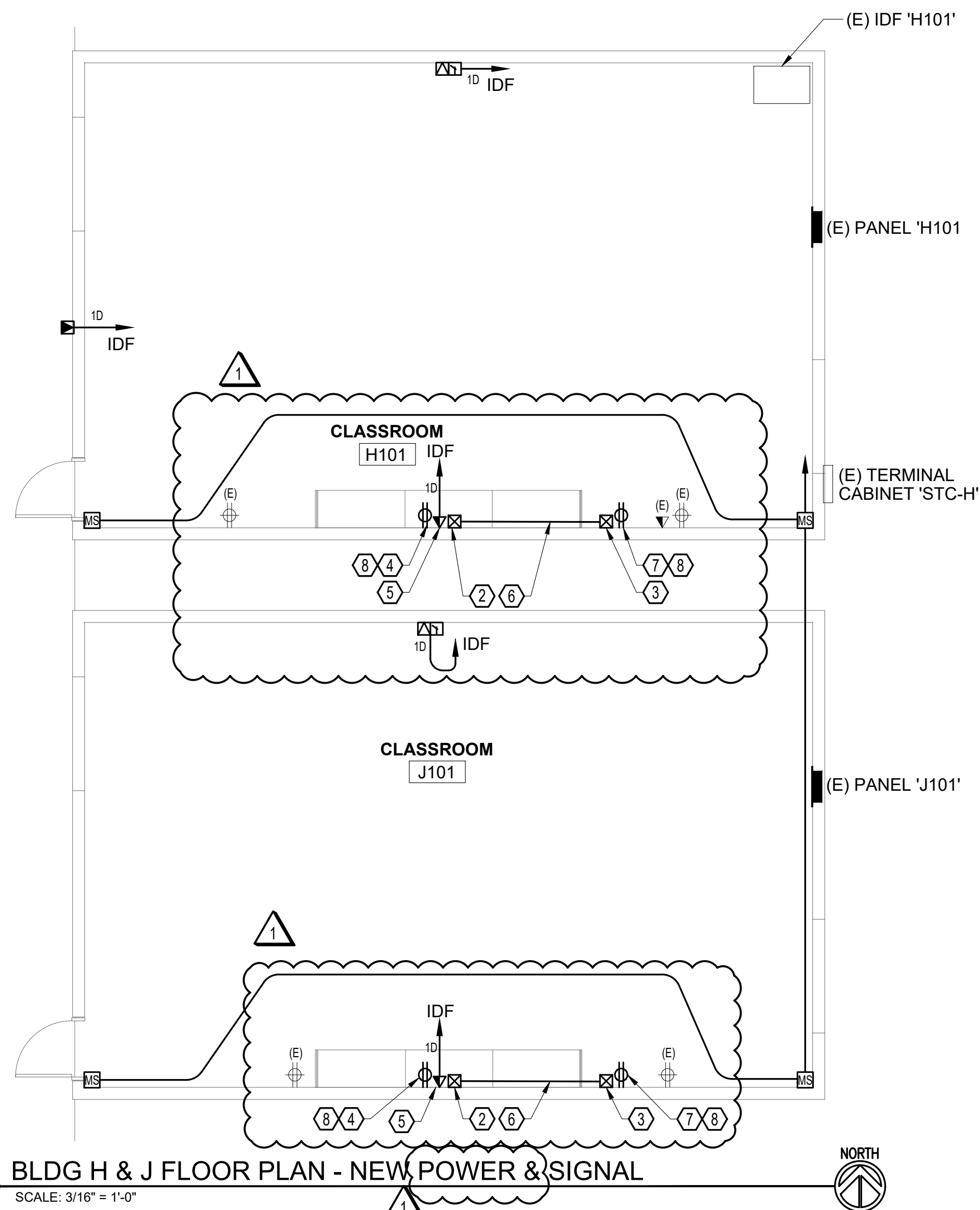
E2.2.3-2

AD1.20

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1-2 BLDG B FLOOR PLAN - NEW POWER & SIGNAL  
SCALE: 3/16" = 1'-0"



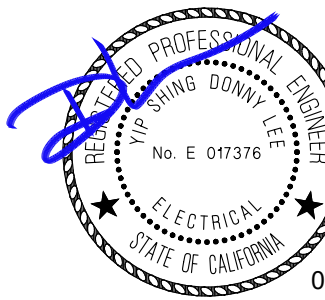
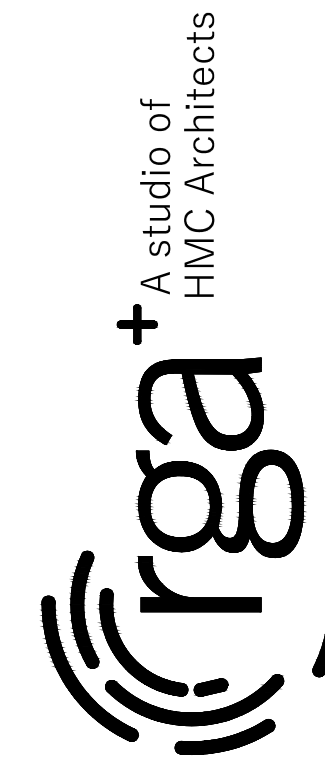
2-2 BLDG H & J FLOOR PLAN - NEW POWER & SIGNAL  
SCALE: 3/16" = 1'-0"

## SHEET NOTES

- UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
- WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

## NUMBERED NOTES

- INTRUSION ALARM POWER SUPPLY 'IAPS-B', 120V, 1.45A, ROUTE 2G TO 'SCTC'.
- PROJECTOR, SEE ARCHITECTURAL PLAN.
- CONTROL PAD UNIT, SEE ARCHITECTURAL PLAN. COORDINATE THE EXACT LOCATION FOR THE CONTROL PAD UNIT WITH THE ARCHITECT.
- PROVIDE RECEPTACLE (TP) FOR PROJECTOR. LOCATE RECEPTACLE BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- PROVIDE DATA OUTLET FOR PROJECTOR. LOCATE THE OUTLET BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- PROVIDE SURFACE MOUNTED WIREMOLD RACEWAY BETWEEN THE PROJECTOR AND THE CONTROL PAD UNIT. PROVIDE 1D CABLE.
- PROVIDE NEW RECEPTACLE (TP) FOR CONTROL PAD UNIT.
- CONNECT NEW RECEPTACLE TO THE EXISTING CIRCUIT OF THE DEMOLISHED RECEPTACLE. EXTEND EXISTING BRANCH CIRCUIT AR REQUIRED.



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VILLALOVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

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1 ADDENDUM 1 02/03/23

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BLDG B, H, & J FLOOR  
PLAN - NEW POWER &  
SIGNAL

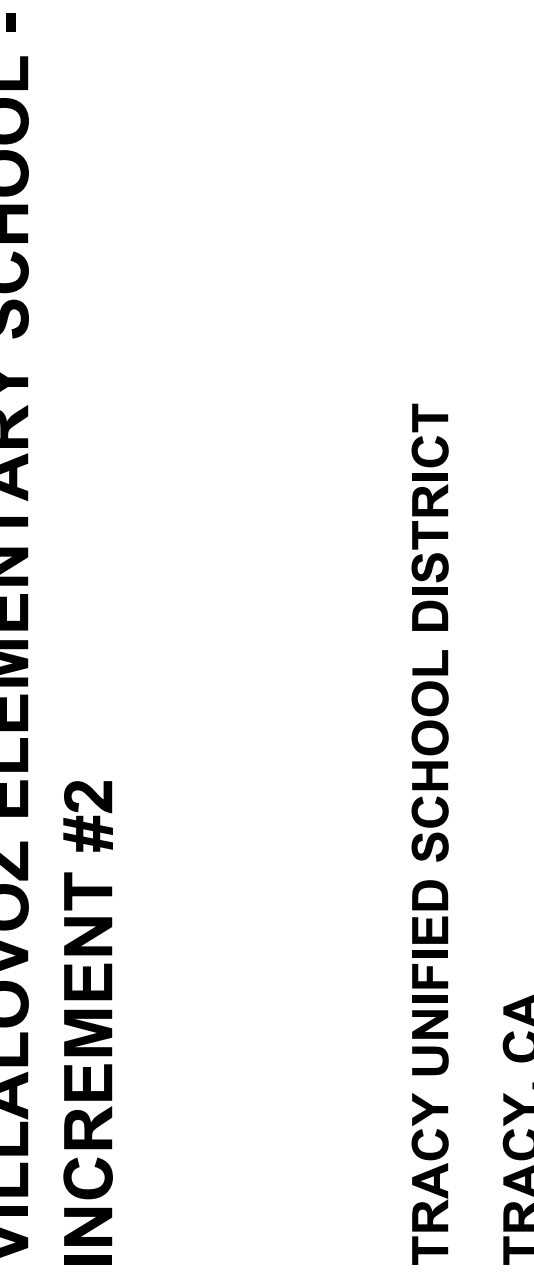
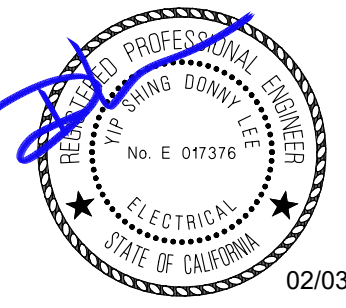
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DATE: 11/15/22  
SHEET

E2.2.4-2

AD1.21





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I	ADDENDUM 1	02/03/23

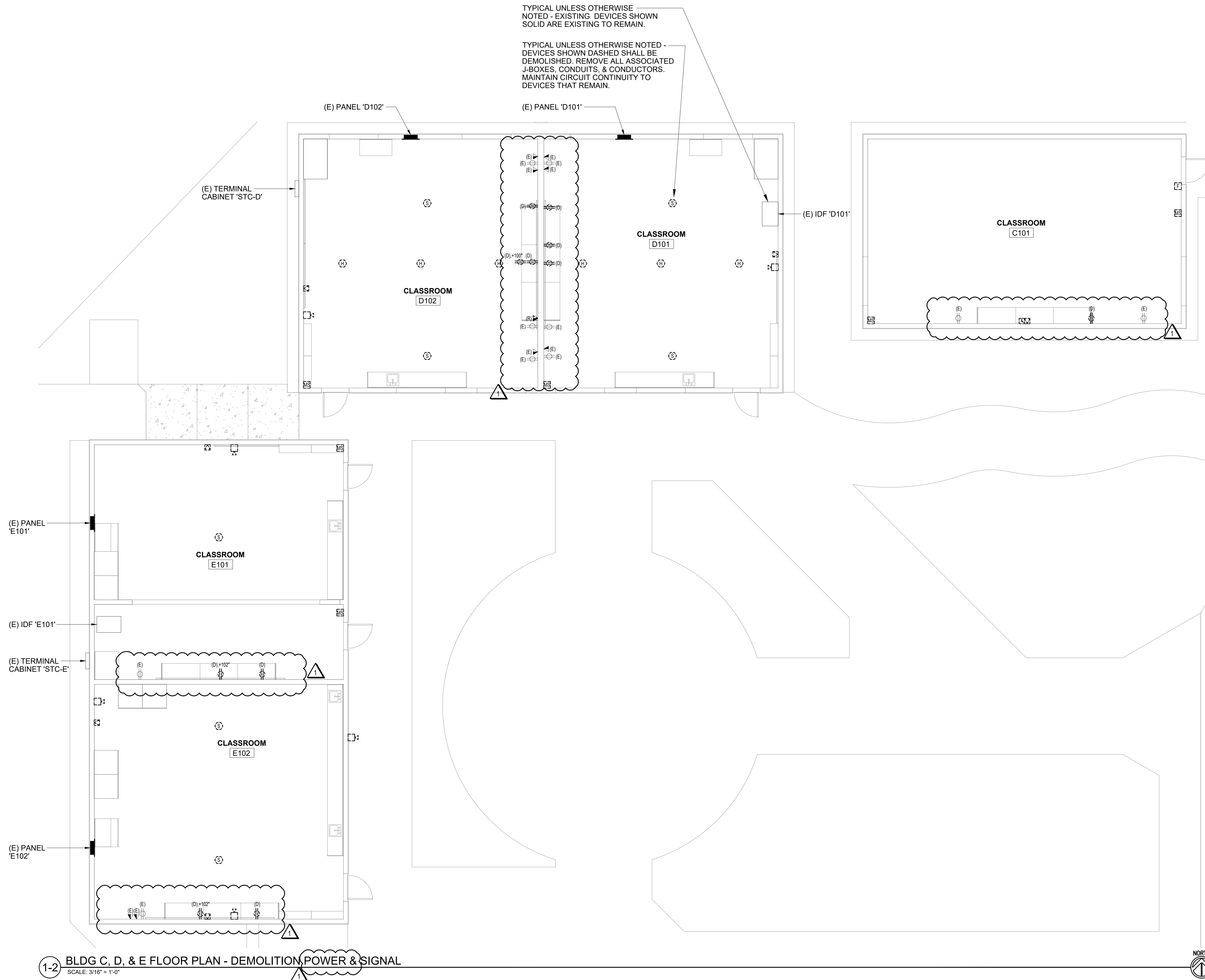
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LDG C, D, & E FLOOR  
PLAN - DEMOLITION  
POWER & SIGNAL

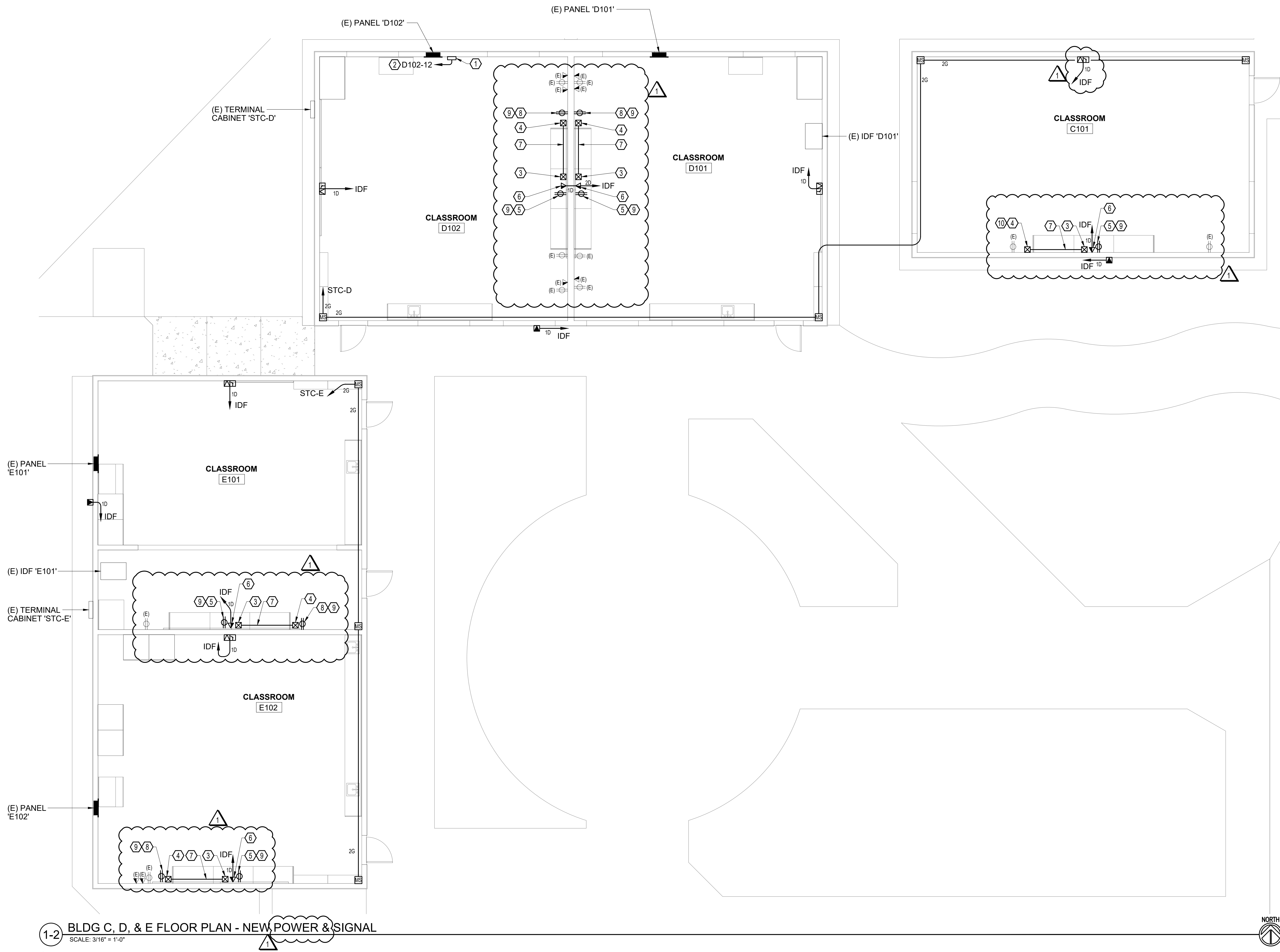
## INCREMENT #2

PROJECT NO.	151
DATE:	11/15/2011
DEPARTMENT:	EET

AD1.22



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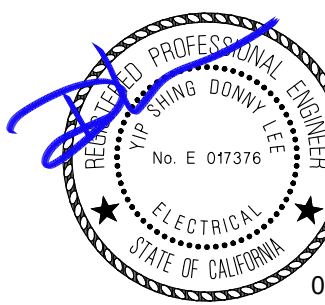
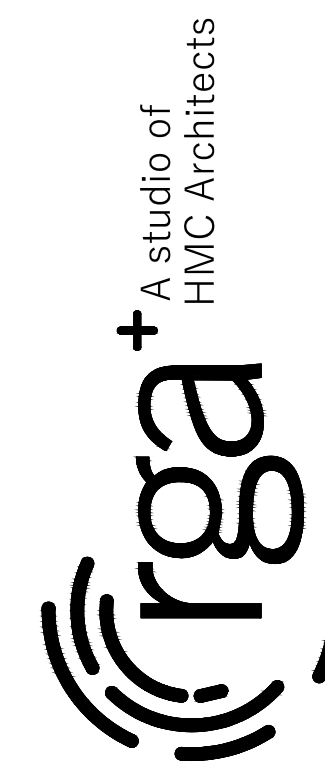
1-2 BLDG C, D, & E FLOOR PLAN - NEW POWER & SIGNAL  
SCALE: 3/16" = 1'-0"

## SHEET NOTES

1. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
2. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

## NUMBERED NOTES

1. INTRUSION ALARM POWER SUPPLY 'IAPS-D', 120V, 1.45A, ROUTE 2G TO 'STC-D'.
2. PROVIDE NEW 20A/1P CIRCUIT BREAKER, MATCH EXISTING AIC RATING. CIRCUIT BREAKER TO ALSO FEED FIRE ALARM POWER SUPPLY.
3. PROJECTOR, SEE ARCHITECTURAL PLAN.
4. CONTROL PAD UNIT, SEE ARCHITECTURAL PLAN. COORDINATE THE EXACT LOCATION FOR THE CONTROL PAD UNIT WITH THE ARCHITECT.
5. PROVIDE RECEPTACLE (TP) FOR PROJECTOR. LOCATE RECEPTACLE BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
6. PROVIDE DATA OUTLET FOR PROJECTOR. LOCATE THE OUTLET BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
7. PROVIDE SURFACE MOUNTED WIREMOLD RACEWAY BETWEEN THE PROJECTOR AND THE CONTROL PAD UNIT. PROVIDE 1D CABLE.
8. PROVIDE NEW RECEPTACLE (TP) FOR CONTROL PAD UNIT.
9. CONNECT NEW RECEPTACLE TO THE EXISTING CIRCUIT OF THE DEMOLISHED RECEPTACLE. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
10. PLUG CONTROL PAD UNIT POWER INTO NEARBY EXISTING RECEPTACLE.



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VILLALOVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision	
1	ADDENDUM 1 02/03/23

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BLDG C, D, & E FLOOR  
PLAN - NEW POWER &  
SIGNAL

INCREMENT #2

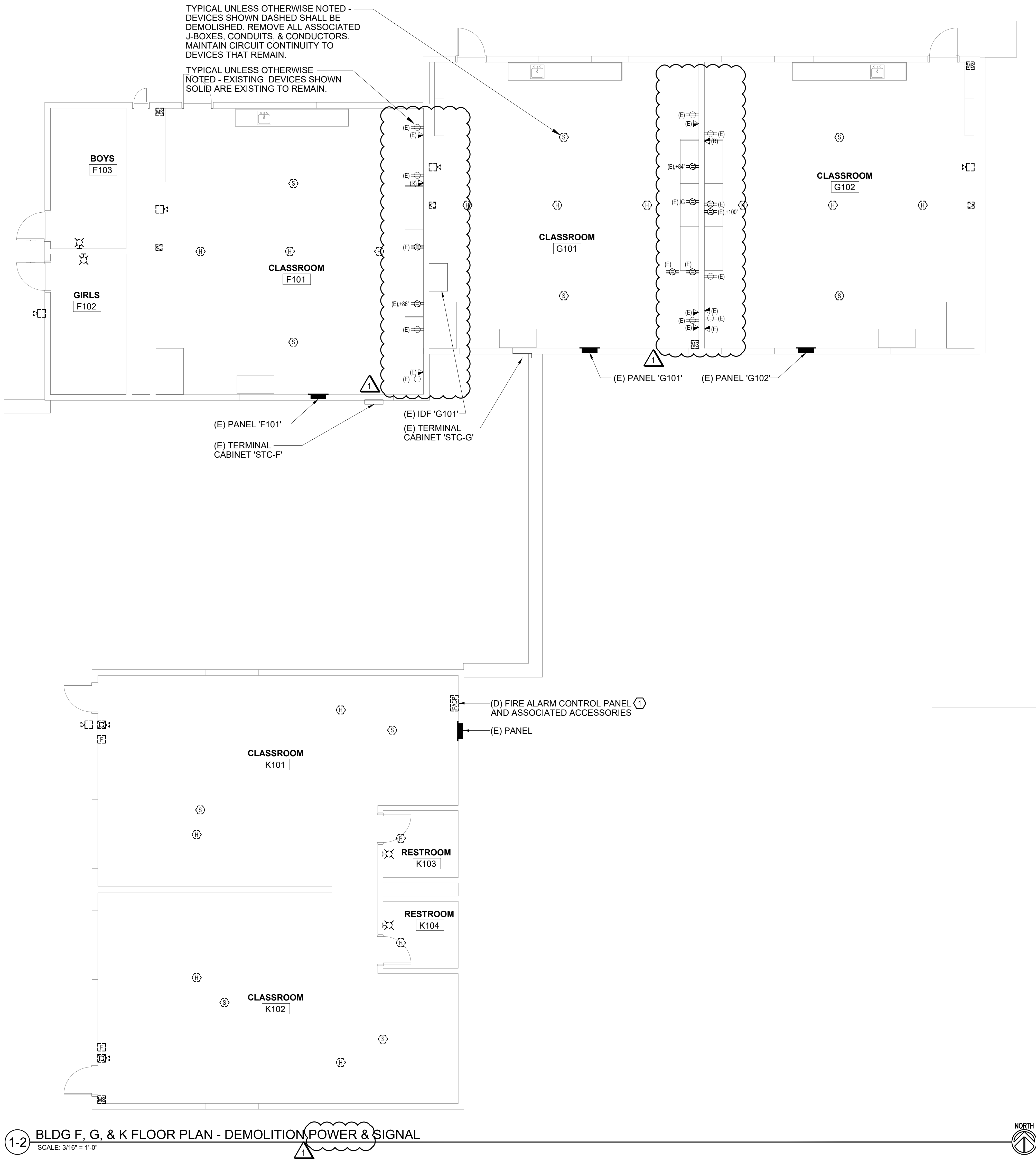
PROJECT NO. 1515  
DATE: 11/15/22  
SHEET

E2.3.4-2

AD1.23

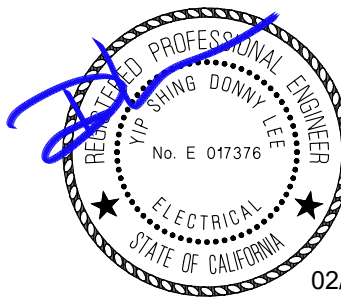
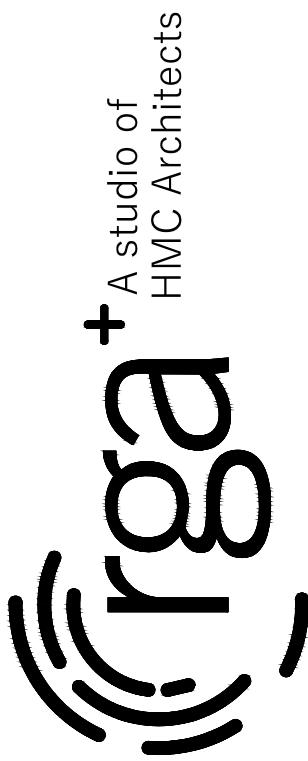


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SHEET NOTES

1. THE EXISTING INTRUSION ALARM, FIRE ALARM,  
AND CLOCK/SPEAKER SYSTEM SHALL BE  
DEMOLISHED AND REPLACED WITH NEW.  
REMOVE THE HEAD END EQUIPMENT, THE  
ASSOCIATED DEVICES, AND ACCESSORIES.  
REMOVE ALL ABANDONED CONDUIT, WIRING,  
AND DEVICES. COORDINATE WITH OWNER IF  
THE SYSTEMS DEVICES ARE TO BE RETURNED  
TO TRACY UNIFIED SCHOOL DISTRICT.



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NUMBERED NOTES

- ① REMOVE EQUIPMENT AND RETURN TO OWNER.

VILLALVOZ ELEMENTARY SCHOOL -  
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
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Revision

1	ADDENDUM 1	02/03/23

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BLDG F, G, & K FLOOR  
PLAN - DEMOLITION  
POWER & SIGNAL

INCREMENT #2

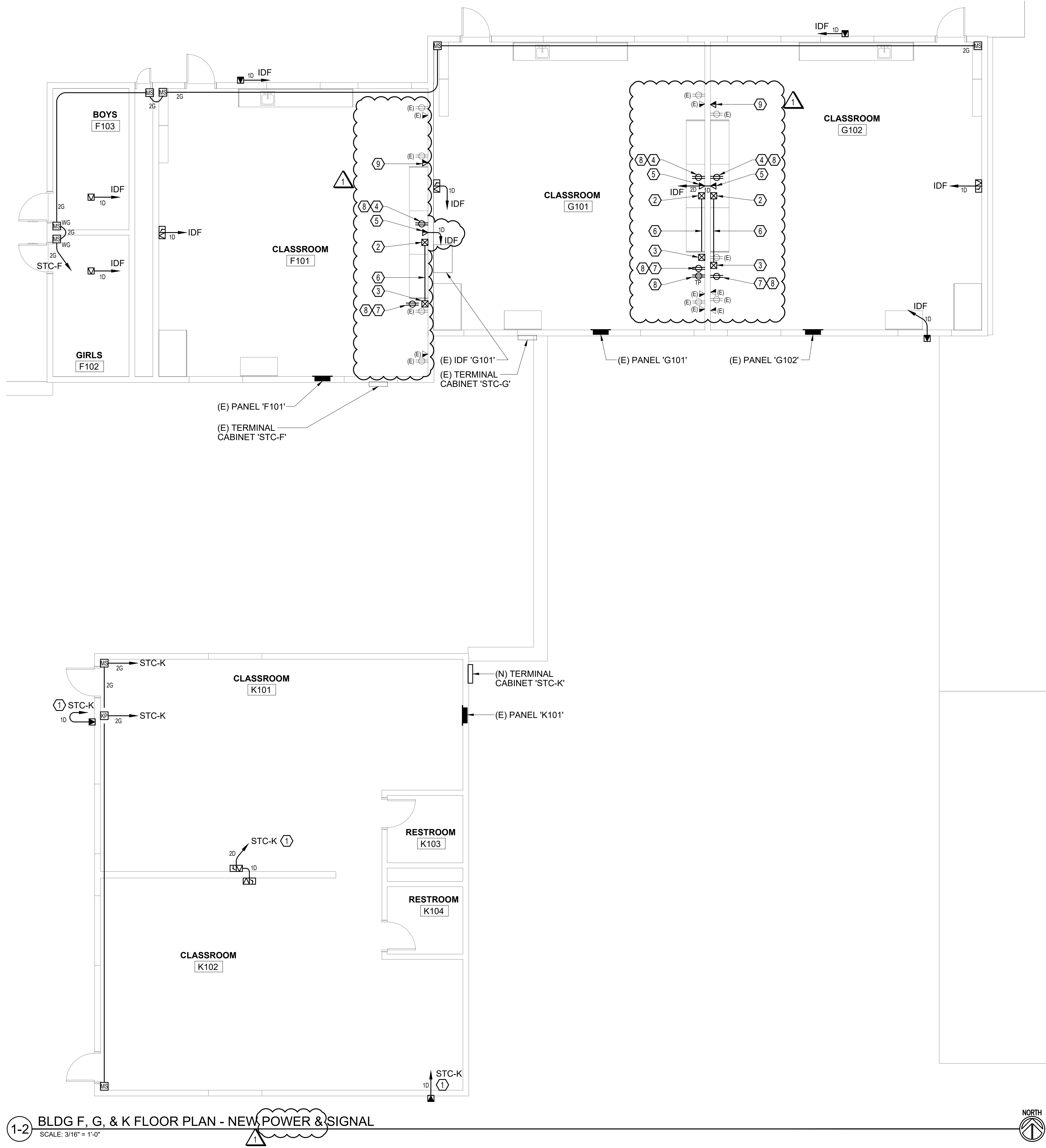
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DATE: 11/15/22  
SHEET

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AD1.24



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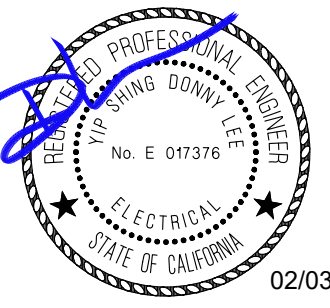
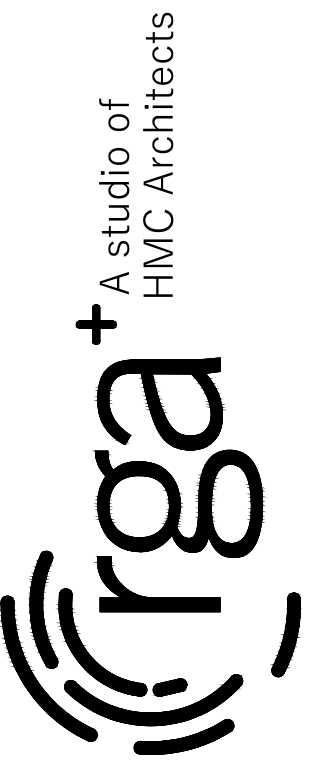
1-2 BLDG F, G, & K FLOOR PLAN - NEW POWER & SIGNAL  
SCALE: 3/16" = 1'-0"

## SHEET NOTES

- UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
- WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

## NUMBERED NOTES

- TO IDF IN ROOM G101 VIA 'STC-K' AND 'STC-F'.
- PROJECTOR, SEE ARCHITECTURAL PLAN.
- CONTROL PAD UNIT, SEE ARCHITECTURAL PLAN. COORDINATE THE EXACT LOCATION FOR THE CONTROL PAD UNIT WITH THE ARCHITECT.
- PROVIDE RECEPTACLE (TP) FOR PROJECTOR. LOCATE RECEPTACLE BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- PROVIDE DATA OUTLET FOR PROJECTOR. LOCATE THE OUTLET BEHIND THE PROJECTOR WALL MOUNT COVER PLATE. COORDINATE INSTALLATION LOCATION WITH THE EXACT EQUIPMENT PROVIDED.
- PROVIDE SURFACE MOUNTED WIREMOLD RACEWAY BETWEEN THE PROJECTOR AND THE CONTROL PAD UNIT. PROVIDE 1D CABLE.
- PROVIDE NEW RECEPTACLE (TP) FOR CONTROL PAD UNIT.
- CONNECT NEW RECEPTACLE TO THE EXISTING CIRCUIT OF THE DEMOLISHED RECEPTACLE. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
- EXISTING RELOCATED DATA OUTLET. REROUTE EXISTING CABLE TO NEW DEVICE LOCATION.



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VILLALVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA

Revision		
1	ADDENDUM 1	02/03/23

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**BLDG F, G, & K FLOOR PLAN - NEW POWER & SIGNAL**

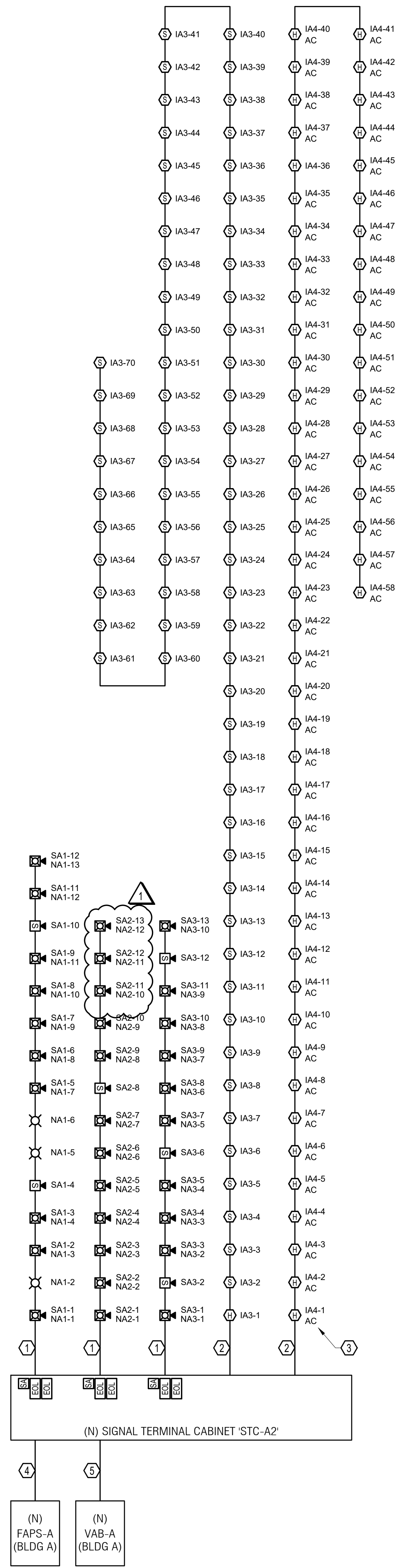
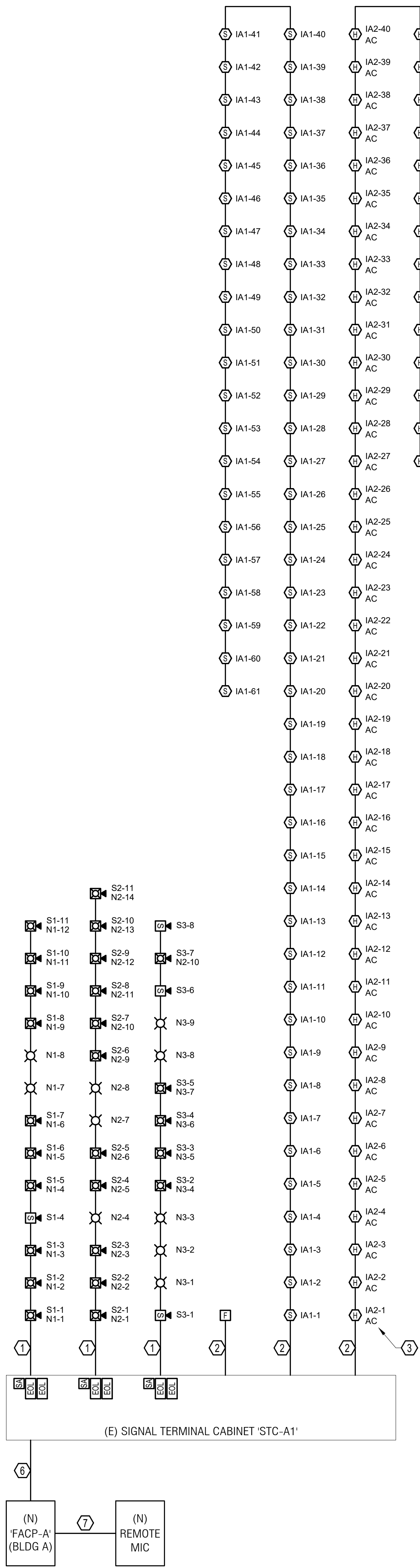
INCREMENT #2

PROJECT NO. 1515  
DATE: 11/15/22  
SHEET

**E2.4.4-2**

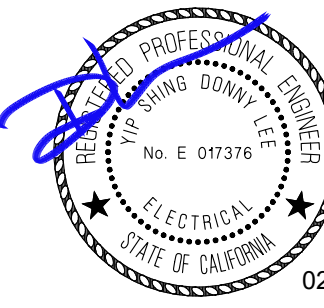
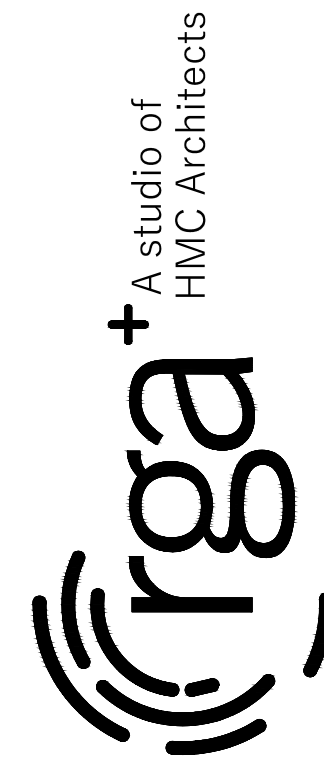
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## NUMBERED NOTES

- ① 3/4" C W/ 2N & 2S, TYPICAL, UNLESS OTHERWISE NOTED.
- ② 3/4" C W/ 1I TYPICAL, UNLESS OTHERWISE NOTED.
- ③ PROVIDE MONITOR MODULE AND EOL RESISTOR FOR ABOVE CEILING HEAT DETECTOR, TYPICAL.
- ④ 1" C W/ 2IX, 3H, & 4N.
- ⑤ 1" C W/ 2TX & 2S.
- ⑥ 2" C W/ 3IX, 2TX, 4N, & 4S.
- ⑦ 1" C W/ 2I & 1H.



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INCREMENT #2

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## FIRE ALARM RISER DIAGRAM

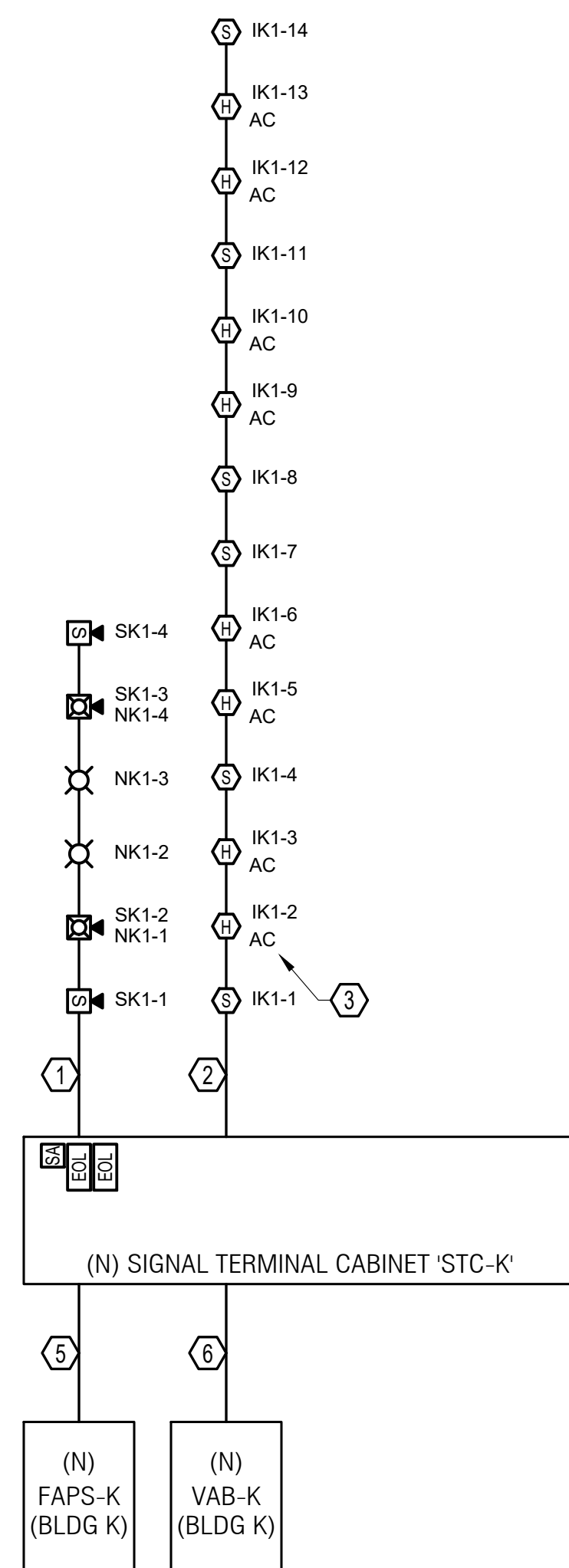
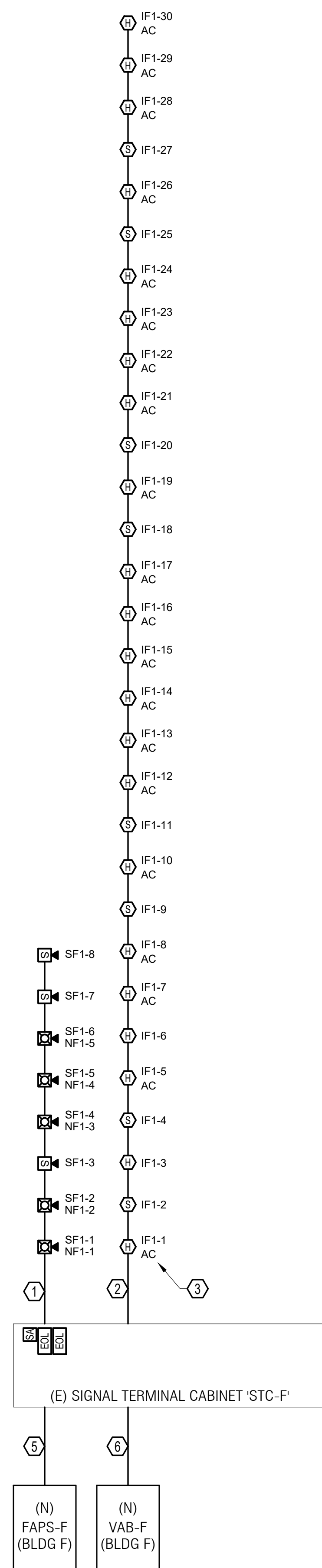
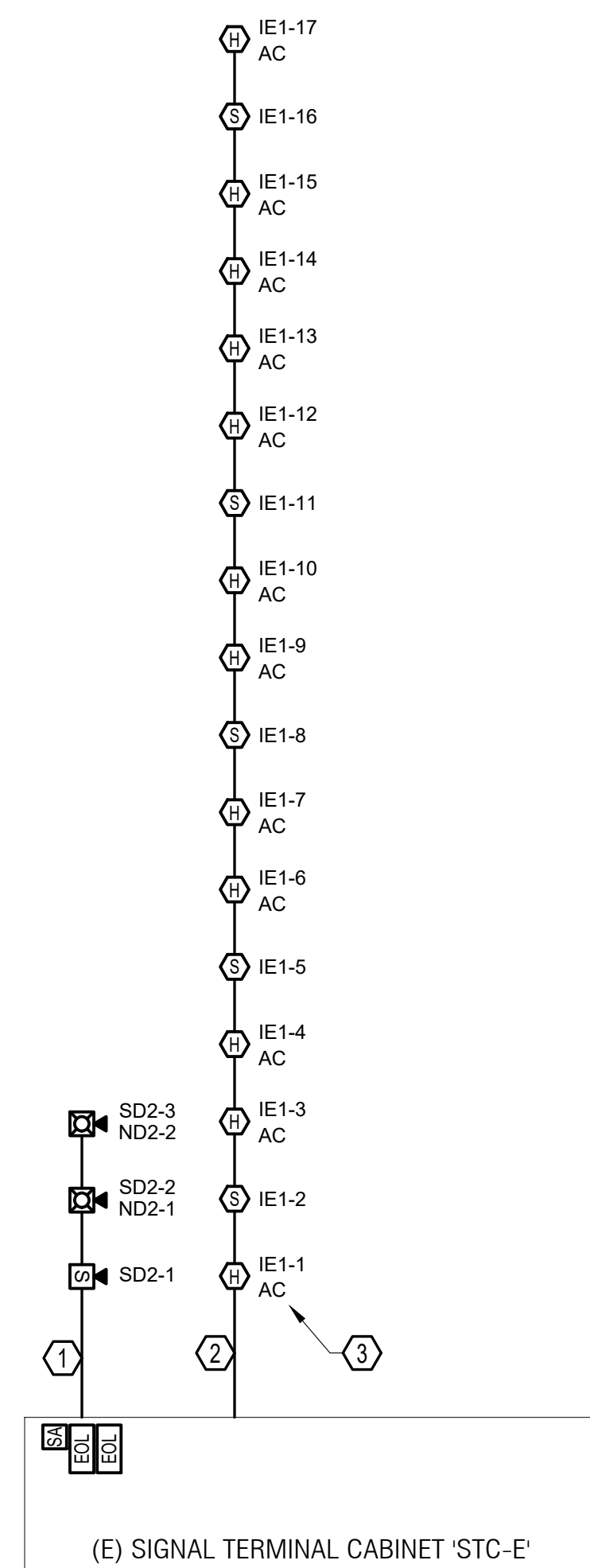
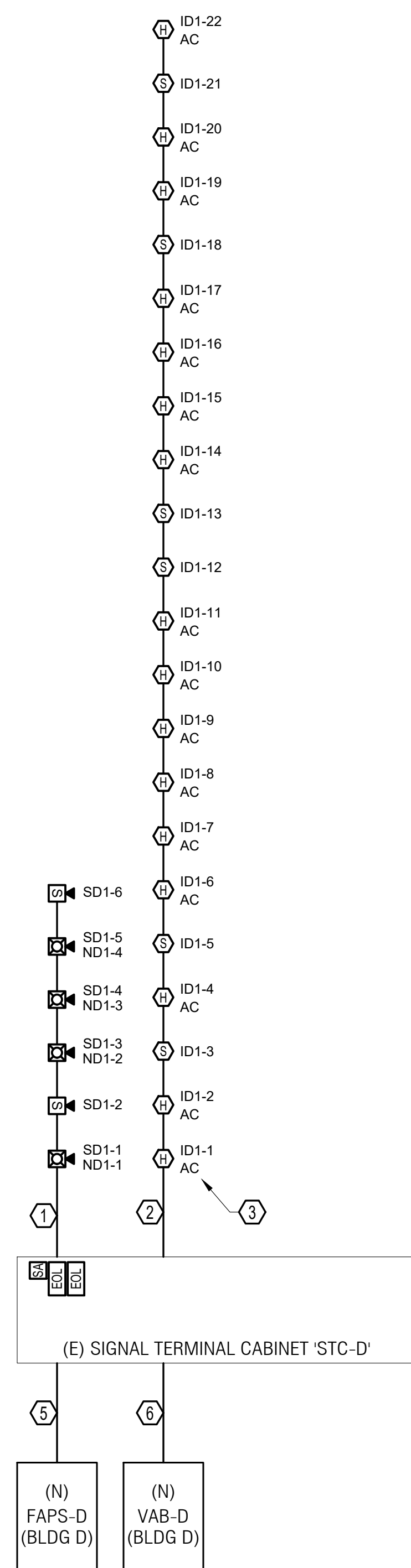
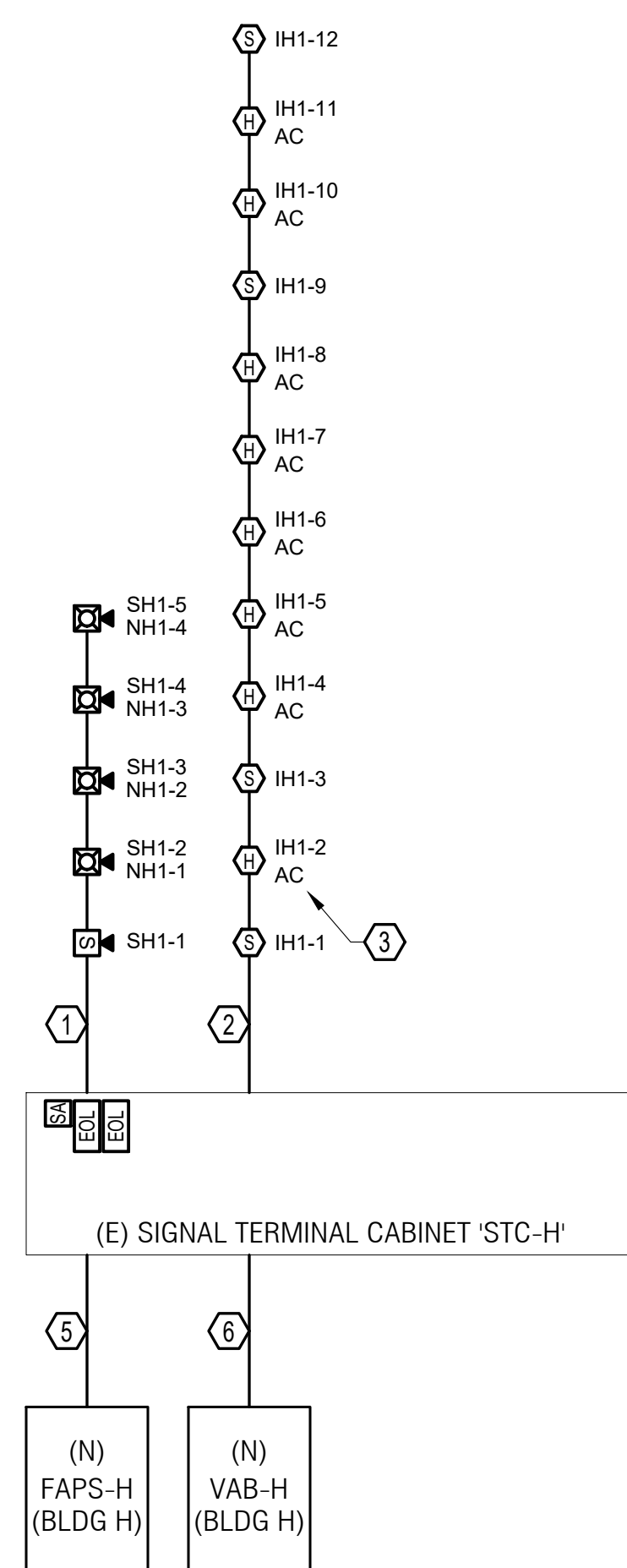
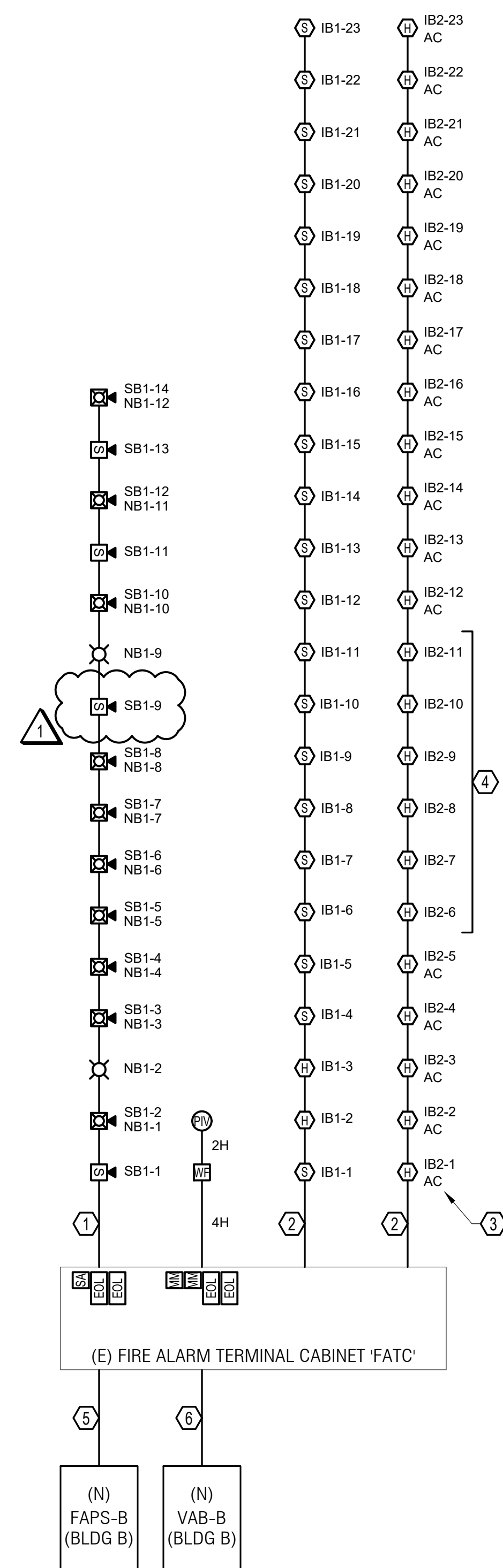
INCREMENT #2

PROJECT NO. 1515  
DATE: 11/15/22  
SHEET

E3.1.2-2

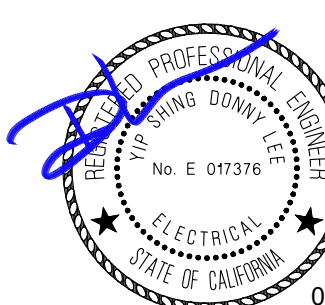
AD1.26





- ## NUMBERED NOTES

- ① 3/4" W/ 2N & 2S. TYPICAL, UNLESS OTHERWISE NOTED.
- ② 3/4" W/ 1I TYPICAL, UNLESS OTHERWISE NOTED.
- ③ PROVIDE MONITOR MODULE AND EOL RESISTOR FOR ABOVE CEILING HEAT DETECTOR, TYPICAL.
- ④ PROVIDE MONITOR MODULE AND EOL RESISTOR FOR BELOW FLOOR HEAT DETECTOR, TYPICAL.
- ⑤ 1" W/ 2IX, 3H, & 4N.
- ⑥ 1" W/ 2TX & 2S.



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**VILLALVOZ ELEMENTARY SCHOOL -  
INCREMENT #2**

TRACY UNIFIED SCHOOL DISTRICT  
TRACY, CA



1	ADDENDUM 1	02/03/23
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## FIRE ALARM RISER DIAGRAM

## INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/2
SHEET	



Appliance Circuit Voltage Drop:										N38
This calculator provided voltage drop calculations in a Point-to-Point method.										
Resistance Value										
16-10 AWG = Solid Conductors										
Nominal System Voltage										
Minimum Device Voltage										
Value is in Amps										
Distance is measured in feet.										
eg.: 100 = 100 mA										
Model	Device	Device	Device	Distance	Wire	Ohm's	At	Drop from	Percent	
Number	Description	N3	N3	from previous device	Gauge	Per 1000'				
ELSTRC (75cd)	Stroke, Ceiling, 75cd	N3 -1	0.08	65	20	23.90	23.90	0.34	0.43	
ELSTRC (15cd)	Stroke, Ceiling, 15cd	N3 -2	0.022	29	12	20.1	23.87	0.132	0.55	
ELSTRC (15cd)	Stroke, Ceiling, 15cd	N3 -3	0.022	18	12	20.1	23.85	0.148	0.62	
ELSPSTR (30cd)	Speaker/Stroke, Ceiling, 30cd	N3 -4	0.03	21	12	20.1	23.83	0.165	0.69	
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	N3 -5	0.022	30	12	20.1	23.82	0.178	0.75	
ELSPSTR (15cd)	Speaker/Stroke, Wall, 15cd	N3 -6	0.022	30	12	20.1	23.80	0.197	0.82	
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	N3 -7	0.022	13	12	20.1	23.80	0.203	0.85	
ELSTRC (15cd)	Stroke, Ceiling, 15cd	N3 -8	0.022	17	12	20.1	23.79	0.210	0.88	
ELSTRC (15cd)	Stroke, Ceiling, 15cd	N3 -9	0.022	14	12	20.1	23.78	0.215	0.90	
ELSPSTR (75cd)	Speaker/Stroke, Wall, 75cd	N3 -10	0.06	65	12	20.1	23.77	0.231	0.96	
Summary:		Total	0.304	312			23.77	0.231	0.96	
Available Amp on Circuit		2 A	End of Line Voltage				23.77 V			
Remaining Amp on Circuit		1.696 A	Total Voltage Drop				0.231 V			
Remaining Amp % on Circuit		84.80%	Voltage Drop %				1.13%			

# Appliance Circuit Voltage Drop:

This calculator provided voltage drop calculations in a Point-to-Point format.

Resistance for copper wire: 18-0=08, 16-0=08, 14-3=19, 12-2=01, 10-1=26

Resistance for copper wire based on NEC Chapter 9, Table 8.

Minimum System Voltage

Nominal Device Voltage

Value is in Amps.

Distance is measured in feet.

eg.: 100 = 100 mA

Model	Device	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	At	Drop from previous	Percent
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	NAC3-1	0.08	47	20	23.92	23.92	0.30	0.02
ELSPSTR (15cd)	Speaker/Stroke, Wall, 75cd	NAC3-2	0.022	67	12	2.01	26.83	0.172	0.72
ELSPSTR (15cd)	Speaker/Stroke, Wall, 75cd	NAC3-3	0.06	24	12	2.01	28.80	0.203	0.85%
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	NAC3-4	0.022	48	12	2.01	23.74	0.256	0.70%
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	NAC3-5	0.022	12	20	23.92	23.92	0.256	0.70%
ELSPSTR (15cd)	Speaker/Stroke, Wall, 75cd	NAC3-6	0.06	52	12	2.01	26.65	0.347	1.45%
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	NAC3-7	0.022	15	12	2.01	23.64	0.357	1.49%
ELSPSTR (15cd)	Speaker/Stroke, Ceiling, 15cd	NAC3-8	0.022	19	12	2.01	23.63	0.374	1.56%
ELSPSTR (75cd)	Speaker/Stroke, Wall, 75cd	NAC3-9	0.06	33	12	2.01	23.61	0.390	1.62%
ELSPSTR (75cd)	Speaker/Stroke, Wall, 75cd	NAC3-10	0.06	76	12	2.01	23.59	0.408	1.70%
Total			0.410	437		23.59		0.408	1.70%

Summary:

Available Amp on Circuit

Remaining Amp on Circuit

Remaining Amp % on Circuit

3 A

2.590 A

86.33%

End of Line Voltage Drop

Total Voltage Drop

Voltage Drop %

23.59 V

0.408 V

2.00%

SA3

Appliance Circuit Voltage Drop:

This calculator provided voltage drop calculations in a Point-to-Point format.

Resistance Value: 18-0.08, 18-5.08, 14-3.19, 12-2.01, 10-1.26

18-10 Awg = Solid Conductors

Resistance for copper wire based on NEC Chapter 9, Table 8.

Nominal System Voltage

25

Wire

Ohm's

Minimum Device Voltage

20.4

V

Gauge

Per 1000

Value is in Amps

eq. 100 = 100 mA

Distance is measured in feet.

Distance from

Voltage

Model Number	Device Description	Device Number	Current	previous device	Wire Gauge	Ohm's Per 1000	At Distance	Drop from source	Percent
ELSPST-1(12W)	Speaker/Strobe, Wall, 1/2W	SA3-1	0.02	47	12	2.01	24.92	0.081	0.32%
ET-1010-R (2W)	Speaker, Exterior, 2W	SA3-2	0.08	47	12	2.01	24.84	0.159	0.63%
ELSPST-3(12W)	Speaker/Strobe, Ceiling, 1/2W	SA3-3	0.02	20	12	2.01	24.81	0.185	0.74%
ELSPST-1(12W)	Speaker/Strobe, Wall, 1/2W	SA3-4	0.02	24	12	2.01	24.78	0.215	0.86%
ELSPST-3(12W)	Speaker/Strobe, Ceiling, 1/2W	SA3-5	0.02	19	12	2.01	24.73	0.272	1.09%
ET-1010-R (2W)	Speaker, Exterior, 2W	SA3-6	0.08	16	12	2.01	24.71	0.290	1.16%
ELSPST-1(12W)	Speaker/Strobe, Ceiling, 1/2W	SA3-7	0.02	25	12	2.01	24.68	0.292	1.16%
ELSPST-3(12W)	Speaker/Strobe, Wall, 1/2W	SA3-8	0.02	52	12	2.01	24.65	0.347	1.38%
ELSPST-3(12W)	Speaker/Strobe, Ceiling, 1/2W	SA3-9	0.02	20	12	2.01	24.64	0.356	1.43%
ELSPST-1(12W)	Speaker/Strobe, Ceiling, 1/4W	SA3-10	0.01	29	12	2.01	24.63	0.372	1.49%
ELSPST-3(12W)	Speaker/Strobe, Wall, 1/2W	SA3-11	0.02	33	12	2.01	24.61	0.387	1.55%
ET-1010-R (2W)	Speaker, Exterior, 2W	SA3-12	0.08	38	12	2.01	24.60	0.403	1.61%
ELSPST-1(12W)	Speaker/Strobe, Wall, 1/2W	SA3-13	0.02	38	12	2.01	24.59	0.406	1.62%
Total			0.436	End of Line Voltage				24.59	0.406
Summary:			Available Amp on Circuit	2.206 A	Total Voltage Drop				24.59 V
			Remaining Amp on Circuit	1.776 A	Total Voltage Drop %				0.406 V
			Remaining Amp % on Circuit	80.51%					1.99%