

**MFP COMPONENT ANCHORAGE NOTE**

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

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED ( E.G HARD WIRED ) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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

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

**PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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

- MPCX MD□ PP□ E□ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.  
 MPCX MD□ PP□ E□ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPA#) #\_0098  
 MPC□ MDX□ PP□ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL \_\_\_\_\_ AND CONNECTION LEVEL \_\_\_\_\_ FOR THE PROJECT AND CONDITIONS.

**PROJECT DESCRIPTION:**

REPLACEMENT OF EXISTING 30 YEARS OLD HVAC SYSTEM FOR BUILDING A, B & C.

**SCOPE OF WORK:**

- BUILDING A, B & C (DEMOLITION WORK)
- DEMOLISH EXISTING ROOFTOP PACKAGED GAS/ELECTRIC AC UNITS, ASSOCIATED ROOF CURB, DUCTWORK, SUPPORTS, DIFFUSERS, GRILLES, CONTROLS.  
ALL EXISTING UTILITY PIPES SHALL BE CLEAN, PRESSURE TEST SO IT CAN BE REUSED FOR NEW A/C UNIT CONNECTIONS.
- BUILDING A, B & C (NEW WORK)
- PROVIDE NEW ULTRA HIGH EFFICIENCY ROOFTOP PACKAGED GAS/ELECTRIC AC UNITS, ASSOCIATED NEW VIBRATION ISOLATOR ROOF CURB, DUCT SILENCERS, MIN. 20 GAUGE DUCTWORK, SUPPORTS, DIFFUSERS, GRILLES, DDC CONTROLS.  
PROVIDE PARTIAL NEW UTILITY PIPES TO NEW A/C UNITS.
  - PROVIDE CAMPUS WIDE ENERGY MANAGEMENT SYSTEM OF THE DISTRICT'S PREFERENCE.

**GENERAL NOTES**

- MOUNT WALL MOUNTED THERMOSTATS 4'-0" MAX TO TOP ABOVE FINISHED FLOOR.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF DIFFUSERS, REGISTERS & ACCESS PANELS & OTHER CEILING MOUNTED DEVICES.
- ARROWS AT CEILING DIFFUSERS INDICATE THE AIR THROW PATTERN.
- INSTALLATION OF DUCTWORK AND PIPING SHALL BE COORDINATED WITH OTHER TRADES.
- CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS, LOCATIONS AND DIMENSIONS BEFORE STARTING ANY WORK.
- DUCTS TO COMPLY WITH THE C.M.C 2016 REQUIREMENTS.
- A/C INSTALLER TO PROVIDE SHOP DRAWINGS FOR EXACT SIZES AND LOCATIONS OF EQUIPMENT BASES, FRAMED OPENINGS, SLEEVED OPENINGS AND EQUIPMENT SUPPORTS OR HANGERS.
- A/C INSTALLER SHALL BALANCE AIR SYSTEM TO THE CFM CAPACITY AS INDICATED ON FLOOR PLAN.
- CONCEALED BUILDING SPACES USED AS RETURN AIR PLENUMS SHALL BE IN COMPLIANCE WITH THE C.M.C 2016 REQUIREMENTS.
- APPLIANCES DESIGNED TO BE IN FIXED POSITION SHALL BE SECURELY FASTENED IN PLACE PER SMACNA GUIDE LINES AND GOVERNING CODES.
- LINED DUCT AND PLENUM SIZES SHOWN ARE NET INSIDE DIMENSIONS. INCREASE OUTSIDE DIMENSIONS TO COMPENSATE FOR LINER.
- POWER ON SITE SHALL BE VERIFIED BEFORE ORDERING EQUIPMENT.
- PROVIDE IDENTIFICATION LABELS FOR ALL HVAC EQUIPMENT PER CODE & SPECIFICATIONS.
- ALL SUPPLY & RETURN DUCTS SHALL BE LINED FOR A MINIMUM OF 15 FEET FROM THE A/C UNIT U.N.O. EXCEPT EVAPORATIVE COOLING UNITS WHERE NO LINING SHOULD BE PROVIDED.
- AIR FILTERS SHALL BE A STATE FIRE MARSHAL APPROVED AND LISTED TYPE, PERFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN IN THE STATE FIRE MARSHAL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
- DUCT ENCLOSURES SHALL BE OF TWO-HOUR FIRE-RESISTIVE CONSTRUCTION IN TYPES 1 AND 2 FIRE RATED BUILDINGS. THE DUCT ENCLOSURE SHALL BE SEALED AROUND THE DUCT AT THE POINT OF PENETRATION AND VENTED TO THE EXTERIOR THROUGH WEATHER-PROTECTED OPENINGS. THE ENCLOSURE SHALL BE SEPARATED FROM THE DUCT BY AT LEAST 3 AND NOT MORE THAN 12 INCHES AND SHALL SERVE A SINGLE GREASE EXHAUST DUCT SYSTEM (SEC. 507.2, CMC 2016). FIRE RATED DOORS SHALL BE PROVIDED IN RATED ENCLOSURE TO ACCESS DUCT CLEANOUTS.
- VERIFY THAT PROPER ACCESS IS AVAILABLE FOR ALL CSFD'S FOR PERIODIC INSPECTION & MAINTENANCE. ALL COMBINATION SMOKE & FIRE DAMPERS SHALL BE MADE OPERABLE AFTER THE REQUIRED TESTING. REPLACE ALL PARTS OR UNITS DAMAGED DURING THE TESTING. COMPLETE MANUFACTURER'S PERIODIC MAINTENANCE INSTRUCTION, VERIFY WITH THE LOCAL FIRE DEPARTMENT (INSPECTOR). ALL HIS/HER REQUIREMENTS & INCLUDE THE REQUIREMENTS IN THE PROJECT MAINTENANCE & OPERATION MANUAL.
- FOR THE ROOMS WITH EXISTING EXPOSED DUCTWORK BELOW NEW INSTALLED CEILING, MECHANICAL CONTRACTOR SHALL COORDINATE THE DUCT SUPPORTS WITH GENERAL CONTRACTOR TO AVOID ANY CONFLICT. TEMPORARILY REMOVE THE SUPPORTS IF IT'S REQUIRED. PROVIDE NEW SUPPORTS PER SMACNA DUCT CONSTRUCTIONS STANDARDS IF THE EXISTING SUPPORTS ARE NOT IN GOOD CONDITION.

**PLUMBING LEGEND**

ALL ITEMS SHOWN IN THIS LEGEND NOT NECESSARILY USED ON THE DRAWINGS		
SYMBOL	ABBREVIATION	DESCRIPTION
		RELIEF VALVE
	TP	TRAP PRIMER
	P.G.	PRESSURE GAUGE
		THERMOMETER
		STRAINER
		INCREASER / DECREASER
	G.V. / S.O.V.	GATE VALVE / SHUTOFF VALVE
	C.V.	CHECK VALVE
	B.V.	BALANCING VALVE / GLOBE VALVE
	G.C.	GAS COCK
	U.	UNION
	SOV	SHUT-OFF VALVE
	CW	DOMESTIC COLD WATER
	V	VENT
	G	GAS (8" WATER COLUMN)
	U.L.	UNDERWRITERS LABORATORIES
	U.O.S.	UNDER OTHER SECTION
	B.F.P.	BACK FLOW PREVENTER
	S.P.V.	SUMP PUMP VENT
	COD	CONDENSATE OVER FLOW DRAIN
	U.T.R.	UP TO ROOF

**CONTROL LEGEND**

- ALL ITEMS INDICATED IN THIS LEGEND ARE NOT NECESSARILY USED ON THE DRAWINGS.
- CONDUIT, LINE VOLTAGE WIRING & DEVICES TO BE PROVIDED UNDER DIVISION 16.
- LOW VOLTAGE (LESS THAN 50 VOLTS) WIRING, CONDUIT & DEVICES TO BE PROVIDED UNDER DIVISION 15.

SYMBOL	DESCRIPTION
	ITEM TO BE FURNISHED AND INSTALLED UNDER ELECTRICAL DIVISION.
	MAGNETIC STARTER
	NORMALLY OPEN ELECTRICAL CONTACT
	NORMALLY CLOSED ELECTRICAL CONTACT
	ELECTRICAL COIL RELAY
	OVERLOAD PROTECTION
	PILOT LIGHT
	ON - OFF SWITCH
	HAND - OFF - AUTOMATIC SWITCH
	DISCONNECT SWITCH (PROVIDE FUSED TYPE U.N.O.)
	ELECTRIC SWITCHING DEVICE
	FLOW SWITCH
	TEMPERATURE SWITCH
	FLOAT SWITCH
	TIME DELAY SWITCH
	SENSOR(TEMPERATURE, HUMIDITY ETC.)
	PRESSURE SENSOR
	SMOKE DETECTOR (SWITCH ACTIVATED BY)
	SINGLE PHASE MOTOR W/BUILT-IN OVERLOAD PROTECTION
	ON EMERGENCY POWER
	MOTOR CONTROL CENTER
	CONTROL PANEL
	LINE VOLTAGE
	LOW VOLTAGE
	SLASHES INDICATE NO. OF WIRES
	ACTUATOR FOR VALVE OR DAMPER
	CONTROL AIR
	CIRCUIT BREAKER

**CONTROL ABBREVIATIONS**

ABBREV.	DESCRIPTION
AO, AI	ANALOG OUTPUT, ANALOG INPUT
DO, DI	DIGITAL OUTPUT, DIGITAL INPUT
FMS	FACILITY MANAGEMENT SYSTEM
N.C./N.O.	NORMALLY CLOSED, COMMON, NORMALLY OPEN
PC	PROGRAMMABLE CONTROLLER
U.P.S	UNINTERRUPTED POWER SUPPLY
U.O.N	UNLESS OTHERWISE NOTED

**HVAC SHEET INDEX**

NO.	SHEET NO.	SHEET DESCRIPTION
1	M0.01	LEGENDS, NOTES & SHEET INDEX
2	M0.02	SCHEDULES
3	M0.03	TITLE - 24
4	M0.04	TITLE - 24
5	M0.05	TITLE - 24
6	M0.06	TITLE - 24
7	MAD101	MECHANICAL DEMOLITION FLOOR PLAN - BUILDING A
8	MA101	MECHANICAL NEW FLOOR PLAN - BUILDING A
9	MAD102	MECHANICAL DEMOLITION ROOF PLAN - BUILDING A
10	MA102	MECHANICAL NEW ROOF PLAN - BUILDING A
11	MAD101	MECHANICAL DEMOLITION PLANS - BUILDING B
12	MB101	MECHANICAL NEW PLANS - BUILDING B
13	MCD101	MECHANICAL DEMOLITION PLANS - BUILDING C
14	MC101	MECHANICAL NEW PLANS - BUILDING C
15	M2.00	DETAILS
16	M2.01	DETAILS
17	M2.02	DETAILS
18	M2.03	DETAILS
19	M3.00	CONTROLS
20	M3.01	CONTROLS
21	M3.02	CONTROLS
22	M3.03	CONTROLS

**EQUIPMENT TAGGING DESCRIPTOR:**

- INDOOR FAN COIL UNIT  
FC - INDOOR FAN COIL UNIT  
4 - UNIT CAPACITY  
1 - UNIT I.D. NO.
- SPLIT SYSTEM CONDENSING UNIT  
CU - UNIT DESCRIPTION  
1 - UNIT I.D. NO.
- SPLIT HEAT PUMP  
SHP - UNIT DESCRIPTION  
1 - UNIT I.D. NO.
- ROOF EXHAUST  
EF - UNIT DESCRIPTION  
1 - UNIT I.D. NO.
- SINGLE SPLIT INDOOR UNIT  
FCU - UNIT DESCRIPTION  
1 - UNIT I.D. NO.
- ROOFTOP PACKAGED GAS/ELECTRIC A/C UNIT  
AC - UNIT DESCRIPTION  
1 - UNIT I.D. NO.

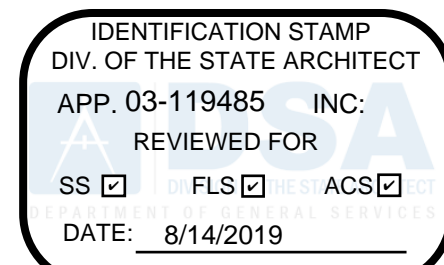
**MECHANICAL LEGEND**

ALL ITEMS INDICATED IN THIS LEGEND ARE NOT NECESSARILY USED ON THE DRAWINGS.

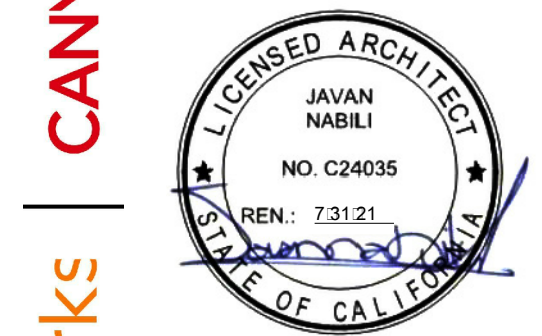
SYMBOL	DESCRIPTION
	MATCH LINE
	EQUIPMENT DESIGNATION
	DETAIL REFERENCE
	NOTE REFERENCE
	POINT OF CONNECTION
	POINT OF REMOVAL
	OUTSIDE AIR, SUPPLY, RETURN, EXHAUST
	SUPPLY AIR DUCT DOWN
	RETURN OR OUTSIDE AIR DUCT DOWN
	EXHAUST AIR DUCT DOWN
	SUPPLY AIR DUCT UP
	RETURN OR OUTSIDE AIR DUCT UP
	EXHAUST AIR DUCT UP
	LINED DUCT
	TURNING VANES
	TRANSITION
	FLEXIBLE DUCT
	FLEXIBLE DUCT CONNECTION
	BACKDRAFT DAMPER
	MANUAL VOLUME DAMPER
	ZONE CONTROL DAMPER (VVT SYSTEM)
	FIRE DAMPER
	COMBINATION SMOKE & FIRE DAMPER
	SMOKE DETECTOR
	LOUVER (EX; 2.5 FT)
	UNDERCUT DOOR 3/4" ABOVE FINISHED FLOOR
	ACCESS DOOR, ACCESS PANEL
	12x12 CEILING DIFFUSER, REGISTER, GRILLE. . ARROWS INDICATE THROW PATTERN.
	12x12 TOP REGISTER, GRILLE. BOTTOM REGISTER, GRILLE.
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	BRINE SUPPLY
	BRINE RETURN
	CONDENSATE DRAIN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	HOT WATER SUPPLY FOR SPACE HEATING
	HOT WATER RETURN FOR SPACE HEATING
	CONDENSATE DRAIN (INDIRECT)
	UNION, FLANGE
	SHUT-OFF VALVE (GATE VALVE)
	BALANCING VALVE (GLOBE VALVE)
	FLOW LIMITING VALVE
	COCK
	STRAINER
	CHECK VALVE
	PRESSURE GAUGE
	BUTTERFLY VALVE
	GAUGE COCK
	GAS (8" WATER COLUMN)
	THERMOMETER
	MANUAL AIR VENT
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	3 WAY CONTROL VALVE
	2 WAY CONTROL VALVE
	PIPE ANCHOR
	PIPE GUIDE
	FLEXIBLE PIPE CONNECTION
	ZONE TEMPERATURE SENSOR, HUMIDITY SENSOR, SWITCH, TEMPERATURE SENSOR
	DUCT DROP IN DIRECTION OF AIR FLOW
	DUCT RISE IN DIRECTION OF AIR FLOW
	MANUAL BYPASS TIMER
	EXISTING HVAC DUCTWORK/EQUIPMENT TO REMAIN
	EXISTING HVAC DUCTWORK/EQUIPMENT TO BE REMOVED

**MECHANICAL ABBREVIATIONS**

ABBREV.	DESCRIPTION
10'-0"x0'-6" LD.LG.	10 FT. LENGTH X 6 IN. WIDTH LINEAR DIFFUSER, LINEAR GRILLE.
ABV.	ABOVE
AFF	ABOVE FINISHED FLOOR
BEL	BELOW
BHP	BRAKE HORSE POWER
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUED, CONTINUATION
DN.	DOWN
(E)	EXISTING
E.S.P	EXTERNAL STATIC PRESSURE
FPM	FEET PER MINUTE
FS	FLOOR SINK
HP	HORSE POWER
LVR.	LOUVER
N/A	NOT APPLICABLE
N/R	NOT REQUIRED
O.A.R.	OWNER'S AUTHORIZED REPRESENTATIVE
RPM	REVOLUTIONS PER MINUTE
TYP.	TYPICAL
U.O.N	UNLESS OTHERWISE NOTED
V-ø	VOLT-PHASE
W/	WITH
W/O	WITHOUT
%EFF	EFFICIENCY (%)



155 S. Fair Oaks, 2nd Floor,  
Pasadena California 91105  
t 626.666.6906  
f 626.666.3940  
www.cannondesign.com



COPYRIGHT 2018  
No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNONDESIGN.



**SOUND MITIGATION PROGRAM**

**OAK STREET ELEMENTARY SCHOOL**  
633 South Oak Street Inglewood, CA 90301

**INGLEWOOD UNIFIED SCHOOL DISTRICT**

PROJECT NUMBER	<b>10292</b>
DRAWN: N.W.S.W.L.S.N	
CHECKED: J.S.N.W	
ISSUE/REVISION:	
8/21/2018	30% SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD-DSA SUBMITTAL
03/15/2019	DSA APPROVAL

**LEGENDS, NOTES & SHEET INDEX**

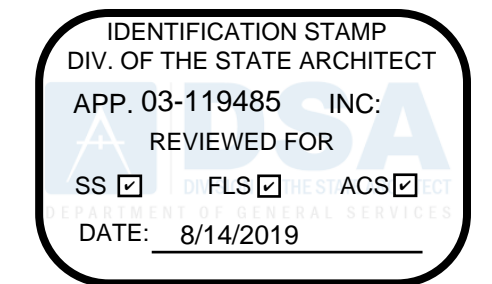
**M0.01**

DUCT SILENCER		
TAG	DS-1	DS-2
SPEC SECTION	23 0548	23 0548
SERVICE	AC UNITS	AC UNITS
LOCATION	INSIDE S.A DUCT & R.A DUCT	INSIDE S.A DUCT & R.A DUCT
DESIGN BASE MANUFACTURER & MODEL	IAC LFM	IAC LFM
DIMENSIONS (IN) W x H x L	36 x 24 x 60	24 x 18 x 36
CFM	4,000	2,000
SPD (IN WG)	0.11	0.19
DYNAMIC INSERTION LOSS / SELF NOISE POWER LEVEL (DECIBEL RE 10-12 WATTS)	63	8
	125	13
	250	23
	500	29
	1000	28
	2000	17
4000	14	
8000	13	
OPERATING WEIGHT (LBS)	136	106
REMARKS	* PROVIDE WEATHER-PROOF JACKET.	

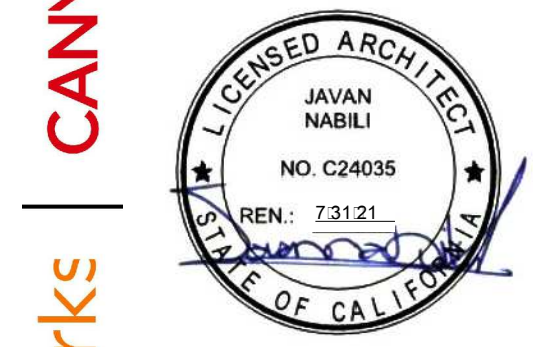
SINGLE PACKAGED ROOFTOP GAS HEATING ELECTRIC COOLING SINGLE ZONE VAV UNIT										
TAG	AC-10	AC-11	AC-8 & AC-9	AC-18 & AC-20	AC-5, 12, 13, 14, 16, 17, 19, 21, & 23	AC-1, 2, 3, 4, 6, 7, 15 & 22	AC-24 & 25			
SPEC. SYMBOL & SECTION	2.02 / 238000	2.02 / 238000	2.02 / 238000	2.02 / 238000	2.02 / 238000	2.02 / 238000	2.02 / 238000			
SERVICE	SEE FLOOR PLAN	SEE FLOOR PLAN	SEE FLOOR PLAN	SEE FLOOR PLAN	SEE FLOOR PLAN	SEE FLOOR PLAN	SEE FLOOR PLAN			
LOCATION	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF			
TYPE	SINGLE ZONE VAV	SINGLE ZONE VAV	SINGLE ZONE VAV	SINGLE ZONE VAV	SINGLE ZONE VAV	SINGLE ZONE VAV	SINGLE ZONE VAV			
DESIGN BASE MANUFACTURER & MODEL	CARRIER 48VLC204003	CARRIER 48VLC206003	CARRIER 48HCD042A6A1A4A0	CARRIER 48VLC206006	CARRIER 48HCD052A6A1A4A0	CARRIER 48HCD062A6A1A4A0	CARRIER 48HCD122A6A1A4A0			
COOLING	CAPACITY (BTU/H)	17,200	21,000	28,300	29,500	38,100	48,000			
	SENSIBLE TOTAL	23,000	28,600	37,300	40,000	50,600	60,400			
	AMBIENT TEMP. (°F)	95	95	95	95	95	95			
	EWB (°F)	67	67	67	67	67	67			
	EDB (°F)	80	80	80	80	80	80			
	SEER	14	14	15	14	15.6	15.2			
	EER	11.5	11.5	12.5	11.5	13	12.45			
	INPUT (BTU/H)	40,000	60,000	56,000	60,000	56,000	56,000			
	OUTPUT (BTU/H)	33,000	49,000	41,000	49,000	41,000	41,000			
	TOTAL UNIT CFM	800	1,000	1,200	1,350	1,600	2,000			
FAN	EXT. S.P. (IN. WG)	0.6	0.6	0.8	0.6	0.8	1.1			
	MOTOR BHP	0.26	0.26	0.84	0.34	0.95	1.38			
	MERV NO.	13	13	13	13	13	13			
FILTER	QTY	2	2	2 / 1	2 / 1	1 / 1	4 / 1			
	SIZE LXWXT (IN)	20x 12 x 2	20x 12 x 2	16 x 25 x 2 / 20 x 24 x 1	24 x 14 x 2 / 24 x 15 x 2	16 x 16 x 2 / 16 x 24 x 1	16 x 16 x 2 / 20 x 24 x 1			
	UNIT ELECTRICAL DATA	V 208	208	460	460	460	460			
POWER EXHAUST	φ	1	1	3	3	3	3			
	Hz	60	60	60	60	60	60			
	MCA	15.2	18.5	11	10.7	12	14			
	MOCP	20	25	15	15	15	20			
OPERATING WEIGHT (LBS)	V	N/A	N/A	N/A	N/A	N/A	N/A			
	φ	N/A	N/A	N/A	N/A	N/A	N/A			
	Hz	N/A	N/A	N/A	N/A	N/A	N/A			
	FLA	N/A	N/A	N/A	N/A	N/A	N/A			
HP	N/A	N/A	N/A	N/A	N/A	N/A				
OUTDOOR AIR	CFM / % TOTAL DCV (MIN. O.A SETTING)	100 / 13%	60 / 6%	180 / 15%, 100 / 8.3%	140 / 10.4%, 150 / 11.1%	150 / 9.4%	180 / 9.0%			
	CFM / % TOTAL COIL (MAX. O.A SETTING)	150 / 19%	100 / 10%	300 / 25%, 200 / 17%	450 / 34%, 450 / 34%	450 / 28.1%	500 / 25%			
VIBRATION ISOLATORS	TYPE	VIBREX RMU-EQ-SH-1	VIBREX RMU-EQ-SH-1	VIBREX RMU-EQ-SH-1	VIBREX RMU-EQ-SH-1	VIBREX RMU-EQ-SH-1	VIBREX RMU-EQ-SH-1			
	DEFLECTION (IN)	2	2	2	2	2	2			
OUTDOOR SOUND DATA (HZ)	63	-	-	78.2	-	84.7	87.5			
	125	54.3	58.1	78	54.4	83.6	82.5			
	250	61.3	59.4	74.2	59	77.1	76.1			
	500	55.2	61.2	73.3	61.2	74.6	73.6			
	1000	54.8	64.1	70.6	62.1	72.3	71.3			
	2000	57.1	59.2	66	58.9	68.3	67.1			
	4000	53.6	56.8	62.4	53.5	64.7	64.1			
	8000	43.1	50.9	56.9	46.7	60.9	60			
PLBG. REQD	YES	YES	YES	YES	YES	YES	YES			
REFERENCE ANCHORAGE DETAIL	#3, 4, 5/M2.02	#3, 4, 5/M2.02	#3, 4/M2.01 & #5/M2.02	#1, 2/M2.03 & #5/M2.02	#3, 4/M2.01 & #5/M2.02	#3, 4/M2.01 & #5/M2.02	#6, 7/M2.00 & #5/M2.02			
REFERENCE CONTROL DETAIL	#1, 2, 3/M3.01	#1, 2, 3/M3.01	#1, 2, 3/M3.02	#1, 2, 3/M3.01	#1, 2, 3/M3.01	#1, 2, 3/M3.01	#1, 2, 3/M3.01			
REMARKS	<ul style="list-style-type: none"> <li>UNIT PERFORMANCE PER CATALOG STANDARD CONDITIONS. SEE FLOOR PLANS FOR PROJECT SPECIFIC REQUIREMENTS.</li> <li>PROVIDE HIGH CAPACITY FILTERS W/CLOGGED FILTER SWITCH.</li> <li>PROVIDE FACTORY INSTALLED UNIT MONITORING CONTROLLER W/INTERFACE DEVICE (IF REQUIRED).</li> <li>PROVIDE M.W. SAUSSE SPRING ISOLATORS W/INTEGRAL SEISMIC RESTRAINTS INSIDE CURB, COMPRESSOR CYCLE DELAY TIMER, COIL GARDS, LOW NOX KIT, FLUE EXTENSION, INSULATION KIT AND MODULATING ECONOMIZER HOOD W/BAROMETRICDAMPER.</li> </ul>									

VARIABLE VOLUME AND TEMPERATURE (VVT) SYSTEM									
TAG	ZD-1	ZD-2	ZD-3	ZD-4	ZD-5	ZD-6	CD-1	CD-2	
DESIGN BASE MANUFACTURER & MODEL	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	CARRIER VVT ZONE II, OPN-VVTZC-02	
LOCATION	BUILDING-A	BUILDING-A	BUILDING-A	BUILDING-A	BUILDING-A	BUILDING-A	BUILDING-A	BUILDING-A	
AREA SERVED	OFFICE A31	NURSE ROOM A30	ENTRY A1	NURSE A32	VICE PRINCIPAL A28, MAIL ROOM A27	PRINCIPAL A29	N/A	N/A	
UNIT SERVICE	AC-8	AC-8	AC-8	AC-8	AC-9	AC-9	AC-8	AC-9	
CFM	250	400	150	400	600	600	900	900	
REMARKS	SEE #1, 2, & 3/M3.02 FOR MORE INFORMATION. SEE FLOOR PLANS FOR DUCT SIZES. PROVIDE ONE ZONE CONTROLLER PER ZONE. CONTRACTOR TO PROVIDE STEP-DOWN TRANSFORMER TO THE CONTROLLER PER MANUFACTURER'S RECOMMENDATION.								

EXHAUST FANS													
TAG	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8	EF-9	EF-10	EF-11	EF-12	EF-13
SPEC. REF. & SECTION	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000	23-8000
SERVICE	STORAGE A36, GIRLS A37	STORAGE ROOMS	TOILET A33	WOMEN A25, MEN A26	SUPPLY A34	CUSTODIAN A21	STORAGE A19, BOYS A20	TOILET B17, STOR. B18, STOR. B19, STOR. B20	STAFF B15, CUST. B16	BOYS B13, GIRLS B14	BOYS C5, GIRLS C6	MECHANICAL C2, STORAGE C3, CUSTODIAN C8	STORAGE C9, TOILET C11
LOCATION	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	BUILDING ROOF	SEE FLOOR PLAN	BUILDING ROOF
TYPE	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	INLINE CABINET FAN	UPBLAST CENTRIFUGAL ROOF EXHAUSTER
DESIGN BASE MANUFACTURER & MODEL	GREENHECK CUE-090-VG	GREENHECK CUE-080-VG	GREENHECK CUE-080-VG	GREENHECK CUE-080-VG	GREENHECK CUE-080-VG	GREENHECK CUE-080-VG	GREENHECK CUE-080-VG	GREENHECK CUE-080-VG	GREENHECK CUE-070-VG	GREENHECK CUE-090-VG	GREENHECK CUE-080-VG	GREENHECK CSP-A700-VG	GREENHECK CUE-080-VG
CFM	480	200	100	200	150	200	480	400	150	420	300	250	300
EXT. SP (IN. WG)	0.5	0.5	0.25	0.5	0.25	0.5	0.5	0.5	0.35	0.5	0.5	0.5	0.5
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOTOR	HP	1/10	1/10	1/15	1/10	1/15	1/10	1/10	1/15	1/10	1/10	216 W (INPUT WATTS)	1/10
	VOLT	115	115	115	115	115	115	115	115	115	115	115	115
	φ	1	1	1	1	1	1	1	1	1	1	1	1
	RPM	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1100 (FAN RPM)	1725
OPERATING WEIGHT (LBS)	46	49	38	49	38	49	46	46	38	46	49	39	49
VIBRATION ISOLATORS	TYPE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RMXA-1C-VLS	N/A
	DEFLECTION (IN)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A
PLBG. REQUIRED	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
REFERENCE ANCHORAGE DETAIL	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#5/M2.03	#6/M2.03	#5/M2.03
REFERENCE CONTROL DETAIL	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03	#4/M2.03
REMARKS	PROVIDE MANUFACTURER PITCH CURB AND BACKDRAFT DAMPER.												



155 S. Fair Oaks, 2nd Floor.  
Pasadena California 91105  
t 626.666.6906  
f 626.666.3540  
www.cannondesign.com



COPYRIGHT 2018  
No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNONDESIGN.



CORDOBA CORPORATION  
10000 BAYVIEW DRIVE, SUITE 100, SAN DIEGO, CA 92121



MAROKO & SHWE, INC.  
Mechanical Engineers  
1106-B W. MAGNOLIA BLVD.,  
BUREAU PARK, CA 91506  
(918) 840-0280 FAX (918) 840-0284

SOUND MITIGATION PROGRAM

OAK STREET ELEMENTARY SCHOOL  
633 South Oak Street, Inglewood, CA 90301

INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER: 10292  
A# 03-119485

DRAWN: N.W. S.W.L. S.N.

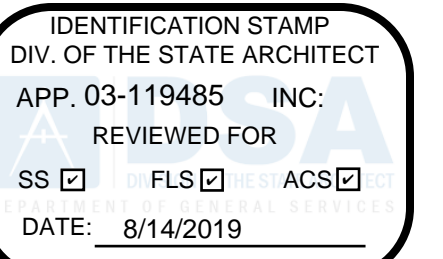
CHECKED: J.S.N.W

ISSUE/REVISION:

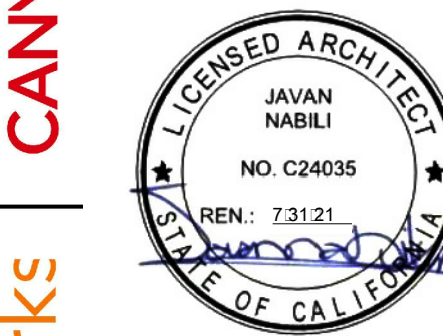
8/21/2018 30% - SCHEMATIC DESIGN  
10/10/2018 50% CD SUBMITTAL  
11/15/2018 100% CD - DSA SUBMITTAL  
05/23/2019 DSA APPROVAL

SCHEDULES

M0.02



155 S. Fair Oaks, 2nd Floor, Pasadena California 91105  
t 626.666.8906  
f 626.666.3940  
www.cannondesign.com



COPYRIGHT 2018  
No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNONDESIGN.



CORDOBA CORPORATION  
500 FINEWOODS - SUITE 100 - WESTLAKE, CA 91361



SOUND MITIGATION PROGRAM  
OAK STREET ELEMENTARY SCHOOL  
633 South Oak Street Inglewood, CA 90301  
A PROJECT FOR:  
INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER  
**10292**  
DRAWN: N.W.S.W.L.S.N  
CHECKED: J.S.N.W.N  
ISSUE/REVISION:  
8/21/2018 30% SCHEMATIC DESIGN  
10/10/2018 50% CD SUBMITTAL  
11/15/2018 100% CD - DSA SUBMITTAL  
03/15/2019 DSA APPROVAL

TITLE - 24

M0.03

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRC/NRCA/NRCV) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G and H in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)  
1. Total Conditioned Floor Area: 23,416 ft²  
2. Total Unconditioned Floor Area: 3,975 ft²  
3. Addition Conditioned Floor Area: 0 ft²  
4. Addition Unconditioned Floor Area: 0 ft²  
7. Opaque Surfaces & Orientation  
8. Total Gross Surface Area: 3,350 ft²  
9. Total Fenestration Area: 378 ft²  
10. Window to Wall Ratio: 11.3%

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY  
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.  
The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.

Building Component: Envelope, Mechanical  
Compliance Path: NRCC-ENV-01-E, NRCC-MCH-02-A, NRCC-MCH-03-A, NRCC-MCH-04-H, NRCC-MCH-05-A, NRCC-MCH-06-A, NRCC-MCH-07-A, NRCC-MCH-08-A, NRCC-MCH-09-A, NRCC-MCH-10-A, NRCC-MCH-11-A, NRCC-MCH-12-A, NRCC-MCH-13-A, NRCC-MCH-14-A, NRCC-MCH-15-A, NRCC-MCH-16-A, NRCC-MCH-17-A, NRCC-MCH-18-A, NRCC-MCH-04-H  
Compliance Forms: NRCC-LTI-01 / 02 / 03 / 04 / 05-E, NRCC-LTO-01 / 02 / 03-E, NRCC-LTS-01-E, NRCC-STH-01-E, NRCC-COR-01 / 02 / 03 / 05-E, NRCC-COR-01 / 02 / 04 / 05-E, NRCC-ELC-01-E, NRCC-SRA-01 / 02-E, NRCC-PRC-01-E, NRCC-PRC-02-E, NRCC-PRC-05-E, NRCC-PRC-06/07/08-E, NRCC-PRC-10-E, NRCC-PRC-11-E

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
A. PROJECT GENERAL INFORMATION  
1. Project Location (city): Inglewood  
2. CA Zip Code: 90301  
3. Climate Zone: 8  
4. Total Conditioned Floor Area in Scope: 23,416 ft²  
5. Total Unconditioned Floor Area: 3,975 ft²  
6. Total # of Stories (Habitable Above Grade): 1  
7. Total # of dwelling units: 0  
8. Standards Version: Compliance Software (version): EnergyPro 7.1  
9. Weather File: FULLERTON\_722976\_CZ2010.epw  
10. Building Orientation (deg): [N] 0 deg  
11. Permitted Scope of Work: ExistingAlteration  
12. Building Type(s): Nonresidential  
13. Gas Type: NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr) § 140.1  
BUILDING COPLIES  
1. Energy Component, 2. Standard Design (TDV), 3. Proposed Design (TDV), 4. Compliance Margin (TDV), 5. Percent Better than Standard  
Space Heating: 12.43, 5.14, 7.29, 58.6%  
Space Cooling: 155.52, 109.50, 46.02, 29.6%  
Indoor Fans: 46.08, 15.51, 30.57, 66.3%  
Heat Rejection: --, --, --, --  
Pumps & Misc.: 1.49, --, 1.49, --  
Domestic Hot Water: 17.59, 17.59, --, 0.0%  
Indoor Lighting: 59.50, 59.50, --, 0.0%  
COMPLIANCE TOTAL: 292.61, 207.24, 85.37, 29.2%  
Receptacle: 73.86, 73.86, 0.0, 0.0%  
Process: 41.01, 41.01, 0.0, 0.0%  
Other Ltg: --, --, --, --  
TOTAL: 407.48, 322.11, 85.4, 21.0%

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
J. FENESTRATION ASSEMBLY SUMMARY § 110.6  
1. Fenestration Assembly Name / Tag or I.D.: Double Metal Clear  
2. Fenestration Type / Product Type / Frame Type: Vertical Fenestration, Fixed Window, Metal Framing  
3. Certification Method: Default Performance  
4. Assembly Method: Site Built  
5. Area (ft²): 2204  
6. Overall U-Factor: 0.71  
7. Overall SHGC: 0.73  
8. Overall VT: 0.77  
9. Status: E  
10. Pass:   
11. Fail:   
Taking compliance credit for fenestration shading devices? (If "Yes," see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7 / § 140.3  
1. Surface Name: R-13 Wall6  
2. Surface Type: Exterior Wall  
3. Area (ft²): 17042  
4. Framing Type: Wood  
5. Cavity R-Value: 13  
6. Continuous R-Value: NA  
7. U-Factor / F-Factor / C-Factor: U-Factor: 0.102  
8. Status: E  
9. Pass:   
10. Fail:   
11. Surface Name: Slab On Grade22  
12. Surface Type: Underground Floor  
13. Area (ft²): 27391  
14. Framing Type: NA  
15. Cavity R-Value: 0  
16. Continuous R-Value: NA  
17. U-Factor / F-Factor / C-Factor: F-Factor: 0.730  
18. Status: E  
19. Pass:   
20. Fail:   
21. Surface Name: R-30 Roof Attic24  
22. Surface Type: Roof  
23. Area (ft²): 27391  
24. Framing Type: Wood  
25. Cavity R-Value: 30  
26. Continuous R-Value: NA  
27. U-Factor / F-Factor / C-Factor: U-Factor: 0.040  
28. Status: E  
29. Pass:   
30. Fail:   
31. Surface Name: R-0 Wall Metal Stud94  
32. Surface Type: Interior Wall  
33. Area (ft²): 397  
34. Framing Type: NA  
35. Cavity R-Value: 0  
36. Continuous R-Value: 18  
37. U-Factor / F-Factor / C-Factor: U-Factor: 0.048  
38. Status: E  
39. Pass:   
40. Fail:

L. ROOFING PRODUCT SUMMARY § 140.3  
1. Product Type: R-30 Roof Attic24  
2. Product Density (lb/ft³): 6.23854  
3. Aged Solar Reflectance: 0.08  
4. Thermal Emittance: 0.75  
5. SRI: NA  
6. Cool Roof Credit: No  
7. Roofing Product Description: NA  
8. Status: E  
9. Pass:   
10. Fail:

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRC/NRCA/NRCV) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G and H in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component: Envelope, Mechanical  
Compliance Path: NRCC-ENV-01-E, NRCC-MCH-02-A, NRCC-MCH-03-A, NRCC-MCH-04-H, NRCC-MCH-05-A, NRCC-MCH-06-A, NRCC-MCH-07-A, NRCC-MCH-08-A, NRCC-MCH-09-A, NRCC-MCH-10-A, NRCC-MCH-11-A, NRCC-MCH-12-A, NRCC-MCH-13-A, NRCC-MCH-14-A, NRCC-MCH-15-A, NRCC-MCH-16-A, NRCC-MCH-17-A, NRCC-MCH-18-A, NRCC-MCH-04-H  
Compliance Forms: NRCC-LTI-01 / 02 / 03 / 04 / 05-E, NRCC-LTO-01 / 02 / 03-E, NRCC-LTS-01-E, NRCC-STH-01-E, NRCC-COR-01 / 02 / 03 / 05-E, NRCC-COR-01 / 02 / 04 / 05-E, NRCC-ELC-01-E, NRCC-SRA-01 / 02-E, NRCC-PRC-01-E, NRCC-PRC-02-E, NRCC-PRC-05-E, NRCC-PRC-06/07/08-E, NRCC-PRC-10-E, NRCC-PRC-11-E

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)  
1st Space Cooling: Check envelope and mechanical  
2nd Indoor Fans: Check envelope and mechanical  
3rd Space Heating: Check envelope and mechanical  
4th Pumps & Misc.: Check mechanical  
5th Heat Rejection: Check envelope and mechanical  
6th Domestic Hot Water: Check mechanical  
7th Indoor Lighting: Check lighting  
Compliance Margin By Energy Component (from Table B column 4)  
Space Cooling, Indoor Fans, Space Heating, Pumps & Misc., Heat Rejection, Domestic Hot Water, Indoor Lighting  
Penalty, Energy Credit

D. EXCEPTIONAL CONDITIONS  
This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.  
E. HERS VERIFICATION  
This Section Does Not Apply  
F. ADDITIONAL REMARKS  
None Provided

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2  
Dry System Equipment \* (Fan & Economizer info included below in Table N)  
1. Equip Name, 2. Equip Type, 3. System Type (Simple 1 or Complex 1), 4. Qty, 5. Total Heating Output (kBtu/yr), 6. Supp Heat Source (Y/N), 7. Supp Heat Output (kBtu/yr), 8. Total Cooling Output (kBtu/yr), 9. Efficiency (Cooling, Heating), 10. Acceptance Testing Required? (Y/N), 11. Status, 12. Pass, 13. Fail

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRC/NRCA/NRCV) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G and H in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27

Project Name: Oak Street Elementary School - LAWA Sound Mitigation  
Project Address: 633 S Oak Street Inglewood 90301  
Calculation Date/Time: 16:17, Tue, Nov 20, 2018  
Input File Name: Oak Street Elementary School - LAWA Sound Mitigation\_NR 174\_11-20-2018.cbdl16x  
Compliance Scope: ExistingAlteration  
G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY  
Identify which building components use the performance or prescriptive path for compliance. "NA" = not in project  
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.  
Building Component, Compliance Path, Compliance Forms (required for submittal), Location of Mandatory Notes on Plans

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance  
Report Version: NRCC-PRF-01-E-08082017-4377  
Report Generated at: 2018-11-20 16:21:27



Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 25 of 36														
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018														
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x														
<b>A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)</b>																			
1. DESIGN AIR FLOWS																			
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONVENTIONAL AREA (ft <sup>2</sup> )	MIN. VENT PER AREA (CFM/ft <sup>2</sup> )	DESIGN NUM. OF PEOPLE (CFM/PERSON)	MIN. VENT PER PERSON (CFM)	REQD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Area (ft <sup>2</sup> )	Pass	Fail
8-Counselor A20	AC-7 (Classroom 14 Couts)	305	76	0.25	NA	NA	N	AC-7 (Classroom 14 Couts)	175	NA	2	15.0	26	26	NA	N	NA		
9-Supplies Workroom A8	AC-8 (Office Area)	411	171	0.42	NA	NA	N	AC-8 (Office Area)	404	NA	4	15.0	61	61	NA	N	NA		
10-Office A10	AC-8 (Office Area)	496	207	0.42	NA	NA	N	AC-8 (Office Area)	487	NA	5	15.0	73	73	NA	N	NA		
11-Nurse 13	AC-8 (Office Area)	293	122	0.42	NA	NA	N	AC-8 (Office Area)	288	NA	3	15.0	43	43	NA	N	NA		
12-Mail Room A6	AC-9 (Office Area)	254	106	0.42	NA	NA	N	AC-9 (Office Area)	131	NA	1	15.0	20	20	NA	N	NA		
13-Vice Principal A7	AC-9 (Office Area)	322	134	0.42	NA	NA	N	AC-9 (Office Area)	166	NA	2	15.0	25	25	NA	N	NA		
14-Principal A9	AC-9 (Office Area)	623	260	0.42	NA	NA	N	AC-9 (Office Area)	321	NA	3	15.0	48	48	NA	N	NA		
15-Faculty Lounge A3	AC-10 (Faculty Lounge A3)	800	500	0.63	NA	NA	N	AC-10 (Faculty Lounge A3)	633	NA	42	15.0	633	633	NA	Y	NA		

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 26 of 36														
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018														
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x														
<b>A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)</b>																			
1. DESIGN AIR FLOWS																			
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONVENTIONAL AREA (ft <sup>2</sup> )	MIN. VENT PER AREA (CFM/ft <sup>2</sup> )	DESIGN NUM. OF PEOPLE (CFM/PERSON)	MIN. VENT PER PERSON (CFM)	REQD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Area (ft <sup>2</sup> )	Pass	Fail
16-Consolidated Office 13	AC-11 (Consolidated Office)	1,000	500	0.50	NA	NA	N	AC-11 (Consolidated Office)	360	NA	4	15.0	54	54	NA	N	NA		
17-Classroom 12	AC-12 (Classroom 12)	1,600	500	0.31	NA	NA	N	AC-12 (Classroom 12)	902	NA	45	15.0	677	677	NA	N	NA		
18-Classroom 11	AC-13 (Classroom 11)	2,370	741	0.31	NA	NA	N	AC-13 (Classroom 11)	948	NA	47	15.0	711	711	NA	N	NA		
19-Classroom 10	AC-14 (Classroom 10)	1,600	500	0.31	NA	NA	N	AC-14 (Classroom 10)	965	NA	48	15.0	724	724	NA	N	NA		
21-Kindergarten 1	AC-15 (Kindergarten 1)	2,000	500	0.25	NA	NA	N	AC-15 (Kindergarten 1)	944	NA	47	15.0	708	708	NA	N	NA		
22-Kindergarten 9	AC-16 (Kindergarten 9)	1,600	500	0.31	NA	NA	N	AC-16 (Kindergarten 9)	944	NA	47	15.0	708	708	NA	N	NA		
26-Classroom 2	AC-17 (Classroom 2)	1,600	500	0.31	NA	NA	N	AC-17 (Classroom 2)	930	NA	47	15.0	698	698	NA	N	NA		
27-Classroom 8	AC-18 (Classroom 8)	1,350	500	0.37	NA	NA	N	AC-18 (Classroom 8)	931	NA	47	15.0	698	698	NA	N	NA		

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 27 of 36														
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018														
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x														
<b>A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)</b>																			
1. DESIGN AIR FLOWS																			
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONVENTIONAL AREA (ft <sup>2</sup> )	MIN. VENT PER AREA (CFM/ft <sup>2</sup> )	DESIGN NUM. OF PEOPLE (CFM/PERSON)	MIN. VENT PER PERSON (CFM)	REQD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Area (ft <sup>2</sup> )	Pass	Fail
28-Classroom 3	AC-19 (Classroom 3)	1,600	500	0.31	NA	NA	N	AC-19 (Classroom 3)	943	NA	47	15.0	707	707	NA	N	NA		
29-Classroom 7	AC-20 (Classroom 7)	1,350	500	0.37	NA	NA	N	AC-20 (Classroom 7)	964	NA	48	15.0	723	723	NA	N	NA		
30-Classroom 4	AC-21 (Classroom 4)	1,600	500	0.31	NA	NA	N	AC-21 (Classroom 4)	932	NA	47	15.0	699	699	NA	N	NA		
31-Classroom 5	AC-22 (Classroom 5)	2,000	500	0.25	NA	NA	N	AC-22 (Classroom 5)	952	NA	48	15.0	714	714	NA	N	NA		
32-Classroom 6	AC-23 (Classroom 6)	1,600	500	0.31	NA	NA	N	AC-23 (Classroom 6)	946	NA	47	15.0	710	710	NA	N	NA		
33-Multi-Use C1	AC-24 & 25 (Multi-Use C1)	2,450	306	0.13	NA	NA	N	AC-24 & 25 (Multi-Use C1)	1,385	NA	69	15.0	1,039	1,039	NA	N	NA		
34-Platform C2	AC-24 & 25 (Multi-Use C1)	962	120	0.13	NA	NA	N	AC-24 & 25 (Multi-Use C1)	544	NA	36	15.0	544	544	NA	Y	NA		
36-Kitchen C9	AC-24 & 25 (Multi-Use C1)	587	73	0.13	NA	NA	N	AC-24 & 25 (Multi-Use C1)	332	NA	2	30.0	50	50	NA	N	NA		
<b>TOTAL</b>									27,391		NA	NA	NA	NA	NA				

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 22 of 36	
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018	
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x	
<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b>						
I certify that this Certificate of Compliance documentation is accurate and complete.						
Documentation Author Name: Signature: <i>James H. Shue</i>						
Company: Maroko & Shue, Inc.						
Address: 1106 B. West Magnolia Blvd						
City/State/Zip: Burbank CA 91506						
Phone: (818) 840-0280						
<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b>						
I certify the following under penalty of perjury, under the laws of the State of California:						
1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.						
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.						
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.						
Responsible Envelope Designer Name: Signature: <i>James H. Shue</i>						
Company: Maroko & Shue, Inc.						
Address: 1106 B. West Magnolia Blvd						
City/State/Zip: Burbank CA 91506						
Phone: (818) 840-0280						

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 23 of 36	
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018	
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x	
<b>NRCC-PRF-ENV-DETAILS - SECTION START-</b>						
<b>A. OPAQUE SURFACE ASSEMBLY DETAILS</b>						
This Section Does Not Apply						
<b>B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)</b>						
This Section Does Not Apply						
<b>C. OPAQUE DOOR SUMMARY</b>						
This Section Does Not Apply						
<b>D. WINDOW SUMMARY</b>						
This Section Does Not Apply						
<b>E. GLASS CURTAIN WALL SUMMARY</b>						
This Section Does Not Apply						
<b>F. GLASS DOOR SUMMARY</b>						
This Section Does Not Apply						
<b>G. GLASS WINDOW SUMMARY</b>						
This Section Does Not Apply						
<b>H. GLASS PARTITION SUMMARY</b>						
This Section Does Not Apply						
<b>I. GLASS SKYBRIDGE SUMMARY</b>						
This Section Does Not Apply						
<b>J. GLASS BALCONY SUMMARY</b>						
This Section Does Not Apply						
<b>K. GLASS STAIR SUMMARY</b>						
This Section Does Not Apply						
<b>L. GLASS ELEVATOR SUMMARY</b>						
This Section Does Not Apply						
<b>M. GLASS RAMP SUMMARY</b>						
This Section Does Not Apply						
<b>N. GLASS SIGN SUMMARY</b>						
This Section Does Not Apply						
<b>O. GLASS CANOPY SUMMARY</b>						
This Section Does Not Apply						
<b>P. GLASS PORCH SUMMARY</b>						
This Section Does Not Apply						
<b>Q. GLASS TERRACE SUMMARY</b>						
This Section Does Not Apply						
<b>R. GLASS BALCONY SUMMARY</b>						
This Section Does Not Apply						
<b>S. GLASS STAIR SUMMARY</b>						
This Section Does Not Apply						
<b>T. GLASS ELEVATOR SUMMARY</b>						
This Section Does Not Apply						
<b>U. GLASS RAMP SUMMARY</b>						
This Section Does Not Apply						
<b>V. GLASS SIGN SUMMARY</b>						
This Section Does Not Apply						
<b>W. GLASS CANOPY SUMMARY</b>						
This Section Does Not Apply						
<b>X. GLASS PORCH SUMMARY</b>						
This Section Does Not Apply						
<b>Y. GLASS TERRACE SUMMARY</b>						
This Section Does Not Apply						
<b>Z. GLASS BALCONY SUMMARY</b>						
This Section Does Not Apply						

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 24 of 36														
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018														
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x														
<b>NRCC-PRF-MCH-DETAILS - SECTION START-</b>																			
<b>A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)</b>																			
1. DESIGN AIR FLOWS																			
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONVENTIONAL AREA (ft <sup>2</sup> )	MIN. VENT PER AREA (CFM/ft <sup>2</sup> )	DESIGN NUM. OF PEOPLE (CFM/PERSON)	MIN. VENT PER PERSON (CFM)	REQD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Area (ft <sup>2</sup> )	Pass	Fail
1-Classroom 18	AC-1 (Classroom 18)	2,000	500	0.25	NA	NA	N	AC-1 (Classroom 18)	948	NA	47	15.0	711	711	NA	N	NA		
2-Classroom 19	AC-2 (Classroom 19)	2,000	500	0.25	NA	NA	N	AC-2 (Classroom 19)	965	NA	48	15.0	724	724	NA	N	NA		
3-Classroom 16	AC-3 (Classroom 16)	2,000	500	0.25	NA	NA	N	AC-3 (Classroom 16)	999	NA	50	15.0	749	749	NA	N	NA		
4-Classroom 17	AC-4 (Classroom 17)	2,000	500	0.25	NA	NA	N	AC-4 (Classroom 17)	896	NA	45	15.0	672	672	NA	N	NA		
5-Classroom 15	AC-5 (Classroom 15)	1,600	500	0.31	NA	NA	N	AC-5 (Classroom 15)	954	NA	48	15.0	716	716	NA	N	NA		
6-Library A19	AC-6 (Library A19)	2,000	500	0.25	NA	NA	N	AC-6 (Library A19)	1,155	NA	23	15.0	347	347	NA	N	NA		
7-Classroom 14	AC-7 (Classroom 14 Couts)	1,695	424	0.25	NA	NA	N	AC-7 (Classroom 14 Couts)	972	NA	49	15.0	729	729	NA	N	NA		

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation		NRCC-PRF-01-E		Page 19 of 36	
Project Address:	633 S Oak Street Inglewood 90301		Calculation Date/Time:		16:17, Tue, Nov 20, 2018	
Compliance Scope:	ExistingAlteration		Input File Name:		Oak Street Elementary School - LAWA Sound Mitigation_NR 724_11-20-2018.cbdl6x	
<b>Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)<sup>1</sup></b>						
This Section Does Not Apply						
<b>R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)<sup>1</sup></b>						
This Section Does Not Apply						
<b>S1. COVERED PROCESS SUMMARY - ENCLOSED PARKING GARAGES</b>						
This Section Does Not Apply						
<b>S2. COVERED PROCESS SUMMARY - COMMERCIAL KITCHENS</b>						
This Section Does Not Apply						
<b>S3. COVERED PROCESS SUMMARY - COMPUTER ROOMS</b>						
This Section Does Not Apply						
<b>S4. COVERED PROCESS SUMMARY - LABORATORY EXHAUSTS</b>						
This Section Does Not Apply						
<b>T. UNMET LOAD HOURS</b>						

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 35 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)</b>			<b>§ 140.6</b>
Total watts			0
<b>D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)</b>			<b>§ 140.6-D</b>
This Section Does Not Apply			
<b>E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)</b>			<b>§ 140.6(c) 3H</b>
Room Number	Primary Function Area	Illuminance Value (Lux)	Room Cavity Ratio (Table G)
NA	NA	NA	NA
This Section Does Not Apply			
<b>F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)</b>			
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)
NA	NA	NA	NA
This Section Does Not Apply			
<b>G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)</b>			
1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise
0	0	0	0
This Section Does Not Apply			

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 36 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>6. Floor Display and Task Lighting</b>			
This Section Does Not Apply			
<b>7. Combined Ornamental and Special Effects Lighting</b>			
This Section Does Not Apply			
<b>8. Very Valuable Merchandise</b>			
This Section Does Not Apply			
<b>H. INDOOR &amp; OUTDOOR LIGHTING ACCEPTANCE TESTS &amp; FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTI-02-E)</b>			<b>§ 130.4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
Test Description	Indoor	Outdoor	Confirmed
Equipment Requiring Testing or Verification	NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A
Occupant Sensors	0	0	0
Automatic Time Switch	0	0	0
Automatic Daylighting	0	0	0
Demand Responsive	0	0	0
Outdoor Controls	0	0	0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

<b>ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL</b>		<b>ENV-MM</b>
Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	Date: 11/20/2018
<b>DESCRIPTION</b>		
<b>Building Envelope Measures:</b>		
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.	
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.	
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.	
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft <sup>2</sup> of window area, 0.3 cfm/ft <sup>2</sup> of door area for residential doors, 0.3 cfm/ft <sup>2</sup> of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft <sup>2</sup> for nonresidential double doors (swinging).	
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	
§110.6(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.	
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).	
§120.7(a):	The opaque portions of the roof/ceiling that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor requirements as follows: <b>Metal Building:</b> The weighted average U-factor of the roof assembly shall not exceed 0.098. <b>Wood Framed and Others:</b> The weighted average U-factor of the roof assembly shall not exceed 0.075.	
§120.7(b):	The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: <b>Metal Building:</b> The weighted average U-factor of the wall assembly shall not exceed 0.113. <b>Metal Framed:</b> The weighted average U-factor of the wall assembly shall not exceed 0.151. <b>Light Mass Walls:</b> A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. <b>Heavy Mass Walls:</b> An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. <b>Wood Framed and Others:</b> The weighted average U-factor of the wall assembly shall not exceed 0.110. <b>Spandrel Panels and Opaque Curtain Wall:</b> The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.290. <b>Densifying Walls:</b> The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.	
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor requirements as follows: <b>Raked Mass Floors:</b> Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.249. <b>Other Floors:</b> The weighted average U-factor of the floor assembly shall not exceed 0.071.	

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 32 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b>			<b>§ RA4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
Test Description	MCH-02A	MCH-02A	Confirmed
Equipment Requiring Testing or Verification	Outdoor Air	Single Zone Unitary	Pass
AC-10 (Faculty Lounge A3)	1	X	X
AC-11 (Consolidated Office 13)	1	X	X
AC-12 (Classroom 12)	1	X	X
AC-13 (Classroom 11)	1	X	X
AC-14 (Classroom 10)	1	X	X
AC-15 (Kindergarten n-1)	1	X	X
AC-16 (Kindergarten n-9)	1	X	X

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 33 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b>			<b>§ RA4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
Test Description	MCH-02A	MCH-02A	Confirmed
Equipment Requiring Testing or Verification	Outdoor Air	Single Zone Unitary	Pass
AC-17 (Classroom 2)	1	X	X
AC-18 (Classroom 8)	1	X	X
AC-19 (Classroom 3)	1	X	X
AC-20 (Classroom 7)	1	X	X
AC-21 (Classroom 4)	1	X	X
AC-22 (Classroom 5)	1	X	X
AC-23 (Classroom 6)	1	X	X

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 34 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b>			<b>§ RA4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
Test Description	MCH-02A	MCH-02A	Confirmed
Equipment Requiring Testing or Verification	Outdoor Air	Single Zone Unitary	Pass
AC-24 & 25 (Multi-Use C1)	2	X	X
<b>H. EVAPORATIVE COOLER SUMMARY</b>			
This Section Does Not Apply			
<b>NRCC-PRF-LTI-DETAILS - SECTION START-</b>			
<b>A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)</b>			<b>§ 140.6</b>
This Section Does Not Apply			
<b>B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)</b>			<b>§ 130.1</b>
This Section Does Not Apply			
<b>C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)</b>			<b>§ 140.6</b>
General lighting power (see Table D)			0
General lighting power from special function areas (see Table E)			NA
Additional "use it or lose it" (See Table G)			0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 28 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY</b>			<b>§ 140.4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
System ID	System Type	Qty	Confirmed
1-Classroom 18-Trm	VAV/NoReheatBox	1	NA
2-Classroom 19-Trm	VAV/NoReheatBox	1	NA
3-Classroom 16-Trm	VAV/NoReheatBox	1	NA
4-Classroom 17-Trm	VAV/NoReheatBox	1	NA
5-Classroom 15-Trm	VAV/NoReheatBox	1	NA
6-Library A19-Trm	VAV/NoReheatBox	1	NA
8-Counselor A20-Trm	VAV/NoReheatBox	1	NA
7-Classroom 14-Trm	VAV/NoReheatBox	1	NA
11-Nurse 13-Trm	VAV/NoReheatBox	1	NA
10-Office A10-Trm	VAV/NoReheatBox	1	NA
9-Supplies Workroom A8-Trm	VAV/NoReheatBox	1	NA
14-Principal A9-Trm	VAV/NoReheatBox	1	NA
13-Vice Principal A7-Trm	VAV/NoReheatBox	1	NA
12-Mail Room A6-Trm	VAV/NoReheatBox	1	NA
15-Faculty Lounge A3-Trm	VAV/NoReheatBox	1	NA
16-Consolidated Office 13-Trm	VAV/NoReheatBox	1	NA
17-Classroom 12-Trm	VAV/NoReheatBox	1	NA
18-Classroom 11-Trm	VAV/NoReheatBox	1	NA
19-Classroom 10-Trm	VAV/NoReheatBox	1	NA
21-Kindergarten 1-Trm	VAV/NoReheatBox	1	NA
22-Kindergarten 9-Trm	VAV/NoReheatBox	1	NA

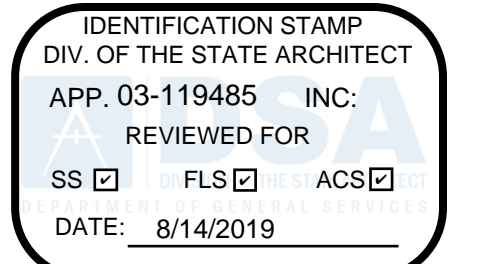
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 29 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY</b>			<b>§ 140.4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
System ID	System Type	Qty	Confirmed
26-Classroom 2-Trm	VAV/NoReheatBox	1	NA
27-Classroom 8-Trm	VAV/NoReheatBox	1	NA
28-Classroom 3-Trm	VAV/NoReheatBox	1	NA
29-Classroom 7-Trm	VAV/NoReheatBox	1	NA
30-Classroom 4-Trm	VAV/NoReheatBox	1	NA
31-Classroom 5-Trm	VAV/NoReheatBox	1	NA
32-Classroom 6-Trm	VAV/NoReheatBox	1	NA
36-Kitchen C9-Trm	VAV/NoReheatBox	2	NA
34-Platform C2-Trm	VAV/NoReheatBox	2	NA
33-Multi-Use C1-Trm	VAV/NoReheatBox	2	NA
<b>C. EXHAUST FAN SUMMARY</b>			
This Section Does Not Apply			
<b>D. DHW EQUIPMENT SUMMARY - (Adapted from NRCC-PLB-01)</b>			<b>§ 110.3</b>
DHW Name	Heater Element Type	Tank Type	Confirmed
Standard Gas 50 gal or Le2	Gas	Storage	Pass
Standard Gas 50 gal or Le2 2	Gas	Storage	Pass
Standard Gas 50 gal or Le2 3	Gas	Storage	Pass

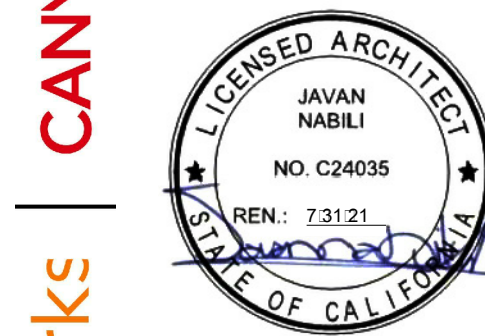
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27

Project Name:	Oak Street Elementary School - LAWA Sound Mitigation	NRCC-PRF-01-E	Page 30 of 36
Project Address:	633 S Oak Street Inglewood 90301	Calculation Date/Time:	16:17, Tue, Nov 20, 2018
Compliance Scope:	ExistingAlteration	Input File Name:	Oak Street Elementary School - LAWA Sound Mitigation_NR 124_11-20-2018.cbd16x
<b>E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS</b>			
This Section Does Not Apply			
<b>F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)</b>			
This Section Does Not Apply			
<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b>			<b>§ RA4</b>
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).			
Test Description	MCH-02A	MCH-02A	Confirmed
Equipment Requiring Testing or Verification	Outdoor Air	Single Zone Unitary	Pass
Oak Street Elementary Sch 1 - SHW	1	X	X
Oak Street Elementary Sch 191 - SHW	1	X	X
Oak Street Elementary Sch 293 - SHW	1	X	X
AC-1 (Classroom 18)	1	X	X

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-08082017-4377 Report Generated at: 2018-11-20 16:21:27



155 S. Fair Oaks, 2nd Floor, Pasadena California 91105  
t 626.666.6906  
f 626.666.3940  
www.cannondesign.com



COPYRIGHT 2018  
No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNON DESIGN.



CORDOBA CORPORATION



**SOUND MITIGATION PROGRAM**  
**OAK STREET ELEMENTARY SCHOOL**  
633 South Oak Street Inglewood, CA 91001  
A PROJECT FOR:  
**INGLEWOOD UNIFIED SCHOOL DISTRICT**

PROJECT NUMBER

10292

DRAWN: N.W.S.W.L.S.N

CHECKED: J.S.N.W

ISSUE/REVISION:

8/21/2018 30% SCHEMATIC DESIGN

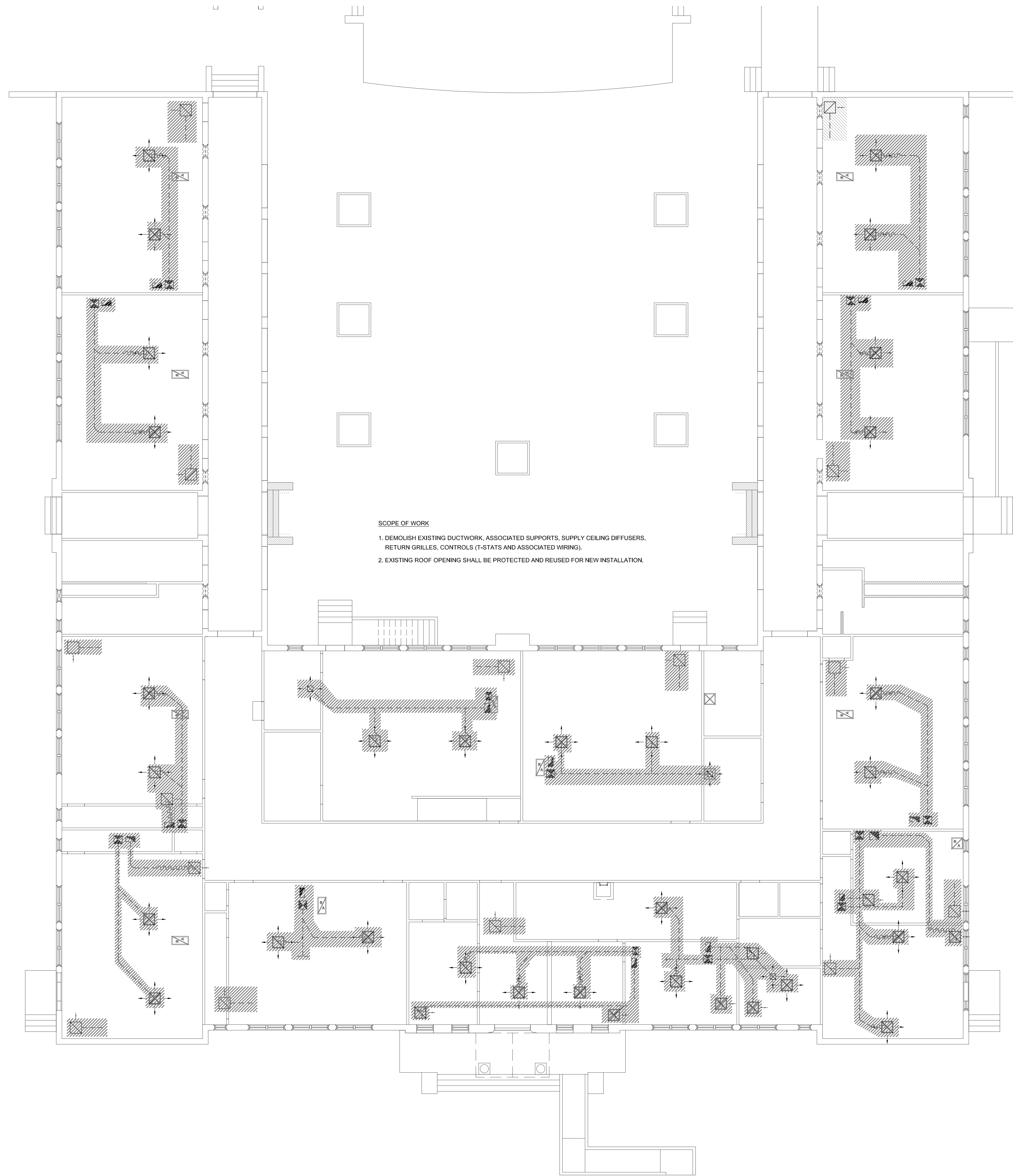
10/10/2018 50% CD SUBMITTAL

11/15/2018 100% CD - DSA SUBMITTAL

03/15/2019 DSA APPROVAL

TITLE - 24

**M0.06**

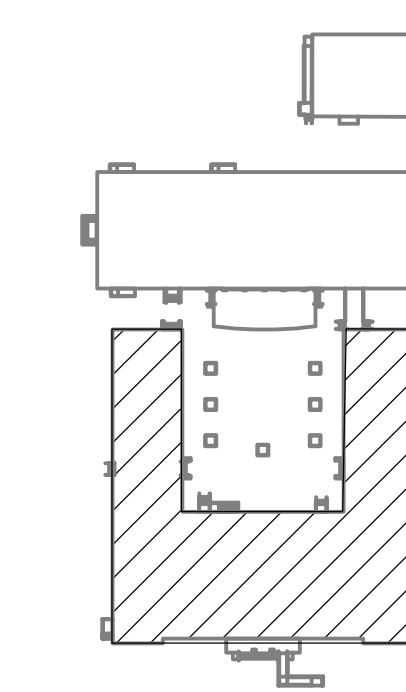
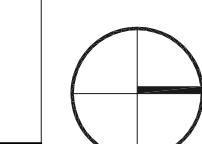


**LEGEND**

**SHEET NOTES**

**KEYNOTES**

**KEY PLAN**

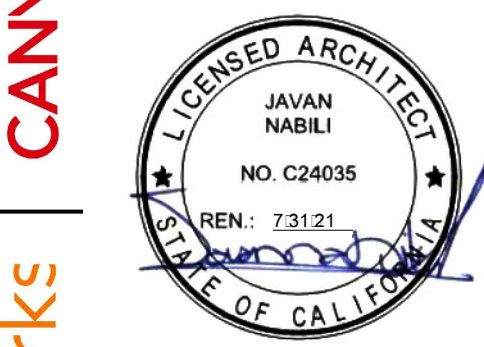


**MECHANICAL EXISTING FLOOR PLAN - BUILDING A**  
1/8" = 1'-0"

**1**

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP. 03-119485 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 8/14/2019

**CANNODESIGN**  
155 S. Fair Oaks, 2nd Floor,  
Pasadena California 91105  
t 626.666.8906  
f 626.666.3840  
www.cannodesign.com



**gkkworks** | **CANNODESIGN**  
COPYRIGHT 2018  
No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNODESIGN.



**CORDOBA CORPORATION**  
500 BROADWAY • SUITE 1000 • NEW YORK, NY 10013



**SOUND MITIGATION PROGRAM**  
**OAK STREET ELEMENTARY SCHOOL**  
633 South Oak Street Inglewood, CA 90301  
A PROJECT FOR:  
**INGLEWOOD UNIFIED SCHOOL DISTRICT**

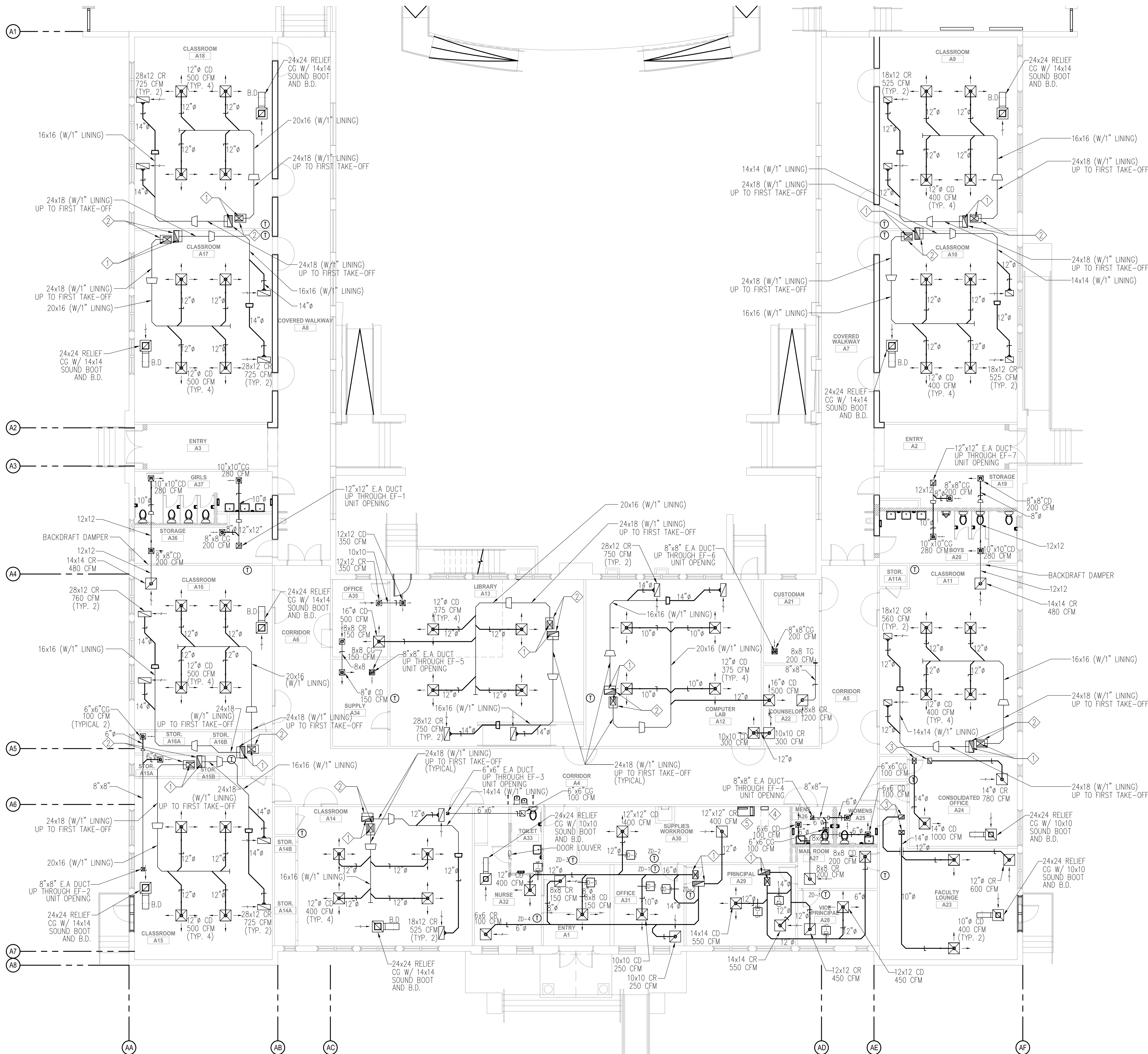
PROJECT NUMBER  
**10292**

DRAWN:	
CHECKED:	
ISSUE/REVISION:	
8/21/2018	30% SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

MECHANICAL DEMOLITION  
FLOOR PLAN - BUILDING A

**MAD101**

11/15/2018: Oak Street Elementary School - JMK - Sound Mitigation Program-17



LEGEND

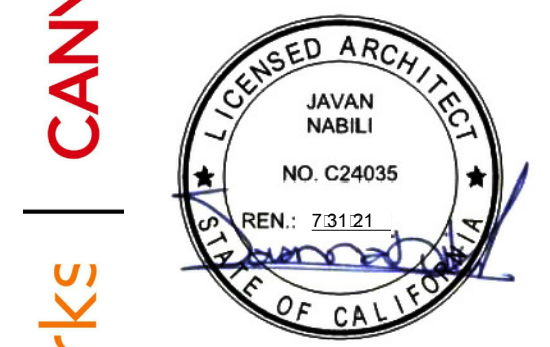
SHEET NOTES

KEYNOTES

KEY PLAN

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP. 03-119485 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 8/14/2019

155 S. Fair Oaks, 2nd Floor,  
 Pasadena California 91105  
 t 626.666.6906  
 f 626.666.3840  
 www.cannondesign.com



Copyright 2018  
 No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNONDESIGN.



**SOUND MITIGATION PROGRAM**  
**OAK STREET ELEMENTARY SCHOOL**  
 633 South Oak Street Inglewood, CA 90301  
 A PROJECT FOR:  
**INGLEWOOD UNIFIED SCHOOL DISTRICT**

PROJECT NUMBER: **10292**

DRAWN:	
CHECKED:	
ISSUE/REVISION:	
8/21/2018	30% SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
05/23/2019	DSA APPROVAL

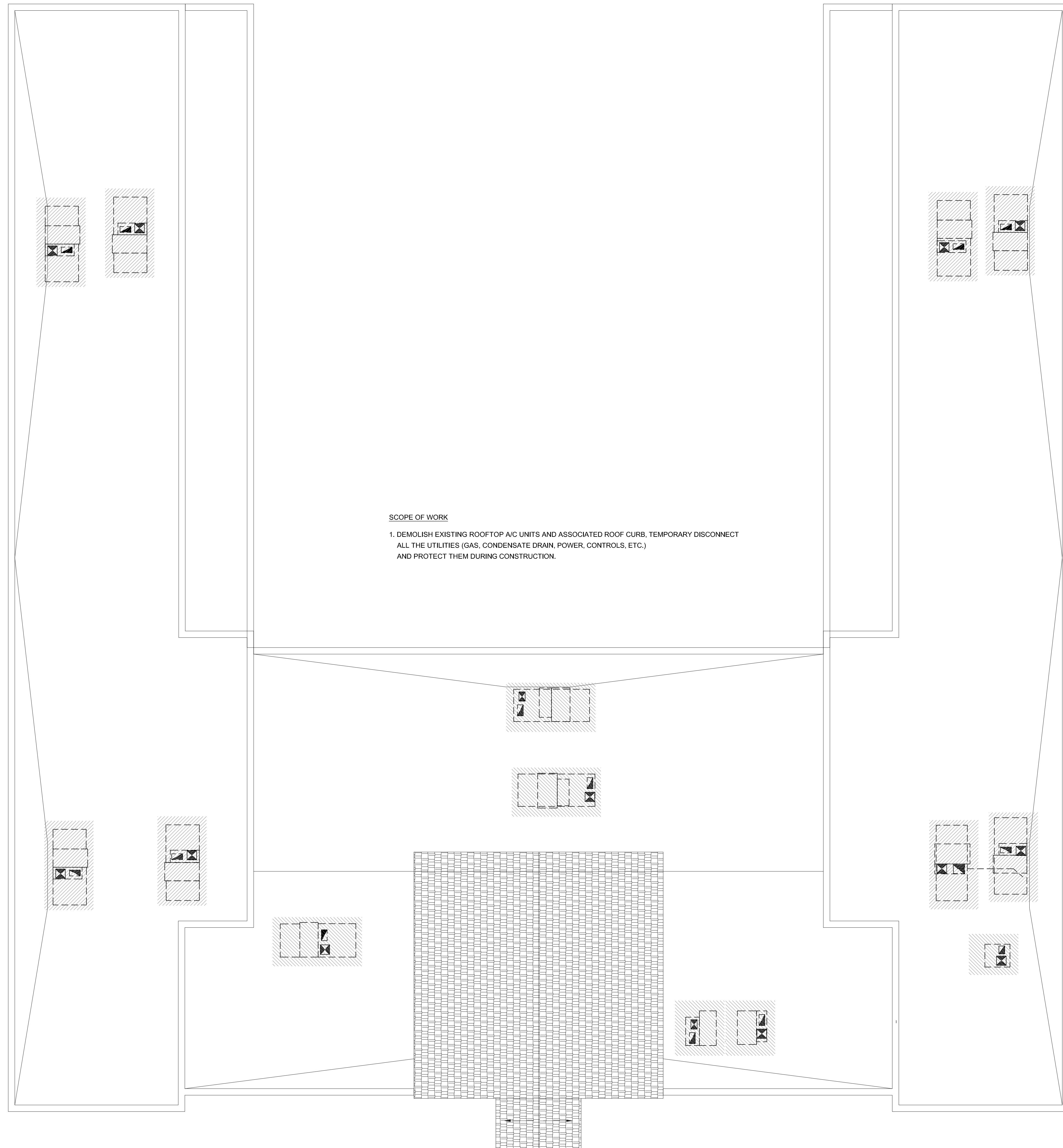
MECHANICAL NEW FLOOR PLAN - BUILDING A

**MA101**

MECHANICAL NEW FLOOR PLAN - BUILDING A

1/8" = 1'-0"





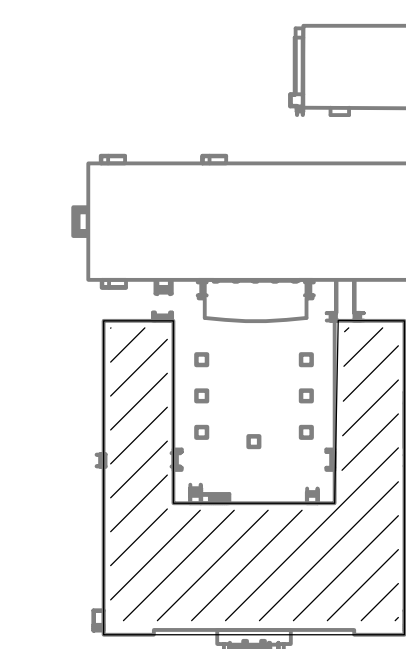
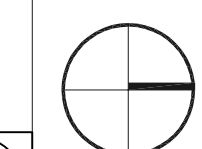
SCOPE OF WORK  
 1. DEMOLISH EXISTING ROOFTOP A/C UNITS AND ASSOCIATED ROOF CURB, TEMPORARY DISCONNECT ALL THE UTILITIES (GAS, CONDENSATE DRAIN, POWER, CONTROLS, ETC.) AND PROTECT THEM DURING CONSTRUCTION.

LEGEND

SHEET NOTES

KEYNOTES

KEY PLAN



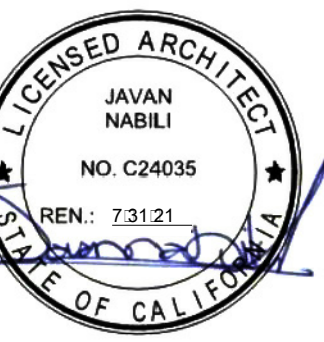
MECHANICAL EXISTING ROOF PLAN - BUILDING A  
 1/8" = 1'-0"

1

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP. 03-119485 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 8/14/2019

155 S. Fair Oaks, 2nd Floor,  
 Pasadena California 91105  
 t 626.666.6906  
 f 626.666.3940  
 www.cannondesign.com

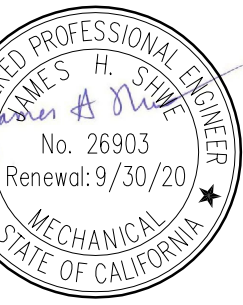
CANNONDESIGN



COPYRIGHT 2018  
 No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNONDESIGN.



CORDOBA CORPORATION  
 500 BROADWAY • SAN FRANCISCO • CALIFORNIA 94102



SOUND MITIGATION PROGRAM

OAK STREET ELEMENTARY SCHOOL  
 633 South Oak Street Inglewood, CA 90301

A PROJECT FOR:  
 INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER  
**10292**

DRAWN:	
CHECKED:	
ISSUE/REVISION:	
8/21/2018	30% SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

MECHANICAL DEMOLITION  
 ROOF PLAN - BUILDING A

MAD102

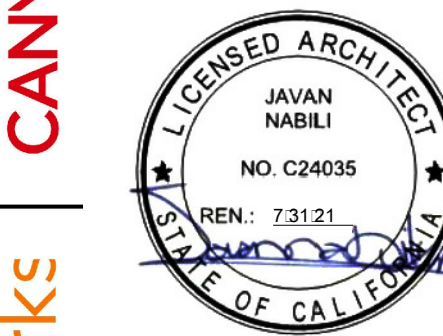
11/15/2018: Oak Street Elementary School - JMM South Region (11/15/18)



LEGEND

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP. 03-119485 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 8/14/2019

155 S. Fair Oaks, 2nd Floor,  
Pasadena California 91105  
t 626.666.6906  
f 626.666.3940  
www.cannondesign.com



COPYRIGHT 2018  
No part of the contents of this document may be reproduced or transmitted in any form or by any means without the written permission of CANNONDESIGN.

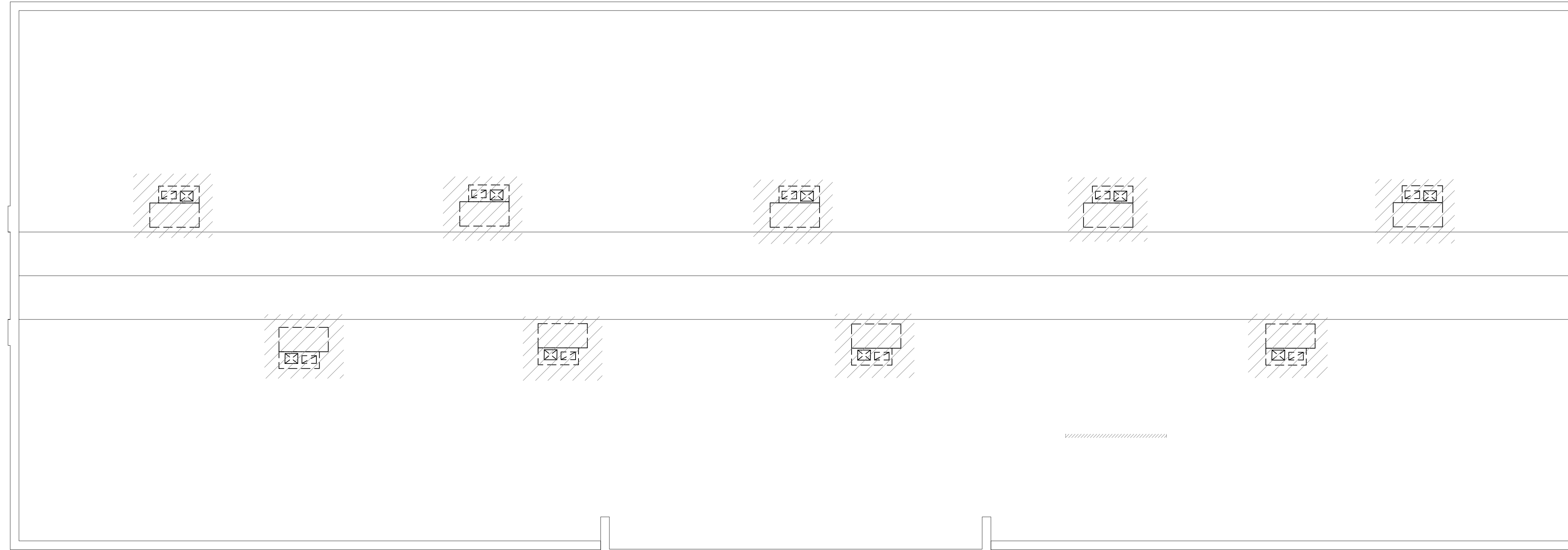


CORDOBA CORPORATION  
503 BROADWAY • SAN FRANCISCO • CALIFORNIA 94102



SCOPE OF WORK

- 1. DEMOLISH EXISTING ROOFTOP A/C UNITS AND ASSOCIATED ROOF CURB, TEMPORARY DISCONNECT ALL THE UTILITIES (GAS, CONDENSATE DRAIN, POWER, CONTROLS, ETC.) AND PROTECT THEM DURING CONSTRUCTION.



MECHANICAL EXISTING ROOF PLAN - BUILDING B

1/8" = 1'-0"

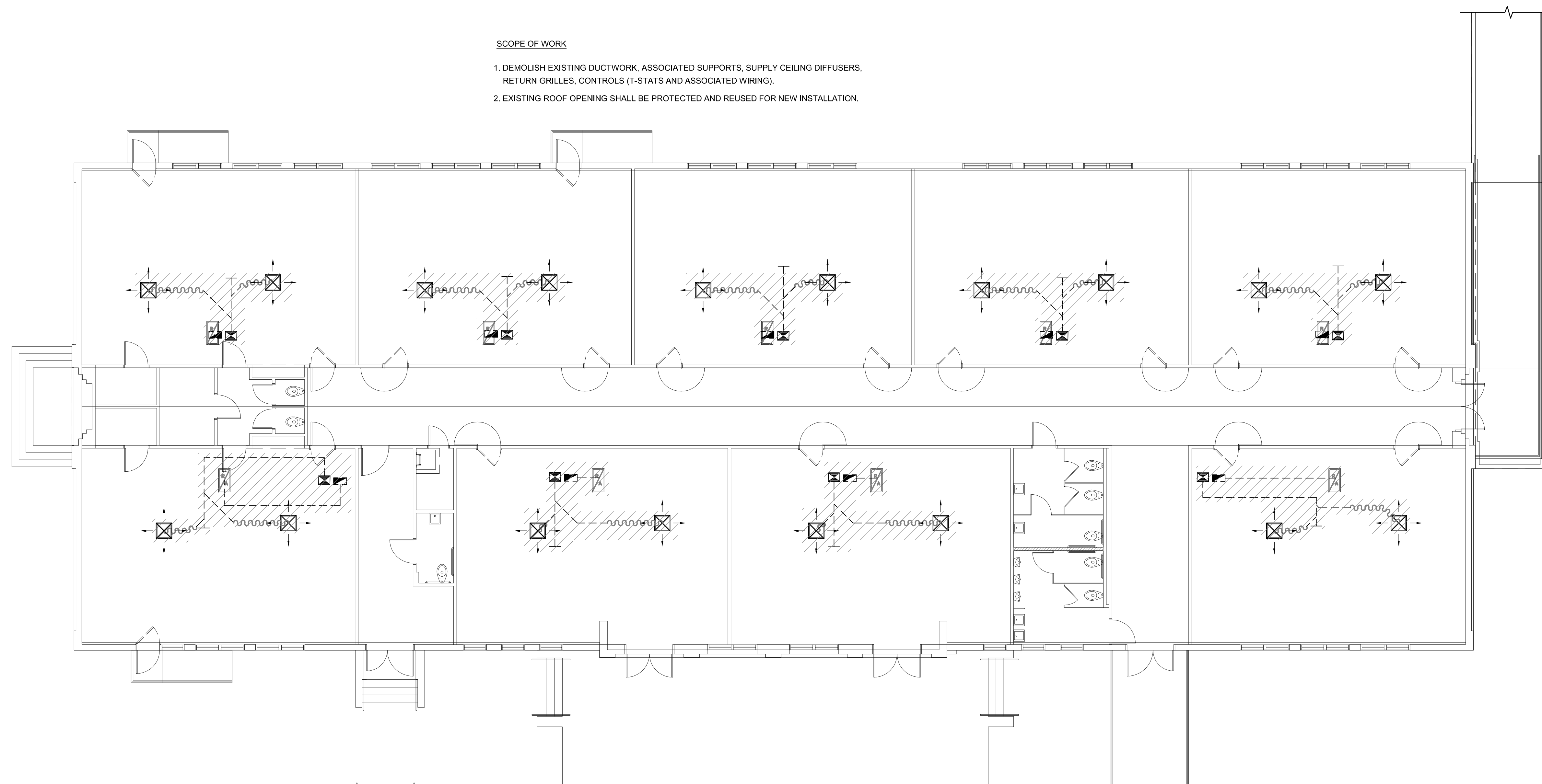
1

SHEET NOTES

KEYNOTES

SCOPE OF WORK

- 1. DEMOLISH EXISTING DUCTWORK, ASSOCIATED SUPPORTS, SUPPLY CEILING DIFFUSERS, RETURN GRILLES, CONTROLS (T-STATS AND ASSOCIATED WIRING).
- 2. EXISTING ROOF OPENING SHALL BE PROTECTED AND REUSED FOR NEW INSTALLATION.

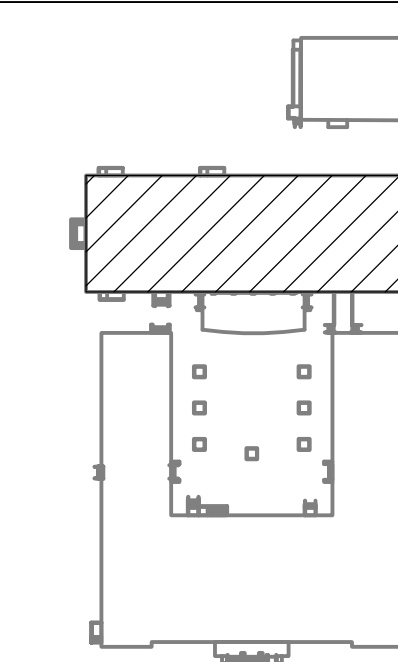
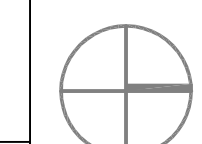


MECHANICAL DEMOLITION FLOOR PLAN - BUILDING B

1/8" = 1'-0"

1

KEY PLAN



SOUND MITIGATION PROGRAM

OAK STREET ELEMENTARY SCHOOL  
633 South Oak Street Inglewood, CA 90301

A PROJECT FOR:  
INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER  
10292

Table with columns for revision number, date, and description of changes.

MECHANICAL DEMOLITION PLANS - BUILDING B

MBD101

11/15/2018: Oak Street Elementary School - JMB Sound Mitigation (2018-10-17)