TOWN OF LOWELL, LAKE COUNTY, INDIANA TOWN COUNCIL RESOLUTION NO. 2023- 06

A RESOLUTION ADOPTING THE ADA TRANSITION PLAN FOR THE TOWN OF LOWELL

WHEREAS, the Town Council of the Town of Lowell, Lake County, Indiana (hereinafter the "Town Council"), is the duly elected legislative body of the Town of Lowell, Lake County, Indiana (hereinafter the "Town"), a unit of local government; and

WHEREAS, in 1990 congress enacted the Americans with Disabilities Act (ADA) which, among other things, requires municipalities throughout the United States adopt standards to improve access and remove barriers for disabled persons in their use of public facilities and governmental services; and

WHEREAS, the Town believes it is in the best interest of the citizens of Lowell as well as the health and general welfare of the Town to adopt, maintain, and revise from time to time, procedures in the Town of Lowell, Indiana known as ADA Transition Plan;

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF LOWELL, LAKE COUNTY, INDIANA:

That the Town Council now approves and adopts the *Town of Lowell, ADA Transition Plan,* which is attached to this Resolution as Exhibit "A".

DULY PASSED, RESOLVED, AND ADOPTED by the Lowell Town Council of the Town of Lowell, Lake County, Indiana, this 240 day of _______, 2023.

Town of Lowell, Lake County, Indiana
By Its Town Council:

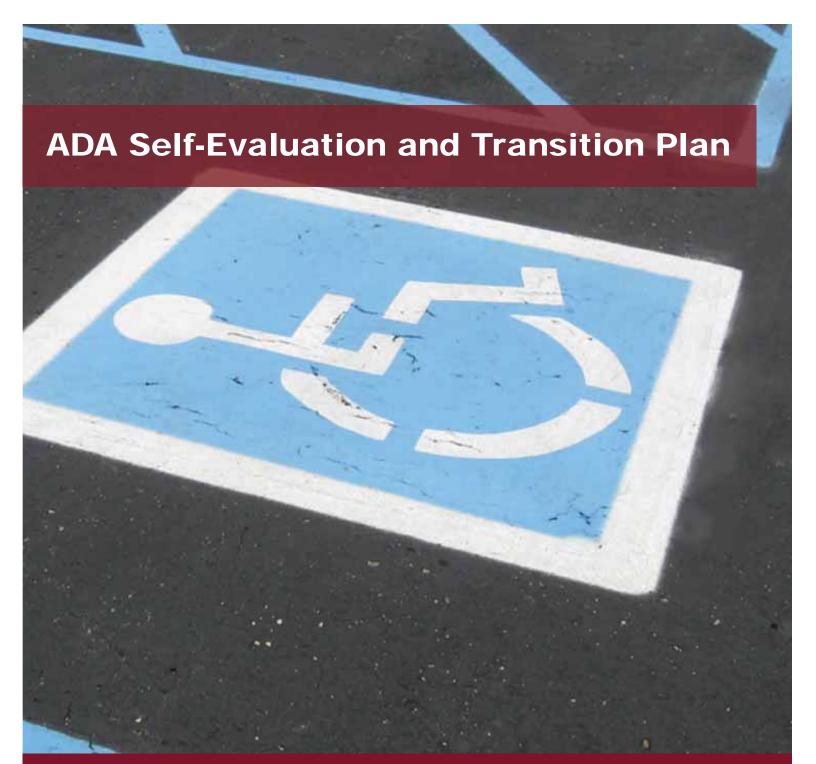
Todd Angerman, President

John Yelkich, Vice-President

Michael Groscka, Member

Shane Tucker, Member

John Alessia, Member



July 2023



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1.0 INTRODUCTION

1.1 BACKGROUND

The Americans with Disabilities Act (ADA) was enacted in July 1990, as a comprehensive civil rights law to ensure equality by prohibiting discrimination against individuals with disabilities. The ADA was signed into law to provide civil rights protection and guarantees equal opportunity in areas of employment, transportation, state and local government services, public accommodations and telecommunications services. The ADA is an expansion of Section 504 of the Rehabilitation Act of 1973, which protects qualified individuals from discrimination based on their disability and requires federal agencies and any other organizations that receive federal funding to make their programs and services accessible to all individuals with disabilities.

According to Section 504 of the Rehabilitation Act of 1973, individuals with disabilities are defined as persons with a physical or mental impairment that substantially limits any major life activities. These life activities include, but are not limited to, seeing, hearing, speaking, breathing, walking, learning, caring for oneself, working and performing any manual tasks. Examples of disabilities as defined by a physical or mental impairment include blindness or visual impairment, deafness or hearing impairment, the inability to speak, read or write, paralysis, heart disease, cancer, diabetes, and any mental illnesses, as well as many more. According to the U.S. Census Bureau, nearly 58-million people in the United States have a disability, which is approximately one in every five individuals.

1.2 ADA OVERVIEW

When signed into law in 1990, the ADA was made up of five Titles, with each providing regulations, enforcement and exemptions. Information regarding the five Titles has been made available within "A Guide to Disability Rights Laws" issued by the U.S. Department of Justice (http://www.ada.gov/cguide.htm) and is included herein. The five Titles are as follows:

TITLE I: Employment

Title I requires employers with 15 or more employees to provide qualified individuals with disabilities an equal opportunity to benefit from the full range of employment-related opportunities available to others. This would include prohibiting discrimination in recruitment, hiring, promotions, training, pay, social activities, and other privileges of employment. It also restricts questions that can be asked about an applicant's disability before a job offer is made and requires that employers make reasonable accommodations to the known physical or mental limitations of an otherwise qualified individual with disabilities, unless it results in undue hardship. Religious entities with 15 or more employees are also covered under Title I.

TITLE II: State and Local Government Activities, Public Transportation

Title II requires that State and local governments, along with their departments and agencies, give people with disabilities an equal opportunity to benefit from all of their programs, services, and activities, regardless of the department's size or receipt of federal funding. These would include, but are not limited to, public education, employment, transportation, recreation, health care, social services, courts, voting, and any town meetings.

State and local governments are required to follow specific architectural and accessibility standards in the new construction or alteration of their buildings. They must also relocate programs or provide access to otherwise inaccessible existing buildings. This would include communicating effectively with people who have hearing, vision, or speech disabilities. Public

entities are required to make reasonable modifications to policies, practices, and procedures where necessary to avoid discrimination, unless they can demonstrate that doing so would fundamentally alter the nature of the service, program, or activity being provided. They are not required to take actions that would result in undue financial or administrative burdens.

The transportation provisions of Title II cover public transportation services, such as city buses and public transit. Public transportation authorities may not discriminate against people with disabilities in the provision of their services. They must comply with requirements for accessibility in newly purchased vehicles, make good faith efforts to purchase or lease accessible used buses, remanufacture buses in an accessible manner, and unless it would result in an undue burden, provide paratransit where a fixed-route bus or rail system is currently in operation. Paratransit is an alternate mode of passenger transportation offered to individuals with a physical or mental disability that does not necessarily follow a fixed schedule, route or destination, and is generally defined as demand responsive transportation (DRT).

TITLE III: Public Accommodations

Title III covers businesses and nonprofit service providers that are public accommodations, privately operated entities offering certain types of courses and examinations, privately operated transportation, and commercial facilities. Public accommodations are private entities who own, lease, lease to, or operate facilities such as restaurants, retail stores, hotels, movie theaters, private schools, convention centers, doctors' offices, homeless shelters, transportation depots, zoos, funeral homes, day care centers, and recreation facilities including sports stadiums and fitness clubs.

Public accommodations must comply with basic nondiscrimination requirements that prohibit exclusion, segregation, and unequal treatment. They must also comply with specific requirements related to architectural standards for new and altered buildings; reasonable modifications to policies, practices, and procedures; effective communication with people with hearing, vision, or speech disabilities; and other access requirements. Additionally, public accommodations must remove barriers in existing buildings where it is easy to do so without much difficulty or expense, given the public accommodation's resources.

Courses and examinations related to professional, educational, or trade-related applications, licensing, certifications, or credentialing must be provided in a place and manner accessible to people with disabilities, or alternative accessible arrangements must be offered.

Commercial facilities, such as factories and warehouses, must comply with the ADA's architectural standards for new construction and alterations.

TITLE IV: Telecommunications Relay Services

Title IV addresses telephone and television access for people with hearing and speech disabilities. It requires common carriers (telephone companies) to establish interstate and intrastate telecommunications relay services (TRS) 24 hours a day, 7 days a week. TRS enables callers with hearing and speech disabilities who use TTYs (also known as TDDs), and callers who use voice telephones to communicate with each other through a third-party communications assistant. The Federal Communications Commission (FCC) has set minimum standards for TRS services. Title IV also requires closed captioning of federally funded public service announcements.

TITLE V: Miscellaneous Provisions

Title V contains several miscellaneous regulations, including construction standards and practices, provisions for attorney's fees and technical assistance provisions.

1.3 TITLE II COMPLIANCE

Title II of the ADA specifically addresses the requirement of making public services and public transportation accessible to those with disabilities. This is not limited to physical access to government facilities and programs, but also includes policy changes that must be made in order to provide equality to persons with disabilities and ensure they can benefit from services and programs provided by such facilities.

The Town of Lowell, including all its buildings, departments, agencies, services and accommodations, is required to be in compliance with Title II of the ADA according to the Department of Justice (DOJ). The DOJ administers the ADA, and subsequently published revised regulations for Titles II and III of the ADA in the 2010 ADA Standards for Accessible Design in September of 2010. These regulations and guidelines require the Town of Lowell to perform certain administrative responsibilities that ensure there is no discrimination against individuals with disabilities. This includes the development of a Transition Plan.

2.0 TRANSITION PLAN DEVELOPMENT

2.1 RESPONSIBILITIES AND OBJECTIVES

In order to achieve the standards, set forth by the DOJ, the Town of Lowell is developing this Transition Plan to identify physical barriers throughout the town, begin improving such barriers and implement a monitoring and evaluation schedule to continue to improve the accessibility to all individuals. All new construction within the Town of Lowell shall adhere to the standards contained within this Transition Plan. Existing pedestrian facilities within public rights-of-way must also be evaluated for compliance with Title II. This Transition Plan outlines a plan and schedule for improvements to areas that are not compliant.

Certain administrative responsibilities must be performed and included in the Transition Plan that meet the regulations and guidelines of the ADA. These would include designating an ADA Coordinator, providing notice to the public about the requirements of the ADA, providing public involvement opportunities and establishing a grievance procedure. A Self-Evaluation of the town facilities and services must then be implemented, which will further develop a schedule and budget for the Transition Plan. The Transition Plan is meant to be a continuously developing document and will require sustained review and monitoring of the progress and execution of the Plan.

2.2 ADA COORDINATOR

An ADA Coordinator is trained in the requirements of the ADA and subsequent laws pertaining to discrimination of individuals with disabilities. The coordinator is also familiar with the facilities, programs and services provided by the town, and is able to deal effectively with advocacy groups and the general public.

The person appointed as ADA Coordinator for the Town of Lowell is:

Craig Hendrix, PE
ADA Coordinator / Town Manager
501 East Main Street
Lowell, Indiana 46356

T: (219) 696.7794

E: chendrix@lowell.net

The ADA Coordinator provides the benefit of making it easier for members of the public to identify a single person to help them with questions and concerns regarding discrimination against individuals with disabilities and provides a single source of information, so questions can be answered quickly and consistently.

2.3 NOTICE TO PUBLIC

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Lowell will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities.

Employment: The Town of Lowell does not discriminate on the basis of disability in its hiring or employment practices and complies with all regulations promulgated by the U.S. Equal Employment Opportunity Commission under Title I of the ADA.

Effective Communication: The Town of Lowell will generally, upon request, provide appropriate aids and services leading to effective communication for qualified persons with disabilities so they can participate equally in the Town of Lowell's programs, services, and activities, including qualified sign language interpreters, documents in Braille, and other ways of making information and communications accessible to people who have speech, hearing, or vision impairments.

Modifications to Policies and Procedures: The Town of Lowell will make all reasonable modifications to policies and programs to ensure that people with disabilities have an equal opportunity to enjoy all of its programs, services, and activities. For example, individuals with service animals are welcomed in Town of Lowell offices, even where pets are generally prohibited.

Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of the Town of Lowell should contact the office of the ADA Coordinator as soon as possible, but no later than 72 hours before the scheduled event.

The ADA does not require the Town of Lowell to take any action that would fundamentally alter the nature of its programs or services or impose an undue financial or administrative burden.

Complaints that a program, service, or activity of the Town of Lowell is not accessible to persons with disabilities should be directed, in writing, to the ADA Coordinator.

The Town of Lowell will not place a surcharge on a particular individual with a disability or any group of individuals with disabilities to cover the cost of providing auxiliary aids/services or reasonable modifications of policy, such as retrieving items from locations that are open to the public but are not accessible to persons who use wheelchairs.

2.4 PUBLIC INVOLVMENT

Some of the most valuable information included in a Transition Plan is that which is gathered from the community. Participation from the disabled community and other interested parties is integral in the development of the Plan. This can include input from the disabled community, advocacy groups, activists, and any other similar organizations. The Town of Lowell will continue to distribute information regarding accessibility through their website and public meetings and urges the community to continue providing information regarding perceived barriers. Comments are always encouraged and should be sent to the ADA Coordinator.

2.5 GRIEVANCE PROCEDURE

This Grievance Procedure is established to meet the requirements of the Americans with Disabilities Act of 1990 ("ADA"). It may be used by anyone who wishes to file a complaint alleging discrimination on the basis of disability in the provision of services, activities, programs, or benefits by the Town of Lowell. The Town's Personnel Policy governs employment-related complaints of disability discrimination.

The complaint should be in writing and contain information about the alleged discrimination such as name, address, phone number of complainant and location, date, and description of the problem. Alternative means of filing complaints, such as personal interviews or a tape recording of the complaint will be made available for persons with disabilities upon request.

The complaint should be submitted by the grievant and/or his/her designee as soon as possible but no later than 60 calendar days after the alleged violation to:

Craig Hendrix, PE ADA Coordinator / Town Manager 155 Indiana Avenue, Suite 205 Lowell, Indiana 46356

Within 15 calendar days after receipt of the complaint, the ADA Coordinator or his/her designee will meet with the complainant to discuss the complaint and the possible resolutions. Within 15 calendar days of the meeting, the ADA Coordinator or his/her designee will respond in writing, and where appropriate, in a format accessible to the complainant, such as large print, Braille, or audio tape. The response will explain the position of the Town of Lowell and offer options for substantive resolution of the complaint.

If the response by the ADA Coordinator or his/her designee does not satisfactorily resolve the issue, the complainant and/or his/her designee may appeal the decision within 15 calendar days after receipt of the response to the Lowell Town Council, President [hereinafter "Council President"] or his/her designee.

Within 15 calendar days after receipt of the appeal, the Council President or his/her designee will meet with the complainant to discuss the complaint and possible resolutions. Within 15 calendar days after the meeting, the Council President or his/her designee will respond in writing, and, where appropriate, in a format accessible to the complainant, with a final resolution of the complaint.

If the response by the Council President or his/her designee does not satisfactorily resolve the issue, the complainant and/or his/her designee may file a complaint with the State Department of Human Rights, the Equal Employment Opportunity Commission, United States Department of

Justice, or other appropriate state or federal agency.

All written complaints received by the ADA Coordinator or his/her designee, appeals to the Council President or his/her designee, and responses from these two offices will be retained by the Town of Lowell Clerk-Treasurer for at least three years.

2.5.1 ADA GRIEVANCE FORM – ATTACHED AS APPENDIX A

3.0 FACILITY SELF-EVALUATION

In accordance with Title II of the ADA, each Town-owned building and program is required to perform an assessment of its current policies, activities and services. This is referred to as the self-evaluation process and includes identifying and documenting barriers within each facility or program that limits accessibility to individuals with disabilities. Barriers include both physical barriers with respect to accessing the public areas of the facility, as well as barriers relating to program accessibility.

Physical barriers were documented from site assessments performed by Town of Lowell staff with the use of an ADA Checklist for Readily Achievable Barrier Removal for each facility or program. These assessments included taking measurements and photo documentation of existing conditions to compare their level of compliance against the 2010 ADA Standards for Accessible Design.

In addition to identifying and documenting barriers that limit the accessibility of the facilities and services, recommendations have been provided to remove such barriers. Included with these recommendations are the governing ADA code sections referencing the applicable accessible design standards that should be adhered to in the removal of such barriers.

The self-evaluation is also comprised of a priority for the removal of each barrier. The removal of barriers and making all public spaces accessible to individuals with disabilities has been categorized into four separate priorities, which span a timeline of 12-years. Priority 1 is considered the highest priority and these items should be resolved immediately in the first year. Priority 2 includes issues also with a high level of concern and should be corrected in years two through four. Priority 3 includes areas that are not as severe and should likely be rectified during years five through eight. All other remedies required are considered the least severe in Priority 4 and should be resolved in years nine through twelve. These priority levels may be adjusted or altered based on the actual needs of the town, implementation of other repairs that may factor into the issues noted, and availability of funding required in putting these renovations in place.

Finally, cost data has been included as budgetary information for each identified barrier and recommendation for removal. This cost data is only to be used as a guide.

The removal of barriers throughout the Town of Lowell is not solely predicated on priority, but also on the availability of funding necessary for the required renovations. Cost data has been provided in each detailed Self-Evaluation report for budgetary purposes. A comprehensive table has also been included in this Transition Plan that identifies each facility or program available to the community and the approximate costs required to rectify the barriers associated with each Priority level. This table has been included here within.

3.0.1 FACILITIES COST DATA – ATTACHED AS APPENDIX C

The detailed evaluation for each building or program will include the identification of barriers documented that limit the accessibility by individuals with disabilities, as well as recommendations for renovations, their priority level and cost data required to eliminate such barriers. These detailed self-evaluation reports have been included here within.

3.0.2 SELF-EVALUATION REPORTS – ATTACHED AS APPENDIX B

The facilities and programs identified by the Town of Lowell requiring evaluation that are included in Appendix B are provided below with additional information, including a short summary of what each of these provide to the public.

3.1 LOWELL TOWN HALL

501 East Main Street

The Lowell Town Hall is a single-story facility with an adjacent connected parking lot. The facility consists of numerous Lowell offices including Planning and Zoning, Building, Clerk-Treasurer, Town Manager, Engineering, Public Works, Utility, Parks and the Lowell Town Court. Public meetings such as Town Council, Plan Commission, BZA, Police Merit Board, Lowell Redevelopment Commission and Town Court also utilize Town Hall. The areas of the facility considered available for the public use include various offices, Council Chambers, central corridors and public restrooms, which therefore are required to be accessible to individuals with disabilities. Major ADA upgrades were completed in 2021 including improvements to its website, its ability to live stream public meetings, enhancements to the public restrooms, automatic doors at the front entrance and a new accessible ramp and automatic door at the rear entrance to provide an additional accessible location.

3.2 LOWELL STREET DEPARTMENT

598 Union Street

The Lowell Street Department consists of a number of buildings that house maintenance equipment and tools as well as the Street Superintendent's office and staff area. This facility is not meant for the public. Meetings between the public and the Street Superintendent are held at the Lowell Town Hall. The Town of Lowell anticipates beginning construction on a new facility in the fall of 2023. The new facility will be fully ADA compliant. No self-evaluation was conducted at this site. Selected plan sheets of the proposed facility can be found in Appendix F.

3.3 LOWELL WASTEWATER TREATMENT PLANT

7505 Belshaw Road

The Lowell WWTP consists of one office and numerous wastewater processing buildings. The office building consists of the Superintendent's office, laboratory, staff room and restroom facilities. Limited areas of the facility are considered open and accessible to the public, which includes the Superintendent's office and public restrooms. The remaining buildings are wastewater process buildings and are not available to the public.

3.4 LOWELL POLICE DEPARTMENT

1331 Commercial Avenue

The Lowell Police Department is a single-story facility with a full basement. The facility houses the staff offices, holding cells, evidence rooms and storage. The public enters the front entrance into a lobby area where they are greeted by a receptionist or an officer. Only those having official police business are allowed past the lobby.

3.5 LOWELL VOLUNTEER FIRE DEPARTMENT

1331 Commercial Avenue

The Lowell Volunteer Fire Department Building is a single-story, metal frame building. It contains garage bays for housing firefighting equipment and vehicles and administration/living quarters. In 2022 Lowell completed a facility assessment. The facility lacks compliance with accessibility requirements. Lowell anticipates remodeling the facility in the near future. The facility assessment is attached as Appendix E.

3.6 EVERGREEN PARK

Comercial Avene

Evergreen Park consists of playground equipment, two covered shelters, basketball court, restroom facilities, storage building, fishing pond and shelter and a parking area. Extensive ADA improvements were completed in 2022 that included restroom remodeling, parking rehabilitation

and sidewalk construction. All areas except for the storage building are accessible to the public.

3.7 MOOSE PARK Fremont Street

Moose Park is a small neighborhood park consisting of open space, playground equipment, covered shelter, and a parking area. Extensive ADA improvements were completed in 2022 that included parking rehabilitation and sidewalk construction. All areas are accessible to the public.

3.8 **RESERVATION PARK**

731 Mohawk Drive

Reservation Park is a neighborhood park consisting of open space, playground equipment, covered shelter, and a basketball court. Parking is on-street. Extensive ADA improvements were completed in 2022 that included sidewalk construction and a new concrete shelter pad. All areas are accessible to the public.

3.9 FREEDOM PARK

17105 Cline Avenue

Freedom Park is a 114-acre park consisting of playground equipment, covered shelter, skateboarding facility, soccer fields, gazebo, dog parks, disk golf, restroom facilities, parking lots and storage buildings. It is also the location of the town's former park offices. These offices are planned to be demolished in the winter of 2023. All areas except for the storage buildings and former park offices are accessible to the public. No self-evaluation was performed on the offices to be demolished.

3.10 NASSAU PARK (aka LIBERTY PARK)

128 Washington Street

Nassau Park will be closed for renovation in the fall of 2023. The new facility will include a community room, performance stage, playground, splash pad, parking facilities, extension of Freedom Trail and other similar amenities. No self-evaluation was performed at this location due to its pending renovation. Selected renderings of the proposed park can be found in Appendix G.

3.11 LOWELL STREET DEPARTMENT STORAGE BUILDING

248 Liberty Street

This facility is a conditioned storage building utilized for the storage of maintenance equipment. No staff are assigned to this facility and is not open to the public. No inspection was performed at this location.

3.12 LOWELL SOUTH PARKING LOT

306 E. Commercial Avenue

This facility is a municipal parking lot. It was constructed in 2019 and is compliant with appropriate accessibility standards.

3.13 LOWELL NORTH PARKING LOT

125 Clark Street

This facility is a municipal parking lot. It was constructed in 2018 and is compliant with appropriate accessibility standards.

4.0 FACILITY TRANSITION PLAN

4.1 ONGOING SELF-EVALUATION

Self-Evaluation is a continuous process of identifying barriers and is integral to the success of the Transition Plan. While thorough site assessments were administered to document all areas and services limiting access by individuals with disabilities, constant review by the Town of Lowell and input from the community is necessary to ensure ongoing compliance with the ADA. Periodic

public meetings shall be conducted seeking information from individuals with disabilities regarding perceived barriers that still exist. This information shall be constantly documented and integrated into the Transition Plan.

4.2 REMOVAL OF BARRIERS

The goal of the Transition Plan is to identify and remove all barriers in the facilities operated and programs offered by the Town. While it is critical to remove barriers and provide accessibility to all individuals with disabilities, it is simply not feasible to immediately eliminate all perceived barriers. Therefore, the implementation of corrections required must be a phased process based on a level of priority and funding resources available. Priorities have been included within each detailed Self-Evaluation report but will be modified based on public perception of individuals with disabilities. The priorities have been categorized in the following four levels:

4.2.1 **Priority 1**

Priority 1 is considered the highest level of priority. Issues noted in the Self-Evaluation reports marked as Priority 1 should be corrected immediately in the first year. These barriers will likely present a safety hazard or completely prohibit access for an individual with a disability. They may also be included in this priority based on frequency of use. Examples of barriers requiring removal or renovation in this category include, but are not limited to:

- No accessible parking or accessible routes to a facility are provided.
- Inaccessible public restrooms.
- Inaccessible restroom accessories due to extremely excessive reach ranges.
- Inaccessible door hardware and doors requiring too much pressure to operate.
- Lack of grab bars or handrails.
- Inaccessible countertops that are utilized more frequently.

4.2.2 Priority 2

Priority 2 is considered a high level of priority. Issues noted in the Self-Evaluation reports marked as Priority 2 should be corrected within the first four years. These barriers will likely partially prohibit access or require great effort for an individual with a disability. They will also be based on frequency of use. Examples of barriers requiring removal or renovation in this category include, but are not limited to:

- Insufficient accessible parking or accessible routes to a facility are provided.
- Excessive slope in ramps or walks on an accessible route.
- Excessive changes in level along an accessible route.
- Inaccessible restroom accessories due to slightly excessive reach ranges.
- Grab bars or handrails located extremely high or low.
- Inaccessible countertops that are utilized, but not as often.

4.2.3 Priority 3

Priority 3 is considered a medium level of priority. Issues noted in the Self-Evaluation reports marked as Priority 3 should be corrected as soon as feasibly possible, but likely between years five to eight. These barriers won't prohibit access but will likely require additional effort for an individual with a disability. Examples of barriers requiring removal or renovation in this category include, but are not limited to:

- Issues with signage or accessible parking designations.
- Minor slope issues in ramps or walks on an accessible route.
- Minor dimensional issues with fixture locations.
- Grab bars or handrails located a little too high or low.
- Incorrectly located flush valves.

4.2.4 Priority 4

Priority 4 is considered the lowest level of priority. Issues noted in the Self-Evaluation reports marked as Priority 4 should be corrected whenever possible, but within the first twelve years. These barriers will likely only require minimal additional effort for an individual with a disability. They will also be based on their irregularity of use. Examples of barriers requiring removal or renovation in this category include, but are not limited to:

- Minor issues with signage.
- Minor dimensional issues with fixture locations at auxiliary locations.
- Excessive slope in ramps or walks or changes in level along an auxiliary route.

5.0 RIGHT-OF-WAY SELF-EVALUATION

5.1 CURB RAMPS

Curb ramps provide critical access between the sidewalk and the street for people with mobility impairments. They allow a person in a wheelchair to navigate from the sidewalk to the street, or vice versa, without the barrier of a curb. However, since visually impaired people rely on the curb to identify a transition from sidewalk to street, the use of detectable warnings is necessary in a curb ramp. Curb ramps should be designed to minimize grade, cross-slope and changes in level experienced by users.

Each corner of an intersection should have two curb ramps, each oriented in the direction of pedestrian crossing to the adjacent corner. In some situations, only one curb ramp may be practical, located in the center of the radius. These options and types of ramps are described below.

Exception: In the case of an intersection where pedestrian travel is not permitted and only one curb ramp is provided for to serve only one direction of travel, the curb ramp shall be aligned and oriented parallel to the intended direction of travel.

5.2 SIDEWALKS

Sidewalks provide people the space to travel within the public right-of-way separated from motor vehicles and on-road bicycles. They should be level, hard surface and be separated from motor

vehicles traffic by a curb, buffer, or curb with buffer. Continuous and accessible sidewalk networks improve mobility for all pedestrians and are particularly important for pedestrians with disabilities.

Sidewalks should be part of all new and renovated development. Streets that do not have sidewalks, particularly those on routes with heavy users (e.g. schools, parks, shopping areas, transit stops, etc.), should be identified and assessed to determine if retrofitting these streets with sidewalks is appropriate. Where feasible, sidewalks should be provided on both sides of the street. A sidewalk on only one side forces pedestrians to either walk in the street or cross the street twice to get to the side with a sidewalk and back again.

6.0 PLAN & SCHEDULE FOR RIGHT-OF-WAY IMPROVEMENTS

6.1 INVENTORY METHODOLOGY

The Town's ramp and sidewalk self-evaluation process began 2013 with the development of its initial transition plan. As the town completed infrastructure improvements (i.e. street resurfacing, parking lot improvements, building renovations, etc.), inventories were modified to account for these improvements. New improvements constructed in new developments were also added to the inventory. Current sidewalk and curb ramp data and maps can be found in Appendix H.

6.2 EVALUATION

Sidewalks and curb ramps are evaluated taking into account the following criteria and the Public Rights-of-Way Accessibility Guidelines (PROWAG):

Curb Ramps: Whether existing curb ramp(s) are present at any of the corners within the intersection.

Sidewalks: Whether a sidewalk is present. If present, the paved sidewalk width at the intersection.

Directional Corner of Intersection: NE, SE, SW, NW (Note: All corners will be referred to by one of these compass points)

Obstructions and Obstacles: The general presence and nature of abrupt changes in sidewalk level greater than one-half inch, paving obstructions or accessibility obstacles immediately adjacent to the corner (e.g. utility pole, traffic signal pole, drain inlet, fire hydrant, street furniture, newsstand, etc).

Width: Width of the ramp section of the curb ramp.

Running Slope: Slope of the ramp or sidewalk in the direction that people travel when going up or down the ramp run.

Cross Slope: Slope of the ramp or sidewalk perpendicular to the running slope. Unlike the running slope, which runs along the ramp, the cross slope is measured *across* the ramp.

Gutter Slope: The gutter is the part of the street that borders the curb. The gutters slope is parallel to the ramp and perpendicular to the curb.

Transitions: Transitions on and off the curb ramp are the points where the gutter meets the bottom of the ramp and where the top meets the sidewalk. Transitions are required to be flush and cannot have any abrupt changes.

Detectable Warnings/Truncated Domes: Whether truncated domes are present. Truncated domes shall extend the entire width of the ramp.

Car Obstructions: Curb ramps shall be located where they will not be obstructed by parked vehicles.

Clear Space: Curb ramps shall have at least 36 inches of clear space at the "top" of the ramp for pedestrians to bypass the curb ramps without traveling over it. Sidewalks shall have at least 36 inches of clearance around obstructions and obstacles.

Side Slope(s): Whether a side slope or parallel slope is present, and if present, the slope of each sloping side or flare parallel to the street.

Built-up Curb Ramp: Whether a built-up ramp is present. A built-up ramp typically consists of asphalt or concrete that is placed and shaped into a ramp that runs at a 90-degree angle away from an intact curb down to the roadway.

Located in Crosswalk: Curb ramp wholly contained in marked crosswalk, if applicable.

Common Landing: Dimensions of any common landing for two curb ramps.

Traffic Control: Whether traffic signals, stop signs, yield control, roundabout, or no traffic control.

Median: If present, then the presence of curb ramps and push buttons.

Crosswalk: Whether crosswalk is present at any or all crossings. If present, the width, type, alignment, running slope, and cross slope.

Pedestrian Signal(s): Whether visual or accessible pedestrian signals are present. If present the type, size, height and location of actuator buttons. Additionally, the pedestrian signal timing shall be recorded for a walking speed of 3.5 ft/sec.

6.3 SCHEDULE OF IMPROVEMENTS

Generally speaking, the Town of Lowell includes modifications to bring curb ramps and sidewalks into compliance in its street resurfacing and site improvement projects. The Town also installs/repairs sidewalks and curb ramps in areas that don't currently have sidewalks as funds become available. 50/50 programs are being contemplated by the Lowell Town Council to assist residents in making repairs to sidewalks at their residence. On occasion, public requests are made by those with special needs. These requests are given priority depending upon the nature of their request.

The Town of Lowell will also work to implement necessary modifications to its facilities and programs pursuant to its priority schedule and available funding.

7.0 SETP CONTINUED COMPLIANCE

The Town of Lowell intends to remain compliant with its Self-Evaluation and Transition Plan (SETP) by revising it at least every three years and preparing annual Goals and Accomplishments reports. The Town will continue to implement the necessary modifications with the resources available to remove barriers perceived by individuals with disabilities. This includes providing equality among all citizens by offering accessible services and programs, including the availability of alternate forms of communication. The Town is also committed to providing ongoing education and training to all staff members with regards to the current ADA regulations in force.

While it is important to ensure that the renovations outlined are in accordance with current codes and standards, it is equally important that ADA improvements are constructed properly and in compliance with all applicable regulations. Therefore, the monitoring of construction activities and reporting of the continued status of improvements is vital in assuring an effective overall compliance program.

APPENDIX A

ADA GRIEVANCE FORM

Town of Lowell ADA Grievance Form

Please read the attached Complaint, Grievance and Appeal Process Policy & Procedures
Please Print Clearly

Foday's Date:							
Grievant:							
Address:							
City, State, Zip:							
Individual Discriminated Against:							
Address:							
City, State, Zip:							
Alleged Violation: Date(s) of Occurrence:							
Describe violation and identify Town department involved:							
Has complaint been filed with a State or Federal agency: YESNO							
Name of Agency:Date Filed:							
Contact Person:							
Address:							
Phone:							
Grievant's Signature:							

For a complaint to be acted upon, it must be documented in writing with the complainant's signature and address. The initial complaint, whether verbal or written, should be directed to the ADA Coordinator within 60 calendar days of the incident. Forms are available on the Town's website (www.Lowell.net/) and at the Lowell Town Hall, 501 E. Main Street, Lowell, IN 46356. If you need assistance completing this form, please call (219) 696.7794.

APPENDIX B

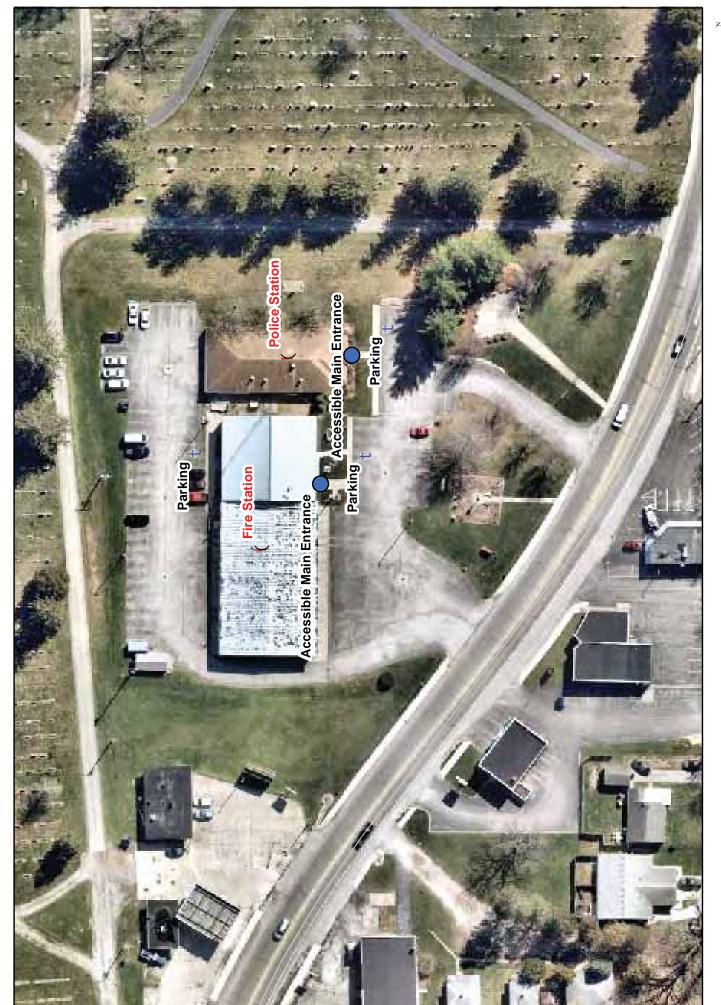
FACILITY SELF-EVALUATIONS



Document Name: Lowell_Facility Map_2023



Document Name: MooseParkTownHalll_Facility Map_2023





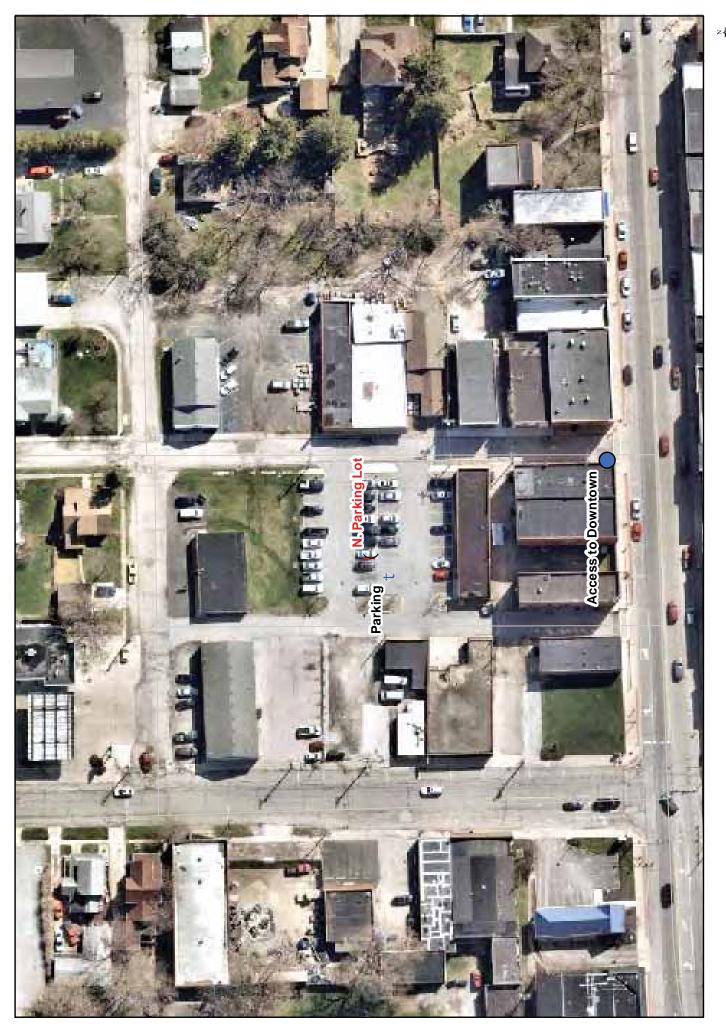






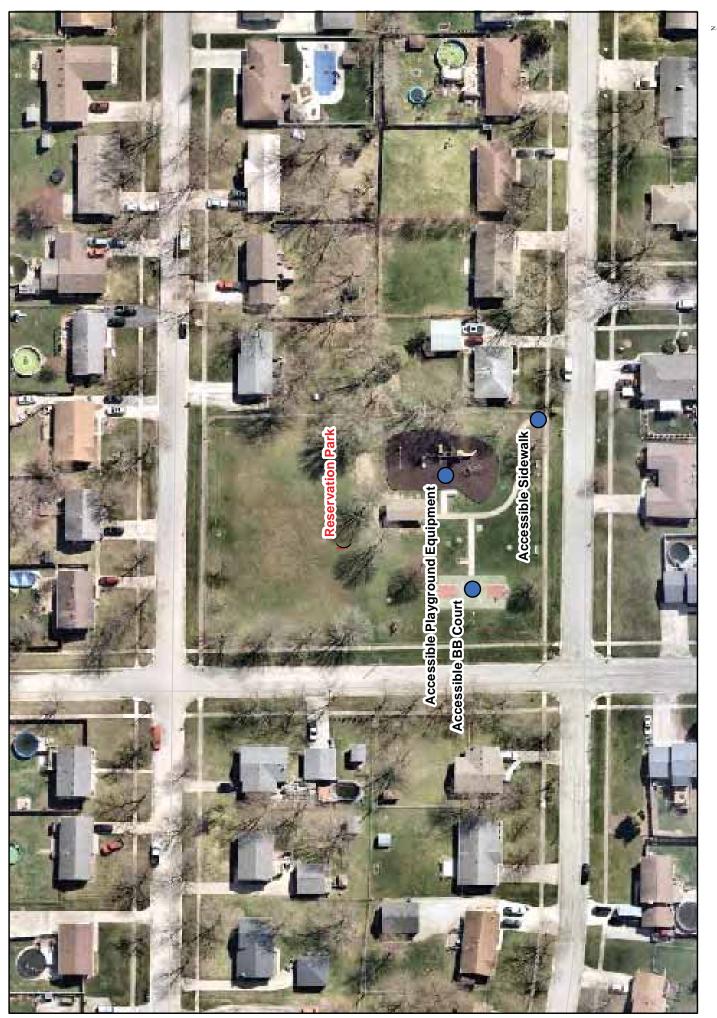












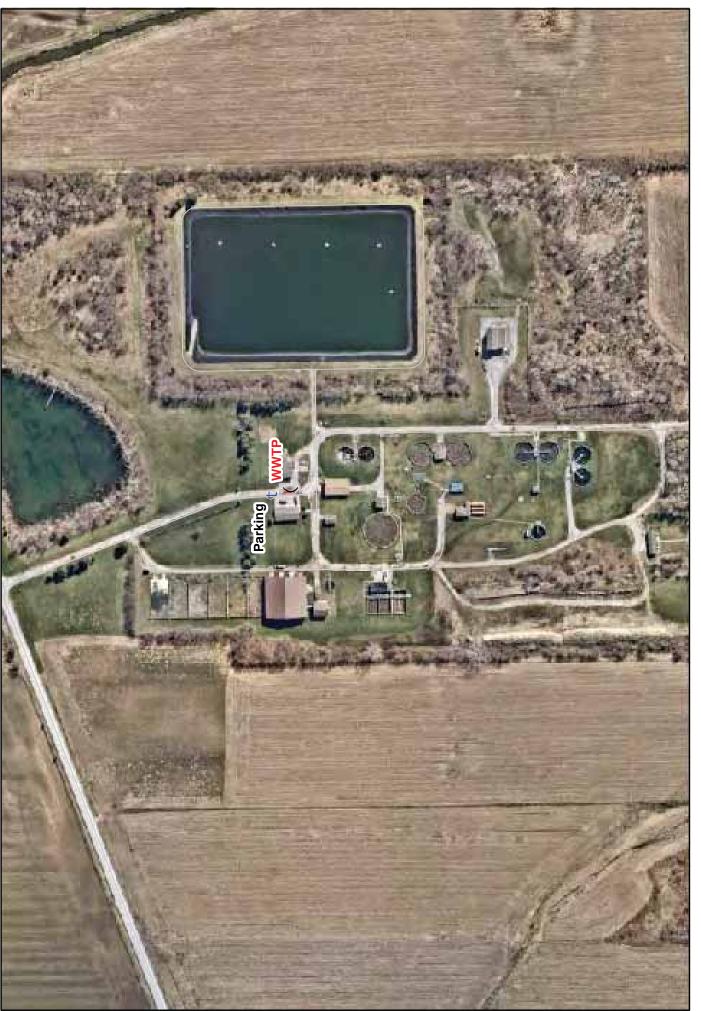














Lowell Town Hall Self-Evaluation

				Estimated	2010 ADA	PROWAG
Location	Comment	Solution	Priority	Cost	Standards	Standards
		Exterior Locations				
Parking Facilities						
Striping	Striping is worn and difficult to see	Seal parking lot and restripe.	2	\$ 12,000	502	
Signage	No accessible parking signage	Install signage including Van Accessible	1	\$ 1,500	502	
Accessible Route						
Walkways	Areas of verticle and horizontal gaps exceed 1/2"	Edge grind, replace or install joint compound in gaps	4	\$ 300		R302
		Interior Locations				
Service Counters	The service counter for the Clerk- Treasurer's office exceeds allowable height.	Provide minimum 24" wide portion of each counter to be a maximum of 36" above floor. In the interium, utilize the service counter for the Building Department directly across.	4	\$ 1,500	904	
Signage	No wall signage	Install directional, informational, and means of egress signage throughout building on latch side of doors between 48" to 60" above floor.	4	\$ 600	216, 703	
Restrooms	Urinal exceeds maximum height of 17-inches	Reinstall urinal at correct height	4	\$ 500	605	

Total Estimated Repair Cost \$ 16,400

Lowell Wastewater Treatment Plant Self-Evaluation

				Estima		2010 ADA	PROWAG
Location	Comment	Solution	Priority	Cost	į į	Standards	Standards
		Exterior Locations					
Parking Facilities							
Striping	No accessible parking space identified	Install Van Accessible striping	2	\$	500	502	
Signage	No accessible parking signage	Install signage including Van Accessible	1	\$	600	502	
Accessible Route							
	Areas of verticle and horizontal gaps	Edge grind, replace or install					
Walkways	exceed 1/2"	joint compound in gaps	4	\$	300		R302
		Interior Locations					
		Install directional, informational,					
		and means of egress signage					
		throughout building on latch					
		side of doors between 48" to 60"					
Signage	No wall signage	above floor.	4	\$	250	216, 703	
		Install ADA compliant mirrors in					
		the men's and women's					
Restrooms	Mirror not compliant	restrooms	4	\$	500	605	

Total Estimated Repair Cost \$ 2,150

Lowell Police Department Self-Evaluation

				Es	timated	2010 ADA	PROWAG
Location	Comment	Solution	Priority		Cost	Standards	Standards
	E)	kterior Locations					
Parking Facilities							
Accessible Parking	Existing space is parallel to the sidewalk						
Spaces	and is not adequate.	Reconfigure parking space.	1	\$	8,000	502	
		Install signage including Van					
Signage	No accessible parking signage	Accessible	1	\$	1,500	502	
Accessible Route							
	Areas of verticle and horizontal gaps	Edge grind, replace or install					
Walkways	exceed 1/2"	joint compound in gaps	4	\$	300		R302
		Replace existing sidewalk in front					
		of entry door to allow for a					
	Insufficient Maneuvering area in front of	minimum 60" of area					
Maneuvering Area	entry door.	perpenduclar to the door.	1	\$	600	404	
Automatic Door	Entry door automatic opener doesn't work						
Opener	consistently.	Repair door opener push button	1	\$	200	404	
				L			
	Ir	nterior Locations					T
		Provide minimum 24" wide					
		portion of each counter to be a					
		maximum of 36" above floor. In					
	The service counter for the Clerk-	the interium, utilize the service					
	Treasurer's office exceeds allowable	counter for the Building					
Service Counters	height.	Department directly across.	4	\$	1,500	904	
on the equitors	- Indigniti	Dopai iment all eathy acrees.		Ť	.,000	701	
		Install directional, informational,					
		and means of egress signage					
		throughout building on latch side					
		of doors between 48" to 60"					
Signage	No wall signage	above floor.	4	\$	600	216, 703	
	Clearence issues around toilet. Sink						
	obstructs 60" min clearance from side						
	wall. Entry door obstructs the						
	maneuvering area. Mirror not compliant.	Investigate options to expand					
Public Restrooms	No occupancy sensor.	room beyond current size.	4	\$	12,000	604	

Total Estimated Repair Cost \$ 24,700

Lowell Evergreen Park Self-Evaluation

				Estimated	2010 ADA	PROWAG
Location	Comment	Solution	Priority	Cost	Standards	Standards
	Parking	Trail and Sidewalk Locations		<u> </u>		<u>. </u>
Accessible Route						
	Areas of verticle and horizontal gaps	Edge grind, replace or install joint				
Walkways	exceed 1/2"	compound in gaps	3	\$ 300		R302
	Playgroud,	Restroom and Shelter Locations		1		
0 0			_	4 4 000		
Shelter Picnic Table	No accessible picnic tables	Intall ADA compliant picnic table.	1	\$ 1,200	904	
	No insulation placed around lavatory drain	Install insulation around lavatory				
Restroom	and piping.	drain and piping to prevent burning.	2	\$ 50	602	
	1 1 1					
		Playground surface consists of crum				
		rubber. Surface needs maintenance				
		to eliminate rutting. An accessible				
Playground Accessible		route should be installed to access				
Route	No accessible route within play area	ground level play equipment.	2	\$ 6,000	206	

Total Estimated Repair Cost \$ 7,550

Lowell Moose Park Self-Evaluation

				Estimated	2010 ADA	PROWAG
Location	Comment	Solution	Priority	Cost	Standards	Standards
	Pai	rking and Sidewalk Locations				
Accessible Route						
	Areas of verticle and horizontal gaps	Edge grind, replace or install joint				
Walkways	exceed 1/2"	compound in gaps	3	\$ 300		R302
	Pla	ygroud and Shelter Locations		.		,
Shelter Picnic Table	No accessible picnic tables	Intall ADA compliant picnic table.	1	\$ 1,200	904	
Playground Accessible		Playground surface consists of crum rubber. Surface needs maintenance to eliminate rutting. An accessible route should be installed to access				
Route	No accessible route within play area	ground level play equipment.	2	\$ 3,000	206	

Total Estimated Repair Cost \$ 4,500

Lowell Reservation Park Self-Evaluation

				Estimated	2010 ADA	PROWAG
Location	Comment	Solution	Priority	Cost	Standards	Standards
	Pa	rking and Sidewalk Locations				
Accessible Route						
		Stripe one on-street accessible				
		parking spot at park entrance.				
		Construct sidewalk from curb to				
		existing sidewalk. Provide				
Parking	No accessible parking space	accessible signage	1	\$ 4,000		R302
	Areas of verticle and horizontal gaps	Edge grind, replace or install joint				
Walkways	exceed 1/2"	compound in gaps	3	\$ 300		R302
	Pla	ygroud and Shelter Locations				
Shelter Picnic Table	No accessible picnic tables	Intall ADA compliant picnic table.	1	\$ 1,200	904	
		Remove and eliminate existing				
Drinking Fountain	Drinking fountain not accessible	fountain.	1	\$ 50	602	
		Playground surface consists of crum				
		rubber. Surface needs maintenance				
		to eliminate rutting. An accessible				
Playground Accessible		route should be installed to access				
Route	No accessible route within play area	ground level play equipment.	2	\$ 3,000	206	

Total Estimated Repair Cost \$ 8,550

Lowell Freedom Park Self-Evaluation

				Estimated	2010 ADA	PROWAG
Location	Comment	Solution	Priority	Cost	Standards	Standards
	Parking	g, Trail and Sidewalk Locations				
Accessible Route						
Parking	Existing parking lots are stone. No designated accessible parking spots are identified.	Town will utilize bienial CDBG funding to reconstruct parking lots to provide accessible parking spots. Sidewalks will be installed to connect accessible spots to existing walking trails, sidewalks and dog park entrances.	1	\$ 980,000		R302
J	Areas of vertical and horizontal gaps	Edge grind, replace or install joint		, ,		
Walkways	exceed 1/2"	compound in gaps	3	\$ 300		R302
	Playground	d, Restroom and Shelter Locations				I I
Shelter Picnic Table	No accessible picnic tables	Install ADA compliant picnic table.	1	\$ 1,200	904	
Restroom	Women's restroom does not provide sufficient maneuvering room.	Change restroom into single occupancy. Remove existing dividing walls and center toilet to increase maneuvering area.	1	\$ 400	602	
Playground Accessible Route	No accessible route within play area	Playground surface consists of crum rubber. Surface needs maintenance to eliminate rutting. An accessible route should be installed to access ground level play equipment.	2	\$ 3,000	206	

Total Estimated Repair Cost \$ 984,900

APPENDIX C

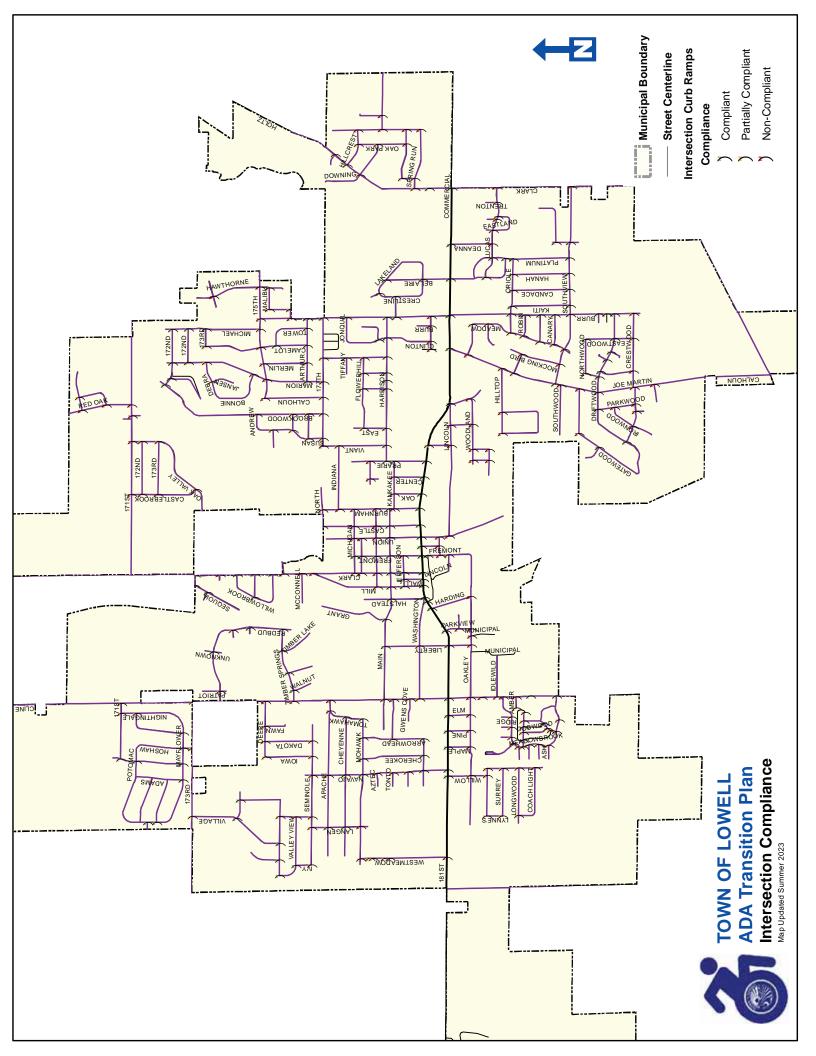
FACILITIES COST DATA

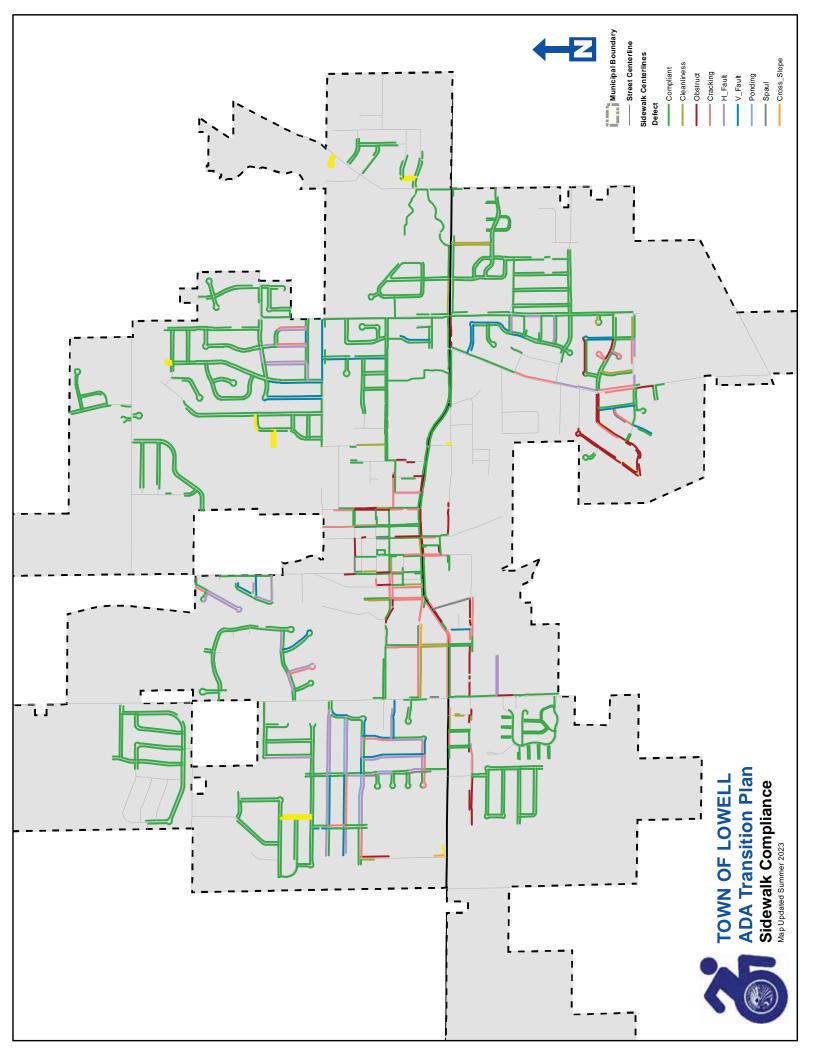
Facilities Cost Data

Facility Name	Prio	ority 1	Pri	iority 2	Prio	ority 3	Pr	iority 4	To	tal Cost
Lowell Town Hall	\$	1,500	\$	12,000			\$	2,900	\$	16,400
Lowell Street Department									\$	-
Lowell Wastewater Treatment Plant	\$	600	\$	500			\$	1,050	\$	2,150
Lowell Police Department	\$	10,300					\$	14,400	\$	24,700
Lowell Volunteer Fire Department									\$	182,750
Evergreen Park	\$	1,200	\$	6,050	\$	300			\$	7,550
Moose Park	\$	1,200	\$	3,000	\$	300			\$	4,500
Reservation Park	\$	5,250	\$	3,000	\$	300			\$	8,550
Freedom Park	\$	980,000	\$	3,000	\$	300			\$	983,300
Nassau Park									\$	-
Lowell Street Department Storage Building									\$	-
Total Cost	\$	1,000,050	\$	27,550	\$	1,200	\$	18,350	\$	1,229,900

APPENDIX D

CURB RAMP AND SIDEWALK DATA





TOWN OF LOWELL CURB RAMP AND SIDEWALK DATA

Curb Ramps

Total Intersections	369
Compliant Intersections	144
Partially Compliant Intersections	118
Non-Compliant Intersections	102
Intersections Updated Since 2018	93

SIDEWALKS

Total Number of Sidewalks

383,212 linear feet

APPENDIX E

LOWELL VOLUNTEER FIRE DEPARTMENT FACILITY ASSESSMENT

Town of Lowell, Indiana

501 East Main Street Lowell, IN 46356



Fire and EMS Facility Assessment

1331 E. Commercial Ave. Lowell, IN 46356

9/23/2022

Prepared by:



In consultation with:





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1. Executive Summary

The team visited the site on August 3, 2022. The purpose of the visit was to record the conditions of the building's interior, exterior, structural system, site, and building systems. The site and building systems will be summarized later in this report.

The walls of the administration corridor are finished with a chrome plastic wallcovering, as wainscoting, with painted drywall above and a wood chair rail between the finishes. The flooring in the corridor, kitchen, restroom, meeting room, is finished with luxury vinyl tile. The flooring in the offices is finished with carpet tile. The ceiling, throughout the living quarters and administration area, is finished with acoustic ceiling tile that shows major signs of wear and tear. Some of the office walls have missing chair rails and painted wood paneling. The walls of the communication room have torn wood paneling wainscoting, as well as a combination of tile and terrazzo flooring. There is also chipped paint on the walls of the communication room

The layout of the administration / living quarters interior varies from the original floor plan. The original women's dormitory has been converted into a conference room. There are a couple of beds that are separated from the rest of the men's dormitory room by a partition wall and a couple of beds that are separated by a curtain. There is no separation between the men and women's toilet / shower rooms. There is no separation between the men and women's locker rooms. The original women's shower/toilet is now a private restroom.

Many of the spaces are being used as storage. The building lacks sufficient storage space. The area originally intended for the women's locker room is now a storage area. The mezzanine area of the garage is also used for storage. The closet in the dining and meeting room, originally indicated as chair & table storage in plan, is used as general storage.

Overall, it is recommended that the administration and living quarters be expanded to allow for more training areas and public meeting spaces. The building needs more space for restrooms and showers. The facility also lacks sufficient office space and reception area. The fire chief and assistant fire chief both occupy the same office. The sleeping areas should be expanded to allow for men and women dormitories. There is not enough space for IT equipment. The IT equipment is currently housed in a small closet. The restrooms and corridors need to be renovated to meet current accessibility requirements.

The exterior of the administration / living quarters is made up of a combination of metal wall panels and aggregate stone panels. The stone panels show wear and tear from freeze / thaw cycles. The exterior of the apparatus bay is made up of metal wall panels with no major defects.

The apparatus bay appears to be in good condition. The turnout gear lockers are spread out throughout the apparatus bay. The gear lockers are in adequate condition. Currently, the apparatus bay does not allow for future expansion for additional vehicles. There are 4 fire engines and 2 ambulances. The apparatus bay has six overhead doors on the south side and four overhead doors on the north side. The apparatus bay is where the gear is washed and stored. The facility does not have an area for gear decontamination. It is

recommended that the fire station develop new standards for decontamination. A transitional zone would allow firefighters to shower and change into clean clothing prior to entering the cleaning zone where clean gear is stored and dried.

2. Site Summary

2.1 Introduction

The existing site is located at 1331 E. Commercial Avenue in Lowell, Indiana. The Lake County GIS indicates the site to be approximately 2.2 acres. The site contains two buildings. Building 1, the Fire and EMS Building, is the subject of this assessment. Building 2 is the Police Station. The buildings are approximately 17-feet apart which has impact on the code requirements for the facility. It has been noted by the staff that conflicts arise when emergency vehicles from both agencies depart from the site. The access drive on the west side of the facility is narrow and contains blind spots for potential conflicts of emergency vehicles. It appears that the public access to the facility is through the same drive as the fire and EMS apparatus access. The needs of the site and facilities will be further studied in Task II of the comprehensive planning process.

2.2 Existing Site Layout



2.3 Site Zoning and Setbacks

- Based upon the Lowell, Indiana Code of Ordinances, the site is zoned R2 –
 Residential District. This district is established to provide for the medium density
 development of medium-sized single-family detached homes on medium-sized
 lots. This district should be protected from conflicting land uses and be in proximity
 to agriculture districts in a way that does not inhibit farming practices.
- The Zoning District Intent, Uses and Standards states fire and police stations are considered special uses within R2 zones. Therefore, fire and police stations are permitted in R2 districts, if approved by the Board of Zoning Appeals.
- Section 155.071 in the Ordinances states no structure, parking area, or other site feature shall be enlarged, altered, or expanded unless the minimum improvements required by District standards are met.
- R2 District standards:

Front setback
Side setback
Rear setback
30 feet min.

- o Refer to Appendix A for additional R2 Residential District standards.
- Lowell, Indiana Code of Ordinances to reference:

Title I: General ProvisionsTitle V: Public Works

o Title IX: General Regulations

o Title XV: Land Usage

2.4 Site Utilities

- Electrical service 120/208V, 3-phase 200A power system.
- Natural gas.
- 2-inch domestic water service from 6-inch water main at Commercial Ave (SR 2).
- 8-inch sanitary sewer.
- Storm drains appear to function properly. No evidence of pooling or flooding was observed.

3. Building Summary

3.1 Introduction

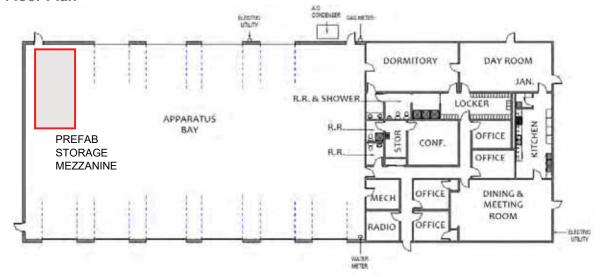
The existing building was designed and constructed in 1981 and 1982 according to the existing drawings. The apparatus bays are constructed utilizing a pre-engineered steel building with exposed fastener metal wall panels and standing seam roof panels. The apparatus bay building structure is composed of steel rigid frames with conventional concrete spread footings, zee purlins spaced at 5' supporting the roof panels, and multiple rows of zee girts supporting the wall panels. The Lateral Force Resisting System consists of a steel rod X-bracing roof diaphragm and steel rigid frames. The interior walls of the bays have continuous metal liner panels. The roofing system over the apparatus area is

a gable roof with a relatively low slope that appears to be 1" over 12", common for a preengineered structure. The area of the apparatus bay is 8,400 square feet.

A prefabricated storage mezzanine structure, manufactured by Equipto, has been installed in the northwest corner of the Apparatus Bay area. This structure has been set directly on the interior slab on grade and contains a flight of stairs to access the upper storage level. No load limit placard was posted on the mezzanine.

The administration and living quarters are constructed utilizing a steel frame, steel joists with conventional concrete spread footings and foundation walls. The exterior walls are framed with structural metals studs, stud cavity wall insulation, and clad with a stone aggregate panel. The interior is finished with drywall throughout this area. The original aroof was a low-sloped roof system, 4-ply asphalt according to the existing drawings. Since that time, new gable trusses were added along with an exposed fastener roof panel and wall siding. The area of the administration and living quarters is 4,620 square feet. Total gross square feet of the building is 13,020 square feet.

3.2 Floor Plan



3.3 Code Analysis

2014 Indiana Building Code (2012 IBC):

- The 2012 International Building Code would require three occupancy classifications for this facility (S-2 Parking garage, B-Business, and R-2 residential group). The Indiana amendments, classify police and fire stations as a business occupancy. This eliminates separation and mixed-use requirements between the occupancies. However, separation may be desirable to manage noise and contaminants.
- The existing building does not have an automatic fire suppression system. It is not required since the facility complies with the allowable area requirements.

- For the allowable area calculation, the least restrictive construction type has been utilized.
- Construction Type: Type V-B (combustible and non-rated).
- Allowable Area Calculation:

Tabular Area: 9,000 SF (Table 503)
 Frontage Increase: 5,490 SF (Section 506.2)
 Sprinkler Increase: 0 SF (Section 506.3)

Total Allowable Area: 14,490 SF
 Actual Building Area: 13,020 SF

- Fire Rating Requirements
 - o Fire Walls: None required.
 - o Fire Barriers: None required.
 - Fire Partitions: A one-hour rated fire partitions and 20-minute rated openings area required in exit corridors where the occupant load exceeds 30.
 - O Due to proximity of the building to the police station, the separation distance when using an imaginary property line, is less than 10 feet. A fire partition, for the west exterior wall, adjacent to the Police station is required to be one-hour rated. Openings are limited to 10 percent of allowable area of the west exterior wall.

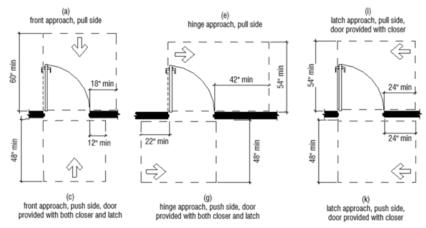
Occupancy and Egress

- The quantity of exits in the facility meets the code requirements for occupancy. There are no spaces requiring two exits and doors with panic hardware in accordance with the existing space table under IBC Section 1021.
- Travel distance and common path of travel requirements are met for the facility per IBC Sections 1014.3 and 1016.2.

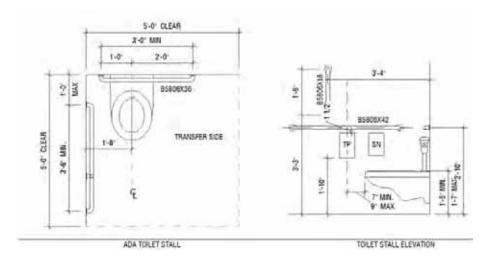
3.4 Accessibility

- In accordance with the Indiana Building Code 2014, which complies with the 2009 version of ANSI A117.1, the facility should comply with the applicable portions of the Code.
- Due to a state regulation, that fire service personnel are required to be ambulatory, it is common to seek a variance for sleeping areas and areas accessed only by the fire personnel to be exempted from the accessibility requirements. This would be mostly utilized for second floor spaces to eliminate the need for an elevator.
- This facility lacks compliance with accessibility requirements throughout the facility. The details are noted further in the facility assessment report. Several examples include:

- o The building entrance does not comply with the accessibility code. The door widths in the public areas would need to be 3-0" wide in all locations to allow for 32" clearance along with the door approaches.
- Door approaches throughout the facility do not comply with current ADA standards. Refer to ADA Door diagram for allowable approaches and layouts.



- O The primary circulation hallway connecting the public and private spaces is 4'-0" wide and does not allow for a proper turning radius or door approaches.
- In general, restrooms and shower have multiple non-compliant features. If the building is updated, the modifications should be made to provide compliant facilities.
- Restroom facilities would need to be upgraded to meet current standards. This would include updates to door width, fixtures, appropriate clearances, and accessories. Refer to ADA Toilet diagram below for layout requirements.



3.5 Existing Space Program

Space	Net Sq. Ft.	OL Factor	Occ. Load
Communication Room	126	100	2
Mechanical	126	300	1
Office 1	132	100	2
Office 2	132	100	2
Office 3	136	100	2
Office 4	150	100	2
Dining & Meeting Room	694	15	47
Kitchen	304	200	2
Day Room	549	15	37
Dormitory	549	50	11
Men's Toilet / Shower	233		NA
Conference Room	263	15	18
Locker Room	220		NA
Janitor's Closet	28	300	1
Women's Locker Room	99		NA
Women's RR	49		NA
Public Toilet	52		NA
Apparatus Room	8,400	500	17
Total Building (Gross Sq. Ft.)	13,020		144

4. HVAC System Summary

The administration and living quarters are currently served by two gas fired DX split-system residential-type furnaces. The furnaces are in the mechanical room and the condensing unit is ground mounted next to the exterior of the north wall of the building. The living area is treated as a single zone with the sole thermostat located in a corridor at the center of the building. The furnaces are equipped with wicking type humidifiers. The furnaces are in good condition and do not require replacement soon.

Insulated refrigerant lines run from the condensing unit to the furnace coils in the mechanical room. The condensing unit was installed in 2001 replacing the original equipment, greatly exceeding its 15-year life cycle. This unit is in marginal condition and replacement soon is recommended.

The ductwork and diffusers are original to the 1981 building. Sheet metal ductwork is used to feed the main branches of the system and flex ducts supply to the different rooms. Ductwork located at the return inlet and near the air filter of the furnaces show corrosion, typical as the material ages. Additionally, due to its age, leaks are typical to occur causing a loss in heating, cooling, and efficiency capabilities. The ductwork is in fair condition and remedial work is recommended. Similarly, the diffusers have exceeded their expected lifespan of 25 years and their condition varies from fair to marginal throughout units. Replacement in the near future is recommended.

The fire station bay is currently served by six gas fired unit heaters. These units show minimal signs of wear, most likely being a 2014 replacement for the original 1981 equipment. All six-unit heaters are in great condition and no replacement is needed in the near future.

Recirculation and exhaust in the fire station bay is provided by three ceiling fans and two exhaust extractors systems, respectively. The three ceiling fans installed in 2011 are approaching the end of their life span, however, visually they appear to be in good condition and do not require immediate replacement, although minor maintenance is recommended to conserve their condition. The two exhaust extractor systems have flexible snorkels at each bay mounted on rails to extract vehicle fumes through the extractor fans located on the outside of the north wall. The exhaust units were installed in 2011 and are a replacement for the original existing exhaust fans. These units are in good condition and no replacement is needed in the near future. A method of bringing fresh air to achieve the ventilation minimum during the winter is recommended.

5. Plumbing System Summary

The domestic plumbing system is connected to a municipal water supply. Hot and cold-water piping is copper and sanitary piping is iron. Copper piping will typically last 70 to 80 years. The iron pipe that has been installed in the concrete slab typically has a life span of about 80 years. The precast concrete mud / sand separator located on the north side engine has reached its end of life and will need to be replaced. The garage also contains 3 trench drains that appear to be in good condition. The grates on the drain have peeled paint and light surface rust but does not impact its ability to function. The floor drains located in the restrooms are Zurn with a bronze finish that connects to the iron sanitary pipe below the concrete slab. The drains and faceplates appear to be in good condition and have an average lifespan of about 20 years. On the exterior of the garage are a few, freeze-resistant hose bibs. The hose bibs face plate has faded due to outside exposure. The average lifespan of these are 20 years and should be considered for replacement.

The building contains two toilet fixture types and one urinal type. The public toilet is an ADA compliant floor mounted toilet using a manual flush valve. The other three toilets are floor mounted tank types. Each toilet has some surface stains, but it does not impact the functions of the toilets. The urinal in the men's restroom uses a manual flush valve and contains some surface stains. The cold-water pipe connecting to the urinal is not secured properly and the pipe is able to move. It potentially can cause a leak. It is recommended that the pipes be secured.

The lavatories in the building are all manual fixtures with some surface stains that does not impact its functionality. The sink in the breakroom has minimal staining and is in good condition. It contains a garbage disposal under the sink that appears to be in good condition. The sink does not get any hot water. The laundry room contains a plastic utility sink. The sink is in good condition but has surface stains. The building also contains two showers. Both showers appear to be in good condition, and both use Delta faucets that also appear to be in good condition. The average life expectancy for both the shower and the faucets are 10 years.

The domestic water heater for the building is in the mechanical room. The water heater is currently 13 years old and is approaching its end of life. The air compressor for the garage is also located in the mechanical room. The compressor is currently 35 years old and is approaching the equipment's end of life and should be replaced. Outside of the Mechanical room is the commercial washer. The washing machine appears to be in good condition and

the average life span of this equipment is typically 10 years. In the laundry room is a residential clothes washer and dryer. Both machines appear to be in good condition with minimal scratches and stains that do not impact its performance. Current installation date is unknown, but the average lifespan is 10 years for the pair. In the break room, there is a residential style dishwasher that appears to be in good condition and the typical lifespan of the equipment is 10 years. In the garage, there is an ice machine that appears to be in good condition. The average lifespan for ice machines is about 10 years from the install date. There are two water coolers located on the interior of the building. They both appear to be in good condition. The average lifespan is 10 years and should be replaced as needed.

6. Electrical System Summary

The electrical system is a 120/208V, 3-phase 200A power system – main Panelboard A. Two additional panelboards 'B' & 'C' that are fed from panel 'A'. Panel 'B' is a 60A & Panel 'C' is a 100A. Over the years as equipment and connections have been made, most of the available spare breakers and spaces have been used up. There are very few spare breakers available for expansion. The electrical equipment appears to be the original when the facility was constricted and looks to be in fair working condition.

The building has a gas-fired 60kW emergency generator that was replaced roughly 12 years ago with one transfer switch. The transfer switch is connected to Panel 'A' serving all power and lighting in the facility. The generator appears to be in good working condition.

Lighting system for the interior are old T-12 fluorescent tube and incandescent fixtures. The T-12 fluorescent tubes are being phased out but still can be found. The exterior pole mounted lighting fixtures have been replaced with LED type fixtures and appear to be in good working condition.

The building does not have a central fire alarm system. The facility has local residential-grade smoke detectors throughout.

Station Alerting System is located within the Meeting Room closet. The Station Alerting System is tied to mixer & amplifier to control audible information to the speakers throughout the facility. Miscellaneous A/V equipment is also located in this closet for Meeting Room.

The existing telecom equipment is in the Mechanical & Electrical room adjacent to the Garage. The telecom equipment consists of 110 termination blocks and appear to be original when facility was constructed. Access Control head end equipment also resides in this electrical equipment room.

7. Facility Condition Report

The report is organized by building systems and aligns with the FTA (Federal Transit Authority) guidelines for facility assessments. The systems and designations are outlined below:

- A Substructure
- B Superstructure
- C Interiors
- D Vertical and Conveyance Systems (not applicable)
- E Plumbing Systems
- F HVAC
- G Fire Protection (not applicable)
- H Electrical
- I Equipment
- J Site
- K Fire and Life Safety
- L Accessibility
- M Contamination Control (specific to fire stations)

There are additional sub systems within each category which are identified in the reports. Each system and subsystem are rated with a grade of A-F. This grade corresponds to the capital improvement cost for each system in the report. The grading system is outlined below:

- A (Excellent) No visible defects, new or near new condition. May still be under warranty of applicable. Capital improvement cost would be classified under the 15–20-year duration.
- B (Good) No longer new, may have some slightly defective or deteriorated component(s), but is overall functional. Capital improvement cost would be classified under the 10–15-year duration.
- C (Adequate) Moderately deteriorated or defective component(s); system has not exceeded useful like. Capital improvement cost would be classified under the 5-10-year duration.
- D (Marginal) Defective or deteriorated component(s) in need of replacement or updating; exceed useful life or no longer meet current standards (system, energy, code, life safety, ADA). Capital improvement cost would be classified under the 3-5 year duration.
- E (Poor) Critically damaged components or in need of immediate repair or replacement; well past useful life. Capital improvement cost classified under the 0-2 year duration.

4	SUBSTRUCTURE						CAPIT	AL IME	ROVE	CAPITAL IMPROVEMENT COST	OST			
S O	Description	Qty.	Units	Rating	Rating Observations / Recommendations	Photo (Refer to assessment)	0-3 yr	,r	3-5 yr	5-10 yr		10-15 yr	15-20 yr	yr (
(GARAGE)	AGE)													
A.01	Spread (column) footings	20	EA				\$	\$ -		- \$	❖	٠	\$	
A.02	Wall footings	380	LF				\$	\$ -	٠	· \$	❖		\$	
A.03	Column Connections / Pedestals	0	EA	C	 Moderate corrosion on column, baseplate, and anchors Breakout cracking/delamination observed at one column location 	Page 32	\$	\$·		\$ 5,000	\$ 00		\$ 5,	5,000
A.04	Perimeter foundation wall	380	T.	В	- Thin cracking observed, no displacement or spalling along cracks	Page 32	❖	٠		\$	-\$-		ş	,
A.05	Interior Concrete SOG	8400	SF	В	- Thin cracking observed, no displacement or spalling along cracks		\$	٠		\$	-γ-	,	\$	
A.06	Trench Drains	150	7	В	 Trench drains appear to be replaced since original building construction Trench grating and surrounding concrete in good condition Low spots adacent to trench drains are creating puddles on slab surface 	Pages 32, 33	↔	⋄			-	,	٠,	1
A.07	Exterior SOG / Garage Apron	2400	SF	В	- Thin cracking observed, no displacement or spalling along crack	Page 33	φ.	٠,	,	. ❖	₩.		₩	,
A.08	Wall Panels / Connections	0	LF	С	- Moderate corrosion along base of wall panels	Page 33	❖	٠ -		\$ 2,000	\$ 00		\$ 2,	2,000
A.09	Bollards and Crash Barrier	28	EA	C	 Light corrosion on crash barrier posts Heavy Corrosion on door jamb bollards - observed under PVC cover 	Page 34	↔	٠		\$ 41,000	\$ 00	•	₩	
(LIVIN	(LIVING QUARTERS)													
A.11	Spread (column) footings	9	EA				❖	\$ -	٠	\$	\$		\$	
A.12	Wall footings	202	LF				❖	\$ -	٠	\$	\$		\$	
A.13	Column Connections / Pedestals	9	EA	-	•		\$	\$ -	•	- \$	\$		\$	
A.14	Perimeter foundation wall	202	LF	-			\$	\$ -	-	\$	\$	-	\$	-
A.15	Interior Concrete SOG	4620	SF	-			\$	\$ -	-	- \$	\$	-	\$	
A.16	Exterior SOG / Man Door Stoops	1056	SF	Э	 Cracking observed, slight displacement at cracks - Slab replacement is not a critical structural integrity item and is more a function of building owner discretion for mitigating trip hazard. 		٠,	\$	•	\$ 7,500	\$ 00	1	\$	1
A.17	Wall Panels / Connections	202	ΙĿ				\$	\$ -	-	- \$	\$	-	\$	
(OTHERS)	ERS)													
A.21	Antenna Tower Foundation	1	EA	А	- No cracking, spalling, or evidence of anchor breakout observed	Page 34	\$	\$ -	•	\$	\$,	\$	
						A-Substructure Total	\$	٠ -		\$ 55,500	\$ 00		\$ 7,	7,000
Cond.	Cond. Description	Condition Description	escripti	nc										

Cond.	Cond. Description	Condition Description
Rating		
V	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	Good	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
C	Adequate	Moderately deteriorated or defective component(s), system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
F	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

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9	CHELL CLIBEDSTELL						FABIT	2	SOD HABBONEMENT COS.	NAFR	7 COC	F			
S O N	Description	Qty.	Units	Rating	Units Rating Observations / Recommendations	Photo (refer to assessment)	0-3 yr	/r	3-5 yr	É	5-10 yr	10-15 yr	5 yr	15-20 yr	ž
(GARAGE)	AGE)									ļ.			1		
B.0.01	1 Rigid Frame - Column	10	EA	В		Page 35	\$	\$		φ.		φ.		\$	
B.0.02	2 Rigid Frame - Beam	2	EA	В	- No deformation, sagging, or corrosion observed - No missing fasteners observed	Page 35	\$	\$ -	10	\$		\$	-	\$	
B.0.03	3 Side wall columns	10	EA				ş	٠ -	10	↔		\$		\$	
B.0.04	4 Roof Purlin	96	EA	В	- No deformation, sagging, or corrosion observed		\$	\$ -	-	\$	-	\$	-	\$	
B.0.05	5 Roof X-bracing steel rods	24	EA	4	- No deformation, sagging, or corrosion observed		\$	\$ -	-	\$		\$		\$	
B.0.06	6 Roof Deck	0006	SF	В	- No deformation or corrosion observed on topside of deck		\$	\$ -	-	\$	-	\$	-	\$	
B.0.07	7 Wall Girt	968	LF				\$	\$ -	-	\$	-	\$	-	\$	
B.0.08	E-W Lateral system - Rigid frames running btwn CL 2 and 3	2	EA	В	- No deformation, sagging, or corrosion observed - No missing fasteners observed		\$	\$ -		\$	•	\$		\$	
					- Corrosion at base of supports posts - Multiple support posts not anchored to floor slab - Centereast support post not vertically oriented - Mezzanine										
B.0.09	9 Self-supporting Storage Mezzanine Kit	,	FA	C	load rating not posted - Clean and paint bottom portion of support posts -		ď	٠,	,	ď	2.000	÷	,	•	
		1	5)	Straighten centereast support post prior ot reanchoring - Post storage load limit established by storage mezzanine kit manufacturer		`	<u> </u>		`	5	>		`	
(LIVIN	LIVING QUARTERS)														
B.0.11	1 Columns	9	EA	В	- No deformation, sagging, or corrosion observed - No missing fasteners observed		\$	\$ -	1	❖		φ.	-	\$	
B.0.12	2 Slope-Beam Girder	2	EA	В	- No deformation, sagging, or corrosion observed - No missing fasteners observed		\$	\$ -		⋄		\$		\$	
B.0.13	3 Eave Strut Beam	4	EA	В	 No deformation, sagging, or corrosion observed No missing fasteners observed 		❖	٠,	1	\$		⊹		<.	
B.0.14	4 Bar Joists	30	EA	В	- No significant deformations or corrosion observed - Attachment of interior parition 2x bracing may or may not have been		❖	\$ -	1	\$		φ.		•	
			!		engineered							,			
B.0.15		707	5	В	- No deformation or corrosion observed at tops of studs		χ. ·	٠ ٠		φ.		ς.	,		,
B.0.16		2000	SF	В			٠ د	٠ -				ᡐ	ı	s.	
B.0.17	7 Vertical Façade Structure 7 (Only Front Façade remains)	99	F	В	- No deformation, sagging, or corrosion observed from exterior		\$	- \$	1	\$		ب		\$	
B.0.18		2000	SF				\$	\$ -	-	\$		\$	-	\$	
B.0.19	Roof Deck (new decking set on gabled roof overbuild)	2000	SF	В	- No deformation or corrosion observed on topside of deck		\$	- \$,	\$		\$		\$	
(OTHERS)	ERS)												-		
B.0.21	11 and conduits)	1	EA	۵	 Peeling paint finish - Minimimal surface corrosion No missing fasteners observered - No deformations in steel observed - Clean and paint antenna tower structure 		\$	٠,	\$ 15,000	\$		₩		\$.	
						B.0 Shell-Superstructure Total	↔	\$ -	15,000	\$	2,000	❖		\$.	

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B.1	SHELL - ROOFING						CAPITA	L IMPR	OVEM	CAPITAL IMPROVEMENT COST	ļ.		
Š.	Description	Qty.	Units	Rating	Units Rating Observations / Recommendations	Photos	0-3 yr		3-5 yr	5-10 yr	10-15 yr		15-20 yr
B.1.(B.1.01 Exposed Fastener Standing Seam Roof System	13,020 SF	SF	U	Exposed fastener roof systems required maintenance and sealing of roof fasteners and joints. It is recommended to perform an inspection on an annual basis and correct any issues noted. \$1.50/sf for sealant, \$0.50/sf for fastener repairs.		۰,	⋄	,	\$ 39,060	•	- ₹	90'68 \$
B.1.(B.1.02 Gutters and downspouts	18	EA	U	Some downspouts drain to underground stormwater drains. Other downspouts drain onto the surface concrete near the structure's foundation. To ensure the structure's integrity, it is suggested that all downspouts empty at least 24" away from the base of the building.		•^•	⋄	1	\$ 3,500	•^	· ·	1
B.1.0	B.1.03 Roof Edges	582	LF	U	Eve, fascia, and gutters are in good condition. Reseal gutter seams every 10 years.		. ↔	⋄		\$ 1,500	₩	٠,	1,500
B.1.0	B.1.04 Roof Transitions	1 02	LF	J	Inspect roof transitions annually.		\$	\$,	\$ 1,500	\$	\$	1,500
B.1.07	07 Flashing systems	1 02	-F	C	Inspect roof flashing annually for sealant failure. Sealants should be replaced every 10 years. Sealant replacement is around \$20/ft.	F	- \$	⋄		\$ 1,500	⋄	\$	1,500
						B.1 Shell - Roofing Total	- \$	\$	'	\$ 47,060 \$	\$	٠.	\$ 43,560

Cond.	Cond. Description	Condition Description
Rating		
۷	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	Pood	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
ш	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

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B.2	SHELL - WALLS AND OPENINGS	ENINGS					CAPITA	L IMP	ROVEN	CAPITAL IMPROVEMENT COST	Þ.			
o S		Qty.	Units	Rating	Rating Observations / Recommendations	Photos (refer to assessment)	0-3 yr		3-5 yr	5-10 yr	10-15 yr	5 yr	15-20 yr	ž
B.2.a	Exposed fastener metal wall panels	6,650 SF	SF	O	The metal panels around the apparatus bays are in good condition with no major defect. The metal panels above the offices/sleeping quarters are a different type of metal paneling, also in good condition. Observe sealants and fasteners on an annual basis and correct deficiencies. \$3.00/sf		٠	\$	1	\$ 20,000	-∽	1	\$ 20,000	000
B.2.b	.b Vinyl windows	12	EA	O	Vinyl windows are in adequate condition. No major defects observed. Perimeter sealants should be replaced every 10 years. 432 total If @ $$20/$ If		\$	\$	-	\$ 8,700	\$	-	\$ 8,700	00,
B.2.c	.c Aluminum doors	1	EA	В	No defects, but light wear-and-tear observed.		- \$	φ.		- \$	↔		\$	
B.2.d	.d HM / Steel Doors	9	EA	O	No major rusting or deterioration, moderate wear of painted finishes and sealants observed. Recommend painting every 10 years.	ts	\$	⋄	-	\$ 3,000	⋄	-	\$ 3,0	3,000
B.2.e	e Louvers	6	SF	D	The louvers on the west side of the apparatus bays has degraded considerably. These should be replaced.	Page 36	\$	❖	1,200	\$	❖	,	\$	
B.2.f	.f Overhead doors	10	EA	Α	No defects or damage observed. OH doors in good condition and recently new.		\$	\$		\$	\$		\$	
B.2.g	.g Aggregate stone panels	1,360	SF	O	Stone panels showing wear from age and freeze thawn cycles. No spalling was observed. Sealants are beyond life expectacy and need replacment.		\$	\$	1	\$ 2,500	\$	-	\$ 2,5	2,500
B.2.h	.h Sealants			F	Replace sealants every 10-15 years.		\$ 2,500	\$ 00	-	\$ 2,500	\$	-	\$ 2,5	2,500
								_						
						B.2 Shell - Walls and Openings Total	\$ 2,500	ۍ 0	1,200	\$ 36,700	σ		\$ 36,700	8

Cond. Rating	Description	Condition Description
⋖	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	poog	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
Q	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
ш	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

Town of Lowell - Fire Department EMS

C.0	INTERIORS - PARTITIONS AND DOORS	AND DOOL	RS				CAPITA	L IMPR	OVEM	CAPITAL IMPROVEMENT COST	F		
No.	Description	Qty.	Units	Rating	Rating Observations / Recommendations	Photo (refer to assessment)	0-3 yr	3-2	3-5 yr	5-10 yr	10-15 yr		15-20 yr
C.0.1a	Drywall / painted surfaces	3,227	SF	В	Normal wear for building of this age. Painting appears to be in good condition throughout. Painting will be required in 5-10 years.		- \$	\$		- \$	\$ 7,500	\$ 00	
C.0.1b	Applied wainscot - metal plate	009	SF	А	Material is in good condition and utilized in high traffic areas to provide durability to wall surfaces.		- \$	\$		- \$	\$	\$	
C.0.2a	Wood Doors / wood frames	21	EA	C	The doors seem to be in moderate shape with some wear and tear. The wood trim shows many scratches. Door hardware should be changed to door levers that comply with ADA requirements.		\$	⋄		\$ 12,750	\$	\$,
C.0.2b	C.0.2b Fire Doors	ю	EA	ш	These doors show major wear and tear. The fire door, going into the garage from the mens dorm, has a bent closer that needs to be replaced. The fire rating label have been painted over. A few of the doors are significantly. These openings should be repaired or replaced to comply with rating requirements.	ld Page 36	005'6 \$	\$· 0	1	ν,	. ∿	•	
C.0.2d	Folding Doors	3	EA	В	The doors are in good condition with little wear and tear.		- \$	\$		· \$	- \$	❖	,
C.0.2e	Accordion Doors	1	EA	В	The doors are in good condition with little wear and tear.		- \$	\$		· \$	- \$	❖	,
C.0.3a	Metal toilet partitions	3	EA	В	The metal partitions are painted. There are some signs of wear and tear but they are functional. Repainting may be required in the future.		- \$	\$		- \$	\$ 2,500	\$ 00	
						C.0 Interiors - Partitions and Doors Total	9,500	\$ 0	,	\$ 12,750	\$ 10,000	\$ 00	'

Cond.	Cond. Description	Condition Description
Rating		
A	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	poog	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
ш	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

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C.1	INTERIORS - FINISHES, CASEWORK, ACCESSORIES	ASEWORK	c, ACCE	SSORII	LES .		CAPITA	L IMP	ROVEN	CAPITAL IMPROVEMENT COST	DST			
No.	Description	Qty.	Units	Rating	Observations / Recommendations	Photo (refer to assessment)	0-3 yr	3	3-5 yr	5-10 yr		10-15 yr	15-	15-20 yr
C.1.01	Floor finish													
C1.01a	Carpet Tile	1,911	SF	С	There are moderate signs of wear. Carpet has a useful life of approximately 10 years, less in high traffic areas.		\$	φ.	-	\$ 8,600	\$ 00	•	\$	1
C1.01b	Luxury Vinyl Tile	2,027	SF	A	LVT shows no signs of wear and tear. Looks to be in like new condition.			↔		❖	φ.		⋄	1
C1.01c	Ceramic Tile	126	SF	В	There is a 12" strip of terrazo flooring along the east wall of the communcations room that shows signs of age. The ceramic tile show signs of age but it is in good condition.		٠ •	₩.	1	· •	₩.	1	φ.	1
C1.01d	Concrete	126	SF	В	Concrete floor shows signs of wear but is in good condition.			❖		❖	❖		↔	1
C.1.02	Ceiling finish													
С.1.02а	Acoustic Ceiling Tile	4,064	SF	D	Ceiling tile shows major signs of wear and tear. There are panels that are bowing out. There are panels that are missing and some that show burn marks on them. There are locations where the ceiling is stained. Recommend replacing all of the ceiling tile and grid.	Page 37	\$	ب	16,600	\$	↔	1	\$	1
C.1.03	Wall finish													
C.1.03a	Resilient base	525	L	В	Base shows some slight wear and tear, but it is in good condition and still serviceable.			↔			φ.	,	↔	1
C.1.03b	Wood baseboard	390	5	В	Painted baseboard shows some wear and tear, but is in good condition and still serviceable.			↔			φ.	,	↔	1
C.1.03c	Painted drywall	3,227	SF	D	The painted drywall in the communications room has paint chipped from the walls. The walls in the rest of the spaces appears to have been recently painted.	Page 37	❖	₩	5,000	٠ •	₩.			ı
C.1.03d	Wood chair rail	390	LF.	В	Painted chair rail shows some wear and tear, but is in good condition and still serviceable.		\$	⋄	-	\$	\$	1	\$	1
C.1.03e	Chrome plastic wallcovering	815	SF	Α	Chrome plastic wainscot shows no signes of wear and tear.		\$	\$	-	\$	\$	•	\$	
C.1.03f	Wood paneling	3,231	SF	C	There are two areas of painted wood paneling, divided by a painted wood chair rail. There are locations where the chair rail is missing. The panels, themselves, are in adequate condition.		\$	❖	1	\$ 3,500	\$ 00		⋄	ı
C.1.03g	Mosaic tile	232	SF	В	The tile shows signs of age, but it is in good condition and still serviceable.		\$	₩			φ.	,	↔	ı
C.1.03h	Ceramic Tile	280	SF	В	The ceramic tile is installed as a wainscot in the restroom. It shows some slight wear and tear and is in good condition and still serviceable.		\$	\$	-	\$	\$	ı	\$	1
						-	=							

Facility Condition Assessment Town of Lowell - Fire Department EMS

C.1.03j Vinyl wallcovering C.1.03k RRP wallcovering C.1.04 Casework C.1.04a Wood base cabinetry C.1.04c Wood tall cabinetry C.1.04c Wood tall cabinetry C.1.04d Wood countertop C.1.04d Wood countertop C.1.04e Solid surface countertop C.1.05 Trim and millwork C.1.05 Accessories C.1.06 Metal Lockers C.1.06 Metal Lockers C.1.06 Gas stove C.1.06c Gas stove	34 LF LF SF		The vinyl wall covering, in the restroom, shows major wear and tear. There are	\$	3,500	- \$ (\$	\$ -		~	
8	124 SF 26 LF 34 LF	ш	signs of mold in the seams between panels. Suggest removing and/or replace the vinyl wall covering and damaged drywall areas.	Page 37						v	1
8		A	FRP wallcovering, in the mens shower, shows no signs of wear and tear.	Ψ	,	\$		\$ -		\$	
g 0											
8		В	There is a base cabinet that is missing a drawer cover. The remainder of the cabinets, in the kitchen, shows no wear and tear. Base cabinetry, in the mens restroom, shows minimal signs of defects.	<u>\$</u>	1	\$	\$	\$,	\$	
8		A	Wall cabinets, in the kitchen and laundry rooms, show no wear and tear.	\$	1	\$	₩.	⋄		\$	
<u>a</u>	12 LF	A	Tall cabinets, in the kitchen, shows no wear and tear.	\$,	· \$	\$	٠ -		↔	1
	26 LF	A	Plastic laminate countertop, in the kitchen, shows minimal signs of wear and tear. No visible defects.	\$	10	\$	\$	⊹		ب	
	3 LF	A	Wood countertop, in the kitchen, shows no signs of defects.	\$,	- \$	\$	٠ -		\$	
Trim and millwork Wood door trim Accessories Metal Lockers Microwave Gas stove	6 LF	C	The countertop and backsplash does not cover the total width of the lavatory.	\$	1	\$	\$ 2,5	2,500 \$		\$	
Wood door trim Accessories Metal Lockers Microwave Gas stove											
Accessories Metal Lockers Microwave Gas stove	20 EA	C	Many of the door and opening trims have scratches on them.	\$	-	- \$	\$ 5,5	\$ 005'5		\$	
Metal Lockers Microwave Gas stove											
C.1.06b Microwave C.1.06c Gas stove	30 EA	В	There are 30 tall metal lockers with inserts for padlocks.	\$	-	- \$	- \$	÷ -	•	\$	
	1 EA	A	Microwave is in good condition with no signs of wear and tear	φ	,	\$	❖	\$,	\$	
	1 EA	A	Gas oven / stove is in good condition with no signs of wear and tear	\$,	. ❖		٠ -		↔	
C.1.06d Dishwasher	1 EA	4	Dishwasher is in good condition with no signs of wear and tear	\$	-	\$	\$	\$ -	'	\$	
								1			
			:: 8	C.1 Interiors - Finishes, Casework, Accessories Total	2,500	\$ 21,600	0 \$ 20,100	\$ 001		\$	

Cond. Rating	Cond. Description Rating	Condition Description
A	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	Good	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
Ш	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

Town of Lowell - Fire Department EM	S
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ш	PLUMBING						CAPITA	≧	PROVEMENT COST	MENT	LSOO.				
No.	Description	Qty.	Units	Rating	Observations / Recommendations	Photos	0-3 yr		3-5 yr	5-1(5-10 yr	10-15 yr	¥	15-20 yr	ı,
E.01	Water Heater	1	EA	F	The water heater is currently 13 years old and is approaching it's end of life and should be replaced		\$ 4,000	\$ 00	,	\$	-	\$		❖	
E.02	Air Compressor	1	EA	ď	The compressor is currently 35 years old and is approaching the equipment's end of life and should be replaced.	0)	\$ 11,000	\$ 00		\$		\$	-	\$	
E.03	Washing Machine - Laundry Rm	1	EA	8	Both machines appear to be in good condition with minimal scratches and stains that		\$	\$		φ.		\$ 20,	20,000	- ♦	
E.04	Clothes Dryer	1	EA	В	do not impact its performance		\$	\$		\$		\$ 2,	2,000	\$	-
E.05	Washing Machine - Garage	1	EA	8	The washing machine appears to be in good condition and the average life span of this equipment is typically 10 years		\$	\$		\$	-	\$ 2,	2,000	\$	
E.06	Water Cooler	2	EA	В	There are two water coolers located on the interior of the building. They both appear to be in good condition. The average lifespan is 10 years and should be replaced as needed.		\$	\$	1	\$	-	\$ 1,1	1,500	\$	1
E.07	Ice Machine - Garage	1	EA	8	There is an ice machine that appears to be in good condition. The average lifespan for ice machines is about 10 years from the install date.		\$	\$	•	\$	-	\$ 3,	3,500	\$	
E.08	Hand sink - Break Rm	1	EA	В	The sink in the breakroom has minimal staining and is in good condition. It contains a garbage disposal under the sink that appears to be in good condition. The sink does not get any hot water.		\$	⋄	1	❖	1	\$ 2,	2,500	⋄	1
E.09	Lavatories	3	EA	В	Manual fixtures with some surface stains that does not impact its functionality. The sink in the breakroom has minimal staining and is in good condition		\$	⋄	•	⋄	-	\$ 1,8	1,800		
E.10	Water Closets	4	EA	В	Each toilet has some surface stains, but it does not impact the functions of the toilets.		\$	\$	•	\$		\$ 7,	2,000	\$	
E.11	Urinal	1	EA	O	The urinal in the men's restroom uses a manual flush valve and contains some surface stains. The cold-water pipe connecting to the urinal is not secured properly and the pipe is able to move. It potentially can cause a leak		ν,	₩		٠	700	\$		٠	1
E.12	Mop sink	П	EA	В	The sink is in good condition but has surface stains.			φ.		❖		•	200	\$	
E.13	Trench Drain	3	EA	В	The garage also contains 3 trench drains that appear to be in good condition. The grates on the drain have peeled paint and light surface rust but does not impact its ability to function		\$	⋄	1	\$	1	, ę	006'6	\$	1
E.14	Showers	2	EA	В	Both showers appear to be in good condition, and both use Delta faucets that also appear to be in good condition		\$	\$	•	\$		\$ 4,	4,000	\$	
E.15	Floor Drains	8	EA	٧	The drains and faceplates appear to be in good condition and have an average lifespan of about 20 years		\$	\$	•	\$		\$	-	\$ 6,	6,000
E.16	Mud Intercepter	1	EA	O	The precast concrete mud / sand separator located on the north side engine has reached its end of life and will need to be replaced		\$	\$	20,000	\$		\$	-	\$-	
E.17	Hose Bibs	∞	EA	Q	The hose bibs face plate has faded due to outside exposure. The average lifespan of these are 20 years and should be considered for replacement.		\$	❖	6,400	❖		\$,	\$	
E.18	Dishwasher	н	EA	В	Residential style dishwasher that appears to be in good condition and the typical lifespan of the equipment is 10 years		٠ •	- Φ		•		\$ 2,	2,000	↔	

Е	PLUMBING (continued)						CAPITAL	CAPITAL IMPROVEMENT COST	/EMEN	т соѕт			
No.	Description	Qty.	Units	Rating	Qty. Units Rating Observations / Recommendations	Photos	0-3 yr	0-3 yr 3-5 yr 5-10 yr 10-15 yr 15-20 yr		10 yr	10-15 yr	15-	20 yr
E.19	Domestic Piping	200	500 EA	Α Α	Hot and cold-water piping is copper and sanitary piping is iron. Copper piping will		- \$	- \$	\$		· \$	\$	
E.20	Sanitary Piping	300	300 EA	4	typically last. Yo to 80 years until they need to be replaced. The Iron pipe that has been A installed in the concrete slab typically has a life span of about 80 years.		- \$	· •	ş		- - - -	\$	
E.21	Recirc Pump	1	EA	D	Recommended upgrades to existing system - Bell & Gosett		- \$	\$ 3,500 \$ -	\$ 00		- \$	\$	
						E Plumbing Total	\$ 15,000	\$ 15,000 \$ 29,900 \$ 700 \$ 56,900 \$ 6,000	\$ 00	700	\$ 56,90	ş	6.000

Town of Lowell - Fire Department EMS

Cond. Rating	Cond. Description Rating	Condition Description
۷	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	Good	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
C	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
Ь	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

Facility Condition Assessment Town of Lowell - Fire Department EMS

ш	HVAC						CAPITAL	IMPROV		EMENT COST			
No.	Description	Qty.	Units	Rating	Observations / Recommendations	Photos	0-3 yr	3-5 yr		5-10 yr	10-15 yr	15-20 yr	0 yr
F.01	Furnace	2	EA	A	The furnaces are in good condition and do not require replacement in the near future. Provide yearly maintenance.		\$ 1,000	\$	1,000 \$	1,000	\$ 1,000	❖	4,820
F.02	Ductwork	4,600	SF	U	The ductwork is in adequate condition and remedial work is recommended		, \$	↔	.	9,200	- \$	Ş	
F.03	Diffusers	15	EA	Q	Diffusers have exceeded their expected lifespan of 25 years and their condition varies from fair to marginal throughout units. Replacement in the near future is recommended.		∙∽)'9 \$	6,015 \$	1	· •	⋄	1
F.04	Unit Heaters	9	EA	⋖	All six unit heaters are in great condition and no replacement is needed in the near future.		٠ •	₩.	٠.		٠	\$ 27	27,600
F.05	Ceiling Fans	м	EA	U	The three ceiling fans installed in 2011 are approaching the end of their life span, however, visually they appear to be in good condition and do not require immediate replacement, although minor maintenance is recommended to conserve their condition.		٠ •	∽	· ·	5,400	· • • • • • • • • • • • • • • • • • • •	₩.	1
F.06	Exhaust Extractors	2	EA	4	These units are in good condition and no replacement is needed in the near future.		· \$	₩.	\$	-	· •	\$ 40	40,000
F.07	Air Conditioning	4,600	SF	ш	The condensing unit has exceeded its life span being prone to cease to function at any moment. A replacement of the air conditioner which includes a new condensing (10 Ton Air-cooled) unit and refrigerant lines is recommended.		\$ 12,650	-∽	❖	1	\$	⋄	1
						F HVAC Total	\$ 13,650	φ.	7,015 \$	15,600	\$ 1,000	s	72,420
							ı	ı	ı	ı	ı	ı	
Cond. Rating	Description	Condition Description	escripti	uo									
⋖	Excellent	No visible de	fects, n	ew or ne	No visible defects, new or near new condition. May still be under warranty if applicable.								
В	Good	Good condit	ion, but	no longe	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional	nctional.							
U	Adequate	Moderately	deterio	ated or c	Moderately deteriorated or defective component(s); system has not exceed useful life.								
Q	Marginal	Defective or	deterio	rated cor	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).	urrent standards (system, ene	ergy, code, li	fe safety,	ADA sta	andards).			
ш	Poor	Critically dar	naged c	ompone	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.								

Facility Condition Assessment

Town of Lowell - Fire Department EMS

=	ELECTRICAL						CAPIT	AL IME	PROVEN	CAPITAL IMPROVEMENT COST	LS		
No.	Description	Qty.	Units	Rating	Rating Observations / Recommendations	Photos	0-3 yr	_	3-5 yr	5-10 yr	10-15 yr	5 yr	15-20 yr
H.01	Electrical Service	1	EA	C	Panel appears to be in fair condition but is original when building was constructed.		۰	∙	1	\$ 3,000	\$.	
Н.02	Electrical distributions	2	EA	O	Panel appears to be in fair condition but is original when building was constructed.		ν		1	\$ 3,500	\$	٠	1
н.03	Lighting - Interior	13,000	SF	U	Lighting fixtures are in fair working contition but are older T-12 fluorescent style.		·γ	\$ ·		\$ 98,410	\$	'	- \$
H.04	Lighting- Exterior		LUMP	В	Exterior lighting appears to be upgraded to LED.		s	\$ -	-	\$	\$ 2	\$ 008'02	
Н.05	Branch wire and raceway	13,000	SF	В	Electrical equipment appears to be the original when the facility was constructed and is in fair working condition.		₩	⋄	1	· •	φ.	33,400 \$	
90.Н	Communications / Data	13	1000 SF	В	Telecom equipmnet consists of 110 termination blocks and appear to be original when the facility was constructed.		❖	\$		\$	\$	15,470 \$	-
н.07	Generators	1	EA	٧	Gas fired 60KW emergency generator that was replaced 12 years ago with one transfer switch. The generator appears to be in good working condition.		\$	\$	•	\$	\$-	\$	000'68
H.08	Door access control	1	EA	٧	Door access control is 8 years old and appears to be in good condition.		s	\$ -		\$	\$	· ·	000′9
н.09	Dispatch Alert System	1	EA	В	The Station Alerting System is tied to mixer & amplifier to contorl audible information to the speakers throughout the facility.	د	\$	\$	-	\$	\$ 1	\$ 270,01	-
н.10	Electrical Service	1	EA	D	Recommended upgrades to existing system - 400A service		<.	↔	16,380	\$	\$	\$	1
						H Electrical Total	φ.	⋄	16,380	\$ 16,380 \$ 104,910		\$ 79,245 \$	\$ 45,000

Cond.	Description	Condition Description
Rating		
A	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	poog	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
F	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

_	EQUIPMENT						CAPITAL IMPROVEMENT COST	. IMPRC	VEMEN	IT COST	L		
No.	Description	Qty.	Units	Rating	Rating Observations / Recommendations	Photos	0-3 yr	3-5 yr		5-10 yr	10-15 yr		15-20 yr
1.01	6 Step Rolling Safety Ladder	1	No.	В	Good condition. Not an opmital place to be kept, suggested to be stored in another location.		- \$	\$	\$ -		- \$	\$	
1.02	Washer / Extractor	1	No.	В	Alliance Laundry Systems 200-240 V 50-60Hz 47.2" high x 30.6" wide		- - -	"	٠	1	\$	❖	
1.03	Gear Dryer	1	No.	В	Alliance Laundry Systems 200 V		· \$	ب	\$	-	\$	\$	1
90'1	Oxygen Tank Filler	2	No.	В	Stationary Containment Fill Stations (SCFS). Minor wear and tear.								
1.07	SCBA cleaner			NA			· \$	\$	\$ -		· \$	÷	
						l Equipment Total	• \$	\$	\$		- \$	\$	•

Cond.	Cond. Description	Condition Description	
Rating			
A	Excellent	No visible defects, new or ne.	No visible defects, new or near new condition. May still be under warranty if applicable.
В	рооб	Good condition, but no longe	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or c	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated cor	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
F	Poor	Critically damaged componer	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

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	SITE						CAPITAL	. IMPR	OVEM	CAPITAL IMPROVEMENT COST	ST			
No.	Description	Qty.	Units		Rating Observations / Recommendations	Photos	0-3 yr	3-6	3-5 yr	5-10 yr		10-15 yr	15-20 yr	yr
1.01	Roadways / driveways		SF	C	The condition of the roadways and driveways is adequate. Heavy stripping repair throughout. The roadways had no major drainage issues. The lot seemed even and level with no major depressions.		\$	⋄	1	\$ 25,000	\$		\$ 25,000	000
J.03	Parking and signage	61	EA	F	Fire trucks enter from and exit onto E Commerical Ave. Fire trucks enter the apparatus bays from the north to park their vechicles. Existing parking spaces on the north side of the site impede with the fire trucks turning radii. The Owner expressed the need for additional parking spaces as well. We strongly suggest a new parking layout for better, clear access for fire trucks and additional parking for cars. (Cost evaluated during needs assessment.)		٠ •	\$		• •	\$		\$	1
1.04	Pedestrian access	•		F	No sidewalk exists connecting the street to the fire station/police station. Firestations are typically open to the public, so a sidewalk connection to the FD and PD is strongly suggested.	C	\$ 7,500	\$ 0		\$	φ.	1	\$	
90°F	Landscaping	4,500	SF	В	Site is well kept. Landscaping seemed adequately maintaned.		- \$	\$		- \$	\$		\$	
J.07	Site drainage / grading			В	No issues reported or observed.		· \$	❖		· \$	ş		\$	
90°F	Sanitary drainage	-		В	No issues reported or observed.		- \$	\$		- \$	\$		· \$	
90.L	Water service	-		В	No issues reported or observed.		- \$	\$		- \$	\$	-	\$	
J.10	Gas Service			В	No issues reported or observed.		- \$	\$		- \$	\$		\$	
							- \$	\$	-	- \$	\$		\$	
							\$	\$	-	- \$	\$		\$	
							· \$	⋄		· \$	٠		\$-	
							- \$	\$	-	- \$	\$		\$	
						J Site Total	\$ 7,500	\$ 0		\$ 25,000	\$ 0		\$ 25,000	000
,							ı	ı	ı	ı	ı	ı	ı	I
Cond. Rating	Description g	Condition Description	escripti	ou										
A	Excellent	No visible d€	efects, r	new or n	No visible defects, new or near new condition. May still be under warranty if applicable.									
В	Pood Pood	Good condit	ion, but	no long	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional	overall functional.								
C	Adequate	Moderately	deterio	rated or	Moderately deteriorated or defective component(s); system has not exceed useful life.									
O	Marginal	Defective or	deteric	rated cc	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards)	er meet current standards (system, e	energy, cod	e, life sa	fety, AD	A standar	ds).			

Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

Facility Condition Assessment

Town of Lowell - Fire Department EMS

¥	FIRE AND LIFE SAFETY (2014 INDIANA BUILDING CODE)	014 IND	ANA B	UILDI	NG CODE)		CAPITAL IMPROVEMENT COST	I IMP	ROVEM	ENT CO	ST			
No.	Description	Qŧģ.	Units	Rating	Rating Observations / Recommendations	Photos	0-3 yr	E .	3-5 yr	5-10 yr		10-15 yr	15-20 yr	ž
K.01	Occupancy Type			٧	B Occupancy		· \$	\$		· \$	\$	-	\$	
K.02	Construction Type			Α	V-B		- \$	\$		- \$	\$	-	\$	_
K.03	Allowable Area			А	14,490 SF		- \$	\$	-	- \$	\$	-	\$,
K.04	Separation Requirements			A	None required		\$	\$	-	- \$	❖	-	\$	
K.05	Fire Resitive Construction	1	EA	۵	The exterior wall adjacent to the Police Station is required to have a one-hour rating since the fire separation distance to the imaginary property line is between 5'-10' (Table 602). Door and windows on the west façade are required to be 45 minute rated.		· •	↔	15,000	- - - -		1	.	
K.06	Fire Protection Requirments			A	There are no fire protection requirements since the facility is a B-Occupancy and is under the allowable area requirements.		\$	↔	ı		⋄	1	· \$	
K.07	Egress - Doors	9	EA	В	B occupancy: 4 exits - Review egress door hardware		· \$	\$		- \$	\$	7,500	· \$	
K.08	Egress - Corridors			∢	44 inches minimum		- ب	❖		· \$	٠		. ↔	
K.09	Occupant Load			٧	S-1 = 42 occupants / B = 130 occupants		· \$	\$		\$	\$		φ.	,
K.10	Exit Access			٧	200 feet		· \$	\$		· \$	\$. ❖	
						K Fire and Life Safety Total	- \$	\$	15,000	- \$	\$	7,500	\$	

Cond. Rating	Description	Condition Description
4	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	Poo9	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
ш	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

_	ACCESSIBILITY						CAPITAL	CAPITAL IMPROVEMENT COST	MENT C	SOST			
No.	Description	Qty.	Units	Rating	Units Rating Observations / Recommendations	Photos	0-3 yr	3-5 yr	5-10 yr		10-15 yr	15	15-20 yr
L.01	Parking Areas	2	EA	В	Access to the ADA parking spaces is adequate.		- \$	- \$	\$	\$ -		\$	
L.02	Building Entry / Access	1		Q	Public entrance from the exterior side is compliant. Interior side of the door does not meet the door approach requirements. Door clearance requirements are show in Section 2 of the report.		ا ب	\$ 6,500	₩	φ.		₩	
L.03	Public Accessible Rooms / Hallway	750	SF	D	Based on current ADA standards, most rooms are noncompliant. Door approaches are not met in most spaces. The cooridor width is only 4'-0" and would need to be modified to accommodate the door approaches and provide a 5'-0" turning radius. Changes should be consider when building modifications or renovaton is required.		ر ب	\$ 93,750	٠.	⋄	,	⋄	1
L.04	Restrooms	330	SF	Q	Based on current ADA standards, these bathrooms are noncompliant.		· \$	\$ 82,500	\$	\$ -	•	ş	
						L Accessibility Total	· \$	\$ 182,750	\$	\$ -	٠	\$	

Cond. Rating Condition Description Condition Description Condition Description A Excellent No visible defects, new or near new condition. May still be under warranty if applicable. B Good Good condition, but no longer new, may have some slightly defective or deteriorated or defective component(s); system has not exceed useful life. Marginal Marginal Defective or deteriorated component(s) in need of replacement or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards). Poor Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.		
In our visible defects, new or near new condition. May Good condition, but no longer new, may have some Moderately deteriorated or defective component(s) nal Defective or deteriorated component(s) in need of Critically damaged component(s) or in need of imm	Cond. Rating	Condition Description
Good condition, but no longer new, may have some late Moderately deteriorated or defective component(s and Defective or deteriorated component(s) in need of Critically damaged component(s) or in need of imm	٧	vo visible defects, new or near new condition. May still be under warranty if applicable.
Moderately deteriorated or defective component(s Defective or deteriorated component(s) in need of Critically damaged component(s) or in need of imm	В	sood condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
Defective or deteriorated component(s) in need of Critically damaged component(s) or in need of imm	U	Moderately deteriorated or defective component(s); system has not exceed useful life.
	Q	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
	ш	critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

Facility Condition Assessment

Town of Lowell - Fire Department EMS

Σ	Contamination Control (NFPA 1585)	(NFPA 158	35)				CAPITAL	CAPITAL IMPROVEMENT COST	MENT (COST		
S O	Description	Qty.	Units		Rating Observations / Recommendations	Photos	0-3 yr	3-5 yr	5-10 yr		10-15 yr	15-20 yr
M.01	Decontamination Area	-		Q	Contamination control is lacking for the facility. It is strongly recommended that the fire		- \$	· \$	\$	\$ -	•	· \$
M.02	Gear Washing	1		D	station adopt new standards and decontamination procedures. These procedures would include a "hot sone" where distributed and and address and extension and		· \$	· •	÷	٠		•
M.03	Gear Drying	,		Q	finduce a not tone where unity gear are removed and placed into a washing area. A transitional zone would allow firefighters to shower and change into clean clothing prior to entering the clean zone where clean gear is stored and dried.		- \$	٠ ٠	⋄	<u>٠</u>	1	\$
M.04	M.04 Gear Storage	45	No.	C	Turnout Gear Lockers are in adequate condition. Perhaps combining all lockers into a single area (rather than in various spots around the appartatus bays) would better oraganize the space.		\$	ر ب	⋄	· ·	1	· •
M.05	Personnel Decon	-		Q	Contamination control is lacking for the facility. It is strongly recommended that the fire		- \$	· \$	\$	\$ -		- \$
M.06	Hot Zone	300	SF	D	station adopt new standards and decontamination procedures. These procedures would		· \$	000'09 \$	÷	\$ -		•
M.07	Transitional Zone	200	SF	D	Include a Tiou Some where unity gear are removed and placed into a washing area. A transitional zone would allow firefighters to shower and change into clean clothing prior to		- \$	\$ 40,000	\$	٠		- \$
M.08	Green Zone	300	SF	D	entering the clean zone where clean gear is stored and dried.		- \$	000'09 \$	\$	÷ -	•	- \$
	FEMA Standards				https://www.usfa.fema.gov/downloads/pdf/publications/design of fire ems stations.pdf							
						M Contamination Control (NFPA 1585) Total	- \$	\$ 160,000	\$	-	•	\$

Cond.	Cond. Description	Condition Description
Rating		
⋖	Excellent	No visible defects, new or near new condition. May still be under warranty if applicable.
В	poog	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional.
U	Adequate	Moderately deteriorated or defective component(s); system has not exceed useful life.
D	Marginal	Defective or deteriorated component(s) in need of replacment or updating; exceeded useful life or no longer meet current standards (system, energy, code, life safety, ADA standards).
L	Poor	Critically damaged component(s) or in need of immediate repair or replacement; well past useful life.

8. Key Facility Recommendations

The list below includes items that have been rated D or F in the report.

- **Item B.2.e Louvers**: The louvers on the west side of the apparatus bays has degraded considerably. These should be replaced.
- **Item C.0.2b Fire Doors**: These doors show major wear and tear. The fire door, going into the garage from the men's dorm, has a bent closer that needs to be replaced. The fire rating label have been painted over. These openings should be repaired or replaced to comply with rating requirements.
- Item C.1.02a Acoustic Ceiling Tile: Ceiling tile shows major signs of wear and tear. There are panels that are bowing out. There are panels that are missing and some that show burn marks on them. There are locations where the ceiling is stained. Recommend replacing all the ceiling tile and grid.
- **Item C.1.03c Painted Drywall**: The painted drywall in the communications room has paint chipped from the walls. The walls in the rest of the spaces appears to have been recently painted.
- Item C.1.03j Vinyl Wall Covering: The vinyl wall covering, in the restroom, shows
 major wear and tear. There are signs of mold in the seams between panels.
 Suggests removing and/or replacing the vinyl wall covering and damaged drywall
 areas.
- **Item E.01 Water Heater**: The water heater is currently 13 years old and is approaching it's end of life and should be replaced.
- **Item E.02 Air Compressor**: The compressor is currently 35 years old and is approaching the equipment's end of life and should be replaced.
- Item E.16 Oil / Sand Interceptor: The precast concrete mud / sand separator located on the north side engine has reached its end of life and will need to be replaced.
- Item E.17 Hose Bibs: The hose bibs face plate has faded due to outside exposure.
 The average lifespan of these are 20 years and should be considered for replacement.
- Item E.21 Recirculation Pump: Recommended upgrades to existing system Bell & Gosett due to age of the existing equipment.
- Item F.07 Air Conditioning: The building's current air conditioning system, specifically the condensing unit has exceeded its life span being prone to cease to function at any moment. A replacement of the air conditioner which includes a new condensing (10 Ton Air-cooled) unit and refrigerant lines is recommended.
- Plumbing System: The building does not currently have a hot water return system installed. This would cause the further fixtures to not get hot water for some time.

- would recommend on adding the return loop to help improve energy efficiency and comfort of the people using the fixtures.
- **Item H.10 Electrical Service**: The building electrical service should be upgraded to a 120/208V 3ph 400A power system if any additions or modifications are needed in the future. This would include a full panelboard replacement of all electrical panelboards within the facility.
- Item J.04 Pedestrian Access: No sidewalk exists connecting the street to the fire station/police station. Fire Stations are typically open to the public, so a sidewalk connection to the FD and PD is strongly suggested.
- Item K.04 Fire Resistive Construction: The exterior wall adjacent to the Police Station is required to have a one-hour rating since the fire separation distance to the imaginary property line is between 5'-10' (Table 602). Door and windows on the west façade are required to be 45 minute rated.

Accessibility:

- Item L.02 Building Entry and Access: Public entrance from the exterior side is compliant. Interior side of the door does not meet the door approach requirements. Door clearance requirements are show in Section 2 of the report.
- o **Item L.03 Public accessible rooms and hallways**: Based on current ADA standards, most rooms are noncompliant. Door approaches are not met in most spaces. The corridor width is only 4'-0" and would need to be modified to accommodate the door approaches and provide a 5'-0" turning radius. Changes should be consider when building modifications or renovation is required.
- Item L.04 Restrooms: Based on current ADA standards, these bathrooms are noncompliant.
- Contamination Control: It is recommended that the facility updates include provisions for proper decontamination control for Fire and EMS facilities. The current standard is outlined by FEMA and found at <u>Safety and Health Considerations for the</u> <u>Design of Fire and Emergency Medical Services Stations (fema.gov)</u>.

9. Cost Implications

No.	System	100	0-3 yr		3-5 yr		5-10 yr	18	10-15 yr	100	15-20 yr
A	SUBSTRUCTURE	\$		\$		\$	55,500	\$		\$	7,000
80	SHELL - SUPERSTRUCTURE	\$	+:	S	15,000	s	2,000	\$		\$	
81	SHELL-ROOFING	\$	- 4	\$	- 2	5	47,060	\$	- 7	5	43,560
82	SHELL-WALLS AND OPENINGS	\$	2,500	s	1,200	s	36,700	\$	-	\$	36,700
со	INTERIORS-PARTITIONS / DOORS	\$	9,500	\$		\$	12,750	\$	10,000	\$	12
C1	INTERIOR FINISHES	s	2,500	s	21,600	s	20,100	\$		\$	
D	VERTICAL CIRCULATION (NA)	\$	-	\$		5		\$		\$	-
E	PLUMBING	s	15,000	s	29,900	ş	700	\$	56,900	s	6,000
F	HVAC	\$	13,650	\$	7,015	\$	15,600	\$	1,000	5	72,420
G	FIRE PROTECTION (NA)	\$		\$		\$	2	\$	-	\$	
н	ELECTRICAL	\$		5	16,380	s	104,910	5	79,245	5	45,000
1	EQUIPMENT	\$	1.0	\$		s		\$		\$	
J	SITE	\$	7,500	\$		5	25,000	\$	140	s	25,000
K	FIRE AND LIFE SAFETY	5	12-	\$	15,000	S	-	5	7,500	5	- 1
L	ACCESSIBILITY	5	- 1	s	182,750	s	- 2	5	- 4	\$	1-
м	CONTAMINATION CONTROL	s	- 1	s	160,000	s	-	s		s	
	Subtotal	\$	50,650	\$	448,845	\$	320,320	\$	154,645	\$	235,680
	Escalation		5.0%		10.0%		20.0%		30.0%		40.09
			\$2,533		\$44,885		\$64,064	1	\$46,394		\$94,272
	Subtotal		\$53,183		\$493,730		\$384,384		\$201,039		\$329,952
	Contingency (10%)	(,	\$5,318		\$49,373		\$38,438		\$20,104		\$32,995
	Subtotal		\$58,501		\$543,102	6	\$422,822		\$221,142		\$362,947
	OH & P (10%)		\$5,850		\$54,310		\$42,282		\$22,114		\$36,295
	Subtotal	000	\$64,351		\$597,413		\$465,105		\$243,257		\$399,242
	General Conditions (5%)		\$3,218		\$29,871		\$23,255		\$12,163		\$19,962
	Total		\$67,568		\$627,283		\$488,360		\$255,419		\$419,204

10. Photos

A - Substructure

A.03 Column Connections / Pedestals





A.04 Perimeter Foundaton Wall









A.06 Trench Drains





A.06 Trench Drains (cont.)



A.07 Exterior SOG / Garage Apron









A.08 Wall Panels / Connections





A.09 Bollards and Crash Barrier







A.21 Antenna Tower Foundation



<u>B0 – Shell-Superstructure</u>

B.01 Rigid Frame – Column





B.02 Rigid Frame – Beam









B2 Shell – Walls & Openings

B.2.e – Louvers



C0 Interiors – Partitions and Doors

C.0.02b – Fire Doors







C1 Interiors - Finishes

C1.02a - Acoustic Ceiling Tile







C.1.03j - Vinyl Wallcovering





11. Appendices

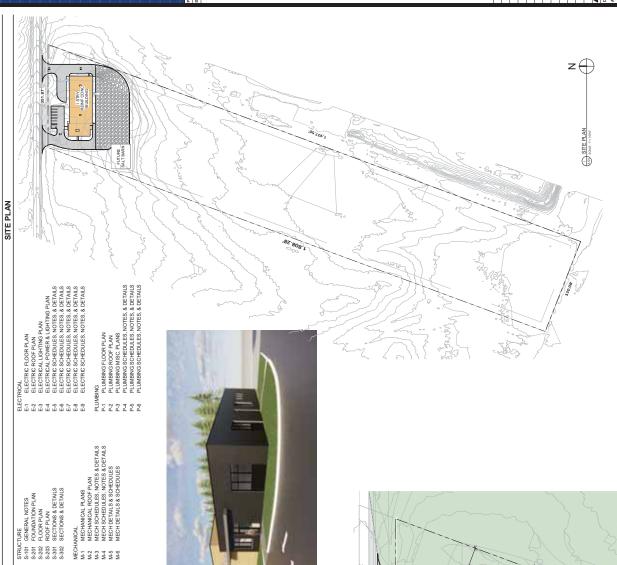
Appendix A: R2 – Residential District Standards

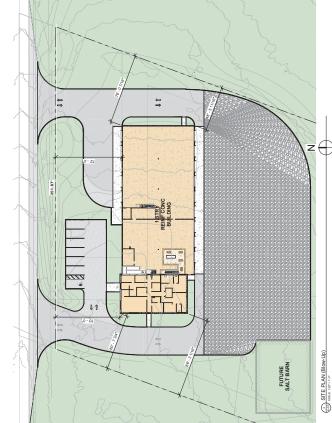
Lot Disposition		
Lot area	>10,800 sq. ft.	
Lot width	80' min.	
Lot coverage	40% max.	
Lot frontage	70% lot width min.	
Building Disposition		
Primary Structure		
	Arterial	50'
Front setback (adjacent to)	Collector	40'
(adjacent to)	Local road	30'
Side setback	8' each side min.	
Side setback	16' total	
Rear setback	30' min.	
Living area	1,350 sq. ft.	
Ground floor area	>40% of living area	
Wells (if applicable)	Installed >50' inside po	roperty line
Connection to sewer and water	If possible, lot area de	pends on sanitary type
Common open space	n/a	
Accessory Structure		
Side setback	5' min.	
Rear setback	15' min.	
Structures	-	
Number of Structures		
Primary	1 max.	
Accessory	2 max.	
Structure Heights		
Primary	2 stories/35' max.	
Accessory	1 story/16' max.	
All agriculture related structures are exemp	ot	
All telecommunications facilities shall confe	orm to the requirements of §§155.07	70 through 155.095
All wind energy conversion systems shall of	conform to the requirement of §§155	i.070 through 155.095
Parking		
Spaces required	2	
Configuration	n/a	
Other Issues		
May use public water, sewer or private wel	l and septic systems	
Applicable Development Standards (§	§ 155.070 - 155.095)	
Lot/yard 155.073	Adult-oriented use 15	55.085
Height 155.074	Telecom facility 155.	086
Accessory 155.075(A),(B)	Mobile/mfg home 150	5.087
Buffer yard 155,076	Public improvement	155.088
Environmental 155.078	Temporary 155.089	
Flood hazard area 155.079	Fence and wall 155.0	190
Parking 155.080	Landscaping 155.09	1
Entrance/drive 155.082	Outdoor lighting 155.	093
Sight visibility 155,083	Streetscape 155.094	
Home occupation 155.084	Wind energy 155.095	5

APPENDIX F

LOWELL PUBLIC WORKS MAINTENANCE FACILITY DRAFT PLANS







DIRECTORY

ARCHITECT
NERI ARCHITECTS
6400 IN NORTHWEST HWY. SUITE 4
PLAT 222.3400
LUCENSE #1001-129.41
LUCENSE #1001-129.41

CODE SUMMARY

PROJECT DATA

APPLICABLE CODES: SCOPE OF WORK:

ARCHITECTURAL A-0.0 SITE PLAN & PROJECT INFO

SHEET INDEX

SITE DIMENSION PLAN SITE GRADING PLAN SITE LIGHTING PLAN

ARCHITECTURAL
A-10 GRENEAL MOTES
A-20 FLOOR PLANIS
A-21 FLOOR PLANIS
A-22 RELECTED CLOS - OFFICES
A-24 ROOF PLAN
A-30 INTERIOR ELENTRONS
A-31 INTERIOR ELENTRONS
A-32 INTERIOR ELENTRONS
A-34 INTERIOR ELENTRONS
A-40 ELENTRONS
A-40 DOOR / WINDOWS SCHOLAE
A-60 BUILDING SECTIONS

2014 Indiana Building Oode based cm: 2012

2014 Indiana Building Oode based cm: 2012

214 Indiana Building Oode (15 primiting), with Indiana

214 Indiana Supplementary Fire Safety Rues

210 Indiana Supplementary Fire Safety Rues

210 Indiana Supplementary Fire Safety Rues

210 Indiana Burgot Cose wurth Indiana Amendmentary

Indiana Plumping Oode (15 LG, 16), Desed On:

1927 Variorin Plumping Code (15 LG, 16), Desed On:

1927 Variorin Plumping Code (15 LG, 16), Desed On:

2014 Indiana Rued Code (15 Rue), Desed On:

2014 Indiana Rued Code (15 Rue), Desed On:

2012 Indiana Rued Code (15 Rue), Desed On:

2012 Indiana Rued Code (15 Rue), Desed

2013 Indiana Rued Code (15 Rue), Desed

2014 Indiana Rued Code (15 Rue), Desed

2015 Indiana Rued Code (15 Rue), Desed

2016 Indiana Rued Code (15 Rue), Desed

2017 Indiana Rued Code (15 Rue), Desed

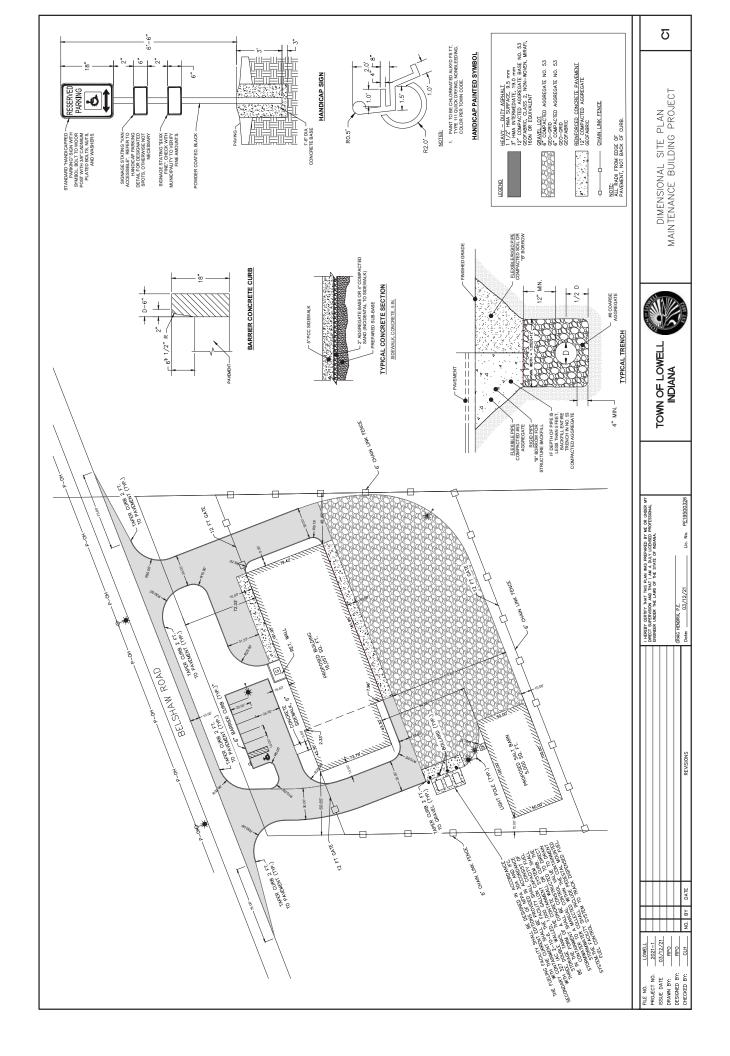
2017 Indiana Rued Code (15 Rue), Desed

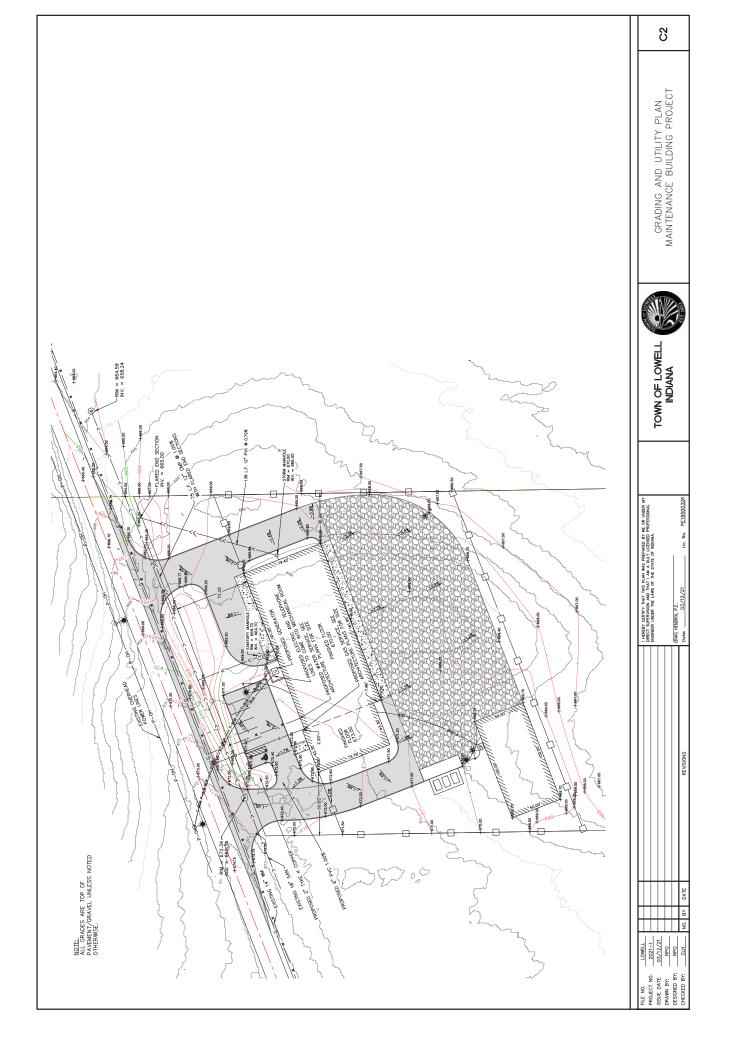
WHAREHOUSE S-1 Moderate-hazard storage

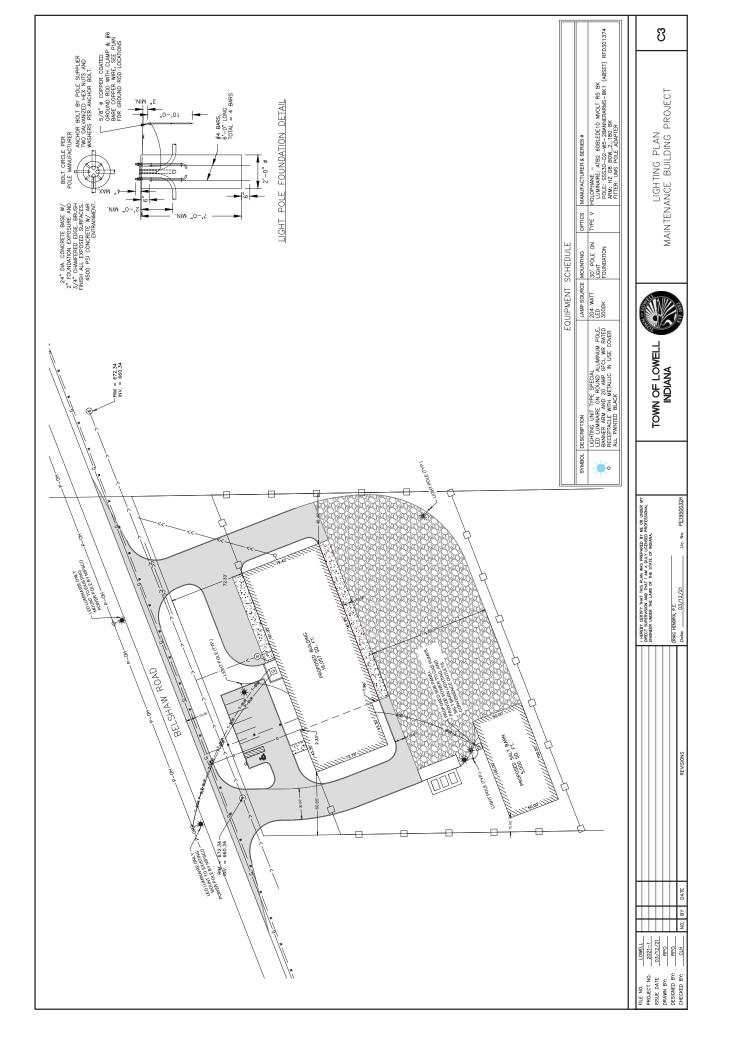
CONSTRUCTION TYPE:

BULDING AREA: USE GROUP:

BUILDING DESCRIPTION









- CONCRETE MASONRY UNITS (CMU) SHALL BE AS INDICATED ON THE PROJECT DRAWINGS. ANCHORS AND TIES SHALL BE ZING-COATED STEEL AND SHALL MEET "ASTAI" A-525, CLASS
 - MORTAR SHALL CONSIST OF PORTLAND CEMENT, HYDRATED LIME AND SAND IN A PROPOR DF1:18 IN ACCORDANCE WITH "ASTAN" C-270 FOR TYPE "N" MORTAR. JONT RENFORCING SHALL BE PREFABRICATED TRUSS-TYPE, SMILAR TO "DUR-G-WALL" SHALL MEET "ASTN" A-163, CLASS B-2.

ALL ROD-ACCESSAGE BLATE TO THE UNDERTHING-ACCESSOR BIT OF COLORES OF OTHER WAS ALL ROD-ACCESSOR BIT OF COLORES OF OTHER WAS ALL BE OF THE UNDER SEASON BIT OF THE WAS ALL BE O

ALL BEAMS, LINTELS OR STRUCTURAL MEMBERS TO BE NO. 2 SOU "E" = 1,600,000 AND Fb = 1,300 (OR EQUAL).

ALL WOOD LINTELS OVER DOORS AND WINDOWS SHALL BE 2 - 2 x 12s (UNLESS NOTED OTHERWISE). ALL WOOD PLATES AND SILLS BEARING DIRECTLY ON CONCRETE SHALL BE PRESSURE TREATED FOR ROT AND TERMITES.

ALL EXTERIOR CORNERS SHALL BE LET-INMETAL DIAGN #CWB-126, OR 58° CDX PLYNOOD. RLOOR: (LIVELOAD =40 P.S.F., DEAD LOAD = 15 P.S.F.) PARTITIONS: ASSUMED WALL LOAD = 20 b.F. ROOF: (LIVE LOAD = 20 P.S.F., DEAD LOAD = 10 P.S.F.)

SNOW LOAD: 30 lb P.S.F.

- LINESTONE SILLS AND CAPS WHERE REQUIRED SHALL BE"INDIANA" LIMESTONE, BUFF COLOR, VARIEGATED STONE SHALL NOT BE PERMITTED.
- EXPANSION AND CONTROL, JOHF FILERS SHALL BE PRE-FORMED RUBBER. THE EXTENT AND LOCATION SHALL BE AS INDICATED ON THE PLANS.
 - FLASHING @ ALL MASONRY LINTEL OPENINGS AND WEEP HOLES SHALL BE OF THE TYPE AS MINDCATED ON THE PROJECT DRAWINGS, WEISES SALLE BE WICK TYPE, INSTILLED IN EXTERORY MALLS AT TWENTY FOUR (A), MCH CENTERS (MA), SPACING. PROTECT ALL MASONRY MATERIAL AGAINST MOISTURE. DO NOT USE REINFORCING OR TIES HAVING LOOSE RUST OR OTHER COATINS WHICH AFFECT BONDING.
 - CAYOU PANILS RUTHER SANTINES, WITH CORRESS LEGA ACCURATED SERVEDS MAD COSCIONATED WITH OTHER WORK ALL BOADDS MALL MATCH BOSTING UNESSS MIDCATED OTHERWISE. ALL MORROW NALLOWS TO SHALL BELLEDE, MAD ALL VISTITIOAL DOWN TO SHALL BELLEDE, MAD ALL VISTITIOAL DOWN TO SHALL BE AND DOWN TO SHALL BE AND TO SHALL WITH A COST WHE CONTROLL OF MALLS ONE COLORIST IN (14) MCH FOR THE PRISON TO MAD TO SHALL WITH A DOTTON OF THE WALL.
- BRICK WORK SHALL BE REINFORCED WITH CORROSION RESISTANT TIES, SPACED ATSIXTEEN (16) INCHES VERTICAL CENTERS AND THIRTY TWO (32) INCHES HORIZONTAL CENTERS.
- EXPOSED JOINTS SHALL BE TOOLED AND BRUSHED.
- CLEAN ALL MASONRY WORK INCLUDED IN THIS SECTION. PROTECT ADJOINING WORK FROM DAMAGE FROM ALL CLEANING OPERATIONS.

- SET STEEL LINTELS AND MISC. STEEL BEARING @ EACH END OF BEARING.

ALL DOUBLE TRUSSES OR "MICRO-LAM" BEARINS ON FRAME WALLS TO BE CARRIED DOWN TO FOUNDATION ON TRIPLE STUDS GLUED AND SPIKED AS INDICATED. EXTERNOR OR LOAD BEARING WALLS WITH PLATES CUT, DRILLED OR NOTCHED MORE THAN SON, OF THE WORTH OF THE STID SHALL HAVE A GALVANIZED METAL THE 16 GAGGE AND 11/2 NOCHS, 61/197 WIDE FASTENEDTO E GACHPLATE. EXTERIOR O'R LOAD BEARING WALLS WITH STUDS DRILLED WITHIN 56" OF THE FACE OF THE STUD SHALL BE REINFORCED WITH A STRUCTURAL STUD SHOE.

6 4

ROCF SHEATHING SHALL BE SIGT DOUGLAS FIR COX PL YMOOD WITDENTFICATION INDEXNO 2016. ALL THROAD, ROOMS AND WALK ON DECKS SHALL BE SIG" COX PL YWOOD INDEX NO. 2448. ALL TO BE GULED AND NALED. WIND EXPOSURE CATEGORY B. URBAN AND SUBURBAN AREAS, WOODED AREAS OR O'THER TERRAY MY MUMBROSS CLOSES, EXCED GESTRUCTIONS HAWNG THE GIZE OF SNIGLE FAMEY DAY ELIM MOS OR LARGER. EXPOSURE B SWALL BE ASSUMED UNLESS THE SITE MEET THE DEPARTION OF ANOTHER TYPE OF EXPOSURE.

- WHERE AND WHEN CALLED FOR ALL CLEAN GRANULAR FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% OF "A STAT" D.1557-70 (MINIMUM PROCTOR DENSITY). EXCAVATIONS DEEPER THAN THE ELEVATION OF FOOTING MUST BE CLEARED THROUGH THE ENGINEERING OFFICE.
 - WALL FOOTINGS TO HAVE OF PROTECTIONS FROM EACH FACE OF WALL AND BE 11-0" DEEP (UNLESS NO TED OTHERWISE).
- BARBANDE 2-#BARB (TOP AND BOTTOM), CONTRUCUS IN CONCRETE WALL UNLESS NANDTED OTHERWISE. LAS AND PROVIDE 4-OTHORS AND PROVIDE 4-OTHORS (UNLESS NOTEDOTHERWISE). AAL RENFORCED CONCRETE WORK SHALL BE BI ACCORDANCE WITH THE LATEST EDITION OF "BULLING LOCK RECUIREMENTS FOR PRESENCEDED CONCRETE" PAS PRESENCED CONCRETE PAS PRESENCED STATEST PAS PRESENCED STATEST PAS PRESENCED TO STATEST PAS PRESENCED STATEST PAS PRESENCED STATEST PASSENCED STATE
- ALL CONCRETE TO HAVE A MINIMUM ULTMATE STRENGTH OF 3000 P.S.I. AT THE END OF 28 DAYS UNLESS NOTED OTHERWISE).
- ALL REINFORCING STEEL SHALL CONFORM TO "ASTAI" A-615, GRADE 60 SPEC, FOR NEW BILLET STEEL. ALL WELDED WIRE MESH SHALL BE LAPPED (2) TWO FULL MESH PANELS AND TIED SECURELY WELDED WIRE MESH SHALL CONFORM TO "ASTAM" A-185 SPEC.
 - CONCRETE COVER SHALL BE 1" TOP AND BOTTOM FOR SLABS; 1-12" FOR BEAMS, COLLINNS AND WALLS 3" FOR FOOTINGS, MATS AND GRADE BEAMSAL CONSTRU. JOINTS SHALL BE THOROUGH,"Y GLANED OF LATIANCE WITH A WHEE BRUSH AND WATER BIMEDIATELY PROP TOP DOLIRING OF SUBSECUENT ON MEW CONORTER.
- POUR ALL SLABS-ON-GRADE IN CHECKERBOARD FASHION BETWEEN.CONSTRUCTON CONTR'S IN AREAS NOT TO EXCEED 600 SQ. FT. WITH AMINIMUM OF 24 HOLDS BETWEEN ADJACENT POURS. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE OR MORTAR.
 - SPADE OR VIBRATE CONCRETE FOUNDATIONS AS NECESSARY TO AVOID HOMEYCOMBING INSTALL ALL THRU-WALL SLEEVES OR CHASES AS REQUIRED BY THE ELEC OR HVAC CONTRACTOR, LOCATE AS DIRECTED. ALL STRUCTURAL STEEL SHALL CONFORM TO "ASTAL" A-36 SPEC. (UNLES). OTHERWISE).
- CONCRETE CONTRACTOR TO SUBMIT ALTERNATIVE PRICE FOR REPLACING DAN SECTIONS OF PUBLIC SIDEWALK.
- TO CONCEILE ALSO GROUPE WITH ONE LATE WITH WE GO DAY 1-17 CLEAR BEEF OF CONCEILE ALSO GROUPE WITH WE ASSOCIATED THE WORK BE STORY THE WEST OF CONCEILE ALSO GROUPE WITH WE ASSOCIATED OT SOMEWISE, SEE TO CONCEILE ALSO GROUPE WITH WE ASSOCIATED OT SOME ASSOCIATED OF CONCEILE AND WITH WE ASSOCIATED OF CONCEILE AND WITH WE ASSOCIATED OF CONCEILE AND WITH A SECURITY OF THE WITH A SECURT OF THE WITH A SECUR

TYPE 14-FIRE CODE INTUMESCENT ACRYLIC FIRESTOP SEALANT-TO BE USED AS FIRESTOP AND DRAFTSTOP AT ALL REQUIRED LOCATIONS AS DESCRIBED IN IRC R602.8

MANUFACTURE RS INSTALLATION INSTRUCTIONS FOR THE PRE-ENSINEERED TJI FLOOR JOISTS SHALL BE ON THE JOBSITE AT THE TIME OF INSPECTIONS. CUTS, NOTCHES AND HOLES BORED INTRUSSES, LAMINATED VENEER LUMBER, GLUE-THE THE TRAINERS OR ALORISM ARE NOT PERMITTED UNLESS THE EFFECTS OF SUCHARE PSPECENCULY ANDRESSED (SECTION: ROJ282)

NOTE COORDINATE CONTRACTOR SHALL COORDINATE ALL CHASES AND SLEEVES IN FOUNDATION WALLS WITH PLANIBIG AND HEATING CONTRACTORS.













- THESE DRAWINGS NDICATE THE GENERAL SCOPE OF THE PROJECT INTERAIS OF THE ARCHITECTURAL DESIGN CONCEPT, MANOR ELEMENTS AND WATERALS. HERE DRAWINGS DO NOT NECESSARLY ROKATE ON DESCRIBE ALL WORK ERCURIED FOR THE FILL, CONK, EITON OF THE PROJECT.
- THIS CONTRACTOR SHALL INSTALL SMOKE DETECTORS AS REQUIRED BY THE CITY OF LOWELL CODE
- WITH CONTINUE AND SECUENCY OF CANOLOGY CAN A ACCOUNT OF THE CANOLOGY CANOLO INTERIOR FINISHES SHALL NOT EXCRED CLASS 1, 0.25 FLAME SPREAD, 200 SMOKE.
 - THE CONTRACTOR SHALL BE HELD RESPONS BLE FOR THE ADHERENCE TO COMPLY WITH ALL APPLICABLE CITY, STATE, AND NATIONAL, CODES AND ORD MANGES. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR FIELD VERFICATION OF ALL DIMENSIONS AND CONDITIONS BEFORE EXECUTION OF ANY WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING.
 - THE CONTRACTOR SHALL VERIFY ALL PARTITION LAYOUTS WITH THE ARCHITECT BEFORE PROCEE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL INCOMING UTILITIES.
 - THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL:

COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.

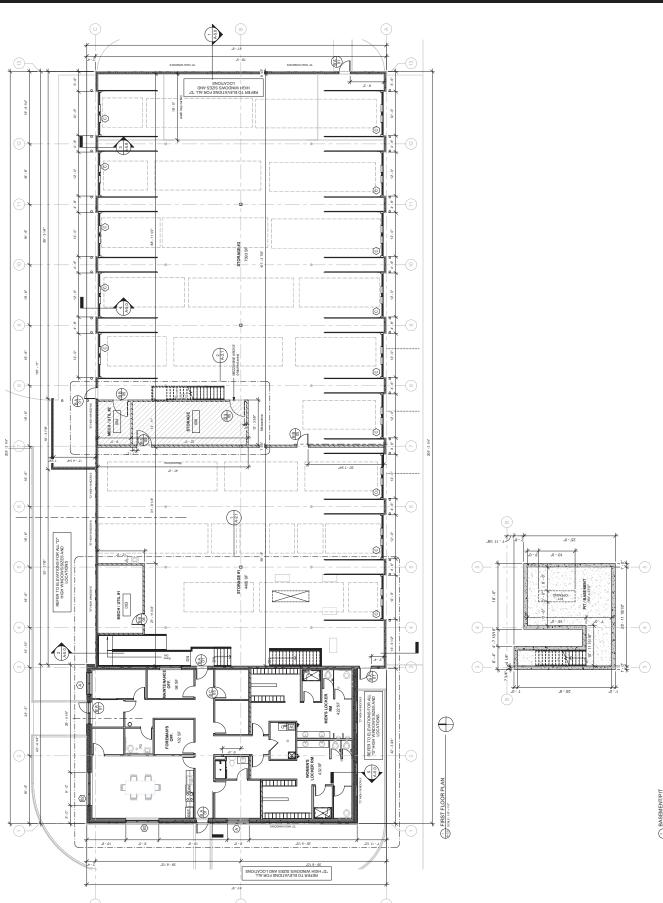
- RENAIN RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) LATESTADDITION. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER SUBMITTAL OF COMPLETION OF WORK. PERFORM ALL WORK IN A FIRST CLASS WORKMANSHIP LIKE MANNER AND IN NO \
 STRUCTURAL STRENGTH OF THE BUILDING.
- E MANTAN TRROLGHOUT THE CONSTRUCTION PERCOL A CRITEFOATE OF NOUNACE FOR ALL UMBLITES WITH A HOLD THE CENTER CONTINUES SELECTIVE SELECTION SELECTIO ALL WINDOW GLASS, MIRRORS, FLOORS AND WALL TILE SHALL BE CLEANE BY THE GENERAL CONTRACTOR.
 - THE PERMISSES SHALL BE KET'N A REMOVA NEWFT FRANKE COMPTON LUBRA ALL PASSES OF THE COMPRETURITYON, ALL COMPACTORS AND SUBSCONTRACTORS SHALL BE RESPONSED. ET OR CAMMAD TO AND DEPOSITION OF THE FUTTER, AND LESSON THE PROJECT IN A BROOM SWEPT PRISH CONDITION UPON COMPLETION OF THE PROJECT IN A BROOM SWEPT PRISH CONDITION UPON COMPLETION OF THE PROJECT.
 - THE ENTRE INSTALLATION SHALL BE PERFORMED IN FIRST CLASS WORKMANSHIP LIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL, ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND NSTALLONE (1) 4×4 WOOD POST WITH A TEMPORARY METER HELD AND WING); INV. AND ONE (1), 720 VOINTEET DIE DE BERD PRA LOTHER THANGES DIRNOT THE COURSE OF CONSTRUCTION OR UNIX WAS SELVEN SELCTRIFED. THE BELLED TO THE CHERGAL CONTRACTOR. ALL WORK PERFORMED MUST COMPLY WITH THE CITY OF LOWELL BUILDING CODE.
 - THE GENERAL CONTRACTOR TO PROVIDE TEMPORARY FENCING AND BARRICADES AROUND THE ENTIRE SITE TO BE PROT AND AT ANY INTERIOR FLOOR OPENINGS THAT MIGHT CAUSE A HAZARD TO ALL.
- THIS BET OF A ARE SIMOTECTED UNITED STATES GOVERNMENT COMPRISHIT LAWS AND MAY NOT BE REPRODUCED. REPRODUCING REPRODUCED OF MOTOCOMPING. ANY OF THIS WORK WITH E. SELECT TO LAWS ITS AND SIGHERAL THE ANY THE LAWS LIVEN SAID.

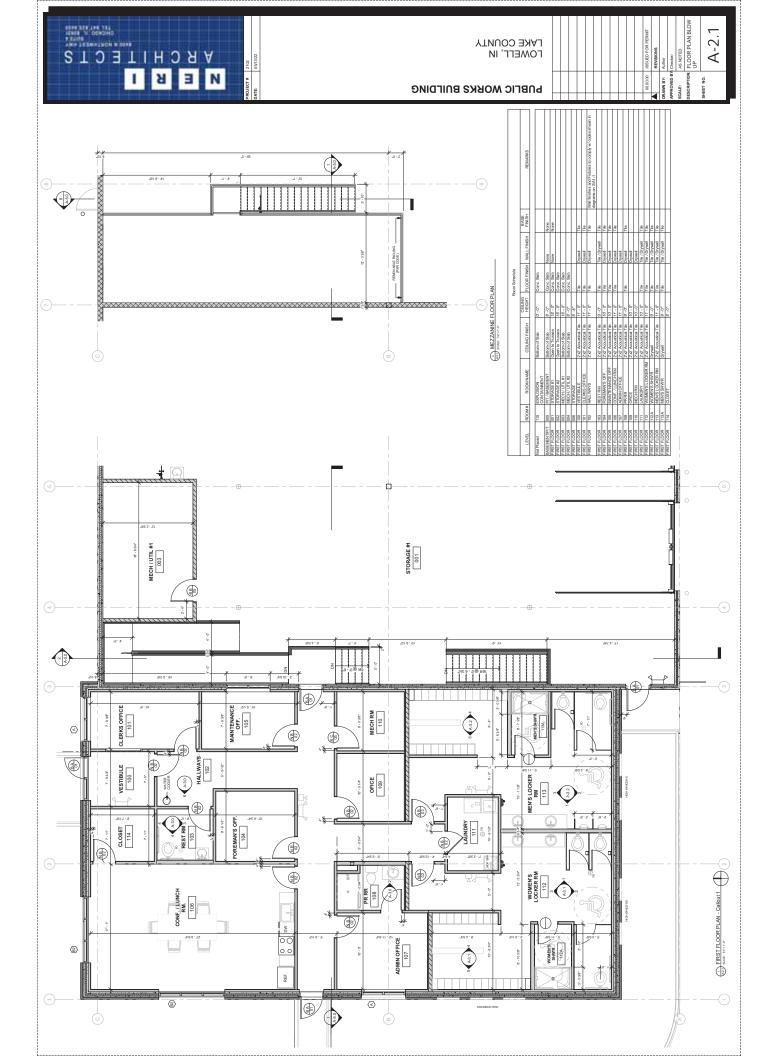
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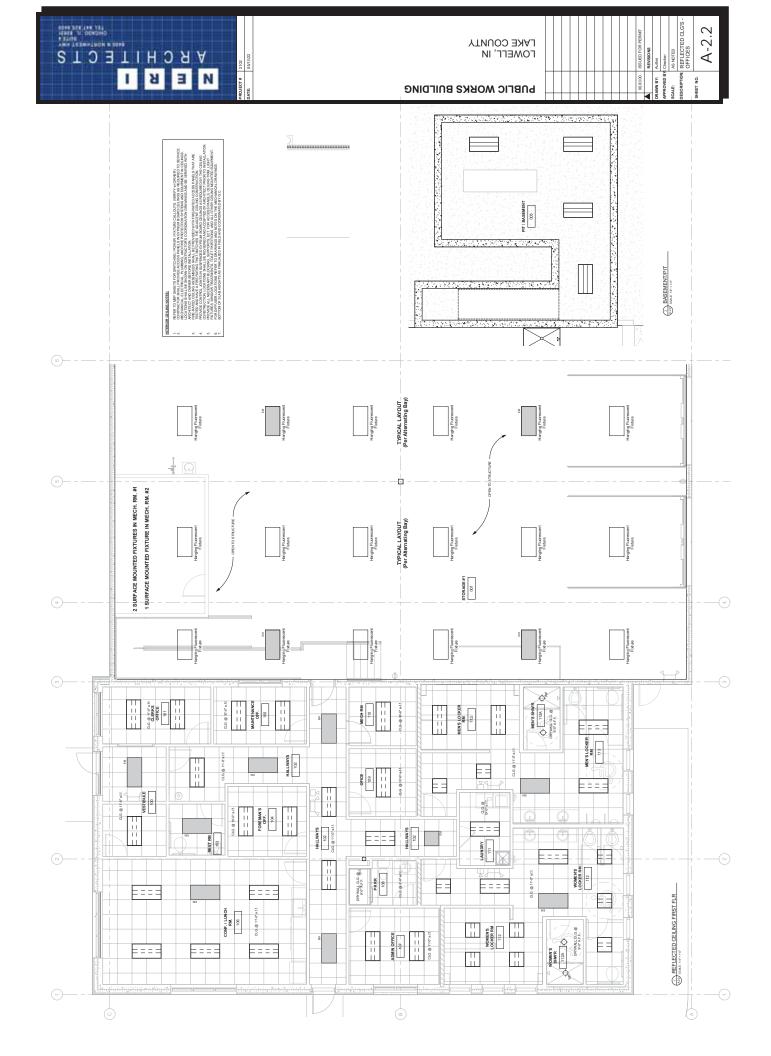
THESE DRAWINGS WERE PREPARED UNDER MY DIRECTION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE IN ACCORDANCE WITH THE BUILDING LAWS OF CITY OF LOWELL.



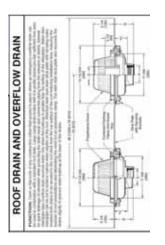


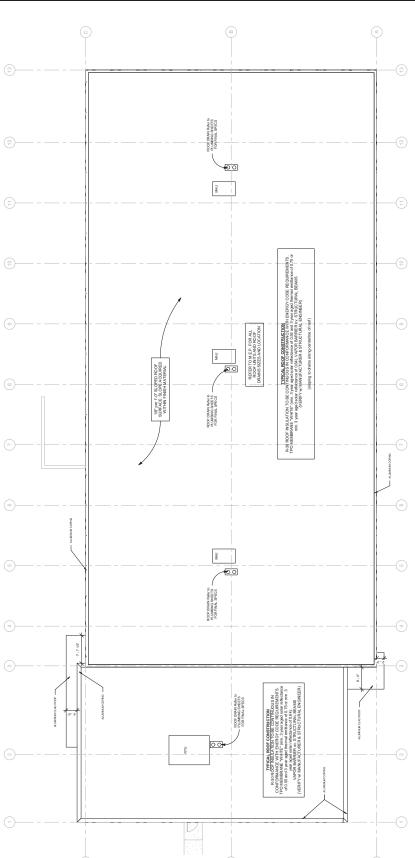




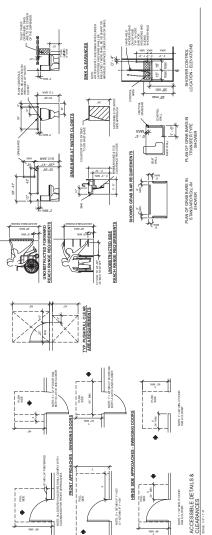


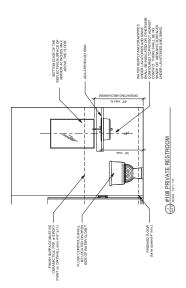


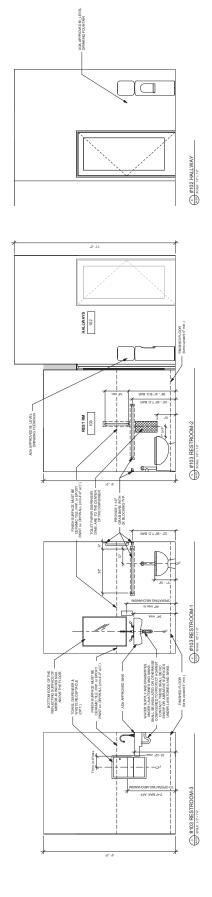




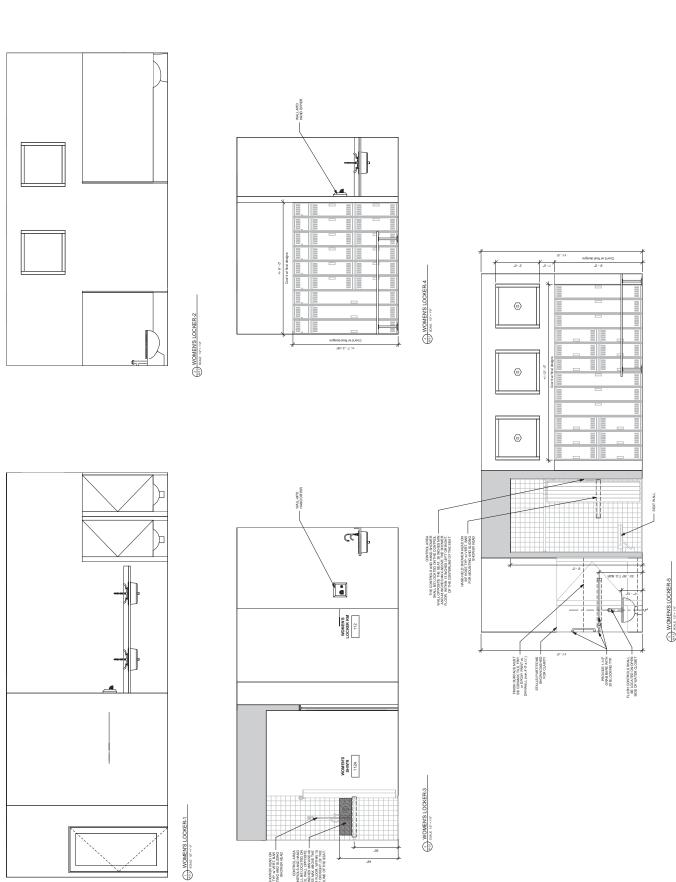




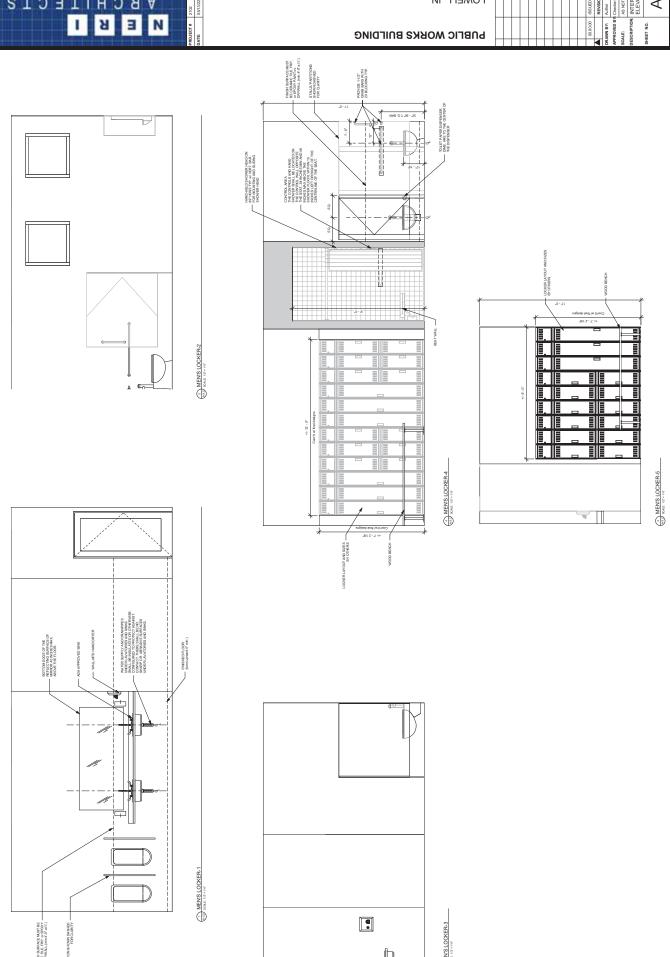


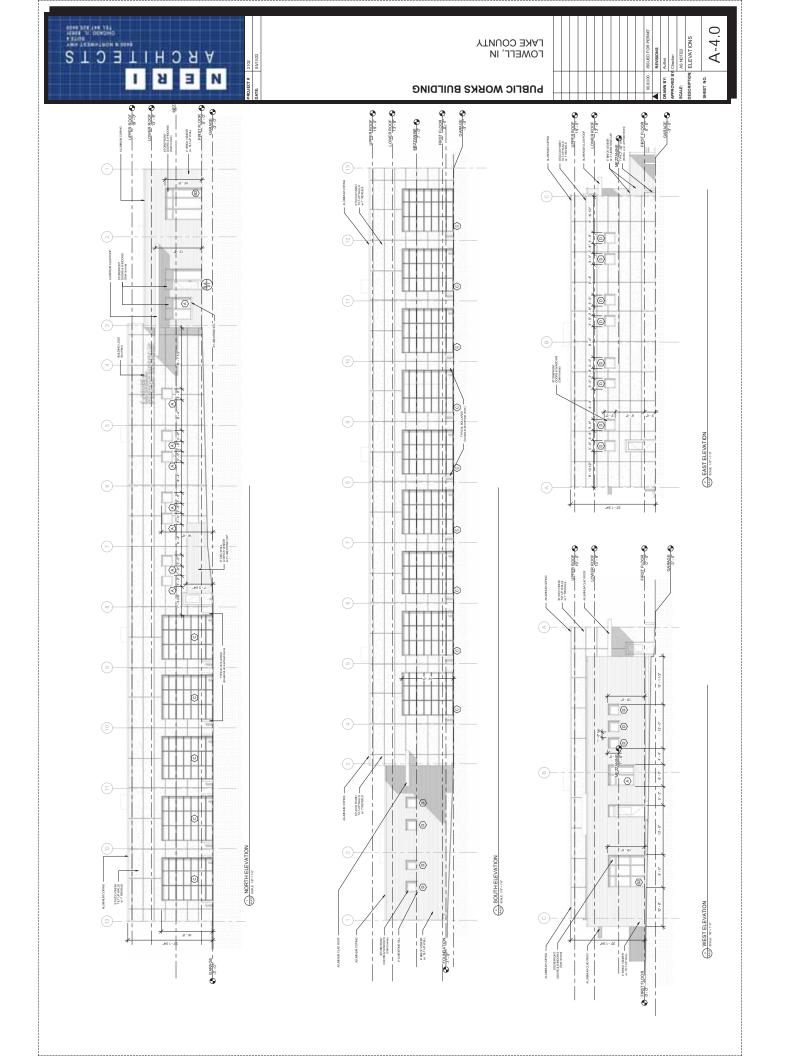




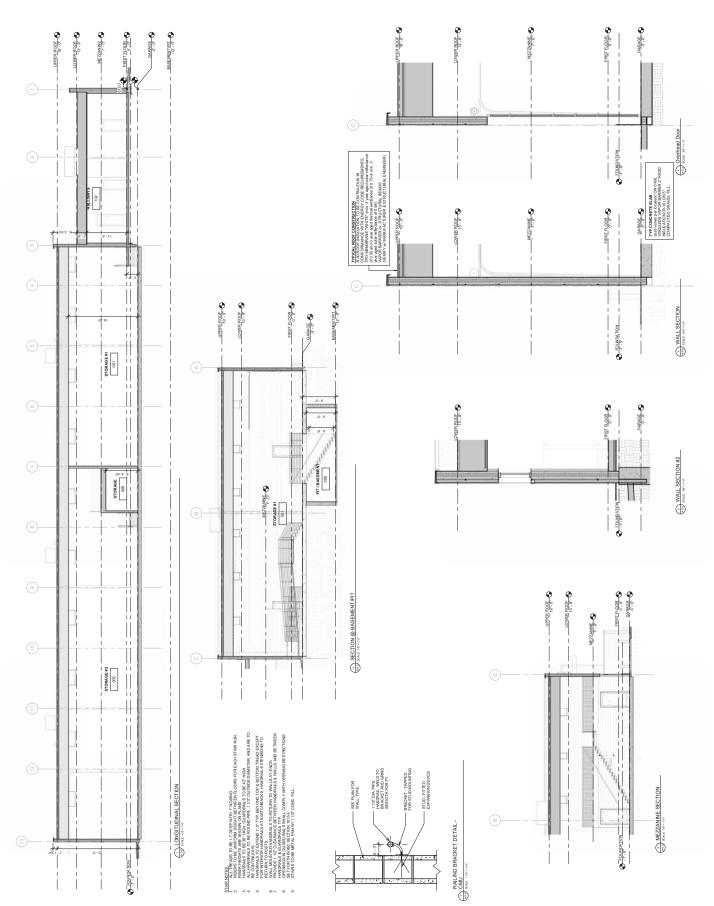










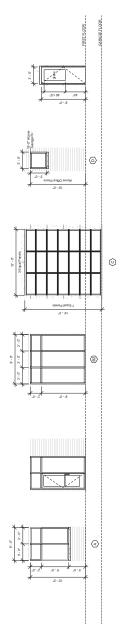






	FRAME	L FINISH REMARKS	ALUM CLAD & PTD	DLG.	DLG.	DLG.	DLG.	PTD	ALUM CLAD & PTD	DLG.			
ш		MATERIAL	QM	QM	ME	QM	QM	QM	QW	QM	L	L	
DOOR TYPE SCHEDULE	DOOR	FINSH	ALUM CLAD & PTD	PTD	PTD	PTD	PTD	PTD	ALUM CLAD & PTD WD	PTD			
R TYPE	og	MATERIAL	WD	WD	MTL	WD	WD	WD	Q.M.	WD			
8		ELEV	<	<	8	۵	۵	۵	a	<			
		HEIGHT	8.0	.8-9	7.0	.8-9	.8-9	.8-9	.8-9	.8-9			
		WIDTH	3.0	3.0	4:0.	4.C	4:6	5:0	.0-9	2:4"			
		TYPE (#)	Б	20	8	8	90	90	20	8			

SET# OPENWO TIPE HINGES 112 PAIR BUIT, 4 1/2"xd* CYLINDER DEADLATCH KEY EXTERIOR PUSH BAR INTERIOR, PULL EXTERIOR MATCH					HARDWARE SCHEDULE					
FUTE PAIR BUTT, 4 17x8" CYLINDER DGAOLATCH KEY EXTERIOR PUSH BARINTERIOR, PULL EXTERIOR WATCH PROPERCY	SET#		HINGES	LOCKSET	KNOB/LEVER	FINISH	CLOSER	STOP	STOP WEATHERSTRIPPING	æ
OFFICE 11.2 PAR BB BUTT, 4 PRIVACY ANSI F82 / KEYEDIOUT) LEVER GLOSET 11.2 PAR BB BUTT, 4 PASSAGE. ANSI F75 LEVER BATHROOMS 11.2 PAR RB BUTT, 4 PRIVACY ANSI F78.A LEVER JANNITORS CLOSET 11.2 PAR RB BUTT, 4 STOREROOM, ANSI F88 / KEYEDIOUT) KNURLED LEVER FXTRRIOR SWINK 11.2 PAR RB BUTT, 4 17.24* CYNINSED FADJATCH JRYY EXTERIOR PISSH BAR INTERIOR KWINERD LEVER	01	ENTRANCES	1 1/2 PAIR BUTT, 4 1/2"x4"	CYLINDER DEADLATCH. KEY EXTERIOR	PUSH BAR INTERIOR, PULL EXTERIOR	RONT	ES		YES	THRESHO
CLOSET 112 PAIR BB BUTT, 4 PASSAGE. ANS IF75 LEVER BATHROOMS 112 PAIR BB BUTT, 4 PRIVACY. ANSI F76A LEVER JANITORS CLOSET 112 PAIR BB BUTT, 4 STOREROOM, ANSI F60 K KEYEDIOUT) KNURLED LEVER FXTRRIOR SWINK 112 PAIR BB BUTT, 4 17"-45" CYNINGED FRAINTH KEY EXTERIOR PISH BARA INTERIOR KMIRETD FEVER EXTERIOR	05	OFFICE	IR BB BUTT, 4	PRIVACY, ANSI F82 / KEYED(OUT)	LEVER	SATIN CHROME N	Q	WALL	YES	
112 PAIR BB BUTT, 4 PRIVACY ANSI F76A LEVER LE	03		AIR BB BUTT, 4	PASSAGE, ANSI F75	LEVER	SATIN CHROME N	Q	WALL	YES	THRESH
JANTORS CLOSET 112 PAIR BB BUTT, 4 STORERCOM, ANSI F86 / KEYED (OUT) KNURLED LEVER 1/2 ZAF FYTERORS SWINS 1.10 PAIR BITT 4.10"x4" CYLINDER DEADLATCH KEY EXTEROR PISH BARE INTERIOR KNIRI ED JEVER EXTEROR	04		AIR BB BUTT, 4	PRIVACY. ANSI F76A	LEVER	SATIN CHROME N	Q	WALL	9	
EXTERIOR SWING 1.12 PAIR BUTT 4.12"x4" CYLINDER DEADLATCH KEY EXTERIOR	90		AIR BB BUTT, 4	STOREROOM: ANSI F86 / KEYED(OUT)		SATIN CHROME Y	ES	WALL	9	
	90	EXTERIOR SWING	1 1/2 PAIR BUTT, 4 1/2"x4"	CYLINDER DEADLATCH. KEY EXTERIOR	PUSH BAR INTERIOR, KNURLED LEVER EXTERIOR	SATIN CHROME Y	ES	TBD	YES	=ULLY GA





- PIPE COVERING (FLEXIBLE FOAM)

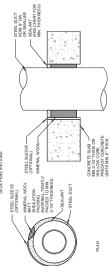
FIRESTOPPING NOTES

HOLLOW CORE CONCRETE PLANK FLOOR ASSEMBLY PLASTIC PIPE UL, DES, NO. 84 - UP TO 2 HR. RATING

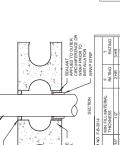
METAL PIPE
UL. DES. NO. 319 - UP TO 2 HR. FIRE RATING
COMPONIENTS
1. MINERAL, WO'CL, PACKED MOT ANNULAR SPACE
2. FIRESTOP CAULK EACH SIDE OF PENETRATION

2. PHE STOP CAULK OR MOLLIABLE PUTTY EACH S METAL PIPE ULL, DES, NO. 147 (A) - UP TO 2 HR. FIRE RATING 1. FIRE STOP CAULK EACH SIDE OF PENETRATION

METAL PIPE COMPONENTS: TAMMANIA 3 DEPTH MINERAL WOOL BACK NIS P SPACE 2. FIRE STOP CAULK EACH SIDE OF PENETRATIO METAL PRE UL. DES. NO.463 - UP TO 1 HR. FIRE RATING SOMPONENTS. 1. PROVIDE FIRE STOP CAULK AROUND GYP DECK PENETRATIONS



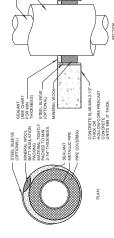




PLAN

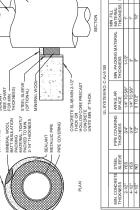
PIPE THROUGH PENETRANT - MIN.1/4" BEAD OF SEALANT AT POINT CONTACT LOCATION





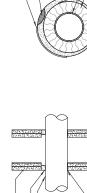
		T RATING	3/4 HR	3/4 HR	34 HR	34 HR	
		FATING	2 HR	2HR	2HR	2 HR	
SECTION		MIN. FILL MATERIAL THICKNESS	÷	÷	-2/1	-2/1	
Ø	-AJ-5155	MIN. PACKING MATERIAL THICKNESS	1-172	ħ	in in	h	F
	UL SYSTEM NO. C-AJ-5155	ANNULAR	1/4" TO 5/8"	1/4" TO 5/8"	0 TO 2"	1/4" TO 1-5/8"	CEAL LOI CEAL AN
		P IPE COVERING THICKNESS	3/4"	3/4"	1/2	Z/I	CILL MATERIAL - CDEC/IDED/TECHNOl OCICS - CDEC/CEAL CLICEAL ANT
		STEEL	YES	YES	QV.	YES	DEC IDENTE
		MIN. CONCRETE STEEL THICKNESS SLEEV	2-1/2"	4-1/2"	4-1/2"	4-1/2"	SEL MATERIAL C

34 HR



MIN.1/4" BEAD OF SE AT POINT CONTACT. LOCATION

MAX ANNULAR SPACE



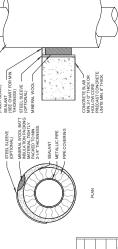
			PLAN					MIN. CONCRETE STEE	2:1/2 OPT) 4:1/2 OPT)	FILL MATERIAL: SPECIF
			RATING	1/4 HR	1/4HR	THR OR 1-344HR	182HR 1HR OR 1-34HR	1HR OR 1-34HR	OHR	
			RATING	182 HR	182 HR	182 HR	182 HR	182 HR	182 HR	
	SECTION	W-L-2241	MIN. FILL MATERIAL THICKNESS	.8/9	5/8	2/8/	29/92	2/9.	2/8	ANT
`	ANT	UL SYSTEM NO. W-L-2241	ANNULAR	01 TO 11	0° TO 1°	0° TO 1°	0°TO 1°	0° TO 1°	1/4" TO 3/4"	CHNOLOGIES-SPECSEAL LCI SEALANT
NMETALLIC PIPE	I/4" BEAD OF SEALANT DINT CONTACT ATION		MAX. PIPE DIAM.	Z	S.	8	£	÷	1-1/2	X.OGIES-SPE
NME	I/4" BE DINT C ATION							EX)		Ĭ

\sim		IG RATING	R 1MHR	R 1/4HR	R 1HR OR 1-34HF	R 1HR OR 1-34HF	R 1HR OR 1-34HF	R 0HR	
		RATING	182 HR	182 HR	182 HR	182 HR	1&2 HR	182 HR	
SECTION	W-L-2241	MIN. FILL MATERIAL THICKNESS	28/9	28/9	-9/9	5/8	5/8"	2/9.	ANIT
ANT TANK	UL SYSTEM NO. W-L-2241	ANNULAR SPACE	° TO 1°	° TO 1°	4 07 70	0°TO 1°	or TO 1"	1/4" TO 3/4"	COUNTY I CLOSE
FILM WITERAL NOMETALLO PRE- THRO USH PENETRANT THRO USH PENETRANT NOMETALLO PIPE NOMETALLO PIPE NOMETALLO PIPE OCATION CONTACT		MAX. PIPE DIAM.	Z	Z	Z	ž	÷	1-1/2"	A OCIEC CD
FLAMETRAL WOMETALLO PE WOMETALLO PE WANT PERJOD SE AND COOTINGTO		TYPE OF PENETRANT	POLYVINYL CHLORIDE (PVC) PIPE	CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE	RIGID NONMETALLIC CONDUIT	ELECTRICAL NONMETALLIC TUBING	CROSS LINKED POLYETHYLENE (PEX) TUBING	ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE	THE ASSESSION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY

4-1/2" 4-1/2" 4-1/2"

PVC, coPVC, CPVC, RNC.

		UL SYSTEM NO. W-L-2241	W-L-2241			_
TYPE OF PENETRANT	MAX. PIPE DIAM.	ANNULAR SPACE	MIN. FILL MATERIAL THICKNESS	RATING	RATING	_
POLYVINYL CHLORIDE (PVC) PIPE	Z	9 TO 1	2/8.	182 HR	1/4 HR	_
CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE	S.	0° TO 1°	29/9	1&2 HR	1/4 HR	_
RIGID NONMETALLIC CONDUIT	8	0° TO 1°	29/9	182HR	1HR OR 1-34HR	_
ELECTRICAL NONMETALLIC TUBING	Z	0°TO 1°	2/8.	182 HR	THR OR 1-34HR	_
CROSS LINKED POLYETHYLENE (PEX) TUBING	÷	9 TO 1"	.8/5	1&2 HR	1HR OR 1-34HR	_
ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE	1-1/2	1/4" TO 3/4"	29/5	1&2 HR	OHR	
FILL MATERIAL: SPECIFIED TECHNOLOGIES-SPECSEAL LCI SEALANT	X.OGIES-SPE	CSEAL LCI SEAL	ANT			1



					THICK		
RATING	1/4 HR	1/4 HR	1HR OR 1-34HR	1HR OR 1-34HR	1HR OR 1-34HR	OHR	
RATING	1&2 HR	182 HR	182 HR	1&2 HR	1&2 HR	182 HR	
MIN. FILL MATERIAL THICKNESS	5/8	5/8"	5/8"	2/8	5/6	5/8"	AMT
MAX. PIPE ANNULAR DIAM. SPACE	PT0 1*	or 10 1"	or 10 1"	or 10 1"	or 10 f*	1/4" TO 3/4"	COCCAL LOI CEAL
MAX. PIPE DIAM.	Z	Z	ž	k	÷	1-1/2	A OCIEC CDE
VETRANT	CHLORIDE (PVC) PIPE	SPVC) PIPE	ETALLIC CONDUIT	NONMETALLIC	ED POLYETHYLENE (PEX)	ALE BUTADIENE BS) PIPE	CDIAL-CDECIDED TECHNOLOGIES CDECCEAL LO CEALANT

1/2"	
N/A	
3	RAP STRIP
3	EAL BLU W
9	SEALANT WRAP STRIP, SPECS
BLUOR BLU2	EAL LCI
4-1/2"	OGIES-SPECSA
.9	ED TECHNOLO TECHNOLO
	SPECIFIED 3

DRAWING INDEX S-101 GDERAL NOTES S-101 GDERAL NOTES S-201 FUOR NATURAL NATURA NA
--

- DESIGNAND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF LOWELL BUILDING CODE, LATEST EDITION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRICR TO COMMENDIONS WORK. THE ENGINEER SHALL BE NOTHELD OF ANY DISCREPY WOUNTHANY EXIST.
- INSPECTIONS SHALL BE MADE ON ALL MATERALIS AND PROCESSES AS SPECIFED BELOW:
 A. CONVERTER HANING A STRENGTH IN EXCESS OF 2000 PSI
 B. WELDING
- TOP OF FLOORS SHALL BETRUETO INDICATED ELEVATIONS, VARATIONS SHALL NOT EXCEED 14" IN 10 FEET, CARE MUST BE EXCENCISED IN PRISHING OPERATIONS TO OBTAIN IT TRUE SUPPLICE. MATERIAL TESTS SHALL BE MADE AS SPECIFIED. CONCRETE TEST CYLINDERS : BE MADE FOR ALL CONCRETE. TEST RESULTS SHALL BE DETERMINED BY THE TESTING LABORATIONY.
 - DETALS, SECTIONS AND NOTES SHOWN ON THIS DRAWING ARE INTENDED TO BE TYPPICAL, AND SHALL APPL VTO SMILLAR STLUMYONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL RIBRISH ALL RECESSARY BRACARD REQUIRED TO PROPERLY STANDARD THE LIBRISH AND RECEIVED TO THE RESPONSE OF A RESPO
 - DO NOT SCALE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHEETING AND SHORING ADJACENT STRUCTURES AS REQUIRED SO THAT THEY ARE NOT ENDANGERED BY THIS CONSTRUCTION: SHORNG SHALL BE DESIGNED BY LICENSED STRUCTURAL. BENNERE AND SEALED.
 - CONTRACTOR SHALL RELY ONLY ON WRITTEN COMMUNICATION WHEN COMMUNICATING WITH THE EOR. FOR WILL NOT PROVIDE ANY INFORMATION YERBALLY.

					·	
DESIGN LOADS:	DESIGN SELEWEIGHT LOADS ARE IN ACCORDANCE WITH SHOWN PHYSICAL STRUCTURE.	THE DESIGN SUPERIMPOSED LOADS ARE AS FOLLOWS:	A. WAREHOUSE R.COR = 128 PSF DEAD LOAD = 15 PSF TOTAL LOAD = 140 PSF	8. OFFICES. 8. SP PSF LAND DAM 8. SP PSF EMOTION 8. SP PSF PARTITION 8. SP PSF (VPL LOAD 8. SS PSF	C. ROOF: a 30 PSF DEAU LOAD = 22 PSF TOTAL LOAD = 52 PSF TOTAL LOAD = 55 PSF TOTAL LOA	D. WIND: MMFRS = 20 PSF CLADDING = 25 PSF

MATERIALS:

- A CONCINETE.

 A CONCINETE PREQUIRE AT 28 DAYS SHALL BE AS FOLLOWS.

 A CONCINETE STATE AND ASSESSED AS A SOFT OF A SO
- RENFORCEMENT:
 A. RENFORMER STEEL SHALL COMFORM TO ASTM615 (60.000 PS 1 YELD.) FOR BEAMS, SLUGGS AND YALLE.
 BEAMS, SLUGGS AND YALLE.
 BEAMS SLUGGS AND YALLE.
 COMPORTING THE SHALL SHA

PART SET VOLUME MARCH MA							
<u>a - </u>	ST CHICKLES	AGGDEGATE MEASSIDED IN	A DAMP, LOOSE CONDITION	12	6	9	6
<u>a - </u>	CALL DOLL OF THE P	S BY VOLUME	TYPE "S" HYDRATED LIME	-	1	-	2
MORTAR TYPE N N O	MONITOR	PARTS	PORTLAND CEMENT	9	2	-	-
			MORTAR	M	S	z	0

SABILITY, LISE CONTROLLED AND CONTRO

REINFORCED CONCRETE NOTES:

-OUNDATION NOTES:

CONCRETE SAIL OF TRE OPPOSET THAT HANDLESS FOR THE ASSAULT SETS AS THE OFFICE OF ASSAULT SETS AS THE OFFI AS AS THE OFFI ASSAULT SETS AS THE OFFI AS TH REINFORCED CONCRETE WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 LATES TEDITION. NO SOL INVESTIGATION HAS BEEN REPROPAIDD BY ANAX BIGGREF BRIG, N.C. THE BEGARN COMPACT VISION FOR THE TOURN MOUND ISSUES AND SONS AS FEET OF CORDICIONAL REPORTS THE PROPAGOD BY AND VANCED BRIGHERS AND SOLVED SOLVED TO TAXAL THE BEGARNON WITH SPALLED BY AND VANCED BY THE TEST BRIGHT BY THE REPORT TO CONSTRUCTION THE BEDD BY A CAUALETED.
TESTING AGENCY PROCETTO CONSTRUCTION PROCEDURE.

THE OWNER SHALL PROVIDE THE SERVICES OF A GEOTEOHNICAL ENGRIERS TO VERFY THE SOLD, BEANDERS FLESSER BEARDER OF A CHECOTRICE SELECTION OF THE SECOND OF THE BEOTH OF THE COTRIGES FLESSER BEARDER OF SELECTION SHALL BY THE ENGRETHER BETONE THE PROCEEDING WITH THE CARRECTOR SHALL BY THE ENGRETHER SHETORE THE PROCEEDING WITH THE SHALDSHAFT OF FOUNDATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL EXCAVATION SUPPORT SYSTEMS. FOOTINGS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED GRANULAR FILL. THE MINIMUM DEPTH FOR FOOTINGS SHALL BE 3'4" BELOW GRADE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

CONTROL JOINTS IN CURBS. RETAINING AND OTHER WALLS SHALL BE EVERY 15 Gr O.C. (MAX.) OR AT CHANGES IN DIRECTION (JUL. ESS NOTED OTHERWISE).

GENERAL MASONRY NOTES:

1. WHERALS.

A PORTIAND CREEKT SHALL BE IN ACCORDING WITH ASTIN CHOLUTEST
WERSAN, THE CROUND WHITH THE REQUIRED PLOCARS SELECTION
OF RESCOUNDED SHALL BE IN ACCORDING THE SHALL BE ADDICATED SHALL
OF RESCOUNDED SHALL BE INC. THE COMPANIENT SHALL BE AND CHOLUTEST
OF RESCOUNDED SHALL BE AND CHOLUTEST WITH ASTINCHARM NATIONAL THE SHALL BE AND CHOLUTEST WHITH TASKS THE HOLD OF SHALL BE ADDICATED THOS SHALL BE AND SHALL BE ADDICATED THOS SHALL BE AND SHALL BE ADDICATED THOS SHALL BE ADDIC

PROPORTIONING: MORTAR SHALL BE PROPORTIONED BY VOLUME PER ASTM C-27064T FOR TYPE N, S.OR.M.

MRONES MIX CABASTITIOUS UNTERFAILS AND LOGGREGATE IN ABLICHANICE, BATCH MIXER FOO PRODUCE. A WORK-ABLE COMSISTENCY. LISE MORTAR WITHIN TWO HOURS AFTER MIXING. DO NOT RELIBER PROFILES WITH IT HE MAXMILIA AND MIXERS WITHOUT WE HOURS AFTER MIXING. DO NOT RETURNED HOURS AFTER MIXING. DO NOT ADD DUMBTICES WITHOUT WIRTHIN APPROVILE, DO NOT ADD DUBE TO MASSANEY CEBERTIN MIXET HAND.

LINIT MASOWRY: BI ADDITION TO THE REQUIREMENTS SPECIFIED HERENI, COMPLY WITH THE APPLYCABLE RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION CONCIDETE MASOWRY HANDBOOK.

THE STATE OF THE S

PROTECTOR DURNO CONSTRUCTON, THE TOPS OF ALL WALLS SHALL BE ORDERED AND THE PROTECTOR TO THE TOP OF THE TOPS OF ALL WALLS SHALL BE SHALL BY REQUESTED THE TOWNS OF THE PROTECTOR TOWNS OF THE WESTERN OF THE TOPS OF THE PROTECTOR TO THE TOP OF THE TOP OF THE TOP OF THE TOPS OF THE WESTERN OF THE TOP OF THE TOPS OF THE WORK AND THE TOPS OF THE TOPS OF THE TOPS OF THE WORK AND THE TOPS OF TOPS OF THE TOPS OF THE TOPS OF THE

REMPORED HARDON WALL REMPORED HE FALDON
STEEL WERE THOROUGH WAS THE FEBRE OF THE STATE OF THE ST

PRE-CAST CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR OPENINGS FOR DOOR FLOOR PIVOTS AND MECHANICAL ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.

GENERAL PRECAST NOTES:

COMPRESSIBLE JOINT FILLERS: ASTMD-1006 LATEST VERSION, CLASS E, CLOSED CELL EXPANDED NEOPRENE, TYPE S, CLASS SCE 41.

CONCRETE MASONRY UNITS: AUTOCLAVED AND PRESHRUNK, MAXIMUM LINEAR SHRBINGS OF 0.03 WHEN TESTED IN ACCORDANCE WITH ASTIN C4-28 LATE ST VERSION.

A MANUAL MASSIFE STATE AS CAPITRE TO THE SEE STATE AS CAPITRE TO THE STATE AS CAPITRE SHALL CONFORM TO ASTINCT IS LATER TO MACHINE DEVANDED SAG.

NAME OF A STATE OF CAPITRE SHALL CONFORM TO ASTINCT IS LATER TO MACHINE DEVANDED SAG.

FOR SHALL SEA AS SHOWN OF TAKE.

Welferbier, an Enseard to who change a control reproduction of the control reproductio

MATERALS: ALL MATERALS TO BE CLEAN AND NEW AND TO COMPLY WITH ARTICLES LISTED BELOW AS A MINIMUM STANDARD.

ROZEN WORK: DO NOT BUILD UPON IROZEN WORK. DO NOT LAY MASONRY UNITS WHICH HAPE A FILMOR FROST IRABOVE AND REPLACE & DERECTED. MASONRY WORK WHICH IS OBSERVED TO BE DAMMED BY FREEZING, DO NOT ALLOW GROUT TO REACH TENPERATURE BELOW 40 DEGREES UNTIL FULLY CURED.

CLEAWING CARL PERFORMANCE WARNEN WAS USED FOR THE WAS USED TO WITHOUT CLEAW WAS USED TO CLEAWING WAS USED TO WITHOUT CLEAW WAS USED TO CLEAWING WAS USED TO SHIP CLEAW WAS USED TO WAS USED TO SHIP CLEAW WAS USED TO WAS USED TO SHIP CLEAW WAS USED TO SHIP CLEAW WAS USED TO WAS USE

SHEAR WALLS SHEAR WALLS SHALL BE CONSTRUCTED PER STRUCTURAL PLANS
AND CENTER, REPROVABLEMENT SHALL BE PRA PASA AND SHEARWALL
SOCIEDLE. THEIR SHALL BE NO EXPANSION JOANS OR OTHER DISCONTINUES
SOCIEDLE THEIR SHALL BE NO EXPANSION JOANS OR OTHER DISCONTINUES
STRUCTURE AND SHEAR OF RECORD.

CAMPOSITE WALL CONSTRUCTION FOR WALLS DESIGNATED AS COMPOSITE, FILL
JONES BETWEEN MASONEY BROCK AND BLOCK WITH THPS FORWITE.
MINIMUM WALL TIE WINE TIE WAS 9. PERFOTHER COURSE. INMANUM: # 1500 PER

16. TYPICAL WALL REINFORCEMENT IS #4 @ 32" O.C., U.N.O. WITH MINIMUM SPLICE LAP LENGTH OF 24"U.N.O. 17. MASONRY DESIGNAND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACLASA, LATEST EDITION.

STEEL JOIST / DECK NOTES:

ALL STELL, OSSTST DER GERWACTEN DAN GESCHEN DER DACCOGNACE WITH THE STELL JOST NETTLE AND DER DANCOGNACE THEIR WEEK CONCENTRATION AND DER DANCOGNACE THE DANCOGNACE WITH A DESCRIPTION OF DER DANCOGNACE THE JOST WAS THE TILL CORRENT (1000 CONCENTRATION OF DER DANCOGNACE OF DANCOGNACE THE FACE OF MAN LEAST OF STREAM COLOURS OF BETWEEN CHE WAS THE PACE AND COLOURS DESIGN PROCESS. THE PACE AND COLOURS DESIGN PROCESS. THE PACE OF STREAM COLOURS DESIGN PROCESS. THE SEPONDE STREAM COLOURS DESIGN PROCESS. THE SEPONDE STREAM COLOURS DESIGN PROCESS. TO TOWN AND ASSET WITH COLOURS DESIGN PROCESS. TO TOWN AND STREAM COLOURS DESIGN PROCESS. TO TOWN AND SERVE STREAM COLOURS DESIGN PROCESS. TO DESIGN SERVE STREAM COLOURS DESIGN PROCESS.

ALL, OSTS SHOPET LEER WELLDON THEN STEELS SHOPET HERBERS PERS SPECIAL/CHONS, IMAGES NOTION OTHER STEELS SHOPET HERBERS, PERS SPECIAL/CHONS, IMAGES NOTION OTHERWISE OF EXPANSION OF REQUIREMENT OF A SHAPET SHOPET SHOPET WITH A CHORD WAS A SHAPET SHOPET SHO

F SHOWN ON PLANS, EXTEND BOTTOM CHORDS OF ALL JOISTS AND BOLT TO STIFFENER PAPER ON BEAM ORCLIP ANGLE L'AXA', ALL JOISTS ON COLUMN I. TO BE BOLTED CONNECTIONS.

 WHEE-VERCONCENTRATED LOAD IS PLACED ON THE STEEL JOSE'S AT LOCATY
OTHER THAN PARK OWING. THE STEEL ADDITS SHE LIBE SERVICEDED PER
OTHER THAN PARK OWNED THE LOAD SHE SHE LIBE SHE THE THE LOCATION OF THE FORM TLOOD AT
THE COSTOLAND BOTTEN PIET FOR THE LOCATION OF THE FORM TLOOD AT
THE COSTOLAND BOTTEN PARK. ABSOLUTELY NO HOLES SHALL BE DIRLIED OR BURNED INTO TOP OR BOTTON CHORDS OF OPEN WEB STEEL BAR JOISTS. 6. STEEL EQUIPMENT HANSERS ARE TO BE LOCATED AT JOIST PANEL POINTS.

REIMFORCING STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE MANUAL OF STRANDARD PRACTICE FOR DETAILING REINFORCED CONORETE STRUCTURES, ACI AATEST DETICAL. 8. THE MINIMUM REINFORCEMENT FOR WALLS SHALL BE AS PER ACI 318 CHAPTER 14, SECTION 14.3, UNLESS NOTED OTHERWISE.

WALLS SHALL BE DOWELED TO FOOTINGS, WALLS, BEAMS OR SLABS WITH BARS OF THE SAME SZEZ AND SPACHG AS THE WALL BARS, EXCEPT WHERE SPECIFICALLY NUMCATED OTHERWISE.

THE WORK WHO ADDRESS WHICH THE SETS WHEN THE STEEL PART.
WHEN TOKETHER AT SETS WE CAN TO REAL ADDRESS WE SETS WHO THE SHEEP WAS THE BURST WAY.
WHEN TOKETHER AT SETS WE SETS WE CAN TO RESERVE THE BURST WAY.
WHEN TOKETHER AT SETS WE WENT WOUND TO BE SERVARID SETS WHO AND SETS WHO WENT SETS WHO SETS WHO WENT SETS WAS SET WAS WENT SETS WHO SETS WHO WENT SETS WAS SET WAS WENT SETS WHICH WAS SET WAS WENT SETS WHICH WAS SET WAS WENT SETS WHICH WAS SET WAS WENT SETS WHO SETS WHO WENT SETS WHO SETS WHO WENT SETS WHICH WAS SET WAS WENT SETS WHO SETS WHO WENT SETS WHO SETS WHO WENT SETS WHO SETS WHO WE SET WAS WENT SETS WHO WE SET WAS WENT SETS WHO WE SET WAS WENT SETS WHO WE WAS SET WAS WENT SETS WHO WE WENT SETS WHO WE WAS SET WAS WENT SETS WHO WE WAS SET WAS WENT SETS WHO WE WAS SET WAS WELL WAS SET WAS WELL W

8. ROOF DECKTO BE 14/17 DEEP WIDE RIB, 20 GAGE GALVANZED NETAL, DECKTUN CONTINUOUS OVER 3 SPANS AINMAIN. ALL METAL, DECKS TO BE FARRICATED AI INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE AND SO CERTIFIE 10. ATA ANMALIN, CONCRETE WILLS SHALL HAVE M BARS @ 12" O.C. EA FACE EA WAY. THE METAL DECK.
THE METAL DECK.
THE METAL DECK.

INT SHALL BE AS PER ACI 318 CHAPTER 7,

THE MINIMUM TEMPERATURE REINFORCEME SECTION 7:12 UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL NOTES:

ALISTRUCTURAL STEEL SWALL BE AS FOLLOWS:

A ROSHUES SWALL BE SWALL SPORT SWALL SPORT SWALL SWALL SPORT SWALL BE SWALL SW

ALE FARRICATION AND FRECTION OF STEEL. TO BE IN ACCORDANCE WITH ALS.
SPECIALIZATION FOR DESIGN A FARRICATION AND INTERCITOR OF STRICTUREA. ST FOR BILLIAN ISS. LATEST BETTING IN LILESSO OTHERWISE SHOWN OFFRITAL COMPRECIONS SHALL BECLE OF ONE ALL OFFRITAL STRICTURES. AND COMPANIES TO THE COMPANIES OF THE ALL OFFRITAL STRICTURES. TO THE ALL OFFRITAL STRICTURES.

3 THES, CONTROLLED READ RELEASE AND TROORS HERE THE PRINCE OFF OF THE MANDER OFF THE THE MAND THE PRINCE OFF OF THE MAND THE PRINCE OFF OFF OFF THE MAND THE REPORTED RESIDENT ON THE THE MAND THE THE MAND THE THE MAND THE THE THE SHOW THE THE SHOW THE THE THE SHOW THE THE THE SHOW THE THE THE SHOW THE THE SHOW THE THE THE SHOW THE THE SHOW THE THE THE SHOW THE THE THE SHOW THE THE SHOW THE SHOW THE THE THE SHOW THE THE THE SHOW THE SHOW THE THE THE SHOW THE SHOW

ALL COPED BEANS TO BE DESIGNED IN ACCORDANCE WITH APPENDIX B OF MANUAL "ENGINEERING FOR STEEL CONSTRUCTION" PROVIDE RESIFERCY OF RELOURD ALL RE-ENTRANT CORNERS TO BE SHAPED, NOTCH-FREE, TO A OF AT LEAST 172".

GEBERRA, CORPACTOR SHALL MOVIDE AND PATOR SERVICES OF A RECORDERATE OF A REAL CHECKERY MACH CHECKERY MACH CHECKERY MACH CHECKERY MACH CHECKERY SECRETICATION MORE STRUCTURE, STEEL KYS BULDWASS TACKERY AS OTHERWISE BROCATED.

7. ALL ELEVATIONS ARE TO TOP OF STEEL BEAMS UNLESS NOTED OTHERWISE ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. AND ALSC SPECIFIC. WELDING ELECTRODES SHALL BE 670XX, Py=70 KSI.

FOR NATERIALS NOT SPECIFIED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, BUT REQUERED FOR A COMPILETE AND PROPER INSTILLATION, PROVIDE NEW MATTERIALS, FREST GUALITY OF THEIR RESPECTIVE KINDS. AS SELECTED FOR THE CONTRACTION, SINDS THE CONTRACTION OF THE REVIEW OF THE ARCHITECT AND THE OWNERS SEPRESENTATIVE.

HI CONTROLE REPRESENTATION WHIP ACTIVITIES IN ACCORDANCE WITH
A COORDETE TO BE RESENTATION OF ANY ACTIVITIES TO BE ACTIVITIES OF ANY ACTIV

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SHEET REVISIONS: No. DATE NATURE OF REVISION

5-13-22 ISSUED FOR PERMIT

I have prepared, or caused to be prepared under my supervision, the attached plans and specifications and state that, to the best of my knowledge and belief and to the extent of my contractual obligation, they are in compliance with the applicable Codes and Ordinances. STATEMENT OF COMPLIANCE have prepared, or caused to



Signature Date: 5-13-2022 License Expires: 07-31-2022

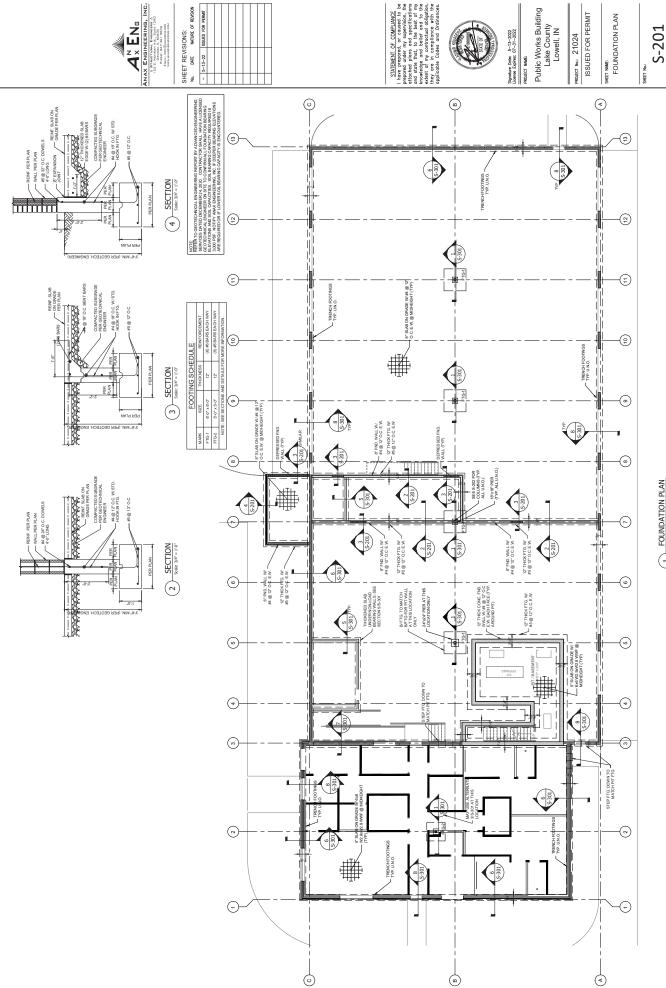
PROJECT NAME:

Public Works Building Lake County Lowell, IN

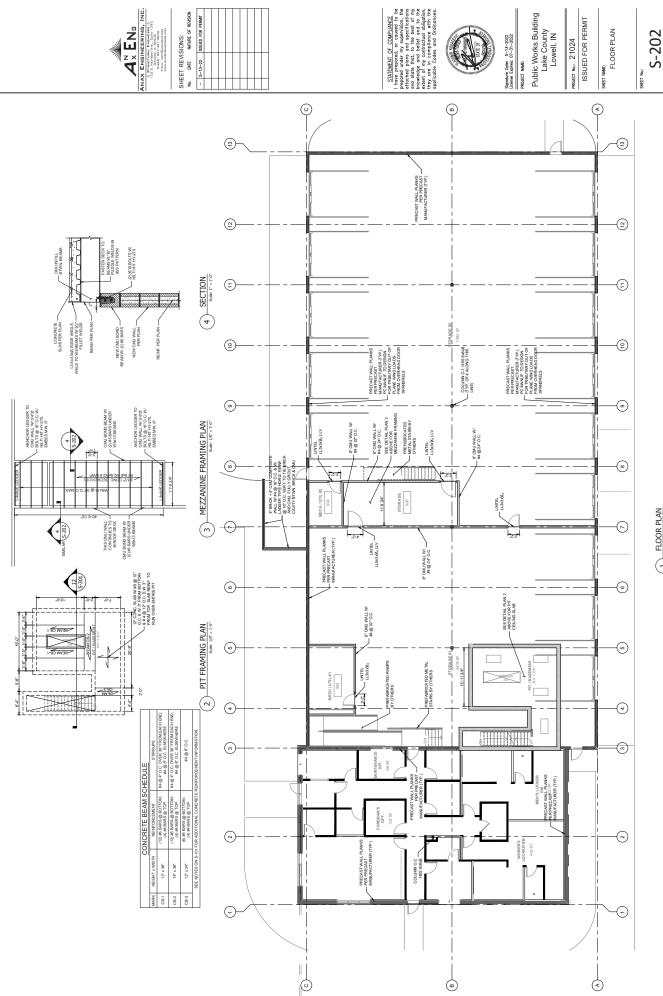
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GENERAL NOTES

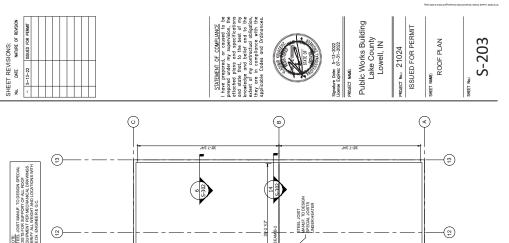
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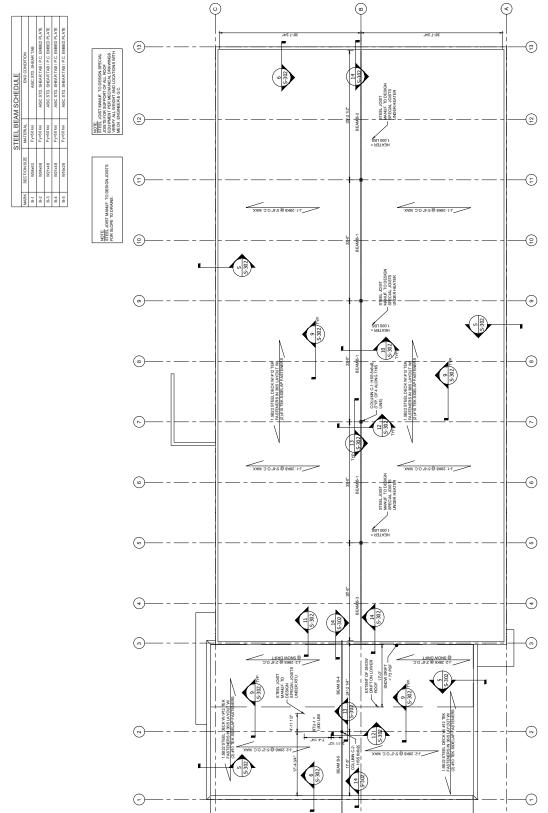


FOUNDATION PLAN Scale: 1/8' = 1'-0'



FLOOR PLAN Scale: 1/8" = 1.0"

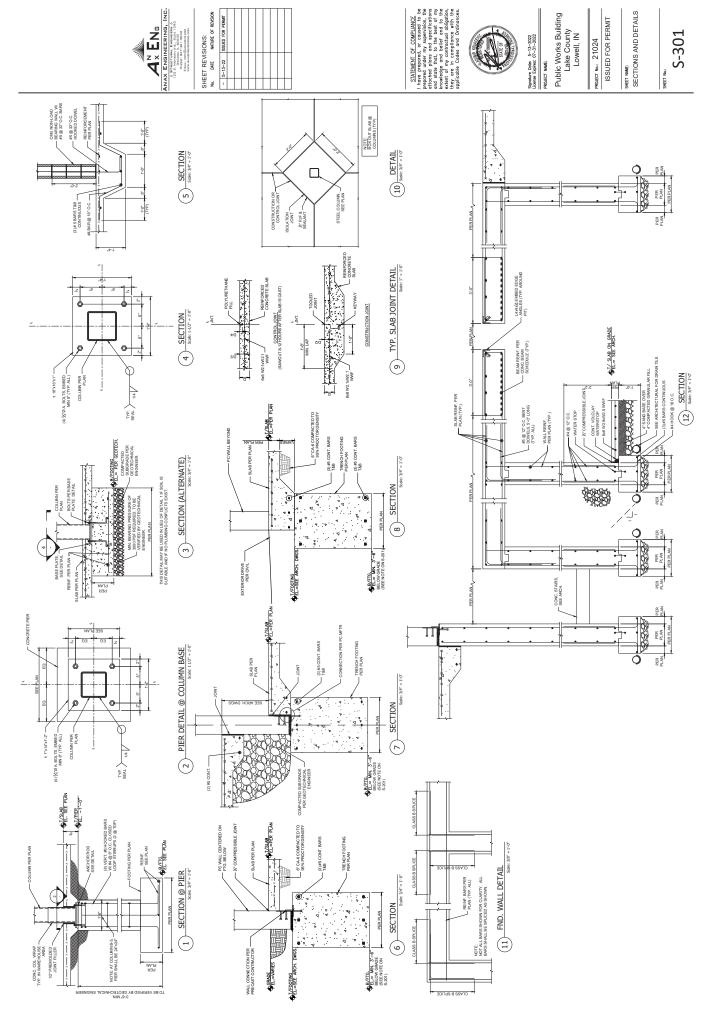




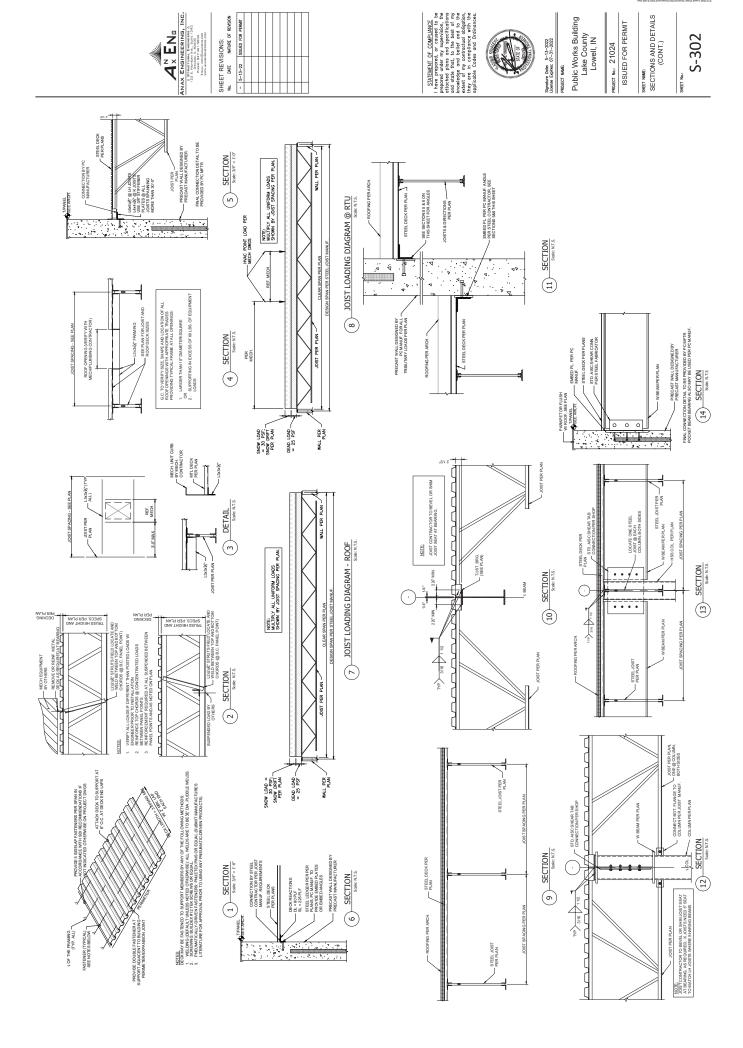
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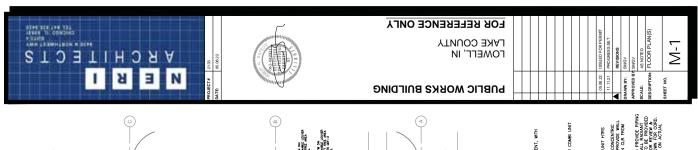
ROOF PLAN Scale: 1/8" = 1'0"

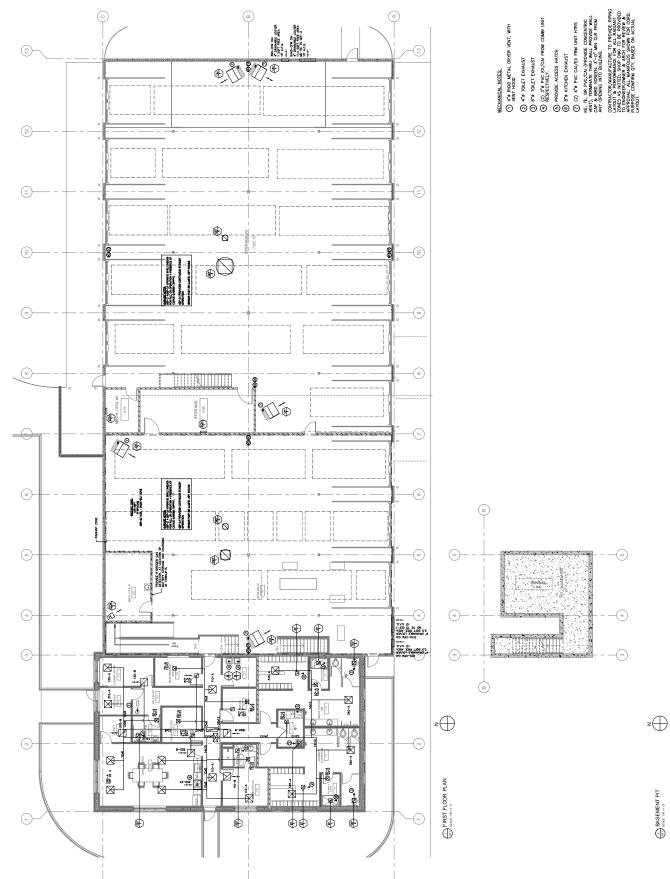
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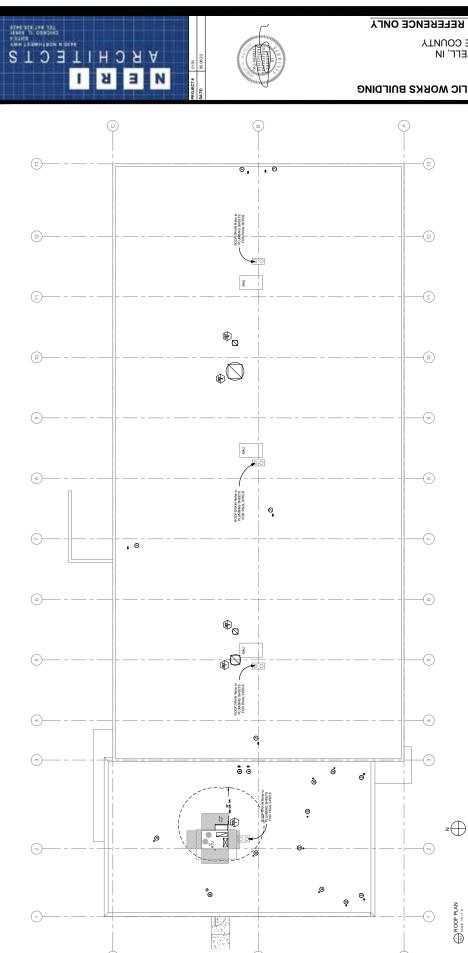






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LAKE COUNTY гомегг' и

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NOTES & DETAILS

PUBLIC WORKS BUILDING

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THERMOSTAT 7-DAY PROGRAMMABLE (G) W/GJJARD SENSOR

DOOR CRULE W'BUIT-IN FIRE DAMPER
IF LOCATION ON A FIRE DOOR.
LINEAR DIFFUSION W'BOOT. NO YOUME
AR YALVE
ITERMINA YALVE
ITERMINA SUNT-WRANBLE YOUNE

72

INPOCAL
SUPELY ARR DUCT
RETURN ARR DUCT
RETURN ARR DUCT
REMANY ARR DUCT
OUTSIDE ARR
CELLING DIFFUSER
OUBLIC FEET PER MINUTE
ABOVE FINISHED GRADE
ABOVE FINISHED GRADE

NOT ALL SYMBOLS ARE APPLICABLE TO THIS PROJECT

ELECTRIC DUCT HEATER

ROOF MOUNTED POWER OR GRAY ROOF VENTLATOR ROOF MOUNTED AIR INTAKE

UNDERCUT DOOR MINIMUM 1"

SIDE WALL SUPPLY REGISTER W/VOLUME

LOUND FEET PER HOUR COUBIC FEET PER HOUR CECEXCHANGE PIPE SUPPLY GEOEXCHANGE PIPE RETURN COMBUSTION AIR INTAKE ROUND BACKORAFT DAMPER TYPICAL.

H.P. MITC. M

PHASE
TECKOLITIONS PER MINUTE
THERMOSTAT
VOLTS
VOLTS
INCHES IN WATER
FORMAN

N	A
*OJECT#	2133
TE:	05.06.22

		CONTROL SYMBOLS		SYMBOL DESCRIPTION	DIGITAL INPUT	ANALOG INPUT	DIGITAL OUTPUT	ANALOG GUTPUT	CONTROL VALVE (ELECTRICAL)	CONTROL VALVE (PNEUMATIC)	DIFFERENTIAL PRESSURE SWITCH	S VARIABLE SPEED CONTROLLER	NOBMALLY OPEN	_		_	MOION OFENAIED DAMFEN
		_		SW	8			≪	0-8		(8)	VSC	(§)(3)@ —) ⊨	<u></u>
١		_	,	o.													
	DULE		27/14/14/14	- 1	Θ	Θ	Θ	Θ	Θ	Θ	Θ	PE.					
	SIZE SCHE	101	201	PRESSURE	0.04	0.04	0.04	40.0	0.04	0.04	0.04	CEILING Th	SCHEDULE.				
ä	SER NECK	26136	SIZE	ROUND	6,8	8.0	107¢	12*0	14"#	16"#	1	E LAY-IN	DIFFUSER				
'E DIFFUSE	SUPPLY AIR DIFFUSER NECK SIZE SCHEDULE	JEIO / CIA	SEC.	SQUARE	.9 × .9	8" × 8"	10" × 10"	12" × 12"	15" × 15"	1	8" × 18"	R SHALL B	COORDINATE WITH DIFFUSER SCHEDULE.				
FOR PAR TYPE DIFFUSER:	SUPPLY		CEM PANCE		50-175	175-275	275-375	375-600	052-009	750-950	950-1350 18" x 18"	(1) DIFFUSER SHALL BE LAY-IN CEILING TYPE.	COORDI				
	JIE -		277041110	KEMAKAS	Θ	Θ	Θ	Θ	Θ	Θ							
	SUPPLY AIR DIFFUSER NECK SIZE SCHEDULE	104	2	PRESSURE	0.04	0.04	0.04	40.0	0.04	0.04	CEILING TYP	SCHEDULE.					
à	SER NECK	12.0	3125	ROUND	ø_9	8.8	10%	12.0	14"0	16"¢	E LAY-IN	DIFFUSER					
PE DIFFUSE	AIR DIFFUE	ALLON CIAL	MECA	SQUARE	.9 × .9	_6 × _6	10" × 10"	12" × 12"	15" × 15"	18" × 18"	R SHALL B	COORDINATE WITH DIFFUSER SCHEDULE.					
FOR OWN TYPE DIFFUSER:	SUPPLY		CEM PANCE	_	20-100	100-200	200-300	300-450	200-750	500-1000	(1) DIFFUSER SHALL BE LAY-IN CEILING TYPE.	COORDI					
		REFER TO ROOM FINISH	COLUMN TAND OFFI FORES	SCHEDOLE AND REFLECTED	CEILING PLAN FOR PROPER		'R GRILLES, AND REGISTERS.							REMARKS	IE NECK SCHEDULE	E NECK SCHEDULE	MIND OF LEMOTE PARTY PARTY PARTY

A EST ME CONTROLLED AND A EST MEMORY AND A CONTROLLED AND

GRILLES, AND LOUVERS

DIFFUSERS, REGISTERS,

REFER TO DRAWINGS FOR:

1. DUCT SIZE ON RECK SIZE.

2. FACE SIZE – I.e.: 8"(24.24).

3. PATTERN (3-WKYARC) IF APPLICABLE.

4. CPM.

#346 318 148 131 +3168 1588 11 CONDISC +3168

MECHANICAL SYMBOLS PRESSURE GAUGE AND COCK STRAINER

DESCRIPTION
NEW DUCTWORK - WAD AIRWAY DIMENSIONS

VENTILATION SYMBOLS

ECL

TIHO

I

THERMOMETER
PRESSURE / TEMPERATURE SENSOR
ONLY

DUCT SECTION - RETURN OR EXHAUST DOWN

DUCT SECTION - SUPPLY UP/DN

INCLINED DROP W/RESPECT TO AIR FLOW INCLINED RISE W/RESPECT TO AIR FLOW

î

DUCT SECTION - RETURN OR EXHAUST UP

DUCT SECTION - SUPPLY DOWN

DUCT SECTION - SUPPLY UP

Я

A WOORSE WALDOWERT GUIDES

WITCHELE COMMETTION
PRESSINE RET. WALVE
RELET WALVE
GUIDE WALVE

FLEXIBLE DUCT VOLUME DAMPER WITH QUADRANT LOCKING

MOTORIZED DAMPER

TEMPERATURE SENSOR

HUMBOTY SENSOR

DIFFERENTAL PRESSURE SENSOR

ASSORTED STRONG

ABBREVIATIONS

VELOCITY SENSOR

LOUVER & SCREEN WKD GROSS OPENING

FLEXIBLE CONNECTION TO EQUIPMENT

3

	REMARKS	24X24 SEE NECK SCHEDULE	24x24 SEE NECK SCHEDULE	1 SLOT, 1SLOT, 2FT LENGTH, 6"	ORDINATE LOCATIONS OF ALL DIFFUSERS, REGISTERS, GRILLES AND LOUVERS WITH ARCH PRIOR TO I
			24×24	1_SL0	LOUVER
COAT	HSINIJ	BWE	388	BWE	ES AND
PC PRIME COAT	DAMPER	OBO	OB0	OBD	RS, GRILL
ă	FRAME	LAYIN	LAYIN	LAY IN	RS, REGISTEI
	MODEL	ILLIN OMNI	TITUS PAR	TITUS FTI-10	NS OF ALL DIFFUSE
	TYPE	SUPPLY	RETURN	SUPPLY	LOCATIC
	SYBMOL	٧	8	o	ORDINATE LOCA

		ᆈ	XHA	EXHAUST FAN SCHEDULE	FAN	SCI	TEDU	띰				
IN	MODE	AREA	25	a o	ā	NAN	JA 180		MOTOR	æ		SHAMBK
ō.		SERVED	5	9.		RPIM		£	RPM	VOLT	PHASE	
TEF/EF-1	Panasonic FV0511VK1	TOLET RMS	90	0.10	-	629	aa	16.1W	1205	120	-	NOTE 1
TEF-2	Panasonic FV1115VK1	Tollet RMS	150	0.5	-	832	aa	21.7W	904	120	1	NOTE 1
GEF-1	GREENHECK G180VG	GARAGE	3110	0.2	1	198	90	3/4	198	208	-	NOTE 2
GEF-2	GREENHECK G070VG	GARAGE	225	0.2	1	1334	90	1/15	1334	115	-	NOTE 2
GEF-3	GREENHECK GB330VG	GARAGE	5445	0.2	1	293	98	-	291	208	-	NOTE 2
GEF-4	GREENHECK G095VG	GARAGE	390	0.2	1	984	90	1/6	984	208	-	NOTE 2
KEF-1	OWNER PROVIDED	BREAK RM	×400	1	1	1	90	1	1	1	1	8,8

PENETRATION, WRED TO TIMER NOTE 2: BS,DS NOTE 3: PROWDE 4" VENT/WALL LOUVER

	FG - FAN GUARD LCD - LOUVER CONE DIFFUSER	CAS	PPUT OUTPUT REMARKS BTUJ (BTUJ (BTUJ)		- - (1) (2) (4) WALL BRACKET	260 252.2 (1) (2) (4) (5) (6) ISOLATION HANGERS	215 202.1 (1) (2) (4) (5) (6) ISOLATION HANGERS	155 144 (1)(2)(4)(5)(6) ISOLATION HANGERS
	- FAN G	CFM 6	EN P	245	400	4585	3865	2600
DULE	53		AMPS	-		90'9	90'5	- 3.73
SHE		l	₫₹	2.0	3.3	ı	1	-
ER S	H - HORIZONTAL TYPE P - PROTECTION TYPE		RPM VOLT PHASE KW	-	۲	3	3	3
HEAT	RIZONT	MOTOR	VOLT	208	508	208	208	208
Ħ	<u>유</u> 준	_	RPM	9.64 1400	1	1125	1075	1/8 1440 208
EΤ	Iα		Η	9.6A	9.2A	3/4	1/2	1/8
CABINET/UNIT HEATER SCHEDULE	TAL)		LOCATION	VARIES	VARIES	VARIES	VARIES	VARIES
	LFV - LOUVER FIN (VERTICAL) LFH - LOUVER FIN (HORIZONTAL)		DESCRIPTION	MARKEL F3422	MARKEL UH Series	MODINE PTC 260	MODINE PTC 215	MODINE PTC 156
	35		Š	ECH-1	ECH-2	UH-1	UH-2	UH-3

MCFS-MIN. CIRCUIT FUSE SIZE FLA-FULL LOAD AMP *CORD COLOR W/ARCH

User with therwestern: 0 4-wire service 0 for estraction room reports piece 12 and 0 sources of the control of

	3709100	NEWHOND
	TUCION	(Res
	idon	MODEL
		Н
	AL DATA	VOLT
	ELECTRICAL DATA	MOCP VOLT
		VOLT
	HEATING COIL DATA ELECTRICAL DATA	MOCP VOLT

THE EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THESE INSTRUCTIONS SHALL BE ON-SITE AND AVAILABLE FOR ALL INSPECTIONS.

MONITORING AND CONTROL SYSTEM SERIES CONTROL & AT-1130/LC-1112 GAS TRANSMITTER

AND INSTALLATION OF A COMPLETE GAS MONITORING SCOPE. WORK UNDER THIS SECTION OF THE SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND CONTROL SYSTEM INCLUDING ALL RELATED ACCESSORIES. GAS MGC2

SJBMITALS: FJIRNISH SJBMITAL DATA FOR THE FOLLOWING MATERIALS AND EQUIPMENT GAS MONITORING AND CONTROL SYSTEM.
ALL RELATED DEWGES.

PART 2 - PRODUCT SPECIFICATIONS 2.1 CONTROL PANEL A. THE CONTROL PANEL SHALL PR A-FATIN ATION SYSTEM AND DIGITAL

THE CONTRO, PARE, SAUL PROVINE CONTROLOR MOTIVED OF THE DESCRIPTED OS LEGERS IN THE ASSIGNED AREA AND CONTROL THE THE THIRD STEELS WAS DEFINED AND CONTROL THE CONTROL OF AND STANDARD STEELS WAS DEFINED AND COMPLETED TO ANY COMPLIBE ELECTRONIC ANALOGO OF DIDILY, DOTTOTS TO ANY COMPLIBE ELECTRONIC ANALOGO OF DIDILY, DOTTOTS TO ANY COMPLIBE ELECTRONIC ANALOGO OF DIDILY, DOTTOTS TO ANY COMPRISE AND CONTROL DEPOSIT OF ANY COMPRISED AND CONTROL DEPOSIT ANY COMPRISED AND CONTROL DEPOSIT AND

THE CONTROL PANEL SHALL ACCEPT UP TO 12 ANALOG INPUTS WTH FOUR (4) DIGITAL INPUTS. EACH ANALOG INPUT CAN HAVE FIVE (5) TRIP/SET-POINTS.

THE CONTROL SHELD COUNTRY FOR EACH COUNTRY FOR EACH CONTROL AND THE CONTROL SHELL SH

MONOXIDE (CO) SENSOR/TRANSM 2.2 A.

THE CASEN UNDER SYSSY/PRASTINES SALL, PROFEE UNDIVISING FOR THE CASEN UNDOUGHE CROSS AN ESSENCE AND CORRECT. THE UNDIVISING STATEM WE CONTRICT, PARKE IN ACCORDANCE WITH ALL, PARLICAGE CORDS AND STANDARDS.

THE SESSESS SALL OF ELECTROCHEMOLY FOR THE THE SESSESSY/PRASHING STALL, HAVE FULL-OF ESPONGED CROSS SALL, NOT BE TRANSPACTOR TO THE CONTRIBUTION OF SHALL AND THE TRANSPACTOR SESSESSY THAN THE CONTRIBUTION OF SHALL AND THE TRANSPACTOR SESSESSY THAN TH

THE SERSOR BROKE SALL BE CASED PUR CARRON UNDER A MORPHORESCRO-RESET BROKENTER SALL REBEITS. A REPORTIONAL 4-20 M. OUTNIT STANL. HE HENG EFFEKTS HE TRANSMITTE NAUL OFFICE STEERES SALL BE A 2-MEE. "HESTED AND SHELLED." 4-200M, 1-73 COMPUBATION. E. OFFICESSOR, TRANSMITTER SHALL CONFIDE FIRETER SOLO AND 10,000 SOLME TEET OF THE CARRON FLOOR SHALL SOLUTION SHALL SHAL

THE STORGS SURLEY AND ESTRETTY AND ESCRIPTION OF THE POP OF EARLY MENT OF AS STOR FEATURE AND A RESPONSE THE OF SO SECONDS TO A ROSK STEP CHANGE. HET LONG-THE UNDER SHALL NOT EXCELS UNDER THAN CASE O'S SHALL LOSS PER MONTH. HE PERVISEDE AMENT WENCH THE PROPERTINE SHALL HE I'V TO ZET CLO. GOS, AND PERVISEDEL AMBENT WHICH HE IS TO SES RE, NOW-CONDESING. HE SESSORS SHALL RECURS NO BEAUTH AS THE STORGS SHALL RECURS TO BEAUTH AND PROPERTINE SHALL HE SEPECEMENT OF THE PERSONS SHALL RECURS OF MONTH SENSORS SHALL RECURS THE PERSONS SHALL RECURS SHALL

THE SENSOR/TRANSMITTER PRINTED GROUT BOARD SHALL HAVE THE CAPABILITY OF ADDING UP TO (2) ALARM RELAYS WITH INDIVIDIAL SETPONTS FOR LOCAL CONTROL OR STATUS INDICATION.

THE EDISOR/TRANSMITTER SHALL BE CONTANED IN A NEMA 4X METAL ENCLOSURE. THE ENCLOSURE FOR THE SENSOR/TRANSMITTER SHALL BE INSTALLED ON WALLS OR COLUMNS APPROXIMATELY 5 FEET ABONE THE FLOOR.

THE OFFICE TOWN TROUT HE SESSENTIABLE TO BE ALL BE FOREST HER TO THE CONTROL, HERNELL STATESTEES OF AND ALARM CORPIEC, INCLUDION TIME CONTROL, HERNELL STATESTEES OFFICE O

THE SDIGGR/TRANSMITTER SHALL BE WRIT PERFORMANCE TESTED AND CREMED TO ANS/ALL 2075. THE COMPAZIORS MALL SUPPLY THE OLIVERORS SERES LG-1112 CO SDIGGRY/TRANSMITTER, BY INTEC CONTROLS INTROCES DODGE (VOL.) SDIGGRY/TRANSMITTER.

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NIROGEN DIONDE ESNESA/FINASAITTES SHALL FROWGE WONTORNG OF THE NITROEND DIONDE ENEEDEN IN DIESLE ENAMERT IN THE WANGE GARAGE AND CONTROL. THE VENTILATION SYSTEM VIA THE CONTROL PAREL IN ACCORDANCE WITH ALL APPLICABLE GODES AND WANGES.

THE SENSINGS SHALL BE ELECTRODELICAL TPE. THE SENSING TRANSMITTER SHALL HAVE PLUG-IN TICHNOLOGY TONE EASE OF THOMERSHOOM MA PEPALGEMENT OF BOTH THE SENSING ELEMENT AND THE PRINTED CIRCLIT BOARD. SCALD—STATE SENSING DEVICES SHALL NOT BE ACCEPTUALE.

THE SERGE PROCESSIAL BE C-LO FON HISTORIC DOLDER. A MISCH-DECORDER SHALL DECORDER FOR ALCHERIST FACURATION FOR THE THE PROFICED. REPORTED HAS A DECORDER FOR A DECORDER FOR A SHALL BE A 2-WE WITHING DAMPED HAS A DECORDER FOR A DECORDER A 2-WE SHALL BE A 2-WE WITHING DAMPED HAS A DECORDER FOR A DECORDER A 2-WE SHALL BE A 2-WE WITHING DAMPED HAS A DECORDER FOR A DECO

THE SERSES SHALL HARE AN LOCABLE. ON RESCULDING OF A LATI PROP OF EXAMON, GENEVALENCY OF 22K OF EXCENSION, AND A RESPONSE THILD OF LESS THAN 40 SEROODS TO A 40K STEP CAHARE. THE OF LESS THAN 40 SEROODS TO A 40K STEP CAHARE. THE SERVICE AMENDY WISHOUT STORED HOSE THAN 25 SORAL LOCAS FER WORTH. HE FERNISSISSEL MENT HAN 25 SORAL LOCAS FER WORTH. THE FERNISSISSEL MENT HAN PERSONSEL CHARMENT HAND TO SHALL RECOVER NO POINTIE WANTENANCE OTHER THAN PERSONS CHARMAND. THE VERY SHALL RECOVER NO POINTIE WANTENANCE OTHER THAN PERSONS CHARMAND. THE VERY SHALL RECOVER NO POINTIE WANTENANCE OTHER THAN PERSONS CHARMAND. THE SERVICE AMENDATION THE SERVICE AND A THE WANTENANCE AND A THE WANTENANCE AND A THE SERVICE AND A THE SERVICE FEBRUARY HORRS WORALL FORDER. WOR AND A THE WANTENANCE AND A THE SERVICE FEBRUARY HORRS WORALL FORDER.

OUPUT SIGNAL FROM THE SENSER/TRANSMITTER SHALL BE A DIRECT INPUT INTO THE DIGITAL CONTING, BULLDING AUTOMATION SYSTEM, ALL CONTING, BALL ALARA CONTING, INCLUDING THE ELAY TENCTIONS TO PREVENT HAITING OF VENTLATION FAMS SHALL BE A PART OF CONTING, PARE, THE SERGE/TRANSMETTER SHALL BE CONTROLED IN A DISA, AS ENGOSSEE. THE PICKOSSEE WITH THE SENGRY/TRANSMETTER SHALL BE MISTALLED ON WALLS OF COLUMNS EPPEROAMENT, IS 17, ABOY THE FLOOR.

HE SENGRY/MASSETTER SHALL HAVE THE CAPABLITY OF ADDING UP TO (2) RELYST AS A SEPARATE COMPONENT TO THE PRINTED GROUP BOADO OF THE SENGRY.

F THE LEG. OF NOZ REJUGES 2 PRY THE LOW JALRON SHALL ACTIVITE. IF THE LEGE, OF NOZ MOSESSES TO 5 POIN THE WIGH ALARM SHALL ACTIVITE. THE CONTROL OF SHALL SHAPT THE COVERED SHALL SHAPT THE MOST SHALL SHAPT THE MOST SHAPE SHALL SHAPT THE MOST SHAPE SHALL SHAPE THE CONTROL SHAPE SHAPE SHALL SHAPT THE MOST SHAPE SHALL SHAPE SH ø

2.5

PART 3.1

INSPECTION: GENERAL: EXAMINE AREAS AND CONDITIONS UNDER WHICH GAS MONITORING AND CONTROL SYSTEM SHALL BE INSTALLED. RELATED ITEMS SHALL BE EXAMINED AS WELL.

CONTROL SEQUENCE: THE CONTROLLER SHALL OPERATE ACCORDING TO THE SPECIFICATIONS RECOMMENDED BY THE MANUFACTURER, OPERATION SHALL BE AS FOLLOWS.

3.2

THE CONTROLER SHALL BE CLIBEARTO TO THE ESTENS STEPH-FORM SERVICE OFFICENS OFFICE OFFI

THE SENSOR SHALL CONTINUE TO TRACE THE SPECIFED GAS AND WILL NOT DISABLE THE ALARM UNTIL THE GAS LEVEL IS DROPPED A SOMPICANT PERCENTAGE BELOW THE ALARM SET-POINTS.

OPERATION AND MANUTENANCE MANUALS. THE OPERATION AND MANITENANCE MANUALS SHALL CONTAIN ALL INFORMATION NECESSARY FOR THE OPERATION, MANUTENANCE, REACCEDENT INSTALLATION, AND PARTS PROCUREMENT FOR THE RAITE GAS DETECTION SYSTEM. THIS DOCUMENTATION SHALL INCLUDE SPECIFIC PART MANUERS.

AS-BULT DOCUMENTATION: FOLLOWING PROJECT COMPLETION AND TESTING, THE CONTRACTOR WILL SUBMIT AS-BUILT DRAWNGS REFLECTING THE EXACT INSTALLATION OF THE SYSTEM.

CURRATIVE CHREATION SHILL WITH ENGRESSIVE TO REPRESENTED REPORT THE USE SHOWN THE WEST SHOWN TO HE CHREATION WHICH THE WEST SHOWN TO HE CHREATION HE SENSEY TO HE CONTINUE AND HE CHREATION HE CHREATION HE SENSEY TO HE CONTINUED HE STREAM WHICH HE CHREATION HE SENSEY TO HE CHREATION HE SENSEY TO HE CHREATION HE SENSEY CHREATIO

PERMIT NOTES: .. EQUIPMENT NOISE LEVEL NOT TO EXCEED 55 DB AT THE LOT LINE.

AND CONNECTIONS SHALL BE REMOVED FROM THE AIRSTREAM OF ALL MECHANICAL ALL EXPANSION VALVES, DEVICES A EQUIPMENT AS PER LOCAL CODES.

THE RECAMBLE, DOTRICOR SHALL FINENS AND BRIGHT, A SERT PRELET, WAY, ESSENDED TO RELETER AND OPERERENT HE BELLIDE OF EXCESSES, REPRESSES, WHIN HE DRECT DEPARSON SYSTEMS. THE PRESSESSE WHIN HE DRECT DEPARSON SYSTEMS. THE PRESSESSE WHILE OF THE DRECEDING SHALL BE SET IN A DO SAN OBJAIL BE REALLED OF THE OWNERSON AND USFIREM OF THE COMPRESSON BUILD'S THE HE PRESSESSES AND USFIREM OF THE COMPRESSON BUILD'S THE HE PRESSESSES AND USFIREM OF THE COMPRESSON BUILD'S THE PRESSESSES OF ALL THE DESCHARGE OF

ALL FRESH AR INTAKE OPENINGS SHALL BE A MINIMUM OF 15'-0" (CHICAGO) 10'-0" (OUTSDE CHICAGO) AWAY FROM ANY EXHAUST OR POINT OF CONTAMINATE DISCHARGE.

THE EQUIPMENT IN THE YENTLATING AND HEATING SYSTEM SHALL BE SUFFICIENT TO MANIAM 72 DECREES F WITHIN THE MERK SERVED AT ALL THES WHEN 33-1/3 PERCENT OF CODE REQUIRED AR IS SUPPLIED FROM OUTDOORS AT -10 DECREED. F.

ALL DUCTWORK SHALL BE IN ACCORDANCE WITH "SMACNA" LOW VELOCITY DUCT MANUAL AND "ASHRAE" RECOMMENDATIONS.

CLEARANCES FOR FORCED AIR FURNACES MUST CONFORM TO MANUFACTURERS REQUIREMENTS (OR SHOW CLEARANCES ON THE IDRAWINGS).

VENTILATION NOTES:

VOLUME DAMPERS OF LOCKING TYPE SHALL BE PLACED IN EACH FORCED WARM AIR RUN.

ALL DUCTWORK MUST BE GALVANIZED STEEL OR STAINLESS STEEL, INTAKE MUST BE INSULATED.

E THE REGISCH MIGHES A FEBRAG GENEROR THE CONTRICTOR STALL GLIBERATE THAT THE PERM CHARGE VERY SERVICE AS IN THE CHARGES A FEBRAG GENERALING OF AN WILL BE OF THAT CHOSTRICTION. AND THAT ALL SOMESES OF AN CONTRIBANTION FROM THE PRESSES OF AN CONTRIBANTION FROM CONTRIBANTION FROM THE REPORTANT OF SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS ARE SHOWN ON ELECTRICAL DRAWING(S).

GENERAL COORDINATION NOTES:

LOUI TANCE CONTRACTOR SHALL SHIP STREAMING SHE HER FOR BEINDIN, CAMMINE SORE HOUSE OFFICE OF COURTING OF COURT OF COURT OFFI COURT O

WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.

BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCIRATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTIOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SZES, SYSTEM VOLTAGES, QUANTIES AND EXTREM FOR WAY.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND MELENCH, DAWNASS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND MAKET ON THEIR WORK.

WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING SPROUTINES ARCOURED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXCUSION OF THE WORK.

REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.

CUTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE, GENERAL MECHANICAL NOTES:

ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.

MEDIUN/LOW PRESSIRE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACHA STANDARDS. PROVIDE MANUAL DAMPER ON ALL LOW PRESSIRE SUPPLY BRANCH TARE-OFFOF DUCTWORK.

ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.

DIFIUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING, CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT OF CELLING TO DETERMINE FRAME TYPE. BLANK-OFF WITH BLACK PAINTED PANEL WHERE SHOWN. DO NOT PAINT EXPOSED DUCTS OR REGISTERS.

PROVIDE UL APPROVED FIRE DAMPERS. PROVIDE UL APPROVED FIRE DAMPERS IN ALL DUCT PENETRATIONS THRU FIRERATED ASSEMBLIES WHETHER INDICATED OR NOT.

FLEXIBLE DUCTWORK: NOT TO BE USED

10. PROVIDE LINNING ON ALL SUPPLY AND RETURN AIR DUCTWORK AT A MIN. OF 15'-O" FROM THE HEAT PUMPS/FURNACES.

INSTACE ALL DOCUMEN CACHE REW NO SEPEN FOR ECC COLUZION SHALLE ENTERALLY NEGLICIDA NEGLICIDA AND SEPEN AND SHALLE SHALLE

ALL LORGIDIONA, AND TRANSFERS, DATAS, SALEN AND CHERCITONS THE ALLICE, AND DIVIDELLELL DIOUS SHALL BE CONSTRUCTION STRANDARS—LEFT, AND FLEELE, AND MAINT FRENCE.

CONSTRUCTION STRANDARS. ALL DISTRICT CONSTRUCTION STRANDARS—LEFT, AND FLEELE, AND MAINT FRENCE.

AND CHERCIAN STRANDARS. ALL DISTRICT CONSTRUCTION, AND PROSECUES SEASON, AND CONSTRUCTION STRANDARS. AND CHERCIAN STRANDARS. AND CH EXCEPTION: CONTINUOUSLY WELDED AND LOCKING-TIPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES THAN 2 INCHES OF WATER COLLUM (500 PA) PRESSURE CLASSFICATION SHALL NOT REQUIRE ADDITIONAL

DUCTS SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED TO FEET AND SHALL BE IN ACCORDANCE WITH SUAGNA HUAG. UNCL'CONSTRUCTION STANDARDS—HEALT, AND FEEDELE, FLEXBLE AND OTHER FACTORY—ANDE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE ALMOH-FOUNDERS.

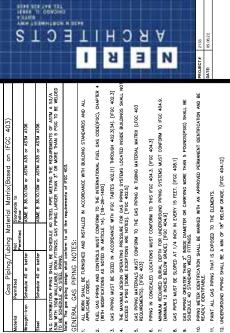
ALL EQUIPMENT AND APPLANCES, INCLUDING THE AIR CONDITIONER, WATER HEATER AND FURRACE, SHALL ACCORDANCE WITH AIR THE HEAVILY STREFER'S INSTALLATION INSTRUCTIONS. A CORP OF MANUFACTIVER'S INSTALLATION INSTRUCTIONS. A CORP OF MANUFACTIVER'S INSTALLATION INSTRUCTIONS WAS THE TIME OF INSPECTION.

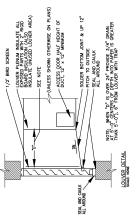
ALL SYSTEMS >4.5 TONS REQUIRE ECONOMIZER FAULT DETECTION AND DIAGNOSIS. PER IECC C403.2.4.7 ō ō

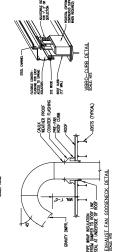
INSULATE ALL PIPING PER TABLE IECC C403.2.1

SYSTEM ADJUST AND BALANCE PROVIDE TEST AND BALANCE REPORT PER IECC C408.2.5.3

PROVIDE DRAIN PAN FOR ALL UNITS THAT MAY CAUSE DAMAGE TO BLDG COMPONENTS AS A RESULT OF OVERFLOW FROM CONDENSET REMOVAL (COCOUND COLL OF RELE BIRGING EQUE), EXCEPTION IF THE APPLANCE AUTOMATICALLY SHUT DOWN IN EVENT OF STOPPAGE IN CONDESSATE DRAINAGE SYSTEM,





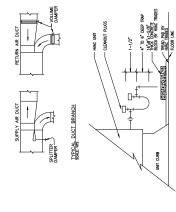


FOR REFERENCE ONLY

PUBLIC WORKS BUILDING

LAKE COUNTY

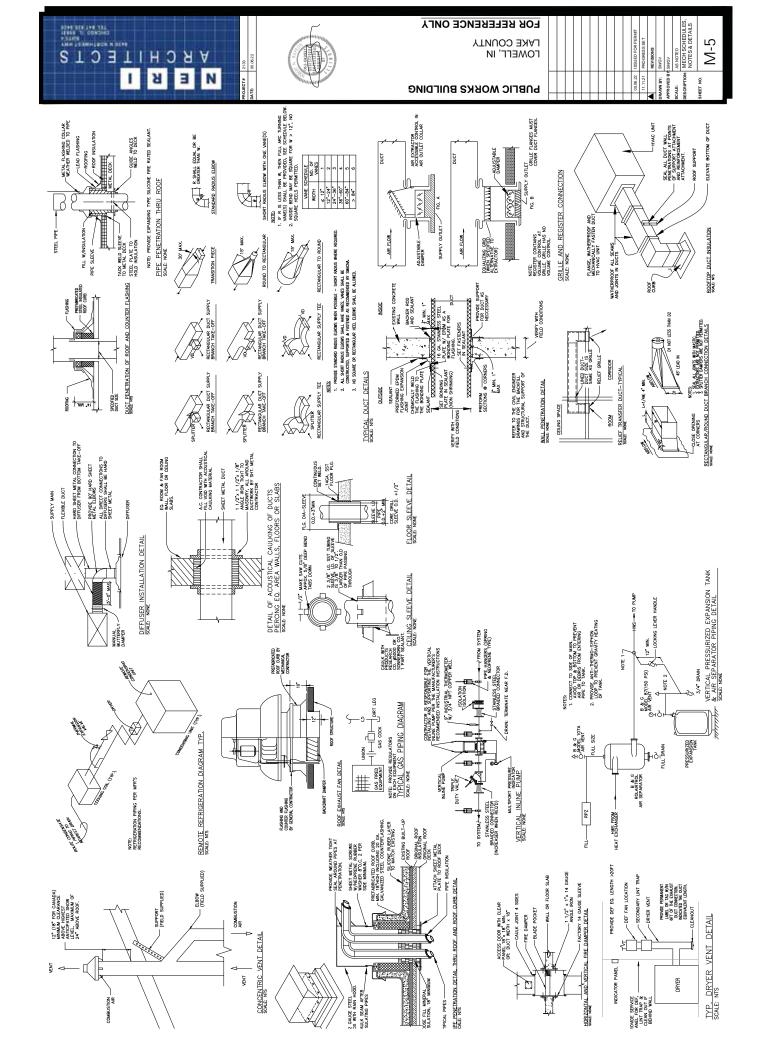
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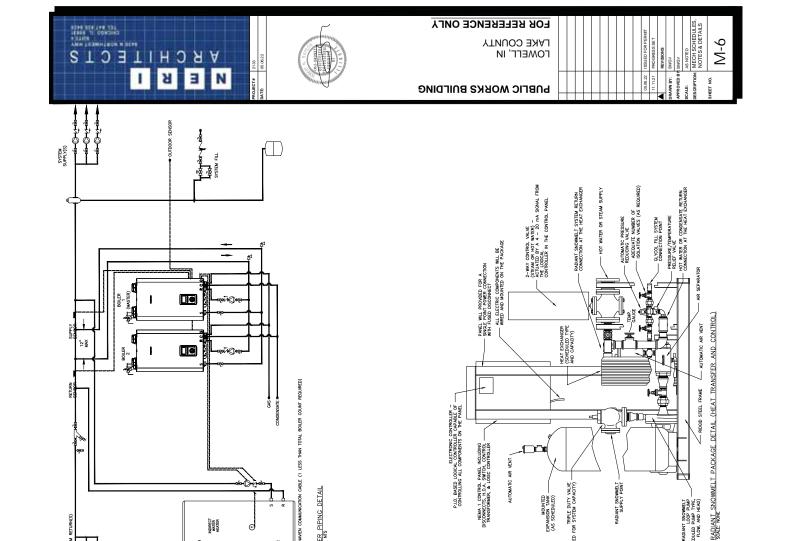


AHU/RTU UNIT CONDENSATE DRAIN DETAIL

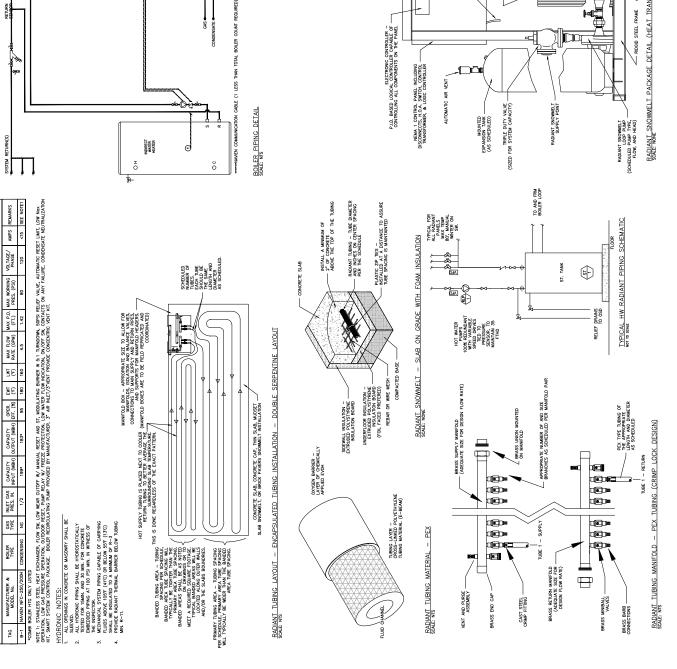
MECH SCHEDULES NOTES & DETAILS

M-4

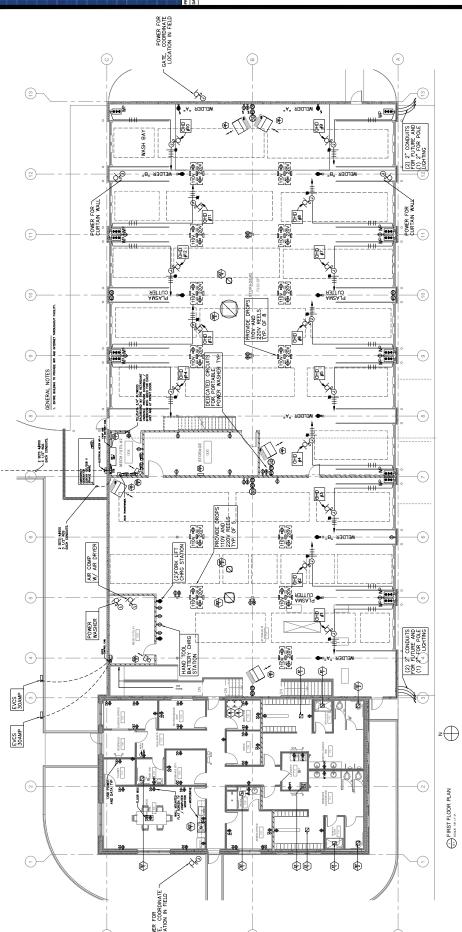


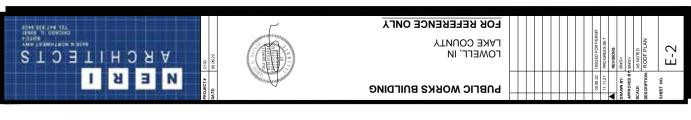


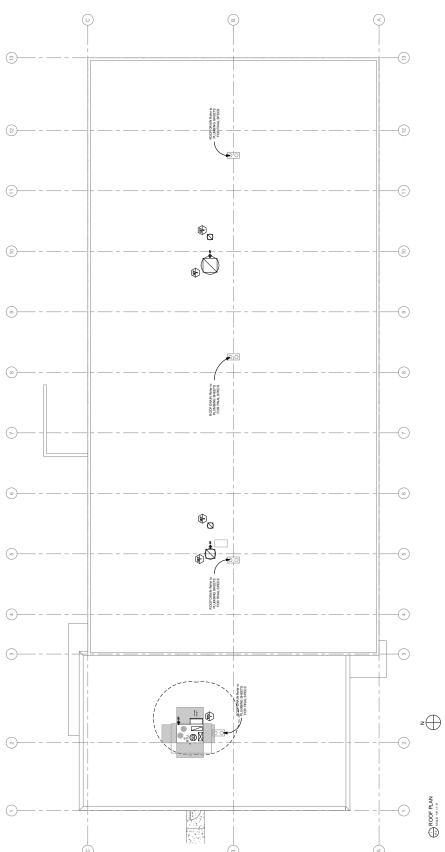
RIDGID STEEL FRAME



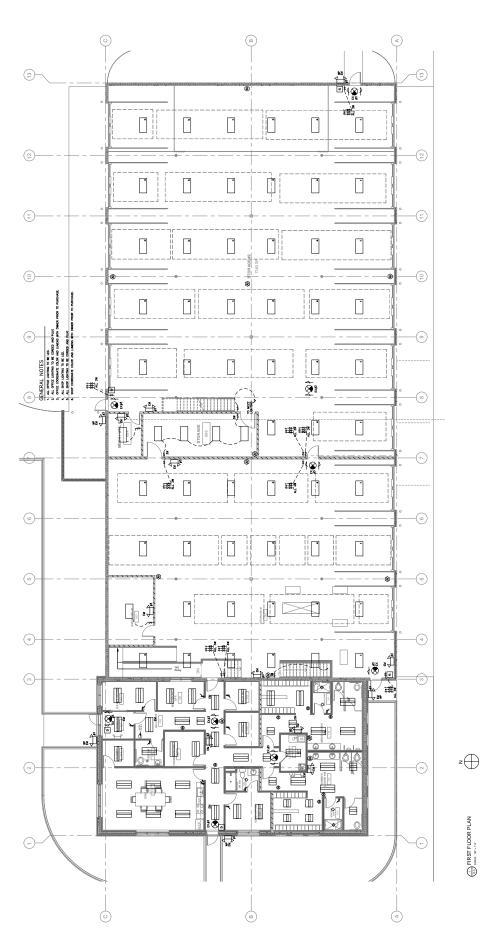




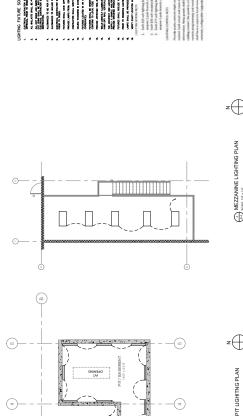


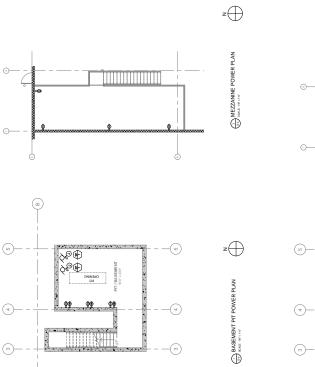


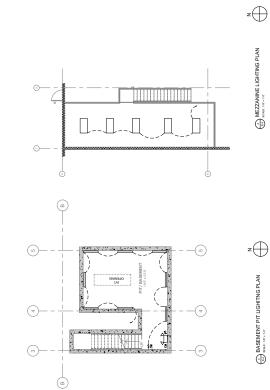












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LAKE COUNTY LOWELL, IN					ISSUED FOR PERMIT	PRO GRESS SET	REVISIONS	SMGV	NDWS:	AS NOTED ELEC SCHEDULI NOTES & DETAIL	E-5
PUBLIC WORKS BUILDING					05.06.22	11.1121		AWN BY:	PPROVED BY	ALE: SCRIPTION:	SHEET NO.
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CENTRACTOR STATE STATE, CREAM AND THE PART PRIZE STATEST, REPECTIONS, TAXES, LEDGESS, AND RETS DO ALL CONNEMBER TO ARREST PROBLEMS TO A REQUEST OF ALL COUNTRACTOR SHALL PREPARE THE DESCRIPTION AND COUNTRACTOR SHALL PREPARE THE RESPONSIBILITY COMMENCES THE PREPARE THE DESCRIPTION OF ALL SHAPE STATES AND UTILITY COMMENCES THE THE PROPOUNT.

HE CANTACTOR SHALL TARE ALL STEPS NECESSARY TO BISJARE THE SAFETY OF THE CLERY'S EAPLOTEES, BUILDING EJAPLOTEES AND OLJESTS AS MERLL AS THEN OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPALBYT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK. CONTRACTOR'S DRAWING REVIEW THE CONTRICTOR SULL PRODER THE COLOURTE EXCENSE WESTALAND OF MENER AS RECORDS IN THE CONSTRUCTION COLOURTS, EMPOY TO COMMISCISCUS, THE CONTRICTOR SALLS SHAFT FOR STOLE AND ANY SECURES OF WINN, LWFS, LHCTHO, OF PROCEEDING, NOW COMMISCISCUS, THE CONTRICTOR SALLS SHAFT FOR STOLE OF PROCEEDING, NOW COMMISCISCUS OF THE MENERS AND ANY METRICES FOR AN

AL, CUTING, DRILING AND PATCHING OF MASONRY STEEL OR IRON WORR BELONGING TO THE BUILDING MIST BE DONE BY THIS CONTRACTOR IN MODER THAT HIS WORK MAY BE PROPERTY INSTALLING. BUT MADDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE MACHIET/PROMER ON THEIR REPRESENTATION.

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SACLED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER

FOR INSTALLATION.

FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY GENERAL ELECTRICAL SPECIFICATIONS (APPLICABLE TO ALL ELECTRICAL DRAWINGS)

INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER

PROVIDE MEANS TO FURNISH AND INSTALL.

ALL PRETATIONS IN WALLS, FLOORS, OR CELLINGS SHALL BE SUTABLY CLOSED UP AND SEALED WITH A PRESATING COMPOUND LISTED IN THE MOST RECENT FACTORY WITHAL RESEARCH CORPORATION (PARC) APPROVAL, DUIDE, ONLY PRODUCTS WANTEACTURED BY HATH SHALL BE PRETENED (NO SUBSTITUTIONS). FIRESTOPPING

DODAGET STATES (SECREDAD DESCRIPTOR) DESCRIPTOR STATES (SECREDATE WERE THAT WAY RE FREYENDED LIKET THE CONTROCT DODAGETS BLI, MY RESERVEY, UNEST HE DESCRIPTOR STATES (SECREDATED SECREDATED SECREDATE

HE WERS WALL GORDEN WITH ALL ASSELL COLOLL MUNICIPAL, AND MUNICULES, THE WINGHINGER, THE ROUTINEST OF THE PROPERTY OF BELLINES COLOL FANNES, AND ALL DITTER LOCAL OF MUNICIPAL BELLINES AND DEPARTMENTS WHICH HAVE THE PROJECT PROLINES OF THE PROJECT PROJECT OF THE PROJECT PROJECT PROJECT OF THE PROJECT PROJET PROJECT PROJET PROJET PROJECT PROJET PROJECT PROJET PROJECT PROJECT PROJEC

INTERPRETATION OF THE DOCUMENTS.

COORDINATION

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THE CONFLOCK SHALL RROOK TRACERS FROM AN ULTIMOTE OF THE NEW CHORN CONFLOCK TRACERS. ULTIMOTE SHALL RELIT IN LESS THE COLU. OF UTTO-WAT TRACE LIKET TO SHALKE ELT IN A MANUAL OF ITTO-RE FROM. INFROMEN CHAINE SHALL BE LIT IN LEGATE THE FORM CHAINED SHALL BE LIT IN LABORATE INCHING IS COMMENTED FROM THE CONFLOCK TRACE SHALL DESCRIPTION THAT THE OWNER MANUAL HARDON. 15. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE WICHME-PRINTED, PRESSURE SENSITINE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PARELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

16. LITHITY COMPANY COORDINATION THE COMPANY COMPANY COORDINATION COMPANY.

WERREWOOD WITH LOATE SPACES WERE ELECTED WAS CARELINES ENTER CHEMICAL SPACES OF SPACES 17. EXCAVATION/UNDERGROUND UTILITIES

THE ELECTION LANGUAGE OF DIAGNAMENT IN ANTITION AND ALL HOT IS CALLED, TO INS DETITION OF ONE OF THE REASONESS AS EXPORT
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ASSOCIATION OF THE CALLED AND ALL CONTRACTOR OF THE CALLED AND ALL CONTRACTOR OF THE CALLED AND ALL CALLED AND ALL

THE COPRICTOR SHALL CHEERLY DAME TO CONFIDENCE WITH STATE TO LOWER THERESES, AND LOSE A THROUGH SHOP OF THE COMMONS UNCH WHICH CONSTITUTION WILL BE WILLDERFOR THE SAMESION OF A PROPOSE, WILL BE CONSTITUTION AS EXCEPTED THE SAMESION OF A PROPOSE, WILL BE CONSTITUTION AS EXCEPTED THE SAMESION OF A PROPOSE, WILL BE CONSTITUTION AS EXPENSED THE SAMES OF THE

SITE EXAMINATION

ALL PRESENCES IN WICH WAS COLDES FOR THESE COLDUCTS, SAULE, REPORTING THIS HOUSE THE WITH THE SECURITY CHARLES AND CHARTITY, CHARLES WERE THE PART SHOULD THE PRESENT AT THE PART SHOULD THE THE PART SHOULD THE CELLIO CHART FOR EACH SHOULD THE SHOULD THE CELLIO CHART FOR EACH SHOULD THE SHOULD THE CELLIO CHART SHOULD THE PART SHOULD T

UNESS NOTE OFFEWER, ALL WEE AND CABLE SHALL BE 600-NOT COPPER CONDUCTORS WITH TIPE "THAN/THAN" INSULATION, MINAMUM WIFE SZE SHALL BE, THAN OFFE USINITIES AND POWER OFFICITS NOTE OFFICIAL CONTING LOCALITY. PROVIDE CONDUME FOR CIRCUITS PER THE NEED, UNESS SECREDILLY MOTED OFFICIARES IN THE FLANS, ALL CHRUNG SHALL BE (2) JFT. AND (1) #17 G. NO JyFT C.

120/208V CABLING FROM PANEL TO ELECTRICAL LOAD SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED: BRANCH CIRCUIT CABLE SIZE SHALL BE ADJUSTED BASED ON THE CONDUCTOR LENGTH, AS INDICATED BELOM:

277/480277/480V CABLING FROM PANEL TO ELECTRICAL LOAD SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:

LESS THAN 100 FEET. USE #12 AWG MINIMUM FROM 100 TO 200 FEET, USE #10 AWG MINIMUM FROM 200 TO 250 FEET, USE #8 AWG MINIMUM

3

CABLE SIZING

ALL DATA AND TREPHONE DITLET WIRNG SHALL TENNANTE IN THE DATA/ANDF ROOM, ALL DATA AND TREPHONE WIRNG SHALL BE PROVIDED BY THE ELECTRICAL CHRACKING AND SHALL BE NISTALLED IN CONDUIT, BECHRICAL CONTINCTOR SHALL PROVIDE CONDUITS FOR DATA AND TREPHONE OTHERS AS FOLLOWS. FROM 0 TO 150 FEET, USE #12 ANG MINIMUM FROM 150 TO 250 FEET, USE #10 ANG MINIMUM FROM 250 TO 300 FEET, USE #8 ANG MINIMUM

COMMUNICATIONS WIRING CONDUIT SIZING

THE COURT PROBLEMS ROUTID BE ON LOADBRAINT WHEN ETH. DOCURIOS SHILL CHIFF TO PROPERCE PLOT COORDINATION WITH ORDER
FOUNDERS FOR THE RESPONSE FOR THE RESPONSE FOR COORDINATION WITH ORDER
FOUNDERS FOR THE RESPONSE FOR THE RESPONS 47 CABLES-3"C 63 CABLES-3 1/2"C 81 CABLES-4"C 13 CABLES—1 1/2°C 21 CABLES—2°C 30 CABLES—2 1/2°C CONDUIT/RACEWAY SYSTEMS 3 CABLES-3/4°C 5 CABLES-1°C 9 CABLES-1 1/4°C

ALL ANTERALS AND EQUIPART PROVICED IN THIS WORK SHALL BE NEW AND SHALL HANT THE APPROPRIATE ULLISTIMA AND/OR THA APPROVAL. INSESS NOTED OHERWISE, DISCORDED/SPACES SHALL BE NOVA-FORED HEAVY-DUTY 600-YOLT THYE. INDOOR ENGLOSINES SHALL BE NOVA-FORED HEAVY-DUTY 600-YOLT THYE. INDOOR ENGLOSINES SHALL BE NOVA-FORED HEAVY-DUTY 600-YOLT THYE.

ALL MECHANICA COMPANY IN THE WENALLIDE FOR THE PROBENT SCHOOLTICE.

COMMINITE THE EXPEL LICKLINN AND NATIFE OF ANY RECIVED ELECTRICAL, CONNECTION TO SEE PROPERTY SCHOOLTICAL SCHOOLTICAL

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MISCELLANEOUS SUPPORTING MEMBERS

ALL AMPLES, ANABLES, AND FORMER WESTLANDERS, STEEL, BOTS, THE PRESENDEN OF EFFECTIVE OF STEPLING AND STEEL OF STEPLING AND STAFFES AND STEPLING AND STAFFES AND STAFFES

GENERAL ELECTRICAL NOTES
(APPLICABLE TO ALL ELECTRICAL DRAWNGS)

1 EMPREADY'S SIGNE FEDUNDES SHALL BE 7 NOVES BY 5 HOHES AND PER DAY SIGNED. USE EXITS SIGNED STORES SHALL BE WARED WITH A PANALY SHORE WARED WITH A PANALY SHORE AND LEGIBLES SICH STATING, LECTRICAL ROOM SHALL BE WARED WITH A PANALY SHEEL AND LEGIBLE SICH STATING LECTRICAL ROOM OF SHALLAR APPROVED WARRING. 3 THE DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRCUIT ORIGINATING ON A SMITCHEMOND OR PARTIEDANG THATLE BE LEGIELY AND DISHERY MARKET TO NOICHTE ITS PURPOSE UNIESS SLICH A PURPOSE IS CLEARY FUNDERT.

5 ALL NEW ELEVATORS SHALL BE QUIPED WITH EMERGENCY KEY OPENING DEVICE AT ALL LUCATION AND SPECIFIC TYPE OF DEVICE SHALL BE APPROVED BY THE FIRE DEPARTMENT. EXT SESS SHALL BE LILLIMINETED ALT, TIMES AND HAVE DEFECTIONS FORTER BUCKLOS.
 MERCHER LOCATION, AND EFFECTIVENESS OF DISCRESSY LIGHTIC AND FRE ETHINGENESIES WHERE LOCATION, AND EFFECTIVENESS OF DISCRESSY, LIGHTIC AND FRE CONTINUES OF DISCRESSY, CHARGES OF DISC

A CONTRACTOR OF THE CONTRACT ON THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT ON THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT ON THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT ON THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT ON THE CONTRACT OF THE CONTRACT ON THE CONTRACT O IF THE ELEMATOR USES AN AUTOMATIC DALER, THE TEN DIGIT NUMBER BAT-500.3470 SHALL BE USED. THE INDIRECTIVENCE SHOULD USED, THE BLEWING SHOULD USED THE DESCRIPTION OF THE USED TO DUL, 911 MUST HAVE THE CORRECT ADDRESS INFORMATION AFFLATED WITH THAT PHONE LINE.

9 41, WORK WIST COMPY WITH THE 2009 NATIONAL ELECTRICAL, CODE, 2008 STATE OF NOWAN LECTRICAL WORK WAS ALL BIT COMPRET.

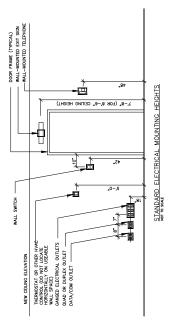
15 DISHMASHERS SHALL HAVE A DISCONNECT SMITCH FOR EACH UNT INCLUDING COMMUNITY ROOM. 14 WATER PIPES AND GAS PIPE OF THE WATER HEATERS SHALL BE BONDED TOGETHER, SECTION: NEC 250,104(8)

The through the company of the A programmer senten including the control of the company of the Control of the Control of Control of the Control of the Control of the Control of Control of the Control of the Control of 19 GROUNDING CONDUCTORS SHALL BE INSULATED AND GREEN OR GREEN WITH TELLOW STRIPE.

20 answer (or WAZIGE C 102-V208-V20) SHUL RE BALCHAT), AND BALE WITH THE KENTRA WHITE CAN'L SECTION 1130)
THE KENTRA WHITE CAN'L SECTION 1130)
THE SECTION OF THE STATE OF THE SHAPE OF THE SHAPE OF SHAPE OF THE SHA EQUIPMENT BONDING JUMPER SIZED ACCORDING TO 2008 TRBLE 280,122 SHALL BOND EACH METAL LIGHT POLE TO THE EQUIPMENT GROUNDING CONDUCTOR. LICATION OF THE METER CLOSETS FOR EACH FLOOR SHALL BE PROPERLY LABEL

24 ONE GROUND CONDUCTOR SHALL RUN UNINTERRUPTED TO THE WATER SERVICE.

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<u> </u>	Я	3	N	PROJECT#	Marie Land Constitution of the Constitution of	PUBLIC WORKS BUILDING					11.11.21	•	DRAWN BY:	APPROVED B	SCALE:	DESCRIPTION	SHEET NO.		



1-POLE DUAL TECHNOLOGY (PRI, MARCHOPHOUS) OCCUPANCY SENSOR, SETE-ADJUSTING WHTE, 270,277 VIG 800,770 WHTE, PER COURT, WITH 480 DEGREE COVERAGE AND BULL-IN MANUAL, OFFERIDE CONTROL TO MANUALY SHUT LIGHTS OFF WHEN DESIRED.

SWALL
FOUNS, SWALL

ELECTRICAL CONTRACTOR SHALL PROVIDE 1/4" SCALED LIGHTING CONTROL SHOP DRAWINGS CONSISTING OF BLIGHEERD PARKS AND LIGHTING CONTROL, DEVICE, SCHEDULE FROM LIGHTING CONTROL, MANUFACTURER FOR BUSINESPS REVEW.

VERIFY NUMBER OF CONTROL UNITS.

HING CONTROL NOTES: ALL SENSORS SELF-ADAPTING.

VOLT LOCATION

SENSOR MANUFACTURER AND FIELD TAG CATALOG NUMBER VIEW

SENSOR SWITCH ACUITY #WSX-PDT

94

LIGHTING CONTROLS SCHEDULE

2-POLE DUAL TECHNOLOGY (PREMORDENDEZ) OCCUPANCY SENSÓN, SELF-ADJUSTING WHIE. 120/272 VAG BOD/1700 WATE PER ORIGIT WITH 480 DEGREE CONFEAGE AND TWO BULL-IN MANUAL OVERRIDE CONTROL TO MANUALLY SHUT ETHER GRICUIT OFF WHEN DESRED.

CONF.

SENSOR SWITCH ACUITY #WSX-PDT-2P

×26

DUAL, TECHNOLOGY OCCUPANCY SENSON, EXTRIBUDE NAMES, SELF ADAPTING, UL LISTED POWER PACK. PROVICE NIEW SENSOR MUSCOPHONIC—DUAL TECHNOLOGY—12 TO 24 VDC//NG.

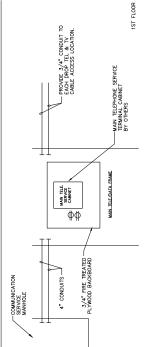
SURFACE CELLING CARAGE, 120 VAC LOCKER

SENSOR SWTCH ACUITY WV-16

(8)

SHORT: 12" LONG: 30'

SENSOR NOTES



2ND FLOOR

TELEPHONE / LOW VOLTAGE SYSTEM ONE-LINE RISER DIAGRAM NOT 10 SOME

LIGHTING FIXTURE SCHEDULE NOTES:

- ELECTRICAL CONTRACTOR SHALL SUBMIT CATALOG CUTS TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING LIGHTING FIXTURES. ALL BALLASTS SHALL BE PROGRAMMABLE RAPID START, ELECTRONIC ENERGY SAVING TYPE.
- ALE DIT SIGNS AND BESTEROW, USERT TRINGS SALLE OF RETITE ACCORDANCE WITH LOCK COSE LUTHORY ALL THE TORIS SALLE BETISALLED MA, VERBLE LOCATION, WHICH THE VERBLETIONS IN POREST OF ACLULATE WEIGHT. THE TORIS SHALL FIRMLED IN A VERBLE LOCATION, WHICH THE VERBLETIONS OF SERVICE WAS GOSTWICTORY.
- NOT USED
- NOT USED
- ELECTRICAL CONTRACTOR SHALL PROVIDE SUBMITTAL ON FULL LIGHTING FIXTURE PURCHASE FOR ARCHITECT'S APPROVAL PRIOR TO ORDER.
- FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY LOCAL CODES. PROVIDE LAMPS FROM: OSRAM SYLVANIA, GE OR PHILIPS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY FINAL VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURES. CEILING THICKNESS IN EXCESS OF 3/4" SHALL BE IDENTIFIED IN WRITING BY CONTRACTOR/ARCHITECT.
- FIXTHES LOCATED IN AN INSULATED CELLING AREA, SHALL HAVE AN IC HOUSING (ELECTRICAL CONTRACTOR TO COORDINATE).
- FIXTHRES SHALL BE ORDERED WITH THE APPROPRIATE BALLASTS THAT HAVE UL AND CBM LABELS. BALLASTS SHALL CONFORM TO LOCAL CODE REQUIREMENTS FOR PERFORMANCE, SMITCHING, AND WIRING (I.E. TANDEM). PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR LIGHTING FIXTURES LOCATED IN A FIRE-RATED CELLING.

12. 5 5 ₹

- WALLS DRECTLY ILLUMINATED SHALL BE INSTALLED AND FINISHED IN A MANNER TO ELIMINATE SHADOWS OR BLEMISHES (I.E. HANG DRY MALL VERTICALLY).
 - THE ARCHITECT AND LIGHTING DESIGNER SHALL APPROVE FIXTURE SUBSTITUTIONS PRIOR TO BID. CONTRACTOR SHALL SUBVEY A SHALL AND/OF PHOTOMETRIC DATA IF REDUESTED. IF SUBSTITUTION IS REJECTED, CONTRACTOR SHALL PROVIDE SPECIFIED PROJUCT.
- FIXTURES SHALL INCLUDE ACCESSORIES FOR INSTALLATION ACCORDING TO LOCAL AND NATIONAL CODES.
- PRIOR TO GROTHING LIGHTIME EQUIPMENT, THE CONTRACTOR SHALL WERPY LOCATIONS AND RECESS DEPTHS.

 LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED PATTIRE SCHEDULE.

 VERPY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTIME STATURES WITH ARCHITECT PRIOR TO ROLDEI-IN.

SDISORS ON DRAWING WERE PLACED WITH CHRENT RETRAINDLY, ADDITIONL, SENSORS MAY BE RECURED TO PROVING CHARLETE, COMPANGE DEPENDING ON CHARGES, FRALL PARTITION RECURED FRACEMENT, FORWING PLACEMENT, ENGINEER HEIGHT/PLACEMENT, AND SHELMES, HEIGHT/PLACEMENT, AND SHELMES.

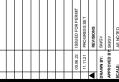
SENSOR MASKING KITS MAY BE REQUIRED TO LIMIT COVERAGE DEPENDING ON THE PROJECT REQUIREMENTS.

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					EMERGENCY WALL PACK LIGHT FXTURE WITH METALLIC ENCLOSURE; SFALED LEAD—CADMIUM 120 MINUTE BATTERY AND INTEGRAL TEST SWITCH	EMERGENCY EXIT SIGNS WITH INTEGRAL BATTERY PACK AS APPROVED BY LOCAL CODE AUTHORITIES
LIGHTOLIER			REMARKS		RGENCY WALL PACK ALLIC ENCLOSURE; S MINUTE BATTERY AN	RGENCY EXIT SIGNS K AS APPROVED BY HORITIES
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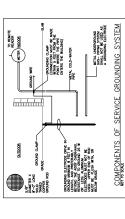
FOR REFERENCE ONLY AS NOTED ELEC SCHEDULES, NOTES & DETAILS LAKE COUNTY E-7 PUBLIC WORKS BUILDING

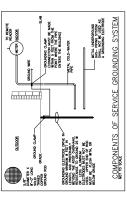


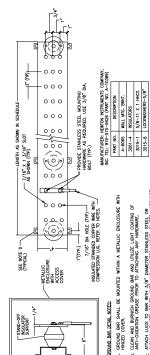
N

- ALL COMPRESSION AND MECHANICAL CONNECTIONS SHALL BE COATED WITH THE CORROSION PREVENTATIVE COMPOUND NO-CX-ID "A", AS MANUFACTURED BY DEARBORN CHEMICAL COMPANY.

- STON, ILLINOIS) TEL. # 309/662-5162 OR 800/ANIXTER ANIXTER (BLOOMIN
- D. GUS BERTHOLD ELECTRIC COMPANY (CHICAGO ILLINOIS) TEL. # 312/243-
- ALL TIGS AT GROUND BAR TERMANTONS SHALL BE SEARED WITH 9-PLY OR 12-PLY. TWAR-/CIGND JAANFACTIRED BY ANXTER. TE WAARS SHALL NOTE BE SHALL SHOWN IN-PLY PART # 204011, 12-PLY PART # 224798.







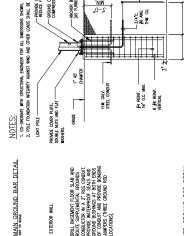


PROVIDE PART QUANTITIES AS REQUIRED FOR EACH GROUND BAR ASSEMBLY.

ATTACH LUGS TO BAR WITH 3/8" DIAMETER STANLESS STEEL OR CADMILM-PURIDED BOILS, NUTS AND WISHERS. NICKEL PLATED HARDWARE SHALL NOT BE ACCEPTABLE, UTILIZE TWO FLAT AND ONE LOCK WASHER FOR EACH BOLIED CONNECTION.

CLEAN AND BURNISH GROUND BAR AND UTILIZE LIGHT COATING OF ANTI-OXIDATION GREASE PRIOR TO ATTACHING ANY HARDWARE.

5/16" DIA, X 3 1/2" HEX HEAD CS WITH 3/8" DIA, PIPE SPACER 2" LONG AND 5/16" DIA, HS DROP IN ANCHOR.



1. 00-0KD 2. POLE FO	DOHE POLE PROVIDE COVER DOUBLE NUTS .	The Date of the Da	
and to declar	EXTERIOR WALL	PIRIL RESERVENT FLOR'S LIG. 40 MO ROUTE SIPFELENTIAL CONDUCTOR FOODOLOGINE AZ FESS COMULT PROVIDE WITERFEST AT BOTH BUS OF COMOUNT AND PROVIDE BUSINGS JAMPSES (HREE GROUND ROU LOCATIONS).	
	Second Bus	NOW BOUNDARY NO	

PROVIDE		
EXTERIOR WALL	DRILL BASTACHT FLOOR SLAB AND ROUTE SPREALDRING, ROOMOS COMOLOGIS IN A 27 NSC CORBUST PROMOUTE WITHOUT IN A 27 NSC CORBUST PROMOUTE WITHOUT STATE STATE OF COMOUT AND PROMOTE REDOMO LICANIDOS). LICANIDOS).	INTER GOA CHILDEN TO BIBLE CRUINO SITE CHILDEN
GROUND BUS	Expirement Connection (National Properties of Participation of Participati	NOTICE ONLIGHT

LIGHT POLE	PROVIDE COVER PLA DOUBLE NUTS AND WASHERS.	GRADE		
	EXTERIOR WALL	DRILL BASEMENT FLOOR SLAB AND ROUTE SUPPLEMENTAL GROUNDS CONDICTION IN A 2" RCS CONDIT	PROME WIRRSHOOT SLALS AND GROUND BUSINESS A BOTH DOES OF CONULT AND PROVICE BROAND LOCATIONS).	GROUND BUS CONNECTION TO BURIED GROUND ROD DETAIL
_	GROUND BUS	EXOTHERMIC WELD CONNECTION	A Bear Changer	GROUND BUS CONNECTION TO

		SOUTHWAT TAS			sn.	1, Teaching				
NOTES:	. CS-ORDINATE WITH STRUCTURAL ENGNEER FOR ALL DIADNSONS SHOWN, 2. POLE FOUNDATION INTEGRATY AGAINST WIND AND OTHER LOADS SHALL BE VERYEED BY STRUCTURAL ENGNEER.	JOHT POLE	DE CORER FUNE. CORPRESSION THE COMPETCIONS CHE MATS AND FAUT.	GRUZE 1 45 CHARTER GALTE (AS FURNISHED BY POLE WE'GR.)	N O	His OW.	H REM: 3,4° 10°-0° 19° 10°-0° 10°-	e je sove.	Z DB. Z-6" MR.	PARKING LOT LIGHTING POLE BASE

UGHTING PAND. FEEDERS (TYP)

GENERAL GROUNDING NOTES

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- USE HYDRAJUIC COPPER COMPRESSION H-TAP CONNECTORS AS MANUFACTURED BY BURNOY, TYPE YH "H COPPER CRIMPH". PROVIDE FLAME RETARDANT INSULATING COMERS. PROVIDE THOMAS AND BETTS HARD COMER TYPE "HTC".

- ALL GROUND CONDUCTIONS SHALL BE CORPORT WITH GREEN (COLOR) INSULATION. GREEN-ANSLATED GROUND WIRE FOR ALL SZES IS AVAILABLE. AND CONDUCTIONS LAKEST THAN #1 SYNC SHALLAR ET PTE REHY/RAW (BRADDEZ-COSH) AND RELEASE THAN #1 SYNC SHALLAR ET PTE REHY/RAW (BRADDEZ-COSH) AND CET, SWITHETT REBREEN RISAL/KINO).
- ALL GRONDING CONDUCTORS SHALL BE IN METALLIC CONDUIT, UNLESS OTHERMEE WITED. GROUND CONDUCTORS SHALL MOT BE RIAN CONCEALED. Y SLAS, COLUMNS, OF WALLS. USE RIGD GALVANIZED STEEL CONDUIT SLETKES WHERE GROAND CONDUCTORS PDEFIRMER WALLS OFF FLOOR.
 - METALES SEME SEME ENERGY DE SERRE GROON DEMOCRITOR CONTINGE TERM TE WEND TO NOT CHARLETTU DEMOCRATIVE TO THE BLUDNIC CLOUMS OF WILLS. IN FETALLIC STRAPS ARE USED, THEY SHALL BE OF THE TITS WHICH DO NOT CHARLETTU DEMOCET THE CONDUCTION SAFERY CLAFF CONTOUR SET UTILISES. THE SHALL STRANGE THE WAS TO STRANGE AS CONDUCTIONS.
 - THE MINIMUM BEND RADII ON GROUND CONDUCTORS SHALL BE AS FOLLOWS.

METAL UNDERGROUND WATER PIPE COMPLIANT WITH CITY OF CHICAGO

METAL RACEWAY

STREET WATER CONNECTION

BUILDING BLECTRICAL SERVICE ENTRANCE FROM TRANSFORMER

CONCRETE SLAB OVER GRANULAR GRAVEL FILL

CONCRETE-ENCASED
SOUNDING ELECTRODE IS
REQUIRED FOR THE
GROUNDING SYSTEM. SECTION
NEC 250-52(A)(3)

PROTECTIVE SLEEVE GUECTRODE CONDUCTOR CLAMPS SUITABLE FOR DIRECT BURIAL OR EXOTHERANC WELD

BUILDING GROUNDING DETAIL

CONCRETE ENCASED ELECTRODE DETAIL

NOTE TO SCALE

GROUNDING BLECTRODE COMPLIANT WITH CHICAGO CODE

- TAG ALL GROUND CONDUCTOR TERMINATIONS AT GROUND BAR WITH GRAY OVAL FREET "FAR-END DESTINATION" 145P TAGS AS MANUFACTURED BY ONE OF THE FOLLOWING
- OROUND SERVICES MAY BE STAMPED, BNORAVED, OR LEOBLY/NEATLY HANDWRITTEN ON FIBER TAG. AT OROUND BAR TERMNATIONS ALSO PROVIDE BROAVED BRASS "DO NOT DISCONNECT" TAGS MANUFACTURED BY: B. MARCONI (OHIO) TEL. # 800/927-2780 PART #847755246
- 5767 (BLANK TAGS PURCHASED BY GBE CO. AND STAMPED) C. ANIXTER (MANUFACTURED BY FLEXTRONICS AND SOLD BY ANIXTER) PART # PO411719
- THE MAIN BILLIONG GROUND BAR (MGB) SWILL BE THE EXTENSION OF THE BUILDING GROUNDING SYSTEM AND SWALL SERVE, AS THE MAIN POINT OF BORDING WITH THE FALLITY MGD SWALL CORNETY WITH CHICAGO BUILDING CODE. THE MGB SWALL BE THE COMMON GROUND POINT TO WHICH ALL GROUND POINT TO WHICH ALL GROUND FOR THE FALLITY ARE BURGED.
 - THE ROUTE OF THE BONDING CONDUCTORS FROM THE MGB TO THE FACILITY GROUND RING SHALL BE AS SHORT AND STRAIGHT AS PRACTICALLY POSSBEL.
- THE MGB WIL SHALL BE CONFIGURED TO MANTAIN SEPARATION BETWEN SURGE PRODUCERS, ABSORBERS, NON-ISOLATED AND ISOLATED GROUNDS. THE MGB SHALL BE PERMAMENTLY AND APPROPRIATELY LABELED AND IDENTIFY WITH "P", "A", "N", AND "I" SECTIONS OF THE MGB.
- BONDING CONDUCTORS BETWEEN THE WAS AND OTHER ANCILLARY GROUND BARS OR EQUIPMENT BAYS SHALL RUN IN THE STRAIGHTEST ROLTE. MINIMIZING THE TOTAL LENGTH OF THE COMBUCTOR.
 - ALL GROUNDING SYSTEM CABLE RUNS THAT ARE ROUTED THROUGH WALLS, CELLINGS OR FLOORS SHALL BE PROTECTED BY METALLIC CONDUITS SEEPRS.
 - CONNECTIONS TO THE BURIED DELTA GROUND RING SHALL BE EXOTHERMIC ALLY WELDED BY TECHNICIANS CERTIFIED ON THE PROCESS. CONNECTIONS OTHER THAN EXOTHERMIC WELD SHALL BE LOCATED SO AS TO FACILITATE PERIODIC INSPECTION AND MAINTENANCE.

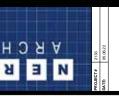
ALL BLAED CONNECTIONS SHALL BE EXCHEMUR WELDS. ALL EXPOSED MECHANICAL AND/OR HICH COMPRESSION CONNECTIONS SHALL BE TREATED WITH A PROTECTIVE, ANTI-COXDATT COATING. ALL EXCINERABLE WELDS TO GALVANIZING SURFACES SHALL BE SPRAYED WITH GALVANIZING PAINT.

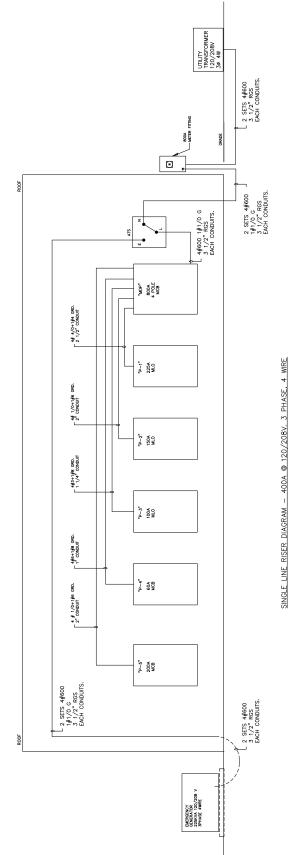


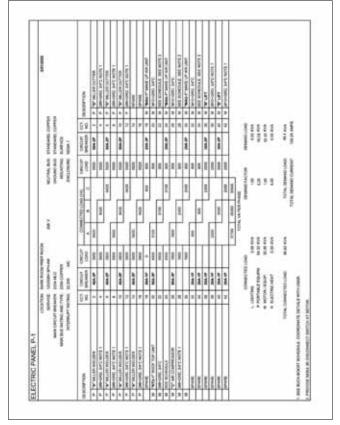
LOR REFERENCE ONLY LAKE COUNTY E-8 **БИВГІС МОВКЯ ВПІГВІИВ**

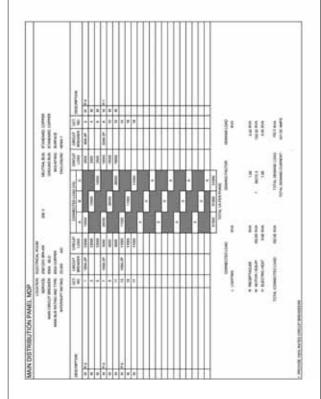












LOR REFERENCE ONLY

LAKE COUNTY

E-9

БИВГІС МОВКЯ ВПІГВІИВ

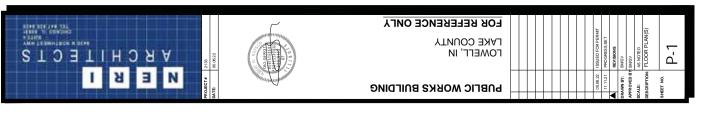
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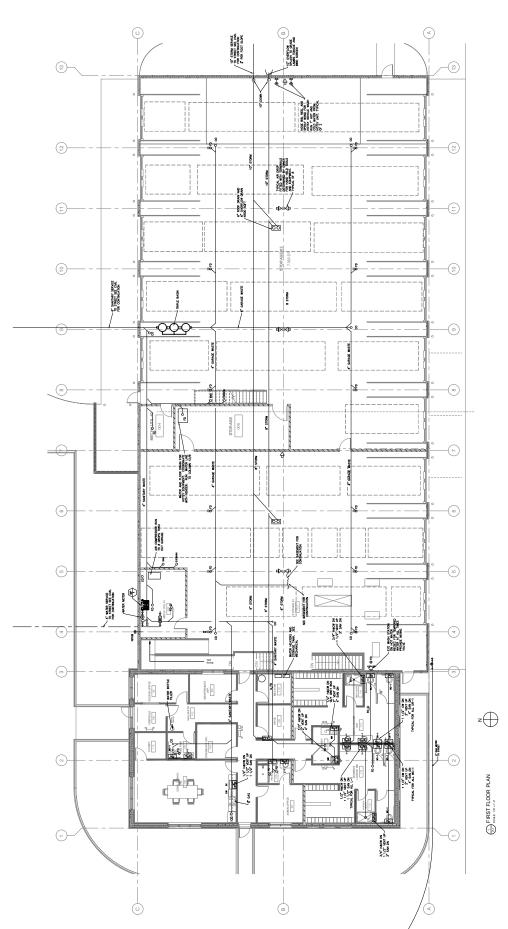
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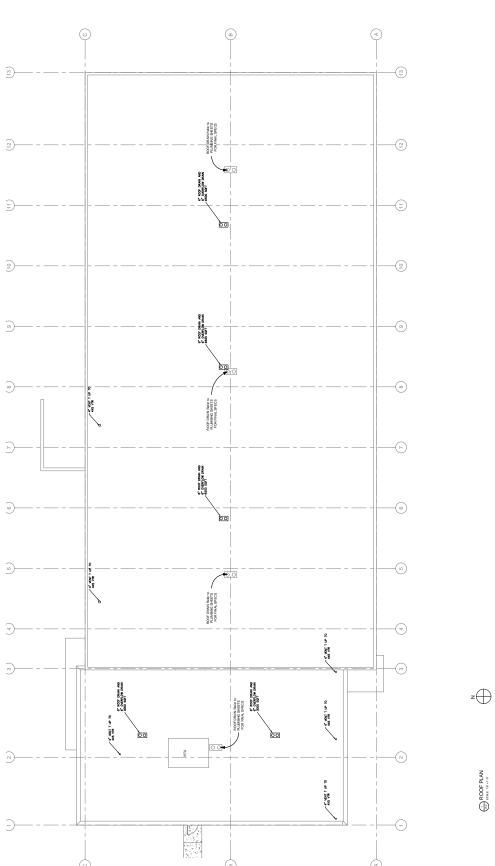
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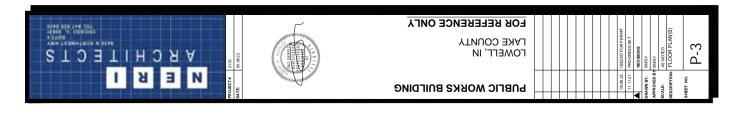


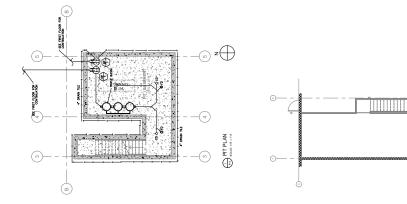
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E ARCHITECTS		LAKE COUNTY LOWELL, IN			ISSUED FOR PERM PROGRESS SET REVISIONS SMCV SMCV	AS NOTED FLOOR PLAN(S	P-2
PROJECT* N E R I	The state of the s	PUBLIC WORKS BUILDING			05.06.22 11.11.21 APPROVED BY:	SCALE: DESCRIPTION:	SHEET NO.











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PLUMBING FIXTURE SCHEDULE	NOILLAIDE		PROVIDE OPEN FRONT, ANTIBACTERM, TOLET SEAT WITH STANLESS STEEL CHECK HINGE, PROVIDE VANDAL, RESISTANT CUARTER TURN SUPPLY STOP		ANTBACTERIA, TOLET SEAT WITH STANLESS STEEL CHECK HINGE. PROVIDE VANDAL RESISTANT QUARTER EL MIT, SPLENTKAINNY PROM TURN SUPPLY STOP		PROVIDE OND STRANGE, AJA P-TRAP & TAILPECE & VANDAL RESISTANT QUARTER THRN SUPPY STOPS, PROVIDE TRE-BRO LAY GLARD IN FOR ALL LAVS, PROVIDE THERMISTATIC MISNIC VALVE FOR ALL LAVS.		CHARLE ZHIN SHY FACTOR TANN WITH POSITION CHARLES HERE, MASKED COLLET, PAR, SEE MF, SECTIOLITIONS FROM HOCK AND ADMISTREE, WALL HOCK SPICEY CO. CHECK STORY (WALL HOCK). AND —44 (S' THE SPECTIOLITY PARTY OF THE PROPERTY OF THE POSITION OF	INSTALL VACUUM BREAKER $7'-6$ * ABOVE FINISHED FLOOR.	OPTIONS BY OWNER	OPTIONS BY OWNER		
	MFR. / MODEL No.		FOR TYPICAL MFR/MODEL# SEE A7.3 FOR FIXTURE, FAUCET AND TRIM	FOR TYPICAL	MFR/MODEL# SEE A7.3 FOR FIXTURE, FAUCET AND TRIM		MFR/MODEL# SEE A7.3 FOR PATURE, FAUCET AND TRIM		ZURN 1996-24		JR SMITH 2010	JR SMITH 420		
	FIXTURE		TOILET WALL HUNG		WALL HUNG		LAVATORY		MOP BASIN		FLOOR DRAIN	CLEAN OUT		
	FLOW RATE (GPM)		1.6/1.1 GPF		1.6/1.1 GPF		0.5 GPM	Ī	2.5 GPM		-			
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DUPLEX VARIABLE SPEED RATED FOR A SYSTEM CAPACITY OF 320 GPM WITH A MAINTAINED SYSTEM PRESSURE OF 60 PSI INCLUDING A MINIMUM SUCTION PRESSURE OF 10 PSI.

3525 3450

208/3/60 208/3/60

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CLOSE COUPLED VERTICAL MULTI-STAGE CLOSE COUPLED VERTICAL MULTI-STAGE

DUPLEX DOMESTIC MATER BOOSTER PUMP SYSTEM

52

V / PH / HZ HP RPM

E SPEED PUMP RATED PUMP HEAD PSI V /

ARIABLE RATE GPW 160 160

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SEE MFR. SPEC SHEET PRIOR TO INSTALL.

ENCASED ANTI-SPHON AUTOMATIC DRAINING WALL HYDRAIT FOR FLUSH INSTALLATION "A/MTEGRAL BACKFLOW PREWATOR, BRONZE CASING. NICKEL BRONZE BOX #/HINGED COVER AND OPERATING KEY LOCK.

-FREEZE WALL
HYDRANT

L MODEL 1300-15 / MODEL No.

REMARKS

SEE MFR. SPEC SHEET PRIOR TO INSTALL.

CHARTER TURN NON-FREZE HYDRANT, WITH SYA" HOSE CONNECTION, BACKER PLATE AND INTEGRAL VACUUM BREAKER WITH VANDAL RESISTANT CAP AND "T HANDLE. SPECITY CHROME PLATED.

HOSE BIBB

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SECTION 15400

- PLUMBING
 PLUMBING
 1.4 GENERAL
 1.5 SCOPE OF WORK
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 1.6 SCOPE OF WORK
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- - - 6.) METERS AND UTILITY CONNECTIONS.
 PART 2 PRODUCTS

- 2.1 DESCRIPTION
 A SQL, WARTE AND VIEW THENDE BELOW FLOOR TO 9"-0" OUTSIDE BUILDING.
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 SA APPROVED BY LOCAL, ANTIONETRY IN CONCRETED LOCATIONS.
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 - 2.2 INSULATION
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- A. ALL ACCESSORIES. AS INDICATED ON THE DRAWINGS THE EQUAL PRODUCTS FORNISHED BY WAGE JOSAM OR ZURN BEING ACCEPTABLE. 2.5 EQUIPMENT
 - A SHUT-GFF WARS UNDERBLATH LAWATORES, TAWK THPE WATER CHOSEN SWAR WATER SHOWED TO THE STATE SHOWED TO THE SHOWED SHOWED TO THE SHOWED SHOWED TO THE SHOWED THE SHOWE

PART 3 - INSTALLATION

GENERAL PLUBMING NOTES

- ALL WORK TO MEET FLUMBING CODES AS SET FORTH BY THE ILLINOIS
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Gas Distribution scale: NONE

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PROJECT#	DATE:	arriver in
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SEE MFR. SPEC. SHEET PRIOR TO INSTALL.

ZOELLER MODEL M266 ZOELLER MODEL M266

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HEAD (FT)

CAPACITY (GPM) PUMP DATA

TYPE

MEDIA OR SYSTEM

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SUBMERSIBLE DUPLEX

SANITARY STORM

MOTOR DATA

EJECTOR & SUMP PUMP

	Gas Piping/Tubing Material Matrix(Based on IFGC 403)
Material	Permitted Not Standards to Permitted Follow
ht-iron	Wrought-Iron Schedule 40 or better ASME B 36.10.10M or ASTM A35 or ASTM A106
	Schedule 40 or better ASME B 36.10.10M or ASTM A35 or ASTM A108
DISTRIBU	N.C. DISTRIBUTION PIPING SHALL BE SCHEDULE 40 STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A 53/A 53M MTH 150#

PRINC. Note: The gas piping design shall conform to dif the requirements of IFGC 403.

- GENERAL, GAS PIPING NOTES: A ALL WORK SANGEL CORES. THE PLANSHED AND NETALED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLACE CORES.
- FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTERNATIONAL FUEL GAS CODE(FGC), CHAPTER (WITH MODIFICATIONS AS NOTED IN ARTICLE 14), [18-28-1400] GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABTES 402.(1) THROUGH 402.3(34). [IFGC 402.3]
 - THE MAXMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [TFGC 402.5]
 - GAS PIENG MATERIALS MUST CONFORM TO THE GAS PIENG & TUBING MATERIAL MATRIX (L'OC 403 REQUIREMENTS). [FOC 403]
 - PIPING IN CONCEALED LOCATIONS MUST CONFORM TO THIS IFGC 404.3, [IFGC 404.3]
- MINIMUM REQUIRED BURIAL DEPTH FOR UNDERGROUND PIPING SYSTEMS MUST CONFORM TO IFOC 404.9. (MINIMUM 12 INCHES BELOW GRADE). [IFOC 404.9]
 - GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]
- GAS PIPING GREATER THAN 2" INSIDE DIAMETER OR CARRYING MORE THAN 5 POUNDS(PSIG) SHALL BE SCHEDULE 40 STANDARD WELD FITTINGS.
- PIPING METER IDENTIFICATION SHALL BE MARKED WITH AN APPROVED PERMANENT IDENTIFICATION AND BE READLY IDENTIFIABLE:

 - 11. PANT ALL GAS PIPING THAT IS EXPOSED TO THE ELEMENTS. 12. UNDERGROUND PIPING SHALL BE A MIN OF 18" BELOW GRADE. [IFOC 464:12]

FOR REFERENCE ONLY

PUBLIC WORKS BUILDING

LAKE COUNTY

LOWELL, IN

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R. PLUM SCHEDULES.
NOTES & DETAILS

P-4

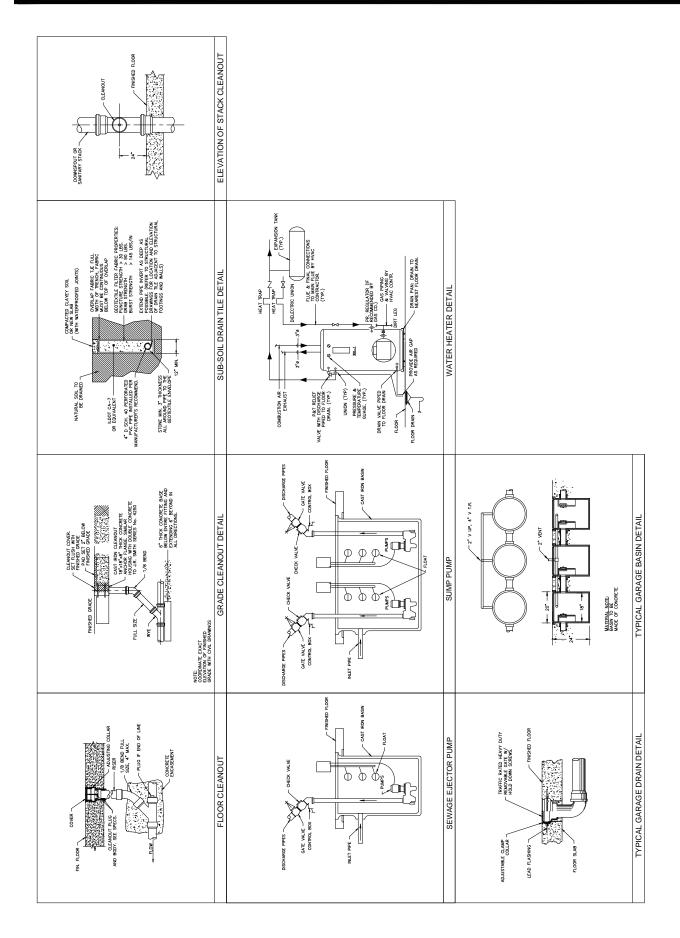
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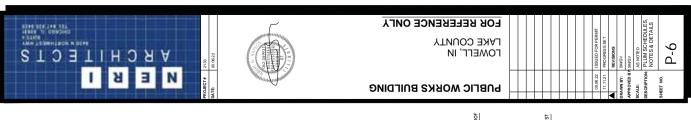
LOR REFERENCE ONLY LAKE COUNTY P-5 **БИВГІС МОККЗ ВЛІГДІИС**

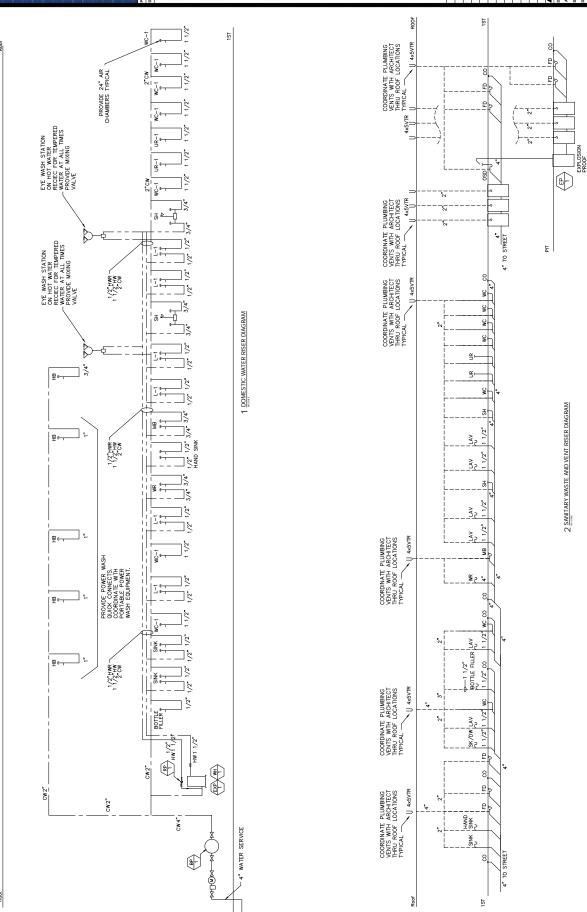












APPENDIX G

NASSAU PARK DRAFT PLAN DETAILS













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