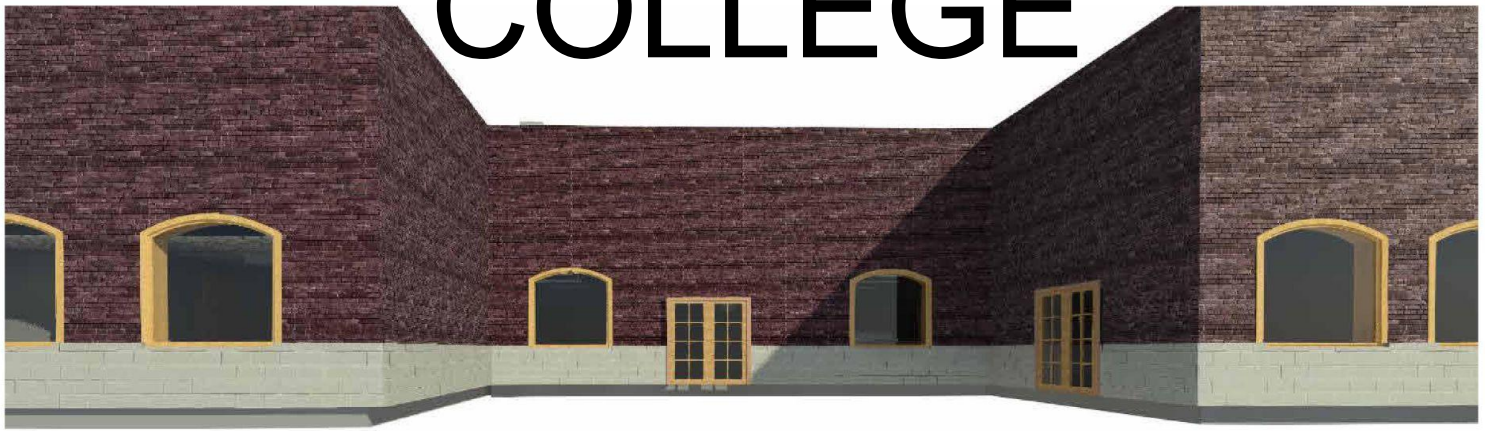
AMERICAN RIVER COLLEGE



MECHANICAL, PLUMBING, & ELECTRICAL

SPRING 2022

ALEJANDRO RAYA

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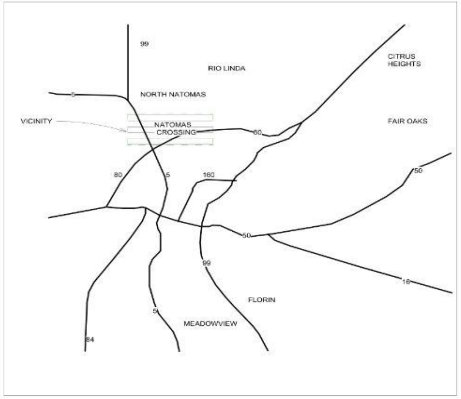
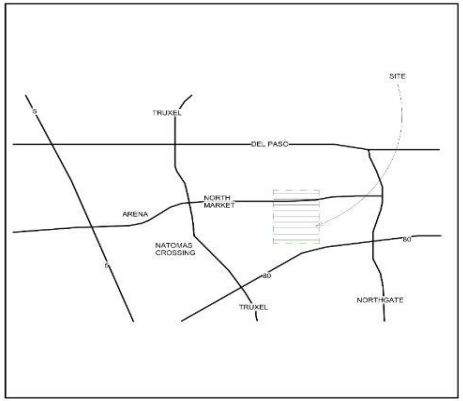
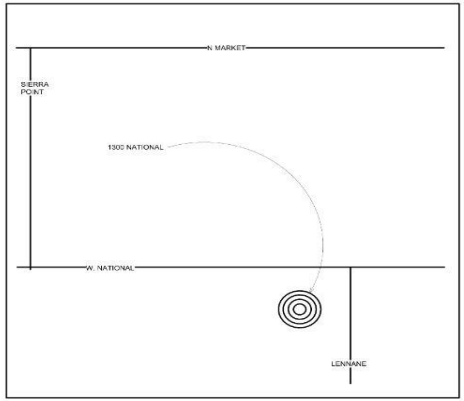
SITE MAP/VICINITY



1 AREA MAP
12" = 1'-0"



2 VICINITY MAP
12" = 1'-0"



3 SITE MAP
12" = 1'-0"

List Project Principals In This Box
- Name
- Afffiliation
- Contact Info

4 PROJECT PRINCIPALS
12" = 1'-0"

DESCRIPTION: ARCDESIGN Environmental Pumps is an expanding company that provides equipment, service, and engineering support to agencies and contractors who are performing environmental water quality control reports and remediation plans.
Their work encompasses providing necessary services in planning and initiation of wastewater remediation projects; as well as in providing specialized equipment for sampling and processing water quality compliance scans.
This company is expanding rapidly due to the development of new predictive software that can help create preventative predictions for water quality dashboards. This ability allows clients to prevent costly remediation plans.

The company currently rents three small facilities … one for each of its operations. Due to the recent growth, the company wishes to consolidate their engineering, service, and manufacturing operations into one building.

5 PROJECT DESCRIBTION
12" = 1'-0"

SHEET LIST

SHEET NUMBER	SHEET NUMBER	DRAWN BY	CURRENT REVISION DATE
A101-RS	RS-PROJECT COVER-RS	A.R.	3/17/22
A102-RS	RS-NOTES / SIGNATURES-RS	A.R.	
A103-RS	RS-SPACE PLAN-RS	A.R.	

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MEP

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SACRAMENTO CA
95841

No.	Description	Date

ARCDESIGN PUMPS
BUILDOUT PLAN
RS-PROJECT

Project number	Project Number
Date	Issue Date
Drawn by	A.R.
Checked by	Checker

A101

Scale 12" = 1'-0"

3/18/2022 12:03:39 AM

ARCHITECT:
Name: _____
Affiliation: _____
Approved By: _____ Date: _____

1 ARCHITECT SIGNATURE
12" = 1'-0"

MECHANICAL ENGINEER:
Name: _____
Affiliation: _____
Approved By: _____ Date: _____

2 MECHANICAL SIGNATURE
12" = 1'-0"

Electrical Engineer:
Name: _____
Affiliation: _____
Approved By: _____ Date: _____

3 ELECTRICAL SIGNATURE
12" = 1'-0"

PLUMBING DESIGN:
Name: _____
Affiliation: _____
Approved By: _____ Date: _____

4 PLUMBING SIGNATURE
12" = 1'-0"

A. GENERAL
1. THESE DRAWINGS INDICATE IN GENERAL THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN INTENT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND TYPE OF STRUCTURAL,MECHANICAL AND ELECTRICAL SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. AS INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
2. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL,FLOOR/WALL SLEEVES AND SHAFTS IN CONCRETE SLABS/WALLS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND DISCREPANCIES, IF ANY, TO BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO EXECUTION OF WORK.
3. THE CONTRACTOR SHALL CONDUCT HIS OWN SITE SURVEY OF THE EXISTING GROUND AND CURB ELEVATIONS (LEVELS) AND REPORT ACTUAL ELEVATIONS (LEVELS) TO THE ENGINEER.
4. CONTRACTOR'S SHOP DRAWINGS SHOULD INDICATE ACTUAL ELEVATIONS (LEVELS).
5. ALL ELEVATIONS (LEVELS) ARE IN METERS.
6. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES ,UNLESS OTHERWISE NOTED.
7. ONLY WRITTEN DIMENSIONS IN ALL CASES SHALL BE FOLLOWED.
8. ALL EXISTING OR PROPOSED ELEVATIONS (LEVELS) AND DIMENSIONS, ON SITE AND ON DRAWINGS MUST BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE THE PREPARATION OF SHOP DRAWINGS OR COMMENCEMENT OF ANY ITEM OF WORK ON THE SITE.
9. ARCHITECTURAL DRAWINGS MUST ALWAYS BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT SERVICES DRAWINGS AND CONTRACT DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DRAWINGSAND DOCUMENTS SHOULD BE REPORTED TO THE ENGINEER FOR CLARIFICATION AND VERIFICATION.
10. ALL ALUMINUM TRIMS SHALL BE POWDER COATED FINISH.
11. ALL PLASTERED SURFACES SHALL BE PAINTED.
12. ALL WALL FINISHES OR CEMENT PLASTERING WORKS ARE TO BE EXTENDED 10 CM. ABOVE SUSPENDED CEILING LEVEL (ELEVATION) OR AS INDICATED.
13. ALL UNDIMENSIONED WALL SHOULDERS SHALL BE 100MM WIDE
14. REFER SCHEDULE OF WALL TYPES FOR DIFFERENT WALL SITUATIONS.
15. ALL BLOCKWALLS ENCLOSING THE FIRE ZONES SHALL BE LIGHT WEIGHT CONCRETE BLOCKWALL AND EXTENDED UP TO THE SOFFIT OF THE SLAB TO PROVIDE 2 HRS FIRE RATING.
16. ALL SHAFT WALLS TO PROVIDE FOR 2 HRS. FIRE RATING.
17. ALL SHAFTS SHALL BE SEALED AT BOTTOM & TOP TO PROVIDE 2 HRS. FIRE RATING.
18. ALL FIRE DOORS SHALL HAVE SMOKE SEAL INTEGRAL WITH IT.
19. ALL PLUMBING H.V.A.C. OPENINGS IN F.R. RATED WALLS & SLABS SHALL BE PROVIDED WITH FIRE SMOKE SEALS OF THE SAME FIRE RATING AS OF THE WALLS & SLABS THEY PENETRATE THROUGH.
20. CONTRACTOR TO LOCATE ALL ACCESS PANEL IN THE GYPSUM BOARD CEILING FOR SERVICES ACCESS.
21. FOR AREAS WITHOUT SUSPENDED CEILING HAVING EXPOSED SLAB AND BEAMS, WALL FINISH MATERIAL SHALL BE FROM FLOOR LEVEL TO BOTTOM OF SLAB LEVEL (UNLESS NOTED OTHERWISE)
22. THE CONTRACTOR SHALL SUBMIT SAMPLES AND SHOP DRAWINGS FOR ALL WORKS WITH ALL NECESSARY DETAILS AND DESIGN INFORMATION FOR APPROVAL.
23. NOTES APPEARING ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS ARE TO BE REVIEWED, COORDINATED AND ARE TO BE APPLIED TO ALL RELATED DRAWINGS AND DETAILS

5 NOTES- GENERAL
12" = 1'-0"

EXTERIOR ENVELOPE
1. THE EXTERIOR WALL AS SHOWN SHALL BE COMPLETE SYSTEM INCLUDING ALL HOT DIPPED GALVANISED STEEL SUPPORTS, STIFFENERS, FASTENERS, SEALANT, CONERY, MISC. PIECES, AND MATERIAL THICKNESS AS REQUIRED TO FORM HIGH QUALITY SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND THE PROFILES SHOWN.
2. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ENGINEER BEFORE PROCEEDING WITH WORK.
3. ALL DETAILS ARE TO BE COORDINATED WITH THE STRUCTURAL FRAMING, INTERIOR FINISHES AND OTHER RELATED BUILDING COMPONENTS IN ORDER TO PROVIDE A COMPLETE ENCLOSURE OF FINISH MATERIALS.
4. THE ANCHORAGE ANGLES, SHAPES AND DETAILS ARE SUGGESTIVE AND ARE TO BE ENGINEERED AND DETAILED AS REQUIRED. THE CONTRACTOR IS TO COORDINATE ALL ANCHORAGE DETAILS WITH APPROPRIATE TRADES.
5. ALL FASTENERS ARE TO BE CONCEALED, EXCEPT AS SPECIFICALLY SHOWN. ALL BUTT JOINTS ARE TO HAVE CONCEALED BACK-UP ROD WITH CAPTIVE SEALANT.
6. ATTACHMENT AND DETAILS FOR THE EXTERIOR WALL AND EXTERIOR GLASS SYSTEMS ARE SHOWN SCHEMATICALLY AND TOGETHER WITH THE SPECIFICATIONS AND THE PROFILES SHOWN ARE INTENDED TO ESTABLISH PERFORMANCE AND MATERIAL QUALITIES DESIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT OF FINAL EXTERIOR WALL DETAILS TO ACCOMMODATE THE FABRICATION, ERECTION AND INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DESIGN INTENT SHOWN.
7. SEALANT DRAINAGE SYSTEM GASKETS AND WATERPROOFING MEMBRANE SHALL BE ASSEMBLED IN SUCH A MANNER TO PROVIDE A HIGH QUALITY WEATHERPROOF BUILDING ENCLOSURE.
8. ALL PROPOSED DETAILS FOR EACH TYPE OF GLAZING ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.
9. COLOR OF SEALANT SHALL MATCH ADJACENT MATERIALS OR AS SPECIFIED BY THE ENGINEER.
10. COORDINATE LOCATION OF EXTERIOR WALL ANCHORS, SEALANT POSITIONS WITH ADJACENT WORK INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
11. THE DESIGN OF THE EXTERIOR WALL IS TO TAKE INTO CONSIDERATION BUILDING MOVEMENTS DUE TO WIND LOADS, THERMAL EXPANSION AND CONTRACTION, FLOOR DEFLECTIONS, SHRINKAGE, CREEP AND SIMILAR MOVEMENTS.
12. DESIGN, FABRICATE AND INSTALL COMPONENT PARTS SO THAT THE COMPLETED EXTERIOR WALL ASSEMBLY INCLUDING GLASS AND STONE CLADDING WILL WITHSTAND THE INWARD AND OUTWARD WIND SPEED OF 140 KM/HOUR.
13. PROVIDE ALLOWANCE FOR EXPANSION AND CONTROL JOINTS WHERE SHOWN AND AS REQUIRED. LOCATION OF ALL JOINTS SHALL BE REVIEWED WITH THE ENGINEER.

6 NOTES - EXTERIOR ENVELOPE
12" = 1'-0"

RESIDUAL PRESSURE CALCULATION
XX.X=INLET PRESSURE - PSI
YY.Y=CRITICAL PATH FRICTION - PSI
ZZ.Z=RESIDUAL PRESSURE - PSI

7 RESIDUAL PRESSURE CALCULATION
12" = 1'-0"

OCCUPIED AREA - SQFT

XXX=RECEPTION / LOBBY
YYY=ADMIN / ENGINEERING / SALES
ZZZ=MFG / SERVICE / STAGING

8 OCCUPIED AREA
12" = 1'-0"

HVAC SIZING ESTIMATE - RECEPTION / LOBBY

XX.X=MAX COOLING LOAD - TONS
YY.Y=MAX HEATING LOAD - TONS
ZZ.Z=AIR HANDLER SIZE - TONS

9 HVAC SIZING ESTIMATE - RECEPTION / LOBBY
12" = 1'-0"

HVAC SIZING ESTIMATE - ADMIN-ENG-SALES

XX.X=MAX COOLING LOAD - TONS
YY.Y=MAX HEATING LOAD - TONS
ZZ.Z=AIR HANDLER SIZE - TONS

10 HVAC SIZING ESTIMATE - ADMIN-ENG-SALES
12" = 1'-0"

HVAC SIZING ESTIMATE -MFG - SERVICE
XX.X=MAX COOLING LOAD - TONS
YY.Y=MAX HEATING LOAD - TONS
ZZ.Z=AIR HANDLER SIZE - TONS

11 HVAC SIZING ESTIMATE -MFG - SERVICE
12" = 1'-0"

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No.	Description	Date

ARCDESIGN PUMPS
BUILDOUT PLAN
RS-PROJECT

Project number	Project Number
Date	Issue Date
Drawn by	A.R.
Checked by	Checker

A102

Scale 12" = 1'-0"

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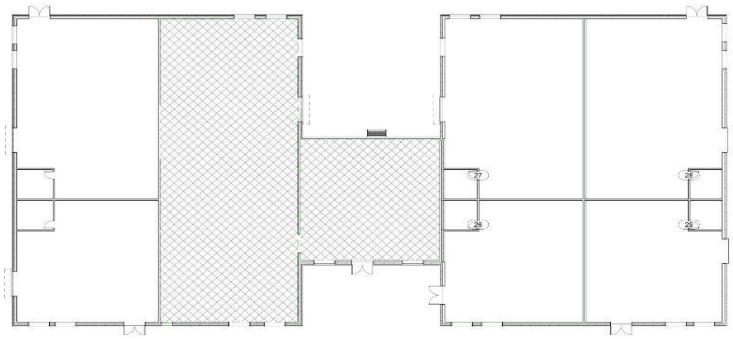
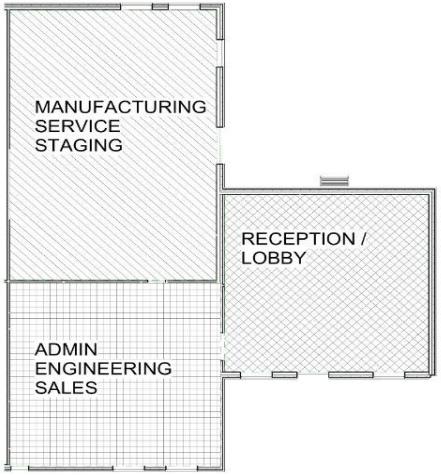


② 1 - Building Plan
1/16" = 1'-0"



③ 1 - Buildout Plan1
3/32" = 1'-0"

① 1 - Buildout Space Plan
1/8" = 1'-0"

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No.	Description	Date

ARCDESIGN PUMPS
BUILDOUT PLAN
RS-PROJECT

Project number	Project Number
Date	Issue Date
Drawn by	A.R.
Checked by	Checker

A103

Scale	As indicated

3/16/2022 12:03:56 AM

HVAC: AIR TERMINALS/ AIR SUPPLY PLANS/ DETAILS & BUILDOUT ZONES/DETAILS

M101

M102

M401

M103

M402

HVAC Zone Schedule 2							
Calculated Area per Cooling Load	Calculated Area per Heating Load	Calculated Cooling Load	Calculated Cooling Load per area	Calculated Heating Load	Calculated Heating Load per area	Calculated Supply Airflow	Calculated Supply Airflow per area
Not Computed	Not Computed	1539.2 Btu/h	Not Computed	0.0 Btu/h	Not Computed	66 CFM	Not Computed
Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed
Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed
Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed

HVAC Zone Schedule
Name
Zone-Lobby
Zone-Admin
Zone-MFG

1 1 - Buildout Zones
3/32" = 1'-0"

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ARCDESIGN PUMPS

BUILDOUT PLAN

HVAC Zone Plan

Project number	WEEK 10
Date	3/27/22
Drawn by	AR
Checked by	Checker

M101

Scale 3/32" = 1'-0"

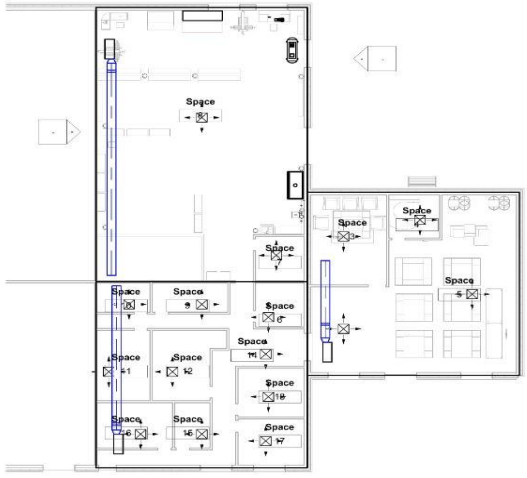
3/27/2022 2:16:32 PM

Mechanical Equipment Schedule

Type	Family	System Name
Johnson Pump FRE(S)32-110	Pump_FRES32-110_15078	
1830 x 900 mm	fume_hood_3523	
Air_Compressor_5635	Air_Compressor_5635	
30000 Btu	Air Handling Unit - Split System - Horizontal	Mechanical Supply Air 1
30000 Btu	Air Handling Unit - Split System - Horizontal	Mechanical Supply Air 2
30000 Btu	Air Handling Unit - Split System - Horizontal	Mechanical Supply Air 3

HVAC Zone Schedule 2

Calculated Area per Cooling Load	Calculated Area per Heating Load	Calculated Cooling Load	Calculated Cooling Load per area	Calculated Heating Load	Calculated Heating Load per area	Calculated Supply Airflow	Calculated Supply Airflow per area
Not Computed	Not Computed	1539.2 Btu/h	Not Computed	0.0 Btu/h	Not Computed	66 CFM	Not Computed
Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed
Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed
Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed	Not Computed



1 - Buildout Zones HVAC
3/32" = 1'-0"

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ARCDESIGN PUMPS

BUILDOUT PLAN

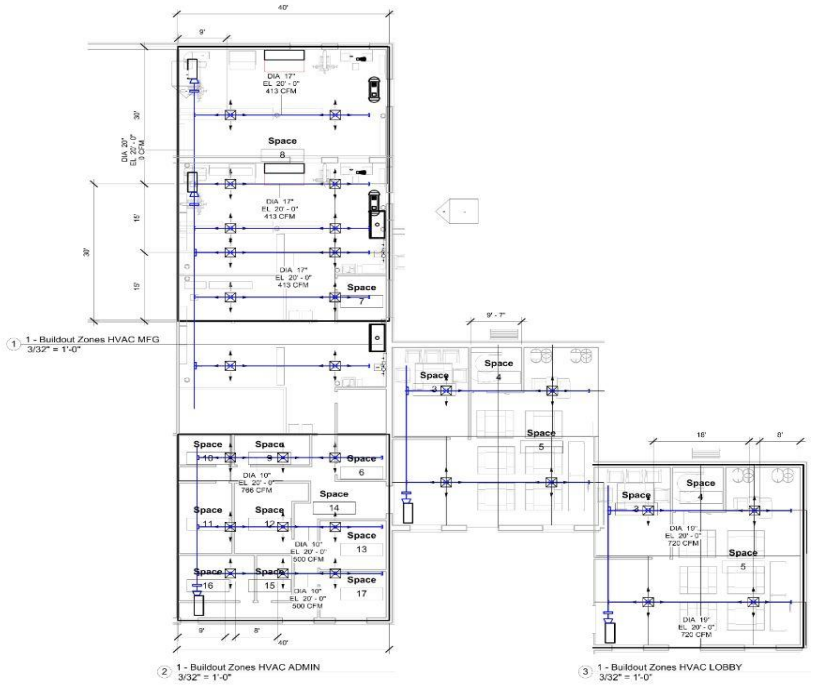
HVAC Components

Project number	WEEK 10
Date	3/27/22
Drawn by	AR
Checked by	Checker

M102

Scale 3/32" = 1'-0"

3/27/2022 2:16:13 PM



1 - Buildout Zones HVAC MFG
3/32" = 1'-0"

2 - Buildout Zones HVAC ADMIN
3/32" = 1'-0"

3 - Buildout Zones HVAC LOBBY
3/32" = 1'-0"

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No.	Description	Date

ARCDESIGN PUMPS

BUILDOUT PLAN

HVAC Supply Air Plan

Project number	WEEK 10
Date	3/27/22
Drawn by	Author
Checked by	Checker

M103

Scale 3/32" = 1'-0"

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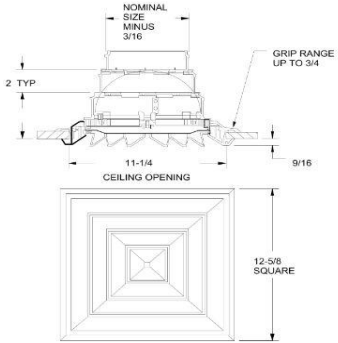
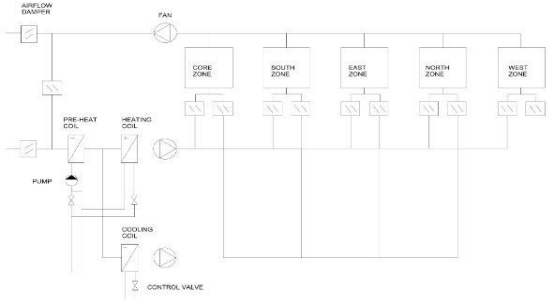
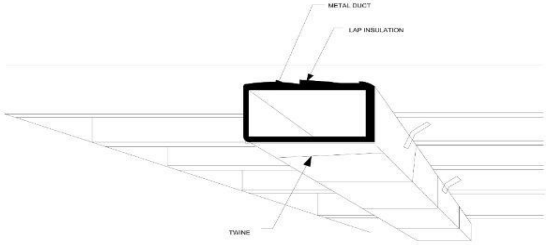


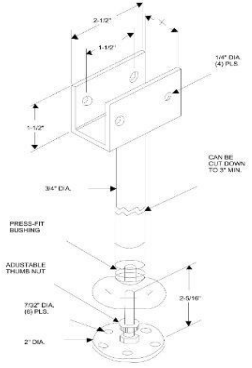
1 AIR REGISTER MOUNTING
12" = 1'-0"



2 Dual Fan Dual Duct Schematics
12" = 1'-0"



3 Duct Insulation
12" = 1'-0"



4 Partition Floor Bracket
12" = 1'-0"

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No.	Description	Date

ARCDESIGN PUMPS BUILDOUT PLAN DETAILS

Project number	WEEK 10
Date	3/27/22
Drawn by	Author
Checked by	Checker

M402

Scale 12" = 1'-0"

4/3/2022 2:35:38 PM

FIXTURE PLAN
PLUMBING/DETAILS

A104

M403

1 - Buildout Zones FIXTURE PLAN
3/32" = 1'-0"

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No.	Description	Date

ARCDESIGN PUMPS

BUILDOUT PLAN

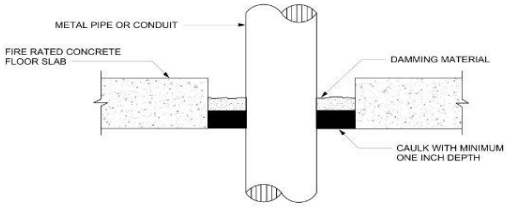
FIXTURE PLAN PLUMBING

Project Number	WEEK 10
Date	4/8/22
Drawn By	AR
Checked By	Checker

A104

Scale 3/32" = 1'-0"

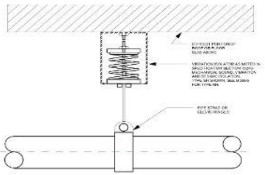
4/8/2022 2:28:45 PM



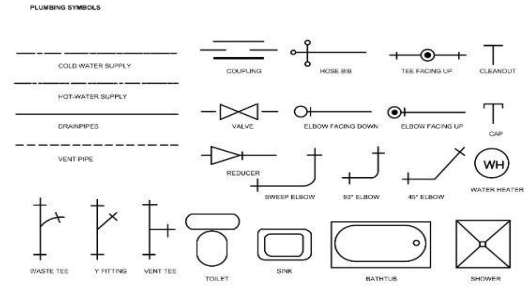
FIRE RATED PIPE PENETRATION DETAIL

1. CAULK SHALL BE 3M FIRE BARRIER CP25 N/S, NO SAG CAULK FOR FILLING VERTICAL OR HORIZONTAL GAPS FROM BELOW OR APPROVED EQUAL.
2. MATRIAL USED FOR DAMMING SHALL EITHER BE FIBERGLASS INSULATION, BACKER ROD OR MINERAL WOOL.
3. MATERIALS SHALL BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

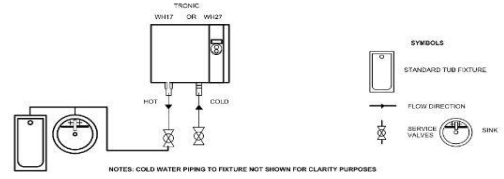
1 Conduit Penetration
12" = 1'-0"



2 Pipe Vibration Isolation Hanger
12" = 1'-0"



4 Plumbing Symbols
12" = 1'-0"



3 POU On Demand HW
12" = 1'-0"

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No.	Description	Date

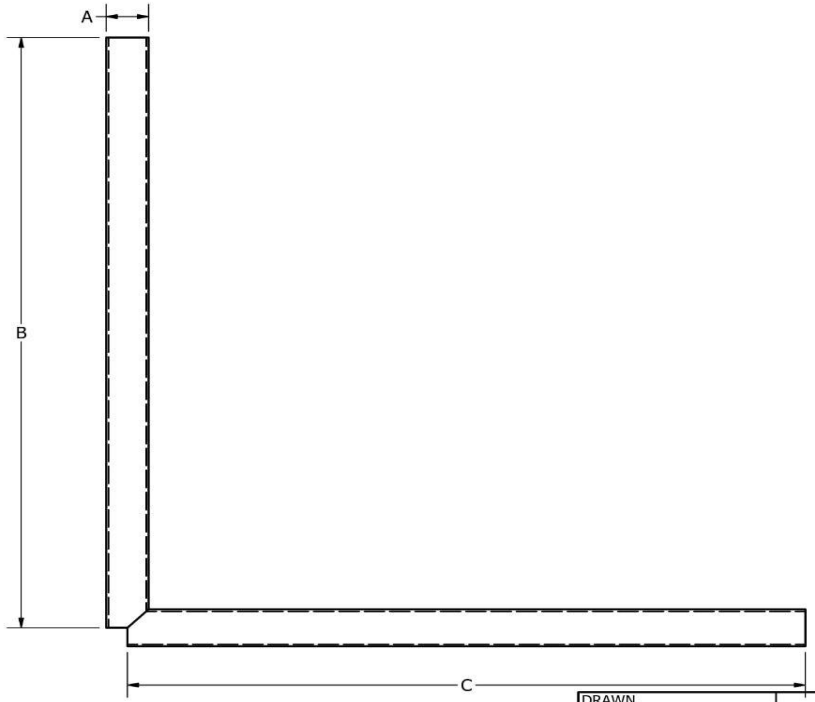
ARCDESIGN PUMPS
BUILDOUT PLAN
DETAILS

Project number	WEEK 10
Date	4/8/22
Drawn by	AR
Checked by	Checker

M403

Scale 12" = 1'-0"

4/8/2022 2:27:04 PM



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MFG		
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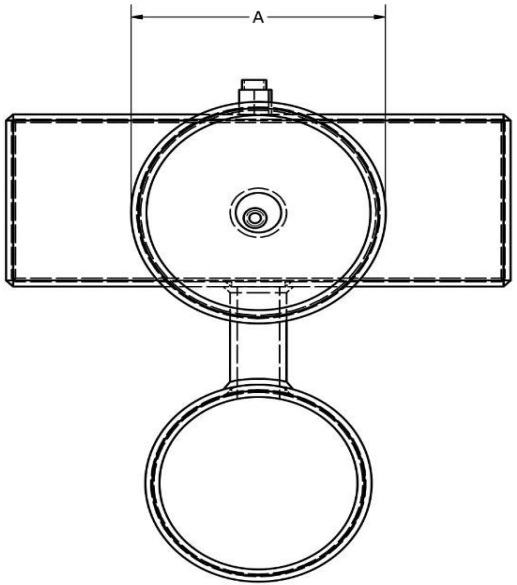

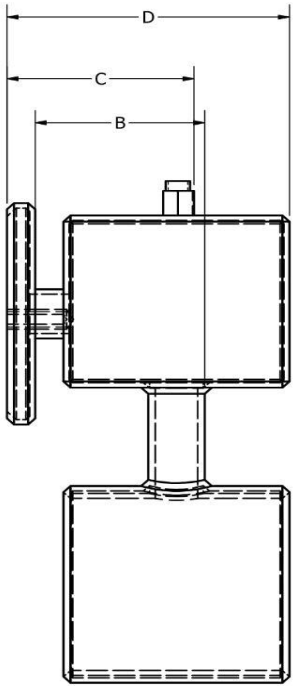

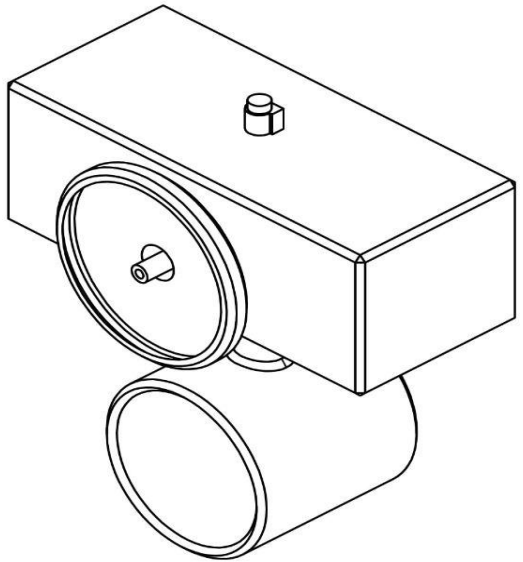

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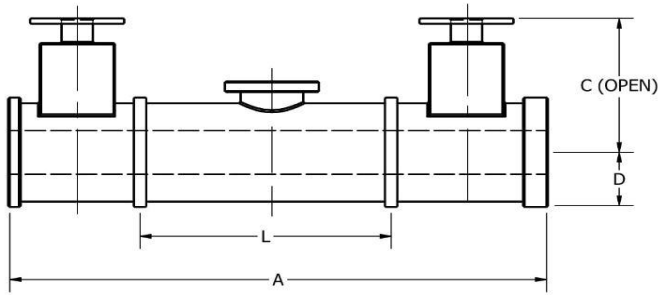

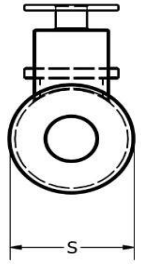

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MFG		
APPROVED		SIZE B / DWG NO Part3 Double Check Valve TAB / REV
		SCALE 1 / 9 / SHEET 1 OF 1

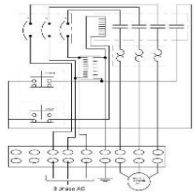
MECHANICAL: POWER DISTRIBUTION & LIGHTING

E200

E101

Electrical Circuit Schedule

Panel	Circuit Number	Voltage	Apparent Current	Load Classification	Number of Elements
ADM-1	ADM-1-1	120 V	12 A	Receptacle	6
ADM-1	ADM-1-2	120 V	3 A	Receptacle	2
ADM-1	ADM-1-3	120 V	9 A	Receptacle	6
ADM-1	ADM-1-4	120 V	3 A	Receptacle	2
ADM-1	ADM-1-5	120 V	2 A	Receptacle	1
ADM-1	ADM-1-6	120 V	12 A	Receptacle	6
ADM-1	ADM-1-7	120 V	2 A	Receptacle	1
ADM-1	ADM-1-8.1 A	208 V	10 A	Power	1
ADM-1	ADM-1-9	120 V	3 A	Receptacle	2
ADM-1	ADM-1-11	120 V	8 A	Receptacle	5
ADM-1	ADM-1-12	120 V	11 A	Receptacle	7
ADM-1	ADM-1-13	120 V	2 A	Receptacle	1
ADM-1	ADM-1-14	120 V	12 A	Lighting - Dwelling Unit	15
ADM-1	Feed Through Lugs	208 V	10 A	Power	1
MFG-1	MFG-1-1	120 V	11 A	Receptacle	7
MFG-1	MFG-1-2.4	208 V	10 A	Power	1
MFG-1	MFG-1-3.5	208 V	19 A	Power	2
MFG-1	MFG-1-6.8	208 V	10 A	Power	1
MFG-1	MFG-1-7	120 V	13 A	Lighting - Dwelling Unit	24
MFG-2	MFG-2-1	120 V	15 A	Receptacle	10
MFG-2	MFG-2-2.4	208 V	10 A	Power	1



1 3 phase starter schematics
12" = 1'-0"

Electrical Equipment Schedule

Panel Name	Family and Type	Power Connected Current
DTL MAIN	Lighting and Appliance Panelboard - 208V MLO: 225 A	39 A
ADM-1	Lighting and Appliance Panelboard - 208V MLO: 225 A	11 A
MFG-1	Lighting and Appliance Panelboard - 208V MLO: 225 A	22 A
MFG-2	Lighting and Appliance Panelboard - 208V MLO: 225 A	6 A

2 conduit mounting bracket
12" = 1'-0"

TYPICAL WIRING DIAGRAMS

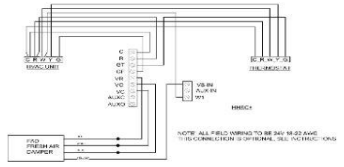


FIGURE 1 SINGLE STAGE HEATING/COOLING

3 heating and cooling
12" = 1'-0"

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No.	Description	Date

ALEJANDRO RAYA

WEEK 15

SCHEDULES & DETAILS

Project Number	WEEK 14
Date	5/8/22
Drawn By	AR
Checked By	Checker

E200

Scale 12" = 1'-0"

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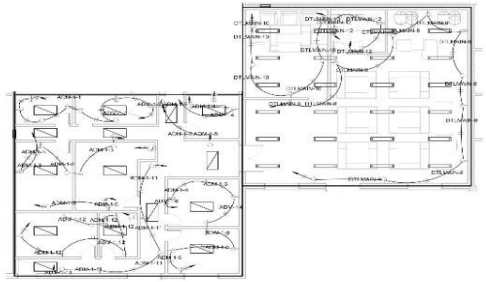
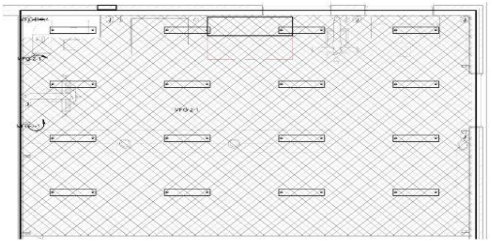
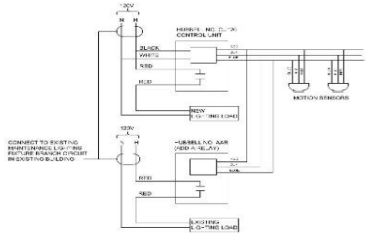


1 1 - Power Dist - ADM-1
1/8" = 1'-0"

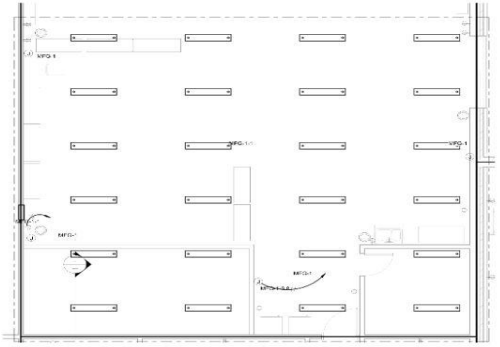


3 1- Power Dist - MFG-2
1/4" = 1'-0"

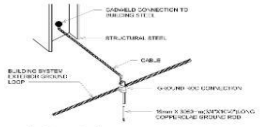


MOTION SENSOR LIGHT CONTROL
WIRING SCHEMATIC DIAGRAM

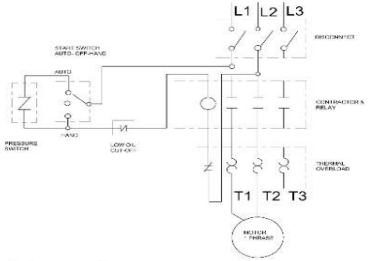
6 motion sensor light wiring diagram
12" = 1'-0"



2 1- Power Dist - MFG-1
1/4" = 1'-0"



6 ground rod structural steel
12" = 1'-0"



4 single phase sump pump wiring
12" = 1'-0"

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No.	Description	Date

ALEJANDRO
RAYA

WEEK 15

LIGHTING PLAN

Project Number	WEEK 14
Date	5/8/22
Drawn By	AR
Checked By	Checker
Scale	As indicated

E101

5/7/2023 4:32 PM