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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST														(Part 1 of 3)		ENV-1C	
Project Name Pico Branch Library										Date 8/3/2012							
Project Address Virginia Avenue Park Santa Monica										Climate Zone 6		Total Cond. Floor Area 7,369		Addition Floor Area n/a			
<b>GENERAL INFORMATION</b>																	
Building Type: <input type="checkbox"/> Nonresidential <input type="checkbox"/> High Rise Residential <input type="checkbox"/> Hotel/Motel Guest Room																	
Schools (Public School) <input type="checkbox"/> Reconfigurable Public School <input type="checkbox"/> Conditioned Spaces <input type="checkbox"/> Unconditioned Spaces <input type="checkbox"/>																	
Sightline Area for Large Enclosed Space > 8000 ft <sup>2</sup> (If checked include the ENV-4C with submittal) <input type="checkbox"/>																	
Phase of Construction: <input type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/>																	
Approach of Compliance: <input type="checkbox"/> Component <input type="checkbox"/> Overall Envelope <input type="checkbox"/> Unconditioned (file affidavit)																	
Front Orientation: N, E, S, W or in Degrees: 348 deg																	
FIELD INSPECTION ENERGY CHECKLIST																	
OPAQUE SURFACE DETAILS																	
INSULATION																	
Tag ID	Assembly Type	Area (ft <sup>2</sup> )	Orientation N, E, S, W	U-Factor	R-Value R-19	Envelope R-Value	Exterior Finishing	Interior R-Value	Interior Finishing	Attic Adjacent	Condition Status	Pass	Fail				
1	Wall	34	(N)	0.074	R-19					4.3-1.5	New	<input type="checkbox"/>	<input type="checkbox"/>				
2	Door	24	(N)	1.450	None					4.5-1.1	New	<input type="checkbox"/>	<input type="checkbox"/>				
3	Roof	1,491	(N)	0.030	R-30					4.2-1.7	New	<input type="checkbox"/>	<input type="checkbox"/>				
4	Slab	1,501	(N)	0.280	R-3.6					4.4-1.1	New	<input type="checkbox"/>	<input type="checkbox"/>				
5	Wall	440	(W)	0.074	R-19					4.3-1.5	New	<input type="checkbox"/>	<input type="checkbox"/>				
6	Wall	296	(S)	0.074	R-19					4.3-1.5	New	<input type="checkbox"/>	<input type="checkbox"/>				
7	Door	64	(S)	1.450	None					4.5-1.1	New	<input type="checkbox"/>	<input type="checkbox"/>				
8	Roof	1,491	(W)	0.030	R-30					4.2-1.7	New	<input type="checkbox"/>	<input type="checkbox"/>				
9	Slab	135	(N)	0.730	None					4.4-1.1	New	<input type="checkbox"/>	<input type="checkbox"/>				
10	Wall	113	(N)	0.074	R-19					4.3-1.5	New	<input type="checkbox"/>	<input type="checkbox"/>				
I See Instructions in the Nonresidential Compliance Manual, page 3-96. I Fail, then describe on Page 2 of the Inspection Checklist Form and make appropriate action to correct. A fail does not meet compliance.																	
FENESTRATION SURFACE DETAILS																	
Tag ID	Fenestration Type	Area (ft <sup>2</sup> )	Orientation N, E, S, W	Net U-Factor	U-Factor	Shading Coefficient	Net SHGC	SHGC	Overhang	Condition Status	Pass	Fail					
1	Window	169	(N)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
2	Skylight	10	(N)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
3	Window	243	(W)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
4	Window	631	(S)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
5	Window	27	(N)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
6	Skylight	4	(N)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
7	Window	497	(E)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
8	Window	64	(N)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
9	Window	27	(E)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
10	Window	23	(S)	0.270	COG	0.320	COG	0.320	COG	New	<input type="checkbox"/>	<input type="checkbox"/>					
I See Instructions in the Nonresidential Compliance Manual, page 3-96. I Fail, then describe on Page 2 of the Inspection Checklist Form and make appropriate action to correct. A fail does not meet compliance.																	

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<b>CERTIFICATE OF COMPLIANCE</b> <b>AND FIELD INSPECTION ENERGY CHECKLIST</b>										(Part 1 of 3) <b>ENVI 2012</b>			
<b>Project Name</b> Pico Branch Library										<b>Date</b> 8/3/2012			
<b>Project Address</b> Virginia Ave Park Santa Monica										<b>Additional Floor Area</b> n/a			
<b>GENERAL INFORMATION</b>													
<b>Building Type:</b> <input type="checkbox"/> Nonresidential <input type="checkbox"/> High Rise Residential <input type="checkbox"/> Mobile/Motel/Guest Room													
<input type="checkbox"/> Schools (Public School) <input type="checkbox"/> Recreational/Public School <input type="checkbox"/> Conditioned Spaces <input type="checkbox"/> Unconditioned Spaces													
<input type="checkbox"/> Skylight Area for Large Enclosed Space ≥ 8000 m <sup>2</sup> (If checked include the ENN-4/C with submittal)													
<b>Phase of Construction:</b> <input type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Alteration													
<b>Approach of Compliance:</b> <input type="checkbox"/> Component <input type="checkbox"/> Overall Envelope <input type="checkbox"/> Unconditioned (file affidavit)													
<b>Front Orientation:</b> N, E, S, W or In Design    3rd step													
<b>FIELD INSPECTION ENERGY CHECKLIST</b>													
<b>OPAQUE SURFACE DETAILS</b>					<b>INSULATION</b>								
Tag/ID	Assembly Type	Area (ft <sup>2</sup> )	U-Value N, E, S, W	U-Factor	Cavity Insulation	Exterior R-Value	Exterior Footing	Interior R-Value	Interior Footing	Joint Insulation	Condition Status	Pass	Fail
21	Slab	1,200	(N)	0.730	None					4.4,7,4.1	New	<input type="checkbox"/>	<input type="checkbox"/>
22	Wall	40	(S)	0.974	R-19					4.3,1,4.5	New	<input type="checkbox"/>	<input type="checkbox"/>
23	Wall	210	(S)	0.974	R-19					4.3,1,4.5	New	<input type="checkbox"/>	<input type="checkbox"/>
24	Wall	163	(N)	0.974	R-19					4.3,1,4.5	New	<input type="checkbox"/>	<input type="checkbox"/>
25	Roof	870	(N)	0.036	R-30					4.2,2,4.7	New	<input type="checkbox"/>	<input type="checkbox"/>
26	Wall	325	(N)	0.974	R-19					4.3,1,4.5	New	<input type="checkbox"/>	<input type="checkbox"/>
27	Door	64	(N)	0.700	None					4.5,1,4.2	New	<input type="checkbox"/>	<input type="checkbox"/>
28	Wall	418	(S)	0.974	R-19					4.3,1,4.5	New	<input type="checkbox"/>	<input type="checkbox"/>
29	Wall	321	(S)	0.974	R-19					4.3,1,4.5	New	<input type="checkbox"/>	<input type="checkbox"/>
30	Slab	870	(N)	0.730	None					4.4,7,4.1	New		







CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 4) MECH-1C										
Project Name Pico Branch Library										Date 5/3/2012
<b>Required Acceptance Tests</b>										
<b>Designer:</b> This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and listed all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.										
<b>Building Departments:</b> <b>Systems Acceptance:</b> Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. <b>Systems Acceptance:</b> Before occupancy permit is granted, all newly installed HVAC equipment must be tested using the Acceptance Requirements.										
The MECH-1C form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off items are required for ALL newly installed equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation, certificates, and operating and maintenance information meet the requirements of §10.105(b) and Title 24, Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy.										
TEST DESCRIPTION	MECH-2A	MECH-3A	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-11A
Equipment Requiring Testing or Verification	Qty.	Outdoor Ventilation For VAV & OAV	Constant Volume & Single-Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation DCV	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Automatic Demand Shed Control
RTU-1 - AAOH RM008	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RTU-2 - AAOH RM003	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RTU-3 - AAOH RM003	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RTU-4 - AAOH RM003	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RTU-5 - AAOH RM003	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Center 25VNA024 & FE4ANF002	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Center RA4VR024	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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TAG	MFR & MODEL	LOCATION	AREA SERVED	NOM. CAP. (TONS)	SUPPLY				COOLING				HEATING		FILTER TYPE	ELECTRICAL			UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES			
					AIRFLOW (CFM)	MIN OSA (CFM)	ESP (IN.WG.)	BHP	HP	EER	SEER	TOTAL (MBH)	SENS (MBH)	EAT DB/WB (°F)		LAT DB/WB (°F)	INTPUT (MBH)	OUTPUT (MBH)				V/PH	MCA (A)	MOCP (A)
RTU-1	AAON RN006	ROOF	CHILDREN'S LIBRARY/POP MATERIAL	6	2,800	400	2.26	1.61	2	12.5	14.3	58.0	56.0	76.3/63.4	57.6/56.4	90.0	73	MERV 13	208/3/60	—	—	83x79x44	1300	1,2,3,4,5,6,7,8,9,10,11
RTU-2	AAON RQ003	ROOF	MANAGER RM/STAFF/GROUP STUDY	3	800	350	2.07	0.55	1	13.55	15.7	37.0	26.0	81/66.2	51.1/49.4	60.0	49	MERV 13	208/3/60	—	—	83x45x45	800	1,2,3,4,5,6,8,9,10,11
RTU-3	AAON RQ003	ROOF	COMPUTER COMMONS	3	800	600	2.94	1.77	2	13.55	15.7	39.0	26.0	78.6/64.9	60.6/58.4	60.0	49	MERV 13	208/3/60	—	—	83x45x45	900	1,2,3,4,5,6,7,8,9,10,11
RTU-4	AAON RQ003	ROOF	COLLECTION & SEATING	3	2,200	300	3.06	1.92	2	13.55	15.7	38.0	38.0	76.3/63.4	59.7/57.4	60.0	49	MERV 13	208/3/60	—	—	83x45x45	900	1,2,3,4,5,6,7,8,9,10,11
RTU-5	AAON RQ005	ROOF	COMMUNITY ROOM	3	2,200	740	3.06	2	2	13.55	15.7	39.0	39.0	78.6/64.8	61.2/58.6	60.0	49	MERV 13	208/3/60	—	—	83x45x45	900	1,2,3,4,5,6,7,8,9,10,11,12

1. FUSED DISCONNECT PROVIDED BY ELEC. CONTRACTOR.
2. SEE PLUMBING PLAN FOR GAS LINE AND CONDENSATE DRAIN LINE.
3. PROVIDE 14" PRE-FABRICATED ROOF CURB WITH SPRING ISOLATORS.
4. VERTICAL DISCHARGES FOR SUPPLY AIR AND RETURN AIR.
5. PROVIDE ENVIRONMENTAL PROTECTIVE PAINT ON COILS.
6. PROVIDE MANUFACTURER THERMOSTAT THAT IS CAPABLE TO CONNECT TO BMS SYSTEM. RTU SHOULD BE CONTROLLED BY BMS.
7. PROVIDE CO2 SENSOR TO MODULATE THE OUTSIDE AIR INTAKE TO MEET THE CODE REQUIREMENT.
8. PROVIDE ECONOMIZER WITH POWER EXHAUST FAN.
9. REFRIGERANT TYPE R-410A.
10. PROVIDE CONVENIENCE POWER OUTLET.

- A. ROOFTOP UNITS SHOULD BE CONTROLLED AND MONITORED BY THE BMS. UNITS SHOULD BE ON DURING THE OPERATING HOURS.
- B. DUCT SMOKE DETECTOR IN THE MAIN SUPPLY AIR DUCT SHOULD TURN OFF RTU, WHEN SMOKE IS DETECTED.
- C. SUPPLY ROOM TEMPERATURE SHOULD BE PRE-SET AT THE BMS SYSTEM. ROOM THERMOSTAT SHOULD ALLOW THE ROOM OCCUPANTS TO ADJUST THE ROOM TEMPERATURE BY  $+/- 2^{\circ}\text{F}$ .
- D. PRESSURE SENSOR IN THE UNDERFLOW AIR PLENUM SHOULD ADJUST THE SUPPLY FAN TO INCREASE/DECREASE THE SUPPLY AIR VOLUME. PRESSURE IN THE UNDERFLOW AIR PLENUM WILL BE CHANGED BASED ON THE DIFFUSER AIR VOLUME ADJUSTMENT ON THE RAISED FLOOR.
- E. CO2 SENSOR IN THE ROOM TO MODULATE THE OUTSIDE AIR DAMPER OF RTU TO MEET THE MINIMUM AIR QUALITY REQUIREMENTS.
- F. ECONOMIZER CONTROLLER SHALL CONTROL THE RETURN AND OUTDOOR AIR DAMPERS AND POWER EXHAUST FAN FOR MAXIMUM FREE COOLING. ENTHALPHY ECONOMIZER CONTROLS SHALL BE PROVIDED. ECONOMIZER SHOULD OVERRIDE THE CO2 CONTROL.
  - 1. WHEN THE OUTDOOR ENTHALPHY IS ABOVE THE RETURN AIR ENTHALPHY, SYSTEM SHALL OPERATE WITH MINIMUM OUTDOOR AIR REQUIRED FOR VENTILATION. OSA ECONOMIZER DAMPER SHALL BE CLOSE AND THE FLOW METER AT MINIMUM OUTDOOR AIR DUCT SHALL MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN THE DESIGN MINIMUM OUTDOOR VENTILATION FOR THE SYSTEM.
  - 2. WHEN THE OUTDOOR AIR ENTHALPHY IS BELOW THE RETURN AIR ENTHALPHY AND THE OUTDOOR TEMPERATURE IS ABOVE THE DISCHARGE DUCT TEMPERATURE SETPOINT, OSA ECONOMIZER DAMPER WITH THE MINIMUM OSA DAMPER SHALL BE MODULATED TO MIX RETURN AIR AND OUTSIDE AIR TO PREVENT OVERHEATING BY DISCHARGE DUCT.
  - 3. WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE SUPPLY DUCT TEMPERATURE SETPOINT, ECONOMIZER DAMPERS SHALL BE MODULATED TO MIX RETURN AIR AND OUTSIDE AIR SO THAT THE DISCHARGE DUCT TEMPERATURE SETPOINT IS MAINTAINED.
- G. FOR THE COMMUNITY ROOM, SLIDING DOOR SWITCH SHOULD TURN OFF THE ROOFTOP UNIT FOR ANY OF THE SLIDING DOOR IS OPENED.

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	AREA SERVED	TYPE	C.F.M.	E.S.P. (IN.)	FAN R.P.M.	DRIVE	BHP	ELECTRICAL		DIMENSION LxWxH (IN)	OPER. WT. (LBS.)	REMARKS
										VOLTAGE	HP			
EF 1	COOK 100 ACE-B	ROOF	MAIN RESTROOMS	CENTRIFUGAL	640	0.35	1424	BELT	0.100	120/1/60	0.167	24x24x22	30	1,2,4
EF 2	COOK 90 ACE-D	WALL	LOUNGE	CENTRIFUGAL	180	0.25	1125	DIRECT	-	120/1/60	0.04	19x19x17	28	1,2
EF 3	COOK 70 ACE-D	ROOF	PANTRY	CENTRIFUGAL	130	0.15	1550	DIRECT	-	120/1/60	0.05	14x14x14	25	1,2,4
EF 4	COOK 70 ACE-D	ROOF	COMMUNITY RESTROOMS	CENTRIFUGAL	70	0.15	2107	DIRECT	-	120/1/60	0.04	14x14x14	25	1,2,4
EF 5	COOK 70 ACE-D	ROOF	ELECTRICAL ROOM	CENTRIFUGAL	130	0.20	1700	DIRECT	-	120/1/60	0.05	14x14x14	25	2,3,4
GV 1	COOK 8 PR	ROOF	AV ROOM	GRAVITY	20	0.15	-	-	-	-	-	19X19X8	-	4

1. PROVIDE PROGRAMMABLE CONTROL TO TURN ON THE FAN DURING OPERATING HOURS BY BMS SYSTEM.
2. EXHAUST AIR DISCHARGE MUST BE 10' AWAY FROM ANY FRESH AIR INTAKE.
3. EXHAUST FAN SHOULD BE ON BY ROOM THERMOSTAT WHEN ROOM TEMPERATURE IS HIGHER THAN 85°F. SYSTEM SHOULD BE MONITORED BY BMS SYSTEM.
4. PROVIDE MANUFACTURED ROOF CURB.

[illegible]

1. FUSE DISCONNECT BY ELECTRICAL CONTRACTOR
2. SIZE REFRIGERANT PIPES PER MANUFACTURER'S INSTALLATION MANUAL AND ACTUAL CONSTRUCTION CONDITIONS
3. INSULATE REFRIGERANT PIPES PER MANUFACTURER'S RECOMMENDATIONS
4. PROVIDE FLEXIBLE SA & RA DUCT CONNECTIONS.
5. PROVIDE CEILING ACCESS PANEL FOR UNIT MAINTENANCE.

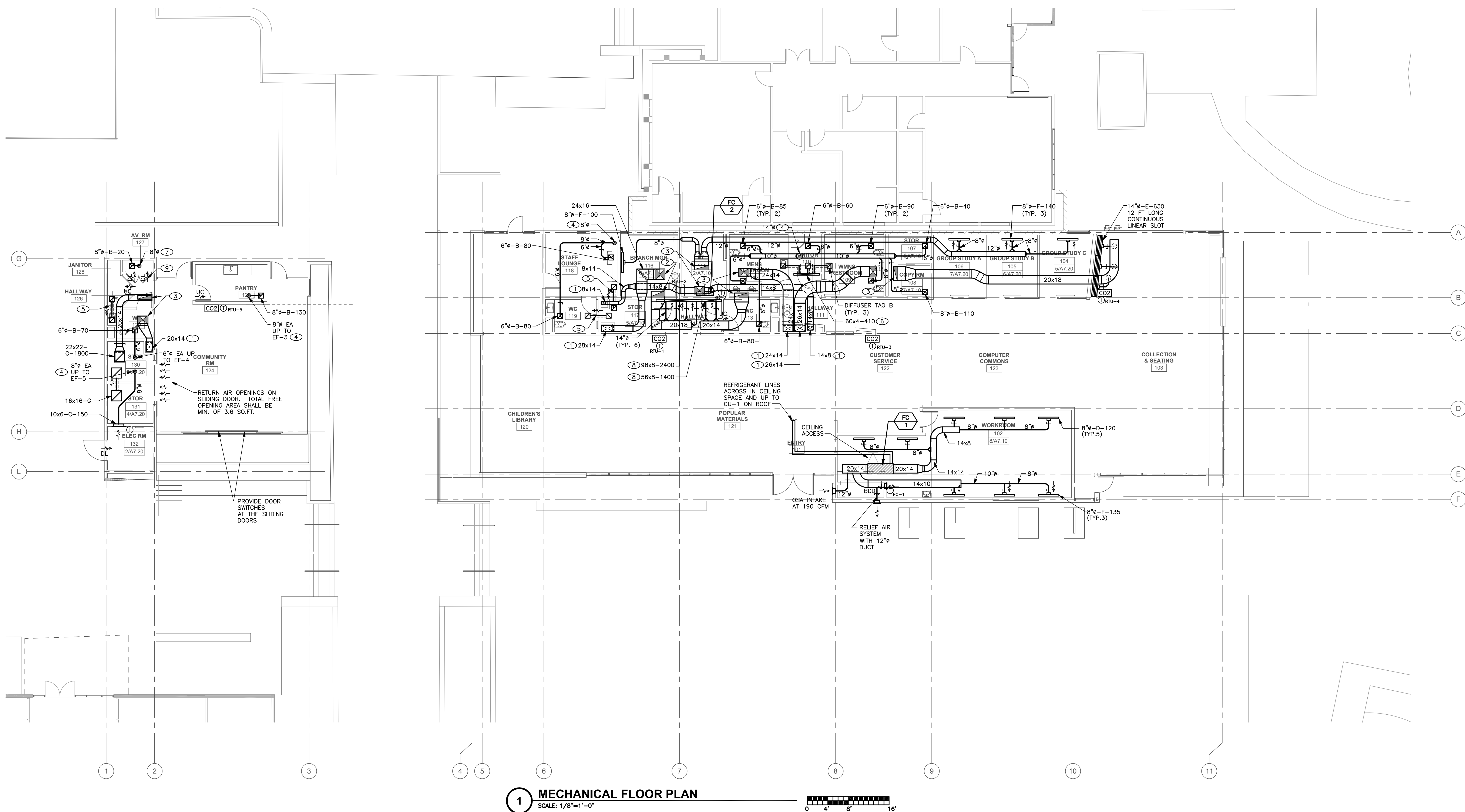
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1. FUSED DISCONNECT PROVIDED BY ELEC CONTRACTOR.
2. CAPACITY RATED AT ARI STANDARD CONDITIONS.
3. INSULATE REFRIGERANT PIPES PER MANUFACTURER'S RECOMMENDATIONS
4. SIZE REFRIGERANT PIPES PER UNIT MANUFACTURER'S INSTALLATION MANUAL AND ACTUAL CONSTRUCTION CONDITIONS.
5. MOUNT ON LEVELLED PLATFORM WITH NEOPRENE PAD. THE SHALLOW SIDE OF THE PLATFORM MUST BE MIN. 4" ABOVE THE ROOF.

TAG	MFR	MODEL	DESCRIPTION	FACE TYPE	FACE SIZE (IN.)	COLOR / FINISH	MATERIAL	OBD	NOTES
A	KRUEGER	PDPFR-R	RAISED FLOOR DIFFUSOR	CURVED SLOT	9 3/4"	PER ARCHITECT	POLYCARBONATE	NO	1,2,3,4,5,8
B	TITUS	CEL22	CEILING RETURN/EXHAUST GRILLE	SURFACE MOUNT	12"x12"	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5
C	TITUS	3FL	CEILING RETURN/EXHAUST GRILLE	SURFACE MOUNT	DUCT SIZE + 3"	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5
D	TITUS	ML-39	SLOT SUPPLY	(2) 1" SLOTS	48" X 4" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5
E	TITUS	MLR-39	SLOT RETURN	(4) 1" SLOTS	48" X 8" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5,7
F	TITUS	MLR-39	SLOT RETURN	(2) 1" SLOTS	48" X 4" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,6,7
G	TITUS	PAR-AA	CEILING RETURN/EXHAUST GRILLE	SURFACE MOUNT	24"x24"	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5

1. MAXIMUM TOTAL PRESSURE DROP SHALL BE 0.1" WG.
2. MAXIMUM NC LEVEL SHALL BE 35.
3. ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.
4. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.
5. NECK SIZE AND CFM SHOWN ON PLANS (E.G. 12x12-A-400 REFERS TO TAG "A" WITH 12x12 NECK AND 400 CFM).
6. PLENUM CONNECTION SIZE, SLOT LENGTH, AND CFM SHOWN ON PLANS (E.G. 8-120-A-2000 REFERS TO TAG "A" WITH 8" ROUND CONNECTION(S), 120" CONTINUOUS SLOT LENGTH AND 2000 CFM).
7. PROVIDE MANUFACTURER'S INSULATED PLENUM.
8. PROVIDE DIRT RECEPTACLE WITH VOLUME DAMPER OF ROTATING FACE.





A. MATERIALS EXPOSED IN RETURN AIR PLENUM SHALL COMPLY WITH SECTION 602.2 OF 2010 CMC.

- ① SUPPLY AIR DUCT DOWN TO THE RAISED FLOOR AIR PLENUM LEVEL.
- ② 25"x22"SA AND 32"x13"RA DUCTS UP TO HVAC UNIT ON ROOF (RTU-1).
- ③ 24"x18"SA AND 33"x9"RA DUCTS UP TO HVAC UNIT ON ROOF.
- ④ EXHAUST AIR DUCT UP TO EXHAUST FAN ON ROOF.
- ⑤ 10"ø TRANSFER AIR DUCT WITH LINING.
- ⑥ TRANSFER AIR PLENUM FROM HALLWAY TO RESTROOMS. 10"ø TRANSFER AIR DUCT TO MEN'S RESTROOM AT 170 CFM. 10"ø TRANSFER AIR DUCT TO JANITOR ROOM AT 110 CFM. 10"ø TRANSFER AIR DUCT TO WOMEN'S RESTROOM AT 180 CFM.
- ⑦ RELIEF AIR DUCT UP TO VENT ON ROOF WITH BAROMETRIC DAMPER.
- ⑧ PROVIDE 8" WIDE CONTINUOUS RETURN AIR SLOT.
- ⑨ PROVIDE 24"x24" DOOR LOUVER ON EACH DOOR FOR THE AV ROOM.

**PICO BRANCH LIBRARY**

2201 Pico Blvd.  
Santa Monica, CA 90404

## PROJECT

**KoningEizenbergArchitecture**  
1454 25th St, Santa Monica, CA 90404  
310.828.6131 info@kearch.com  
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.

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617 W. 7th Street, Suite 500  
Los Angeles, CA 90017  
T. 213.239.8866 F. 213.239.8816  
www.glumac.com  
Job No.: 06.11.00192  
Contact: E. LEE

engineers for a sustainable future<sup>2</sup>

## CONSULTANT



City of  
**Santa Monica**  
Architecture Services

1437 4TH STREET, SUITE 300  
SANTA MONICA, CA 90401  
TEL. ( 310 ) 458-2205  
FAX. ( 310 ) 399-1541  
architecture@smgov.net

DATE: \_\_\_\_\_ 20\_\_

DATE: 20  
APPROVED BY:  
Miriam Mulder,  
Architecture Services Manager

CITY OF SANTA MONICA  
DEPARTMENT OF PUBLIC WORKS

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REVIEWED BY :      DATE :      20

## CITY CLIENT

A	05/07/12		PLAN CHECK 1
B	03/06/12		ADDENDUM 3
C	02/21/12		ADDENDUM 2
NO.	DATE	BY	DESCRIPTION

**R E V I S I O N S**

ISSUE

### PLAN CHECK CORRECTIONS

DATE  
05/07/2012

DRAWING NO. **6693**

SHEET TITLE

**MECHANICAL  
FLOOR PLAN**

SHEET NO.

## M2.0



GENERAL NOTES

- A. MATERIALS EXPOSED IN RAISED FLOOR AIR PLENUM SHALL COMPLY WITH SECTION 602.2 OF 2010 CMC.
- B. FLOOR DIFFUSERS AS SHOWN ON PLAN ARE DIAGRAMMATIC. EXACT LOCATION OF THE DIFFUSERS TO BE DETERMINED PER FIELD CONDITIONS DURING CONSTRUCTION. THE QUANTITY OF DIFFUSERS FOR EACH ZONE SHOULD BE THE SAME AS SHOWN ON PLAN.

SHEET NOTES

- 1 SUPPLY AIR DUCT UP TO CEILING LEVEL
- 2 TEMPERATURE CONTROL ZONING
- EACH ZONE IS SERVED BY INDIVIDUAL ROOFTOP UNIT. ZONING UNDERFLOOR SUPPLY AIR PLENUM MUST BE AIRTIGHT.

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2201 Pico Blvd.  
Santa Monica, CA 90404

PROJECT

KoningEisenbergArchitecture  
1454 29th St. Santa Monica, CA 90404  
310.828.6131 info@kearch.com  
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.

1001

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GLUMAC

617 W. 7th Street, Suite 500  
Los Angeles, CA 90017  
T: 213.239.8866 F: 213.239.8816  
www.glumac.com  
Jed No. 06-11-00102  
Contact: E. LEE

engineers for a sustainable future™

CONSULTANT

City of Santa Monica  
Architecture Services

1437 4TH STREET, SUITE 300  
SANTA MONICA, CA 90401  
TEL: (310) 458-2205  
FAX: (310) 399-1541  
architecture@smgov.net

SUBMITTED BY: DATE: 20

APPROVED BY: DATE: 20

Miriam Mulder  
Architecture Services Manager  
CITY OF SANTA MONICA  
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

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05/07/12	PLAN CHECK 1
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02/21/12	ADDENDUM 2
NO. DATE BY DESCRIPTION	

REVISIONS

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PLAN CHECK CORRECTIONS

DATE: 05/07/2012  
DRAWING NO. 6693

SHEET TITLE  
MECHANICAL FLOOR PLAN (UNDERFLOOR)

SHEET NO.

M2.1

1 MECHANICAL FLOOR PLAN (UNDERFLOOR)

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

