JEFFCO PUBLIC SCHOOLS

CAAC Design and Construction Update

10-25-24



Arvada Aquatics Center
City of Arvada / Jeffco / Apex
OLC Designs – Saunders CMGC

Complete

Open
October 24



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Arvada Aquatics Center
City of Arvada / Jeffco / Apex
OLC Designs – Saunders CMGC

Complete

Open
October 24



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Healthy & Equitable Start Times

BOE Mar 03 2022

Complete

High School Athletic Field Lighting (16)

Engineer Ackerman – CMGC Himmelman



Ralston Valley Senior High School



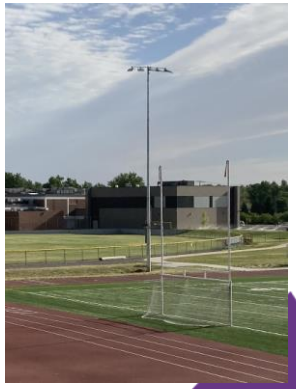
Alameda International High School



Lakewood High School



Pomona High School



Jefferson High School



Green Mountain High School



Wheat Ridge High School



Bear Creek High School

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Healthy & Equitable Start Times

BOE Mar 03 2022

Complete

High School Athletic Field Lighting (16)

Engineer Ackerman – CMGC Himmelman



Arvada West High School



Arvada High School



Golden High School



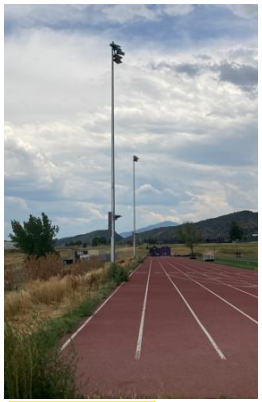
Standley Lake High School



Chatfield High School



Columbine High School



Dakota Ridge
Senior High School



D'Evelyn
Junior/Senior High School

Fletcher Miller Special School
New Facility @ Current Site

MOA – Crossland

Construction



Fletcher Miller Special School
New Facility @ Current Site

Construction

MOA – Crossland



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Fletcher Miller Special School
New Facility @ Current Site

Construction

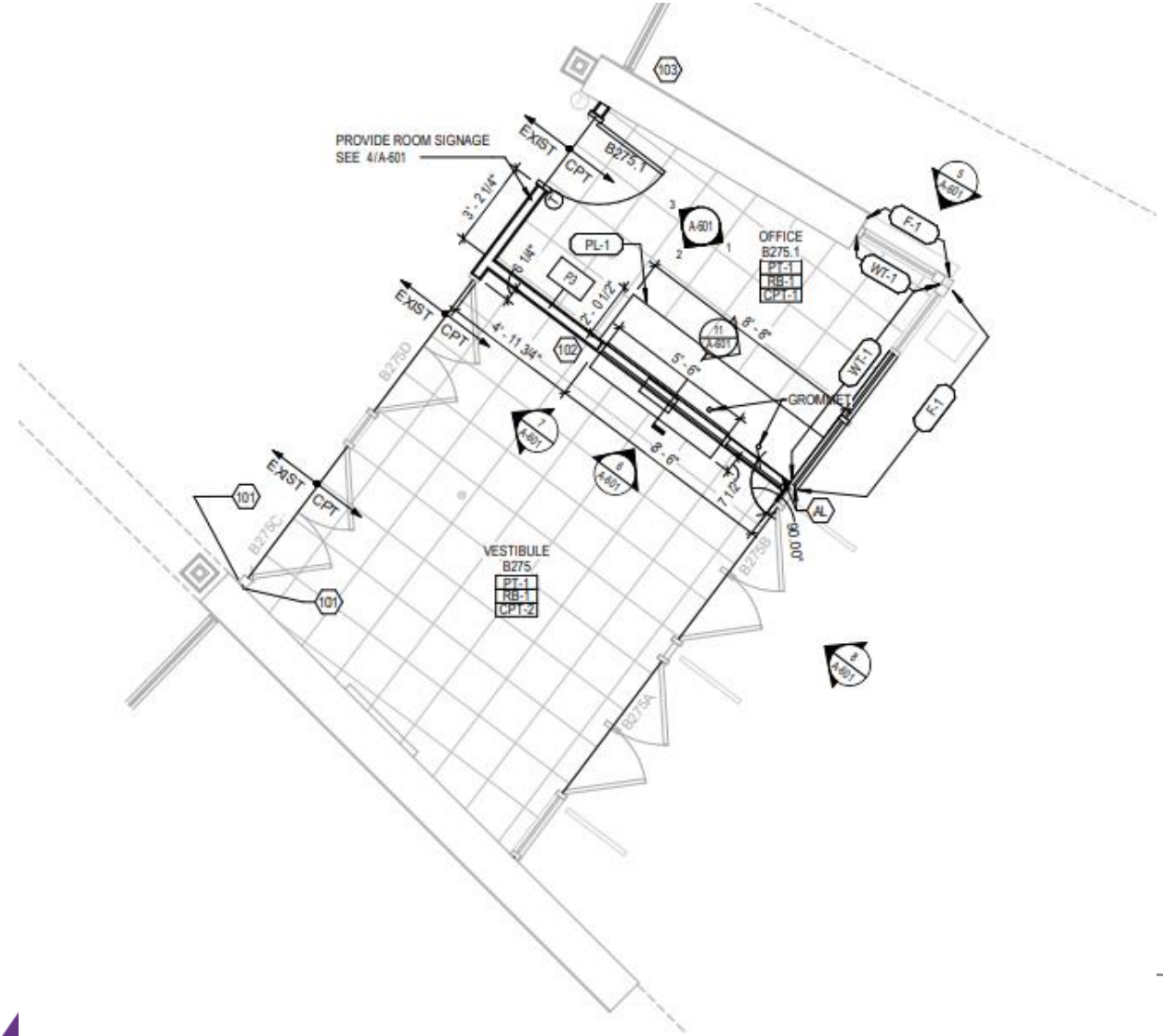
MOA – Crossland



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Chatfield HS – Secure Entry

MOA - Mark Young Construction



Bid
$192,643

Budget
$300,778

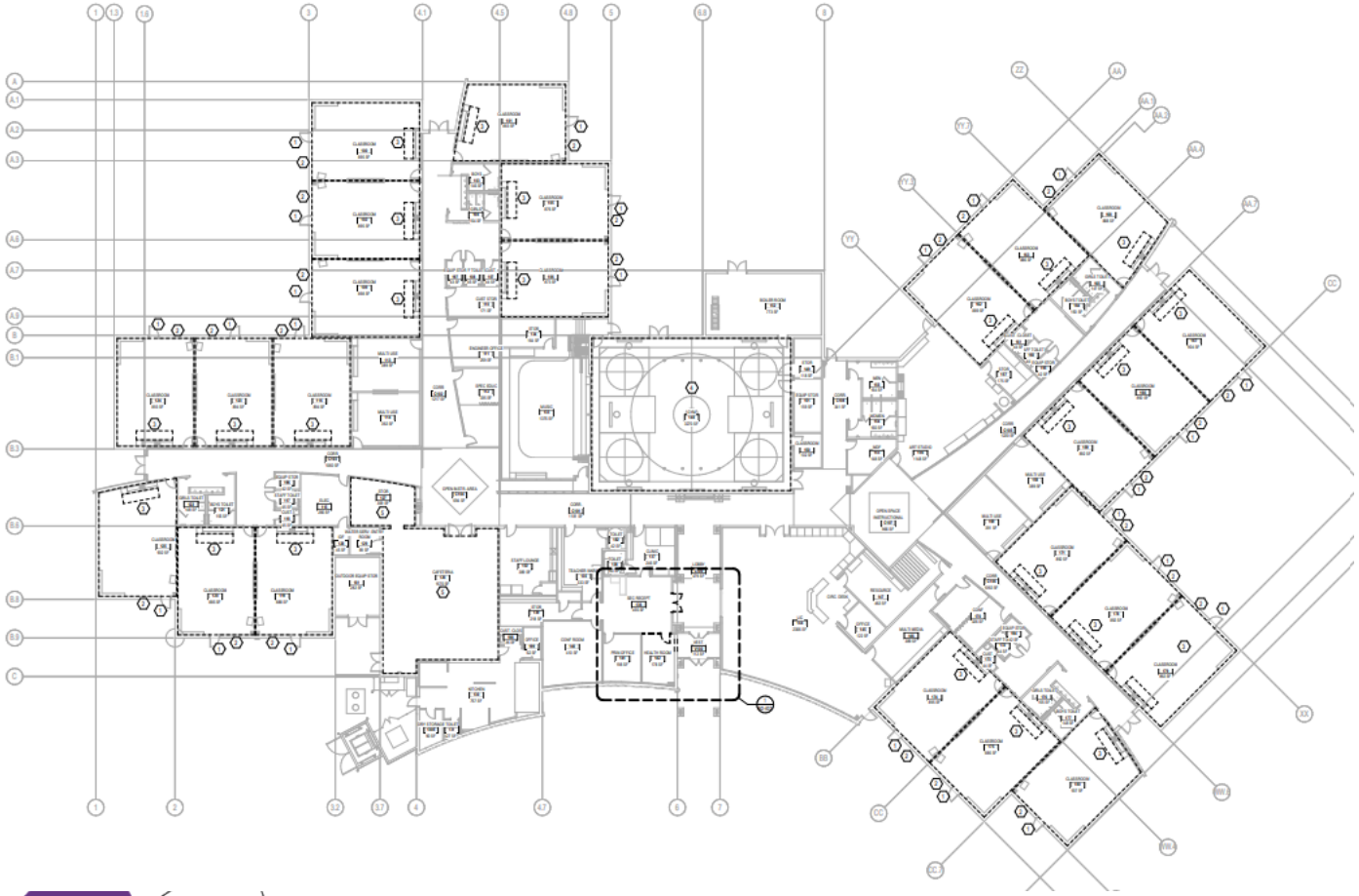
$108,135
Below Budget

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Blue Heron ES – Fire Alarm Upgrade

Bids
October 29

TLH - TBD

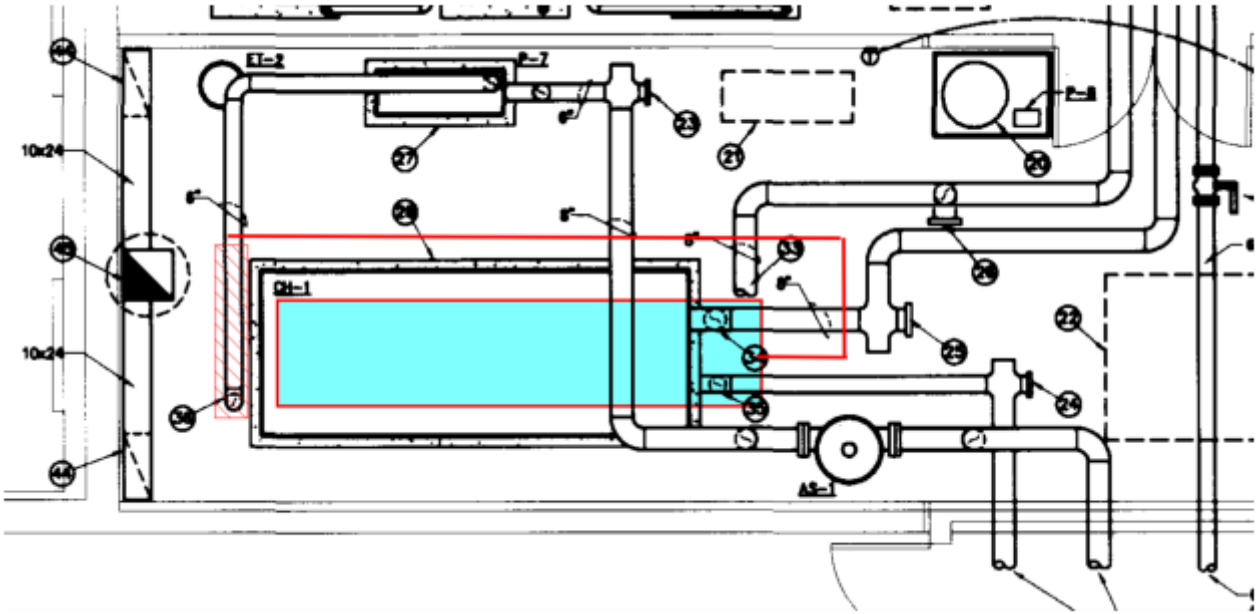


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Dakota Ridge HS – Chiller

Bids
November 5

Columbine - TBD

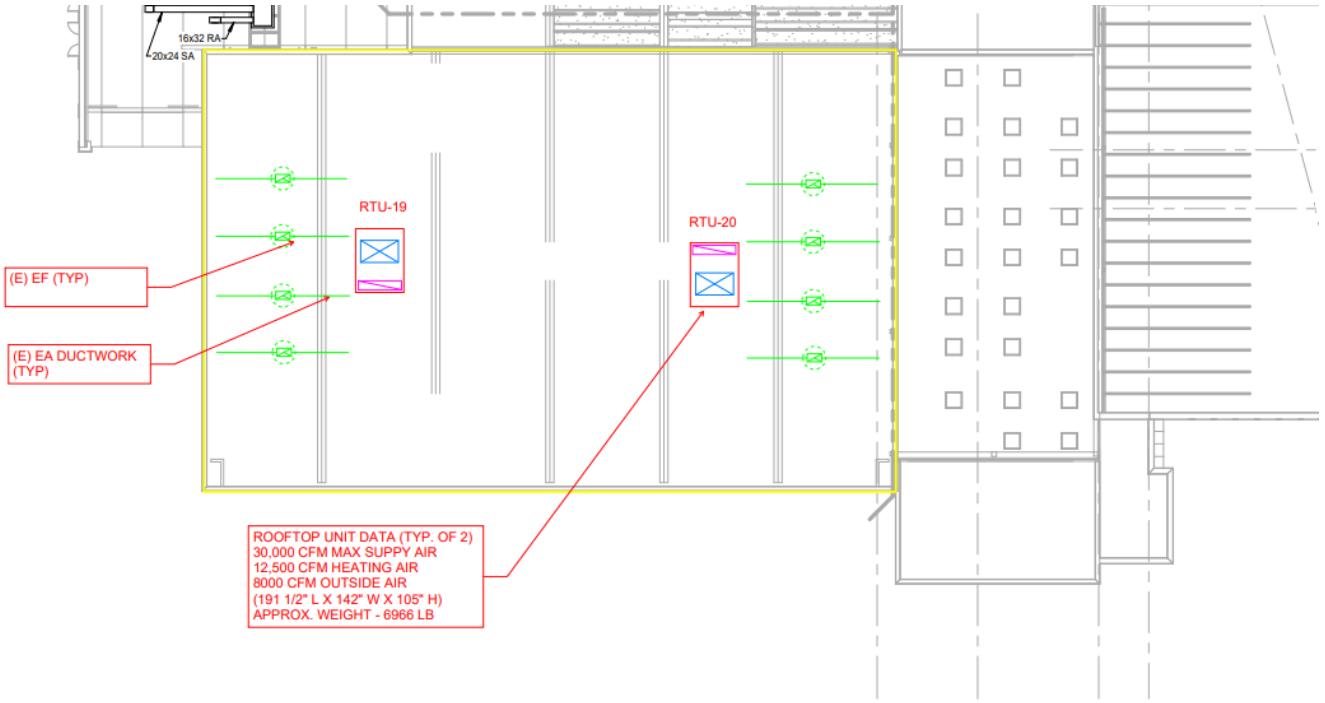


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Alameda HS – Gym Roof & Mechanical

Cator Ruma - TBD

Bids December 5



OPTION 1: (2) 30K CFM ROOFTOP UNITS

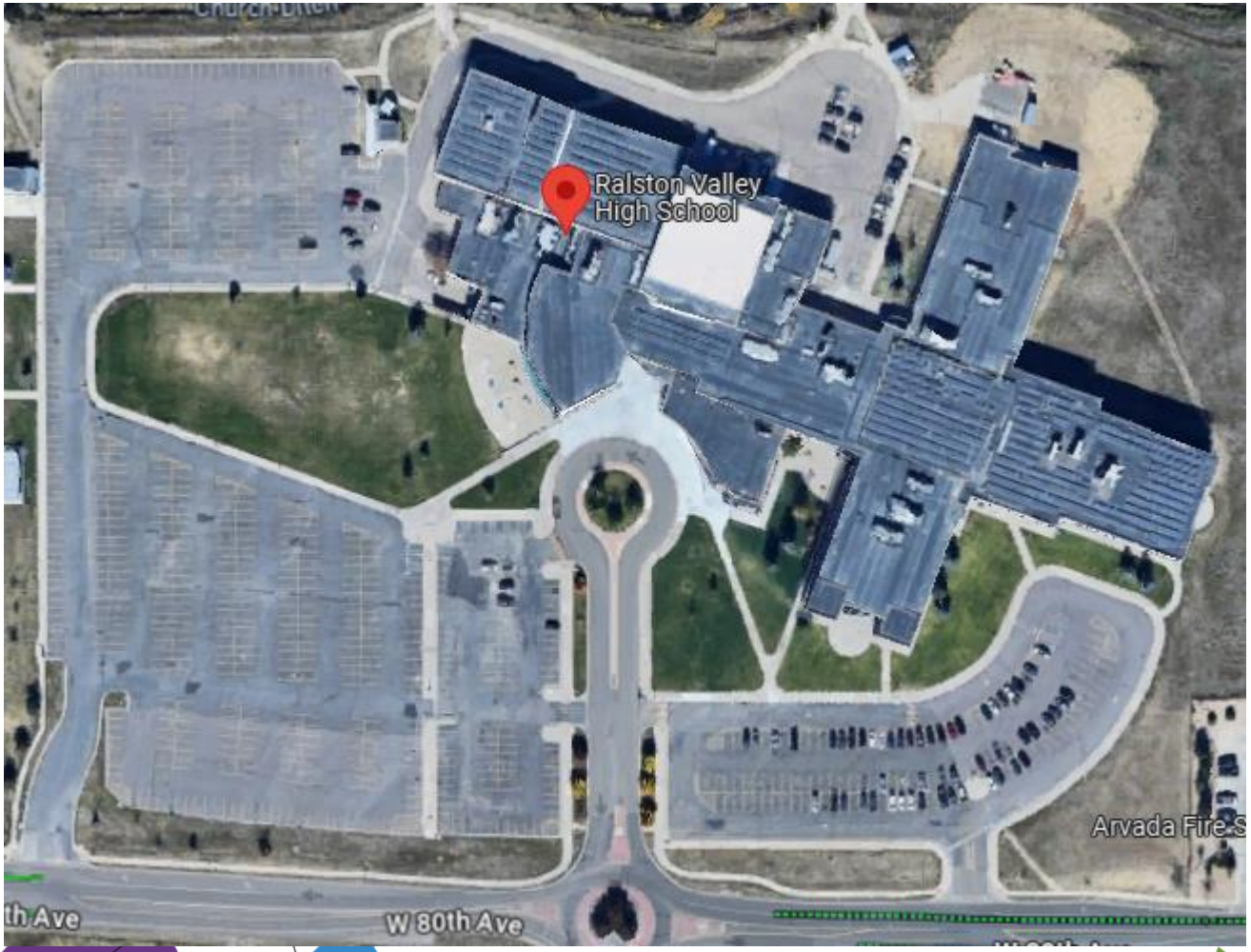
MECHANICAL ROOF PLAN
SCALE: 1" = 20'-0"

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RVHS – Paving

JVA - TBD

Bids
December 17



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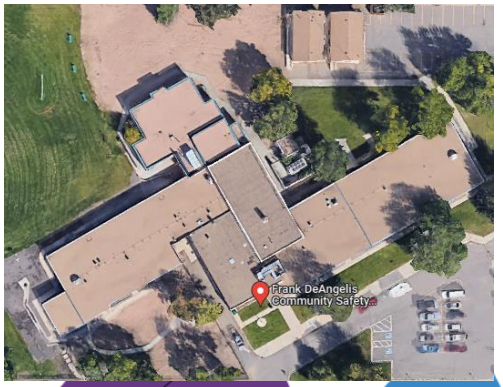
District Wide – Roofing

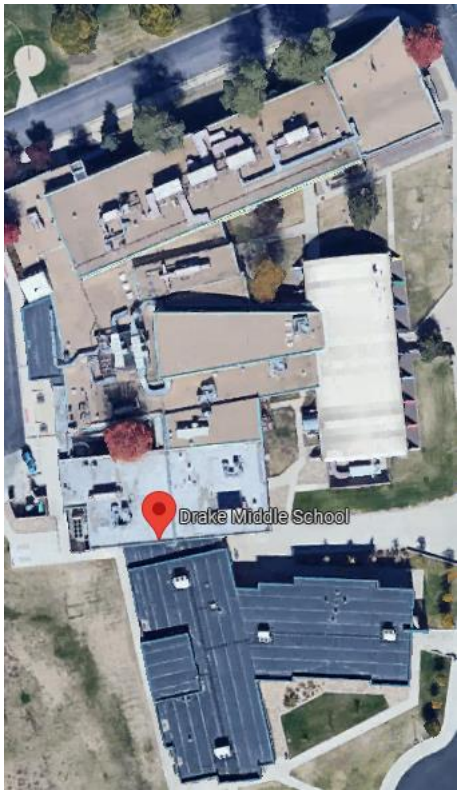
Bids December

Evergreen HS gym, Jefferson HS (repair), Jeffco stadium east side press box (repair)
Jeffco driver training, Lakewood HS (repair)

SR+dk - TBD







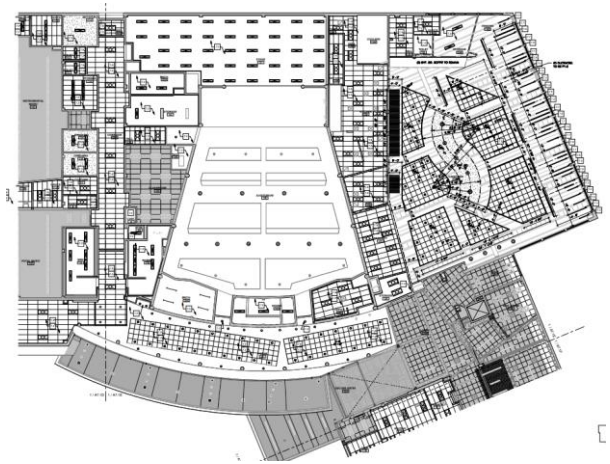


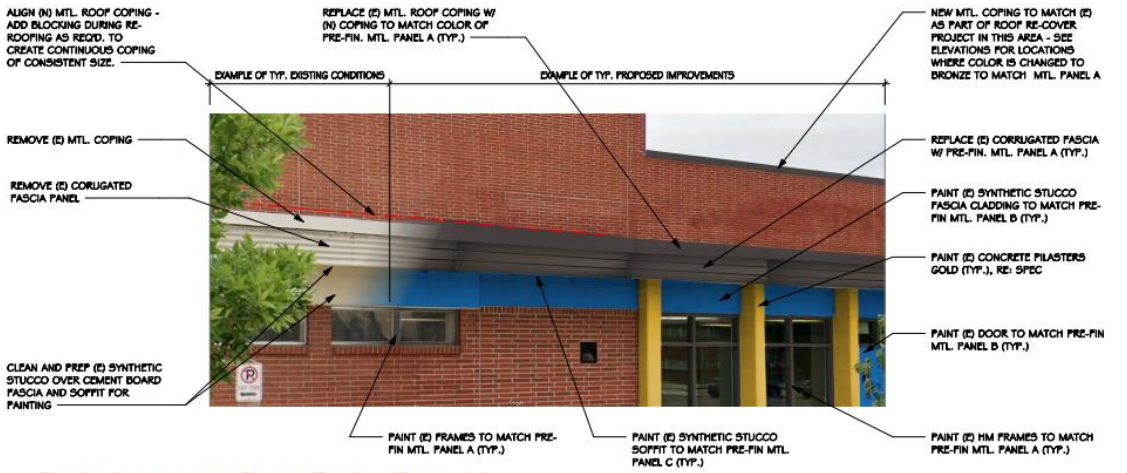
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Wheat Ridge HS Phase II

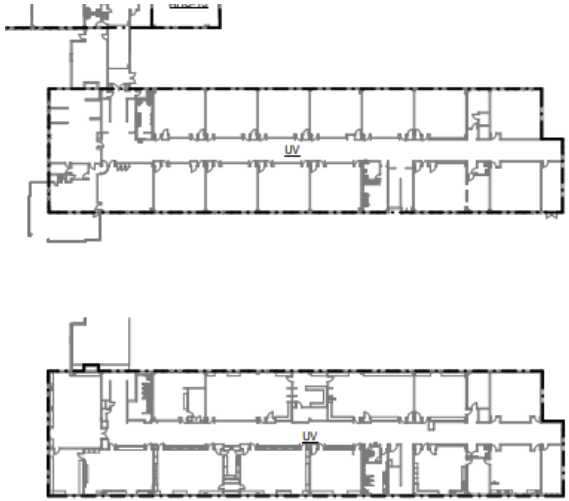
Construction Documents

Eidos – GTC

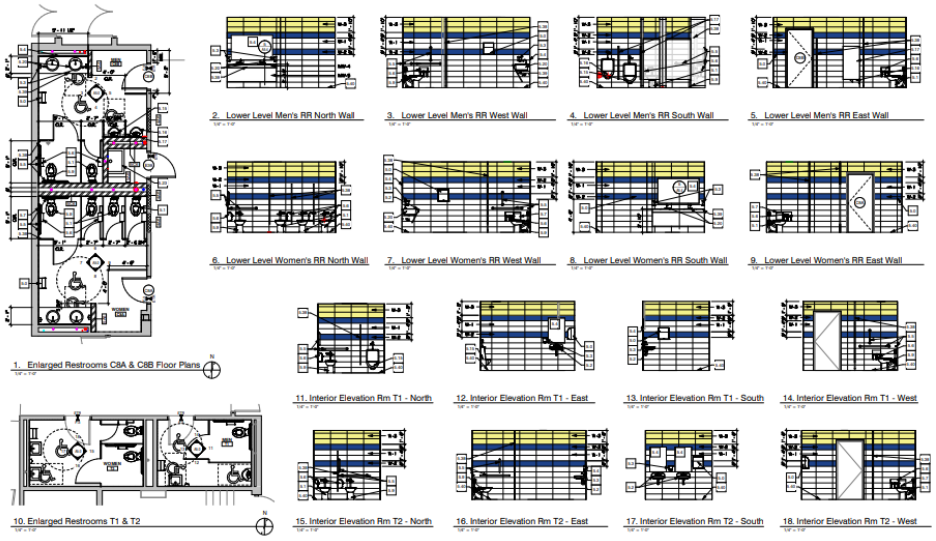




5. Exterior Improvements Photo - Existing / Proposed



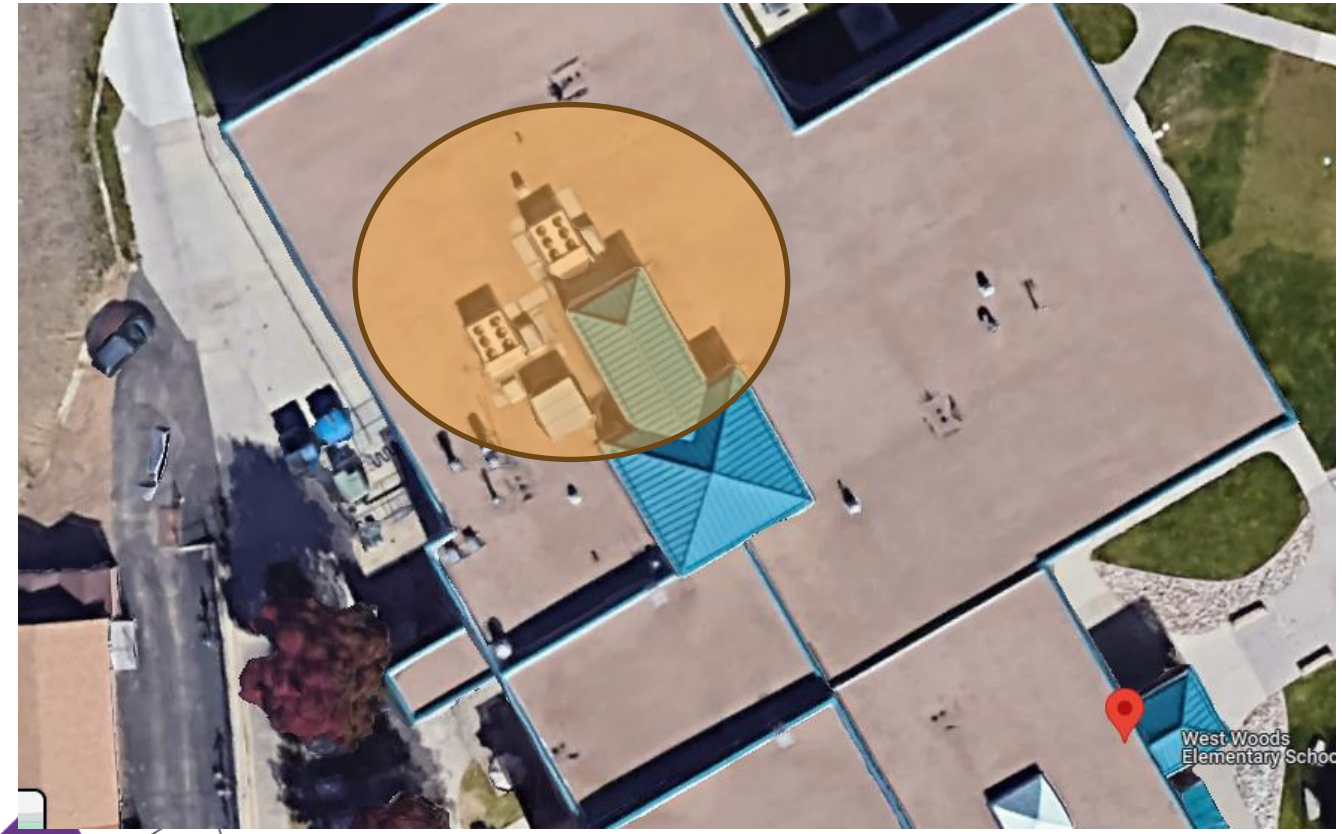
UPPER LEVEL HVAC ZONING PLAN



West Woods – RTU Repairs
Equipment Failure

Construction Documents

Columbine - TBD



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Edgewater ES Playground

City of Edgewater & Recreation Plus

Schematic Design



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District Wide – Bleachers
GMHS & Chatfield

Schematic Design

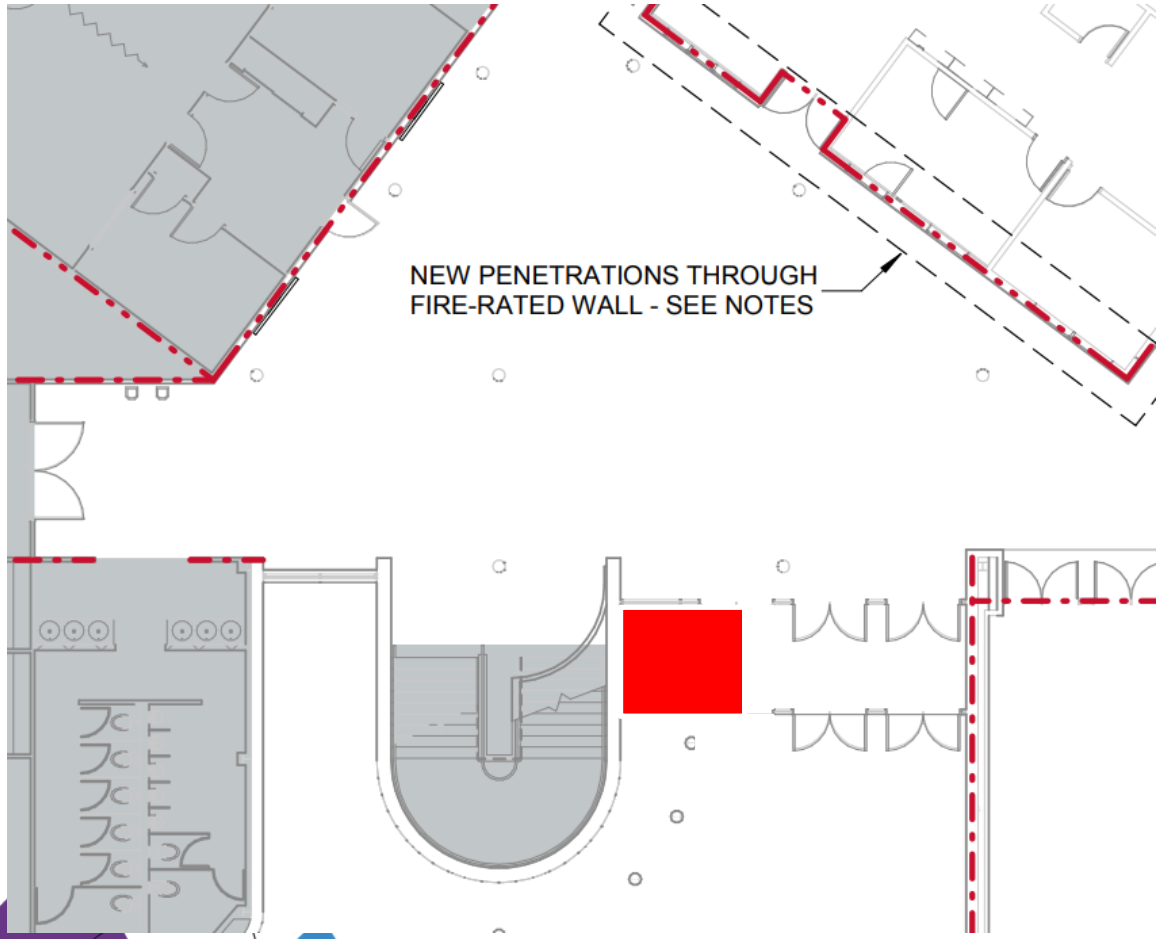


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West Jefferson MS – Secure Entry

Schematic Design

Eidos - TBD

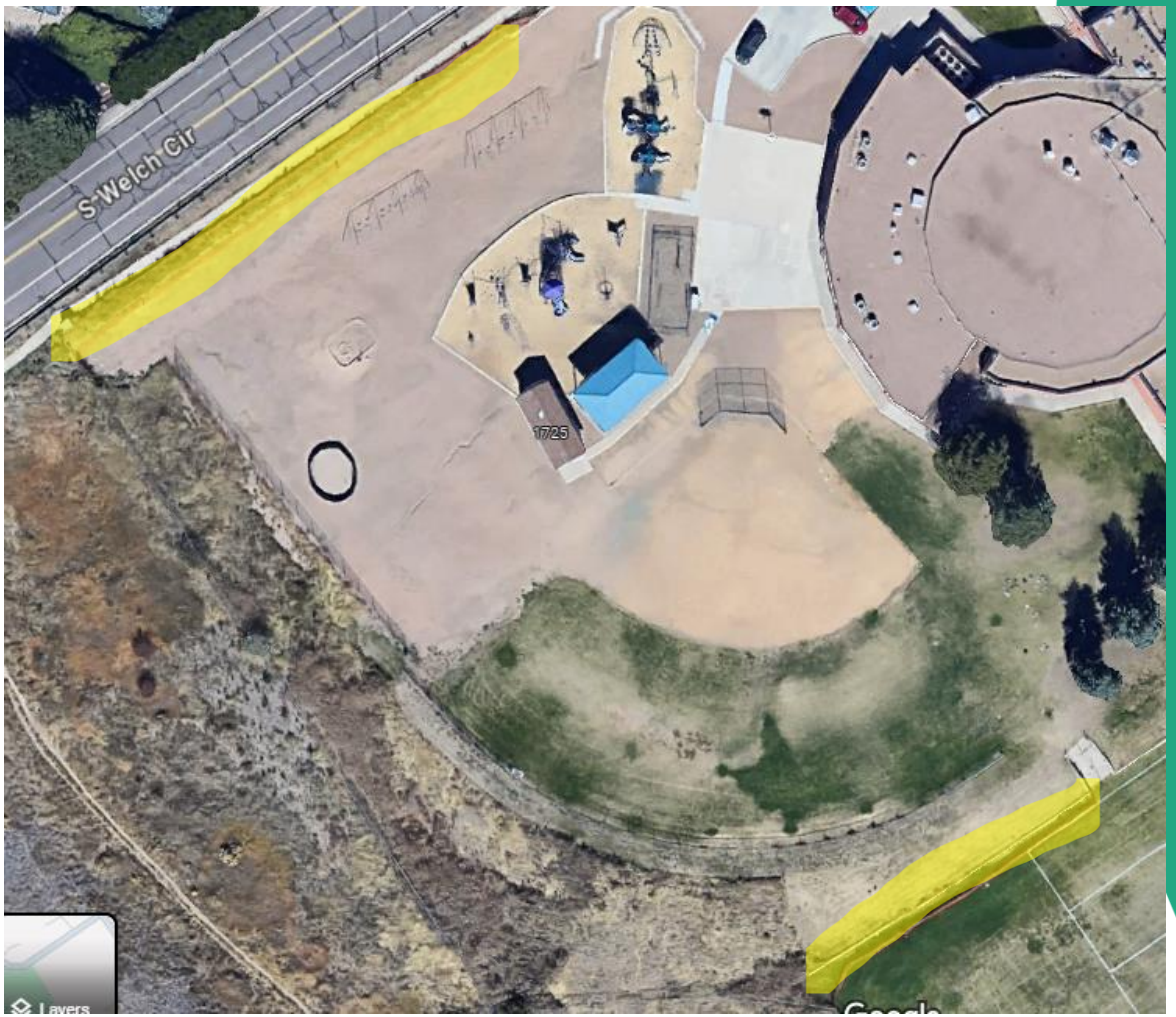


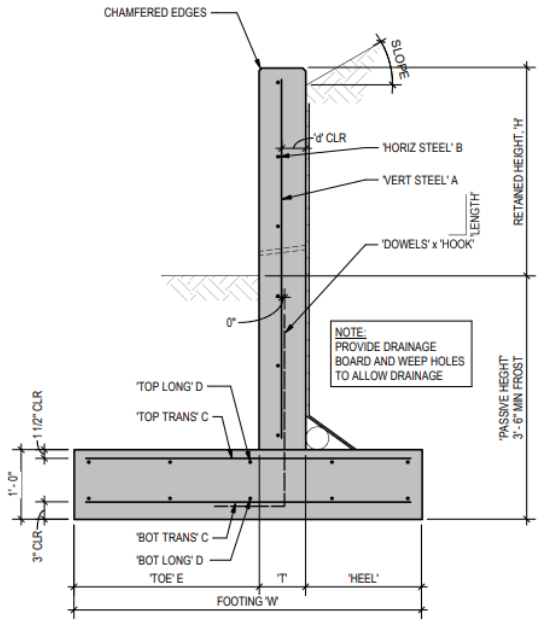
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Devinny Retaining Wall wall failure

Schematic Design

JVA – TBD





4 / S501 RETAINING WALL C DETAIL
3/4" = 1'-0"

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Columbine Hills – RTU-3 Replacement Equipment Failure

Schematic Design

IMEG - TBD

IMC 2021 VENTILATION RATE PROCEDURE CALCULATIONS - EXISTING UNIT EVALUATION

Unit: RTU-3 — **Existing Air Handling Unit % Outside Air (NOTE 3) : 13%** — **IEBC EVALUATION**

UNIT	ROOM NUMBER	ROOM NAME	ZONE TYPE	AREA SQ FT	OCCUPANT OUTDOOR AIRFLOW RATE CFM/PER	AREA OUTDOOR AIRFLOW RATE CFM/SQ FT	OCCUPANT DENSITY PEOPLE PER 1000 SQ FT	OCCUPANT QUANTITY	OVER-VENTILATION PERCENTAGE	BREATHING ZONE OUTDOOR AIRFLOW RATE CFM	TABLE 6-2 ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	TOTAL SUPPLY AIR TO ZONE AT CONDITION ANALYZED CFM - NOTE 1	ZONE VENTILATION EFFICIENCY (Evz)	SYSTEM VENTILATION EFFICIENCY NOTE 2 (Ev)	ACTUAL OSA CFM REQUIRED AT UNIT FOR ZONE	MINIMUM PERCENTAGE AIRFLOW AT UNIT	MINIMUM OUTSIDE AIRFLOW AT UNIT AT UNIT FOR SCOPE	IEBC OUTDOOR AIR REQUIRED NOTE 4	MEETS REQUIREMENTS OF IEBC NOTE 4
RTU-3	137	CLINIC RR	Corridors	88	0.0	0.06	0	0	0%	5	0.8	50	1.01	0.83	6	-	-	0	Yes
	135	PRINCIPAL	Office space	225	5.0	0.06	5	4	0%	34	0.8	360	1.03	0.83	40	-	-	20	Yes
	138	CLINIC	Office space	236	5.0	0.06	5	3	0%	29	0.8	150	0.90	0.83	35	-	-	15	Yes
	139B	RECEPTIONIST & SECRETARY	Office space	335	5.0	0.06	5	5	0%	45	0.8	240	0.91	0.83	54	-	-	25	Yes
	136	CONFERENCE	Conference/meeting	186	5.0	0.06	50	8	0%	51	0.8	380	0.97	0.83	62	-	-	40	Yes
	141	STORAGE	Storage rooms	105	0.0	0.12	0	0	0%	13	0.8	50	0.83	0.83	15	-	-	0	Yes
	A359	OFFICE	Office space	95	5.0	0.06	5	2	0%	16	1.0	120	1.01	0.83	19	-	-	10	Yes
RTU-3	TOTALS FOR SCOPE OF WORK AREA											1350	-	0.83	233	17%	233		

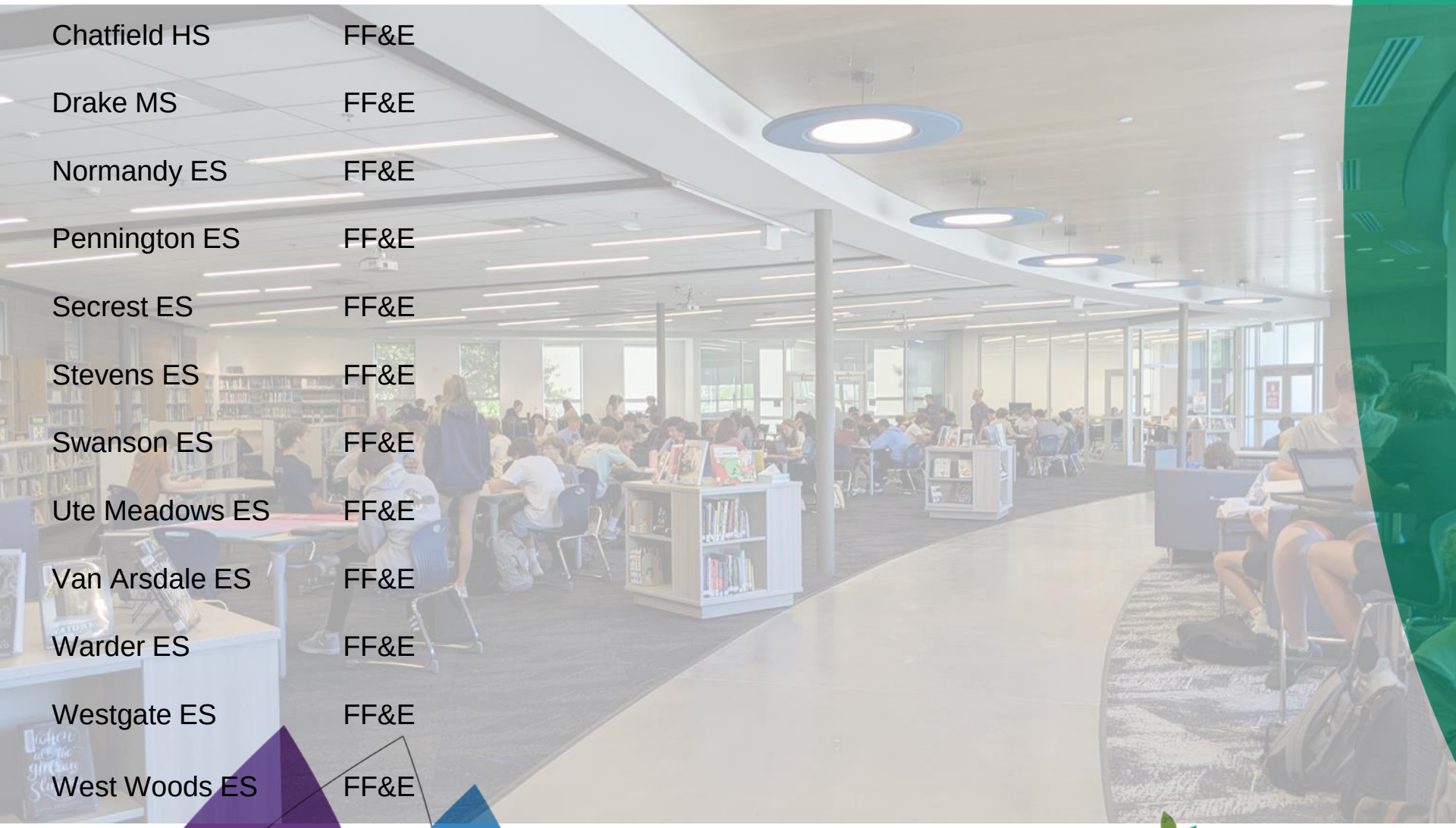
SPECIFIC NOTES:

1. TOTAL SUPPLY AIR AT CONDITION ANALYZED USES THE MAXIMUM AIRFLOW PROVIDED TO THE ZONE DURING THE HEATING OR COOLING MODE, WHICHEVER IS THE CURRENT CONDITION BEING ANALYZED.
2. AS DETERMINED USING THE ASHRAE 62.1-2019 "62 MZ Calc" SPREADSHEET. SYSTEM VENTILATION EFFICIENCY IS EQUAL TO THE LOWEST ZONE VENTILATION EFFICIENCY OF ALL ROOMS SERVED BY THE UNIT AREA UNDER THE CURRENT SCOPE OF WORK.
3. EXISTING AIR HANDLING UNIT % OUTSIDE AIR PER THE BUILDING/PROPERTY MANAGER.
4. CALCULATIONS SHOW COMPLIANCE WITH INTERNATIONAL EXISTING BUILDING CODE (IEBC) SECTION 809 MECHANICAL ALTERATIONS WHICH ALLOW FOR 5 CFM/PERSON IN EXISTING SPACES.
5. OCCUPANT QUANTITY MAY VARY FROM OCCUPANT DENSITY FROM IMC. IN THOSE CASES OCCUPANT QUANTITY IS ADJUSTED TO MEET DATA PROVIDED BY THE CLIENT. THIS IS ACCEPTABLE PER IMC 403.3 EXCEPTION.
   OCCUPANCY RATES GREATER THAN CODE NOTED WITH A BOLD UNDERLINE. OCCUPANCY RATES LESS THAN CODE NOTED WITH A BOLD DOUBLE UNDERLINE.

TOTAL - Unit Outside Airflow Balance Setpoint [cfm], Note 3	270
TOTAL - Unit Supply Airflow Balance Setpoint [cfm], Note 3	2100
Scope - Percentage of Unit Flow	64.29%
Scope Associated - Unit Outside Airflow Balance Setpoint [cfm]	174
Unit Meets ASHRAE 62.1 Requirements	**No**

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FF&E



Chatfield HS	FF&E
Drake MS	FF&E
Normandy ES	FF&E
Pennington ES	FF&E
Secrest ES	FF&E
Stevens ES	FF&E
Swanson ES	FF&E
Ute Meadows ES	FF&E
Van Arsdale ES	FF&E
Warder ES	FF&E
Westgate ES	FF&E
West Woods ES	FF&E

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Next Meeting 11-21-24