1941 E. WORKMAN AVE. WEST COVINA, CA 91791

COVID 19 - COVINA VALLEY USD DISTRIC WIDE HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

ELECTRICAL DIAGRAMS AND SCHEDULES

ELECTRICAL DETAILS

TOTAL: 42 SHEETS

DSA APPLICATION #

A# 03-12234

SHEET INDEX

ARCHITECTURAL SITE PLAN OVERALL FLOOR PLAN AREA A - FLOOR PLAN AREA B - FLOOR PLAN AREA E - FLOOR PLAN AREA F - FLOOR PLAN OVERALL ROOF PLAN AREA A - ROOF PLAN AREA B - ROOF PLAN AREA F - ROOF PLAN OVERALL REFLECTED CEILING PLAN A3.1A AREA A - REFLECTED CEILING PLAN

AREA B - REFLECTED CEILING PLAN

AREA E - REFLECTED CEILING PLAN

AREA F - REFLECTED CEILING PLAN

.MECHANICAL.

MECHANICAL DETAILS MECHANICAL DETAILS M7.4 MECHANICAL DETAILS

A3.1B

MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE OVERALL MECHANICAL SITE PLAN AREA A - MECHANICAL FLOOR PLAN

MECHANICAL DETAILS

AREA B - MECHANICAL FLOOR PLAN AREA E - MECHANICAL FLOOR PLAN AREA F - MECHANICAL FLOOR PLAN AREA A - MECHANICAL ROOF PLAN AREA B - MECHANICAL ROOF PLAN AREA F - MECHANICAL ROOF PLAN

CONTROLS DIAGRAMS

MECHANICAL PLUMBING SITE PLAN

MECHANICAL DETAILS MECHANICAL SCHEDULES



PROJECT DIRECTORY

OVINA VALLEY UNIFIED SCHOOL DISTRICT 519 E. BADILLO ST. COVINA, CA 91723 CONTACT: BRIAN JOHNSON PH: 626.974.7000 BJOHNSON@C-VUSD.ORG

700 S. FLOWER ST. LOS ANGELES, CA 90017 CONTACT: JESSE MILLER PH: 213.800.9400

JMILLER@DLRGROUP.COM

STRUCTURAL ENGINEER 700 FLOWER ST 22ND FLOOR LOS ANGELES, CA 90017 CONTACT: NORMAN PATENA

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ELECTRICAL ENGINEER 700 FLOWER ST 22ND FLOOR

LOS ANGELES, CA 90017 CONTACT: NORMAN PATENA PH: 213.800.9400 NPATENA@DLRGROUP.COM 700 FLOWER ST 22ND FLOOR LOS ANGELES, CA 90017 CONTACT: TONG FANG (DONNA) ZHAO PH: 213.444.0610 DZHAO@DLRGROUP.COM

MECHANICAL ENGINEER

LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. <u>03-122234</u> File No. <u>19-25</u>

TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT

FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317(b))

THIS DRAWING OR PAGE

EXPIRATION DATE

1. WIND DESIGN CRITERIA (CBC 1603A.1.4) - STRUCTURAL DESIGN PARAMETERS

STATE. IT HAS BEEN EXAMINED BY ME FOR:

SPECIFICATIONS PREPARED BY ME, AND

ARE IN GENERAL CONFORMANCE WITH

HAVE BEEN COORDINATED WITH THE

riangle Project plans and specifications.

ARCHITECT OR ENGINEER DESIGNATED TO BE IN

ightharpoonup THE PROJECT DESIGN,

GENERAL RESPONSIBLE CHARGE

DESIGN ANALYSIS DATA

- WIND DESIGN SPEED: V:110 MPH

2. EARTHQUAKE DESIGN CRITERIA (CBC 1603A1.5)

- SEISMIC DESIGN CATEGORY: D

- L_P (IMPORTANCE FACTOR) = 1.0

3. DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A1.6) - ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF

ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF MIN.

- WIND EXPOSURE CATEGORY: B (PER ASCE 7-16)

- RISK CATEGORY: III

- SITE CLASS: D

 $-S_1 = 0.609$

 $-S_{MS} = 1.993$

 $-S_{M1} = 1.035$

 $-S_{DS} = 1.328$

 $-S_{D1} = 0.690$

JESSE MILLER

LICENSE NUMBER

PRINT NAME

C-32306

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS

WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS. AND IS ACCEPTABLE

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS

RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS

17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344"

ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES)

ARE IN GENERAL CONFORMANCE WITH

HAVE BEEN COORDINATED WITH THE

PROJECT PLANS AND SPECIFICATIONS.

THE PROJECT DESIGN INTENT,

ARCHITECT OR ENGINEER DELEGATED

LICENSE NUMBER

RESPONSIBILITY FOR THIS PORTION OF THE

EXPIRATION DATE

SCOPE OF WORK

ASSOCIATED CONDUITS, PIPING, SUPPORTS, ETC, REPLACEMENT WITH NEW ROOF MOUNTED HVAC LINITS AT ALL CLASSROOM BUILDINGS TO INCLUDE: NEW CURBS, CONTROLS, ELECTRICAL, ROOF PATCHING, FLASHING, CEILING TILES, WINDOW GLAZING, AND MISC SITE WORK AS REQUIRED. IN ADDITION REMOVAL AND REPLACEMENT OF EXISTING MPR UNIT WITH NEW HVAC SYSTEM.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AS REQUIRED

APPLICABLE CODES

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1. TITLE 24 CCR 2019 CAFILORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 TITLE CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR 2019 CALIFORNIA REFERENCED STANDARDS CODE (CEBC), PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIR MARSHAL REGULATIONS 2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

STANDARD FOR INSTALLATION OF SPRINKLERS SYSTEMS (CA AMENDED) 2016 ADDITION STANDARD FOR INSTALLATION OF SAND PIPE AND HOSE SYSTEMS (CA AMENDED) 2013 ADDITION STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 ADDITION STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2017 ADDITION STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 ADDITION NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2016 ADDITION NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 ADDITION STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVE STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2015 ADDITION STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF 2005 (R2010) AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 ADDITION STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2010) STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 ADDITION

DSA GENERAL NOTES

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338(b), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR). NOT WITH STANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS, COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, AND STRUCTURAL ENGINEER OF RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE). 3. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS (ACCESSIBILITY, STRUCTURAL ENGINEER, AND FIRE/LIFE/SAFETY) SHALL BE CONSIDERED AS A

CONSTRUCTION CHANGE DOCUMENT. AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-6 AND SECTION 4-338(b), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED 4. A DSA-CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINIOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED

IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR). 5. A DSA-ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK. 6. THE DSA-CERTIFIED PROJECT INSPECTOR AND DSA-ACCEPTED TESTING LAB SHALL BE EMPLOYED AND PAID BYTHE OWNER (DISTRICT) AND APPROVED BY ALL OF THE FOLLOWING: ARCHITEC OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT; STRUCTURAL ENGINEER OF RECORD; AND DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER

7. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) 8. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS 9. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN

WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION. CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR 10. FABRICATION AND INSTALLATION OF DEFFERED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTURAL SYSTEMS TO BE INSTALLED HAVE ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFFERED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFFERED SUBMITTAL ITEMS, PLEASE 11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH

ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED

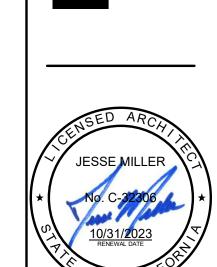
ALL LOCAL ORDINANCES. 12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS. MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE. 13. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). 14. MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1.

15. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD

16. A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.COM 17. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFICED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

18. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

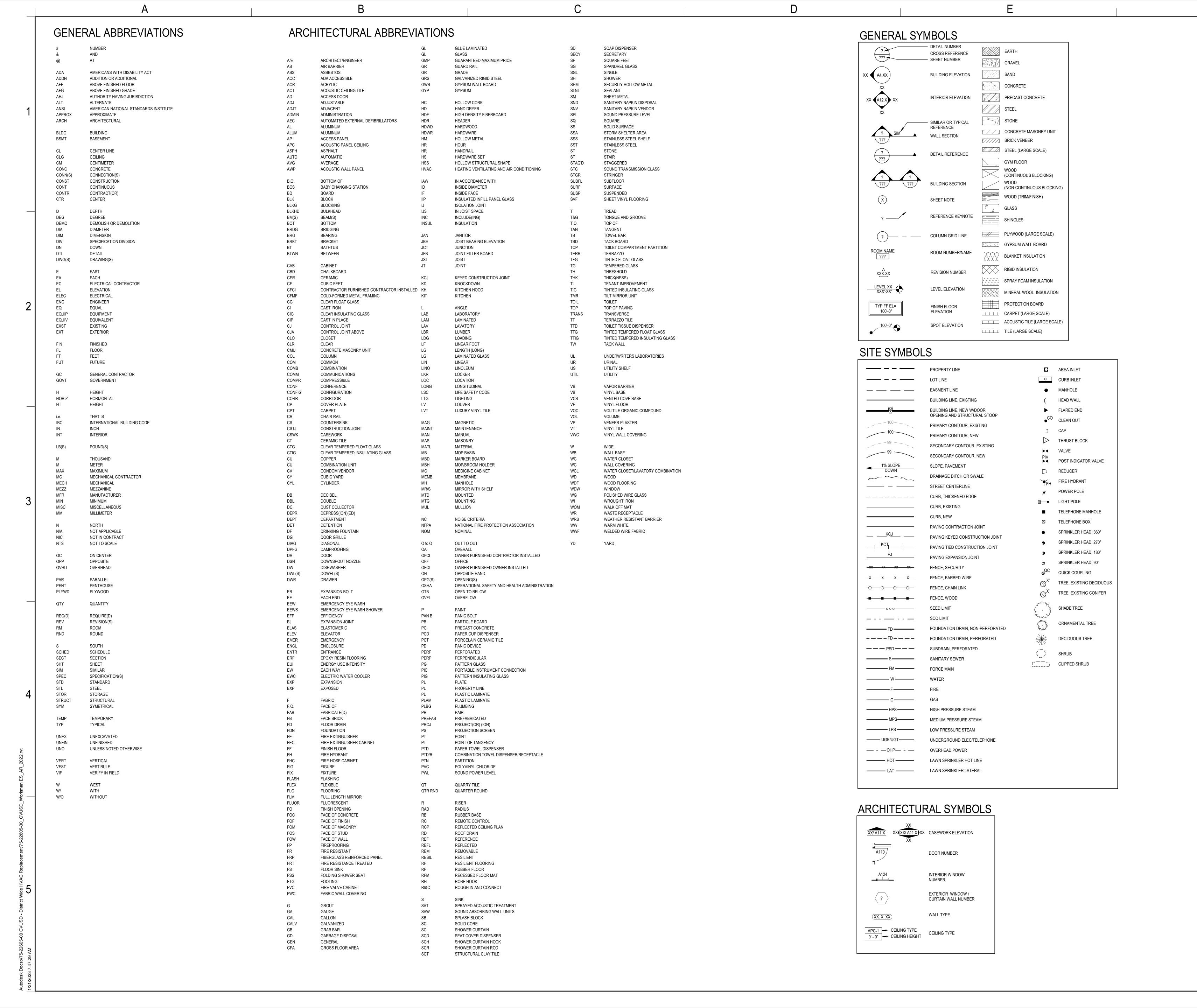
DLR Group





CONSTRUCTION **DOCUMENTS** 05/05/2022 REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 **COVER SHEET**



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS ✓ FLS ✓ ACS □ DATE: 02/16/2023

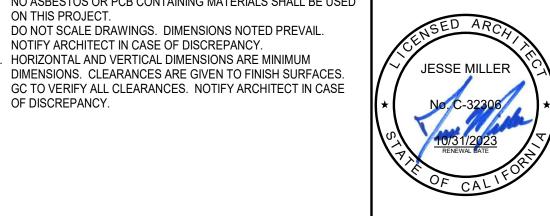
GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. C. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.). COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR. E. SEE FLOOR PLANS FOR LOCATION OF (E) WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE. . ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413. 6. COORDINATE WITH MECHANICAL AND ELECTRICAL

CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS. I. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.

GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS. K. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT. . DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY. M. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES.

OF DISCREPANCY.





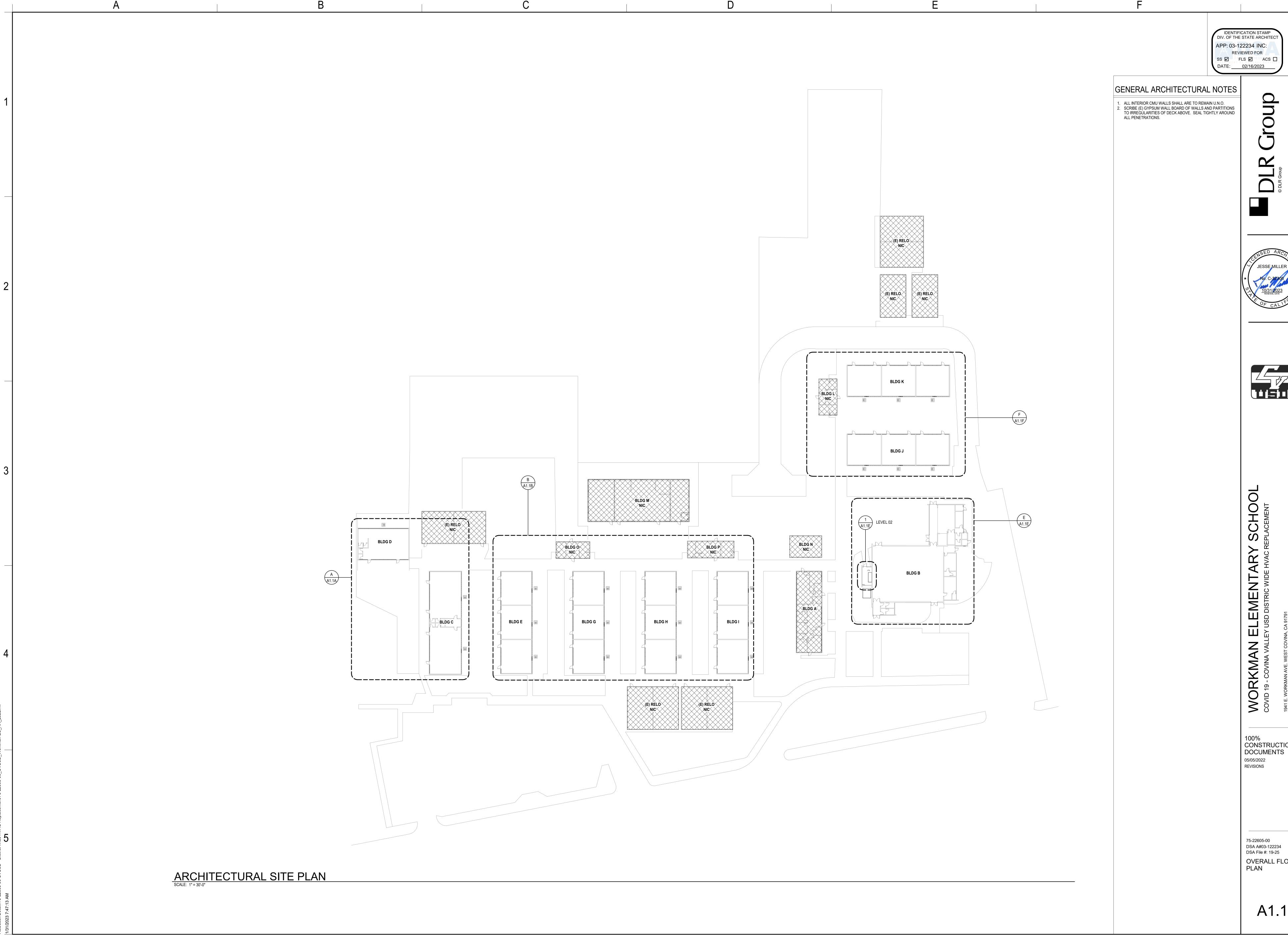


CONSTRUCTION **DOCUMENTS** 05/05/2022 REVISIONS

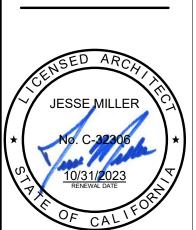
75-22605-00 DSA A#03-122234 DSA File #: 19-25 **GENERAL NOTES** SYMBOLS AND **ABBREVIATIONS**

G1.





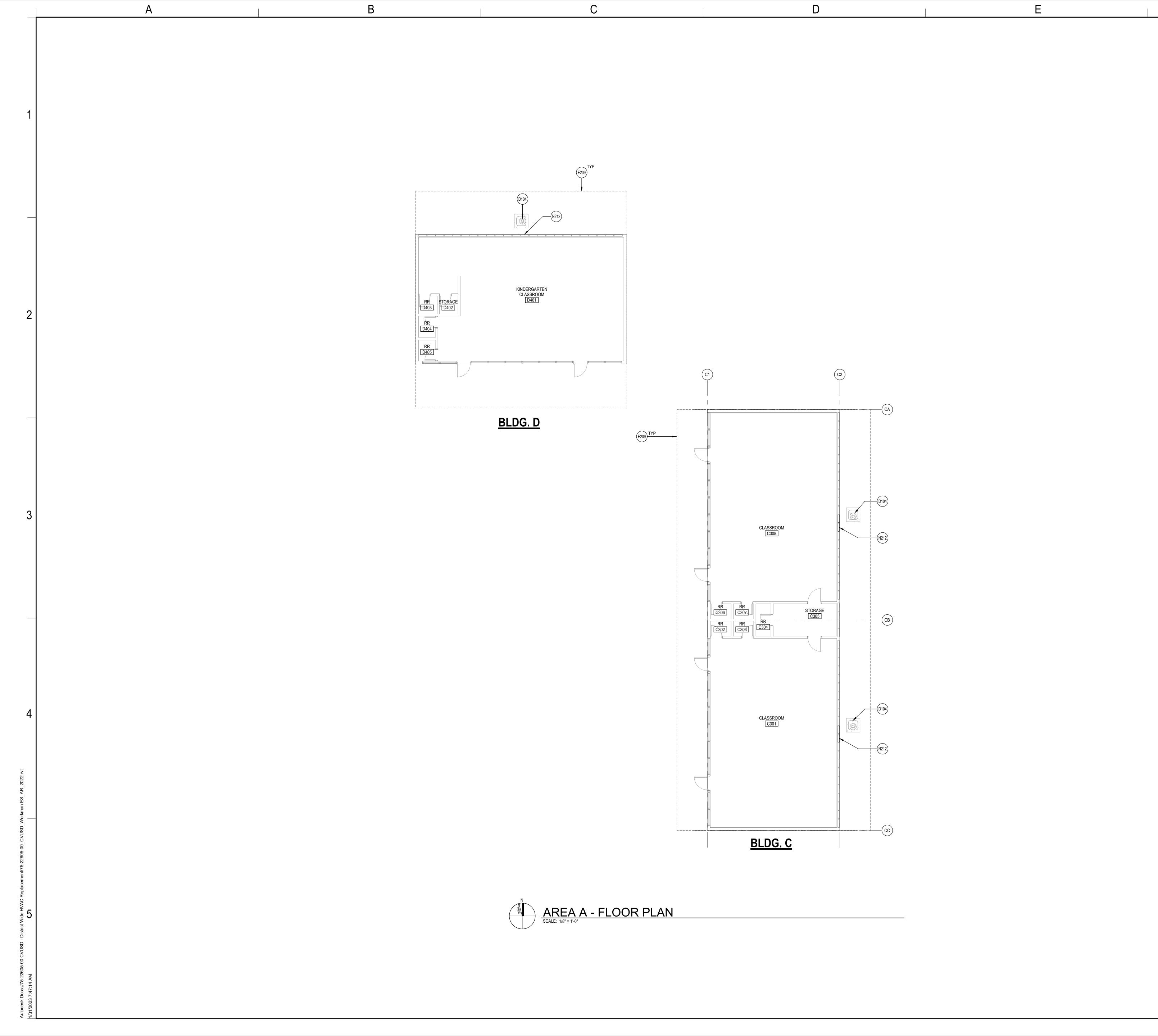
SS 🗹 FLS 🗹 ACS 🗌







75-22605-00 DSA A#03-122234 DSA File #: 19-25 OVERALL FLOOR PLAN



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 02/16/2023

REFERENCE KEYNOTES

D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC.
PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL &
PLUMBING DWG. CONTRACTOR TO PATCH AND
REPAIR AREA OF DEMO WITH (N) ASPHALT, (N)
CONCRETE OR (N) LANDSCAPING TO MATCH

DIAGON CONCRETE OR (N) LANDSCAPING TO MATCH
ADJACENT SURFACE

LINE OF (E) ROOF ABOVE SHOWN DASHED

REPLACE (E) INFILL PANEL AT CONDENSER UNIT
PENETRATIONS WITH GLAZING TO MATCH
ADJACENT. PAINT FRAME TO MATCH ADJACENT



GENERAL ARCHITECTURAL NOTES

 ALL INTERIOR CMU WALLS SHALL ARE TO REMAIN U.N.O.
 SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.





DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-

APPROVED AND COORDINATED WITH THE OWNER'S
REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE
FOR USER'S SAFETY.
COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE

GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.

D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.

E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE

G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.

H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS

I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH

AND/OR CONDITION.

J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.

K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT

INTERRUPTION OF THEIR SERVICE.

L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS

REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH

NEW OR EXISTING ADJACENT SURFACES.

N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.

O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLAB

INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.

Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

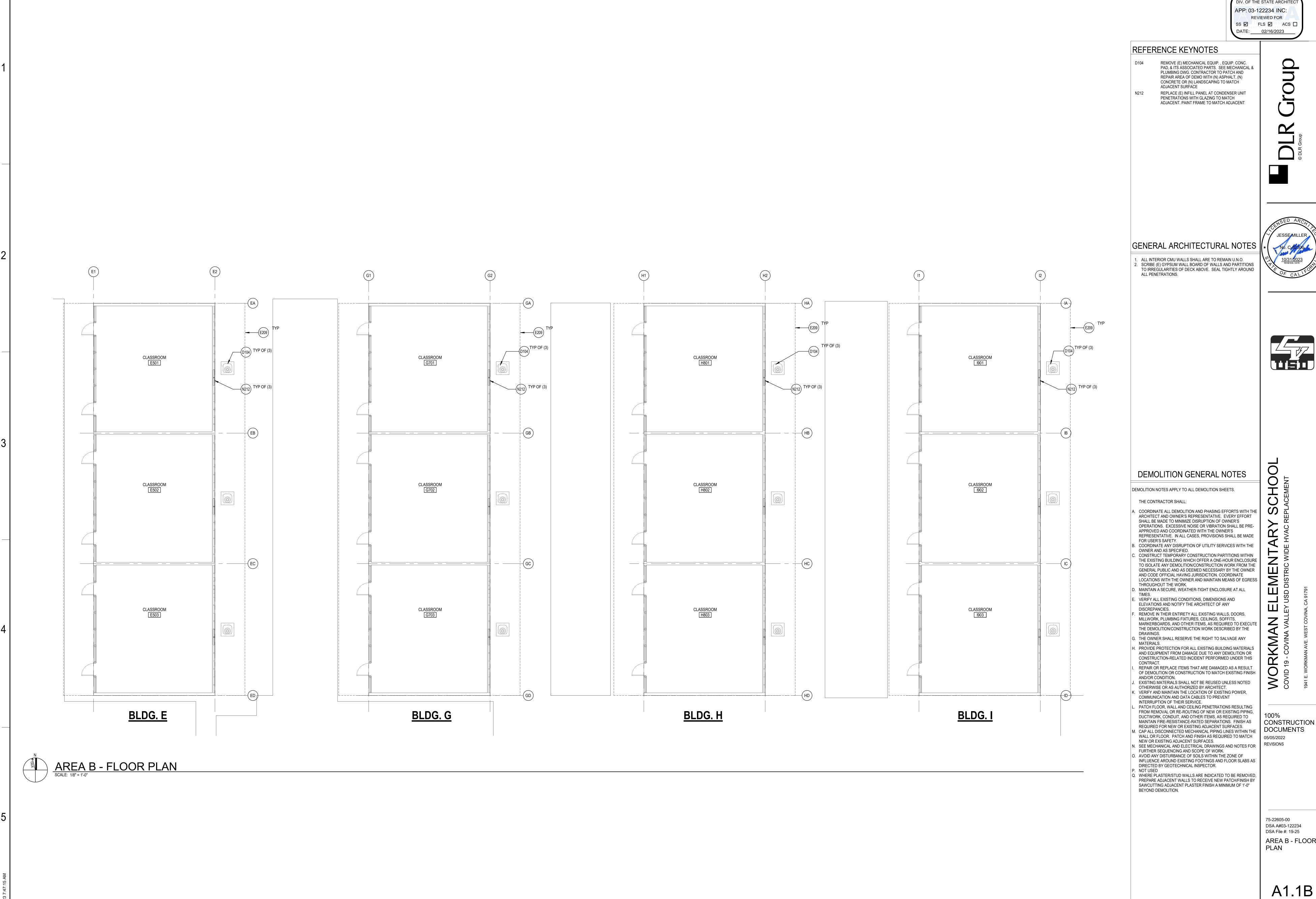
CONSTRUCTION

05/05/2022

REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA A - FLOOR PLAN

A1.1A

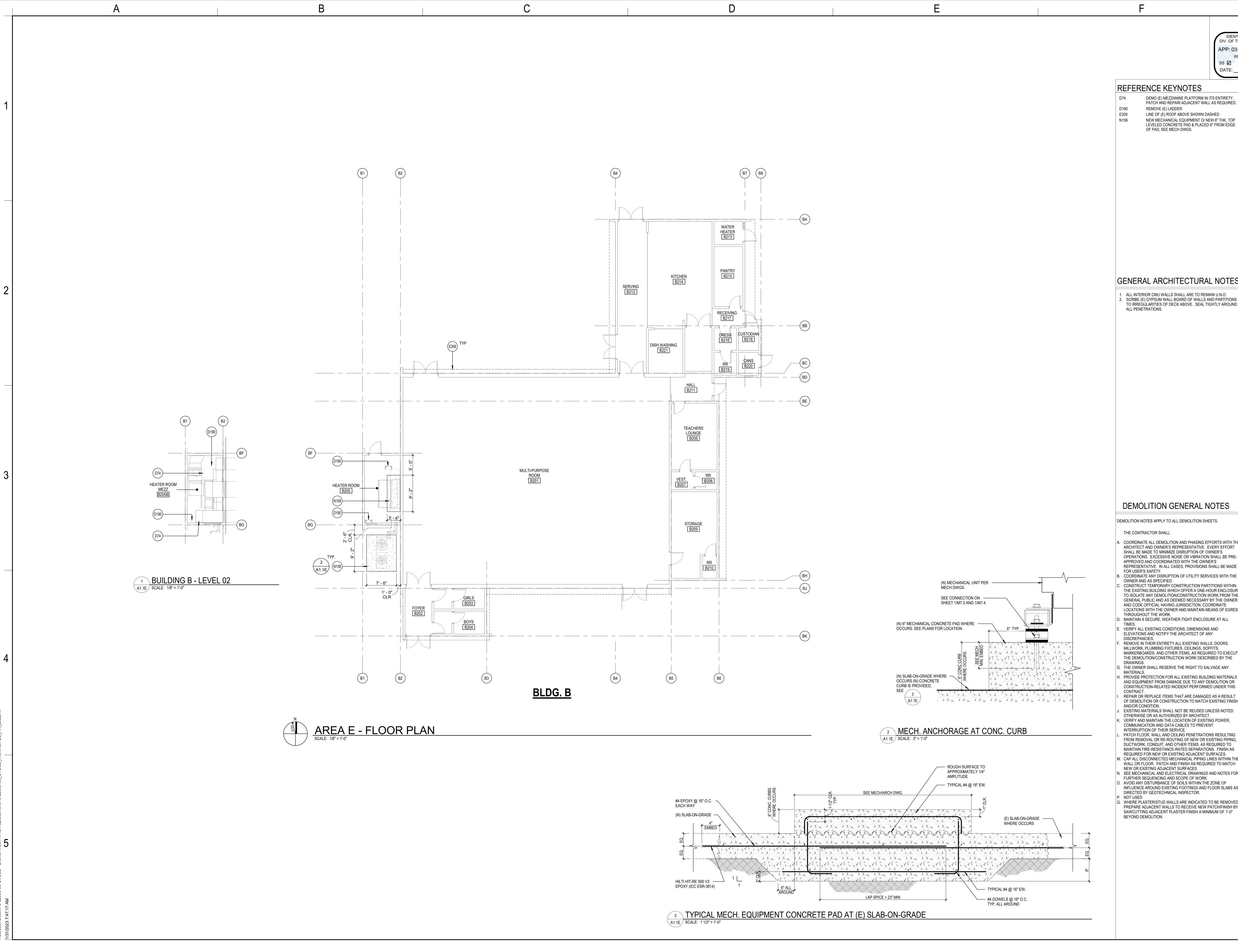


IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC





AREA B - FLOOR



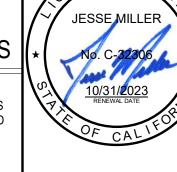
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 02/16/2023

DEMO (E) MEZZANINE PLATFORM IN ITS ENTIRETY.

PATCH AND REPAIR ADJACENT WALL AS REQUIRED. REMOVE (E) LADDER LINE OF (E) ROOF ABOVE SHOWN DASHED NEW MECHANICAL EQUIPMENT O/ NEW 6" THK, TOP LEVELED CONCRETE PAD & PLACED 6" FROM EDGE

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL ARE TO REMAIN U.N.O. 2. SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND





DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE
- B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER
- AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL
- E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY
- F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE
- G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH
- . EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING
- DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH
- NEW OR EXISTING ADJACENT SURFACES. N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.). AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS
- Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0"

CONSTRUCTION

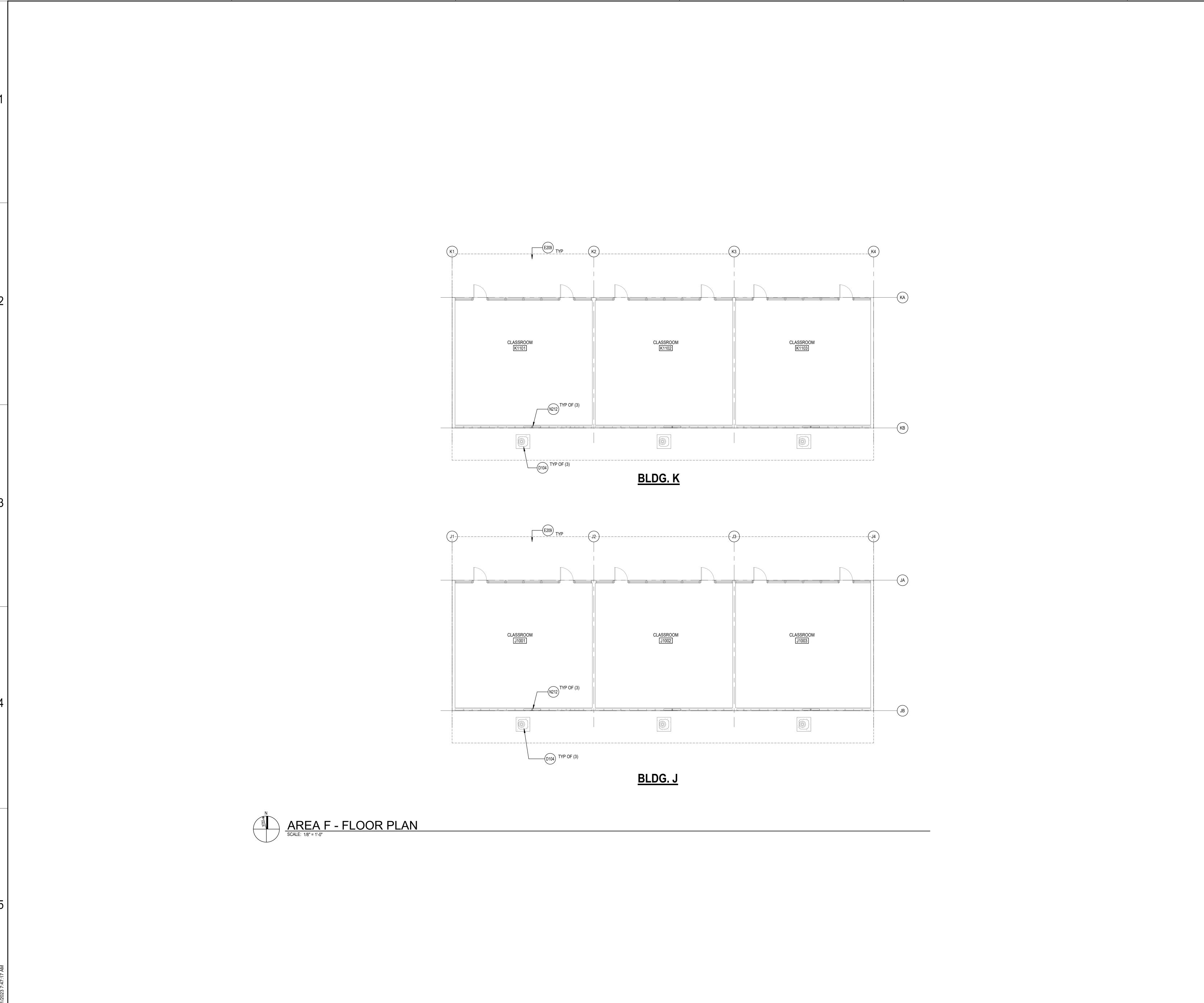
DOCUMENTS

05/05/2022

REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA E - FLOOR PLAN

A1.1E



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 02/16/2023

REFERENCE KEYNOTES

D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC.
PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL &
PLUMBING DWG. CONTRACTOR TO PATCH AND
REPAIR AREA OF DEMO WITH (N) ASPHALT, (N)
CONCRETE OR (N) LANDSCAPING TO MATCH
ADJACENT SURFACE

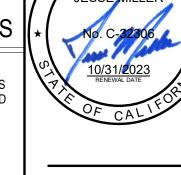
ADJACENT SURFACE

REPLACE (E) INFILL PANEL AT CONDENSER UNIT
PENETRATIONS WITH GLAZING TO MATCH
ADJACENT. PAINT FRAME TO MATCH ADJACENT



GENERAL ARCHITECTURAL NOTES

 ALL INTERIOR CMU WALLS SHALL ARE TO REMAIN U.N.O.
 SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.





DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SH

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PREAPPROVED AND COORDINATED WITH THE OWNER'S

REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.

- C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS
- THROUGHOUT THE WORK.

 D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL
- TIMES.

 E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY
- DISCREPANCIES.

 F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE
- DRAWINGS.
 G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS
 AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR
 CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS
 CONTRACT.

 I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT
 OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH
- OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINIS AND/OR CONDITION.

 J. EXISTING MATERIALS SHALL NOT BE REUSED LINEESS NOTED.
- J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING
- FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

 M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE
- WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.

 N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
- FURTHER SEQUENCING AND SCOPE OF WORK.

 O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.

 P. NOT USED.
- Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

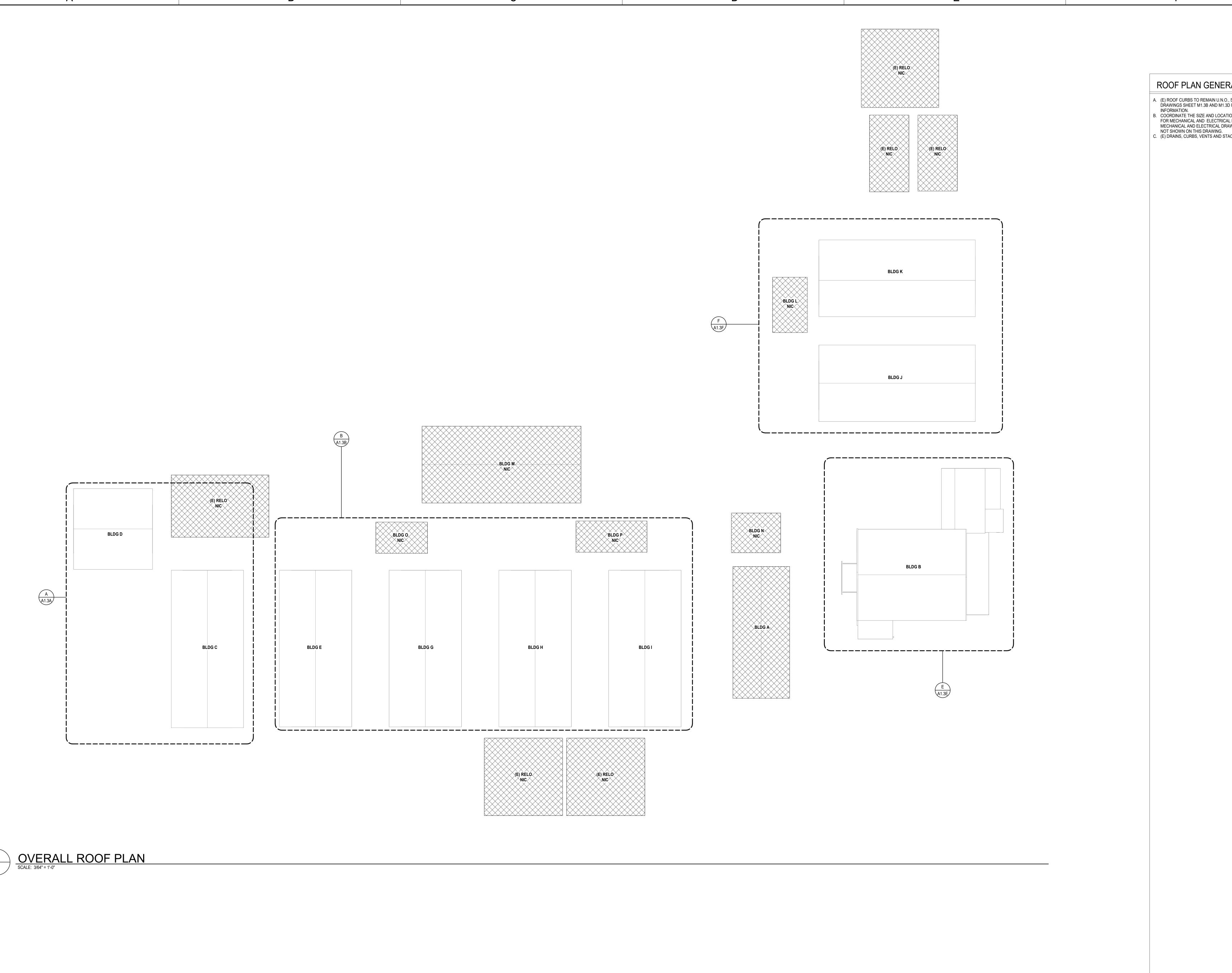
CONSTRUCTION

05/05/2022

REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA F - FLOOR PLAN

A1.1F



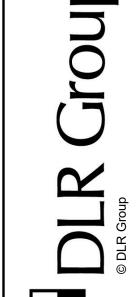
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

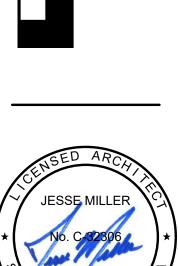
ROOF PLAN GENERAL NOTES

A. (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M1.3B AND M1.3D FOR ADDITIONAL DRAWINGS SHEET M1.3B AND M1.3D FOR ADDITIONAL INFORMATION.

B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.

C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.





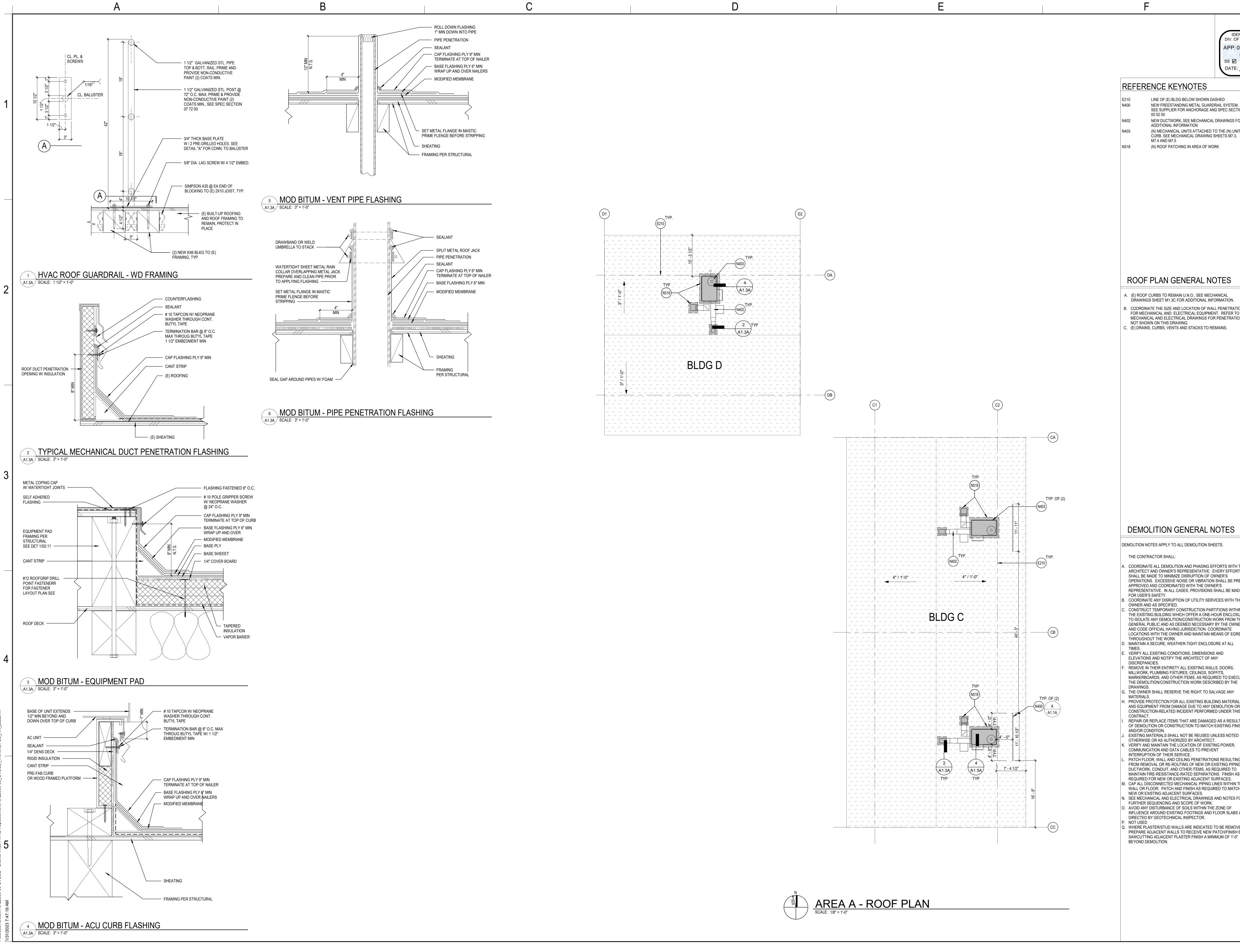




05/05/2022 REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 OVERALL ROOF PLAN

A1.3



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 02/16/2023

REFERENCE KEYNOTES

LINE OF (E) BLDG BELOW SHOWN DASHED NEW FREESTANDING METAL GUARDRAIL SYSTEM,

SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION NEW DUCTWORK, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

(N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5 (N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

A. (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.

C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.



DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.

CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS

. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY

REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE

G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR

CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT

OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH . EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. X. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER,

PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE

WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES. │N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK. O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.

Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0"

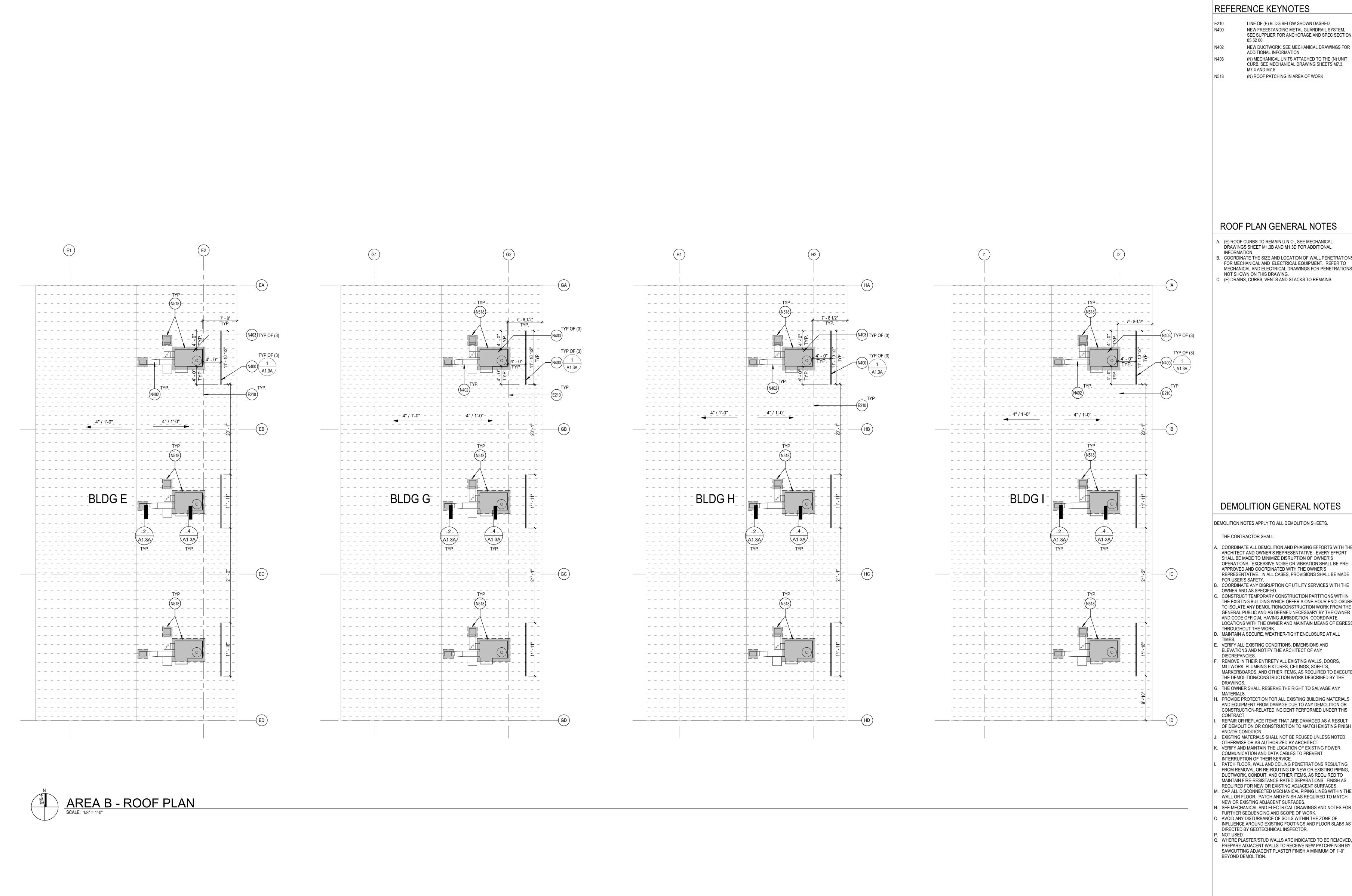
75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA A - ROOF PLAN

CONSTRUCTION

05/05/2022

REVISIONS

A1.3A



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE APP: 03-122234 INC: REVIEWED FOR SS ✓ FLS ✓ ACS □

REFERENCE KEYNOTES

LINE OF (E) BLDG BELOW SHOWN DASHED NEW FREESTANDING METAL GUARDRAIL SYSTEM.

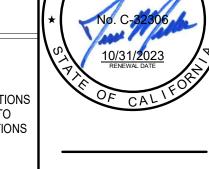
SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION NEW DUCTWORK, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

(N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5



ROOF PLAN GENERAL NOTES

A. (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M1.3B AND M1.3D FOR ADDITIONAL INFORMATION. 3. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING. C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.





DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY. B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN

THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK. D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL

E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS,

THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR

REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION. . EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER,

COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE

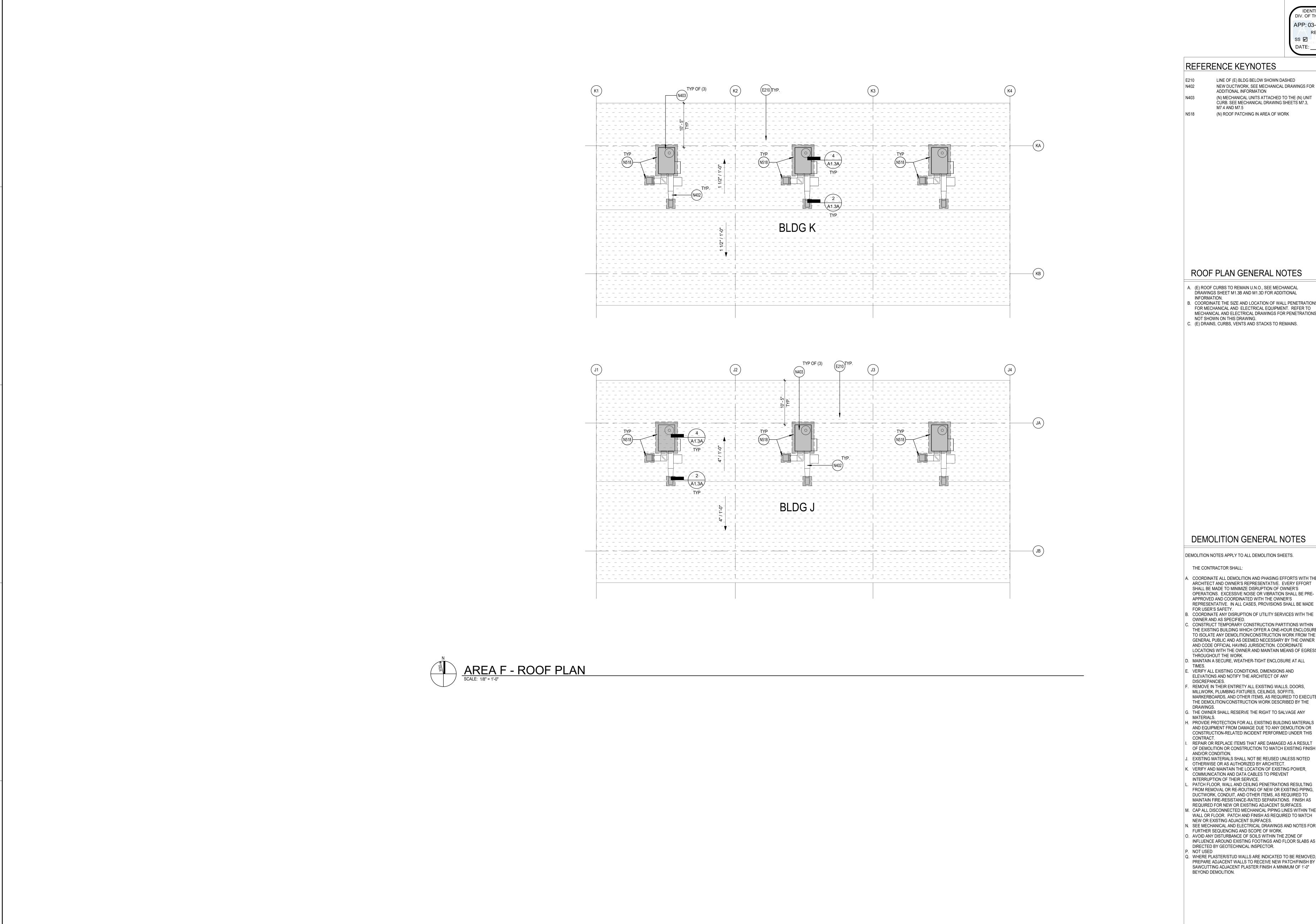
WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES. N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK. O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR. P. NOT USED

Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

CONSTRUCTION 05/05/2022 REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA B - ROOF PLAN

A1.3B



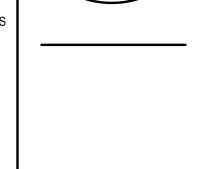
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

LINE OF (E) BLDG BELOW SHOWN DASHED NEW DUCTWORK, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3,



ROOF PLAN GENERAL NOTES

- A. (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M1.3B AND M1.3D FOR ADDITIONAL B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.





DEMOLITION GENERAL NOTES

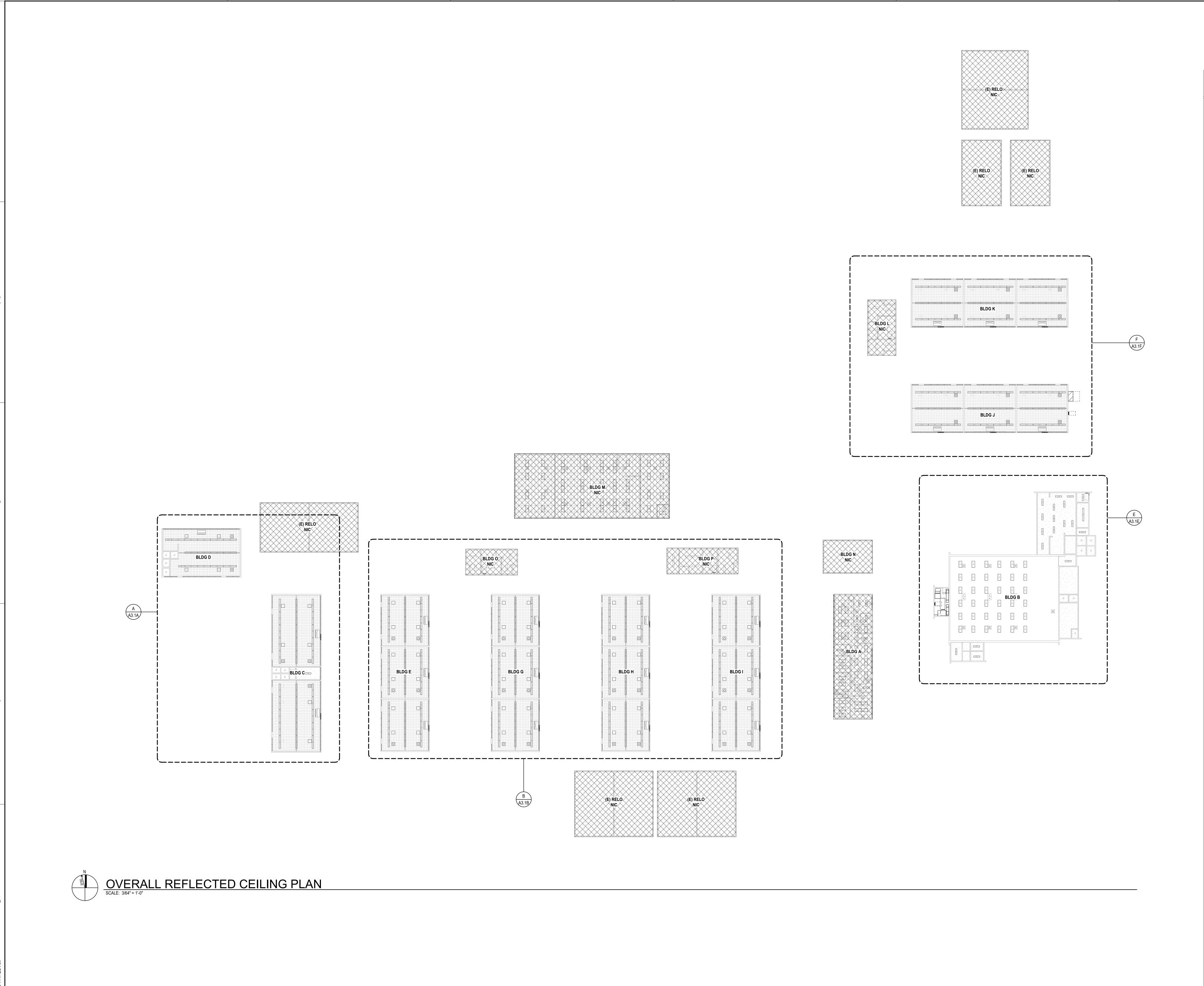
DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE
- C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS
- D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL
- ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE
- G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR
- CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT
- J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER,
- COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE. . PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO
- REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- │N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK. O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
- Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0"

CONSTRUCTION 05/05/2022 REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA F - ROOF PLAN

A1.3F



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:
REVIEWED FOR
SS FLS ACS
DATE: 02/16/2023

REFLECTED CEILING PLAN GENERAL NOTES

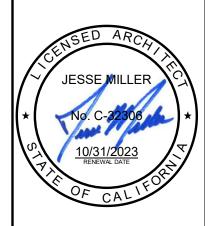
A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.

D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
 E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER

E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL
FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER
CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL
AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
a. FACE OF FINISHED WALL
b. FACE OF FINISHED BULKHEADS

c. CENTERLINE OF COLUMNS
d. CENTERLINE OF TEES
G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.







V ELEMENTARY SCHOO
ALLEY USD DISTRIC WIDE HVAC REPLACEMENT

COVID 19 - COVINA VALLEY USD DISTRIC WIDE

100% CONSTRUCTION DOCUMENTS 05/05/2022 REVISIONS

75-22605-00
DSA A#03-122234
DSA File #: 19-25
OVERALL
REFLECTED
CEILING PLAN

A3.1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR
SS FLS ACS
DATE: 02/16/2023

REFERENCE KEYNOTES

- REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS,
- CONDENSATE LINES, ETC. SEE MECHANICAL DRAWINGS

 D380 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
- MECHANICAL DUCT WORK INSTALLATION. REPLACE
 WITH (N) SIMILAR TO EXISTING

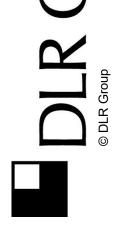
 05 (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE

 09 LINE OF (E) ROOF ABOVE SHOWN DASHED

 111 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E)
- LINE OF (E) ROOF ABOVE SHOWN DASHED

 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E)
 CEILING TILES, REFER TO MECHANICAL DRAWINGS

 REPLACE (E) INFILL PANEL AT CONDENSER UNIT
 PENETRATIONS WITH GLAZING TO MATCH
 ADJACENT. PAINT FRAME TO MATCH ADJACENT



REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
 B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH
- ROOM UNLESS NOTED OTHERWISE.
 C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED
 CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF
 THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.

 E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL
- FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.

 F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:

 a. FACE OF FINISHED WALL

 b. FACE OF FINISHED BULKHEADS
- c. CENTERLINE OF COLUMNS
 d. CENTERLINE OF TEES
 G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE
 EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS,
 DUCTWORK AND ELECTRICAL FIXTURES WITH EACH
 REPRESENTATIVE SUBCONTRACTOR.



DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PREAPPROVED AND COORDINATED WITH THE OWNER'S
- REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.

 B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
- C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE
- LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.

 D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL
- E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY
- DISCREPANCIES.

 F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE
- DRAWINGS.
 G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS
- AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED.
- OTHERWISE OR AS AUTHORIZED BY ARCHITECT.

 K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER,
 COMMUNICATION AND DATA CABLES TO PREVENT
 INTERRUPTION OF THEIR SERVICE.

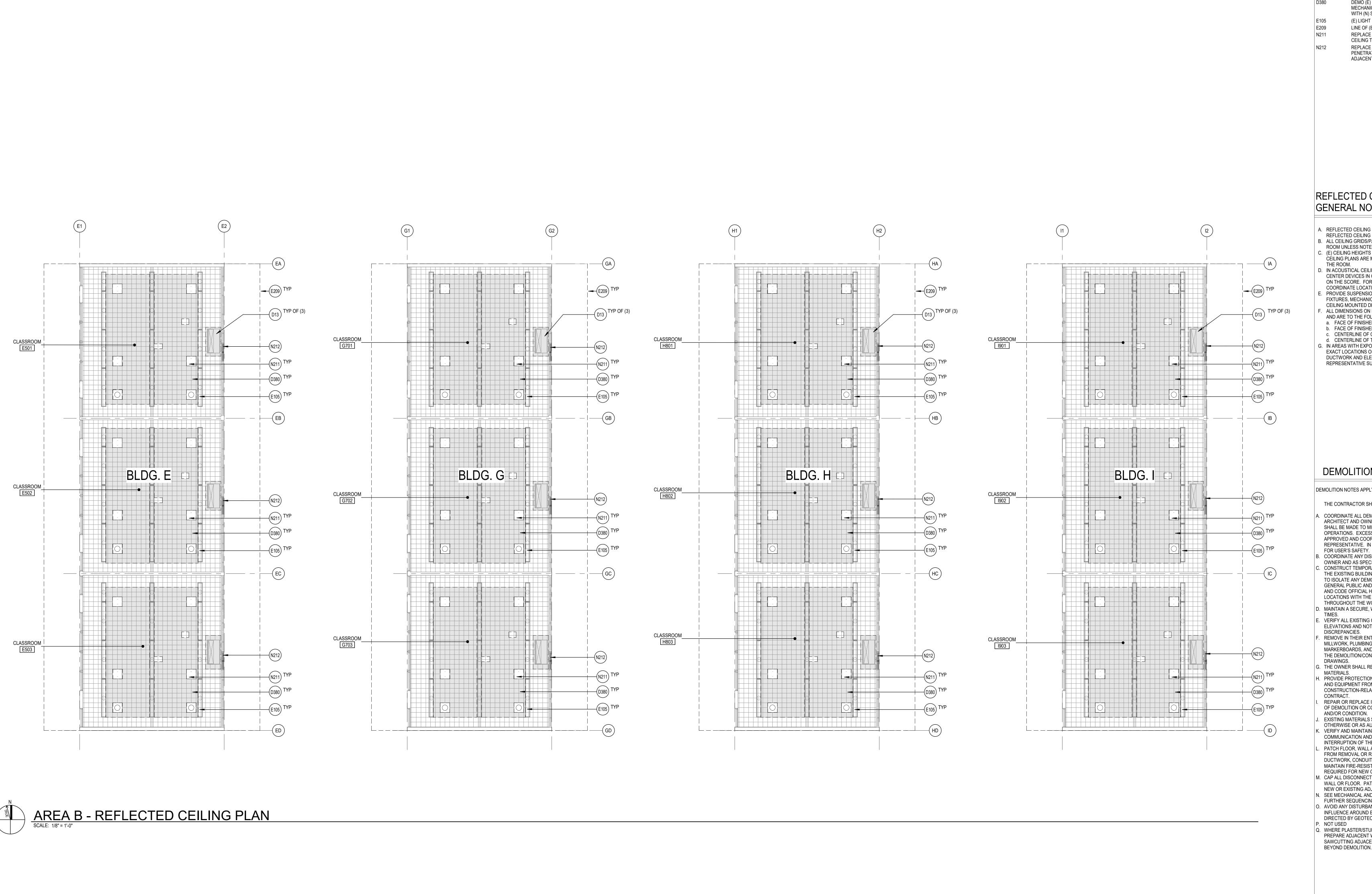
 L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING
- FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

 M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 P. NOT USED
- Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

100% CONSTRUCTION DOCUMENTS 05/05/2022 REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA A -REFLECTED CEILING PLAN

A3.1A



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆 DATE: 02/16/2023

REFERENCE KEYNOTES

- REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS,
- CONDENSATE LINES, ETC. SEE MECHANICAL DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
- (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE LINE OF (E) ROOF ABOVE SHOWN DASHED REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILÉS, REFER TO MECHANICAL DRAWINGS REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIÓNS WITH GLAZING TO MATCH

ADJACENT. PAINT FRAME TO MATCH ADJACENT



REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS. B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CÉILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM. D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER,
- CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT. . PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER
- CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS. F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE: a. FACE OF FINISHED WALL b. FACE OF FINISHED BULKHEADS c. CENTERLINE OF COLUMNS
- d. CENTERLINE OF TEES
 G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.



DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE
- B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.

 CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE
- LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK. D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL
- E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY
- DISCREPANCIES. F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE
- DRAWINGS. G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY I. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- . EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK. O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR. P. NOT USED
- Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED. PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

CONSTRUCTION DOCUMENTS 05/05/2022 REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA B -REFLECTED **CEILING PLAN**

A3.1B

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR

SS FLS ACS
DATE: 02/16/2023

REFERENCE KEYNOTES

N510 NEW MECH. EQUIPMENT. SEE MECHANICAL DWGS.





- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
 B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED
 CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF
 THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT
- COORDINATE LOCATION WITH THE ARCHITECT.

 E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:

 a. FACE OF FINISHED WALL

 b. FACE OF FINISHED BULKHEADS

 c. CENTERLINE OF COLUMNS

 d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.



DEMOLITION GENERAL NOTES

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- FOR USER'S SAFETY.

 B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.

 C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE
- TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES
- E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY
- DISCREPANCIES.

 F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE
- G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
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 I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH

CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS

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 J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.

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- K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER,
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 O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 P. NOT USED
- Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

100%
CONSTRUCTION
DOCUMENTS
05/05/2022
REVISIONS

75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA E -REFLECTED CEILING PLAN

A3.1E

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 02/16/2023

REFERENCE KEYNOTES

- REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS,
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- WITH (N) SIMILAR TO EXISTING (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE LINE OF (E) ROOF ABOVE SHOWN DASHED
- REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TÌLÉS, REFER TO MECHANICAL DRAWINGS REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH

ADJACENT. PAINT FRAME TO MATCH ADJACENT



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DRAWINGS.

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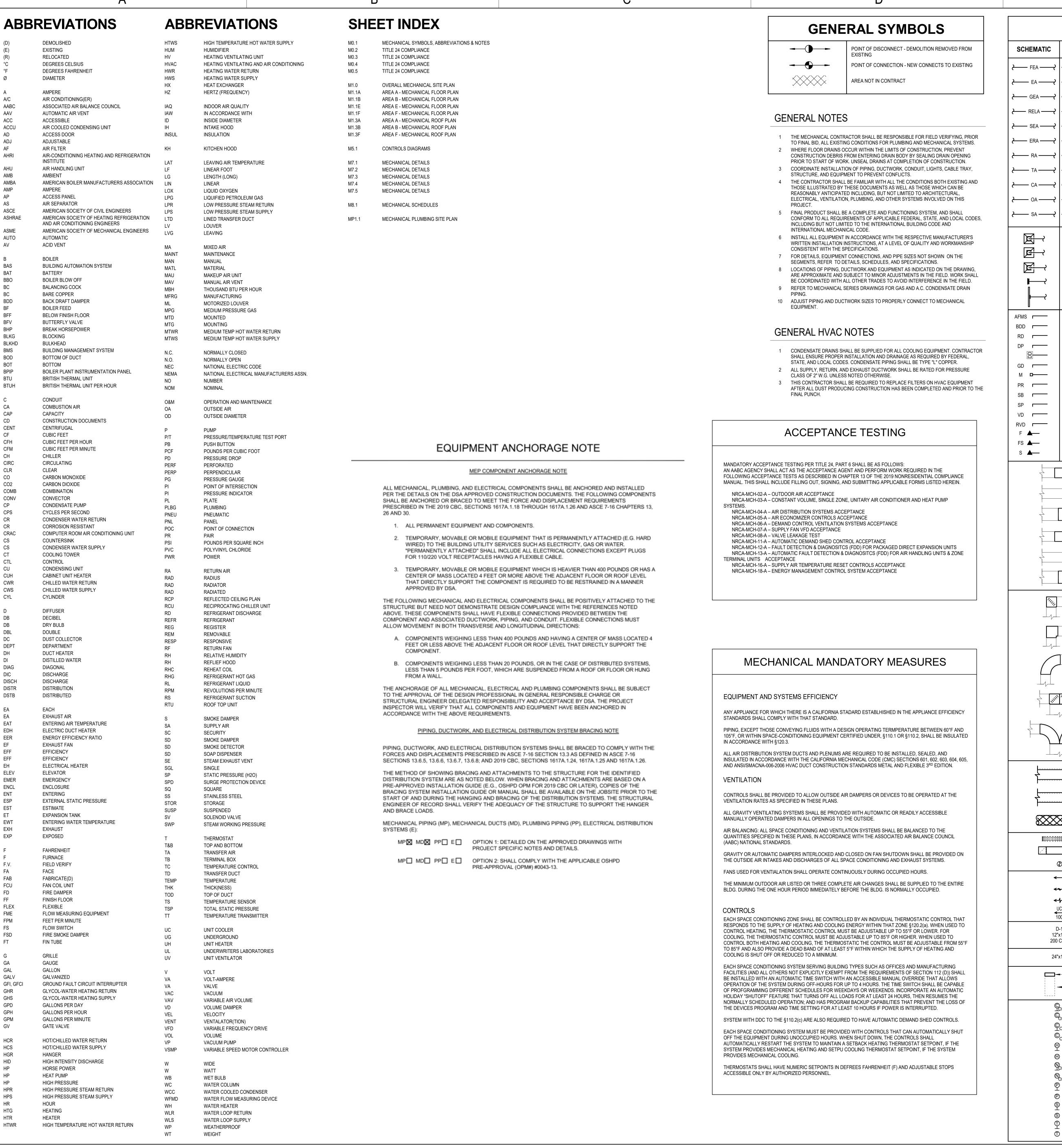
REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH

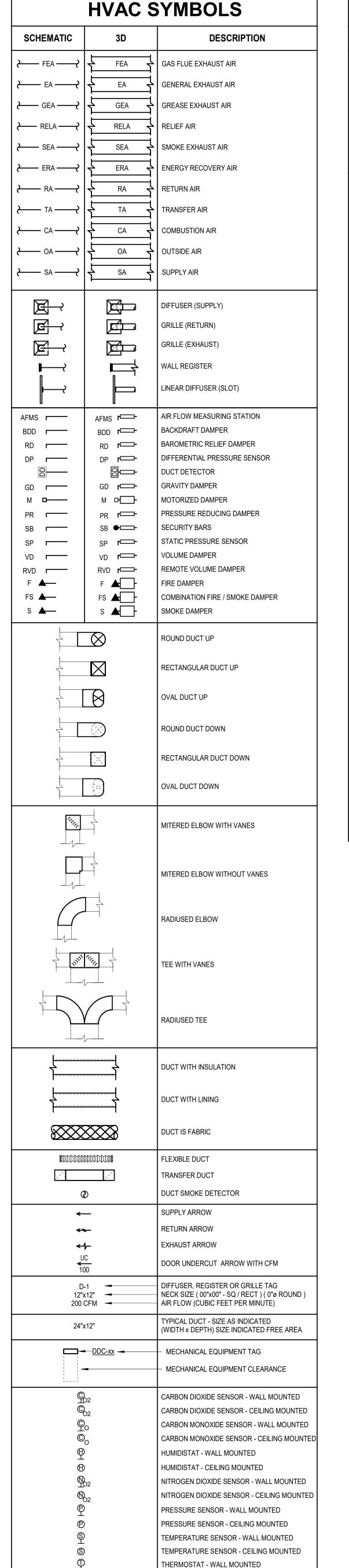
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- P. NOT USED Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED. PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING CONSTRUCTION DOCUMENTS 05/05/2022 REVISIONS

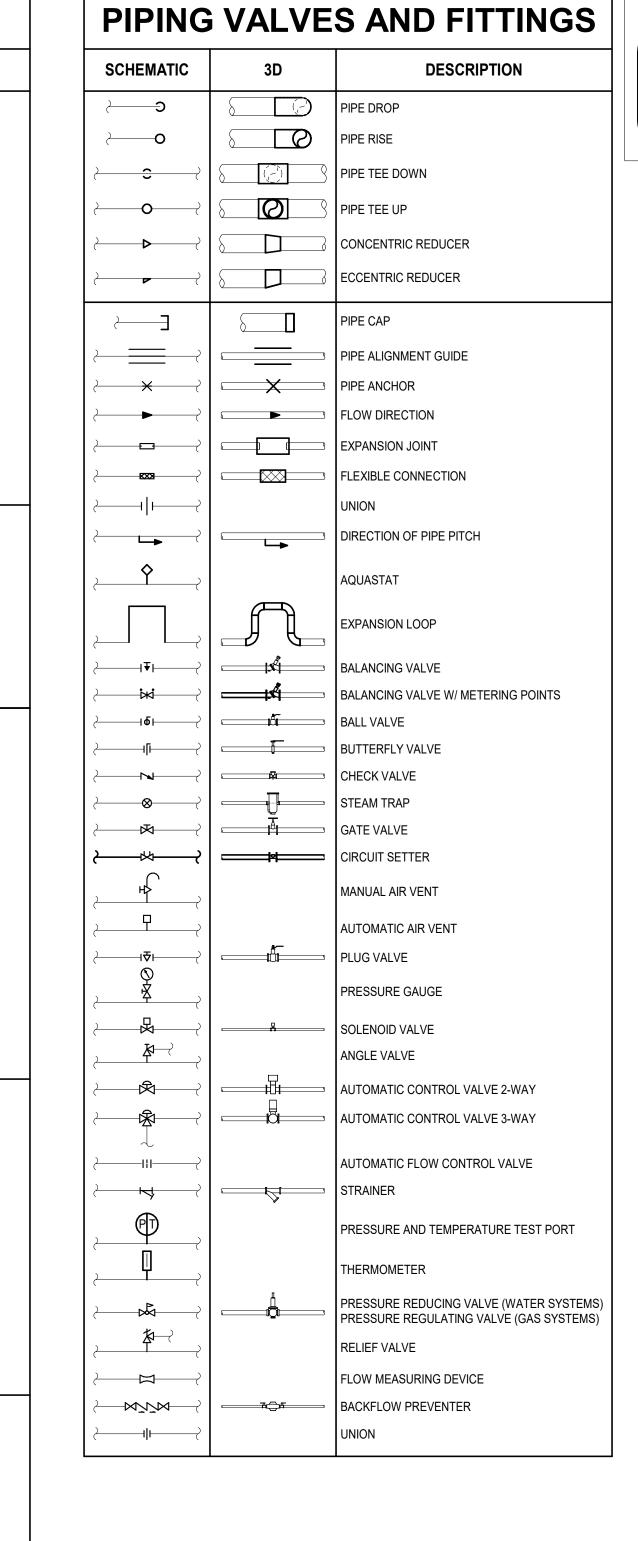
> 75-22605-00 DSA A#03-122234 DSA File #: 19-25 AREA F -REFLECTED **CEILING PLAN**

A3.1F

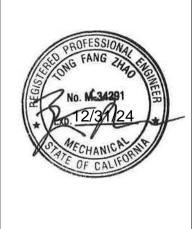




THERMOSTAT - CEILING MOUNTED



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗌 DATE: 02/16/2023





DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00

MECHANICAL SYMBOLS, ABBREVIATIONS &

* NOTE *

APPLICABLE TO ALL OTHER SHEETS IN

THE SYMBOLS AND ABBREVIATIONS

SHOWN ON THIS SHEET MAY OR MAY

NOT BE APPLICABLE IN THIS SET OF

DRAWINGS.

ALL NOTES ON THIS SHEET ARE

NRCC-MCH-E (Page 3 of 36)

75-22605-00

TITLE 24 COMPLIANCE

M0.2

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations. Project Name: CVUSD Workman Report Page: (Page 1 of 36) 1941 E Workman Ave Date Prepared: Project Address: 5/4/2022 A. GENERAL INFORMATION 04 Total Conditioned Floor Area 01 Project Location (city) West Covina 14580 05 Total Unconditioned Floor Area 02 Climate Zone 06 # of Stories (Habitable Above Grade) 03 Occupancy Types Within Project:

☐ Non-refrigerated Warehouse (S)

☐ Healthcare Facility (I)

☐ High-Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E) Other (write in) See Table J B. PROJECT SCOPE This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or §141.0(b)2 for alterations. 02 Wet System Components Dry System Components Air System(s) Heating Air System ☐ Water Economizer Air Economizer Cooling Air System Pumps ☐ Electric Resistance Heat ☐ System Piping Mechanical Controls Mechanical Controls (existing to remain, altered ☐ Cooling Towers Ductwork (existing to remain, altered or new) or new) ☐ Chillers ☐ Boilers ☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: CVUSD Workman Report Page: (Page 4 of 36) 1941 E Workman Ave Date Prepared: Project Address:

Schema Version: rev 20200601

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) 06 07 08 09 10 11 RTU-H1 Air-cooled, pkg (3 phase) 31.92 26.15 69.42 Unitary Heat Pumps Controls NA: Load RTU-H2 31.92 26.15 67.51 Unitary Heat Pumps Air-cooled, pkg (3 phase) Controls 31.92 26.15 69.42 RTU-H3 34.1 Air-cooled, pkg (3 phase) Unitary Heat Pumps Controls NA: Load RTU-I1 31.92 26.15 Unitary Heat Pumps Air-cooled, pkg (3 phase) 69.42 Controls NA: Load RTU-I2 31.92 26.15 67.51 84.18 Air-cooled, pkg (3 phase) Unitary Heat Pumps Controls NA: Load RTU-I3 26.15 69.42 Air-cooled, pkg (3 phase) Unitary Heat Pumps

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. ³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

01	02	03	04	05	06	07	08	09
			Heati	ng Mode			Cooling Mode	
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Cooling Mode Minimum Efficiency	Design Efficiend
RTU-C1	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-C2	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-D1	<65,000		HSPF	7.7	13	SEER	13.0	14.3

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41 Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E CVUSD Workman Report Page: (Page 7 of 36) Project Name: Project Address: 1941 E Workman Ave Date Prepared:

				,						
H. FAN SYSTE	MS & AIR ECONO	MIZERS								
System Name:	RTU-E1	Econor	nizer:1	NA: <=54 kBtu/h cooling	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on	Qty	(CFM)	T HP II nit ² I Design HP I		Device	Design Airflow through Device (CFM)		
SF	Supply		1	1200	ВНР		ВНР	0.91	NA	NA
Total Syst	em Design Supply A	Airflow (CF	M):	1200		ystem (B)HP:	-	0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-E2	Econor	nizer:1	NA: <=54 kBtu/h cooling	Controls:		d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume	
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on	Qty	(CFM)	All llow	HP	Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200			ВНР	0.91	NA	NA
Total Syst	em Design Supply A	Airflow (CF	M):	1200	Total S	ystem (B)HP:	_	0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-E3	Econor	nizer:1	NA: <=54 kBtu/h cooling	Econon Contre		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on	Qty	(CFM)	HP Unit ²		Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200			ВНР	0.91	NA	NA
Total Syst	em Design Supply A	Airflow (CF	M):	1200	Total S	ystem (B)HP:	_	0.91	Maximum System Fan Power (B)HP:	

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41 Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: CVUSD Workman Report Page: (Page 2 of 36) 1941 E Workman Ave Date Prepared: Project Address:

C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES" NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance. Summary Pumps Cooling Towers §110.1, Controls §120.3, §140.4(k) §140.4(c), §110.2(e)2 §110.2, §140.4(d) §140.4(I) §140.4(e) §140.4 (See Table F) (See Table K) Mandatory Measures Compliance (See Table Q for Details

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: CVUSD Workman Report Page: (Page 5 of 36) 1941 E Workman Ave Date Prepared: Project Address:

ry System Equipment	Efficiency (other than Package T	erminal Air Conditi	oners (PTAC) and	Package Terminal	Heat Pumps (PTHP	P))		
01	02	03	04	05	06	07	08	09
			Heati	ng Mode			Cooling Mode	
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-E1	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-E2	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-E3	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-G1	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-G2	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-G3	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-H1	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-H2	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-H3	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-I1	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-I2	<65,000		HSPF	7.7	13	SEER	13.0	14.3
RTU-I3	<65,000		HSPF	7.7	13	SEER	13.0	14.3

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STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E CVUSD Workman Report Page: (Page 8 of 36) Project Name: 1941 E Workman Ave Date Prepared: 5/4/2022 Project Address:

System Name:	RTU-G1	Econon	nizer:1	NA: <=54 kBtu/h cooling	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-
Item Tag	Fan Functio	n	Qty	(CFM)	All llow	HP	Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		E	ВНР	0.91	NA	NA
Total Syste	Total System Design Supply Airflow (CFM):			1200 Total S		System Design (B)HP:		0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-G2	Econon	nizer:1	NA: <=54 kBtu/h cooling	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
an Name or		Maximum Design Supply	w .			Fan Power Pressure Drop A	Adjustment - Table 140.4			
Item Tag	Fan Functio	n	Qty	(CFM)	All llow	HP	Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		ВНР		0.91	NA	NA
Total Syste	m Design Supply A	irflow (CF	M):	1200	Total S	otal System Design (B)HP:		0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-G3	Econon	nizer:1	NA: <=54 kBtu/h cooling	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4
Item Tag	Fan Functio	n	Qty	(CFM)	HP Unit ²		Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200	1200		ЗНР	0.91	NA	NA
Total System Design Supply Airflow (CFM):			1 1/00 1		al System Design (B)HP:		0.91	Maximum System Fan Power (B)HP:		

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Maximum Design Supply Airflow Fan Function Design HP Item Tag Supply 0.91 Total System Design Total System Design Supply Airflow (CFM): 1200 0.91 Designed per §140.4(e) a NA: <=54 kBtu/h cooling Controls: 06 Maximum Design Supply Airflow Fan Function Design HP Item Tag SF Supply 1200 0.91 Total System Design Total System Design Supply Airflow (CFM): 1200 Designed per §140.4(e) and NA: <=54 kBtu/h cooling Name: Controls: 01 06 Maximum Design Supply Airflow Fan Function Design HP Item Tag SF Supply 1200 BHP 0.91 Total System Design Total System Design Supply Airflow (CFM): (B)HP: Power (B)HP: Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page: Project Name: 1941 E Workman Ave Date Prepared: Project Address: H. FAN SYSTEMS & AIR ECONOMIZERS Economizer Designed per §140.4(e) and NA: <=54 kBtu/h cooling Name: Controls: 01 06 Maximum Design Supply Airflow Fan Name o Fan Function Design HP Item Tag Supply 1200 BHP Total System Design Total System Design Supply Airflow (CFM): Designed per §140.4(e) a RTU-H2 NA: <=54 kBtu/h cooling Controls: 01 06 Maximum Design Supply Airflow Fan Name or Design HP Item Tag SF Supply 1200 BHP 0.91 Total System Design Total System Design Supply Airflow (CFM): 0.91 Economizer:1 NA: <=54 kBtu/h cooling Maximum Design Supply Airflow Fan Name o Fan Function Design HP Item Tag

Registration Number:

Total System Design Supply Airflow (CFM):

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☐ Retail (M)

☐ School (E)

☐ Office (B)

☐ Hotel/ Motel Guest Rooms (R-1)

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G. PUMPS

Registration Number:

Registration Number:

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Compliance Results COMPLIES

STATE OF CALIFORNIA Mechanical Systems

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page: Project Name: 1941 E Workman Ave Date Prepared: Project Address: F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

IIIIIAC SISIEN	HOOMINIANT (DINT & WET	3131211131								
1	to demonstrate compliance <u>140.4(k)</u> or <u>§141.0(b)2</u> for a	for mechanical equipment with mandato Iterations.	ry requirements j	found in §11	0.1 and §1.	<u>10.2(a)</u> and	l prescriptive	e requireme	nts found in	§140.4(a),
Dry System Equip	pment Sizing (includes air co	nditioners, condensers, heat pumps, VR	F, furnaces and u	ınit heaters)						
01	02	03	04	05	06	07	08	09	10	11
					Equipme		er Mechanic §140.4 (a&b		(kBtu/h)	
			Smallest Size	Hea	ating Outpu	t ^{2,3}	Cooling (Output ^{2,3}	Load Calc	ulations ^{3,4}
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Available ¹ §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-C1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	85.43	113.92
RTU-C2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	85.43	113.92
RTU-D1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	33.32	26.15	90.48	106
RTU-E1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	69.42	84.98
RTU-E2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	67.51	84.18
RTU-E3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	69.42	84.97
RTU-G1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	69.42	84.98
RTU-G2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	20.14	34.1	0	31.92	26.15	67.51	84.18

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Air-cooled, pkg (3 phase)

STATE OF CALIFORNIA Mechanical Systems

RTU-G3

Unitary Heat Pumps

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: CVUSD Workman Report Page: (Page 6 of 36) 1941 E Workman Ave Date Prepared: Project Address:

H. FAN SYSTEMS & AIR ECONOMIZERS This table is used to demonstrate compliance with prescriptive requirements found in $\underline{\$140.4(c)}$, $\underline{\$140.4(e)}$ and $\underline{\$140.4(m)}$ for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H. **Economizer** Designed per §140.4(e) and NA: <=54 kBtu/h cooling System Fan Type: Constant Volume Controls: 06 Fan Power Pressure Drop Adjustment - Table 140.4-B Fan Name o Design Airflow through Device Device (CFM) Maximum System Fan Power (B)HP: System Fan Type: Constant Volume Fan Power Pressure Drop Adjustment - Table 140.4-B Fan Name o Design Airflow through Device (CFM) Maximum System Fan Power (B)HP: System Fan Type: Constant Volume 07 Fan Power Pressure Drop Adjustment - Table 140.4-B Fan Name o Design Airflow through Device (CFM) Maximum System Fan

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CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 9 of 36)

System Fan Type: Constant Volume Fan Power Pressure Drop Adjustment - Table 140.4-B Design Airflow through Device Device (CFM) Maximum System Fan Power (B)HP: System Fan Type: Constant Volume Fan Power Pressure Drop Adjustment - Table 140.4-B Design Airflow through Device (CFM) Maximum System Fan Power (B)HP: System Fan Type: Constant Volume Fan Power Pressure Drop Adjustment - Table 140.4-B Design Airflow through Device Device (CFM) Supply 1200 0.91

Total System Design

(B)HP:

1200

Registration Date/Time:

0.91

Maximum System Fan

Power (B)HP:

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This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered

Shut-Off

Controls

§120.2(e)

Auto Timer

Auto Timer

Auto Timer

Switch

Auto Timer

Auto Timer

Switch

Auto Timer

Switch

Auto Timer

Switch

Auto Timer

Auto Timer

Switch

Switch

Auto Timer

Switch

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Switch

Controls

4 Hour Time

4 Hour Time

§110.12 and §120.2(b)

EMCS

75-22605-00

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE (Page 10 of 36) Project Name: CVUSD Workman Report Page: 1941 E Workman Ave Date Prepared: 5/4/2022 Project Address:

H. FAN SYSTEMS & AIR ECONOMIZERS Economizer Designed per §140.4(e) and NA: <=54 kBtu/h cooling System Fan Type: Constant Volume 05 an Power Pressure Drop Adjustment - Table 140.4-E Fan Name or Maximum Design Supply Airflow Fan Function HP Unit² Design HP Design Airflow through Item Tag (CFM) Device (CFM) Supply 1200 BHP 0.91 Maximum System Fan Total System Design Total System Design Supply Airflow (CFM): 1200 0.91 Power (B)HP: Designed per §140.4(e) and System Fan Type: Constant Volume Controls: an Power Pressure Drop Adjustment - Table 140.4-B Maximum Design Supply Airflow Fan Name or Fan Function HP Unit² Design HP Design Airflow through Item Tag (CFM) Device (CFM) BHP 0.91 Supply 1200 Total System Design 0.91 Total System Design Supply Airflow (CFM): (B)HP: Power (B)HP: System Fan Type: NA: <=54 kBtu/h cooling Constant Volume Name: Controls: an Power Pressure Drop Adjustment - Table 140.4-B Maximum Design Supply Airflow Fan Name or Fan Function HP Unit² Design HP Design Airflow through Item Tag (CFM) Device (CFM) Supply BHP 0.91 Total System Design Maximum System Fan Total System Design Supply Airflow (CFM): Power (B)HP:

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450

450

Conditioned # of Shower Floor Area heads/ toilets # of people⁵ Required Min OA CFM Required Min CFM CFM

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System Design

Transfer Air CFM

System Design

Transfer Air CFM

Exh. Vent per §120.1(c)4

Exh. Vent per §120.1(c)4

Exh. Vent per §120.1(c)4

of people⁵ Required Min OA CFM Required Min CFM CFM CFM

450 18 Ventilation for this System Complies?

Min OA CFM Required Provided per Design CFM

1941 E Workman Ave Date Prepared:

of

people⁵

10 | 11 | 12 | 13 | 14 |

¹ FOOTNOTES: Computer room economizers must meet requirements of $\underline{§140.9(a)}$ and will be documented on the NRCC-PRC-E document.

1285

Mechanical Ventilation Required per §120.1(c)3

(ft²)

1285

Mechanical Ventilation Required per §120.1(c)3

895

Mechanical Ventilation Required per §120.1(c)3

Conditioned # of Shower # of

Floor Area heads/ (ft²) toilets

05

toilets

System Design OA CFM

Floor Area heads/

System Design OA CFM

Airflow¹

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STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Classroom

system Name

Space Name

ot item Tag

Classroom

ystem Name

08

Space Name

ot item Tag

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Classroom

Space Name

ot item Tag

Mechanical Systems

CERTIFICATE OF COMPLIANCE

J. VENTILATION AND INDOOR AIR QUALITY

Lecture/ postsecondary classroom

Occupancy Type⁴

Mechanical Systems

CERTIFICATE OF COMPLIANCE

I. VENTILATION AND INDOOR AIR QUALITY

17 Total System Required Min OA CFM

Lecture/ postsecondary classroom

RTU-C2

Occupancy Type⁴

Lecture/ postsecondary classroom

RTU-D1

Occupancy Type⁴

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17 Total System Required Min OA CFM

² The unit used for HP must be consistent for all fans within a system.

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DCV

Occ Sensor

Occ Sensor

Air Filtration per §120.1(c) and §141.0(b)

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3,

§120.1(d)5, and §120.1(e)3 ⁶

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3,

§120.1(d)5, and §120.1(e)3 ⁶

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DCV

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Provided per

§120.1(d)4

NA: Not required

5/4/202

Ventilation for this System Complies?

CALIFORNIA ENERGY COMMISSION

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Provided per

§120.1(d)4

NA: Not required

space type

Yes

Provided per §120.1(d)4

NA: Not required

space type

Yes

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Mechanical Systems

CERTIFICATE OF COMPLIANCE

I. SYSTEM CONTROLS

space conditioning systems

System Name

RTU-C1

RTU-C2

RTU-D1

RTU-E1

RTU-E2

RTU-E3

RTU-G1

RTU-G2

RTU-G3

RTU-H1

RTU-H2

RTU-H3

Registration Number:

02 03

Zoning Being Served

Single zone <= 25,000 ft²

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Floor Area

(ft²)

§110.2(b) & (c) 1 ,

Setback

.20.2(a)or §141.0(b

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J. VENTILATIO	ON AND INDOOR AIR QUALITY									
Classroom	Lecture/ postsecondary classroom	1270		30	450	0	0	DCV	Provided pe §120.1(d)4	
Classicolli	Lecture/ postsecondary classicom	12/0		30	430			Occ Sensor	NA: Not requi space type	
17	Total System Required Min OA CFM				450	18	Ventilation for this S	ystem Complies? Yes		
	04		05				06	0	7	
		System Desi	on OA CEM		Contant	Danier		Air Filtration per §120	.1(c) and §141.0	
System Name	RTU-E1	Airfl		450		Design Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15	1	.6	
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>	3 ³		Exh.	Vent per <u>§120.1(c)4</u>			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120</u> <u>§120.1(d)5</u> , and <u>§120.1(e)3</u>		
Classroom	Lecture/ postsecondary classroom	895		30	450	0	0	DCV	Provided pe §120.1(d)4	
Classicolli	Lecture/ postsecondary classicom	833		30	430		Ů	Occ Sensor	NA: Not requ space type	
17	Total System Required Min OA CFM				450	18	Ventilation for this S	System Complies?	Yes	
	04		05				06	0	7	
		System Desi	gn OA CEM		System	Dosign		Air Filtration per §120	.1(c) and §141.0	
System Name	RTU-E2	Airfle	_	450		Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15	1	.6	
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>	3 ³		Exh.	Vent per §120.1(c)4			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Cont §120.1(d)5, an	rols per <u>§120.1(c</u> nd <u>§120.1(e)3</u> ⁶	

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:		1941 E V	Vorkman Ave	Date Prepa	ared:			5/4/2022	
								_	
ON AND INDOOR AIR QUALITY									
Lecture / portsecondary classroom	905		30	450	0	0	DCV	Provided per §120.1(d)4	
Lecture/ postsecondary classroom	095		30	450	U	U	Occ Sensor	NA: Not required space type	
Total System Required Min OA CFM				450	18	Ventilation for this S	system Complies?	Yes	
04	05					06	0.	7	
	System Desi	an OA CEM		Custom	Dasian		Air Filtration per §120.	1(c) and §141.0(b)2 2	
RTU-H1		_	450			0	Provided per <u>§1.</u> Hotel/N		
09	10	11	12	13	14	15	1	6	
Mechanical Ventilat	ion Required	per <u>§120.1(c)</u>	3 ³		Exh. \	Vent per <u>§120.1(c)4</u>			
Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> ⁶	
Lecture / nostsecondary classroom	895		30	450	0	0	DCV	Provided per §120.1(d)4	
Lecture/ postsecondary classroom	655		30	450	O	Ü	Occ Sensor	NA: Not required space type	
Total System Required Min OA CFM				450	18	Ventilation for this S	system Complies?	Yes	
04		05				06	0	7	
	System Desi	an OV CEM		Systom	Docian		Air Filtration per §120.	1(c) and §141.0(b)2 2	
RTU-H2	-	-	450			0	Provided per <u>§1</u> Hotel/N		
09	10	11	12	13	14	15	1	6	
Mechanical Ventilat	ion Required	per <u>§120.1(c)</u>	3 ³		Exh. \	Vent per <u>§120.1(c)4</u>			
Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Control §120.1(d)5, an		
	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom Total System Required Min OA CFM 04 RTU-H1 09 Mechanical Ventilat Occupancy Type ⁴ Lecture/ postsecondary classroom Total System Required Min OA CFM 04 RTU-H2 09 Mechanical Ventilat	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom 895 Total System Required Min OA CFM 04 RTU-H1 System Desir Airflot 09 10 Mechanical Ventilation Required Floor Area (ft²) Lecture/ postsecondary classroom 895 Total System Required Min OA CFM 04 RTU-H2 System Desir Airflot 09 10 Mechanical Ventilation Required Airflot Oge 10 Mechanical Ventilation Required Conditioned Floor Area (ft²)	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom 895 Total System Required Min OA CFM 04 05 RTU-H1 Mechanical Ventilation Required per \$120.1(c) Conditioned Floor Area (ft²) Cecture/ postsecondary classroom 895 Total System Required Min OA CFM 04 05 System Design OA CFM heads/ toilets Total System Required Min OA CFM 04 OS System Design OA CFM Airflow¹ Total System Required Min OA CFM 04 OS Conditioned Airflow¹ OP Mechanical Ventilation Required per \$120.1(c) Conditioned Floor Area (ft²) Conditioned Floor Area (ft²) Conditioned Floor Area (ft²) Conditioned Floor Area (ft²)	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom 895 30 Total System Required Min OA CFM 04 05 RTU-H1 System Design OA CFM Airflow¹ 450 09 10 11 12 Mechanical Ventilation Required per §120.1(c)3 ³ Conditioned Floor Area (ft²) ftoilets # of people5 Lecture/ postsecondary classroom 895 30 Total System Required Min OA CFM 04 05 System Design OA CFM Airflow¹ 450 Total System Required Min OA CFM 09 10 11 12 Mechanical Ventilation Required per §120.1(c)3 ³ Conditioned # of Shower heads/ Airflow¹ 450 Conditioned # of Shower heads/ Propole5 foor Area for Shower heads/ Propole5 foor Area foor Area heads/ Propole5 foor Area foor Area heads/ Propole5 foor Area foor Area for Shower heads/ Propole5 foor Area foor Area foor Area for Shower heads/ Propole5 foor Area foor Area for Shower heads/ Propole5 foor Area foor Area foor Area foor Area for Shower heads/ Propole5 foor Area foor	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom 895 30 450 Total System Required Min OA CFM 05 RTU-H1 System Design OA CFM Airflow¹ 450 System Transfer 09 10 11 12 13 Mechanical Ventilation Required per \$120.1(c)3 ³ Occupancy Type⁴ Conditioned # of Shower heads/ toilets 950 Lecture/ postsecondary classroom 895 30 450 Total System Required Min OA CFM 05 RTU-H2 System Design OA CFM Airflow¹ 450 System Transfer 09 10 11 12 13 Mechanical Ventilation Required per \$120.1(c)3 ³ Conditioned # of Shower fransfer 09 10 11 12 13 Mechanical Ventilation Required per \$120.1(c)3 ³ Conditioned from the state of	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom 895 30 450 0 Total System Required Min OA CFM 05 RTU-H1 System Design OA CFM Airflow¹ 450 System Design Transfer Air CFM O9 10 11 12 13 14 Mechanical Ventilation Required per \$120.1(c)3 ³ Exh. V Conditioned (ft²) 450 System Design Transfer Air CFM Nin OA CFM Min OA CFM Lecture/ postsecondary classroom 895 30 450 0 Total System Required Min OA CFM O4 05 RTU-H2 System Design OA CFM Airflow¹ 450 System Design Transfer Air CFM O9 10 11 12 13 14 Mechanical Ventilation Required per \$120.1(c)3 ³ Exh. V O9 10 11 12 13 14 Mechanical Ventilation Required per \$120.1(c)3 ³ Exh. V Occupancy Type⁴ Conditioned Floor Area Floo	DN AND INDOOR AIR QUALITY	DN AND INDOOR AIR QUALITY Lecture/ postsecondary classroom	

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CALIFORNIA ENERGY COMMISSION

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Window Interlocks per

§140.4(n)

Provided

Registration Provider: Energysoft

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Temp. Reset

§140.4(f)

Included

iviecijanicai systems			
NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	CVUSD Workman	Report Page:	(Page 12 of 36)
Project Address:	1941 E Workman Ave	Date Prepared:	5/4/2022

SYSTEM CONTROLS								
RTU-I1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats. *Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d);

EXCEPTION 1 to		, a a a a a a a a a a a a a a a a.	zorom empram		p.1.0.1.0.0 10 0.1		,	or romp noods and open	recause zones compilant with 3140.4(a),			
J. VENTILATIO	N AND IND	OOR AIR QUALITY										
occupancies. Fo	r alterations,		being altered	within the so	ope of the p	permit app	lication nee	ed to be documented in th	igh-rise residential and hotel/motel is table. In lieu of this table, the required			
01		Check the box if the pro	ject is showing	g ventilation (calculations	on the pla	ns, or attac	thing the calculations inst	ead of completing this table.			
02	\boxtimes	Check this box if the pro	ject included	Nonresidenti	al or Hotel/	Motel spac	es					
02		Check this box if the pro	ject included	new or altere	d high-rise	residential	dwelling u	nits.				
03	O3 Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.											
Nonresidential	and Hotel/ N	Motel Ventilation System	s									
	04			05	5			06	07			
			System Desi	an OA CEM		System	Design		Air Filtration per §120.1(c) and §141.0(l			
System Name		RTU-C1	Airfl	_	450	'	Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))			
08		09	10	11	12	13	14	15	16			
		Mechanical Ventilat	ion Required	per <u>§120.1(c</u>	<u>3</u> 3		Exh.	Vent per <u>§120.1(c)4</u>				
Space Name ot item Tag	Oc	cupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)</u> <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶			

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STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: CVUSD Workman Report Page: (Page 15 of 36) 1941 E Workman Ave Date Prepared: Project Address: 5/4/2022

J. VENTILATIO	ON AND INDOOR AIR QUALITY								
Classroom	Lecture/ postsecondary classroom	895		30	450	0	0	DCV	Provided pe §120.1(d)4
Classroom	Lecture/ postsecondary classroom	095		30	450		0	Occ Sensor	NA: Not requi space type
17	Total System Required Min OA CFM				450	18	Ventilation for this :	System Complies?	Yes
	04		05			06		C	7
		System Desi	gn ΩΔ CEM		Systom	Design		Air Filtration per §120	.1(c) and §141.0(
System Name	RTU-E3	Airfl		450		Air CFM	0	Provided per §120.1(c) (NR an Hotel/Motel))	
08	09	10	11	12	13	14	15	1	.6
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<u>3</u>		Exh.	Vent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.</u> <u>§120.1(d)5</u> , and <u>§120.1(e)3</u>	
Classroom	Lecture/ postsecondary classroom	895		30	450	0	0	DCV	Provided pe §120.1(d)4
Classicolli	Lecture/ postsecondary classroom	893		30	430		Ü	Occ Sensor	NA: Not requir space type
17	Total System Required Min OA CFM				450	18	Ventilation for this :	System Complies?	Yes
	04		05				06	C	7
		System Desi	gn OA CEM		Systom	Design		Air Filtration per §120	.1(c) and §141.0(
System Name	RTU-G1	Airfl	-	450		Air CFM	0		<u>20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	.6
	Mechanical Ventila	tion Required	per §120.1(c))3 ³		Exh.	Vent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area	# of Shower heads/	# of	Required Min OA	Required	Provided per Design	DCV or Sensor Cont §120.1(d)5, ar	rols per <u>§120.1(d</u> nd <u>§120.1(e)3</u> ⁶

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Project Address	:		1941 E V	Norkman Ave	Date Prep	ared:			5/4/20
J. VENTILATIO	ON AND INDOOR AIR QUALITY								
Classroom	Lecture/ postsecondary classroom	895		30	450	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classroom	833		30	430	U	U	Occ Sensor	NA: Not require space type
17	Total System Required Min OA CFM				450	18	Ventilation for this S	System Complies?	Yes
	04 05						06	0	7
		System Desi	ian OA CEM		Custom	Dosian		Air Filtration per §120	.1(c) and §141.0(b
System Name	RTU-H3	Airfl	_	450	System Transfer	-	0		<u>20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	.6
	Mechanical Ventila	per §120.1(c)	<u>3</u> 3		Exh.	Vent per §120.1(c)4			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design	DCV or Sensor Controls per <u>§120.1(d)</u> ; <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶	
Classroom	Lecture/ postsecondary classroom	895		30	450	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classroom	833		30	430			Occ Sensor	NA: Not require space type
17	Total System Required Min OA CFM				450	18	Ventilation for this S	System Complies?	Yes
	04		05				06	0	7
		System Desi	ign ΩΔ CEM		System	Design		Air Filtration per §120	.1(c) and §141.0(b
System Name	RTU-I1	l '	System Design OA CFM Airflow ¹ 450			Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))	
=				ì				1	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Occupancy Type⁴

Registration Date/Time:

Registration Provider: Energysoft

DCV or Sensor Controls per §120.1(d)3,

§120.1(d)5, and §120.1(e)3 6

Occ Sensor space type 17 Total System Required Min OA CFM 450 18 Ventilation for this System Complies? Yes Air Filtration per §120.1(c) and §141.0(b)2 System Design OA CFM System Design system Name RTU-G2 Provided per §120.1(c) (NR and Transfer Air CFM Airflow¹ Hotel/Motel)) Mechanical Ventilation Required per §120.1(c)3 Exh. Vent per §120.1(c)4 people⁵ Min OA CFM Required Min CFM Provided per Design CFM Space Name DCV or Sensor Controls per §120.1(d)3, ot item Tag Floor Area heads/ §120.1(d)5, and §120.1(e)3 6 Occupancy Type⁴ toilets (ft²) Provided per DCV 450 0 Classroom Lecture/ postsecondary classroom 895 Occ Sensor space type 17 Total System Required Min OA CFM 450 18 Ventilation for this System Complies? Air Filtration per §120.1(c) and §141.0(b)2 System Design OA CFM System Design System Name RTU-G3 Provided per §120.1(c) (NR and Transfer Air CFM Hotel/Motel)) 08 10 | 11 | 12 | 13 | 14 |

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DCV or Sensor Controls per §120.1(d)3,

§120.1(d)5, and §120.1(e)3 6

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Space Name

ot item Tag

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Conditioned # of Shower Floor Area (ft²) toilets # of people5 Required Min OA CFM Required Min CFM CFM

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of Min OA Provided per Design Provided per Design CFM §120.1(d)5, and §120.1(e)3 6 floor Area heads/ people⁵ Min OA Min CFM Min CFM Registration Provider: Energysoft Registration Number: Report Generated: 2022-05-04 08:40:41 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Schema Version: rev 20200601 Schema Version: rev 20200601

> Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name:

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10 11 12 13 14 15 Exh. Vent per §120.1(c)4 Mechanical Ventilation Required per §120.1(c)3

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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TITLE 24 COMPLIANCE

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E CVUSD Workman Report Page:
1941 E Workman Ave Date Prepared: Project Name: (Page 19 of 36) Project Address:

J. VENTILATIO	ON AND INDOOR AIR QUALITY									
		005			450			DCV	Provided per §120.1(d)4	
Classroom	Lecture/ postsecondary classroom	895		30	450	0	0	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM				450	18	Ventilation for this	System Complies?	Yes	
	04		05				06	0	7	
		System Desi	an OA CEM		Systom	Design		Air Filtration per §120	.1(c) and §141.0(b)2	
System Name	RTU-I2	Airfl	_	450		Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15	1	.6	
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>	<u>3</u> 3		Exh.	Vent per §120.1(c)4			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d) §120.1(d)5, and §120.1(e)3 6		
Classroom	Lecture/ postsecondary classroom	ture/ postsecondary classroom 895		30	450	0	0	DCV	Provided per §120.1(d)4	
Classicolli	Lecture/ postsecondary classicom	833		30	430		Ů	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM				450	18	Ventilation for this :	System Complies?	Yes	
	04		05				06	0	7	
		System Desi	gn OA CFM		System	Design		Air Filtration per §120	.1(c) and §141.0(b)2	
System Name	RTU-I3	Airfl	-	450		Air CFM	0	Provided per §120.1(c) (NR an Hotel/Motel))		
08	09	10	11	12	13	14	15	1	.6	
	Mechanical Ventila	tion Required)3 ³		Exh.	Vent per §120.1(c)4				
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM		DCV or Sensor Cont §120.1(d)5, ar	rols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> ⁶	

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41

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STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

Project Address:

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CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page:
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L. DISTRIBUTION	(DIICTWORK :	and PIPING)									
E. DISTRIBUTION	(DOCTWORK)			_	reater than the u-factor of the ceiling, or if the roof doe I vents or openings to the outside/ unconditioned space						
			In an unconditioned o	crawl space							
			In other unconditioned spaces								
15		The scope of the	project includes exten	nding an existing duct system, v	which is constructed, insulated or sealed with asbestos.						
16	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.										
17 Yes Duct system shall be sealed in acordance with the California Mechanical Code											
The answers to the	questions below	apply to the foll	owing duct systems:	RTU-E1	Duct leakage testing triggered for these systems?	No					
11	No	The scope of the	project includes only	duct systems serving healthcar	e facilities						
12	Yes	Duct system prov	vides conditioned air to	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.						
13	Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area.										
14	No The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:										
	-		Outdoors								
				-	reater than the u-factor of the ceiling, or if the roof doe I vents or openings to the outside/ unconditioned space						
			☐ In an unconditioned crawl space								
			In other unconditione	n other unconditioned spaces							
15		The scope of the	project includes exten	nding an existing duct system, v	which is constructed, insulated or sealed with asbestos.						
16		· ·			mented to have been previously sealed as confirmed the Nonresidential Appendix NA2.	rough field verification					
17	Yes	Duct system shal	ll be sealed in acordan	ce with the California Mechani	cal Code						
The answers to the	questions below	apply to the foll	owing duct systems:	RTU-E2	Duct leakage testing triggered for these systems?	No					
11	No	The scope of the	project includes only	duct systems serving healthcar	e facilities						
12	Yes	Duct system prov	vides conditioned air to	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.						
13	Yes	The space condit	tioning system serves l	ess than 5,000 ft ² of condition	ed floor area.						
14	No	The <u>combined</u> su	rface area of the duct	s in the following locations is n	nore than 25% of the total surface area of the entire due	ct system:					
			Outdoors								
·											

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41 Schema Version: rev 20200601

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L. DISTRIBUTION	(DUCTWORK a	ind PIPING)										
				_	reater than the u-factor of the ceiling, or if the roof doe vents or openings to the outside/ unconditioned space							
			In an unconditioned o	rawl space								
			In other unconditioned spaces									
15		The scope of the	project includes exten	ding an existing duct system, v	which is constructed, insulated or sealed with asbestos.							
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.										
17	17 Yes Duct system shall be sealed in acordance with the California Mechanical Code											
The answers to the	questions below	v apply to the follo	owing duct systems:	RTU-H1	Duct leakage testing triggered for these systems?	No						
11	No	The scope of the	project includes only	duct systems serving healthcar	e facilities							
12	Yes	Duct system prov	vides conditioned air to	o an occupiable space for a cor	stant volume, single zone, space-conditioning system.							
13	Yes	Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area.										
14	No	The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:										
			Outdoors									
			In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces									
			In an unconditioned c	rawl space								
			In other unconditione	ed spaces								
15		The scope of the	project includes exten	ding an existing duct system, v	which is constructed, insulated or sealed with asbestos.							
16					mented to have been previously sealed as confirmed the Nonresidential Appendix NA2.	rough field verification						
17	Yes	Duct system shal	l be sealed in acordand	ce with the California Mechani	cal Code							
The answers to the	questions below	v apply to the follo	owing duct systems:	RTU-H2	Duct leakage testing triggered for these systems?	No						
11	No	The scope of the	project includes only	duct systems serving healthcar	e facilities							
12	Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.											
13	Yes	The space condit	ioning system serves le	ess than 5,000 ft ² of conditione	ed floor area.							
14	No	The <u>combined</u> su	rface area of the ducts	s in the following locations is m	nore than 25% of the total surface area of the entire duc	t system:						
			Outdoors									

Registration Date/Time:

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Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page:
1941 E Workman Ave Date Prepared: Project Name: (Page 20 of 36) Project Address: J. VENTILATION AND INDOOR AIR QUALITY Provided per DCV §120.1(d)4 Classroom | Lecture/ postsecondary classroom NA: Not required Occ Sensor space type 17 Total System Required Min OA CFM Ventilation for this System Complies? ¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system ² Air filtration requirements apply to the following three system types per $\S120.1(c)1A$: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space. ³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. ⁴ See Standards Tables 120.1-A and 120.1-B. ⁵ For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code. ⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c)</sup> to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices $250 \mathrm{ft}^2$ or smaller, multipurpose rooms less than $1,000 \mathrm{ft}^2$, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c). K. TERMINAL BOX CONTROLS This section does not apply to this project. L. DISTRIBUTION (DUCTWORK and PIPING) This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(1) for duct leakage testing. The answers to the questions below apply to the following duct systems: RTU-C1 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: 14 Outdoors Registration Number: Registration Date/Time: Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page:
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	N (DUCTWOR		l		and the state of t	
					reater than the u-factor of the ceiling, or if the roof does I vents or openings to the outside/ unconditioned spaces	
			In an unconditioned cra		rvents of openings to the outside, unconditioned spaces	,
			In other unconditioned	<u> </u>		
15					which is constructed, insulated or sealed with asbestos.	
16		The scope of the	project includes an exist	ting duct system that is docu	mented to have been previously sealed as confirmed three Nonresidential Appendix NA2.	ough field verif
17	Yes	Duct system shal	l be sealed in acordance	with the California Mechani	cal Code	
answers to th	ne questions bel	ow apply to the foll	owing duct systems:	RTU-E3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the	project includes only du	ct systems serving healthcar	e facilities	
12	Yes	Duct system prov	vides conditioned air to a	an occupiable space for a cor	nstant volume, single zone, space-conditioning system.	
13	Yes	The space condit	ioning system serves les	s than 5,000 ft ² of condition	ed floor area.	
14	No	The <u>combined</u> su	irface area of the ducts i	n the following locations is n	nore than 25% of the total surface area of the entire duct	t system:
	•		Outdoors			
				-	reater than the u-factor of the ceiling, or if the roof does I vents or openings to the outside/ unconditioned spaces	
			In an unconditioned cra	wl space		
			In other unconditioned	spaces		
15		The scope of the	project includes extend	ing an existing duct system, v	which is constructed, insulated or sealed with asbestos.	
16					mented to have been previously sealed as confirmed thr e Nonresidential Appendix NA2.	ough field verif
17	Yes	Duct system shal	l be sealed in acordance	with the California Mechani	cal Code	
answers to th	ne questions bel	ow apply to the foll	owing duct systems:	RTU-G1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the	project includes only du	ct systems serving healthcar	e facilities	
12	Yes	Duct system prov	vides conditioned air to a	an occupiable space for a cor	nstant volume, single zone, space-conditioning system.	
13	Yes	The space condit	ioning system serves les	s than 5,000 ft ² of condition	ed floor area.	
14	No	The combined su	urface area of the ducts i	n the following locations is m	nore than 25% of the total surface area of the entire duct	t system.

Registration Number: Registration Date/Time: Registration Provider: Energysoft Report Generated: 2022-05-04 08:40:41 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E CVUSD Workman Report Page: (Page 26 of 36) Project Name: 1941 E Workman Ave Date Prepared: Project Address:

DISTRIBUTIO	N (DUCTWORK	and PIPING)										
					r greater than the u-factor of the ceiling, or if the roof does ed vents or openings to the outside/ unconditioned spaces							
			In an unconditioned o	rawl space								
			In other unconditione	ed spaces								
15		The scope of th	e project includes exten	ding an existing duct system	, which is constructed, insulated or sealed with asbestos.							
16					cumented to have been previously sealed as confirmed thronce Nonresidential Appendix NA2.	ough field verification						
17	Yes	Duct system sha	all be sealed in acordan	ce with the California Mecha	nical Code							
ne answers to th	ne questions belo	w apply to the fo	llowing duct systems:	RTU-H3	Duct leakage testing triggered for these systems?	No						
11	No	The scope of th	e project includes only	duct systems serving healtho	care facilities							
12	Yes	Duct system pro	ovides conditioned air to	o an occupiable space for a c	constant volume, single zone, space-conditioning system.							
13	Yes	The space cond	e space conditioning system serves less than 5,000 ft ² of conditioned floor area.									
14	No	The combined	surface area of the duct	s in the following locations is	s more than 25% of the total surface area of the entire duct	system:						
	•		Outdoors									
					r greater than the u-factor of the ceiling, or if the roof does ed vents or openings to the outside/ unconditioned spaces							
			In an unconditioned o	rawl space								
			In other unconditione	ed spaces								
15		The scope of th	e project includes exten	ding an existing duct system	, which is constructed, insulated or sealed with asbestos.							
16			, -		cumented to have been previously sealed as confirmed thronce Nonresidential Appendix NA2.	ough field verification						
17	Yes	Duct system sha	all be sealed in acordance	ce with the California Mecha	nical Code							
ne answers to th	ne questions belo	w apply to the fo	llowing duct systems:	RTU-I1	Duct leakage testing triggered for these systems?	No						
11	No	The scope of th	e project includes only	duct systems serving healtho	care facilities							
12	Yes	Duct system pro	ovides conditioned air to	o an occupiable space for a c	constant volume, single zone, space-conditioning system.							
13	Yes	The space cond	itioning system serves l	ess than 5,000 ft ² of condition	oned floor area.	-						
14	No	The combined	surface area of the duct	s in the following locations is	s more than 25% of the total surface area of the entire duct	system:						
	_		Outdoors									

Registration Date/Time: Registration Number: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41 Schema Version: rev 20200601

CERTIFICATE OF COMPLIANCE Project Name: CVUSD Workman Report Page:
1941 E Workman Ave Date Prepared: (Page 21 of 36) Project Address: 5/4/2022 L. DISTRIBUTION (DUCTWORK and PIPING) In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces ☐ In an unconditioned crawl space ☐ In other unconditioned spaces 15 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. Yes Duct system shall be sealed in acordance with the California Mechanical Code he answers to the questions below apply to the following duct systems: RTU-C2 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. The space conditioning system serves less than 5,000 ft² of conditioned floor area. No The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space ☐ In other unconditioned spaces 15 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. 17 Yes Duct system shall be sealed in acordance with the California Mechanical Code The answers to the questions below apply to the following duct systems: RTU-D1 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. The space conditioning system serves less than 5,000 ft² of conditioned floor area. No The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: 14 Registration Number: Registration Date/Time: Registration Provider: Energysoft

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

L. DISTRIBUTION (DUCTWORK and PIPING)

STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page:
1941 E Workman Ave Date Prepared: (Page 24 of 36) Project Name: Project Address: L. DISTRIBUTION (DUCTWORK and PIPING)

Report Version: 2019.1.003

Schema Version: rev 20200601

	·					
					reater than the u-factor of the ceiling, or if the roof doe I vents or openings to the outside/ unconditioned space	
			In an unconditioned o	crawl space		
			In other unconditione	ed spaces		
15		The scope of the	project includes exter	nding an existing duct system, v	which is constructed, insulated or sealed with asbestos.	
16					mented to have been previously sealed as confirmed th e Nonresidential Appendix NA2.	rough field verificat
17	Yes	Duct system sha	II be sealed in acordan	ce with the California Mechani	cal Code	
The answers to the	e questions belo	ow apply to the foll	lowing duct systems:	RTU-G2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the	project includes only	duct systems serving healthcar	re facilities	
12	Yes	Duct system pro	vides conditioned air to	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.	
13	Yes	The space condit	tioning system serves l	ess than 5,000 ft ² of condition	ed floor area.	
14	No	The <u>combined</u> su	urface area of the duct	s in the following locations is n	nore than 25% of the total surface area of the entire due	t system:
			Outdoors			
				-	reater than the u-factor of the ceiling, or if the roof doe I vents or openings to the outside/ unconditioned space	
			In an unconditioned of	crawl space		
			In other unconditions	ed spaces		
15		The scope of the	project includes exter	nding an existing duct system, v	which is constructed, insulated or sealed with asbestos.	
16				,	mented to have been previously sealed as confirmed th e Nonresidential Appendix NA2.	rough field verificat
17	Yes	Duct system sha	II be sealed in acordan	ce with the California Mechani	cal Code	
The answers to the	e questions belo	ow apply to the foll	lowing duct systems:	RTU-G3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the	project includes only	duct systems serving healthcar	re facilities	
12	Yes	Duct system pro	vides conditioned air to	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.	
13	Yes	The space condit	tioning system serves l	ess than 5,000 ft ² of condition	ed floor area.	
14	No	The <u>combined</u> su	urface area of the duct	s in the following locations is n	nore than 25% of the total surface area of the entire due	t system:
	•		Outdoors			

Registration Number: Registration Date/Time: Registration Provider: Energysoft Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE CVUSD Workman Report Page: (Page 27 of 36) Project Name: 1941 E Workman Ave Date Prepared: Project Address:

	(200:110:1111	,								
				_	reater than the u-factor of the ceiling, or if the roof doe vents or openings to the outside/ unconditioned space					
			In an unconditioned of		, , , , , , , , , , , , , , , , , , , ,					
			In other unconditions	ed spaces						
15		The scope of the	project includes exter	nding an existing duct system, w	which is constructed, insulated or sealed with asbestos.					
16					mented to have been previously sealed as confirmed the Nonresidential Appendix NA2.	rough field verification				
17	Yes	Duct system shal	l be sealed in acordan	ce with the California Mechanic	cal Code					
ne answers to the	questions belov	v apply to the foll	owing duct systems:	RTU-I2	Duct leakage testing triggered for these systems?	No				
11	No	The scope of the	project includes only	duct systems serving healthcare	e facilities					
12	Yes	Duct system prov	vides conditioned air t	o an occupiable space for a con	stant volume, single zone, space-conditioning system.					
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.								
14	No	No The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:								
			Outdoors		-					
					reater than the u-factor of the ceiling, or if the roof doe vents or openings to the outside/ unconditioned space					
			In an unconditioned	rawl space						
			In other uncondition	ed spaces						
15		The scope of the	project includes exter	nding an existing duct system, w	hich is constructed, insulated or sealed with asbestos.					
16			, ,	· ,	mented to have been previously sealed as confirmed the Nonresidential Appendix NA2.	rough field verification				
17	Yes	Duct system shal	l be sealed in acordan	ce with the California Mechanic	cal Code					
he answers to the	questions belov	v apply to the foll	owing duct systems:	RTU-I3	Duct leakage testing triggered for these systems?	No				
11	No	The scope of the	project includes only	duct systems serving healthcare	e facilities					
12	Yes	Duct system prov	vides conditioned air t	o an occupiable space for a con	stant volume, single zone, space-conditioning system.					
13	Yes	The space condit	ioning system serves l	ess than 5,000 ft ² of conditione	ed floor area.					
14	No	The <u>combined</u> su	rface area of the duct	s in the following locations is m	ore than 25% of the total surface area of the entire duc	t system:				
			Outdoors							

Registration Date/Time: Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft Report Version: 2019.1.003 Report Generated: 2022-05-04 08:40:41 Schema Version: rev 20200601

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR

SS FLS ACS
DATE: 02/16/2023

DIR Group





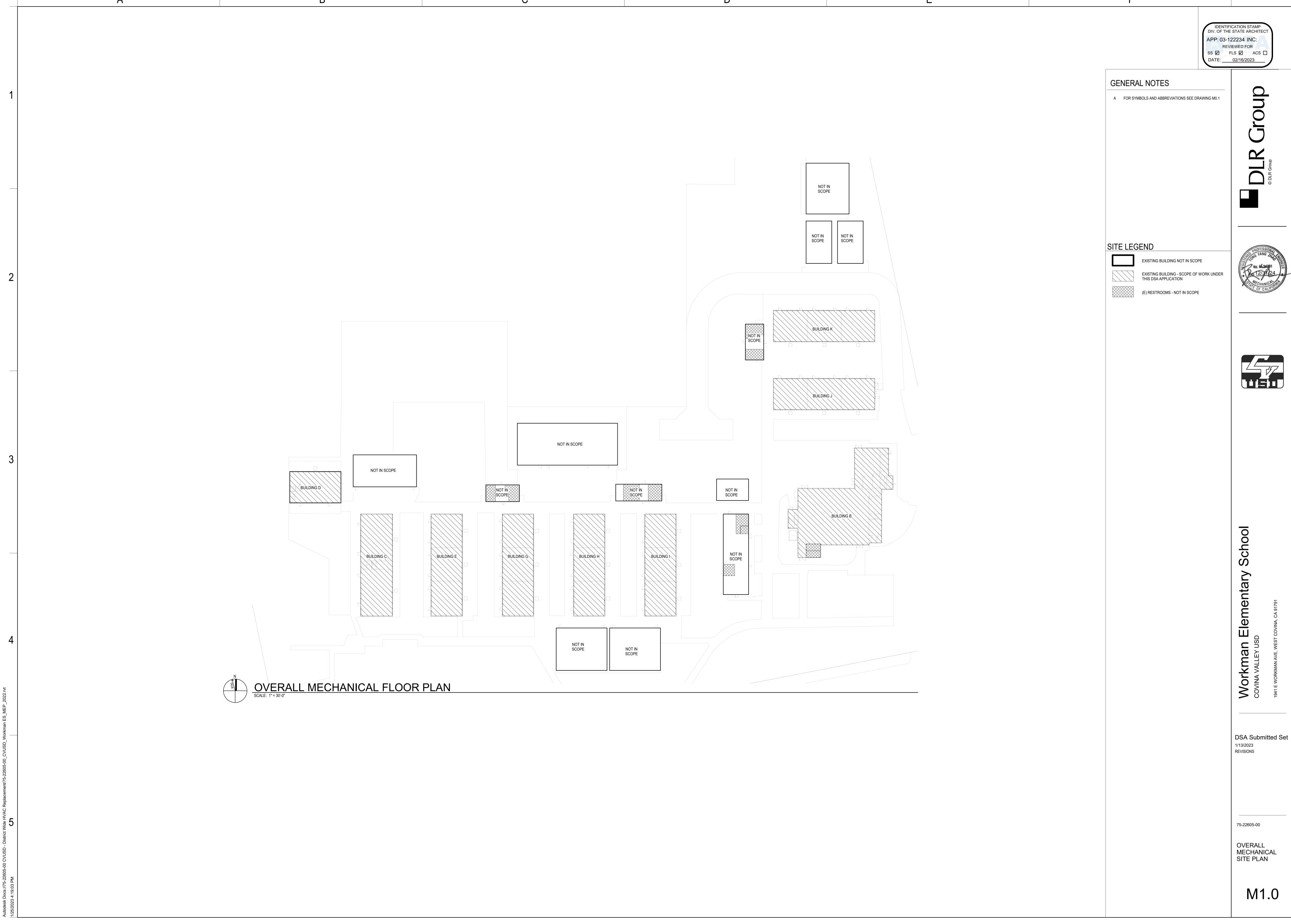
nan Elementary School

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75-22605-00

TITLE 24
COMPLIANCE

M0.5





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DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. TYP.

GENERAL NOTES

SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
 DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.





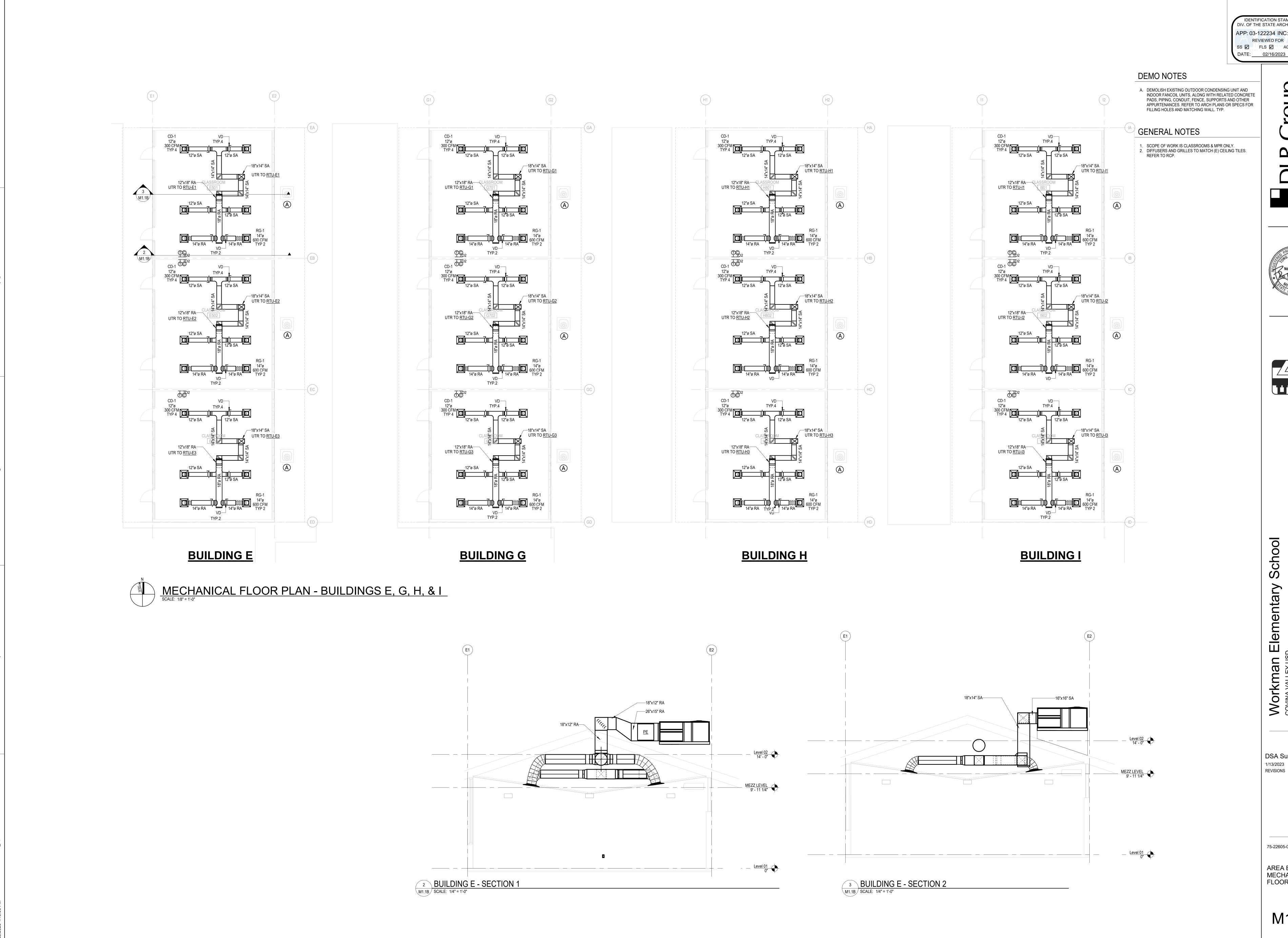
School Workman Elementary

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75-22605-00

AREA A -MECHANICAL FLOOR PLAN

M1.1A



APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆





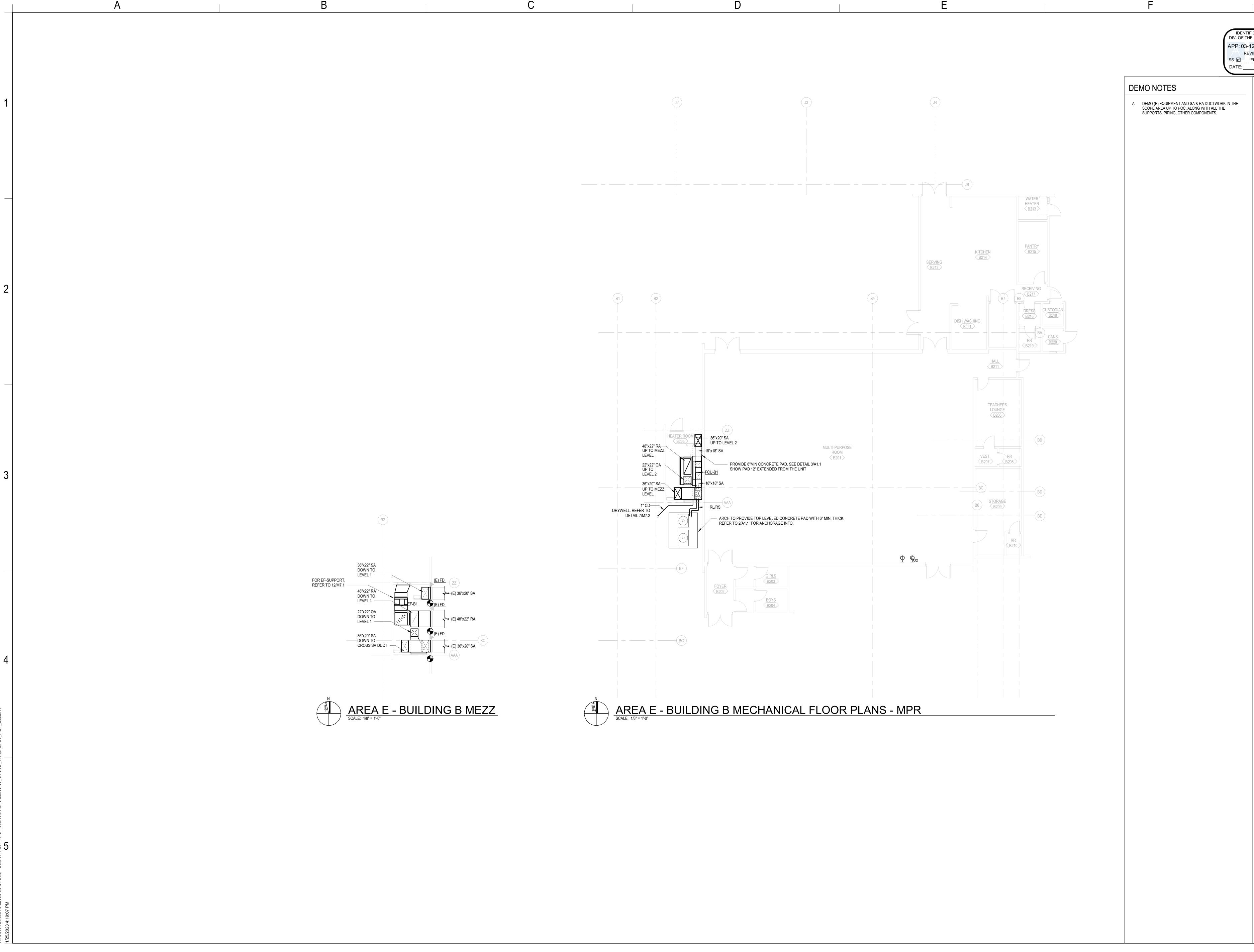
Workman Elementary

DSA Submitted Set

75-22605-00

AREA B -MECHANICAL FLOOR PLAN

M1.1B



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

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SS FLS ACS D

DATE: 02/16/2023

DLR Group





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1/13/2023
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75-22605-00

AREA E -MECHANICAL FLOOR PLAN

M1.1E

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

GENERAL NOTES

SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
 PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.

DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS, AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYP.





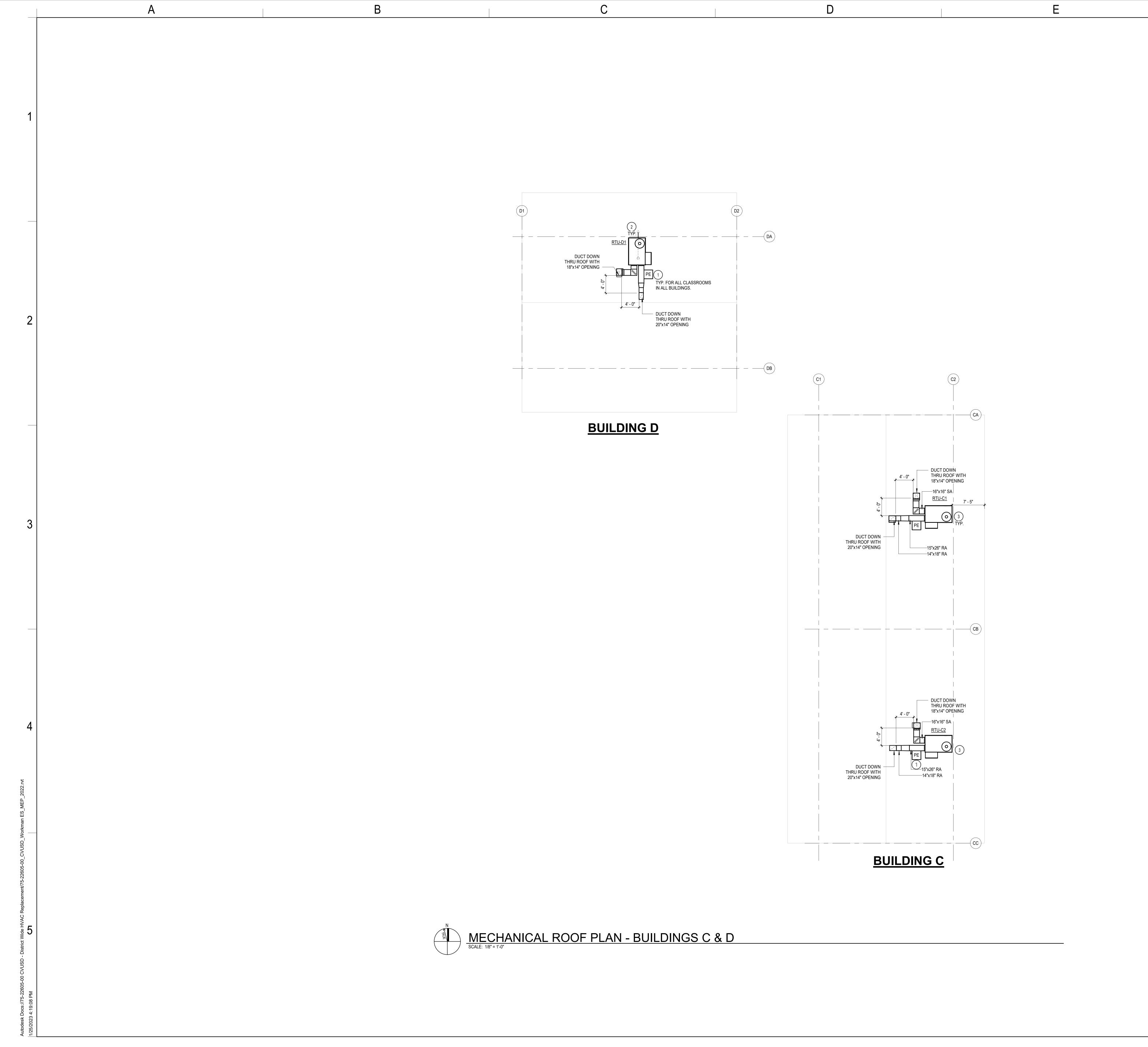




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75-22605-00

AREA F -MECHANICAL FLOOR PLAN



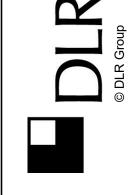
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122234 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □

GENERAL NOTES

SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
 PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
 NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO BOT CUT THE JOIST.

KEY NOTES

- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
 RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
 RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.









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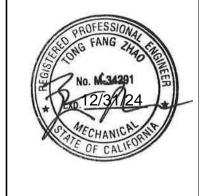
AREA A -MECHANICAL ROOF PLAN

M1.3A

GENERAL NOTES

- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
 2. PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
 3. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA
- 4. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA









REVISIONS

75-22605-00

AREA B -MECHANICAL ROOF PLAN

M1.3B

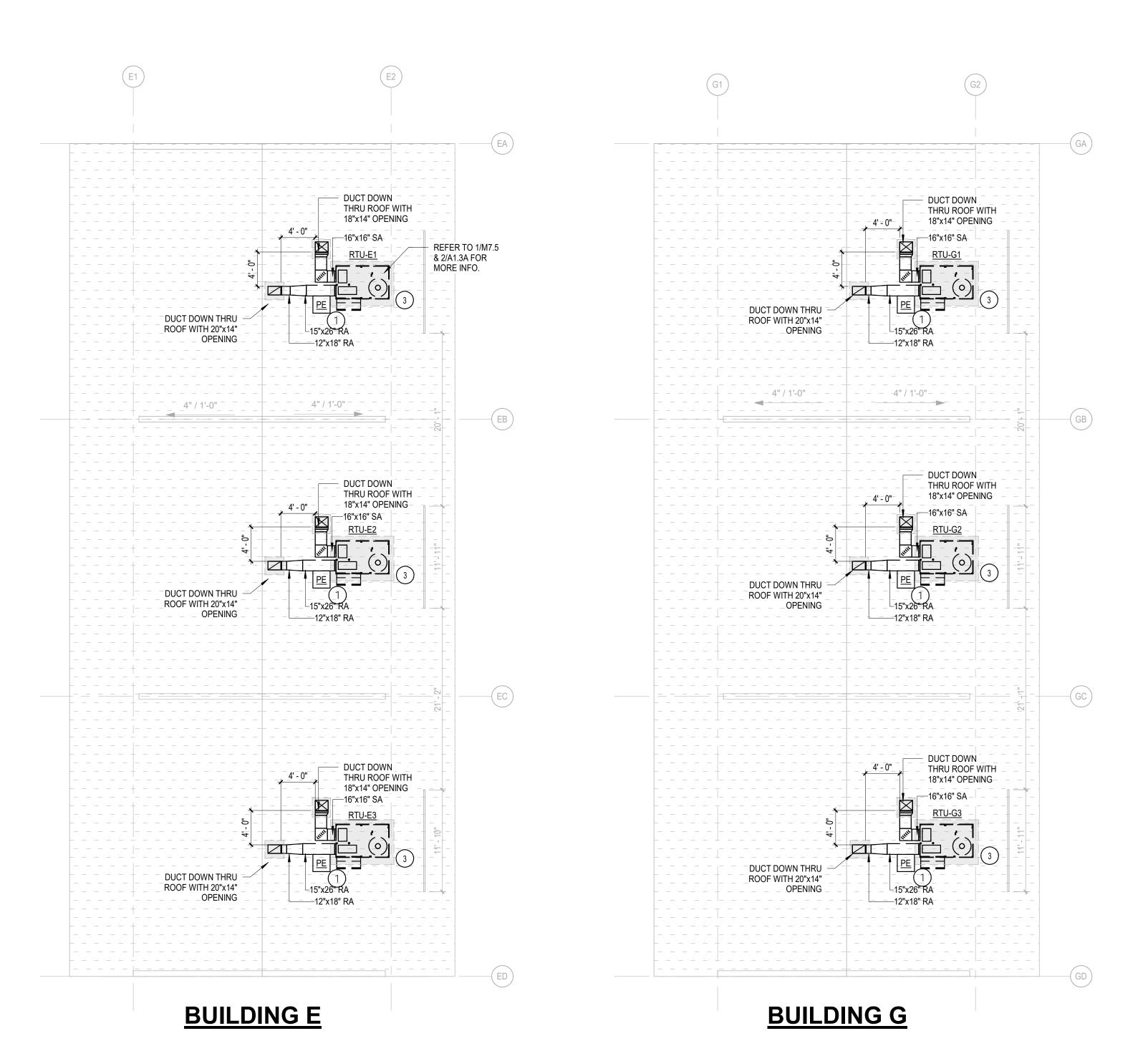
KEY NOTES

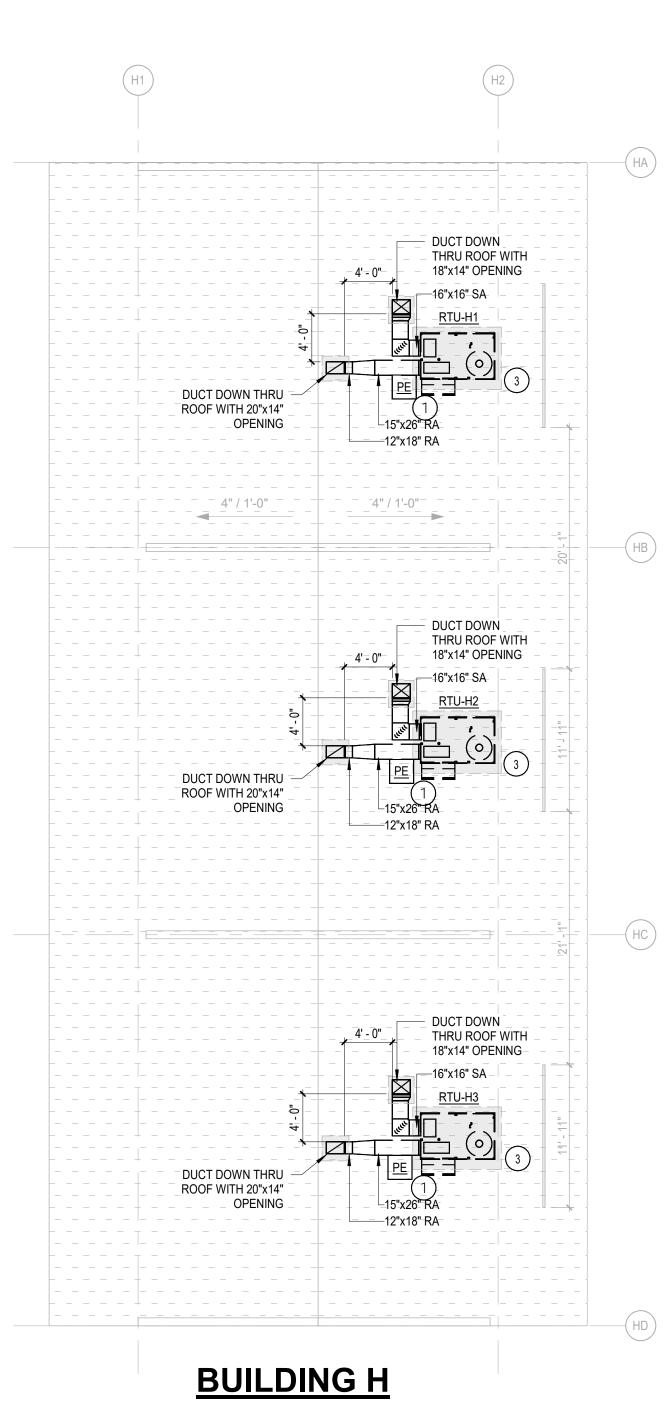
- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY
- ON SITE. TYP.

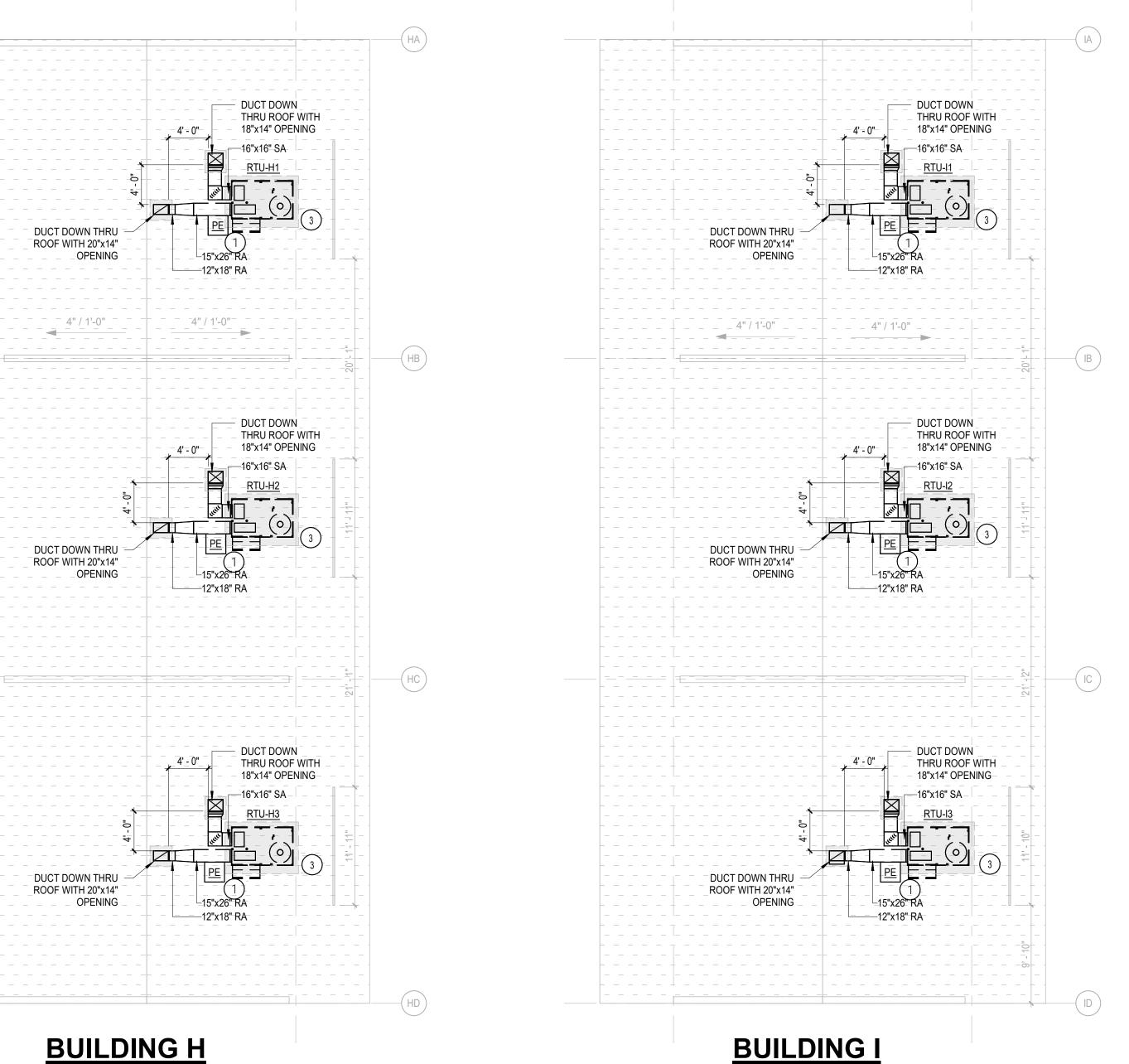
 2. RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
- 3. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.

 4. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO BOT CUT THE









MECHANICAL ROOF PLAN - BUILDINGS E, G, H, & I

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 02/16/2023

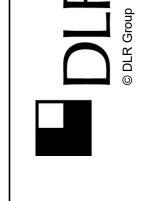
GENERAL NOTES

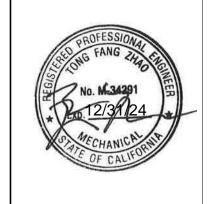
- SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
 PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
 NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO BOT CUT THE
- JOIST.

 4. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
 RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
 RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.





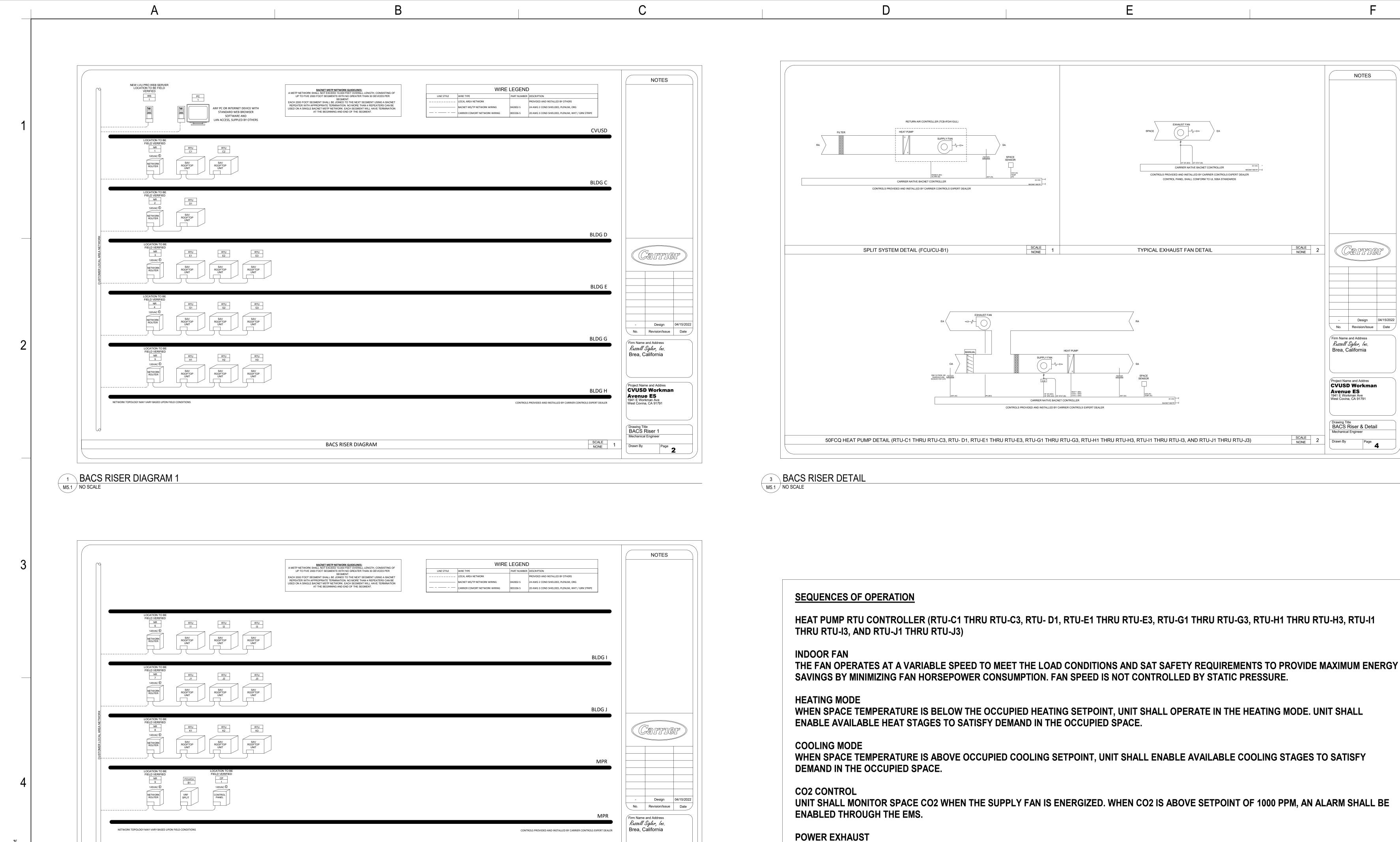




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75-22605-00

AREA F -MECHANICAL ROOF PLAN



Project Name and Addres

CVUSD Workman

Drawing Title
BACS Riser 2

SCALE NONE 1 Drawn By Page 3

BACS RISER DIAGRAM

BACS RISER DIAGRAM 2

M5.1 NO SCALE

THE EXHAUST FAN SHALL RUN THE UNIT IS OCCUPIED.

IDENTIFICATION STAMP APP: 03-122234 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □

NOTES

No. Revision/Issue Date

Firm Name and Address Russell Sigler, Inc.

Brea, California

CVUSD Workman

Drawing Title
BACS Riser & Detail

Avenue ES 1941 E Workman Ave West Covina, CA 91791





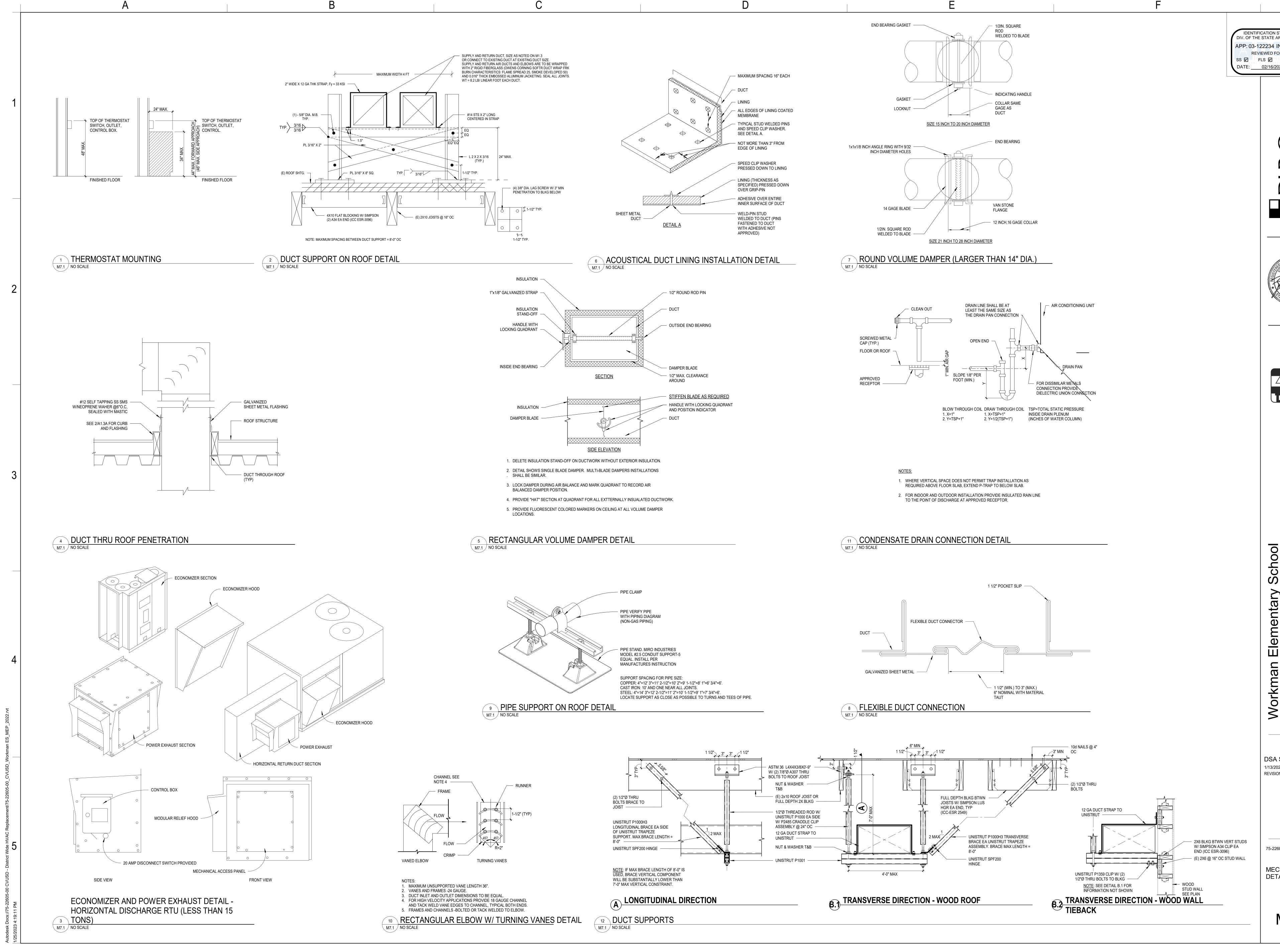
Elementary Workman COVINA VALLEY USE

DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00

CONTROLS DIAGRAMS

M5.1



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS ✓ FLS ✓ ACS □ DATE: 02/16/2023



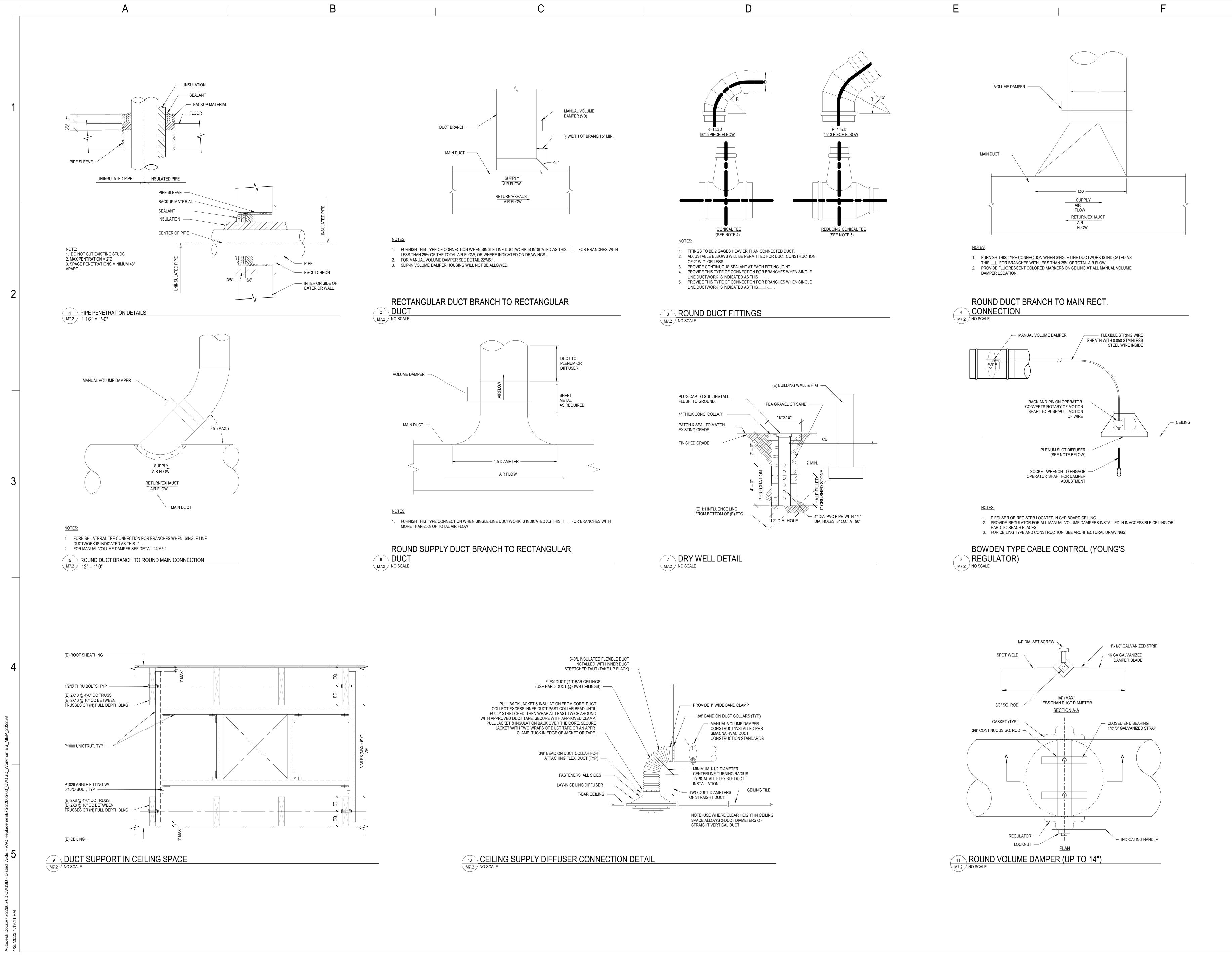
Workman COVINA VALLEY USE

DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00 **MECHANICAL**

DETAILS

M7.1



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR
SS FLS ACS
DATE: 02/16/2023

DLR Group





Workman Elementary Sc

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1/13/2023
REVISIONS

75-22605-00

MECHANICAL DETAILS

M7.2









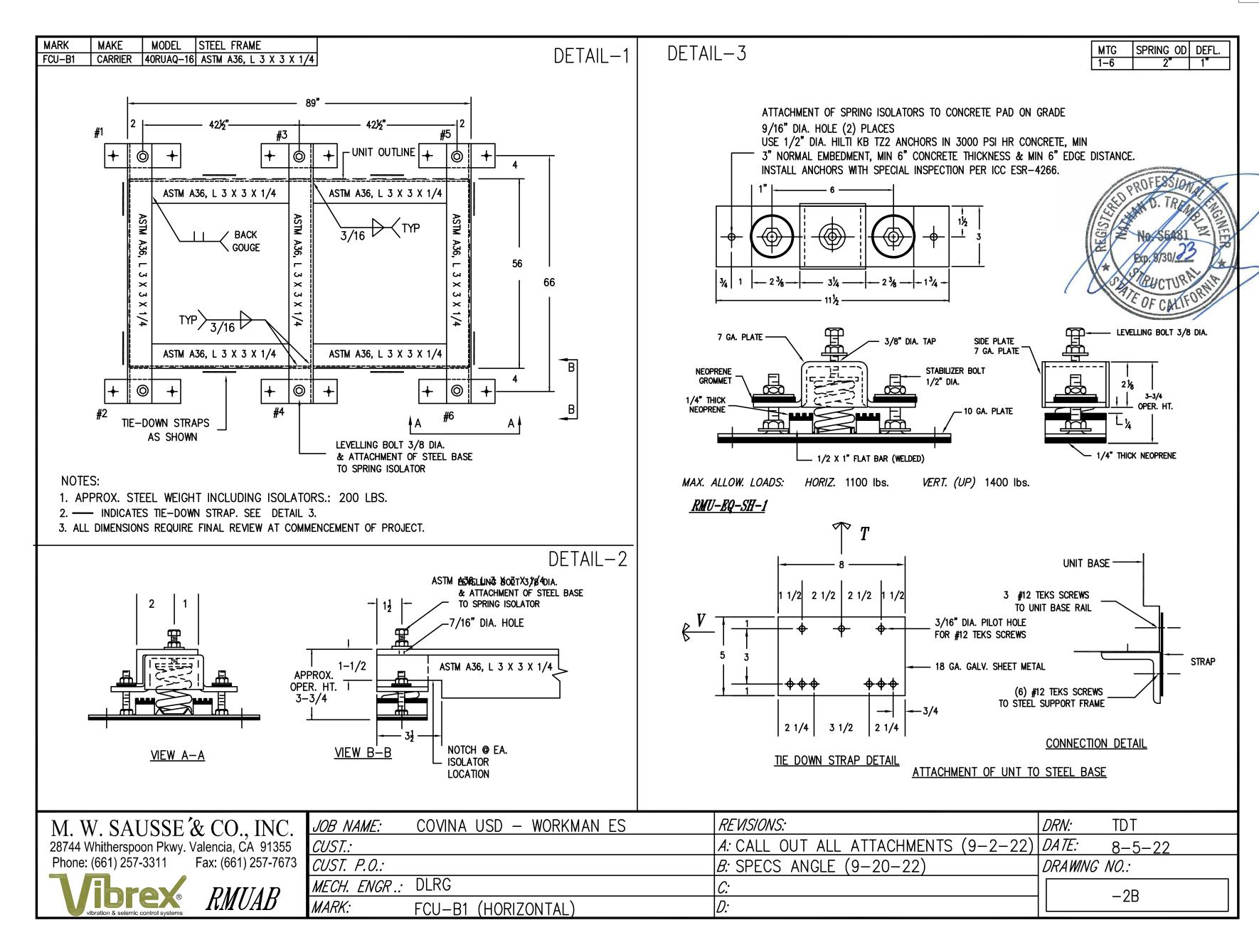
Workman Elementary

DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00

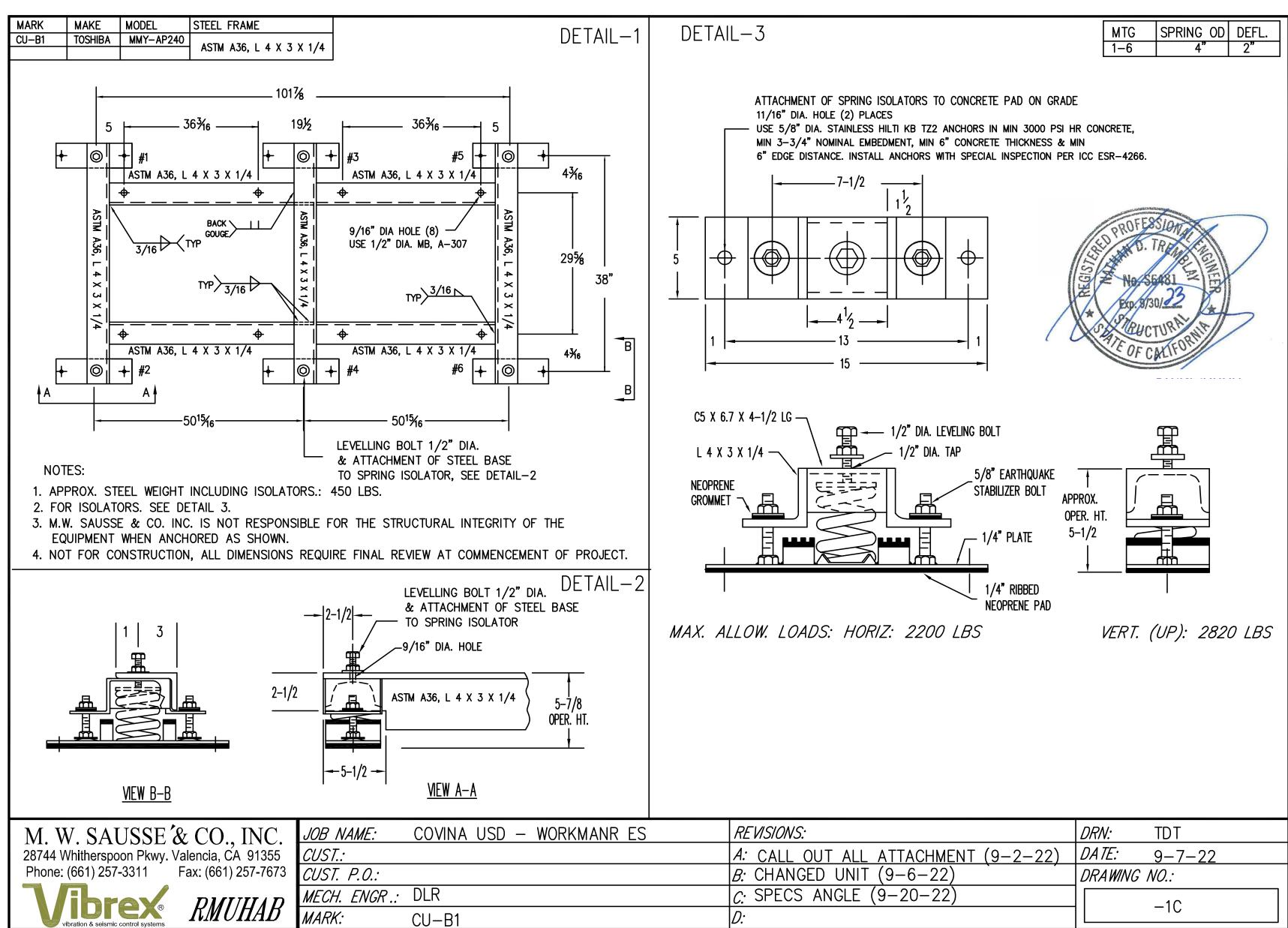
MECHANICAL DETAILS

M7.3



1 FCU-B1 NO SCALE

CU-B1



1 CU-B1 NO SCALE





Workman Elementary

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75-22605-00

MECHANICAL DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122234 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 02/16/2023

DIR Group







Workman Elementary Schoc covina Valley USD

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1/13/2023
REVISIONS

75-22605-00

MECHANICAL DETAILS

M7.5

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122234 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 02/16/2023

DATE.	02/10/2023
	Group
	4





VERIFY ALL DIMENSIONS AT THE SITE, MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

DUCT SIZING *** MEDIUM PRESSURE DUCTWORK

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID

INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE

CFM ROUND DUCT (IN)

UP TO 150

151-280

281-500

501-800

801-1200

RECTANGULAR DUCT (IN) (W IS DUCT WIDTH)





DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00

MECHANICAL SCHEDULES

M8.1

MODEMAN AVE ACTINIT DEDI ACEMENT

											WORKMAN AVE. AC UNIT REPLACEMENT																								
		W	ORKMAN AVE. E	.S. EXI	STING (JNIT																	NEW	UNIT											
					G WEIGH	DIRECT REPLACE MENT?	CARRIER MODEL#		OOLING CAI		AIRFLOW (ESP (HEATING CAPACI Y	MERV	FILTER QUANT & SIZE (W" X F		ECTRICAL	WEIGHT	OUTSIDE AIR HOOD	HOOD		POWER EXHAUST		WE	ROOF CURB TOTAL WEIGHT		UNIT DIMENSIONS (L" X W" X H")	ANCHORAGE DETAIL REFERENCE						
			UT (BTU/HR)	·	MCA F	FLA	EXISTIN WEIG	GH EXISTING V	(LBS)	Y/N		NOMINAL TON	TOTAL (BTUH)	SENSIBL E (BTUH)	SUPPLY	MIN OSA		(MBH)	RATING	D")	V-PH	MCA MC	CP LBS	WEIGHT (LBS)	REQUIRED ?	EIGHT REQ	UIRED ?	MODEL#	MCA	MOCP W	,	BS) (LBS	5)		
l F	U-C1 & RTU-C2 (BDLG. C)	SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	2) 240/1	26 3	0 469	12	NO	NA Y	/ES F	PCD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
	RTU-D1 (BDLG. D)	SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	2) 240/1	26 3	0 469	12	NO	NA Y	/ES F	PCD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
RT	-J1 THRU RTU-J3 (BDLG.	J) SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	2) 240/1	26 3	0 469	12	NO	NA Y	/ES F	PCD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
RT	-K1 THRU RTU-K3 (BDLG.	K) SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	240/1	26 3	0 469	12	NO	NA Y	/ES F	CD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
RT	E1 THRU RTU-E3 (BDLG.	E) SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	240/1	26 3	0 469	12	NO	NA Y	/ES F	PCD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
RTU	G1 THRU RTU-G3 (BDLG.	G) SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	2) 240/1	26 3	0 469	12	NO	NA Y	/ES F	CD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
RTU	H1 THRU RTU-H3 (BDLG.	H) SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	240/1	26 3	0 469	12	NO	NA Y	/ES F	CD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
R.	J-I1 THRU RTU-I3 (BDLG.) SANYO CH3622 (36THS22	3.0 36000	240/1	50 1	8.3 218		NO	- 218	Y	50FCQA04A2A3	3	35000	26150	1200	250 1	14.3 11	.32 34.1	13	2 (16X25X2)	240/1	26 3	0 469	12	NO	NA Y	/ES F	CD-SRT12CA	7.1	12.8	152	756		75 X 47 X 34	1/M7.5
	CU-B1 (BLDG. B)	N/A									MMY-AP240S6HT6P-UL	20					22.7 11	.95			460/3	23+23 30-	+30 1368		NO	NA I	NO	NA	NA	NA	NA	1368	3	104x31x73	1/M7.4
	FCU-B1 (BLDG. B)	N/A									40RUQA25T3A6-0A0A0		234500	166000	7440	2000 1.2	2	234.5	13	4 (16X20X2).	460/3	19 3	0 720		NO	NA I	NO	NA	NA	NA	NA	720		89 X 29 X 57	1/M7.3

PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE.
 ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
 ALL ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION, UNO. FIELD VERIFY PRIOR TO ORDERING.

4. PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS. 5. FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT AND OUTSIDE AIR HOOD, AS APPLICABLE. 6. SCCR RATING OF RTUS SHALL BE MINIMUM OF 10KA FOR CLASSROOM RTUS AND MPR FCU-B1, AND 25 KA FOR MPR CU-B1.

	DIFFUSER AND GRILLE SCHEDULE											
MARK NO.	MANUFACTURER & MODEL NO.	TYPE	OVERALL DIMENSIONS	NECK SIZE	CFM RANGE	MAX NC	MAX SP	NOTES				
CD-1	TITUS	CEILING	24"x24"	6"Ø	0 - 110	25	0.1					
	PAS	SUPPLY		8"Ø	111 - 190	25	0.1					
				10"Ø	191 - 280	25	0.1	1,2,3				
				12"Ø	281 - 350	25	0.1	1,2,0				
				14Ø	351 - 450	25	0.1					
				16"Ø	451 - 550	25	0.1					
RG-1	TITUS	CEILING	24"x24"	6"Ø	0 - 100	20	0.1					
	PAR	RETURN		8"Ø	101 - 175	20	0.1					
				10"Ø	176 - 275	20	0.1	122				
				12"Ø	276 - 380	20	0.1	1,2,3				
		14"Ø 381 - 500 20		0.1								
				16"Ø	501 - 570	20	0.1					

1. OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH. 2. MATCH THE BORDER TYPE TO THE CEILING.

DUCT SIZING SCHEDULE *** FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST

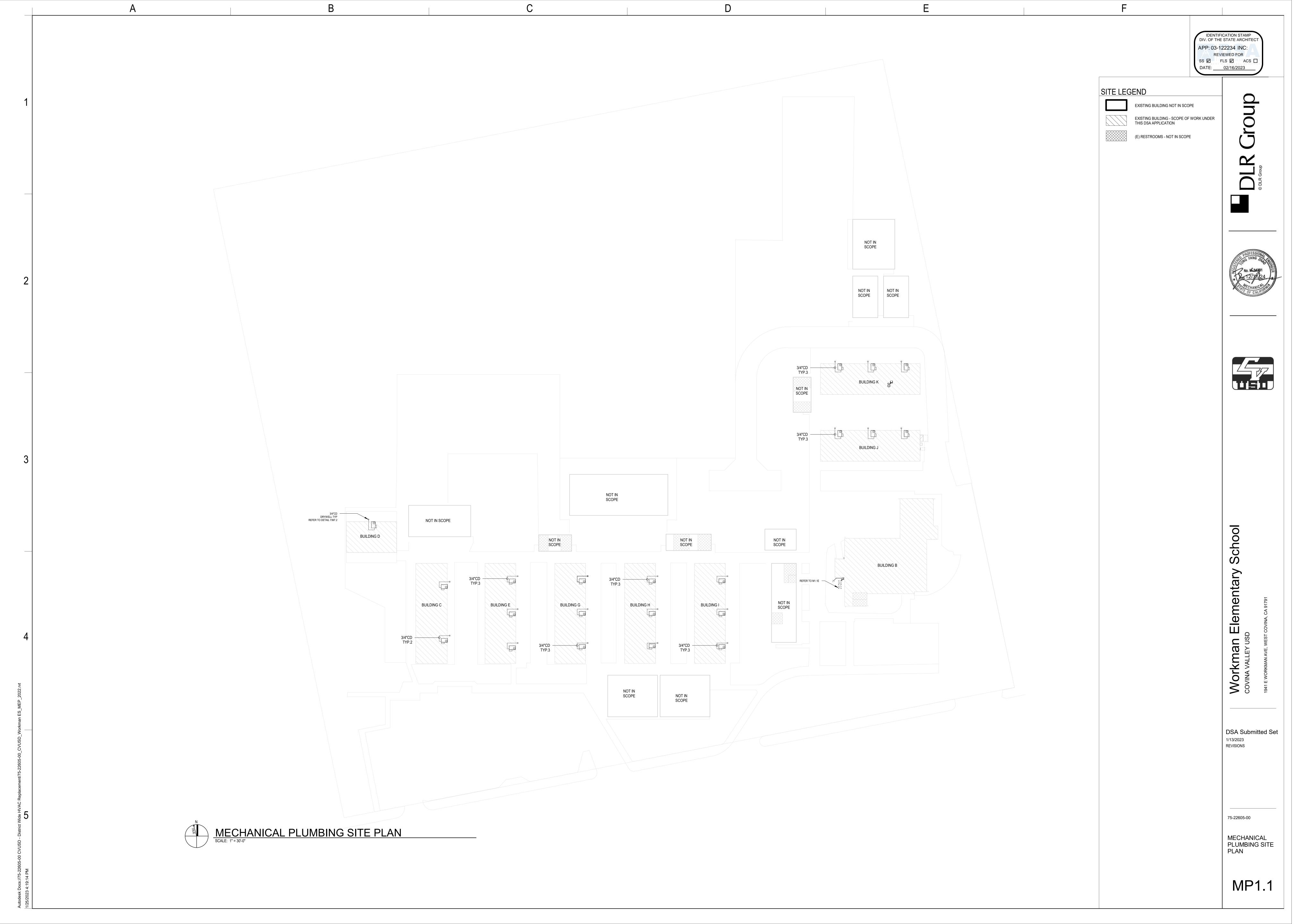
CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT
0-110	6" OR 8" X 4"	1400-1900	18" OR 24" X 12"
101-180	8" OR 10" X 6"	1900-2500	20" OR 24" X 14"
181-270	10" OR 10" X 8"	2500-3300	22" OR 32" X 14"
271-400	10" OR 12" X 8"	3300-4100	24" OR 36" X 14"
401-600	12" OR 12" X 10"	4100-5000	26" OR 40" X 16"
601-900	14" OR 16" X 10"	5000-6200	28" OR 48" X 16"
901-1400	16" OR 18" X 12"	6200-7500	30" OR 48" X 18"

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

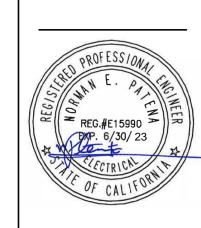
VERIFY ALL DIMENSIONS AT THE SITE, MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

AIR VELOCITY GUIDELINES (FPM)												
LOCATION	NOISE CRITERIA (NC)											
LOCATION	40	35	30	25	20	15						
MAIN SUPPLY DUCT	1700	1500	1000	800	700	600						
MAIN RETURN DUCT	1200	1000	750	600	500	400						
DUCT TO GRILLE SUPPLY	600	500	400	300	250	200						
DUCT TO GRILLE RETURN	600	500	400	300	250	200						

	EXHAUST FAN SCHEDULE																			
NOTES:																				
•																				
).																				
ō.		LOCATION				FAN DA	ATA						ELECT	TRICAL DA	ATA		WEIGHT	BASIS OF D	DESIGN	
5. ID			ТҮРЕ	DESCRIPTION	AIR FLOW (CFM)			DRIVE	M	OTOR		FLA	ELECT MCA	TRICAL DA	VOLT	DU	WEIGHT			NOTES
5. ID	DESCRIPTION	LOCATION NAME	ТҮРЕ	DESCRIPTION	AIR FLOW (CFM) DESIGN	1	ATA RPM	DRIVE TYPE		OTOR RPM	ECM	FLA (A)				PH	WEIGHT (LBS)	BASIS OF D	DESIGN MODEL	NOTES



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 02/16/2023



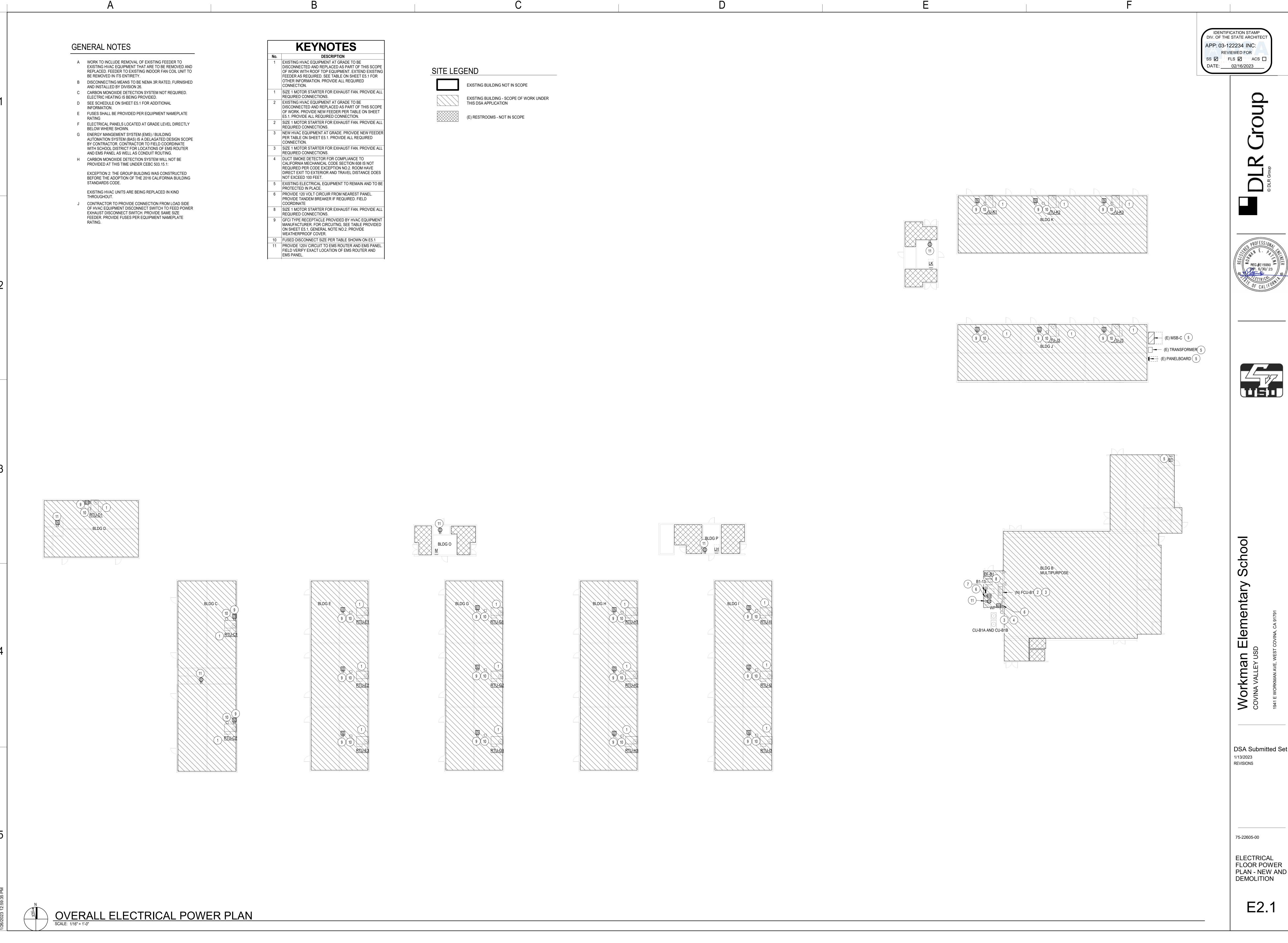


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DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES



<u>CU-B1B</u>

SCOPE OF NEW

WORK

								WORK	/AN A	VE. A	C UNI	T REP	LACEMEN	IT							
EXISTING UNIT							NEW UNIT														
TAGS	ELECTRICAL					TAGS	DIRECT REPLACEMENT?	CFM		ELECTRICAL POWER EXHAUST									ST	NOTES	
	V/PH	MCA	FLA	PANEL/ CKT#	FEEDER SIZE	DISCONNECT		Y/N	CFIVI	V/PH	MCA	MOCP	PANEL/ CKT#	FEEDER SIZE	DISCONNECT	REQUIRED?	Model#	MCA	МОСР	FEEDER SIZE	DISCONNECT
NA	NA	NA	NA	NA	NA	NA	CU-B1A (BLDG. B)	N		460/3	23	30	B-1,3,5	NA	30A (30A FUSE)	NO	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	CU-B1B (BLDG. B)	N		460/3	23	30	B-7,9,11	NA	30A (30A FUSE)	NO	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	FCU-B1 (BLDG. B)	N	8000	460/3	19	30	B-13,15,17	NA	30A (30A FUSE)	NO	NA	NA	NA	NA	NA
CU/FCU-C1 (BLDG C)	240/1	30	18.3	D-1,3	2#10, 1#10GND-0.75"C	30	RTU-C1 (BLDG C)	Υ	1,200	240/1	26	30	D-1,3	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-C2 (BLDG C)	240/1	30	18.3	D-5,7	2#10, 1#10GND-0.75"C	30	RTU-C2 (BLDG C)	Υ	1,200	240/1	26	30	D-5,7	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-D1 (BLDG D)	240/1	30	18.3	M-13,15	2#10, 1#10GND-0.75"C	30	RTU-D1 (BLDG D)	Υ	1,200	240/1	26	30	M-13,15	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	, ,
CU/FCU-E1 (BLDG E)	240/1	30	18.3	M-1,3	2#10, 1#10GND-0.75"C	30	RTU-E1 (BLDG E)	Υ	1,200	240/1	26	30	M-1,3	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-E2 (BLDG E)	240/1	30	18.3	M-5,7	2#10, 1#10GND-0.75"C	30	RTU-E2 (BLDG E)	Υ	1,200	240/1	26	30	M-5,7	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-E3 (BLDG E)	240/1	30	18.3	M-9,11	2#10, 1#10GND-0.75"C	30	RTU-E3 (BLDG E)	Υ	1,200	240/1	26	30	M-9,11	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
U/FCU-G1 (BLDG G)	240/1	30	18.3	M-2,4	2#10, 1#10GND-0.75"C	30	RTU-G1 (BLDG G)	Υ	1,200	240/1	26	30	M-2,4	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
U/FCU-G2 (BLDG G)	240/1	30	18.3	M-6,8	2#10, 1#10GND-0.75"C	30	RTU-G2 (BLDG G)	Υ	1,200	240/1	26	30	M-6,8	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-G3 (BLDG G)	240/1	30	18.3	M-10,12	2#10, 1#10GND-0.75"C	30	RTU-G3 (BLDG G)	Υ	1,200	240/1	26	30	M-10,12	2#10, 1#10GND-0.75"C	· ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
U/FCU-H1 (BLDG H)	240/1	30	18.3	GH-1,3	2#10, 1#10GND-0.75"C	30	RTU-H1 (BLDG H)	Υ	1,200	240/1	26	30	GH-1,3	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-H2 (BLDG H)	240/1	30	18.3	GH-5,7	2#10, 1#10GND-0.75"C	30	RTU-H2 (BLDG H)	Υ	1,200	240/1	26	30	GH-5,7	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-H3 (BLDG H)	240/1	30	18.3	GH-9,11	2#10, 1#10GND-0.75"C	30	RTU-H3 (BLDG H)	Υ	1,200	240/1	26	30	GH-9,11	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	` '
CU/FCU-I1 (BLDG I)	240/1	30	18.3	GH-2,4	2#10, 1#10GND-0.75"C	30	RTU-I1 (BLDG I)	Υ	1,200	240/1	26	30	GH-2,4	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-I2 (BLDG I)	240/1	30	18.3	GH-6,8	2#10, 1#10GND-0.75"C	30	RTU-I2 (BLDG I)	Υ	1,200	240/1	26	30	GH-6,8	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-I3 (BLDG I)	240/1	30	18.3	GH-10,12	2#10, 1#10GND-0.75"C	30	RTU-I3 (BLDG I)	Υ	1,200	240/1	26	30	GH-10,12	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	, ,
CU/FCU-J1 (BLDG J)	240/1	30	18.3	LK-2,4	2#10, 1#10GND-0.75"C	30	RTU-J1 (BLDG J)	Υ	1,200	240/1	26	30	LK-2,4	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	, ,
CU/FCU-J2 (BLDG J)	240/1	30	18.3	LK-6,8	2#10, 1#10GND-0.75"C	30	RTU-J2 (BLDG J)	Υ	1,200	240/1	26	30	LK-6,8	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	,
CU/FCU-J3 (BLDG J)	240/1	30	18.3	LK-10,12	2#10, 1#10GND-0.75"C	30	RTU-J3 (BLDG J)	Υ	1,200	240/1	26	30	LK-10,12	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	,
CU/FCU-K1 (BLDG K)	240/1	30	18.3	LK-1,3	2#10, 1#10GND-0.75"C	30	RTU-K1 (BLDG K)	Υ	1,200	240/1	26	30	LK-1,3	2#10, 1#10GND-0.75"C	, ,	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	, ,
CU/FCU-K2 (BLDG K)	240/1	30	18.3	LK-5,7	2#10, 1#10GND-0.75"C	30	RTU-K2 (BLDG K)	Υ	1,200	240/1	26	30	LK-5,7	2#10, 1#10GND-0.75"C	` '	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
CU/FCU-K3 (BLDG K)	240/1	30	18.3	LK-9,11	2#10, 1#10GND-0.75"C	30	RTU-K3 (BLDG K)	Υ	1,200	240/1	26	30	LK-9,11	2#10, 1#10GND-0.75"C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	30A (20A FUSE)
							EF-B1	N	-	120	12.25	30	BI-13	2#10, 1#10GND-0.75"C	30A (15A FUSE)	_	-	-	-	-	-

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY CIRCUITING AND FEEDER INFORMATION PRIOR TO EQUIPMENT REMOVAL. CONTRACTOR TO PROVIDE REQUIRED ADJUSTMENTS AS NEEDED.
- PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE. FEED FROM SPARE 20A/1P BREAKER IN NEAREST PANEL. ROUTE 2#12+1#12GND IN 1/2" EMT CONDUIT FROM PANEL TO RECEPTACLE.
- POWER NO MORE THAN 10 RECEPTACLES ON ONE CIRCUIT. FIELD VERIFY EXACT LOCATION OF NEAREST PANEL AND ROUTE OF NEW CIRCUIT FROM PANEL TO UNIT RECEPTACLE.
- CONTRACTOR TO DEMOLISH POWER CONNECTION FROM CONDENSING UNITS, FAN COIL UNITS AND CONDENSATE PUMPS. DEMOLITION TO CONSIST OF REMOVAL OF POWER CONNECTION, CABLING, AND CONDUIT BACK TO SOURCE UNLESS NOTED OTHERWISE. FIELD COORDINATE EQUIPMENT MANUFACTURER FOR FAULT CURRENT LIMITING FUSE TYPES

GENERAL SINGLE LINE NOTES

- 1 OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET
- STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT. 2 CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.
- 3 REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
- 4 ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 5 REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "EQ".
- 6 GROUNDING ELECTRODE CONDUCTORS SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM ARE. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.

KEYNOTES

DESCRIPTION FUSED DISCONNECT TO BE PROVIDED BY CONTRACTOR. VARIABLE FREQUENCY DRIVE WITH ON/OFF SWITCH TO BE PROVIDED UNDER DIVISION 23. CONTRACTOR TO MATCH EXISTING BREAKER.

PROFESSIONAL E. PAREG.#E15990 A. PAP. 6/30/23 PAP. 6/30/23 PAP. 6/30/23 PAP. 6/30/23 PAP. 6/30/23

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆

APP: 03-122234 INC:

DATE: 02/16/2023



FEEDER SCHEDULE - COPPER **CONDUIT SIZE** MARK SUFFIX -4W -3W -2W 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 10 10 3/4" 3/4" 3/4"
 1
 8
 10
 3/4"
 3/4"
 3/4"

 1
 8
 10
 3/4"
 3/4"
 3/4"

 1
 6
 10
 1"
 3/4"
 3/4"
 1 6 10 1" 3/4" 3/4" 8 1-1/4" 1-1/4" 1" 1-1/4" 1-1/4" 1" 1 8 1-1/2" 1-1/2" 1-1/4" 1 6 1-1/2" 1-1/2" 1-1/4" 1 1 6 1-1/2" 1-1/2" 1-1/4"
 1
 1/0
 6
 2"
 1-1/2"
 1-1/4"

 1
 2/0
 6
 2"
 1-1/2"
 1-1/4"
 1 4/0 4 2-1/2" 2" 1-1/2" 1 250 4 2-1/2" 2" 1-1/2" 1 350 4 3" 2-1/2" 2" 1 500 3 3-1/2" 3" 2-1/2" 1 600 3 3-1/2" 3" 2-1/2" 2 3/0 3 2" 2" 1-1/2" 2 4/0 2 2-1/2" 2" 1-1/2"
 2
 250
 2
 2-1/2"
 2-1/2"
 2"

 2
 350
 1
 3"
 2-1/2"
 2"
 2 500 1/0 3-1/2" 3" 2-1/2"
 700
 2
 300
 1/0
 3-1/2
 3
 2-1/2

 800
 2
 600
 1/0
 3-1/2"
 3"
 2-1/2"

 1000
 3
 400
 2/0
 3"
 3"
 2-1/2"

 1200
 3
 600
 3/0
 3-1/2"
 3-1/2"
 3"

 1600
 4
 600
 4/0
 3-1/2"
 3"
 3"

 2000
 5
 600
 250
 4"
 3-1/2"
 3"

 2500
 6
 600
 350
 4"
 3-1/2"
 3"

 3000
 8
 500
 400
 3-1/2"
 3"
 2-1/2"
 4000 10 600 500 4" 3-1/2" 3"

ABBREVIATIONS: NEUTRAL GND EQUIPMENT GROUNDING CONDUCTOR -4W FOUR WIRE + GROUND (3Ø,N,GND) -3W THREE WIRE + GROUND (3Ø, GND or 2Ø, N, GND)

-2W TWO WIRE + GROUND

- CONDUCTOR AMPACITIES ARE BASED ON NEC TABLE 310.15(B)(16). CONDUIT SIZES ARE BASED ON A MAXIMUM FILL RATIO OF 40%. SCHEDULE SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS WHERE APPLICABLE. ALL FEEDERS AND BRANCH CIRCUITS SHALL
- INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR. SCHEDULE IS VALID FOR TYPE THHN, THWN-2, AND XHHW-2 CONDUCTORS. SEE SPECIFICATIONS FOR CONDUCTOR TYPES REQUIRED. SCHEDULE IS VALID FOR TYPE EMT, IMC, FMC, LFMC, HDPE, AND RNC-40 RACEWAYS. SEE SPECIFICATIONS FOR RACEWAY APPLICATIONS.

GIVEN FOR SOME SIZES. NOT ALL SIZES USED.

OPTIONAL CONFIGURATIONS (1 OR 2 SETS) ARE

ELECTRICAL DIAGRAMS AND SCHEDULES

75-22605-00

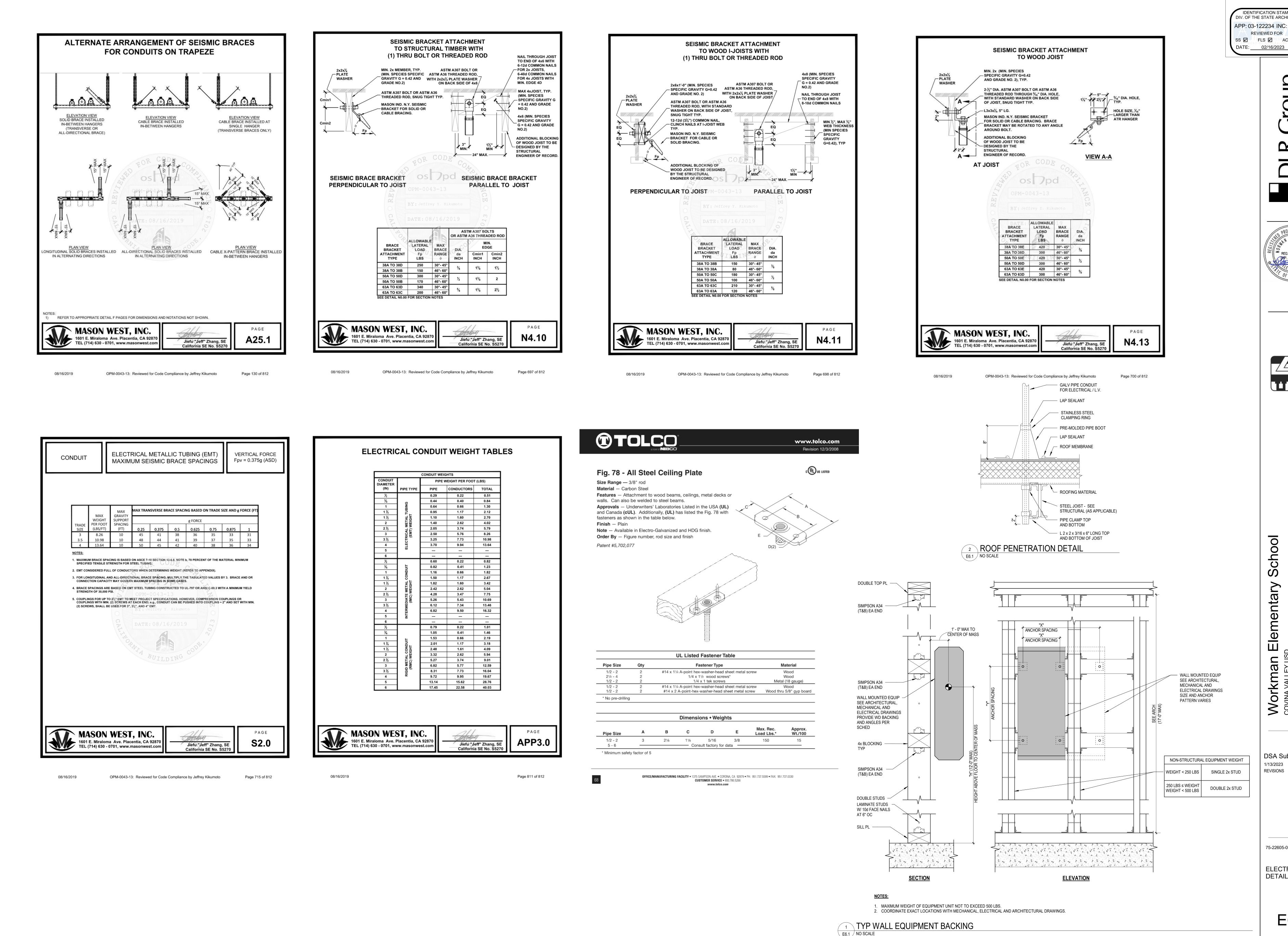
DSA Submitted Set

1/13/2023

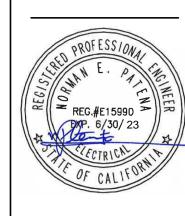
REVISIONS

Workman covina valley use

E5.1



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122234 INC: REVIEWED FOR SS ✓ FLS ✓ ACS □







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Workm COVINA VALLE

DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00

ELECTRICAL **DETAILS**

E6.1