aedis
architects

10/13/2019

Subject: **Scotten Elementary School Modernization**
Grass Valley School District
Project No. 2018045

DSA File No. 29-11
DSA Application No. 02-117268

ADDENDUM NO. #1

(40 Pages Faxed / Emailed Including Attachments)

CHANGES AND/OR CLARIFICATION'S OF THE DRAWINGS AND SPECIFICATIONS AS FOLLOWS:

DRAWINGS

ARCHITECTURAL
DRAWINGS

ITEM NO. 1.1:	DRAWINGS – SHEET : A0.01
	Revise: Remove and replace with AD1-A0.01
ITEM NO. 1.2:	DRAWINGS – SHEET : A0.03
	Revise: Remove and replace with AD1-A0.03
ITEM NO. 1.3:	DRAWINGS – SHEET : A1.01
	Revise: Remove and replace with AD1-A1.01
ITEM NO. 1.4:	DRAWINGS – SHEET : A1.01a
	Revise: Remove and replace with AD1-A1.01a
ITEM NO. 1.5:	DRAWINGS – SHEET : A1.02
	Revise: Remove and replace with AD1-A1.02
ITEM NO. 1.6:	DRAWINGS – SHEET : A1.03
	Revise: Remove and replace with AD1-A1.03
ITEM NO. 1.7:	DRAWINGS – SHEET : A2.11
	Revise: Remove and replace with AD1-A2.11
ITEM NO. 1.8:	DRAWINGS – SHEET : A2.21
	Revise: Remove and replace with AD1-A2.21
ITEM NO. 1.9:	DRAWINGS – SHEET : A2.31
	Revise: Remove and replace with AD1-A2.31
ITEM NO. 1.10:	DRAWINGS – SHEET : A3.11
	Revise: Remove and replace with AD1-A3.11
ITEM NO. 1.11:	DRAWINGS – SHEET : A3.21
	Revise: Remove and replace with AD1-A3.21
ITEM NO. 1.12:	DRAWINGS – SHEET : A3.31
	Revise: Remove and replace with AD1-A3.31
ITEM NO. 1.13:	DRAWINGS – SHEET : A3.41
	Revise: Remove and replace with AD1-A3.41

ITEM NO. 1.14: DRAWINGS – SHEET : A3.52
Revise: Remove and replace with AD1-A3.52

ITEM NO. 1.15: DRAWINGS – SHEET : A4.11
Revise: Remove and replace with AD1-A4.11

ITEM NO. 1.16: DRAWINGS – SHEET : A4.21
Revise: Remove and replace with AD1-A4.21

ITEM NO. 1.17: DRAWINGS – SHEET : A4.31
Revise: Remove and replace with AD1-A4.31

ITEM NO. 1.18: DRAWINGS – SHEET : A6.31
Revise: Remove and replace with AD1-A6.31

ITEM NO. 1.19: DRAWINGS – SHEET : A6.32
Revise: Remove and replace with AD1-A6.32

ITEM NO. 1.20: DRAWINGS – SHEET : A10.01
Revise: Remove and replace with AD1-A10.01

ITEM NO. 1.21: DRAWINGS – SHEET : A12.21
Revise: Remove and replace with AD1-A12.21

ITEM NO. 1.22: DRAWINGS – SHEET : A12.31
Revise: Remove and replace with AD1-A12.31

ITEM NO. 1.23: DRAWINGS – SHEET : A12.32
Revise: Remove and replace with AD1-A12.32

PLUMBING
DRAWINGS

ITEM NO. 1.24: DRAWINGS – SHEET : P0.01
Revise: Remove and replace with AD1-P0.01

ITEM NO. 1.25: DRAWINGS – SHEET : P3.31
Revise: Remove and replace with AD1-P3.31

ITEM NO. 1.26: DRAWINGS – SHEET : P6.51
Revise: Remove and replace with AD1-P6.51

ELECTRICAL
DRAWINGS

ITEM NO. 1.27: DRAWINGS – SHEET : E0.01
Revise: Remove and replace with AD1-E0.01

ITEM NO. 1.28: DRAWINGS – SHEET : E0.03
Revise: Remove and replace with AD1-E0.03

ITEM NO. 1.29: DRAWINGS – SHEET : E1.02
Revise: Remove and replace with AD1-E1.02

ITEM NO. 1.30: DRAWINGS – SHEET : E2.31
Revise: Remove and replace with AD1-E2.31

ITEM NO. 1.31: DRAWINGS – SHEET : E2.32
Revise: Remove and replace with AD1-E2.32

ITEM NO. 1.32: DRAWINGS – SHEET : E3.31
Revise: Remove and replace with AD1-E3.31

ITEM NO. 1.33: DRAWINGS – SHEET : E3.32
Revise: Remove and replace with AD1-E3.32

ITEM NO. 1.34:	DRAWINGS – SHEET : E3.33
	Revise: Remove and replace with AD1-E3.33
ITEM NO. 1.35:	DRAWINGS – SHEET : E4.01
	Revise: Remove and replace with AD1-E4.01
ITEM NO. 1.36:	DRAWINGS – SHEET : E4.11
	Revise: Remove and replace with AD1-E4.11
ITEM NO. 1.37:	DRAWINGS – SHEET : E6.01
	Revise: Remove and replace with AD1-E6.01

Aedis Architects

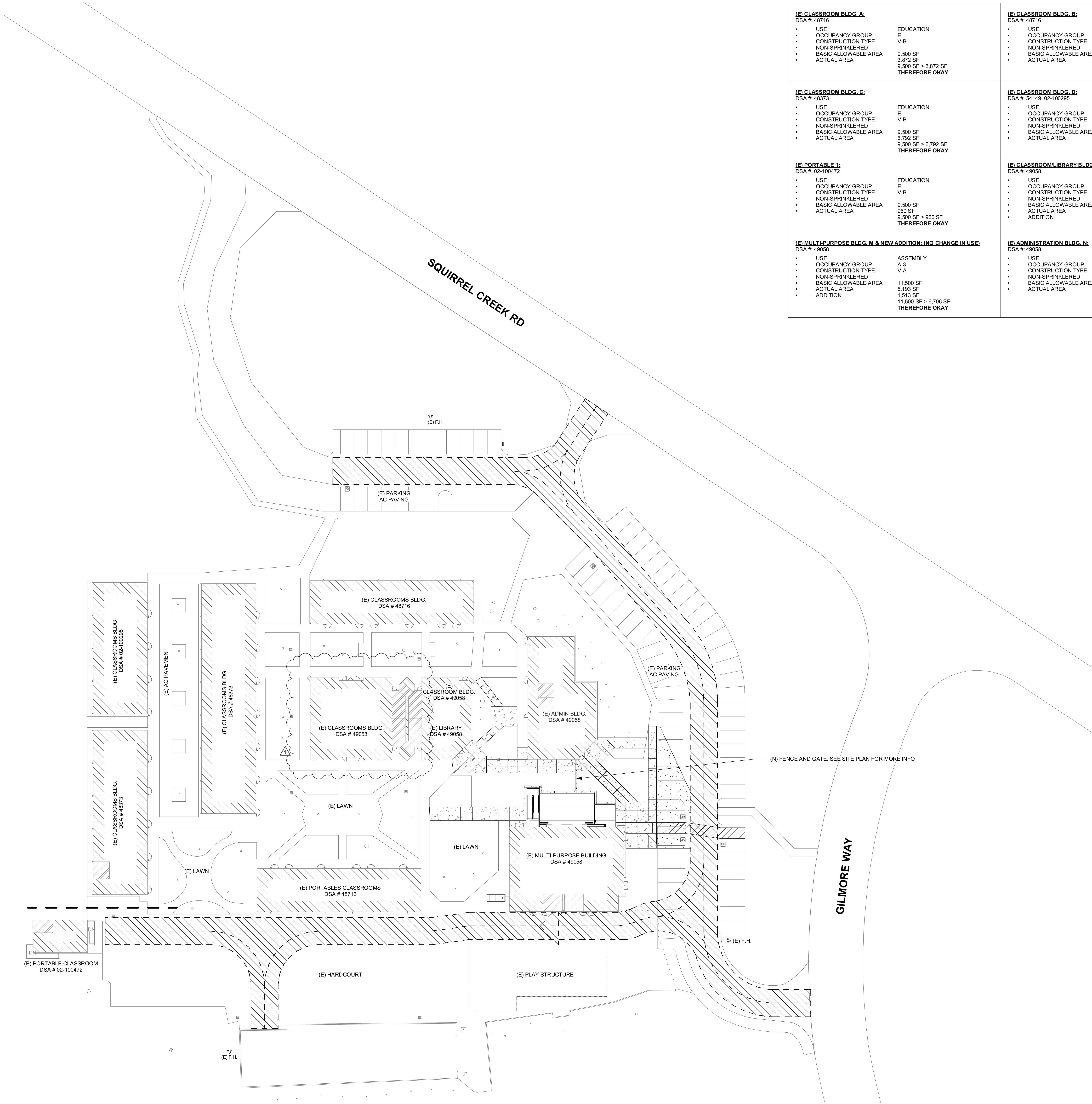
Electrical Engineer

Mechanical Engineer

Division of the State Architect

Attachment:

AD1-A0.01	AD1-A3.52	AD1-E0.01
AD1-A0.03	AD1-A4.11	AD1-E0.03
AD1-A1.01	AD1-A4.21	AD1-E1.02
AD1-A1.01a	AD1-A4.31	AD1-E2.31
AD1-A1.02	AD1-A6.31	AD1-E2.32
AD1-A1.03	AD1-A6.32	AD1-E3.31
AD1-A2.11	AD1-A10.01	AD1-E3.32
AD1-A2.21	AD1-A12.21	AD1-E3.33
AD1-A2.31	AD1-A12.31	AD1-E4.01
AD1-A3.11	AD1-A12.32	AD1-E4.11
AD1-A3.21	AD1-P0.01	AD1-E6.01
AD1-A3.31	AD1-P3.31	
AD1-A3.41	AD1-P6.51	



1 FIRE DEPARTMENT ACCESS PLAN

SCALE: 1" = 30'-0"

CAMPUS CODE ANALYSIS

(E) CLASSROOM BLDG. A: DSA #: 48716 • USE — EDUCATION • OCCUPANCY GROUP — E • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,500 SF • ACTUAL AREA — 3,872 SF 9,500 SF > 3,872 SF **THEREFORE OKAY**	**(E) CLASSROOM BLDG. B:** DSA #: 48716 • USE — EDUCATION • OCCUPANCY GROUP — E • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,500 SF • ACTUAL AREA — 3,872 SF 9,500 SF > 3,872 SF **THEREFORE OKAY**
(E) CLASSROOM BLDG. C: DSA #: 48373 • USE — EDUCATION • OCCUPANCY GROUP — E • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,500 SF • ACTUAL AREA — 6,792 SF 9,500 SF > 6,792 SF **THEREFORE OKAY**	**(E) CLASSROOM BLDG. D:** DSA #: 54149, 02-100295 • USE — EDUCATION • OCCUPANCY GROUP — E • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,500 SF • ACTUAL AREA — 8,710 SF 9,500 SF > 8,710 SF **THEREFORE OKAY**
(E) PORTABLE 1: DSA #: 02-100472 • USE — EDUCATION • OCCUPANCY GROUP — E • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,500 SF • ACTUAL AREA — 960 SF 9,500 SF > 960 SF **THEREFORE OKAY**	**(E) CLASSROOM/LIBRARY BLDG. L & NEW ADDITION: (NO CHANGE IN USE)** DSA #: 49058 • USE — EDUCATION • OCCUPANCY GROUP — A-3 / E • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,500 SF • ACTUAL AREA — 6,695 SF • ADDITION — 664 SF 9,500 SF > 7,395 SF **THEREFORE OKAY**
(E) MULTI-PURPOSE BLDG. M & NEW ADDITION: (NO CHANGE IN USE) DSA #: 49058 • USE — ASSEMBLY • OCCUPANCY GROUP — A-3 • CONSTRUCTION TYPE — V-A • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 11,500 SF • ACTUAL AREA — 5,193 SF • ADDITION — 1,513 SF 11,500 SF > 6,706 SF **THEREFORE OKAY**	**(E) ADMINISTRATION BLDG. N:** DSA #: 49058 • USE — ADMINISTRATION • OCCUPANCY GROUP — B • CONSTRUCTION TYPE — V-B • NON-SPRINKLERED • BASIC ALLOWABLE AREA — 9,000 SF • ACTUAL AREA — 3,889 SF 9,000 SF > 3,889 SF **THEREFORE OKAY**

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	GRASS VALLEY SCHOOL DISTRICT
Project Name/School:	MARGARET SCOTTEN ES MODERNIZATION 2019
Project Address:	10821 SQUIRREL CREEK ROAD, GRASS VALLEY, CA 95945

LOCAL FIRE AUTHORITY (LFA)	
LFA Agency Name:	
LFA Reviewer Name:	Title:
Work Email:	Work Telephone Number:

I have reviewed and responded to the applicable items for this project as listed below.

Note: *Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.*

LFA Reviewer's Signature: ______________________ **Date:** __________

Review Key: **"Y"** = Complies with LFA requirements **"N"** = Not approved (complete Section 8) **"NA"** = Not applicable to the project **"NR"** = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.				
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.				
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).				
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means. **Signature of School District Official:** ______________ **Date:** ________ **Print the School District Official's Name:** ______________				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.				
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.				
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☐ No Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 01-24-18) Page 1 of 1

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

GRAPHIC KEY

- NEW BUILDING ADDITION.
- NEW TOILET ROOM ADDITION.
- EXISTING TOILET ROOMS TO BE MODERNIZED.
- EXISTING BUILDING TO REMAIN
- FIRE ACCESS LANE
- (N) ORNAMENTAL FENCE
- PROPERTY LINE
- DA — D.A. PATH OF TRAVEL
  D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- (E) F.H. — EXISTING FIRE HYDRANT

aedis architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT NO. C-25840 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

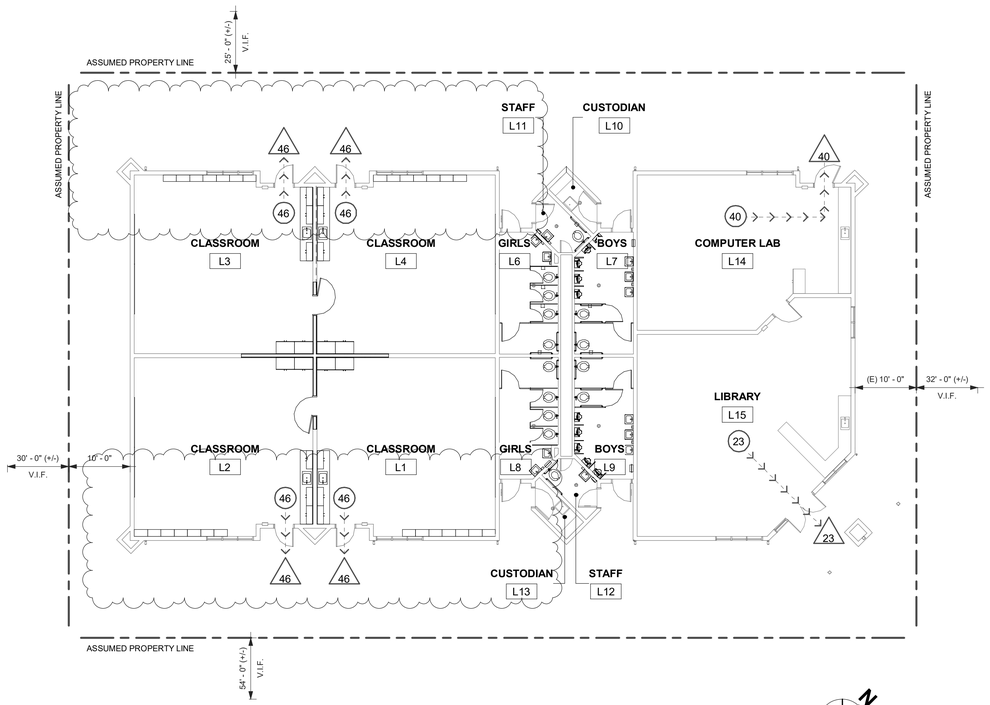
SHEET

FIRE DEPARTMENT ACCESS PLAN

DATE 05/09/2019

JOB # 2018045

SHEET # A0.01



2 CODE ANALYSIS - BUILDING L
SCALE: 1" = 10'-0"

BUILDING L CODE ANALYSIS (PER 2016 C.B.C.)

BUILDING CONSTRUCTION TYPE

TYPE V-B	REQ. FIRE RESISTANCE RATING (PER CBC TABLE 601)
PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
EXTERIOR NON-BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOORS & FLOOR CEILINGS	0 HR
ROOFS & ROOF CEILINGS	0 HR

BUILDING AREA ANALYSIS

OCCUPANCY	BASIC ALLOWABLE AREA	ACTUAL FLOOR AREA	FRONTAGE INCREASE (SEC. 506.3)	TOTAL ALLOWABLE AREA* (SEC. 506.2.4)	TOTAL AREA RATIO	CONCLUSION
A-3 / E	A-3 = 11,500 SF E = 9,500 SF	A-3 1,133 SF E 5,562 SF TOTAL (5,562 SF + 1,133 SF) = 6,695 SF	n/a	A-3 = 11,500 SF E = 9,500 SF	(1,133 SF / 11,500 SF) = 0.098 (5,562 SF / 9500 SF) = 0.585 (0.098 + 0.585) = 0.683	0.683 < 1 = OK

*NOTE: 'W' VALUE IS CALCULATED PER C.B.C. 506.3

EXITING ANALYSIS

ROOM NUMBER	NAME	OCCUPANCY GROUP	AREA	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD
L1	CLASSROOM	E	833 SF	20	46
L1A	RR	--	Not Placed	0	0
L2	CLASSROOM	E	833 SF	20	46
L2A	RR	--	Not Placed	0	0
L3	CLASSROOM	E	832 SF	20	46
L3A	RR	--	Not Placed	0	0
L4	CLASSROOM	E	832 SF	20	46
L4A	RR	--	Not Placed	0	0
L6	GIRLS	--	180 SF	0	0
L7	BOYS	--	182 SF	0	0
L8	GIRLS	--	180 SF	0	0
L9	BOYS	--	182 SF	0	0
L10	CUSTODIAN	--	36 SF	0	0
L11	STAFF	--	51 SF	0	0
L12	STAFF	--	51 SF	0	0
L13	CUSTODIAN	--	36 SF	0	0
L14	COMPUTER LAB	E	794 SF	20	40
L15	LIBRARY	A-3	1133 SF	50	23

DSA 403-A

2016 ENERGY CODE – CERTIFICATES OF COMPLIANCE CHECKLIST

DSA 403-A

2016 ENERGY CODE – CERTIFICATES OF COMPLIANCE CHECKLIST

PRESCRIPTIVE METHOD
(for Performance Method, use Form DSA 403-B)

Energy Forms and Worksheets to be included in Title 24 Report and Plans
Check the appropriate boxes for all required forms included in this DSA submittal
Key: R = Report Required P = Copy of Form Required on Plans

DESIGN REVIEW	R	☐			NRCC-CXR-01-E Cx Design Review Kickoff
	R	☐			NRCC-CXR-02-E Cx Construction Documents – General
	R	☐			NRCC-CXR-03-E Cx Construction Documents – Simple HVAC
	R	☐			NRCC-CXR-04-E Cx Construction Documents – Complex HVAC
	R	☐			NRCC-CXR-05-E Cx Design Review Signature Page
ENVELOPE	R	☒	P	☒	NRCC-ENV-01-E Envelope Component Approach
	R	☐			NRCC-ENV-02-E Fenestration Component Approach
	R	☐			NRCC-ENV-03-E Solar Reflective Index (SRI) Calculation Worksheet
	R	☐			NRCC-ENV-04-E Envelope - Daylit Zone Worksheet
	R	☐			NRCC-ENV-05-E Fenestration Certificate Label
	R	☐			NRCC-ENV-06-E Area Weighted Average Calculations Worksheet
MECHANICAL	R	☒	P	☒	NRCC-MCH-01-E Mechanical Systems
	R	☒			NRCC-MCH-02-E HVAC System Requirements
	R	☒			NRCC-MCH-03-E Mechanical Ventilation and Reheat
	R	☐			NRCC-MCH-06-E Maximum Cycles of Concentration Worksheet
	R	☒	P	☒	NRCC-MCH-07-E Fan Power Consumption
	R	☒	P	☒	NRCC-MCH-04-E Required Acceptance Tests
	R	☒	P	☒	NRCC-MCH-05-E Requirements for Packaged Single Zone Units
INDOOR LIGHTING	R	☐	P	☐	NRCC-LTI-01-E Indoor Lighting
	R	☐	P	☐	NRCC-LTI-02-E Indoor Lighting Controls
	R	☐			NRCC-LTI-03-E Indoor Lighting Power Allowance
	R	☐			NRCC-LTI-04-E Tailored Method
	R	☐			NRCC-LTI-05-E Line-Voltage Track Lighting Worksheet
	R	☐			NRCC-LTI-06-E Indoor Lighting Existing Conditions
OUTDOOR LIGHTING	R	☐	P	☐	NRCC-LTO-01-E Outdoor Lighting
	R	☐	P	☐	NRCC-LTO-02-E Outdoor Lighting Control
	R	☐			NRCC-LTO-03-E Outdoor Lighting Power Allowance
	R	☐			NRCC-LTO-04-E Outdoor Lighting Existing Conditions
SOLAR	R	☐			NRCC-SRA-01-E Solar Ready Areas
	R	☐			NRCC-SRA-02-E Minimum Solar Zone Area Worksheet
	R	☐			NRCC-STH-01-E OG 100 Solar Water Heating Worksheet

DSA 403-A (rev 03-03-17) Page 1 of 2
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

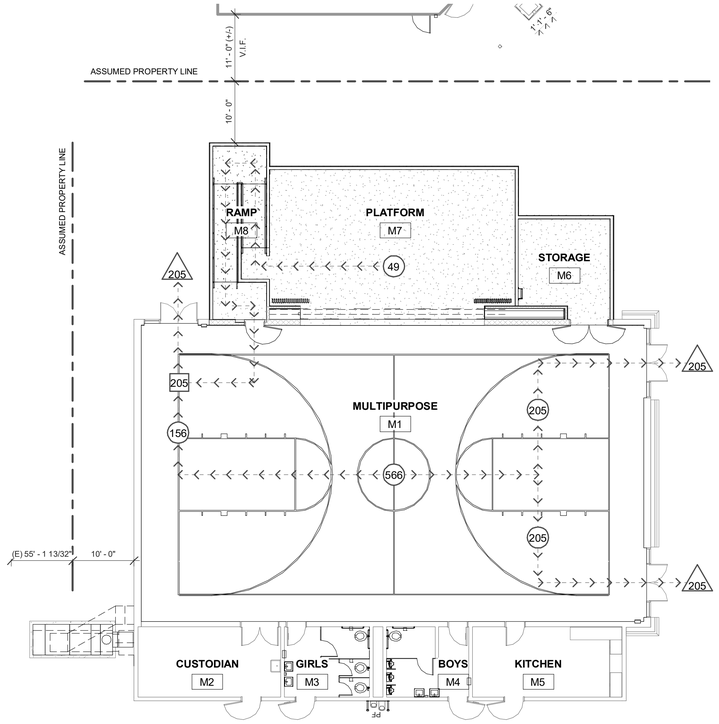
Energy Forms and Worksheets to be included in Title 24 Report and Plans
Check the appropriate boxes for all required forms included in this DSA submittal
Key: R = Report Required P = Copy of Form Required on Plans

SIGN LIGHTING	R	☐	P	☐	NRCC-LTS-01-E Sign Lighting
COVERED PROCESSES	R	☐	P	☐	NRCC-PRC-01-E Process Compliance Forms and Worksheets
	R	☐			NRCC-PRC-02-E Garage Exhaust
	R	☐			NRCC-PRC-03-E Commercial Kitchen Requirements
	R	☐			NRCC-PRC-04-E Computer Room Requirements
	R	☐			NRCC-PRC-05-E Commercial Refrigeration
	R	☐			NRCC-PRC-06-E Refrigerated Warehouse
	R	☐			NRCC-PRC-07-E Refrigerated Warehouse ≥ 3,000 sq. ft.
	R	☐			NRCC-PRC-08-E Refrigerated Warehouses ≥ 3,000 sq. ft. served by same refrigeration system
	R	☐			NRCC-PRC-09-E Laboratory Exhaust
	R	☐			NRCC-PRC-10-E Compressed Air System
	R	☐			NRCC-PRC-11-E Process Boiler Requirements
	R	☐			NRCC=PRC-12-E Elevator Lighting and Ventilation Controls
	R	☐			NRCC-PRC-13-E Escalators and Moving Walkways Speed Controls
ELECTRICAL	R	☐	P	☐	NRCC-ELC-01-E Electrical Power Distribution
PLUMBING	R	☐	P	☐	NRCC-PLB-01-E Water Heating Systems

As Professional in General Responsible Charge, I declare that I have reviewed this project plans submittal and affirm that the project plans are in compliance with the requirements of the current Energy Code (Title 24, Part 6), and the documents checked on pages 1 and 2 of this form are included in the project submittal. I further acknowledge that upon installation of equipment and material identified on compliance forms, I will ensure that the appropriate tests are conducted and the associated acceptance forms (see http://www.energy.ca.gov/title24/2016standards/nonresidential_manual.html) are completed, signed, and submitted and that the project construction complies with Energy Efficiency Regulations.

Sean R. Tichenor		01/11/19
Print Name	**Signature**	**Date**

DSA 403-A (rev 03-03-17) Page 2 of 2
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA



1 CODE ANALYSIS - BUILDING M
SCALE: 1" = 10'-0"

BUILDING M CODE ANALYSIS (PER 2016 C.B.C.)

BUILDING CONSTRUCTION TYPE

TYPE V-A	REQ. FIRE RESISTANCE RATING (PER CBC TABLE 601)
PRIMARY STRUCTURAL FRAME	1 HR
EXTERIOR BEARING WALLS	1 HR
INTERIOR BEARING WALLS	1 HR
EXTERIOR NON-BEARING WALLS	1 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOORS & FLOOR CEILINGS	1 HR
ROOFS & ROOF CEILINGS	1 HR

REQUIRED OCCUPANCY SEPARATION

PER TABLE 508.4, NO OCCUPANCY SEPARATION IS REQUIRED BETWEEN E AND A-2 OCCUPANCIES

BUILDING HEIGHT ANALYSIS

PER SEC. 506.5.2, EACH STORY SHALL INDIVIDUALLY COMPLY WITH THE REQUIREMENTS.
BUILDING OCCUPANCY A-3

TOTAL HEIGHT: 25'-0"
STORY 1 STORY

ALLOWABLE HEIGHT: 50'-0", 2 STORY
= 25'-0" < 50'-0" THEREFORE OK

BUILDING AREA ANALYSIS

OCCUPANCY	BASIC ALLOWABLE AREA	ACTUAL FLOOR AREA	FRONTAGE INCREASE (SEC. 506.3)	TOTAL ALLOWABLE AREA* (SEC. 506.2.4)	TOTAL AREA RATIO	CONCLUSION
A-3	11,500 SF	(5,193 SF + 1,513 SF) = 6,706 SF	n/a	11,500 SF	(6,706 SF/ 11,500 SF) = 0.58	0.58 < 1 = OK

*NOTE: 'W' VALUE IS CALCULATED PER C.B.C. 506.3

EXITING ANALYSIS

ROOM NUMBER	NAME	OCCUPANCY GROUP	AREA	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD
M1	MULTIPURPOSE	A-3	3958 SF	7	566
M2	CUSTODIAN	--	267 SF	0	0
M3	GIRLS	--	159 SF	0	0
M4	BOYS	--	151 SF	0	0
M5	KITCHEN	--	280 SF	0	0
M6	STORAGE	--	238 SF	0	0
M7	PLATFORM	A-3	978 SF	20	49
M8	RAMP	--	242 SF	0	0

ASSISTIVE LISTENING SYSTEM ANALYSIS

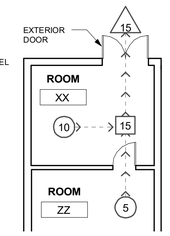
TOTAL OCCUPANT LOAD	RECEIVERS REQ. (MIN)	RECEIVERS PROV.
566	(566 x 0.04) = 23	23

*NOTE: CALCULATIONS PER C.B.C 11B-219

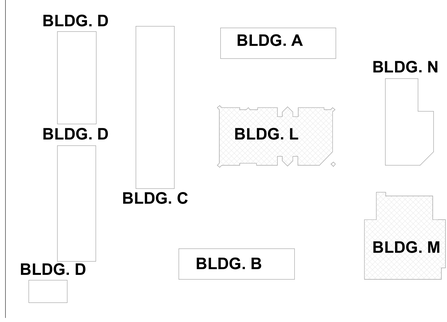
GRAPHIC KEY

- PROPERTY LINE
- ASSUMED PROPERTY LINE
- (N) ORNAMENTAL FENCE
- (N) CHAIN LINK FENCE
- (E) CHAIN LINK FENCE
- EXIT ANALYSIS PATH OF TRAVEL
- OCCUPANT LOAD (XX)
- COMBINED OCCUPANT LOAD (XX)
- TOTAL OCCUPANT LOAD (XX)

WALL TYPES
- (E) WALL TO REMAIN
- (N) PARTITION



BUILDING KEY



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fax: (408)-300-5121

PROJECT

MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN D. DITTENBER III NO. C-25840 RENEWAL 07/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

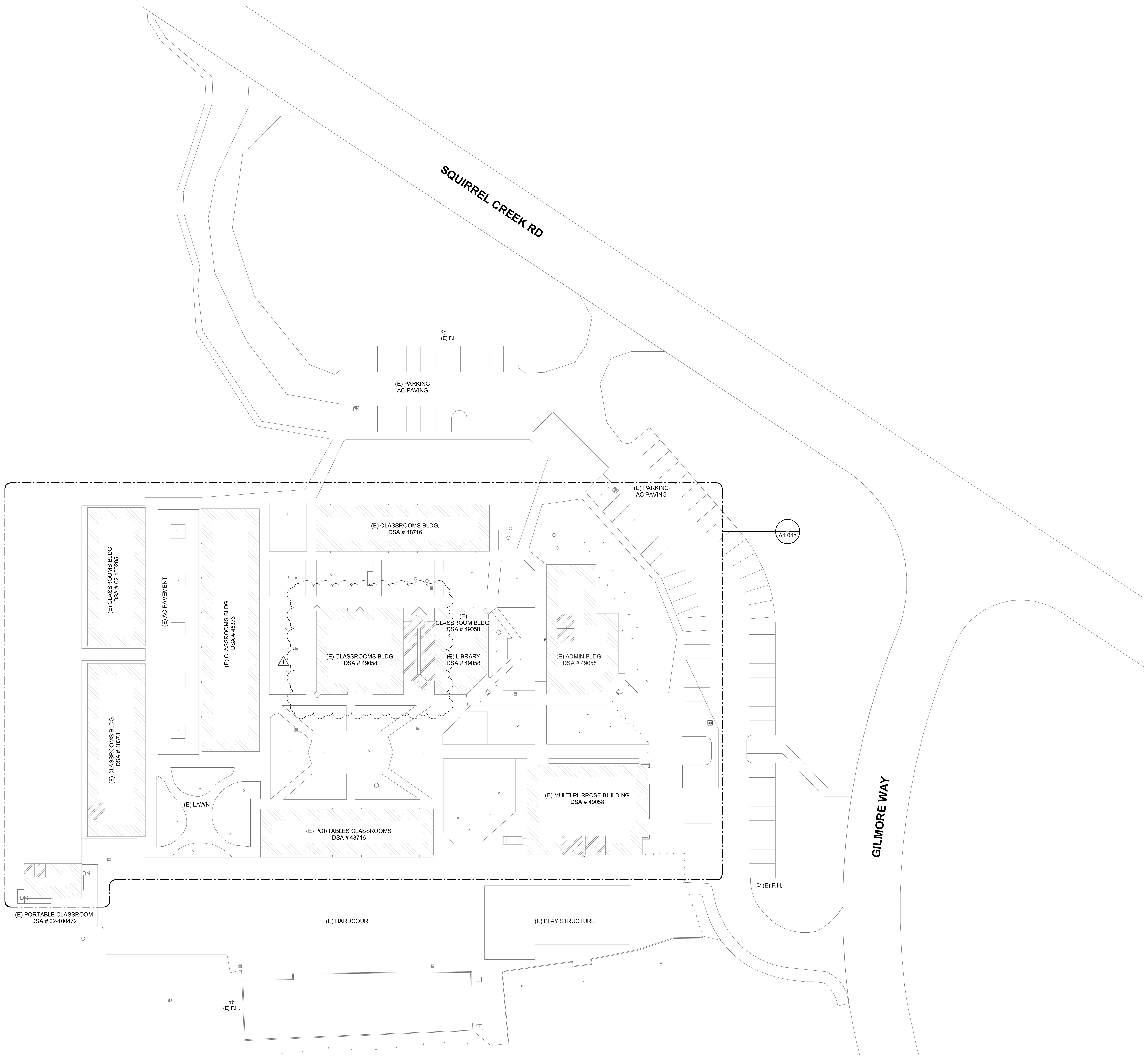
SHEET

BUILDING CODE ANALYSIS - BUILDINGS L & M / DSA 403-A

DATE 05/09/2019

JOB # 2018045

SHEET # A0.03



1 **OVERALL DEMOLITION SITE PLAN**
SCALE: 1" = 30'-0"

10/13/2019 3:51:51 PM
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GENERAL SHEET NOTES

A CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

B CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

C DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

D PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

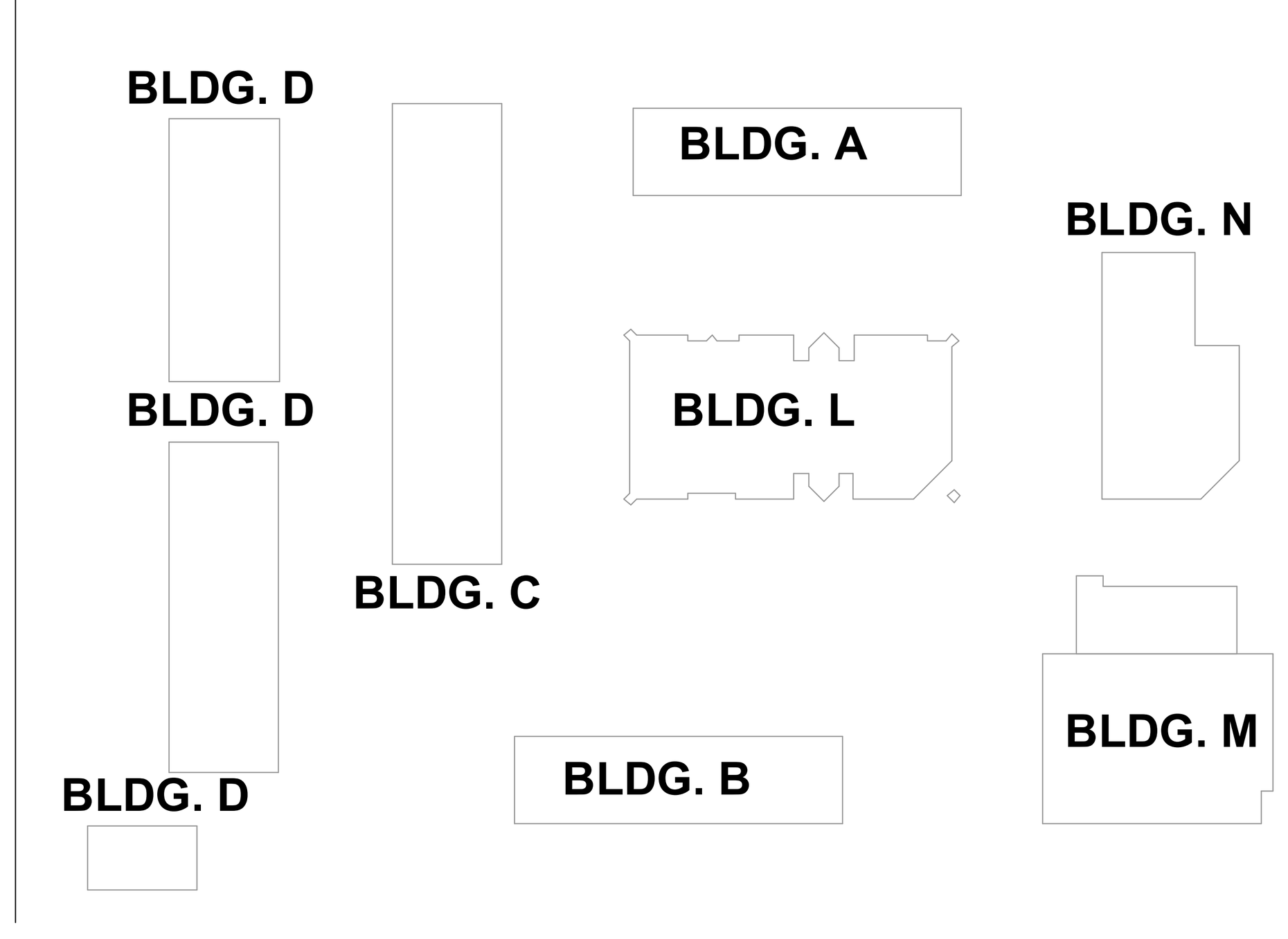
E REFER TO CIVIL, PLUMBING, ELECTRICAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR EXTENT OF CIVIL, PLUMBING, ELECTRICAL, STRUCTURAL, AND MECHANICAL WORK.

G 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 NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THE PROJECTS 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 THRESHOLDS OR 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 NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE.

GRAPHIC KEY

EXISTING TO BE DEMOLISHED
EXISTING TOILET ROOMS. REFER TO NOTES FOR ADDITIONAL INFORMATION.
EXISTING CONSTRUCTION TO REMAIN
PROPERTY LINE
(E) F.H. EXISTING FIRE HYDRANT

BUILDING KEY



aedis architects
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San Jose, CA 95113
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fax: (408)-300-5121

PROJECT
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
NO. C-25840
STATE OF CALIFORNIA

STATE

REVISIONS

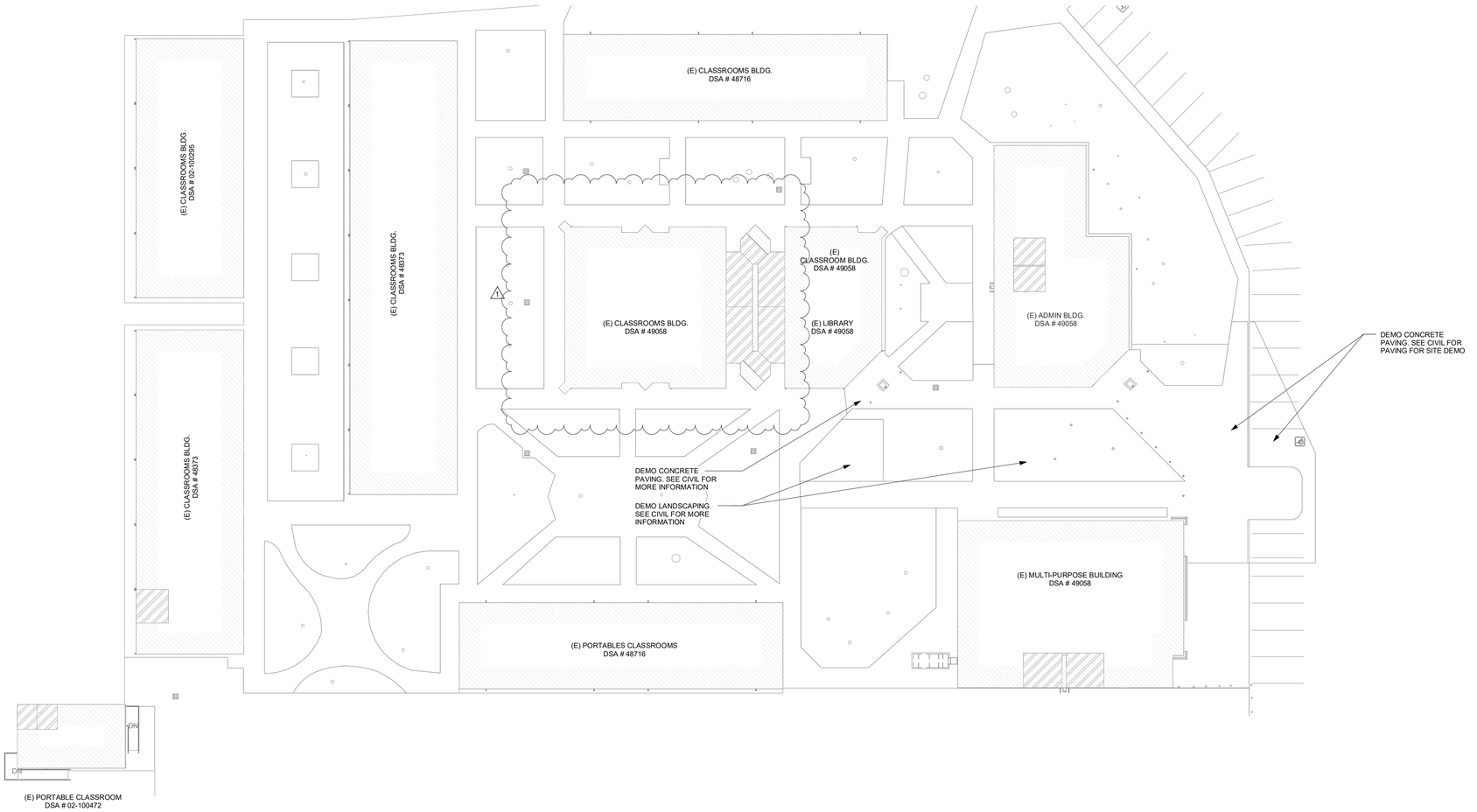
No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
DEMOLITION SITE PLAN

DATE 05/09/2019
JOB # 2018045
SHEET # A1.01



1 ENLARGED DEMOLITION SITE PLAN
SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

B CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

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GRAPHIC KEY

EXISTING TO BE DEMOLISHED

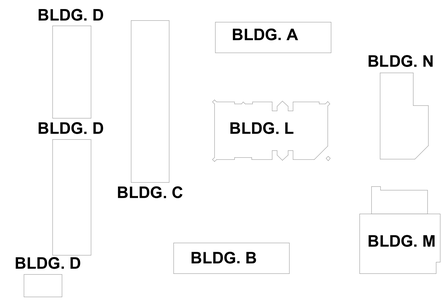
EXISTING TOILET ROOMS. REFER TO NOTES FOR ADDITIONAL INFORMATION.

EXISTING CONSTRUCTION TO REMAIN

PROPERTY LINE

(E) F.H. EXISTING FIRE HYDRANT

BUILDING KEY



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PROJECT

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CONSULTANT

STAMP

LICENSED ARCHITECT JOHN D. DITTENBER III NO. C-25840 REG. 8/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

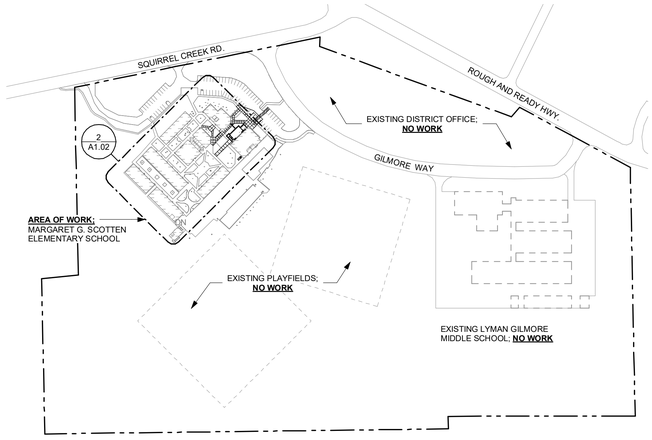
SHEET

ENLARGED DEMO SITE PLAN

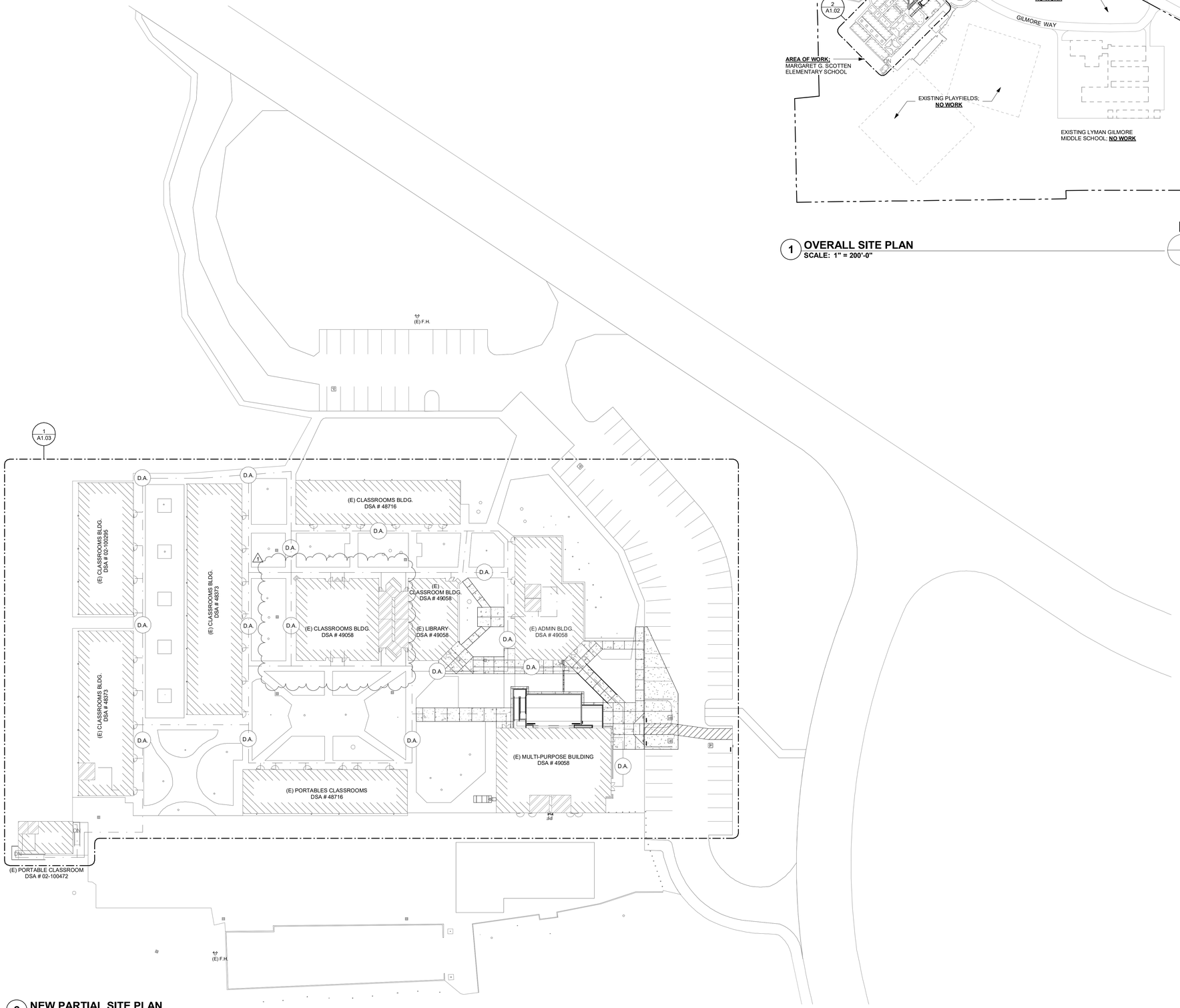
DATE 05/09/2019

JOB # 2018045

SHEET # A1.01a



1 **OVERALL SITE PLAN**
SCALE: 1" = 200'-0"



2 **NEW PARTIAL SITE PLAN**
SCALE: 1" = 30'-0"

GENERAL SHEET NOTES

A CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.

B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

C CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

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GRAPHIC KEY

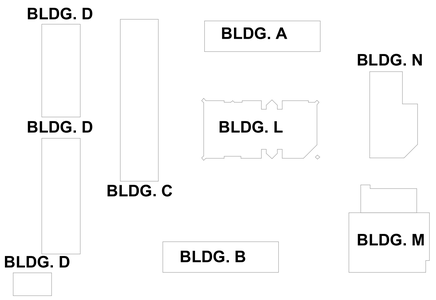
- NEW BUILDING ADDITION.
- NEW TOILET ROOM ADDITION.
- EXISTING TOILET ROOMS TO BE MODERNIZED.
- EXISTING BUILDING TO REMAIN
- FIRE ACCESS LANE
- (N) ORNAMENTAL FENCE
- PROPERTY LINE
- D.A. PATH OF TRAVEL

D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

(E) F.H. EXISTING FIRE HYDRANT

PARKING COUNT			
	REQUIRED	ACTUAL	PARKING LOT #
PARKING LOT			
PARKING SPACES	--	67	PARKING LOT
D.A. PARKING SPACES	3	3	PARKING LOT
VAN D.A. PARKING SPACES	1	2	PARKING LOT

BUILDING KEY



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PROJECT
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Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOHN P. STEVENSON NO. C-25840 REG. 8/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

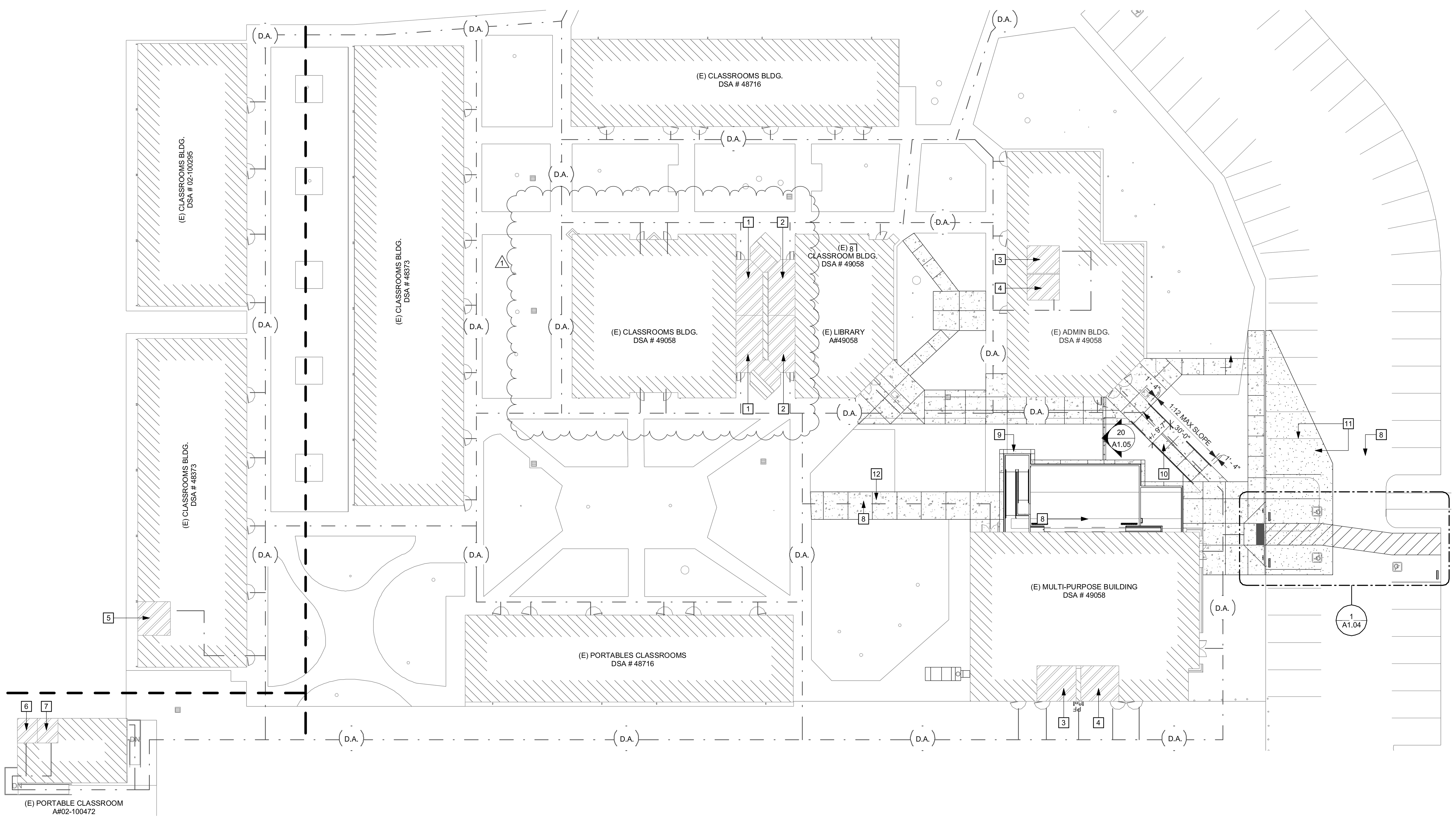
No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
NEW SITE PLAN

DATE 05/09/2019
JOB # 2018045
SHEET # A1.02



1 **ENLARGED SITE PLAN**
SCALE: 1" = 20'-0"

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DEMOLITION FLOOR PLAN KEYNOTES

1 (E) D.A. GIRLS RESTROOM. DSA # 49058
2 (E) D.A. BOYS RESTROOM. DSA # 49058
3 (E) D.A. WOMENS RESTROOM. DSA # 49058
4 (E) D.A. MENS RESTROOM. DSA # 49058
5 (E) D.A. UNISEX RESTROOM. DSA # 48373
6 (E) D.A. GIRLS RESTROOM. DSA # 02-100472
7 (E) D.A. BOYS RESTROOM. DSA # 02-100472
8 CONTRACTOR TO PROVIDE AND INSTALL/REVISE (E) IRRIGATION AS REQUIRED IN THESE AREAS TO PROVIDE FULL AND COMPLETE SYSTEM
9 18" CONCRETE BAND. SEE CIVIL DRAWINGS FOR MORE INFORMATION
10 CONCRETE RAMP. SEE CIVIL DRAWINGS FOR MORE INFORMATION
11 (N) AC PAVING AND STRIPING. SEE CIVIL DRAWINGS FOR MORE INFORMATION
12 (N) CONCRETE PAVING, TYP. SEE CIVIL DRAWINGS FOR MORE INFORMATION

GRAPHIC KEY

NEW BUILDING ADDITION.

NEW TOILET ROOM ADDITION.

EXISTING TOILET ROOMS TO BE MODERNIZED.

EXISTING BUILDING TO REMAIN

FIRE ACCESS LANE

(N) ORNAMENTAL FENCE

PROPERTY LINE

D.A. PATH OF TRAVEL

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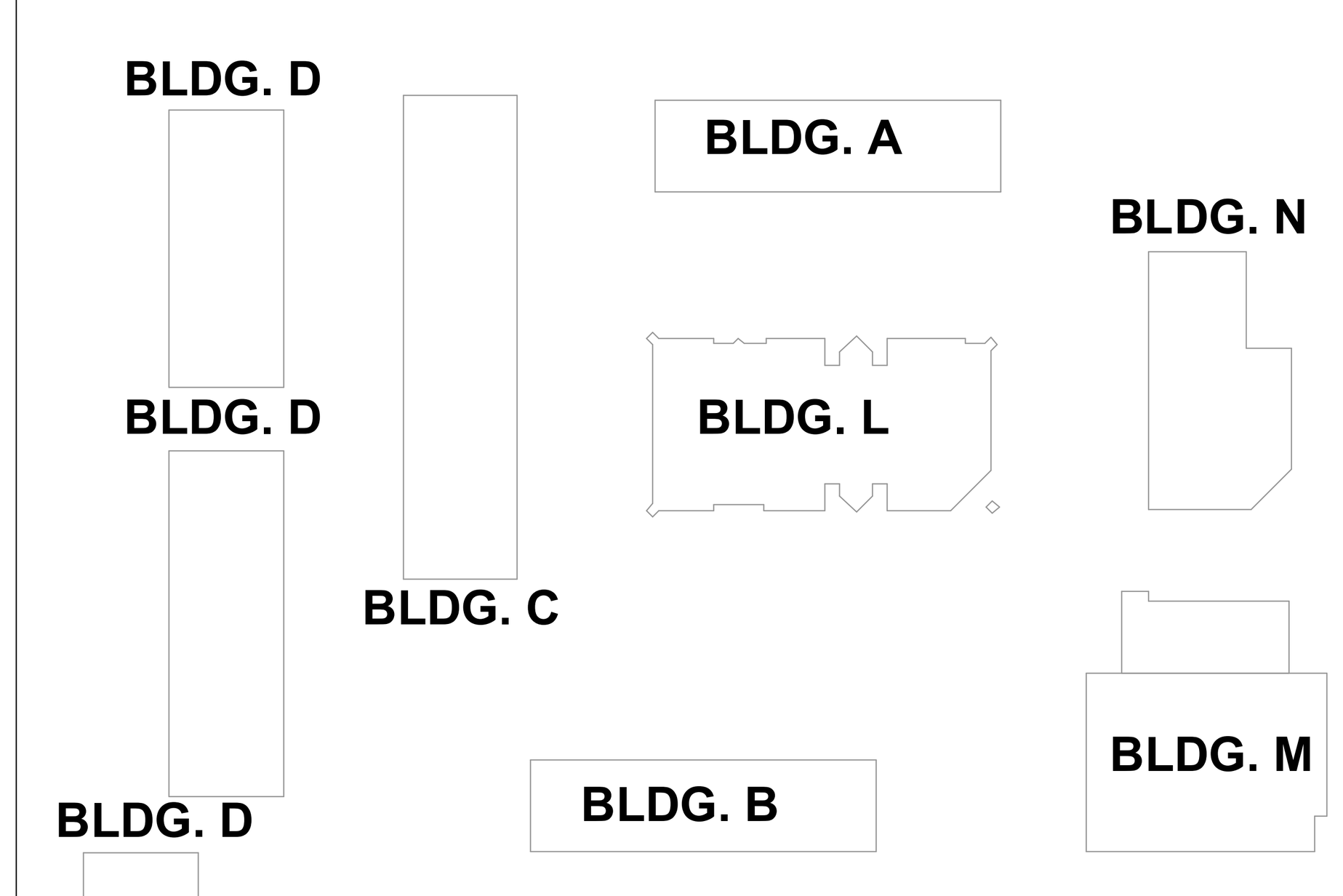
(E) F.H. EXISTING FIRE HYDRANT

BUILDING KEY



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SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
ENLARGED SITE PLAN

DATE 05/09/2019
JOB # 2018045
SHEET # A1.03

10/13/2019 3:52:07 PM
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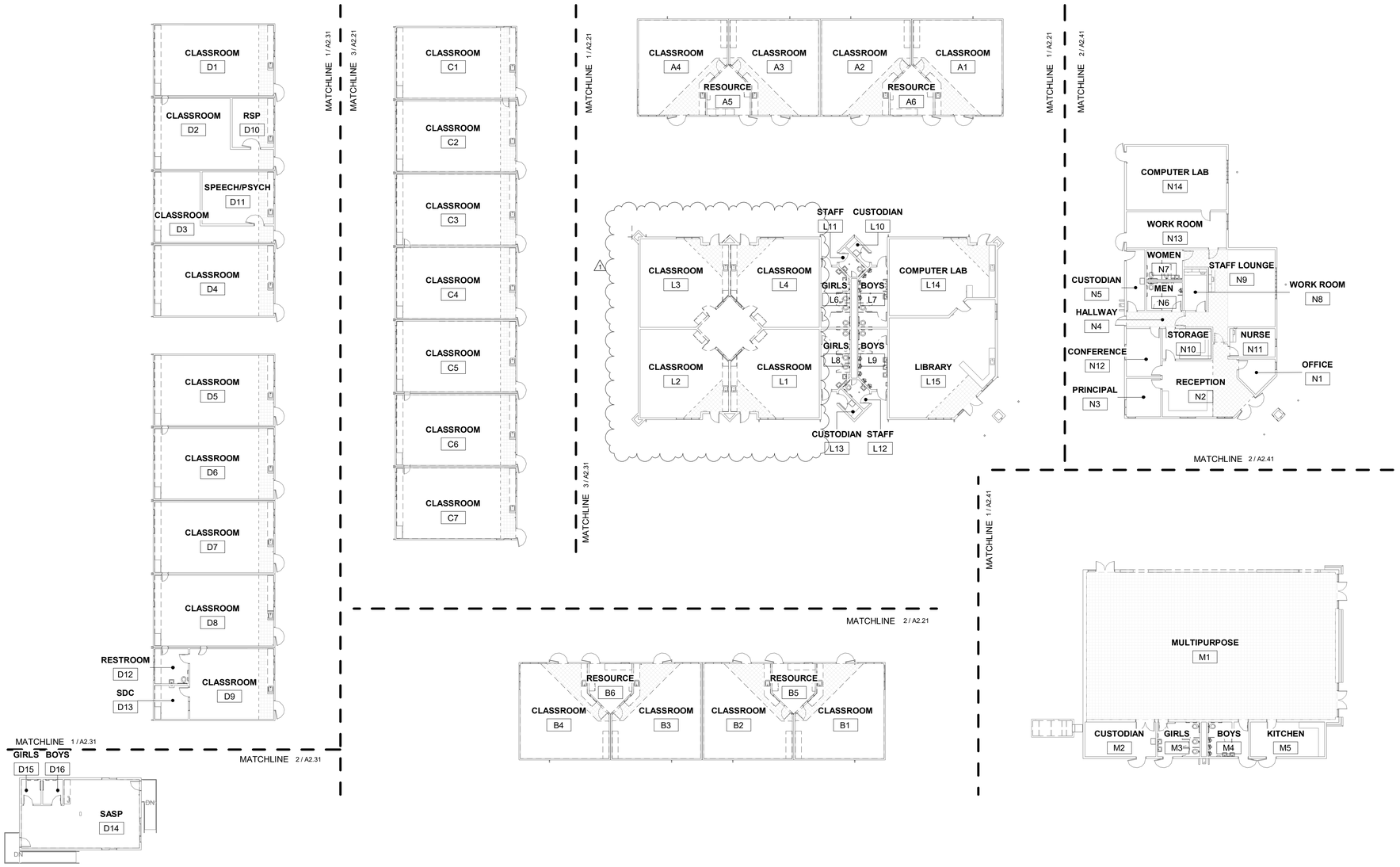


1 OVERALL DEMO FLOOR PLAN
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION WORK.

C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER, SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO RECEIVE WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

G ALL FLOORING MATERIALS ARE TO BE REMOVED TO TOP OF EXISTING SUBFLOOR OR SLAB BY MECHANICAL MEANS U.O.N. REVIEW SECTION 024113 AS APPLICABLE. TOP OF EXISTING SUBFLOOR OR SLAB TO BE LEFT SMOOTH, CLEAN, AND FREE OF ALL ADHESIVE AND READY FOR INSTALLATION OF NEW FLOORING.

H EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

GRAPHIC KEY

WALL TYPES:

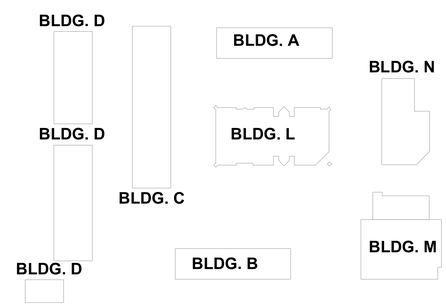
EXISTING WALL TO BE DEMOLISHED.

EXISTING WALL TO REMAIN.

FLOOR FINISH TYPES:

(E) VINYL TILE TO BE DEMOLISHED.

BUILDING KEY



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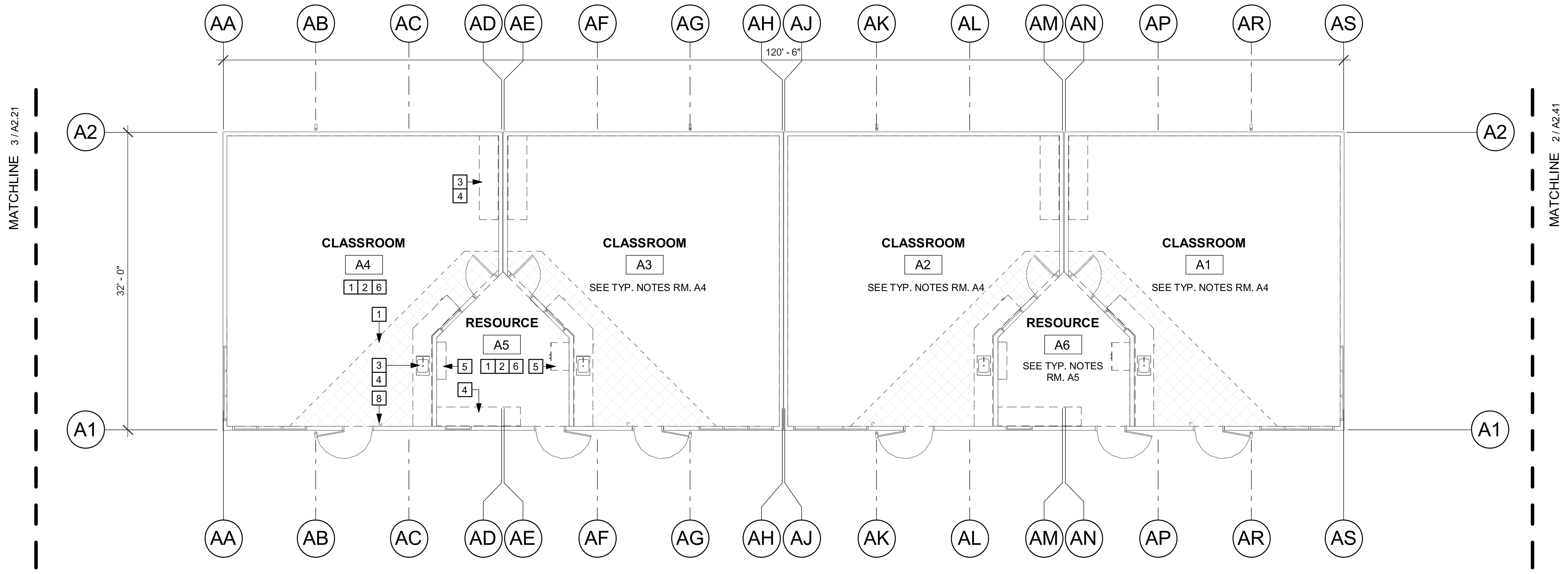
MILESTONES

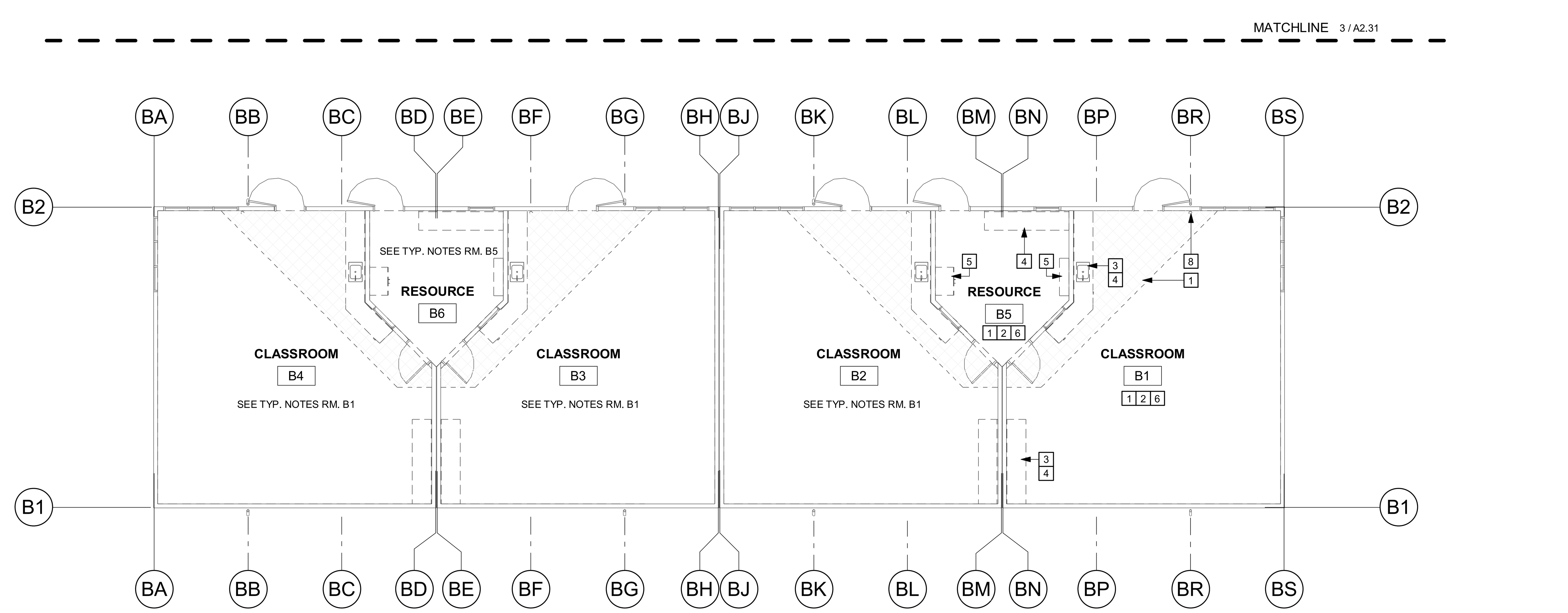
SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
OVERALL DEMOLITION FLOOR PLAN

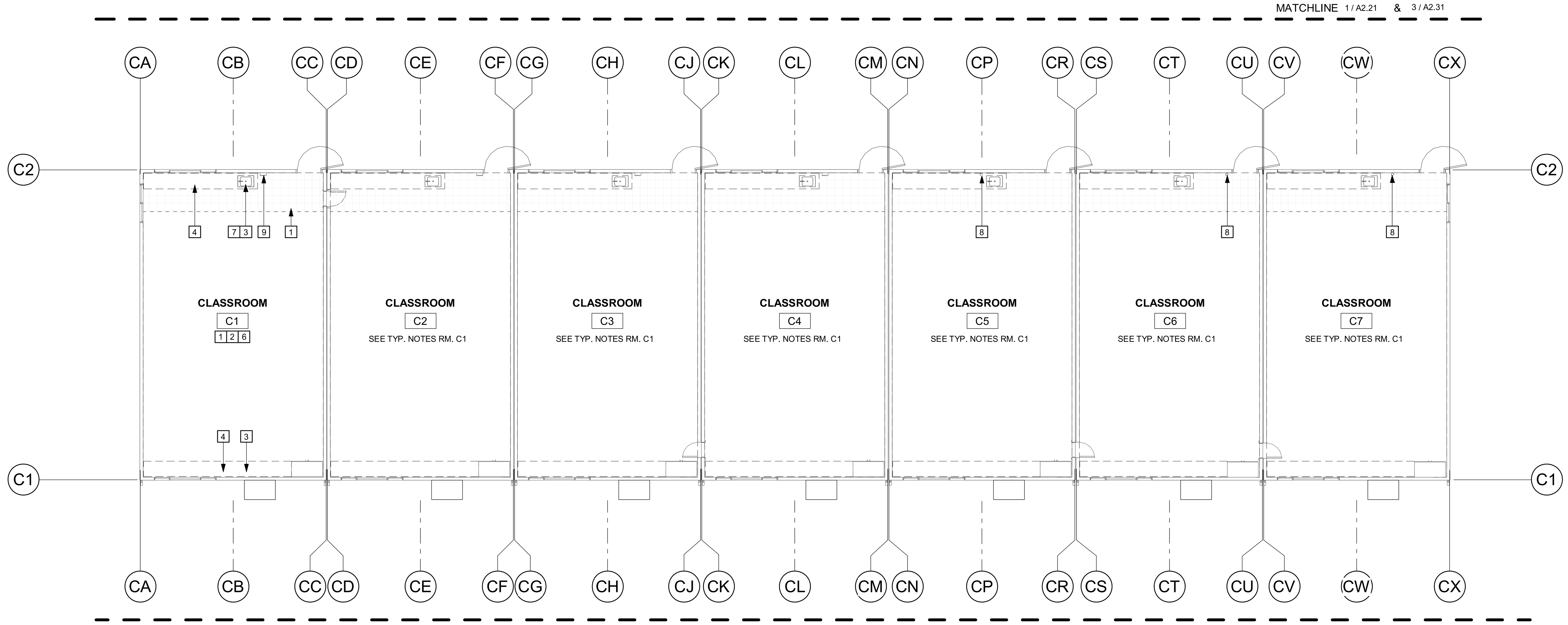
DATE 05/09/2019
JOB # 2018045
SHEET # A2.11



1 **BUILDING A DEMO FLOOR PLAN**
SCALE: 1/8" = 1'-0"



2 **BUILDING B DEMO FLOOR PLAN**
SCALE: 1/8" = 1'-0"



3 **BUILDING C DEMO FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER, SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO RECEIVE WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

G ALL FLOORING MATERIALS ARE TO BE REMOVED TO TOP OF EXISTING SUBFLOOR OR SLAB BY MECHANICAL MEANS U.O.N. REVIEW SECTION 024113 AS APPLICABLE. TOP OF EXISTING SUBFLOOR OR SLAB TO BE LEFT SMOOTH, CLEAN, AND FREE OF ALL ADHESIVE AND READY FOR INSTALLATION OF NEW FLOORING.

H EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

DEMOLITION FLOOR PLAN KEYNOTES

1 DEMO (E) FLOORING TO SUBFLOOR
2 (E) TACKABLE WALL PANELS TO REMAIN. DEMO MARKER BOARDS AND OTHER OBJECTS AS SHOWN IN DRAWINGS
3 DEMO (E) COUNTER TOP, SINKS, AND CLOSURE PANEL, TYP. PROTECT AND PREP ALL PLUMBING TO CONNECT TO NEW FIXTURES.
4 DEMO (E) CABINET DOORS AND DRAWER FRONTS. PREPARE CABINETS FOR (N) WORK
5 DEMO (E) CASEWORK AS SHOWN
6 DEMO (E) CEILING TILES & PREPARE GRID FOR (N) WORK.
7 (E) BASE CABINET UNDERNEATH SINK TO REMAIN. REMOVE (E) CABINET DOORS AND PREP (E) CABINET BODY FOR NEW FINISHES.
8 REMOVE (E) FIRE EXTINGUISHER. PROTECT & PREP FOR RE-INSTALLATION
9 (E) SEMI-RECESSED FIRE EXTINGUISHER CABINET TO REMAIN

GRAPHIC KEY

WALL TYPES:

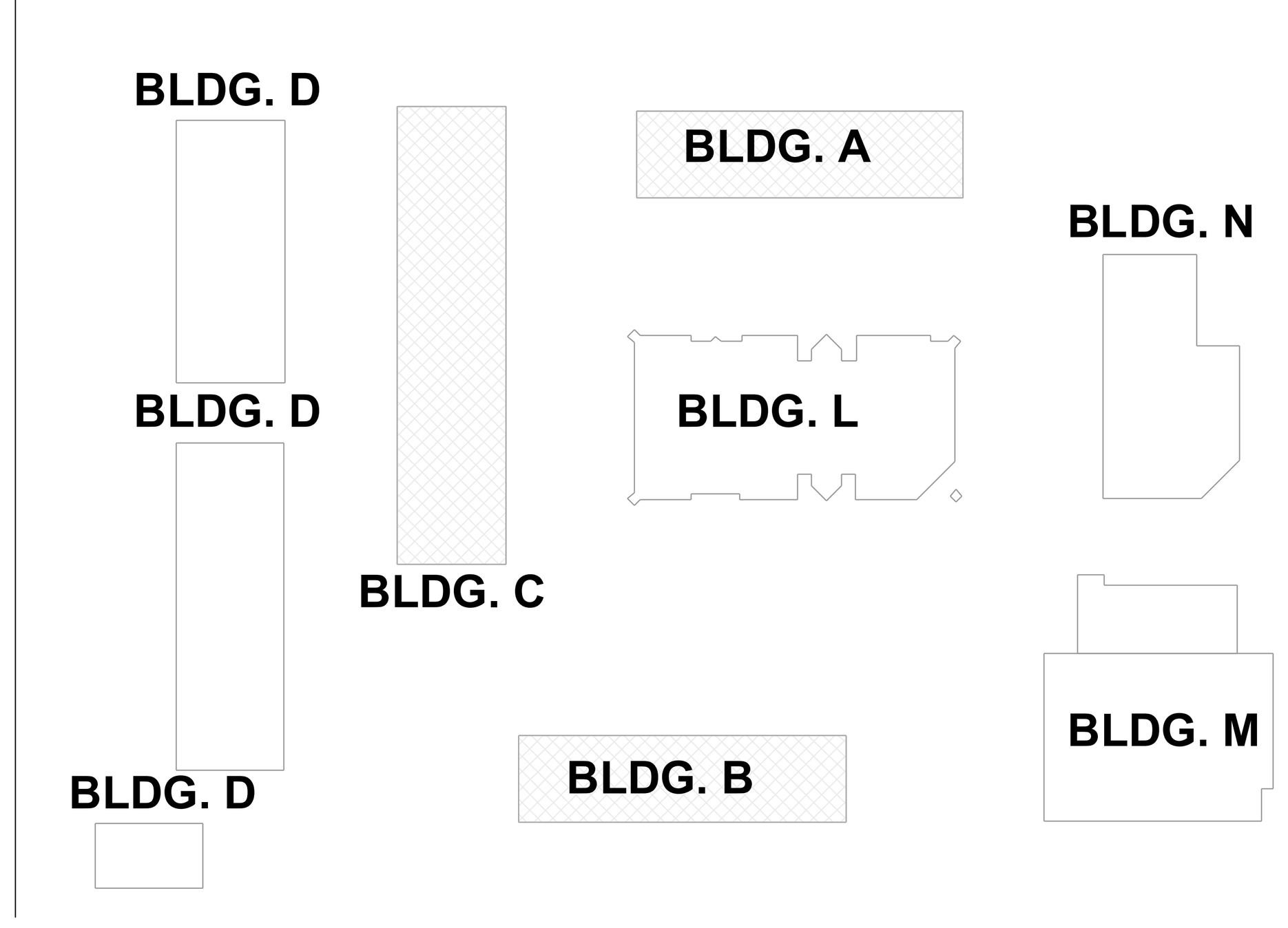
EXISTING WALL TO BE DEMOLISHED.

EXISTING WALL TO REMAIN.

FLOOR FINISH TYPES:

(E) VINYL TILE TO BE DEMOLISHED.

BUILDING KEY



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PROJECT

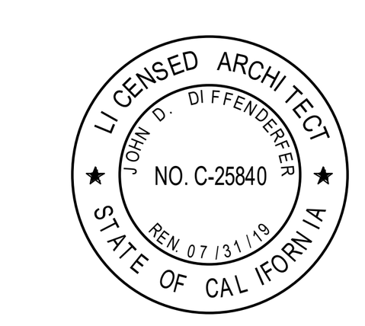
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET

DEMOLITION FLOOR PLAN - BUILDINGS A, B & C

DATE 05/09/2019

JOB # 2018045

SHEET # A2.21

10/13/2019 3:52:24 PM
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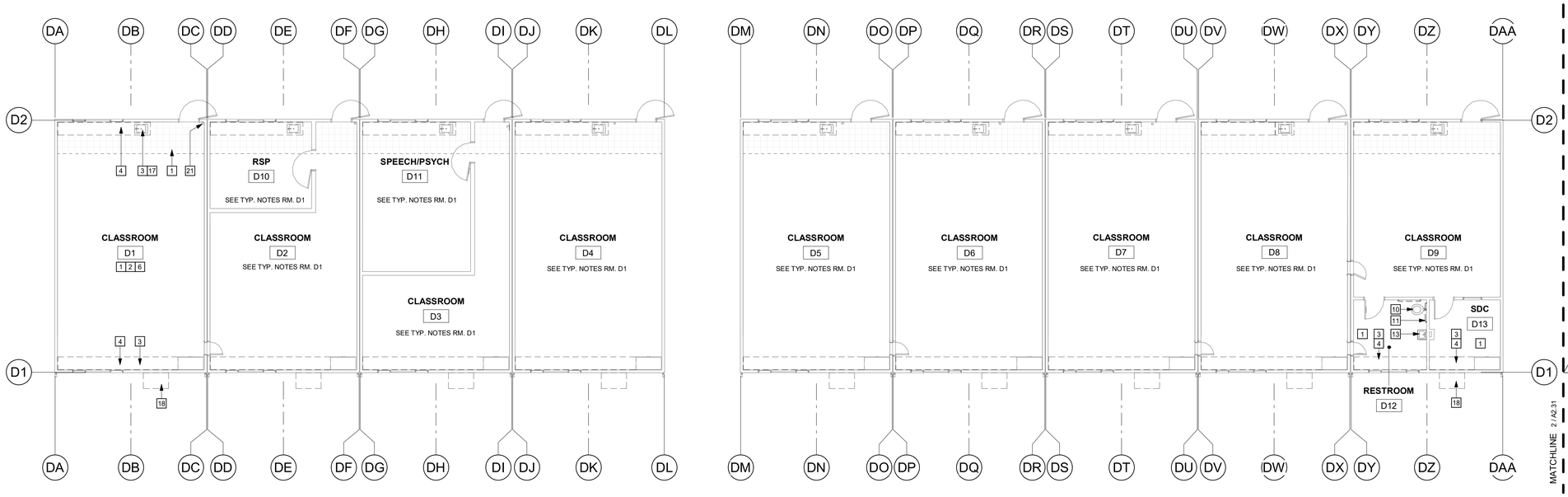
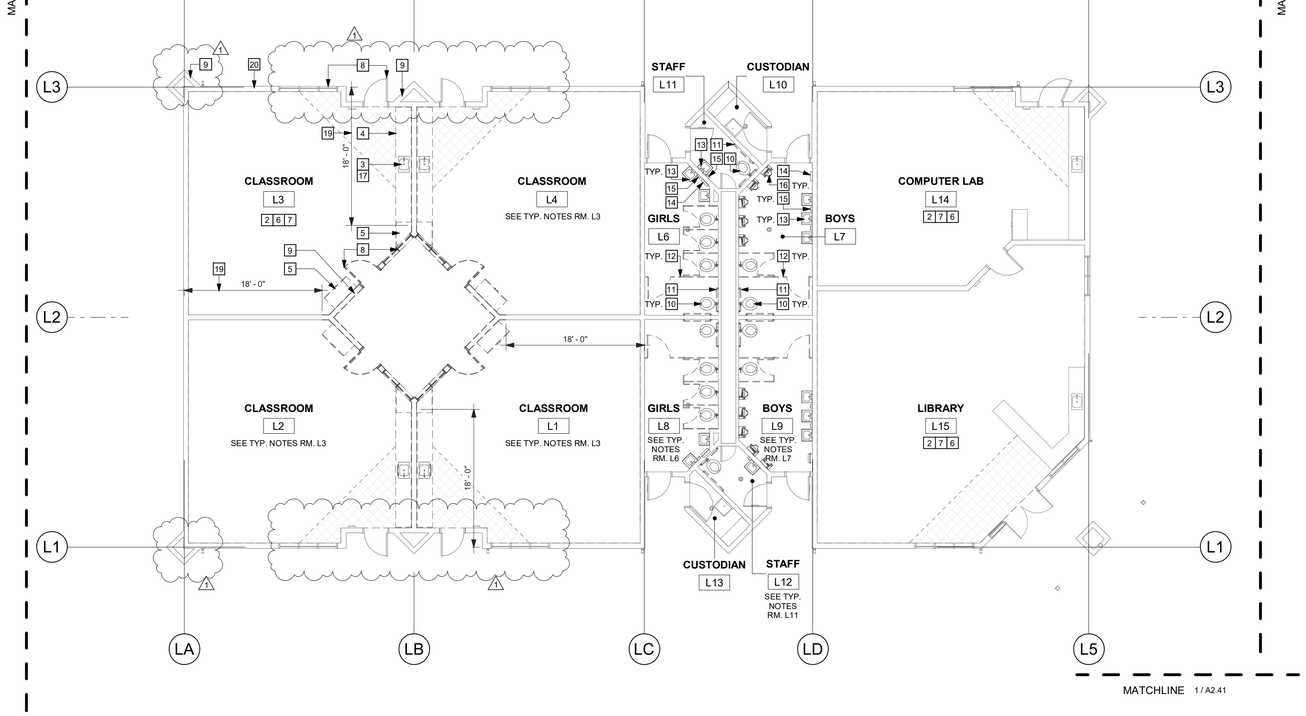


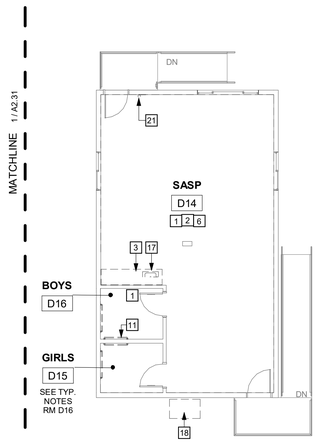
1 BUILDING D DEMO FLOOR PLAN - PARTIAL

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



3 BUILDING L DEMO FLOOR PLAN

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



2 BLDG. D DEMO FLOOR PLAN - PARTIAL

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

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION WORK.

C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER, SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO RECEIVE WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

G ALL FLOORING MATERIALS ARE TO BE REMOVED TO TOP OF EXISTING SUBFLOOR OR SLAB BY MECHANICAL MEANS U.O.N. REVIEW SECTION 024113 AS APPLICABLE. TOP OF EXISTING SUBFLOOR OR SLAB TO BE LEFT SMOOTH, CLEAN, AND FREE OF ALL ADHESIVE AND READY FOR INSTALLATION OF NEW FLOORING.

H EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

DEMOLITION FLOOR PLAN KEYNOTES

1 DEMO (E) FLOORING TO SUBFLOOR
2 (E) TACKABLE WALL PANELS TO REMAIN. DEMO MARKER BOARDS AND OTHER OBJECTS AS SHOWN IN DRAWINGS
3 DEMO (E) COUNTER TOP, SINKS, AND CLOSURE PANEL, TYP. PROTECT AND PREP ALL PLUMBING TO CONNECT TO NEW FIXTURES.
4 DEMO (E) CABINET DOORS AND DRAWER FRONTS. PREPARE CABINETS FOR (N) WORK
5 DEMO (E) CASEWORK AS SHOWN
6 DEMO (E) CEILING TILES & PREPARE GRID FOR (N) WORK.
7 DEMO (E) FLOORING TO SLAB
8 NOT USED
9 NOT USED
10 DEMO (E) TOILET FIXTURE & PREPARE TO RECEIVE (N). SEE PLUMBING DRAWINGS FOR MORE INFORMATION
11 DEMO (E) GRAB BAR, TYP.
12 DEMO (E) TOILET PARTITION AND HARDWARE FOR REINSTALLATION AS SHOWN ON (N) PLANS, TYP.
13 DEMO (E) SINK & PREPARE TO RECEIVE (N). SEE PLUMBING DRAWINGS FOR MORE INFORMATION
14 DEMO (E) PAPER TOWEL DISPENSER AND WASTE RECEPTACLE, TYP.
15 DEMO (E) SOAP DISPENSER, TYP.
16 DEMO (E) URINAL & PREPARE TO RECEIVE (N). SEE PLUMBING DRAWINGS FOR MORE INFORMATION
17 (E) BASE CABINET UNDERNEATH SINK TO REMAIN. REMOVE (E) CABINET DOORS AND PREP (E) CABINET BODY FOR NEW FINISHES.
18 DEMO (E) EXTERIOR WALL MOUNTED HVAC. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
19 (E) WALL TO REMAIN
20 DEMO (E) WALL FINISH TO SHEATHING AS REQUIRED FOR (N) WORK
21 REMOVE (E) FIRE EXTINGUISHER. PROTECT & PREP FOR RE-INSTALLATION

GRAPHIC KEY

WALL TYPES:

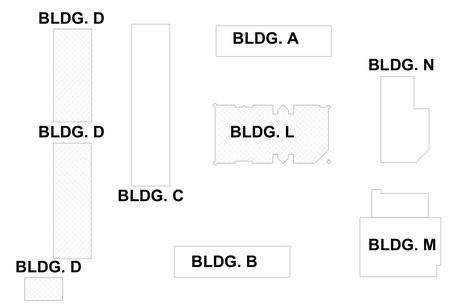
EXISTING WALL TO BE DEMOLISHED.

EXISTING WALL TO REMAIN.

FLOOR FINISH TYPES:

(E) VINYL TILE TO BE DEMOLISHED.

BUILDING KEY



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PROJECT

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Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN D. DITTENBER III NO. C-25840 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

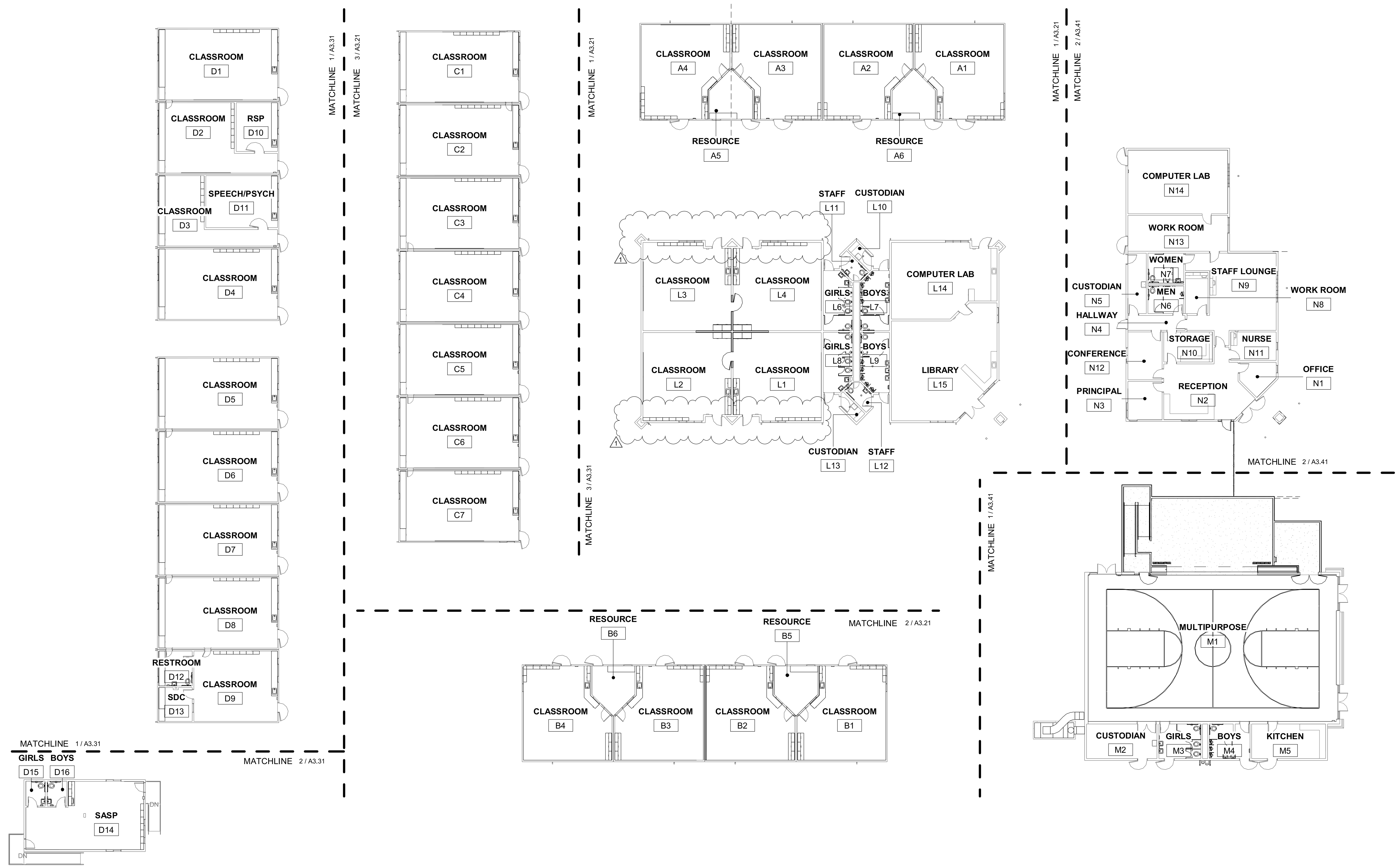
SHEET

DEMOLITION FLOOR PLAN - BUILDINGS D & L

DATE 05/09/2019

JOB # 2018045

SHEET # A2.31



1 OVERALL FLOOR PLAN

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

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL (N) EXTERIOR WALLS AND (N) TOILET ROOM WALLS.

E ALL (N) EXTERIOR STUD WALLS SHALL HAVE MIN. R-21 FOIL BACKED INSULATION.

F ALL (N) TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

G PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

H REFER TO FLOOR PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

I DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

GRAPHIC KEY

WALL TYPES:

EXISTING WALL TO REMAIN.

WALL TYPE. REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.

STUD WALL.

2HR AREA SEPARATION WALL, SEE TYPICAL FIRE BARRIER PROTECTION STENCIL DETAIL.

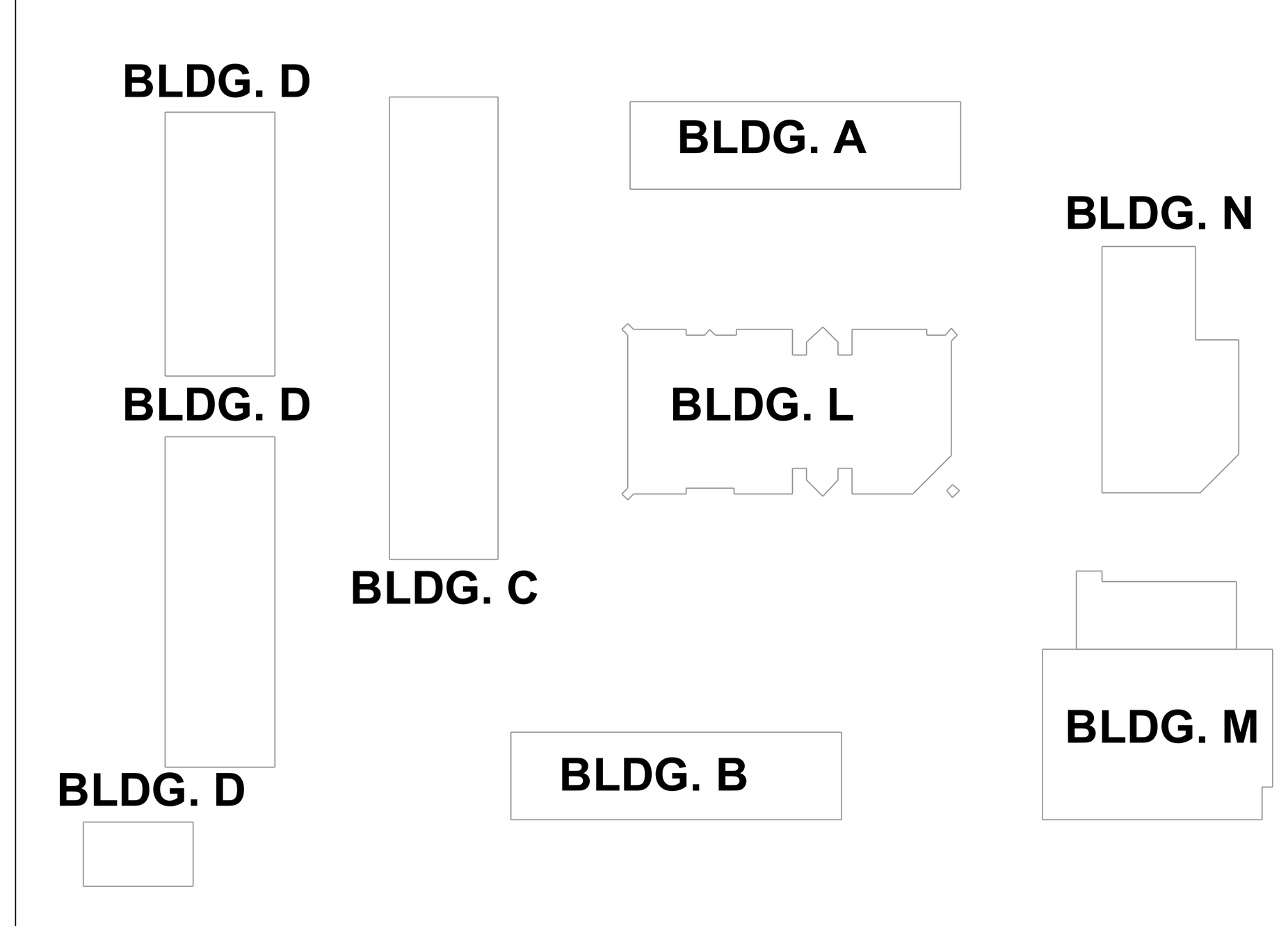
FIXTURE TYPES:

FULLY RECESSED FIRE EXTINGUISHER CABINET.

SEMI RECESSED FIRE EXTINGUISHER CABINET.

SURFACE MOUNTED FIRE EXTINGUISHER CABINET.

BUILDING KEY



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1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET

OVERALL NEW FLOOR PLAN

DATE 05/09/2019

JOB # 2018045

SHEET # A3.11

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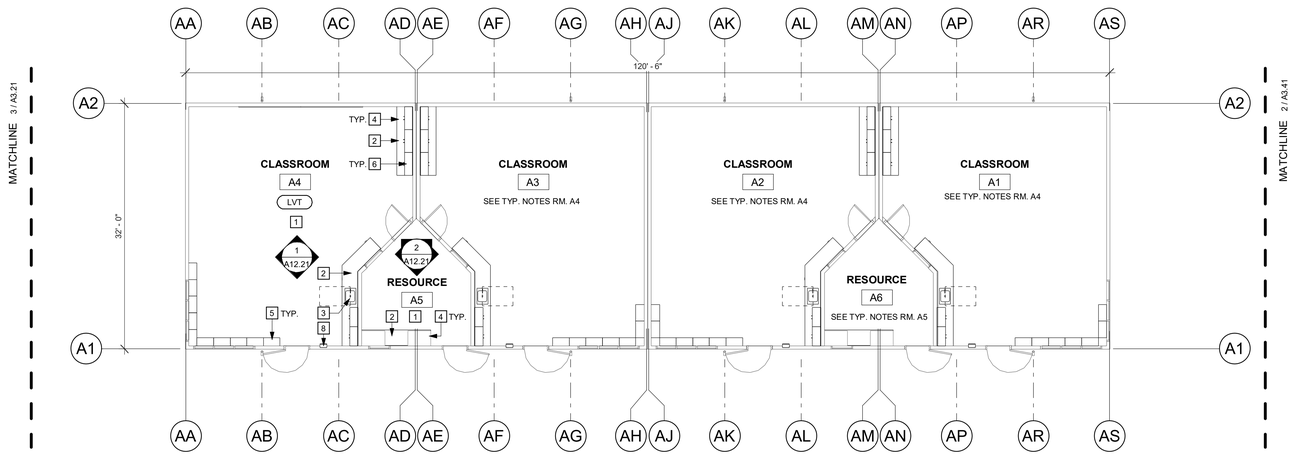
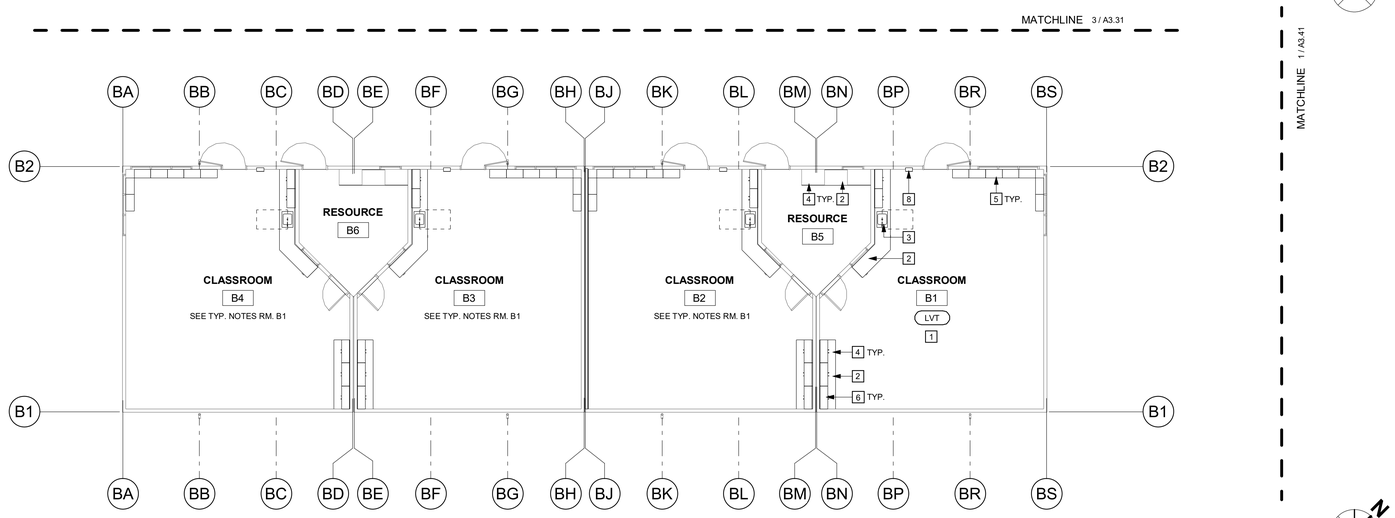
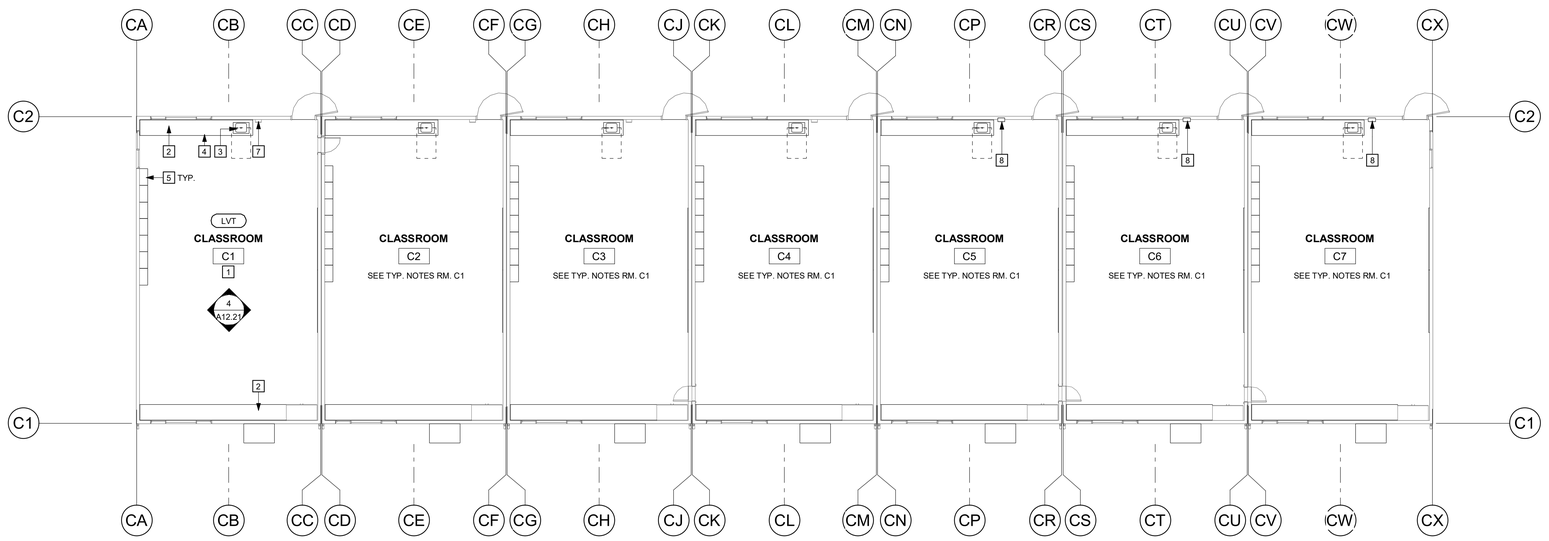


1 BUILDING A FLOOR PLAN
SCALE: 1/8" = 1'-0"



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



3 BUILDING C FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL (N) EXTERIOR WALLS AND (N) TOILET ROOM WALLS.

1 E ALL (N) EXTERIOR STUD WALLS SHALL HAVE MIN. R-21 FOIL BACKED INSULATION.

F ALL (N) TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

G PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

H REFER TO FLOOR PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

I DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

NEW FLOOR PLAN KEYNOTES

1 (N) LVT FLOORING, SEE SPECS FOR MORE INFORMATION
2 (N) COUNTERTOP
3 (N) SINK, TYP. CONNECT TO (E) PLUMBING. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION
4 (N) LAMINATE ON (E) CABINET BODY. PROVIDE AND INSTALL NEW DOORS AND DRAWER FRONTS, TYP.
5 (N) BUILT-IN CUBBIES
6 (N) UPPER CABINETS
7 (E) SURFACE MOUNTED FIRE EXTINGUISHER CABINET
8 (E) FIRE EXTINGUISHER INSTALLED IN (N) SEMI-RECESSED CABINET

GRAPHIC KEY

WALL TYPES:

EXISTING WALL TO REMAIN.

WALL TYPE . REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.

STUD WALL.

2HR AREA SEPARATION WALL, SEE TYPICAL FIRE BARRIER PROTECTION STENCIL DETAIL.

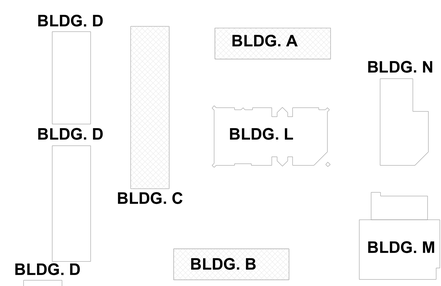
FIXTURE TYPES:

FULLY RECESSED FIRE EXTINGUISHER CABINET.

SEMI RECESSED FIRE EXTINGUISHER CABINET.

SURFACE MOUNTED FIRE EXTINGUISHER CABINET.

BUILDING KEY



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PROJECT
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Grass Valley School District

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CONSULTANT

STAMP

LICENSED ARCHITECT JOHN P. STEVENSON NO. C-25840 REG. 8/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

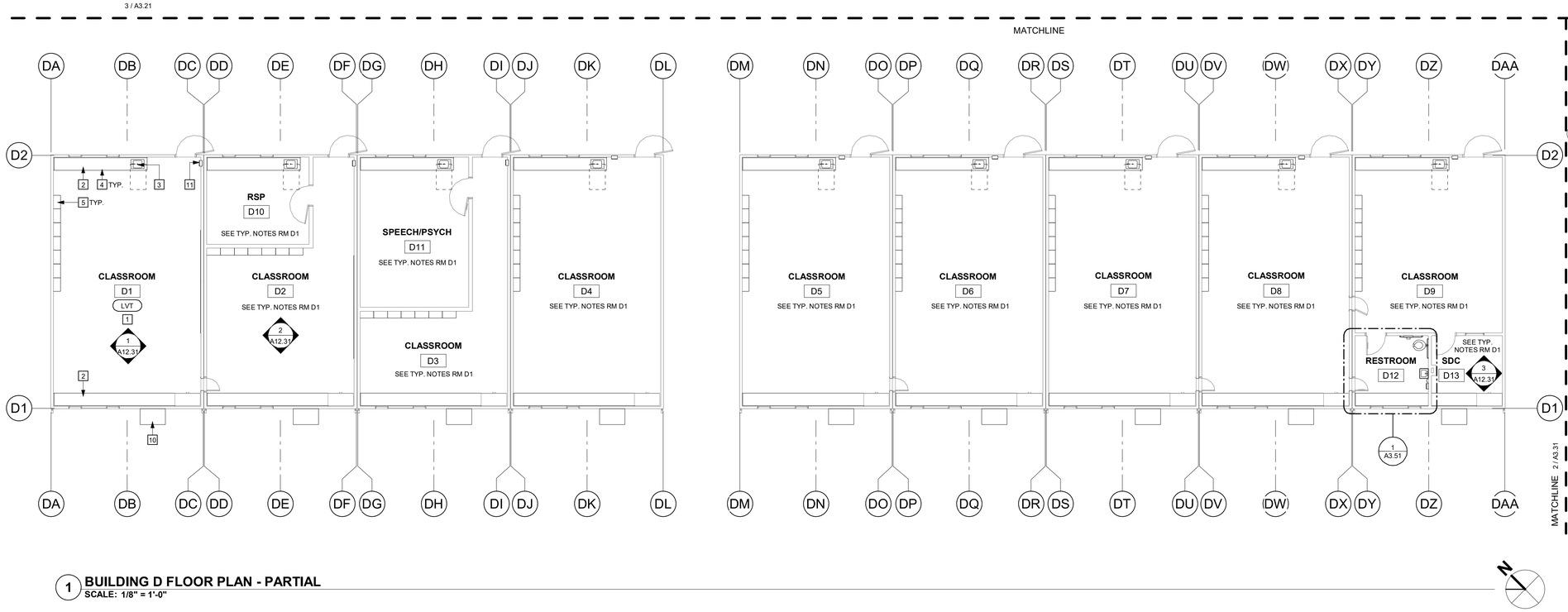
SHEET

NEW FLOOR PLANS - BUILDINGS A, B & C

DATE 05/09/2019

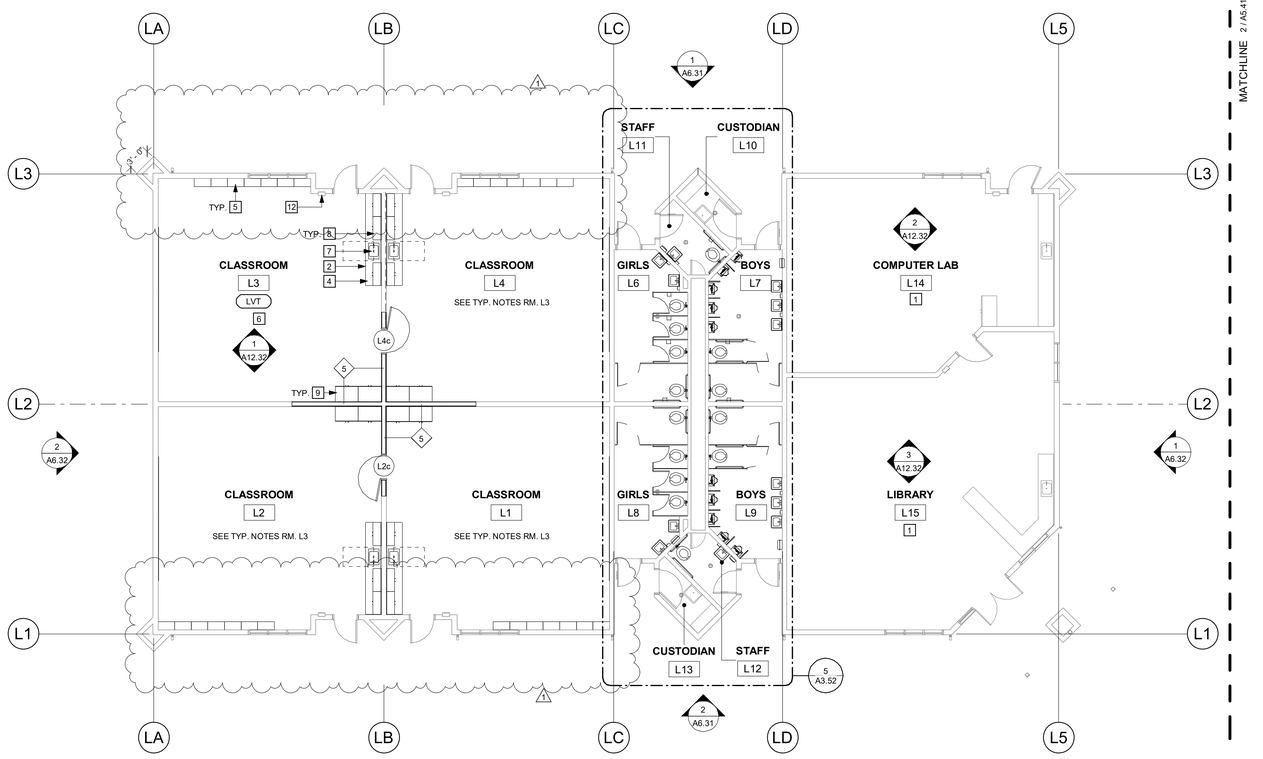
JOB # 2018045

SHEET # A3.21



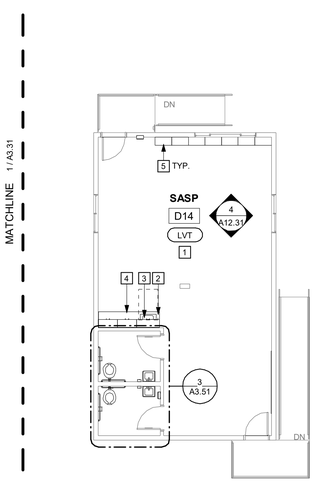
1 BUILDING D FLOOR PLAN - PARTIAL

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



3 BUILDING L FLOOR PLAN

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



2 BUILDING D FLOOR PLAN - PARTIAL

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

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL (N) EXTERIOR WALLS AND (N) TOILET ROOM WALLS.

E ALL (N) EXTERIOR STUD WALLS SHALL HAVE MIN. R-21 FOIL BACKED INSULATION.

F ALL (N) TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION. 1

G PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

H REFER TO FLOOR PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

I DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

NEW FLOOR PLAN KEYNOTES

1 (N) LVT FLOORING, SEE SPECS FOR MORE INFORMATION
2 (N) COUNTERTOP
3 (N) ACCESSIBLE SINK AND BASE CABINET. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION
4 (N) LAMINATE ON (E) CABINET BODY. PROVIDE AND INSTALL NEW DOORS AND DRAWER FRONTS, TYP.
5 (N) BUILT-IN CUBBIES
6 (N) TACKABLE WALL
7 (N) SINK, TYP. CONNECT TO (E) PLUMBING. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION
8 (N) UPPER CABINETS
9 (2) (N) TALL CABINETS.
10 (N) MECH UNIT, SEE MECH DRAWINGS
11 (E) FIRE EXTINGUISHER INSTALLED IN (N) SEMI-RECESSED CABINET
12 (E) SEMI-RECESSED FIRE EXTINGUISHER CABINET

GRAPHIC KEY

WALL TYPES:

EXISTING WALL TO REMAIN.

WALL TYPE. REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.

STUD WALL.

2HR AREA SEPARATION WALL, SEE TYPICAL FIRE BARRIER PROTECTION STENCIL DETAIL.

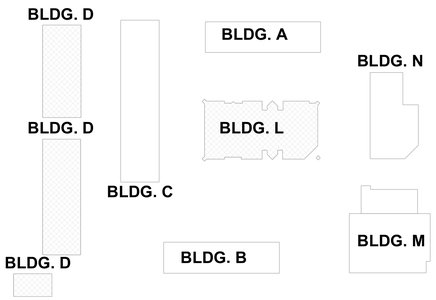
FIXTURE TYPES:

FULLY RECESSED FIRE EXTINGUISHER CABINET.

SEMI RECESSED FIRE EXTINGUISHER CABINET.

SURFACE MOUNTED FIRE EXTINGUISHER CABINET.

BUILDING KEY



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CONSULTANT

STAMP

LICENSED ARCHITECT JOHN D. DITTENBER III NO. C-25840 STATE OF CALIFORNIA REG. 07/31/19

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

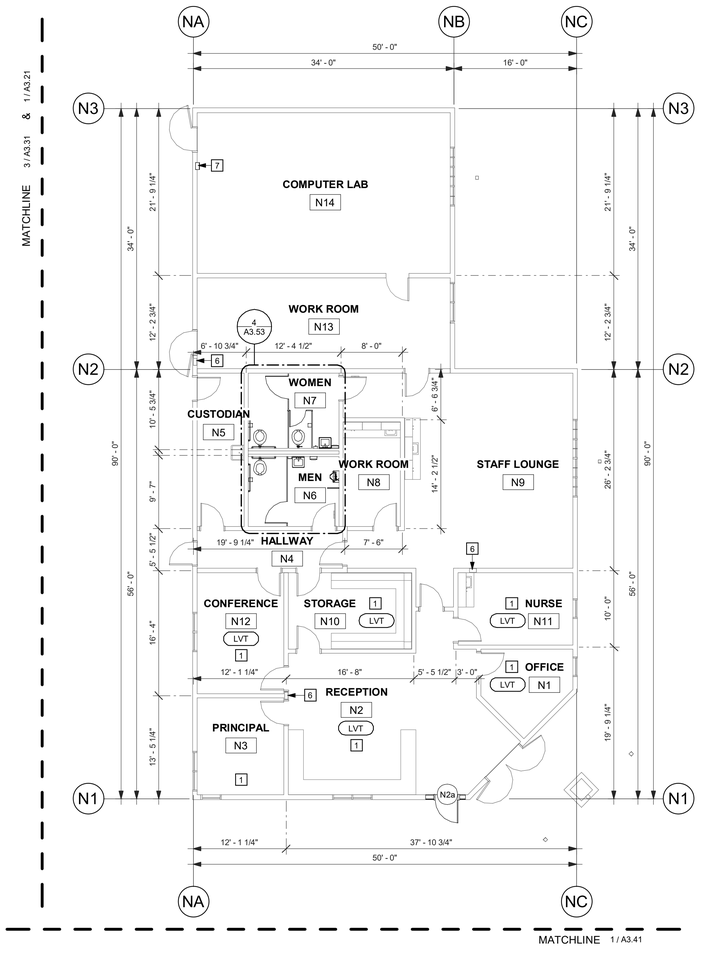
SHEET

NEW FLOOR PLANS - BUILDINGS D & L

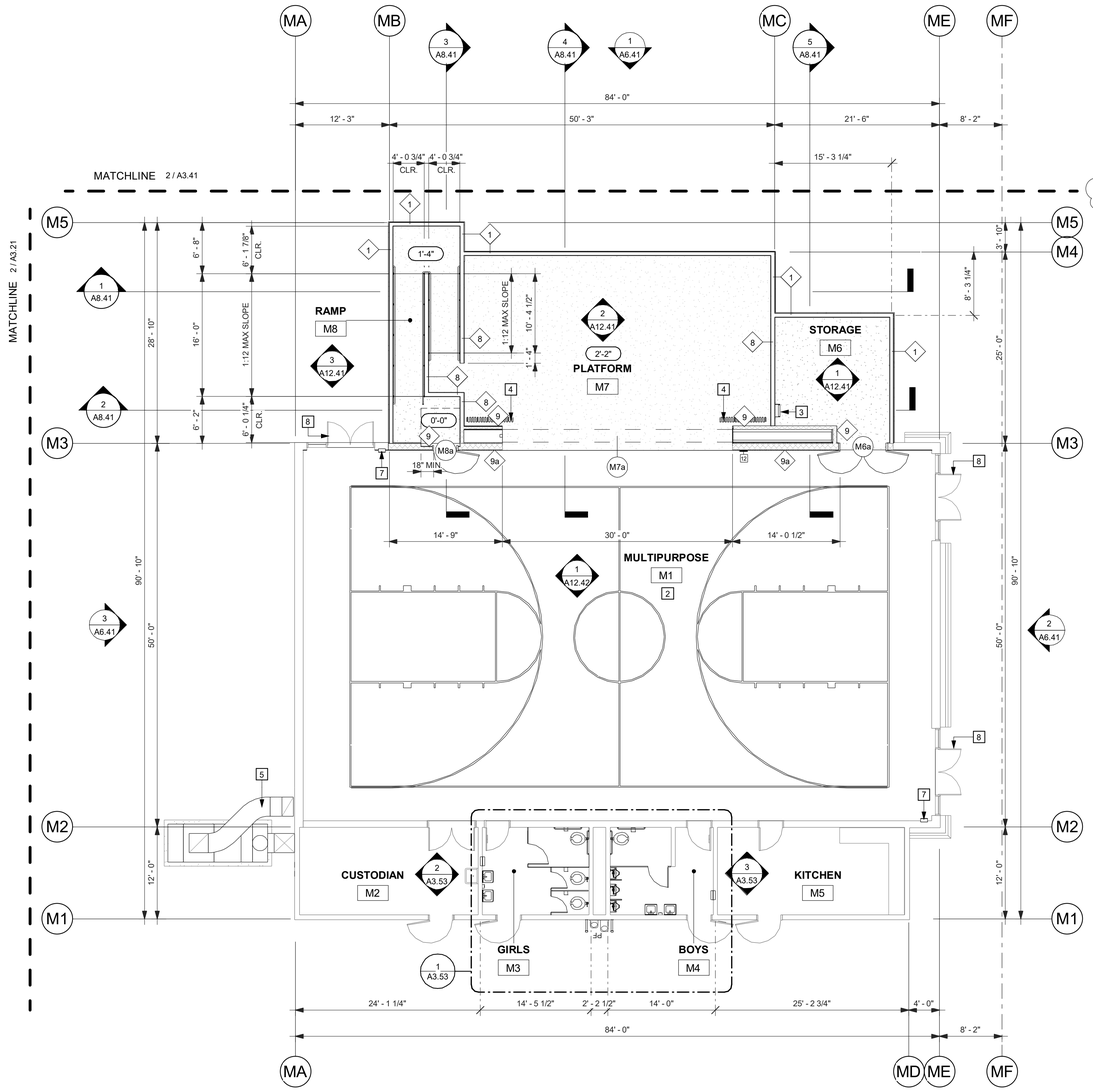
DATE 05/09/2019

JOB # 2018045

SHEET # A3.31



2 BUILDING N FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 BUILDING M FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL (N) EXTERIOR WALLS AND (N) TOILET ROOM WALLS.

E ALL (N) EXTERIOR STUD WALLS SHALL HAVE MIN. R-21 FOIL BACKED INSULATION.

F ALL (N) TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION. 1

G PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

H REFER TO FLOOR PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

I DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

NEW FLOOR PLAN KEYNOTES

1 (N) LVT FLOORING, SEE SPECS FOR MORE INFORMATION
2 (N) RUBBER SPORTS FLOORING
3 (N) ROOF LADDER
4 CURTAINS, REFER TO DETAIL 14/A11.10 AND SPECIFICATIONS
5 (N) MECH UNIT, SEE MECH DRAWINGS
6 (E) FULLY RECESSED FIRE EXTINGUISHER CABINET
7 (E) FIRE EXTINGUISHER INSTALLED IN (N) SEMI-RECESSED CABINET
8 (E) ACCESIBLE DOOR AND HARDWARE

GRAPHIC KEY

WALL TYPES:

EXISTING WALL TO REMAIN.

WALL TYPE. REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.

STUD WALL.

2HR AREA SEPARATION WALL, SEE TYPICAL FIRE BARRIER PROTECTION STENCIL DETAIL.

FIXTURE TYPES:

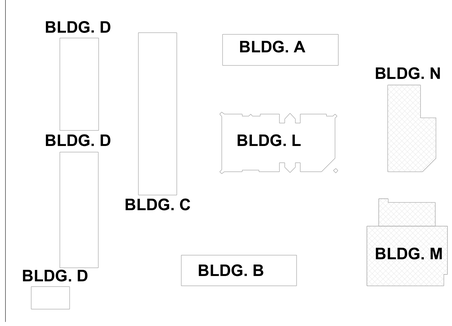
FULLY RECESSED FIRE EXTINGUISHER CABINET.

SEMI RECESSED FIRE EXTINGUISHER CABINET.

SURFACE MOUNTED FIRE EXTINGUISHER CABINET.

XX SIGNAGE. REFER TO TYPICAL SIGNAGE DETAIL

BUILDING KEY



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PROJECT
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN P. STEVENSEN NO. C-25840 STATE OF CALIFORNIA REG. 07/31/19

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
NEW FLOOR PLANS - BUILDINGS M & N

DATE 05/09/2019
JOB # 2018045
SHEET # A3.41

GENERAL SHEET NOTES

A REFER TO FINISH SCHEDULE FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS.

B PROVIDE 6" CONCRETE CURB AT ALL (N) EXTERIOR WALLS AND (N) TOILET ROOM WALLS.

C ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

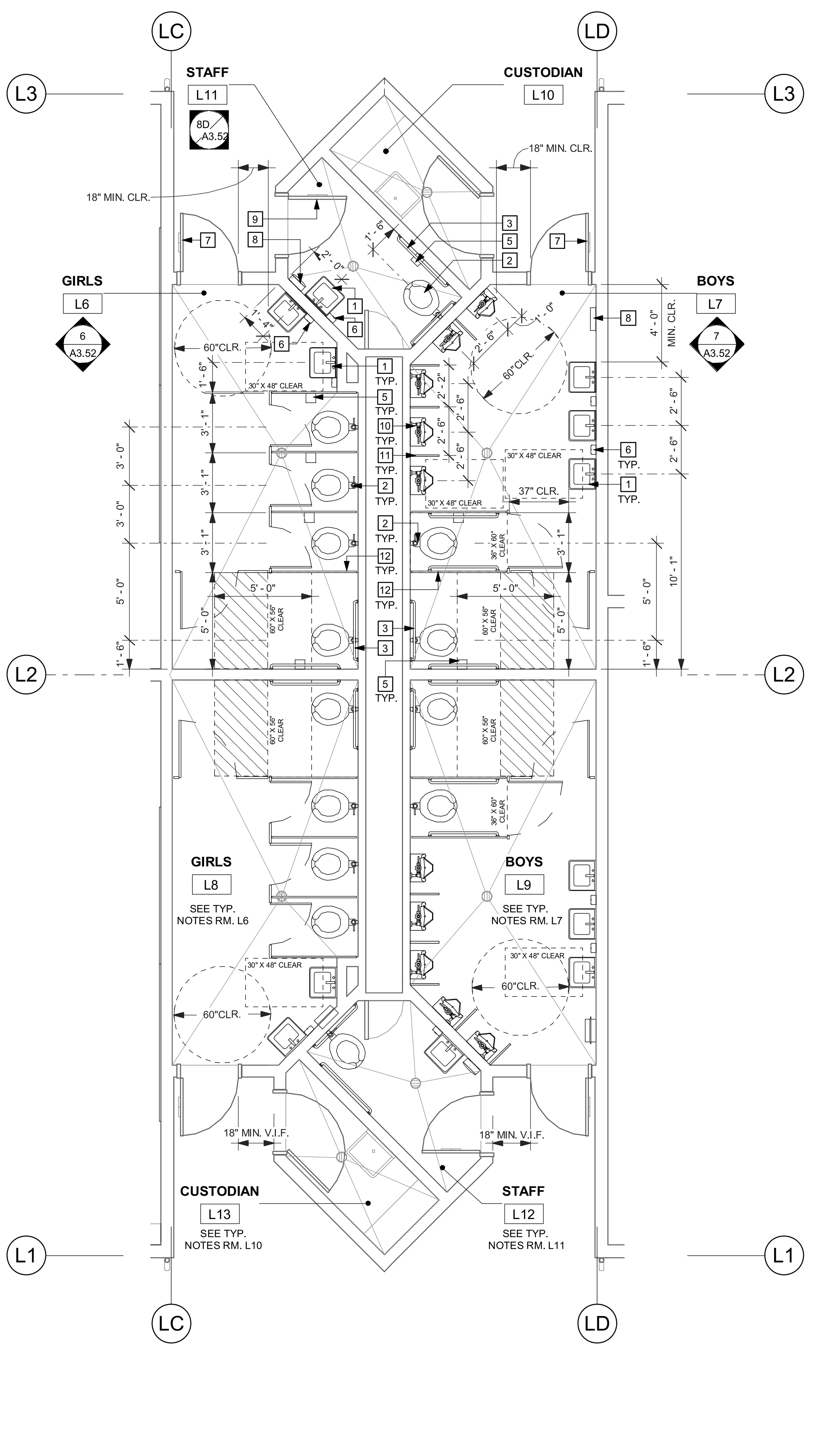
D PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

E FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL.

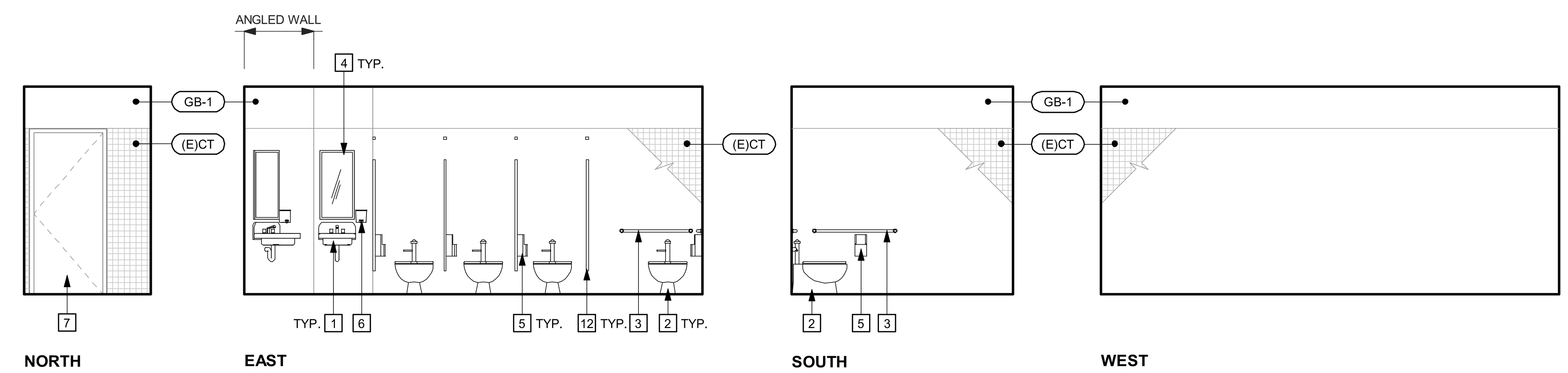
F PATCH ALL EXISTING FINSHES AS REQUIRED

ENLARGED FLOOR PLAN KEYNOTES

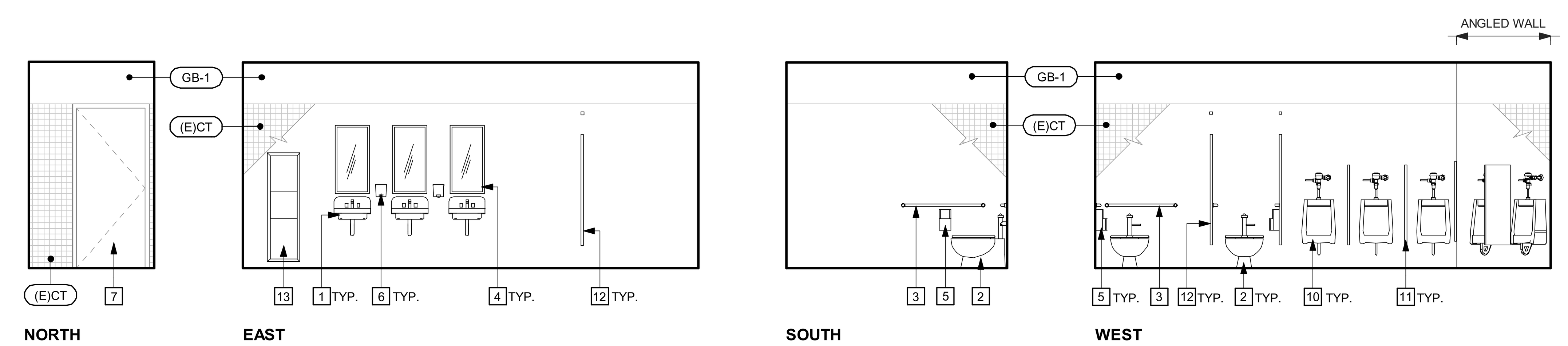
1 (N) SINK, TYP. CONNECT TO (E) PLUMBING. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION.
2 (N) WATER CLOSET, REFER TO PLUMBING DWGS.
3 (N) GRAB BAR, TYP. REFER TO SPECS FOR FURTHER INFORMATION
4 REPLACE (E) MIRROR. REFER TO DETAIL 7/A9.02
5 (N) TOILET PAPER DISPENSER, TYP. REFER TO SPECS FOR FURTHER INFORMATION
6 (N) SOAP DISPENSER, TYP. REFER TO REFER TO SPECS FOR FURTHER INFORMATION
7 (E) DOOR AND FRAME. REMOVE CLOSER AND PROVIDE & INSTALL (N) SIGNAGE. PAINT
8 (N) PAPER TOWEL DISPENSER, TYP. REFER TO SPECS FOR FURTHER INFORMATION
9 (E) DOOR AND HARDWARE. PROVIDE AND INSTALL (N) DIRECTIONAL SIGNAGE TYPE 10b TO BLDG N RESTROOMS
10 (N) URINAL, REFER TO PLUMBING DWGS.
11 (N) 18" x 36" URINAL SCREEN, SEE DETAIL 13/A11.01 FOR FURTHER INFORMATION
12 MODIFY AS REQUIRED AND REINSTALL (E) PARTITIONS AS DIMENSIONED. PATCH TILE WALLS AND FLOORS TO MATCH EXISTING.
13 (N) PAPER TOWEL DISPENSER AND WASTE RECEPTACLE, TYP.
14 (E) FRP TO REMAIN



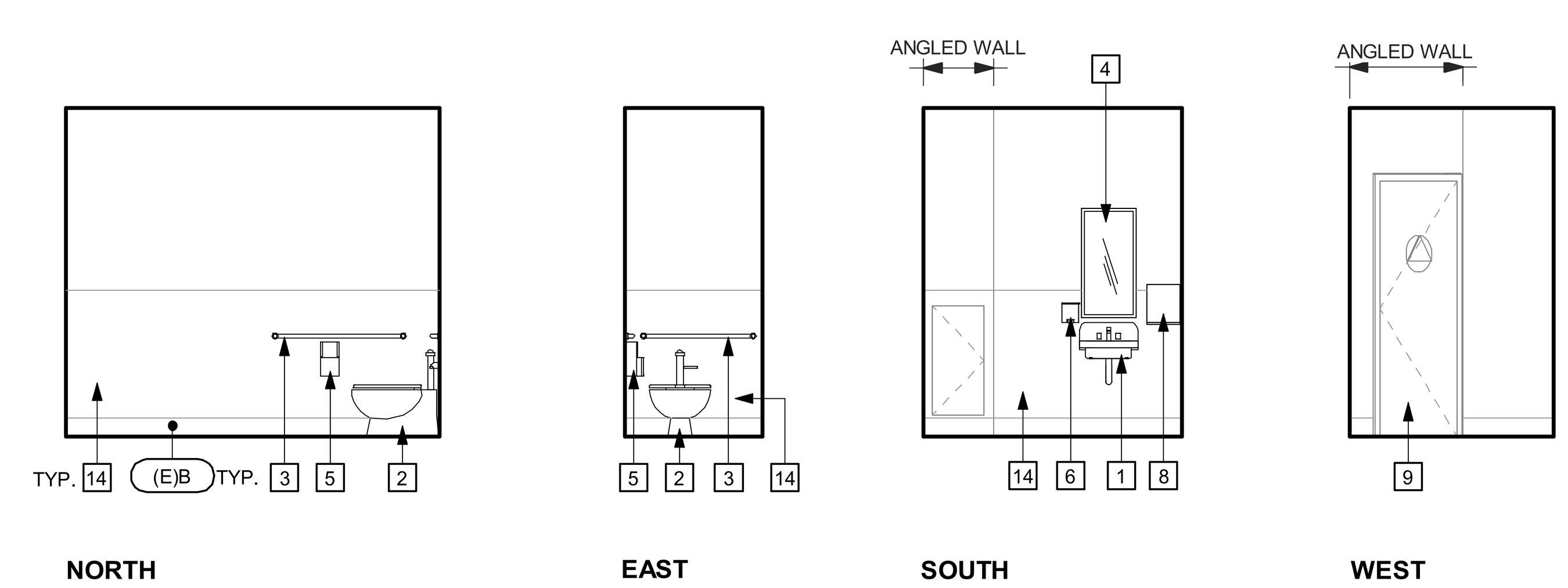
5 ENLARGED RESTROOM PLANS - L6 - L13
SCALE: 1/4" = 1'-0"



6 L6 - GIRLS
SCALE: 1/4" = 1'-0"

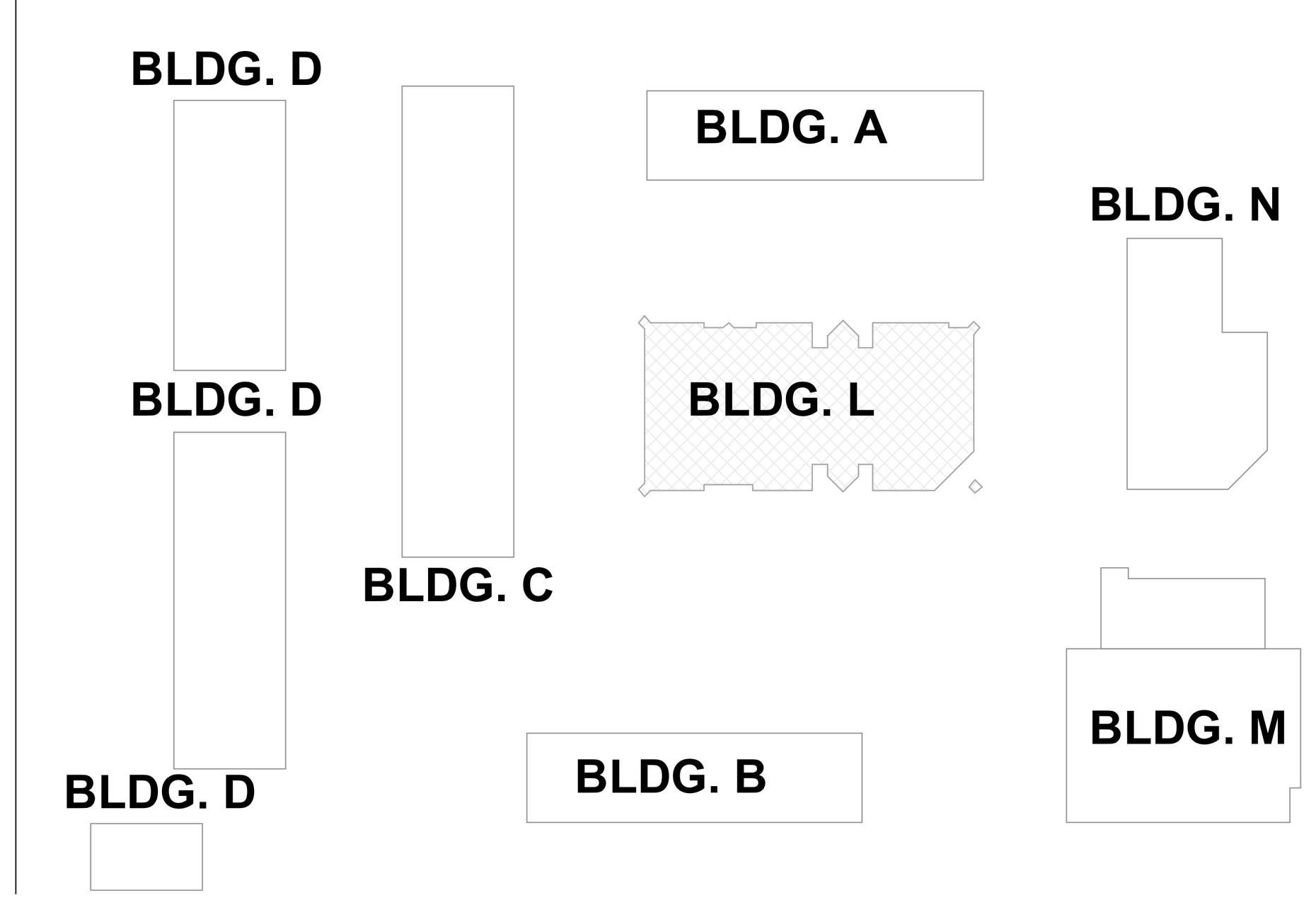


7 L7 -BOYS
SCALE: 1/4" = 1'-0"



8 L11 - STAFF
SCALE: 1/4" = 1'-0"

BUILDING KEY



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STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

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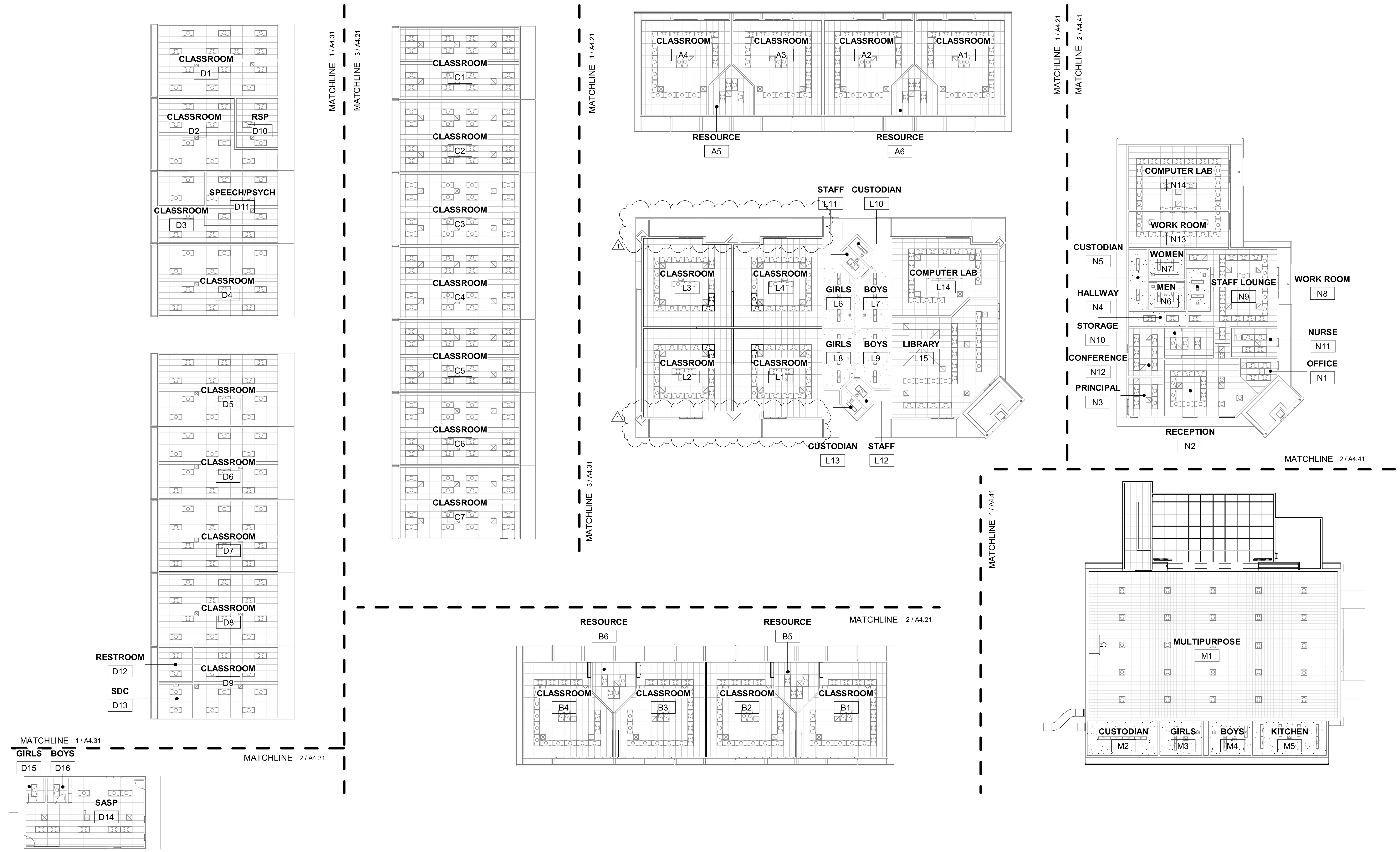
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
ENLARGED RESTROOM PLANS & ELEVATIONS - BUILDINGS L

DATE 05/09/2019
JOB # 2018045
SHEET # **A3.52**



1 **OVERALL REFLECTED CEILING PLAN**
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW PLANS.

B REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

D PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

GRAPHIC KEY

2'-0" x 4'-0" "T" BAR CEILING SYSTEM

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

12" CEILING TILE

GYPSUM BOARD CEILING OR SOFFIT

(E) GYPSUM BOARD CEILING OR SOFFIT

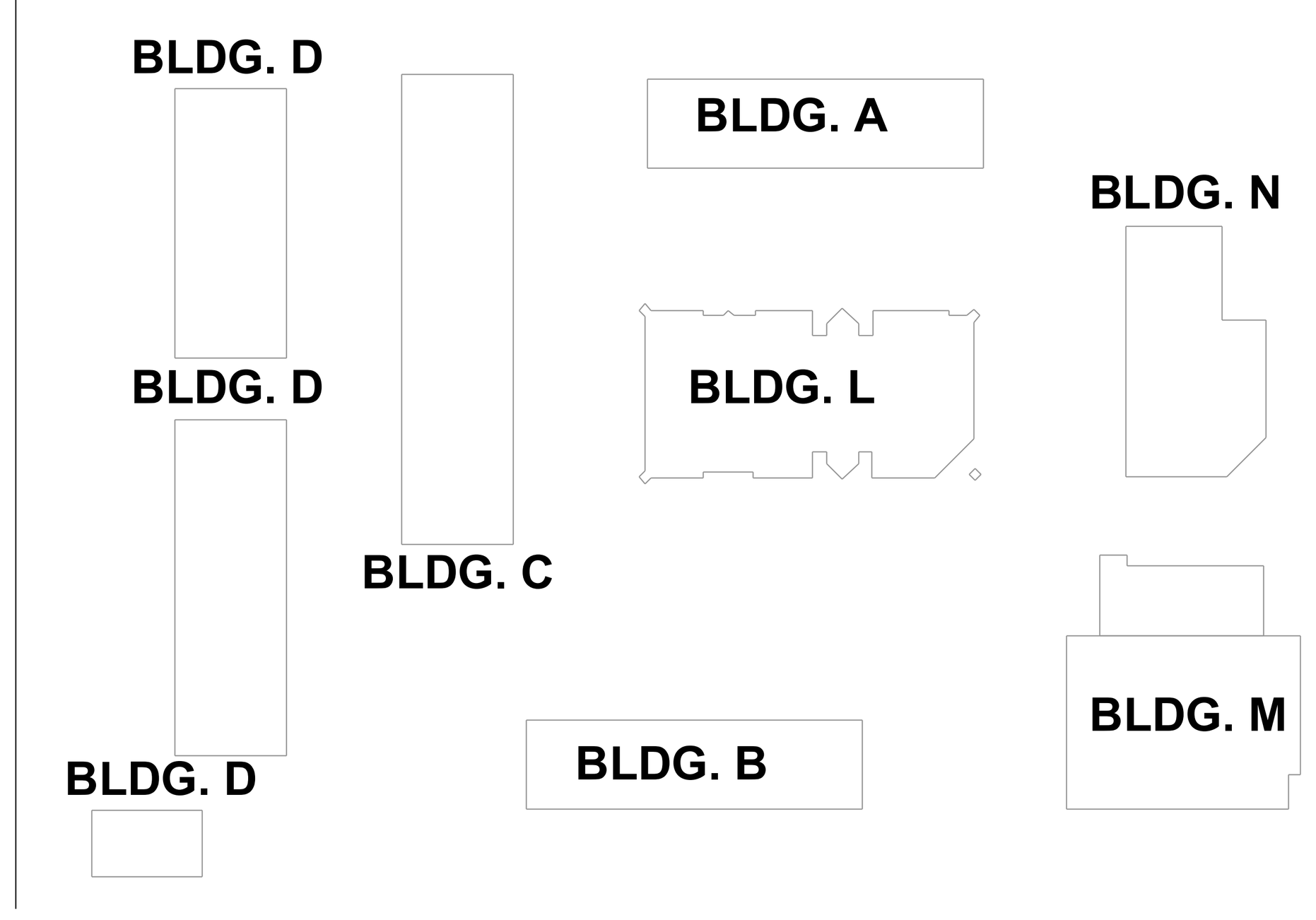
ELECTRICAL SYMBOLS

LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR SIZE, TYPE, AND MANUFACTURER. TO BE LOCATED PER ARCHITECTURAL DRAWINGS.

MECHANICAL SYMBOLS

MECHANICAL REGISTERS AND DIFFUSERS, REFER TO MECHANICAL DRAWINGS FOR SIZE, TYPE, AND MANUFACTURER. TO BE LOCATED PER ARCHITECTURAL DRAWINGS.

BUILDING KEY



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MILESTONES

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DD	
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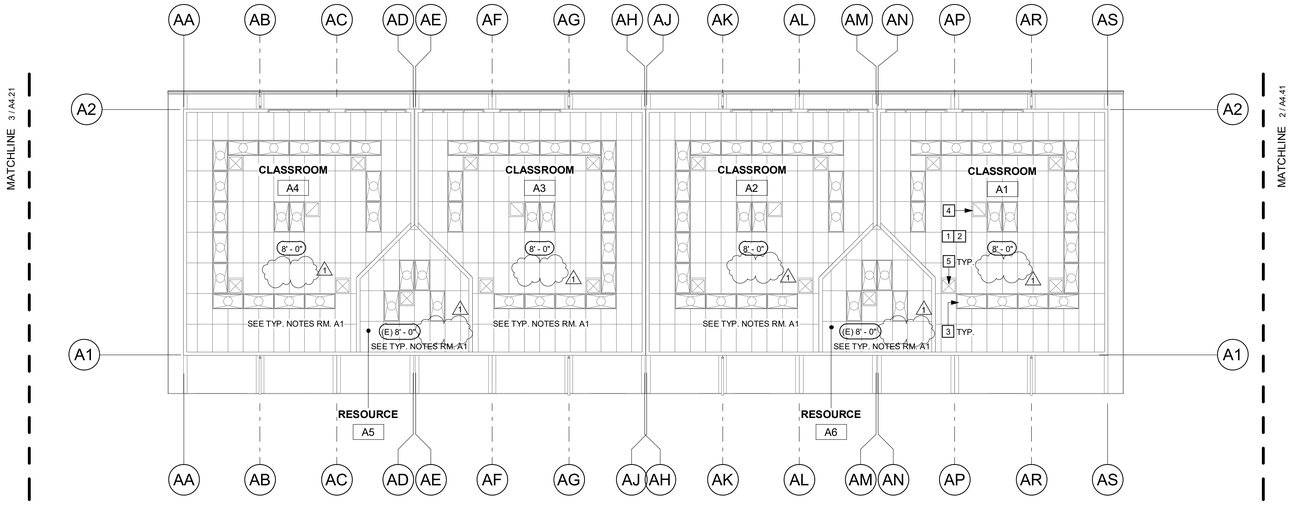
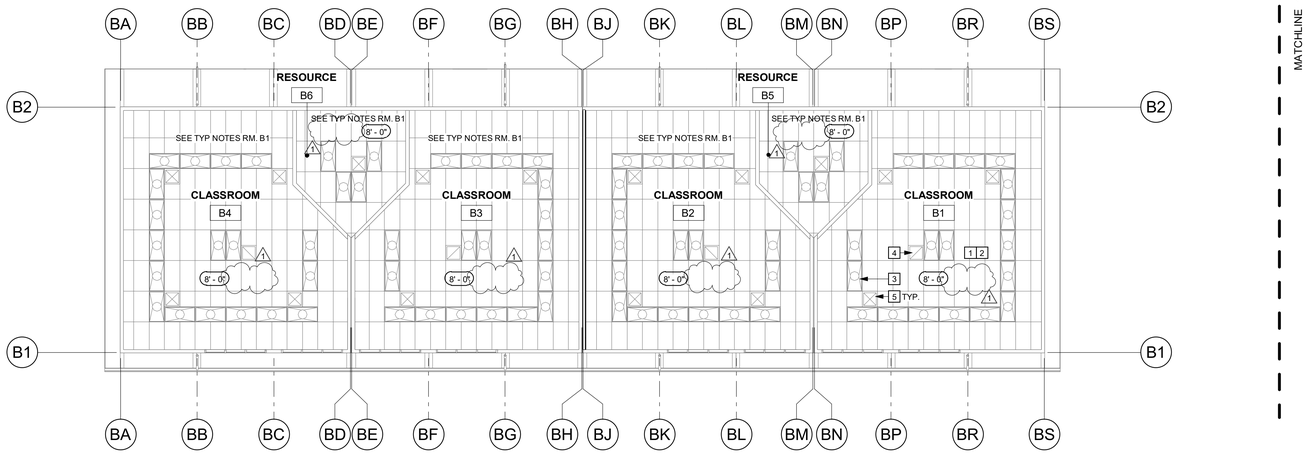
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
OVERALL REFLECTED CEILING PLAN

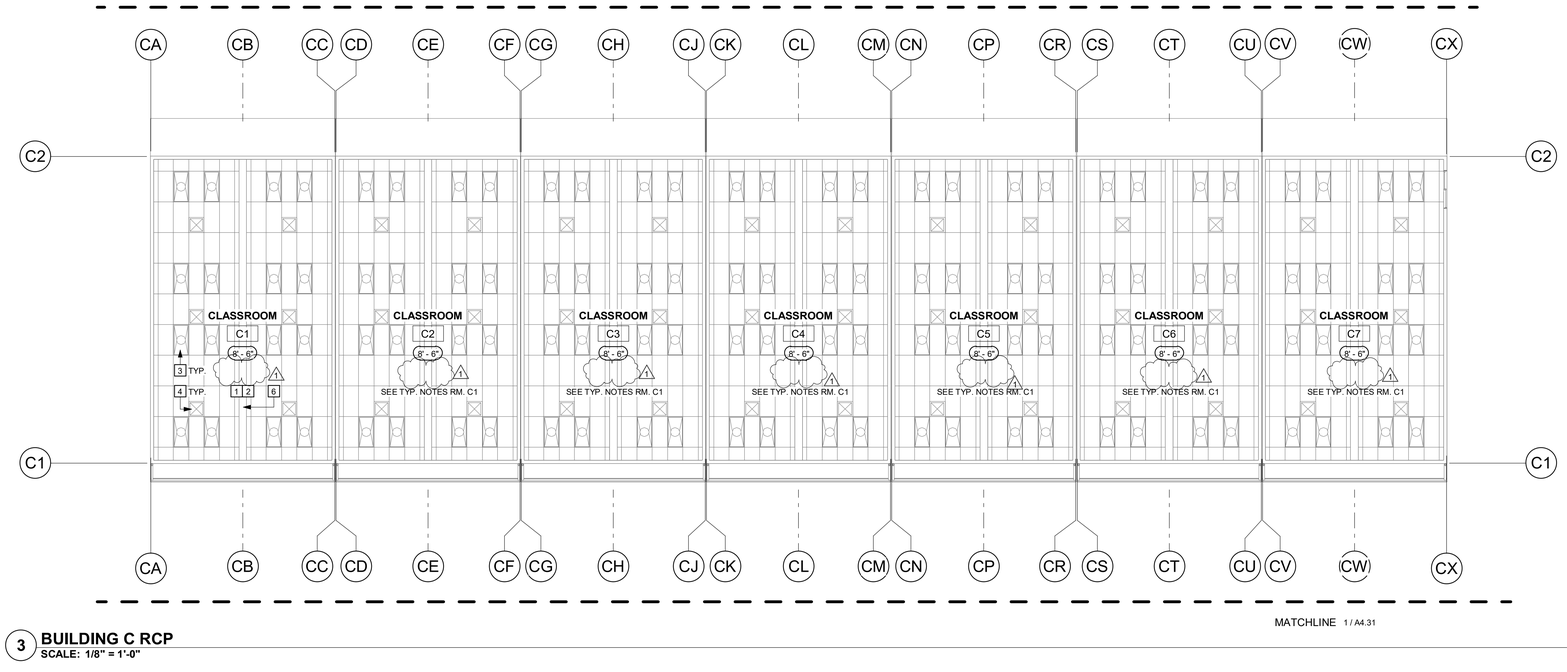
DATE 05/09/2019
JOB # 2018045
SHEET # A4.11



1 BUILDING A DEMO RCP
SCALE: 1/8" = 1'-0"



2 BUILDING B RCP
SCALE: 1/8" = 1'-0"



3 BUILDING C RCP
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW PLANS.

B REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

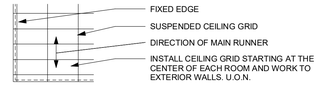
D PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

REFLECTED CEILING PLAN KEYNOTES

1 (N) CEILING TILE. INSTALL ON (E) GRID CEILING.
2 PAINT (E) CEILING GRID
3 (E) RECESSED LIGHT FIXTURE. REMOVE, STORE AND PROTECT LIGHT FIXTURES AS REQUIRED FOR CEILING GRID WORK AND REINSTALL.
4 (E) HVAC REGISTER. REMOVE AND REINSTALL AS REQUIRED FOR CEILING GRID WORK. CLEAN AND PAINT. TYP.
5 (E) HVAC DIFFUSER. REMOVE AND REINSTALL AS REQUIRED FOR CEILING GRID WORK. CLEAN AND PAINT. TYP.
6 (E) PORTABLE MODULE LINE COVER. CLEAN, PREP, AND PAINT.

GRAPHIC KEY

2'-0" x 4'-0" "T" BAR CEILING SYSTEM



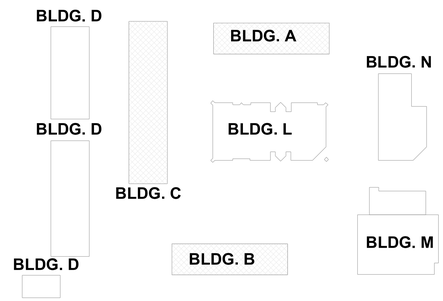
ELECTRICAL SYMBOLS

LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR SIZE, TYPE, AND MANUFACTURER. TO BE LOCATED PER ARCHITECTURAL DRAWINGS.

MECHANICAL SYMBOLS

MECHANICAL REGISTERS AND DIFFUSERS, REFER TO MECHANICAL DRAWINGS FOR SIZE, TYPE, AND MANUFACTURER. TO BE LOCATED PER ARCHITECTURAL DRAWINGS.

BUILDING KEY



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PROJECT
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Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

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LICENSED ARCHITECT JOHN P. DITTENBER III NO. C-25840 REG. 8/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

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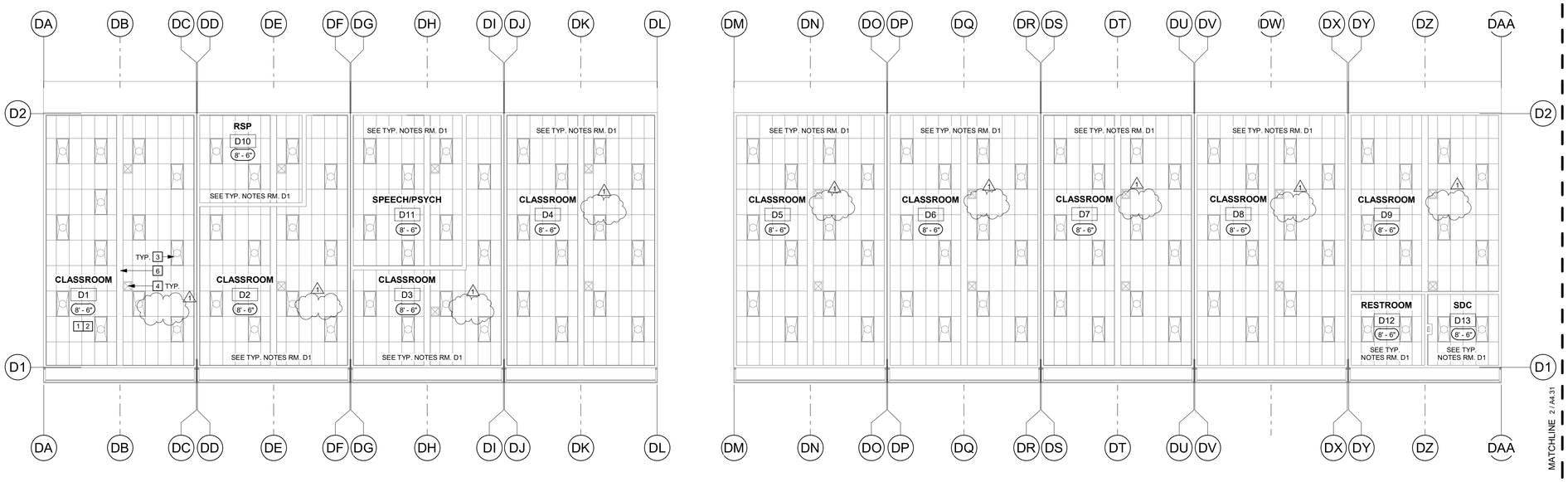
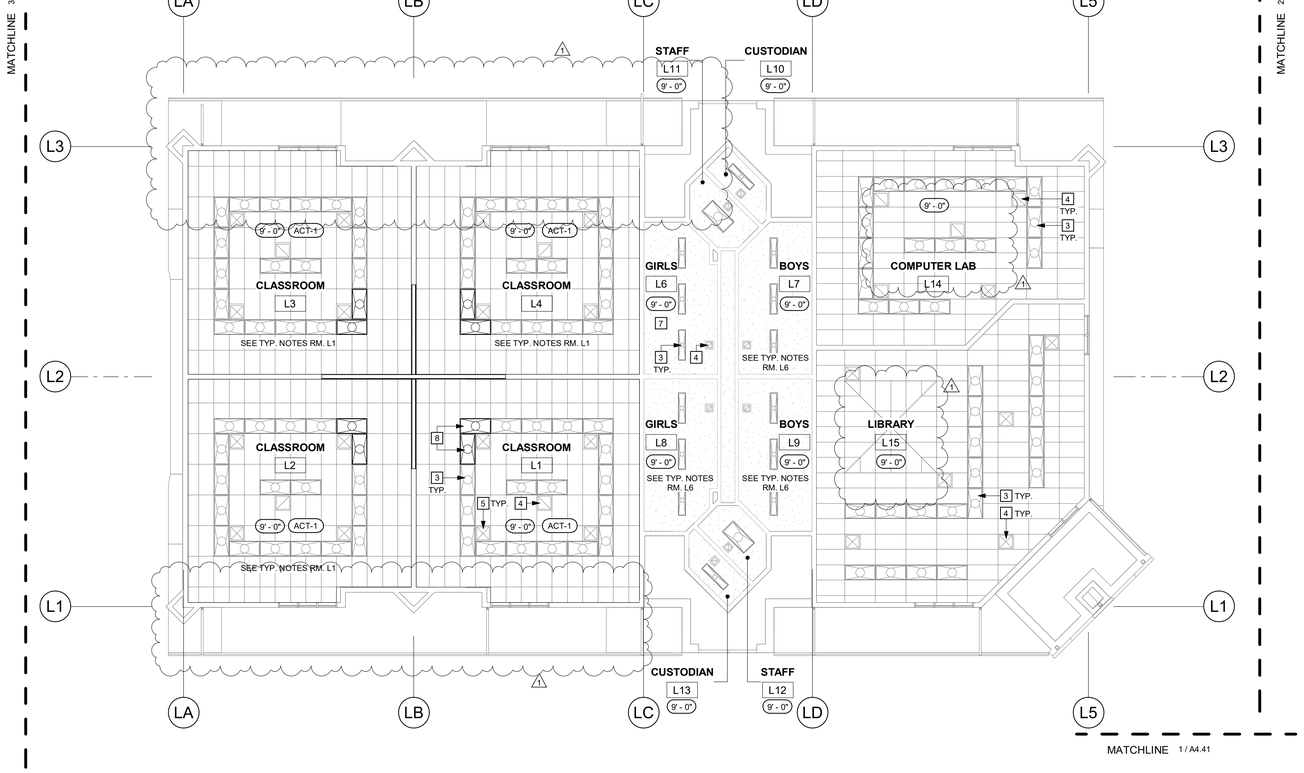
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
REFLECTED CEILING PLANS - BUILDINGS A, B & C

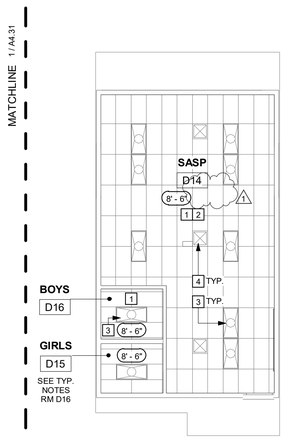
DATE 05/09/2019
JOB # 2018045
SHEET # A4.21



1 **BUILDING D RCP - PARTIAL**
SCALE: 1/8" = 1'-0"



3 **BUILDING L RCP**
SCALE: 1/8" = 1'-0"



2 **BUILDING D RCP - PARTIAL**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW PLANS.

B REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

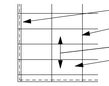
D PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

REFLECTED CEILING PLAN KEYNOTES

1 (N) CEILING TILE. INSTALL ON (E) GRID CEILING.
2 PAINT (E) CEILING GRID
3 (E) RECESSED LIGHT FIXTURE. REMOVE, STORE AND PROTECT LIGHT FIXTURES AS REQUIRED FOR CEILING GRID WORK AND REINSTALL
4 (E) HVAC REGISTER. REMOVE AND REINSTALL AS REQUIRED FOR CEILING GRID WORK. CLEAN AND PAINT. TYP.
5 (E) HVAC DIFFUSER. REMOVE AND REINSTALL AS REQUIRED FOR CEILING GRID WORK. CLEAN AND PAINT. TYP.
6 (E) PORTABLE MODULE LINE COVER. CLEAN, PREP, AND PAINT.
7 (E) GYP. BD. CEILING, PAINT, TYP.
8 (N) LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

GRAPHIC KEY

2'-0" x 4'-0" "T" BAR CEILING SYSTEM



GYPSUM BOARD CEILING OR SOFFIT

(E) GYPSUM BOARD CEILING OR SOFFIT

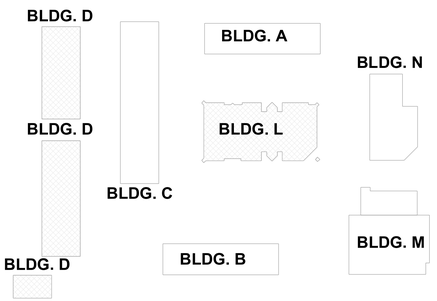
ELECTRICAL SYMBOLS

LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR SIZE, TYPE, AND MANUFACTURER. TO BE LOCATED PER ARCHITECTURAL DRAWINGS.

MECHANICAL SYMBOLS

MECHANICAL REGISTERS AND DIFFUSERS, REFER TO MECHANICAL DRAWINGS FOR SIZE, TYPE, AND MANUFACTURER. TO BE LOCATED PER ARCHITECTURAL DRAWINGS.

BUILDING KEY



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PROJECT
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Grass Valley School District
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CONSULTANT

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LICENSED ARCHITECT JOHN D. SUTTENFIELD NO. C-25840 RENEWAL 08/31/2019 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

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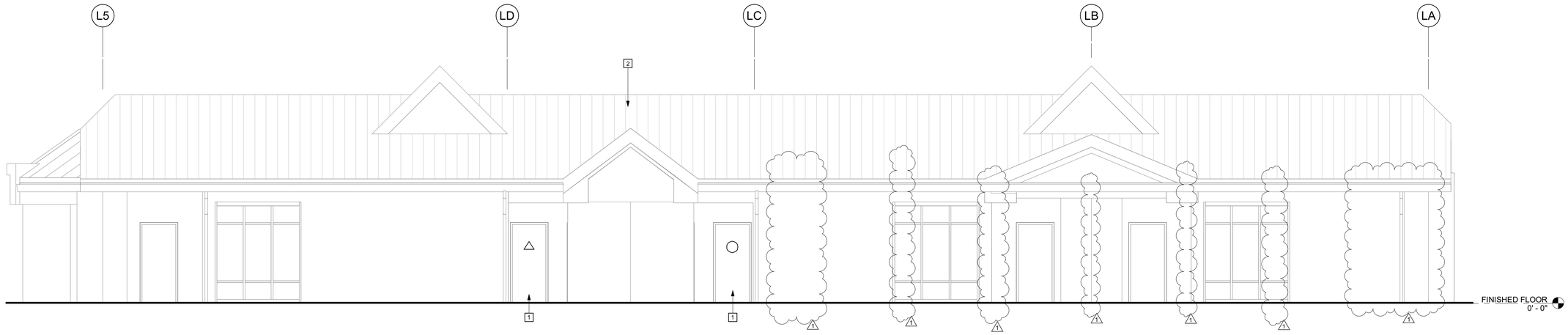
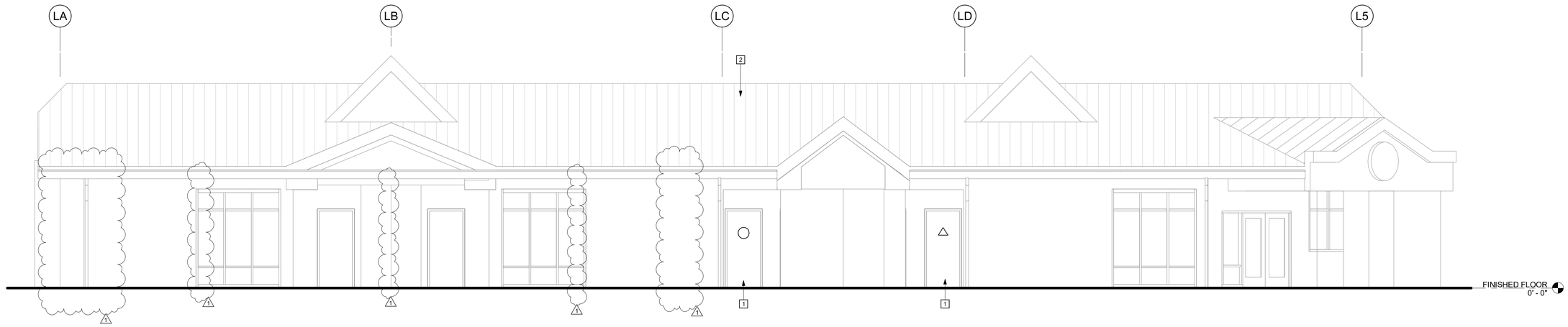
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
REFLECTED CEILING PLAN - BUILDINGS D & L

DATE 05/09/2019
JOB # 2018045
SHEET # A4.31



1 BUILDING L - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 BUILDING L - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A REFER TO A11.01 FINISH LEGEND FOR EXTERIOR FINISHES, MATERIALS AND COLORS. EXTERIOR COLORS TO MATCH (E)

B RWL, SCUPPER GUTTER, COPING AND FLASHING TO MATCH ADJACENT FINISH COLORS.

C SEE PLANS AND DOOR SCHEDULE FOR SIGNAGE.

D EXTERIOR WALL MOUNTED LIGHT FIXTURES TO BE 80" MIN. ABOVE FINISH GRADE.

E THE CONTRACTOR SHALL PAINT ALL VISIBLE, EXPOSED COMPONENTS INCLUDING BUT NOT LIMITED TO WINDOW AND DOOR FRAMES, DOORS, WALLS, COLUMNS, BEAMS, FASCIAS, SOFFITS, FLUES, PIPES, CONDUIT, RAIN WATER LEADERS, HANDRAILS, GUTTERS, FENCES, FLASHING, EQUIPMENT, LOUVERS, VENTS, FIXTURES, BENCHES, ETC. U.O.N.

EXTERIOR ELEVATION KEYNOTES

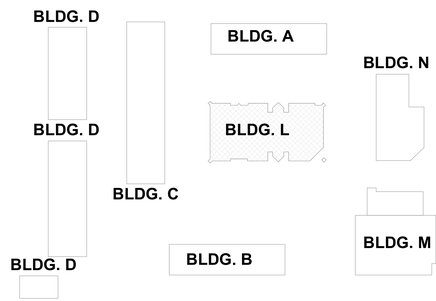
1 (E) DOOR AND FRAME, PROVIDE AND INSTALL (N) SIGNAGE AND PAINT
2 (E) STANDING SEAM METAL ROOF TO BE REPAIRED; SEE SCOPE IN SPECIFICATION

GRAPHIC KEY

CEMENT PLASTER

(E) STANDING SEAM METAL ROOF

BUILDING KEY



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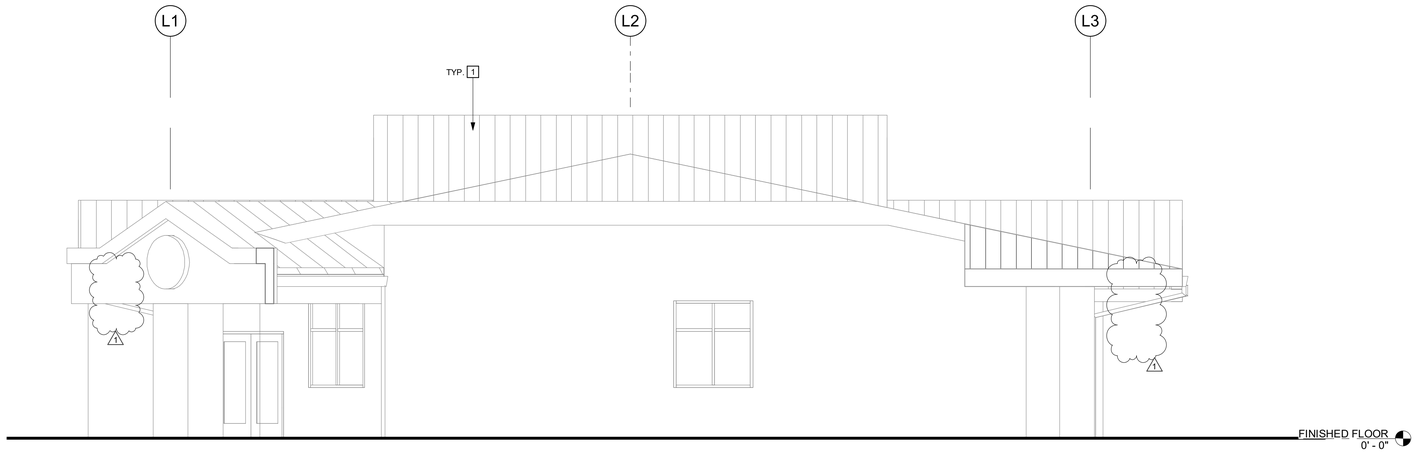
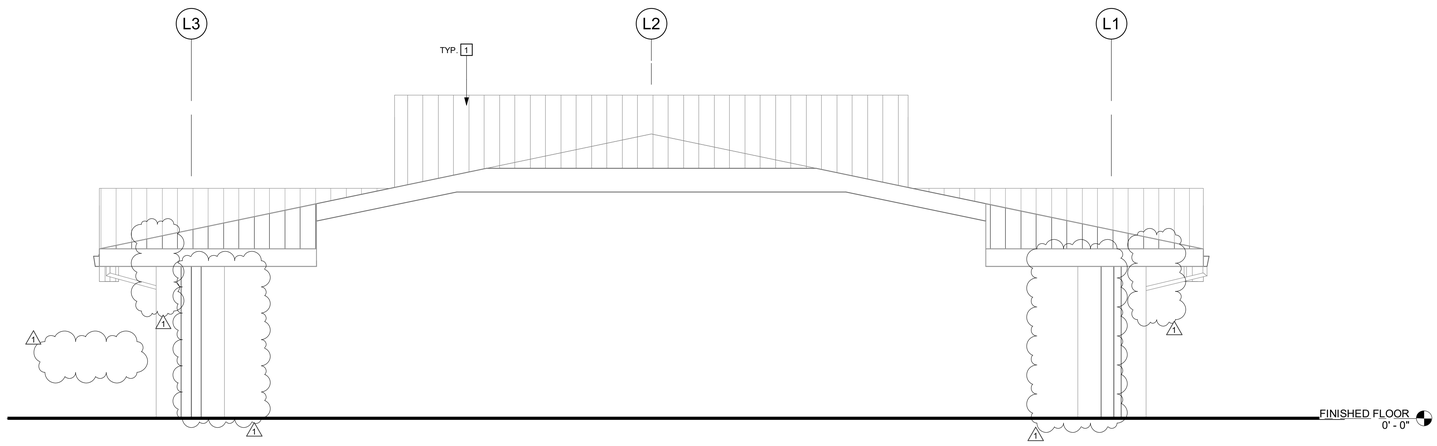
DSA BC	05/09/2019

SHEET
EXTERIOR ELEVATIONS - BUILDING L

DATE 05/09/2019
JOB # 2018045
SHEET # A6.31



1 BUILDING L - EAST ELEVATION
SCALE: 1/4" = 1'-0"



2 BUILDING L - WEST ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A REFER TO A11.01 FINISH LEGEND FOR EXTERIOR FINISHES, MATERIALS AND COLORS. EXTERIOR COLORS TO MATCH (E)

B RWL, SCUPPER GUTTER, COPING AND FLASHING TO MATCH ADJACENT FINISH COLORS.

C SEE PLANS AND DOOR SCHEDULE FOR SIGNAGE.

D EXTERIOR WALL MOUNTED LIGHT FIXTURES TO BE 80" MIN. ABOVE FINISH GRADE.

E THE CONTRACTOR SHALL PAINT ALL VISIBLE, EXPOSED COMPONENTS INCLUDING BUT NOT LIMITED TO WINDOW AND DOOR FRAMES, DOORS, WALLS, COLUMNS, BEAMS, FASCIAS, SOFFITS, FLUES, PIPES, CONDUIT, RAIN WATER LEADERS, HANDRAILS, GUTTERS, FENCES, FLASHING, EQUIPMENT, LOUVERS, VENTS, FIXTURES, BENCHES, ETC. U.O.N.

EXTERIOR ELEVATION KEYNOTES

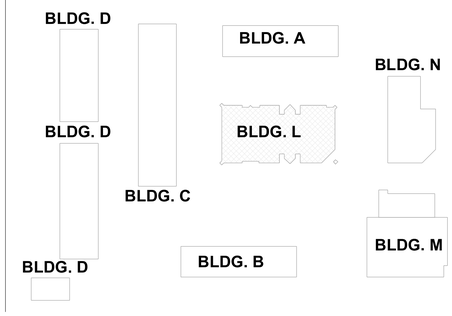
1 (E) STANDING SEAM METAL ROOF TO BE REPAIRED; SEE SCOPE IN SPECIFICATION

GRAPHIC KEY

CEMENT PLASTER

(E) STANDING SEAM METAL ROOF

BUILDING KEY



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SHEET

EXTERIOR ELEVATIONS - BUILDING L

DATE 05/09/2019

JOB # 2018045

SHEET # A6.32

DOOR ID	OPENING SIZE		DOOR			FRAME		DETAILS (Sheet A10.02 U.O.N.)			FIRE RATING (MIN.)	HARDWARE GROUP	SIGN		COMMENTS
	WIDTH	HEIGHT	TYPE	FINISH	GLAZING	TYPE	FINISH	HEAD	JAMB	SILL			TYPE	LANGUAGE	
L2c	3' - 0"	7' - 0"	B	PAINT	--	F1	PAINT	5	5		--	27	-		
L4c	3' - 0"	7' - 0"	B	PAINT	--	F1	PAINT	5	5		--	27	-		
M6a	6' - 0"	7' - 0"	C	PAINT	--	F2	PAINT	5	5		2 Hour	3	2		
M7a	30' - 0"	10' - 0"	D	PREFINISHED	--		PREFINISHED				2 Hour	-	-		
M8a	3' - 0"	7' - 0"	A	PAINT	--	F1	PAINT	5	5		2 Hour	2	2		
N2a	3' - 0"	7' - 0"	B	PAINT	--	F1	PAINT	6	6	7	--	1	1		

Table title: DOOR SCHEDULE

DOOR SCHEDULE GENERAL NOTES

1 CONTRACTOR SHALL COORDINATE, PRIOR TO FABRICATION, DOOR FRAME DEPTH TO ACCEPT ALL WALL FINISHES AS DETAILED IN THE DRAWINGS.

2 ALL ROOMS WITH AN OCCUPANCY OF 5 OR MORE PERSONS SHALL BE LOCKABLE FROM THE INSIDE IN COMPLIANCE WITH DSA BULLETIN 11-05, EXCEPTIONS AS NOTED IN THE BULLETIN.

3 REFER TO DETAIL 12/A10.01 FOR SIGN TYPES.

4 REFER TO DETAIL 10/A10.01 FOR SIGN PLACEMENT.

5 CONTRACTOR SHALL VERIFY SIGN LANGUAGE WITH DISTRICT PRIOR TO FABRICATION.

6 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION ABOUT DOOR HARDWARE GROUPS.

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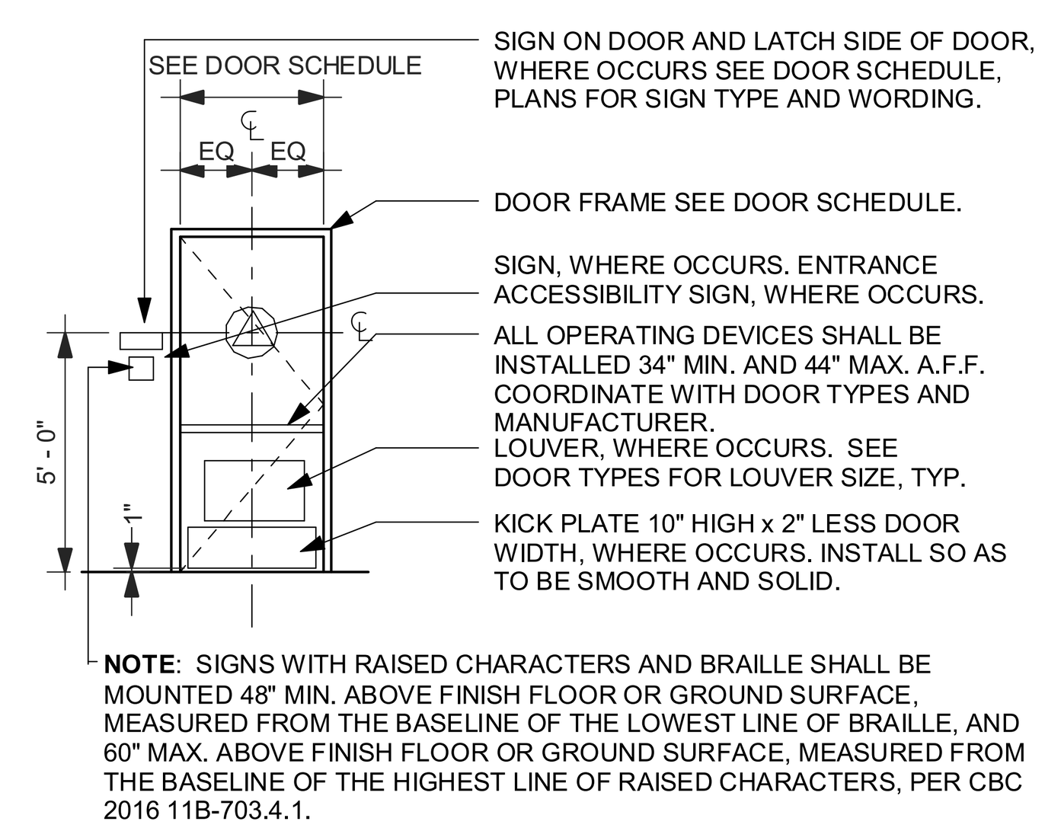
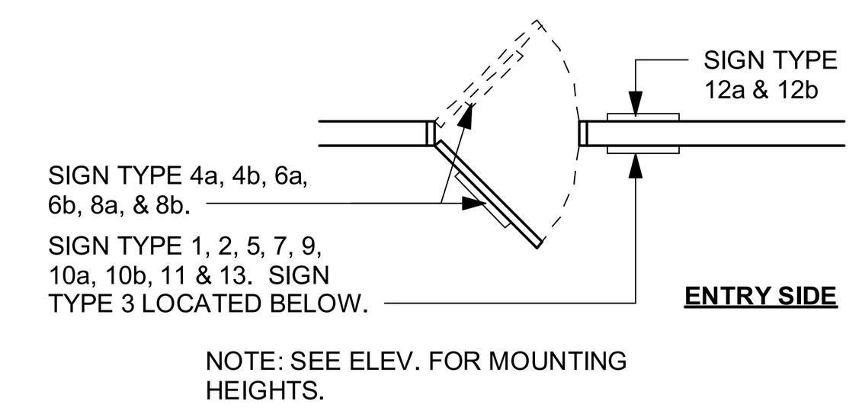


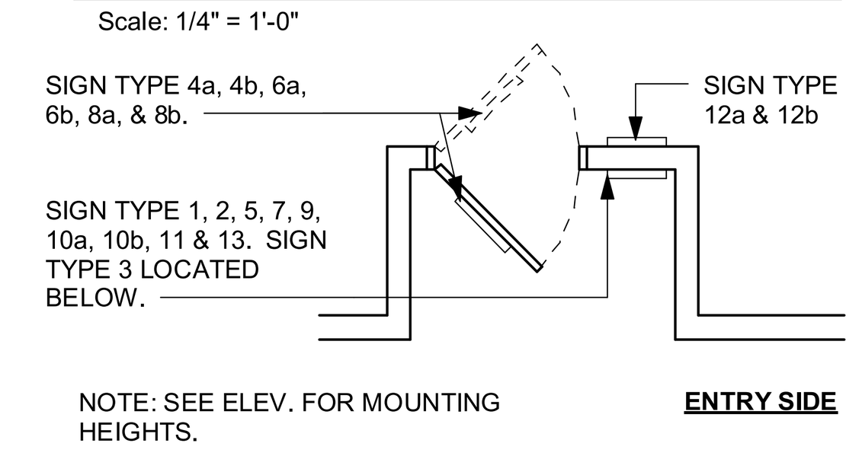
NOTE: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE MOUNTED 48" MIN. ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE, AND 60" MAX. ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS, PER CBC 2016 11B-703.4.1.

TYPICAL DOOR & FRAME ELEVATION
Scale: 1/4" = 1'-0"



NOTE: SEE ELEV. FOR MOUNTING HEIGHTS.

TYPICAL PLAN SITUATION
Scale: 1/4" = 1'-0"



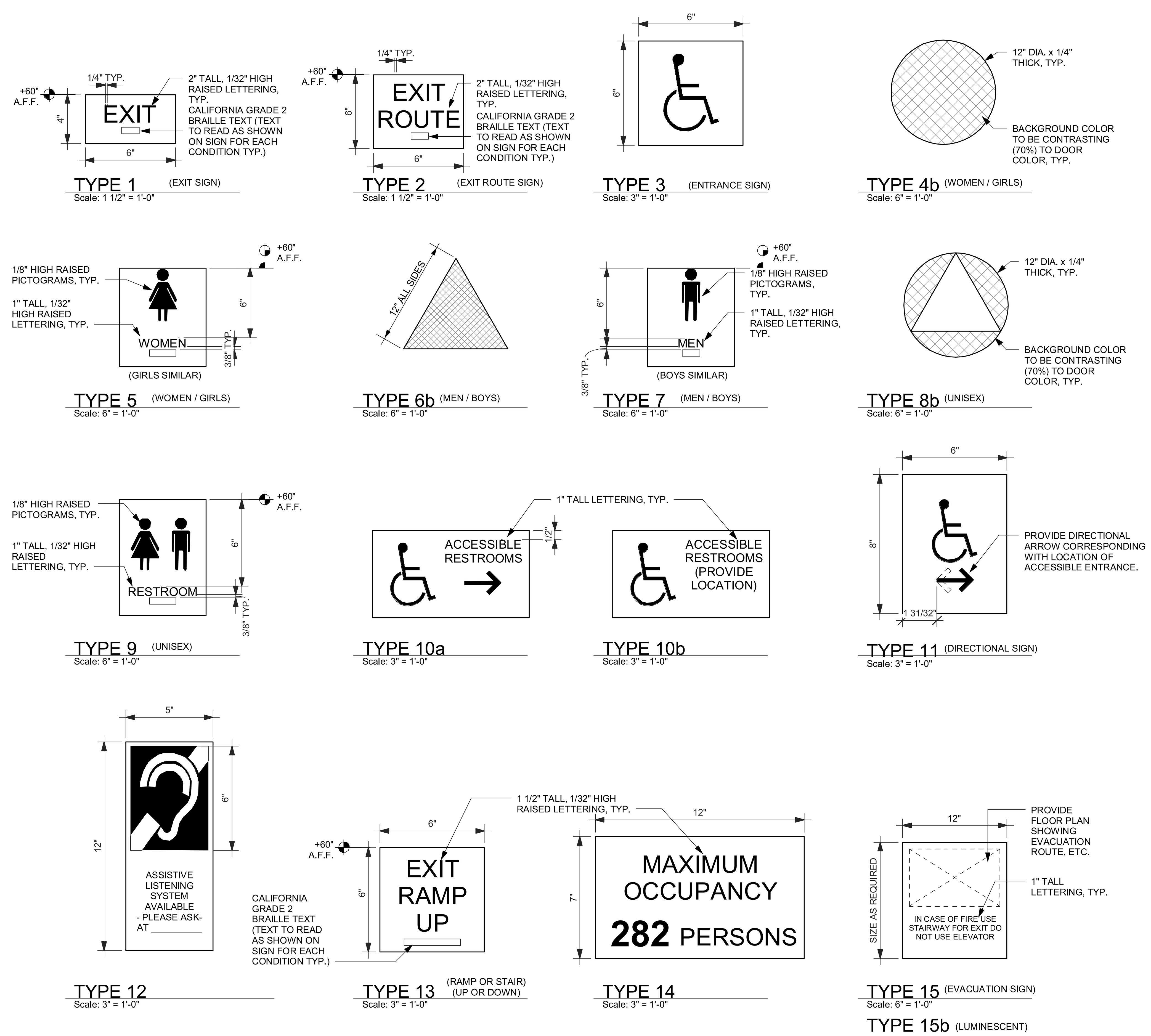
NOTE: SEE ELEV. FOR MOUNTING HEIGHTS.

OPTIONAL PLAN SITUATION
Scale: 1/4" = 1'-0"

NOTES:

1. PROVIDE TRIANGULAR SIGN (WITH 12" SIDES) AT ALL MEN'S AND BOY'S, AND CIRCULAR SIGN (WITH 12" DIAMETER) AT ALL WOMEN'S AND GIRL'S TOILET DOORWAYS AND WALL ADJACENT TO LATCH LEADING TO SANITARY FACILITIES PER CBC 2016 SECTION 11B-216.8 & 11B-703.7.2.6, MOUNTED AT 5'-0" TO CENTER OF SIGN TO FINISH FLOOR.
2. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF CLOSING. ALL DOORS TO COMPLY WITH 2013 CBC, SEC. 716.
3. ALL 20 MINUTE RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP. (PER U.B.C. STANDARDS)
4. ALL DOORS SHALL BE 1-3/4" THICK U.O.N.
5. ALUMINUM EXTERIOR SIGNAGE FRAMES SHALL BE ATTACHED TO SUBSTRATE WITH VANDAL PROOF FASTENERS WITH EXPANSION SHIELDS. NAME OR ROOM NAME PLATES SHALL BE ATTACHED TO FRAME WITH BRASS SCREWS, AS APPROVED BY ARCHITECT.
6. ALL BRAILLE TEXT SHALL BE CALIFORNIA GRADE 2 BRAILLE PER TITLE 24, SECTION 11B-703.3, TYP.
7. ALL SIGNS AND IDENTIFICATION (AT MAIN ENTRANCE, TOILETS, PERMANENT ASSISTIVE LISTENING, ETC. SHALL COMPLY WITH TITLE 24 , AND CBC SECTIONS 11B-216 AND 11B-703.1 THROUGH 11B-703.7.
8. CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS IN FIELD.

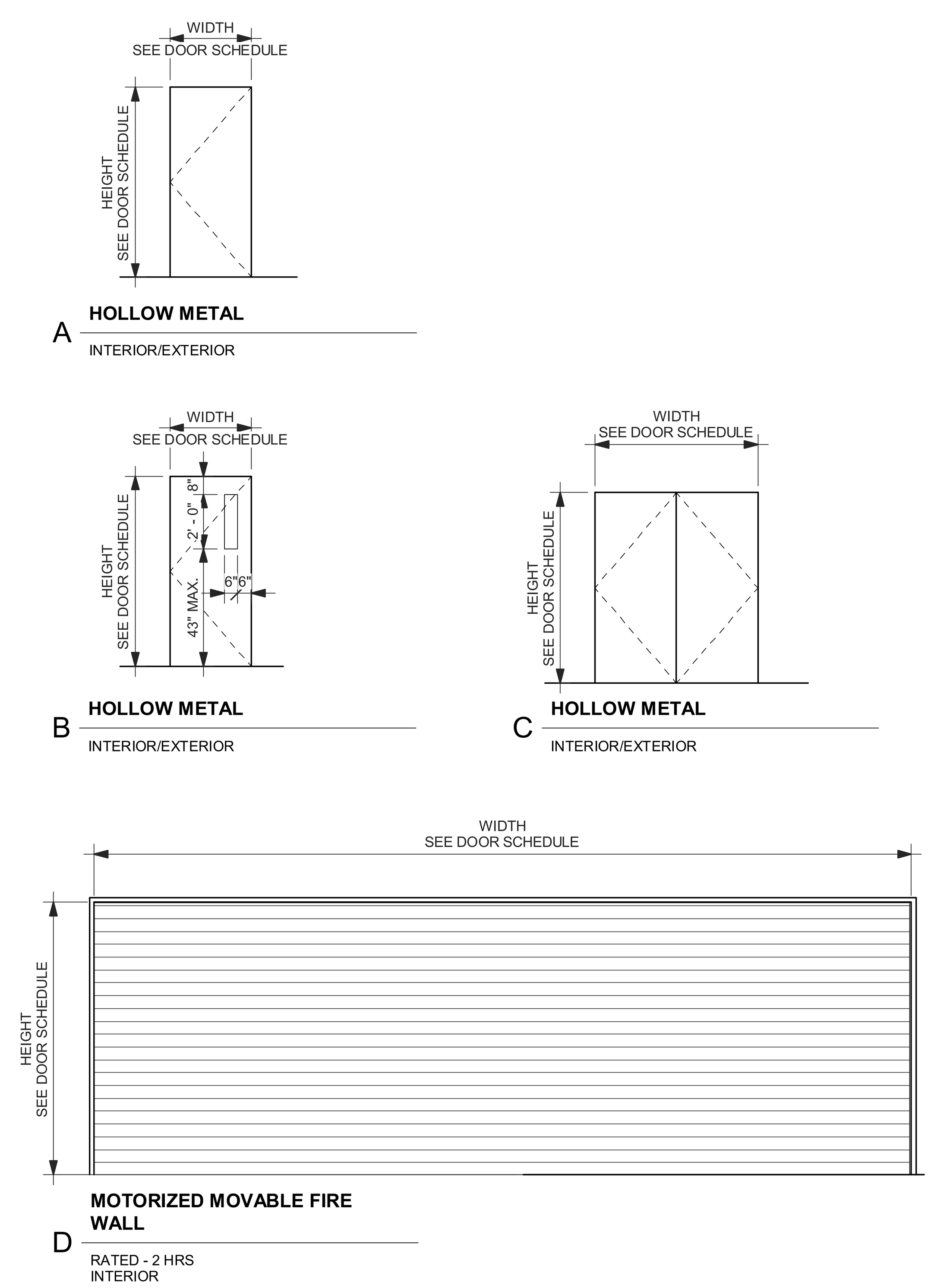
10 TYPICAL DOOR NOTES
SCALE: 1/4" = 1'-0"



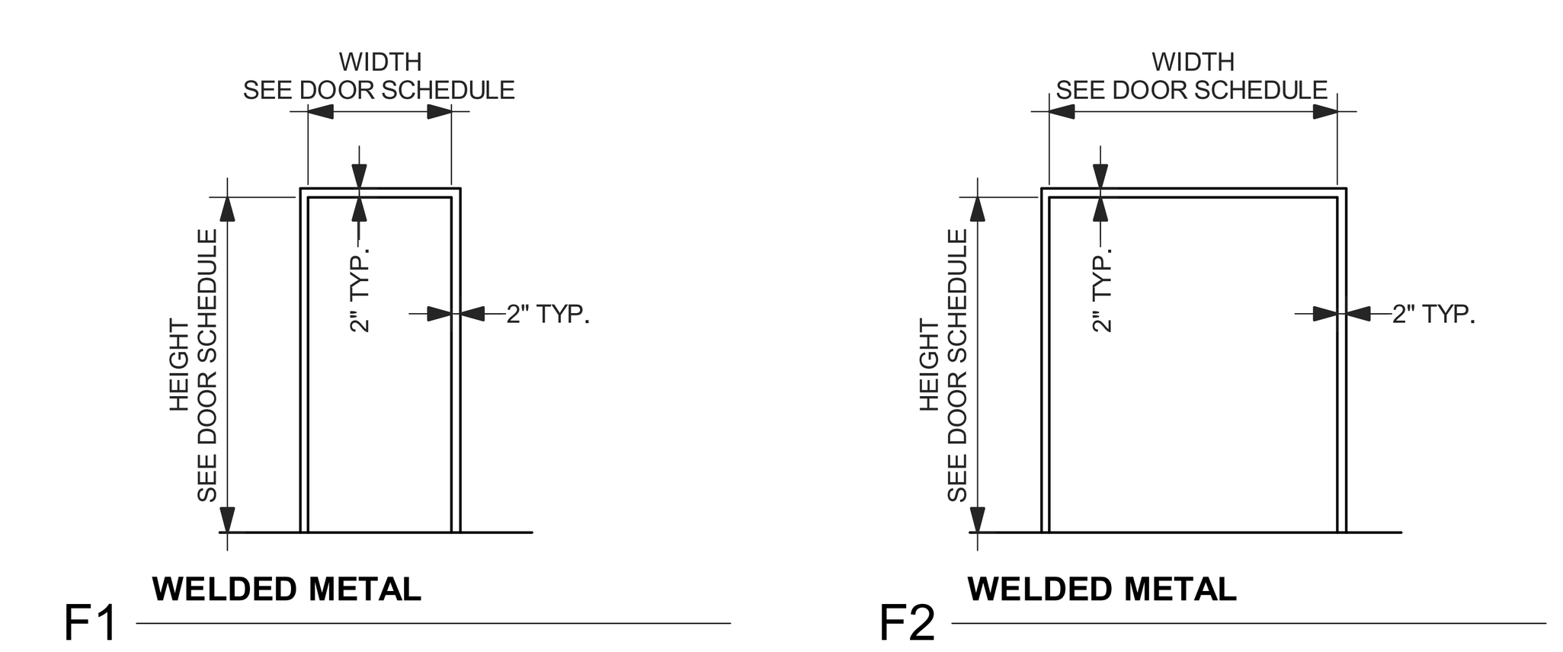
NOTES:
1. ALL ROOM NAMES & CLASSROOM NUMBERS SHALL BE VERIFIED WITH THE OWNER PRIOR TO FABRICATION.
2. ALL FONTS SHALL BE "SANS SERIF" U.O.N.
3. VERIFY ALL TEXT CONTAINED WITHIN PARENTHESIS WITH ARCHITECT PRIOR TO FABRICATION

NOTE: SEE TYPICAL DOOR SIGNAGE MOUNTING FOR MORE INFORMATION.

12 TYPICAL SIGNAGE
SCALE: 3" = 1'-0"



3 DOOR TYPES
Scale: 1/4" = 1'-0"



4 FRAME TYPES
SCALE: 1/4" = 1'-0"

PROJECT
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District
GRASS VALLEY SCHOOL DISTRICT

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STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
OPENING SCHEDULE & TYPES

DATE 05/09/2019
JOB # 2018045
SHEET # A10.01

10/13/2019 3:54:18 PM
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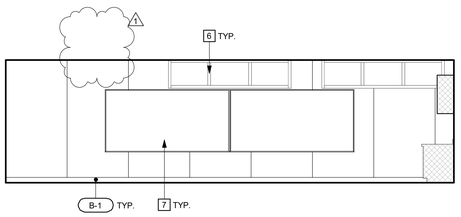

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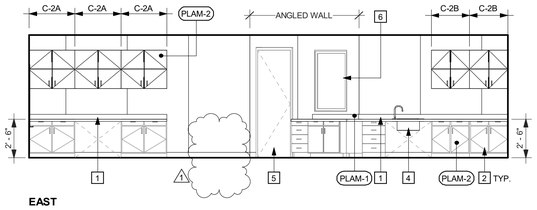

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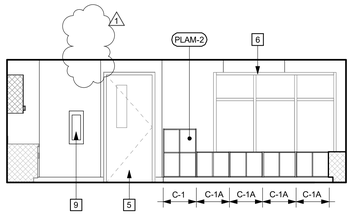

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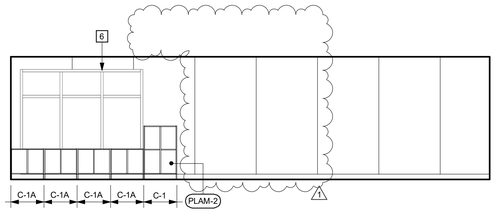
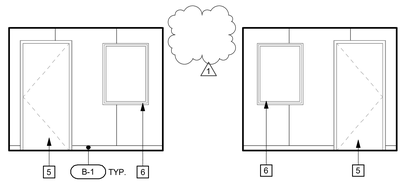


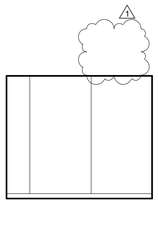
WEST

1 A4 - CLASSROOM
SCALE: 1/4" = 1'-0"



NORTHEAST

NORTHWEST



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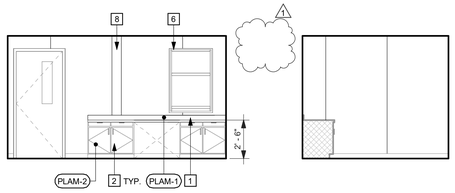
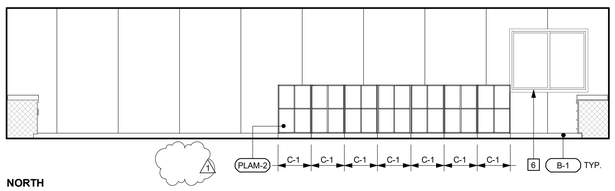


SOUTH

WEST

2 A5 - RESOURCE
SCALE: 1/4" = 1'-0"



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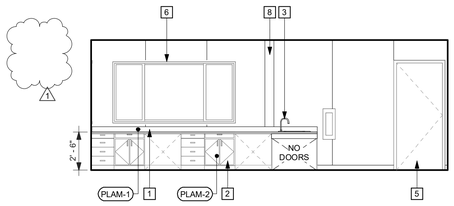

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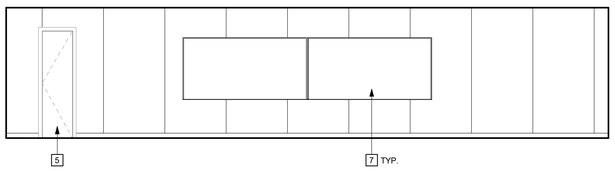

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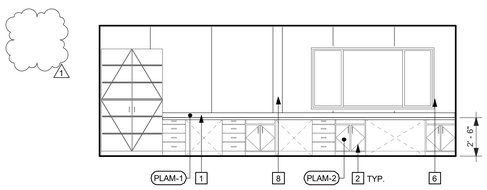


WEST

3 C1 - CLASSROOM
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS REFER TO INTERIOR FINISH SCHEDULE.

B CABINET ELEVATIONS AS SHOWN IN THE INTERIOR ELEVATIONS ARE FOR REFERENCE ONLY. ACTUAL CABINET DESIGN CRITERIA AND SIZES ARE DESIGNATED IN THE CASEWORK SCHEDULE USING THE WOODWORK INSTITUTES' "CABINET DESIGN SERIES (CDS)" NUMBERING SYSTEM, WHERE INDIVIDUAL CASEWORK DESIGN REQUIREMENTS DO NOT FIT WITHIN THE CDS NUMBERING SYSTEM CABINETS ARE DETAILED SEPARATELY AS REFERENCED IN THE CASEWORK SCHEDULE.

C SEE DETAIL 13/A11.01 FOR MOUNTING HEIGHT OF ACCESSORIES.

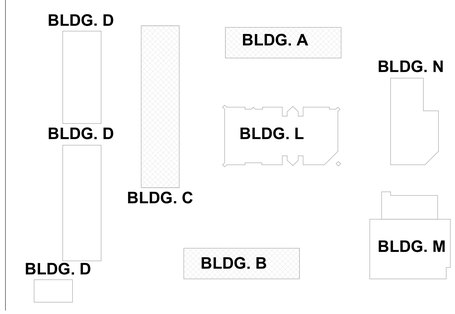
D ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

E REMOVE AND REINSTALL ANY AND ALL EQUIPMENT, PROJECTION SCREENS, ACCESSORIES, ELECTRICAL, AND MECHANICAL ITEMS AS REQUIRED FOR INSTALLATION OF NEW WORK.

INTERIOR ELEVATION KEYNOTES

1 (N) COUNTERTOP
2 (N) LAMINATE ON (E) CABINET BODY. PROVIDE AND INSTALL NEW DOORS AND DRAWER FRONTS, TYP.
3 (N) ACCESSIBLE SINK AND BASE CABINET. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION.
4 (N) SINK, TYP. CONNECT TO (E) PLUMBING. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION.
5 (E) DOOR AND FRAME. PAINT
6 (E) WINDOW FRAME. PAINT
7 (N) MARKER BOARD
8 (E) PORTABLE MODULE LINE COVER. CLEAN, PREP, AND PAINT.
9 (E) FIRE EXTINGUISHER INSTALLED IN (N) SEMI-RECESSED CABINET

BUILDING KEY



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PROJECT

MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN D. STEVENSON RENEWAL 07/31/19 NO. C-25840 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

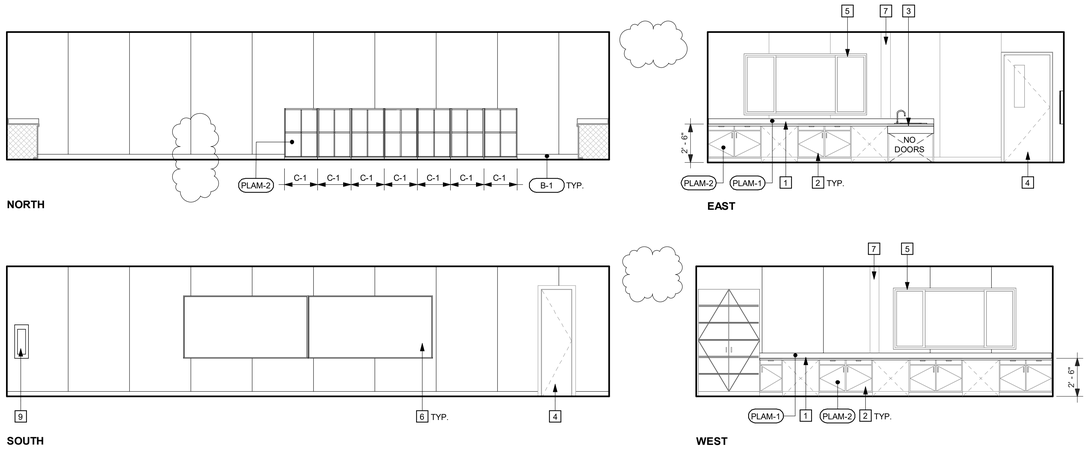
SHEET

INTERIOR ELEVATIONS - BUILDINGS A, B & C

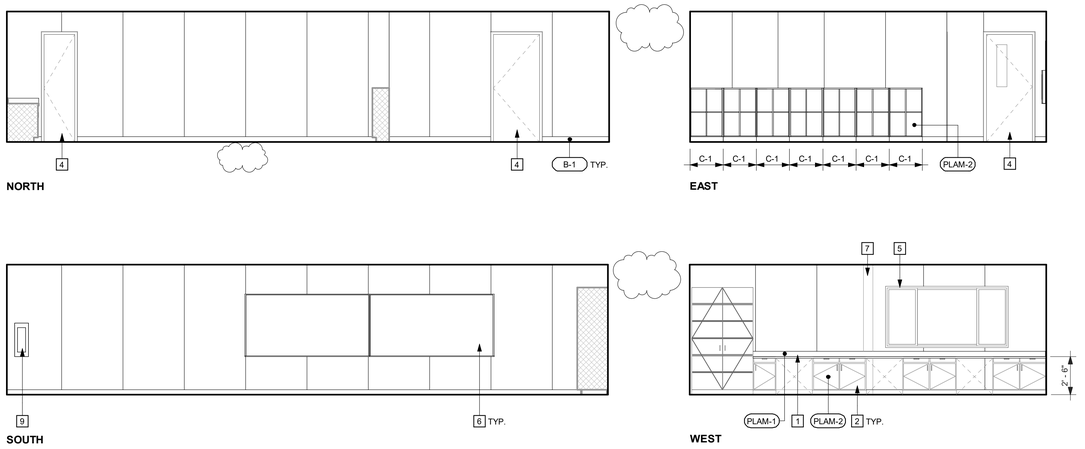
DATE 05/09/2019

JOB # 2018045

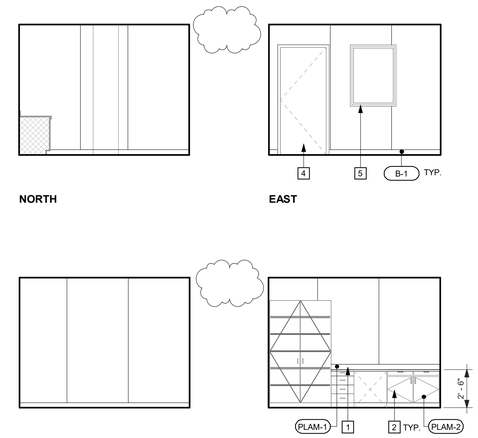
SHEET # A12.21



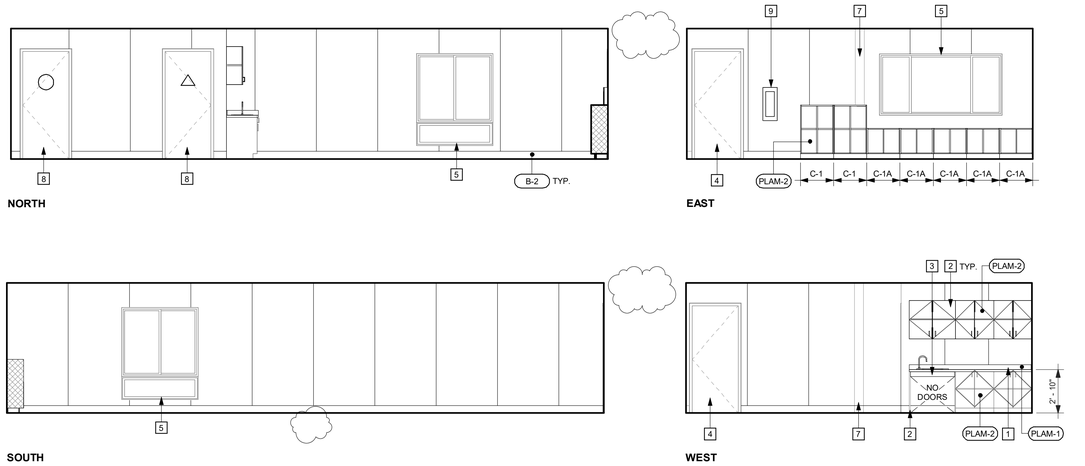
1 D1 - CLASSROOM
SCALE: 1/4" = 1'-0"



2 D2 - CLASSROOM
SCALE: 1/4" = 1'-0"



3 D13 - SDC
SCALE: 1/4" = 1'-0"



4 D14 - SASP
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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C SEE DETAIL 13/A11.01 FOR MOUNTING HEIGHT OF ACCESSORIES.

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1 (N) COUNTERTOP
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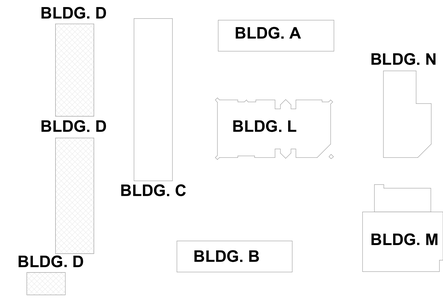
3 (N) ACCESSIBLE SINK AND BASE CABINET. SEE DETAIL 1/A11.10 & PLUMBING DRAWINGS FOR MORE INFORMATION.
4 (E) DOOR AND FRAME. PAINT
5 (E) WINDOW FRAME. PAINT
6 (N) MARKER BOARD
7 (E) PORTABLE MODULE LINE COVER. CLEAN, PREP, AND PAINT.
8 (E) DOOR AND FRAME, PROVIDE AND INSTALL (N) SIGNAGE AND PAINT
9 (E) FIRE EXTINGUISHER INSTALLED IN (N) SEMI-RECESSED CABINET

BUILDING KEY



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PROJECT
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STATE

REVISIONS

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MILESTONES

SD	
DD	
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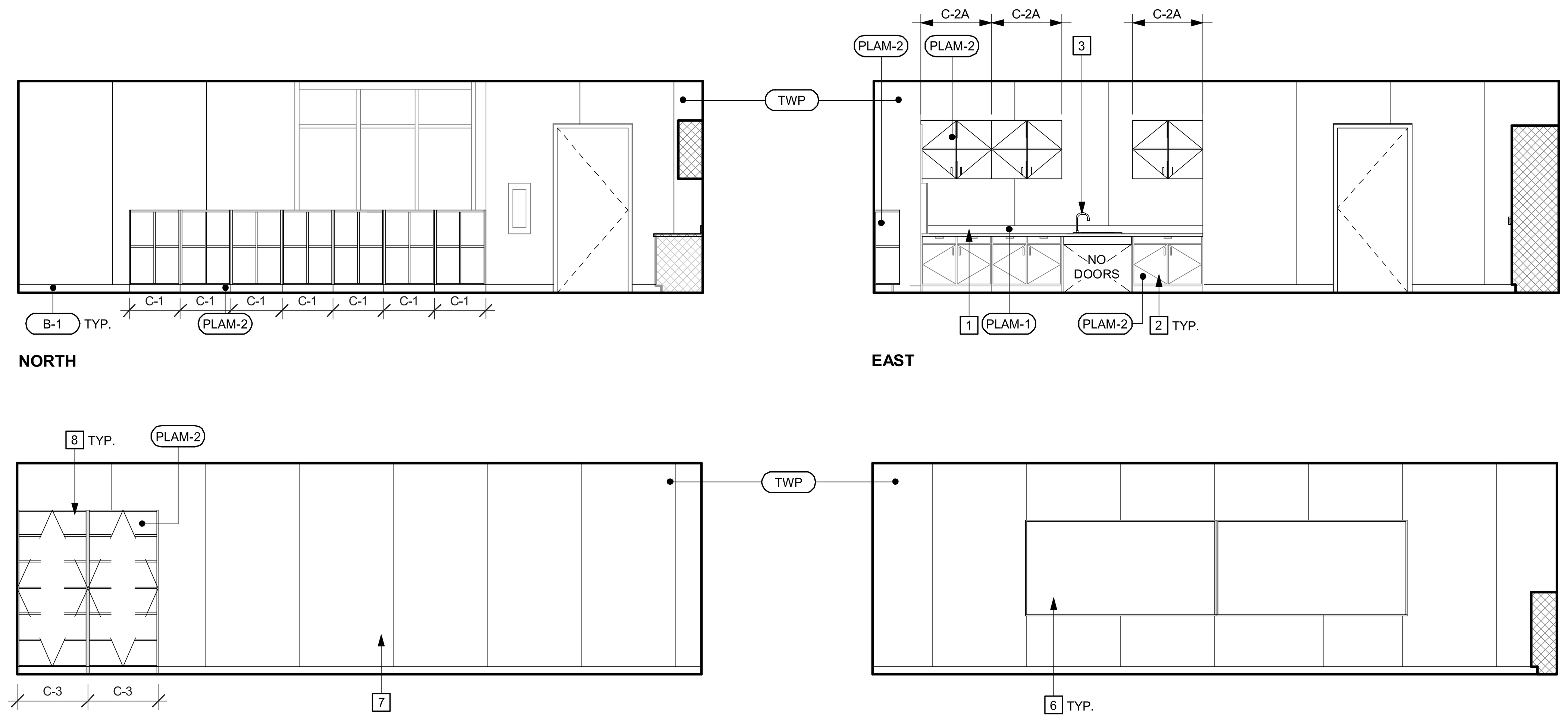
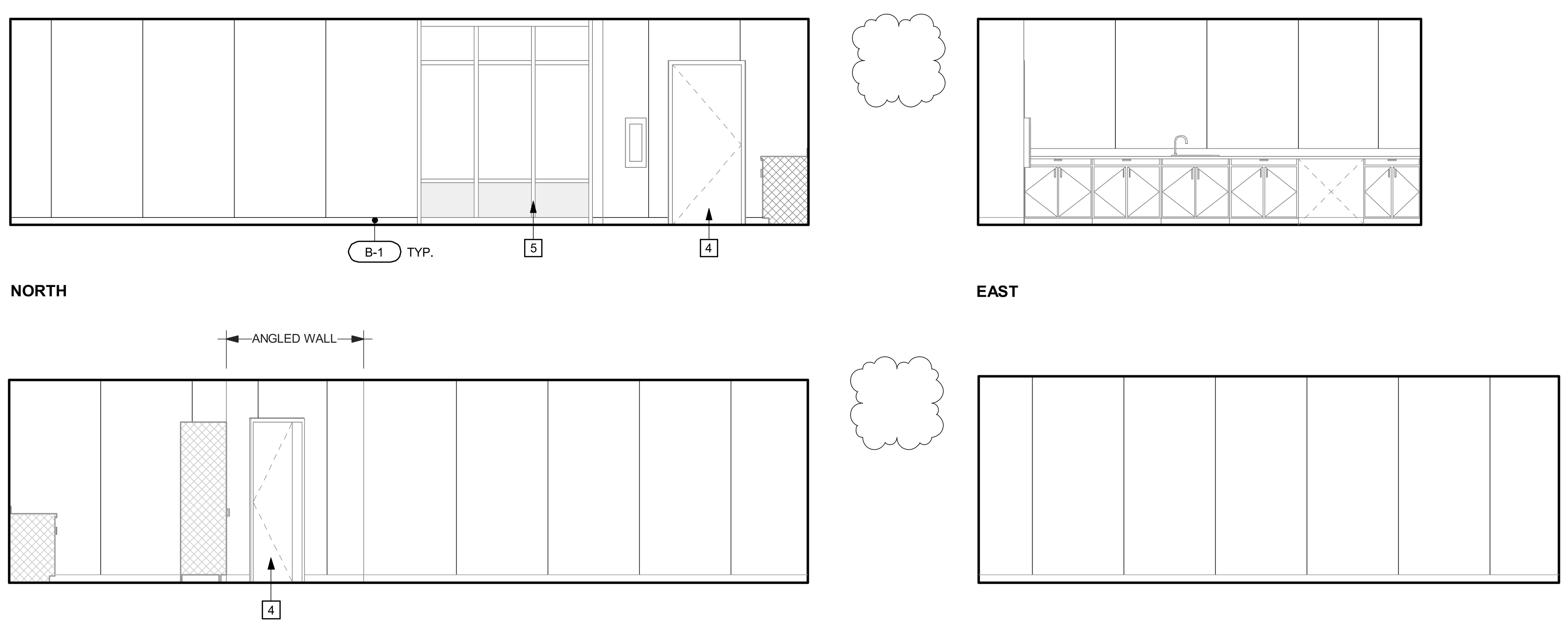
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
INTERIOR ELEVATIONS - BUILDING D

DATE 05/09/2019
JOB # 2018045
SHEET # A12.31



1 **L3 - CLASSROOM**
SCALE: 1/4" = 1'-0"



2 **L14 - COMPUTER LAB**
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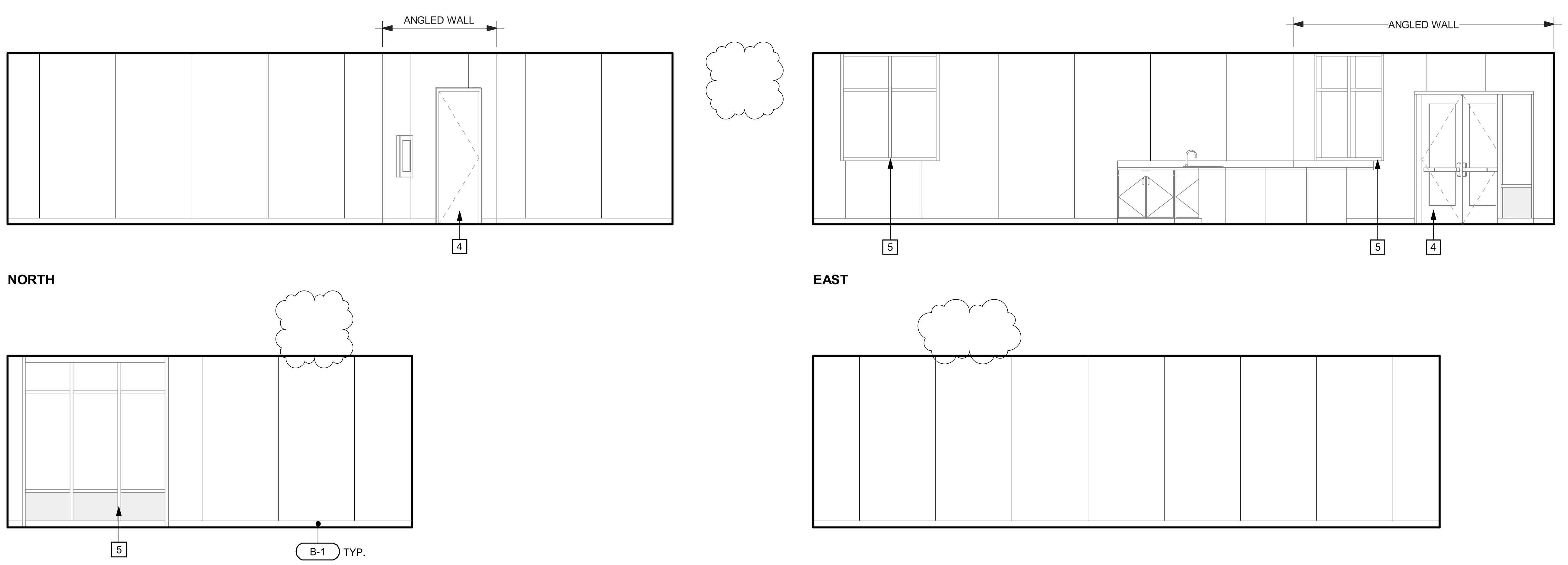

3 **L15 - LIBRARY**
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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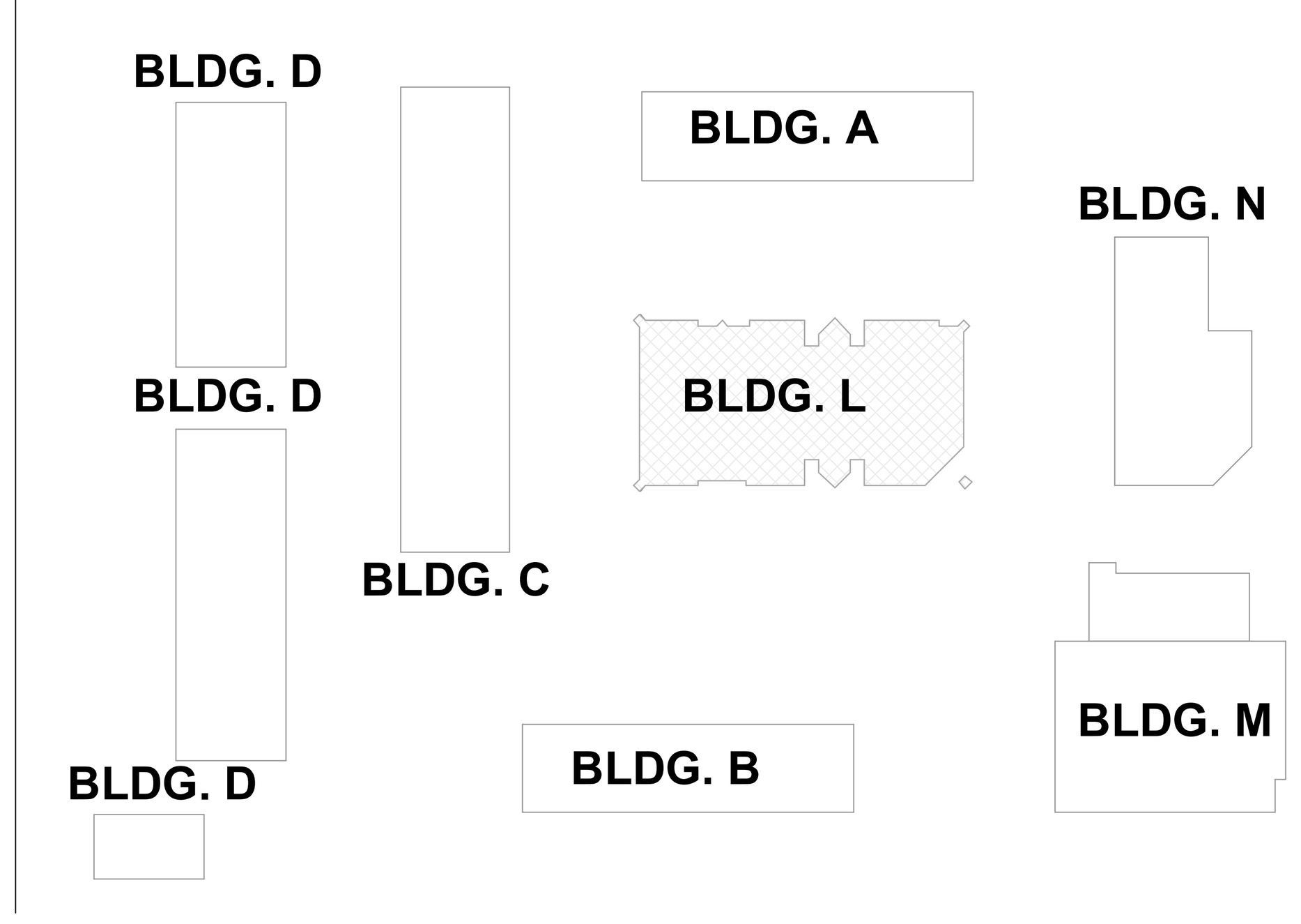
4 (E) DOOR AND FRAME. PAINT
5 (E) WINDOW FRAME. PAINT
6 (N) MARKER BOARD
7 NOT USED
8 (2) (N) TALL CABINETS.

BUILDING KEY



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SHEET
INTERIOR ELEVATIONS - BUILDING L

DATE 05/09/2019
JOB # 2018045
SHEET # A12.32

10/13/2019 3:54:45 PM
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PLUMBING FIXTURE SCHEDULE

SYMBOL	MAKE	NUMBER	DESCRIPTION/TRIM	SUPPORT	MATERIAL
WC-1	KOHLER	K-96053-SS WELLCOME	FLUSH VALVE WATER CLOSET WITH ELONGATED BOWL, TOP SPUD, 15-1/4" RIM HEIGHT.	FLOOR	VIT. CHINA
	SLOAN VALVE (MANUAL)	ROYAL 111-1.28	MANUAL LOW CONSUMPTION FLUSH VALVE (1.28 GPF), BENEKE 523SS OPEN FRONT WHITE SEAT. PROVIDE SUPPLIES AND STOPS.		
WC-2 ACCESSIBLE	KOHLER	K-4405 HIGHLINE	FLUSH VALVE WATER CLOSET WITH ELONGATED BOWL, TOP SPUD, 17-1/8" RIM HEIGHT.	FLOOR	VIT. CHINA
	SLOAN VALVE (MANUAL)	ROYAL 111-1.28	MANUAL LOW CONSUMPTION FLUSH VALVE (1.28 GPF), BENEKE 523SS OPEN FRONT WHITE SEAT. PROVIDE SUPPLIES AND STOPS. FLUSH VALVE LEVER ON WIDE SIDE OF STALL.		
WC-3			NOT USED		
UR-1 ACCESSIBLE	KOHLER	K-4991-ET BARDON	WASHOUT URINAL, 3/4" TOP SPUD, 2" THREADED OUTLET.	WALL	VIT. CHINA
	SLOAN VALVE (MANUAL)	ROYAL 186-0.125	SLOAN LOW CONSUMPTION (0.125 GPF) MANUAL FLUSH VALVE, SUPPLY AND STOP. PROVIDE COMMERCIAL CARRIER AND WALL CLEANOUT. MOUNTING HEIGHT PER ARCHITECTURAL PLANS.		
L-1 ACCESSIBLE	KOHLER	K-2005 KINGSTON	LAVATORY, 21-1/4" X 18-1/2" X 4-3/8", 4" CENTERS, PROVIDE 327-XCP FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS.	WALL	VIT. CHINA
	CHICAGO FAUCET (MANUAL)	857-E2505-665PSHAB	**COLD WATER SUPPLY**, 4" CENTERS, MANUAL METERED FAUCET, 0.5 GPM, SELF CLOSING, SET TIMER TO 20 SECONDS.		
L-2 ACCESSIBLE	KOHLER	K-2005 KINGSTON	LAVATORY, 21-1/4" X 18-1/2" X 4-3/8", 4" CENTERS, PROVIDE 327-XCP FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS.	WALL	VIT. CHINA
	CHICAGO FAUCET (MANUAL)	420-T45E 2805ABCP	**HOT AND COLD SUPPLY**, 4" CENTERS, SINGLE LEVER FAUCET, 0.5 GPM.		
TMV	LEONARD	170-LF-BP-BWE-REC	THERMOSTATIC MIXING VALVE, LOCKING CABINET, COLD WATER BYPASS, INTEGRAL CHECK VALVES, LEAD FREE, 0.25 GPM MIN. FLOW, SET AT A MAX. TEMP. OF 120° F. (ASSE 1070)	RECESSED	BAKED WHITE ENAMEL
L-3 ACCESSIBLE	KOHLER	K-2005 KINGSTON	LAVATORY, 21-1/4" X 18-1/2" X 4-3/8", 4" CENTERS, PROVIDE 327-XCP FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS.	WALL	VIT. CHINA
	CHICAGO FAUCET (MANUAL)	857-E2505-665PSHAB	**SINGLE TEMP SUPPLY**, 4" CENTERS, MANUAL METERED FAUCET, 0.5 GPM, SELF CLOSING, SET TIMER TO 20 SECONDS.		
TMV	LEONARD	170-LF-BP-BWE-REC	THERMOSTATIC MIXING VALVE, LOCKING CABINET, COLD WATER BYPASS, INTEGRAL CHECK VALVES, LEAD FREE, 0.25 GPM MIN. FLOW, SET AT A MAX. TEMP. OF 110° F. (ASSE 1070)	RECESSED	BAKED WHITE ENAMEL
S-1 ACCESSIBLE	ELKAY	DRKADQ3119-65-2	SINK, 31" X 19" TYPE 304, REAR DRAIN LOCATION, PROVIDE WITH LKAD18 OFFSET FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS. PROVIDE STOP-IN HOLE COVER FOR RIGHT FRONT FLOOR SLOTTED HOLE, PLUGGED FOR FUTURE USE.	COUNTER	STAINLESS STEEL
	CHICAGO FAUCET (MANUAL)	350-E35ABCP	**COLD WATER SUPPLY**, SINGLE HOLE, GOOSENECK RIGID SPOUT FAUCET, 5-1/4" CENTER TO CENTER, 1.5 GPM., LEVER HANDLE TO BE MOUNTED ON THE COUNTER SIDE OF THE GOOSENECK SPOUT.		
S-2 ACCESSIBLE	ELKAY	DRKADQ3119-65-2	SINK, 31" X 19" TYPE 304, REAR DRAIN LOCATION, PROVIDE WITH LKAD18 OFFSET FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS. PROVIDE STOP-IN HOLE COVER FOR RIGHT FRONT FLOOR SLOTTED HOLE, PLUGGED FOR FUTURE USE.	COUNTER	STAINLESS STEEL
	CHICAGO FAUCET (MANUAL)	50-E35ABCP	**HOT AND COLD SUPPLY**, SINGLE HOLE, GOOSENECK RIGID SPOUT FAUCET, 5-1/4" CENTER TO CENTER, 1.5 GPM, LEVER HANDLES.		
TMV	LEONARD	170-ALF-BP-BRKT	THERMOSTATIC MIXING VALVE, INTEGRAL CHECK VALVES, MOUNTING BRACKET, LEAD FREE, 0.25 GPM MIN. FLOW, LOCKING TEMPERATURE REGULATOR, 3/8" INLETS, 3/8" OUTLET, SET AT A MAX. TEMP. OF 110° F	UNDER COUNTER	
DF-1 ACCESSIBLE	ELKAY (RECESSED)	EHWM217C	DUAL HEIGHT DRINKING FOUNTAIN, 14 GA. TYPE 304 STAINLESS STEEL, VANDAL RESISTANT BUBBLER AND P-TRAPS. PROVIDE WITH ELKAY ML100 IN WALL SUPPORT LEGS, ELKAY MPW200 IN-WALL MOUNTING PLATE, SUPPLIES AND STOPS.	WALL **INDOOR/ OUTDOOR**	STAINLESS STEEL
RD	ZURN	Z125-C-R	PRIMARY ROOF DRAIN WITH UNDERDECK CLAMP, SUMP RECEIVER, AND CAST IRON DOME.	ROOF	CAST IRON

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 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.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. 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 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), 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 PIING (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 #) #_____.

MP ☐ MD ☐ PP ☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ____ AND CONNECTION LEVEL ____ FOR THE PROJECT AND CONDITIONS.

PLUMBING LEGEND

—— ——	WASTE (W)	FA	FROM ABOVE
--------	VENT (V)	FB	FROM BELOW
——-——-	COLD WATER (CW)	FCO	FLOOR CLEANOUT
——- - ——-	HOT WATER (HW)	GCO	GRADE CLEANOUT
——CD——	CONDENSATE DRAIN (CD)	GWH	GAS WATER HEATER
——G——	GAS (G)	HW	HOT WATER
——MG——	GAS - MEDIUM PRESSURE	HWR	HOT WATER RISER
——HP——	GAS - HIGH PRESSURE	IE	INVERT ELEVATION
	POINT OF CONNECTION (POC)	(N)	NEW
		PSI	POUNDS PER SQUARE INCH
ABC	ABOVE CEILING	SOC	SHUT OFF COCK
ADA	AMERICAN DISABILITIES ACT	SOV	SHUT OFF VALVE
AFF	ABOVE FINISH FLOOR	TYP	TYPICAL
CD	CONDENSATE DRAIN	V	VENT
CW	COLD WATER	VR	VENT RISER
CWR	COLD WATER RISER	VTR	VENT THRU ROOF
(E)	EXISTING	WCO	WALL CLEANOUT
EWH	ELECTRIC WATER HEATER	WHA	WATER HAMMER ARRESTOR

PLUMBING GENERAL NOTES

1. PLANS ARE NOT FOR CONSTRUCTION UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR INSTALL ANY EQUIPMENT, PIPING, ETC. UNTIL PLANS ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. ALL FIXTURES WHITE UNLESS OTHERWISE NOTED.
3. PROVIDE FLOW CONTROL DEVICES ON LAVS AND SINKS PER T-24, PART 5, CCR.
4. ALL FIXTURES SHALL BE PROVIDED WITH STOP VALVES. VALVES MAY BE IN SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS.
5. CONTRACTOR SHALL COORDINATE ALL PLUMBING LINE LOCATIONS WITH OTHER TRADES.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES AND MOUNTING HEIGHTS.
7. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL COSTS INVOLVED.
8. INSULATE HOT & COLD WATER SUPPLY PIPES, STOPS, P-TRAP AND DRAIN LINE AT EACH ADA LAVATORY AND SINK WITH ANTI-MICROBIAL, SEAMLESS, VANDAL RESISTANT PROTECTIVE PIPE COVER "PROWRAP" OR EQUAL.
9. ALL PIPE PENETRATIONS THROUGH ROOF SHALL BE FLASHED SIMILAR TO VTR'S.
10. ALL SANITARY SEWER VENT PIPE PENETRATIONS THROUGH ROOF SHALL TERMINATE AT A MINIMUM DISTANCE OF 10' FROM ANY FRESH AIR INTAKE.
11. MINIMUM LOCAL CONNECTION SIZES SHALL BE MADE IN ACCORDANCE WITH THE SCHEDULE OF CONNECTIONS.
12. ALL WATER PIPING SIZED IN ACCORDANCE WITH 2016 C.P.C.,
13. ALL WASTE, WATER, FIRE AND STORM DRAIN PIPING SHALL BE STUBBED OUTSIDE BUILDING TO CONNECTION POINT SHOWN. SEE CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE PIPING.
14. COORDINATE ALL TRENCHING WITH CONTRACTOR.
15. ALL HOSE BIBBS SHALL BE 3/4" AND MOUNTED AT 12" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL HOSE BIBBS SHALL HAVE A NON-REMOVABLE VACUUM BREAKER.
16. CONTRACTOR SHALL VERIFY LOCATION AND ADEQUACY OF SIZE AND DEPTH OF EXISTING PLUMBING UTILITIES PRIOR TO COMMENCEMENT OF ANY WORK OR ORDERING ANY MATERIALS.
17. PROVIDE MATERIALS IN ACCORDANCE WITH 2016 CALIFORNIA PLUMBING CODE AND STATE CODE REGULATIONS.
18. CONTRACTOR SHALL SAWCUT AND PATCH EXISTING SLAB AS REQUIRED FOR INSTALLATION OF THE PIPING SYSTEM.
19. SEISMIC SUPPORTS AND BRACING FOR ALL PIPING SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 1613A, ASCE7 SECTION 13.6.1 AND NFPA 13 STANDARDS FOR SUPPORT AND ANCHORAGE. METHODS AND MATERIALS PUBLISHED BY SMACNA AND APPROVED BY STATE AGENCIES SHALL BE USED.
20. THE CONDENSATE DRAIN RECEPTACLE (CDR) AND ASSOCIATED WASTE AND VENT PIPING IS NOT REQUIRED AT SITES WHERE THE ROOF DRAINS CONNECT TO A STORM DRAIN SYSTEM. CD LINES FROM ROOFTOP MECHANICAL EQUIPMENT MAY SPILL OVER ROOF DRAINS WITH A TURNED-DOWN ELBOW.
21. THE WATER CLOSET CONTROLS (FLUSH HANDLE) MUST BE LOCATED ON THE CLEAR/ WIDE SIDE OF THE ACCESSIBLE WATER CLOSETS.
22. A SEPARATE FIRE PLAN CHECK SUBMITTAL AND FIRE PERMIT IS REQUIRED FOR WORK BEING CONDUCTED ON THE AUTOMATIC SPRINKLER SYSTEM. PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE LOCAL ADMINISTRATIVE AUTHORITY HAVING JURISDICTION (FIRE INSPECTOR/ PLAN CHECKER) FOR PLAN CHECK APPROVAL. A PERMIT SHALL BE ACQUIRED.
23. HAZARDOUS AND COMBUSTIBLE MATERIAL LINES (E.G. GAS LINES) GREATER THAN 1" IN DIAMETER AND NON-HAZARDOUS LINES (E.G. WATER LINES) GREATER THAN 3" IN DIAMETER REQUIRE SEISMIC BRACING PER 2016 CBC SECTION 1616A.1.26. ACCEPTABLE SEISMIC BRACING DETAILS INCLUDE THOSE SHOWN IN THE EATON/COOPER B-LINE OPM-0052-13 WITH 2016 REVISIONS. CONTRACTOR TO CONFIRM BRACING DETAILS WITH DESIGN TEAM.
24. ANY HORIZONTAL DRAINAGE PIPE SERVING SINKS OR URINALS SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL PER CPC 2016 707.4. A CLEANOUT SHALL BE FURNISHED ABOVE THE FIXTURE CONNECTION FITTING SERVING EACH URINAL, REGARDLESS OF THE LOCATION OF THE URINAL IN THE BUILDING.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	SYMBOL	WASTE				COLD WATER		HOT WATER	
		BRANCH	OUTLET	VENT	TRAP	BRANCH	OUTLET	BRANCH	OUTLET
WATER CLOSET	WC	4"	4"	2"	——	1-1/2"	1"	——	——
LAVATORY	L	2"	1-1/2"	1-1/2"	1-1/2"	1/2"	3/8"	1/2"	3/8"
SINK	S	2"	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	1/2
URINAL	UR	2"	2"	1-1/2"	——	1"	3/4"	——	——
LAVATORY	DF	2"	1-1/4"	1-1/2"	1-1/2"	1/2"	1/2"	——	——

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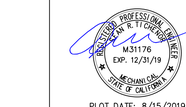


PLOT DATE: 8/15/2019

STATE

REVISIONS

No.	Description	Date
1	ADDENDUM 01	08-15-19

MILESTONES

SD
DD
50% CD
90% CD
DSA SUB

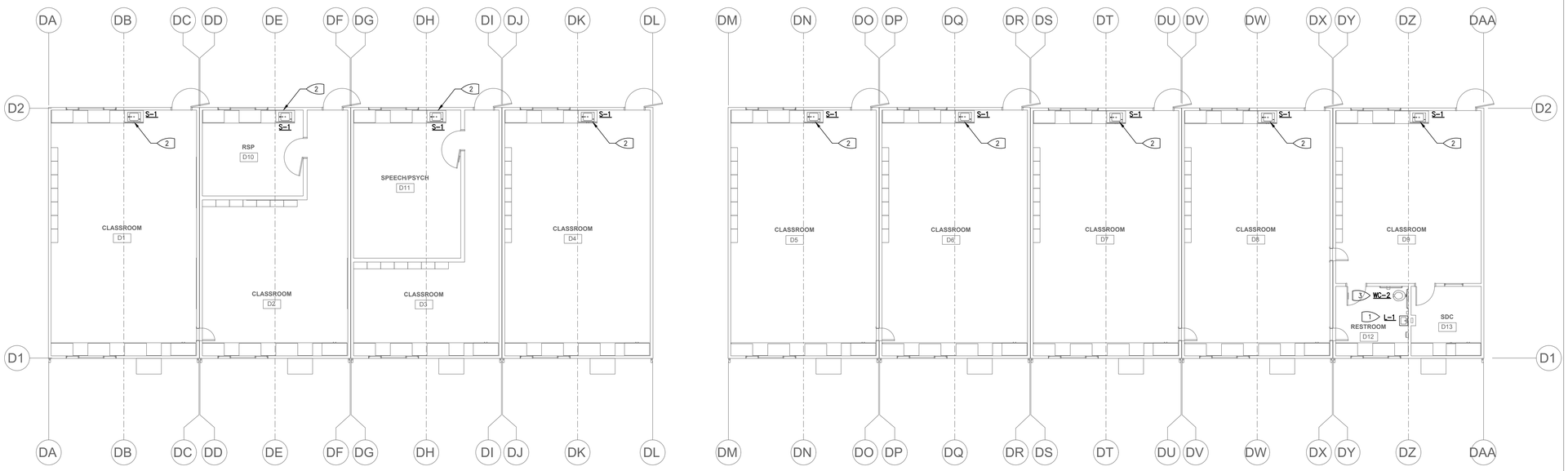
SHEET

SYMBOLS, NOTES & SCHEDULES

DATE 11/15/2018

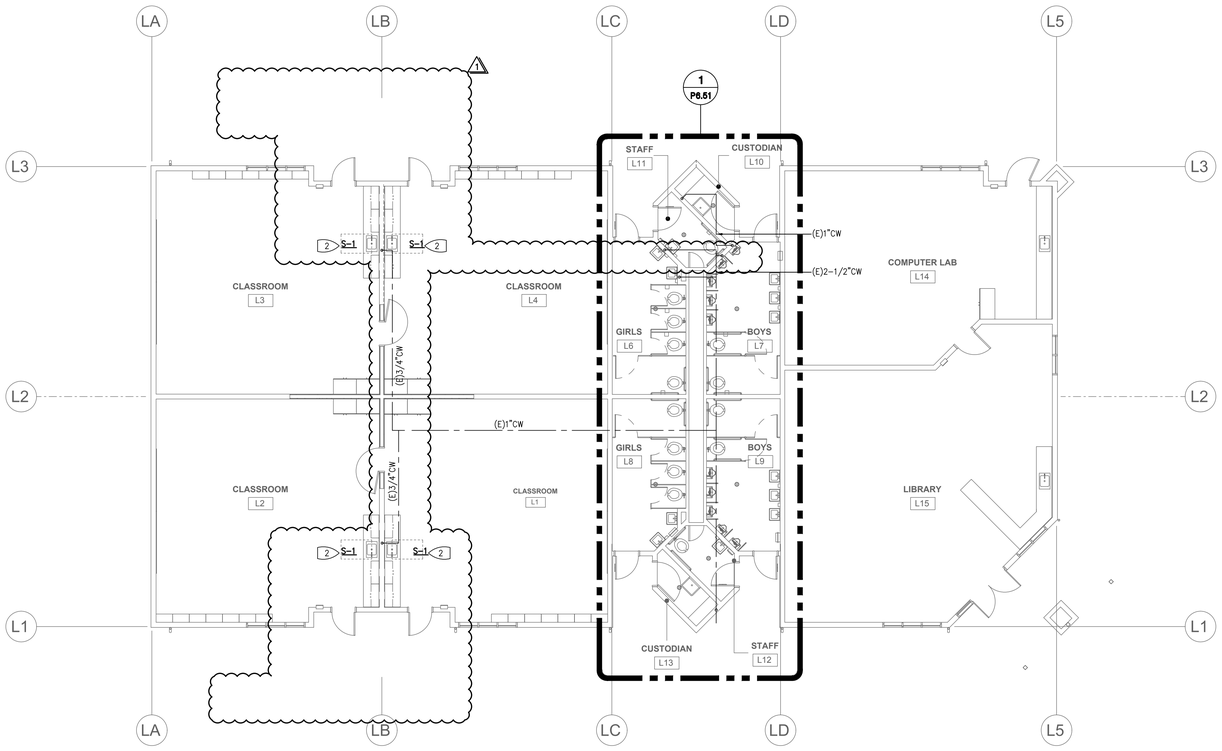
JOB # 2018045

SHEET # P0.01



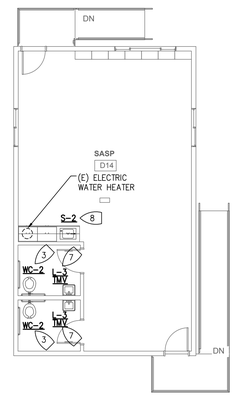
1 BUILDING D - PLUMBING PLAN

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



3 BUILDING L - PLUMBING PLAN

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



2 BUILDING D - PLUMBING PLAN

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

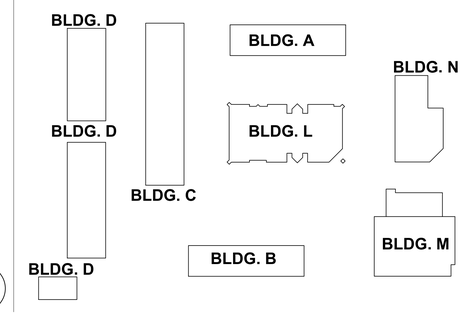
SHEET NOTES:

1. FOR PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE SHEET P0.01.
2. PROVIDE ALL FLEXIBLE CONNECTIONS, SUPPLIES AND STOPS AT FIXTURES.
3. PROVIDE CLEANOUT AT SINKS, LAVATORIES AND URINALS PER 2016 CPC CODE.

KEYED NOTES:

1. PROVIDE NEW PLUMBING FIXTURE L-1 AND CONNECT (N) 1-1/2" WASTE, 1-1/2" VENT AND 1/2" COLD WATER TO (E) PLUMBING UTILITIES. PROVIDE NEW COMMERCIAL WALL CARRIER. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
2. PROVIDE NEW PLUMBING FIXTURE S-1 AND CONNECT (N) 1-1/2" WASTE, 1-1/2" VENT AND 1/2" COLD WATER TO (E) PLUMBING UTILITIES.
3. PROVIDE NEW PLUMBING FIXTURE WC-2 AND CONNECT (N) 4" WASTE, 2" VENT AND 1-1/2" COLD WATER TO (E) PLUMBING UTILITIES. PROVIDE FLUSH VALVE HANDLE ON ACCESSIBLE SIDE.
4. NOT USED
5. NOT USED
6. NOT USED
7. PROVIDE NEW PLUMBING FIXTURE L-2 AND CONNECT (N) 1-1/2" WASTE, 1-1/2" VENT AND 1/2" HOT AND COLD WATER TO (E) PLUMBING UTILITIES. RUN HOT AND COLD WATER THRU MIXING VALVE, TMV AND SET TEMP TO 110° F. PROVIDE NEW COMMERCIAL WALL CARRIER. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
8. PROVIDE NEW PLUMBING FIXTURE S-2 AND CONNECT (N) 1-1/2" WASTE, 1-1/2" VENT AND 1/2" HOT AND COLD WATER TO (E) PLUMBING UTILITIES. RUN HOT AND COLD WATER THRU MIXING VALVE, TMV AND SET TEMP TO 110° F.

BUILDING KEY



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REGISTERED PROFESSIONAL ENGINEER
M31176
EXP. 12/31/19
MECHANICAL
STATE OF CALIFORNIA

PLOT DATE: 8/15/2019

STATE

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No.	Description	Date
1	ADDENDUM 01	08-15-19

MILESTONES

SD
DD
50% CD
90% CD
DSA SUB

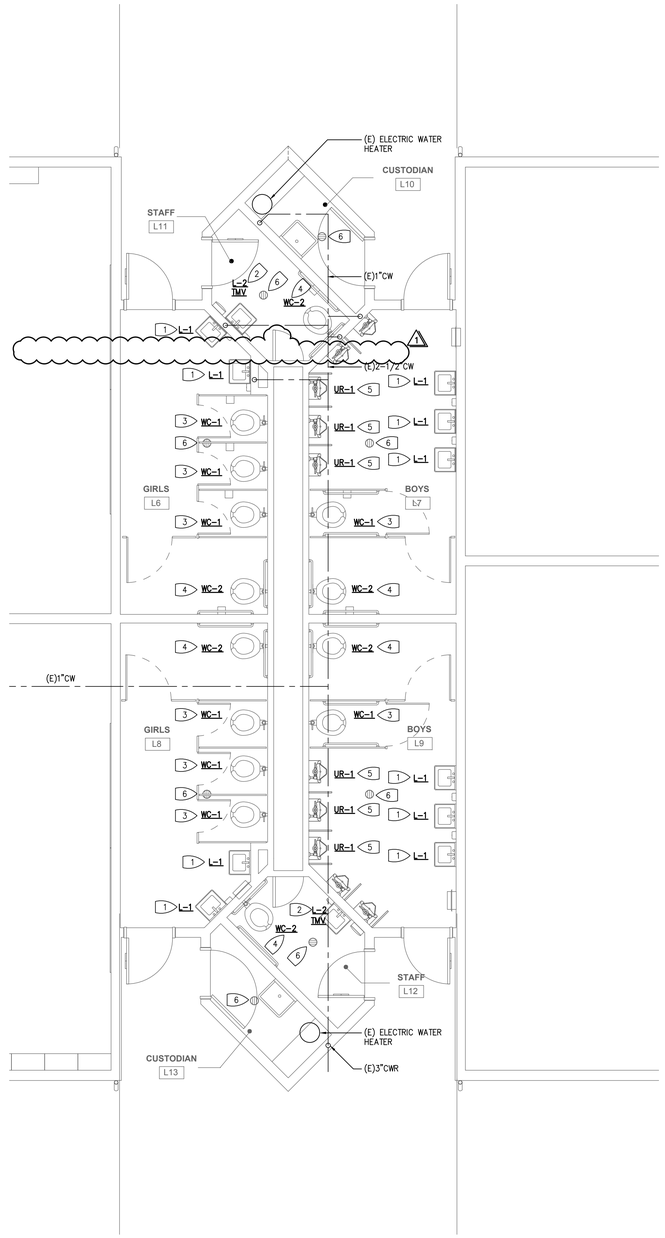
SHEET

BUILDING D & L FLOOR - PLUMBING

DATE 11/15/2018

JOB # 2018045

SHEET # P3.31



1 BUILDING L - PLUMBING PLAN

SCALE: 1/4" = 1'-0"

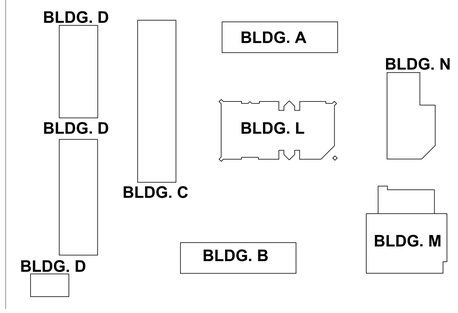
SHEET NOTES:

1. FOR PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE SHEET P0.01

KEYED NOTES:

1. PROVIDE NEW PLUMBING FIXTURE L-1 AND CONNECT (N) 1-1/2" WASTE, 1-1/2" VENT AND 1/2" COLD WATER TO (E) PLUMBING UTILITIES. PROVIDE NEW COMMERCIAL WALL CARRIER. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
2. PROVIDE NEW PLUMBING FIXTURE L-2 AND CONNECT (N) 1-1/2" WASTE, 1-1/2" VENT AND 1/2" HOT AND COLD WATER TO (E) PLUMBING UTILITIES. PROVIDE NEW COMMERCIAL WALL CARRIER. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. SET TMV TO 120° F TEMPERATURE MAX.
3. PROVIDE NEW PLUMBING FIXTURE WC-1 AND CONNECT (N) 4" WASTE, 2" VENT AND 1-1/2" COLD WATER TO (E) PLUMBING UTILITIES.
4. PROVIDE NEW PLUMBING FIXTURE WC-2 AND CONNECT (N) 4" WASTE, 2" VENT AND 1-1/2" COLD WATER TO (E) PLUMBING UTILITIES. PROVIDE FLUSH VALVE HANDLE ON ACCESSIBLE SIDE.
5. PROVIDE NEW PLUMBING FIXTURE UR-1 AND CONNECT (N) 2" WASTE, 1-1/2" VENT AND 1" COLD WATER TO (E) PLUMBING UTILITIES. PROVIDE NEW COMMERCIAL WALL CARRIER. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. EXTEND WASTE AND WATER PIPING AS NECESSARY TO MEET NEW HEIGHT REQUIREMENTS.
6. PROVIDE NEW FLOOR DRAIN NICKEL BRONZE TOP GRATE. 1
7. NOT USED

BUILDING KEY



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MILESTONES

SD
DD
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90% CD
DSA SUB

SHEET

ENLARGED PLUMBING PLANS

DATE 11/15/2018

JOB # 2018045

SHEET # P6.51

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
WP	WEATHERPROOF
-X-	
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

SHEET INDEX

SHEET	DESCRIPTION
E0.01	SYMBOLS, SHEET INDEX, NOTES & ABBREVIATIONS
E0.02	FIRE ALARM SYMBOLS & NOTES
E0.03	SCHEDULES & NOTES
E1.01	DEMOLITION SITE PLAN - ELECTRICAL
E1.02	NEW SITE PLAN - ELECTRICAL
E1.11	SITE DETAILS AND ONE LINE DIAGRAM
E2.21	BUILDINGS A, B, & C DEMOLITION FLOOR PLAN - ELECTRICAL
E2.31	BUILDINGS D & L DEMOLITION FLOOR PLAN - ELECTRICAL
E2.32	BUILDINGS L DEMOLITION FLOOR PLANS - POWER, SIGNAL, AND FIRE ALARM
E2.41	BUILDINGS M AND N DEMOLITION FLOOR PLAN - ELECTRICAL
E3.21	BUILDINGS A, B, AND C FLOOR PLANS - ELECTRICAL
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E4.11	SECTION AND FIRE ALARM CALCULATIONS
E5.01	ELECTRICAL DETAILS
E5.11	LIGHTING DIAGRAMS
E6.01	PANEL SCHEDULES

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED LUMINAIRE.
	SUSPENDED LUMINAIRE.
	RECESSED LUMINAIRE.
	WALL MOUNTED LUMINAIRE.
	SURFACE MOUNTED LUMINAIRE.
	WALL MOUNTED LUMINAIRE.
	RECESSED 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 W/ 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.
	POLE TOP MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE SINGLE HEAD
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY OR BATTERY POWER SOURCE.
B	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.
SUBSCRIPTS T S WP S PC1 PC2	DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: T = THERMAL OVERLOAD PROTECTED WP = WEATHER PROOF PC1 = FIXTURE CONTROLED BY PHOTOCELL PC1 PC2 = FIXTURE CONTROLED BY PHOTOCELL PC2
S	HEAVY DUTY SINGLE POLE TOGGLE SWITCH, MOUNTED +48" AFF TO TOP OF BOX, COLOR TO MATCH EXISTING.
PC1	PHOTOCELL FOR DAYLIGHT CONTROL, AUTOMATIC DIMMING & ON/OFF FOR DAYLIGHT ZONE #1.
PC2	PHOTOCELL FOR DAYLIGHT CONTROL, AUTOMATIC DIMMING & ON/OFF FOR DAYLIGHT ZONE #2.
OS	AUTOMATIC "ON", CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
R1	LIGHTING ROOM CONTROLLER ABOVE CEILING, 1 RELAY ROOM CONTROLLER W/ 0-10V DIMMING.
R2	LIGHTING ROOM CONTROLLER ABOVE CEILING, 2 RELAY ROOM CONTROLLER W/ 0-10V DIMMING.
R3	LIGHTING ROOM CONTROLLER ABOVE CEILING, 3 RELAY ROOM CONTROLLER W/ 0-10V DIMMING.
PL	PLUG LOAD ROOM CONTROLLER ABOVE CEILING.
NB	NETWORK BRIDGE ABOVE CEILING.
D	DIMMING CONTROL, WALL MOUNTED +48" AFF TO TOP OF BOX. STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATED BUSHING.
M D	MASTER DIMMING CONTROL, WALL MOUNTED +48" AFF TO TOP OF BOX. STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATED BUSHING.
OS	AUTOMATIC "ON/OFF" DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MOUNTED +48"AFF TO TOP OF BOX. STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATED BUSHING.

POWER DISTRIBUTION SYMBOLS

SYMBOL	DESCRIPTION
X	NON FUSED DISCONNECT SWITCH. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH.
X	FUSED DISCONNECT SWITCH WITH CLASS 'R' DUAL ELEMENT FUSES, SIZE TO SUIT EQUIPMENT NAME PLATE RATING. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH.
$	1-POLE 1-PHASE MOTOR RATED DISCONNECT SWITCH WITH THERMAL OVERLOAD.
$	2-POLE 1-PHASE MOTOR RATED DISCONNECT SWITCH WITH THERMAL OVERLOAD.
$	3-POLE 3-PHASE MOTOR RATED DISCONNECT SWITCH WITH THERMAL OVERLOAD.
	CONTROL/EQUIPMENT PROVIDED UNDER ANOTHER DIVISION. PROVIDE POWER CONNECTION(S) AS NOTED ON PLAN.
MS	MOTOR STARTER W/ BUILT-IN OVERLOAD PROTECTION PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS NOTED ON PLANS.
	MOTOR PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS NOTED ON PLANS.
VFD	VARIABLE FREQUENCY DRIVE PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS NOTED ON PLANS.
VFD	VARIABLE FREQUENCY DRIVE W/ MANUFACTURER DISCONNECT PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS NOTED ON PLANS.
	DISTRIBUTION PANEL/MOTOR CONTROL CENTER.
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.
	TERMINAL CABINET, SURFACE MOUNTED, SIZE AND TYPE AS INDICATED.

RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED. CONDUCTORS SHALL BE REMOVED.
	EXISTING CONDUIT RUN, VERIFY ROUTING IN FIELD.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.
	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.
	PULL NEW WIRES INTO EXISTING RACEWAY, #12 AWG UNLESS OTHERWISE NOTED.
	FLEX CONDUIT.
	INDICATES RACEWAY TURNING UP.
	INDICATES RACEWAY TURNING DOWN.
	INDICATES RACEWAY STUB, TERMINATE W/ BUSHING OR CAP IF UNDERGROUND.
	SURFACE MOUNTED RACEWAY, WIREMOLD 2400 SERIES, ANSI #61 GRAY, 20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE IN TWO GANG BOX WITH SINGLE GANG PLATE. PLUGMOLD 2400 SERIES.
	SURFACE METALLIC RACEWAY, MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF DEVICE (OR AT HEIGHT DIRECTED BY ARCHITECT). PROVIDE SECTIONS, COVERS, ELBOWS AND ALL NECESSARY HARDWARE FOR A COMPLETE INSTALL. PLUGMOLD 2000 SERIES W/ #WH20GB618 DEVICE

WIRING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, COMMERICAL GRADE, MOUNTED +15" AFF TO BOTTOM OF BOX. LEVITON #16352-I, PASS & SEYMOUR #26352-I, OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, COMMERCIAL GRADE, ISOLATED GROUND WITH SURGE SUPPRESSION, MOUNTED +15" AFF TO BOTTOM OF BOX. LEVITON #5380-IGI, HUBBELL #G5362ISA, OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE, COMMERICAL GRADE, MOUNTED +15" AFF TO BOTTOM OF BOX. (2) LEVITON #16352-I, (2) PASS & SEYMOUR #26352-I, OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE, COMMERCIAL GRADE, ISOLATED GROUND WITH SURGE SUPPRESSION, MOUNTED +15" AFF TO BOTTOM OF BOX. (2) LEVITON #5380-IGI, (2) HBBELL #G5362ISA, OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
	20 AMP 125V 3W HALF-CONTROLLED PLUG LOAD DUPLEX RECEPTACLE, MOUNTED +15" AFF TO BOTTOM OF BOX. RECEPTACLE SHALL BE PERMANENTLY IDENTIFIED FOR HALF-CONTROLLED, COLOR TO MATCH EXISTING.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER, COMMERCIAL GRADE, TAMPER RESISTANT, MOUNTED +15" AFF TO BOTTOM OF BOX. LEVITON #GFTR2-HGI, PASS & SEYMOUR #2097TR OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER, COMMERCIAL GRADE, TAMPER RESISTANT, MOUNTED +15" AFF TO BOTTOM OF BOX. (2) LEVITON #GFTR2-IGI, (2) PASS & SEYMOUR #2097TRI, OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
WP	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER, INDUSTRIAL GRADE, TAMPER AND WEATHER RESISTANT, MOUNTED +15" AFF TO BOTTOM OF BOX. LEVITON #G5362-WTI, PASS & SEYMOR #2097TRI, OR APPROVED EQUAL. COLOR TO MATCH EXISTING.
J	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
SUBSCRIPTS C IG TP USB WP	SUBSCRIPTS DESIGNATE THE FOLLOWINTG: C = ABOVE COUNTER MOUNTED AT 44" TO TOP OF BOX. IG = ISOLATED GROUND TP = TAMPERPROOF USB = PROVIDE RECEPTACLE W/ DUAL USB CHARGING. WP = WEATHERPROOF
	SPECIAL RECEPTACLE, MOUNTED +15" AFF TO BOTTOM OF BOX. COORDINATE TYPE WITH EQUIPMENT TO BE SERVED.

SIGNAL SYSTEMS SYMBOLS

SYMBOL	DESCRIPTION
▼	DATA OUTLET, 4 11/16" SQUARE X 2 7/8" DEEP BOX W/ 1-DEVICE RING AND PLATE, MOUNTED +15" AFF TO BOTTOM OF BOX. STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATED BUSHING.
▽	WALL TELEPHONE OUTLET, MOUNTED +48" AFF.
SUBSCRIPTS C ▼ WAP ▼ P ▼ # ▼	DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: C = ABOVE COUNTER MOUNTED AT 44" MAX AFF TO TOP OF BOX. WAP = WIRELESS ACCESS POINT, COORDINATE HEIGHT WITH DISTRICT PRIOR TO ROUGH-IN. P = LOCATE FOR PROJECTOR BRACKET/MOUNTING. # = QUANTITY OF JACKS IN EACH OUTLET. NO NUMBER INDICATES ONE JACK.
	EZ PATH SERIES 22,33, OR 44, SYSTEM #W-L-3377. SEE DETAILS.
	CLOCK, WALL MOUNTED.
	COMBINATION IP CLOCK/SPEAKER, ATLASIED #IP-SDMF.
	INTERIOR INTERCOM SPEAKER, WALL MOUNTED.
	EXTERIOR INTERCOM SPEAKER, WALL MOUNTED.
	INTERIOR INTERCOM SPEAKER, CEILING MOUNTED.

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
X,XXX A	CALCULATED AVAILABLE SHORT-CIRCUIT CURRENT.
XXXX	FEEDER TAG, SEE FEEDER SCHEDULE.
	EQUIPMENT DESIGNATION.
XX	NUMBERED NOTE.
T	TRANSFORMER.
M	UTILITY METER.
	CIRCUIT BREAKER.
	DISCONNECT SWITCH.

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PROJECT
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT
EDGE ELECTRICAL CONSULTING

STAMP
LICENSED ARCHITECT NO. C-25840 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
SYMBOLS, SHEET INDEX, NOTES & ABBREVIATIONS

REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA
08/26/2019

DATE 11/15/2018
JOB # 2018045
SHEET # E0.01

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING	LAMP		VOLTS	WATTS	REMARKS
				NO.	TYPE			
A20	FINELITE S12 LED ID-DCO-20'-3E-H/B-840-OPEN-SC-FA-CE	20' INDIRECT/DIRECT; 4000K; 24, 825 LUMENS	PENDANT		LED	120	192	NOTES 1 & 2
F1	KENALL MLHA12-24-R-MW-PP-25L40K-DCC-1-DV	SURFACE WRAP; 4000K; 2673 LUMENS	SURFACE		LED	UNIV 120-277V	25	
F4	KENALL MLHA12-48-R-MW-PP-67L40K-DCC-1-DV	SURFACE WRAP; 4000K; 8227 LUMENS	SURFACE		LED	UNIV 120-277V	73	
J1	WILLIAMS 50G-S14-L27/840-FA12125-DIM-UNV	LAY-IN; 4000K; 2700 LUMENS	LAY-IN		LED	UNIV 120-277V	21	
CC	STONCO WP-LED-2L-530-NW-UNV	WALL PACK	SURFACE		LED	UNIV 120-277V	65	NOTE 3
AA1	STONCO AL-100-NW-G1-AR-4-8	POLE LIGHT	ARM		LED	UNIV 120-277V	99	NOTES 3 & 4
AA2	STONCO AL-100-NW-G1-AR-3-8	POLE LIGHT	ARM		LED	UNIV 120-277V	99	NOTES 3 & 4

NOTES :
1. MOUNT WITH BOTTOM OF FIXTURE AT +?" AFF.
2. CONTRACTOR TO VERIFY CEILING TYP.
3. COLOR TO MATCH (E) EXTERIOR FIXTURES WHICH APPEAR TO BE BRONZE. CONTRACTOR TO FIELD VERIFY.
4. PROVIDE SQUARE ALUMINUM POLE, SIZE AND HEIGHT TO MATCH (E) POLES. PER RECORD DRAWINGS, (E) POLES ARE 18'. CONTRACTOR TO FIELD VERIFY.

WIRE SCHEDULE

TYPE	AREA	O.D.	DESCRIPTION
D			REFER TO SPECIFICATIONS (CATEGORY 6 DATA 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)
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)
Z	0.0077	(2) 0.07	2#14 THHN/THWN (CO SOUNDER BASE POWER)

ELECT. DIST. SYSTEM BRACING NOTE

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 15.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM) , 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.

ELECTRICAL DISTRIBUTION SYSTEMS (E):

E [ ] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

E ■ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) # 0052-13

E [ ] OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHEMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVE DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL __________ AND CONNETION LEVEL __________ FOR THE PROJECT AND CONDITIONS.

ELECT. COMPONENT ANCHORAGE NOTE

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

1. ALL PERMANTENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHEMENTS.

THE FOLLOWING ELECTRICAL SHALL BE COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT.

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

GENERAL NOTES

1. EXISTING UNDERGROUND UTILITIES ARE PRESENT, BUT THEIR EXACT LOCATIONS 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.
2. 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 AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
3. EXISTING CIRCUITS AND SERVICES SHALL NOT BE INTERRUPTED EXCEPT BY SPECIFIC APPROVAL OF THE SCHOOL. ALL SHUTDOWNS SHALL BE SCHEDULED WITH THE SCHOOL.
4. ALL INTERIOR CONDUIT SHALL BE RUN CONCEALED. FISH FLEX IN EXISTING WALLS AND USE CUT-IN BOXES, UNLESS NOT POSSIBLE. WHERE CONDUIT MUST RUN EXPOSED, PROVIDE WIREMOLD SURFACE NONMETALLIC RACEWAY, SIZE AS REQUIRED (800 SERIES MINIMUM SIZE). ROUTE AS INCONSPICUOUS AS POSSIBLE. MAKE ANGLES CUTS AS REQUIRED. ATTACH TO WALL WITH SCREWS SPACED 48" MAX. SCREWS MUST PENETRATE STRUCTURAL MEMBERS WITH 1" PENETRATION. COORDINATE ROUTING WITH ARCHITEC
5. 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.
6. PROVIDE TRAFFIC RATED (H/20 LOAD) COVER AND BOXES FOR ALL PULLBOXES UNLESS SPECIFICALLY NOTED OTHERWISE.
7. REFER TO DETAILS ON STRUCTURAL DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH FRAMING TOP PLATES, SILL PLATES, BEAMS, JOIST, RAFTERS, ETC. PROVIDE NOTCHING BORING, DRILLING, ANCHOR BOLTS AND OTHER WORK IN STRICTEST CONFORMANCE TO STRUCTURAL DETAILS.
8. ALL MATERIALS AND EQUIPMENT IS (N) U.O.N.
9. ALL WIRING SHALL BE IN RACEWAY U.O.N.
10. ALL EQUIPMENT, DEVICES, WORK, ETC IS NEW UNLESS NOTED OTHERWISE.
11. ALTHOUGH GROUNDING CONDUCTOR IS COVERED BY "RACEWAY" SYMBOLS' ON E0.01, IT IS SHOWN ON SAME NEW CONDUIT RUNS FOR CLARITY.
12. WHERE NEW DEVICE(S) SUCH AS BUT NOT LIMITED TO, RECEPTACLES, ARE SHOWN TO REPLACE EXISTING DEVICE(S) SHALL HAVE NEW FACEPLATE(S).

1

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PROJECT
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

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LICENSED ARCHITECT JOHN D. DIFFENDERFER NO. C-25840 REN. 07/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

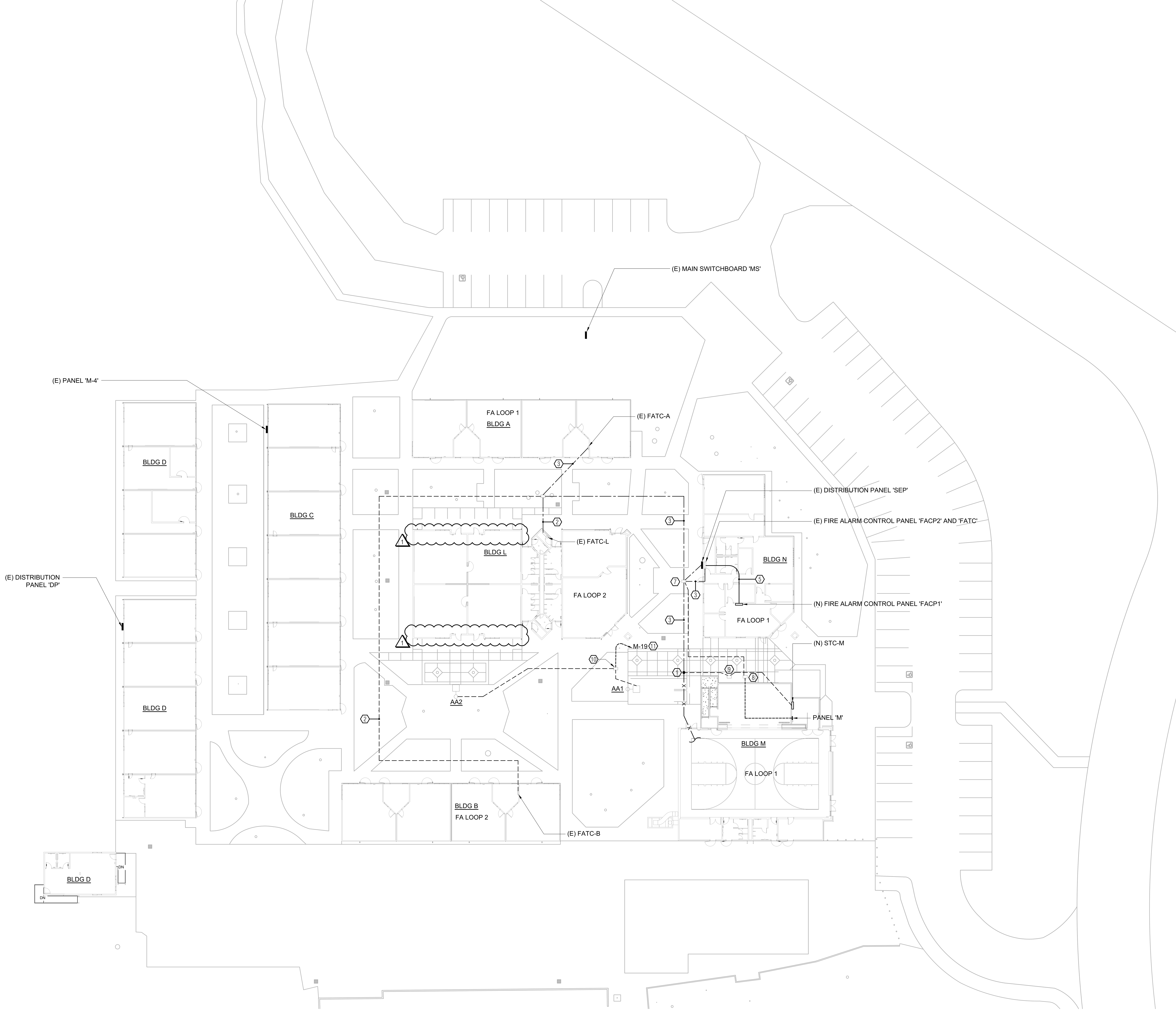
MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
SCHEDULES & NOTES

REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA
08/26/2019

DATE 11/15/2018
JOB # 2018045
SHEET # E0.03



SHEET NOTES

1. REFER TO ONE LINE DIAGRAM FOR FEEDER(S).

NUMBERED NOTES

1. INTERCEPT AND EXTEND (E) CIRCUIT TO (N) DEVICE AS INDICATED.
2. REMOVE AND REPLACE (E) CONDUCTORS AS REQUIRED TO PROVIDE (N) 1IX.
3. REMOVE AND REPLACE (E) CONDUCTORS AS REQUIRED TO PROVIDE (N) 2IX.
4. REMOVE AND REPLACE (E) CONDUCTORS AS REQUIRED TO PROVIDE (N) 3IX.
5. 1"C - 2IX.
6. ENTER (E) PULLBOX. PROVIDE (N) EXTENSION(S) AS REQUIRED.
7. (3) LOW VOLTAGE AND (1) POWER PULLBOXES.
8. CHRISTY N40 PULLBOX WITH (2) EXTENSIONS, STEEL CHECKER PLATE LOCKING LID AND CONCRETE SLAB.
9. (N) SIGNAL PEDESTAL. PROVIDE TERMINAL BLOCKS AND TERMINATE (N) AND (E) CABLES. MAINTAIN CONTINUITY TO REMAINING DEVICES.
10. CHRISTY N16 PULLBOX WITH (2) EXTENSIONS, STEEL CHECKER PLATE LOCKING LID AND CONCRETE SLAB.
11. VIA (E) TIMECLOCK. PROVIDE (N) CONTACTOR AND PARALLEL CONTROL CIRCUIT AS REQUIRED.

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PROJECT

MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

EDGE ELECTRICAL CONSULTING

STAMP

LICENSED ARCHITECT NO. C-25840 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET

NEW SITE PLAN - ELECTRICAL

DATE 11/15/2018

JOB # 2018045

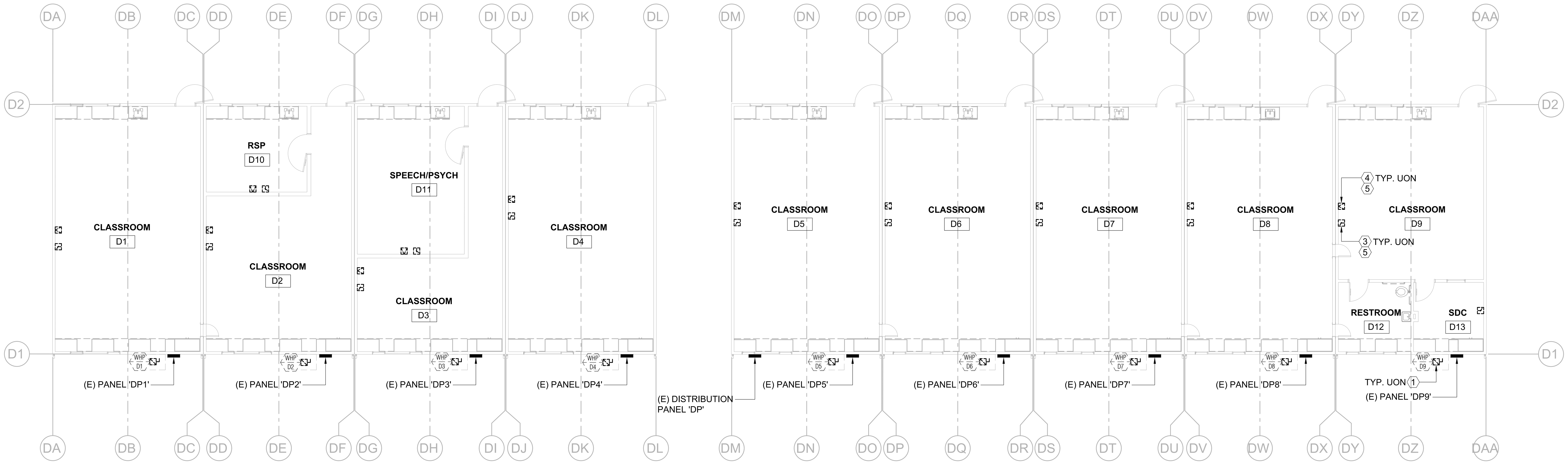
SHEET # E1.02

1 **NEW SITE PLAN - ELECTRICAL**
SCALE: 1" = 20'-0"

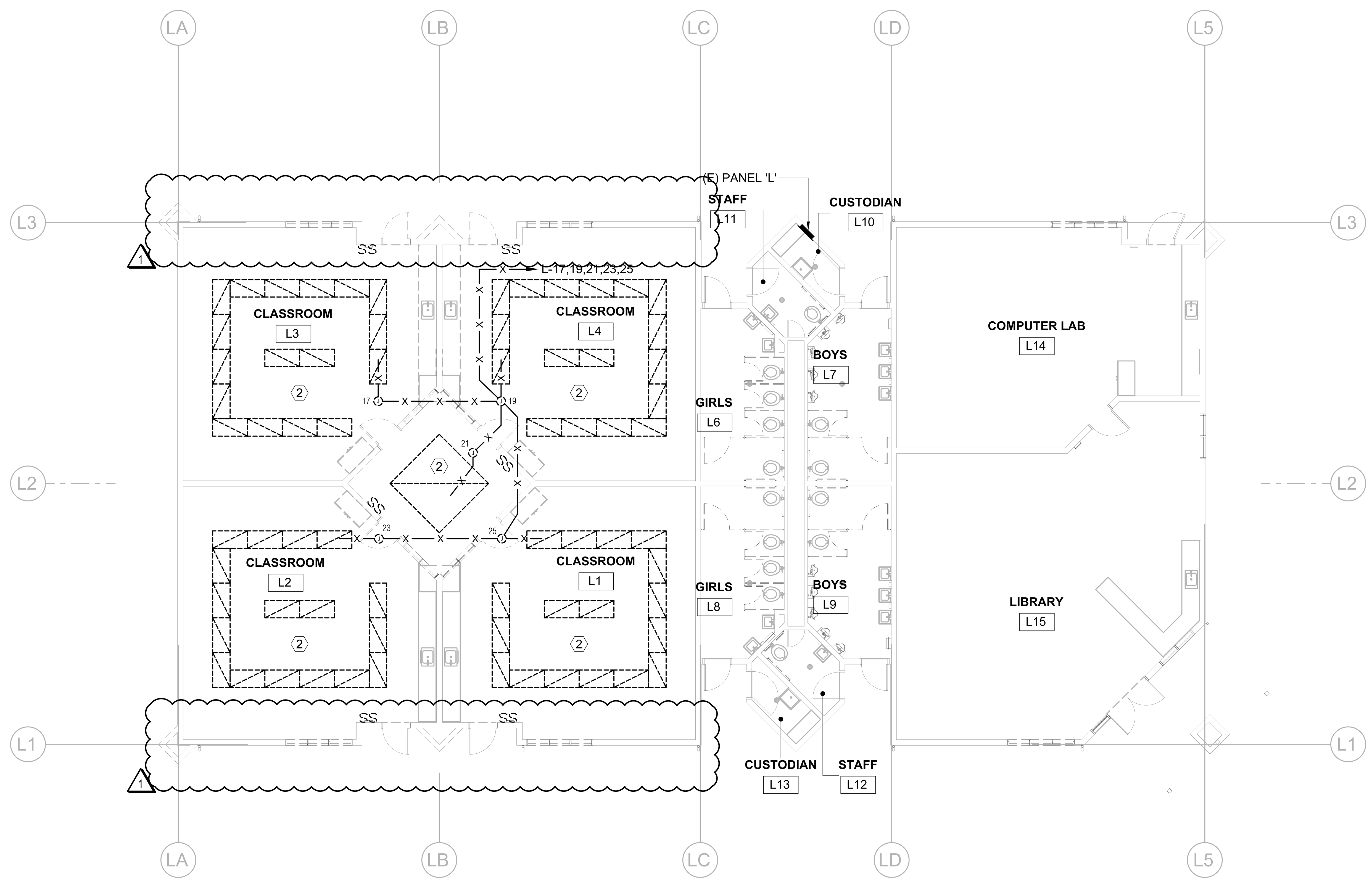
08/26/2019

NUMBERED NOTES

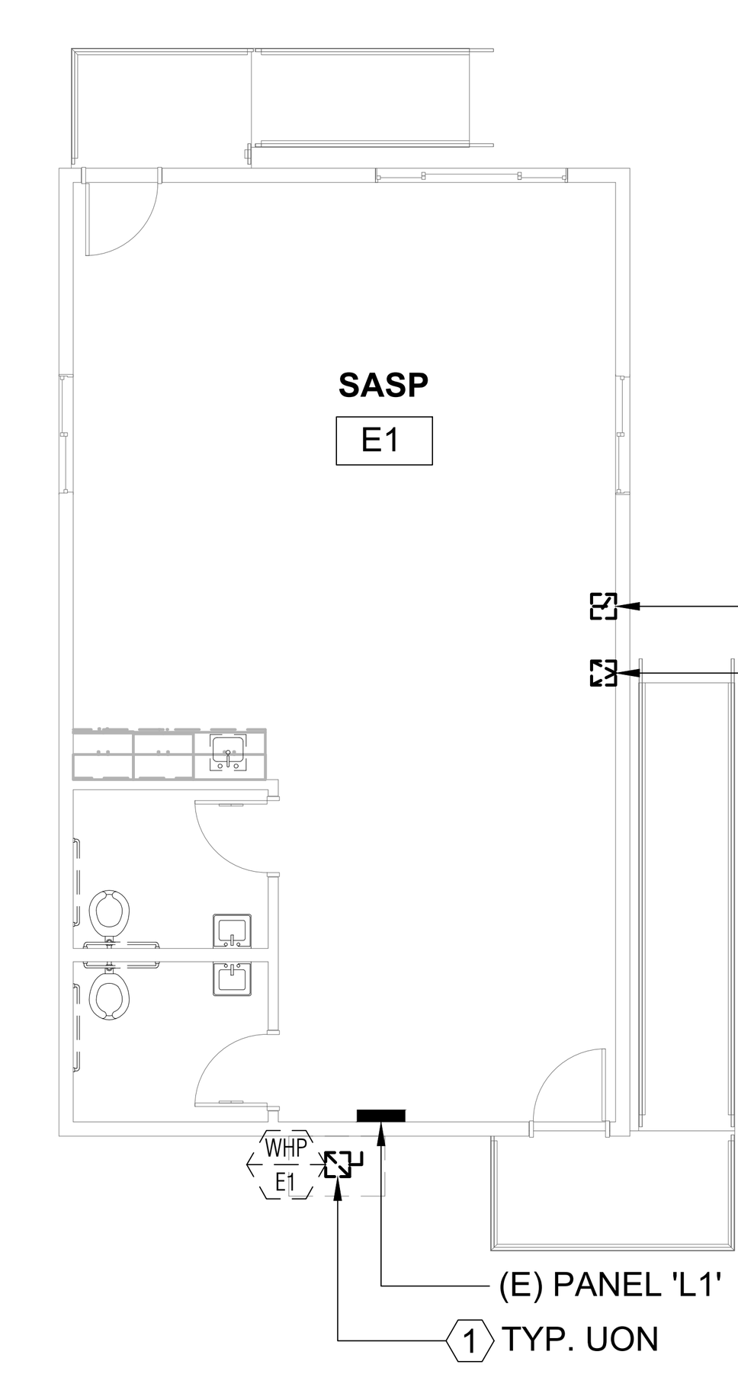
1. DISCONNECT (E) HVAC UNIT.
2. DISCONNECT AND REMOVE (E) LIGHT FIXTURES AND LIGHT SWITCHES. REMOVE RACEWAY AND CONDUCTORS BACK TO SOURCE OR LAST REMAINING DEVICE.
3. DISCONNECT AND REMOVE (E) CLOCK. REMOVE RACEWAY AND WIRING BACK TO SOURCE.
4. DISCONNECT AND REMOVE (E) SPEAKER. REMOVE RACEWAY AND WIRING BACK TO SOURCE.
5. PROVIDE (N) BLANK PLATE. PROVIDE CUSTOM FABRICATED METAL PLATES AS NEEDED TO COVER ENTIRE OPENINGS. CUSTOM PLATES SHALL BE 18-GAUGE MINIMUM AND FINISHED WITH (3) COATS OF PAINTS AS DIRECTED BY ARCHITECT. ATTACH TO WALL WITH MINIMUM OF ONE SCREW IN EACH CORNER.



1 **BUILDING D DEMO FLOOR PLAN - PARTIAL - ELECTRICAL**
SCALE: 1/8" = 1'-0"



3 **BUILDING L DEMO FLOOR PLAN - LIGHTING**
SCALE: 1/8" = 1'-0"



2 **BUILDING D DEMO FLOOR PLAN - PARTIAL ELECTRICAL**
SCALE: 1/8" = 1'-0"

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MILESTONES

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DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

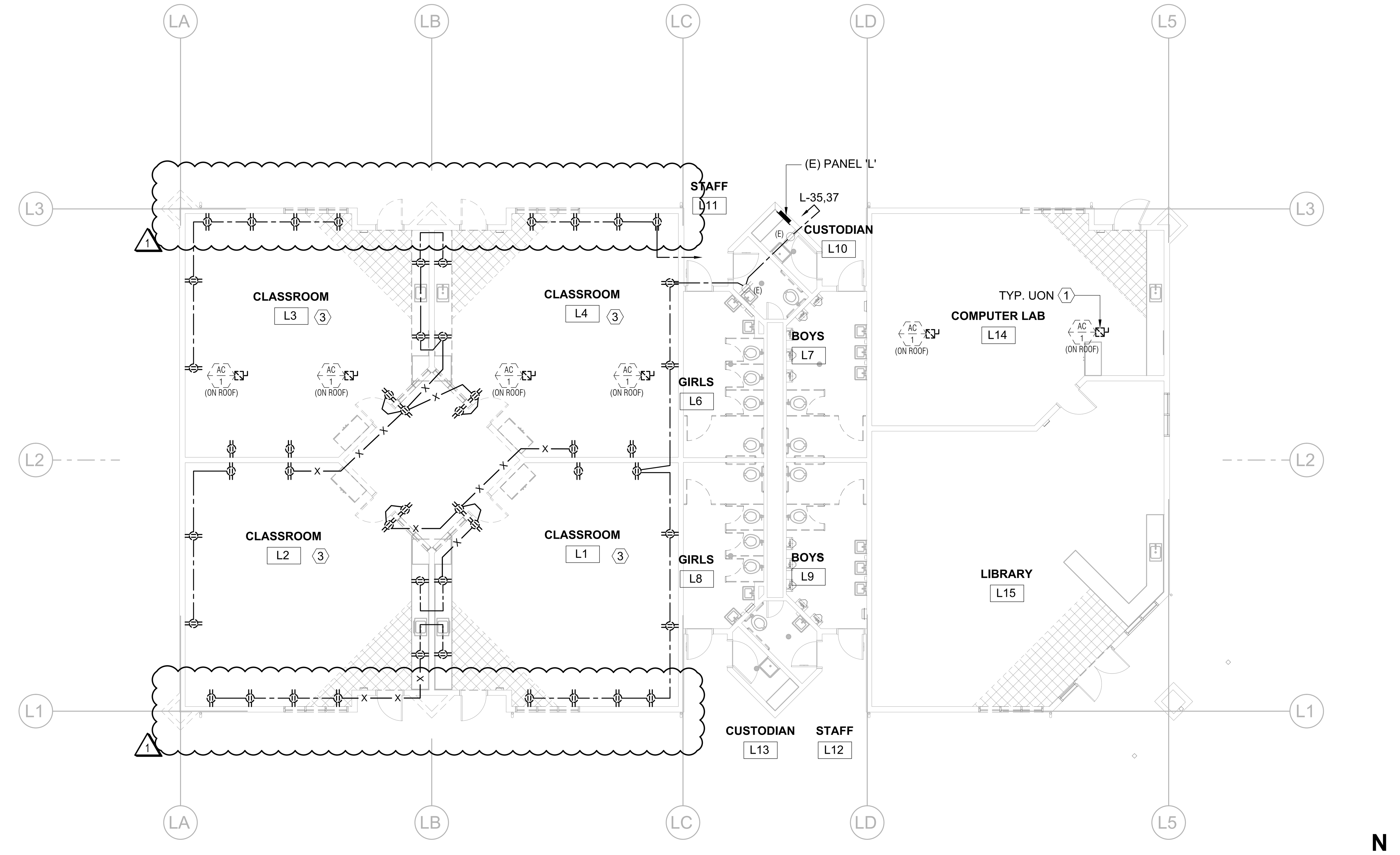
SHEET
BUILDINGS D & L DEMOLITION FLOOR PLAN - ELECTRICAL

DATE 11/15/2018
JOB # 2018045
SHEET # E2.31

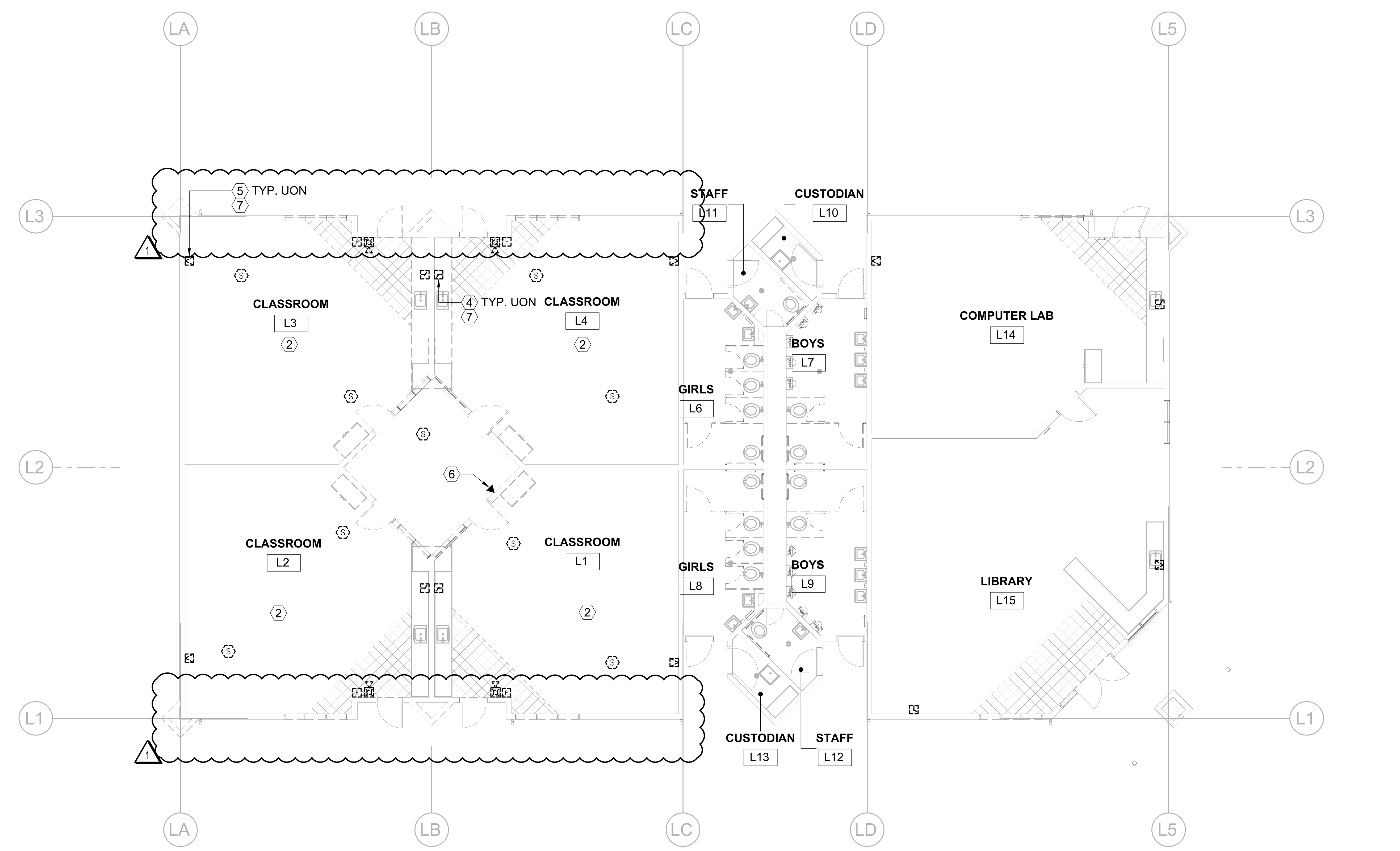
08/26/2019

NUMBERED NOTES

1. DISCONNECT (E) HVAC UNIT. PROTECT RACEWAY AND WIRING FOR CONNECTION TO (N) UNIT.
2. DISCONNECT AND REMOVE (E) FIRE ALARM DEVICES. REMOVE RACEWAY AND WIRING BACK TO LAST REMAINING DEVICE.
3. DISCONNECT AND REMOVE (E) RECEPTACLES SHOWN. UNLESS SHOWN TO BE REUSED ON OTHER PLANS. REMOVE RACEWAY AND WIRING BACK TO LAST REMAINING DEVICE.
4. DISCONNECT AND REMOVE (E) CLOCK. REMOVE RACEWAY AND WIRING BACK TO SOURCE.
5. DISCONNECT AND REMOVE (E) SPEAKER. REMOVE RACEWAY AND WIRING BACK TO SOURCE.
6. DISCONNECT AND REMOVE DATA OUTLET. REMOVE RACEWAY AND WIRING BACK TO SOURCE.
7. PROVIDE (N) BLANK PLATE. PROVIDE CUSTOM METAL PLATES AS NEEDED TO COVER ENTIRE OPENINGS. CUSTOM PLATES SHALL BE 18-GAUGE MINIMUM AND FINISHED WITH (3) COATS OF PAINTS AS DIRECTED BY ARCHITECT.



1 **BUILDING L DEMO FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"



2 **BUILDING L DEMO FLOOR PLAN - SIGNAL AND FIRE ALARM**
SCALE: 1/8" = 1'-0"

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MILESTONES

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50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

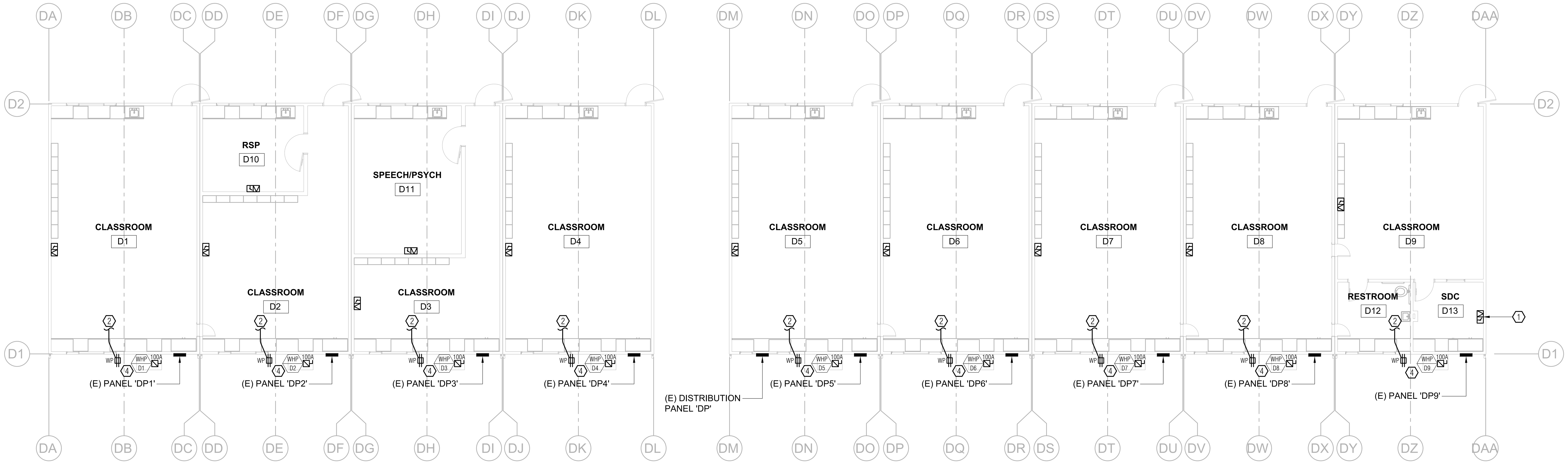
SHEET
BUILDINGS L DEMOLITION FLOOR PLANS - POWER, SIGNAL AND FIRE ALARM

DATE 11/15/2018
JOB # 2018045
SHEET # E2.32

08/26/2019

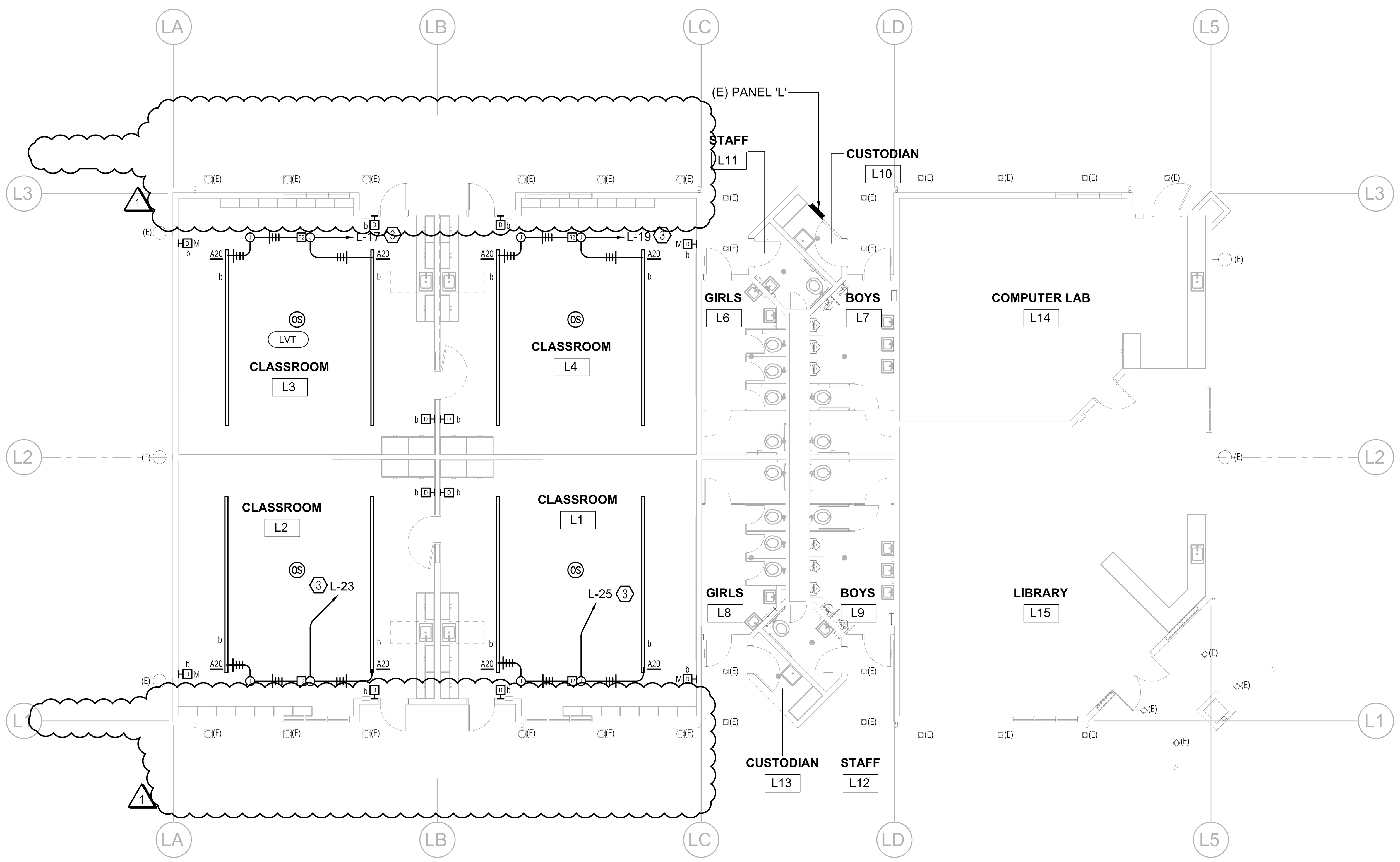
NUMBERED NOTES

1. PROVIDE 0.75"C (OR WIREMOLD EQUIVALENT WHERE EXPOSED) - 1D TO NEAREST (FIELD VERIFY) IDF. TYPICAL FROM EACH CLOCK/SPEAKER UON.
2. CONNECT TO (E) 120V RECEPTACLE CIRCUIT.
3. CONNECT TO (E) 20A/1P BREAKER LEFT UNUSED DUE TO DEMO WORK.
4. CONNECT TO (E) CIRCUIT(S). REFER TO MECHANICAL SCHEDULES (NEW UNIT VOLTAGE, PHASE AND LOAD TO MATCH EXISTING UNIT).



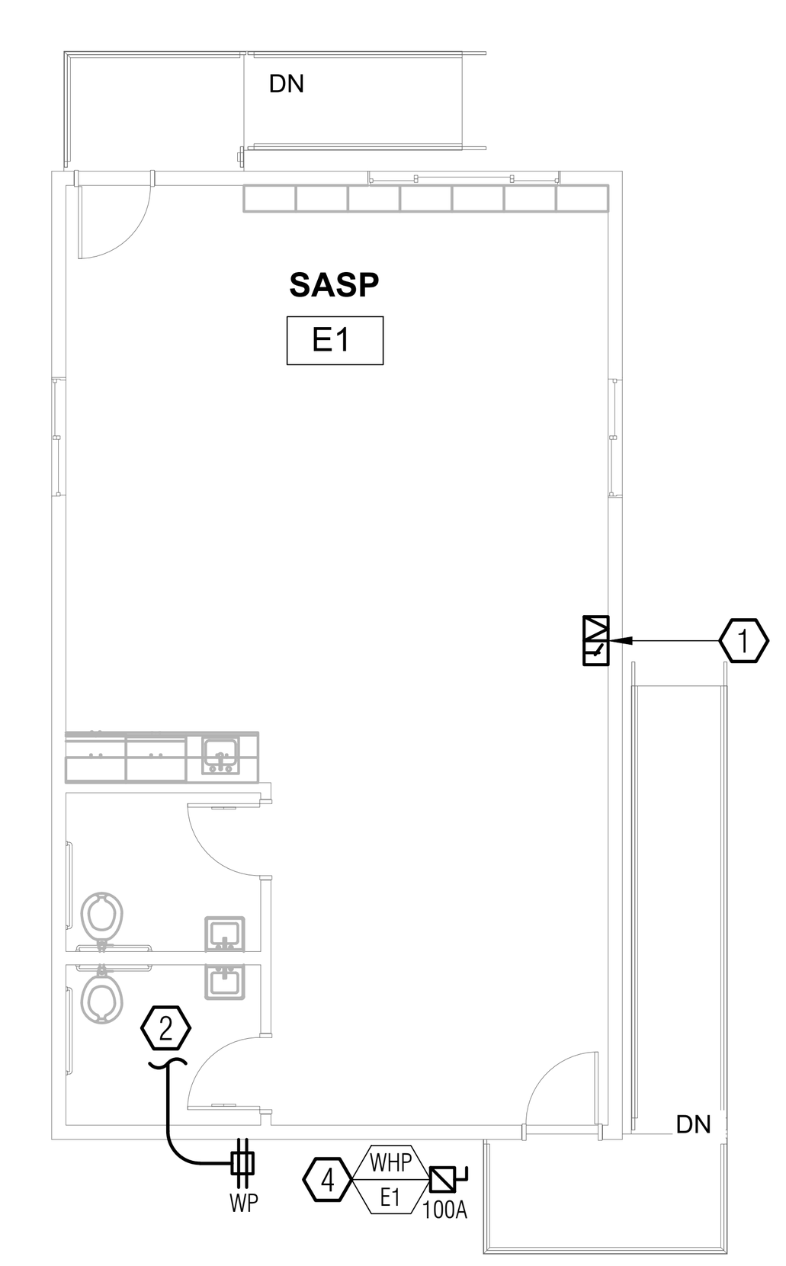
NOTE: COORDINATE LOCATIONS OF ALL LOW VOLTAGE DEVICES (CLOCKS, SPEAKERS, DATA, ETC.) WITH OWNER PRIOR TO ROUGH-IN

1 BUILDING D FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



NOTE: COORDINATE LOCATIONS OF ALL LOW VOLTAGE DEVICES (CLOCKS, SPEAKERS, DATA, ETC.) WITH OWNER PRIOR TO ROUGH-IN

3 BUILDING L FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



NOTE: COORDINATE LOCATIONS OF ALL LOW VOLTAGE DEVICES (CLOCKS, SPEAKERS, DATA, ETC.) WITH OWNER PRIOR TO ROUGH-IN

2 BUILDING D FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

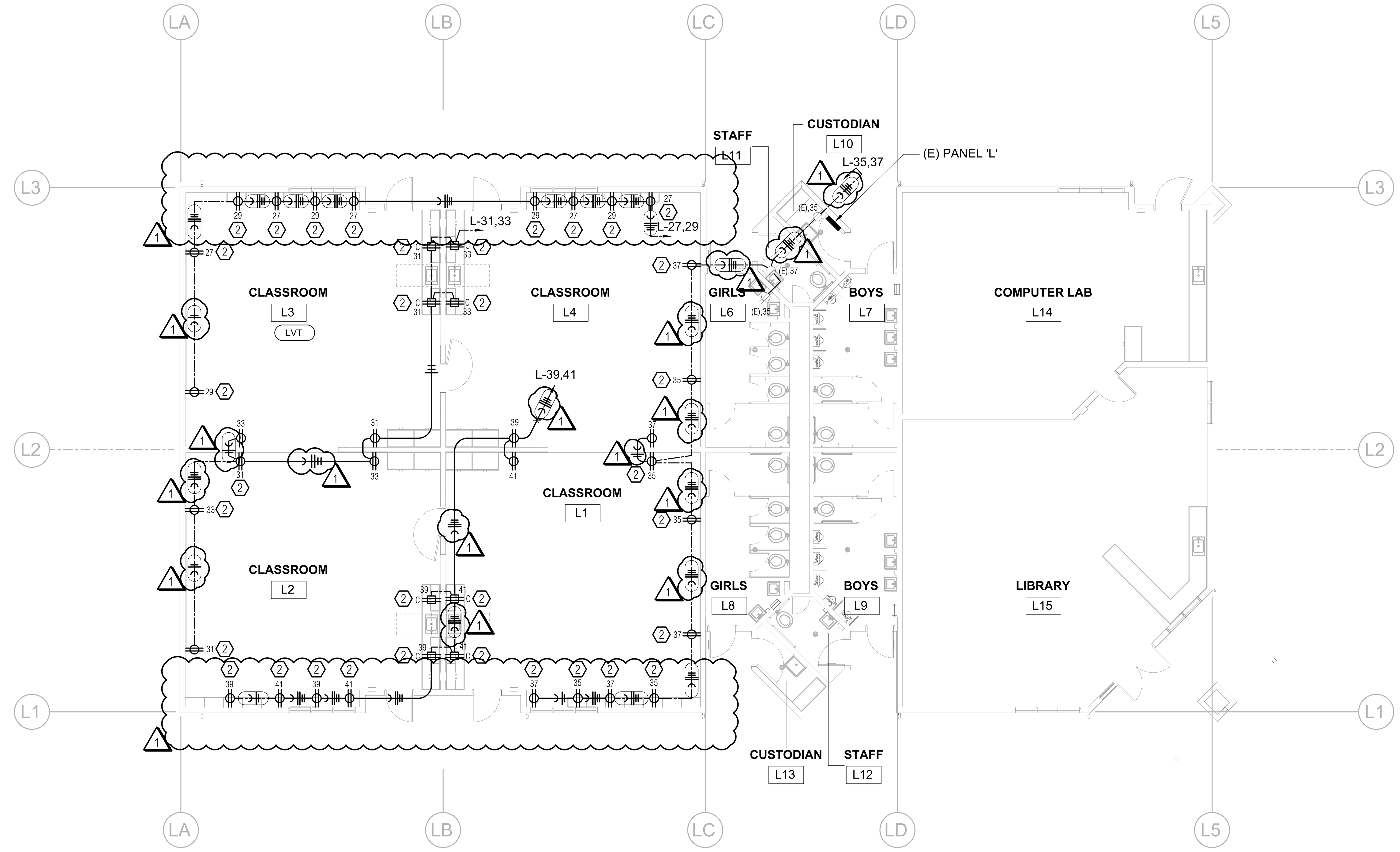
SHEET
BUILDING D FLOOR PLAN - ELECTRICAL AND BUILDING L FLOOR PLAN - LIGHTING

08/26/2019

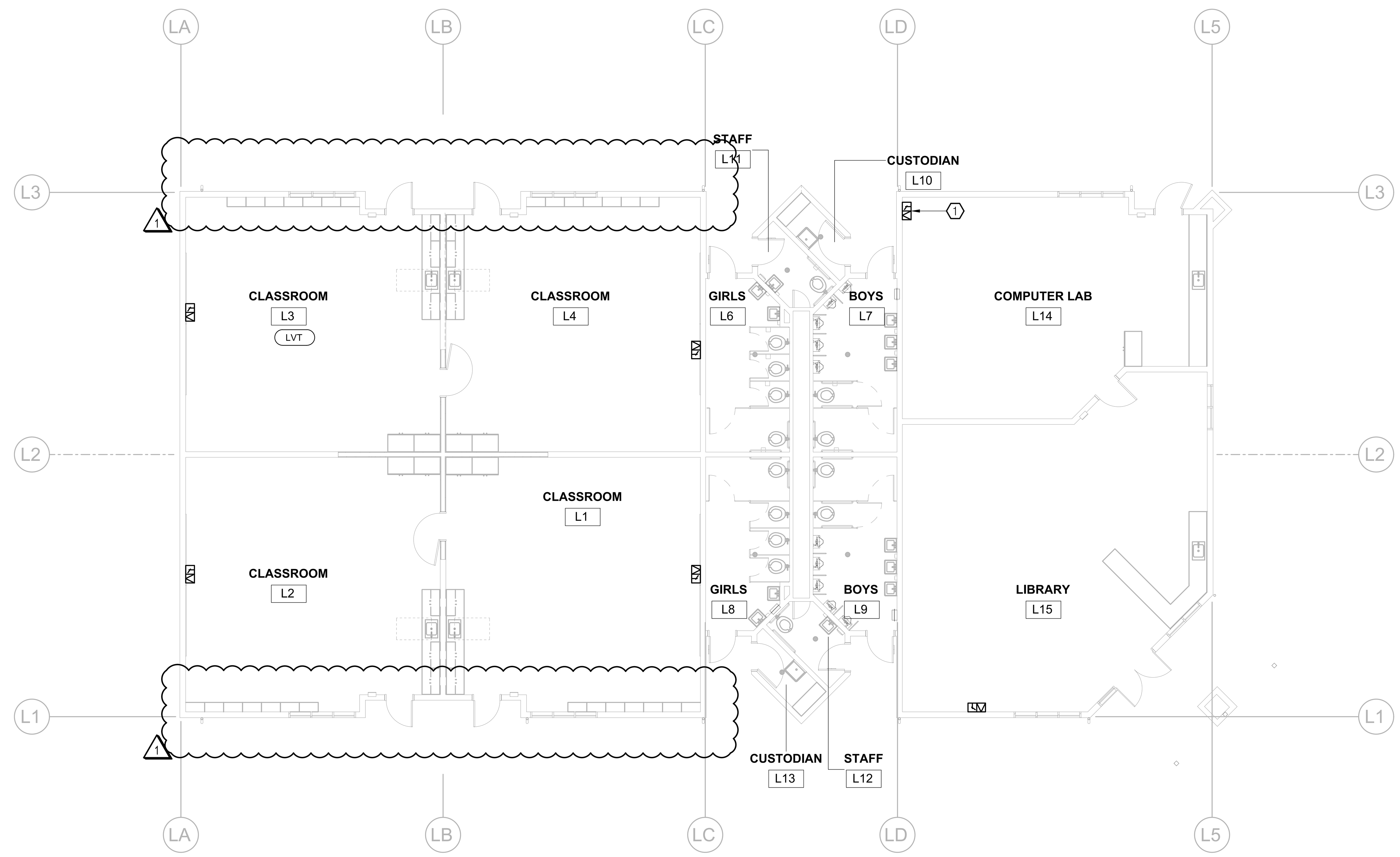
DATE 11/15/2018
JOB # 2018045
SHEET # E3.31

NUMBERED NOTES

1. PROVIDE 0.75"C (OR WIREMOLD EQUIVALENT WHERE EXPOSED) - 1D TO NEAREST (FIELD VERIFY) IDF. TYPICAL FROM EACH CLOCK/SPEAKER UON.
2. MOUNT IN (E) BOX. CONNECT TO (E) CIRCUIT.



1 BUILDING L FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



NOTE: COORDINATE LOCATIONS OF ALL LOW VOLTAGE DEVICES (CLOCKS, SPEAKERS, DATA, ETC.) WITH OWNER PRIOR TO ROUGH-IN

2 BUILDING L FLOOR PLAN - SIGNAL
SCALE: 1/8" = 1'-0"

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DSA SUB	01/11/2019
DSA BC	05/09/2019

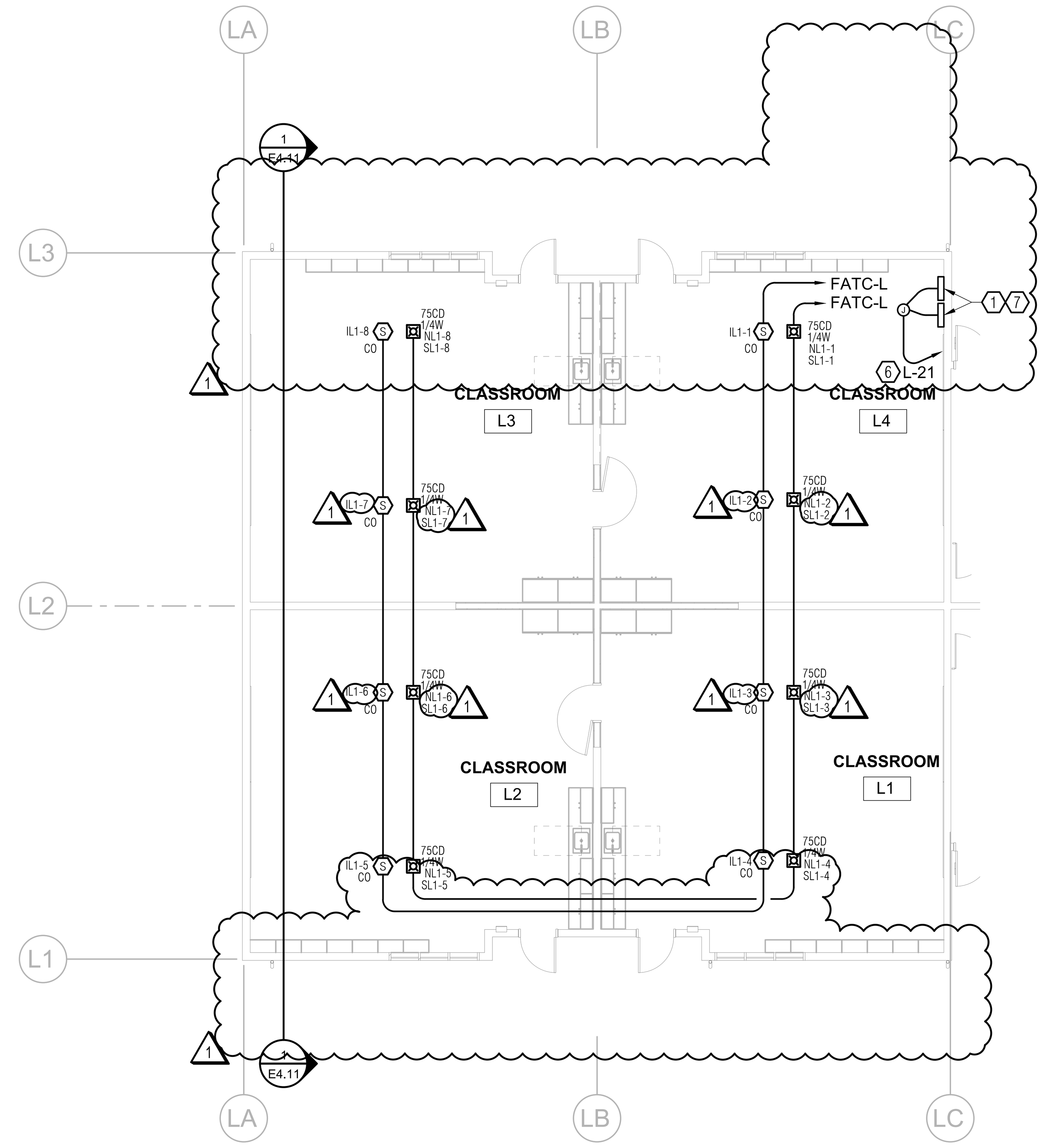
SHEET
BUILDING L FLOOR PLANS - POWER AND SIGNAL

DATE 11/15/2018
JOB # 2018045
SHEET # E3.32

08/26/2019

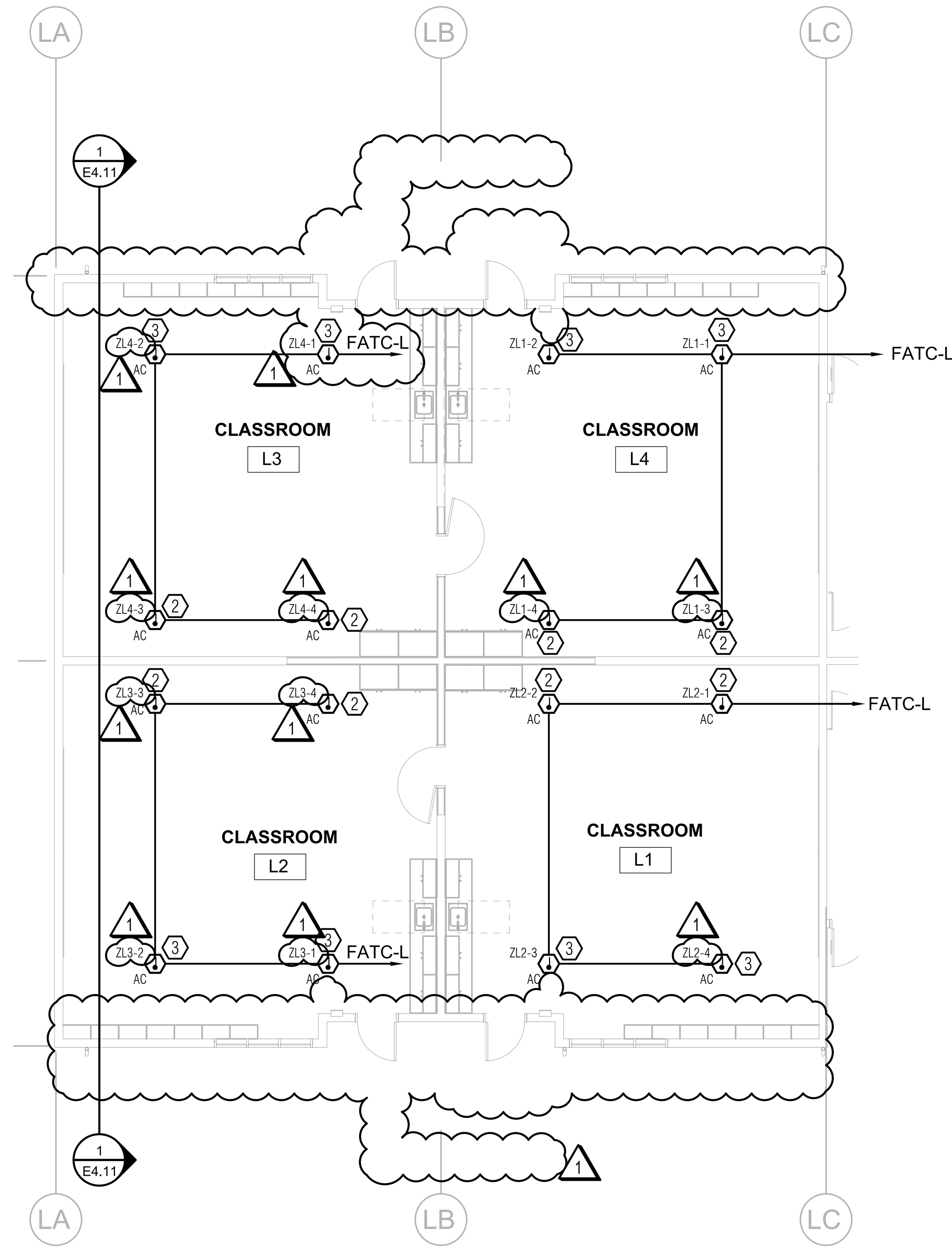
NUMBERED NOTES

1. 'FCPS-L' AND 'VAB-L': MOUNT WITH TOP AT 3" BELOW CEILING.
2. LOCATE WITHIN 3'-0" OF PEAK.
3. LOCATE WITHIN 3'-0" OF SHED.
4. CONNECT TO (E) 60A/2P CIRCUIT. MODIFY AS REQUIRED.
5. CONNECT TO (E) 120V RECEPTACLE CIRCUIT BELOW.
6. CONNECT TO (E) 20A/1P BREAKER LEFT UNUSED DUE TO DEMO WORK.
7. COORDINATE LOCATION IN FIELD WITH ARCHITECT.



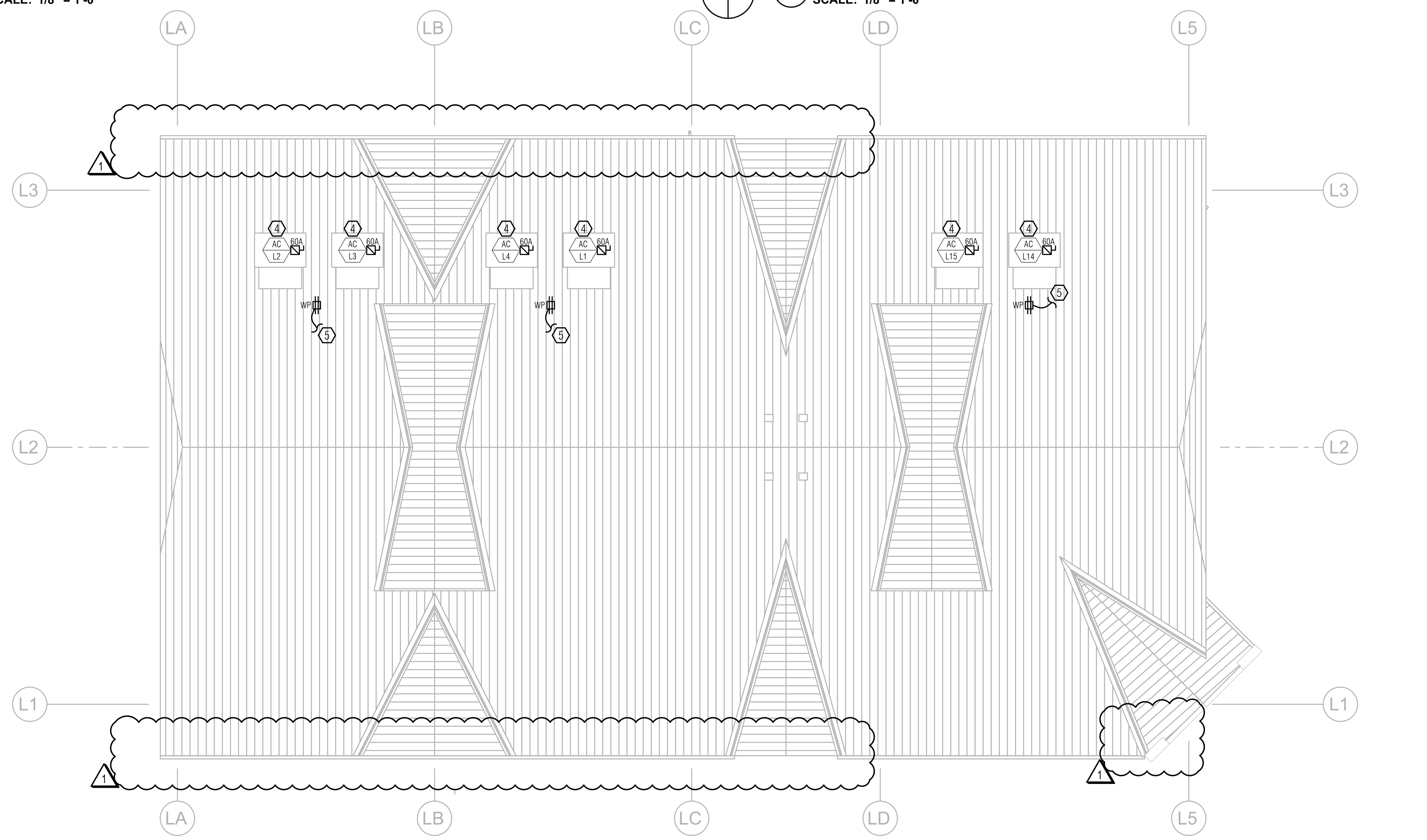
NOTES : 1. REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND CONSTRUCTION.
2. LOCATIONS OF ABOVE CEILING DETECTORS ARE BASED ON AVAILABLE RECORD DRAWINGS AND CASUAL FIELD OBSERVANCE. ACTUAL LOCATIONS SHALL BE FIELD COORDINATED TO PROVIDE TOTAL (COMPLETE) COVERAGE IN ACCORDANCE WITH 2016 NFPA 72 CHAPTER 17, SPECIFICALLY, PARAGRAPHS 17.5.3.1 AND 17.6.3. PROVIDE ADDITIONAL DETECTORS WHERE (E) CONDITIONS REQUIRE.

1 BUILDING L PARTIAL FLOOR PLAN - FIRE ALARM
SCALE: 1/8" = 1'-0"



NOTES : 1. REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND CONSTRUCTION.
2. LOCATIONS OF ABOVE CEILING DETECTORS ARE BASED ON AVAILABLE RECORD DRAWINGS AND CASUAL FIELD OBSERVANCE. 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. PROVIDE ADDITIONAL DETECTORS WHERE (E) CONDITIONS REQUIRE.

2 BUILDING L PARTIAL FLOOR PLAN - ABOVE CEILING HEAT DETECTORS
SCALE: 1/8" = 1'-0"



3 BUILDING L ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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PROJECT
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NO. C-25840
STATE OF CALIFORNIA

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No.	Description	Date
1	Addendum 1	08/05/2019

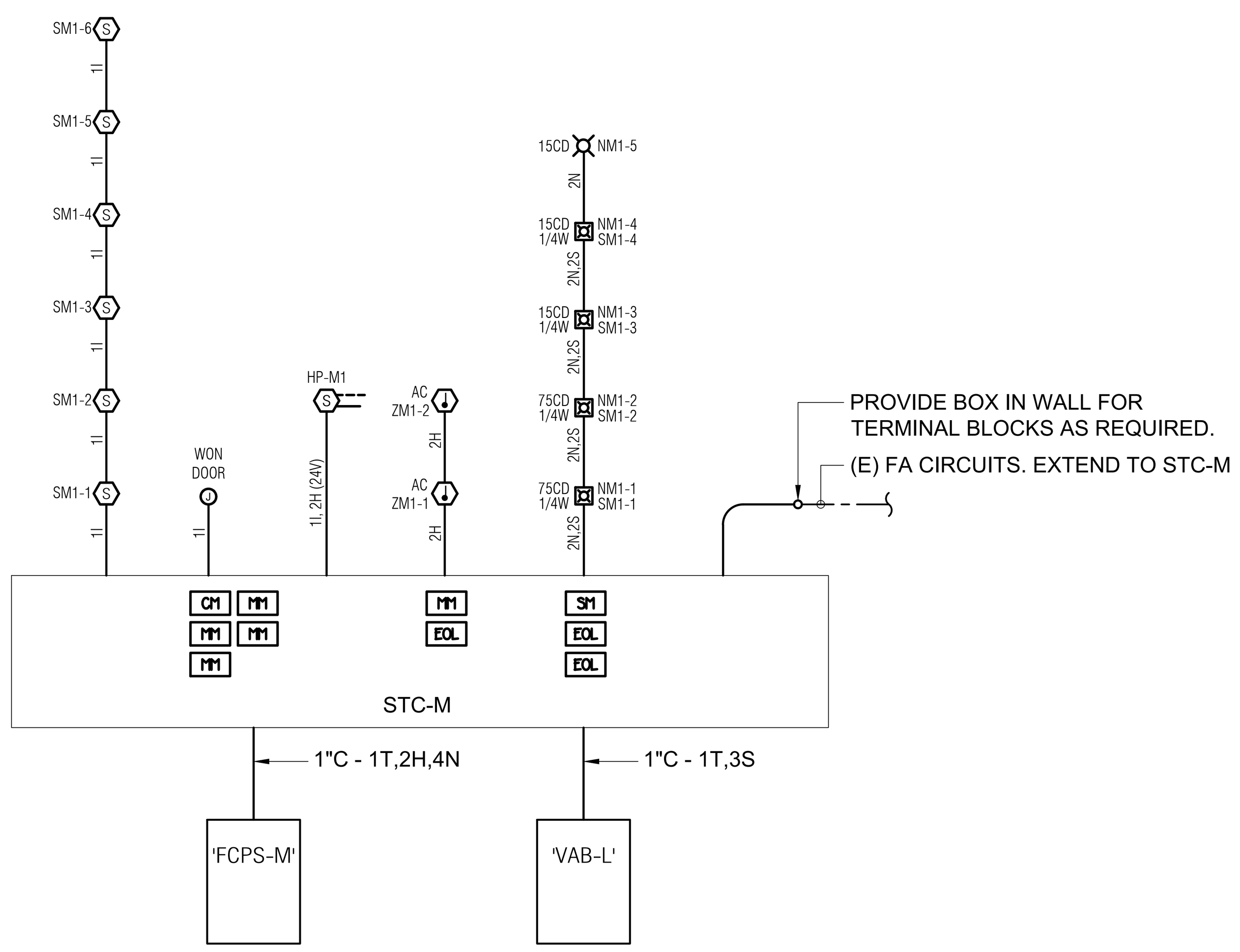
MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
BUILDING L FLOOR PLANS - FIRE ALARM AND ROOF PLAN - ELECTRICAL

REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA
08/26/2019

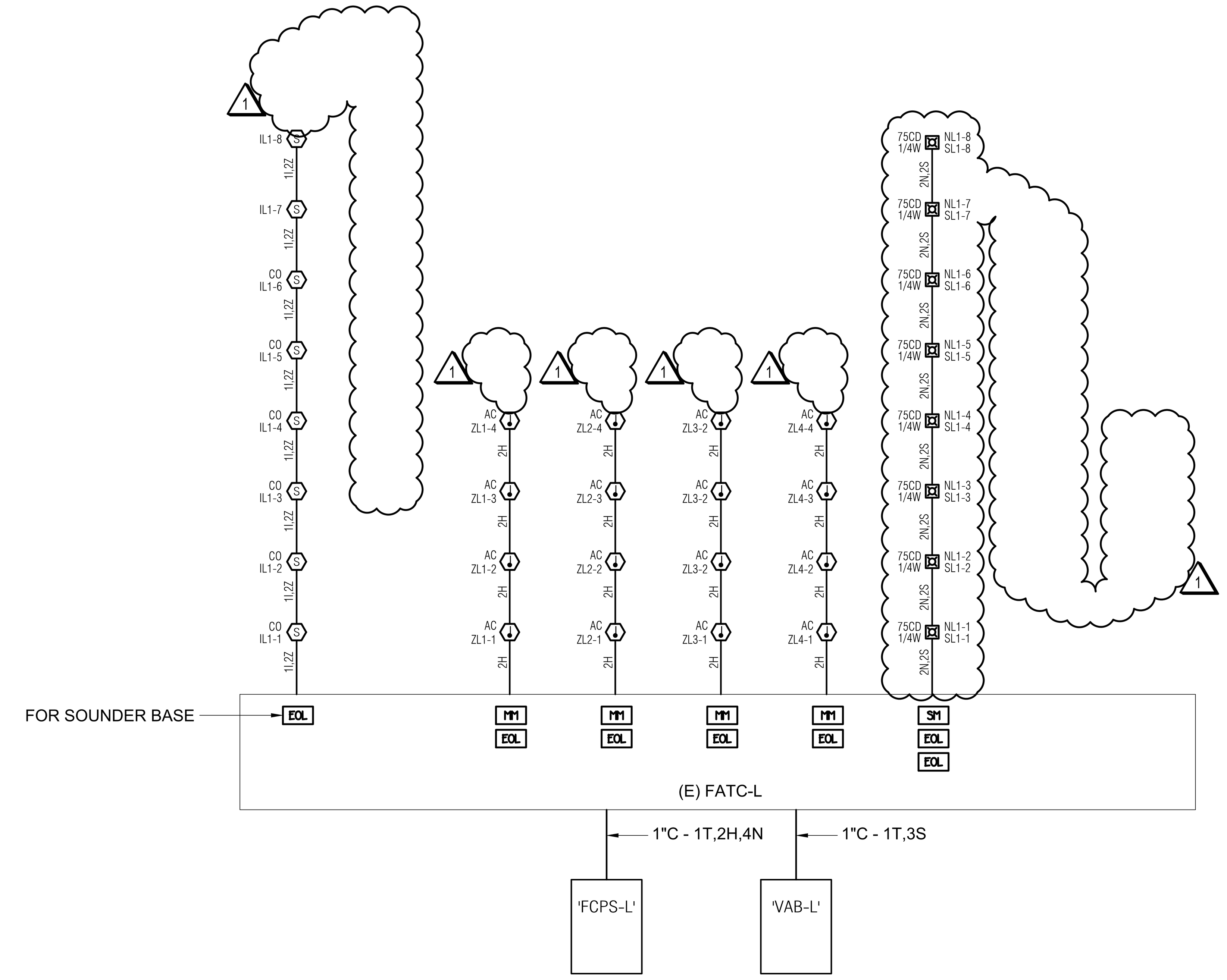
DATE 11/15/2018
JOB # 2018045
SHEET # E3.33



NOTE: ALL WIRING TO BE IN RACEWAY

1 FIRE ALARM RISER DIAGRAM - BUILDING M

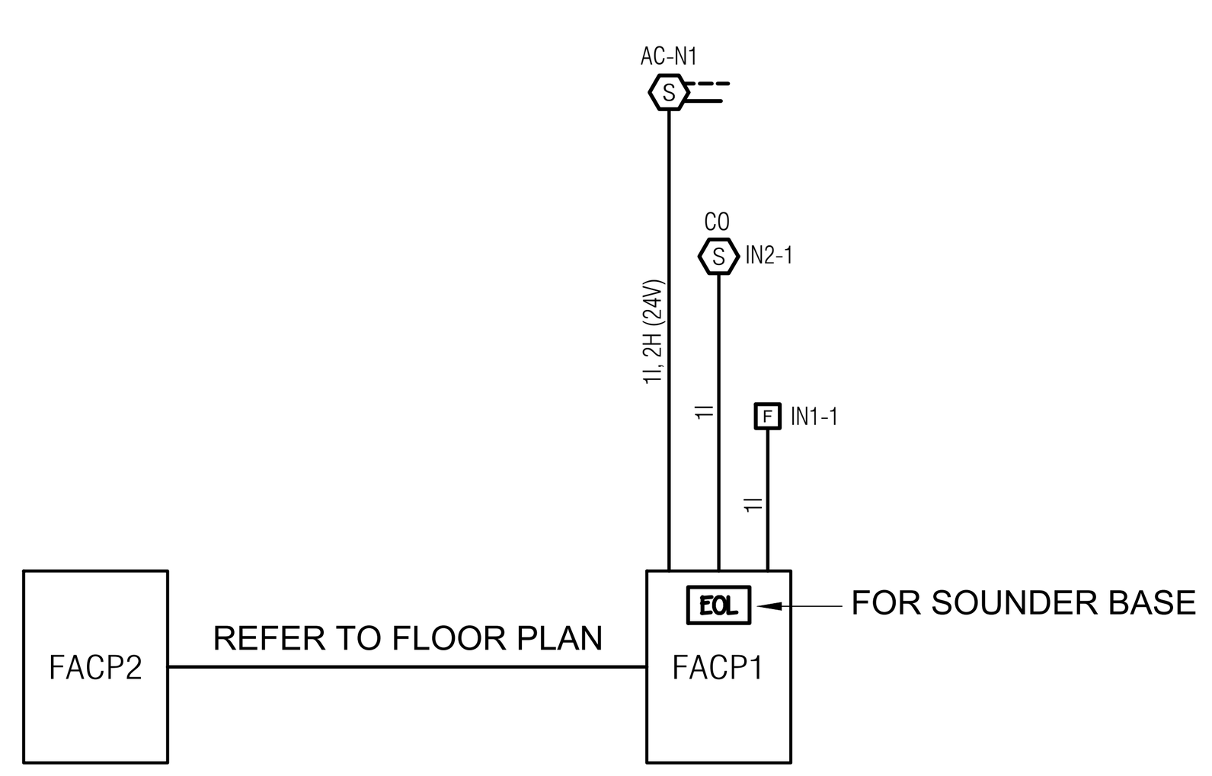
NO SCALE



NOTE: ALL WIRING TO BE IN RACEWAY

2 FIRE ALARM RISER DIAGRAM - BUILDING L

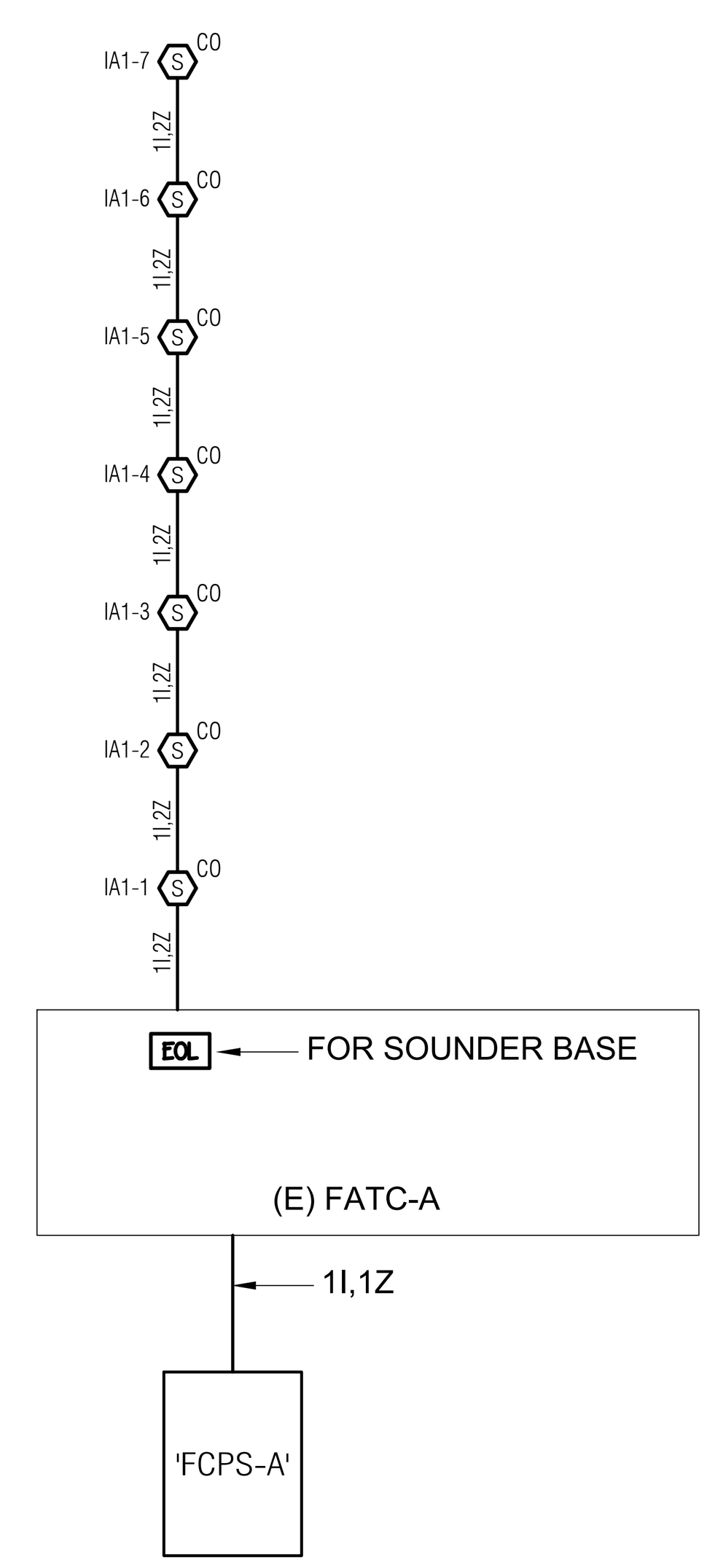
NO SCALE



NOTE: ALL WIRING TO BE IN RACEWAY

3 FIRE ALARM RISER DIAGRAM - BUILDING N

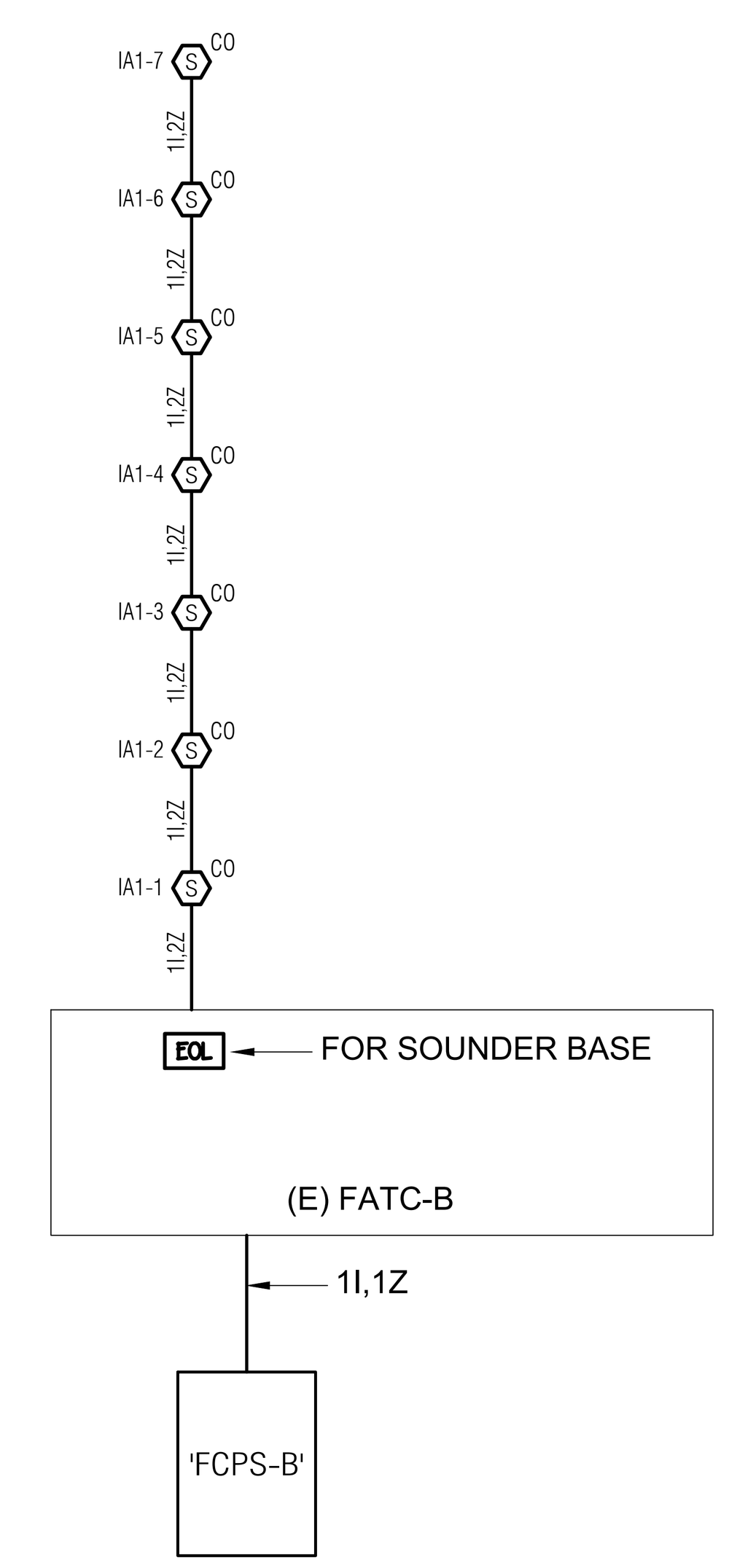
NO SCALE



NOTE: ALL WIRING TO BE IN RACEWAY

4 FIRE ALARM RISER DIAGRAM - BUILDING A

NO SCALE



NOTE: ALL WIRING TO BE IN RACEWAY

5 FIRE ALARM RISER DIAGRAM - BUILDING B

NO SCALE

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DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET

FIRE ALARM RISER DIAGRAMS

DATE 11/15/2018

JOB # 2018045

SHEET # E4.01

08/26/2019

Control Panel Designation: VAB-M

Facility Name: Scotten Elementary School
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)	SPB-80/4		Voice Evac Audio Booster/Amplifier		0.130	0.130	1	0.130	0.130
				Control Panel Modules Totals				**0.130**	**0.130**
Notification Appliance Circuits									
			Notification Circuit	S1	0.000	0.040	1	0.000	0.040
		Spare	Notification Circuit	S2	0.000	0.000	1	0.000	0.000
				Notification Appliance Circuit Totals				**0.000**	**0.040**
				Overall Totals				0.130	0.170

Summary:

Standby Amps x 24 hrs. = Amp hrs.	3.120
Alarm Current x 0.25 hrs = Amp hrs.	0.043
Total Amp Hour Current	3.163
20% Safety Factor	0.633
TOTAL AMP HOUR BATTERY REQUIRED	**3.795**
AH BATTERY PROVIDED	**12.0**

Notification Appliance Circuit Voltage Drop: S1

Source description: VAB-M
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: 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
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S1 -1	0.010	40	12	2.01	24.99	0.006	0.03%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S1 -2	0.010	30	12	2.01	24.99	0.010	0.04%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S1 -3	0.010	30	12	2.01	24.99	0.012	0.05%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	S1 -4	0.010	20	12	2.01	24.99	0.013	0.05%
		Total	**0.040**	**120**			**24.99**	**0.013**	**0.05%**

Summary:

Available Amp on Circuit	6 A	End of Line Voltage	24.99 V
Remaining Amp on Circuit	5.960 A	Total Voltage Drop	0.013 V
Remaining Amp % on Circuit	99.33%	Voltage Drop %	0.07%

Control Panel Designation: FCPS-M

Facility Name: Scotten Elementary School
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)	FCPS-24FS6		Remote Power Supply		0.065	0.145	1	0.065	0.145
				Control Panel Modules Totals				**0.065**	**0.145**
Notification Appliance Circuits									
			Notification Circuit	NM1	0.000	0.430	1	0.000	0.430
		Spare	Notification Circuit	N2	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N3	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N4	0.000	0.000	1	0.000	0.000
				Notification Appliance Circuit Totals				**0.000**	**0.430**
				Overall Totals				0.065	0.575

Summary:

Standby Amps x 24 hrs. = Amp hrs.	1.560
Alarm Current x 0.25 hrs = Amp hrs.	0.144
Total Amp Hour Current	1.704
20% Safety Factor	0.341
TOTAL AMP HOUR BATTERY REQUIRED	**2.045**
AH BATTERY PROVIDED	**7.0**

Notification Appliance Circuit Voltage Drop: NM1

Source description: FCPS-M
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
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NM1 -1	0.155	40	12	2.01	23.93	0.069	0.29%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NM1 -2	0.155	30	12	2.01	23.90	0.102	0.43%
LSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NM1 -3	0.040	30	12	2.01	23.88	0.117	0.49%
LSPSTRC (15cd)	Speaker/Strobe, Ceiling, 15cd	NM1 -4	0.040	20	12	2.01	23.88	0.123	0.51%
LSTRC (15cd)	Strobe, Ceiling, 15cd	NM1 -5	0.040	30	12	2.01	23.87	0.128	0.53%
		Total	**0.430**	**150**			**23.87**	**0.128**	**0.53%**

Summary:

Available Amp on Circuit	6 A	End of Line Voltage	23.87 V
Remaining Amp on Circuit	5.570 A	Total Voltage Drop	0.128 V
Remaining Amp % on Circuit	92.83%	Voltage Drop %	0.63%

Control Panel Designation: VAB-L

Facility Name: Scotten Elementary School
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)	SPB-80/4		Voice Evac Audio Booster/Amplifier		0.130	0.130	1	0.130	0.130
				Control Panel Modules Totals				**0.130**	**0.130**
Notification Appliance Circuits									
			Notification Circuit	SL1	0.000	0.120	1	0.000	0.120
		Spare	Notification Circuit	S2	0.000	0.000	1	0.000	0.000
				Notification Appliance Circuit Totals				**0.000**	**0.120**
				Overall Totals				0.130	0.250

Summary:

Standby Amps x 24 hrs. = Amp hrs.	3.120
Alarm Current x 0.25 hrs = Amp hrs.	0.063
Total Amp Hour Current	3.183
20% Safety Factor	0.637
TOTAL AMP HOUR BATTERY REQUIRED	**3.819**
AH BATTERY PROVIDED	**12.0**

Notification Appliance Circuit Voltage Drop: SL1

Source description: VAB-L
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: 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
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -1	0.010	85	12	2.01	24.96	0.041	0.16%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -2	0.010	25	12	2.01	24.95	0.052	0.21%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -3	0.010	30	12	2.01	24.94	0.064	0.26%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -4	0.010	40	12	2.01	24.92	0.079	0.31%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -5	0.010	20	12	2.01	24.91	0.085	0.34%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -6	0.010	40	12	2.01	24.90	0.096	0.39%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -7	0.010	20	12	2.01	24.90	0.101	0.40%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -8	0.010	25	12	2.01	24.89	0.106	0.42%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -9	0.010	30	12	2.01	24.89	0.111	0.44%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -10	0.010	25	12	2.01	24.89	0.114	0.46%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -11	0.010	40	12	2.01	24.88	0.117	0.47%
LSPSTRC (1/4W)	Speaker/Strobe, Ceiling, 1/4W	SL1 -12	0.010	20	12	2.01	24.88	0.118	0.47%
		Total	**0.120**	**400**			**24.88**	**0.118**	**0.47%**

Summary:

Available Amp on Circuit	6 A	End of Line Voltage	24.88 V
Remaining Amp on Circuit	5.880 A	Total Voltage Drop	0.118 V
Remaining Amp % on Circuit	98.00%	Voltage Drop %	0.58%

Control Panel Designation: FACP

Facility Name: Scotten Elmentary School
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)	EST3		EST 3 Fire Alarm Control Panel						
(N)	3-CPU3		Central Processor Unit		0.155	0.165	1	0.155	0.165
(N)	3-RS232		Communication Card		0.058	0.058	1	0.058	0.058
(N)	3-LCD		Liquid Crystal Display Module		0.040	0.042	1	0.040	0.042
(N)	3-ASU		Audio Master		0.080	0.080	1	0.080	0.080
(N)	3-MODCOM		Modem Communicator		0.060	0.095	1	0.060	0.095
(N)	3-ZA40		Zoned Audio Amplifier		0.062	2.480	2	0.124	4.960
(N)	3-SDDC1		Dual Signature Driver Controller		0.264	0.336	3	0.792	1.008
				Control Panel Modules Totals				**1.309**	**6.408**
Notification Appliance Circuits									
		Spare	Notification Circuit	N1	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N2	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N3	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N4	0.000	0.000	1	0.000	0.000
				Notification Appliance Circuit Totals				**0.000**	**0.000**
				Overall Totals				1.309	6.408

Summary:

Standby Amps x 24 hrs. = Amp hrs.	31.416
Alarm Current x 0.25 hrs = Amp hrs.	1.602
Total Amp Hour Current	33.018
20% Safety Factor	6.604
TOTAL AMP HOUR BATTERY REQUIRED	**39.622**
AH BATTERY PROVIDED	**55.0**

Control Panel Designation: FCPS-L

Facility Name: Scotten Elementary School
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)	FCPS-24FS6		Remote Power Supply		0.065	0.145	1	0.065	0.145
	SIGA-AB4GT		Sounder Base		0.002	0.041	8	0.016	0.328
				Control Panel Modules Totals				**0.081**	**0.473**
Notification Appliance Circuits									
			Notification Circuit	NL1	0.000	1.240	1	0.000	1.240
		Spare	Notification Circuit	N2	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N3	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N4	0.000	0.000	1	0.000	0.000
				Notification Appliance Circuit Totals				**0.000**	**1.240**
				Overall Totals				0.081	1.713

1

Summary:

Standby Amps x 24 hrs. = Amp hrs.	1.944
Alarm Current x 0.25 hrs = Amp hrs.	0.428
Total Amp Hour Current	2.372
20% Safety Factor	0.474
TOTAL AMP HOUR BATTERY REQUIRED (1)	**2.847**
AH BATTERY PROVIDED	**7.0**

Notification Appliance Circuit Voltage Drop: NL1

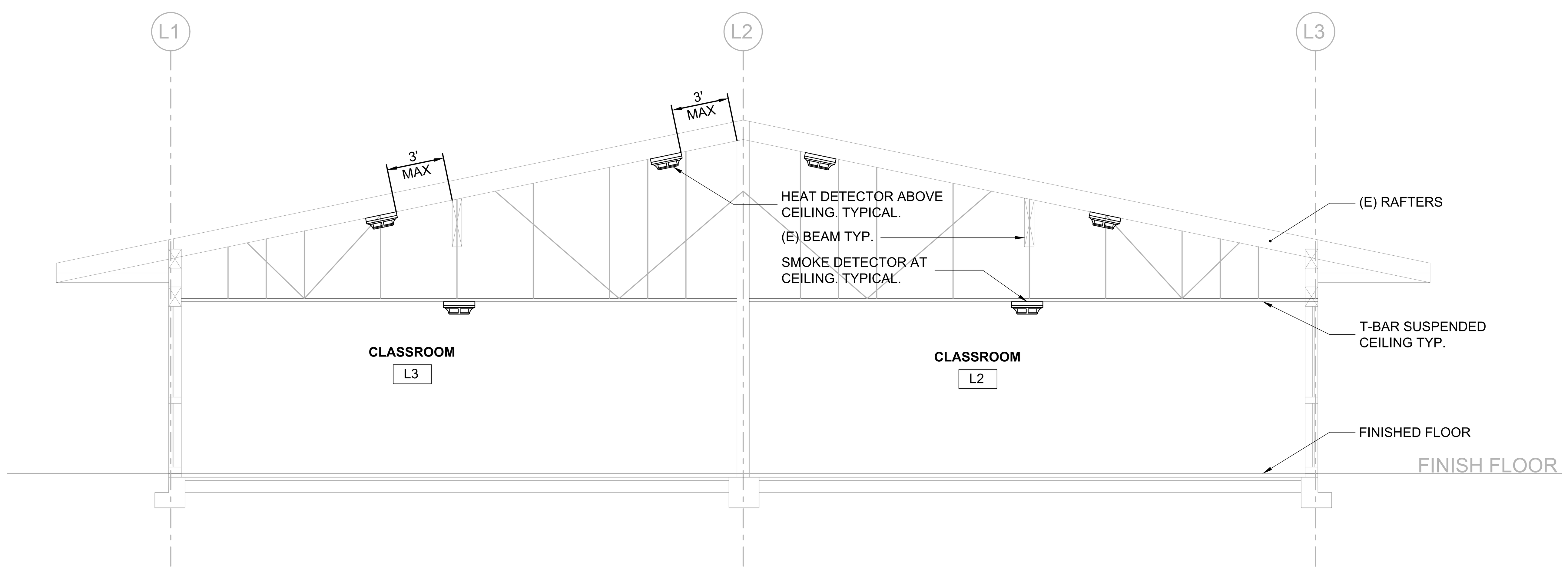
Source description: FCPS-L
This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=5.08, 14=3.19, 12=2.01, 10=1.26
18-10 Awg = Solid Conductors — Resistance for copper wire based on NEC Chapter 9, Table 8.
Nominal System Voltage: 24 V
Minimum Device 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
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -1	0.155	25	12	2.01	23.88	0.125	0.52%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -2	0.155	25	12	2.01	23.77	0.234	0.97%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -3	0.155	30	12	2.01	23.65	0.346	1.44%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -4	0.155	25	12	2.01	23.58	0.424	1.77%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -5	0.155	55	12	2.01	23.44	0.561	2.34%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -6	0.155	25	12	2.01	23.39	0.608	2.53%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -7	0.155	30	12	2.01	23.36	0.645	2.69%
LSPSTRC (75cd)	Speaker/Strobe, Ceiling, 75cd	NL1 -8	0.155	25	12	2.01	23.34	0.660	2.75%
		Total	**1.240**	**435**			**23.34**	**0.660**	**2.75%**

Summary:

Available Amp on Circuit	6 A	End of Line Voltage	23.34 V
Remaining Amp on Circuit	4.760 A	Total Voltage Drop	0.660 V
Remaining Amp % on Circuit	79.33%	Voltage Drop %	3.24%

1



1 SECTION

SCALE: 1/4" = 1'-0"

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PROJECT
MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT
EDGE ELECTRICAL CONSULTING

STAMP
LICENSED ARCHITECT — NO. C-25840 — STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET
FIRE ALARM CALCULATIONS AND SECTION

DATE 11/15/2018
JOB # 2018045
SHEET # E4.11

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — STATE OF CALIFORNIA
08/26/2019

PANEL M

PANEL M	SECTION 1 OF 1		BUS RATING: 400 AMP	THREE PHASE	VOLTAGE
	SERVING NORMAL	X	MAIN BREAKER: 400 AMP	4-WIRE	208/120Y
LOCATION: EXTERIOR	MOUNTING: FLUSH		MAIN LUGS ONLY	NEMA 3R ENCLOSURE	
PANEL A.I.C. 22,000	X SURFACE		FEED-THRU LUGS		

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
SPARE					20	1	1	A	2	1	15			0.36		CEF-3
SPARE					20	1	3	B	4	1	15			0.36		CEF-3
SPARE					20	1	5	C	6	1	20		1.08			RECEPTACLES
LIGHTING	0.96				20	1	7	A	8	1	20		0.36			RECEPTACLES
LIGHTING	0.96				20	1	9	B	10	1	20		0.90			RECEPTACLES
LIGHTING	0.88				20	1	11	C	12	1	20			0.60		TCP
LIGHTING	0.88				20	1	13	A	14	1	20					SPARE
LIGHTING	0.88				20	1	15	B	16	1	20					SPARE
LIGHTING	0.88				20	1	17	C	18	1	20					SPARE
POLE LIGHTS	1.92				20	1	19	A	20	1	20					SPARE
SPARE					20	1	21	B	22	1	20		1.08			RECEPTACLES
CEF-2			0.25		20	1	23	C	24	1	20					SPARE
SPACE					-	1	25	A	26	1	20					SPARE
SPACE					-	1	27	B	28	1	20					SPARE
SPACE					-	1	29	C	30	1	20					SPARE
SPACE					-	1	31	A	32	1	20					SPARE
SPACE					-	1	33	B	34	1	20					SPARE
SPACE					-	1	35	C	36	1	-					SPACE
SPACE					-	1	37	A	38	1	-					SPACE
SPACE					-	1	39	B	40	1	20		1.00			'SSR' RECEPTACLE
SPACE					-	1	41	C	42	1	20		1.00			'SSR' RECEPTACLE
RECEPTACLES		0.72			20	1	43	A	44	1	20	0.46				STAGE LIGHTING
RECEPTACLES		0.72			20	1	45	B	46	1	20	0.46				STAGE LIGHTING
RECEPTACLES		0.72			20	1	47	C	48	1	20	1.44				STAGE LIGHTING
RECEPTACLES		0.90			20	1	49	A	50	1	20	1.44				STAGE LIGHTING
SPARE					20	1	51	B	52	1	20	1.44				STAGE LIGHTING
SPARE					20	1	53	C	54	1	20	1.00				STAGE LIGHTING PANELS
-			3.71		-	-	55	A	56	1	20	0.86				LIGHTING
HP-M1			3.71		50	3	57	B	58	1	20				0.42	FCPS-M & VAB-M
-			3.71		-	-	59	C	60	1	20			0.72		ACCORDIAN FIRE PARTITION
-			7.20		-	-	61	A	62	-	-					UNUSABLE SPACE
MAU-1*			7.20		150	3	63	B	64	-	-					UNUSABLE SPACE
-			7.20		-	-	65	C	66	-	-					UNUSABLE SPACE
TOTALS --------->	7.36	3.06	32.98	0.00								7.10	5.42	2.04	0.42	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 18.08 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 8.48 KVA
TOTAL NONCONTINUOUS LOAD: 0.42 KVA
TOTAL MOTOR LOAD: 35.02 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

***SUB FEED**

TOTAL DEMAND LOAD:	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY:
62.00 KVA		4.48	5.18	4.69	62 KVA 172.08 AMP

(E) PANEL L

(E) PANEL L	SECTION 1 OF 1		BUS RATING: 225 AMP	THREE PHASE	VOLTAGE
	SERVING NORMAL	X	MAIN BREAKER: 225 AMP	4-WIRE	208/120Y
LOCATION: CUST. L10	MOUNTING: FLUSH		MAIN LUGS ONLY		
PANEL A.I.C. EXISTING	X SURFACE		FED-THRU LUGS		

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
AC-3 (L-3)			7.23		60	2	1	A	2	2	60			7.23		AC-3 (L-1)
							3	B	4							
AC-3			7.23		60	2	5	C	6	2	60			7.23		AC-3
							7	A	8							
AC-3 (L-4)			7.23		60	2	9	B	10	2	60			7.50		AC-2
							11	C	12							
CEF-1 (NO. STAFF)			0.14		1	15	13	A	14	1	15			0.14		CEF-3 (NO. GIRLS)
CEF-1 (NO. JAN.)			0.14		1	15	15	B	16	1	15			0.14		CEF-3 (SO. BOYS)
LIGHTING	**0.38**				1	20	17	C	18	1	15			0.14		CEF-3 (SO. GIRLS)
LIGHTING	**0.38**				1	20	19	A	20	1	15			0.14		CEF-3 (NO. BOYS)
SPARE	**0.00**				1	20	21	B	22	1	20	0.64				LIGHTING
LIGHTING	**0.38**				1	20	23	C	24	1	20	0.64				LIGHTING
LIGHTING	**0.38**				1	20	25	A	26	1	20	1.36				LIGHTING
RECEPTACLES		**0.90**			1	20	27	B	28	1	20	1.36				LIGHTING
RECEPTACLES		**0.90**			1	20	29	C	30	1	20	1.36				LIGHTING
RECEPTACLES		**0.72**			1	20	31	A	32	1	20		1.08			RECEPTACLES
RECEPTACLES		**1.54**			1	20	33	B	34	1	20		1.08			RECEPTACLES
RECEPTACLES		**1.26**			1	20	35	C	36	1	20		0.90			RECEPTACLES
RECEPTACLES		**1.08**			1	20	37	A	38	1	20		0.90			RECEPTACLES
RECEPTACLES		**0.90**			1	20	39	B	40	1	40					TCP 2
RECEPTACLES		**0.90**			1	20	41	C	42	1	40					SPARE
TOTALS --------->	1.54	8.20	21.97	0.00								5.36	3.96	22.52	0.00	<-------- TOTALS

1

TOTAL CONTINUOUS LOAD @ 125%: 8.62 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 11.08 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 44.49 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA 1

TOTAL DEMAND LOA	CONNECTED KVA TOTAL/PHASE	A	B	C	MIN. FEEDER CAPACITY
1 64.19 KVA	1	20.79	21.43	21.33	64.19 KVA 178.17 AMP 1

(E) 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.

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PROJECT

MARGARET SCOTTEN ES MODERNIZATION 2019

Grass Valley School District

GRASS VALLEY SCHOOL DISTRICT

CONSULTANT

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Oakland, CA 94612
510.775.3836
Project Number F396
Contact JEFF

STAMP

LICENSED ARCHITECT JOHN D. DIFFENDERFER NO. C-25840 REN. 07/31/19 STATE OF CALIFORNIA

STATE

REVISIONS

No.	Description	Date
1	Addendum 1	08/05/2019

MILESTONES

SD	
DD	
50% CD	
90% CD	
DSA SUB	01/11/2019
DSA BC	05/09/2019

SHEET

PANEL SCHEDULES

08/26/2019

DATE 11/15/2018

JOB # 2018045

SHEET # E6.01