URBAN DESIGN COMMITTEE

The City of Lincoln Urban Design Committee will have a regularly scheduled public meeting on Tuesday, **December 6, 2022**, at **3:00 p.m.** in City Council Chambers on the 1st floor, County-City Building, 555 S. 10th Street, Lincoln, Nebraska, to consider the following agenda. For more information, contact the Planning Department at (402) 441-7491.

AGENDA

1. Approval of UDC meeting record of November 1, 2022.

DISCUSS AND ADVISE

2. Antelope Tower Redevelopment – *UDR22128*

STAFF REPORT & MISC.

3. Staff report & misc.

Urban Design Committee's agendas may be accessed on the Internet at https://www.lincoln.ne.gov/Citv/Departments/Planning-Department/Boards-and-Commissions/Urban-Design-Committee

ACCOMMODATION NOTICE

The City of Lincoln complies with Title VI of the Civil Rights Act of 1964 and Section 504 of the Rehabilitation Act of 1973 guidelines. Ensuring the public's access to and participating in public meetings is a priority for the City of Lincoln. In the event you are in need of a reasonable accommodation in order to attend or participate in a public meeting conducted by the City of Lincoln, please contact the Director of Equity and Diversity, Lincoln Commission on Human Rights, at 402 441-7624 as soon as possible before the scheduled meeting date in order to make your request.

MEETING RECORD

Advanced public notice of the Urban Design Committee meeting was posted on the County-City bulletin board and the Planning Department's website.

NAME OF GROUP: URBAN DESIGN COMMITTEE

DATE, TIME AND Tuesday, November 1, 2022, 3:00 p.m., County-City Building, City

PLACE OF MEETING: Council Chambers, 555 S. 10th Street, Lincoln, NE.

MEMBERS IN Mark Canney, Emily Deeker, Jill Grasso, Peter Hind, Gil Peace and

ATTENDANCE: Michelle Penn; (Tom Huston absent).

OTHERS IN Paul Barnes, Stacey Hageman, Collin Christopher and Teresa

ATTENDANCE: McKinstry of the Planning Department; Hallie Salem of Urban

Development; Jonathan Fliege and Ryan Curtis with Leo Daly; DaNay Kalkowski; Jennifer Seacrest with Olsson Studio; Evan Young; Joy Skidmore appeared via Zoom Video Communications ©; Nate Burnett with REGA Engineering Group; Matt Olberding with

Lincoln Journal Star; and other interested parties.

Chair Penn called the meeting to order and acknowledged the posting of the Open Meetings Act in the room.

Penn called for a motion approving the minutes of the regular meeting held October 4, 2022. Motion for approval made by Peace, seconded by Grasso and carried 6-0: Canney, Deeker, Grasso, Hind, Peace and Penn voting 'yes'; Huston absent.

LINCOLN BOLD REDEVELOPMENT:

November 1, 2022

Members present: Canney, Grasso, Hind, Peace and Penn; Deeker declaring a conflict of interest; Huston absent.

Jonathan Fliege shared the status on the update of the design. He understands the importance of this particular site. This is designed to be up to 275 feet tall. It is not in the Haymarket district, but they want to respect the owner's wishes for a bold building. They are also aware that this is directly next to the Haymarket district. Nebraska is an agrarian based society. Lincoln represents an intersection of urban and open space. The owner has asked for an iconic building. After working through numerous models, a notion of emergence came forward. They have played off the word emergence and looked at the history of the Haymarket with cattle and grain. Corn itself

is actually a grass. The building is a representation of how a stem of grass grows and flairs at the top. The east façade of the tower faces 9th Street. It is an abstraction of marking this corner of the Haymarket. The finials represent a grain of grass. Those will be lit at night. One of the biggest points of conversation was the podium. It has evolved to less glass and more masonry. They are cladding the podium. The step back is an amenities floor to the building. There is an outdoor pool and other amenities for apartment owners in the building. They are proposing limestone. They are working with some interesting geometry and the orthogonal grid of the city. He showed some images of the proposal. They added some punched windows above the canopy. There is a carport where a customer would pull in and drop off their car for valet service. The 9th Street experience is different from the 'P' Street experience. They are trying to be respectful of this corner and its proximity to the Haymarket. Jennifer Seacrest has been working on the streetscape and other landscape elements.

Jennifer Seacrest stated they were before this committee last month with the streetscape project. This is incorporating the same vision. The efforts on 'P' Street are to honor the Haymarket nodes and intersections. As you turn the corner, it will honor the 9th Street vision.

Penn saw a memo from Hallie Salem. Stacey Hageman noted the new format for staff reports for Urban Design Committee. She wrote that this application was before Historic Preservation Commission previously. They did not review the latest version. The applicant tried to reflect that commission's comments with an open vision on the first floor. They are using limestone. The storefront has the same proportions as in the Haymarket. The area above without punched openings is mechanical equipment. Hageman also referenced Downtown Design Standards which apply to this site, particularly how they relate to vehicular access. She believes it meets the standards for transparency and other standards.

Hallie Salem stated that previous iterations of this project concentrated on site parking. This is more valet parking. Fliege added that traditional parking didn't work for them. The site limited how many stalls they could get.

Salem stated that a redevelopment plan amendment is going to City Council in November 2022. A redevelopment agreement will most likely go to City Council after the first of the year. This is advice for the Mayor's office.

Fliege stated they are tying into the district energy system. This is a live/work/play notion for apartment dwellers. There is bike storage and other amenities available. They hope to reduce some of the need for cars.

Penn inquired if there is any precedent for no parking being provided. Salem believes there are residential projects that don't have parking. B-4 zoning doesn't require parking. Hind noted a

couple of projects that don't have parking. Salem added that the applicant has set up relationships with parking garages.

Canney wanted to know more about the interface of this building with the Haymarket. The site plan seems to show significant hardscape and he asked if there is any interface with activating the space. Will there be any furniture or plants? He wondered if the Downtown Master Plan covers this area or the Downtown Corridors. Seacrest replied yes. The southern face is more active. That is being designed to match Haymarket design standards. Furniture is more limited to smaller green planters. They are proposing to bump out the corner and make it a little larger. There will not be any benches. That is in line with the furniture and articulation of the Haymarket. As it relates to 9th Street, they are proposing a bench in the seating wall.

Peace wondered where the applicant is in the design process and the timeline to get started. Ryan Curtis stated for the next design phase, they will spend most of November working on presales and the construction manager. Their intent is to kick off design development phases in December through spring of next year. They hope to be done with construction documents at the end of summer 2023.

Hind noted that what the applicant is showing today is different from what was in the agenda. Fliege agreed. Hind asked about the wood noted on the plan. Fliege understood that he was speaking to the wood shown on the soffits. It will more than likely be a metal panel with a wood look. Hind would encourage the applicant to look at the panel that is there. Fliege stated they are not completely decided at this point. They had a couple of conversations with the owner about the underside of the canopy. The site drops to the west. The main overhead soffit piece might change a little. Hind asked about the units on the second floor. Fliege stated there will be commercial on the lower level, then living spaces above. Hind believes the width of the sidewalk is a good thing. The buses park across the street for The Graduate Hotel. There are a lot of people traversing this area on foot. Curtis stated that the program of the building remains very similar to what was already presented. Floor five will be a mixed level, floor six is the amenity deck and levels seven through fifteen will be apartments. They are proposing about 70 apartment units. Level sixteen and above are condo/penthouse. There will be about thirty units of sellable space.

Peace stated that the last presentation the applicant made before this committee, they mentioned the P' 'Street side might have a store front. Curtis stated this has become more of a no from the client. Their client is negotiating parking with the City. There is no parking on the site. Peace believes it might be a little hard to get a gauge on what is needed for parking. He can see a little bit of a traffic jam. Fliege added that with technology, you can call ahead for your car.

Canney would still like to understand the streetscape a little. All he sees is pavement. Seacrest stated there will be landscape enhancement, light poles, signs for the Haymarket and kiosks. Canney would like to see the interaction of the streetscape contextually. Salem noted they are

asking for approval of the building. Landscaping and streetscape would be back later for review. She hopes unless there is a specific interaction between the landscape and the building, they will be back with the Downtown Corridors design plan for phase one. This will be part of that or a separate project. Canney noted that made sense to him.

Hind asked where the vestibule will be and where the main door to the lobby will be located. Fliege stated there is no door facing 9th Street. Penn wondered about the plan for entry into the building. Fliege showed a door off 'P' Street. Under the car port is another door. From there, you turn west to the main concierge. The whole glass corner is more of a hospitality experience. Hind asked if you will see into the glass. Fliege replied yes. This is a residential tower. This is an interesting corner. Hind noted that the applicant hasn't shown the north and west elevation. Fliege stated that the west is similar without the curve. There is a slot of balconies. Hind was concerned that there is another project in Lincoln with multiple stories with precast and it was painted concrete. He believes the building needs to hold true to the design being presented. As these things evolve, he wanted to make sure the intent and character will be what is being presented. Everyone coming out of Pinnacle Bank Arena will see this. The applicant mentioned there is intention from the City and TIF (Tax Increment Financing) side on energy use and environmental sustainability. He wondered how the glass will be shaded on the south side. It would be good to bring that into the project as well. Fliege showed the developer some glass that turns dark with the sun. That is a pricey option. The requirement for performance of the glazing is extremely high, but different opportunities are on their radar. The developer wanted to stand out and be bold.

Penn inquired about the height of this compared to across the street. Fliege stated this will be 250 feet tall. He is not sure about the height of The Graduate. Curtis believes it is around 200 feet. Penn was looking at the images from the applicant. She didn't see anything that shows the relation of this to other buildings. She understands this will be under height restrictions, but it still seems very tall. There are other buildings in the downtown area that come out of nowhere. Fliege heard that comment as well. He believes that is an old zoning question. Penn knows this is a setting of precedent down the road.

Hind thinks the applicant has done a lot of work since their initial presentation.

ACTION:

Hind moved approval as presented, subject to the committee's comments on materiality and scale, and the streetscape coming back with more detail, seconded by Peace.

Grasso was very skeptical of this initially. She thinks this design has come a long way. It will be a big new bold project for Lincoln. She believes it will be good.

Motion carried 5-0: Canney, Grasso, Hind, Peace and Penn voting 'yes'; Deeker declaring a conflict of interest; Huston absent.

THE UNION AT ANTELOPE VALLEY REDEVELOPMENT:

November 1, 2022

Members present: Canney, Deeker, Grasso, Hind, Peace and Penn; Huston absent.

Joy Skidmore stated she is the development manager of this project. The Annex Group is a multifamily developer. They develop across the country. They started out as a student housing developer. The company changed their focus a little. Most of their projects are affordable housing. Their mission is to provide a positive impact. They have their own general contracting firm. When they go into a market, they try to find local contractors. After the project is built, the project managers will typically be hired locally. They have someone on staff whose focus is to find not-for-profit groups and other resources for their residents. They try to partner with organizations that can provide tenant services. She showed some of their other projects. They have one in the northwest corner of Lincoln that is starting construction. NIFA (Nebraska Investment Finance Authority) will be a project partner.

Evan Young stated they are working through schematic design at this point. They wanted to get some early feedback. He showed a site plan and the proposed traffic flow. They have worked with LTU (Lincoln Transportation and Utilities) to identify curb cuts. There will be a ramp that leads to the lower-level parking complex. There will be just under 200 parking stalls. As you go up, there are two courtyards. There will be one, two and three bedroom units with shared amenities and access to courtyards. They are looking at a total of 187 units. He showed the south elevation along 'K' Street. There is quite a bit of slope from one side to the other. He believes the slope is around 18 feet. In order to deal with the slope, the parking is below ground on 18th Street and above ground on Antelope Valley Parkway. They wanted to keep the brick line horizontal and find the right proportion for the elevation. The brick will be sixteen feet tall on 18th Street and twenty six feet tall on Antelope Valley Parkway. They purposely restrained this to two colors for a simple, clean look. There will be several balconies that break up the façade. On 18th Street, the scale comes down a little. There is also visual access into the courtyard. Along Antelope Valley Parkway, the façade has been broken up with pedestrian access.

Deeker would like the applicant to speak to the landscaping. Young wanted to keep this a little open for air flow. They were thinking of something that allows air flow but minimalizes access.

Canney understands the whole first floor is parking. Nate Burnett replied he was correct. Canney wondered what the applicant anticipates happening above the entrance to the parking on 18th Street. Young replied a smaller courtyard is envisioned. The south side of the ramp is a pedestrian ramp to access the courtyard.

Penn inquired what the applicant is planning to do in the courtyard. Young answered they will do some raised planting beds, create a space for each patio and some outdoor space in the center area. He pointed out areas for public gathering spaces in the middle.

Canney wondered about the income aspect and what that means. Is this for students, families or both? He also asked about the vision. Sometimes those can have conflicting values. Skidmore stated their target resident is families. They would look at income typically and those rules do not typically allow students. Canney understands if this is to be family oriented, some thought should be given to the courtyards to serve children of the adults. Some thought should also be given to how the spaces are crafted. Skidmore stated they typically work with their market analyst to program activities for the area. Typically they include a dog park. They will look at a play area and interior amenities such as a computer lab room and a community area with a smaller kitchen.

Grasso asked about the material on the balconies. Young replied it would be fiber cement panels.

Peace questioned if the applicant's process is to keep this at the schematic design level until they are awarded NIFA funds. Skidmore stated that is typically what they do. When the credits are awarded, they will move forward with design documents.

Penn asked where the mechanical units are located. Young noted they haven't located them yet. They are looking at having a mechanical room on the lower level. Penn noted the parapet doesn't look tall enough to hide them. She would recommend making it taller if they are located on the roof. She thinks this will be a really great project. She is excited to have courtyards with southern exposure.

Hind commented he really appreciates the scale of the project and the parking. He believes this will work really well. He has a problem with a pedestrian entrance on Antelope Valley Parkway. Antelope Valley is a really important place in the City. This feels like it has turned its back on that It feels like it is missing a certain scale. He thinks of this building urbanistically as well and how it reads within the fabric of the city. The "Union" sign doesn't appear to be above the door. He likes the building a lot and thinks the massing is great but feels there could be some treatment to the front door. In his opinion, it doesn't need a change of material, just a change of attitude on what the entrance is, where it is. He would encourage them to look at that. The front door is somewhat ambiguous.

Grasso commented that she would encourage the applicant to think about some lighting. Other buildings have started to incorporate some lighting. It might help tie it to Antelope Valley a little.

ACTION:

Penn moved approval as presented, seconded by Hind.

Hind noted that the streetscape will be back for review. The applicant agreed.

Motion for approval carried 6-0: Canney, Deeker, Grasso, Hind, Peace and Penn voting 'yes'; Huston absent.

THE COYOTE/FINKE REDEVELOPMENT:

November 1, 2022

Members present: Canney, Deeker, Grasso, Hind and Penn; Peace declaring a conflict of interest; Huston absent.

Gil Peace appeared as applicant. He stated that this has been seen before. He pointed out the area of a new veterinary clinic. He showed the location of the former nursery building. There is also a building existing on the site. Previously they had shown a series of rowhouses that worked their way down the bike trail. They have now learned more information. As for the timing, the rowhouses will probably not be built for the next twelve months or longer. They have a PUD (Planned Unit Development) and redevelopment agreement in the works. He showed how the rowhouses would fit on the property. The spaces are dictated largely by easements that cut through this. They have learned they have a little less space from north to south from what was previously thought. He showed the layout of the houses. He showed the location of the bike path and Dead Man's Run. The development team is intending for the units to be similar. He doesn't want them to be cookie cutter though. They want them to have some individuality. He showed a view from the trail side. The developer would like a fence to separate the bike trail from the unit spaces. The materials will be traditional residential, James Hardie products and some stucco.

Canney thinks this is a cool project. He questioned the possibility of a fence. He knows that Parks and Recreation likes to mow a certain number of feet off the trail. He would check with them. He would establish the fence materials so there isn't a mix. Peace stated there has been discussions regarding fence height and materials. They are aware they need to pick the right fence. They want the bike trail to be an amenity. There will be a HOA (homeowners association). He would agree with having one option for fencing.

Grasso thinks the bike trail is an amenity. She likes the idea of a minimal fence. Canney believes it would be almost like another courtyard. Grasso thinks about residential neighborhoods. Everyone seems to sit in their garage and talk to their neighbors. Peace stated there is a debate in the office as well. Some people think the front door should be on the bike trail. He believes people that will live here will want access to the bike trail. Hind disagreed. He would push for

more separation. He likes the separation of public and private. He believes it will be successful either way. The trail gets a lot of use. Peace noted the site is relatively flat.

Peace noted that the veterinary clinic is phase one. They have to get a market analysis yet.

Grasso likes the color pop on the exterior. She thinks it should extend to both sides of the building. Peace agreed. He believes an accent color should be on both sides.

Hind wondered about the courtyards. Peace stated that in between, there is friends and family parking. The idea is that those will not be fenced. It lines up with an easement that goes there. This has evolved. The first pass had 29 units. Through the process, it has been bumped to 32. He would like to hear comments on that.

Hind believes the density is great. There isn't anything like this in Lincoln. Canney agreed. It has a desirable walkability. Peace believes there is a rehabilitation effort going on where the Sears used to be.

Hind wanted the applicant to clarify all fire questions. Peace noted those questions were answered a while ago. The intention is for Coyote Lane to only turn south on 70th Street. He showed the curve for a rescue vehicle. There is a deceleration lane. He believes this will clean up the merge lane. Canney asked if this will involve a private road or public street. Peace answered it will be a private drive.

Canney inquired if this will have a homeowner association with individual yards. Peace stated that a homeowner association has not been developed yet. The intent was that your back yard is yours, you can do what you want. Everything outside of that is homeowner association.

ACTION:

Canney moved approval, seconded by Grasso and carried 5-0: Canney, Deeker, Grasso, Hind and Penn voting 'yes'; Peace declaring a conflict of interest; Huston absent.

LFR STATION NO. 8: November 1, 2022

Members present: Canney, Deeker, Grasso, Peace and Penn; Hind declaring a conflict of interest; Huston absent.

Hind is the local architect and engineer for this project. BRW Architects from Texas is the architect of record. This station is built on an old cistern. This is on Van Dorn Boulevard and 17th Street. This will be a custom designed fire station for this site. There will be room for expansion. It is designed with the different zones needed for a fire station. The project has been extremely

thoughtful on its siting. The grade will be mitigated slightly. It also puts all personnel parking off Van Dorn Street. There will also be guest parking. They are looking for approval on the exterior elevation selection. The north side apparatus bay has a large bay. The north side is offices and storage along with other personnel spaces. There are living spaces and bathroom spaces. Fire stations used to have a hose drying tower. This design is referencing that function. There will be a reveal on the brick. The colors are a very restrained palette. Red brick is similar to Irving school. They are also proposing lap siding painted gray, double hung windows in a muted bronze. For the glass type, one side is clear and one side is dark. There are safety issues. There will be a pre-cast element with some text inlaid over the apparatus bay. For the roofing material, they are proposing onyx black high impact shingles. The fascia, soffit and downspouts will match the same metal color as the window. There will be pre-cast around the doors, brick and window sill. Above that will be the siding. BRW Architects presented about 14 different versions of the plan. The firefighters felt that this plan really felt like a home to them. The Mayor has signed a demo contract. The existing building will be demoed between now and the end of the year. They will go in for permits around January 2023. A contractor has been brought on board. They anticipate this will take about one year to build. They are very cognizant there is a school nearby. They will utilize a fence for the school and pool. They have been working with Parks and Recreation. There will be a walking trail. Many trees will come out. Parks will replace them at least one to one.

Canney thinks this is a handsome building. He would encourage some light on the tower. Hind pointed out the location of a frosted band on the tower that will be backlit.

Peace noted a bunker to the east. He questioned what is in there. Hind stated it is storage for Parks and Recreation. It used to be a community fallout shelter. It will be maintained throughout the project.

Hind met with Irving School, Irving Neighborhood and Country Club Neighborhood and has received positive feedback.

Penn wondered if this is designed by the same architect that did the other fire stations in town. Hind replied no. Penn believes the design quality is much better on this one. Hind noted it has been a group effort. They met with the Mayor. There has always been a presentation of options.

Grasso stated the renderings are very warm and inviting. She pointed out that the light color will be much lighter in the sun.

Peace asked about the process. He agreed with Penn that he likes this a lot more than some of the other recent fire dept projects. There are some really neat things people have done with civic buildings. He lives in the area. This intersection could use some sprucing up as well. It would be great if the fire stations would come before this group for advice before the project is complete and ready to go to bid. He has used the brick quite a lot. It has quite a different feel if you use

white or gray mortar. He thinks colored mortar like Irving School would be good. Hind believes that is what they will be using. He appreciates the comments.

ACTION:

Canney moved approval as presented, seconded by Penn and carried 5-0: Canney, Deeker, Grasso, Peace and Penn; Hind declaring a conflict of interest; Huston absent.

STAFF REPORT:

- Hind attended the Mayor's Art Awards ceremony. They pulled together a nice show of the 2021 and 2022 awards. Ed Zimmer received the Enersen Award. He was the second person to ever receive the award. Bob Ripley was the first.
- Hageman stated this will be her last Urban Design Committee meeting. She has accepted a job with Schemmer Associates. Everyone offered their congratulations.

There being no further business, the meeting was adjourned at 5:05 p.m.

https://linclanc.sharepoint.com/sites/PlanningDept-Boards/Shared Documents/Boards/UDC/Minutes/2022/110122.docx



URBAN DESIGN COMMITTEE STAFF REPORT

APPLICATION NUMBER Urban Design Record #22128

APPLICATION TYPE Advisory Review

ADDRESS/LOCATION 1900 K Street, Suite 100

HEARING DATE December 6, 2022

ADDITIONAL MEETINGS N/A

APPLICANT Beau Jepson, 402-489-1600, beau@hoppedevelopment.com

STAFF CONTACT Collin Christopher, 402-441-6370, cchristopher@lincoln.ne.gov

RECOMMENDATION: ADVICE ONLY

Summary of Request

The Antelope Tower Redevelopment project has been before the Committee several times. The initial redevelopment project was reviewed by UDC in March 2020, April 2020, and June 2020. Reviews included the landscaping and patio space along Antelope Valley Parkway. More recently, the developer appeared before UDC in June 2022, proposing to enclose a portion of the outdoor patio space for their first floor restaurant tenant on the west side of the building. As noted back in June, this is a significant change to what was previously approved. Thus, UDC's advice is being sought on the use of Tax Increment Financing.

An excerpt from that June 2022 meeting has been included as part of the agenda packet. UDC was generally supportive of the patio enclosure, but had some constructive feedback regarding materials/finishes and the location and treatment of the cooler.

Ultimately, the committee voted 6-0 to approve the concept "pending a final review of the design." The applicant recently applied for a building permit, thus requiring them to return to UDC for final design review.

The final plans attempt to address the committee's suggestions, resulting in the following revisions:

- 1) The cooler is now enclosed with a structure or frame that is complementary to the primary patio enclosure.
- 2) Overhangs have been added to the roof.
- 3) The roof design has been modified to incorporate a less opaque appearance through the use of a translucent roofing system.

Additional details can be found within the attachments.

Compatibility with the Design Standards

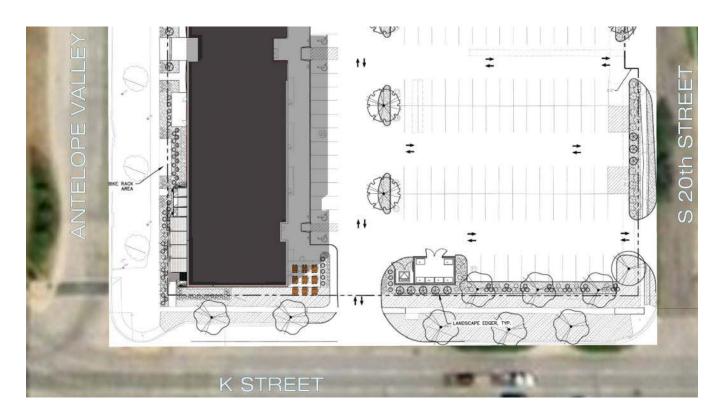
While the Downtown Design Standards do apply to this property, the enclosed patios that are being proposed do not appear to conflict with those standards in any meaningful way.

Recommendation

Advice only.

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ATTACHMENT A SITE MAP



ATTACHMENT B RENDERINGS











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EXCERPT FROM MEETING RECORD

Advanced public notice of the Urban Design Committee meeting was posted on the County-City bulletin board and the Planning Department's website.

NAME OF GROUP: URBAN DESIGN COMMITTEE

DATE, TIME AND Tuesday, June 7, 2022, 3:00 p.m., County-City Building, City

PLACE OF MEETING: Council Chambers, 555 S. 10th Street, Lincoln, NE.

MEMBERS IN Mark Canney, Emily Deeker, Jill Grasso, Peter Hind, Tom Huston

ATTENDANCE: and Gil Peace; (Michelle Penn absent).

OTHERS IN Stephanie Rouse, Collin Christopher and Teresa McKinstry of the

ATTENDANCE: Planning Department; Ernie Castillo and Dallas McGee of Urban Development Department; Corey Haselhorst with Rega

Engineering; Dolores Silkworth with Confluence; Kent Seacrest with Seacrest and Kalkowski; Matthew Wills with Studio 951; Tim Gergen with Clark & Enersen; Josh Neill; Beau Jepson; David Wiebe of Architectural Design Associates; Terry O'Leary with EPC Real Estate, Patrick Reuter with Klover Architects and Stacey Hageman of the Planning Department appeared via Zoom Video

Communications ©; and other interested parties.

ANTELOPE TOWER REDEVELOPMENT:

June 7, 2022

Members present: Canney, Deeker, Grasso, Hind, Huston and Peace; Penn absent.

Rouse stated the Commission has seen this project several times in the past. This is adding a patio space.

Josh Neill stated that Early Bird is a tenant for this space. This will be their first space in Lincoln. The proposed space consists of 356 square feet of enclosed patio space. This will be in the Telegraph District. This will be on the first floor. They are asking for an enclosed patio. The base will be red brick with glass overhead doors and a pitched roof. They have learned from their other locations that this patio is a must have for their space. This gives the customer an outdoor feel. He believes this will be an attractive addition to the area.

Hind asked about the large box depicted next to the patio space. David Wiebe stated he is working on the plan and the covered patio addition. The large box is a cooler. They are proposing

to wrap it with the restaurant graphics, Early Bird logo graphic. They needed room outside the building for a cooler.

Grasso asked if it will be smooth metal panels. Hathaway replied yes, on two sides. Grasso inquired if it would be offset from the windows. Wiebe believes it will be pretty tight. They don't have an exact size of the cooler yet. Grasso kind of likes something that takes away from the verticality of the building. She doesn't want it up against the building. She likes the idea of garage doors and that you can roll them up. She is not 100 percent sure about the roof. She doesn't want it to look like a school gym roof was slapped on. Wiebe stated the idea is a light metal structure. Grasso would suggest the applicant take a look at the material at Bread and Cup. It is channel plexiglass. That is just an idea. It feels like the steel members give more of a pergola feeling.

Hind thinks this could be approved and thinks it is appropriate. It feels like an outdoor seating area and the cooler were pushed up against the building. He would like to see them be more integrated. Perhaps a vertical trellis or something. Leon's has a brand new cooler. For here, it is going to look like a cooler. He believes there could be a better treatment. He would like to see a little more overhang so you can be in the space during a heavy rain. He thinks architecturally they aren't related. He believes there could be a way to have them more connected.

Grasso stated this could be a good prototype that is somewhat extended in a thoughtful way across the whole street front. She would plan on some roller shades or some way to get some shade.

Hind believes this should come back next month with a little more refinement on the design.

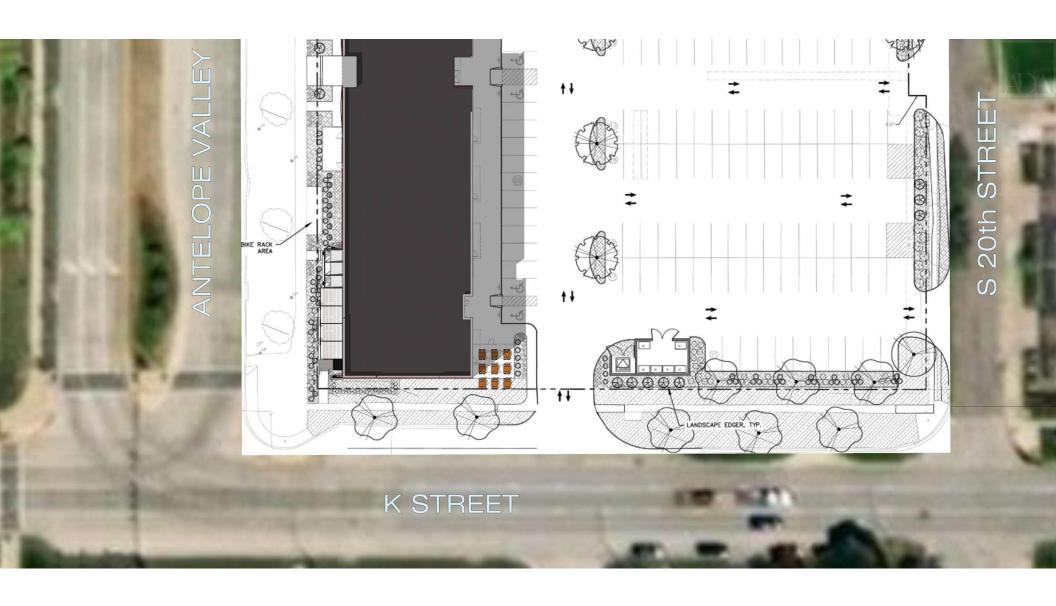
Canney doesn't want to discourage the tenant. Grasso agreed. Huston believes this could be approved subject to a final review of the design.

Grasso asked if anything was going on with the east side. Wiebe stated there will be outdoor seating. Approve in concept with review of the design.

ACTION:

Hind moved approval of the concept pending a final review of the design, seconded by Grasso and carried 6-0: Canney, Deeker, Grasso, Hind, Huston and Peace voting 'yes'; Penn absent.

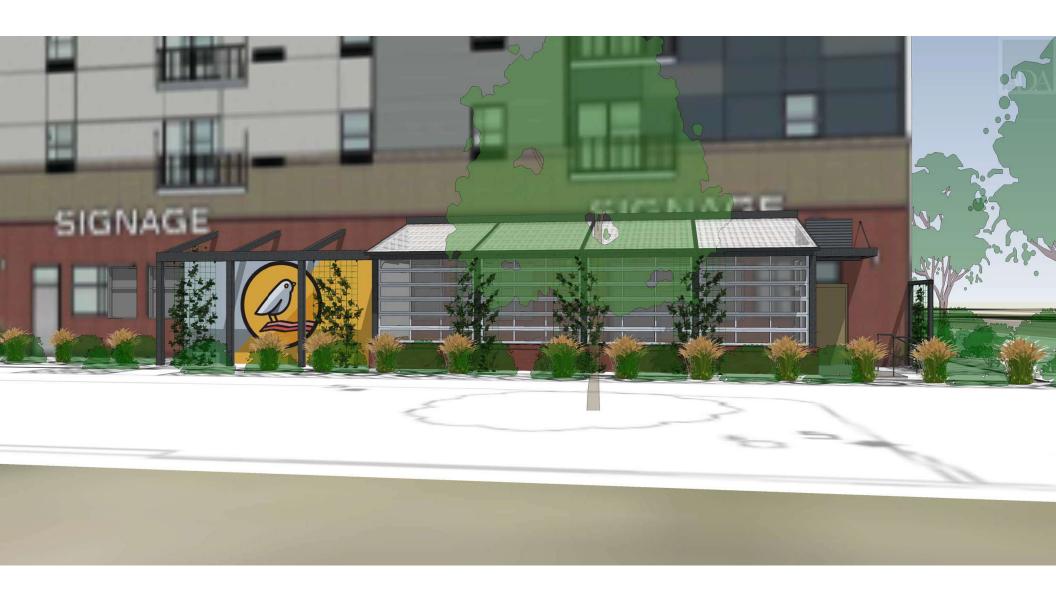
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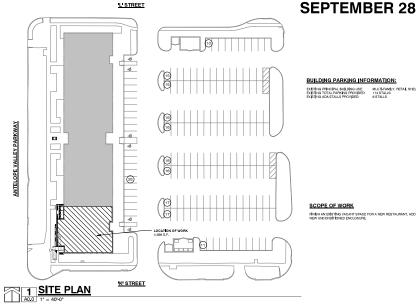


SEPTEMBER 28, 2022

HOPPE DEVELOPMENT 1900 K STREET, SUITE 100 LINCOLN, NE

- PERFORM ALL CONSTRUCTION WORK IN ACCORDANCE WITH ALL LOCAL GOVERNANS CODES TO INCLUDE, BUT NOT LIMITED TO BUILDING, TIRE, HEALTH AND ACCESSIBILITY. PROVIDE ALL RECUIRED PERMITS AND INSPECTIONS. PAYALL ASSOCIATED FERS

- 5 LB, CLASS A/B/C FIRE EXTINGUISHERS REQUIRED LOCATED AS PER PLANS MAX, TRAVEL DISTANCE TO EXTINGUISHER IS 75



	ABBREVIATIONS NOTE: GENERAL LIST - NOT TALL MAY APPLY											
ACS AFF	ACQUISTICAL CELLING SYSTEM ABOVE FINISH FLOOR ALUMINUM	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISHED FIND PAINE	KD KO	KNOCK DOWN KNOCK OUT	REC REF REFL REG	RECESSED / RECEPTICA REFERENCE DETAIL REFLECTED REQUITER					
ALT	ALTERNATE	FES FFE	PLARED END SECTION FINISH FLOOR EURATION (CIVIL)	LAM	LAMINATED LAVATORY	PEINF	REINFORCED					
BJO. BLKG BRG BTM	BY OWNER / BOTTOM OF BLOCKING BEARING BOTTOM	FG FIX	PURNITURE, FIXTURES & EQUIP. FIBERGLASS FIXTURE	LTL LVL	LEADER LINTEL LAMNATED VENEER LUMBER	S SCH SD SEC	SOUTH / SINK SCHEDULE SMOKE DAMPER SECTION					
CATV	UNDERGROUND CABLE TELE	FL FOB FOW	FLOW LINE FACE OF BRICK/BLOCK FACE OF WALL	LVT	LUXURY VINYL TILE LIGHTWEIGHT	SEP SHT SHTG	GEPARATE GHEET SHEATHING					
CIG CLG	CONTROL JOINT CELING CONCRETE MASONRY UNIT	FR FTG FTN	FIRE RATED FOOTING FOUNDATION	MAX MECH MET	MAXMUM MECHICAL METAL	SIM SQ FT SS	SMILAR SQUARE FEET STAINLESS STEEL					
COL COMP CONC	COLUMN COMPRESSIBLE CONCRETE	PV G	FELD VERIFY GAS	MFR MIN MISC MO	MANUFACTURER MINIMUM MIDCELLANEOUS MASONRY OPENING	STL STR/ STRUC	STEEL STRUCTURAL					
CONT	CONTINUOUS COORDINATE	GALV GL	GAUGE GALVANIZED GLASS	MTL	MATERIAL.	T&B T&G	TOP AND BOTTOM TONGUE AND GROOVE					
CPT CT CU	CARPET CERANIC TILE CONDENSING UNIT	GRAN GYP BD	GRANULAR (RLL) GYPSUM BOARD	N NIC NO	NORTH NOT IN CONTRACT NUMBER	T.O. T.O.S. T.O.W.	TOP OF TOP OF STEEL TOP OF WALL					
(D)	DEMOLITION	HC	HOLLOWCORE	NOM NTS	NOMINAL NOT TO SCALE	TG TYP.	TEMPERED GLASS TYPICAL					

L	SYMBOL LEGEND										
ſ	100)	DOOR NUMBER	?	NEW CONSTRUCTION KEYNOTES							
	3	WALL TYPE TAG (NEW CONSTRUCTION)	②	DEMOLITION KEYNOTES							
ſ	\triangle	ALUMINUM FRAME TYPE TAG	277 EL- 100'-0'	BUILDING ELEVATION							
	#	DOOR TYPE TAG	CT × CPT	FLOOR TRANSITIONS							
	€	H.M. FRAME TYPE TAG	Room Name	ROOM NAME / ROOM NUMBER							
	*	WOOD DOOR FRAME TYPE TAG	-	WALL ELEVATION							
	#	ALUM, CLAD WOOD WINDOWS		BUILDING / WALL SECTION							
I	•	TOILET ACCESSORY									

PROJECT DATA									
LEGAL DESCRIPTIONS ANTICLUTE TOWN AUGUST US 1. LICCOUN NETWORK AND TOWN AUGUST NOT THE SUMMERS OBTHOT 15 ONE. 15 ONE. 15 ONE STORY IN FEET BUILDING ON STORY IN FEET BUILDI	OCCUPANCE TYPE 4.2 HEIGHAND H THE OF CONSTRUCTION THE OF CONSTRUCTION THE ANGLE ANGLE FROM THE ANGLE ANGLE TENANT AREA 4.00 07								

	SHEET SCHEDULE	
ocucou t	NECHMATION	
AO.O	COVERSHEET	
	ODTETOREET	
ARCHITECT	URAL	
A1.1	FLOOR PLAN & ROOM FINISH SCHEDULE	
A2.1	SCHEDULES, REFLECTED CEILING PLAN, & INTERIOR ELEVATIONS	
A3.1	EXTERIOR ELEVATIONS, ROOF PLAN, & DETAILS	
STRUCTUR	AL.	
\$1.1	STRUCTURAL NOTES	
92.1	STRUCTURAL PLANS	
MECHANICA		
M0,0	HYAC GENERAL PROJECT NOTES & SYMBOLS	
M1.1	FIRST FLOOR HVAC	
M2.1	HYAC DETAILS	
M3,1	HYAC SCHEDULES	
PLUMBING		
P0.0	PLUMBING GENERAL PROJECT NOTES & SYMBOLS	
P1.1	PLUMBING PLAN - WASTE AND VENT	
P2.1	PLUMBING PLAN - DOMESTIC WATER	
P3.1	PLUMBING DETAILS	
P4.1	PLUMBING SCHEDULES	
ELECTRICA	L	
E0.1	GENERAL NOTES & SYMBOLS - ELECTRICAL	
ED1.1	ELECTRICAL DEMOLITION	
E1.1	FIRST FLOOR PLAN - LIGHTING	
62.1	FIRST FLOOR PLAN - POWER	
E3.1	SCHEDULES - ELECTRICAL & USHTING	
E4.1	ELECTRICAL RISER DIAGRAMS	
E5.1	SPECIFICATIONS - ELECTRICAL	











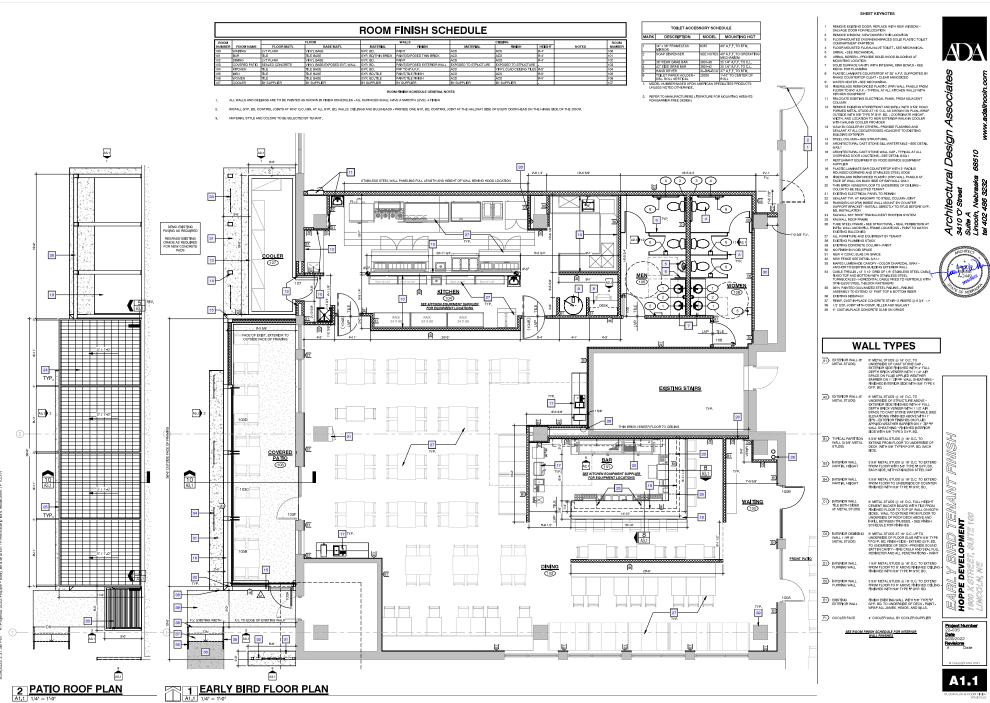
Architectural Design Associates P.C. 3410 'O' Street - Suite A Lincoln, Nebraska 68510 tel 402 486 3232 - fax 402 486 3380



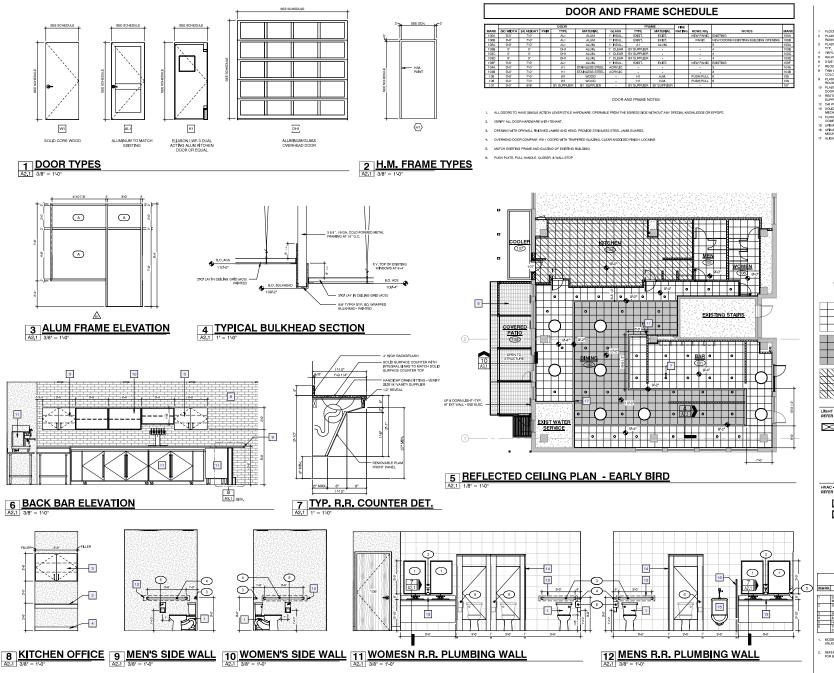


A0.0

EXISTING
EAST
EXPANSION JOB
ELEVATION
ELECTRIC(AL)
ELEVATOR
EQUIPMENT
EXPOSED







SHEET KEYNOTES

- FLOOR MOUNTED FLUSH-VALVE TO/LET SEE MECHANICAL PLASTIC LAMINATE COUNTERTOR AT 30' A.F.F. SUPPORTED BY RAKKS COUNTERTOR CLEET CLEAR ANDOZED PLASTIC LAMINATE UPPER WALL CABINET WITH ADJ. SHELVING TYP

- TYP.
 WINYLWALL BASE
 WANNALL BKY ROOF TRANSLUCENT ROOTING SYSTEM
 \$59', 196A, OCL-POPRIED METAL FRANING AT 16' O.C.
 RECESSED ON LIGHT SEE ELECTRICAL
 THIS BROW YERES FLOOR TO UNDERSIDE OF CELLING-COLORT TO BE ELECTRICAL





Associates

REFLECTED CEILING LEGEND

CEILING TILE SYSTEM: ARMSTRONG ULTIMA 2X2 WITH 15/16* RECESSED GRID



LIGHT FIXTURES -REFER TO ELECTRICAL FOR ADDITIONAL ITEMS

Or 244 OR 252 TROFFER - SEE ELECTRICAL

PENDANT - SEE ELECTRICAL

- ★ EMERGENCY EXIT LIGHT SEE ELECTRICAL

HVAC -REFER TO MECH, FOR ADDITIONAL ITEMS

TO LET ACCESSORY SCHEDULE



A2.1

39

7

10 COVERED PATIO SECTION

FIRST FLOOR

9 DECORATIVE RAILING

Architectural Design Associates 3410 to street Suite 4 Suite 4 to the suite 488 3232 to the su

HOPPE

A3.1

1/2" PLAM BOARD, COLOR TO

8 BAR HIGH WALL W/ COUNTER

PESTUARANT EQUIPMENT BY FOO SERVICE EQUIPMENT SUPPLIER

MAPES LUMISHADE CANOPY - COLOR CHARCOAL GRAY - ANCHOR TO EXISTING BUILDING EXTERIOR WALL

Design,

Architectural

Suite 7501 Linco

\$1.1

- A. GENERAL These general notes apply except where specifically overridden by notes on the drawings and/or details. Construction shall conform to the International Building Code (IBC), 2018 Edition and the city of Lincoln Nebraska Municipial Construction Code.
- Verify existing features and conditions (dimensions, elevations, etc.) upon which these drawings rely. Details are typical. For conditions not clearly understood, submit sketches and/or requests for information to the Engineer of Record for resolution.
- Omissions, conflicts, or misunderstandings between various elements of the contract documents, if any, shall be brought to the attention of the Engineer of Record for resolution before proceeding with the work
- The contractor shall submit a written request to the architectivengineer before proceeding with any changes, substitutions, or modifications. All work done by the contractor before receiving written approval shall be at the contractor's re-
- Refer to the other disciplines' drawings and coordinate information related to those other disciplines' systems, for items such as:
- a. Finish floor elevations, floor depressions, slopes, drains, curbs, pads, embedded items, openings,
- b. Size and location of all non-load-bearing partitions and all door and window openings.
- State and beauting in international and personnel.

 State framing hanger details.

 Dimensions not shown on the structural drawings.

 Waterproofing and waterstops.
- Pipe runs, sleeves, hangers, trenches, wall, roof, and floor openings, etc. not shown or noted
- Electrical conduit runs, boxes, outlets, etc. in walls and slabs
- Anchorage and bracing for mechanical, electrical, and plumbing equipment,
- Size and location of equipment anchors and ba Openings required but not shown on the structural drawings shall be submitted to the Engineer of Record for approval before they are constructed.
- Members required to support equipment from (or attach to it) the structure shall be designed and provided by the contractor supplying the equipment.
- Provide and maintain temporary bracing shoring, guying, or other temporary support during construction to assure correct and accurate structure geometry, and to avoid temporary overstresses.
- 11. Walls shall be adequately braced during construction until wall strength has been attained and all permanent supports are in place.
- Unless specifically approved by the Engineer of Record in writing, backfill shall not be placed against
 walls until the wall design strength has been attained and permanent support are in place.
- 13. The use of new construction materials for temporary support or storage of construction materials is restricted to the design capacity of the new construction at the time it is to be used. Equipment or materials had be placed so an oft to exceed the capacity of individual elements. Provide adequate, engineered shoring-bracing where design capacity is not sufficient.
- Construction loads shall not be placed on new concrete construction, including concrete fill on metal deck, for at least 7 days after concrete placement.
- 15 Do not use dimensions scaled from the structural drawings
- 16. Electronic AutoCAD drawings will be provided upon request of the contractor or subcontractor for a fee of two hundred fifty datases (250) per structural sheet. A waiter will be required to be agreed by a representation of the contractor is subcontractor batter be electronic diseasage are released. A copy of the valver will be made available upon request. The solder contains all provisions governing the valver will be made available upon request. The solder contains all provisions governing the VPA+SCEDPA III.
- B. DESIGN CRITERIA
- 1. Structural design is based on the International Building Code (IBC), 2018 Edition

2.	Design Live Loads		

a. Roof Live Load

n	sign Snow Loads	
	•	
a.	Ground Snow Load, P(g)	25 ps
b.	Flat Roof Snow Load, P(f)	20 ps
c.	Snow Exposure Factor, Ce	1.0
d.	Snow Load Importance Factor, Is	1,0
e.	Thermal Factor, Ct	1.0

- Thermal Factor, Ct f Snow drift has been considered
- 4. Design Wind Load a Basic Wind Speed (ASD) 115 mph (ultimate)
- d. Components and Cladding
- Seismic Design:
 - a. Occupancy Category
 b. Spectral Response Coefficients Sds = 0.082a Sd1 = 0.072a Design Category
- 6 Allowable Soil Bearing Pressure 1500 pst

COMPONENTS AND CLADDING WIND LOADS										
Height										
(ft)		Zone 1	Zone 2	Zone 3	Zone 4	Zone 6				
0-25	Positive +	10 psf	10 psf	10 psf	12.8 psf	12.8 psf				
0-25	Negative -	12.1 psf	17.0 psf	26.9 psf	14.0 psf	18.0 psf				
00.00	Positive +									
26-50	Negative -									
51-65	Positive +									
	Negative -									

- Table is based on ASCE 7-10 Figures 6-11A D. Distance a = 4.4
- C. FOUNDATIONS
- Foundation design is based upon an assumed soil bearing capacity. See Design Data for the allowable soil bearing pressure. Geotechnical Engineer shall perform special inspections datalited in the "Verification and Inspection of Soils" Table or IBC Table 1704.7
- Contractor is responsible for appropriate, adequate shoring and bracing of foundation excavations
- Contractor shall provide for de-watering if water is present in excavation
- Step continuous wall footings or grade beams uniformly in 2-0" maximum vertical steps where elevations vary. Sloped footings are permitted only if so detailed.
- Over-excavated footings shall be backfilled with lean (fic = 2000 psi) concrete or as directed by the geotechnical engineer
- D. SPECIAL INSPECTION
- Special impaction shall be conducted in accordance with Section 1704 of the International Bullding Code (IIIC) by an independent agency employed by the owner. The contractor shall accordance are compared in the contractor of the

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (IBC TABLE 1704.3) spection Task ntinuous Periodic High Strength Bolting Field Welding including single-pass fillet welds exceeding 5/16" inch in size multi-pass fillet welds, and complete and partial penetration groove welds.

	VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC TA	BLE 1704.4)	
	onneklan Tank		Inspection
mst	oction Task Inspection of reinforcing seel and placement Inspection of cash-in-place anchors prior to and during placement of concrete.	Continuous	Periodic
1,	Inspection of reinforcing steel and placement		Х
2.	Inspection of cast-in-place anchors prior to and during placement of concrete.	-	Х
3.	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform stump and air content tests, and determine temperature of concrete.	х	

	VERIFICATION & INSPECTION OF SOILS (IBC TABLE 1704	.7)	
Loor	ection Task	Frequency of	Inspection
11103	900011188K	Continuous	Periodic
1.	Verify materials below footing are adequate to achieve the design bearing capacity.	-	х
2.	Verify excavations have been excavated to proper depth and have reached proper material		х
3.	Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	×	
4.	Prior to placement of controlled fill, observe subgrade and verify that site has		х

- E. STRUCTURAL STEEL
- Structural steel shall be supplied, detailed, fabricated, and erected in accordance AISC Specifications, latest edition.

Mea	nber/element specificatoin:	
a.	W Column	ASTM A992, Grade 50
b.	W Beams and Girders	ASTM A992, Grade 50
c.	HSS Steel Tube	ASTM A500, Grade B, Fy = 46 ksi
ď.	Pipe Columns	ASTM A53, Grade B, Fy = 35 ksi
e.	Angles, Channels, Misc. Shapes	ASTM A36
f.	Column Base Plates	ASTM A36
a.	Shear Tabs	ASTM A36

- h. Other ASTM A36 3. Connections
- b. Anchor Bolts ASTM F1554, Grade 36, 55, 105 ksi c. Other ASTM A325N
- e. Headed Studs ASTM A108 3/4" Diameter Welding shall conform to A.W.S. specifications and shall be performed by certified welders
- E70XX Butt welds shall be complete penetration welds except where specified as partial penetration. All fillet welds shown are minimum except where required by stress.
- Increase welds to AISC minimums sizes based on thickness of material joined.
- When connections are not shown fabricator shall select AISC simple shear connections for non-composite beams capable of carrying 50% of the total uniform bad for the given size, span, and grade of beam, as tabulated in AISC tables, latest edition, for allowable loads.
- 8. All steel members and connectors in contact with treated lumber and/or exposed to weather shall be
- Anchor botts in contact with treated lumber shall be not dipped galvanized with a equivalent of thickness of G-90.

- When the ambient air temperature will be below 50° F, the contractor shall conform to ACI report by Committee 306 "Cold Weather Concreting".
- When the ambient air temperature will be above 70° F, the contractor shall conform to ACI report by Committee 305 "Hot Weather Concreting".
- Committee out that resource continuing, including water-cement ratio, shall be established in accordance with section 5.3 of ACI 316 on the basis of field sepreience and tail mixtures with materials proposed to use in this project. For each ratin specified, stamp decurrants on a conceive protons, reviewed and approved by the For each risk specified, stamp decurrants or accordance to the conceive season and approved the continuing the specified of the continuing the specified or required strength or required strength or required strength or required strength.
- 5. Specified concrete types and 28 day minimum concrete compressive strengths
- Grade Beams and Footings 3500 psi, normal weight - Sand/Gravel W/C = 0.48 4000 psi, normal weight - Limestone W/C = 0.45 4000 psi, normal weight - Limestone W/C = 0.43
- Submit plan to the Architect for the location of all proposed joints not indicated on the drawings.
- All concrete shall be reinforced unless specifically noted "not reinforced"
- Outside diameter of conduit or pipe to be embedded in concrete slabs shall not exceed 30% of the minimum concrete thickness unless specifically detailed otherwise. 10. Stacking of conduits is prohibited
- Projecting corners of beams, columns, walls, etc. shall be formed with a 3/4 inch chamfer, except where noted otherwise on the drawings.
- 12. Thicknesses of concrete stabs and toppings on the structural drawings are minimum thicknesses. Centractor shall make allowances for additional concrete required to compensate for beam and ided deflections and to maintain specified blerances. Maximum length of wall placement in each direction shall be 60 feet. Maximum length of grade beam placement in each direction shall be 100 feet.
- Use chairs or other support devices recommended by CRSI to support and the reinforcing bars p placing concrete. Reinforcing steel for slabs on grade shall be adequately supported on precast units. Lifting the reinforcing of the grade during placement of concrete is not permitted.
- 15. Control joints shall be installed in slabs on grade. Control joints shall have a maximum length to width ratio of 1,25.1. Install control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise.

- G. STEEL REINFORCEMENT
- Contractor shall submit fabrication and placement drawings detained in accordance with ACI 315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
- 2. Reinforcing steel bars shall conform to ASTM A615. Grade 60 deformed bars unless noted otherwise
- Reinforcing steel bars that are welded shall conform to ASTM A706, Grade 60 Welded wire fabric shall conform to ASTM A185
- Reinforcements and embedments shall be accurately positioned and secured against displacement prior to placing concrete. If construction traffic will be allowed on reinforcement provide sufficient support to preven damage or displacement.
- Welding (including tack welding) of reinforcement bars is prohibited except where detailed or approved in writing by the Engineer of Record
- All reinforcement crossing construction joints shall be continuous, or shall be made effectively continuous by the use of fully developed lap splices, dowels, or approved couplers.
- Provide continuous reinforcement wherever possible; splice only as shown or approved; stagger splices Provide corner bars in walls and footings the same size and number as continuous horizontal reinforcing lapped with main steel with proper lap length
- Reinforcement shall be detailed and placed to minimize the amount of concrete placed. It shall be as near to concrete surfaces as possible, within specified tolerances, within the reinforcing protection limits specified in ACI 318.
- Reinforce all floor fills as specified by the Engineer with 6x6-W1.4xW1.4 welded wire fabric at mid-de except where otherwise noted or detailed.
- 12. Unless otherwise noted, principal reinforcement shall have the following protection Surfaces cast against the earth or permanently exposed to earth 3 in Slabs Beams, Columns 3/4 in (top), 1 in (bot) Walls (Interior surface only) Ties Stirrups 1.1/2 in
- Refer to "Concrete Reinforcing Bar Lap Splice Schedule" for reinforcing lap lengths.

		R	EINFOR	RCING E	BAR SP	LICET	ABLE					
Bar Size		Pc = 300	00 psi			fc = 40	00 psi			fc = 50	00 psi	
Dail Oile	REG	ULAR	T	TOP		REGULAR		TOP		ULAR	TOP	
	CLA	ASS	CL	ASS	CL	ASS	CL	ASS	CD	ASS	CL	ASS
	A	В	A	В	A	В	A	В	Α	В	Α	В
#3	16"	21"	21"	27*	14"	18"	18"	24"	13"	17"	17"	22"
#4	22"	28"	28*	37"	19"	25"	25"	33"	17"	22"	22"	29"
#5	27"	35"	36*	47"	24"	31"	31"	40"	21"	28"	28"	37"
#6	33"	43"	43"	56*	28"	37"	37"	48"	25"	33"	33"	43"
#7	48"	62"	62*	81"	42"	54"	54"	70°	37*	48"	48"	63*
#8	55"	71"	71"	92"	47"	62"	62"	81"	42"	55"	55"	72
#9	62"	80"	80*	104"	54"	78"	78"	102°	48"	62"	62"	81"

- Table Motion:

 1. This selectable hald be used for a flast righter in concrete members urises noted otherwise.

 1. This selectable hald be used for a flast righter in concrete members urises noted otherwise.

 2. Clear N° Agelore may origh an insert in cases where SSN of less of the bias are applied within the lap agric length.

 2. Clear N° Agelore may origh an insert in cases where SSN of less of the bias are applied within the lap agric length.

 3. First oright registration of the selection.

 4. First oright registration of the large state of the large state of the right state.

 5. Find a large state data is extended all on whee 1.7. or ones, of final concrete in exact before the enterior gible.

 5. Table are are stated an extended all ones whee 1.7. or ones, of final concrete in exact before the enterior gible.

 5. Table as are stated an extended all ones whee 1.7. or ones, of final concrete in exact before the enterior gible.

 5. Table as are stated an extended all ones.
- code minimum. See General Structural notes for additional requirements
- H POST-INSTALLED ANCHORS
- 1. Epoxy Anchors
- For concrete, epoxy shall be HIT-RE 500-SD by Hittl Corporation, or HIT-HY 200 by Hittl Corporation.
 For masonry, including concrete masonry, hollow brick, and multi-wythe brick, epoxy shall be HIT-HY 70 by Hittl Corporation, these that be used in hollow applications.
- nu by instructions continued that are used in minimum appreciations.

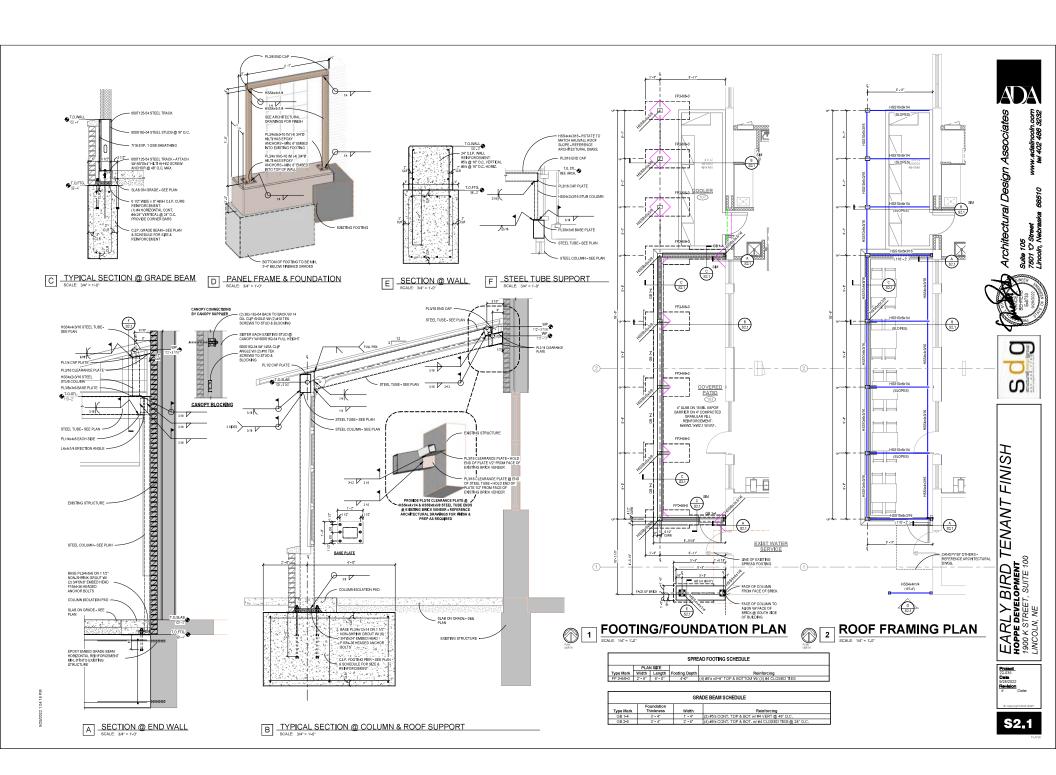
 Follow all immunificiatives recommendations and CC-ESR for epoxy installation.

 Allemative epoxies may be used if an ICC-ESR approval for use in cracked concrete is subne Engineer of Record prior to use.

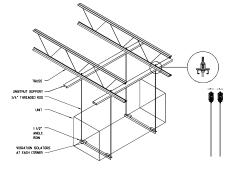
 Masonry epoxy anchors shall be installed in grout-filled cells U,N,O, on plans.
- 2. Mechanical Anchors
- For concrete, the mechanical anchor shall be Kwik Bolt TZ-CS by Hith Corporation, or Kwik Bolt 3 by Hith Corporation. Follow all manufacturer's recommendations and ICC-ESR for mechanical anchor installation Afternative mechanical anchors may be used if an ICC-ESR approval for use in cracked concrete is submitted to Engineer of Record prior to use
- For concrete, screw anchor shall be KH-EZ by Hitti Corporation, or Titen HD by Simpson Strong Tie
 Follow all manufacturer's recommendations and ICC-ESR for screw anchor installation. Alternative screw anchors may be used if an ICC-ESR approval for use in cracked concrete is submitted to Engineer of Record prior to use
- 4 Powder Actuated Fasteners
- For steel, fastener shall be X-U Universal Knurled Shank Fasteners by Hilli Corporation. Follow all manufacturer's recommendations and ICC-ESR for fastener installation.
- Atternative fasteners may be used if an ICC-ESR approval for use in cracked concrete is submitted to Engineer of Record prior to use

J. LIGHT GAGE FRAMING

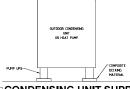
- Material, design and manufacture shall be in accordance with the latest edition of "Cold Formed Steel Design Manual" of the American Iron and Steel Institute.
- Provide tracks, lintels, clip angles, joist bridging, shoes, reinforcements, fasteners and accessories to provide a complete metal frame system in accordance with manufacturer's recommendations.
- Bearing stude must be fabricated with full stud end seated against track web. Do not use stude that have cut at punchout. Stude shall be securely attached to the flange or web of both the top track and bottom track
- All field cutting shall be done by shearing or sawing. Torch cutting of light gage members is prohibited.
- Install horizontal wall bridging after studs are erected and before construction loads are applied. Bridging shall be spaced at no more than 3-5° o.c. vertically.
- Light gage non-bearing studs shall have slip connection at the top track and shall be full bearing against the bottom track web with studs securely attached to the flange or web of the bottom track unless noted
- Frame wall openings larger than 2"-0" by adding 1/2 of the disrupted studs to each jamb. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs by welding/iscrewing and space jack studs same as full highlight studs of well.
- No splices in studs, joists, headers or other load carrying elements may be made without prior written consent and specific details from the structural engineer of record. Fastening of light gage steel members to structural steel shall be with #12 TEK screws or with 0.177* shank diameter powder actuated fasteners.
- 10. Install bridging in joists systems at 8'-0" o.c. max
- All galvanized fight gage steel members shall be formed from steel having a galvanized coating meeting the requirements of ASTM A663 with a G60 hot dipped galvanized coating.
- Metal studs having a design thickness of 16 gage or greater shall have a yield strength of 50ksi. Studs of a lighter gage shall be 33ksi.



1 DUCT SUPPORT DETAIL



2 SUPPORT FRAME DETAIL



3 CONDENSING UNIT SUPPORT DETAIL

HVAC SPECIFICATIONS

CENERAL CONSTRUCION METHODS

- DINANCES, RULES &
- ALL WORK SHALL BY THE ALL PREVABLE COSTS, CREMINERS, RALES BY CORRECT TO SHALL BY THE ALL DIVIDED COSTS, CREMINERS, BASE SHALL BY THE CALL DIVIDED COSTS, CREMINERS, BASE SHALL BY ALCOCAUNE WITH LIGHEN MOREIN MACE IN PERFORMANCE WAS IN THE CHARGE OF THE COSTS OF THE
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 ALLS PRICES TO ANY MOSK SERVE CODE.

 ALL SPACES THAT IS THE PROTECTION OF THE THE PROPERTY OF THE CONTRACTOR. ALL UTILISES A PROJECT OF THE CONTRACTOR. ALL UTILISES AND THE PROPERTY OF THE PROPER
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- CONTRACTOR STALL FRUME.

 PROJECT.

 CONTRACTOR SHALL FROWDE OFFRATION E MAINTENANCE MANALS AND GIMES

 TRANSIN TO GUMER AND/OR COMERS REPRESENTATIVE ON DEPRATION AND

 MAINTENANCE PROJECURES. TRAINING SESSORS SHALL PROVIDE GIMER WITH

 TRAINING ON EQUIPMENT AND OVERALL SYSTEM.

<u> 230500 ÆNERAL REQUIREMENTS - HVAC</u>

- SUBHITIALS
 PRODUCT DATA: FOR THE FOLLOWING
 1. ALL SCHEDULED EQUIPMENT AND PPINE
 2. WELDING LERTIFICATES.
 3. WARRANTIES.
 4. COMPLETE CERTIFIED TAB REPORTS
 5. THREE ISI COPIES OF OLM HAMJALS
- DELIVERY, STORAGE, AND HANDLING DUCTIVING MICH. STORED ON SITE TO PREVENT INTRAKE OF DRIT, DEBIS, AND MISTURE, DUCTIVIORK MUST BE CLEAN ON THE NSIDE BEFORE INSTALLATION.
- ARRANGE FOR DUCT SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR HYAC INSTALLATIONS.
 COORDINATE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS
- COPPON DICEMPENT:

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 RESTALL DUTLYINGEN AND/OF ACCESSED LEE ERNS TO ALLOW SUFFLICINT SPACE
 FOR CEUN FAMILE REDIVINA.

 RESTALL ESCUTORIONS FOR PRETENTATIONS OF WALLS, CEUNIS, AND FLOORS
 SERVEYS AREA ON TREAMED FOR CINCO-POLICID PICES.

 SERVEYS AREA ON TREAMED FOR CINCO-POLICID PICES.
- PERMANENT SLEEVES ARE NOT REQUIRED FOR HOLES FORMED BY REMOVABLE PE SLEEVES. INSTALL SLEEVES FOR DUCTS PASSING THROUGH CONCRETE AND MASONRY
- NETALL SELVES FOR DUTS PASSION THROUGH CONSETT. AND MISSION VIOLEN AND MISSION STATES AND MISSION STATES AND MISSION STATES AND MISSION SERVICES. AND FLUCTOR AND DUTS AND MISSION STATES AND FLUCTOR STATES AND FLUCTOR AND F
- ACCIONIST TO MAINFACTURER'S RICOMPRIACHORS.

 RETALL HANGER'S EXPORTES, AND ATTACHOR'S AS RECURED TO PROPERLY SUPPORT DICTURER FROM THE BULDON'S TRICTURE.

 SUPPORT DICTURER FROM THE BULDON'S TRICTURE.

 CONSTRUCTION VAMES SET WIS A VAME REMORE WITH SUPPORT'S REPORTED TO A VAME REMORE WITH SUPPORT SUPPORTICULAR TO YAME REMORE WHICH BE FOUND THE TO LOT. T VAMES SHALL BE PROVIDED IN ALL SCUARE LEGIONS.

 REPROPERCULAR TO YAME REMORE SHALL BE FOUND THE DATE AT THE PROPERTY OR THE PROPERTY OF THE PROPERTY OR THE
- SIPE BETWEEN 2 STORE OF GALANDED DEET STEEL.

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- HECHANICAL FASTDRESS WITH SEALS, GASKETS OR MASTICS
 HESH AND MASTIC SEALING SYSTEM PINST BE LISTED AND LABELED IN
 ACCORDANCE WITH UL HISH OF UL HISHBI
 TAPE PRIST BE LISTED AND LABELED IN ACCORDANCE WITH UL HISH OF UL
- 1980.

 HARZ CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED THERMISTAT AND CONTROL WRING TO THERMISTATS, MOTORIZED DAMPERS, TRANSFORMERS, THE-CLOCKS, ETC. ALL MOTORIZED DAMPERS TO BE 22 VOLT.

 ALL PEPMS AND DUCTIMORS SHALL BY LABELD WITH PRE-PRINTED, CO.ORG-COEDD WITH LETTERNS MATCHISTON, DAWNING SECOND AND SCHOLAND AND SCHOLAND FLORE AND SCHOLAND FLORE.
- PREL DE COUPPONT
 ALL COUPPONT SALL SE LABELED WITH ALLEMAN STANLESS STEEL
 PRASTIC LABELE TO WITHSTAMD SEPHI EQUIPMENT TAKE LABELS PAST E A
 NOT FROM O'S VICED BY TALL AND SECURED TO THE COUPPONT WITH RIVETS
 OF FROM ALM ADMISTRES.

250700 HVAC INSULATION

- GORDAN, GOLATION RECORDINATES
 STRAIGH, AND TOWN STREAMS, ACCESSORS, NO FROMES WITH SHOOTIN,
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 STRAIGH, AND TOWN SERVERS, RIFE OF WOLD THROUGHOUT THE LICENT OF
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- NITH VAPOR-BATRIER MASTIC.

 NSTALL INSULATION CONTINUOUSLY THROUGH HANGERS AND AROUND ANCHOR
 ATTACHMENTS.
- ATTACHMENTS.
 FOR INSULATION APPLICATION WHERE VAPOR BARRIERS ARE INDICATED, EXTEND
 NSULATION ON ANDHOR LEGS FROM POINT OF ATTACHMENT TO SUPPORTED ITEM
 TO POINT OF ATTACHMENT TO STRUCTURE. TAPER AND SEAL ENDS AT
- TO FORM OF A THACHMENT TO STREAMED. THERE AND SEAL DOES AT ATTACHMENT TO STREAMED WITH WARRAND MERROR MICH.

 THAT ATTACHMENT TO STREAMED WITH WARRAND MERROR MERCELL THAT OF THE MERRY SEAL RESEATION TO REALITIN RESIDES WITH A MERROY OF STRAINED MERCELL MEMBERS AND MERCELL MERCELL MEMBERS AND MERCELL MEMBERS AND MEMBER
- OVER CHAMBEED MEAS. EXTEND PATCHES AT LEAST A INCHES 100 MM BEYOND CHAMBEED MEAS. ADHER, STAPLE, AND SEAL PATCHES SMILAR TO BUTT JOINTS. INSTALL INSULATION CONTINUOUSLY THROUGH ALL ROOF, WALL, AND FLOOR PENETRATIONS.
- 12 FRE-RATEO INSULATION SYSTEM INSTALLATION
 A. WHERE FIRE-RATED INSULATION SYSTEM IS INDICATED, SECURE SYSTEM TO
 DUCTS AND DUCT HANGERS AND SUPPORTS TO HAINTAIN A CONTINUOUS FIRE
 RATING.
- HALING. INSULATE DUCT ACCESS PANELS AND DOORS TO ACHIEVE SAME FIRE RATING AS
- NSTALL FIRESTOPPING AT PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.

250593 TESTING, ADJUSTING, AND BALANCING FOR HVAC

- 11 SUBSTITUS
 A SUBSTITUS OFFS OF CERTIFIED TAB WRITTEN REPORTS REPORTS MUST BE AFFORD TO SUBSTITUDE

 D. DISSON THAM IS THE RIGHT TO SPOT CREEK AND COMPRISH BALLANCED STSTEPS ANY DISCOSPANCES SHALL BE BROUGHT TO THE ATTENDANCED CONTRACTOR AND ANY REDALANCED SHALL BE DONE AT NO ACCURATE OF THE BALLANCED CONTRACTOR AND ANY REDALANCED SHALL BE DONE AT NO CANCERSON, COST.
- 12 ONLY APPROVED CONTRACTORS ALLOWED
 A. ARE AND FILID PMARENTNI, 27 S MISSON STREET, WILBER NE 68465
 B. BLICON ARE AND MATER BALLANING, 2995 L STREET, COMMAIN NE 69139
 C. SYSTEMS HANGGEWIST AND BALANING, 295 SE OLSON EN, MAJAZE AN
 PHT LETSING AND BALANING, 9915 S NAZIO, COMMAIN 6913

- TO ACHEVE SPECFED PRESSURE DEFERENTIALS.
 COORDINATE WITH MANUFACTURER ON MAMMA AND MAXIMUM WITH SET POINTS
 FOR EQUIPMENT, DAMPERS, AND VALVES, WORK WITH CONTROLS TO SET VALUES.
- . Final, REPORT GENERAL: PREPARE A CERTIFIED WRITTEN REPORT, TABLILATE AND DIVIDE THE REPORT INTO SEPARATE SECTIONS FOR TESTED SYSTEMS AND BALANCED
- REVAIN TO SEPARATION SHEET AT THE FRONT OF THE REPORTS BADDER,
 SOBRET AND SEALED BY THE CRETTERD TESTING AND BALANCING INSIDER.
 RILLOR & LIST OF INSTRUMENTS USED FOR PROCEDURES, ALONG WITH
 PROOF OF CALBRATION.

235000 HVAC EQUIPMENT

- (COMMAN DISCRIPTION OF THE COMMAN OF THE COM
- PERFORMANCE AND SYSTEM PERFORMS.

 DISTALL NEW HEIDER IN EACH HOW TWITHIN WE DAY'S AFTER SUBSTANTIAL COPPLETANT.

 DEFINE THE SUBSTANTIAL COPPLETANT OF THE SUBSTANTIAL COPPLETANT.

 DEFINE THE SUBSTANTIAL CONTROL CLARANCES.

 TEST AND ADJUST CONTROL AND SAFETES. REPLACE DAMAGED AND MAILTREATMENT CONTROL AND SAFETES.

255500 HVAC AIR PLICT ACCESSORIES

- 2272A TWYL. PK. U.S. T. T. L. C. T. S. C. T. S.
- INSTRUCTIONS.

 FLANCE CONNECTIONS SHALL BE ADD OR ROLL FORM TO MATCH CONNECTING DUCTWORK NO FOAM TAPE OR PLASTIC CLEATS ARE ALLOWED.
- DUTHORN NO FORM THEF OR PLASTIC CLEATS ARE ALLUMID.

 THENNEY MANS SHALL BED DUBLE WALL CONSTRUCTION AND BE CONSTRUCTED ALCOSORING TO SMALMAS HAVE DUIT CONSTRUCTION STANDARDS ACCESS DOORS SHALL BE CONSTRUCTED ACCIONED TO SMANLAS HAVE DUTTORSTRUCTION STANDARDS REPOYDE FORM GASKETING.

 FLEXBLE CONNECTIONS SHALL COMPLY WITH UL 189, CLASS 1. CONNECTORS MUST BE RESTALLED WITH TO FS.ALK.

GENERAL PROJECT NOTES

- ALL REQUESTED REYIT MODELS INVITI SHALL BE PROVIDED AT A DHARGE OF 1950. PRIOR TO TRANSMISSION OF FLES, THE REQUESTING PARTY MUST SION AND RETURN "DOLUMENT DISCLAMIRE" TO ARS.
- ALL SPECIS REQUESTED IN CAD COMO FORMAT SHALL BE PROVIDED AT A DHARCE OF 252/SPECT DINARMIT SEGOL FOR FREE ALARM AND FRES SHARMLER CONTRACTORS. ALL DHARCE STORMER REQUESTING CAD FLES SHALL BE CHARGED SHO/SPECT IMPHAM SHOOL FREIS, THE REQUESTING FARTY HAST SIGN AND RETURN TOOLUMENT DISCLAMPENT TO AES.
- ALL EQUIPMENT SHALL BE PROPERLY ALIGNED, LUBRICATED AND DILED BEFORE START UP AND FINAL ACCEPTANCE BY OWNER.
- ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED AND ALL BARE, SCRATCHED OR MARRED AREAS SHALL BE PAINTED WITH FACTORY PAINT OR AN OWNER APPROVED EQUAL.
- ANY SPECIAL TOOL NEEDED FOR ASSEMBLY, MAINTENANCE OF ADJUSTMENT OF ANY EQUIPMENT SHALL BE SUPPLIED TO THE DIMER AT NO ADDITIONAL COST.
- ALL DUT AND GOLPHINI SHALL BE PROTECTED DEFING CONSTRUCTION AND ELLAND AS INDIDD BEFORE ANY FAIR IS TOWNED ON THE SECOND THE SECOND
- ALL ROUND PIPE SHOWN MUST BE HARD PIPE, FLEX DUCT MAY DNLY BE 3'-0" MIN 5'-0" MAX NEAR THE DIFFUSER AS SHOWN IN THE SUPPLY DIFFUSER DETAIL. PIPING RUNNING IN THE WEBBING OF THE JOISTS MUST ALSO BE HARD PIPE.
- NO BUSHINGS SHALL BE ALLOWED, ONLY ECCENTRIC FITTINGS WILL BE ALLOWED.
- ALL PIPING SHALL BE (UT TO LENGTH AND REAMED TO PULL INSIDE DIAMETER WITH THE PROPER TOOLS, SPRINGING OR RUBBING OF PIPES ARE NOT ALLOWED.
- ALL EXPOSED PPING PENETRATING WALLS, CELINGS AND FLOORS IN ALL ROOMS EXCEPT MECHANICAL ROOMS SHALL HAVE CHROME-PLATED SOLID STEEL ESCUTCHEONS PROVIDED.
- ALL WORK DONE SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL CODES, LAWS, ACTS AND ORDINANCES.
- ALL THERMOSTATS SHALL BE WALL HOUNTED UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE COORDINATED WITH OWNER / ENGINEER / ARCHTECT PRIOR TO INSTALLATION.
- ALL (OLS INSTALLED SHALL HAVE PROPER (LEARANCE FOR REMOVAL WITHOUT INTERFERENCE.
- ALL ACCESS PANELS SHALL HAVE ADECUATE (LEARANCE THE MINHUM MANUFACTURER RECOMMENDED (LEARANCE OR 36" CLEARANCE, WHICHEVER IS GREATER MUST BE MANTAINED FOR ALL EQUIPMIN' Y VALVING METOMS ACCESS, CONSULT THE ENGINEER IF THIS IS NOT POSSIBLE.
- THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH AL APPLICABLE LOCAL, CITY, STATE AND NATIONAL CODES, LAWS, ACTS AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION. THE OWNERS INSURANCE COMPANY REQUIREMENTS. HANDFACTURER'S STRICTEST REQUIREMENTS AND RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK IMMEDIATELY AND INFORM THE OWNER'S REPRESENTATIVE IN WRITHES THE OWNER'S REPRESENTATIVE WILL THEN BE RESPONSIBLE TO TAKE THE APPROPRIATE ACTIONS.
- DEAMORS HE LASCELY STEPMENT ANTICE. THOUGH A LOT OF DETAMOR ARE LASCELY STEPMENT ANTICE. THOUGH A LOT OF DETAMOR HAVE SHOWN HERY ARE NOT INTENDED TO STORE UNITED AT THE CONTRICTOR SERVICIAL PROPERTY TO LONGTONS TO PROVICE A FAULT FAINTINAL STEED HER HE MEMORITOR FOR ANTICE AND THOUGH AND UNITED HER SHALL BE REPOYDED FOR A PULLY FAINTINAL STEED HER THE DESCEN MEMORIT SOUTHING SENT OF SHOWN ON THE FLAME.
- WHEN ALL WORK IS COMPLETED NO MATERIALS SHALL BE LEFT ON SITE UNLESS SPECIFICALLY REQUESTED BY THE OWNER. ALL MATERIALS TO BE DISPOSED OF PROPERLY.
- DURING SMOKE/DUST PRODUCING OPERATIONS, SMOKE DETECTORS SHALL BE COVERED AND TEMPORARY FAINS SHALL BE USED TO EXHAUST AREA OF SMOKE/DUST. COORDINATE WITH OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE WITH THE ELECTRICAL CONTRACTOR ALL ELECTRICAL REQUIREMENTS FOR THE ELECTRICAL REQUIREMENT FOR DESCRIPTION, ALL REQUIREMENT FOR DESCRIPTION OF THE MECHANICAL CONTRACTOR / SUPPLIES AT NO ADDITIONAL COST TO THE PROJECT.
- UNLESS A ADDENDUM CAN BE ISSUED IN TIME TO CORRECT THE SITUATION.
- IT IS THE RESPONSIBILITY OF THE MANUFACTURER / SUPPLIER TO MAKE SURE ALL LIMITS RIT IN THE REQUIRED SPACE INTENDED WITH RECOMMENDED MAINTENANCE AND ACCESS CLEARANCES, ANY CHARGES RECEED WILL BE THE RESPONSIBILITY OF THE

- PROVIDE APPROVED MANUFACTUREN'S ACCESS DOOR IN ALL HARD CEILINGS ADJACENT TO ANY EQUIPMENT/CONTROLS THAT IS NOT ACCESSIBLE FROM BELOW BY ITSLEF. COCROMATE FINSH COLOR WITH ARCHITECT PRIGHT TO GREJERING.
- ALL EQUIPMENT WITH ELECTRICAL HARD WIRED CONNECTIONS MUST BE UL LISTED ASSEMBLES OR THE PROPER FILLD TESTING FOR FILLE DATASED TO A UL LISTED ASSEMBLE THE DE NULLIED WITH DOCUMENTATION PROVIDED TO THE AUTHORITY HAVING JAFSDIKTEN, OWNER AND DESIGN TEAM UPON COMPLETEN.
- AA. ALL WORK SHALL BE COORDINATED BETWEEN TRADES BEFORE ANY CONSTRUCTION/ FARRICATING BEGINS IN A "KICK-OFF" MEETING, CONTACT ENGINEER/ ARCHITECT FOR QUESTIONS.
- PROVIDE A PREVENTATIVE/ PREDICTIVE MAINTENANCE SCHEDUL IN HICROSOFT WORD FORMAT FOR ALL EQUIPMENT TO OWNER/ ENGINEER AT THE COMPLETION OF THE PROJECT.
- DONNERS AT THE COPPLICATION OF HE FOODET.

 REGIS APPROAGE ADJOURNMENT, LECTERICAL AND FURBHON SASSTHURDS PROCEED FOR THE PROPERTY OF THE PROPE
- 1. PHOUSED SUBSTITUTION WILL NOT AFFEL DIFFERENCE AND FUNCTIONAL CLEARANCES. 9. PRODUCT DATA AND SHOP DRAWING FOR PROPOSED SUBSTITUTIONS MIST BE PROJECT SPECFIX AND INCLUDING ALL COMPONENTS IDENTIFIED FOR COMPARISON TO THE CRIGINAL DEPORTURE. h. The Burden of Proof of the Equivalence on the Proposed Substitution is on the Proposer.
- O. A 15'-0" HAMMA (LEARANCE PLUST BE REPT BETWEEN ALL PECHANICAL FRESH AR INTAKES AND ALL PLUMPAN YENTS, DOMAIST YENTS AND LOOMIST FAMS. A 2-0" HAMMA CLEARANCE HASTS BE REPT BETWEEN ALL DEVEROPMENTAL ARE DOMAIST DESTROOPS, ETC.) AND ALL CPERABLE OPENNES INTO BUILDING.
- FF. EXACT LOCATION OF ALL PIPING, DUCTS, DIFFUSERS, GRILLES AND
- HH. FLEXIBLE DUCT CONNECTIONS WITH IT SLACK SHALL BE INSTALLED IN BOTH THE SUPPLY AND RETURN DUCTS AT CONNECTION TO EQUIPMENT.
- IL ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.

- *M. ALL REFRIGERANT PIPING MUST BE SIZED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS
- DO. ALL DUCT AND DUCT CONNECTION TO EDIAPHENT SHALL BE SEALED WITH EITHER FOL. TAPE OR DUCT SEAL COMPOUND ON ALL JOINTS INCLUDING LONG TRANSVERSE JOINTS IN SOLVARE DUCT.
- PAINTED BLACK ON THE INSIDE INCLUDING INSULATION AND PINS BEHIND ALL GRILLES AND DIFFUSERS.
- OQ HVAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED THERMOSTAT AND CONTROL MISSIG TO THERMOSTATS, MOTORIZED DAMPERS, TIME-LLOCKS, ETC. ALL NOTORIZED DAMPERS TO BE 24 VOLT.
- PRIOR TO CONSTRUCTION SEE FOOD SERVICE DRAWIN APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT REDUIREMENTS.
- TT. VERIFY EXACT LOCATION OF EQUIPMENT WITH EQUIPMENT SUPPLIER AND ARCHITECTURAL PLANS PRIOR TO BEGINNING CONSTRUCTION.
- LUL DUCT SIZE TO DIFFUSERS, REGISTERS, GRILLES, ETC. SHALL BE SIZE OF NEOK UNLESS OTHERWISE STATED.
- WW. ALL DUCT ELBOWS SHALL BE RADIUS-RADIUS OR SQUARE WITH
- XX. COORDINATE EXACT LOCATION OF ALL WALL/ ROOF PRINTATIONS WITH THE ARCHITECT, ENGAGER, AND EXISTING STRUCTURAL CONDITIONS PRIOR TO INSTALLATION, MAINTAIN ALL EXISTING ROOF WARRANTIES.

HVAC SYMBOLS KEY NOTE

> CROSS SECTION INDICATOR D = DETAIL DRAWING P = PARTIAL DRAWING R = RISER DIAGRAM S = CROSS SECTION DRAWING ХX - NEW TO EXISTING CONNECTION DUCT BREAK MARK FIRE DAMPER IN DUCT ⊢kasn SMOKE DAMPER IN DUCT

—|arso FIRE/SMOKE DAMPER IN DUCT **—**рю MOTORIZED MECHANICAL DAMPER IN DUCT MANUAL VOLUME DAMPER IN DUCT BACK DRAFT DAMPER IN DUCT TURNING VANES IN ELBOW NSIDE AND OUTSIDE RADIUS ELBOW \Rightarrow

 \bowtie SUPPLY AIR DUCT CROSS SECTION RETURN AND FRESH AIR DUCT CROSS SECTION EXHAUST AIR DUCT CROSS SECTION

DWS DOUBLE WALL INSULATED SPIRAL DUCT SUPPLY DIFFUSER SUPPLY REGISTER RETURN CRILLE

ROUND TO ROUND FITTING

RA RETURN AIR DUCT

FA FRESH AIR DUCT REA RELIEF AIR DUCT

MUA MAKE UP AR DUCT

XA EXHAUST AR DUCT

X-X EQUIPMENT DESIGNATION

(S = SENSOR C = CO2 SENSOR P = PRESSUR H = HANDITY SÉNSOR T = THERMOSTAT XXXX = LINTYSYSTEM SENSOR IS SERVING BAS = BUILDING AUTOMATION SYSTEM MD = MONTORRES PURPOSE ONLY

SENSOR XXXX S - SENSOR

SQUARE TO SPIRAL FITTING SA SUPPLY AIR DUCT

EXHAUST GRILLE SQUARE TO ROUND FITTING HIGH EFFICIENCY DUCT TAKE OFF

- EE. EXACT ROUTING OF ALL DUCT AND PIPING THROUGH THE ROOF/CELING SHALL BE COORDINATED WITH STRUCTURE.
- SUPPORTS SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, CELING GRID, HYAC, PLUMBNS FOXTURES AND FIRE SPRINKLES PPING, SEE ELECTRICAL LIGHTING PLANS AND ARCHTECTURAL REFLECTED CELING PLANS FOR COORDINATION.

- ALL EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURE WITH "ALL THREAD" HANGING ROD AND "UNI-STRUCT" SUPPORT CHANNEL RUBBER GROMMETS OR VIBRATION ISOLATION PADS MUST BE INSTALLED AT ALL SUPPORTS.
- LL. ALL EQUIPMENT SHALL BE SUPPORTED WITH A 1-1/2" ANGLE IRON FRAME. FRAME SHOLLD NOT BLOCK OR RESTRICT ACCESS IN ANY MAY, RUBBER GROWNETS OR VERATION ISOLATION PADS MUST BE INSTALLED AT ALL SUPPORTS.
- NN. ALL BRADES ON RETURN CRILLES SHALL BE PARALLEL TO THE FLOOR AND THE GRALLE SHALL BE ORIENTED SO THAT THE BLADES POINT TO THE CRIME IF MICHIES ABOVE SHOT AFF AND PONT TO THE FLOOR IF HOLNIED BELOW SHOT AFF.

- RR. ALL DAMPERS SHALL BE INSTALLED AT AN EASILY ACCESSIBLE LOCATION IN THE DUCT.

- VV. CONTRACTOR IS RESPONSIBLE FOR ALL TRANSITIONS, ELBOWS, OFFSETS IN DUCT TO MAKE SYSTEMS FIT WITHIN SPACE AND STRUCTURE PROVIDED.

Associates

Design 68510 **Architectural**





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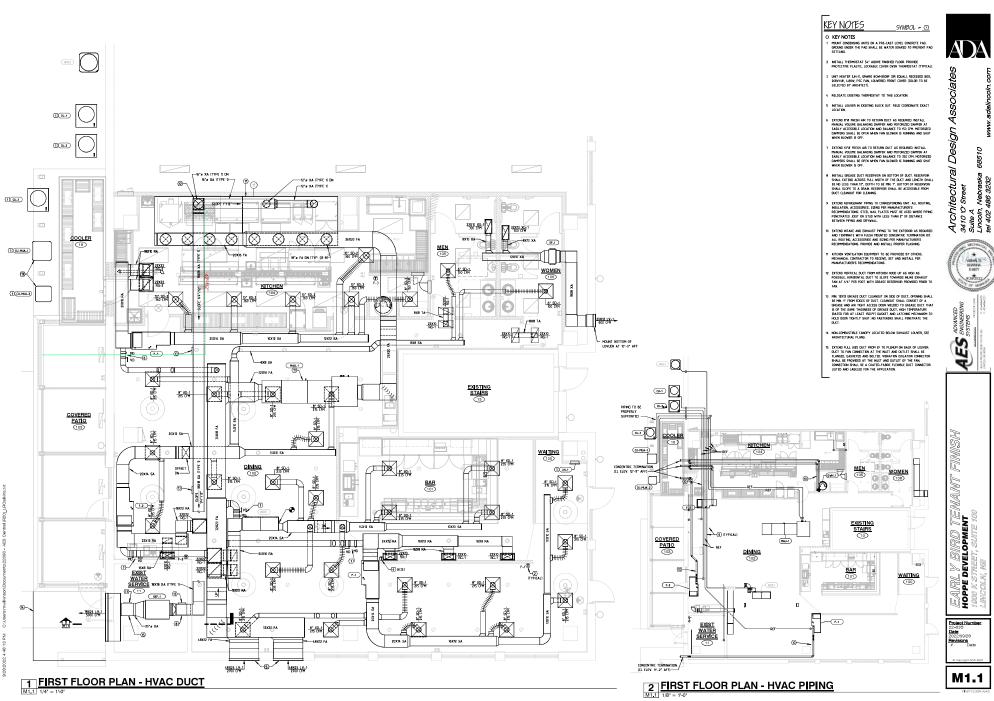
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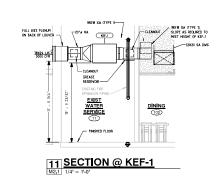
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M2.1

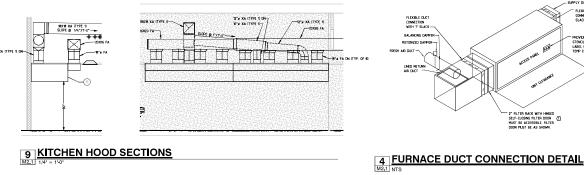


DETAIL NOTES GENERAL NOTES

1 DAMPER DETAIL
M2.1 NTS

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MANUAL



9 M2.1 1/4' = 1'-0'

32

KITCHEN HOOD ON KITCHEN HOOD OFF DINKG OCLDIED DINKG OCUDIED ALL VALUES ARE N CFH ALL VALUES ARE N CFH MAU-1: 4 100 FA MAU-1: 0 FA F-1: 350 FA F-2: 350 FA F-2: 350 FA F-3: 350 FA F-3: 350 FA F-3: 350 FA F-3: 350 FA MOTOTAL 5,300 FA N TOTAL 5,300 FA N TOTAL 5,300 FA EF-1 600 XA EF-1 600 XA #13 IKHI: 5000 XA #13 IKHI: 0 XA OUT TOTAL 5,600 XA OUT TOTAL 600 XA BUILDING PRESSURE -300 CFM BUILDING PRESSURE +600 EPM

HVAC SCHEDULES

OUCT CONSTRUCTION					DUCT INSULATION							
DACT	DUCT LOCATION	SPACE	MATERIAL	TYPE	CONNECTION	TYPE	MATERIAL	SKIN TYPE	THORNESS	DENSITY LB/FT 3	MIN R VALUE	NOT
EXHAUST / RELEF AIR	CONCEALED	CONDITIONED	GALVANZED STEEL	SMGLE WALL	SUP & DRME	WRAP	FINERGLASS	ALUMNUM FSK JACKET	1"	3/4	3	1,2,
exhaust / relef air	CONCEALED	UNCONDITIONED	GALVANZED STEEL	SNOLE WALL	SUP & DRME	MRAP	FINERGLASS	ALUMINUM FSK JACKET	r	3/4	5	1,2,
EXHAUST / RELEF AIR	CONCEALED	PARTIALLY CONDITIONED	STEEL		SUP & DRIVE	MRAP	FIBERGLASS	ALUMNUM FSK JACKET	r	3/4	5	1,2,
FRESH AIR	CONCEALED	CONDITIONED	GALVANZEO STEEL	SINGLE WALL	SUP & DRIVE	MRAP	FIBERGLASS	ALUMNUM FSK JACKET	1"	3/6	3	1,2,3
FRESH AIR	CONCEALED	UNCONDITIONED	GALVANIZEO STEEL	SNGLE WALL	SUP & DRIVE	WRAP	FIBERGLASS	ALUMNUM FSK JACKET	r	3/6	5	12
FRESH AIR	CONCEALED	PARTIALLY CONDITIONED	GALVANZED STEEL	SINGLE WALL	SLIP & DRIVE	MRAP	FIBERGLASS	ALUMNUM FSK JACKET	r	3/4	3	1,2,3
FLUE	CONCEALED / EXPOSED	UNCONDITIONED / CONDITIONED	SCHEDULE 40 PVC	PVC PIPE	PRIMED AND GLUED	-	-	-	-		-	1)
RETURN AIR	CONCEALED	CONDITIONED	GALVANIZED STEEL	SNGLE WALL	SUP & DRME	LINER	FIBERGLASS	ACRYLIC POLYMER ANT-MICROBIAL COATING	1/2*	2	2	1,2,
RETURN AIR	CONCEALED	UNCONDITIONED	GALVANIZED STEEL	SINGLE WALL	SUP & DRME	LINER	FINERGLASS	ACRYLIC POLYMER ANT-MICROBIAL COATING	1-1/2*	1-1/2	5	1,2,
RETURN AIR	CONCEALED	PARTIALLY CONDITIONED	GALVANZED STEEL	SINGLE WALL	SUP & DRIVE	LINER	FIBERGLASS	ACRYLIC POLYMER ANT-MICROBIAL COATING	1-1/2*	1-1/2	•	1,2,
SUPPLY AR	CONCEALED	CONDITIONED	GALVANZED STEEL	SINGLE WALL	SUP & DRME	WRAP	FIBERGLASS	ALUMINUM FSK JACKET	1"	3/4	3	1,2
SLPPLY AR	CONCEALED	UNCONDITIONED	GALVANZED STEEL	SINGLE WALL	SUP & DRME	MRAP	FIBERGLASS	ALUMNUM FSK JACKET	3*	3/6	8	u
SUPPLY AR	CONCEALED	PARTIALLY CONDITIONED	GALVANZED STEEL	SINGLE WALL	SLIP & DRIVE	WRAP	FIBERGLASS	ALLMINUM FSK JACKET	r	3/4	5	u

SPACE DEFINITION

PARTILLY TORNINGNO SPACE A SPACE THAT HAS A THE PREPARATIRE DEFERRING RETURN THE AND DUST AND HITE SURGINADING DEATER THAN 5° EXAMPLES INCLUDE ATTLE SPACE DIGHT IN ROBLATION ON ROOT, GRANL SPACE, ORAGIC, MICHAEL SPACE DIGHT ROBLATION ON ROOT, GRANL SPACE, ORAGIC, AND ROBLATICIONAL ROBLATICIONAL ROBLATICIONAL ROBLATICIONAL ROBLATICIONAL SPACE.

<u>EXPOSED.</u> ANY VISIBLE DUCT IN ANY PUBLIC OR OCCUPIABLE SPACE. EXAMPLES INCLUDE: STORAGE ROOMS, CLOSETS

CONDITIONED SPACE: A SPACE THAT HAS A TEMPERATURE DIFFERENTIAL BETWEEN THE AR IN THE DUCT AND THE SURRDUNDING LESS THAN 15° EXAMPLES INCLUDE: ABOVE CELLING RETURN PLENUM SPACE, HEATED AND COOLED SPACE.

UNCONDITIONED SPACE: A SPACE WHOSE TEMPERATURE IS THE SAME AS OUTDOORS OR WORSE (PURTHER FROM ROOM SET POINT) OR IS THE OUTDOORS, EXAMPLES INCLUDE ATTIC WITH INSULATION AT CELLING, DUCT CHASES.

MOST STRENGS FROM TOOLS IT SPECIAL OF ITS THE COLLEGES CAMPACES BALLES

JACK MINISTER, AND INCLUDING CONSISTENCY OF THE COLLEGES CAMPACES TO CLEAN IN THANKS, CORE, AND A THANKS, AND THE STEERING TO CLEAN IN THANKS, CORE, AND A THANKS, AND THE STEERING THE STEERING THE COLLEGES CAMPACES TO CLEAN IN THANKS, CORE, AND THE STEERING THE COLLEGES CAMPACES CA

DIFFUSERS, ARILLES, REAISTERS AND LOUVERS

MARK	FOCTURE	MANUFACTURER	MODEL II	DAMPER	FINISH	MOUNTING TYPE	DESCRIPTION AND OPTIONS
I V-1	LOUNER	GREENHECK		DATE	BY ARCHITECT		
LV-1	LUUVEN	UNEENHELK	ESJ-401		BY ANCHITECT		EXTRUDED ALUMINUM, HORIZONTAL BLADES AT 45°, BIRD SCREEN, RAIN
						MOUNT	RESISTANT, PROVIDE SIZE AS SHOWN ON DRAWINGS.
RG-1	RETURN GRILLE	NAILOR	4360	-	WHITE	LAY-IN	24 GAUGE STEEL 24" X 24" OR 12" X 24" PANEL PROVIDE NECK SIZE S
							SHOWN ON DRAWINGS
RG-2	RETURN GRILLE	NAILOR	4360A		WHITE	LAY-IN	ALUMINUM 24" X 24" OR 12" X 24" PANEL PROVIDE NECK SIZE S SHOW
							DRAWNGS
SD-1	SUPPLY DIFFUSER	NAILOR	UNI		WHITE	LAY-IN	24 GAUGE STEEL, 24" X 24" PANEL, PROVIDE NECK SIZE AS SHOWN ON
							DRAWNGS
50-2	SUPPLY DIFFUSER	NAILOR	ARNS		WHITE	LAY-IN	ALLIMINUM, 24" X 24" PANEL, PROVIDE NECK SIZE AS SHOWN ON DRAW
XIG-1	EXHAUST GRILLE	NAILOR	4360	OPPOSED BLADE	WHITE	LAY-IN	24 GAUGE STEEL 24" X 24" OR 12" X 24" PANEL PROVIDE NECK SIZE S
						l .	SHOWN ON DRAWINGS

DIFFLISERS, CRILLES, RECISTERS AND LOUVERS SCHEDULE NOTES
CORDINATE FINISH COLDR WITH ARCHITECT, LOCATION AND MOUNTING TYPE FOR ALL REGISTERS, CRILLES AND DIFFLISERS

EVHALIST FANG

<u> </u>	NUZITN	N2						FAN MO	TOR DATA				AREAISI	
MARK	HANUFACTURER	MODEL #	(FH	ESP. WG	FAN TYPE	HP	VOLT	PHASE	RPH	SONES	DRME	FAN LOCATION	SERVED	NOTES
EF-1	GREENHECK	(SP-A300	600	0.50	(ENTRIFUÇAL	FRAC	120	1	1035	2	DRECT	CELING 105	RESTROOMS	1
					NUNE			l					105, 106	
F-101111	CCENTCOL	MILL HOW	_											

EXHAUST FAN SCHEIZLLE NOTES 1. Fan Shall be provided with Backgraft Damper, Broscreen and Thermal Element Switch.

FURNIACES

UNIW	1012									
							GAS HEATING	ELECT	RICAL	
MARK	MANUFACTURER	FURNACE MODEL	EVAP. COIL MODEL	CFM	ESP. N W.C.	BLOWER HP	NPUT (MEH)	VOLT	PHASE	NOTES
F-1	TRANE	4TX(D000063	S9V20120U5PSA	1950	0.50	1	120.0	120	1	1,2,3,4
F-2	TRANE	4TX(D000063	S9V2D120USPSA	1950	0.50	1	120.0	120	1	1,2,3,4
F-3	TRANE	4TX(D0000S3	S9WZD12QU5PSA	1950	0.50	1	120.0	120	1	1,2,3,4

CONDENSING UNITS

				DX 000	NG			ELECT	RICAL		
MARK	MANUFACTURER	MODEL	TOTAL MBH	SENS, MBH	STAGES	EER	YOUT	PHASE	MCA	MOP	NOTES
OU-1	TRANE	4TTA4060	59.4	45.8	- 1	12	208	3	21	35	1,5
[U-2	TRANE	4TTA4060	59.4	45.8	1	12	208	3	21	35	1,5
CU-3	TRANE	4TTA4060	59.4	45.8	1	12	208	3	21	35	1,5

- FIRMACE AND CONCENSION UNIT SCHEDULE MOTES

 AL DEFINITE MODE OF ALL TRANSPORTS OF START, AND PREMIUM ARE SO I WE RETURN ARE

 1 RETURN ARE PLETE RACK SHALL SE REVOKED WITH LESS.

 ORGERIES COST PREMIUM TO STANLE SE REVOKED WITH LESS.

 ORGERIES COST PREMIUM TO STANLE SE REVOKED WITH LESS TO SERVES AND DEVELOPMENT SHALL THE MAINTENANCE PROVING

 AND STREET SECUTION AND AUTO-OF HAVE SHITCH INFRONTATI SHALL HAVE SHATTEN MACLES PROVING.

 CONCINENCE UNIT SERVES WITH LINES LAW SHATCH INFRONTATI SHALL HAVE SHATTEN MACLES PROVING.

HOPPE

Design.

68510

Architectural L 3410 O'Street Suite A Lincoln, Nebraska 68: tel 402 486 3232

AES.

FIMISH

EMANT

M3.1

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P0.0

Back to Top

PLUMBING SPECIFICATIONS

GENERAL CONSTRUCION METHODS

- ALL WORK SHALL BE PER ALL APPLICABLE CODES, ORDINANCES, RULES & REGULATIONS, AS WELL AS PER LOCAL UTILITY REQUIREMENTS AND THOSE OF OTHER AUTHORITIES HAVYNG JURISDICTION, THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH CURRENT PROCERN NEUSTRY STANDARDS USING HIST GRADE EQUIPMENT & MATERIALS
- DERBOT TAXORS NUCLEITS STANDARS USED INST GRACE COPPERT & MATISMAS.

 AND AT PROVINCES INCIDENT TO CONTRACT TO A LITE REPORTED. THE ALL PROVINCES.

 IT SHALL BE THE CONTRACTOR SERPONSHIPT TO VISIT THE JOS STEE AND SECON INTERPRETATION OF THE MATISMAS AND SECON SHALL AS WITH CONTRICTED COLUMNS SHALL AS WITH CONTRICTED COLUMNS SHALL AS SHALL AS WITH CONTRACTION OF THE MATISMAS AND SHALL AS WITH A SHALL AS MADE AND SHALL AS SHALL AS WITH A SHALL AS A SHALL AS WITH A
- ALL SPACES MUST BE KEPT COMPLETELY CLEAN, A DUST BARRIER AND NEGATIVE AIR PRESSURE IN MORK AREA IS RESPONSIBILITY OF CONTRACTOR, COORDINATE WITH OWNER IDMINUST DUCT OUTDOORS!
- IDMANS DUCT OUTDOORS!

 ALL OUTTON & PAYONING S THE REPROREBILITY OF THE CONTRACTOR, ALL WORK SHALL BE COME AN AKAT & WORKPANKE HANDER BY SELLED DRAFTSHIN PPE OF DEMOST HOROGE FLOORS SHALL BE REPROREBLET OF IT SEZIE OF COORDINATE HAND SHALL BE REPROREBLET ON FIRST ANY DAMMEE CAUSED TO THE PROBLET WHITHOUT DESTO TO THE OWNER, THE PROBLET OF THOSE OF THE PAYON FOR TH
- NEER FOR CLARIFICATION AS SOON AS POSSIBLE AND BEFORE INSTALLATION. THE PRACTOR SHALL BID THE LARGER QUANTITY OR BETTER QUALITY OF WORK, IF THERE
- ARE CONFLICE.

 FREE & SHORE PRESENTY OF ALL MALLS, FLOORS, COLINOS, ETC. SHALL BE MAINTAINED,
 BARRIERS SHALL BE PROVIDED AS ROLLINGT, HATDRIALS USED SHALL BE UL TLASSHIED

 FACTION FAUNDLE AMPROVED, ASS TOLLINGTON SHALL BE FOR MANAGEMENTS.

 FOR THE THE PROVIDED AS TOLLINGTON SHALL BE FOR MANAGEMENTS.

 CONTRACTOR SHALL SHAPE LECTIONN CORTS OF SHOP DRAMMES DETALING ALL

 MITERIALS & QUENTLY REPORTS DO BE USED.

- MATERIA'S EQUIPMEN PROPROSED TO BE USED.

 CONTRACTOR SHALL QUARANTEE ALL METABLES, COUPPENT & LABOR FOR A HINMAN PERSON OF ONE YEAR LINESS A LONGER PRIOR DESCRIPTION LESS METHER PROPOLITO E STANL ACCIPION OF WORK CONTRACTOR SHALL PROPROSE PROPER PROCESS OF WORK CONTRACTOR SHALL PROPROSE PROPER PROCESS OF WORK CONTRACTOR SHALL PROPROSE PROPERTY OF WORK CONTRACTOR SHALL PROPROSE PROPERTY OF WORK CONTRACTOR SHALL PROPROSE PROPRIED AND THE CORD DEPARTION AND CONTRACT FRAMEN TO OWNER MOORE CONTRACTOR SHALL PROPROSE PROPRIED AND THE CONTRACTOR SHALL SHALL SHALL PROPROSE PROPROSE PROPRIED AND THE CONTRACTOR SHALL SHALL SHALL PROPROSE PROPROSE PROPROSE AND THE CONTRACTOR OF WORK PROPROSE PROPROSE AND THE CONTRACTOR OF WORK PROPROSE PROPROSE PROPROSE AND THE CONTRACTOR OF WORK PROPROSE PROPROSE AND THE CONTRACTOR OF WORK PROPROSE PROPROS

20500 GENERAL REQUIREMENTS - PLUMBING

- SUBMITTALS
 PRODUCT DATA: FOR THE FOLLOWING:

 1. ALL SCHEDULED EQUIPMENT AND PIPING.
- WELDING CERTIFICATES.
 WARRANTES.
 THREE 131 COPIES OF ORM MANUALS
- DELIVERY, STOYAGE, AND HANDLING
 BLUVERY PRIS AND THIS SWIFT PACTORS AND THE DELIVERY PRIS AND THIS SWIFT PACTORS AND THE DELIVERY PRE DIED DAMAGE, AND TO
 REVENUE BITHAND OF DIET, ELERS, AND ROSTLING.
 STORE PLASTIC PRIS PROTECTED FROM DRECE SALEMET, SUPPORT TO PREVENI SAGGING
 AND SEGURD.

- COMMINION PET SPATIS, DANIS, SAIDS, AND DEVINES IN MALTINES STRUCTURE
 SPATIS, DANIS, SAIDS, AND DEVINES IN MALTINES STRUCTURE
 CONSTRUCTION OF CONSTRUCTION OF A MALTINES OF CONSTRUCTION OF
- PPING SYSTEMS COMMON REQUERMENTS
 BEAMON ET LOSS SOMEWATES, AND DISSEMS MODIFIED CONTROL COLLEGES AND APPLICATIONS WERE
 BEAMON ET LOSS SOMEWATES, AND DISSEMS MODIFIED SAN APPLICATIONS WERE
 BEAMON ET LOSS SOMEWATES AND DISSEMS AND APPLICATIONS TO ANY OWNER MODIFIED SAN AND APPLICATIONS AND APPLICATIONS AND APPLICATIONS TO LATOUT ARE
 REPORTED FOR COMPANIENT DISSEMS.
- CONSIDERATIONS. NOTALL PPING AS INDICATED UNLESS DEVIATIONS TO LECTURAL APPROVED ON COORDINATION DRAWNINGS.
 PROVIDE PIPE LABELING ON ALL NEW PIPING WITH PRE-PRINTED, COLOR-CODED WITH
 PREVENENT OF THE PROPERTY OF THE PROPER LETTERIO MATCHING CRAINING DESIGNATIONS AND SHOWNER FOW DIRECTION. LETTERIOR MASS BE A HANNEM OF 1-12" IN SIZE PPE LABILLS SHALL BE ON ALL PIPPIG ABOVE ACCESSIBLE CELLARIS, DEPOSED AREAS, TENNELS AND IN HEOMANCAL ROOMS EVERY YOR AND AT ALL ACCESS DOCKS. VERFY LABEL COLDRING SCHOOL WITH ENGINER AND OWNER PRIOR TO ORGENING.
- install pring in concealed locations, unless otherwise indicated and except in
- EQUIPMENT ROOMS AND SERVICE AREAS.
 INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHEITED UNLESS SPECIFICALLY INDICATED OTHERWISE.

 NSTALL PPING ABOVE ACCESSIBLE CELINGS TO ALLOW SUFFICIENT SPACE FOR CELING
- PANEL REMOVAL.

 NSTALL PIPING TO PERMIT VALVE SERVICING & TO ALLOW FOR APPLICATION OF INSULATION.

 NSTALL PIPING ADJACENT TO EGUPMENT AND SPECIALTIES TO ALLOW FOR PROPER SERVICE.
- AND HANTENANCE. NO RETALL PRING AT INDICATED SLIPES, FREE OF SAGS AND BRIDS. NETALL ITTIMES FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. NETALL LINENSE AND SHIT-OFF FALVES AT FRANC, CONNECTIONS TO EACH PIECE OF COLEMPIST, MALINE, AND SPECIALTY. SECELET SYSTED COMPONENTS WITH FRESSURE RATING EQUAL TO OR GREATER THAN
- SYSTEM DEPARTMO RESISSAE.

 SELEMIS ARE MOT REQUERED FOR CORE-DALLED MILES.

 SELEMIS ARE MOT REPORTED FOR SHAPE MILES MOT ARE MOTHER FOR SELEMIS.

 CORRECT FLOOR AND ROOF SLAMS.

 FOR CORRECT FLOOR AND ROOF SLAMS.

 FOR THE MOST MILES AND THEOLOGY CORRECT AND MASORY MALLS AND

 SERVER LISE SELEMIS OF PESES PASSING THROUGH CORRECT AND MASORY MALLS CIPSUM
 FRAIL SELEMIS FOR PESES PASSING THROUGH CORRECT AND MASORY MALLS CIPSUM
 FRAIL SELEMIS FOR PESES PASSING THROUGH CORRECT AND MASORY MALLS CIPSUM
 FRAIL SELEMIS FOR PESES PASSING THROUGH CORRECT AND MASORY MALLS CIPSUM-

- BOARD PARTITIONS, AND CONCRETE FLOOR AND ROCE SLABS.
 EXTERIOR-WALL PRE PENETRATIONS: SEAL PENETRATIONS USING SLEEVES AND RECHANICAL SLEEVE SEAN.
- HECHMICAL SLEVY STALS.

 FRE-BARGER PERTATIONS. HANTAN NOTATED FRE RATING OF WALLS, PARTITIONS, CERNOS, MO FLOORS AT PPE PONETRATIONS. STAL PPE PONETRATIONS WITH FRESTOP MATERIALS.

 VEREY FRAIL EQUIPMENT LOCATIONS FOR ROLGENC. IN.

GENERAL PROJECT NOTES

- ALL REQUESTED REVIT HODELS IRVIT SHALL BE PROVIDED AT A CHARGE OF 850. PROBE TO TRANSMISSION OF FILES, THE RECLIESTING PARTY MUST SEN AND RETURN "DOCUMENT DISCLAMERY TO ALS.
- AN PER ALL ITTES. ACCOUNT IN MAYAUTERS RECONSTRUCTORS
 SPECIFIC ANNI DE CONTROLLE MAYAUTERS RECONSTRUCTORS
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- 5 insulation general installation requirements.
 Install insulation materials, accessories, and finishes with smooth, straight, and even ICES, FREE OF VOIDS THROUGHOUT THE LENGTH OF PIPING INCLUDING FITTINGS, VALVES, AND
- NOTALL SHELD OF VIOLD THROUGHOUT THE LINUTE IN STATEMENT OF SHEARING AND THROUGHOUT THE LINUTE IN SHEARING ON RETARGERS, LACRETS, AND THROUGHOUT MAILTINES, FORMS, VAPOR BARRIES OR RETARGERS, LACRETS, AND THROUGHSSES RICURED OR EACH THE OF PIPE SYSTEM AS SPECIATION IN NOLLATION SYSTEM THROUGHSSES RICURED FOR EACH THE OF PIPE SYSTEM AS SPECIATION IN NOLLATION SYSTEM.
- SOMERUES.

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 SOMERUES.

 SOMERUES SOMERUES OF THE LONGITUDINAL SEAMS AND DID JOIN'S BOND SEAMS AND JOIN'S WITH ADMISSIVE RECOMPLECTED IN THE ADMISSIVE PRESENCE.

 RESTALL BY THE ADMISSIVE PROPERTY OF THE ADMISSION FRACTION.

 NESTALL BY CEROM PROTECTIONS ON ALL INSULATIO FITTINGS IN ALL DIPOSED PUBLIC AREAS NULLUDAN RECOMMENT, JAMIOTES AND SEGREE BOOMS.
- 6 Inspections & Testing . Do not enclose, cover, or put pring into operation until it has been inspected and
- DO NOT DICKLOSE, COVICE, OR RIF FRENCIN CO-PETATION WITH UT HAVE DEED RESPECTATION OF A DESCRIPTION OF A DEFECTATION OF A DESCRIPTION OF A DES

- 13 CILAMO

 A. CILAM NO DISNECT FOTARLE CONISTIC WATER FPING AS FOLLOWS.

 I PARKE NAV PERIOR AND DARTS OF DESTING PIPING THAT HAVE BEEN ALTIFIED, DISTINCED, OR FIRMADED SOFTICE USES.

 ASSOCIATION FOR FOLLOWING PROCEDURES POSSIGNED OF WAIT-FORTER'S HAVING.

 ASSOCIATION FOR FENDOS AND TO PROSERVED, OR FOLLOWING SESSIONED IN DIFFE.

 APPLA FIRST OR ANNA COST OR FOLLOW PROCEDURES SESSIONED BELOW.
- AWWA C651 OR AWWA C652 OR FOLLOW PROCEDURES DESCRIBED BELOW: 2. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER LINTIL DIRTY WATER DOES NOT FILLEN PIPMS SYSTEM MITH LEAN, POTABLE MATER LINTIL DRITY WATER DOES NOT APPEAR AT LOULETS.

 FILL AND SOLARE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING.

 FILL SYSTEM OR PART THEREOF WITH MATERIORING SOLUTION WITH AT LEAST 50. PPM 50 MB/LL OF DIGGREG. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 2A.
- HOURS.

 2. FELL SYSTEM OR PART THEREOF WITH MATER/CHLORINE SOLUTION WITH AT LEAST 200

 PEN 1000 MEAUL OF GELORINE. SIGLATE MO ALLOW TO STAND FOR THEIR HOURS.

 C. FLUEN SYSTEM WITH LICEM, POLINEE MATER LATEL, DOUGHORS EN MATER COMMISSION FROM SYSTEM AFTER THE STANDING THE.

 3. SAMIT WATER SAMPLES IN STEEL BOTILLS TO AUTHORITES HAYNO, JURISDICTION.
- REPEAT PROCEDURES IF BOLOGICAL EXAMINATION SHOWS CONTAMINATION.

 B. PREPARE AND SUBMIT REPORTS OF PLEGING AND DISMFECTING ACTIVITIES.

 CLEAN INTERIOR OF ALL PHYNG SYSTEMS. REMOVE DRIT NAD DEBRIS AS MORK PROGRESSES.

231123 GAS PIPING

- DIENTS SHALL COMPLY WITH ANSI Z21 OR ASTM 8 584
- NATURAL/GAS PPING.

 ORPS AND STORMST TRAPS. INSTALL DRIPS AT POINTS WHERE CONDENSATE MAY COLLECT,

 NELLONG SERVICE-METER OUTLETS. LOCATE WHERE ACCESSIBLE TO PEPINT CLEANION AND

 PETYMOS. DO NO TRAILL WHERE COMBONEARE IS SUBJECT TO FREEZING.

 DITION GREEP WITH CONNECTIONS FOR SERVICE ROULATORS, LINE ROQUATIONS, AND

 OUTPRETSSEARE PROTECTIONS FOR STRONG TO LOUTLOOKS AND TERMINATE WITH WHATHERPROOF VIDIT
- LOWCONNECT BRANCH PIPING FROM TOP OR SDIE OF HORIZONTAL PIPING.

 NITALL LINDREN IP PES IMPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION
 TO EACH PIECE OF EQUIPMENT.

 CONNECT TO UTILITY'S DAS HAIN ACCORDING TO UTILITY'S PROJECURES AND REQUIREMENTS.

FIRE SPRINKLER SYSTEMS

- EXTEND EXISTING FIRE PROTECTION SYSTEM INTO ALL NEW AND RENOVATED AREAS, NEW PORTION OF FIRE PROTECTION SYSTEM SHALL BE INSTALLED INCLUDING ALL LABOR, MATERIALS, EQUIPMENT AND OTHER INCRESSION DEPORTMENT.
- OHER MICESSAFT PERSONANCES.

 (COLUTI EDINALE PERSONALE PLACE AS MEDIDI CONTACTOR IS RESPONSIBLE FOR PROVIDING ALL
 FUNCTION OF THE STREET, THE STREET PLACE AS MEDIDI CONTACTOR IS RESPONSIBLE FOR PROVIDING ALL
 FUNCTION OF THE STREET, THE STREET PLACE P
- ELECTRICANS COST IN THIS BID.
 ALL PIPMS SHALL BE TESTED IN ACCORDANCE WITH ASTH A.-155 OR A.-175.
 SPRINGLER HALDS TO BE AS FOLLOWED (LODGDINATE WITH ARCHITECT PRIOR TO GROENING).
- - OFFICE / GINERAL SPACES WITH CHILMS

 85°F, WHITE SHI-RICESSED PENDANT TYPE HEADS.
 OFFICE / GENERAL SPACES WITHOUT CHILMSS

 MS°F, BRASS UPRICHT TYPE HEADS
- BOTT, BRASS SHAMIT THE LAND.

 KENNELL BUSS SHAPET THE MADE.

 ALL SPRINGER HE RELIGION TO HE CONTROL IN THE CELLING PAID WHERE POSSIBLE, ALL SPRINGERS

 ALL SPRINGER HE RELIGIATE TO BE CONTROL IN THE CELLING PAID WHERE POSSIBLE, ALL SPRINGERS HE WAS NOT REAL WAS NOT
- SHALL HAVE THE PIPPIN INSTALLED AS HOR AS POSSIBLE UP IN THE STRUCTURE.
 ALL DRANS TO TERMINATE ON THE EXTERIOR OF THE BUILDING, COORDINATE EXACT LOCATION WITH
 HAVE A PROMOTED.
- UNICH / ONDIRECT.
 INSPECTIONS TEST CONNECTIONS MUST TERMINATE ON THE EXTERIOR OF THE BUILDING AND BE INSTALLED AT 7-0-7 ABOVE FINSHED GRADE. A SHAT-OFF VALVE MUST BE INSTALLED INSIDE AT A EASILY ACCESSIBLE LOCATION AT NO MORE HAND SHOW FINSHED FLOOR. COGROMATE ALXBLY CAUTED.
- ALL SIZE OFFT, THE MILL OF SOUTH A SOUTH AND THE RESIDENT CONCERN AT MISST.

 ALL SIZE OFFT, THE MILL OF SOUTH RANGE OF SOUTH RANGE OF SOUTH A SOUTH A
- HOUPS WITH EXPOSED STRUCTURE. O ADDITIFULDAT DOAWINGS FOR BUILDING SECTIONS AND FLEVATIONS, SOCIETY AT LICENSES
- NCLUDING ABOVE CELLINGS AS REQUIRED.

 N. PROVIDE DRY HEADS IN CANDPYIST AND AREAS SUBJECT TO FREEZING.

ANGLE IRON STRUCTURAL JOIST lackMETAL SADDLE TO PROTECT INSULATION CEILING HUNG CLEVIS

2 PIPE SUPPORT DETAIL
PD.0 NTS

-3/4" DIA. THREADED ROD WELDLESS EYE NUT

ATTACH TO STRUCTURE

34

0000 UNSTRUT PIPE NUTS AND WASHERS BOTH SIDES OF ANGLE (TYP).

- NUTS AND WASHERS
BOTH SIDES OF ANGLE

- ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED AND ALL BAR
- ANY SPECIAL TOOL NEEDED FOR ASSEMBLY, MAINTENANCE OR ADJUSTMENT OF ANY EQUIPMENT SHALL BE SUPPLIED TO THE OWNER AT NO ADDITIONAL COST. PRICE APPROVAL OF MECHANICAL, ELECTRICAL AND PLUMBING ALL PIPE AND EQUIPMENT INSTALLED AND NOT INSTALLED SHALL BE PROTECTED DERING CONSTRUCTION AND CLEANED BEFORE USE, PIPMS SHALL BE COVERED AND HAYE THE ENDS TAPED SHUT WHILE BEING STORED.
- ALL ROUND PIPE SHOWN HUST BE HARD PIPE, PIPING RUNNING IN THE WEBBING OF THE JOISTS MUST ALSO BE HARD PIPE.
- ALL EQUIPMENT ON THE FLOOR SHALL SIT ON A HOUSE KEEPING PAD OR FLAT BLACK ANGLE IRON SUPPORT FRAME. ALL PIPING SHALL BE OUT TO LENGTH AND REAMED TO FULL

ALL EQUIPMENT SHALL BE PROPERLY ALIGNED, LUBRICATED AND OLED BEFORE START UP AND FINAL ACCEPTANCE BY OWNER OLATICAS FILL PORTS SHALL BE VERTICAL AND EXTENSION HITTINGS SHALL BE PROVIDED AS REQUIRED FOR ACCESS FROM

- ALL EXPOSED PIPING PENETRATING WALLS, CEILINGS AND FLOORS
- CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BEDING TO SEE SPECIFIC JOB SITE CONDITIONS FOR THIS PROJECT.
- ALL DUCT, CONDUIT, AND PPING CONNECTING TO EQUIPMENT SHALL HAVE FLEXIBLE CONNECTIONS INSTALLED AT CONNECTION COLUMN (IN FRANCE OF COLUMN (IN FRANCE) (
- PRINCIPLE THE IS SENT THE STATE OF THE STATE OF THE PRINCIPLE OF THE STATE OF THE PRINCIPLE OF THE PRINCIPL
- CC. NO PIPING SHALL BE INSTALLED ABOVE ANY ELECTRICAL PANEL
- THE BITTER INSTALLATION SHALL BE IN ALCOGNANCE WITH ALL APPLICABLE LOCAL, CITY, STATE AND NATIONAL CORES, LANS, ART'S AND ORGANICES AND ALL AUTHORISES NATIONAL CONTROL OF THE ALL AND ALL AND
- F HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK MMEDIATELY AND INFORM THE OWNER'S REPRESENTATIVE IN
- WRITING. THE DWNER'S REPRESENTATIVE WILL THEN BE RESPONSIBLE TO TAKE THE APPROPRIATE ACTIONS. DRAWNOS ARE LARGELY SOFMATIC IN MATURE. THOUGH A LOT OF CETALS MAY BE SHOWN THEY ARE NOT INTIMOD TO SHOW PURFOR OTTAL. IT IS THE CONFACTIONS RESPONSALITY TO COMPANIE WITH ALL DIRER TRADECS AND DESTINASTIC CONTINUES TO PROVIDE A PAULY PROTECTION. SYSTEM PER NITHEL TO CESSAL ALL REQUIRED PRING, SEPPORTS AND DUTTS SWALL BE PROVIDED FOR A BULLY HAND THAN SYSTEM PER DESIGN NITHS! IT ROUTING AND SHOWN OF THE PER ASK.
- WHEN ALL WORK IS COMPLETED NO MATERIALS SHALL BE LEFT ON SITE UNLESS SPECEFIALLY ROLLESTED BY THE OWNER, ALL MATERIALS TO BE DISPOSED OF PROPERLY.
- IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE WITH THE ELECTRICAL CONTRACTOR ON ALL ELECTRICAL REQUIREMENTS FOR THE FOLIPMENT FROM TO GOODRING, ALL REQUIREMENT FINANCES SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR / SUPPLER
- F ANY CONFLICTING INFORMATION IS PROVIDED ON THE DRAWNISS, THE HORE STRINGENT/EXPENSIVE SHOULD BE BID UNLESS A ADDENDUM CAN BE ISSUED IN TIME TO CORRECT THE SITUATION.

WRAP JOINTS WITH 3" TAPE AND SEE VAPOR BARRIER ACROSS INSULATION (ONLY NEEDED 2" FROM WALL AT FIRE WALLS)

THREADED ROD TO B

INSULATION SHALL BE WRAPPED MITH A ONE-PIECE PYC JACKET SEALED WITH PYC TAPE IN EXPOSED APPLICATIONS

U. IT IS THE RESPONSIBILITY OF THE HAMLFACTURER / SUPPLIER TO MAKE SIZE ALL LIMITS HIT IN THE REQUIRED SPACE INTENDED MITH RECOMPLECE MAIN DECIDED WHAT THE RESPONSIBILITY OF THE MANUFACTURER AT NO ADDITIONAL COST TO THE PROJECT.

PLUMBING SYMBOLS

PIPING BREAK HARK

XX

CROSS SECTION INDICATOR

D = DETAIL DRAWNS P = PARTIAL DRAWNS R = RISER DIAGRAM S = (ROSS SECTION DRAWNS

- NEW TO EXISTING CONNECTION

FIRE SERVICE PIPING

DOMESTIC COLD WATER PIPING

---- BELOW GRADE SANTARY WASTE PIPING

- REFRIGERANT PRING PAR

WASTE PIPING CONNECTION

WASTE PIPING ELBOW 90"

BUTTERFLY VALVE

CALIBRATED BALANCE VALVE

x-x

STRAINER VALVE IN VERTICAL PIPING

WALL HYDRANT
BELOW AND ABOVE GRADE CLEAN OUT
FLOOR DRAIN AND COVER
SNK P-TRAP

BELOW AND ABOVE GRADE P-TRAP

OVERFLOW BAIN WATER PIPING

- GREASE TRAP PIPING - HUMDITY DRAIN PIPING

RAN WATER PIPM

- GAS PPING

DOMESTIC HOT WATER CIRCULATING PIPM

- ABOVE GRADE SANITARY WASTE PIPING

- PROVIDE APPROVED MANUFACTUREN'S ACCESS DOOR IN ALL HASD CELENDS ADJACENT TO ANY EQUIPMENT/CONTROLS THAT IS NOT ACCESSIBLE FROM BELLOW BY ITSELF. COCROMATE FINSH COLOR WITH ARCHITECT FROM TO GREEFING.
- ALL COUPHENT WITH ELECTRICAL HARD WRED CONNECTIONS MUST BE ULL ISTED ASSEMBLES OR THE PROPER RELD TESTING FOR PELLO RATIOS TO A ULLISTED ASSEMBLY HAST BE INCLUDED WITH DOLUMENTATION PROVIDED TO THE AUTHORITY HAVED JURISDICTION, DANIER AND DESIGN TEAM UPON
- DODUME A DOSVENTATIVE / COSMITTIVE MAINTENANCE SCHEMIN
- FIGUR ARTIFOLAL OF RECOVERAL, ILLETIFICAL AND FULHMAN SESSITION OF NOGRACIA. PLETIFICAL AND FULHMAN SESSITION AND FULHMAN SESSITION AND FULHMAN SESSITION APPOALS. PROPERTY OF MATERIAL PLETIFICAL AND FULLMAN SESSITION AND FULL AS SESSITION AND
- ON THE OTHER TRACES.

 1. PROPOSED SUBSTITUTION WILL NOT AFFECT DIMENSIONS AND FUNCTIONAL CLEARANCES.

 2. PRODUCT DATA AND SHOP DRAWING FOR PROPOSED SUBSTITUTIONS MUST BE PROJECT SPECIFIC AND NICLUONS ALL COMPONENTS IDENTIFIED FOR LOMPARISON TO THE ORIGINAL PROPOSED.
- RODUCT.

 THE BURDEN OF PROOF OF THE EDUIVALENCE ON THE ROPOSED SUBSTITUTION IS ON THE PROPOSER.
- Z. A 10"-0" NNMM CLEARANCE MUST BE KEPT BETWEEN ALL MCCHAMEAL FRESH ARE NITAKES AND ALL PLUBBING VINTS, EXHAUST VENTS AND EXHAUST FAINS. A 7"-0" NIMPLM CLEARANCE MUST BE KEPT BETWEEN ALL EVINDEMENTAL AR EXHAUST DESTROOMS, ETCL AND ALL OPERABLE OPENINGS INTO BUILDING.
- AA. EXACT ROUTING OF ALL PIPING THROUGH THE ROOF/CELING SHALL BE COORDINATED WITH STRUCTURE.
- 88. EXACT LOCATION OF ALL PPING AND SUPPORTS SHALL BE COOFDINATED WITH STRUCTURE, LICHTS, CELLING GRID, HYAC, PLURISMS FORTURES AND FRE SPRINKER PPING. SEE ELECTRICAL LICHTICAL CELLING CELLING LICHT CHAIR PROJECT CELLING PLUNS FOR COORDINATION OF LIGHTING FORTURES AND CELLING GRID.
- DD. SHUT-OFF VALVES SHALL BE PROVIDED IN HOT AND/OR COLD MATER PIPMS AT CONNECTION TO EQUIPMENT/PLUMBING FORTURE AT AN ACCESSIBLE LOCATION.
- EE. ESCUTCHEONS SHALL BE PROVIDED ON ALL PPING PENETRATING A FINSHED WALL INTO A PUBLIC SPACE.
- FF. ALL PLUMBING FIXTURES AND ACCESSORIES SHALL BE APPROVED BY CHANGE GG. FIELD VERIFY EXACT LOCATION OF EXISTING PIPING BEFORE
- H. PRIOR TO ROUGH-IN SEE FOOD SERVICE DRAWINGS AND APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT REQUIREMENTS.
- VERIFY EXACT LOCATION OF KITCHEN EQUIPMENT WITH EQUIPMENT SUPPLIER AND ARCHITECTURAL PLANS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRANSITIONS, ELBOWS, DEFSETS IN PIPING TO MAKE SYSTEMS FIT WITHIN SPACE AND STRUCTURE PROVIDED.
- KK. NO PPING EXCLUDING REFRIGERANT, PLUMBING VENT AND GAS PIPING SHALL BE INSTALLED IN AN UNCONDITIONED SPACE.
- LL. ALL PIPE PENETRATIONS THROUGH WALLS/FLOOR/STRUCTURE SHALL BE COMPLETELY SEALED, FIRE CAULK SHALL BE USED FIRE RATED WALLS AND BEAUTY RINGS (LARGE ENDUGH TO
- HM. COORDINATE EXACT LOCATION OF ALL WALL/ ROOF PENETRATIONS WITH THE ARCHTECT, INSINEER, AND EXISTING STRUCTURAL CONDITIONS PROFIT O INSTALLATION. MAINTAIN ALL EXISTING ROOF WARRANTIES.

FRE RATED INSULATION OF THE SAME THICKNESS AS THE SPECIFED INSULATION OR SPECIFED INSULATION IF NOT A FRE RATED WALL

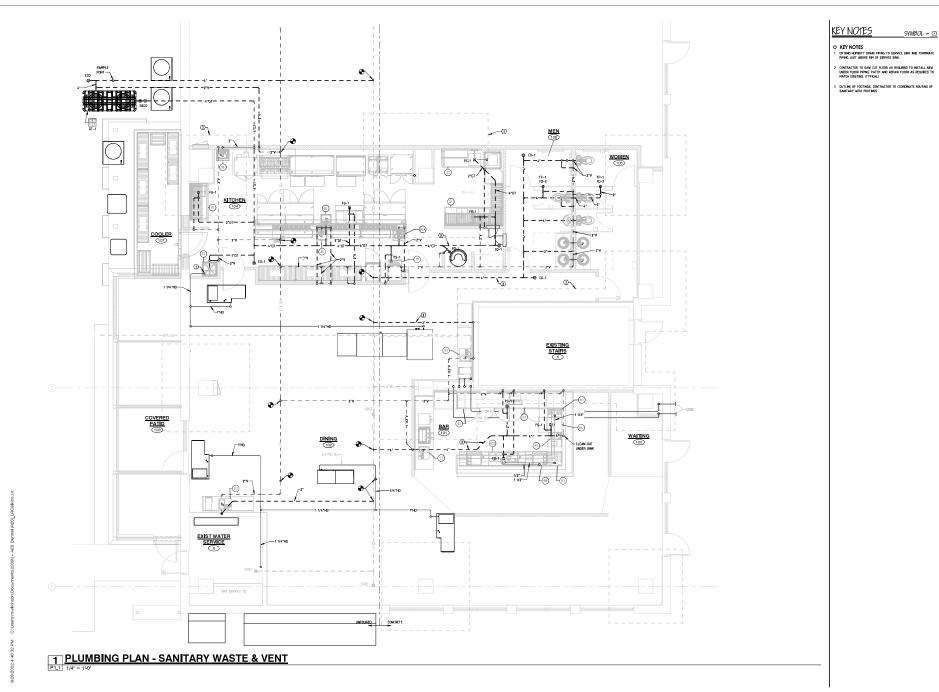
DETAIL NOTES

- NSULATION SHOULD BE INSTALLED IN A NICE,
- TESTED. VAPOR BARRIER IS REQUIRED ON ALL
- PIPE SUPPORT BLOCKING TO BE PROVIDED ON ALL PIPING OVER 2°, CAN BE WOOD, STEEL, OR PRE-HANDEACTURED PRODUCT DESIGNED TO HOLD THE WEIGHT, MUST BE FULL WIDTH OF SADDLE
 - VAPOR BARRER IS REQUIRED ON ALL NEXLATION SOULD BE FULL THERMES MITH NO JOINTS THROUGH MALLS. INSULATION SHALL BE CARRED THROUGH MALL SHALL BY MARPINE THROUGH SHALL SHALL BY MARPINE PROJUCIO INSULATION FITTINGS AND MARPER WITH PAY.

 PPMS SELEVES ARE NOT TO BE USED AS SPECIALS. SUPPORTS.
 ALL PIPE SLEEVES IN NEW CONCRETE SHALL BE CAST IN PLACE AND NOT CORE DRILLED. PIPE SLEEVES SHALL EXTEND 2" PAST FLOOR AND BE CUT FLUSH WITH WALLS.
- ALL SUPPORTS SHOULD BE ANNOTED SECURELY TO THE STRUCTURE BUT NOT THE PEPING THE SUPPORT SHOULD ALLOW FREE MOVEMENT CAUSED BY THERMAL EXPANSION FIPMS STRAPS AND CLAMPS THAT HOLD THE PEPING THAT TO THE STRUCTURE WILL NOT BE ALLOWED. THERAL ACCUPTABLE SUPPORTS INCLUDE BUT ARE NOT LIMITED TO CLET'S HANDERS, ADJUSTABLE SWIMLE RING SUPPORT, ROLLER HANDER AND DUBBLE BUT THE CLAMP.

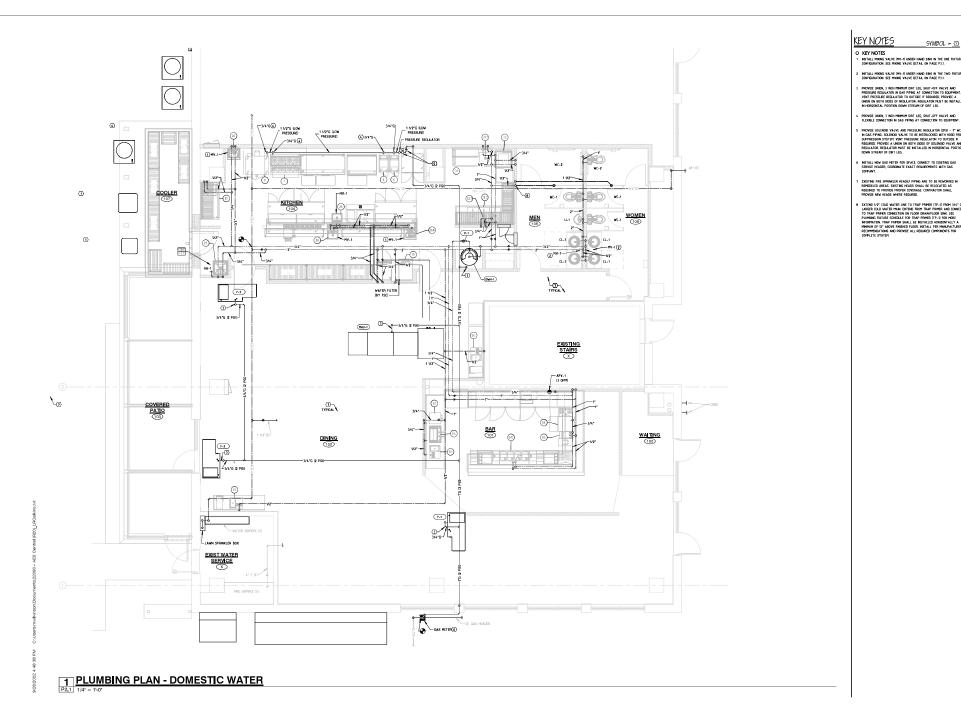
1 PIPE INSULATION DETAIL
P0.0 NTS

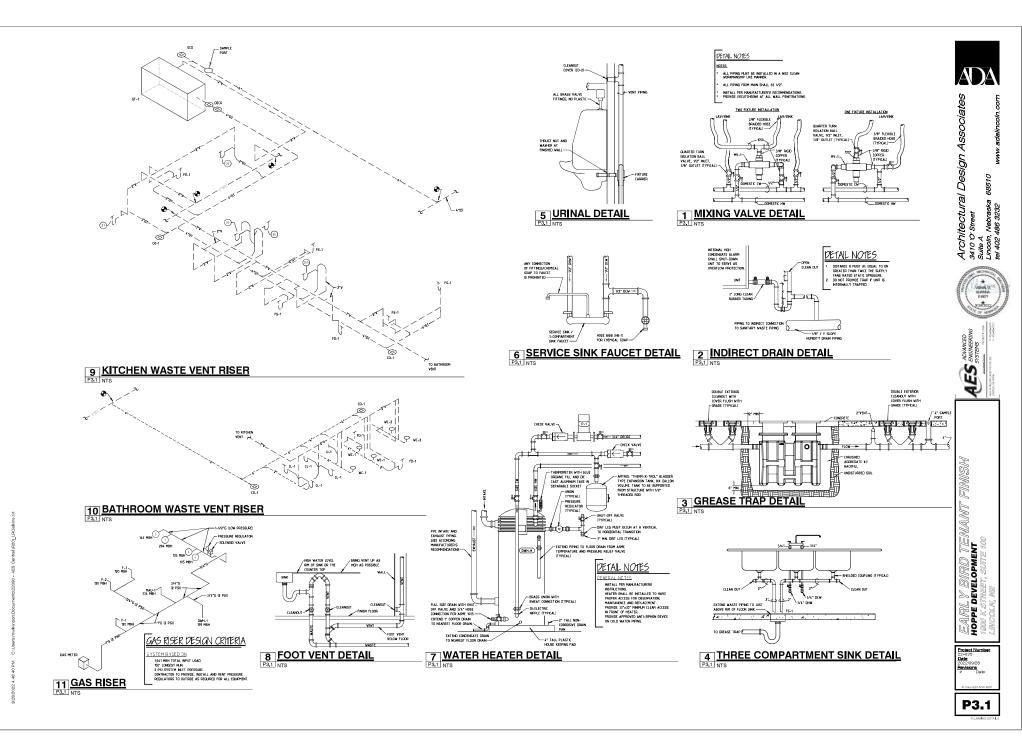
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HARK	DUMNTIT	DISCRIPTION	SZE	326	ă.	¥	DIRECT	NORECT	SZE	ž	326	€	PROVIDED	NSTALLED	REMARKS
1	1	8-BURNER RANGE	-	-		-	-	-	3/4"	294	-		FSC	мс	-
2	1	GROOLE	-	-	-	-	-	-	-	-	-	-	PSC	нс	-
3	1	GROOLE	-	-	-	-	-	-	-	-	-	-	FS(нс	-
4	2	FRYER		-		-			3/4"	105			PSC	H(
6	~	CONVECTION OVEN	-	-		-	-		3/4"	12			FSC	н	-
13	2	EXHAUST HOOD	-	-	-	-	-	-	-	-		5000	FSC	мс	-
19	1	CE MAKER	vz	-		-	-	3/4"	-	-		-	FSC	нс	EXTEND DRAINS FROM ICE MAKER AND ICE BIN TO FLOOR SINK, DOW TO WATER FILTER.
25	1	WORK TABLE W/ PREP SINK		-	-	-	-	3-V2*	-	-	-	-	PSC	нс	-
25A	1	MINI PRE-RINSE FAUCET	1/2"	1/3.		-	-		-	-		-	FSC	MC	-
26	3	HAND SINK	1/2"	1/2"	-	-	1-1/2*	-	-	-	-	-	FSC	нс	PROVIDE WITH MV-1
26A	-	HAND SINK	v2	1/2-		-	1-1/2*		-	-	-		FSC	нс	PROVIDE WITH MV-1
27	1	MOP SINK	1/2"	1/2"		-	-	-	-	-	-		PSC	MC	PROVIDE WITH HB-1, SEE DETAIL
31	=	SOILED DISHTABLE	-	-	-	-	-	5.	-	-	-		PSC	H(-
31.1	-	FRE-RINSE FAUCET ASSEMBLY	vz	1/2-					-	-			FSC	HC	-
32.1	٠	WALL/SPLASH MOUNT FAUCET	vz	N3-		-	-		-	-	-	1	FSC	HC	
32.2	1	THREE (3) COMPARTMENT SNK	-	-		-	-	130 2*	-	-	-	-	FSC	HC	-
33	1	DIŞH MACHINE	vz	3/4"	120*	-	-	2.	-	-	-		0	мс	EXTEND ON TO STEAM REMOVAL SYSTEM.
81	1	BACK BAR CABINET	-	-	٠	-	-	3/4"	-	-	-	-	PSC	MC	-
82	1	BACK BAR CABINET	-	-	٠	-	-	3/4"	-	-	-	-	PSC	MC	-
83	1	DRAMBOARD	-	-	٠	-	-	1-1/2*	-	-	٠	-	PS(HC	-
84	1	GLASSWASHER, UNDERCOUNTER		1/2"	٠			r		-	٠		PSC	HC	-
85	-	HAND SINK	vz	1/2"			1-1/2			-		٠	FSC	HC	
87	-	DRAIN BOARD	-	-			-	1-1/2"	-	-	-	٠	PSC	MC	-
88	1	ICE BN	-	-			-	1/2*	-	-	-	,	PSC	MC	-
B10	1	UNDERBAR SINK UNITS	vr	1/2-	-	-	-	1-1/2*	-	-	-	-	FSC	MC	-
S1	1	COFFEE BREWER	-	-		-	-	-	-	-	-	-	FSC	H(-
52	-	TEA BREWER										٠	FSC	HC	-
SI	-	ICE AND WATER STATION	vz					٢		-		٠	FS(HC	-
S4	-	ESPRESSO	-	-			-		-	-		٠	FSC	HE	-

FOOD SERVICE MECHANICAL CONNECTION SCHEDULE NOTES

COURS AND THE PROPERTY OF THE

PLUMBING SCHEDULES

PIPE SUPPORT SCHEDULE

	1/2"-1	v.	1-1/	2·	2*		2-1/	2.	3"	_	4"		6*		8-		101		12"-		
	MAX.			R00	MAX.	ROD		R00		ROD											
PIPE MATERIAL	SPACING	SIZE	SPACING	SZE	NOTES																
STEEL	8'	3/8*	9'	3/8*	101	3/8*	111"	1/5.	12"	1/5.	12"	5/8*	12"	3/6"	12"	7/8"	12"	7/8"	12"	7/8"	1,2,3
COPPER	6'	3/8*	6'	3/8*	8'	3/8"	10"	N5.	10"	1/2-	107	5/8*	107	3/4"	107	7/8"	107	7/8"	10'	7/8"	1,2,3
PVC/CPVC	4"	3/8*	4"	3/8*	4"	3/8"	4"	3/8"	4"	3/8"	4"	1/2	4"	1/2*	4"	5/8"	4"	3/4"	4"	7/8	1,2,3
POLYETHYLENE	3"	3/8.	3"	3/8.	3"	3/8"	NA.	3/8*	45	3/8"	6'	1/2	6'	1/2"	6'	5/8"	6.	3/4"	6.	7/8	1,2,3

PIPE SUPPORT SCHEDULE NOTES

- FE SHEPPON SHEPLE NUTED

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PIPE MATERIAL AND INSULATION

	l			PPNG				1	PIPING INSU	ILATION		"K V	ALUE"	1
ppp	PIPE SIZE	RELATION TO GRADE	MATERIAL	RITING TYPE	MIN. SLIDEF	VALVES	COMPLY	INSULATION TYPE	NSJLATION MATERIAL	INSULATION THEODESS	DENSITY LRSAFT*3	MAI	AT TEMP	NO
DOMESTIC COLD WATER	1/2"-1-1/2"	ABOVE	TYPE "L" COPPER	LEAD FREE SOLDER	-	BALL	ASTM B 88	MOLDED SECTION	JACKETED FIBERGLASS	1/2*	3	.22	15	1
DOMESTIC COLD WATER	2"-UP	ABOVE	TYPE "L" COPPER	BRAZED	-	BALL, BUTTERFLY	ASTM B 88	MOLDED SECTION	JACKETED FIBERGLASS	1"	3	.22	15	Γ
DOMESTIC HOT WATER	1/2"-1-1/2"	ABOVE	TYPE "L" COPPER	LEAD FREE SOLDER	-	BALL	ASTM B 88	MOLDED SECTION	JACKETED FIBERGLASS	1"	3	.22	15	
DOMESTIC WATER	1/2"-UP	BELOW	TYPE "K" SOFT (OPPER	NONE	-	NONE	ASTM B 88	-	-	-	-	-	-	Г
DAPOSED KITCHEN WASTE	1-1/2"-UP	ABOVE	TYPE "L" COPPER	LEAD FREE SOLDER	1/8"/12"	-	ASTM A 88	-			•	•	٠	Γ
EXPOSED KITCHEN WATER	1/2"-UP	ABOVE	TYPE "L" COPPER	BRAZED		BALL, BUTTERFLY	ASTM B 88	-	-	-				
ET FIRE SPRINKLER	1,-5.	ABOVE	SCHEDULE 40 BLACK STEEL	THREADED		BALL, BUTTERFLY	ASTM A 135		-					2
ET FIRE SPRINKLER	2-1/2"-UP	ABOVE	SCHEDULE 40 BLACK STEEL	VICTAULIC COUPLING		BALL, BUTTERFLY	ASTM A 135		-					2
GREASE TRAP WASTE	1-1/2"-UP	ABOVE	SCHEOULE 40 PVC	PRIMED AND GLUED	1/4-/12-			-	-		,	-	-	
GREASE TRAP WASTE	2"-UP	BELOW	SCHEDULE 40 PVC	PRIMED AND GLUED	1/4-/12-	-	-	-	-			-	-	
HUMDITY CONDENSATE	ALL	ABOVE	SCHEDULE 40 PVC	PRIMED AND GLUED	1/8"/12"		ASTM 8 88	NON-SPLIT CLOSED CELL	FLEXIBLE ELASTOMERIC	1/2"	3	.25	15	
GAS	1/2"-1-1/2"	ABOVE	SCHEDULE 40 BLACK STEEL	THREADED	-	BALL	ASTM A 53	-	-	-		-	-	Γ
SPLIT SYSTEM REFRIGERANT	ALL	ABOVE	TYPE "L" COPPER	CONTINUOUSLY WELDED	-	-	ASTM B 88	NON-SPLIT CLOSED CELL	FLEXIBLE ELASTOMERIC	1/2*	3	.22	15	
SANITARY WASTE	1-1/2"-3"	ABOVE	SCHEDULE 40 PVC	PRIMED AND GLUED	1/4"/12"	-	-	-	-	-	-	-	-	П
SANITARY WASTE	4°-UP	ABOVE	SCHEDULE 40 PVC	PRIMED AND GLUED	1/4"/12"		-	-	-	-	-	-	-	П
SANITARY WASTE	2"-3"	BELOW	SCHEOULE 40 PVC	PRIMED AND GLUED	1/4"/12"	-	-	-	-	-	-	-	-	Г
SANITARY WASTE	6Tb	BELOW	SCHEOULE 40 PVC	PRIMED AND GLUED	1/4"/12"									Γ
WASTE VENT	1-1/2"-UP	ABOVE	SCHEDULE 40 PVC	PRIMED AND GLUED					-					
WASTE VENT	2"-UP	BELOW	SCHEDULE 40 PVC	PRIMED AND GLUED					-					Т

THE MATERIA AND INSLANTON CENERAL NOTES

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ALVES SCHEDLE

ALIBRATID BALAKET VALVES SHALL BE A BEORDE OR BRASS DALL VALVE
MITH A SET SEERLY SIDE.

BALL VALVES SHALL BE KER BATED FOR POTABLE WATER, BRASS OR BROWLE
BOOT WITH DECOME TEALLIS BROWLE BALL

BOOT WITH DECOME TEAL TO BROWLE BALL

BOOT WITH FLANGED DEC. WATER

BOTT VALVES SHALL BE A BROWLE OF CAST FROM BOOT WITH A RESOL STEM

BOOT SELES BROWLE THE A BROWLE OF CAST FROM BOOT WITH A RESOL STEM

GLOSE VALVE SHALL BE A BROWLE OF CAST FROM BOOT WITH A BROWLE DEC

ALL VALVES SHALL BE A BROWLE OF CAST FROM BOOT WITH A BROWLE DEC

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ALL VALVES SHALL BE A BROWLE OF CAST FROM BOOT WITH A BROWLE DEC

ALL VALVES SHALL BE A BROWLE OF CAST FROM BOOT WITH A BROWLE DEC

PIPE MATERIAL AND INSULATION SCHEDULE NOTES

MUNISMENT PERMET SOLVENT WELDED FITTINGS IS AN ACCEPTABLE ALTERNATIVE ONLY IF ALLOWED BY LOCAL CODES, CPVC PPING MAY NOT BE USED IN ANY PEDIANALA, JECCTORIA, JANTORIA, BOOM OF A REASPROOMS WITHOUT CELINGS, INSTALL PPING ACCROING TO INPA 19.14. MANAFACTURES, ESS SECRECATIONS FOR PRINTER PROFINATION.

PLUMBING FIXTURES

				PI		E TO FORTI		l	
MARK	FIXTURE	MANUFACTURER	MODEL #	CM	HW	WASTE	YENT	ACCESSORIES	FIXTURE DESCRIPTION AND OPTIONS
AFV-1	AUTOFLOW VALVE	GRISWOLD	K VALVE		1/2*	-	-	-	LEAD FREE PRESSURE INDEPENDENT FLOW LIMITING DEVICE, SEE PLANS FOR GPM.
CL-1	LAYATORY	AMERICAN STANDARD	7385.004	1/2*	1/2*	1-1/2*	1-1/2"	DEARBORN OPEN GRID DRAIN WITH TALPIECE AND P-TRAP (BOTH ORIGINE FINISHED), CONCEALED WALL CARRIER TRUEBRO LAY GUARD 2 INSULATION INT.	SINGLE HANDLE FAULET, INSTALL MIXING YALV (IMV-1) UNDER LAVATORY, BOML TO BE INTEGRAL TO COUNTER BY OTHERS.
CO-1	CLEAN OUT	JAY R. SMITH	4020	,	-	4-	-	-	CAST IRON FIXTURE, PROVIDE NICKEL BRONZE ROUND ADJUSTABLE TOP, VERIFY TYPE OF FLOORING FOR TYPE OF TOP REQUIRED, FOR CARPET MARKER USE SUFFIX X
(0-2	CLEAN OUT	JAY R. SMITH	4310	-	-	"	-	-	CHROME WALL COVER
FD-1	FLOOR DRAIN	JAY R. SMITH	2005	•	-	r	1-1/2"	-	PROYIDE FLASHING COLLAR, SEEPAGE OPENING AND NICKEL BRONZE ROUND ADJUSTABLE STRAINER.
FD-2	FLOOR DRAIN	JAY R. SMITH	2005		-	r	1-1/2"	TRAP PRIMER CONNECTION	PROYDE FLASHING COLLAR, SEEPAGE OPENING AND NICKEL BRONZE ROLNO ADJUSTABLE STRAINER, INSTALL TRAP PRIMER TP-1.
FS-1	FLOOR SNK	JAY R. SMITH	3110		-	r	1-1/2"	-	CAST RON B'XB'X6" DEEP, WHITE PORCELAN COATED INTERIOR PLASTIC DOME STRAINER, SEEPAGE OPENINGS, CLAMPING DEVICE AND NICKEL BRONZE GRATE.
GT-1	GREASE INTERCEPTOR	SCHER PRODUCTS	G8-250	-	-	-	3-	-	HOLDED POLYETHYLENE, CAPACITIES LIDUD: GAL, GREASE: 1895 LBS, SOLIDS: 69 GAL, HIGHWAY TRAFFIC LOAD RATED, GAT/WATER TIGHT COMPOSITE COVERS WITH PUMPOUT PO
HB-1	HOSE BIBB	WOODFORD	24P	1/3.	-	-		•	ANTI-SPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD, WITH WALL FLANGE
MV-1	MIXING VALVE	POWERS	LFE480	1/2*	1/2*	-	-	-	LEAD FREE ROUGH BRONZE CONSTRUCTION, HINMUM FLOW 5 GPM AND MAXIMUM FLOW 4 GPM. SET AT 105° DUTLET TEMPERATURE.
TP-1	TRAP PRIMER	JAY R. SMITH	2694	1/5.				•	PRESSURE DROP ACTIVATED TRAP SEAL PRIN
U-1	URNAL	AMERICAN STANDARD	"WASHBROOK" 6590.001	3/1-	-	r	r	SLOAN ROYAL 186-05 FLUSH VALVE. CONCEALED WALL CARRIER.	VITREOUS CHINA, WALL HUNG, TOP SPUD, 1.0 GPM, VERIFY ROUGH-IN HEIGHT TO LIP WITH ARCHITECTURAL ELEVATIONS.
WC-1	WATER CLOSET	AMERICAN STANDARD	"HADERA" 2234.015	г	-	-	2*	CENTOCO SOSTSCC WHITE SOLID PLASTIC OPEN FRONT SEAT, SLOAN ROYAL 111-1,28, 128 GPF FLUSH YALVE	VITREDUS CHINA, BOTTOM OUTLET, FLOOR MOUNT, TOP SPUD FLUSH VALVE, ELONGATEL BOWL, SIPHON JET ACTION, 10° ROUGH IN, 15° HEIGHT.
WC+Z	00 WATER CLOSET	AMERICAN STANDARD	"MADERA" 3043.001	٢		ι-	2*	CENTOCO SOSSISCE WHITE SOLID PLASTIC OPEN FRONT SEAT, SLOAN ROYAL 111-128, 128 GPF FLUSH VALVE	VITREOUS CHINA, BOTTOM OUTLET, FLOOR MOUNT, TOP SPUD FLUSH YALVE, ELONGATEI BOM, SPHON JET ACTION TO ROUGH N, 17 HEIGHT, FLUSH LEVER HALL BE ON OPEN STO WATE CLOSET TO MEET ADA STANDARDS.

PLUMPING FINITIES CHEATLE NOTES

ALL WHITWASTE PIPMS INDEGENOUS THAT HE PLOY LAKERS F NOT SHOWN ON DOWNNESS.
ROLLING PIPMS INDEGENOUS THAT HE PLOY COLLING OFFENDES ON DOWNNESS.
ROLLING PIPMS INDECED AS SHOWN ON SOUTHOUS MESS ON DOWNNESS.
HAVE ALL PLUMPSO FIREIUS APPROVED BY COMER, ROCHIET MOD TINNET RIGHT TO COCKING.
HAVE ALL PLUMPSO FIREIUS APPROVED BY COMER, AND AND THAT HE PARK AND AND THE PIPMS THE SHOWN THE RIGHT LOW AND AND SHOWN HE OF ALL PROVIDE DUST, BUT AND AND THE PARK A

DOMESTIC WATER HEATERS

<u> </u>	NDVIIC V	17 11 12	\ III/	1111	\sim									
									1ST HR	GALLONS/HR				
			STORAGE				MEH	l	RATING	RECOVERY AT 80°				
MARK	MANUFACTURER	MODEL #	GALLLONS	VDLT	PHASE	GAS TYPE	NPUT	EFF. %	GALLONS	TEMP. RISE	TEMP. SET POINT	LOCATION	AREA SERVED	NOTES
DWH-1	A.O. SMITH	BTH-199	100.0	120	1	NATURAL	150.0	96	335.0	235	140 °F	KITCHEN 104	TENANT	1,2,3,4

DOMESTIC WATER HEATER SOFEDILE NOTES

1. RISTAL HEAT TRAFF IN BOTH NAT! AND GUILET PEPRO AT CONNICTION TO WATER HEATER
2. VIENEY PILLETUL OF PATER IN AREA AND PROVIDE MANAGEMENT RECOMPRISED ANCIE ROD.

1. WATER HEATER RICIDATES TO VALT, 18.

4. CONCRESSED ENGINES SHALL BE PEPED TO NAMEST FLOOR DRAIN.

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<u>l un</u>	11 2																
						PUMP I	ATA					MOTOR I	DATA				
					MN. PUMPING	NO FLOW	NOL								COUPLING		
MARK	HANUFACTURER	MODEL .	GPM	FT. HEAD	EFFICIENCY	но	HP	NPSH	FLUID	HP	VOLT	PHASE	RPM	PUMP TYPE	TYPE	SYSTEM SERVED	NOTES
P-1	GRUNDFOS	UP154287	6.0	12				-	H20	0.5	120	1	690	PSC	DIRECT	DHW	1
					l											RECROLLATION	

PUMP SCHEDULE NOTES

1 BROWE OR STANLESS STEEL RITED CONSTRUCTION PUMP SHALL HAVE INLETABLIFE TEST PORTS AND BE BALANCED AND ALEMED.

PROVIDE SPECIFIED OR APPROVED EQUAL

Design

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FE MATERIAL AND INSULATION SCIENCE NOTES

REGILATOR & ADDRESS WHILL HAVE A THAN EVER BAILAND OF A SOLID RESIDENCE AND A SOLID REPORT OF THE STANDARD AND THE SENSITION AND THE STANDARD AND HAVE A SOLID REPORT OF THE STANDARD AND THE SENSITION AND

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—UG— UNDERGROUND ELECTRICAL

—USE— UNDERGROUND SECONDARY ELECTRICAL SERVIC - - - CONDUIT OR RACEWAY TO BE REMOVED

TELEPHONE PEDESTAL

TELEVISION PEDESTAL

ELECTRICAL GENERAL NOTES

- DURING ON-SITE INVESTIGATION AND/OR EXISTING GRAWNISS. T MAY BE NOBE DEVICES TO BE REMOVED THAN SHOWN. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO SUBMITTING A BIO, THE BUILDING NEEDS TO REMAN PUNCTIONAL DURING ALL PHASES OF CONSTRUCTION. COORDINATE ALL
- ALL DASHED ITEMS AND ITEMS NOTED WITH 'R' SHALL BE REMOVED IN THEIR ENTRETY. THIS INCLUDES WIRING DEVICES, CONDUIT/RACEWAY, J-BOXES, AND ALL ASSOCIATED WIRING/CABLING
- EXISTING ITEMS SHOWN IN LIGHT SHADE ARE TO REMAIN AND SHALL BE PROTECTED. ALL DEVICES SHOWN WITH 'RL' ARE TO BE REMO AND RELOCATED. RETEST ALL AFFECTED DEVICES TO MANTAN CIRCUIT INTEGRITY OF ALL EXISTING CIRCUITS AND CONNECTIONS.
- EXISTING ELECTRICAL CONDUIT WHICH IS NOT CONCEALED IN WALLS OR FLOOR SLAB AND WHICH IS NOT BEING REUSED SHALL BE OR FLOOR SLAD AND WHILT IS NOT BEIND REUSED SHALL BE REMOVED. WIRING SHALL BE REMOVED AND ABANDONED CONDUIT SHALL BE CUT OFF FLUSH WHERE IT ENTERS THE FLOOR OR WALL AND SEALED. EXISTING CONDUIT TO REMAIN SHALL BE SUPPORTED
- MHERE LEVILES ARE TO BE REMOVED FROM EXISTING SURFACES OR ABANDORED, THE CONTRACTOR SHALL INSTAIL BLANK STANLESS STEEL MALL PLATES EXTRA CARE SHOULD BE TAKEN NOT TO DAMAGE EXISTING SURFACES OF FINISHES, ALL REPAIR COSTS SHALL BE AT THE REPROSES OF THE CONTRACTOR, REPAIR LIMITED FROM THE REMOVAL OF ELECTRICAL ITEMS AND PATCH/PAINT TO MATTER EXISTING.
- ALL NEW WIRING/CONDUITS SHALL BE CONCEALED IN NEW WALLS. ALL NEW WIRNSCHOOLDTS SHALL BE CONFELED IN NEW MALLS AND ALSO IN EXESTION WALLS MITHER POSSELE L'EVERY FEORT SHALL BE MODE TO CONFEAL WIRNS IN EXISTING WALLS 3V^{et} PLEISBE HETALLIC CROULT HAVE BEST DAN FOLLOW THROUGH POSSELE SHEEFE MONTO TOURING THAT WALLS BOXES SHALL BE CUT IN AND RECESSED WHITE POSSELE SHEEFE MONTO FOLDING INTERNALLATIONS OF THE RECHARGAL AND SECTOMAL POSSELES.
- SPARLE INSTALLATIONS IN PROPED AREAS SMALL BE PERMITTED ONLY P ASSCULIETY METISSANY # II IS NOT PROSECULE OF PROSECULE OF PROCESSES OF PROPERTY OF THE ASSCULIETY METISSANY # II IS NOT PROSECULE OF PROPERTY OF THE STREET, SPARLE RACKEMY, WORDHOLD NO SIRRIES OF COUNTY, INTO COST SECULIEDY AROTHER OF PROPERTY OF THE STREET, SPARLE RACKEMY, WORDHOLD NO SIRRIES OF COUNTY, INTO COST SECULIEDY AROTHER OF THE STREET, SPARLE OF THE STREET, SPARL
- NEW BOXES SHALL BE OUT IN & RECESSED WHERE POSSIBLE.
 ELECTRICAL CONTRACTOR SHALL MAKE EVERY EFFORT TO CONCEAL
- F IT IS NOT PHYSICALLY POSSIBLE OR PRACTICAL TO CONCEAL RACEWAYS, ELECTRICAL CONTRACTOR SHALL BE PREPARED TO PLROBAYMSTALL ONE-PICE STEEL SUFFACE RACEWAY, WIREHOLD TOO SERIES OR EQUAL. COLOR TO BE APPROVED BY OWNER.
- PATCH, REPAIR, PAINT WALLS WHERE DEVICES HAVE BEEN REMOVED. PROVIDE IVORY COVERPLATES OVER UNUSED OR ABANDONED J-
- ALL ABANDONED AND UNUSED CABLING SMALL BE REMOVED UNLESS
 LABILED FOR FUTURE USE AND SUPPORTED BACK TO SOURCES.
 CONTRACTOR TO VISIT SITE PRIOR TO BODDING FOR FIELD
 CONCITIONS.

SITE PLAN GENERAL NOTES

- IN COMPLIANCE WITH STATE AND LOCAL JURISDICTIONS, CONTACT THE UTILITY LOCATING SERVICE/DIGGERS HOTLINE. THIS SHOULD BE THE UTILITY LOCATION SERVICE/COORDIS INTIME. THE SPOULD BE ORDER A MEMORY OF IS INCOME, TRUMOND SATISFACTIVE, SAMAN'S ORDER A MEMORY OF IS INCOME. THE STATE OF INCOME OF INCOME OF INCOME OF INCOME OF IT. A MEMORY OF IT. A MEMO
- UTLITY LOCATIONS ARE SUBJECT TO INTERPRETATION, LOCATIONS ARE APPROXIMATE AND NO GLARANITE IS MADE OF PIPELO SO TO HER ACCURACT, PERTIFIES YERSEFACION MAY DE REIZURED TO DESIREY UTILITIES, CONTACT LOCAL UTLITY COMPANIES FOR PROMERISM FOR CORRENATION OF CORDITAL MONOR CARLES SPALL BE DONE PROPER TO INSTALLATION ALL INSTALLATIONS MASS THE PROFILED FOR THE ACCURACY AND ACCURACY AND
- CONTRACTOR SHALL INCUR ALL COSTS FOR CLEARING EITHER OVERHEAD OR UNDERGROUND ROUTES, INCLUDING TREE REMOVAL, BULDING AND/OR FOLNDATION OR RUBBLE REMOVAL, ANY OTHER OBSTACLES ENCOUNTERED. AND ALL SITE WORK REQUIRED BY LOCAL
- CONTRACTOR SHALL COORDINATE ALL RECURREMENTS WITH LOCAL UPLITY COMPANY REGARDING AID-TO-CONSTRUCTION COSTS. AID TO CONSTRUCTION COSTS SHALL BE INCLUDED AS AN ALLOWANCE AND NOT PART OF THE CONTRACTOR BID.
- F HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK HMEDIATELY AND INFORM THE DWNER'S REPRESENTATIVE IN WRITING
- REFER TO ELECTRICAL/TELECOM RISER DIAGRAMS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE MORK REQUIRED BY LOCAL UTILITIES.

LIGHTING GENERAL NOTES

- CONNECT EACH EXIT/EMERGENCY FIXTURE TO THE LOCAL
- PROVIDE A SEPARATE NEUTRAL WIRE FOR ALL DIMMED LIGHTING CIRCUITS AND DIMMED ZONES SHARING THE SAME CIRCUIT.

POWER/SPECIAL SYSTEMS GENERAL NOTES

- A. PROVIDE A 4"K1"12 VB" DEEP 3-BOX WITH 1"C. STUBBED TO ABOVE CRING TO ACCESSEE AREA FOR ALL TELECOMMENCATION OUTLET LOCATIONS SHOWN PROVIDE A PULLSTRING N. EACH CONDUIT. CABLING AND TERMINATIONS ARE BY OWNER.
- SECURITY SYSTEM, NURSE CALL SYSTEM, ALL RESPECTIVE DEVICES, CABUNG, & EQUIPMENT BY OTHERS.
- ALL RECEPTACLES IN LIVING UNITS & COMMON AREAS SHALL BE HOSPITAL GRADE.
- COORDINATE DEVICES TO BE INSTALLED IN MILLWORK WITH MILLWORK CONTRACTOR. VERIFY LOCATION AND COORDINATE REQUIREMENTS OF ALL COUPMENT WITH PROCESSING COUPMENT, MANUFACTURING ASSEMBLIES, SUPPLIES, ETC. PRIOR TO INSTALLATION.
- EACH BRANCH CREUIT SHALL HAVE A SEPARATE NEUTRAL WIRE. ONE GREEN EQUIPMENT GROUND WIRE SHALL BE INSTALLED IN EACH CONQUIT WITH (3) OR LESS BRANCH CIRCUITS.
- WRING DEVICES IN LIVING UNITS SHALL BE INSTALLED OFFSET I ADJACENT UNIT WALLS AND NOT BACK TO BACK, IN ORDER TO MINMIZE NOISE BETWEEN LIVING SPACES.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL DUCT SMOK DETECTORS AND SHUTDOWN RELAYS FOR EACH SUPPLY DUC DETECTIONS AND SHUTDOWN RELAYS FOR <u>EACH</u> SUPPLY DUCT IF 2000CFM OR GREATER AND ALSO <u>EACH</u> RETURN DUCT IF 5000 CFM OR GREATER, COORDINATE ALL EQUIPMENT REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INDIDNIC
- PROVIDE SMOKE DETECTOR AT EVERY FRE ALARM CONTROL PANEL PAO EXTENDER (WITHIN 5-FT.). CONTRACTOR TO DETERMINE LOCATIONS BASED ON POWER REQUIREMENTS AND VOLTAGE DROP.
- EDE ALADM CONTRACTOR TO INCLUDE COST, AND TIME OF FRE ALARM CONTRACTOR TO INCLUDE COST AND THE OP-PERCORMING ARROD REPOLENCY IRBY TEST FOR THE BUILDING AFTER THE CORE, SHELL WADDINS, AND DODGS ARE COMPLETED DETERMINE FA BRICES IS NEEDED, AS REQUIRED BY THE LOCAL AFL BRICES SHALL BE DESINGED BY AN FIR SYSTEM DESIGNER. AN INSTALLED ACCORDAN TO THE LATEST MAPS AND FER FOUNDERS AND APPROVED BY THE ALM AND REQUENCY LICINSE HOLDER.
- THE CONTROLS CONTRACTOR SHALL BE FLALY RESPONSIBLE FOR COORDINATION WITH THE REPONNEYAL AND ELECTRICAL CONTRACTORS TO PROVIDE AND DESTALL SYSTEMS AS SPECIFIED THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND WITH AND SHOP AND DESTALL CONDUIT AND WITH AND SHAPE OF AN ALL FUNDAMENTAL AND ELECTRICAL DOCUMENTS BUT THAT ARE RELIESED FOR A FLALE FUNCTIONAL SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ON ALL ELECTRICAL REQUIREMENTS MICHANIA, CONTRACTOR ON ALL ELECTRIAL REQUIREMENTS PERTAMENT OF DEFINING ALL DOUBLE AND CONSECTIONS PRODE TO COCCERNO OF ELECTRONIC AND INSTALLATION, CHANGES AND MODIFICATIONS TO THIS ELECTRONIC THAN HAY REQUIRE COGNIT BREAKER AND MIRETCONDUT CHANGES SHALL BE COMPANICATED TO BREAKER AND MIRETCONDUT CHANGES SHALL BE COMPANICATED TO ALL PARTIES WITH THE CONTRACTORS INCLUDIOR THEN THER RESPECTIVE SCOPE OF MORK, THERE SHALL BE NO ADDITIONAL COST TO TET UMES FOR THESE MODIFICATIONS.
- ALL 120Y KITCHEN RECEPTACLES SHALL BE GFI PROTECTED. PROVIDE GFI RECEPTACLES AT OTHER LOCATIONS AS REQUIRED BY
- PROVIDE TAMPER PROOF RECEPTACLES IN LOCATIONS REQUIRED BY

- ALL SHETS REQUESTED IN CAD LOWO FORMAT SHALL BE PROVIDED IN ACAD ONE AT A CHARGE OF SECRETE HINNAME SECON FOR FREE CONTRACTORS AND FOR LEGIFIED RETURN FRANKATURES REPRESENTATIVES. ALL DIFFERS REQUESTED CAD FLES SHALL BE ADMICED SHAVE THE HANNAM SECON FROM THE SHALL BE REPRESENTED FOR THE THE REQUESTING PARTY MAST SIGN AND RETURN TOOLINENT DOSLAMENT TO ALL THE REPRESENTED FAIRTY MAST SIGN AND RETURN TOOLINENT DOSLAMENT TO ALL THE REPRESENTED FAIRTY MAST SIGN AND RETURN TOOLINENT DOSLAMENT TO ALL THE REPRESENTED FAIRTY MAST SIGN AND RETURN TOOLINENT DOSLAMENT TO ALL THE REPRESENTED FAIRTY MAST SIGN AND RETURN TOOLINENT DOSLAMENT TO ALL THE REPRESENTED FAIRTY MAST SIGN AND RETURN TOOLINENT DOSLAMENT TO ALL THE PARTY TO THE PART

- IN A HAMMER SATISFACTORY TO THE OWNER'S REPRESENTATIVE TOUGH-UP OR REFINISH FACTORY-APPLIED PAINTS OR FINISHES WHICH ARE CHEPPED, DEFACED, SCRATCH, OR IN ANY OTHER WAS DISTURBED OUT OF HAMDLING, INSTALLATION, OR GENERAL CONSTRUCTION WORK.

CONTRACTOR CHALL BY DECROWERS FIND CUTTING ANY HOLES IN

- COORDINATE ALL ROOF AND WALL PENETRATIONS WITH EXISTING/NEW STRUCTURAL CONDITIONS, MAINTAIN ALL ROOF WARRANTIES, ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE CAULKED AND SEALED WITH APPROVED FIRE
- INSTALL RACEMAYS AND ELECTRICAL EQUIPMENT, WHICH PENETRATE FRE-RAILED OR SMOKE BASISTER SEPACES, IN A MAINER, WHICH MANTANE THE SERVICE BRATTOR OR BASISTER STREET, CRILL MALL AND FLOOR COPINIOS FOR PENETRATIONS AS NEEDED. THE CONTRACTOR SMALL SE RESPONSIBLE FOR PLANING SLEEVES, CUTTING AND PATIONS, AND PLANING BOOF PENETRATIONS.
- DODGED DEDMENENT TYPED I ARELS DED NET 2012 APTICLE 101 AND
- THE CONTRACTOR SHALL COORDINATE SERVICE INTERRUPTIONS WITH DAIVER, MINIMUM OF 10 DAYS NOTICE IN ADVANCE.
- ALL DUCT, CONDUIT, AND PIPING CONNECTING TO VIBRATING EQUIPMENT SHALL HAVE FLEXIBLE CONNECTIONS INSTALLED AT EQUIPMENT SHALL HAVE FL CONNECTION TO EQUIPMENT.
- ALL EQUIPMENT ON THE FLOOR SHALL SIT ON A 3-1/2" HIGH CONCRETE HOUSE KEEPING PAID, PAD SHALL BE SEALED AND OR PAINTED TO MATCH SURROUNDING FLOOR.

ELEVATOR GENERAL NOTES

- A. INSTALL AND COMPLETE FIRE ALARM SYSTEM FOR ELEVATOR MANAGE AND COPPLETE HER ALARM SYSTEM FOR ELEVATOR RECALL SMOKE DETECTORS SHALL BE INSTALLED IN EACH ELEVATOR LOBBY, ELEVATOR HACHNE ROCH AND HISTMAN IN ACCORDANCE WITH MIPA AND/OR LOCAL CONDITIONS AND CODES, ACTIVATION OF ANY OF THESE SHOKE DETECTORS SHALL INITIATE ELEVATOR RECALL.
- FRE ALARM SYSTEM SHALL HAVE TWO(2) ZONES: ONE ZONE FOR THE DESCRATED LANDING, THE SECOND ZONE FOR ALL OTHER DETECTORS, IN ADDITION, THE SMOKE DETECTORS IN THE ELEVATOR LOBBIES AND MACHINE ROOM CANNOT BE THE INTO SMOKE LOBBES AND MACHER FROM CANNOT BETTILD INTO SMOKE DETECTIONS FOR THE REST OF THE BURNON, THE LETY/AND RUBBIES AND MACHER FROM HIST BE A SEPARATE ZONE FROM THE REST ON THE BURNON, MINOR FROM THE ALMER AND MACHE FROM THE REST OF THE BURN IN COROLIT TO ELEVATOR CONTROLLER. THE SMOKE DETECTION FROM THE DETECTION FROM THE REST AFFER BEING ACTIVATED. THE SEMAN, FROM THE FIRE ALAPH PAREL MIST BE MORPHALLY CLOSED CONTROL WITHOUT ANY THE FIRE ALAPH FAREL MIST BE MORPHALLY CLOSED CONTROL WITHOUT ANY THEOUT WOTT ACKNOW.
- ACTIVATION OF SHOKE DETECTORISI ON A DESIGNATED LEVEL SHALL CAUSE THE ELEVATOR TO RETURN TO AN ALTERNATE LEVEL. DESIGNATED AND ALTERNATE LEVELS TO BE DETERMINED BY THE ELEVATOR INSPECTOR AND FRE MARSHAL.
- VERIFY ALL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH ELEVATOR MANUFACTURER'S SHOP DRAWING PRIOR TO INSTA

PROJECT GENERAL NOTES

- THE ENTRY RESIDENCE OF THE CONSTRUCTION COLUMNS TO THE ENTRY RESIDENCE OF THE CONSTRUCTION COLUMNS TO THE WATER COLUMNS TO THE COLUMNS TO THE COLUMNS TO THE COLUMNS THE COLUM
- POSSESSE AND LARGELY COLUMN TO BE NATIONAL AND GUALLESS DRAMMES AND LARGELY SCHEMINE IN NATURE AND SHALL BE ADMITTED ACTUAL STATE CONDITIONS AND DWINES ROLDENING AND ADDITION ACTUAL STATE STATE CONTINUES AND ADDITIONAL COST. THOUGH A LOT OF DETAILS ANY SECOND HEY ARE AND INFORMED IN SHAPE OF DETAILS IN SECOND HEY ARE ADMITTED IN SHAPE AND LONGING. THE STATE CONTINUES RECORDENING TO REPAY ALL CONTINUES AND EXPENDED HER ADMITTED AND THE ADMITTED HER HER ADMITTED HER ADMITTED HER ADMITTED HER ADMITTED THE ADMITTED HER ADMITTED AND STATE HER ADMITTED HER ADMITTED AND STATE HER ADMITTED AND STATE AND ADMITTED HER ADMITTED AND STATE AND ADMITTED ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED ADMITTED AND ADMITTED ADMITTED ADMITTED AND ADMITTED ADMITTED ADMITTED AND ADMITTED ADMITTED
- ALL EQUIPMENT SMALL BE PROPERLY ALEMED, LUBRICATED AND DIED BERGRE START UP AND FINAL ACCEPTANCE BY DUNGER. DILAGRASE FLL PORTS SHALL BE VERTICAL AND EXTENSION FITTINGS SMALL BE PROVIDED AS REQUIRED FOR ACCESS FROM EXTERIOR OF UNIT.
- ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED AND ALL BARE, SCRATCHED OR MARRED AREAS SHALL BE PAINTED WITH FACTORY PAINT OR AN OWNER APPROVED EQUAL.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP DURING AND AT CONCLUSION OF CONSTRUCTION PERIOD, NO MATERIALS AND AT CONCESSION OF CONSTRUCTION PERSON. NO HAR CHARS
 SHALL BE LEFT ON SITE WHEN WORK IS COMPLETED, UNLESS
 REQUESTED BY DWINES REPRESENTATIVE. ALL MATERIALS SHAL
 RE DISPOSET OF PROPERLY.

Design

E0.0



KEY NOTE SYMBOL - 🗵

- O KEY NOTES
 1 REMOVE DEVICE AND RETURN TO OWNER.

Architectural Design Associates 3410 o' sheet Sune A Sune A Lorin Nebraska 68510 tel 402 486 3232 www.ædelincoln.com





DEVELOPMENT

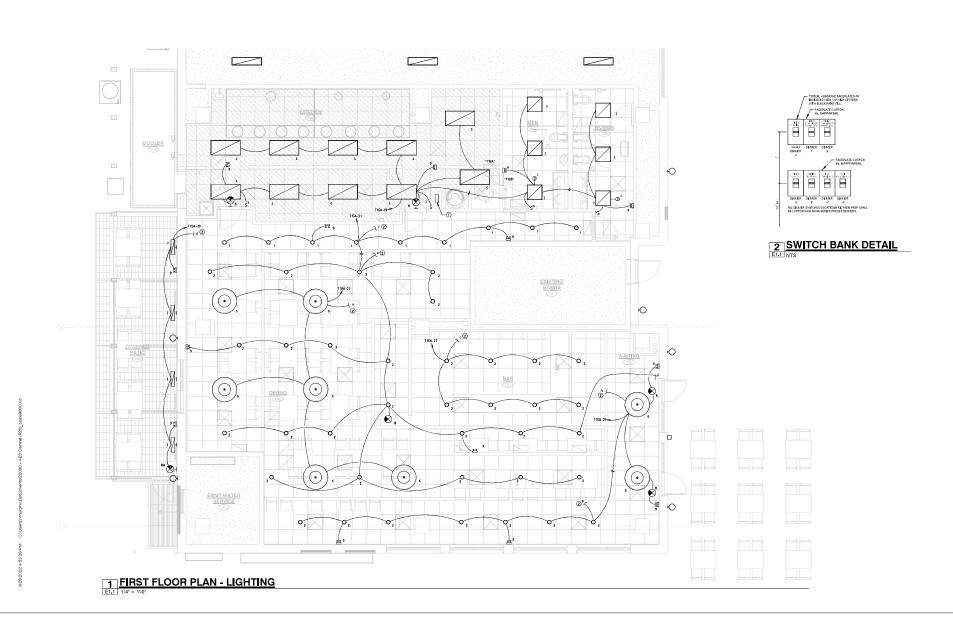


ED1.1

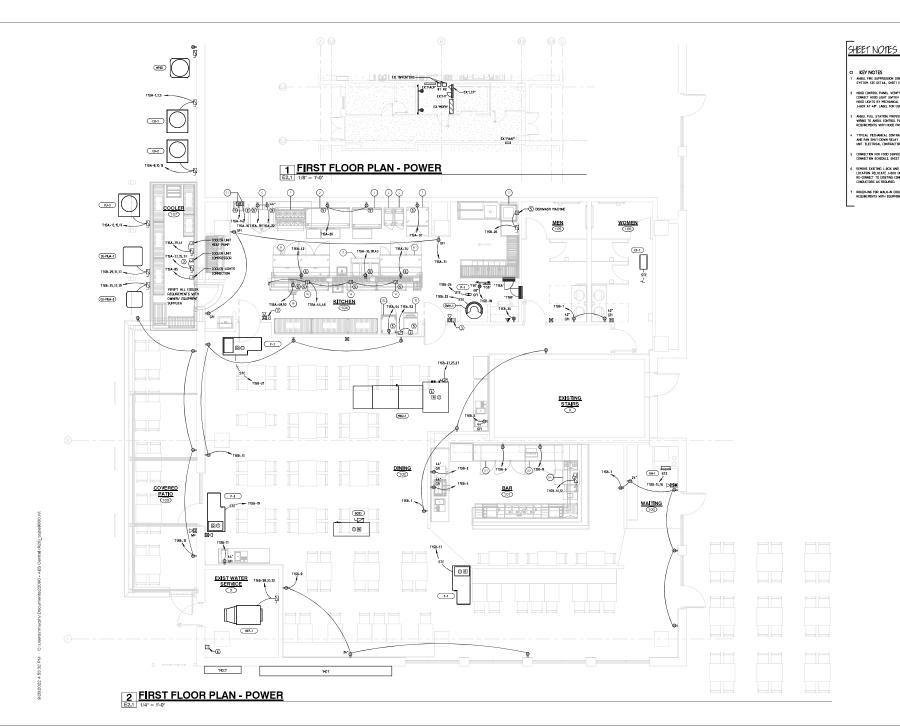


EARLY BIRD TENANT FINISH HOPPE DEVELOPMENT

E1.1



KEY NOTE SYMBOL - (X)



E3.1

	•	Location: KITCHEN 194 Supply From: "MCC1" Mounting: Surface Enclosure: Type 1				PI	Volts: 120/ hases: 3 Wires: 4	208 Wye					A.LC. Reting: Mains Type: MLO Mains Reting: 400 MCB Reting:		
		% RATED COPPER NEUTRAL - 2 SECTION (108 POLES)													
lote	СКТ	Circuit Description	BKR	SPC	,			В		c	SPC	BKR	Circuit Description	СКТ	Not
	T1SA-1	0.4	35	3	2520	2000					3	30	HP - EXISTING	T1SA-2	
П	T15A-3	-					2520	2000						TISA-4	
П	T15A-5	-							2520	2000				TISA-6	
П	T15A-7	BLOWER COIL - EXISTING	90	3	10000	2520					3	35	U-2	T1SA-8	
П	T15A-9						10000	2520						T1SA-10	
	T15A-11	-							10000	2520			-	T1SA-12	
П	T15A-13	00-3	35	3	2520	400					-1	20	KITCHEN - HOOD ANSUL SYSTEM	T15A-14	1
	T15A-15	-					2520	460			-1	20	KITCHEN - HOOD CONTROL PANEL	T15A-16	- 1
	T15A-13			1					2520	950	-1	20	KITCHEN - CONV. CIVEN (BOTTOM)	T1SA-19	- 1
	T15A-19	LIGHTING - KITCHEN 104	20	-	1074						-1		SHUNT TRIP	TISA-20	2
	T15A-21	LIGHTING - DINING NORTH	20	-			1111	950			-1	20	KITCHEN - CONV. DVEN [TOP]	T15A-22	- 1
	T1SA-23	LIGHTING - DINING PENDANTS	20	1					400		-1		SHUNT TRIP	T15A-24	2
	T1SA-25	LIGHTING - WAITING	20	-	353	500					-1	20	KITCHEN - GAS RANGE	T15.A-26	- 1
	T1SA-27	LIGHTING - BAR	20	-			184				-1		SHUNT TRIP	T15A-28	2
	T1SA-29	LIGHTING - PATIO	20	1					244	960	-1	20	KITCHEN - WORKTOP FREEZER	T15A-30	- 1
	T15A-31	RECEP. KITCHEN 104 GENERA	20	-	540	-					-1		SHUNT TRIP	T15A-32	2
3	T1SA-33	WALK-IN COOLER	15	3			1333	960			-1	20	KITCHEN - FIZZA PREP FRIDGE	T15A-34	- 1
	T1SA-35								1333	750	3	20	KITCHEN - FOOD WARMER	T15A-36	- 1
-	T1SA-37				1333	750			_					T1SA-38	-
3	T1SA-39	WALK-IN COOLER HEAT PUMP	20	2			1000	750						T1SA-40	-
	T1SA-41								1000	960	-1	20	KITCHEN - FIZZA PREF FRIDGE	T15A-42	- 1
_	T15A-43	SPARE	20	1	0	2100	1				2	30	KITCHEN - HEAT LAMPS	T1SA-4¢	- 1
_	T15A-45	SPARE	20	1			0	2100	_					T15A-46	-
_	T15A-47	SPARE	20	1			-		- 0	1113	2	20	KITCHEN - CONVEYOR TOASTER	T15A-48	1
_	T15A-49	SPARE	20	-	0	1113	!		_					T1SA-90	-
_	T1SA-51	SFARE	20	1			0	750	.		1	20	KITCHEN - ICE MAKER	T15A-52	1
_	T19A-53	SP ARE	20	щ			<u>. </u>		- 0	180	ļ 1	20	KITCHEN - FROOFER CABINET	T15A-54	- 1
	lassificati	lon		+	onnected	Load	Demand		Estinated		-		Panel Totals		
VAC				+	22680		75.00		170		-				
ghtir ther	9			+	2741	_	100.0		27		-		Total Conn. Load: 84673 otal Est. Demand: 63891		
				+	500	_	100.0		50		-				
0 1/97	_			+	22225	_	72.50		161		١.		tal Conn. Current: 235 Demand Current: 177		
ecept				+	600	-	100.0		161		1101	K EST	. vemano current: 1//		
gntir	g - Ovelli	ng unit		_	600		100.0	1%	60	70	_				

		Location: KITCHEN 104 Supply From: Mounting: Surface Enclosure: Type 1				Pi	/olts: 120/ lases: 3 Vires: 4	208 Wye					AJ.C. Rating: Mains Type: Mains Rating: MCB Rating:			
	PER BUS/100	% RATED COPPER NEUTRAL 5 - 2 SECTION (108 FOLES)														
Note	СКТ	Grouit Description	BKR	SPC				в		c	SPE	BKR	Circuit Descr	iction	ОКТ	Hot
$\overline{}$	T1SB-1	RECEP. MEN/WOMEN RRS	20	1	360	180					- 1	20	BAR - COFFEE BREWE		T15B-2	
	T158-3	RECEP. DINING 102 - CENTRAL	20	1			540	130			1	20	BAR - ESPRESSO MAI	CHNE	T155-4	т
	T158-5	RECEP. TEA GREWER	20	-1					180	500	- 1	20	BAR - BACK BAR FRI	DGE	T15B-6	1
	1158-1	RECEP. WAITING - EAST	20	1	900	500					- 5	20	BAR - BACK BAR FRI	DGE	T15B-8	1
	T159-9	RECEP. DINING 102 - SOUTH	20	1			540	2650			2	45	BAR - DISHWASHER		T158-10	Т
	T158-11	RECEP. TEA BREWER - SW	20	1					180	2650					T158-12	L
	T158-13	RECEP. DINING 102 - WEST	20	1	720	2400					2	30	UH-1		T158-14	
	T158-15	RECEP. COVERED PATIO	20	1			728	2400							T158-16	Г
	T158-11	F-1	15	- 1					500	360	1	20	'TB1' QUADPLEX		T158-19	Г
	T158-19	F-2	15	-1	500	360					1	20	RECEP. KITCHEN 104 N	MNAGER'S	T158-20	Г
	T158-21	F-3	15	1			500	360			1	20	DWH-1		T158-22	Г
	T158-23	MAU-1	30	3					1800	300	1	20	P-1		T1SB-24	Г
	T158-25				1860	1440					1	15	DISHWASHER		T158-26	Г
	T155-27						1800	1748			3	35	KEF-1		T158-29	П
	T158-29	EU-MUA-1	30	3					2083	1740					T158-30	П
	T158-31				2083	1740									1158-32	П
	T158-33						2083	0			1	20	SPARE		T1SB-34	Г
	T158-35	EU-MUA-2	20	3					14-25	0	1	20	SPARE		1158-36	Г
	T15B-37				1425	0					1	20	SPARE		1158-38	Г
	T15B-39						1425	0			1	20	SPARE		TISB-40	П
	T1SB-41	SPARE	20	1					0	0	1	20	SPARE		T1SB-42	П
	T158-43	SPARE	20	1	0	0					1	20	SPARE		T158-44	Г
	T158-45	SPARE	20	1			0	0			1	20	SPARE		T1SB-46	Γ
	T158-47														T1SB-48	L
	T158-49														T158-50	Γ
	T158-S1														1158-52	L
	TISB-SE		L	L											TISB-S4	L
	lassificati	ion .			annected		Demand I			d Demand			Panel "	Totals		
HVAC					25548		75.00			131						
totor				\perp	300		125.01			75	_		Total Conn. Load:			
Other				1	1500		100.01			-00			otal Est. Demand:			
Jawer					5300		100.01			910			tal Conn. Current:			
Recept	tacle			╌	7660		100.01	1%	71	60	Teta	al Est	. Demand Current:	94		
						-T										
				1		$ \top$					1					

		SERVICE EQUIPMEN	11 (101	AI AL	-01	UI.	1 /	JI 114	vu	<u>- </u>							
	L NOTE	E IONS: FSEC = FOOD SERVICE EQUIPMENT CONT				~~.	ONTO				COMPTO	41700				MATERIAL INC.	TOUT THOM	
SEE	APPRO	WED SUBMITTALS FOR EXACT REQUIREMENTS KINS SHALL BE AT THE EXPENSE OF THE EQ	/ACTU/	L LOCA	LIER AT	NO AL	OITION	AL COS	то о	WNER		DALTURE	An)	AUIT.	ren i	MAYING JUNE	CILTIUN	
LOW	/-YOUT	Shall be set in place by FSEC. EC to PF age control wire by others vide all necessary disconnect switches								CONNECT	IONS							
ÄLL	DIRECT	CONNECTIONS TO PSE SHALL BE MADE USIN	G SEAL	-TITE F	LEXIBL	E COND	UIT						_		-			
				æ		DATA				20	WRE		\vdash		100	NNECTION		
E.	QUANTITY	DESCRIPTION	KLOWATTS	HDRSEPOWER	Salay	MCA	400k	VOLTAGE	PHASE	CONDCUTORS	GROUND	RACEWAY	PLUG	NENA	DIRECT	DISCONNECT SWITCH	MOTOR STARTER	NOTES
2.1	1	EQUIPMENT STAND REFRIGERATED BASE			4.2		15	120	1	2-#12	H12	3/4"	Г	5-15P	Г			
3.1	1	EQUIPMENT STAND REFRIGERATED BASE			2.5		15	120	1	2-#12	H12	3/4"	Г	5-15P	Г			
6	1	CONVECTION OVEN (TOP)			1.9		15	120	1	2-#12	H12	3/4"	Г	5-15P	Г			
6	1	CONVECTION OVEN (BOTTOM)			1.9		15	120	1	2-#12	H12	3/4"	Г	5-15P	Г			
1	1	WORKTOP FREEZER			5.7		16	120	1	2-#12	H12	3/4-	Г	5-15P	Г			
8	1	PIZZA PREPARATION REFRIGERATOR			8.6		15	120	1	2-#12	H12	3/4"	Г	5-15P	Г			
8.1	1	PIZZA PREPARATION REFRIGERATOR			7.4		15	120	1	2-#12	H12	3/4"	Г	5-15P				
9	1	HOT FOOD SERVING COUNTER/TABLE	2.3		11		20	208	1	2-#10	H10	3/4-		6-20P				
14	1	HEAT LAMP	14				20	208	1	2-#12	H12	3/4"			x			
18	1	CONVEYOR TOASTER	2.3		10.1		15	208	1	2-#12	H12	3/4"		6-15P				
19	1	ICE MAKER			11.3		20	120	1	2-#12	H12	3/4"			x	NEMA 4X		
33	1	DISHWASHER		3/4		12	15	120	1	2-#12	H12	3/4"			x	NEMA 4X		
35	1	PROOFER CABINET	2				25	120	1	2-#10	H10	3/6"		VERIFY				
81	1	BACK BAR (ABINET REFRIGERATED			4.2		6	120	1	2-#12	H12	3/4"		5-15P				
82	1	BACK BAR CABINET REFRIGERATED			25		15	120	1	2-#12	H12	3/4"		5-15P				
84	1	GLASS WASHER	5.3		33		45	208	1	2-#6	H10	3/4"	Г		x	NEMA 4X		

	<u>LIGHT FIXTURE SCHEDULE</u>												
DESIGNATION	DESCRIPTION	MOUNTING	LAMP QUANTITY	WATTS	LAWP	VOLTACE	MANUFACTURER	<u>MODEL</u>	NOTES				
L.	1 RECESSED DOWNLIGHT WITH 6" APERTURE AND SEMI-SPECIALAR FINISH RECESSED 1 10 W LED 120 LITHOWA LONG 35/10 LOGAR LSS GZ1												
2	RECESSED DOWNLIGHT WITH 6" APERTURE AND SEM-SPECULAR FINSH	RECESSED	÷	23 W	LED	120	LITHONIA	LONG 35/20 LOGAR LSS GZ1					
	2X2 FLAT PANEL LED LIGHT FIXTURE WITH SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE - 2400 LUMENS	RECESSED	1	n w	LED	120		2(PANL 2X2 ALDI SWW) ML 2400LM / 35K					
4	2X4 FLAT PANEL LED LIGHT FOCTURE WITH SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE - 4000 LUMENS	RECESSED	-	36 W	LED	120	LITHONIA	CPANL 2X4 ALO6 SWW1 M2 - 4000LM / 35K	,				
5	2X4 FLAT PANEL LED LIGHT FOCTURE WITH SELECTABLE LUMEN DUTPUT AND COLOR TEMPERATURE - 5000 LUMENS	RECESSED	1	SS W	LED	120	LITHONIA	CPANL 2X4 ALO6 SWW1 M2 - SCCOLM / 35K	1				
6	FABRIC SHADE PENDANT DRUM	PENDANT	1	100 W	LED	120	LUMETTA	PS4214 WHITE P11 D42 L413 LED 3500K S1M2 CF105 LTCS - COLOR SELECTED BY OWNER					
7	INDIRECT WALL MOUNT LED WITH ASYMMETCRIC DISTRIBUTION	WALL @ 10'-0"AFF	1	61 W	LED	120	A-LIGHT	ANGWCZL LSL 2FT MSLZ XXX INT AL1AZ 35K MYOLT (A SOW					
8	SINGLE FACE EDGE LIT EXIT SIGN WITH SELF-CONTAINED EMERGENCY BATTERY	CELING/WALL	1	4 W	LED	120	LITHONIA	LOM S3R 120/277 ELN S0					
BA	SINGLE FACE END MOUNT EDGE LIT EXIT SIGN WITH SELF-CONTAINED EMERGENCY BATTERY	CELING/WALL	1	4 W	LED	120	LITHONIA	URP TRMR 120-217 EUN EM					
9	2-HEADED EMERGENCY LIGHT	CELING/WALL	1	9 W	LED	120	LITHONIA	ELMSL.					
_	P Prince O Lindow Companies												

GENERAL LIGHT FIXTURE SCHEDULE NOTES:

PROVIDE LOT TRITIED USE TO THE CONTROL TO THE CONTROL THE CONTROL

NOTES

1. PROVIDE WITH DOMK 224 SURFACE MOUNTING KIT IN HARD CEILING AREAS.

	OCCUPANCY SENSOR SCHEDULE												
	RPTON												
	DESCR	MANUFACTURER	MODEL	<u>DESCRIPTION</u>	NOTES								
- [WATTSTOPPER	DT 300	LOW YOLTAGE DUAL TECHNOLOGY CELING SENSOR									

CENERAL OCCUPANCY SENSOR SCHEDULE NOTES;

FIGGA APPROVAL IS NOT REQUISION DATES OFFERING SUPPLIES HAVE BO ON ANY PRODUCT AS

FIGGA SENSOR HALL SEPERATIONS OF REQUISITIONS IN THE SUPPLIES REPOSSIBILITY TO

FROM THE PRODUCT IS COULD. HALL ARROHITCH/DIGHES SOLL SWIFT SUPPLIES AND HAVE THE

FIGHAL DECISION DUGGT OF REVIEWS ROUTH AS AN DIGHLA HER BO OFFERING.

SET WHILL THE OFF GULAN FOR IS HANDES, COORDINATE FAMIL THE CILLY SETTINGS WITH OMER.

MOTES.

N.	/IG2				
1.	PROVIDE POWER PACK	CONSISTING OF A	TRANSFORMER	AND RELAY	AS REQUIRED

			-	ו וועו	411	120	~	IL IP.	10			COULK				_
	EQUIPMENT CONNECTION SCHEDULE															
DESIGNATION	<u> DESCRIPTION</u>	<u>KW</u>	HP	<u>MCA</u>	MOCP	VOLTAGE	PHASE	CONDUCTOR	arounding	RACEWAY	PLUG	<u>NEMA</u> CONFIG.	DRECT	<u>DISCONNECT</u> <u>SWITCH</u>	<u>MOTOR</u> STARTER	NOTES
fil-1	CONDENSING UNIT			21	35	208	1	1-46	#10	3/6"			Ι×	NEMA 3R FUSED		
	CONCENSING UNIT			21	15	208	1	3.48	810	3/6"	Н		1 x	NEMA 38 FLISED		-
CU-3	CONDENSING UNIT	-	-	21	35	208	3	3-48	#10	3/4"	Н		×	NEMA 3R FUSED		-
CU-MUA-1	MAKEUP AIR CONDENSER			21	30	208	3	3-#10	#10	3/4"	П		x	NEMA 3R FUSED		-
CU-MUA-2	MAKEUP AIR CONDENSER		$\overline{}$	15	20	208	3	3-1112	812	3/4"			×	NEMA 3R FUSED		$\overline{}$
DMH-1	WATER HEATER			4	50	120	1	2-812	W12	3/4"			x	STE		
EF-1	DOWNST FAN		FRAC	4	20	120	1	2-812	H12	3/4"			×	STE		
F-1	FURNACE			14	15	120	1	2-1112	#12	3/4"			×	STE		
F-2	FURNACE			14	15	120	1	2-812	#12	3/4"			×	STE		
F-3	FURNACE	$\overline{}$	$\overline{}$	14	15	120	1	2-812	#12	3/4"			×	STE		$\overline{}$
KEF-1	KITCHEN EXHAUST FAN			18	35	208	3	3-48	#10	3/4"			x	NEMA 1		
HAU-1	MAKEUP AIR CONDENSER			19	30	208	3	3-#10	#10	3/4"			×	NEMA 3R FUSED		
P-1	PUMP		5	4	20	120	1	2-112	#12	3/4"			X	STE		
UH-1	UNIT HEATER	6.8	_	23	30	208	1 1	2-810	W10	3/4"	П		×	STE		-

CENERAL NOTES:

RIFE TO APPROVID SPO DRAMMS SUPHITALS FOR DATA BIOLORHOUS PRORT TO DOLOGHA
ANY SENSITIONS OF SPECIMED GENERAL SHALL HE AT THE DEPOSE OF THE SEPERE
BLECTICAL CONNECTIONS AND INTERCONNECTIONS TO ALL HOMBAULILETERAL LIGHTHOUS SHALL BE DONE BY THE BLEC. CONTEX, UNLESS NOTED ORNOWS.

ALL LOW YOUR ARM CONTEX, WARPS OF BLUE HE OF PRINTING MEMORY SHATTED DEPOSES.

SHALE THAT HE SOURCES FOR DEPOSED ANY RESPIRATOR SOURCE WARRINGS AND GROUN AND SHALL BE MILLIORD ANY AND ACCORDING USES.

LECT COMES SHATT FOR THE ATTENDED AND CONSINCES SHATTED ORDINATES AND COMPANY OF COMPRISO CONTINUED, OR STORT LIKES NOTED ORDINATES.

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ELECTRICAL RISER DIAGRAM NOTES

CREAM NOTE

A CONSECUENT SERVICEMENT FOR ALL SITE WORK REQUIRED BY UTILITIES &

A CONSECUENT SERVICEMENT ROUTES YOU TO SET IS ADOPT TO

B. ALL COLLICIONES SHALL BE OLD MICES WOTH CONSECUENT SERVICE

CONCULTI BLANK BUDGAMPHATE & SHOWN THE BUDGAM REPOSES DAY,

ATTOM, LOCATIONES SHALL BE OLD MICES WITH TO FER BUDGAMPHATE SHOWN THE BUDGAMPHATE SHOWN

ATTOM, LOCATIONS SHALL BE RETERIED TO BE FEEL.

ACTION AND THE SERVICEMENT SHALL BE REPORTED TO ALL THE CONCULT

CONCULTATE ALL RECORPORATION SHALL BE RESIDED AND THE CONCULT

TO STRUMENT STATESTED SHALL BE REPORTED THE CONCULTATION OF THE PROPERTY OF THE P

KEY NOTE SYMBOL - @

CONTACTS

KEY NOTES

ELEC. SVC. 2 OF 5

1200/3 لېخ

ELECTRICAL UTILITY: LES NAME: MARK FUSCO PHONE NUMBER: (402) 467-7634

| Sign |

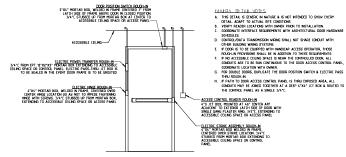
MICRO-SWITCH FOR USE WITH ELECTRIC APPLIANCES SUPPLIED WITH SUPPRESSION SYSTEM DEVICE SHALL BE CAPABLE OF BIND USED WITH ALARM SYSTEM, FAN SHAT DOWN & LECTRIC SOLENDED DAY SAY VET. SITH WINSO OF THIS DEVICE SHALL BE THE RESPONSIBILITY OF THE EC 120V CONTROL INPLO (1) -OPTIONAL PRE-WIRED ELECTRICAL TERMINAL BOX WITH TERMINAL STRIPS, 3-PHASE CONTACTORS AND OVERLOADS IF APPLICABLE) AND LIGHT CONTROL PANEL ANSUL SYSTEM AYOU WIRING DIAGRAM

EMPTY CONDUIT ABOVE CLG BY OTHERS - ICT BOX BY FC WIRING TO BUILDING FIRE ALARM BY EC IF APPLICABLES - POWER SUPPLY WRING TO SUPPLY FAN BY EC ANSUL SYSTEM ELECTRICAL TERMINAL BOX BY OTHERS, COORDINATE LOCATION REMOTE MANUAL PULL STATION BY OTHERS, SUPPLIER TO VERIFY LOCATION WITH AHJ & COORDINATE TYPE OF JCT BOX REQUIRED WITH EC

INSTALLATION DETAIL

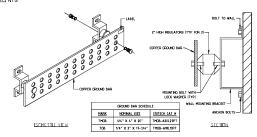
- A. SEE WRING SCHEMATICS/INSTALLATION DETAIL DRAWINGS BY HOOD SUPPLIER
- . This detail is generic in nature & is not intended to show every detail, the intent is to define a general scope of work, adapt to actual site conditions.
- WHEN THE FRE SHEFFESSEN SYSTEM IS ACTIVATED, ALL LELECTRIC COORNG EXAMPLET BROWN HOOD SHALL BE DECOMECTED FROM FOWER STURKE IS FULL ISSUADIO GAS YALVE SHALL CLOSED. THE EDWINST FAMIS) SHALL CONTINUET TO CHEETER IS BE CONTROLLED BY THE FREE SHEFFESSION SYSTEM MAKELP ARE UNIT SHALL SHIT DOWN LEFON ACTIVATION OF FIRE SHAPPESSION SYSTEM MAKELP ARE UNIT SHALL SHIT DOWN LEFON ACTIVATION OF FIRE SHAPPESSION SYSTEM.
- ANY & ALL ELECTRICAL CONNECTIONS, INTER-LOCK CONDUIT/WIFE REDURED TO SHUT DOWN FAMS), ELECTRIC COCKING EQUIPMENT, ACTIVATE AN ALARM SYSTEM, ETC. SHALL BE BY THE EC.
- IF THE RELASE MECHANISM IS NOT ACCESSIBLE FOR MANUAL ACTUATION, A RIMOTI MANUAL PRU. STATION SHALL BE FLONGED BY THE SUPELER AS THE FROMEY MEASO OF MANUAL ACTUATION THE SUPELER SHALL VISITED LOCATION WITH AND & CORDINATE TYPE OF JCT BOX REQUIRED WITH ECHOOLE JCT STATISTICS TO ABOVE CUE IN DIO OFFSETS OR BROWN BY ACCOUNTY OF REPORTE MANUAL PULL BY CERTIFIC DISTRIBUTION.
- INTERCONNECT SWITCH THAT INDICATES ACTUATION TO BUILDING FIRE ALARM SYSTEM

FIRE SUPPRESSION SYSTEM E4.1 NTS



(DOOR HARDWARE SCHEDULE DETERMINES ACTUAL ROUGH-IN REQUIREMENTS

4 ACCESS CONTROL GENERIC ROUGH-IN E4.1 MTS



5 TELECOM GROUNDING BAR

1-86 CU GND IN I'C. TD ELECTRICAL SERVICE GND 10' LOOP & LOOSELY SECURE FOR FINAL TERMINATION BY OWNER'S VENDOR 1'-0" DEDICATED QUAD RECEPTACLE ROUTE 2°C. TO RESPECTIVE SERVICE PEDESTAL

2 COMMUNICATIONS RISER DIAGRAM

EXIST. COMM. TENANT PANELS 'T2S'-'T4S' NEW COMM. COMM. TENANT TENANT PANEL 'TISA' 'TISB' EXISTING SOCKVA 120/208V. 3PH 4W XFMR 'TT □<u></u> K.0073 (3) NEC □<u>O</u>

FEED NEW PANEL 'T1S' FROM NEW 400/3 METER SOCKET. - 2 SETS OF (4-83/0, 1-836, 2°C.)

1 ELECTRICAL RISER DIAGRAM (PARTIAL)

ELEC. SVC. 1 OF 5

225/3

IO/:

NEW METER SECTION FOR 120A SELF CONTAINED CT METER COORDINATE REQUIREMENTS WITH UTILITY.

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Design

chitectural

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Nebraska 486 3232

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3410 Suite

FIELD CHALLTY CONTROL.

INSECT, EACH RESTALLD LIBERAGE OF DAMAGE, REPLACE DAMAGE LIBERAGES AND COPPORNTS.

RESECTION OF THE CONTROL OF THE CO

SUMMARY: ALL WALL MOUNTED COMMUNICATIONS LOCATIONS, AT A MINNIM, SHALL HAVE A BOX IS CONDUCT STUB-UP TO ABOVE ACCESSIBLE CELING. CABLING, CONNECTORS & EQUIPMENT BY DAMER.

LORDATI & DUNCS COTTET DUNCS SPINLL DE IN SPINLLEN THAN A MILTES MUCE, A MILTES MU NOMES CEEP. MINIMAM PATHMAY SZEL I NICH TRADE SIZE. CABLE SUPPORT: NITL LABILED, CABLE SUPPORT BRACKETS SHALL BE DESCINED TO PREVINT DEGRADATION OF CABLE PERFORMANCE & PINCH POINT THAT COULD DAMAGE CABLE.

BACKBOARDS: PLYMOOD, FRE-RETARDANT TREATED, 3/4 BY 48 BY 96 INCHES, INSTALL BACKBOARDS WITH 96-INCH DIMENSION YERTICAL, BUTT ADJACENT SHEETS TIGHTLY, & FORM SHOOTH GAPL-FREE CORNERS &

NOTALIATION
ONEY WITH MEAN I, MEAN BY E TRA-95-B FOR RETALLATION REQUEREMENTS DESIGN WHERE
REQUEREMENTS ON DRAWNESS OR THE ARTHUL ARE STRICTLE.

FOR THE STRICTLE OF THE STRICTLE OF THE COLOUR IS MARKET OF MORE EXTENSION
OF THE STRICTLE OF

AN ENLOSURE. NSTALL PULL WRES IN EMPTY PATHWAYS, USE POLYPROPYLENE OR HONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRINGTH, LEAVE AT LEAST TO INCHES OF SLACK AT EACH END OF PULL

EXCHANGE CARRER.
COCKINATE LOCATION OF POWER RACEWAYS & RECEPTACLES WITH LOCATIONS OF COMMUNICATIONS PRINCIPLE PROMOTE OF TOTAL DOWNS TO DEPOLY.

IDENTIFICATION: IDENTIFY SYSTEM COMPONENTS, WIRING, & CABLING COMPLYING WITH TIA/EIA-606-A LABELS SHALL BE PREPRINTED OR COMPUTER-PRINTED TYPE.

283111 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

SUPMARY: SUPMARY: LOCATIONS & QUANTITIES SHALL BE VERFIED BY FIRE ALARM SYSTEMS CONTRACTOR & SHALL BE FOR ALL APPLICABLE CODES & SUBJECT TO STATE FIRE MARSHAL REVIEW. CONTRACTOR SHALL SUBMIT DRAWNES WITH ADDED DEVICES WHERE MECESSARY) TO AHJ FOR APPROVAL & THEN TO NUMBER FOR FINAL REVIEW.

System description: Noncoded, LL-Certified addressable system, with multiplexed sk Transmission & Ivoiceihorni/Strobe Evacuation

relay family free of bother & Shriap' (donner & light).
Septem that, of dynomen's corposon-resistant aluminum (alless otherwise noicated, form &
Support to prevent warping & Sagging.
Support to prevent warping & Sagging.
Howsings rigidly formed, warping & Budh-Tight enclosures that will not warp. Sag. or deform

BATTERY-SIZE CALCULATIONS

FILLO-PROGRAMMABLE, MIROPROCESSOR-BASED, MODULAR, POWER-LMITED DESIGN WITH ELECTRONIC MODULES, COMPLYNG WITH LU 8GE & LISTED & LABELED 8Y AN NATU. PROVIDE COMPLIAND WITH LU 8GE & LISTED & LABELED 8Y AN NATU. PROVIDE COMPLIANCATION SETWEEN THE FLAZE & REHINDE CROUNT INTERFACE PANELS, AMANDIATORS, &

udellate. The face shall be listed for connection to a central-station signaling system service. Primary power: 24–V DC obtained from 120–V ac service & a power-supply module. Initiating

MANTINANCE SERVICE BEGINNING AT SUBSTANTIAL COMPLETION, MANTINANCE SERVICE SHALL NILLUZE QUINDINGS FILL MANTINANCE OF SCHLILD PROPOSES OF MANEACTRISTS DESIGNATED SERVICE ORGANIZATION. INLILUZE PREVENTIVE MANTINANCE, REPAR OR REPLACIPION OF MORN OR DEFECTIVE COMPONENTS, LUBICATION, CLEANING, A DULISTING AS REQUIRED FOR PROPER OPERATION.

DEMONSTRATION TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, & MAINTAIN FRE-ALASM

RULES & REGULATIONS. THE WORK COVERED UNDER THESE SPECIFICATIONS IS INTENDED TO INCLUDE THE FURNISHING OF ALL EQUIPMENT, MATERIALS & LABOR OR REASONABLY INCIDENTAL TO THE COMPLETE

FUNDAMEN OF ALL DESPREYER, THEREAS E LABOR OF REASONARY NECESTAL OF IN COPIETAL DESIGNATION OF SYSTEMS ALL MOMENTAGES AND IN OF MOMENTAGES AND IN OFFICIAL MAN PROPERTY OF THE MATCHING LICERED COOK, THE MATCHING FOR PROPERTY OF THE MATCHING LICERED COOK, THE MATCHING FOR PROPERTY OF THE MATCHING FOR THE MATCHING SOUTHORN OFFICE AND THE MATCHING FOR THE MATCHING SOUTHORN OFFICE AND THE MATCHING SOUTHORN OFFICE AND THE MATCHING AND THE MATCHI

APPLICATIONS: THE CONTRACTOR SHALL ARRANGE TO COMPLY WITH ALL PERMISSULENSES/FEES/MSPECTIONS REQUIRED FOR MORK LINDER THIS CONTRACT & SHALL BE DETAINED/FOR DETAINED/FOR TOWNS AND THE SHALL BE DETAINED/FOR TOWNS OF THE CONTRACTOR.

OUTAGES: ALL WORK SHALL BE AFRAMED SO THAT POWER IS AVAILABLE TO THE EXISTING BUILDING A ALL THES, EXERP FOR SHORT PERCES RECESSARY TO COMPLETE WORK THE CONTRACTOR SHALL COCCOMANE SERVICE INTERS PROSE WITH CONSERVANDEMMES STAFF SERVICE TO EXISTING AREAS SHALL NOT BE DISCONDECTED UNIT IN MY OR TEMPORARY CONNECTIONS ARE MADIL.

TEMPORARY POWER: THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARLY SUPPLYING FOWER PRIOR TO PERMANENT INSTALLATION OF SERVICE EQUIPMENT, ALL TEMPORARY INSTALLATIONS SHALL BE REMOVED AT THE END OF THE PROJECT.

DOUBLING THESE PLANS EXPRESSENT THE MEST INFORMATION AVAILABLE DURING SITE
WITCHISTORYZESTING DAMANGE. HERY MAY NOT DESCRIPT YEARY FIRE, THE CONTRICTOR IS
WITCHISTORYZESTING DAMANGE. HERY MAY NOT DESCRIPT YEARY FIRE, THE CONTRICTOR IS
SENDLO BE THANKE NOT DOWNANGE DESCRIPT RESISTS, ALM EXPRESS WALL, MAY AT HE DEPOSE OF HE
CONTRACTOR DAMANGE DAMES AND TOWNANGE DAMANGE AND WASHING TO BE RESISTED.
WHITE AND THE CONTRICTOR DAMANGE AND THE CONTRICTOR SHAPE, A SERVICE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFFI NEW ELECTRICAL SYSTEM ELECTRICAL SYSTEMS IN UNAFFECTED AREAS ARE NOT TO BE DISTURBED. OWNER SHALL HAVE FIRST SALVAGE RICHTS ON ALL ITEMS REMOVE ALL MATERIALS, NOT CLAIMED AS SALVAGE, FROM PERMISS, ALL MATERIALS TO BE DISPOSED OF PROPERLY.

CLEANUP: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP DURING & AT CONCLUSION OF CONSTRUCTION PERIOD, NO MATERIALS SHALL BE LEFT ON SITE WHEN WORK IS COMPLETED, ALL SHALL BE DISPOSED OF PROPERLY, OWNER SHALL HAVE SALVAGE RIGHTS ON ALL ITEMS.

WARRANTY: THE CONTRACTOR SHALL WARRANT ALL WORK & MATERIALS UNDER THIS CONTRACT FOR A PERIOD OF ONE-1 YEAR FROM FRAL ACCEPTANCE. THE CONTRACTOR SHALL AGREE TO REPARAREPLACE, PREE OF CHARGE, ANY TIEM HANCH IS DEFECTIVE DUE TO FAULTY WORREWASHEY.

SHOP DRAWNES. THE CONTRACTOR SHALL STAMP, DATE & SION EACH SUBMITTAL TO INDICATE COMPORMANCE WITH CONTRACT DOCUMENTS. THE ARCHITECT/ENGINEER SHALL BE THE FINAL JUDGE OF ITEMS SUBSTITUTED FOR THOSE SPECIFIED.

260500 COMMON WORK RESULTS

COORDINATION: COORDINATE ARRANGEMENT, HOUNTING, & SUPPORT OF ELECTRICAL EQUIPMENT SO CONNECTING RACEWAYS, CARLES, WREWAYS, CARLE TRAYS, & BUSINAYS WILL BE CLEAR OF DOSTRUCTIONS & OF THE WORKING & ACCESS SPACE OF OHITE DIJMENTS.

COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION.
COMPLY WITH INCO. 1.
COMPRESS AND STALL TO FALLITATE SERVICE, MAINTDANCE, & REPAR OR REPLACIPENT OF COMPONENTS
OF BOTH ELECTRICAL EXCEMBIA 3 OTHER REASON STALLATIONS. CONNECT IN SUCH A MAY AS TO
FALCITATE FUTURE DECORMENT ON WITH HARDIN MEDISPENCE OF OTHER TIPES A THE VERSITY.

SELECT SESTILLATION FOR ELECTRICAL PRINTERFORM.

INCREMENTAL SERVICES SERVILLA SERVICES OF PROTECTIONS OF FRE-LANTED FLOOR & MAIL.

ASSENCES MICHIES OFFENDES OFFENDES OFFENDES SERVICES OF MICHIES AND FAMOLICATION OF MAIL.

OFFENDES OFFENDES OFFENDES OFFENDES OFFENDES OFFENDES OFFENDES OFFENDES

LOCAL SERVICES SERVICES AND FAMOLICA SERVICES OF MAILES.

SERVICES MICHIES SERVICES OFFENDES AND FROM THE PROTECTION LIVEL.

SERVICES AND FAMOLICA OFFENDES OFFENDES OFFENDES OF CONSETT AND PASSORY. SAL SPACE OFFICE OF SERVICE WITH ROOM FOR PRETAINING OF COMMETT, AND MOCRET.

FOR STATE OF SERVICE WITH ROOM FOR PRETAINING OF COMMETT, AND MOCRET.

FOR STATE OF SERVICE WITH ROOM FOR SEAL AND MOCRET. TO GET CERTIFIES A LIGHTON OF JOHN FOR SEAL AND SERVICE OF SERVICE WITH ROOM FOR SEAL AND SEAL

INSTALL TO SEAL EXTEROR WALL PENETRATIONS. USE TYPE & NUMBER OF SEALING ELEMENTS RECOMMENDED BY MANUFACTURER FOR RACEWAY OR CABLE MATERIAL I. SEA

260519 LOW VOLTAGE CONDUCTORS AND CABLES

SUMMARY: BUILDING WIRES & CARLES RATED 600 V & LESS

CONDUCTORS IS CABLES:
COPPER CONDUCTORS: COMPLY WITH NEMA NC 10.
CONDUCTOR INSULATION: COMPLY WITH NEMA NC 10 FOR TYPE THIN-THAN

CONDUCTOR MATERIAL ARRESTATIONS CONDUCTION PARTISHED, PAPELETTINGS. PEDDERS: COPPER, SOLD FOR NO. 10 AMG & SHALLER, STRANDED FOR NO. 8 AMG & LARGER. BRANCH CIRCUITS: COPPER, SOLID FOR NO. 10 AMG & SHALLER, STRANDED FOR NO. 8 AMG & LARGE STRANDED FOR NO. 10 AMG & SHALLER & ACCEPTABLE.

CONDUCTOR INSULATION & MULTICONDUCTOR CABLE APPLICATIONS & WIRING HETHODS: TYPE THIN-THINN SINCE CONDUCTORS IN RACEWAY, NO. 12 AWG, UNLESS OTHERWISE NOICATED.

INSTALLATION OF CONDUCTORS & CABLES: CONCEAL CABLES IN FINSHED WALLS, CELING, & FLOORS, PROPRIED THAT HE WE HALL SEVEN AND THE LEWIS SEVEN AND THE REPORT OF THE SUPPLIES OF THE SEVEN AND T

CENTIFICATION: IDENTIFY & COLOR-CODE CONDUCTORS & CABLES ACCORDING TO NEC. ARTICLE 210.5.

FIELD QUALITY CONTROL: AFTER INSTALLING CONDUCTORS & CABLES & BEFORE ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR COMPLIANCE WITH REQUIREMENTS PERFORM RADI VISIAL IN MEDIANICAL RECEIPMENT OF THE RESIDENCE OF THE RE

DUALITY ASSURANTE: COMPLY WITH UL 467 FOR GROUNDING & BONDING MATERIAL & FOURMENT.

COUPPENT GROWONG INSTALL INSLATED EXPENDIT GROWING CONDUCTORS WITH ALL FEEDERS & BRANCH INCLUSTS, RESTALL INSLATED EXPENDIT GROWD CONDUCTORS WITH THE FOLLOWING TIPES, IN ACROTION TO THESE EXRURIDED AN PRIME PRESENT EXPENDIT FOLIENCES, THE GROWING, RECEIVED ALL CROWNS, SINGLITHELE-PAUSE MOTION & APPLIANCE BRANCH FRUITS, FLORIBLE PARKEMAY RIMS, COMPUTE & ARRACHMAY RIMS, COMPUTE & ARRACHMANTED RECEIVED COMPIENT EXCENS.

INSTALLATION GROUNDING CONDUCTORS ROUTE ALONG SHORTEST & STRAIGHTEST PATHS POSSIBLI UNLESS DTHERWISE INDICATED OR REQUIRED BY CODE, AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, DAMAGE.

260529 HANGERS AND SUPPORTS

CONDUIT & CABLE SUPPORT DEVICES: STEEL HANCERS, (LAMPS, & ASSOCIATED FITTINGS, DESIGNED FOR TYPES & SZES OF RACEWAY OR CABLE TO BE SUPPORTED.

EXECUTION COMPLY WITH NECA 1 AND NECA 101 FOR APPLICATION OF HANGERS & SUPPORTS ELECTRICAL EQUIPMENT & SYSTEMS, SPACE SUPPORTS FOR ENT, MC, RMC AS REQUIRED BY MINNUM FOO SIZE SHALL BE 1/4 INCH IN QUIMETER.

NSTALLATION COPPLY WITH NECA 18 NECA 101 FOR INSTALLATION RECURRENTIS. AND/OR & FASTON ELECTRICAL ITEMS & THERE SUPPORTS TO BUILDING STRUCTURAL FLUMPING. CUT, HT, & FLACE MESCELLANDLES METAL SUPPORTS ACCURATELY IN LOCATION, ALLOWENT, & REVATION TO SUPPORT & ANCHOR ELECTRICAL MATERIAL & EQUIPMENT.

CONCRETE BASES: CONSTRUCT BASES OF DIMENSIONS INDICATED BY NOT LESS THAN 4 INCHES LABGER I BOTH DIRECTIONS THAN SUPPORTED LINIT, AND SO ANCHORS WILL BE A MINIMUM OF 10 BOLT DUMETERS FROM DOZE OF THE BASE. ANCHOR EQUEPHINI TO CONCRETE BASE, CHAMPER EDISOS OF CONCRETE.

260533 RACEWAYS AND BOXES

SEMBARY: RACEMAYS, FITTINGS, BOXES, ENLOSLESS, & CABNETS FOR ELECTRICAL WRING. RACEMAYS SHALL BE LOCATED & ROUTED SUCH THAT THEY ARE PERFENDICULAR & PARALLEL TO MALLS, CELINGS & STRUCTLESS. THEY SHALL NOT BE RAIN DISCONALLY OR AT GOTIZE ANALES FAR TALL POSSIBLE.

ENGINEER SHALL BE NOTIFIED & HADE AWARE OF POSSIBLE UNFORESEEN SITUATIONS DEVIATING FROM TH

DIALITY ASSIBANCE: COMPLY WITH NEPA 70

ONLINE SERVICE ON THE STEEL CONDUIT STEEL CONDUIT STEEL CONDUIT SERVICE CONFERENCE ON THE SERVICE ON THE SERVIC CONNECTION TO VIBRATING EQUIPMENT: LFMC BOXES & ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R OR 4

NOOSE
DESCRIPTION SARECT TO PRINCAL DUMME ENT
DESCRIPTION SARECT TO PRINCAL DUMME ENT
DONACTION TO WHAT HE CLEAPING THE PRINCAL DUMME ENT
DONACTION TO WHAT HE CLEAPING THE PRINCAL DUMP OR WIT LOCATIONS
DAVE OR NOT LOCATION ROOD SETS LOCATIONS
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DAVE OR HE LOCATION ROOD SETS LOCATIONS
DAVE THAT HE PRINCAL PRINCAL DUMPE COMMENTED CALLE DIM NO.

NOME THAT HE ONE OF WE L'ILCATIONS
DAVE THAT HE PRINCAL DUMPE SETS LOCATIONS THAT HE STANLESS STEEL OR
NOMETHALK OR DONE OF WE L'ILCATIONS

RACEWAY HITHOGS, COMPATIBLE WITH RACEWAYS & SLITABLE FOR USE & LOCATON STEEL, SET-SCREW OF TIMEBERSONN TYPE

EXECUTION
WIRING SHALL BE INSTALLED IN RACEWAYS, UNLESS OTHERWISE INDICATED. RUNS ARE DIMERAMATIC, ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD.
RACEMAYS IN COMERAL IEXCEPT WHERE OTHERWISE INDICATED SHALL BE ELECTRICAL METALLIK TUBING,
3/4 MINIOUR SYZE.

3/4" Himmon Size.

NI THE RARE DOCASIONS THAT A DEVICE DOES NOT ACCEPT A 3/4" CONDUIT A 1/2" CONDUIT IS
ACCEPTABLE AS LONG AS THE 1/2" CONDUIT IS KEPT TO A LENGTH NO LONGER THAN 6"-0" IN I
AT NO TIME SHALL THE NATIONAL ELECTRICAL CODE CONDUIT FILL REQUIREMENTS BE EXCEEDED.

nstallation; conceal conduit 3 bit within Finshed Walls, celing, 3 floors, liness otherwise indicated nstall conduits parallel or perpondicular to bullding lines. STALL PULL WIRES IN EMPTY RACEMAYS. USE POLYPRODYLENE OR MONOFILAMENT PLASTIC LINE WITH DT LESS THAN 200-LB TENSILE STRENSTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PUL VIRE.

LIGHTHMS SUBJECT TO VIBRATION, MOSE TRANSMISSION, OR HOWHING & FOR TRANSFORMERS & MOTORS,
SHALL HAVE A MAXIMAL ILBORID OF BIOCHES FOR FLECRIC CONCUST.

APPLY FRESTORMS TO ELECTECT, PERITATIONS OF FIRE-RATED FLOOR & WALL ASSEMBLES TO
RESTORE GRIGHAL FIRE-RESTANCE RATING OF ASSEMBLY.

260553 IDENTIFICATION

BUALITY ASSURANCE: COMPLY WITH ANSI A18.1 COMPLY WITH NEFA 10. ACHESIVE-ATTACHED LABELING MATERIALS, INCLUDING LABEL STOCKS, LAMINATING ADHESIVES, & INKS USED BY LABEL PRINTERS, SHALL

INSTALLATION: INSTALL IDENTIFICATION MATERIALS AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHO INTERFERENCE WITH OPERATION & MAINTENANCE OF EQUIPMENT.

EQUIPMENT DENTRICATION LABELS: APPLY LABELS TO DISCONNECT SWITCHES & PROTECTION E CENTRAL OR MASTER UNITS, CONTROL PANELS, CONTROL STATIONS, TERMINAL (ABINETS, & R.) SYSTEM SYSTEMS NILLDE POWER, LIGHTING, CONTROL, COMMUNICATION, SIGNAL, MONITORING, & ALAR-SYSTEMS LINLESS EQUIPMENT IS PROVIDED WITH ITS OWN DENTIFICATION, LABEL SWITCHBOARDS & PARLEBOARDS WITH DESIGNATION, VOLTAGE, SP. PHASE.

I ADD NO INCIDITIONS LABELINI INSTRUCTIONS: AND METHOD STATE OF THE STATE OF T

AUTOMATIC LIGHT-LIGHT SINGER AUDISTABLE FORM 7 TO 200 FF, KIEF LIGHTNO OF HIGH SELECTO
DEFINITE LIGHTS SINGER AUDISTABLE FORM 7 TO 200 FF, KIEF LIGHTNO OF HIGH SINGER
DEFINITE LIGHT FORWARD CETTER COMPANY OF SENSON A COMPANY OF HAIT IN HYDRON IN
SECURITY OF HIGH SINGER A FACILITY COMPANY OF HAIT IN HIGH SINGER A FACILITY COMPANY OF HIGH SINGER
DEAT THAT RESIDES A FACILITY COMPANY OF HAIT IN HIGH SINGER A FACILITY COMPANY OF HIGH SINGER A FACILI

PROVIDE PRODUCT DATA FOR EACH TYPE OF SENSOR, MARK SUBMITTAL WITH SAME DESIGNATIONS AS

sumhary; distribution & lighting & appliance branch-crouit panelboards, load centers are not acceptable, unless otherwise nolcated.

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SQUARE D OR A COMPARABLE

CHALIFY ASSIDENCE, COMDLY WITH NEWS DR. LE. MEDA. 30.

PRODUCTS
DICLOSIES FLUSH- & SUFFACE-MONITED CARNETS
BATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
NOOR DOT'S ECLEAN LOCATION. NUMB. 20, 179E 1
OUTDOOR LOCATION. NEW 205, 179E 1
WASH-LOWN MELAS NEW 205, 179E AJ, STANLESS STELL.
WASH-LOWN MELAS NEW 205, 179E AJ, STANLESS STELL. WARN-LOWIN MALES HERM (M). I THE, AS SHANCES STORY STEEL COMERS WERE ORDER WITH CORRECT MOORS (LECTIONS AND 25), THE C. MODOR (LOCATIONS SUBJECT TO LOST, FALLING DIET, I ENGRYMA MANOGROSHE LIQUIDS HEMA 25), Q. DEPETIORY CARDS NODE PARELEGARD CORP. POINTED IN THE MANAPHARM CARD HOLDER, CREATE A DEPETIORY TO NOTICE INSTALLED INCLUDIOS IN MICROPROMISE OF MAINS PHAIR 2004 DESCRIPTION LOST OF MICROPROMISE OF MAINS PHAIR 2004 DESCRIPTIONS AND ADMINISTRATION CONTROL STATE AND ADMINISTRATION CONTROL AND ADMINISTRATION CONTROL SALE MOST OFFICE ADMINISTRATION CONTROL SALE M ACCEPTABLE.
PARELBOARD SHORT-DIRCUIT CURRENT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CRUCIT CURRENT AVAILABLE AT TERMINALS.

DISTIBUTION PARE BOARDS KIPM PS 1, FOWER A FEEDER DISTIBUTION TYPE AND PS 1, FOWER A FEEDER DISTIBUTION TYPE MAIN CREAT BRAKER OR LUSS OF THE TOP THE TOP THE SERVICE BRANCH OVERCLERENT PROTECTIVE DEVICES BOLT-ON CREAT BREAKERS.

LEFTING & APPLINGE BRANCH-CROUT PANELBOARDS.

NOW AS ILLUSTING & APPLINGE GRANCH-CROUT TYPE.

NOW AS ILLUSTING & APPLINGE GRANCH-CROUT TYPE.

NOW AS CROUT BRANCH OR OLDS OWLY.

BRANCH OVERSICHERS OR USES OWLY.

BRANCH OVERSICHERS IN PROTECTIVE CEVIES- BOLT-ON CROUT BREAKINS, REPLACEABLE WITHOUT DETERMED AUDITED INTO ITS.

DISCONNECTING & OVERCURRENT PROTECTIVE DEVICES: MOLDED-CASE CROUIT BREAKER IMCOB), COMPLY WITH UL 489, WITH INTERRUPTING CAPACITY TO HEET AVAILABLE FAULT CURRENTS.

MOUNT TOP OF TRIM 12 NOISES ABOVE FINISHED FLOOR, MOUNT PANELBOARD CABINET FLUMB & RIGID WITHOUT DISTORTING BOX, MOUNT RECESSED PANELBOARDS WITH FRONTS LINFORHLY FLUSH WITH MALL FINISH & MATING WITH BACK BOX.

NSTALL OVERLURRENT PROTECTIVE DEVICES & CONTROLLERS NOT ALREADY FACTORY INSTALLED, SET FIELD-ADJUSTABLE, DROUT-BREADER TRP RANGES.

FLOOR SPALE OR BELOW SLAB NOT ON GRADE.

ARRANGE CONDUCTORS IN GUTTERS INTO GROUPS & BUNDLE & WRAP WITH WIRE TIES.

CHANGES DUE TO AGING, EXPOSURE TO HEAT, & UV RADIATION.
LENS THOOMESS: AT LEAST 0.125-INCH MINIMUM, UNLESS OTHERWISE INDICATED.
UV STABILIZED. TESTS & INSPECTIONS: PERFORM EACH VISUAL & HECHANICAL INSPECTION & ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATIONS, CERTIFY COMPLIANCE WITH TEST PARAMETERS. GLASS: ANNEALED CRYSTAL GLASS, UNLESS OTHERWISE INDICATED

ADJUSTING: AFTER SUBSTANTIAL COMPLETION, BUT NOT MORE THAN 60 DAYS AFTER FINAL ACCEPTANCE, MEASURE LOAD BALANCING & MAKE CIRCUIT CHANGES. DIFFERENCE EXCEEDING 20 PERCENT BETWEEN PHASE LOADS, WITHIN A PAPALEDARDAL IS NOT ACCEPTABLE.

262126 WIRING DEVICES QUALITY ASSURANCE: COMPLY WITH NEPA TO.

STRAIGHT BLADE RECEPTACLES.

CONVINIONE RECEPTACLES, 125Y, 20A: COMPLY WITH NEMA WO 1, NEMA WO 6 CONFIGURATION S-ZOR, B.U. 198. SPECIFICATION GRADE, PASS 3. SEYMOUR 5362 OR EQUAL.

GFCI RECEPTACLES: STRAIGHT BLADE, FEED-THROUGH TYPE. COMPLY WITH NEMA WID 1, N

TOGGLE SWITCHES: COMPLY WITH NEMA WO 1 & UL 20. SPECIFICATION GRADE.

WALL DIATES WALL PLATES

SENZE & COMMINION THES TO MATTH CORESPONDING WERRO DEVICE.

MATERIAL TOR IMPERIO SPACES SWOTCH, HER-PERAT THERMOLISTIC BOOTS-INCH-THICK, SATINMATERIAL TOR LIMPERIOD SPACES GALVENAND WITH SPREAD, ADMINISTRATION OF THE MATERIAL FOR DIVERPICATIONS COST ALLERAND WITH SPREAD, ADMINISTRATION FOR DIVERSITY (LATER OF ALLERICA SPACES) AND ALLERICATION OF THE CONTROL OF ALLERICATION OF THE SPACES OF

provinces.

Device colors

Wirks devices (Conected to Normal Power System as selected by Architect Unless

Otherwise nolicated or regulard by NFPA 70 or Device Listing, match distring where MIRING DEVICES CONNECTED TO EMERGENCY POWER SYSTEM: RED WALL PLATE COLOR: FOR PLASTIC COVERS, MATCH DEVICE COLOR

NETALLATION COPPLY WITH NICA. 1. INCLUDING MONITOR HEGHTS LISTED IN THAT STANDARD MALES OF DIRECTORS IN THE SOURCE AND LOCATION OF THE SOURCE AND LOCATION OF THE SOURCE AND LOCATION OF THE TOWN SAVE AND LOCATION OF THE SOURCE AND LOCATION OF THE TOWN SAVE AND LOCATION OF THE SOURCE AND LOCA WALL SMITCHES AT 48" AFF UNLESS OTHERWISE NOICATED DO NOT INSTALL/LOCATE OUTLETS BACK-TO-BACK EVEN IF ASSOCIATED WITH DIFFERENT SYSTEMS.

RELO QUALITY CONTROL: PERFORM TESTS & INSPECTIONS, VERBY THAT DEVICE & OUTLET BOX AR SEQUELY MOUNTED, CORRECT DIROUT CONDITIONS, REMOYE MALFUNCTIONING UNITS & REPLACE WIT

MANUFACTURERS SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SQUARE O. OR A COMPARABLE PRODUCT, OBTAIN ENCLOSED SWITCHES & CIRCLET BREAKERS, OVERCLERENT PROTECTIVE OUVERS, COMPONENTS, & ACCESSORES, WITHIN SAME PRODUCT CATEGORY, FROM SINGLE SYMPTY

COORDINATION COORDINATE LAYOUT & INSTALLATION OF SWITCHES, DROUT BREAKERS, &

NOTO GLORACT SINANDO CONTROL C

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SQUARE D OR A

COGREMATION: COORDINATE LAYOUT & INSTALLATION OF ENCLOSED CONTROLLERS WITH OTHER CONSTRUCTION INCLUDING CONDUIT, PRING, EQUIPMENT, & ADJACENT SURFACES, MAINTAN REQUINDED CLEARANCES FOR EQUIPMENT ACCESS DOORS & PANELS.

PRODUCTS: FULL-VOLTAGE CONTROLLERS

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OCPD, & DISCONNECTING MEANS.

AUXILIARY CONTACTS: NO FAC, ARRANGED TO ACTIVATE BEFORE SWITCH BLADES CIPEN.

NORFISIBLE DISCONNECTING MEANS: NEMA IS 1, HEAVY-DUTY, HORSEPOWER-RATED, NONFISIBLE

SWITCH LOCKABLE HANDLE: ACCEPTS THREE PADLOOKS & INTERLOCKS WITH COVER IN TLOSED

DICLOSURES INPIA ES 6, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION ONLY & CLEAN INCORE CICATIONS. TYPE 1 OUTDOOR LOCATIONS: TYPE 39 OUTDOOR LOCATIONS: TYPE 4X, STAINLESS STEEL

OTHER WET OR DAMP MODGE LOCATIONS TYPE 4 NDOOR LOCATIONS SUBJECT TO DUST, FALLING DIRT, & DRIPPING NONCORROSIVE LIQUIDS TYPE 12 ACCESSORES; GENERAL REQUIREMENTS FOR CONTROL CIRCUIT & PILOT DEVICES; NEMA ICS 5; FACTORY INSTALLED IN CONTROLLER ENCLOSURE COVER UNLESS OTHERWISE INDICATED.

NSTALLATION INSTALL ENCLOSED CONTROLLERS ON WALLS WITH TOPS AT UNFORM FERHT & BY BOLTING BUTS TO MALE OR PROMITING ON LIGHT STRUCTURAL-STEEL (HINNELS SOLTED TI WALL. FOR CONTROLLERS NOT AT WALLS, PROVIDE PRESTANDING RACKS, INSTALL WRING BETWEE DIKLISBID CONTROLLERS & REPORTE EDIVICES. ADJUSTING: SET FIELD-ADJUSTABLE SWITCHES. AUXILIARY RELAYS. TIME-DELAY RELAYS. TIMERS. 8

265100 INTERIOR LIGHTING GENERAL REQUIREMENTS FOR LIGHTING FOCTURES & COMPONENTS

265619 EXTERIOR LED LIGHTING

UMNAIRE REQUIREMENTS: ELECTRICAL COMPONENTS, DEVICES, AND ACCESS

LUMNAIR MOUNTED PHOTOELECTRIC RELAYS: COMPLY WITH UL 773 OR UL 773A

MATERIAL HOUSINGS: RIGIDLY FORMED, WEATHER- AND LIGHT-TIGHT ENCLOSURE THAT WILL NOT WARP, SAG, OR DEFORM N

sagging Doors, Frants, & Other Internal Actess shooth departing, free of Light Learage Lacer opparting Conditions, descend to permi relamped without use of Tools, descend to previant Doors, Prants, Liness, diffusers, & Other Comptonius from Falling Accidentally Liring Relamping & Hern Sclurgo in Operating Postings. IS & GLOBES: Lighting diffuser: 100 percent virgin acrylic plastic, high resistance to yellowing & other Kammation: Examine substrates, areas, and conditions, with installer present, for compliance with Examenents for installation tolerances and other conditions affecting performance of the MORK.
- EXAMINE ROUGHING-IN FOR LUMINAIRE ELECTRICAL CONDUIT TO VERIFY ACTUAL LOCATIONS OF CONDUIT

GENERAL INSTALLATION REQUIREMENTS:

270528 PATHWAYS FOR COMMUNICATIONS SYSTEMS

PATHWAYS: General requirements: (OMPLY with Tia/Eia-569-A. Conduit a Boxes: Quillet Boxes shall be no shaller than 4 inches Mide. 4 inches High. B 2-178

TEST ENGRGENCY LIGHTING, INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER OPERATION, VERHY TRANSFER FROM NORMAL POWER TO BATTERY AND RETRANSFER TO NORMAL, TEST SHALL BE 50 MINUTE ON BATTERY SOURCE OUTY AND SHALL MANTHAN BLUNNATION, BEFALE LIMITS/SHATTERIST SHAT FALL TESTING.

CONSIDER INJURIED TO LUMBRAINS
LUMBRIES SHALL COMPLY WITH UIT 598 & BE LISTED & LABELED FOR INSTALLATION IN WET LOCATION BY
AN INSTIT. ACCEPTABLE TO AUTHORITES HAYING JUNISDICTION.
METAL PARTS: FREE OF BURRS & SHARP CORNERS & EDGES.

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, SYSTEM SHALL BE SIEMENS, NOTIFIER OR A COMPARABLE PRODUCT, OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER

HOUSES BOOK Y FORMS, MATINES, ELDINITORI BIOLOSSIS THAT WILL NOT MARE, SAUL DOLLARS, DUEL FROMOR IL TRIBUNATION FOR MOLDOSIO DUMMANES. REV. TO THE OFFICE MARE AND TH SHOP DRAWINGS: SUBHITTALS SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO SUBHITING THEN TO ARCHITECT. INCLUDE PLANS, ELEVATIONS, SECTIONS, DITALS, & ATTACHEMIS TO OTHER WORK, NULLUDE VOLTAGE Depor LALQUARTIONS FOR INTERCENTION-APPELIANCE GROUPS, INCLUDE

ENSES AND REFRACTORS GASKETS: USE HEAT- & AGING-RESISTANT RESILIENT GASKETS TO SEAL & CUSHION FIRE ALARM CONTROL UNIT:

DEVICES, NOTIFICATION APPLIANCES, SIGNALING LINES, TROUBLE SIGNALS, SUPERVISIENT & DIGITAL ALAPM COMMUNICATOR TRANSMITTERS SHALL BE POWERED BY 22-V DC SOURCE. SICODIARY POWER Z-V DC SUPERVISITED WITH BATTERES, AUTOMATIC BATTERY OHARGER, & AUTOMATIC TRANSPER SWITCH. BATTERIES: SEALED LEAD CALCEM.

DESTAL ALARM COMMUNICATOR TRANSMITTER SHALL BE ACCEPTABLE TO THE REMOTE CENTRAL STATION & SHALL COMPLY WITH UL 632 AND BE LISTED & LABOLED BY AN NETL.

MIRING METHOD: COMPLY WITH NECA 1 & NEPA 12: INSTALL PLENUM CABLE IN ENVIRONMENTAL AIR SPACES, NACIONAL OFFICIAL PROPERTY.

NOT REQUIRED TO BE IN CONDUIT WHERE INSTALLED ABOVE ACCESSIBLE CELINGS. MIRING INSTALLED ABOVE NON-ACCESSIBLE CELINGS SHALL BE IN CONDUIT. ALL CONDUIT SHALL BE 3/4" WITH RED COLOR.

FIELD QUALITY CONTROL: COMPLY WITH "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "MSPECTION, TESTING". MINITEMANCE" CHAPTER IN MPPA 72, FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION, INSPECTION SHALL BE COORDINATED BY ELECTRICAL CONTRACTOR

RECESSED FATURES. COMPLY WITH NEMALE 4 FOR CELING COMPATIBILITY FOR RECESSED FIXTURES. INCANCESCENT FATURES. COMPLY WITH UL. 1598.

FULLIFIESTED FATURES. COMPLY WITH UL. 1598. SHEET METAL COMPONENTS: STEEL UNLESS OTHERWISE INDICATED, FORM & SUPPORT TO PREVENT WARPING &

SEMERAL REQUIREMENTS FOR EXIT SIGNS. COMPLY WITH UL 924; FOR SIGN COLORS, VISBILITY, LUMNANCE, & ETTERNIG SIZE, COMPLY WITH AUTHORITIES HAVING JURISDICTION. LETTERNS SEC, DEPT. WITH AUTHORS HAVE A REPORT DEPT. LETTERNS SEC, DEPT. WITH AUTHORS A REPORT OF THE AUTHORS HAVE A REPORT OF THE AUTHORS AND A REPORT OF THE AUTHORS AND

EMERGENCY LIGHTING UNITS: GENERAL REQUIREMENTS FOR EMERGENCY LIGHTING UNITS: SELF-CONTAINED UNITS COMPLYING WITH UL 924.

LICHTING FIXTURE SUPPORT COMPONINTS:
COMPLY WITH DIVISION 26 SECTION "MANGERS & SUPPORTS FOR FLECTRICAL SYSTEMS" FOR CHANNEL &
MORGLE-RION SUPPORTS & MONITERALLIC CHANNEL & ANGLE SUPPORTS
SINGLE-SIEM HANGERS VZ-MAN STELL LIBRIGO WITH SWITH BALL HITHINGS & COLING CANDEY, FINISH SAME

AS PIXTURE.
TWN-STEM HANGERS: TWO, 1/2-INCH STEEL TUBES WITH SINGLE CANOPY DESIGNED TO MOUNT A SINGLE.

COMPLY WITH NECA 1 INSTALL LUMINAIRES LEVEL, PLUMB AND SQUARE WITH CELINGS AND WALL UNLESS OTHERWISE

SEPERATES
SEED AND RATED FOR LUMMARIE WEIGHT.
ABLE TO MANTAN LUMMARIE POSTEIN AFTER (LEANING AND RELAYPING.
FROYCE SEPERAT FOR LUMMARIE WITHOUT CAUNNS DEPLETEND OF CRINN OR MALL
LUMMARIE FOUNTING DEVIES SHALL BE LEVARLE OF SEPERATIONS A PROZEDIMAL FORCE OF 100% OF
LUMMARIE MODITAL ON CHITICAL FORCE OF 100% OF LUMMARIE WEIGHT.

SERVING LIGHTER TRUE SERVET. THIN IS BOLS, SELCT TO LIFE SHADING.
2 STH-ANDRESS HERE DOES THIN LIGHT SHADING.
2 STH-ANDRESS HERE DOES THIN IS SHADING.
3 STH-ANDRESS HERE DOES THE SHADING STHE WAS SHADING.
3 CHOMINUS SHOW SET THIN IS STHE WARD AT SHADING HERE AND THE SHADING.
FOR TAKIN HELD LIGHT SHADING SHADING ONE AT EACH BOD OR RESPONSOR
STRUTTEN LIGHT FORTHER SHADING.

LIGHT FIXTURES RECESSED IN SUSPENDED CEILINGS SHALL BE ATTACHED TO GRID AND HAVE TWO (2) WIRES HIMMLM INSTALLED AT DIAGONAL CORNERS TO STRUCTURE.

PROVIDE PRODUCT DATA FOR EACH TYPE OF LIGHTING FOXTURE. USE SAME DESIGNATIONS INDICATED ON DRAWINGS.

recessed fixture: comply with Nema Le 4 for celing compatibility for recessed fixtures, comply with NPPA 30, IEEE (2, AND CALIFORNA TITLE 24 OWNERE REQUIRED).

IES LH-06 AND TH-21
ABSOLUTE PHOTOPETRIES SHALL BE AVAILABLE FOR EACH LUMMARE BASED ON IES LM-79.
INCIVIDAL LEDS WITHIN THE LUMMARIE SHALL BE CONNICTED SUCH THAT LOSS OR FAILURE OF A SINGLE
LED WILL NOT RESULT IN THE LOSS OF THE ENTIRE ARRAY.

CODRONATE CONDUCTOR QUANTITY WITHIN FIXTURE WHPS WITH FIXTURE SELECTION AND LIGHTING CONTROL REQUIREMENTS, 0–10V DIMMING FOXTURES REQUIRE ADDITIONAL CONDUCTORS FOR LIGHTING CONTROL.

ANCHELIUM LIASS, INTERNALT COURSED DE ELECTRATIFICAT USPASITED COUR COATRO, 6089 FO OR THEORIC CORP. TOWN WITH AMM OFF COLORS NATIONAL ALUMENT OLORS NATIONAL SELECTION OF THE THEORIE SERVICE PERCOMPROSE LAPPS & BALLASTS. LABELS SHALL BE LOCATIO METRE THEY MILL BE READELY VISBLE TO SERVICE PERSONNEL, BUT NOT SERV FROM NORTH, LYBINGS NICES WITH LAWS SER PLACE.

GENERAL REQUIREMENTS FOR POLES & SUPPORT COMPONENTS.
STRUCTURAL CHARACTERISTICS COMPLY WITH AMSHOLD IS-LAY
STRUCTURAL CHARACTERISTICS COMPLY WITH AMSHOLD IS-LAY
STRINGTH AMALYSIS FOR EACH POLE, MULTIPLY THE ACTUAL COUNTAINT PROJECTED AREA OF LUMINARISS
& BRACKETS BY A FACTOR OF 13 TO OBTAIN THE COUNTAINT PROJECTED AREA TO BE USED IN POLICE.

A BOULDES STEERN FALL HAS VESS.

1 WHO SHE STEERN FALL HAS VESS.

1 WHO SHE STEERN FALL HAS VESS.

1 WHO SHE STEERN FALL HAS VESS.

1 WE STANKES-STEEL FASTENESS I PROMITING BOLT IS MUSS O'HERMEST BOULDED.

1 WE STANKES-STEEL FASTENESS I PROMITING BOLT IS MUSS O'HERMEST BOULDED.

1 WHO SHE STEERN FALL IS APPRETITATIVES. O'GORGOSON-RESISTANT HITTED COPATIBLE, WHITE SPECIAL TO O'HER VESS.

1 WHO SHE STEEL STEEL HAS VESS.

1 WHO SHE STEEL STEEL

THERMISE NORTATED.

ANCHOR-BOLT TEMPLATE: PLYMOOD OR STEEL.

HAMPHOLE: OVAL-SHAPED, WITH HINMUM (LEAR OPENING OF 2-1/2 BY 5 INCHES, MITH COVER SECURED BY

STANLESS-STEEL CAPTIVE SCREWS. CONCRETE POLE FOUNDATIONS: CAST IN PLACE, WITH ANCHOR BOLTS TO MATCH POLE-BASE FLANCE.

ROVIDE PRODUCT DATA FOR EACH TYPE OF LIGHTING FIXTURE. USE SAME DESIGNATIONS INDICATED ON

LISTED AND LABELED AS DEFINED IN NFPA 10, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

tl compliance: Luminaires shall be listed and labeled for indicated (lass and division of hazard by an

LED LAMPS SHALL HAVE A MINIMUM (R) OF 80. LUMMAIRE POWER FACTOR: 0.90 OR HIGHER. TOTAL HAPPONIC DISTORTION RATING LESS THAN 20 PERCENT

MSTALLATION

265119 INTERIOR LED LIGHTING

265600 EXTERIOR LIGHTING

GENERAL REQUIREMENTS FOR LUMINAIRES

L70 LAMP LIFE OF 50,000 HOURS

PROVIDE EL TERVAREATHER EDR ENCLOSED LUMINAIRES

IBERAL NSTALLALIUM ROUMED AND A COPILY MIN NECA 1 WRNG HETHOD, INSTALL CARLES IN RACEWAYS, CONCEAL RACEWAYS AND CABLES CORDINATE LAYOUT AND INSTALLATION OF LUMBARES WITH OTHER CONSTRUCTE

WITH THE PROPERTY OF THE PROPERTY OF THE PROPERTY ON THE PROPERTY OF THE PROPE

GROUNDING INSTALL GROUNDING ACCORDING TO BICSI TOMM, "GROUNDING, BONDING, & ELECTRICAL

QUALITY ASSURANCE PERSONNEL SHALL BE TRAINED & CERTIFIED BY MANUFACTURER FOR INSTALLATION

EQUIPMENT INSTALLATION

COMPLY WITH NIPA 12, NIPA 101, 3. REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR

NETALLATION 3. TESTING OF PRE-ALARM EQUIPMENT. INSTALL ALL ELECTRICAL WIRING TO COMPLY WITH

GROUPMENTATE, IN MICE. 101.

PATHWAYS: PROVIDE RECESSED BACKBOXES AND CONDUIT STUB-UPS TO ABOVE ACCESSIBLE CELINISS AT ALL PRINSHED ARRAS. AT UNPRINSHED ARRAS - BACKBOXES AND CONDUIT SHALL BE INSTALLED SUFFACE MOUNTED WITH CONDUIT UP TO STRUCTURAL (ELEU DA JOHN FAND) THOUGHOUT EXPOSED CHUM SAFA. WRING IS

IDENTIFICATION: IDENTIFY SYSTEM COMPONENTS, WIRING, CABLING, & TERMINALS. INSTALL FRAMED INSTRUCTIONS IN A LOCATION VISIBLE FROM FIRE-ALARM CONTROL UNIT.

J22/U±₁∟. e<u>visions</u> ⊓ate

E5.1