



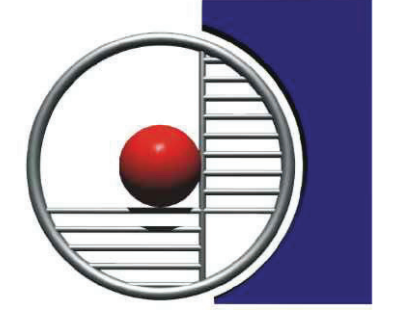
INDOOR UNIT SCHEDULE			
MARK	IDU A1	IDU C1	IDU D1
CFM (LOW / MED / HIGH)	290 / 350 / 420	290 / 350 / 420	290 / 350 / 420
ESP (IN WC)			
MINIMUM OSA (CFM)	45	45	45
HP / BHP / WATTS			
VOLTAGE/PHASE	(1)	(1)	(1)
MCA / MOCP	0.2 /	0.2 /	0.2 /
RPM			
DRIVE	DIRECT	DIRECT	DIRECT
MOUNTING	CEILING	CEILING	CEILING
COOLING:			
TOTAL (MBH)	16	16	16
SENSIBLE (MBH)			
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	95	95	95
REFRIGERANT	R410A	R410A	R410A
LIQUID LINE SIZE	1/4"	1/4"	1/4"
SUCTION LINE SIZE	1/2"	1/2"	1/2"
CONDENSATE CONN	1"	1"	1"
SEER / EER AT AHRI	20 / 12.5	20 / 12.5	20 / 12.5
HEATING:			
CAPACITY (MBH)	18	18	18
EADB (°F)	70	70	70
AMBIENT DB (°F)	47	47	47
HSPF / COP	10.3 / 2.88	10.3 / 2.88	10.3 / 2.88
FILTERS:			
QUANTITY / SIZE			
TYPE	WASHABLE	WASHABLE	WASHABLE
PD, CLEAN (IN WC)			
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	40MBCQ18	40MBCQ18	40MBCQ18
CONTROL	TSTAT (3)	TSTAT (3)	TSTAT (3)
SERVICE	SEE PLANS	SEE PLANS	SEE PLANS
OP WEIGHT (LBS)	45	45	45
ACCESSORIES	(2)	(2)	(2)
NOTES:	(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT (2) BUILT-IN CONDENSATE PUMP (3) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT		

PACKAGE AIR CONDITIONING UNIT SCHEDULE															
MARK	AC C1	AC C2	AC C3	AC C4	AC C5	AC D1	AC D2	AC D3	AC D4	AC D5	AC E1	AC E2	AC E3	AC E4	AC E5
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
MCA / MOCP	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25
FLA / LRA	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53
FUSE SIZE	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
BLOWER:															
CFM	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
DUCT SP (IN WC)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MINIMUM OSA (CFM)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
HP / BHP	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING:															
TOTAL (MBH)	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
SENSIBLE (MBH)	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
REFRIGERANT	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
CONDENSATE CONN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:															
CAPACITY (MBH)	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
EADB (°F)	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
AMBIENT DB (°F)	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
HSPF/COP	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7
FILTERS:															
RA: QUANTITY / SIZE	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2
TYPE	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
PD, CLEAN (IN WC)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1
TYPE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05	50GQCM05
CONTROL	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)
SERVICE	CLASSROOM C-1	CLASSROOM C-2	CLASSROOM C-3	CLASSROOM C-5	CLASSROOM C-6	CLASSROOM D-1	CLASSROOM D-2	CLASSROOM D-3	CLASSROOM D-5	CLASSROOM D-6	CLASSROOM E-1	CLASSROOM E-2	CLASSROOM E-3	CLASSROOM E-4	CLASSROOM E-5
OP WEIGHT (LBS)	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
ACCESSORIES	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)
NOTES:	(1) INSULATED ROOF CURB TO MATCH ROOF SLOPE (2) HEAVY DUTY CONDENSER COIL GUARD (3) HINGED ACCESS PANELS (4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION (5) DISCONNECT BY DIV 26 ELECTRICAL (6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT														

OUTDOOR UNIT SCHED			
MARK	ODU A1	ODU C1	ODU D1
MCA / MOCP	16 / 25	16 / 25	16 / 25
FUSE SIZE	20	20	20
VOLTAGE/PHASE	208-230/1	208-230/1	208-230/1
COOLING:			
TOTAL (MBH)	16	16	16
AMBIENT DB (°F)	95	95	95
SEER / EER AT AHRI	20 / 12.5	20 / 12.5	20 / 12.5
HEATING:			
CAPACITY (MBH)	18	18	18
AMBIENT DB (°F)	47	47	47
HSPF / COP	10.3 / 2.88	10.3 / 2.88	10.3 / 2.88
REFRIGERANT	R410A	R410A	R410A
LIQUID LINE SIZE	1/4"	1/4"	1/4"
SUCTION LINE SIZE	1/2"	1/2"	1/2"
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	38MARBQ18	38MARBQ18	38MARBQ18
SERVICE	IDU-A1	IDU-C1	IDU-D1
OP WEIGHT (LBS)	105	105	105
ACCESSORIES	(1),(2),(3),(4)	(1),(2),(3),(4)	(1),(2),(3),(4)
NOTES:	(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT (2) CRANKCASE HEATER (3) LOW AMBIENT COOLING OPERATION TO 40°F (4) DISCONNECT BY DIV 26 ELECTRICAL		

PACKAGE AIR CONDITIONING UNIT SCHEDULE					
MARK	AC A1	AC A2	AC A3	AC A4	AC A5
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3
MCA / MOCP	27 / 30	27 / 30	27 / 30	27 / 30	27 / 30
FLA / LRA	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
FUSE SIZE	30	30	30	30	30
BLOWER:					
CFM	2000	2000	2000	2000	2000
DUCT SP (IN WC)	0.8	0.8	0.8	0.8	0.8
MINIMUM OSA (CFM)	150	150	150	150	150
HP / BHP	1.5 / 1.19	1.5 / 1.19	1.5 / 1.19	1.5 / 1.19	1.5 / 1.19
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING:					
TOTAL (MBH)	58.6	58.6	58.6	58.6	58.6
SENSIBLE (MBH)	47.5	47.5	47.5	47.5	47.5
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105	105	105
REFRIGERANT	R410A	R410A	R410A	R410A	R410A
CONDENSATE CONN	3/4"	3/4"	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:					
CAPACITY (MBH)	55.9	55.9	55.9	55.9	55.9
EADB (°F)	70	70	70	70	70
AMBIENT DB (°F)	47	47	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5	5.5	5.5
HSPF/COP	8.3/3.9	8.3/3.9	8.3/3.9	8.3/3.9	8.3/3.9
FILTERS:					
RA: QUANTITY / SIZE	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2
TYPE	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
PD, CLEAN (IN WC)	0.3	0.3	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1
TYPE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	50GQCM06	50GQCM06	50GQCM06	50GQCM06	50GQCM06
CONTROL	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)	TSTAT (6)
SERVICE	MPR	MPR	MPR	MPR	KITCHEN
OP WEIGHT (LBS)	800	800	800	800	800
ACCESSORIES	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(5),(7),(8),(9)
NOTES:	(1) INSULATED ROOF CURB TO MATCH ROOF SLOPE (2) HEAVY DUTY CONDENSER COIL GUARD (3) HINGED ACCESS PANELS (4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION (5) DISCONNECT BY DIV 26 ELECTRICAL (6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT (7) SMOKE DETECTOR IN SUPPLY AIR DUCT TO SIGNAL FAN SHUT DOWN AND FIRE ALARM SYSTEM (8) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR POWERED BY UNIT, IWAIVE-C (9) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, AND BAROMETRIC RELIEF				

GRILLE SCHEDULE		
MARK	LOCATION	DESCRIPTION
A	CEILING SUPPLY	



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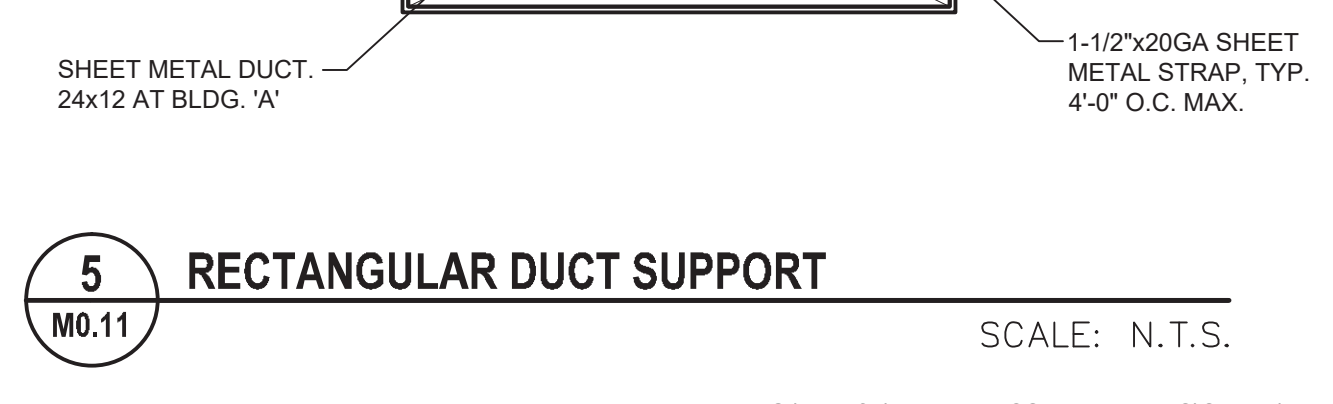
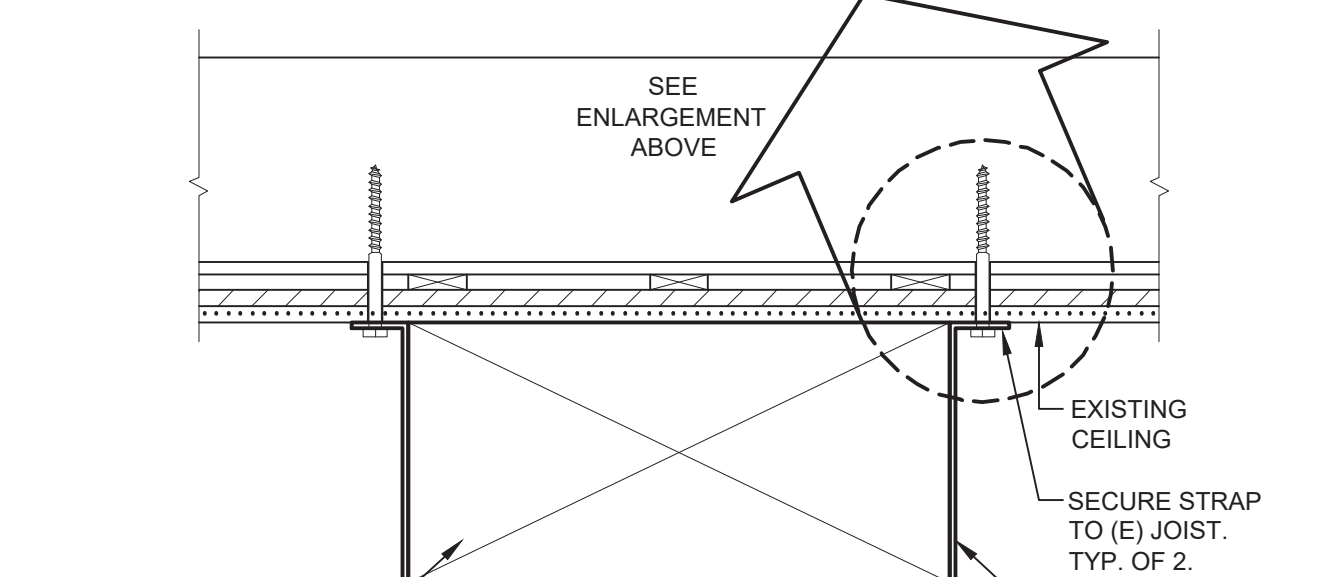
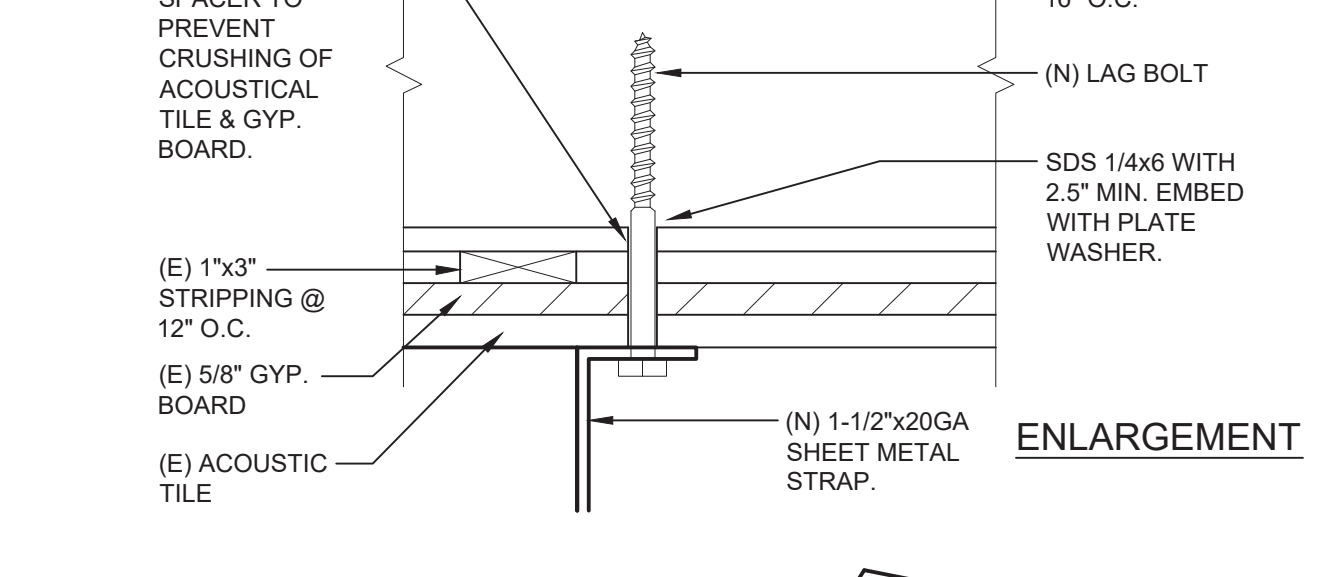
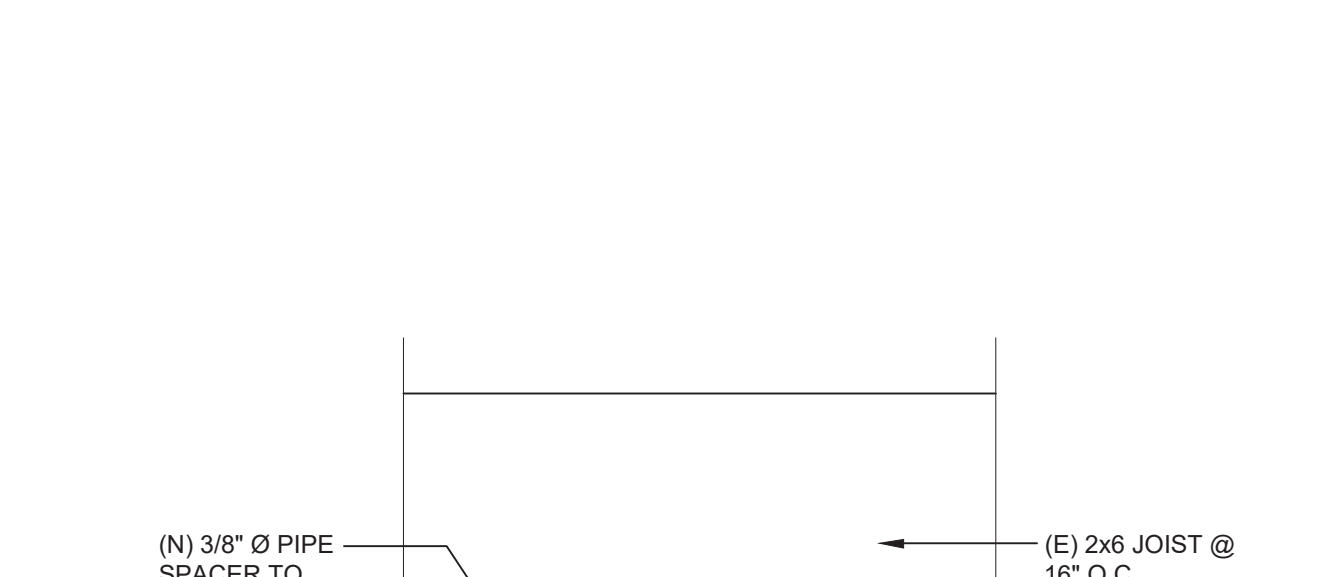
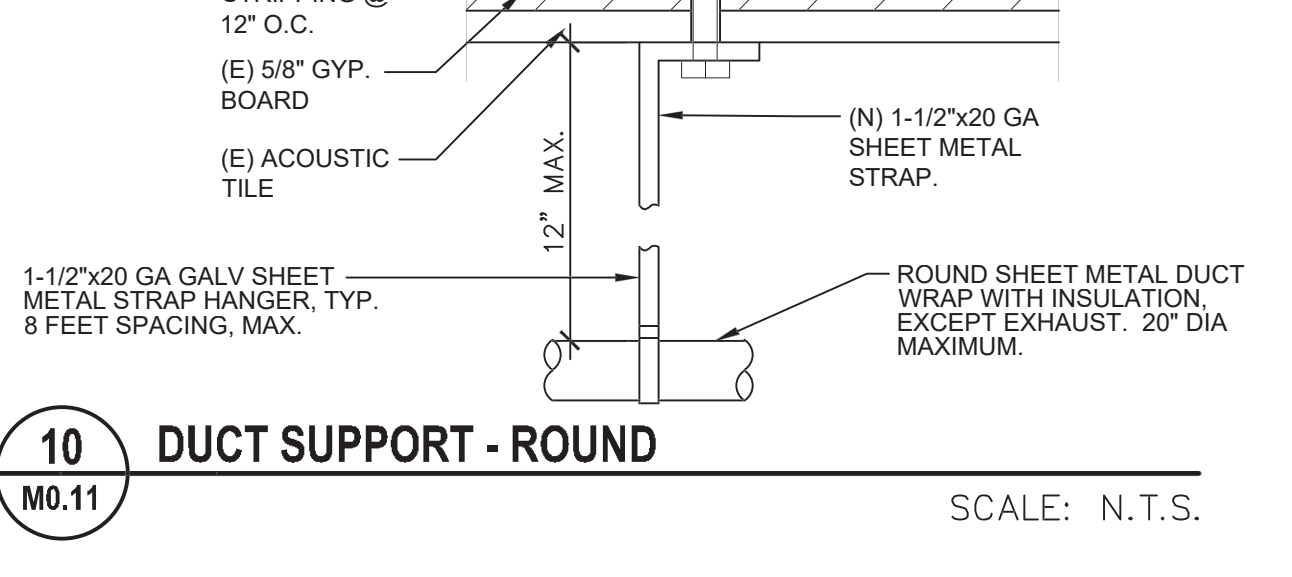
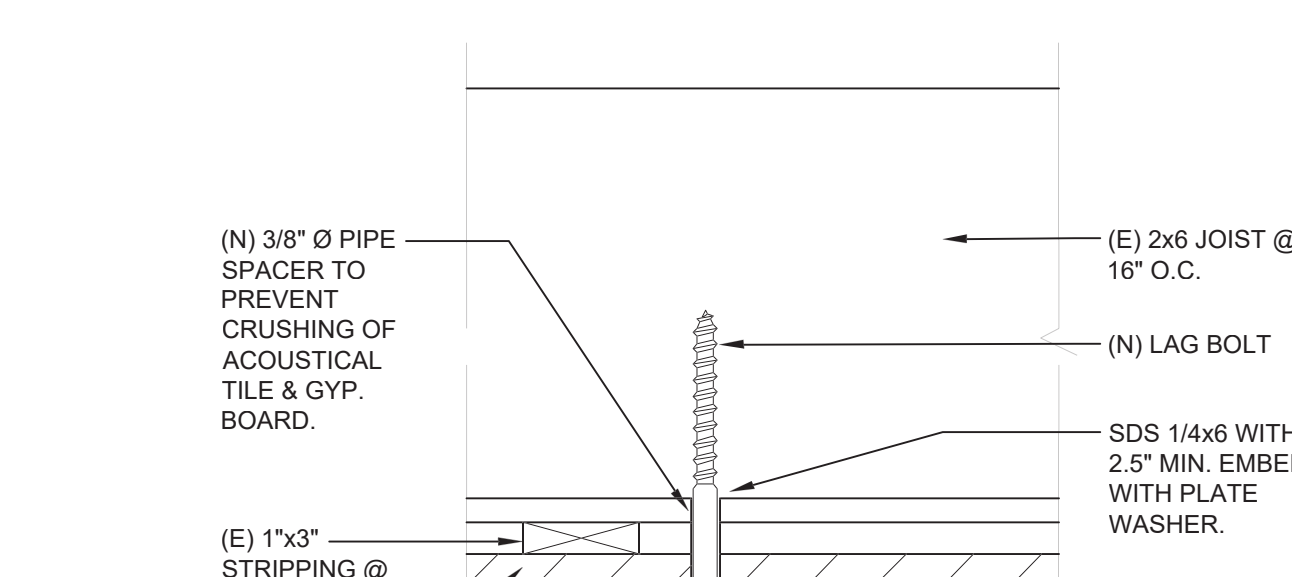
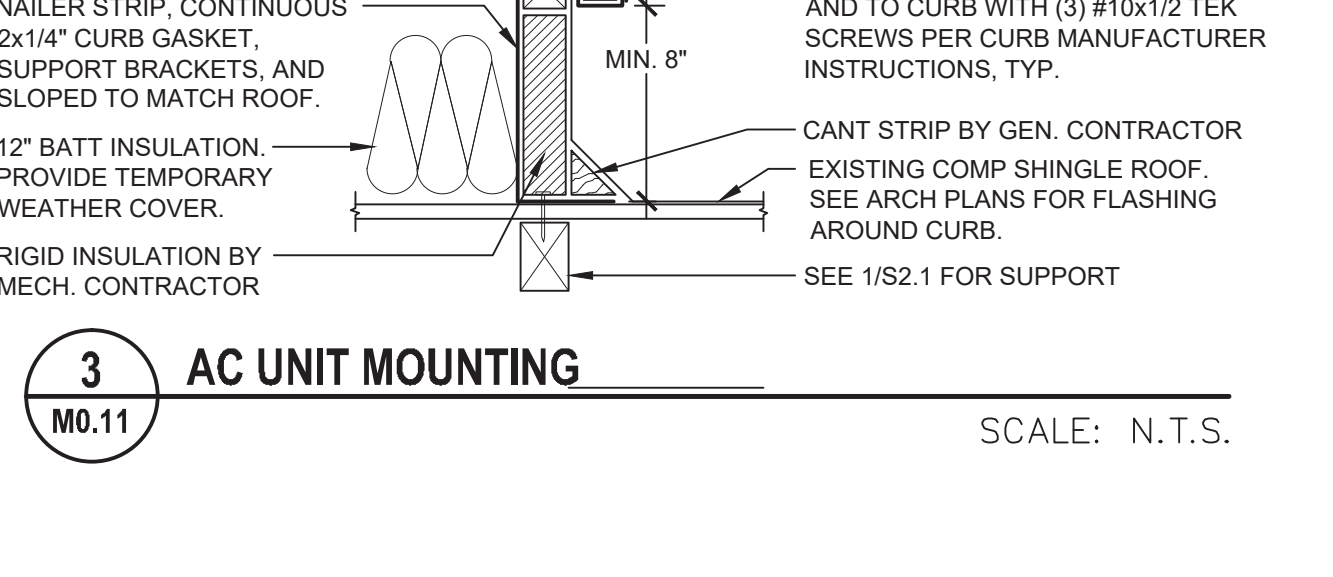
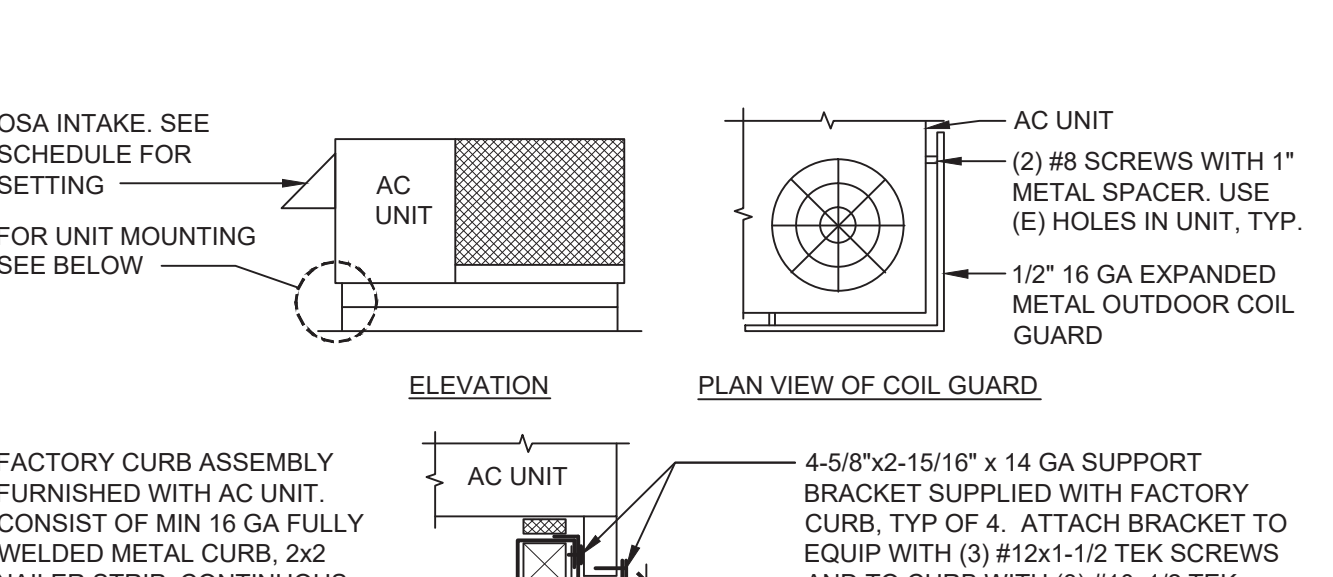
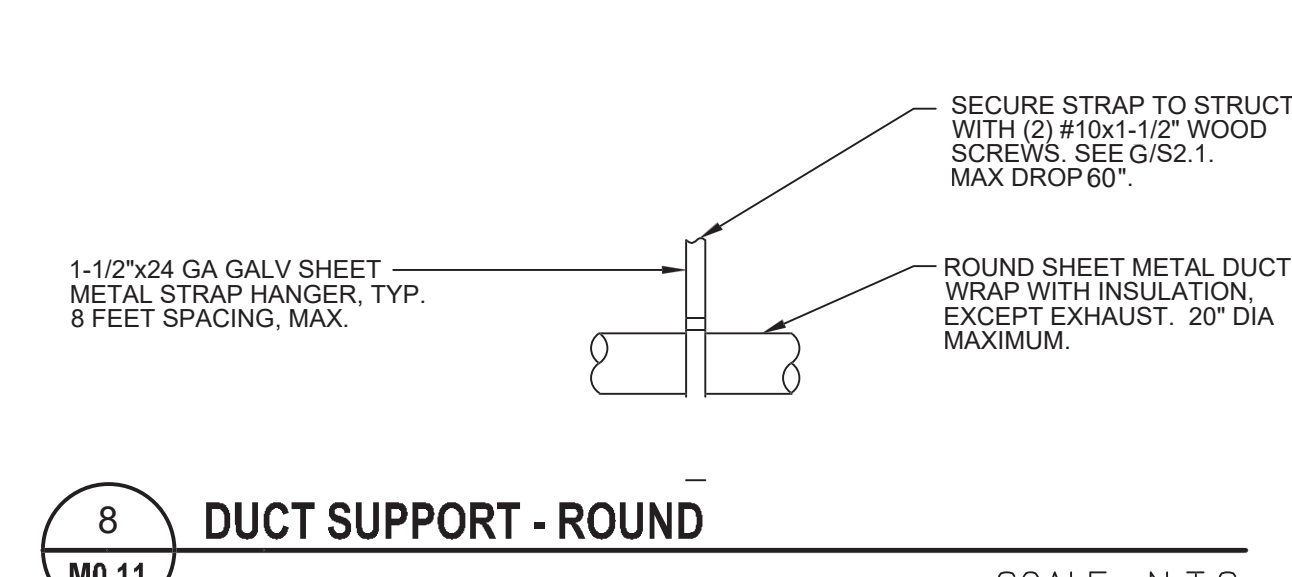
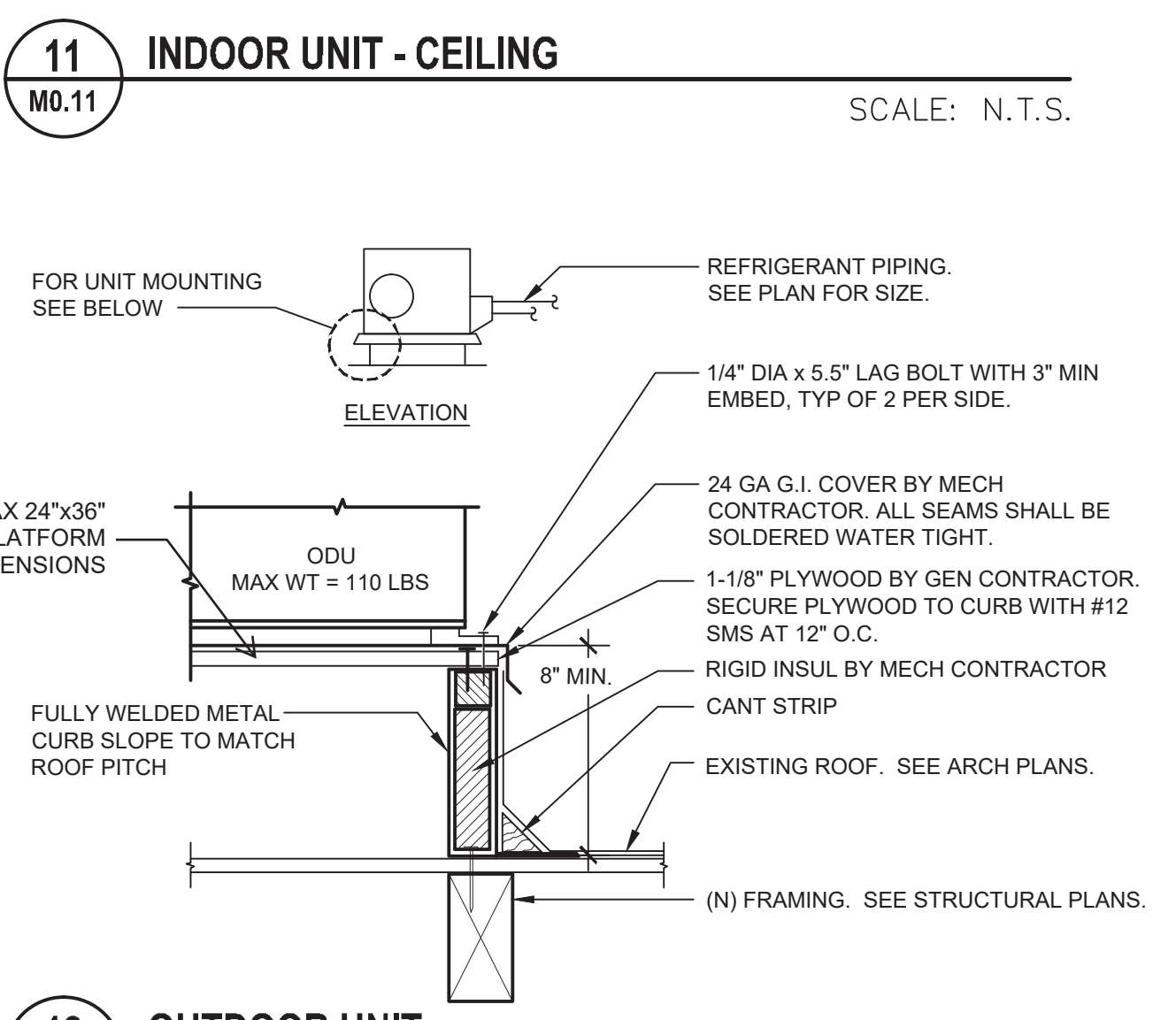
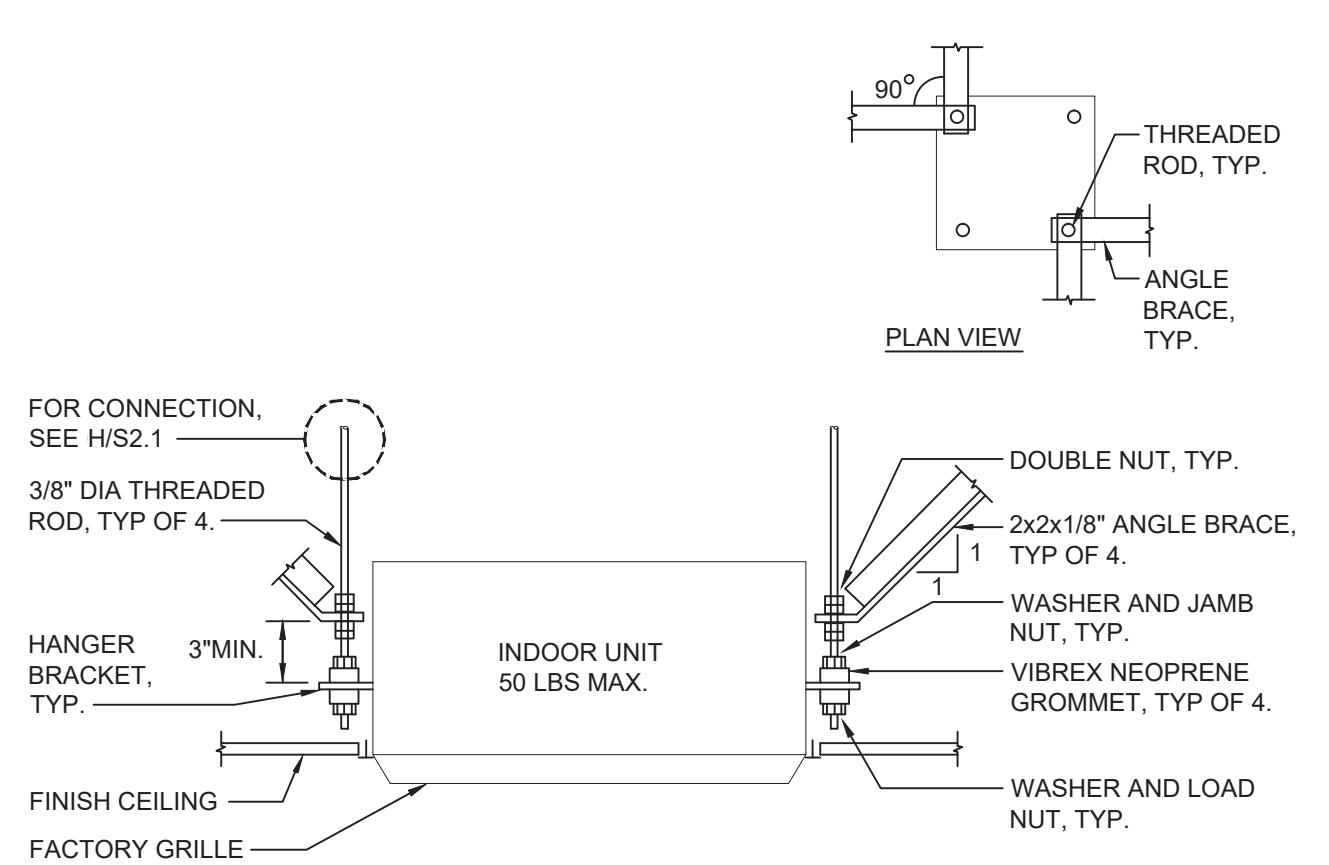
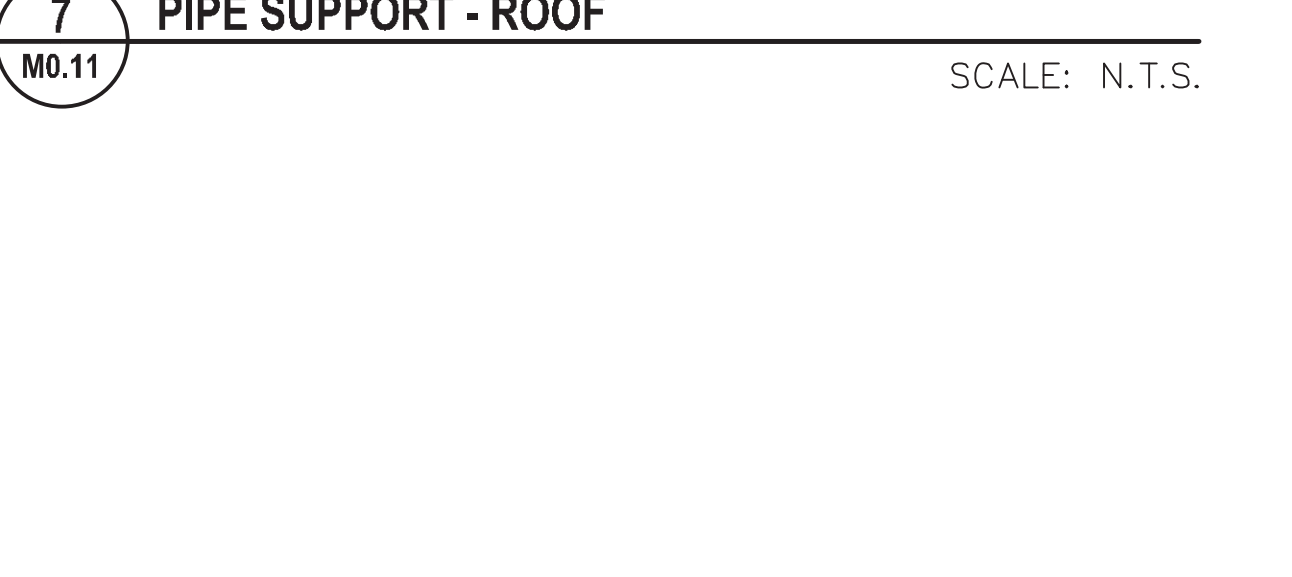
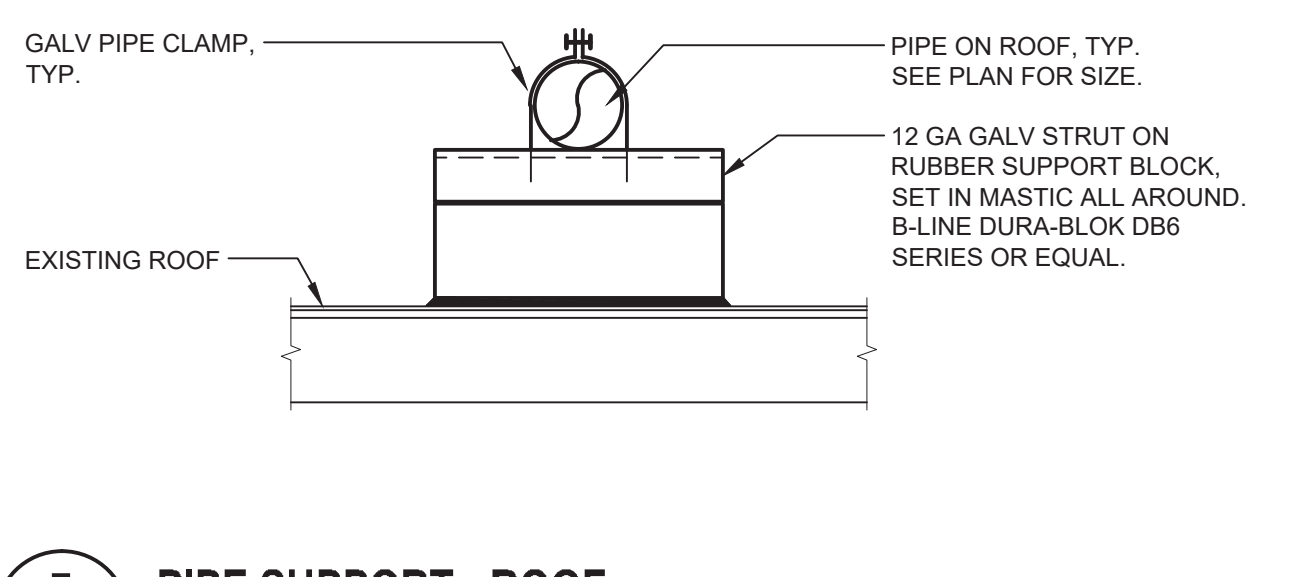
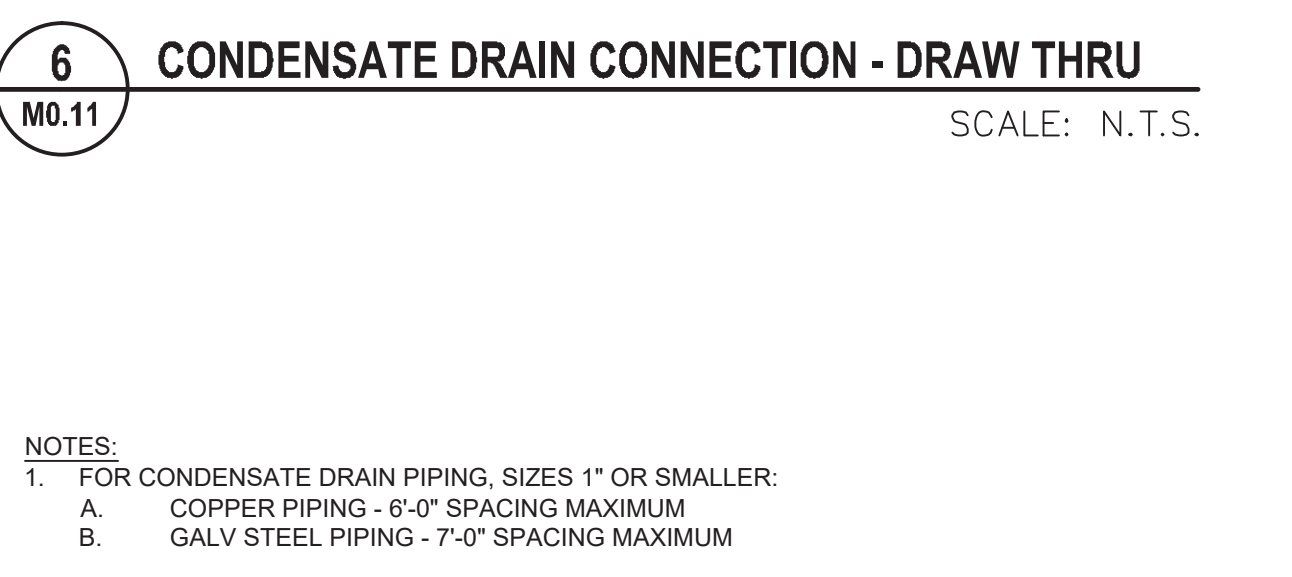
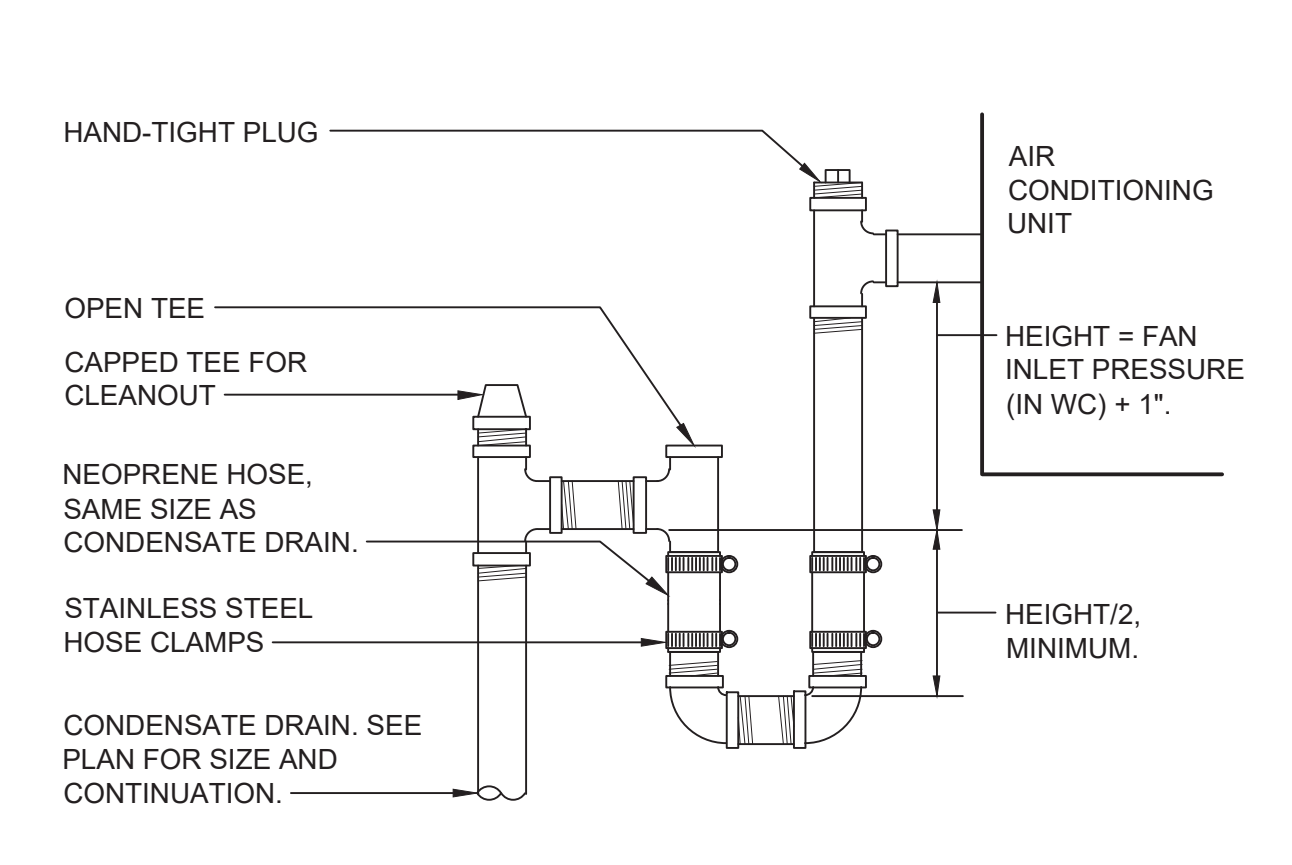
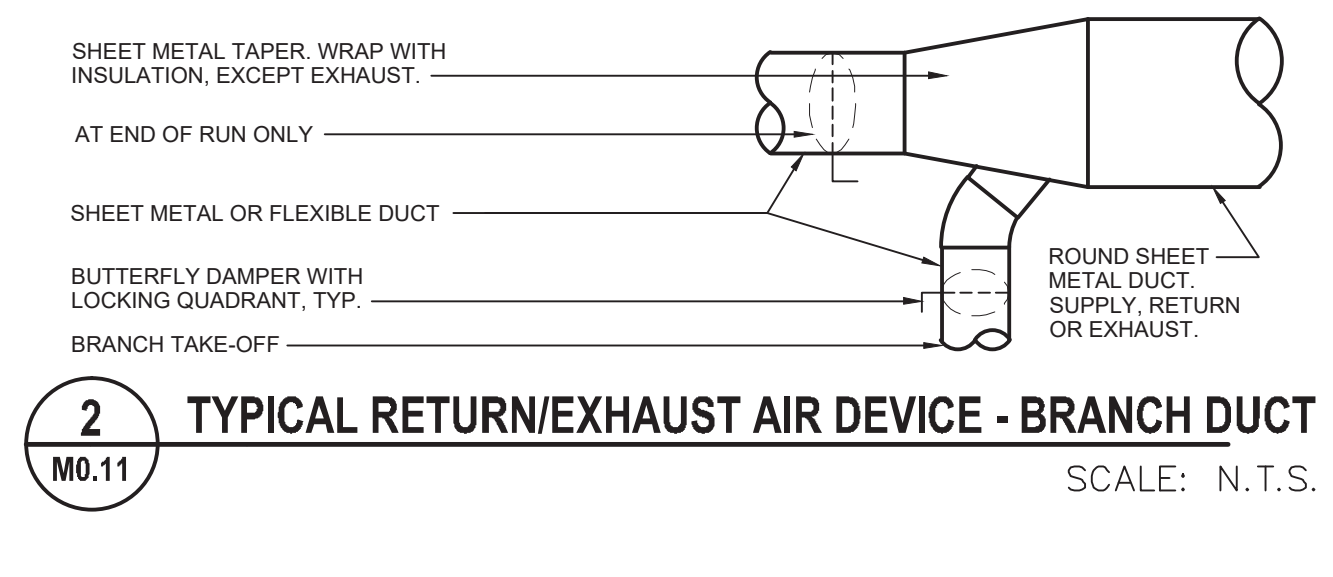
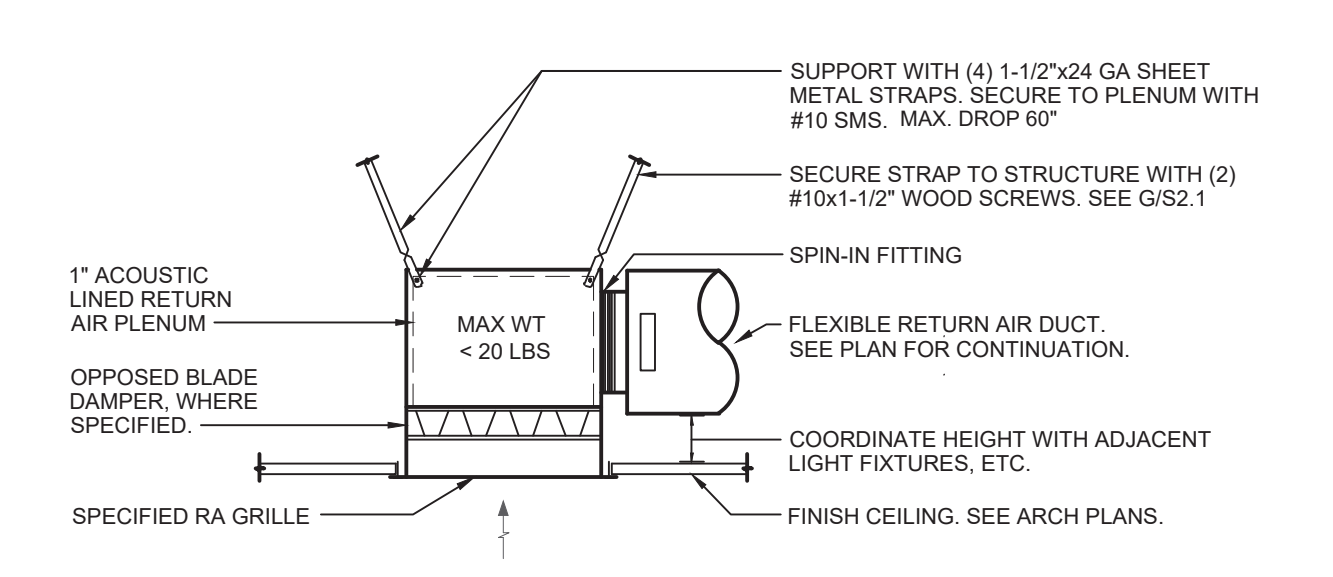
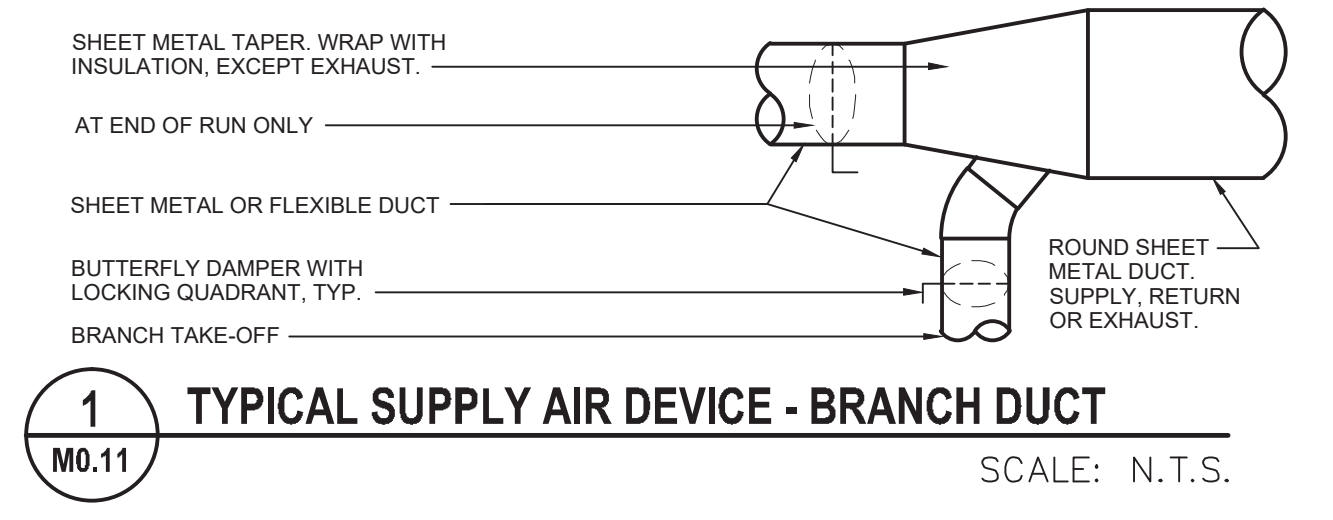
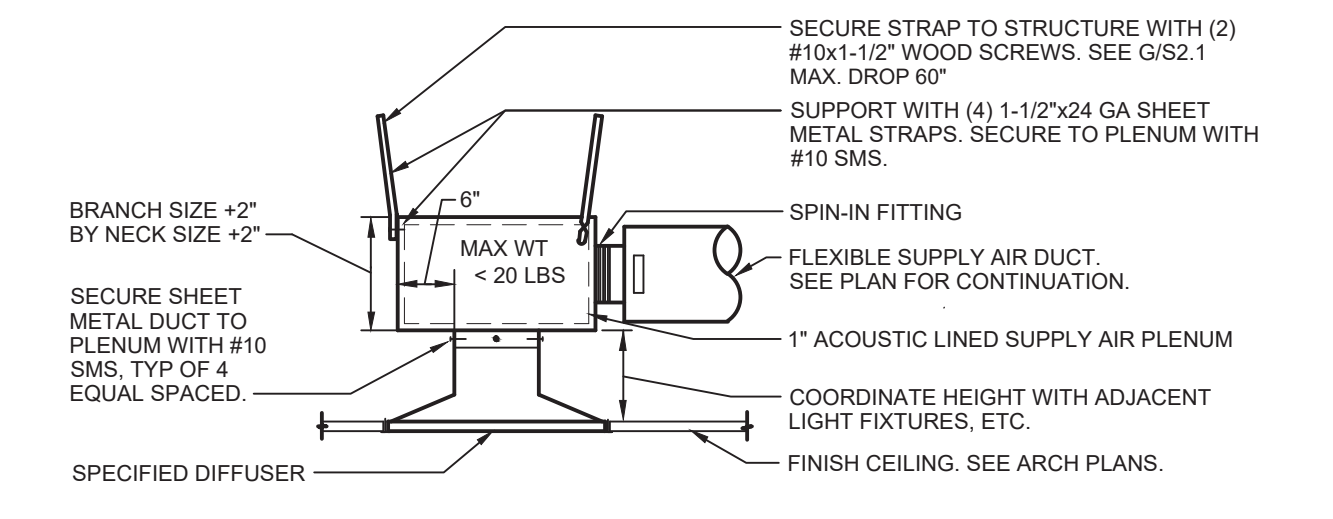


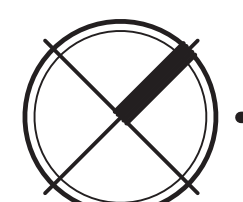
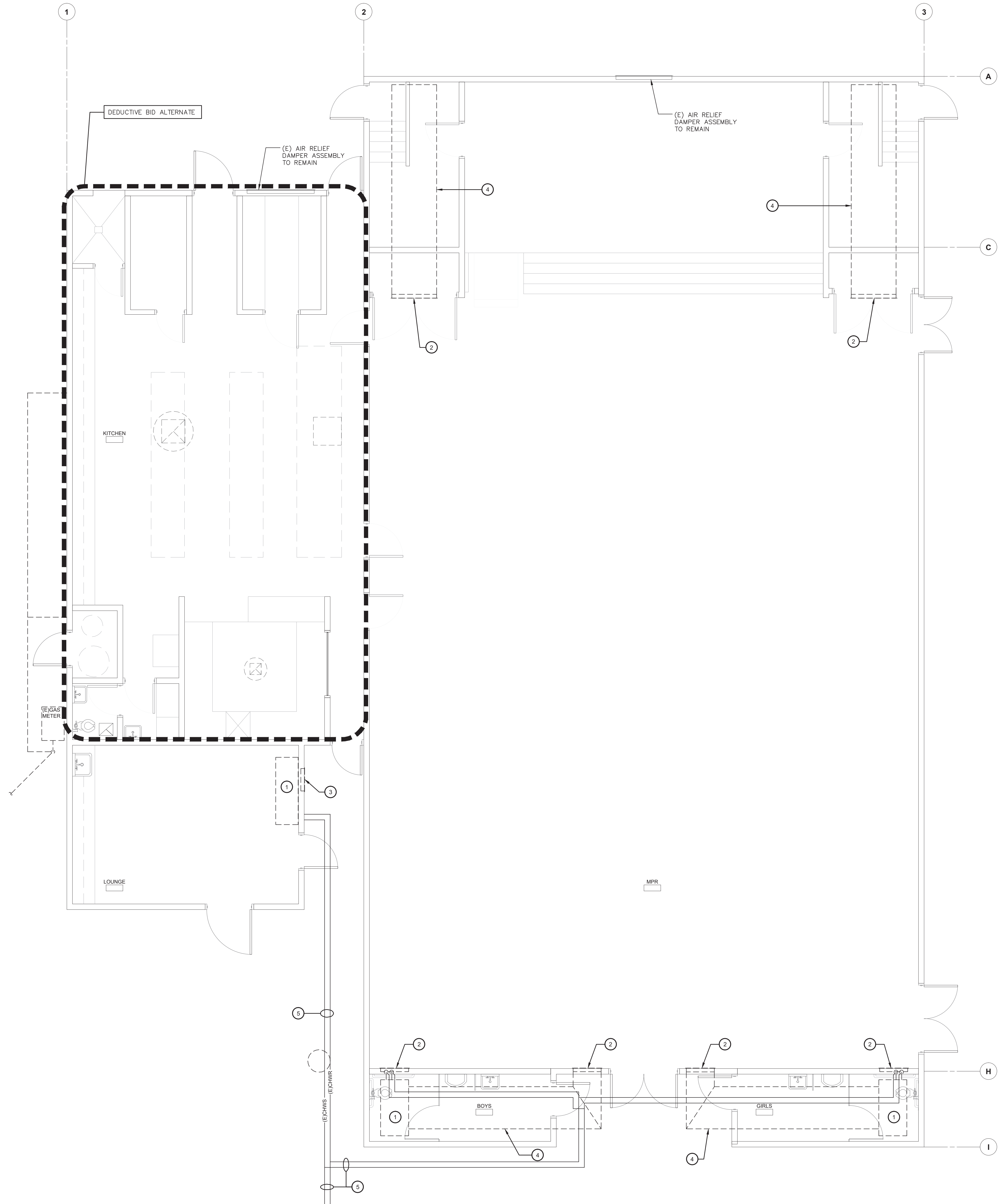
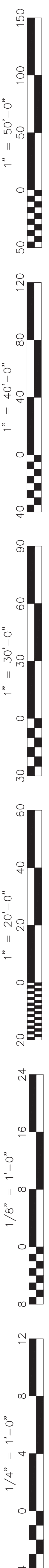
Sheet Title:

DETAILS

Job No.: **5524**

Sheet No.: **M0.11**
 Release: **DSA SUBMITTAL** 11/28/22





MECHANICAL PLAN - BLDG A - DEMO
HVAC REPLACEMENT

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

KEY NOTES

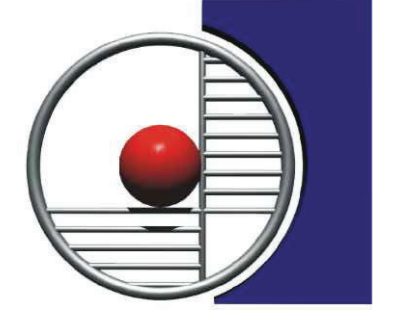
1. REMOVE EXISTING FAN COIL AND ALL RELATED COMPONENTS, DUCTWORK, PIPING, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
2. REMOVE EXISTING WALL GRILLE AND DUCTWORK. PATCH OPENING TO MATCH EXISTING, TYP.
3. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENING TO MATCH EXISTING, TYP.
4. REMOVE EXISTING DUCTWORK. PATCH OPENING TO MATCH EXISTING, TYP.
5. REMOVE EXISTING HYDRONIC PIPING ON ROOF AND ALL RELATED COMPONENTS, TYP. PATCH TO MATCH EXISTING, TYP.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 FRESNO, CA. 93706

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309



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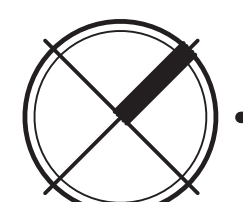
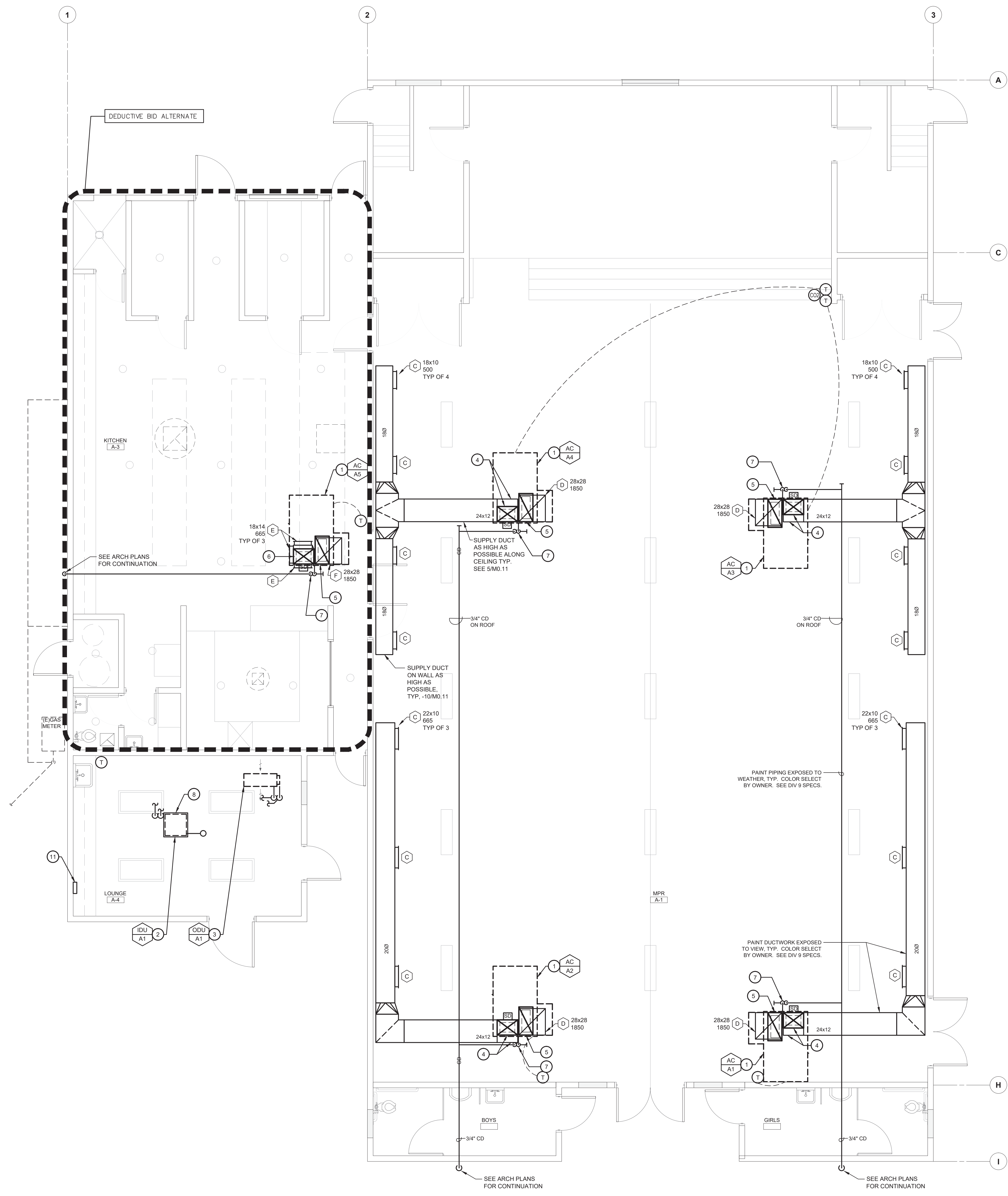
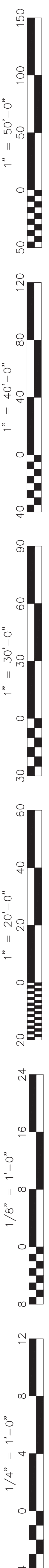
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MECHANICAL PLAN - BLDG A

Job No.:
5524

Sheet No.:
M2.11
 Release: DSA SUBMITTAL 11/28/22



MECHANICAL PLAN - BLDG A - IMPROVEMENTS
HVAC REPLACEMENT

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

KEY NOTES

1. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 28x12(L) RA PLENUM DROP. PROVIDE TRANSITIONS AS NEEDED. SEE 3/M0.11
2. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND CGA DUCT THRU ROOF, TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 11/M0.11
3. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 12/M0.11
4. TRANSITION TO 24x12 SUPPLY DUCT BELOW CEILING
5. TRANSITION TO 28x28 RETURN DUCT AND CONNECT TO CEILING RETURN GRILLE.
6. TRANSITION TO 20x20 SUPPLY DUCT BELOW CEILING. BOTTOM OF DUCT AT 18" BELOW CEILING.
7. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
8. INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING.
9. NOT USED
10. NOT USED
11. HVAC WIRELESS GATEWAY. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET AND ETHERNET CONNECTION.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 FRESNO, CA. 93706

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309

integrated designs
 by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN
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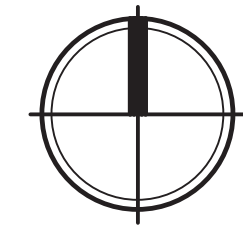
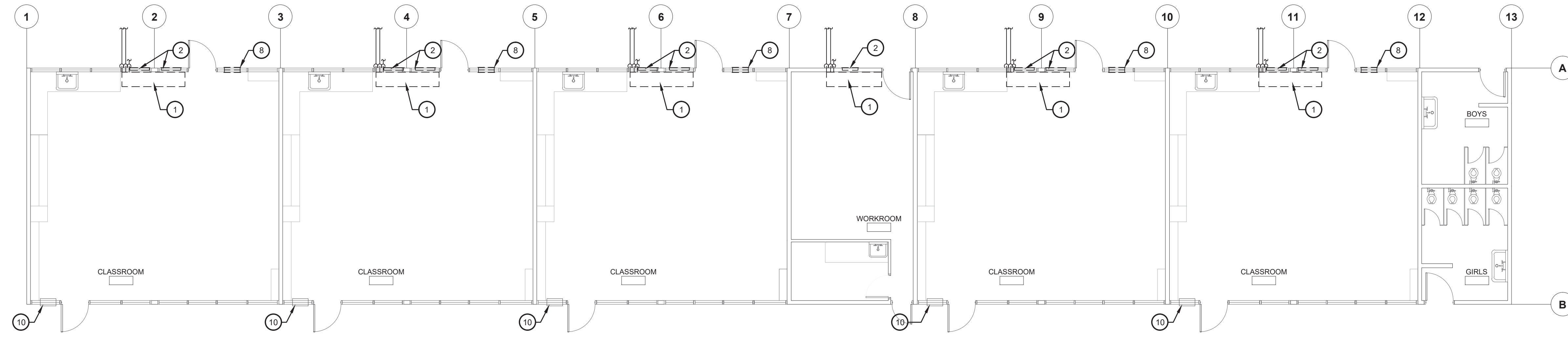
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Job No.:
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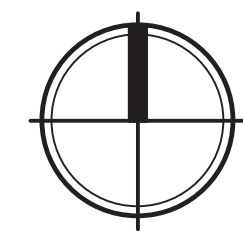
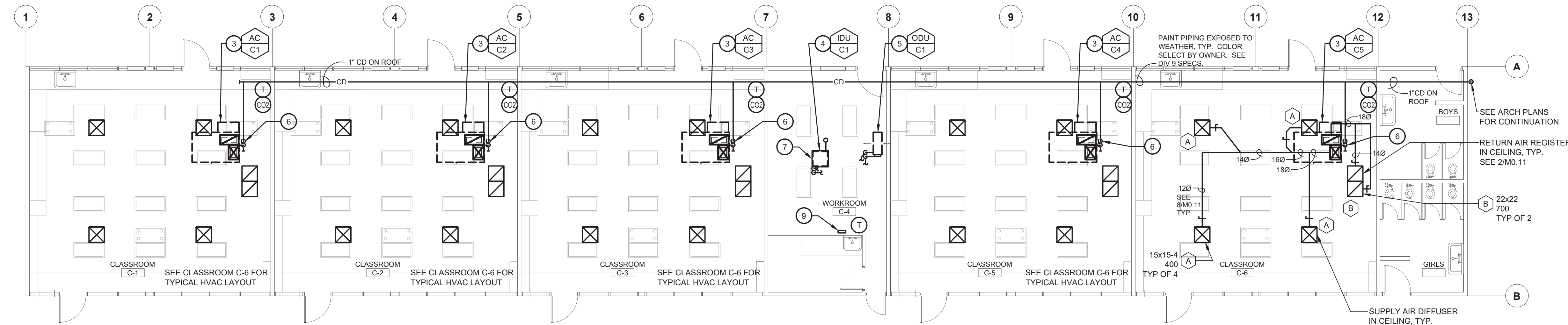
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MECHANICAL PLAN - BLDG C - DEMO

HVAC REPLACEMENT

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



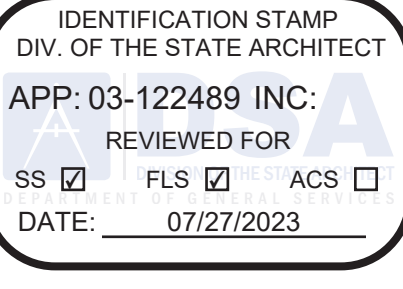
MECHANICAL PLAN - BLDG C - IMPROVEMENTS

HVAC REPLACEMENT

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

KEY NOTES

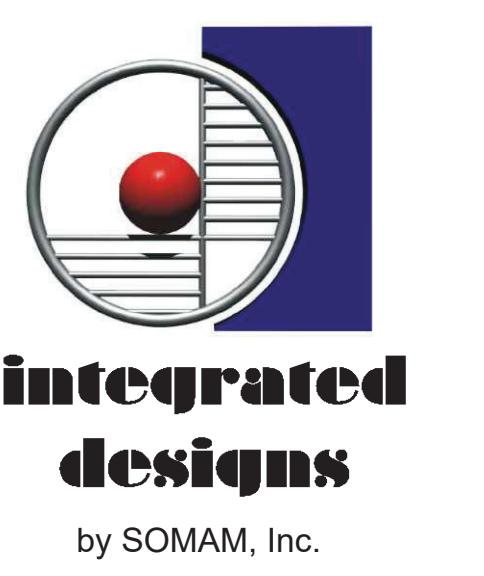
1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF. BETWEEN EXISTING STRUCTURAL MEMBERS. TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF. TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 11/M0.11
5. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 12/M0.11
6. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
7. INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING.
8. REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL. PATCH OPENING TO MATCH EXISTING, TYP.
9. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
10. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN, TYP. PROTECT FROM DAMAGE.



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



**ARCHITECTURE
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INTERIOR DESIGN**

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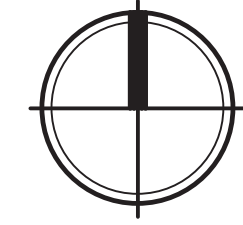
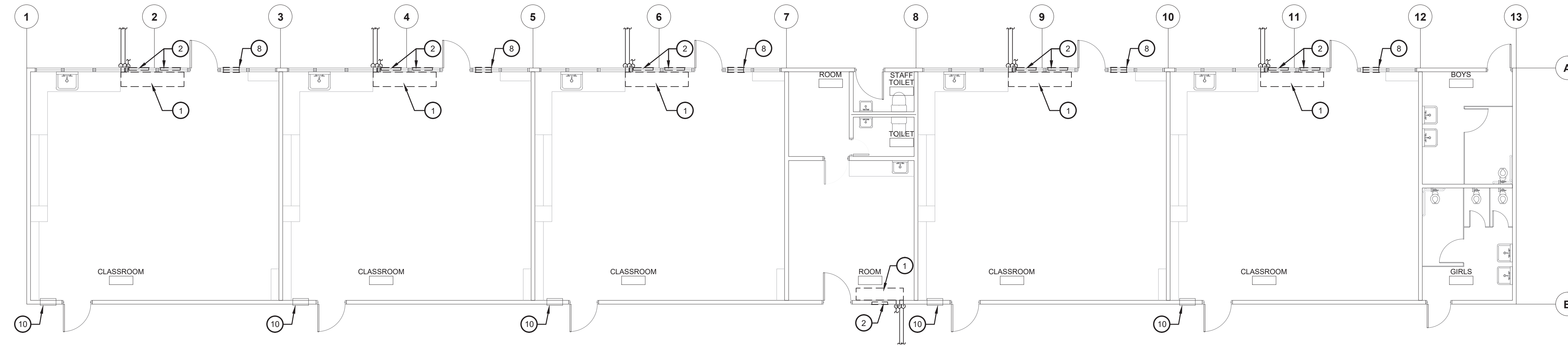


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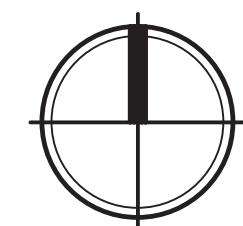
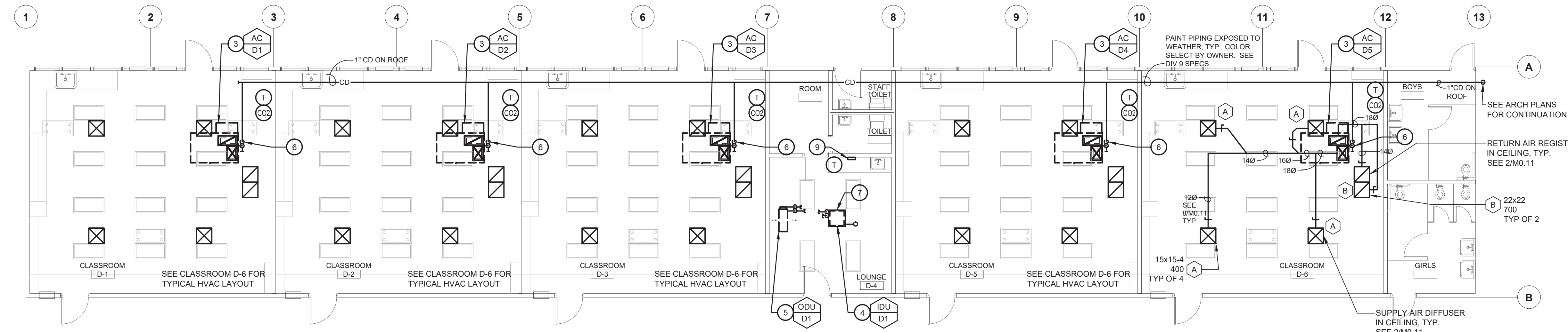




MECHANICAL PLAN - BLDG D - DEMO

HVAC REPLACEMENT

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



MECHANICAL PLAN - BLDG D - IMPROVEMENTS

HVAC REPLACEMENT

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

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x11(L) RA PLENUM DROP THRU ROOF. BETWEEN EXISTING STRUCTURAL MEMBERS. TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF. TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 11/M0.11
5. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 12/M0.11
6. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
7. INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OR SINK. PATCH OPENINGS TO MATCH EXISTING.
8. REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL. PATCH OPENING TO MATCH EXISTING, TYP.
9. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
10. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN, TYP. PROTECT FROM DAMAGE.

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SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

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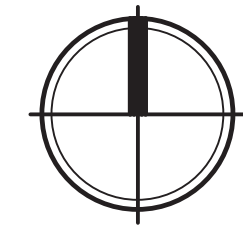
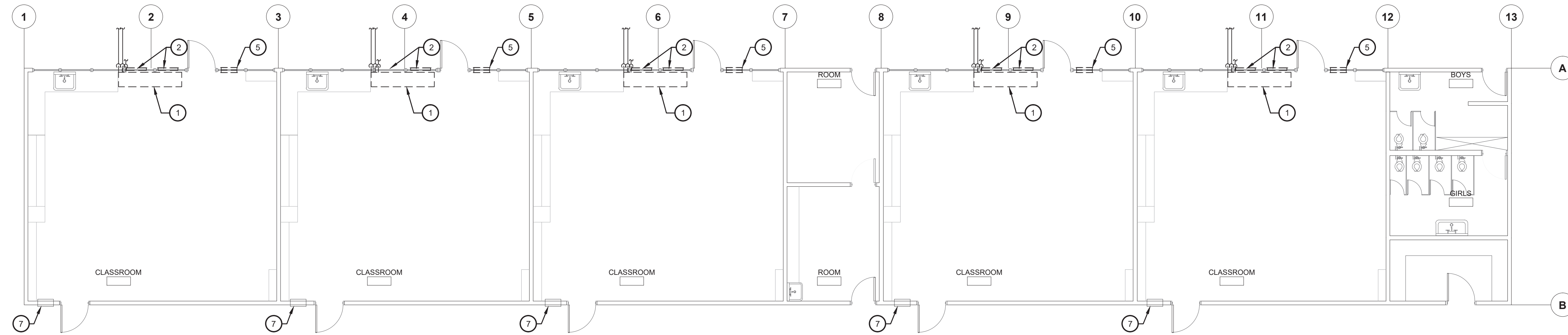


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MECHANICAL PLAN - BLDG D

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5524

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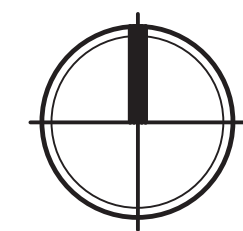
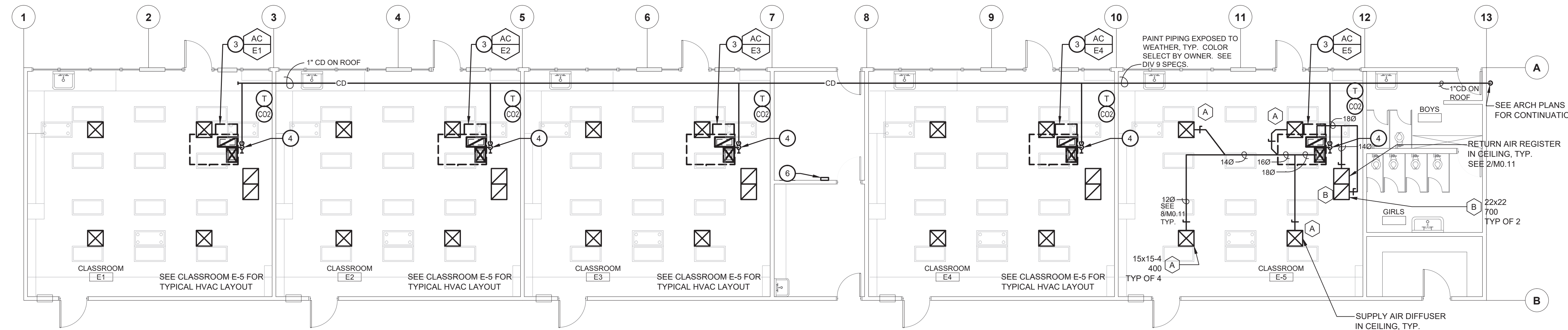




MECHANICAL PLAN - BLDG E - DEMO

HVAC REPLACEMENT

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



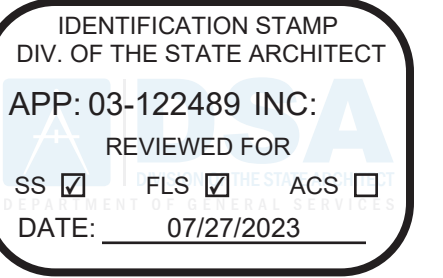
MECHANICAL PLAN - BLDG E - IMPROVEMENTS

HVAC REPLACEMENT

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

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING. TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF. BETWEEN EXISTING STRUCTURAL MEMBERS. TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/MO.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/MO.11
5. REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL. PATCH OPENING TO MATCH EXISTING. TYP.
6. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120V WALL OUTLET.
7. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN. TYP. PROTECT FROM DAMAGE.



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
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BAKERSFIELD, CA 93309



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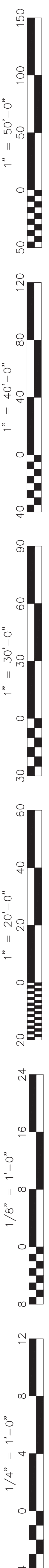
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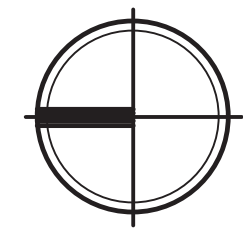
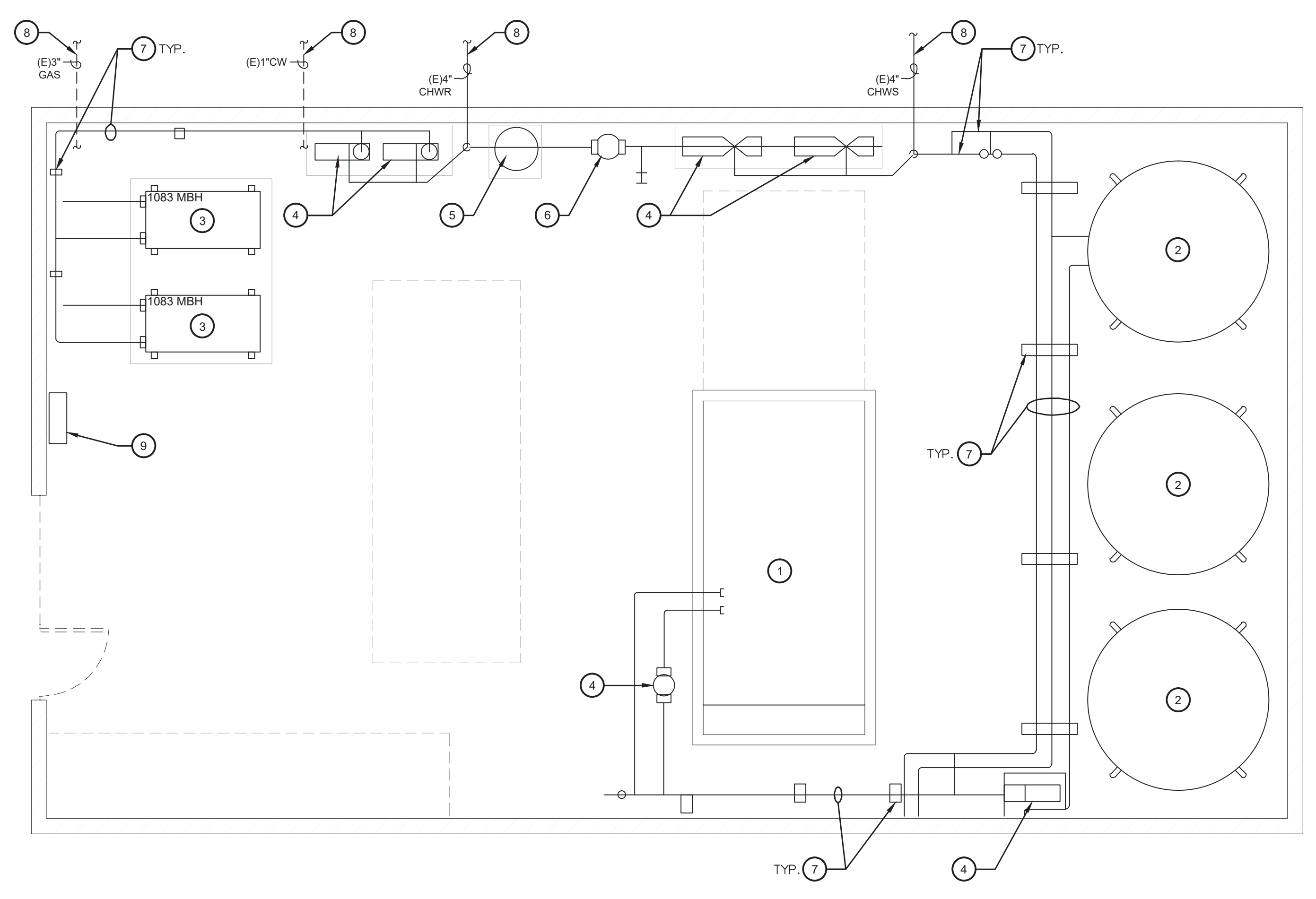
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NOTE:
CENTRAL PLANT SHALL REMAIN IN OPERATION UNTIL ALL ASSOCIATED AIR HANDLING UNITS HAVE BEEN REMOVED.




MECHANICAL PLAN - CENTRAL PLANT
HVAC REPLACEMENT

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

KEY NOTES

1. REMOVE EXISTING AIR COOLED CHILLER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
2. REMOVE EXISTING ICE STORAGE TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
3. REMOVE EXISTING HYDRONIC BOILER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
4. REMOVE EXISTING PUMP AND ALL RELATED COMPONENTS, PIPING, CONTROLS, ETC, TYP.
5. REMOVE EXISTING EXPANSION TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
6. REMOVE EXISTING AIR SEPARATOR AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
7. REMOVE EXISTING PIPING AND SUPPORT, TYP.
8. REMOVE EXISTING PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP. FIELD VERIFY SIZE AND LOCATION. SAWCUT AND PATCH TO MATCH EXISTING.
9. SALVAGE EXISTING HVAC CONTROL PANEL AND DELIVER TO OWNER.

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REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
FRESNO, CA. 93706

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309


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MECHANICAL PLAN - CENTRAL PLANT

Job No.: **5524**

Sheet No.: **M2.61**
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STATE OF CALIFORNIA
Mechanical Systems
 CERTIFICATE OF COMPLIANCE
 Project Name: Munsey Elementary School
 Project Address: 3801 Brave Avenue
 Report Page: Page 13 of 42
 Date Prepared: 10/18/2022

CALIFORNIA ENERGY COMMISSION
 NRC-MCH-E
 NRC-MCH-E
 (Page 13 of 42)

I. SYSTEM CONTROLS
 This table is used to demonstrate compliance with mandatory controls in §110.2, §120.2, and prescriptive controls in §140.4(a) and (n) or requirements in §142.03(a), for altered space conditioning systems.

System Name	System Zone	Conditioned Floor Area (ft ²)	Thermostats (§110.2(a) & §120.2(a))	Shut-Off Controls (§120.2(b))	Isolation Zone Controls (§120.2(c))	Demand Response (§110.2(d) and §120.2(b))	Supply Air Temp. Reset (§120.2(e))	Window Interlocks per §140.4(a)
AC-A1 to AC-A4	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-A5	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
IDU-ODU-A1	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C1	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C2	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C3	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
IDU-ODU-C1	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C4	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C5	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D1	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D2	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D3	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Report Version: 2019.1.003
 Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
 CERTIFICATE OF COMPLIANCE
 Project Name: Munsey Elementary School
 Project Address: 3801 Brave Avenue
 Report Page: Page 9 of 42
 Date Prepared: 10/18/2022

CALIFORNIA ENERGY COMMISSION
 NRC-MCH-E
 NRC-MCH-E
 (Page 9 of 42)

H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(a) and §140.4(b) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	AC-OS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Report Version: 2019.1.003
 Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
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 Project Name: Munsey Elementary School
 Project Address: 3801 Brave Avenue
 Report Page: Page 5 of 42
 Date Prepared: 10/18/2022

CALIFORNIA ENERGY COMMISSION
 NRC-MCH-E
 NRC-MCH-E
 (Page 5 of 42)

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 This table is used to demonstrate compliance with prescriptive requirements found in §110.2, §120.2, and §140.4(a) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-OS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Report Version: 2019.1.003
 Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
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 Project Name: Munsey Elementary School
 Project Address: 3801 Brave Avenue
 Report Page: Page 1 of 42
 Date Prepared: 10/18/2022

CALIFORNIA ENERGY COMMISSION
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 (Page 1 of 42)

A. GENERAL INFORMATION
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6, or §141.03(a) for alterations.

Project Location (City)	Bakersfield	04 Total Conditioned Floor Area	13 19724
02 Climate Zone		05 Total Unconditioned Floor Area	
03 Occupancy Types Within Project:		06 Use of Stories (Habitable Above Grade)	1
07 Office (B)	<input type="checkbox"/> Retail (M)	08 Non-refrigerated Warehouse (S)	
09 Hotel/Motel Guest Rooms (R-1)	<input type="checkbox"/> School (E)	10 Healthcare Facility (H)	
11 High-Rise Residential (R-2/R-3)	<input type="checkbox"/> Nonclassroom Class Bldg (E)	12 Other (write in)	See Table J

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 Project Address: 3801 Brave Avenue
 Report Page: Page 14 of 42
 Date Prepared: 10/18/2022

CALIFORNIA ENERGY COMMISSION
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 (Page 14 of 42)

I. SYSTEM CONTROLS
 This table is used to demonstrate compliance with mandatory controls in §110.2, §120.2, and §140.4(a) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	System Zone	Conditioned Floor Area (ft ²)	Thermostats (§110.2(a) & §120.2(a))	Shut-Off Controls (§120.2(b))	Isolation Zone Controls (§120.2(c))	Demand Response (§110.2(d) and §120.2(b))	Supply Air Temp. Reset (§120.2(e))	Window Interlocks per §140.4(a)
IDU-ODU-D1	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D5	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E1	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E2	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E3	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E4	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E5	Single zone	≈+ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors

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H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(a) and §140.4(b) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-OS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

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G. PUMPS
 This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS
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System Name	AC-A1 to AC-A4	Economizer ¹	Fixed Temperature	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	4	8000	BHP	1.19	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			8000	Total System Design (BHP):		4.76	Maximum System Fan Power (BHP):

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C. COMPLIANCE RESULTS
 Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

System Summary	AND	Pumps	AND	Fan/ Economizers	AND	System Controls	AND	Ventilation	AND	Terminal Box Controls	AND	Distribution	AND	Cooling Towers	Completion Results
§110.2, §120.2, §140.4(a)		§140.4(b)		§140.4(c), §140.4(d), §140.4(e)		§140.4(f)		§140.4(g)		§140.4(h)		§140.4(i)		§140.4(j)	COMPLIES

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J. VENTILATION AND INDOOR AIR QUALITY
 This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1, and §120.2(a)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be prepared in a spreadsheet.

System Name	AC-A1 to AC-A4	System Design Air Flow CFM	2006	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.03(a) ²			
Space Name of Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower/Head/Toilets	# of people ⁵	Required Min CFM	Required Min CFM			
MPR	Assembly-multuse	4013		2006.5	0	0			
17 Total System Required Min DA CFM							2006.18	Ventilation for this System Complies?	Yes

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H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(a) and §140.4(b) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-OS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

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H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(a) and §140.4(b) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	IDU-ODU-A1	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	420	BHP	0.05	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			420	Total System Design (BHP):		0.05	Maximum System Fan Power (BHP):

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.2, §120.2, and §140.4(a) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-OS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

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J. VENTILATION AND INDOOR AIR QUALITY
 This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1, and §141.03(a) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be prepared in a spreadsheet.

System Name	IDU-ODU-A1	System Design Air Flow CFM	42	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.03(a) ²			
Space Name of Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower/Head/Toilets	# of people ⁵	Required Min CFM	Required Min CFM			
Lounge	All others	281		42.2	0	0			
17 Total System Required Min DA CFM							42.18	Ventilation for this System Complies?	Yes

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H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(a) and §140.4(b) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-E3	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

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H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(a) and §140.4(b) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-C3	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.79	Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.79	Maximum System Fan Power (BHP):

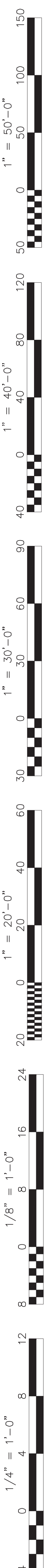
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.2, §120.2, and §140.4(a) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table K.

System Name	AC-OS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.4(a) and (m)	System Fan Type	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.8	Design Airflow through Device (CFM)



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G. MANDATORY MEASURES DOCUMENTATION LOCATION
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
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 Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Lisa Lum
 Signature Date: 2022-10-18
 Company: Integrated Designs by SOMAM, Inc.
 Address: 8021 North Fresno Street, Suite 130
 City/State/Zip: Fresno CA 93710
 Phone: 559-436-0881

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufacturing process for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1.5 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit/issue for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Lisa Lum, PE
 Signature Date: 2022-10-18
 Company: Integrated Designs by SOMAM, Inc.
 Address: 8021 North Fresno Street, Suite 130
 City/State/Zip: Fresno CA 93710
 Phone: 559-436-0881

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D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 910.2.1.1.3) can vary outside ventilation flow rates based on maintaining exterior carbon dioxide (CO2) concentration setpoints.	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCDM06; Carrier 50GCDM05		

F. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 There are no NRCV forms required for this project.

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes" if Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 910.2.1.1.3) can vary outside ventilation flow rates based on maintaining exterior carbon dioxide (CO2) concentration setpoints.	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		

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D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-01-E - Must be submitted for all buildings			
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		

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L. DISTRIBUTION (DUCTWORK AND PIPING)
 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
 The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
 Duct system shall be sealed in accordance with the California Mechanical Code.

Question	Yes	No	AC-E1	Duct leakage testing triggered for these systems?	Yes	No
15						
16						
17						
11	No					
12	Yes					
13	Yes					
14	No					

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L. DISTRIBUTION (DUCTWORK AND PIPING)
 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
 The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
 Duct system shall be sealed in accordance with the California Mechanical Code.

Question	Yes	No	AC-E3	Duct leakage testing triggered for these systems?	Yes	No
15						
16						
17						
11	No					
12	Yes					
13	Yes					
14	No					

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
 Registration Provider: Energsoft
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STATE OF CALIFORNIA
Mechanical Systems
 NRC-MCH-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-MCH-E
 Project Name: Munsey Elementary School Report Page: Page 35 of 42
 Project Address: 3801 Brave Avenue Date Prepared: 10/18/2022

L. DISTRIBUTION (DUCTWORK AND PIPING)
 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
 The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
 Duct system shall be sealed in accordance with the California Mechanical Code.

Question	Yes	No	AC-E5	Duct leakage testing triggered for these systems?	Yes	No
15						
16						
17						
11	No					
12	Yes					
13	Yes					
14	No					

M. COOLING TOWERS
 This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Mechanical Systems
 NRC-MCH-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-MCH-E
 Project Name: Munsey Elementary School Report Page: Page 36 of 42
 Project Address: 3801 Brave Avenue Date Prepared: 10/18/2022

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Sections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-01-E - Must be submitted for all buildings			
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCDM06; Carrier 50GCDM05; Carrier 50GCDM04; Carrier 50GCDM03; Carrier 50GCDM02; Carrier 50GCDM01		

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IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 FRESNO, CA 93706

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309

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 by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN

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