

Historic Preservation Services

Community Development & Neighborhood Services 281 North College Avenue P.O. Box 580 Fort Collins, CO 80522.0580

970.416.4250 preservation@fcgov.com fcgov.com/historicpreservation

CERTIFICATE OF APPROPRIATENESS ISSUED: November 8, 2022 EXPIRATION: November 8, 2023

City of Fort Collins c/o Mark McLean 300 Laporte Ave., Building B Fort Collins, CO 80521

Dear Property Owner:

This letter provides you with confirmation that the proposed changes to your designated Fort Collins landmark property, the Carnegie Library at 200 Mathews St., have been approved by the City's Historic Preservation Division because the proposed work meets the criteria and standards in Chapter 14, <u>Article IV</u> of the Fort Collins Municipal Code.

- 1) Demo of existing monument sign for Carnegie Center for Creativity by west elevation.
- 2) Heritage Courtyard gate replaced with structure with sliding gate panels and "Carnegie Center for Creativity" vinyl sign.
- 3) Fencing infill and new perforated steel panels for property north elevation mechanical enclosure.
- 4) All existing fencing directly associated with building painted.
- 5) New freestanding canopy for south elevation door.
- 6) Replacement of south door with two-leaf wood door (Door 101A); existing hollow metal frame reused.
- 7) Replacement 2nd floor north elevation egress door with wood door (Door 301B).
 - a. Wood door frame refurbished.
- 8) North elevation stair replacement to meet code.
 - a. Use a stone masonry-appropriate seal to prevent water infiltration around the bolts if anchors into historic stone required.
- 9) Masonry repair, including removal of existing sealant and new sealant installed at base of wall.
 - a. Ensure there is a gap between the concrete and historic masonry to prevent cracking/spalling of stone prior to filling gap with sealant.
 - b. Refer to <u>NPS Preservation Brief 1</u> for any masonry cleaning; test patch the reaction of the stone to the selected cleaning agent before proceeding.
 - c. Refer to <u>NPS Preservation Brief 2</u> for any masonry repointing; new mortar should match in color and be softer and more vapor permeable than the stone.
- 10) Exterior window and door frames paint removed, sanded, filled, and re-painted.
 - a. Paint removal should not be done with water or sand blasting, through the use of rotary drill attachments, through extreme thermal techniques like propane or butane torches, and chemical solvents should only be used with extreme caution in areas where other methods are not feasible (see NPS Preservation Brief 10).

- 11) Plywood art panels removed and salvaged (east elevation).
- 12) Plywood furring wall at gates replaced (south elevation).
- 13) Soffit, fascia, frieze, bracket, and molding repaired, replaced in-kind if needed, and painted; ivy tendrils removed.
 - a. Refer to Technical Preservation Service's <u>publication</u> on epoxies for wood repairs for repair of these features.

*Please note that this Certificate of Appropriateness does not approve the exterior window refurbishment referenced in the attached plans. (Exterior windows – any existing metal bars removed; refurbished per evaluation given by third party historic window specialist). This project component will be reviewed separately.

Notice of the approved application has been provided to building and zoning staff to facilitate the processing of any permits that are needed for the work.

Please note that all ensuing work must conform to the approved plans. Any non-conforming alterations are subject to stop-work orders, denial of Certificate of Occupancy, and restoration requirements and penalties.

If the approved work is not completed prior to the expiration date noted above, you may apply for an extension by contacting staff at least 30 days prior to expiration. Extensions may be granted for up to 12 additional months, based on a satisfactory staff review of the extension request.

Property owners can appeal staff design review decisions by filing a written notice of appeal to the Director of Community Development & Neighborhood Services within fourteen (14) days of this decision. If you have any questions regarding this approval, or if I may be of any assistance, please do not hesitate to contact me. I can be reached at yjones@fcgov.com or at 970-658-0263.

Sincerely,

Yani Jones Historic Preservation Planner

Applicable Code Standard	Summary of Code Requirement and Analysis (Rehabilitation)	Standard Met (Y/N)
SOI #1	A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships; The use of the building is not significantly changing because of	Y
	this building rehabilitation project.	
SOI #2	The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.	Y
	The exterior features of the property that will be removed/replaced as part of this rehabilitation project do not have historic significance (modern sign, 2 non-original doors, egress stair, plywood elements, modern fencing and gate), and so distinctive materials, features, spaces, and special relationships characteristic of this property are not being impacted.	
SOI #3	Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.	Y
	There are no conjectural features being added as a part of this project. Features added, such as the new gate and canopy, fencing modifications, and the modification to the egress stair on the north elevation are all clearly modern.	
SOI #4	Changes to a property that have acquired historic significance in their own right will be retained and preserved.	Y
	The property has undergone several significant changes over time, such as the 1939 addition that doubled the size of the building and the small one-story stone structure on north elevation. There are minimal impacts to these elements because the scope of the project's exterior alterations is generally limited to repair of existing historic features and modification of non-historic features.	

SOI #5	Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.	Y
	Because this project includes masonry repair, window and door frame refinishing, and repair or in-kind replacement of roof-level wood architectural features, the distinctive materials, features, finishes, construction techniques, and examples of craftsmanship characteristic to this property will be preserved.	
SOI #6	Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.	Y
	Although the north egress door/stair was added to the building in 1970, more than 50 years ago, it is not a characteristic feature of the property, and so the replacement of the door with another wood door and the replacement of the stair with a modified stair that meets code but does not obscure the historic building still meets this standard. Other deteriorated features, such as the roof-level wood architectural elements, will be repaired or replaced in kind where the severity of the deterioration requires replacement.	
SOI #7	Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used. Please adhere to the conditions outlined for the project on page 1 and 2, including the linked guidance on appropriate chemical or physical treatments for cleaning masonry, removing paint, etc.	Y
SOI #8	Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.	Y
	It is unlikely that this project will impact archaeological resources, but the applicant shall protect and preserve in place any archaeological resources should any be found, and if disturbed, mitigation will be required.	

SOI #9	New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment. The new canopy for the south elevation door and the new gate/sign are both clearly modern additions because of the smooth surfaces, colors, and materials used. The canopy is visually connected in its design to the gate. The gate is tied to the historic building through the integration of a sandstone pillar at the point nearest the building. The impact of the gate to the building's integrity of setting is reduced by the removal of the non-historic monument sign by the building's façade. The alterations to the north elevation second-story egress door and stair are for code compliance, and the design minimizes visual impact to the historic building. Should the associated structural components for the stair/platform require anchoring into historic masonry, a stone masonry-appropriate seal will be used to protect the stone by preventing water infiltration around the bolts.	Y
SOI #10	New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired. Because neither the new canopy for the south elevation door nor the new gate structure are attached to the historic building, they could be removed in the future without impacting the historic building or its environment. The alterations to the north elevation second-story door and stair could also be reversed in the future because they do not disrupt the essential form or integrity of the historic property.	Y



COMMUNITY DEVELOPMENT & NEIGHBORHOOD SERVICES

281 N. College Ave. • Fort Collins, CO 80524 • Phone: 970.416.2740 • www.fcgov.com/building

BUILDING PERMIT APPLICATION

APPLICATION NUMBER:	FOR OFFICE USE	FOR OFFICE USE APPLICATION DATE:			
Job Site Address		Unit#	t		
PROPERTY OWNER INFO: (All owner	information is required – NOT op	tional)			
Last Name	First Name	Middle			
Street Address	City	State	Zip		
Phone #	Email				
Name of Business (COMMERCIAL USE ON	ILY)				
CONTRACTOR INFO: Company Name					
License Holder Name		LIC #	CERT #		
LEGAL INFO:					
Subdivision/PUD	Filing #Lot #	Block #Lot S	q Ft		
CONSTRUCTON INFO: Total Building	Sq Ft (NOT including basement)	Total Garage Sq. Ft	·		
Residential Sq FtCommerc	ial Sq Ft# of Stories	_Bldg Ht# of Dwellin	ng Units		
1st Floor Sq Ft2nd Floor Sc	q Ft3rd Floor Sq Ft	Unfinished Basement S	q Ft		
Finished Basement Sq Ft	# of Bedrooms	# of Full Baths			
¾ Baths	# Fireplaces				
ENERGY INFORMATION: (CHECK ONE)					
Prescriptive Performance	U/Arescheck□ ERI □ ASH	IRAE ☐ Component/Comch	eck 🗌 IDAP 🗌		
Air Conditioning? YES					
City of Fort Collins Approved Stock Pla	an # SPO List Option	n #s			
<u>Utilities INFO:</u> New Electric Service ☐ Elect	ric Sarvica Ungrado 🗆 — Electric	Motor Polocation			
Electric Main Breaker Size (Residentia					
Gas ☐ Electric ☐	Electric Temp Pedes	·			
ZONING INFO: (COMMERCIAL USE O	•				
Proposed Use: (i.e. medical, office, bank	k, retail, etc.)				
For Commercial remodels and tenan	t finishes, please answer the follo	wing questions:			
Is the remodel/tenant finishes for an	existing or new tenant? (Please ch	eck one)			
Existing Tenant□ Ne	w Tenant□				
If for a new tenant, is this the first ter	nant to occupy this space?				
Yes No If not for the	ne initial tenant for this unit, what w	as the previous use of this te	nant space?		
Are there any exterior building chang If yes, please describe:	es (including mechanical) associate	ed with the work? Yes [□ No □		

Value of Construction (ma	aterials and labor): \$			
Description of Work:				
JOBSITE SUPERVISOR COI	NTACT INFO: Name	Phone		
SUBCONTRACTOR INFO:	Electrical	Mechanical		
Plumbing	Framing	Roofing	ofing	
FireplaceSolar				
		State of Colorado Senate Bill 13-152, property owners, app aving been inspected for Asbestos Containing Materials (AC		
☐ I do not know if a	n asbestos inspection has been co	onducted on this property.		
☐ An asbestos inspe	An asbestos inspection has been conducted on this property on or about (enter date)			
☐ An asbestos inspe	An asbestos inspection has not been conducted on this property.			
comply with all requiremen	ts contained herein and City of Fort (ion and state that the above information is correct ar Collins ordinances and state laws regulating building co		
Applicant Signature	Mach Man	Type or Print Name		
Phone #	Email			

THIS APPLICATION EXPIRES 180 DAYS FROM APPLICATION DATE



Planning, Development & Transportation 281 N. College Ave Fort Collins, CO 80524 Phone 970-416-2740 Fax 224-6134

BUILDING OWNER AUTHORIZATION TO OBTAIN A COMMERCIAL BUILDING PERMIT

I, (Print) _	Mark McLean	_as owner of record (property
address)	200 Mathews Street	known as (name of
business) _	The Carnegie Building	hereby authorize the
	below to be done on said property. I understand to contractors licensed by the City of Fort Col	
	n giving permission for interior work only . The sted to:	
	n giving permission for exterior work only . The	
limit	n giving permission for interior and exterior wor red to: Interior Renovation to include New HVAC, Lighting incase to connect all floors. Restoration of Windows, ex	rk. The scope of the work shall hting and power distribution; New
May h Property own	ner signature)	Mark McLean
The foreaoin	g affidavit was acknowledged before me on the	the day of
Witness my l	ose therein set forth. KYLE J. SHOOK NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20194032655 ion expires: 8/27/23 MY COMMISSION EXPIRES AUGUST 27, 20	
Permit #	Office use only	lic /





Building Permit Submittal Checklist: Commercial Remodel/Tenant Finish

Incomplete or deferred submittals will not be accepted

Revised 11/4/2021

Required at the time of permit submittal - Electronic submittal required.				
Drawings depicting the scope of work		Building Permit Application		
Plans must reflect current adopted codes and standards:		Construction Waste Management Plan Form		
www.fcgov.com/building/codes.php		(Required for a scope of work over 2,500 sf.)		
Plan Check Fee		Owner Authorization Form		

Required Drawings NA=Not Applicable NIS=Not in scope

A <u>Fully Stamped Set</u> is required for any of the following (3) conditions:

- 1. Scope of work greater than 5,000 square feet
- 2. First Tenant to occupy a space
- 3. Change of Occupancy (see additional handout)

Drawing Checklist

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	Existing and Proposed Scaled Drawings to include:
	Floor Plans with room labels and areas
	Accessibility details as required
	Interior Elevations including restrooms
	<u>Structural Drawings</u> (stamped by a State of Colorado licensed Structural Engineer or qualified Architect)
	Exterior Elevations (see Zoning requirements)
	Wall types, sections and details.
	Mechanical Drawings
	Drawings to show supply, Return, Exhaust, Hoods, and other
	special equipment.
	Electrical Drawing show outlets, lighting, panel/s, equipment.
	A New 3 phase service or service change more than 225 amps requires an engineered + stamped Electrical One-Line Diagram.
	Plumbing Drawings
	Waste and Vent Isometric, Supply, Equipment.
	ComCheck or Lighting Wattage Worksheet
	Required for Lighting alterations more than 50%.

Additional Requirements (may require a separate submittal)

Larimer County Health Department

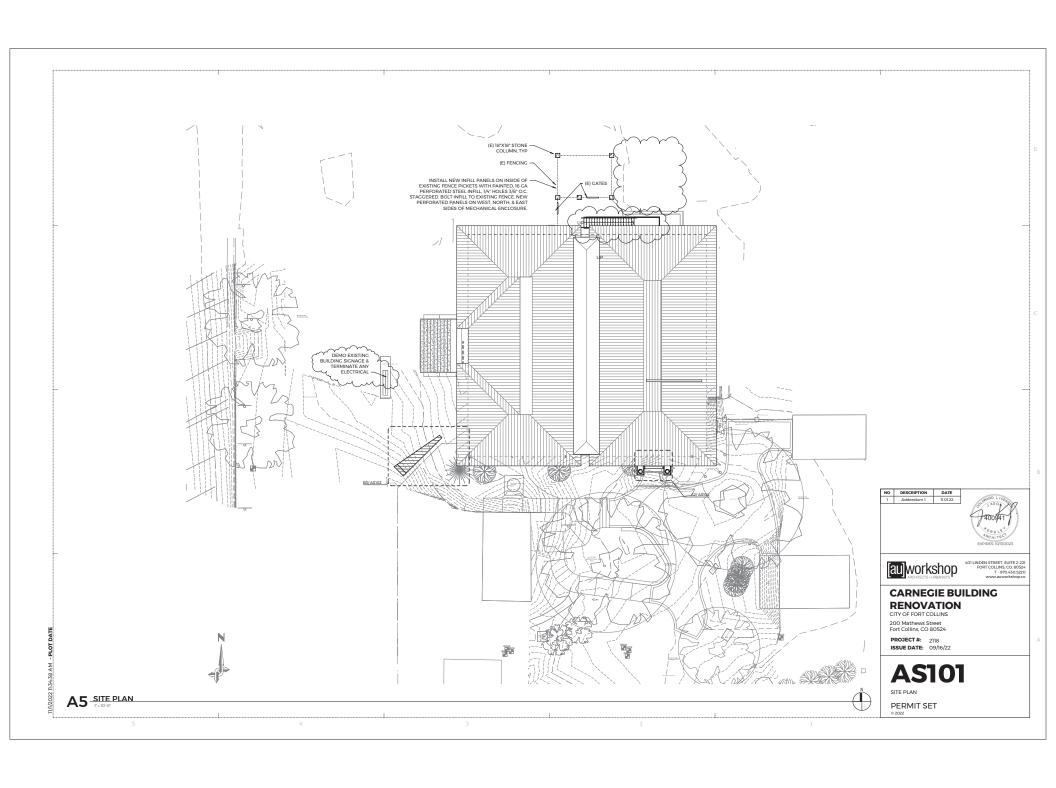
1525 Blue Spruce / (970)-498-6785 https://www.larimer.org/health A separate submittal and review are required for food or drink service, preparation, or processing; Also, daycares; schools; and healthcare.

Energy Assessment: 970-221-6818 assessments@fcgov.com

Upon submitting your permit, it will be reviewed to determine if a free, remote energy assessment is warranted. Our team may reach out directly to the building owner's representative concerning the assessment.

Poudre Fire Authority: 102 Remington / (970)-416-2891 https://www.poudre-fire.org/online-services A separate submittal is required through the Poudre Fire Authority website for most tenant finish projects. Fire suppression system modification will also require a separate additional submittal. **Zoning:** 281 N College / (970) 416-2745 zoning@fcgov.com Change of Use or Exterior modifications (i.e.: façade, parking, landscaping, or other changes visible to the public), may require a minor amendment. Are you building in a Floodplain? https://www.fcgov.com/utilities/what-wedo/stormwater/flooding/floodplain-maps-documents **Historic Preservation Review** www.fcgov.com/historicpreservation Alterations to, or Demolitions of buildings more than 50 years old will be reviewed for Historic Eligibility

Applicant Name:	Job Site Address:
Phone:	Email (Required):





CARNEGIE BUILDING RENOVATION CITY OF FORT COLLINS PERMIT SET

PROJECT #: 2118 ISSUED: 09/16/22



401 LINDEN STREET SUITE 2-221 FORT COLLINS, CO 80524 p:970-430-5220 ©2022 www.auworkshop.co GENERAL SHEET NOTES AND KEYED NOTES PROVIDED IN EVERY DRAWING SECTION ARE INTENDED FOR EACH ENTIRE SECTION, AND THEREFORE ALL NOTES MAY OR MAY NOT SPECIFICALLY APPLY TO EACH INDIVIDUAL SHEET OR DETAIL OF A GIVEN SECTION.

A. THE ALCONFILENCE ADMINISTRATION OF THE ACCOUNT OF THE OWNER OF THE ACCOUNT OF

5. THESE DRAWINGS AND SPECIFICATIONS ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THESE DRAWINGS AND RELATED DISTRIL FILES ARE NOT TO BE SCALED FOR COMENSIONS. ALL WRITTEN COMENSIONS SHALL HAVE PROXITY OVER OTHER PROVIDED INFORMATION, ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE XXBSTEF PRIOR TO BID SUBMITTAL, START OF SHOP DRAWWINGS, START OF CONSTRUCTION, AND/OR FARREACTION OF HATEFAILS.

INSTALL ALL ITEMS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, EXCEPT THAT THE SPECIFICATIONS HEREIN, WHERE THE MORE STRINGENT, SHALL BE COMPLIED WITH NOTIFY THE ARCHITECT IN WRITING OF ANY COMPLICTS

7. AS PART OF THE CONTINUE TOPS SESSIONS BELLT TO DOCUMENTE THE WORK OF ALL SPECIALISATIONS, TRAVES, AND SUPPLIES, THE CONTINUE OF A BUILD SESSIONS TO BRIDING THE MOST OFF THE PARTIES AT THE CONTINUE THE STATES AT THE WORK ALL OBJECTIONS FROM THAT WHICH IS SERVICED THE CONTINUE TO CONTINUE TO A REPORT OF THE CONTINUE THE PARTIES AT THE CONTINUE THE CONTINUE

VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS FOR STRUCTURAL, MECHANICAL AND ELECTRICAL WORK AND EQUIPMENT WITH ALL TRADES NOT USED.

9. THE DISCIPLINE SPECIFIC GENERAL NOTES, SIMBOLS AND DEFINITIONS SPECIFICALLY APPLICABLE TO A GIVEN DISCIPLINE CAN BE FOUND AT THE FRONT OF EACH DISCIPLINE'S PORTION OF THE SET OF DRAWINGS, WHICH ARE LISTED IN THE PROJECT SHEET WIDEK.

10. BASIC CODE, FIRE PROTECTION AND/OR EXITING SEQUIREMENTS FOR THIS BUILDING/STRUCTURE CAN BE FOUND IN THE CODE SERIES ORANINOS (G-SERIES). THE CONTRACTOR SHALL BE FAMILIAN WITH THE REQUIREMENTS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REPERENCED FIRE-HATED ASSEMBLY TESTS AND STANLANDESS AS MY, EMERT TO THE FLOOR RANS FOR ASSEMBLE TO THE PARTITION PRESSURED IN THE ROBICT.

11. THE ARCHITECTURAL GRAWINGS ESTRALISH, COORDINEE, AS WILL AS THAT PRECEDENCE FOR THE PRINCED APPEARANCE AND EXACT LICATION OF ALL THE BRYSDS DEPRIES OF THE WORK OF ALL TRANSE, PALLODON THAT WORK WHICH IS ALL STRAND PRIMMARY ON DRAWINGS OF OTHER COORDINASS. LOCATIONS SORMING COMED GROWNERS ASSESSMENT, LICATION CONSENSES RETOON AND EXCEPTIONAL REALWARKS. DESCRIPTIONS OF OTHER COORDINASS ASSESSMENT AND ADMINISTRATION OF THE COORDINASS ASSESSMENT AND ADMINISTRATION OF THE COORDINASS AND CONTROL SECRETARY SERVICE OF CONTROL SECRETARY SERVICE OF CONTROL SECRETARY SERVICE OFFICE.

12. EXCEPT WHERE DIRECTED TO, PLACE ITEMS OF THE WORK AT THE APPROXIMATE LOCATIONS SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWIN TO EXACT SCALE ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON PLANS
DETAILS, EXERCIFIED, SCENDING, SCHOOLE SAND SPECIFICATIONS.

18. THE DRAWINGS MAY MAKE REFERENCE TO AND/OR ILLUSTRATE ITEMS WHICH ARE NOT A PART OF THE SCOPE OF WORK OF THE CONTRACT, THESE 'NOT IN CONTRACT ITEMS AS INDICATED ARE REFERENCED AND/OR ILLUSTRATED FOR THE CONTRACTOR'S REFERENCE. INFORMATION AND COORDINATION ONLY.

10 THE CONTRACTOR SHALL MAINTAIN CHROSTAL REACHED RECORD DOCUMENTS INCLIDING BUT NOT UNITED TO THE OSSITIAL BROWNT GET AND ALL HERATED DRAWINGS, SPECIFICATIONS, AND OTHER APPLICABLE INFORMATION ON SITE THROUGHOUT THE CONSTRUCTION PROCESS. THESE DOCUME AVAILABLE TO THE ARCHITECT FOR REVIEW AT ANY TIME AND WILL BE A PRE-REQUISITE TO APPROVAL OF THE MONTHLY PAY APPLICATION.

. UNLESS OTHERWISE SPECIFICALLY REQUIRED, THE CONTRACTION SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES FOR THE CONSTRUCTION AND THE RECORD THE CONSTRUCTION AND THE RECORD SHALL RURNISH OWNER OF A LEGISLATION OF THE RECORD SHALL RURNISH OWNER OF A RESIDENCE OF THE RECORD SHALL RURNISH OWNER OF A RESIDENCE OF THE RECORD SHALL RURNISH OWNER OF A RESIDENCE OF THE RECORD SHALL RURNISH OWNER OWNER OF THE RESIDENCE OF THE RE

THE CONTRACTOR SHALL THAT ALL PRECIATION TO MANTAIN AND PROTECT NEW WORK, AS WILL AS EXISTING STRIPS ANQUIR LEMENTS, WHICH ARE BROKED THE PRIME, AND CHANGET OS LOSS STRIPS ANDOES EXPENTS SHALL BE PROBURENT AN PROMEED THA MANUSE ACCUPATED TO ME APPOINTED CHANGES AND CHANGES TO ME AND CHANGES AN

23. THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED DISPECTIONS OF WORK, INCLIDING THOSE PERFORMED BY THE OWNER'S REPRESENTATIVES. THE CONTRACTOR SHALL REQUIRELY UPDATE THE ASSUMECT AND OWNER ABOUT THE STATUS OF INSPECTIONS.

24. THE CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH THE OWNER'S PROCEDURES AND/OR REQUIREMENTS FOR MAINTAINING A SECURE SITE AND BUILDING.

25. THE DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS. DRAWINGS, OR PORTIONS THEREOF, USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR WITHOUT REVIEW OF THE ARCHITECT/ENGINEER.

26. THE TIPICAL LIMIT OF WORK AREA DEFINES THE INTENDED SCOPE LIMITS OF WORK TO BE PROVIDED IN THE CONTRACT. THERE MAY BE INSTANCES WHERE EFFORTS OR ITEMS SUCH AS PROTECTION OF DRAWINGS INSTEINS, UTILITY SYSTEMS, AND GRADING OPERATIONS MUST EXTEND BEYOND THE TYPICAL LIMIT OF WORK L

27. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL SUBCONTRACTOR.

28. THE CONTRACTOR SHALL COORDINATE ALL LOCATIONS AND SIZES OF HOUSENEEPING PMLS, ROOF CARES, ROOF PLATFORMS, EQUIPMENT SUPPORTS/PLATFORMS, AND THE LESS WITH THE REMOVEMENT OF DESCRIPTIONS THE CONTRACTOR WILL ASSO COORDINATE WITH THE OWNER FOR ANY OWNER PROVIDED 2.5 THE CONTRACTOR WILL ASSO COORDINATE WITH THE OWNER FOR ANY OWNER PROVIDED 2.5 THE CONTRACTOR SHALL PRINTS AND DESTAIL ALL LOURSES, HICLIONG REMOVEMENT UNDER A CONTRACTOR SHAPE IN THE DESTAIN STANDARD THAT WILL BE USED THROUGHOUT, OWNERS WITH THE OWNER THAT ANY OWNER PROVIDED AND THE OWNER SHAPE OF THE OWNERS AND THE OWNERS

20. THE CONTRACTOR SHALL PROVIDE AND PRICE TURNELLY FRIENDE ACCESS SHALLS, INCLUDED ACTION SHALLS, COLLEGE AND THE CONTRACTOR SHALL PROVIDED ACCESS SHALLS, SHALLS AND CREATING AT ALL LOCATION SHARLS SHALL SHALL

31. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ALL BLOCK-OUTS, SLEEVES, INSERTS, EMBEDS, BOLTS, PLATES, ETC. FOR ALL TRADES PROOR TO PLACING ANY CONTRACTOR

22. THE CONTRACTOR CHALL BE COLD VIDEOPINCIBLE COR ALL MEANS, METHODS AND CONTENDED OF CONCEDICTION

24 THE CONTRACTOR CHALL BE COLDLY DECENDED IN THE CASETY OF ALL CONCENTTION DESCRIPTION AND ALL AUTHORIZED INSTITUTE.

35. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND/OR DEMOLITION DEBYS. THE CONTRACTOR SHALL ESTABLISH A PLAN AND OBTAIN APPROVAL FROM THE OWNER FOR ANY REQUIREMENTS OR DETAILS SELECTED TO ALL STEE ACCESS AND REMOVAL POINTS. DUMPING OF CONSTRUCTION DEBYS ON SITE IS STIGATLY PROVISED. THE ACCESS AND REMOVAL POINTS. DUMPING OF CONSTRUCTION DEBYS.

36. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH A NON-METALLIC SEPARATOR

37. ALL WOOD IN CONTACT WITH CONCRETE OR CMU SHALL BE TREATED. THIS SHALL INCLUDE PLATES AND PLYWOOD.

38. ALL MATERIALS FOR USE IN THIS PROJECT SHALL BE NEW AND UNUSED UNLESS SPECIFICALLY OTHERWISE NOTED.

39. NO ASBESTOS OR PCB CONTAINING MATERIAL SHALL BE USED ON THIS PROJECT.

40. ALL REQUIRED, AS OCCUR, RATED-DETAIL ASSEMBLIES SHALL BE APPROVED BY UL, ICBO, FM, USG AND/OR ANSI.

41. CEILING HEIGHTS AS SHOWN IN REFLECTED CEILING PLAN AND/OR FINISH SCHEDULES (AS OCCURS) ARE FROM RELATIVE LEVEL OF SCHEDULED ROOM. IN ROOMS WHERE CEILING HEIGHT VARIES (AND/OR WHERE FROM RELATIVE LEVEL OF SCHEDULED ROOM. IN ROOMS WHERE THE RESERVE BUILDING AND WALL SECTIONS.

42. ALL INTERIOR PARTITIONS AND SOFFITS/CEILINGS ARE TO BE INSULATED FOR ACQUISTICAL PROVACY WITH ACQUISTICAL BATTS THROUGHOUT PROJECT

3. ALL EXTERIOR FURRED WALLS, AS OCCUR, SHALL HAVE MINIMUM R-20 THERMAL BATT INSULATION, UNLESS NOTED OTHERWISE. WHERE FURRING AND SOFFIT RAMING AT EXTERIOR CONDITIONS ARE DEEP ENOUGH, R-24 THERMAL BATT INSULATION SHALL BE PROVIDED. 44. ANY PIPING/COMPONENTS THAT REQUIRE AN INSULATED ENVIRONMENT AND OCCUR ADJACENT TO UN-INSULATED COVERED EXTERIOR SPACES SHALL BE WRAPPED WITH RPE-BRAPPING INSULATION

45. WHERE OWN CELL DISCOPPORTIONS (OR AND THE MINERBUL) ABUTS A MITERAL OF AND THE DISCOPPORTED RESIDENCE FROM (I.E. CHI) WHILE, BITS WHILE, INTO, III THAN IN ENABRISH WHILE SHOUTH OF MINERS, THE AND THAN IN THE AND THE AND THE AND THAN IN THE AND THAN IN THE AND THE AN

47. THRESHOLD HEIGHTS SHALL BE A MAXIMUM OF 1/2" AND SHALL ALSO MEET REQUIREMENTS OF ANSI 117.1-2017.

48. GLASS IN DOORS, AS MAY OCCUR, SHALL BE TEMPERED AND MATCH SURROUNDING GLASS IN ADJACENT SIDELITES OR ASSOCIATED WINDOW SYSTEMS. REFER TO PLANS AND DOOR + FRAME SHEETS FOR SPECIFIC INFORMATION ASSOCIATED WITH THIS PROJECT.

49. PROVIDE 48" HIGH X 16 GA. SATIN STANILESS STEEL SEAVLESS PANELS ADHERED TO WALLS IMMEDIATELY ADJACENT TO ALL MOP SINK LOCATIONS, AS OCCUR.
PANELS SHALL COVER MAY MOP SINK ENGAGEMENT TO A WALL AND EXTEND PARTS SIDE OF MOPSINK ON WALL BY 12", SCRIER PANEL TO MOP SINK PROFILE. PROVIDE
SEALED MATCHINES ESCUTICHENCY. WHERE MAY PERSTANDING SOCUR. REFER TO PLUMENING FOR MOP SINK AND BALLING CF. PASCICATED APPLIES

51. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-4:108C WITHIN 75 FOOT TRAVEL DISTANCE OF ALL PORTIONS OF THE BUILDING ON BACH FLOOR. LOCATE AS SHOWN ON PLAN & DIRECTED BY THE FIRE MASSHALL

S2. WHERE ANY SAINCUTTING OF EXISTING SITE SLABSJORINES/ETC. IS REQUIRED IN ORDER TO ACCOMPLISH ANY FACET OF NEW WORK, THE FULL PROJECT EXTENT C SANGUTTING SHALL FIRST BE AGREED TO OVER A SKETCH DISCUSSED WITH THE CONTRACTOR AND THE ARCHITECT PROOR TO THE COMMENCEMENT OF ANY WORK.

S). LL CRESTACTOR METIBLE, DALLORGED FOR THE PRIOR PACER CAPERICA DA SET-FARRED TESSES, ROLCHIOS SEAANTS, NO AMERICA SEASTER.
ROCKING, CAMPTEN AND MA, SET-FARRED PARTS, STAISS AND HANDRISS, STRUCTURAL ROCK PARES, MICHIGADO SERRE PATROCO, METILE SEAND AND
ROCK PARES, MICHIGAN SERVICE PARES, STRUCTURA, ROCK PARES, MICHIGAN SERVICE PARES, MICH

PROJECT SITE MAP

AD141 LOWER LEVEL DEMOLITION REFLECTED



MAS MAT MAX MB MECH MIN MISC MTL MASONRY MATERIAL MAXIMUM MARKER BOARD MECHANICAL MINIMUM MISCELLANEOUS METAL AIR CONDITION AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR ALTERNATE ALUMINUM B-BLDG BUILDING B.O. BOTTOM OF BUR BUILT UP ROOFING (N)-(N) N NIC NEW NORTH NOT IN CONTRACT COVE BASE CORNER GUARD CONTROL JOINT CENTER LINE NOM NOMINAL NTS NOT TO SCALE CL CENTER LINE CLR CLEAR CMU CONCRETE MASONRY UNIT COL CLOUISTE CONT CONTINUE CONTINUOUS CPT CAPET CPT CAPET CPT CAPET CSWK CASEWORK CS CLEAR SEALER CT CERMICTILE **P**-PLAM PLASTIC LAMINATE PT PAINT PVC POLYVINYL CHLORIDE DBL DTL DF DIA DOUBLE DETAIL DRINKING FOUNTAIN DIAMETER QTY QUANTITY DIMENSION DOWN DISHWASHER DIM DN DW RADIUS, RISER THERMAL RESISTANCE THERMAL RESISTANCE RETURN ALL RETURN ALL RETURN ALL REPRESENSE REFLECTED CEILING PLAN ROOF DRAIN ROOF DRAIN ROOF PRAIN LEADER REFER TO REVISION ROUGH OPENING RUBBER TILET/READ ROOF TOP UNIT RA RB RCP RD RDL RE (E) (E) EXISTING EAST EACH EXPANSION JOINT ELEVATION ELECTRIC, ELECTRICAL ELEVATOR FOILAI EA EJ EL ELEC ELEV REV RO RT RTU EQUAL EXHAUST FAN EPOXY PAINT EXTERIOR EQ EF EPT EXT (S) -S SOUTH SA SUPPLY AIR SAT SUSPENDED ACOUSTICAL TILE SCONC SEALED CONCRETE F/F FA FAF FAAP FACE TO FACE FIRE ALARM FLUID APPLIED FLOORING FIRE ALARM ANNUNCIATOR PANEL FLOOR CLEAN OUT FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISH SCONC SEALED CONCRETE SF SQUARE FOOT, FEET SIM SIMILAR SJ SLIP JOINT SPEC SPECIFICATION SS STAINLESS STEEL, SANITARY SEWER STEEL FCO FD FEC FIN FIXT FLR FM FRP FT STRUCT STRUCTURAL SUSP SUSPEND FIBERGLASS REINFORCED PLASTIC FEET, FOOT (T) T&G TONGUE AND GROOVE THICKNESS TOP OF TYPICAL G GA GAGE GALV GALVANIZED GB GRAB BAR GYP BD GYPSUM BOARD TH T.O. TYP UNO UNLESS NOTED OTHERWISE HM HOLLOW METAL HORIZ HORIZONTAL HT HEIGHT HVAC HEATING, VENTILATING VAR VARIES VB VENTED BASE VCT VINVL COMPOSITION TILE VERT VERT VERTICAL VIF VERTIN FIELD VTR VENT THROUGH ROOF VWC VINVL WALL COVERING AND AIR CONDITIONING INSUL INSULATION INTERIOR (w)-WEST WOOD BASE WATER CLOSET WALL CLEAN OUT WOOD WIDE FLANCE WELDED WIRE FABRIC L ANGLE, LENGTH LAV LAVATORY LINO LINOLEUM

ABBREVIATIONS

SHEET INDEX		SHEET INDEX
R SHEET	AD142	GALLERY & MEZZANINE LEVEL D

	G000	COVER SHEET	AD142	GALLERY & MEZZANINE LEVEL DEMOLITION
	G002	ACCESSIBILITY REQUIREMENTS		REFLECTED CEILING PLAN
	G101	CODE FOOTPRINTS		
	G001	PROJECT GENERAL NOTES	A101	LOWER LEVEL FLOOR PLAN AND FINISH PLAN
			A102	GALLERY LEVEL FLOOR PLAN AND FINISH
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	S101	LOWER LEVEL FOUNDATION PLAN	A421	VERTICAL CIRCULATION - MAIN STAIR
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	AD101	LOWER LEVEL DEMOLITION PLAN		
	AD102	GALLERY LEVEL DEMOLITION PLAN	М	MECHANICAL
	AD103	MEZZANINE LEVEL DEMOLITION PLAN	M0.1	HVAC NOTES, LEGEND, AND DRAWING INDEX

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M11 DEMOLITION DLANS

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SHEET INDEX

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EP502	PANEL SCHEDULES AND FAULT CURRENT
EP600	ELECTRICAL SCHEDULES
EP601	COMCHECK
EP700	ELECTRICAL DETAILS
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EL	LIGHTING DESIGN
EL000	ELECTRICAL COVER SHEET
EL001	LIGHTING SCHEDULES
EL101	LOWER LEVEL LIGHTING PLAN
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	EP502 EP600 EP601 EP700 EP701 EP702 EP800 EPD101 EPD102 EL EL000 EL001 EL101

RENOVATION CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

auworkshop

CARNEGIE BUILDING

T - 970.430.5220

NO DESCRIPTION DATE

PROJECT #: 2118 ISSUE DATE: 09/16/22

GOO

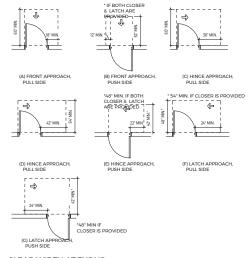
DDOJECT CENEDAL NOTES

DISPLAY CONDITIONS 12 ACCESS OF HEARING LOSS P

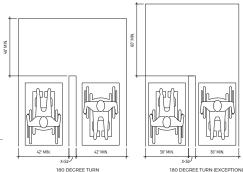




MANEUVERING CLEARANCE AT SWINGING DOORS



CLEAR WIDTH AT TURNS



ACCESSIBILITY SIGNAGE MOUNTING DETAILS

A. 5/8" HIGH BY 1/32" RAISED LETTERING (UNLESS NOTED OTHERWISE

B. GRADE 2 BRAILLE POSITIONED DIRECTLY BELOW

C. 1/32" RAISED PICTOGRAM WITH 70% CONTRASTING BETWEEN BACKGROUND AND TEXT. FINISH TO BE EGGSHELL

WHITE LETTERS

D. COLOR TO BE BURNT ORANGE BACKGROUND WITH MOUNTING ELEVATION MOUNT ON LATCH

DOOR

ENTRANCES / DOORS

I. PROVIDE METALLIC SIGN OVER EACH STOREFRONT DOOR STATING: "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". LETTERS SHALL NOT BE LESS THAN 1" HICH ON A CONTRASTING BACKGOOUND. THE SIGN SHALL BE INSTALLED BY THE GENERAL CONTRACTOR ON THE STOREFRONT ALUMINUM HEADER FRAME.

2 ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

3. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET-8 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DECREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF DOORWAY IS NOT LESS THAN 32-INCHES.

4. WHERE A PAIR OF DOORS ARE UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

5. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINCLE EFFORT BY LEVER TYPE HARDWARE. THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE. PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE D TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE ARE ALLOWABLE.

6. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34-INCHES MIN AND 48" ABOVE THE FLOOR

7. THE FLOOD AND LANDING ON EACH SIDE OF AN ENTRANCE OF PASSAGE DOOR SHALL 7. THE FLOOR AND DINIDING ON BACH SIDE OF AN ENHANCE OF A PASSAGE FOOD SMALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH OF 60 INCHES IN THE DIRECTION OF TRAVEL AND THE LENGTH OF 46 INCHES IN OPPOSITE DIRECTION OF TRAVEL. SEE DIACRAM "MANELUREING CLEARANCE".

8. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24-INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND IS-INCHES PAST THE STRIKE EDGE FOR THE INTERIOR DOORS.

THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4-INCH AND 1/2-INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2

10. THE BOTTOM 10-INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED. A 10-INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSHED SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS

11. A NARROW FRAME WITH A BEVELED TOP (30 DEGREES MAX. BEVEL TO VERTICAL II. A NUMEROW THANKE WITH A SEVELED LIFT DE JO DECREES WARE, EVENT OF VERTICAL. PLANE INSTALLED AT THE BOTTOM OF THE GLASS DOOR (WITH NO SIDE FRAMES) MAY BE USED IN LIEU OF PROVIDING THE REQUIRED 10- INCH UNINTERRUPTED SURFACE AT THE BOTTOM OF THE DOOR.

12. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED S LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTRE PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO NET THE ABOVE STANDARDS. WHEN HER DOORS ARE REQUIRED, THE UTILIZED TO NET THE ABOVE STANDARDS. WHEN HER DOORS ARE REQUIRED, THE REPORT OF THE PROPERTY OF THE PRO

CORRIDORS AND AISLE

13. FLOOR SURFACES SHALL BE SLIP-RESISTANT.

14 EVERY PORTION OF EVERY RUILDING IN WHICH ARE INSTALLED SEATS TABLES MERCHANDISE, EQUIPMENT OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT.

15. EVERY AISLE SHALL BE NOT LESS THAN 3 FEET WIDE IF SERVING ONLY ONE SIDE, AND NOT LESS THAN 3 FEET 8 INCHES WIDE IF SERVING BOTH SIDES. SUCH MINIMUM WIDTH SHALL BE MEASURED AT THE POINT FARTHEST FROM AN EXT. (CROSS SAILS OR FOVER AND SHALL BE INCREASED BY 11/2 INCHES FOR EACH 5 FEET IN LENCIH TOWARD THE EXIT. CROSS AISLE OR FOVER WITH CHAINS SIDE ASILES SHALL BE NOT LESS THAN 4 INCHES INCREASED.

SANITARY FACILITIES

16. ACCESSIBLE SIGN CONTAINING TACTILE CHARACTER SHALL BE PROVIDED AT DOOR THE SIGN SHALL BE ALONG SIDE THE DOOR ON THE LATCH SIDE AND AT DOUBLE DOORS THE SIGN SHALL BE RIGHT OF THE RIGHT HANDED DOOR. THE SIGN CONTAINING TACTILE CHARACTERS SHALL HAVE 18" MIN BY 18" MIN. SPACE ON THE FLOOR CENTERED ON SIGN. THE SIGN TACTILE CHARACTER SHALL BE 48" MIN AND 60" MAX ABOVE FLOOR

17 CLEADANCE ADOLING THE WATER CLOSET SHALL RE 60° MIN MEASURED PERPENDICULAR FROM THE SIDEWALL AND 56° MIN MEASURED PERPENDICULAR FROM REAR WALL. NO OTHER FIXTURES OR OBSTRUCTION SHALL BE WITHIN WATER CLOSET

18 WATER CLOSET COMPARTMENTS SHALL BE FOUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WHEN LOCATED AT THE END AND 34-INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT TAN ANGLE OF 90 DEGREES FROM ITS CLOSE

19. EXCEPT FOR DOOR OPENING WIDTH AND DOOR SWINGS, A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN 4-IN-CHES SHALL BE PROVIDED TO WATER CLOSET COMPATIMENTS DESIGNED FOR USE BY THE DISABLED. THE SPACE MIMEDIATELY IN FRONT OF A WATER CLOSET COMPATIMENT SHALL NOT BE LESS THAN 4-3-IN-CHES AS MEASURED. THE INFORM TO THE WATER CLOSET COMPATIMENT SHALL NOT BE LESS THAN 4-3-IN-CHES AS MEASURED. AT RIGHT AND LESS THE COMPATIMENT DOOR IN ITS CLOSED POSITION.

20.THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES MEASURED TO THE TOP OF TOILET SEAT.

21. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44-INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.

22. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR SPACE 30-INCHES WIDE X 52-INCHES LONG IN FRONT OF THE URINAL

23. WHERE URINALS ARE PROVIDED, AT LEAST ONE WITH A MINIMUM OF 13-1/2*-INCHES WITH A RIM HEIGHT OF 17* MAXIMUM ABOVE THE FLOOR SHALL BE PROVIDED.

24. A CLEAR FLOOR SPACE 30-INCHES WIDE X 52-INCHES LONG SHALL BE PROVIDED IN FRONT OF A LAWATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADDIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL KEYREN INTO KNEE AND TOE SPACE UNDERNEATH THE LAWATORY.

25. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 27-INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30-INCHES IN WIDDIN WITH 3-INCHES INMIMUM DEPTH AT THE TOP. TO FLOC LEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF 9-INCHES HIGH FROM THE FLOOR AND A MINIMUM OF 11-INCHES DEEP FROM THE FROM TOF THE LAVATORY. SEE KNEE CLEARANCE DIAGRAD A MINIMUM OF 11-INCHES DEEP FROM THE FROM TOF THE LAVATORY. SEE KNEE CLEARANCE DIAGRAD

26.A PROJECTION OF LAVATORY BOWL INTO THE 8-INCH CLEAR SPACE. THEREBY REDUCING THE CLEAR HEIGHT BELOW THE LAVATORY TO NO LESS THAN 27-INCHES AT 8-INCHES BACK FROM THE APRON. MEETS THE REQUIREMENT FOR PROVIDING KNEE CLEARANCE.

27. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

28 FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT DECLIDE TIGHT CRASPING DINCHING OF TWISTING OF THE WRIST THE FORCE DECLIDED TO ACTIVATE NOT REQUIRE TIGHT GRASHING, PINCHING OR TIMISTING OF THE WRIST, THE PORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

29. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE NOT MORE THAN

30.LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40-INCHES FROM THE FLOOR.

31. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 79 INCHES IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLING OF THE DISPENSER. THE OUTLET SHALL BE IS INCHES MINMUM AND AS INCHES MAXIMUM ABOVE THE FLOOR, AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSORS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAREPER FLOW.

GRAB BARS

39"-61"

54" MIN

42° MIN.

32 GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LBS, PER LINEAR FEET

33 GRAR BARS SHALL RELOCATED ON EACH SIDE OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABILED TO LET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 33-INCHES ABOVE AND PARALLEL TO THE FLOOR

34. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42-INCHES LONG MOUNTED AT A MAX. 12° FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36-INCHES LONG, AND EXTEND 12° MIN. TO ONE SIDE 8.24° TO THE OTHER.

35. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES TO 1-1/2 INCHES OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.

36. IF THE GRAB BAR IS MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES.

37. A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT SHALL BE FREE OF ANY SHARP OR ABRASIVE

38.GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

39. EDGES SHALL HAVE MINIMUM RADIUS OF 1/8-INCH

ADDITIONAL REQUIREMENTS

40.THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15-INCHES ABOVE THE

4). THE CENTER OF ANY OPERATING HANDLE/SWITCH INTENDED TO CONTROL OR DISPENSE. SHALL BE PER MINIMUM CLEARANCE FOR FRONT AND SIDE REACH DIAGRAM.

42. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS. THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595A.



43 AT KITCHEN: SINKS EALICET CONTROLS AND 43AT KITCHEN. SINKS, FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TICHT GRASPING. PINCHING OR TWISTING OF THE WHIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO CREATER THAN SILS. ELVER. OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN SELF. CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS FOR ALL EAST TO SECOND.

CLEARANCE FLOOR SPACE





ACCESSIBLE SINGLE USER FACILITY LEVEL CHANGES CRAB BARS 42° MIN W/BLOCKING 4" MIN., 12" MIN TOILET PAPER



MINIMUM CLEARANCE FOR FRONT AND SIDE REACH







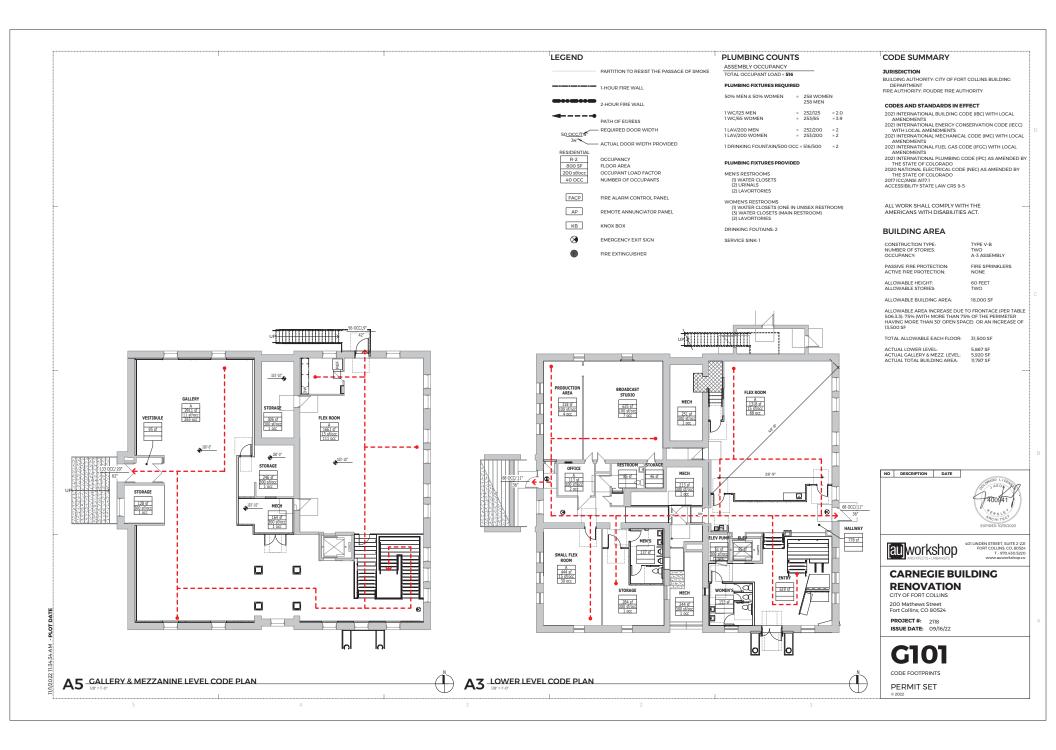
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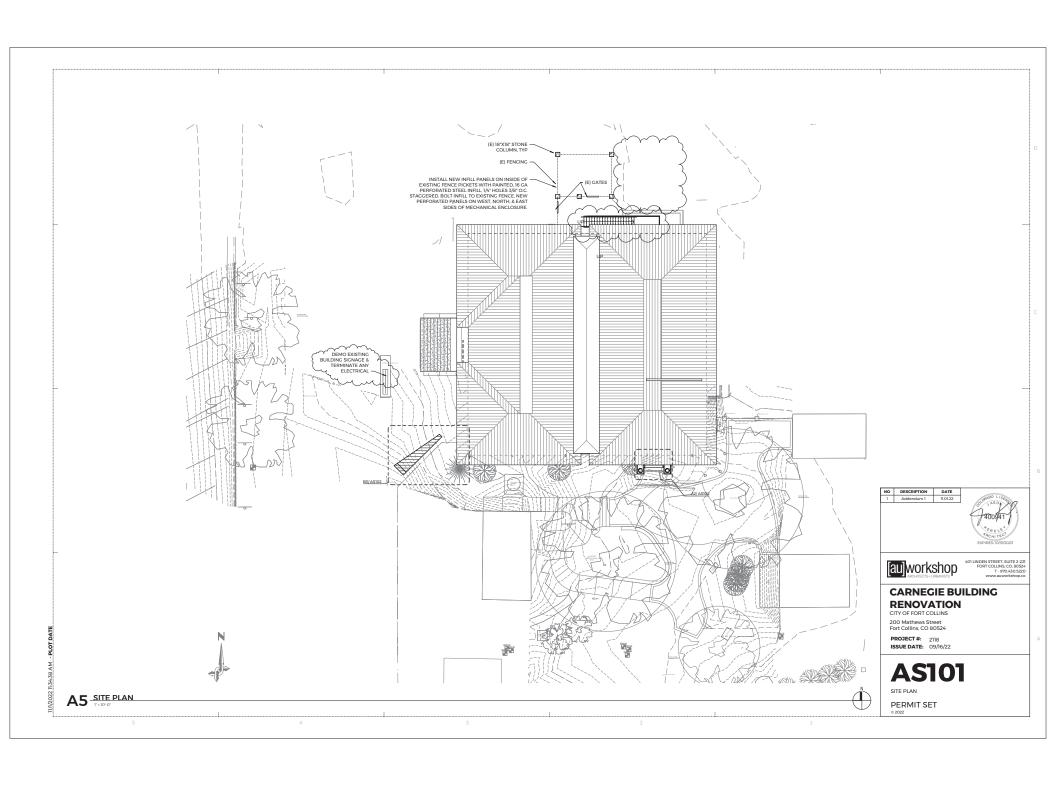
CARNEGIE BUILDING RENOVATION

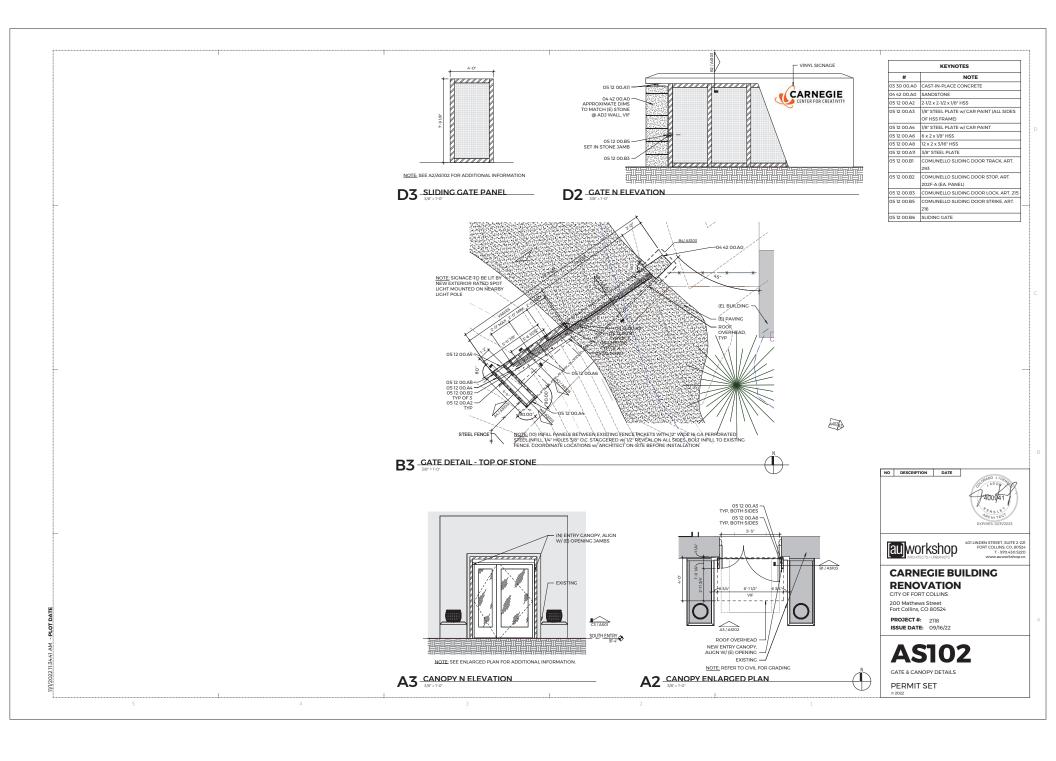
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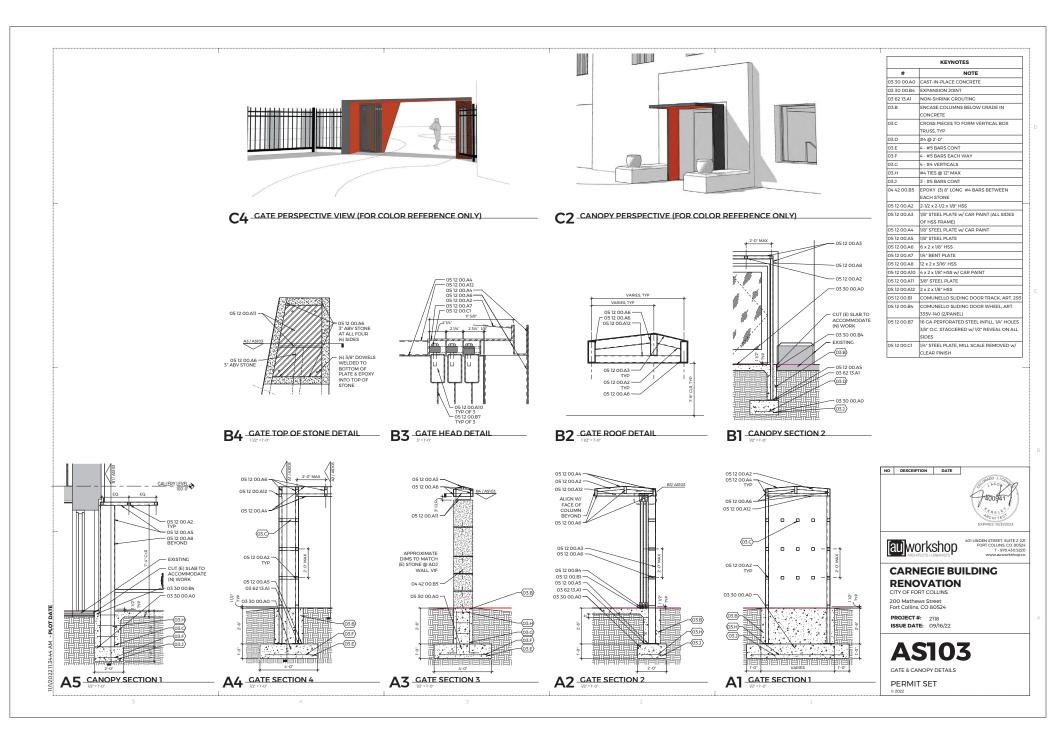
PROJECT #: 2118 ISSUE DATE: 09/16/22

ACCESSIBILITY DEGLIDEMENTS









RE: STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS
FOR FULL SCOPE OF DEMOLITION WORK

2. DBAWINGS INDICATE AN APPROXIMATION OF THE BUILDING CONSTRUCTION AND DIMENSIONS FOR BIDDING PURPOSES IT IS THE RESPONSIBILITY OF THE CONTINACTOR TO VISIT THE STEE AND VERBIYAL LEXISTING CONDITIONS, INCLUDING REQUIRED DEMOLITION OF THE BUILDING AT IS CONTENTS, REQUIRED DEMOLITION OF THE BUILDING AT IS CONTENTS CONSTRUCTION SCOPE OF WORK ADDITIONALLY THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING CONDITIONS WHICH MAY AFFECT THE WORK FOR THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACT IN TIELD VERBIY ALL CONDITIONS EPOCHE ECONTRACTOR TO RELD VERBIY ALL CONDITIONS EPOCHE ECONTRACTOR TO THE DETERMINED.

3. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADMAGE TO STRUCTURES TO BE DEMOLISHED AND ADMAGE TO STRUCTURES TO BE DEMOLISHED AND ADMAGE AND ADMAGENT STRUCTURES OF STABILIZATION OF THE BUSING AND ADMAGENT STRUCTURES OF STABILIZATION OF THE ASSITING AND ADMAGENT STRUCTURED AND ADDITIONAL BRACING NOT SECEPTICALLY INDICATE ON THE ATTACHED DRAWINGS, AS REQUIRED BY CONDITIONS IN THE FIELD.

4. EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIRETY TO EXTENT INDICATED ON THE PRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. RISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED FOR STANDARD FOR THE PROPERTY OF THE PROPERTY OF

5. REMOVE MECHANICAL ELECTRICAL AND PLUMBING FIXTURES, EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CAP AND/OR RECONNECT ANY UNLITES SERVING OTHER PORTIONS O

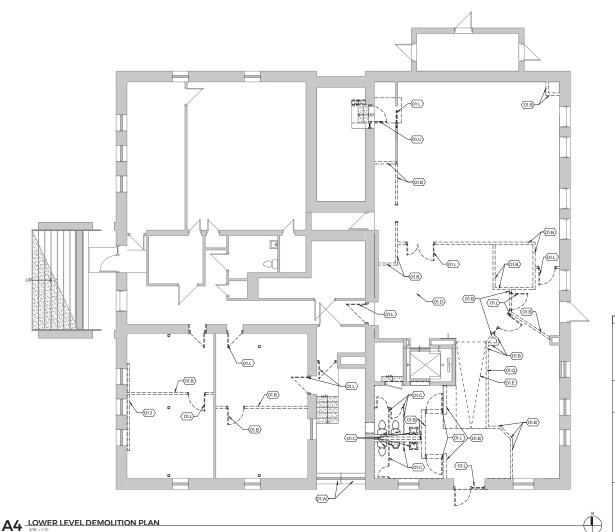
6. PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS LEAVES HOLES, VIOLS, OR UNFINISHED CONDITIONS (#) FINISHED WALLS, FLOORS, AND CEILINGS. FILL ALL EXISTING FLOOR AND WALL PENTERATIONS RESULTING FROM PIDING AND CONDUIT REMOVAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINIAL FLOOR OR WALL PRINSH.

7. REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH, LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN REMOVED, CRIND EDGES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.

8. CLEAN AND PATCH ALL REMAINING WALL FLOOR AND CELLING SURFACES DAMACED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, OR IF TO REMAIN EXPOSED. TO A CONDITION COMPANABLE TO INFORMATION OF THE TOP TO THE TOP TO

 CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.

10. REMOVAL AND REINSTALLATION OF EXISTING CEILINGS MAY BE REQUIRED TO INSTALL NEW SYSTEMS. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.



NOTE

NOTE

01B REMOVE (E) WALL

01C REMOVE (E) PLUMBING FIXTURES

01D REMOVE (E) PLOYER FOR FINISH

01E REMOVE (E) AND TO EXTENT REQUIRED TO INSTALL NEW FLOOR

01C REMOVE (E) TANE TPARTITIONS & DOORS

01J REMOVE (E) PLUBED WALLS

01L REMOVE (E) DOOR & FRAME

01Q REMOVE (E) HANDRAIL

01U REMOVE (E) PLOOR FRAME

01Q REMOVE (E) PLOOR FRAME

01U REMOVE (E) PLOOR FRAME (E) SIDELIES

01W REMOVE (E) PLOOR ON GATES

NO DESCRIPTION DATE





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CARNEGIE BUILDING RENOVATION

CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

Fort Collins, CO 80524

PROJECT #: 2118

PROJECT #: 2118 ISSUE DATE: 09/16/22

AD101

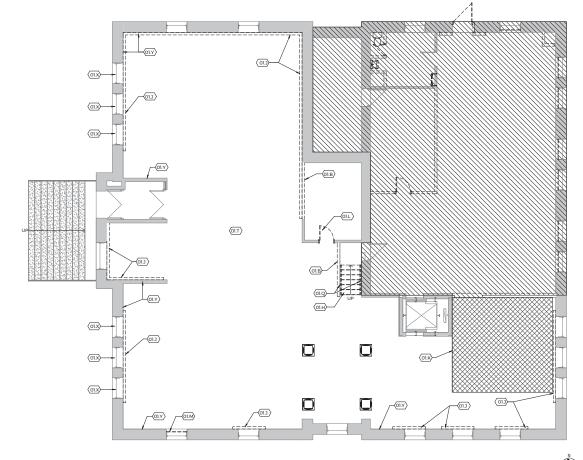
LOWER LEVEL DEMOLITION PLAN

GENERAL NOTES: DEMOLITION

- 1. RE: STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.
- 2. DRAWINGS INDICATE AN APPROXIMATION OF THE BUILDING 2. DRAWINGS INDICATE AN APPROXIMATION OF THE BUILDING CONSTRUCTION AND DIMENSIONS FOR BIDDING PURPOSES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WIST THE IST AND VERPY ALL EXISTING CONDITIONS. INCLUDING, ASSESSION OF THE CONTRACTOR TO WIST THE STEED AND A COMMODATION OF DEMOLITION REMOVAL. AND NEW CONSTRUCTION SCOPE OF WORK ADDITIONALLY. THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING CONDITIONS WHICH MAY AFFECT THE WORK OF THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO THE CONTRACTOR THE CONTRAC
- 3. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS OF STABILIZATION OF THE EXISTING AND ADJACENT STRUCTURES DURING AND AFTER DEMOLITION OF THE BUILDING ELEMENTS. INCLUDING ANY ADDITIONAL BRACING NOT SPECIFICALLY INDICATED ON THE ATTACHED DRAWINGS, AS REQUIRED BY CONDITIONS IN THE FIELD.
- A EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIRETY TO EXTENT INDICATED ON THE PRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. EXISTING WALLS (OP PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTED WITH WALLS TO SHAUL BY CONTROL OF THE WALLS TO THE SHAUL BE SAW OF THE WALLS TO SHAUL BE SAW CUT IN LOST TO SHAUL BE SAW CUT IN LOST TO SHAUL BE SAW CUT IN LOST TO SHAUL BE SAW CUT IN CLOSE AND SHOULD SHOUL SHAUL 4 EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED.
- 5. REMOVE MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE IN NEW CONSTRUCTION CAP ARQUIRED TO ACCOMMODATE IN NEW CONSTRUCTIONS OF THE SULLIDING OR EDUDACED TO PROPERTIES ACCORDING TO THE METHODS OR EQUIRED BY THE APPROPRIATE UTILITY AUTHORITY AND/OR AS INDICATED ON THE DRAWNING.
- 6 PATCHING IS REQUIRED WHERE DEMOLITION OF b. PALLIMING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS LEAVES HOLES, VOIDS, OR UNFINISHED CONDITIONS OF FINISHED WALLS, FLOORS, AND CEILINGS, FILL ALL EXISTING FLOOR AND WALL PENETRATIONS RESULTING FROM PIPING AND CONDUIT PERMOYAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINAL FLOOR OR WALL FINISH.
- 7. REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH, LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN REMOVED. GRIND EDCES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.
- 8. CLEAN AND PATCH ALL REMAINING WALL FLOOR AND CELLING SURFACES DAMACED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, OR IF TO REMAIN EXPOSED, TO A CONDITION COMPARABLE TO NEW CONSTRUCTION, THIS SHALL INCLUDE, BUT NOT BE LIMITED TO. TOOTHING IN NEW CONCRETE MASONRY TO REPLACE EXPOSED UNITS DAMACED BEYOND REPHAIR BY DEMOLITION, LEVELING (OR TAPÉRING) FLOOR SURFACE.

 BETWEEN EXISTING FLOOR RINSHED ALL OCCURRENCE WHERE BETWEEN EXISTING FLOOR SURFACE. WALLS ARE REMOVED: AND PATCHING SMOOTH AREAS OF EXPOSED CONCRETE MASONRY STRUCTURE DAMAGED BY REMOVAL OF ADJACENT CONSTRUCTION.
- 9. CONTRACTOR SHALL BE DESPONSIBLE FOR DEMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.
- 10. REMOVAL AND REINSTALLATION OF EXISTING CEILINGS MAY BE REQUIRED TO INSTALL NEW SYSTEMS. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.

KEYNOTES					
#	NOTE				
01.B	REMOVE (E) WALL				
01.H	REMOVE (E) STAIR				
O1.J	REMOVE (E) FURRED WALLS				
01.K	REFER TO STRUCTURAL DRAWINGS FOR				
	FLOOR DEMO				
01.L	REMOVE (E) DOOR & FRAME				
01.M	REMOVE (E) STORM WINDOW				
01.Q	REMOVE (E) HANDRAIL				
01.T	REMOVE & SALVAGE (E) GALLERY CARPET				
01.X	REMOVE & SALVAGE (E) PLYWOOD ART				
	PANELS				
01.Y	REMOVE, SALVAGE, STRIP PAINT, & PREP				
	FOR INSTALL (E) BASEBOARD (TYP ALL				
	WOOD BASE IN GALLERY)				



A4 GALLERY LEVEL DEMOLITION PLAN







401 LINDEN STREET, SUITE 2-221 FORT COLLINS, CO, 80524 T - 970.430.5220

CARNEGIE BUILDING RENOVATION

CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

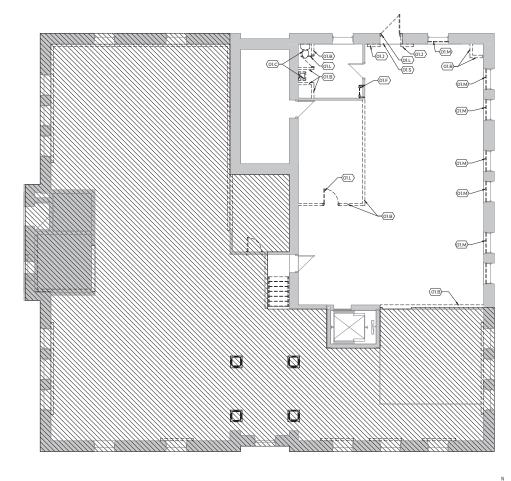
PROJECT #: 2118

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AD102 GALLERY LEVEL DEMOLITION PLAN

- 2. DRAWINGS INDICATE AN APPROXIMATION OF THE BUILDING CONSTRUCTION AND DIMENSIONS FOR BIDDING PUPPOSES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE IS THE ADV DERIFY ALL EXISTING CONDITIONS. INCLUDING, REQUIRED DRAWLITION OF THE BUILDING, SIT IS CONTROLLED CONSTRUCTION SCOPE OF WORK, ADDITIONALLY, THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING CONDITIONS WHICH MAY AFFECT THE WORK FOR THIS CONTROLL, IT IS THE RESPONSIBILITY OF THE CONTRACTOR THE DUE VERIFY ALL CONDITIONALS THE CONDITIONS WHICH MAY AFFECT THE WORK FOR THIS CONTROLL, IT IS THE RESPONSIBILITY OF THE CONTRACTOR THE DUE VERIFY ALL CONDITIONS THE PROPERTY AND THE CONTRIBUTION OF THE CONTRIBUTION OF THE CONTRIBUTION.
- 3. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT. SETTLEMENT OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADDAGENT FACILITIES TO BEMAIN. OF CONTRACTOR SHALL BE RESPONDISE FOR ALL METHODS OF THE CONTRACTOR SHALL BE RESPONDISE FOR ALL METHODS OF THE CONTRACTOR SHALL BE RESPONDISE FOR ALL METHODS OF THE CONTRACTOR OF THE SHILL BE AND AFTER DEMOLITION OF THE BUILDING ELEMENTS. INCLUDING AND ADDITIONAL BRACING NOT SPECIFICALLY INDICATE ON THE ATTACHED DRAWINGS, AS REQUIRED BY CONDITIONS IN THE FIELD.
- 4. EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR RETIRETY TO EXTENT INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTED WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW CUT AT LOCATIONS INDICATED. TO THE HEIGHT AND WIDTH INDICATED, AND SMOOTHED/PATCHED AS NECESSARY FOR RISEAL AND ON FRAMES. NEW LINTELS CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED ON THE DRAWINGS, OR IF NOT INDICATED ON THE DRAWINGS, OR IF NOT INDICATED.
- 5. REMOVE MECHANICAL ELECTRICAL AND PLUMBING RYTURES. EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION CAP AND/OR RECONNECT ANY UTILITIES SERVING OTHER PORTIONS OF THE BUILDING OR ADJACENT PROPERTIES ACCORDING TO THE WITHOUT SERVING OTHER PORTIONS OF THE SUILDING OR ADJACENT PROPERTIES ACCORDING TO THE WITHOUT SERVING THE APPROPRIATE UTILITY AUTHORITY AND/OR AS INDICATED ON THE DRAWNING.
- 6. PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL MECHANICAL ELECTRICAL AND STRUCTURAL SYSTEMS LEAVES HOLES, VOIDS, OR UNFINISHED CONDITIONS OF INISHED WALLS, FLOORS, AND CEILINGS, FILLAL EXISTING FLOOR AND WALL PENETRATIONS RESULTING FROM PIPING AND CONDUIT REMOVAL WITH NON-SHRINK CROUT, READY TO RECEIVE FINAL FLOOR OR WALL FINSH.
- 7. REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH, LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN PERMOVED, CRIND EDCES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.
- 8. CLEAN AND PATCH ALL REMAINING WALL FLOOR AND CELLING SURFACES DAMAGED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, OR FOR REMAINING WALL FLOOR SURFACE STATEMENT OF THE TORSE AND A CONDITION COMPAGED TO THE TORSE OF THE TORSE OF
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.
- 10. REMOVAL AND REINSTALLATION OF EXISTING CEILINGS MAY BE REQUIRED TO INSTALL NEW SYSTEMS. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.

KEYNOTES					
#	NOTE				
01.B	REMOVE (E) WALL				
01.C	REMOVE (E) PLUMBING FIXTURES				
01.F	REMOVE (E) REMOVE & SALVAGE (E) ATTIC				
	ACCESS LADDER				
O1.J	REMOVE (E) FURRED WALLS				
01.L	REMOVE (E) DOOR & FRAME				
01.M	REMOVE (E) STORM WINDOW				
01.S	REMOVE (E) WALL ABOVE DOOR				









401 LINDEN STREET, SUITE 2-221 FORT COLLINS, CO, 80524 T - 970,430,5220 www.auworkshop.co

CARNEGIE BUILDING RENOVATION

CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

PROJECT #: 2118 ISSUE DATE: 09/16/22

L DI O I

AD103
MEZZANINE LEVEL DEMOLITION PLAN

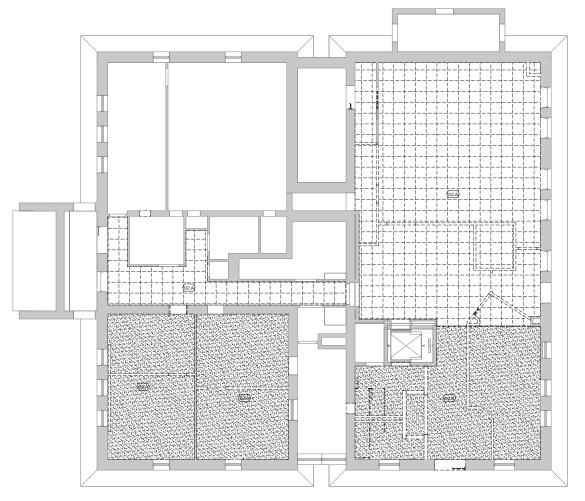
PERMIT SET

A4

A4 MEZZANINE LEVEL DEMOLITION PLAN

- RE: STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.
- 2. DRAWINGS INDICATE AN APPROXIMATION OF THE BUILDING CONSTRUCTION AND DIMENSIONS FOR BIDDING PURPOSES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS, INCLUDING REQUIRED DEMOLITION OF THE BUILDING A ITS CONTENTS, ACCOMMODATION OF DEMOLITION REMOVAL, AND NEW CONSTRUCTION SCOPE OF WORK ADDITIONALLY THESE DRAWINGS MAY THEY INCLUDE ALL EMISTING CONDITION TO THE CONTRACTOR TO THE THE RESPONSIBILITY OF THE CONTRACTOR TO THE THE VERIFY ALL CONDITIONS BEFORE BEGINNING CONSTRUCTION.
- 3. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO BE DEMOLISHED AND ADJACENT FACILITIES TO BE DEMOLISHED AND ADJACENT FAT STRUCTURES DURING, AND AFFED DEMOLITON OF THE EMILITING AND ADJACENT STRUCTURES DURING, AND AFFED DEMOLITON OF THE EMILITING INDICATED AND ADJACENT STRUCTURES INCLUDING ANY ADDITIONAL BRACING NOT SPECIFICAL INDICATED ON THE ATTACHED DRAWINGS, AS REQUIRED BY CONDITIONS IN THE FIELD.
- 4. EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIRETY TO EXTENT INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTED WITH WALLS TO REMAIN REMAINING WALLS TO BE PATCHED AND FINISHED SHALL BE SAY-CUT AT LOCATIONS IN DICATED. TO THE HEIGHT WAS AND THE WA
- 5. REMOVE MECHANICAL ELECTRICAL, AND PLUMBING FIXTURES. EQUIRMENT, AND DISTIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS PEQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CAP AND/OR PECONNECT ANY UTILITIES SERVING OTHER PORTIONS OF THE BUILDING OR DAJACENT PROPERTIES ACCORDING TO THE WITHOUT SERVING OTHER PORTIONS OF THE STATEMENT OF THE PORTION OF
- 6. PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL MECHANICAL ELECTRICAL AND STRUCTURAL SYSTEMS LEASH FOLES, VOIDS, OU INFINISHED CONDITIONS SYSTEMS LEASH FOLES, VOIDS, OUR INFINISHED CONDITIONS (IN FINISHED WALLS, FLOORS, AND CELLINGS, FILL ALL EXISTING FLOOR AND WALL PENETRATIONS ESSULTING FROM THE AND CONDUTI REMOVE WITH NOS-SHRING CROUT, READY TO RECEIVE FIRMAL PLOOR OR WALL FINISH.
- 7. REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH, LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN PEMOVED, CRIND EDCES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.
- 8. CLEAN AND PATCH ALL REMAINING WALL FLOOR AND CELLING SURFACES DAMAGED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, AO CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, THIS SHALL INCLUDE BUT NOT BE TO REW CONSTRUCTION. THIS SHALL INCLUDE BUT NOT BE REPLACE EXPOSED UNITS DAMACED BEYOND FERBIR BY DEMOLITION, LEVELING (OR TAPERING) FLOOR SURFACE BETWEEN EXITING FLOOR SURFACE SETWIEN EXPOSED UNITS DAMACHED AT LOCATIONS WHERE WALLS ARE REMOVED, AND PATCHING SMOOTH AREAS OF REMOVED, AND PATCHING SMOOTH AREAS OF REMOVED, AND PATCHING SMOOTH AREAS OF REMOVED. AND PATCHING SMOOTH AREAS OF REMOVED, AND PATCHING SMOOTH AREAS OF REMOVED. AND PATCHING SMOOTH AREAS OF REMOVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.
- 10. REMOVAL AND REINSTALLATION OF EXISTING CEILINGS MAY BE REQUIRED TO INSTALL NEW SYSTEMS. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.

KEYNOTES					
#	NOTE				
02.A	REMOVE (E) CEILING				



NO DESCRIPTION DATE





401 LINDEN STREET, SUITE 2-221 FORT COLLINS, CO, 80524 T - 970.430.5220

CARNEGIE BUILDING RENOVATION

CITY OF FORT COLLINS 200 Mathews Street Fort Collins. CO 80524

Fort Collins, CO 80524
PROJECT #: 2118

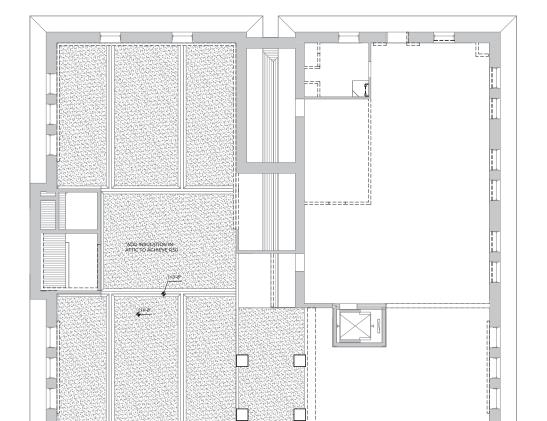
PROJECT #: 2118 ISSUE DATE: 09/16/22

AD141
OWER LEVEL DEMOLITION REFLECTED CEILING

PERMIT SET

A4 LOWER LEVEL DEMOLITION REFLECTED CEILING PLAN

- RE: STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.
- 2. DRAWINGS INDICATE AN APPROXIMATION OF THE BUILDING CONSTRUCTION AND DIMENSIONS FOR BIDDING PURPOSES IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE IST HAND VERIFY ALL EXISTING CONDITIONS, INCLUDING REQUIRED DEMOLITION OF THE BUILDING S ITS CONTENTS, ACCOMMODATION OF DEMOLITION OF BENDIALD, AND NEW CONSTRUCTION SCOPE WORK, ADDITIONALLY, THESE WHICH HAND APPEAR OF THE CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELD VERIFY ALL CONDITIONS BEFORE EECHNING CONSTRUCTION.
- 3. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PEVENT MOVEMENT. SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADDIACENT FACULTIES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS OF STABILIZATION OF THE EXISTING. AND ADJACKENT STRUCTURES DURING AND AFTER DEMOLITION OF THE BUILDING ELEMENTS, INCLUDING, ANY ADDITIONAL BEACHEN NOT SPECIFICALTY, INDICATED ON THE ATTACHED ORDAWINGS, AS REQUIRED BY CONDITIONS IN THE FELD.
- 4. EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIFETY TO EXTENT INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, EXISTING WALLS, GO REMOVED WALLS, TO BE REMOVED FOR STANDARD OF THE STANDARD SHALLS TO BE PATCHED AND FINISHED SMOOTH. NEW OPENINGS TO BE PATCHED AND FINISHED SMOOTH, SHOW OPENINGS TO BE UT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED, TO THE HEIGHT AND WIDTH IN MOLACED, AND SMOOTH SHOW THE STANDARD SHALL BY THE SHALL BE SAW-CUT AT LOCATIONS INDICATED, TO THE HEIGHT AND WIDTH SHALLED TO SUPPORT EXISTING WALL SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURE DRAWINGS.
- S. REMOVE MECHANICAL, ELECTRICAL, AND PLUMBING FOUNDERS, EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE FORM TO THE NEW CONSTRICTION, CAP AND/OR RECONNECT ANY UTILITIES SERVING OTHER PORTIONS OF THE BUILDING OR ADJACENT PROPERTIES ACCORDING TO THE METHODS REQUIRED BY THE APPROPRIATE UTILITY AUTHORITY AND/OR AS INDICATED ON THE DRAWINGS.
- 6. PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS LEAVES HOLES, VIOLO, OR UNINISHED CONDITIONS & FINISHED WALLS, FLOORS, AND CEILINGS. FILL ALL EXISTING FLOOR AND WALL PENTERATIONS RESULTION FROM PIPING AND CONDUIT REMOVAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINAL FLOOR OR WALL PRINSH.
- 7. REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH. LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN REMOVED, CRIND EDGES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.
- 8. CLEAN AND PATCH ALL REMAINING WALL FLOOR AND CEILING SURFACES DAMACED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, OR IF TO REMAIN EXPOSED IO A CONDITION OF MANABED IN THE CONTROL OF THE PATCH OF THE P
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.
- 10. REMOVAL AND REINSTALLATION OF EXISTING CEILINGS MAY BE REQUIRED TO INSTALL NEW SYSTEMS. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.



KEYNOTES

NO DESCRIPTION DATE

[au]workshop

PERMIT SET

CARNEGIE BUILDING
RENOVATION
CITY OF FORT COLLINS
200 Mathews Street
Fort Collins, CO 80524
PROJECT #: 2118
ISSUE DATE: 09/16/22

401 LINDEN STREET, SUITE 2-221 FORT COLLINS, CO, 80524 T - 970.430.5220

NOTE

OCCUPANCY OR USE UNIFORMLY DISTRIBUTED (PSF) CONCENTRATED LOAD (LBS) LIVE LOAD REDUC PUBLIC SPACES 100 2,000 NO	4. PLOUR LIVE LUNDS.			
	OCCUPANCY OR USE	UNIFORMLY DISTRIBUTED (PSF)	CONCENTRATED LOAD (LBS)	LIVE LOAD REDUCT)
		100	2,000	NO
CORRIDORS ABOVE FIRST FLOOR 80 2,000 (1,000 SCHOOLS) YES	CORRIDORS ABOVE FIRST FLOOR	80	2,000 (1,000 SCHOOLS)	YES

WIND: INTERIOR RENOVATION OF EXISTING BUILDING
 SEISMIC: INTERIOR RENOVATION OF EXISTING BUILDING

REINFORCED CONCRETE

1. DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. CONCRETE WORK SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".

3. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES.

						NO.		
			MAX		SLUMP,	CONTENT		
	EXPOSURE	fc, PSI	WICM	MUMIXAM	INCHES	PERCENT	CEMENT	ADMIXTURES /
INTENDED USE	CLASS	28 DAYS	RATIO	AGGREGATE	(+/- 1")	(+/- 1.5%)	TYPE	COMMENTS
FOOTINGS	F0-S0-W0-C1	3000	0.52	3/4" STONE	- 5	N/A	M	
INTERIOR SLAB ON GRADE	F0-S0-W0-C0	4000	0.45	3/4" STONE	4	NP	M	

 CONCRETE MIX TABLE NOTES:
 A SLUMP VALUES INDICATED ARE SUGGESTED BASED ON USE AND TYPICAL PLACEMENT METHODS SLOMP VALUES MOUTH LET AND SUGGESTED BRASED OF USE AND IT PETICAL PLACEMENT IMETHOUS. CONTRACTOR MAY DAULST SLUMP AS NECESSARY FOR FIELD CONDITIONS AND INSTALLATION METHOD USED PROVIDED REMAINING REQUIREMENTS ARE MET.

AIR CONTENT.

NP: AIR ENTRAINING ADMIXTURES NOT PERMITTED, ENTRAPPED AIR ONLY NA: NOT APPLICABLE. NO STRUCTURAL AIR CONTENT REQUIREMENTS

N. NOT PARCIAGE. NO STRUCTION, AR CONTENT REQUIREMENTS
 SHRAWEST STRUCK MERKE STRY AND ATTEMPER. AND CONTENT REQUIREMENTS
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WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT BARS SHOWN TO BE FIELD-BENT SHALL

REINFORMERS BAYES STANDE CONFERENT TO ASTIMATION, GROUDE BY, EXCEPT BARRS SHOWN TO BE PIELLIDERY BE ASTIMATOR, GRADE 60.

UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, LAP BARS PER THE CONCRETE LAP SPLICE SCHEDULE.

SUREDULE: AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE MATCHING CORNER BARS FOR EACH LAVER OF REINFORCEMENT

BARS FOR EACH LAYER OF REINFORCEMENT.
TRIM OPENINGS IN WALLS AND SLABS WITH (2) #5 FOR EACH LAYER OF REINFORCEMENT, FULLY DEVELOPED BY EXTENSION OR HOOK.

EATERS OF WEIGHT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON THE STRUCTURAL

DRAWINGS.

EXCEPT AS NOTED ON THE DRAWINGS. CONCRETE PROTECTION FOR REINFORCEMENT IN CAST, IN, PLACE. RETE SHALL BE AS FOLLOWS: CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3°

CAST AGAINST AND PREMIURATIVE EPROSED DEARTH 9

DOMEST DE DEPLOSE WASHINGT AND PREMIURATIVE EPROSED DEARTH 9

2. BEARS AND CROST WASHINGT AND SMALLER 1472

C. NOT DEPENDED TO MERCHING ON CONTACT WITH REQUIND
ERROR AND COLUMNS 11495 AND SMALLER 1472

ERROR AND COLUMNS 11495 AND SMALLER 1474

1.4 AND COS ERROR AND PROSE FOR BEAM AND COLUMN BEARWING PLATES SWALL BIT SMALLER 1474

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ARING PLATES SHALL BE PLACED WITH SETTING

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AND CATE OF THE PROVINCES AND STREET ACCORDANCE WITH THE REPLACEMENT OF THE STREET ACCORDANCE WITH THE REPLACEMENT OF THE PROVIDED OF THE PROVIDED OF THE STREET ACCORDANCE WITH THE REPLACEMENT OF THE STREET ACCORDANCE ACCORDA

THE RESPECTIVE ICC SEVALUATION REPORTS.
PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING

	CODE AND PE	K THE CURRENT ICC-ES REPORT (IBC	TABLE 1705.3 NOTE B).				
		CONCRETE PO	ST-INSTALLED ANCHORS				
	ANCHOR TYPE	DEWALT	HILTI	SIMPSON			
	EXPANSION	POWER-STUD+ SD2 (ICC ESR-2502)	KWIK BOLT TZ2 (ICC ESR-4266)	STRONG-BOLT 2 (ICC ESR-3037)			
	SCREW	SCREW-BOLT+ (ICC ESR-3889)	KWIK HUS-EZ (ICC ESR-3027)	TITEN HD (ICC ESR-2713)			
	ADHESIVE	AC200+ (ICC ESR-4027)	HIT HY-200 V3 (ICC ESR-4868)	AT-XP (UES ER-263)			
- 1	MASONRY POST-INSTALLED ANCHORS						
	ANCHOR TYPE	DEWALT	HILTI	SIMPSON			
	EXPANSION	POWER-STUD+ SD1 (ICC ESR-2966)	KWIK BOLT TZ2 (ICC ESR-4561)	WEDGE-ALL (ICC ESR-1396)			
	SCREW	SCREW-BOLT+ (ICC ESR-4042)	KWIK HUS-EZ (ICC ESR-3066)	TITEN HD (ICC ESR-1056)			

STRUCTURAL STEEL

STRUCTURAL S PAILS BUT IS, DETAILED IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE "STEEL CONSTRUCTION MANUAL" BY THE AISC. INSTALL BOLTS IN ACCORDANCE WITH AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING

MANUAL "BY THE MIC. INSTALL BOLTS IN ACCORDANCE WITH AGCS "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STEPACHTS BOLTS".

ALL BEAMS SHALL HAVE FILL DEPTH WEB STIFFENERS EACH SIDE OF WEBS ABOVE AND BELOW COLUMNS. ANCIDER BODS SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE ASIC DOCUMENTS LISTED ABOVE. THE BEAMS SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE ASIC DOCUMENTS LISTED ABOVE. THE AMERICAN WELDING SOCIETY (AWS) D1.1: STRUCTURAL WELDING CODE, AND THE RECOMMENDATIONS FOR USE OF WELD E70 ELECTRODES. WHERE NOT SPECIFICALLY NOTED, MINIMUM WELD SHALL BE 3/16" FILLET BY LENGTH OF

CONTACT EDGE.

GROUT BENEATH COLUMN BASE AND BEAM BEARING PLATES SHALL HAVE A MINIMUM 28 DAY, COMPRESSIVE
STRENGTH OF 7:500 PSI AND SHALL BE NON-SHRINK NON-METALLIC. AND TESTED IN ACCORDANCE WITH ASTM C1107.

STEEL STAIRS:

1. STAIRS SHALL BE DESIGNED, DETAILED, AND ERECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
WITH THE PROJECT SPECIFICATIONS
OF THE PROJECT SPECIFICATION OF THE PROJECT SP

AND THE "RECOMMERCED VOLUNTARY WINNING STANDARDS FOR RICE METAL STARS" IN HAMAN MAP 510.

HETH LETARS WANNEL, STARS SHALL BE ESCRIBED FAN AND COLLAITIONS SHALL BE SIGNED AND SEADED FOR AN DEADLESS THE STATE IN WINNING THE PROJECT S LOCATION. THE STAR DESIGNED SHALL BE CONTINUED AND STANDARD SHALL BE SHALL BE AND SHALL BE SHALL BE MADE WITH PRIVATE OWNER TO CONNECTIONS AND CONNECT

CONNECTIONS WHICH INDUCE TORSION ON THE PRIMARY STRUCTURAL FRAME ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED OTHERWISE:
INTERIOR STARS SHALL BE "APCHITECTURAL CLASS" AND SHALL BE PRE-ASSEMBLED STRUCTURAL STEEL WITH CONCRETE FILED TREADS AND CAGED RISERS SPANNING BETWEEN STRINGERS. DESIGN AND BETAILING OF STAIR COMPONENTS, INCLUDING STRINGERS, TREADS, RISERS, HEADERS, INTERMEDIATE LANDINGS, RAILINGS CONNECTIONS, AND ALL VERTICAL SUPPORTING ELEMENTS WITHIN THE DESIGNATED STAIR SHAFT SHALL BE

COMMEDITIONS, AND THE STAR SUPPLIER.

HE RESPONSIBILITY OF THE STAR SUPPLIER.

ANY REQUIRED FOUNDATION ELEMENTS (IF ANY). SHALL BE THE RESPONSIBILITY OF THE STAR SUPPLIER. USE

OF ANY EXISTING FOUNDATION ELEMENTS (INCLUDING FLOOR SLABS). SHALL BE SUBMITTED TO THE EOR FOR

DE NATE AND TIME PROVINCE.
STAIR SUPPLIER SHALL COORDINATE STAIR ASSEMBLIES AND DETAILS WITH ADJACENT FRAMING ELEMENTS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

SHUMMON IN THE STRUCTURAN, AND AND/INTECTURAL DRAWMOS.

REQUIRED STAR AND ANIALING DESCRIPTION LOADS.

A STARS MAST BE DESIGNED FOR THE FOLLOWING NON-CONCURRENT LIVE LOADS:

1. 100 POUNDS FER SIGNARE FOR OFT PSY!

2. 300 LB CONCENTRATED LOAD ON STAR TREAD APPLIED ON AN AREA OF 2 INCHES X. 2 INCHES.

I. HAMIDRAIL MOGUIRDRAWLS:

ASSESSMENT OF STATE OF ST

FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR ASTM B895 CLASS 50 (A490 BOLTS SHALL NOT BE HOT DIPPED GALVANIZED). STAINLESS STEEL FASTENERS AND HARDWARE MAY ALSO BE

USED.

ALL FIELD CUT OR DAMAGED SURFACES, FIELD WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS
AS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPAIRED WITH (2) COATS OF A 55% ZINC RICH PAINT
PER ASTIN A709 EXPERIENCED.

STRUCTURAL WOOD FRAMING:

TREATED IN ACCIDENANCE WITH ARM'S ISMANUSED OF NOT ME. TREATMENTS SHALL HAVE NO AMMONIA ACIDE AND SHALL BET HE POLLOWING USE CHITEGORY:

A. UC2 AT INTERIOR

B. UC3 AT LETBOR WITH NO GROUND CONTACT

C. UC8 AT EXTERIOR WITH CONTACT

C. UC8 AT EXTER FASTIMESS FOR USE WITH TREATED WOOD SHALL BE CORRECTION RESISTANT IN ACCORDANCE WITH SECTION 2014 85 (2014 16) 2014 16)

19. ALL ROW MIG STEEL PRODUCTS ATTACHED TO THE YEAR DILLIBERS BRULL BE FOR DIPPER DAK WINKEED IN ACCORDANCE BIT IN SIZE AND ALL DO SHOULD WERE THE WINKEED ON THE STEELT WAS ALL DO SHOULD WINKEED ON THE STEELT WAS ALL DO SHOULD WINKEED ON THE STEELT WAS DEFINITION. TO SHOULD WINKEED ON THE STEELT WAS ALL DO SHOULD WINKEED ON THE STEEL WINKEED WINKEED STEEL WINKEED WINKEED

EQUAL TO THE SWAN COMMETTER AT THE CHRINGE/CHES SECTION.

I CONNECTION LLOT FERMING SHALL CORNEY WITH THE SECTION CASE.

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DOWNINGS.

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ALL MATTHE LYMBERS EARLY SHALL ST OCCUPIES WITH HAS MARKED ST OFFI THAT HAS A SHALL ST OCCUPIES WITH SHALL SH

WOOD SHEATHING:

1. PLYWOOD AND ORIENTED STRAND BOARD (OSB) FLOOR SHALL BE APA RATED WITH STAMP INCLUDING APA

1. FIN YHOOG AND ORGERITED STRANG BOARD (1988) FLOOS SHALL BEARA ARTED WITH STAMP PALLUDING AND ATTEMPED AND ATTIME AND A

STRUCTURE ALL MATES

STRUCTURE ALL PROFILES OF STRUCTURAL COMPOSITE LUMBER SHALL SE IN CONFORMANCE WITH SECTION

2013 15 (2013 1 50 OF THE 2013 SEQ OF THE SIZE

2013 15 (2013 1 15 OF THE 2013 SEQ OF THE SIZE

2014 MANUAL FULL PROFILES OF STRUCTURE ALL PROFILES OF STRUCTURE ALL PROFILES

THE CONTRACTORS SHALL NOT CUT WOTCH, SECTION SHALL PROFILES TRUCTURE ALL PROFILES SHALL PROFILES

ANY SECTION SHALL PROFILES ALL PROFILES OF STRUCTURE SHALL PROFILES ALL PR

EN THE TOP TO SHARE THE STATE OF THE STATE O

STRUCTUMAL ENGINEER FOR APPROVAL.
JORES SHALL BE INSTALLED FOR THE MANUFACTURER'S RECOMMENDATIONS HOLES IN WEBS SHALL NOT
EXCEEDIMANIFECTURER'S PUBLISHED LIMIT CRITERIA.
MEMBER FORCES SHALL BE DETERMINED BY THE FABRICATOR. STRESSES SHALL NOT EXCEED THOSE ALLOWED
BY THE BIC. C. ON LIMITS FOR WOOD I, ICISTS AND OREN WEB LOISTS SHALL NOT EVICED THE FOLLOWING.

DEFLECTION LIMITS FOR WOUL IQUIS IS AND OF A TO DEFLECTION CRITERIA.

A ROOF LIVE LOAD = LLOSO

B. ROOF TOTAL LOAD = LLOSO

C. FLOOR LIVE LOAD = LUSSO

D. FLOOR TOTAL LOAD = LIZEO (1" MAXIMUM)

ENGINEER WILL BE RETURNED WITHOUT REVIEW.

4. FURNISH ELECTRONIC VERSION (PDF) OF SHOP AND ERECTION DRAWINGS TO THE STRUCTURAL ENGINEER FOR EVIEW PRIOR TO FABRICATION FOR:

A. CONCRETE MIX DESIGNS

B. CONCRETE REINFORCING STEEL

STRUCTURAL STEEL N A TIMELY MANNER TO PERMIT 10 WORKING I SUBMIT IN A TIMELY MANNER TO PENMI TO WORKING DAYS FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "REQUEST FOR PHONE IS IN WITHOUT UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, CHANGES MADE BY MEANS OF THE SHOP DRAWING SUBMITTUR BROTCESS RECOURT HELD DECONNIQUE FOR THE AREA TO THE PROPERTY OF THE AREA TO THE PROPERTY OF THE PR

FIELD VERPICATION OF EXISTING CONDITIONS

1. THE GENERAL CONTRACTOR SHULL THROUGHLY INSPECT AND SURVEY THE EXISTING STRUCTURE TO VERFY CONDITIONS THAN AFFECT THE VIOUR SHOWN ON THE DRAWNINGS.

2. THE GENERAL CONTRACTOR SHULL REPORT ANY VARIATIONS OR DISCREPANCES TO THE ARCHITECT AND STRUCTURAL CHARGES REPORTED PROCESSING.

STRUCTURE LIBECTION AND READING REQUIREMENTS

THE STRUCTURE OWING ELEMENTS AND RECORDS THE COMPLETED STRUCTURE WITH ELEMENTS IN
THE REPAIR POSITIONE REQUEST EXPROPRIED, COMPLETED AND RECORD AND RECORD AND REPAIR OF THE GENERAL
CONTINGENT ELEMEN SHOWN PREVIOUS ALL SIGNAL CONTINGENT ELEMEN SHOWN PREVIOUS BELOW PREVIOUS BE

ALL PROPREDIENT CONCENT THAN BY ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODES AND LOCAL ROPINANCES.

CODES AND LOCA CROMANCES

THE CERRISH CONTROLLED SERVICES OF CONSONATION OF ALL WORK INCLUDING LAYOUT AND
SERVICINE CONTROLLED SERVICES OF CONSONATION OF ALL WORK INCLUDING LAYOUT AND
SERVICINE CONTROLLED SERVICES OF CONSONATION OF ALL VIOLENCE OF THE WORK SHALL BE
MARKARITY SERVICES OF CONTROLLED SERVICES OF CONTROLLED FOR SERVICINE OF
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MARKARITY SERVICES OF CONTROLLED SERVICES OF CO

UNLESS OTHERWISE SPECIFICALS INSURANCE TO CONSTRUCTION.

THE GENERAL CONTRACTOR, IN THE PROPER SCULENCE, SHALL PERFORM OR SUPERVISE ALL WORK
THE GENERAL CONTRACTOR, IN THE PROPER STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN,
AND OTHERS DURING CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO TEMPORARY

AND CHIEFS THE PROPERTY OF THE BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION

34ET I VENICES MULTICATION TO CONTINUE AND A STATE OF THE ABOVE TH

DEFERRED SUBMITIALS:

1. PORTIONS OF THE STRUCTURE HAVE ELEMENTS OF PROPRIETARY DESIGN AND FABRICATION, WHICH SHALL BE

PORTIONS OF THE STRUCTURE PRIVE ELEMENTS OF PROVINCE LANCE DESIGNABLE PROPRIES.

SUBMITTED BY THE SUPPLIER FOR APPROVIAL FIRE ANAMAD OF CONTRACT.

THESE TERMS SHALL CONFORM TO THE LOAD, CAPACITY, SIZE, GEOMETRY, CONNECTION, AND SUPPORT

CRITERIA NOTEO ON THE STRUCTURAL DRAWINGS. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. FINAL SHOP DRAWING SUBMITTALS SHALL BE STAMPED AND SIGNED.

LETTERS OF CONSTRUCTION COMPULANCE

1. THE CENERAL CONTRACTOR SHALL DETERMINE FROM THE LOCAL BUILDING AUTHORITY, AT THE TIME THE
FROM THE STRUCTURAL PREMIETER
FROM THE STRUCTURAL PREMIETER.

THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ALL SUCH REQUIREMENTS IN WRITING PRIOR TO THE START OF CONSTRUCTION. TWO-DAY ADVANCE NOTICE SHALL BE GIVEN WHEN REQUESTING SITE VISITS NECESSARY AS THE BASIS FOR

SPECIAL INSPICTIONS - 2021

1. THE FOLLOWING SPECIAL INSPICTIONS AND TESTING SHALL BE EXPECIALED Y A DULIFIED DESCAL INSECTION OF THE CONCERN OF THE PROPERTY OF THE PROPERTY

1708.6 SOLE .
1708.6 CAST-IN-PLACE DEEP FOUNDATIONS .
SECTION 1708.12 SPECIAL INSPECTIONS FOR WIND RESISTANCE AND THE FOLLOWING SUB-

SECTIONS:
a. 1705.12 I STRUCTURAL WOOD
b. 1705.12 COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION
c. 1705.12 WIND DESISTING COMPONENTS
8. SECTION 1705.13 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE AND THE FOLLOWING SUB-

SECTIONS: a. 1705.13.1 STRUCTURAL STEEL

a. 1765. 11 STRUCTURAL STIELL
b. 1766. 12 STRUCTURAL WOOD
c. 1766. 13 STRUCTURAL WOOD
c. 1766. 13 ODUD-FORMED STEEL LIGHT-FRAME CONSTRUCTION
d. 1766. 13 DECEMBER STEEL
d. 1766. 13 DECEMBER STEEL
d. 1766. 13 DECEMBER STEEL
d. 1766. 14 DECEMBER STEEL
d. 1766. 14 DECEMBER STEEL
d. 1766. 14 STRUCTURAL TESTING FOR SEISING RESISTANCE AND THE FOLLOWING SUB

SECTION 1703.14 3 TRUCTURAL STEEL
b. 1705.14.1 STRUCTURAL STEEL
c. 1705.14.3 DESIGNATED SEISMIC SYSTEMS (SDC C, D, E, OR F)
c. 1705.14.3 ESSIMICALLY SIGUATED STRUCTURES

SECTION 1706 DESIGN STRENGTHS OF MATERIALS SECTION 1707 ALTERNATIVE TEST PROCEDURES

D. SECTION 1974 ALTERNATIVE TEST PROCEDURES E SECTION 1981 AND STALLOW TEST IN SECTION 1981 AND STALLOW TEST IN THE SECTION, IMPECTOR SHALL SEA ADJUNED PERSON WIND SHALL DEMONSTRATE COMPETENCE. TO THE SHARPACHTON OF THE SEALOW OFFICENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF CHITACHTON REPORTING FOR THE YEAR OF SECTION AND SECTION AND THE RESPONSIBILITY OF THE PROPERTY OF THE WORK THE SECTION OF THE PROPERTY OF THE PROPERTY OF THE SECTION CONCERNS AND SECTION OF THE WORK THE SECTION OF THE PROPERTY OF THE PROPERTY OF THE SECTION OCCURRENT.

 PER SECTION 1704.24 THE SPECIAL INSPECTOR SHALL FURNISH REGULAR REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER. PROGRESS REPORTS FOR CONTINUOUS INSPECTION SHALL BE FURNISHED. AND THE STRUCT LIGHT ENDINGER. PRODRESS REPORTS FOR CONTINUOUS INSPECTION SHALL BE FURNISH WEEKLY. INDIVIDUAL REPORTS OF PERIODIC. ROSPECTIONS SHALL BE FURNISHED WITHIN ONE WEEK OF INSPECTION DATES. THE REPORTS SHALL NOTE UNCORRECTED DEFICIENCES, CORRECTION OF PREVIOUS REPORTED DEFICIENCIES, AND CHANGES TO THE APPROVED CONSTRUCTION DOUBLINDS AUTHORIZED BY

S THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT WITHIN 10 DAYS OF THE FINAL SPECIAL INSPECTION STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE

CONTROLL SHAPE AND A STATE OF THE BL. WAS NOT IN CLUBARWAGE SHALL BE NOTION IN THE CONTROLL SHAPE AND A STATE OF THE CONTROL SH

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ISSUE DATE: 09/16/22 **S000**

CENEDAL NOTES PERMIT SET

STRUCTURAL DRAWING LIST SHEET TITLE SHEET NO IBC 2021 STATEMENT OF SPECIAL INSPECTION ABBREVIATION, SYMBOLS KEY & 3D SCHEMATIC VIEW LOWER LEVEL FOUNDATION PLAN GALLERY & MEZZANINE PLAN

au workshop **CARNEGIE BUILDING**

T - 970.430.5220

RENOVATION CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524 PROJECT #: 2118

SIEE	- OF LUIAL I	HOFLUI	ION (IBC 1705.2, 1705.12.3 & 1705.1		
	REQUIRED			PERIODIC TEST OR INSPECTION	
ITEM	QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	FREQUENCY	Infrequent
FABRICATORS			(IBC 1704 2.5 & 1705.11)		
In-plant Inspection	AWS/AISC-SSI ICC-SWSI		Required unless Fabricator is approved and follows procedures of 1704.2.5.1		
PRIOR TO WELDING	ILLUSTICI		(TABLE N5.4-1, AISC 360-16)		
Verify welding procedures (WPS) and consumable certificates	AWS-CWI ASNT	Continuous	(**************************************		
Material identification	AWS-CWI ASNT	Periodic	Verify type and grade of material.		
Welder identification	AWS-CWI ASNT	Periodic	A system shall be maintained by which a welder who has		
Fit-up groove welds	AWS-CWI ASNT	Periodic	welded a joint or member can be identified. Verify joint preparation, dimensions, cleanliness, tacking, and		
Fit-up groove welds of HSS joints	AWS-CWI ASNT	Periodic	verify joint preparation, dimensions, cleanliness, tacking, and backing. Verify joint preparation, dimensions, cleanliness, and tacking		
without backing Access holes	AWS-CWI ASNT	Periodic			
	AWS-CWI ASNT	Periodic Periodic	Verify configuration and finish.		
Fit-up of fillet welds	AWS-CWI ASNI	Penodic	Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location.		
DURING WELDING			(TABLE N5.4-2, AISC 360-16)		
Use of qualified welders	AWS-CWI ASNT	Periodic	Verify that welders are appropriately qualified.		
Control and handling of welding	AWS-CWI ASNT	Periodic	Verify packaging and exposure control.		
consumables					
Cracked tack welds	AWS-CWI ASNT	Periodic	Verify that welding does not occur over cracked tack welds.		
Environmental conditions	AWS-CWI ASNT	Periodic	Verify wind speed is within limits as well as precipitation and temperature.		
WPS followed	AWS-CWI ASNT	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type flow rate, preheat applied, interpass temperature maintained, and		
Welding techniques	AWS-CWI ASNT	Periodic	proper position. Verify interpass and final cleaning, each pass is within profile.		
			imitations, and quality of each pass. (TABLE N5.4-3, AISC 360-10)		
AFTER WELDING	AMP CHI ACT	Ossissés			
Welds deaned	AWS-CWI ASNT AWS-CWI ASNT	Periodic	Verify that welds have been properly cleaned.		
Size, length, and location of welds	AWS-CWI ASNT	Continuous			
Welds meet visual acceptance criteria Arc strikes	AWS-CWI ASNT	Continuous			
k-area	AWS-CWI ASNT	Continuous			
Weld access holes in heavy shapes	AWS-CWI ASNT	Continuous			
Backing & weld tabs removed	AWS-CWI ASNT	Continuous			
Repair activities	AWS-CWI ASNT	Continuous			
Document acceptance or rejection of	AWS-CWI ASNT	Continuous			
welded joint/member					
NONDESTRUCTIVE TESTING			(SECTION N5.5, AISC 360-10)		
CJP welds (Risk Cat. II)	AWS-CWI ASNT	Periodic	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and comer joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if > 5% of welds tested have		
CJP welds (Risk Cat. III or IV)	AWS-CWI ASNT	Continuous	unacceptable defects. A reduction in the rate of ultrasonic testing is allowed per		Yes
Access holes (flange > 2")	AWS-CWI ASNT	Continuous	Section N5.5e.		Yes
Welded joints subject to fatigue	AWS-CWI ASNT	Continuous			
PRIOR TO BOLTING			(TABLE N5.6-1, AISC 360-10)		
 Not required if only snug-tight joints are specified per Section N5.6(1) of 					
AISC 360-10. Certifications of fasteners	AWS/AISC-SSI	Continuous			
Fasteners marked	ICC-SWSI AWS/AISC-SSI	Periodic	Verify that fasteners have been marked in accordance with		
	ICC-SWSI		ASTM requirements.		
Proper fasteners for joint	AWS/AISC-SSI ICC-SWSI	Periodic	Verify grade, type, and bolt length if threads are excluded from the shear plane.		
Proper bolting procedure	AWS/AISC-SSI ICC-SWSI	Periodic	Verify proper procedure is used for the joint detail.		
Connecting elements	AWS/AISC-SSI ICC-SWSI	Periodic	Verify appropriate faying surface condition and hole preparation, if specified, meet requirements.		
Pre-installation verification testing	AWS/AISC-SSI ICC-SWSI	Periodic	Observe and document verification testing by installation personnel for fastener assemblies and methods used.		
Proper storage	AWS/AISC-SSI	Periodic	Verify proper storage of bolts, nuts, washers, and other		
DURING BOLTING	ICC-SWSI		fastener components. (TABLE N5.6-2, AISC 360-16)		
 Not required if only snug-light joints are specified per Section NS.6(1) of AISC 360-16. 					
 Not required for pretensioned joints 					
using turn of the nut method with match-marking, direct tension indicators, or twist-off type tension control method per Section NS.6(2) of AISC 380-16.					
per Section N5.6(2) of AISC 360-16. Fastener assemblies	AWS/AISC-SSI	Periodic	Verify that fastener assemblies are of suitable condition,		
Snug-tight prior to pretensioning	AWS/AISC-SSI	Periodic	paced in all holes, and washers are positioned as required. Verify that joints are brought to snug-tight condition prior to		
Fastener component	AWS/AISC-SSI	Periodic	pretensioning operation. Verify that fastener component is not turned by wrench		
Pretensioned fasteners	AWS/AISC-SSI ICC-SWSI	Periodic	prevented from rotating. Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the		
AFTER BOLTING	10001101		most rigid point toward the free edges. (TABLE N5.6-3, AISC 380-16)		
Document acceptance or rejection of	AWS/AISC-SSI	Continuous	[[PARKE 1600-3, PESC 300-10]		
bolted connections	ICC-SWSI	Communities	I	l	1

CONCRETE SPECIAL INSPECTION (IBC 1705.3 & 1705.12.1)						
ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	CONC	
Reinforcing steel	ACI-CCI ICC-RCSI	Periodic	Verify prior to placing connecte that reinforcing is of specified byte, grade and size that it is the or oll, dirt and nut; this is located and spaced properly, that hooks, bends, ites, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions andire evaluation report.			
Prestressing tendons	IOC-PCSI	Periodic	Verify prior to placing concrete that tendons are of specified type, grade and size; that they are located and speced properly, and that anchorages and supplemental reinforcement are placed correctly.		Yes	
Welding of reinforcing steel	AWS-CWI	Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.			
Cast-in bolts & embeds	ACI-CCI ICC-RCSI	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.			
Post-installed anchors or dowels	ACI-CCI ICC-RCSI	Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved IOC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.			
Use of required mix design	ACI-CCI ICC-RCSI	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4; and IBC 1904.1, 1904.2, 1908.2, 1908.3.			
Concrete sampling for strength tests, slump, air content, and temperature	ACI-CFTT ACI-SIT	Continuous				

	WOOD	SPECIA	L INSPECTION (IBC 1705.5)		
птем	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	WOOD Infrequent
Fabricator Certification/Quality Control Procedures		Periodic	Inspect shop fabrication process and quality control procedures of wood structural elements and assemblies in accordance with Section 1704.2.5.		
Material Grading		Periodic	Verify grade or certificate of inspection of sawn lumber.		
Connections		Periodic	Inspection of wood / wood connection of elements.		
Lateral Connections		Continuous	Inspection of lateral connections (e.g. hold downs and straps).		
Framing Details		Continuous	Verify that framing details comply with construction documents or approved submittals.		
Wood trusses spanning > 60-feet		Periodic	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package.		Yes
Permanent Truss Bracing		Periodic	Verify installation of permanent truss bracing in accordance with construction documents and approved truss package.		
Roof and Floor Diaphragm Systems			(IBC 1705.12.1 & 1705.13.2)		Yes
Member Size and Connection		Periodic	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans.		No
Field Gluing		Continuous	Inspection during field gluing of elements of the main wind force resisting system.		Yes
Field Fastening		Periodic	Inspection during field nailing, bolting, anchoring and other fastening of wood diaphragms where sheathing fastener spacing is 4" or less.		Yes
Collectors, Drag Struts and Boundary Elements		Periodic	Inspection of collectors, drag struts and boundary elements.		Yes
Vertical Wind-Force-Resisting Systems, including Walls			(IBC 1705.12.1 & 1705.13.2)		Yes
Member Size and Connection		Periodic	Verify thickness and grade of sheathing, size of framing members at panel edges, nall/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans.		No
Field Fastening		Periodic	Inspection during field nailing, bolting, anchoring and other fastening of wood shear walls where sheathing fastener spacing is 4" or less.		Yes
Hold-downs		Periodic	Inspection of nailing, bolting, anchoring and other fastening of hold-downs.		Yes

STATEMENT OF SPECIAL INSPECTIONS

This Statement of Special inspections is submitted as a condition for permit incurrors in accordance with the Special Inspection and Shuchtrall Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the dentity of other approved approxise to be retained for conducing these inspections and tests. This Statement of Special Inspections executes the Rectal Respectives recoverings the following disciplines:

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registeric Design Professional in Reprossible Change. Discovered discrepances shall be brought to the remodate statement of the Contractor of Lord Contractor of Lord Contractor, and contractor of Lord Contractor Office of Lord Cont

e inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or boortiractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to immension work.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.
Interim Report Frequency: Within 48 hours of inspection, unless indicated otherwise.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Namber on the Schedule.

PEISE Structural Engineer – a licensed SE or PE specializing in the design of building structures
PEIGE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT Engineer-1 Training – a gro

American Concrete Institute (ACI) Certification ACI-CETT Concrete Field Testing Technician – Grade 1 ACI-CCI Concrete Construction Inspector ACI-LTT Laboratory Testing Technician – Grade 1 & 2 ACI-STT Strength Testing Technician

ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWICertified Welding Inspector

AWS-IASC-SSICertified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification ASNT Non-Destructive Testing Technician – Level II or III

International Code Council (ICC) Certification ICC-SMSIStructural Masonry Special Inspector ICC-SWSI Structural Steel and Welding Special Inspector

ICC-SFSI Spray-Applied Fireproofing Special Inspector ICC-PCSI Prestressed Concrete Special Inspector ICC-RCSI Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)
NICET.CT Concrete Technolon – Levels I, II, III & W
NICET.ST Solts Technolon – Levels I, II, III & W
NICET.ST Solts Technolon – Levels I, II, III & IV

Exterior Design Institute (EDI) Certification EDI-EIFS EIFS Third Party Inspector

Quality Assurance Plans

INTERIOR RENOVATION OF EXISTING BUILDING - NOT REQUIRED

Statement of Responsibility
Each contractor responsible for the construction or fabrication of a system or component designated above must submit a
Statement of Responsibility.

Prepared by:

EOR NAME / Signature Date

Signature Date

Building Official's Acceptance:

Signature Date

SCHEDULE OF INSPECTION AND TESTING AGENCIES						
SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS, TELEPHONE, E-MAIL				
Special Inspection Coordinator	TBD					
Inspector	TBD					
Inspector	TBD					
Testing Agency	TBD					
Testing Agency	TBD					
Continuous	TBD					



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CARNEGIE BUILDING RENOVATION

CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524 PROJECT #: 2118

ISSUE DATE: 09/16/22

S001

IBC 2021 STATEMENT OF SPECIAL INSPECTION

1	BEAU VERBICATION: ALL DIMENSIONES AND CONCINONS SHALL BE FIELD VERBILD BY CONTINUENTS FROM THE PROPERTY ONE DEFER THAN THOSE SHOWN ON DRAWNINGS, NOTEY FACHTET AND DIMENSE NOTEY APOSTETE AND REMORES ONE PROSESS ARE SHOWN ON DRAWNINGS, NOTEY FACHTET AND DIMENSE NOTEY APOSTETE AND REMORES ONE PROSESS ARE CONTINUED TO ALL DIMENSION OF THE PROSESS ARE CONTINUED TO ALL DIMENSION OF THE PROSESS ARE CONTINUED TO ALL DIMENSION OF THE PROPERTY OF ALL DIM OBSERVATION.
3D SCHEMATIC VIEW	

			ABBREVIA	11011010			
R I	ON CENTER SPACING	DWG	DRAWING	LGS	LIGHT GAGE STEEL		
(E)	EXISTING	DWL	DOWEL	LL	LIVE LOAD	REINE	REINFORCE, -ED, -ING
N)	NEW	EA	EACH	LLH	LONG LEG HORIZONTAL	REQ	REQUIRED
R)	REMOVE	ECC	ECCENTRIC	LLV	LONG LEG VERTICAL	REQMT	REQUIREMENT
AB	ANCHOR ROD (BOLT)	E-E	END TO END	LOC	LOCATION	RET	RETAINING
ADDL	ADDITIONAL	EF	EACH FACE	LP	LOW POINT	RM	ROOM
ADJ	ADJUSTABLE	EJ	EXPANSION JOINT	LSL	LAMINATED STRAND LUMBER (GENERIC TERM)	RMO	ROUGH MASONRY OPENING
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	EL	ELEVATION	LT	LIGHT	RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC, ELECTRICAL	LVL	LAMINATED VENEER LUMBER (GENERIC TERM)	SC	SLIP-CRITICAL
ALT	ALTERNATE	EMBED	EMBEDMENT	MACH	MACHINE	SCH	SCHEDULE
AMT	AMOUNT	ENGR FOR	ENGINEER ENGINEER OF RECORD	MASY	MASONRY	SDST	SELF-DRILLING/ SELF-TAPPING
ANCH	ANCHOR ANCHORAGE	EQ	EQUAL	MATL	MATERIAL	SECT	SECTION
PPROX	APPROXIMATE	EQUIP	EQUIPMENT	MAX	MAXIMUM	SF	SQUARE FEET, SUB-FLOOR
ARCH	ARCHITECT JURAN	FOUN	FOLIVALENT	MB	MACHINE BOLT	SHT	SHEET
ATR	ALL THREAD ROD	ES	EACH SIDE	MECH	MECHANICAL	SHTG	SHEATHING
AVG	AVERAGE	EST	ESTIMATE	MEZZ	MEZZANINE	SIM	SIMILAR
RC.	BOTTOM OF CONCRETE	F.W	EAST TO WEST	MER	MANUFACTURE, ER. ED	SIH	SHORT LEG HORIZONTAL
BL	BRICK LEDGE	EWC.	EXCAVATE	MIN	MINIMUM	SLV	SHORT LEG VERTICAL
BLK	BLOCK	EXP	EXPANSION	ML	MICROLLAM (TRUS-JOIST BRAND LVL), MASONRY LINTEL	SOG	SLAB ON GRADE
RIKG	RI OCKING	EXT	EXTERIOR	MO	MASONRY OPENING	CD	SPACES SPACED
DM	REAM	FD	FLOOR DRAIN	MTI	METAL	SPEC	SPECIFICATIONS
BOT	ROTTOM	FDN	FOUNDATION	NF	NEAR FACE	SO	SOLIARE
RRG	REARING	FE					
			FINISHED FLOOR, FAR FACE		NOT IN CONTRACT	SSR	SHEAR STUD RAIL
3W	BOTTOM OF WALL	F-F	FACE TO FACE	NS	NEAR SIDE	ST	SNUG-TIGHT
CB	COUNTERBORE	FIG	FIGURE	N-S	NORTH TO SOUTH	STD	STANDARD
CF	CUBIC FOOT	FL	FLUSH	NTS	NOT TO SCALE	STIFF	STIFFENER
CFS	COLD-FORMED STEEL	FLG	FLANGE	OCJ	OSHA COLUMN JOIST	STL	STEEL
CG	CENTER OF GRAVITY	FLR	FL00R	OD	OUTSIDE DIAMETER		STRUCTURE, -AL
CIP	CAST-IN-PLACE	FO	FACE OF	OF	OUTSIDE FACE	SUPT	SUPPORT
CJ	CONSTRUCTION JOINT, CONTROL JOINT	FP	FULL PENETRATION	ОН	OPPOSITE HAND	SY	SQUARE YARD
CJP	COMPLETE JOINT PENETRATION	FS	FOOTING STEP, FAR SIDE	OPNG	OPENING	SYM	SYMMETRICAL
CL	CENTER LINE	FTG	FOOTING	OPP	OPPOSITE	T&B	TOP AND BOTTOM
CLG	CEILING	GA	GAGE, GAUGE	OSB	ORIENTED STRAND BOARD	T&G	TONGUE AND GROOVE
CLR	CLEAR	GALV	GALVANIZED	PAF	POWDER ACTUATED FASTENER	TB	TOP OF BEAM
CM	CONSTRUCTION MANAGER, -MENT	GC	GENERAL CONTRACTOR	PC	PRECAST	TCA	TOP OF CONCRETE TORQUE-CONTROLLED
CMU	CONCRETE MASONRY UNIT	GEN	GENERAL	PCF	POUNDS PER CUBIC FOOT		ANCHOR
COL	COLUMN	GL	GLUED LAMINATED, GLULAW		PRE-ENGINEERED	TD	TOP OF DECK
COM	COMMON	GND	GROUND	PEN	PENETRATION	THD	THREAD
COMB	COMBINATION	GR	GRADE	PERP	PERPENDICULAR	THK	THICK, -NESS
CONC	CONCRETE	GT	GIRDER TRUSS	PJP	PARTIAL JOINT PENETRATION	TJ	TOP OF JOIST
CONN	CONNECTION	GYP BD	GYPSUM BOARD	PL	PLATE	TL	TOTAL LOAD
CONT	CONTINUOUS, CONTINUE	HAS	HEADED ANCHOR STUD	PLF	POUND PER LINEAR FOOT	TPG	TOPPING
COORD	COORDINATE, COORDINATION	HDG	HOT-DIP GALVANIZED	PNL	PANEL	TRANS	TRANSVERSE
CS	COUNTERSINK	HDR	HEADER	PP	PANEL POINT	TW	TOP OF WALL
CTR	CENTER	HORIZ	HORIZONTAL	PS	PRESTRESSED	TYP	TYPICAL
CY	CUBIC YARD	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT	ULT	ULTIMATE
DAB	DEFORMED ANCHOR BAR	HT	HEIGHT	PSI	POUNDS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWIS
DET	DETAIL	ID	INSIDE DIAMETER	PSL	PARALLEL STRAND LUMBER (GENERIC TERM)	VERT	VERTICAL
DEV	DEVELOP	IF	INSIDE FACE	PT	POST TENSIONED, PRESSURE TREATED	VIF	VERIFY IN FIELD
DIAG	DIAGONAL	INT	INTERIOR, INTERMEDIATE	PTN	PARTITION	WP	WORK POINT
NM	DIMENSION	IT	INVERTED TEE	PWD	PLYWOOD	WT	WEIGHT
N N	DEAD LOAD	JB.	JOIST REARING	OTY	CHANTITY	WWF	WEIGHT WIRE FARRIC
N	DOWN	JST	JOIST	R	RADIUS	XS	EXTRA STRONG
NP P	DRILLED PIER	JT	JOINT	RF	REFERENCE, REFER TO	XSECT	CROSS SECTION
OT.	DOUBLE TEE	K	KIP (1.000 LBS)	RECT	RECTANGLE	XXS	DOUBLE EXTRA STRONG

		-			_		
_	DIRECTION OF DECK SPAN	[DOOL-X]		TOP OF CONCRETE OR MASONRY ELEVATION TOP OF BEAM ELEVATION		XXXV:-X	TOP OF CONCRETE OR MASONRY ELEVATION STEP TOP OF WALL
(GRID)	GRID DESIGNATION						
A	REVISION		JB XXX:-X	JOIST BEARING ELEVATION BRICK LEDGE ELEVATION TOP OF FOOTING ELEVATION			
	INDICATES STRUCTURAL ELEVATION	ľ	— BL XXX'-X			BL XXX'-X	BRICK LEDGE ELEVATION
SWx	SHEAR WALL	1				(XXX-X	TOP OF FOOTING ELEVATION
^	L	1	(XXX-X)			•	
4	SHORING	● XXX-X		TOP OF FLOOR ELEVATION			WOOD BEARING WALL
mm	STEP IN FLOOR ELEVATION	Т	/ CONT/ C	COLUMN CONTINUOUS FROM LEVEL BELOW	2	A .	WOOD SHEAR WALL
XXXXXI	CMU (CONCRETE MASONRY UNIT)	TIONS	CXX			B .	COLUMN ABOVE
2000	-	SIGNA	Б	COLUMN STARTING AT THIS LEVEL		B B	COLUMN BELOW
	BRICK	JANDE	ſſ ^B	COLUMN STOPPING BELOW THIS LEVEL, SEE FRAMING PLAN AT NEXT LOWER LEVEL			COLUMN OR OTHER ELEMENT
	CIP CONCRETE	BULDING COLUMN DESIGNATIONS	CXX STUB	COLUMN STARTING AND ENDING AT THIS LEVEL OF FRAMING	BUILDING COLUMN DESIGNATIONS	D CO	BELOW SEE SCHEDULES & NOTES Cx = COLUMN
11.000	PRECAST CONCRETE	BULC	CXX	COLUMN CONNECTING A LOWER BEAM TO A HIGHER BEAM AT THIS	NDESIG	Titos	BPx = BASE PLATE
9.00	EXISTING CONCRETE	H	(B)	LEVEL OF FRAMING INDICATES BRACED BAY MARK	MINOC	CONT	COLUMN CONTINUOUS FROM LEVEL BELO
	EARTH	9	(X)	INDICATES BRACED BAY ELEVATION	ULDING	BB *	"X" NUMBER OF KING STUDS BELOW "Y" NUMBER OF TRIMMER STUDS BELOW
FXX	ISOLATED SPREAD FOOTING MARK	- 9	13	INDICATES BRACED MEMBER (ON PLAN)	-	WPXY	"WP" = WOOD POST "X" = NUMBER OF STUDS
FXX	SPREAD FOOTING MARK	SYMBOLS	G.			88	"Y" = NOMINAL STUD DIMENSION
✓ STEP	STEP IN BOTTOM OF WALLIGRADE BEAM	BAYSW	n	INDICATES CONFIGURATION OF INVERTED CHEVRON-TYPE BRACED BAY WITH HSS DIAGONAL BRACES		LIVIN BEE	"LVL" = LAMINATED VENEER LUMBER "X" = NUMBER OF PLY'S "Y" = WIDTH OF LVL
XX:12	ROOF SLOPE	BRACED/FRAME BAY	N	INDICATES CONFIGURATION OF SINGLE DIAGONAL BRACED BAY WITH		□• HDx	HOLDOWN
SLOPE	DIRECTION OF SLOPE (DOWN)	78	2.1.31	HSS DIAGONAL BRACE INDICATES RIGID (MOMENT) FRAME WITH FULL PENETRATION WELDED BEAM FLANGE TO COLUMN CONNECTIONS		1500	
DN UP	STAIR OR RAMP DIRECTION	18	RE				WOOD HEADER WOOD JOIST OR BEAM SUPPORTED BY METAL
401	FULLY WELDED MOMENT FRAME CONNECTION	1	NP.			4	
_⊲∘⊳	CANTILEVER MOMENT CONNECTION		X	INDICATES RIGID (MOMENT) FRAME ELEVATION WI FULL PENETRATION WELDED BEAM FLANGE TO COLUMN CONNECTIONS			HANGER WOOD JOIST CONTINUOUS OVER
4	LOCATION OF BEND IN BENT BEAM		-	INDICATES BRACED BAY OR FRAMED BAY COLUMN BASE	8		
<0>	NUMBER OF HEADED ANCHOR STUDS				1	-	INTERMEDIATE SUPPORT



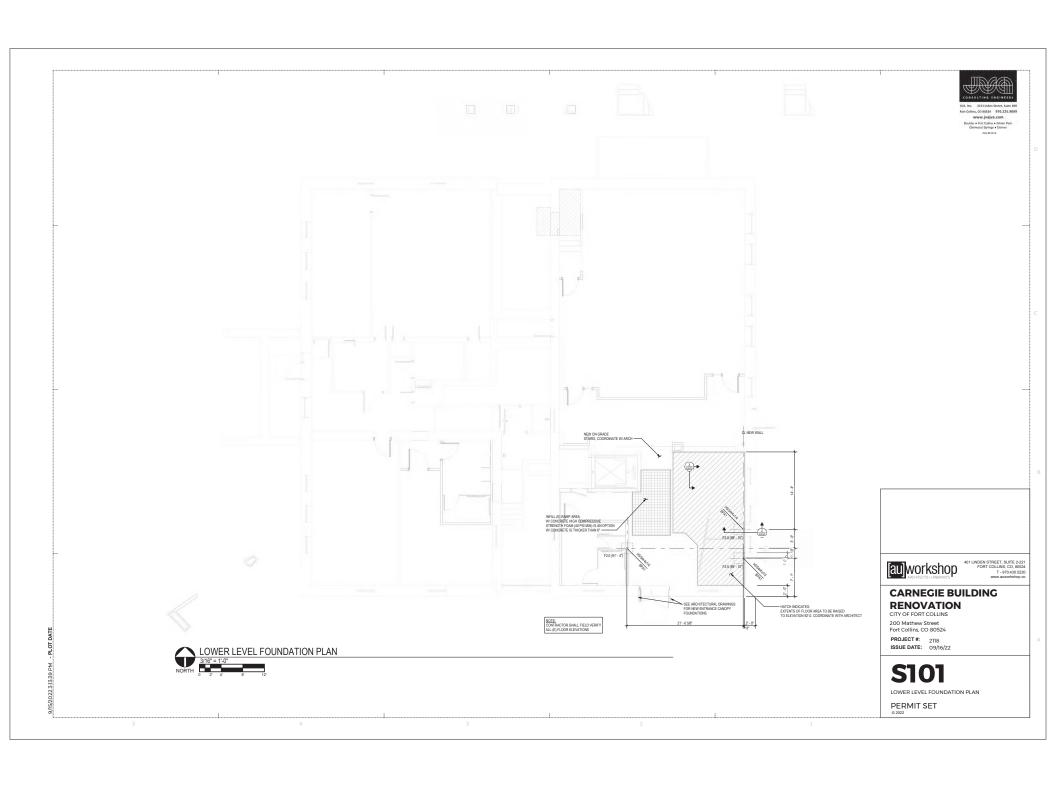


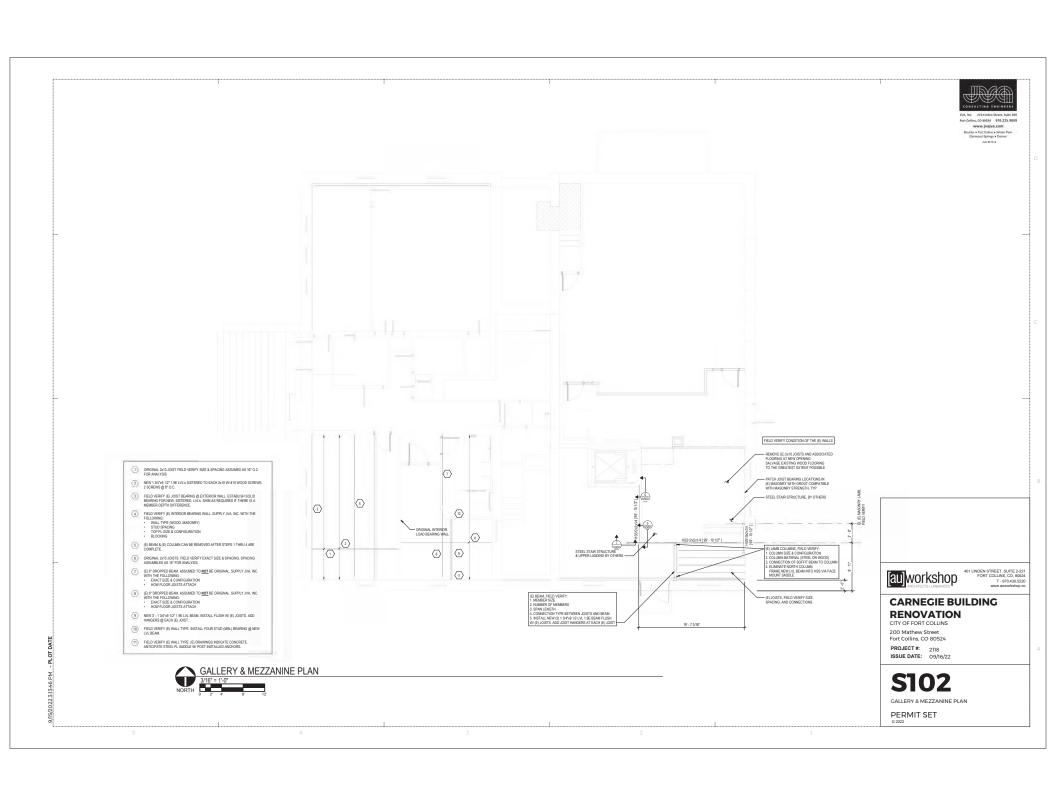
CARNEGIE BUILDING RENOVATION CITY OF FORT COLLINS

200 Mathew Street Fort Collins, CO 80524

PROJECT #: 2118 ISSUE DATE: 09/16/22

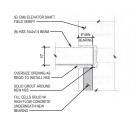
\$002 ABBREVIATION, SYMBOLS KEY & 3D SCHEMATIC

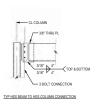








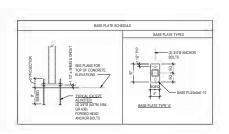


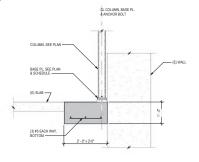


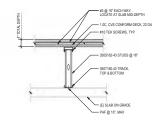


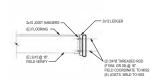












1 BASEPLATE SCHEDULE NO SCALE







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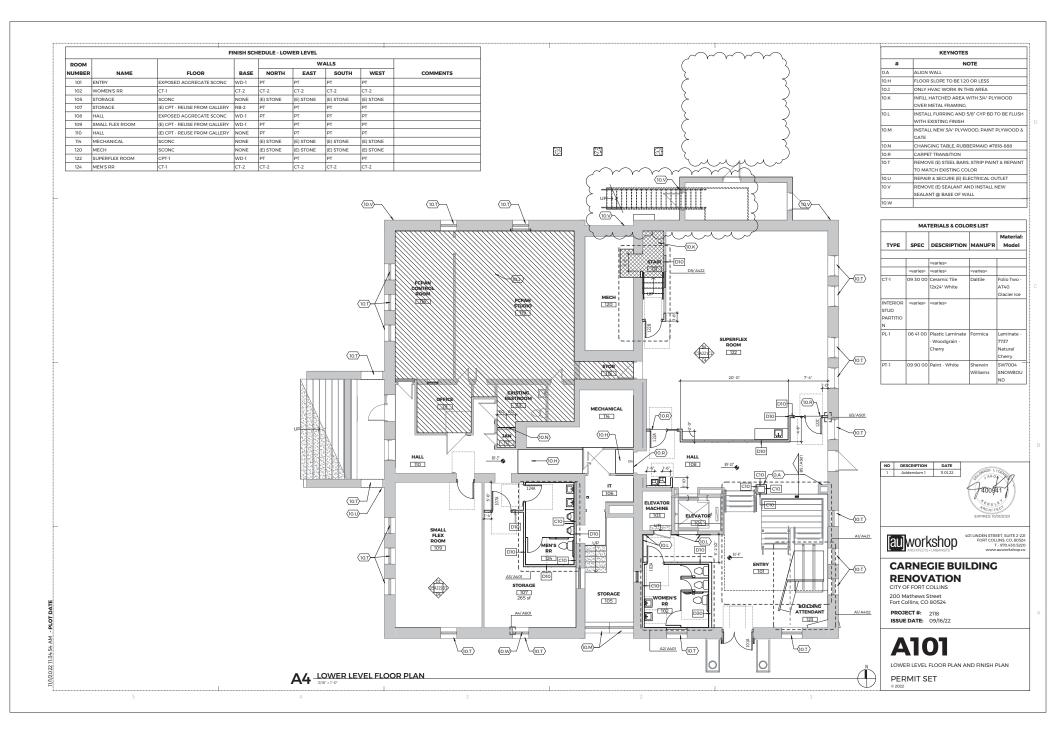
CARNEGIE BUILDING RENOVATION

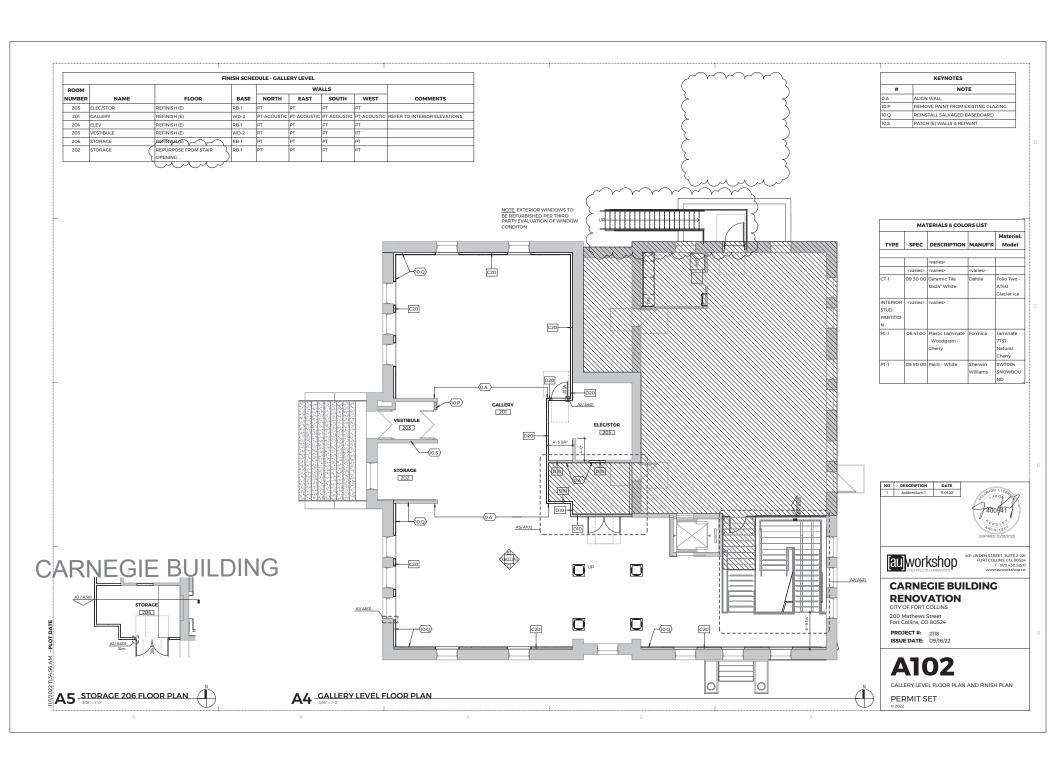
CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524

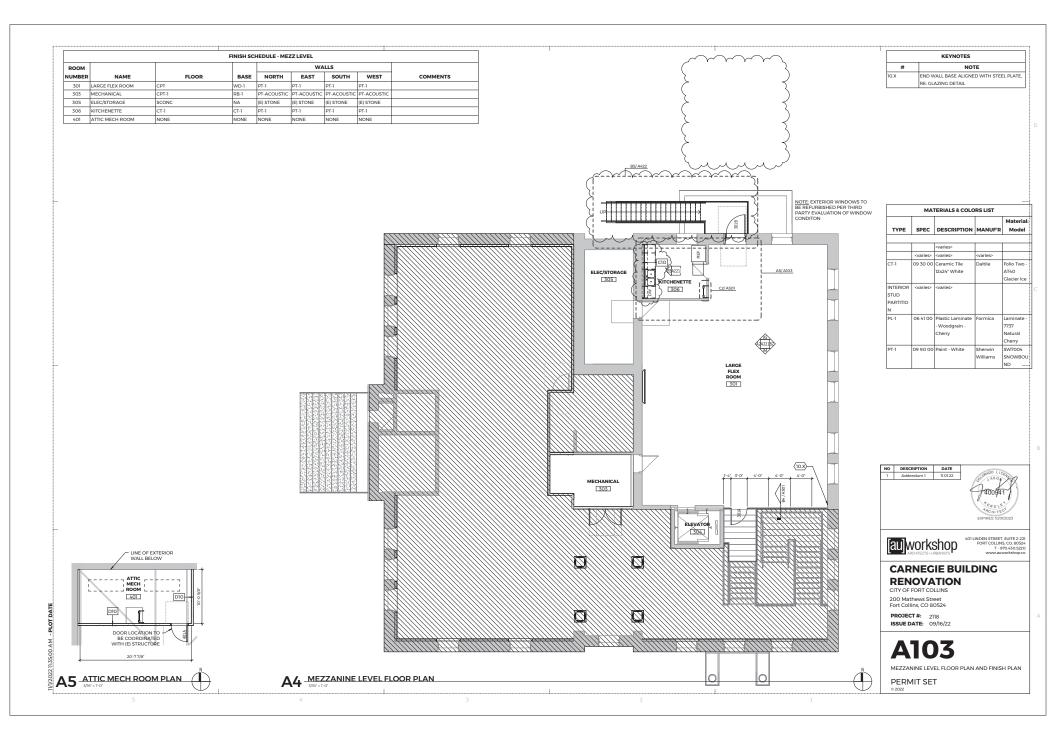
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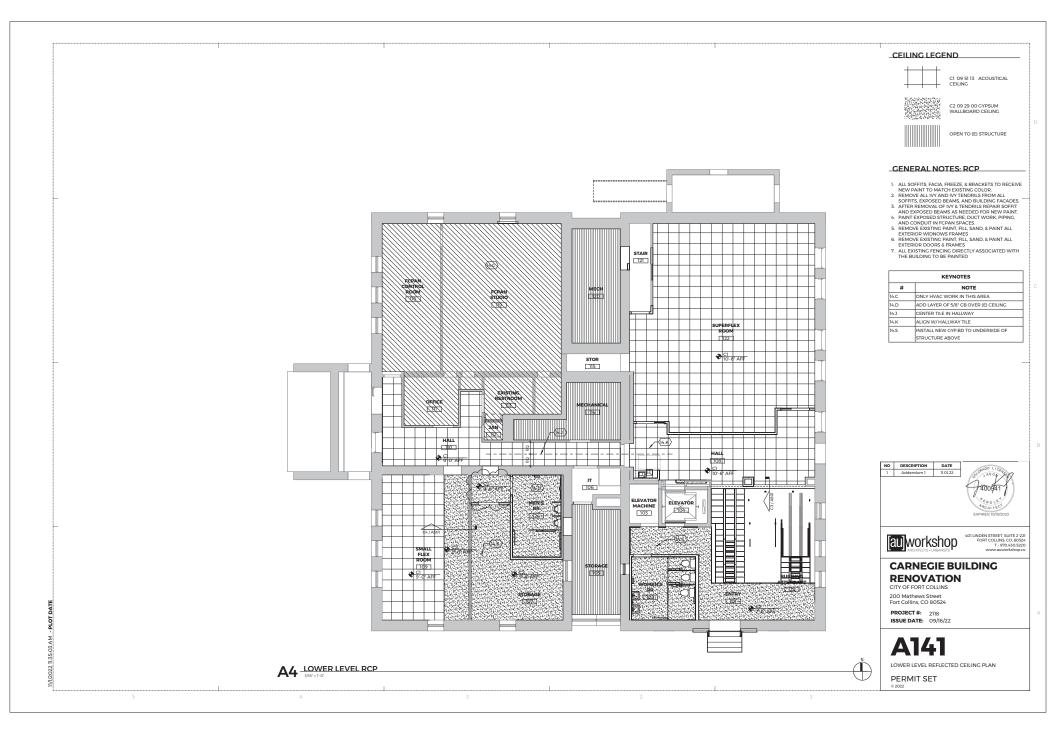
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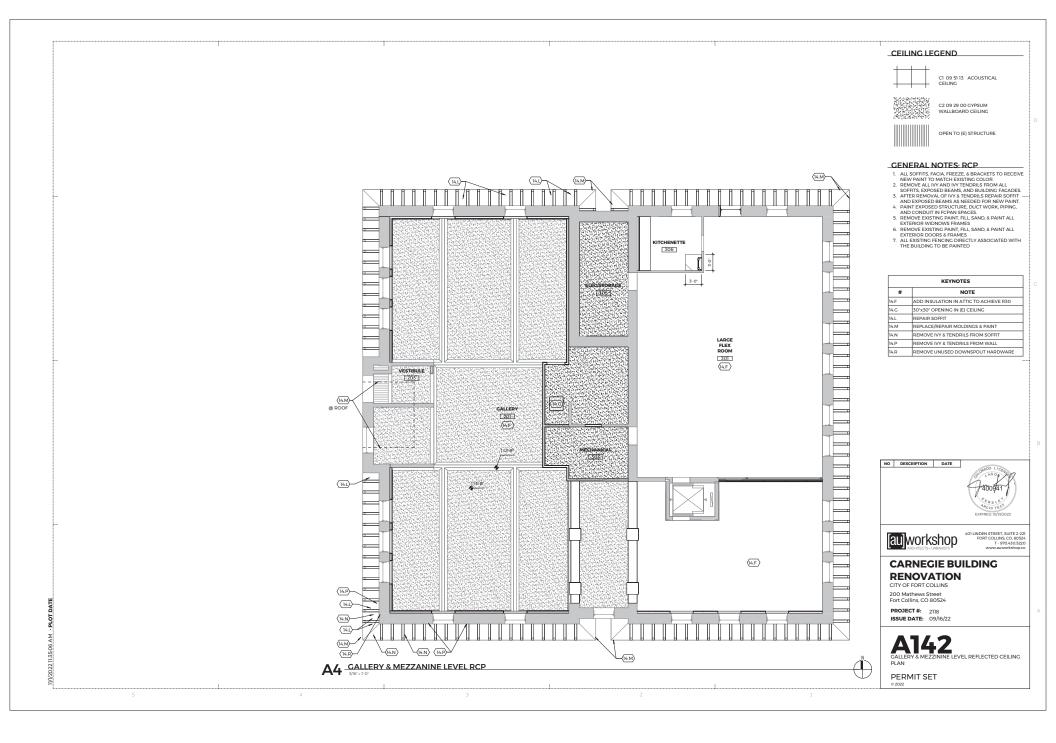
SECTIONS

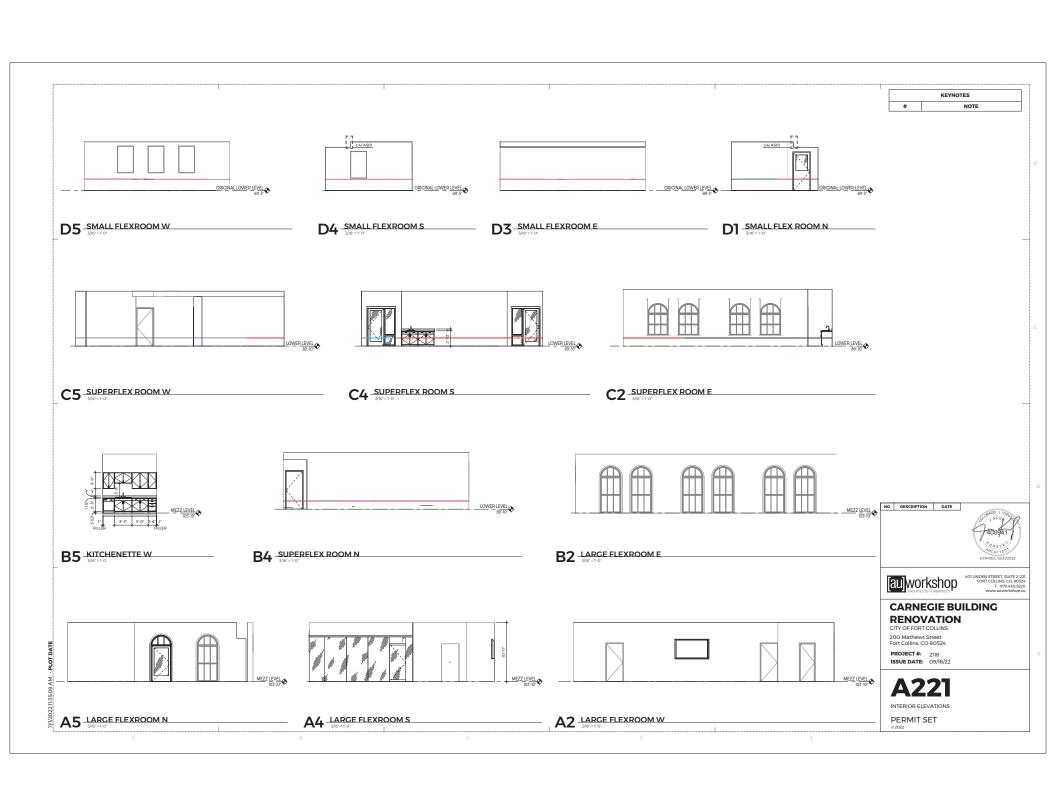


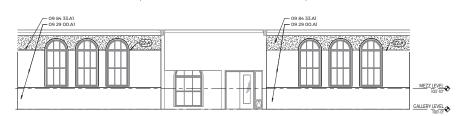






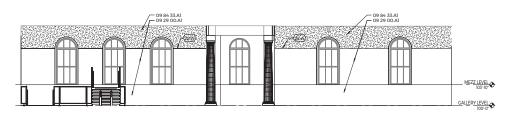




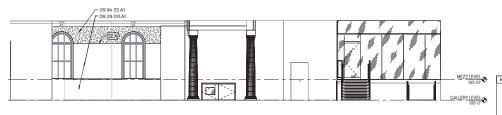


KEYNOTES						
#	NOTE					
09 29 00.A1	1/2" GYPSUM WALLBOARD					
09 84 33.A1	FABRIC-STRETCHED ACOUSTIC WALL					
22.A	ALIGN W/B.O. ARCH WINDOW					

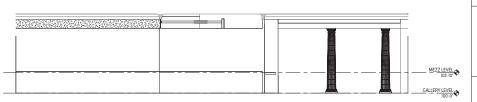
D3 GALLERY W



C3 GALLERY S



B3 GALLERY N



A3 GALLERY E

NO DESCRIPTION DATE



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CARNEGIE BUILDING RENOVATION CITY OF FORT COLLINS

CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

Fort Collins, CO 80524

PROJECT #: 2118

ISSUE DATE: 09/16/22

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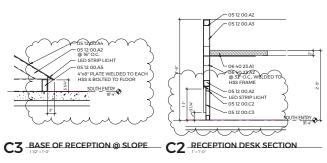
A222
INTERIOR ELEVATIONS

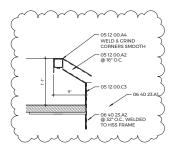
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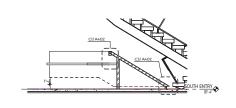


	KEYNOTES
#	NOTE
05 12 00.A2	2-1/2 x 2-1/2 x 1/8" HSS
05 12 00.A3	1/8" STEEL PLATE W/ CAR PAINT (ALL SIDES OF HSS FRAME)
05 12 00.A4	1/8" STEEL PLATE W/ CAR PAINT
05 12 00.A5	1/8" STEEL PLATE
05 12 00.C2	2-1/2 x 1-1/2 x 1/8" HSS
05 12 00.C3	1/8" STEEL PLATE w/ CAR PAINT (ORANGE)
06 40 23.A1	SOLID WHITE OAK w/ CLEAR FINISH
06 40 23.A2	FLOATING TOP WALL MOUNTING BRACKET





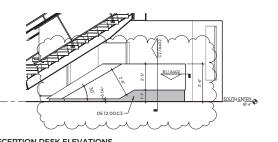
TOP OF RECEPTION DESK











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CARNEGIE BUILDING RENOVATION CITY OF FORT COLLINS

200 Mathews Street Fort Collins, CO 80524

PROJECT #: 2118
ISSUE DATE: 09/16/22

A402

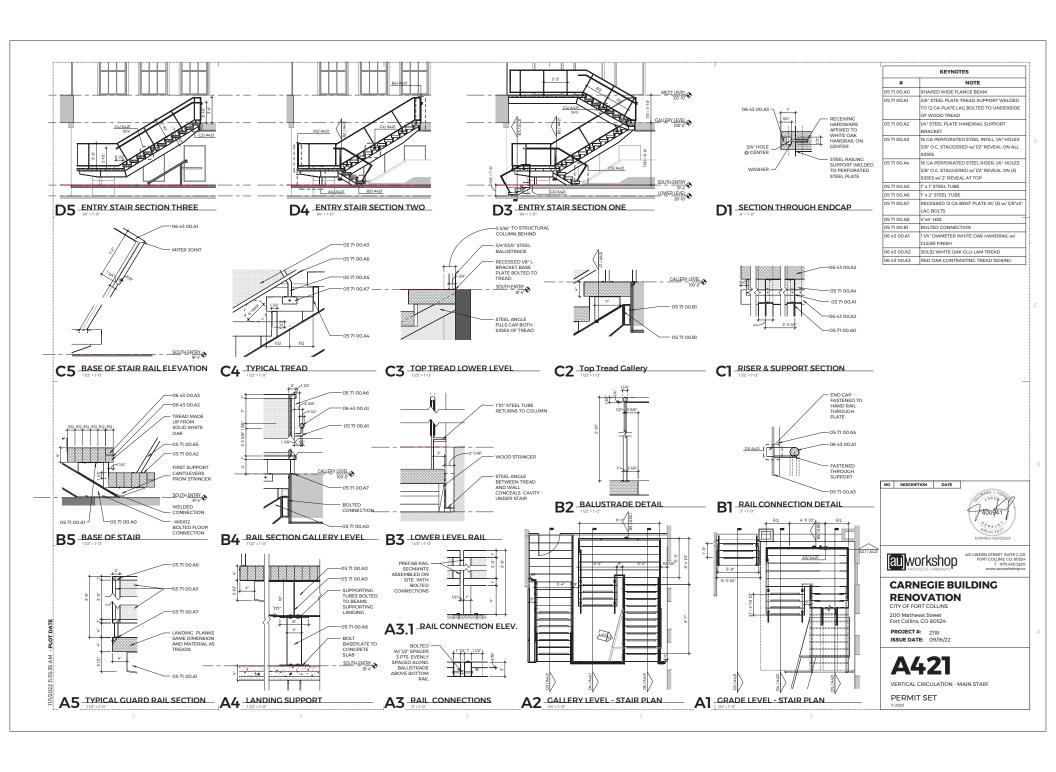
A3 RECEPTION DESK ELEVATIONS

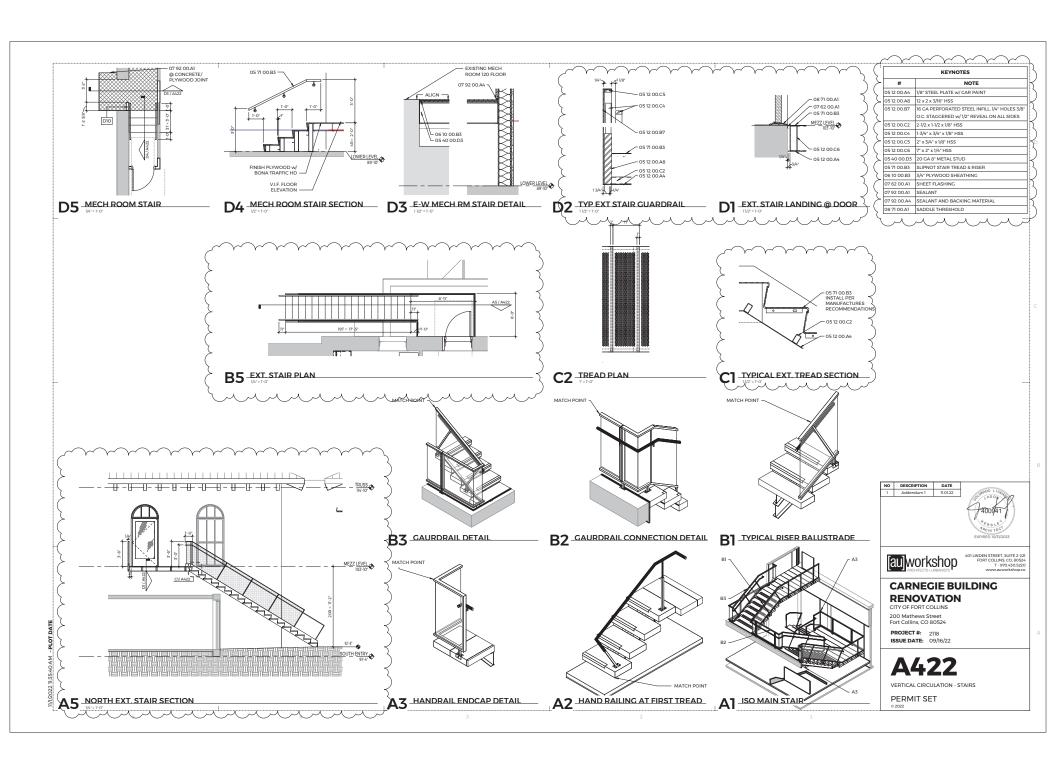
B3 RECEPTION DESK SECTION

BUILDING ATTENDANT

A1 RECEPTION PLAN

ENLARGED PLANS & DETAILS PERMIT SET © 2022







SECTION PERSPECTIVE



ENTRY PERSPECTIVE



GALLERY PERSPECTIVE



ENTRY REVERSE

NO DESCRIPTION DATE

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CARNEGIE BUILDING RENOVATION

RENOVATION CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

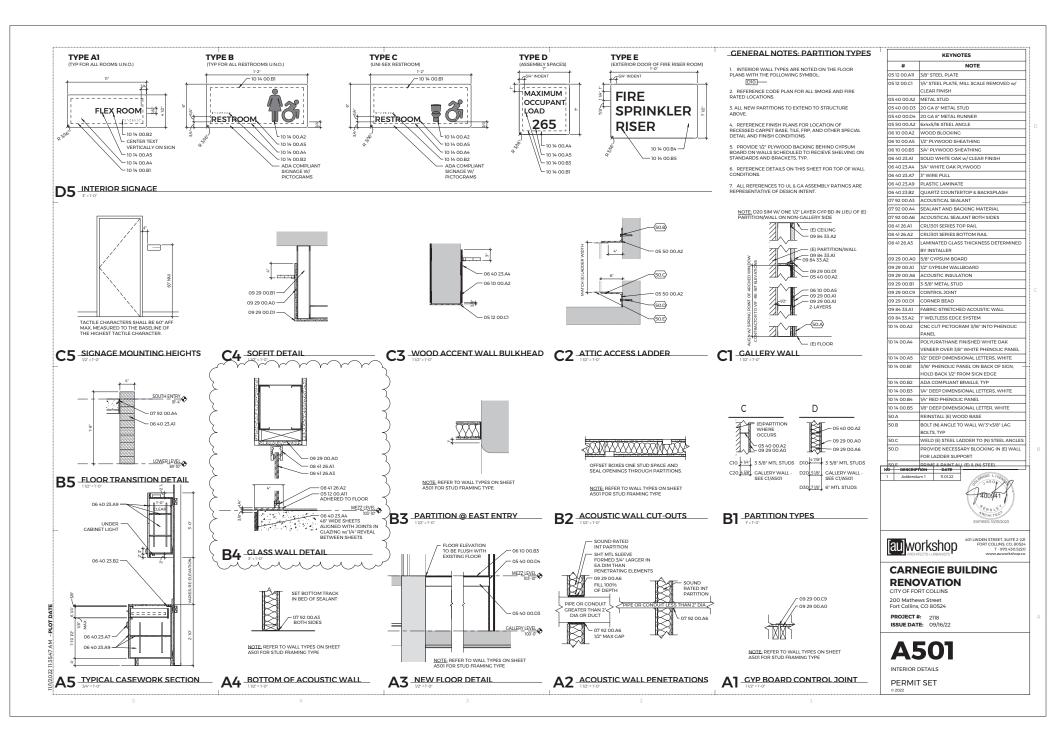
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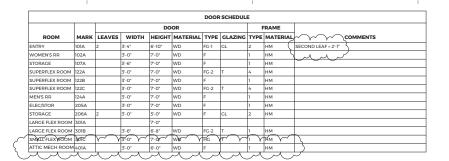
A423

MAIN STAIR PERSPECTIVES

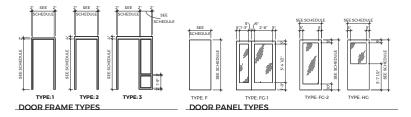
PERMIT SET

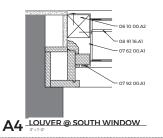
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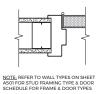




	KEYNOTES	
#	NOTE	
06 10 00.A2	WOOD BLOCKING	
07 62 00.A1	SHEET FLASHING	
07 92 00.A1	SEALANT	
08 91 16.A1	FIXED ALUMINUM LOUVER	
09 29 00.A1	1/2" GYPSUM WALLBOARD	Т
09 29 00.D1	CORNER BEAD	
09 29 00.D2	EZYJAMB SINGLE REBATE DOOR FRAME - SRC	
60.A	REFURBISH WINDOWS PER THIRD PARTY	
	INVESTIGATION	

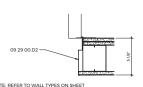






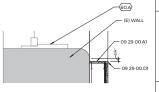
SCHEDULE FOR FRAME & DOOR TYPES

TYPICAL HM FRAME
3'=1'-0'



NOTE: REFER TO WALL TYPES ON SHEET A501 FOR STUD FRAMING TYPE & DOOR SCHEDULE FOR FRAME & DOOR TYPES

A2 HIDDEN DOOR JAMB



NOTE: REFER TO WALL TYPES ON SHEET A501 FOR STUD FRAMING TYPE

Al ARCHED WINDOW JAMB DETAIL





CARNEGIE BUILDING RENOVATION

CITY OF FORT COLLINS 200 Mathews Street Fort Collins, CO 80524

PROJECT #: 2118
ISSUE DATE: 09/16/22

A601

DOOR & WINDOW SCHEDULES

11/1/2022 11:35:49 AM - PLOT DAT



—— PUMP (FLOW RIGHT) −6⊢− BALL VALVE ___SMS___ SNOWMELT SUPPLY DIDING ____M__ CATE VALVE —SMR— SNOWMELT RETURN PIPING — → PRESS. RED. VALVE - CS - CONDENSER SUPPLY PIPING - BALANCE VALVE - CR - CONDENSER RETURN PIPING - CHECK VALVE PIPE ELBOW DOWN ——∥—— UNION ___ PIPE ELBOW UP - PIPE TEE DOWN PIPE CONTINUATION

GENERAL MECHANICAL REQUIREMENTS:

CODES AND PERMITS
WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES, PERMITS NECESSARY FOR PERFORMANCE OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR

UNDIRECTANCE FRANCE FRANCE FRANCE FOR THE BEDGES SHALL PERFORM A BUILDING AND SPACE SITE VISIT PRIOR TO BID. THE ACT OF SUBMITTING A BID INDICATES THE BEDGER DOES AGREE THEY HAVE A FULL UNDERSTANDING OF THE SCOPE OF WORK

DRAPHICS FOR DECEMBATION

DRAPHICS FOR DECEMBATION OFFER ARE DIAGRAMMATIC IN NATURE, AND ARE NOT INTERDED TO BE SCALED FOR EXACT

DRAPHICS FOR UNCLEASED. OF SERVE AS SHOP DRAWNINGS CHARGES FROM THE PLANS MADE WITHOUT CONSENT OF THE

ENGINEER SHALL RELIEVE THE ENGINEER OF RESPONSIBILITY FOR ALL CONSEQUENCES ARBIVING OUT OF SUCH CHARGES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE CONDITIONS REQUIRE REASONABLE CHANGES TO THOSE INDICATED ON THE DRAWINGS. MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THI OWNER. COORDINATE ALL WORK WITH OTHER TRADES.

MARKAGALIA WORKMANSHIP, MATERIALS, EQUIPMENT AND PROPER OPERATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE FROM THE OWNER. INITIAL ACCEPTANCE OF WORK SHALL NOT WAIVE THIS GUARANTEE. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN EQUIPMENT OPERATION AND MAINTENANCE MANUALS.

SCHIMITALS

CONTRACTOR STATEMENT TO THE ARCHITECT/EXCHAERE A PORTABLE DOCUMENT FORMAT "PRI" COPY OF SUBMITTAL
BROCHURES FOR BEYET. PROVIDE INFORMATION ON ALL MAJOR EQUIPMENT AS LISTED ON DRAINING EQUIPMENT SCHEDULES,
AS TELL AS VALUES, DOUTTOOR ACCESSORIES AND TEMPERATURE CONTROL DEGREEM AS A PAPILLAGE.

OPERATION AND MAINTENANCE MANUALS

CONTRACTOR SHALL FURNISH AT THE COMPLETION OF THE PROJECT A PORTABLE DOCUMENT FORMAT "PDF" COPY OF CONFIDENT OPERATION AND MAINTENANCE MANIMALS TO THE AMERITETY TROCKERS FOR STATE PRIOR TO THEORYEY TO ORNER MANIMALS TO HE BOUND AND INCLINE INSTITUTION INSTITUTIONS DEPLICATION FOR THE STAND MAINTENANCE INFORMATION ON ALL EQUIPMENT AS DESCRIBED IN THE SUBBITTALS SECTION. COMPLETED OFFERATION AND MAINTENANCE MANIMALS ARE TO BE FORMARIZED TO THE ORNER WITHIN OR DAYS AFTER OWNER BUILDING ACCEPTATION. PRODUCT SUBSTITUTIONS

MANUFACTURER MODEL NUMBERS LISTED ON THE DRAWINGS AND/OR SPECIFICATIONS ARE TO BE CONSIDERED AS THE BASIS OF DESIGN. WHERE TWO OR MORE ALTERNATE MANUFACTURERS OR MATERIALS ARE LISTED. THE CHOICE OF THESE SHALL HE OPTIONAL WITH THE CONTRACTOR. PRICE TO THE MARRING OF THE CONTRACT, CONTRACTOR AND REQUEST A PROPOSED SUBSTRUCTURE OF MATERIALS IN REPRING TO THE AMERICAN FURDER NO LATER THAN SEVER DATA PROPOSED THE RECEIPT OF BIRS. THE COST OF ANY CHARGES REQUIRED BY OTHER TRADES, INCLUDING A/E DESIGN, DUE TO THE SEE OF TEQUIPMENT AND/OR MATERIALS OFTHER THAN TOF THE BASIS OF DESIGN SHALL BE PAUL BY THE

RECORD DRAWINGS

CONTRACTORS SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF MARKED UP DRAWINGS SHOWING ACTUAL LOCATIONS OF INSTALLED WORK. THESE DRAWINGS ARE TO BE FORWARDED TO THE OWNER AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT THE COMPLETION OF THE PROJECT.

ACCESS DOORS

ALL ACCESS DOORS/PANELS AS REQUIRED FOR ACCESS TO VALVES DAMPERS CONTROL DEVICES FILTERS AND ANY OTHER ITEMS FOR WHICH ACCESS IS REQUIRED FOR EITHER OPERATION OR SERVICING. WHERE ACCESS DOORS ARE TO BE INSTALLED IN ASSEMBLIES REQUIRED TO HAVE A SPECIFIC FIRE RATING, ACCESS DOORS SHALL ALSO BE FIRE

PIPING AND DUCTWORK SEALANT THROUGH RATED ASSEMBLIES

<u>PIPING AND DUCTWORK SEALANT THROUGH RATED ASSEMBLIES.</u>

PENETRATIONS SHALL BE SEALED AS REQUIRED IN ACCORDANCE WITH BUILDING AND MECHANICAL CODES TO RESIST THE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION IN ORDER TO MAINTAIN THE RESISTANCE RATING OF THE CONSTRUCTION BEING PENETRATED

CONSTRUCTION BRING PRECEDENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK, MATERIAS, AND EQUIPMENT PROVIDED UNDER THIS SECTION, PURPORAISOS SHALL BE CLOSED WITH CLAPS OR PLUGS TO PREVENT THE ENTRANCE OF DEBIES DURING CONSTRUCTION. ALL DUCTHORK OPENINGS SHALL BE SHALL BE SEALED CLOSED DURING CONSTRUCTION.

ALTITUDE AND THE STATE OF THE AUTHOR OF THE AUTHOR OF THE STATE OF THE AUTHOR OF THE STATE OF THE AUTHOR OF THE STATE OF THE STATE OF THE AUTHOR OF THE STATE OF THE STATE OF THE AUTHOR OF THE STATE OF THE STAT

EQUIPMENT AND PIPING IDENTIFICATION <u>equipment and piping identification</u> provide equipment labels for all major equipment, including but not limited to air handling systems, fans,

VAV BOXES, CONTROLS, DAMPERS, CONTROL VALVES AND PUMPS.
PROVIDE PIPE MARKERS ON CW, HW AND HWC SYSTEMS. LABELS TO BE AT MAXIMUM 8 FEET APART, WITH FLOW DIRECTION

ADDITIONALLY, PROVIDE LABELING ON POTABLE WATER MANIFOLDS INDICATING PLUMBING FIXTURE SERVED BY THE OUTLET.

BELS SHALL BE AFFIXED OR ADHERED PERMANENTLY TO EQUIPMENT. EQUIPMENT INSTALLED INDOORS TO BE LABELED

WITH EMBOSSING TAPE.
EQUIPMENT INSTALLED OUTDOORS TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS.

PIPE MARKERS TO BE SELF-ADHESIVE, MANUFACTURED FOR SUCH PURPOSE.

STARTERS AND DISCONNECTS
EQUIPMENT STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR EQUIPMENT DISCONNECTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE DRAWINGS. STARTERS SHALL BE NEMA TYPE, AND SHALL INCLUDE PHASE MONITORING FOR MOTORS 5 HP AND LARGER.

SHALL BE PERFORMED ON THE FOLLOWING SYSTEMS SPECIFIED. ALL SYSTEMS LISTED MAY NOT BE INCLUDED IN PROJECT, REFER TO DRAWINGS FOR APPLICABLE SYSTEMS.
SOIL, WASTE AND STORM DRAINAGE PIPING SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES.

DOMESTIC WATER PIPING SHALL BE TESTED AND PROVEN WATERTIGHT UNDER A PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM FOR A 24 HOUR PERIOD. DOMESTIC WATER PIPING SYSTEM SHALL BE CHLORINATED AND STERILIZED IN ACCORDANCE WITH REQUIREMENTS OF LOCAL

JURISDICTION. NATURAL GAS PIPING SHALL BE TESTED WITH AN AIR PRESSURE OF MINIMUM TWO TIMES THE DESIGN SYSTEM PRESSURE

BUT NO LESS THAN 3 PSIG, FOR A PERIOD OF 24 HOURS WITHOUT PRESSURE DRO

SYSTEM BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR BALANCE ALL SYSTEMS INCLUDING AURPLOW TO AND FROM ALL OPENINGS, AND PUMPED WATER SYSTEMS INCLUDING DOMESTIC WATER RECIRCULATION SYSTEMS AS APPLICABLE. MAKE ANY ADJUSTMENTS NECESSARY TO RESULT IN CONDITIONS INDICATED AND PROVIDE READJUSTMENTS TO ITEMS IN REPORT AS MAY BE REQUESTED BY ARCHITECT/ENGINEER. SUBMIT TWO COPIES OF TEST READISTREAMS TO ITELS IN REPORT AS MAY BE REQUESTED BY ARCHITECT REGISTER. SCHOOL THE COPY OF TEST
AND BLACKER REPORT FOR APPEAUL AT ARM AND PURP PETERS TO BE BRANCED WITHIN PLAY IN BURNES S PRECENT OF
LISTED VALUES. BRANCE REPORT TO INCLIDE.

UNIT DESTRUCTATION
MANUFACTURES AND AMPETATE DATA
REQUESTED VALUEDATION
MANUFACTURES AND AMPETATE DATA
REQUESTED VALUEDATION.

RPM (DESIGN AND ACTUAL) FAN CFM (DESIGN AND ACTUAL)

FAN STATIC PRESSURE (DESIGN AND ACTUAL)

PUMP GPM (DESIGN AND ACTUAL) PUMP DISCHARGE AND SUCTION PRESSURE

PUMP DISCHARGE AND SUCTION PRESSURE
REGISTER GENELLE DIFFUSE REPERENCE NUMBER AND LOCATION
INLEX_FOUNDET OFM (RESIGN AND ACTUAL)
FLOW DEVICE PRESSURE DROP, CFM OR GPM
A FINAL BALANCING REPORT SHALL BE PROVIDED TO THE OWNER AFTER COMPLETION OF THE PROJECT.

CLEARING. AT THE COMPLETION OF WORK, ALL FIXTURES AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND DELIVERED IN A CONDITION SATISFACTORY TO THE ARCHITECT. ALL FILTERS SHALL BE REPLACED WITH NEW PRIOR TO OWNER ACCEPTANCE

GENERAL MECHANICAL NOTES

- MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING OR COMMENCING WORK. THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL MECHANICAL CODE.
- ON THE 2021 INTERNATIONAL MECHANICAL CODE.

 WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR
 PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50
- JUNELUPED INDEX OF NOT SUBJECT THAN SO.

 ALL DUCTRORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL. CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF SMACNA OR AS REQUIRED BY ALL APPLICABLE CODES.
- CONSTRUCT ALL SUPPLY AND RETURN DUCTWORK TO SMACNA
- CONSTRUCT ALL EXHAUST DUCTWORK TO SMACNA 1" PRESSURE
- DIMENSIONS OF DUCTWORK SHOWN INDICATES CLEAR INSIDE DIMENSIONS - WHERE DUCT LINER IS TO BE ADDED, INCREASE THE SIZE OF SHEET METAL ACCORDINGLY.
- THE SIZE OF SHEET METAL ACCORDINGLY.

 UNLESS NOTE OTHERWISE, THE SIZE OF THE BRANCH DUCT SERVING A SINGLE DIPTUSER SHALL BE THE SAME AS THE NECK SIZE OF THE DIPTUSER SERVED. FIZEABLE DUCTORNE SHALL NOT EXCEED 8-0 IN LENGTH. FIREMBLE DUCTORNE SHALL BUT LIBH LISTED WITH 50.25 SHORK, FIZHABE RATHOR, CONSISTING OF POLIESTER FILM ERCAPSULATION AN INNER CORROSION RESISTANT STEEL WHIE HILLIX CORE, FIZEABLE DUCT SHALL INCLUDE AN EXTERNOR FIDERICALS INSULATION WITH FOLL SCENAR FILM SHALL SH
- MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND PLUMBING VENTS
- MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
- WALL MOUNTED THERMOSTATS AND SENSORS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR UNLESS NOTED THERMOSTATS AND SENSORS LOCATED ON EXTERIOR WALL SURFACES SHALL BE PROVIDED WITH AN INSULATED SUB-BASE.
- INSULATED SUB-BASE.

 INFERROISTATS FOR COOLING AND HEATING EQUIPMENT SHALL BE 7-DAY PROGRAMMABLE TYPE, 4 PERIODS PER DAY, DI-HOURD HATTERY BACK-UP, 2-HOUR OVERHEDE, 5 DEG DEAD-BAND, HEAT/COOL/OFF/AUTO CHANGEOVER, AUTO SETBIACK TO 55 DEG F (HEAT) AND 85 DEG F (COOL), LCD BACKLIT DISPLAY, HARD WHEED POWER, HARD WHEED CONTROL.
- TEMPORARY HEATING: THE PERMANENT HVAC SYSTEM MAY NOT BE UTILIZED FOR HEATING UNTIL ALL GYPSUM WORK IS COMPLETED AND HAS BEEN PAINTED. IF THE PERMANENT HVAC SYSTEM IS LITILIZED DURING CONSTRUCTION ALL DUCT INTAKES SHALL BE COVERED WITH FILTER MEDIA (MERV-RATING) IF EXCESSIVE DUST OR DERRIS HAS ENTERED THE SYSTEM THEN ALL COIL AND DUCT SURFACES SHALL BE
- PLENUM SPACE IN WHICH THE PIPING MATERIAL HAS A FLAME SPREAD INDEX GREATER THAN 25 OR A SMOKE DEVELOPED INDEX OF MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 SHALL BE PROVIDED WITH PLENUM WRAP LISTED AND LABELED FOR SUCH APPLICATION. PROVIDE BLANKET WRAP INSULATION WITH A NOMINAL THICKNESS OF 0.5" WITH A DENSITY OF 4-POUNDS PER CUBIC FOOT. BLANKET WRAP SHALL BE FULLY ENCAPSULATED WITH A POLY-ALUMINUM FOIL FIBERGLASS REINFORCED SCRIM COVERING AND BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS 3M FIRE BARRIER PLENUM WRAP 5A OR APPROVED.
- 3M FIRE BARRIER PLENUM WRAP 5A OR APPROVED.
 HEATING AND CHILLED WATER PIPING 2" AND SMALLER SHALL
 BE SCHEDULE 40 BLACK STEEL WITH SCREWED FITTINGS.
 PIPING 2.5" AND LARGER SHALL BE SCHEDULE 40 BLACK
 STEEL WITH GROOVED VICTAULIC FITTINGS.
- TEMPERATURE CONTROLS SHALL BE DESIGN BUILD. CUSTOM. FIELD FABRICATED TO MATCH COR ESPONDING EQUIPMENT. THE SYSTEM SHALL BE A FULL DIPECT DIGITAL CONTROL (DDC). BULDING AUTOMATION SYSTEM (BAS). THE ME SHALL HIBE A TEMPERATURE CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL SYSTEM DESIGN AND INSTALLATION. THE CONTROL CONTROL SYSTEM DESIGN AND INSTALLATION. THE CONTROL SHALL PROPERTY DESIGN, PROPIDE AND INSTALL SYSTEM(S) INCLIDING ALL COMPONENTS INCESSARY FOR A FULL AND COMPLETE, OPERATIONAL SYSTEM HIS SOLUTION. SOUTHWARD CONTROL SYSTEM STATEMENT OF THE MOST OF THE STATEMENT OF THE STATE BUILDING AUTOMATION SYSTEM (BAS). THE MC SHALL HIRE A MONITORING AND SETPOINT ADJUSTMENT. ALL SYSTEM PASSWORDS SHALL BE GIVEN TO THE BUILDING OWNER. ALL LINE VOLTAGE INTERFACING SHALL BE COORDINATED DIRECTLY WITH THE ELECTRICAL CONTRACTOR. PROVIDE SUBMITTALS ON DESIGN, COMPONENTS, SEQUENCES AND WIRING DIAGRAMS PRIOR TO ORDERING
- PRESS ON HYDRONIC FITTINGS AND PULLED TEE FITTINGS WILL NOT BE ACCEPTED.
- HANGING, ANCHORING AND SUPPORT OF EQUIPMENT, DUCTS, PIPING AND ACCESSORIES IS DESIGN BUILD BY THE MC. THE SUPPORTS SHALL MEET CODE.
- ALWAYS INSTALL EQUIPMENT PER MANUFACTURER'S INSTALL ATION INSTRUCTIONS

INSULATION NOTES AND MECHANICAL ENERGY CODE

- THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- INTERNATIONAL ENERGY CUNSERVATION CODE.
 ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE
 SEALED AIRTIGHT WITH DUCT SEALANT ALONG ALL SEAMS AND
 JOINTS.
- SEE HVAC INSULATION SCHEDULE FOR DUCT INSULATION REQUIREMENTS
- HYDRONIC HOT WATER PIPING SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL SERVICE JACKET, HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL
- HYDRONIC CHILLED WATER PIPING SHALL BE INSULATED USING FIBERGLASS INSULATION WITH ALL SERVICE JACKET HAVING MAXIMUM K FACTOR OF 0.27. INSULATION THICKNESS SHALL
 - " FOR ALL SIZES

CITY OF FORT COLLINS GREEN CODE REQUIREMENTS

- BEFORE OCCUPANCY AND AFTER ALL INTERIOR FINISHES ARE COMPLETE, THE BUILDING IS TO BE FLUSHED OUT (VENTILATED) FOR A PERIOD OF 14 DAYS. WHERE CONTINUOUS VENTILATION IS NOT POSSIBLE, THE AGGREGATE OF FLUSH-OUT PERIODS SHALL BE EQUIVALENT TO 14 DAYS. CONTRACTOR COORDINATE WITH BUILDING OFFICIAL FOR INFORMATION TO BE CONTAINED IN FLUSH-OUT REPORTS.
- PROTECT HVAC EQUIPMENT FROM CONSTRUCTION DUST AND DEBRIS. DO NOT OPERATE HVAC EQUIPMENT DURING CONSTRUCTION AND SEAL ALL DUCT OPENINGS WITH PLASTIC. LOW-VOLATILE ORGANIC COMPOUND (VOC) DUCT INSULATION
- ADHESIVE SHALL BE USED: DESIGN POLYMERICS 2501, 2502 OR APPROVED EQUAL
- LOW-VOLATILE ORGANIC COMPOUND (VOC) DUCT SEALANT SHALL BE USED: DESIGN POLYMERICS 1010, 1015 OR APPROVEI
- EQUAL.

 LOW-VOLATILE ORGANIC COMPOUND (VOC) FIRE CAULK SHALL

 BE USED 3M FIRE BARRIER IC 15WB+, FD 150+, CP 25WB+ OR

 APPROVED EQUAL.
- AIR SEALING VERIFICATION (BLOWER DOOR TEST) IS TO BE PERFORMED. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE G.C. AS NECESSARY TO ASSIST IN THIS TESTING THE FOLLOWING ITEMS ARE TO BE COMPLETED FOR TESTING 1)DAMPERS SHALL BE CLOSED, BUT NOT SEALED, INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE EMHAUST, INTAKE, MARKUP AIR, BACKUPART AND FILE DAMPERS: 2) HEATING AND COOLING SYSTEMS SHALL BE TURNED OFF. 3)HEATING, VENTILATING AND AIR CONDITIONING DUCTS SHALL NOT BE SEALED. 4) SUPPLY, AND RETURN AIR REGISTERS SHALL NOT BE SEALED. 5) COMBUSTION AIR INLETS SHALL NOT BE CLOSED OR OTHERWISE ORSTRUCTED.
- IN ADDITION TO TESTING REQUIREMENTS LISTED IN THE GENERAL MECHANICAL REQUIREMENTS, ALL HEATING, COOLING AND VENTILATION SYSTEMS SHALL BE PERFORMANCE-TESTED BY AN APPROVED AGENCY AND ADJUSTED TO OPERATE WITHIN DESIGN SPECIFICATIONS. DOCUMENTATION OF TESTING AND ADJUSTING RESULTS (TAB REPORT) SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO APPROVAL. COORDINATE
 WITH BUILDING OFFICIAL FOR LIST OF APPROVED AGENCIES
- WITH BUILDING OFFICIAL FOR LISTS OF APPROVED ASSOCIATED BY A COMMISSIONING AGENT. THE MECHANICAL AND PLASMING AGENT AS COMMISSIONING AGENT. THE MECHANICAL AND PLASMING AGENT AS REQUESTED AND NELTONING AGENT AS REQUESTED AND NECESSARY TO COMPLETE ANY ASPECTS OF COMMISSIONING RELATED TO THE MECHANICAL SCOPE OF WORK. MECHANICAL COMMISSIONING SCOPE MAY INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: 1) ATTEND COMMISSIONING MEETINGS AS NECESSARY. 2) PERFORM FUNCTIONAL PERFORMANCE TESTING UNDER THE DIRECTION OF THE COMMISSIONING AGENT. 3) COMPLETE COMMISSIONING CHECKLISTS AND PROVIDE ANY DOCUMENTATION AS REQUESTED BY THE COMMISSIONING AGENT. 4) PROVIDE TRAINING FOR OWNER'S OPERATING PERSONNEL AS REQUIRED OR REQUESTED.
- OWNERS OPERATING PERSONNEL AS REQUIRED OR REQUESTED.
 A CONSTRUCTION WASTE MANAGEMENT PLAN WILL BE
 IMPLEMENTED REQUIRING RECYCLING OF NORMAZARDOUS
 CONSTRUCTION DEBRIS. COORDINATE WITH G.C. FOR
 RECYCLING OF ITEMS RELATED TO THE MECHANICAL SCOPE OF

MECH	ANICAL DRAWING INDEX	٦
SHEET NUMBER	SHEET NAME	
MO.1	HVAC NOTES, LEGEND, AND DRAWING INDEX	П
M0.2	SEQUENCE OF OPERATIONS	П
M1.1	DEMOLITION PLANS	Α
M2.1	HVAC FIRST FLOOR PLAN	П
M2.2	HVAC SECOND FLOOR PLAN	П
M3.1	HVAC FIRST FLOOR HYDRONIC PLAN	П
M3.2	HVAC SECOND FLOOR HYDRONIC PLAN	П
M7.1	MECHANICAL DETAILS	П
M7.2	MECHANICAL DETAILS	\Box
M8.1	MECHANICAL SCHEDULES	\Box
M8.2	MECHANICAL SCHEDULES	\Box
M8.3	MECHANICAL SCHEDULES	
M8.4	MECHANICAL SCHEDULES	_
M8.5	MECHANICAL SCHEDULES	_



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FC CARNEGIE

CITY OF FORT COLLINS

FORT COLLINS, CO

21-207

PROJECT #: ISSUE DATE:

HVAC NOTES LEGEND

M0.1



```
    CoupledUnoccupied schedules shall be determined by building owner. TCC shall build schedule accordingly.
    Coupled Temperature set points:
    Coupled Temperature set points:

                       a. Heating: 70 Deg
b. Cooling: 74 Deg

    Unoccupied
    Beating: 55 Deg
    Cooling: 80 Deg
    Energy Recovery Ventilator (ERV-1, ERV-2):
    Occupied Mode:

                       a. Supply/Exhaust Fans:

    Fans to operate continuously at 100%.
    Inlet dampers shall be open.

                                    Majority Call for Cooling in building:

    OAT above 55 deg F:
    2a. Economizer bypass dampers shall be cle
    OAT below 55 deg F:

                                                  2a. Economizer bypass dampers shall be open

    Majority Call for heating in building:
    Economizer bypass dampers shall be closed.

                         a. Supply Fan:

    Supply and exhaust fans shall be off.
    Inlet dampers shall be closed.

    Alarms generated by the ERV shall be sent through the DDC system to the
alarm notifier.

                                    1a. Fan fail.

a. Bollers are sized for each at 50% of building load. Both boilers are required for full heating.
b. The boilers shall maintain hydronic heating temperature. All values shall be adjustable.
                                     Each boiler shall use internal logic to modulate and supply the maintain loop temperatures.

    Boilers shall flip leading position based on run time.
    Each boiler shall energize the corresponding dedicated pump (P-1, P-2) through internal logic.
```





MECHANICAL





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CITY OF FORT COLLINS FORT COLLINS, CO

PROJECT #: ISSUE DATE:

21-207 09/15/2022

SECUENCE OF

M_{0.2}

H. WATER SOURCE HEAT PUMPS (WSHP-1 thru WSHP-10): WSHP shall function as directed by the DDC zone thermostat.

a. Occupied:

1a. Fan shall be on. 1b. Call for Cooling Unit shall use internal logic to energize cooling system
 Open zone water valve. Call for Heating

2a. Unit shall use internal logic to energize heating system.

2b. Open zone water valve. 1d. Satisfied

2a. Close water valve. Unicorpose.

18. Supply fain normally on.

19. Call for Cooling

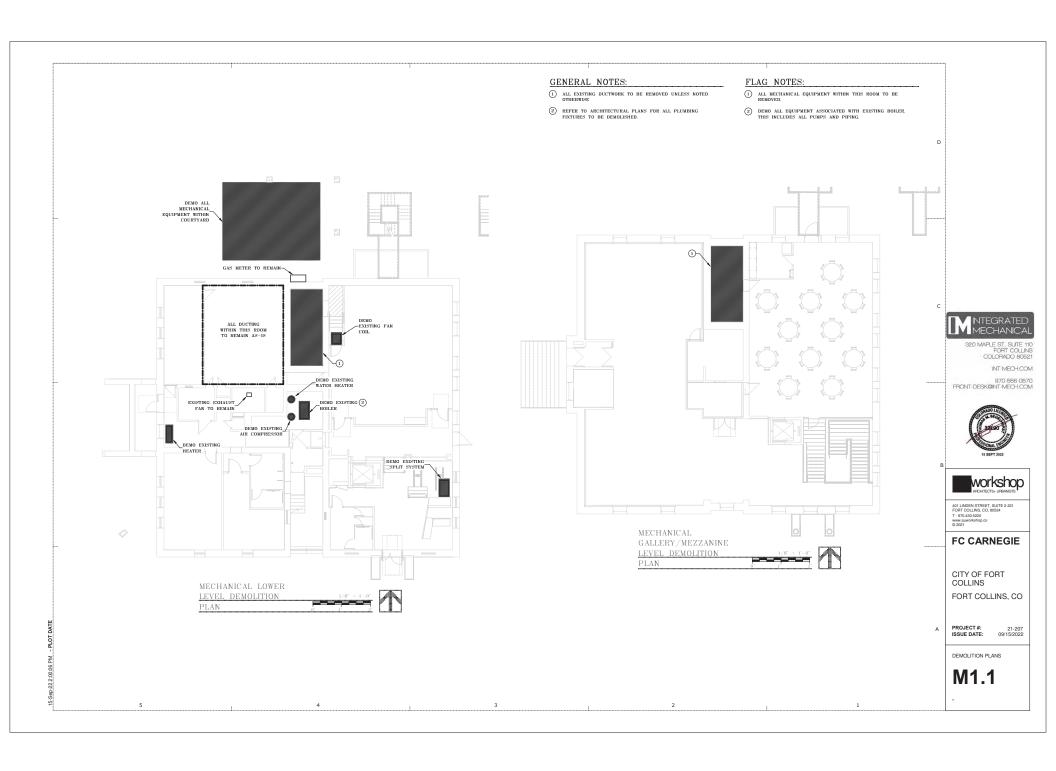
29. Supply fain shall emergine.

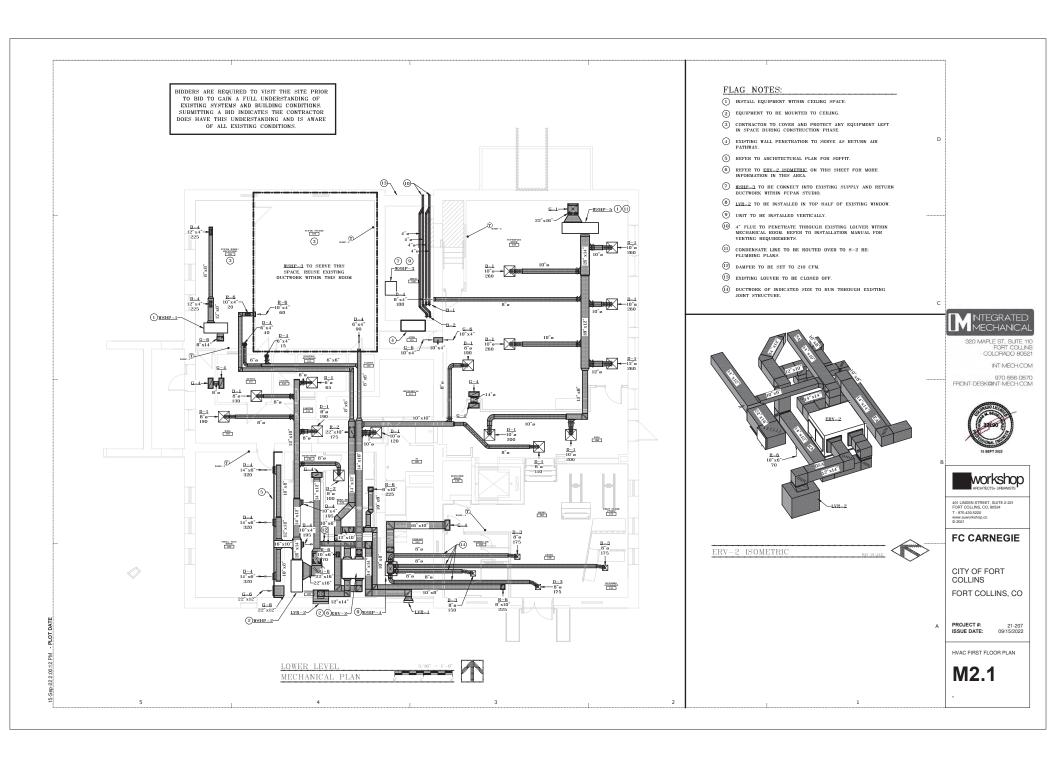
29. Unit shall use internel logic to energibe cooling system.

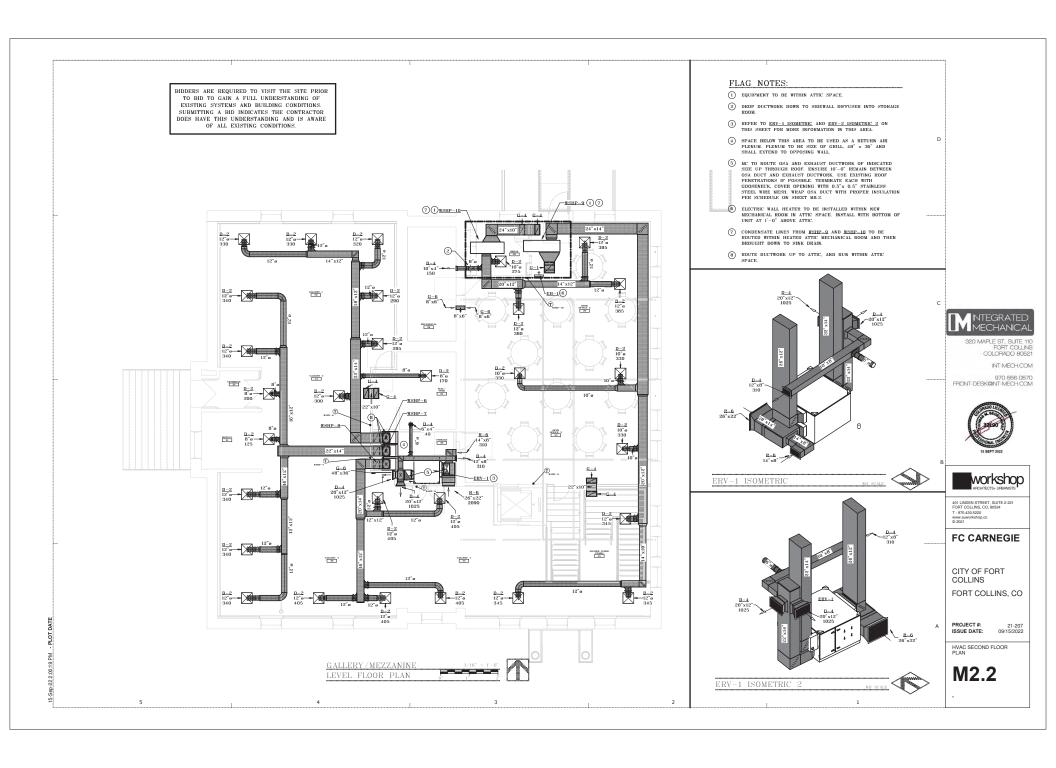
20. Open zone water valve. Close water valve.
 Fan off. 1d. Call for heat: Supply fan shall energize.
 Supply fan shall energize.
 Unit shall use internal logic to energize heating system.
 Open zone water velve. Alarms
 WSHP fail.

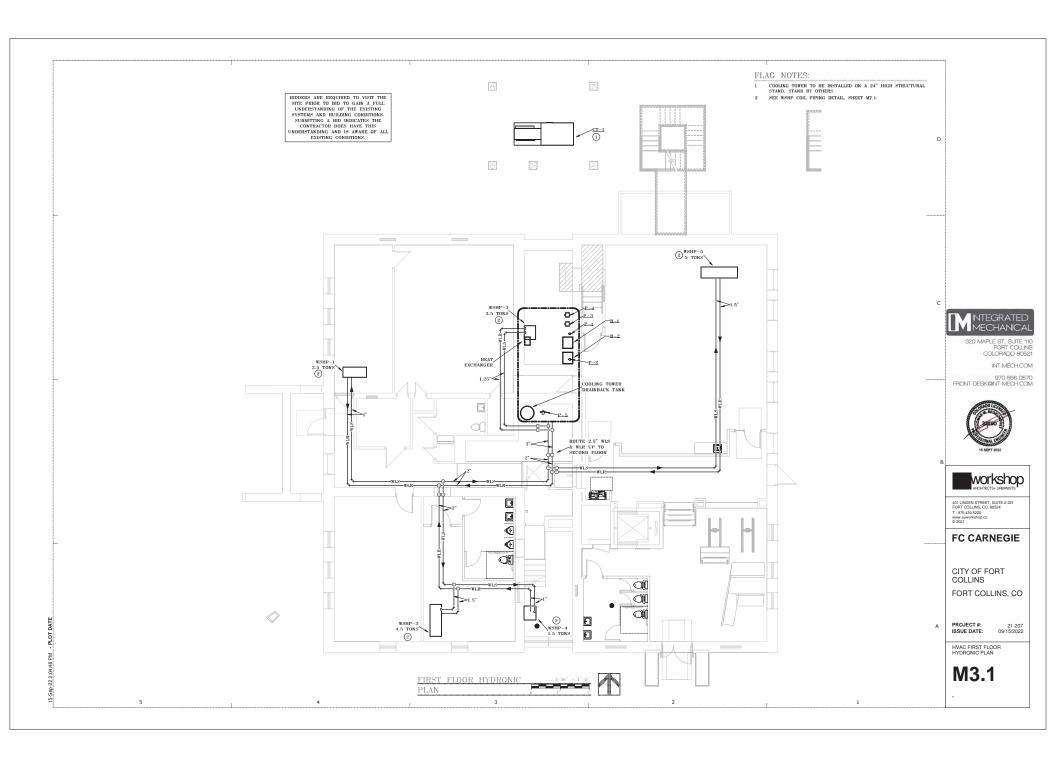
I. Electric Wall Heaters Factory internal thermostatis.
 System shall self-regulate to maintain space temperature setpoints.
 Install DDC room sensor in attic WSHP room. Monitor with DDC system. Room temperature falls below 50 deg F. Zone Thermostats:

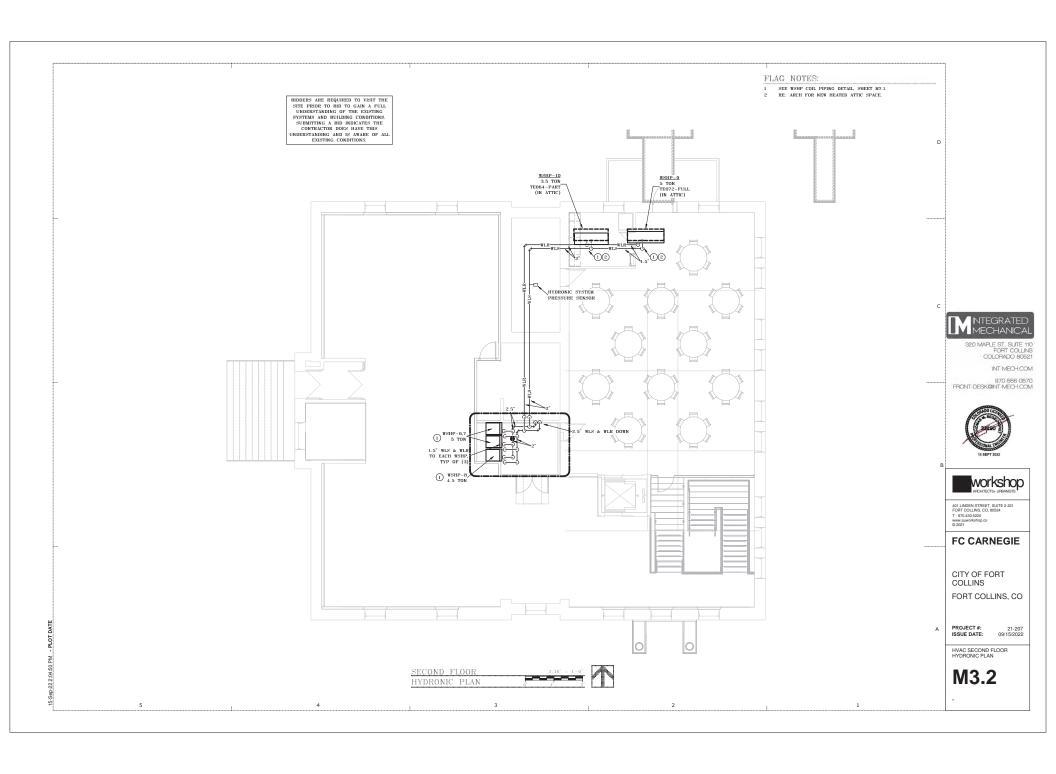
1. Coordinate style directly with Owner. DDC type.
 No temperature display. Slider temperature control. Adjustable range regulated from central DDC controller. 3 hour override button. Local temperature and set points to be sent to DDC Controller DDC Controller:
 Full graphical interface Digital floor plans with active zone maps and temperatures Live digital display: a. Boiler systems b. Pumps c. Cooling Tower
d. ERVs
e. WSHPs
f. Active alarms Provide stand alone control server with full display. Trending capabilities minimum 250 GB data. Any data point shall be trendable if assigned. The following shall always be trended: All alarms
 Outdoor air temperature Building water loop temperature Pump status. Boiler Status Cooling Tower Status ERV Status

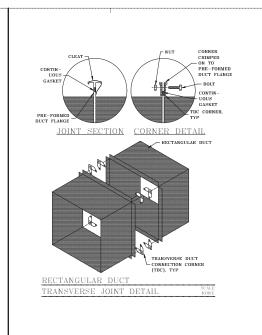


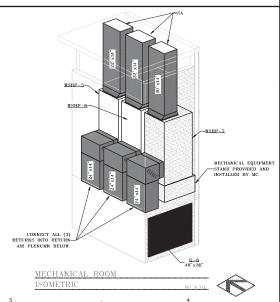


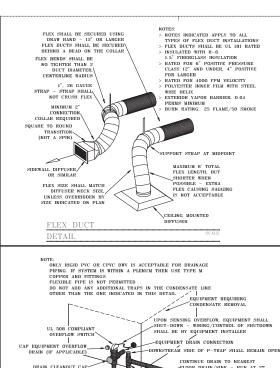


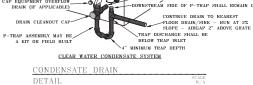


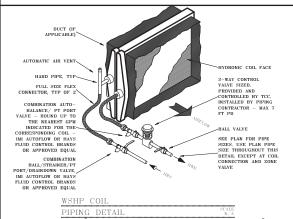


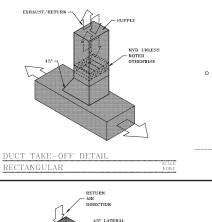


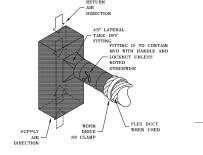












⊖ = 30° MAX CONVERGING

AIRFLOW

15° MAX Θ Θ

DIVERGING AIRFLOW

DIVERGING

⊖ = 30* MAX CONVERGING

AIRFLOW 15* MAX DIVERGING AIRFLOW

DIVERGING

Θ

DUCT TAKE-OFF DETAIL ROUND

RECTANGULAR OR-

RECTANGULAR OR-ROUND DUCT

NOTE: 1) DETAIL APPLIES TO ALL DUCTWORK

2) ON DUCTWORK TRANSITIONING ON ALL FOUR SIDES, NONE OF THE TRANSITION ANGLES MAY EXCEED 15*

ONVERGIN

CONVERGING

AIRFLOW

DUCT TRANSITION

DETAIL



INTEGRATED

320 MAPLE ST, SUITE 110 FORT COLLINS

970-556-0570 FRONT-DESKØINT-MECH.COM

COLORADO 80521

INT-MECH.COM

V MECHANICA



401 LINDEN STREET, SUITE 2-221 FORT COLLINS, CO, 80524 T - 970.430.5220 www.auworkshop.co © 2021

FC CARNEGIE

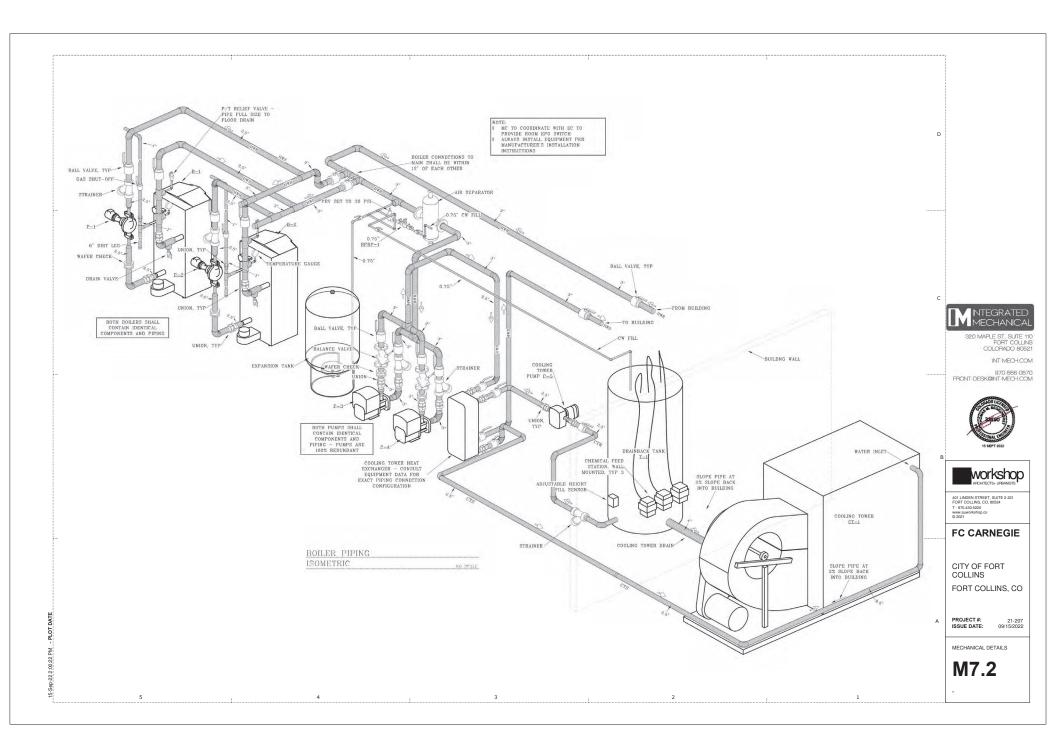
CITY OF FORT COLLINS FORT COLLINS, CO

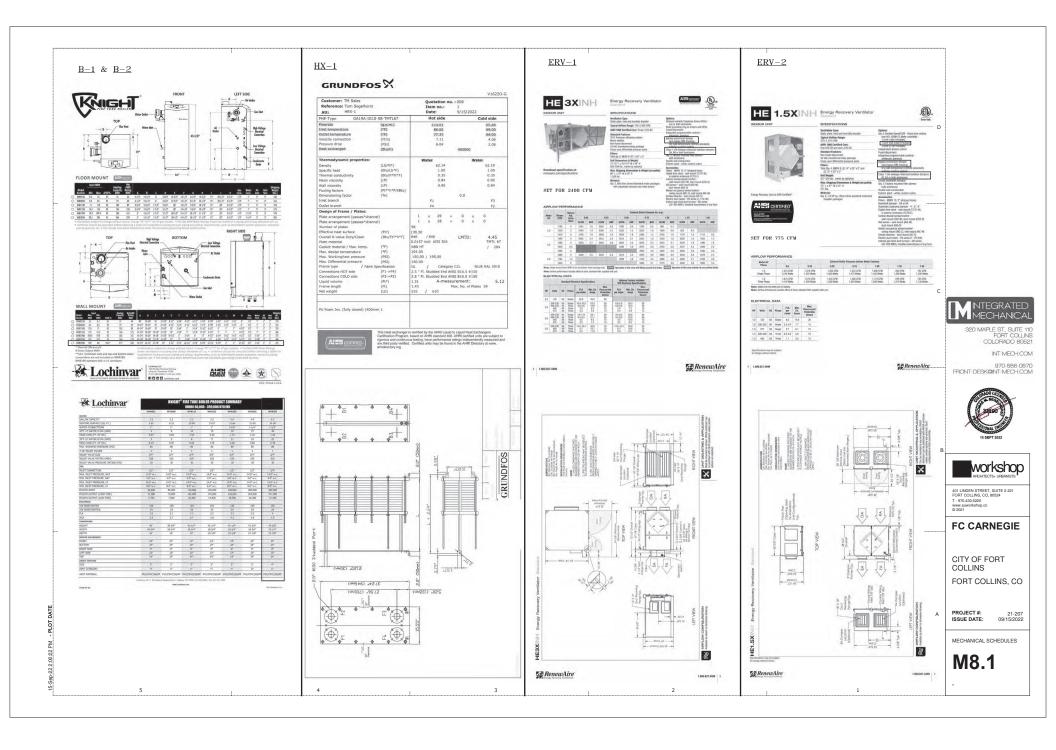
PROJECT #: ISSUE DATE:

21-207 09/15/2022

MECHANICAL DETAILS

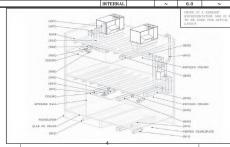
M7.1





	LLES, REGISTERS	IIII BIII CELII	NECK	ILLDO		FRAME	FRAME	FRAME		
TAG	MAKE & MODEL NUMBER	DESCRIPTION	SIZE	DUTY	COLOR	SIZE	TYPE			REMARKS
D-1	TITUS OMNI-3	ARCHITECTURAL UNI-FLO DIFFUSER	6"a	SUPPLY	WHITE	24"x24"	LAY-IN	STEEL	NO	
D-1	TITUS OMNI-3	ARCHITECTURAL UNI-FLO DIFFUSER	8"0	SUPPLY	WHITE	24"x24"	LAY-IN	STEEL	NO	
D-1	TITUS OMNI-3	ARCHITECTURAL UNI-FLO DIFFUSER	10"a	SUPPLY	WHITE	24"x24"	LAY-IN	STEEL	NO	
D-1	TITUS OMNI-3	ARCHITECTURAL UNI-FLO DIFFUSER	12"e	SUPPLY	WHITE	24"x24"	LAY-IN	STEEL	NO	
D-2	TITUS OMNI-1	ARCHITECTURAL UNI-FLO DIFFUSER	8"a	SUPPLY	WHITE	24"x24"	SURFACE	STEEL	YES	WITH TRIM FRAM
D-2	TITUS OMNI-1	ARCHITECTURAL UNI-FLO DIFFUSER	10"a	SUPPLY	WHITE	24"x24"	SURFACE	STEEL	YES	WITH TRIM FRAM
D-2	TITUS OMNI-1	ARCHITECTURAL UNI-FLO DIFFUSER	12"e	SUPPLY	WHITE	24"x24"	SURFACE	STEEL	YES	WITH TRIM FRAM
D-3	TITUS OMNI-1	ARCHITECTURAL UNI-FLO DIFFUSER	8°a	SUPPLY	WHITE	12"x12"	SURFACE	STEEL	YES	WITH TRIM FRAM
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	6"x4"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	8"x4"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	10"x4"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	12"x4"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	12"x8"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	14"x6"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	20"x12"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
G-1	TITUS PAR-3	PERFORATED FACE GRILLE	22"x22"	RETURN	WHITE	24"x24"	LAY-IN	STEEL	NO	
G-4	TITUS 8F-1	PERFORATED FACE GRILLE	22"x10"	RETURN	WHITE	24"x12"	SURFACE	ALUM	NO	
G-6	TITUS 350RL	LOUVERED FACE GRILLE	8"x6"	RETURN	WHITE	NECK +1.75"	SIDEWALL	ALUM	NO	
G-6	TITUS 350RL	LOUVERED FACE GRILLE	8"x14"	RETURN	WHITE	NECK +1.75"	SIDEWALL	ALUM	NO	
G-6	TITUS 350RL	LOUVERED FACE GRILLE	10"x4"	RETURN	WHITE	NECK +1.75"	SIDEWALL	ALUM	NO	
G-6	TITUS 350RL	LOUVERED FACE GRILLE	22"x12"	RETURN	WHITE	NECK +1.75"	SIDEWALL	ALUM	NO	
G-6	TITUS 350RL	LOUVERED FACE GRILLE	22"x16"	RETURN	WHITE	NECK +1.75"	SIDEWALL	ALUM	NO	
G-6	TITUS 350RL	LOUVERED FACE GRILLE	48"x36"	RETURN	WHITE	NECK +1.75"	SIDEWALL	ALUM	NO	
R-2	TITUS PAR-3	PERFORATED FACE REGISTER	22"x10"	RETURN/ EXHAUST	WHITE	24"x12"	LAY-IN	STEEL	YES	
R-6	TITUS 350RL	LOUVERED FACE REGISTER	8"x10"	RETURN/ EXHAUST	WHITE	NECK +1.75"	SIDEWALL	ALUM	YES	
R-6	TITUS 350RL	LOUVERED FACE REGISTER	10"x4"	RETURN/ EXHAUST	WHITE	NECK +1.75"	SIDEWALL	ALUM	YES	
R-6	TITUS 350RL	LOUVERED FACE REGISTER	10"x6"	RETURN/ EXHAUST	WHITE	NECK +1.75"	SIDEWALL	ALUM	YES	
R-6	TITUS 350RL	LOUVERED FACE REGISTER	14"x8"	RETURN/ EXHAUST	WHITE	NECK +1.75"	SIDEWALL	ALUM	YES	
R-6	TITUS 350RL	LOUVERED FACE	26"x22"	RETURN/	WHITE	NECK	SIDEWALL	ALUM	YES	

MECH	ANICAL DUCT INSULATION SCHEDULE					
INSULATION KEY	INSULATION DESCRIPTION	TYPE	THICKNESS (IN)	DENSITY (PCF)	TOTAL R	ACCOUSTICAL (NRC)
H01	RECTANGULAR DUCT IN CEILING SPACE WITH NO ROOF	LINER	1.0	1.5	4.2	0.70
H02	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF	LINER	1.5	1.5	6.0	0.80
	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF AND SPACE IS A RETURN PLENUM	LINER	1.0	1.5	4.2	0.70
H04	FLEXIBLE DUCT TO DIFFUSER	FLEX	1.5	~	6.0	~
H05	ROUND DUCT IN CEILING SPACE WITH NO ROOF	WRAP	1.5	0.75	4.2	~
H06	ROUND DUCT IN SPACE ADJACENT TO EXTERIOR ROOF	WRAP	2.1	0.75	6.0	~
	RECTANGULAR DUCT EXTERIOR TO BUILDING ENVELOPE. DOUBLE WALL WATER TIGHT CONSTRUCTION. WRAP NOT ACCEPTABLE	LINER	3.0	1.5	12	0.95
H08	ROUND DUCT EXPOSED IN CONDITIONED SPACE	N/R		~	~	~
H09	RECTANGULAR DUCT EXPOSED IN CONDITIONED SPACE	LINER	1.0	1.5	4.2	0.70
H10	ROUND OR RECTANGULAR OUTSIDE AIR DUCT	WRAP	5.0	0.75	12	~
H11	ROUND DUCT IN VENTILATED CRAWL SPACE	WRAP	5.0	0.75	12	~
H12	RECTANGULAR DUCT IN VENTILATED CRAWL SPACE	LINER	3.0	1.5	12	0.95
H13	BURIED ROUND DUCT	INTERNAL		~	6.0	N



WSHP 1 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-2	
OUTDOOR AIR RAYES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS A B C D E F G	H I J K	
A B C D E F G PACE NEW ZPACE NAWE NEA [2F] OCCUPANCY CLAZZIFICATION OCCUPANT DE PROPIE COUN PROPIE OA R AKE 118 TCPAN BURN AUCKLITTION: 228 O21-805-Office-open MEDIUW 1.01 6 2 8 6.25	A GA RAT PEOPLE GA (AREA GA (CF EPACE GA (C	
Grand total 1	30	
WSHP 2 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-2	
OUTDOOR AIR RATES HAVE BEEK ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS	AR SERVED THROUGH ERV-E	
A B C D E F G SPACE NUM SPACE NAME AREA (SF) OCCUPANCY CLASSIFICATION OCCUPANT DEPENDENT COUNTRIPORTE ON R ARE	H I J K A OA RAT PEOPLE OA (AREA OA (CF SPACE OA (C	D
113 EXISTING RESTROOM 74 021-805-Restroom 1 1 0.00	0.15 0 6 6 0.00 0 0 0	
128 CLOSET 13 021-80%-Storage-Room 1 1 0.00	0.15 0 2 2 0.08 6 7 13	
110 HALL 331 021-80%-Corridor 1 1 0.00	0.08 0 25 25 0.15 0 2 2	
109 SMALL FLEX ROOM 444 021-80%-Conference 50 23 6.25	0.08 144 33 177 0.15 0 40 40	
130 TRANSITION 42 021-80%-Corridor 1 1 0.00	0.08 0 3 3	
Grand total: 10	268	
WSHP 3 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-2	
OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION REFECTIVENESS	8 T T T T K	
SPACE NUM SPACE NAME AREA (SF) OCCUPANCY CLASSIFICATION OCCUPANT DE PROPER COUNTROPLE OA RARE	A OA RAT PEOPLE OA [AREA OA (CP SPACE OA IC	
119 FCPAN 37FUIO 677 D21-80%-Office-Open IIICH LOAD 8 6 6.25 Crond total 1	0.08 38 51 88 88	
WSHP 4 VENTILATION SCHEDULE		
OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS	AIR SERVED THROUGH ERV-2	
A B C D E F G	H J J K A OA BAT PROPLE OA (AREA OA (CF SPACE OA (C	
125 FIRST FLOOR STARS 217 021-805-Corridor 1 1 0.00 102	0.08 0 16 18 0.00 0 0 0	
101 ENTRY 214 021-805-Corridor 1 1 0.00 123 BUILDING ATTENDANT 81 021-805-Reception-Area 30 3 6.25	0.08 0 16 16 0.08 19 6 25	
126 ENTRY 62 021-805-Main-Entry-Lobby-Offic 10 1 6.25	0.08 6 5 11	С
		□ ✓ INTEGRATED
WSHP 5 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-2	LY MECHANICAL
OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS A B C D E F G	H I J K	320 MAPLE ST, SUITE 110
SPACE NUM ZPACE NAME AREA [37] OCCUPANCY CLASSIFICATION OCCUPANT DE PROPLE COUN PROPLE ON R ARI 122 ZUPERFIEX ROOM 1308 O21-80%-Office-Open n ft 6,25	A OA RAT PROPIE OA (AREA OA (CF SPACE OA (C O.OB 69 9B 167	FORT COLLINS
108 HALL 375 021-805-Corridor 1 1 0.00 Grand total 2	0.08 0 28 28	COLORADO 80521
WSHP 6 VENTILATION SCHEDULE		INT-MECH.COM
OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS	AIR SERVED THROUGH ERV-1	970-556-0570 FRONT-DESKØINT-MECH.COM
A B C D E F G	H I J K	FHON I-DESKGIN I-MECH.COM
27 ELEC 2TORAGE 246 021-80%-Storage-Room 1 1 0.00	A OA RAT PEOPLE OA I AREA OA (CF EPACE OA)F 0.15 0 37 37 37 0.006 613 61 621	
40 GALLERY 1 816 021-80%-Assembly-Multipurpose- 120 98 6.25 Grand total: 2	0.08 613 61 67.1	COLUDO LICANO
WSHP 7 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-1	
OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR BO% DISTRIBUTION EFFECTIVENESS	AIR SERVED THROUGH ERV-1	9.4
A B C D E F G ZPACE KUM ZPACE KAME AREA (ZF) OCCUPANCY CLASSIFICATION OCCUPANT DE PROPLE COUNTREDE DA RIAGE	B J J K A OA RAT PROPER OA I AREA OA CET SPACE OA (C	SIONAL ENGINEER
24 CALLERY 2 628 021-805-Assembly-Multipurpose- 120 76 6.25 31 DEPLAY 101 021-805-Storage-Room 1 1 0.00	0.08 975 17 522 0.10 0 15 15	15 SEPT 2022
32 VESTORULE 52 021-805-Vein-Entry-Lobby-Offic 10 1 6.25 Grand total 3	0.08 6 4 10	В

WSHP 8 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-1	workshop
DUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS A B C D E F G	H I J K	ARCHITECTS+ URBANISTS *
A B C D E E P C D E E P C D E E P C D E E P C D E E P C D E E E P C D E E P C D E E P C D E E P C D E E P C D E E P C D E E P C D E E P C D E E P C D E E P C D E E E P C D E E E E E E E E E E E E E E E E E E	A OA RAT PEOPLE OA (AREA OA (CV SPACE OA (C 0.08 619 61 680	401 LINDEN STREET, SUITE 2-221 FORT COLLINS, CO, 80524
rand total 1	680	T - 970.430.5220 T - 970.430.5220 www.auworkstop.co
WSHP 9 VENTILATION SCHEDULE	AIR SERVED THROUGH ERV-1	© 2021
OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS		FC CARNEGIE
A B C D E F G PAGE KUM ZPAGE KAME AREA [ZY] OCCUPANCY CLASZIFICATION OCCUPANT DE PROPLE COUN PROPLE OA R ARE	A OA RAT PEOPLE OA [ABEA OA [CF SPACE OA 1C	FC CARNEGIE
25 DECORD FLOOR STARTS 365 O21-805-Corridor 1 1 0.00 33 OPER OFFICE 3 811 O21-805-Office-Open 8 7 6,25	0.08 0 27 27 0.08 44 61 105	
35 CALLERY 4 601 021-805-Corridor 1 1 0.00 Cred 1048 3	0.08 0 45 45 177	
WSHP 10 VENTILATION SCHEDULE		CITY OF FORT
	AIR SERVED THROUGH ERV-1	COLLINS
A B C D E F G	н тук	FORT COLLINS, CO
28 MECHANICAL 241 021-805-2torage-Room 1 1 0:00	A OA RAT PEOPLE OA [ARKA OA (CV ZPACK OA (C 0.15 D 37 37	
29 OPEN OFFICE 2 745 OZI-805-OFFICE OFFI 30 BREAK 122 ODE-805-Freek 5 1 6.25	0.08 38 56 93 0.08 6 9 15	
Frond Total 3	145	. PPO IECT #: 04 007

ELECTRIC HEATER SCHEDULE

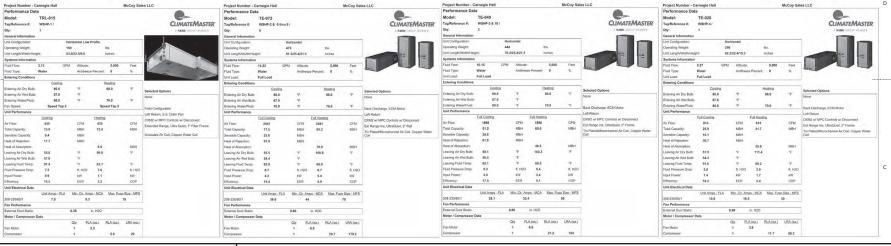
NUMBER MAKE & MODEL NUMBER ORIEN TOTAL

ATTOM
WATER EH-1 MARKEL HF3325TD-RP 1 HEATER IS MULTIPLE WATTAGE, WIRE TO SCHEDULED WATTAGE AT TIME OF INSTALLATION. AMPS LISTED ARE MAXIMUM FOR THE HEATER AT MAXIMUM WATTAGE PROJECT #: 21-207 ISSUE DATE: 09/15/2022

MECHANICAL SCHEDULES

M8.2

WSHP-1,2,3,4,5,6,7,8,9 & 10





320 MAPLE ST, SUITE 110 FORT COLLINS COLORADO 80521

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CITY OF FORT COLLINS FORT COLLINS, CO

PROJECT #: ISSUE DATE:

21-207 09/15/2022

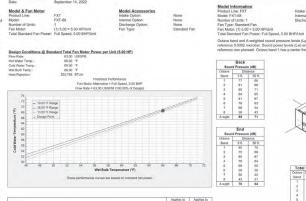
MECHANICAL SCHEDULES

M8.3

CT-1







Baltimore Aircoil Company Cooling Tower Selection Report

8.11.17 NA July 29, 2022

One or more selection parameters are outside of CTI Certification limits.

Model & Fan Motor

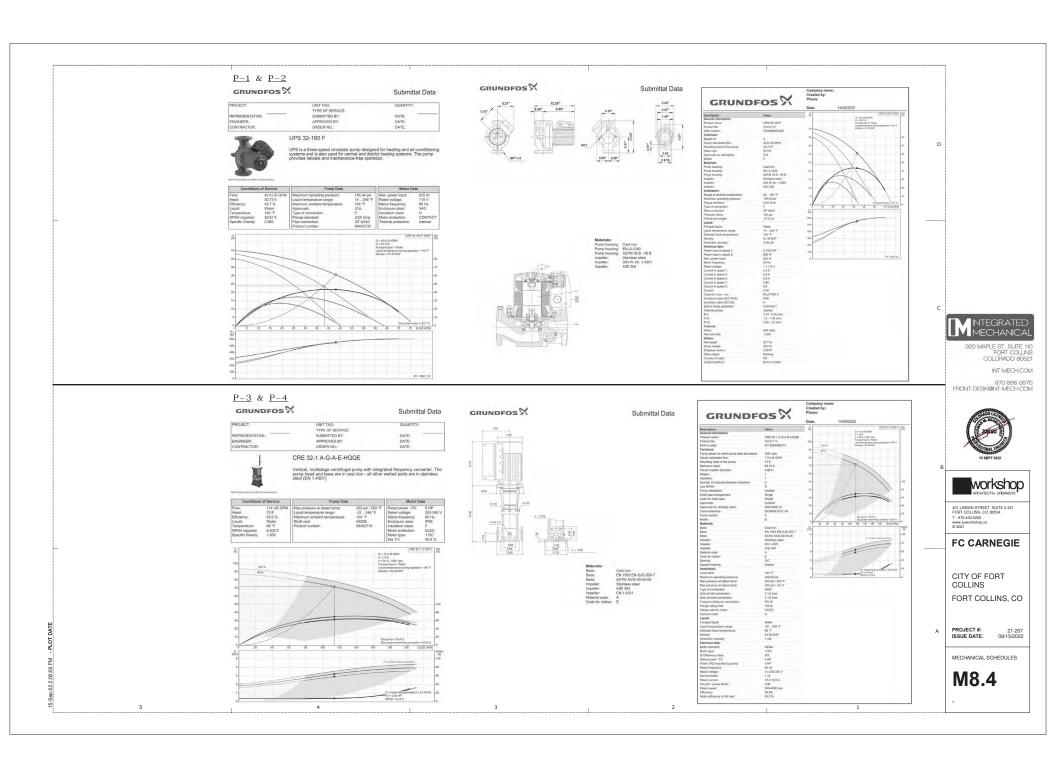
red, 5.00 BHP						
00% of Design)		2	81	68		
UU% of Design)		3	85	71		
		4	84	65		
	and the same of th	5	81	67		1/1
- Lander		6	76	63		//0/
		7	68	54	6	1 1
		8	58	43	1	AND MARKET
		A-wgtd	85	71		10000000000000000000000000000000000000
					195	
		Sound	End d Pressur	e (dB)	/	
		Octave		ance		
		Band	5 ft.	50 ft.		
		1	80	70		
		2	75	69		
		3	80	67		
		4	76	64		
62 64 66 68	70 72	5	68	55		
dure (°F)		6	59	50	Tota	al Sound Power
		7	50	43	Band	
n constant fan power.		8	43	31		(Hertz) 63
		A-watd	76	64	1	
					2 3	125
						500
	-				4	
Applies to	Applies to				5	1000
Design	OffDesign				6	2000
Conditions	Conditions				7	4000
Yes	Yes				8	8000
						A-wgtd

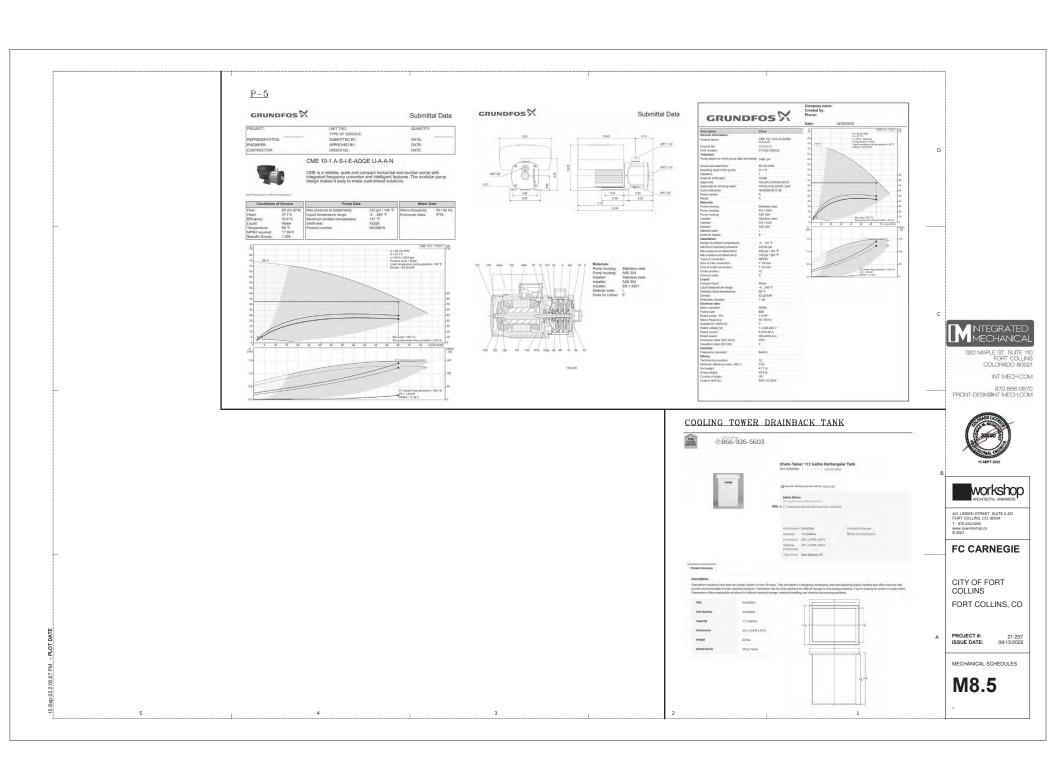
er (dB) Lw 100 100 102 98 93 88 88 76 99 Air Inlet

Note: The use of frequency inverters (variable frequency drives) can increase so.

Extra Notes: Sound data provided by CTI ATC-128 sound test code revision 2019 1

Cooling Tower Selection Report





GENERAL PLUMBING NOTES

- PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE CODES. PERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING RID OR COMMENCING WORK. THE PLUMBING DESIGN IS BASED ON THE 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL PLUMBING CODE.
 WASTE AND VENT PIPING BELOW SLAB SHALL BE SCHEDULE 40,
 DWV, PVC, PLASTIC. FITTINGS SHALL BE PVC.
 WASTE AND VENT PIPING ABOVE SLAB (NOT IN RETURN AIR PLENUM) SHALL BE SCHEDULE 40, DWV, PVC, PLASTIC. FITTINGS SHALL BE PVC.
- POTABLE WATER PIPING BELOW GRADE SHALL BE TYPE K, SOFT DRAWN, COPPER WITHOUT JOINTS.

 POTABLE WATER PIPING ABOVE GRADE, LARGER THAN 2°,
- SHALL BE TYPE L COPPER WITH SOLDERED COPPER FITTINGS AND NO LEAD SOLDER UNLESS NOTED OTHERWISE.
- AND NO LEAD SOLDER UNLESS NOTED OTHERWISE.

 POTABLE WATER PIPING 2" AND SMALLER SHALL BE PEX-A
 THINING MANUFACTURED BY UPONOR WITSON OR APPEROVE

 EVALUATION OF THE PEROPE OF THE PEROPE OF THE PEROPE

 EVALUATION OF THE PEROPE OF THE PEROPE

 FOR A STATE OF THE PEROPE

 GALVANZED TROUGHS OR CHARMELS HUNG AT MAXIMUM BY

 HATERIALS. UNEXPORTED PER WAY NOT EXCEED 32".
- PUSH-TO-CONNECT PLUMBING FITTINGS (I.E. SHARKBITE OR SIMILAR) AND PULLED TEE FITTINGS WILL NOT BE ACCEPTED
- POTABLE WATER VALVES SHALL BE FULL PORT BALL TYPE
- GAS PIPE 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL FITTINGS SHALL BE MALLEABLE SCREW TYPE.
- GAS PIPE 2.5" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL FITTINGS SHALL BE FULLY WELDED
- STEEL FITTINGS SHALL HE FULLY WELDED.

 INSTALL UNION, GAS COCK AND FULL SIZE 6" LONG DIRT LEG
 FOR ALL GAS FIRED EQUIPMENT.

 INSTALL FULL SIZE CONDENSATE AND TRAP FOR ALL COOLING 12
- COILS. DISCHARGE FULL SIZE DRAIN TO MOP SINK OR LAVATORY P-TRAP TAILPIECE AND TO ROOF FOR ROOFTOP UNITS.
- HANGING, ANCHORING AND SUPPORT OF EQUIPMENT, PIPING AND ACCESSORIES IS DESIGN BUILD BY THE PC. THE SUPPORTS SHALL MEET CODE.
- ALWAYS INSTALL EQUIPMENT PER MANUFACTURER'S
- PRIOR TO BUILDING TURNOVER THE POTABLE WATER SYSTEM PRIOR TO BUILDING TURNOVER, THE POTABLE WATER SYSTEM SHALL BE CLEAKED AND DISHFECTED PER PIC SECTION 610. THE SYSTEM SHALL BE FUSHED, CHLORINATED AND PURCED. REPEAT OWN.THE SYSTEM SHALL BE FUSHED, SHOWEN TO PASS BACTERIAL EXAMINATION. A REPORT SHALL BE SUBMITTED TO THE ARTHAU SHALL BE SUBMITTED TO THE ARTHAU SHALL BE.

GENERAL MECHANICAL REQUIREMENTS:

CODES AND PERSITS

WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES, REGULATIONS AND

ORDINANCES, PERSITS NECESSARY FOR PERFORMANCE OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR. PRE-BID

FOR EXISTING BUILDINGS THE BIDDERS SHALL PERFORM A BUILDING AND SPACE SITE VISIT PRIOR TO BID THE ACT OF SUBMITTING A BID INDICATES THE BIDDER DOES AGREE THEY HAVE A FULL UNDERSTANDING OF THE SCOPE OF WORK INVOLVED WITH THE EXISTING CONDITIONS.

DRAWINGS AND COORDINATION

DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC IN NATURE. AND ARE NOT INTENDED TO BE SCALED FOR EXACT MEASUREMENTS NOR TO SERVE AS SHOP DRAWINGS CHANGES FROM THE PLANS MADE WITHOUT CONSENT OF THE ENGINEER SHALL RELIEVE THE ENGINEER OF RESPONSIBILITY FOR ALL CONSEQUENCES ARRIVING OUT OF SUCH CHANGES INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE CONDITIONS PROUIDE REASONABLE CHANGES TO THOSE INDICATED ON THE DRAWINGS, MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE

WARRANTY

WORKMANSHIP, MATERIALS, EQUIPMENT AND PROPER OPERATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FRAIL ACCEPTANCE FROM THE OWNER INITIAL ACCEPTANCE OF WORK SHALL NOT WAIVE THIS GUARANTEE. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN EQUIPMENT OPERATION AND MAINTENANCE MANUALS.

CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER A PORTABLE DOCUMENT FORMAT "PDF" COPY OF SUBMITTAL

BROCHURES FOR REVIEW. PROVIDE INFORMATION ON ALL MAJOR EQUIPMENT AS LISTED ON DRAWING EQUIPMENT SCHEDULES, AS WELL AS VALVES, DUCTWORK ACCESSORIES AND TEMPERATURE CONTROL DIAGRAMS AS APPLICABLE.

AS WELL AS VALVES, DUCTIONS ACCESSIONS AND TEMPERATURE CONTROL BIOLEGAMS AS APPLICABLE.

CONTRACTOR SHALL FURNISH AT THE COMPLETION OF THE PROJECT A PORTABLE DOCUMENT FORMAT "POP" COPY OF
COMPLETE OPERATION AND MAINTENANCE MANUALS TO HE MORTHEST/ASCHRICER FOR ENVIRE PRIOR TO THIRDWER TO
ORNER. MANUALS TO HE BORNO AND INCLIDE INSTALLATION INSTRUCTIONS, REPLACEMENT PARTS LISTS AND MAINTENANCE
TOWNSHAMO AND ALL DEPURMENT AS DESCRIBED IN THE SEMENTIALS SETLING, COMPLETED OFFICIATION AND MAINTENANCE. MANUALS ARE TO BE FORWARDED TO THE OWNER WITHIN 90 DAYS AFTER OWNER BUILDING ACCEPTANCE. PRODUCT SUBSTITUTIONS

PRODUCT SUBSTITUTIONS
MANUFACTURER DODE, NUMBERS LISTED ON THE DRAWINGS AND/OR SPECIFICATIONS ARE TO BE CONSIDERED AS THE
BASIS OF DESIGN. WHERE TWO OR MODE ALTERNATE MANUFACTURERS OR MATREMAS ARE LISTED. THE CHOICE OF THISE
SHALL BE OPTIONAL WITH THE CONTRACTOR. PRIOR TO THE AVARBING OF THE CONTRACT, CONTRACTOR MAY REQUEST A
PROPOSED SUBSTITUTION OF MATREMAS IN WRITING TO THE ARCHITECT/ENGIGNER NO LATER THAN SEVEN DAYS PROF TO THE RECEIPT OF BIDS. THE COST OF ANY CHANGES REQUIRED BY OTHER TRADES, INCLUDING A/E DESIGN, DUE TO THE USE OF EQUIPMENT AND/OR MATERIALS OTHER THAN THAT OF THE BASIS OF DESIGN SHALL BE PAID BY THE CONTRACTOR

CONTRACTORS SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF MARKED UP DRAWINGS SHOWING ACTUAL LOCATIONS OF INSTALLED WORK. THESE DRAWINGS ARE TO BE FORWARDED TO THE OWNER AS PART OF THE OPERATION AN MAINTENANCE MANUALS AT THE COMPLETION OF THE PROJECT.

ACCESS DOORS
PROVIDE ALL ACCESS DOORS/PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, CONTROL DEVICES, FILTERS AND ANY OTHER ITEMS FOR WHICH ACCESS IS REQUIRED FOR EITHER OPERATION OR SERVICING. WHERE ACCESS DOORS ARE TO BE INSTALLED IN ASSEMBLIES REQUIRED TO HAVE A SPECIFIC FIRE RATING, ACCESS DOORS SHALL ALSO BE FIRE

TABLE.

PERICA AND DUCTFORK SEALANT THROUGH EATTD ASSUMBLES
PERSTRATIONS SHALL BE SEALED AS REQUIRED IN ACCORDANCE WITH BUILDING AND MECHANICAL CODES TO RESIST THE
PERSOLE OF TALRE AND PRODUCTS OF COMBUSTION IN ORDER TO MAINTAIN THE RESISTANCE RATING OF THE
CONSTRUCTION BEING PERSTRATE.

PROTECTION OF MATERIALS AND EQUIPMENT
CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK, MATERIALS, AND EQUIPMENT PROVIDED UNDER THIS SECTION. PIPE OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS TO PREVENT THE ENTRANCE OF DEBRIS DURING CONSTRUCTION. ALL DUCTWORK OPENINGS SHALL BE SEALED CLOSED DURING CONSTRUCTION.

ALTITUDE SUPPLIERS SHALL CONFIRM THAT ALL EQUIPMENT BEING FURNISHED IS APPROPRIATE FOR USE AT THE ALTITUDE OF THE SITE.

CEPTIBLES SHEEL CONTING HIM ALL DECETIBLES INDICATED SHEET SHEET CONTINUE OF HIM AS EQUIPMENT AND PROVIDE DESTRIPTIONS.
PROVIDE CRUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLIDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, VAN HOUXES, CONTROLS, DAMPERS, CONTROL VALNES AND PUMPS.
PROVIDE PIPE MARKERS ON CV., HE AND HIM SYSTEMS LIBELS TO BE AT MAXIMUM B FEET APART, WITH FLOW DIRECTION.

ADDITIONALLY, PROVIDE LABELING ON POTABLE WATER MANIFOLDS INDICATING PLUMBING FIXTURE SERVED BY THE OUTLET, AS APPLICABLE.

AS APPLICABLE.

LABELS SHALL BE AFFIXED OR ADHERED PERMANENTLY TO EQUIPMENT. EQUIPMENT INSTALLED INDOORS TO BE LABELED. WITH EMBOSSING TAPE

WITH EMBOSSING TAPE. EQUIPMENT INSTALLED OUTDOORS TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS.

PIPE MARKERS TO BE SELF-ADHESIVE. MANUFACTURED FOR SUCH PURPOSE

STARTERS AND DISCONNECTS

EQUIPMENT STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR EQUIPMENT DISCONNECTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWIS ON THE DRAWINGS. STARTERS SHALL BE NEMA TYPE, AND SHALL INCLUDE PHASE MONITORING FOR MOTORS 5 HP AND

TESTING

TESTING SHALL BE PERFORMED ON THE FOLLOWING SYSTEMS SPECIFIED ALL SYSTEMS LISTED MAY NOT BE INCLUDED IN

TESTING STALL BE PERFORMED ON THE POLLUMING SYSTEMS SPECIFIED. ALL SYSTEMS ISSUED MAY NOT BE NOLLIGIBLE SYSTEMS. SPECIFIED AND SYSTEMS IN STATE AND STORM DEBANGE PHYRICABLE SYSTEMS. SOIL, WASTE AND STORM DEBANGE PHYRICABLE STEMS THE STATED BY DEVELOP MAY ADDRESSED WATER SYSTEMS AND PHYRICABLE SYSTEMS PHYRICABLE SYSTEMS AND PHYRICABLE SYSTEMS AND PHYRICABLE SYSTEMS

BUT NO LESS THAN 3 PSIG, FOR A PERIOD OF 24 HOURS WITHOUT PRESSURE DROP

SYSTEM BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR, BALANCE ALL SYSTEMS INCLUDING SYSTEM BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR BALANCIN ALLIEVA AND STREEM SENCITORIS. MEMILIFICATE OAM DE PARTON ALLO PERMONE, AMAD PUEMPE DA MERI SENTEME SECULOMO BOUSETTO WATER EXECUTIVATION SYSTEMS SA SEPURCABLE. MARKE ANY ADMINISTRATEN'S NECESSARY TO RESULT IN COMMITIONS ROBCATED AND POWEME EXCENSIVE TO TRESSLE IN THE SECULOR STREEM, AND ALLANCE BEFORE TO MAKE ANY ADMINISTRATION OF ANY AND ALLIEVA AND BALANCE REPORT FOR A PRIORITY. FAN AND PUEM SYSTEMS TO BE BALANCED WITHIN PLUS ON MINIST S PRICINCT OF LISTED ALGALES. ARE MALET AND OUTLINES TO BE BALANCED WITHIN PLUS ON MINIST S PRICINCT OF LISTED ALGALES. ARE MALET AND OUTLINES TO BE BALANCED WITHIN PLUS OF PERCENT OF MINISTRATION. LISTED VALUES. BALANCE REPORT TO INCLUDE:

MANUFACTURER AND NAMEPLATE DATA

EQUIPMENT NAMEPLATE AMPERAGE AND ACTUAL AMPERAGE

UNIT IDENTIFICATION

EQUIPMENT NAMERIATE AMPERAGE AND ACTUAL AMPERAGE
FAN CRY (DESIGN AND ACTUAL)
FAN CRY (DESIGN AND ACTUAL)
FUND (POM (DESIGN AND ACTUAL)
PUMP (POM (DESIGN AND ACTUAL)
PUMP (DISCHORE AND ACTUAL)
PUMP (DISCHORE AND ACTUAL)
REGISTRE, GHILLE, DIFFUSER REFERENCE NUMBER AND LOCATION
NAME (AUTHOR CRY (DISCHORE) AND ACTUAL)

INLET/OUTLET CFM (DESIGN AND ACTUAL) FLOW DEVICE PRESSURE DROP, CFM OR GPM

A FINAL BALANCING REPORT SHALL BE PROVIDED TO THE OWNER AFTER COMPLETION OF THE PROJECT.

CLEANING AT THE COMPLETION OF WORK, ALL FIXTURES AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND DELIVERED IN A A THE CONTINUE OF ROTE, ALL FATURES AND EQUIPMENT SHALL BE THOROUGHLY CLEARED AND DELIVERED IN A CONTINUE ASSESSMENT TO THE ARCHITECT. ALL FILTERS SHALL BE REPLACED WITH NEW PRIOR TO OWNER ACCEPTANCE OF THE BUILDING.

INSULATION NOTES AND PLUMBING ENERGY CODE

- THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.
- INTERNATIONAL BARREY CONSERVATION CODE.

 COMMERCIAL POTABLE HOT WATER PIPING, < 140 DEG F,
 SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL
 SERVICE ARKET, HAVING MANUAU N° FACTOR OF 0.27.

 INSULATION THICKNESS SHALL BE

 1.5° FOR PIPES LARGER THAN 1.5°

 1.5° FOR PIPES LARGER THAN 1.5°
- COMMERCIAL POTABLE HOT WATER RECIRCULATION PIPING, ≤ 140 DEG F, SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL SERVICE JACKET, HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE: • 1" FOR 1.5" PIPE AND SMALLER * 15" FOR PIPES LARGER THAN 15"
- * 1.5 FOR PIPES LARGER THAN TABLE OF COMMERCIAL POTABLE COLD WATER PIPING SHALL BE INSULATION WITH ALL SERVICE JACKET HAVING MAXIMUM 'F, PACTOR OF 0.27'. INSULATION THICKNESS SHALL BE 0.5'. DO NOT REMOVE THIS ITEM FROM THE PROBLET AS IT IS REQUIRED FOR COMDENSATE CONTROL.



D

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FC CARNEGIE

CITY OF FORT COLLINS FORT COLLINS, CO

PROJECT #:

21-207 ISSUE DATE: PLUMBING NOTES. LEGEND, AND DRAWING

P_{0.1}

PR 1 PLUMBING SCHEDULES

PLUMBING FLOOR PLANS P7.1 PLUMBING DETAILS AND ISOMETRICS

HEET NAME

PLUMBING LEGEND:

WASTE PIPING

---0

SHT #

101

SHEET

CW COLD WATER PIPING

—HWC— HOT WATER CIRC. —H♥— GAS COCK

____TW____ TEMPERED WATER ______PRESS. RED. VALVE

——v— VENT PIPING ————— T & P RELIEF VALVE

CW-CPEASE WASTE DIDING-O-BALANCE VALVE

CA— COMP AIR PIPING —ORD— OVERFLOW RD PIPE

--е-п

LE.

(N)

(E)

(R)

PIPE ELBOW DOWN ——O

F— FIRE PIPING ——

LP— PROPANE PIPING —

- PIPE TEE UP

PIPE TEE DOWN

DETAIL X

SHEET #

REFERENCE

OR ISOMETRIC

PLUMBING DRAWING INDEX

PO.1 PLUMBING NOTES, LEGEND, AND DRAWING INDEX P2.1 PLUMBING FLOOR PLANS

SOLENOID VALVE

PIPE CAP

ROOF DRAIN

WALL CLEANOUT

INVERT ELEVATION

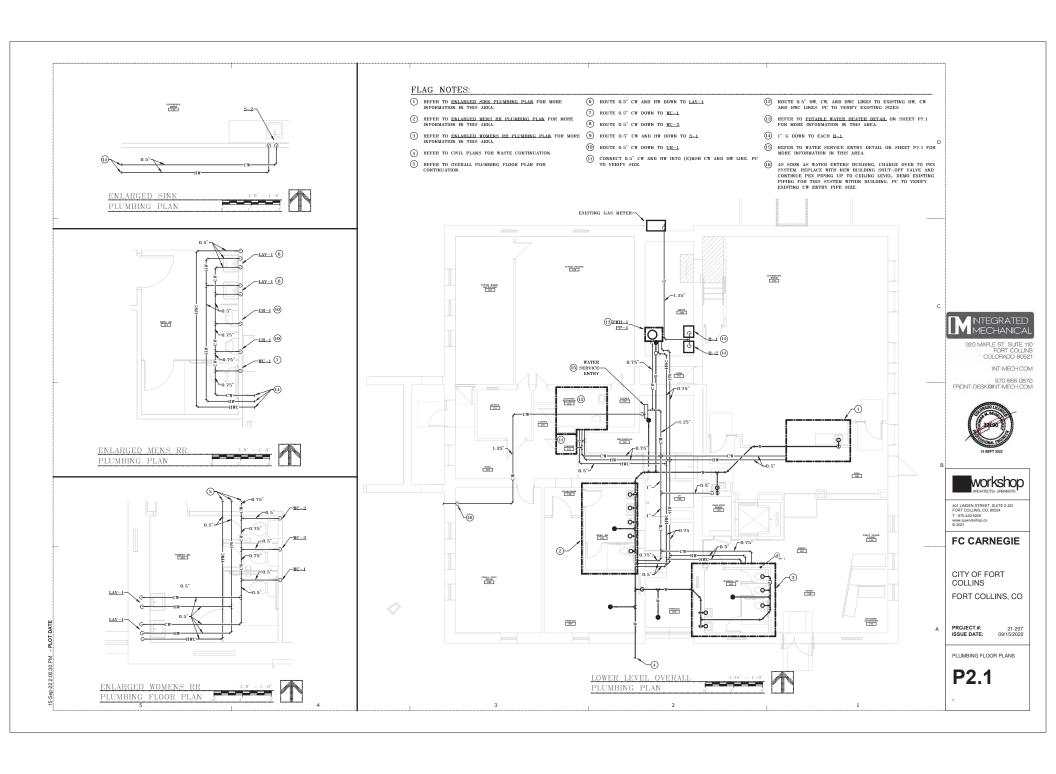
-@ - FLOOR DRAIN/SINK

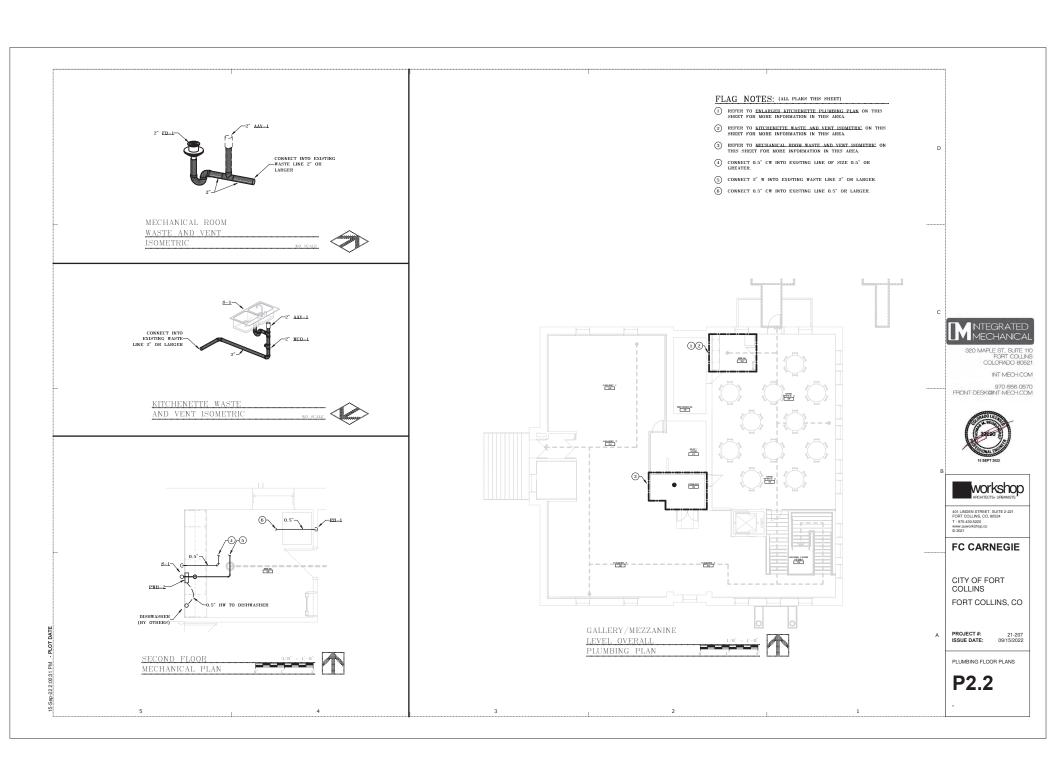
EXISTING

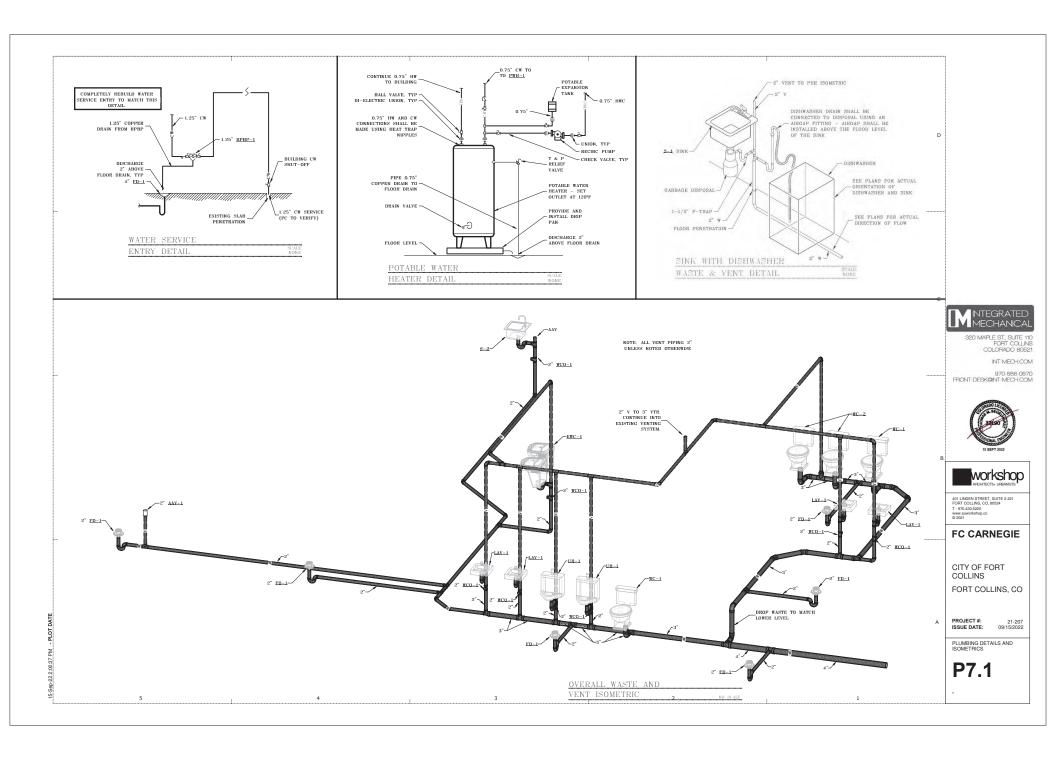
RELOCATE

PIPE CONTINUATION

FLOOR/GRADE CLEANOUT



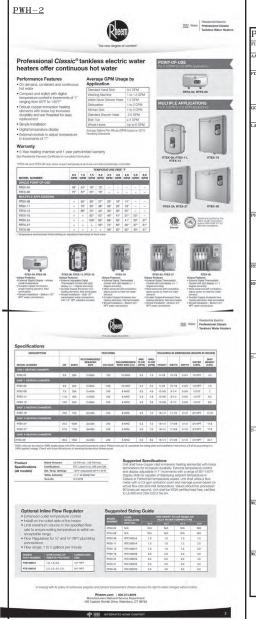


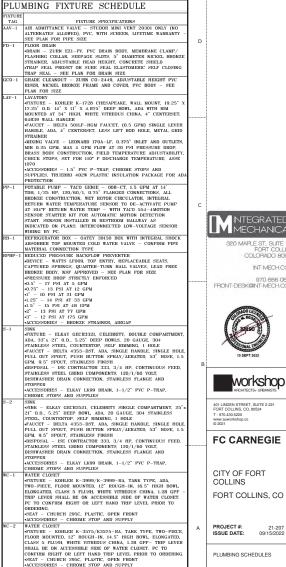




NOTE: PC TO CONFIRM EXISITING GAS DELIVERY PRESSURE IS 6" W.C IF GREATER, PC TO PROVIDE AND INSTALL A GAS PRESSURE REGULATOR AT EACH PIECE OF GAS FIRED EQUIPMENT.







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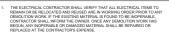
FC CARNEGIE

CITY OF FORT

21-207 09/15/2022

PLUMBING SCHEDULES

P8.1



- VERIFICATION OF EXTING CONTINGS OF AN AUCH AS THE REMODELING AMOUNT RIPHARD THOSE OF THE EXISTING BULDING REQUIRES THAT CERTAIN AMOUNT RIPHARD THOSE OF THE EXISTING BULDING REQUIRES THAT CERTAIN OF THE EXISTING OF THE EXISTING OF THE SERVICE OF THE EXISTING OF THE SERVICE OF THE EXISTING OF THE EXISTI
- ALL PHASES OF THE ELECTRICAL WORK SHALL BE COORDINATED WITH THE ARCHITECT. WORK SHALL BE DONE IN A FASHION TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW ALL DRAWINGS FOR WORK UNDER THIS CONTRACT. ROOF PLANS AND REFLECTE CEILING PLANS DESCRIBE ELECTRICAL WORK, NO EXTRAS WILL BE ALLOWED FOR WORK SHOWN ON MECHANICAL AND ARCHITECTURAL DRAWINGS.
- ELECTRICAL DEVICES NOTED TO BE REMOVED SHALL BE REMOVED BACK TO A POINT WHERE EXISTING CONDUIT CAN BE ABANDONED IN CONCEALED SPACE I WHERE EAS INS CONCEALED SPACES.

 REMOVE ALL WIRING FROM ABANDONED CONDUIT. ALL BOXES TO BE REMOVED SHALL BE TAKEN OUT OF WALLS AND HAVE HOLES REFINISHED TO MATCH WALL FINISH.
- ELECTRICAL CONTRACTOR SHALL NOT DEFACE ANY AREAS OF THE BUILDING WHERE REMODELING IS NOT BEING DONE.
- THE ELECTRICAL CONTRACTOR SHALL BE ON SITE DURING ALL ELECTRICAL INSPECTIONS. NO ADDITIONAL FEES OR OVERTIME WILL BE PAID FOR AFTER HOURS INSPECTIONS.
- RACEWAYS: ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. CONDUIT SHALL NOT BE EXPOSED IN FINISHED AREAS (EXCLUDES MECHANICAL ROOMS, STORAGE CLOSETS, AND SIMILAR AREAS), EXPOSED RACEWAYS SHALL BE SURFACE RACEWAYS PER SPECIFICATIONS.
- SURFACE RACEWAY: WHEREVER CONCEALED CONDUIT IN FINISHED AREAS IS NOT POSSIBLE, ELECTRICAL CONTRACTOR SHALL INSTALL SURFACE MOUNTED STEEL RACEWAYS EQUAL TO WIREMOLD, RUN SURFACE RACEWAYS IN CORNER OF WALL AND CELLING, ALL RACEWAYS THAT ARE EXPOSED SHALL BE APPROVED BY
- TERMINATING AND SPLICING: MAKE ALL JOINTS AND SPLICES IN BRANCH CIRCUIT WIRING WITH APPROVED SOLDERLESS TOOL APPLIED OR TWIST.ON CONNECTORS, IN THE VARIOUS BOXES, GUTTERS, AND SIMLAR LICCATIONS, BUT NOT IN RACEWAYS, LEAVE SUFFICIENT SLACK TO PERMIT TWO (2) OR MORE SPLICES OR JOINTS TO BE REMADE IN CASE OF FAULT.
- NM (ROMEX CABLE) OR AC CONDUIT WILL NOT BE ALLOWED ON THIS PROJECT. ENT WILL NOT BE ALLOWED ON THIS PROJECT. FLEX CONDUIT OR FIXTURE WHIPS, LONGER THAN SIX FEET, WILL NOT BE ALLOWED ON THIS PROJECT. WIRE SPLICES IN CONDUIT BODIES ARE NOT ALLOWED ON THIS PROJECT.
- MC CABLE WILL BE ALLOWED ON THIS PROJECT. EXCEPT FOR THE FOLLOWING: A: IN EXPOSED AREAS.

 B: ALL FEEDERS AND MECHANICAL CIRCUITS (SHALL BE IN CONDUITS.)

 C: AS PROHIBITED BY N.E.C.
- ELECTRICAL CONTRACTOR SHALL RECEIVE, FROM SYSTEM SUPPLIERS, ALL WIRING DIAGRAMS FOR ALL EQUIPMENT, PRIOR TO ANY ROUGHIN, TO ASSURE PROPER ELECTRICAL CONTRACTERISTICS, ARE PROVIDED. ELECTRICAL CONTRACTOR SHALL PROVIDE ARCHITECT WRITTEN NOTIFICATION PRIOR TO ROUGHIN, THAT ALL WIRING DIAGRAMS HAVE BEEN RECEIVED AND REVIEWED FOR CORRECTERS. ANY INCORRECT WIRING OR DEVICES INSTALLED BY ELECTRICAL CONTRACTOR WITHOUT WIRING DIAGRAMS SHALL BE CORRECTED AT ELECTRICAL CONTRACTOR'S EXPENSE.
- ELECTRICAL CONTRACTOR SHALL RECEIVE FROM MEDIAMICAL CONTRACTOR ALL WIRRED DIAGNAMEN AND SHE'D PROMININGS FOR ALL MEDIAMICAL ECONOMISM, PROCEEDINGS FOR ALL MEDIAMICAL PROPERTY OF THE PROSE PROSE PROVIDED ELECTRICAL CONTRACTOR SHALL PROVIDE ARCHITECT WHITTEN HOTFICATION FROM TO MAY RECEIVED AND SHAPE WIRRED AND SHAPE AND SHAPE
- COORDINATE WITH MECHANICAL CONTRACTOR LOCATION AND INSTALLATION OF AN ELECTRICAL CONTROLS FOR MECHANICAL UNITS. PROVIDE UNSWITCHED 120 VOLT
- ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL DEVICE LOCATIONS IN ALL CASEWORK WITH ARCHITECTURAL CASEWORK DETAILS PRIOR TO ANY ROUGH-IN
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DEVICE LOCATIONS WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DIAGRAMS.
- ELECTRICAL CONTRACTOR SHALL VERBY FRAIL LOCATIONS OF ALL SINKS WITH PLUMBING CONTRACTOR PRIOR TO ROUGHAN ANY ELECTRICAL DEVICES LOCATED MOVING COOP AND EBBRING PRIOR SHALL SH
- BACK TO BACK RECEPTACLES ARE NOT PERMITTED. MAINTAIN SEPARATION OF AT LEAST ONE STUD REFER TO ARCHITECTURAL ACQUISTICAL DETAILS. IF BOXES ARE WITHIN 24" OF EACH OTHER IN A FIRE RATED WALL A FIRE BARRIER MOLDABLE PUTTY (3M OR EQUIVALENT) SHALL BE USED.

FEED THROUGH GFCI PROTECTION OF RECEPTACLES IS ACCEPTABLE ONLY WHERE RECEPTACLES ARE IN SAME ROOM AND DRAWINGS DO NOT INDICATE OTHERWISE. 22. PROVIDE BLANK COVER PLATES AND INSTALL THEM ON ALL UNUSED ROUGH-INS.

INSTALL PIGTAIL AT ALL RECEPTACLES FOR FINAL CONNECTIONS

GENERAL CONSTRUCTION NOTES

- ALL NEW ELECTRICAL ITEMS SHOWN ON EXISTING WALLS AND CEILINGS SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. CUT AND PATCH EXISTING WALLS AND CEILINGS TO CONCEAL ALL MOUNTING BOXES AND CONDUIS
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GC TO MAINTAIN FIRE RATINGS FOR ALL CONDUIT PENETRATIONS, INCLUDING CONDUIT SLEEVES, THROUGH FIRE RATED CONSTRUCTION. THIS INCLUDES SEALING ALL SPARE CONDUITS (IT, FIRE ALARM, SPECIAL SYSTEMS, ETC.).
- THE THE CONTRACTIONS RESPONSIBILITY TO MEASURE THE LIFECTION AND WESTER ADMINISTRATION OF THE WASHINGTON OF THE ADMINISTRATION OF THE WASHINGTON OF THE ADMINISTRATION OF THE WASHINGTON OF THE
- GC): COORDINATE HEIGHT REQUIRED FOR ADDITIONAL TENTING WITH CEILING AND MECHANICAL CONTRACTORS. REFER TO ARCHITECTURAL DRAWINGS.
- FIXTURE WHIPS SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING. LAYING FIXTURE WHIPS ON TOP OF THE GRID OR SUPPORTING USING THE FIXTURE HANGERS IS NOT ALLOWED. FIXTURE WHIPS SHALL NOT CONTACT PLUMBING
- RFI OCATIONS: OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICA
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF ALL ELECTRICAL DRAWNISC ARE DUGBRAMANTO GALV PRACE LOCATION OF ALL

 THE CONTROL OF A LICENSE AND A LICEN
- EMT CONDUIT FITTINGS: DRY LOCATIONS ALL EMT COUPLERS AND CONNECTOI SHALL BE STEEL SET SCREW TYPE. DIE CAST FITTINGS SHALL NOT BE USED OF THIS PROJECT. DAMPIWET LOCATIONS, USE STEEL COMPRESSION GLAND TYPI COUPLER AND CONNECTORS.
- ALL WIRING INCLUDING SPECIAL SYSTEMS/LOW VOLTAGE THAT IS IN AN EXPOSED CEILING AREA SHALL BE IN CONDUIT. ALL SPLICES SHALL BE IN J-BOXES.
- ACCESS PANELS REQUIRED BY THE ELECTRICAL CONTRACTOR SHALL BE PROVIDED BY THE ELECTRICAL BID CONTRACTOR, THEN TURNED OVER TO THE APPROPRIATE TRADE FOR INSTALLATION, SEE ARCHITECTURAL SPECIFICATION.
- PHASE PROTECTION: ALL MOTORS USING 3 PHASE POWER AND ALL 3 PHASE AIR CONDITIONING UNITS SHALL HAVE PROTECTION FOR PHASE REVERSAL LOSS OF PHASE OR PHASE OR PHASE OR PHASE OR PHASE OR PHASE OR PHASE WIRELANCE OF 10% VOLTAGE BROP OR GREATER ON ANY ONE PHASE. MANUFACTURED BY TIME MARK SERIES 2644.
- CONTRACTOR SHALL NOT FASTEN, ATTACH OR HANG ANY MATERIAL FROM THE ROOF DECK. ALL CONDURS, JUNCTION BOXES, FORTURES, DEVICES AND EQUIPM SHALL BEHANDS FROM THE STRUCTURES. STEEL REPAIR AND SHALL BE HANDS FROM THE STRUCTURES. STEEL REPAIR AND SHALL BE HANDS FOR SHALL BE HAD S
- ALL ELECTRICAL DEVICES, CONDUIT, J-BOXES, CABLE SUPPORTS, ETC. THAT ARE REQUIRED TO BE SUPPORTED ABOVE THE GRID CEILINGS SHALL BE SUPPORTED FROM THE STRUCTURE VIA THREADED RODS, ALL AREAS.
- MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED U.O.N. ON DRAWINGS. WHERE THEY ARE INSTALLED THEY SHALL BE COMMON TRIP OR HAVE HANDLE TIES AS REQUIRED BY N.E.C.
- SWITCHES AND RECEPTACLES SHALL BE IDENTIFIED AS TO PANEL AND CIRCUIT BREAKER FED FROM. LABEL COVERPLATE ON FRONT PER SPECIFICATION AND ON BACK WITH PERMANENT INK ENSURE NO BLEED THROUGH.
- THESE DRAWINGS ARE SUBJECT TO AN APPROVAL OF THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY, AND OTHER AGENCIES AUTHORITY HAVING JURISDICTION (AND), BY THE ACT OF SUBMITTING A BUP PAPOSAL FOR WORK, THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTS FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATE CONSTRUCTION OF OF THE ACTION O
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
- PROTURES AN UPDATED, COMPLETE, OPERATIVE, COORDINATED AND TESTED NON-COORD, NITELLIGENT, ADDRESSABLE FIRE DETECTION, AND ALARM THE LIGHT, ADDRESSABLE FIRE DETECTION, AND ALARM NICESSARILY NOOLATE EVERY PROQUEDED PRECED FOR COMPLETE THAN DEVICE, PROVIDE ALL TERES NECESSARY TO MAKE A COMPLETE WORKING AND ALL THE WORKING AND AL

	ELECTRICAL A	ВΒ	KEVIA	TIONS
AC	ABOVE COUNTER		IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR		J-BOX	JUNCTION BOX
AFG	ABOVE FINISHED GRADE		LTG	LIGHTING
AIC	AMP. INTERRUPTING CAPACITY		LTF	LIQUID TIGHT FLEXIBLE CONDUIT
AL	ALUMINUM		LTS	LIGHTS
ANN	ANNUNCIATOR		MC	MECHANICAL CONTRACTOR
ARCH	ARCHITECT		MCB	MAIN CIRCUIT BREAKER
BFG	BELOW FINISHED GRADE		MDP	MAIN DISTRIBUTION PANEL
BKR	BREAKER		MECH	MECHANICAL
BPS	FIRE ALARM BOOSTER POWER SUPPLY		MLO	MAIN LUG ONLY
BTM	BOTTOM		MTD	MOUNTED
BWE	BAKED WHITE ENAMEL		(N)	NEW
С	CONDUIT		NE	NON FUSED
CASA	COLOR AS SELECTED BY ARCHITECT		N.T.S.	NOT TO SCALE
CATV	CABLE TELEVISION		NL	NIGHT LIGHT
СВ	CIRCUIT BREAKER		PC	PHOTO CELL
СКТ	CIRCUIT		PH	PHASE
CLG	CEILING		PNL	PANEL
СМ	FIRE ALARM CONTROL MODULE		PWR	POWER
ст	CURRENT TRANSFORMER		RECEPT.	RECEPTACI E
CU	COPPER		RCPT, REC	
DC	DEDICATED CIRCUIT		RI	RELOCATE
DISC	DISCONNECT		RT	RAIN TIGHT, NEMA 3R
EB	ELECTRONIC BALLAST		SCA	SHORT CIRCUIT AMPERAGE
EC	ELECTRICAL CONTRACTOR		SPD	SURGE PROTECTION DEVICE
ELEC	ELECTRICAL		T-STAT	THERMOSTAT
EM	EMERGENCY		TBD	TO BE DETERMINED
EMT	ELECTRICAL METALLIC TUBING		TC:	TIME CLOCK
E.O.L.	ELECTRICAL OVERLOAD		TTR	TELEPHONE TERMINAL BACKBOARI
EWC	ELECTRICAL WATER COOLER		TYP	TYPICAL
EXIST, EX,	EXISTING		U.O.N.	UNLESS OTHERWISE NOTED
(E)			U.C.N.	UNDER COUNTER
F.	FUSED		v	VOLTS
FB	FIBER OPTICS		w	WATTS
FLR	FLOOR		w/	WITH
FLUOR	FLUORESCENT		W/O	WITHOUT
GC	GENERAL CONTRACTOR		WG	WIRE GUARD
GFI	GROUND FAULT INTERRUPTER		WP	WIRE GUARD WEATHERPROOF
GRC	GALVANIZED RIGID CONDUIT		XFMR	TRANSFORMER
GRD	GROUND		AFMR	I PONNOF URMER
		_	NOTE: TI	HIS IS A COMPREHENSIVE LEGEND

FLECTRICAL ABBREVIATIONS

	ELECTRICAL DRAWING INDEX
Sheet Number	Sheet Name
EP001	GENERAL CONSTRUCTION NOTES AND LEGEND
EP100	ELECTRICAL SITE PLAN
EPD101	DEMO LOWER LEVEL ELECTRICAL PLANS
EPD102	DEMO GALLERY AND MEZZANINE LEVEL ELECTRICAL PLANS
EP101	NEW LOWER LEVEL ELECTRICAL PLANS
EP102	GALLERY AND MEZZANINE LEVEL ELECTRICAL PLANS
EP500	ELECTRICAL ONE-LINE
EP501	PANEL SCHEDULES
EP502	PANEL SCHEDULES AND FAULT CURRENT
EP600	ELECTRICAL SCHEDULES
EP601	COMCHECK
EP700	ELECTRICAL DETAILS
EP701	ELECTRICAL DETAILS
EP702	ELECTRICAL DETAILS
EP800	ELECTRICAL SPECIFICATIONS

FLECTRICAL LEGEND FLAG NOTE MECHANICAL EQUIPMENT SYMBOL SPECIAL EQUIPMENT SYMBOL INDICATES AIMING DIRECTION INDICATES EXISTING DEVICE TO REMAIN 200 INDICATES EXISTING DEVICE TO BE REMOVED - EXISTING CIRCUIT RUN TO REMAIN ----- CIRCUIT RUN: UNDERFLOOR CIRCUIT RUN: WALLS OR CEILING ф CIRCUIT TURNS UP 4 CIRCUIT TURNS DOWN ____ T ____ UNDERGROUND TELEPHONE RUN - P - UNDERGROUND SECONDARY OR PRIMARY SERVICE GROUND BUS PS PLUG STRIP AS NOTED LV LOW VOLTAGE CIRCUIT ■ MOISTURE OR EXPLOSION PROOF SEAL # HOME RUN A-1,3,5 A - PANEL DESIGNATION 1,3,5 - CIRCUIT NUMBER, 6 CONDUCTORS U.O.N. T TRANSFORMER Æ. WEATHERHEAD MAIN DISTRIBUTION PANEL ____ SWITCH AND FUSE CIRCUIT BREAKER QM] METER 20 CTS <u>ښ</u>ـ PTS 0. GROUND ELECTRICAL PANEL TELEPHONE TERMINAL BOARD (1) MOUNTING BACKBOARD

₩ $\dashv\vdash$ CONTACT - NORMALLY OPEN (NO) LIGHTING OUTLET: CEILING RECESSED LIGHTING OUTLET: CEILING SURFACE A - FIXTURE TYPE, b - SWITCHING $_{A}O_{_{D}}$ O+ LIGHTING OUTLET: WALL MOUNTED SPOT LIGHT FLUORESCENT/LED FIXTURE: SURFACE . . . FLUORESCENT/LED FIXTURE: SUSPENDED

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DIRECT/INDIRECT FLUORESCENT/LED FIXTURE: RECESSED IN DRYWALL FLUORESCENT/LED FIXTURE: RECESSED IN GRID DIRECT/INDIRECT

무 FLUORESCENT/LED FIXTURE: WALL MOUNTED FLUORESCENT/LED STRIP TRACK LIGHTING FIXTURE INDICATES NIGHT LIGHT OR EMERGENCY CIRCUIT

 \mathbb{V} INDICATES NIGHT LIGHT OR EMERGENCY CIRCUIT ∅ EXIT SIGN: CEILING MOUNTED EMEDGENCY BATTERY WITH LAMPS REMOTE INDICATING LIGHT POLE MOUNTED FIXTURE •

POST TOP FIXTURE LIGHTING CONTROL STATION OCCUPANCY SENSOR VACANCY SENSOR PHOTO CELL - ELECTRIC ©ORC CONTACTOR

® PH RELAY PHASE MONITOR NOTE: ALL SWITCHES SHALL BE MOUNTED AT 48" AFF TO TOP OF BOX (U.O.N.) SINGLE POLE SWITCH, 20 AMP U.O.N.

DOUBLE POLE SWITCH, 20 AMP U.O.N 3 - WAY SWITCH, 20 AMP U.O.N. \$3a SINGLE POLE SWITCH, 20 AMP U.O.N. 3 - THREE WAY, a - SWITCHING 4 - WAY SWITCH, 20 AMP U.O.N.

KEYED SWITCH, 20 AMP U.O.N. \$p PILOT SWITCH, 20 AMP U.O.N. SWITCH ON, LIGHT ON

\$TO SWITCH WITH THERMAL OVERLOAD, 20 AMP U.O.N. \$SU SWITCHED FUSED, 20 AMP U.O.N. \$_{VS} SWITCH VARIABLE SPEED

SWITCH LOW VOLTAGE DIMMER SWITCH AS NOTED, 20 AMP U.O.N.

+ 16" AFF TO BOTTOM OF BOX (U.O.N) DUPLEX RECEPTACLE + 16° AFF TO BOTTOM OF BOX (U.O.N) DUPLEX RECEPTACLE INDIVIDUAL GROUND FAULT RECEPTACLE DOUBLE DUBLEY RECEPTACLE + 16° AFF TO BOTTOM OF BOX (U.O.N) DUPLEX RECEPTACLE, SPLIT WIRED DUPLEX SWITCHED RECEPTACLE, SPLIT WIRED DUPLEX RECEPTACLE, CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED SPECIAL PURPOSE OUTLET AS NOTED. + 16" AFF TO BOTTOM OF BOX (U.O.N.) COMBINATION CCTV/CATV WITH DUPLEX RECEPTACLE, + 72" AFF TO BOTTOM OF BOX (U.O.N.) TELEVISION OUTLET, + 16" AFF TO BOTTOM OF BOX (U.O.N.) COMBINATION CATV/DATA WITH 1°C, + 16° AFF TO BOTTOM OF BOX (U.O.N.) TELEPHONE OUTLET, +16" AFF TO BOTTOM OF BOX (U.O.N.) W - WALL OUTLET, +54" AFF (U.O.N.) P - PAYPHONE, +40" AFF (U.O.N.) X DENOTES # OF JACKS DATA OUTLET 16" AFF TO BOTTOM OF BOX (U.O.N.) X DENOTES # OF JACKS DATAVOICE OUTLET. + 16" AFF TO BOTTOM OF BOX (U.O.N.) FLUSH FLOOR TELEPHONE OUTLET S - SURFACE PEDESTAL FLUSH FLOOR DUPLEX OUTLET S - SURFACE PEDESTAL MULTI-CELL FLOOR BOX J-BOX: CEILING J-BOX: WALL TS: TIME SWITCH PUSH BUTTON STATION CAH HANDICAP ACCESS STATION HGH EPO EMERGENCY POWER OFF A EMERGENCY POWER OFF (MUSHROOM HEAD) THERMOSTAT MOTOR OUTLET AND CONNECTION MAGNETIC STARTER OR CONTACTOR DISCONNECT SWITCH NF - NON FUSED PP DOWED DOLES FACP FIRE ALARM CONTROL PANEL Ø FIRE-SMOKE DETECTOR/SMOKE DAMPER

COMBINATION SWITCH/RECEPTACLE



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CARNEGIE BUILDING DESIGN

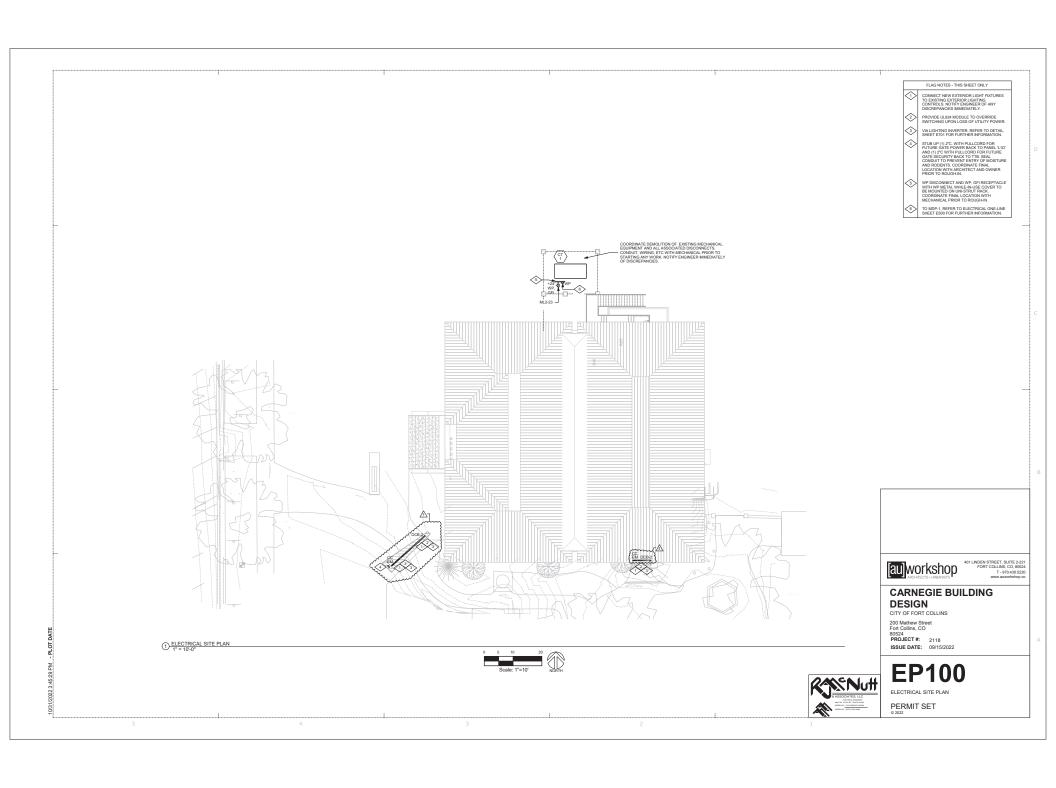
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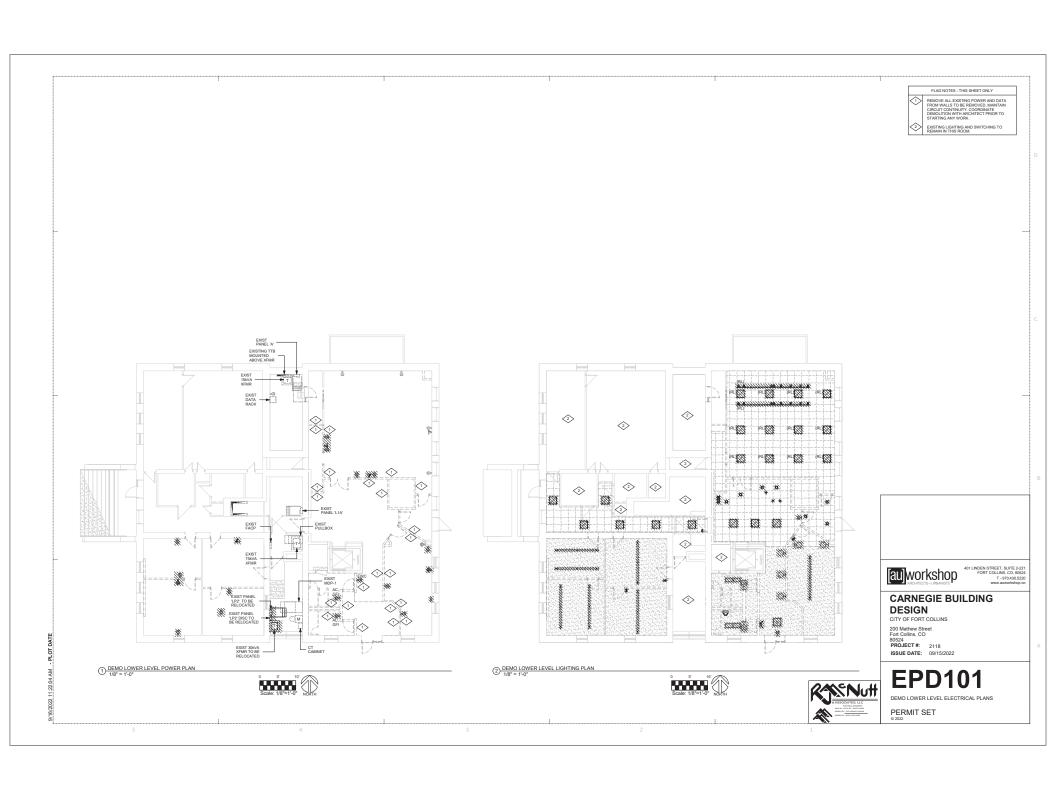


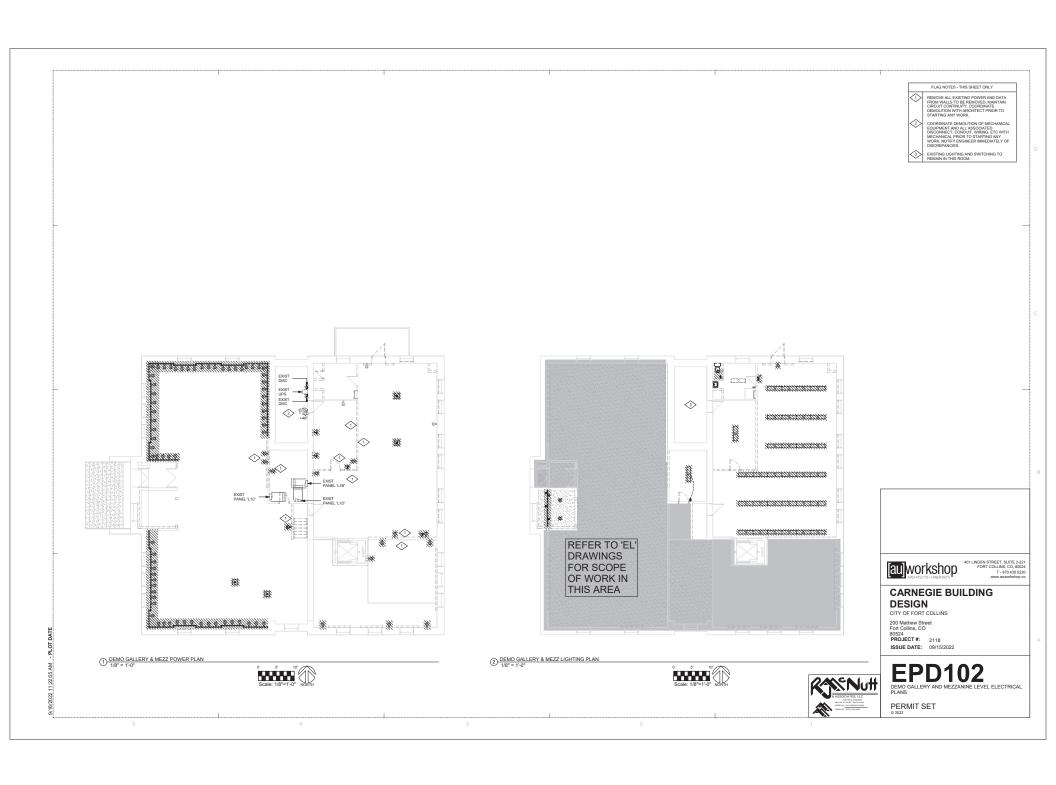
EP001

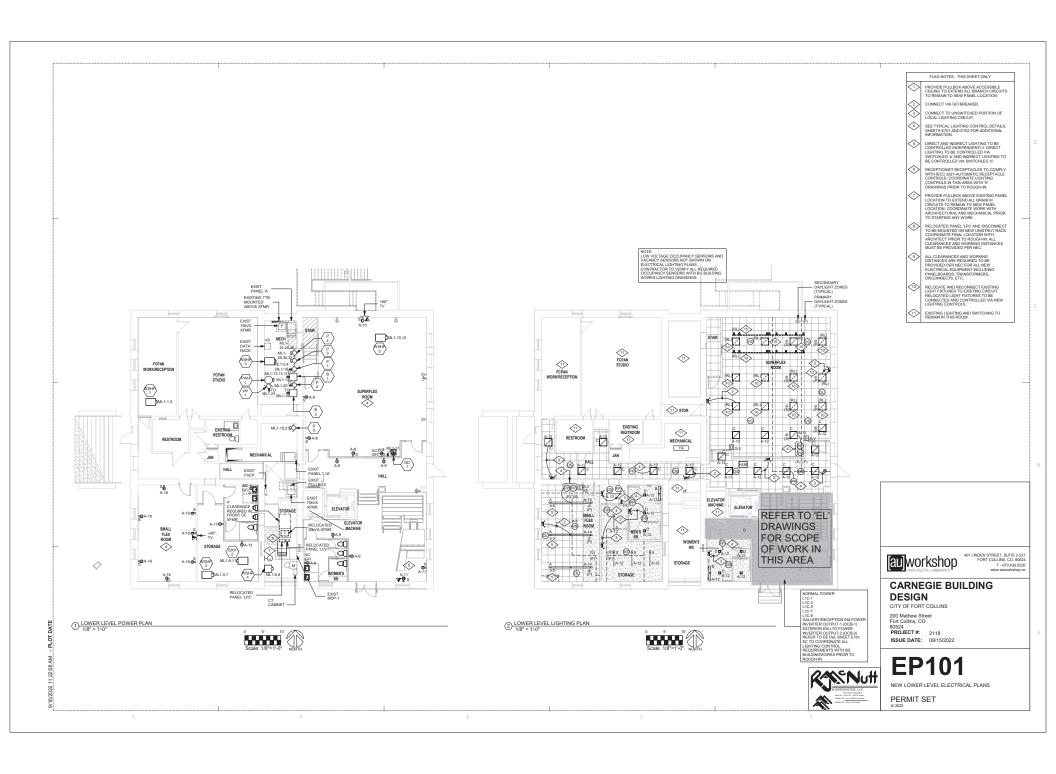
GENERAL CONSTRUCTION NOTES AND LEGEND

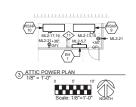
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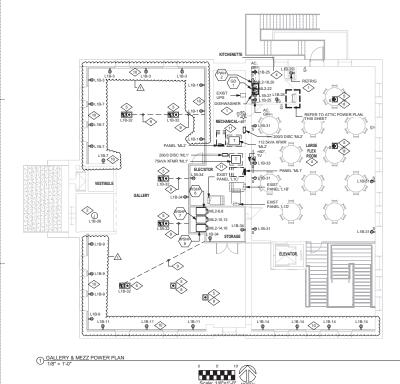


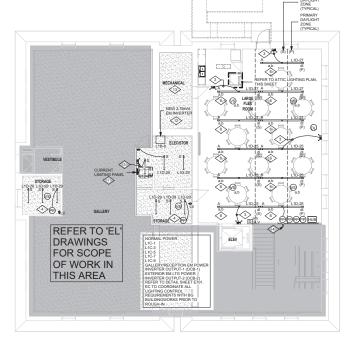






NOTE:
LOW VOLTAGE OCCUPANCY SENSORS AND
VACANCY SENSORS NOT SHOWN ON
ELECTRICAL LIGHTING PLANS.
CONTRACTOR TO VERIFY ALL REQUIRED
OCCUPANCY SENSORS WITH BG BUILDING
WORKS LIGHTING DRAWNINGS.





@ GALLERY & MEZZ LIGHTING PLAN 1/8" = 1'-0"





GFI BREAKER.

FLAG NOTES - THIS SHEET ONLY

CURRENT LIMITING PANEL SHOWN FOR REFERENCE ONLY, COORDINATE CONNECTIONS AND LOCATION WITH BG BUILDINGWORK. 8 REPLACE EXISTING FLOORBOXES WITH NEW, RECONNECT TO EXISTING CIRCUIT.

9 (1) 3/4°C FOR DATA AND (1) 3/4°C FOR POWER.

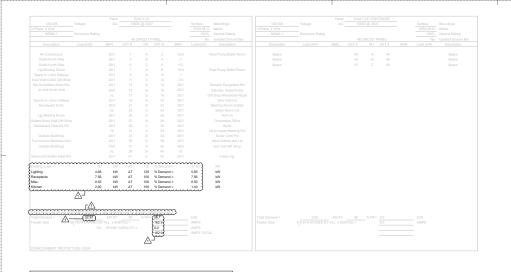
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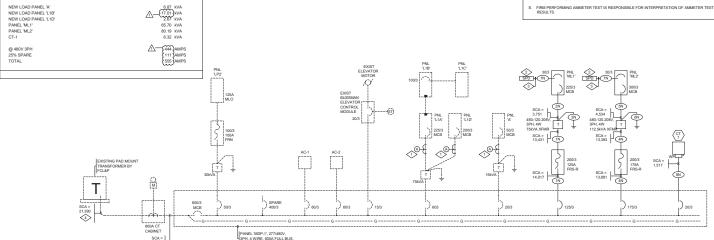
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CARNEGIE BUILDING DESIGN

CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524 PROJECT #: 2118

EP102 GALLERY AND MEZZANINE LEVEL ELECTRICAL PLANS





ELECTRICAL ONE-LINE

SECONDARY VOLTAGE

30-DAY AMMETER TEST REQUIREMENTS

A ELECTRICAL CONTRACTOR SHALL HIRE A QUALIFIED THIRD PARTY TESTIND AGENCY THAT SPECALIZES IN ASSOCIATED WORK SLOH AS IEST (ELECTRICAL RELIABLITY SERVICES) TO PERFOR ELECTROCALLY AND REPORTED TO THE ENABLES ELECTROCALLY AND REPORTED TO THE ENABLES ELECTROCALLY AND REPORTED TO THE ENABLES ELECTROCALLY AND REPORTED ASSOCIATED ASSOCIATED ASSOCIATED AND REPORT OF EACH FEEDER. A ADDITION TO THE ECTROMIC AND ADDITION TO THE STREAM SHALL BE PERFORMED ON ALL THREE PHASES FOR THE FEEDERS INDICATED ON THE DRAWNINGS.

- B. RECORDINGS SHALL BE COORDINATED WITH OWNER TO MINIMIZE RECORDING DURING PERIODS OF WHEN THE FACILITY IS NOT OPERATING UNDER "TYPICAL" CONDITIONS.
- WHEN THE FACELITY IS NOT DEPOSITING UNDER Y TIMED. CRUGITIONS.

 RECORDINGS SHEE BEAULED TO EXCEMENT PROVIDE ONE "XLS" FILE PER RECORDING) AND INCLUDE A SUMMANY INDICATIVE ALL INFORMATION CUTLINED BELOW FOR EACH AMMETER TEST.

 1. FEEDER COUNTEMENT FEED FROMING.
 2. SEZ AND TYPE OF GOODS AT EACH END OF FEEDER.
 2. SEZ AND TYPE OF GOODS AT EACH END OF FEEDER.
 3. FEEDER COUNTEMENT FEED FROMING. THE PER SEZ AND TYPE OF GOODS AT EACH END OF FEEDER.
 4. RELITING LOODUITOR SEZ AND INSELLATION TYPE:
 5. GROUND SEZ AND REAL ATION TYPE:
 6. GROUND SEZ AND TYPE:
 6. GROUND SEZ AND TYPE:

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CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO

80524 PROJECT #: 2118

ISSUE DATE: 09/15/2022

EP500

ELECTRICAL ONE-LINE

FEEDER SCHEDULE

(4 #4/0 THWN CU & #2 CU GRD) 3°C. 3N (#2 CU GRD) 3/4°C.

4N (3 #2/0 THWN CU & #6 CU GRD) 2°C. 5N (4 #350 KCMIL THWN CU & #2 CU GRD) 3 1/2°C.

7N (4 #10 THWN CU & #10 CU GRD) 3/4°C. REFER TO MECHANICAL EQUIPMENT SCHEDULE, SHEET E600.

6N (#2 CU GRD) 3/4°C.

DESCRIPTION

FLAG NOTES - THIS SHEET ONLY

PROVIDE 30-DAY AMMETER TEST PER NEC AND SPECIFICATIONS REQUIREMENTS. SPD SHALL BE SQUARE D XDSE #SSP02XDSE20A - 120/208V, 3PH, 4W OR APPROVED EQUAL BY LEA, ASCO, OR GEAR MANUFACTURER.

PROVIDE THREE TWISTS PER FOOT OF CONDUCTOR LENGTH - LOCATE SPD AS CLOSE AS POSSIBLE TO OCPD. DO NOT EXCEED 18" OF CONDUCTOR LENGTH.

EC TO CONFIRM EXISTING XFMR kVA AND SCA SHOWN WITH UTILITY PRIOR TO SHOP DRAWINGS SUBMITTAL, NOTIFY ENGINEER OF DISCREPANCIES IMMEDIATELY.

4

LOAD SUMMARY - SERVICE

210.88 kW

263.59 kVA

MAX DEMAND PER FORT COLLINS LIGHT AND POWER

@125% PER NEC

@ 80% POWER FACTOR

THIS DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY, AND THUS

PROFESSIONAL CANNOT ASSURE ITS ACCURACY. AND THUS IN OT RESPONSIBLE FOR THE ACCURACY OF THIS GRAWING OR FOR ANY ERRORS OR OMISSIONS, WHICH MAY HAVE BEE INCORPORATE IN TOT IT AS A RESULT. THOSE FELLYMG ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

△--GALLERY RCPT

GALLERY RCPT SUPERFLEX ROPTS
SUPERFLEX TV
LOWER LEVEL LTG
SMALL FLEX LTG
SMALL FLEX ROPTS
SMALL FLEX TV 0.90 0.18 0.99 0.50 1.08 0.18 HALL RCPTS
RECEPTIONIST RCPTS
STORAGE RCPTS Δ Cudets South Wall
KITCHENETTE RCPTS
DISHWASHER
REFRIGERATOR
LARGE FLEX RCPTS
LARGE FLEX TV
Spare
Spare 125 % Demand = 5.85 100 % Demand = 7.56 100 % Demand = 0.50 100 % Demand = 1.40

FLAG NOTES - THIS SHEET ONLY EC TO VERIFY EXISTING CIRCUITS, PRIOR TO STARTING ANY WORK. NOTIFY ENGINEER IMMEDIATELY OF DISCREPANCIES. A

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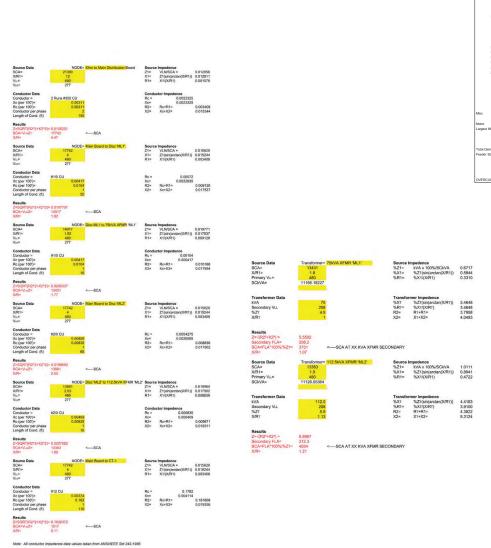
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CARNEGIE BUILDING DESIGN

CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524 PROJECT #: 2118 ISSUE DATE: 09/15/2022

EP501

PANEL SCHEDULES



		Panel	No	w 'ML1'					1		Panel	No	w ML2				
120/208	Voltage	AIC	1000	o ලා 240	v		Surface	Mountings	120/208	Voltage	AIC	1000	0 @ 240	_		Surface	Mountings
3 Phase, 4 Wire	-						225A MCB	Mains	3 Phase, 4 Wire							300A MCB	Mains
NEMA 1	Enclosure Rating						100%	Neutral Rating	NEMA 1	Enclosure Rating						100%	Neutral Rating
With Door-In-Door Hinged I	Cover						No	Isolated Ground Bar	With Door-In-Door Hinger	Cover						No	Isolated Ground Bar
Description	Load (kW)	BKR.	CKT#	PH.	CKT#	BKR.	Load (kW)	Description	Description	Load (kW)	BKR.	CKT#	PH.	CKT#	BKR.	Load (kW)	Description
WSHP-1	1.94	15/2	1	A	2	50/2	6.95	WSHP-3	ERV-1	5.06	35/2	1	A	2	70/2	9.15	WSHP-5
		//2	3	В	4	//2					//2	3	В	4	//2		
WSHP-2	9.15	70/2	5	C	6	30/2	3.85	WSHP-4	EH-1	2.00	20/2	5	C	6	70/2	9.15	WSHP-6
		//2	7	A	8	//2					//2	7	A	8	//2		
ERV-2	1.60	15/2	9	В	10	70/2	9.15	WSHP-5	PWH-2	5.20	35/2	9	В	10	70/2	9.15	WSHP-7
		//2	11	C	12	//2					//2	11	C	12	//2		
PHW-1	6.00	35/2	13	A	14	20/1	0.54	B-1	WSHP-9	9.15	70/2	13	A	14	70/2	9.15	WSHP-8
		//2	15	В	16	20/1	0.63	P-1			//2	15	В	16	//2		
GD-1	1.18	2011	17	C	18	20/1	0.54	B-2	WSHP-10	6.95	50/2	17	C	18	40/2	5.20	PWH-2
P-5	2.29	20/2	19	A	20	20/1	0.63	P-2			//2	19	A	20	//2		
		//2	21	В	22	35/3	6.30	P-3	ATTIC RCPTS	0.36	20/1	21	В	22	20/1	1.18	GD-1
PP-1	0.53	2011	23	C	24				EXTERIOR RCPT	0.18	20/1	23	C	24	20/1		SPARE
SPARE		2011	25	A	26	///3			SPARE		20/1	25	A	26	20/1		SPARE
SPARE		2011	27	В	28	35/3	6.30	P-4	SPARE		20/1	27	В	28	20/1		SPARE
SPARE		2011	29	C	30				SPARE		20/1	29	C	30	20/1		SPARE
SPARE		2011	31	A	32	///3			SPARE		20/1	31	A	32	20/1		SPARE
SPARE		2011	33	В	34	20/1		SPARE	SPARE		20/1	33	В	34	20/1		SPARE
SPARE		2011	35	C	36	20/1		SPARE	SPARE		20/1	35	C	36	20/1		SPARE
SPD		30/3	37	A	38	20/1		SPARE	SPD		30/3	37	A	38	20/1		SPARE
		H	39	В	40	20/1		SPARE				39	В	40	20/1		SPARE
		///3	41	C	42	20/1		SPARE			////3	41	C	42	20/1		SPARE
									Receptacle	0.54	KW	AT	100	% Demand =		0.54	KW
Misc.	39.72	kW	AT	100	% Demand	-	39.72	kW	Misc.	70.16	KW	AT	100	% Demand =		70.16	KW
Motor	11.54	kW	AT	100	% Demand	-	11.54	kW									
Largest Motor	6.30	kW	AT	125	% Demand	=	7.88	kW	Largest Motor	1.18	XW	AT	125	% Demand =		1.47	kW
Total Demand =	59.13	kW AT	90	% PF=	65.7		kVA		Total Demand =	72.17	KW AT	90	% PF=	80.2		KVA	
Feeder Size	65.7KVA DIVIDED BY				182.4		AMPS		Feeder Size	80.2kVA DIVIDED BY				222.6		AMPS	
			CAPACITY =		18.2		AMPS		11			CAPACITY =		33.4		AMPS	
					200.6		AMPS TOTA	1						256.0		AMPS TOTAL	L
OVERCURRENT PROTEC	TION =225A								OVERCURRENT PROTE	CTION =300A							



CARNEGIE BUILDING DESIGN CITY OF FORT COLLINS

200 Mathew Street
Fort Collins, CO
80524
PROJECT #: 2118
ISSUE DATE: 09/15/2022



EP502

PERMIT SET

				MECHAN	NICAL EQUIPMENT SCI	HEDUI F				
	DESCRIPTION	HP	KW.	AMP	VOLTAGE PHASE	WIRE SIZE	CONDUIT	BREAKER	SWITCH & FUSE	REMARKS
B 1	BOILER#1			MCA = 4.5A	120V	2#12 THWN CU & #12 CU GRD	1/2"	20/1	sto	
B 2	BOILER #2			MCA = 4.5A	120V	2 #12 THWN CU & #12 CU GRD	1/2"	20/1	STO	
CT 1	COOLING TOWER #1	SHP		7.6A	480V 3PH	4 #12 THWN CU & #12 CU GRD	3/4"	20/3	30/3 WP 20A FRN-R	
EH 1	ELECTRIC HEATER #1			9.6A	208V 1PH	3 #12 THWN CU & #12 CU GRD	3/4"	20/2	30/2 9.6A FRN-R	
ERV 1	ENERGY RECOVERY VENTILATOR #1			MCA = 24.3A MOCP = 35A	208V 1PH	3 #8 THWN CU & #10 CU GRD	1"	35/2	60/2 35A FRN-R	
ERV 2	ENERGY RECOVERY VENTILATOR #2			MCA = 7.7A MOCP = 15A	208V 1PH	3#12 THWN CU & #12 CU GRD	3/4"	15/2	30/2 15A FRN-R	
GD 1	GARBAGE DISPOSAL #1	1/2		9.8A	120V	2 #12 THWN CU & #12 CU GRD	1/2"	20/1	RCPT	
P 1	PUMP #1		625W		120V	2 #12 THWN CU & #12 CU GRD	1/2"	20/1	RCPT	
P 2	PUMP #2		625W		120V	2#12 THWN CU & #12 CU GRD	1/2"	20/1	RCPT	
P 3	PUMP #3	5		17.5A	208V 3PH	4 #8 THWN CU & #10 CU GRD	1 1/4"	35/3	60/3 35A FRN-R	
P 4	PUMP #3	5		17.5A	208V 3PH	4 #8 THWN CU & #10 CU GRD	1 1/4"	35/3	60/3 35A FRN-R	
P 5	PUMP #5	1.5		11A	208V 1PH	3 #12 THWN CU & #12 CU GRD	3/4"	20/2	30/2 20A FRN-R	
PP 1	WATER HEATER PUMP #1	1/8		4.4A	120V	2 #12 THWN CU & #12 CU GRD	1/2"	20/1	sto	
PWH 1	POTABLE WATER HEATER #1		6kW		208V 1PH	3 #8 THWN CU & #10 CU GRD	1"	40/2	60/2 40A FRN-R	
PWH 2	POTABLE WATER HEATER #2			25A	208V 1PH	3 #8 THWN CU & #10 CU GRD	1"	40/2	60/2 40A FRN-R	
WSHP 1	WATER SOURCE HEAT PUMP #1			MCA = 9.3A MOCP = 15A	208V 1PH	3#12 THWN CU & #12 CU GRD	3/4"	15/2	30/2 15A FRN-R	
WSHP 2	WATER SOURCE HEAT PUMP #2			MCA = 44A MOCP = 70A	208V 1PH	3 #4 THWN CU & #8 CU GRD	1 1/4"	70/2	100/2 70A FRN-R	
WSHP 3	WATER SOURCE HEAT PUMP #3			MCA = 33.4A MOCP = 50A	208V 1PH	3 #6 THWN CU & #10 CU GRD	1 1/4"	50/2	60/2 50A FRN-R	
WSHP 4	WATER SOURCE HEAT PUMP #4			MCA = 18.5A MOCP = 30A	208V 1PH	3 #10 THWN CU & #10 CU GRD	3/4"	30/2	30/2 30A FRN-R	
WSHP 5	WATER SOURCE HEAT PUMP #5			MCA = 44A MOCP = 70A	208V 1PH	3 #4 THWN CU & #8 CU GRD	1 1/4"	70/2	100/2 70A FRN-R	
WSHP 6	WATER SOURCE HEAT PUMP #6			MCA = 44A MOCP = 70A	208V 1PH	3 #4 THWN CU & #8 CU GRD	1 1/4"	70/2	100/2 70A FRN-R	
WSHP 7	WATER SOURCE HEAT PUMP #7			MCA = 44A MOCP = 70A	208V 1PH	3 #4 THWN CU & #8 CU GRD	1 1/4"	70/2	100/2 70A FRN-R	
WSHP 8	WATER SOURCE HEAT PUMP #8			MCA = 44A MOCP = 70A	208V 1PH	3 #4 THWN CU & #8 CU GRD	1 1/4"	70/2	100/2 70A FRN-R	
WSHP 9	WATER SOURCE HEAT PUMP #9			MCA = 44A MOCP = 70A	208V 1PH	3 #4 THWN CU & #8 CU GRD	1 1/4"	70/2	100/2 70A FRN-R	
WSHP 10	WATER SOURCE HEAT PUMP #10			MCA = 33.4A MOCP = 50A	208V 1PH	3 #6 THWN CU & #10 CU GRD	1 1/4"	50/2	60/2 50A FRN-R	
NOTES	1							1		1

			NG FIXTURE SCI					
TYPE	LAMPS	DESCRIPTION	FINISH	MOUNTING	MANUFACT.	CATALOG#	VOLT.	NOTE
Α	55.2W/4FT 3000K 750 LUMENS/FT	DIRECT/INDIRECT PENDANT WITH LAMERTIAN OPTIC. DIRECT/INDIRECT LIGHTING TO BE CONTROLLED INDEPENDENTLY.	CASA	PENDANT		EOS 3.0-P-DI-LAM-750-LAM-750-**-35K- 8-2-UNV-S1-W-**-42-WF	MVOLT	2,6
В	LED-20W 3000K 995LUMENS	36' NANO VANITY LIGHT WITH FROSTED ACRYLIC DIFFUSER.	CASA	WALL MOUNTED ABOVE	BLACKJACK LIGHTING	NAN-36V-CASA-12T-30K-SO-DB	MVOLT	6
С	LED-44W 3000K 4462 LUMENS	2' X Z' RECESSED TROFFER WITH 0-10V DIMMING DRIVER.	WHITE	RECESSED	CREE LIGHTING	ZR22-30L-835-10V5-UNV	MVOLT	1,6
D	LED-20W 3500K 2000 LUMENS	6' DOWNLIGHT WITH 0-10V DIMMING. DAMP LISTED	CASA	RECESSED	SPECTRUM LIGHTING	SP6ES-20L-35K-D1 TRIM: AR6ES-CASA-MF	MVOLT	6
s	LED-31W 3500K 4000 LUMENS	4' LED STRIPLIGHT WITH FULL FROSTED LENS. WIDE LIGHT DISTRIBUTION. DAMP LISTED.	BWE	SURFACE	CREE LIGHTING	LS4-40L-835-R-UL-10V	MVOLT	6
8	LED	UNIVERSAL EXIT FIXTURE WITH GREEN LETTERS, UNIVERSAL MOUNTING, ADVANCED DIAGNOSTICS.	WHITE	AS REQUIRED	EMERGI-LITE	PN-G-6-AD	MVOLT	3,4,5
	LED	RECESSED LED EMERGENCY LIGHT WITH NICKEL-CAD BATTERY. ADVANCED DISGNOSTICS	WHITE	WALL MOUNTED	EMERGI-LITE	MRTN40-2(LJ)-ADNA-DL	MVOLT	3,5,
		 				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
CC	LED-5.9W/FT 3000K 689 LUMENS/FT	ICON SURFACE EXTRUSION WITH LED TAPELIGHT. WET LISTED LENGTHS AND MOUNTING TO BE VERIFIED PRIOR TO ORDER.	CASA	RECESSED	LIGHTING	LLI-ICN-S-F-T5.9W-65-30K-24V-XXX POWER FEED: PWR-48-EF POWER SUPPLY: LLI-PS-UDEFF-096W- 24V-KO	MVOLT	5,6

NOTES

1. EE OT CONFIRM EXISTING TROFFER SHELDING PRIOR TO ORDER.
2. EE TO VERRY PERDANT MOUNTING TYPE AND LEWISTIS PRIOR TO ORDER.
3. CONNECT VALUEWING THE LEGISLATION OF THE LONG TO ORDER.
4. PROVIDE CHERNON AS BIOLETO OR REQUIRED.
5. PROVIDE MOUNTING HEADWARE AS REQUIRED TO IT APPLICATION, NOT NECESSARELY SHOWN, CONFIRM MOUNTING WITH ARCH PRIOR TO ROUGHAN.
5. PROVIDE MOUNTING HEADWARE AS REQUIRED TO IT APPLICATION, NOT NECESSARELY SHOWN, CONFIRM MOUNTING WITH ARCH PRIOR TO ROUGHAN.
5. PROVIDE MOUNTING HEADWARE AS REQUIRED TO THE APPLICATION, NOT NECESSARELY SHOWN, CONFIRM MOUNTING WITH ARCH PRIOR TO ROUGHAN.
5. PROVIDE MOUNTING HEADWARE AS REQUIRED TO THE APPLICATION, NOT NECESSARELY SHOWN.
5. TO COMPANY THE APPLICATION OF THE APPLICATION O

APCHITECTS + LIRBANISTS

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FORT COLLINS, CO, 80534
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CARNEGIE BUILDING DESIGN CITY OF FORT COLLINS

200 Mathew Street Fort Collins, CO 80524 PROJECT #: 2118 ISSUE DATE: 09/15/2022

EP600 ELECTRICAL SCHEDULES PERMIT SET

Fixture ID. Description (Lamp/ Wattage Per Lamp / Ballast Common Space Types: Restrooms (250 s.g. ft.)	Project Information nergy Code roject Title: roject Type:	2021 IECC CoFC Carnegle Buil Alteration	ding				
Allowed Interior Lighting Power Area Cartegory Area Cartegory Total Area Cartegory Area Cartegory Area Cartegory Total Area Cartegory Tribura D i Description Lamp Wattage Per Lamp Ballast Total Area Cartegory Total Cartegory Total Brown Lamp Wattage Per Lamp Ballast Total Area Cartegory Total Brown Lamp Wattage Per Lamp Ballast Total Picture D i Description Lamp Wattage Per Lamp Ballast Lamp La	onstruction Site: 200 Mathews Street Fort Collins, Colorado 80524	Jason Kersley AU Workshop 401 Linden St. S Fort Collins, Colo 970-430-5220	uite 221 orado 80524	R.J. McN 4645 W. Fort Coll 970-330	Cash utt & Associa 18th St, Suit ins, Colorado -3266	tes, LLC te 200 80634	
Area Cartegory Floor Area Allowed Vester Pt2 Vester P		Power	csnop.co		•	n	D
2-Common Sapes - Types - Common Sapes - Types - Conference - Common Sapes - Types - Comm	Area	Category	Flo	or Area	Allowed	2 A	llow Vati
Proposed Interior Lighting Power Fixture 10: Description / Lamp / Wattage Per Lamp / Ballast Fixture 10: Description / Lamp / Wattage Per Lamp / Ballast Fixture 10: Description / Lamp / Wattage Per Lamp / Ballast Report Fixture 10: Description / Lamp / Wattage Per Lamp / Ballast Report Fixture 10: Description / Lamp / Report Fixture 10: Description / Report Fixture 10: D	-Common Space Types:Conference -Common Space Types:Corridor/T	e/Meeting/Multipurpose		3423 778	0.97		183 3320 552 176
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballest Lamp / Extra Fixture Wattage Per Lamp / Ballest Lamp / Extra Fixture Wattage Per Lamp / Ballest Lamp / Extra Fixture Wattage Per Lamp / Ballest Lamp / Extra Per Lamp / Extr Per Lamp / Extra Per Lamp / Extra Per Lamp / Extra Per Lamp / Ex		ea e			Allowed Wal	tts =	4231
LIDB B SP WARD VANTY LIGHT, 200 Cities: LIDB B SP WARD VANTY LIGHT, 200 Cities: 1 2 Common Sace 7, these, Conference/Meeting/Multilusmose L823 s.g.f.l. LIDA - DRECT/MORCT PRIDAMT, 3-20 Y-Cities: LIDA - DRECT/MORCT PRIDAMT, 3-20 Y-Cities: LIDA - SP COMMON LIDB - SP COMMON L		Δ.	Lamp / Ballast	Lamps/	C # of Fixture	D Fixture Watt.	(C
Common Social Types. Conference (Meeting Multiliumunose (1452 so. ft.) 1 42 Common Social Types. Conference (Meeting Multiliumunose (1452 so. ft.) 1 16 Common Social Types. Conference (Meeting Multiliumunose (Meeting M	ommon Space Types: Restroc LED: B: 36" NANO VANITY LIGHT	ms (290 sq.ft.) , 20W: Other:				20	
Common Social Types. Confident/Transistion -d.B. truide, 1778 sa.B.t. J 1			se (3423 sq.ft.)			20	2
Common Social Types. Storage (482 a.ft.). 10 19 10 19 19 19 19 19 19 19 19 19 19 19 19 19						33	-
Total Proposed Wil- Interior Lighting Compliance Statement Compliance Statement: The proposed reterior lighting alteration project represented in this document is contained. Compliance Statement: The proposed reterior lighting alteration project represented in this document is contained. Compliance Statement: The proposed reterior lighting alteration project represented in this document is contained. Statement of the project of the statement of	LED: C: 2'Y2' RECESSED TROFFE	/Transition <8 ft wide (16	44	
Data mename.	LED: C; 2'X2' RECESSED TROFFE common Space Types: Storage LED: S: 4' STRIPLIGHT, 31W: Oth interior Lighting PASSES interior Lighting Complia	Transition <8 ft wide (7 R. 44W) Other: (462 sq.ft.) er:	778 sq.ft.)	1 To	10 otal Proposec		3 ith thi ting r with
	LED. C. ZXX RECESSED THOSP! ADMINISTRATE STRENGTH TO	ATransition < St. twide () R. 44W: Other: (462.59.ft.) er: INCE INCE	778 sq.ft.)	1 To	10 otal Proposec ument is con proposed int eckWeb and	31 Watts = sistent warior light to comply	3 ith the thing of with the ting of with the ting of t
James Rupp - Electrical Designer Signature 10/31. Name - Title Signature Date	LED. C. ZXX RECESSED THOSP! ADMINISTRATE STRENGTH TO	ATransition < St. twide () R. 44W: Other: (462.59.ft.) er: INCE INCE	778 sq.ft.)	1 To	10 otal Proposec ument is con proposed int eckWeb and	31 Watts = watts = watts = watts =	3 ith the thing of with the ting of with the ting of t

Project Information					
Energy Code: Project Title: Project Type: Exterior Lighting Zone	2021 IECC CoFC Carnegie Build Alteration 2 (Residential mixed				
Construction Site: 200 Mathews Street Fort Collins, Colorado 80524	Owner/Agent: Jason Kersley AU Workshop 401 Linden St. Su Fort Collins, Color: 970-430-5220 jkersley@auworks	ado 80524	Waylon R.J. McA 4645 W Fort Col 970-330	utt & Associa 18th St. Sui ins, Colorado	te 200 o 80634
Allowed Exterior Lighting	Power				
Area/Surface Cate	gory	Quantity	Allowed		Allowed Watts
			Watts /	Wattage	(B X C)
Entry canopy (a) Wattage tradeoffs are only all (b) A supplemental allowance eq	lowed between tradable are		0.25 Total Tradabl Total Alk Supplementa	Yes e Watts (a) = wed Watts = il Watts (b) =	25 25 25 400
Entry canopy (a) Wattage tradeoffs are only al	lowed between tradable are ual to 400 watts may be app ag Power A	Total Allowed as/surfaces. blied toward compl	0.25 Total Tradabl Total Alk Supplementa	Yes e Watts (a) = swed Watts = il Watts (b) = non-tradable	25 25 25 400
Entry canopy (a) Wattage tradeoffs are only at (b) A supplemental allowance equireas/surfaces. Proposed Exterior Lightin	iowed between tradable are ual to 400 watts may be app ig Power A / Lamp / Wattage Per I	Total Allowed as/surfaces. blied toward compl	0.25 Total Tradabl Total Alle Supplements iance of both B Lamps, Fixture	Yes e Watts (a) = swed Watts = il Watts (b) = non-tradable	25 25 25 400 and tradable Fixture (C X D)
Entry canopy (a) Wattage tradeoffs are only all (b) A supplemental allowance on a consideration of the construction of the co	iowed between tradable are ual to 400 watts may be app ig Power A / Lamp / Wattage Per I	Total Allowed as/surfaces. blied toward compl	0.25 Total Tradabl Total Alle Supplements iance of both B Lamps, Fixture	Yes e Watts (a) = wed Watts = il Watts (b) = non-tradable C # of Fixture	25 25 25 400 and tradable Fixture (C X D)
(a) Wattage tradeoffs are only at (b) A supplemental allowance eq areassurfactor. Proposed Exterior Lightin Fixture ID: Description Entry canopy (100 ft2): Tradabl LCD: CC: SEARLESS LED TAPLIS	lowed between fradable are all to 400 water may be appropriate to 100 miles from the 100 miles from 100 miles f	Total Allowed assistant as	0.25 Total Tradabl Total Ali Supplement, ance of both B Lamps, Fixture 1 Total Trada ted in this do	Yes e Warts (a) = www d Warts = il Warts (b) = non-tradable C f f Fixture 22 22 22 22 22 22 22 22 22	25 25 25 400 and tradable Fixture (CXD) 6 130 6 34 Watts = 130

Section & Reg.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.	□Compties □Does Not □Not Observable □Not Applicable	
	Occupancy sensors installed in classrooms/leture/training rooms, conference/meeting/multipurpose conference/meeting/multipurpose comms, copypint rooms, cloudges/breakrooms, enclosed offices, storage rooms, locker rooms, corridors, warehouse storage areas, corridors, warehouse storage areas, and other spaces = 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language warehouses and section C405.2.1.3 for open plan office spaces.	□Compiles □Does Not □Not Observable □Not Applicable	
C405.2.1. 2 [EL19] ¹		□Compiles □Does Mot □Not Observable □Not Applicable	
3 (EL20) ¹	open jain office areas. Occupant sensor control in open office species sensor control in open office species. A law of control in open office species. A law of control in open office species. A law of control in open office species in open of control in open open open open open open open ope	Compiles Doses Not Doses Not Obses Not Not Observable Not Observable	
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	

Section & Reg.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [F117] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fluture schedule for values.
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 [F)16] ¹	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	

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impa	ict (Tier 3)		
Project Title:	CoFC Carnegie Building			Report date	10/31	/22
Data filename:				Page	5 of	3

[1 | High Impact (Tier 1) | 2 | | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) | Report date: 10/31/22 | Page 7 of 7 Project Title: CoFC Carnegie Building Data filename:



Project Title: CoFC Carnegie Building Data filename:

Report date: 10/31/22 Page 2 of 7

Section & & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compiliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed, information lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior sighting and electrical systems and equipment and document where exceptions to the standard are claimed, information injenting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	

& Reg.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.	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 Sidelf 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	
C405.2.7 [EL28] ¹	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□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)?	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	

CARNEGIE BUILDING DESIGN CITY OF FORT COLLINS 200 Mathew Street
Fort Collins, CO
80524
PROJECT #: 2118
ISSUE DATE: 09/15/2022



EP601

APCHITECTS + LIRBANISTS

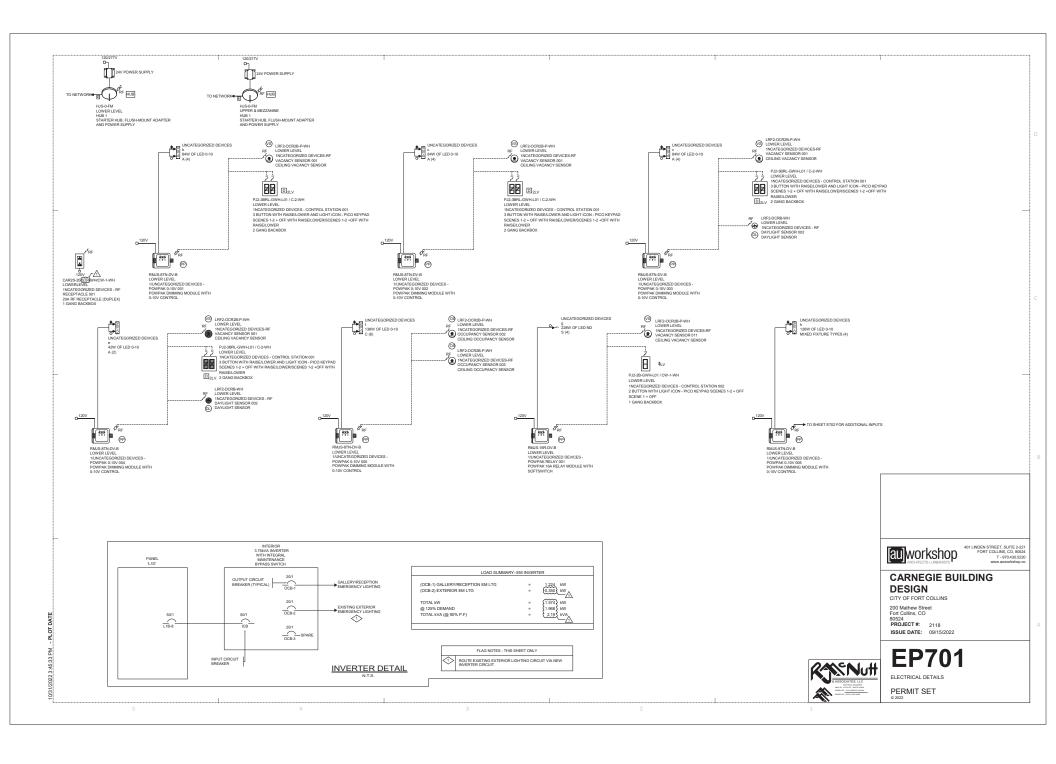
401 LINDEN STREET, SUITE 2-221
FORT COLLINS, CO, 80534
T + 5797-430.5220
www.azworkshop.co

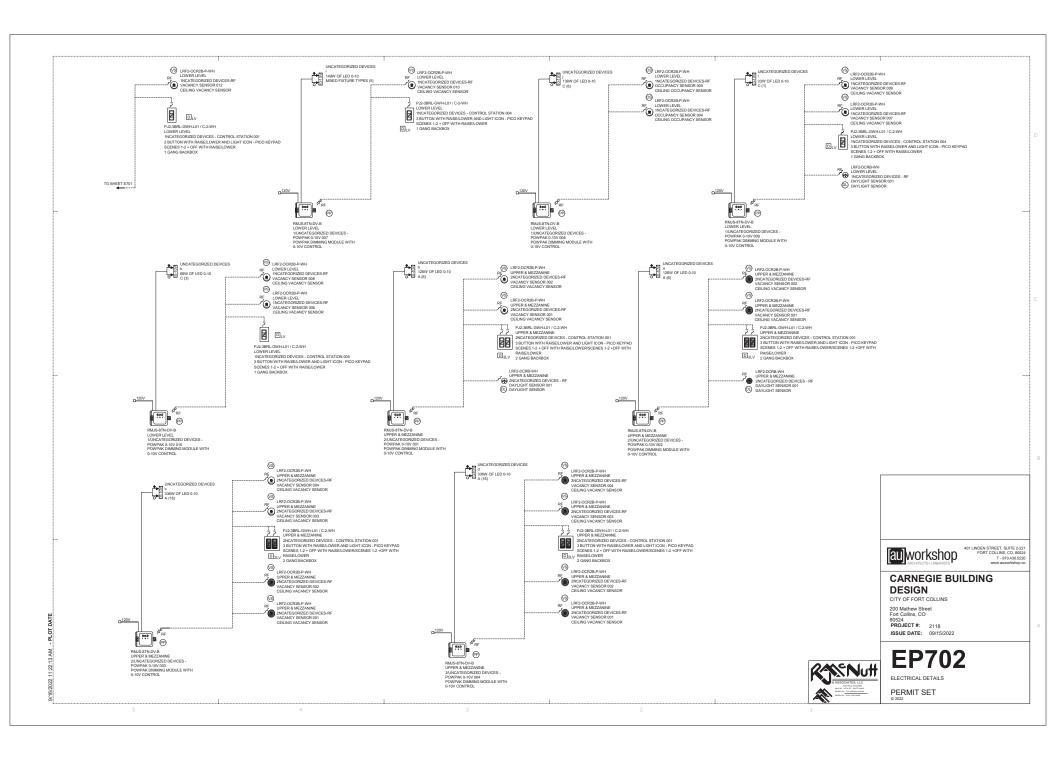
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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: CoFC Carnegie Building Data filename:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: CoFC Carnegle Building Data filename:

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supplements and amendments therein, a published by Owner.

A Comply with all applicable test and local codes, regulations and ordinances, and A Comply with all applicable test and local codes, regulations and ordinances, and by the local impaction antibory with a single provided provided imprediction. The provided imprediction is to the provided provided by the local impaction antibory with at all have final princidation.

B. Comply also with all OSIAI requirements and directives.

B. EXAMINATION OF PREMISSES.

 Examine the premises prior to bidding and become fully familiar with existing conditions.

1.4 PERMITS:
 Secure and page for all pages for the prior to t e and pay for all permits, fees, taxes, licenses and inspections in connection with the

A Source and psy for all permits, fees, taxes, licenses and impactions in connection with the electrical toward process. The Construction of the C

c (pdf) set of Shop Drawings to Engineer for the following:

A. Maintain a complete set or Execusar Learning. — ...
marked thereon in a contrasting color.

 B. Electrical Contractor shall provide General Contractor at completion of project a complete set of as built drawings showing all changes in work marked there on including all system.

set of as both deavage, absoring all changes in work maked there on including all system services are considered by the constraints of the constra

ONSTRECTION POWER AND LIGHTING:

Nervoic construction power and lighting for construction as required. Energy costs will be paid by Owner. All temporary facilities shall be properly grounded, shall compty with NIC SEGMONT STATES, and shall have good final protection.

SEGMONTALY SERVICE, and shall have good final protection.

Power for distribution within the building is available from the accordary side of a padmount ransformer applied by the Local Power from groungs. This service is a planed, witer, 277:6890wt, 60 Heart admensing current for normal power and lighting requirements of the worker expansion is above on Dewnse Lapporous shall be as openful beforeing on the worker expansion is above on Dewnse Lapporous shall be as openful beforeing and the worker expansion is above on Dewnse Lapporous shall be as specified herein.
3.9 REMODEL WORK:

MODEL WORK: Electrical Contracts shall remove all wiring devices, light fixtures, etc., which are indicated to be removed. In general, symbols which are dashed indicate existing devices which are to remain. Symbols which evaluated indicate existing devices which are re-sumed, symbols which evaluated indicate existing devices which are remain. Symbols which evaluated in the existing of the existing of the existing in notice to maintain service to other devices. If removed devices use on walls or ceilings, which are to remain, block overplants are to be installed on outlet because. Where remodeling interferes with circuits in areas which are otherwise undisturbed, circuits all the removaled as regarded.

and the record an experient of the contrast are neares which are otherwise unfaintheed, crimed and late live records an experient of the new flowers are indicated only for informational purposes. Electrical Contraster shall wist the six and shall verify conditions as they exist and shall record the contraster than the contrast of th

UARANTEE:

Guarantee all muterials, labor, workmanship and successful operation of all equipment installed under this contract for a period of one year from date of final acceptance. Repair or replace, at no expense to Owner, all defects which may arise during this time due to inferior or defective materials, equipment, or workmanship.

BESTITUTIONS:

or enterior materials, equipment, or workmands).

J. SISISTITITIONS

A. SISISTITITIONS

SHOULD CONTRICT the market inclinate to be called the quality standards of materials and equipment of the fath undex specified as permitted by a supproved quality of the specified as permitted by a supproved quality data, the shall student a situation request, alternative reports a father of the secondary of th

3.12 OUTAGES:
A Coordinate all decircular service orange, with Owner and General Contractor. Plan all work
A Coordinate and Contractor to an Evaluate minimum.
3.13 DELIVERY AND STORAGE OF MATERIALS:
A Male provision for delivery and ask devange of all materials and make the required
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Where materials are illustration to be infinited by outers to Committee to management materials shall be checked and their delivery properly receipted. Assume full responsibility for the storage and safe keeping of said materials from time of delivery until final

acceptance.
3.14 AVAILABLE TO OWNER:
A. Electrical Contractor shall be available to Owner for additional hook up to lights, equipment, etc., on time and material END OF SECTION 16010

SECTION 16100 - BASIK. MALEBOARD - - - PART I - GENERAL - CAPERAL I - STANDARDS:

1. STANDARDS:
A. All materials shall be new, shall be UL listed for the purpose intended, and shall bear the UL A. All materials shall be materials shall be replaced. All materials shall comply with

and Jamaged or defect latest NEMA standards.

B. BALANCING

I. The comsplete system shall be load balanced to within 10 15 percent per phase 1.2 PHASE ROTATION

Electrical Contractor shall be responsible and coordinate proper phase rotation of all motors, compressors, and other three phase equipment prior to energizing equipment.

compressors, and other three phase capitment prior to energizing equipment.

ANCHCICHCUT PREMEMORADE GORDER of SIRNAL Particle Particle Provise Particle Particle Particle Provise Particle Par

Panelboards shall be by same manufacturer as main distribution center

22 LONGENTIES
A Provide loadecuter type distribution pune/boards unless specifically indicated otherwise. All
A Provide loadecuter type distribution pune/boards unless specifically indicated otherwise. All
there are common internal "large" remediation and common operating handler
shall have a common internal "large" remediation and accurate operating handler
shall have a common internal "large" remediation and common operating handler
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shall have a remediate plant, and the shall handler
shall have a remediate plant, and the shall have been a shall have a remediate plant.

2.3 SAFET SWITCHES.

Provide fusible and non-fusible heavy duty type disconnect switches where shown as required. Switches shall be horsepower rated, quick make, and quick-break, by same manufacturer as panelboards.

SISS

Provide sizee, clauses and types of fines as indicated for all fixed safety switches. All fines of 600 arms shall have the Claus "R" rejection feature. Verify stead load current of all motors port to ordering lines and provide fixees of lines are recommended by Manufacturer. Find the contract of the contract of

REF FUSIS

Provide three spure fuses of each size and type installed. Turn spure fuses over to owner.

ABBOOKER, 1.5 inch luminated plastic numeplates (14 inch high white letters, black

background for numal power coapineme) for all winches, panelboards, coarridlens, etc., in

main distribution switchboards and sub-distribution panelboards. Nameplates shall be

permanently attached to coapineme with who werees. Provide black nameplates for all syntaces,

manufacture of the coapinement with two scarces. Provide black nameplates for all sparce.

permanently attached to equipment with two screws. Provide blank nameplates for all spares. Light switches/receptacles (all) Provide paned and circuit Knoy labels on front of coverplate and label with marker on inside panel cover and circuit also. Label all mechanical equipment, safety switches, and starters, etc., with raised letter tape. Nameplates and labels shall indicate the general areas and type of electrical load served by

cach circuit.

Neatly label all Junction box coverplates as so their function. Use a permanent ink pen.

Labeling shall be lights, receptacles, etc. Labeling shall be done on J boxes that are above accessible ceiling and in storage rooms and maintenance areas, etc. Do not label J boxes in

NM-NONMETALLIC SHEATHED CABLE NOT ALLOWED ON THIS PROJECT:

NDLUCIOSE.

Provide acceptive system of conductors for all mecusy systems. All conductors shall be Provide acceptive systems of conductors for all mecusy systems. All conductors shall be a far manufacturer acheeting to spelledels (PCA, and NEMA standards and practices. Conductors shall be side sensed types as indicated, and a requiring by NDC for specific uses. Where quantities of conductors in a necessary systems are not specifically indicated, provide number as regarded in materials function, control and number of circuits as indicated. All conductors shall be UL interd and approved, and shall conform to the following:

ollowing: Minimum wire size shall be #12 AWG copper except for control or signal circuits

1. Minimum wire size shall be 912 MVG copper except for control or signal circuits which may be 144 AVG copper.

1. Which may be 144 AVG copper.

1. Which will be the competite of the conduction shall be copper #12 AVG in U2** conduit, protected by 30 mapere circuit breakers. See Voltage Drop, 1. Voltage Drop, 1. Whigh Drop, 1. Whigh Drop and 1. White the conduit is 75 feet for could be formed from circuit breakers on every device in circuits, 910 shall be installed from circuit breakers to every device in circuit.

1. The following insulation standards shall apply:

2. The following insulation standards shall apply:

3. All feed reconduction shall be type 1100 NN, WIM copper and shall be standed.

2. The following insulation standards shall apply:

4. All feed reconduction shall be type 1100 NN, WIM copper and shall be standed.

3. All feed reconduction shall be type the shall be standard to the shall be s

6. Motor wiring for power shall be stranded.
Aluminum conductors shall not be used on this project.
The use of AC (Armored Cable), or flexible conduit shall not be used for branch circuits or

Mr. (Ment Lind) cade may be used as noted on drawings and only as allowed by NEC.

NECOLOGIS and Mr. (Ment Lind) cade to the second of the sec

accordance with Munification's recommendations.

It is approved type coupling and connectors in all conduit runs and make all joints sight. Provide instituted bushings for all terminations in pipe size 1 14st and larger. Provide all sted set texture coupling and connectors for all order contains. Provide captainson finaling and contraction of a cold network companion from waterpoor sized correpression gained couplings and connections for all runs in wet bearings waterpoor sixed correpression gained couplings and connections for all runs in wet bearings waterpoor sixed conventions. More considerable and couplings and counsections for all runs in wet bearings waterpoor sixed conventions. More considerable and couplings and counsections for all runs in wet bearings waterpoor faced comparisons for the buildings.

Mc calcio in out allowed in exposed areas of the buildings.

The voice supports and hanges an accessary and a required to insure a good and substantial installation. Support necessary, futures, calminet, boxes, etc. on approved types of fraperior managers or wall brackes as numedicated by futures are excepted equal. Provide student and applications of the contraction of printing or ductivose. Perforated plumber's straps or wire will not be permitted.

termitted.

Dobtain General Contractor's approval for the use of powder powered fasteners and use only in locations as he may direct.

JUTIETS.

Outlets shall be galvanized steel or zine pressed steel outlet boxes for all locations except where otherwise indicated or where cast metal boxes are required by NEC. Boxes are to 4"spager or cottagen,2.1 20" Explan minum: Provide plaster or let inges for all flash outless installed where wood, drywall tile plaster, etc., types of finishes are applied. All outless for exterior applications hall be excl., weatherpoof pye, with gasket and case coverplast. Tile boxes of extra depth may be used for intente, dry applications where masoury block or bork walls constitute for finished wall surface, in any event, provides. masoury block or brisk walls constitute the finished wall surface. In any event, provide culted boxes of poor type and design for the particular fixture or device to be installed. Boxes shall be as manufactured by Steel City or acceptable cogad.

Boxes shall be as manufactured by Steel City or acceptable cogad.

We have been supported by the company of the company

Surface Raceway: Surface raceway boxes same manufacturer as surface raceway.
HTING EOUIPMENT

HITNE EQUIPMENT
General: Provide all lighting equipment and lamps as shown on Drawings and as called for in
these Specifications. Provide all such equipment fully complete and previeted. Intell all
equipment in a secure and substantial numera, and in full accord with Munificaturer's
recommendations. Provide all such miscellaneous installation equipment such as support,
lamgare, vokes. Images, etc., as is necessary, browthe 1-1/2 and superent funds for the provided and provided in the provi

required by code. Provide for aiming of all adjustable lighting futures as directed by G. Contractor, exterior futures shall be aliqued at night.

Fixtures (Luminarior), All fixtures exposed to weather or cold temperatures shall be awateleprof and sushable for efficient operation at temperatures and conditions concern. All fixtures shall be for till, particular application, Install surface or pendant mounted luminariors to mad straight. Provide plaster frames or similar type devices compatible with ceiling.

nte electronic drivers shall be provided in order to provide dual/three level lighting as shown on plans. Driver shall bear the CBM, UL, and ETL labels certifying the driver complies with these specifications and standards.

2.13 DEVICES AND PLATES: AND FLATION.

Receptacles: Provide the following flash receptacle devices where indicated and required.

Verify color with General Contractor prior to installation. All devices to be Specification Grade with screw type terminals. Provide as shown or acceptable equal.

b. W.P. lift lid, duplex For GFI TayMac S2GA4 c. Ground Fault 20 amp Switches a. 20A switches b. 3-way switches Leviton -1221-White Leviton 1223-White

Coverplates

a. Finished and unfinished areas are to provide .040 smooth nylon White finished PANELBOARDS AND LOADCENTERS

A. Install panels up six feet six inches to top of panel.
 B. Drip shields shall be provided for all main distribut drawings.

s nted disconnects 12 feet and less above finished grade shall have padlocks master laminated type minimum 3/16 inch shafts, master keyed, to lock discom-IDUCTORS:

CONDUCTORS

Conductors tailable to continuous from outlet to outlet or Jakes. Splices shall be held to a proper continuous from the proper continuous from the proper continuous properties and continuous the held regard that of the conductors the splices and connections abilit be made in an appropriate content.

The properties of the conductors that the conductors that the conductors that the conductors are consistent and after such that the sent completed and after such that the conductors are conductors and the properties of the conductors and the conductors are conductors and continuous that the conductors are conductors and conductors and continuous that the conductors are conductors and conductors and continuous that the conductors are conductors and conductors and conductors are conductors and conductors and conductors are conductors and conductors are conductors and conductors are conductors and conductors and conductors are conductors and conductors are conductors.

provide 2, includes of used full above and before conductors and motal decircular mater stup 6 and a short of the conductors and motal decircular materials up 6 and a short of the conductors and motal decircular materials up 6 and 20 keV. The conductors are short of the conductors and the conductors on the conductors of the conductors Hard Covers), and HSTS25 Series. Provide shop drawings.

I Corest), and ISISTES series. Provide using training and ISISTES series. Provide using training the ISISTES series. Provide using the ISISTES series and ISISTES and ISIS

switchboards, panelboards, and loadcenters.

3.4 CONDUCTOR NEUTRAL APPLICATIONS

A. Neutrals: Copper, same size as phase conductor, derating neutrals not allowed.

B. Provide separate Neutral conductors for each 15 or 20 amp single pole breaker

Slab on grade: Conduits shall not be located in slab but 6" below thus cutting of slab will not

damage conductors and conduit.

All conduits shall be installed concealed in finished areas. Exposed conduits will be permitted only at surface cabinets, in mechanical equipment rooms, and as otherwise

Botto and Conchine center parallel for preparadicular to walls and structural members, always revoiding postering to societies of them. Bot what errices, c. Roms which are revoiding postering to societies observed for the state of the last of the structural construction. Locate receivery, so as not to endanger the straight of any structural members. All mans pertinent on the hability arrectural system and in manners as approved by General Continuous. Actual conduit reas are not necessarily indicated, but not a device critical continuous. Actual conduit reas are not necessarily indicated, but not a device critical to the state of the structural members. All mans of the state of the stat

spread of fire and products of combustion with smoke-rating of the floor or wall through which conduits pass. See Drawings for additional requirements. RNG ABOVE SUSPENDED CEILINGS

IRINO, AIDVI SUSPENDED CELINGS.
Approved Class II wing posterns used as controls, telephone, intercom, TV, etc., may be roated without conduit on briefal rings, I5 feet on center and nearly trained) where above the control of the c space. Wring in all exposed eras shall be roated in conduit such as, expreed celling, unferther mounted on walls and ext. All constraint such salul be tagged. Where suspended celling plenums are used for transportation of environmental are and where required by local plenums are used for transportation of environmental are and where required by local system or appropriate rating plenum can be no brakel ingo system. This shall include all systems such as telephone, dista, exc., even though this Contractor in not providing the callest or the contractor of the contractor in the contractor of the contractor in extractor of the callest and where required by local inspection authority, all Class II wring runs shall be enclosed in an abelia lickel all options and active contractors. All contractors is not providing at all options are contractors, and the contractors in our providing contractors and all included all options are such as feeded and the contractors in our providing contractors.

3.5 COT confidence or conductors. Refer to Article 300 22 of NIA.

3.5 OUT-above conductors. Refer to Artice 1902 2 of NAC.

3.6 Total and even the conductors are considered to the conductor to the compatible with paper, construction and equipment requirements, and with the work of other trades. Verify fand outlet becomes with General Connexes provi to unathina. Insultial of outlets planch with the conductor of the conductor of the conductor of the conductor with finished surface. All outlets are to be installed flush unless used in conjunction with exposed conduct systems or unless otherwise indicated for the conductor of the

39 LIGHTNG EQUIDANST.
A. Recessed futures shall be connected from a J box above the ceiling with flexible conduit. The supply conductors to recessed futures shall be in accordance with Muniferenter Lied of the supply conductors to recessed futures shall be in accordance with Muniferenter Lied of futures to the supply conductors to recessed futures shall be futured to the supply of the supply of the supply of the supply of the supply such installed.
B. Recessed futures in supposted I but god college. Overall admensions of futures to be box fell and suppost of the supply of the superior of the superior supply of the supply

OCOMERATES

A linstill oversized or "mistake plates" for any onder where standard sared plate will not cover rough in opening Provide gauged plates for combination devices and mislayle device rough in opening Provide gauged plates for combination devices and common of the combined of all telephone and compare outlies based so the somewhat of the 10 standard for all telephone and compare outliers.

Be Provide blank conceptate for all sunsed outlier boxes, i.e. voice, data, and power outlets at time of Final observation.

Provide fire rated stops to maintain fire ratings of walls, ceilings and floors.
 R. Condain may present the walls, ceilings, floors or partitions provided fire stopping is END of SECTION 16100.

Provide battery power
 GROUNDING SYSTEM:

GROUNDING SYSTEM:

A Ground the critic distribution system; including all raceways, outlets, fixtures,
A Ground the critic educaced with NIC.

B. Provide separate grounding conductor in all raceways.

C. Provide separate grounding impose from the grounding seven of all tocytoide devices to the
critical system of the control of the condition of the control of the c

by NEC.

E. All conductors used for grounding and bonding purposes shall be copper, insulated green,

SECTION 16900 - ELECTRICAL COMPLETION

SECTION 16900 - ELECTRICAL COMPLETION
PART I - GENERAL
1.1 GENERAL
A. The entire electrical system shall be left in first-class workable operating condition and all work shall be complete.

PART 2 - PRODUCTS 7.1 DIRECTORY CARDS: A. Provide labels and neatly typed directory cards for all new panelboards and loadcenters Directory cards shall indicate the general area and type of electrical load served by each

PART 3 - EXECUTION

A. CLEAN UP.
 A. Remove all materials, scrap, etc., relative to the electrical installation and leave the premis in a clean, orderly condition. Any costs to Owner for clean-up of the site will be charged

in a clean, colorly constant. Any costs to Owner for clean up of the sets will be charged in a clean, colorly constant. Any costs to Character for clean up of the clean clean

 A. Remove all temporary wiring, outlets, etc., complete.

3.4 DRAWINGS: A. Deliver Record Drawings to Owner. END OF SECTION 16900

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CARNEGIE BUILDING DESIGN

CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524 PROJECT #: 2118

ISSUE DATE: 09/15/2022









ELECTRICAL SHEET INDEX EL000 ELECTRICAL COVER SHEET EL001 LIGHTING SCHEDULES EL400 ELECTRICAL DIAGRAMS ISSUED AS PART OF SET NOT PART OF SET ISSUED FOR INFORMATION ORMATION ONLY

GENERAL NOTES:

- 1. THESE DRAWINGS ACCOMPANY THE PUBLISHED CONSTRUCTION DOCUMENT SPECIFICATION BOOK (PROJECT MANUAL).
- 2. DD NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK x. VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
- SERVICE SHALL BE MAINTAINED TO EXISTING AREAS DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE PORTABLE GENERATORS CABLES, OUTLETS, ETC. AS REQUIRED TO MAINTAIN CONTINUITY OF SERVICE. PLACEMENT OF SUCH PORTABLE EQUIPMENT SHALL BE SUBJECT TO OWNER APPROVAL.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
- 9. PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- I. PROVIDE 14" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL SWITCHBOARDS AND TRANSFORMERS WITH SHOP DRAWING SUBMITTAL. LAYOUTS SHALL SHOW LOCATIONS OF, AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT. ALL EQUIPMENT SHALL BE DRAWN TO SCALE.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS. EQUIPMENT, OR INSTALLATION METHODS.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES. PRIVIDE RECESSION TREACHED, BLOCHEL DOCUMENTS, EUPOCHTE SERVICE STEERNESS AND STOLLED PROTECTIVE UN RECENTLY TO ANNOUNCE SERVICE THE AND PROTECTIVE SERVICE S
- 18. EMERTING SYSTEMS AND CONNECTIONS SHOWN ON DOWNINGS FOR EMERTING BILLDINGS ARE TO BE NOTED FOR GUIDANCE CHAP. THE ELECTRONA CONTRACTOR TO FIELD CHEEVAL LOSDINGS CONSISTINGS PROOF TO BROWN AND TO NUCLUE HE HIS BID AN ALLOCKE FOR REMOVAL ANDIOR RELOCATION OF EXISTING CONDUITS, WIRES, DEVICES, FORTINGS, OR OTHER EQUIPMENT AS INDICATED ON THE PLANS OR AS REQUIRED TO COORDINATE AND ADMY THEW AND EXISTING ELECTRICAL SYSTEM TO ALL OTHER WORK AS REQUIRED.
- PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO ARCHITECTURAL AND ELECTRICAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED.
- 15. PROVIDE ALL NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARMS DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE. WHERE IT IS NOT FEASIBLE TO REMOVE THE ABOVE, OUTLET SHALL BE ARRANDONED, WIRE REMOVED, AND BLANK COVER PLATES PROVIDED.
- ALL (E) EQUIPMENT, LAMPS, BALLASTS, ETC. BEING REMOVED SHALL BE DISCARDED IN ACCORDANCE WITH APPLICABLE EPA REQUIREMENTS.
- EXISTING LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. BEING REMOVED SHALL BE RETURNED TO THE OWNER, EXCE ITEMS BEING RELOCATED.
- INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECTIENGINEER'S ATTENTION PRIOR TO INSTALLATION.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND
 INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH
 EQUIPMENT ACTUALLY SUPPLIED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WI UNDER THIS SECTION. OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- 22. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY
- WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES FOR LIGHT SWITCHES, AND 20 AMPERES FOR DUPLEX RECEPTACLES. THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT.
- 24. ALL WRING SHALL BE NOTALLED IN LISTED METALLIC PRACEWAYS. BMT FITTINGS SHALL BE MALLEABLE FROM OR STEEL. CONNECTORS SHALL BE REALLED HEACHT TYPE. IMMINIAL ROCKIUS TOUR SHALL FOR MACHINAIN MARKET OF CONDUCTIONS OF THE SHALL FOR THE HEACHT TO BE SHALL FOR THE HE
- 25. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB NYLON PULL STRING OR EQUAL, AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- 27. PROVIDE NEW UPDATED PANELBOARD DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT 28. PANEL DIRECTORIES SHALL BE REMOVABLE. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING EQUIPMENT SHALL BE SEAL TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- 30. FIRE ALARM, SOUND, TELEPHONE, COMPUTER AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1° SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
- 31. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- 32. QUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.



PROJECT #: 21#8

PERMIT SET

ISSUE DATE: 09/16/22



EL000 ELECTRICAL COVER SHEET

5

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В

LUMINAIRE SCHEDULE INPUT WATTS SPECIFIC DIMMING MANUFACTURER DESCRIPTION TYPE CATALOG NUMBER LED DECORATIVE PENDANT 0-10V ZANEEN 4R-N C4L-15-930-M-Z10-U C4RDL-CDP RECESSED 4" APERTURE LED DOWNLIGHT LED 0-10V LIGHTOLIER LED 1000 3000 14.4 0-10V LIGHTOLIER 87R-830K-10-Z10U LINE VOLTAGE, SINGLE CIRCUIT SURFACE MOUNTED TRACK LITELINE ATK SERIES LED TRACK HEAD LED ELV LITELINE A-FLEX-3540-T-* EXTERIOR WET LABELED LOW PROFILE 5* ROUNG SURFACE MOUNTED DOWNLIGHT LED 0-10V LIGHTOLIER S5R-830K-7-Z10U

ERAL NOTES:
BOF # BOTTO:
BOTT

- THE LIMMARE SCHEDULE CANNOT BE USED INDEPROBENTLY OF THE GRAWINGS AND REPORTANTION STORT AND ADMINISTRATION FOR THE CONTINUE OF THE CONTINUE O
- REFER TO DRAWINGS FOR FIXTURES REQUIRING INVESTER BACKUP OPTION (SHOWN BY HATCH INVOICE SYMBOL), BATTERY SHALL OPERATE FOR A MINIMUM OF 90 MINUTES.
- MINIMAL OR FOR GALLERY LIGHT FORTINES SHALL BE 50. MINIMAL OR FOR BLOCK OF HOUSE LIGHT FORTINES SHALL BE 50.
 ALL PRIMERS TO BE REVIEWED AND VERFIELD BY METROD DESIGNER ADDOR ARCHITECT PRIOR TO PRICHASE.
 PROVIDE ALL PRIMER PRICES, AND COMPRIST NECESSARY OR A COMPLETE AND PRICHASE. SHEETING A CONTINUOUS TRANSPERS NECESSARY OR AN COMPLETE AND PRICHASE.
- COMPRED DIAMNED PROTOCOL WITH FAMAL CONTROLS SPECIFICATIONS AND SING-DEVANISHED, THE FAMOL CONTROL AND IN LOAD FROM THE STORE OF THE FAMOL STORE OF THE STORE THE STORE OF THE

PECFIC NOTES:

(1) OF THE TOTAL QUANTITY OF TRACK HEADS, PROVIDE 10% WITH 15 DEGREE BEAM SPREAD, AND 10% WITH THE 25 DEGREE BEAM SPREAD.

(2) FINISH AS SELECTED BY ABONITECT.

TYPE	DESCRIPTION	PROGRAMMING REQUIREMENTS	COMMENTS	NOTE							
	WIRELESS CONTROL DEVICES										
PP-X	SWITCHING OR DWMING RELAY PACK SEE WIRELESS ZONE SUMMARY FOR MORE INFORMATION.	ON/OFF SWITCHING, MLV, ELV, OR 0-10V DIMMING DEPENDING ON LOAD DIMMING TYPE.	RELAY PACK SHALL HAVE WIRELESS COMMUNICATION TO SPEAK TO OTHER WIRELESS DEVICES								
WHI	LIGHTING CONTROL SYSTEM WIRELESS HUB AND PROCESSOR		EC SHALL COORDINATE WITH MANUFACTURER MOUNTING SUCH THAT COMMUNICATION OF HUB IS NOT IMPEDED.								
WK1	ROOM CONTROLLER, MULTI ZONE, MANUAL LOW VOLTAGE PUSH BUTTON KEYPAD WITH RAISE LOWER	THREE BUTTON WIRELESS SWITCH TO TURN LIGHTS ON TO TWO PRESETS AND TURN OFF ALL LIGHTS	MOUNT ON WALL WITH FACE PLATE								

- SEAL ALONG CONTROL TO BE PROVIDED TO GET OF ETALLORISE PRE-APPROVED MARKACTURED.

 THE CONTROL TO BE THE CONTROL TO BE PROVIDED TO GET OF ETALLORISE CONTROL TO THE CONTROL THE CONTROL TO THE CONTROL THE CO

WIRELESS ZONE SUMMARY:				VOL1	VOLTAGE:									
				120V										
								_	_	_	_	_		
ZONE	AREARDOM	ZONE DESCRIPTION		LOAD TYPE	DIM TYPE	LOAD (W)	K (WS)	K (LV)	0	٧	тс	Р	NOTES	
PP-1	STAIR	CUSTOM PENDANT		TBD	TBD	75		х			х			
PP-2	STAIR	DOWNLIGHTS		LED	0-10	32		х			х		(1)	
PP-3	STAIR	DOWNLIGHTS		LED	0-10	45		х			х		(1)	
PP-4	STAIR	DOWNLIGHTS		LED	0-10	45		х			х		(1)	
PP-5	STAIR	DOWNLIGHTS		LED	0-10	64		х			х		(1)	
PP-6	GALLERY	TRACK - WALL DISPLAY		LED	ELV	120		Х			х			
PP-7	GALLERY	TRACK - COLUMN AREA		LED	ELV	480		х			х			
PP-8	GALLERY	TRACK - SOUTH		LED	ELV	240		х			х			
PP-9	GALLERY	TRACK - SOUTH		LED	ELV	240		х			х		(1)	
PP-10	GALLERY	TRACK - SOUTH		LED	ELV	480		х			х			
PP-11	GALLERY	TRACK - S	DUTH	LED	ELV	240		х			х			
PP-12	GALLERY	TRACK - 5	DUTH	LED	ELV	240		х			х			
PP-13	GALLERY	TRACK - M	DDLE	LED	ELV	120		х			х			
PP-14	GALLERY	TRACK - M	DDLE	LED	ELV	120		х			х			
PP-15	GALLERY	TRACK - N	DDLE	LED	ELV	480		х			х		(1)	
PP-16	GALLERY	TRACK - M	DDLE	LED	ELV	480		х			х			
PP-17	GALLERY	TRACK - N	DDLE	LED	ELV	480		х			Х			
PP-18	GALLERY	TRACK - M	DDLE	LED	ELV	480		х			х			
PP-19	GALLERY	TRACK - N	ORTH	LED	ELV	240		х			х			
PP-20	GALLERY	TRACK - N	DRTH	LED	ELV	240		х			х			
PP-21	GALLERY	TRACK - NORTH		LED	ELV	480		х			х			
PP-22	GALLERY	TRACK - NORTH		LED	ELV	240		х			х		(1)	
PP-23	GALLERY	TRACK - N	ORTH	LED	ELV	240		х			х			
PP-24	OPEN							П			П	$\overline{}$		
PP-25	GALLERY	TRACK - MIDDLE		LED	ELV	480		х			х			
PP-26	LOWER STAIR	DOWNLIGHTS		LED	0-10	55		х			х		(1)	
PP-27	LOWER STAIR BELOW UPPER LANDING	DOWNLIGHTS		LED	0-10	22		х			х		(1)	
PP-28	STAIR EXHIBIT WALL	TRACK		LED	ELV	240		х			х			
PP-29						0								
PP-30						0								
PP-31						0								
PP-32						0								
						13.75								
нD	LAMP TYPE HIGH INTENSITY DISCHARGE		(A) PROVIDE ETHERN											
	FLUORESCENT		(B)	ET CONFECT	1014		_	_	_	_	_	_		
NC	INCANDESCENT		(C)											
	HALOGEN		(D)											
LED	LIGHT EMITTING DIODE		SPECIFIC NOTES:											
	DIM TYPE		(1) PROVIDE UL924 DI	ARROY DEL	V TO BEING	THE PERSON NAMED IN	O ELLI	CALL	erra i i	SEE C	e nou	en t	O PER PONC	
	2 WIRE FORWARD PHASE/TRIACLEADING/MLV/INC		(2)	III O PERON	/ IO asse	a comina i	O F GE	LUNIT	enri se	2020	FFUI	1005.13	J DOLDING.	
R	2 WREREVERSE PHASE/TRAILING/ELV		(3)				$\overline{}$							
	0-10V / 4 WIRE		(4)											
	LINE VOLTAGE/3 WIRE		(5)	_			_							
	DADS12		(7)				-							
	STEP DIMMING		(0)				-			_				
	NON DIM		(9)											
NA.	NON APPLICABLE													
		CONTROL INPUT TYPES: K (WS) - SCENE SELECTION KEYPAD, K (LV) - LOW VOLTAGE PUSH BUTTON DEVICE.												
		O - OCCUPANCY SENSOR, V - VACANCY SENSOR, TC - TIMECLOCK CONTROLLED, P - PHOTOCELL												
	-													



CARNEGIE BUILDING DESIGN

CITY OF FORT COLLINS 200 Mathew Street Fort Collins, CO 80524

PROJECT #: 21#8 ISSUE DATE: 09/16/22

EL001

LIGHTING SCHEDULES PERMIT SET

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systems fulfilled
policy78-3820 www.bgbuildingworks.com
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