COMMERCIAL

2023 PPRBC
2021 IECC Amended

Address: 11910 TOURMALINE DR 124, PEYTON

Parcel: 4230319054

Plan Track #: 206471 **Received: 06-Oct-2025** **(BPHILLIPS)**

Description:

COMMERCIAL INTERIOR ~~REMODEL~~ FINISH

Contractor:

Code 2021 IBC

Occupancy Class B

Type of Construction II-B

Floor or # of stories 1

Occupancy Load 20

Fire Sprinkled for:
( ) Area ( ) Height ( ) Bsmt
(X) Occ/Use ( ) Other ( ) N/A

Mixed Use: ( ) Acc. ( ) Separate (X) N/Separate
( ) N/A ( ) Combined

Fire Wall ( ) Yes (X) No Largest Area _____

Horizontal Assembly: ( ) Structure ( ) Drop Clg (X) N/A

Alt. Fire Hazm/HP

Fire:

_____ _____

Required PPRBD Departments (6)

Enumeration
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10/07/2025 1:48:02 PM
Becky A
ENUMERATION

Floodplain
(N/A) RBD GIS

Construction
Released for Permit
10/17/2025 2:33:29 PM
Dougc
CONSTRUCTION

Electrical
Released for Permit
10/17/2025 2:37:14 PM
Bertha
ELECTRICAL

Mechanical
Released for Permit
10/17/2025 2:49:07 PM
trevorh
MECHANICAL

Plumbing
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shanen
PLUMBING

Release of this plan does not preclude compliance with all applicable codes, ordinances and other pertinent regulations. This plan set must be present on the job site for every inspection.

Required Outside Departments (5)

County Zoning

N/A
Plan Review
10/13/2025 10:48:15 AM
dsdbenson2
EPC Planning & Community Development Department

Falcon Fire (CSFD)

APPROVED
10/16/2025 4:18:33 PM
Phil.Valdez
Colorado Springs Fire Department
FCS-C-CN-25-01254

Falcon Hazmat (CSFD)

N/A
10/16/2025 4:25:12 PM
Phil.Valdez
Colorado Springs Hazmat

Meridian Ranch Water

Meridian Ranch Waste Water

Pikes Peak REGIONAL Building Department

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10/17/2025 1:44:37 PM
REGIONAL Building Department
Becky A
ENUMERATION

CODE STUDY FORM

SECTION 1.0

This form is intended to be completed using a PDF reader and must be stamped by the design professional of record. This form must be included as an attachment, or as part of the second page of the plans for all commercial projects. All information must be provided.

Address: 11910 Tourmaline Dr, Suite 124 City: Peyton Zip: 80831

Tax Schedule Number:(1) 4230319054

Legal Description:(1)

LOT 4 THE SHOPS AT MERIDIAN RANCH FILING NO.1

ZONING DISTRICT: (1) EL PASO COUNTY

FIRE JURISDICTION: (1) FALCON **IF OTHER, SPECIFY**

(1) *This information may be found HERE*

SCOPE OF PROJECT:

PHASED PROJECTS:

- [ ] Foundation Only
- [ ] Superstructure
- [ ] Core/Shell
- [ ] Finish

REGULAR PROJECTS:

- [ ] Interior Remodel
- [x] Interior Finish
- [ ] Addition
- [ ] Complete Building
- [ ] Change of Occupancy
- [ ] Other

DESCRIPTION OF WORK:

Interior remodel to open gym

PRINCIPAL USE OF BUILDING: B

TYPE OF CONSTRUCTION: *(International Building Code)*

- [ ] I-A
- [ ] II-A
- [ ] III-A
- [ ] IV-A
- [ ] IV-C
- [ ] V-A
- [ ] I-B
- [x] II-B
- [ ] III-B
- [ ] IV-B
- [ ] IV-HT
- [ ] V-B

COMPLETION OF THIS FORM DOES NOT TAKE THE PLACE OF REQUIRED CODE DATA ON THE PLAN SET

SECTION 2.0

BUILDING HEIGHTS AND AREAS*:

Total Building Area:	17,352	Ft^2	Existing Building Area:	17,352	Ft^2
First Floor:		Ft^2	New Building Area:	No change	Ft^2
Second Floor:		Ft^2	Total Height:	33	Ft
Third Floor:		Ft^2	Number of Stories:	1	
Fourth Floor:		Ft^2	Basement Area:	N/A	Ft^2
Fifth Floor:		Ft^2	Number of Mezzanines:	N/A	
Sixth Floor:		Ft^2	Mezzanine Area:		Ft^2
Seventh Floor:		Ft^2	Unlimited Area:	CHOOSE UNLIMITED AREA PROVISION	

TOTAL AREA FOR SCOPE OF WORK: 1,164 **Ft^2**

**Provide per floor details, height increase (IBC 504), and area increase (IBC 506) calculations on plans if applicable. If additional stories are required, provide an additional sheet.*

OCCUPANCIES: *Specify all occupancies that apply and indicate the square footage of each*

B	1,164	Ft^2	CHOOSE OCCUPANCY		Ft^2
CHOOSE OCCUPANCY		Ft^2	CHOOSE OCCUPANCY		Ft^2
CHOOSE OCCUPANCY		Ft^2	CHOOSE OCCUPANCY		Ft^2

SPECIAL USE AND OCCUPANCIES ☐ ***YES*** ☐ ***NO***

CHOOSE SPECIAL USE AND OCCUPANCIES

List all, if more than one applies:

SEPARATION OF OCCUPANCIES:

☒ Nonseparated Occupancies ☐ Separated Occupancies ☐ No Mixed Occupancies

If Nonseparated Occupancies, specify worst case occupancy: CHOOSE WORST CASE OCCUPANCY

INCIDENTAL USE AREAS: *Maximum allowed is 10%*

CHOOSE INCIDENTAL USE PROVISION	Separation:	CHOOSE INCIDENTAL USE SEPAR
CHOOSE INCIDENTAL USE PROVISION	Separation:	CHOOSE INCIDENTAL USE SEPAR
CHOOSE INCIDENTAL USE PROVISION	Separation:	CHOOSE INCIDENTAL USE SEPAR

ACCESSORY OCCUPANCY AREAS: *Maximum allowed is 10%*

CHOOSE ACCESSORY OCCUPANCY	Accessory Area:		Ft^2
CHOOSE ACCESSORY OCCUPANCY	Accessory Area:		Ft^2
CHOOSE ACCESSORY OCCUPANCY	Accessory Area:		Ft^2

SECTION 3.0

FIRE SPRINKLER SYSTEM: ☐ Non-Sprinklered ☒ Sprinklered AREA INCREASE (IBC 506)

CLASSIFICATION OF FIRE SPRINKLER SYSTEM: NFPA 13 (IBC 903.3.1.1)

FIRE ALARM SYSTEM: ☐ Not Required ☒ Required AUTOMATIC

MEANS OF EGRESS: *For scope of work*

Exits Required:	1		Exits Provided:	2	
Occupant Load:	20		Number of Interior Exit Stairways:	N/A	
Actual Max. Travel Distance:	37.5	Ft	Interior Exit Stairway Rating:	N/A	Hrs
Actual Common Path of Travel:	10	Ft	Number of Fire Walls:	No change	
Corridor Rating:	No change	Hrs.	Fire Wall Rating:	No change	Hrs

SHAFTS: *If this building contains rated shafts, specify required shaft support*

Shaft Construction Rating: Hrs Supporting Construction Rating: Hrs

RATED HORIZONTAL ASSEMBLIES: *Location, if applicable* ☐ Structure ☐ Dropped Ceiling

BUILDING RISK CATEGORY: ☐ I ☒ II ☐ III ☐ IV

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10/17/2025 2:33:25 PM
Pikes Peak Regional Building Department
Dougc
CONSTRUCTION

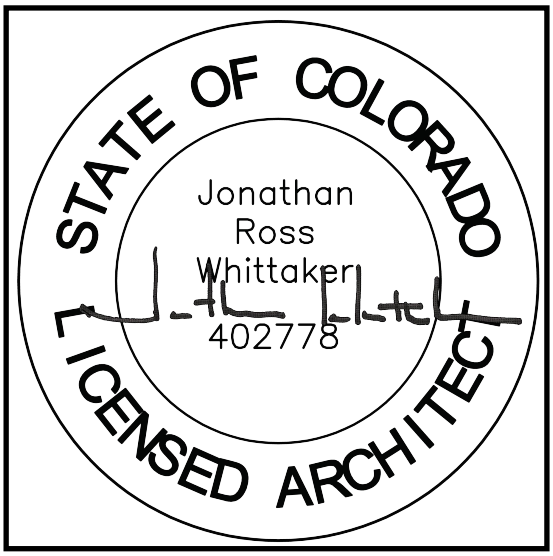
As the design professional of record, I certify this information is correct to the best of my knowledge. I further acknowledge my stamp pertains to Sections 1.0, 2.0, and 3.0 only.

Signature

10/17/2025

Date

Colorado Licensed Design



Professional Stamp

SECTION 4.0

	Yes	No
Does the scope of work involve a change of occupancy classification? If yes, what was the most recent existing use? _____ Proposed use? _____		X
Will marijuana be cultivated, processed or dispensed at this location? If yes, mark all activities that will apply: ☐ Dispensary ☐ Cultivation ☐ Processing ☐ Extraction For more information visit: https://coloradosprings.gov/fire-department/page/medical-marijuana-extraction-operations		X
If applicable, is the **approved** Development Plan included with this submittal?		
Does this project disturb 1 or more acres, or have construction activities that are a part of a larger common plan of development or sale? If yes, a City of Colorado Springs, Stormwater Enterprise Division, Grading and Erosion Control Permit and plan is required: https://coloradosprings.gov/stormwater-enterprise/page/grading-and-erosion-control-permit?mlid=6156		X
Does this project include an elevator, escalator, platform lift, chair lift, dumbwaiter, or other method of conveyance?		X
Is this permit for the purposes of finishing an existing core and shell permit (first time finish of the space)?		X
Is this a food establishment (equipment locations must be shown on plans)?		X
Does the scope of work include a swimming pool?		X
Does the scope of work have venting equipment (hoods, catalytic oxidizers, scrubbers)?		X
If applicable, are the approved civil construction drawings (including utility service plan) included in submittal?		
Will there be any new utility meters or changes to existing meters? If yes, which are affected (check): ☐ **Gas** ☐ **Electric** ☐ **Water** Gas: Existing load _____ Proposed load _____ Electric: Existing load _____ Proposed load _____ Water: Existing load _____ Proposed load _____ Note: Commercial Water Meter Sizing Form required if any changes to water meter or significant fixture count changes are proposed		X
Will vehicle maintenance or vehicle storage (parking garage) activities occur? If yes, state square footage of area this will occur: _____		X
Will Electric Vehicle (EV) charging stations be installed? If yes, specify location and level (1, 2, or 3): _____		X
Is a sand/oil or grease interceptor proposed? If yes, state size: _____		X
Is an internal grease trap proposed? *If yes, contact CSU at FOG@csu.org to discuss a variance*		X
Is there a backflow prevention device indicated (hose bib locations must be shown on plan)?		X

SECTION 4.0 (CONT)

	Yes	No
Per IFC Chapter 50, does the scope of work include any hazardous materials? If the project is located within the City of Colorado Springs, attach a Hazardous Material Inventory Statement (HMIS) - available at https://coloradosprings.gov/hazmat?mlid=42381 **If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction**		X
Per IFC Chapter 32, does the scope of work involve the stacking of commodities higher than 12' or high hazard commodities higher than 6' AFF? If the project is located within the City of Colorado Springs, attach a High Pile Storage Questionnaire form– available at https://coloradosprings.gov/fire-department/page/high-pile-combustible-storage-hpcs-permit **If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction**		X
Per IFC 905, does the scope of work require fire protection standpipes? If yes, indicate reason and cite code reference:		X
Per IBC 904, does the scope of work or building require a fixed fire protection system?		X
Per IBC 909, does the scope of work include a smoke control system? If yes, indicate type (check): ☐ **Passive** ☐ **Active**		X
Does the scope of the work include a childcare facility?		X
Does the scope of the work include a Body Art (tattoo, piercing, etc.) facility?		X
Specify total earthmoving area of project in square feet:		
Will the disturbance be at least 1 acre, but less than 25 acres of land, and the disturbance period will be 6 months or less? If yes, submit a construction Activity Permit Application to EPC Public Health: https://www.elpasocountyhealth.org/licenses-permits-inspections-water-testing/construction-land-use/construction-activity-permit/		X
Will the disturbance be 25 or more acres of land, or the disturbance period will exceed 6 months? If yes, submit an Air Pollution Emission Notice to the Colorado Department of Public Health and Environment: https://www.colorado.gov/pacific/cdphe/air/apens-and-permits		X
Was a formal Pre-Submittal Consultation with Pikes Peak Regional Building Department performed for this project? With Whom:		
Is this project designated as official RAPID RESPONSE? If Yes, attach the RAPID RESPONSE CERTIFICATE to the form prior to submittal		

REQUIRED CONTACT INFORMATION:

Project Contact Name:	Jonathan Whittaker
Email address:	jwhittaker@yowarch.com
Phone Number:	7196231412

KID'S GYM

INTERIOR FINISH

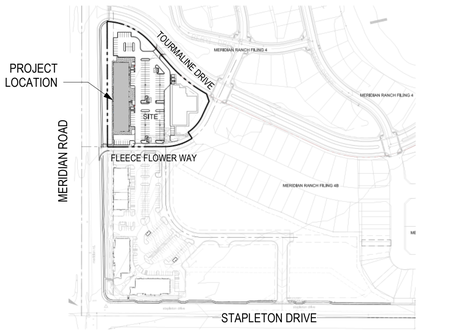
11910 TOURMALINE DR., SUITE 124, PEYTON CO 80831

THE Shops AT MERIDIAN RANCH

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES BETWEEN EXISTING AND ARCHITECTURAL PLANS TO ARCHITECT BEFORE COMMENCING ANY PORTION OF THE WORK. PRIOR TO BIDDING, CONTRACTOR SHALL INSPECT EXISTING CONDITION OF BUILDOUT AND DETERMINE EXTENT NECESSARY TO COMPLETE THE COMMON AREA REMODEL.
2. ALL WORK SHALL CONFORM TO BUILDING CODES AND REQUIREMENTS. EXIT SIGNS, EMERGENCY LIGHTING, RATED EXIT SYSTEMS SHALL BE AS REQUIRED BY CURRENT BUILDING CODES. ALL NEW CONSTRUCTION SHALL MEET ADA REQUIREMENTS AS OUTLINED BY ADA. PROVIDE FIRE EXTINGUISHERS/CABINETS AS MAY BE REQUIRED BY COLORADO SPRINGS FIRE DEPARTMENT.
3. ALL WALKWAYS, ENTRIES, DOORS, HARDWARE, OUTLETS, SWITCHES, ETC., PROVIDED SHALL MEET REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. IN THE EVENT THERE IS A CONFLICT BETWEEN THESE DOCUMENTS AND REQUIREMENTS OF "THE ACT", THE REQUIREMENTS OF "THE ACT" SHALL GOVERN.
4. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" DOCUMENT A_ 201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, LATEST EDITION, AND ITS SUPPLEMENTS IF ANY, RELATES DIRECTLY TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THE CONTRACT.
5. ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE, UNLESS EXIT DOORS ARE PROVIDED WITH A SIGN STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS" PER THE 2006 INTERNATIONAL BUILDING CODE.
6. CONTRACTOR MUST SUBMIT LIEN RELEASES WITH EACH PAY REQUEST.
7. CONTRACTOR SHALL PAY FOR ALL NECESSARY PERMITS OR FEES.
8. CONTRACTOR SHALL NOT MAKE ANY MATERIAL SUBSTITUTIONS OR DETAIL CHANGES WITHOUT ARCHITECT'S APPROVAL. NO CHANGE ORDERS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT. PROCESS ALL CHANGE ORDERS AS REQUIRED BY THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" DOCUMENT A_201.
9. OWNER SHALL PAY ALL UTILITY BILLS RELATING TO THE SPACE UNDER CONSTRUCTION FOR THE CONSTRUCTION PERIOD.
10. CONTRACTOR SHALL PROVIDE COMPLETE MANUALS AND AS-BUILT DRAWINGS TO THE ARCHITECT UPON COMPLETION OF THE PROJECT.
11. 1 YR. WARRANTY SHALL BEGIN AS DATED ON THE "CERTIFICATE OF SUBSTANTIAL COMPLETION" ISSUED BY ARCHITECT.
12. BUILDING IS FULLY SPRINKLERED AND NEW WORK SHALL BE UPDATED TO COMPLY AND BE DESIGN/BUILD AND SUBMITTED TO CSFD FOR APPROVAL.

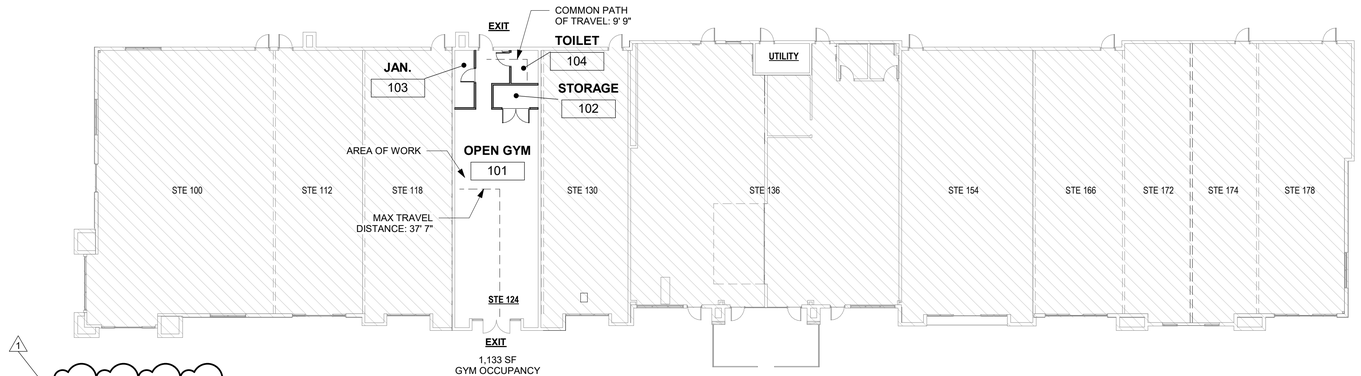
VICINITY MAP



1 VICINITY MAP
12" = 1'-0"

NORTH

CODE INFORMATION



1
2 OVERALL FLOOR PLAN
1/16" = 1'-0"

APPLICABLE CODES:

2023 PIKES PEAK REGIONAL BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL AND GAS CODE
2021 INTERNATIONAL PLUMBING CODE
2023 INTERNATIONAL ELECTRICAL CODE (NEC)
2021 INTERNATIONAL FIRE CODE
2017 ICC/ANSI A117.1 ACCESSIBILITY

PROJECT INFORMATION:

PRINCIPAL BUILDING USE:	B/M/A NON SEPERATED USES
CONSTRUCTION TYPE:	II-B
FIRE SUPPRESSION:	AUTOMATIC SPRINKLER SYSTEM - NFPA13
BUILDING FLOOR AREA:	17,352 SF (NO CHANGE)
SUITE 124 AREA:	1,133 SF
BUILDING HEIGHT:	1 STORY - 33 FT (NO CHANGE)
SEP. OF OCCUPANCIES:	NON-SEPARATED
OCCUPANCY:	B
OCCUPANCY LOAD:	20 OCCUPANTS
EXITS:	1 REQUIRED, 2 PROVIDED
TAX SCHEDULE NUMBER:	4230319054
LEGAL DESCRIPTION:	LOT 4 THE SHOPS AT MERIDIAN RANCH FILING NO. 1
ZONING:	CR

MEANS OF EGRESS (CHAPTER 10)

OCCUPANCY LOAD (TABLE 1004.1.1)

TENANT: 1,164 GROSS SF
OPEN GYM AREA: 904 SF @ 1:50 = 18 OCC
STORAGE ROOM: 50 SF @ 1:300 = .17 OCC
JAN/RR 210 SF @ 1:150 = 1.4 OCC

TENANT TOTAL: 20 OCCUPANTS

TENANT TOTAL: 20 OCCUPANTS
PLUMBING FIXTURE RATIO'S:
WATER CLOSETS: 1:25 FOR 50; 1:50
LAVATORIES: 1:40 FOR 80; 1:80

TOTAL PLUMBING FIXTURES REQUIRED:

WATER CLOSETS: 1 REQUIRED
LAVATORIES: 1 REQUIRED
DRINKING FOUNTAINS: 1 REQUIRED
SERVICE SINK: 1 REQUIRED

PLUMBING FIXTURES PROVIDED:

WATER CLOSETS: 2
LAVATORIES: 2
DRINKING FOUNTAINS: 1 DF WITH BOTTLE FILLER
* 1 BOTTLE FILLER

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Pikes Peak REGIONAL Building Department
Becky A
ENUMERATION

PROJECT TEAM

ARCHITECT:

YOW ARCHITECTS PC
115 S. WEBER STREET, SUITE 200
COLORADO SPRINGS CO 80903
CONTACT: JONATHAN WHITTAKER
719-475-8133

MECHANICAL / PLUMBING/ ELECTRICAL:

McShea Consulting, LLC
4445 Northpark Dr, Suite 200
Colorado Springs, CO 80907
Contact: Mike McShea

STATE OF COLORADO
Jonathan Ross Whittaker
402775
LICENSED ARCHITECT
10/16/2025

YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

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10/17/2025 2:33:08 PM
Pikes Peak REGIONAL Building Department
Douge
CONSTRUCTION

Revision Schedule

1	RBD Comments	10/16/2025

CONSTRUCTION DOCUMENTS
PERMIT SET

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR. SUITE 124
PEYTON, CO 80831

Project Number 22.238
Date 10/16/2025
Drawn By JS/ATT
Checked By YOW

A0.0
TITLE SHEET
Scale
As indicated

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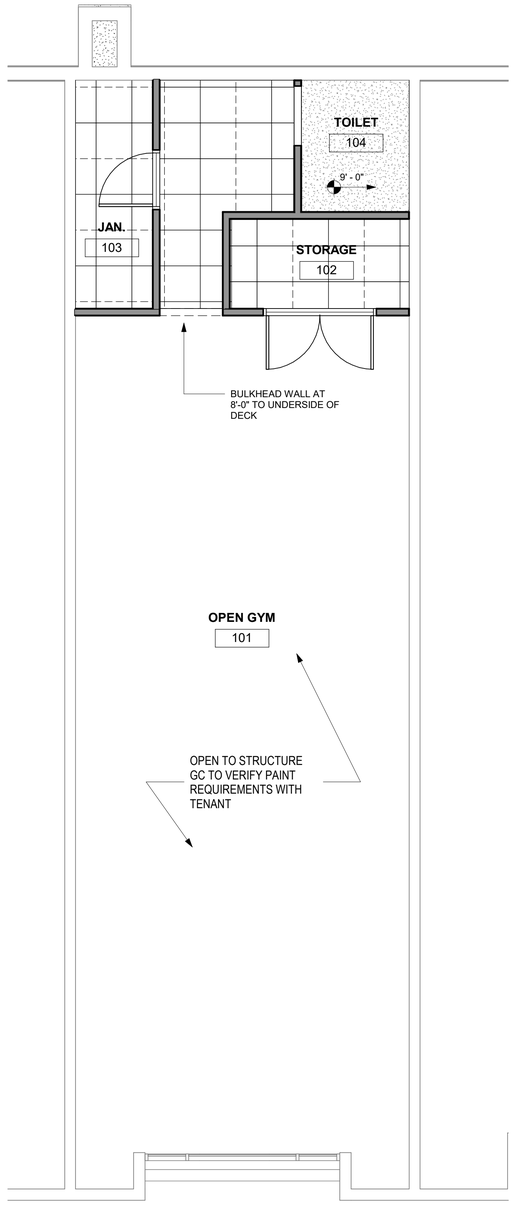
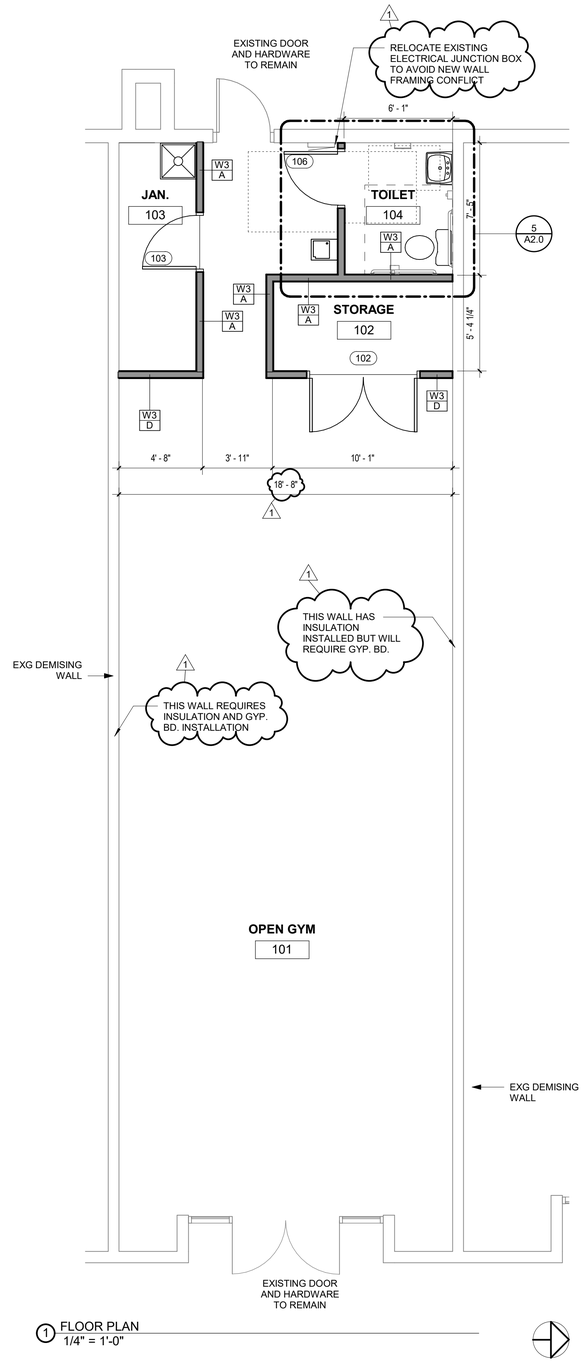


2 REFLECTED CEILING PLAN
1/4" = 1'-0"



1 FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL INTERIOR WALLS ARE W3-D UNLESS NOTED OTHERWISE.
2. PROVIDE DOUBLE 20 GA. STUDS (MIN.) AT ALL DOOR JAMBS.
3. ALL DIMENSIONS ARE TO, FACE OF METAL STUD FRAMING U.N.O.
4. WHERE NOT DIMENSIONED, FRAME DOOR OPENINGS 5" FROM FACE OF PERPENDICULAR WALL ON HINGE SIDE.
5. MOISTURE RESISTANT GYP. BD. AT WET LOCATIONS.
6. EXISTING DEMISING WALLS TO BE FINISHED TO LEVEL 4 FULL HEIGHT

   INTERIOR FINISHES TO BE SELECTED BY TENANT. GC TO COORDINATE ALL SELECTIONS.

WALL TYPES - INTERIOR WALLS

W2 2 1/2" (GA. AS REQ.) METAL STUDS AT 16" O.C.

W3 3 5/8 (GA. AS REQ.) METAL STUDS AT 16" O.C.

W6 6" (GA. AS REQ.) METAL STUDS AT 16" O.C.

A (STANDARD WALL)
1 LAYER 5/8" GYP. BD. EACH SIDE OF STUD FRAMING. TERMINATE FRAMING 6" ABOVE HIGHEST ADJACENT FINISHED CEILING. LATERALLY BRACE FRAMING AT 4'-0" MIN. O.C. AND AT ENDS. PROVIDE FULL HEIGHT SOUND BATT INSULATION.

D (FULL HEIGHT)
1 LAYER 5/8" GYP. BD. ONE SIDE OF STUD FRAMING ONLY. TERMINATE FRAMING AT BOTTOM OF METAL DECK WITH 1 1/2" SLIP TRACK.

CEILING NOTES

CEILINGS

GYPSUM BOARD CEILING:
5/8" GYPSUM BOARD CEILING OVER MTL STUDS @ 16" O.C.
LEVEL 4 FINISH, PAINT PER TENANT SELECTION

SUSPENDED ACOUSTICAL CEILING:
2X4 ACOUSTICAL GRID CEILING, ARMSTRONG OR EQUAL

NOTES

1. ALL S.A.T. CEILINGS TO BE STANDARD 15/16" WHITE METAL TEE GRID. U.N.O.
2. REFER TO MEP DRAWINGS FOR LIGHTING AND DIFFUSER LOCATIONS. NOTIFY ARCHITECT OF CONFLICTS.
3. ALL GYP. BD. CEILINGS TO BE 2" BELOW HEIGHT OF SAT CEILING. UNLESS NOTED OTHERWISE.
4. AT S.A.T. CEILINGS, EXTEND GYPSUM BOARD TO 6" ABOVE CEILING. AT GYP. BD. CEILINGS, TERMINATE GYP. BD. AT CEILING UNLESS OTHERWISE NOTED.
5. PROVIDE CONCEALED FIRE SPRINKLER HEADS AT ALL FINISHED AREAS.

STATE OF COLORADO
Jonathan Ross Whittaker
402775
LICENSED ARCHITECT
10/16/2025

YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

Released for Permit
10/17/2025 2:33:12 PM
Pikes Peak Regional Building Department
Douglas County
CONSTRUCTION

Revision Schedule

1	RBD Comments	10/16/2025

CONSTRUCTION DOCUMENTS
PERMIT SET

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR. SUITE 124
PEYTON, CO 80831

Project Number
22.238

Date
10/16/2025

Drawn By
JS/ATT

Checked By
YOW

A1.0
FLOOR PLAN/RCP

Scale
As indicated

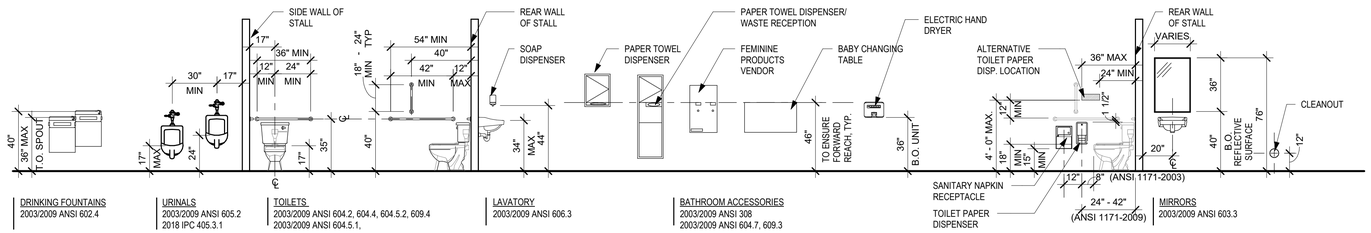
10/16/2025 4:36:50 PM

NOTE: DIMENSIONS SHOWN ARE TO FINISHED WALL

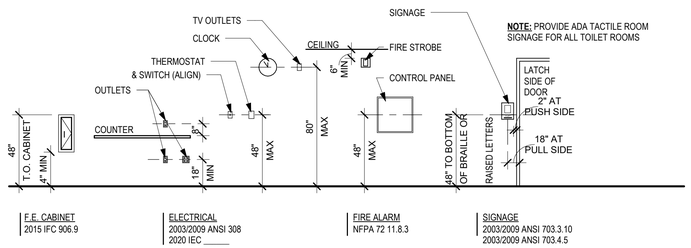
NOTE: SMOOTH CLEANABLE NON ABSORBENT SURFACE MUST BE INSTALLED WITHIN 2' OF PLUMBING FIXTURES IN TOILET ROOMS AND MOP SINKS (MIN OF 4'-0" AFF)

NOTE: NOT ALL ITEMS USED

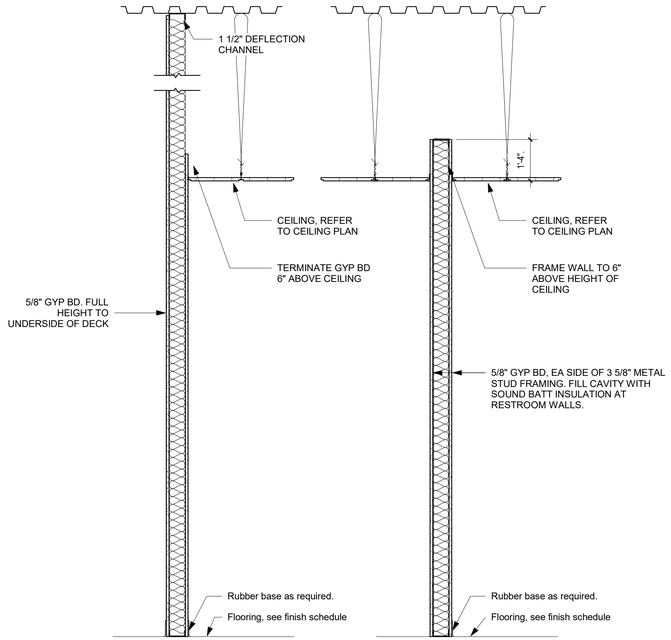
NOTE: PROVIDE BLOCKING BEHIND ALL ACCESSORIES



9 STANDARD MOUNTING HEIGHTS - ADA/ANSI
1/4" = 1'-0"



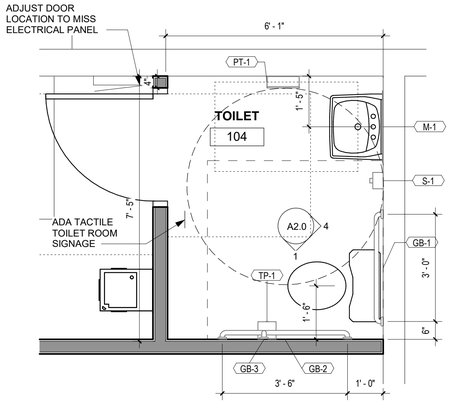
10 EQUIPMENT MOUNTING HEIGHTS - ADA/ANSI
1/4" = 1'-0"



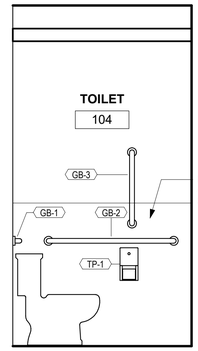
2 WALL PARTITIONS
3/4" = 1'-0"

SEE EQUIPMENT SCHEDULE ON A2.0

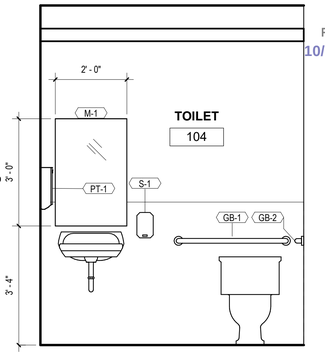
NOTE: FRP ON ALL WALLS TO 4'-0"



5 ENLARGED TOILET ROOM PLAN
1/2" = 1'-0"



1 TOILET SOUTH
1/2" = 1'-0"



4 TOILET EAST
1/2" = 1'-0"

TOILET ACCESSORIES SCHEDULE					
ID#	ITEM DESCRIPTION	MANUFACTURER	MODEL #	FURNISHED BY	INSTALLED BY
GB-1	42" GRAB BAR	BOBRICK	B-5806 x 42	GC	GC
GB-2	36" GRAB BAR	BOBRICK	B-5806 x 36	GC	GC
GB-3	18" GRAB BAR, VERTICAL MOUNT	BOBRICK	B-5806 x 18	GC	GC
M-1	MIRROR	BOBRICK	B-165 24x36	GC	GC
PT-1	Surface Mounted Paper Towel Dispenser	BOBRICK	B-262	GC	GC
S-1	SOAP DISPENSER	BOBRICK	B-2111	GC	GC
SN-1	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	GC	GC
TP-1	TOILET PAPER DISPENSER	BOBRICK	B-2888	GC	GC

TENANT TO CONFIRM TOILET ACCESSORY SELECTION WITH CONTRACTOR PRIOR TO ORDERING

DOOR AND FRAME SCHEDULE - LADY BUG									
			DOOR			FRAME			
NUMBER	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	FRAME TYPE	FINISH	HARDWARE SET	COMMENTS
102	6' - 0"	7' - 0"	FLUSH	WD	STAIN	HOLLOW METAL	PAINT	STOREROOM	
103	3' - 0"	7' - 0"	FLUSH	WD	STAIN	HOLLOW METAL	PAINT	STOREROOM	
106	3' - 0"	7' - 0"	FLUSH	WD	STAIN	HOLLOW METAL	PAINT	PRIVACY	

YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

STATE OF COLORADO
Jonathan Ross Whittaker
402775
LICENSED ARCHITECT
10/16/2025

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10/17/2025 2:33:12 PM
Pikes Peak Regional Building Department
Douglas County
CONSTRUCTION

Revision Schedule

CONSTRUCTION DOCUMENTS
PERMIT SET

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR. SUITE 124
PEYTON, CO 80831

Project Number
22.238

Date
10/16/2025

Drawn By
ATT

Checked By
YOW

A2.0
INTERIOR ELEVATIONS & DETAILS
As indicated

10/16/2025 4:36:51 PM

GENERAL MECHANICAL NOTES

1. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
2. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT/PIPE RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE WORK.
3. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
4. DEMOLITION PLANS SHOW GENERAL DEMOLITION WORK TO BE PERFORMED. NOT ALL EXISTING CONDITIONS SHOWN. CONTRACTOR TO PERFORM ALL NECESSARY DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE CONTRACT DOCUMENTS.
5. FACTORY-MADE AIR DUCTS SHALL CONFORM TO UL181 IN ACCORDANCE WITH SECTION 603.6.1 OF THE INTERNATIONAL MECHANICAL CODE, 2021. LENGTH OF FLEX DUCT SHALL NOT EXCEED 10 FT.
6. ALL MECHANICAL EQUIPMENT SHALL BE LABELED AS TO THE AREA(S) SERVED IN ACCORDANCE WITH SECTION 304.12 OF THE 2021 INTERNATIONAL MECHANICAL CODE.
7. ALL POSITIVELY PRESSURIZED EXHAUST DUCT SYSTEMS WITHIN THE CEILING PLENUM SHALL BE SLEEVED OR CONSTRUCTED IN STRICT ACCORDANCE WITH THE 2021 IMC.
8. ALL SUPPLY AIR AND EXHAUST AIR DUCT JOINTS AND SEAMS SHALL BE SEALED WITH WATER BASED SEALANT EQUAL TO HARD CAST DS321.
9. PROVIDE ACCESS DOORS OR OTHER MEANS OF APPROVED ACCESS TO ALL FIRE DAMPERS AND/OR FIRE/SMOKES DAMPERS. LABEL ACCESS DOORS AND PROVIDE ACCESS POINTS PER 2021 IBC SECTION 717.4.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V OUTLET WITHIN 25 FT. OF ALL MECHANICAL EQUIPMENT FOR MAINTENANCE.
11. ALL MATERIALS WITHIN THE CEILING PLENUM SHALL BE RATED 25 FLAME AND 50 SMOKE MAXIMUM IN ACCORDANCE WITH SECTION 602.2.1 OF THE 2021 INTERNATIONAL MECHANICAL CODE.
12. PROVIDE CONCRETE PAD EXTENDING A MINIMUM OF 3" ABOVE FINISHED GRADE FOR ALL EXTERIOR GROUND MOUNTED EQUIPMENT.
13. GENERAL CONTRACTOR SHALL PROVIDE ROOF ACCESS FOR MAINTENANCE OF MECHANICAL EQUIPMENT IN ACCORDANCE WITH SECTION 306.5 OF THE 2021 IMC.
14. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS RECOMMENDATIONS. EXPOSED SOFT COPPER REFRIGERANT PIPING SHALL BE PROTECTED FROM POTENTIAL DAMAGE.
15. ALL BIRD SCREENS SHALL BE 1/4" MESH.
16. NO PLASTIC PIPE PERMITTED IN THE CEILING RETURN AIR CAVITY.
17. PROVIDE BALANCING REPORT IN ACCORDANCE WITH THE 2021 IMC AND SUBMIT TO ENGINEER FOR FINAL APPROVAL.
18. ALL PIPING PENETRATIONS THROUGH RATED WALLS AND CEILINGS SHALL BE SEALED AROUND PIPE IN ACCORDANCE WITH 2021 IBC SECTION 713.
19. SECURE PERMIT FOR MEDIUM PRESSURE GAS FROM UTILITY DEPARTMENT. MEDIUM PRESSURE GAS PIPE TO BE FIELD LABELED EVERY 6'-0". CONTRACTOR SHALL VERIFY GAS PRESSURE PRIOR TO INSTALLING ANY PIPING.
20. ALL LOW PRESSURE RECTANGULAR DUCTWORK SHALL BE GALVANIZED STEEL WITH DAMPERED SPIN-INS, ROUND DUCT, & FLEX DUCT RUNOUTS TO DIFFUSERS. DUCT FABRICATION SHALL CONFORM TO SMACNA STANDARDS.
21. ALL MEDIUM PRESSURE RECTANGULAR DUCTWORK SHALL BE GALVANIZED STEEL PROVIDE CONICAL TAKE-OFFS, SPIRAL ROUND DUCT, & MEDIUM PRESSURE FLEX DUCT TO VAV TERMINALS. DUCT FABRICATION SHALL CONFORM TO SMACNA STANDARDS.
22. ALL EXPOSED DUCTWORK SHALL BE GALVANIZED SHEET METAL, SEALED WITH PAINTABLE CLEAR ADHESIVE SEALANT OR MASKED OFF WITH TAPE FOR PROFESSIONAL CLEAN EDGE, AND HUNG WITH A SINGLE STRAP METHOD (I.E. STAINLESS STEEL CABLE APPROVED FOR DUCT INSTALLATION OR ALL-THREAD). ALL ROUND EXPOSED DUCTWORK SHALL BE SPIRAL. INSTALL IN STRICT ACCORDANCE WITH SMACNA STANDARDS. COORDINATE WITH ARCHITECT FOR PAINTED OR NON-PAINTED SPECIFICATION.
23. ALL EXTERIOR DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-12 INSULATION AND PROTECTED WITH 26 GA. SHEET METAL SKIN.
24. MAINTAIN AT LEAST 10'-0" CLEARANCE BETWEEN FRESH AIR INTAKES AND EXHAUST OUTLETS.
25. DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF "AS-BUILT" DRAWINGS AND FIELD OBSERVATION WHERE OBSERVATION WAS POSSIBLE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION OF OR INSTALLATION OF ANY MECHANICAL OR PLUMBING SYSTEMS.
26. CODES, RULES AND REGULATIONS: ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS, APPLICABLE TO THIS PROJECT:

2023 PIKES PEAK REGIONAL BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRIC CODE (NEC)
2021 INTERNATIONAL EXISTING BUILDING CODE
HEALTH DEPARTMENT RULES AND REGULATIONS
NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS

IN CASE OF CONFLICTS WITH CODE, DRAWINGS OR SPECIFICATION, THE MORE STRINGENT SHALL PREVAIL.

GENERAL GAS NOTES

1. PIPING IS AN ENGINEERED SYSTEM.
2. PIPING TO BE SUPPORTED EVERY 10' HORIZONTAL
3. SLEEVE ALL INCOMING AND EXITING PIPING WITH NEOPRENE INSULATING MATERIAL. SEAL ALL WALL AND SLAB PENETRATIONS EACH EXPOSED SIDE.
4. PROVIDE GAS COCK AND UNION ON BOTH SIDES OF ANY REQUIRED GAS REGULATORS.
5. PROVIDE FLEXIBLE CONNECTION AT EACH PIECE OF EQUIPMENT AND APPLIANCE. CONNECTION SIZE TO BE DETERMINED BY GAS INLET SIZE OF OF EQUIPMENT.
6. GAS PIPING TO BE SCHEDULE 40 STEEL BLACK PIPE AND MALLEABLE FITTINGS FOR ¼"-2" SIZES, WELD FITTINGS FOR LARGER SIZES. BALL VALVES FOR SHUT OFF, RATE FOR USE, OR GATE VALVES, RATED FOR USE, OR LUBRICATED PLUG VALVES, RATED FOR USE.
7. ALL PRESSURE REDUCING VALVES INSTALLED INDOORS ARE TO BE EQUIPPED WITH A VENT LIMITING DEVICE.

PIPING MATERIALS SCHEDULE

ALL PIPE AND FITTINGS LISTED ARE ONLY TO BE USED WHERE PERMITTED BY CODE.

NATURAL GAS, PUMPED AND WASTE OIL, COMPRESSED AIR	SCHEDULE 40 STEEL PIPE AND MALLEABLE FITTINGS FOR ½" - 2" SIZES, WELD FITTINGS FOR LARGER SIZES. BALL VALVES FOR SHUT OFF, RATE FOR USE, OR BUTTERFLY VALVES, RATED FOR USE, OR GATE VALVES, RATED FOR USE, OR LUBRICATED PLUG VALVES, RATED FOR USE.

2021 IECC COMPLIANCE

THE 2021 INTERNATIONAL ENERGY CODE (IECC) SHOULD BE FOLLOWED FOR THIS SET OF DOCUMENTS. THE FOLLOWING CODE SECTIONS ARE HIGHLIGHTED BUT DO NOT INCLUDE EVERYTHING NEEDED.

401 GENERAL REQUIREMENTS
402 BUILDING ENVELOPE REQUIREMENTS
403 BUILDING MECHANICAL SYSTEMS
403.1.1 CALCULATION OF HEATING AND COOLING LOADS
403.2.2 VENTILATION
403.2.3 FAULT DETECTION AND DIAGNOSTICS
403.3.1 EQUIPMENT SIZING
403.3.2 HVAC EQUIPMENT PERFORMANCE REQUIREMENTS
EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES 403.3.2(1) THROUGH 403.3.2(16).
403.4.1 THERMOSTATIC CONTROLS
403.4.2 OFF-HOUR CONTROLS
EACH ZONE SHALL BE PROVED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.
403.4.2.1 THERMOSTATIC SETBACK CAPABILITIES
THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C).
403.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN
AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP THE 2 HOURS; OR AN OCCUPANCY SENSOR.
403.4.3 HYDRONIC SYSTEMS CONTROL
403.5 ECONOMIZERS
ECONOMIZERS SHALL COMPLY WITH SECTIONS 403.5.1 THROUGH 403.5.5
403.6 REQUIREMENTS FOR MECHANICAL SYSTEMS SERVING MULTIPLE ZONES
SECTIONS 403.6.1 THROUGH 403.6.9 SHALL APPLY TO MECHANICAL SYSTEMS SERVING MULTIPLE ZONES.
403.7.1 DEMAND VENTILATION REQUIRED ON AREAS LARGER THAN 500 SF AND 15/1000 PEOPLE/SF.
403.7.4 ENERGY RECOVERY VENTILATION SYSTEMS
403.8.3 FAN EFFICIENCY
403.11 REFRIGERATION EQUIPMENT PERFORMANCE
403.12.1 DUCT AND PLENUM INSULATION AND SEALING
ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH NOT LESS THAN R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 0 THROUGH 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8. DUCTS LOCATED UNDERGROUND BENEATH BUILDINGS SHALL BE INSULATED AS REQUIRED IN THIS SECTION OR HAVE AN EQUIVALENT THERMAL DISTRIBUTION EFFICIENCY. UNDERGROUND DUCTS UTILIZING THE THERMAL DISTRIBUTION EFFICIENCY METHOD SHALL BE LISTED AND LABELED TO INDICATE THE R-VALUE EQUIVALENCY. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 0 THROUGH 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8.
403.12.3 PIPING INSULATION
406 ADDITIONAL EFFICIENCY REQUIREMENTS
407 TOTAL BUILDING PERFORMANCE
407.4.2.1 HVAC ZONES DESIGNED
407.5 CALCULATION SOFTWARE TOOLS
408 SYSTEM COMMISSIONING
408.2.1 MECHANICAL SYSTEMS AND SERVICE WATER-HEATING SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS
EXCEPTIONS:
TOTAL MECHANICAL CAPACITY < 480,000 BTUH OR 40 TONS
HEATING AND SERVICE WATER HEATING < 600,000 BTUH
408.2.2.1 AIR SYSTEMS BALANCING
EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE. DISCHARGE DAMPERS ARE PROHIBITED ON CONSTANT VOLUME FANS AND VARIABLE VOLUME FANS WITH MOTORS 10 HP AND LARGER. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES THEN, FOR FANS WITH SYSTEM POWER OF GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.
408.2.5.2 THE CONSTRUCTION DOCUMENTS SHALL REQUIRE AN OPERATING AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL CONTRACTOR. THE MANUAL SHALL INCLUDE, AT LEAST, THE FOLLOWING:
1. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIVITIES.
2. EQUIPMENT OPERATION AND MAINTENANCE MANUALS.
3. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
4. A COMPLETE WRITTEN NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

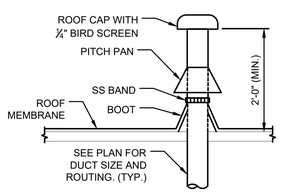
MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
20x12	EXISTING DUCTWORK
10"Ø	NEW DUCTWORK
G	LOW PRESSURE NATURAL GAS
MPG	MEDIUM PRESSURE NATURAL GAS
LPP	LOW PRESSURE PROPANE GAS
EPP	ELEVATED PRESSURE PROPANE GAS
	BALL VALVE
	GATE VALVE
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	PIPING UNION
	PIPING ELBOW DOWN
	PIPING ELBOW UP
	PIPING TEE DOWN
	PIPING TEE UP
	PIPE RISE OR DROP
	BRANCH TOP CONNECTION
	BRANCH BOTTOM CONNECTION
	PIPE CAP OR PLUG
	FIRE DAMPER
	FIRE/SMOKE DAMPER
T	THERMOSTAT
CO	CARBON MONOXIDE SENSOR
	CONNECT TO EXISTING
MVD	MECHANICAL VOLUME DAMPER

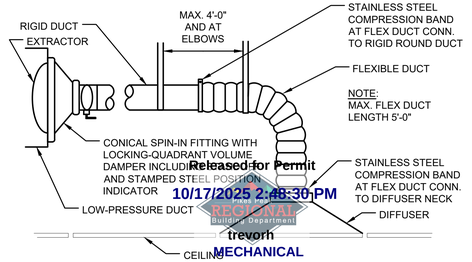
PIPING MATERIALS SCHEDULE

ALL PIPE AND FITTINGS LISTED ARE ONLY TO BE USED WHERE PERMITTED BY CODE.

NATURAL GAS, PUMPED AND WASTE OIL, COMPRESSED AIR	SCHEDULE 40 STEEL PIPE AND MALLEABLE FITTINGS FOR ½" - 2" SIZES, WELD FITTINGS FOR LARGER SIZES. BALL VALVES FOR SHUT OFF, RATE FOR USE, OR BUTTERFLY VALVES, RATED FOR USE, OR GATE VALVES, RATED FOR USE, OR LUBRICATED PLUG VALVES, RATED FOR USE.



2 M0.1 EXHAUST DUCT THROUGH ROOF
SCALE: NONE



1 M0.1 CEILING-MOUNTED DIFFUSER RUNOUT WITH FLEX DUCT
SCALE: NONE

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MECHANICAL

COLORADO REGISTERED PROFESSIONAL ENGINEER
10.16.2025

10.16.2025

McShea Consulting, LLC
MECHANICAL • ELECTRICAL • PLUMBING
4445 Northpark Dr. Suite 200
Colorado Springs, CO 80907
mcsheaconsulting.com
Project #: 22-6827

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115 S. Weber Colorado Springs, Colorado 719-475-8133

Revision Schedule

1	PERMIT SET	10.16.2025

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR.
SUITE 124
PEYTON, CO 80831

Project Number
22-6827

Date
10/16/2025

Drawn By
SH

Checked By
MRM

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ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	NOM. TONS	AIRFLOW ACFM	AIRFLOW DIRECTION	OA AIR CFM	EXT S.P. IN W.C.	COOLING			HEATING			ELECTRICAL					APPROX. WEIGHT LBS
								EAT DB/WB	TOTAL BTUH	SENSIBLE BTUH	FUEL SOURCE	INPUT BTUH	OUTPUT BTUH	VOLTAGE	PHASE	MOTOR HP	MCA AMPS	MOCP AMPS	
(E)RTU-5	CARRIER	48HC	5.0	2,000	DOWNFLOW	300	0.8	80.5/59.0	60,000	48,000	NAT GAS	108,000	86,400	208	3	1.0	31.0	45	619

NOTES (APPLICABLE TO ALL UNITS):

1) CONTRACTOR TO VERIFY EQUIPMENT IN APPROVED WORKING CONDITION. REPLACE ANY PARTS OR EQUIPMENT DEEMED NECESSARY.

EXHAUST AND VENTILATION FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DRIVE TYPE	PERFORMANCE			ELECTRICAL					APPROX. WEIGHT LBS	SERVES	ACCESSORIES					
					AIRFLOW ACFM	EXT S.P. IN W.C.	FAN SPEED RPM	VOLTAGE	PHASE	MOTOR HP/(W)	MCA AMPS	MOCP AMPS			1	2	3	4	5	6
EF-1	GREENHECK	SP-B50	CEILING MOUNT	DIRECT	60	0.10	580	120	1	(38)	1.0	15	9	RESTROOM		X			X	

ACCESSORIES:

1) FACTORY PROVIDED BACKDRAFT DAMPER.
2) FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
3) FACTORY PROVIDED GREASE DRAIN AND CUP.
4) FACTORY FURNISHED VIBRATION ISOLATORS.
5) FACTORY MOUNTED AND WIRED FAN SPEED CONTROLLER.
6) FACTORY FURNISHED 24" DISCHARGE EXTENSION.

NOTES:

1) COORDINATE INSTALLATION WITH OWNER'S CONSTRUCTION MANAGER AND WITH OTHER TRADES.
2) COORDINATE UNIT WITH STRUCTURE.
3) INSTALL ALL ACCESSORIES FURNISHED WITH THE UNIT PER THE MANUFACTURER'S INSTRUCTIONS.
4) ELECTRICALLY INTERLOCK FAN WITH SAME LOCATION LIGHT SWITCH.

OUTSIDE AIR SCHEDULE

SYSTEM	OCCUPANCY CLASSIFICATION	AREA IDENTITY	AREA (FT^2)	OCC.	OCCUPANT DENSITY (#/1000 FT^2)	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHER IN ZONE, R_p (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE, R_A (CFM/FT^2)	NUMBER OF FIXTURES	EXHAUST (CFM)	CFM OA SUBTOTAL	ZONE AIR EFF.	CFM OA REQUIRED
(E)RTU-5	Sports & amusement - Health club/weight room	OPEN GYM	911	10	10.0	20	0.06	0	0	255	0.8	318
(E)RTU-5	Offices - Office spaces	JAN.	55	1	5.0	5	0.06	0	0	8	0.8	10
(E)RTU-5	Public spaces - 50 Toilet rooms - public g	TOILET	40	0	0.0	0	0	0	0	0	0.8	0
(E)RTU-5	Public spaces - Corridors	CORRIDOR	85	0	0.0	0	0.06		0	5	0.8	6

NOTES:

Calculations are based upon 2021 IMC Table 403.3.1.1

SYSTEM CFM	SYSTEM OA %	OA REQUIRED	OA PROVIDED
2,000	30%	335	600

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	MODULE SIZE	FRAME TYPE	DAMPER	FINISH	NOTES						
								1	2	3	4	5	6	7
CD1	PRICE	SPD	PLAQUE DIFFUSER	24 X 24	LAY-IN	AT SPIN	WHITE			X			X	
CD2	PRICE	SPD	PLAQUE DIFFUSER	12 X 12	LAY-IN	AT SPIN	WHITE			X				
SR1	PRICE	510	ADJ. DOUBLE DEFLECTION	PER PLAN	SIDEWALL	INTEGRAL	STEEL							
RG1	PRICE	PT	PERFORATED GRILLE	12 X 24	LAY-IN	NONE	WHITE							

NOTES:

1) ALL GRILLES, REGISTERS AND DIFFUSERS EXPOSED TO THE PUBLIC SHALL BE BRUSHED ALUMINUM, UNLESS OTHERWISE NOTED. ALL GRILLES, REGISTERS AND DIFFUSERS IN KITCHEN AND COMAL SHALL BE WHITE.
2) PROVIDE PAINT GRIP PRIME COAT PAINT. FINISH PAINT COAT TO BE CHROME.
3) PROVIDE DIFFUSER WITH 4-WAY THROW PATTERN UNLESS OTHERWISE NOTED.
4) PROVIDE WITH OPPOSED BLADE DAMPER.
5) ALL GRILLES, REGISTERS AND DIFFUSERS TO HAVE A NOISE CRITERIA < 30 NC.
6) PROVIDE WITH RAPID MOUNT TRIM FRAME.
7) PROVIDE WITH SQUARE TO ROUND ADAPTOR WHERE SHOWN ON PLAN WITH ROUND DUCT CONNECTION.

AIR BALANCE SCHEDULE

	(E)RTU-5	EF-1	TOTALS
OUTSIDE AIR FLOW (CFM)	300	0	300
RETURN AIR FLOW (CFM)	1,700	0	1,700
SUPPLY AIR FLOW (CFM)	2,000	0	2,000
EXHAUST AIR FLOW (CFM)	0	60	60
BUILDING PRESSURE (CFM)	300	-60	240
SUPPLY - EXHAUST (CFM)	2,000	-60	1,940
REMARKS			
			240

NOTES:

1) ROOFTOP UNIT EQUIPPED WITH DEMAND CONTROL VENTILATION TO REDUCE OUTSIDE AIR QUANTITY.
2) EXHAUST AIRFLOW REPRESENTS ONLY THE EXHAUST ON THE CORRESPONDING FLOOR.

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PIKES PEAK REGIONAL Building Department

trevorh

MECHANICAL

COLORADO REGISTERED ROYAL M. HOZJAN 38178 PROFESSIONAL ENGINEER

10.16.2025

McShea Consulting, LLC
MECHANICAL • ELECTRICAL • PLUMBING
4445 Northpark Dr. Suite 200
Colorado Springs, CO 80907
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RETAIL BUILDING 'D'
11910 TOURMALINE DR.
SUITE 124
PEYTON, CO 80831

Project Number
22-6827

Date
10/16/2025

Drawn By
SH

Checked By
MRM

M0.2

MECHANICAL GENERAL NOTES:

A. INFORMATION ON EXISTING CONDITIONS ARE BASED ON AVAILABLE DRAWINGS FROM LOCAL BUILDING DEPARTMENTS AND ON SITE VERIFICATIONS WHERE POSSIBLE. CONTRACTOR TO COORDINATE WITH ALL EXISTING CONDITIONS.

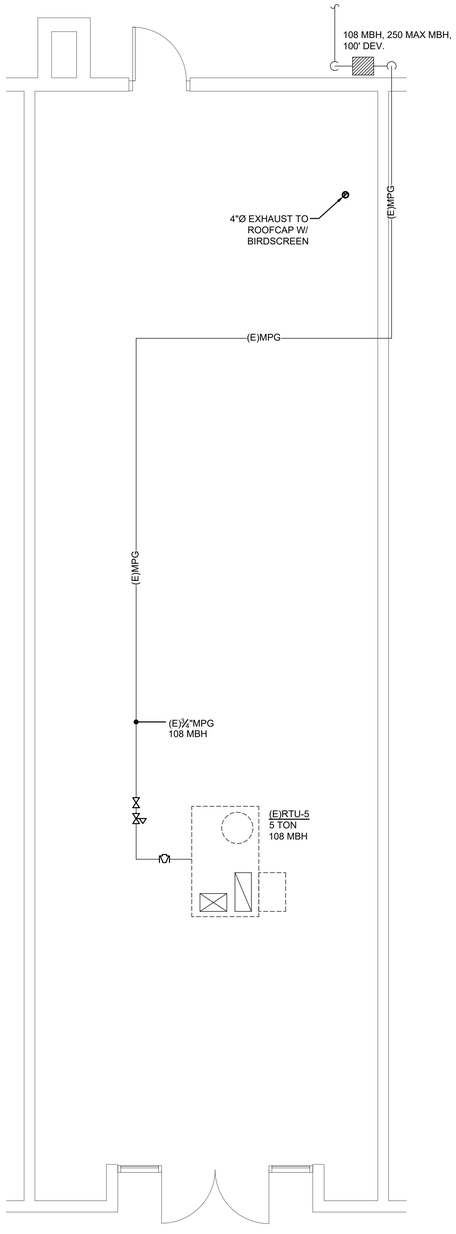
B. COORDINATE WITH ALL EXISTING STRUCTURE HEIGHTS, RIGID FRAMING, BEAMS, ETC.

C. COORDINATE WITH ALL EQUIPMENT REQUIREMENTS AND SPECIFICATIONS.

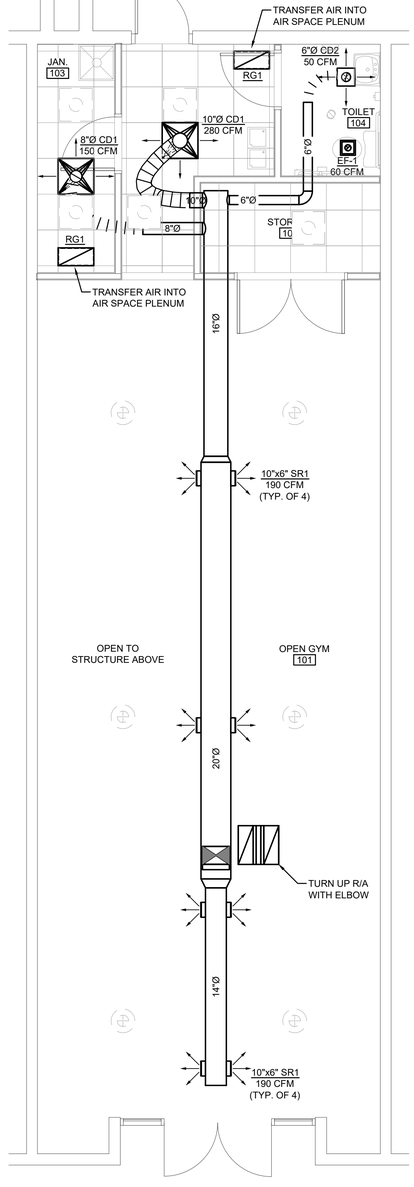
D. (E) DENOTES DEVICE IS EXISTING.

E. (R) DENOTES EXISTING DEVICE IS RELOCATED FROM WITHIN EXISTING SPACE.

F. DEMOLISH ALL SHOWN WITH: ////////



2 M1.1 MECHANICAL ROOF PLAN
SCALE: 1/4"=1'-0"



1 M1.1 MECHANICAL FLOOR PLAN
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YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

COLORADO REGISTERED PROFESSIONAL ENGINEER
NEIL ROYACK
No. 29878
10.16.2025

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Project #: 22-6827

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All Drawings, Reports, Plans, Specifications, Computer Files (including CAD files), field information, notes, sketches, and other design materials prepared by the Engineer and his/her consultants as instruments of service shall remain the property of the Engineer. The Engineer shall retain all common law, statutory and other reserved rights, including the Copyright thereto.

Revision Schedule

1	PERMIT SET	10.16.2025

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR.
SUITE 124
PEYTON, CO 80831

Project Number
22-6827

Date
10/16/2025

Drawn By
SH

Checked By
MRM

M1.1

ELECTRICAL SYMBOL LEGEND

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
$\square_X$	LIGHT FIXTURE, SEE LIGHT FIXTURE SCHEDULE FOR SIZE AND MOUNTING. CAPITAL LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH LEG.
$\square_X$	STRIP LIGHT FIXTURE, SEE LIGHT FIXTURE SCHEDULE FOR SIZE AND MOUNTING. CAPITAL LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH LEG.
$\square_X$	WALL BRACKET LIGHT FIXTURE, SEE LIGHT FIXTURE SCHEDULE FOR SIZE. CAPITAL LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH LEG.
$\square_X$ $\square_X$	WALL MTD. LIGHT FIXTURE, IE. WALL PACK, SCONCE, CYLINDER, ETC. CAPITAL LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH LEG.
O_X	CEILING MTD. LIGHT FIXTURE, IE. GLOBE, DOWNLIGHT, PENDANT, ETC. SEE LIGHT FIXTURE SCHEDULE FOR SIZE AND MOUNTING. CAPITAL LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH LEG.
A_X	SPOT LIGHT, CAPITAL LETTER DENOTES TYPE.
$\diamond_X$	BOLLARD, CAPITAL LETTER DENOTES TYPE.
O_X $\square_X$	POLE LIGHT, SEE LIGHT FIXTURE SCHEDULE AND DETAILS FOR POLE SPECIFICATION. CAPITAL LETTER DENOTES TYPE.
$\square_X$	TRACK HEAD, CAPITAL LETTER DENOTES TYPE.
	LIGHT FIXTURE WITH EM BALLAST, EM BALLAST TO PROVIDE 1000 LUMENS MINIMUM.
	EMERGENCY LIGHT FIXTURE, IE FROGEYE, ALL EMERGENCY LIGHTS TO HAVE 1HR MINIMUM BATTERY BACKUP.
	EXIT SIGN, ALL EXITS LIGHTS TO HAVE 1HR MINIMUM BATTERY BACKUP. SHADING INDICATES ILLUMINATED FACE, PROVIDE CHEVRONS AS INDICATED. MOUNT 7'6" TO BOTTOM OF FIXTURE ABOVE FINISHED FLOOR.
$	TOGGLE SWITCH, 20A, SINGLE POLE, VOLTAGE AS REQUIRED. MOUNT 48" AFF.
$3	3-WAY, TOGGLE SWITCH, 20A, SINGLE POLE, VOLTAGE AS REQUIRED. MOUNT 48" AFF.
$4	4-WAY, TOGGLE SWITCH, 20A, SINGLE POLE, VOLTAGE AS REQUIRED. MOUNT 48" AFF.
$D	ROCKER DIMMER WITH SIDE ADJUSTABLE SLIDE, SINGLE POLE SWITCH, 1000W, 120V, UNO., MOUNT 48" AFF.
$OC	DUAL TECH OCCUPANCY SENSOR, WALL MTD., 48" AFF. PROVIDE 0-10V DIMMING ADJUSTABLE SLIDE.
$L	LOW VOLTAGE SWITCH, WALL MTD., 48" AFF.
$T	TIME SWITCH, WALL MTD., 48" AFF.
OC	DUAL TECH OCCUPANCY SENSOR, CEILING MTD.
OC	DUAL TECH OCCUPANCY SENSOR, WALL MTD.
PC	PHOTOCELL SWITCH, MOUNT ON NORTH FACING EXTERIOR WALL, UNO.
D	DAYLIGHT SENSOR, MOUNT ON NORTH FACING EXTERIOR WALL, UNO.

POWER SYMBOLS

SYMBOL	DESCRIPTION
φ^X	DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO. MOUNT 18" AFF. SUBSCRIPT DENOTES TYPE. IE. IG=ISOLATED GROUND, GFI=GFCI, WP=WEATHERPROOF.
φ^X	DUPLEX RECEPTACLE SAME AS ABOVE BUT WITH (2)USB PORTS.
φ^X	QUAD RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO. MOUNT 18" AFF. SUBSCRIPT DENOTES TYPE. IE. IG=ISOLATED GROUND, GFI=GFCI, WP=WEATHERPROOF.
φ^C	SIMPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO. SUBSCRIPT 'C' DENOTES CLOCK RECEPTACLE, MOUNT AT HEIGHT DIRECTED BY ARCHITECT.
φ^X	SPECIAL RECEPTACLE, 220V, TYPE AS INDICATED OR MATCH EQUIPMENT CAP. MOUNT AT HEIGHT AS REQUIRED PER EQUIPMENT.
φ^X	DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO. WITH TIE-BAR REMOVED FOR SWITCHING. MOUNT 18" AFF.
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS INDICATED. MOUNT AT HEIGHT AS REQUIRED PER EQUIPMENT.
	PLUGMOLD, MULTI-OUTLET RACEWAY, RECEPTACLES SPACED 12" OC, UNO. MOUNT ABOVE COUNTER.
$M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
	FLOOR BOX, FLUSH MOUNTED PROVIDE DEVICE, BOX AND COVER AS SPECIFIED.
	4"X4" JUNCTION BOX, FLUSH/SURFACE MTD.
	POWER POLE WITH COMM AND POWER.
	MOTOR
$_{xxAnP}	NON FUSIBLE DISCONNECT SWITCH, RATING AS INDICATED. RATING AS INDICATED.
$_{xxAnP}	FUSIBLE DISCONNECT SWITCH, RATING AS INDICATED.
	SURFACE MTD. PANELBOARD/LOADCENTER.
	FLUSH MTD. PANELBOARD/LOADCENTER.

ABBREVIATIONS

SYMBOL	DESCRIPTION
UNO	UNLESS NOTED OTHERWISE.
OC	1" ABOVE BACKSPLASH. OVER COUNTER, MOUNT RECEPTACLE HORIZONTALLY,
UC	UNDER COUNTER, MOUNT RECEPTACLE HORIZONTALLY,
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EWC	ELECTRIC WATER COOLER
H	MOUNT DEVICE 6" AFF, HORIZONTALLY.
TP	TAMPER-PROOF
OHD	OVERHEAD DOOR
CLG	CEILING MOUNTED
D	DROP CORD

SPECIAL SYSTEMS SYMBOLS

SYMBOL	DESCRIPTION
	PUSHBUTTON OPERATOR.
S	CEILING MTD. SPEAKER
	WALL MTD. SPEAKER
	NURSE/EMERGENCY CALL BUTTON
	NURSE CALL LIGHT
	CCTV CAMERA LOCATION. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.
DB	PUSH BUTTON DOOR BELL
P	PANIC BUTTON. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.
I	INTERCOM. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.
KE	REMOTE RELEASE. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.
AK	ALARM CONTROL KEYPAD. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.
KP	ACCESS CONTROL KEYPAD. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.
AM	AMBUSH MONITOR. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT UP IN WALL WITH PULL STRING STUBBED 24" ABOVE CEILING.

COMMUNICATION SYSTEM SYMBOLS

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET. WIRING BY OTHERS, UNO. MOUNT 18" AFF.
^{W}	TELEPHONE OUTLET. WIRING BY OTHERS, UNO. WALL PHONE, MOUNT 48" AFF.
	DATA OUTLET. WIRING BY OTHERS, UNO. MOUNT 18" AFF.
	DATA/TELEPHONE OUTLET, WIRING BY OTHERS UNO. MOUNT 18" AFF.
	CATV OUTLET, WIRING BY OTHERS, UNO. MOUNT 18" AFF.

CIRCUITING SYSTEM SYMBOLS

SYMBOL	DESCRIPTION
	CIRCUIT RUN, #12W, 1/2" CONDUIT UNO.
	HOMERUN, #12W, 1/2" CONDUIT UNO., ARROWS INDICATE QUANTITY.
	CIRCUIT RUN, UNDER FLOOR OR GROUND, #12W, 1/2" CONDUIT UNO.
	BRANCH CIRCUIT WITH REQUIRED EQUIPMENT CONNECTION.
	BRANCH CIRCUIT BREAK

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
	HORN ONLY
	HORN AND STROBE
	STROBE ONLY
F	MANUAL PULL STATION
S	SMOKE DETECTOR
C	CO DETECTOR
H	HEAT DETECTOR
S	DUCT SMOKE DETECTOR
	MAGNETIC DOOR HOLD OPEN
	FIRE/ SMOKE DAMPER
FACP	FIRE ALARM CONTROL PANEL
ACC	ANNUNCIATION PANEL

ONE-LINE SYMBOLS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, FRAME AND TRIP AS INDICATED.
	POWER TRANSFORMER, RATING AS INDICATED.
	GROUND ELECTRODE
	CURRENT TRANSFORMER (CT)
	NON-FUSIBLE SWITCH, RATING AS INDICATED.
	FUSIBLE SWITCH, RATING AND FUSE SIZE AS INDICATED.
	FEEDER SCHEDULE KEY TAG
	UTILITY TRANSFORMER
	UTILITY ELECTRIC METER
	MOTOR WITH DISCONNECT
	MOTOR WITH CONTROLLER AND DISCONNECT
G	GENERATOR
	TRANSFER SWITCH
	WEATHERHEAD
	PANELBOARD OR LOADCENTER, IDENTIFICATION, AMPERES AND VOLTAGE.

NOTE: NOT ALL SYMBOLS ARE USED. VERIFY ALL CONNECTIONS AND RECEPTACLE TYPES FOR EQUIPMENT FROM APPROVED MECHANICAL AND EQUIPMENT SUBMITTALS PRIOR TO INSTALLATION.

GENERAL ELECTRICAL NOTES

1. GENERAL: THESE DRAWINGS REMAIN THE SOLE PROPERTY OF MCSHEA CONSULTING AND MAY BE USED ONLY FOR THE PROJECT AS INDICATED BY NAME AND LOCATION. ANY OTHER USE REQUIRES PRIOR, WRITTEN PERMISSION. THE CONTRACTOR WILL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, LICENSES, FEES, PERMITS, ETC. TO COMPLETE THE ELECTRICAL WORK DESCRIBED ON THE DRAWINGS. THE CONTRACTOR WILL WARRANT EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. WARRANTY SHALL INCLUDE REPLACEMENTS OR REPAIRS WITHOUT COST TO THE OWNER DURING THE WARRANTY PERIOD. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. USE OF DRAWINGS: DO NOT SCALE FROM THE ELECTRICAL DRAWINGS. FOR EXACT LOCATIONS USE ARCHITECT'S DIMENSIONED DRAWINGS, SHOP DRAWINGS AND FIELD MEASUREMENTS. VERIFY ALL LOCATIONS WITH THE ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN.
3. WIRING: ALL WIRING FOR LIGHTING AND POWER SYSTEMS WILL BE IN CONDUIT OR CABLE ASSEMBLIES APPROVED BY THE GOVERNING AUTHORITIES. CONDUCTOR SIZES SHOWN ARE BASED ON AMPACITIES FOR COPPER CONDUCTORS, UNLESS OTHERWISE NOTED. WHEN APPROVED BY ENGINEER, FEEDERS MAY BE ALUMINUM CONDUCTORS OF EQUIVALENT AMPACITIES. GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN ON THE DRAWINGS. PROVIDE BLOCKING AND OTHER NECESSARY SUPPORTS IN WALLS AND CEILINGS FOR MATERIAL AND EQUIPMENT TO BE PROVIDED. BRANCH CIRCUIT NUMBERS SHOWN ON THE DRAWINGS MAY BE REARRANGED WITHIN A GIVEN PANELBOARD TO SUIT THE NEEDS OF THE INSTALLATION. ELECTRICAL BRANCH CIRCUITS SHALL BE BALANCED BETWEEN LINES AND PHASES.
4. UTILITY COORDINATION: PROVIDE ALL COORDINATION WITH THE UTILITY INCLUDING LOAD DATA FORMS AND APPLICATION FOR SERVICE AS APPLICABLE. INSTALLATION OF SERVICE, PRIMARY OR SECONDARY FEEDERS AND METERING SHALL BE PERFORMED IN ACCORDANCE WITH THE UTILITIY REQUIREMENTS.
5. GROUNDING: PROVIDE A COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE NEC AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL BRANCH CIRCUITS SHALL INCLUDE A GROUND CONDUCTOR. USE OF RACEWAY FOR GROUNDING IS NOT PERMITTED. GALVANIZED GROUND RODS ARE NOT PERMITTED.
6. PANELBOARDS: PROVIDE MINIMUM INTEGRATED EQUIPMENT SHORT CIRCUIT RATING AS INDICATED ON PANEL SCHEDULES. PROVIDE BOLT-ON BREAKERS UNLESS OTHERWISE NOTED. PROVIDE CIRCUIT BREAKERS SHOWN ON THE PANELBOARD SCHEDULES. ALL TERMINATIONS AND LUGS SHALL BE RATED FOR 75-DEGREE CONDUCTORS.
7. PROVIDE TYPEWRITTEN CIRCUIT SCHEDULES TO IDENTIFY PANELBOARD AND EACH BRANCH BREAKER. ACCEPTABLE MANUFACTURERS ARE SQUARE D, SIEMENS AND EATON.
8. WIRING DEVICES: PROVIDE SPECIFICATION GRADE 15 AND 20- AMPERE SWITCH AND RECEPTACLE DEVICES, AS APPLICABLE. OTHER DEVICES SHALL BE PROVIDED AS INDICATED AND SHALL MATCH PLUG-CONNECTED EQUIPMENT FURNISHED FOR THE PROJECT. DEVICE WALL PLATES SHALL BE SMOOTH, NYLON TYPE AND SHALL BE OFFICE WHITE IN COLOR OR AS OTHERWISE SPECIFIED. DEVICE COLOR SHALL MATCH WALL PLATES.
9. DISCONNECT SWITCHES: HEAVY DUTY QUICK-MAKE, QUICK-BREAK TYPE, NON-FUSED UNLESS OTHERWISE NOTED. PROVIDE MEANS TO LOCK SWITCH IN OFF POSITION WITH PAD-LOCK. ENCLOSURES SHALL BE NEMA TYPE 1 OR NEMA TYPE 3R FOR OUTDOOR INSTALLATION. PROVIDE PERMANENT LABELS FOR DISCONNECTS TO INDICATE EQUIMENT SERVED.
10. LIGHTING FIXTURES: SEE LIGHT FIXTURE SCHEDULE. PROVIDE ALL FIXTURES WITH LAMPS AS INDICATED. WHERE REQUIRED, FIXTURES SHALL BE WET OR DAMP LOCATION LABELED. VERIFY MOUNTING HEIGHTS PRIOR TO ELECTRICAL ROUGH-IN.
11. ALTERNATES NOT ACCEPTABLE UNLESS NOTED AS "OR EQUAL" ON LIGHT FIXTURE SCHEDULE.
12. VOICE/DATA: RACEWAY SYSTEM BY CONTRACTOR. ALL RACEWAYS SHALL BE PROVIDED WITH PULLSTRINGS OF MINIMUM OF 400-LB. TEST STRENGTH. ALL EQUIPMENT, RECEPTACLES AND CABLING BY OTHERS. PROVIDE BLANK COVERS OVER ALL UNUSED OUTLETS. CABLES, DEVICES AND CABLE TERMINATION IS BY OTHERS.
13. ELECTRICAL CONTRACTOR TO VERIFY CONNECTION TYPE, POWER REQUIREMENTS, MOUNTING HEIGHTS, AND LOCATIONS OF ALL EQUIPMENT WITH TENANT PRIOR TO ROUGH IN. SEE MANUFACTURER'S INSTALLATION MANUALS FOR SPECIFIC DETAILS ON ALL EQUIPMENT.
14. (E) DENOTES DEVICE IS EXISTING. EXISTING DEVICES TO REMAIN ON EXISTING CIRCUIT AND/OR SWITCHES UNLESS SHOWN OTHERWISE.
15. (R) DENOTES DEVICE IS BEING RELOCATED FROM WITHIN EXISTING SPACE AND TO REMAIN ON EXISTING CIRCUIT AND/OR SWITCH UNLESS SHOWN OTHERWISE.
16. INFORMATION ON EXISTING CONDITIONS ARE BASED ON EXISTING PANEL DIRECTORIES, AVAILABLE DRAWINGS FROM LOCAL BUILDING DEPARTMENTS, AND ON SITE VERIFICATIONS WHERE POSSIBLE. ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION.
17. VERIFY THAT ALL EXISTING EQUIPMENT SCHEDULED TO BE REUSED IS IN GOOD WORKING CONDITION. REPAIR AND REPLACE AS NEEDED.
18. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
19. DEMOLITION PLANS SHOW GENERAL DEMOLITION WORK TO BE PERFORMED. NOT ALL EXISTING CONDITIONS SHOWN. CONTRACTOR TO PERFORM ALL NECESSARY DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE CONTRACT DOCUMENTS. COORDINATE WITH BUILDING OWNER PRIOR TO DISPOSAL OF ANY EXISTING EQUIPMENT.
20. ALL ABANDONED UTILITIES ARE TO HAVE CONDUITS, PIPING, OR WIRES REMOVED BACK TO SOURCE OR CAPPED OFF IN CONCEALED SPACES WHERE POSSIBLE.
21. VERIFY ALL EQUIPMENT REQUIREMENTS AND FINAL LOCATIONS WITH TENANT AND MANUFACTURER.
22. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO NEW/EXISTING STRUCTURAL ELEMENTS.
23. GFI PROTECTION (WHERE REQUIRED PER CODE) TO BE LOCATED ON FACEPLATE OF RECEPTACLE. IF FACEPLATE IS NOT EASILY ACCESSIBLE THEN PROVIDE GFI CIRCUIT BREAKER. GFCI DEVICES MAY NOT BE LOCATED ABOVE OR BEHIND APPLIANCES.
24. CONNECT EGRESS LIGHTING FIXTURES AND EXIT SIGNS TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCH PER NEC 700-12(F) INCLUDING ANY NIGHT LIGHTS. FIXTURES SHOWN SHADED OR LABELED ARE EMERGENCY EGRESS (EM) WITH BATTERY PACK, NIGHT LIGHT (N) OR BOTH (EM/N).
25. COORDINATE TELECOM, DATA, SECURITY, AND AV EQUIPMENT WITH TENANT AND EQUIPMENT PROVIDERS.
26. ALL DEDICATED CIRCUITS SHALL HAVE THEIR OWN SEPARATE HOT, NEUTRAL, AND GROUND WIRES. CONDUIT SHALL NOT BE USED AS A GROUND. NEUTRAL AND GROUNDS SHALL NOT BE SHARED.
27. MC CABLE ONLY ALLOWED IN CONCEALED AREAS THAT WILL NOT BE SUBJECTED TO DAMAGE. EXAMPLES ARE ABOVE CEILINGS AND WITHIN WALLS.
28. ELECTRICAL CONTRACTOR TO COORDINATE ALL LOW VOLTAGE, SPEAKER, AND VOLUME CONTROL WORK. SINGLE GANG PRE-CONSTRUCTION RING FOR EACH VOLUME CONTROL LOCATION WITH PULL STRING, CONDUIT STUB UP WHERE REQUIRED AT 48" FROM FINISHED FLOOR
29. CONTRACTOR TO REVIEW ENTIRE CONSTRUCTION DOCUMENT SET OF PROJECT TO COORDINATE ALL NECESSARY WORK. THIS INCLUDES MECHANICAL DRAWINGS FOR ALL SWITCHES, CONTROLS, AND INTERLOCKS.

2023 PIKES PEAK REGIONAL BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRIC CODE (NEC)
2021 INTERNATIONAL EXISTING BUILDING CODE
HEALTH DEPARTMENT RULES AND REGULATIONS
NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS

IN CASE OF CONFLICTS WITH CODE, DRAWINGS OR SPECIFICATION, THE MORE STRINGENT SHALL PREVAIL.

2021 IECC COMPLIANCE

THE 2021 INTERNATIONAL ENERGY CODE (IECC) SHALL BE FOLLOWED FOR THESE SET OF DOCUMENTS. THE FOLLOWING CODE SECTIONS ARE HIGHLIGHTED BUT DO NOT INCLUDE EVERYTHING REQUIRED.

405 ELECTRICAL POWER AND LIGHTING SYSTEMS

405.2.1.1 OCCUPANT SENSOR CONTROL FUNCTION

OCCUPANT SENSOR CONTROLS IN WAREHOUSES SHALL COMPLY WITH SECTION 405.2.1.2. OCCUPANT SENSOR CONTROLS IN OPEN PLAN OFFICE AREAS SHALL COMPLY WITH SECTION 405.2.1.3. OCCUPANT SENSOR CONTROLS IN CORRIDORS SHALL COMPLY WITH SECTION 405.2.1.4. OCCUPANT SENSOR CONTROLS FOR ALL OTHER SPACES SPECIFIED IN SECTION 405.2.1 SHALL COMPLY WITH THE FOLLOWING:

1. THEY SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
2. THEY SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN ON THE LIGHTING TO NOT MORE THAN 50% POWER.
3. THEY SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF LIGHTS.

405.2.2.1 TIME-SWITCH CONTROL FUNCTION
405.2.3.1 LIGHT-REDUCTION CONTROL FUNCTION
405.2.4.1 DAYLIGHT-RESPONSIVE CONTROL FUNCTION
405.2.5 SPECIFIC APPLICATION CONTROLS
405.2.7.4 EXTERIOR TIME-SWITCH CONTROL FUNCTION
405.2.8 PARKING GARAGE LIGHTING CONTROL
405.7 ELECTRICAL TRANSFORMERS:

ELECTRICAL TRANSFORMERS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLE 405.7 AS TESTED AND RATED IN ACCORDANCE WITH THE TEST PROCEDURES LISTED IN DOE 10 CFR 431.

405.8 ELECTRICAL MOTORS:

ELECTRICAL MOTORS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES 405.8(1) THROUGH 405.8(4) WHEN TESTED AND RATED IN ACCORDANCE WITH THE DOE 10 CFR 431.

405.11 AUTOMATIC RECEPTACLE CONTROL

THE FOLLOWING SHALL HAVE AUTOMATIC RECEPTACLE CONTROL COMPLYING WITH SECTION 405.11.1:

1. AT LEAST 50% OF ALL 125V, 15- AND 20-AMP RECEPTACLES INSTALLED IN ENCLOSED OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, CLASSROOMS AND INDIVIDUAL WORKSTATIONS, INCLUDING THOSE INSTALLED IN MODULAR FURNITURE NOT SHOWN ON THE CONSTRUCTION DOCUMENTS.
2. AT LEAST 25% OF BRANCH CIRCUIT FEEDERS INSTALLED FOR MODULAR FURNITURE NOT SHOWN ON THE CONSTRUCTION DOCUMENTS.

405.11.1 AUTOMATIC RECEPTACLE CONTROL FUNCTION

406 ADDITIONAL EFFICIENCY REQUIREMENTS

406.1 NEW BUILDINGS SHALL ACHIEVE A TOTAL OF 10 CREDITS FROM TABLES 406.1(1) THROUGH 406.1(5) WHERE THE TABLE IS SELECTED BASED ON THE USE GROUP OF THE BUILDING AND FROM CREDIT CALCULATIONS AS SPECIFIED IN RELEVANT SUBSECTIONS OF SECTION 406.

408 SYSTEM COMMISSIONING

408.2.1 COMMISSIONING PLAN REQUIRED
408.3.1 FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE *REGISTERED DESIGN PROFESSIONAL* OR *APPROVED AGENCY* SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE *CONSTRUCTION DOCUMENTS* AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE AND PER THE PROCEDURES WITHIN SECTIONS 408.3.1.1 AND 408.3.1.3 FOR THE APPLICABLE CONTROL TYPE.

408.3.2 THE *CONSTRUCTION DOCUMENTS* SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE *CERTIFICATE OF OCCUPANCY*.

WIRING NOTES

HOMERUNS AND BRANCH WIRING FOR 20 AMP CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOMERUN WIRE SIZE
1FT TO 50FT	NO.12 AWG	NO.12 AWG
51FT TO 75FT	NO.12 AWG	NO.10 AWG
76FT TO 120FT	NO.10 AWG	NO.8 AWG
121FT TO 190FT	NO.10 AWG	NO.6 AWG
191FT TO 300FT	NO.10 AWG	NO.4 AWG

FIRE ALARM WIRING:

1. FIRE ALARM INSTALLER TO COORDINATE WITH FIRE MARSHALL ON REQUIRED DOCUMENTATION NEEDED.
2. FIRE ALARM INSTALLER TO VERIFY LOCATION OF FIRE ALARM PANEL.
3. FIRE ALARM INSTALLER TO PROVIDE DUCT SMOKE DETECTORS FOR HVAC UNITS PER SECTION 606 OF THE INTERNATIONAL MECHANICAL CODE. REFER TO MECHANICAL RTU SCHEDULE FOR DETERMINATION OF UNITS TO RECEIVE SMOKE DETECTORS.

MOUNTING HEIGHT NOTES

MOUNTING HEIGHT OF ALL EXISTING AND NEW ELECTRICAL RECEPTACLES, SWITCHES AND CONTROLS SHALL COMPLY WITH ICC/ANSI A117.1-2017

- PER SECTION 308.2 FORWARD REACH.
  - UNOBSTRUCTED - MINIMUM OF 15 INCHES AND A MAXIMUM OF 48 INCH ABOVE FINISHED FLOOR.
  - OBSTRUCTED - WHERE OBSTRUCTION IS 20 INCHES MAX A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR. WHERE OBSTRUCTION EXCEEDS 20 INCHES A MAXIMUM OF 44 INCHES ABOVE FINISHED FLOOR.
- PER SECTION 308.3 SIDE REACH.
  - UNOBSTRUCTED - MINIMUM OF 15 INCHES AND A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR.
  - OBSTRUCTED - WHERE OBSTRUCTION HEIGHT IS 34 INCHES MAX AND DEPTH IS GREATER THAN 10 AND 24 INCHES MAX A MAXIMUM OF 46 INCHES ABOVE FINISHED FLOOR. WHERE OBSTRUCTION HEIGHT IS 34 INCHES MAX AND DEPTH IS 10 INCHES MAX A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR.

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mcsheaconsulting.com
Project #: 22-6827

OWNERSHIP OF INSTRUMENTS OF SERVICE

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Revision Schedule

1	PERMIT SET	10.16.2025

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR.
SUITE 124
PEYTON, CO 80831

Project Number
22-6827

Date
10/16/2025

Drawn By
SH

Checked By
MRM

E0.1

SHORT CIRCUIT SCHEDULE

MARK	DESCRIPTION	VOLTAGE	PHASE	AMPS	CONDUIT MATERIAL	FEEDER MATERIAL	FED FROM	NAME	XFMR TYPE	XFMR SIZE	MIN. Z%	SOURCE $I_{SC\,L\text{-}L}$	FEEDER LENGTH	$I_{SC\,L\text{-}L}$	AIC OR SCCR
TX	TRASFORMER	208	3	1200	METAL	ALUMINUM	XFMR		SERVICE	500	2.00	69,393	100	39,200	42k
DISC.	MAIN DISCONNECT	208	3	1200	METAL	ALUMINUM	XFMR	TX				39,200	65	30,558	35k
DISC. 2	200A DISCONNECT	208	3	200	METAL	ALUMINUM	MISC.	DISC.				30,558	10	25,256	35k
D	PANEL "D"	208	3	200	METAL	ALUMINUM	MISC.	DISC. 2				25,256	45	14,183	22k
(E)RTU-5	ROOF TOP UNIT	208	3	50	METAL	ALUMINUM	PANEL	D				14,183	55	2,633	5k

PANEL SCHEDULE

PANEL: D

VOLTS: 208Y/120V 3PH 4W **BUS RATING:** 200A

LOCATION: REAR RETAIL **AIC RATING:** 14,183 EXISTING **FEATURES:** COPPER BUS

MOUNTING: SURFACE

FED FROM: SERVICE

DESCRIPTION	**	BRKR	P	kVA	CKT	PH	CKT	kVA	P	BRKR	**	DESCRIPTION
PANEL RECEPT		20	1	0.18	1	A	2	0.80	1	20		LIGHTING
JAN 103 RECEPT		20	1	0.18	3	B	4	0.36	1	20		FRONT DOOR CEILING RECS
RESTROOM RECEPT		20	1	0.18	5	C	6		1	20		SPARE
HALLWAY RECEPTACLE		20	1	0.18	7	A	8		1	20		SPARE
EWC-1		20	1	1.00	9	B	10		1	20		SPARE
OPEN GYM 101 RECEPT		20	1	0.90	11	C	12		1	20		SPARE
OPEN GYM 101 RECEPT		20	1	0.90	13	A	14		1	20		SPARE
POS POWER		20	1	0.20	15	B	16		1	20		SPARE
FRONT SIGN		20	1	0.20	17	C	18		1	20		SPARE
REAR SIGN		20	1	0.20	19	A	20		1	20		SPARE
WATER HEATER (WH-1)		40	2	3.00	21	B	22		1	20		SPARE
				3.00	23	C	24		1	20		SPARE
					25	A	26		1	20		SPARE
					27	B	28		1	20		SPARE
					29	C	30		1	20		SPARE
					31	A	32		1	20		SPARE
					33	B	34		1	20		SPARE
					35	C	36	0.18	1	20		GFI/WP RECEPT
					37	A	38	3.72				
					39	B	40	3.72	3	45		ROOF TOP UNIT (E)RTU-5
					41	C	42	3.72				

LOAD SUMMARY

LOAD TYPE	KVA	FACTOR	DEMAND
LIGHTING	0.80	1.25	1.00
RECEPTACLES <= 10kVA	4.66	1.00	4.66
RECEPTACLES > 10kVA		0.50	
MOTORS		1.00	
LARGEST MOTOR	11.16	1.25	13.95
ELECTRIC HEAT		1.00	
KITCHEN			
MISCELLANEOUS	6.00		6.00
TOTAL LOAD KVA	**22.62**		**25.61**
AMPERES @ 208V	**63**		**71**

CONNECTED LOAD

PHASE A **5.98** kVA

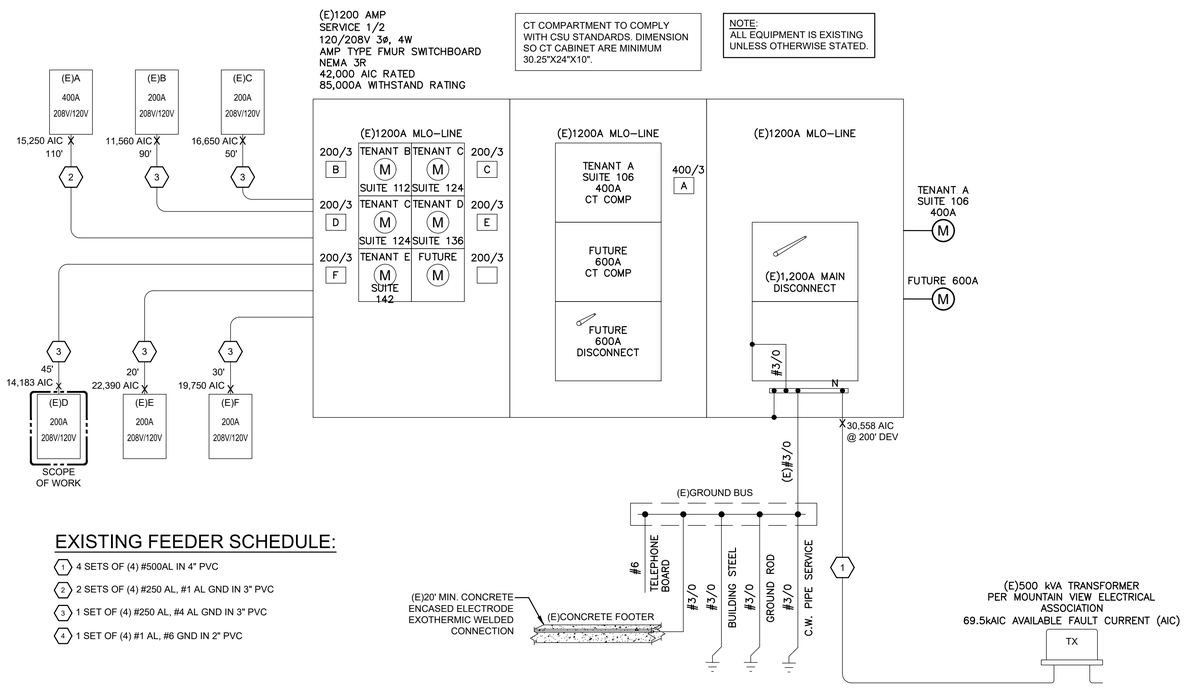
PHASE B **8.46** kVA

PHASE C **8.18** kVA

KEYED NOTES: E EXISTING, N NEW, S SHUNT TRIP, A AFCI, G GFCI

NOTES:

1) PROVIDE ACCURATE PANEL SCHEDULE ON SITE IN PANEL DOOR UPON PROJECT COMPLETION
2) COORDINATE WITH ALL EXISTING CONDITIONS.
3) COORDINATE WITH ALL EQUIPMENT SPECIFICATIONS AND REQUIREMENTS WITH TENANT AND MANUFACTURER

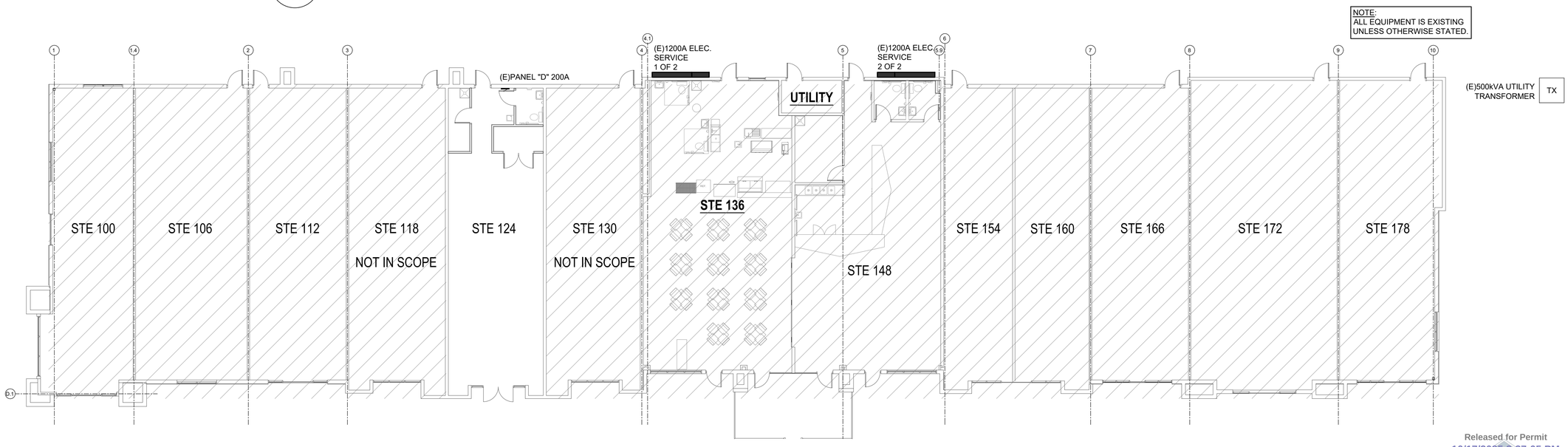


EXISTING FEEDER SCHEDULE:

1. 4 SETS OF (4) #500AL IN 4" PVC
2. 2 SETS OF (4) #250 AL, #1 AL GND IN 3" PVC
3. 1 SET OF (4) #250 AL, #4 AL GND IN 3" PVC
4. 1 SET OF (4) #1 AL, #6 GND IN 2" PVC

2 / E0.2 EXISTING ONE-LINE DIAGRAM

SCALE: NONE



1 / E0.2 ELECTRIC SITE PLAN

SCALE: 3/32"=1'-0"

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Pikes Peak Regional Building Department
Bertha
ELECTRICAL

YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

COLORADO REGISTERED PROFESSIONAL ENGINEER — 10.16.2025

McShea Consulting, LLC
MECHANICAL • ELECTRICAL • PLUMBING
4445 Northpark Dr. Suite 200
Colorado Springs, CO 80907
mcsheaconsulting.com
Project #: 22-6827

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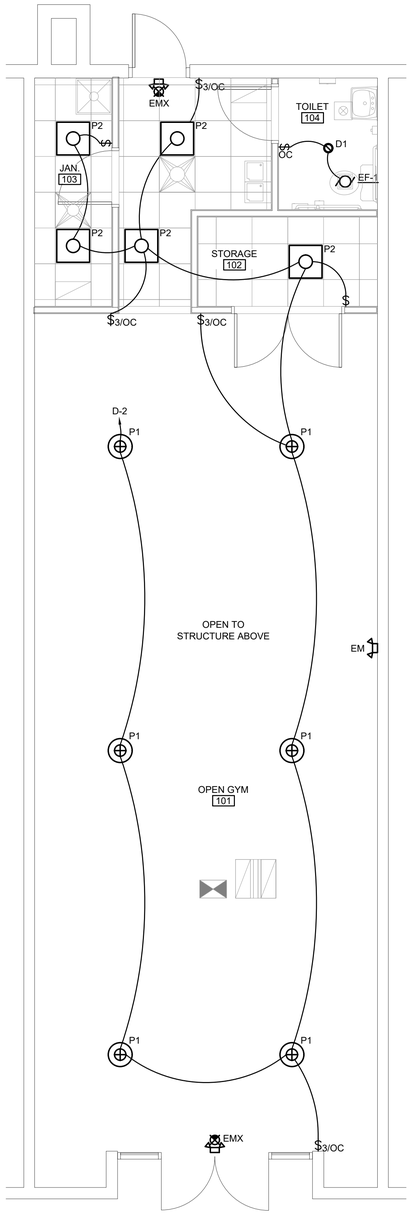
E0.2

LIGHT FIXTURE SCHEDULE

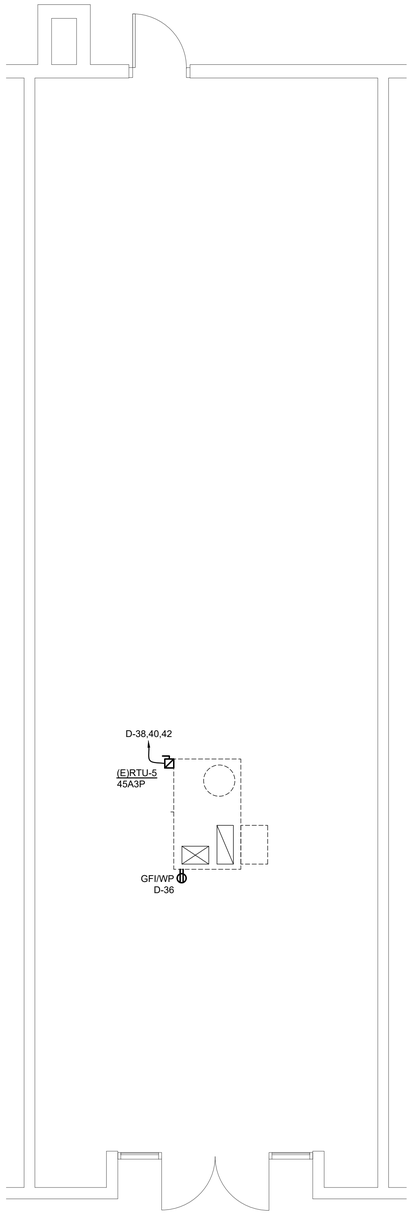
MARK	MANUFACTURER	MODEL	LAMPS PER FIXTURE QTY.	WATT	TYPE	MOUNTING	DESCRIPTION	VOLTAGE	TOTAL WATTS PER FIXTURE	NOTES
D1	LITHONIA	LDN6 27/25 L06AR LD	1	28	LED	RECESSED	6" LED DOWNLIGHT	120/277	28	5,6
P1	PATHWAY LIGHTING PRODUCTS	P91V8035K1 PAM AP	1	63	LED	SUSPENDED	16" DECORATIVE LED PENDANT	120/277	63	5,6
P2	LITHONIA	CPX 2X2 2000LM 80 30K A12 347	1	40	LED	RECESSED	2X2 LED PANEL	120/277	40	5,6
EM	LITHONIA	ELM2-SD			LED	UNIVERSAL	EMERGENCY LIGHT	120/277	2	1,5,6
EMX	LITHONIA	LHQM-SW-1G			LED	UNIVERSAL	EXIT/EMERG. COMBO	120/277	4	1,5,6

NOTES:

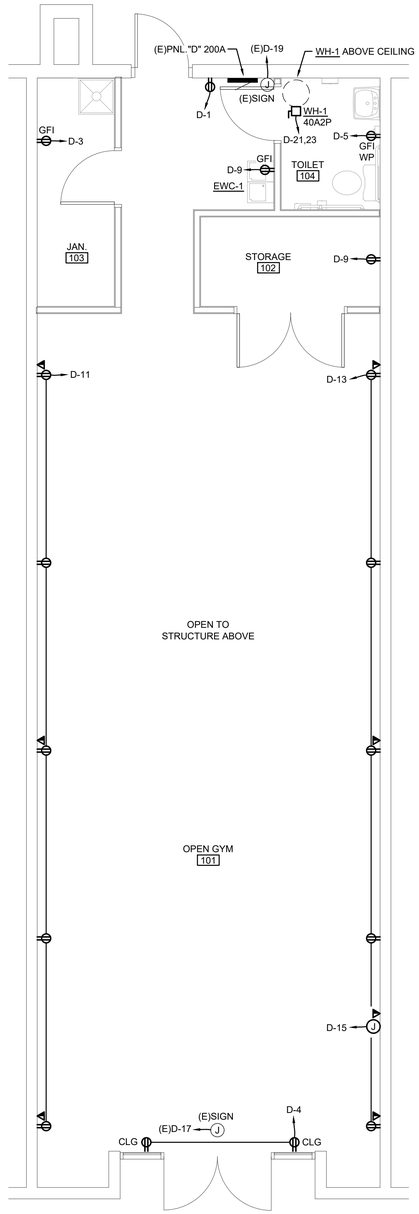
1) PROVIDE EMERGENCY BACKUP BATTERY.
2) FIXTURES DENOTED WITH "EM" INDICATE EMERGENCY BALLAST OR BATTERY PACK REQUIRED. EM BALLASTS SHALL PROVIDE 1000 LUMENS MINIMUM.
3) FIXTURES DENOTED WITH "N" INDICATE THEY ARE TO BE WIRED FOR NIGHT LIGHTING. SEE FLOOR PLAN FOR COORDINATION.
4) LUMINAIRES IN CONTACT WITH INSULATION SHALL BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDED WITH 3" MINIMUM CLEARANCE.
5) COORDINATE ALL CONTROLS WITH LIGHTING MANUFACTURER.
6) CONFIRM ALL LIGHT FIXTURE SELECTIONS WITH TENANT PRIOR TO ORDERING. THIS INCLUDES COLORS, COLOR TEMPERATURES, MANUFACTURER, ETC.



3 E1.1 LIGHTING PLAN
SCALE: 1/4"=1'-0"



2 E1.1 POWER ROOF PLAN
SCALE: 1/4"=1'-0"



1 E1.1 POWER FLOOR PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL GENERAL NOTES:

A. INFORMATION ON EXISTING CONDITIONS ARE BASED ON AVAILABLE DRAWINGS FROM LOCAL BUILDING DEPARTMENTS AND ON SITE VERIFICATIONS WHERE POSSIBLE. CONTRACTOR TO COORDINATE WITH ALL EXISTING CONDITIONS.

B. EXISTING POWER FIXTURES NOT SHOWN ON PLAN ARE TO REMAIN ON EXISTING CIRCUITS UNLESS OTHERWISE NOTED.

C. EXISTING SIGNAGE TO BE REMAINED ON HOUSE PANEL CONTACTOR CIRCUITS. REFER TO EXISTING DRAWINGS FOR DETAILS.

D. (E) DENOTES DEVICE IS EXISTING. EXISTING DEVICES TO REMAIN ON EXISTING CIRCUIT AND/OR SWITCHES UNLESS NOTED OTHERWISE.

E. (R) DENOTES EXISTING DEVICE IS RELOCATED FROM WITHIN EXISTING SPACE. RELOCATED DEVICES TO REMAIN ON EXISTING CIRCUIT UNLESS NOTED OTHERWISE.

F. DEMOLISH ALL ELECTRICAL POWER/LIGHTING FIXTURES SHOWN WITH: ////////,

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Bertha
ELECTRICAL

COLORADO REGISTERED STEVEN ROYAL HOFFMAN 40287 PROFESSIONAL ENGINEER
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MECHANICAL + ELECTRICAL + PLUMBING
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GENERAL PLUMBING NOTES

1. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
2. INFORMATION ON EXISTING CONDITIONS ARE BASED ON AVAILABLE DRAWINGS FROM LOCAL BUILDING DEPARTMENTS AND ON SITE VERIFICATIONS WHERE POSSIBLE. CONTRACTOR TO COORDINATE WITH ALL EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION.
3. DEMOLITION PLANS SHOW GENERAL DEMOLITION WORK TO BE PERFORMED. NOT ALL EXISTING CONDITIONS SHOWN. CONTRACTOR TO PERFORM ALL NECESSARY DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL INVERTS TO BE VERIFIED AND FIELD COORDINATED PRIOR TO PIPE/EQUIPMENT INSTALLATIONS.
5. COORDINATE WITH STRUCTURAL. COORDINATE ALL UNDERGROUND PIPING WITH BUILDING FOUNDATION AND FOOTERS.
6. ANY EXPOSED PIPING TO BE INSTALLED AS TIGHT AS POSSIBLE TO COLUMNS AND BEAMS.
7. COORDINATE ALL EQUIPMENT REQUIREMENTS WITH TENANT AND MANUFACTURER.
8. CONTRACTOR TO INSTALL ALL PIPING SLEEVE FOR ALL UTILITIES PENETRATING FLOOR OR CONCRETE WALL. COORDINATE IRRIGATION WITH LANDSCAPE DESIGNER (IF APPLICABLE.)
9. WATER PIPING ROUTED IN EXTERIOR STUD WALL SHALL BE ROUTED BETWEEN WALL INSULATION AND INTERIOR WALL SURFACE.
10. UNLESS OTHERWISE NOTED: ALL DCW & DHW LINES TO INDIVIDUAL FIXTURES & ITEMS ARE ½".
11. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
12. PROVIDE CLEANOUT AT ALL SINKS AND URINALS.
13. CLEANOUT REQUIRED ON ALL HORIZONTAL WASTE LINES OVER 50' IN LENGTH.
14. ALL DROPS SERVING MULTIPLE FIXTURES SHALL BE MINIMUM ¾".
15. PLUMBING CONTRACTOR TO VERIFY EXACT LOCATIONS OF EXISTING PIPING. INFORMATION ON EXISTING CONDITIONS ARE BASED ON AVAILABLE DRAWINGS FROM LOCAL BUILDING DEPARTMENTS AND ON SITE VERIFICATIONS WHERE POSSIBLE. CONTRACTOR TO COORDINATE WITH ALL EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION.
16. ALL PIPE SIZES, UNLESS OTHERWISE INDICATED, SHALL BE:

DOMESTIC COLD WATER "DCW"	3/4"
DOMESTIC HOT WATER "DHW"	3/4"
DOMESTIC HOT WATER RETURN "DHWR"	3/4"
VENT "V"	2"
WASTE "W"	4"

17. ALL ADA FIXTURES SHALL COMPLY WITH THE LATEST EDITION OF STANDARD ICC/ANSI A117.1.
18. ALL PIPING AND FITTING MATERIALS, AND METHODS AS APPROVED BY THE LOCAL BUILDING DEPARTMENT FOR WATER, WASTE, AND VENT ARE APPROVED FOR THIS PROJECT.
19. ALL MATERIALS WITHIN THE CEILING PLENUM SHALL BE RATED 25 FLAME AND 50 SMOKE MAXIMUM IN ACCORDANCE WITH SECTION 602.2.1 OF THE 2015 INTERNATIONAL MECHANICAL CODE.
20. NO PLASTIC PIPE PERMITTED IN THE CEILING RETURN AIR CAVITY.
21. SECURE PERMIT FOR MEDIUM PRESSURE GAS FROM UTILITY DEPARTMENT. MEDIUM PRESSURE GAS PIPE TO BE FIELD LABELED EVERY 6'-0". CONTRACTOR SHALL VERIFY GAS PRESSURE PRIOR TO INSTALLING ANY PIPING.
22. CODES, RULES AND REGULATIONS: ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS, APPLICABLE TO THIS PROJECT:

2023 PIKES PEAK REGIONAL BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRIC CODE (NEC)
2021 INTERNATIONAL EXISTING BUILDING CODE
HEALTH DEPARTMENT RULES AND REGULATIONS
NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS

IN CASE OF CONFLICTS WITH CODE, DRAWINGS OR SPECIFICATION, THE MORE STRINGENT SHALL PREVAIL.

2021 IECC COMPLIANCE

THE 2021 INTERNATIONAL ENERGY CODE (IECC) SHOULD BE FOLLOWED FOR THIS SET OF DOCUMENTS. THE FOLLOWING CODE SECTIONS ARE HIGHLIGHTED BUT DO NOT INCLUDE EVERYTHING NEEDED.

401 GENERAL REQUIREMENTS

404 SERVICE WATER HEATING

404.6.1 CIRCULATION SYSTEMS

HEATED-WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE. GRAVITY AND THERMO-SYPHON CIRCULATION SYSTEMS SHALL BE PROHIBITED. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT A DEMAND FOR HOT WATER. THE CONTROLS SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD WATER PIPING TO NOT GREATER THAN 104°F (40°C).

404.6.2 HEAT TRACE SYSTEMS

ELECTRIC HEAT TRACE SYSTEMS SHALL COMPLY WITH IEEE 515.1. CONTROLS FOR SUCH SYSTEMS SHALL BE ABLE TO AUTOMATICALLY ADJUST THE ENERGY INPUT TO THE HEAT TRACING TO MAINTAIN THE DESIRED WATER TEMPERATURE IN THE PIPING IN ACCORDANCE WITH THE TIMES WHEN HEATED WATER IS USED IN THE OCCUPANCY. HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF AUTOMATICALLY WHEN THERE IS NOT A DEMAND FOR HOT WATER.

404.6.3 CONTROLS FOR HOT WATER STORAGE

THE CONTROLS ON PUMPS THAT CIRCULATE WATER BETWEEN A WATER HEATER AND A HEATED-WATER STORAGE TANK SHALL LIMIT OPERATION OF THE PUMP FROM HEATING CYCLE STARTUP TO NOT GREATER THAN 5 MINUTES AFTER THE END OF THE CYCLE.

408 SYSTEM COMMISSIONING

408.2.5 DOCUMENTATION REQUIREMENTS

A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION 408.2.5 OF THE 2021 IECC.

PLUMBING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
————	SANITARY SEWER "W"
- - - - - -	SANITARY VENT "V"
————	DOMESTIC COLD WATER "DCW"
————	DOMESTIC HOT WATER "DHW"
————	DOMESTIC HOT WATER "DHWR"
———— CA ————	COMPRESSED AIR PIPING "CA", TYPE "L" OR "K" CU
———— VAC ————	VACUUM PIPING "VAC", SCH. 40 PVC
C.O.	CLEANOUT
W.C.O.	WALL CLEANOUT
F.C.O.	FLOOR CLEANOUT
VTR	VENT THRU ROOF
A.F.F.	ABOVE FINISHED FLOOR
(E)	EXISTING
	CONNECT TO EXISTING

PLUMBING MATERIALS SCHEDULE

ALL PIPE AND FITTINGS LISTED ARE ONLY TO BE USED WHERE PERMITTED BY CODE.

SANITARY WASTE	PVC SCH 40 PIPE AND DWV FITTINGS OR CAST IRON WHEN CEILING PLENUM IS USED AS A RETURN AIR PATH
VENT	PVC SCH 40 PIPE. CAST IRON WHEN CEILING PLENUM IS USED AS RETURN AIR PATH
DOMESTIC WATER	TYPE L OR TYPE M COPPER PIPE AND FITTINGS, SOLDER, PEX OR SOFT COPPER PIPE
CONTROL	BALL VALVES FOR SHUT OFF AND FLOW
INSULATION DHW & DHWR	ALL HOT WATER PIPING TO BE INSULATED PER 2021 IECC SECTION 404.4

NOTE TO INSTALLERS: SEE STATE PLUMBING AMENDMENTS TO SECTION 705.10.2 SOLVENT CEMENTING. EXCEPTION REMOVED. PURPLE PRIMER REQUIRED IN THIS JURISDICTION.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DESCRIPTION	ADA	TMV	MANUFACTURER	MODEL	MINIMUM PIPE SIZES (INCHES)			
							WASTE	VENT	DCW	DHW
FCO	FLOOR CLEANOUT	ADJUSTABLE ROUND NICKEL-BRONZE FLOOR CLEAN OUT WITH SCH 40 HUB CONNECTION AND SLOTTED CLEANOUT PLUG.			SIOUX CHIEF	852-4PNRS	PLAN	-	-	-
2"FD	FLOOR DRAIN	SQUARE CAST IRON BODY, NICKEL-BRONZE STRAINER. PROVIDE CAST IRON P-TRAP. PROVIDE TRAP GUARD EQUAL TO PROSET.			JAY R. SMITH	2010	2	1-1/2	-	-
LV1	LAVATORY	RECTANGULAR ALMOND VITREOUS CHINA, WALL HUNG LAVATORY, 4" CENTER HOLES W/ DELTA MODEL 505 SINGLE HANDLE LEVER FAUCET, VANDAL RESISTANT AERATOR. PROVIDE OPEN GRID STRAINER W/ OFFSET TAILPIECE, CAST BRASS "P" TRAP, TRAP ARM & 3/8" FLEX. SUPPLIES WITH STOPS. SECURE ROUGH-INS TO WALL STRUCTURE. INSULATE EXPOSED DRAIN AND HOT WATER PIPING W/ BROCAR OR EQUAL.	X	X	KOHLER	K-2005-47	1-1/2	1-1/2	1/2	1/2
MSB	MOP SINK BASIN	FLOOR OUTLET, 24"x24"x10" MOLDED STONE WITH SHELF, COMBINATION DOME STRAINER AND LINT BASKET. DRAIN WITH STAINER AND SOCKET FOR 3" OUTLET, CAULK CONNECTION. FAUCET WITH BUCKET HOOK, HOSE END, VACUUM BREAKER, TOP BRACE AND STOPS IN SHANK.			FIAT, CHICAGO	MSB-2424, 782-VB	3	2	3/4	3/4
SC1	SILL COCK	CHROME PLATED BRASS, SURFACE MOUNTED, SELF DRAINING, FREEZE PROOF W/ VACUUM BREAKER, 3/4" HOSE AND REMOVABLE TEE KEY HANDLE. PROVIDE SHUT-OFF VALVE.			WOODFORD	W65C12	-	-	3/4	-
WC1	WATER CLOSET	CIMARRON, FLOOR MOUNTED, FLUSH TANK TYPE TOILET. 1.6 GPF, ALMOND VITREOUS CHINA WITH ELONGATED BOWL. PROVIDE OPEN FRONT SEAT LESS COVER. BOLT COVERS AND ANGLE SUPPLY WITH STOP. SEAT HEIGHT BETWEEN 17" AND 19" A.F.F.	X		KOHLER	K-5310-0	3	2	1/2	-
WH-1	WATER HEATER	15 GALLON, 208V, SINGLE PHASE, 6000W INPUT, 25 GPH RISE @ 100°F.			BRADFORD WHITE	LE115U3-1	-	-	3/4	3/4
CP-1	RE-CIRCULATING PUMP	CAST IRON OR STAINLESS RECIRCULATING DOMESTIC HOT WATER PUMP, 1/6 HP, 115V/1 PHASE. PROVIDE TC-1 AUTOMATIC TIMER KIT AND AQS AQUASTAT.			BELL & GOSSETT	ECOCIRC XL 36-45	-	-	-	3/4
ET-1	EXPANSION TANK	6.4 GALLONS TOTAL VOLUME. RATED FOR USE IN DOMESTIC WATER SYSTEMS. THE UNIT IS TO BE INDEPENDENTLY SUPPORTED. SUPPORT FROM ANY PIPING SYSTEM IS NOT ACCEPTABLE.			AMTROL	ST-12C	-	-	3/4	-
EWC-1	ELECTRIC WATER COOLER	SELF-CONTAINED, VERSATILE BI-LEVEL WALL MOUNTED ELECTRIC FILTERED WATER COOLER WITH EASY-TOUCH PUSHBAR ACTIVATION.	X		ELKAY	LZSTLVR8*C	1-1/4	1-1/4	1/2	-

NOTES:

1) ALL PLUMBING FIXTURES TO BE LISTED AND ACCESSIBLE. MAXIMUM WATER TEMPERATURE AT ALL HAND WASHING SINKS TO BE CONTROLLED VIA TMV SET AT 110°F.
2) CONFIRM ALL FIXTURES MAKE/MODEL NUMBERS WITH TENANT.
3) COORDINATE WITH ARCHITECTURAL EQUIPMENT LIST AND EQUIPMENT SCHEDULES ON OTHER MEP SHEETS.
4) VERIFY AND COORDINATE ALL EQUIPMENT SPECIFICATIONS OR TENANT PROVIDED EQUIPMENT.
5) FIXTURES LISTED ABOVE ARE GENERAL EXAMPLES AND ALLOWED TO BE REPLACED CONSIDERING PIPING SPECIFICATIONS ARE MET.

INSULATION SCHEDULE

PIPE SIZE	FLUID OPERATING TEMPERATURE RANGE AND USAGE (F)	INSULATION CONDUCTIVITY		THICKNESS (IN)	INSULATION TYPE
		CONDUCTIVITY BTU X IN/(H X SFT X F)	MEAN RATING TEMP F		
< 1"	40-60	0.21-0.27	75	0.5	1
< 1"	105-140	0.21-0.28	100	1	1 OR 2

INSULATION TYPE:

1) SYNTHETIC RUBBER/FOAM INSULATION (MANUFACTURER SELECTED BY CONTRACTOR OWENS CORNING OR EQUAL)
2) GLASSWOOL INSULATION (MANUFACTURER SELECTED BY CONTRACTOR OWENS CORNING OR EQUAL)

COMPLY WITH IECC C404.4

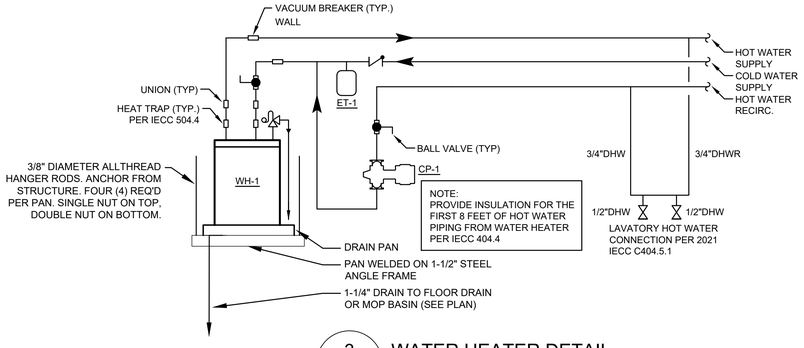
WATER PIPE SIZE ANALYSIS

PRESSURE CALCULATIONS	
DEVELOPED LENGTH	30 FT
120% DEVELOPED LENGTH (FITTINGS)	36 FT
ELEVATION OF HIGHEST FIXTURE	4.0 FT
PRESSURE AVAILABLE @ METER	60 PSI
TOTAL HEAD LOSS	1.7 PSI
MINIMUM PRESSURE TO BE MAINTAINED	5.0 PSI
METER LOSS (CHART A-1)	7.5 PSI
BACKFLOW PREVENTER LOSS	13.0 PSI
TOTAL AVAILABLE PRESSURE @ FURTHEST FIXTURE	32.8 PSI
PRESSURE AVAILABLE PER 100 FT OF PIPE	91.1 PSI

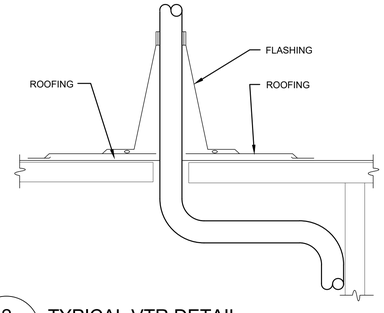
FIXTURE COUNTS			
FIXTURE	QUANTITY	SFU	DFU
NEW			
LAVATORY - PUBLIC	1	2	1
DRINKING FOUNTAIN - OFFICES, ETC.	1	0.25	0.5
WATER CLOSET - PUBLIC - FLUSH TANK	1	5	4
SERVICE SINK - OFFICES, ETC.	1	3	2
	TOTAL:	10.25	7.5
	TOTAL GPM:	14.80	

EXISTING METER SIZE (INCHES):	3/4
DISTRIBUTION SIZE (INCHES):	1
EXISTING WASTE SIZE (INCHES):	4

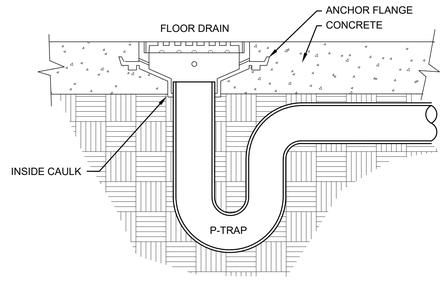
Water Supply Load Values - 2021 IPC table E103.3(2)
Table for Estimating Demand - 2021 IPC Table E103.3(3)
Water Meters, Mains & Distribution Piping - 2021 IPC Table E201.1



3 P0.1 WATER HEATER DETAIL
SCALE: NONE



2 P0.1 TYPICAL VTR DETAIL
SCALE: NONE



CAST IN CONCRETE, TYPICAL FOR FLOOR SINKS, CLEANOUTS AND TRENCH DRAINS.

1 P0.1 FLOOR DRAIN DETAIL
SCALE: NONE

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YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

COLORADO REGISTERED PROFESSIONAL ENGINEER
SHANEN ROYACK
No. 52078
PROFESSIONAL ENGINEER

10.16.2025

McShea Consulting, LLC
MECHANICAL • ELECTRICAL • PLUMBING
4445 Northpark Dr. Suite 200
Colorado Springs, CO 80907
mcsheaconsulting.com
Project #: 22-6827

OWNERSHIP OF INSTRUMENTS OF SERVICE

All Drawings, Reports, Plans, Specifications, Computer Files (including CAD files), field information, notes, sketches, and other design materials prepared by the Engineer and his/her consultants as instruments of service shall remain the property of the Engineer. The Engineer shall retain all common law, statutory and other reserved rights, including the Copyright thereto.

Revision Schedule

1	PERMIT SET	10.16.2025

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR.
SUITE 124
PEYTON, CO 80831

Project Number
22-6827

Date
10/16/2025

Drawn By
SH

Checked By
MRM

P0.1

PLUMBING GENERAL NOTES:

A. INFORMATION ON EXISTING CONDITIONS ARE BASED ON AVAILABLE DRAWINGS FROM LOCAL BUILDING DEPARTMENTS AND ON SITE VERIFICATIONS WHERE POSSIBLE. CONTRACTOR TO COORDINATE WITH ALL EXISTING CONDITIONS.

B. COORDINATE WITH EXISTING STRUCTURAL. ANY EXPOSED PIPING TO BE INSTALLED AS TIGHT AS POSSIBLE TO COLUMNS AND BEAMS.

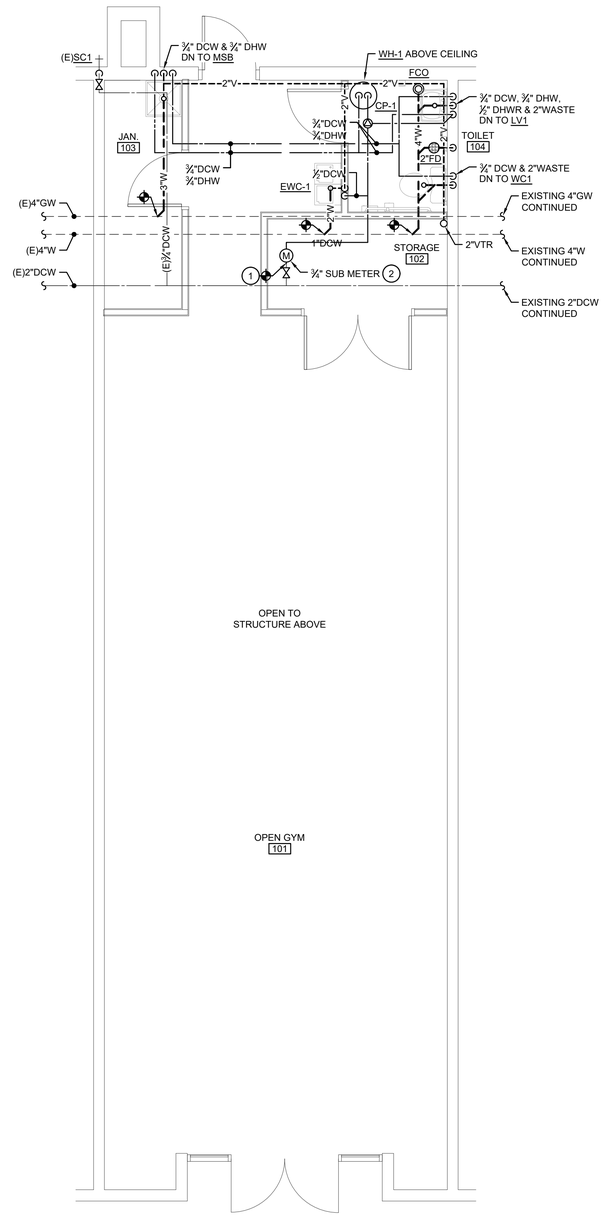
C. ALL INVERTS TO BE VERIFIED AND FIELD COORDINATED PRIOR TO PIPE/EQUIPMENT INSTALLATIONS.

D. COORDINATE EQUIPMENT REQUIREMENTS WITH TENANT AND MANUFACTURER.

E. (E) DENOTES DEVICE IS EXISTING.

PLUMBING KEYED NOTES:

1. CONNECT ¾"DCW TO EXISTING ¾"DCW
2. ¾" SUB METER TO BE COORDINATED WITH OWNER.



1 / P1.1 PLUMBING PLAN

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

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Pikes Peak Regional Building Department
shanen
PLUMBING

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Pikes Peak Regional Building Department
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PLUMBING

COLORADO REGISTERED ROYAL A. NOZAKI 37.1 PROFESSIONAL ENGINEER

10.16.2025

McShea Consulting, LLC
MECHANICAL + ELECTRICAL + PLUMBING
4445 Northpark Dr. Suite 200
Colorado Springs, CO 80907
mcsheaconsulting.com
Project #: 22-6827

OWNERSHIP OF INSTRUMENTS OF SERVICE

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YOW Architects PC
Architecture & Planning
115 S. Weber Colorado Springs, Colorado 719-475-8133

Revision Schedule

1	PERMIT SET	10.16.2025

KID'S PLAY PLACE
RETAIL BUILDING 'D'
11910 TOURMALINE DR.
SUITE 124
PEYTON, CO 80831

Project Number
22-6827

Date
10/16/2025

Drawn By
SH

Checked By
MRM

P1.1

Pikes Peak REGIONAL Building Department

INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
COMMERCIAL INSULATION CERTIFICATE

This certificate is based on the 2021 International Energy Conservation Code (IECC), **as amended** by the 2023 Pikes Peak Regional Building Code. This certificate is applicable all buildings that are not considered Residential Buildings per the 2021 IECC. **This certificate is NOT applicable to One- and Two- family Dwellings as well as Townhouses, R2, R-3 and R-4 buildings three stories or less in height (*use Residential Insulation Certificate)*.** *This certificate is required to be submitted as part of the plan review package*.

ADDRESS: 11910 Tourmaline Dr, 124, Peyton, CO, 80831

ADDITIONAL ENERGY EFFICIENCY OPTION (MUST HAVE 5 CREDITS OR 2 CREDITS FOR TENANT SPACES)**

- [ ] More efficient HVAC performance (IECC C406.2)
- [x] Reduced lighting power (IECC C406.3)
- [ ] Enhanced digital lighting controls (IECC C406.4)
- [ ] On-site renewable energy (IECC C406.5)
- [ ] Dedicated outdoor air system (for HVAC equipment) (IECC C406.6)
- [ ] Reduced energy use in service water heating (IECC C406.7)
- [ ] Enhanced envelope performance (IECC C406.8)
- [ ] Reduced air infiltration (IECC C406.9)
- [ ] Energy monitoring system (IECC C406.10)
- [ ] Fault detection and diagnosis (FDD) system (IECC C406.11)
- [ ] Efficient kitchen equipment (IECC C406.12)
- [ ] Compliance with ASHRAE 90.1 (IECC C401.2.2)

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Dougc
CONSTRUCTION

** For interior finish permits, only the energy efficiency option section needs to be filled out for the space being finished.

TOTAL ALLOWED WATTS = 875
TOTAL PROPOSED WATTS = 606
31% REDUCTION

STATE OF COLORADO
Jonathan Ross Whittaker
402778
LICENSED ARCHITECT

COLORADO LICENSED DESIGN PROFESSIONAL STAMP

THIS DOCUMENT MUST BE STAMPED BY THE DESIGN PROFESSIONAL OF RECORD

METHOD OF ENERGY CODE COMPLIANCE:

The IECC provides various options for compliance with minimum standards. Check the box to indicate the method of compliance and proceed page 2 to summarize the thermal envelope component values. If additional documentation is required, it must accompany this form.

- ☐ ASHRAE 90.1[1,3] (C401.2.2)
- ☐ Insulation Component R-value Based Method (C402.1.3)
- ☐ Assembly U-, C-, or F-factor Based Method (C402.1.4)
- ☐ Component Performance Alternative[1] (C402.1.5)
- ☐ COMCheck[1] (C402.1.5 or C401.2.2)
- ☐ Total Building Performance [2,3] (C407)

[1]Please attach documentation and calculations to substantiate compliance.
[2]Please attach summary of compliance. Complete third party documentation of compliance must be submitted at time of final inspection
[3]Available only to design professionals licensed in the State of Colorado or by qualified persons as approved by the Building Official

FENESTRATION

_____U-Factor of Skylights (Maximum of 3% of roof area)

_____U-Factor of fixed fenestrations (maximum of 30% of gross above grade wall area)

_____U-Factor of operable fenestrations (maximum of 30% of gross above grade wall area)

_____U-Factor of entrance doors (maximum of 30% of gross above grade wall area)

_____U- Factor of opaque doors (less than 50% glazing)

_____U-Factor of nonswinging opaque doors

ROOF ASSEMBLY

R-value of insulation above deck

_____ cavity*_____ continuous*

R-value of attic or other assembly

_____ cavity*_____ continuous*

R-value of metal building

_____ cavity*_____ continuous*

FLOOR ASSEMBLY

R-value of mass floors

_____ cavity*_____ continuous*

R-value of joist/framed floors

_____ cavity*_____ continuous*

_____ R-value of unheated slab for 24” below grade

_____ R-value of heated slab for 36” below grade

WALL ASSEMBLY

R-value of mass wall

_____ cavity*_____ continuous*

R-value of metal building walls

_____ cavity*_____ continuous*

R-value of metal framed walls

_____ cavity*_____ continuous*

R-value of wood framed/other walls

_____ cavity*_____ continuous*

R-value of below grade walls

_____ cavity*_____ continuous*

* “cavity” insulation is installed between framing members and “continuous” or “linear system” is installed over structure. Can be a combination of both.

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

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Pikes Peak REGIONAL Building Department
Bertha
ELECTRICAL

Project Information

Energy Code: 2021 IECC
Project Title: Kid's Play Place
Project Type: New Construction

Construction Site:
11910 Tourmaline Dr,
Colorado Springs, Colorado 80831

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Corridor (Common Space Types:Corridor/Transition >=8 ft wide)	85	0.41	35
2-Open Gym 101 (Gymnasium/Fitness Center:Playing Area)	912	0.85	775
3-Toilet 104 (Common Space Types:Restrooms)	40	0.63	25
4-Jan. 103 (Common Space Types:Storage)	55	0.38	21
5-Storage 102 (Common Space Types:Storage <50 sq.ft.)	50	0.38	19
		Total Allowed Watts =	875

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Corridor (Common Space Types:Corridor/Transition >=8 ft wide)				
LED: P2: 2X2 PANEL: Other:	1	2	40	80
2-Open Gym 101 (Gymnasium/Fitness Center:Playing Area)				
LED: P1: 16" PENDANT: Other:	1	6	63	378
3-Toilet 104 (Common Space Types:Restrooms)				
LED: D1: Other:	1	1	28	28
4-Jan. 103 (Common Space Types:Storage)				
LED: P2: 2X2 PANEL: Other:	1	2	40	80
5-Storage 102 (Common Space Types:Storage <50 sq.ft.)				
LED: P2: 2X2 PANEL: Other:	1	1	40	40
			Total Proposed Watts =	606

Interior Lighting PASSES: Design 31% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael McShea, PE | | 10-16-2025

Name - Title | Signature | Date



Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	Kid's Play Place
Location:	Colorado Springs, Colorado
Climate Zone:	5b
Project Type:	New Construction

Construction Site:
11910 Tourmaline Dr,
Colorado Springs, Colorado 80831

Owner/Agent:

Designer/Contractor:

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Pikes Peak REGIONAL Building Department
trevorh
MECHANICAL

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

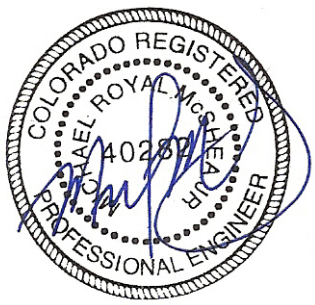
Mechanical Systems List

Quantity	System Type & Description
1	HVAC System (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 86400 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et Cooling: 1 each - Single Package DX Unit, Capacity = 48000 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 9.50 EER, Required Efficiency = 9.50 EER Proposed Part Load Efficiency = 12.30 IEER, Required Part Load Efficiency = 12.30 IEER Fan System: FAN SYSTEM 1 | OPEN GYM -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 1 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.10 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael McShea, PE		10-16-2025
Name - Title	Signature	Date



Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

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Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.4 [ME142][2]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.6 [ME143][2]	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.9 [ME144][2]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.13.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.5.5 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.1, C403.12.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.2 [ME16][1]	Economizer operation will not increase heating energy use during normal operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.3 [ME124][1]	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.4 [ME125][1]	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.5 [ME126][1]	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.3 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3, C403.11.3.1, C403.11.3.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.1.1 [FI50][3]	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.1 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.1, C403.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.1 [FI31][1]	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.2 [FI10][1]	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.2 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)