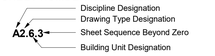
Abbreviations:

&	And	F.R.P.	Fiberglass Reinforced Plastic	P.D.F.	Power Driven Fastener
∠	Angle			PT.	Paint
@	At	F.V.	Field Verify	PR.	Pair
℄	Centerline	FIN.	Finish	PTN./PART.	Partition
°	Degree	F.F.E.	Finish Floor Elevation	PEN.	Penetration
PREP./⊥	Perpendicular	F.G.	Finish Grade	PERF.	Perforated
℄	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
ACOUS.	Acoustical	FLASH.	Flashing	PLYWD.	Plywood
ADJ.	Adjustable	F.H.M.B.	Flat Head Machine Bolt	LBS./#	Pound
AGGR.	Aggregate	F.H.M.S.	Flat Head Machine Screw	PRE-FAB.	Prefabricated
A.B.	Aggregate Base	F.H.W.S.	Flat Head Wood Screw	P.M.F.	Pressed Metal Frame
ALUM./AL.	Aluminum	FL./FLR.	Floor	P.T./P.T.D.F	Pressure Treated
AD	Area Drain	F.D.	Floor Drain		Douglas Fir
A.C.	Asphalt Concrete	FT.	Foot/Feet		
A.V.	Audio Visual	FTG.	Footing	R	Radius/Riser
AUTO.	Automatic	FND.	Foundation	R.W.L.	Rain Water Leader
		FURR.	Furring	RDWD.	Redwood
BM.	Beam			REF.	Refrigerator
BLK	Block	GALV.	Galvanized	REINF.	Reinforced
BLKG.	Blocking	G.I.	Galvanized Iron	REQ'D	Required
BD	Board	G.S.M.	Galvanized Sheet Metal	RET.	Return
BOT.	Bottom	G.W.H.	Gas Water Heater	R.D.	Roof Drain
BLDG.	Building	GA.	Gauge	RM.	Room
		GLU LAM./G.L.B.	Glue Laminated (Beam)	R.O.	Rough Opening
CAB.	Cabinet	G.B.	Grab Bar	R.H.W.S.	Round Head Wood Screw
CATV	Cable T.V.	GR.	Grade	R.B.	Rubber Base
C.I.	Cast Iron	GYP.	Gypsum		
C.B.	Catch Basin	GYP.BD.	Gypsum Wallboard	SECT.	Section
CLKG.	Caulking			S.SK.	Service Sink
CLG.	Ceiling	HDWR.	Hardware	SHT.	Sheet
CNTR./CTR.	Center	HDWD.	Hardwood	S.M.	Sheet Metal
CER.	Ceramic	HDR.	Header	S.M.S.	Sheet Metal Screw
C.L.	Chain Link	HVAC	Heating/Ventilating Air Conditioning	S.V.	Sheet Vinyl
CB	Chalkboard			SHR./SHWR.	Shower
C.R.	Classroom	H./HT.	Height	SIM.	Similar
CLR.	Clear	H.M.	Hollow Metal	S.C.	Solid Core
C.W.	Cold Water	HOR./ HORIZ.	Horizontal	S.	South
COL.	Column	H.B.	Hose Bib	Spec.	Specification
CONC.	Concrete	HR.	Hour (Fire Rating)	SQ.	Square
C.M.U.	Concrete Masonry Unit			SST./S.S.	Stainless Steel
CONN.	Connection	IN.	Inch	STD./STND.	Standard
CONST.	Construction	INFO.	Information	STL.	Steel
C.J.	Construction Joint/ Control Joint	I.D.	Inside Diameter	STOR.	Storage
		INSUL.	Insulation	S.D.	Storm Drain
CONT.	Continous	INT.	Interior	S.D.S.T.	Self-Drilling Self-Tapping
CONTR.	Contractor	INV.	Invert	S.F.	Square Feet
CORR.	Corridor			STRUCT.	Structural
C.M.P.	Corrugated Metal Pipe	JAN.	Janitor	SUSP.	Suspended
C.Y.	Cubic Yard	JT.	Joint	SYM.	Symbol
CUST.	Custodian	JST.	Joist		
				TB.	Tackboard
D.	Deep/Depth	KP.	Kickplate	TEL./TELE.	Telephone
DET / DTL.	Detail	KIT.	Kitchen	T.V.	Television
DIAG.	Diagonal			T.CLR.	Tempered Clear
DIA./ Ø	Diameter	LAM.	Laminate	T.L.T.	Tempered Low Transmission
DIM.	Dimension	LAV.	Lavatory	THK.	Thick
DIM.PT.	Dimension Point	LT.WT.	Light Weight	THRES.	Threshold
D.A.	Disable Accessible	L.F.	Lineal Feet	THRU.	Through
DW.	Dishwasher			T./TLT.	Toilet
DR.	Door	M.B.	Machine Bolt	T&G	Tongue & Groove
DBL.	Double	MH.	Manhole	T.O.	Top of
DN.	Down	MFR.	Manufacturer	T.O.C.	Top of Curb
DS.	Downspout	M.O.	Masonry Opening	T.O.P.	Top of Pavement
D.I.	Drain Inlet	MAT'L.	Material	T.O.W.	Top of Wall/Top of Walk
DWG.	Drawing	MAX.	Maximum	T.S.	Tube Steel
D.F.	Drinking Fountain	MECH.	Mechanical	TYP.	Typical
		MEMB.	Membrane		
EA.	Each	MTL.	Metal	U.O.N.	Unless Otherwise Noted
E.	East	MEZZ.	Mezzanine		
ELEC.	Electrical	MIN.	Minimum	VERT.	Vertical
E.W.C.	Electric Water Cooler	MISC.	Miscellaneous	V.G.D.F.	Vertical Grain Douglas Fir
E.W.H.	Electric Water Heater	M.P.	Multipurpose	V.W.C.	Vinyl Wall Covering
EL./ELEV.	Elevation				
EMER.	Emergency	(N)	New	WSCT.	Wainscot
ENCL.	Enclosure	NOM.	Nominal	W.C.	Water Closet
EQ.	Equal	N.	North	W.H.	Water Heater
E.F.	Exhaust Fan	N.I.C.	Not in Contract	WT.	Weight
(E)/EXIST.	Existing	N.T.S.	Not to Scale	W.W.M.	Welded Wire Mesh
EXP.	Expansion	NO./#	Number	W.	West/Width
E.J.	Expansion Joint			WDW	Window
EXT.	Exterior	O.F.O.I.	Owner Furnish, Owner Installed	W.G.	Wire Glass
				W/	With
F.O.C.	Face of Concrete/Curb	O.F.C.I.	Owner Furnish, Contractor Installed	W/O	Without
F.O.F.	Face of Finish			WD.	Wood
F.O.S.	Face of Studs	O.C.	On Center		
FB.	Fiberboard	OPP.	Opposite	YD.	Yard
F.R.L.	Fiberglass Reinforced Laminate	O.H.	Opposite Hand	Y.D.	Yard Drain
		O.D.	Outside Diameter		
		O.H.W.S.	Oval Head Wood Screw		
		O/	Over		
		OA.	Overall		

Symbol Legend:

SHEET NUMBERING SYSTEM



ROOM NAME and NUMBERING REFERENCE



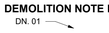
KEYNOTE REFERENCE
(All items indicated with a keynote are new)



SHEET NOTE REFERENCE



DEMOLITION NOTE REFERENCE



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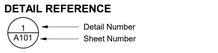

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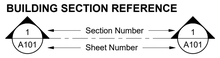

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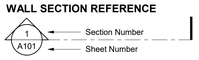


STRUCTURAL GRID IDENTIFIER
(center of framing)



STRUCTURAL GRID IDENTIFIER
(face of framing, concrete or CMU)



CENTERLINE

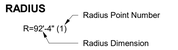
WORK POINT CONTROL



REVISION



RADIUS



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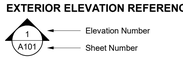

SPECIAL ELEVATION REFERENCE



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

Contact: VIPUL SAFI

Owner:

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

Contact: JAIME QUINTANA

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

Project Information:

SITE LOCATION
1550 CYPRESS DR.
TRACY, CA 95376

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TOTAL SHEET COUNT: 85

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:
  - a- REMOVAL OF THE (E) CLAY TILES AT UNIT A'S MANSARD ROOFS AND INSTALLATION OF (N) METAL ROOFING.
  - b- RE-COATING OF THE (E) SINGLEPLY ROOFING AND THE (E) METAL ROOFING
- INSTALLATION OF (N) LEARNING WALLS (CASEWORK & SHORT THROW PROJCTORS) 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

INCREMENT 3:
ADDITION OF (2) NEW PC SHADE STRUCTURES

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:

1. THE CONTRACTOR SHALL BE FAMILIAR WITH, AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY, FIRE AND LIFE-SAFETY OR ENERGY PORTIONS OF THE APPROVED PLANS AND SEPCIFICATIONS 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.
3. 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 APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR A-6.
4. A CLASS 2 "DSA CERTIFIED" PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE DSA AND PROVIDE CONTINUOUS INSPECTION IN ACCORDANCE WITH TITLE 24, PART 1, 4-342.
5. 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).
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
7. CONTRACTOR SHALL COMPLY W/ CFC CH. 33 - FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION

Deferred Approval:

NONE

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:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) 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 (b))

SIGNATURE DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

JEFFREY ALAN GRAU

PRINT NAME

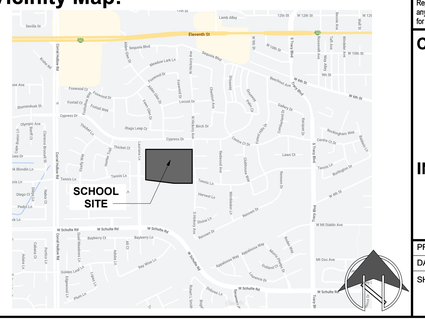
C-14648 5/31/23

LICENSE NUMBER EXPIRATION DATE

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

ELECTRICAL

Vicinity Map: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Thicket Ct
Tennis Ln
Lake Dr
Pond Ln
Willow Ln
Oleander Ln
Redwood Ln
Sycamore Ln
Pine Ln
W Schulte Rd
Mt Oso Ave
Mt Diablo Ave
Mt Shasta Ave
Mt Whitney Ave
Mt Hamilton Ave
Mt Lassen Ave
Mt Palomar Ave
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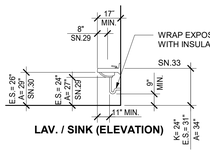
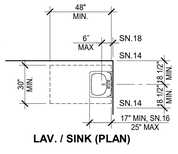
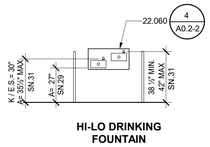
Mt Diablo



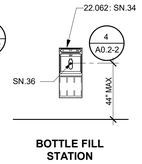
LAV. / SINK (ELEVATION)



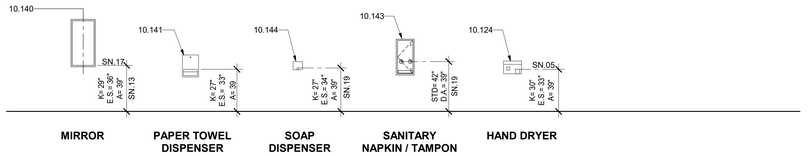
LAV. / SINK (PLAN)



HI-LO DRINKING FOUNTAIN

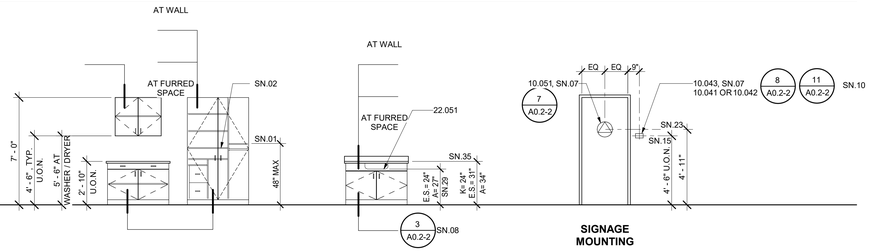


BOTTLE FILL STATION



MIRROR | PAPER TOWEL DISPENSER | SOAP DISPENSER | SANITARY NAPKIN / TAMPON DISPENSER | HAND DRYER

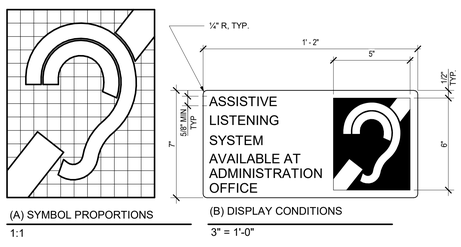
FIXTURE AND ACCESSORY HEIGHTS



CASEWORK | SINK CABINET | SIGNAGE MOUNTING

FURNITURE EQUIPMENT HEIGHTS

14 TYPICAL MOUNTING HEIGHTS AND ATTACHMENT REFERENCES
1/4" = 1'-0"

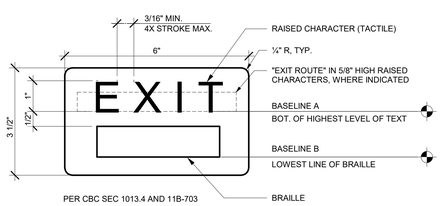


(A) SYMBOL PROPORTIONS
1:1

(B) DISPLAY CONDITIONS
3" = 1'-0"

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING IMPAIRED

15 02-15K - ASSISTIVE LISTENING SYSTEM
SCALE AS INDICATED

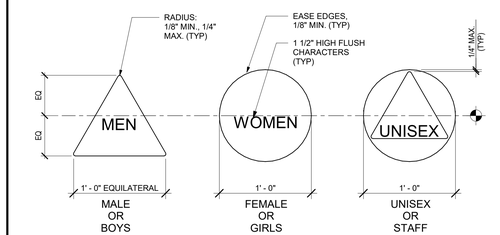


PER CBC SEC 1013.4 AND 11B-703

NOTES:

1. **BASELINE A = 59" A.F.F. MAX, BASELINE B = 49" A.F.F.MIN. (REFER TO 14/A0.2 FOR ACTUAL HEIGHT AND LOCATION).**
2. EACH GRADE - LEVEL EXTERIOR EXIT DOOR, WITH ILLUMINATED EXIT SIGN, SHALL BE IDENTIFIED BY "EXIT".
3. EACH EXIT DOOR FROM AN INTERIOR ROOM, WITH ILLUMINATED EXIT SIGN, SHALL BE IDENTIFIED BY "EXIT ROUTE".
4. EACH DOOR AT STAIRWAYS LEADING TO GRADE - LEVEL EXTERIOR EXIT SHALL BE IDENTIFIED BY "EXIT STAIR DOWN".
5. STAIR LANDINGS SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS.
6. EXIT DOORS LEADING TO EXIT BY MEANS OF AN EXIT ENCLOSURE, EXIT PASSAGEWAY OR EXTERIOR BALCONY SHALL BE IDENTIFIED BY "EXIT ROUTE"
7. INCREASE SIZE OF SIGN TO ACCOMMODATE ADDITIONAL TEXT AS NEEDED. CHARACTER HEIGHT, WHEN NOT INDICATED, SHALL BE 5/8" MIN.

11 TACTILE EXIT SIGNAGE
6" = 1'-0"

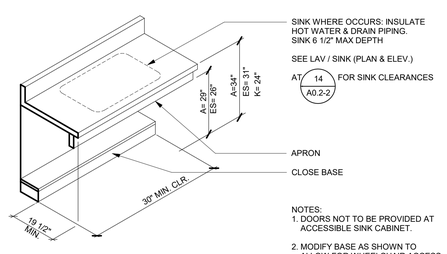


MALE OR BOYS | FEMALE OR GIRLS | UNISEX OR STAFF

NOTE:

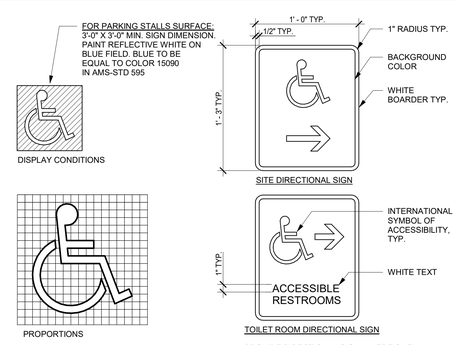
1. TEXT ON DOOR SYMBOL TO BE AS INDICATED ON DRAWINGS

7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"

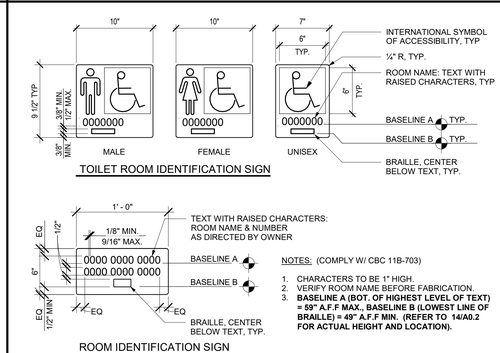


NOTES:
1. DOORS NOT TO BE PROVIDED AT ACCESSIBLE SINK CABINET.
2. MODIFY BASE AS SHOWN TO ALLOW FOR WHEELCHAIR ACCESS.
3. EXTEND FLOORING TO BACKSIDE OF CABINET.

3 DISABLED ACCESSIBLE CASEWORK
1/2" = 1'-0"



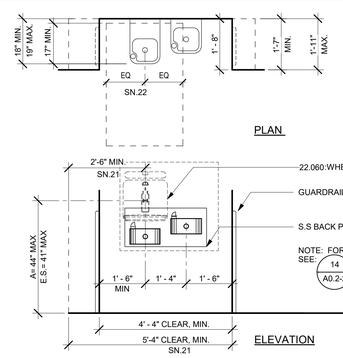
12 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



NOTES: (COMPLY W/ CBC 11B-703)

1. CHARACTERS TO BE 1" HIGH.
2. VERIFY ROOM NAME BEFORE FABRICATION.
3. **BASELINE A (BOT. OF HIGHEST LEVEL OF TEXT) = 59" A.F.F MAX., BASELINE B (LOWEST LINE OF BRAILLE) = 49" A.F.F MIN. (REFER TO 14/A0.2 FOR ACTUAL HEIGHT AND LOCATION).**

8 IDENTIFICATION SIGNS
1 1/2" = 1'-0"



4 DRINKING FOUNTAIN ALCOVE
1/2" = 1'-0"

LEGEND

A ADULT / STAFF
E.S. ELEMENTARY SCHOOL
K KINDERGARTEN

GENERAL NOTES

1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
2. ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

SHEET NOTES

SN.01 TOP OF SHELF
SN.02 MIDDLE SHELF FIXED
SN.03 PROVIDE 2X BLOCKING PER DETAIL
SN.04 AT ACCESSIBLE WATER CLOSETS, FLUSH CONTROL HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET ENCLOSURE
SN.05 TO OPERATOR OR PUSH BUTTON
SN.06 DIMENSION TO CENTERLINE OF TOILET PAPER ROLL POSITION
SN.07 PROVIDE AT ALL TOILET ROOM DOORS
SN.08 AT DISABLED ACCESSIBLE CASEWORK
SN.09 TO FACE OF FINISH
SN.10 FOR SIGNS MOUNTED BACK-TO-BACK ON WINDOW GLAZING, SEE SPECIFICATIONS FOR REQUIREMENTS.
SN.11 62" CLR MIN. TO FINISH WALL/ PARTITION/ FIXTURE
SN.12 TOP OF OPENING
SN.13 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER; TOP OF MIRROR 74" MIN. FOR HIGH SCHOOL & ADULTS.
SN.14 FACE OF OBJECTS OR WALLS
SN.15 CENTERLINE OF SIGN.
SN.16 19" MINIMUM AT SINK
SN.17 BOTTOM EDGE OF REFLECTIVE SURFACE
SN.18 FROM FARTHEST DEPTH OF THE CLEAR FLOOR SPACE TO FACE OF PLUMBING AND OTHER OBSTACLES
SN.19 TO CENTERLINE CONTROL.
SN.20 FRONT EDGE OF WATER CLOSET.
SN.21 AT CHILDREN'S DRINKING FOUNTAIN
SN.22 WHEELCHAIR, CLEAR FLOOR SPACE: 30"X48"
SN.23 CENTERLINE OF SYMBOL.
SN.24 WHERE SPECIFIED (ELEMENTARY / KINDERGARTEN)
SN.25 TOP OF GRAB BAR
SN.26 TOP OF SEAT
SN.27 LIP HEIGHT
SN.28 FLUSH HANDLE HEIGHT
SN.29 MINIMUM KNEE CLEARANCE
SN.30 MINIMUM APRON CLEARANCE
SN.31 BUBBLER HEIGHT
SN.32 NO TOILET MOUNTED FLUSH VALVE AT CHILDREN'S ACCESSIBLE WATER CLOSET
SN.33 MAXIMUM HEIGHT
SN.34 FOR BOTTLE FILL STATION AT DRINKING FOUNTAIN
SN.35 TO TOP OF SINK RIM, WHERE OCCURS.
SN.36 ACTIVATION SENSOR.

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
10.122 TOILET ACCESSORY: GRAB BAR
10.124 TOILET ACCESSORY: HAND DRYER
10.140 TOILET ACCESSORY: MIRROR
10.141 TOILET ACCESSORY: PAPER TOWEL DISPENSER
10.142 TOILET ACCESSORY: SANITARY NAPKIN DISPOSAL
10.143 TOILET ACCESSORY: SANITARY NAPKIN/TAMPON DISPENSER
10.144 TOILET ACCESSORY: SOAP DISPENSER
10.145 TOILET ACCESSORY: TOILET PAPER DISPENSER
10.146 TOILET ACCESSORY: TOILET SEAT COVER DISPENSER
22.040 WATER CLOSET
22.042 URINAL
22.051 SINK
22.060 DRINKING FOUNTAIN
22.062 BOTTLE FILL STATION

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VILLALOVOZ ELEMENTARY SCHOOL -
TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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TYPICAL MOUNTING HEIGHTS AND DETAILS

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A0.2-2**

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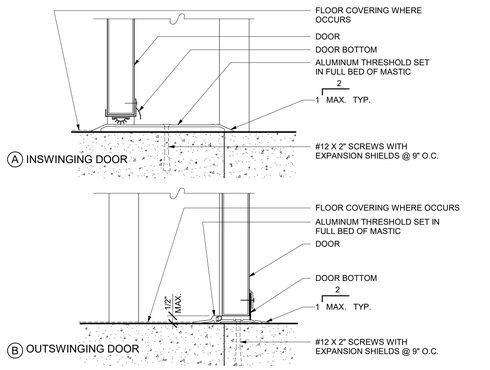
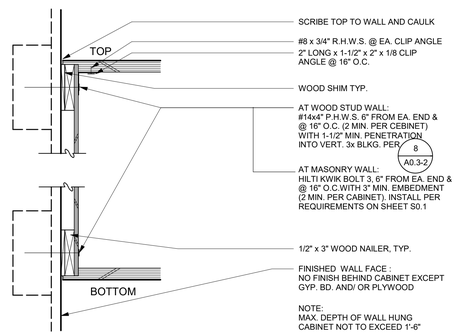


9 EXTERIOR DOOR THRESHOLD

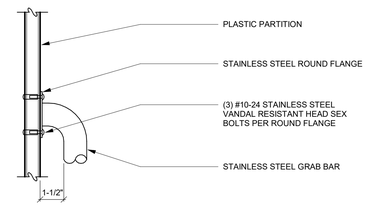
3" = 1'-0"

08030



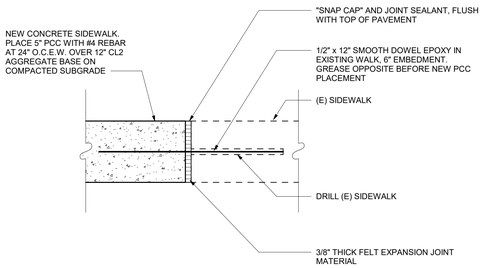
5 WALL HUNG CABINET ANCHORS

3" = 1'-0"



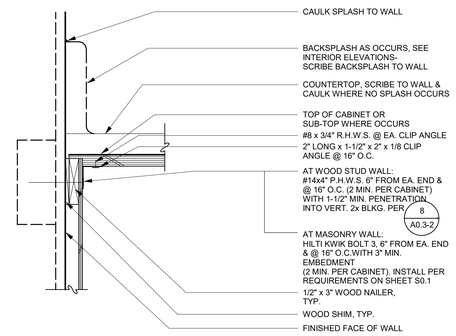
1 TYPICAL GRAB BAR AT PARTITIONS

3" = 1'-0"



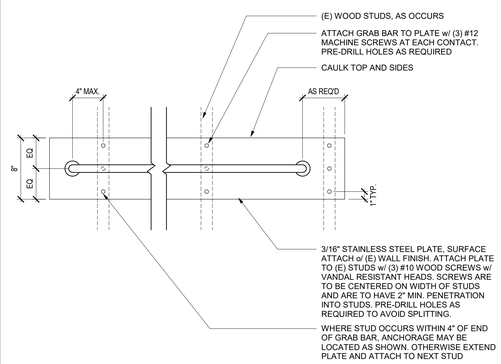
10 CONNECTION TO (E) CONCRETE

3" = 1'-0"



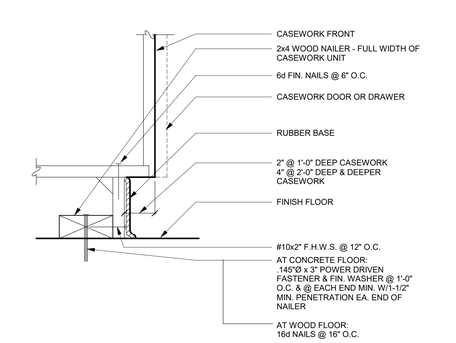
6 TOP / BASE CABINET ANCHOR

3" = 1'-0"



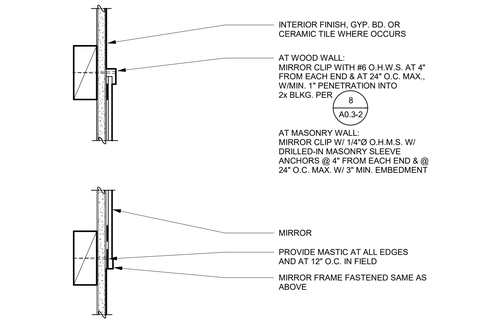
2 GRAB BAR - STAINLESS STEEL PLATE

1 1/2" = 1'-0"



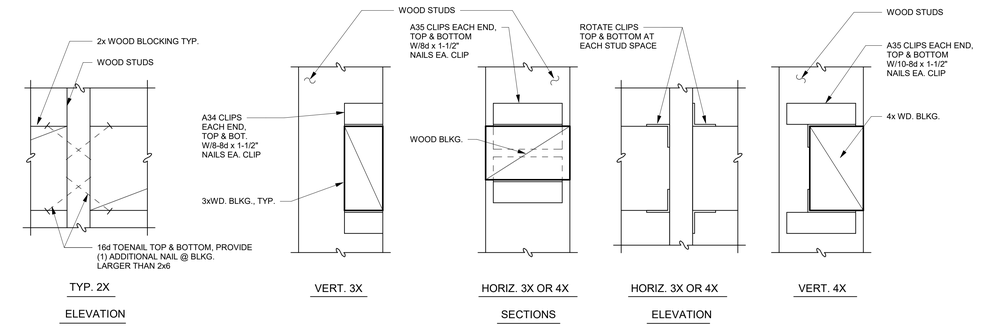
7 BASE CABINET ANCHOR

3" = 1'-0"



3 MIRROR ATTACHMENT

3" = 1'-0"



8 TYPICAL WOOD BLOCKING

3" = 1'-0"

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VILLALOVOZ ELEMENTARY SCHOOL - 700

TRACY UNIFIED SCHOOL DISTRICT

TRACY, CA

△ Revision

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TYPICAL DETAILS

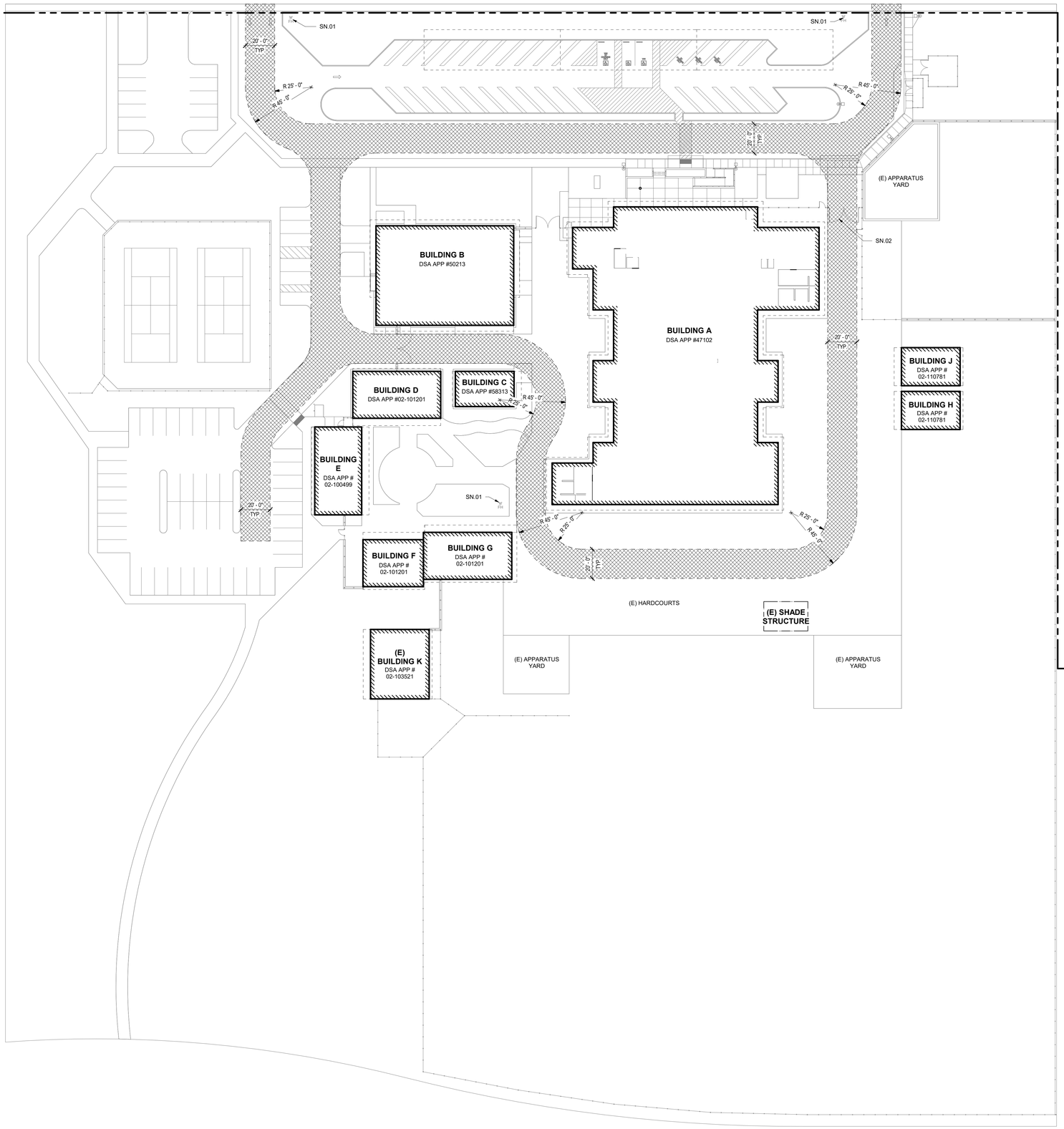
INCREMENT #2

PROJECT NO. **1515**

DATE: **12/21/2022**

SHEET

A0.3-2



1 LOCAL FIRE AUTHORITY SITE PLAN
1" = 30'-0"

LEGEND

- PROPERTY LINE
- BUILDING DESIGNATION
- (E) BUILDING
- CONCRETE WALK / PAVING
- ASPHALT CONCRETE PAVING
- (E) 20'-0" CLEAR FIRE ACCESS LANE PER DSA APP# 02-110781
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- FIRE HYDRANT (NTS)
- LINE OF ROOF OVERHANG ABOVE

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION

School District:	TRACY UNIFIED SCHOOL DISTRICT	
Project name / school:	VILLALOVOZ ELEMENTARY MODERNIZATION - INC. #1	
Project address:	1550 CYPRESS DR, TRACY, CA 95376	

FIRE & LIFE SAFTEY INFORMATION				ALTERNATE ACCEPTED
1.	Has a fire hydrant flow test been preformed within the past 12 months? ***(If yes, provide a copy of the test data)***	Yes ☐	No	X
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐	No	X
3.	Is the project located within a designated fire hazard serverity zone as established by Cal-Fire? ***(If yes, indicate fire hazard zone classification below)***	Yes ☐	No	X
	Refer to the following for fire hazard zone locations: ***www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps***	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) ***(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)***			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements			X	
4a.	**Acceptable Alternative:** Emergency vehicle and personel access as proposed by the architect is acceptable for providing fire suppression and protection of life and property				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements			X	
5a.	**Acceptable Alternative:** Number of fire hydrants and spacing as proposed by the architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternative:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.			X	
7a.	**Acceptable Alternative:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternate to California Building Code (CBC) and California Fire Code (CFC) minimum requirements as indicated by one of more of the conditions indicated at items 4a, 5a, 6a, or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

SHEET NOTES

SN.01 (E) FIRE HYDRANT
NOTE: A CURRENT FIRE FLOW TEST WILL BE PROVIDED IN INCREMENT #3
SN.02 20'-0" ORNAMENTAL METAL GATE WITH KNOX LOCK - INC. 1

A CURRENT FIRE FLOW TEST WILL BE PROVIDED IN INC. #3

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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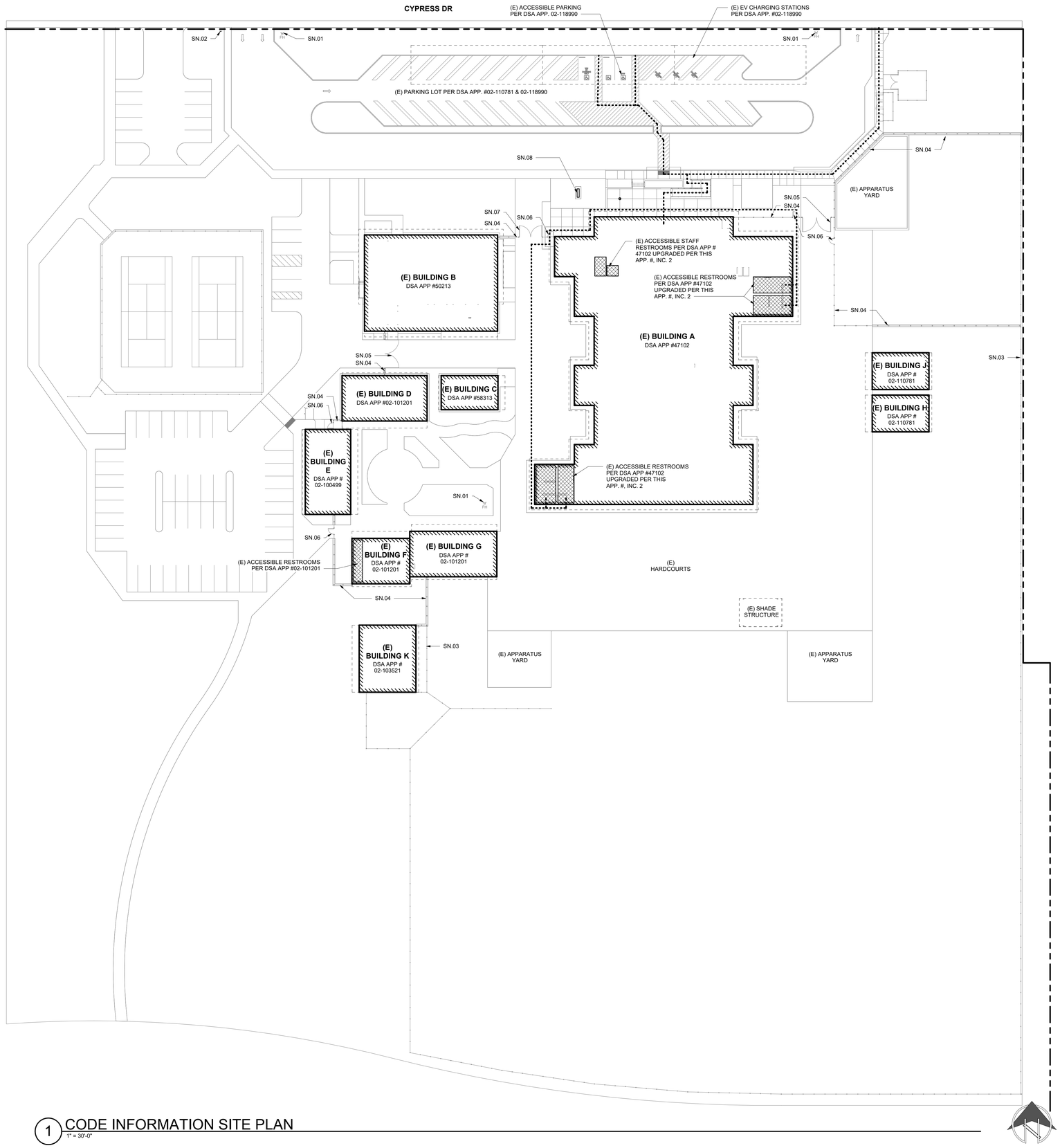
LOCAL FIRE AUTHORITY SITE PLAN

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A0.7-2

12/21/2022 3:45:58 PM C:\Users\amorgan\Documents_Abbr\Local Files\1515 Villalovoz Mod_CD.New_Abigail.McGirr.rvt



1 CODE INFORMATION SITE PLAN
1" = 30'-0"

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT

1) HAVE BEEN IDENTIFIED AND
2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT TO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE PARKING STALL CALCULATION

TOTAL PARKING STALL COUNT:	37 STALLS
ACCESSIBLE PARKING STALLS (PER CBC TABLE 11B-208.2):	
REQUIRED ACCESSIBLE STALLS:	2 (26-50 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 STANDARD & 2 VAN

EXISTING EV CHARGING STATIONS

TOTAL PARKING STALL COUNT:	37 STALLS
EV CHARGING STATIONS (PER CAL GREEN TABLE 5.106.5.3.3 & CBC 11B-228.3.2.1):	
REQUIRED EV CHARGING STATIONS:	4 (26-50 TOTAL STALLS)
REQUIRED ACCESSIBLE STATIONS:	0 (1-4 TOTAL EV STATIONS)
REQUIRED VAN ACCESSIBLE STATIONS:	1 (1-4 EV STATIONS)
(E) EV STATIONS PROVIDED:	3 EV STATIONS & 1 VAN ACCESSIBLE

LEGEND

- PROPERTY LINE
- BUILDING DESIGNATION
- (E) BUILDINGS
- CONCRETE WALK / PAVING
- ASPHALT CONCRETE PAVING
- (E) ACCESSIBLE RESTROOMS PER DSA APP. #47102
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- TRUNCATED DOMES
- ACCESSIBLE PATH OF TRAVEL, SEE DEFINITION ON THIS SHEET

ACCESSIBLE PATH OF TRAVEL

1. SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2". ONLY ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1-UNIT VERTICAL TO 2-UNITS HORIZONTAL.
2. WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATING WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
3. AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
4. SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1 UNIT VERTICAL TO 20-UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-505 SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
5. ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A LIGHT BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
6. OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
7. PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL
RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

SHEET NOTES

SN.01 (E) FIRE HYDRANT
SN.02 (E) TOW AWAY SIGN
SN.03 (E) CHAIN LINK FENCE
SN.04 ORNAMENTAL FENCE - THIS APP. #, INC. 1
SN.05 20'-0" ORNAMENTAL METAL FIRE ACCESS GATE WITH KNOX BOX- THIS APP. #, INC. 1
SN.06 ACCESSIBLE ORNAMENTAL METAL PEDESTRIAN GATE - THIS APP. #, INC. 1
SN.07 ORNAMENTAL METAL SERVICE GATE - THIS APP. #, INC. 1
SN.08 (E) MARQUEE TO BE REMOVED AND REPLACED w/ (N) ELECTRONIC MESSAGE SIGNAGE THIS APP. #, INC. 2

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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CODE INFORMATION SITE PLAN

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A0.8-2

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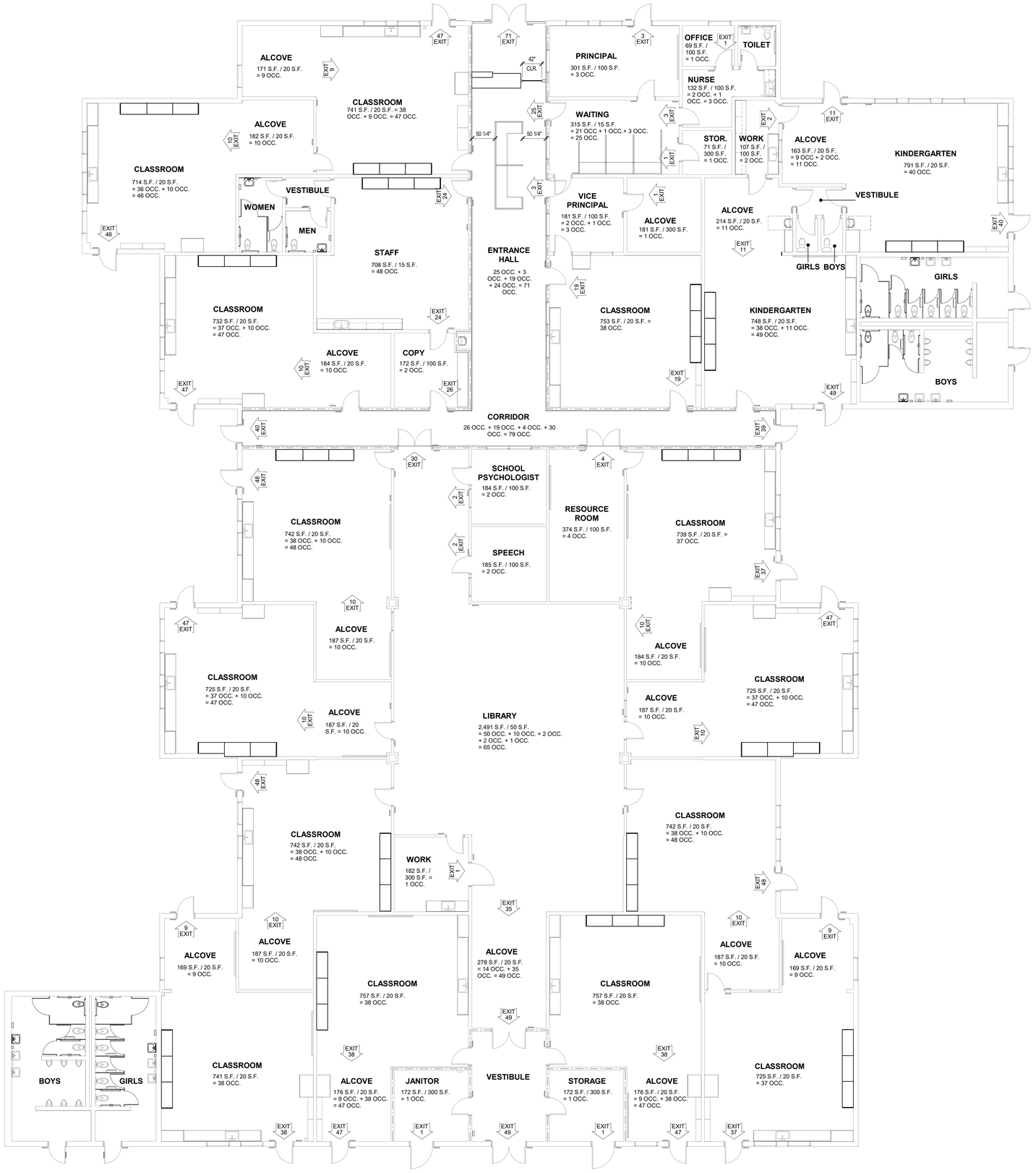

1 BUILDING A FLOOR PLAN
1/8" = 1'-0"

LEGEND

1-HOUR RATED WALL PER DSA APP #47102

EXITING OCCUPANTS
XX = NUMBER OF OCCUPANTS

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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TRACY, CA

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CODE INFORMATION EXITING PLAN - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A0.9.1-2

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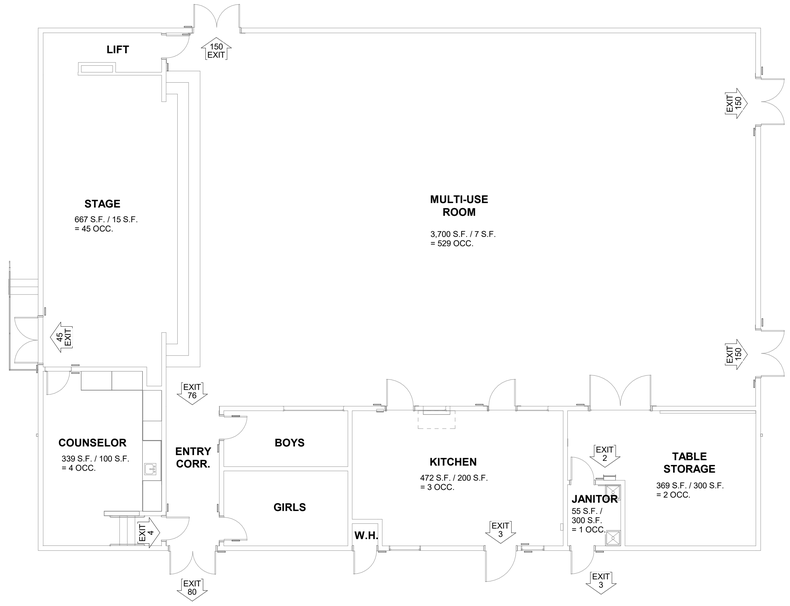
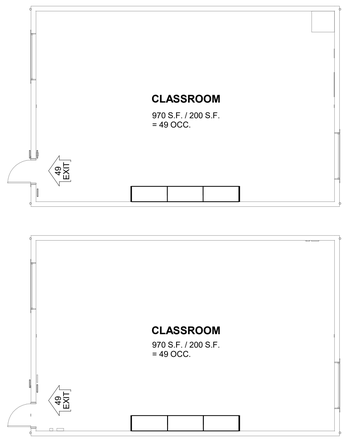
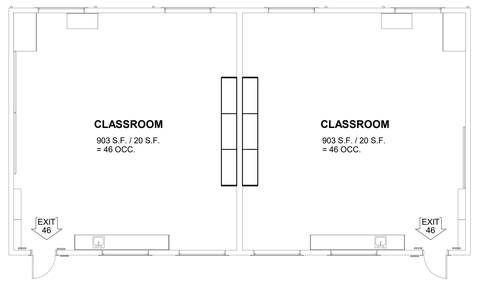


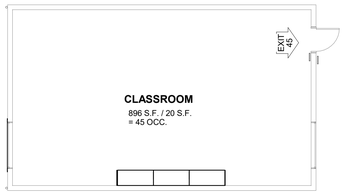
1 BUILDING B FLOOR PLAN
1/8" = 1'-0"



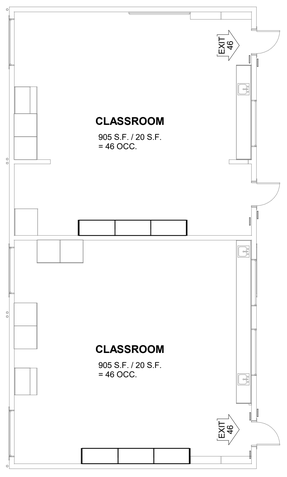
5 BUILDINGS H AND J FLOOR PLANS
1/8" = 1'-0"



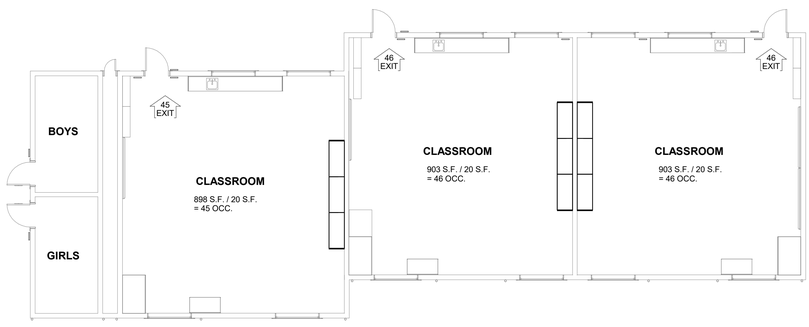
3 BUILDING D FLOOR PLAN
1/8" = 1'-0"



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



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



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

LEGEND

1-HOUR RATED WALL PER DSA APP #47102

EXIT XX — EXITING OCCUPANTS
XX = NUMBER OF OCCUPANTS

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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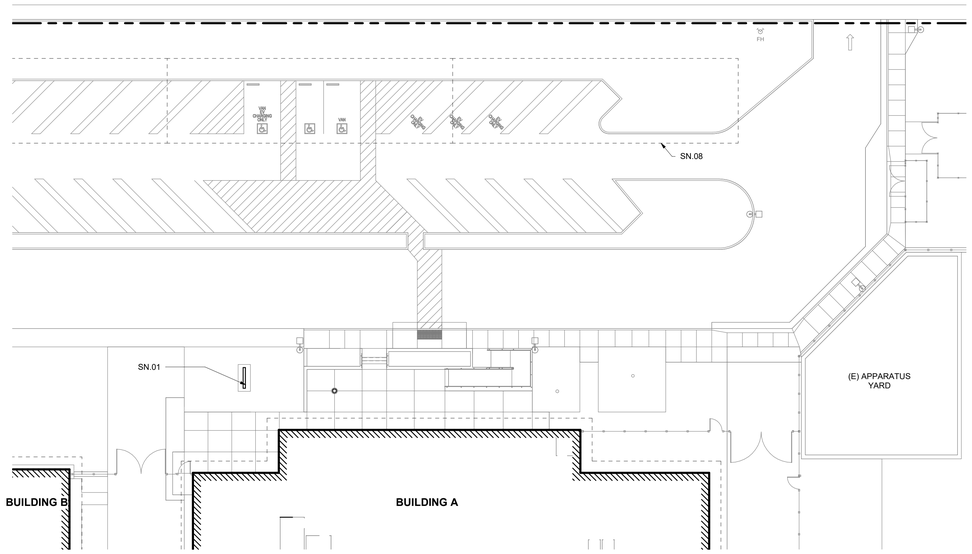
CODE INFORMATION
EXITING PLAN -
BUILDINGS B
THROUGH J

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A0.9.2-2



1 ENLARGED SITE PLAN
1" = 20'-0"



2 (N) ELECTRONIC MESSAGE SIGNAGE
1/4" = 1'-0"

LEGEND

- PROPERTY LINE
- NEW CONSTRUCTION U. O. N.
- LINE OF ROOF ABOVE
- BUILDING DESIGNATION
- (E) BUILDINGS
- (E) CONCRETE WALK / PAVING - INC. 1
- (E) ASPHALT CONCRETE PAVING
- (E) CHAIN LINK FENCE
- (E) ORNAMENTAL FENCE PER
- FENCE HEIGHT
- TRUNCATED DOMES
- FIRE HYDRANT (NTS)
- POLE MOUNTED LIGHT

GENERAL NOTES

1. REFER TO THE ELECTRICAL DRAWINGS FOR RELATED SCOPE

SHEET NOTES

SN.01 REMOVE (E) MARQUEE AND RETRUN TO OWNER. INSTALL (N) ELECTRONIC MESSAGE SIGNAGE - SEE DETAIL 2/A1.2.1-2

KEYNOTES

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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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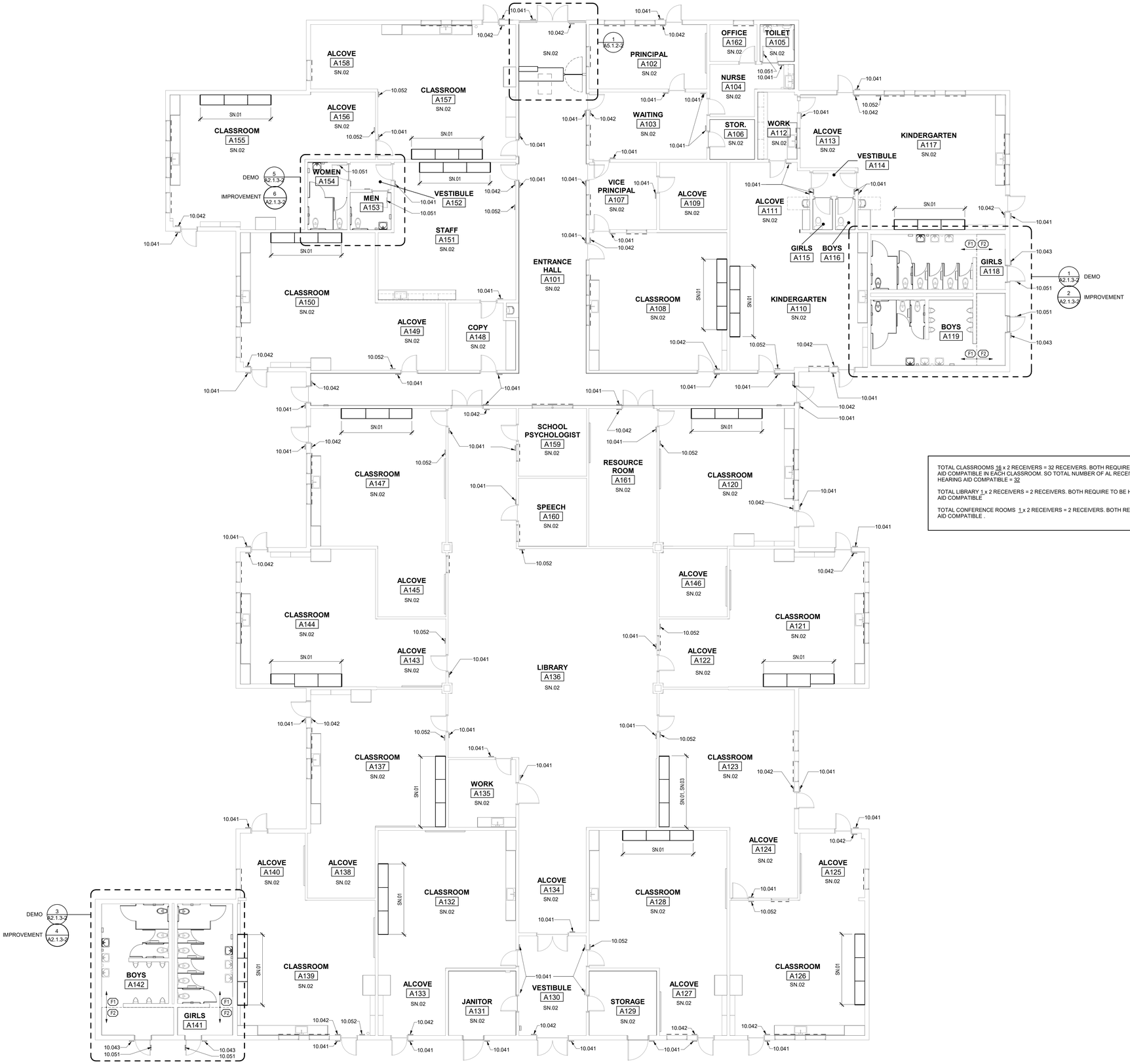
ENLARGED SITE PLAN

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET A1.2.1-2



TOTAL CLASSROOMS 16 x 2 RECEIVERS = 32 RECEIVERS. BOTH REQUIRE TO BE HEARING AID COMPATIBLE IN EACH CLASSROOM. SO TOTAL NUMBER OF AL RECEIVERS THAT ARE HEARING AID COMPATIBLE = 32

TOTAL LIBRARY 1 x 2 RECEIVERS = 2 RECEIVERS. BOTH REQUIRE TO BE HEARING AID COMPATIBLE

TOTAL CONFERENCE ROOMS 1 x 2 RECEIVERS = 2 RECEIVERS. BOTH REQUIRE TO BE HEARING AID COMPATIBLE .

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

LEGEND

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

(N) HORIZONTAL LOUVER BLINDS AT (E) WINDOW

GENERAL NOTES

1. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
2. ALL (E) CASWORK IS TO REMAIN - NO WORK - U.O.N.

SHEET NOTES

SN.01 (N) CASEWORK - LEARNING WALL
SN.02 EXISTING FLOORING TO REMAIN, PROTECT DURING CONSTRUCTION
SN.03 VERIFY LOCATION WITH CLIENT

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM

FINISHES

FLOOR
F1 (E) EPOXY MOSIAC COMPOSITION FLOORING
F2 EPOXY MOSIAC COMPOSITION FLOORING

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FLOOR PLAN - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET A2.1.1-2

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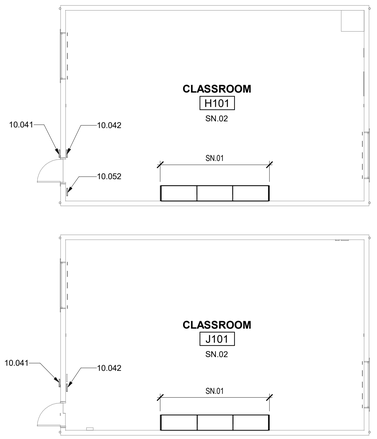
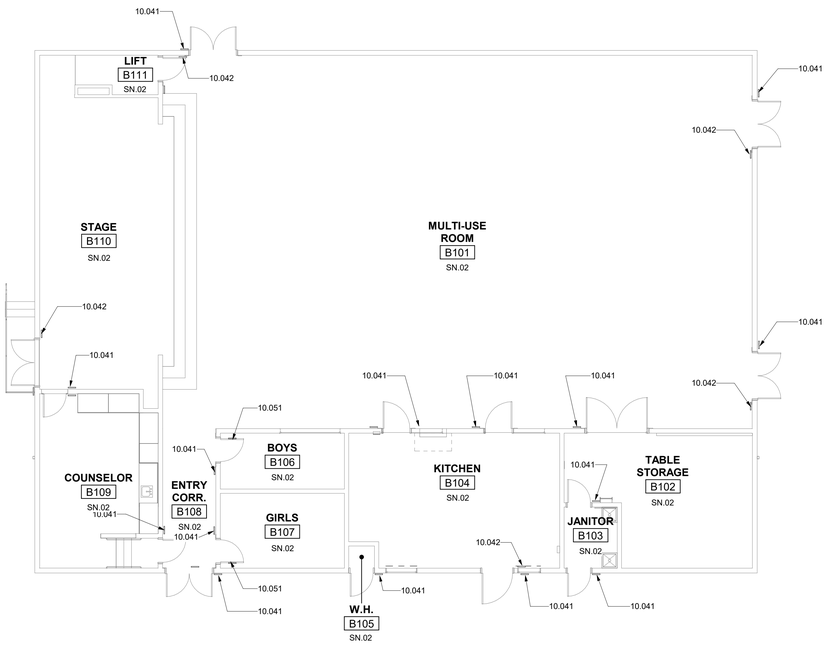
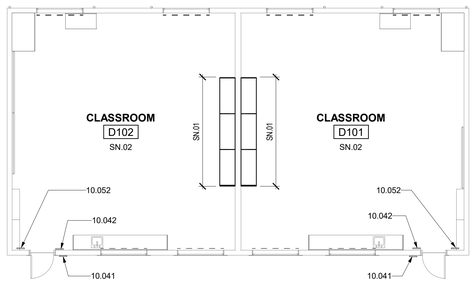
TOTAL CLASSROOMS 10 x 2 RECEIVERS = 20 RECEIVERS. BOTH REQUIRE TO BE HEARING AID COMPATIBLE IN EACH CLASSROOM. SO TOTAL NUMBER OF AL RECEIVERS THAT ARE HEARING AID COMPATIBLE = 20



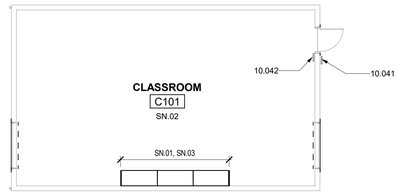
5 BUILDINGS H AND J - FLOOR PLAN
1/8" = 1'-0"



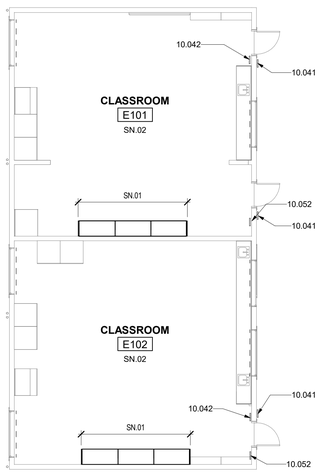
1 BUILDING B - FLOOR PLAN
1/8" = 1'-0"



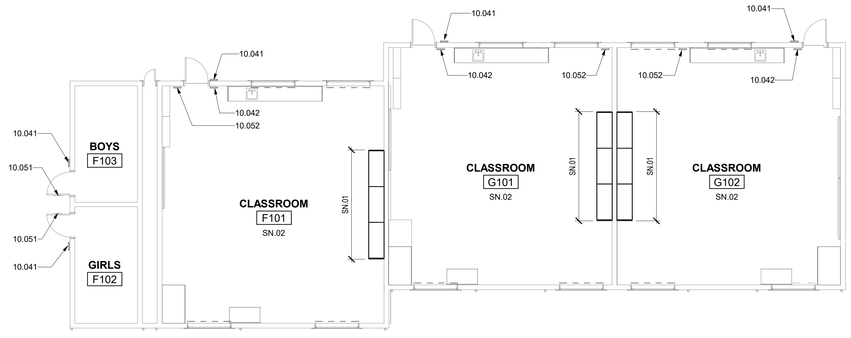
3 BUILDING D - FLOOR PLAN
1/8" = 1'-0"



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



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



4 BUILDINGS F AND G - FLOOR PLAN
1/8" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

(N) HORIZONTAL LOUVER BLINDS AT (E) WINDOW

GENERAL NOTES

1. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
2. ALL (E) CASWORK IS TO REMAIN - NO WORK - U.O.N.

SHEET NOTES

SN.01 (N) CASEWORK - LEARNING WALL
SN.02 EXISTING FLOORING TO REMAIN, PROTECT DURING CONSTRUCTION
SN.03 VERIFY LOCATION WITH CLIENT

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
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FLOOR PLANS - BUILDINGS B THROUGH J

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A2.1.2-2

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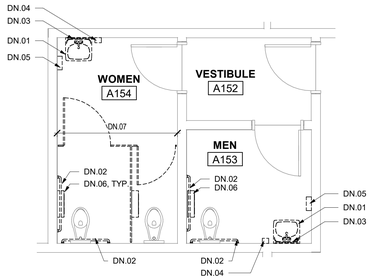
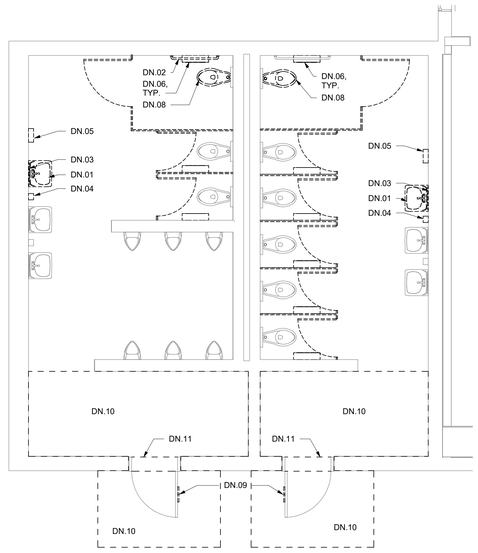
PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

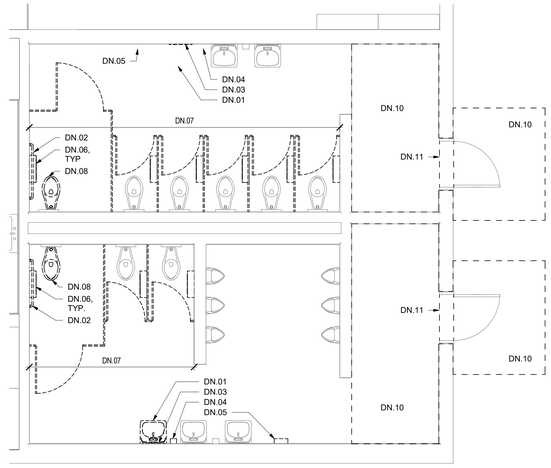
	WC-2	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ACCESSIBLE	"KOHLER" HIGHLINE NO. K-96057-SS, FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-7/8" RIM HEIGHT, 1.28 GPF	"SLOAN" ROYAL SFSM 111-1.28, ADA COMPLIANT, 1.28 GPF (BATTERY SIDE)	SEAT: "CHURCH" MODEL 255SSC OR "BEMIS" MODEL 3155SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR.	WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--



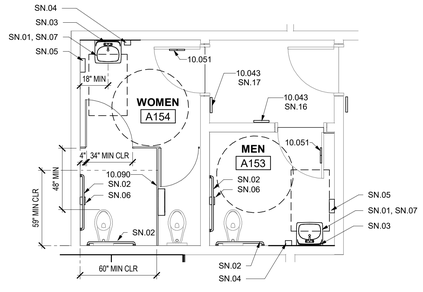
5 BUILDING A - DEMO RESTROOMS A153 AND A154
1/4" = 1'-0"



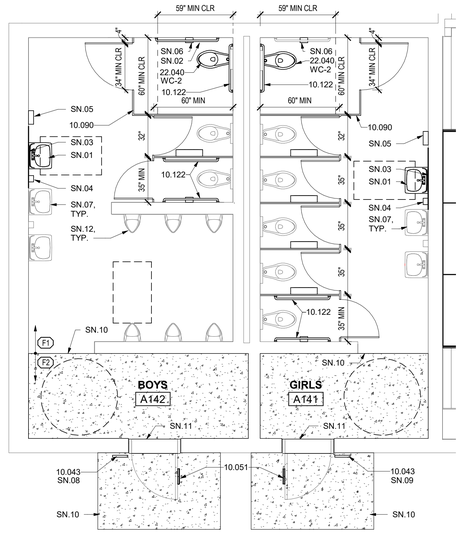
3 BUILDING A - ENLARGED RESTROOMS A141 AND A142
1/4" = 1'-0"



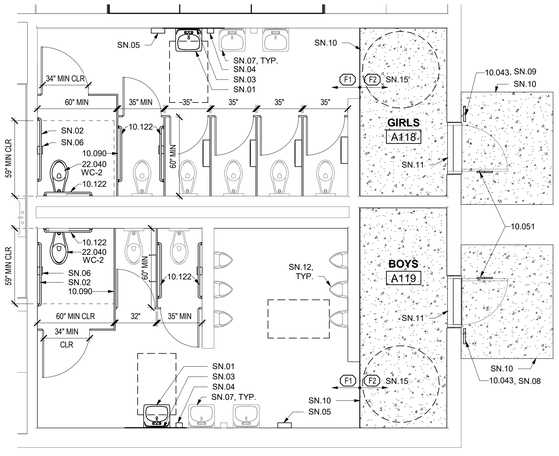
1 BUILDING A - DEMO RESTROOMS A118 AND A119
1/4" = 1'-0"



6 BUILDING A - IMPROVEMENT PLANS A153 AND A154
1/4" = 1'-0"



4 BUILDING A - IMPROVEMENT PLANS A141 AND A142
1/4" = 1'-0"



2 BUILDING A - IMPROVEMENT PLANS A118 AND A119
1/4" = 1'-0"

FINISHES

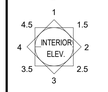
FLOOR

F1 (E) EPOXY MOSIAC COMPOSITION FLOORING
F2 EPOXY MOSIAC COMPOSITION FLOORING

LEGEND

30" x 48" CLEAR SPACE

60" DIA. TURNING CIRCLE



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

GENERAL NOTES

1. EXISTING FIXURES AND EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
3. DIMENSIONS AT EXISTING WALLS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED
5. EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT
6. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE
7. DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR

DEMOLITION NOTES

DN.01 REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
DN.02 REMOVE (E) GRAB BAR AND SALVAGE FOR REINSTALLATION
DN.03 REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
DN.04 REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
DN.05 REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
DN.06 REMOVE (E) TOILET PAPER DISPENSER AND SALVAGE FOR REINSTALLATION
DN.07 REMOVE (E) TOILET PARTITION AND TOILET PARTITION DOOR
DN.08 REMOVE (E) WATER CLOSET
DN.09 REMOVE (E) TOILET ROOM DOOR SYMBOL
DN.10 REMOVE (E) CONCRETE ON PUSH AND PULL SICE OF (E) EXTERIOR DOOR TO EXTENTS REQUIRED TO CREATE LEVEL LANDING
DN.11 REMOVE (E) DOOR THRESHOLD

SHEET NOTES

SN.01 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE, AND VENT
SN.02 REINSTALL (E) GRAB BAR TO COMPLY WITH A0.2 AND PER 1/A0.3-2 OR 2/A0.3-2
SN.03 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
SN.04 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
SN.05 REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
SN.06 REINSTALL (E) TOILET PAPER DISPENSER TO COMPLY WITH A0.2
SN.07 WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES
SN.08 SIGN TO READ "BOYS"
SN.09 SIGN TO READ "GIRLS"
SN.10 INSTALL NEW CONCRETE WITH 2% MAX. SLOPE IN ALL DIRECTIONS. EDGES TO HAVE FLUSH TRANSITION TO (E) SLAB. SEE 10/A0.3-2
SN.11 INSTALL NEW DOOR THRESHOLD PER 9/A0.3-2
SN.12 EXISTING URINAL TO REMAIN
SN.13 (E) RUBBER BASE TO REMAIN
SN.14 PATCH & REPAIR AS NEEDED AFTER RELOCATION OF ACCESSORIES & FIXTURES
SN.15 COLOR TO MATCH COLOR OF (E) FLOORING
SN.16 SIGN TO READ "MEN"
SN.17 SIGN TO READ "WOMEN"

KEYNOTES

10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
10.090 COMPOSITE TOILET COMPARTMENT
10.122 TOILET ACCESSORY: GRAB BAR
22.040 WATER CLOSET

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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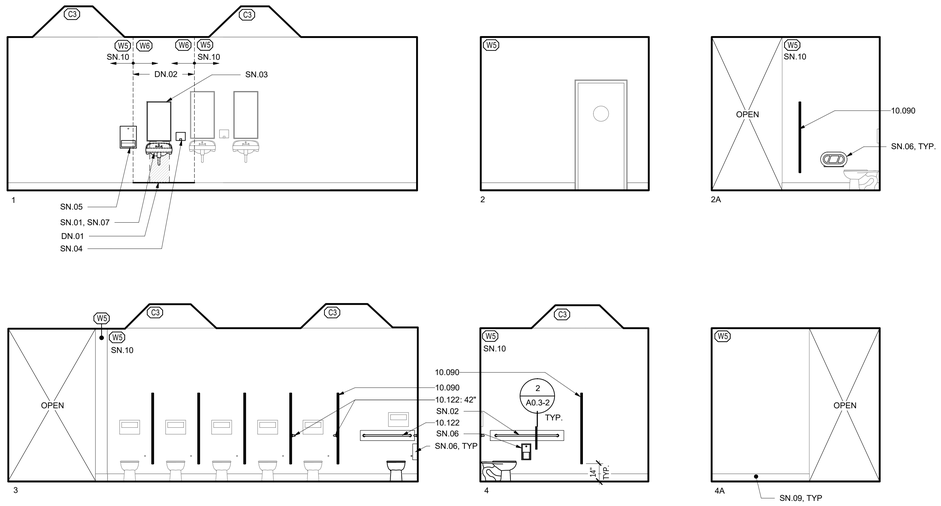
TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS - BUILDING A

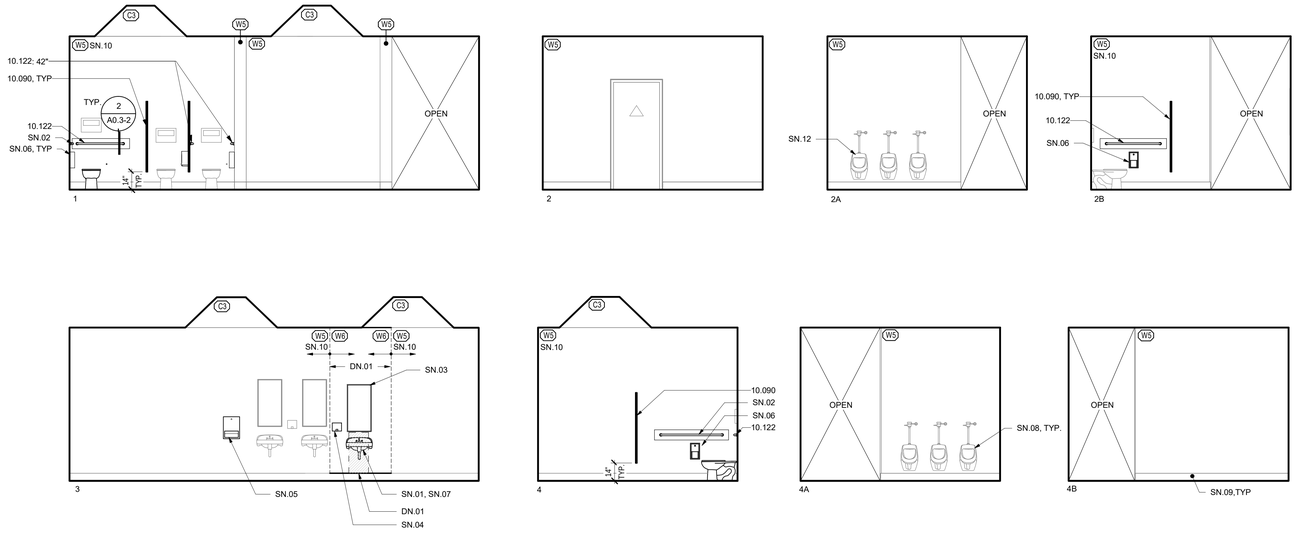
INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A2.1.3-2**

12/21/2022 2:46:21 PM C:\Users\angon\Documents_ABA\Revit Files\1515 Villalovoz Mod_CD-User_Angel.McGinn.rvt



A118 GIRLS
1/4" = 1'-0"



A119 BOYS
1/4" = 1'-0"

A118 A119

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

GENERAL NOTES

1. EXISTING FIXURES AND EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
3. DIMENSIONS AT EXISTING WALLS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED
5. EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT
6. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE
7. DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR

DEMOLITION NOTES

DN.01 SHADED AREA INDICATES PORTION OF THE WALL (E) WALL FINISHESTO BE REMOVED AS NEEDED TO ACCESS AND ADJUST THE EXISTING WATER CARRIERS. PATCH TO MATCH (E) FINISHES

DN.02 REMOVE AND REPLACE THE (E) FRP - FULL PANEL OR TO THE CLOSEST JOINT

SHEET NOTES

SN.01 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE, AND VENT

SN.02 REINSTALL (E) GRAB BAR TO COMPLY WITH A0.2 AND PER 1 A0.3-2 OR 2 A0.3-2

SN.03 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2

SN.04 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2

SN.05 REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2

SN.06 REINSTALL (E) TOILET PAPER DISPENSER TO COMPLY WITH A0.2

SN.07 WRAP ALL EXPOSED PIPES WITH INSULATION AT

SN.08 EXISTING URINAL TO REMAIN

SN.09 (E) RUBBER BASE TO REMAIN

SN.10 PATCH & REPAIR AS NEEDED AFTER RELOCATION OF ACCESSORIES & FIXTURES

KEYNOTES

10.090 COMPOSITE TOILET COMPARTMENT

10.122 TOILET ACCESSORY: GRAB BAR

FINISHES

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) PAINTED FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
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Revision

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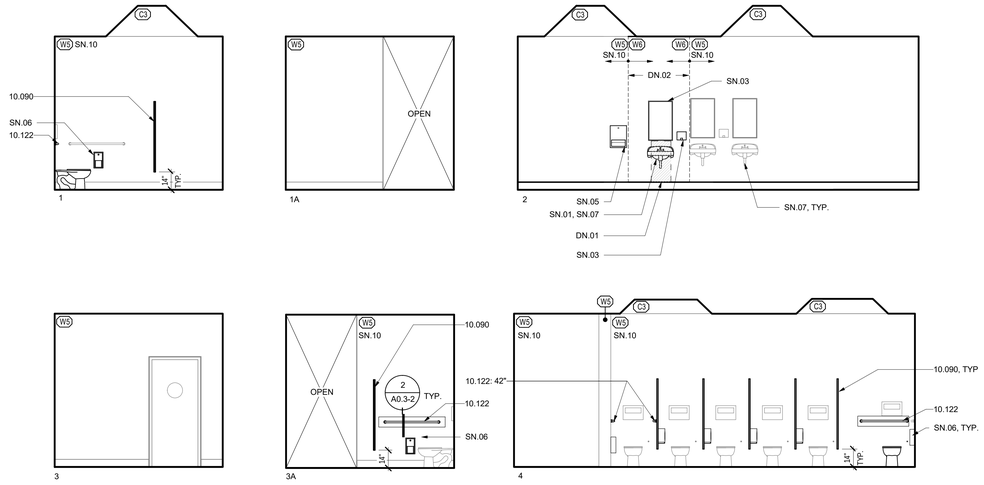
INTERIOR ELEVATIONS - BUILDING A - RESTROOMS

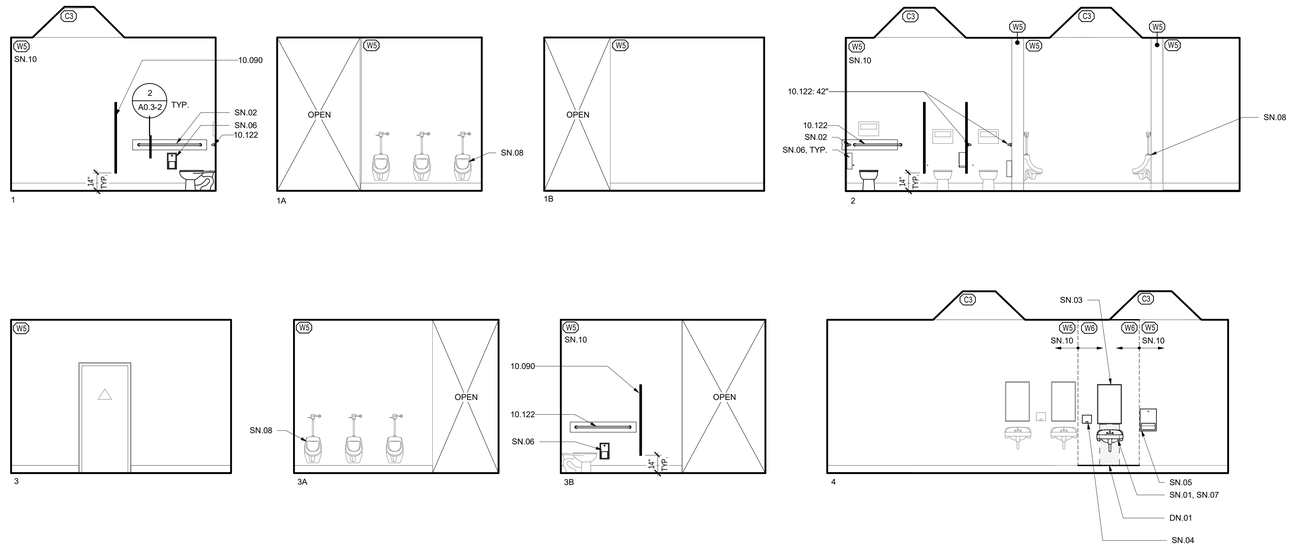
INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET A2.1.4-2



A141 GIRLS

1/4" = 1'-0"



A142 BOYS

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

GENERAL NOTES

1. EXISTING FIXURES AND EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
3. DIMENSIONS AT EXISTING WALLS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED
5. EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT
6. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE
7. DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR

DEMOLITION NOTES

DN.01 SHADED AREA INDICATES PORTION OF THE WALL (E) WALL FINISHESTO BE REMOVED AS NEEDED TO ACCESS AND ADJUST THE EXISTING WATER CARRIERS. PATCH TO MATCH (E) FINISHES

DN.02 REMOVE AND REPLACE THE (E) FRP - FULL PANEL OR TO THE CLOSEST JOINT

SHEET NOTES

SN.01 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE, AND VENT

SN.02 REINSTALL (E) GRAB BAR TO COMPLY WITH A0.2 AND PER 1/A0.3-2 OR 2/A0.3-2

SN.03 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2

SN.04 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2

SN.05 REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2

SN.06 REINSTALL (E) TOILET PAPER DISPENSER TO COMPLY WITH A0.2

SN.07 WRAP ALL EXPOSED PIPES WITH INSULATION AT

SN.08 EXISTING URINAL TO REMAIN

SN.09 (E) RUBBER BASE TO REMAIN

SN.10 PATCH & REPAIR AS NEEDED AFTER RELOCATION OF ACCESSORIES & FIXTURES

KEYNOTES

10.090 COMPOSITE TOILET COMPARTMENT

10.122 TOILET ACCESSORY: GRAB BAR

FINISHES

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED

W2 (E) VINYL TACKABLE PANELS: PAINTED

W3 (E) WOOD TRIM: PAINTED

W4 (E) WALL CARPET

W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD

W7 (E) PAINTED FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A141 | A142

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT

TRACY, CA

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INTERIOR ELEVATIONS - BUILDING A - RESTROOMS

INCREMENT #2

PROJECT NO. 1515

DATE: 12/21/2022

SHEET **A2.1.5-2**

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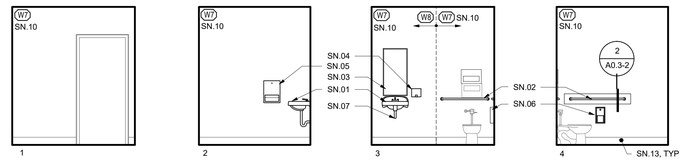
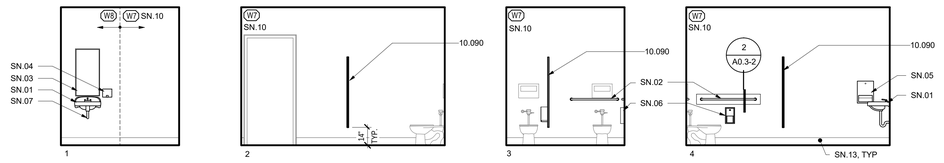


A153 MEN

1/4" = 1'-0"



A154 WOMEN

1/4" = 1'-0"

KEYNOTES

10.090 COMPOSITE TOILET COMPARTMENT

FINISHES

WALL

W1	(E) GYPSUM WALLBOARD: PAINTED
W2	(E) VINYL TACKABLE PANELS: PAINTED
W3	(E) WOOD TRIM: PAINTED
W4	(E) WALL CARPET
W5	(E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6	PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7	(E) PAINTED FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8	FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

GENERAL NOTES

1. EXISTING FIXURES AND EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
3. DIMENSIONS AT EXISTING WALLS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED
5. EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT
6. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE
7. DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR

DEMOLITION NOTES

DN.01 SHADED AREA INDICATES PORTION OF THE WALL (E) WALL FINISHESTO BE REMOVED AS NEEDED TO ACCESS AND ADJUST THE EXISTING WATER CARRIERS. PATCH TO MATCH (E) FINISHES

DN.02 REMOVE AND REPLACE THE (E) FRP - FULL PANEL OR TO THE CLOSEST JOINT

SHEET NOTES

SN.01 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE, AND VENT

SN.02 REINSTALL (E) GRAB BAR TO COMPLY WITH A0.2 AND PER 1/A0.3-2 OR 2/A0.3-2

SN.03 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2

SN.04 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2

SN.05 REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2

SN.06 REINSTALL (E) TOILET PAPER DISPENSER TO COMPLY WITH A0.2

SN.07 WRAP ALL EXPOSED PIPES WITH INSULATION AT

SN.08 EXISTING URINAL TO REMAIN

SN.09 (E) RUBBER BASE TO REMAIN

SN.10 PATCH & REPAIR AS NEEDED AFTER RELOCATION OF ACCESSORIES & FIXTURES

A153 | A154

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JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
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INTERIOR ELEVATIONS - BUILDING A - RESTROOMS

INCREMENT #2

PROJECT NO.	1515
DATE:	12/21/2022
SHEET	A2.1.6-2

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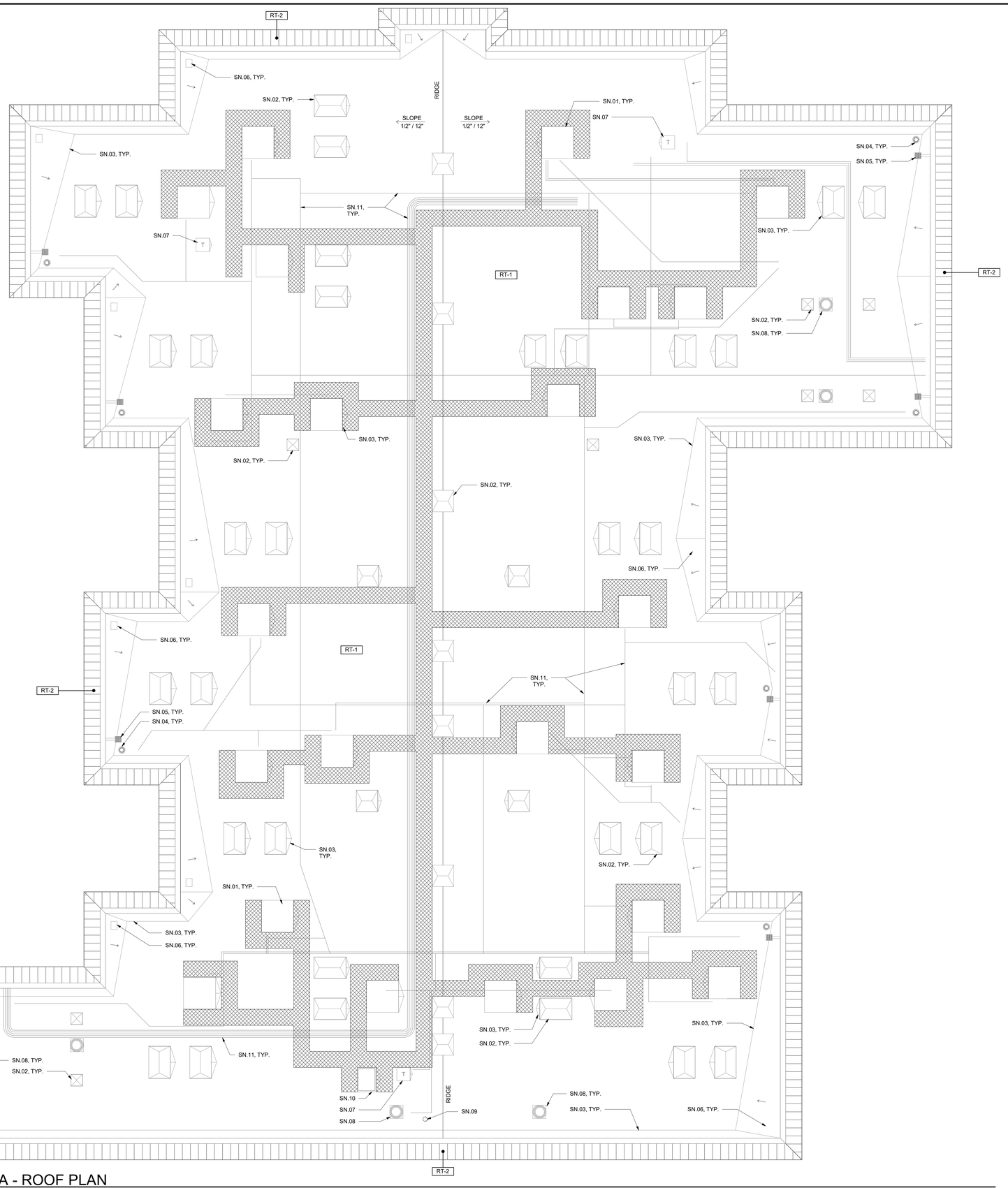

1 BUILDING A - ROOF PLAN
1/8" = 1'-0"

LEGEND

ROOFING MEMBRANE WALKWAY

ROOF TYPES

RT-1 NEW FLUID APPLIED ROOF COATING MEMBRANE o/ EXISTING ROOFING MEMBRANE

RT-2 NEW METAL ROOFING PANELS o/ EXISTING PLYWOOD SHEATHING - REFER TO DETAIL 4/A8.1.1-2 FOR FASTENING INFORMATION

RT-3 NEW FLUID APPLIED ROOF COATING MEMBRANE o/ EXISTING METAL ROOF

GENERAL NOTES

1. CONDUIT AND EQUIPMENT SHOWN IS DIAGRAMATIC, CONTRACTOR TO VERIFY EXACT QUANTITY AND LOCATIONS

SHEET NOTES

SN.01 (E) HVAC UNIT
SN.02 (E) SKYLIGHT
SN.03 (E) CRICKET
SN.04 (E) ROOF DRAIN
SN.05 (E) OVERFLOW DRAIN
SN.06 (E) ROOF VENT
SN.07 (E) TRANSFORMER
SN.08 (E) EXHAUST FAN
SN.09 (E) WATER HEATER FLUE
SN.10 (E) ROOF HATCH
SN.11 (E) CONDUIT

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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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ROOF PLAN - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A2.1.8-2**

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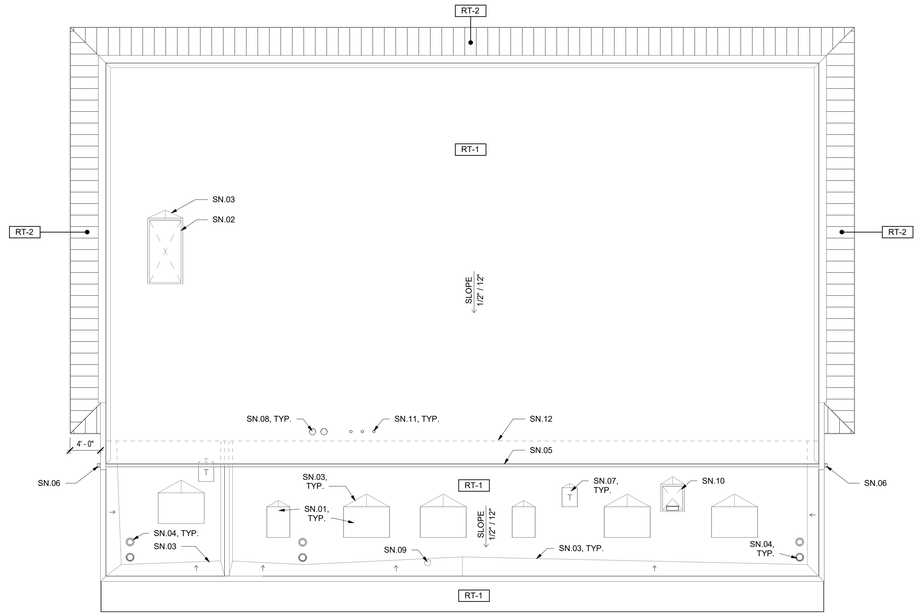
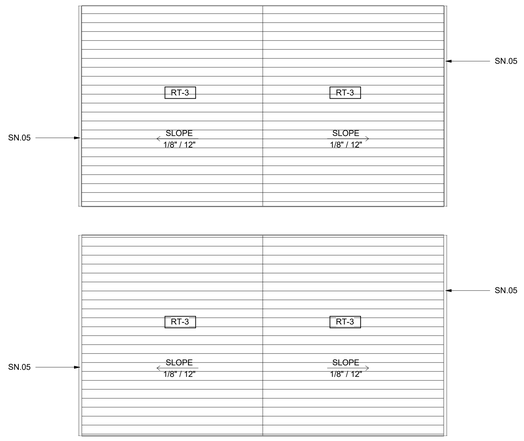
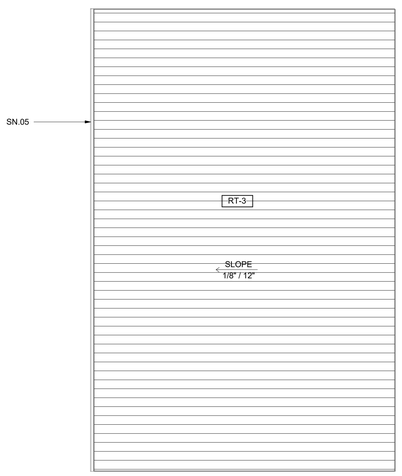


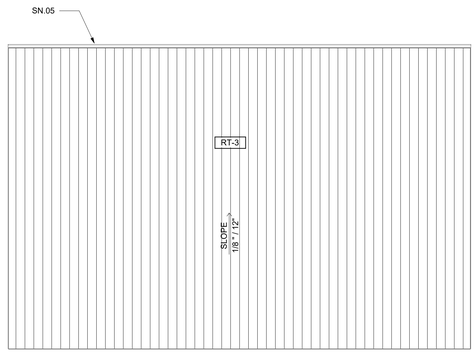
1 BUILDING B - ROOF PLAN
1/8" = 1'-0"



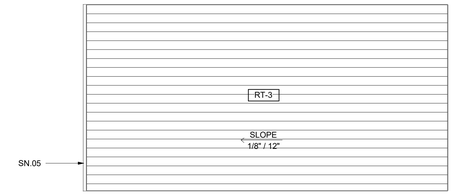
5 BUILDINGS H AND J - ROOF PLAN
1/8" = 1'-0"



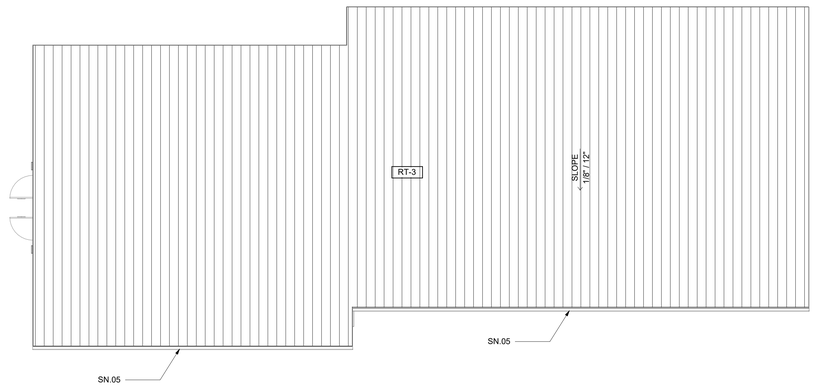
6 BUILDING E - ROOF PLAN
1/8" = 1'-0"



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



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



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

LEGEND

ROOFING MEMBRANE WALKWAY

ROOF TYPES

RT-1 NEW FLUID APPLIED ROOF COATING MEMBRANE o/ EXISTING ROOFING MEMBRANE

RT-2 NEW METAL ROOFING PANELS o/ EXISTING PLYWOOD SHEATHING - REFER TO DETAIL 4/A8.1.1-2 FOR FASTENING INFORMATION

RT-3 NEW FLUID APPLIED ROOF COATING MEMBRANE o/ EXISTING METAL ROOF

GENERAL NOTES

1. CONDUIT AND EQUIPMENT SHOWN IS DIAGRAMATIC, CONTRACTOR TO VERIFY EXACT QUANTITY AND LOCATIONS

SHEET NOTES

SN.01 (E) HVAC UNIT
SN.02 (E) SKYLIGHT
SN.03 (E) CRICKET
SN.04 (E) ROOF DRAIN
SN.05 (E) OVERFLOW DRAIN
SN.06 (E) ROOF VENT
SN.07 (E) TRANSFORMER
SN.08 (E) EXHAUST FAN
SN.09 (E) WATER HEATER FLUE
SN.10 (E) ROOF HATCH
SN.11 (E) CONDUIT

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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ROOF PLANS - BUILDINGS B THROUGH J

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A2.1.9-2**

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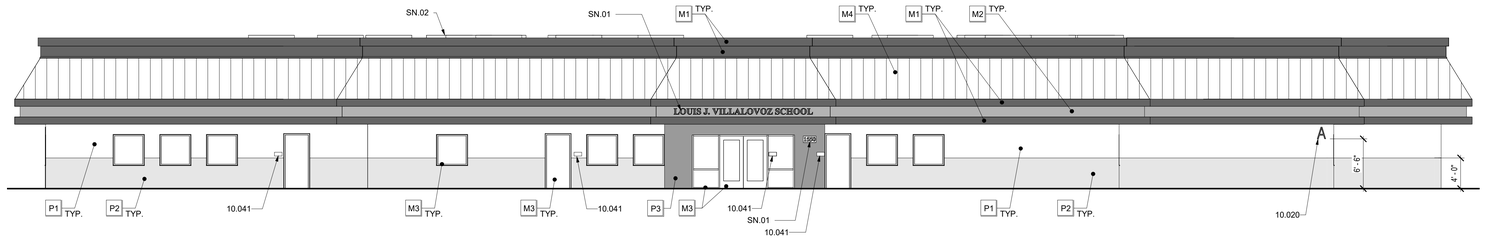
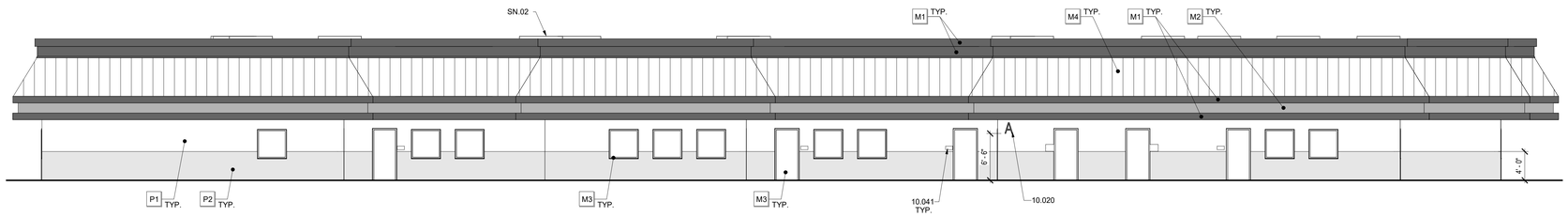
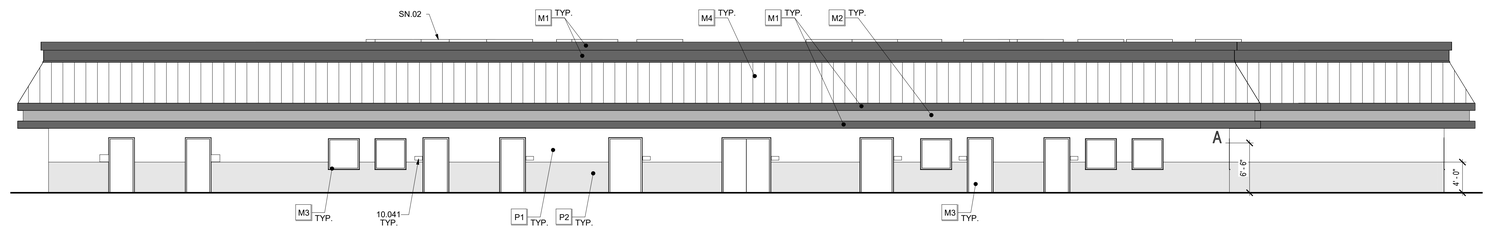


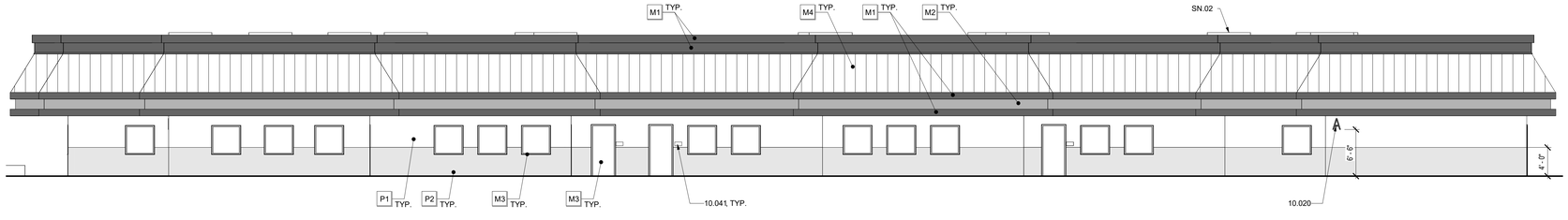
1 BUILDING A - NORTH ELEVATION
1/8" = 1'-0"



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



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



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

EXTERIOR COLOR SCHEDULE

	MATERIAL	COLOR
P1	CONCRETE	PAINT COLOR 1 (1) (2)
P2	CONCRETE	PAITN 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)
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

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

SHEET NOTES

SN.01 (E) BUILDING SIGNAGE TO REMAIN
SN.02 (E) EQUIPMENT ON ROOF

KEYNOTES

10.020 SIGNAGE: BUILDING
10.041 SIGNAGE: ROOM IDENTIFICATION

rga+ A studio of HMC Architects

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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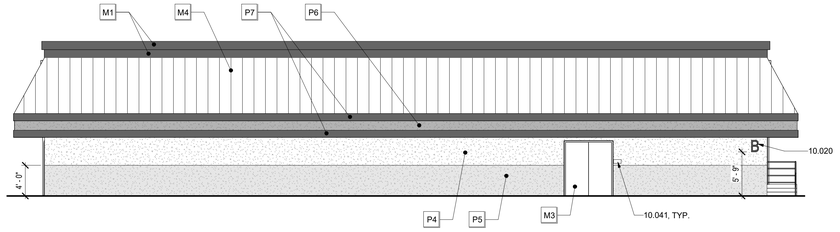
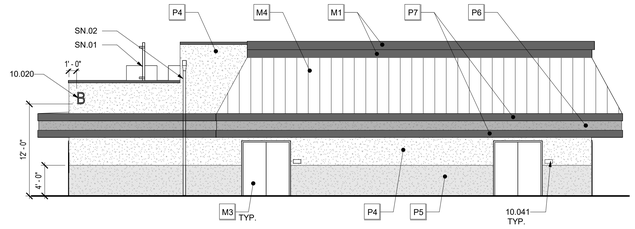
OVERALL EXTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

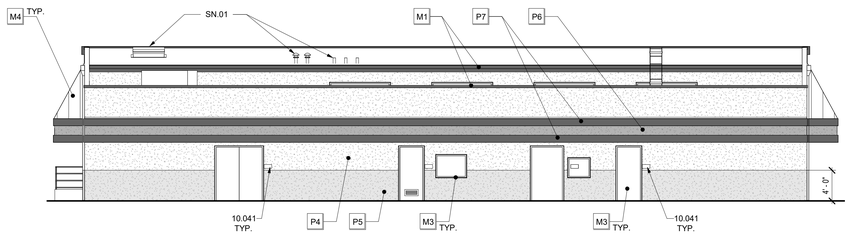
PROJECT NO. 1515
DATE: 12/21/2022
SHEET A4.1.1-2



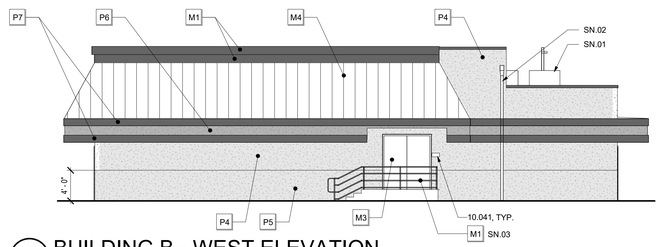
1 BUILDING B - NORTH ELEVATION
1/8" = 1'-0"



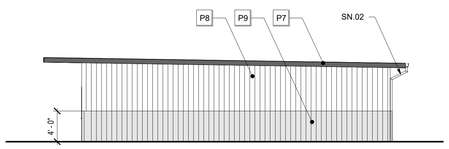
2 BUILDING B - EAST ELEVATION
1/8" = 1'-0"



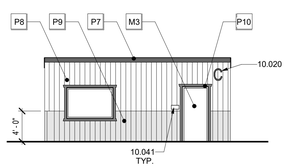
3 BUILDING B - SOUTH ELEVATION
1/8" = 1'-0"



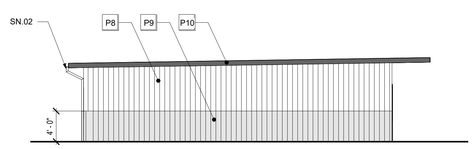
4 BUILDING B - WEST ELEVATION
1/8" = 1'-0"



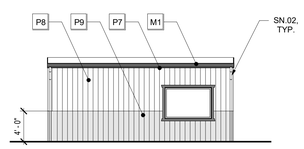
5 BUILDING C - NORTH ELEVATION
1/8" = 1'-0"



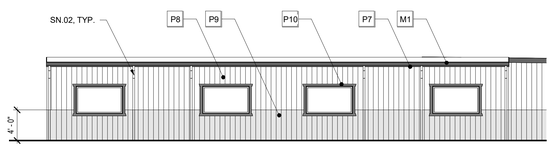
6 BUILDING C - EAST ELEVATION
1/8" = 1'-0"



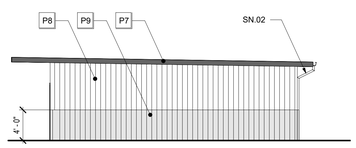
7 BUILDING C - SOUTH ELEVATION
1/8" = 1'-0"



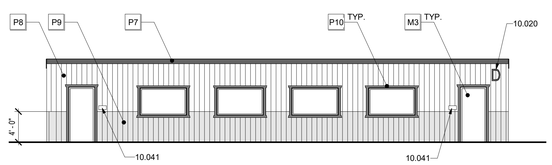
8 BUILDING C - WEST ELEVATION
1/8" = 1'-0"



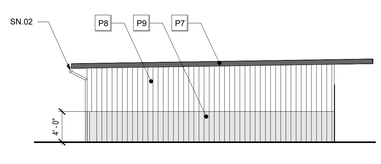
9 BUILDING D - NORTH ELEVATION
1/8" = 1'-0"



10 BUILDING D - EAST ELEVATION
1/8" = 1'-0"



11 BUILDING D - SOUTH ELEVATION
1/8" = 1'-0"



12 BUILDING D - WEST ELEVATION
1/8" = 1'-0"

EXTERIOR COLOR SCHEDULE

	MATERIAL	COLOR
P1	CONCRETE	PAINT COLOR 1 (1) (2)
P2	CONCRETE	PAITN 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)
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

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2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBITY, REFER TO SHEET A0.2

SHEET NOTES

SN.01 (E) EQUIPMENT ON ROOF
SN.02 (E) DOWNSPOUT, PAINT TO MATCH WALL BEHIND
SN.03 PAINT (E) METAL HANDRAIL AT STAIRS

KEYNOTES

10.020 SIGNAGE: BUILDING
10.041 SIGNAGE: ROOM IDENTIFICATION

rga + A studio of HMC Architects

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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OVERALL EXTERIOR ELEVATIONS - BUILDINGS B, C, & D

INCREMENT #2

PROJECT NO. **1515**
DATE: **12/21/2022**
SHEET
A4.1.2-2

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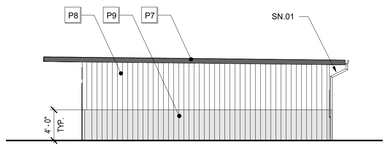
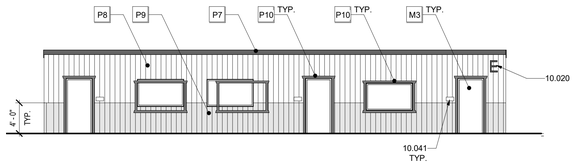
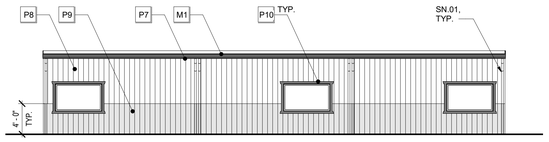


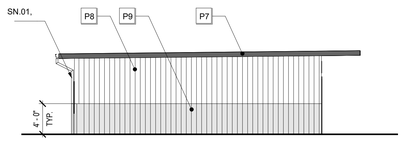
1 BUILDING E - NORTH ELEVATION
1/8" = 1'-0"



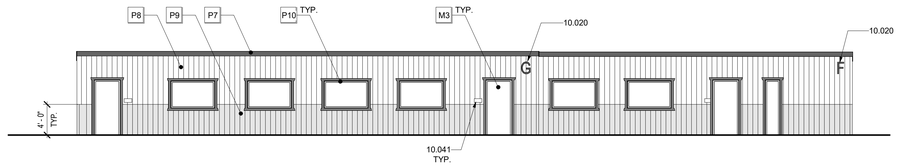
2 BUILDING E - EAST ELEVATION
1/8" = 1'-0"



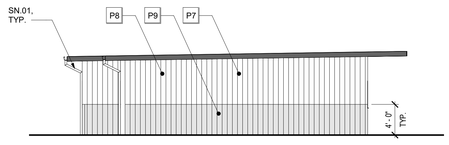
4 BUILDING E - WEST ELEVATION
1/8" = 1'-0"



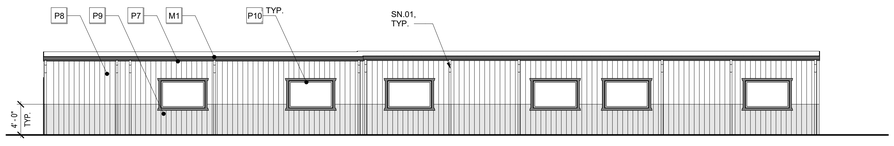
3 BUILDING E - SOUTH ELEVATION
1/8" = 1'-0"



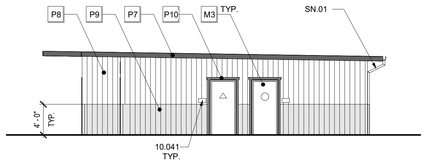
5 BUILDINGS F AND G - NORTH ELEVATION
1/8" = 1'-0"



6 BUILDING G - EAST ELEVATION
1/8" = 1'-0"



7 BUILDINGS F AND G - SOUTH ELEVATION
1/8" = 1'-0"



8 BUILDING F - WEST ELEVATION
1/8" = 1'-0"

EXTERIOR COLOR SCHEDULE

	MATERIAL	COLOR
P1	CONCRETE	PAINT COLOR 1 (1) (2)
P2	CONCRETE	PAITN 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)
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

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

SHEET NOTES

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

KEYNOTES

10.020 SIGNAGE: BUILDING
10.041 SIGNAGE: ROOM IDENTIFICATION

rga + A studio of HMC Architects

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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OVERALL EXTERIOR ELEVATIONS - BUIDLINGS E, F, & G

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A4.1.3-2

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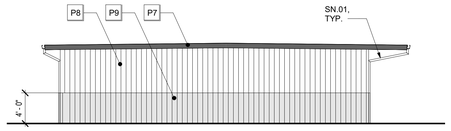
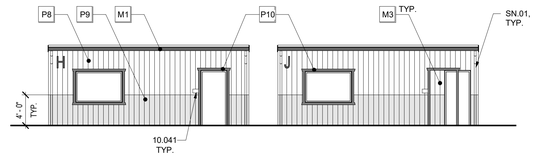
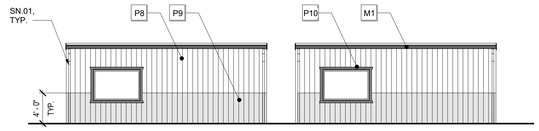


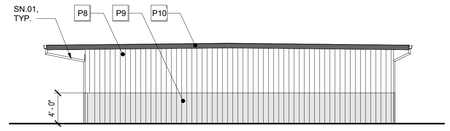
5 BUILDING H - NORTH ELEVATION
1/8" = 1'-0"



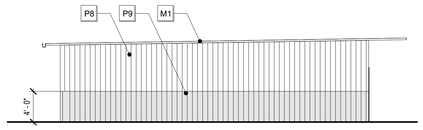
6 BUILDING H AND J - WEST ELEVATION
1/8" = 1'-0"



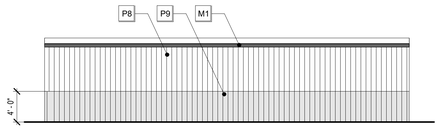
7 BUILDINGS H AND J - EAST ELEVATION
1/8" = 1'-0"



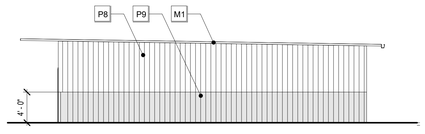
8 BUILDING J - SOUTH ELEVATION
1/8" = 1'-0"



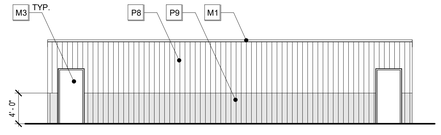
1 BUILDING K - NORTH ELEVATION
1/8" = 1'-0"



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	PAITN 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)
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)

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SHEET NOTES

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

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION

rga+ A studio of HMC Architects

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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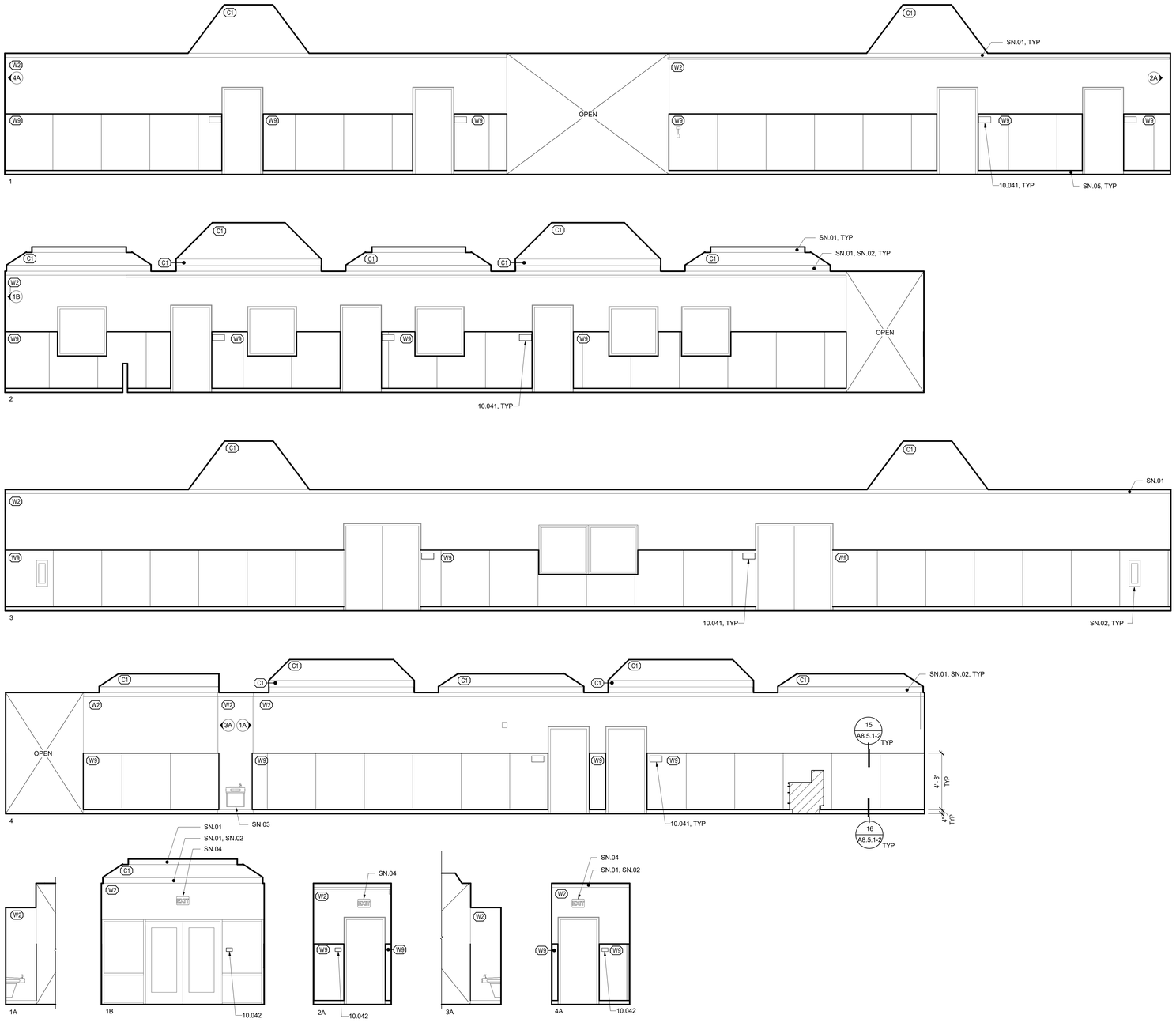
OVERALL EXTERIOR ELEVATIONS - BUILDINGS H, J, & K

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET A4.1.4-2



A101 ENTRANCE HALL

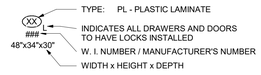
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) WOOD TRIM TO BE PAINTED TO MATCH WALL
SN.02 (E) FIRE EXTINGUISHER TO REMAIN
SN.03 (E) DRINKING FOUNTAIN TO REMAIN
SN.04 (E) EXIT SIGN TO REMAIN
SN.05 (E) RUBBER BASE TO REMAIN

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A101

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.1-2**

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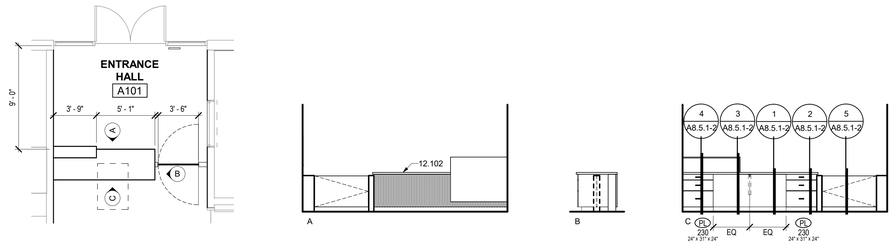
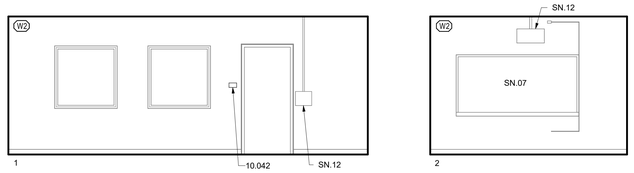


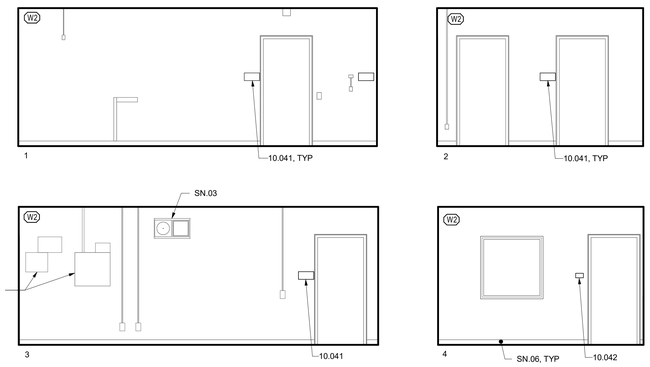
1 ENLARGED ADMIN DESK & ELEVATIONS

3/16" = 1'-0"



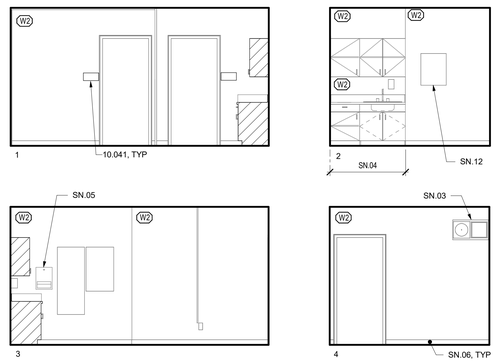
A102 PRINCIPAL

1/4" = 1'-0"



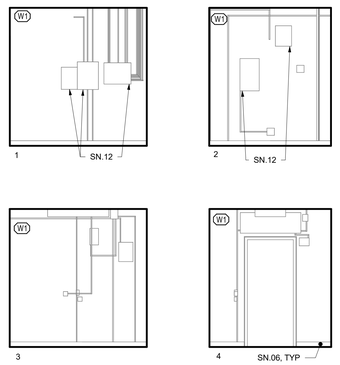
A103 WAITING

1/4" = 1'-0"



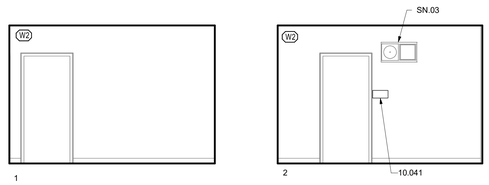
A104 NURSE

1/4" = 1'-0"



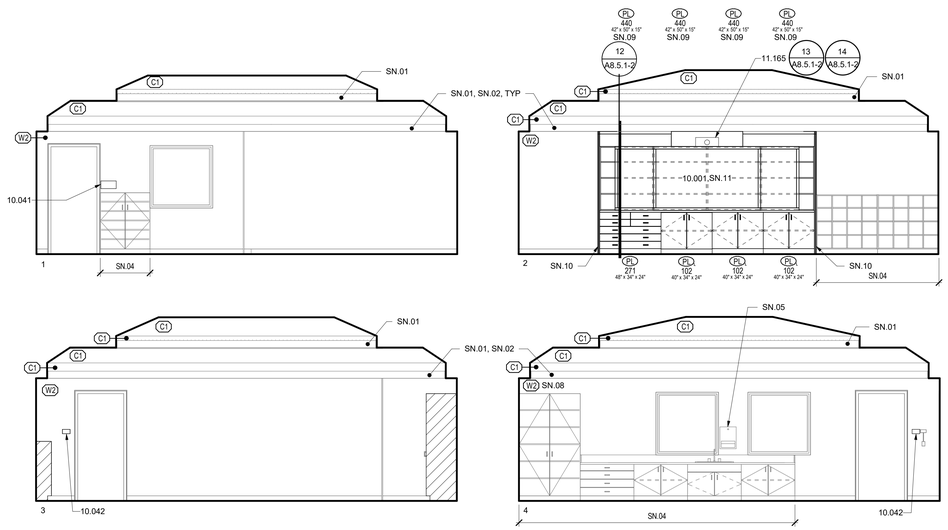
A106 STORAGE

1/4" = 1'-0"



A107 VICE PRINCIPAL

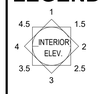
1/4" = 1'-0"



A108 CLASSROOM

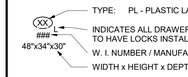
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.09 BEHIND MARKERBOARDS
SN.10 2 FINISHED END PANELS
SN.11 4' - 0" X 7' - 0", TYP OF 3
SN.12 (E) ELECTRICAL EQUIPMENT TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
11.165 SHORT THROW PROJECTOR
12.102 MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK: COUNTERTOP

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A102 | A103 | A104 | A105 | A106 | A107 | A108

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.2-2**

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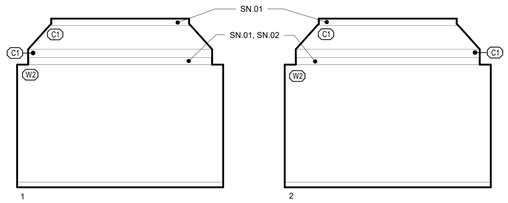
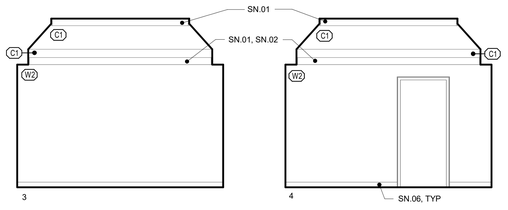
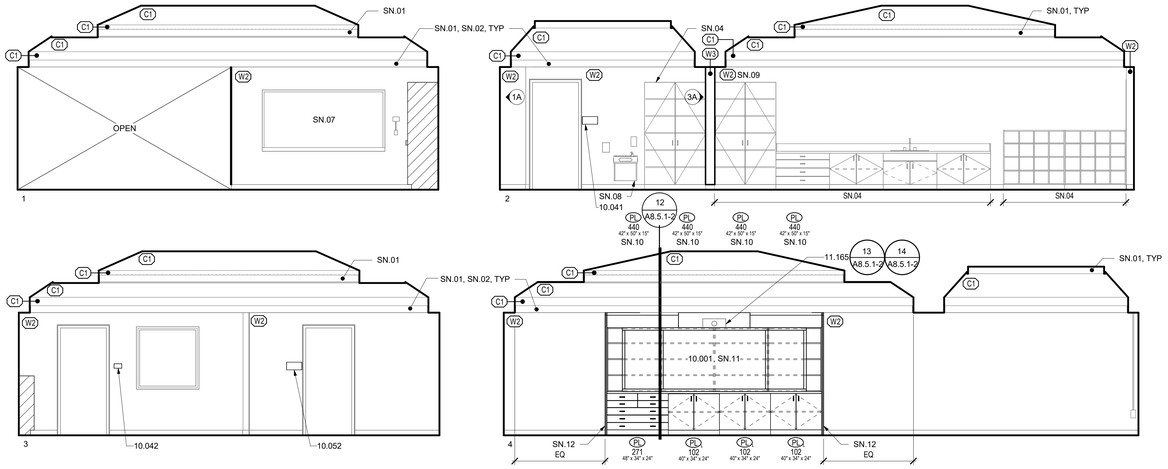




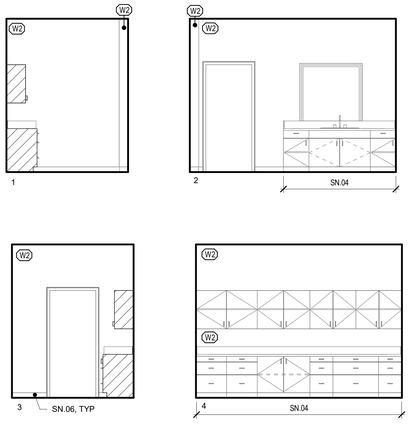
A109 ALCOVE

1/4" = 1'-0"



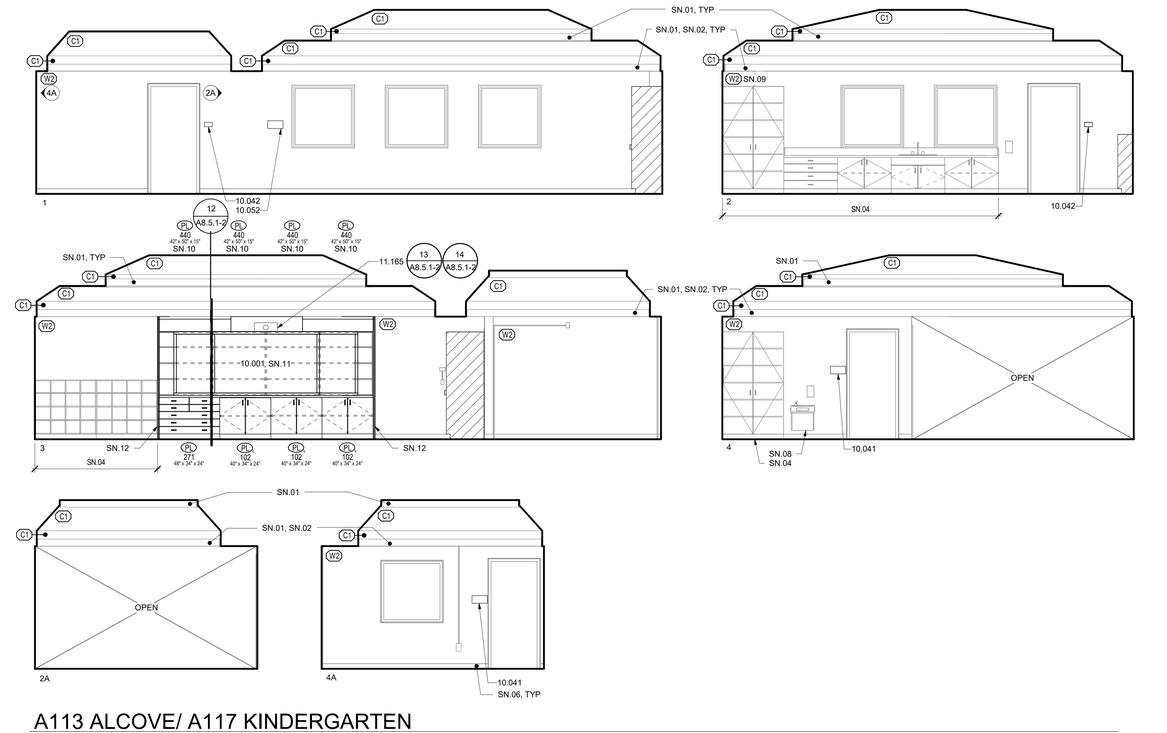
A110 KINDERGARTEN/ ALCOVE A111

1/4" = 1'-0"



A112 WORKROOM

1/4" = 1'-0"



A113 ALCOVE/ A117 KINDERGARTEN

1/4" = 1'-0"

A109	A110	A111	A112	A113	A117

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.3-2**

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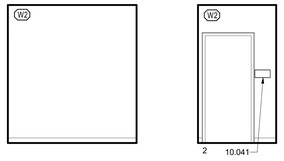
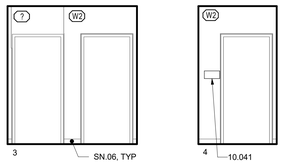
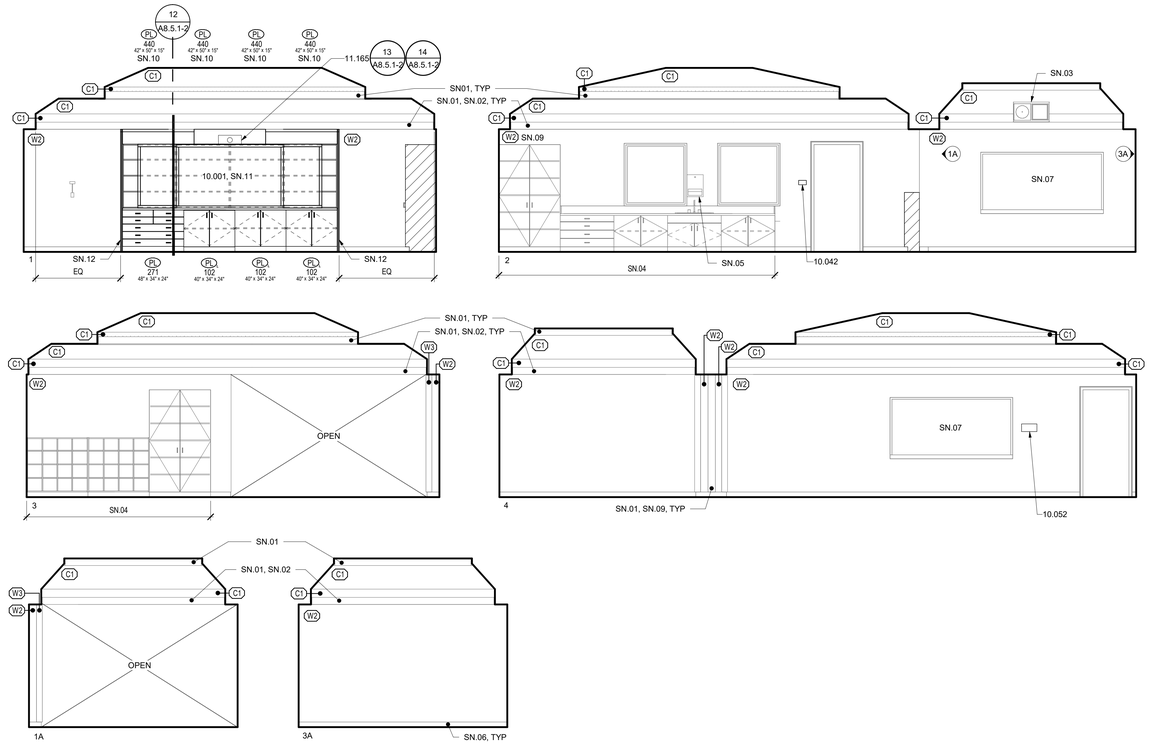




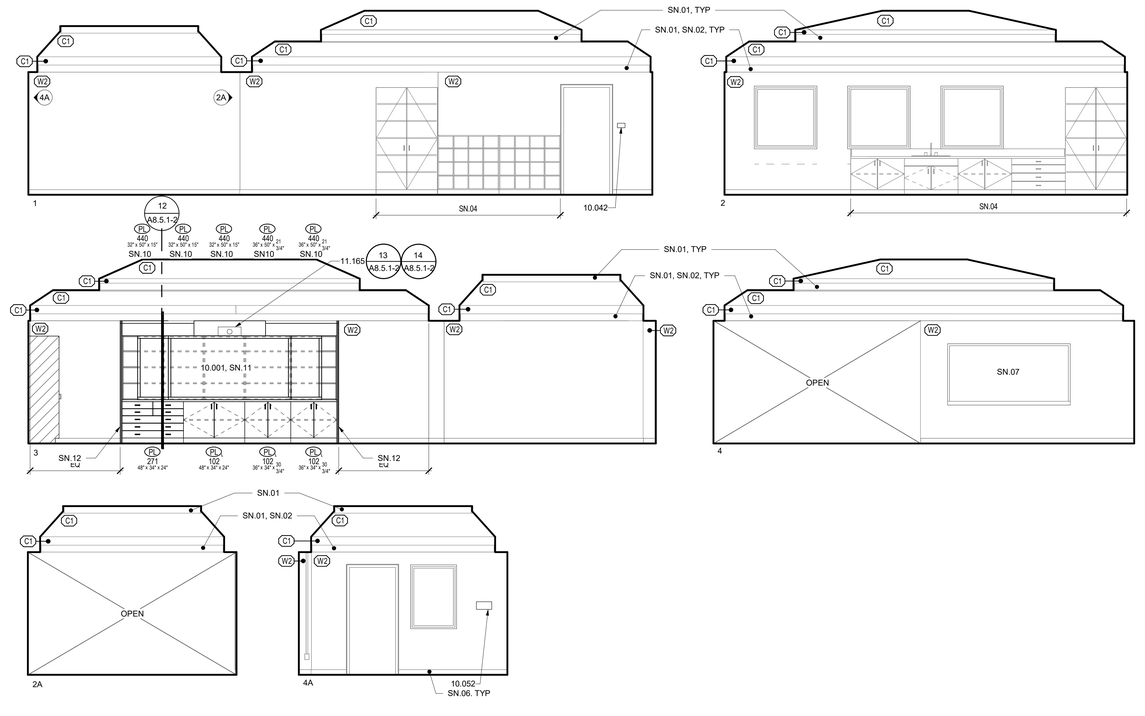
A114 VESTIBULE

1/4" = 1'-0"



A120 CLASSROOM/A146 ALCOVE

1/4" = 1'-0"



A121 CLASSROOM/ A122 ALCOVE

1/4" = 1'-0"

A114 | A120 | A121 | A122 | A146

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.4-2**

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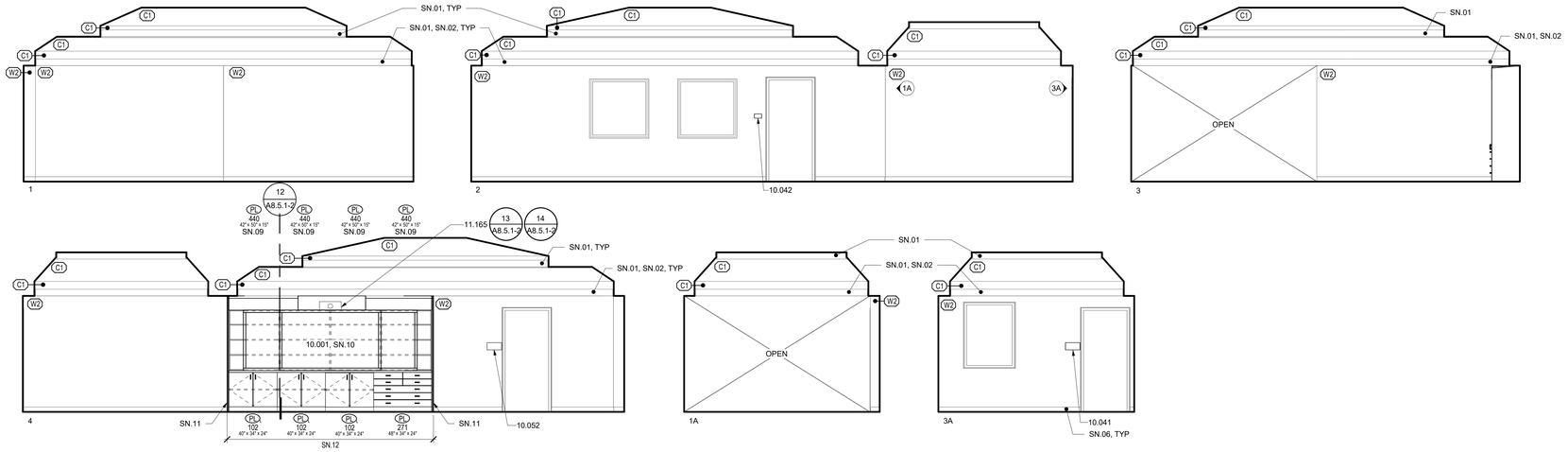
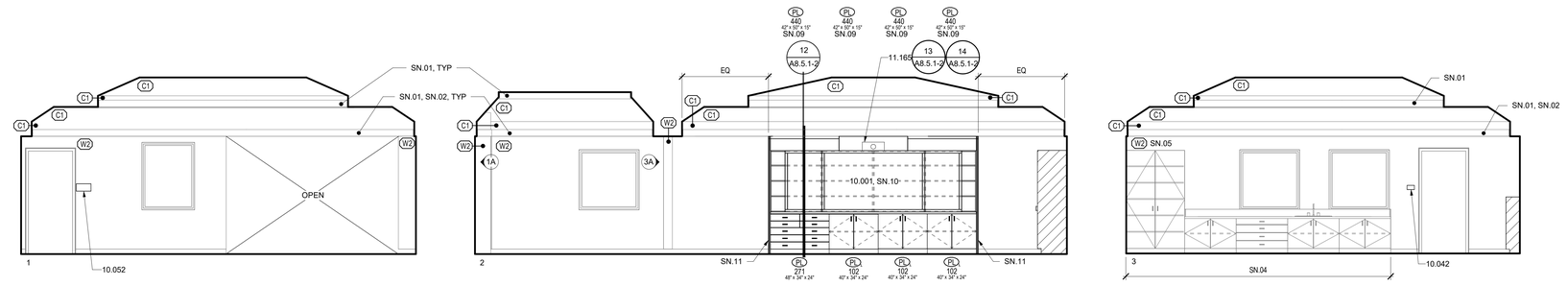
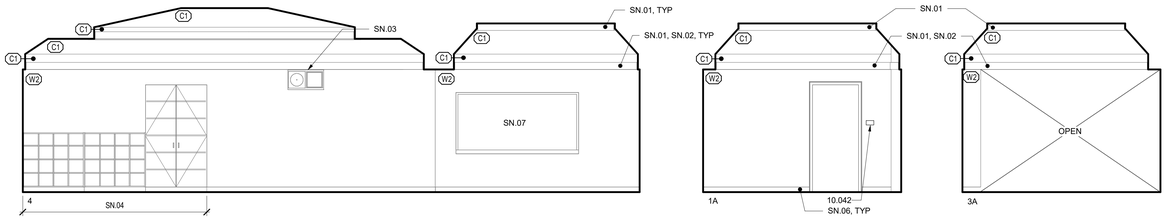


A123 CLASSROOM/ A124 ALCOVE

1/4" = 1'-0"

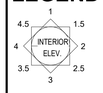




A125 ALCOVE/ A126 CLASSROOM

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.06 (E) RUBBER BASE TO REMAIN
SN.07 (E) MARKERBOARD TO REMAIN
SN.08 (E) DRINKING FOUNTAIN TO REMAIN
SN.09 BEHIND MARKERBOARDS
SN.10 4' - 0" X 7' - 0", TYP OF 3
SN.11 2 FINISHED END PANELS
SN.12 VERIFY LOCATION WITH CLIENT

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A123 | A124 | A125 | A126

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET A5.1.5-2

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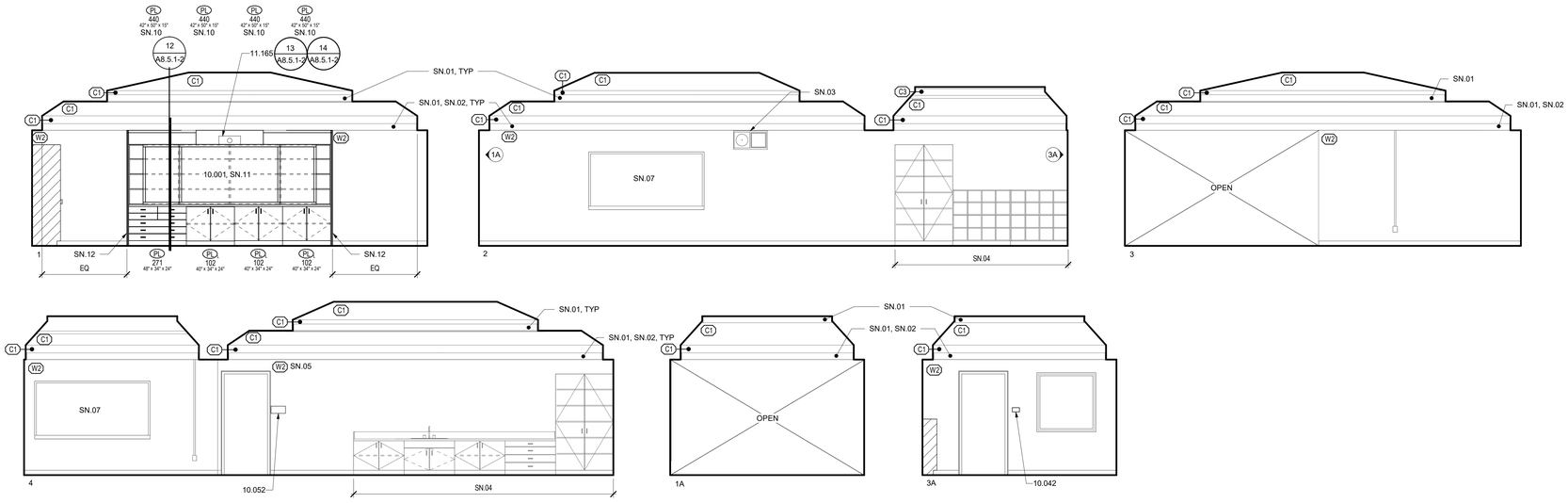
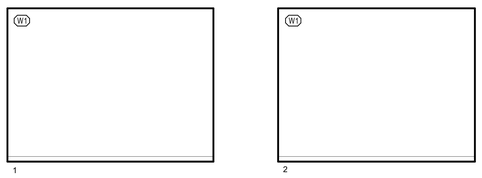
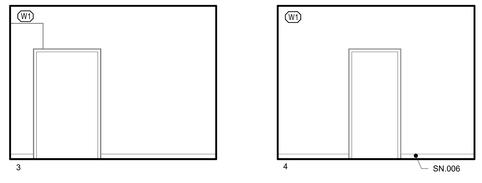


A127 ALCOVE/ A128 CLASSROOM

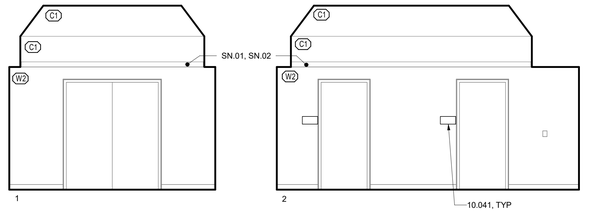
1/4" = 1'-0"

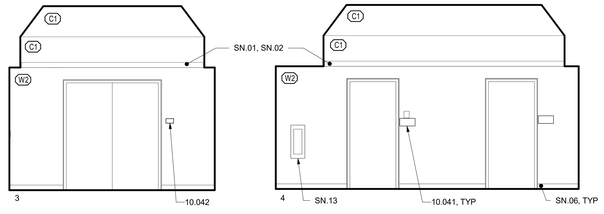




A129 STORAGE

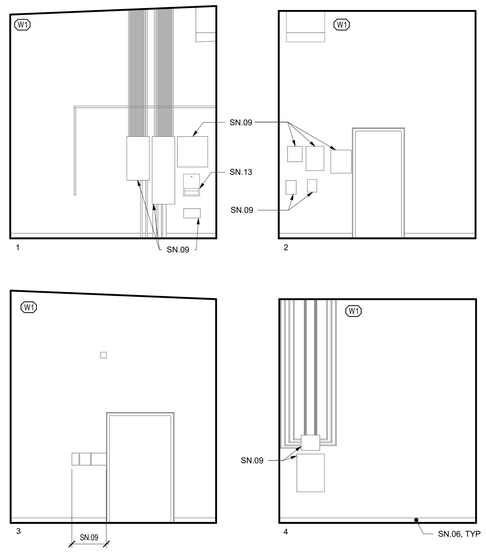
1/4" = 1'-0"





A130 VESTIBULE

1/4" = 1'-0"



A131 JANITOR

1/4" = 1'-0"

A127 | A128 | A129 | A130 | A131

LEGEND

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE

XX — TYPE: PL - PLASTIC LAMINATE
L — INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED
— W. I. NUMBER / MANUFACTURER'S NUMBER
48"x34"x30" — WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.06 (E) RUBBER BASE TO REMAIN
SN.07 (E) MARKERBOARD TO REMAIN
SN.08 (E) DRINKING FOUNTAIN TO REMAIN
SN.09 (E) ELECTRICAL EQUIPMENT TO REMAIN
SN.10 BEHIND MARKERBOARDS
SN.11 4' - 0" X 7' - 0", TYP OF 3
SN.12 2 FINISHED END PANELS
SN.13 (E) PAPER TOWEL DISPENSER TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

rga + A studio of HMC Architects

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.6-2**

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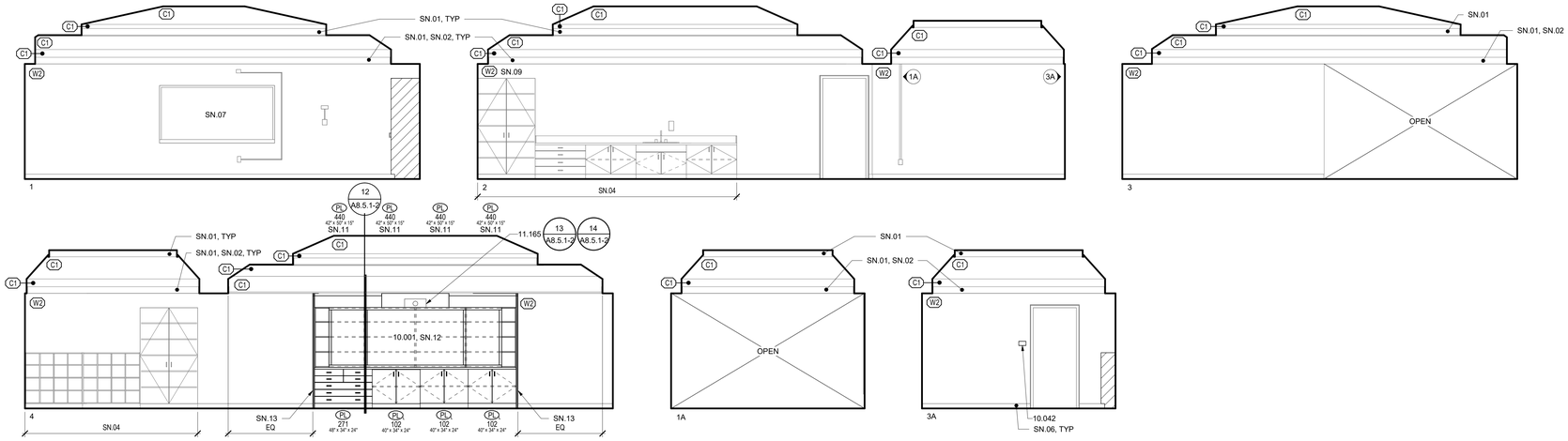
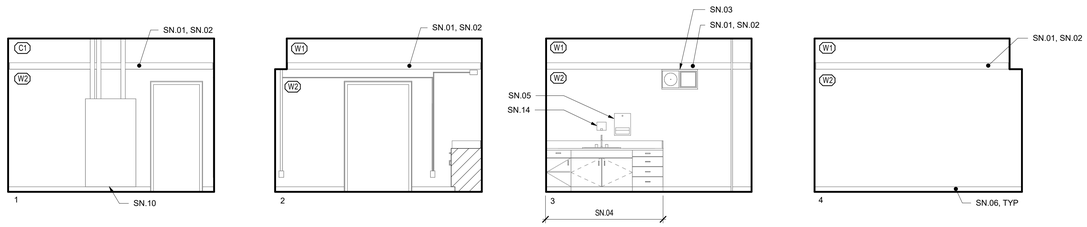


A132 CLASSROOM/ A133 ALCOVE
1/4" = 1'-0"



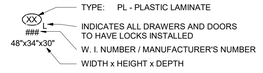
A135 WORK AREA
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 (E) ELECTRICAL EQUIPMENT TO REMAIN
SN.11 BEHIND MARKERBOARDS
SN.12 4' - 0" X 7' - 0", TYP OF 3
SN.13 2 FINISHED END PANELS
SN.14 (E) SOAP DISPENSER TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A132 | A133 | A135

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A5.1.7-2

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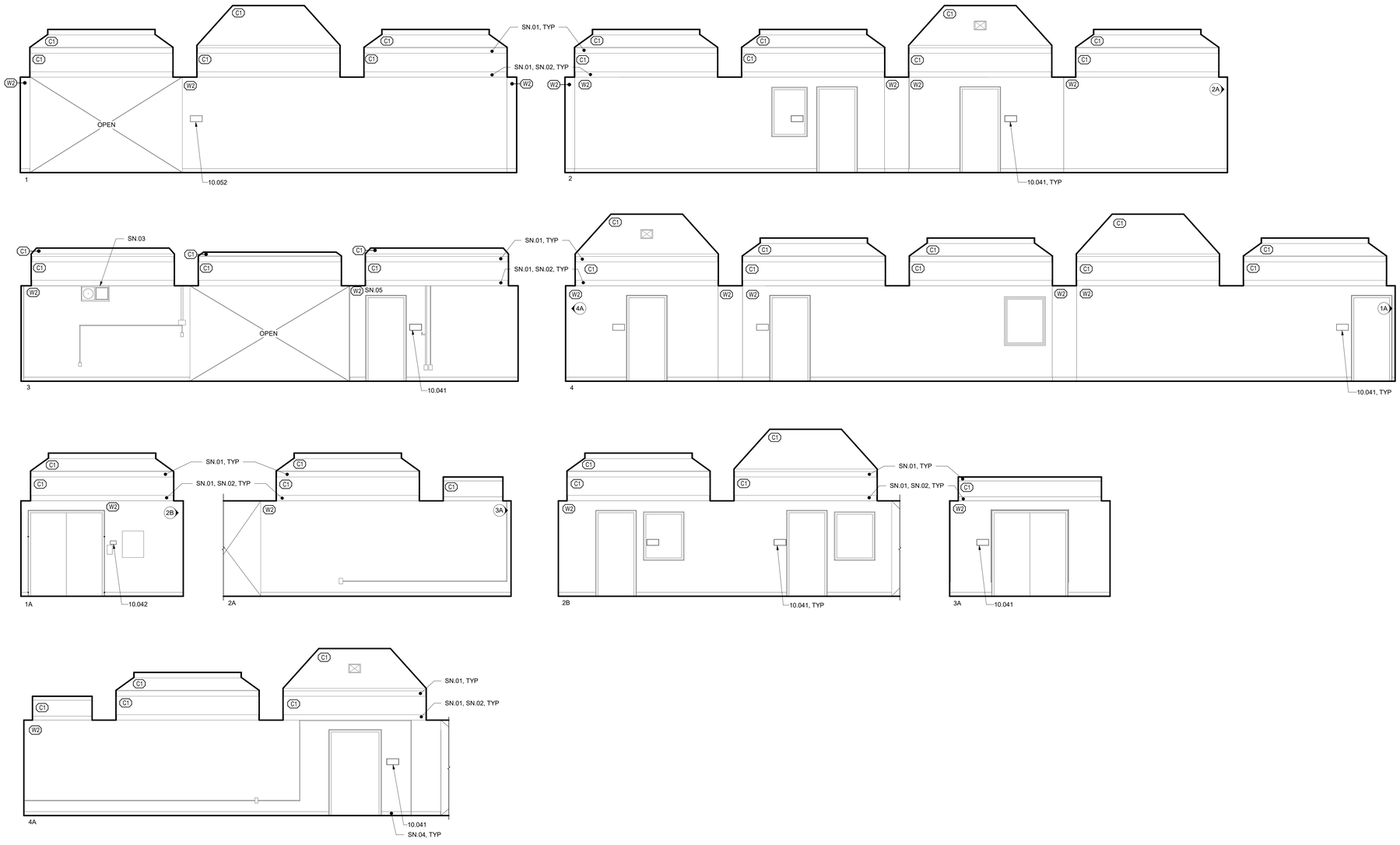


A134 ALCOVE/ A136 LIBRARY

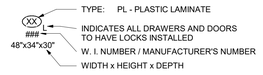
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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) RUBBER BASE TO REMAIN
SN.05 ACCENT COLOR 2

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A134 A136

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
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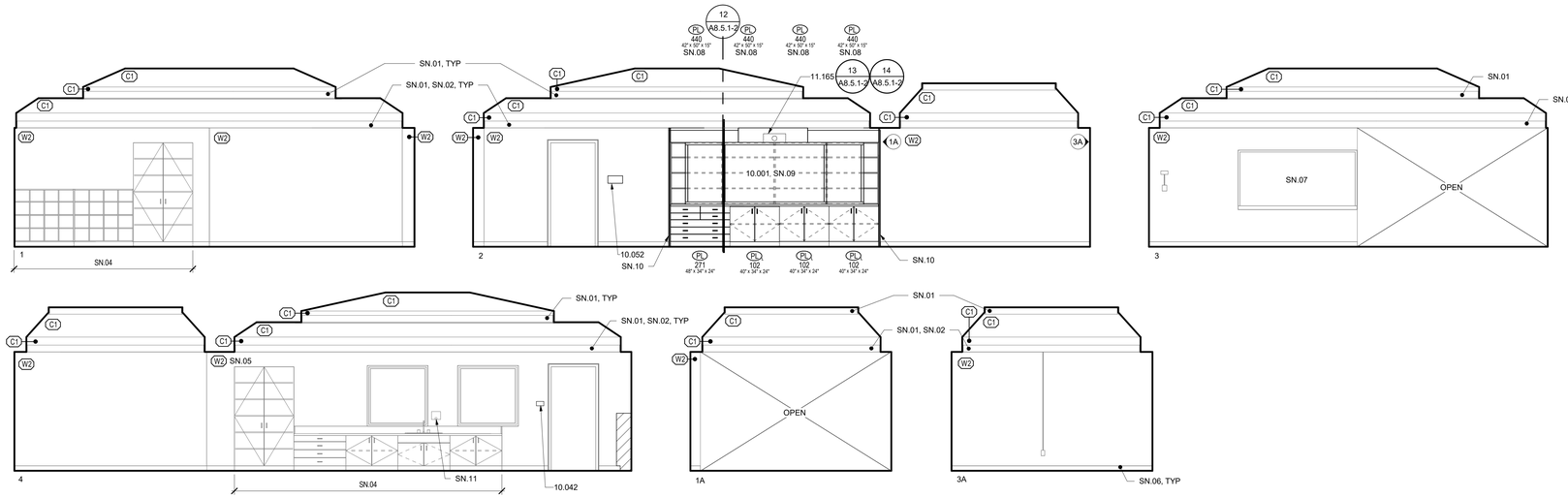
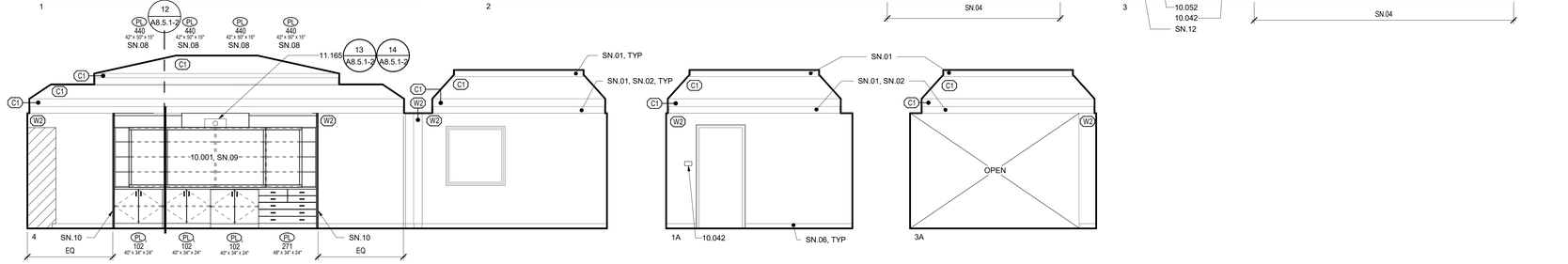


A137 CLASSROOM/ A138 ALCOVE

1/4" = 1'-0"



A139 CLASSROOM/ A140 ALCOVE

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.06 (E) RUBBER BASE TO REMAIN
SN.07 (E) MARKERBOARD TO REMAIN
SN.08 BEHIND MARKERBOARDS
SN.09 4' - 0" X 7' - 0", TYP OF 3
SN.10 2 FINISHED END PANELS
SN.11 (E) SOAP DISPENSER TO REMAIN
SN.12 (E) FIRE EXTINGUISHER TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A137 | A138 | A139 | A140

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL -
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
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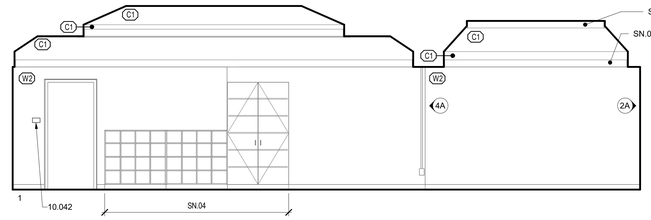
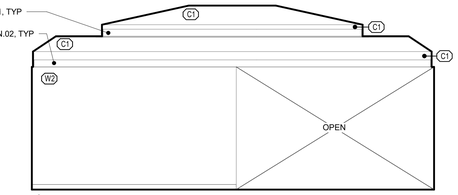
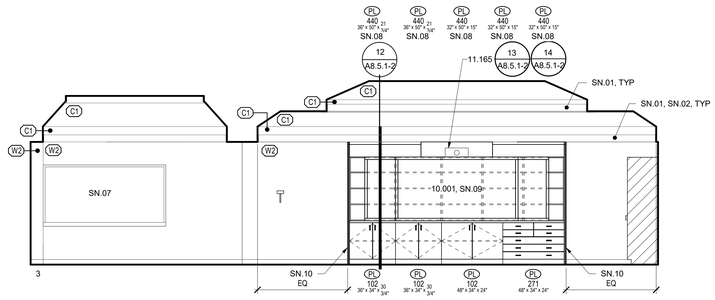
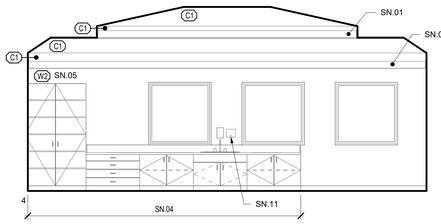
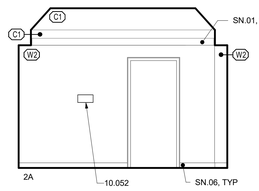
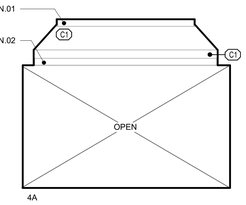






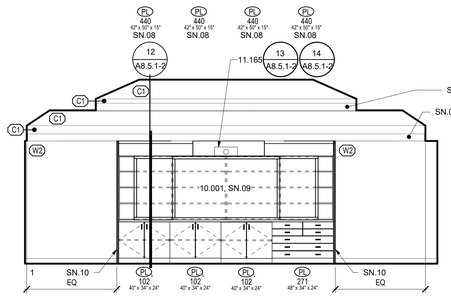


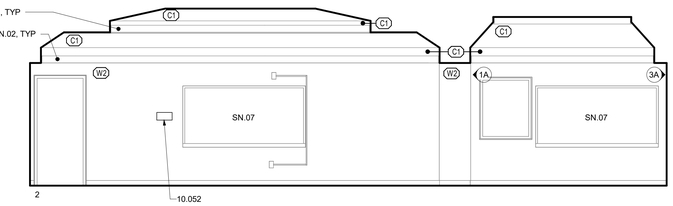


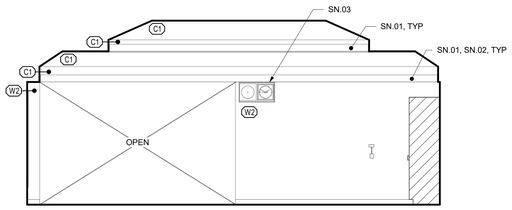


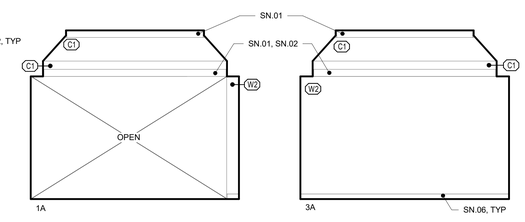
A143 ALCOVE/ A144 CLASSROOM

1/4" = 1'-0"



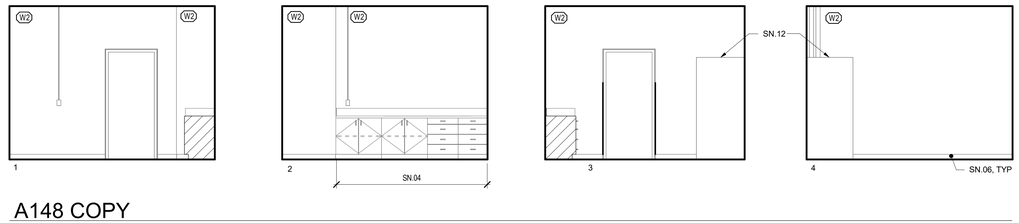






A145 ALCOVE/ A147 CLASSROOM

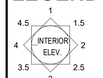
1/4" = 1'-0"



A148 COPY

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.06 (E) RUBBER BASE TO REMAIN
SN.07 (E) MARKERBOARD TO REMAIN
SN.08 BEHIND MARKERBOARDS
SN.09 4' - 0" X 7' - 0", TYP OF 3
SN.10 2 FINISHED END PANELS
SN.11 (E)SOAP DISPENSER TO REMAIN
SN.12 (E) ELECTRICAL EQUIPMENT TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A143 | A144 | A145 | A147 | A148

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.10-2**

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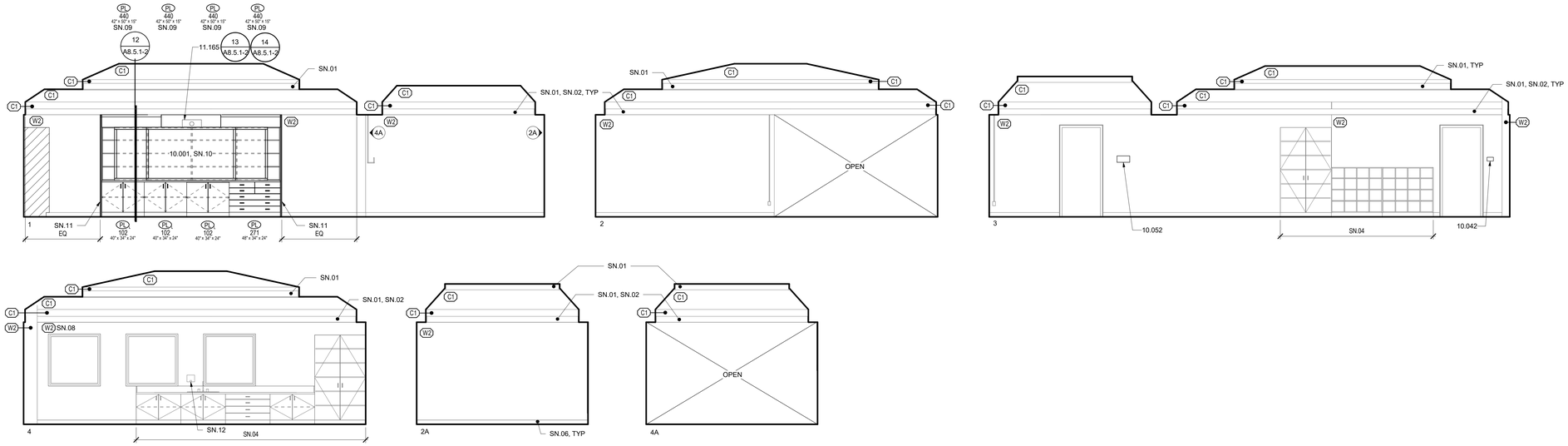
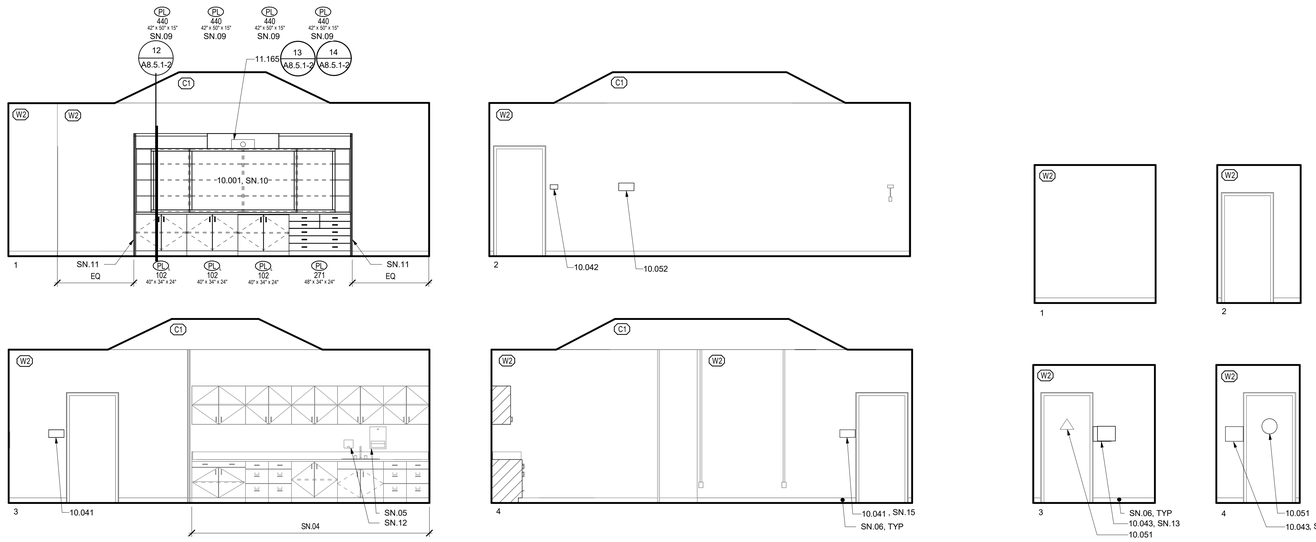


A149 ALCOVE/ A150 CLASSROOM

1/4" = 1'-0"



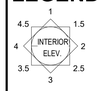
A151 STAFF

1/4" = 1'-0"

A152 VESTIBULE

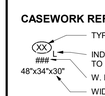
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.09 BEHIND MARKERBOARDS
SN.10 4'- 0" X 7'- 0", TYP OF 3
SN.11 2 FINISHED END PANELS
SN.12 (E) SOAP DISPENSER TO REMAIN
SN.13 SIGN TO READ 'MEN'
SN.14 SIGN TO READ 'WOMEN'
SN.15 SIGN TO READ 'VESTIBULE'

KEYNOTES

10.001	MARKERBOARD: HORIZONTAL SLIDING
10.041	SIGNAGE: ROOM IDENTIFICATION
10.042	SIGNAGE: TACTILE EXIT
10.043	SIGNAGE: TOILET ROOM IDENTIFICATION
10.051	SIGNAGE: TOILET ROOM DOOR SYMBOL
10.052	SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165	SHORT THROW PROJECTOR

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

WALL

W1	(E) GYPSUM WALLBOARD: PAINTED
W2	(E) VINYL TACKABLE PANELS: PAINTED
W3	(E) WOOD TRIM: PAINTED
W4	(E) WALL CARPET
W5	(E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6	PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7	(E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8	FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A149 | A150 | A151 | A152

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL -
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO.	1515
DATE:	12/21/2022
SHEET	A5.1.11-2

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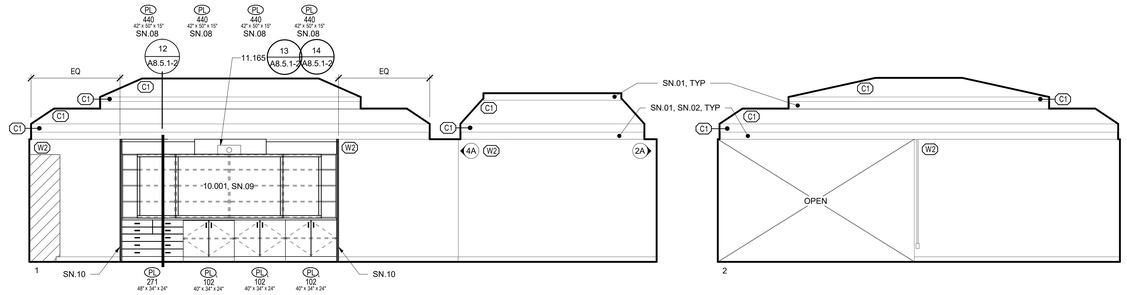
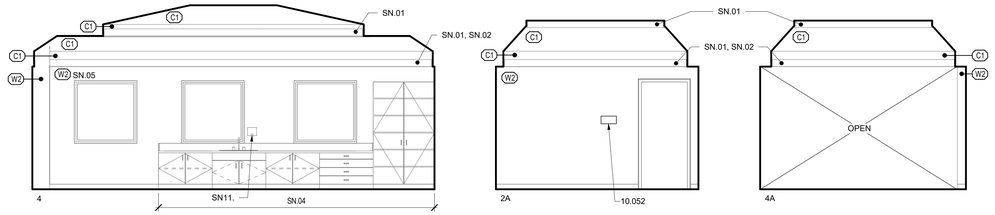
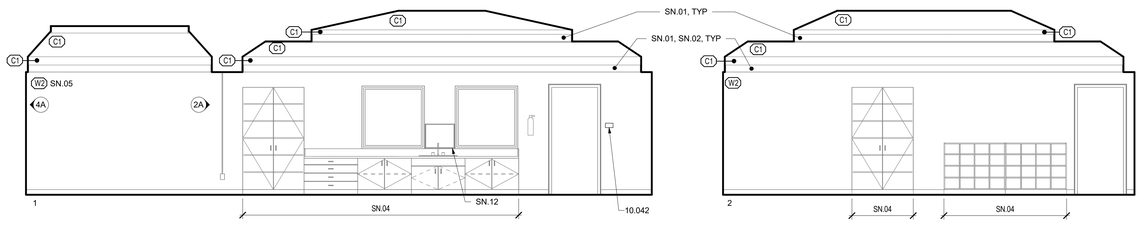
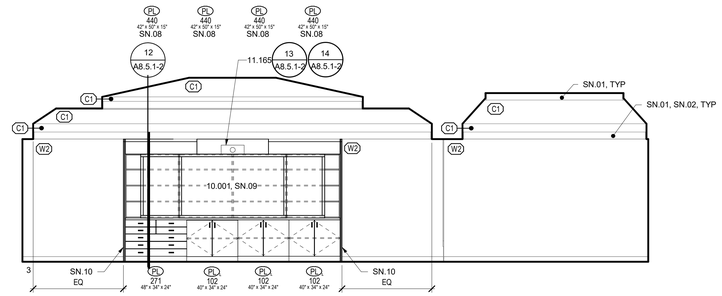


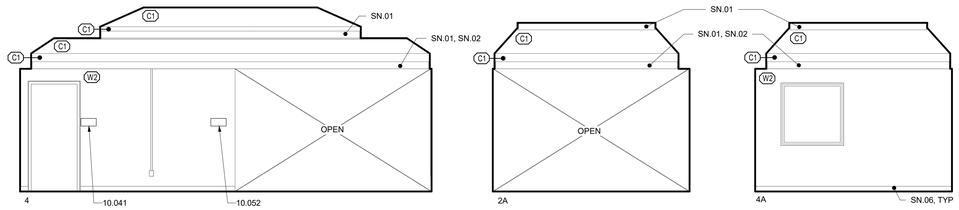


A155 CLASSROOM/ A156 ALCOVE

1/4" = 1'-0"

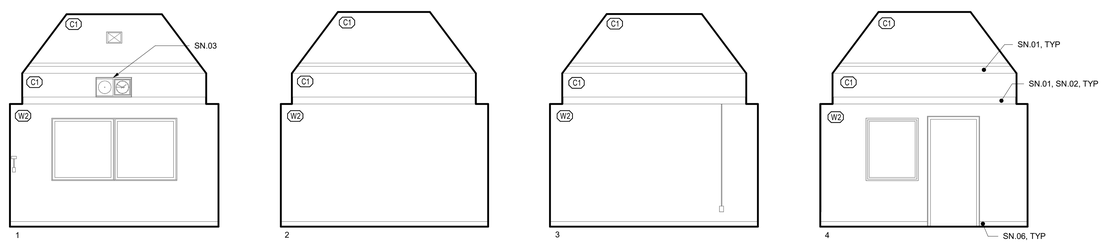






A157 CLASSROOM/ A158 ALCOVE

1/4" = 1'-0"



A159 SCHOOL PSYCHOLOGIST

1/4" = 1'-0"

A155 | A156 | A157 | A158 | A159

LEGEND

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE

XX — TYPE: PL - PLASTIC LAMINATE

L — INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

— W. I. NUMBER / MANUFACTURER'S NUMBER

48"x34"x30" — WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

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 ACCENT COLOR 2
SN.06 (E) RUBBER BASE TO REMAIN
SN.07 (E) MARKERBOARD TO REMAIN
SN.08 BEHIND MARKERBOARDS
SN.09 4' - 0" X 7' - 0", TYP OF 3
SN.10 2 FINISHED END PANELS
SN.11 (E) SOAP DISPENSER TO REMAIN
SN.12 (E) MIRROR TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
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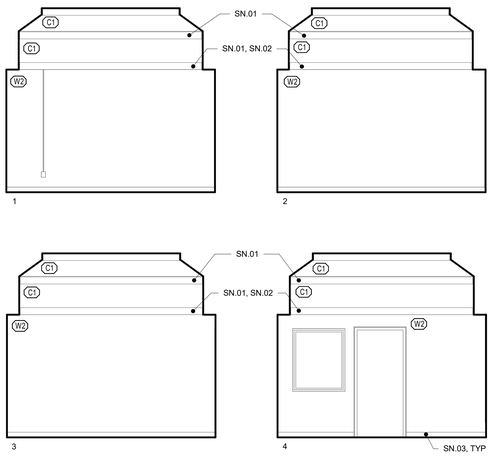
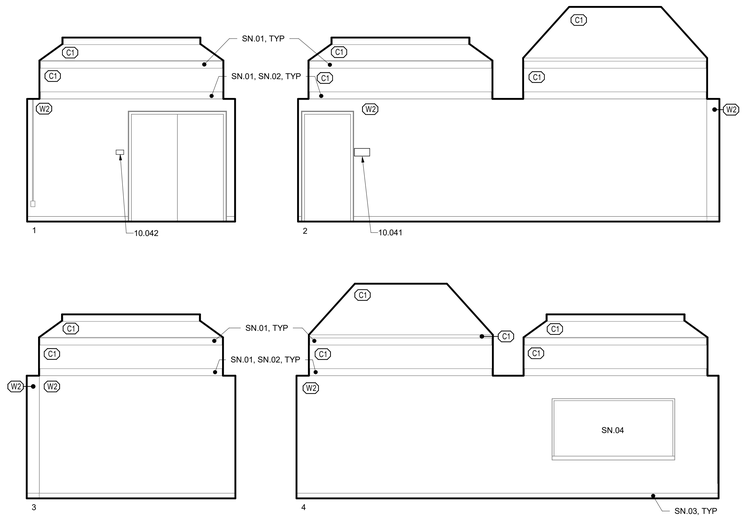


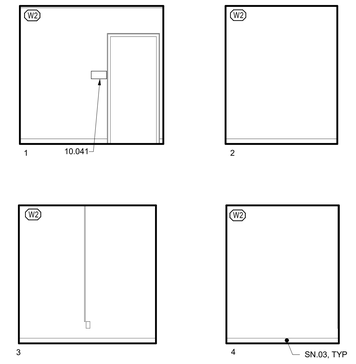
A160 SPEECH

1/4" = 1'-0"



A161 RESOURCE ROOM

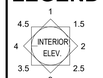
1/4" = 1'-0"



A162 OFFICE

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) WOOD TRIM TO BE PAINTED
SN.02 ACCENT COLOR 1
SN.03 (E) RUBBER BASE TO REMAIN
SN.04 (E) MARKER BOARD TO REMAIN

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

A160 | A161 | A162

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
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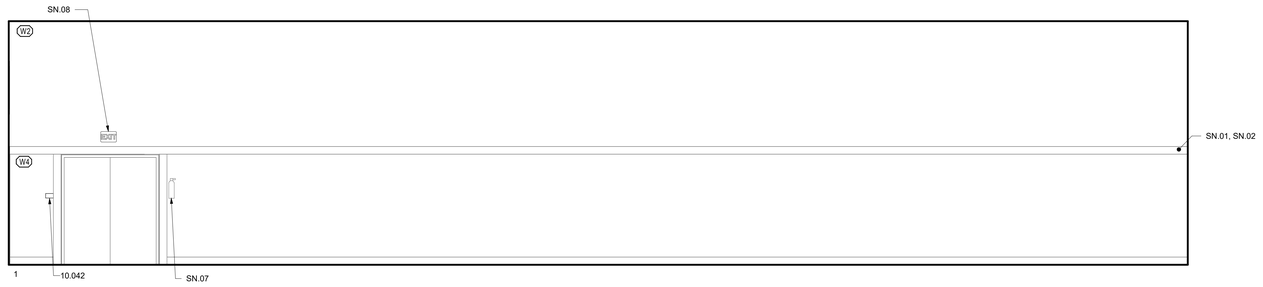

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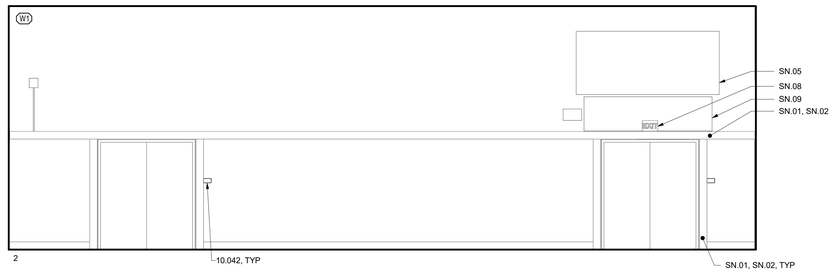

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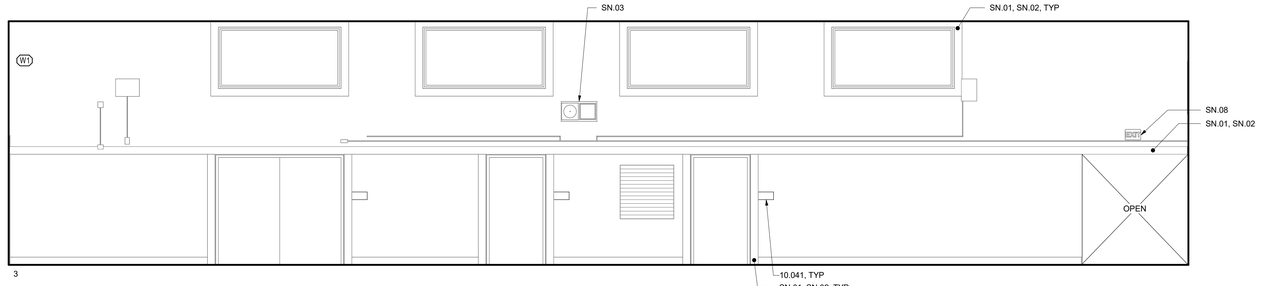

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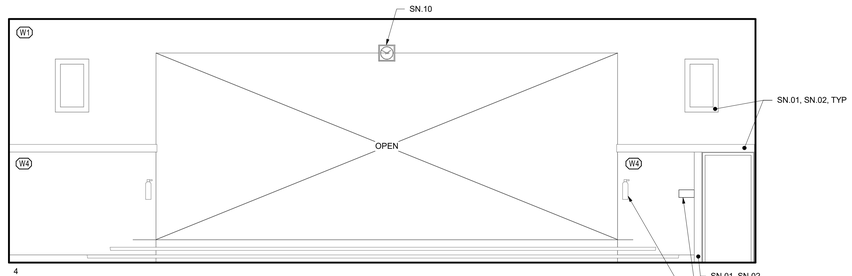
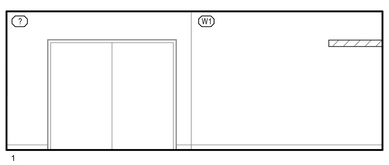


4

B101 MULTI-USE ROOM

1/4" = 1'-0"



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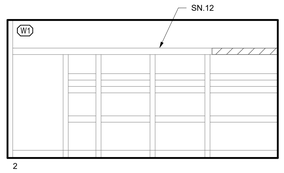

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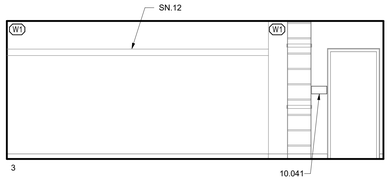

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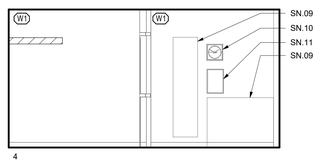

4

B102 TABLE STORAGE

1/4" = 1'-0"

B101 | B102

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) WOOD TRIM TO BE PAINTED
SN.02 ACCENT COLOR
SN.03 (E) CLOCK/SPEAKER TO REMAIN
SN.04 (E) RUBBER BASE TO REMAIN
SN.05 (E) SCOREBOARD TO REMAIN
SN.06 (E) BASKETBALL HOOP TO REMAIN
SN.07 (E) FIRE EXTINGUISHER TO REMAIN
SN.08 (E) EXIT SIGN TO REMAIN
SN.09 (E) EQUIPMENT TO REMAIN
SN.10 (E) CLOCK TO REMAIN
SN.11 (E) MIRROR TO REMAIN
SN.12 (E) SHELVING TO REMAIN

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

rga + A studio of HMC Architects

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING B

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A5.1.14-2

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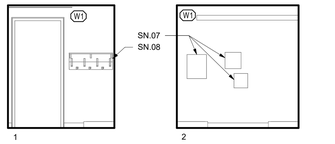
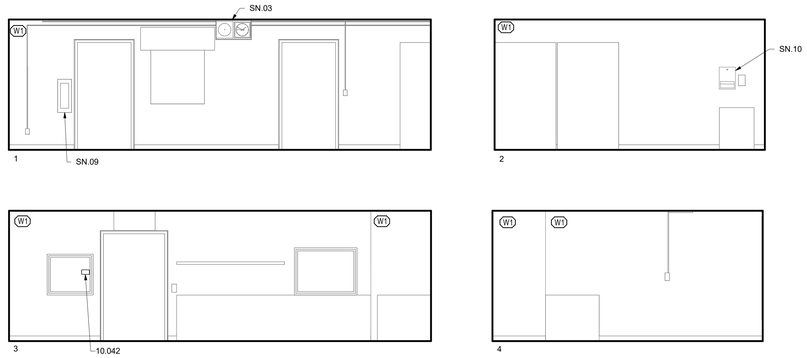


B103 JANITOR

1/4" = 1'-0"

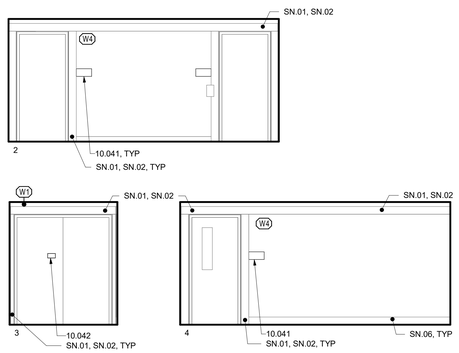


B104 KITCHEN

1/4" = 1'-0"

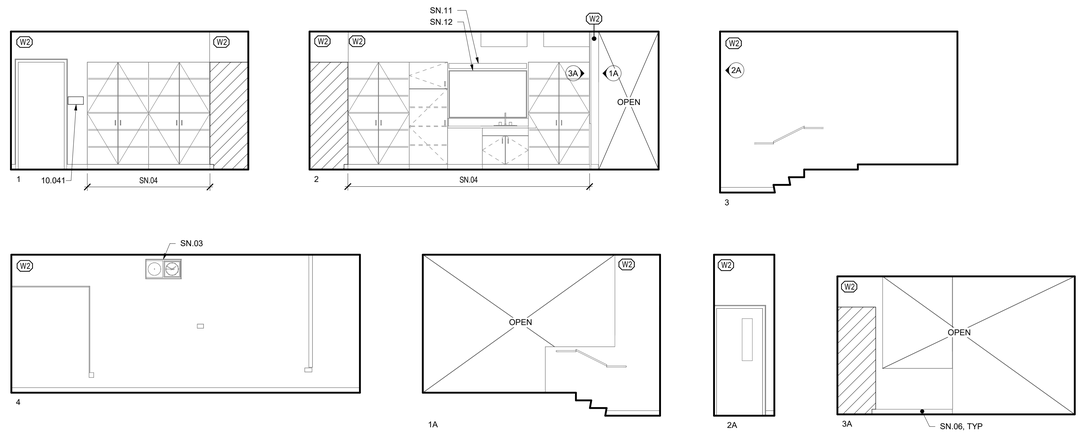
B105 W.H.

1/4" = 1'-0"



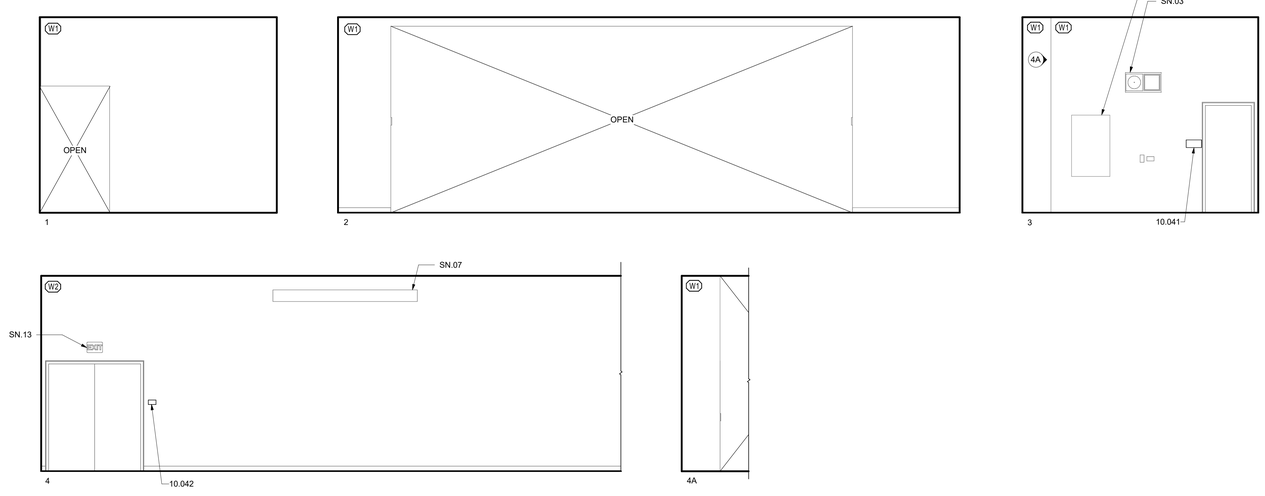
B108 ENTRY CORRIDOR

1/4" = 1'-0"



B109 COUNSELOR

1/4" = 1'-0"



B110 STAGE

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) WOOD TRIM TO BE PAINTED
SN.02 ACCENT COLOR
SN.03 (E) CLOCK/SPEAKER TO REMAIN
SN.04 (E) CASEWORK TO REMAIN
SN.05 (E) KITCHEN EQUIPMENT TO REMAIN
SN.06 (E) RUBBER BASE TO REMAIN
SN.07 (E) EQUIPMENT TO REMAIN
SN.08 (E) MOP AND BROOM HOLDER TO REMAIN
SN.09 (E) FIRE EXTINGUISHER TO REMAIN
SN.10 (E) PAPER TOWEL DISPENSER TO REMAIN
SN.11 (E) LIGHT FIXTURE TO REMAIN
SN.12 (E) MIRROR TO REMAIN

KEYNOTES

10.041 SIGNAGE: ROOM IDENTIFICATION
10.042 SIGNAGE: TACTILE EXIT

FINISHES

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

B103 | B104 | B105 | B108 | B109 | B110

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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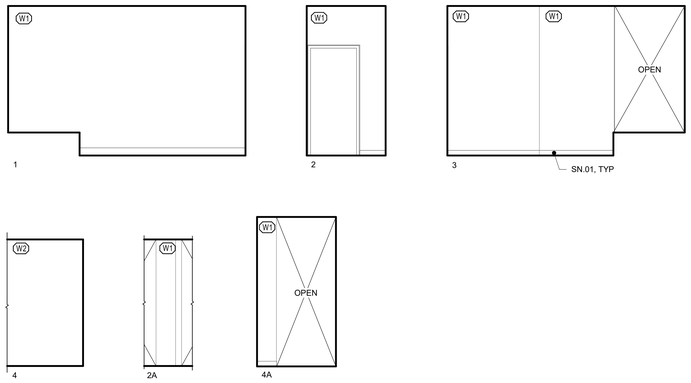
INTERIOR ELEVATIONS - BUILDING B

INCREMENT #2

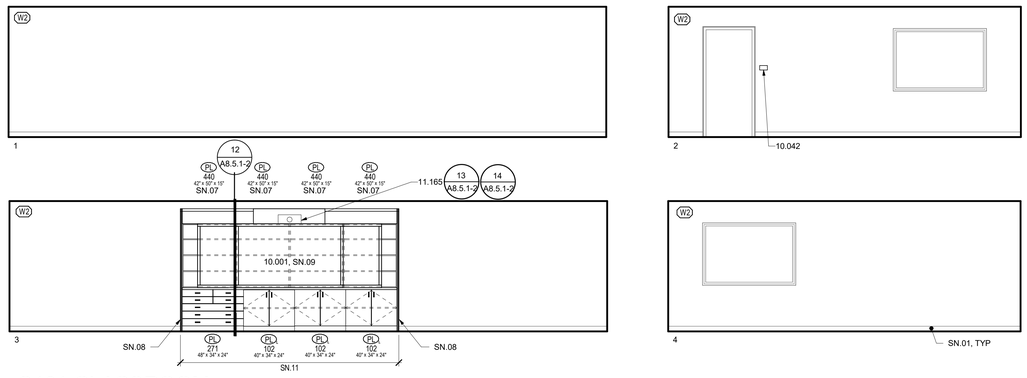
PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A5.1.15-2

12/21/2022 2:49:15 PM C:\Users\arrington\Documents_Abby\Local Files\1515 Villalovoz Mod_CD-New_Abigail McGhee.rvt



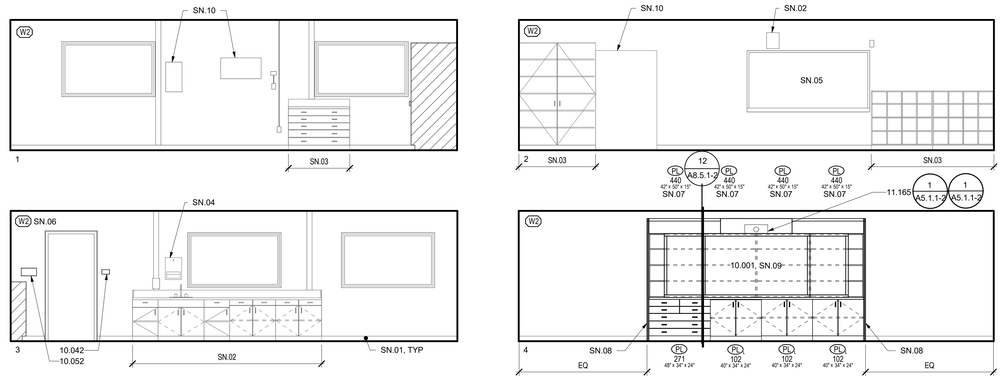
B111 LIFT

1/4" = 1'-0"



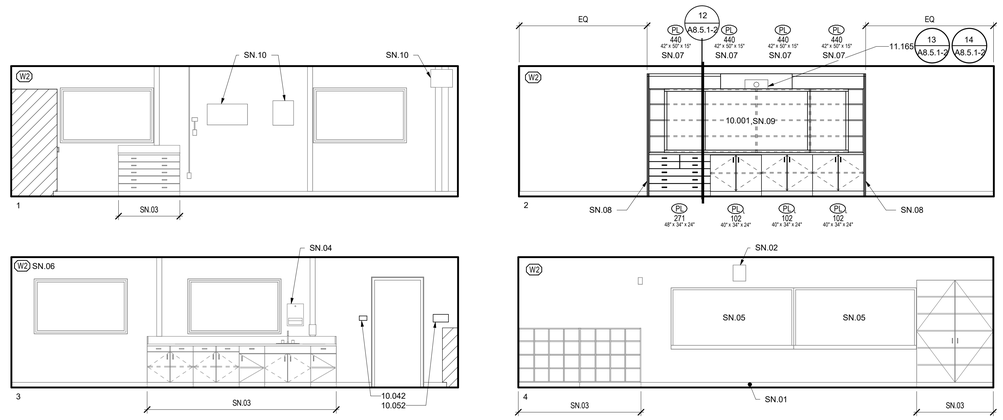
C101 CLASSROOM

1/4" = 1'-0"



D101 CLASSROOM

1/4" = 1'-0"



D102 CLASSROOM

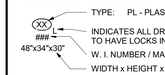
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) RUBBER BASE TO REMAIN
SN.02 (E) SPEAKER TO REMAIN
SN.03 (E) CASEWORK TO REMAIN
SN.04 (E) PAPER TOWEL DISPENSER TO REMAIN
SN.05 (E) MARKERBOARD TO REMAIN
SN.06 ACCENT COLOR 2
SN.07 BEHIND MARKERBOARDS
SN.08 2 FINISHED END PANELS
SN.09 4' - 0" X 7' - 0", TYP OF 3
SN.10 (E) ELECTRICAL EQUIPMENT TO REMAIN
SN.11 VERIFY LOCATION WITH CLIENT

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

FINISHES

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

B111 | C101 | D101 | D102

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR ELEVATIONS - BUILDING B,C, & D

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A5.1.16-2

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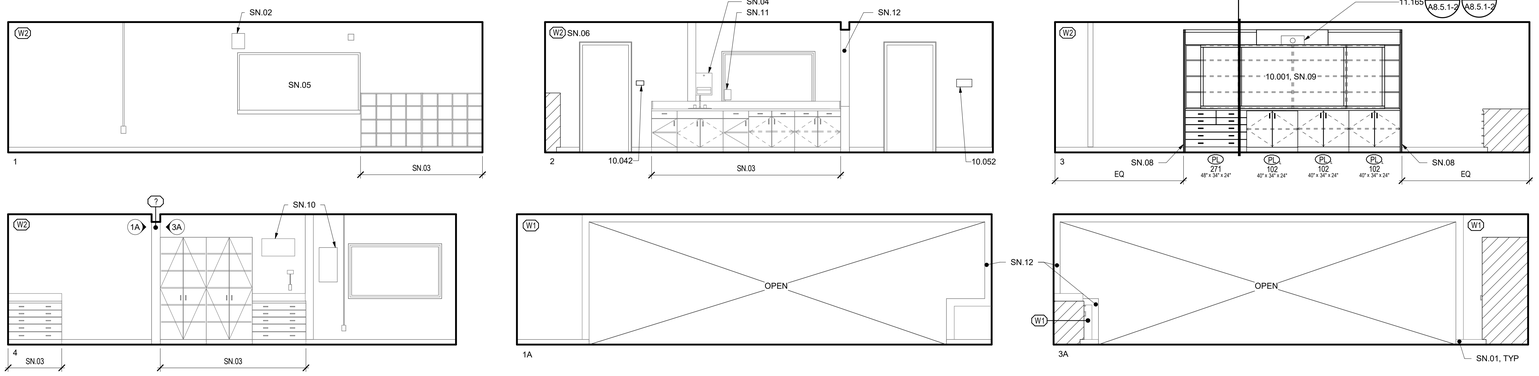
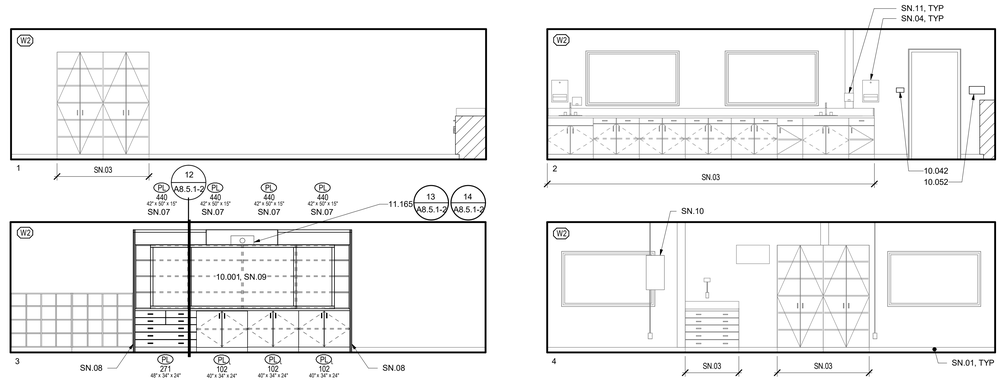


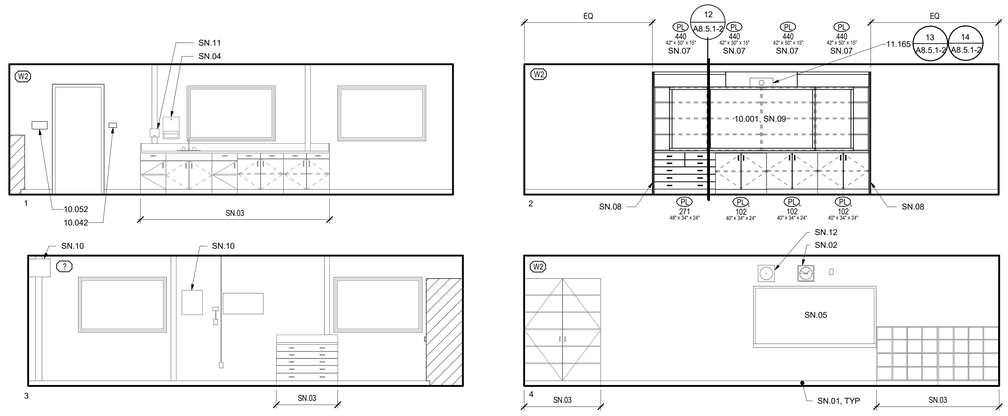
E101 CLASSROOM

1/4" = 1'-0"



E102 CLASSROOM

1/4" = 1'-0"



F101 CLASSROOM

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

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

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

FINISHES

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

E101 | E102 | F101

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL -
INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING E & F

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A5.1.17-2**

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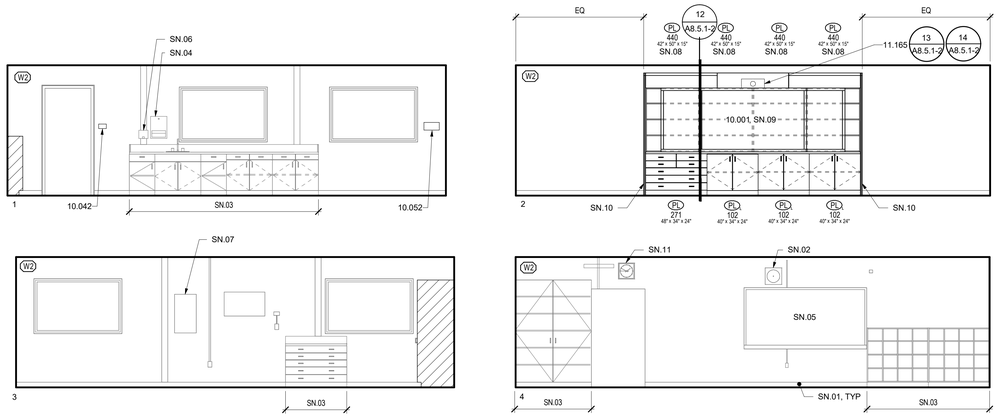
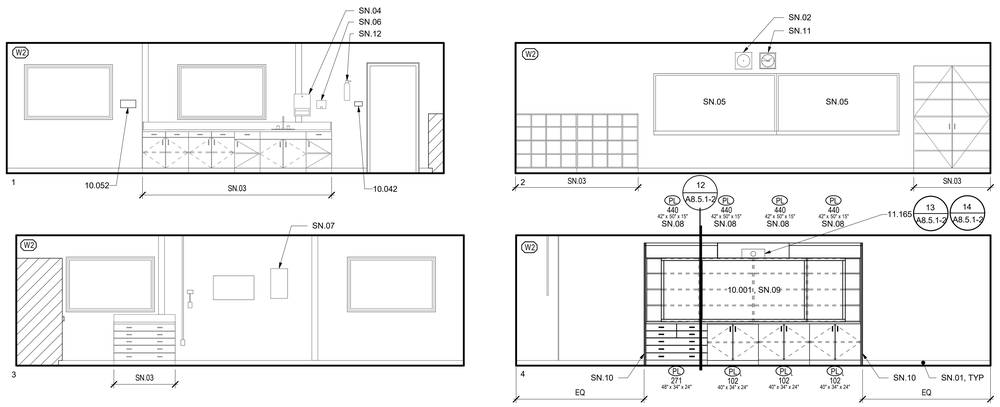


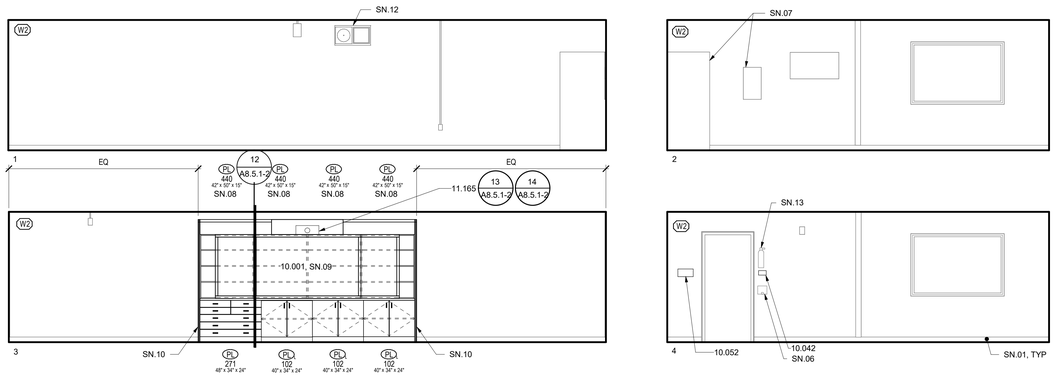
G101 CLASSROOM

1/4" = 1'-0"



G102 CLASSROOM

1/4" = 1'-0"



H101 CLASSROOM

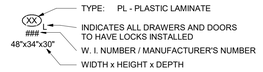
1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) RUBBER BASE TO REMAIN
SN.02 (E) SPEAKER TO REMAIN
SN.03 (E) CASEWORK TO REMAIN
SN.04 (E) PAPER TOWEL DISPENSER TO REMAIN
SN.05 (E) MARKERBOARD TO REMAIN
SN.06 (E) SOAP DISPENSER TO REMAIN
SN.07 (E) ELECTRICAL EQUIPMENT TO REMAIN
SN.08 BEHIND MARKERBOARDS
SN.09 4' - 0" X 7' - 0", TYP OF 3
SN.10 2 FINISHED END PANELS
SN.11 (E) CLOCK TO REMAIN
AN.12 (E) CLOCK/SPEAKER TO REMAIN
SN.13 (E) FIRE EXTINGUISHER TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
10.052 SIGNAGE: ASSISTIVE LISTENING SYSTEM
11.165 SHORT THROW PROJECTOR

FINISHES

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

G101 G102 H101

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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INTERIOR ELEVATIONS - BUILDING G & H

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET
A5.1.18-2

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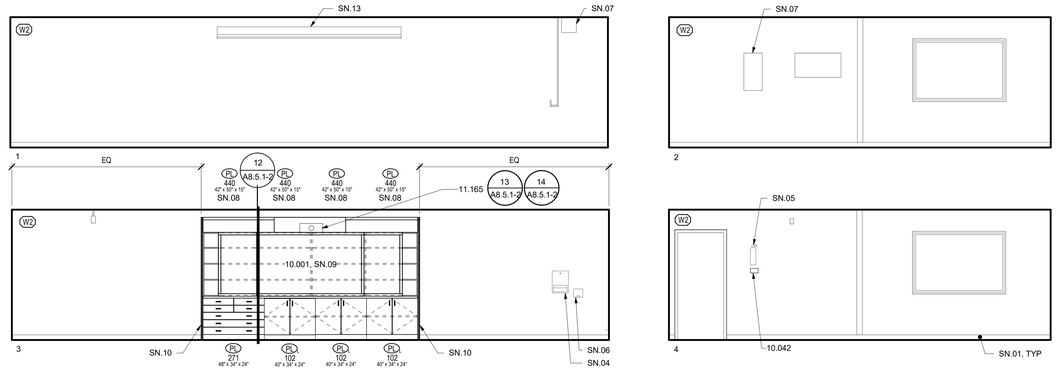

J101 CLASSROOM

1/4" = 1'-0"

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

CASEWORK REFERENCE



TYPE: PL - PLASTIC LAMINATE

INDICATES ALL DRAWERS AND DOORS TO HAVE LOCKS INSTALLED

W. I. NUMBER / MANUFACTURER'S NUMBER

WIDTH x HEIGHT x DEPTH

GENERAL NOTES

1. D.A. INDICATES DISABLED ACCESSIBLE
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.
3. FOR TYPICAL ANCHORAGE DETAILS, SEE A0 SERIES DRAWINGS
4. FRAMED WALLS NOT SHOWN OR NOTED ARE GYPSUM WALL BOARD WITH RUBBER BASE
5. ALL (E) WIREMOLD & EXPOSED CONDUIT TO BE PAINTED TO MATCH WALL

SHEET NOTES

SN.01 (E) RUBBER BASE TO REMAIN
SN.02 (E) SPEAKER TO REMAIN
SN.03 (E) CASEWORK TO REMAIN
SN.04 (E) PAPER TOWEL DISPENSER TO REMAIN
SN.05 (E) FIRE EXTINGUISHER TO REMAIN
SN.06 (E) SOAP DISPENSER TO REMAIN
SN.07 (E) ELECTRICAL EQUIPMENT TO REMAIN
SN.08 BEHIND MARKERBOARDS
SN.09 4' - 0" X 7' - 0", TYP OF 3
SN.10 2 FINISHED END PANELS
SN.13 (E) PROJECTION SCREEN TO REMAIN

KEYNOTES

10.001 MARKERBOARD: HORIZONTAL SLIDING
10.042 SIGNAGE: TACTILE EXIT
11.165 SHORT THROW PROJECTOR

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

WALL

W1 (E) GYPSUM WALLBOARD: PAINTED
W2 (E) VINYL TACKABLE PANELS: PAINTED
W3 (E) WOOD TRIM: PAINTED
W4 (E) WALL CARPET
W5 (E) PAINT o/ (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W6 PAINT o/ FIBERGLASS REINFORCED PLASTIC o/ GYPSUM WALLBOARD
W7 (E) FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD
W8 FIBERGLASS REINFORCED PLASTIC o/ (E) GYPSUM WALLBOARD

J101

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/23
RENEWAL DATE
STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

Revision

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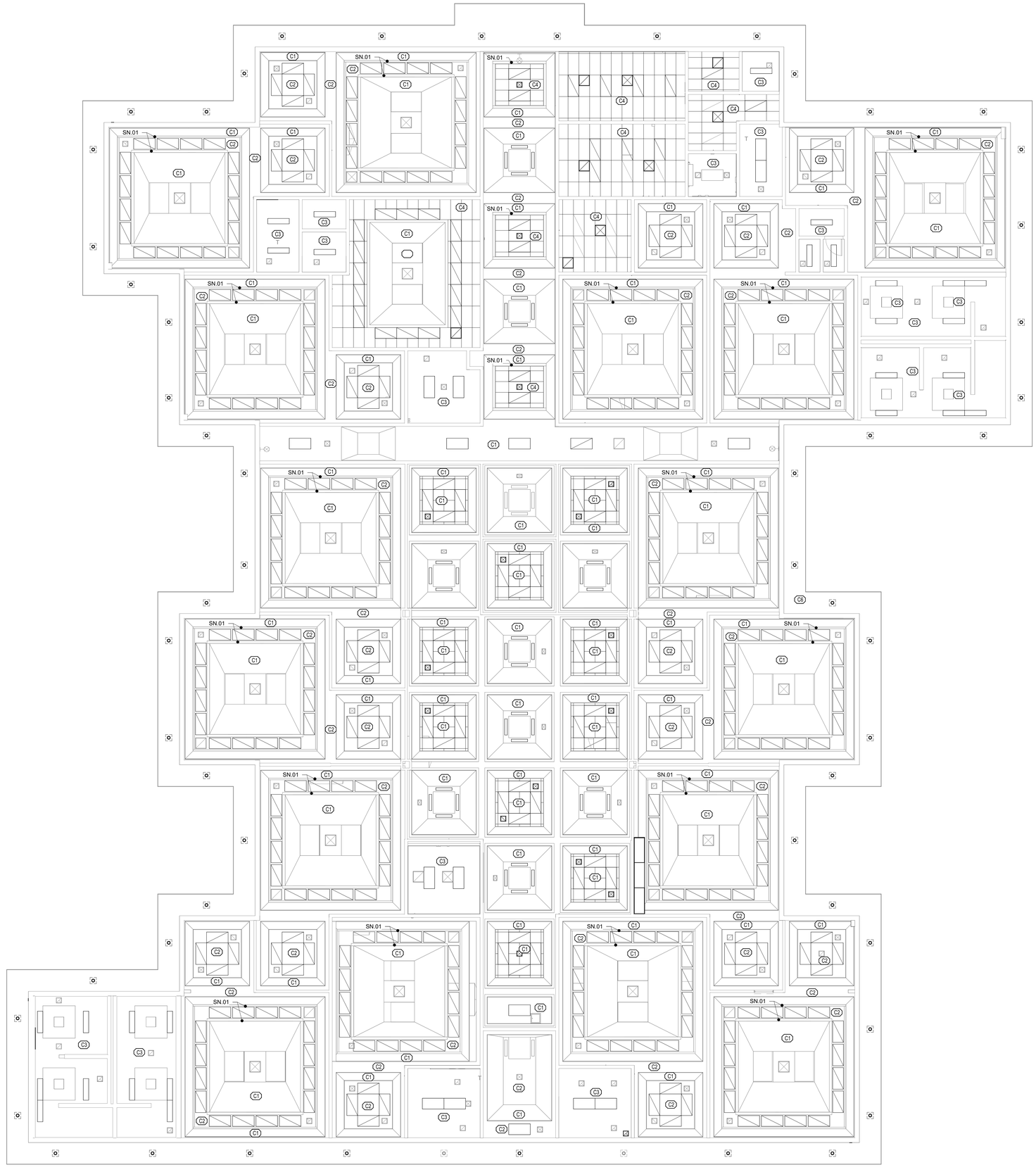
INTERIOR ELEVATIONS - BUILDING J

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET A5.1.19-2

12/21/2022 2:49:45 PM C:\Users\amcgrav\Documents_Alloy\Local Files\1515 Villalovoz Mod_CD-New_Abigail.McGrav.rvt



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

LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE OR SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- RCX — FIRE RATED CEILING
- X'-X" — INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- EXIT SIGN, SEE ELECTRICAL
  - WALL MOUNTED
  - CEILING MOUNTED

GENERAL NOTES

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

SHEET NOTES

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

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

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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REFLECTED CEILING PLAN - BUILDING A

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A6.2.1-2**

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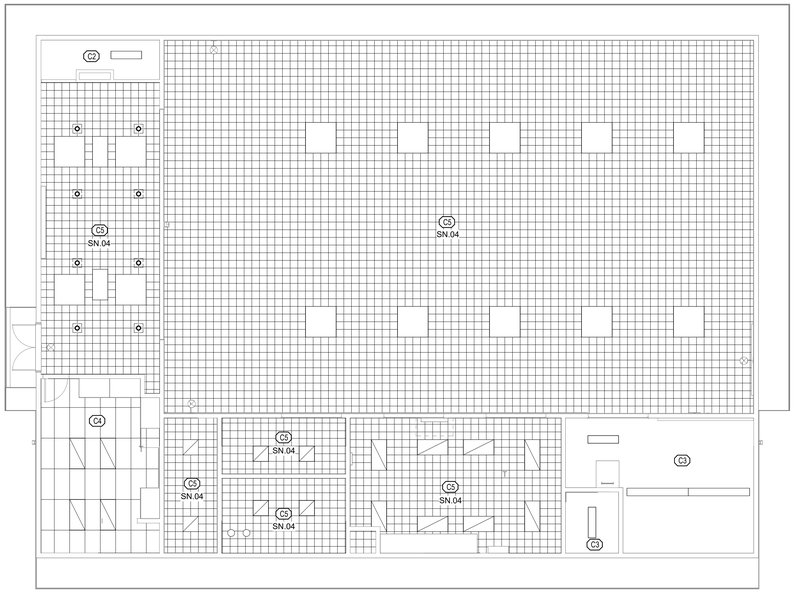
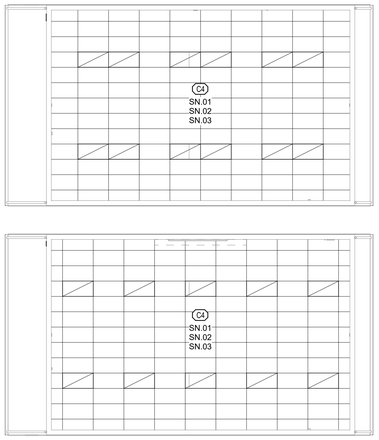
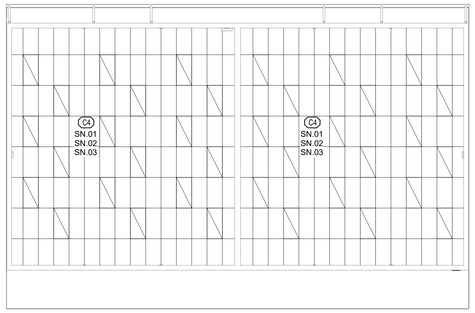


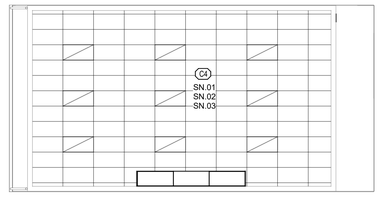
1 BUILDING B - REFLECTED CEILING PLAN
1/8" = 1'-0"



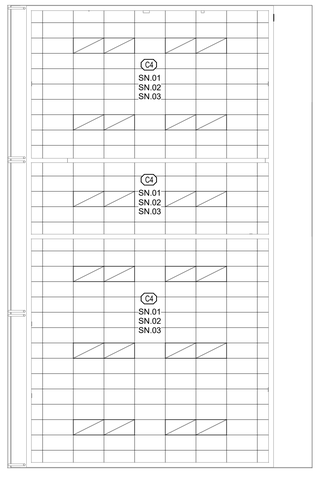
5 BUILDING H AND J - REFLECTED CEILING PLAN
1/8" = 1'-0"



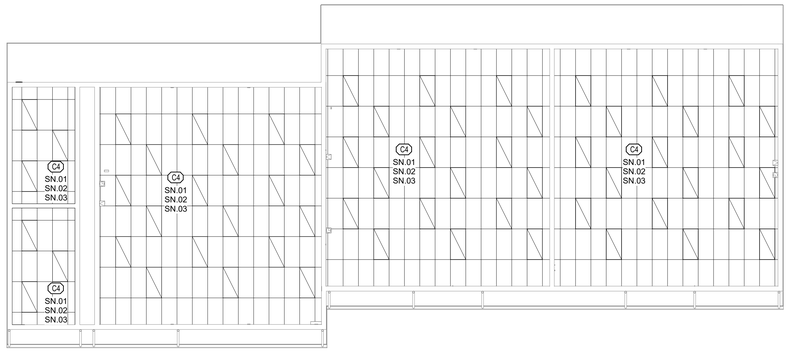
3 BUILDING D - REFLECTED CEILING PLAN
1/8" = 1'-0"



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



6 BUILDING E - 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
- SURFACE MOUNTED LIGHT FIXTURE
- OR SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- RCX FIRE RATED CEILING
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- EXIT SIGN, SEE ELECTRICAL
  - WALL MOUNTED
  - CEILING MOUNTED

GENERAL NOTES

1. 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

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

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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
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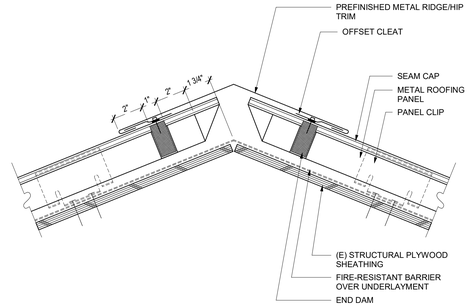
REFLECTED CEILING PLANS - BUILDINGS B THROUGH J

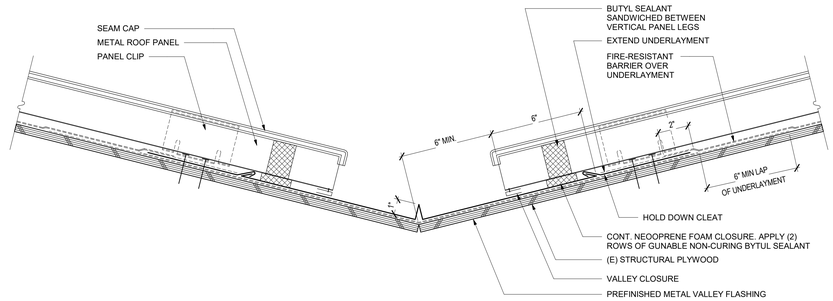
INCREMENT #2

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



1 HIP OR UNVENTED RIDGE
3" = 1'-0"

07201



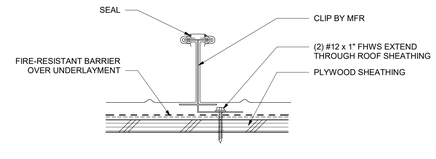
2 VALLEY
3" = 1'-0"

ANCHOR CLIP SCHEDULE

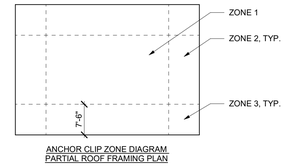
ZONE	ZONE
ZONE 1 - FIELD OF THE ROOF SECTION	24" O.C.
ZONE 2 - EDGE OF THE ROOF SECTION THAT EXTENDS 7'-6" INTO THE FIELD	24" O.C.
ZONE 3 - CORNERS OF THE ROOF SECTION THAT EXTENDS 7'-6" INTO THE FIELD	24" O.C.



PANEL CLIP



SECTION AT CLIP - TYP.



ANCHOR CLIP ZONE DIAGRAM
PARTIAL ROOF FRAMING PLAN

4 METAL ROOF ANCHORAGE
1 1/2" = 1'-0"

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ROOF DETAILS

INCREMENT #2

PROJECT NO. **1515**
DATE: **12/21/2022**
SHEET **A8.1.1-2**

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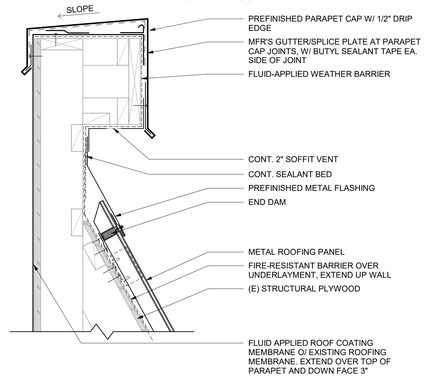
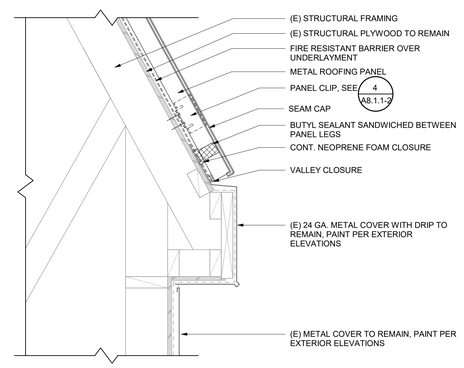
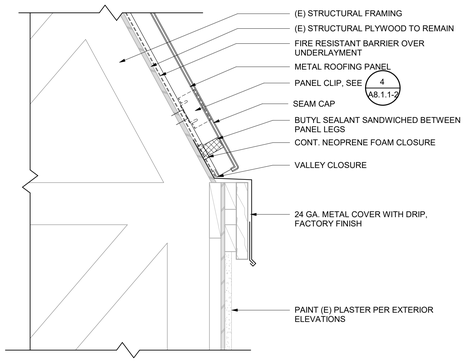


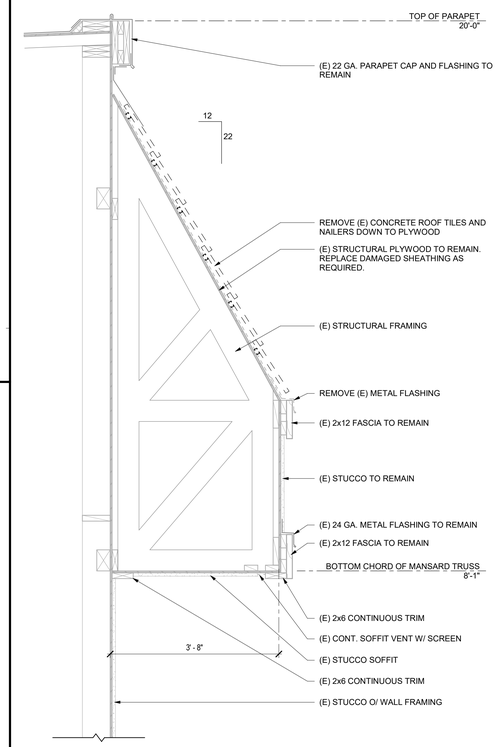
9 PARAPET AT MANSARD
1 1/2" = 1'-0"



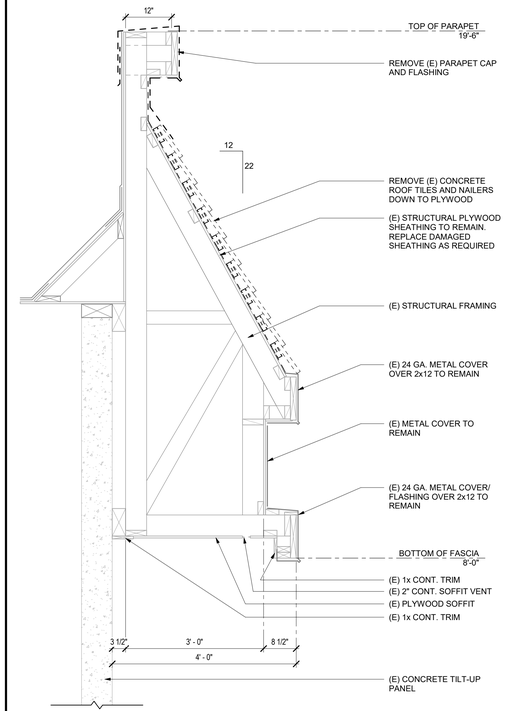
10 FASCIA AT MANSARD - BUILDING A
1 1/2" = 1'-0"



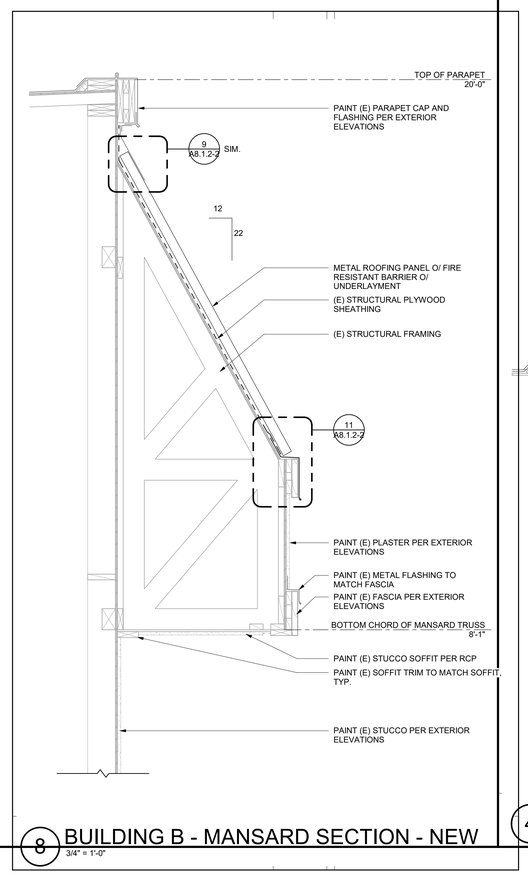
11 FASCIA AT MANSARD - BUILDING B
1 1/2" = 1'-0"



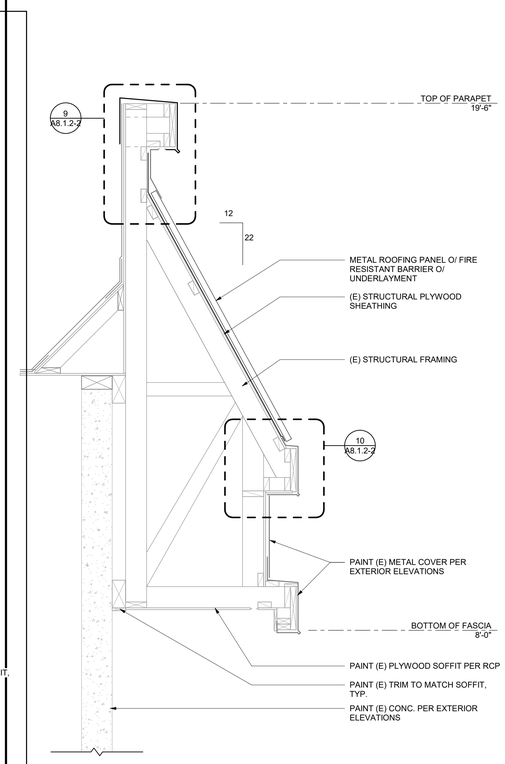
6 BUILDING B - MANSARD SECTION - DEMO
3/4" = 1'-0"



2 BUILDING A - MANSARD SECTION - DEMO
3/4" = 1'-0"



8 BUILDING B - MANSARD SECTION - NEW
3/4" = 1'-0"



4 BUILDING A - MANSARD SECTION
3/4" = 1'-0"

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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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ROOF DETAILS

INCREMENT #2

PROJECT NO.	1515
DATE:	12/21/2022
SHEET	A8.1.2-2

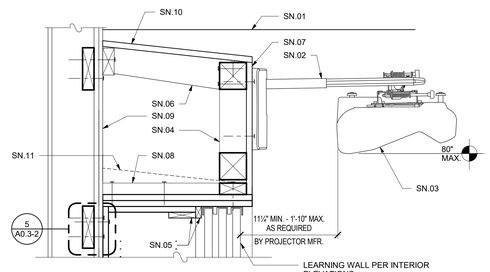
12/21/2022 2:48:08 PM C:\Users\amorgan\Documents_Abbr\Local Files\1515 Villalovoz Mod_CD.New_Abigail.McGrew.rvt

SHEET NOTES:

SN.01 CEILING PER PLAN
SN.02 WALL MOUNTED PROJECTOR ARM (18.5 LBS) FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

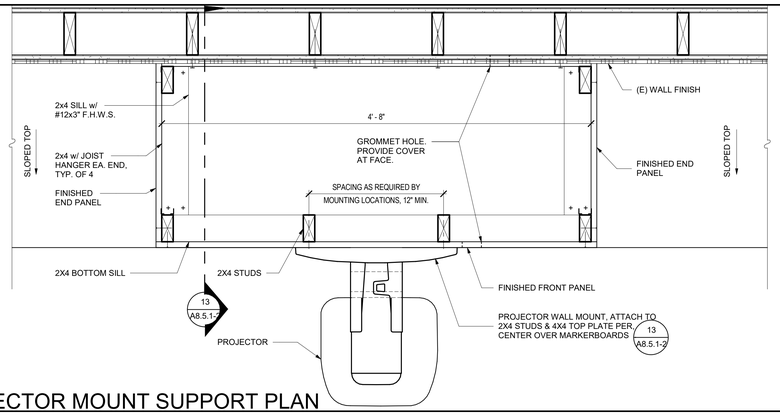
INSTALL w/ 4 - #12 w/ 2" MIN. EMBEDED INTO STUDS PER MFR. WRITTEN INSTRUCTIONS. PROVIDE 2X4 BLOCKING AT LOWER FASTENERS PER DETAIL 9/A0.4 HEIGHT AS REQ'D. FOR PROPER PROJECTION TO TOP OF MARKER BOARD.

SN.03 PROJECTOR, OWNER FURNISHED, CONTRACTOR INSTALLED (12.2 LBS)
SN.04 2X4 STUDS W/ 4 x 4 TOP PLATE & 2x4 BOTTOM SILL. ATTACH SILL TO TOP OF LEARNING WALL W/ #14 x 3" F.H.W.S @ 12" O.C.
SN.05 PROVIDE 1x3 SUPPORT & 1 x TURN DOWN AT FRONT OF CENTER CABINET COVER W/ P. LAM.
SN.06 2x4 AT EACH END w/ SIMPSON A34 EACH END, ATTACH w/ SCREWS
SN.07 PLASTIC LAMINATE PANEL ALL SIDES TO MATCH LEARNING WALL. COVER SCREW HEADS
SN.08 2x4 FLAT AT OUTSIDE FACE OF PROJECTOR MOUNT SUPPORT. FASTEN TO TOP OF LEARNING WALL w/ 2- #12 x 3" F.H.W.S. AT EACH END
SN.09 WALL FINISH PER PLAN
SN.10 PLASTIC LAMINATE o/ 3/4" PARTICLE BOARD w/ #10 x 2 1/2" F.H.W.S. @ 12" O.C. TO LEDGER AND 4x4
SN.11 SLOPED TOP BEYOND

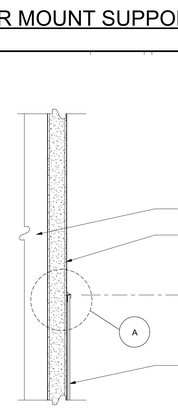


FOR PLAN VIEW SEE DETAIL

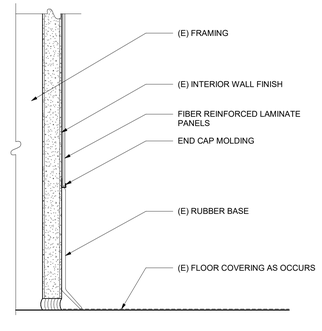
13 PROJECTOR MOUNTING
1 1/2" = 1'-0"



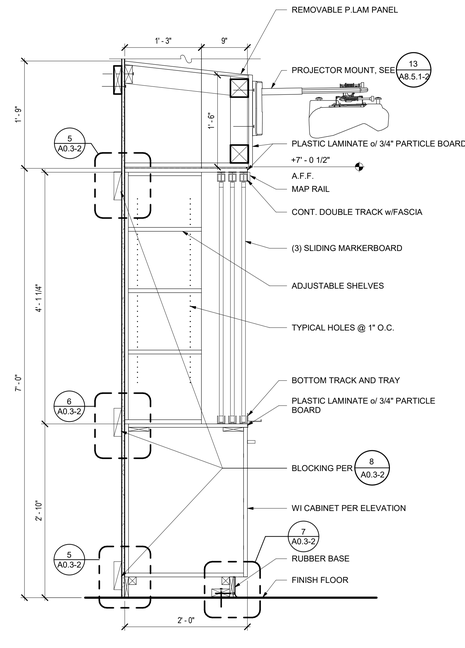
14 PROJECTOR MOUNT SUPPORT PLAN
1 1/2" = 1'-0"



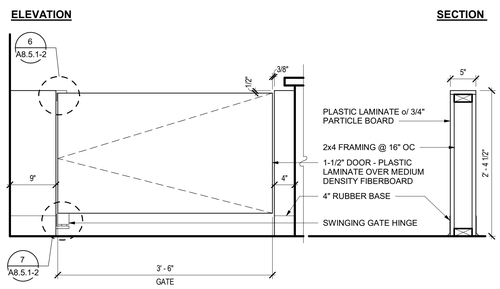
15 FRL - HEAD
6" = 1'-0"



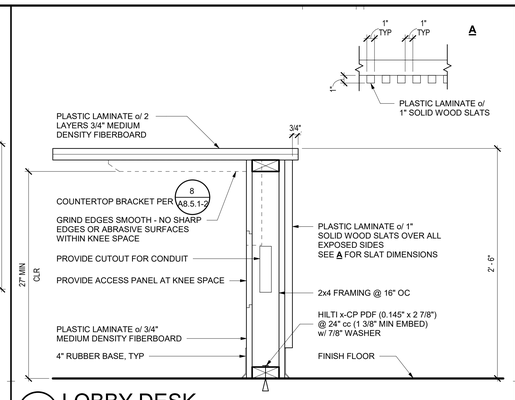
16 FRL - BASE
6" = 1'-0"



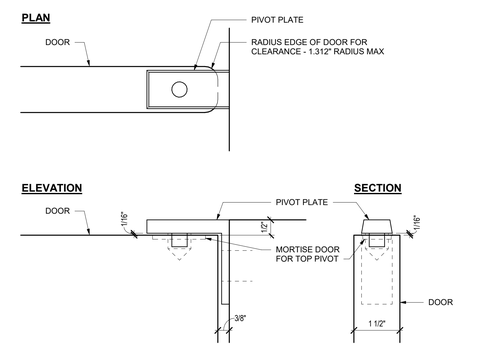
12 LEARNING WALL
1" = 1'-0"



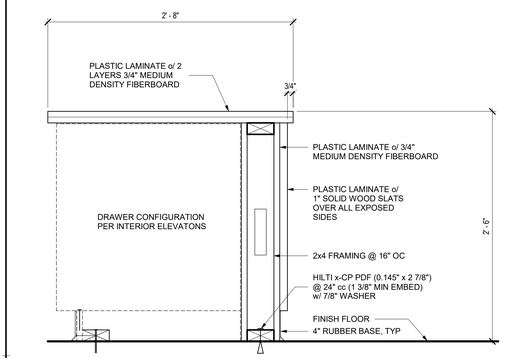
5 LOBBY DESK - SWINGING GATE
1" = 1'-0"



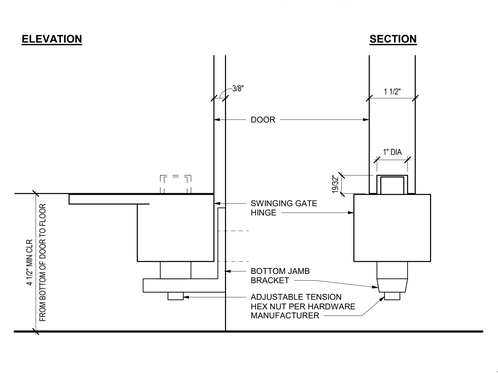
1 LOBBY DESK
1 1/2" = 1'-0"



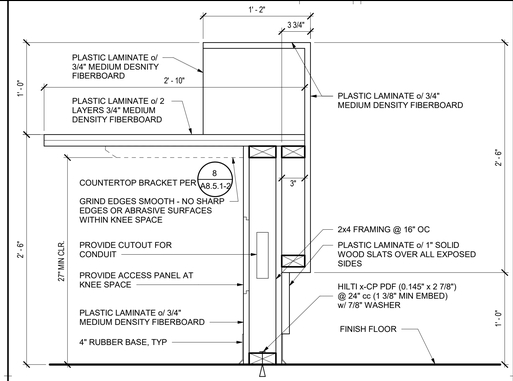
6 SWINGING GATE - TOP
6" = 1'-0"



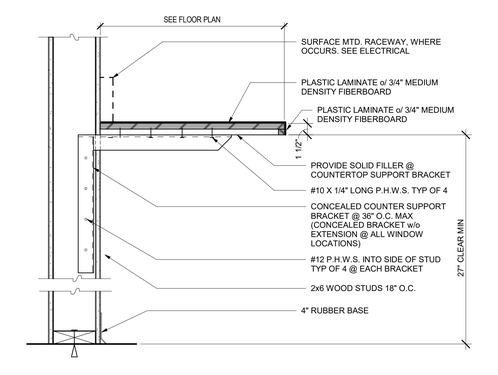
2 LOBBY DESK - DRAWERS
1 1/2" = 1'-0"



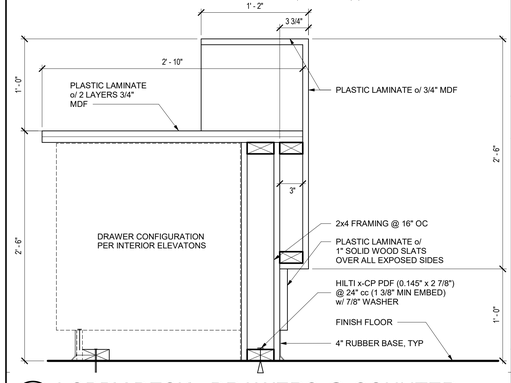
7 SWINGING GATE - BOTTOM
6" = 1'-0"



3 LOBBY DESK- COUNTER
1 1/2" = 1'-0"



8 CONCEALED BRACKET ATTACHMENT
1 1/2" = 1'-0"



4 LOBBY DESK - DRAWERS @ COUNTER
1 1/2" = 1'-0"

rga + A studio of HMC Architects

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/23 RENEWAL DATE STATE OF CALIFORNIA

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

△ Revision

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INTERIOR DETAILS

INCREMENT #2

PROJECT NO. 1515
DATE: 12/21/2022
SHEET **A8.5.1-2**

12/21/2022 2:00:01 PM C:\Users\angon\Documents_Abby\Local Files\153 Villalovoz Mod_CD Files_Abigail.McGinn.rvt

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

LIGHTING CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
D	DIMMING CONTROL, WALL MOUNTED. STUB 1"C INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATING BUSHING. WATTSTOPPER DLM #LMDM-101
O2	AUTOMATIC "ON/OFF" CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER DLM #LMDC-100
C2	AUTOMATIC "ON/OFF" CORNER MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER DLM #LMDX-100
RC a	LIGHTING ROOM CONTROLLER ATTACHED TO JUNCTION BOX ABOVE CEILING, 1 RELAY CONTROLLER W/ 0-10V DIMMING. WATTSTOPPER DLM #LMRC-211
RC a,b	LIGHTING ROOM CONTROLLER ATTACHED TO JUNCTION BOX ABOVE CEILING, 2 RELAY CONTROLLER W/ 0-10V DIMMING. WATTSTOPPER DLM #LMRC-212

SECURITY DEVICE SYMBOLS

SYMBOL	DESCRIPTION
KP	INTRUSION ALARM KEYPAD.
MS	WALL OR CEILING MOUNTED MOTION SENSOR.
SUBSCRIPT C WG WP	SECURITY DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: = CEILING MOUNTED = WIREGUARD = 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
FACP	FIRE ALARM CONTROL PANEL.
MIC	FIRE ALARM REMOTE MICROPHONE.
EOL	FIRE ALARM END OF LINE RESISTOR.
CM	FIRE ALARM CONTROL MODULE.
MM	FIRE ALARM MONITOR MODULE.
SA	FIRE ALARM SYNC ADAPTER MODULE.
F	FIRE ALARM MANUAL PULL STATION.
S	FIRE ALARM SMOKE DETECTOR.
H	FIRE ALARM HEAT DETECTOR.
S	FIRE ALARM SPEAKER.
	FIRE ALARM SPEAKER / STROBE COMBINATION.
	FIRE ALARM CEILING MOUNTED STROBE LIGHT.
	FIRE ALARM WALL MOUNTED STROBE LIGHT.
PIV	(E) POST INDICATOR VALVE.
WF	(E) FIRE SPRINKLER SYSTEM FLOW SWITCH.
F	FIRE SPRINKLER RISER 120V BELL.
SUBSCRIPTS: AC C cd CO E WG WP	FIRE ALARM DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: = ABOVE CEILING MOUNTED DEVICE = CEILING MOUNTED DEVICE = CANDELA = CARBON MONOXIDE = EXPLOSION PROOF = WIREGUARD = WEATHERPROOF

STANDARD ELECTRICAL SYMBOLS

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

POWER DISTRIBUTION SYMBOLS

SYMBOL	DESCRIPTION
$ XXA	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.
J	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
SUBSCRIPTS: C TV WP IG TP USB CR D CLG	DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: = ABOVE COUNTER MOUNTED AT 42" TO CENTER OF BOX = MOUNTED AT 82" AFF TO CENTER OF BOX TO POWER TV/MONITOR = WEATHERPROOF = ISOLATED GROUND = TAMPERPROOF = PROVIDE RECEPTACLE W/ DUAL USB CHARGING = CEILING MOUNTED CORD REEL = DEDICATED = 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.
B	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.

LIGHTING CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
S	SINGLE POLE TOGGLE SWITCH. SEE FLOOR PLANS AND DEVICE MOUNTING DETAIL ON DETAIL SHEET FOR ADDITIONAL MOUNTING HEIGHT REQUIREMENT.
S2	LINE VOLTAGE AUTOMATIC "ON/OFF" DUAL TECHNOLOGY OCCUPANCY SENSOR & SWITCH, WALL MOUNTED. WATTSTOPPER #DW-100
D1	LINE VOLTAGE AUTOMATIC "ON/OFF" PIR OCCUPANCY SENSOR W/ 0-10V DIMMING CONTROL, WALL MOUNTED. WATTSTOPPER #PW-311
D	LINE VOLTAGE TO 0-10V DIMMER AND SWITCH, WALL MOUNTED. WATTSTOPPER #RH4FBL3PW, RHKITW
O2	LINE VOLTAGE AUTOMATIC "ON/OFF" CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER #DT-355
SUBSCRIPTS: 3W a,b,c K MC T WP	LIGHTING CONTROLS SUBSCRIPTS DESIGNATE THE FOLLOWING: = 3-WAY SWITCH = LIGHTING/DEVICE CONTROL (LOWERCASE SUBSCRIPTS) = KEYED = MOMENTARY CONTACT = THERMAL OVERLOAD PROTECTED = 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)
E2.1.3-2	BLDG A FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)
E2.1.4-2	BLDG A FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)
E2.1.5-2	BLDG A FLOOR PLAN - DEMOLITION SIGNAL
E2.1.6-2	BLDG A FLOOR PLAN - DEMOLITION SIGNAL
E2.1.7-2	BLDG A FLOOR PLAN - NEW POWER & SIGNAL
E2.1.8-2	BLDG A FLOOR PLAN - NEW 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 SIGNAL
E2.2.4-2	BLDG B, H, & J FLOOR PLAN - NEW 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 SIGNAL
E2.3.4-2	BLDG C, D, & E FLOOR PLAN - NEW 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 SIGNAL
E2.4.4-2	BLDG F, G, & K FLOOR PLAN - NEW 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

RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
x	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.
#10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
#10	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.

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REGISTERED PROFESSIONAL ENGINEER
YIP SHING DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING

1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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SHEET INDEX & SYMBOLS

INCREMENT #2

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

10/31/2022 10:24:32 AM C:\Users\amcginn\Documents_Abby\Local Files\1515 Villalovoz Mod_DD_Abigail.McGinn.rvt

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/120 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MATTER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24; 1617.A1.25 AND 1617.A1.26.

THE METHOD SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP□ MD□ PP□ E□ — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP□ MD□ PP□ E■ — OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0052-13.

GENERAL ELECTRICAL NOTES

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS SHOWN IN THE DETAILS ARE FOR REFERENCE ONLY. THROUGH- PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH- PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR DSA REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.
3. ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUITS, ETC, AND TO PREVENT HAZARDS TO PERSONNEL, STUDENTS, STAFFS AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY AN OTHER CONTRACTS. CONTRACTOR SHALL PERFORM AN UNDERGROUND SURVEY PRIOR TO EXCAVATION. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
5. EXISTING UNDERGROUND UTILITIES ARE PRESENT, BUT THEIR EXACT LOCATION ARE NOT KNOWN. CONTRACTOR SHALL LOCATE AND PROTECT BEFORE TRENCHING OR EXCAVATING IN ANY AREA. CONSULT UTILITY COMPANIES, "AS-BUILT" DRAWINGS, AND SCHOOL MAINTENANCE PERSONNEL FOR LOCATION OF EXISTING UNDERGROUND WORK. IF EXISTING PIPING OR UTILITIES ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR IMMEDIATELY AT OWN EXPENSE. NEW UNDERGROUND SHALL BE MODIFIED AS NECESSARY TO CONFORM TO EXISTING CONDITIONS.
6. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING AND WALK ROUTES OF NEW UNDERGROUND CONDUITS. NOTE AREAS OF CONCRETE AND ASPHALT BEING CROSSED AND INCLUDE IN BID ALL COSTS FOR CUTTING AND PATCHING AS SHOWN ON DETAILS.
7. ALL CONDUIT RUNS PASSING DIRECTLY FROM ONE PORTABLE BUILDING TO ANOTHER SHALL SPAN THE SPACE BETWEEN BUILDINGS WITH SEALTITE FLEX. THIS REQUIREMENT IS INDEPENDENT OF FOUNDATION TYPE
8. INFORMATION GIVEN, CONCERNING EXISTING ELECTRICAL INSTALLATION IS AS EXACT AS COULD BE SECURED, BUT EXTREME ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDS TO CONFIRM CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
9. PROVIDE TRAFFIC RATED (H/20 LOAD) COVER AND BOXES FOR ALL PULL BOXES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ALL NEW 15A AND 20A, 125V, RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.
11. EXISTING CIRCUITS AND SERVICES SHALL NOT BE INTERRUPTED EXCEPT BY SPECIFIC APPROVAL OF THE SCHOOL. ALL SHUTDOWNS SHALL BE SCHEDULED WITH THE SCHOOL.
12. ALL INTERIOR CONDUIT SHALL BE RUN CONCEALED.

FIRE ALARM RECORD DOCUMENTS CABINET

1. THE FIRE ALARM SYSTEM WORK SHALL INCLUDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION PER NFPA 72, 7.7.2.
2. THE DOCUMENTATION CABINET SHALL BE RED WITH A HINGED, LOCKING DOOR AND SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".
3. ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED INSIDE THE CABINET.
4. CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
5. WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.
6. PROVIDE SYSTEM DOCUMENTS AS APPLICABLE

6.a. RECORD DRAWINGS/AS-BUILTS.

6.b. EQUIPMENT CUT SHEETS AND CA SFM LISTINGS.

6.c. ALTERNATIVE MEANS AND METHODS.

6.d. PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).

6.e. SYSTEM RECORD OF COMPLETION AND ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)

6.f. EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8).

6.g. EVALUATION DOCUMENTATION (NFPA 72, 7.3.9).

6.h. RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6).

6.i. SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2).

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL NOTES

1. FURNISH AND INSTALL A NEW FIRE ALARM SYSTEM WITH INTEGRAL DIGITAL VOICE EVACUATION INCLUDING ALL WIRING AND CONNECTIONS AND OTHER MATERIALS AS SHOWN ON PLANS AND SPECIFIED HEREIN. IT IS THE INTENT THAT A COMPLETE OPERATING SYSTEM CONFORMING TO ALL APPLICABLE CODES BE INSTALLED AND THAT ANY POWER SUPPLIES, RELAYS, RESISTORS, CARDS, MODULES, PROGRAMMING, OR OTHER ITEMS REQUIRED TO ACHIEVE THIS END RESULT SHALL BE FURNISHED WHETHER OR NOT SUCH ITEM OR ITEMS ARE SHOWN OR SPECIFIED MANUAL STATIONS AT THE ADMIN OFFICE.
2. THE CONTRACT DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE OF THE FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL LAYOUT ALL DEVICES, EQUIPMENT, CONDUIT, WIRING, ETC. AND SUBMIT DRAWINGS AS REQUIRED BY THE SPECIFICATIONS. ALL LOCATIONS AND SPACINGS SHALL CONFORM TO APPLICABLE CODES. ANY ADDITIONAL DETECTION AND SIGNALING DEVICES REQUIRED BY CODES AND THE ENFORCING AUTHORITY SHALL BE PROVIDED AS PART OF THIS CONTRACT.
3. THE SYSTEM SHALL BE FULLY AUTOMATIC WITH MANUAL STATION(S) AT MAIN OFFICE.
4. THE SYSTEM SHALL BE ADDRESSABLE WITH CLASS B SIGNALING CIRCUITS (NAC'S) AND CLASS B WIRING FOR NON-ADDRESSABLE PORTIONS OF INITIATION CIRCUITS.
5. INSTALLATION OF THE FIRE ALARM SYSTEM EQUIPMENT SHALL NOT BE STARTED UNTIL SUBMITTAL HAS BEEN APPROVED BY ARCHITECT.
6. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE FOLLOWING CODES:
   CALIFORNIA BUILDING CODE (CBC), 2019
   CALIFORNIA ELECTRICAL CODE (CEC), 2019
   CALIFORNIA FIRE CODE (CFC), 2019
   NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) NFPA 72 WITH CALIFORNIA AMENDMENTS, 2016
7. IF FIRE ALARM TESTING RESULTS DETERMINE ALARM AUDIBILITY DOES NOT REACH 15DB OVER AMBIENT NOISE LEVELS, ADDITIONAL SIGNALING DEVICES SHALL BE REQUIRED. AUDIBLE DEVICES SHALL PROVIDE A SOUND LEVEL OF NOT LESS THAN 75DB AT 10 FT. OR MORE THAN 110DB MAXIMUM.
8. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. ALL DEVICES WITHIN THE NORMAL VIEW RANGE SHALL BE SYNCHRONIZED.
9. REFER TO "FIRE ALARM DEVICE ELEVATIONS" FOR DEVICE MOUNTING HEIGHTS.
10. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR/DSA.
11. POWER SERVICE FOR FIRE ALARM CONTROL PANELS, REMOTE POWER SUPPLIES, VOICE AUDIO BOOSTERS, FIRE/SMOKE DAMPERS, FSR BELL, ETC. SHALL BE ON DEDICATED CIRCUITS. CIRCUIT BREAKER HANDLES FOR SUCH DEDICATED CIRCUITS SHALL BE PAINTED RED AND IDENTIFIED IN DIRECTORY AS "FIRE ALARM CIRCUIT". CIRCUIT BREAKER(S) SERVING CONTROL PANELS, POWER SUPPLIES, VOICE AUDIO BOOSTERS, ETC. SHALL BE EQUIPPED WITH HANDLE LOCKS TO PREVENT BREAKERS FROM BEING OPENED BY UNAUTHORIZED PERSONS.
12. THE LOCATION OF THE DEDICATED CIRCUIT BREAKER SERVING CONTROL PANELS, POWER SUPPLIES, VOICE AUDIO BOOSTERS, ETC. SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL PANELS AND POWER SUPPLIES. PROVIDE ADHESIVE BACKED NAMEPLATE TO READ "DEDICATED 120V CIRCUIT FROM _____" WITH CIRCUIT NUMBER INCLUDED IN TEXT. ATTACH TO INSIDE OF DOOR.
13. FINAL FIRE TEST SHALL BE MADE WITH PROJECT INSPECTOR AS A MINIMUM. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
14. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE PROJECT INSPECTOR/ DSA AFTER COMPLETION OF THE OPERATIONAL ACCEPTANCE TESTS. THE RECORD OF COMPLETION MUST BE SIGNED BY CONTRACTOR.
15. CARBON MONOXIDE DETECTION NOT REQUIRED PER DSA IR 9-2 EXEMPTION 2.2.1.2.
16. LOCATIONS OF DETECTORS ARE BASED ON AVAILABLE RECORD DRAWING (FROM 1980'S) AND CASUAL FIELD OBSERVATION. ACTUAL LOCATIONS SHALL BE FIELD COORDINATED TO PROVIDE TOTAL (COMPLETE) COVERAGE IN ACCORDANCE WITH 2016 NFPA 72 CHAPTER 17, SPECIFICALLY, PARAGRAPHS 17.5.3.1 AND 17.6.3 (ROOF AND FLOOR ARE CONSIDERED CEILINGS FOR THIS PLAN). PROVIDE ADDITIONAL DETECTORS WHERE EXISTING CONDITIONS REQUIRED.

16.1. ADDITIONAL ABOVE CEILING/BELOW FLOOR HEAT DETECTORS MAY BE REQUIRED. REFER TO SHEET NOTES. CONTRACTOR SHALL INCLUDE IN BID THE COST (LABOR, MATERIALS, ALL MARKUPS [INCLUDING SUB AND GENERAL CONTRACTORS], EQUIPMENT RENTAL, OFFICE TIME, AS-BUILT [RECORD DRAWING] AND ALL OTHER LINE ITEMS ON CONTRACTOR'S CHANGE ORDER FORMS (WITHOUT A RESTOCKING FEE OR THE LIKE) FOR (25) ADDITIONAL DETECTORS, AND (25) ADDITIONAL MONITOR MODULES. THE COST SHALL INCLUDE 25' OF 3/4" RACEWAY AND 35' OF 'H' CABLE PER ADDITIONAL DETECTOR. THIS COST SHALL BE A SEPARATE 'LINE ITEM' FOR TRACKING PURPOSES. ANY UNUSED DEVICES/MATERIALS SHALL BE CREDITED TO OWNER AT BID COST.

16.2. ADDITIONAL MONITORING OF EXISTING DUCT SMOKE DETECTORS MAY BE REQUIRED. REFER TO SHEET NOTES. CONTRACTOR SHALL INCLUDE IN BID THE COST (LABOR, MATERIALS, ALL MARKUPS [INCLUDING SUB AND GENERAL CONTRACTORS], EQUIPMENT RENTAL, OFFICE TIME, AS-BUILT [RECORD DRAWING] AND ALL OTHER LINE ITEMS ON CONTRACTOR'S CHANGE ORDER FORMS (WITHOUT A RESTOCKING FEE OR THE LIKE) FOR (20) ADDITIONAL MONITOR MODULES. THE COST SHALL INCLUDE 25' OF 3/4" RACEWAY AND 35' OF 'H' CABLE PER ADDITIONAL DETECTOR. THIS COST SHALL BE A SEPARATE 'LINE ITEM' FOR TRACKING PURPOSES. ANY UNUSED DEVICES/MATERIALS SHALL BE CREDITED TO OWNER AT BID COST.

16.2. ADDITIONAL CONTROL OF EXISTING FIRE SMOKE DAMPER MAY BE REQUIRED. REFER TO SHEET NOTES. CONTRACTOR SHALL INCLUDE IN BID THE COST (LABOR, MATERIALS, ALL MARKUPS [INCLUDING SUB AND GENERAL CONTRACTORS], EQUIPMENT RENTAL, OFFICE TIME, AS-BUILT [RECORD DRAWING] AND ALL OTHER LINE ITEMS ON CONTRACTOR'S CHANGE ORDER FORMS (WITHOUT A RESTOCKING FEE OR THE LIKE) FOR (15) ADDITIONAL MONITOR MODULES. THE COST SHALL INCLUDE 25' OF 3/4" RACEWAY AND 35' OF 'H' CABLE PER ADDITIONAL DETECTOR. THIS COST SHALL BE A SEPARATE 'LINE ITEM' FOR TRACKING PURPOSES. ANY UNUSED DEVICES/MATERIALS SHALL BE CREDITED TO OWNER AT BID COST.

ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
-A-	
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
-B-	
BTR	BUILDING TELECOM ROOM
-C-	
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
-D-	
DC	DIRECT CURRENT
-E-	
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
-F-	
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
-G-	
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
-H-	
HOA	HAND-OFF-AUTO
HP	HORSE POWER
-J-	
J-BOX	JUNCTION BOX
-K-	
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
-L-	
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING

-M-	
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
-N-	
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
-O-	
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
-P-	
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
-R-	
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
-S-	
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
-T-	
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
-U-	
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
-V-	
V	VOLTS
VA	VOLT-AMPS
VAC	VOLTS ALTERNATE CURRENT
-W-	
W	WATTS
WCR	WITHSTAND & CLOSING RATING
WP	WEATHERPROOF
-X-	
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

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REGISTERED PROFESSIONAL ENGINEER YIP SHING DONNY LEE No. E 017376 ELECTRICAL STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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ABBREVIATIONS & ELECTRICAL NOTES

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET **E0.0.2-2**

10/31/2022 10:24:32 AM C:\Users\amcginn\Documents_Abby\Local Files\1515 Villalovoz Mod_DD_Abigail.McGinn.rvt

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.	
Project Name: Villalovoz Elementary School - Increment 2	Report Page: Page 1 of 7
Project Address: 1550 Cypress Drive, Tracy, CA 95376	Date Prepared: 12/15/2022

A. GENERAL INFORMATION

01	Project Location (city)	Tracy	04	Total Conditioned Floor Area (ft^2)	42,975
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☑ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☐ New Lighting System				
☑ Altered Lighting System	Complete Building	42,975	Complete Building	0
Total Area of Work (ft^2)	**42,975**		**0**	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	01 Complete Building §140.6(c)1 (See Table I)	02 Area Category §140.6(c)2 (See Table I)	03 Area Category Additional §140.6(c)2G (+) (See Table J)	04 Tailored §140.6(c)3 (+) (See Table K)		05 Total Allowed (Watts)		06 Total Designed (Watts) (See Table F)	07 Adjustments PAF Control Credits §140.6(a)2 (-) (See Table P)		08 Total Adjusted (Watts) *Includes Adjustments	09 Compliance Results: 05 Must be ≥ 08 §140.6
Conditioned:	28,244.7				=	**28,244.7**	≥	24,080.9		=	**24,080.9**	**COMPLIES**
Unconditioned:					=		≥			=		

Allowed Lighting Power per §140.6(b) (Watts) covers columns 01–05; Adjusted Lighting Power per §140.6(a) (Watts) covers columns 06–08.

Table Continued

Controls Compliance (See Table H for Details)	**COMPLIES with Exceptional Conditions**
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table H. indicates multi-level, daylighting or demand response controls are not required in one or more spaces because the project is an alteration where the lighting power does not exceed 80% of the allowance from §140.6. However, Total Adjusted Power > 0.8 x Total Allowed in Table C.

Table H Indoor Lighting Controls Permit Applicant Notes:
Restrooms: Restrooms are exempt from multi-level controls; EXCEPTION 2 to Section 130.1(b).

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	Fail
A1, A1E, A2, A2E	2x4 Troffer	☐	☐	34.2	Mfr. Spec[2]	587	☐	20,075.4	☐	☐
A3, A3E	2x4 Troffer	☐	☐	29.5	Mfr. Spec[2]	6	☐	177	☐	☐
B1	3' Linear	☐	☐	32.4	Mfr. Spec[2]	38	☐	1,231.2	☐	☐
B2	4' Linear	☐	☐	43.2	Mfr. Spec[2]	8	☐	345.6	☐	☐
C	1x4 Troffer	☐	☐	20.1	Mfr. Spec[2]	28	☐	562.8	☐	☐
D	4" Downlight	☐	☐	4	Mfr. Spec[2]	10	☐	40	☐	☐
E	4' Strip	☐	☐	19.7	Mfr. Spec[2]	1	☐	19.7	☐	☐
F, FE	2x4 NSF Troffer	☐	☐	46.7	Mfr. Spec[2]	8	☐	373.6	☐	☐
G, GE	2x4 Modular Highbay	☐	☐	90.8	Mfr. Spec[2]	10	☐	908	☐	☐

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	Fail
H	4x4 Surface	☐	☐	48	Mfr. Spec[2]	4	☐	192	☐	☐
I	2x4 Surface	☐	☐	62.8	Mfr. Spec[2]	2	☐	125.6	☐	☐
J	LED Lamp	☐	☐	10	Mfr. Spec[2]	3	☐	30	☐	☐
X1, X2	Exit Sign	☐	☐	4.5	Mfr. Spec[2]	13	☑		☐	☐
						Total Designed Watts CONDITIONED SPACES:		**24,080.9**		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01 Mandatory Demand Response §110.12(c)	02 Shut-Off Controls §130.1(c)	03 Field Inspector Pass	Fail
NA: ≤ 80% LP (alt only)	See Area/Space Level Controls	☐	☐

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Skylit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	Fail
Restrooms	School Building	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA	☐	☐	☐

04	05	06	07	08	09	10	11	12 Pass	Fail
Classrooms	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
Multi-Use	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
Office/Administrative Areas	Office Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
Library	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 Plan Sheet Showing Daylit Zones: N/A

Restrooms	*Restrooms are exempt from multi-level controls; EXCEPTION 2 to Section 130.1(b).*

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft^2)	04 Area (ft^2)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustment: Area Category	PAF
Classrooms, Library	School Building	0.65	33,565	21,817.25	☐	☐
Multipurpose	Assembly Building	0.7	6,219	4,353.3	☐	☐
Offices	Office Building	0.65	3,191	2,074.15	☐	☐
	TOTAL:		**42,975**	**28,244.7**	See Tables J or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Karli Ching	Documentation Author Signature: KMChing
Company: EDGE Electrical Consulting, Inc.	Signature Date:
Address: 1801 7th Street, Suite 150	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Sacramento, CA 95811	Phone: 916-256-2460

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name: Yip Shing Donny Lee	Responsible Designer Signature: [signature]
Company : EDGE Electrical Consulting, Inc.	Date Signed:
Address: 1801 7th Street, Suite 150	License: E 17376
City/State/Zip: Sacramento, CA 95811	Phone: 916-256-2460

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REGISTERED PROFESSIONAL ENGINEER YIP SHING DONNY LEE No. E 017376 ELECTRICAL STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street Suite 150 Sacramento, CA 95811 916.256.2460
1151 Harbor Bay Pkwy Suite 123A Alameda, CA 94502 510.634.7200
Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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TITLE 24 COMPLIANCE

INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/22
SHEET	E0.0.3-2

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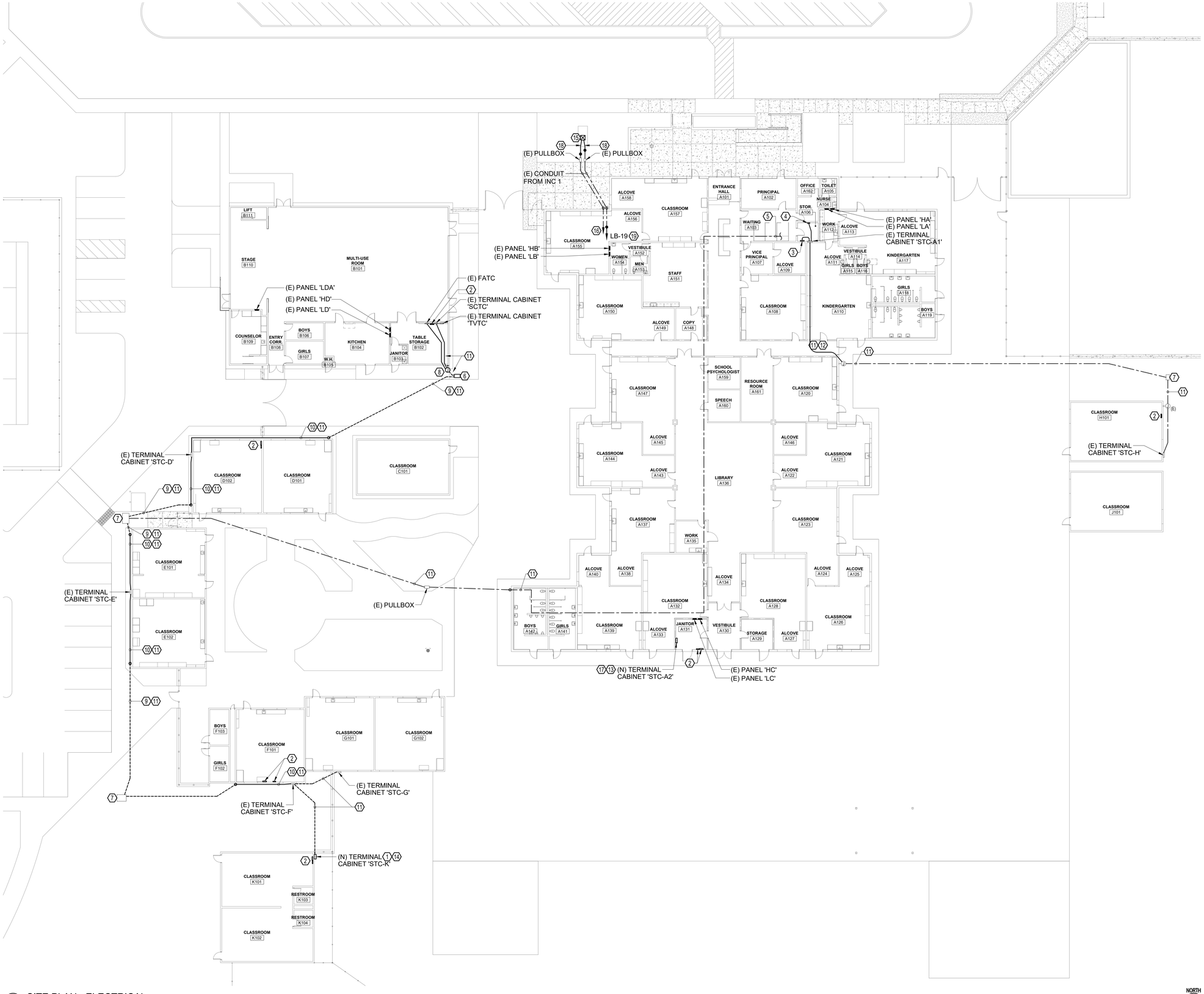

1-2 SITE PLAN - ELECTRICAL
SCALE: 1/16" = 1'-0"

SHEET NOTES

1. CONDUIT PATH SHOWN ARE PROPOSED PATH ONLY. CONTRACTOR SHALL FIELD VERIFY THE CONDUIT PATH.

NUMBERED NOTES

1. SIGNAL TERMINAL CABINET, SEE ENLARGED PLANS.
2. FIRE ALARM VOICE EVAC BOOSTER PANEL AND FIRE ALARM POWER SUPPLY, SEE ENLARGED PLANS.
3. FIRE ALARM CONTROL PANEL (FACP-A), SEE ENLARGED PLAN.
4. INTRUSION ALARM CONTROL PANEL (IACP-A), SEE ENLARGED PLAN.
5. EXISTING CONDUIT ON ROOF. EXTEND CONDUIT TO NEW FIRE ALARM AND INTRUSION ALARM PANEL VIA STC-A1. SEE RISER DIAGRAM.
6. NEW N36 PULLBOX.
7. EXISTING PULLBOX.
8. PROVIDE A NEMA 3R JUNCTION BOX HIGH ON BUILDING EXTERIOR. VERIFY RISER/BOX LOCATION WITH THE ARCHITECT.
9. SAWCUT AND PATCH AS REQUIRED.
10. SURFACE MOUNT CONDUIT BELOW WINDOW AND AC UNIT.
11. REFER TO INTRUSION AND FIRE ALARM RISER DIAGRAM ON SHEET E3.1.1 FOR CONDUIT AND WIRING REQUIREMENT.
12. TO FIRE ALARM CONTROL PANEL (FACP-A) AND INTRUSION ALARM CONTROL PANEL (IACP-A) VIA STC-A1.
13. NEW SIGNAL TERMINAL CABINET WITH SIDE HINGE COVER AND LOCKING MECHANISM, TYPE 1, 24"WX36"HX8"D. PROVIDE PLYWOOD BACKBOARD INSIDE OF CABINET.
14. NEW SIGNAL TERMINAL CABINET WITH SIDE HINGE COVER AND LOCKING MECHANISM, TYPE 3R, 24"WX24"HX10"D. PROVIDE PLYWOOD BACKBOARD INSIDE OF CABINET.
15. MARQUEE SIGN, BY OTHER. ELECTRICAL AND SIGNAL REQUIREMENT TO BE VERIFIED WHEN CUTSHEET IS PROVIDED. PROVIDE LOCAL WEATHERPROOF DISCONNECT SWITCH IF THE SIGN IS NOT EQUIPPED WITH ONE.
16. PULL IN 2D CABLE THROUGH EXISTING CONDUIT TO IDF, PROVIDED IN INCREMENT 1. VERIFY EXACT REQUIREMENT WITH THE PROVIDED EQUIPMENT.
17. ROUTE (1) 1.5" CONDUIT TO 'STC-A1'.
18. EXTEND FROM EXISTING CONDUIT STUB TO MARQUEE SIGN.
19. EXTEND FROM EXISTING CONDUIT STUB AND ROUTE TO THE PANEL INDICATED. PULL IN (2) #12 AND (1) #12 GROUND.

Know what's below. Call before you dig.

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12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2
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TRACY, CA

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SITE PLAN - ELECTRICAL

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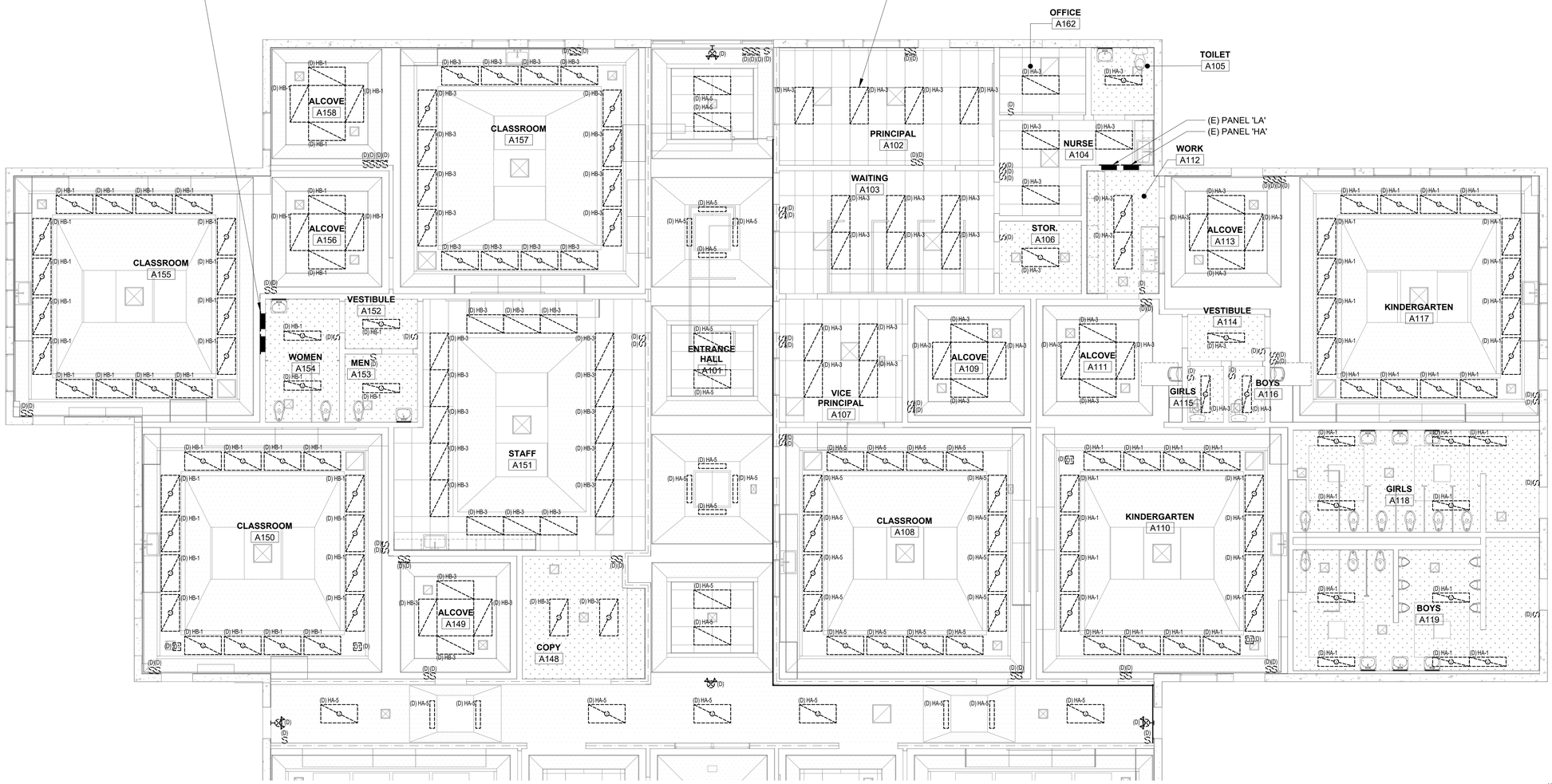
TYPICAL UNLESS OTHERWISE NOTED - EXISTING DEVICES SHOWN SOLID ARE EXISTING TO REMAIN.

TYPICAL UNLESS OTHERWISE NOTED - DEVICES SHOWN DASHED SHALL BE DEMOLISHED. REMOVE ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS. MAINTAIN CIRCUIT CONTINUITY TO DEVICES THAT REMAIN.



1-2 BLDG A FLOOR PLAN - DEMOLITION LIGHTING

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

NORTH

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.

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REGISTERED PROFESSIONAL ENGINEER
TIM BRIND DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING

1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

Project Number J451 Contact Thien

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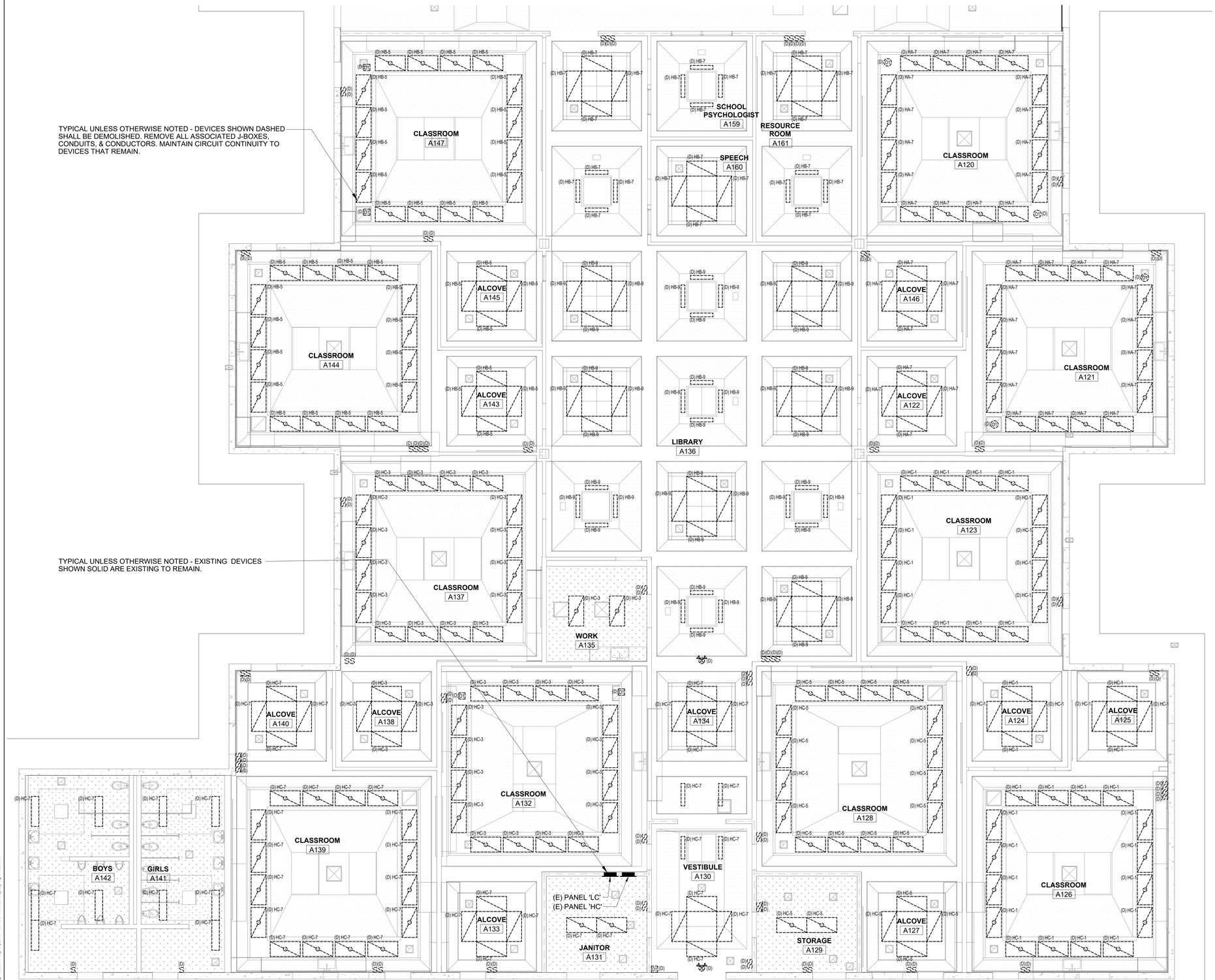
BLDG A FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.1.1-2



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

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.

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REGISTERED PROFESSIONAL ENGINEER
TIMOTHY DONOVAN
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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TRACY UNIFIED SCHOOL DISTRICT
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BLDG A FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)

INCREMENT #2

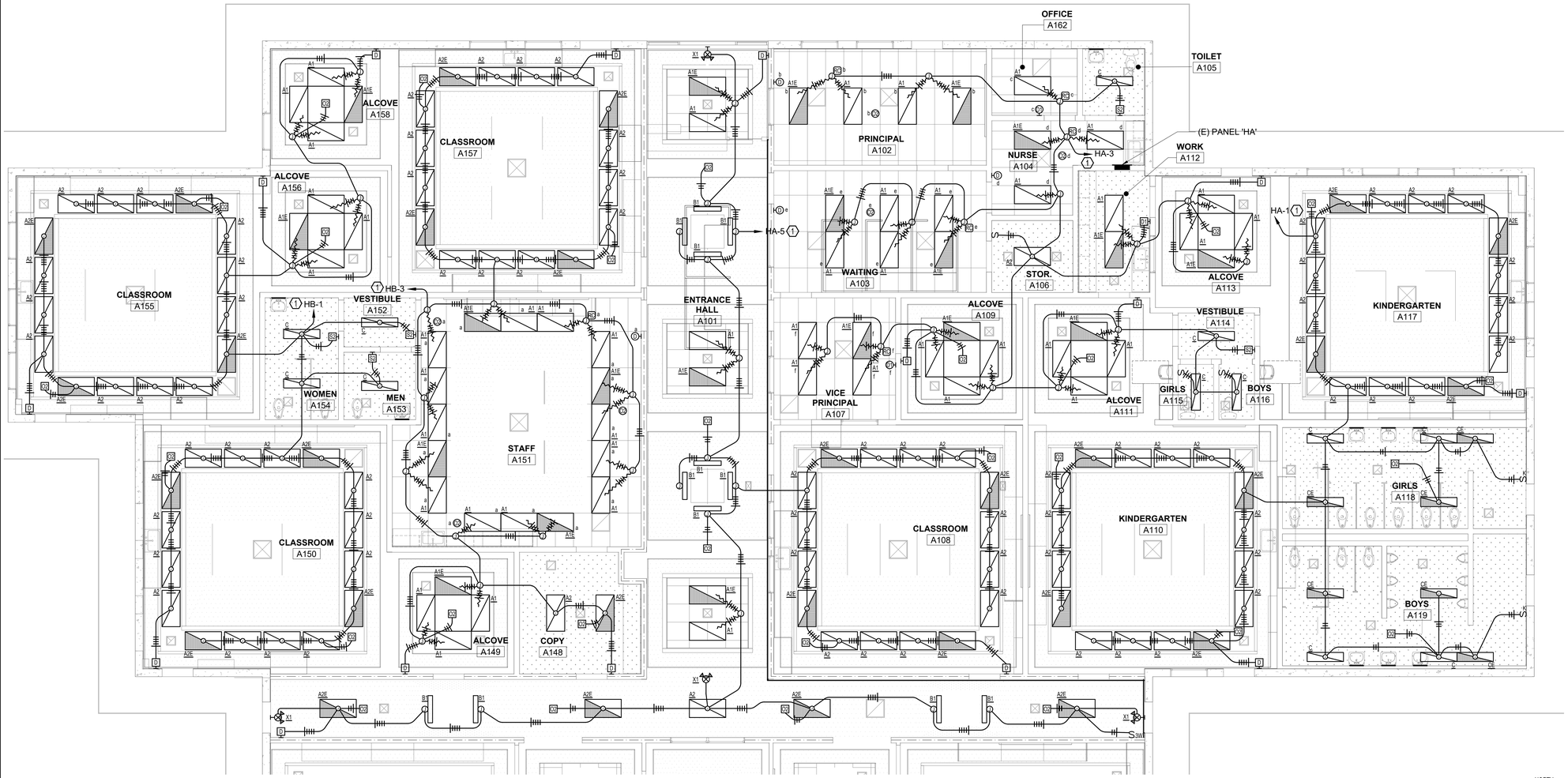
PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.1.2-2

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.
2. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
3. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR.
4. PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY LIGHTS AND EXIT LIGHTS EQUIPPED WITH BATTERY BACKUP.
5. REFER TO LIGHTING WIRING DIAGRAMS FOR ADDITIONAL LOW VOLTAGE CONTROL WIRING REQUIRED. COORDINATE LIGHTING CONTROL WIRING REQUIREMENT WITH THE APPROVED LIGHTING CONTROL PRODUCT / MANUFACTURER, PROVIDE SHOP DRAWING.
6. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.
7. THE INDOOR LIGHTING SYSTEM ALTERATION IS TO COMPLY WITH CALIFORNIA ENERGY CODE 141.0(B)2III. DAYLIGHTING CONTROL AND DEMAND RESPONSIVE CONTROL ARE NOT REQUIRED PER TABLE 141.0-F.

NUMBERED NOTES

1. RECONNECT TO (E) LIGHTING CIRCUIT MADE AVAILABLE DURING THE DEMOLITION PHASE. OVERALL NET LOAD REDUCTION ON PANEL.



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

NORTH

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1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451 Contact Thien

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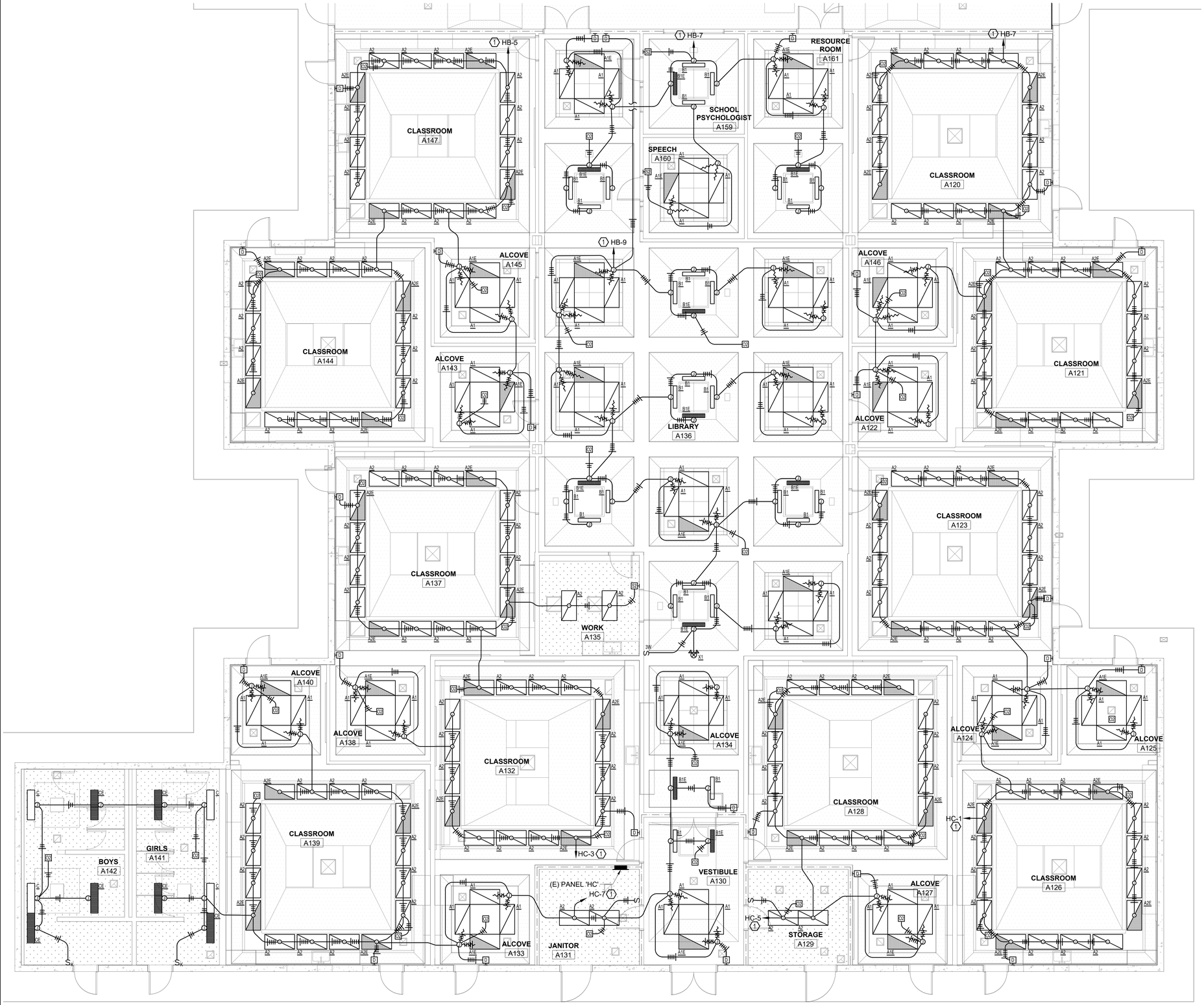
BLDG A FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)

INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/22
SHEET	E2.1.3-2



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

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.
2. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
3. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR.
4. PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY LIGHTS AND EXIT LIGHTS EQUIPPED WITH BATTERY BACKUP.
5. REFER TO LIGHTING WIRING DIAGRAMS FOR ADDITIONAL LOW VOLTAGE CONTROL WIRING REQUIRED. COORDINATE LIGHTING CONTROL WIRING REQUIREMENT WITH THE APPROVED LIGHTING CONTROL PRODUCT / MANUFACTURER, PROVIDE SHOP DRAWING.
6. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.
7. THE INDOOR LIGHTING SYSTEM ALTERATION IS TO COMPLY WITH CALIFORNIA ENERGY CODE 141.0(B)2III. DAYLIGHTING CONTROL AND DEMAND RESPONSIVE CONTROL ARE NOT REQUIRED PER TABLE 141.0-F.

NUMBERED NOTES

1. RECONNECT TO (E) LIGHTING CIRCUIT MADE AVAILABLE DURING THE DEMOLITION PHASE. OVERALL NET LOAD REDUCTION ON PANEL.

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REGISTERED PROFESSIONAL ENGINEER
TIMOTHY DONOVAN
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
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Contact Thien

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BLDG A FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)

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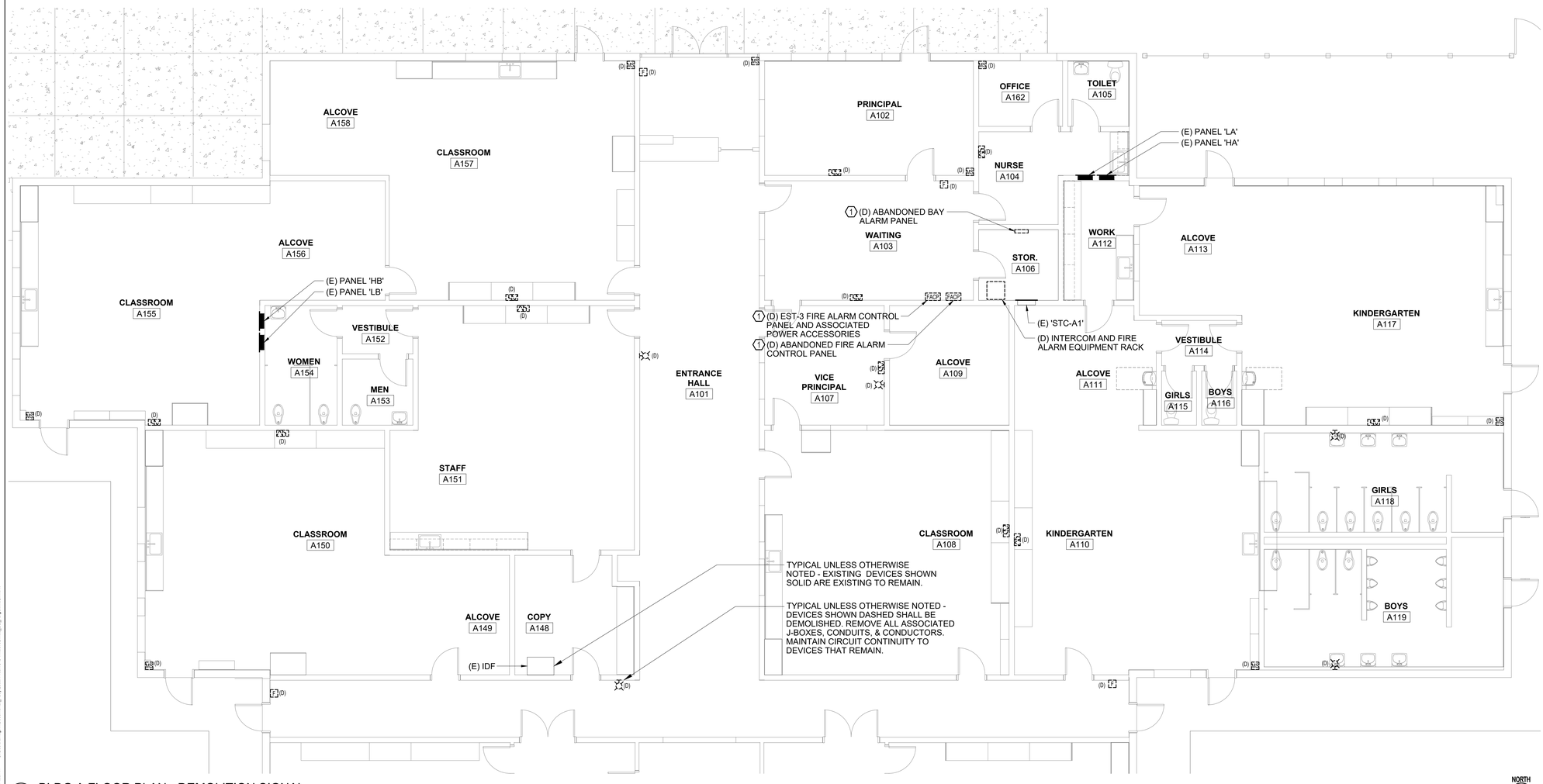
PROJECT NO.	1515
DATE:	11/15/22
SHEET	E2.1.4-2

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.



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

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12/19/2022

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1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

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BLDG A FLOOR PLAN - DEMOLITION SIGNAL

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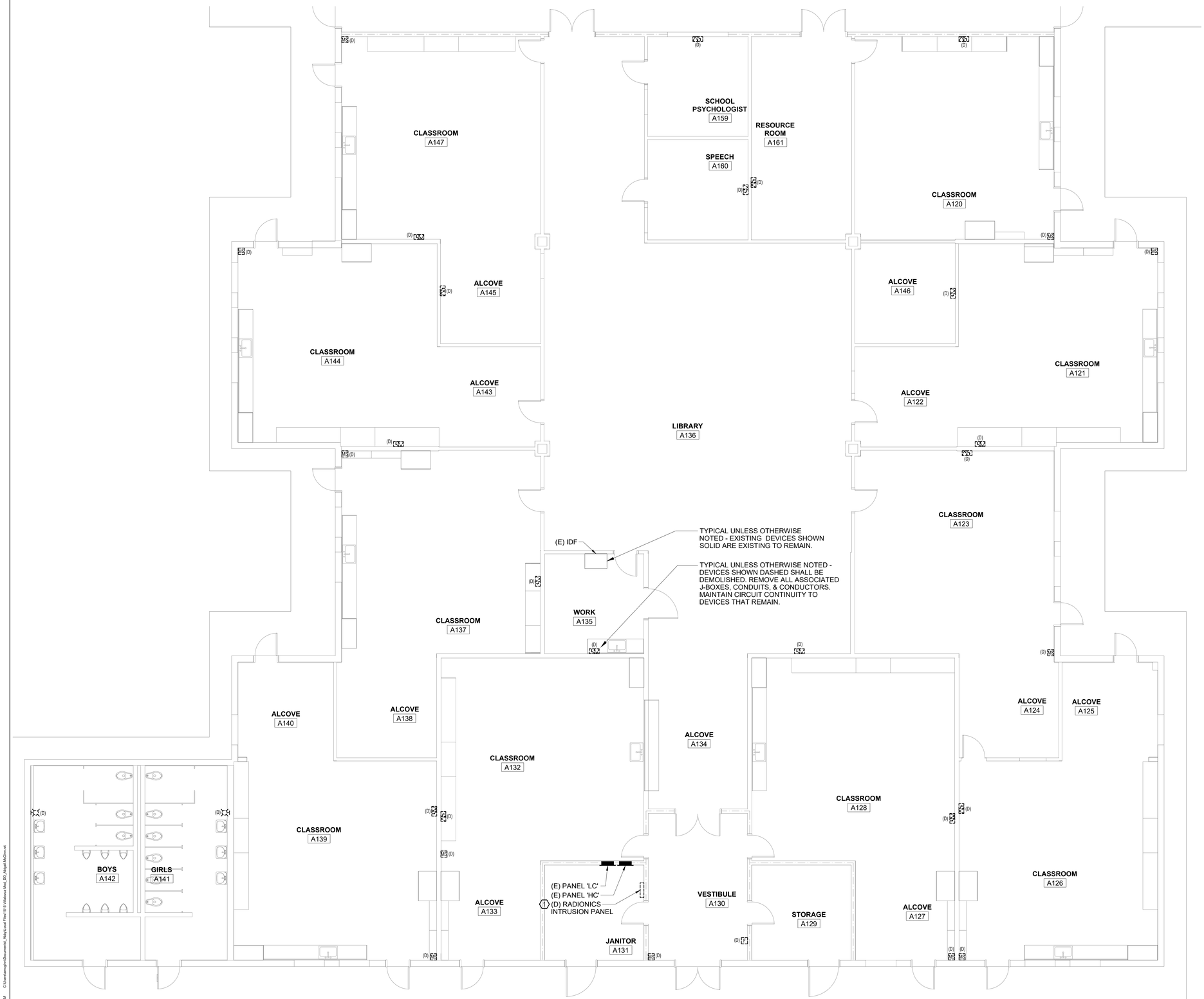
SHEET	E2.1.5-2



1-2 BLDG A FLOOR PLAN - DEMOLITION 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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REGISTERED PROFESSIONAL ENGINEER
TIM SANKO DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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BLDG A FLOOR PLAN - DEMOLITION SIGNAL

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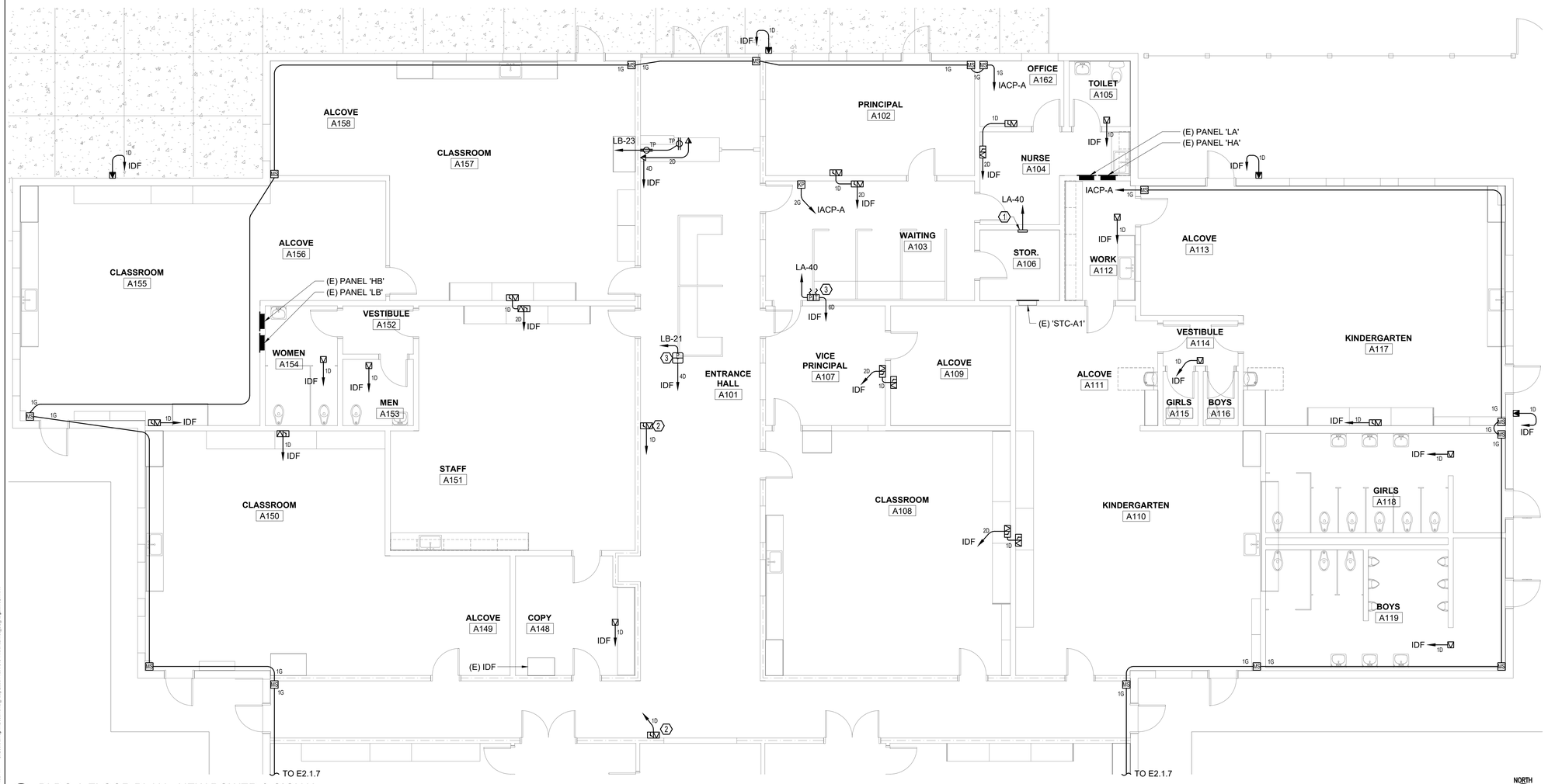

1-2 BLDG A FLOOR PLAN - NEW POWER & SIGNAL
SCALE: 3/16" = 1'-0"

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. INTRUSION ALARM CONTROL PANEL 'IACP-A', 120V.
2. WALL MOUNTED, DOUBLE-SIDED, CLOCK-SPEAKER.
3. POWER/DATA POLE FOR MODULAR FURNITURE, BY OTHERS. COORDINATE EXACT LOCATION WITH ARCHITECT.

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REGISTERED PROFESSIONAL ENGINEER
TIM SHINO DONG LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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BLDG A FLOOR PLAN - NEW POWER & SIGNAL

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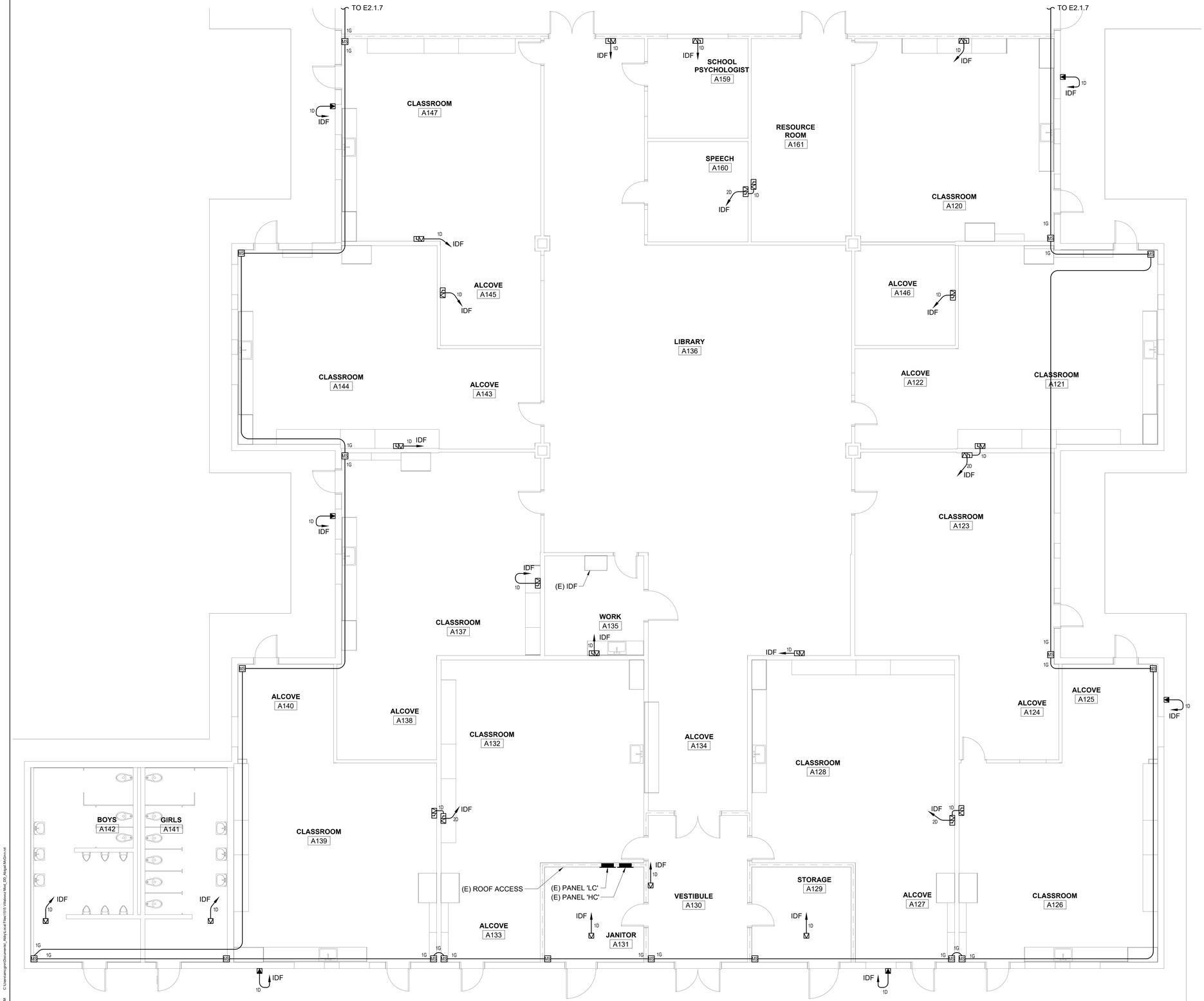
DATE: 11/15/22
SHEET E2.1.7-2



1-2 BLDG A FLOOR PLAN - NEW 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.

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REGISTERED PROFESSIONAL ENGINEER
TIM SANKO DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING

1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

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BLDG A FLOOR PLAN - NEW SIGNAL

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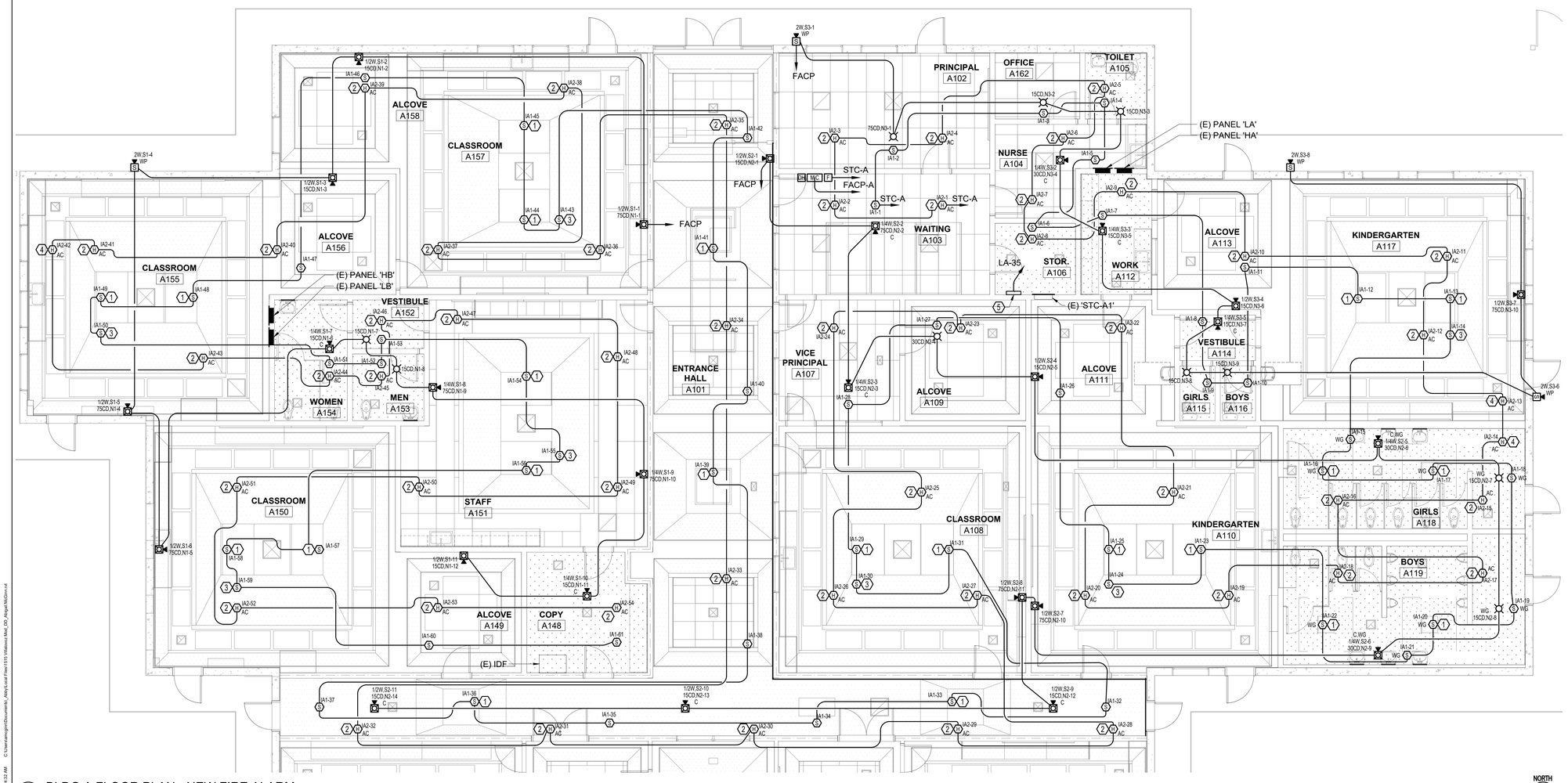

1-2 BLDG A FLOOR PLAN - NEW FIRE ALARM
SCALE: 3/16" = 1'-0"

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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REGISTERED PROFESSIONAL ENGINEER
TIM SAND DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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BLDG A FLOOR PLAN - NEW FIRE ALARM

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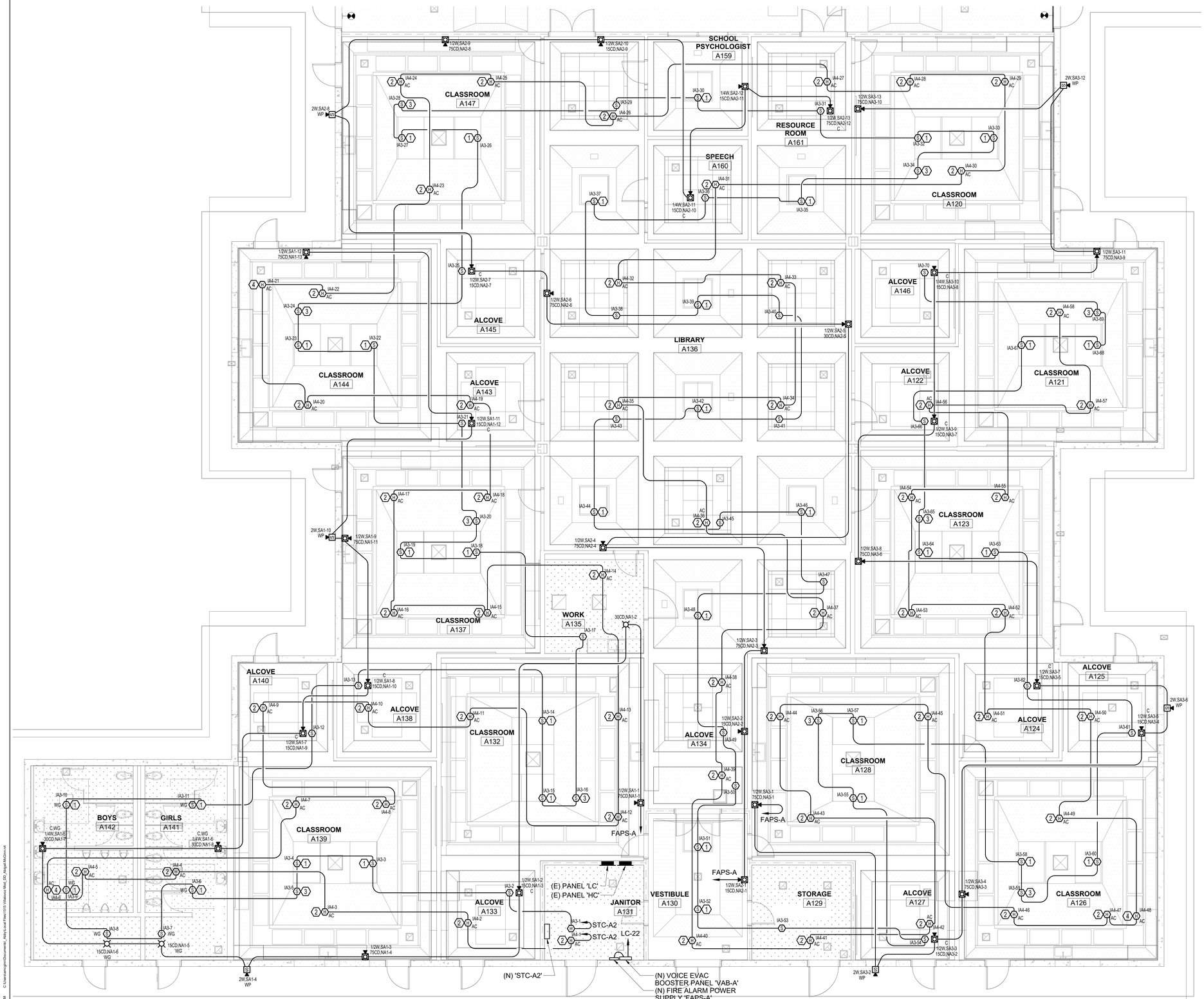

1-2 BLDG A FLOOR PLAN - NEW FIRE ALARM
SCALE: 3/16" = 1'-0"

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.

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REGISTERED PROFESSIONAL ENGINEER
TIM SAVIO DONATI
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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BLDG A FLOOR PLAN - NEW FIRE ALARM

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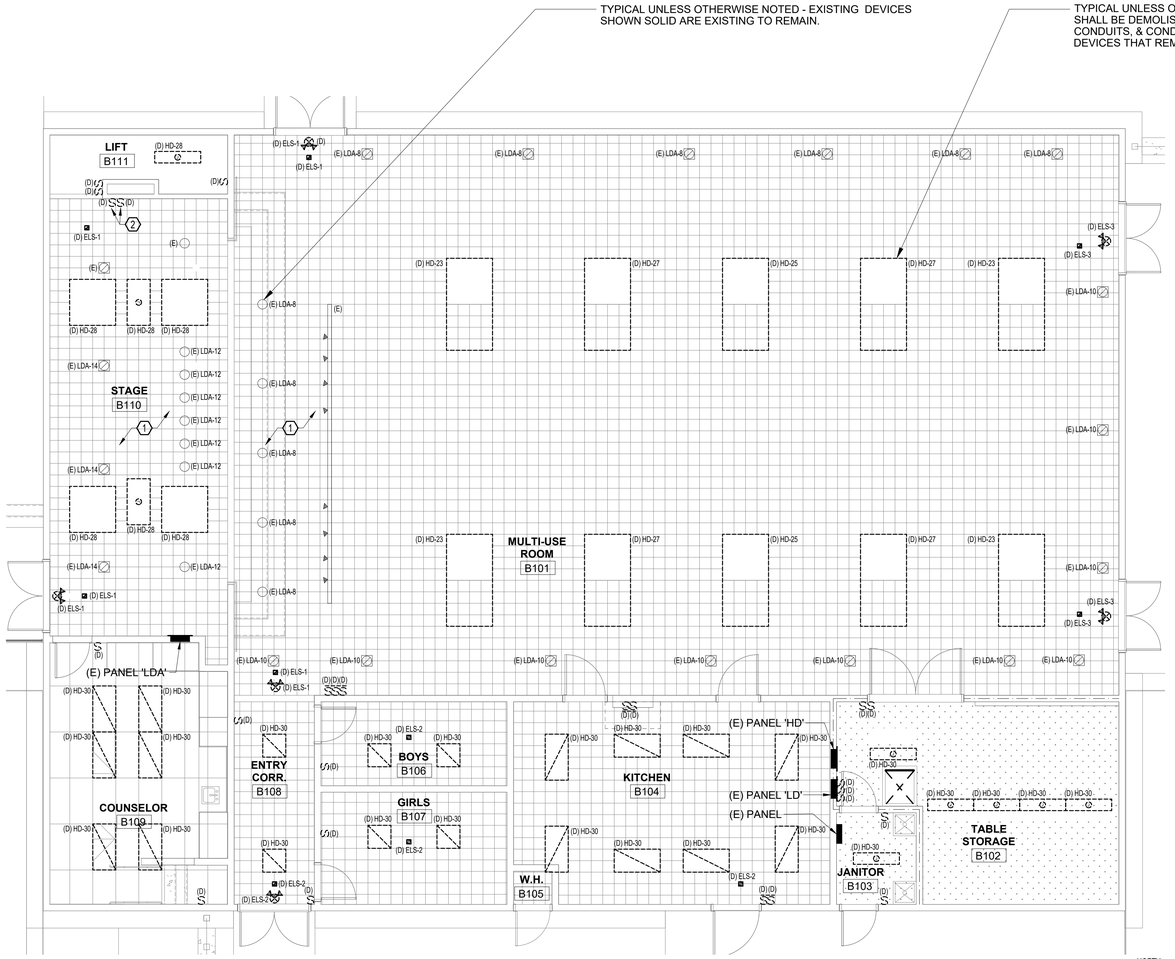
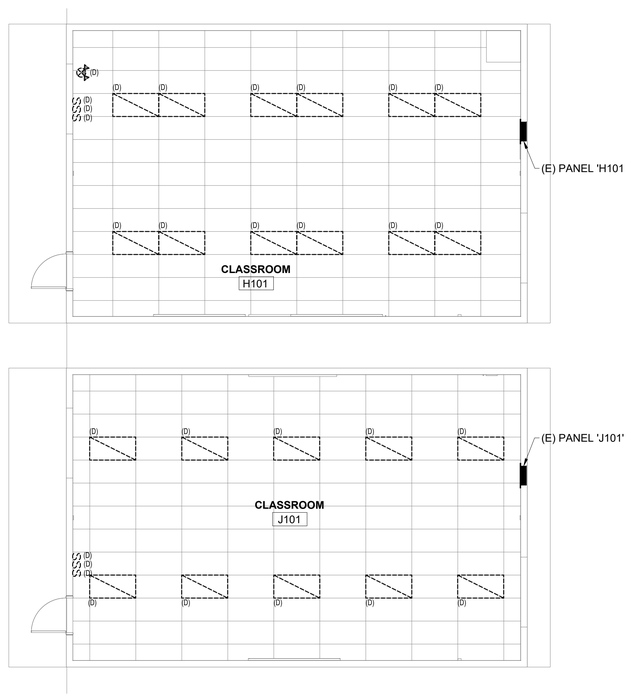


1-2 BLDG B FLOOR PLAN - DEMOLITION LIGHTING
SCALE: 3/16" = 1'-0"



2-2 BLDG H & J FLOOR PLAN - DEMOLITION LIGHTING
SCALE: 3/16" = 1'-0"

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.

NUMBERED NOTES

1. STAGE LIGHTING IN THIS AREA SHALL REMAIN AS EXISTING. ALL ASSOCIATED SWITCHES AND CONTROLS FOR THE STAGE LIGHTING SHALL REMAIN IN PLACE AND UNMODIFIED DURING DEMOLITION.
2. CONFIRM IF (E) SWITCH CONTROLS STAGE LIGHTING. IF SO, LEAVE SWITCH IN PLACE. IF NOT, DEMOLISH SWITCH AS DENOTED.

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REGISTERED PROFESSIONAL ENGINEER
TIM BRIND DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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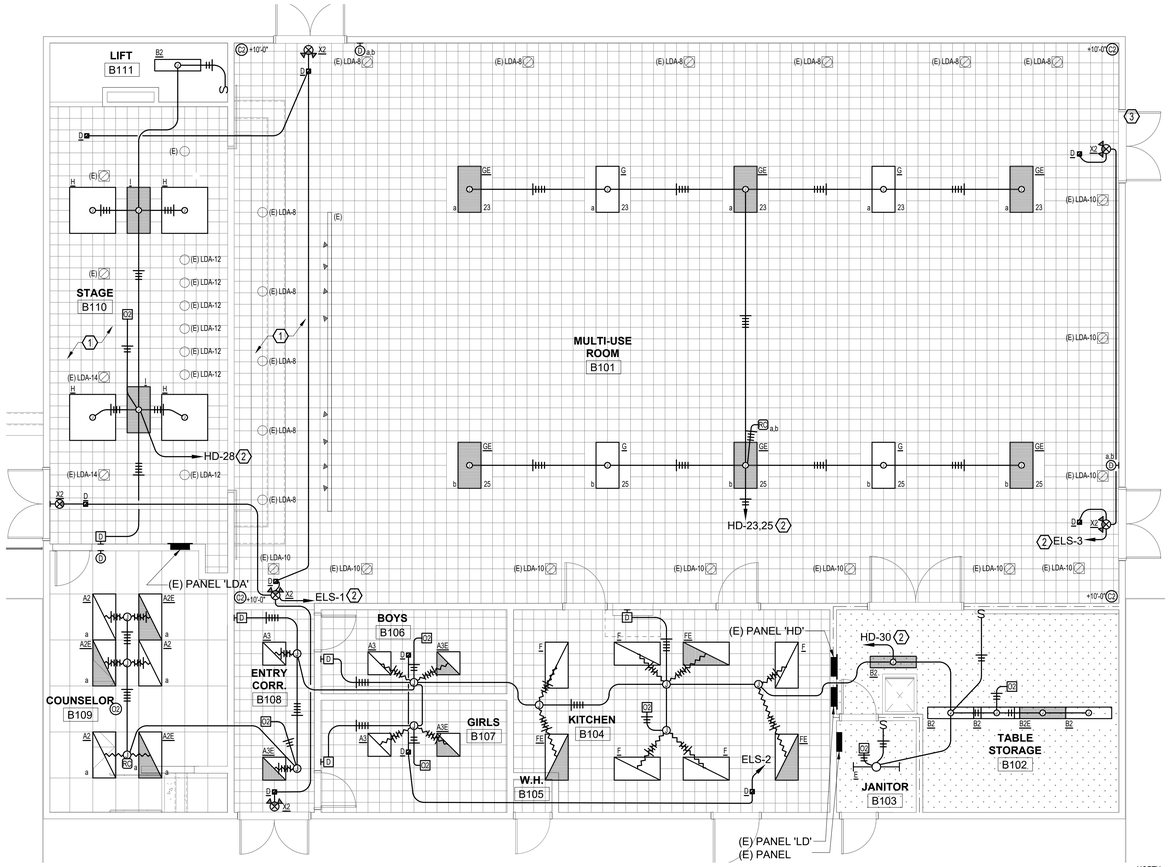
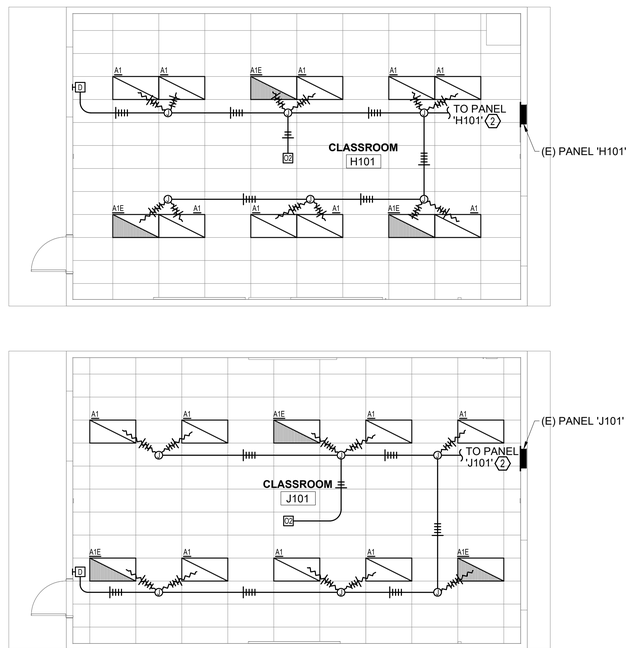
BLDG B, H, & J FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.2.1-2



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



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

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.
2. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
3. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR.
4. PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY LIGHTS AND EXIT LIGHTS EQUIPPED WITH BATTERY BACKUP.
5. REFER TO LIGHTING WIRING DIAGRAMS FOR ADDITIONAL LOW VOLTAGE CONTROL WIRING REQUIRED. COORDINATE LIGHTING CONTROL WIRING REQUIREMENT WITH THE APPROVED LIGHTING CONTROL PRODUCT / MANUFACTURER, PROVIDE SHOP DRAWING.
6. THE INDOOR LIGHTING SYSTEM ALTERATION IS TO COMPLY WITH CALIFORNIA ENERGY CODE 141.0(B)2III. DAYLIGHTING CONTROL AND DEMAND RESPONSIVE CONTROL ARE NOT REQUIRED PER TABLE 141.0-F.
7. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

NUMBERED NOTES

1. STAGE LIGHTING IN THIS AREA SHALL REMAIN AS EXISTING. ALL ASSOCIATED SWITCHES AND CONTROLS FOR THE STAGE LIGHTING SHALL REMAIN IN PLACE AND UNMODIFIED DURING DEMOLITION.
2. RECONNECT TO (E) LIGHTING CIRCUIT MADE AVAILABLE DURING THE DEMOLITION PHASE. OVERALL NET LOAD REDUCTION ON PANEL.

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REGISTERED PROFESSIONAL ENGINEER
TIM BRIND DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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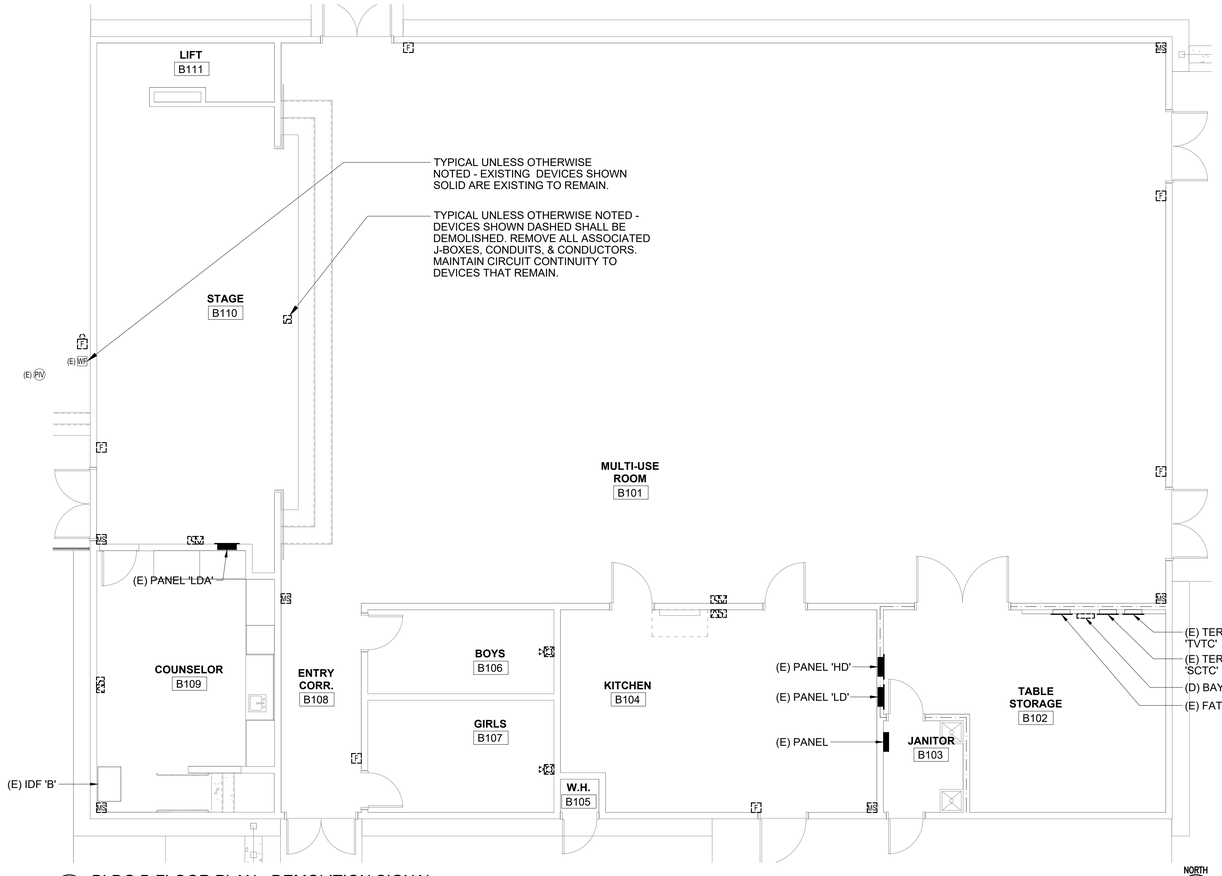
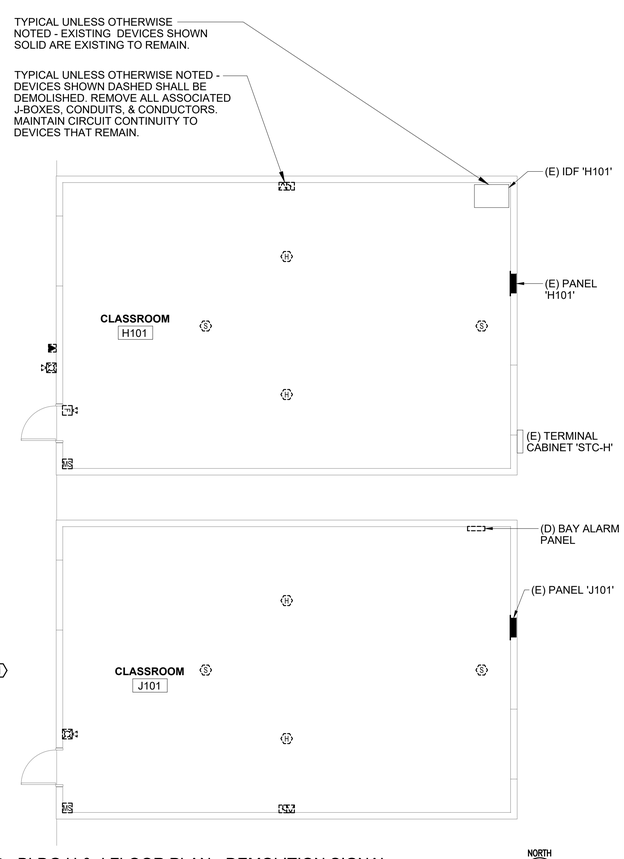
BLDG B, J, & H FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.2.2-2



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



2-2 BLDG H & J FLOOR PLAN - DEMOLITION 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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REGISTERED PROFESSIONAL ENGINEER
TIM BRIND DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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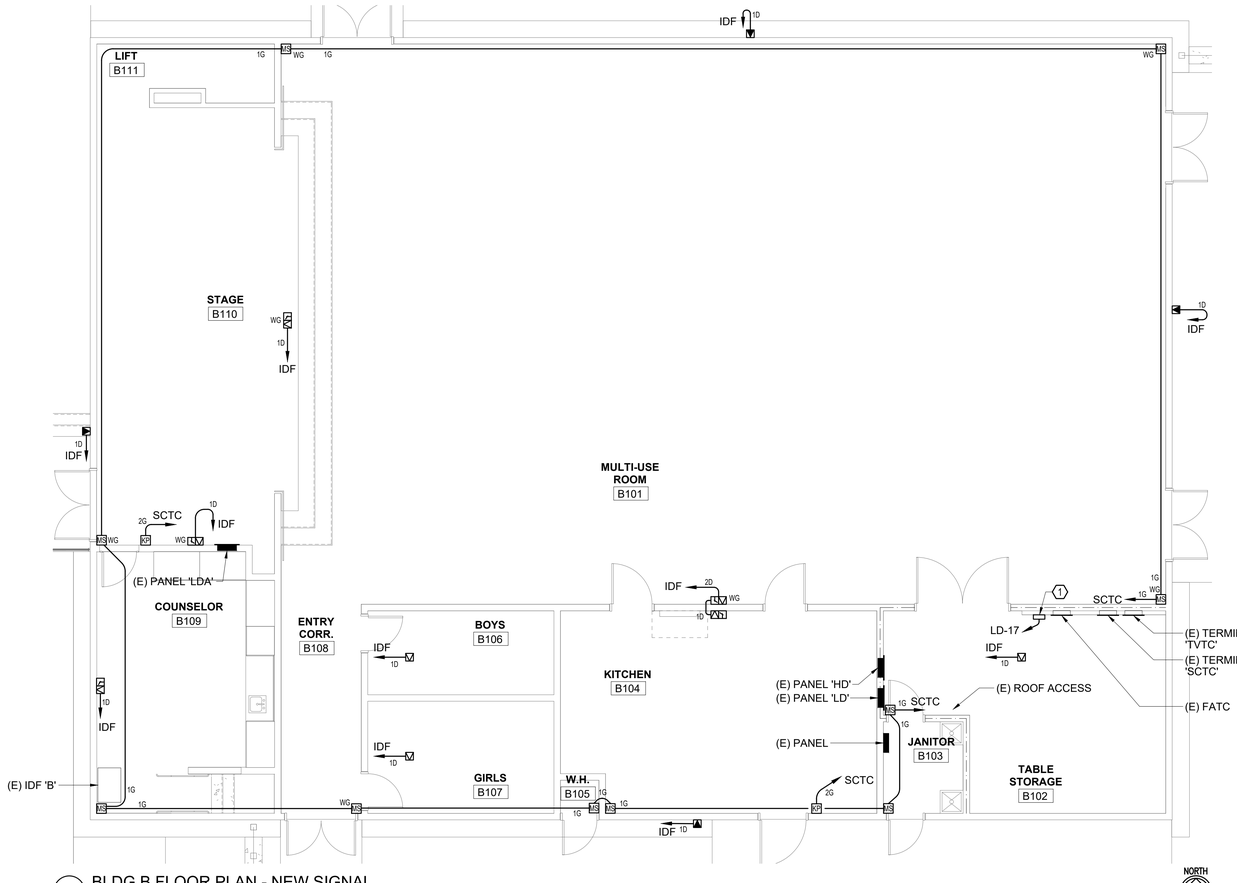
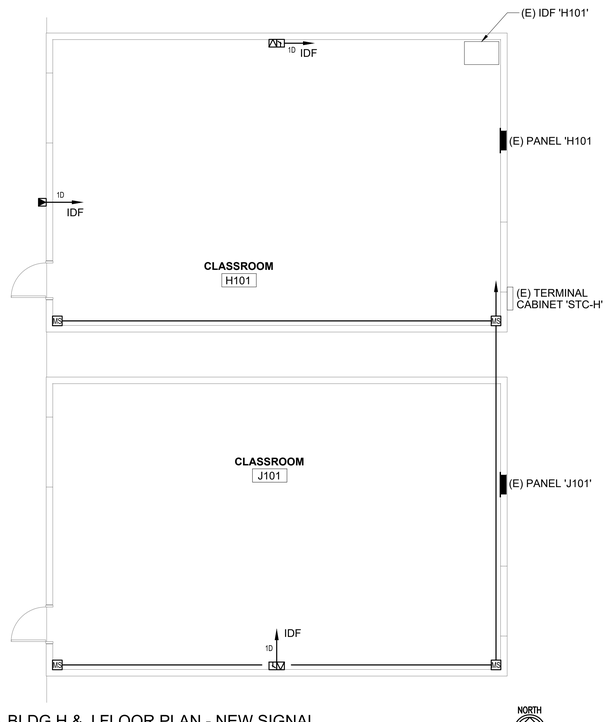
BLDG B, H, & J FLOOR PLAN - DEMOLITION SIGNAL

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.2.3-2



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



2-2 BLDG H & J FLOOR PLAN - NEW 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-B', 120V, 1.45A. ROUTE 2G TO 'SCTC'.

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REGISTERED PROFESSIONAL ENGINEER
TIM SHINO DONG LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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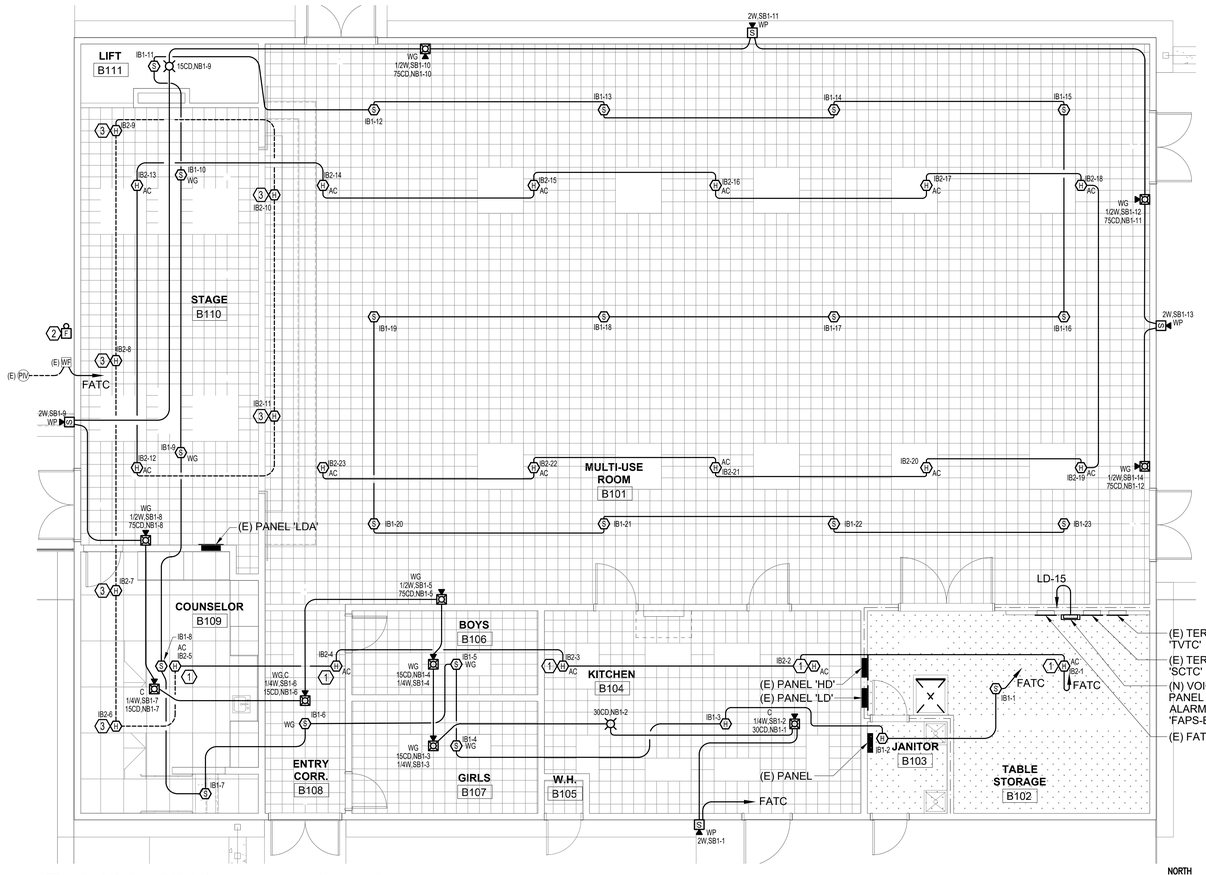
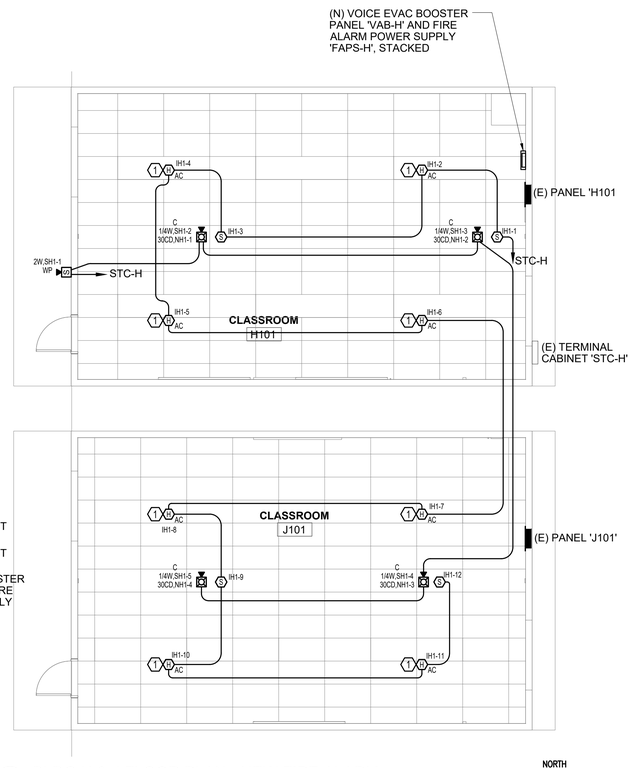
BLDG B, H, & J FLOOR PLAN - NEW SIGNAL

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.2.4-2



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



2-2 BLDG H & J FLOOR PLAN - NEW FIRE ALARM
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. MOUNT ABOVE CEILING HEAT DETECTOR AT BOTTOM OF JOIST.
2. NEW FIRE SPRINKLER RISER BELL, 120V, 0.085A. RECONNECT TO EXISTING BELL CIRCUIT FED FROM PANEL LOCATED IN JANITOR B103. ROUTE POWER FOR BELL THROUGH FLOW SWITCH SO THAT THE BELL WILL SOUND WHEN THE SWITCH IS ACTIVATED.
3. BELOW FLOOR HEAT DETECTOR, MOUNT AT BOTTOM OF JOIST.

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REGISTERED PROFESSIONAL ENGINEER
TIM BRIND DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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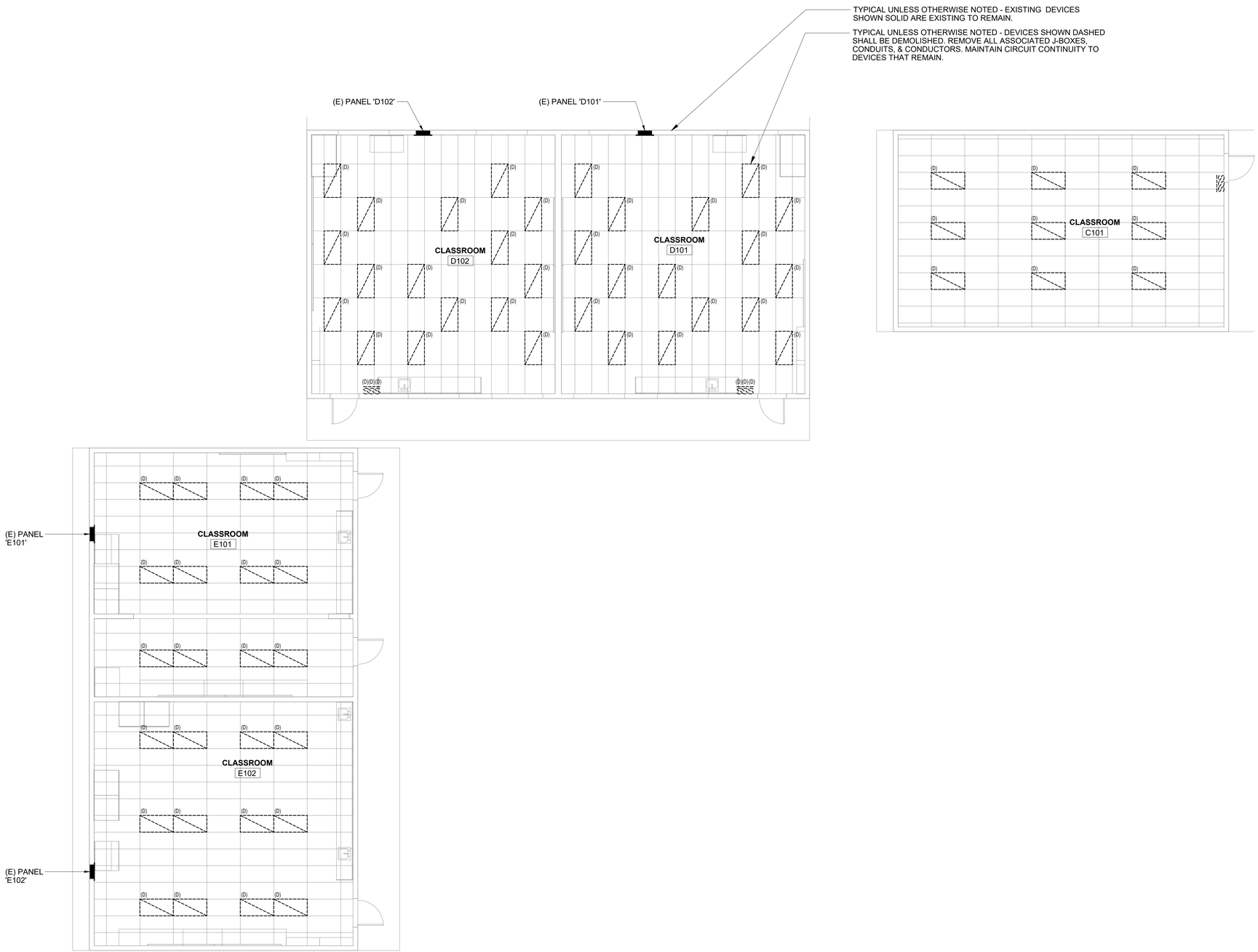
BLDG B, H, & J FLOOR PLAN - NEW FIRE ALARM

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.2.5-2



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

NORTH

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.

NUMBERED NOTES

1 x

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12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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BLDG C, D, & E FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)

INCREMENT #2

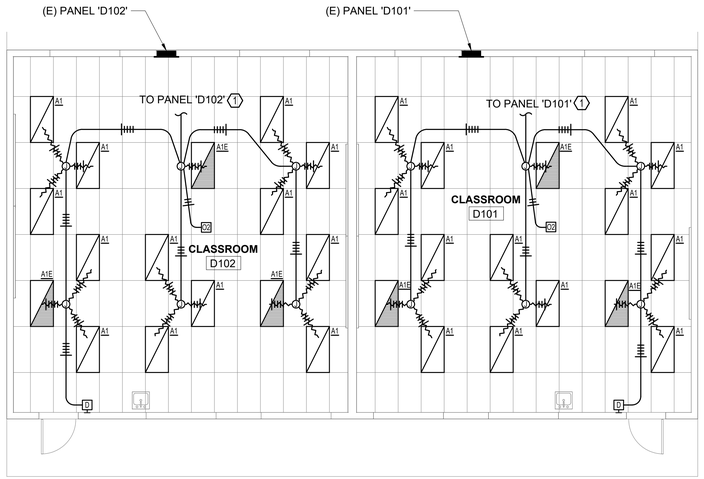
PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.3.1-2

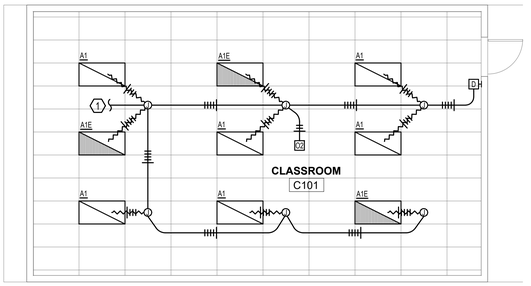
SHEET NOTES

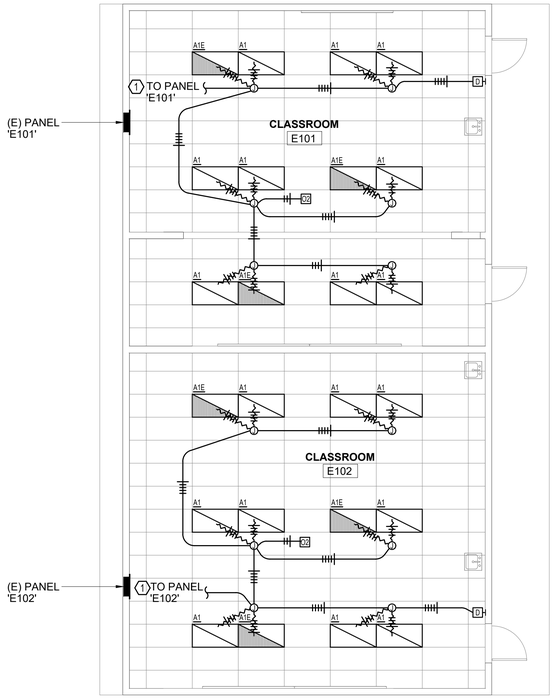
1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.
2. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
3. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR.
4. PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY LIGHTS AND EXIT LIGHTS EQUIPPED WITH BATTERY BACKUP.
5. REFER TO LIGHTING WIRING DIAGRAMS FOR ADDITIONAL LOW VOLTAGE CONTROL WIRING REQUIRED. COORDINATE LIGHTING CONTROL WIRING REQUIREMENT WITH THE APPROVED LIGHTING CONTROL PRODUCT / MANUFACTURER, PROVIDE SHOP DRAWING.
6. THE INDOOR LIGHTING SYSTEM ALTERATION IS TO COMPLY WITH CALIFORNIA ENERGY CODE 141.0(B)2III. DAYLIGHTING CONTROL AND DEMAND RESPONSIVE CONTROL ARE NOT REQUIRED PER TABLE 141.0-F.
7. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

NUMBERED NOTES

(1) RECONNECT TO (E) LIGHTING CIRCUIT MADE AVAILABLE DURING THE DEMOLITION PHASE. OVERALL NET LOAD REDUCTION ON PANEL.







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

NORTH

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12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

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BLDG C, D, & E FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)

INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/22
SHEET	E2.3.2-2

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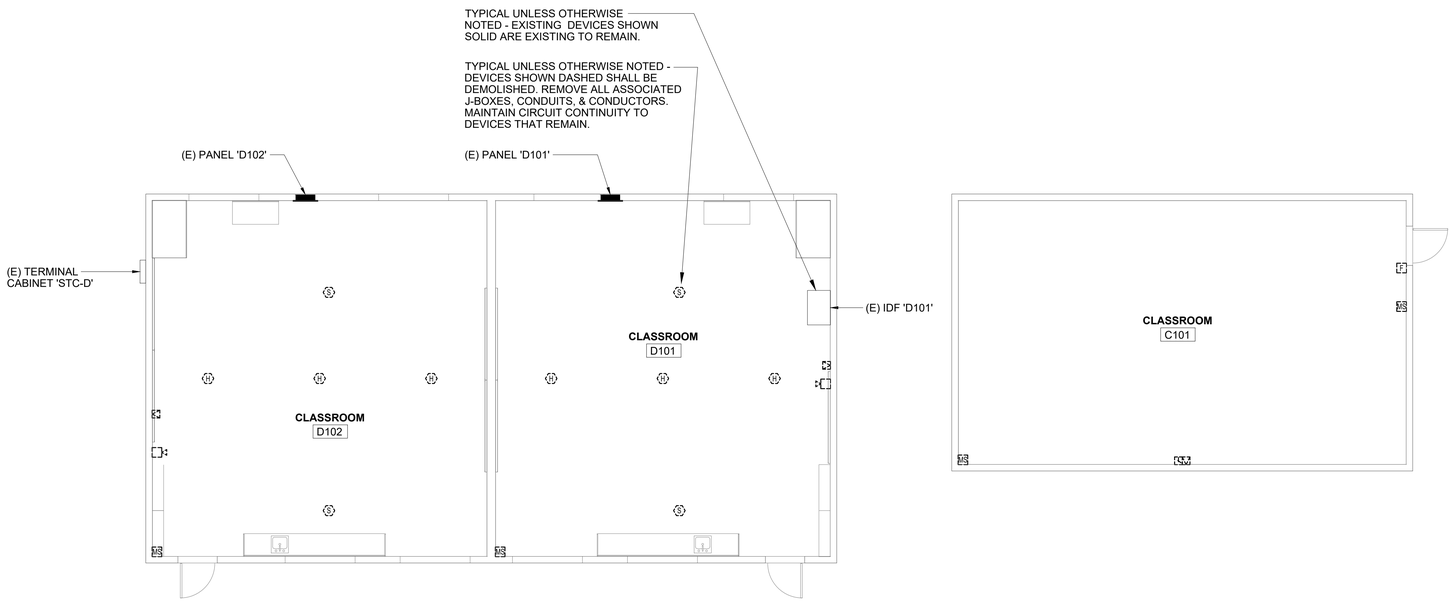

1-2 BLDG C, D, & E FLOOR PLAN - DEMOLITION SIGNAL
SCALE: 3/16" = 1'-0"

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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12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

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TRACY, CA

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BLDG C, D, & E FLOOR PLAN - DEMOLITION SIGNAL

INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/22
SHEET	E2.3.3-2

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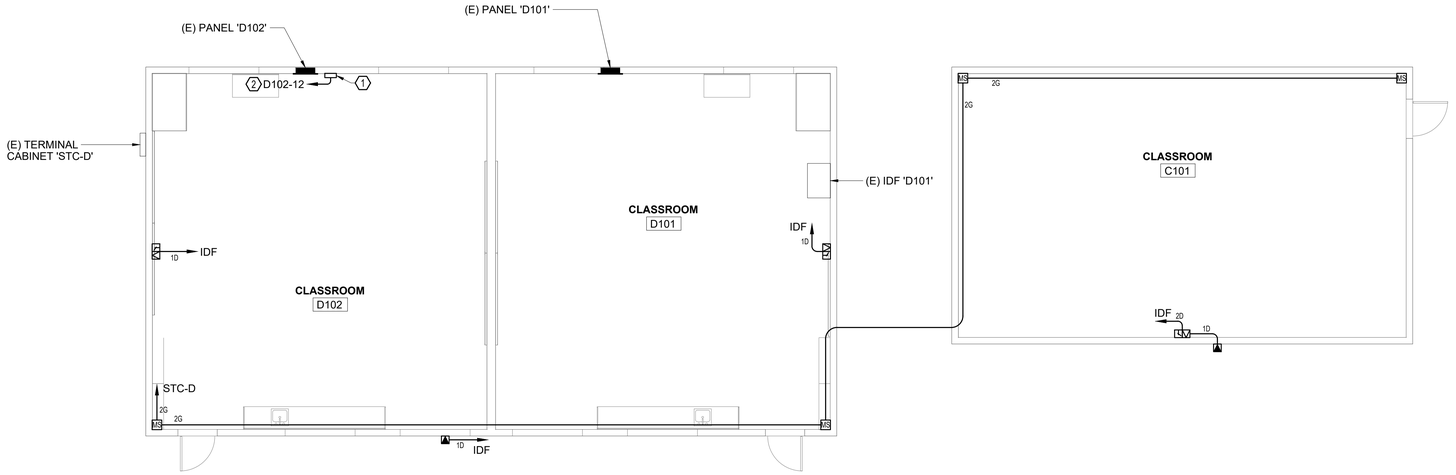

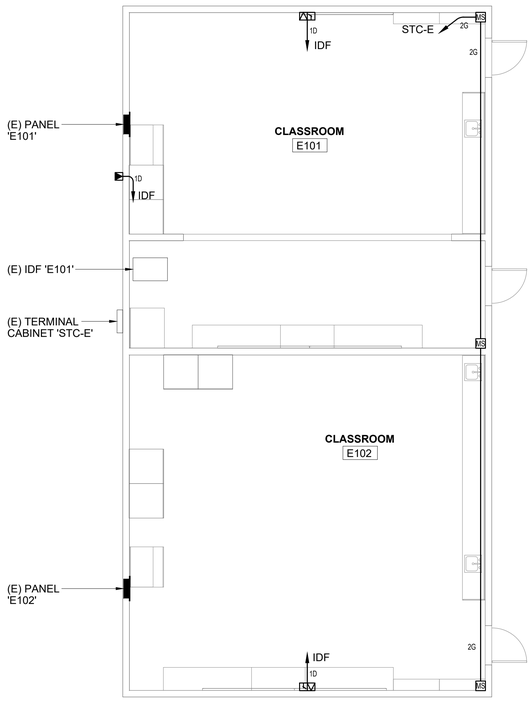

1-2 BLDG C, D, & E FLOOR PLAN - NEW SIGNAL
SCALE: 3/16" = 1'-0"

NORTH

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.

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12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

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

INCREMENT #2

PROJECT NO.	1515
DATE:	11/15/22
SHEET	E2.3.4-2

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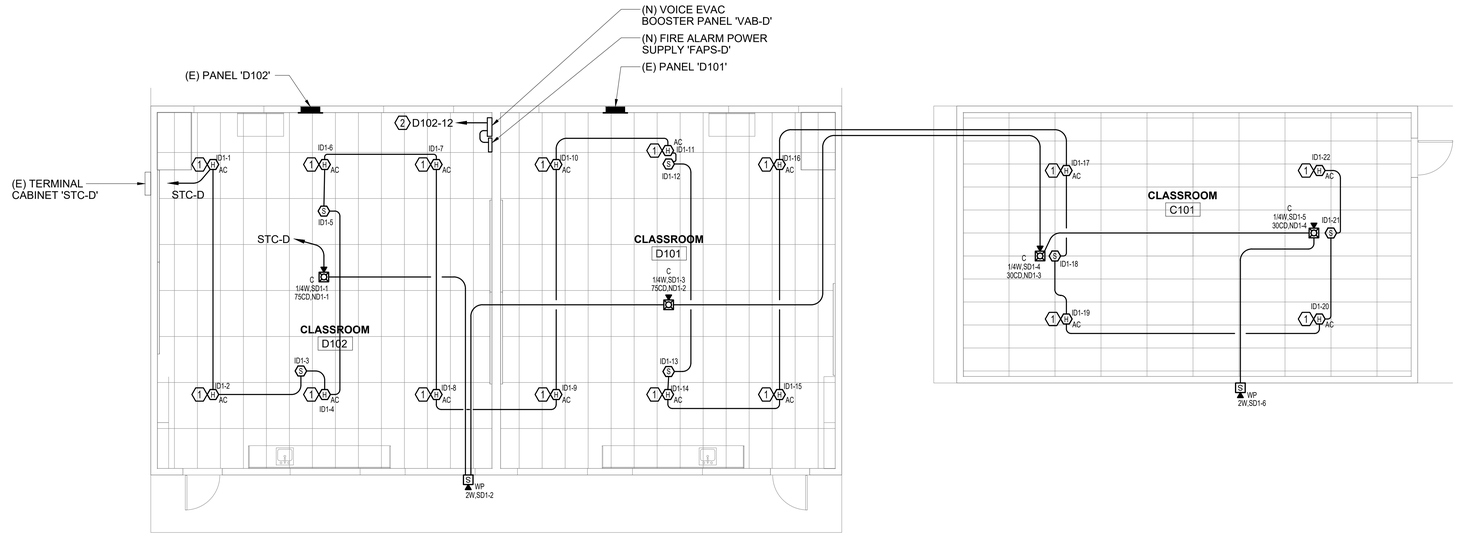

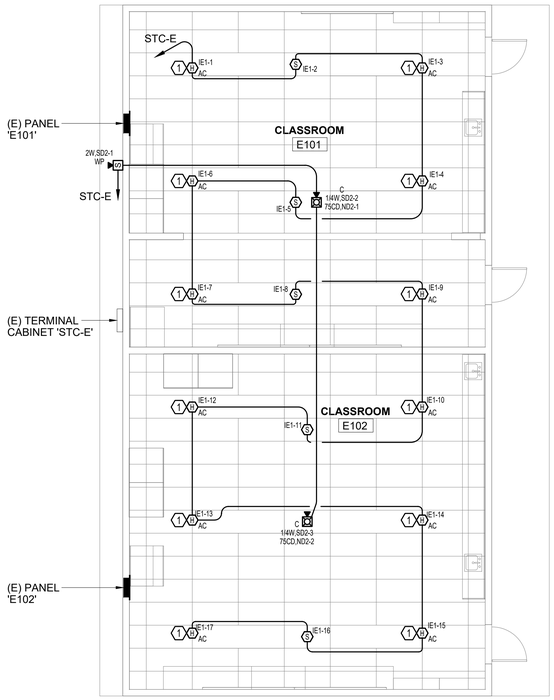

1-2 BLDG C, D, & E FLOOR PLAN - NEW FIRE ALARM
SCALE: 3/16" = 1'-0"

NORTH

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. MOUNT ABOVE CEILING HEAT DETECTOR AT BOTTOM OF JOINT.
2. SEE SHEET E2.3.4 FOR NEW CIRCUIT BREAKER SIZE. FIRE ALARM POWER SUPPLY SHALL BE FED FROM CIRCUIT AS THE INTRUSION POWER SUPPLY.

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12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

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TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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BLDG C, D, & E FLOOR PLAN - NEW FIRE ALARM

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SHEET	E2.3.5-2

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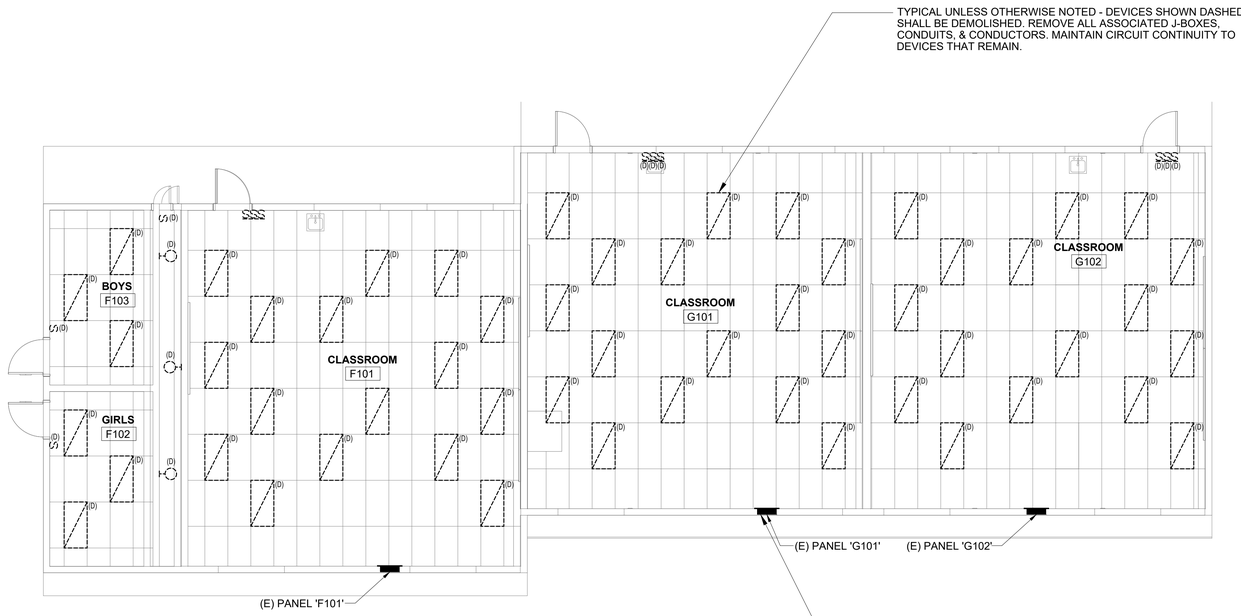

1-2 BLDG F, G, & K FLOOR PLAN - DEMOLITION LIGHTING
SCALE: 3/16" = 1'-0"

SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.

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REGISTERED PROFESSIONAL ENGINEER
TIM DAVID DONATI
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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BLDG F, G, & K FLOOR PLAN - DEMOLITION LIGHTING (ADD ALTERNATE)

INCREMENT #2

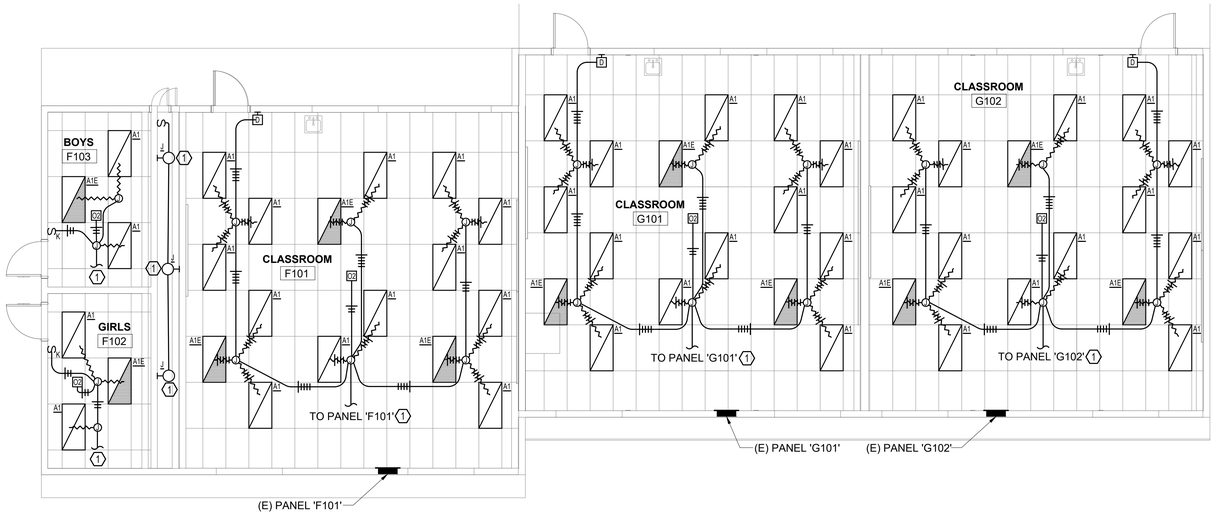
PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.4.1-2

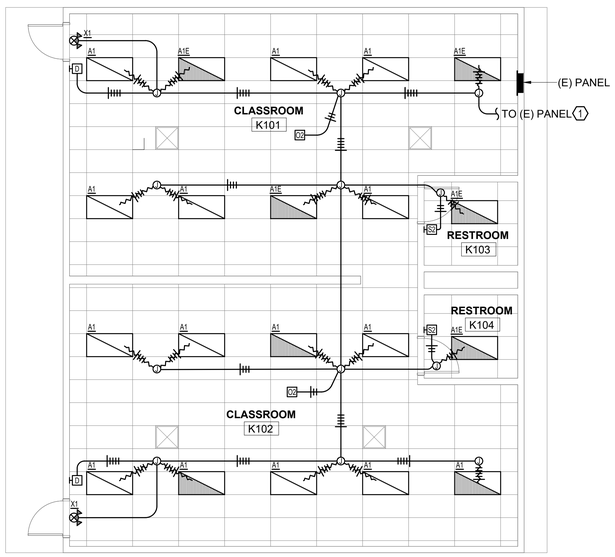
SHEET NOTES

1. LIGHTING MODIFICATIONS SHOWN ON THIS SHEET ARE INCLUDED AS PART OF AN ADD ALTERNATE.
2. UNLESS OTHERWISE NOTED AS EXISTING, ALL DEVICES SHOWN ARE NEW.
3. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR.
4. PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY LIGHTS AND EXIT LIGHTS EQUIPPED WITH BATTERY BACKUP.
5. REFER TO LIGHTING WIRING DIAGRAMS FOR ADDITIONAL LOW VOLTAGE CONTROL WIRING REQUIRED. COORDINATE LIGHTING CONTROL WIRING REQUIREMENT WITH THE APPROVED LIGHTING CONTROL PRODUCT / MANUFACTURER, PROVIDE SHOP DRAWING.
6. THE INDOOR LIGHTING SYSTEM ALTERATION IS TO COMPLY WITH CALIFORNIA ENERGY CODE 141.0(B)2III. DAYLIGHTING CONTROL AND DEMAND RESPONSIVE CONTROL ARE NOT REQUIRED PER TABLE 141.0-F.
7. WALL MOUNTED DEVICES ARE TO BE SURFACE MOUNTED USING WIREMOLD RACEWAY.

NUMBERED NOTES

(1) RECONNECT TO (E) LIGHTING CIRCUIT MADE AVAILABLE DURING THE DEMOLITION PHASE. OVERALL NET LOAD REDUCTION ON PANEL.





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

NORTH

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12/19/2022

EDGE ELECTRICAL CONSULTING

1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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BLDG F, G, & K FLOOR PLAN - NEW LIGHTING (ADD ALTERNATE)

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET
E2.4.2-2

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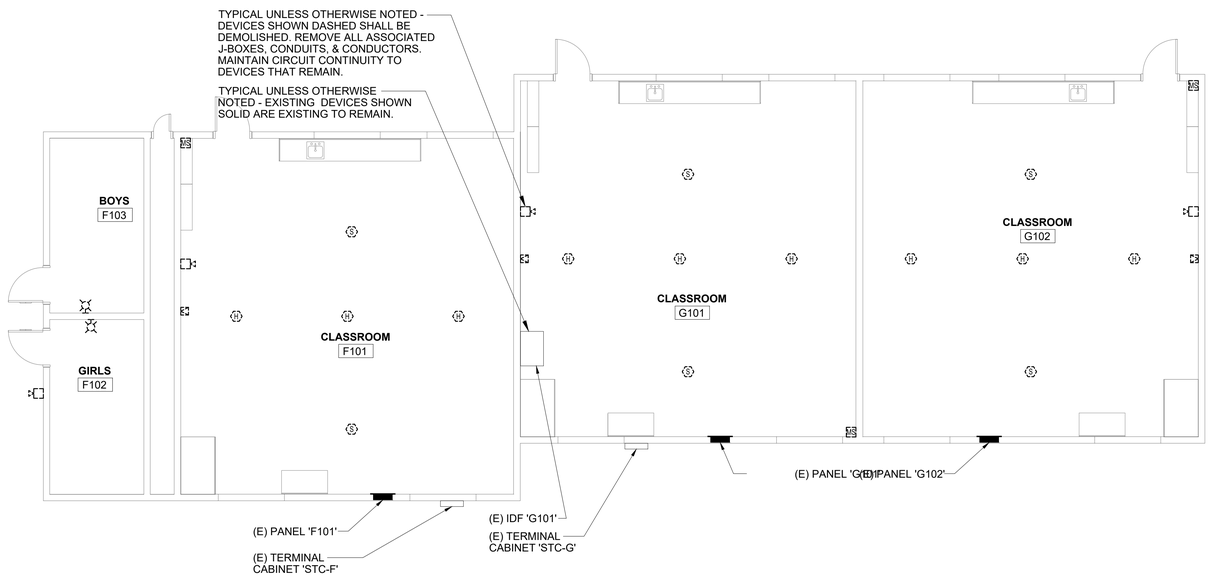

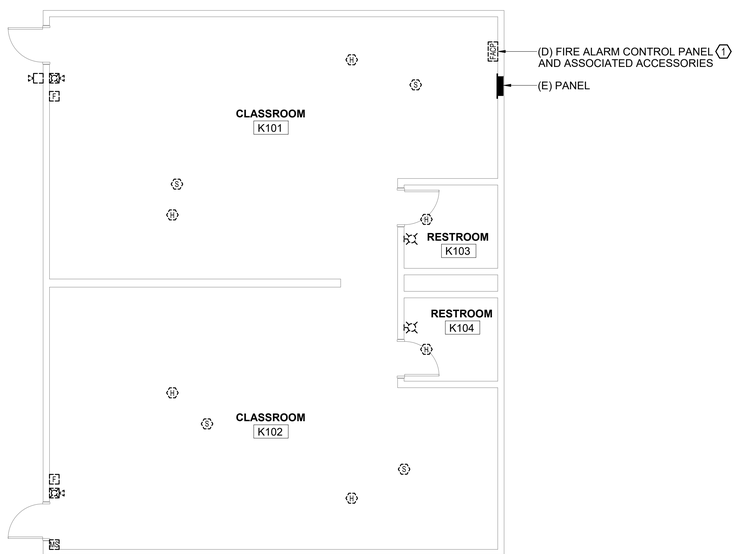

1-2 BLDG F, G, & K FLOOR PLAN - DEMOLITION SIGNAL
SCALE: 3/16" = 1'-0"

NORTH

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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REGISTERED PROFESSIONAL ENGINEER
TIM SAINO DONTY
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

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

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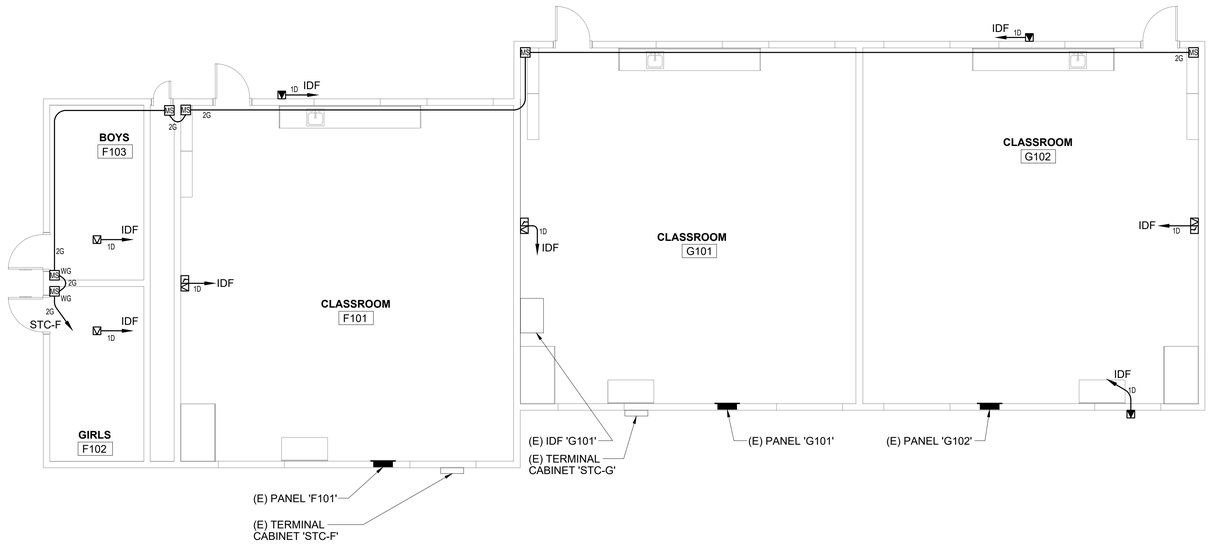
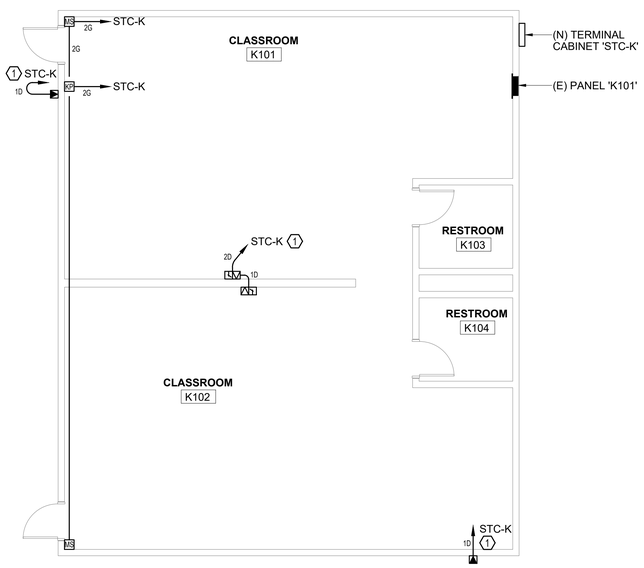
SHEET
E2.4.3-2





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

NORTH

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 TO IDF IN ROOM G101 VIA 'STC-K' AND 'STC-F'.

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PROFESSIONAL ENGINEER — No. E 017376 — ELECTRICAL — STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

Project Number J451 Contact Thien

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

INCREMENT #2

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DATE:	11/15/22
SHEET	E2.4.4-2

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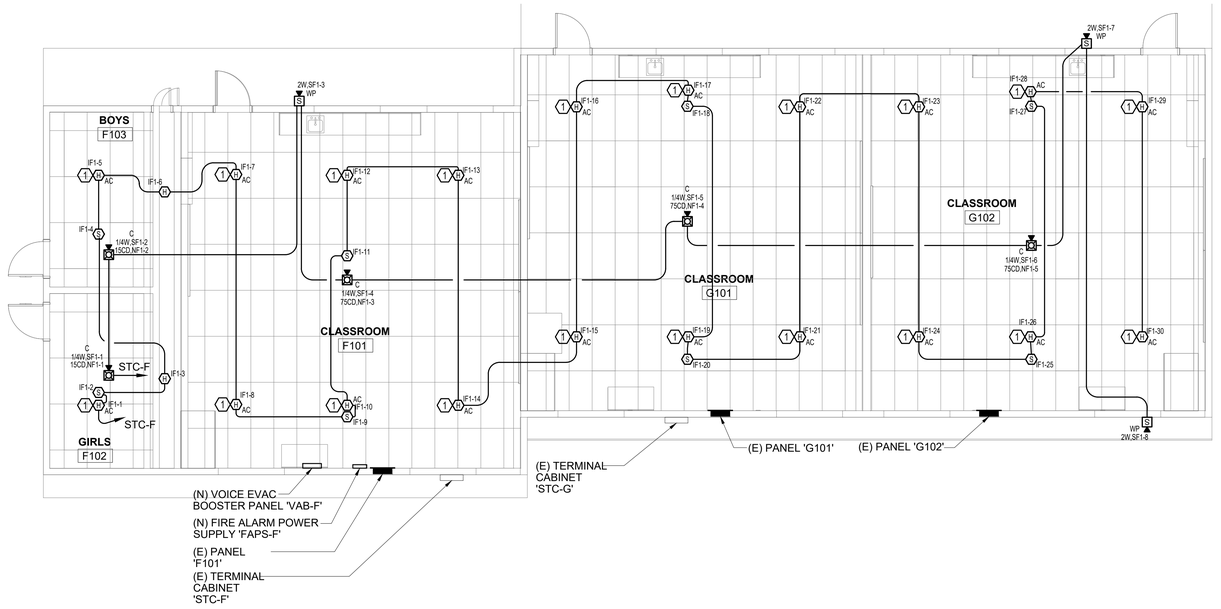

1-2 BLDG F, G, & K FLOOR PLAN - NEW FIRE ALARM
SCALE: 3/16" = 1'-0"

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. MOUNT ABOVE CEILING HEAT DETECTOR AT BOTTOM OF JOIST.

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REGISTERED PROFESSIONAL ENGINEER
TIM BAIRD DONNY LEE
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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BLDG F, G, & K FLOOR PLAN - NEW FIRE ALARM

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E2.4.5-2

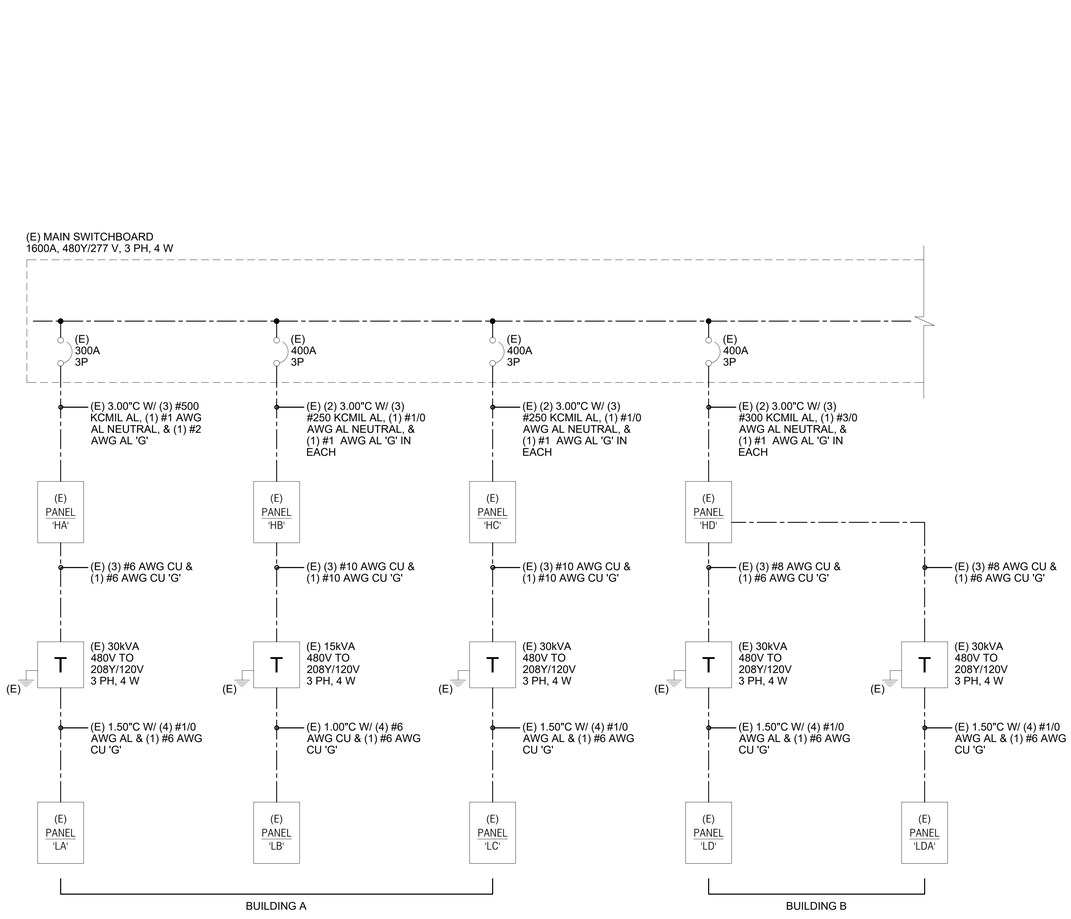
FIRE ALARM SYSTEM SEQUENCE OF OPERATION

		FIRE ALARM CONTROL PANEL			REMOTE ANNUNCIATOR			SUPERVISING STATION			NOTIFICATION			FIRE SAFETY FUNCTION			
X = REQUIRED ACTION BLANK MEANS NOT APPLICABLE		EFFECT	ACTUATE VISIBLE AND AUDIBLE COMMON ALARM SIGNAL	ACTUATE VISIBLE AND AUDIBLE COMMON SUPERVISORY SIGNAL	ACTUATE VISIBLE AND AUDIBLE COMMON TROUBLE SIGNAL	ACTUATE VISIBLE AND AUDIBLE COMMON ALARM SIGNAL	ACTUATE VISIBLE AND AUDIBLE COMMON SUPERVISORY ALARM SIGNAL	ACTUATE VISIBLE AND AUDIBLE COMMON TROUBLE SIGNAL	TRANSMIT GENERAL ALARM SIGNAL	TRANSMIT WATER FLOW ALARM SIGNAL	TRANSMIT SUPERVISORY ALARM SIGNAL	TRANSMIT TROUBLE SIGNAL	ACTUATE ALARM AUDIBLE NOTIFICATION APPLIANCES	ACTUATE ALARM VISUAL NOTIFICATION APPLIANCES	TEMPORAL CODE 4 TO SOUND IN ROOM WHERE DETECTION IS INSTALLED	RELEASE MAGNETICALLY HELD FIRE DOORS	CLOSE ASSOCIATED FIRE/SMOKE DAMPERS	SHUTDOWN BUILDING'S HVAC WITHIN ASSOCIATED DETECTED BUILDING	REMARKS
	CAUSE																			
1	MANUAL PULL STATION		X			X			X				X	X		X		X		
2	SMOKE DETECTOR		X			X			X				X	X		X		X		
3	HEAT DETECTOR		X			X			X				X	X		X		X		
5	DUCT DETECTOR		X			X			X				X	X		X	X	X		
6	FLOW SWITCH AT FIRE SPRINKLER RISER		X			X				X			X	X		X		X		
7	TAMPER SWITCH AT POST INDICATOR VALVE			X			X					X								
8	TAMPER SWITCH AT FIRE SPRINKLER RISER			X			X					X								
9	POWER FAILURE				X			X					X								
10	FIRE ALARM TROUBLE (OPEN, SHORTS OR GROUNDS ON INITIATION, NOTIFICATION OR SIGNALING LINE CIRCUITS)				X			X					X								
THE FIRE ALARM CONTROL PANEL'S TROUBLE, SUPERVISORY, AND ALARM SHALL BE MONITORED BY THE DISTRICT'S SUPERVISING STATION AS REQUIRED BY CBC AND NFPA 72.																				

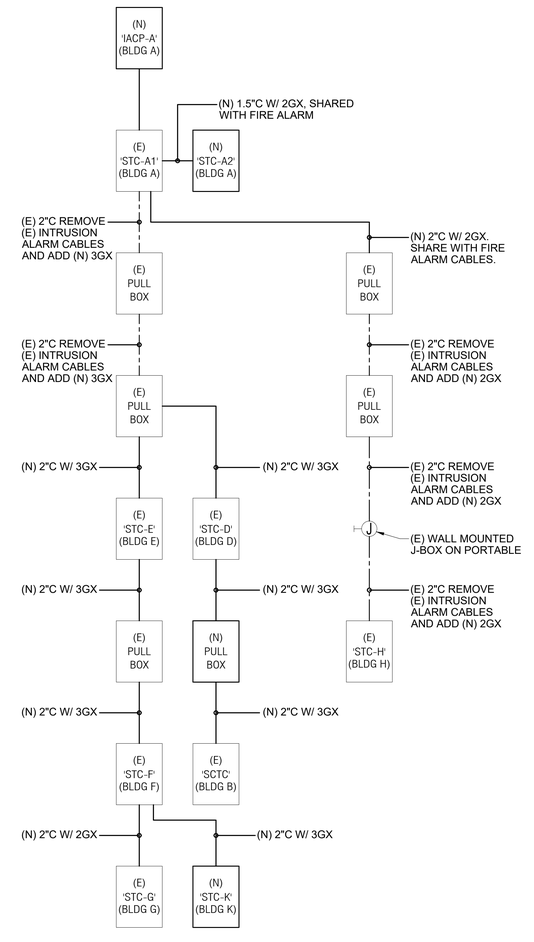
WIRE SCHEDULE

TYPE	AREA	OD	DESCRIPTION
B	0.0202	0.16	WEST PENN 293 (SPEAKER CABLE)
BX	0.0519	0.26	WEST PENN AQC293 (SPEAKER TRUNK)
C	0.0192	0.156	WEST PENN 224 (CLOCK POWER CABLE)
D	-	-	REFER TO SPECIFICATIONS (DATA CABLE)
E	0.0154	0.14	WEST PENN 292 (EXTERIOR SPEAKER CABLE)
EX	0.0381	0.22	WEST PENN AQC292 (EXTERIOR SPEAKER TRUNK)
F	-	-	REFER TO SPECIFICATIONS (FIBER OPTIC CABLE)
G	0.0284	0.19	WEST PENN 3244 (INTRUSION ALARM SYSTEM WIRING)
GX	0.1386	0.42	WEST PENN AQ3245 (INTRUSION ALARM SYSTEM TRUNK)
H	0.0077	(2) 0.07	(2) #14 THHN/THWN (RED, BLACK) (FIRE ALARM CONVENTIONAL INITIATION WIRING)
I	0.0315	0.20	WEST PENN D980 (FIRE ALARM ADDRESSABLE CABLE)
IX	0.0755	0.31	WEST PENN AQ293 (FIRE ALARM ADDRESSABLE TRUNK)
K	0.1386	0.42	SUPERIOR ESSEX SEALPIC-FSF, 12 PR, 24 AWG (TELEPHONE TRUNK - 12 PAIR)
L	0.2124	0.52	SUPERIOR ESSEX SEALPIC-FSF, 25 PR, 24 AWG (TELEPHONE TRUNK - 25 PAIR)
M	0.3422	0.66	SUPERIOR ESSEX SEALPIC-FSF, 50 PR, 24 AWG (TELEPHONE TRUNK - 50 PAIR)
N	0.0128	(2) 0.09	(2) #12 THHN/THWN (FIRE ALARM NOTIFICATION WIRING)
NX	0.0191	(2) 0.11	(2) #10 THWN (FIRE ALARM NOTIFICATION TRUNK)
S	0.0128	(2) 0.09	(2) #12 THHN/THWN (VOICE EVACUATION SPEAKER CABLE)
SX	0.0191	(2) 0.11	(2) #10 THWN (VOICE EVACUATION SPEAKER TRUNK)
T	0.0315	0.20	WEST PENN D980 (VOICE EVACUATION BOOSTER CABLE)
TX	0.0755	0.31	WEST PENN AQ293 (VOICE EVACUATION BOOSTER TRUNK)

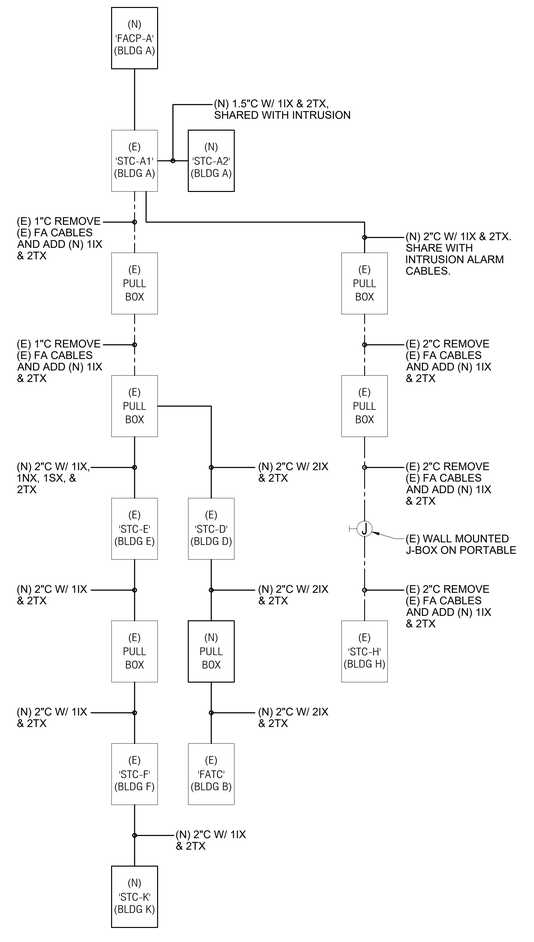
NOTE:
1. VERIFY ALL WIRING TYPES AND QUANTITY WITH SYSTEM VENDOR REQUIREMENTS.
2. PROVIDE SPARE CABLES WHERE SHOWN.



1-2 PARTIAL ONE-LINE DIAGRAM
SCALE: NONE



2-2 INTRUSION RISER DIAGRAM - SITE
SCALE: NONE



3-2 FIRE ALARM RISER DIAGRAM - SITE
SCALE: NONE

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No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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ONE-LINE DIAGRAM & RISER DIAGRAM

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SHEET
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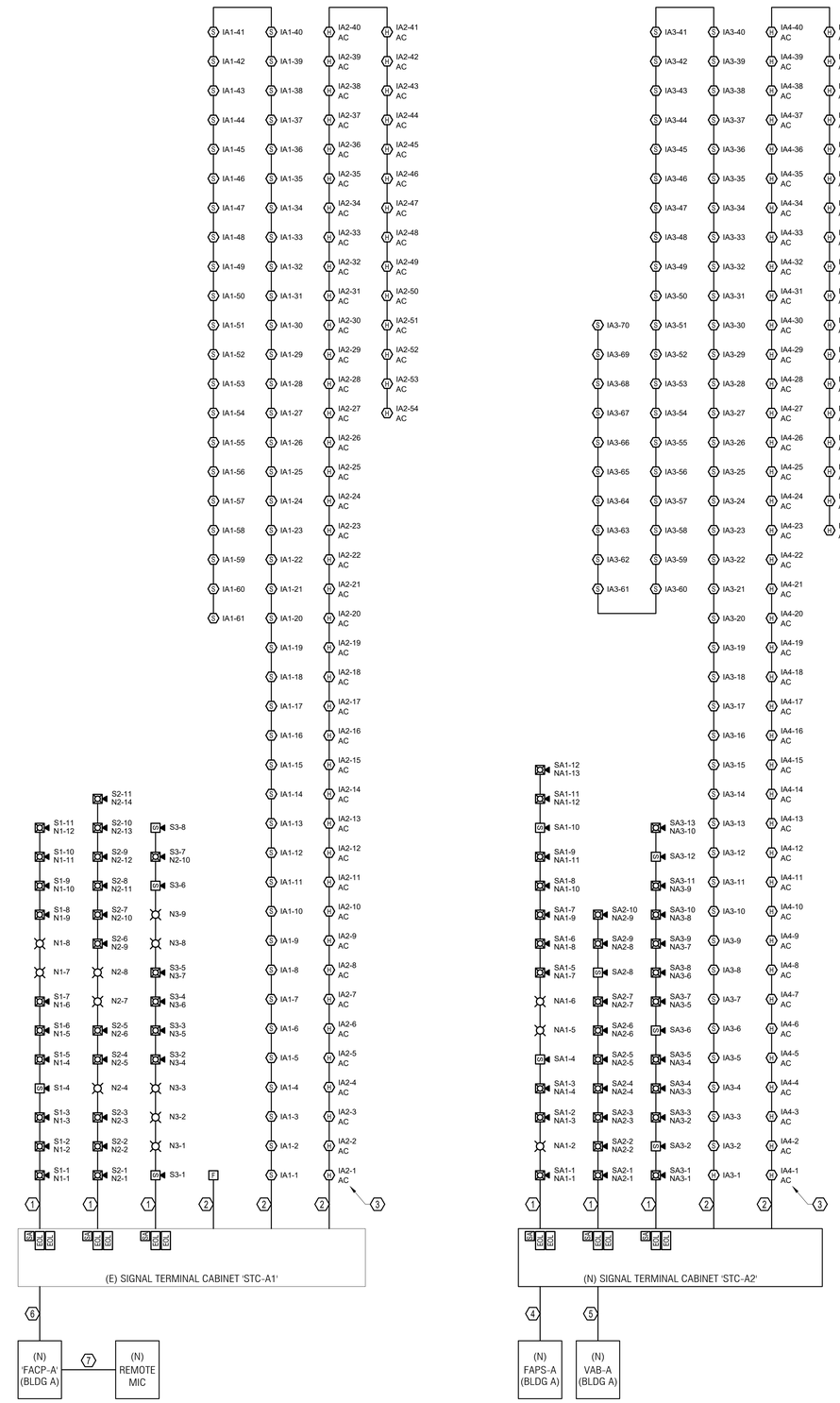
NUMBERED NOTES

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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PROFESSIONAL ENGINEER
No. E 011376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING

1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
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FIRE ALARM RISER DIAGRAM

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DATE:	11/15/22
SHEET	E3.1.2-2

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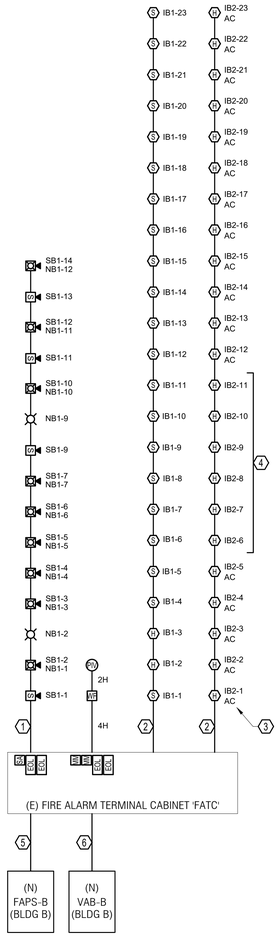
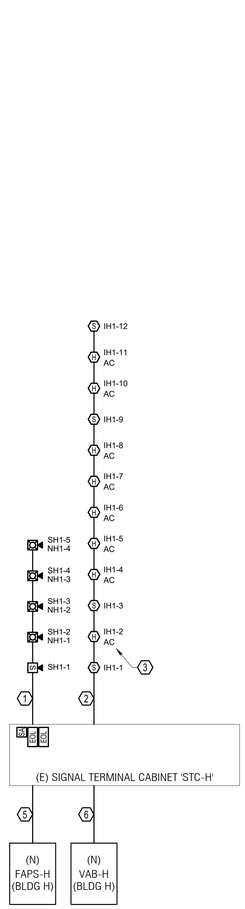
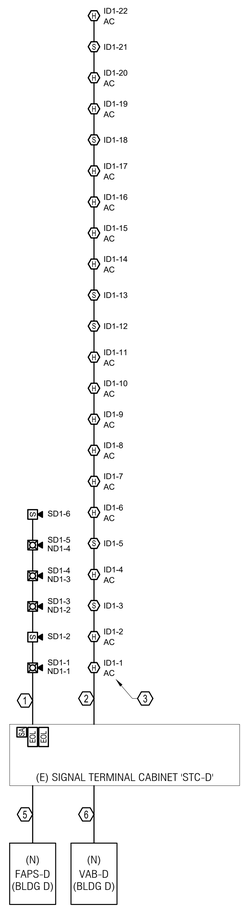
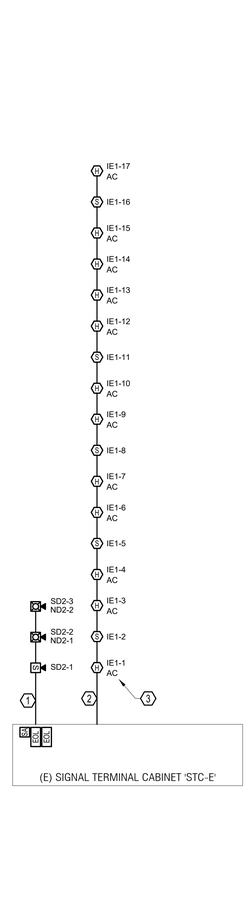
NUMBERED NOTES

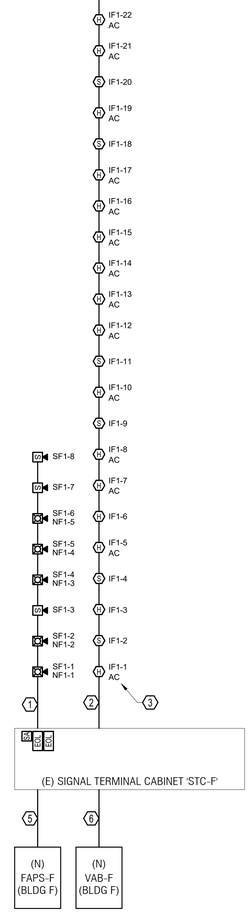
1. 3/4"C W/ 2N & 2S, TYPICAL, UNLESS OTHERWISE NOTED.
2. 3/4"C W/ 1I TYPICAL, UNLESS OTHERWISE NOTED.
3. PROVIDE MONITOR MODULE AND EOL RESISTOR FOR ABOVE CEILING HEAT DETECTOR, TYPICAL.
4. PROVIDE MONITOR MODULE AND EOL RESISTOR FOR BELOW FLOOR HEAT DETECTOR, TYPICAL.
5. 1"C W/ 2IX, 3H, & 4N.
6. 1"C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

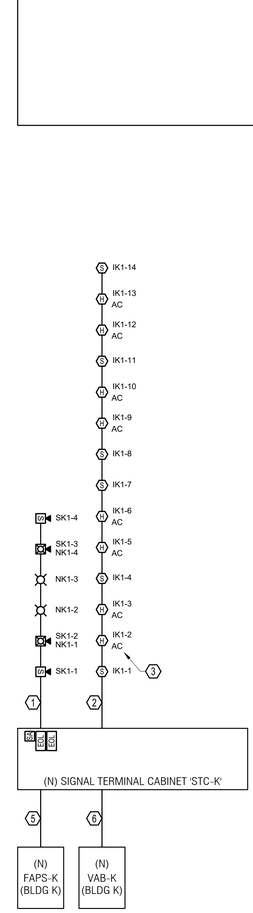












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EDGE ELECTRICAL CONSULTING
1801 7th Street
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Sacramento, CA 95811
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Suite 123A
Alameda, CA 94502
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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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FIRE ALARM RISER DIAGRAM

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET **E3.1.3-2**

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Control Panel Designation: FACP

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules							
(N)	LCD-E3	LCD Display	0.024	0.028	1	0.024	0.028
(N)	PM-9	E3 Series Power Supply	0.000	0.050	1	0.000	0.050
(N)	AM-50	Voice Evac Audio Booster/Amplifier	0.086	2.206	1	0.086	2.206
(N)	ILI-MB-E3	Intelligent Loop Interface	0.081	0.150	1	0.081	0.150
(N)	ASD-PL3	Smoke Detector	0.000	0.002	210	0.042	0.420
(N)	AMM-4F	Monitor Module	0.000	0.005	231	0.087	1.155
(N)	MS-7AF	Pull Station	0.000	0.003	1	0.000	0.003
	-		0.000	0.000	0	0.000	0.000
	-		0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals				**0.320**	**4.012**
Notification Appliance Circuits							
		Notification Circuit N1	0.000	0.454	1	0.000	0.454
		Notification Circuit N2	0.000	0.446	1	0.000	0.446
		Notification Circuit N3	0.000	0.304	1	0.000	0.304
	Spare	Notification Circuit -	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals				**0.000**	**1.204**
		Overall Totals				0.320	5.216

Summary:

Standby Amps x 24 hrs. = Amp hrs.	7.671
Alarm Current x 0.25 hrs = Amp hrs.	1.304
Total Amp Hour Current	8.975
20% Safety Factor	1.795
TOTAL AMP HOUR BATTERY REQUIRED	**10.770**

AH BATTERY PROVIDED 24.0

Appliance Circuit Voltage Drop: N1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V — Wire: Ohm's
Minimum Device Voltage: 16 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N1 -1	0.06	54	12	2.01	23.90	0.099	0.41%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N1 -2	0.022	59	12	2.01	23.81	0.192	0.80%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N1 -3	0.022	25	12	2.01	23.77	0.229	0.96%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N1 -4	0.06	69	12	2.01	23.67	0.326	1.36%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N1 -5	0.06	27	12	2.01	23.64	0.358	1.49%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N1 -6	0.022	48	12	2.01	23.60	0.402	1.68%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N1 -7	0.022	14	12	2.01	23.59	0.414	1.73%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N1 -8	0.022	16	12	2.01	23.57	0.426	1.77%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N1 -9	0.06	15	12	2.01	23.56	0.436	1.82%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N1 -10	0.06	42	12	2.01	23.55	0.453	1.89%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N1 -11	0.022	28	12	2.01	23.54	0.458	1.91%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N1 -12	0.022	25	12	2.01	23.54	0.461	1.92%
		Total	**0.454**	**422**			**23.54**	**0.461**	**1.92%**

Summary:

Available Amp on Circuit	2 A	End of Line Voltage	23.54 V
Remaining Amp on Circuit	1.546 A	Total Voltage Drop	0.461 V
Remaining Amp % on Circuit	77.30%	Voltage Drop %	2.26%

Appliance Circuit Voltage Drop: N2

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V — Wire: Ohm's
Minimum Device Voltage: 16 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N2 -1	0.022	48	12	2.01	23.91	0.086	0.36%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	N2 -2	0.06	28	12	2.01	23.87	0.134	0.56%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N2 -3	0.022	28	12	2.01	23.83	0.175	0.73%
ELSTRC (30cd)	Strobe, Ceiling, 30cd	N2 -4	0.03	22	12	2.01	23.79	0.205	0.85%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N2 -5	0.022	24	12	2.01	23.76	0.235	0.98%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	N2 -6	0.03	58	12	2.01	23.70	0.303	1.26%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N2 -7	0.022	26	12	2.01	23.67	0.330	1.37%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N2 -8	0.022	24	12	2.01	23.65	0.353	1.47%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	N2 -9	0.03	26	12	2.01	23.62	0.375	1.56%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N2 -10	0.06	52	12	2.01	23.59	0.414	1.73%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N2 -11	0.06	12	12	2.01	23.58	0.420	1.75%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N2 -12	0.022	23	12	2.01	23.57	0.426	1.78%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N2 -13	0.022	50	12	2.01	23.56	0.435	1.81%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N2 -14	0.022	44	12	2.01	23.56	0.439	1.83%
		Total	**0.446**	**465**			**23.56**	**0.439**	**1.83%**

Summary:

Available Amp on Circuit	2 A	End of Line Voltage	23.56 V
Remaining Amp on Circuit	1.554 A	Total Voltage Drop	0.439 V
Remaining Amp % on Circuit	77.70%	Voltage Drop %	2.15%

Appliance Circuit Voltage Drop: N3

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V — Wire: Ohm's
Minimum Device Voltage: 16 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSTRC (75cd)	Strobe, Ceiling, 75cd	N3 -1	0.06	85	12	2.01	23.90	0.104	0.43%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N3 -2	0.022	29	12	2.01	23.87	0.132	0.55%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N3 -3	0.022	18	12	2.01	23.85	0.148	0.62%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	N3 -4	0.03	21	12	2.01	23.83	0.165	0.69%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N3 -5	0.022	20	12	2.01	23.82	0.179	0.75%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N3 -6	0.022	30	12	2.01	23.80	0.197	0.82%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	N3 -7	0.022	13	12	2.01	23.80	0.203	0.85%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	N3 -8	0.022	17	12	2.01	23.79	0.210	0.88%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	N3 -9	0.022	14	12	2.01	23.78	0.215	0.90%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	N3 -10	0.06	65	12	2.01	23.77	0.231	0.96%
		Total	**0.304**	**312**			**23.77**	**0.231**	**0.96%**

Summary:

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%

Control Panel Designation: FAPS-A

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules							
(N)	HPF24S6	Remote Power Supply	0.065	0.145	1	0.065	0.145
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-		0.000	0.000	0	0.000	0.000
	-		0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals				**0.065**	**0.145**
Notification Appliance Circuits							
		Notification Circuit NA1	0.000	0.462	1	0.000	0.462
		Notification Circuit NA2	0.000	0.462	1	0.000	0.462
		Notification Circuit NA3	0.000	0.410	1	0.000	0.410
	Spare	Notification Circuit -	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals				**0.000**	**1.334**
		Overall Totals				0.065	1.479

Summary:

Standby Amps x 24 hrs. = Amp hrs.	1.560
Alarm Current x 0.25 hrs = Amp hrs.	0.370
Total Amp Hour Current	1.930
20% Safety Factor	0.386
TOTAL AMP HOUR BATTERY REQUIRED	**2.316**

AH BATTERY PROVIDED 7.0

Appliance Circuit Voltage Drop: S1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire: Ohm's
Minimum Device Voltage: 20.4 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S1 -1	0.02	54	12	2.01	24.95	0.052	0.21%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S1 -2	0.02	59	12	2.01	24.90	0.104	0.42%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S1 -3	0.02	25	12	2.01	24.88	0.124	0.50%
ET-1010-R (2W)	Speaker, Exterior, 2W	S1 -4	0.08	32	12	2.01	24.85	0.148	0.59%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S1 -5	0.02	37	12	2.01	24.84	0.162	0.65%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S1 -6	0.02	27	12	2.01	24.83	0.171	0.68%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S1 -7	0.01	48	12	2.01	24.82	0.183	0.73%
ELSPSTR (1/4W)	Speaker/Strobe, Wall, 1/4W	S1 -8	0.01	45	12	2.01	24.81	0.192	0.77%
ELSPSTR (1/4W)	Speaker/Strobe, Wall, 1/4W	S1 -9	0.01	42	12	2.01	24.80	0.198	0.79%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S1 -10	0.01	28	12	2.01	24.80	0.202	0.81%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S1 -11	0.02	25	12	2.01	24.80	0.204	0.82%
		Total	**0.240**	**422**			**24.80**	**0.204**	**0.82%**

Summary:

Available Amp on Circuit	2.206 A	End of Line Voltage	24.80 V
Remaining Amp on Circuit	1.966 A	Total Voltage Drop	0.204 V
Remaining Amp % on Circuit	89.12%	Voltage Drop %	1.00%

Appliance Circuit Voltage Drop: S2

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire: Ohm's
Minimum Device Voltage: 20.4 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S2 -1	0.02	48	12	2.01	24.97	0.035	0.14%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S2 -2	0.01	28	12	2.01	24.95	0.053	0.21%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S2 -3	0.01	28	12	2.01	24.93	0.070	0.28%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S2 -4	0.02	48	12	2.01	24.90	0.096	0.38%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S2 -5	0.01	58	12	2.01	24.88	0.123	0.49%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S2 -6	0.01	76	12	2.01	24.84	0.157	0.63%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S2 -7	0.02	52	12	2.01	24.82	0.178	0.71%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S2 -8	0.02	12	12	2.01	24.82	0.182	0.73%
ELSPSTRC (1/2W)	Speaker/Strobe, Ceiling, 1/2W	S2 -9	0.02	23	12	2.01	24.81	0.187	0.75%
ELSPSTRC (1/2W)	Speaker/Strobe, Ceiling, 1/2W	S2 -10	0.02	50	12	2.01	24.80	0.195	0.78%
ELSPSTRC (1/2W)	Speaker/Strobe, Ceiling, 1/2W	S2 -11	0.02	44	12	2.01	24.80	0.199	0.80%
		Total	**0.180**	**465**			**24.80**	**0.199**	**0.80%**

Summary:

Available Amp on Circuit	2.206 A	End of Line Voltage	24.80 V
Remaining Amp on Circuit	2.026 A	Total Voltage Drop	0.199 V
Remaining Amp % on Circuit	91.84%	Voltage Drop %	0.98%

Appliance Circuit Voltage Drop: S3

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire: Ohm's
Minimum Device Voltage: 20.4 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ET-1010-R (2W)	Speaker, Exterior, 2W	S3 -1	0.08	56	12	2.01	24.93	0.070	0.28%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S3 -2	0.01	97	12	2.01	24.84	0.159	0.64%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S3 -3	0.01	20	12	2.01	24.82	0.177	0.71%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S3 -4	0.02	30	12	2.01	24.80	0.202	0.81%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S3 -5	0.01	13	12	2.01	24.79	0.212	0.85%
ET-1010-R (2W)	Speaker, Exterior, 2W	S3 -6	0.08	75	12	2.01	24.73	0.267	1.07%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	S3 -7	0.02	21	12	2.01	24.72	0.275	1.10%
ET-1010-R (2W)	Speaker, Exterior, 2W	S3 -8	0.08	48	12	2.01	24.71	0.291	1.16%
		Total	**0.310**	**360**			**24.71**	**0.291**	**1.16%**

Summary:

Available Amp on Circuit	2.206 A	End of Line Voltage	24.71 V
Remaining Amp on Circuit	1.896 A	Total Voltage Drop	0.291 V
Remaining Amp % on Circuit	85.95%	Voltage Drop %	1.42%

Control Panel Designation: VAB-A

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules							
(N)	AM-50	Voice Evac Audio Booster/Amplifier	0.086	2.206	1	0.086	2.206
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
	-	-	0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals				**0.086**	**2.206**
Notification Appliance Circuits							
		Speaker Circuit SA1	0.000	0.340	1	0.000	0.340
		Speaker Circuit SA2	0.000	0.300	1	0.000	0.300
		Speaker Circuit SA3	0.000	0.430	1	0.000	0.430
	Spare	Speaker Circuit -	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals				**0.000**	**1.070**
		Overall Totals				0.086	3.276

Summary:

Standby Amps x 24 hrs. = Amp hrs.	2.064
Alarm Current x 0.25 hrs = Amp hrs.	0.819
Total Amp Hour Current	2.883
20% Safety Factor	0.577
TOTAL AMP HOUR BATTERY REQUIRED	**3.460**

AH BATTERY PROVIDED 7.0

Wattage Summary:

Amplifier Watts	50.0
Watts Used:	26.8
Spare Watts:	23.3

Appliance Circuit Voltage Drop: NA1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V — Wire: Ohm's
Minimum Device Voltage: 16 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA1 -1	0.06	34	12	2.01	23.94	0.063	0.26%
ELSTRC (30cd)	Strobe, Ceiling, 30cd	NA1 -2	0.03	35	12	2.01	23.88	0.120	0.50%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA1 -3	0.022	59	12	2.01	23.79	0.208	0.87%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA1 -4	0.06	38	12	2.01	23.74	0.261	1.09%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	NA1 -5	0.022	49	12	2.01	23.68	0.319	1.33%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	NA1 -6	0.022	17	12	2.01	23.66	0.337	1.40%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NA1 -7	0.03	30	12	2.01	23.63	0.367	1.53%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NA1 -8	0.03	33	12	2.01	23.60	0.395	1.65%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA1 -9	0.022	35	12	2.01	23.58	0.421	1.76%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA1 -10	0.022	23	12	2.01	23.56	0.436	1.82%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA1 -11	0.06	30	12	2.01	23.55	0.454	1.89%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA1 -12	0.022	52	12	2.01	23.53	0.471	1.96%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA1 -13	0.06	53	12	2.01	23.52	0.484	2.01%
		Total	**0.462**	**488**			**23.52**	**0.484**	**2.01%**

Summary:

Available Amp on Circuit	3 A	End of Line Voltage	23.52 V
Remaining Amp on Circuit	2.538 A	Total Voltage Drop	0.484 V
Remaining Amp % on Circuit	84.60%	Voltage Drop %	2.37%

Appliance Circuit Voltage Drop: NA2

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V — Wire: Ohm's
Minimum Device Voltage: 16 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	NA2 -1	0.022	37	12	2.01	23.93	0.069	0.29%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	NA2 -2	0.022	29	12	2.01	23.88	0.120	0.50%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA2 -3	0.06	22	12	2.01	23.84	0.157	0.65%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA2 -4	0.06	44	12	2.01	23.78	0.220	0.92%
ELSPSTRC (30cd)	Speaker/Strobe, Wall, 30cd	NA2 -5	0.03	72	12	2.01	23.69	0.307	1.28%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA2 -6	0.06	53	12	2.01	23.64	0.364	1.52%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA2 -7	0.022	22	12	2.01	23.62	0.382	1.59%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA2 -8	0.06	80	12	2.01	23.56	0.442	1.84%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	NA2 -9	0.022	30	12	2.01	23.54	0.457	1.90%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA2 -10	0.022	42	12	2.01	23.53	0.475	1.98%
ELSPSTR (15cd)	Speaker/Strobe, Wall, 15cd	NA2 -11	0.022	30	12	2.01	23.52	0.485	2.02%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA2 -12	0.06	22	12	2.01	23.51	0.490	2.04%
		Total	**0.462**	**483**			**23.51**	**0.490**	**2.04%**

Summary:

Available Amp on Circuit	3 A	End of Line Voltage	23.51 V
Remaining Amp on Circuit	2.538 A	Total Voltage Drop	0.490 V
Remaining Amp % on Circuit	84.60%	Voltage Drop %	2.40%

Appliance Circuit Voltage Drop: NA3

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V — Wire: Ohm's
Minimum Device Voltage: 16 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA3 -1	0.06	47	12	2.01	23.92	0.077	0.32%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA3 -2	0.022	67	12	2.01	23.83	0.172	0.72%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA3 -3	0.06	19	12	2.01	23.80	0.197	0.82%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA3 -4	0.022	54	12	2.01	23.75	0.255	1.06%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA3 -5	0.022	45	12	2.01	23.70	0.299	1.25%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA3 -6	0.06	49	12	2.01	23.66	0.344	1.43%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA3 -7	0.022	37	12	2.01	23.63	0.368	1.53%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NA3 -8	0.022	29	12	2.01	23.62	0.385	1.60%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA3 -9	0.06	33	12	2.01	23.60	0.400	1.67%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NA3 -10	0.06	76	12	2.01	23.58	0.419	1.74%
		Total	**0.410**	**456**			**23.58**	**0.419**	**1.74%**

Summary:

Available Amp on Circuit	3 A	End of Line Voltage	23.58 V
Remaining Amp on Circuit	2.590 A	Total Voltage Drop	0.419 V
Remaining Amp % on Circuit	86.33%	Voltage Drop %	2.05%

Appliance Circuit Voltage Drop: SA1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire: Ohm's
Minimum Device Voltage: 20.4 V — Gauge: Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Gauge	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SA1 -1	0.02	34	12	2.01	24.95	0.046	0.19%
ELSPSTRC (1/2W)	Speaker/Strobe, Ceiling, 1/2W	SA1 -2	0.02	94	12	2.01	24.83	0.167	0.67%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SA1 -3	0.02	38	12	2.01	24.79	0.213

BLDG B

Control Panel Designation: FAPS-B

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	HPF24S6	Remote Power Supply		0.065	0.145	1	0.065	0.145
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
Control Panel Modules Totals							**0.065**	**0.145**
Notification Appliance Circuits								
		Notification Circuit	NB1	0.000	0.470	1	0.000	0.470
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
Notification Appliance Circuit Totals							**0.000**	**0.470**
Overall Totals							**0.065**	**0.615**

Summary:
- Standby Amps x 24 hrs. = Amp hrs. 1.560
- Alarm Current x 0.25 hrs = Amp hrs. 0.154
- Total Amp Hour Current 1.714
- 20% Safety Factor 0.343

TOTAL AMP HOUR BATTERY REQUIRED **2.057** **AH BATTERY PROVIDED** **7.0**

Control Panel Designation: VAB-B

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	AM-50	Voice Evac Audio Booster/Amplifier		0.086	2.206	1	0.086	2.206
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
Control Panel Modules Totals							**0.086**	**2.206**
Notification Appliance Circuits								
		Speaker Circuit	SB1	0.000	0.470	1	0.000	0.470
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
Notification Appliance Circuit Totals							**0.000**	**0.470**
Overall Totals							**0.086**	**2.676**

Summary:
- Standby Amps x 24 hrs. = Amp hrs. 2.064
- Alarm Current x 0.25 hrs = Amp hrs. 0.669
- Total Amp Hour Current 2.733
- 20% Safety Factor 0.547

Wattage Summary:
- Amplifier Watts: 50.0
- Watts Used: 11.8
- Spare Watts: 38.3

TOTAL AMP HOUR BATTERY REQUIRED **3.280** **AH BATTERY PROVIDED** **7.0**

Appliance Circuit Voltage Drop: NB1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 24 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 16 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NB1 -1	0.03	86	12	2.01	23.84	0.162	0.68%
ELSTRC (30cd)	Strobe, Ceiling, 30cd	NB1 -2	0.03	27	12	2.01	23.79	0.210	0.88%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NB1 -3	0.022	25	12	2.01	23.75	0.251	1.05%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NB1 -4	0.022	16	12	2.01	23.72	0.276	1.15%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NB1 -5	0.06	15	12	2.01	23.70	0.298	1.24%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NB1 -6	0.022	29	12	2.01	23.67	0.334	1.39%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NB1 -7	0.022	22	12	2.01	23.64	0.359	1.50%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NB1 -8	0.06	23	12	2.01	23.62	0.383	1.60%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	NB1 -9	0.022	78	12	2.01	23.55	0.447	1.86%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NB1 -10	0.06	38	12	2.01	23.53	0.474	1.98%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NB1 -11	0.06	106	12	2.01	23.47	0.525	2.19%
ELSPSTR (75cd)	Speaker/Strobe, Wall, 75cd	NB1 -12	0.06	53	12	2.01	23.46	0.538	2.24%
		Total	**0.470**	**518**			**23.46**	**0.538**	**2.24%**

Summary:
- Available Amp on Circuit 3 A — End of Line Voltage 23.46 V
- Remaining Amp on Circuit 2.530 A — Total Voltage Drop 0.538 V
- Remaining Amp % on Circuit 84.33% — Voltage Drop % 2.64%

Appliance Circuit Voltage Drop: SB1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 20.4 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ET-1010-R (2W)	Speaker, Exterior, 2W	SB1 -1	0.08	60	12	2.01	24.89	0.113	0.45%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SB1 -2	0.01	26	12	2.01	24.85	0.154	0.62%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SB1 -3	0.01	52	12	2.01	24.77	0.234	0.93%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SB1 -4	0.01	16	12	2.01	24.74	0.257	1.03%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SB1 -5	0.02	15	12	2.01	24.72	0.279	1.12%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SB1 -6	0.01	29	12	2.01	24.68	0.319	1.27%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SB1 -7	0.01	22	12	2.01	24.65	0.348	1.39%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SB1 -8	0.02	23	12	2.01	24.62	0.377	1.51%
ET-1010-R (2W)	Speaker, Exterior, 2W	SB1 -9	0.08	25	12	2.01	24.59	0.408	1.63%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SB1 -10	0.02	91	12	2.01	24.51	0.488	1.95%
ET-1010-R (2W)	Speaker, Exterior, 2W	SB1 -11	0.08	44	12	2.01	24.48	0.523	2.09%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SB1 -12	0.02	62	12	2.01	24.45	0.553	2.21%
ET-1010-R (2W)	Speaker, Exterior, 2W	SB1 -13	0.08	26	12	2.01	24.44	0.564	2.26%
ELSPSTR (1/2W)	Speaker/Strobe, Wall, 1/2W	SB1 -14	0.02	27	12	2.01	24.43	0.566	2.26%
		Total	**0.470**	**518**			**24.43**	**0.566**	**2.26%**

Summary:
- Available Amp on Circuit 2.206 A — End of Line Voltage 24.43 V
- Remaining Amp on Circuit 1.736 A — Total Voltage Drop 0.566 V
- Remaining Amp % on Circuit 78.69% — Voltage Drop % 2.77%

BLDG H & J

Control Panel Designation: FAPS-H

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	HPF24S6	Remote Power Supply		0.065	0.145	1	0.065	0.145
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
Control Panel Modules Totals							**0.065**	**0.145**
Notification Appliance Circuits								
		Notification Circuit	NH1	0.000	0.120	1	0.000	0.120
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
Notification Appliance Circuit Totals							**0.000**	**0.120**
Overall Totals							**0.065**	**0.265**

Summary:
- Standby Amps x 24 hrs. = Amp hrs. 1.560
- Alarm Current x 0.25 hrs = Amp hrs. 0.066
- Total Amp Hour Current 1.626
- 20% Safety Factor 0.325

TOTAL AMP HOUR BATTERY REQUIRED **1.952** **AH BATTERY PROVIDED** **7.0**

Control Panel Designation: VAB-H

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	AM-50	Voice Evac Audio Booster/Amplifier		0.086	2.206	1	0.086	2.206
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
Control Panel Modules Totals							**0.086**	**2.206**
Notification Appliance Circuits								
		Speaker Circuit	SH1	0.000	0.120	1	0.000	0.120
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
Notification Appliance Circuit Totals							**0.000**	**0.120**
Overall Totals							**0.086**	**2.326**

Summary:
- Standby Amps x 24 hrs. = Amp hrs. 2.064
- Alarm Current x 0.25 hrs = Amp hrs. 0.582
- Total Amp Hour Current 2.646
- 20% Safety Factor 0.529

Wattage Summary:
- Amplifier Watts: 50.0
- Watts Used: 3.0
- Spare Watts: 47.0

TOTAL AMP HOUR BATTERY REQUIRED **3.175** **AH BATTERY PROVIDED** **7.0**

Appliance Circuit Voltage Drop: NH1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 24 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 16 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NH1 -1	0.03	80	12	2.01	23.96	0.039	0.16%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NH1 -2	0.03	36	12	2.01	23.95	0.052	0.22%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NH1 -3	0.03	52	12	2.01	23.94	0.064	0.27%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	NH1 -4	0.03	31	12	2.01	23.93	0.068	0.28%
		Total	**0.120**	**199**			**23.93**	**0.068**	**0.28%**

Summary:
- Available Amp on Circuit 3 A — End of Line Voltage 23.93 V
- Remaining Amp on Circuit 2.880 A — Total Voltage Drop 0.068 V
- Remaining Amp % on Circuit 96.00% — Voltage Drop % 0.33%

Appliance Circuit Voltage Drop: SH1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 20.4 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ET-1010-R (2W)	Speaker, Exterior, 2W	SH1 -1	0.08	57	12	2.01	24.97	0.027	0.11%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SH1 -2	0.01	23	12	2.01	24.97	0.031	0.12%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SH1 -3	0.01	36	12	2.01	24.96	0.036	0.14%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SH1 -4	0.01	52	12	2.01	24.96	0.040	0.16%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SH1 -5	0.01	31	12	2.01	24.96	0.041	0.16%
		Total	**0.120**	**199**			**24.96**	**0.041**	**0.16%**

Summary:
- Available Amp on Circuit 2.206 A — End of Line Voltage 24.96 V
- Remaining Amp on Circuit 2.086 A — Total Voltage Drop 0.041 V
- Remaining Amp % on Circuit 94.56% — Voltage Drop % 0.20%

BLDG C, D, & E

Control Panel Designation: FAPS-D

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	HPF24S6	Remote Power Supply		0.065	0.145	1	0.065	0.145
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
Control Panel Modules Totals							**0.065**	**0.145**
Notification Appliance Circuits								
		Notification Circuit	ND1	0.000	0.180	1	0.000	0.180
		Notification Circuit	ND2	0.000	0.120	1	0.000	0.120
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
Notification Appliance Circuit Totals							**0.000**	**0.300**
Overall Totals							**0.065**	**0.445**

Summary:
- Standby Amps x 24 hrs. = Amp hrs. 1.560
- Alarm Current x 0.25 hrs = Amp hrs. 0.111
- Total Amp Hour Current 1.671
- 20% Safety Factor 0.334

TOTAL AMP HOUR BATTERY REQUIRED **2.006** **AH BATTERY PROVIDED** **7.0**

Control Panel Designation: VAB-D

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	AM-50	Voice Evac Audio Booster/Amplifier		0.086	2.206	1	0.086	2.206
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
Control Panel Modules Totals							**0.086**	**2.206**
Notification Appliance Circuits								
		Speaker Circuit	SD1	0.000	0.200	1	0.000	0.200
		Speaker Circuit	SD2	0.000	0.100	1	0.000	0.100
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
Notification Appliance Circuit Totals							**0.000**	**0.300**
Overall Totals							**0.086**	**2.506**

Summary:
- Standby Amps x 24 hrs. = Amp hrs. 2.064
- Alarm Current x 0.25 hrs = Amp hrs. 0.627
- Total Amp Hour Current 2.691
- 20% Safety Factor 0.538

Wattage Summary:
- Amplifier Watts: 50.0
- Watts Used: 7.5
- Spare Watts: 42.5

TOTAL AMP HOUR BATTERY REQUIRED **3.229** **AH BATTERY PROVIDED** **7.0**

Appliance Circuit Voltage Drop: ND1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 24 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 16 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	ND1 -1	0.06	79	12	2.01	23.94	0.057	0.24%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	ND1 -2	0.06	80	12	2.01	23.90	0.096	0.40%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	ND1 -3	0.03	70	12	2.01	23.89	0.113	0.47%
ELSPSTRC (30cd)	Speaker/Strobe, Ceiling, 30cd	ND1 -4	0.03	34	12	2.01	23.88	0.117	0.49%
		Total	**0.180**	**263**			**23.88**	**0.117**	**0.49%**

Summary:
- Available Amp on Circuit 3 A — End of Line Voltage 23.88 V
- Remaining Amp on Circuit 2.820 A — Total Voltage Drop 0.117 V
- Remaining Amp % on Circuit 94.00% — Voltage Drop % 0.57%

Appliance Circuit Voltage Drop: ND2

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 24 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 16 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	ND2 -1	0.06	198	12	2.01	23.90	0.096	0.40%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	ND2 -2	0.06	37	12	2.01	23.90	0.104	0.44%
		Total	**0.120**	**235**			**23.90**	**0.104**	**0.44%**

Summary:
- Available Amp on Circuit 3 A — End of Line Voltage 23.90 V
- Remaining Amp on Circuit 2.880 A — Total Voltage Drop 0.104 V
- Remaining Amp % on Circuit 96.00% — Voltage Drop % 0.51%

Appliance Circuit Voltage Drop: SD1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 20.4 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SD1 -1	0.01	79	12	2.01	24.94	0.064	0.25%
ET-1010-R (2W)	Speaker, Exterior, 2W	SD1 -2	0.08	39	12	2.01	24.91	0.093	0.37%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SD1 -3	0.01	41	12	2.01	24.89	0.111	0.45%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SD1 -4	0.01	70	12	2.01	24.86	0.140	0.56%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SD1 -5	0.01	34	12	2.01	24.85	0.152	0.61%
ET-1010-R (2W)	Speaker, Exterior, 2W	SD1 -6	0.08	28	12	2.01	24.84	0.161	0.64%
		Total	**0.200**	**291**			**24.84**	**0.161**	**0.64%**

Summary:
- Available Amp on Circuit 2.206 A — End of Line Voltage 24.84 V
- Remaining Amp on Circuit 2.006 A — Total Voltage Drop 0.161 V
- Remaining Amp % on Circuit 90.93% — Voltage Drop % 0.79%

Appliance Circuit Voltage Drop: SD2

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V — Wire Gauge — Ohm's Per 1000
Minimum Device Voltage 20.4 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Drop from source	Percent Drop
ET-1010-R (2W)	Speaker, Exterior, 2W	SD2 -1	0.08	169	12	2.01	24.93	0.068	0.27%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SD2 -2	0.01	29	12	2.01	24.93	0.070	0.28%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SD2 -3	0.01	37	12	2.01	24.93	0.072	0.29%
		Total	**0.100**	**235**			**24.93**	**0.072**	**0.29%**

Summary:
- Available Amp on Circuit 2.206 A — End of Line Voltage 24.93 V
- Remaining Amp on Circuit 2.106 A — Total Voltage Drop 0.072 V
- Remaining Amp % on Circuit 95.47% — Voltage Drop % 0.35%

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EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 — Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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FIRE ALARM CALCULATIONS

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E3.1.5-2

10/31/2022 10:24:32 AM C:\Users\amcginn\Documents_Abby\Local Files\1515 Villalovoz Mod_DD_Abigail.McGinn.rvt

BLDG F & G

Control Panel Designation: FAPS-F

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	HPF24S6	Remote Power Supply		0.065	0.145	1	0.065	0.145
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals					**0.065**	**0.145**
Notification Appliance Circuits								
		Notification Circuit	NF1	0.000	0.224	1	0.000	0.224
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals					**0.000**	**0.224**
		Overall Totals					0.065	0.369

Summary:

Standby Amps x 24 hrs. = Amp hrs.	1.560
Alarm Current x 0.25 hrs = Amp hrs.	0.092
Total Amp Hour Current	1.652
20% Safety Factor	0.330
TOTAL AMP HOUR BATTERY REQUIRED	**1.983**
AH BATTERY PROVIDED	**7.0**

Control Panel Designation: VAB-F

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	AM-50	Voice Evac Audio Booster/Amplifier		0.086	2.206	1	0.086	2.206
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals					**0.086**	**2.206**
Notification Appliance Circuits								
		Speaker Circuit	SF1	0.000	0.290	1	0.000	0.290
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals					**0.000**	**0.290**
		Overall Totals					0.086	2.496

Summary:

Standby Amps x 24 hrs. = Amp hrs.	2.064
Alarm Current x 0.25 hrs = Amp hrs.	0.624
Total Amp Hour Current	2.688
20% Safety Factor	0.538
TOTAL AMP HOUR BATTERY REQUIRED	**3.226**
AH BATTERY PROVIDED	**7.0**

Wattage Summary:

Amplifier Watts	50.0
Watts Used:	7.3
Spare Watts:	42.8

Appliance Circuit Voltage Drop: NF1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V
Minimum Device Voltage: 16 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Voltage Drop from source	Voltage Percent Drop
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NF1 -1	0.022	69	12	2.01	23.94	0.062	0.26%
ELSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NF1 -2	0.022	19	12	2.01	23.92	0.078	0.32%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NF1 -3	0.06	67	12	2.01	23.87	0.126	0.53%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NF1 -4	0.06	43	12	2.01	23.85	0.147	0.61%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NF1 -5	0.06	41	12	2.01	23.84	0.157	0.65%
		Total	**0.224**	**239**			**23.84**	**0.157**	**0.65%**

Summary:

Available Amp on Circuit	3 A	End of Line Voltage	23.84 V
Remaining Amp on Circuit	2.776 A	Total Voltage Drop	0.157 V
Remaining Amp % on Circuit	92.53%	Voltage Drop %	0.77%

Appliance Circuit Voltage Drop: SF1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V
Minimum Device Voltage: 20.4 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Voltage Drop from source	Voltage Percent Drop
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SF1 -1	0.01	69	12	2.01	24.92	0.080	0.32%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SF1 -2	0.01	19	12	2.01	24.90	0.102	0.41%
ET-1010-R (2W)	Speaker, Exterior, 2W	SF1 -3	0.08	39	12	2.01	24.86	0.144	0.58%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SF1 -4	0.01	28	12	2.01	24.83	0.166	0.66%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SF1 -5	0.01	43	12	2.01	24.80	0.197	0.79%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SF1 -6	0.01	41	12	2.01	24.78	0.225	0.90%
ET-1010-R (2W)	Speaker, Exterior, 2W	SF1 -7	0.08	30	12	2.01	24.76	0.244	0.98%
ET-1010-R (2W)	Speaker, Exterior, 2W	SF1 -8	0.08	47	12	2.01	24.74	0.259	1.04%
		Total	**0.290**	**316**			**24.74**	**0.259**	**1.04%**

Summary:

Available Amp on Circuit	2.206 A	End of Line Voltage	24.74 V
Remaining Amp on Circuit	1.916 A	Total Voltage Drop	0.259 V
Remaining Amp % on Circuit	86.85%	Voltage Drop %	1.27%

BLDG F & G

BLDG K

Control Panel Designation: FAPS-K

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	HPF24S6	Remote Power Supply		0.065	0.145	1	0.065	0.145
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
	-			0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals					**0.065**	**0.145**
Notification Appliance Circuits								
		Notification Circuit	NK1	0.000	0.164	1	0.000	0.164
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Notification Circuit	-	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals					**0.000**	**0.164**
		Overall Totals					0.065	0.309

Summary:

Standby Amps x 24 hrs. = Amp hrs.	1.560
Alarm Current x 0.25 hrs = Amp hrs.	0.077
Total Amp Hour Current	1.637
20% Safety Factor	0.327
TOTAL AMP HOUR BATTERY REQUIRED	**1.965**
AH BATTERY PROVIDED	**7.0**

Control Panel Designation: VAB-K

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description	Circuit	Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	AM-50	Voice Evac Audio Booster/Amplifier		0.086	2.206	1	0.086	2.206
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
	-	-		0.000	0.000	0	0.000	0.000
		Control Panel Modules Totals					**0.086**	**2.206**
Notification Appliance Circuits								
		Speaker Circuit	SK1	0.000	0.180	1	0.000	0.180
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Spare Speaker Circuit	-	0.000	0.000	1	0.000	0.000
		Notification Appliance Circuit Totals					**0.000**	**0.180**
		Overall Totals					0.086	2.386

Summary:

Standby Amps x 24 hrs. = Amp hrs.	2.064
Alarm Current x 0.25 hrs = Amp hrs.	0.597
Total Amp Hour Current	2.661
20% Safety Factor	0.532
TOTAL AMP HOUR BATTERY REQUIRED	**3.193**
AH BATTERY PROVIDED	**7.0**

Wattage Summary:

Amplifier Watts	50.0
Watts Used:	4.5
Spare Watts:	45.5

Appliance Circuit Voltage Drop: NK1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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: 24 V
Minimum Device Voltage: 16 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Voltage Drop from source	Voltage Percent Drop
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NK1 -1	0.06	101	12	2.01	23.93	0.067	0.28%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	NK1 -2	0.022	31	12	2.01	23.92	0.080	0.33%
ELSTRC (15cd)	Strobe, Ceiling, 15cd	NK1 -3	0.022	17	12	2.01	23.91	0.085	0.35%
ELSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NK1 -4	0.06	30	12	2.01	23.91	0.092	0.38%
		Total	**0.164**	**179**			**23.91**	**0.092**	**0.38%**

Summary:

Available Amp on Circuit	3 A	End of Line Voltage	23.91 V
Remaining Amp on Circuit	2.836 A	Total Voltage Drop	0.092 V
Remaining Amp % on Circuit	94.53%	Voltage Drop %	0.45%

Appliance Circuit Voltage Drop: SK1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=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 V
Minimum Device Voltage: 20.4 V
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage At Device	Voltage Drop from source	Voltage Percent Drop
ET-1010-R (2W)	Speaker, Exterior, 2W	SK1 -1	0.08	67	12	2.01	24.95	0.048	0.19%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SK1 -2	0.01	34	12	2.01	24.94	0.062	0.25%
ELSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SK1 -3	0.01	78	12	2.01	24.91	0.090	0.36%
ET-1010-R (2W)	Speaker, Exterior, 2W	SK1 -4	0.08	38	12	2.01	24.90	0.103	0.41%
		Total	**0.180**	**217**			**24.90**	**0.103**	**0.41%**

Summary:

Available Amp on Circuit	2.206 A	End of Line Voltage	24.90 V
Remaining Amp on Circuit	2.026 A	Total Voltage Drop	0.103 V
Remaining Amp % on Circuit	91.84%	Voltage Drop %	0.50%

BLDG K

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PROFESSIONAL ENGINEER YIP SHING DONNY LEE No. E 017376 ELECTRICAL STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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FIRE ALARM CALCULATIONS

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET **E3.1.6-2**

10/31/2022 10:24:32 AM C:\Users\amcginn\Documents_Abby\Local Files\1515 Villalovoz Mod_DD_Abigail.McGinn.rvt

(E) PANEL 'LC'

SECTION 1 OF 1 — SERVING: NORMAL — MOUNTING: X FLUSH / SURFACE — LOCATION: — PANEL A.I.C.: 10,000
BUS RATING: 100 AMP — X MAIN BREAKER: 100 AMP — MAIN LUGS ONLY — FED-THRU LUGS — THREE PHASE 4-WIRE — VOLTAGE 208Y/120

LOAD DESCRIPTION	KVA LOAD				C. B.		CKT	PH	CKT	C. B.		KVA LOAD				LOAD DESCRIPTION
	CONT.	RECP.	MOTOR	NON	AMP	POLE	#		#	POLE	AMP	CONT.	RECP.	MOTOR	NON	
LIBR. FLR. REC.					20	1	1	A	2	1	20					CLG. REC.
LIBR. FLR. REC.					20	1	3	B	4	1	20					CLG. REC., IDF
LIBR. FLR. REC.					20	1	5	C	6	1	20					CLG. REC.
CR REC.					20	1	7	A	8	1	20					CLG. REC.
CR REC.					20	1	9	B	10	1	20					CLG. REC.
CR REC.					20	1	11	C	12	1	20					CR REC.
CR REC.					20	1	13	A	14	1	20					CR REC.
CR REC., ALARM					20	1	15	B	16	1	20					CR REC.
CR REC.					20	1	17	C	18	1	20					CIR-PUMP, TIMECLOCK, WATERHEATER
CR REC.					20	1	19	A	20	1	20					SITE LTG. CONTROL
CR REC.					20	1	21	B	22	**1**	**20**				**0.43**	**FAPS-A & VAB-A** (1)(3)
CR REC., ROOM #17					20	1	23	C	24							SPACE
SPACE							25	A	26							SPACE
HONEYWELL					20	1	27	B	28	1	20					ROOF REC.
EF-9					20	1	29	C	30	1	20					COMPUTER
EF-10					20	1	31	A	32	1	20					COMPUTER
SPACE							33	B	34	1	20					COMPUTER
SPACE							35	C	36	1	20					COMPUTER
SPACE							37	A	38							SPACE
EXISTING LOAD					50	2	39	B	40	20	1					EF-8
EXISTING LOAD					-	-	41	C	42	20	1					EF-7
TOTALS ---------->	0.00	0.00	0.00	0.00								0.00	0.00	0.00	0.43	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 0.43 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 0.43 KVA — CONNECTED KVA TOTAL/PHASE: A 0.00, B 0.43, C 0.00 — MINIMUM FEEDER CAPACITY 0.43 KVA 1.20 AMP

(E) PANEL 'LA'

SECTION 1 OF 1 — SERVING: NORMAL — MOUNTING: X FLUSH / SURFACE — LOCATION: — PANEL A.I.C.: 10,000
BUS RATING: 100 AMP — X MAIN BREAKER: 100 AMP — MAIN LUGS ONLY — FED-THRU LUGS — THREE PHASE 4-WIRE — VOLTAGE 208Y/120

LOAD DESCRIPTION	KVA LOAD				C. B.		CKT	PH	CKT	C. B.		KVA LOAD				LOAD DESCRIPTION
	CONT.	RECP.	MOTOR	NON	AMP	POLE	#		#	POLE	AMP	CONT.	RECP.	MOTOR	NON	
LIBRARY FLOOR RECEPTACLE					20	1	1	A	2	1	20					CEILING RECEPTACLE
CR RECEPTACLE RM 10					20	1	3	B	4	1	20					CEILING RECEPTACLE
CR RECEPTACLE					20	1	5	C	6	1	20					EXISTING LOAD
LIBRARY, CONFERENCE CR REC					20	1	7	A	8	1	20					TOILET CR RECEPTACLE
CR RECEPTACLE, ROOM 2					20	1	9	B	10	1	20					CR RECEPTACLE
CONFERENCE, CR RECEPTACLE					20	1	11	C	12	1	20					CR RECEPTACLE
PRINC. REC					20	1	13	A	14	1	20					WORKROOM, NURSE REC.
LIBRARY REC, CR REC.					20	1	15	B	16	1	20					NURSE REC.
NURSE EXHAUST FAN					20	1	17	C	18	1	20					EF 3, 4
EXISTING LOAD					20	1	19	A	20	1	20					EF #5
EXISTING LOAD					20	1	21	B	22	1	20					TOILET FAN EF-1
EXISTING LOAD					20	1	23	C	24	1	20					TOILET FAN EF-2
EXISTING LOAD					20	1	25	A	26	1	20					EXISTING LOAD
MDF A/C UNIT					20	2	27	B	28	1	20					SOUND SYSTEM
-					-	-	29	C	30	1	20					LIGHT CONTROL
SPACE							31	A	32	1	20					EXISTING LOAD
(3) **WAITING A103 MOD. FURN.**		**1.44**			**20**	**1**	33	B	34	1	20					EXISTING LOAD
(1) **FIRE ALARM CONTROL PANEL**				**0.42**	**20**	**1**	35	C	36	1	20					FIRE ALARM
SPARE					100	2	37	A	38	1	20					TV SYSTEM
-					-	-	39	B	40	**1**	**20**				**0.04**	**IACP** (3)
ROOF REC.					20	1	41	C	42	1	20					EXISTING LOAD
TOTALS ---------->	0.00	1.44	0.00	0.42								0.00	0.00	0.00	0.04	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 1.44 KVA
TOTAL NONCONTINUOUS LOAD: 0.46 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 1.90 KVA — CONNECTED KVA TOTAL/PHASE: A 0.00, B 1.48, C 0.42 — MINIMUM FEEDER CAPACITY 1.90 KVA 5.27 AMP

(E) PANEL 'LD'

SECTION 1 OF 1 — SERVING: NORMAL — MOUNTING: X FLUSH / SURFACE — LOCATION: — PANEL A.I.C.: EXISTING
BUS RATING: 125 AMP — X MAIN BREAKER: 125 AMP — MAIN LUGS ONLY — FED-THRU LUGS — THREE PHASE 4-WIRE — VOLTAGE 208Y/120

LOAD DESCRIPTION	KVA LOAD				C. B.		CKT	PH	CKT	C. B.		KVA LOAD				LOAD DESCRIPTION
	CONT.	RECP.	MOTOR	NON	AMP	POLE	#		#	POLE	AMP	CONT.	RECP.	MOTOR	NON	
MP RM RECEPTACLES					20	1	1	A	2	2	50					AC-6 MUSIC RM
MP RM RECEPTACLES					20	1	3	B	4	-	-					-
RECEPTACLE KITCHEN					20	1	5	C	6	1	20					RECEPTACLE KITCHEN
RECEPTACLE KITCHEN					20	1	7	A	8	1	20					RECEPTACLE KITCHEN
RECEPTACLE KITCHEN					20	1	9	B	10	2	20					FLOOR RECEPTACLE KITCHEN
RECEPTACLE KITCHEN					20	1	11	C	12	-	-					RECEPTACLE KITCHEN
ROOF RECEPTACLE					20	1	13	A	14	1	20					TOILET FANS WH FLOE
(1)(2) **FAPS-B & VAB-B**				**0.43**	**20**	**1**	15	B	16	1	20					RECEPTACLE TOILET & MP
IAPS-B				**0.17**	**20**	**1**	17	C	18	1	20					RECEPTACLE KITCHEN
SPARE					**20**	**1**	19	A	20	1	20					BASKETS
GARAGE DISP					20	1	21	B	22	1	20					FLY FANS
RECEPT STORAGE & FAN					20	1	23	C	24	1	20					EXISTING LOAD
KITCHEN RECEPT					20	1	25	A	26	1	20					EXISTING LOAD
KITCHEN RECEPT					20	1	27	B	28	1	20					EXISTING LOAD
KITCHEN RECEPT					20	1	29	C	30	1	20					EXISTING LOAD
TOTALS ---------->	0.00	0.00	0.00	0.61								0.00	0.00	0.00	0.00	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 0.61 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 0.61 KVA — CONNECTED KVA TOTAL/PHASE: A 0.00, B 0.43, C 0.17 — MINIMUM FEEDER CAPACITY 0.61 KVA 1.69 AMP

(E) PANEL 'LB'

SECTION 1 OF 1 — SERVING: NORMAL — MOUNTING: X FLUSH / SURFACE — LOCATION: — PANEL A.I.C.: 10,000
BUS RATING: 50 AMP — X MAIN BREAKER: 50 AMP — MAIN LUGS ONLY — FED-THRU LUGS — THREE PHASE 4-WIRE — VOLTAGE 208Y/120

LOAD DESCRIPTION	KVA LOAD				C. B.		CKT	PH	CKT	C. B.		KVA LOAD				LOAD DESCRIPTION
	CONT.	RECP.	MOTOR	NON	AMP	POLE	#		#	POLE	AMP	CONT.	RECP.	MOTOR	NON	
LIBR. FLR REC					20	1	1	A	2	1	20					CLG. REC.
MEN, CR REC.					20	1	3	B	4	1	20					CLG. REC.
TEA. LIBR. REC.					20	1	5	C	6	1	20					CLG. REC.
DUPLICATING REC.					20	1	7	A	8	1	20					CR REC.
DUPLICATING REC.					20	1	9	B	10	1	20					CR REC.
IDF					20	1	11	C	12	1	20					CR REC, WOMEN REC.
STAFF ROOM PRINTER					20	1	13	A	14	1	20					COPY MACHINE
CR REC.					20	1	15	B	16	1	20					LIB REC. OR REC
CR REC.					20	1	17	C	18	1	20					EXISTING LOAD
(3) **MARQUEE SIGN**					**20**	**1**	19	A	20	1	20					EWC
ENT. HALL A101 MOD FURN		**1.44**			**20**	**1**	21	B	22							SPACE
ENT. HALL A101 RE.		**0.36**			**20**	**1**	23	C	24							SPACE
SPACE							25	A	26							SPACE
SPACE							27	B	28	1	20					ROOF REC.
SPACE							29	C	30	1	20					EF-6
SPACE (LEFT OF MAIN)							-	A	-	-	-					NOT A USABLE SPACE
EXISTING CIRCUIT (LEFT OF MAIN)					25	1	-	B	-	-	-					NOT A USABLE SPACE
EXISTING CIRCUIT (LEFT OF MAIN)					20	1	-	C	-	-	-					NOT A USABLE SPACE
TOTALS ---------->	0.00	1.80	0.00	0.00								0.00	0.00	0.00	0.00	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 1.80 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 1.80 KVA — CONNECTED KVA TOTAL/PHASE: A 0.00, B 1.44, C 0.36 — MINIMUM FEEDER CAPACITY 1.80 KVA 5.00 AMP

PANEL NUMBERED NOTES

(1) CIRCUIT BREAKERS SHALL BE RED IN COLOR W/ HANDLE-LOCK ON "ON" POSITION AND LABEL CIRCUIT BREAKER 'FIRE ALARM CIRCUIT'.

(2) REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW 20A/1P CIRCUIT BREAKERS. MATCH EXISTING AIC RATING.

(3) PROVIDE NEW 20A/1P CIRCUIT BREAKER. MATCH EXISTING AIC RATING.

PANEL SCHEDULE NOTES

1. ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
3. PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX. PANEL INDEX SHALL INCLUDE DATE APPLIED AND ALSO WHERE THE PANEL IS FED FROM.
4. PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
5. UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.

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EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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SCHEDULES

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET E3.1.7-2

10/31/2022 10:24:32 AM C:\Users\amcginn\Documents_Abby\Local Files\1515 Villalovoz Mod_DD_Abigail.McGinn.rvt

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING	TYPE	VOLTS	WATTS	REMARKS
A1	WILLIAMS AT2-2-4-L40/835-D-DIM-UNV	2x4 TROFFER	RECESSED	LED	120-277V	34.2	
A1E	WILLIAMS AT2-2-4-L40/835-D-EM/7W-DIM-UNV	2x4 TROFFER	RECESSED	LED	120-277V	34.2	PROVIDE BATTERY BACKUP.
A2	WILLIAMS AT2-2-4-L40/835-D-NEMA F-DIM-UNV	2X4 TROFFER	RECESSED	LED	120-277V	34.2	PROVIDE RECESSED MOUNT FLANGE KIT.
A2E	WILLIAMS AT2-2-4-L40/835-D-EM/7W-NEMA F-DIM-UNV	2X4 TROFFER	RECESSED	LED	120-277V	34.2	PROVIDE RECESSED MOUNT FLANGE KIT & BATTERY BACKUP
A3	WILLIAMS ATS-2-2-L30/835-D-DIM-UNV	2X2 TROFFER	RECESSED	LED	120-277V	29.5	
A3E	WILLIAMS ATS-2-2-L30/835-D-EM/7W-DIM-UNV	2X2 TROFFER	RECESSED	LED	120-277V	29.5	PROVIDE BATTERY BACKUP.
B1	WILLIAMS MX4S-3'-0"-L12-8-35-F-WS LMFS-601-PP-120/277-DIM-UNV	3' LINEAR	SURFACE	LED	120-277V	32.4	
B2	WILLIAMS MX4S-4'-0"-L12-8-35-F-WS LMFS-601-PP-120/277-DIM-UNV	4' LINEAR	SURFACE	LED	120-277V	43.2	
C	WILLIAMS 50-F-S-1-4-L27/835-S-AF12125-DIM-UNV	1X4 TROFFER	RECESSED	LED	120-277V	20.1	PROVIDE RECESSED MOUNT FLANGE KIT.
D	EMERGI-LITE EFR8R-WH-LV	4" DOWNLIGHT	RECESSED	LED	120-277V	4	
E	WILLIAMS 75R-4'-L30/835--WS-FSP--311-L_-120/277-DIM-UNV	4' STRIP	SURFACE	LED	120-277V	19.7	
F	WILLIAMS MCT-G-2-4-L60/835-AL-S-AF12125-DIM-UNV	2X4 NSF RATED TROFFER	RECESSED	LED	120-277V	46.7	
FE	WILLIAMS MCT-G-2-4-L60/835-AL-S-AF12125-EM/10W-DIM-UNV	2X4 NSF RATED TROFFER	RECESSED	LED	120-277V	46.7	PROVIDE BACKUP BATTERY.
G	WILLIAMS GH-2-L120/835-FA-GH-SMK-WG11-WS-FSP-321B-L-120-480-DIM-UNV	2X4 MODULAR HIGH BAY	SURFACE	LED	120-277V	90.8	PROVIDE SURFACE MOUNT KIT & WIREGUARD.
GE	WILLIAMS GH-2-L120/835-FA-EM/10W-GH-SMK-WG11-WS-FSP-321B-L-120-480-DIM-UNV	2X4 MODULAR HIGH BAY	SURFACE	LED	120-277V	90.8	PROVIDE SURFACE MOUNT KIT, WIREGUARD, AND BATTERY BACKUP.
H	WILLIAMS 14-4-L70/835-F-FG125-DIM-UNV	4X4 SURFACE	SURFACE	LED	120-277V	48	
I	WILLIAMS 12-4-L84/835-F-AF12125-DIM-UNV	2X4 SURFACE	SURFACE	LED	120-277V	62.8	
J	LEVITON 000-09850-LED	LED LAMP	WALL	LED	120V	10	
X1	WILLIAMS EXIT/EM/LP-G-WHT-D	EXIT SIGN	CEILING/WALL	LED	120-277V	4.5	
X2	WILLIAMS EXIT/EM/LP-G-WHT-WG-D	EXIT SIGN	CEILING/WALL	LED	120-277V	4.5	PROVIDE WIREGUARD.

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PROFESSIONAL ENGINEER
No. E 011376
ELECTRICAL
STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460

1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200

Project Number J451 Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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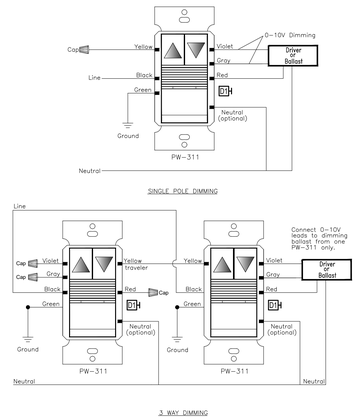
SCHEDULES

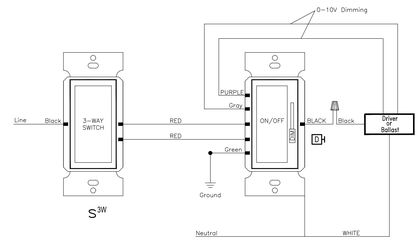
INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET
E3.1.8-2

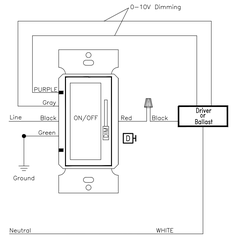
10/31/2022 12:24:32 AM C:\Users\thangen\Documents_Abby\Local Files\1515 Villalovoz Mod_DD_Abigail.McGrorty.rvt



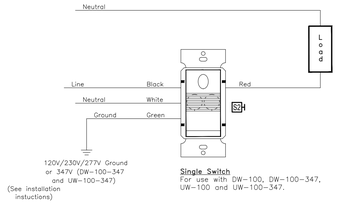
2-2 WATTSTOPPER PW-311 WIRING DIAGRAM
SCALE: NONE



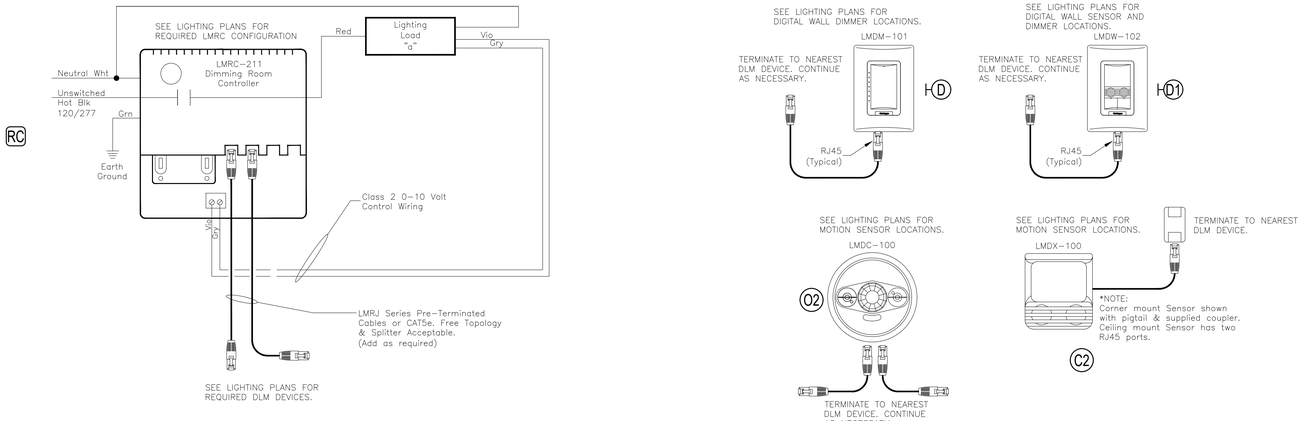
1-2 WATTSTOPPER RH4FBL3P WIRING DIAGRAM 3-WAY
SCALE: NONE



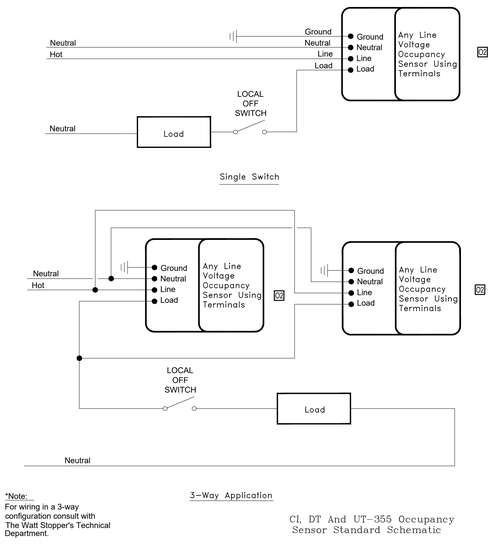
4-2 WATTSTOPPER RH4FBL3P WIRING DIAGRAM
SCALE: NONE



5-2 WATTSTOPPER DW-100 WIRING DIAGRAM
SCALE: NONE



6-2 TYPICAL WIRING DIAGRAM FOR WATTSTOPPER DLM ROOM CONTROLLER W/ DLM CONTROL DEVICE
NO SCALE



*Note:
For wiring in a 3-way configuration consult with The Watt Stopper's Technical Department.

CI, DT And UT-355 Occupancy Sensor Standard Schematic

3-2 WATTSTOPPER #DT-355 WIRING DIAGRAM
SCALE: NONE

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EDGE ELECTRICAL CONSULTING
1801 7th Street
Suite 150
Sacramento, CA 95811
916.256.2460
1151 Harbor Bay Pkwy
Suite 123A
Alameda, CA 94502
510.634.7200
Project Number J451
Contact Thien

VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

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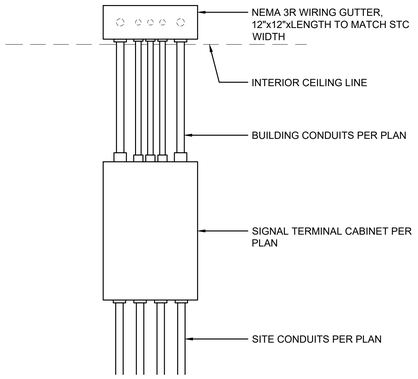
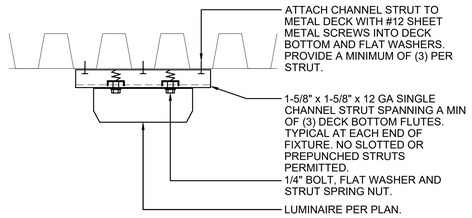
ELECTRICAL DETAILS

INCREMENT #2

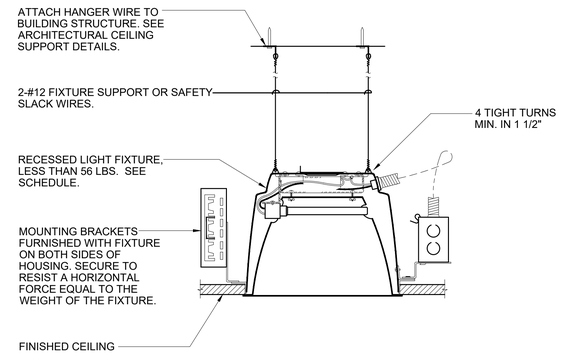
PROJECT NO. 1515
DATE: 11/15/22
SHEET E4.1.1-2



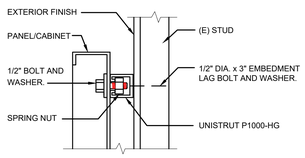
7-2 SIGNAL TERMINAL CABINET AT PORTABLE
SCALE: NONE



4-2 SURFACE FIXTURE AT METAL DECK
SCALE: NONE

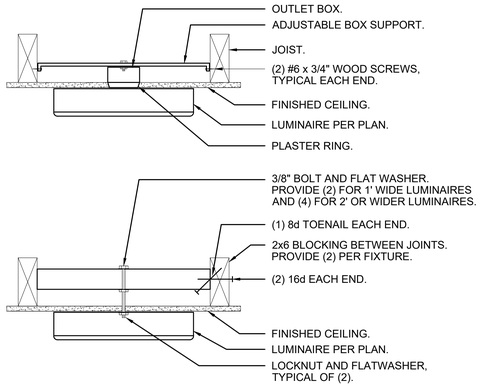


1-2 RECESSED DOWNLIGHT MOUNTING DETAIL
SCALE: NONE

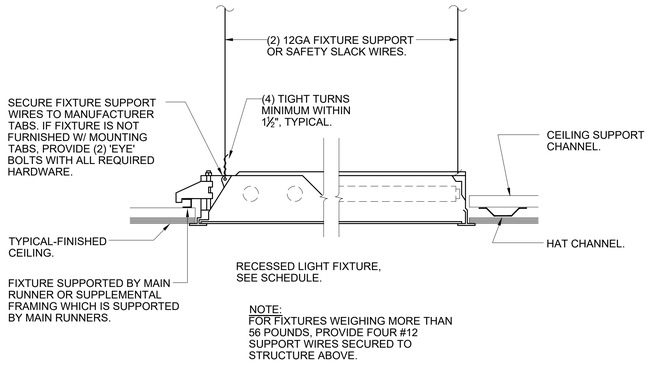


NOTE: MAX PANEL/CABINET WEIGHT IS 300LBS.

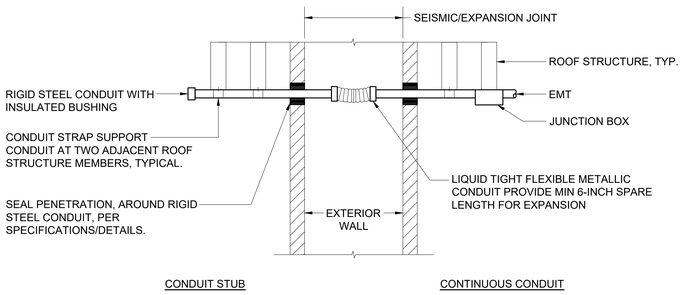
8-2 SURFACE MOUNTED PANEL/CABINET DETAIL
SCALE: NONE



5-2 CEILING SURFACE MOUNTED LUMINAIRE - WOOD JOIST
SCALE: NONE

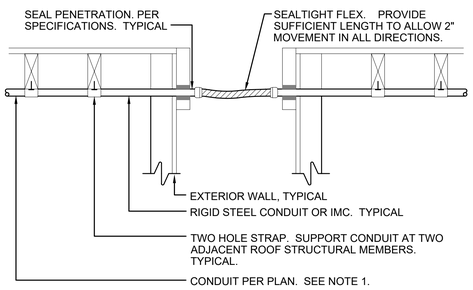


2-2 GYP CEILING RECESSED LIGHT FIXTURE MOUNTING DETAIL
SCALE: NONE



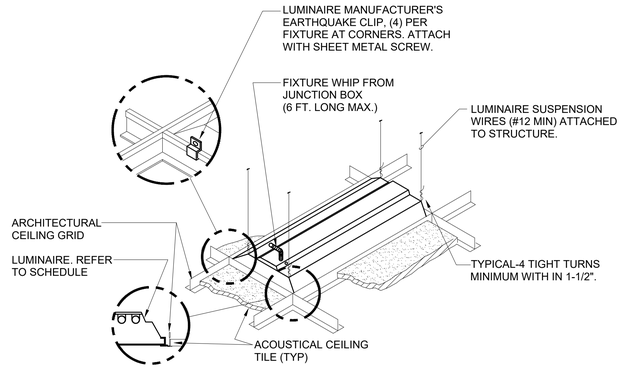
NOTES:
1. PROVIDE AT EACH CONDUIT PASSING THRU SEISMIC SEPARATION/JOINT.

9-2 CONDUIT CROSSING SEISMIC OR EXPANSION JOINTS (WOOD)
SCALE: NONE



NOTES: 1. WHERE CONDUITS ARE SHOWN ON PLAN TO STUB, END CONDUIT 6" PAST SECOND SUPPORT AND PROVIDE BUSHING ON END OF CONDUIT. WHERE CONDUITS CONTINUE, CONVERT TO EMT.

6-2 CONDUITS BETWEEN PORTABLES DETAIL
SCALE: NONE



NOTE:
FOR FIXTURES WEIGHING MORE THAN 56 POUNDS, PROVIDE FOUR #12 SUPPORT WIRES SECURED TO STRUCTURE.

3-2 LIGHT FIXTURE MOUNTING DETAIL - LAY-IN CEILING
SCALE: NONE

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PROFESSIONAL ENGINEER — No. E 017376 — ELECTRICAL — STATE OF CALIFORNIA
12/19/2022

EDGE ELECTRICAL CONSULTING
1801 7th Street, Suite 150, Sacramento, CA 95811, 916.256.2460
1151 Harbor Bay Pkwy, Suite 123A, Alameda, CA 94502, 510.634.7200
Project Number J451 Contact Thien

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

△

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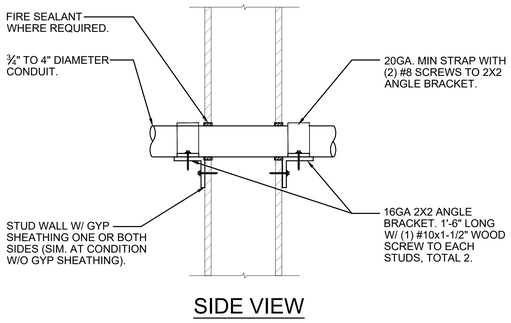
ELECTRICAL DETAILS

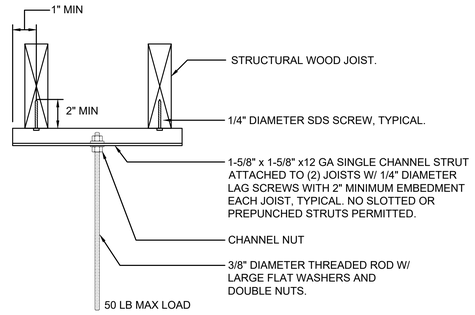
INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
SHEET
E4.1.2-2

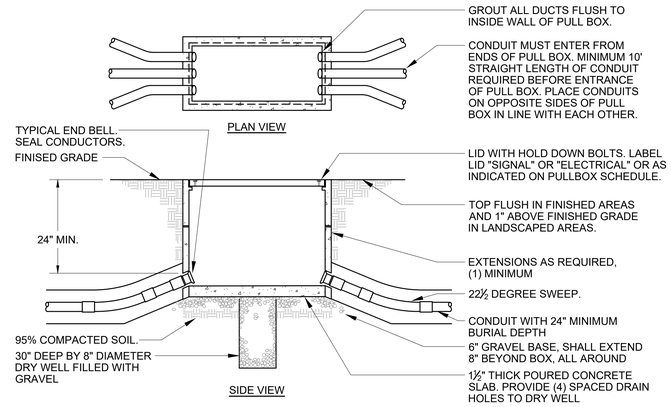
10/31/2022 10:24:32 AM C:\Users\amcgirr\Documents_ARchiCAD Files\1515 Villalovoz Med_DD_RdgeMcGirr.pln



7-2 CONDUIT THRU WALL DETAIL
SCALE: NONE



4-2 THREADED ROD TO WOOD STRUCTURE DETAIL #1
SCALE: NONE



NOTES:

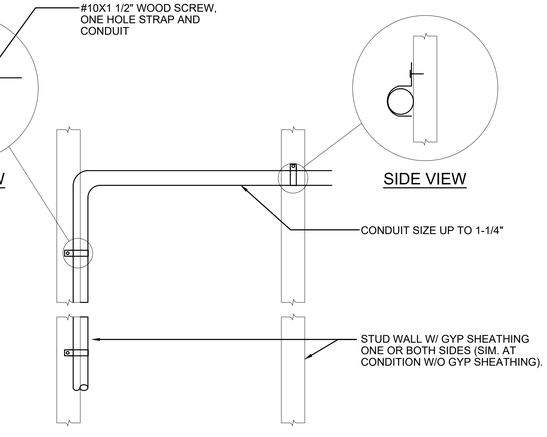
1. PROVIDE CONCRETE LID AT ASPHALT OR CONCRETE WALKWAY. PROVIDE GALVANIZED STEEL CHECKER PLATE LID AT ALL OTHER NON-VEHICULAR AREAS.
2. AT VEHICULAR TRAFFIC AREAS, PULLBOXES, EXTENSIONS AND LIDS SHALL BE TRAFFIC (H20) RATED. SLAB SHALL BE REINFORCED CONCRETE.

1-2 PULLBOX DETAIL
SCALE: NONE

8-2 CONDUIT SUPPORT MEMBRANE PENETRATION DETAIL
SCALE: NONE

5-2 THREADED ROD TO WOOD STRUCTURE DETAIL #2
SCALE: NONE

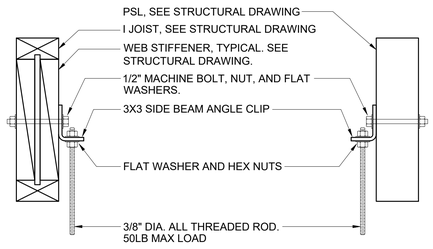
2-2 CONCRETE REPAIR DETAIL
SCALE: NONE



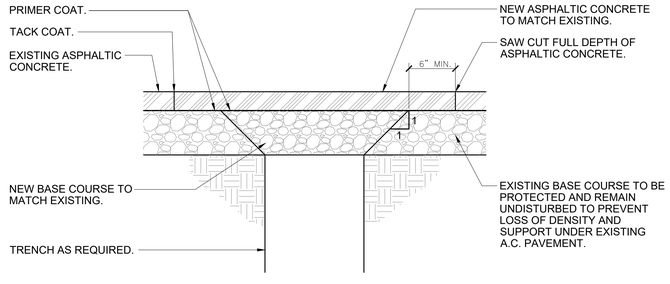
NOTES:

1. SUPPORTS AT 8'-0" O.C., MAX.

9-2 ONE HOLE STRAP CONDUIT DETAIL
SCALE: NONE



6-2 THREADED ROD TO WOOD STRUCTURE DETAIL #3
SCALE: NONE



NOTES:

1. PROVIDE SEAL COAT OVER NEW WORK AND EXTEND A MINIMUM OF 12" OVER EXISTING ASPHALT.

3-2 ASPHALTIC CONCRETE REPAIR DETAIL
SCALE: NONE

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PROFESSIONAL ENGINEER REGISTERED ELECTRICAL No. E 017376 ELECTRICAL STATE OF CALIFORNIA
12/19/2022

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VILLALOVOZ ELEMENTARY SCHOOL - INCREMENT #2

TRACY UNIFIED SCHOOL DISTRICT
TRACY, CA

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ELECTRICAL DETAILS

INCREMENT #2

PROJECT NO. 1515
DATE: 11/15/22
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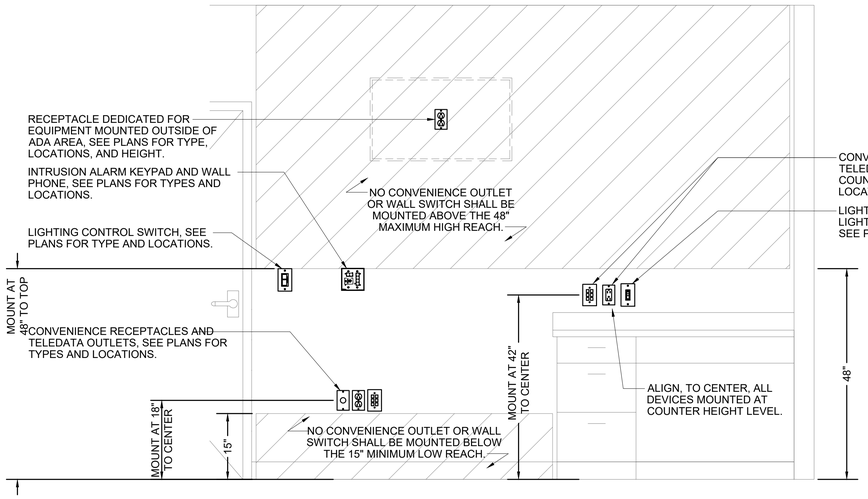
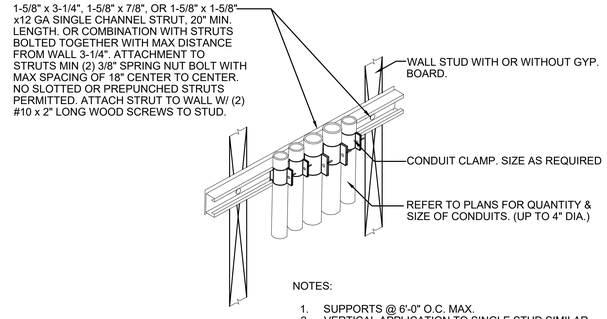


NOTES:

1. CONVENIENCE RECEPTACLE, TELEDATA OUTLET, AND LIGHTING CONTROL SWITCHES SHALL BE WITHIN ADA REACH. BOTTOM OF DEVICE SHALL NOT BE LOWER THAN 15" AFF. TOP OF DEVICE SHALL NOT BE HIGHER THAN 48" AFF.
2. NURSE CALL DEVICES, CONVENIENCE RECEPTACLES, TELEDATA OUTLETS, AND LIGHTING CONTROL DEVICES MOUNTED ABOVE COUNTER, SINK, OR OTHER OBSTRUCTION SHALL HAVE TOP OF THE OPERABLE PARTS NOT EXCEEDING 44", 46", OR 48" PER CBC 11B-308.2.2 OR 11B-308.3.2.

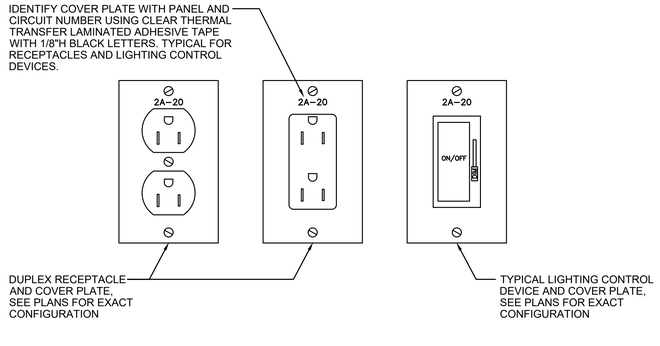
4-2 DEVICE MOUNTING DETAIL
SCALE: NONE



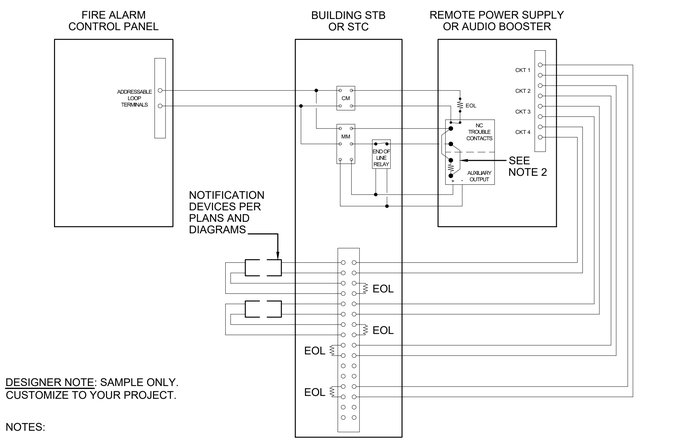
NOTES:

1. SUPPORTS @ 6'-0" O.C. MAX.
2. VERTICAL APPLICATION TO SINGLE STUD SIMILAR. STRUT TO BE 4" LONG MIN.

1-2 CONDUIT SUPPORT DETAIL
SCALE: NONE



5-2 RECEPTACLE AND LIGHT SWITCH DESIGNATION DETAIL
SCALE: NONE

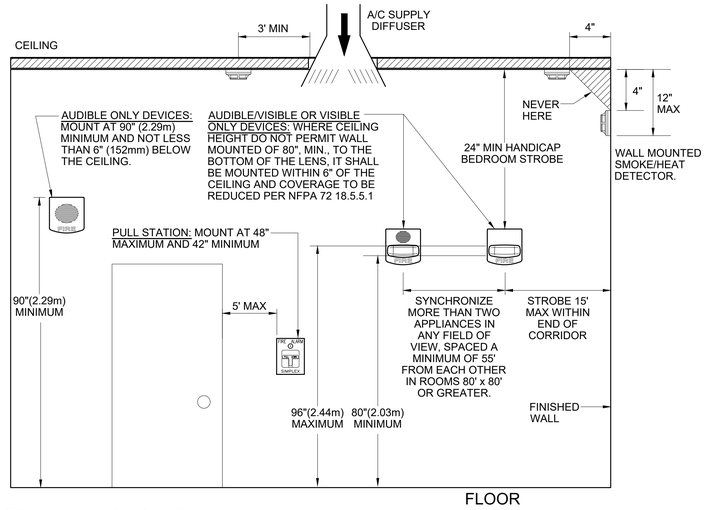


DESIGNER NOTE: SAMPLE ONLY. CUSTOMIZE TO YOUR PROJECT.

NOTES:

1. CONNECTIONS SHOWN ON THIS DIAGRAM ARE GENERAL IN NATURE. CONTRACTOR SHALL MAKE CONNECTIONS AT EACH DEVICE PER MANUFACTURER'S INSTRUCTIONS AND WIRING DIAGRAMS.
2. PROVIDE JUMPERS BETWEEN INPUT 1 AND INPUT 2 PER MANUFACTURER'S DIAGRAMS SUCH THAT ALL FOUR OUTPUTS OPERATE SIMULTANEOUSLY (CONNECT TO DEACTIVATE AUDIBLE SILENCE FEATURE).
3. PROVIDE MONITOR MODULE, CONTROL MODULE AND END OF LINE RELAY AT EACH FA POWER SUPPLY.

2-2 FA POWER SUPPLY/AUDIO BOOSTER WIRING DIAGRAM
NO SCALE



3-2 FIRE ALARM DEVICE ELEVATIONS
NO SCALE

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ELECTRICAL DETAILS

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