



AGENDA
President and Board of Trustees
Village of Arlington Heights
Board Room

Arlington Heights Village Hall
33 S. Arlington Heights Road
Arlington Heights, IL 60005
February 3, 2025
7:30 PM

- I. CALL TO ORDER
- II. PLEDGE OF ALLEGIANCE
- III. ROLL CALL OF MEMBERS
- IV. APPROVAL OF MINUTES
 - A. Village Board 01/21/2025 Meeting Minutes
- V. APPROVAL OF ACCOUNTS PAYABLE
 - A. Warrant Register 01/30/2025
- VI. RECOGNITIONS AND COMMUNICATIONS
 - A. Swearing in of Newly Promoted Fire Department Personnel
- VII. PUBLIC HEARINGS
- VIII. CITIZENS TO BE HEARD

Anyone wishing to speak on a subject not on the Agenda should fill out a card, located in the back of the room, and hand it to the Village Clerk. Please limit your comments to three minutes.

IX. CONSENT AGENDA

This Agenda consists of proposals and recommendations that, in the opinion of the Village Manager, will be acceptable to all members of the Board of Trustees. The purpose of this Agenda is to save time by taking only one roll call vote instead of separate votes on each item. Consideration of this Consent Agenda will be governed by the following rules and procedures prior to roll call vote:

- 1. Any Trustee who wishes to vote "no" or "pass" on any Consent Agenda items should so indicate.

2. Upon the request of any one Trustee, any item will be removed from the Consent Agenda and considered separately after adoption of the Consent Agenda.

3. Citizens in the audience may request that the Board remove any item from this Consent Agenda for separate consideration after adoption of the Consent Agenda.

4. One roll call vote will be taken and will cover all remaining Consent Agenda items.

- A. Bond Waiver - Arlington Heights Memorial Library
- B. Resolution Appointing A Delegate To The Intergovernmental Risk Management Agency
- C. Resolution Authorizing the Purchase of Mobile Vehicle Barriers from Meridian Rapid Defense Group
- D. Resolution Approving an Intergovernmental Agreement (IGA) for Cost Participation Related to Village-Owned Assets within State R.O.W. under IDOT Contract 62N91
- E. Resolution Authorizing the Purchase of a 2025 Ford F550 Cook County EMRS UASI Grant
- F. Resolution To Extend a Professional Services Agreement for Construction Inspection Services for 2025 Resurfacing
- G. Resolution Approving the Purchase of Safety Glass Barriers
- H. Resolution for Purchase of Fire Hose
- I. Appointment of Melissa Gallagher to the Board of Trustees of the Firefighters' Pension Fund, term ending April 30, 2026
- J. Adoption of an ordinance amending Chapter 13 of the Village Code to increase the number of Class N(r) liquor licenses to one, and recommendation that the Liquor Commissioner issue one Class A license and one Class N license to Krish Arlington 1 LLC dba Courtyard Chicago Arlington Heights located at 100 W. Algonquin Road

X. NEW BUSINESS

- A. Appointment of Tripp Turchik to the Special Events Commission, term ending April 30, 2025
- B. Chase Bank - 585 E. Palatine Rd. / Sign Variation - DC#24-071
- C. Urban Air at Arlington Plaza - 30 W. Rand Rd. - PC#24-017
Special Use Permit for Amusement, Large & Special Use Permit for Restaurant with Variations

XI. ADJOURNMENT

Persons with disabilities requiring auxiliary aids or services, such as an American Sign Language interpreter or written materials in accessible formats, should contact the Health & Human Services Department, at 33 S. Arlington Heights Road, Arlington Heights, IL 60005, healthmail@vah.com or 847/368-5760.



MINUTES
President and Board of Trustees
Village of Arlington Heights
Board Room

Arlington Heights Village Hall
33 S. Arlington Heights Road
Arlington Heights, IL 60005
January 21, 2025
7:30 PM

I. CALL TO ORDER

II. PLEDGE OF ALLEGIANCE

III. ROLL CALL OF MEMBERS

President Hayes and the following Trustees responded to roll: James Bertucci, Wendy Dunnington, Nicolle Grasse, Robin LaBedz, Tom Schwingbeck, Scott Shirley, and Jim Tinaglia. Trustee Richard Baldino was absent.

Also present were: Randy Recklaus, Diana Mikula, Hart Passman, Emily Rodman, Tom Kuehne, Cris Papierniak and Becky Hume.

IV. APPROVAL OF MINUTES

A. 01/06/2025 Meeting Minutes

Trustee Schwingbeck moved to Approve. Trustee LaBedz Seconded the Motion.
The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee LaBedz, Trustee Schwingbeck, Trustee Shirley, Trustee Tinaglia

Nays: None

Abstain: Trustee Nicolle Grasse

Absent: Trustee Baldino

V. APPROVAL OF ACCOUNTS PAYABLE

A. 01/15/2025 Warrant Register

Trustee Bertucci moved to Approve in the amount of \$3,050,977.24. Trustee LaBedz Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Shirley, Trustee Tinaglia

Nays: None

Absent: Trustee Baldino

VI. RECOGNITIONS AND COMMUNICATIONS

President Hayes honored retiring Finance Director Tom Kuehne saying he appreciated his expertise over the past 21 plus years and his watching out not just for the Village Board but for all residents. He presented Mr. Kuehne with a Village Coin. Mr. Recklaus said Mr. Kuehne is one of those unique people that has a deep technical knowledge of a subject and the ability to explain it well to the average person. He's also one of the most genuine and down to earth people. He helped the Village navigate a number of fiscal crises and challenges over the years, and he always found unique and creative ways to get value without sacrificing integrity or transparency. He made it look easy but it is not.

Former Village Manager Bill Dixon said Mr. Kuehne had an unflappable and calm demeanor. Whenever he came with problems, he also came with solutions. He helped determine funding sources for this campus, the Public Works upgrade, the emerald ash borer, and the refunding of bond issues which have saved this community millions of dollars. This savings translates to residents, businesses and the Village government. He had a steady hand throughout the Great Recession and gave good advice.

Mr. Kuehne thanked the Board, the Village Managers and his fellow employees.

A. Recognition of John Hersey High School boys soccer team - Class 3A State Champions

President Hayes congratulated the team for its successes and read the Proclamation. Coach Michael Rusniak and Team Captain Rey Reyes thanked the Board for the recognition.

VII. PUBLIC HEARINGS

VIII. CITIZENS TO BE HEARD

Anyone wishing to speak on a subject not on the Agenda should fill out a card, located in the back of the room, and hand it to the Village Clerk. Please limit your comments to three minutes.

Art Ellingsen announced the development of a statue in Des Plaines acknowledging servicemembers who were affected by Agent Orange in the Viet Nam War. He solicited donations to the cause.

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1. Any Trustee who wishes to vote "no" or "pass" on any Consent Agenda items should so indicate.

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3. Citizens in the audience may request that the Board remove any item from this Consent Agenda for separate consideration after adoption of the Consent Agenda.

4. One roll call vote will be taken and will cover all remaining Consent Agenda items.

Trustee LaBedz moved to Approve. Trustee Schwingbeck Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Shirley, Trustee Tinaglia

Nays: None

Absent: Trustee Baldino

A. Recommendation that the Liquor Commissioner issue a Class A Liquor License to KROSS CORP dba NIKKO SUSHI located at 282 E. Algonquin Road due to new ownership

B. Resolution Approving a Contract Extension for 2025 Public Property Turf Mowing
R2025-007 / A2024-04

C. Resolution Approving a Contract Extension for 2025 High Profile Landscaping
R2025-008 / A2024-05

D. Resolution Approving a Contract Extension for 2025-2026 Hot Mix Asphalt Restoration

R2025-009 / A2024-06

E. Resolution Approving the Suburban Tree Consortium for Parkway Trees Program - Membership & Participation 2025

R2025-010

F. Resolution Approving the Purchase of Two-Wheel Lifts for Public Works

R2025-011

H. Appointment of Kristen Schurtz to the Plan Commission, term ending April 30, 2027

I. Resolution Approving the Purchase of Office Furniture for the Fire Department

R2025-013

J. Bond Waiver - St Edna Parish

K. Bond Waiver - Patton Elementary School PTA

L. Resolution Approving the Purchase of Office Chairs

R2025-014

President Hayes administered the Oath of Office to Ms. Schurtz.

X. NEW BUSINESS

Denise Reyes, Project Manager for Full Circle, said they were responsive to Village feedback in changing the building height from three stories to two and reducing the height to 25 feet at the midpoint. The west facing elevation orientation was kept and the parking lot faces Arlington Heights Rd. to reduce the noise and disruption of the neighbors. The project also minimized the distance to the east neighbors by providing the robust landscape buffer adding mature trees and landscaping that will diffuse sight lines between the building and the neighbors. Existing trees will be kept whenever possible, but they are also planting about 100 new trees across the site. There'll be a six-foot privacy fence along the perimeter of the property lined with evergreen trees that will be a minimum of eight feet tall at the time of planting. The building is still 25 units. It's a permanent supportive housing for persons with disabilities with preference for veterans. The building was elongated to the north preserving the detention pond's size. On the south end is stormwater retention area which will be dry bottom. There are 51 parking spaces, eight of which will be handicapped accessible. The driveway will have a connecting pathway through to the property to the north and potentially can be extended to the east if Emerson were to have a passthrough.

The design incorporates more brick which fits better with the aesthetics of the area. A bump out in the middle of the façade was added to make it a little more interesting. The building is 25 feet, 11 inches tall which is lower than the height allowed for a new construction single family home within the Village Code. The east elevation goes out to the patio and garden beds. There is a screen wall that covers the HVAC systems and also has material to reduce the sound of those mechanicals.

Mr. Recklaus stated this development has been discussed thoroughly in a number of public meetings and in a lot of individual meetings with staff, as well as members of Board, who have met individually with residents and the petitioner. In August, the Village discussed a number of aspects including safety, staffing, maintenance, tenant eligibility, zoning compatibility, the business model, landscaping, and access. None of those issues have changed from what we're going to be discussing tonight. The Village Board indicated support for the overall concept of the development at the August 19th meeting. However, based on input from the from the public relative to building height, the Board directed staff to work with the petitioner on the development of two-story concept. This re-design was completed and the Design Commission approved it. Tonight, we're going to focus solely on the new concept developed. If the Board approves the concept tonight, will be the final Board action on this matter.

Ms. Rodman said the property is currently zoned O-T (office transitional zoning district) and the Comprehensive Plan designates the property for office use. The four actions that they are requesting are:

1. An amendment to the Comprehensive Plan to reclassify the property from the office use to an institutional use
2. Approval of a Preliminary Plat of Subdivision to consolidate the seven parcels into one
3. Rezoning of the property from O-T to Institutional
4. Approval of a Planned Unit Development to allow for the 25-unit permanent supportive housing facility to be constructed.

There is no zoning relief required as they are no longer seeking any variations for the property. This has been a very robust public review process there have been 13 public meetings in total. At the urging of the Board after the August 19th meeting, Full Circle

revised the three-story plan. The Design Commission reviewed the new plan. The facade materials and colors are very similar to what we saw with the three-story concept. What they have modified is the height which was reduced and the parking lot configuration has been slightly modified to improve access to the loading zone and to improve cross access to the site to the north. They have staggered the facades increasing the dimension and making the building look less commercial. The redesigned building appears more residential in scale. More brick has been added as well. Ms. Rodman reviewed the history of the proposals.

Related to the voting, there was a protest petition filed by the adjacent property owners which triggers a supermajority vote of the Village Board, so 6 votes in favor are required for the project to pass. Ms. Rodman summarized the four motions presented.

President Hayes said the project has changed as a result of a lot of input from a lot of different people including the Board, the residents in the neighborhood, and many others. He said the participation is appreciated. He said he was comfortable supporting this two-story modified proposal.

Trustee Schwingbeck noted the land has been sitting for a very long period of time. He believes this project is something that's going to make the neighborhood a little bit more attractive. He supported the reduction in height to two stories after listening to the neighborhood. He said the Village seriously needs independent living like this the new residents of the building are going to be able to live a much better and productive life. He said he was in favor.

Trustee LaBedz said she was in favor of the three-story building and is in favor of the two-story building. She said she was really glad the Board asked for this redesign as it looks much better and fits in much better. She said the Eastman project, which is a multi-story building on Eastman behind her house, had pushback too. The developer was required to redesign it. It also came back as a much better project. She said the two-story aspect fits in better along Arlington Heights Rd. She liked the bump out effects. It almost looks more like townhomes. She said she was in support.

Trustee Shirley said he was still opposed to this project and will be voting no tonight. He said he does not oppose this type of use or this type of housing he just doesn't think it belongs at this location. What he heard tonight seems like a little bit of revisionist history. Full Circle did not make any of these changes willingly. If not for a challenge flag thrown by the Plan Commission, this development would have been approved with the building facing the wrong direction so all the parking and all the activity was against the single-family neighborhood, and it would have been three stories tall. Only after being denied, did Full Circle turn the building around as it should have been at the beginning. They maintained that they could not build anything except a three-story building many times. He said it was lousy the way this whole thing went down. He thinks Full Circle will be a terrible neighbor if they treat people the way they did during this process. He said he hopes they turn it around because this was just this was despicable. People on some commissions were demonizing and disparaging residents because they opposed this project based on a zoning change for the intensity of it next to a single-family neighborhood. The argument was not about not liking people that are with disabilities. He said he appreciates the changes that were made and acknowledges that it looks better and it's facing the right direction.

Trustee Tinaglia said on first review, he wanted the building flipped so that it faced the road to get the parking out of the people's backyards, and lower the building from three

stories to two. But for the tenacity of some of the people involved, these things might not have happened. He said the process worked and better things happened. He said he would vote in favor because of those three changes.

Trustee Tinaglia said he thought 51 parking spaces over parks the building as many residents do not have cars. Joshua Wilmoth, President of Full Circle, said their analysis indicates that about 30% of the residents would have cars, so that would be somewhere in the neighborhood of 7 1/2 to 10. Trustee Tinaglia asked for staff to consider working with the petitioner to reduce the required paved space and land bank parking spaces in case they are ultimately needed. That way, if that building were to ever be sold and become a market rate building, and everybody drives, there are parking spaces that could be built. It's too much asphalt, too much plowing, and too many water drainage issues which don't need to occur for this use.

Trustee Tinaglia said he thinks the property has been vacant since the 90s under its current zoning. He recalled several office projects which were never built. There was never a market for it in that area. This is something that's needed. He said he hoped Full Circle does exactly what Trustee Shirley says and becomes really excellent neighbors.

Trustee Bertucci concurred that he wanted the building to face Arlington Heights Road. He also had concerns about the original height. This corridor has only one and two-story buildings. He appreciated what was changed. It was a shame that we had to push it to be done. Trustee Bertucci asked if Full Circle didn't live up to the requirements of the PUD, what is the Village's recourse? Mr. Recklaus said notices of violation would be issued to the property owner. Then compliance would be sought. If they don't come into compliance, then they will be given a ticket through Administrative Adjudication. At that time the Adjudicator may issue a fine. We've done these before and the fines can become quite punitive until the operator comes into compliance.

Trustee Bertucci asked about tenant capacity. There is maximum occupancy of no more than two occupants in a bedroom on the property. Mr. Wilmoth said there are 20 one-bedroom units and 5 two-bedroom units. That is Full Circle's standard to which they adhere. Trustee Bertucci noted the owner must provide onsite staffing of no less than one site manager present from 9:00 to 5:00 Monday through Friday. Mr. Wilmoth said there was some negotiated language so that they could be flexible with the hours to account for some evening or Saturday hours. They had requested this amendment. Ms. Rodman said staff was amenable to amend this requirement to a full-time employee with hours to be determined once they're on site with the residents. Staff just didn't get the amendment into this version. Full time is at least 35 hours per week with a lunch break. It might look like 9 to 5 Mondays, Tuesdays, and Thursdays, with 11 to 7 on Wednesdays, and Saturday full time hours. The hours will be posted and residents will be aware of the office hours.

Trustee Bertucci asked about the maintenance staffing. Mr. Wilmoth said they have several maintenance staff in the area who serve multiple buildings. They are expected to be on site at least 20 hours per week. Full Circle is partnering with organizations who will provide two full-time case managers on site. Full Circle residents may come with their own case managers too. Some of the case management services may be telehealth or similar things and so they are also asking for the ability to do off site services in addition to on site services.

Trustee Bertucci asked if Mr. Wilmoth understood that they must provide a written report to the Village on an annual basis. Mr. Wilmoth said yes.

Trustee Bertucci raised the issue of the rejection criteria. For example, it says people with a criminal conviction about physical violence to persons or property or endangered the health and safety of the persons within the last 10 years may be rejected. Mr. Wilmoth said they are like all landlords and are subject to the Just Housing Ordinance of Cook County which means that they cannot have blanket rejections for criminal history. They must follow the County law which stipulates that each individual with a criminal background must be individually assessed. Once they make that assessment, they notify the applicant whether they have been accepted for housing or not. It is subjective and individualized to the applicant.

Trustee Bertucci asked if the building were sold, could it have another use? Mr. Passman said the Board would have to approve an alternate use. Under this ordinance, the owner or their successors, must operate the development as a restricted affordable property for individuals with disabilities. It also requires operation and compliance with the tenant selection plan, so those would carry forward. Any owner or successor that is in violation of these issues would be in violation of the ordinance and subject to the enforcement procedures. Without the approval of this or subsequent Boards, it remains affordable housing. The Board has the authority to change the use in the future.

Trustee Dunnington said she supports this project. She asked about the northeast corner of the property where the Village and Full Circle are going to work together as to exactly where the fence will be. She was looking for some clarification on how the property will be managed. Therese Thompson, Landscape Architect with Corrigan Clark, said the area is going to be an easement to the Village for a future potential turn-around at the end of Emerson. It will not be landscaped as it will ultimately be changed. Full Circle will maintain it, it won't be overgrown.

Trustee Grasse said this process has been about figuring out what's best for this property, the Village, and the neighbors. From the parliamentary standpoint she's a believer that it is proper for comments to be germane to the motion. Any particular criticism of the parties involved is unacceptable. She disagrees with how this new petitioner has been represented. She said the process has been messy, it's been challenging, difficult, and sometimes that's how it works. This messiness has actually worked, and something better has come forward. It took all of us as a community working together through the messiness of it to find a way to compromise. Everybody had to give up something. She said she is in favor of the project as it fulfills the need for affordable housing, fills an empty space and it fits better in the community.

The following resident spoke in support of the project:

Hugh Brady, Jean Wood, Gabriel Nagy, Brian Harrison, Joyce Bieritz, John Geier, Martin Klos, Patricia Crusius, Bill Manganaro, Daniel Crusius, Lorri Grainawi, Christina Crusius, Susi Piasecki, Arlen Gould, Cleo Nykol, Sue Loellbach, and Carina Santa Maria. These speakers highlighted the need for this kind of housing in the area.

Mr. Klos and Mr. Harrison said reducing the number parking spaces would cause problems as many residents have visitors and service providers who will need those spaces.

The following residents spoke against the project: Celina Micko, Linda Dustin, and Matthew P., and Mayur Shah. These speakers reiterated that this was the wrong location for this project and would be detrimental to their residences and their quality of life.

Greg Zyck said a similar development was built in his neighborhood. Residents had many of the same concerns as those near Full Circle. He said none of the worries came to pass, and that property values continued to increase.

Trustee Bertucci said he was very appreciative of where the developer took this and he was proud of the residents who pushed the Board into requesting revisions. He said he would vote yes. He asked Mr. Recklaus to make sure that we that everybody keeps their commitments, both the Village and the developer. He wants staff to ensure there are no backdoor deals where residents of the building accept money to allow folks to spend the night who do not belong. If we get wind of that, we will take action. Staff has is cleaning up the motels who were not adhering to our policies and he's proud of that. He is glad we have protections.

A. Ordinance Approving Amendment to Comprehensive Plan for Full Circle Communities - 1519-1625 S. Arlington Heights Rd.

Trustee Dunnington moved to Approve 2025-03, an Ordinance Approving an Amendment to the Comprehensive Plan for Full Circle Communities for those certain properties commonly known as 1519-1625 S. Arlington Heights Road for the Offices Only classification to the Institutional classification. Trustee LaBedz Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Tinaglia

Nays: Trustee Shirley

Absent: Trustee Baldino

B. Resolution Approving Preliminary Plat of Subdivision for Full Circle Communities - 1519-1625 S. Arlington Heights Rd.

Trustee LaBedz moved to Approve R2025-15, a Resolution approving a Preliminary Plat of Subdivision for Full Circle Communities to consolidate the property and reconfigure the lot lines to create a single lot of those certain properties commonly known as 1519-1625 S. Arlington Heights Road subject to the following condition:

-Pursuant to and in accordance with section 29-204 of the Village code, the adoption of this Resolution authorizes the owner to submit a final plat of subdivision for the property to the Board of Trustees. The Final Plat of Subdivision must be submitted for review and approval by the Village no later than 12 months after the effective date of this Resolution, or such extended date as may be approved by the Board of Trustees. Trustee Grasse Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Tinaglia

Nays: Trustee Shirley

Absent: Trustee Baldino

C. Ordinance Approving Rezoning for Full Circle Communities - 1519-1625 S. Arlington Heights Rd.

Trustee LaBedz moved to Approve 2025-04, an Ordinance approving Rezoning for Full Circle communities, for those certain properties known as 1519-1625 S. Arlington Heights Road from the O-T Office Transitional District to the I, Institutional District. Trustee Dunnington Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Tinaglia

Nays: Trustee Shirley
Absent: Trustee Baldino

D. Ordinance Approving a Planned Unit Development for Full Circle Communities - 1519-1625 S. Arlington Heights Rd.

Trustee Schwingbeck moved to approve 2025-05, an Ordinance Approving a Planned Unit Development for Full Circle Communities - 1519 – 1625 S. Arlington Heights Road (PC #23-007) ;

Subject to including the following conditions:

1. A Final Plat of Subdivision approval shall be required.
2. Impact fees must be paid in accordance with, and as required by, Chapter 29 of the Municipal Code of Arlington Heights, Illinois, 1995, as amended ("*Village Code*").
3. The petitioner shall have 24 months from Village Board adoption of an ordinance granting PUD approval to commence construction as required by Village Code. If construction does not commence within 24 months of PUD approval, or a request for extension is not received and approved, then all ordinances approving this development shall become null and void and the zoning shall revert back to its original O-T District classification and the Comprehensive Plan designation shall revert back to 'Offices Only'.
4. All units within the development shall be restricted so that they remain in perpetuity as an affordable housing development for individuals with disabilities and meet all Housing and Urban Development defined income levels.
5. The petitioner is responsible to ensure that the Planned Unit Development is and remains in full compliance with the requirements of Article XVII of Chapter 7 of Village Code, being the Village's Inclusionary Housing Ordinance, and the Village's Inclusionary Housing Guidelines, including, without limitations, the following:
 1. Providing, at a minimum, 3 actual on-site units (a minimum of 10% of the total units) in perpetuity in the Planned Development in compliance with Section 7-1707(b)(3) of the Village Code.
 2. Ensuring compliance with all other provisions of the Inclusionary Housing Ordinance and the Inclusionary Housing Guidelines, as applicable, with exception to the Inclusionary Housing Guideline that requires preference be given to Arlington Heights residents and people who are employees of Arlington Heights businesses or organizations.
6. The building permit application for the Proposed Development must include a detailed final construction schedule and logistics plan, that identifies staging areas, material storage, lane closures, construction worker parking, truck parking, and truck access, for review, modification, and approval by the Village.
7. Any construction work for the Proposed Development occurring within any public right-of-way must be scheduled and performed in a manner to minimize disruption to other businesses, residential neighbors, and patrons of area. Construction traffic must be limited to pre-approved lanes and locations approved by the Village.
8. Emergency access must be maintained at all times during each construction phase.
9. The subject property shall be operated in substantial compliance with the draft Tenant Selection Plan dated as revised 2/2021 (subject to IHDA final approval), as well as the draft Grace Terrace House Rules dated as revised 10/31/23. Maximum occupancy, as outlined in the Tenant Selection Plan, shall be restricted to no more than two occupants per bedroom.

10. The Owner must provide the following on-site staffing for the Proposed Development:
 - a. No less than one property manager must be present no less than 35 hours per week. While the property manager will typically be present during business hours, the scheduling and timing can change to provide flexibility to work evening and weekend hours based on resident needs.
 - b. Maintenance staff, in a quantity adequate to maintain the Proposed Development and provides services to residents. The Owner must also provide adequate staff to operate a 24-hour maintenance call service.
 - c. Case workers and service providers must be available to provide services to residents of the Proposed Development not less than 40 hours per week. Prior to issuance by the Village of a certificate of occupancy for the Proposed Development, the Owner must provide estimates for the minimum case workers and service provider hours for Village approval.
 - d. The Owner must submit a written report to the Village, as requested by the Village, but not more than once in any 12-month period, identifying the type and quantity of staff the Owner provided at the Proposed Development in the preceding 12-month period. The Village will determine, based on the written report, whether the Owner provided sufficient staff to meet the needs of the Proposed Development.
11. The perimeter fence on the Property must be painted in a neutral, earth-tone color. Prior to Village approval of the Final Plat, the Owner must work with the Village to determine an appropriate location for the perimeter fence on the northern and northeastern sides of the Property.
12. Prior to issuance of a building permit for the building portion of the Proposed Development, or a later date approved by the Village, the Owners must diligently pursue and obtain permits from the Illinois Department of Transportation for vehicular access to the Proposed Development along Arlington Heights Road.
13. Prior to Village approval of the Final Plat, the Owner must enter into a reimbursement agreement with the Village, for payment by the Owner of its proportional share of the public improvements necessary for the construction of a cul-de-sac at the terminus of Emerson Avenue abutting the Property to the east, as determined by the Village.
14. The Owner is required to create a cross-access easement as part of the Final Plat for vehicular and pedestrian access, between the property and the property adjacent to and located immediately north of the Property, commonly known as 1505 and 1501 S. Arlington Heights Road ("*Adjacent Property*"), subject to Village approval ("*Cross-Access Easement*"). The Cross-Access Easement must substantially conform with the Site Plan's depiction of the cross-access easement at the north of the Property. The Owner must provide physical improvements on the portion of the Cross-Access Easement located on the Property at the time the property to the north develops, subject to Village approval.

Trustee LaBedz Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Tinaglia

Nays: Trustee Shirley

Absent: Trustee Baldino

- G. Resolution Approving Balancing Change Order No. 2 for 2023 Downtown Brick Sidewalk Replacement- Wing Street

Trustee Grasse said she pulled this item off the Consent Agenda to highlight the work the Village was doing. Mr. Recklaus said this item is part of the Downtown Sidewalk Replacement program. The Village is working to make the sidewalks ADA compliant. Replacement of the sidewalks and the brick pavers is a long term project. Sections are replaced as they fail. The new paver system being used should last longer and be easier to maintain. Mr. Papierniak said selecting this paver system was a combined effort between Planning, Engineering and Public Works. The new installations are more easily repaired and maintained.

Trustee LaBedz noted there are some broken pavers within a newer section on Vail at Northwest Highway. She expressed concern regarding their longevity. She speculated that the fuel trucks which drive over them to support the gas station may be to blame.

Trustee Tinaglia noted there is a fine line between aesthetics and function. He suggested high traffic locations or areas that take more weight could be addressed differently.

Trustee Bertucci noted the curbs are tricky on Vail at this location and many drivers don't know where the cut outs are on Vail. He said people have witnessed cars getting stuck on the curbs there. Mr. Papierniak said his team would look at the curbs and the pavers and seek a solution. The project began in 2013 and the Village continues to rehab sections. Downtown has 25,000 square feet of pavers and has redone 6,000 of them to date.

Mr. Recklaus said this is an ongoing project. We are approaching it over time, trying to do it right and within budget.

Trustee Grasse moved to Approve R2025-12. Trustee Tinaglia Seconded the Motion.
The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Shirley, Trustee Tinaglia

Nays: None

Absent: Trustee Baldino

XI. ADJOURNMENT

Persons with disabilities requiring auxiliary aids or services, such as an American Sign Language interpreter or written materials in accessible formats, should contact the Health and Human Services Department at 33 S. Arlington Heights Road, Arlington Heights, IL 60005; healthmail@vah.com or 847/368-5760.

Trustee LaBedz moved to Adjourn at 9:50 p.m.. Trustee Schwingbeck Seconded the Motion.

The Motion: Passed

Ayes: President Hayes, Trustee Bertucci, Trustee Dunnington, Trustee Grasse, Trustee LaBedz, Trustee Schwingbeck, Trustee Shirley, Trustee Tinaglia

Absent: Trustee Baldino

-Becky Hume, Village Clerk



**VILLAGE OF ARLINGTON
HEIGHTS
WARRANT REGISTER FOR
CHECK DATE: 1/30/2025**

Fund	Fund Description	Total Transaction Amount
101	GENERAL FUND	\$370,459.99
211	MOTOR FUEL TAX FUND	\$246,042.04
215	CDBG FUND	\$22,024.82
225	ZERO INTEREST LOAN FUND	\$5.11
227	FOREIGN FIRE INS TAX FUND	\$889.95
231	CRIMINAL INVESTIGATION FD	\$269.44
235	MUNICIPAL PARKG OPR FUND	\$115,434.33
264	TIF V	\$250.00
301	DEBT SERVICE FUND	\$318.00
401	CAPITAL PROJECTS FUND	\$283,236.64
426	STORM WATER CONTROL FUND	\$7,027.50
505	WATER AND SEWER FUND	\$1,653,061.33
506	LEAD SERVICE LINE REPL FUND	\$2,549.84
511	SOLID WASTE FUND SWANCC	\$117,555.00
515	ARTS ENTERT & EVENTS FUND	\$103,068.23
605	HEALTH INSURANCE FUND	\$593,476.05
611	GENERAL LIABILITY INS FND	\$379,238.00
615	WORKERS COMPENSATION INS	\$1,573,599.96
621	FLEET OPERATIONS FUND	\$558,446.84
625	TECHNOLOGY FUND	\$59,685.23
715	GUARANTY DEPOSITS FUND	\$2,300.00
TOTAL ALL FUNDS		\$6,088,938.30

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
NON DEPARTMENTAL					
310483	101-0000-489850-	MERCHANTS CREDIT GUIDE CO	COLLECTION FEES	\$35.00	\$35.00
310511	101-0000-433140-	UNITED HEALTHCARE INSURANCE COMPANY	AMBULANCE REFUND	\$94.65	\$94.65
310512	715-0000-220930-	Marton Premier Homes LLC	BOND REFUND-REC-008730-2025	\$200.00	\$1,700.00
310512	715-0000-220930-	Marton Premier Homes LLC	BOND REFUND-REC-008730-2025	\$500.00	
310512	715-0000-220930-	Marton Premier Homes LLC	BOND REFUND-REC-008730-2025	\$500.00	
310512	715-0000-220930-	Marton Premier Homes LLC	BOND REFUND-REC-008730-2025	\$500.00	
310513	715-0000-220930-	PATRICIA CARDENAS	REC-001485-2024	\$200.00	\$200.00
310514	715-0000-220930-	Rabine Paving, LLC	BOND REFUND-REC-008729-2025	\$200.00	\$200.00
310515	715-0000-220930-	Xclusive Concrete	BOND REFUND-REC-008728-2025	\$200.00	\$200.00
310517	505-0000-120250-	ARADO, JOHN	WATER REFUND	\$99.01	\$99.01
310518	505-0000-120250-	TERRAMERE PLAZA	UB 62648 4204 ARLINGTON HEIGHTS	\$1,363.52	\$6,708.14
310518	505-0000-120250-	TERRAMERE PLAZA	UB 62648 4204 ARLINGTON HEIGHTS	\$5,344.62	
802459	101-0000-210950-	RTA/CTA BENEFIT PROGRAM	EMPLOYEE RTA BENEFIT PROGRAM	\$609.25	\$609.25
902491	101-0000-210940-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	\$6,246.87	\$6,246.87

Department 0000

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					(\$92,859.11)
902494	605-0000-471230-	BLUE CROSS BLUE SHIELD OF ILLINOIS	MEDICAL/DENTAL 12/16-12/31/24	(\$92,859.11)	
					\$9,792.50
902496	101-0000-210940-	EMPLOYEE BENEFITS CORP	2024 HEALTH/DEPENDENT CARE FSA	\$790.00	
902496	101-0000-210940-	EMPLOYEE BENEFITS CORP	2024 HEALTH/DEPENDENT CARE FSA	\$9,002.50	
					\$9,753.41
902497	101-0000-210940-	EMPLOYEE BENEFITS CORP	2025 HEALTH/DEPENDENT CARE FSA	\$96.15	
902497	101-0000-210940-	EMPLOYEE BENEFITS CORP	2025 HEALTH/DEPENDENT CARE FSA	\$9,657.26	
					\$205.42
902500	101-0000-210820-	SONTIQ	ID PROTECTION DEC 2024	\$205.42	
					\$1,365.00
902501	101-0000-211070-	METLIFE LEGAL PLANS, INC	METLIFE LEGAL	\$156.00	
902501	101-0000-211070-	METLIFE LEGAL PLANS, INC	METLIFE LEGAL	\$1,209.00	
					\$5,728.63
902505	101-0000-210940-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	\$5,728.63	
					\$11,266.34
9024911	101-0000-210940-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	\$5,134.04	
9024911	101-0000-210940-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	\$6,132.30	
			DEPARTMENT 0000 TOTAL:	(\$38,654.89)	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
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Department 0101

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
BOARD OF TRUSTEES ADMIN					
310413	101-0101-521650-	CAPTION FIRST INC	CAPTIONING SERVICES	\$318.00	\$318.00
DEPARTMENT 0101 TOTAL:				\$318.00	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
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Department 0201

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
INTEGRATED SERVICES ADMIN					
					\$207.63
	101-0201-522030-	PEGGY KINNANE'S LLC	MEETING EXPENSES	\$54.35	
	101-0201-522030-	EGG HARBOR	MEETING EXPENSES	\$48.56	
	101-0201-522700-	APPLE STORE	ICLOUD STORAGE	\$0.99	
	101-0201-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$51.80	
	101-0201-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$51.93	
					\$10,000.00
310477	401-0201-520050-	MAC STRATEGIES GROUP INC	PROFESSIONAL SERVICES	\$10,000.00	
					\$55.76
310510	101-0201-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$55.76	
					\$24,900.00
310525	101-0201-520050-	POLCO	PROFESSIONAL SERVICES	\$24,900.00	
					\$96.00
310532	101-0201-522020-	ROTARY CLUB OF ARLINGTON HTS	DUES	\$96.00	
					\$34,754.17
902511	101-0201-520100-	ELROD FRIEDMAN LLP	DEC 2024 LEGAL SERVICES	\$34,754.17	
			DEPARTMENT 0201 TOTAL:	\$70,013.56	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
HUMAN RESOURCES ADMIN					
					\$3,263.98
	101-0301-520050-	CONSENSUS CLOUD SOLUTIONS	OFFICE EQUIPMENT	\$49.99	
	101-0301-522010-	IL MUNICIPAL LEAGUE	ADVERTISING	\$35.00	
	101-0301-522010-	IL MUNICIPAL LEAGUE	ADVERTISING	\$35.00	
	101-0301-522010-	AMERICAN SOCIETY ON AGING	ADVERTISING	\$249.00	
	101-0301-522010-	LINKEDIN CORPORATION	SUBSCRIPTION	\$169.99	
	101-0301-522030-	IL SHRM	TRAVEL & TRAINING	\$575.00	
	101-0301-540700-	BRUNCH CAFE	EVENT SUPPLIES	\$1,962.50	
	615-0301-520500-	U.S. DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS SUPPLIES	\$187.50	
					\$133.84
310390	101-0301-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$11.95	
310390	101-0301-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$121.89	
					\$30.62
310412	101-0301-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	\$30.62	
					\$3,560.00
310422	101-0301-520200-	CLARK BAIRD SMITH LLP	PROFESSIONAL SERVICES	\$3,560.00	
					\$67,247.46
310458	615-0301-542810-	INTERGOVERNMENTAL RISK MGMT AGENCY	DECEMBER 2024 IRMA	\$67,247.46	
					\$5,020.00
310504	605-0301-520500-	NORTHWEST COMMUNITY HOSPITAL	FIRE DEPARTMENT PHYSICALS	\$2,284.00	
310504	605-0301-520500-	NORTHWEST COMMUNITY HOSPITAL	NEW HIRE TESTING	\$396.00	
310504	605-0301-520500-	NORTHWEST COMMUNITY HOSPITAL	POLICE DEPARTMENT PHYSICALS	\$1,558.00	
310504	605-0301-520500-	NORTHWEST COMMUNITY HOSPITAL	PW PHYSICALS	\$782.00	
					\$143.55

Department 0301

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310523	101-0301-540700-	PETTY CASH	EVENT SUPPLIES	\$63.55	
310523	615-0301-520500-	PETTY CASH	EVENT SERVICES	\$80.00	
					\$121,445.22
902493	605-0301-520550-	BLUE CROSS BLUE SHIELD OF ILLINOIS	ADMIN FEES	\$121,445.22	\$541,054.09
902494	605-0301-542750-	BLUE CROSS BLUE SHIELD OF ILLINOIS	MEDICAL/DENTAL 12/16-12/31/24	\$517,833.69	
902494	605-0301-542770-	BLUE CROSS BLUE SHIELD OF ILLINOIS	MEDICAL/DENTAL 12/16-12/31/24	\$23,220.40	
					\$1,506,085.00
902495	615-0301-520700-	INTERGOVERNMENTAL RISK MGMT AGENCY	2025 CONTRIBUTION	\$1,506,085.00	\$3,187.10
902498	605-0301-520650-	DEARBORN LIFE INS CO	JAN 2025 BASIC LIFE	\$3,187.10	
					\$3,257.75
902499	605-0301-520650-	DEARBORN LIFE INS CO	FEB 2025 BASIC LIFE	\$3,257.75	\$11,644.88
902503	605-0301-520450-	BENISTAR/HARTFORD - 6795	RETIREE HEALTH INSURANCE	\$306.85	
902503	605-0301-542750-	BENISTAR/HARTFORD - 6795	RETIREE HEALTH INSURANCE	\$11,338.03	
					\$726.12
902504	605-0301-520440-	EMPLOYEE BENEFITS CORP	FSA FEES	\$60.00	
902504	605-0301-520440-	EMPLOYEE BENEFITS CORP	FSA FEES	\$666.12	
DEPARTMENT 0301 TOTAL:				\$2,266,799.61	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
FINANCE ADMIN					
					\$885.99
	101-0501-521650-	GOVERNMENT FINANCE OFFICERS ASSOC	DUES	\$575.00	
	101-0501-522020-	INTL INSTITUTE OF MUNICIPAL CLERKS	DUES	\$260.00	
	101-0501-522700-	APPLE STORE	CLOUD STORAGE	\$0.99	
	101-0501-530010-	THE MORNING PULSE	SUBSCRIPTION	\$50.00	
					\$61.42
310414	101-0501-530050-	CDW GOVERNMENT INC	OFFICE SUPPLIES	\$61.42	
					\$152.99
310416	101-0501-530010-	CHICAGO TRIBUNE	SUBSCRIPTION	\$152.99	
					\$867.00
310458	611-0501-542610-	INTERGOVERNMENTAL RISK MGMT AGENCY	DECEMBER 2024 IRMA	\$242.00	
310458	611-0501-542610-	INTERGOVERNMENTAL RISK MGMT AGENCY	DECEMBER 2024 IRMA	\$625.00	
					\$587.00
310469	101-0501-522020-	JUAREZ, MARY	DUES	\$230.00	
310469	101-0501-522020-	JUAREZ, MARY	DUES	\$357.00	
					\$1,850.00
310471	611-0501-542600-	LEGALSOLVED LLC	SETTLEMENT	\$1,850.00	
					\$239.96
310510	101-0501-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$239.96	
					\$56.05
310523	101-0501-530050-	PETTY CASH	KITCHEN SUPPLIES	\$13.99	
310523	101-0501-530050-	PETTY CASH	KITCHEN SUPPLIES	\$42.06	
					\$706.35

Department 0501

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310534	101-0501-530250-	RYDIN SIGN & DECAL	LICENSING SUPPLIES	\$706.35	
					\$1,184.65
310536	505-0501-522100-	SEBIS DIRECT INC	PRINTING SERVICES	\$1,184.65	
					\$4,907.00
902490	505-0501-522050-	SEBIS DIRECT INC	POSTAGE REPLENISHMENT	\$4,907.00	
					\$376,521.00
902495	611-0501-520700-	INTERGOVERNMENTAL RISK MGMT AGENCY	2025 CONTRIBUTION	\$376,521.00	
			DEPARTMENT 0501 TOTAL:	\$388,019.41	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
INFORMATION TECHNOLOGY ADMIN					
					\$1,274.82
	625-0601-521020-	DELL MARKETING LP	OFFICE EQUIPMENT	\$284.10	
	625-0601-521655-	SIMPLEMDM	OFFICE EQUIPMENT	\$126.00	
	625-0601-521655-	JOTFORM, INC	OFFICE EQUIPMENT	\$64.50	
	625-0601-521655-	CLOUDFLARE	OFFICE EQUIPMENT	\$25.00	
	625-0601-522030-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$63.96	
	625-0601-522030-	MAGO RESTAURANT	MEETING SUPPLIES	\$250.88	
	625-0601-522030-	CBT NUGGETS LLC	TRAVEL & TRAINING	\$59.00	
	625-0601-522030-	UWM TRANSPORTATION SERVICES	TRAVEL & TRAINING	\$8.00	
	625-0601-522700-	RCN	INTERNET CHARGES	\$65.99	
	625-0601-522700-	RCN	INTERNET CHARGES	\$65.99	
	625-0601-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$12.49	
	625-0601-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$35.98	
	625-0601-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$17.94	
	625-0601-550100-	UBIQUITI INC	OFFICE EQUIPMENT	\$26.00	
	625-0601-550100-	BEST BUY BUSINESS ADVANTAGE	OFFICE EQUIPMENT	\$168.99	
					\$70.41
310390	625-0601-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$23.95	
310390	625-0601-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$46.46	
					\$18,249.00
310411	625-0601-521655-	CADD MICROSYSTEMS, INC.	OFFICE EQUIPMENT	\$18,249.00	
					\$17,325.00
310420	625-0601-521655-	CIVICPLUS LLC	OFFICE EQUIPMENT	\$17,325.00	
					\$8,066.00
310554	625-0601-520390-	TYLER TECHNOLOGIES INC	COMPUTERSDP & WORD PROC.	(\$740.00)	

Department 0601

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310554	625-0601-550100-	TYLER TECHNOLOGIES INC	COMPUTERSDP & WORD PROC.	\$2,516.00	\$14,700.00
310554	625-0601-550100-	TYLER TECHNOLOGIES INC	COMPUTERSDP & WORD PROC.	\$6,290.00	
310562	625-0601-550100-	VELOSIMO, INC	OFFICE EQUIPMENT	\$14,700.00	
DEPARTMENT 0601 TOTAL:				\$59,685.23	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
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Department 1008

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
BOARDS & COMM FIRE & POL COMM					
310542	101-1008-520750-	STEPHEN LASER & ASSOCIATES	PROFESSIONAL SERVICES	\$2,400.00	\$2,400.00
DEPARTMENT 1008 TOTAL:				\$2,400.00	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
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Department 1018

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
BOARDS & COMM SPECIAL EVENTS					
					\$0.00
	101-1018-540550-	EVENTBRITE-EB	HEARTS OF GOLD TICKET	\$49.87	
	101-1018-540550-	EVENTBRITE-EB	HEARTS OF GOLD TICKET REFUND	(\$49.87)	
					\$1,916.00
310464	101-1018-540550-	JIM COLEMAN LTD	HEARTS OF GOLD SUPPLIES	\$1,916.00	
					\$300.00
310475	101-1018-540550-	XAVIER LIPANI	HEARTS OF GOLD SERVICES	\$300.00	
			DEPARTMENT 1018 TOTAL:	\$2,216.00	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
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Department 2005

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
SPECIAL EVENTS METROPOLIS THTR					
					\$6,724.19
	515-2005-550550-	BED BATH & BEYOND	METROPOLIS SUPPLIES	(\$58.91)	
	515-2005-550550-	BED BATH & BEYOND	METROPOLIS SUPPLIES	\$648.10	
	515-2005-550550-	ABT ELECTRONICS	METROPOLIS EQUIPMENT	\$2,341.00	
	515-2005-550550-	POWERTECH GROUP OF CHICAGO	METROPOLIS EQUIPMENT	\$1,800.00	
	515-2005-550550-	POWERTECH GROUP OF CHICAGO	METROPOLIS EQUIPMENT	\$1,994.00	
					\$73,380.00
310485	515-2005-540810-	METROPOLIS PERFORMING ARTS CENTRE	2025 OPERATING CONTRIBUTION INSTALLMENT 1 OF 4	\$71,250.00	
310485	515-2005-550550-	METROPOLIS PERFORMING ARTS CENTRE	METROPOLIS EQUIPMENT REIMBURSEMENT	\$2,130.00	
					\$18,540.00
310526	515-2005-550550-	POULOS PAINTING	SERVICE BUILDING MAINTENANCE	\$18,540.00	
					\$4,350.06
310546	515-2005-550550-	SUNBELT RENTALS, INC.	EQUIPMENT MAINTENANCE	\$4,558.53	
310546	515-2005-550550-	SUNBELT RENTALS, INC.	TAX REFUND	(\$208.47)	
DEPARTMENT 2005 TOTAL:				\$102,994.25	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
POLICE DEPT ADMIN					
					\$3,437.00
	101-3001-521655-	SPOKEO	OFFICE EQUIPMENT	\$44.85	
	101-3001-522030-	REAGAN NATIONAL AIRPORT	TRAVEL & TRAINING	(\$114.00)	
	101-3001-522030-	BP	TRAVEL & TRAINING	\$39.16	
	101-3001-522030-	SPEEDWAY LLC	TRAVEL & TRAINING	\$40.51	
	101-3001-522030-	EXXON MOBIL CORPORATION	TRAVEL & TRAINING	\$50.20	
	101-3001-522030-	SUNOCO LP	TRAVEL & TRAINING	\$66.22	
	101-3001-522030-	DOGSPORT GEAR USA INC.	K9 SUPPLIES	\$30.94	
	101-3001-522030-	HILTON HOTEL	TRAVEL & TRAINING	\$142.21	
	101-3001-522030-	MARRIOTT	TRAVEL & TRAINING	\$310.50	
	101-3001-522700-	COMCAST CABLE	DATA MONTHLY FEES	\$115.50	
	101-3001-522700-	COMCAST CABLE	DATA MONTHLY FEES	\$115.50	
	101-3001-530010-	CHICAGO TRIBUNE-SUB BILLING	SUBSCRIPTION	\$14.00	
	101-3001-530050-	GRAINGER W W INC	POLICE EQUIPMENT & SUPPLIES	\$314.00	
	101-3001-530350-	5.11 TACTICAL	CLOTHING & APPAREL	\$120.00	
	101-3001-533250-	CHOICE SPORTSCARDS	K9 SUPPLIES	\$285.95	
	101-3001-533250-	NINOS PIZZERIA & CATERING	MEETING SUPPLIES	\$202.02	
	101-3001-533250-	TRAFFIC SAFETY WAREHOUSE	POLICE EQUIPMENT & SUPPLIES	\$161.45	
	101-3001-533250-	SAMS CLUB	POLICE EQUIPMENT & SUPPLIES	\$1,497.99	
					\$64.90
310383	101-3001-530050-	A & E RUBBER STAMP CORP	OFFICE SUPPLIES	\$64.90	
					\$1,614.59
310390	101-3001-522030-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$276.00	
310390	101-3001-522150-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$351.24	
310390	101-3001-522700-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$894.79	

Department 3001

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310390	101-3001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$9.99	
310390	101-3001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$24.99	
310390	101-3001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$26.41	
310390	101-3001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$31.17	
					\$18,000.00
310409	101-3001-521651-	BRIGHTSIDE CLINIC	CARE GRANT	\$4,000.00	
310409	101-3001-521651-	BRIGHTSIDE CLINIC	CARE GRANT	\$6,625.00	
310409	101-3001-521651-	BRIGHTSIDE CLINIC	CARE GRANT	\$7,375.00	
					\$38.39
310412	101-3001-521020-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	\$38.39	
					\$720.00
310429	101-3001-522700-	COVERTTRACK GROUP, INC.	OFFICE EQUIPMENT	\$720.00	
					\$181.00
310430	101-3001-533050-	CROWN TROPHY	MISCELLANEOUS SUPPLIES	\$96.00	
310430	101-3001-533050-	CROWN TROPHY	POLICE EQUIPMENT & SUPPLY	\$85.00	
					\$449.00
310433	101-3001-521655-	DATA COM SOFTWARE SOLUTIONS	OFFICE EQUIPMENT	\$449.00	
					\$4,170.00
310441	101-3001-520150-	ERNEST R BLOMQUIST PC	PROFESSIONAL SERVICES	\$4,170.00	
					\$50.00
310443	101-3001-522700-	EXPERIAN	MISCELLANEOUS SERVICES	\$50.00	
					\$170.00
310446	101-3001-530350-	FLENTGE, ANDREW	REIMBURSEMENT	\$170.00	
					\$2,059.45
310450	101-3001-533050-	GOLF ROSE PET LODGE	VETERINARY SERVICES	\$68.95	
310450	101-3001-533050-	GOLF ROSE PET LODGE	VETERINARY SERVICES	\$123.00	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310450	101-3001-533050-	GOLF ROSE PET LODGE	VETERINARY SERVICES	\$152.50	
310450	101-3001-533050-	GOLF ROSE PET LODGE	VETERINARY SERVICES	\$1,715.00	
					\$583.00
310455	101-3001-522700-	IDI	MISCELLANEOUS SERVICES	\$125.00	
310455	101-3001-522700-	IDI	MISCELLANEOUS SERVICES	\$458.00	
					\$1,485.24
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGEREMENT	\$13.97	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$1.61	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$2.57	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$3.75	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$4.18	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$6.49	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$7.11	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$7.95	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$8.43	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$9.44	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$9.78	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$9.78	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$10.80	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$11.00	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$11.00	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$11.00	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$11.00	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$11.15	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$11.15	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$13.67	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$15.14	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$22.09	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$23.56	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$24.89	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$24.90	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$25.43	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$25.43	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$25.85	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$29.80	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$46.82	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$51.71	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$71.38	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$72.95	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$76.97	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$77.23	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$77.27	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$77.69	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$86.09	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$88.77	
310470	101-3001-521020-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$142.31	
310470	101-3001-522150-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$93.04	
310470	101-3001-522150-	KONICA MINOLTA BUSINESS USA	MAINTENANCE AGREEMENT	\$130.09	
					\$1,680.00
310473	101-3001-521020-	LIFE FITNESS	EQUIPMENT MAINTENANCE	\$1,680.00	
					\$302.10
310476	101-3001-533250-	LOWES COMMERCIAL SERVICES	MISCELLANEOUS SUPPLIES	\$302.10	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					\$67.97
310481	101-3001-530050-	MATTS ACE HARDWARE	POLICE EQUIPMENT & SUPPLY	\$19.99	
310481	101-3001-530050-	MATTS ACE HARDWARE	POLICE EQUIPMENT & SUPPLY	\$47.98	
					\$447.29
310494	101-3001-533300-	MORTON SUGGESTION COMPANY	MISCELLANEOUS SUPPLIES	\$447.29	
					\$400.00
310499	101-3001-522020-	NORTH SUBURBAN ASSOC CHF POLICE	DUES	\$400.00	
					\$49,030.65
310503	101-3001-520370-	NORTHWEST CENTRAL DISPATCH SYS	MEMBER ASSESSMENT	\$49,030.65	
					\$2,200.00
310509	101-3001-522030-	NORTHWESTERN UNIVERSITY	TRAVEL & TRAINING	\$1,100.00	
310509	101-3001-522030-	NORTHWESTERN UNIVERSITY	TRAVEL & TRAINING	\$1,100.00	
					\$440.57
310510	101-3001-522150-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$71.82	
310510	101-3001-522150-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$326.16	
310510	101-3001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$42.59	
					\$1,732.50
310524	101-3001-522020-	PETTY CASH/POLICE	TRAVEL & TRAINING	\$60.00	
310524	101-3001-522030-	PETTY CASH/POLICE	VEHICLE RENTAL	\$1,672.50	
					\$199.96
310527	101-3001-530050-	PSP STORES LLC	K9 SUPPLIES	\$199.96	
					\$96.00
310532	101-3001-522020-	ROTARY CLUB OF ARLINGTON HTS	DUES	\$96.00	
					\$96.00
310545	101-3001-522100-	SUMMIT PRINT SOLUTIONS	PRINTING SERVICES	\$96.00	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					\$200.00
310548	101-3001-522700-	T MOBILE USA INC	MISCELLANEOUS SERVICES	\$50.00	
310548	101-3001-522700-	T MOBILE USA INC	MISCELLANEOUS SERVICES	\$50.00	
310548	101-3001-522700-	T MOBILE USA INC	MISCELLANEOUS SERVICES	\$100.00	
DEPARTMENT 3001 TOTAL:				\$89,915.61	

VILLAGE OF ARLINGTON HEIGHTS
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Department 3003

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
POLICE DEPT CRIMINAL INVEST					
					\$101.00
	231-3003-540010-	E-COLLAR TECHNOLOGIES	K9 EQUIPMENT	\$101.00	
					\$168.44
310522	231-3003-540010-	PET PROS	K9 SUPPLIES	\$168.44	
			DEPARTMENT 3003 TOTAL:	\$269.44	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
FIRE ADMIN					
					\$6,964.81
	101-3501-521650-	INTL CODE COUNCIL INC	OFFICE EQUIPMENT	\$91.55	
	101-3501-522030-	ELEVATED SAFETY	TRAVEL & TRAINING	\$1,300.00	
	101-3501-522030-	ELEVATED SAFETY	TRAVEL & TRAINING	\$1,300.00	
	101-3501-522030-	SPEEDWAY LLC	TRAVEL & TRAINING	\$35.76	
	101-3501-522030-	LOVE'S TRAVEL STOPS	TRAVEL & TRAINING	\$57.45	
	101-3501-522030-	PILOT FLYING J	TRAVEL & TRAINING	\$30.01	
	101-3501-522030-	MARATHON	TRAVEL & TRAINING	\$40.00	
	101-3501-522030-	BP	TRAVEL & TRAINING	\$63.00	
	101-3501-522050-	FEDEX	SHIPPING FEES	\$184.00	
	101-3501-522100-	LYNN CARD COMPANY	PRINTING SERVICES	\$79.95	
	101-3501-531650-	STICKERCUTTING	EQUIPMENT MAINTENANCE	\$525.00	
	101-3501-533050-	QUALITY LOGO PRODUCTS	PUBLIC EDUCATION SUPPLIES	\$564.59	
	101-3501-533450-	IDENTITY LINKS	COMMUNITY RISK REDUCTION SUPPLIES	\$993.50	
	101-3501-533500-	AMERICAN HEART ASSOCIATION	CPR CLASS SUPPLIES	\$1,700.00	
					\$441.00
310387	401-3501-550150-	AIR ONE EQUIPMENT	CLOTHING & APPAREL	\$441.00	
					(\$368.77)
310390	101-3501-521160-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	(\$229.50)	
310390	101-3501-521160-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	(\$164.95)	
310390	101-3501-521160-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	(\$47.12)	
310390	101-3501-521160-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	(\$45.90)	
310390	101-3501-521160-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	(\$42.88)	
310390	101-3501-521160-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	(\$42.88)	

Department 3501

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310390	101-3501-522030-	AMAZON COM CAPITAL SERVICES	EMPLOYEE EVENT SUPPLIES	\$91.29	
310390	101-3501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$13.23	
310390	101-3501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$33.96	
310390	101-3501-533450-	AMAZON COM CAPITAL SERVICES	EVENT SUPPLIES	\$65.98	
					\$1,124.00
310408	101-3501-533500-	BOUND TREE MEDICAL LLC	MEDICAL SUPPLIES	\$1,124.00	
					\$800.00
310457	101-3501-522020-	IL FIRE CHIEFS ASSOC	MEMBERSHIP DUES	\$800.00	
					\$1,300.00
310500	101-3501-522030-	NORTHEASTERN IL PUBLIC SAFETY	TRAVEL & TRAINING	\$650.00	
310500	101-3501-522030-	NORTHEASTERN IL PUBLIC SAFETY	TRAVEL & TRAINING	\$650.00	
					\$16,343.55
310503	101-3501-520370-	NORTHWEST CENTRAL DISPATCH SYS	MEMBER ASSESSMENT	\$16,343.55	
					\$11,610.00
310505	101-3501-521160-	NORTHWEST COMMUNITY HOSP	TRAVEL & TRAINING	\$11,610.00	
					\$279.00
310543	101-3501-521160-	STRYKER SALES CORP	MEDICAL EQUIPMENT PARTS	\$279.00	
					\$3,697.20
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$49.95	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$52.95	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$56.95	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$74.95	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$74.95	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$79.90	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$84.95	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$119.85	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$119.95	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$124.90	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$149.25	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$149.90	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$157.90	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$169.90	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$169.90	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$208.75	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$244.80	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$250.80	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$272.80	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$378.70	
310551	101-3501-530350-	TODAY'S UNIFORMS	CLOTHING & APPAREL	\$705.20	
					\$29.32
310570	101-3501-531850-	WS DARLEY & CO	FIRE EQUIPMENT & SUPPLY	(\$1,060.00)	
310570	101-3501-531850-	WS DARLEY & CO	SMALL TOOLS	\$1,089.32	
DEPARTMENT 3501 TOTAL:				\$42,220.11	

VILLAGE OF ARLINGTON HEIGHTS
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Department 3701

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
FOREIGN FIRE INSURANCE ADMIN					
310452	227-3701-522030-	HANSELMAN, CURT	TUITION REIMBURSEMENT	\$889.95	\$889.95
DEPARTMENT 3701 TOTAL:				\$889.95	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
PLANNING PLANNING					
					\$1,141.06
	101-4001-522020-	AMERICAN INST OF ARCHITECTS	DUES	\$792.00	
	101-4001-530050-	DELL MARKETING LP	OFFICE EQUIPMENT	\$167.03	
	101-4001-530050-	DELL MARKETING LP	OFFICE EQUIPMENT	\$167.03	
	101-4001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$9.89	
	225-4001-540430-	COOK COUNTY CLERK	WARRANTY DEED	\$5.11	
					\$2,250.00
310406	101-4001-540400-	BISNOW LLC	ADVERTISING	\$2,250.00	
					\$12.14
310412	101-4001-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	\$12.14	
					\$537.06
310414	101-4001-530050-	CDW GOVERNMENT INC	OFFICE EQUIPMENT	\$537.06	
					\$14,291.42
310428	101-4001-540400-	COSTAR REALTY INFORMATION INC	SUBSCRIPTION	\$14,291.42	
					\$864.70
310432	101-4001-522010-	DAILY HERALD	ADVERTISING	\$864.70	
					\$500.00
310445	264-4001-550300-	FLECKS LANDSCAPING	LANDSCAPING SERVICES	\$250.00	
310445	401-4001-550300-	FLECKS LANDSCAPING	LANDSCAPING SERVICES	\$250.00	
					\$192.00
310472	101-4001-521650-	LEGRAND REPORTING & VIDEO SERVICES	TRANSCRIBING SERVICES	\$192.00	
					\$30.14
310510	101-4001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$30.14	
					\$655.00

Department 4001

VILLAGE OF ARLINGTON HEIGHTS
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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310552	101-4001-540410-	TOWN SQUARE PUBLICATIONS LLC	ADVERTISING	\$655.00	
DEPARTMENT 4001 TOTAL:				\$20,473.52	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
COMMUNITY DEVL BLK GRNTADMIN					
					\$1,250.00
310417	215-4101-541170-	CHILDREN'S ADVOCACY CENTER	CDBG GRANT	\$375.00	
310417	215-4101-541170-	CHILDREN'S ADVOCACY CENTER	CDBG GRANT	\$875.00	
					\$4,675.21
310424	215-4101-541620-	CONNECTIONS TO CARE	CDBG GRANT	\$488.86	
310424	215-4101-541620-	CONNECTIONS TO CARE	CDBG GRANT	\$675.21	
310424	215-4101-541620-	CONNECTIONS TO CARE	CDBG GRANT	\$3,511.14	
					\$875.00
310444	215-4101-541700-	FAMILYFORWARD	CDBG GRANT	\$125.00	
310444	215-4101-541700-	FAMILYFORWARD	CDBG GRANT	\$750.00	
					\$9,300.00
310467	215-4101-541480-	JOURNEYS THE ROAD HOME	CDBG GRANT	\$4,300.00	
310467	215-4101-541480-	JOURNEYS THE ROAD HOME	CDBG GRANT	\$5,000.00	
					\$1,250.00
310474	215-4101-541730-	LIFE SPAN	CDBG GRANT	\$375.00	
310474	215-4101-541730-	LIFE SPAN	CDBG GRANT	\$875.00	
					\$1,250.00
310502	215-4101-541680-	NORTHWEST CASA	CDBG GRANT	\$375.00	
310502	215-4101-541680-	NORTHWEST CASA	CDBG GRANT	\$875.00	
					\$1,121.73
310506	215-4101-541790-	NORTHWEST COMPASS INC	CDBG GRANT	\$31.79	
310506	215-4101-541790-	NORTHWEST COMPASS INC	CDBG GRANT	\$1,089.94	
					\$2,302.88
310544	215-4101-541440-	SUBURBAN PRIMARY HEALTH CARE	CDBG GRANT	\$321.32	
310544	215-4101-541440-	SUBURBAN PRIMARY HEALTH CARE	CDBG GRANT	\$1,981.56	

Department 4101

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
			DEPARTMENT 4101 TOTAL:	\$22,024.82	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
BUILDING ADMIN					
					\$3,702.53
	101-4501-522020-	SURVEY MONKEY	OFFICE EQUIPMENT	\$900.00	
	101-4501-522020-	INTL CODE COUNCIL INC	DUES	\$110.00	
	101-4501-522020-	INTL CODE COUNCIL INC	DUES	\$100.00	
	101-4501-522030-	BGR TECHNICAL PUBLICATIONS	TRAVEL & TRAINING	\$86.99	
	101-4501-522030-	INTL CODE COUNCIL INC	TRAVEL & TRAINING	\$1,098.00	
	101-4501-522030-	INTL CODE COUNCIL INC	TRAVEL & TRAINING	\$229.00	
	101-4501-522030-	INTL CODE COUNCIL INC	TRAVEL & TRAINING	\$720.00	
	101-4501-522030-	UDEMY, INC	TRAVEL & TRAINING	\$69.98	
	101-4501-522030-	BUILDING CODE MASTER	TRAVEL & TRAINING	\$179.00	
	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$72.10	
	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$20.94	
	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$23.50	
	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$13.92	
	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$63.92	
	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$15.18	
					\$21.31
310412	101-4501-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	\$21.31	
					\$2.79
310481	101-4501-533050-	MATTS ACE HARDWARE	OFFICE SUPPLIES	\$2.79	
					\$195.86
310510	101-4501-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$195.86	
					\$244.82
310538	101-4501-533050-	SHU BEE	MISCELLANEOUS SUPPLIES	\$244.82	
					\$1,030.00

Department 4501

VILLAGE OF ARLINGTON HEIGHTS
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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310550	101-4501-520050-	THOMPSON ELEVATOR INSPECTION	PROFESSIONAL SERVICES	\$35.00	
310550	101-4501-520050-	THOMPSON ELEVATOR INSPECTION	PROFESSIONAL SERVICES	\$35.00	
310550	101-4501-520050-	THOMPSON ELEVATOR INSPECTION	PROFESSIONAL SERVICES	\$35.00	
310550	101-4501-520050-	THOMPSON ELEVATOR INSPECTION	PROFESSIONAL SERVICES	\$925.00	
DEPARTMENT 4501 TOTAL:				\$5,197.31	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
HEALTH ADMIN					
					\$3,694.44
	101-7001-521650-	INTERFAX	NURSING FAX OCTOBER	\$9.95	
	101-7001-530050-	PORTILLOS HOT DOGS	MEETING SUPPLIES	\$332.57	
	101-7001-530050-	CANVA.COM	OFFICE SUPPLIES	\$50.00	
	101-7001-540530-	MIDWEST ORTHOPAEDICS	EMERGENCY SERVICES	\$325.00	
	101-7001-540530-	MOTEL 6 ARLINGTON HTS #1048	EMERGENCY SERVICES	\$50.00	
	101-7001-540530-	MOTEL 6 ARLINGTON HTS #1048	EMERGENCY SERVICES	\$66.08	
	101-7001-540530-	MOTEL 6 ARLINGTON HTS #1048	EMERGENCY SERVICES	\$66.08	
	101-7001-540530-	HOLIDAY INN	EMERGENCY SERVICES	\$142.15	
	101-7001-540530-	HOLIDAY INN	EMERGENCY SERVICES	\$124.96	
	101-7001-540530-	MOTEL 6 ARLINGTON HTS #1048	EMERGENCY SERVICES	(\$50.00)	
	101-7001-540570-	WALGREENS	EVENT SUPPLIES	\$245.77	
	101-7001-540570-	SUBURBAN STUDIOS ARLIGTON HEIGHTS	EMERGENCY SERVICES	\$126.20	
	101-7001-540570-	HOLIDAY INN	EMERGENCY SERVICES	\$307.24	
	101-7001-540570-	HOLIDAY INN	EMERGENCY SERVICES	\$795.60	
	101-7001-540570-	HOLIDAY INN	EMERGENCY SERVICES	\$795.60	
	101-7001-540570-	HOLIDAY INN	EMERGENCY SERVICES	\$307.24	
					\$23.07
310390	101-7001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$5.59	
310390	101-7001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$17.48	
					\$220.00
310427	101-7001-521100-	CORELOGIC SOLUTIONS LLC	OFFICE EQUIPMENT	\$220.00	
					\$347.34
310431	101-7001-521655-	CUSTOM DATA PROCESSING	OFFICE EQUIPMENT	\$347.34	

Department 7001

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					\$311.52
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	(\$119.37)	
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$10.39	
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$47.97	
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$61.24	
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$80.38	
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$87.59	
310510	101-7001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$143.32	
DEPARTMENT 7001 TOTAL:				\$4,596.37	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
HEALTH SENIOR SERVICES					
					\$842.18
	101-7007-521650-	VOLGISTICS INC	OFFICE EQUIPMENT	\$61.00	
	101-7007-530050-	WALGREEN COMPANY	OFFICE SUPPLIES	\$29.20	
	101-7007-531650-	AMAZON COM CAPITAL SERVICES	CAFE SUPPLIES	\$3.94	
	101-7007-531650-	AMAZON COM CAPITAL SERVICES	CAFE SUPPLIES	\$45.49	
	101-7007-540160-	AMAZON COM CAPITAL SERVICES	PROGRAM SUPPLIES	\$28.92	
	101-7007-540160-	AMAZON COM CAPITAL SERVICES	PROGRAM SUPPLIES	\$9.99	
	101-7007-540160-	AMAZON COM CAPITAL SERVICES	PROGRAM SUPPLIES	\$52.59	
	101-7007-540160-	ORIENTAL TRADING CO INC	PROGRAM SUPPLIES	\$89.98	
	101-7007-540160-	AMAZON COM CAPITAL SERVICES	PROGRAM SUPPLIES	\$107.57	
	101-7007-540160-	MEIJER'S	PROGRAM SUPPLIES	\$63.33	
	101-7007-540160-	SAMS CLUB	PROGRAM SUPPLIES	\$33.68	
	101-7007-540160-	TORTORICE'S PIZZERIA	PROGRAM SUPPLIES	\$206.60	
	101-7007-540160-	JEWEL OSCO 3422	PROGRAM SUPPLIES	\$119.88	
	101-7007-540160-	AMAZON COM CAPITAL SERVICES	PROGRAM SUPPLIES	(\$9.99)	
					\$110.00
310391	101-7007-522400-	AMERICAN TAXI	TAXI SUBSIDY	\$110.00	
					\$225.00
310468	101-7007-540160-	JOYCE E HAWORTH	PROGRAM INSTRUCTIONAL FEES	\$225.00	
					\$250.00
310569	101-7007-540160-	WPM PRODUCTIONS, INC.	PROGRAM INSTRUCTIONAL FEES	\$250.00	
DEPARTMENT 7007 TOTAL:				\$1,427.18	

Department 7007

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
PUBLIC WORKS ADMIN					
					\$4,620.59
	101-7101-522020-	IL ARBORIST ASSOCIATION	DUES	\$190.00	
	101-7101-522020-	IL ARBORIST ASSOCIATION	DUES	\$230.00	
	101-7101-522020-	AMERICAN SOCIETY OF CIVIL ENGINEERS	DUES	\$306.00	
	101-7101-522030-	APWA ILLINOIS PUBLIC SERVICE	TRAVEL & TRAINING	\$25.00	
	101-7101-522030-	APWA ILLINOIS PUBLIC SERVICE	TRAVEL & TRAINING	\$25.00	
	101-7101-522030-	APWA ILLINOIS PUBLIC SERVICE	TRAVEL & TRAINING	\$25.00	
	101-7101-522030-	APWA ILLINOIS PUBLIC SERVICE	TRAVEL & TRAINING	\$195.00	
	101-7101-522030-	UNIV OF WISCONSIN	TRAVEL & TRAINING	\$1,095.00	
	101-7101-522030-	UNIV OF WISCONSIN	TRAVEL & TRAINING	\$1,095.00	
	101-7101-522030-	AMAZON COM CAPITAL SERVICES	TRAVEL & TRAINING	\$46.20	
	101-7101-522030-	CONCOURSE HOTEL	TRAVEL & TRAINING	\$401.00	
	101-7101-531650-	SAMS CLUB	EVENT SUPPLIES	\$35.95	
	101-7101-531650-	SAMS CLUB	EVENT SUPPLIES	\$90.55	
	101-7101-531650-	GORDON FOOD SERVICE	EVENT SUPPLIES	\$111.68	
	101-7101-531650-	CITY BBQ	EVENT SUPPLIES	\$749.21	
					\$1,422.00
310384	401-7101-550150-	ABT ELECTRONICS	EQUIPMENT	\$1,422.00	
					\$245.00
310385	101-7101-522020-	ACTIVE TRANSPORTATION ALLIANCE	MEMBERSHIP DUES	\$245.00	
					\$50.00
310388	101-7101-531550-	AIR PRODUCTS EQUIPMENT COMPANY	BUILDING MAINTENANCE SUPPLY	\$50.00	
					\$1,082.21
310390	101-7101-531550-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$39.56	

Department 7101

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310390	101-7101-531550-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$135.97	
310390	101-7101-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$29.38	
310390	101-7101-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$317.44	
310390	101-7101-531650-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$9.99	
310390	101-7101-531650-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$18.24	
310390	101-7101-531650-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$91.21	
310390	101-7101-531750-	AMAZON COM CAPITAL SERVICES	STREET SUPPLIES	\$110.32	
310390	101-7101-531850-	AMAZON COM CAPITAL SERVICES	SMALL TOOLS AND EQUIPMENT	\$28.12	
310390	401-7101-550200-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$228.00	
310390	515-7101-533050-	AMAZON COM CAPITAL SERVICES	HARMONY FEST SUPPLIES	\$73.98	
					\$285.00
310393	101-7101-521020-	AQUALAB WATER TREATMENT INC	EQUIPMENT MAINTENANCE	\$285.00	\$933.62
310395	101-7101-522700-	AT & T	ACCT 84725535058159	\$933.62	
					\$1,204.60
310396	101-7101-522700-	AT & T	ACCT 84759060006156	\$1,204.60	\$2,038.75
310397	101-7101-522700-	AT & T	ACCT 84725331203952	\$2,038.75	
					\$42,500.00
310400	101-7101-521655-	AZTECA SYSTEMS, LLC	OFFICE EQUIPMENT	\$42,500.00	\$446.98
310405	401-7101-550150-	BERLANDS HOUSE OF TOOLS	EQUIPMENT	\$446.98	
					\$1,604.00
310407	101-7101-531550-	BORNQUIST, INC	BUILDING MAINTENANCE SUPPLY	\$625.00	
310407	101-7101-531550-	BORNQUIST, INC	BUILDING MAINTENANCE SUPPLY	\$979.00	
					\$4,498.20

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310414	401-7101-550150-	CDW GOVERNMENT INC	EQUIPMENT	\$4,498.20	
					\$106.00
310415	101-7101-522030-	CHARLES HOMUTH	TRAVEL AND TRAINING	\$106.00	
					\$14,082.65
310418	401-7101-550300-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	\$7,055.15	
310418	426-7101-550250-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	\$2,772.50	
310418	426-7101-550250-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	\$4,255.00	
					\$8,300.47
310421	401-7101-550300-	CIVILTECH ENGINEERING INC	PROFESSIONAL SERVICES	\$3,358.99	
310421	401-7101-550300-	CIVILTECH ENGINEERING INC	PROFESSIONAL SERVICES	\$4,941.48	
					\$384.65
310425	101-7101-531900-	CONSERV FS INC	STREET SUPPLY	\$384.65	
					\$13,424.29
310426	211-7101-550400-	COOK COUNTY DEPT TRANSPORTATION	COOK COUNTY TRAFFIC SIGNAL MAINTENANCE	\$6,561.31	
310426	211-7101-550400-	COOK COUNTY DEPT TRANSPORTATION	COOK COUNTY TRAFFIC SIGNAL MAINTENANCE	\$6,862.98	
					\$43.75
310447	101-7101-522700-	FORERUNNER TECHNOLOGIES, INC	PHONE SERVICES	\$43.75	
					\$1,016.20
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY COMPANY	EQUIPMENT MAINTENANCE	\$65.00	
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY COMPANY	EQUIPMENT MAINTENANCE	\$101.65	
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY COMPANY	EQUIPMENT MAINTENANCE	\$110.10	
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY COMPANY	EQUIPMENT MAINTENANCE	\$110.10	
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY COMPANY	EQUIPMENT MAINTENANCE	\$113.20	
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY	EQUIPMENT MAINTENANCE	\$119.40	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
		COMPANY			
310449	101-7101-521020-	FOX VALLEY FIRE & SAFETY COMPANY	EQUIPMENT MAINTENANCE	\$396.75	
					\$967.24
310451	101-7101-530350-	GRAINGER W W INC	CLOTHING & APPAREL	\$886.16	
310451	101-7101-531550-	GRAINGER W W INC	BUILDING MAINTENANCE SUPPLY	\$15.12	
310451	101-7101-531550-	GRAINGER W W INC	BUILDING MAINTENANCE SUPPLY	\$65.96	
					\$22.04
310454	101-7101-530050-	HR DIRECT	OFFICE SUPPLIES	\$22.04	
					\$585.00
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$60.00	
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$60.00	
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$65.00	
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$88.00	
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$88.00	
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$104.00	
310460	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	\$120.00	
					\$70.71
310462	101-7101-531550-	JC LICHT	BUILDING MAINTENANCE SUPPLY	\$70.71	
					\$3,232.57
310473	101-7101-531650-	LIFE FITNESS	FITNESS ROOM EQUIPMENT	\$3,232.57	
					\$760.12
310476	101-7101-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$33.24	
310476	101-7101-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$50.32	
310476	101-7101-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$56.14	
310476	101-7101-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$74.47	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310476	101-7101-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$85.93	
310476	101-7101-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$212.51	
310476	101-7101-531650-	LOWES COMMERCIAL SERVICES	MISCELLANEOUS SUPPLIES	\$23.73	
310476	101-7101-531650-	LOWES COMMERCIAL SERVICES	MISCELLANEOUS SUPPLIES	\$149.80	
310476	101-7101-531800-	LOWES COMMERCIAL SERVICES	STREET SIGN SUPPLIES	\$28.44	
310476	101-7101-531800-	LOWES COMMERCIAL SERVICES	STREET SIGN SUPPLIES	\$30.36	
310476	101-7101-531850-	LOWES COMMERCIAL SERVICES	SMALL TOOLS AND EQUIPMENT	\$15.18	
					\$150.44
310479	101-7101-530350-	MARK DYKAS	REIMBURSEMENT	\$150.44	
					\$14.99
310481	101-7101-531550-	MATTS ACE HARDWARE	BUILDING MAINTENANCE SUPPLY	\$14.99	
					\$1,156.02
310484	101-7101-521110-	METRO DOOR AND DOCK	SERVICE BUILDING MAINTENANCE	\$557.25	
310484	101-7101-521110-	METRO DOOR AND DOCK	SERVICE BUILDING MAINTENANCE	\$598.77	
					\$613.11
310487	101-7101-531850-	MICHAEL WAGNER & SONS	SMALL TOOLS AND EQUIPMENT	\$613.11	
					\$400.56
310488	101-7101-521650-	MICROSYSTEMS	MISCELLANEOUS SERVICES	\$400.56	
					\$73,472.00
310489	235-7101-550250-	MID AMERICAN ELEVATOR CO INC	SERVICE BUILDING MAINTENANCE	\$73,472.00	
					\$1,439.98
310492	101-7101-520050-	MIOVISION TECHNOLOGIES	PROFESSIONAL SERVICES	\$1,439.98	
					\$1,825.07
310497	101-7101-521500-	NICOR	ACCT 01701843946	\$1,825.07	
					\$1,825.07
310498	101-7101-521500-	NICOR	ACCT 01701843946	\$1,825.07	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					\$3,000.00
310500	101-7101-522020-	NORTHEASTERN IL PUBLIC SAFETY	ANNUAL DUES	\$3,000.00	
					\$1,703.78
310507	101-7101-531550-	NORTHWEST ELECTRICAL SUPPLY CO	BUILDING MAINTENANCE SUPPLY	\$384.62	
310507	101-7101-531550-	NORTHWEST ELECTRICAL SUPPLY CO	BUILDING MAINTENANCE SUPPLY	\$656.71	
310507	101-7101-531550-	NORTHWEST ELECTRICAL SUPPLY CO	BUILDING MAINTENANCE SUPPLY	\$662.45	
					\$9.20
310510	101-7101-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$9.20	
					\$853.42
310520	101-7101-522030-	PAPIERNIAK, CRIS	TRAVEL AND TRAINING	\$853.42	
					\$49.74
310523	101-7101-522020-	PETTY CASH	DUES	\$25.00	
310523	101-7101-531650-	PETTY CASH	EVENT SUPPLIES	\$24.74	
					\$330.00
310528	101-7101-522700-	PTS COMMUNICATIONS INC	PHONE SERVICES	\$75.00	
310528	101-7101-522700-	PTS COMMUNICATIONS INC	PHONE SERVICES	\$75.00	
310528	101-7101-522700-	PTS COMMUNICATIONS INC	PHONE SERVICES	\$180.00	
					\$750.95
310530	101-7101-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$152.99	
310530	101-7101-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$200.00	
310530	101-7101-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$397.96	
					\$1,144.59
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$68.00	
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$99.48	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$100.21	
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$148.56	
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$214.99	
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$227.38	
310531	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	\$285.97	
					\$29.49
310537	101-7101-531550-	SHERWIN WILLIAMS PAINT CO #3408	BUILDING MAINTENANCE SUPPLY	\$29.49	\$72.73
310539	101-7101-522700-	SOUND INCORPORATED	PHONE SERVICES	\$72.73	\$392.48
310541	101-7101-531550-	STANDARD PIPE & SUPPLY INC	BUILDING MAINTENANCE SUPPLY	\$166.76	
310541	101-7101-531550-	STANDARD PIPE & SUPPLY INC	BUILDING MAINTENANCE SUPPLY	\$225.72	\$106.00
310547	101-7101-522030-	SWANSON, ADAM	TRAVEL AND TRAINING	\$106.00	\$239,754.00
310563	401-7101-550200-	VERDE SOLUTIONS LLC	PW SOLAR PANEL INSTALLATION	\$239,754.00	\$126.44
310564	101-7101-522700-	VERIZON WIRELESS	ACCT 64202486400001	\$126.44	\$35,000.00
310565	235-7101-550250-	WALKER PARKING CONSULTANTS	PROFESSIONAL SERVICES	\$35,000.00	\$375.00
310568	101-7101-522700-	WILSON CONSULTING	PROFESSIONAL SERVICES	\$375.00	\$431.78
310572	101-7101-531650-	ZORO TOOLS INC	MISCELLANEOUS SUPPLIES	\$164.48	
310572	101-7101-531850-	ZORO TOOLS INC	SMALL TOOLS AND EQUIPMENT	\$267.30	\$594.48

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
802456	101-7101-522700-	AT & T	ACCT 84725961248940	\$58.72	
802456	101-7101-522700-	AT & T	ACCT 84757754536603	\$88.57	
802456	101-7101-522700-	AT & T	ACCT 84743978686650	\$117.46	
802456	101-7101-522700-	AT & T	ACCT 84757757951551	\$329.73	
					\$9,131.73
802457	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 3895240100	\$12.24	
802457	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 1483465000	\$87.98	
802457	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 7397572000	\$541.10	
802457	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 8017024000	\$583.71	
802457	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 4410867000	\$7,906.70	
					\$243,458.59
902506	211-7101-550400-	BUILDERS PAVING LLC	VBA - 6/18/2024	\$232,617.75	
902506	401-7101-550300-	BUILDERS PAVING LLC	VBA - 6/18/2024	\$10,840.84	
DEPARTMENT 7101 TOTAL:				\$722,138.28	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
WATER AND SEWER ADMIN					
					\$1,328.37
	505-7201-521650-	APPLE STORE	DATA PLAN	\$0.99	
	505-7201-522030-	WWETT	TRAVEL & TRAINING	\$340.00	
	505-7201-531650-	SAMS CLUB	EVENT SUPPLIES	\$35.95	
	505-7201-531650-	SAMS CLUB	EVENT SUPPLIES	\$90.55	
	505-7201-531650-	GORDON FOOD SERVICE	EVENT SUPPLIES	\$111.68	
	505-7201-531650-	CITY BBQ	EVENT SUPPLIES	\$749.20	
					\$863.18
310386	505-7201-550100-	AEGIS CONTAINER; PLASTIFOAM	OFFICE SUPPLY	\$863.18	
					\$1,515.39
310389	505-7201-531600-	ALEXANDER CHEMICAL CORP	CHEMICALS	\$1,515.39	
					\$799.64
310390	505-7201-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$97.84	
310390	505-7201-530300-	AMAZON COM CAPITAL SERVICES	DATA SYSTEM SUPPLIES	\$35.75	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	EQUIPMENT	\$39.96	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$36.58	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$58.54	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$139.94	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$143.67	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$23.34	
310390	505-7201-531650-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$53.05	
310390	505-7201-550100-	AMAZON COM CAPITAL SERVICES	OFFICE EQUIPMENT	\$170.97	
					\$438.00
310392	505-7201-522020-	AMERICAN WATER WORKS ASSOC	DUES	\$87.00	
310392	505-7201-522020-	AMERICAN WATER WORKS ASSOC	DUES	\$87.00	

Department 7201

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310392	505-7201-522020-	AMERICAN WATER WORKS ASSOC	DUES	\$264.00	
					\$100.00
310399	505-7201-522030-	AWWA ILLINOIS SECTION	TRAVEL & TRAINING	\$25.00	
310399	505-7201-522030-	AWWA ILLINOIS SECTION	TRAVEL & TRAINING	\$50.00	
310399	505-7201-522030-	AWWA ILLINOIS SECTION	TRAVEL & TRAINING	\$25.00	
					\$34,000.00
310400	505-7201-521655-	AZTECA SYSTEMS, LLC	OFFICE EQUIPMENT	\$34,000.00	
					\$799.90
310403	505-7201-531550-	BENJAMIN MOORE MT PROSPECT PAINT	BUILDING MAINTENANCE SUPPLY	\$399.95	
310403	505-7201-531550-	BENJAMIN MOORE MT PROSPECT PAINT	BUILDING MAINTENANCE SUPPLY	\$399.95	
					\$641.86
310404	505-7201-522030-	BERKOWITZ, MATT	TRAVEL AND TRAINING	\$641.86	
					\$517.70
310418	505-7201-521250-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	\$153.90	
310418	505-7201-521250-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	\$209.90	
310418	505-7201-521250-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	\$153.90	
					\$32.16
310423	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 3582102111	\$32.16	
					\$553.53
310434	505-7201-521500-	DIRECT ENERGY BUSINESS MARKETING LLC	ACCT 1806640	\$553.53	
					\$7,073.53
310435	505-7201-521500-	DIRECT ENERGY BUSINESS MARKETING LLC	ACCT 1806639	\$7,073.53	
					\$2,636.16
310436	505-7201-521500-	DIRECT ENERGY BUSINESS MARKETING LLC	ACCT 1806638	\$2,636.16	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310437	505-7201-521500-	DIRECT ENERGY BUSINESS MARKETING LLC	ACCT 1806638	\$2,636.16	\$2,636.16
310438	505-7201-531050-	DREISILKER ELECTRIC MOTORS INC	PUMPING AND STORAGE SUPPLIES	\$175.34	\$175.34
310442	505-7201-531650-	ESSCOE LLC	MISCELLANEOUS SUPPLIES	\$1,652.47	\$1,652.47
310451	505-7201-531850-	GRAINGER W W INC	SMALL TOOLS AND EQUIPMENT	\$34.44	\$34.44
310453	505-7201-521350-	HBK WATER METER SERVICE INC	METER SUPPLY AND SERVICES	\$11,992.24	\$52,282.87
310453	505-7201-521350-	HBK WATER METER SERVICE INC	METER SUPPLY AND SERVICES	\$18,755.59	
310453	505-7201-521350-	HBK WATER METER SERVICE INC	METER SUPPLY AND SERVICES	\$21,535.04	
310462	505-7201-521110-	JC LICHT	SERVICE BUILDING MAINTENANCE	\$35.07	\$308.93
310462	505-7201-521110-	JC LICHT	SERVICE BUILDING MAINTENANCE	\$273.86	
310463	505-7201-521300-	JCK CONTRACTORS	WATER DISTRIBUTION SYSTEM	\$860.00	\$860.00
310465	505-7201-521300-	JOHN NERI CONSTRUCTION COMPANY	CONSTRUCTION SERVICES	\$5,572.66	\$5,572.66
310466	505-7201-550200-	JON-DON INC	BUILDING MAINTENANCE SUPPLY	\$685.94	\$685.94
310473	505-7201-531650-	LIFE FITNESS	FITNESS ROOM EQUIPMENT	\$3,232.58	\$3,232.58
310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$4.73	\$195.61

VILLAGE OF ARLINGTON HEIGHTS

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310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$9.10	
310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$9.66	
310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$17.92	
310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$24.64	
310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$25.25	
310476	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	\$26.55	
310476	505-7201-531850-	LOWES COMMERCIAL SERVICES	SMALL TOOLS AND EQUIPMENT	\$77.76	
					\$127.95
310481	505-7201-521110-	MATTS ACE HARDWARE	SERVICE BUILDING MAINTENANCE	\$36.99	
310481	505-7201-531550-	MATTS ACE HARDWARE	BUILDING MAINTENANCE SUPPLY	\$35.97	
310481	505-7201-531650-	MATTS ACE HARDWARE	MISCELLANEOUS SUPPLIES	\$54.99	
					\$3,772.00
310486	505-7201-550150-	METROPOLITAN INDUSTRIES	EQUIPMENT	\$3,772.00	
					\$4,311.34
310490	505-7201-531010-	MID AMERICAN WATER	WATER SYSTEM SUPPLIES	\$875.37	
310490	505-7201-531010-	MID AMERICAN WATER	WATER SYSTEM SUPPLIES	\$1,109.43	
310490	505-7201-531010-	MID AMERICAN WATER	WATER SYSTEM SUPPLIES	\$2,326.54	
					\$4,369.98
310491	505-7201-531020-	MIDWEST METER INC	WATER SYSTEM SUPPLIES	\$1,994.98	
310491	505-7201-531020-	MIDWEST METER INC	WATER SYSTEM SUPPLIES	\$2,375.00	
					\$2,000.00
310500	505-7201-522020-	NORTHEASTERN IL PUBLIC SAFETY	ANNUAL DUES	\$2,000.00	
					\$1,053.95
310510	505-7201-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$49.57	
310510	505-7201-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$284.79	
310510	505-7201-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$288.10	

VILLAGE OF ARLINGTON HEIGHTS

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310510	505-7201-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	\$431.49	
					\$2,742.76
310519	505-7201-531900-	OZINGA READY MIX CONCRETE INC	STREET SUPPLIES	\$1,104.00	
310519	505-7201-531900-	OZINGA READY MIX CONCRETE INC	STREET SUPPLIES	\$1,638.76	
					\$24.73
310523	505-7201-531650-	PETTY CASH	EVENT SUPPLIES	\$24.73	
					\$1,818.84
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$200.00	
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$200.00	
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$200.00	
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$200.00	
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$200.00	
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$361.49	
310530	505-7201-530350-	RED WING BUSINESS ADVANTAGE ACCT	CLOTHING & APPAREL	\$457.35	
					\$761.86
310535	505-7201-522030-	SCHWEDA, SCOTT	TRAVEL AND TRAINING	\$761.86	
					\$0.00
310537	505-7201-531550-	SHERWIN WILLIAMS PAINT CO #3408	BUILDING MAINTENANCE SUPPLY	(\$32.29)	
310537	505-7201-531550-	SHERWIN WILLIAMS PAINT CO #3408	BUILDING MAINTENANCE SUPPLY	\$32.29	
					\$943.83
310541	505-7201-531020-	STANDARD PIPE & SUPPLY INC	METER SUPPLIES	\$894.34	
310541	505-7201-531550-	STANDARD PIPE & SUPPLY INC	BUILDING MAINTENANCE SUPPLY	\$49.49	
					\$340.00
310549	505-7201-521300-	TAYLOR PLUMBING	WATER DISTRIBUTION SYSTEM	\$340.00	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					\$409.08
310560	505-7201-531600-	USA BLUEBOOK	CHEMICAL SUPPLIES	\$39.06	
310560	505-7201-531600-	USA BLUEBOOK	CHEMICAL SUPPLIES	\$124.02	
310560	505-7201-531600-	USA BLUEBOOK	CHEMICAL SUPPLIES	\$246.00	
					\$3,465.31
310561	505-7201-550150-	VEGA AMERICAS INC	WATER SYSTEM SUPPLIES	\$3,465.31	
					\$2,640.00
310566	505-7201-531010-	WATER PRODUCTS CO	WATER SYSTEM SUPPLIES	\$1,230.00	
310566	505-7201-531010-	WATER PRODUCTS CO	WATER SYSTEM SUPPLIES	\$1,410.00	
					\$431.79
310572	505-7201-531650-	ZORO TOOLS INC	MISCELLANEOUS SUPPLIES	\$164.49	
310572	505-7201-531850-	ZORO TOOLS INC	SMALL TOOLS AND EQUIPMENT	\$267.30	
					\$117.44
802456	505-7201-522700-	AT & T	ACCT 84743746858567	\$58.72	
802456	505-7201-522700-	AT & T	ACCT 84743746842777	\$58.72	
					\$1,389.95
802457	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 0766943000	\$34.19	
802457	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 6652766000	\$71.46	
802457	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 8275568111	\$106.88	
802457	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 7839129000	\$196.26	
802457	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 8556642222	\$981.16	
					\$4,714.10
802458	505-7201-521500-	CONSTELLATION NEW ENERGY INC	ACCT 1050214	\$2,230.74	
802458	505-7201-521500-	CONSTELLATION NEW ENERGY INC	ACCT 1050216	\$2,483.36	

VILLAGE OF ARLINGTON HEIGHTS
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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
902502	505-7201-521530-	NORTHWEST WATER COMMISSION	Q1 2025 MEMBER PAYMENT	\$917,301.20	\$917,301.20
DEPARTMENT 7201 TOTAL:				\$1,071,672.53	

VILLAGE OF ARLINGTON HEIGHTS
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Department 7301

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
PARKING ADMIN					
310439	235-7301-521110-	ECO CLEAN MAINTENANCE INC	JANITORIAL SERVICES	\$419.16	\$419.16
310558	235-7301-521400-	UNION PACIFIC RAILROAD	4TH QUARTER LOT P	\$3,229.58	\$3,229.58
DEPARTMENT 7301 TOTAL:				\$3,648.74	

VILLAGE OF ARLINGTON HEIGHTS
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Department 7302

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
PARKING VAIL ST. GARAGE OPER					
					\$1,327.34
310439	235-7302-521110-	ECO CLEAN MAINTENANCE INC	JANITORIAL SERVICES	\$1,327.34	
DEPARTMENT 7302 TOTAL:				\$1,327.34	

VILLAGE OF ARLINGTON HEIGHTS
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Department 7303

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
PARKING NORTH GARAGE OPER					
310439	235-7303-521110-	ECO CLEAN MAINTENANCE INC	JANITORIAL SERVICES	\$1,327.34	\$1,327.34
8024561	235-7303-521500-	AT & T	ACCT 84763200281737	\$239.75	\$239.75
DEPARTMENT 7303 TOTAL:				\$1,567.09	

VILLAGE OF ARLINGTON HEIGHTS
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Department 7304

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
PARKING EVERGREEN ST GAR OPER					
					\$419.16
310439	235-7304-521110-	ECO CLEAN MAINTENANCE INC	JANITORIAL SERVICES	\$419.16	
DEPARTMENT 7304 TOTAL:				\$419.16	

VILLAGE OF ARLINGTON HEIGHTS
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Department 7401

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
SOLID WASTE DISPSL SWANCCADMIN					
902492	511-7401-521540-	SOLID WASTE AGENCY	FEBRUARY 2025 TIPPING FEES	(\$28,965.00)	\$117,555.00
902492	511-7401-521540-	SOLID WASTE AGENCY	FEBRUARY 2025 TIPPING FEES	\$146,520.00	
DEPARTMENT 7401 TOTAL:				\$117,555.00	

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
MUNICIPAL FLEET SVCS ADMIN					
					\$135.43
	621-7501-521070-	ILLINOIS TOLLWAY	IPASS AUTO REPLENISH	\$40.00	
	621-7501-531500-	BUY PARTS ONLINE	VEH MAINTENANCE SUPPLY	\$46.33	
	621-7501-531650-	ILLINOIS TOLLWAY	TOLLS	\$49.10	
					\$951.63
310390	621-7501-531500-	AMAZON COM CAPITAL SERVICES	VEH MAINTANANCE SUPPLY	\$18.16	
310390	621-7501-531500-	AMAZON COM CAPITAL SERVICES	VEH MAINTENANCE SUPPLY	\$13.79	
310390	621-7501-531500-	AMAZON COM CAPITAL SERVICES	VEH MAINTENANCE SUPPLY	\$148.99	
310390	621-7501-531500-	AMAZON COM CAPITAL SERVICES	VEH MAINTENANCE SUPPLY	\$419.97	
310390	621-7501-531510-	AMAZON COM CAPITAL SERVICES	VEH MAINTENANCE SUPPLY	\$153.37	
310390	621-7501-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$15.92	
310390	621-7501-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	\$79.17	
310390	621-7501-531850-	AMAZON COM CAPITAL SERVICES	EQUIPMENT	\$36.98	
310390	621-7501-531850-	AMAZON COM CAPITAL SERVICES	SMALL TOOLS AND EQUIPMENT	\$49.99	
310390	621-7501-533050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	\$15.29	
					\$207.86
310394	621-7501-531510-	ARLINGTON HTS FORD	VEH MAINTENANCE SUPPLY	(\$10.84)	
310394	621-7501-531510-	ARLINGTON HTS FORD	VEH MAINTENANCE SUPPLY	\$10.84	
310394	621-7501-531510-	ARLINGTON HTS FORD	VEH MAINTENANCE SUPPLY	\$58.53	
310394	621-7501-531510-	ARLINGTON HTS FORD	VEH MAINTENANCE SUPPLY	\$149.33	
					\$1,354.50
310398	621-7501-531510-	AUTO TECH CENTERS INC	VEH MAINTENANCE SUPPLY	\$1,354.50	
					\$8,500.00
310400	621-7501-521020-	AZTECA SYSTEMS, LLC	OFFICE EQUIPMENT	\$8,500.00	
					\$307.50

Department 7501

VILLAGE OF ARLINGTON HEIGHTS

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310401	621-7501-521020-	B & K EQUIPMENT	EQUIPMENT MAINTENANCE	\$307.50	
					\$915.39
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	(\$17.69)	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$26.46	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$54.29	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$55.20	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$76.20	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$131.06	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$172.65	
310410	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	\$417.22	
					\$83.33
310419	621-7501-521360-	CITY WELDING SALES & SERVICE	EQUIPMENT RENTAL	\$83.33	
					\$21.83
310448	621-7501-531510-	FOSTER COACH SALES INC	VEH MAINTENANCE SUPPLY	\$21.83	
					\$200.00
310456	621-7501-522020-	IL FIRE APPARATUS MECHANICS ASSOC	DUES	\$200.00	
					\$0.52
310459	621-7501-531510-	INTERSTATE POWER SYSTEMS	VEH MAINTENANCE SUPPLY	(\$172.50)	
310459	621-7501-531510-	INTERSTATE POWER SYSTEMS	VEH MAINTENANCE SUPPLY	\$173.02	
					\$211.00
310461	621-7501-522030-	JASON MAY	REIMBURSEMENT	\$211.00	
					\$3,716.76
310478	621-7501-531510-	MACQUEEN EMERGENCY GROUP	VEH MAINTENANCE SUPPLY	\$62.83	
310478	621-7501-531510-	MACQUEEN EMERGENCY GROUP	VEH MAINTENANCE SUPPLY	\$89.11	
310478	621-7501-531510-	MACQUEEN EMERGENCY GROUP	VEH MAINTENANCE SUPPLY	\$915.82	

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310478	621-7501-531510-	MACQUEEN EMERGENCY GROUP	VEH MAINTENANCE SUPPLY	\$2,649.00	
					\$738.00
310480	621-7501-521020-	MASTER HYDRAULICS & MACHINE CO	EQUIPMENT MAINTENANCE	\$738.00	
					\$43.48
310482	621-7501-531510-	MC CANN INDUSTRIES	VEH MAINTENANCE SUPPLY	\$43.48	
					\$235.00
310493	621-7501-531510-	MORTON GROVE AUTOMOTIVE WEST	VEH MAINTENANCE SUPPLY	\$235.00	
					\$549.00
310495	621-7501-522020-	NAFA FLEET MGMT ASSOC	DUES	\$549.00	
					\$1,696.63
310496	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	\$29.25	
310496	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	\$87.75	
310496	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	\$208.46	
310496	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	\$383.35	
310496	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	\$393.40	
310496	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	\$594.42	
					\$4,397.55
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$262.30	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$313.10	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$390.90	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$408.80	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$431.85	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$469.65	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$633.30	
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$651.15	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310501	621-7501-521070-	NORTHWEST AUTO WASH	CAR WASH	\$836.50	
					\$213.99
310508	621-7501-531510-	NORTHWEST FREIGHTLINER	VEH MAINTENANCE SUPPLY	\$213.99	
					\$147.66
310521	621-7501-531510-	PATLIN INC	VEH MAINTENANCE SUPPLY	\$147.66	
					\$24.75
310529	621-7501-521070-	RACEWAY CAR WASH	VEH EQUIPMENT MAINTENANCE	\$24.75	
					\$24.90
310533	621-7501-531510-	RUSH TRUCK CENTER-CAROL STREAM	VEH MAINTENANCE SUPPLY	\$24.90	
					\$2,405.46
310540	621-7501-521070-	STANDARD EQUIPMENT CO	VEH EQUIPMENT MAINTENANCE	\$1,158.06	
310540	621-7501-521070-	STANDARD EQUIPMENT CO	VEH EQUIPMENT MAINTENANCE	\$1,247.40	
					\$241.68
310553	621-7501-521070-	TRANS CHICAGO TRUCK GROUP	VEH EQUIPMENT MAINTENANCE	\$241.68	
					\$210.03
310555	621-7501-531510-	ULTRA STROBE COMMUNICATIONS INC	VEH MAINTENANCE SUPPLY	\$210.03	
					\$137.64
310557	621-7501-530350-	UNIFIRST CORPORATION	CLOTHING & APPAREL	\$68.82	
310557	621-7501-530350-	UNIFIRST CORPORATION	CLOTHING & APPAREL	\$68.82	
					\$147.28
310559	621-7501-531510-	US AUTOFORCE	VEH MAINTENANCE SUPPLY	\$147.28	
					\$1,102.00
310567	621-7501-521070-	WENTWORTH TIRE SERVICE	VEH EQUIPMENT MAINTENANCE	\$1,102.00	
					\$267.98
310571	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLIES	\$170.89	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

CHECK DATE: 1/30/2025

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
310571	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	\$180.59	
310571	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	(\$50.00)	
310571	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	(\$50.00)	
310571	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	\$16.50	
					\$1,426.06
310572	621-7501-530050-	ZORO TOOLS INC	OFFICE SUPPLIES	\$141.21	
310572	621-7501-531510-	ZORO TOOLS INC	VEH MAINTENANCE SUPPLY	(\$36.95)	
310572	621-7501-531510-	ZORO TOOLS INC	VEH MAINTENANCE SUPPLY	\$254.33	
310572	621-7501-531510-	ZORO TOOLS INC	VEH MAINTENANCE SUPPLY	\$350.95	
310572	621-7501-531510-	ZORO TOOLS INC	VEH MAINTENANCE SUPPLY	\$358.26	
310572	621-7501-531510-	ZORO TOOLS INC	VEH MAINTENANCE SUPPLY	\$358.26	
DEPARTMENT 7501 TOTAL:				\$30,614.84	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 1/30/2025

Department 9001

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
CAPITAL ADMIN					
310390	506-9001-550250-	AMAZON COM CAPITAL SERVICES	LEAD LINE EQUIPMENT	\$49.84	\$49.84
310402	505-9001-550250-	BAXTER & WOODMAN	PROFESSIONAL SERVICES	\$290.00	\$290.00
310491	505-9001-550250-	MIDWEST METER INC	RESIDENTIAL WATER METER PROGRAM	\$252,500.00	\$568,200.00
310491	505-9001-550250-	MIDWEST METER INC	RESIDENTIAL WATER METER PROGRAM	\$315,700.00	
310516	506-9001-550250-	ONE TIME LEAD LINE REIMBURSEMENT	LEAD LINE REIMBURSEMENT	\$2,500.00	\$2,500.00
DEPARTMENT 9001 TOTAL:				\$571,039.84	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 1/30/2025

Department 9003

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
CAPITAL EQUIPMENT					
310440	621-9003-550050-	EJ EQUIPMENT INCORPORATED	SEWER EQUIPMENT	\$527,832.00	\$527,832.00
DEPARTMENT 9003 TOTAL:				\$527,832.00	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 1/30/2025

Department 9555

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
DEBT SVC POLICE STATION 2016					
310556	301-9555-560200-	UMB BANK NA	AGENT FEES	\$318.00	\$318.00
DEPARTMENT 9555 TOTAL:				\$318.00	
WARRANT TOTAL:				\$6,088,938.30	



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Swearing in of Newly Promoted Fire Department Personnel
Department: Integrated Services

Item Description:

ATTACHMENTS:

None



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Bond Waiver - Arlington Heights Memorial Library

Department: Building & Life Safety

Item Description:

The Arlington Heights Memorial Library Foundation is requesting a waiver of the bond requirement for their raffle that will take place during their second International Women's Day Event. The raffle will take place March 7, 2025 at Makerplace, 112 Belmont Avenue. Tickets will be sold the day of the event from 7pm to 9pm, with the winner being determined at 9pm.

Value of Prizes - up to \$100.00

It is recommended that the Village Board grant a waiver of the bond requirement as requested by the Arlington Heights Memorial Foundation.

ATTACHMENTS:

1. LTR ARL HTS MEMORIAL FOUNDATION

ARLINGTON HEIGHTS MEMORIAL LIBRARY
FOUNDATION



January 13, 2025

Renee Schwingbeck
AHML Foundation, Director
506 E. Orchard St.
Arlington Heights, IL. 60005

Village of Arlington Heights
Department of Building & Life Safety
33 S. Arlington Heights Rd.
Arlington Heights, IL. 60005

Letter requesting Waiver of Bond

To Whom It May Concern:

This letter is a request to waive the bond required for a raffle license. On Friday, March 7, 2025, the Arlington Heights Memorial Library (AHML) Foundation will proudly present its second International Women's Day Event. This special occasion aims to unite local residents for an inspiring evening focused on community well-being and self-care while raising vital funds for the Arlington Heights Memorial Library. The event will occur from 7:00 to 9:00 PM at the Makerplace, 112 North Belmont Avenue in Arlington Heights. This building is owned by the AHML Library and the event is being co-hosted with the Arlington Heights Memorial Library. We are planning on a maximum of 100 attendees.

We will be holding a raffle drawing during the evening to raise additional funds. We are in the process of collecting donations for raffle prizes. The value of the prizes on average will be under \$100.

Thank you for considering our request. Your support is vital in helping us ensure that the Arlington Heights Memorial Library remains an exceptional resource for the community. Together, we can make a significant impact!

Warm regards,

Renee Schwingbeck
AHML Development Chair



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Resolution Appointing A Delegate To The Intergovernmental
Risk Management Agency

Department: Finance

Item Description:

Recommendation that the Village Board appoint Melissa Gallagher as the IRMA Board Representative for the Village upon the retirement of Tom Kuehne.

ATTACHMENTS:

1. Arlington Heights Resolution Delegate Melissa (002)

RESOLUTION NO. 2025-_____

**A RESOLUTION APPOINTING A DELEGATE TO THE
INTERGOVERNMENTAL RISK MANAGEMENT AGENCY**

WHEREAS, the Village of Arlington Heights adopted the Contract and By-Laws of the Intergovernmental Risk Management Agency by Ordinance and thereby became a member of said cooperative; and

WHEREAS, said contract provides that member units of local governmental shall, by majority vote of its corporate authorities, select one (1) person to represent that body on the Board of Directors of said Intergovernmental Agency as the Delegate.

NOW, THEREFORE, BE IT RESOLVED by the Village President and Board of Trustees of the Village of Arlington Heights, Cook County, Illinois that Melissa Gallagher, Finance Director of the Village of Arlington Heights is hereby appointed as the Delegate to represent the Village of Arlington Heights on the Board of Directors of said Intergovernmental Risk Management Agency commencing February 4, 2025.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

BE IT FURTHER RESOLVED that the Village Clerk shall serve a certified copy of this Resolution on the Intergovernmental Risk Management Agency.

ADOPTED and APPROVED this 3rdnd day of February, 2025.

APPROVED:

Thomas W. Hayes, Mayor

ATTEST:

Rebecca Hume, Village Clerk

ROLL CALL VOTE:

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____



VILLAGE OF
ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
2/3/2025

Item: Resolution Authorizing the Purchase of Mobile Vehicle Barriers
from Meridian Rapid Defense Group

Department: Police

Item Description:

Background

The Police Department's 5-Year Capital Improvement Plan (CIP) included funding in FY25 for the purchase of mobile vehicle barriers for traffic control, vehicle intrusion mitigation and strategic deployment during pre-planned special events. While the Police Department assisted the Northwest Central Joint Emergency Management System (JEMS) in the acquisition of a limited number of such mobile vehicle barriers under the Cook County Emergency Management and Regional Security (EMRS) Urban Area Security Initiative (UASI) for use as a shared resource, the additional barriers are necessary to ensure sufficient barriers are available to the Village of Arlington Heights community during competing special events and times of increased demand.

The mobile vehicle barriers, through Meridian Rapid Defense Group, LLC. of Pasadena, California, are US Department of Homeland Security SAFETY Act certified devices designed for quick deployment in response to traffic control and hostile vehicle mitigation efforts. The barriers may be strategically deployed during incidents or pre-planned events, providing additional protection against both unintentional and intentional vehicle intrusion in event roadways, entry points and perimeters. The barriers may be deployed in under 10 minutes, allowing easily customizable placement and increased efficiency of pedestrian and emergency vehicle access. Funding for the mobile vehicle barriers was included and approved in the FY25 Budget utilizing federal asset forfeitures. Mobile vehicle barrier pricing from Meridian Rapid Defense Group, LLC has been negotiated, awarded and contracted (#47QSWA19D001F) through the General Services Administration (GSA).

Recommendation

The Police Department recommends the Village Board waive the formal bidding process and approve a resolution authorizing the purchase of (12) Archer 1200 Mobile Barriers and accessories in the amount of \$88,104.44 from Meridian Rapid Defense Group, LLC. Sufficient funding is available in Account No. 231-3003-540110 - Police Equipment (EQ9501).

ATTACHMENTS:

1. RESOLUTION - Meridian Vehicle Barriers (FY25)
2. Quote Meridian Vehicle Barrier (FY25)

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE PURCHASE OF
MOBILE VEHICLE BARRIERS FROM MERIDIAN RAPID DEFENSE GROUP, OF PASADENA,
CALIFORNIA

WHEREAS, Article VII, Section 10 of the Constitution of the State of Illinois, and the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq., authorize and encourage intergovernmental cooperation; and

WHEREAS, the Village is eligible to participate in the General Services Administration (GSA) (*"General Services Administration"*), a purchasing cooperative that permits local governments to purchase and lease commodities and services according to contracts negotiated by General Services Administration, resulting in significant savings for the Village; and

WHEREAS, the Police Department has identified the need to procure mobile vehicle barriers (*"mobile vehicle barriers"*); and

WHEREAS, the General Services Administration sought bids for the award of the contract for the purchase of the mobile vehicle barriers (*"Purchase Contract"*); and

WHEREAS, the General Services Administration identified Meridian Rapid Defense Group LLC., of Pasadena, California (*"Meridian Rapid Defense Group, LLC."*), as the low responsible bidder for the Purchase Contract; and

WHEREAS, the Village now desires to purchase the mobile vehicle barriers, in a total amount not to exceed \$88,104.44; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to purchase the mobile vehicle barriers from Meridian Rapid Defense Group, LLC, in a total amount not to exceed \$88,104.44, in accordance with the General Services Administration and the Purchase Contract;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF PURCHASE. The President and Board of Trustees hereby approve the purchase by the Village of the mobile vehicle barriers from Meridian Rapid Defense Group, LLC., in a total amount not to exceed \$88,104.44, in accordance with the General Services Administration and the Purchase Contract, is hereby approved.

SECTION 3. EXECUTION OF REQUIRED DOCUMENTATION. The Village Manager and the Village Clerk are hereby authorized to execute and attest, on behalf of the Village, all documents necessary to complete the purchase authorized pursuant to Section 2 of this Resolution.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS 3rd day of February, 2025.

Village President

ATTEST:

Village Clerk



Meridian Rapid Defense Group Sales LLC
177 E. Colorado Blvd
Suite 200
Pasadena CA 91105
United States

Quote
#QUO-S-11198
01/15/2025

Bill To
Arlington Heights Police Department
Deputy Chief Greg Czernecki
200 E Sigwalt Street
Arlington Heights IL 60005
United States

Ship To
Arlington Heights Police Department
Deputy Chief Greg Czernecki
200 E Sigwalt Street
Arlington Heights IL 60005
United States

Date	Expires	Shipping Method	Sales Rep
01/15/2025	04/15/2025	Freight Out	Logan J Dowell

Item		Price Level	Quantity	Rate	Amount
AB1200	Archer 1200 Mobile Barrier	GSA	12	6,513.75	\$78,165.00
AMHA003-2	Archer Manual Hauler 2.0	GSA	1	1,925.18	\$1,925.18
AFTB001	Archer Field Tow Bar	GSA	1	574.18	\$574.18
AACN4F022	Archer Arrestor Cable – 4 ft.	GSA	6	574.18	\$3,445.08
F	Freight Charges		1	3,995.00	\$3,995.00

Subtotal	\$88,104.44
Tax (6.25%)	\$0.00
Total	\$88,104.44

Notes:

Payment Terms:
Due to high demand, Meridian is requesting a 50% deposit to ensure timely delivery of your product.

Wire Transfer Instructions:
Meridian Rapid Defense Group Sales LLC
Account Number: 568605235
Bank Name: Chase Bank, N.A.
Wire Routing : 021000021
ACH Routing : 322271627

Check Remittance:
530 New Los Angeles Ave #115-345
Moorpark, CA 93021





VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Resolution Approving an Intergovernmental Agreement (IGA) for Cost Participation Related to Village-Owned Assets within State R.O.W. under IDOT Contract 62N91

Department: Public Works & Engineering

Item Description:

The Illinois Department of Transportation (IDOT) plans to improve IL Route 53 from Algonquin Road to Salt Creek and Rand Road to Lake Cook Road. The project includes bridge superstructure replacements at Algonquin Road and Rand Road, a full structure replacement at Salt Creek, and resurfacing within project limits. Additional improvements include ADA ramp upgrades, ramp repairs, lighting enhancements, drainage work, and traffic signal updates.

At the Village's request, IDOT has incorporated emergency vehicle pre-emption equipment and Village entrance sign relocation into the project scope. These enhancements will improve both safety and accessibility within Village limits.

The estimated Village share of project costs is \$29,058.00. Per the agreement, the Village will pay 80% of its obligation upfront, with the balance due upon project completion based on final costs. The Village will also assume maintenance responsibilities for sidewalks, shared-use paths, and Village signage upon project completion.

The attached resolution authorizes the Village Manager to execute the Intergovernmental Agreement (IGA) with IDOT and commits the Village to funding its share of the project as outlined in the agreement.

RECOMMENDATION

It is recommended that the Village Board approve the resolution and authorize the Village Manager to execute the agreement with IDOT.

ATTACHMENTS:

1. Resolution Approving IGA Under IDOT Contract with agreement and exhibit

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING AN AGREEMENT
WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION AND
AUTHORIZING FUNDING FOR IMPROVEMENTS TO ILLINOIS ROUTE 53

WHEREAS, the Village and the Illinois Department of Transportation (“**IDOT**”) desire to enter into an agreement concerning the improvement of a portion of Illinois Route 53, from Algonquin Road to Salt Creek & Rand Road to Lake Cook Road under IDOT Contract No. 62N91, in the Village (“**Agreement**”); and

WHEREAS, the Agreement requires that the Village pledge to commit funding for its share of the costs of the improvements to be completed pursuant to the Agreement, which is estimated to be approximately \$29,058.00; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to approve the Agreement and commit the necessary funding for the Village’s share of the cost of the improvements;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF AGREEMENT. The Village President and Board of Trustees hereby approve the Agreement in substantially the form attached to this Resolution as Exhibit No. 1, and in a final form to be approved by the Village Manager and the Village Attorney.

SECTION 3. EXECUTION OF AGREEMENT. The Village Manager is hereby authorized to execute, on behalf of the Village, the Agreement and all necessary documentation related thereto.

SECTION 4. PLEDGE OF VILLAGE FUNDING. The President and Board of Trustees hereby pledge their intent to provide its share of the costs of the improvements to be completed pursuant to the Agreement, which amount is currently estimated as \$29,058.00.

SECTION 5. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

[SIGNATURE PAGE FOLLOWS]

AYES:

NAYS:

PASSED AND APPROVED THIS _____ day of _____, 2025

Village Manager

ATTEST:

Village Clerk

EXHIBIT NO. 1
AGREEMENT

FAP 342 IL 53
Algonquin Road to Salt Creek & Rand Road to Lake Cook Road
State Section No.: 2018-100-BR
Contract No.: 62N91
State Job No.: C-91-172-21
Agreement Number: JN-125-021
County: Cook

AGREEMENT

This Agreement entered into this _____ day of _____, 20__ A.D.,
by and between the STATE OF ILLINOIS, acting by and through its DEPARTMENT
OF TRANSPORTATION, hereinafter called the STATE, and the VILLAGE OF
ARLINGTON HEIGHTS of the State of Illinois, hereinafter called the VILLAGE.

WITNESSETH:

WHEREAS, the STATE, in order to facilitate the free flow of traffic and ensure safety
to the motoring public, is desirous of improving approximately 20,386 lineal feet of
FAP 342 IL 53 from Algonquin Road to Salt Creek & Rand Road to Lake Cook Road,
as STATE Job No.: C-91-172-21, Contract Number 62N91, STATE Section No.
2018-100-BR, as follows:

Bridge superstructure replacement of IL 53 over Algonquin Road, full structure
replacement of IL 53 over Salt Creek, superstructure replacement of IL 53 over Rand
Road, and additional substructure and culvert repairs. Additional major
improvements include resurfacing of IL 53 within project limits, ramp repairs,
drainage, American with Disabilities Act (ADA) ramp improvements, multi- use paths
along IL 62 and Rand Road lighting, aesthetic bridge enhancements, traffic signal

improvements and all other work necessary to complete the improvements in accordance with the approved plans and specifications.

WHEREAS, the VILLAGE has requested that the STATE include in its contract emergency vehicle pre-emption equipment, and village sign relocation, and

WHEREAS, the STATE has agreed to the VILLAGE's request, and

WHEREAS, the VILLAGE is desirous of said improvement in that same will be of immediate benefit to the VILLAGE residents and permanent in nature.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereto agree as follows:

1. The STATE agrees to make the surveys, obtain all necessary rights of way, prepare plans and specifications, receive bids and award the contract, furnish engineering inspection during construction and cause the improvement to be built in accordance with the approved plans, specifications and contract.
2. The STATE agrees to pay for all right of way, construction and engineering cost subject to partial reimbursement by the VILLAGE, as hereinafter stipulated.
3. It is mutually agreed by and between the parties hereto that the estimated cost and cost proration for this improvement is as shown on Exhibit A attached hereto and made a part hereof.

4. The VILLAGE has passed a resolution appropriating sufficient funds to pay its share of the cost for this improvement, a copy of which is attached hereto as Exhibit B and made a part hereof.
5. The VILLAGE agrees to pass a supplemental resolution to provide necessary funds for its share of the cost of this improvement if the amount appropriated in Exhibit B proves to be insufficient to cover said cost.
6. The VILLAGE further agrees that, upon award of the contract for this improvement, the VILLAGE will pay to the STATE, in a lump sum from any funds allotted to the VILLAGE, an amount equal to 80% of its obligation incurred under this AGREEMENT, and will pay to said STATE the remainder of the obligation (including any non-participating costs on FA Projects) in a lump sum, upon completion of the project, based upon final costs.
7. The VILLAGE has adopted a resolution, will send a letter, or sign the Plan Approval page which is part of this document, prior to the STATE advertising for the work to be performed hereunder, approving the plans and specifications as prepared.
8. The VILLAGE shall exercise its franchise rights to cause private utilities to be relocated, if required, at no expense to the STATE
9. The VILLAGE agrees to cause its utilities installed on right of way after said right of way was acquired by the STATE or installed within the limits of a roadway

after the said roadway's jurisdiction was assumed by the STATE, to be relocated and/or adjusted, if required, at no expense to the STATE.

10. All VILLAGE owned utilities on STATE right of way within the limits of this improvement, which are to be relocated/adjusted under the terms of this Agreement, will be relocated/adjusted in accordance with the applicable portions of the "Accommodation of Utilities of Right of Way of the Illinois State Highway System." (92 Ill. Adm. Code 530).
11. The VILLAGE agrees to obtain from the STATE an approved permit for any VILLAGE owned utility relocated/adjusted as part of this improvement, and shall abide by all conditions set forth therein.
12. Upon final field inspection of the improvement and so long as IL 53 is used as a STATE Highway, the STATE agrees to maintain or cause to be maintained the through traffic lanes, the left-turn lanes and right turn lanes, ramps and the curb and gutter or stabilized shoulders and ditches adjacent to those traffic lanes and turn lanes.
13. Upon final field inspection of the improvement, the VILLAGE agrees to maintain or cause to be maintained those portions of the improvement which are not maintained by the STATE, including new and existing sidewalks, new and existing shared-use path, crosswalk and stopline markings and Village signage.
14. It is mutually agreed that the actual traffic signal maintenance will be performed by the STATE either with its own forces or through an ongoing contractual

agreement, pursuant to that certain Intergovernmental Agreement between the STATE and the VILLAGE dated July 1, 2021.

The STATE retains the right to control the sequence of timing on the traffic signals.

15. Although the Department of Transportation's electrical contractor ("State's contractor") will inspect, make note, and keep inventory of the local owned EMERGENCY VEHICLE PRE-EMPTION ("EVP") system to support the maintenance of the "EMERGENCY VEHICLE PRE-EMPTION" system, responsibility for maintenance of the EVP System shall be assumed by the VILLAGE. Maintenance of the EVP system shall include the light detector amplifier, field wiring, light detectors and cabinet appurtenances. The VILLAGE will be invoiced for all such maintenance costs directly by the State's contractor. When repair is necessary, the State's contractor shall notify the VILLAGE that its EVP system is not operating or requiring maintenance. When the repair of maintenance activity has been approved by the VILLAGE, the maintenance will be provided by the State's contractor.

The VILLAGE may require end users of the emitters within its jurisdiction to enter into Separate agreements with the State's contractor to have the emergency vehicle emitters tested in accordance with the recommendation of the Manufacturer of such equipment.

16. It is mutually agreed, if, in the future, the STATE adopts a roadway or traffic signal improvement passing through the traffic signal included herein which requires modernization or reconstruction to traffic signals on US 12 (Rand Road)

at IL 53 (East Ramp) and at Dundee Road, then the VILLAGE agrees to be financially responsible for its proportionate share to modernize or reconstruct said installation and will be responsible for all costs to relocate or reconstruct the Emergency Preemption equipment in conjunction with the STATE's proposed improvement.

17. Under penalties of perjury, the VILLAGE certifies that its correct Federal Tax Identification number is 36-6005774 and it is doing business as a GOVERNMENTAL ENTITY, whose mailing address is:

Village of Arlington Heights
33 S. Arlington Heights Road
Arlington Heights, IL 60005

Obligations of the STATE and the VILLAGE will cease immediately without penalty or further payment being required if, in any fiscal year, the Illinois General Assembly or Federal funding source fails to appropriate or otherwise make available funds for this contract.

This AGREEMENT and the covenants contained herein shall be null and void in the event the contract covering the construction work contemplated herein is not awarded within the three years subsequent to execution of the agreement.

This Agreement shall be binding upon and to the benefit of the parties hereto, their successors and assigns.

VILLAGE OF ARLINGTON HEIGHTS

By: _____
(Signature)

Attest:

Clerk

(SEAL)

By: _____
(Print or Type)

Title: _____

Date: _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

By: _____
Jose Rios, P.E.
Region One Engineer

Date: _____

Job No. : C-91-172-21
Agreement No.: JN-125-021

PLAN APPROVAL

WHEREAS, in order to facilitate the improvement of FAP 342, IL 53 from Algonquin Road to Salt Creek & Rand Road to Lake Cook Road, State Section No: 2018-100-BR State Job No: C-91-172-21, the VILLAGE agrees to that portion of the plans and specifications relative to the VILLAGE's financial and maintenance obligations described herein, prior to the STATE's advertising for the aforescribed proposed improvement.

Approved _____

Title _____

Date _____

Exhibit B
FUNDING RESOLUTION

WHEREAS, the VILLAGE OF ARLINGTON HEIGHTS (VILLAGE) has entered into an AGREEMENT with the STATE OF ILLINOIS (STATE) for the improvement of IL 53 from Algonquin Road to Salt Creek & Rand Road to Lake Cook Road, known as Contract No. 62N91, STATE Section No.: 2018-100-BR; and

WHEREAS, in compliance with the aforementioned AGREEMENT, it is necessary for the VILLAGE to appropriate sufficient funds to pay its share of the cost of said improvement.

NOW THEREFORE, BE IT RESOLVED, that there is hereby appropriated the sum of Twenty Nine Thousand Fifty Eight Dollars (\$29,058) or so much thereof as may be necessary, from any money now or hereinafter allotted to the VILLAGE, to pay its share of the cost of this improvement as provided in the AGREEMENT; and

BE IT FURTHER RESOLVED, that upon award of the contract for this improvement, the VILLAGE will pay to the STATE in a lump sum from any funds allotted to the VILLAGE, an amount equal to 80% of its obligation incurred under this AGREEMENT, and, upon completion of the project, will pay to said STATE the remainder of its obligation, based on final costs; and
.

BE IT FURTHER RESOLVED, that the VILLAGE agrees to pass a supplemental resolution to provide any necessary funds for its share of the cost of this improvement if the amount appropriated herein proves to be insufficient, to cover said cost.

STATE OF ILLINOIS)

COUNTY OF COOK)

I, _____, Village Clerk in and for the Village of Arlington Heights, hereby
certify the foregoing to be a true perfect and complete copy of the resolution adopted by the
Village Board at a meeting on _____, 20__ A.D.

IN TESTIMONY WHEREOF, I have hereunto set my hand seal this _____ day of
_____. 20__ A.D.

Village Clerk

(SEAL)

EXHIBIT A ESTIMATE OF COST Contract 62N91											
Type of Work	FEDERAL		STATE		Village of Arlington Heights		Village of Palatine		City of Rolling Meadows		TOTAL
	\$	%	\$	%	\$	%	\$	%	\$	%	\$
TRAFFIC SIGNALS											
US 12 (Rand Road) at IL 53 (West Ramp)	\$233,004	90%	\$25,889	10%							\$258,893
P&C Engineering (15%)	\$34,951	90%	\$3,883	10%							\$38,834
Emergency Vehicle Pre-emption System							\$3,389	100%			\$3,389
P&C Engineering (15%)							\$508	100%			\$508
US 12 (Rand Road) at IL 53 (East Ramp)	\$314,042	90%	\$34,894	10%							\$348,935
P&C Engineering (15%)	\$47,106	90%	\$5,234	10%							\$52,340
Emergency Vehicle Pre-emption System					\$12,806	100%					\$12,806
P&C Engineering (15%)					\$1,921	100%					\$1,921
IL 68 at IL 53 (East Ramp)	\$361,003	90%	\$40,111	10%							\$401,114
P&C Engineering (15%)	\$54,150	90%	\$6,017	10%							\$60,167
Emergency Vehicle Pre-emption System					\$9,962	100%					\$9,962
					\$1,494	100%					\$1,494
IL 68 at IL 53 (West Ramp)	\$181,566	90%	\$20,174	10%							\$201,740
P&C Engineering (15%)	\$27,235	90%	\$3,026	10%							\$30,261
Emergency Vehicle Pre-emption System							\$2,963	100%			\$2,963
P&C Engineering (15%)							\$444	100%			\$444
IL 62 at IL 53 East and West Ramp	\$399,761	90%	\$44,418	10%							\$444,179
P&C Engineering (15%)	\$59,964	90%	\$6,663	10%							\$66,627
Relocate Existing emergency vehicle pre-emption system									\$4,385	100%	\$4,385
P&C Engineering (15%)									\$658	100%	\$658
Bridge Aesthetic Improvements (IL 53 over IL 62) Algonquin Road									\$91,830	100%	\$91,830
P&C Engineering (15%)									\$13,775	100%	\$13,775
Ornamental Fence (along IL 62 under IL 53 Bridge)									\$27,500	100%	\$27,500
P&C Engineering (15%)									\$658	100%	\$658
Relocation of Village Sign at Rand Road					\$2,500	100%					\$2,500
P&C Engineering (15%)					\$375	100%					\$375
TOTAL	\$1,712,781		\$190,309		\$29,058		\$7,305		\$138,805		\$ 2,078,258
NOTE: Local participation shall be predicated upon the percentages shown above for the specified work. Local Agency cost shall be determined by multiplying the final quantities times contract unit price plus the percentage shown for construction and/or preliminary engineering unless otherwise noted.											



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Resolution Authorizing the Purchase of a 2025 Ford F550
Cook County EMRS UASI Grant

Department: Police

Item Description:

Background

The Arlington Heights Police Department submitted for, and was awarded, a subaward grant in 2024 through the Cook County Department of Emergency Management and Regional Security (under the Federal Emergency Management Agency's Homeland Security Urban Area Security Initiative UASI Grant Program) for the purposes of providing resources to enhance and improve counter-terrorism capabilities. Funding assistance under the grant was directed towards implementing a volunteer-based community emergency response team, aligning with the National priority of enhancing community preparedness and resilience. An emergency response team supplements and support front-line sworn public safety personnel, allowing for enhanced response during incidents and pre-planned events.

The Police Department researched best practices and equipment requirements for volunteer-based community emergency response teams, identifying the need of a special purpose vehicle for transportation of equipment and emergency response team volunteers to the scene of public safety incidents and events. The Cook County EMRS UASI grant allocated \$100,000.00 towards the purchase and build of such a specialized purpose vehicle. Police Department staff identified the 2025 Ford F550 vehicle chassis as the preferred vehicle platform, outfitted with a multi-compartment custom aluminum service body for equipment organization and storage. Sutton Ford of Matteson, Illinois submitted a detailed specifications for the vehicle and service body build, meeting project requirements under a cooperative purchasing agreement (Suburban Purchasing Cooperative). Due to price increases and finalized buildout requirements, the total cost exceeded the award amount by \$14,926.67 from the initial estimates submitted by staff in the grant application in late 2023.

Recommendation

The Police Department recommends the Village Board waive the formal bidding process and approve a resolution authorizing the purchase of a 2025

Ford F550 vehicle with custom aluminum service body from Sutton Ford of Matteson, Illinois under the Suburban Purchasing Cooperative, in the amount \$114,926.67. Funding for the vehicle acquisition will be allocated between two accounts: \$100,000.00 from Account No. 101-3001-521651 - Grants subject to grant reimbursement in the same amount from Cook County EMRS, and Account No. 231-3003-540110 - Police Equipment EQ9501 for the remaining balance of \$14,926.67 utilizing federal asset forfeiture funds from the Criminal Investigation Fund.

ATTACHMENTS:

1. RESOLUTION - Ford F550 UASI Grant (FY25)
2. Arlington Heights F550 Service Body Quote
3. Arlington Heights F550 Service Body Specifications

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE PURCHASE OF
2025 FORD F550 FROM SUTTON FORD, OF MATTESON, ILLINOIS

WHEREAS, Article VII, Section 10 of the Constitution of the State of Illinois, and the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq., authorize and encourage intergovernmental cooperation; and

WHEREAS, the Village is eligible to participate in the Suburban Purchasing Cooperative (SPC) (*"Suburban Purchasing Cooperative"*), a purchasing cooperative that permits local governments to purchase and lease commodities and services according to contracts negotiated by Suburban Purchasing Cooperative, resulting in significant savings for the Village; and

WHEREAS, the Police Department has identified the need to procure a 2025 Ford F550 DRW Chassis and Service Body (*"2025 Ford F550"*); and

WHEREAS, the Suburban Purchasing Cooperative sought bids for the award of the contract for the purchase of the 2025 Ford F550(*"Purchase Contract"*); and

WHEREAS, the Suburban Purchasing Cooperative identified Sutton Ford, of Matteson, Illinois (*"Sutton Ford"*), as the low responsible bidder for the Purchase Contract; and

WHEREAS, the Village now desires to purchase the 2025 Ford F550, in a total amount not to exceed \$114,926.67; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to purchase the 2025 Ford F550 from Sutton Ford, in a total amount not to exceed \$114,926.67, in accordance with the Suburban Purchasing Cooperative and the Purchase Contract;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF PURCHASE. The President and Board of Trustees hereby approve the purchase by the Village of the 2025 Ford F550 from Sutton Ford, in a total amount not to exceed \$114,926.67, in accordance with the Suburban Purchasing Cooperative and the Purchase Contract, is hereby approved.

SECTION 3. EXECUTION OF REQUIRED DOCUMENTATION. The Village Manager and the Village Clerk are hereby authorized to execute and attest, on behalf of the Village, all documents necessary to complete the purchase authorized pursuant to Section 2 of this Resolution.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS 3rd day of February, 2025.

Village President

ATTEST:

Village Clerk



COMMERCIAL
& FLEET

SUTTON FORD INC.

21315 CENTRAL AVE.
MATTESON IL 60443

INVOICE

Monday, January 27, 2025

DATE

PURCHASER'S NAME

ARLINGTON HEIGHTS POLICE DEPT

STREET ADDRESS

CITY

ARLINGTON HEIGHTS

STATE

IL

ZIP

BUS PHONE

847-368-5358

PLEASE ENTER MY ORDER FOR THE FOLLOWING

NEW ☒

USED ☐

SUV ☐

TRUCK ☒

CAR ☐

YEAR	MAKE	MODEL	BODY TYPE	COLOR	TRIM	STOCK NO.
2025	FORD	F550	4X4 CREW CHASSIS CAB	BLACK	XL	ORDER
VIN NO.			MILES	SALES REP Scott Ourednik		
2025 FORD F550 4X4 CREW CHASSIS CAB DRW			\$61,160.00	TRADE-IN INFORMATION		
60" CA 179" WHEELBASE				MAKE OF USED VEHICLE		
				YEAR		
VEHICLE PAID FOR WHEN DELIVERED TO UPFIT				MODEL		
				VEHICLE IDENT. NO.		
KNAPHEIDE SERVICE BODY			\$53,593.67	MILEAGE		
				TRADE VALUE		
SUBTOTAL			\$114,753.67	FLEET SALES INFORMATION		
ELECTRONIC FILING FEE			\$0.00	ORDERING FIN	QI500	
DOCUMENTATION FEE			\$0.00	END USER FIN	QI500	
ILLINIOS SALES TAX 7.25%			\$0.00	SALES TYPE	3	
COUNTY TAX- COOK 1.00%			\$0.00	GPC DISCOUNT		
CITY OF CHICAGO TAX 1.25%			\$0.00	GPC REF #		
COOK COUNTY WHEEL TAX			\$0.00	56A/CPA DISCOUNT		
LICENSE, TRANSFER, TITLE			\$173.00	56M DISCOUNT		
EXTENDED SERVICE CONTRACT			\$0.00	RETAIL REBATE #		
TOTAL PRICE			\$114,926.67			
CASH DOWN PAYMENT			\$0.00			
REBATE			\$0.00			
TOTAL DOWN PAYMENT			\$0.00			
UNPAID CASH BALANCE DUE ON DELIVERY			\$114,926.67			

Purchaser agrees that this Order includes all of terms and conditions on both the face and reverse side hereof, that this Order cancels and supersedes any price agreement and as of the date hereof comprises the complete and exclusive statement of the terms of the agreement relating to the subject matters covered hereby **THIS ORDER IS NOT A BINDING CONTRACT. DEALER SHALL NOT BE OBLIGATED TO SELL UNTIL APPROVAL OF THE TERMS HEREOF IS GIVEN BY A BANK OR FINANCE COMPANY WILLING TO PURCHASE A RETAIL INSTALLMENT CONTRACT BETWEEN THE PARTIES HERETO BASED ON SUCH TERMS. ALL WARRANTIES, IF ANY, BY A MANUFACTURER OR SUPPLIER OTHER THAN DEALER ARE THEIRS, NOT DEALER'S, AND ONLY SUCH MANUFACTURER OR OTHER SUPPLIER SHALL BE LIABLE FOR PERFORMANCE UNDER SUCH WARRANTIES. UNLESS DEALER FURNISHES BUYER WITH A SEPARATE WRITTEN WARRANTY OR SERVICE CONTRACT MADE BY DEALER ON ITS OWN BEHALF, DEALER HEREBY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE: (A) ON ALL GOODS AND SERVICES SOLD BY DEALERS; AND (B) ON ALL USED VEHICLES WHICH ARE HEREBY SOLD "AS IS-NOT EXPRESSLY WARRANTED OR GUARANTEED." TO THE NEGOTIATED CASH SALE PRICE OF EACH VEHICLE. THERE WILL BE ADDED THE SUM OF \$303.60 FOR DEALER COSTS AND OVERHEAD FOR ITEM RELATING TO PREPARING, HANDLING AND PROCESSING DOCUMENTS FOR THE MOTOR VEHICLE AND THE CLOSING OF THE TRANSACTION. THE ONLY OTHER ADDITIONAL CHARGES PERMITTED ARE DEALER-ADDED OPTIONS. WARRANTY AND SERVICE CONTRACTS, INSURANCE AND THE ACTUAL COST OF LICENSE AND TITLE REGISTRATION AND TAXES.**

ACCEPTED BY:

PURCHASER'S SIGNATURE

DATE

1/27/2025

ACCEPTED BY:

Scott Ourednik

DEALER OR HIS AUTHORIZED REPRESENTATIVE

DATE

1/27/2025



2025 FORD F550 DRW CHASSIS CONTRACT #227



WWW.SUTTONTRUCKS.COM

CONTACT: SCOTT OUREDNIK

PHONE 708-720-8040

EMAIL: sourednik@suttonford.com

25 FORD F550 REG CAB 4X2 60 CA

BASE PRICE \$51,016



Please enter the following information:

Agency Name & Address ARLINGTON HEIGHTS POLICE

Contact Name
Contact phone number
Purchase order number
Total Dollar amount
Total number of units 1
Tax Exempt #
Delivery Address

FIN CODE QI500

PLEASE SUBMIT P.O. & TAX EXEMPT LETTER WITH VEHICLE ORDER

Sutton Ford Commercial Truck Center

21315 Central Ave

Matteson, IL 60443

Contact : Scott Ourednik

Phone# 708-720-8040

E-Mail: sourednik@suttonford.com

MAJOR PRODUCT CHANGES

OVERVIEW

The 2025 Super Duty® Chassis Cab reinforces the long tradition of F-Series toughness and continues to meet the needs of a multitude of commercial vocations, as well as personal use towing customers. Trademark "Built Ford Tough®" attributes such as capability to get the job done, quality, reliability, power, breadth and depth of product choices are solidly behind Chassis Cab users.

To learn more about the features on this vehicle, go to www.fordsourcebook.com

MODEL/SERIES/AVAILABILITY

- XL, XLT, Lariat

MECHANICAL

- ★ *New/Changed*
- None
- *Deleted*
 - None

EXTERIOR

- ★ *New/Changed*
 - Halogen fog lamps – standard on XLT
- ★ *New Colors*
 - Avalanche (DR)
 - Ruby Red Metallic Tinted Clearcoat (RR)
- *Deleted Colors*
 - Iconic Silver Metallic
 - Rapid Red Metallic Tinted Clearcoat

INTERIOR/COMFORT

- ★ *New/Changed*
 - ActiveX® Seating Material – standard on Lariat
 - Wrapped Steering Wheel – standard on Lariat

SAFETY/SECURITY

- ★ *New/Changed*
 - Ford Security Package (1-year included with activation)
- *Deleted*
 - None

FORD CO-PILOT360™ TECHNOLOGY

- ★ *New/Changed*
 - None

FUNCTIONAL

- ★ *New/Changed*
 - SecuriCode™ keyless entry keypad (DIO)
 - Trailer Brake Controller (52B) – optional on XL; standard on XLT and Lariat
 - Ford Pro Upfit Integration System name changed to Vehicle Integration System 2.0 – standard

PACKAGES

- ★ *New/Changed*
- None

Product Changes and Features Availability

Features, options, and package content subject to change. Please check www.fmcdealer.com for the most current information.

★ = New for this model year

STANDARD EQUIPMENT

The following features are standard on every 2025 SUPER DUTY® Chassis Cab vehicle:

MECHANICAL

- Brakes – Four-wheel Disc Brakes with Anti-Lock Brake System (ABS)
- Operator Commanded Regeneration (OCR) (6.7L Power Stroke® Diesel Engine Only)
- Transmission Power Take-Off Provision

EXTERIOR

- Doors
 - Two (Regular Cab only)
 - Four (SuperCab/Crew Cab only)
- Fuel Tank
 - 40 gallon aft axle
 - Diesel Exhaust Fluid (DEF) Tank Location:
 - Aft-of-axle fuel tank is paired with the DEF tank located in the mid ship location, between the frame rails.
 - Mid ship fuel tank is paired with the DEF tank located outside of the frame rail
 - Dual tanks are paired with the DEF tank located outside of the frame rail
- Glass
 - Solar-tinted complete (Std. on XL)
 - Privacy (Std. on XLT and Lariat; NA front-seat windows)
- Manual Locking Hub (4x4)
- Scuff plates – front, color-coordinated
- “Three-Blink” lane change signal
- Tow hooks – front, (two) (2)
- Trailer wiring – 7 wire harness w/relays, blunt cut and labeled
- Windshield wipers – intermittent

INTERIOR/COMFORT

- Convenience
 - Coat hooks, LH/RH color-coordinated
 - Dash top tray
 - Dome lamp – LH/RH door activated & I/P switch operated w/delay
 - Handles, grab – driver & front-passenger
 - Handles, roof ride – front-passenger (also over rear-doors on Crew Cab)
 - Map lights – dual (front and rear w/Crew Cab)
 - 12V Powerpoint, auxiliary
- Door-trim – color-coordinated molded w/grab handle & reflector
- Gauges and Meters – Fuel, Transmission Temperature, Engine Coolant Temperature, Oil Pressure (Gas engine) and Turbo (Diesel engine) Gauges; Speedometer, Odometer and Tachometer
- Headliner – color-coordinated cloth
- Instrument panel – color-coordinated w/ glove box, four (4) air registers w/positive shut-off and powerpoint
- Instrumentation Center
 - 4.2” LCD Productivity Screen in IP Cluster (standard on XL and XLT)
 - 12” LCD Productivity Screen in IP Cluster (Standard on Lariat)

INTERIOR/COMFORT (continued)

- Power Equipment Group – 1st row (front-seat) windows w/ one-touch up/down, power 2nd row (rear-seat) windows (Super/Crew Cab); power/door-locks w/backlit switches & accessory delay
- Overhead Console with 6 Upfitter Switches
- Steering – power
- Steering damper

SAFETY/SECURITY

- AdvanceTrac® with RSC® (Roll Stability Control™)
- Airbags
 - Driver and Passenger frontal and side airbag/curtain
 - Passenger side airbag deactivation switch
- Child tethers (Regular Cab front-passenger and all rear-seating positions)
- Lamps – LED Roof marker/clearance
- Safety Belts
 - Belt-Minder® (front safety belt reminder) – chime and flashing warning lights on I/P if belts not buckled
 - Color-coordinated safety belts w/height adjustment (front-outboard seating positions only)
- SecuriLock® Passive Anti-Theft System (PATS)
- SOS Post-Crash Alert System™
- Stationary Elevated Idle Control (SEIC)
- Ford Security Package (1-year included with activation)

FORD CO-PILOT360™ TECHNOLOGY

- AutoLamp – Auto On/Off Headlamps
- Cruise Control (steering wheel-mounted)

FUNCTIONAL

- Alternator
 - XL:
 - 7.3L 2 Valve Gas – 190 AMP
 - 6.7L 4 Valve Diesel – 250 AMP
 - XLT:
 - 7.3L 2 Valve Gas – 410 AMP Dual
 - 6.7L 4 Valve Diesel – 350 AMP Dual
 - Lariat:
 - 7.3L 2 Valve Gas – 410 AMP Dual
 - 6.7L 4 Valve Diesel – 350 AMP Dual
- Vehicle Integration System 2.0 (includes Grp65 68AH 750 CCA AGM battery when equipped with 7.3L gas engine and 250 amp single alternator)
- Hood release
- Horn – dual electric
- Intelligent Oil-Life Monitor® (6.7L Power Stroke® Diesel engine)
- Oil minder system
- Shock absorbers – heavy-duty gas
- Springs, rear auxiliary
- Stabilizer bar – front and rear

The following features are standard on selected 2025MY SUPER DUTY® Chassis Cab vehicles:

MECHANICAL	XL	XLT	LARIAT
<u>Engine</u>			
7.3L 2V DEVCT NA PFI V8 Gas (F-350/F-450/F-550/F-600)	•	•	•
<u>Transmission</u>			
Ten-Speed 10R140 with Neutral Idle Automatic Transmission with Selectable Drive Modes: Normal, Tow/Haul, Eco, Deep Sand/Snow & Slippery	•	•	•
<u>Base Alternator</u>			
190 Amp (F-350/F-450/F-550/F-600 Std. on 7.3L Gas Engine)	•		
250 Amp (F-350/F-450/F-550/F-600 w/ 6.7L Diesel Engine)	•		
350 Amp Dual (F-350/F-450/F-550/F-600 w/ 6.7L Diesel)		•	•
410 Amp (F-350/F-450/F-550/F-600 w/ 7.3L Engine)		•	•
<u>Axle</u>			
Monobeam front axle w/coil spring suspension (F-350 4x4, F-450, F-550 and F-600)	•	•	•
Independent Twin-I-beam front axle w/coil spring suspension (F-350 4x2)	•	•	

★ = New for this model year
• = Available

1 = Regular Cab only, 2 = SuperCab only, 3 = Crew Cab only

STANDARD EQUIPMENT

MECHANICAL (continued)	XL	XLT	LARIAT
Battery			
750 CCA, Dual (7.3L Gas F-450 and F-550 XLT & Lariat)		•	•
Fuel Tanks			
40 gallon aft axle	•	•	•
KEY EXTERIOR FEATURES			
Bumper – Front			
Black painted steel w/grained MIC top cover and black lower air dam	•		
Chrome w/grained MIC top cover and black lower air dam		•	•
Grille			
Black MIC	•		
Bright Chrome – two (2) bar		•	
Chrome – two (2) bar (includes additional chrome inserts)			•
Handles – Door and Tailgate			
Black	•	•	
Body-color			•
Headlamps/Taillamps/Lamps			
Quad-beam halogen jewel effect	•	•	
LED Reflector			•
Halogen Taillamps	•	•	•
Halogen Fog Lamps		•	
LED Fog lamps			•
LED Roof Marker/Clearance Lamps	•	•	•
Utility Lighting System (LED Side-mirror Spotlights) (see mirror descriptions below)			•
Mirrors			
Manually telescoping/folding trailer tow with power/heated glass, heated convex spotter mirror, Integrated Clearance Lamps/Turn Signals	•	•	
Power-folding with Autofold, PowerScope® Telescoping, Power Glass Trailer Tow Mirrors with Heat, Turn Signal, High-Intensity LED Security Approach Lamps, Utility Lighting System (LED Side-mirror Spotlights)			•
Wheels (SRW)			
18" Argent Painted Steel w/painted hub covers/center ornaments (F-350)	•		
18" Sparkle Silver Painted Cast Aluminum w/bright hub covers/center ornaments (F-350)		•	
18" Bright Machined Cast Aluminum w/Carbonized Gray Painted Pockets and bright hub covers/center ornaments (F-350)			•
Wheels (DRW)			
17" Argent Painted Steel (hub covers/center ornaments not included (F-350)	•	•	
17" Forged Polished Aluminum w/bright hub covers/center ornaments (F-350)			•
19.5" Argent Painted Steel (F-450/F-550/F-600)	•	•	
19.5" Forged Polished Aluminum w/bright hub covers/center ornaments (F-450/F-550)			•
Windows and Glass			
1 st Row (front-seat) – Power w/one-touch up/down	•	•	•
2 nd Row (rear-seat) – Power	•(2,3)	•(2,3)	•(2,3)
Rear (backlight) – Fixed	•	•	
Rear (backlight) – Fixed w/defrost			•
Solar-tinted glass (complete)	•		
Privacy glass, (rear backlight on all cabs; 2 nd Row (rear-seat) windows on SuperCab and Crew Cab. Other glass is solar-tinted.)		•	•
KEY INTERIOR/COMFORT FEATURES			
Air Conditioning			
Manual, Single Zone	•	•	
Dual-Zone Electronic Automatic Temperature Control (DEATC)			•

★ = New for this model year
• = Available

1 = Regular Cab only, 2 = SuperCab only, 3 = Crew Cab only

STANDARD EQUIPMENT

KEY INTERIOR/COMFORT FEATURES (continued)	XL	XLT	LARIAT
Audio			
AM/FM stereo MP3 player (speakers; four (4) with Regular Cab, six (6) with SuperCab and Crew Cab)	•	•	
★SiriusXM® with 360L Radio Note: Includes a three (3)-month prepaid subscription. Service is not available in Alaska and Hawaii. Note: SiriusXM audio and data services each require a subscription sold separately, or as a package, by Sirius XM Radio Inc. If you decide to continue service after your trial, the subscription plan you choose will automatically renew thereafter and you will be charged according to your chosen payment method at then-current rates. Fees and taxes apply. To cancel you must call SiriusXM at 1-866-635-2349. See SiriusXM Customer Agreement for complete terms at www.siriusxm.com . All fees and programming subject to change. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc			•
B&O® Sound System by Bang & Olufsen w/ HD Radio™ (eight (8) speakers including subwoofer)			•
SYNC® 4 – 8" LCD Capacitive Touchscreen with Swipe Capability – Wireless Phone Connection – Cloud Connected – AppLink® w/ App Catalog – 911 Assist® – Apple CarPlay™ and Android Auto™ Compatibility – Digital Owner's Manual	•	•	
★SYNC® 4 with Enhanced Voice Recognition – 12" LCD Capacitive Touchscreen with Swipe Capability – Information On Demand Panel – Wireless Phone Connection – Cloud Connected – AppLink® w/ App Catalog – 911 Assist® – Apple CarPlay® and Android Auto™ Compatibility – Digital Owner's Manual – Conversational Voice Command Recognition			•
FordPass™ Connect 5G – Wi-Fi Modem – Wi-Fi® hotspot connects up to 10 devices ¹ – Remotely start, lock and unlock vehicle ² – Schedule specific times to remotely start vehicle ² – Locate parked vehicle ² – Check vehicle status ² Note: Ford Telematics™ and Data Services Prep included for Fleet Only: FordPass™ Connect 5G Wi-Fi Modem provides data to support telematics and data services including but not limited to vehicle location, speed, idle time, fuel, vehicle diagnostics and maintenance alerts. Device enables telematics services through Ford or authorized providers. Activate at www.fleet.ford.com or call 833-FCS-FORD or 833-327-3673.	•	•	•
Cupholders			
Dual, instrument panel-mounted	•	•	•
Integrated w/armrest on rear-seat			•(3)
Door-Trim			
Armrest, grab handle and reflector	•		
Soft armrest, grab handle, power window/lock switches and reflector; front map pockets on Regular Cab and SuperCab; front and rear map pockets on Crew Cab		•	
Soft armrest, grab handle, power window/lock switches, upper applique, reflector; front and rear map pockets on Crew Cab			•
Floor Covering			
Black vinyl	•		
Color-coordinated carpet and carpeted floor mats (includes rear mats on SuperCab & Crew Cab) (deleted when all-weather floor mats are ordered)		•	•
Instrumentation Center			
4.2' Productivity Screen display includes menus for Gauge Setup, Trip Computer, Fuel Economy and Towing/Off-Road applications five (5) button message control on steering wheel (included with the SYNC® and SYNC® Services)	•	•	
12" Productivity Screen display includes menus for Gauge Setup, Trip Computer, Fuel Economy and Towing/Off-Road applications; five (5) button message control on steering wheel			•
Overhead Console – with storage bin and map lights	•	•	•

¹ Includes a trial subscription of 3 months or 3 gigabytes – whichever comes first, Wireless Service Plan required after trial subscription ends² Includes Service for one year from the vehicle sale date as recorded by the dealer

★ = New for this model year

• = Available

1 = Regular Cab only, 2 = SuperCab only, 3 = Crew Cab only

STANDARD EQUIPMENT

KEY INTERIOR/COMFORT FEATURES (continued)	XL	XLT	LARIAT
Power Equipment			
Accessory delay	•	•	•
Door-locks w/backlit switches	•	•	•
Windows w/backlit switches	•	•	•
Powerpoint and 120V/400W Outlet			
One (1) Powerpoint in front center under-seat storage		•	
Two (2) Powerpoints in instrumentation center	•	•	•
Two (2) Powerpoints in rear side of Flow-through Console			•
120V/400W Outlet dash mounted		•	•
120V/150W Outlet in rear side of Flow-through Console			•
120V/150W Inverter outlet in IP		•	•
Rearview Mirror			
11.5" day/night	•	•	
Electrochromic self-dimming			•
Remote Start System			•
Seats (Front)			
HD vinyl, 40/20/40 split bench w/center armrest, cupholder and storage	•		
Cloth, 40/20/40 split bench, 20% center under-seat storage, w/center armrest, cupholder and storage		•	
ActiveX® Seating Material, 40/Console/40			•
Manual lumbar support, driver's side	•	•	
8-way power driver & power front-passenger seats (four-way power-adjustable track, two-way power recline and two-way power lumbar)			•
Two-way adjustable driver/passenger headrests	•	•	•
Easy Entry Driver's Seat w/ Memory			•
Seats (Rear) SuperCab			
Vinyl, 60/40 fold-up bench seat	•		
Cloth, 60/40 fold-up bench seat		•	
Seats (Rear) Crew Cab			
60/40 bench w/flip-up/fold-down w/2 outboard head restraints and a center head restraint	•		
60/40 bench w/flip-up seats & fold-down backrests, two (2) outboard head restraints and a center head restraint.		•	
60/40 bench w/flip-up seats & fold-down backrests w/under-seat lockable fold-flat storage, two (2) outboard head restraints and a center head restraint. Dual integrated cupholders in armrest			•
Vinyl	•		
Cloth		•	
Leather			•
Steering Wheel			
Urethane – Black – w/redundant audio and SYNC® controls	•	•	
Wrapped – w/redundant audio and SYNC® controls			•
Heated Steering Wheel			•
Cruise Control (steering wheel-mounted)	•	•	•
Tilt and Telescoping steering wheel/column (Manual)	•	•	•
Sun Visors			
Color-coordinated vinyl, driver w/pocket, passenger w/uncovered mirror	•		
Color-coordinated Cloth, both driver and passenger w/covered mirrors		•	
Color-coordinated Cloth; both driver and passenger w/covered illuminated visor vanity mirror			•
SAFETY/SECURITY	XL	XLT	LARIAT
AdvanceTrac® with RSC® (Roll Stability Control™)	•	•	•
AutoLamp (Auto On/Off Headlamps), Rainlamp Wiper Activated Headlamps	•	•	•
Autolock, Auto unlock	•	•	•
Ford Security Package (1-year included with activation)	•	•	•
Remote Keyless Entry	•	•	•
SecuriLock® Passive Anti-Theft System (PATS)	•	•	•
Trailer Sway Control and Hill Start Assist	•	•	•
Airbags			
Driver & Passenger side	•	•	•
Passenger-side deactivation switch	•	•	•

SELECT	OPTION CODE	TRUCK MODEL	PRICE
F550 XL REGULAR CHASSIS CAB DRW			
☐	F5G	4X2 REG CAB 60" CA - 145" WB	\$51,016
☐	F5G	4X2 REG CAB 84" CA - 169" WB	\$53,024
☐	F5G	4X2 REG CAB 108" CA - 193" WB	\$53,182
☐	F5G	4X2 REG CAB 120" CA - 205" WB	\$53,336
☐	F5H	4X4 REG CAB 60" CA - 145" WB	\$55,488
☐	F5H	4X4 REG CAB 84" CA - 169" WB	\$55,641
☐	F5H	4X4 REG CAB 108" CA - 193" WB	\$55,796
☐	F5H	4X4 REG CAB 120" CA - 205" WB	\$55,954
F550 XL SUPER CHASSIS CAB DRW			
☐	X5G	4X2 SUPER CAB 60" CA - 168" WB	\$54,003
☐	X5G	4X2 SUPER CAB 84" CA - 192" WB	\$54,157
☐	X5H	4X4 SUPER CAB 60" CA - 168" WB	\$57,157
☐	X5H	4X4 SUPER CAB 84" CA - 192" WB	\$57,316
F550 XL CREW CHASSIS CAB DRW			
☐	W5G	4X2 CREW CAB 60" CA - 179" WB	\$54,956
☐	W5G	4X2 CREW CAB 84" CA - 203" WB	\$55,114
☒	W5H	4X4 CREW CAB 60" CA - 179" WB	\$58,114
☐	W5H	4X4 CREW CAB 84" CA - 203" WB	\$58,277
POWERTRAINS			
☐	99T	6.7L POWER STROKE V8 TURBO DIESEL	\$9,551
☐	X4N	AXLE, LIMITED SLIP 4.10 RATIO (6.7L)	\$360
☐	X4L	AXLE, LIMITED SLIP 4.30 RATIO (6.7L)	\$360
☐	X8L	AXLE, LIMITED SLIP 4.88 RATIO (6.7L OR 7.3L)	\$360
TIRES			
☐	TGM	LT225/70RX19.5G BSW TRACTION (4) A/P (2)	\$173
☐	TGK	LT225/70RX19.5G BSW TRACTION (6) 4X4	\$195
☐	512	SPARE TIRE, JACK, & WHEEL	\$319

SEATS			
REGULAR & SUPER CAB			
☐	AS	VINYL 40/20/40	STD
☐	LS	VINYL 40/CONSOLE/40	\$323
☐	1S	CLOTH 40/20/40	\$91
☐	4S	CLOTH 40/CONSOLE/40	\$468
CREW CAB			
☒	AS	VINYL 40/20/40	STD
☐	LS	VINYL 40/CONSOLE/40	\$323
☐	1S	CLOTH 40/20/40	\$286
☐	4S	CLOTH 40/CONSOLE/40	\$559
OPTIONS			
☐	96V	XL CHROME VALUE PACKAGE	\$205
☐	473	SNOWPLOW PACKAGE (N/A W/ 67X, 67H, 47A, 47L, 47J)	\$228
☐	67X	SUSPENSION PACKAGE, EXTRA HEAVY SERVICE	\$114
☐	67H	SUSPENSION PACKAGE, HEAVY SERVICE	\$114
☐	67P	EXTRA HD FRONT END SUSPENSION - GAWR 7,500# (REQ 4.30 OR 4.88 AXLE) (N/A W/ 67H, 67X, 473)	\$260
☐	68D	PAYLOAD DOWNGRADE PACKAGE - 17,500 GVWR	N/C
☐	68U	PAYLOAD UPGRADE PACKAGE (ONLY ON 7.3L GAS W/ 145" WB)	\$741
☐	68M	PAYLOAD PLUS UPGRADE PACKAGE (REQUIRES 6.7L DIESEL-99T)	\$1,051
☐	98G	CNG/PROPANE GASEOUS ENGINE PREP PACKAGE (7.3L REG CAB ONLY)	\$286
☐	18B	PLATFORM RUNNING BOARDS (REG CAB)	\$291
☒	18B	PLATFORM RUNNING BOARDS (SUPER/CREW CAB)	\$405
☐	65M	FUEL TANK, 26.5 GAL MIDSHIP	\$114
☐	65C	FUEL TANK, DUAL DIESEL (26.5 & 40 GAL)	\$569
☒	41H	HEATER, ENGINE BLOCK	\$173

☒	41P	SKID PLATE PACKAGE (4X4 ONLY)	\$91
☐	86S	LOW DEFLECTION PACKAGE (NA W/ 145" WB 4X4)	\$100
☒	52B	TOW COMMAND INTEGRATED BRAKE CONTROLLER	\$273
☐	61J	TIRE JACK, HYDRAULIC	\$50
☐	535	HIGH CAPACITY DUTY TRAILER TOW (DIESEL)	\$528
☐	41A	RAPID-HEAT SUPPLEMENTAL CAB HEATER (DIESEL)	\$228
☐	61L	FRONT WHEEL WELL LINERS	\$164
☒	872	REAR VIEW CAMERA & PREP PACKAGE	\$377
☐	59H	CENTER HIGH MOUNT STOP LAMP - CHMSL	N/C
☒	76C	EXTERIOR BACK UP CHIME	\$200
☐	52S	INTERIOR WORK SURFACE (REQ 40/20/40 SEATS)	\$128
☒	43K	2kW PRO POWER (REQ 86M DUAL BATTERY)	\$897
☐	60X	AUTOMATED EMERGENCY BRAKING (AEB) REMOVAL	N/C
☐	86K	PROGRAMMABLE ENGINE IDLE SHUTDOWN TIMER	\$228
☒	86M	DUAL BATTERIES	\$191
☒	43C	110V / 400W OUTLET (REQ 86M DUAL BATTERIES W/ 7.3L GAS)	\$160
☐	63C	AFT-AXLE FRAME EXTENSION (BEYOND WHEEL BASE) (REQ 145" OR 169" WHEEL BASE)	\$104
☒	67B	DUAL EXTRA HEAVY-DUTY ALTERNATOR	\$104
☐	47A	AMBULANCE PREP PACKAGE - LIMITED PRODUCTION	\$1,096
☐	47L	AMBULANCE PREP PACKAGE (SPECIAL EMISSIONS) (REQ 6.7L DIESEL) - LIMITED PRODUCTION	\$1,096
☐	47J	FIRE RESCUE PREP PACKAGE (SPECIAL EMISSIONS) (REQ 6.7L DIESEL) - LIMITED PRODUCTION	\$1,096

FLEET OPTIONS			
☐	927	CUSTOMIZABLE SPEED LIMIT (75 MPH)	\$73
☐	91G	360-DEGREE DUAL BEACON LED WARNING STROBES - AMBER-WHITE (REQ 59H CHMSL)	\$592
☐	91S	360-DEGREE DUAL BEACON LED WARNING STROBES - AMBER (REQ 59H CHMSL)	\$592
COLOR			
☒	UM	AGATE BLACK METALLIC	N/C
☐	M7	CARBONZIED GRAY METALLIC	N/C
☐	DR	AVALANCHE	N/C
☐	Z1	OXFORD WHITE	N/C
☐	PQ	RACE RED	N/C
☐	GR	GREEN (FLEET)	\$600
☐	W6	GREEN GEM (FLEET)	\$600
☐	MB	ORANGE (FLEET)	\$600
☐	BY	SCHOOL BUS YELLOW (FLEET)	\$600
☐	E4	VERMILLION RED (FLEET)	\$600
☐	AT	YELLOW (FLEET)	\$600
☐	95K	SCHOOL BUS YELLOW W/ AGATE BLACK HOOD (FLEET)	\$150
DELIVERY/REGISTRATION			
☒	DELIVERY	DELIVERY TO CUSTOMER / UPFIT	\$175
☒	PLATE	TITLE & PLATES	\$173
☐	WARRANTY	FORD PROTECT PREMIUMCARE SERVICE CONTRACT 5 YEAR/100K MILES	\$1,250



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Resolution To Extend a Professional Services Agreement for Construction Inspection Services for 2025 Resurfacing

Department: Public Works & Engineering

Item Description:

The Department of Public Works and Engineering historically has utilized a consulting firm to assist with construction inspection for the Annual Street Resurfacing and Street Reconstruction Programs. Due to staffing transitions and the significant number of current and upcoming capital projects, a consultant was enlisted to fully oversee the Annual Street Reconstruction program. However, for both programs, staff will continue to perform required engineering activities necessary to supplement these construction inspection services.

On March 6, 2023, the Village Board awarded a one-year Engineering Services Professional Services Agreement for construction inspection for the Resurfacing Program to Doland Engineering, LLC, of Palatine, IL. The firm was also requested to provide rates for similar services in FY2024 through FY2026. Upon satisfactory completion of the first year of work, the Village has the option to extend the agreement for an additional three years at the hourly rates provided in the proposal.

Per contract terms, this would be the second of three possible one-year extensions. Staff has been pleased with this firm's performance and recommends the one-year agreement extension with a 3.66% increase in hourly rates, as submitted in the proposal. The term of the extension would conclude in December 2025.

Funding is included in the current budget Capital Projects Fund account number 401-7101-550300 (ST9008) (\$125,000).

RECOMMENDATION

It is recommended that the Village Board approve the Resolution for a one-year agreement extension for Construction Inspection Services for the 2025 Resurfacing Program, to Doland Engineering, LLC of Palatine, Illinois, at the not-to-exceed amount of \$125,000 and authorize the execution the necessary documents.

ATTACHMENTS:

1. Resolution Approving Construction Inspection Services extension with attachments

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING THE RENEWAL OF A PROFESSIONAL SERVICES AGREEMENT
FOR CONSTRUCTION INSPECTION SERVICES
WITH DOLAND ENGINEERING, LLC, OF PALATINE, ILLINOIS

WHEREAS, on March 6, 2023, the Village entered into a contract with Doland Engineering, LLC, of Palatine, Illinois ("*Contractor*"), for Construction Inspection Services ("*Contract*"); and

WHEREAS, the Contract allows the Village and the Contractor to renew the Contract for up to three additional one-year terms; and

WHEREAS, on February 5, 2024, the Village Board of Trustees approved the renewal of the Contract for the first additional one-year term, for calendar year 2024; and

WHEREAS, the Village and the Contractor now desire to renew the Contract for the second one-year term, for calendar year 2025; and

WHEREAS, the Village President and Board of Trustees have determined that renewing the Contract with the Contractor will serve and be in the best interest of the Village and its residents;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF RENEWAL. The Board of Trustees hereby approves the renewal of the Contract in substantially the form attached to this Resolution as Exhibit A ("*Renewal*"), and in a final form and substance acceptable to the Village Manager and Village Attorney.

SECTION 3. EXECUTION OF RENEWAL. The Village Manager and the Village Clerk are hereby authorized and directed to execute and attest, on behalf of the Village, the Renewal of the Contract upon receipt by the Village Clerk of at least one original copy of the Renewal of the Contract executed by Contractor; provided, however, that if the executed copy of the Renewal of the Contract is not received by the Village Clerk within 30 days after the effective date of this Resolution, then this authority to execute and attest will, at the option of the President and Board of Trustees, be null and void.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

[SIGNATURE PAGE FOLLOWS]

AYES:

NAYS:

PASSED AND APPROVED THIS ____ day of _____, 20__.

Village President

ATTEST:

Village Clerk

EXHIBIT A

RENEWAL

**EXTENSION TO THE AGREEMENT
ENTERED INTO BY AND BETWEEN
THE VILLAGE OF ARLINGTON HEIGHTS AND DOLAND ENGINEERING, LLC**

THIS EXTENSION TO THE ORIGINAL AGREEMENT made on this 3rd day of February, 2025 (hereinafter referred to as the "Extension") to the Agreement entered into on or about March 6, 2023 by and between the Village of Arlington Heights (hereinafter referred to as the "Village") whose principal place of business is located at 33 S. Arlington Heights Road, Arlington Heights, Illinois 60005 and Doland Engineering (hereinafter referred to as the "Company") whose principle place of business is located at 334 E. Colfax Street, Suite #C, Palatine, Illinois 60067 (collectively referred to herein as the "Parties") hereby amends the agreement and extends the services of Construction Inspection Services through December 31, 2025.

NOW, THEREFORE, for and in consideration of the mutual covenants herein contained, the Parties hereto extend the agreement as follows:

1. The Parties agree to extend the term of the original Agreement for an additional period of time to terminate on December 31, 2025 unless mutually agreed to by the Parties to extend the Agreement for an additional period of time.
2. The Parties agree that the Doland Engineering LLC's revised fee schedule is attached hereto.
3. Unless expressly modified in this Extension, the provisions of the Agreement remain in full force and effect. If any provision of this Extension conflicts with the Agreement, the terms and conditions of the Extension shall control.
4. This Extension shall become effective as of the date of the last signature below, this Extension may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument, and any signatures to counterparts may be delivered by facsimile or other electronic transmission and shall have the same force and effect as original signatures.

IN WITNESS WHEREOF, the parties have executed this Extension to the Agreement as of the day and year first above written.

Village of Arlington Heights: _____ (Company)

Village President

ATTEST:

Village Clerk

Prequalification & DBE Certificate

We are documented with the State of Illinois related to our professional services prequalification and DBE certification as follows:

- Prequalification from the Illinois Department of Transportation. Our firm is prequalified in the following services:
 - Special Services - Surveying
 - Special Services - Sanitary
 - Highways - Roads and Streets
 - Special Services - Construction Inspection
- Disadvantage Business Enterprise (DBE). Our firm is certified by the State of Illinois to meet the DBE eligibility standards.

CONSTRUCTION INSPECTOR STAFFING RATES

Year		Street Resurfacing Program	
		Construction Inspector Hourly Rate	Construction Inspector Overtime Rate
2023		\$105	\$105
2024		\$109	\$109
2025		\$113	\$113
2026		\$117	\$117



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Resolution Approving the Purchase of Safety Glass Barriers
Department: Public Works & Engineering

Item Description:

In an effort to continually monitor and improve the safety of Staff, Public Works evaluated several glass partition barriers for the Health & Human Services and Customer Services areas at Village Hall. These Departments continue to experience difficult situations where safety is potentially compromised.

Staff obtained numerous quotes and determined the safety glass from 3F Corporation of Alsip, Illinois, proposal was the most advantageous. The proposed glass provides a visually appealing physical barrier between Staff and customers, while allowing voice and noise transference. Since it is not wall to wall glass, Staff is proposing to evaluate feedback from Staff after installation to see if other areas can benefit from this enhancement.

Although, this is not a budgeted item, Staff believes the Building Maintenance Account No. 10-7101-521110 can accommodate this expense.

Staff is requesting to waive public bidding and to approve the contract with 3F Corporation for the fabrication and installation of safety glass partitions at an amount not-to-exceed \$27,000 per the attached Resolution.

RECOMMENDATION

It is recommended that the Village Board waive public bidding and approve the Resolution to award 3F Corporation of Alsip, Illinois, the contract for the furnishing and installation of safety glass barriers, and authorize the execution of the necessary documents.

ATTACHMENTS:

1. Resolution Approving Contract for Safety Glass Barriers - resolution and attachments

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING THE AWARD OF A CONTRACT
FOR SAFETY GLASS BARRIERS AT VILLAGE HALL
TO 3F CORPORATION OF ALSIP, ILLINOIS

WHEREAS, the Village of Arlington Heights is a home rule municipality in accordance with Article VII, Section 6(a) of the Constitution of the State of Illinois of 1970; and

WHEREAS, in January 2025, Village Staff identified the need for safety glass barriers in the Health Department and Customer Services area at Village Hall; and

WHEREAS, 3F Corporation of Alsip, Illinois (“*Contractor*”) provided a quote to the Village for furnishing and installing of safety glass barriers in the amount \$27,000 (“*Contract*”); and

WHEREAS, the Village President and Board of Trustees have determined that it is appropriate to waive the advertising requirements set forth in Section 8-9-1 of the Illinois Municipal Code, 65 ILCS 5/8-9-1, for the Contract for furnishing and installing safety glass barriers; and

WHEREAS, the Village President and Board of Trustees have determined that entering into the Contract with Contractor for the safety glass barriers will serve and be in the best interest of the Village and its employees;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. WAIVER OF COMPETITIVE BIDDING. The advertising and bidding requirements for the Contract for the furnishing and installation of safety glass barriers are hereby waived in accordance with Section 8-9-1 of the Illinois Municipal Code and the home rule powers of the Village.

SECTION 3. APPROVAL OF CONTRACT. The Board of Trustees hereby approves the Contract by and between the Village and Contractor, in substantially the form attached to this Resolution as Exhibit A, and in a final form and substance acceptable to the Village Manager and Village Attorney.

SECTION 4. EXECUTION OF CONTRACT. The Village Manager and the Village Clerk are hereby authorized and directed to execute and attest, on behalf of the Village, the Contract upon receipt by the Village Clerk of at least one original copy of the Contract executed by Contractor; provided, however, that if the executed copy of the Contract is not received by the Village Clerk within 30 days after the effective date of this Resolution, then this authority to execute and attest will, at the option of the President and Board of Trustees, be null and void.

SECTION 5. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ____ day of _____, 2025.

Village President

ATTEST:

Village Clerk

EXHIBIT A
CONTRACT



To: Village of Arlington Heights	Date: 1/22/2025
Attn: John Giannetti	Project: Village of Arlington Heights Arlington Heights, IL
Phone: 847-368-5860	Addenda: None
Fax:	Sent Via: Email
	Valid: 30Days
	# Pages (inc. Cover): 1

Second Revised Glazing at Service Windows Proposal

We propose to furnish/install the following:

Glazing: Qty. (19) Brushed Stainless Posts & Qty. (15) pcs. 3/8" Clear Temp Lami Polished Glass @ Information Booth & Health locations.

- * All work performed by Union labor.
- * Attachment plates for rigidity at post locations are included.
- * Our bid assumes that immediately adjacent substrate will be adequate for structural attachment.

Total Proposal: \$27,000

Note: Authorized signature is required prior to the performance of any work.

Authorized Signature: _____

Printed Name: _____

Date: _____

Not included: Tax, testing, patching, material storage, final cleaning, bonds, permits, demo, & dumpsters.

Copy:		Brian Kane Architectural Sales
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VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Resolution for Purchase of Fire Hose

Department: Fire

Item Description:

Background

Over the past 3 years, through our annual hose replacement process, the Fire Department has shifted direction to Tru ID hose, manufactured by Key Fire Hose. This hose has a more rigid construction with true inner diameters, allowing for a greater volume of water at lower pressures without kinking issues. By reducing the amount of pressure needed to move water through the hose, the Tru ID hoses allow our firefighters to operate more effectively during structure fires. Additionally, these hoses are lighter and easier to maneuver, allowing for better operational flexibility, quicker deployment, and enhanced firefighter safety during fast-paced, high-stress responses.

The current Fire Department operating budget only provides sufficient funding to replace hose lengths on an as-needed basis. A portion of the hose inventory is replaced annually on a rotating basis, along with any lengths that fail during the required annual strength testing process. For this reason, the Fire Department currently maintains several brands of hose. In order to maintain operational consistency, our preference is to replace all of the remaining non-Tru ID hose lengths at one time. This ensures that deployable equipment at a fire scene will be the same regardless of which firefighting apparatus arrives. It also provides for uniformity during training and ensures all members are properly instructed on equipment that will be utilized at an active fire event. As such, members of command staff submitted a request to the Foreign Fire Insurance Tax Board (FFITB) for consideration to replace the entirety of our remaining fire hose inventory. This request was approved at the December 2, 2024 FFITB meeting.

The Fire Department is requesting approval to purchase 117 lengths of Tru ID hose in diameter sizes of 1 ¾" and 2 ½", which would replace the entirety of the remaining multi-brand hose inventory, at a total cost of \$27,705.00. Key Fire Hose products are available from a local fire service distributor, W.S. Darley, of Itasca, IL. W.S. Darley holds a current national joint purchasing contract for fire service equipment through Sourcewell. Sourcewell is a government service cooperative that issues national, competitive solicitations for use by other government units. The Village is an

active member of Sourcewell.

Recommendation

It is recommended that the Fire Department seek Village Board approval to purchase 117 lengths of Tru ID hose in 1 ¾" and 2 ½" diameters, from W.S. Darley of Itasca, IL through the established joint purchasing contract #020124-WSD available for use through the Village's participation in Sourcewell Cooperative Purchasing, in the amount of \$27,705.00 from the Foreign Fire Tax Insurance Fund. Sufficient funding is available for this purchase in the FY2025 Foreign Fire Tax Insurance Fund, account No. 227-3701-550150.

ATTACHMENTS:

1. Darley Quote-AHFD TRU ID Hose
2. Resolution-Hose Purchase



 **W.S. Darley & Company**
Chris Herling
325 Spring Lake Dr.
Itasca, IL 60143
847-514-7395 Cell

Quote

DATE
11/4/2024

Quote Date
11/4/2024

Reference

FOB
Shipping Point

PAYMENT TERMS
NET 15 Days

BILL TO:

Arlington Hts Fire
1150 N Arlington Hts Rd
Arlington Hts IL 60004

SHIP TO:

Arlington Hts Fire
1150 N Arlington Hts Rd
Arlington Hts IL 60004

ITEM	QUANTITY	DESCRIPTION	EACH		AMOUNT
1	16	DP25-TRU- KEY TRU ID 2.5" X 50' WHITE	\$245.00		\$3,920.00
2	12	DP25-TRU- KEY TRU ID 2,5" X 50 RED	\$245.00		\$2,940.00
3	16	DP25-TRU- KEY TRU ID 2,5" X 50' YELLOW	\$245.00		\$3,920.00
4	5	DP25-TRU- KEY TRU ID 2.5" X 50' ORANGE	\$245.00		\$1,225.00
5	8	DP25-TRU- KEY TRU ID 2.5" X 50' TAN	\$245.00		\$1,960.00
6	44	DP25-TRU- KEY TRU ID 2,5" X 50 BLUE	\$245.00		\$10,780.00
7	16	DP17-TRU - KEY TRU ID 1.75 X 50' RED	\$185.00		\$2,960.00
				Freight	included
				Total	\$27,705.00

COMMENTS:

- Special Terms:**
1. Customer P.O. constitute acceptance of these terms
2. Quote pricing per Sourcewell Contract #020124-WSD

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE PURCHASE OF
FIRE HOSES FROM W.S. DARLEY, OF ITASCA, ILLINOIS

WHEREAS, Article VII, Section 10 of the Constitution of the State of Illinois, and the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq., authorize and encourage intergovernmental cooperation; and

WHEREAS, the Village is eligible to participate in Sourcewell Cooperative Purchasing (“*Sourcewell*”), a purchasing cooperative that permits local governments to purchase and lease commodities and services according to contracts negotiated by Sourcewell, resulting in significant savings for the Village; and

WHEREAS, the Fire Department has identified the need to procure Fire Hoses (“*Fire Hoses*”); and

WHEREAS, Sourcewell sought bids for the award of the contract for the purchase of the Fire Hoses (“*Purchase Contract*”); and

WHEREAS, Sourcewell identified W.S. Darley, of Itasca, Illinois (“*W.S. Darley*”), as the low responsible bidder for the Purchase Contract; and

WHEREAS, the Village now desires to purchase Fire Hoses, in a total amount not to exceed \$27,705.00; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to purchase the Fire Hoses from W.S. Darley, in a total amount not to exceed \$27,705.00, in accordance with Sourcewell and the Purchase Contract;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF PURCHASE. The President and Board of Trustees hereby approve the purchase by the Village of Arlington Heights of Fire Hoses from W.S. Darley, in a total amount not to exceed \$27,705.00, in accordance with Sourcewell and the Purchase Contract, is hereby approved.

SECTION 3. EXECUTION OF REQUIRED DOCUMENTATION. The Village Manager and the Village Clerk are hereby authorized to execute and attest, on behalf of the Village, all documents necessary to complete the purchase authorized pursuant to Section 2 of this Resolution.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ____ day of _____, 20__.

Village President

ATTEST:

Village Clerk



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Appointment of Melissa Gallagher to the Board of Trustees of the Firefighters' Pension Fund, term ending April 30, 2026

Department: Integrated Services

Item Description:

Appointment of Melissa Gallagher to the Board of Trustees of the Firefighters' Pension Fund, term ending April 30, 2026. Melissa replaces Tom Kuehne following his retirement as Finance Director and Treasurer.

ATTACHMENTS:

None



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Adoption of an ordinance amending Chapter 13 of the Village Code to increase the number of Class N(r) liquor licenses to one, and recommendation that the Liquor Commissioner issue one Class A license and one Class N license to Krish Arlington 1 LLC dba Courtyard Chicago Arlington Heights located at 100 W. Algonquin Road

Department: Integrated Services

Item Description:

Recommendation that the Liquor Commissioner issue a Class A and Class N(r) liquor license to Krish Arlington 1 LLC dba Courtyard Chicago Arlington Heights located at 100 W. Algonquin Road. Due to the concurrent surrender of a Class A liquor license from Wildfish, the total number of Class A licenses does not need to increase and is available to be assigned to Courtyard Chicago Arlington Heights.

Class N Liquor Licenses will increase via ordinance from 0 total Class N licenses to 1 total Class N license upon favorable recommendation from the February 3, 2025, Committee of the Whole meeting. The new Class N liquor license will have the (r) designation to allow package retail sale of alcoholic liquor to hotel guests, and will be issued to Krish Arlington 1 LLC dba Courtyard Chicago Arlington Heights located at 100 W. Algonquin Road.

ATTACHMENTS:

1. N Increase

AN ORDINANCE AMENDING CHAPTER 13 OF THE
ARLINGTON HEIGHTS MUNICIPAL CODE

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS:

SECTION ONE: That Section 13-502 of the Arlington Heights Municipal Code, pertaining to the number of liquor licenses, is hereby amended to increase the number of Class "N" liquor licenses authorized, with the amended entry for Class "N" licenses to read as follows:

CLASS OF LICENSE	ANNUAL LICENSE FEE	NUMBER OF LICENSES AUTHORIZED
N (Retail Only)	\$1,000.00	1

SECTION TWO: This Ordinance shall be in full force and effect from and after its passage and approval in the manner provided by law.

AYES:

NAYS:

PASSED AND APPROVED this 3rd day of February, 2025.

Village President

ATTEST:

Village Clerk



VILLAGE OF
ARLINGTON HEIGHTS
— INC. 1887 —

Village Board of Trustees
2/3/2025

Item: Appointment of Tripp Turchik to the Special Events
Commission, term ending April 30, 2025

Department: Integrated Services

Item Description:

Appointment of Tripp Turchik to the Special Events Commission, term
ending April 30, 2025

ATTACHMENTS:

None



VILLAGE OF
ARLINGTON HEIGHTS
INC. 1887

**Village Board of Trustees
2/3/2025**

Item: Chase Bank - 585 E. Palatine Rd. / Sign Variation - DC#24-071

Department: Planning & Community Development

Item Description:

Requested Action

1. A variation from Chapter 30, Section 30-402.a, Number, to allow four wall signs where only two wall signs are allowed.
2. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the west wall of the building, where 0 sf is allowed.
3. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the south wall of the building, where 0 sf is allowed.

Recommendation

A public meeting was held by the Design Commission on December 10, 2024, where Commissioner Seyer moved and Commissioner Fitzgerald seconded, a motion to recommend to the Village Board of Trustees, approval of the following sign variations for Chase Bank at 585 E. Palatine Road:

1. A variation from Chapter 30, Section 30-402.a, Number, to allow four wall signs where only two wall signs are allowed.
2. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the west wall of the building, where 0 sf is allowed.
3. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the south wall of the building, where 0 sf is allowed.

This recommendation is subject to compliance with the plans dated 11/27/24 received on 12/3/24, Federal, State, and Village Codes, regulations, and policies, and the issuance of all required permits, and the following conditions:

1. This review deals with architectural design only and should not be construed to be an approval of, or to have any other impact on, any other

zoning and/or land use issues or decisions that stem from zoning, building, signage or any other reviews. In addition to the normal technical review, permit drawings will be reviewed for consistency with the Design Commission and any other Commission or Board approval conditions. It is the architect/homeowner/builder's responsibility to comply with the Design Commission approval and ensure that building permit plans comply with all zoning code, building permit and signage requirements.

Roll Call Vote: Commissioners Seyer, Fitzgerald, Kingsley and Acting Chair Eckhardt voted in favor. Motion carried.

ATTACHMENTS:

1. DC Staff Report
2. DC Minutes 12-10-24
3. Photos of Surroundings
4. Exhibits

STAFF DESIGN COMMISSION REPORT

PROJECT INFORMATION:

Project Name: Chase Bank
Project Address: 585 E. Palatine Rd.
Prepared By: Steve Hautzinger

PETITIONER INFORMATION:

DC Number: 24-071
Petitioner Name: Andrew Milz
Petitioner Address: Olympik Signs
1130 Garfield St.
Lombard, IL 60148
Meeting Date: December 10, 2024

Date Prepared: December 3, 2024

Requested Action:

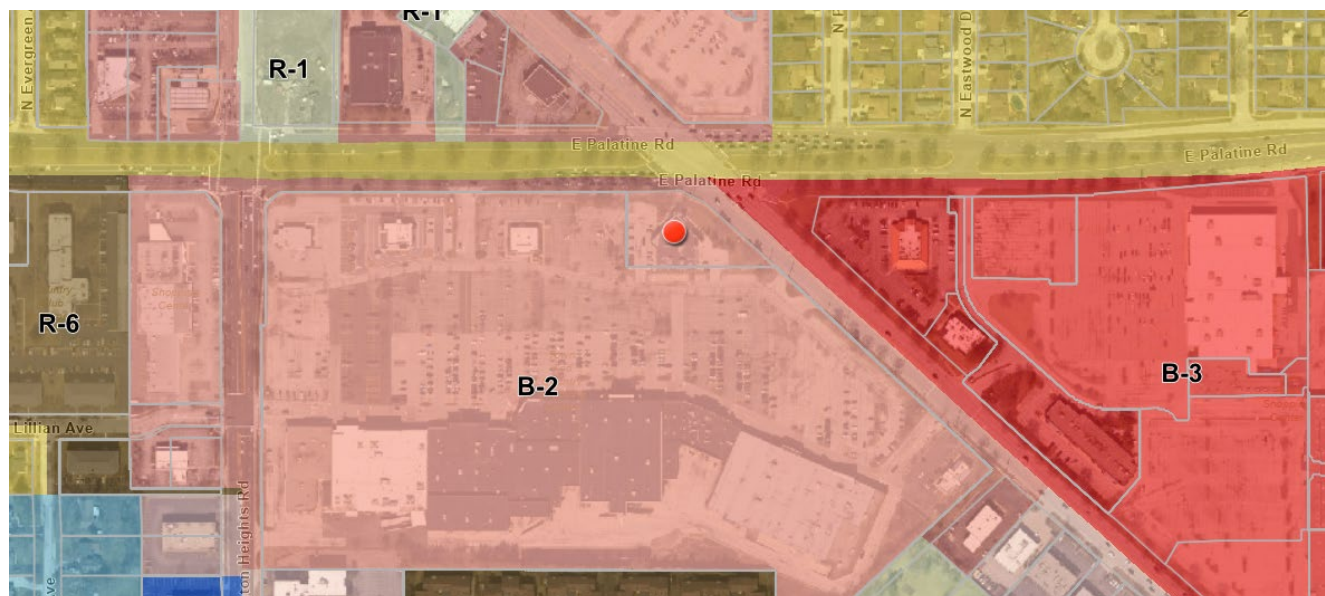
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3. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the south wall of the building, where 0 sf is allowed.

ANALYSIS:

The subject design is being forwarded to the Design Commission for review pursuant to Chapter 6 of the Municipal Code, specifically Section 6-501 (e)(1), which states that the Design Commission "shall review all Plan Commission, Zoning Board of Appeals, Building Permit and Sign Permit applications for new construction and those improvements which affect the architectural design of the building, site improvements or signage to determine whether it meets with the standards, requirements and purposes of the Design Guidelines and Chapter 30, Sign Regulations."

Summary:

Chase Bank is planning to construct a new building at the former location of the AT&T store at the corner of Palatine Road and Rand Road at the Town & Country Shopping Center. The property is located in a B-2, General Business Zoning District. The new building is proposed to have a total of four wall signs. Per code, one wall sign is allowed per street frontage, so only two wall signs are allowed in this location. Two wall signs are proposed on the north elevation, one facing each street, and two wall signs are proposed on the building entry tower which is located on the south side of the building, facing the parking area. Chase Bank will also have one code-compliant ground sign facing Rand Road. The petitioner is seeking a sign variation to allow four wall signs where only two wall signs are allowed.



Zoning Map

Surrounding Land Uses:

Direction	Existing Zoning	Existing Use
Subject Property	B-2, General Business Zoning District	Chase Bank (formerly AT&T store)
North	B-2, General Business Zoning District	Bank of America Northpoint Shopping Center
South	B-2, General Business Zoning District	Town & Country Shopping Center
East	B-3, General Service, Wholesale and Motor Vehicle District	Olive Garden Restaurant Southpoint Shopping Center
West	B-2, General Business Zoning District	Verizon store

Table 1: Proposed Wall Signs Summary:

SIGN	ELEVATION / FRONTAGE	SIGNABLE AREA	25% OF SIGNABLE AREA	SIGN SIZE	REMARKS
Sign B01. "CHASE" with logo	West Elevation / no street frontage	151 sf	38 sf	29.7 sf	Variation required due to no street frontage.
Sign B02. "CHASE" with logo	North Elevation / Palatine Road	255 sf	64 sf	29.7 sf	Complies with code.
Sign B03. "CHASE" with logo	Northeast Elevation / Rand Road	546 sf	82 sf (15%)	29.7 sf	Complies with code.
Sign B05. "CHASE" with logo	South Elevation / no street frontage	143 sf	36 sf	29.7 sf	Variation required due to no street frontage.
TOTAL				118.8 sf	

Sign Variation Criteria:

The Village Sign Code, Chapter 30, Section 30-901 sets out the criteria for granting a sign variation.

- a. *That the particular difficulty or peculiar hardship is not self-created by the Petitioner.*
- b. *That the granting of said variation will not create a traffic hazard, a depreciation of nearby property values or otherwise be detrimental to the public health, safety, morals and welfare;*
- c. *That the variation will serve to relieve the Petitioner from a difficulty attributable to the location, topography, circumstances on nearby properties or other peculiar hardship, and will not merely serve to provide the Petitioner with a competitive advantage over similar businesses;*
- d. *That the variation will not alter the essential character of the locality;*
- e. *That the Petitioner's business cannot reasonably function under the standards of this chapter.*

The petitioner has submitted a letter stating that the proposal for four wall signs is due to the building's unique architectural design and orientation, with the main entrance on the west without street frontage, and the south entrance facing the parking lot approach to the building. The petitioner feels that the four wall signs are needed to help their customers find their location due to the outlot location within the shopping center. They also noted that the previous AT&T store in this location had a total of five wall signs.

Staff Comments:

Staff agrees that this site and the building orientation are unique, with no driveways directly into the site and all vehicular access routed through the main shopping center parking lot. The wall signs on the west and south walls of the building entrance will help to guide customers that are approaching through the parking lot from different directions.

For these same reasons, the former AT&T store in this location received variations to allow five wall signs, and the adjacent Verizon store recently received variations to allow four wall signs.

Overall, the proposed wall signs are nicely designed, they work well with the architectural design of the building. Staff does not object to the requested variations.

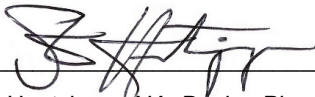
RECOMMENDATION

It is recommended that the Design Commission recommend **approval** to the Village Board for the following sign variations for *Chase Bank* at 585 E. Palatine Road:

1. A variation from Chapter 30, Section 30-402.a, Number, to allow four wall signs where only two wall signs are allowed.
2. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the west wall of the building, where 0 sf is allowed.
3. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the south wall of the building, where 0 sf is allowed.

This recommendation is subject to compliance with the plans dated 11/27/24 received on 12/3/24, Federal, State, and Village Codes, regulations, and policies, and the issuance of all required permits, and the following conditions:

1. This review deals with architectural design only and should not be construed to be an approval of, or to have any other impact on, any other zoning and/or land use issues or decisions that stem from zoning, building, signage or any other reviews. In addition to the normal technical review, permit drawings will be reviewed for consistency with the Design Commission and any other Commission or Board approval conditions. It is the architect/homeowner/builder's responsibility to comply with the Design Commission approval and ensure that building permit plans comply with all zoning code, building permit and signage requirements.



December 3, 2024

Steve Hautzinger AIA, Design Planner
Department of Planning & Community Development

c: Michael Lysicatos, Assistant Director of Planning and Community Development, Petitioner, DC File 24-071

APPROVED

MINUTES OF THE VILLAGE OF ARLINGTON HEIGHTS DESIGN COMMISSION

ARLINGTON HEIGHTS MUNICIPAL BUILDING
33 S. ARLINGTON HEIGHTS RD.
DECEMBER 10, 2024

Acting Chair Eckhardt called the meeting to order at 6:30 p.m.

Members Present: Ted Eckhardt, Acting Chair
Kirsten Kingsley
John Fitzgerald
Scott Seyer

Members Absent: Jonathan Kubow, Chair

Also Present: Michael Ciurej, Owner of 1021 N Stratford Rd
John Kramer, Arlington Heights Park District
Susan Rohner, Arlington Heights Park District
Jon Krissoff, Chase Bank for Chase Bank
Matt Pyter, Olympik Signs for Chase Bank
Amer Sassila, The HOH Group Inc. for Qargo Coffee
Steve Hautzinger, Planning Staff

REVIEW OF MEETING MINUTES FOR NOVEMBER 12, 2024

A MOTION WAS MADE BY COMMISSIONER FITZGERALD, SECONDED BY COMMISSIONER KINGSLEY, TO APPROVE THE MEETING MINUTES OF NOVEMBER 12, 2024. ALL WERE IN FAVOR. MOTION CARRIED.

ITEM 3. SIGN VARIATION REVIEW**DC# 24-071 – Chase Bank – 585 E. Palatine Rd.**

Jon Krissoff, representing *Chase Bank*, and **Matt Pyter**, representing *Olympik Signs*, were present on behalf of the project.

Mr. Hautzinger presented Staff comments. Chase Bank is planning to construct a new bank building at the former location of the AT&T store at the corner of Palatine Road and Rand Road at the Town & Country Shopping Center. The property is located in a B-2, General Business Zoning District. The new building is proposed to have a total of four wall signs. Per code, one wall sign is allowed per street frontage, so only two wall signs are allowed in this location. Two wall signs are proposed on the north elevation, one facing each street, and two wall signs are proposed on the building entry tower which is located on the south side of the building, facing the parking area. Chase Bank will also have one code-compliant ground sign facing Rand Road. The petitioner is seeking a sign variation to allow four wall signs where only two wall signs are allowed.

1. A variation from Chapter 30, Section 30-402.a, Number, to allow four wall signs where only two wall signs are allowed.
2. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the west wall of the building, where 0 sf is allowed.
3. A variation from Chapter 30, section 30-403.a Dimensions, to allow a 29.7 sf wall sign on the south wall of the building, where 0 sf is allowed.

The petitioner submitted a letter stating the proposal for four wall signs is due to the building's unique architectural design and orientation, with the main entrance on the west without street frontage, and the south entrance facing the parking lot approach to the building. The petitioner feels the four wall signs are needed to help customers find their location due to the outlot location within the shopping center. They also noted that the previous AT&T store in this location had a total of five wall signs.

Mr. Hautzinger said that Staff agrees that this site and the building orientation are unique, with no driveways directly into the site and all vehicular access routed through the main shopping center parking lot. The wall signs on the west and south walls of the building entrance will help to guide customers that are approaching through the parking lot from different directions. For these same reasons, the former AT&T store in this location received variations to allow five wall signs, and the adjacent Verizon store recently received variations to allow four wall signs.

Overall, the proposed wall signs for Chase Bank are nicely designed and work well with the architectural design of the building. Staff does not object to the requested variations and recommends approval as submitted.

Jon Krissoff said that Staff did a tremendous job with the presentation, and he was here to answer any questions the commissioners may have.

Acting Chair Eckhart asked if there was any public comment on the project and there was no response from the audience.

The commissioners summarized their comments. **Commissioner Seyer** understood the need for the signage and he asked for clarification about the monument signs included in the packet. **Mr. Hautzinger** clarified that in addition to the wall signs, the petitioner is proposing a new ground sign facing Rand Road and small directional signs at the driveways into the

parking lot, which are all code compliant and do not require variations. **Commissioner Seyer** agreed that this site and building are unique, and that clarity of the signage will only help vehicular circulation in this area. He felt the signs are tasteful and he is in favor of the signs. **Commissioners Kingsley and Fitzgerald** agreed as well. **Acting Chair Eckhardt** had nothing more to add and completely agreed with the signs.

A MOTION WAS MADE BY COMMISSIONER SEYER, SECONDED BY COMMISSIONER FITZGERALD, TO RECOMMEND TO THE VILLAGE BOARD OF TRUSTEES, APPROVAL OF THE FOLLOWING SIGN VARIATIONS FOR CHASE BANK AT 585 E. PALATINE ROAD, AS SUBMITTED:

- 1. A VARIATION FROM CHAPTER 30, SECTION 30-402.A, NUMBER, TO ALLOW FOUR WALL SIGNS WHERE ONLY TWO WALL SIGNS ARE ALLOWED.**
- 2. A VARIATION FROM CHAPTER 30, SECTION 30-403.A DIMENSIONS, TO ALLOW A 29.7 SF WALL SIGN ON THE WEST WALL OF THE BUILDING, WHERE 0 SF IS ALLOWED.**
- 3. A VARIATION FROM CHAPTER 30, SECTION 30-403.A DIMENSIONS, TO ALLOW A 29.7 SF WALL SIGN ON THE SOUTH WALL OF THE BUILDING, WHERE 0 SF IS ALLOWED.**

THIS RECOMMENDATION IS SUBJECT TO COMPLIANCE WITH THE PLANS DATED 11/27/24 AND RECEIVED ON 12/3/24, FEDERAL, STATE, AND VILLAGE CODES, REGULATIONS, AND POLICIES, AND THE ISSUANCE OF ALL REQUIRED PERMITS, AND THE FOLLOWING:

- 1. THIS REVIEW DEALS WITH ARCHITECTURAL DESIGN ONLY AND SHOULD NOT BE CONSTRUED TO BE AN APPROVAL OF, OR TO HAVE ANY OTHER IMPACT ON, ANY OTHER ZONING AND/OR LAND USE ISSUES OR DECISIONS THAT STEM FROM ZONING, BUILDING, SIGNAGE OR ANY OTHER REVIEWS. IN ADDITION TO THE NORMAL TECHNICAL REVIEW, PERMIT DRAWINGS WILL BE REVIEWED FOR CONSISTENCY WITH THE DESIGN COMMISSION AND ANY OTHER COMMISSION OR BOARD APPROVAL CONDITIONS. IT IS THE ARCHITECT/HOMEOWNER/BUILDER'S RESPONSIBILITY TO COMPLY WITH THE DESIGN COMMISSION APPROVAL AND ENSURE THAT BUILDING PERMIT PLANS COMPLY WITH ALL ZONING CODE, BUILDING PERMIT AND SIGNAGE REQUIREMENTS.**

**SEYER, AYE; FITZGERALD, AYE; KINGSLEY, AYE; ECKHARDT, AYE.
ALL WERE IN FAVOR. MOTION CARRIED.**



North View (Top) 1 of 2



North View (Top) 2 of 2



North West View



West View (Left) 1 of 2



West View (Left) 2 of 2



South West View



South View (Down) 1 of 2



South View (Down) 2 of 2



South East View



East View (Right) 1 of 2



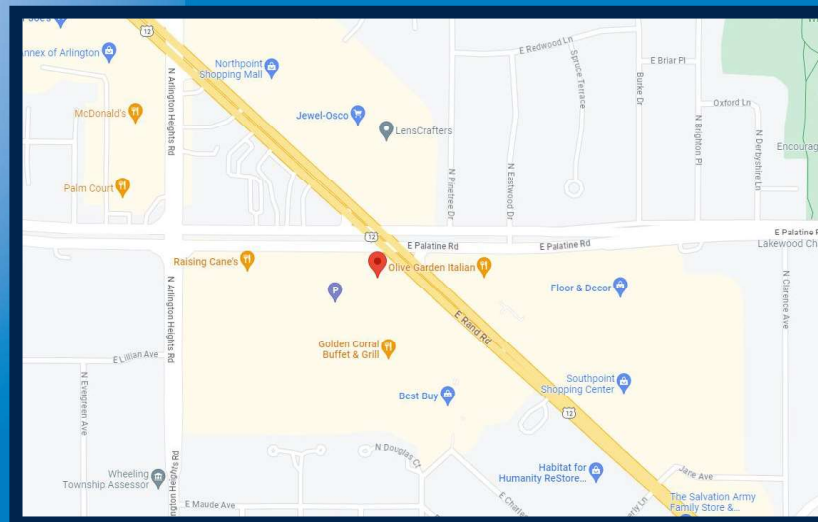
East View (Right) 2 of 2



North East View



#48100R003791
Arlington Rand
585 East Palatine Rd
Arlington Heights, IL 60004



REVISION NOTES:

R6: Detail Drawing - Updated site plan and adjusted pull-in location. - AS - 11/22/23
R8: Detail Drawing - A02 removed from scope of work, Site plan updated and G02 placement adjusted. - AS - 02/21/24
R10: Detail Drawing - B04 removed from scope, A03 updated to CAH-KTM-SIG-A03 - AS - 02/26/24
R12: Detail Drawing - T01 updated to Banner and T02 Banner added back to scope of work. - AS - 08/29/24
R14: Detail Drawing - Site plan, floor plan, South and North elevations updated. - AS - 11/27/24



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**JP Morgan Chase Bank
#48100R003791**

Arlington Rand
585 East Palatine Rd
Arlington Heights, IL 60004

Initial Date: 11/09/23
Salesperson: Arthur Navarro
Coordinator: Tracey L Pichierri
Designer: ASena
Scale: As noted

CUSTOMER APPROVAL

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Drawing Number: 23-01701

Project ID: CHASE_48100R003791_1

Revision: R14 - 11.27.24

Page: 1

SECTION 30-902 Standards

a. The particular difficulty or peculiar hardship is not self-created by the petitioner;

Response: Chase Bank's particular hardship is not self-created and is due to the buildings unique architectural features & building orientation as the buildings elevations contour to the adjacent road ways and is a single tenant occupancy.

The Main Entrance is located on the West Elevation and does not have street frontage therefore per current sign code is not permitted to have a business identifying wall sign as identified as B01 on rendering site plan.

Additionally, the South Elevation is a prominent identifier for the parking lot entrance to customers locating & visiting the bank and does not have street front frontage due to the out-lot building placement within the overall shopping center.

b. The granting of the variation shall not create a traffic hazard, a depreciation of nearby property values or otherwise be detrimental to the public health, safety, morals and welfare

Response: The proposed sign package consisting of four (4) wall signs, will not create a traffic hazard but instead will allow visibility to vehicular traffic within the mall, so drivers can easily spot Chase Bank's location without looking around for it & possibly being distracted which could cause an accident, also if allowed the four (4) signs will not cause a depreciation of nearby property values or otherwise be detrimental to the public health, safety, morals and welfare. The proposed signage location seeks to allow Chase Bank visible signage on four (4) elevations. The previous tenant AT&T had a total of five (5) wall signs – see attached supplemental photos.

c. The variation will serve to relieve the applicant from a difficulty attributable to the location, topography, circumstances on nearby properties or other peculiar hardship; and not merely serve to provide the application with a competitive advantage over similar businesses

Response: Chase Bank wants to improve their visual identify within the community so their brick-and-mortar location will continue to be successful in the Village of Arlington heights and the proposed sign package is not to have a competitive advantage over similar businesses. The hardship has to do with the building elevations and the street frontages those elevations face as well as being an out lot in a shopping mall complex.

d. The variation will not later the essential character of the locality

Response: The proposed sign package will be in harmony and scale with the architecture of the building in this development and will be consistent with other signs in the general vicinity. The sign will be constructed with the highest quality materials. The proposed signage seeks to maintain the stylistic approach that Chase Bank prides themselves on along with being consistent with the harmonious nature of the building along with the character of the locality.

e. The applicants business cannot reasonably function under the standards of this Chapter

Response: The proposed sign locations seek to allow Chase Bank a visible sign on all four (4) elevations showing where this company is located within the Arlington Heights community. The signage will comply with all other applicable requirements of the Arlington Heights sign code.



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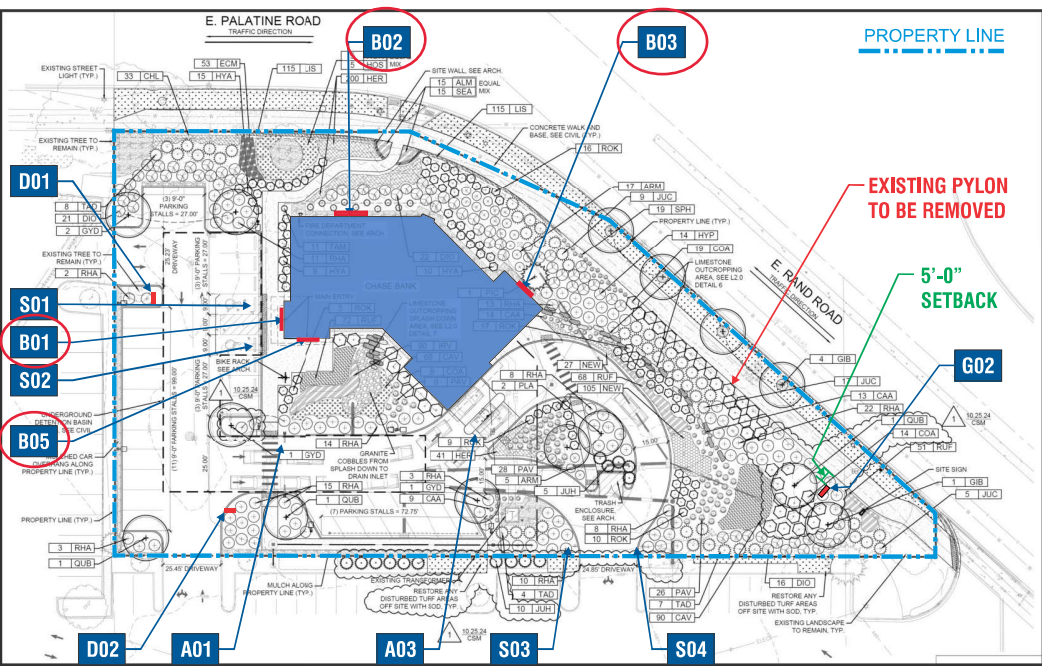
Project ID: CHASE_48100R003791_1

Revision: R14 - 11.27.24

Enlarged Aerial Site

Page: 3

SITE PLAN
SCALE: 1"=55'-0"



EXTERIOR SCOPE OF WORK				
SIGN ID	ELEVATION	SIGN TYPE	DESCRIPTION	SQFT
G01	--	NONE	REMOVED FROM SCOPE OF WORK	--
G02	--	P-32	Double-Faced Illuminated Pylon	32
B01	WEST	LIF-WBO-24	24" White Channel Letters and Logo	36.9
B02	NORTH	LIF-WBO-24	24" White Channel Letters and Logo	36.9
B03	NORTHEAST	LIF-WBO-24	24" White Channel Letters and Logo	36.9
B04	--	NONE	REMOVED FROM SCOPE OF WORK	--
B05	SOUTH	LIF-WBO-24	24" White Channel Letters and Logo	36.9
B06	--	NONE	REMOVED FROM SCOPE OF WORK	--
A01	--	HB-U-R	Headache Bar - Right	--
A02	--	NONE	Removed from scope of work	--
A03	--	CAN-ATM-SIG-NP	ATM Signature Canopy - No Pedestal	--
D01	--	D-2-RE	Non-Illuminated Directional Sign	--
D02	--	D-2-RE	Non-Illuminated Directional Sign	--
S01	--	TC-P-ADA-IL-V-RE	Post Mount Handicap Stall Sign - Van Accessible	--
S02	--	TC-P-ADA-IL-RE	Post Mount Handicap Stall Sign	--
S03	--	TC-P-DNE-DOT-RE	Post Mount - Do Not Enter Sign - DOT Standard	--
S04	--	TC-P-DNE-DOT-RE	Post Mount - Do Not Enter Sign - DOT Standard	--
T01	--	CHA-TEMP-CS-60X144-BAN	Temporary Construction Site Banner - LOCATION TBV ON SITE	--
T02	--	CHA-TEMP-CS-60X144-BAN	Temporary Construction Site Banner - LOCATION TBV ON SITE	--

← PROPOSED WALL SIGNS

SQUARE FOOTAGE	
PROPOSED SQFT:	179.6



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Drawing Number: 23-01701

Project ID: CHASE_48100R003791_1

Revision: R14 - 11.27.24

Sign Legend / Site Plan

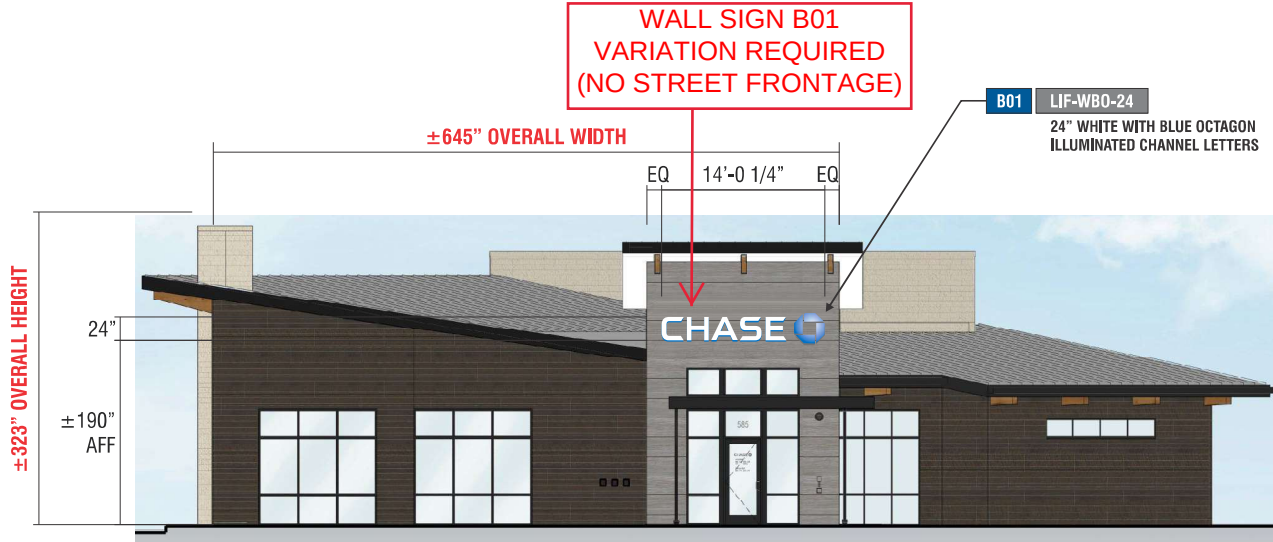
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ELEVATION/MATERIALS - ALLOWABLE

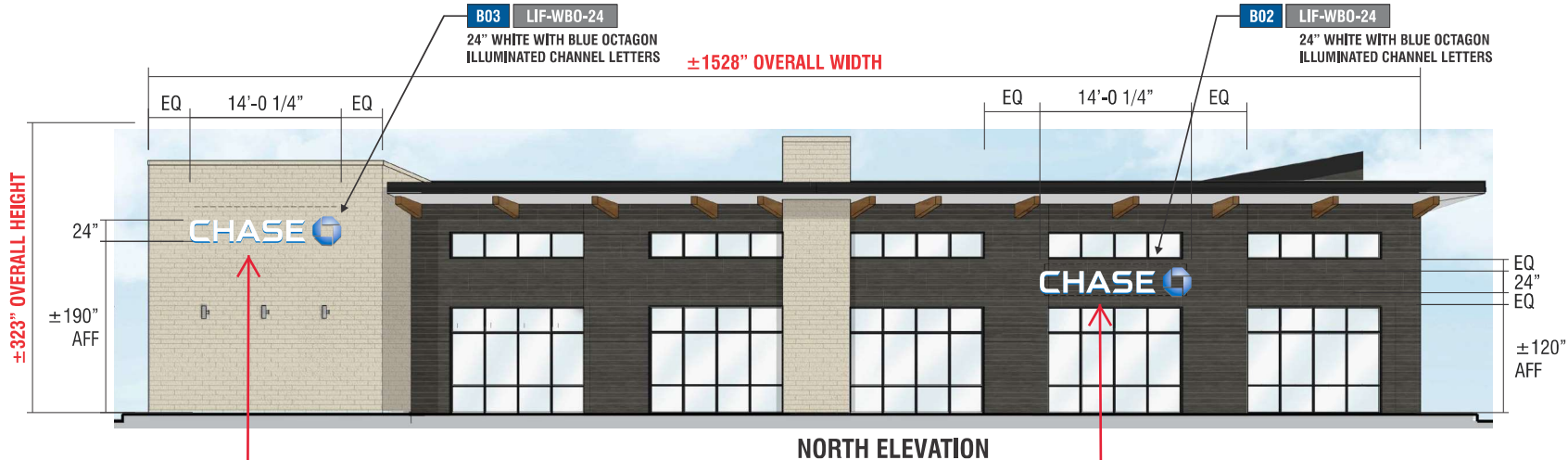
SCALE: 3/32" = 1'-0"



SIGNAGE OVERVIEW - ALLOWED



WEST ELEVATION



NORTH ELEVATION

WALL SIGN B03
ALLOWED BY CODE
(RAND ROAD FRONTAGE)

WALL SIGN B02
ALLOWED BY CODE
(PALATINE ROAD FRONTAGE)



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Exterior Elevations

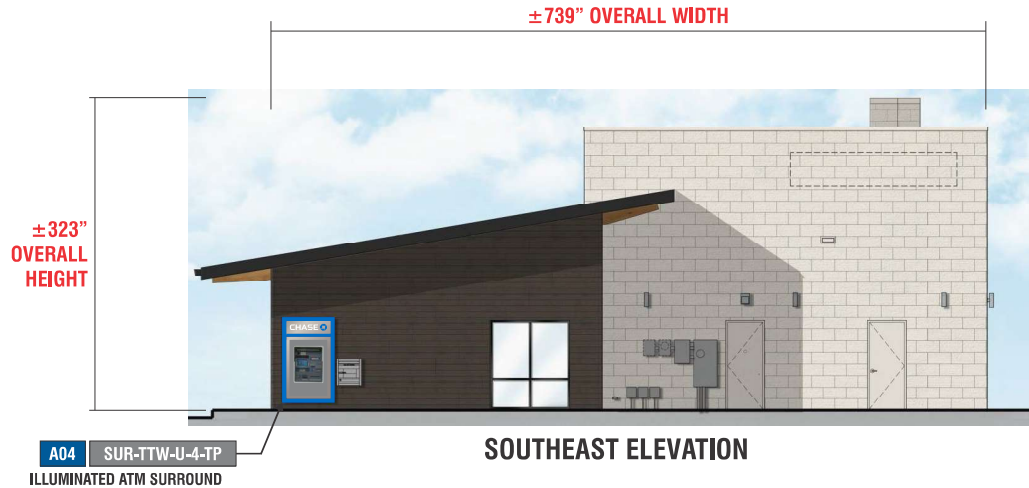
Page: 11

ELEVATION/MATERIALS - ALLOWABLE

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



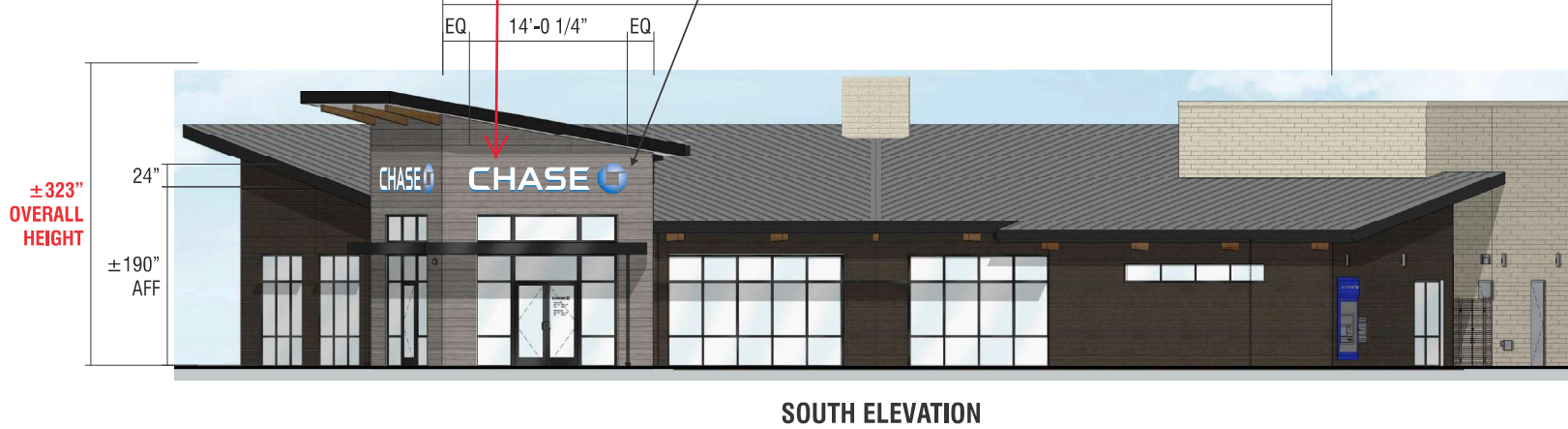
SIGNAGE OVERVIEW - ALLOWED



WALL SIGN B05
VARIATION REQUIRED
(NO STREET FRONTAGE)

B05 LIF-WB0-24 ALIGN TO SIGN B01
24" WHITE WITH BLUE OCTAGON
ILLUMINATED CHANNEL LETTERS

±1048" OVERALL WIDTH



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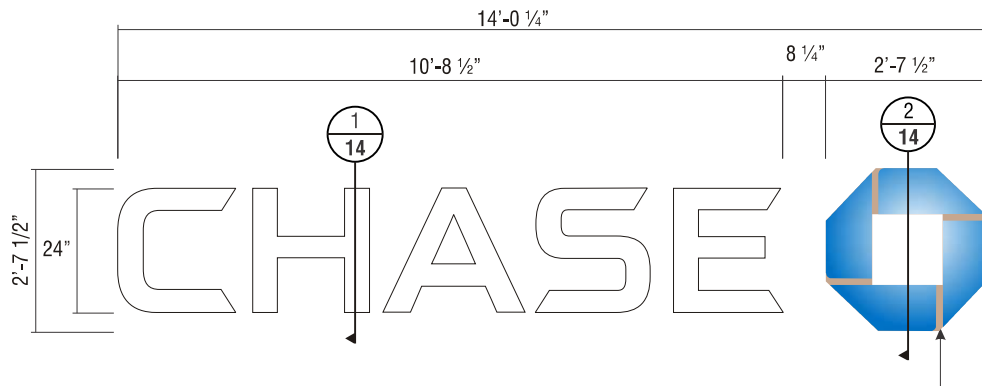
Drawing Number: 23-01701

Project ID: CHASE_48100R003791_1

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Exterior Elevations

Page: 12



FRONT VIEW SCALE : 1/2" = 1'-0"

PAINT OCTAGON BRIDGE
TO MATCH WALL COLOR
B01 - SW 7045 INTELLECTUAL GRAY
B02 - SW7020 BLACK FOX
B03 & B04 - SW 6119 ANTIQUE WHITE

B01 **B02** **B03** **B05**

SIGN TYPE LIF-WB0-24

MANUFACTURE AND INSTALL FOUR (4) SETS OF ILLUMINATED LETTERS & LOGO w/PLEX FACES & RETURNS

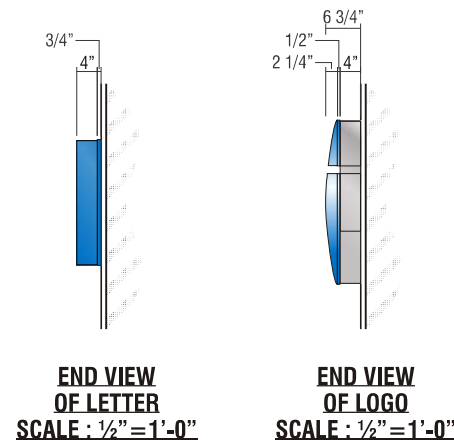
LETTERS:

FACE: .177" ARISTECH #7328 P-95 WHITE PLEX (MATTE SIDE TO BE 1ST SURFACE) CHEM WELDED TO RETURNS
RETURNS: 0.118" x 4" DEEP ARISTECH #6046 BLUE WITH 3635-70 DIFFUSER VINYL ON 2ND (INTERIOR) SURFACE.
BACKS: .080" ALUM BACK WITH 3/4" x .080" OUTSIDE ALUM RETURN AND 1/2" x 1/8" ALUM ANGLE CLIPS
ON INTERIOR OF LETTER FOR FACE ATTACHMENT
PAINT: EXTERIOR PAINTED MATTHEWS MP-00366 CHASE BLUE SEMI-GLOSS FINISH (60-70 UNITS) AND INTERIOR
PAINTED SPRAY-LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT.
ILLUMINATION: SLOAN PRISM #701269-7WSJ1-MB WHITE LEDs AND SLOAN POWER SUPPLY
REQUIRED FOR PROPER EVEN ILLUMINATION.

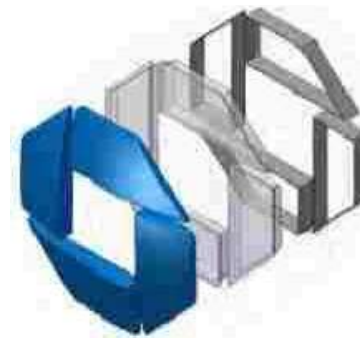
LOGO:

BACKS: .080" ALUM BACK WITH STACK WELDED 4" x .080" ALUM RETURNS.
LOGO CAN FACE: .080" ALUM BRIDGE ELEMENTS WELDED TO INSIDE & OUTSIDE RETURNS
PLEX FACE: .118" THERMO FORMED ARISTECH #6046 BLUE LOGO ELEMENTS CHEM WELDED TO
3/4" CLEAR PLEX 2ND SURFACE FACES.
PAINT: EXTERIOR PAINT MATTHEWS "CHASE NICKEL" #MP-19891 GLOSS FINISH AND INTERIOR PAINTED
SPRAY-LAT STAR BRITE WHITE LIGHT ENHANCEMENT PAINT.
ILLUMINATION: SLOAN PRISM #701269-BLSJ1-MB BLUE LEDs AND SLOAN POWER SUPPLY AS
REQUIRED FOR PROPER EVEN ILLUMINATION

ELECTRICAL REQUIREMENTS FOR LED ILLUMINATION
As required by standard #2161, Signtech Electrical Advertising, Inc., exclusively uses secondary Ground fault-Interrupted (GFI) transformers.
Each Sign MUST have: - A dedicated branch circuit
- Three wires: Line, Ground, and Neutral.
- Wire Size: Min 12 GA THHN Copper Wire.
NOTE: The gauge of the wire is dictated by the length of the run & amperage as per NEC Article 600.
- The ground wire must be continuous & go from the sign to the panelboard ground bus.



**END VIEW
OF LETTER**
SCALE : 1/2" = 1'-0"



3D VIEW OF OCTAGON

**ALL EXPOSED FASTENER HEADS
SHALL BE PAINTED TO MATCH
THE EXTERIOR SURFACE FINISH**



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JP Morgan Chase Bank
#48100R003791

Arlington Rand
585 East Palatine Rd
Arlington Heights, IL 60004

Initial Date: 11/09/23
Salesperson: Arthur Navarro
Coordinator: Tracey L Pichierri
Designer: ASena
Scale: As noted

CUSTOMER APPROVAL

Customer Signature _____ Date _____
COPY, COLORS & SIZES

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RESPONSIBILITY OF OTHERS!

Customer Signature _____ Date _____
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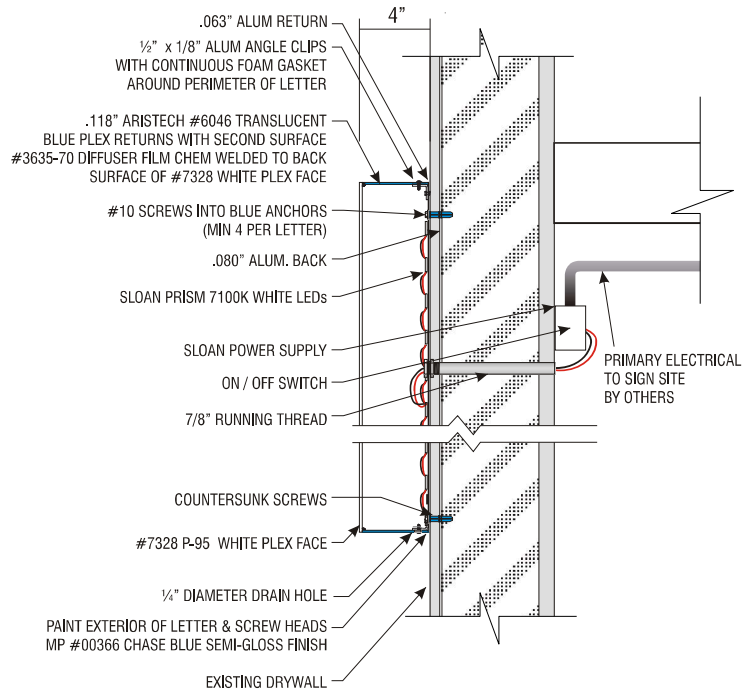
Drawing Number: 23-01701

Project ID: CHASE_48100R003791_1

Revision: R14 - 11.27.24

Page: 13

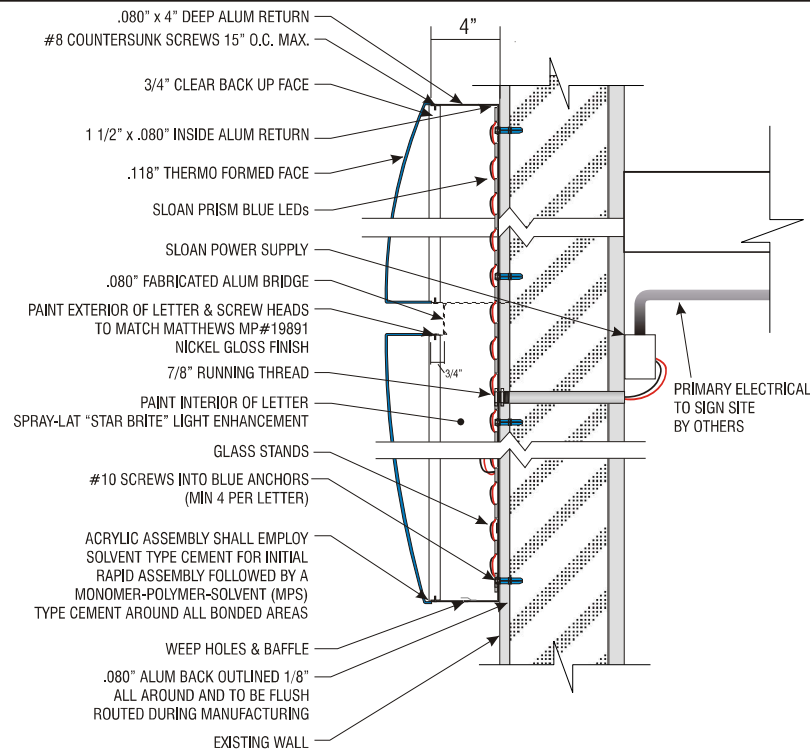
**ATTACHMENT METHOD TO BE VERIFIED BY INSTALLER
AT THE FIELD DEPENDING ON WALL TYPE AND ACCESS.**



1
14

PLEX LETTER SECTION DETAIL

SCALE: 1 1/2" = 1'-0"



2
14

LOGO SECTION DETAIL

SCALE: 1 1/2" = 1'-0"



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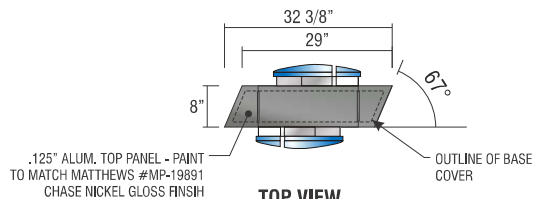
Project ID: CHASE_48100R003791_1

Revision: R14 - 11.27.24

Material List

1. **Petitioner Name:** Matt Pyter & Andrew Milz (Olympik Signs, Inc.)
2. **Date:** 9/24/24
3. **Project:** Chase Bank – Sign Variation
4. **Location:** 585 East Palatine Rd., Arlington Heights, IL 60004

Signage: Aluminum internally illuminated channel letters.
Chase Letters to consist of White plex faces with #6046 blue sides and 3635-70 diffuser vinyl on 2nd (interior surface).
Logo to consist of #6046 blue faces adhered to ¾” thick clear plex along with aluminum sides.

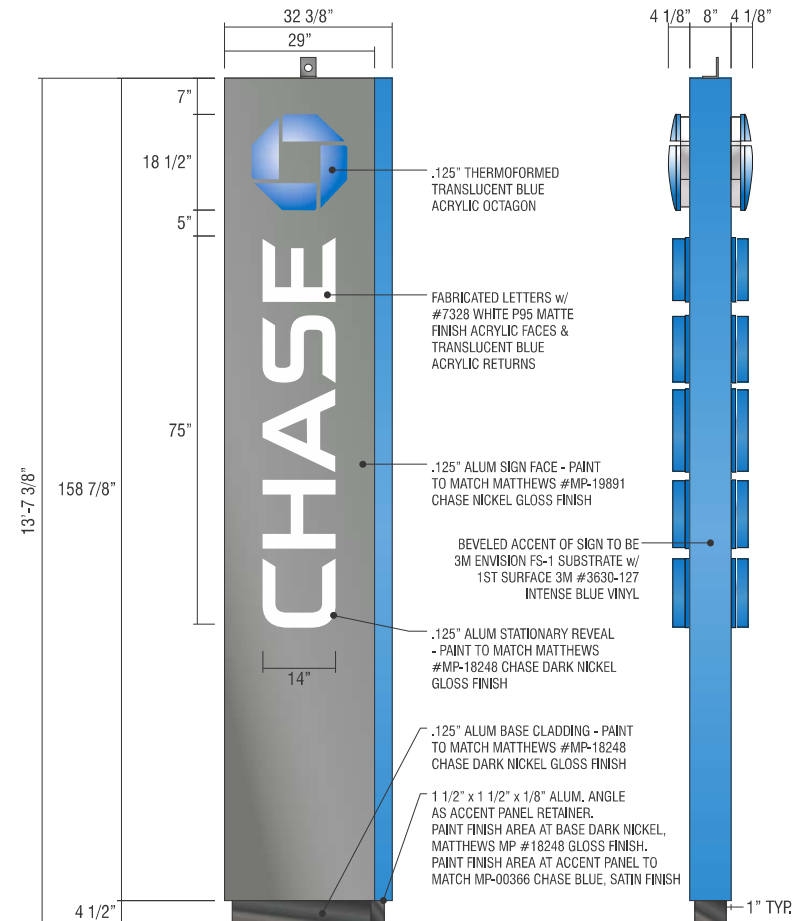


TOP VIEW

ALL EXPOSED PAINTED SURFACES SHALL BE COATED WITH MATTHEWS® #282-208SP VOC GLOSS CLEAR, WITH MINIMUM 2 MILS DRY FILM THICKNESS (DFT) PER MATTHEWS APPLICATION SPECIFICATIONS.

General Notes:

- Design is based on a 90/115 mph, 3 second gust wind design per IBC 2009/2012, Category II, Exposure C.
- Spread foundation is based on a presumptive safe vertical soil bearing pressure minimum of 2000 psf. Caisson foundation is based on a presumptive safe lateral soil bearing pressure minimum of 150 psf per foot of depth. Isolated lateral bearing footings subject to short-term lateral loads and not adversely affected by a 1/2" motion at grade are permitted to be designed using twice the tabulated value of the corresponding soil class.
- A soil report was not provided. Foundation analysis assumes Soil Classification 4. Allowable bearing pressure should be verified prior to placement of concrete. In the event that the stated requirements are not met and conditions appear deleterious, cease and secure excavation and immediately contact JP MORGAN CHASE.
- Foundation shall not be placed at the top of, or on the side of a slope exceeding 3:1, or adjacent to a fill slope unless re-evaluated by a competent Professional Engineer. Do not place foundation in fill.
- Concrete shall be mixed to attain a minimum 28 day compressive strength of 3000 psi.
- Steel reinforcing bars shall conform to ASTM A615, Grade 60 with deformations in accordance with ASTM A305. Welding of reinforcing bars is prohibited.
- All voids between column baseplate and foundation surface shall be completely filled with high-strength non-shrink grout. Anchor bolts shall meet ASTM F1554 Grade 36. Exposed surfaces shall be galvanized or coated to prevent corrosion.
- All support members shall be free from defects. Steel tube shall meet ASTM A500 Grade B with a minimum yield strength of 46,000 psi. Steel angle, channel and plate shall meet ASTM A36. Extruded aluminum shapes shall be 6061-T6 alloy. Aluminum sheet shall be 3003-H14 alloy. Aluminum plate shall be 5052-H34 alloy.
- Welds shall be made with E70xx electrodes for steel & with a 4000 series filler for aluminum by persons qualified in accordance with AWS standards within the past two years.
- All structural bolts shall conform to ASTM A325, and be zinc coated unless noted otherwise. When used with structural bolts, heavy hex nuts shall conform to ASTM A563, and washers shall conform to ASTM F436. Tighten all high strength bolts using the Turn-of-Nut method unless noted otherwise.
- JP Morgan Chase will not be responsible for the safety on this job site before, during or after installation of this structure. It is the responsibility of the contractors and installers to ensure that the installation and erection of this structure is performed using methods that are in full compliance with OSHA regulations.
- Any deviation from this design or from any part of this drawing, including the General Notes, without prior written consent from JP Morgan Chase voids this drawing in its entirety.
- This design is prototypical and should not be used for site specific applications unless reviewed and deemed suitable for use at that site by a competent Professional Engineer.



SCALE: 1/2" = 1'-0"



**NOT TO SCALE
EXISTING MONUMENT TO BE REMOVE**

G02

SIGN TYPE P-32

MANUFACTURE AND INSTALL ONE (1) INTERNALLY ILLUMINATED D/F MONUMENT SIGN

**ALL EXPOSED FASTENER HEADS
SHALL BE PAINTED TO MATCH
THE EXTERIOR CABINET FINISH**

**GRAPHICS DEPICTED ARE FOR
ILLUSTRATIVE PURPOSES ONLY!
USE ONLY APPROVED ARTWORK
FOR PRODUCTION.**



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**JP Morgan Chase Bank
#48100R003791**

Arlington Rand
585 East Palatine Rd
Arlington Heights, IL 60004

Initial Date: 11/09/23
Salesperson: Arthur Navarro
Coordinator: Tracey L Pichierri
Designer: ASena
Scale: As noted

CUSTOMER APPROVAL

Customer Signature _____ Date _____
COPY, COLORS & SIZES

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electrical to sign location -
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Customer Signature _____ Date _____

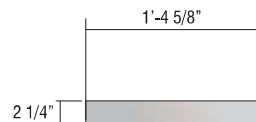
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Drawing Number: 23-01701

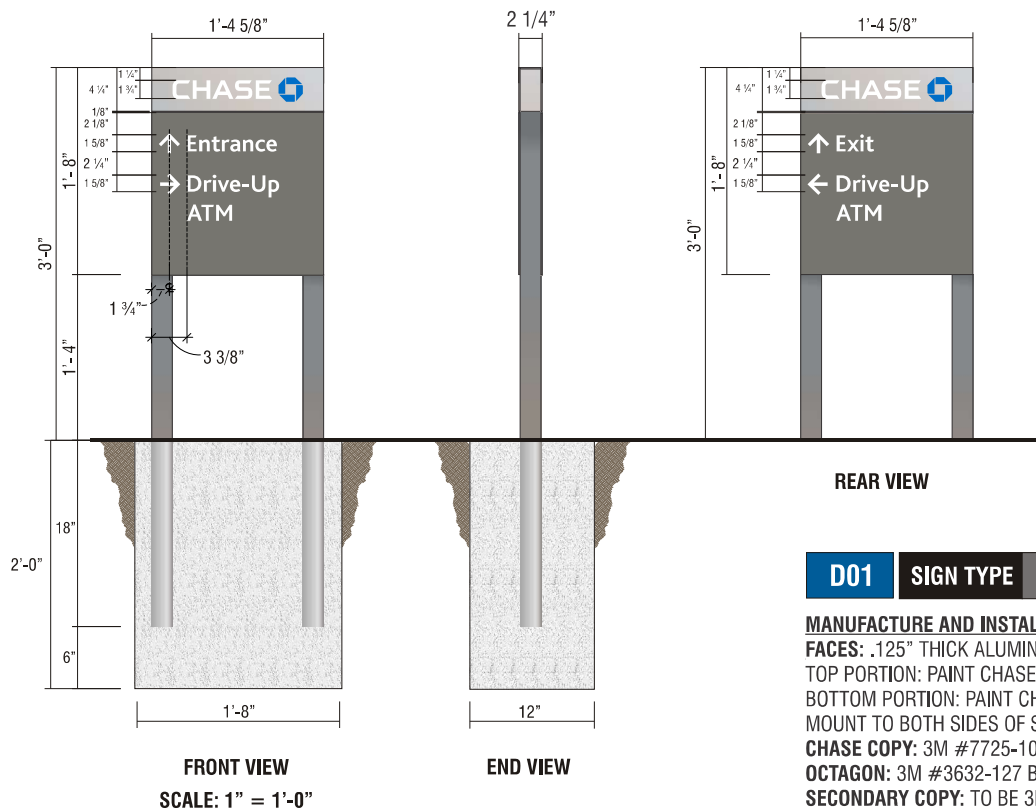
Project ID: CHASE_48100R003791_1

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Page: 5



TOP VIEW SCALE: 1" = 1'-0"



REAR VIEW

D01 SIGN TYPE D-2-RE

MANUFACTURE AND INSTALL ONE (1) NON-ILLUMINATED DIRECTIONAL SIGN

FACES: .125" THICK ALUMINUM FACES, QUARTER ROUND EDGES.

TOP PORTION: PAINT CHASE NICKEL #19891, GLOSS FINISH.

BOTTOM PORTION: PAINT CHASE DARK NICKEL #18248, GLOSS FINISH.

MOUNT TO BOTH SIDES OF SQUARE TUBE POSTS.

CHASE COPY: 3M #7725-10 WHITE VINYL.

OCTAGON: 3M #3632-127 BLUE OVER #7725-10 WHITE.

SECONDARY COPY: TO BE 3M SCOTCHLITE #680-10 REFLECTIVE WHITE VINYL.

POSTS: 2" X 2" X .125" ALUMINUM RECTANGLE TUBE POSTS.

TOP PORTION: CONTINUOUS BAND TO BE PAINTED NICKEL #19891, GLOSS FINISH.

BOTTOM PORTION: PAINT CHASE DARK NICKEL #18248, GLOSS FINISH.

TOP CAP: .125" ALUMINUM PAINTED CHASE NICKEL #19891, GLOSS FINISH.

BASE: .125" SHEARED 1/4 ROUNDED ALL EDGES WELDED TO POST, PAINTED CHASE DARK NICKLE #18248 GLOSS FINISH.



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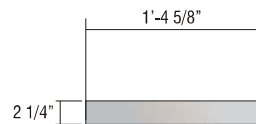
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Drawing Number: 23-01701

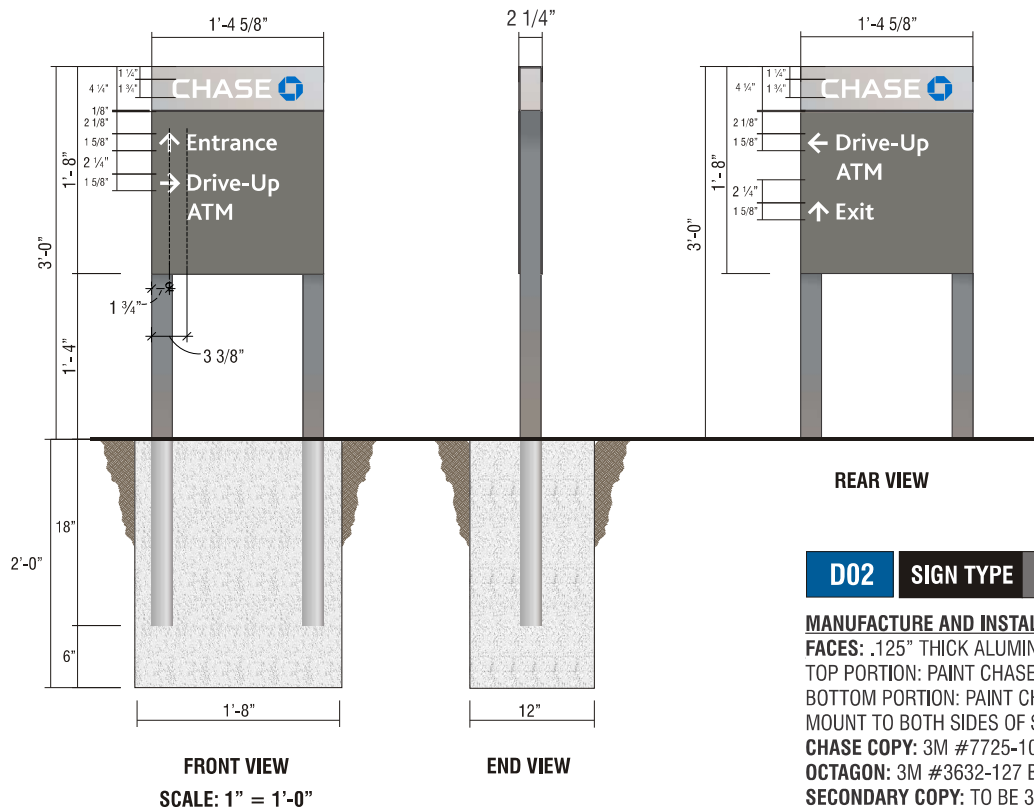
Project ID: CHASE_48100R003791_1

Revision: R14 - 11.27.24

Page: 28



TOP VIEW SCALE: 1" = 1'-0"



D02 SIGN TYPE D-2-RE

MANUFACTURE AND INSTALL ONE (1) NON-ILLUMINATED DIRECTIONAL SIGN

FACES: .125" THICK ALUMINUM FACES, QUARTER ROUND EDGES.

TOP PORTION: PAINT CHASE NICKEL #19891, GLOSS FINISH.

BOTTOM PORTION: PAINT CHASE DARK NICKEL #18248, GLOSS FINISH.

MOUNT TO BOTH SIDES OF SQUARE TUBE POSTS.

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OCTAGON: 3M #3632-127 BLUE OVER #7725-10 WHITE.

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Drawing Number: 23-01701

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Revision: R14 - 11.27.24

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VILLAGE OF
ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
2/3/2025

Item: Urban Air at Arlington Plaza - 30 W. Rand Rd. - PC#24-017
Special Use Permit for Amusement, Large & Special Use
Permit for Restaurant with Variations

Department: Planning & Community Development

Item Description:

Requested Action

1. Special Use Permit to allow a Large Amusement Facility on the subject property.
2. Special Use Permit to allow a Restaurant on the subject property.

Variations Required

1. Chapter 28, Section 10.4-4, to reduce the parking requirement from 1,225 parking stalls to 1,139 parking stalls.

Recommendation

A public hearing was held by the Plan Commission on January 22, 2025, where Commissioner Drost moved and Commissioner Green seconded:

A motion to recommend to the Village Board of Trustees, Approval of PC#24-017, a Special Use Permit to allow a large amusement facility on the subject property, a Special Use Permit to allow a restaurant on the subject property, and the following Variations:

1. A Variation from Chapter 28, Section 6.12-1 to waive the requirement of a traffic study;
2. A Variation from Chapter 28, Section 10.4-4 to reduce the parking requirement from 1,146 parking spaces to 1,139 parking spaces.

This recommendation is subject to resolution of the following:

1. The Petitioner shall obtain a liquor license for any alcohol to be served on the premises.
2. The Petitioner shall provide interior sound proofing if noise complaints occur within the shopping center or on adjacent properties at the discretion

of the Village.

3. The Petitioner shall comply with all federal, state and Village codes, regulations and policies.

Roll Call Vote: Commissioners Dawson, Drost, Ennes, Green, Jensen, Lorenzini, Schurtz, Sigalos, and Chair Cherwin voted in favor. Motion carried.

ATTACHMENTS:

1. PC Staff Report 1/22/25
2. PC Minutes 1/22/25 - DRAFT
3. Aerial
4. Justification for SUP and Variations
5. Narrative
6. ALTA Survey
7. Market Study
8. Parking Study
9. Preliminary Construction Drawings
10. Round 1 Comments_Urban Air at Arlington Plaza
11. Round 2 Comments_Urban Air at Arlington Plaza
12. Petitioner Response



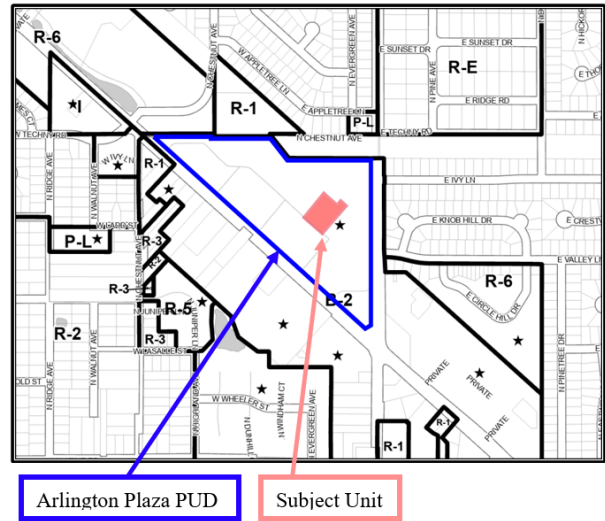
VILLAGE OF ARLINGTON HEIGHTS STAFF DEVELOPMENT COMMITTEE REPORT

PC File Number: PC 24-017
Project Title: Urban Air at Arlington Plaza
Address: 30 W Rand Rd
PIN: 03-17-300-006

To: Plan Commission
Prepared By: Dan Osoba, Planner I
Meeting Date: January 22, 2025
Date Prepared: January 15, 2025

Petitioner: Kayleigh Rollins
 Senior Project Manager
Address: 1245 Humbracht Cir.
 Bartlett, IL 60103

Existing Zoning: B-2: General Business District
Comprehensive Plan: Commercial



SURROUNDING LAND USES

Direction	Existing Zoning	Existing Use	Comprehensive Plan
North	R-1, One Family Dwelling District R-3, One Family Dwelling District R-6, Multi-Family Dwelling District	Commonwealth Edison Utility Lines, Crescent Place Multi-family apartments	Parks, Moderate Density Multi-Family
South	B-2, General Business District	Annex of Arlington & various commercial uses	Commercial
East	R-3, One Family Dwelling District R-6, Multi-Family Dwelling District B-2, General Business District	SF Residential Homes, Two-family home, Northpoint Shopping Center	Single-Family Detached, Offices Only, Commercial
West	B-2, General Business District	Arlington Performance Center and various commercial uses	Commercial

Requested Action:

1. Special Use Permit to allow a Large Amusement Facility on the subject property.
2. Special Use Permit to allow a Restaurant on the subject property.

Variations Required:

1. Chapter 28, Section 10.4-4, to reduce the parking requirement from 1,225 parking stalls to 1,139 parking stalls.

Project Background:

The subject property is part of the Arlington Plaza Shopping Center, an approximately 28-acre shopping center located at the northeast intersection of Rand Road and Arlington Heights Road. The 93,050 square foot subject unit is vacant and is the former home to Burlington Coat Factory. The shopping center has multiple points of vehicular access, including two full access signalized intersections along Rand Road, two additional right-in/right-out access points on Rand Road, and another Rand Road access point that allows full ingress but is restricted to right-only egress. On the Arlington Heights Road side, the subject property includes one signalized full access intersection and one non-signalized full access intersection.

Urban Air is proposing to lease approximately 67,000 square-feet of the former Burlington Coat factory space within Arlington Plaza, which would be divided to create two separate units. The remaining second unit would be 26,435 square feet and remain unleased at this time. Headquartered in Texas, with multiple locations across the nation, Urban Air is an indoor adventure park and family recreation center that provides a venue for entertainment and physical recreation, primarily geared towards children and young adults. They have several existing locations in the Chicagoland area (Naperville, St. Charles, Crystal Lake, Bloomingdale, North Riverside), and additional locations opening soon (Vernon Hills, Glenview). The facility would provide a wide mix of activities, including the following:

- Go Karts
- Laser Tag
- Trampoline area
- Arcades and Virtual Reality area
- Climbing Walls and Ropes Course
- Bumper Cars
- A café/restaurant and seating area
- 14 party rooms

Alcohol sales would be available for adults in designated areas. Initially there would be approximately total 50 employees, with peak shift including around 25 employees. The park will operate on an open-access basis, welcoming walk-in visitors and offering various membership packages for frequent guests. Reservations will be available for party rooms and certain high-demand attractions. An on-site café is also proposed to include concessions such as pizza, burgers, and soft drinks. The proposed hours of operation are Monday through Thursday 4:00 PM to 9:00 PM; Friday 10:00 AM to 9:00 PM; and Saturday 12:00 PM to 8:00 PM.

The subject property is part of the Arlington Plaza PUD, which was originally approved in 1970. This PUD includes the four larger multi-tenant buildings to the rear of the main parking areas, as well as four outlot buildings along Rand Road (Nostimo's Greek Kitchen, Arby's, vacant Olson Rug building, Village Bank & Trust). Parking is shared amongst the PUD, with a total of 1,139 parking spaces available to the businesses within.

Zoning and Comprehensive Plan

The subject property is zoned B-2, General Business District, which only allows "restaurants" and "amusement facilities, large" through the issuance of a Special Use Permit. The site is classified as Commercial on the Comprehensive Plan and the proposed usage is compatible with this designation as well as the surrounding commercial development context of Arlington Plaza.

Special Use Permits shall only be granted when they conform to the three criteria of approval as outlined within the Zoning Ordinance. In order to demonstrate conformance to these standards, the petitioner has provided a written justification to the following criteria:

- 1. That said special use is deemed necessary for the public convenience at this location.**
- 2. That such case will not, under the circumstances of the particular case, be detrimental to the health, safety, morals or general welfare of persons residing or working in the vicinity.**
- 3. That the proposed use will comply with the regulations and conditions specified in this ordinance for such use, and with the stipulations and conditions made a part of the authorization granted by the Village Board of Trustees.**

Staff reviewed the petitioner's provided justification for Special Use Permits as well as the requested market study and coordinated with the petitioner to provide further information on the 26,435 square-

foot remainder space. Staff agrees with the petitioner's justification for Special Use Permits as the use offers a unique adventure park and destination for the surrounding community, making it necessary for public convenience at this location. The remaining 26,435 square-foot space has been evaluated in the market study to demonstrate the viability of the space. The market study postulates that a fitness facility, such as racquetball, fitness center or similar could occupy the 70-foot wide space to target the active adult demographic, which represents 65% of Arlington Heights' population. Other possible uses could include splitting the long, linear vacant space into smaller tenants. Such smaller uses may include beauty salons, health or wellness facilities, martial arts studios, tutoring, or smaller gymnasiums. Staff has reviewed the market study and found that the remainder space has been thoroughly evaluated and remains a viable leasable tenant space(s). The petitioner has provided information including a parking study, market study, and business operations plan to determine that the use will not be a detriment to the health, safety, morals, or general welfare of persons living or working in the vicinity. Lastly, the petitioner has indicated Urban Air is dedicated to maintaining full compliance with all local and state regulations, with the exception of the parking variation request (see the Parking Section below).

Building

The petitioner has indicated that no exterior improvements are included with this petition. Signage will be submitted under a separate building permit application.

Since food service and alcohol will be provided, the facility will need to obtain a liquor license and comply with all Health Department requirements for food service. A condition of approval is recommended by the SDC to that effect.

Site Plan and Landscaping

The petitioner has not identified any site alterations as part of the proposed Special Use Permit application. Staff evaluated the condition of the parking lot and determined that repairs, resurfacing, or restriping is not needed at this time. Several sections of the parking lot have been resurfaced and striped recently and the remainder of the parking lot is in good condition. Additionally, staff evaluated the existing site landscaping to ensure that it conforms to all code requirements and found that no landscaping improvements were required at this time.

Traffic and Parking

Per section 6.12-1 of Chapter 28 of the Municipal Code, any Special Use Permit application over 5,000 square feet in floor area and located along a Major Arterial (such as Rand Road) must submit a traffic and parking study from a certified Traffic Engineer that assesses access (location, design, and Level of Service), on-site circulation, parking, trip generation, and impacts to adjacent roadways. Given that the Arlington Plaza shopping center contains multiple points of signalized full access to major arterials, the Staff Development Committee is accepting of the variation request to waive the requirement of a traffic study. A parking study was provided with the Plan Commission petition and reviewed in conjunction with a parking variation request.

Per Code, a total of 1,146 parking stalls are required within the PUD upon occupancy of Urban Air within the subject unit. Since there are only 1,139 parking stalls located onsite, a deficit of 7 parking stalls will occur. In addition to a Variation to waive the traffic study, the following parking Variation has also been requested:

- **Variation from Chapter 28, Section 10.4-4, to reduce the parking requirements from 1,146 parking stalls to 1,139 parking stalls.**

The parking requirement for Urban Air as well as the Arlington Plaza Shopping Center are listed below:

Unit	Use	Square Area	Parking Square Footage	Divider	Parking Required
1	L Electronics	900	900	300	3
2	Shiny Nail	900	900	250	4
3	Barks in Style Pet Grooming	1,200	1,200	300	4

4	Lions Tae Kwon Do	3,000	1,500	50	30
5	Foot Nirvana	3,000	3,000	250	12
6	Sandra Rossi Beauty School	9,800	9,800	1/emp; 0.5/student	58
7	Community Threads	22,100	22,100	300	74
8	China Buffet	6,750	3,240	45	72
9,10	Treasure Hunt Deals	17,875	17,875	300	60
11A	Planet Fitness	22,002	22,002	250	88
11B	Five Star Furniture and Outlet	45,300	45,300	600	76
11C	Proposed Urban Air*	66,992	66,992	30% occupancy of Recreational Facility; 1 space per 45 of restaurant; 1 space per 300 s.f. of amusement device arcade	332
11D	VACANT	26,435	26,435	300	88
12 --21	Harlem Furniture	27,700	27,700	600	46
22	America's Best Vision Center	4,000	4,000	300	13
23	Harvest Fresh Grocery & Café	23,472	23,472	300	78
24	North Arlington Barber Shop	900	900	250	4
25	Fifth Ave. Sushi	2,100	902	45	20
	Village Bank and Trust	7,896	7,896	300	26
28	VACANT	4,000	4,000	300	13
29	Big Chicken	2,614	1,287	45	29
30	Available (Pad)		0	45	0
31	Proposed Qargo Coffee**	5,000	5,000	300	17
	TOTAL	303,936			1,146
	Parking Provided				1,139
	Parking Surplus / (Deficit)				(7)
Arlington Plaza					
*Urban Air is evaluated with an overall occupancy of 298 (838 total occupancy - 556 occupancy of seating areas - 16 occupancy of amusement device arcade) Restaurant is 1 per 45 s.f., Amusement Device Arcade is 1 per 300 s.f.					
**To be evaluated under a separate Plan Commission application; parking rate is vacant (1 space per 300 s.f.) for the purposes of Urban Air					

A detailed parking study was provided, which outlines peak usage and capacity at the facility, surveys the existing parking demand within the shopping center during peak times to establish baseline demand, provides data and parking surveys from other Urban Air facilities in similar Chicagoland locations to forecast the increase in parking demand, and estimates total future peak parking demand within the Arlington Plaza shopping center upon full occupancy with Urban Air along with any other vacant units within the center.

The parking survey found that the Arlington Plaza shopping center was occupied at its peak on Saturday at 2:00 PM with a peak occupancy of 23% or 201 vehicles. Using data from an Urban Air location in North Riverside, Illinois the parking study found that this Urban Air occupied 43% or 89 of 207 parking spaces

at this location. Using the data from the parking survey of Arlington Plaza and a similar Urban Air facility, the parking study extrapolated the existing demand and expected demand to show that there would be a surplus of 393 parking spaces at Arlington Plaza with this Urban Air facility.

In addition, the parking study evaluated the parking field immediately adjacent to Urban Air to determine the estimated demand within that portion of the overall parking lot. The study found that the parking field in front of the proposed use can accommodate 92% of the required number of parking spaces at peak usage, with assumptions that customers will park only in the lot immediately adjacent to the use.

The petitioner provided a written responses to the four hardship criteria necessary for Variation approval, as outlined below:

- **The proposed use will not alter the essential character of the locality and will be compatible with existing uses and zoning of nearby property.**
- **The plight of the owner is due to unique circumstances, which may include the length of time the subject property has been vacant as zoned.**
- **The proposed variation is in harmony with the spirit and intent of this Chapter 28.**
- **The variance requested is the minimum variance necessary to allow reasonable use of the property.**

The SDC recommends approval of the variation to waive the traffic study as no accesses are being modified with this petition. The SDC recommends approval of the petitioner's requested parking variation to reduce the requirement from 1,146 parking spaces to 1,139 parking spaces. The petitioner's response to the variation criteria indicates that the restaurant use is not a "destination restaurant" and therefore not a main driving force for why customers would come to Urban Air. The majority of the demand for parking will be for the amusement facility and amusement device arcade uses, which require less parking than a restaurant (30% of occupancy & 1 space per 300 s.f. vs. 1 space per 45 s.f. of seating area).

RECOMMENDATION

The Staff Development Committee reviewed the proposed Special Use Permit to allow an Amusement Facility, Large, Special Use Permit to allow a Restaurant on the subject property, Variation to Chapter 28 of the Municipal Code, Section 6.12-1 to waive the requirement for a traffic study, and Variation to Chapter 28 of the Municipal Code, Section 10.4-4, to reduce the parking requirement from 1,146 spaces to 1,129 spaces, and recommends **APPROVAL** of the application subject to the following conditions:

1. The petitioner shall obtain a liquor license for any alcohol to be served on the premises.
2. The petitioner shall provide interior sound proofing if noise complaints occur within the shopping center or on adjacent properties at the discretion of the Village.
3. The petitioner shall comply with all Federal, State, and Village Codes, Regulations, and Policies.

Michael Lysicatos, Assistant Director of Planning and Community Development

July 19, 2024

Cc: Randy Recklaus, Village Manager
All Department Heads
Temp File 1848

PLAN

REPORT OF THE PROCEEDINGS OF A PUBLIC HEARING
 BEFORE THE VILLAGE OF ARLINGTON HEIGHTS
 PLAN COMMISSION

COMMISSION

RE: URBAN AIR AT ARLINGTON PLAZA - 30 WEST RAND ROAD - PC #24-017
 SPECIAL USE PERMIT FOR AMUSEMENT FACILITY, LARGE & SPECIAL USE PERMIT
 FOR RESTAURANT WITH VARIATIONS

REPORT OF PROCEEDINGS had before the Village of
 Arlington Heights Plan Commission Meeting taken at the Arlington Heights Village
 Hall, 33 South Arlington Heights Road, 3rd Floor Board Room, Arlington Heights,
 Illinois on the 22nd day of January, 2025 at the hour of 7:30 p.m.

MEMBERS PRESENT:

JAY CHERWIN, Chairperson
 LYNN JENSEN
 KRISTEN SCHURTZ
 JOE LORENZINI
 BRUCE GREEN
 GEORGE DROST
 TERRY ENNES
 JOHN SIGALOS
 SUSAN DAWSON

ALSO PRESENT:

MICHAEL LYSICATOS, Assistant Director of Planning & Community Development
 DANIEL OSOBA, Planner I
 RACHEL HITZEMANN, Development Planner

CHAIRPERSON CHERWIN: All right, I think we can go ahead and get started.

(Gavel pounded.)

CHAIRPERSON CHERWIN: We'll call to order. If we could stand up and recite the Pledge of Allegiance together?

(Pledge of Allegiance recited.)

CHAIRPERSON CHERWIN: All right, thank you.

Dan, can we have roll call, sir?

MR. OSOBA: Yes, we can. Chair Dawson.

COMMISSIONER DAWSON: That's old.

MR. OSOBA: Oh, excuse me, Commissioner Dawson.

COMMISSIONER DAWSON: I'm just saying, did something just happen? Here.

MR. OSOBA: Sorry about that.

COMMISSIONER DAWSON: No, you're all good.

MR. OSOBA: Commissioner Drost.

COMMISSIONER DROST: Here.

MR. OSOBA: Commissioner Ennes.

COMMISSIONER ENNES: Here.

MR. OSOBA: Commissioner Green.

COMMISSIONER GREEN: Here.

MR. OSOBA: Commissioner Jensen.

COMMISSIONER JENSEN: Here.

MR. OSOBA: Commissioner Lorenzini.

COMMISSIONER LORENZINI: Here.

MR. OSOBA: Commissioner Schurtz.

COMMISSIONER SCHURTZ: Here.

MR. OSOBA: Commissioner Sigalos.

COMMISSIONER SIGALOS: Here.

MR. OSOBA: Chair Cherwin.

CHAIRPERSON CHERWIN: Here.

Thank you, Dan.

All right, noted that we have a quorum for our meeting.

I think the first agenda item we have is number III. Approval of Minutes for ICON Studio at 3375 North Arlington Heights Road. Is there a motion to approve those minutes?

COMMISSIONER DROST: I'll make that motion.

COMMISSIONER SIGALOS: I'll second.

CHAIRPERSON CHERWIN: Okay, all in favor?

(Chorus of ayes.)

CHAIRPERSON CHERWIN: Any opposed?

COMMISSIONER DAWSON: I'll abstain. I was not present.

COMMISSIONER JENSEN: I'll abstain, too.

CHAIRPERSON CHERWIN: All right, thank you.

Motion passes.

Our next item on our agenda will be our public hearings.

Okay, the first public hearing we have is for East Country Lane Townhomes. I would ask Dan, have all public notices been given on this?

MR. OSOBA: They have.

CHAIRPERSON CHERWIN: All right, thank you.

And do we have a Petitioner for that matter here? Oh, that one was has been delayed?

MR. OSOBA: Correct. So, public notice has been posted, but that one is going to be continued to a date certain of February 26th.

CHAIRPERSON CHERWIN: Okay, and the notice that was posted identifies that new date?

MR. OSOBA: It will identify that new date. We'll ask the Petitioner to update the sign posting on the site, but --

CHAIRPERSON CHERWIN: Okay.

MR. OSOBA: -- the mailing and the posting that went out was for this hearing.

CHAIRPERSON CHERWIN: Okay, good. Thank you, yes, sorry, I forgot I saw your e-mail and totally blanked on it.

So, we will move to the next public hearing which is Urban Air at Arlington Plaza, and I'll ask you about Urban Air, have the notices been given on that one?

MR. OSOBA: Yes, they have.

CHAIRPERSON CHERWIN: Okay, and I think we have some folks from the Petitioner here to speak on that. Anybody who's going to speak on behalf of Urban Air, if you wouldn't mind coming up to the podium here? I'll just have you swear an oath that we do here prior to the public hearing. So, you just raise your right hand.

(Witnesses sworn.)

CHAIRPERSON CHERWIN: Okay, you do, thank you. The Staff has provided a Staff report. Have you read the Staff report? There are certain conditions of approval that they've recommended. Do you agree with those conditions of approval?

MR. PIAZZA: Yes, I do.

CHAIRPERSON CHERWIN: You do, okay. All right, good. So, however you want to present, either one of you or all of you, feel free to go ahead and get started. Then once you're done, we'll move over to the Staff and hear their report. So, sir, go ahead. If you could please state your name whenever you speak, or you know, for those of you when you do come up, if you could state your name for our record and spell it, please?

MR. PIAZZA: Yes. I am Tom Piazza, P-i-a-z-z-a. I'm here speaking on behalf of Urban Air. I'm Tom, the construction manager or owner's rep for the project, and Charlie Oraham and Nino Hermes are the owners of Urban Air. We are petitioning to have a variance for a parking variance as well as a large amusement and restaurant.

The owners of Urban Air are located right here, there's pictures of them up there. Nino Hermes is actually a resident of Arlington Heights. Both of them are, actually it's a family-owned business, very excited to be putting an Urban Air inside of this community. Here we go.

For the parking variance, we are asking, we agreed with the seven-spot deficit that Dan and all of us have put together. However, we do feel like with the other tenants in our shopping center, we are at different times for peak times for our parking, and we did want to kind of make a note of that. Our hours of operation are more from the evenings,

Monday through Thursday; and Friday, Saturday and Sunday, we're more of an all-day where other businesses inside of the shopping center are closed during that time.

We offer a range of different attractions for the community. As part of the business, the tube slides, soft play area, the soft play area is best for smaller, younger children. Then we have stuff for older youths, teens and like that, for instance, go-karts, climbing walls, warrior course which is like a Jungle Jim type, parkour I think is what they call it type of course, dodge ball. So, there's group activities, that's all part of our attraction package that we offer.

We have posted out the signages on Rand Road and Arlington Heights Road. We've sent out notices to everybody. We do think that it is a strong community or strong, how do I put this, a strong asset to the community. We have a, it's particularly designed towards family and children.

They're dedicated full compliance, Urban Air requires us to be dedicated full compliance with all local codes and state codes, those governing maintenance and licensing of those attractions. So, we will be making sure we obtain all those licenses, maintaining those licenses. There's constant maintenance programs that get issued down from Urban Air as well as the state that we all comply with. We also will comply with all local health and safety regulations as well, so anything from the Health Department, Building Department, we are fully ready to comply with and agree with.

We have our full set of architectural and engineering plans, ready to submit for permits. We have actually just submitted those for permits. We're ready for plan review comments and make any adjustments that you require.

One of the concerns that was brought up is actually sound and sound mitigation. Currently, both sides of demising wall, they're going to be two-hour rated wall which kind of utilizes two of the sound principles for deadening noise, right. So, we've added density to the wall and then sound absorption material which is like our insulation that goes in between the walls. So, the extra layer of drywall, two folds, gets us our fire rating of a two-hour rating but also adds density to that wall and will actually help deaden the noise.

So, we feel like we are taking sound as a serious thing. However, our main thing or main issue with sound is actually children playing loud, you know, kids yelling and having fun. The go-karts are actually electric, so they don't produce a lot of noise which is a good thing. Slides, stuff of that nature, climbing walls, those don't really produce noise. But the kids are definitely not quiet. So, we went ahead and we did, you know, add that extra layer of drywall which is two folds because they're set to two-hour rating.

We feel like we are a great steward of the community. Urban Air provides employment for youth and young adults, and even adults that have managerial positions, all the way down to part-time positions. On average, we have 60 to 80 employees at one given time, from returning college students all the way down to high school students to even managerial positions for adults.

Urban Air enhances the area's friendly appeal, providing a safe and fun destination for children, by supporting local economic growth. We offer certification programs and offering regular and belaying programs for young adults for employees to learn so they will be getting certified in those types of areas. We offer events for non-profit fundraising, team-building events for adults, birthday parties, all safe places for the community to come and have, you know, have fun at. Urban Air provides a supervised safe space for children and adolescents to engage in activity play and socialize, making it a valuable addition to our community here.

We are also offering food services as part of the park package. So, it's not a destination restaurant, so you couldn't just come and actually eat at the restaurant without purchasing tickets to go in and to enjoy the amusements as well. It is a limited menu; however, we will follow all local Health Department rules and regulations for that limited menu.

That's basically it, guys. We want to thank you for your consideration on having us in Arlington Heights. We welcome any questions that you guys might have or any concerns and we'd be happy to address.

CHAIRPERSON CHERWIN: Thank you very much, Mr. Piazza. You can take a rest here for a second. We're going to turn this thing over to the Staff and see what Dan has to say.

Dan, go ahead.

MR. OSOBA: Thank you, Commissioner.

The subject property of this petition tonight is located at 30 West Rand Road which is the former location of Burlington Coat Factory within the Arlington Plaza Shopping Center. The property is zoned B-2 General Business District and identified as commercial on the Comprehensive Land Use Map.

The Petitioner is requesting two special use permits--one for "amusement facility, large" which is any amusement facility greater than 5,000 square feet, and one for a restaurant, both of which are in this tenant space. Two variations are requested, one to waive the traffic study requirement and one to reduce the parking requirement by seven spaces.

This slide shows the subject site in red within the Arlington Plaza Shopping Center which is a previously approved PUD. The Petitioner is not modifying any external features of this PUD; therefore, a PUD amendment is not required. The shopping center is at the northwest corner of West Rand Road in South Arlington Heights Road. There are several signalized and uncontrolled access points in and out of the site, and the property functions well from an access point of view, and traffic flows efficiently as designed. Parking within the PUD is shared with a total of 1,139 spaces available to all businesses.

This is a more detailed view that shows the proposed overlay that the Petitioner provided on an aerial image of the shopping center. Urban Air is proposing to occupy approximately 67,000 square feet of the former Burlington's which is highlighted in red. The main entrance will face Rand Road, and deliveries will occur in the rear as they did in Burlington's. The blue shaded area is 23,435 square feet, and it's a vacant remnant space that will be left over and unoccupied by Urban Air. In the evaluation of this petition, the SDC requested that the Petitioner provide further detailed analysis on the market study on the viability of this vacant remnant space.

The market study provided by the Petitioner shows that Urban Air offers a unique destination for kids and adults, and the demographic data provided within the study shows that viability. Staff agrees with the Petitioner that the space is deemed necessary for the public convenience at this location for both the amusement facility and the restaurant cafe, which realistically functions as an accessory to the amusement facility and less of a destination restaurant as the Petitioner indicated.

For the remainder space, the Petitioner postulates that this space could be utilized as a fitness facility, racket ball facility, or other fitness center for active adults. Alternatively, and at Staff's request, the Petitioner evaluated the space to determine that the smaller tenant space could be viable for smaller beauty salons, health and wellness facilities, studios, tutoring or smaller gymnasiums. Staff also agrees that the remnant space is viable based on the information provided by the Petitioner and in the market study.

Urban Air, as a business, intends to provide a variety of amusement activities as the Petitioner indicated. Party rooms are provided for groups, and walk-ins are welcome. The hours of operation are Monday through Thursday from 4:00 p.m. to 9:00 p.m., Friday from 10:00 a.m. to 9:00 p.m., and Saturday from noon to 8:00 p.m. The restaurant will primarily serve snacks, concessions, pizza, burgers and soft drinks. Alcohol sales are proposed and a liquor license would be required for any of those.

The two variation requests are to waive the requirement for a traffic study and to reduce the amount of parking required on the subject site from 1,146 to 1,139 spaces. Staff recommends approval of the variation to waive the traffic study as the site access is well defined, contains signalization, has access onto two major arterials, and is not being modified with this application. For parking, the Petitioner has provided a parking study that contained a survey of other Urban Air locations and a parking survey of Arlington Plaza Shopping Center as well. The study found that the shopping center was at peak parking on a Saturday afternoon with 23 percent of the spaces occupied. When adding the parking data from other Urban Airs to this baseline, the study determined that Arlington Plaza could see approximately 65 percent of the spaces occupied with this new Urban Air facility, which leaves a surplus of 393 parking spaces within the shopping center. The SDC, therefore, recommends approval of the parking variation to reduce the parking requirement from 1,146 spaces down to 1,139 spaces which is a seven-space deficit.

The SDC reviewed the proposed special use permit to allow an amusement facility, large, the special use permit to allow a restaurant on the subject property, the variation to Chapter 28 of the Municipal Code, Section 6.12-1 to waive the requirement for a traffic study, and the variation to Chapter 28 of the Municipal Code, Section 10.4-4 to reduce the parking requirement from 1,146 spaces to 1,139 spaces, and recommends approval of the application subject to the conditions in the Staff report and on the slide

That concludes my presentation.

CHAIRPERSON CHERWIN: Thank you, Dan, well done.

Is there a motion to submit the Staff report into the record?

COMMISSIONER GREEN: I'll make that motion.

COMMISSIONER JENSEN: Second.

CHAIRPERSON CHERWIN: All in favor?

(Chorus of ayes.)

CHAIRPERSON CHERWIN: Any opposed?

(No response.)

CHAIRPERSON CHERWIN: Okay, motion passes. Thank you. Well, I think given the fact that there isn't a huge public here, maybe what we'll do before we do initial questions unless anybody has a pressing question is open the public hearing for comments.

So, everybody okay with that? All right.

So, I'll open the public hearing. Is there any comment from the public on this project?

(No response.)

CHAIRPERSON CHERWIN: No, all right. Well, that was easy. We're going to close the public hearing and we will go to our questions of the Petitioners, from the Petitioners, or from the Commissioners to the Petitioners. Sorry about that.

So, we'll start down by Sue. Do you have any questions for our Petitioners?

COMMISSIONER DAWSON: Yes. I was just trying to look and see, I was trying to come up for questions, if there is, you talk about this being for kids, are there age limits?

MR. PIAZZA: Oh, age limits. No, there is no age limit. There are height requirements for certain attractions.

COMMISSIONER DAWSON: Meaning you have to be taller than, not shorter than?

MR. PIAZZA: Correct.

COMMISSIONER DAWSON: So, how does that work with liquor sales if we're going to have all these activities going on but people can also drink?

MR. PIAZZA: So, I'll let --

MR. ORAHAM: That will be 18 and older to get in because you've got to have an adult to sign a waiver.

CHAIRPERSON CHERWIN: Give us your name first.

MR. ORAHAM: My name is Charlie Oraham, sorry.

COMMISSIONER DAWSON: Yes, but what I'm trying to get at is I can go to the bar and then I can go get on a go-kart?

MR. ORAHAM: For like an adult?

COMMISSIONER DAWSON: Yes.

MR. ORAHAM: No.

COMMISSIONER DAWSON: So, that's what I was trying to get at. Is there an age limit? How are you restricting adults from doing the various activities?

MR. ORAHAM: No, the regulation from the franchise is if they drink any alcohol, they cannot use any go-karts.

COMMISSIONER DAWSON: Okay, so that's just generally monitored? I mean, I don't know how you would, how do you control that?

MR. ORAHAM: Honestly, I can't give you an answer right now. I can find out and let you guys know if it's a concern.

COMMISSIONER DAWSON: I'm just curious how it works.

COMMISSIONER ENNES: Could they wear a band or something if they're drinking?

COMMISSIONER DAWSON: I don't know. It's really your concern, I mean, that's a huge liability risk, right? So, that's why I was trying to see if, because everybody was talking about kids and kids and kids. I'm like, well, what's going to stop an adult from --

MR. ORAHAM: So, just like Chuck E. Cheese has beer and wine, it's the same kind of --

COMMISSIONER DAWSON: Yes, I'm not getting in a go-kart in Chuck E. Cheese though.

MR. ORAHAM: I understand that, no. I know a regulation in the waivers that any person that walks in, you're not supposed to drink any alcohol and go on the go-karts. The adults that get on the go-karts, it's got to be a smaller kid that can't reach the size and they're double carts. So, that's really the only time adults get on the go-karts is when they're going with a kid because it's got restrictions on height.

COMMISSIONER DAWSON: Wait, so you can't fit in a go-kart?

MR. ORAHAM: No, no, you can. There's double-widers.

COMMISSIONER DAWSON: It's the other way around.

MR. ORAHAM: So, the double-widers --

COMMISSIONER DAWSON: It's still the same restrictions, okay. I think you wanted to say something?

MR. HERMES: Yes. Hi, my name is Nino Hermes. As far as drinking --

COMMISSIONER ENNES: What is your connection?

MR. HERMES: I'm one of the owners as well, the President. So, I believe that you have a two or three-beer maximum per three-hour stay. I think you can only allow them to drink one beer per hour. So, it's not like they can come in and can drink, same as any bar, like you can only serve one beer per hour.

COMMISSIONER DAWSON: I've had more than one beer in an hour in a bar.

MR. HERMES: You're not supposed to technically. Anything over one drink in an hour, you're being over-served technically, but it's the same thing, they have a restriction, I believe a three-beer maximum on a three-hour stay.

COMMISSIONER DAWSON: So, you're monitoring that is what you're saying.

MR. HERMES: Yes. Yes.

COMMISSIONER DAWSON: And you keep saying they have a restriction, but it's you.

MR. HERMES: Yes.

COMMISSIONER DAWSON: Okay, because --

CHAIRPERSON CHERWIN: When you say they --

MR. HERMES: It's our responsibility to make sure.

CHAIRPERSON CHERWIN: It's corporate policy.

MR. HERMES: Yes, yes.

COMMISSIONER DAWSON: So, you're monitoring it. I mean, that's just really what I was getting at.

MR. HERMES: And, obviously, the person that is serving must be 21 or older to serve the beer. So, they're aware of how many beers they're giving out.

COMMISSIONER DAWSON: And they're kind of keeping an eye on it. I mean really, nothing against you, I'm just, adults are idiots and I can see --

MR. HERMES: Also, with the go-karts, we do have automatic shutoffs on them.

COMMISSIONER DAWSON: Okay.

MR. HERMES: If we feel that anybody is on a go-kart and they're not acting appropriately, we can shut them down and actually --

COMMISSIONER DAWSON: So, you'll have like staff trained to like --

MR. HERMES: Yes.

COMMISSIONER DAWSON: That's really all I was looking for.

MR. HERMES: Yes.

COMMISSIONER DAWSON: Is that you have some sort of, you're aware of the problem and that there is some sort of procedure to monitor it and ensure that, I mean, people just do stupid things.

MR. HERMES: We have full, Urban Air has a university where everybody has to be certified in any department that they work, especially when it comes to the zip-lining, the go-karts, there's always some type of certification. If they're not certified, they can't work that portion of the park.

COMMISSIONER DAWSON: Okay, so it's definitely, it sounds from what you're saying, there is a procedure, it is monitored. Yes, that's what I was looking for.

MR. HERMES: Yes, and I believe our liquor sales only account for about four percent of total sales as well.

COMMISSIONER DAWSON: Okay, I went down that path and I had another question. Oh, the sound proofing, how do we enforce that? Did you want to speak to us about that a little bit?

MR. OSOBA: So, it's up to the discretion of the Village if we receive complaints from anybody, from adjacent residents which there really isn't adjacent residential to any of this, but other tenants within the center or other shoppers within the center. I don't anticipate that being the case, but if it is the case, we want the Village to be protected in some way so that the Village has the discretion to require some level of sound proofing in addition to what they've already done if that is deemed necessary in the future.

COMMISSIONER DAWSON: Right, so we've been through this, you know, for a long time and the enforcement is always the issue, right? So, do we have the discretion? Yes. Do we have the ability to say to them put in sound proofing? Yes. What happens when they don't do it?

MR. OSOBA: It would be a code enforcement issue.

COMMISSIONER DAWSON: Do we shut them down?

MR. OSOBA: It would be, potentially, it would be up to the discretion of the Village.

COMMISSIONER DAWSON: I mean, that's really what I'm looking for here is, and just making sure it's on the record and it's been discussed, right, because the sound issue, I'm sure you have it addressed. It sounds like something you've been through before. This isn't the first time that one of these facilities has gone up in a shopping mall. We just have to ask, right?

MR. PIAZZA: No, it makes perfect sense.

COMMISSIONER DAWSON: And the concern I always have is enforcement, right? So, we say, we've seen it many, many times over the years where, you know, people start calling and complaining and then there's really not much the Village can do. So, I would just want to be sure that when we're doing this and we're putting this kind of waiver and not really digging too much into the sound proofing, that we do have the ability to enforce it if it becomes an issue. Okay, that's it.

CHAIRPERSON CHERWIN: Thanks, Sue.
John?

COMMISSIONER SIGALOS: Yes, I just have a question. Are there other similar Urban Air indoor amusement parks in the Chicago area?

MR. PIAZZA: Absolutely. There's one in Glenview, Vernon Hills.

MR. HERMES: Rockford, Crystal Lake.

MR. PIAZZA: Crystal Lake, Rockford.

COMMISSIONER SIGALOS: So, they've been in operation for a number of years?

MR. PIAZZA: Yes.

MR. HERMES: Riverside.

MR. ORAHAM: There's 300 parks now that are actually up and running.

COMMISSIONER SIGALOS: Okay, have you run into any sound issues

and complaints for any of these other Urban Air amusement parks?

MR. PIAZZA: I have worked on over 40 parks personally as a construction administrator, and we have not run into that scenario. So, we have been requested to add additional sound proofing and it's usually when we go to a two-hour rated wall versus a one-hour rated wall or a UL410 rated wall.

COMMISSIONER SIGALOS: If I can make a suggestion, I was a general contractor for many years, you can use sound-absorbing panels and materials that you put on a wall, then add another layer of drywall. That further reduces the sound and absorbs the sound and keeps it within your premises.

MR. HERMES: I wanted to say something as well. We're also in the restaurant business and we've had large entertainment. So, we've run across that where there's been issues of noise because of the bands that were playing. So, we're aware of what we need to do to kind of deaden some of that sound. There's a lot of things, and just like you mentioned, I was going to bring that up as well, there's a lot of barriers that you can do. There's, the more objects you put inside of any, it absorbs a lot more noise. So, they were cautious with where they kind of place the park attractions at, too, where the kids are yelling, where the slides are, where you can kind of condense some of that noise as well.

So, we've had the same scenario where we've had the bands playing on Friday nights and we've had neighbors that have complained and we managed to get rid of that. There's nothing louder than a band when you have the drums playing. We were able to address that issue. After 18 years, we haven't had a complaint and probably around 12 years as far as our sound.

MR. PIAZZA: In regards to Urban Air, all 300 locations were all completed by two different architects. So, there's only been two architects for all of those locations. So, when they've kind of developed this system program, they've really dialed it in. They're all pretty much the same parks.

COMMISSIONER SIGALOS: Okay, well, I'm glad to hear you have previous favorable responses to problems like this then.

MR. PIAZZA: Yes.

COMMISSIONER SIGALOS: Thank you. No, I think it's an interesting project and I really don't have any other questions at this point.

CHAIRPERSON CHERWIN: Thanks, John.
Terry?

COMMISSIONER ENNES: So, I'm not familiar with these operations, although I go to a lot of the towns that you're in, I'll have to look them up. My children are older. So, this is kind of like a Chuck E. Cheese on steroids.

MR. PIAZZA: Yes. Yes, exactly.

COMMISSIONER ENNES: Also, with older kids.

MR. PIAZZA: I don't know if Urban Air would appreciate that, but I definitely understand where you're coming from.

COMMISSIONER ENNES: You've got younger kids and teens which --

MR. HERMES: This is a little bit different only because we have kids that are exercising and they're running around and they're playing, so they're getting exhausted. The difference is a lot of these family members now, they kind of have pulled away from their kids. They're sitting on their video games and playing these games where they're just sitting there. They're not getting their exercise. When they're coming by us, they're spending two hours, an

hour to three hours of running around so they're exhausted. So, they're getting a lot of exercise they normally wouldn't get by going to a Chuck E. Cheese or going to a lot of these other places where they just have video gaming and that's about it. So, there's a big difference of how we kind of differentiate ourselves from Chuck E. Cheese.

MR. PIAZZA: Yes. Actually, video gaming is not allowed actually inside of an Urban Air.

COMMISSIONER ENNES: It sounds like it will be a great use of a large facility.

MR. PIAZZA: Yes.

COMMISSIONER ENNES: Right, you've got it set down. So, sounds good to me.

CHAIRPERSON CHERWIN: George?

COMMISSIONER DROST: Yes, what kind of seasonality is there to your audience?

MR. PIAZZA: Great question, because hours of operation are subject to change based off of seasonalities, right? Holidays, hours when your kids are off school, the hours will expand a little bit. Then when they go back into the school, the hours condense back onto what our normal hours of operation are. Same with summertime.

MR. HERMES: Our slowest season is going to be summertime, but that's when we kind of approach more of the summer camps, things like getting the churches involved in the summer camp just to bring the larger groups in because we do teeter off a lot. I think there's about a 30 percent drop-off during summertime. So, that's when the summer camps are where we, you know, we give them more promotions and do more things for the community as well.

COMMISSIONER DROST: I was just kind of trying to tie in to Mr. Piazza's statement earlier about the parking so that sometimes there's more demand in the parking area and less demand in the summer. You know, your air conditioned, maybe people want to go, and sometimes the weather gets cold here and people want to get their kids out of the cabin fever state. So, there is some advantage to it and you guys can monitor that.

MR. PIAZZA: Yes.

COMMISSIONER DROST: Yes, or you have got that experience. What's a value package? Tell me, sell that to grandpa.

MR. PIAZZA: Yes. Well, are you talking about total investment to Urban Air park, or --

COMMISSIONER DROST: No, just from the standpoint of, okay, I got three wild grandchildren or 12 of them or whatever. What kind of deal can you make?

MR. PIAZZA: Oh, if you're a patron.

COMMISSIONER DROST: You know, market, do some marketing right now.

MR. PIAZZA: There you go.

MR. ORAHAM: So, there's different packages for the attractions that they can go into. It usually starts around \$15 and go all the way up to \$30. Some are unlimited time which is considered a three-hour package, and then there's a one-hour package. We do have memberships, so just like adults have, you know, health club memberships, we have a kid membership where it's \$30 a month and they can come unlimited, and they can bring family or friend every time they come in, with that package. So, they're not coming alone, if you've got one

kid, they can bring a friend for free with that membership.

COMMISSIONER DROST: Good, and there's no restrictions on really old people driving the go-karts.

COMMISSIONER GREEN: It will be fun.

COMMISSIONER DROST: Yes, you know, we go to Alexei for the test or what.

MR. PIAZZA: Yes.

COMMISSIONER DROST: The other question I've got, on a serious note, is the landlord advised of this petition and have you had contact with them? Whatever you bring back, the Jack and the beanstalk and, you know, what the heck were you guys doing that night?

MR. PIAZZA: Yes. He's been very involved actually.

COMMISSIONER DROST: Good.

MR. PIAZZA: So, yes, we have been involved with him very much so. He's actually checked several times on the status of our SUP and where we're at in regards to obtaining it and to make sure everything is still moving forward.

COMMISSIONER DROST: Yes, and this is sort of a policy or procedure that we're trying to adopt, that without the landlord, we want to make sure that there is a sense of communication so that you don't really do anything that might jeopardize an approval here.

MR. PIAZZA: Yes, yes, absolutely.

COMMISSIONER DROST: Okay, I'm done. Thank you.

MR. PIAZZA: Thank you.

CHAIRPERSON CHERWIN: Thanks, George.

Bruce?

COMMISSIONER GREEN: When you guys came to the Conceptual Plan Review, I was there and I was very impressed with this. So, this is something my grandkids are going to love.

MR. PIAZZA: Yes.

COMMISSIONER GREEN: The go-karts, oh, my God, and it's \$30 a month, I'd like to take this information home. For unlimited, is that what you're saying, per kid?

MR. PIAZZA: Yes.

COMMISSIONER GREEN: Oh, my God, this is great. You can tell I'm enthusiastic; I think it's great. Also, the sound thing is not as much of a problem. It is a shopping center; it is a distance away from residential because that's where your trouble comes. You've put the two-hour wall between you and the space you didn't take, and you also, hats off to your architect, you've put those rooms up there as a buffer to the space. That's not, you're not taking in the corner.

MR. PIAZZA: Yes.

COMMISSIONER GREEN: Anyway, it's great. It's a great plan; I think it's going to work wonderfully here in Arlington Heights. So, welcome.

MR. PIAZZA: Thank you. Thank you.

CHAIRPERSON CHERWIN: Thanks, Bruce.

Joe?

COMMISSIONER LORENZINI: Yes, Dan, I have a question for you. So, the parking count, are you, typically for a, let's say an office building or a doctor's office, you expect so many persons or cars per square foot. So, I assume the count for this project, because one driver may take three or four kids, so how many, how does that differ from like an office or a

doctor's office?

MR. OSOBA: Sure. So, the parking requirements for this are broken off by the type of uses that are within the overall use of Urban Air which is several different pieces here. So, there is a recreational facility which is a section of code that encompasses a larger portion of what Urban Air is, and the parking requirement for a recreation facility is just 30 percent of the occupancy. The occupancy is determined by the architect and they provided that information to us.

The second piece of that is for the restaurant component which is their cafe, and that's one space per 45 square feet of the restaurant seating area. Then the last bit is one space per 300 square feet of the amusement device arcade, so there's portions of it that are less of a recreation facility and more of like an arcade. That's minimal, but that still was taken into account. So, it's a calculus of all of those things into one.

COMMISSIONER LORENZINI: Okay, Dan, thank you for that.

For the Petitioner, it is a great project and hopefully wildly successful, but what happens if you get too many people coming in? Is there reservations or how is that controlled? If everybody buys a pass and then they all decided to come at once, how is that getting handled?

MR. ORAHAM: Yes, the most I've seen I think on memberships for the busier parks, I want to say it's like 270 and change I think or something like that. So, it's not like, you know, you're not going to get 1,000 people that sign up and then show up at one time. Most, when you get the membership, I think the number was 1.8, so they come in at most two times a month. But if they're coming in, they're still saving half the money at that point. If you come in, you know, twice, you save 30 bucks.

MR. PIAZZA: But in the event that it does happen, they are all checked in, so we have a running count of it so we know exactly how many people are going to be present inside of the park so that we can limit the flow. If there is too many, we won't go over the occupancy requirements.

COMMISSIONER LORENZINI: Okay, thank you. That's all I have.

MR. HERMES: There is also a time restriction on how long they can be at the park. So, at any point, if you have maximum capacity, it's constantly changing. So, for 20 people to leave that have been there for an hour and a half, 20 more people are allowed back in, and that's if you have maximum capacity throughout the day.

CHAIRPERSON CHERWIN: Can you explain that real quick? The time limit, how do you enforce that?

MR. HERMES: There's a, for the wristbands, they're timed.

CHAIRPERSON CHERWIN: Oh, so they're --

MR. HERMES: So, they're like off where they're not allowed in certain areas of the park. Also, once it shuts down, they can't scan in to get into the sections.

CHAIRPERSON CHERWIN: Got you. So, Bruce can't hang out for 12 hours.

MR. PIAZZA: Yes, right, exactly.

CHAIRPERSON CHERWIN: There goes that --

COMMISSIONER GREEN: I only get three beers.

CHAIRPERSON CHERWIN: Yes, what are you going to do?

COMMISSIONER DAWSON: Not even for an hour-and-a-half.

CHAIRPERSON CHERWIN: Right, that's true.

MR. HERMES: Also, the ID cards, they're all color coordinated, so they know the color blue, your time is up, start making your way to the exit.

CHAIRPERSON CHERWIN: Okay, Bruce, did you have another follow-up question on that?

COMMISSIONER GREEN: No, I was going to say if business gets that good, you just take over the rest of the shopping center.

MR. PIAZZA: Exactly, exactly.

COMMISSIONER GREEN: That's the solution.

CHAIRPERSON CHERWIN: I like it.

Kris?

COMMISSIONER SCHURTZ: I don't really have any questions, but it was funny, I was talking to a friend today who is a principal in Houston and they're not in school because they have snow and they don't know what to do, but I was telling her about Urban Air and she goes we have an Urban Air in Katy, Texas. She goes the kids love it, she goes that is where everybody has their birthday parties, and she is in a huge school. So, I think this would be a great addition to Arlington Heights.

MR. ORAHAM: That's where the franchise was started was Texas.

COMMISSIONER SCHURTZ: Really?

MR. ORAHAM: So, that's where their headquarters are.

COMMISSIONER SCHURTZ: There we go, there we go. I think it's a great idea.

CHAIRPERSON CHERWIN: Thanks, Kris.

Lynn?

COMMISSIONER JENSEN: Yes, I also think it's a great project and I'm in favor of it. I just wanted to ask Staff on one thing. You did reference just briefly the remaining space. They don't have any obligations relative to the extra unleased property at this point?

MR. OSOBA: No, they do not.

COMMISSIONER JENSEN: Okay, great. I don't have really any questions; I think it's a good project.

CHAIRPERSON CHERWIN: Yes, I saw it in the subcommittee; I thought it was good. I would just say, you know, make sure, you know, we're a recommendation body here, so if you make it to the Village Board, they may have some follow-up questions. Commissioner Dawson brought up some good questions about sound. Make sure, you know, we have the details on that, and the alcohol, you know, limitations. So, whether it's, you know, maybe lean on your corporate group for how they handle it, maybe in policies, so you can present that to the Village Board if it comes up would be good.

I'm not too concerned about the sound. I think, you know, particularly with the landlord as well, you know, the landlord is going to have an incentive to make sure this works out, too, because, you know, other --

MR. HERMES: The landlord was involved. He had to approve all the drawings as well.

CHAIRPERSON CHERWIN: Yes.

MR. HERMES: So, they reviewed them before we could actually submit as well.

CHAIRPERSON CHERWIN: Yes, okay. Well, I think that will help in making sure everything is good. The only question I did have was I looked at, I don't think I heard

this in the presentation but I'm just curious, as I look at the go-kart, can you just clarify briefly sort of the safety precautions, you know, if we have these moving go-karts going around, we don't want some kid walking by getting smoked by some out-of-control go-kart. So, what is your barrier and sort of safety precautions to that?

MR. PIAZZA: There's actually safety ropes and it's all got barriers that are roughly about four-foot tall on the ground level portion, but most of it is actually up in the air, second-story height-wise that are going up and down.

CHAIRPERSON CHERWIN: And in the elevated sections, what's the precaution there? Is there like a padding or barrier?

MR. PIAZZA: It's actually all plywood constructed and those are the barriers. So, it's all wood-frame plywood constructed.

CHAIRPERSON CHERWIN: Okay.

MR. ORAHAM: So, because they're electric, too, you can't even go top speed on certain corners. They know automatically, it slows down by itself.

CHAIRPERSON CHERWIN: Got you.

MR. ORAHAM: So, and then if there's other like, you know, an accident or anything, we have the switches to turn it off on the spot because they're all electric.

CHAIRPERSON CHERWIN: Okay, all right, thank you. Anybody else have any --

COMMISSIONER DROST: No, but I'll go ahead and make a motion if you want.

CHAIRPERSON CHERWIN: That would be just fine, George. Please do.

COMMISSIONER DROST: Yes, I'll make a motion.

A motion to recommend to the Village Board of Trustees approval of PC #24-017, a Special Use Permit to allow a large amusement facility on the subject property, a Special Use Permit to allow a restaurant on the subject property, and the following Variations:

- 1. A Variation from Chapter 28, Section 6.12-1 to waive the requirement of a traffic study;**
- 2. A Variation from Chapter 28, Section 10.4-4 to reduce the parking requirement from 1,146 parking spaces to 1,139 parking spaces.**

This recommendation is subject to the resolution of the following:

- 1. The Petitioner shall obtain a liquor license for any alcohol to be served on the premises.**
- 2. The Petitioner shall provide interior sound proofing if noise complaints occur within the shopping center or on adjacent properties at the discretion of the Village.**
- 3. The Petitioner shall comply with all federal, state and Village codes, regulations and policies.**

CHAIRPERSON CHERWIN: All right, is there a second for that motion?

COMMISSIONER GREEN: Second.

CHAIRPERSON CHERWIN: All right, we've got a second.

Dan, if we could please do a roll call for approval of this motion?

MR. OSOBA: Commissioner Dawson.
 COMMISSIONER DAWSON: Yes.
 MR. OSOBA: Commissioner Drost.
 COMMISSIONER DROST: Aye.
 MR. OSOBA: Commissioner Ennes.
 COMMISSIONER ENNES: Yes.
 MR. OSOBA: Commissioner Green.
 COMMISSIONER GREEN: Yes.
 MR. OSOBA: Commissioner Jensen.
 COMMISSIONER JENSEN: Yes.
 MR. OSOBA: Commissioner Lorenzini.
 COMMISSIONER LORENZINI: Yes.
 MR. OSOBA: Commissioner Schurtz.
 COMMISSIONER SCHURTZ: Yes.
 MR. OSOBA: Commissioner Sigalos.
 COMMISSIONER SIGALOS: Yes.
 MR. OSOBA: Chair Cherwin.
 CHAIRPERSON CHERWIN: Yes.

All right, well, the motion has passed, and so you have been given a recommendation for approval of your petition. So, we're a recommendation body, this will move to the Village Board for final approval, and Dan can help you figure out when that's going to be and how to go through that process. So, congratulations.

MR. ORAHAM: Thank you.
 MR. HERMES: Thank you.
 CHAIRPERSON CHERWIN: And good luck. You're welcome.
 MR. PIAZZA: Thank you, guys; thank you very much.
 CHAIRPERSON CHERWIN: Sure, good luck.

Okay, so let's see, we're going to move on to other business.

MR. OSOBA: Pardon me, Chair?
 CHAIRPERSON CHERWIN: Oh, yes?

MR. OSOBA: I believe we may need to go, before we move on, going back to the East Country Lane Townhomes, I believe we need a vote to, a motion and a second and a vote to continue it to a date certain.

CHAIRPERSON CHERWIN: Yes.

MR. OSOBA: And a notice that this would be the last notice of that public hearing on February 26th.

CHAIRPERSON CHERWIN: All right, so good procedural point there.

Do we have a motion to continue as Dan has suggested?

COMMISSIONER GREEN: I'll make the motion to continue the East Country Lane Townhome project to a date certain.

COMMISSIONER DAWSON: Second.

COMMISSIONER ENNES: I second that.

CHAIRPERSON CHERWIN: All right, why don't we do a roll call vote?

MR. OSOBA: Commissioner Dawson.

COMMISSIONER DAWSON: Yes.

MR. OSOBA: Commissioner Drost.

COMMISSIONER DROST: Aye.
 MR. OSOBA: Commissioner Ennes.
 COMMISSIONER ENNES: Yes.
 MR. OSOBA: Commissioner Green.
 COMMISSIONER GREEN: Yes.
 MR. OSOBA: Commissioner Jensen.
 COMMISSIONER JENSEN: Yes.
 MR. OSOBA: Commissioner Lorenzini.
 COMMISSIONER LORENZINI: Yes.
 MR. OSOBA: Commissioner Schurtz.
 COMMISSIONER SCHURTZ: Yes.
 MR. OSOBA: Commissioner Sigalos.
 COMMISSIONER SIGALOS: Yes.
 MR. OSOBA: Chair Cherwin.
 CHAIRPERSON CHERWIN: Yes.

Thank you. All right, motion passes, thank you.

The only other business, I would just want to say welcome to our new member, Kris Schurtz over here, sitting between Joe and Lynn. We're very excited to have her on board. Mary Jo was awesome and we will miss her, she brought a lot to the table, but we are very happy to have you on board. So, welcome.

COMMISSIONER SCHURTZ: Thank you.

CHAIRPERSON CHERWIN: Looking forward to it, thank you.

All right, so let's see, we will open up the floor for general public comments.

MS. HITZEMANN: I have another -- sorry to interrupt, I have another Commission business.

CHAIRPERSON CHERWIN: Yes?

MS. HITZEMANN: We are in discussion of having a re-organization for the Plan Commission. So, we would like to have a vote for a new Chair and Vice Chair. It doesn't mean that you can't continue to be Chair, but just to vote on it as it should be done every year. We figure now that we have a new Commission member, it would be a good time to introduce that, as well as anybody who would like to get off or get on one of the subcommittees, we are looking to hopefully do this vote at the next meeting so it will give you some time to think about it. If you would like to be the Chair, Vice Chair, would like to be on one of the subcommittees or not be on one of the subcommittees, it gives you time to think about that for the next meeting. So, I just want to let you know that that's in the works.

CHAIRPERSON CHERWIN: All right, well, thank you.

COMMISSIONER DROST: Will there be an inaugural ceremony?
 Party?

MS. HITZEMANN: I'll think about it.

CHAIRPERSON CHERWIN: Several inaugurals, you have to go from party-to-party, George.

MR. LYSICATOS: There's a little bit of budget for that.

MS. HITZEMANN: Yes.

CHAIRPERSON CHERWIN: George has finally engineered his coup.

COMMISSIONER DROST: Hard to get back the capital.

COMMISSIONER GREEN: They saved it on the salary thing.

COMMISSIONER ENNES: Wait, you haven't been Chair that long, right?

CHAIRPERSON CHERWIN: I have not, but obviously I've been underperforming.

MS. HITZEMANN: No, I'm not saying that you can't continue.

CHAIRPERSON CHERWIN: Kidding.

MS. HITZEMANN: You can vote for the same Chair, but we do not have a current Vice Chair, so we need to vote for that. You can definitely vote for Jay again but it should be done yearly as a --

COMMISSIONER ENNES: Prior to that meeting, would Staff send us a list of who's on what?

MS. HITZEMANN: Yes, yes.

CHAIRPERSON CHERWIN: We don't have, like she said earlier, we don't have a Vice Chair. You know, I've had to recuse myself from time-to-time, so it would be good to have an official Vice Chair, or you know, if somebody else wants to run, then let me know and I'll nominate you.

COMMISSIONER DAWSON: I don't think you have anything to worry about with that.

CHAIRPERSON CHERWIN: I thought there was hope, all right.

Okay, well, thank you. Thank you to Staff for the presentations here. I don't think we have anything else. We have no public comment.

So, with that, is there a motion to adjourn?

COMMISSIONER DROST: I'll make that motion.

COMMISSIONER DAWSON: Second.

CHAIRPERSON CHERWIN: All right, all in favor?

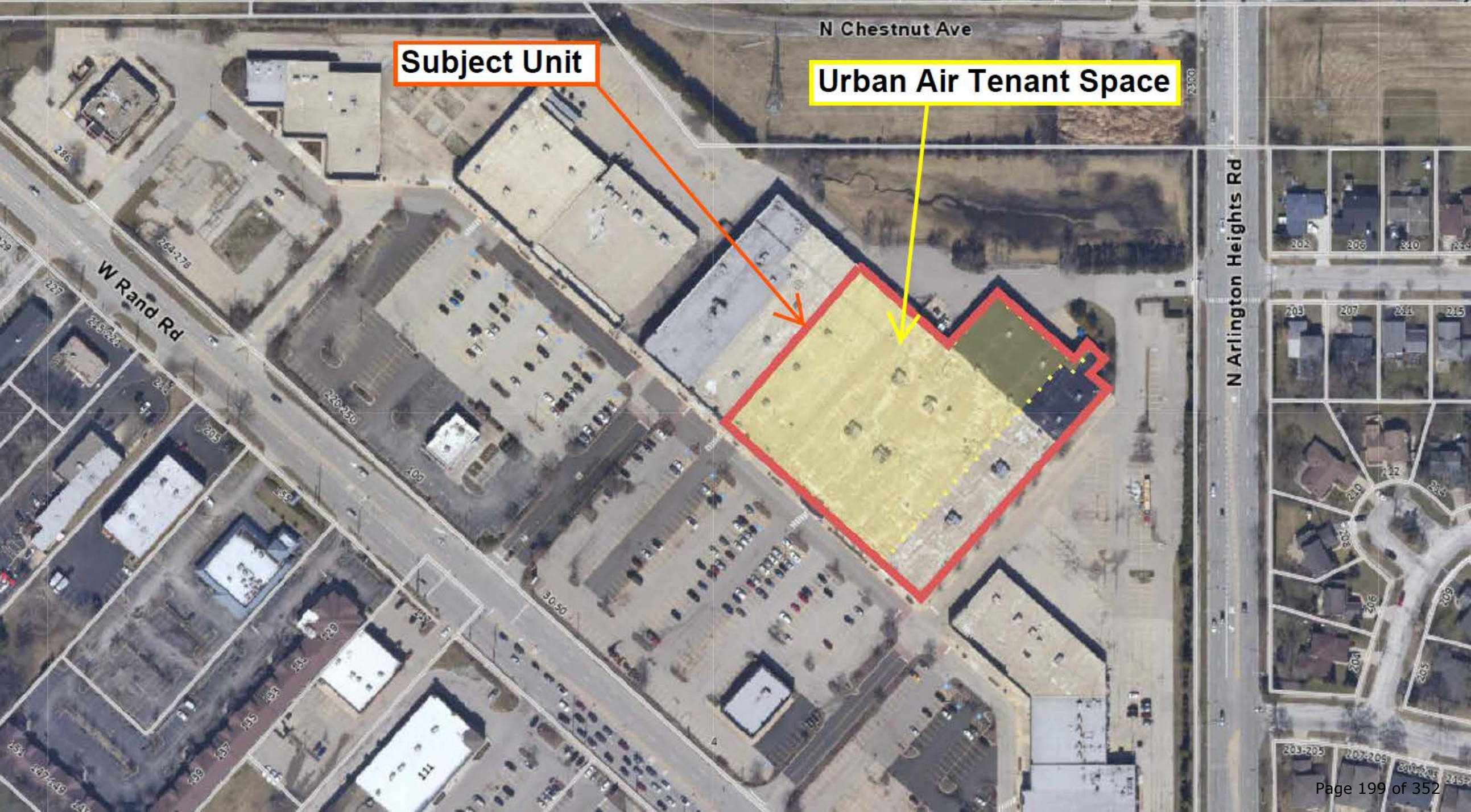
(Chorus of ayes.)

CHAIRPERSON CHERWIN: Any opposed?

(No response.)

CHAIRPERSON CHERWIN: All right, motion passes. Meeting adjourned. Thanks, everybody.

(Whereupon, at 8:44 p.m., the public hearing on the above-mentioned petition was adjourned.)



Subject Unit

Urban Air Tenant Space



Special Use Criteria

Revision 1: January 2, 2025

Original: December 4, 2024

Urban Air Inc. is pleased to provide the following detailed response to the Staff Development Committee (SDC) regarding its proposed adventure park at **30 W Rand Rd, Arlington Heights, IL 60004**. We appreciate your time and consideration in reviewing this project and look forward to collaborating to bring this exciting opportunity to the Arlington Heights community. Currently Urban Air is requesting a special use on Amusement, large and restaurant with a Variance on parking.

1. That said special use is deemed necessary for the public convenience at this location.

Strong communities thrive on having diverse, community-oriented leisure options, particularly those designed for families and children. Urban Air aims to fulfill this need by offering an adventure park that goes beyond traditional entertainment venues.

Urban Air, which began in 2011 as a trampoline park, has grown into a robust franchise network with over 1,400 locations, generating more than \$800 million in annual revenue. Today, Urban Air parks have transformed into full-fledged adventure parks, featuring a range of engaging and educational attractions, including:

- **Snapology:** A hands-on educational experience in science, technology, engineering, arts, and math (STEAM).
- **APEX:** A set of trampolines that extends to the wall to do tricks on
- **Mini GoKarts:** Electric Gokarts that produce very little noise and no exhaust
- **Laser Tag:** A team sport, that involves strategy and fun inside of a designated area
- **Adventure Hub-** An indoor slide park
- **Skyryder-** Zip line that flies around the park
- **Climbing walls-** Climbing one of our climbing walls is a great way to build strength, agility, and confidence – all with the safety of a harness
- **Flip Zone-** The ultimate bumper car experience
- **Leap of Faith-** Climbing to top of a platforms and then have your chance to play out your greatest super hero fantasy and leap while secured to a harness
- **Warrior Course-** For all the little Ninjas an obstacle course to test there skills



- **Unique Attractions:** There are an array of attractions such as, Go-karts, aerial and acrobatic attractions, indoor skydiving, climbing walls, ninja courses, zip lines, soft play areas, and more.
- **Eatery:** Allows patrons who paid for entry to the park to eat concessions and to make a fun family outing for the day. As well as providing food, limited menu, for birthday parties and family parties.

This variety of activities makes Urban Air more than just an amusement center—it is a destination for active family outings, school events, and birthday celebrations. The park provides a secure, supervised, and affordable environment for families, meeting the community’s need for safe and engaging recreational opportunities.

2. That such use will not, under any circumstances, be detrimental to the health, safety, morals, or general welfare of persons residing or working in the vicinity.

Urban Air is committed to ensuring that its presence will enhance the community without compromising the health, safety, morals, or general welfare of those living or working nearby. Key considerations include:

- **Safe Parking and Traffic Flow:**
The existing parking lot has adequate capacity to accommodate Urban Air’s expected traffic. Additionally, traffic patterns will align with those of neighboring businesses to minimize disruption.
- **Supervised Environment:**
Urban Air’s adventure park will be fully staffed with not only managerial staff. Urban Air operates with an average of 80 team members, primarily aged 16–21. All staff will receive safety certifications and undergo training to supervise attractions and maintain a secure environment.
- **Employment Opportunities:**
The park will provide part-time employment opportunities, offering roles in areas such as attractions supervision, front desk operations, kitchen staff, and management. These opportunities will foster responsibility and skill development among young adults.
- **Community Gathering Space:**
Urban Air provides a supervised space for children and adolescents to engage in active play and socialize, making it a valuable addition to the area.

Urban Air will comply with all local health and safety regulations, ensuring the park operates as a secure and family-friendly destination.



3. That the proposed use will comply with the regulations and conditions specified in this ordinance for such use, and with the stipulations and conditions made a part of the authorization granted by the Village Board of Trustees.

Urban Air is dedicated to maintaining full compliance with all local and state regulations, including those governing the maintenance and licensing of attractions.

Urban Air will gather all necessary permits, including but not limited to, C of O, Building, Fire alarm, Fire sprinkler, Health Department and life safety.

Urban Air is asking for a parking variance to allow for

The proposed adventure park will meet all stipulations and conditions outlined in the ordinance and will adhere to any additional requirements set forth by the Village Board of Trustees. Urban Air's strong track record of compliance across its 1,400+ locations demonstrates its commitment to maintaining the highest operational standards.

4. Urban Air is requesting a variance to the Villages parking requirement

- **Safe Parking and Traffic Flow:**

The existing parking lot has adequate capacity to accommodate Urban Air's expected traffic. Additionally, traffic patterns and times will align with those of neighboring businesses to minimize disruption.

- **Current parking with existing tenants:**

Currently in a 250 feet radius there is-

- a. Five Furniture & Outlet
- b. Formally, The Room Place, recently went out of business in the center, adjacent parking lot (Parking lot D)
- c. Formally, Olsen Rug, recently went out of business in the center
- d. Formally, Harvest Fresh Markets, recently went out of business in the center

- **Peak parking times**

- Traffic study outlines that peak traffic hours are from the hours of 6pm and 8pm during weekdays, and 1:30 – 3:30 pm on weekends.



- Max amount of spaces used per hour at an existing Urban Air is 35 max, and 29 is the mean of occupied spaces during the weekday, and max 89, and 21 is the mean of occupied spaces during the weekend.
- **Urban Air is not a destination restaurant:**
The park does not provide an option to just dine in and not attend the park amusements. The same people who will be using the amusement park will also be allowed to dine at the café. No outside guest is allowed to just use the park as an eatery.

5. The proposed use will not alter the essential character of the locality and will be compatible with existing uses and zoning of nearby property.

The proposed adventure park will be housed in an existing retail space, requiring no significant exterior modifications. The property resides in one of two larger retail buildings at the corner of Rand Rd and Arlington Heights Rd, ensuring its compatibility with the surrounding commercial area.

Key features:

- **Adequate Parking:** The parking lot has ample capacity for Urban Air's use based off the parking lot study.
- **Hours of Operation:** Business hours will align with neighboring businesses, ensuring minimal disruption.
- Hours of operation are-
 - M-Thurs – 4pm-9pm
 - Friday – 4pm-10pm
 - Saturday – 10am-10pm
 - Sunday – 10am-9pm

These hours are subjected to change around the holidays.

- **Employment Opportunities:** Local residents will benefit from part-time and management-level employment opportunities.

Urban Air will enhance the area's family-friendly appeal, providing a safe and fun destination for children while supporting local economic growth.

6. The proposed variation is in harmony with the spirit and intent of this Chapter.



Urban Air's use of the property aligns with the Chapter's goals of fostering a safe, vibrant community. By providing families with an active and engaging entertainment option, Urban Air addresses a critical need for recreational activities in Arlington Heights.

Additionally, Urban Air intends to make this its best location yet, yet understands that parking is a vital key to their success. The study shows this location has ample parking based off

7. The variance requested is the minimum variance necessary to allow reasonable use of the property.

The proposed use leverages existing infrastructure and requires minimal modifications to the retail space. Urban Air's plan to revitalize a vacant property aligns with the goals of the zoning ordinance, creating an opportunity to enhance the community's economic and recreational landscape.

A detailed floor plan is attached. While minor adjustments may be made during the plan review process, the overall layout aligns with the existing space and operational needs.

8. The plight of the owner is due to unique circumstances, which may include the length of time the subject property has been vacant as zoned.

The subject space has faced unique challenges that have contributed to its prolonged vacancy. Following the departure of the long-term tenant, the space of this magnitude is difficult to lease due to its size, layout, and the associated costs of owning and operating a business of this size. The existing grocery store next to the proposed UA has recently vacated which and now the parking center is currently missing two large anchors for the center.

The property's specific zoning and characteristics have limited its appeal to traditional retail or office tenants. Additionally, the expenses tied to maintaining and marketing the space have posed challenges for the owner in attracting suitable tenants who can fully utilize and sustain operations in this location.

Urban Air's proposed use provides a valuable solution to these challenges by bringing a vibrant, family-oriented business to the property. This use not only aligns with the community's needs but also revitalizes a commercial space that has remained underutilized, ensuring the property contributes positively to the Arlington Heights economy.



This unique combination of circumstances justifies the request for a special use permit and demonstrates the need for flexibility in leasing this property to a use that aligns with both the owner's and the community's goals.

Conclusion:

Urban Air's adventure park will bring tremendous value to the Arlington Heights community by providing a safe, family-friendly environment for recreation and development. We are excited about the opportunity to work with the Village to bring this project to life.

Thank you for your consideration. Should you require additional information or have any questions, please do not hesitate to contact us.

Sincerely,

Nino Hermes

Nino Hermes

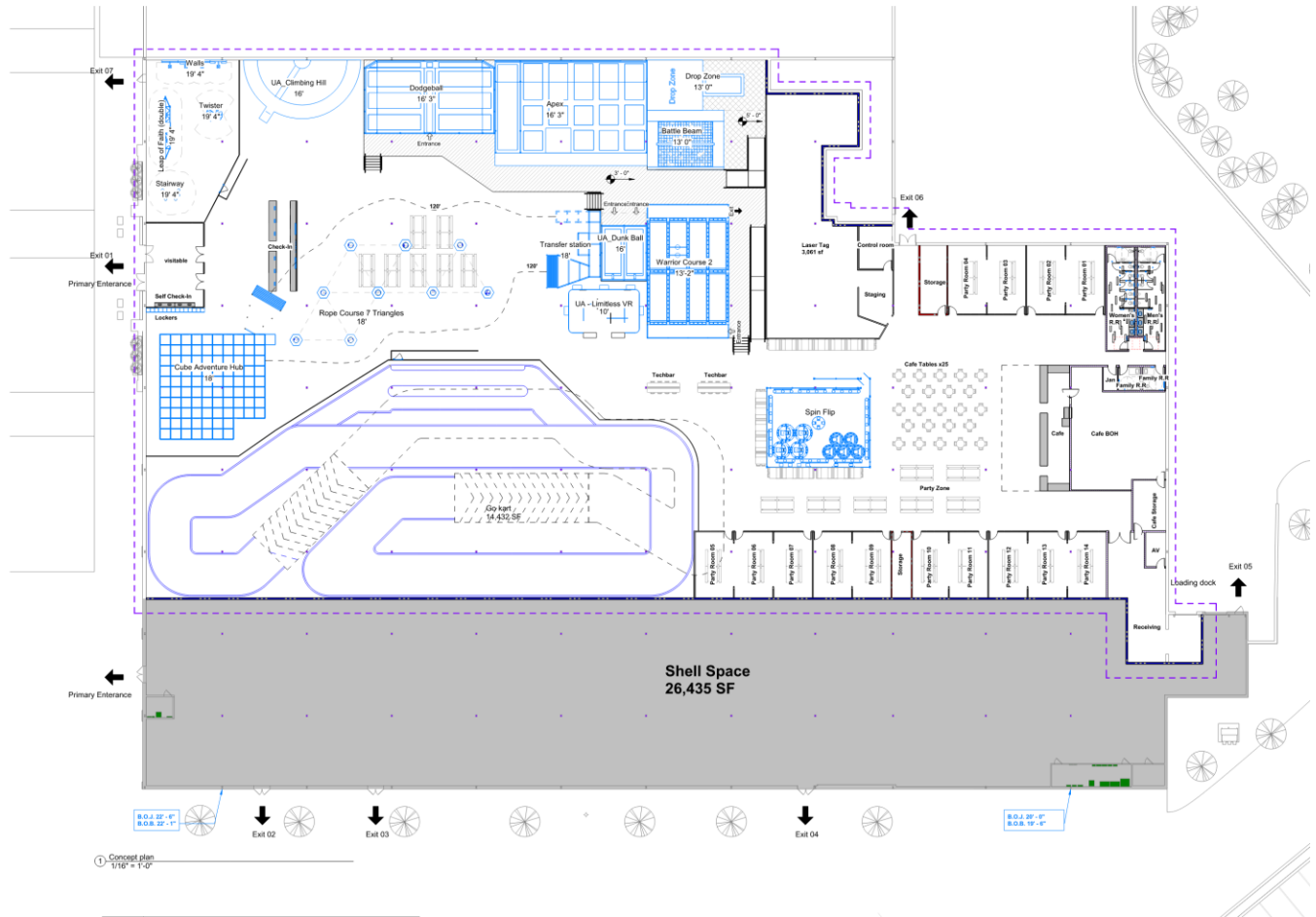
Response to Comments:

Dan Osoba
Department: Planning & Community Development
Fire Number: PC24-017
Project: Urban Air at Arlington
Review Round: Round 1
Date: 12/23/24

- 1.) Urban Air is currently seeking Special use approval for Large Amusement, Restaurant and a parking variance.
- 2.) The response has been uploaded to the portal with all necessary documentation
- 3.) A plan fee will be paid, once we receive the invoice.
- 4.) Very little noise occurs due to GoKarts, as they are electric karts and do not make any emissions,



and no noise while “running”. The loudest noise generated is due to kids playing and having fun and a 1 hour rated wall provides an STC rating of 50-55. Music for the space, is confined to the party rooms during celebrations.







The Urban Air Adventure Park in Arlington Heights marks an exciting addition to the vibrant landscape of family entertainment venues in the Chicagoland area. Situated in a newly developed complex, the project entails the creation of two tenant spaces within a large commercial building: one designated for Urban Air Adventure Park and the other currently planned to remain vacant for future development.

The Urban Air Adventure Park occupies a spacious 30,000 square feet within the complex, emphasizing a blend of exhilarating activities and family-friendly attractions. The adjacent tenant space, spanning 10,000 square feet, is slated for future use and will complement the overall appeal of the development.

Urban Air Adventure Park is renowned for its dynamic indoor attractions that cater to all ages. Originating from its Texas roots, Urban Air has expanded across the United States, with notable locations in nearby Chicagoland areas such as Naperville and Schaumburg. Each location is celebrated for its thrilling rides, engaging activities, and commitment to providing a safe, fun environment for families and groups.

At the Arlington Heights location, Urban Air Adventure Park will feature an extensive array of attractions including:

- Food concessions offering a variety of snacks and refreshments.
- Alcohol sales in designated areas for adult guests.
- Laser tag arenas with state-of-the-art equipment.
- Climbing walls of varying difficulty levels.
- Dedicated party rooms for birthdays and special events.
- Virtual reality experiences and arcade games.

The park will operate on an open-access basis, welcoming walk-in visitors and offering various membership packages for frequent guests. Reservations will be available for party rooms and certain high-demand attractions to ensure optimal guest experience.

Urban Air Adventure Park in Arlington Heights anticipates hosting a range of events such as corporate team-building gatherings, competitive tournaments, and themed birthday parties complete with personalized packages and dedicated party hosts.

Guests can enjoy a selection of concessions including classic favorites like pizza, burgers, and soft drinks, along with healthier options to accommodate diverse preferences.

The park will operate seven days a week with extended hours to accommodate both daytime and evening visitors, fostering flexibility for families, groups, and corporate outings alike.

Approximately 50 employees will be hired initially, with peak shifts during weekends and holidays requiring up to 25 staff members on duty simultaneously to ensure efficient operation and guest satisfaction.

Exterior enhancements for the complex may include signage that reflects the dynamic and inviting atmosphere of Urban Air Adventure Park, enhancing its visibility and appeal within the community.

In conclusion, Urban Air Adventure Park in Arlington Heights promises to be a cornerstone of family entertainment, combining innovative attractions with a commitment to safety and customer service. Its strategic location within a growing commercial hub underscores its role as a destination for local residents and visitors seeking memorable experiences and wholesome fun.

Market Study: November 19th, 2024

Revised: 1/6/25

Village of Arlington Heights

Department of Planning & Community Development
33 South Arlington Heights Road
Arlington Heights, IL 60025

RE: Market Study: 30 W Rand Rd, Arlington Heights, IL 60004

Dear Department of Planning & Community Development,

Enclosed, please find comprehensive marketing information prepared by Second Elite Amusement and Urban Air franchise. This information was instrumental in evaluating the placement of an Urban Air location at 30 W Rand Rd, Arlington Heights, IL. The data presented supports our request for a **Special Use Permit** to open an Urban Air franchise at this site and highlights the potential for a complementary use of the neighboring tenant space.

Arlington Heights: A Prime Location for Urban Air

Arlington Heights has a robust population of approximately 77,000, of which 23% are under the age of 19. Surrounding suburbs, including Palatine, Mt. Prospect, Prospect Heights, Buffalo Grove, and Rolling Meadows, collectively have an estimated population of 202,000, with an average of 24% being under the age of 19. This results in an estimated 50,000–60,000 children under the age of 18 in the immediate area.

The nearest comparable family amusement park to Urban Air is located in Schaumburg, approximately 11.3 miles away, making 30 W Rand Rd a strategic location to fill the gap in family-friendly active entertainment in this region.

Supporting Demographics:

- **Population Data:**
 - Within 1 mile: 13,130
 - Within 2 miles: 55,481
 - Within 3 miles: 127,386
- **Households:**
 - Within 1 mile: 4,921
 - Within 2 miles: 22,775
 - Within 3 miles: 51,933

- **Income Levels:**
 - Average household income within 1 mile: \$164,995
 - Average household income within 2 miles: \$144,913
 - Average household income within 3 miles: \$130,039
- **Transportation Habits:**
 - Within 1 mile: 64.6% of residents drive to work
 - Within 2 miles: 63.7% of residents drive to work
 - Within 3 miles: 68.4% of residents drive to work
- **Consumer Restaurant Expenditures:**
 - Within 1 mile: \$75.89M annually
 - Within 2 miles: \$322.76M annually
 - Within 3 miles: \$674.26M annually

Competitive Landscape and Urban Air's Unique Offering

- **Existing Competitors:**
 - **Chuck E. Cheese (Arlington Heights):** Located 0.2 miles away, catering to children aged 3–6 with an arcade and ticket redemption model.
 - **Kid Empire (Palatine):** Located 3.1 miles away, catering to children aged 1–6 with attractions like an obstacle course, building blocks, a dance room, and slides.
 - **Sky High Trampoline Park (Schaumburg):** Located 11.3 miles away.

Urban Air distinguishes itself with a broader age range (5 years to high school) and an emphasis on active, engaging attractions, such as go-karts, laser tag, virtual reality, trampolines, ninja courses, zip lines, obstacle courses, rock climbing, bumper cars, ropes courses, and slides. Unlike competitors, Urban Air focuses on physical activity and experiential entertainment rather than passive or digital games.

Neighboring Tenant Space: A Versatile Opportunity

The neighboring space, comprising approximately 26,436 sq. ft. with 69 linear feet of storefront frontage, presents excellent potential for various uses under the current B-2 zoning designation. Proposed uses include a racquetball facility, fitness center, or similar concepts targeting the active adult demographic (ages 18–64), which represents 65% of Arlington Heights' population.

Competitive Landscape for Fitness/Racquetball Facilities:

- **Arlington Heights Park District:** Offers 10 courts for mixed-use racquetball and tennis.
- **Midtown Athletic Club:** Features 3 tennis courts, yoga, weightlifting, swimming, and other amenities through membership.
- **Northbrook Racquet Club (Northbrook):** Operates 8 indoor courts with lessons and memberships.
- **Glenbrook Racquet Club:** Offers 6 racquetball courts with memberships and league opportunities.

Also possible uses could include splitting to smaller spaces for small retail. Either beauty salon, or health and wellness such as waxing studio, eye lash studio, and possibility of other youth enrichment brands that fall under the Unleashed brands umbrella. Some of these ideas would include Martial arts studio, college planning(tutoring) or little gyms.

- Currently there is a strong location of Premier Martial arts in the Arlington Heights downtown and this would provide an additional studio opportunity for that franchisee.
- As well as providing the youth in the area for a close and easy to get to tutoring option. The closest tutoring option is only for the study of math, known as the Mathnasium. Unleashed brands “ Class 101 College planning for success” is an alternative option that would be a great fit for this location
- Health and Beauty, either Sola Salons studios, and or, waxing or eye lash studio would be a convenient fit that allows for smaller retail to be utilized. Currently there is a Salo Salon of Evergreen ave, and this would provide an ideal location for that is outside of the heart of the down town.

Proposed Use Benefits:

A fitness or racquetball facility would complement existing sports and fitness facilities in the region while filling an identified gap in Arlington Heights proper. Currently, there are limited league memberships or dedicated racquetball opportunities within Arlington Heights itself. A facility of this type would provide a unique leisure/fitness option, attract an underserved segment of the population, and enhance the area’s reputation as a hub for recreational activities.

Summary of Value Proposition:

The inclusion of Urban Air and the potential fitness/racquetball facility at 30 W Rand Rd provides:

- A destination for family-friendly active entertainment, addressing a gap in the market.
- A complementary use for the neighboring space that aligns with Arlington Heights' demographic and community needs.
- Economic growth opportunities through increased consumer activity, job creation, and utilization of existing retail space.

We believe these developments align with the Village's vision for sustainable and community-centric growth.

Thank you for your time and consideration of this proposal. Should you require any additional information or have further questions, please do not hesitate to contact me.

Sincerely,

Nino Hermes

Response to Comments

Date: 1/2/25

Markey study questions:

- 1.) Would a recreational type use, such as the ones listed in the market study, be acceptable to the shopping center owner/or tenants already in the center? Given the other "health club" type uses or gyms that occupy space with Arlington Plaza.**

Answer: Currently there is no restriction for sports/club sports for the shopping center.

- 2.) Is there a possibility of further splitting the space into smaller tenant spaces? If so, would there be the possibility of other personal services such as beauty salons or commercial uses such as restaurants?**

Answer: Currently the property owner has no restrictions or exclusivity with any existing tenant for a beauty salon or restaurant. There is a real possibility of a beauty salon that has been discussed with the owner of the property and at this time there is no plan for a restaurant or possible future restaurant.

- 3.) Would there be any restrictions on types of uses allowed from the shopping center (separate from zoning requirements)? If so, please provide a list of prohibited uses for review.**

Answer: Please see below restricted uses for the center.

Arby's:

Landlord agrees, during the Term of this Lease and any Extensions thereof, and so long as Tenant is open for business using the Premises for a restaurant (excepting the closure of the Tenant's building on the Premises for reasonable repair, maintenance, alterations or other causes beyond control of Tenant), not to rent the Landlord's Tract or any portion of the Shopping Center to another tenant of five thousand (5,000) square feet or less whose primary use is the sale of roast beef sandwiches. "Primary use" is defined as a use in which more than fifty per cent (50%) of a tenant's gross sales are derived from that use. This restriction shall not apply to any existing tenants of the Landlord's Tract or the Shopping Center as of the Effective Date whose leases might permit them to violate this non-competition provision of the Lease and it shall not apply to any tenant of greater than five thousand (5,000) square feet. Furthermore, Landlord agrees, during the term of this Lease and any extensions thereof not to erect any improvements on Landlord's Tract and/or the Shopping Center which will materially interfere with access to Tenant's restaurant or the visibility of Tenant's signs to approaching automobile traffic traveling on adjoining highways or streets except if required by governmental authority.

The Room Place:

Landlord agrees not to lease to another tenant whose primary business is the sale or leasing of furniture. Primary business is defined as fifty (50%) percent or more of the floor area devoted to such business. Tenants under 5,000 square feet and existing tenants or their successors are exempt from this restriction.

America's Best:

So long as Tenant is not in default under the Lease beyond any applicable grace or cure period and so long as Tenant is operating an "America's Best Contacts & Eyeglasses" store [or a successor store (or trade name) with a substantially similar operation] in the Premises in accordance with the terms of this Lease, Landlord agrees that Landlord shall not lease any portion of the Center (including any kiosk or similar space) to another tenant whose primary use is the sale of contact lenses or eyeglasses or the provision of services by an optometrist (the "Use Restriction"). "Primary use" shall be defined as more than fifty percent (50%) of the store area of such tenant is devoted to one or any combination of the restricted uses. The Use Restriction shall not apply to any existing tenants whose leases do not contain a specific use clause (or to any assignees of any such leases) or to tenants of the Center occupying spaces of 10,000 square feet or more. The Use Restriction shall be included in the Memorandum of Lease to be recorded by Tenant pursuant to the terms of the Lease. Tenant, however, realizes that Four Eyes presently occupies a space in the Shopping Center and has exclusive use provision that will be violated by this Lease. Four Eyes Lease shall terminate on October 31, 2000. Tenant hereby agrees to indemnify and hold Landlord harmless from any and all actions, causes of action, damages

including payment of all of Landlord's costs and reasonable attorneys' fees caused by Landlord's execution of this Lease.

Zip Fitness:

So long as Tenant is open and operating as its intended use pursuant to Section 2.5 and is not in default of any obligations under the Lease, Tenant shall be the exclusive health and fitness club and tanning service provider within the Shopping Center throughout the Lease Term, and Landlord shall not enter into any new leases with other tenants in the Shopping Center allowing any of the uses as described in this section. This section shall apply to any extensions or renewals of the Lease Term except this provision does not apply for tenants occupying the Shopping Center prior to the Effective Date of this Lease with no-use clauses. This exclusive shall not apply to any ancillary uses operating separately and not a part of a health and fitness club (but does include and restricts the operation of a separate tanning service provider).

Should Landlord violate this covenant, Tenant shall have all rights and remedies available at law or in equity, provided, however that in the event another tenant at the Shopping Center breaches the restriction set forth in this Section 24.21 in violation of the provisions of its Lease, Tenant shall give Landlord written notice of such violation. If such violation is not remedied by Landlord within thirty (30) days of Landlord's receipt of such notice (provided, however that in the event another tenant at the Shopping Center breaches the restriction set forth in this Section in violation of the provisions of its lease (a "rouge tenant"), so long as Landlord files suit against the rogue tenant within thirty (30) days of notification by Tenant of a breach of the exclusive and diligently pursues this legal remedy, Tenant's rights and remedies because of the violation of its exclusive by said rouge tenant will be postponed for so long as Landlord is diligently and continuously prosecuting such suit; otherwise, then so long as such violation continues to exist, in lieu of the Minimum Monthly Rent and other charges payable to Landlord pursuant to this Lease, Tenant may elect to pay to Landlord an Alternative Minimum Monthly rent equal to fifty percent (50%) of its Monthly Minimum Rent. If this condition continues for longer than twelve (12) months, Tenant, at its option, may elect to terminate this Lease upon thirty (30) days' notice to Landlord.

In the event any portion of the Shopping Center is subsequently sold or otherwise transferred, Landlord shall ensure by written agreement with such transferee that this covenant shall continue to apply to such transferee.

Community Threads:

Landlord agrees not to lease space in the Shopping Center to any competing thrift store, and represents and warrants to Tenant that Tenant's use of the Premises as a thrift store is no

inconsistent with nor in violation of any other leases in the Shopping Center.

MEMORANDUM TO: Kayleigh Rollins
Foxfield

FROM: Kelly Pachowicz
Consultant

Luay Aboona, PE, PTOE
Principal

DATE: September 20, 2024

SUBJECT: Parking and Traffic Evaluation
Proposed Urban Air Adventure Park
Arlington Heights, Illinois

This memorandum summarizes the results of a parking and traffic evaluation prepared by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for the proposed Urban Air Adventure Park to be located within the Arlington Plaza shopping center located on the north side of Rand Road (US 12) west of Arlington Heights Road. As proposed, the Urban Air will occupy the storefront previously occupied by a Burlington retail store. The shopping center provides approximately 886 parking spaces. **Figure 1** shows an aerial view of the site.

The purpose of the traffic and parking evaluation is to evaluate the adequacy of the existing parking supply in accommodating the parking demand of the proposed Urban Air Adventure Park. In order to do that, the following tasks were undertaken:

- Parking occupancy surveys were conducted by KLOA, Inc. at the Arlington Plaza shopping center on a Thursday, Friday, and Saturday from 11:00 A.M. to 8:00 P.M.
- The existing parking demand was evaluated to determine the adequacy of the current supply in meeting the existing needs of the shopping center.
- The amount of required parking for the Urban Air Adventure Park was estimated based on the following:
 - Village of Arlington Heights Municipal Code
 - Parking ratios published by the Institute of Transportation Engineers (ITE)
 - Parking observations at an existing Urban Air facility
- The existing parking demand was compared to the existing parking supply to determine the adequacy of the parking supply in accommodating the parking needs of the proposed Urban Air Adventure Park.



Aerial View of Site

Figure 1

Parking Occupancy Surveys

In order to determine the existing parking demand at the Arlington Plaza shopping center, parking occupancy surveys were conducted at the parking lots serving the Arlington Plaza on Thursday August 8, Friday August 9 and Saturday August 10, 2024 from 11:00 A.M. to 8:00 P.M. The parking occupancy surveys were collected every hour. The following are descriptions of the parking zones surveyed:

- Zone A is the surface parking lot serving the far north side of the shopping center, to the east of the proposed Urban Air building and north of the building containing The RoomPlace furniture store. This parking lot provides approximately 149 parking spaces.
- Zone B is the surface parking lot fronting the former grocery store space and The RoomPlace furniture store. This parking lot provides approximately 184 parking spaces.
- Zone C is the surface parking lot fronting the former Burlington space/proposed Urban Air Adventure Park space. This parking lot also contains a vacant outlot building which is proposed to be occupied by a coffee shop (by others). This parking lot provides approximately 294 parking spaces.
- Zone D is the surface parking lot on the far northwest side of the shopping center. This parking lot fronts the Amazon returns store, Chinese buffet restaurant, and a thrift store and also contains the Arby's fast-food restaurant outlot. This parking lot fronts Rand Road and provides approximately 259 parking spaces.

Figure 2 shows an aerial of the surveyed parking zones and the location of the proposed Urban Air Adventure Park Space.



Surveyed Parking Zones

Figure 2

The results of the surveys are summarized in **Tables A** through **C**, included in the Appendix.

The following summarizes the results of the parking occupancy surveys:

- On Thursday, the shopping center had an average parking demand of 121 vehicles, which translates into a 14 percent parking occupancy. The peak parking demand of 150 vehicles occurred at 12:00 P.M., which translates into a 17 percent occupancy. As such, and at a minimum, the shopping center has a surplus of 736 parking spaces at any given time on a Thursday.
- On Friday, the shopping center had an average parking demand of 169 vehicles, which translates into a 19 percent parking occupancy. The peak parking demand of 212 vehicles occurred at 12:00 P.M., which translates into a 24 percent occupancy. As such, and at a minimum, the shopping center has a surplus of 674 parking spaces at any given time on a Friday.
- On Saturday, the shopping center had an average parking demand of 151 vehicles, which translates into a 17 percent parking occupancy. The peak parking demand of 201 vehicles occurred at 2:00 P.M., which translates into a 23 percent occupancy. As such, and at a minimum, the shopping center has a surplus of 685 parking spaces at any given time on a Saturday.

KLOA, Inc. further looked at the Zone C parking field, which directly fronts the proposed Urban Air Adventure Park space. Based on a review of the surveys, Zone C had the following parking characteristics:

- On Thursday, Zone C had an average parking demand of 58 vehicles, which translates into a 20 percent parking occupancy. The peak parking demand of 81 vehicles occurred at 6:00 P.M., which translates into a 28 percent occupancy. As such, and at a minimum, Zone C has a surplus of 213 parking spaces at any given time on a Thursday.
- On Friday, Zone C had an average parking demand of 63 vehicles, which translates into a 21 percent parking occupancy. The peak parking demand of 77 vehicles occurred at 12:00 P.M., which translates into a 26 percent occupancy. As such, and at a minimum, Zone C has a surplus of 217 parking spaces at any given time on a Friday.
- On Saturday, Zone C had an average parking demand of 70 vehicles, which translates into a 24 percent parking occupancy. The peak parking demand of 91 vehicles occurred at 12:00 P.M., which translates into a 31 percent occupancy. As such, and at a minimum, Zone C has a surplus of 203 parking spaces at any given time on a Saturday.

Therefore, the results of the surveys indicate that on any given day, there is 75 percent or more of the shopping center parking lot available to accommodate any additional parking needs. The immediate parking area (Zone C) has 69 percent or more of the parking spaces available to accommodate any additional parking needs.

Characteristics of the Proposed Urban Air Adventure Park

As previously indicated, the proposed Urban Air Adventure Park will occupy approximately 66,615 square feet of the former Burlington space within the shopping center. Below is a breakdown of the operational characteristics of the Urban Air Adventure Park:

- Hours of Operation: Monday Through Thursday - 4:00 P.M. to 9:00 P.M.
 Friday - 10 A.M. to 9:00 P.M.
 Saturday - 12:00 P.M. to 8:00 P.M.
- Number of Staff: 60
- Maximum Occupancy: 838 people

Existing Urban Air Adventure Park Parking Survey

In order to determine the parking demand for parking of the proposed Urban Air Adventure Park, a parking occupancy survey at an existing Urban Air facility located in North Riverside, Illinois was conducted. The surveys were conducted on Thursday, August 22, 2024 and Friday, August 23, 2024 from 2:00 P.M. to 8:00 P.M. and on Saturday, August 24, 2024 from 10:00 A.M. to 8:00 P.M. The parking demand was collected every half hour. **Tables D** and **E** in the Appendix show the existing Urban Air Adventure Park parking demand.

Based on the surveys, the peak parking demand on a Thursday was 22 spaces occurring at 7:00 P.M., 35 spaces on a Friday at 7:00 P.M., and 89 spaces on a Saturday at 3:00 P.M. This translates into a peak parking demand of 0.37 spaces per 1,000 square feet on a Thursday, 0.59 spaces per 1,000 square feet on a Friday and 1.52 spaces per 1,000 square feet on a Saturday.

Parking Requirements per Village of Arlington Heights Municipal Code

Based on a review of the Village of Arlington Heights Municipal Code, recreational facilities are required to provide a number of parking spaces that is equal to approximately 30 percent of the maximum occupancy of the facility. Given the maximum occupancy of 838 persons, approximately 215 parking spaces are required for the Urban Air Adventure Park per Municipal Code.

Parking Requirements per ITE Rates

In reviewing parking generation data provided in the *ITE Parking Generation Manual*, 6th Edition, the manual does not have parking data specifically for a trampoline park. However, further inspection of the manual indicates that the Land-Use Code 495 (Recreational Community Center) is the closest land use to the proposed land use as it provides similar activities. Based on the ITE parking rates, the facility will have an average peak parking demand of 1.8 parking spaces per 1,000 square feet of space on Monday through Friday and a rate of 1.79 parking spaces per 1,000 square feet of space on Saturday. Therefore, and based on ITE rates, the facility is anticipated to have a peak parking demand of 120 parking spaces on a weekday and 119 parking spaces on a Saturday.

Overall Parking Evaluation

In order to determine the adequacy of the existing parking supply in meeting the additional parking demand of the Urban Air Adventure Park, an hourly shared parking analysis was conducted based on the results of the existing parking demand and utilizing the surveyed parking rates, the Village of Arlington Heights parking requirements and the ITE parking rates. The hourly distribution of the Urban Air was based on the existing Urban Air facility parking survey. **Tables FA** through **HC** in the Appendix summarize the results of the shared parking analysis for a Thursday, Friday, and Saturday. It is important to note that included in the projected parking demand is the future parking demand of the vacant grocery store space and the proposed coffee shop to occupy the vacant Olson Rug outlet. Bar graphs depicting the parking demand of the parking supply are also included in the Appendix in **Figures A** through **C**.

As can be seen, the projected parking demand by the Urban Air Adventure Park, either utilizing the Village of Arlington Heights requirements, ITE rates, or the parking surveys of the existing facility, can be easily accommodated by the existing parking supply of the shopping center. There will be a surplus of at least 483 parking spaces on a Thursday, 467 parking spaces on a Friday, and 393 parking spaces on a Saturday.

In addition, the adequacy of Zone C, located immediately adjacent to the Urban Air space was also evaluated. **Tables IA** through **KC** included in the Appendix show the parking demand for this zone. As can be seen from the tables, there will be a surplus of at least 5 parking spaces on a Thursday and 14 parking spaces on a Friday. On Saturday and utilizing the Village's parking requirements, Zone C can accommodate at least 198 spaces of the required 215. This means that Zone C can accommodate 92 percent of the required number of parking spaces with the remaining 17 spaces easily accommodated by the other adjacent parking zones. Bar graphs depicting the parking demand of the parking supply of Zone C are also included in the Appendix in **Figures D** through **F**.

Therefore, the parking supply within the Arlington Plaza shopping center will be adequate in accommodating the future parking demand that including existing and future demand as well as the proposed Urban Air Adventure Park.

Traffic Evaluation

The Arlington Plaza shopping center is currently occupied by a variety of retail uses such as a sushi restaurant, barber shop, optometrist, two furniture stores, gym, Amazon returns store, Chinese buffet restaurant, and a thrift store and two outlots. One of the outlots is currently vacant and is proposed to be redeveloped with a coffee shop. Furthermore, there is a vacant space located on the southeast end of the shopping center (approximately 26,000 square feet) that was previously occupied by a grocery store.

Access to the shopping center is provided via three signalized access drives: two off Rand Road and one off Arlington Heights Road. An additional two unsignalized access drives are provided off Rand Road and one off Arlington Heights Road.

Peak Hour Traffic Volumes

The number of peak hour trips estimated to be generated by the proposed facility was based on vehicle trip generation rates contained in *Trip Generation Manual*, 11th Edition, published by the Institute of Transportation Engineers (ITE). The “Trampoline Park” (Land-Use Code 436) rate was utilized for the proposed facility. **Table 1** summarizes the estimated peak hour trips. Given the facility will not be open during the weekday morning peak period, trips were only estimated for the weekday evening and Saturday midday peak hours. It is important to note that the ITE rates are based only on one study for one location and therefore provide a significantly conservative estimate of trip generation, especially when compared to the parking observation study conducted by KLOA, Inc. in North Riverside, Illinois.

Table 1
PROJECTED SITE-GENERATED TRAFFIC VOLUMES

ITE Land-Use Code	Type/Size	Weekday Evening Peak Hour			Saturday Midday Peak Hour		
		In	Out	Total	In	Out	Total
436	Trampoline Park 66,615 S.F.	48	52	100	252	154	406

Trip Generation Comparison

As indicated earlier, the building was previously occupied by a Burlington retail store which was approximately 93,050 square feet in size. The proposed development (not including their storage area) will total approximately 26,435 square feet less than the Burlington. The vehicle trip generation for the former Burlington was calculated utilizing Land-Use Code 875 (Department Store).

Table 2 shows the comparison between the Burlington retail store and the proposed development during the peak hours. As can be seen within the table, the proposed development is expected to generate fewer trips during the weekday evening peak hour and slightly more trips during the Saturday midday peak hour.

Table 2
ESTIMATED TRIP GENERATION COMPARISON

Development	Weekday Evening Peak Hour			Saturday Midday Peak Hour		
	In	Out	Total	In	Out	Total
Urban Air Adventure Park	48	52	100	252	154	406
Burlington	<u>91</u>	<u>90</u>	<u>181</u>	<u>170</u>	<u>151</u>	<u>321</u>
Difference	-43	-38	-81	+82	+3	+85

Access Evaluation

The traffic that is estimated to be generated by the proposed Urban Air Adventure Park will utilize Rand Road and Arlington Heights Road to access the site. When the projected traffic that will be generated by the proposed facility is compared to the traffic on the adjacent roadway system, the proposed facility will not have a detrimental impact on the operation of the existing access drives due to the following:

- The proposed facility will generate lower volumes of traffic compared to the previous use during the evening peak hour and slightly higher volumes during the Saturday midday peak hour.
- There are multiple signalized and unsignalized access points serving the shopping center to effectively distribute traffic to the adjacent roadway system.
- The potential additional traffic anticipated to be experienced during the Saturday midday peak hour can be accommodated with minimal impact to the operation of the shopping center and adjacent roadways given all the multiple access points.

As such, the access system will be adequate in accommodating the traffic that will be generated by the proposed Urban Air Adventure Park.

Conclusion

Based on the results of the parking surveys and the shared parking analysis, the following conclusions have been made:

- The existing parking supply adequately meets and exceeds the existing parking demand of the Arlington Plaza shopping Center.
- With the development of the Urban Air Adventure Park and either applying the Village of Arlington Heights parking code, the ITE parking rates or the parking rates from an existing Urban Air facility and based on the parking occupancy surveys, the overall parking supply will be adequate in accommodating the additional parking demand.
- Based on the parking surveys, Zone C adjacent to the proposed Urban Air adventure Park will be adequate in accommodating all of the projected parking demand and at least 92 percent of the required parking spaces per code (198 out of 215) on a Saturday with the remaining 17 spaces being easily accommodated by the other parking spaces available within the shopping center.
- When the ITE and the existing Urban Air facility parking survey rates are applied, all of the projected parking demand can be accommodated by Zone C.
- The Urban Air Adventure Park will generate traffic volumes that are consistent with the previous land use and can be accommodated by the existing access system.

Appendix

Table A

ARLINGTON PLAZA PARKING OCCUPANCY RESULTS – THURSDAY, AUGUST 8, 2024

Time	Zone				Total	Percent Occupied
	A	B	C	D		
11:00 AM	0	14	52	47	113	13%
12:00 PM	0	14	58	78	150	17%
1:00 PM	1	14	48	54	117	13%
2:00 PM	0	14	46	59	119	13%
3:00 PM	0	13	51	53	117	13%
4:00 PM	2	15	62	69	148	17%
5:00 PM	0	14	62	59	135	15%
6:00 PM	0	10	81	37	128	14%
7:00 PM	0	5	67	31	103	12%
8:00 PM	0	1	53	30	84	9%
Inventory	149	184	294	259	886	

Table B

ARLINGTON PLAZA PARKING OCCUPANCY RESULTS – FRIDAY, AUGUST 9, 2024

Time	Zone				Total	Percent Occupied
	A	B	C	D		
11:00 AM	0	15	67	113	195	22%
12:00 PM	0	15	77	120	212	24%
1:00 PM	0	16	62	128	206	23%
2:00 PM	1	14	60	125	200	23%
3:00 PM	0	19	53	98	170	19%
4:00 PM	0	15	54	90	159	18%
5:00 PM	0	14	74	93	181	20%
6:00 PM	0	8	61	74	143	16%
7:00 PM	2	6	58	57	123	14%
8:00 PM	2	1	60	34	97	11%
Inventory	149	184	294	259	886	

Table C
 ARLINGTON PLAZA PARKING OCCUPANCY RESULTS –
 SATURDAY, AUGUST 10, 2024

Time	Zone				Total	Percent Occupied
	A	B	C	D		
11:00 AM	1	18	82	76	177	20%
12:00 PM	0	19	91	85	195	22%
1:00 PM	3	15	74	94	186	21%
2:00 PM	0	14	92	95	201	23%
3:00 PM	0	16	75	80	171	19%
4:00 PM	0	12	69	74	155	17%
5:00 PM	0	6	56	64	126	14%
6:00 PM	0	5	78	72	155	17%
7:00 PM	0	2	48	43	93	10%
8:00 PM	0	1	32	14	47	5%
Inventory	149	184	294	259	886	

Table D

EXISTING URBAN AIR PARKING OCCUPANCY – WEEKDAY

Time	Thursday, August 22, 2024		Friday, August 23, 2024	
	Spaces Occupied	Percent Occupied	Spaces Occupied	Percent Occupied
2:00 P.M.	0	0%	0	0%
2:30 P.M.	1	1%	0	0%
3:00 P.M.	0	0%	0	0%
3:30 P.M.	2	1%	1	1%
4:00 P.M.	3	1%	3	1%
4:30 P.M.	9	4%	12	6%
5:00 P.M.	13	6%	18	9%
5:30 P.M.	17	8%	25	12%
6:00 P.M.	17	8%	29	14%
6:30 P.M.	20	10%	34	16%
7:00 P.M.	22	11%	35	17%
7:30 P.M.	21	10%	35	17%
8:00 P.M.	6	3%	30	14%
Inventory	207		207	

Table E

EXISTING URBAN AIR PARKING OCCUPANCY – SATURDAY

Time	Saturday, August 24, 2024	
	Spaces Occupied	Percent Occupied
10:00 A.M.	1	1%
10:30 A.M.	3	1%
11:00 A.M.	7	3%
11:30 A.M.	12	6%
12:00 P.M.	14	7%
12:30 P.M.	27	13%
1:00 P.M.	45	22%
1:30 P.M.	69	33%
2:00 P.M.	77	37%
2:30 P.M.	80	39%
3:00 P.M.	89	43%
3:30 P.M.	68	33%
4:00 P.M.	66	32%
4:30 P.M.	60	29%
5:00 P.M.	60	29%
5:30 P.M.	63	30%
6:00 P.M.	80	39%
6:30 P.M.	75	36%
7:00 P.M.	73	35%
7:30 P.M.	68	33%
8:00 P.M.	59	29%
Inventory	207	

Table FA
VILLAGE REQUIREMENTS
PROJECTED TOTAL HOURLY PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	113	58	16	0	187	21%
12:00 PM	150	75	17	0	242	27%
1:00 PM	117	76	15	0	208	23%
2:00 PM	119	81	12	6	218	25%
3:00 PM	117	83	13	11	224	25%
4:00 PM	148	80	14	60	302	34%
5:00 PM	135	83	14	146	378	43%
6:00 PM	128	87	7	181	403	45%
7:00 PM	103	68	7	215	393	44%
8:00 PM	84	34	4	58	180	20%

Table FB
VILLAGE REQUIREMENTS
PROJECTED TOTAL HOURLY PARKING OCCUPANCY – FRIDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	195	89	16	0	300	34%
12:00 PM	212	95	17	0	324	37%
1:00 PM	206	97	15	0	318	36%
2:00 PM	200	95	12	0	307	35%
3:00 PM	170	97	13	4	284	32%
4:00 PM	159	90	14	47	310	35%
5:00 PM	181	93	14	131	419	47%
6:00 PM	143	47	7	194	391	44%
7:00 PM	123	23	7	215	368	42%
8:00 PM	97	12	4	185	298	34%

Table FC

VILLAGE REQUIREMENTS

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	177	57	26	24	284	32%
12:00 PM	195	74	28	49	346	39%
1:00 PM	186	67	24	140	417	47%
2:00 PM	201	74	20	191	486	55%
3:00 PM	171	86	21	215	493	56%
4:00 PM	155	87	23	153	418	47%
5:00 PM	126	46	23	148	343	39%
6:00 PM	155	37	12	187	391	44%
7:00 PM	93	19	12	170	294	33%
8:00 PM	47	11	6	142	206	23%

Table GA

ITE RATES

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	113	58	16	0	187	21%
12:00 PM	150	75	17	0	242	27%
1:00 PM	117	76	15	0	208	23%
2:00 PM	119	81	12	4	216	24%
3:00 PM	117	83	13	6	219	25%
4:00 PM	148	80	14	34	276	31%
5:00 PM	135	83	14	82	314	35%
6:00 PM	128	87	7	101	323	36%
7:00 PM	103	68	7	120	298	34%
8:00 PM	84	34	4	32	154	17%

Table GB
ITE RATES
PROJECTED TOTAL HOURLY PARKING OCCUPANCY – FRIDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	195	89	16	0	300	34%
12:00 PM	212	95	17	0	324	37%
1:00 PM	206	97	15	0	318	36%
2:00 PM	200	95	12	0	307	35%
3:00 PM	170	97	13	2	282	32%
4:00 PM	159	90	14	26	289	33%
5:00 PM	181	93	14	73	361	41%
6:00 PM	143	47	7	108	305	34%
7:00 PM	123	23	7	120	273	31%
8:00 PM	97	12	4	103	216	24%

Table GC
ITE RATES
PROJECTED TOTAL HOURLY PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	177	57	26	13	273	31%
12:00 PM	195	74	28	27	324	37%
1:00 PM	186	67	24	77	354	40%
2:00 PM	201	74	20	106	401	45%
3:00 PM	171	86	21	119	397	45%
4:00 PM	155	87	23	84	349	39%
5:00 PM	126	46	23	82	277	31%
6:00 PM	155	37	12	104	308	35%
7:00 PM	93	19	12	94	218	25%
8:00 PM	47	11	6	79	143	16%

Table HA

EXISTING URBAN AIR SURVEY RATES

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	113	58	16	0	187	21%
12:00 PM	150	75	17	0	242	27%
1:00 PM	117	76	15	0	208	23%
2:00 PM	119	81	12	1	213	24%
3:00 PM	117	83	13	1	214	24%
4:00 PM	148	80	14	7	249	28%
5:00 PM	135	83	14	17	249	28%
6:00 PM	128	87	7	21	243	27%
7:00 PM	103	68	7	25	203	23%
8:00 PM	84	34	4	7	129	15%

Table HB

EXISTING URBAN AIR SURVEY RATES

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – FRIDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	195	89	16	0	300	34%
12:00 PM	212	95	17	0	324	37%
1:00 PM	206	97	15	0	318	36%
2:00 PM	200	95	12	0	307	35%
3:00 PM	170	97	13	1	281	32%
4:00 PM	159	90	14	9	272	31%
5:00 PM	181	93	14	24	312	35%
6:00 PM	143	47	7	36	233	26%
7:00 PM	123	23	7	40	193	22%
8:00 PM	97	12	4	34	147	17%

Table HC

EXISTING URBAN AIR SURVEY RATES

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand	Former Grocery Store	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	177	57	26	11	271	31%
12:00 PM	195	74	28	23	320	36%
1:00 PM	186	67	24	66	343	39%
2:00 PM	201	74	20	90	385	43%
3:00 PM	171	86	21	101	379	43%
4:00 PM	155	87	23	72	337	38%
5:00 PM	126	46	23	70	265	30%
6:00 PM	155	37	12	88	292	33%
7:00 PM	93	19	12	80	204	23%
8:00 PM	47	11	6	67	131	15%

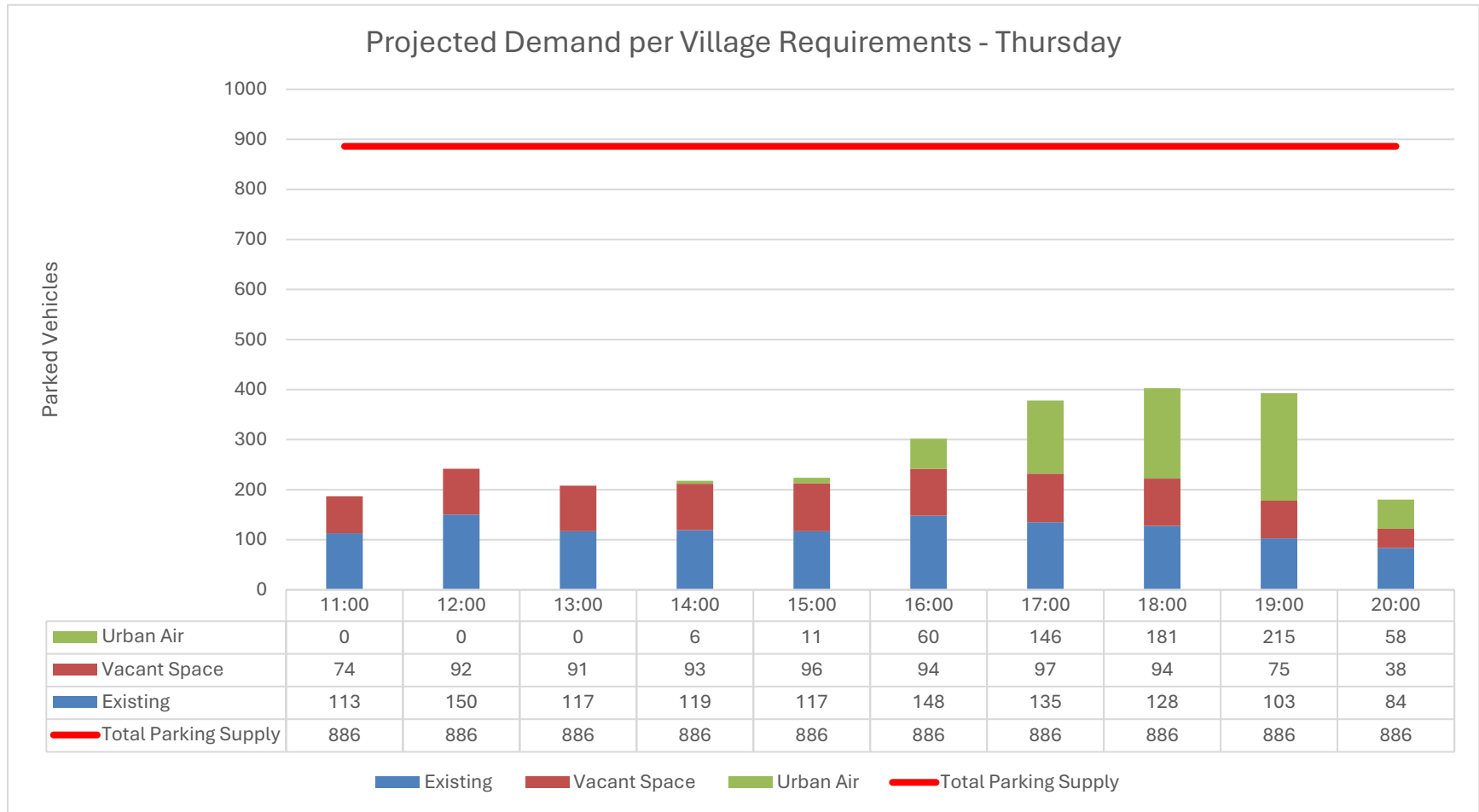


Figure A

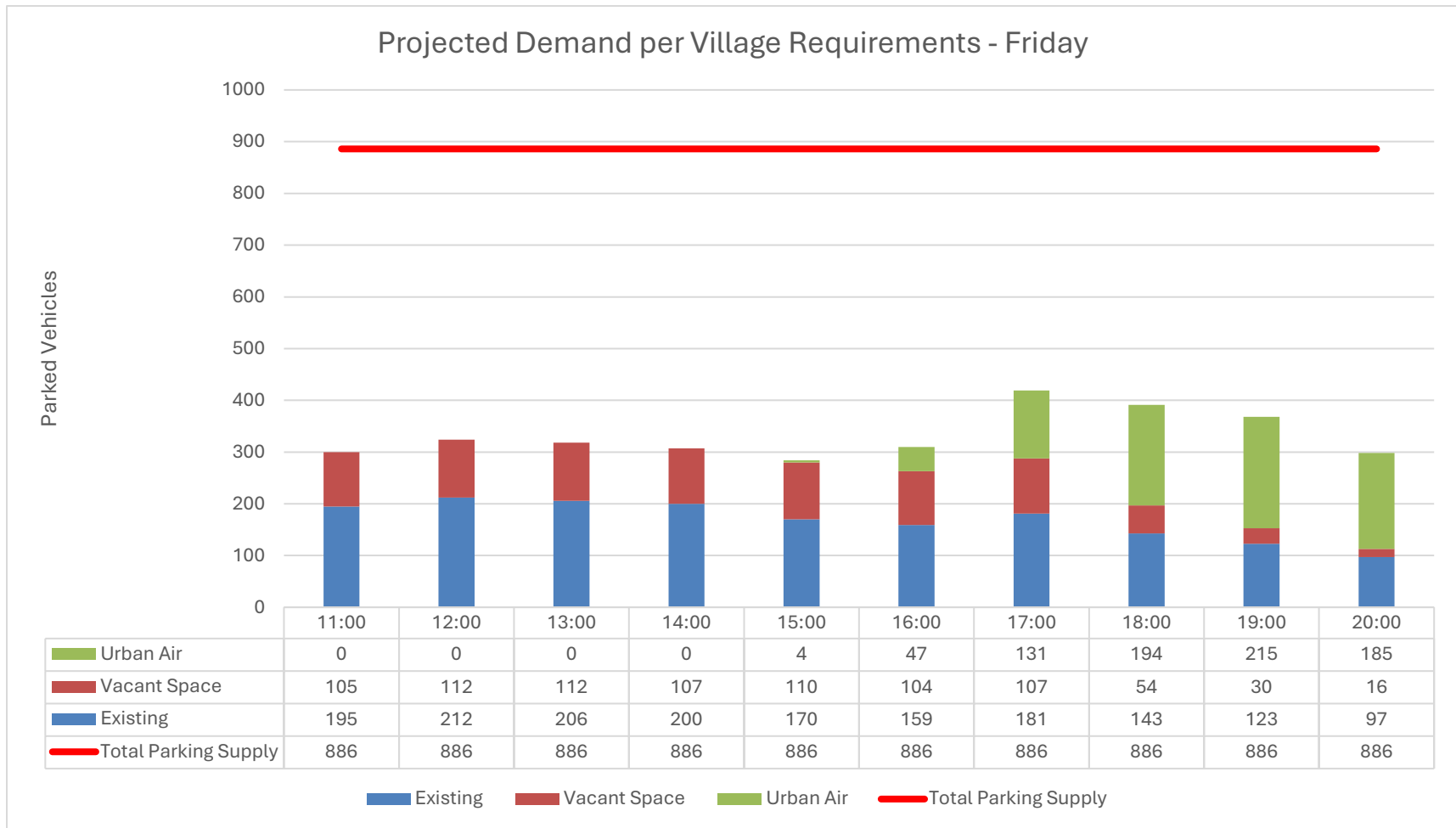


Figure B

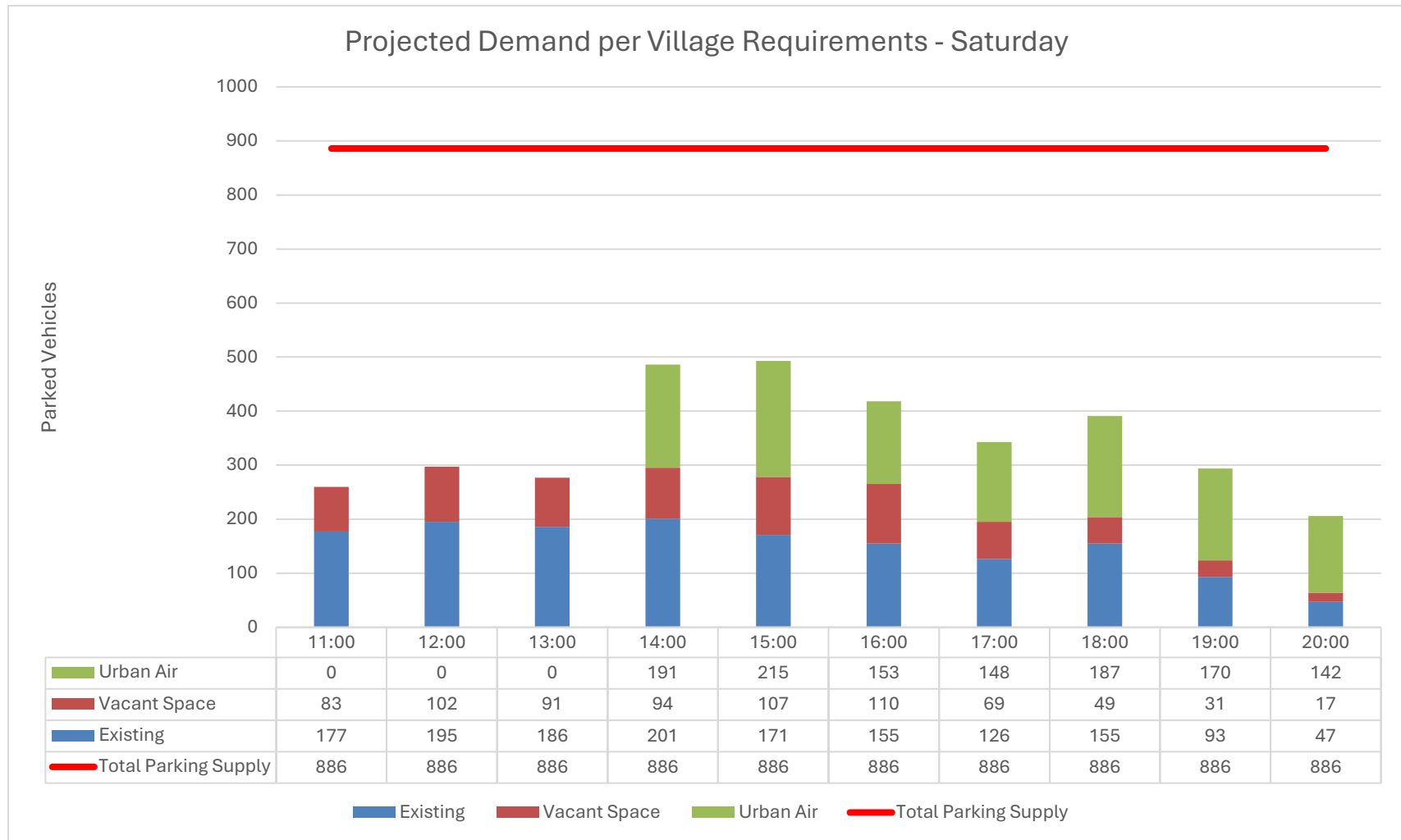


Figure C

Table IA

VILLAGE REQUIREMENTS – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	52	16	0	68	23%
12:00 PM	58	17	0	75	26%
1:00 PM	48	15	0	63	21%
2:00 PM	46	12	6	64	22%
3:00 PM	51	13	11	75	26%
4:00 PM	62	14	60	136	46%
5:00 PM	62	14	146	222	76%
6:00 PM	81	7	181	269	91%
7:00 PM	67	7	215	289	98%
8:00 PM	53	4	58	115	39%

Table IB

VILLAGE REQUIREMENTS – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – FRIDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	67	16	0	83	28%
12:00 PM	77	17	0	94	32%
1:00 PM	62	15	0	77	26%
2:00 PM	60	12	0	72	24%
3:00 PM	53	13	4	70	24%
4:00 PM	54	14	47	115	39%
5:00 PM	74	14	131	219	74%
6:00 PM	61	7	194	262	89%
7:00 PM	58	7	215	280	95%
8:00 PM	60	4	185	249	85%

Table IC

VILLAGE REQUIREMENTS – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	82	26	24	132	45%
12:00 PM	91	28	49	168	57%
1:00 PM	74	24	140	238	81%
2:00 PM	92	20	191	303	103%
3:00 PM	75	21	215	311	106%
4:00 PM	69	23	153	245	83%
5:00 PM	56	23	148	227	77%
6:00 PM	78	12	187	277	94%
7:00 PM	48	12	170	230	78%
8:00 PM	32	6	142	180	61%

Table JA

ITE RATES – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	52	16	0	68	23%
12:00 PM	58	17	0	75	26%
1:00 PM	48	15	0	63	21%
2:00 PM	46	12	4	62	21%
3:00 PM	51	13	6	70	24%
4:00 PM	62	14	34	110	37%
5:00 PM	62	14	82	158	54%
6:00 PM	81	7	101	189	64%
7:00 PM	67	7	120	194	66%
8:00 PM	53	4	32	89	30%

Table JB

ITE RATES – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – FRIDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	67	16	0	83	28%
12:00 PM	77	17	0	94	32%
1:00 PM	62	15	0	77	26%
2:00 PM	60	12	0	72	24%
3:00 PM	53	13	2	68	23%
4:00 PM	54	14	26	94	32%
5:00 PM	74	14	73	161	55%
6:00 PM	61	7	108	176	60%
7:00 PM	58	7	120	185	63%
8:00 PM	60	4	103	167	57%

Table JC

ITE RATES – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	82	26	13	121	41%
12:00 PM	91	28	27	146	50%
1:00 PM	74	24	77	175	60%
2:00 PM	92	20	106	218	74%
3:00 PM	75	21	119	215	73%
4:00 PM	69	23	84	176	60%
5:00 PM	56	23	82	161	55%
6:00 PM	78	12	104	194	66%
7:00 PM	48	12	94	154	52%
8:00 PM	32	6	79	117	40%

Table KA

EXISTING URBAN AIR SURVEY RATES – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	52	16	0	68	23%
12:00 PM	58	17	0	75	26%
1:00 PM	48	15	0	63	21%
2:00 PM	46	12	1	59	20%
3:00 PM	51	13	1	65	22%
4:00 PM	62	14	7	83	28%
5:00 PM	62	14	17	93	32%
6:00 PM	81	7	21	109	37%
7:00 PM	67	7	25	99	34%
8:00 PM	53	4	7	64	22%

Table KB

EXISTING URBAN AIR SURVEY RATES – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – FRIDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	67	16	0	83	28%
12:00 PM	77	17	0	94	32%
1:00 PM	62	15	0	77	26%
2:00 PM	60	12	0	72	24%
3:00 PM	53	13	1	67	23%
4:00 PM	54	14	9	77	26%
5:00 PM	74	14	24	112	38%
6:00 PM	61	7	36	104	35%
7:00 PM	58	7	40	105	36%
8:00 PM	60	4	34	98	33%

Table KC

EXISTING URBAN AIR SURVEY RATES – ZONE C

PROJECTED TOTAL HOURLY PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand Zone C	Proposed Coffee Shop	Proposed Urban Air	Total Projected Occupancy	Percent Occupied
11:00 AM	82	26	11	119	40%
12:00 PM	91	28	23	142	48%
1:00 PM	74	24	66	164	56%
2:00 PM	92	20	90	202	69%
3:00 PM	75	21	101	197	67%
4:00 PM	69	23	72	164	56%
5:00 PM	56	23	70	149	51%
6:00 PM	78	12	88	178	61%
7:00 PM	48	12	80	140	48%
8:00 PM	32	6	67	105	36%

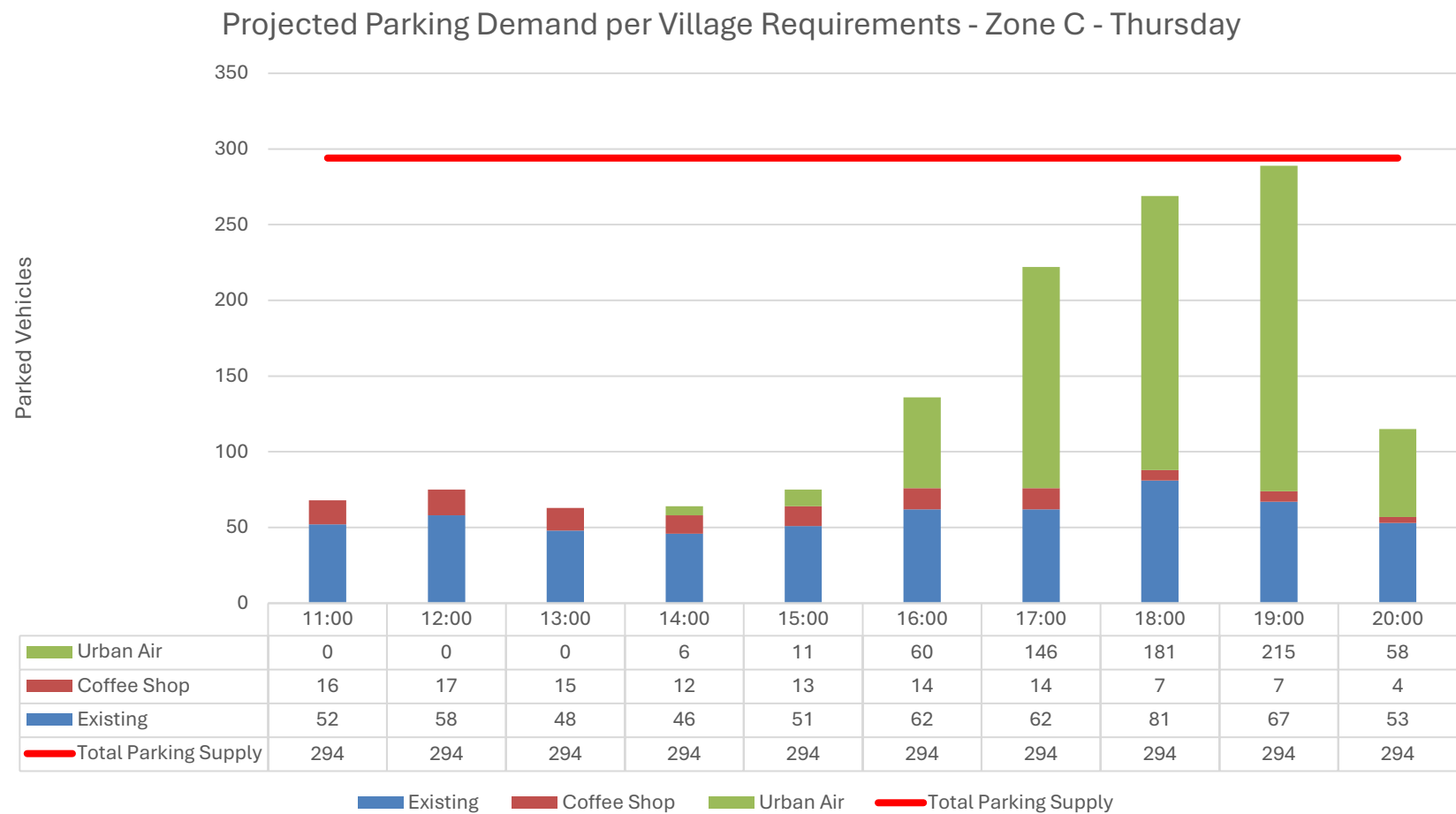


Figure D

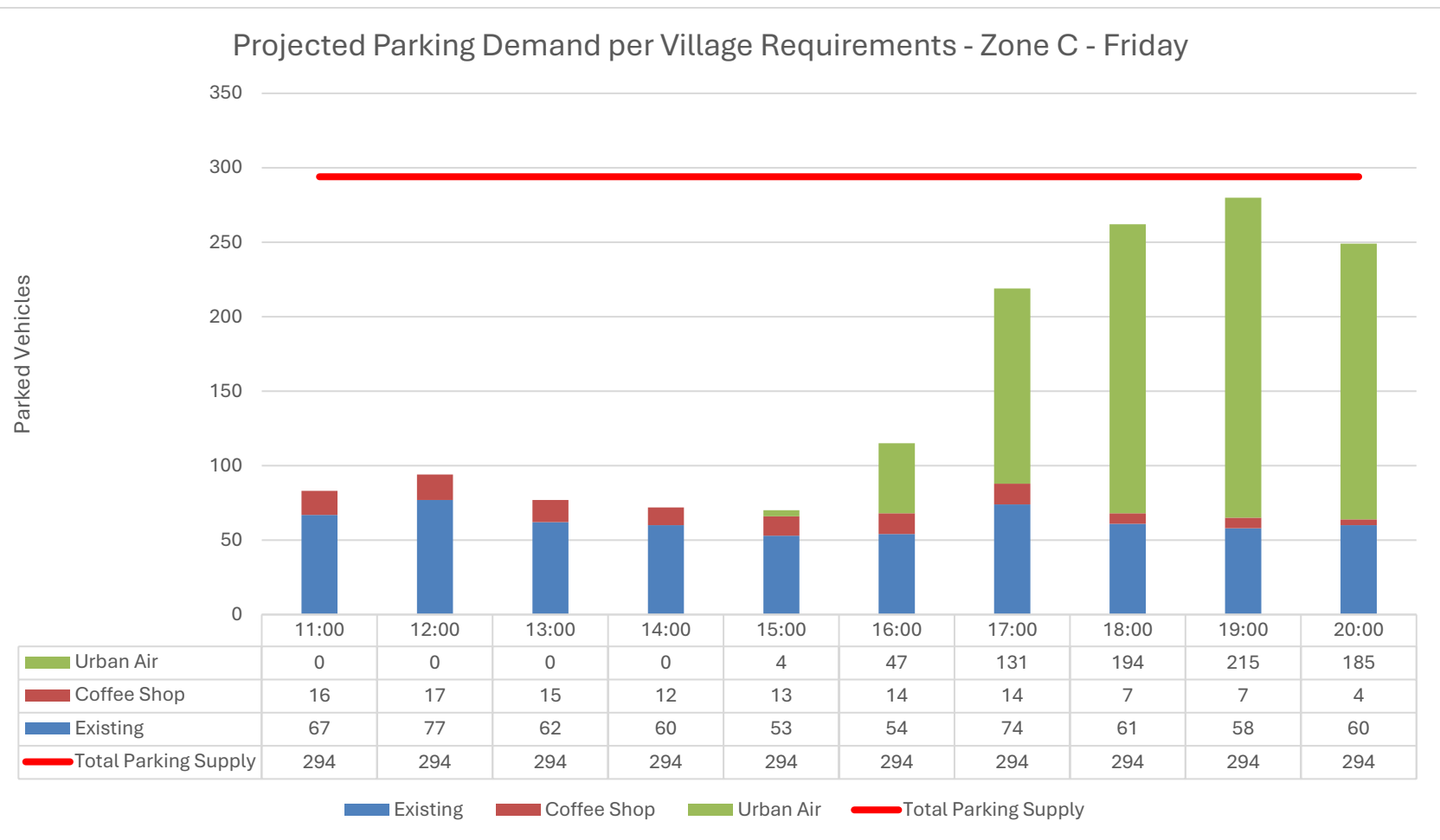


Figure E

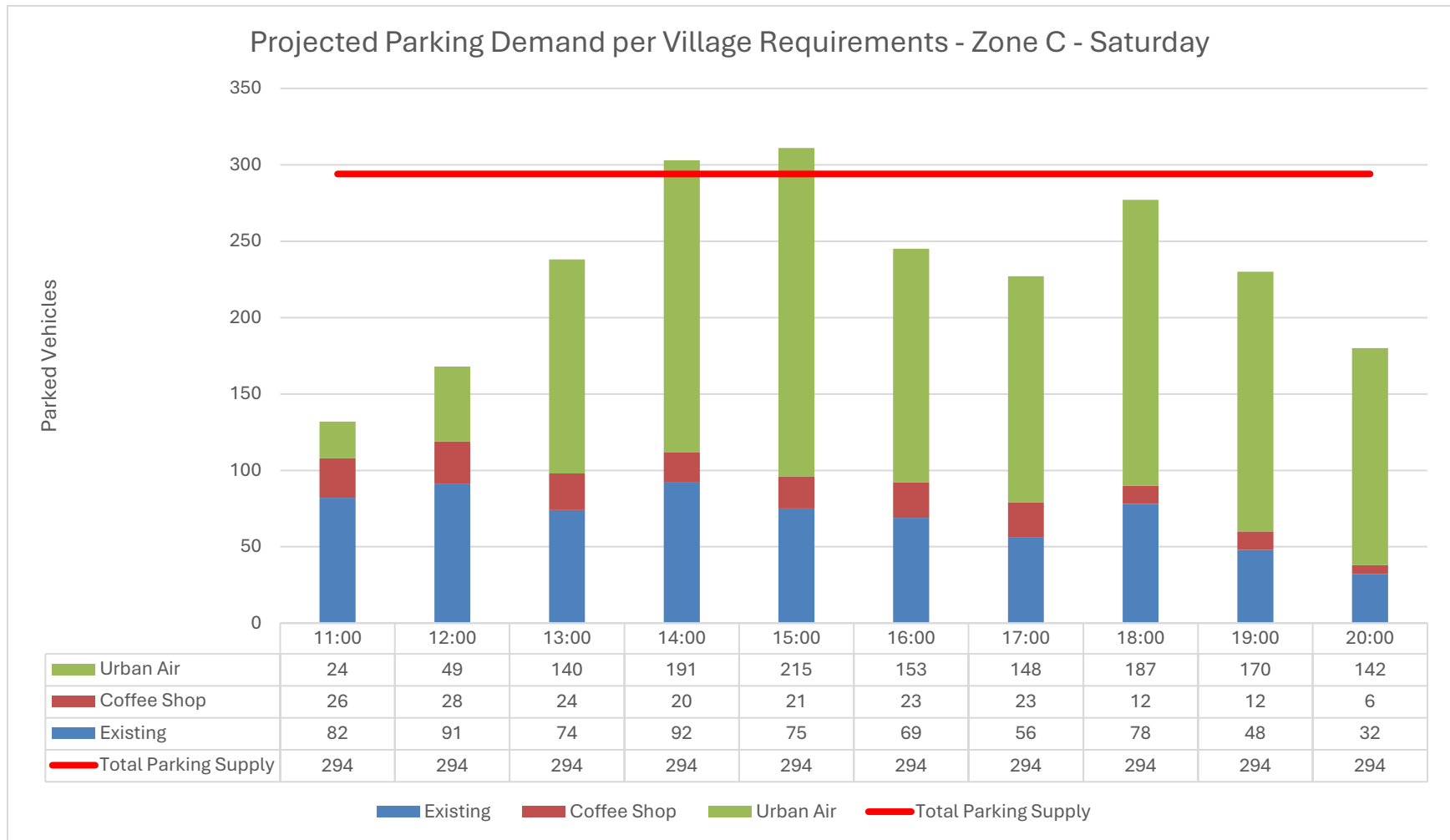
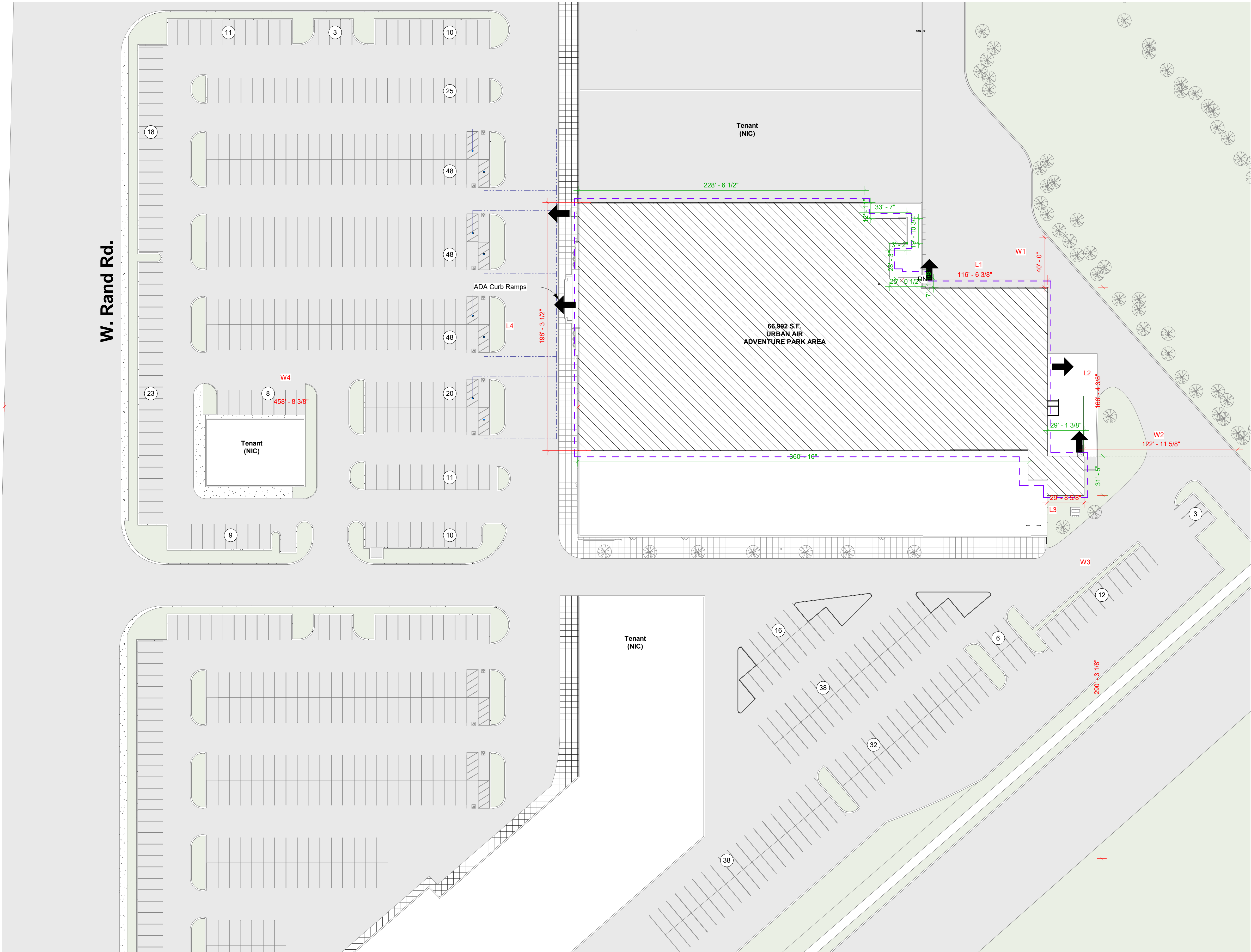


Figure F



1 Existing Site Plan
1" = 40'-0"

Frontage Increase Calculation

506.3.2 Minimum Frontage Distance

$$W = (L1 \cdot W1 + L2 \cdot W2 + L3 \cdot W3) / F$$
$$W = (101' \times 40' + 166' \times 122' + 29' \times 290' + 198' \times 458') / 532'$$

$$W = 231' \quad \text{According to IBC Section 506.3.2 } W = 30'$$

$$If = ((F/P) - 0.25)W/30$$

$$If = ((532/893) - 0.25) / 30/30$$

$$If = ((0.59) - 0.25) / 1$$

$$If = 0.34 \quad \text{According to IBC Section 506.3.3}$$

$$Aa = At + (Ns \cdot If)$$

$$Aa = 62,000 + (15,500 \cdot 0.34)$$

$$Aa = 62,000 + 5270$$

$$Aa = 67,270 \text{ sf} \quad \text{According to IBC Section 506.2.2 - Equation 5-1}$$

General Notes - Site Plan

- Project area is limited to scope of work boundary line. All other site items shown are NIC and shown for reference only unless noted otherwise.
- Parking calculations are shown for accessibility requirements, code compliance and parking performance standards. The overall site should be assessed and is considered shared parking amongst the several buildings. All parking on site at a minimum meets the requirements as set forth in the <@Francis to provide Ordinance>.
- The landlord is responsible for all site improvements as per the LOI. Refer to the final signed lease agreement for coordination of work. Contact the landlord.

Legend - Site Plan

- Scope of Work Boundary Line
- Existing Asphalt Paving
- Existing sidewalk
- Existing Landscape
- Existing Tree
- Parking Count Tag
- Accessible Parking
- Accessible Path of Travel
- Exit

Parking Calculations

Square Footage By Use

Commercial, Amusement Park:	65205 sf
Commercial, Office:	302 sf
Restaurant:	1485 sf
Total Square Footage:	66,992 sf

Off Street Parking Ratio Needed

Commercial / Amusement Park:	(1) space per each 300 sf used for Amusement Park
Commercial / Office:	(1) space for each 300 sf used for office purposes
Restaurant:	(1) space per each 45 sf used for Restaurant Purposes

Commercial / Amusement Park:	218 Spaces
Commercial / Office:	1,006/667 Spaces
Restaurant:	33 Spaces
Total Parking Spaces Required:	252 spaces
Total Parking Spaces Provided:	437 spaces

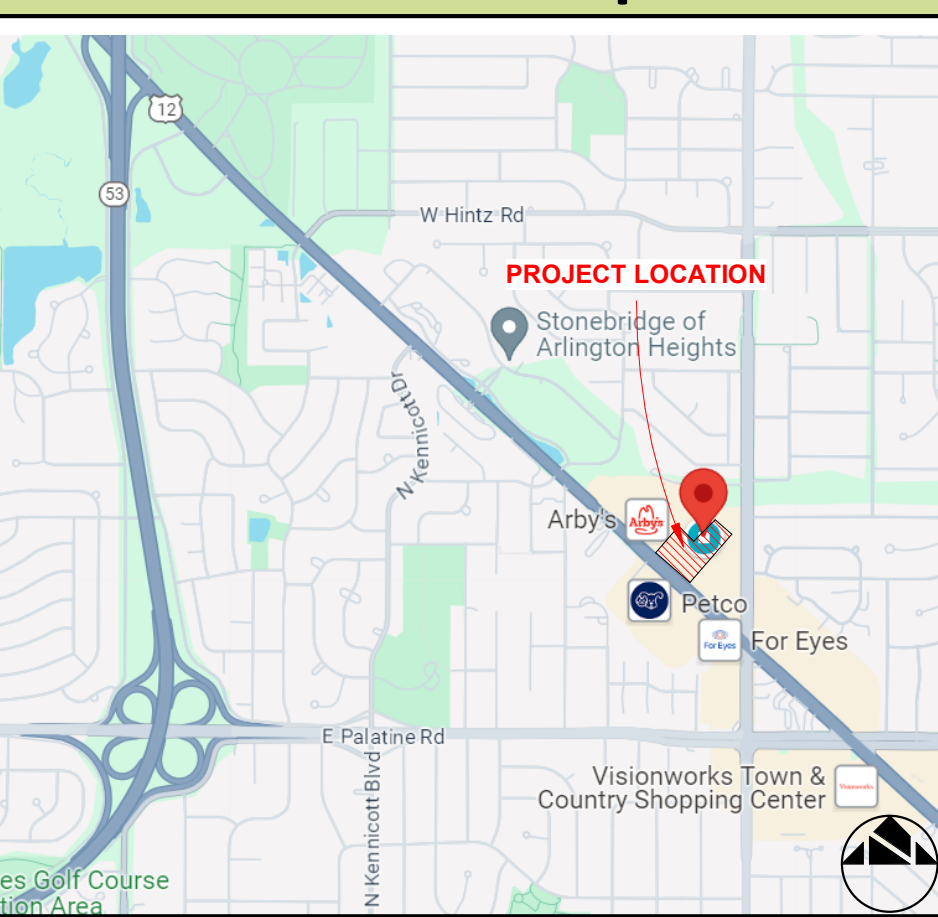
Accessible Spaces Requirements

Total Parking Spaces Provided:	437 spaces
Minimum Accessible Parking Spaces Required:	7 spaces
Total Accessible Parking Spaces Provided:	8 spaces

Vicinity Map



Location Map



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PM: Constanza G. Wybert
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MEP Engineer:

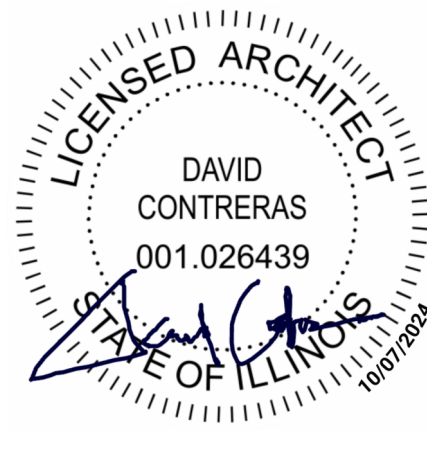
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Structural Engineer:

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Tom@burkese.com

Construction Management:

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60103, United States
630-712-2550
Contact: Thomas R Piazza II
tpiazza@foxfieldctd.com



No.	Description	Date
A	Issue for Permit	2024.12.20
1	Drawn By: AM	
2	Checked By: BA	
3	Proj. No. 23-053	
4	Copyright Pistil Consortia LLC 2024 ©	

Site Plan

A001

Accessible Seating

At least 5%, but not less than 1 of the dining surfaces shall be accessible. Accessible seating shall be identified by a sign or a marker.

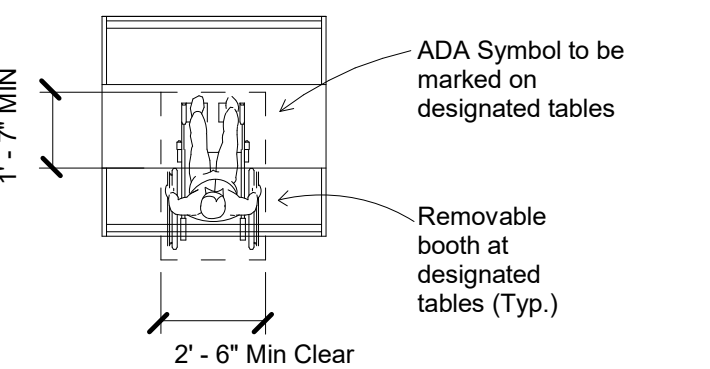
18 Round Tables x 32" = 576" / 24" = 24 * 0.05 = 2

15 Booth Tables x 48" = 720" / 24" = 30 * 0.05 = 2

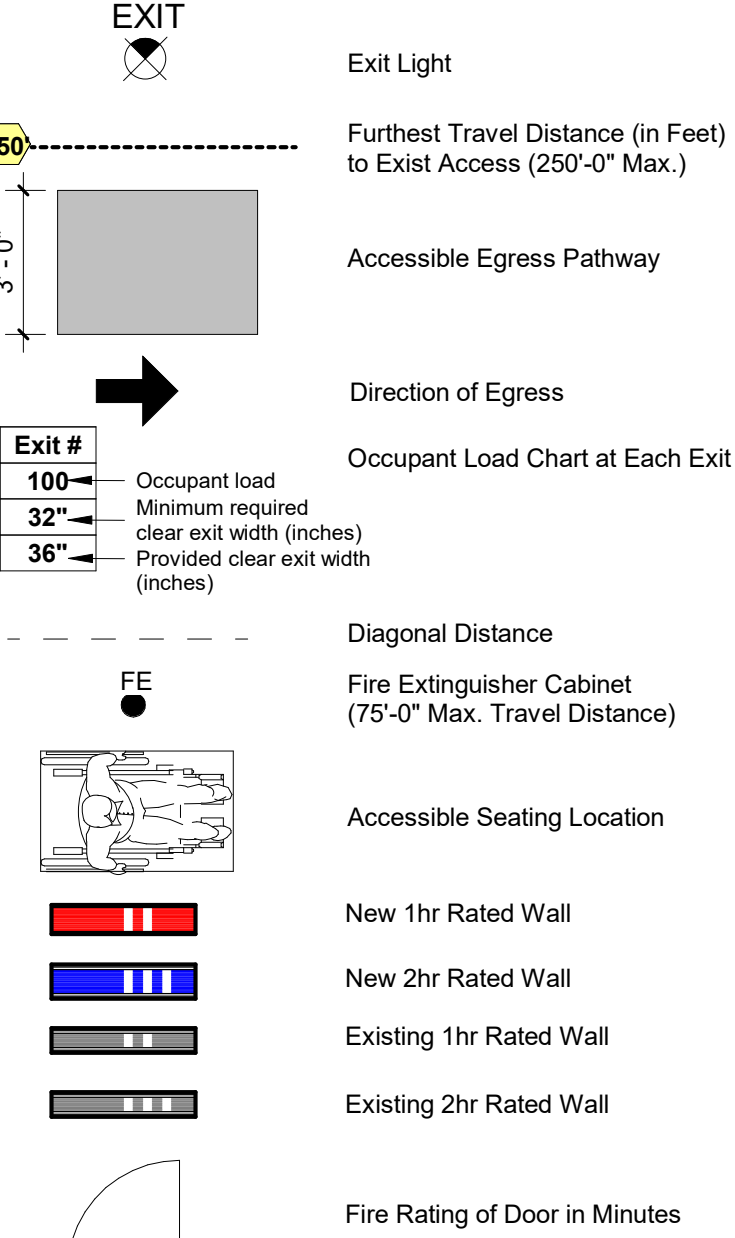
29 Party Tables x 96" = 2784" / 24" = 116 * 0.05 = 6

4 Tech Bars x 156" = 624" / 24" = 26 * 0.05 = 2

Total Accessible Tables Required: 12



Legend - Life Safety Plan



Keynotes

236	Railing
352	Raised Platform - Railing (NIC)

Means of Egress Calculations

Occupant Load (IBC - 1004)
A-2 Occupants: (IBC - 1004.5) 9 A-2 Occupants +
A-3 Occupants: 827 A-3 Occupants =
Total Occupancy Load **836 Occupants**

Required Exit Width (IBC - 1005)
Total Occupancy Load 836 Occupants
Means of Egress Capacity Factor (IBC - 1005.3.2) 0.2 per occupant
Exit Total Width Required: (836 Occupants * 0.2) 168"
Actual Total Exit Width Provided: Exit #1: 84" + Exit #2: 36" + Exit #3: 72" + Exit #4: 72" + Width Provided: Exit #5: 36" Total Provided: 300"

Exit Access Travel Distance (IBC - 1017)
Maximum Travel Distance to an Exit:
A Occupancy with Sprinkler System = 250' - 0" Allowed
A-3 Occupancy = 236' shown

General Notes - Life Safety

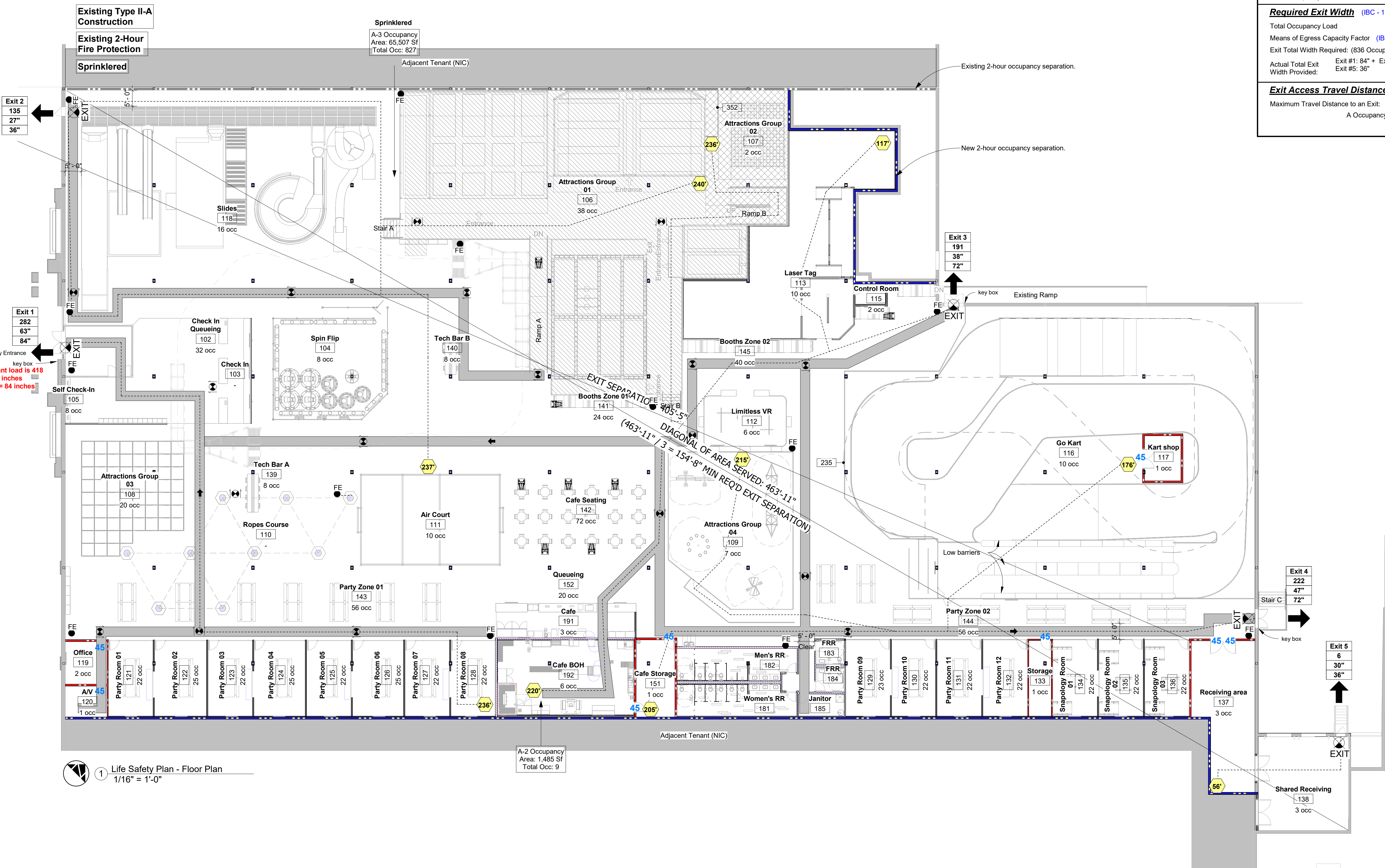
- Automatic sprinkler system to be provided throughout.
- Portable fire extinguishers to be provided per building code section 3309 (during construction) and section 906 and Fire Code 1415.1
- Provide fire extinguishers within travel distance of 75'-0". Relocate the landlord provided fire extinguishers if acceptable by Fire Marshal.
- Distance to exit pathways are based on the tenant attractions plan as well as the FFE plan and are intended to demonstrate the general range of lengths for potential egress routes.
- Any penetrations through fire-resistive rated construction shall be thoroughly sealed and/or protected by product(s) and/or system(s) compatible to said construction, and able to achieve and maintain the fire-resistive performance as required by applicable codes and authorities having jurisdiction. Fire caulking shall be performed and certified by a single source contractor for penetrations of structural, mechanical, electrical and architectural elements.
- All insulation and associated facings shall meet all required code ratings for flame spread and smoke development.
- Exit lights and emergency lighting - refer to electrical drawings for all locations. Life Safety plans illustrate limited locations.
- Paint emergency lights and fire alarm devices to match adjacent construction as permitted by fire marshal.
- Corridors and exit paths shall have egress lighting with emergency power back-up supply. Refer to the electrical lighting plan.
- Egress paths shown do not indicate recommended or planned means of egress, but are intended to illustrate the path from a space within the allowable travel distance to exit.
- Paint all exposed gas lines per local ordinances and codes.
- Provide knock box(es) in locations as required by the Fire Marshal.
- The Fire Alarm and Fire Sprinkler system plans to be reviewed with the Fire Marshal prior to construction.
- Occupant load in A-3: Attractions occupant load shall be approved by the Fire Code Official. The attractions have a footprint that is not completely occupied and require a unique occupant load based on the unique function of each attraction. Refer to the exception in section 1004.1.2.
- Occupant load A-3: Seating is determined by the actual seat count and the count determined in section 1004.4.
- Vendors and GC to refer to 2021 IBC Section 424 and IBC Section 411 for code requirement for the play structures when installed.

Occupant Load Factor

Function of Space	Occupant Load Factor (IBC - Table 1004.1.2)
Assembly w/o Fixed Seats -Standing Space	5 square feet per occupant
Assembly w/o Fixed Seats -Unconcentrated (tables and chairs)	15 square feet per occupant
Assembly queueing lines	5 net square feet per occupant
Business Areas	150 gross square feet per occupant
Kitchen, Commercial	200 gross square feet per occupant
Mechanical Equipment Room	300 gross square feet per occupant
Storage, Stock, Shipping Area	300 gross square feet per occupant
Locker Room	50 gross square feet per occupant
Business use	50 square feet per occupant

Occupant Load Calculation

Room #	Room Name	Function of Space	Area	Occ. Load Factor	Loa d
101	Vestibule	A-3	341 SF	5 SF	0
102	Check In Queueing	A-3: Assembly queueing lines	158 SF	5 SF	32
103	Check In	A-3: Waiting Space (5 OLF)	40 SF	5 SF	8
104	Spin Flip	A-3: Fixed - Game	1174 SF	5 SF	8
105	Self Check-In	A-3: Fixed - Game	40 SF	5 SF	8
106	Attractions Group 01	A-3: Fixed - Game	7226 SF	5 SF	38
107	Attractions Group 02	A-3: Fixed - Game	934 SF	5 SF	2
108	Attractions Group 03	A-3: Fixed - Game	1277 SF	5 SF	20
109	Attractions Group 04	A-3: Fixed - Game	1783 SF	5 SF	7
110	Ropes Course	A-3: Fixed - Game	867 SF	5 SF	14
111	Air Court	A-3: Fixed - Game	1311 SF	5 SF	10
112	Limitless VR	A-3: Fixed - Game	553 SF	5 SF	6
113	Laser Tag	A-3: Fixed - Game	2034 SF	5 SF	10
114	Staging	A-3: Fixed - Game	285 SF	5 SF	10
115	Control Room	Business areas (150 OLF)	61 SF	5 SF	2
116	Go Kart	A-3: Fixed - Game	1035 SF	5 SF	10
117	Kart shop	A-3: Mech. Equipment	162 SF	5 SF	1
118	Slides	A-3: Fixed - Game	4728 SF	5 SF	16
119	Office	Business areas (150 OLF)	175 SF	5 SF	2
120	AV	A3: Storage	127 SF	300 SF	1
121	Party Room 01	A-3: Assembly (tables and chairs)	329 SF	15 SF	22
122	Party Room 02	A-3: Assembly (tables and chairs)	384 SF	15 SF	25
123	Party Room 03	A-3: Assembly (tables and chairs)	329 SF	15 SF	22
124	Party Room 04	A-3: Assembly (tables and chairs)	379 SF	15 SF	25
125	Party Room 05	A-3: Assembly (tables and chairs)	329 SF	15 SF	22
126	Party Room 06	A-3: Assembly (tables and chairs)	378 SF	15 SF	25
127	Party Room 07	A-3: Assembly (tables and chairs)	329 SF	15 SF	22
128	Party Room 08	A-3: Assembly (tables and chairs)	327 SF	15 SF	22
129	Party Room 09	A-3: Assembly (tables and chairs)	332 SF	15 SF	23
130	Party Room 10	A-3: Assembly (tables and chairs)	328 SF	15 SF	22
131	Party Room 11	A-3: Assembly (tables and chairs)	332 SF	15 SF	22
132	Party Room 12	A-3: Assembly (tables and chairs)	332 SF	15 SF	22
133	Storage	Storage (300 OLF)	167 SF	300 SF	1
134	Snapology Room 01	A-3: Assembly (tables and chairs)	331 SF	15 SF	22
135	Snapology Room 02	A-3: Assembly (tables and chairs)	331 SF	15 SF	22
136	Snapology Room 03	A-3: Assembly (tables and chairs)	331 SF	15 SF	22
137	Receiving area	A3: Storage	798 SF	300 SF	3
138	Shared Receiving	A3: Storage	836 SF	300 SF	3
139	Tech Bar A	A-3: Assembly	59 SF	5 SF	8
140	Tech Bar B	A-3: Assembly	27 SF	5 SF	8
141	Booths Zone 01	A-3: Fixed Seats	99 SF	5 SF	24
142	Cafe Seating	A-3: Assembly (tables and chairs)	1361 SF	5 SF	72
143	Party Zone 01	A-3: Assembly (tables and chairs)	1605 SF	5 SF	56
144	Party Zone 02	A-3: Assembly	1062 SF	5 SF	56
145	Booths Zone 02	A-3: Assembly	143 SF	5 SF	40
151	Cafe Storage	Storage (300 OLF)	261 SF	300 SF	1
152	Queueing	A-3: Assembly queueing lines	99 SF	5 SF	20
181	Women's RR	A-3	361 SF	0 SF	0
182	Men's RR	A-3	361 SF	0 SF	0
183	FRR	A-3	67 SF	0 SF	0
184	FRR	A-3	67 SF	0 SF	0
185	Janitor	A-3	100 SF	0 SF	0
191	Cafe	A-2: Kitchens, commercial	448 SF	200 SF	3
192	Cafe BOH	A-2: Kitchens, commercial	1015 SF	200 SF	6
					836



1 Life Safety Plan - Floor Plan
1/16" = 1'-0"



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A	Issue for Permit	2024.12.20

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Life Safety Plan

A003

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302. EXCEPTIONS: CRITERIA OMITTED. Not applicable to this project.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cutnup pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

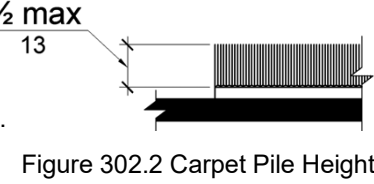


Figure 302.2 Carpet Pile Height

303 Changes in Level

303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

EXCEPTIONS: CRITERIA OMITTED. Not applicable to this project.

303.2 Vertical. Changes in level of

1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space. 304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space. 305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (762 mm) minimum by 48 inches (1220 mm) minimum.

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

306 Knee and Toe Clearance. 306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306.

Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance. 306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (762 mm) wide minimum.

306.3 Knee Clearance. 306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (762 mm) wide minimum.

307 Protruding Objects. 307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons, the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum and 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardsrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high.

The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges. 308.1 General. Reach ranges shall comply with 308.

308.2 Forward Reach. 308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS: 1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.

2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

308.2.2 Obstructed High Forward Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

308.3 Side Reach. 308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS: CRITERIA OMITTED. Not applicable to this project.

308.3.2 Obstructed High Side Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 46 inches (1200 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

EXCEPTIONS: CRITERIA OMITTED. Not applicable to this project.

309 Operable Parts. 309.1 General. Operable parts shall comply with 309.

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

EXCEPTION: CRITERIA OMITTED. Not applicable to this project.

CHAPTER 4: ACCESSIBLE ROUTES

401 General. 401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes. 402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum and the clear width at the turn is 42 inches (1065 mm) minimum, the clear width at the turn shall not be required.

403.5.3 CRITERIA OMITTED. Not applicable to this project.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

404 Doors, Doorways, and Gates. 404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening wider than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening wider than 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS: 1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.

2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1 through 404.2.4.4).

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2. (as illustrated on Figure 404.2.4.2).

EXCEPTIONS: 1. Slides not steeper than 1:48 shall be permitted.

2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

1. Existing locks shall be permitted in any location at existing glazed doors without sills, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.

2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also self-closing devices and operated by means of a key, electronic opener, or integral combination lock.

404.2.8 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

EXCEPTIONS: 1. Sliding doors shall not be required to comply with 404.2.10.

2. Tempered glass doors without sills and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255 mm) bottom smooth surface height requirement.

3. Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground shall not be required to comply with 404.2.10.

4. Existing doors and gates without smooth surfaces within 10 inches (255 mm) of the finish floor or ground shall not be required to provide smooth surfaces complying with 404.2.10 provided that if added kick plates are installed, cavities created by such kick plates are capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

404.3 Automatic and Power-Assisted Doors and Gates. CRITERIA OMITTED. Not applicable to this project.

405 Ramps. 405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302.

Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (762 mm) maximum.

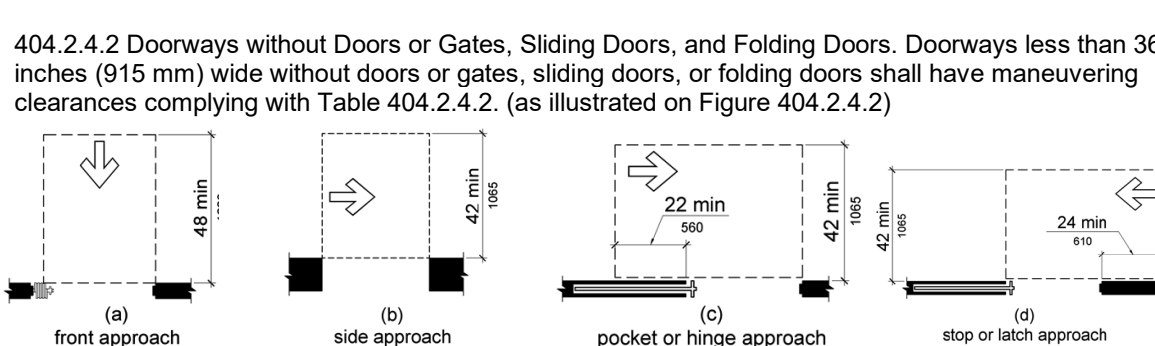


Figure 404.2.4.2 Maneuvering Clearances at Doorways without Doors, Sliding Doors, Gates, and Folding Doors

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

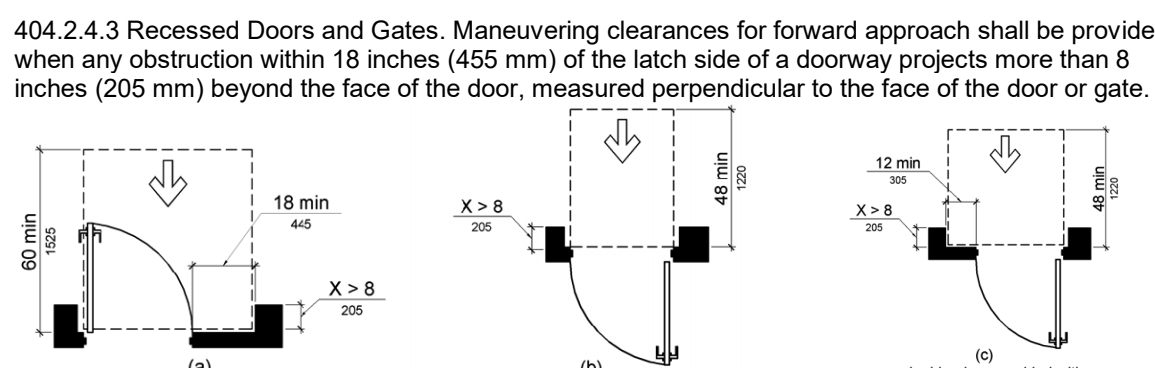


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

1. Slopes not steeper than 1:48 shall be permitted.

2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

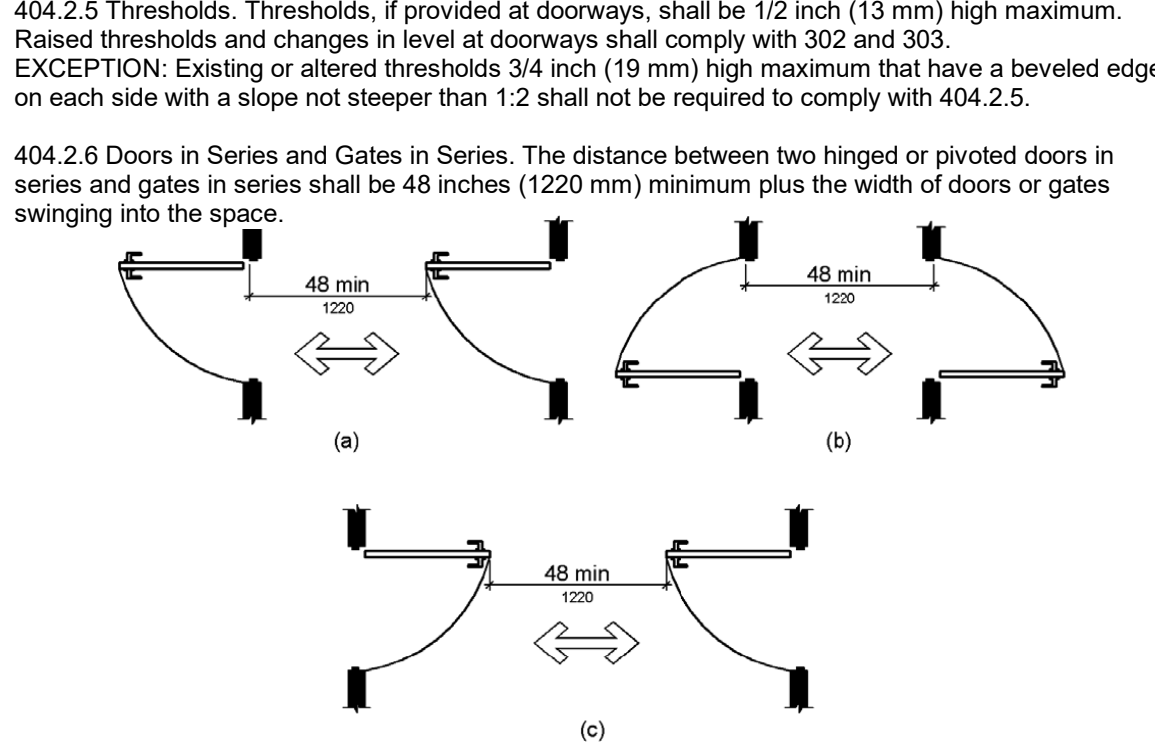


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

1. Existing locks shall be permitted in any location at existing glazed doors without sills, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.

2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also self-closing devices and operated by means of a key, electronic opener, or integral combination lock.

404.2.8 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

EXCEPTIONS: 1. Sliding doors shall not be required to comply with 404.2.10.

2. Tempered glass doors without sills and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255 mm) bottom smooth surface height requirement.

3. Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground shall not be required to comply with 404.2.10.

4. Existing doors and gates without smooth surfaces within 10 inches (255 mm) of the finish floor or ground shall not be required to provide smooth surfaces complying with 404.2.10 provided that if added kick plates are installed, cavities created by such kick plates are capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

404.3 Automatic and Power-Assisted Doors and Gates. CRITERIA OMITTED. Not applicable to this project.

OUTLINE SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01010 - SUMMARY OF WORK

- THESE DRAWINGS ARE INTENTIONALLY ABBREVIATED IN NATURE, ESPECIALLY IN REGARDS TO THE BASE BUILDING CONSTRUCTION, SYSTEMS AND EXISTING CONDITIONS. CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT FOR REQUIRED PROCEDURES FOR WORK IN THE BUILDING.
- ALL WORK NOTED " BY OTHERS , "N. I. C.," OR "NOT IN CONTACT" IS BE ACCOMPLISHED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR IS TO COORDINATE WITH "OTHER" CONTRACTORS AS REQUIRED.
- WORK MAY TAKE PLACE WITHIN AND/OR ADJACENT TO OPERATING OFFICE AREAS. CONTRACTOR MUST TAKE PRECAUTIONS TO AVOID INTERFERING WITH THE CONDUCT OF BUSINESS. CONTRACTOR MUST PROVIDE TEMPORARY DUST PARTITIONS AND OTHER DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE DISRUPTION OF THE OFFICE. CONTRACTOR MUST THOROUGHLY CLEAN ALL WORK AND COMMON AREAS AT THE COMPLETION OF EACH DAY'S WORK WHICH IMPACTS FUNCTIONING OFFICE AREAS MUST BE COORDINATED IN ADVANCE WITH OWNER.
- WORK WHICH CREATES LEVELS OF NOISE WHICH ARE DISRUPTIVE TO THE CONDUCT OF BUSINESS WITHIN THE BUILDING, OR ACTIVITIES WHICH CREATE HARMFUL OR OFFENSIVE ODORS WHICH TRAVEL PAST THE WORK AREA MUST BE ACCOMPLISHED OUTSIDE OF NORMAL BUSINESS ACTIVITES AND BE COORDINATED WITH BUILDING MANAGEMENT
- COMPUTER EQUIPMENT MAY BE LOCATED THROUGHOUT THE OFFICE AREA. CONTRACTOR MUST TAKE NECESSARY PRECAUTIONS TO PROTECT THE COMPUTER EQUIPMENT FROM DAMAGE, DUST, AND POWER INTERRUPTION. SCHEDULE ALL POWER SHUT DOWN IN ADVANCE WITH TENANT AND BUILDING MANAGEMENT IN ORDER TO AVOID DISRUPTION OF COMPUTER POWER.

SECTION 01030: ALTERNATES

- PROPRIETARY MATERIALS, PRODUCTS, OR SYSTEMS REQUIRED BY THESE CONTRACT DOCUMENTS ESTABLISH THE MINIMUM QUALITY AND STANDARD OF PERFORMANCE FOR THE WORK AND ARE INTENDED TO BE NONDISCRIMINATORY WITH REGARD TO UNAMED MANUFACTURES OR SUPPLIERS UNLESS SPECIFICALLY NOTED. REQUESTS FOR SUBSTITUTION ARE TO BE SUBMITTED IN WRITING, TO THE CONSTRUCTION MANAGER, ACCOMPANIED BY APPROPRIATE DATA INDICATING COSTS, SCHEDULES, PERFORMANCE ADVANTAGE, AND ANY VARIATIONS FROM SPECIFIED REQUIREMENTS.

SECTION 01040: COORDINATION

- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING EXISTING CONDITIONS IN THE BUILDING, AND BECOMING FAMILIAR WITH BUILDING SYSTEMS, DETAIL, AND DIMENSIONS, ANY DISCREPANCIES MUST BE COMMUNICATED TO THE OWNER IN WRITING BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE INSTRUCTIONS OR OTHER COORDINATION ISSUES, THE CONTRACTOR IS RESPONSIBLE FOR REPORTING IN WRITING AND OBTAINING CLARIFICATION FROM THE CONSTRUCTION MANAGER BEFORE PROCEEDING WITH IN QUESTION OR OTHER RELATED WORK.
- CONTRACTOR SHALL SUBMIT CONFIRMATION WITH DELIVERY - TO - JOB DATES ON ALL ORDERS OF MATERIALS AND EQUIPMENT OF ANY ITEMS REQUIRING MORE THAN A TWO WEEK DELIVERY.
- THE CONTRACTOR IS TO PURCHASE AND INSTALL ANY ITEMS CALLED OUT AS "BUILDING STANDARD" SPECIFICATIONS FOR BUILDING STANDARD ITEMS CAN BE OBTAINED THROUGH THE BUILDING CONSTRUCTION MANAGER.

SECTION 01060: REGULATORY REQUIREMENTS

- PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION.

SECTION 01070: ABBREVIATIONS, DEFINITIONS, AND TERMINOLOGY

- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN SAME PLANE. INSTALL NEW CONSTRUCTION REQUIRED TO ALIGN WITH EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES UNLESS NOTED OTHERWISE.
- "TYPICAL" (TYP.) AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITIONS OR DIMENSION IS THE SAME OR REPRESENTATIVE OF SIMILAR CONDITIONS THOUGH OUT , UNLESS NOTED OTHERWISE.
- "MINIMUM" (MIN.) AS USED IN THESE DOCUMENTS SHALL MEAN THE LEAST POSSIBLE DIMENSION.

SECTION 01120: ALTERATION PROJECT PROCEDURES

- ITEMS SHOWN ON DRAWINGS TO "BE RELOCATED" ARE TO BE REPAIRED AND MODIFIED AS REQUIRED PRIOR TO INSTALLATION IN NEW LOCATION.
- CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT FOR ADDITIONAL RULES AND REGULATIONS CONCERNING WORK IN THE BUILDING.
- MODIFY SPRINKLER SYSTEM AS REQUIRED TO MEET CODE AND IN COMPLIANCE WITH BUILDING OWNER'S REQUIREMENTS. IF APPLICABLE

SECTION 01300: SUBMITTALS- IF APPLICABLE

- LABEL EACH SAMPLE WITH :

JOB NAME

MATERIAL/MANUFACTURER/COLOR

DATE OF SUBMITTAL
- SUBMIT SAMPLES AND RECEIVE ONE APPROVED SAMPLE RETURNED BY THE CONSTRUCTION MANAGER BEFORE PLACING FULL ORDERS WHERE MATERIALS ARE NOT RETURNABLE AND / OR BEFORE COMMENCING WITH INSTALLATION OF THE WORK.
- ALL SAMPLES MUST BE PROPERLY LABELED AND IN THE CORRECT QUANTITIES. SAMPLES NOT PROPERLY PRESENTED WILL BE RETURED UNREVIEWED. TIME EXTENSIONS WILL NOT BE CONSIDERED FOR DELAYS OCCURRING AS A RESULT OF DELAY IN REVIEWING SAMPLES DUE TO INCOMPLETE SUBMITTAL.
- PROVIDE SHOP DRAWINGS TO THE CONSTRUCTION MANAGER FOR REVIEW , PRIOR TO PURCHASING OR FABRICATING THE FOLLOWING ITEMS.

MILLWORK

STONE WORK

CARPET SEAMING PATTERN

SIGNAGE

OTHER SPECIALTY OR CUSTOM FABRICATED ITEMS
- PROVIDE ONE PAPER SEPIA AND TWO SETS OF PRINTS. CONTRACTOR TO REVIEW SHOP DRAWINGS AND STAMP WITH OFFICIAL REVIEW STAMP PRIOR TO FORWARDING TO THE CONSTRUCTION MANAGER.
- CONSTRUCTION MANAGER TO HAVE SEVEN DAYS TO REVIEW SHOP DRAWINGS AND RETURN TO CONTRACTOR , WITHOUT IMPACTING PROJECT SCHEDULE.

SECTION 06100: ROUGH CARPENTRY

- PROVIDE FIRE RETARDANT 2 x 4 BLOCKING IN WALLS WHERE REQUIRED FOR PROPER SUPPORT OF MILLWORK, STANDARDS AND WALL HUNG EQUIPMENT.
- WHERE CONCEALED WOOK IS REQUIRED, PROVIDE FIRE RETARDANT TREATED MATERIAL.

SECTION 06220: MILLWORK

- UNLESS OTHERWISE SPECIFIED, ARCHITECTURAL MILLWORK SHALL COMPLY WITH THE ARCHITECTURAL WOODWORK INSTITUTE (AWWI) QUALITY STANDARDS CUSTOM GRADE.
- SPECIFICATIONS HEREIN ARE FOR SHOP CONSTRUCTED CABINETS. CONTRACTOR SHALL PROVIDE CUSTOM FABRICATED UNITS WHICH MEET THE GENERAL REQUIREMENTS OF THESE SPECIFICATIONS AND THE DRAWINGS.

SECTION 06220. MILLWORK

- CONSTRUCT AND INSTALL ALL CABINETS TO BE PLUMB, SQUARE AND TRUE TO PLANE AND TO CONFORM TO DIMENSIONS SPECIFIED HEREIN AND ON THE DRAWINGS. COORDINATE INSTALLATION WITH OTHER TRADES WHOSE WORK IS AFFECTED BY THE INSTALLATION OF CABINETS. REFER TO ELECTRICAL AND PLUMBING SPECIFICATION SECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND INSTALLATION OF WOOD BLOCKING IN DRYWALL REQUIRED FOR CABINET WORK.
- CONTRACTOR SHALL FIELD MEASURE ALL OPENING AND ROOM DIMENSIONS TO WHICH CABINETS MUST CONFORM. HE SHALL BE RESPONSIBLE FOR VERIFYING OPENING DIMENSIONS FOR ALL BUILT - IN APPLIANCES.
- DELIVERY OF CABINETS TO SITE SHALL BE COORDINATED WITH WORK OF OTHER TRADES SO THAT THE CABINETS ARE DELIVERED WHEN THE WORK OF THE OTHER TRADES IS REASONABLY COMPLETE AND READY FOR CABINETS TO BE INSTALLED.
- SEAL ALL WOOD SURFACES NOT RECEIVING PAINT OR PLASTIC LAMINATE TO PREVENT MOISTURE PENETRATION.
- PAINT ALL SCRIBE PANELS AND REVEALS TO MATCH ADJACENT LAMINATE TO PREVENT MOISTURE PENETRATION.
- PARTICLE BOARD MAY NOT BE SUBSTITUTED FOR PLYWOOD CONSTRUCTION.
- ALL DOORS AND DRAWER FACES AND EXPOSED SHELVEING TO BE CONSTRUCTED OF 3/4 INCH HARDWOOD.
- UTILIZE PAINT GRADE HARDWOOD VENEER PLYWOOD FOR DOORS AND DRAWER FRONTS TO BE PAINTED. ALL OTHER EXPOSED SURFACES TO BE HARDWOOD, FILL, SAND AND PRIME ALL SURFACES TO BE PAINTED PER REQUIREMENTS OF PAINT MANUFACTURER.
- WHEN STAINED CABINETS ARE SPECIFIED, UTILIZE STAIN GRADE OAK VENEER (PLAIN CUT) PLYWOOD (BOTH SIDES) , FILL AND SAND ALL SURFACES PRIOR TO APPLYING STAIN FOR MANUFACTURER'S SPECIFICATIONS. UNLESS NOTED OTHERWISE, STAIN SHALL MATCH BUILDING STANDARD DOORS.
- DRAWER/ DOOR PULLS, STANLEY WIRE PULLS, WHEN CABINETS ARE TO BE STAINED, CABINET HARDWARE FINISH TO MATCH DOOR HARDWARE. WHEN CABINETS ARE TO BE PAINTED, USE ANODIZED ALUMINUM. PULLS ARE TO MEET OR EXCEED ADA REQUIREMENTS.
- COFFEE MAKERS: WHERE COFFEE MAKER WILL REQUIRE DIRECT COLD WATER SUPPLY PLUMBER IS TO PROVIDE 1/4 INCH COPPER LINE WITH SHUT OFF VALVE. CABINETS MAKER TO VERIFY WITH TENANT AND PROVIDE HOLES IN COUNTER FOR ACCESS TO COFFEE MAKER AS REQUIRED.
- CAULKING: CAULK COUNTER TOP JOINTS WITH A CAULKING TO MATCH THE COUNTER TOP COLOR.

DIVISION 8 - DOORS AND HARDWARE

SECTION 08110: INTERIOR DOOR AND WINDOW FRAMES

- ALL DOORS, FRAMES AND HARDWARE TO BE BUILDING STANDARD. REPLACE ALL EXISTING DOORS, FRAMES, AND HARDWARE WITH NEW BUILDING STANDARD DOORS, FRAMES AND HARDWARE. UNLESS NOTED OTHERWISE
- DOORS TO RECEIVE LOCKSET AND CLOSER ARE INDICATED IN THE DOOR AND HARDWARE SCHEDULE.
- INSTALL ALL DOORS AND FRAMES TO BE PLUMB, SQUARE AND TRUE TO PLANE. COORDINATE INSTALLATION WITH OTHER TRADES WHOSE WORK IS AFFECTED BY THE INSTALLATION OF DOOR FRAMES, DOORS AND WINDOWS (SIDELIGHTS)
- FINAL KEYING TO BE ACCOMPLISHED BY BUILDING PROPERTY MANAGEMENT. TENANT TO COORDINATE WITH PROPERTY MANAGEMENT TO DETERMINE EXACT KEYING REQUIREMENTS.
- CONTRACTOR SHALL INSPECT ALL MATERIALS SUPPLIED BY OWNER UPON RECEIPT OF SUCH ITEMS. THE CONTRACTOR SHALL NOT INSTALL ANY DEFECTIVE OR DAMAGED MATERIALS. BUT SHALL NOTIFY THE OWNER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST ASSOCIATED WITH REPLACING A DAMAGED OR DEFECTIVE ITEM IF SUCH DAMAGE OR DEFECT SHOULD REASONABLY HAVE BEEN NOTICED DURING CONTRACTOR'S INSPECTION OF MATERIAL UPON RECEIPT.
- THE CONTRACTOR SHALL ALSO TAKE MEASURES TO PROTECT THE MATERIALS, SUPPLIED BY THE OWNER, THAT HE IS TO INSTALL, DURING CONSTRUCTION.
- SIDELIGHTS TO MATCH BUILDING STANDARD DOOR HEIGHT BY SPECIFIED WIDTH UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUPPLY FRAMES AND GLASS. FRAMES SHALL MATCH BUILDING STANDARD DOOR FRAMES.

SECTION 08210: WOOD FLUSH DOORS

- CONTRACTOR TO VERIFY EXACT SPECIFICATION OF BUILDING STANDARD DOORS. DOORS TO BE PURCHASED BY CONTRACTOR UNLESS NOTED OTHERWISE. DOORS WILL BE PRE - BORED AND MORTISED. CONTRACTOR SHALL FIT ALL DOORS ACCURATELY IN THEIR RESPECTIVE FRAMES, TIGHT FITTING ON TOP AND SIDES. PROVIDE 3/8 INCH CLEARANCE FROM FINISHED FLOOR.
- SEAL TOP AND BOTTOM OF SOLID CORE DOORS WITH HEAVY COAT OF VARNISH OR SIMILAR SEAL PRIOR TO STAINING DOORS. KEEP REMAINING SURFACES ON DOOR CLEAN. FINISHING OF BUILDING STANDARD DOORS IS THE RESPONSIBILITY OF THE CONTRACTOR.

SECTION 08700: FINISH HARDWARE

- DOOR HARDWARE FOR BUILDING STANDARD DOORS TO BE PURCHASED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- BUILDING STANDARD INTERIOR DOOR HARDWARE IS CYLINDRICAL AND ENTRY/ EXIT DOOR HARDWARE IS MORTISED.

SECTION 08800: GLASS AND GLAZING

- ALL GLAZING TO BE 1/4 INCH TEMPERED GLASS. WHERE TEMPERED GLASS IS USED, GLASS SHALL BE INSTALLED WITH NO VISIBLE TONG MARKS OR MANUFACTURER'S LABEL'S UNLESS NOTED OTHERWISE.
- FURR OUT CORE WALLS AS REQUIRED TO ACCOMMODATE ELECTRICAL AND PLUMING REQUIREMENTS.

DIVISION 9 - FINISHES

- DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE: TO OUTSIDE FACE OF WALL, TO INSIDE FACE OF JAMB AT DOOR AND OTHER OPENING, TO LINE OF GLASS AT WINDOW WALL TO TOP OF FINISHED FLOOR AT FLOORS, TO BOTTOM OF FINISH AT CEILINGS.
- WHERE A WALL IS SHOWN ALIGNED WITH MORE THAN ONE COLUMN OR WITH CORE WALLS WHICH ARE NOT ALIGNED, CONTRACTOR SHALL ALIGN WITH THE FURTHEST PROJECTION.
- ALL DOOR FRAMES TO BE LOCATED 4" FROM ADJACENT WALL TO OUTSIDE OF FRAME ON HINGE SIDE OF DOOR, U. N. O.
- COMPLY WITH ALL APPLICABLE REQUIREMENTS OF UNITED STATES GYPSUM PUBLICATION, "GYPSUM CONSTRUCTION HANDBOOK" (H - 17USG/REY 3 - 80), EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE CALLED FOR IN LOCAL CODES, OR BY WALLBOARD MANUFACTURER.
- ALL WORK HEREIN REQUIRES COORDINATION WITH TRADES WHOSE WORK CONNECTS WITH, IS AFFECTED OR CONCEALED BY, DRYWALL. PRIOR TO DRYWALL INSTALLATION, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY SUCH WORK IS COMPLETE AND THAT DRYWALL MAY BE INSTALLED IN STRICT ACCORDANCE WITH PERTINENT CODES AND REGULATIONS, MANUFACTURER'S RECOMMENDATIONS AND THE DESIGN INTENT.
- CONSTRUCTION MANAGER TO REVIEW ACTUAL WALL LAYOUT PRIOR TO INSTALLING FLOOR TRACKS AND RESERVES THE RIGHT TO MODIFY LOCATION, POSITION, ALIGNMENTS, ETC. AT THAT TIME WITHOUT INCREASE IN COST.
- STANDARD PARTITIONS SHOULD BE CONSTRUCTED OF ONE LAYER OF 5/8 INCH METAL STUDS SPACED 24 INCHES ON CENTER. PARTITION SHOULD BE ATTACHED TO FLOOR AND TO CEILING GRID ABOVE.
- DEMISING PARTITION BETWEEN TENANTS SHOULD BE CONSTRUCTED IN THE SAME MANNER AS INTERIOR PARTITIONS EXCEPT, 1) PROVIDE TWO INCH (2") SOUND ATTENUATING INSULATION INSIDE WALL CAVITY FROM FLOOR TO CEILING; AND 2) SEAL AT THE FLOOR AND CEILING WITH ACOUSTIC SEALANT.
- SOUND ATTENUATING PARTITIONS AND DEMISING PARTITIONS SHOULD BE CONSTRUCTED ACCORDING TO THE FOLLOWING: 1) PARTITION GOES TO CEILING; AND 2) ADD 48 INCH WIDE SECTION OF TWO INCH (2") SOUND ATTENUATING INSULATION ABOVE CEILING CENTERED ON PARTITION BELOW.
- ALL MATERIALS SHALL BE THOSE MANUFACTURED BY U. S. GYPSUM AND BY FLINKOTE CONSTRUCTION PRODUCTS COMPANY OR EQUAL IN QUALITY AND SPECIFICATIONS.
- METAL STUDS SHALL BE 2 - 1/2 INCH WIDE, 22 GAUGE ELECTRO - GALVANIZED STEEL AT FULL HEIGHT PARTITIONS AND 2 - 1/2 INCH WIDE, 25 GAUGE ELECTRO - GALVANIZED STEEL AT OTHER PARTIAL HEIGHT PARTITIONS. PROVIDE PUNCH OUTS AT 24 INCHES O. O. AND 12 INCHES FROM END OR STUD CAPABLE OF PASSING PIPE AND

DIVISION 9 - FINISHES

SECTION 09260. GYPSUM BOARD SYSTEMS

- FURRING CHANNELS SHALL BE ROLL FORMED 25 GAUGE ELECTRO - GALVANIZED COLD STEEL " HAT SHAPED " APPROXIMATELY 2 - 5/8 INCHES WIDE AT BASE, 7/8 INCH DEEP WITH CROWN WIDTH OF 1 - 3/4 INCHES AND 1/2 INCH WIDE FLANGES.
- FLOOR AND CEILING RUNNERS SHALL BE 25 GAUGE ELECTRO - GALVANIZED COLD STEEL, " HAT SHAPED " , SECTIONS, OF SIZES REQUIRED TO ACCOMMODATE 2 - 1/2 INCH STUDS.
- ALL WALLBOARD TO BE TAPERED EDGE , 48 INCH WIDTH , AND IN LENGTHS THAT RESULT IN A MINIMUM OF JOINTS , 5/8 INCH THICKNESS, FIRE RATED, ASTM - C - 58 TYPE " X " , SUCH AS FLINKKOTE TYPE " X " FIRE HALT GYPSUM BOARD OR U. S. G. FIRE CODE TYPE " C " GYPSUM BOARD.
- METAL TRIM (CASING AND CORNER BEADS) FORMED FROM ZINC - COATED STEEL NOT LIGHTER THAN 0.0217" NOMINAL THICKNESS (26 GAUGE) .
- FASTENERS SHALL BE SHOULDERED FLATHEAD SCREWS ESPECIALLY DESIGNED FOR USE WITH POWER DRIVEN TOOLS, NOT LESS THAN ONE INCH (1") LONG, WITH SELF - TAPPING THREADS AND SELF - DRILLING POINTS.
- INSTALL ALL METAL STUD FRAMING MAKING PROPER PROVISIONS FOR WORK OF OTHER TRADES. ALL STUD WALLS SHALL BE ERECTED PLUMB SQUARE AND TRUE TO PLANE.
- MAKE WALLS AND PARTITIONS OF 2 - 1/2 INCH STUDS, 24 INCH ON CENTER UNLESS OTHERWISE INDICATED OR REQUIRED TO BE LARGER TO ACCOMMODATE MECHANICAL OR ELECTRICAL EQUIPMENT, PIPING AND FIXTURES OR THE FIXTURES OR EQUIPMENT OF ANY OTHER TRADE.
- WHERE STUD WALLS OR PARTITIONS MEET WITH THREE STUDS TO PROVIDE BACKING FOR ALL EDGES OF FINISH MATERIAL, OR AS INDICATED ON DRAWINGS.
- PROVIDE TOP AND BOTTOM TRACK AS SHOWN. ANCHOR BOTTOM TRACK TO FLOOR WITH POWER PINS AT 24 INCHES ON CENTER. ATTACH TOP TRACK TO CEILING GRID ABOVE UNLESS NOTED OTHERWISE. AS MUCH AS POSSIBLE, ANCHOR TO INTERMEDIATE " TS " .
- ALL STUD COMPONENTS SHALL BE CUT SQUARELY TO FIT TIGHT AGAINST BLOCKING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
- STUDS SHALL BE SEATED SQUARELY IN THE TRACK WITH THE STUD WEB AND FLANGES ABUTTING THE TRACK WEB, PUMB OR ALIGNED AND SECURELY ATTACHED TO THE FLANGES OR WEB OF BOTH THE UPPER AND LOWER TRACK.
- CONTRACTOR MAY STOCKPILE WALLBOARD IN THE BUILDING, FLAT ON THE FLOOR, IN PILES. TAKE CARE AGAINST LOADING BEYOND LIMITS FLOOR. ANY STOCKPILING OR MOVEMENT OF WALLBOARD BY CONTRACTOR SHALL BE DONE IN A CAREFUL MANNER. PROTECT WALLBOARD FROM MOISTURE FROM ANY SOURCE.
- TO MINIMIZE END JOINTS, USE WALLBOARD OF MAXIMUM PRACTICAL LENGTHS. BOARDS SHALL BE BROUGHT INTO CONTACT, BUT SHALL NOT BE FORCED INTO PLACE. WHERE ENDS OR EDGES ABUT, THEY SHALL BE FITTED.
- AT INTERNAL AND EXTERNAL CORNERS CONCEAL CUT EDGES BY OVERLAPPING THE COVERED EDGES OF ABUTTING BOARDS STAGGER BOARDS SO CORNERS OF ANY FOUR BOARDS WILL NOT MEET A CUTTING POINT EXCEPT IN VERTICAL CORNERS. DO ALL CUTTING AND PATCHING REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES.
- INSTALL DRYWALL WALLS , WHERE INDICATED , AT RIGHT ANGLES TO STUD , FURRING OR FRAMING MEMBERS MAKE END JOINTS, AS REQUIRED OVER FURRING OR FRAMING MEMBERS.
- IF FRAMING MEMBERS ARE CUT OUT OF ALIGNMENT, BOWED OR WARPED , CORRECT TO MAKE TRUE SURFACE BEFORE APPLICATION OF BOARD , USE CORRECTION METHOD APPROVED BY OWNER. MAKE FINISH WALLS OR CEILING PLUMB AND LEVEL , FREE OF UNEVENNESS AT JOINTS AND WITHOUT RIDGES, BOWS OR WARPS.
- END JOINTS OF DRY WALL SHALL BE STAGGERED , JOINTS ON OPPOSITE SIDES OF A PARTITION SHALL BE SO ARRANGED AS TO OCCUR ON DIFFERENT STUDS.
- ARRANGE DRY WALL PANELS SO THAT VERTICAL ABUTTING JOINTS ARE NO CLOSER THAN EIGHT INCHES (8") FROM CORNERS OF DOORS AND OTHER OPENINGS.
- FOR INSTALLATION OF DRYWALL PANELS, SPACE SCREWS 12 INCHES ON CENTERS WHEN SUPPORTS ARE 24 INCHES ON CENTERS. IN ALL INSTANCES STANDARD.
- APPLY METAL TRIM AT ALL EXPOSED EDGES. EXPOSED EDGES SHALL BE FORMED USING ONLY FINISHED FACTORY EDGE OF GYPSUM BOARD. APPLY CORNER BEADS AT ALL EXTERNAL CORNERS. INSTALL ALL METAL TRIM IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDED INSTALLATION METHODS. REMOVE EXISTING CORNER BEAD FROM WALL THAT IS TO ALIGN WITH A NEW WALL; TAPE, FLOAT AND SAND SMOOTH.
- INSPECT ALL JOINT AREAS: BE CERTAIN WALLBOARD FITS SNUGLY AGAINST SUPPORTING FRAMEWORK.
- IN JOINTING AND FINISHING AREAS, MAINTAIN TEMPERATURE NOT LESS THAN 55 DEGREES F. FOR 24 HOURS PRIOR TO STARTING, FOR ENTIRE PERIOD OF JOINTING, AND UNTIL ALL COMPOUNDS HAVE DRIED.
- MIX ALL ADHESIVE AND JOINT COMPOUNDS IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
- EMBEDDING COMPOUND SHALL BE APPLIED TO JOINTS AND FASTENER HEADS IN THIN, UNIFORM LAYER. SPREAD NOT LESS THAN THREE INCHES (3") WIDE AT JOINTS, CENTERING REINFORCING TAPE IN THE JOINT AND EMBED TAPE IN COMPOUND, THEN SPREAD THIN LAYER OF COMPOUND OVER TAPE. AFTER COMPOUND HAS DRIED, APPLY SECOND COAT TO JOINTS AND FASTENER HEADS, SPREADING IN THIN, UNIFORM COAT TO NOT LESS THAN SIX INCHES (6") WIDE AT JOINTS, FEATHER - EDGED, WHEN THOROUGHLY DRY, SANDPAPER TO EFFECT UNIFORMLY SMOOTH SURFACES, TAKING ALL NECESSARY CARE NOT TO SCUFF THE PAPER SURFACE OF THE WALLBOARD.
- AFTER EMBEDDING COMPOUND IS THOROUGHLY DRY AND COMPLETELY SANDED, APPLY A COAT OF FINISHING COMPOUND TO ALL JOINTS AND FASTENER HEADS. FEATHER COMPOUND TO NOT LESS THAN 12 INCHES WIDE, WHEN FULLY DRY, SANDPAPER TO EFFECT UNIFORMLY SMOOTH SURFACES, TAKING ALL NECESSARY CARE NOT TO SCUFF THE PAPER SURFACE OF THE WALLBOARD.
- INTERNAL CORNERS SHALL BE TREATED AS SPECIFIED ABOVE FOR JOINTS, EXCEPT FOLD REINFORCING TAPE LENGTHWISE THROUGH THE MIDDLE AND FIT NEATLY INTO CORNER.
- FIT CORNER BEAD NEATLY OVER OUTSIDE CORNER; SECURE WITH SAME TYPE FASTENERS USED FOR WALLBOARD, SPACING FASTENERS APPROXIMATELY SIX INCHES (6") ON CENTER AND DRIVING THROUGH WALLBOARD INTO FRAMING OR FURRING MEMBER. AFTER CORNER - PIECE IS SECURED IN POSITION, TREAT CORNER WITH JOINT COMPOUND AND REINFORCING TAPE AS SPECIFIED ABOVE FOR JOINTS, FEATHERING COMPOUND OUT FROM EIGHT INCHES (8") TO TEN INCHES (10") ON EACH SIDE OF CORNER.
- WHENEVER INTERIOR PARTITIONS ARE TO ALIGNED WITH EXTERIOR WINDOW MULLION, TWO NESTED STUDS ARE TO BE INSTALLED FROM THE SILL TO THE CEILING. THE STUDS SHALL BE CENTERED ON VERTICAL MULLIONS AND ATTACHED TO THE MULLION USING ONLY FULL LENGTH DOUBLE SIDED NEOPRENE FOAM TAPE. A THIRD STUD SHALL THEN BE INSTALLED FROM FLOOR TO CEILING AND ATTACHED TO THE NESTED PAIR, AFTER WALLBOARD HAS BEEN INSTALLED, USE METAL TRIM TO FINISH EDGE OF WALLBOARD AT MULLION, FINISH END TO MATCH MULLION COLOR.

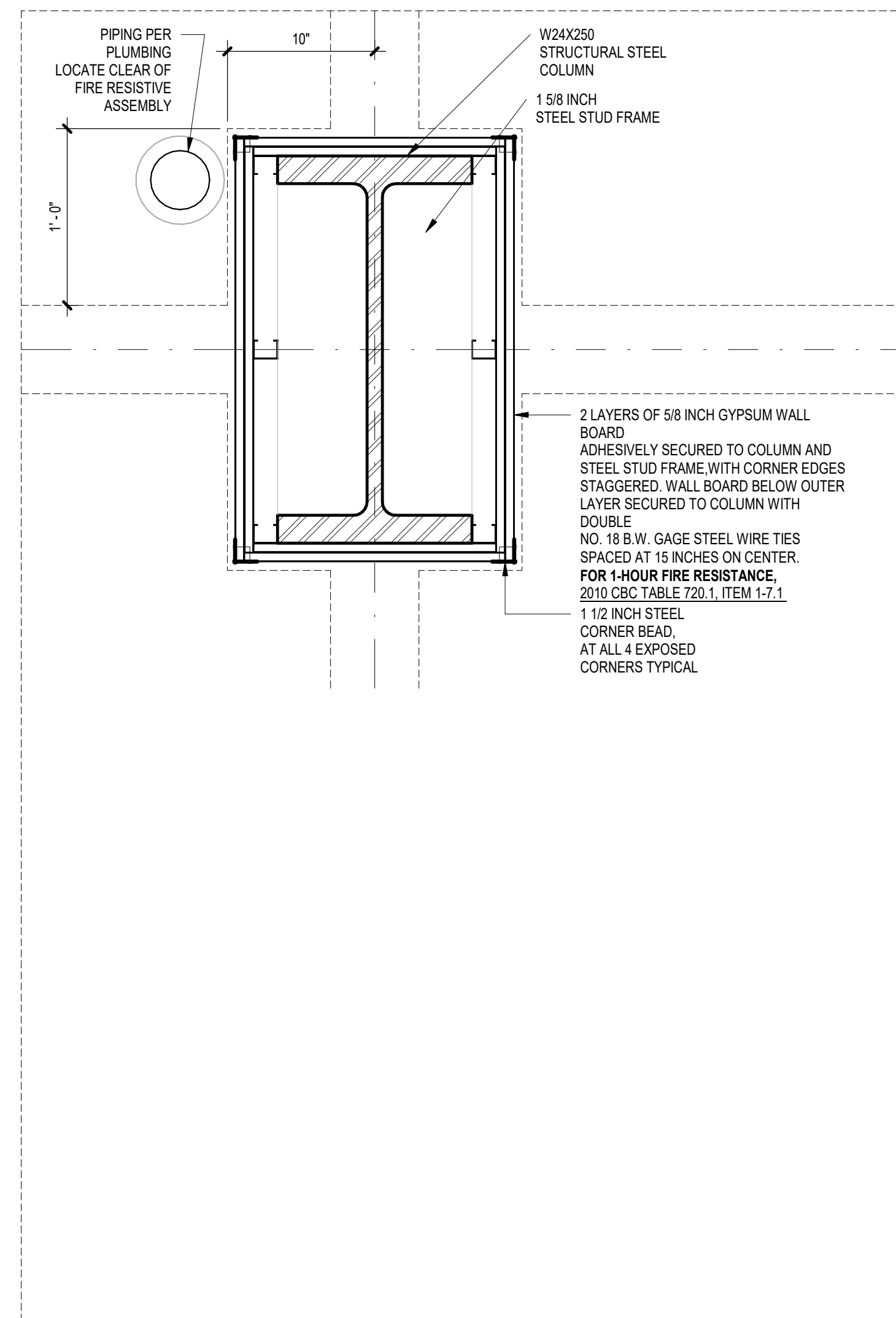
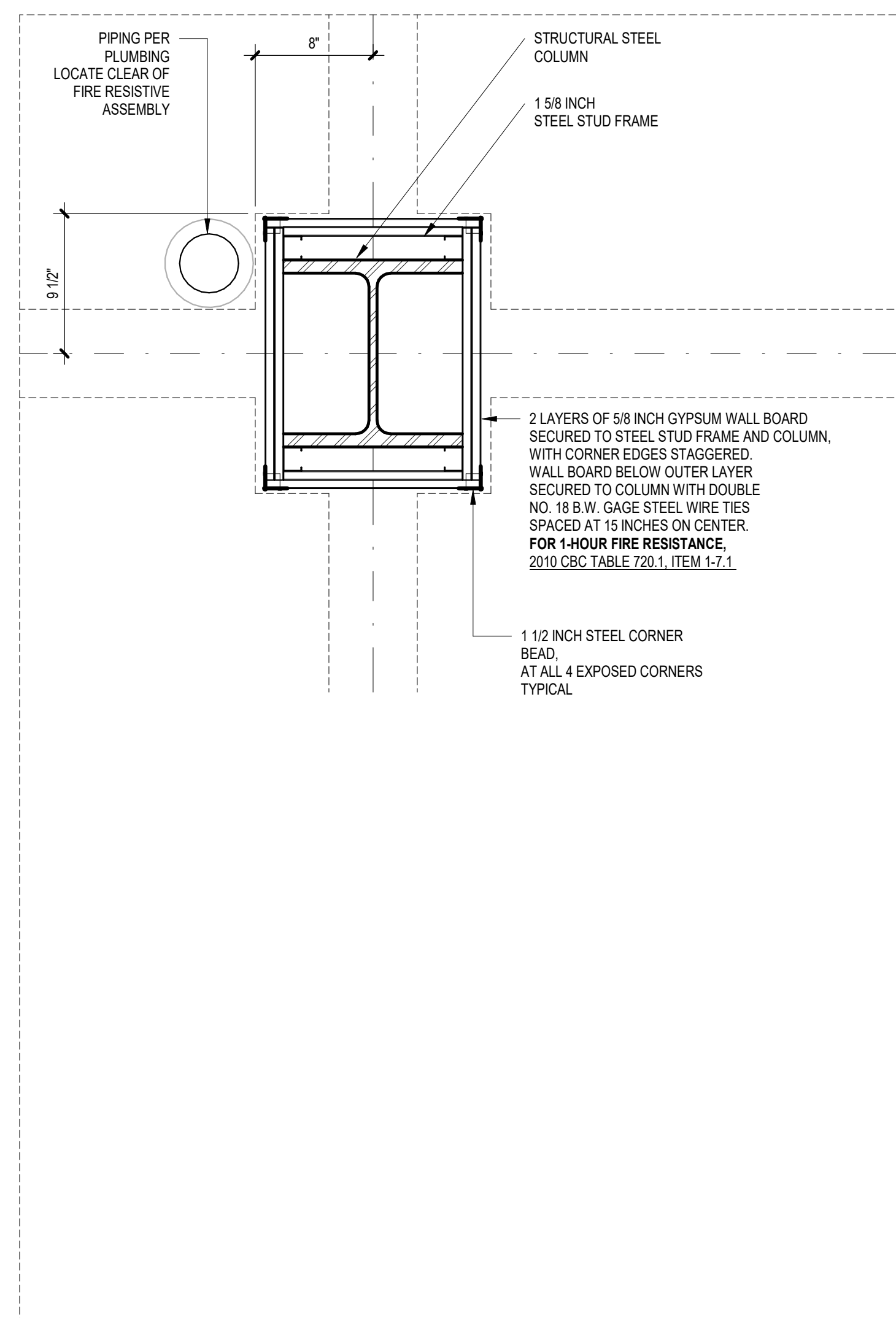
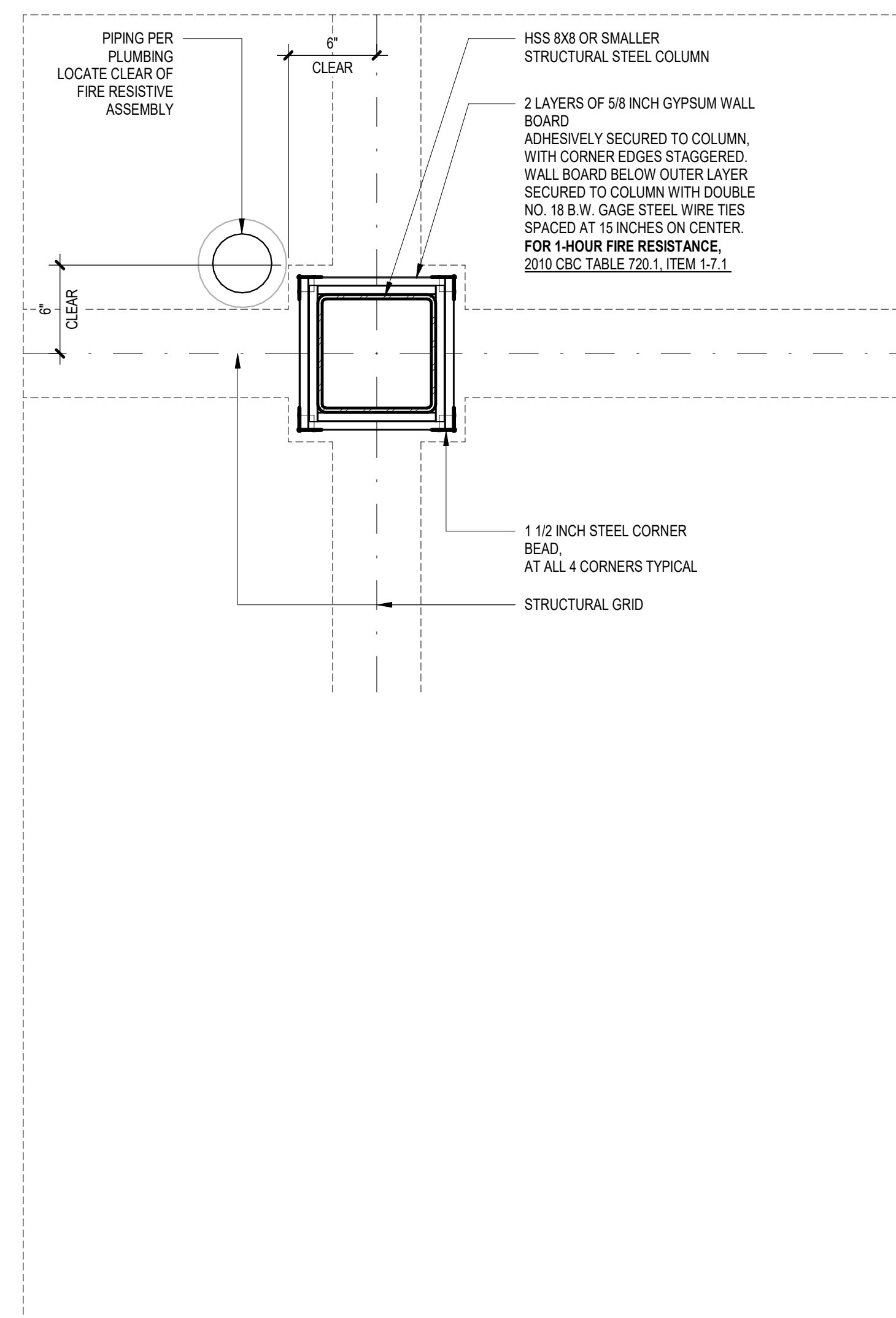
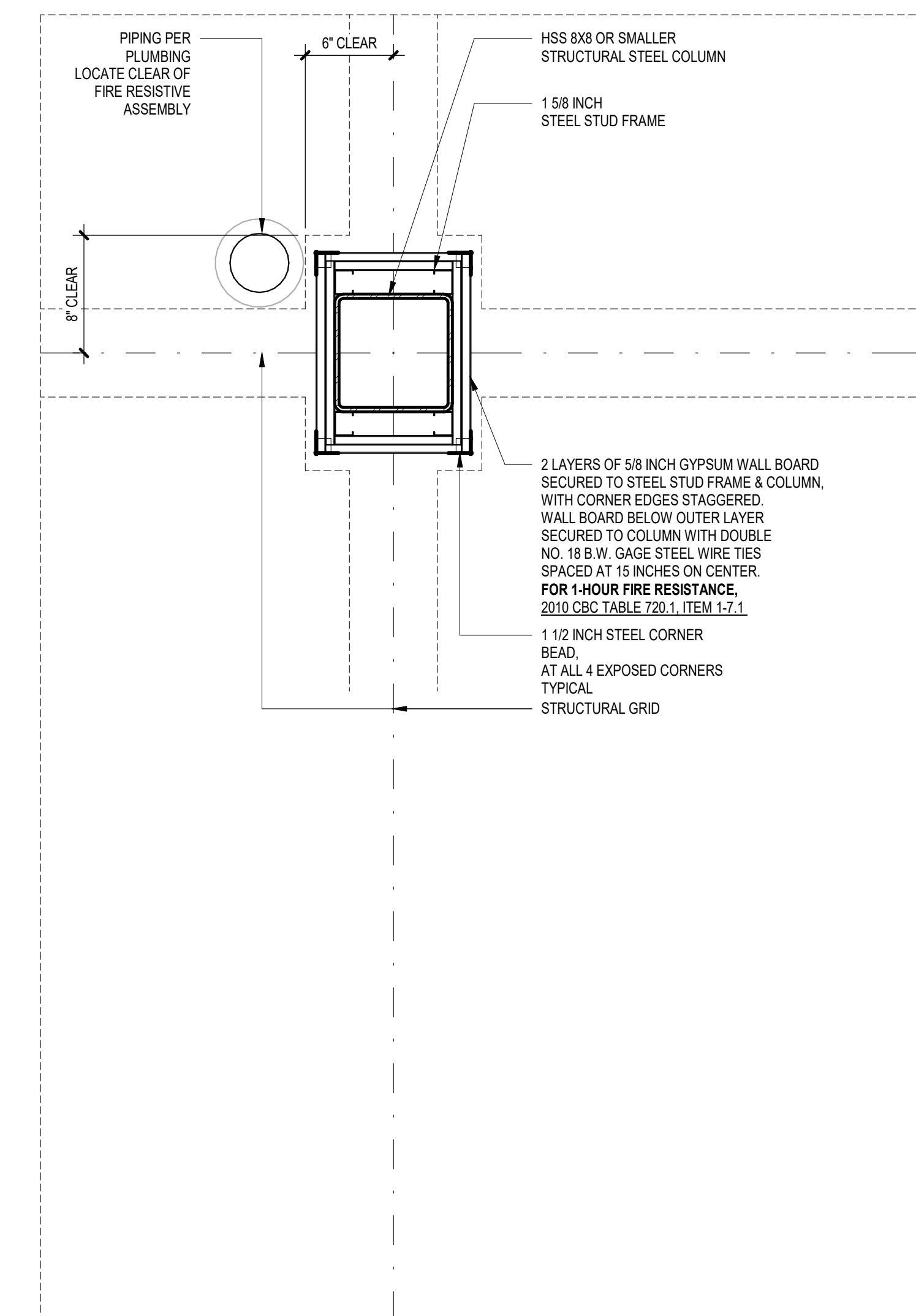
- IF FRAMING MEMBERS ARE CUT OUT OF ALIGNMENT, BOWED OR WARPED , CORRECT TO MAKE TRUE SURFACE BEFORE APPLICATION OF BOARD , USE CORRECTION METHOD APPROVED BY OWNER. MAKE FINISH WALLS OR CEILING PLUMB AND LEVEL , FREE OF UNEVENNESS AT JOINTS AND WITHOUT RIDGES, BOWS OR WARPS.
- END JOINTS OF DRY WALL SHALL BE STAGGERED , JOINTS ON OPPOSITE SIDES OF A PARTITION SHALL BE SO ARRANGED AS TO OCCUR ON DIFFERENT STUDS.
- ARRANGE DRY WALL PANELS SO THAT VERTICAL ABUTTING JOINTS ARE NO CLOSER THAN EIGHT INCHES (8") FROM CORNERS OF DOORS AND OTHER OPENINGS.
- FOR INSTALLATION OF DRYWALL PANELS, SPACE SCREWS 12 INCHES ON CENTERS WHEN SUPPORTS ARE 24 INCHES ON CENTERS. IN ALL INSTANCES STANDARD.
- APPLY METAL TRIM AT ALL EXPOSED EDGES. EXPOSED EDGES SHALL BE FORMED USING ONLY FINISHED FACTORY EDGE OF GYPSUM BOARD. APPLY CORNER BEADS AT ALL EXTERNAL CORNERS. INSTALL ALL METAL TRIM IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDED INSTALLATION METHODS. REMOVE EXISTING CORNER BEAD FROM WALL THAT IS TO ALIGN WITH A NEW WALL; TAPE, FLOAT AND SAND SMOOTH.
- INSPECT ALL JOINT AREAS: BE CERTAIN WALLBOARD FITS SNUGLY AGAINST SUPPORTING FRAMEWORK.
- IN JOINTING AND FINISHING AREAS, MAINTAIN TEMPERATURE NOT LESS THAN 55 DEGREES F. FOR 24 HOURS PRIOR TO STARTING, FOR ENTIRE PERIOD OF JOINTING, AND UNTIL ALL COMPOUNDS HAVE DRIED.
- MIX ALL ADHESIVE AND JOINT COMPOUNDS IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
- EMBEDDING COMPOUND SHALL BE APPLIED TO JOINTS AND FASTENER HEADS IN THIN, UNIFORM LAYER. SPREAD NOT LESS THAN THREE INCHES (3") WIDE AT JOINTS, CENTERING REINFORCING TAPE IN THE JOINT AND EMBED TAPE IN COMPOUND, THEN SPREAD THIN LAYER OF COMPOUND OVER TAPE. AFTER COMPOUND HAS DRIED, APPLY SECOND COAT TO JOINTS AND FASTENER HEADS, SPREADING IN THIN, UNIFORM COAT TO NOT LESS THAN SIX INCHES (6") WIDE AT JOINTS, FEATHER - EDGED, WHEN THOROUGHLY DRY, SANDPAPER TO EFFECT UNIFORMLY SMOOTH SURFACES, TAKING ALL NECESSARY CARE NOT TO SCUFF THE PAPER SURFACE OF THE WALLBOARD.
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- WHENEVER INTERIOR PARTITIONS ARE TO ALIGNED WITH EXTERIOR WINDOW MULLION, TWO NESTED STUDS ARE TO BE INSTALLED FROM THE SILL TO THE CEILING. THE STUDS SHALL BE CENTERED ON VERTICAL MULLIONS AND ATTACHED TO THE MULLION USING ONLY FULL LENGTH DOUBLE SIDED NEOPRENE FOAM TAPE. A THIRD STUD SHALL THEN BE INSTALLED FROM FLOOR TO CEILING AND ATTACHED TO THE NESTED PAIR, AFTER WALLBOARD HAS BEEN INSTALLED, USE METAL TRIM TO FINISH EDGE OF WALLBOARD AT MULLION, FINISH END TO MATCH MULLION COLOR.

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**GENERAL NOTES -
FIRE PROTECTION AT STRUCTURE**

1. THE PURPOSE OF THESE DIAGRAMS IS TO ILLUSTRATE THE FIRE PROTECTION REQUIREMENTS OF THE PRIMARY AND SECONDARY STRUCTURAL FRAME REQUIRED BY 2010 CALIFORNIA BUILDING CODE TABLE 601.
 2. FOR ADDITIONAL U.S. DESIGN INFORMATION, MAKE REFERENCE TO A551 THRU A555
 3. FOR ADDITIONAL INFORMATION ON SPRAYED FIRE-RESISTANT MATERIALS REFER TO SPECIFICATION 07 81 00 - APPLIED FIRE PROOFING. TABLE 601.2 PROVIDES THE MINIMUM THICKNESS REQUIREMENTS PER SPECIFIC STRUCTURAL MEMBER.
 4. PER CBC 704.6, ATTACHMENTS TO STRUCTURAL MEMBERS INCLUDING LUGS, BRACKETS, RIVETS AND BOLTS SHALL BE OF THE PRIMARY STRUCTURAL FRAME. 1 INCH OF THE SURFACE OF THE FIRE PROTECTION.
 5. PER CBC 704.11, FIRE PROTECTION IS NOT REQUIRED AT THE BOTTOM FLANGE OF LINTELS, SHELF ANGLES AND PLATES SPANNING NOT MORE THAN 6 FEET.
- THE BOTTOM FLANGE OF THE PRIMARY STRUCTURAL FRAME LINTEL, OR NOT, AND FROM THE BOTTOM FLANGE OF THE PRIMARY SHELF ANGLES AND PLATES NOT MORE THAN 6 FEET OF THE PRIMARY STRUCTURAL FRAME, REGARDLESS OF SPAN.



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MEP Engineer:

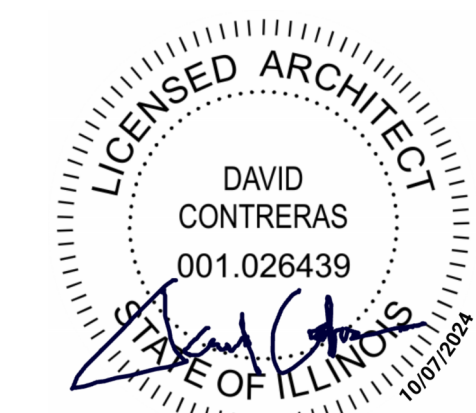
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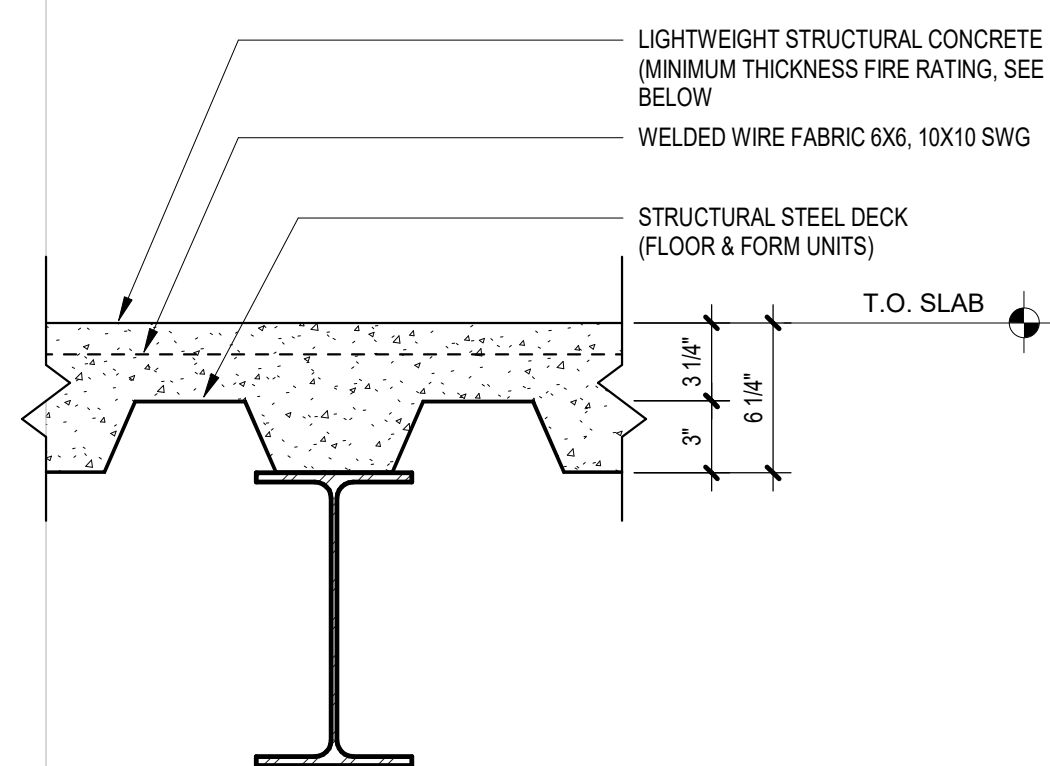
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Compliance - Part 5 - Structure Fire Protection

A007

UL DESIGN NUMBER D925:
COMPOSITE STRUCTURAL DECK
RESTRAINED ASSEMBLY FOR
- 2 HOUR FIRE BARRIER



1. **NORMAL WEIGHT CONCRETE OR LIGHTWEIGHT CONCRETE** - Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

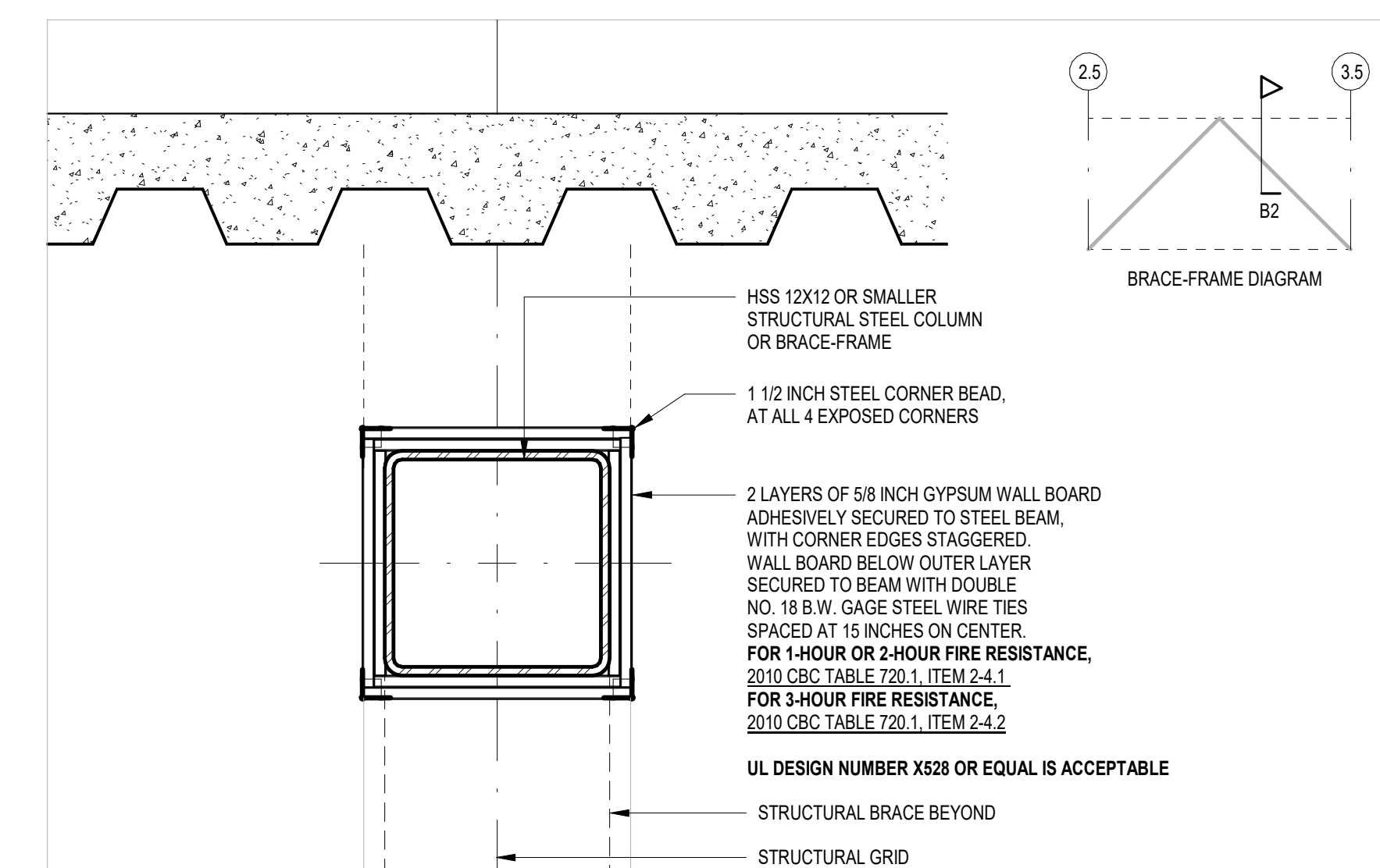
CONCRETE (RESTRAINED ASSEMBLY)

RATING (HOURS)	TYPE	UNIT WEIGHT (PCF)	THICKNESS (INCHES)
1	NORMAL WEIGHT	147-153	3-1/2
1-1/2	NORMAL WEIGHT	147-153	4
2	NORMAL WEIGHT	147-153	4-1/2
3	NORMAL WEIGHT	147-153	5-1/4
3/4 OR 1	LIGHTWEIGHT	107-113	2-1/2
1	LIGHTWEIGHT	107-120	2-5/8
1-1/2	LIGHTWEIGHT	107-113	3
2	LIGHTWEIGHT	107-113	3-1/4
2	LIGHTWEIGHT	107-113	3-1/4"
2	LIGHTWEIGHT	114-120	3-1/2
3	LIGHTWEIGHT	107-113	4-3/16

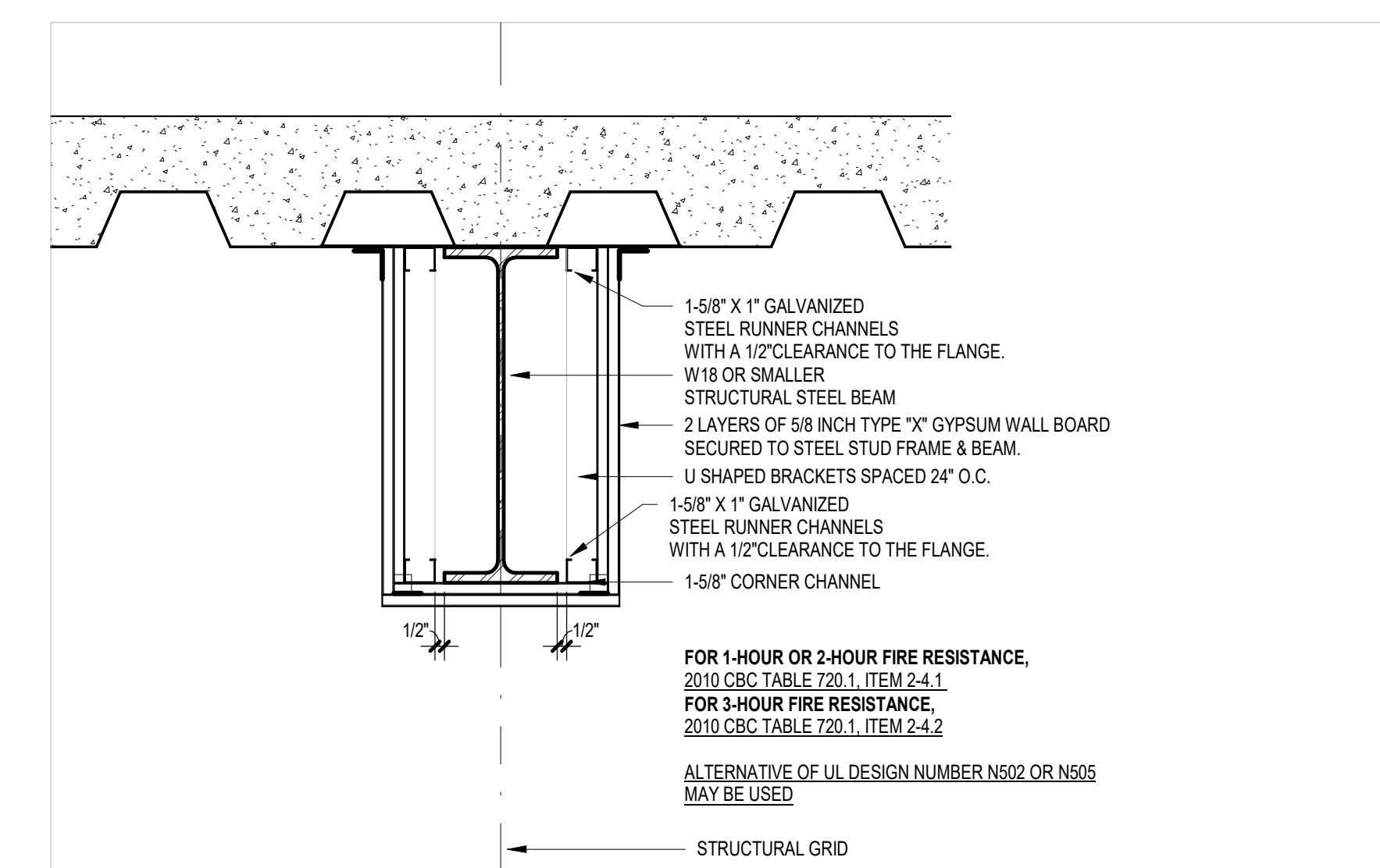
2. WELDED WIRE FABRIC 11X6-10X10 SWG, AS SPECIFIED BY STRUCTURAL

3. STEEL FLOOR AND FORM UNITS - Composite 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep
 1) 18, 24, 26, 28 or 36 in. wide cellular units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for
 fluted and 20 MSG for cellular units. The following combinations of units may be used:
 (1) 18, 18, 24, 26, 28 or 36 in. wide, cellular.
 (2) All fluted.
 (3) One or two 18, 24, 26, 28 or 36 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep
 18, 24, 26, 28 or 36 in. wide, cellular.
 (4) Any blend of fluted and 18, 24, 26, 28, or 36 in. wide, cellular.
 2) 18, 24, 26, 28 or 36 in. wide cellular with 8-18 in. wide valley alongside joints may be used when 3/8 in.
 reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of units
 and welded, 1-5/16 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory
 welded to deck.
 3) 18, 24, 26, 28 or 36 in. wide cellular with 8-18 in. wide valley alongside joints may be used when 3/8 in.
 or, less the
 12 in. steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. or KSI, but less
 than or equal to
 12 in. steel deck stress shall not exceed 12 KSI.

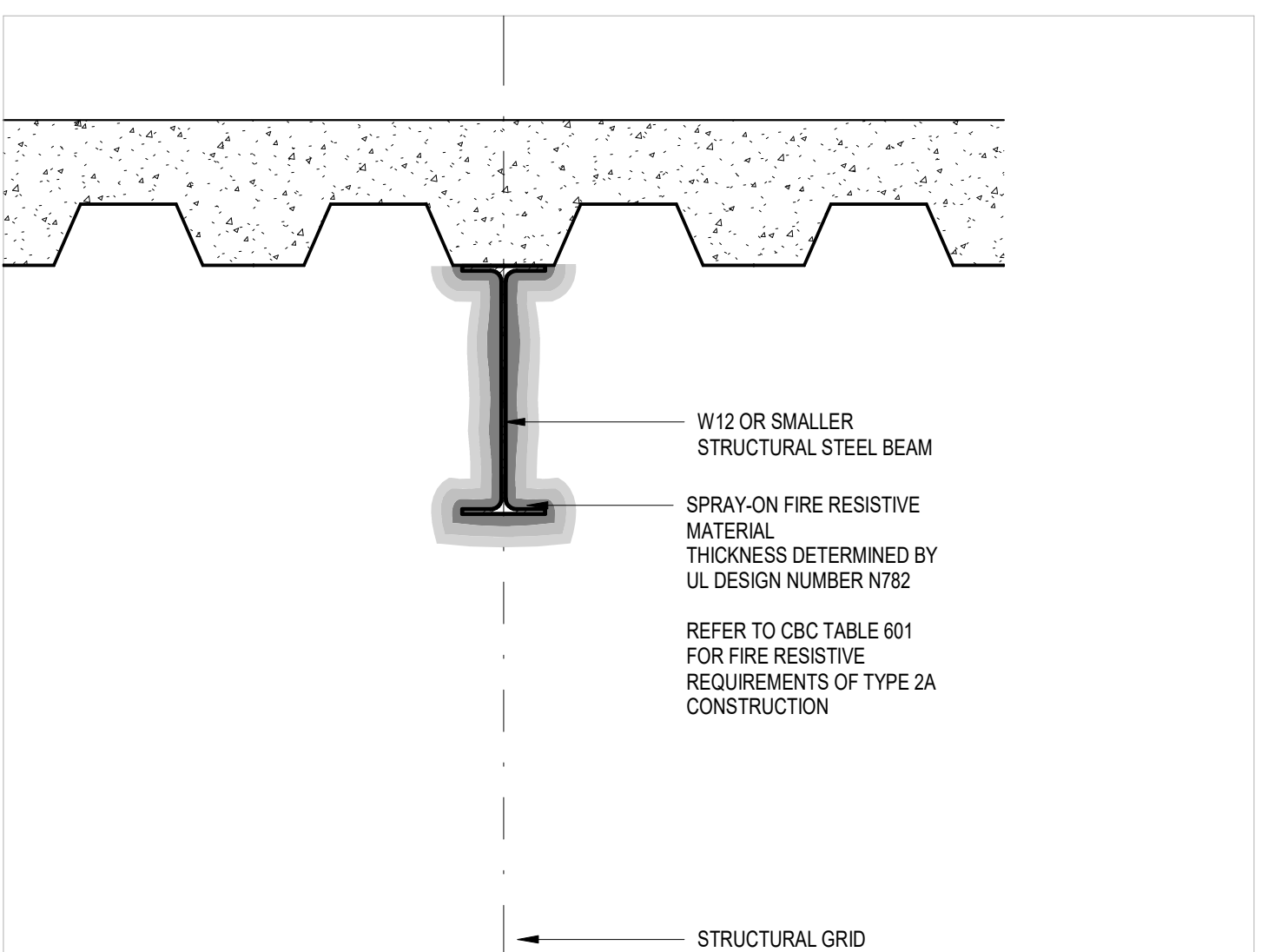
9 FIRE PROTECTION - COMPOSITE
STRUCTURAL DECK
1 1/2" = 1'-0"



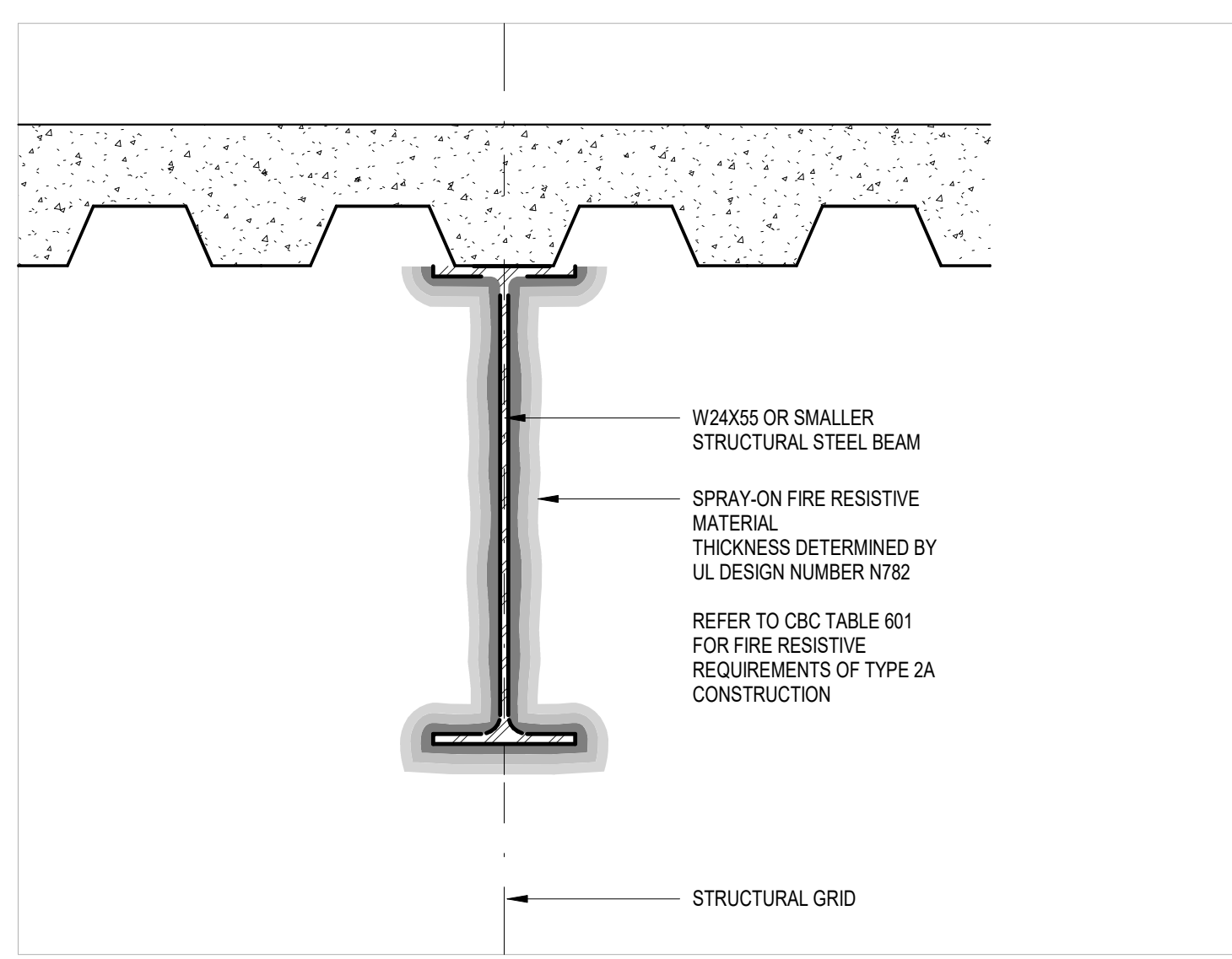
5 FIRE PROTECTION - GYPSUM WALL BOARD FOR STRUCTURAL STEEL BRACE FRAME BEAM
1 1/2" = 1'-0"



FIRE PROTECTION - GYPSUM
WALLBOARD FOR STRUCTURAL STEEL
BEAM W18
1 1/2" = 1'-0"



FIRE PROTECTION - SPRAY ON FOR
STRUCTURAL STEEL BEAM W12 OR
SMALLER
1 1/2" = 1'-0"



8 FIRE PROTECTION - SPRAY ON FOR
STRUCTURAL STEEL BEAM W24
 $1\frac{1}{2}" = 1'-0"$

BASIS OF DESIGN
1. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

GENERAL STRUCTURAL NOTES

- COORDINATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.
- DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS THAT DO NOT CONFORM TO CODES, RULES AND REGULATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- TYPICAL DETAILS AND NOTES ON THE SN AND ST SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED CONDITIONS. ALL CONSTRUCTION WORK SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.
- TRADE NAMES: WHERE AN ITEM IS IDENTIFIED BY A TRADE NAME THE SUFFIX "OR APPROVED EQUIVALENT" SHALL BE IMPLIED UNLESS SPECIFICALLY NOTED OTHERWISE.
- STANDARDS: EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE NOTED OR SHOWN IN THE PLANS OR SPECIFICATIONS, ALL PHASES OF WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2018 IBC ADOPTED BY THE CITY OF VALPARAISO.
- BUILDING LIVE LOADS:
SNOW LOAD 20 PSF
ROOF 20 PSF**
PLATFORM 100 PSF
**REDUCIBLE DEPENDING UPON TRIBUTARY AREA
**REDUCIBLE DEPENDING UPON TRIBUTARY AREA, AND SLOPE
- INSPECTION: WHEREVER SPECIAL AND/OR CONTINUOUS INSPECTION IS CALLED FOR IN THESE NOTES OR THE BUILDING CODES, SUCH INSPECTION SHALL BE PERFORMED BY A TESTING LABORATORY EMPLOYED BY THE OWNER. JOB SITE VISITS BY THE ENGINEER SHALL NOT CONSTITUTE AN OFFICIAL INSPECTION.
- PRE-CONSTRUCTION MEETING: PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION, THE ARCHITECT SHALL CONDUCT A MEETING TO ESTABLISH SUBMITTAL ROUTES, SCHEDULES AND SERVICING REQUIREMENTS FOR THE CONSTRUCTION ADMINISTRATION OF THE PROJECT. REPRESENTATIVES FROM THE ENGINEER, TESTING LABORATORY, BUILDING DEPARTMENT, CONTRACTOR, AND OTHER DESIGN PROFESSIONALS AS MAY BE APPROPRIATE WILL ATTEND. (" IF NECESSARY").
- OTHER TRADES: SEE ARCHITECTURAL AND CONSULTANT DRAWINGS FOR SIZE AND LOCATION OF PIPE, OTHER DEVICES, ANCHOR BOLT REQUIREMENTS FOR EQUIPMENT AND OTHER DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
- MATERIALS AND WORKMANSHIP: THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT AND SHOWN OR INDICATED ON THESE DRAWINGS. ALL MATERIAL SHALL BE NEW MATERIALS. SUBCONTRACTORS SHALL BE SKILLED IN THEIR TRADE.
- MATERIALS AND WORKMANSHIP WARRANTY: THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS AND CORRECT POOR WORKMANSHIP WITH NO ADDITIONAL COSTS TO THE OWNER, AND SHALL REMEDY ANY DEFECTS IN MATERIAL OR THIS WARRANTY APPLIES TO THE WORK DONE BY THE SUBCONTRACTORS AS WELL AS THE WORK DONE BY THE EMPLOYEES OF THE CONTRACTOR.
- SAFETY: THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
- SIDEWALK PROTECTION: PEDESTRIAN TRAFFIC SHALL BE PROTECTED AS SPECIFIED IN SECTION 3306 OF THE 2018 IBC ADOPTED BY THE CITY OF VALPARAISO.
- SHORING: IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING AND FORMWORK, ETC., AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING.
- EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF NEWPORT BEACH AND WITH THE JOINING PROPERTY. THE PREMISES SHALL BE KEPT FROM ACCUMULATION OF WASTE MATERIALS, AND DEBRIS, AND AT THE END OF THE JOB THE CONTRACTOR SHALL REMOVE ALL RUBBISH, SURPLUS OF MATERIALS, AND TOOLS AND LEAVE THE BUILDING BROOM CLEAN.
- SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST CONSTRUCTION DOCUMENTS.
- SHOP DRAWING CHECK: THE REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REVIEW DOES NOT GUARANTEE THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT IMPLY THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.
- SUBSTITUTIONS: BEFORE SUBSTITUTIONS FOR ANY MATERIALS OR SYSTEMS SHOWN ON THE DRAWINGS OR CALLED OUT IN THE SPECIFICATIONS WILL BE CONSIDERED, THE PERSON PROPOSING THE SUBSTITUTION SHALL SUBMIT A WRITTEN LETTER TO THE STRUCTURAL ENGINEER STATING THE FOLLOWING:
A. THE PROPOSER AGREES TO PAY THE ENGINEER FOR THE COST OF EVALUATING THE PROPOSED CHANGE.
B. THE PROPOSER AGREES TO PAY THE ENGINEER FOR THE COST OF CHANGING THE DRAWINGS AND DETAIL(S) SHOULD THIS BE REQUIRED BY THE BUILDING DEPARTMENT OR SHOULD THE ENGINEER DECIDE IT IS NECESSARY.
C. THE NET SAVING SHALL BE PASSED ON TO THE OWNER SHOULD THE SUBSTITUTION BE APPROVED.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.

CONCRETE NOTES

- COMPRESSIVE STRENGTH: THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF ALL CONCRETE SHALL BE 2500 PSI MIN AT 28 DAYS UNLESS NOTED OTHERWISE. REFER TO PLANS AND TABLE FOR THE DESIGN STRENGTH OF CONCRETE FOR SPECIFIC STRUCTURAL ELEMENTS. DESIGN OF MIXES SHALL BE BY AN APPROVED TESTING LABORATORY AND SIGNED BY A REGISTERED ENGINEER.
- WEIGHT: ALL CONCRETE SHALL BE "NORMAL WEIGHT" UNLESS NOTED OTHERWISE.
- CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO, BY WEIGHT, OF 0.45
- CEMENT: CEMENT SHALL CONFORM TO THE ASTM C150-09 TYPE V.
- AGGREGATE: AGGREGATE SHALL CONFORM TO ASTM C33-08.
- SPECIAL INSPECTIONS: SEE THE SPECIAL INSPECTION TABLE AND THE SPECIAL INSPECTION NOTE SHEET FOR ANY INSPECTIONS REQUIRED TO BE MADE.
- CONCRETE PLACEMENT AND QUALITY: SHALL CONFORM TO APPLICABLE RECOMMENDATIONS OF ACI SP-15. A COPY OF SP-15 SHALL BE AVAILABLE AT CONSTRUCTION SITE DURING THE PROJECT.
- DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING OF CONCRETE.
- DOWELING: ALL WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS, WALLS, BEAMS, OR SLABS AS SHOWN OR NOTED ON THE DRAWINGS.
- SPLICES: VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. SPLICE BARS IN SPANDRELS, WALLS, BEAMS, GRADE BEAMS, ETC., UNLESS NOTED OTHERWISE AS FOLLOWS: TOP BARS AT MID-POINT OF SPAN, BOTTOM BARS AT THE SUPPORT. ALL REINFORCING STEEL SHALL BE SECURELY WIRED AND PROPERLY SUPPORTED ABOVE THE GROUND AND AWAY FROM FORMS AS SHOWN OR NOTED.
- INSERTS: ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURE AND POSITIONED BEFORE PLACING OF CONCRETE.
- CONDUIT AND PIPES: CONDUIT AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER OR RECORD. MAXIMUM CONDUIT AND PIPE SIZE SHALL BE 1/3 OF THE SLAB OR WALL THICKNESS AND LOCATED AT ITS MID DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE CONDUIT/PIPE DIAMETER. CONDUIT AND PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER. CONDUIT AND PIPES SHALL NOT BE ALUMINUM. CONDUIT AND PIPES SHALL NOT DISPLACE MORE THAN 4% OF THE CROSS SECTION AREA.
- CONSTRUCTION JOINTS: SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL SLABS, BEAMS, AND WALLS.
- NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 9000 PSI. USE "SIKA GROUT 212" OR MASTERFLOW 928
- TIEBACKS: USING DYPWIDAG PERMANENT STRAND ANCHOR SYSTEM WITH DCP (DOUBLE CORROSION PROTECTION). STRANDS ARE TO BE 6" Ø 7-WIRE, LOW RELAXATION 270KSI, CONFORMING TO ASTM A882 OR ASTM A416 AND MANUFACTURER SPECIFICATIONS. MINIMUM GROUT STRENGTH OF 4500PSI WITH A 0.45 WATER TO CEMENT RATIO. INSTALL PER MANUFACTURER SPECIFICATIONS.

REINFORCING STEEL NOTES

- GRADE: ALL REINFORCING STEEL SHALL BE DEFORMED BARS WHICH SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF ASTM A-615 GRADE 60.
- WELDED WIRE MESH: ELECTRIC WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. SIZE SHALL BE AS SHOWN ON THE DRAWINGS. MINIMUM LAPS TO BE 12".
- MINIMUM LAP: REINFORCING STEEL SHALL BE SPLICED WITH A MINIMUM LAP OF 48 DIAMETERS IN MASONRY, EXCEPT WHEN SHOWN OR NOTED OTHERWISE. SEE LAP/SPLICE DETAILS.
- MINIMUM COVER: REINFORCING STEEL TO HAVE THE FOLLOWING MINIMUM COVER:
CONCRETE AGAINST EARTH (NOT FORMED) 3"
CONCRETE EXPOSED TO EARTH OR WEATHER (FORMED OR TROWELED) #6 - #15 BARS 1 1/2"
#6 AND SMALLER 1"
GRADE @ CL OF SLAB
CONCRETE SLAB (FORMED) 1-1/2"
STRUCTURAL SLAB AND WALLS 1"
BEAMS AND COLUMNS
a. PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS) 1-1/2"
- WELDING: LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING TO REINFORCING BAR, BUT ONLY WHERE SHOWN OR NOTED BY THE STRUCTURAL ENGINEER.
- WELDING: GRADE 60 REBAR SHALL BE PREHEATED, WHEN WELDING, AS PRESCRIBED BY AWS D1.4 FOR VARIOUS SIZE BARS. REBAR SHALL BE ASTM A 706 GRADE 60.
- DOWELING: DOWELS SHALL BE PROVIDED AT CONSTRUCTION JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS DETAILED OR #3 @ 12" O.C. X 3'-0" LONG (MINIMUM).
- TOLERANCE FOR REBAR PLACEMENT: TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS 2 INCHES EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE TOLERANCES SHALL BE PLUS OR MINUS 1/2 INCH.
- TEMPERATURE REINFORCEMENT: SHALL HAVE A LAP OF 48 BAR DIAMETERS BUT NOT LESS THAN 12 INCHES, AND THE SPLICE IN ADJACENT BARS SHALL BE NOT LESS THAN 5 FEET APART.

SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHORS:

- ANCHOR MANUFACTURER: WHERE ADHESIVE ANCHORS ARE CALLED FOR ON THESE PLANS, THE CONTRACTOR SHALL USE THE "SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHOR SYSTEM" BY SIMPSON STRONG-TIE COMPANY INC. INSTALLED PER REQUIREMENTS OF ICC-ES REPORT NO. ESR-4057, DATED JULY 2020.
- ADHESIVE REQUIREMENT: THE ADHESIVE USED WITH THESE ANCHORS SHALL BE "SIMPSON SET-3G EPOXY ADHESIVE" INSTALLATION OF WHICH SHALL PER THE ABOVE REFERENCED ICC-ES REPORT AND BE UNDER THE CONTINUOUS OBSERVATION OF A SPECIAL INSPECTOR PER THE ICC-ES REPORT.
- ANCHOR RODS: ANCHOR RODS SHALL BE CONTINUOUSLY THREADED STEEL RODS CONFORMING TO ASTM A 193, GRADE B7.
- INSTALLATION INFORMATION: THE CONTRACTOR SHALL OBTAIN AND RETAIN ON THE PREMISES A COPY OF THE ABOVE REFERENCED ICC-ES REPORT.
- ANCHOR LOCATIONS: REFER TO THE DRAWING AND DETAILS FOR LOCATION AND SPECIFIC ANCHOR SIZE, SPACING AND EMBEDMENT.

STRUCTURAL STEEL NOTES

- MATERIALS: ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING U.N.O.:

SHAPE	ASTM DESIGNATION	YIELD STRESS
A. W (WIDE FLANGE)	ASTM A992	(FY=50KSI)
B. WT (TEE)	ASTM A992	(FY=50KSI)
C. (CHANNEL)	ASTM A36 OR A992	(FY=36, 50KSI)
D. MC (MISCELLANEOUS CHANNEL)	ASTM A36	(FY=36KSI)
E. L (ANGLE)	ASTM A36	(FY=36KSI)
F. M, S, MT AND ST	ASTM A36	(FY=36KSI)
G. HP (BEARING PILES)	ASTM A572 GRADE 50	(FY=50KSI)
H. HSS RECTANGLE	ASTM A500 GRADE C	(FY=46KSI)
I. HSS ROUND	ASTM A500 GRADE C	(FY=46KSI)
J. STEEL PIPE	ASTM A53 GRADE B	(FY=35KSI)
K. PLATES AND BARS	ASTM A572 GRADE 50	(FY=50KSI)
L. MISCELLANEOUS STEEL	ASTM A572 GRADE 50	(FY=50KSI)

- MATERIALS: ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992 GR. 50, AND ALL STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A572 GR. 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A-53 GRADE B. STRUCTURAL STEEL TUBE SHALL CONFORM TO ASTM A-500 GRADE B - 46KSI.
- WELDING: ALL WELDS SHALL BE IN CONFORMITY WITH THE STAND CODE FOR ARC AND GAS WELDING OF AMERICAN WELDING SOCIETY (AWS) AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). ALL STRUCTURAL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS USING THE SHIELDED ELECTRIC ARC PROCESS WITH APPROVED ELECTRODES. ALL WELDS FOR LATERAL FORCE RESISTANCE COMPONENTS SHALL BE OF A NOTCH TOUGH WELD METAL (CVN 20FT#60-DEG.F. AND 40FT#70DEG.F.) AND E70XX (70KSI) ELECTRODES SUCH AS E7018 FOR SHIELDED METAL ARC WELDING OR EQUIVALENT ACCORDING TO (AWS) REQUIREMENTS. ALL OTHER WELDS SHALL BE OF MIN E70XX (70KSI) ELECTRODES.
- SHOP WELDING: SHOP WELDING SHALL BE PERFORMED ONLY IN THE SHOP OF AN APPROVED LICENSED FABRICATOR.
- FIELD WELDING: ALL FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL BE CONTINUOUSLY INSPECTED BY A REGISTERED SPECIAL INSPECTOR.
- BOLTS: ALL BOLTS SHALL BE UNFINISHED BOLTS CONFORMING TO THE FOLLOWING UNO:
A. HIGH STRENGTH CONVENTIONAL ASTM F1525 GR. A325 OR GR. A490
B. HIGH STRENGTH TENSION-CONTROL ASTM F1525 GR. F1852 OR GR. F2280
- BOLT HOLES: BOLT HOLES IN STEEL TO BE 1/16" LARGER DIAMETER THAN THE NOMINAL BOLT SIZE USED EXCEPT AS NOTED OTHERWISE.
- NUTS AND WASHER SHALL CONFORM TO THE FOLLOWING UNO:
A. NUTS ASTM A563
B. HARDENED WASHERS ASTM F436
C. DIRECT-TENSION INDICATOR WASHER ASTM F959
- ANCHOR RODS SHALL BE ASTM F1554 GRADE 55 S1, THREADED AND NUTTED UNLESS NOTED OTHERWISE. ANCHOR ROD WASHER MAY BE ASTM F844. STANDARD COT WASHER SHALL BE BETWEEN DOUBLE NUT AT EMBEDDED END OF ANCHOR ROD.
- STEEL HEADED STUD ANCHORS SHALL BE ASTM A108 UNLESS NOTED OTHERWISE.
- STEEL FRAMES: ALL STRUCTURAL STEEL FOR FRAMES SHALL CONFORM TO ASTM A992 GR. 50 PER AISC. ALL WELDS FOR STEEL FRAMES SHALL BE OF A NOTCH TOUGH WELD METAL (CVN 20FT#60-DEG.F. AND 40FT#70DEG.F.) AND E70XX (70KSI) ELECTRODES SUCH AS E7018 FOR SHIELDED METAL ARC WELDING OR EQUIVALENT ACCORDING TO (AWS) REQUIREMENTS. UNLESS OTHERWISE NOTED IN THESE DRAWINGS, COMPLETE-JOINT-PENETRATION WELDS SHALL HAVE THE BACKUP BARS REMOVED, THE EXPOSED WELD BACK GOUGED, GROUND TO SOUND BRIGHT METAL, AND FINALLY REINFORCED WITH A MINIMUM 5/16" FILLET WELD TO COMPLY WITH CURRENT STANDARDS.
- SHOP DRAWINGS: SHOP DRAWINGS SHOULD BE SIGNED & SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS.
- DETAILING: ALL CONNECTIONS AND DETAILING PRACTICE SHALL CONFORM TO THE 14TH EDITION OF A.I.S.C. SPECIFICATIONS.
- CERTIFICATION: AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

METAL STUD NOTES

- STEEL STUDS, TRACKS AND GAUGE SHEET STEEL SHALL BE ASTM A1003 STRUCTURAL GRADE 33, TYPE H STEEL FOR 3/4" AND THINNER, FOR 3/4" AND THICKER, STEEL STUDS, TRACKS AND GAUGE SHEET STEEL SHALL BE ASTM A1003 STRUCTURAL GRADE 50, TYPE H STEEL.
- COLD FORMED STEEL SIZES SPECIFIED SHALL COMPLY WITH THE STEEL STUD MANUFACTURES ASSOCIATION SIZES.
- ALL GALVANIZED STUDS AND TRACKS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF 2015 A.I.S.I. STANDARDS.
- FLAT STRAPS USED FOR PLYWOOD BLOCKING SHALL HAVE A MINIMUM THICKNESS OF 33-MILS WITH A MIN WIDTH OF 1 1/2" AND SHALL BE INSTALLED ON TOP OF BELOW THE SHEATHING TO BE BLOCK. SCREWS SHALL BE INSTALLED THROUGH SHEATHING TO THE BLOCKING.
- WELDING OF LIGHT GAUGE FRAMING SHALL COMPLY WITH ANSIAWS D1.3. WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY.
- FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS.
- CUT FRAMING COMPONENTS, SUCH AS BRACING, SQUARELY OR AT AN ANGLE TO FIT TIGHT AGAINST ABUTTING MEMBERS. HOLD MEMBERS FIRMLY IN POSITIONS UNTIL PROPERLY FASTENED.
- SPLICES IN ANY LIGHT GAUGE MEMBER NOT SPECIFY DETAILING IN THIS SET OF DRAWINGS ARE NOT ALLOWED WITH THE EXCEPTION OF TOP AND BOTTOM TRACKS OF WALLS. REFER TO DETAIL FOR SPICE REQUIREMENTS OF WALL TRACKS.
- ALL METAL SCREW INDICATED ON THESE DRAWINGS ARE HILTI BRAND SELF-DRILLING/SELF-TAPPING STEEL SCREWS AS MANUFACTURED BY HILTI CORPORATION.
- UTILITY PUNCH HOLES IN STUDS SHALL BE LOCATED AWAY FROM CONNECTIONS.
- AXIALLY LOADED BEARING STUDS MUST BE FULLY SEATING INTO THE WALL TRACKS.
- OPENING IN THE STUD WEBS OTHER THAN STANDARD HOLES PUNCHED BY THE MANUFACTURE ARE PROHIBITED UNLESS SPECIFICALLY DETAILED IN THIS SET OF DRAWINGS.

- PREFABRICATED PANELS SHALL BE SQUARED AND BRACED TO AVOID RACKING. LIFT PREFABRICATED PANELS IN A MANNER SO AS NOT TO CAUSE LOCAL DISTORTION OF ANY MEMBER.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & CONNECTION CALCULATIONS SIGNED & SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF FABRICATION OR ERECTION. THESE MUST INCLUDE ALL REQUIRED CONNECTIONS TO STRUCTURE.

HARDWARE NOTES

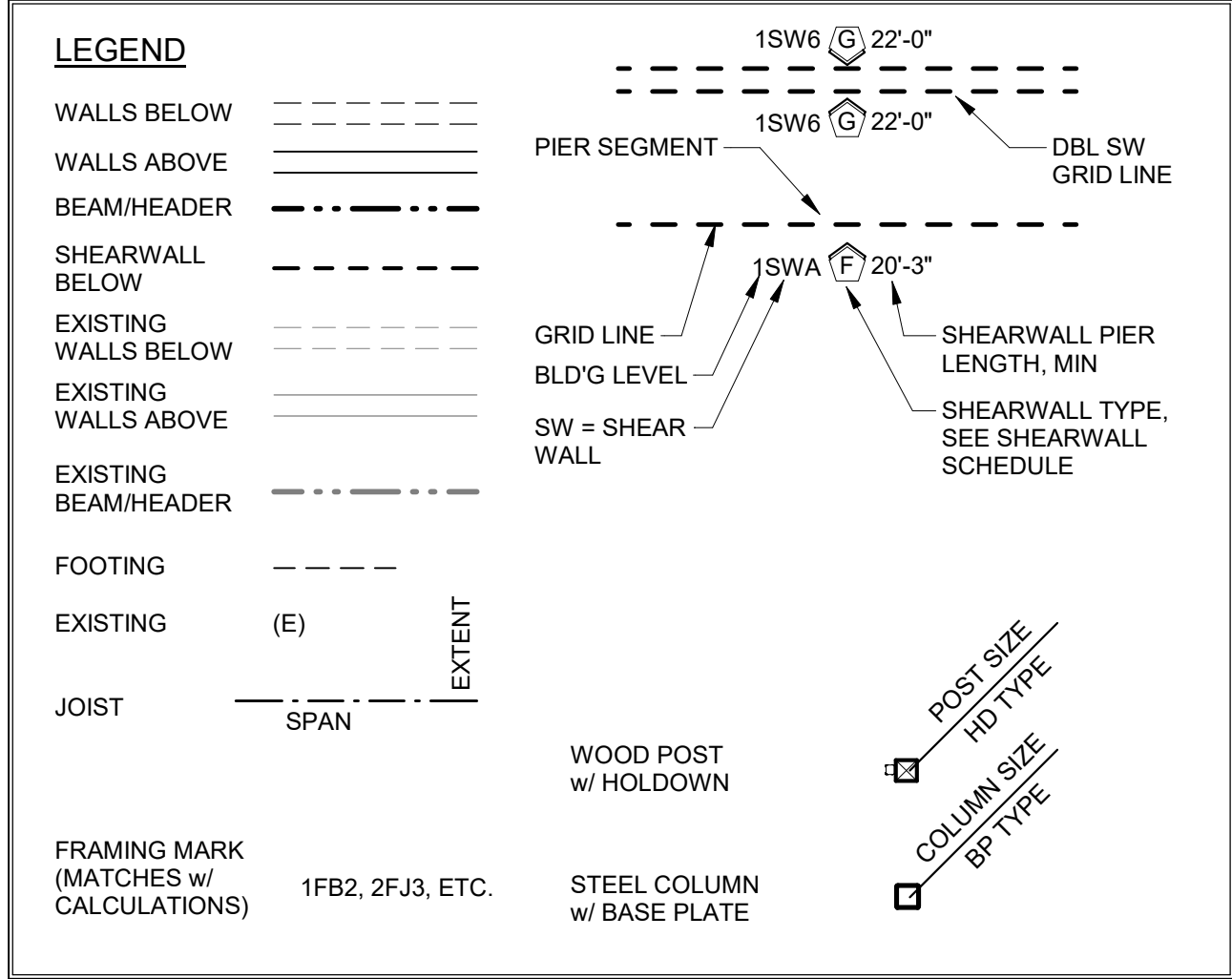
- UNLESS SPECIFICALLY NOTES OTHERWISE, ALL WOOD FRAMING CONNECTORS SHALL BE BY SIMPSON STRONG-TIE. ALL INSTALLATIONS SHALL FOLLOW CURRENT RECOMMENDATION OF SIMPSON AND ICC REPORTS
- WHERE SIMPSON STRONG-TIE ALLOWS THE USE OF ALTERNATE OR ADDITIONAL FASTENERS, THE FASTENER TYPE AND AMOUNT RESULTING IN THE HIGHER CAPACITY SHALL BE USED, UNLESS NOTED OTHERWISE.
- THE NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION SHALL BE FOLLOWED WITH RESPECT TO FABRICATION AND ASSEMBLY OF ALL FASTENERS, EDGE AND END DISTANCE REQUIREMENTS, AND MINIMUM PENETRATION REQUIREMENTS.

SUBSTITUTIONS

- BEFORE SUBSTITUTIONS FOR ANY MATERIALS OR SYSTEMS SHOWN ON THE DRAWINGS OR CALLED OUT IN THE SPECIFICATIONS WILL BE CONSIDERED, THE PERSON PROPOSING THE SUBSTITUTION SHALL SUBMIT A WRITTEN LETTER TO THE STRUCTURAL ENGINEER STATING THE FOLLOWING:
A. THE PROPOSER AGREES TO PAY THE ENGINEER FOR THE COST OF EVALUATING THE PROPOSED CHANGE.
B. THE PROPOSER AGREES TO PAY THE ENGINEER FOR THE COST OF CHANGING THE DRAWINGS AND DETAILS SHOULD THIS BE REQUIRED BY THE BUILDING DEPARTMENT OR SHOULD THE ENGINEER DECIDE IT IS NECESSARY.
C. THE NET SAVING SHALL BE PASSED ON TO THE OWNER SHOULD THE SUBSTITUTION BE APPROVED.

SPECIAL INSPECTIONS

- IN ADDITION TO STANDARD INSPECTIONS BY THE BUILDING OFFICIAL PER 2018 IBC SECTION 110, THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION, FOR THE TYPES OF WORK LISTED IN THIS SECTION.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR AT LEAST 24 HOURS' NOTICE PRIOR TO PERFORMING ANY WORK REQUIRING SPECIAL INSPECTION.
- THE SPECIAL INSPECTOR SHALL INSPECT THE WORK ASSIGNED FOR THE CONFORMANCE WITH THE APPROVED CONTRACT DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER TO WORK, REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THEIR PROVIDED PLANS AND SPECIFICATIONS AND THE APPLICABLE CODE PROVISIONS.
- INSPECTORS SHALL INSPECT FROM AN APPROVED SET OF CONTRACT DRAWINGS. SHOP DRAWINGS SHALL NOT BE USED IN LIEU OF THE APPROVED CONTRACT DRAWINGS FOR INSPECTION PURPOSES.
- TYPES OF WORK TO BE INSPECTED BY THE SPECIAL INSPECTOR ARE AS FOLLOWS:
A. EPOXY ANCHORS IN CONCRETE - INSPECTION OF EPOXY ANCHORS IN CONCRETE SHALL BE PERIODIC UNLESS NOTED OTHERWISE. INSTALLATIONS SHALL BE PERFORMED BY A QUALIFIED PERSON TRAINED BY MANUFACTURER TO INSTALL ADHESIVE ANCHORS, AND THEY SHALL FOLLOW THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII). AT THE TIME OF INSTALLATION, THE CONCRETE SHALL HAVE ACHIEVED A MINIMUM AGE OF 28 DAYS, BE DRY, AND BE BETWEEN 50 DEGREES F AND 104 DEGREES F. THE HOLE SHALL BE DRILLED WITH A HAMMER DRILL TO THE DIMENSIONS LISTED IN THE MPII AND SHALL BE CLEANED USING THE BLOW-BRUSH-BLOW TECHNIQUE REQUIRED IN THE MPII. WHERE ANCHORS ARE INSTALLED INTO LIGHTWEIGHT CONCRETE, IT IS ASSUMED THAT THE CONCRETE IS CLASSIFIED AS ALL-LIGHTWEIGHT CONCRETE, AS DEFINED IN A CI 318. ANY ADHESIVE ANCHORS INSTALLED HORIZONTALLY (EXCEPT FOR ANCHORS IN A SLAB ON GRADE) OR UPWARDLY INCLINED, SHALL BE INSTALLED BY PERSONNEL WITH THE ANCHORS/ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT AND SHALL BE INSTALLED WITH CONTINUOUS SPECIAL INSPECTION.
B. EPOXY ANCHORS IN MASONRY - EPOXY ANCHORS IN MASONRY SHALL BE INSTALLED WITH SPECIAL INSPECTION PERIOD. INSTALLATIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL TRAINED BY MANUFACTURER TO INSTALL ADHESIVE ANCHORS AND THEY SHALL FOLLOW THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII).
C. SCREW ANCHORS AND EXPANSION ANCHORS CONCRETE OR MASONRY - SCREW ANCHORS IN CONCRETE OR MASONRY SHALL BE INSTALLED WITH SPECIAL INSPECTION. ANCHORS IN CONCRETE MAY BE PERIODIC. INSTALLATIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL TRAINED BY MANUFACTURER TO INSTALL SCREW/EXPANSION ANCHORS AND THEY SHALL FOLLOW THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS.
- CERTIFICATE OF APPROVAL REGARDING MATERIALS AND INSPECTION OF PREFABRICATED ITEMS SHALL BE PROVIDED IN ACCORDANCE WITH 2018 IBC SECTION 1704.



MASONRY NOTES

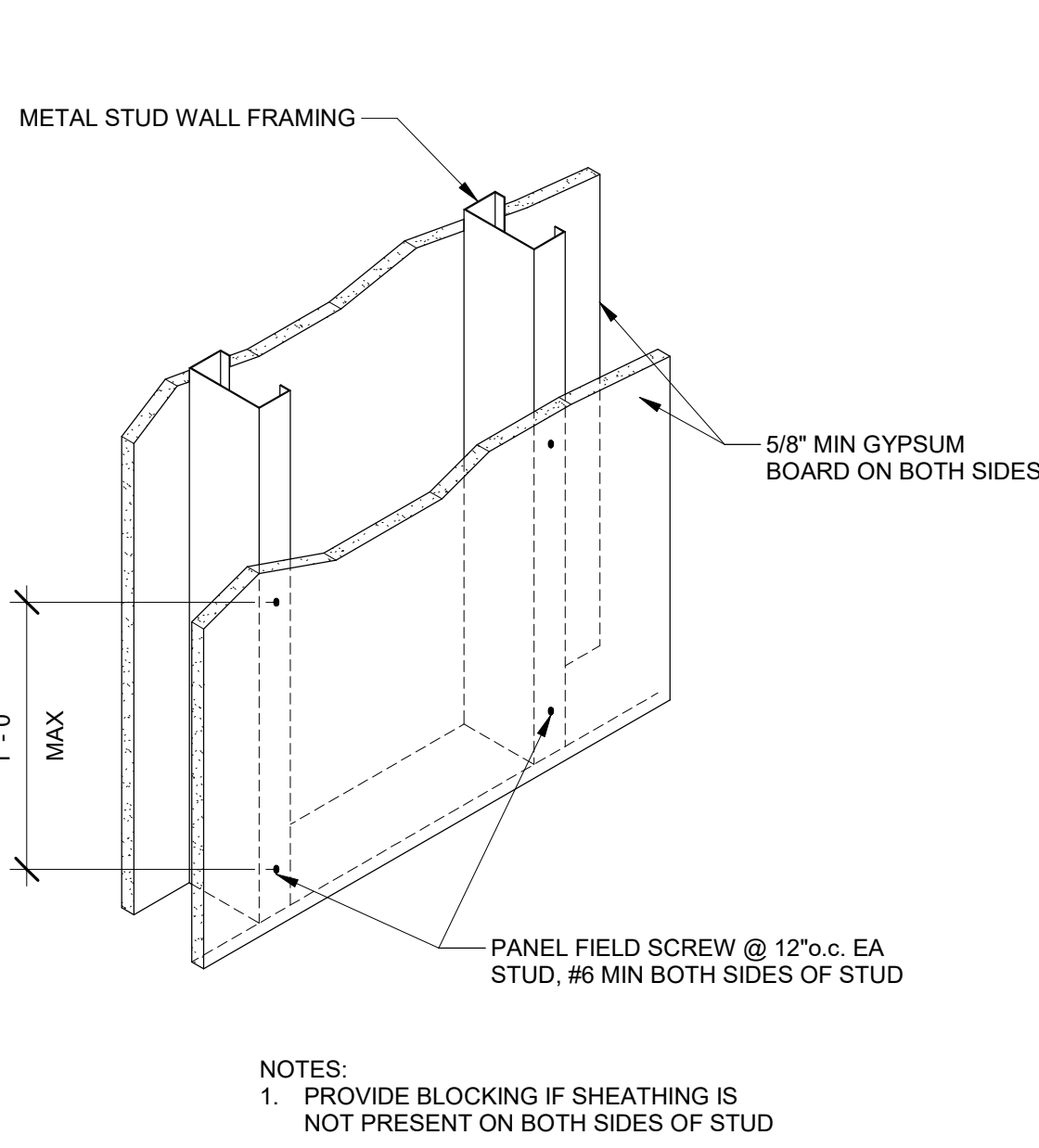
- STRENGTH: BLOCK SHALL PERFORM TO STANDARD SPECIFICATION FOR HOLLOW CONCRETE MASONRY UNITS ASTM C90 MINIMUM COMPRESSIVE STRENGTH 2,000PSI, F'FM=1500 PSI. ALL MORTAR SHALL BE TYPE S. ALL GROUT SHALL BE 2000 PSI MIN. AT 28 DAY STRENGTH. GROUT SHALL BE PLACED AT MAXIMUM 4 FT. LIFTS UNLESS NOTED OTHERWISE.
- MASONRY UNIT TYPE: MASONRY BLOCK JOINTS SHALL HAVE AT LEAST ONE ADJACENT OPEN CELL FACE. BLOCKS SHALL HAVE AT LEAST ONE OPEN END.
- REINFORCEMENT: ALL MASONRY REBAR SHOULD BE A MINIMUM GRADE 60.
- MORTAR: CEMENT MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED AND COMPOSED BY VOLUME OF ONE PART PORTLAND CEMENT, THREE PARTS SAND, AND A 1/4 PART LIME PUTTY UNLESS OTHERWISE NOTED OR SPECIFIED.
- GROUT: GROUT SHALL BE FRESHLY PREPARED, UNIFORMLY MIXED, AND COMPOSED OF THE FOLLOWING RATION BY VOLUME: ONE PART PORTLAND CEMENT, TWO PARTS PEA GRAVEL, THREE PARTS SAND. SUFFICIENT WATER SHOULD BE ADDED TO PRODUCE A CONSISTENCY FOR POURING WITHOUT SEGREGATION OF GROUT CONSTITUENTS. WHERE APPROVED BY THE ENGINEER, GROUT MIX SHALL BE DESIGNED BY THE OWNER'S TESTING LABORATORY.
- GROUTING: ALL CELLS ARE TO BE SOLID GROUTED. VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND NOT EXCEEDING 192 BAR DIAMETERS DURING GROUTING.
- CONSOLIDATION: CONSOLIDATION SHALL BE BY MEANS OF A VIBRATOR. NO PUDDLING OR TAMING IS ALLOWED.
- INSPECTION: SEE "INSPECTION NOTES" ON THE DRAWING AS WELL AS THE SPECIAL INSPECTION SHEET.
- REINFORCING: ALL JAMBS, HEADS, AND SILLS HAVE TWO #5 BARS MINIMUM.

TEST LOAD (EXPANSION ANCHOR)		
BOLT DIAMETER (N)	MINIMUM EMBEDMENT (N)	INSTALLATION TORQUE (FT-LBS)
3/8"	25/16"	25
1/2"	23/8"	40
5/8"	39/16"	60
3/4"	45/16"	110

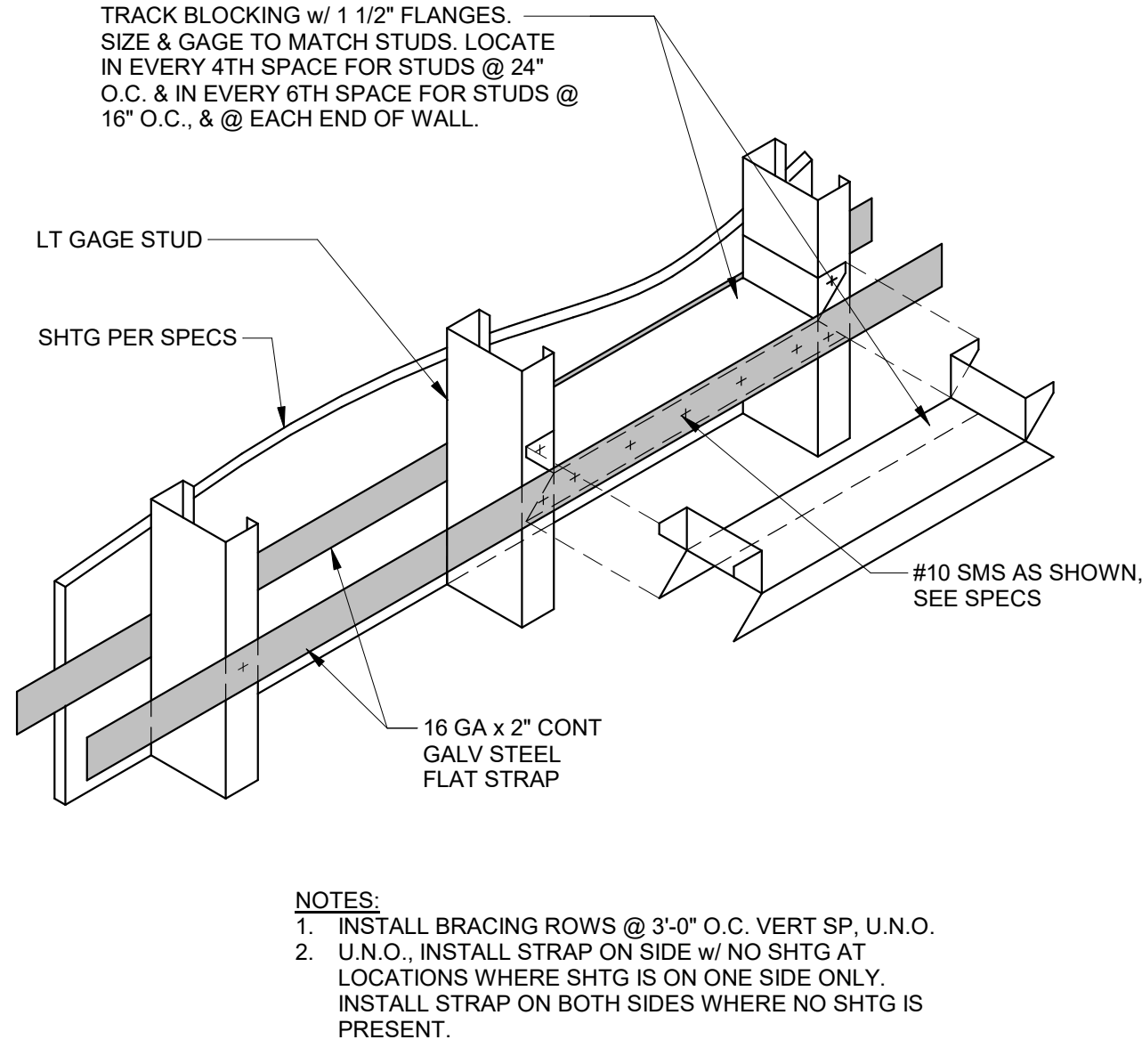
NOTE: MINIMUM EMBEDMENT CALLED OUT IS THE EQUIVALENT NOMINAL EMBEDMENT FOR HILTI K372 MECHANICAL ANCHORS.

ABBREVIATIONS

@	AT	L	ANGLE
AB	ANCHOR BOLT	LAT	LATERAL
ACI	AMERICAN CONCRETE INSTITUTE	LBS / #	POUNDS
ADD'L	ADDITIONAL	LF	LINEAR FEET
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LL	LIVE LOAD
AFF	ABOVE FINISH FLOOR	LLH	LONG LEG HORIZONTAL
ASCC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LONG	LONGITUDINAL
APA	AMERICAN PLYWOOD...		
APPROX	APPROXIMATE		
ARCH	ARCHITECTURAL		
ASTM	AMERICAN SOCIETY FOR TESTING & WELDING	MAS	MASONRY
ATR	ALL-THREAD ROD	MAT'L	MATERIAL
AWS	AMERICAN WELDING SOCIETY	MAX	MAXIMUM
B/	BOTTOM OF	MB	MACHINE BOLT
BE	BOUNDARY ELEMENT	MECH	MECHANICAL
BLW	BELOW	MFR / MANUF	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
BL'KG	BLOCKING	MISC	MISCELLANEOUS
BM	BEAM	MTL	METAL
BN	BOUNDARY NAIL(ING)		
B.O.	BOTTOM OF (FTG. BEAM, ETC)	(N)	NEW
BRG	BEARING	NA / NA	NOT APPLICABLE
BTM	BOTTOM	NIC	NOT IN CONTRACT
BTWN	BETWEEN	NO. / #	NUMBER
		NOM	NOMINAL
CALC	CALCULATIONS	NS	NEAR SIDE
CANT	CANTILEVERED	NTE	NOT TO EXCEED
CBC	CALIFORNIA BUILDING CODE	NTS	NOT TO SCALE
CF	CUBIC FOOT		
CFS	COLD FORMED STEEL	O/	OVER
CP	COST-IN-PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL /	CENTER LINE	OF / OSF	OUTSIDE FACE
CLR	CLEAR	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	OPT / OPTL	OPTION / OPTIONAL
CONN	CONNECTION	OWWJ	OPEN WEB WOOD JOIST
CONST	CONSTRUCTION		
CONT	CONTINUOUS	PAR	PARALLEL
CONTR	CONTRACTOR	PDA	POWDER DRIVEN ANCHOR
COORD	COORDINATE	PEN	PENETRATION
CTN / CNTR	CENTER	PERF	PERFORATED
CTSK	COUNTERSINK	PJ	PANEL JOINT
		PL	PLATE
d	PENNY (NAILS)	PLB	PARALLAM BEAM
D	DEPTH	PFL	POUNDS PER LINEAR FOOT
DBA	DEFORMED BAR ANCHOR	PLYWD / PLY	PLYWOOD
DBL	DOUBLE	PNL	PANEL
DC	DEMAND CRITICAL WELD	PS	POUR STRIP
DET / DTL	DETAIL	PSF	POUNDS PER SQUARE FOOT
DF	DOUGLAS FIR	PST	POUNDS PER SQUARE INCH
DFL	DOUGLAS FIR/LARCH	PSL	PARALLEL STRAND LUMBER
DIA / Ø	DIAMETER	PT	PRESSURE TREATED
DIAPHR	DIAPHRAGM		
DIM	DIMENSION	QTY	QUANTITY
DL	DEAD LOAD		
DWG	DRAWING	REF	REFERENCE
EA	EACH	REFR	REINFORCING
EF	EACH FACE	REQ / REQ'D	REQUIRED
EIFS	EXTERIOR INSULATED FINISH SYSTEM	RET	RETAINING
ELECT	ELECTRICAL	REV	REVISION
ELEV	ELEVATION	RND	ROUND
EN	EDGE NAIL(ING)	SCHED	SCHEDULE
ENGR	ENGINEER	SF	SQUARE FEET
EQ	EQUAL	SFRS	SEISMIC FORCE RESISTING...
EQUIP	EQUIPMENT	SHT	SHEET
ES	EACH SIDE	SHT / SHTG	SHEATHING
EW	EACH WAY	SIM	SIMILAR
EXIST / (E)	EXISTING	SLRS	SEISMIC LOAD RESISTIVE...
EXP JT / EJ	EXPANSION JOINT	SLV	SHORT LEG VERTICAL
EXT	EXTERIOR	SMS	SHEET METAL SCREW
		SN	SILL NAIL
F/	FACE OF	SG	SLAB ON GRADE
FB	FLAT BAR	SP	SPACE (DVS)
FND	FOUNDATION	SPEC(S)	SPECIFICATION
FIN	FINISHED)	SS	SQUARE
FLR	FLOOR	SQ	STRUCTURAL SELECT
FN	FIELD NAIL	S.S.	STAINLESS STEEL
F.O.	FACE OF (WALL, CONC. STEEL, ETC)	STAGG	STAGGERED
FRM/G	FRAMING	STD	STANDARD
FS	FACE SIDE	STIFF	STIFFENER
FT	FEET / FEET	STRL	STRUCTURAL
FTG	FOOTING	SY	SQUARE YARD
GA / ga	GAUGE	T&B	TOP & BOTTOM
GALV	GALVANIZED	T&G	TONGUE & GROOVE
GL	GLULAM	T/	TOP OF
GLB	GLULAM BEAM	THK	THICK / THICKNESS
		THRD	THREADED
HCM	HOLLOW CLAY MASONRY	TL	TOTAL LOAD
HDR	HEADER	TN	TOE NAIL
HORIZ	HORIZONTAL	T.O.	TOP OF (CONC. STEEL ETC)
HSS	HOLLOW STRUCTURAL SECTION	TRANS / TRANSV	TRANSVERSE
HT	HEIGHT	TYP	TUBE STEEL
HVAC	HEATING, VENTILATION, & AIR CONDITIONING	TYP	TYPICAL
HWS	HEADED WELD STUD	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE		
I.D.	INSIDE DIAMETER	VERT	VERTICAL
I.F. / ISF	INSIDE FACE	VIF	VERIFY IN FIELD
INFO	INFORMATION		
INSP	INSPECTION / INSPECTOR		
INT	INTERIOR	W/	WITH
INTER	INTERMEDIATE	W/O	WITHOUT
		WD	WOOD
JST	JOIST	WF	WIDE FLANGE BEAM
		WS	WELD STUD
K	KIPS	WS	WOOD SCREWS
KSF	KIPS PER SQUARE FOOT	WP	WORK POINT



10 TYPICAL METAL STUD WALL
1 1/2" = 1'-0"



19 STUD WALL LATERAL BRACING LOCATIONS
1 1/2" = 1'-0"

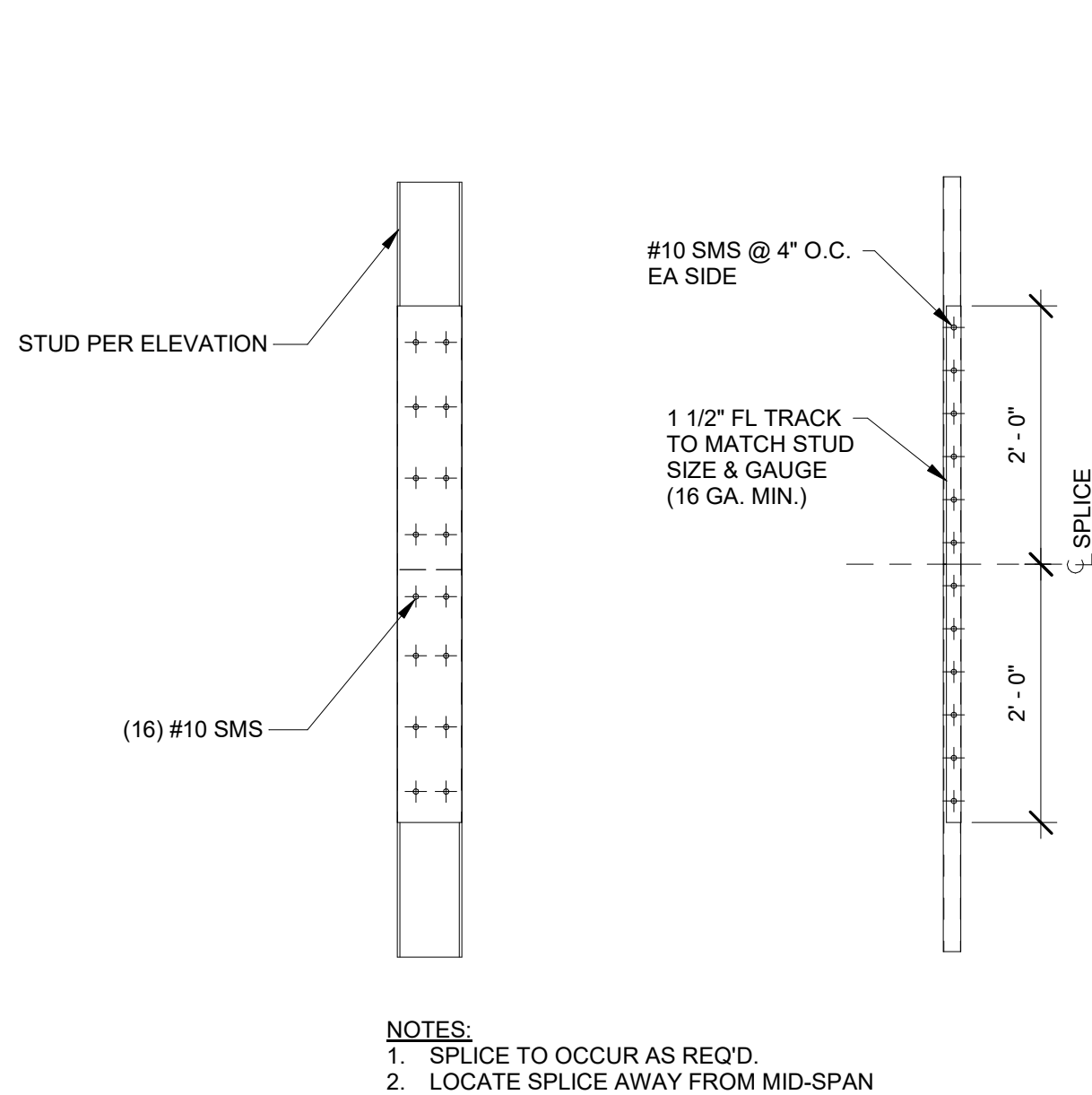


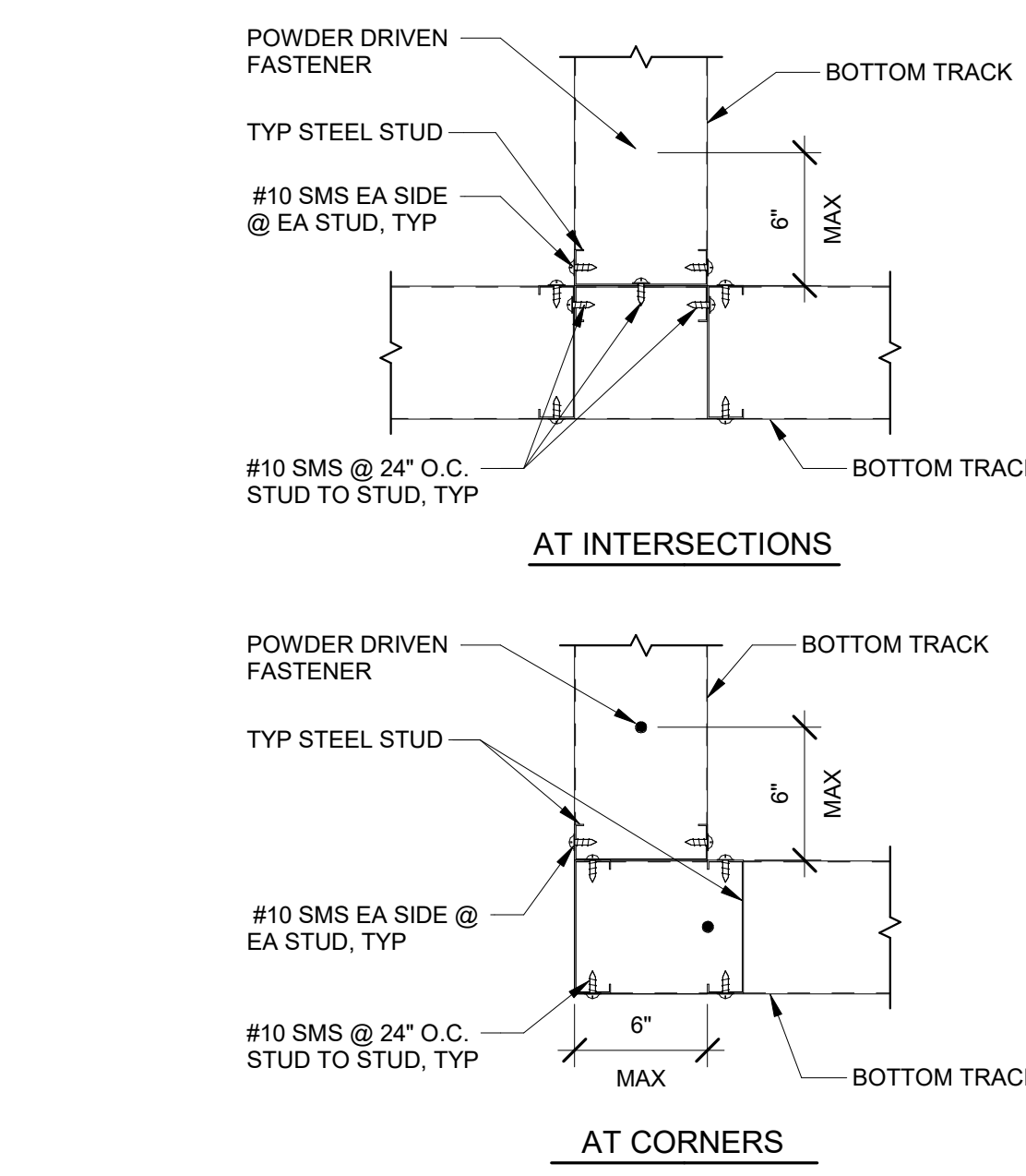
Diagram illustrating two methods of connecting a Bridge Channel to a Stud Web using a Clip Angle.

Top Method: WELDED CONNECTION w/ ANGLE

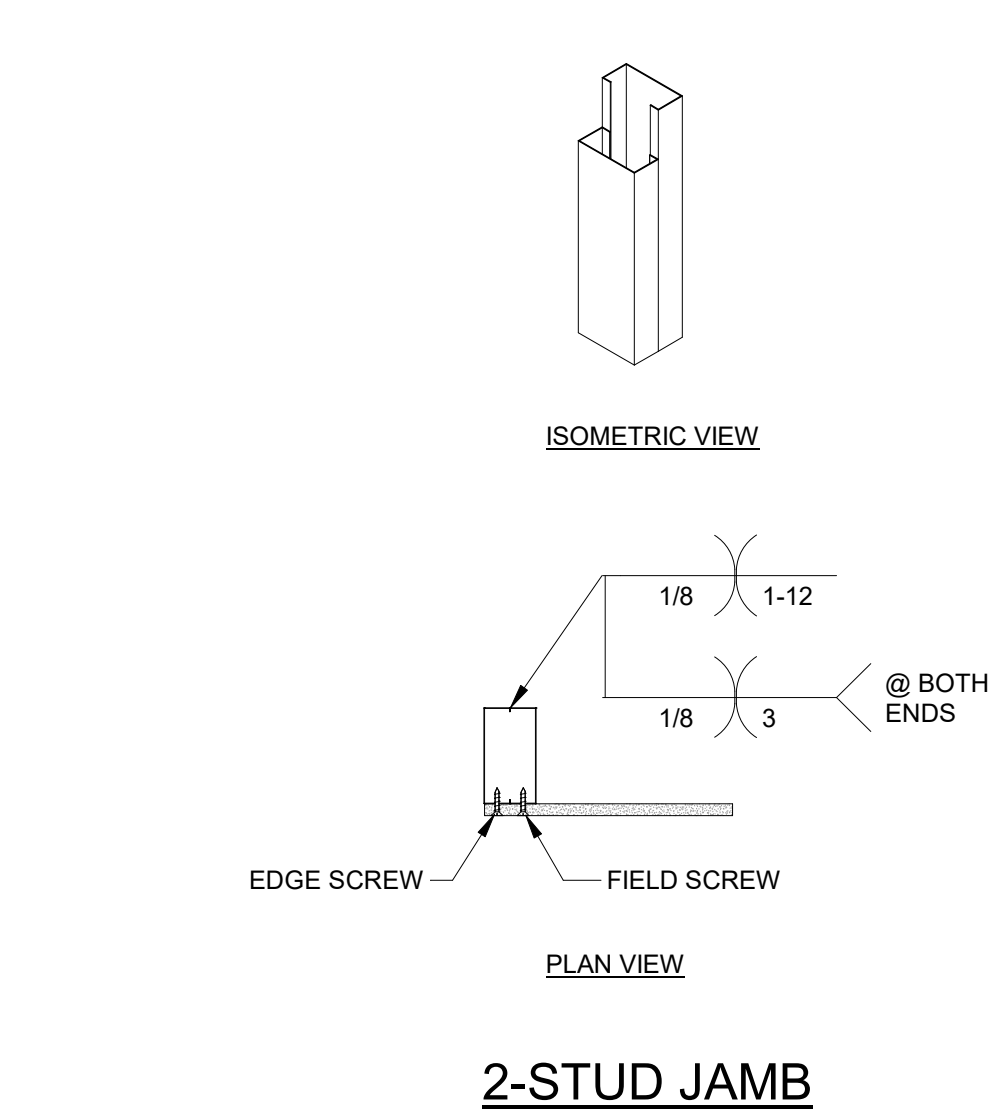
- Bridge Channel
- CLIP ANGLE 2x2 (STUD WEB LESS 1/2") MATCH STUD GAUGE
- 1/8" (weld thickness)
- 1" (channel depth)

Bottom Method: SCREW CONNECTION w/ ANGLE

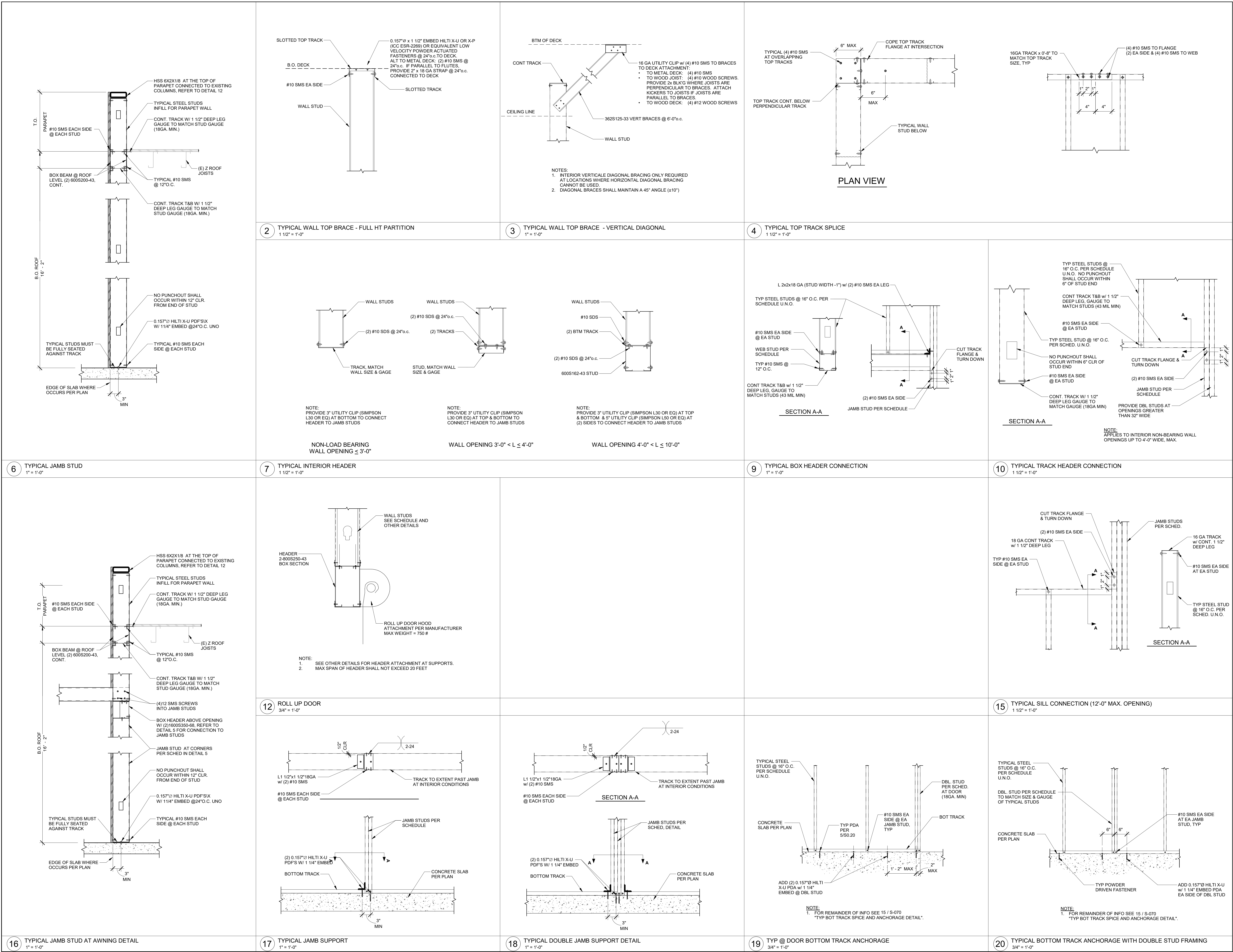
- Bridge Channel
- CLIP ANGLE 2x2 (STUD WEB LESS 1/2") MATCH STUD GAUGE
- (2) #10 SHEET METAL SCREWS CHANNEL TO CLIP ANGLE



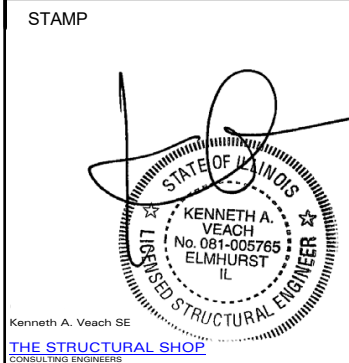
25 TYPICAL METAL STUD BRIDGING
1" = 1'-0"



20 TYP BUILT-UP JAMB
1" = 1'-0"



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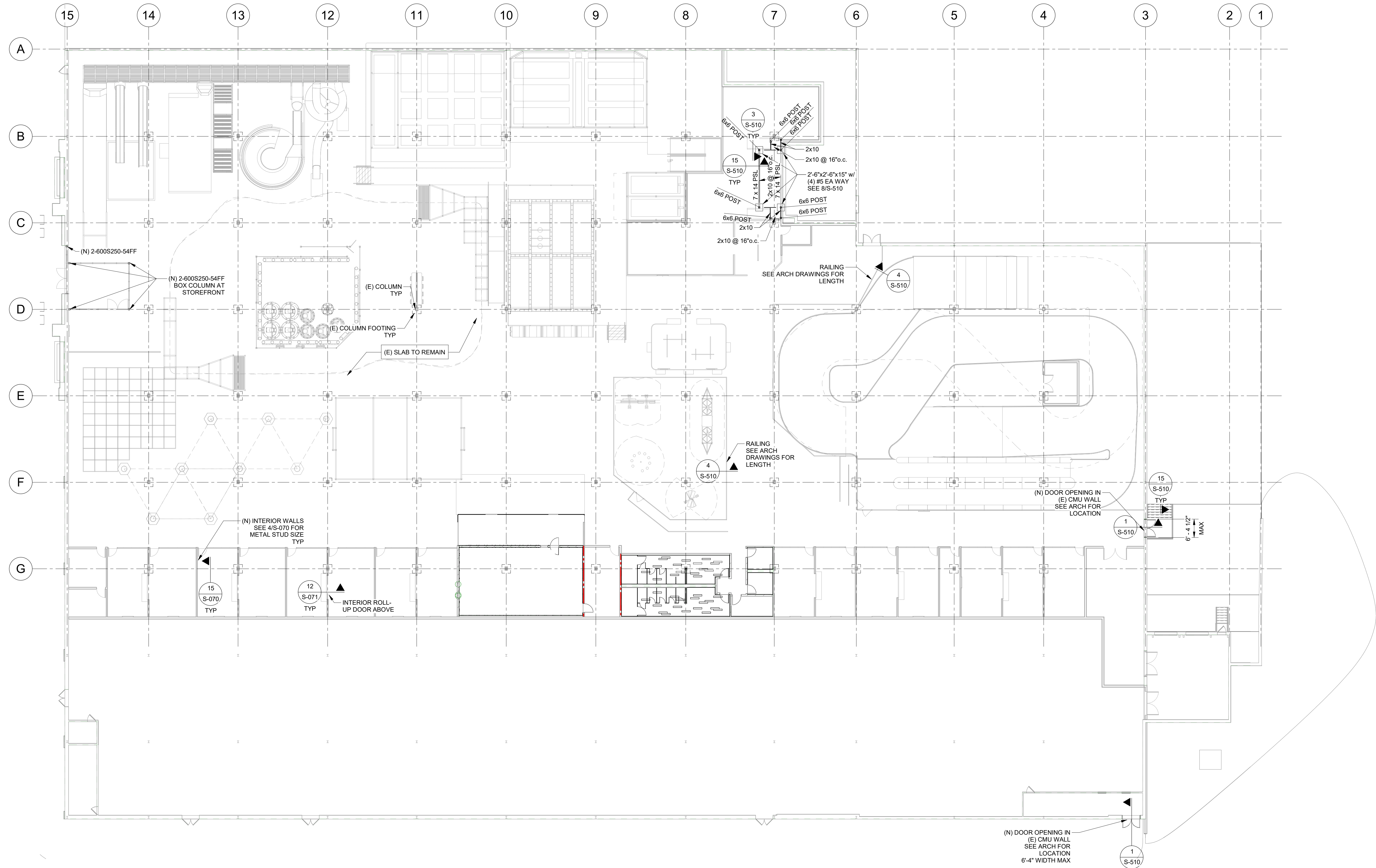
REVISION SCHEDULE		
Delta	Issued by	Issue Date

TYPICAL LIGHT GAGE STEEL
DETAILS

URBAN AIR ADVENTURE PARK
URBAN AIR ARLINGTON HEIGHTS
30 W RAND RD, ARLINGTON HEIGHTS, IL 60004

DATE	2024-10-30
SCALE	As Indicated
CHECKED BY:	AC
DRAWN BY:	NN
PROJECT NO.:	24080
SHEET	

S-071



EXISTING CONDITIONS
DRAWINGS HAVE BEEN PREPARED BASED ON
AVAILABLE KNOWLEDGE OF EXISTING
CONDITIONS. IF, DURING DEMOLITION,
EXCAVATION OR CONSTRUCTION, ACTUAL
CONDITIONS ARE DISCOVERED TO DIFFER FROM
THOSE INDICATED ON DRAWINGS, THE E.O.R.
SHALL BE NOTIFIED.

VERIFY IN FIELD NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS
AND ASSUMPTIONS SHOWN ON THESE PLANS.
NOTIFY SEOR IF FIELD CONDITIONS ARE
DIFFERENT.

1 FOUNDATION PLAN
1/16" = 1'-0"

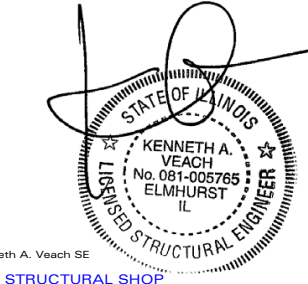


- FOUNDATION NOTES
1. FOR GENERAL STRUCTURAL NOTES SEE S-001
 2. FOR TYPICAL STRUCTURAL DETAILS SEE S-070 AND S-071
 3. DRAWINGS HAVE PREPARED BASED ON AVAILABLE KNOWLEDGE
OF EXISTING CONDITIONS. IF DURING DEMOLITIONS,
EXCAVATION, OR CONSTRUCTIONS, ACTUAL CONDITIONS ARE
DISCOVERED TO DIFFER FROM THOSE INDICATED ON
DRAWINGS, ENGINEERS SHALL BE NOTIFIED.
WOOD STRUCTURAL MEMEBERS WHICH ARE EXPOSED TO
WEATHER SHALL BE PRESSURE TREATED.
 - 4.



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STAMP



CLIENT



REVISION SCHEDULE

Delta	Issued by	Issue Date

FOUNDATION PLAN

URBAN AIR ADVENTURE PARK
URBAN AIR ARLINGTON HEIGHTS
30 W RAND RD, ARLINGTON HEIGHTS, IL 60004

DATE	2024-10-30
SCALE	1/16" = 1'-0"
CHECKED BY:	Checker
DRAWN BY:	Author
PROJECT NO.:	24080
SHEET	

S-101



EXISTING CONDITIONS
DRAWINGS HAVE BEEN PREPARED BASED ON
AVAILABLE KNOWLEDGE OF EXISTING
CONDITIONS. IF, DURING DEMOLITION,
EXCAVATION OR CONSTRUCTION, ACTUAL
CONDITIONS ARE DISCOVERED TO DIFFER FROM
THOSE INDICATED ON DRAWINGS, THE E.O.R.
SHALL BE NOTIFIED.

VERIFY IN FIELD NOTES:

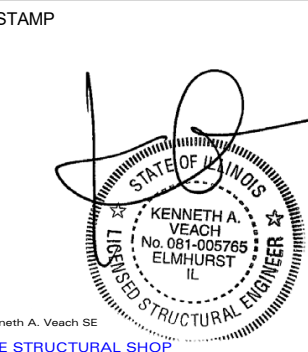
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS
AND ASSUMPTIONS SHOWN ON THESE PLANS.
NOTIFY SEOR IF FIELD CONDITIONS ARE
DIFFERENT.

ROOF FRAMING NOTES

1. FOR GENERAL STRUCTURAL NOTES SEE S-001.
2. FOR TYPICAL STRUCTURAL DETAILS SEE S-070 AND S-071.
3. DRAWINGS HAVE PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF DURING DEMOLITIONS, EXCAVATION, OR
CONSTRUCTIONS, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON DRAWINGS, ENGINEERS SHALL BE NOTIFIED.
4. STRUCTURAL WOOD MEMEBERS WHICH ARE EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
5. SEE ARCHITECTURAL DRAWINGS FOR CONTROL ELEVATIONS.
6. COORDINATE PERIMETER CONDITIONS WITH ARCHITECTURAL.
7. SEE DETAILS FOR ADDITIONAL AXIAL LOADS REQ'D FOR GIRDERS, JOISTS, AND JOIST SEATS.
8. CONTRACTOR TO COORDINATE AND CONFIRM MECH UNIT SIZE, LOCATION, & WEIGHTS. COORDINATE AND SUPPLY ALL REQUIRED LOADING TO
THE JOIST SUPPLIER.
9. CONTRACTOR TO COORDINATE W/ JOIST SUPPLIER ALL PIPING 4"Ø AND LARGER



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REVISION SCHEDULE

Delta	Issued by	Issue Date

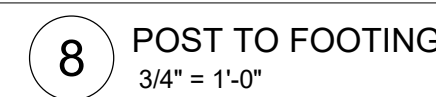
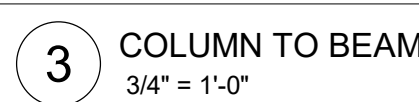
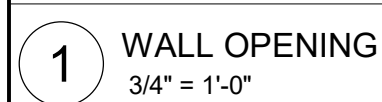
ROOF FRAMING PLAN

URBAN AIR ADVENTURE PARK
URBAN AIR ARLINGTON HEIGHTS
30 W RAND RD, ARLINGTON HEIGHTS, IL 60004

DATE	2024-10-30
SCALE	1/16" = 1'-0"
CHECKED BY:	Checker
DRAWN BY:	Author
PROJECT NO.:	24080
SHEET	

S-103

1 ROOF FRAMING PLAN
1/16" = 1'-0"



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Demolition Floor Plan

D101

Notes - Demolition

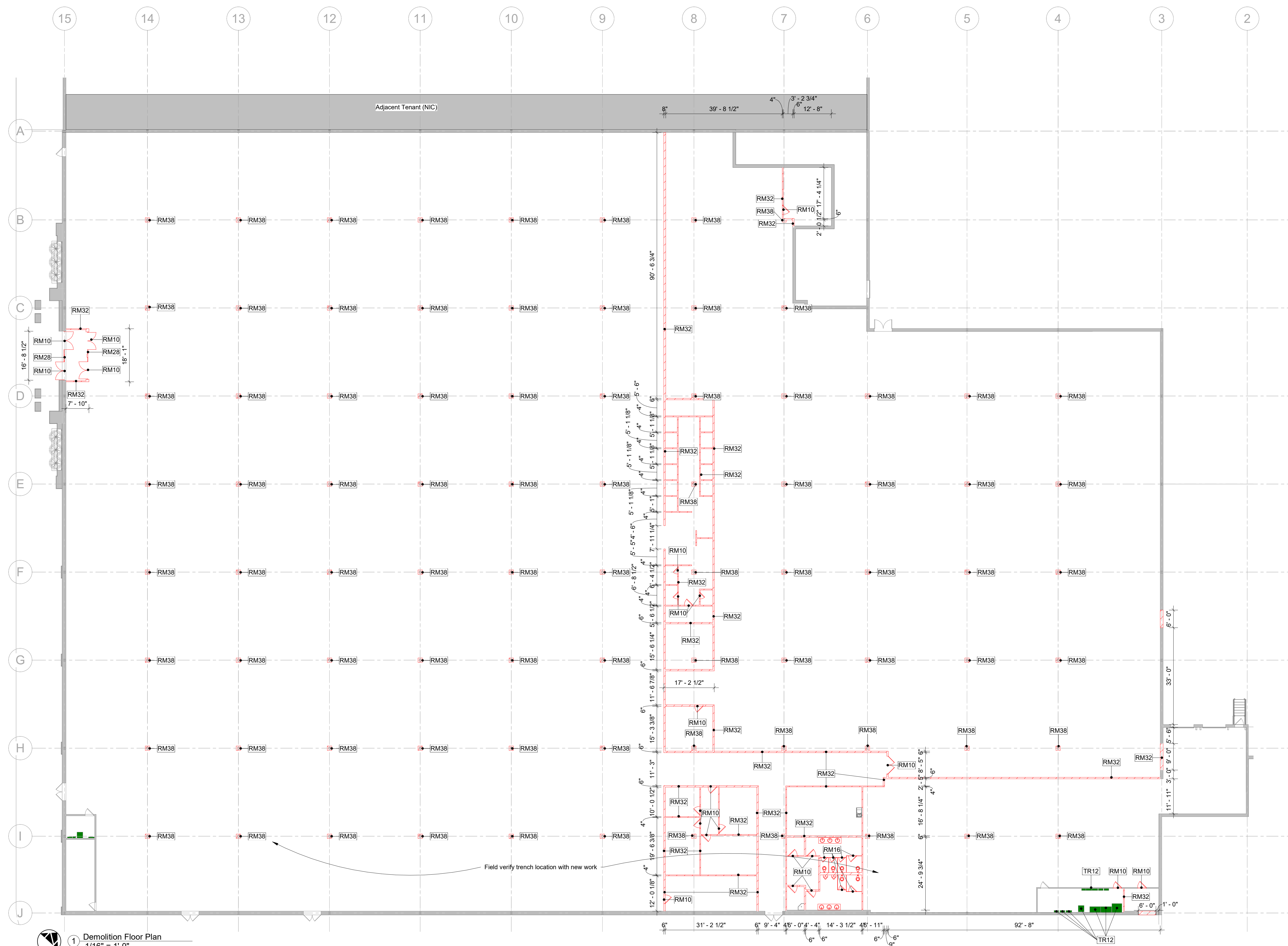
- 1 Refer to structural sheets for complete demolition scope.
- 2 Existing conditions shown are based on available documents and field observation. Notify the Architect and Construction Manager immediately if anomalies between these documents and actual conditions are discovered.
- 3 Coordinate with new work plans for design intent and final construction dimensions.
- 4 Dimensions on demolition sheets are from the face of exterior finish, face of interior gypsum board and face of CMU/ concrete rough opening unless noted otherwise.
- 5 Replace or repair any "to remain" finishes which are damaged during demolition (i.e. - ceilings, doors, etc.)
- 6 All debris and demolition refuse to be safely removed from the site and legally disposed.
- 7 X-ray prior to saw cutting the concrete slab for trench work at plumbing and electrical locations. Refer to the MEP sheets for full extent of trench work and verify all slab conditions in the field.

Legend - Demolition

- | | |
|---|-----------------------------|
|  | Existing to Remain |
|  | Demolition |
|  | Keynote Tag |
| | Scope of Work Boundary Line |
|  | Main Sprinkler Pipes |

Keynotes

RM10	Remove Door and Frame
RM16	Remove Toilet Partition
RM28	Remove Storefront System
RM32	Remove Wall
RM38	Remove Walls Around Column
TR12	Equipment to remain



 1 Demolition Floor Plan
1/16" = 1'-0"

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tpiazza@foxfeildtld.com

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Demolition Reflected Ceiling Plan

D121

Notes - Demolition

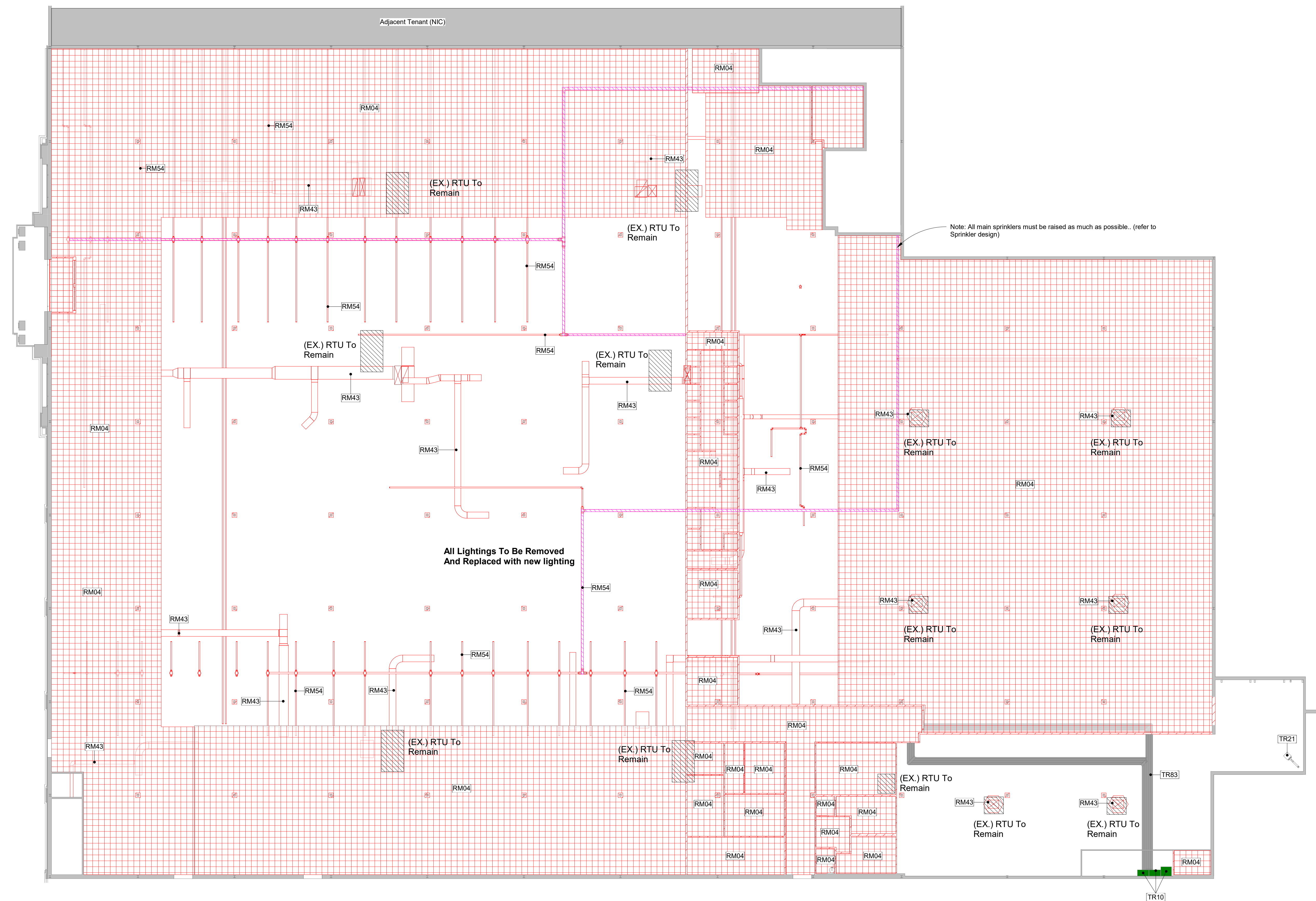
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- 2 Existing conditions shown are based on available documents and field observation. Notify the Architect and Construction Manager immediately if anomalies between these documents and actual conditions are discovered.
- 3 Coordinate with new work plans for design intent and final construction dimensions.
- 4 Dimensions on demolition sheets are from the face of exterior finish, face of interior gypsum board and face of CMU/ concrete pour opening unless noted.
- 5 Replace or repair any "to remain" finishes which are damaged during demolition (i.e. - ceilings, doors, etc.)
- 6 All debris and demolition refuse to be safely removed from the site and legally disposed.
- 7 X-ray prior to saw cutting the concrete slab for trench work at plumbing and electrical locations. Refer to the MEP sheets for full extent of trench work and verify all slab conditions in the field.

Legend - Demolition

	Existing to Remain
	Demolition
	Keynote Tag
	Scope of Work Boundary Line
	Main Sprinkler Pipes

Keynotes

RM04	Remove Ceiling
RM43	Remove Ducts
RM54	Remove Pipe
TR10	Electrical Equipment to remain
TR21	Mechanical Equipment to remain
TR83	Electrical conduit to remain

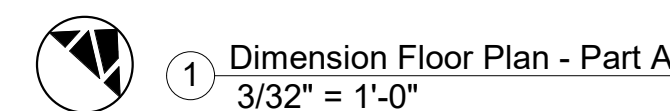


— Note: All main sprinklers must be raised as much as possible.. (refer to Sprinkler design)

**All Lightings To Be Removed
And Replaced with new lighting**



1 Demo Reflected Ceiling Plan
1/16" = 1'-0"



- 1 All dimensions are a face of stud or edge of slab unless noted otherwise. All dimensions labeled "clear" are a face of slab.
- 2 For missing dimensions and annotations refer to enlarged plans. Section locations as noted on callouts.
- 3 For interior finish refer to interior elevations (A4 series) and floor finish plan (A1).
- 4 For door and window types and schedules refer to the (A5 series).
- 5 For furniture and equipment refer to FF floor plan (A601). Provide backing as necessary for wall mounted equipment (A109).
- 6 For details refer to interior elevations and details (A6 series).
- 7 All sealant and caulking shall be applied in a consistent bead and will be free of contractor's control.
- 8 All work shall be the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams can be kept in accurate alignment along both coordinates.
- 9 Laser level and plumb line shall be provided by selected contractor.
- 10 Coordinate with the laser tag vendor. Refer to the laser tag vendor drawing package for additional info. Submit shop drawings with instructions for architect review.
- 11 The contractor must support material and labor for the laser tag vendor. Having the second floor are required to be protected with a 2 hour immunescent paint.

- Note:** Refer to floor plan for partition tag and sheet A109 for partition details.
- | | |
|---|-----------------------------------|
|  | New Wall |
|  | New half height wall |
|  | Existing Wall |
|  | Existing One Hour Fire rated Wall |
|  | Existing Two Hour Fire rated Wall |
|  | New Acoustic Wall |
|  | New One Hour Fire Rated Wall |
|  | New Two Hour Fire Rated Wall |
|  | New Plumbing Chase Wall |

- | | |
|---|---------------------------------|
|  | Partition Type Tag - Sheet A109 |
|  | Door Tag - A5 Series |
|  | Storefront Tag - A5 Series |
|  | Material Tag - A4 Series |
|  | Spot Elevation |
|  | Keynote Tag |

97	Bulk Co2 Tank
----	---------------



Pistil Architects IL LLC

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MEP Engineer:

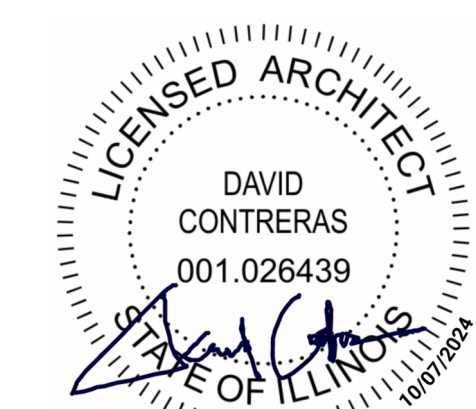
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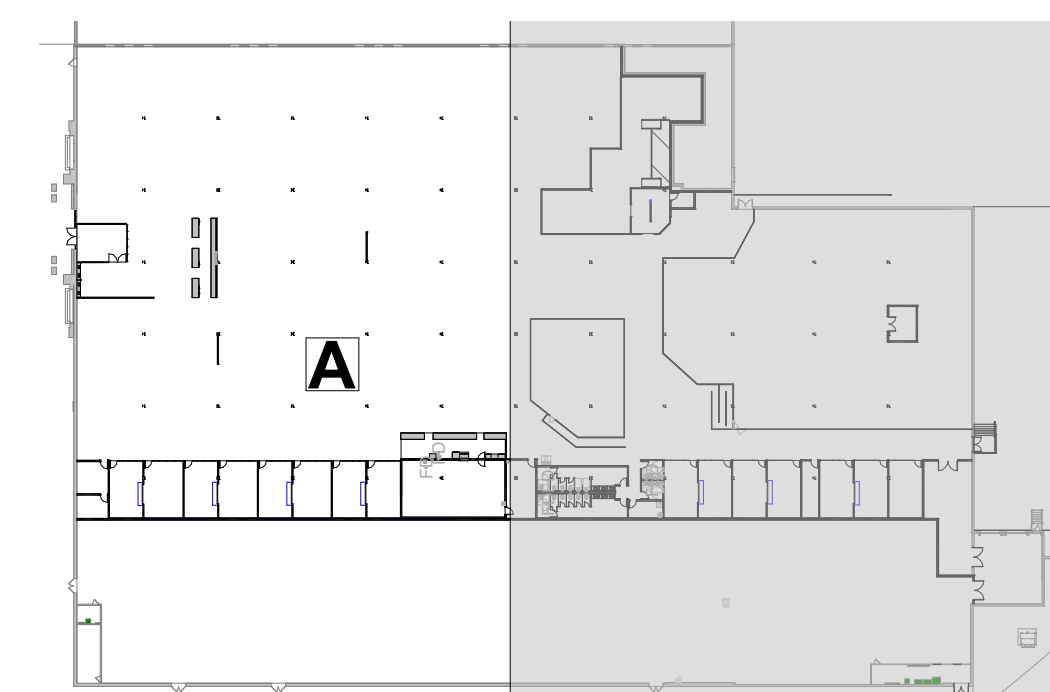
Construction Management:

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1245 Humbracht Cir, Bartlett, IL
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tpiazza@foxfieldltd.com

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Dimension Floor Plan Part A

A101A



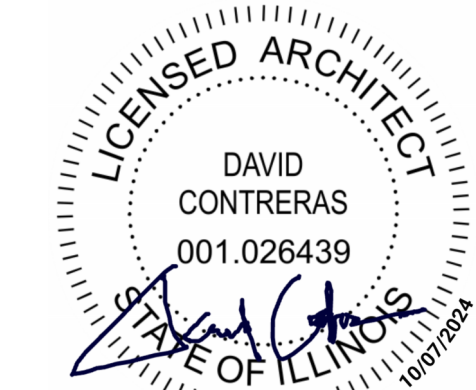
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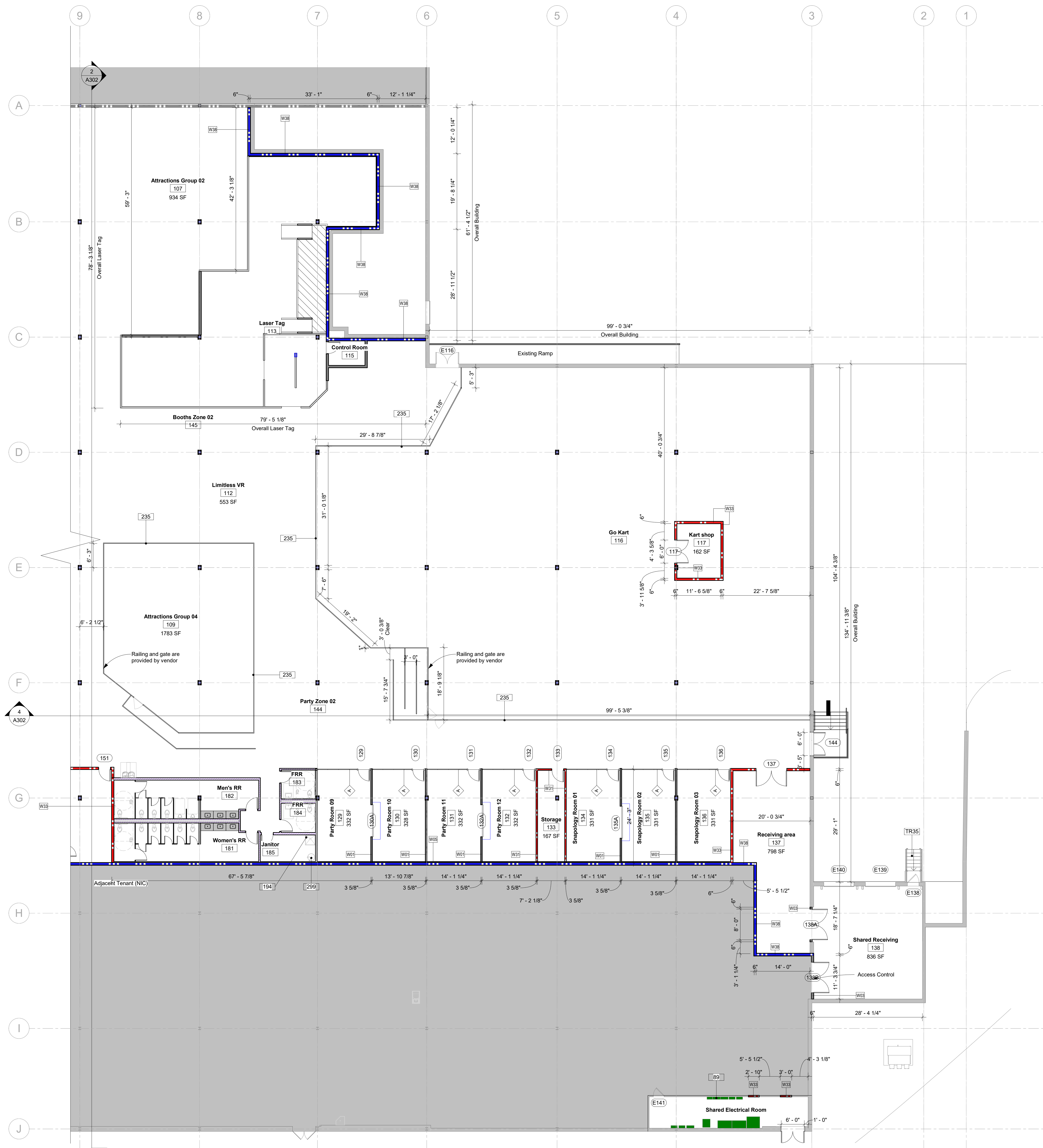
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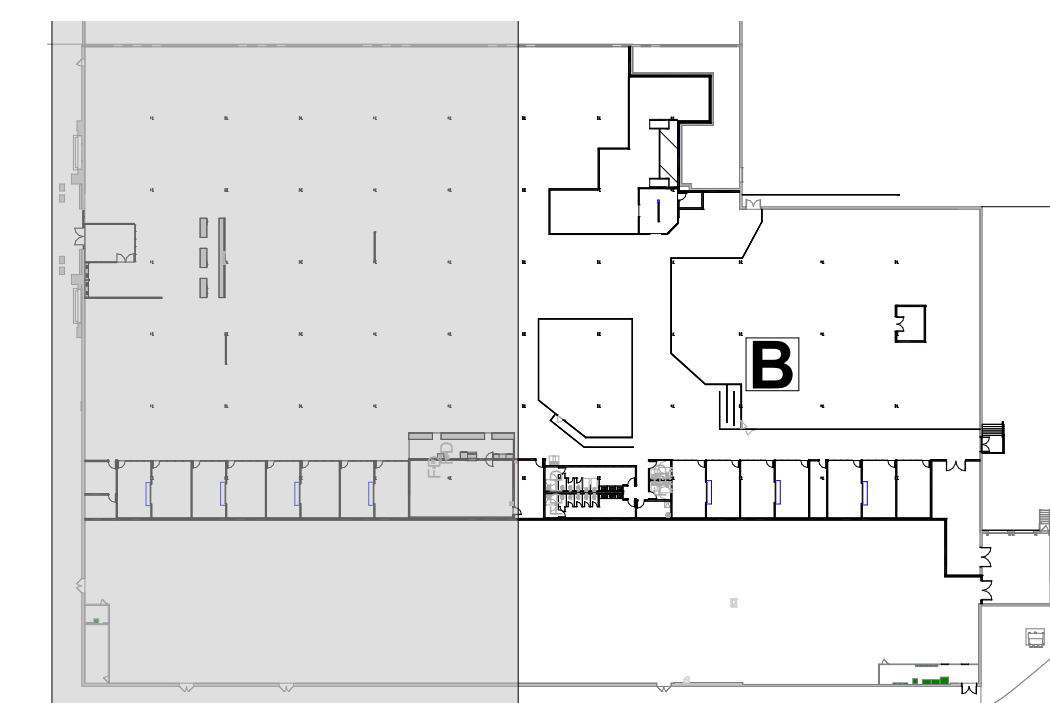
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Dimension Floor Plan Part B

A101B



1 Dimension Floor Plan - Part B
3/32" = 1'-0"

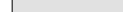


Notes - Floor Plan

- 1 All dimensions are to face of stud or edge of slab unless noted otherwise. All dimensions labeled "clear" are to face of finish.
- 2 For interior dimensions and annotations refer to enlarged plans. Sheet locations as noted on callouts.
- 3 For interior finish refer to interior elevations (A4 series) and floor finish plan (A1).
- 4 For door and window types and schedules refer to the A5 series.
- 5 For furniture and equipment refer to FF for floor plan (A6/01). Provide backing as necessary for wall mounted equipment (A109).
- 6 For door and window refer to schedules and details (A6 series).
- 7 All sealant and caulking shall be applied in a clean consistent bead or will be redone at contractor's cost.
- 8 All work shall be to the best quality. When the work is complete, it shall be kept free from buckles, bubbles, open joints or imperfections. Seams shall be kept in alignment along all coordinates.
- 9 Laser Tag platform and ramp to be design-build by selected contractor. Coordinate with the laser tag vendor for the laser tag vendor drawing package for additional info. Submit shop drawing submissions for architect review.
- 10 All structural support members including columns, beams and joists supporting the stage and the stage floor shall be designed for a four hour minimum fire rating.

Legend - Partitions

Note: Refer to floor plan for partition tag and sheet A109 for partition details

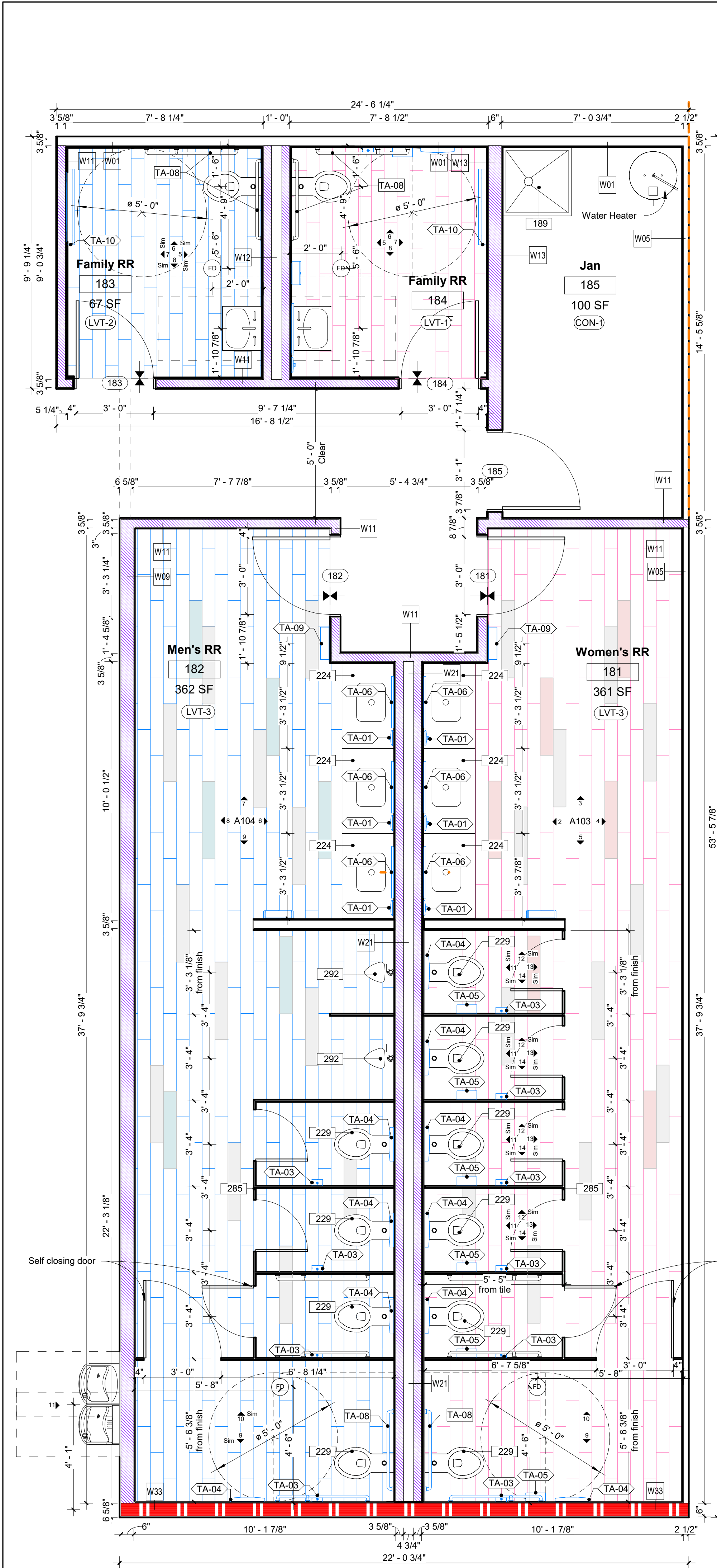
- | | |
|---|-----------------------------------|
|  | New Wall |
|  | New half height wall |
|  | Existing Wall |
|  | Existing One Hour Fire rated Wall |
|  | Existing Two Hour Fire rated Wall |
|  | New Acoustic Wall |
|  | New One Hour Fire Rated Wall |
|  | New Two Hour Fire Rated Wall |
|  | New Plumbing Chase Wall |

Legend - Floor Plan

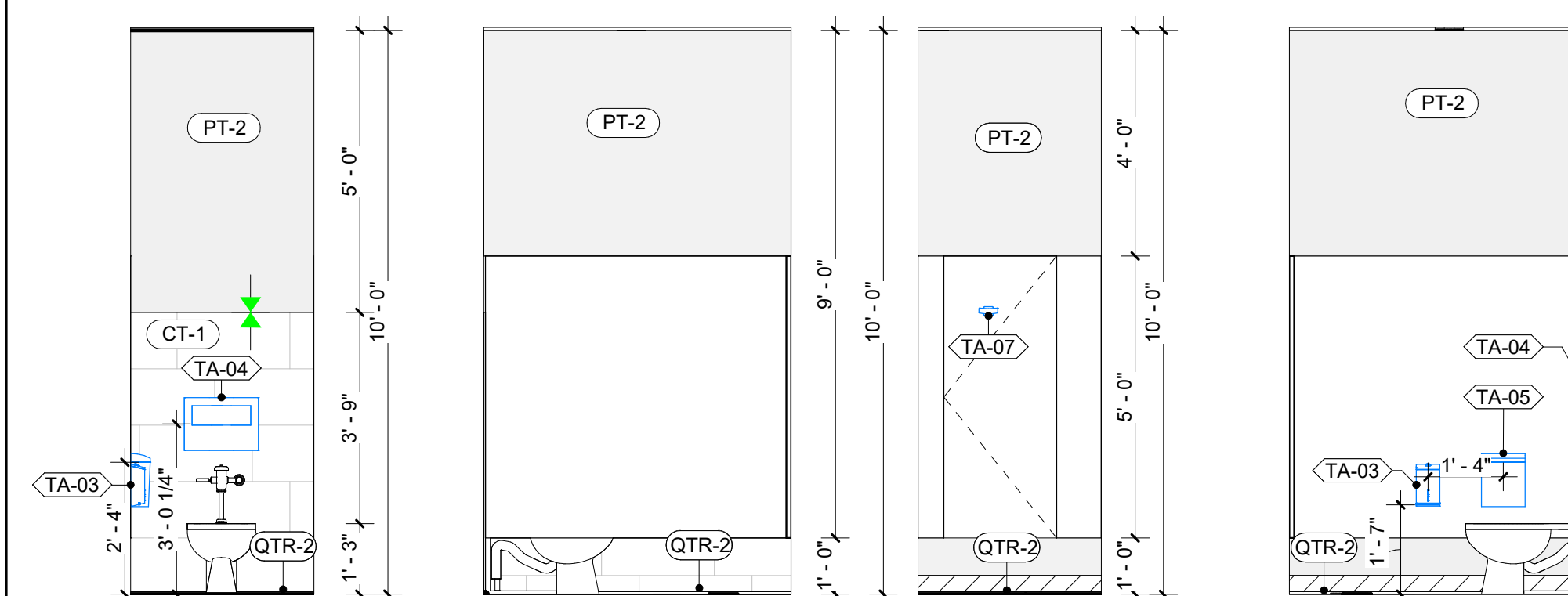
- | | |
|---|---------------------------------|
|  | Partition Type Tag - Sheet A109 |
|  | Door Tag - A5 Series |
|  | Storefront Tag - A5 Series |
|  | Material Tag - A4 Series |
|  | Spot Elevation |
|  | Keynote Tag |

.Keynotes.

89	Electrical Panels (Ref. Electrical)
97	Bulk Co2 Tank
194	Mop Sink
235	Railing
299	Water Heater (Ref. Plumbing)
TR35	Stairs to remain



1 Enlarged Restroom Plans
3/8" = 1'-0"

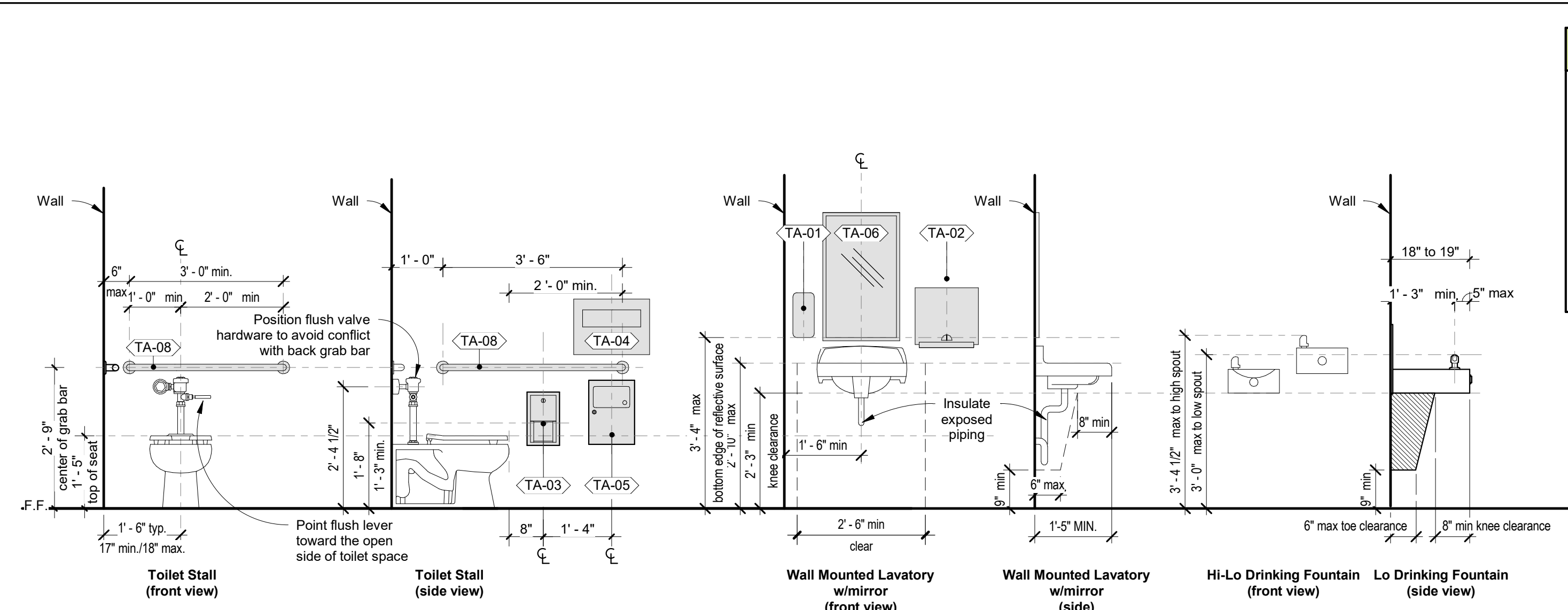


11 Restroom Elevation - TYP
3/8" = 1'-0"

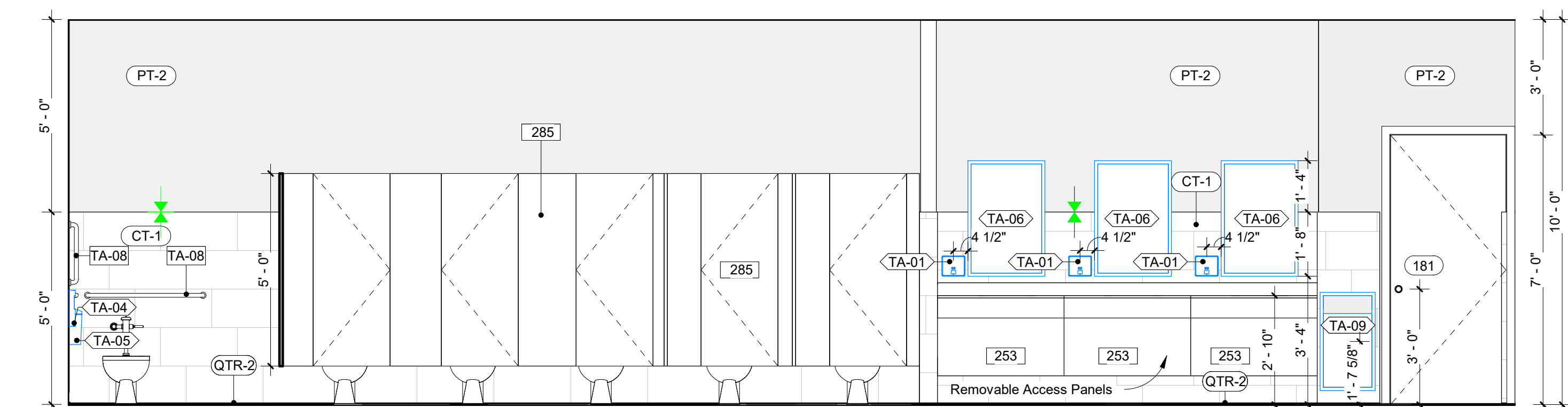
12 Restroom Elevation - TYP
3/8" = 1'-0"

13 Restroom Elevation - TYP
3/8" = 1'-0"

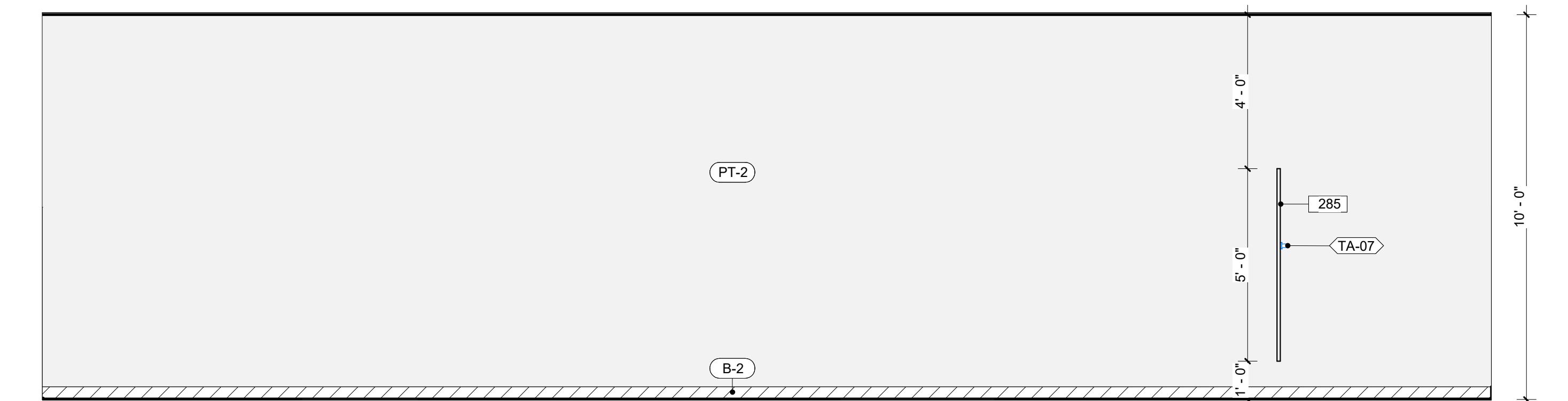
14 Restroom Elevation - TYP
3/8" = 1'-0"



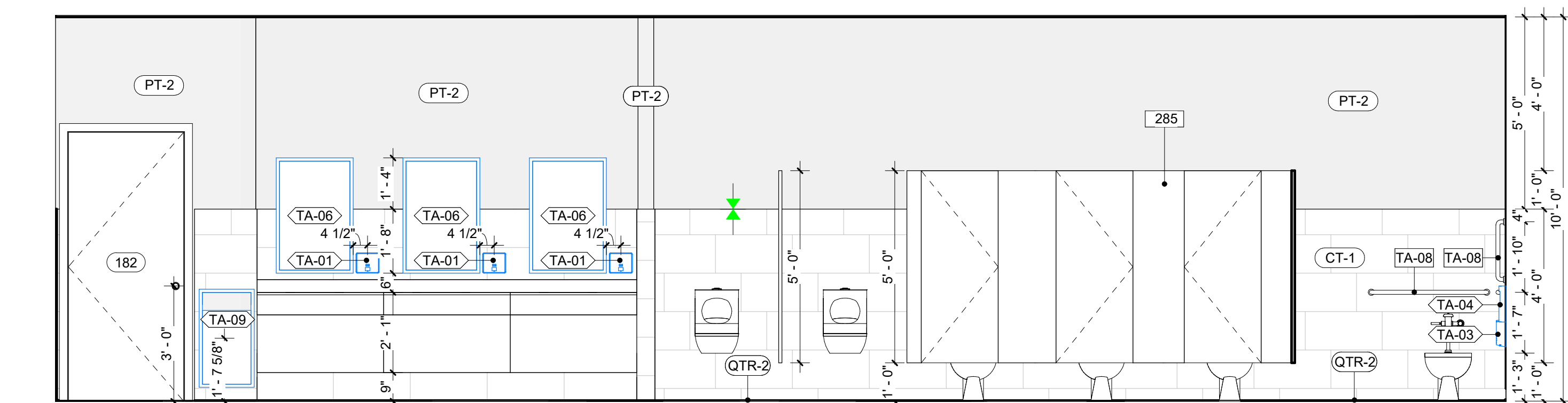
22 RR ADA Standards
1/2" = 1'-0"



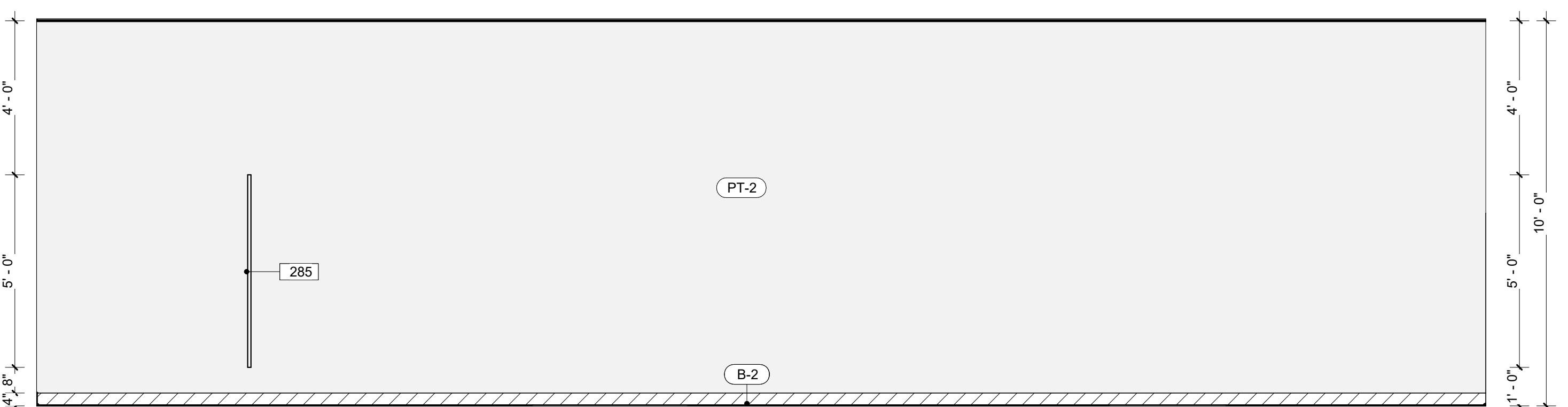
2 Women's Restroom Elevation
3/8" = 1'-0"



4 Women's Restroom Elevation
3/8" = 1'-0"

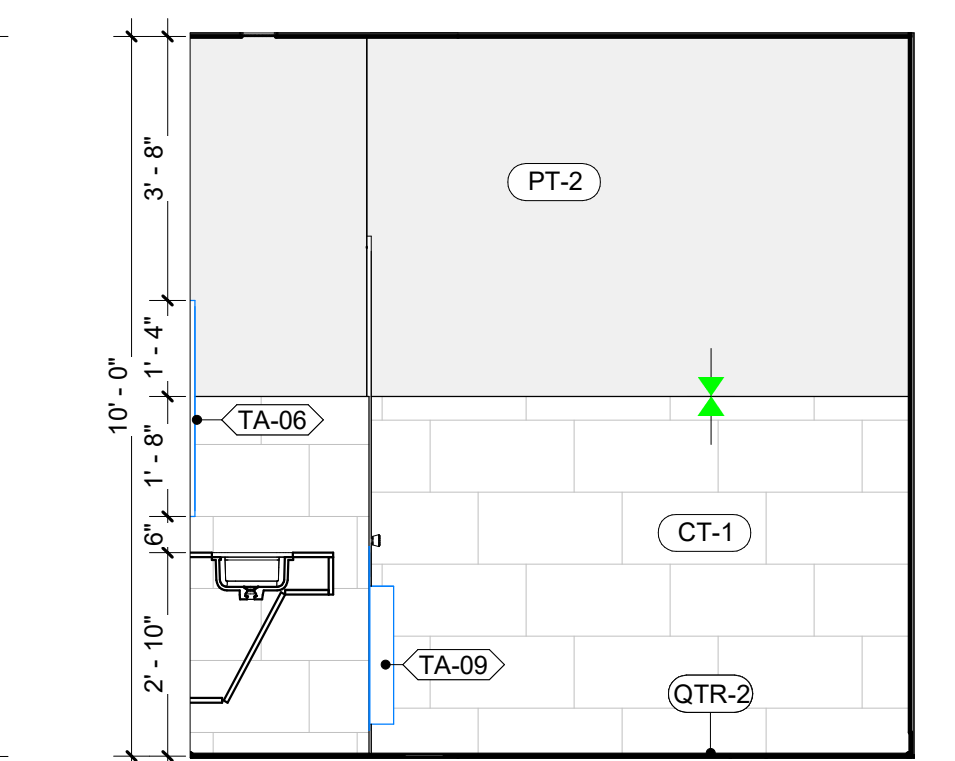


6 Men's Restroom Elevation
3/8" = 1'-0"

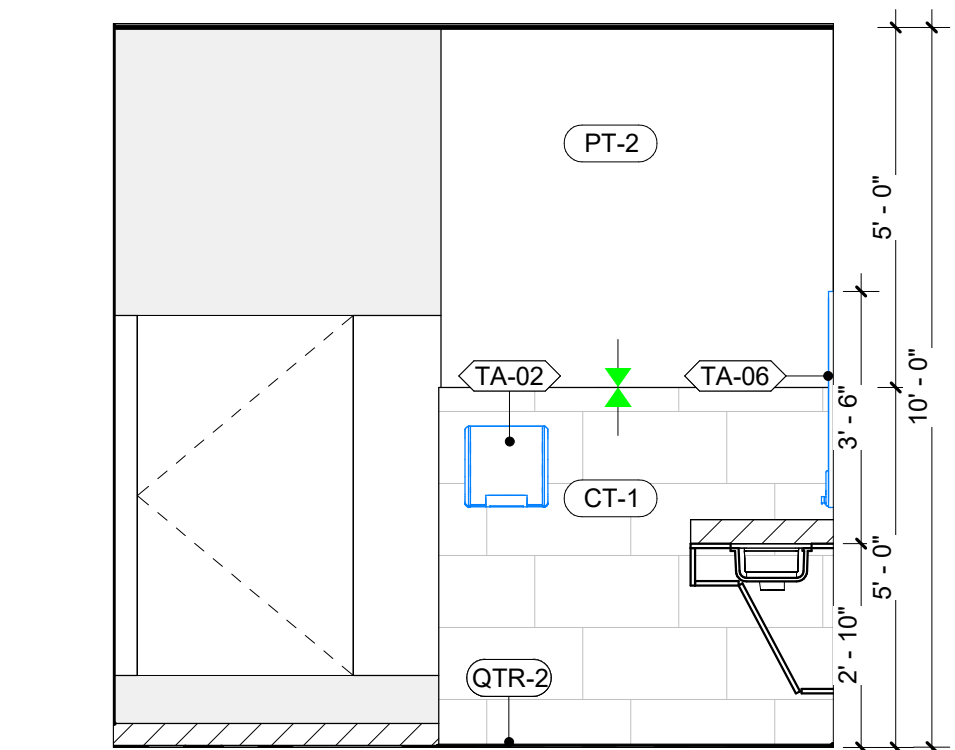


8 Men's Restroom Elevation
3/8" = 1'-0"

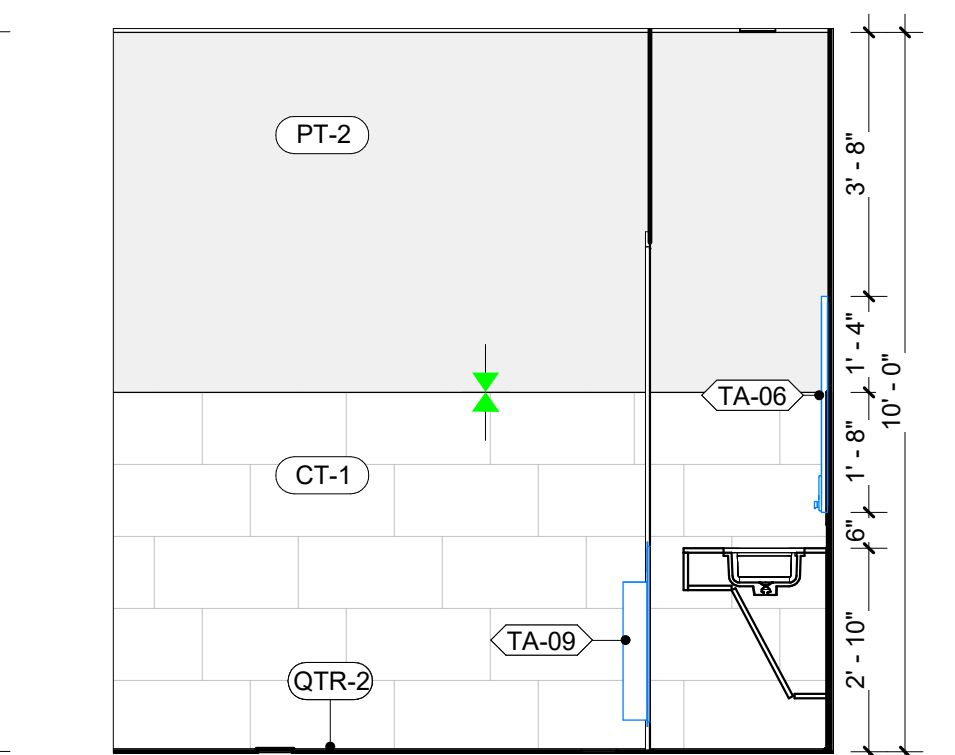
Legend - Finishes	
	Material Tag. Refer to Material Legend
	TR-1. Refer to Details on Sheet 111
	TR-2. Refer to Details on Sheet 111
	TR-3. Refer to Details on Sheet 111



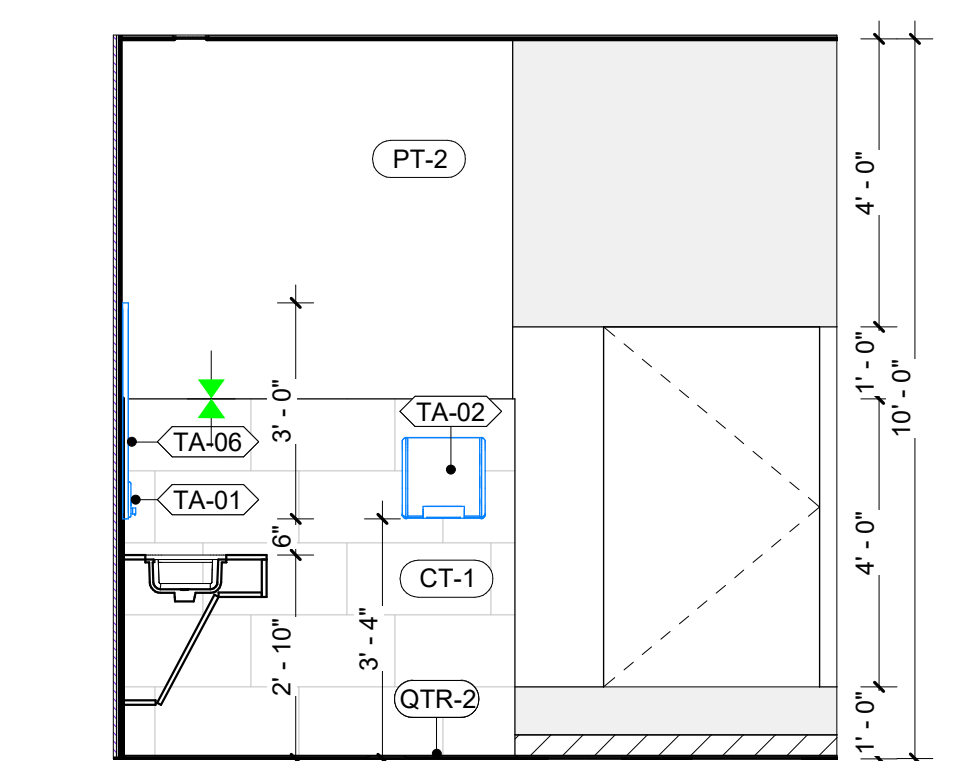
3 Women's Restroom Elevation
3/8" = 1'-0"



5 Women's Restroom Elevation
3/8" = 1'-0"



7 Men's Restroom Elevation
3/8" = 1'-0"



9 Men's Restroom Elevation
3/8" = 1'-0"

Notes - Floor Plan	
1	All dimensions are to face of stud or edge of slab unless noted otherwise. All dimensions labeled "clear" are to face of finish.
2	For missing dimensions and annotations refer to enlarged plans. Sheet locations as noted on callouts.
3	For interior finish refer to finish schedule on interior elevations (A4 series).
4	For door and window types and schedules refer to the (A5 series).
5	Furniture and equipment are NIC and shown for reference only on (A6 series). Provide backing as necessary for wall mounted equipment (A109).
6	For casework, refer to interior elevations (A4 series) and details (A602).
7	All sealant and caulking shall be applied in a clean consistent bead or will be redone at contractor's cost.
8	All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.

Schedule - Toilet Accessory	
Code	Accessory
TA-01	Soap Dispenser - Recessed
TA-02	Hand Dryer
TA-03	Toilet Tissue Dispenser
TA-04	Seat Cover Dispenser
TA-05	Sanitary Napkin Disposal
TA-06	Mirror over Lavatory - 18" x 30"
TA-07	Coat Hook
TA-08	Grab Bars (18"x36"/42")
TA-09	Waste Receptacle surface mounted
TA-10	Baby Changing Table surface mounted

Legend - Toilet Accessory	
	Soap Dispenser (TA-01)
	Hand Dryer (TA-02)
	Waste Receptacle (TA-09)
	Toilet Paper Dispenser (surface mounted) (TA-03)
	Seat Cover Dispenser (TA-04)
	Sanitary Napkin Disposal (TA-05)
	Mirror (TA-06)
	Coat Hook (TA-07)
	Diaper Changing Station (TA-10)

General Notes - Interiors	
1	Ensure surfaces to receive finishes are clean, true and free of irregularities. Do not proceed with work until unsatisfactory conditions have been corrected.
2	No finish substitutions may be made without prior written authorization by Owner.
3	All finishes shall be applied in strict accordance with manufacturer's specifications.
4	Provide temporary protection for all installed finishes as work progresses.
5	Submit samples of finishes for approval prior to installation.
6	All interior wall to be painted PT-2 unless noted otherwise on interior elevations. Interior wall base to be B-1 unless noted otherwise.
7	Examine walls to ensure proper preparation before application of paint. Beginning work implies acceptance of condition.
8	All paint shall be applied in accordance with the manufacturer's specifications for that particular surface.
9	Paint finish on surfaces including: doors, door frames, guardrails, etc shall be factory finishes semi-gloss, unless noted otherwise. If painting over existing paint the surface must be prepped and primed to accept new paint.
10	Field verify existing condition of concrete subfloors receiving new finish. Contractor to include all required floor preparation in bid. Provide price to float floor where necessary to achieve tolerance of 1/2" max. in 10'-0" span.
11	All flooring transitions between rooms shall be at the center of the door. See details for all interior finish material transitions.
12	Flooring shall meet all current non-slip standards and requirements (wet and dry conditions) specified in applicable codes and/or authorities.
13	All exposed and semi exposed surfaces at casework shall receive plastic laminate finish.
14	All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.
15	Refer to the Interior Elevations for vertical finishes and dimensions.

Legend - Key Notes	
Keynote Text	Key Value
189	Mop Sink
224	Plumbing Fixture - Sink 1-compartment
229	Plumbing Fixture - Toilet
253	Sink
285	Toilet Partition
292	Urinal



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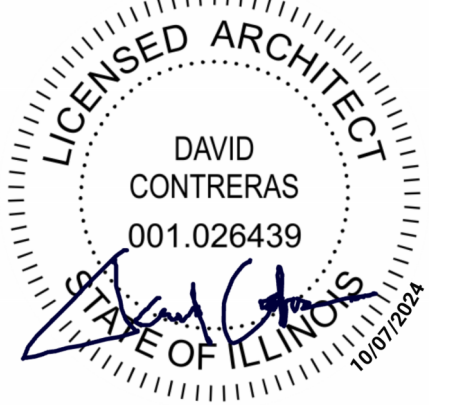
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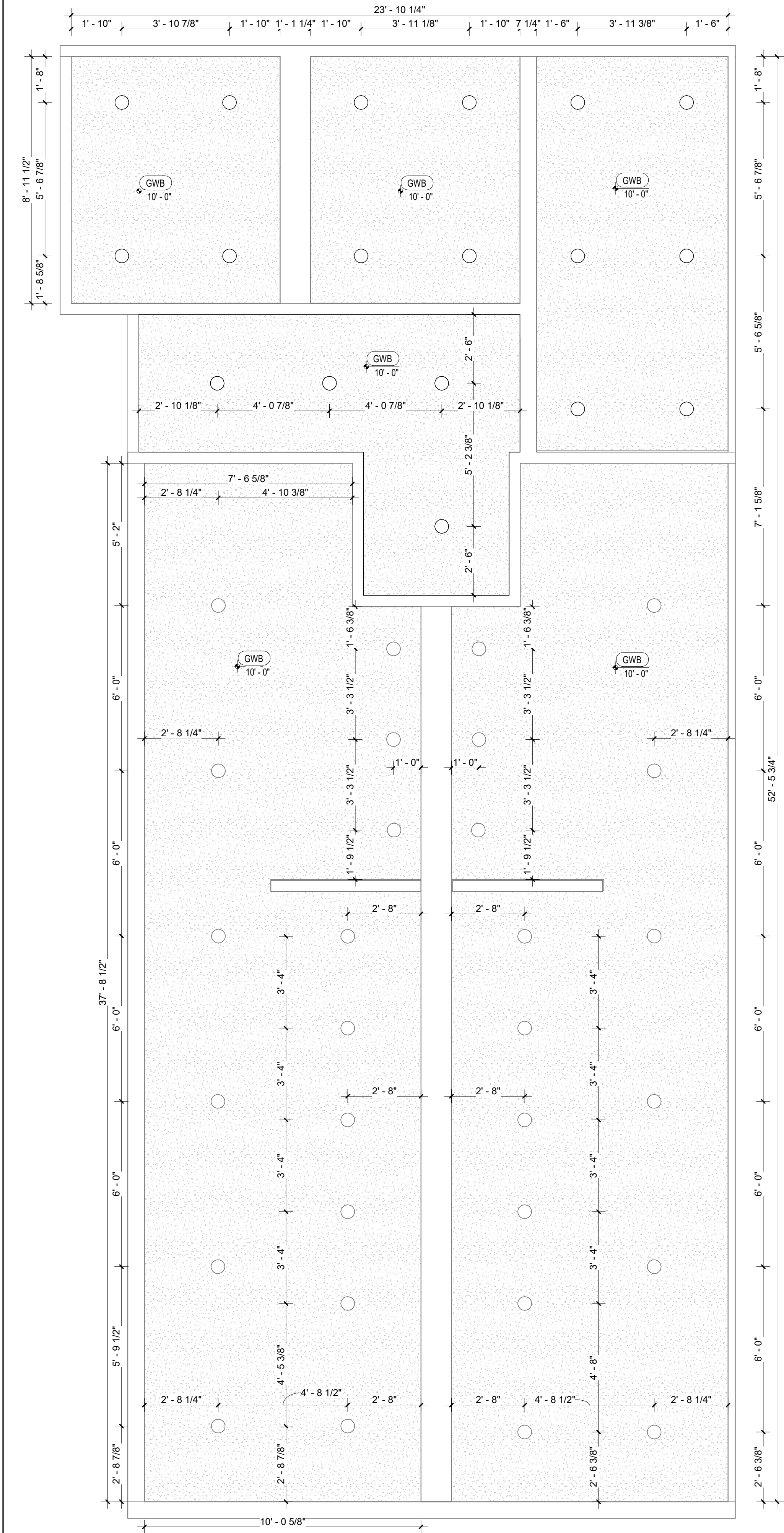


No.	Description	Date
A	Issue for Permit	2024.12.20

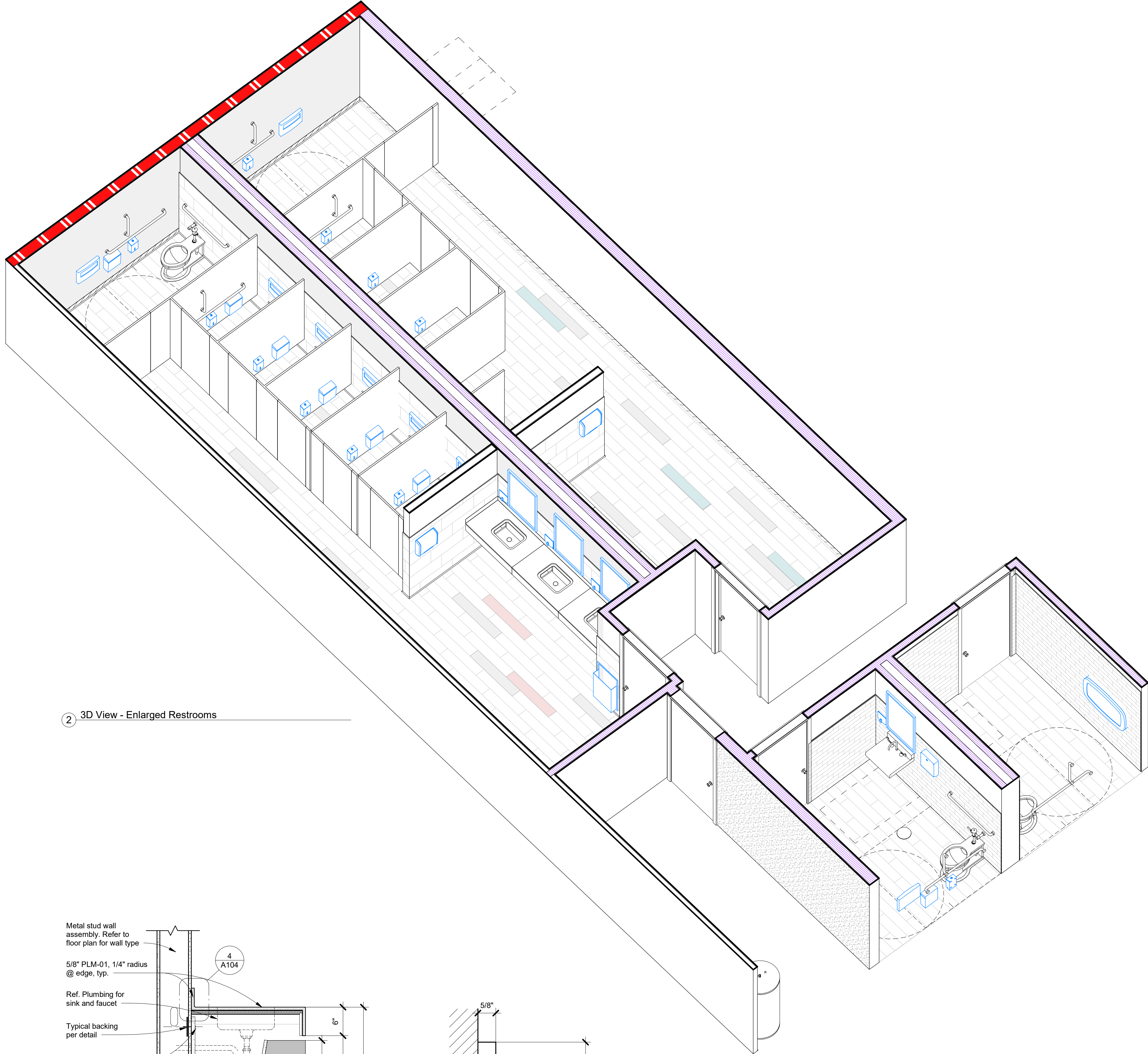
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CHECKED BY: BA
PRJL NO: 23-053
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Enlarged Restrooms

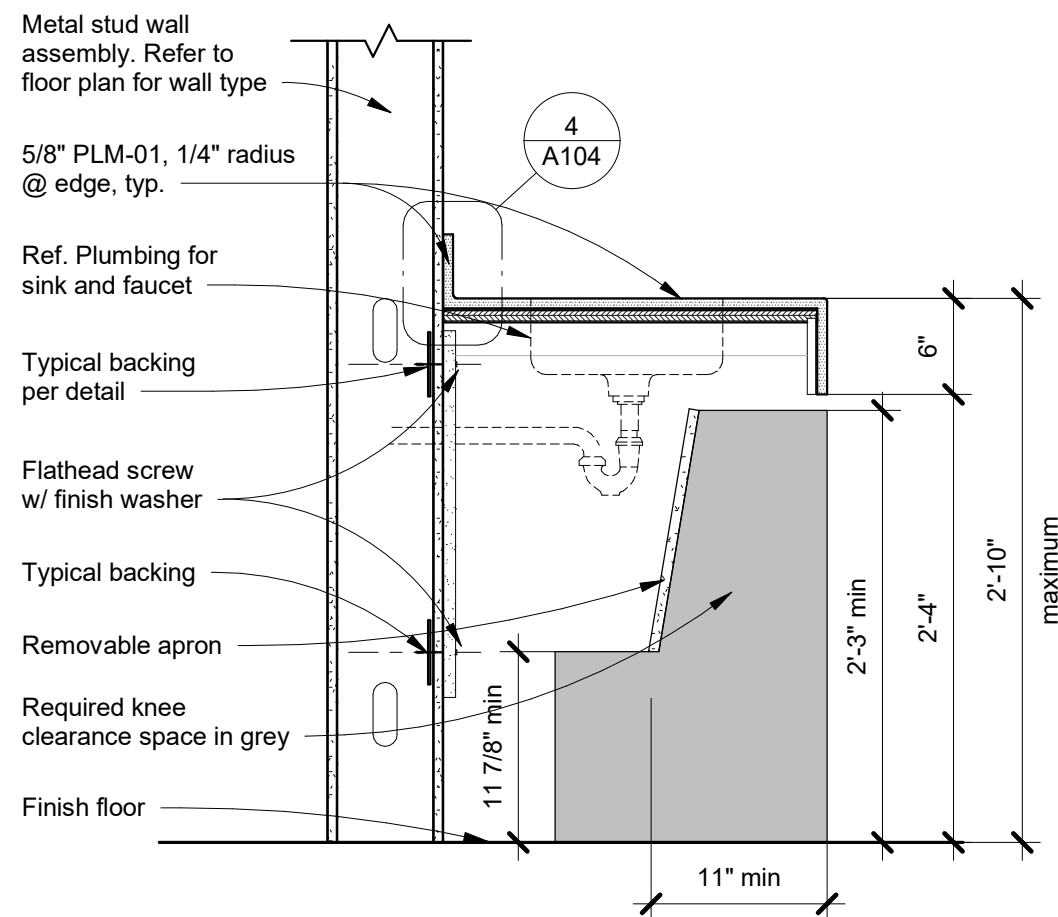
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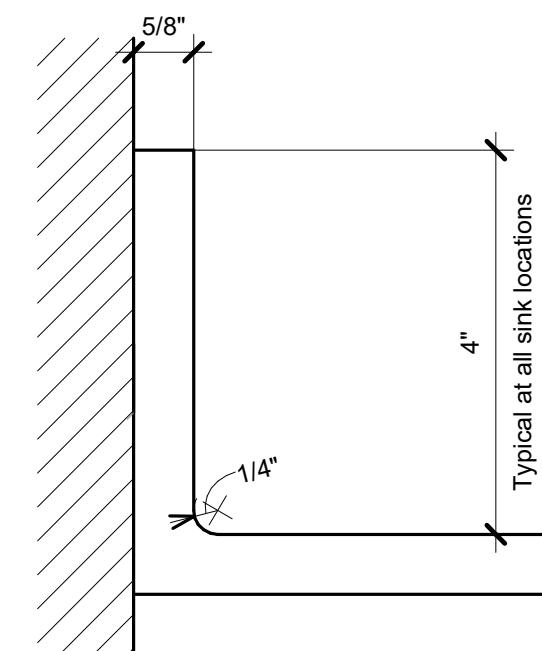
1 Enlarged RCP Restrooms
3/8" = 1'-0"



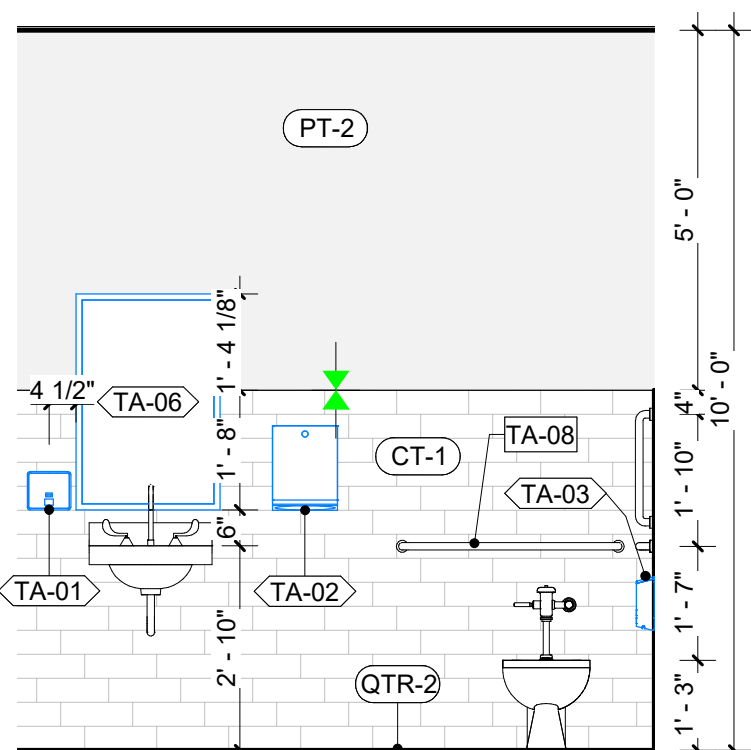
2 3D View - Enlarged Restrooms



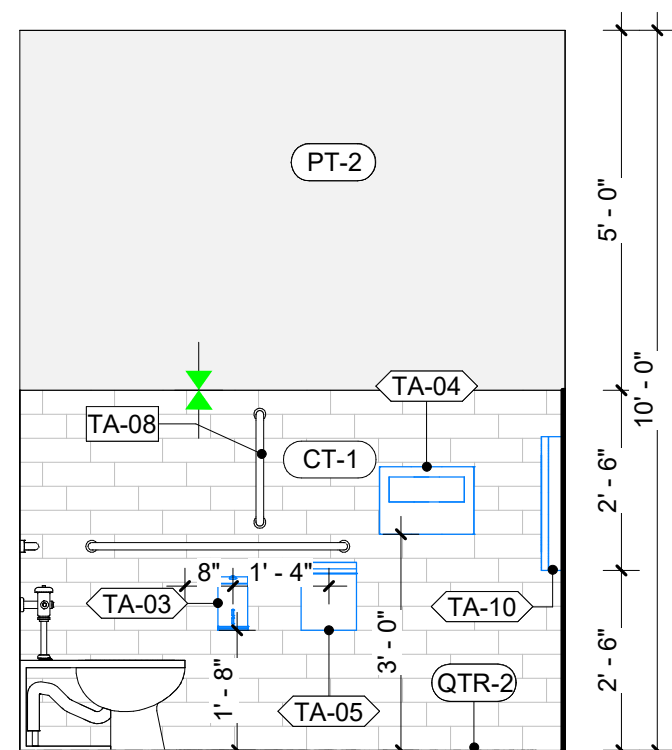
3 Sink w/ Apron
1" = 1'-0"



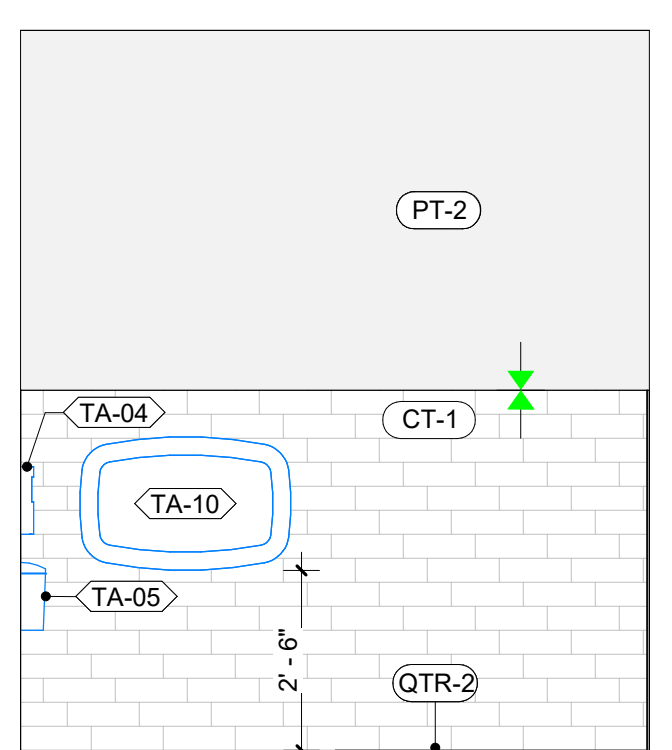
4 Splash at Sink Counter
6" = 1'-0"



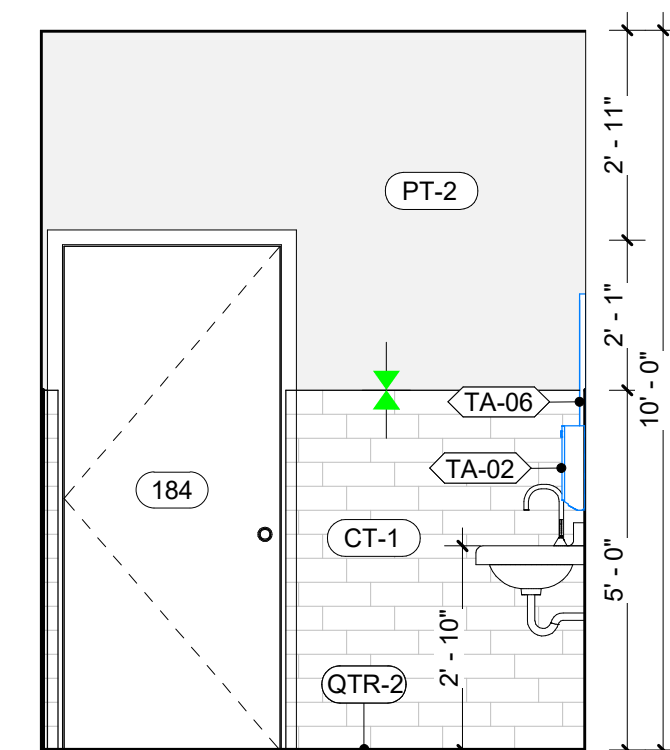
5 Family RR - Elevation a
3/8" = 1'-0"



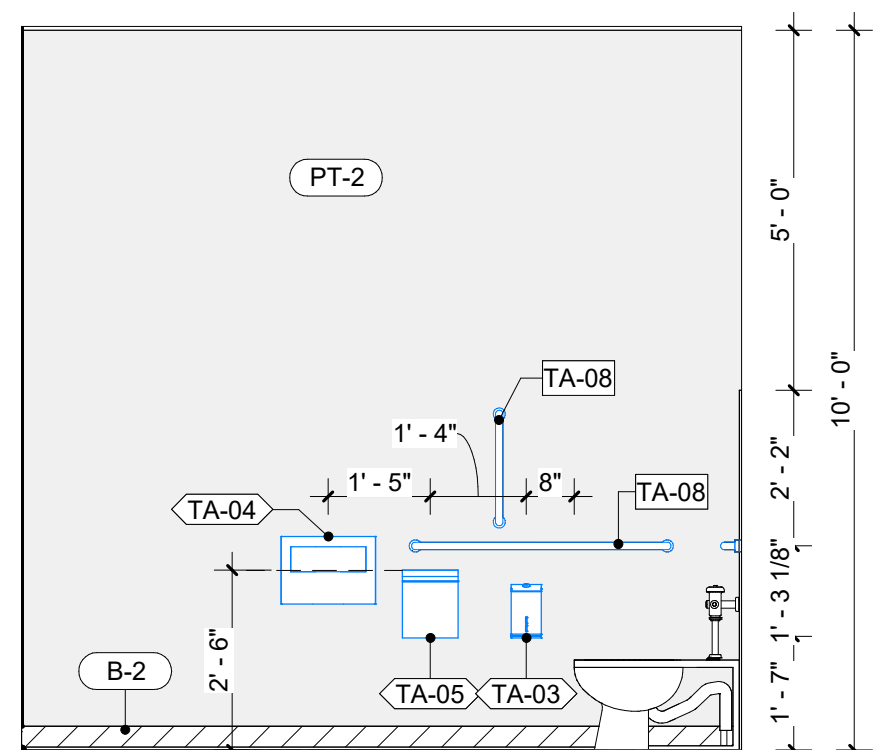
6 Family RR - Elevation b
3/8" = 1'-0"



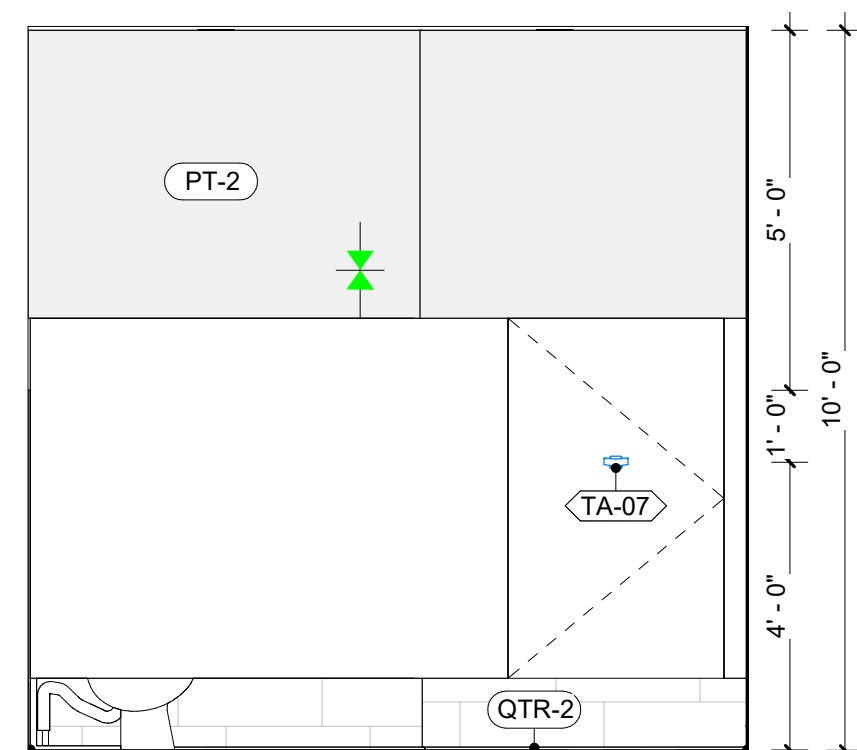
7 Family RR - Elevation c
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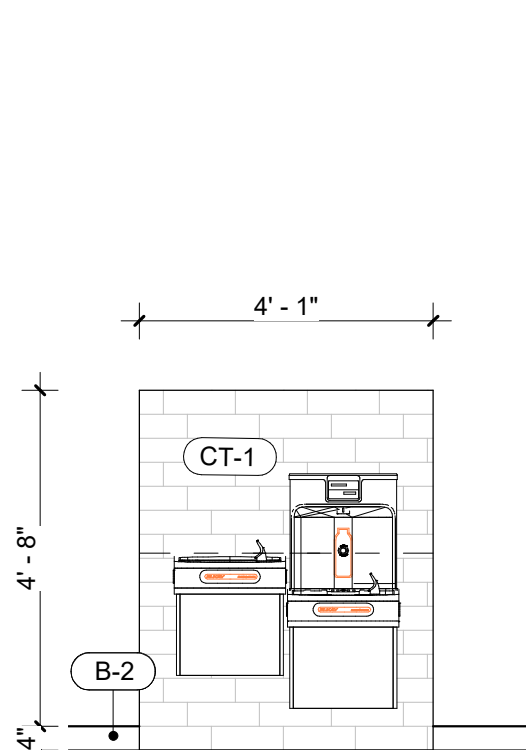
8 Family RR - Elevation d
3/8" = 1'-0"



9 Accesible Restroom - TYP
3/8" = 1'-0"



10 Accesible Restroom - TYP
3/8" = 1'-0"



11 Elevation 1 - a
3/8" = 1'-0"

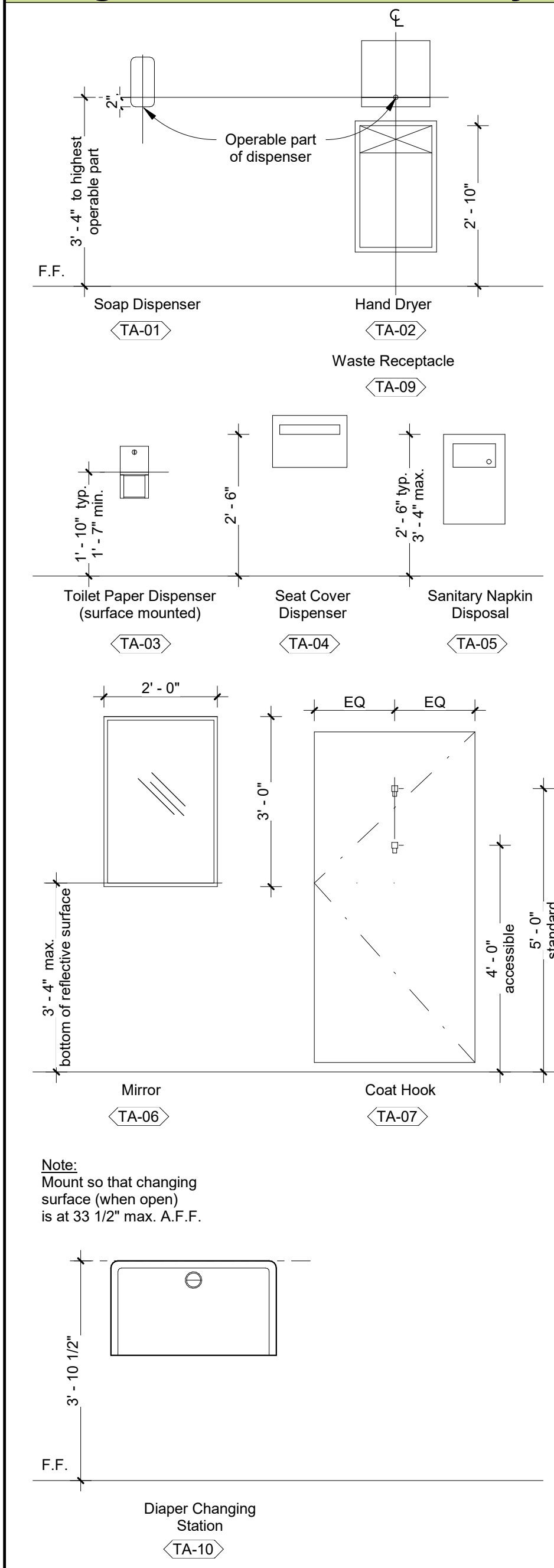
Notes - Floor Plan

- All dimensions are to face of stud or edge of slab unless noted otherwise. All dimensions labeled "clear" are to face of finish.
- For missing dimensions and annotations refer to enlarged plans. Sheet locations as noted on callouts.
- For interior finish refer to finish schedule on interior elevations (A4 series).
- For door and window types and schedules refer to the (A5 series).
- Furniture and equipment are NIC and shown for reference only on (A6 series). Provide backing as necessary for wall mounted equipment (A109).
- For casework, refer to interior elevations (A4 series) and details (A602).
- All sealant and caulking shall be applied in a clean consistent bead or will be redone at contractor's cost.
- All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.

Schedule - Toilet Accessory

Code	Accessory	Manu.	Model	Color	Resp.
TA-01	Soap Dispenser - Recessed	Bobrick	B-4063	Stainless	NIC
TA-02	Hand Dryer	Bobrick	B-7120	White	NIC
TA-03	Toilet Tissue Dispenser	Bobrick	B-272	Stainless	NIC
TA-04	Seat Cover Dispenser	Gamco	TSC-1	Stainless	NIC
TA-05	Sanitary Napkin Disposal	Bobrick	B-270	Stainless	NIC
TA-06	Mirror over Lavatory - 18" x 30"	Bobrick	B-294	Stainless	CFCI
TA-07	Coat Hook	Bobrick	B-6727	Stainless	CFCI
TA-08	Grab Bars (18"36"42")	Bobrick	B-5806	Stainless	CFCI
TA-09	Waste Receptacle surface mounted	Bobrick	B-3644	Stainless	CFCI
TA-10	Baby Changing Table surface mounted	Bobrick	KB200-01	Grey	CFCI

Legend - Toilet Accessory



General Notes - Interiors

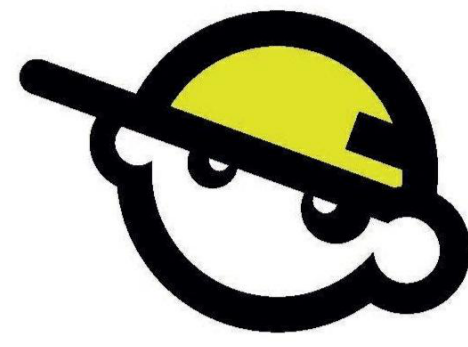
- Ensure surfaces to receive finishes are clean, true and free of irregularities. Do not proceed with work until unsatisfactory conditions have been corrected.
- No finish substitutions may be made without prior written authorization by Owner.
- All finishes shall be applied in strict accordance with manufacturer's specifications.
- Provide temporary protection for all installed finishes as work progresses.
- Submit samples of finishes for approval prior to installation.
- All interior wall to be painted PT-2 unless noted otherwise on interior elevations. Interior wall base to be B-1 unless noted otherwise.
- Examine walls to ensure proper preparation before application of paint. Beginning work implies acceptance of condition.
- All paint shall be applied in accordance with the manufacturer's specifications for that particular surface.
- Paint finish on surfaces including: doors, door frames, guardrails, etc shall be factory finishes semi-gloss, unless noted otherwise. If painting over existing paint the surface must be prepped and primed to accept new paint.
- Field verify existing condition of concrete subfloors receiving new finish. Contractor to include all required floor preparation in bid. Provide price to float floor where necessary to achieve tolerance of 1/2" max. in 10'-0" span.
- All flooring transitions between rooms shall be at the center of the door. See details for all interior finish material transitions.
- Flooring shall meet all current non-slip standards and requirements (wet and dry conditions) specified in applicable codes and/or authorities.
- All exposed and semi exposed surfaces at casework shall receive plastic laminate finish.
- All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.
- Refer to the Interior Elevations for vertical finishes and dimensions.



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No.	Description	Date
A	Issue for Permit	2024.12.20
No.	Description	Date

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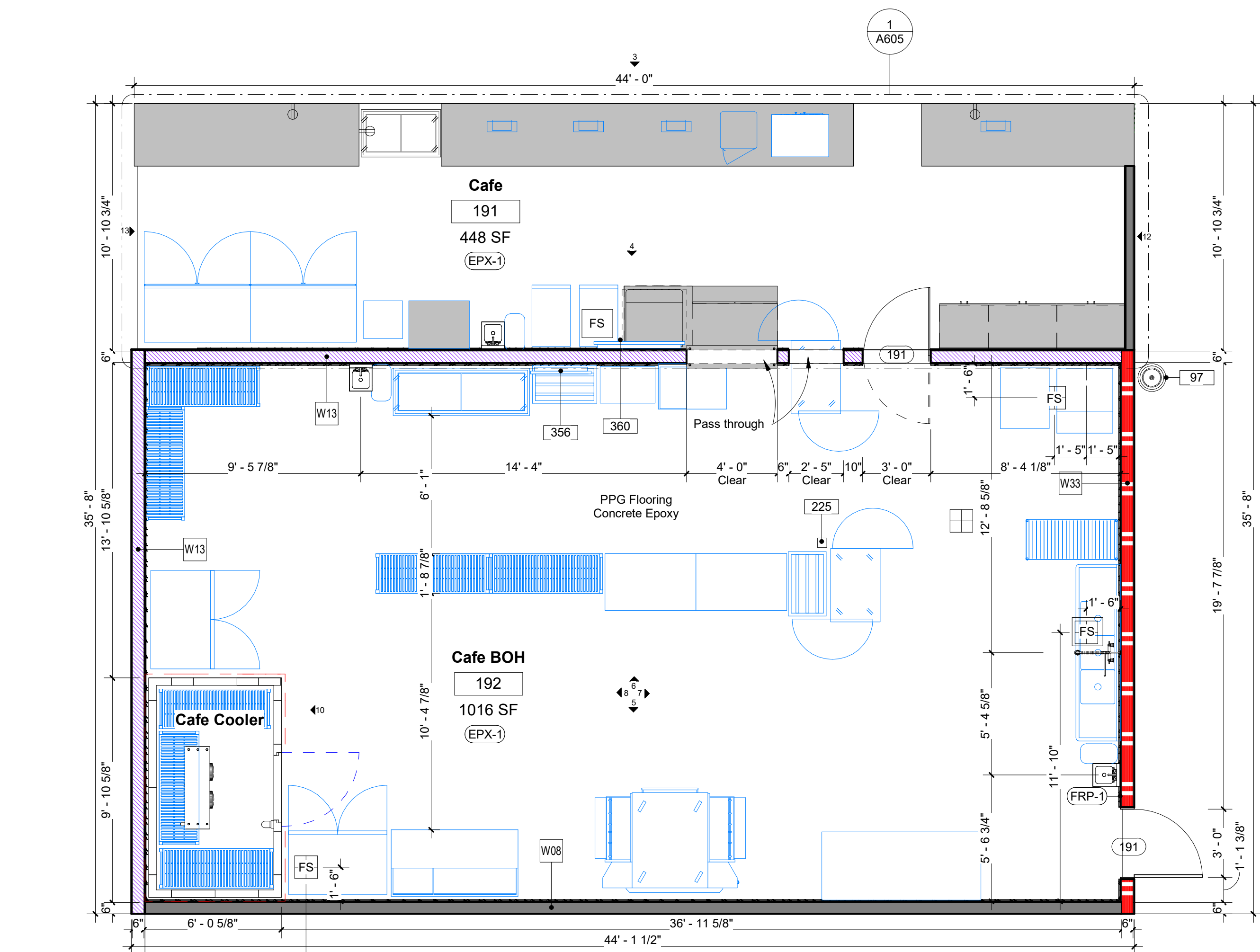
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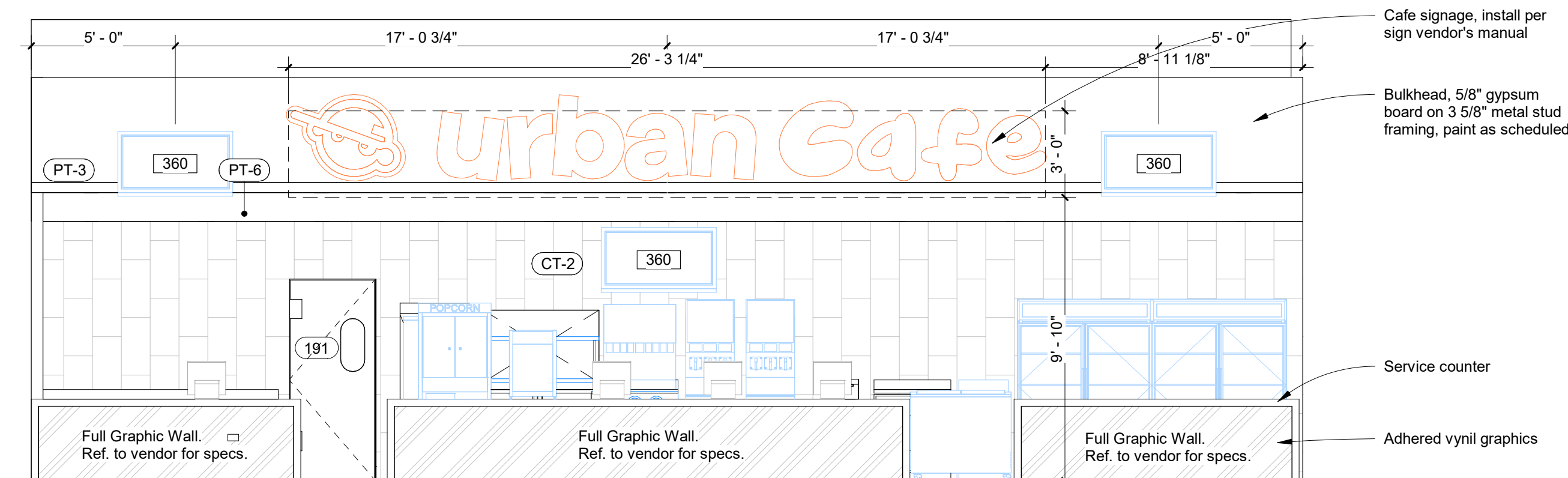
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Enlarged Restrooms

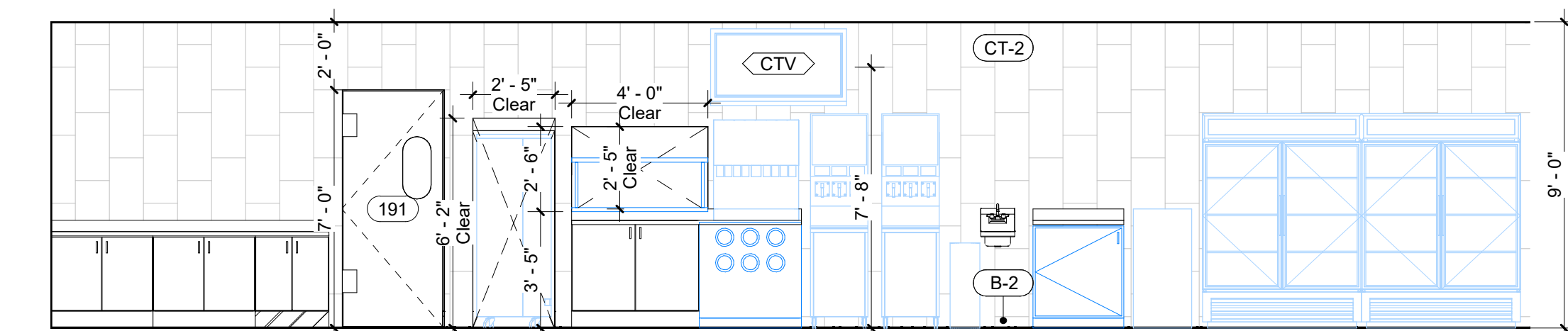
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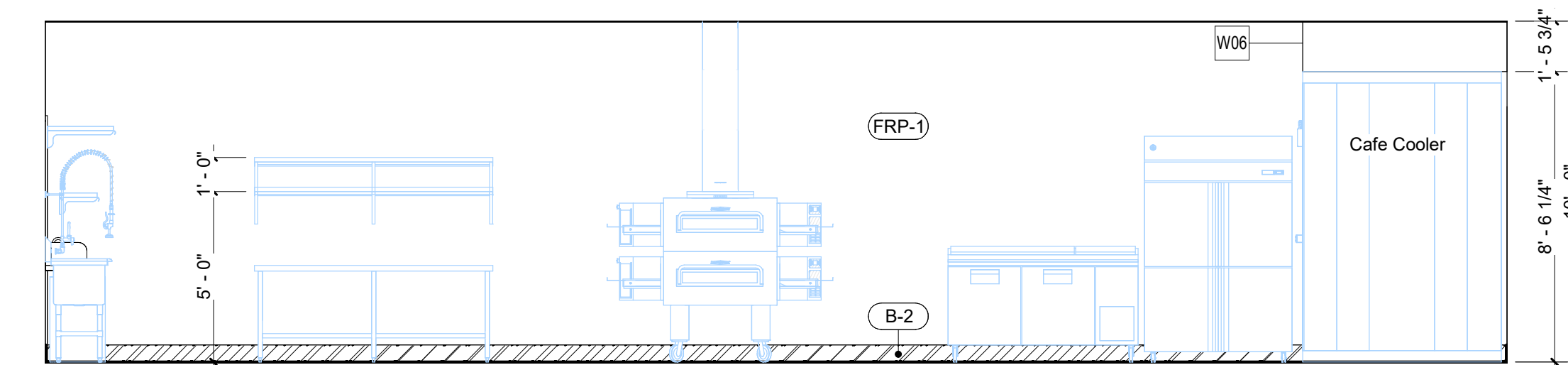
1 Enlarged Plan - Cafe
1/4" = 1'-0"



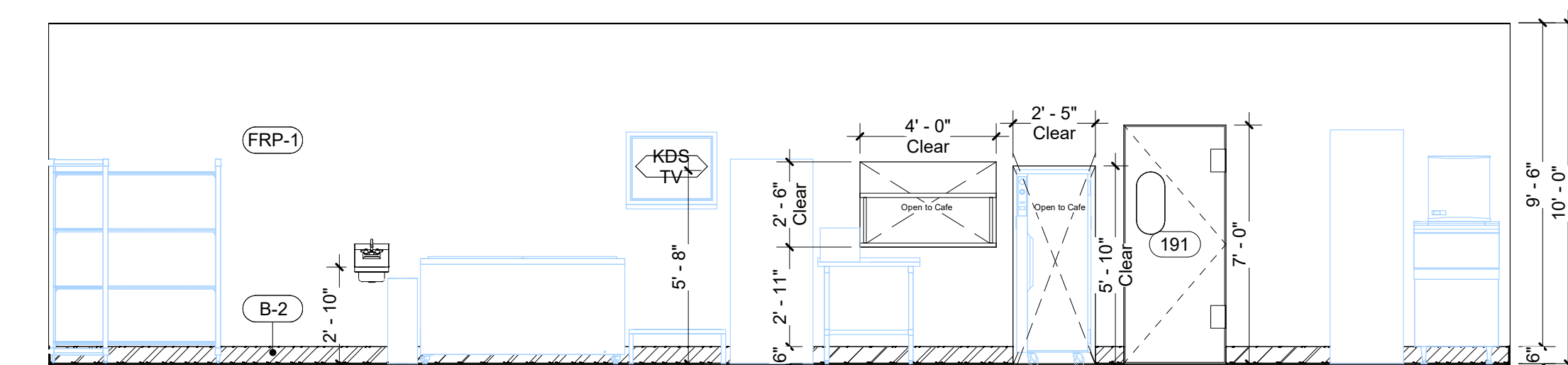
3 Cafe Front Elevation
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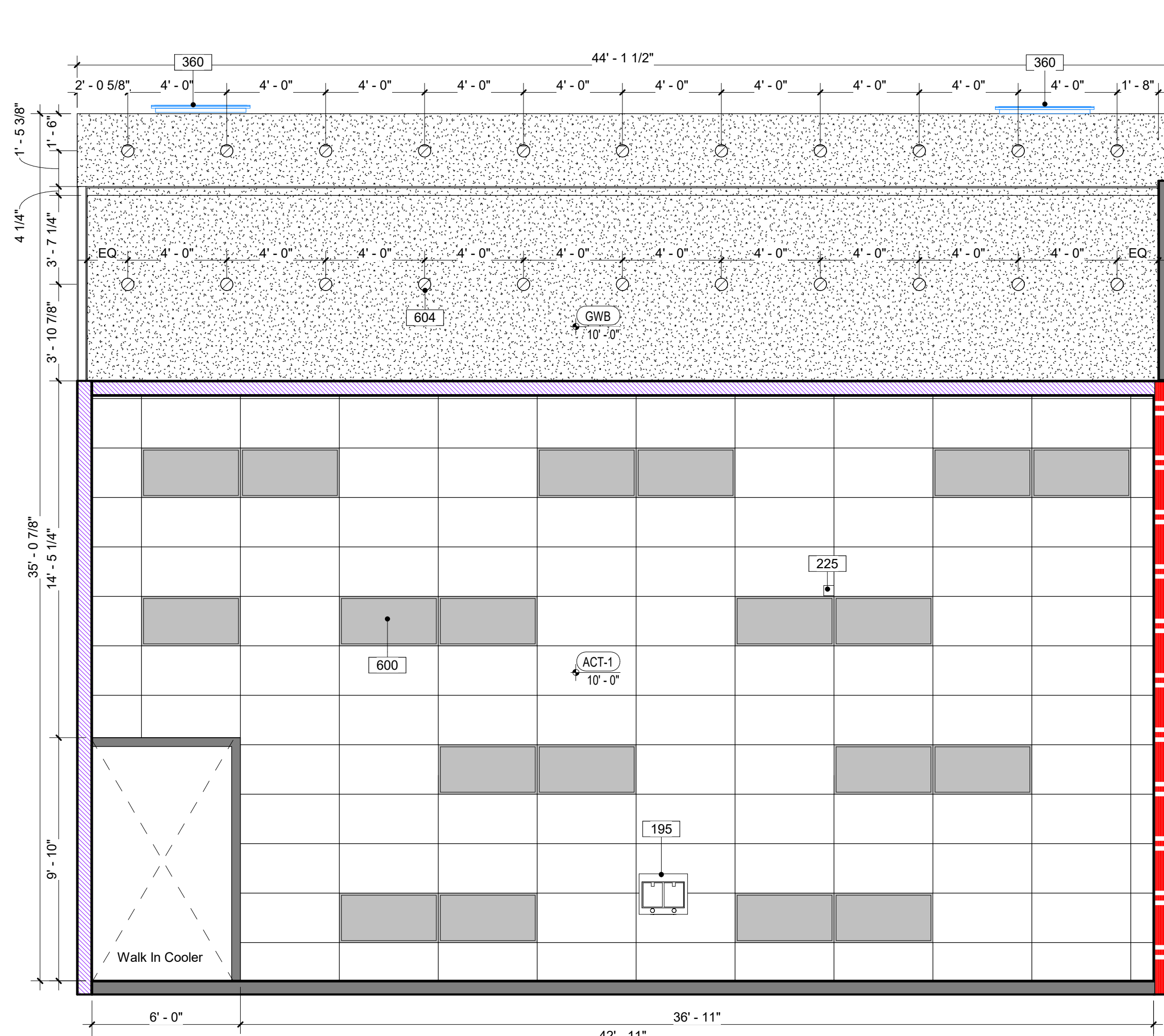
4 Cafe Rear Counters Elevation
1/4" = 1'-0"



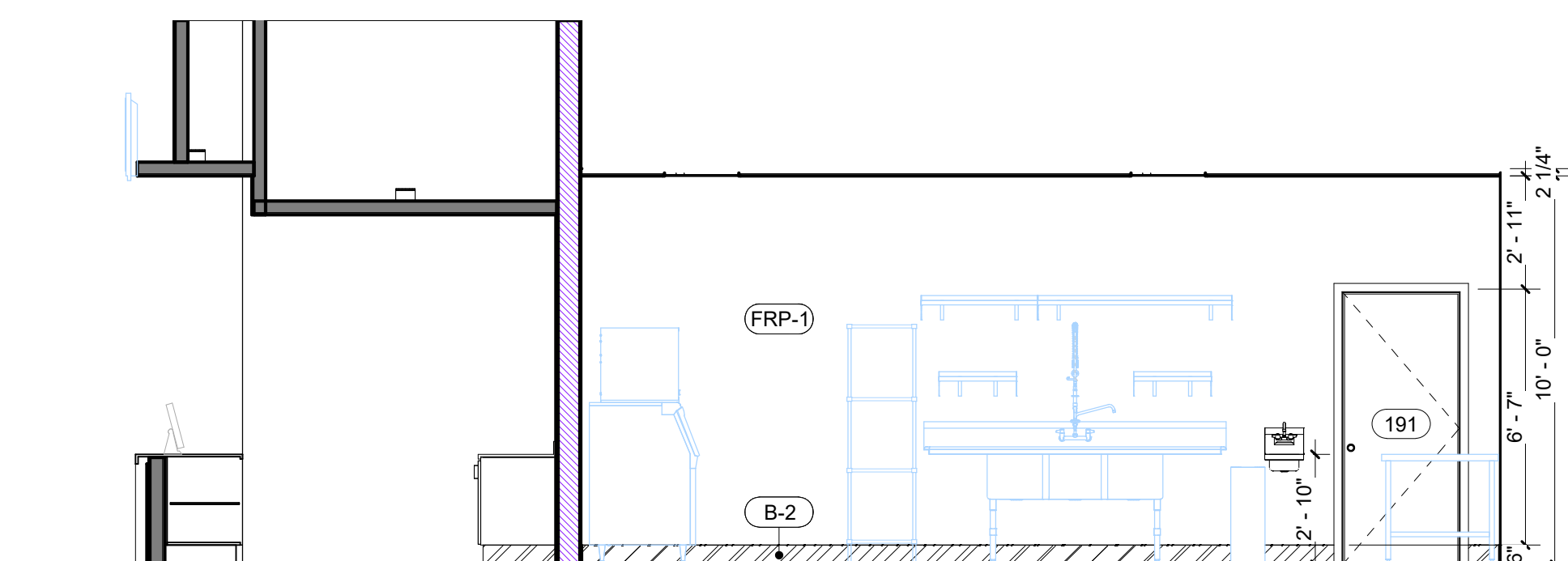
5 Cafe BOH Elevation
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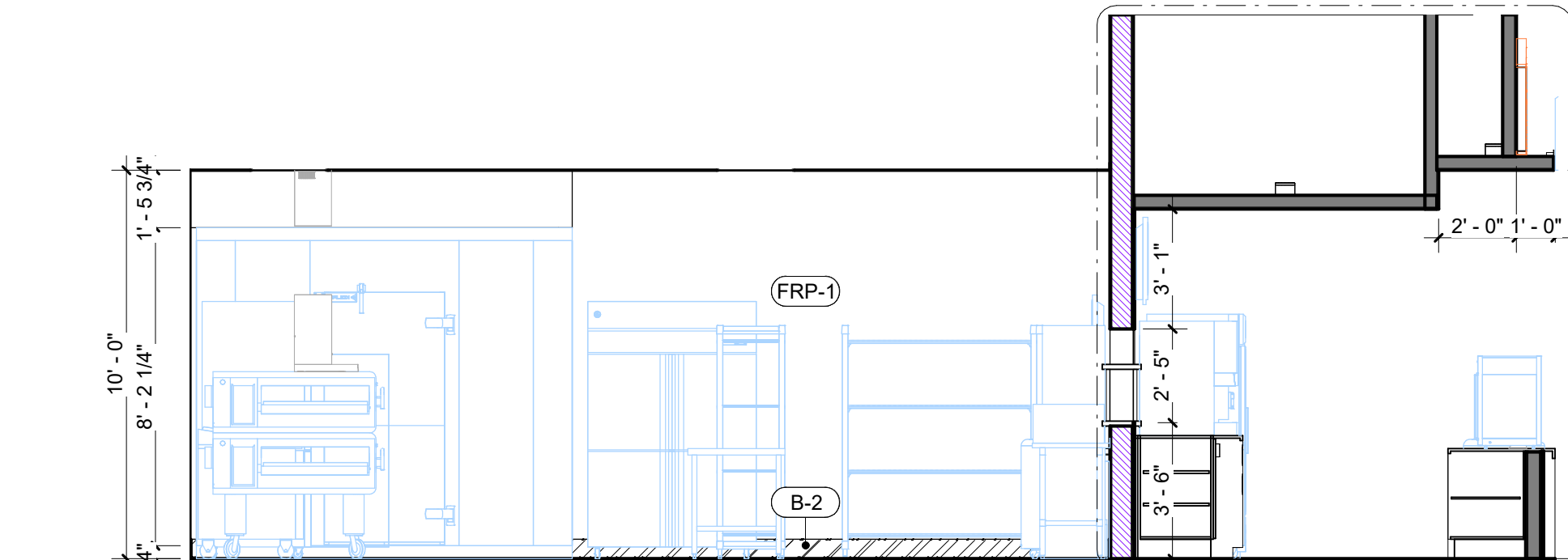
6 Cafe BOH Elevation
1/4" = 1'-0"



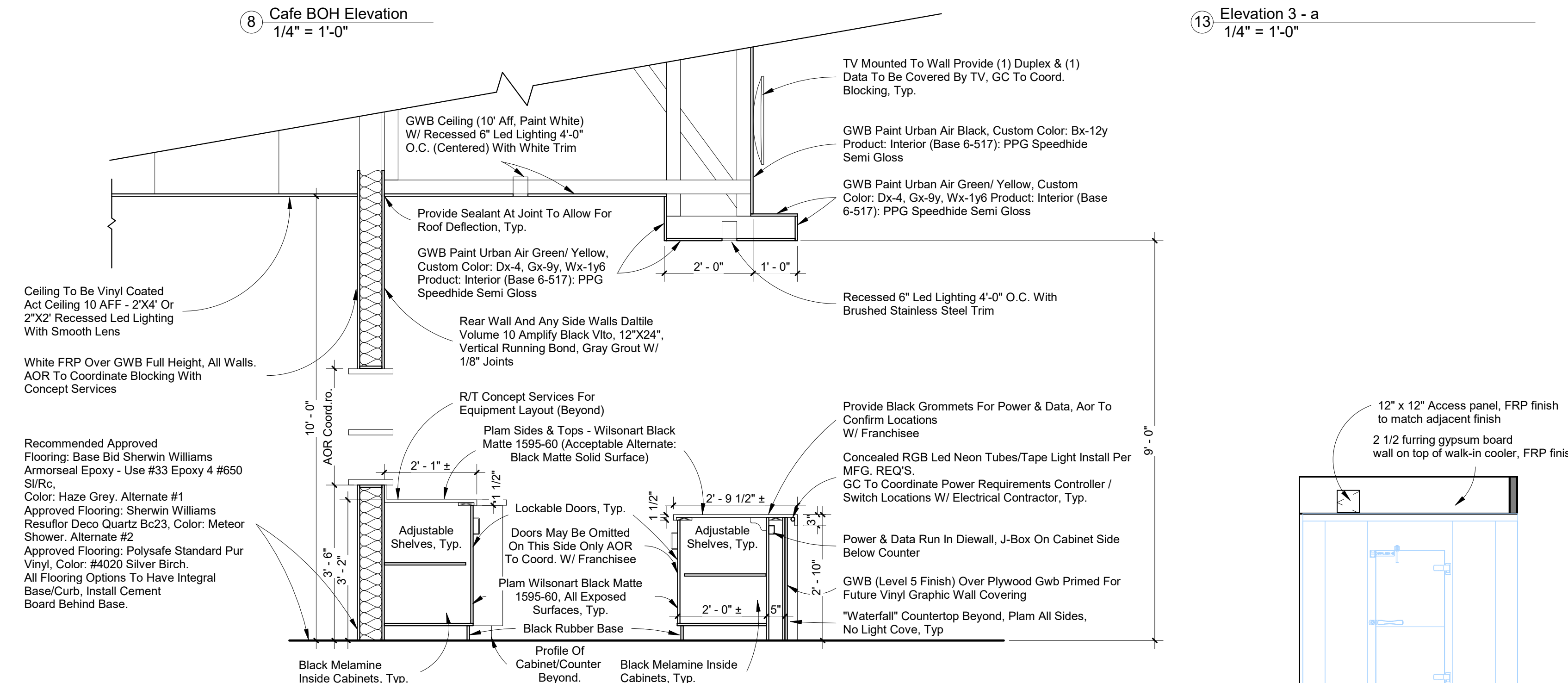
2 Enlarged Plan - RCP
1/4" = 1'-0"



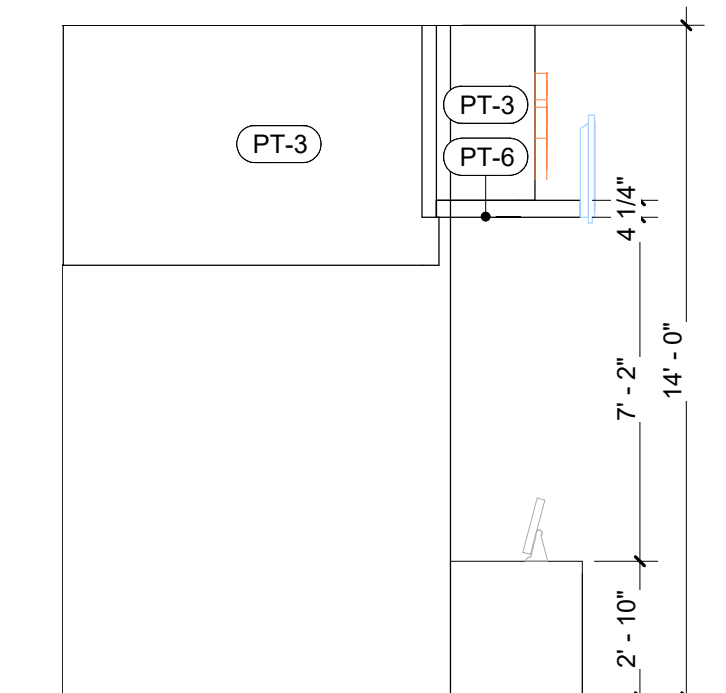
7 Cafe BOH Elevation
1/4" = 1'-0"



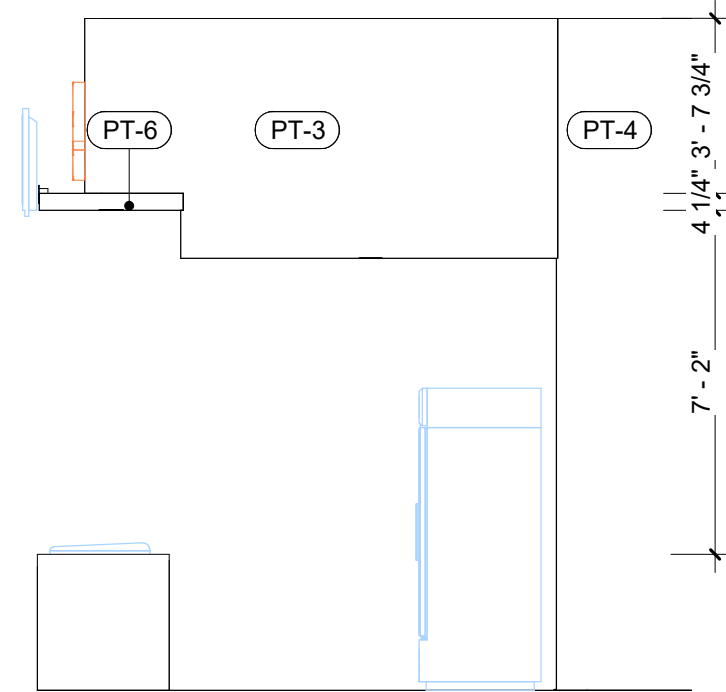
8 Cafe BOH Elevation
1/4" = 1'-0"



11 UA Cafe Section
1/2" = 1'-0"



12 Elevation 4 - a
1/4" = 1'-0"



13 Elevation 3 - a
1/4" = 1'-0"



10 Elevation 25 - a
1/4" = 1'-0"

Notes - Floor Plan

- All dimensions are to face of stud or edge of slab unless noted otherwise. All dimensions labeled "clear" are to face of finish.
- For missing dimensions and annotations refer to enlarged plans. Sheet locations as noted on callouts.
- For interior finish refer to finish schedule on interior elevations (A4 series).
- For door and window types and schedules refer to the (A5 series).
- Furniture and equipment are HIC and shown for reference only on (A6 series).
- Provide backing as necessary for wall mounted equipment (A109).
- For casework, refer to interior elevations (A4 series) and details (A602).
- All sealant and caulking shall be applied in a clean consistent bead or will be redone at contractor's cost.
- All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.

Legend - Partitions

- Note: Refer to floor plan for partition tag and sheet A109 for partition details.
- New Wall
 - New half height wall
 - New Acoustic Wall
 - New One Hour Fire Rated Wall
 - New Two Hour Fire Rated Wall
 - New Plumbing Chase Wall
 - Existing Wall
 - Existing One Hour Fire rated Wall
 - Acoustic Wall

Legend - Floor Plan

- Partition Type Tag
- Door Tag
- Storefront Tag
- Material Tag
- Spot Elevation
- Keynote Tag

Legend - Interior Elevations

- Material Tag - Refer to Finish Schedule A111
- Door Tag - Sheet A501
- Toilet Accessory Tag - Sheet A103

Notes - Interior Elevations

- Refer to floor plans for horizontal controls, overall wall dimensions, door fixture and wall orientation.
- All dimensions are to face of finish unless noted otherwise.
- For toilet accessory codes refer to toilet accessory schedule on sheet (A102).
- Paint all exposed surfaces of trim including edges.
- Paint emergency lights and fire alarm devices to match adjacent construction as permitted by fire marshal.
- Paint all exposed gas lines with black.
- Coordinate with owner on all owner furnished items to facilitate proper and complete installation.
- Refer to owner's interior design package for specific finish information. This is a deferred submittal to the contractor.
- Refer to the Kitchen drawings in the (FS sheets) for specific backing requirements for wall mounted equipment.

Notes - Cafe

- Refer to Food Service or FS series for additional information from the kitchen equipment vendor. This includes the kitchen equipment, millwork, specs, blocking, MEP requirements and details.
- Refer to Food Service or FS series for stainless steel wall cladding location (behind pizza ovens). Install cement board and mineral wool insulation behind. No combustible materials allowed including gypsum wall board.
- Dedicated RTU/HVAC unit for the kitchen area with a dedicated thermostat is required. Install MFG's Type I exhaust hood over the pizza oven area to further control heat gain. Consult with mechanical engineer for final design details.
- Install walk-in cooler condenser unit in remote exterior location on roof. Coordinate the final location with kitchen vendor.
- All flooring to have integral base/curb with cement board behind base.

Keynotes

97	Bulk Co2 Tank
195	Oven Hood
225	Power Pole (Ref. Electrical)
356	TV KDS System
360	AV - 55" TV (Wall Mount)
600	Lighting - LED
604	Lighting - LED Effect Fixture (Ref. Electrical)



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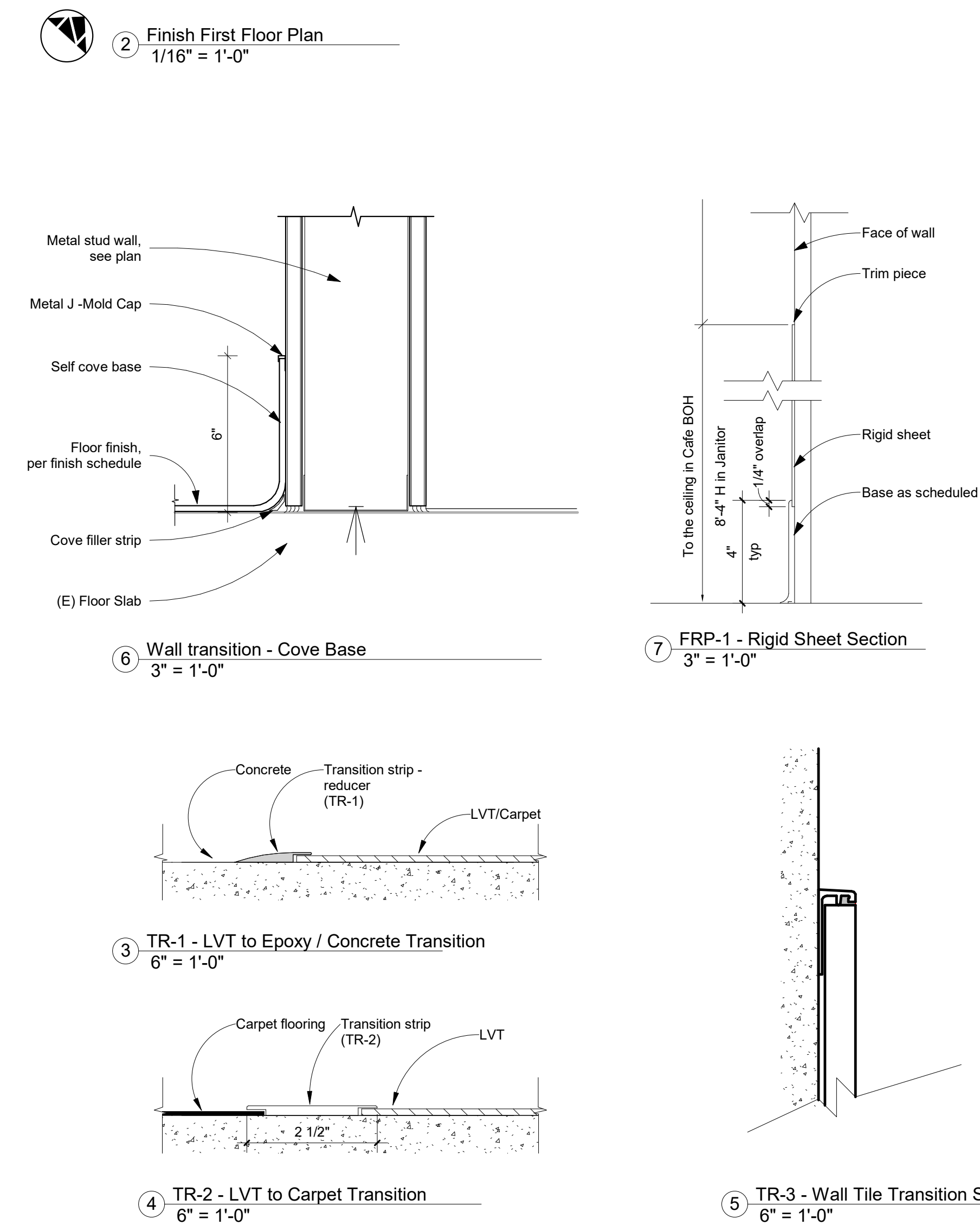
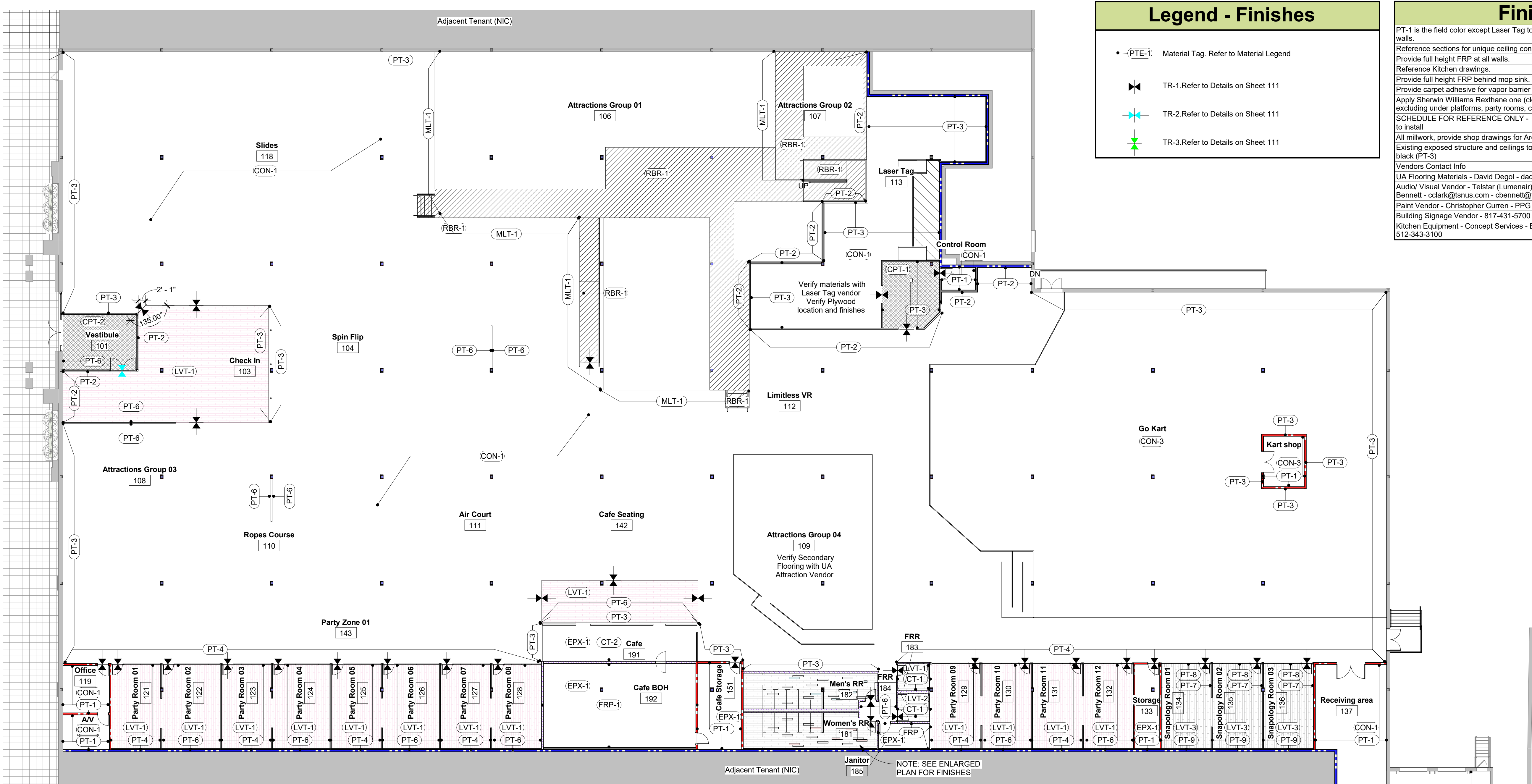


No.	Description	Date
A	Issue for Permit	2024.12.20

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Enlarged Cafe

A105



Legend - Finishes

- PT-1 Material Tag. Refer to Material Legend
- TR-1 Refer to Details on Sheet 111
- TR-2 Refer to Details on Sheet 111
- TR-3 Refer to Details on Sheet 111

Finish Notes

PT-1 is the field color except Laser Tag to be in black (PT-3). Reference Finish Plan for accent walls.

Reference sections for unique ceiling conditions and heights.

Provide full height FRP at all walls.

Reference Kitchen drawings.

Provide full height FRP behind mop sink.

Provide carpet adhesive for vapor barrier protection.

Apply Sherwin Williams Rexthane one (clear) - only to be applied at the exposed concrete flooring excluding under platforms, party rooms, cafe, BOH or receiving. Utility room and Go karts Tracks.

SCHEDULE FOR REFERENCE ONLY - GC verify and coordinate all finishes with tenant prior to install.

All millwork, provide shop drawings for Architect review / approval

Existing exposed structure and ceilings to be painted in White (PT-1), except Laser Tag to be in black (PT-3).

Vendors Contact Info

UA Flooring Materials - David Degol - dadegol@degol.com - 814-937-5359

Audio/ Visual Vendor - Telstar (Lumenair) - Parts and Smarts - Courtney Clark and Caroline Bennett - cclark@snus.com - cbennett@snus.com - 512-914-3409

Paint Vendor - Christopher Curren - PPG - Christopher.curren@ppg.com - 504-418-5274

Building Signage Vendor - 817-431-5700

Kitchen Equipment - Concept Services - Blake Calvert - bcalvert@conceptserv.com, 512-343-3100

General Notes - Interiors

- Ensure surfaces to receive finished are clean, true and free of irregularities. Do not proceed with work until unsatisfactory conditions have been corrected.
- No finish substitutions may be made without prior written authorization by Architect.
- All finishes shall be applied in strict accordance with manufacturer's specifications.
- Provide temporary protection for all installed finishes as work progresses.
- Submit samples of finishes for approval prior to installation.
- All interior walls to be painted PT-1 unless noted otherwise on the finish plans and interior elevations. Interior wall base to be B-1 unless noted otherwise.
- Examine walls to ensure proper preparation before application of paint. Beginning work implies acceptance of condition.
- All paint shall be applied in accordance with the manufacturer's specifications for that particular surface.
- Paint finish on surfaces including: doors, door frames, guardrails, etc shall be factory finishes semi-gloss, unless noted otherwise. If painting over existing paint the surface must be prepped and primed to accept new paint.
- All interior handrails, guardrails and stair stringers to be painted (black).
- Field verify existing condition of concrete subfloors receiving new finish. Contractor to include all required floor preparation in bid. Provide price to float floor where necessary to achieve tolerance of 1/2" max. in 10'x4' span.
- All flooring transitions between rooms shall be at the center of the door. See details for all interior finish material transitions.
- Flooring shall meet all current non-slip standards and requirements (wet and dry conditions) specified in applicable codes and/or authorities.
- All exposed concrete to be polished and sealed unless noted otherwise. Refer to finish tag (SC-1) where applicable.
- All exposed and semi exposed surfaces at casework shall receive plastic laminate finish.
- All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.
- Refer to the Interior Elevations in the (Sheet A111 and A4 series) for vertical finishes and dimensions.

Room Finish Schedule.

Room #	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
101	Vestibule	LVT-1	-	PT-6	ES
102	Check in Queueing	LVT-1	-	-	ES
103	Check in	LVT-1	-	PT-3	ES
104	Spin Flip	EPX-1	-	-	ES
105	Self Check-in	LVT-1	-	PT-6	ES
106	Attractions Group 01	RPR-1	-	PT-3	ES
107	Attractions Group 02	RPR-1	-	PT-3	ES
108	Attractions Group 03	TBD	-	PT-3	ES
109	Attractions Group 04	TBD	-	PT-3	ES
110	Ropes Course	CONC-1	-	-	ES
111	Air Court	-	-	-	ES
112	Limitless VR	EPX-1	-	PT-1	ES
113	Laser Tag	CONC-1	-	PT-3	ES
114	Staging	OPT-1	-	PT-3	ES
115	Control Room	CONC-1	-	PT-1	ACT-1
116	Go Kart	CONC-3	-	PT-3	ES
117	Kart shop	EPX-1	-	PT-1	ACT-1
118	Slides	CONC-1	-	-	ES
119	Office	EPX-1	-	PT-1	ACT-1
120	AV	EPX-1	-	PT-1	ACT-1
121	Party Room 01	LVT-1	B-1	PT-6	ACT-1
122	Party Room 02	LVT-1	B-1	PT-4	ACT-1
123	Party Room 03	LVT-1	B-1	PT-6	ACT-1
124	Party Room 04	LVT-1	B-1	PT-4	ACT-1
125	Party Room 05	LVT-1	B-1	PT-6	ACT-1
126	Party Room 06	LVT-1	B-1	PT-4	ACT-1
127	Party Room 07	LVT-1	B-1	PT-6	ACT-1
128	Party Room 08	LVT-1	B-1	PT-4	ACT-1
129	Party Room 09	LVT-1	B-1	PT-6	ACT-1
130	Party Room 10	LVT-1	B-1	PT-4	ACT-1
131	Party Room 11	LVT-1	-	PT-6	ACT-1
132	Party Room 12	LVT-1	-	PT-4	ACT-1
133	Storage	EPX-1	B-1	PT-1	ACT-1
134	Snapology Room 01	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
135	Snapology Room 02	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
136	Snapology Room 03	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
137	Receiving area	EPX-1	-	PT-1	ES
138	Shared Receiving	EPX-1	-	PT-1	ES
139	Tech Bar A	EPX-1	-	PT-6	ES
140	Tech Bar B	EPX-1	-	PT-6	ES
141	Booths Zone 01	EPX-1	-	-	ES
142	Cafe Seating	EPX-1	-	-	ES
143	Party Zone 01	EPX-1	-	-	ES
144	Party Zone 02	EPX-1	-	-	ES
145	Booths Zone 02	EPX-1	-	-	ES
151	Cafe Storage	EPX-1	B-2	PT-1	ACT-1
152	Queueing	LVT-1	-	-	ES
181	Women's RR	LVT-1	QTR-2	PT-2 / CT-1	GWB
182	Men's RR	LVT-2	QTR-2	PT-2 / CT-1	GWB
183	FRR	LVT-2	QTR-2	PT-2 / CT-1	GWB
184	FRR	LVT-1	QTR-2	PT-2 / CT-1	GWB
185	Janitor	EPX-1	B-1	PT-2 / CT-1	GWB
191	Cafe	EPX-1	B-2	CT-2	GWB
192	Cafe BOH	EPX-1	B-2	FRP-1	ACT-1

Materials Schedule - Interiors

ITEM	NAME	VENDOR	STYLE	COLOR	COMMENTS
Wall Coverings					
CT-1	TILES	DALTILE	12X24 VOLUME 1.0	AMPLIFY BLACK VL70	RESTROOM, HORIZ 1/3 RUNNING BOND
CT-2	TILES	DALTILE	12X24 VOLUME 1.0	AMPLIFY BLACK VL70	CAFE-VERTICAL, 1/3 RUNNING BOND
FRP-1	PANEL		EMBOSSED	WHITE	JAN. MOP SINKS, KITCHEN
GRT	GROUT	LATICRETE	#78 STERLING SILVER		CAFE, KITCHEN & BATHROOM - 1/8"
MTL-1	METAL SIDING		CORRUGATED METAL SIDING	GALVALIZED 7/8" THICK	PLATFORMS
MTL-2	SHEET METAL		SHEET METAL	22-24 GAUGE GALVANIZED	CAFE
Wall Base/Trim					
B-1	COVE BASE	JOHNSONITE	4"	BLACK	CHECK IN, WAIVER & TECH BAR CASEWORK
B-2	COVE BASE	JOHNSONITE	6"	BLACK	CAFE, KITCHEN & STAIR
QTR-2	QUARTER ROUND	JOHNSONITE	QTR-XX-A	-	BATHROOM
VN-1	NOSING	JOHNSONITE	DTN-40	BLACK	PLATFORM EDGE
VN-2	NOSING	JOHNSONITE	VITSN-40	BLACK WITH 55 INSERT	PLATFORM STAIRS
Transitions					
TR-1	JOHNSONITE REDUCERS - SSR 40 1/8" MATERIAL TO FLOOR	JOHNSONITE	SSR 40	BLACK	ALL LVT TO CONCRETE AND EPOXY TRANSITIONS
TR-2	JOHNSONITE CTA - XX-HT 1/4" TO 3/8" MATERIAL	JOHNSONITE	CTA - XX-HT	BLACK	ALL LVT TO CARPET TRANSITION
TR-3	NOSING	SCHLUTER	SCHIEEN AE80	SATIN ANODIZED ALUMINIUM	BATHROOM WALL TILE TO CONCRETE
Paint					
PT-1	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	WHITE PEGASUS - PPG1010-1	INTERIOR
PT-2	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	GRAY-COOL-CHARCOAL - PPG1157-6	INTERIOR
PT-3	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	URBAN AIR BLACK. FORMULA: BX-12Y	INTERIOR (BASE 6-517)
PT-4	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	BLUE COSMIC DUST - PPG115PPG7-6	INTERIOR
PT-6	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	URBAN AIR YELLOW. FORMULA: DX-4, GX-8Y, WX-1Y8	INTERIOR (BASE 6-517)
PT-7	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	COMMERCIAL WHITE	INTERIOR
PT-8	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	SOLSTICE	INTERIOR
PT-9	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	DYNAMO	INTERIOR
Millwork					
PLM-1	COUNTERTOP	WILSONART		BLACK MATTE 1595-60	ALL CASEWORK
SS-1	COUNTERTOP		MATTE BLACK SOLID SURFACE APPROVED	MATTE BLACK	CAFE & ENTRY POS (ALT)
Flooring					
CON-1	CONCRETE		GRIND LEVEL B	SALT & PEPPER FINISH, GRAY STAIN, DEN	LASER TAG
CON-2	CONCRETE		GRIND LEVEL B	REMOVE (GRIND) SHOT BLAST) TOP 4% MIN.	PREP IN TRACK AREAS - REFER TO AND COORDINATE WITH GO-KART DESIGN
CON-3	CONCRETE		REMOVE (GRIND) SHOT BLAST) TOP 4% MIN.	FUTURE RESIN/ EPOXY PROVIDED BY 360	LASER TAG (if applicable)
CPT-1	CARPET	MILLIKEN	REXIM 2.0 TRIMLINE	BLACKBEAT IN VINYL WITH FRENCH BLUE HOBNAIL PATTERN - CHARCOAL	VESTIBULE
CPT-2	CARPET TILE	VAN GELDER	CHAMPION SUPER NOP. 19.69"19.69"		
EPX-1	EPOXY	SHERWIN WILLIAMS	EPOXY-USE 33 EPOXY PRIMER SEALER AND 650 SLRC	HAZE GREY WITH ARMORSEAL REXTHANE I COATING, HIGH GLOSS	CAFE & KITCHEN, MAIN AREA
LVT-1	VINYL TILE	ARMSTRONG	CUSTOM	LVT: 90% ENGLISH GREY; 5% BLACK TEA; 5% PINK LADY	WOMEN'S BATHROOM
LVT-2	VINYL TILE	ARMSTRONG	CUSTOM	LVT: 60% ENGLISH GREY; 5% BLACK TEA; 5% BLUE HAWAIIAN	MEN'S BATHROOM
LVT-3	VINYL TILE	ARMSTRONG	CUSTOM	ENGLISH GREY	SNAPOLOGY
RBR-1	RUBBER	ECORE	COMMERCIAL 8MM	10% GREEN, PINK & GREY (CUSTOM)	PLATFORMS
SVL-1	SHEET VINYL	POLYFLOR	POLYSAFE STANDARD PUR ALT. FOR SERRA	SILVER BIRCH	CAFE & KITCHEN (ALT)
Ceilings					
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CONFIRM STYLE w/ FRANCHISEE	WHITE	OFFICES, PARTY RM, ETC.
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	VINYL COATED TILES, WHITE GRID	WHITE	CAFE & KITCHEN
GW	GYPSUM CEILING		GYPSUM CEILING	PT-1 u.n.o.	



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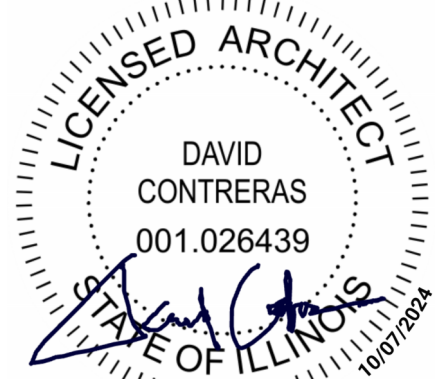
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No.	Description	Date
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PRJL NO: 23-053

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Floor Finish Plan

A111



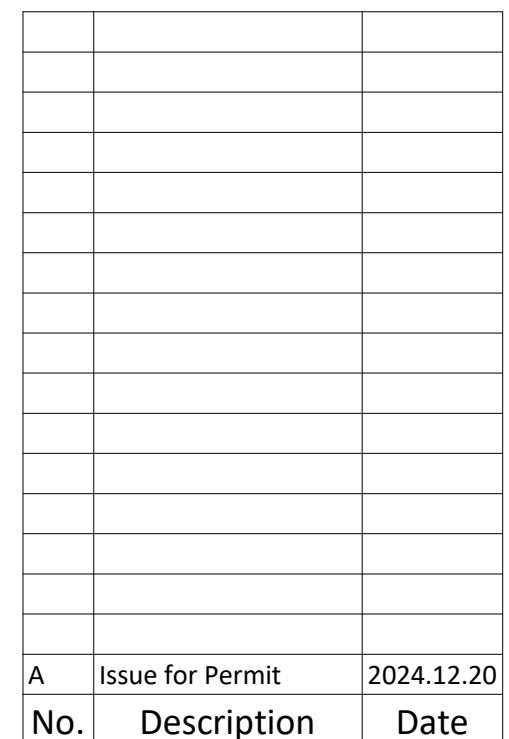
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A111A

TR-3. Refer to Details on Sheet 111

Room #	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
101	Vestibule	LVT-1	-	PT-6	ES
102	Check In Queueing	LVT-1	-	-	ES
103	Check In	LVT-1	-	ES	PT-3
104	Spin Flip	EPX-1	-	-	ES
105	Self Check-In	LVT-1	-	PT-6	ES
106	Attractions Group 01	RPR-1	-	PT-3	ES
107	Attractions Group 02	RPR-1	-	PT-3	ES
108	Attractions Group 03	TBD	-	ES	ES
109	Attractions Group 04	TBD	-	PT-3	ES
110	Ropes Course	CONC-1	-	-	ES
111	Air Court	-	-	-	ES
112	Electrical	EPX-1	-	PT-1	ES
112	Limitless VR	-	-	-	ES
113	Laser Tag	CONC-1	-	PT-3	ES
114	Staging	CPT-1	-	PT-3	ES
115	Control Room	CONC-1	-	PT-1	ACT-1
116	Go Kart	CONC-3	-	PT-3	ES
117	Kart Shop	EPX-1	-	ACT-1	ES
118	Slides	CONC-1	-	-	ES
119	Office	EPX-1	-	PT-1	ACT-1
120	A/V	LVT-1	-	PT-1	ACT-1
121	Party Room 01	EPX-1	B-1	PT-6	ACT-1
122	Party Room 02	LVT-1	B-1	ACT-1	ACT-1
123	Party Room 03	LVT-1	B-1	PT-6	ACT-1
124	Party Room 04	LVT-1	B-1	PT-4	ACT-1
125	Party Room 05	LVT-1	B-1	PT-6	ACT-1
126	Party Room 06	LVT-1	B-1	PT-4	ACT-1
127	Party Room 07	LVT-1	B-1	PT-6	ACT-1
128	Party Room 08	LVT-1	B-1	PT-4	ACT-1
129	Party Room 09	LVT-1	B-1	PT-6	ACT-1
130	Party Room 10	LVT-1	B-1	PT-4	ACT-1
131	Party Room 11	LVT-1	-	PT-6	ACT-1
132	Party Room 12	LVT-1	-	ACT-1	ACT-1
133	Storage	EPX-1	B-1	PT-1	ACT-1
134	Snapology Room 01	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
135	Snapology Room 02	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
136	Snapology Room 03	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
137	Reception Area	EPX-1	-	PT-1	ES
138	Shared Receiving	EPX-1	-	PT-1	ES
139	Tech Bar A	EPX-1	-	PT-6	ES
140	Tech Bar B	EPX-1	-	PT-6	ES
141	Booths Zone 01	EPX-1	-	-	ES
142	Cafe Seating	EPX-1	-	-	ES
143	Party Zone 01	EPX-1	-	-	ES
144	Party Zone 02	EPX-1	-	-	ES
145	Booths Zone 02	EPX-1	-	-	ES
151	Cafe Storage	EPX-1	B-2	PT-1	ACT-1
152	Queueing	LVT-1	-	-	ES
181	Women's RR	LVT-1	QTR-2	PT-2 / CT-1	QWB
182	Men's RR	LVT-2	QTR-2	PT-2 / CT-1	QWB
183	RRR	LVT-2	QTR-2	PT-2 / CT-1	QWB
184	FRR	LVT-1	QTR-2	PT-2 / CT-1	QWB
185	Junior	EPX-1	B-1	PT-2 / CT-1	QWB
191	Cafe	EPX-1	B-2	CT-2	QWB
192	Cafe BOH	EPX-1	B-2	FRP-1	ACT-1

PT-1 is the field color except Laser Tag to be in black (PT-3). Reference Finish Paper for accent walls.

Reference Sections for unique ceiling conditions and heights.

Provide full height FRP at all walls.

Reference Kitchen drawings.

Provide full height FRP behind mop sink.

Provide carpet adhesive for vapor barrier protection.

Apply Sherwin Williams Redthane one (clear) - only to be applied at the exposed concrete floor excluding under platforms, party rooms, cave, BOH or receiving, Utility room and Go Karts Track.

Finish FRP for DRAWINGS ONLY - Go to verify and coordinate all finishes with tenant prior to install.

All millwork, provide shop drawings for: Archited review / approval

Existing exposed structure and ceilings to be painted in White (PT-1), except Laser Tag to be in black (PT-3)

Vendors Contact Info

UA/ Visual Vendors - David Dengel - dadengel@dgdel.com - 814-937-5359

Audio / Posing Materials - Telister (Lumeral) - Patras & Smarts - Courtney Clark and Caroline Bennett - clark@tsmus.com - cbennett@tsmus.com - 512-914-3409

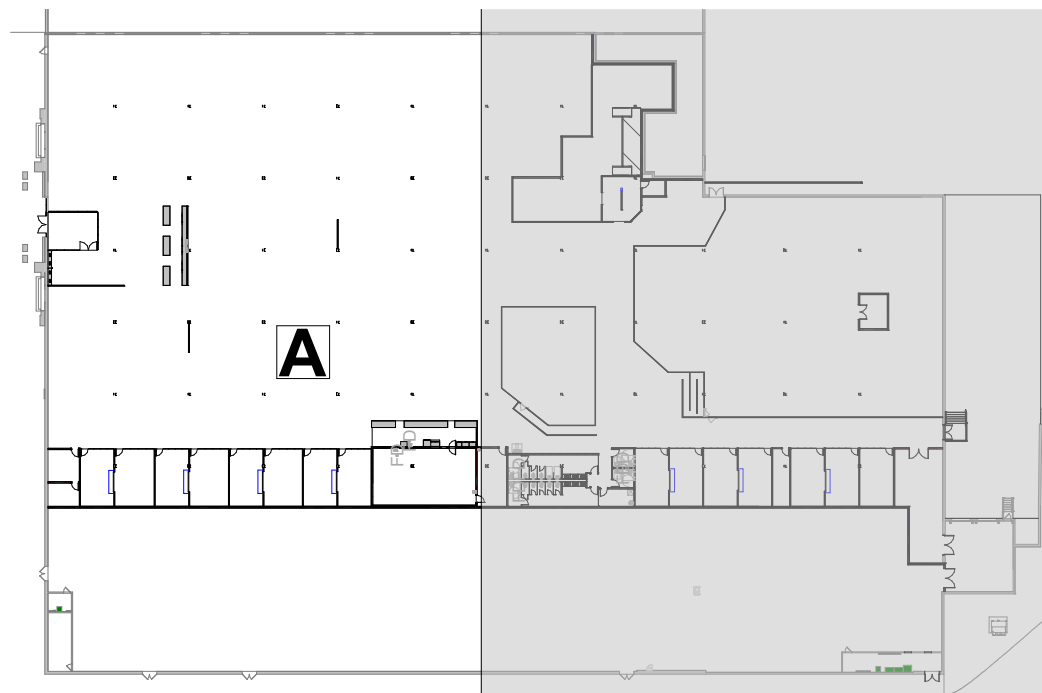
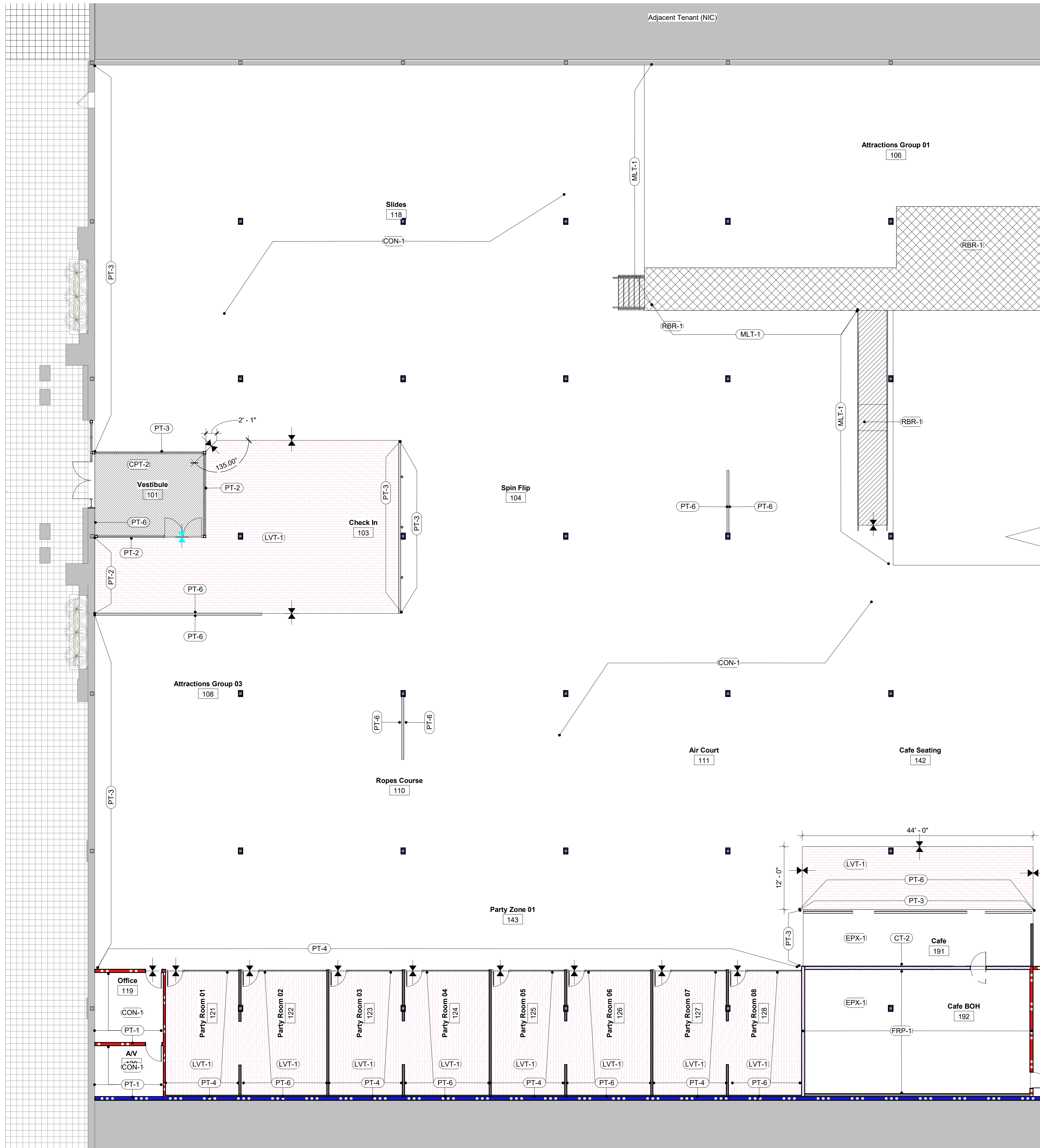
Penn Vender - Christopher Curen - PPG - Christopher.curen@ppg.com - 504-418-5274

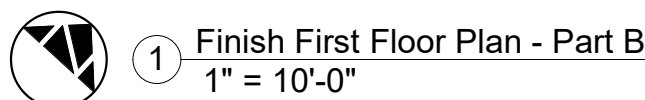
Painting Signage Vendor - D-1 814-431-5700

Lighting Equipment - Concept Services - Blake Calvert - bcalvert@conceptserv.com, 512-343-3100

- 1 Ensure surfaces to receive finished are clean, true and free of irregularities. Do not proceed with work until unsatisfactory conditions have been corrected.
- 2 High substrates may be made prior to final union authorization by Architect.
- 3 All finishes shall be applied in strict accordance with manufacturer's specifications.
- 4 Provide temporary protection for all installed finishes as work progresses.
- 5 Submit samples of finishes for approval prior to installation.
 - a All interior walls to be finished with the same finish as the finish plan and elevations. Interior wall base to be B-1 unless noted otherwise.
- 7 Examine walls to ensure proper preparation before application of paint. Beginning work on preparation of walls.
- 8 All paint shall be applied in accordance with the manufacturer's specifications for that particular surface.
- 9 Paint finish on surfaces including: doors, door frames, guardrails, etc shall be factory finish semi-gloss, unless noted otherwise. If painting over existing paint the surface must be prepared and primed to accept new paint.
- 10 All interior handrails, guardrails and stair stringers to be painted (black).
- 11 All flooring materials shall be installed in accordance with the manufacturer's instructions. Contractor to include all required floor preparation in bid. Provide price to float floor where necessary to achieve tolerance of 1/2" max. in 10' 0" span.
- 12 All flooring materials and wall baseboards shall be at the center of the door. See details for all interior finish material transitions.
- 13 Flooring shall meet all current non-slip standards and requirements (wet and dry conditions) and shall be approved by architect and authority having jurisdiction.
- 14 All exposed concrete to be polished and sealed unless noted otherwise. Refer to finish tag (SC-1) where applicable.
- 15 All exposed and semi exposed surfaces at casework shall receive plastic laminate finish. All exposed surfaces shall be protected until the work is complete. It shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment along both coordinates.
- 16 Refer to section Elevators in the (Sheet H111 A4 series) for vertical finishes and dimensions.

ITEM	NAME	VENDOR	STYLE	COLOR	COMMENTS
Wall Coverings					
CT-1	TILES	DALTILE	12X24 VOLUME 1.0	AMPLIFY BLACK VL70	RESTROOM. HORIZONTAL 1/3 RUNNING BOND
CT-2	TILES	DALTILE	12X24 VOLUME 1.0	AMPLIFY BLACK VL70	CAFE-VERTICAL, 1/3 RUNNING BOND
FRP-1	PANEL		EMBOSSD	WHITE	JAN. MOP SINKS, KITCHEN
GRT	GROUT	LATICRETE		#78 STERLING SILVER	CAFE, KITCHEN & BATHROOM - 1/8"
MT-1	METAL SIDING		CORRUGATED METAL SIDING	GALVALIZED 7/8" THICK	PLATFORMS
MTL-2	SHEET METAL		SHEET METAL	22-24 GAUGE GALVANIZED	CAFE
Wall Base/Trim					
B-1	COVE BASE	JOHNSONITE	4"	BLACK	CHECK IN. WAIVER & TECH BAR CASEWORK
B-2	COVE BASE	JOHNSONITE	6"	BLACK	CAFE, KITCHEN & STAIR
QTR-2	QUARTER ROUND	JOHNSONITE	QTR-XX-A	-	BATHROOM
VN-1	NOSING	JOHNSONITE	DTN-40	BLACK	PLATFORM EDGE
VN-2	NOSING	JOHNSONITE	VITSN-40	BLACK WITH 55 INSERT	PLATFORM STAIRS
Transitions					
TR-1	JOHNSONITE REDUCERS - SSR 40	JOHNSONITE	SSR 40	BLACK	ALL LVT TO CONCRETE AND EPOXY TRANSITIONS
TR-2	JOHNSONITE CTA - XX-HT 1/4" TO 0.80" MATERIAL	JOHNSONITE	CTA - XX-HT	BLACK	ALL LVT TO CARPET TRANSITION
TR-3	NOSING	SCHLUTER	SCHIENE AE80	SATIN ANODIZED ALUMINIUM	BATHROOM WALL TILE TO CONCRETE
Paint					
P-1	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	WHITE PEGASUS - PPG1010-1	INTERIOR
P-2	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	GRAY-COOL-CHARCOAL - PPG1157-B	INTERIOR
P-3	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	URBAN AIR BLACK. FORMULA: BX-12Y	INTERIOR (BASE 6-517)
P-4	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	BLUE COSMIC DUST - PPG15PPG7-6	INTERIOR
P-6	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	URBAN AIR YELLOW. FORMULA: DX-4; GX-SY; WX-1Y6	INTERIOR (BASE 6-517)
P-7	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	COMMERCIAL WHITE	INTERIOR
P-8	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	SOLSTICE	INTERIOR
P-9	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	DYNAMO	INTERIOR
Millwork					
PLM-1	COUNTERTOP	WILSONART		BLACK MATTE 1595-60	ALL CASEWORK
SS-1	COUNTERTOP		MATTE BLACK SOLID SURFACE APPROVED	MATTE BLACK	CAFE & ENTRY POS (ALT)
Flooring					
CON-1	CONCRETE		GRIND LEVEL B	SALT & PEPPER FINISH. GRAY STAIN, DEN	LASER TAG
CON-2	CONCRETE		GRIND LEVEL B	SALT & PEPPER FINISH, GRAY STAIN, CL	
CON-3	CONCRETE		REMOVE (GRIND) SHOT BLAST) TOP 4% MIN.	FUTURE RESIN/ EPOXY PROVIDED BY 360	PREP IN TRACK AREAS - REFER TO AND COORDINATE WITH GO-KART DESIGN
CPT-1	CARPET	MILKEN	REMIX 2.0 TRIMLINE	BLACKBEAT IN VINYL WITH FRENCH BLUE	LASER TAG (if applicable)
CPT-2	CARPET TILE	VAN GELDER	CHAMPION SUPER NOP. '19 89"11.69"	HOBNAI PATTERN - CHARCOAL	VESTIBULE
EPK-1	EPOXY	SHERWIN WILLIAMS	EPOXY-USE 33 EPOXY PRIMER SEALER AND 650 SULO	HAZE GREY WITH ARMORSEAL REXTHANE I COATING, HIGH GLOSS	CAFE & KITCHEN, MAIN AREA
LVT-1	VINYL TILE	ARMSTRONG	CUSTOM	LVT: 90% ENGLISH GREY; 5% BLACK TEA; 5% PINK LADY	WOMEN'S BATHROOM
LVT-2	VINYL TILE	ARMSTRONG	CUSTOM	LVT: 90% ENGLISH GREY; 5% BLACK TEA; 5% BLUE HAWAIIAN	MEN'S BATHROOM
LVT-3	VINYL TILE	ARMSTRONG	CUSTOM	ENGLISH GREY	SNAPALOY
RBR-1	RUBBER	ECORE	COMMERCIAL 6MM	10% GREEN, PINK & GREY (CUSTOM)	PLATFORMS
SVL-1	SHEET VINYL	POLYFLOR	POLYSAFE STANDARD PUR ALT. FOR CERA	SILVER BIRCH	CAFE & KITCHEN (ALT)
Ceilings					
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CONFIRM STYLE w/ FRANCHISEE	WHITE	OFFICES, PARTY RM. ETC.
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	VINYL COATED TILES, WHITE GRID	WHITE	CAFE & KITCHEN
GWB	GYPSUM CEILING		GYPSUM CEILING	PT-1 u.n.o.	





• (PTE-1) Material Tag. Refer to Material Legend

TR-1. Refer to Details on Sheet 111

TR-2. Refer to Details on Sheet 111

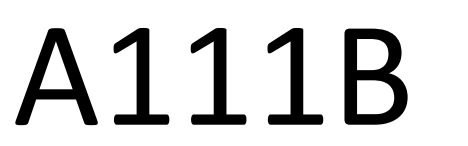
TR-3. Refer to Details on Sheet 111

101	Vestibule	LVT-1	-	PT-6	ES
102	Check in Queueing	LVT-1	-	-	ES
103	Check in	LVT-1	-	PT-3	ES
104	Spin Flip	EPX-1	-	-	ES
105	Self Check-In	LVT-1	-	PT-6	ES
106	Attractions Group 01	RPR-1	-	PT-3	ES
107	Attractions Group 02	RPR-1	-	PT-3	ES
108	Attractions Group 03	TBD	-	PT-3	ES
109	Attractions Group 04	TBD	-	PT-3	ES
110	Ropes Course	CONC-1	-	-	ES
111	Air Court	-	-	-	ES
112	Electrical	EPX-1	-	PT-1	ES
112	Limitless VR	-	-	-	ES
113	Laser Tag	CONC-1	-	PT-3	ES
114	Staging	CPT-1	-	PT-3	ES
115	Control Room	CONC-1	-	PT-1	ACT-1
116	Go Kart	CONC-3	-	PT-3	ES
117	Kart shop	EPX-1	-	PT-1	ACT-1
118	Slides	CONC-1	-	-	ES
119	Office	EPX-1	-	PT-1	ACT-1
120	A/V	EPX-1	-	PT-1	ACT-1
121	Party Room 01	LVT-1	B-1	PT-6	ACT-1
122	Party Room 02	LVT-1	B-1	PT-4	ACT-1
123	Party Room 03	LVT-1	B-1	PT-6	ACT-1
124	Party Room 04	LVT-1	B-1	PT-4	ACT-1
125	Party Room 05	LVT-1	B-1	PT-6	ACT-1
126	Party Room 06	LVT-1	B-1	PT-4	ACT-1
127	Party Room 07	LVT-1	B-1	PT-6	ACT-1
128	Party Room 08	LVT-1	B-1	PT-4	ACT-1
129	Party Room 09	LVT-1	B-1	PT-6	ACT-1
130	Party Room 10	LVT-1	B-1	PT-4	ACT-1
131	Party Room 11	LVT-1	-	PT-6	ACT-1
132	Party Room 12	LVT-1	-	PT-4	ACT-1
133	Storage	EPX-1	B-1	PT-1	ACT-1
134	Snapology Room 01	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
135	Snapology Room 02	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
136	Snapology Room 03	LVT-3	B-1	PT-7/PT-8/PT-9	ACT-1
137	Receiving area	EPX-1	-	-	ES
138	Shared Receiving	EPX-1	-	PT-1	ES
139	Tech Bar A	EPX-1	-	PT-6	ES
140	Tech Bar B	EPX-1	-	PT-6	ES
141	Booths Zone 01	EPX-1	-	-	ES
142	Cafe Seating	EPX-1	-	-	ES
143	Party Zone 01	EPX-1	-	-	ES
144	Party Zone 02	EPX-1	-	-	ES
145	Booths Zone 02	EPX-1	-	-	ES
151	Cafe Storage	EPX-1	B-2	PT-1	ACT-1
152	Queueing	LVT-1	-	-	ES
181	Women's RR	LVT-1	QTR-2	PT-2 / CT-1	QWB
182	Men's RR	LVT-2	QTR-2	PT-2 / CT-1	QWB
183	FRR	LVT-2	QTR-2	PT-2 / CT-1	QWB
184	FRR	LVT-1	QTR-2	PT-2 / CT-1	QWB
185	Waiting area	B-1	PT-1	CT-1	QWB
191	Cafe	EPX-1	B-2	CT-2	QWB
192	Cafe BOH	EPX-1	B-2	FRP-1	ACT-1

Materials Schedule - Interiors						
ITEM	NAME	VENDOR	STYLE	COLOR	COMMENTS	
CT-1	TILES	DALTILE	12X24 VOLUME 1.0	AMPLIFY BLACK VL70	RESTROOM, HORIZ 1/3 RUNNING BOND	
CT-2	TILES	DALTILE	12X24 VOLUME 1.0	AMPLIFY BLACK VL70	CAFE-VERTICAL, 1/3 RUNNING BOND	
FRP-1	PANEL		EMBOSSED	WHITE	JAN. MOP SINKS, KITCHEN	
GRT	GROUT	LATICRETE		#78 STERLING SILVER	CAFE, KITCHEN & BATHROOM - 1/8"	
MTL-1	METAL SIDING		CORRUGATED METAL SIDING	CALVALIZED 7/8" THICK	PLATEFORMS	
MTL-2	SHEET METAL		GAUGE METAL	22-24 GALVANIZED	CAFE	
Wall Base/Trim						
B-1	COVE BASE	JOHNSONITE	4"	BLACK	CHECK IN, WAIVER & TECH BAR CASEWORK	
B-2	COVE BASE	JOHNSONITE	6"	BLACK	CAFE, KITCHEN & STAIR	
QTR-2	QUARTER ROUND	JOHNSONITE	QTR-XX-A	-	BATHROOM	
VN-1	NOSING	JOHNSONITE	DTN-40	BLACK	PLATFORM EDGE	
VN-2	NOSING	JOHNSONITE	VITSN-40	BLACK WITH 55 INSERT	PLATFORM STAIRS	
Transitions						
TR-1	JOHNSONITE REDUCERS- SSR 40 1/8" MATERIAL TO FLOOR	JOHNSONITE	SSR 40	BLACK	ALL LVT TO CONCRETE AND EPOXY TRANSITIONS	
TR-2	JOHNSONITE CTA - XX -HT 1/4" TO 9/8" MATERIAL	JOHNSONITE	CTA - XX -HT	BLACK	ALL LVT TO CARPET TRANSITION	
TR-3	NOSING	SCHLUTER	ISCHIENE AE80	SATIN ANODIZED ALUMINIUM	BATHROOM WALL TILE TO CONCRETE	
Paint						
PT-1	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	WHITE PEGASUS - PPG1010-1	INTERIOR	
PT-2	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	GRAY-COOL-CHARCOAL - PPG1157-6	INTERIOR	
PT-3	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	URBAN AIR BLACK FORMULA: BX-12Y	INTERIOR (BASE 6-517)	
PT-4	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	BLUE COSMIC DUST - PPG115PPG7-6	INTERIOR	
PT-6	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	URBAN AIR YELLOW FORMULA: DX-4, GX-6Y; WX-1Y6	INTERIOR (BASE 6-517)	
PT-7	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	COMMERCIAL WHITE	INTERIOR	
PT-8	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	SOLISTICE	INTERIOR	
PT-9	PAINT	PPG	PPG SPEEDHIDE SEMI-GLOSS	DYNAMO	INTERIOR	
Millwork						
PLM-1	COUNTERTOP	WILSONART		BLACK MATTE 1595-60	ALL CASEWORK	
SS-1	COUNTERTOP		MATTE BLACK SOLID SURFACE APPROVED	MATTE BLACK	CAFE & ENTRY POS (ALT.)	
Flooring						
CON-1	CONCRETE		GRIND LEVEL B	SALT & PEPPER FINISH; GRAY STAIN, DEN	LASER TAG	
CON-2	CONCRETE		GRIND LEVEL B	SALT & PEPPER FINISH; GRAY STAIN, OL		
CON-3	CONCRETE		REMOVE (GRIND/ SHOT BLAST) TOP 4" MIN.	FUTURE RESIN/ EPOXY PROVIDED BY 360	PREP IN TRACK AREAS - REFER TO AND COORDINATE WITH GO-KART DESIGN	
CPT-1	CARPET	MILKEN	REMIX 2.0 TRIMLINE	BLACKBEAT IN VINYL WITH FRENCH BLUE	LASER TAG (if applicable)	
CPT-2	CARPET TILE	VAN GELDER	CHAMPION SUPER NOP. 19.69' 19.69'	HOBNAIL PATTERN - CHARCOAL	VESTIBULE	
EPX-1	EPOXY	SHERWIN WILLIAMS	EPOXY-USE 33 EPOXY PRIMER SEALER AND 650 S/RC	HAZE GREY WITH ARMORSEAL, REXTHANE I COATING, HIGH GLOSS	CAFE & KITCHEN, MAIN AREA	
LVT-1	VINYL TILE	ARMSTRONG	CUSTOM	LVT: 90% ENGLISH GREY; 5% BLACK TEA; 5% PINK LADY	WOMEN'S BATHROOM	
LVT-2	VINYL TILE	ARMSTRONG	CUSTOM	LVT: 90% ENGLISH GREY; 5% BLACK TEA; 5% BLUE HAWAIIAN	MEN'S BATHROOM	
LVT-3	VINYL TILE	ARMSTRONG	CUSTOM	ENGLISH GREY	SNAPLOOPY	
RBR-1	RUBBER	ECORE	COMMERCIAL 8MM	10% BROWN, PINK & GREY (CUSTOM)	PLATFORMS	
SVL-1	SHEET VINYL	POLYFLO	POLYSAFE STANDARD PUR ALT. FOR CERA	SILVER GHIRN	CAFE & KITCHEN (ALT.)	
Ceilings						
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CONFIRM STYLE w/ FRANCHISEE	WHITE	OFFICES, PARTY RM. ETC.	
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	VINYL COATED TILES, WHITE GRID	WHITE	CAFE & KITCHEN	
GWB	GYP SUM CEILING		GYP SUM CEILING	PT-1 u.n.o.		

General Notes - Interiors

- 1 Ensure surfaces to receive finishes are clean, true and free of irregularities. Do not proceed with work until satisfactory conditions have been corrected.
- 2 No finish substitutions may be made without prior written authorization by Architect.
- 3 All finishes shall be applied in strict accordance with manufacturer's specifications.
- 4 Provide temporary protection for all installed finishes as work progresses.
- 5 Submit samples of finishes for approval prior to installation.
- 6 All interior walls to be painted. Do not paint over the existing finish on the finish panels and interior elevations. Interior wall base to be B-1 unless noted otherwise.
- 7 Examine walls to ensure proper preparation before application of paint. Beginning work implies acceptance of condition.
- 8 All paint shall be applied in accordance with the manufacturer's specifications for that particular surface.
- 9 Paint finish on surfaces including doors, door frames, guardrails, etc shall be factory finishes semi-gloss, unless noted otherwise. If painting over existing paint the surface must be prepared and primed to accept new paint.
- 10 All interior handrails, guardrails and stair strings to be painted (black).
- 11 Field verify existing condition of concrete subfloors receiving new finish. Contractor to include in floor preparation and repair. Provide price to float floor where necessary to achieve tolerance of 1/2" max. in 10'-0" span.
- 12 All flooring transitions between rooms shall be at the center of the door. See details for all interior finish material transitions.
- 13 Flooring must meet all current non-slip standards and requirements (wet and dry conditions specified in applicable codes and/or authorities).
- 14 All exposed concrete to be polished and sealed unless noted otherwise. Refer to finish tag (SC-1) where applicable.
- 15 All exposed and semi exposed substrates at casework shall receive plastic laminate finish.
- 16 All workmanship shall be of the best quality. When the work is complete, it shall be free from buckles, bubbles, open joints or imperfections. Seams shall be kept in accurate alignment with vertical coordinates.
- 17 Refer to the Interior Elevations in the (Sheet A111 and A4 series) for vertical finishes and dimensions.





The diagram illustrates a suspended ceiling grid with various components and their typical dimensions. The dimensions are indicated by arrows and labels:

- EQ**: Typical dimension for the grid squares, shown both horizontally and vertically.
- Typical Ceiling Grid**: Points to the grid structure.
- Automatic fire sprinkler head, smoke detector or other devices**: Points to a circular device mounted on the grid.
- Recessed Light Fixture**: Points to a square light fixture mounted on the grid.
- Diffuser or Grille**: Points to a square diffuser or grille mounted on the grid.

Technical drawing of a wall assembly showing a cross-section of a partition wall. The wall is 9'-11" high and 5" thick. It consists of a metal stud framing (ref. A109) with a hanger wire. The wall is covered with 5/8" gypsum board. The ceiling is acoustic ceiling as scheduled. The drawing includes dimensions and labels for the various components.

- Metal stud framing, ref. A109
- Hanger wire
- 5/8" Gypsum board
- Acoustic ceiling as scheduled

Page 275 of 352

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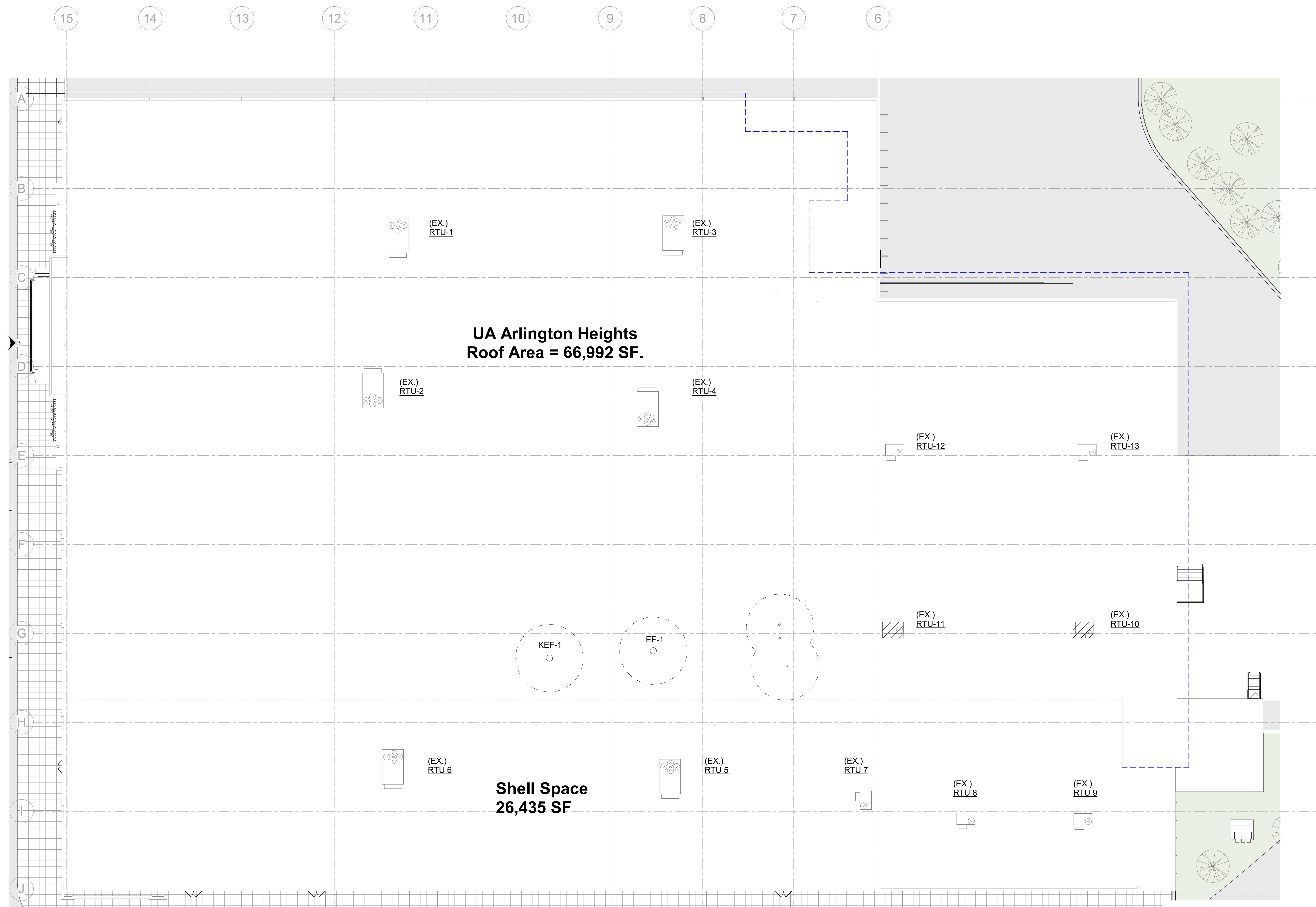
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Roof Plan

A141



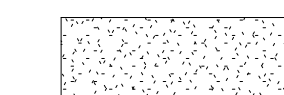
General Notes - Roof Plan

- 1 All work to be performed in strict accordance with the roofing manufacturer's recommendations. Review specifications.
- 2 Verify that all areas are provided with positive drainage at 1/4" per foot minimum.
- 3 All crickets/fleashing to have a slope of 1/2" per foot minimum.
- 4 Provide crickets/fleashing at all roof corners and roof openings.
- 5 All cap flashing corner shall be welded.
- 6 Refer to mechanical, plumbing and electrical for locations of locations of piping, curbs, vents, ducts, fans and other items on the roof surface.
- 7 Verify sizes and locations of all openings, platforms, etc. with respective contractors.
- 8 Do not generate parapet wall caps.
- 9 Provide roof jacks at all exposed roof penetrations.
- 10 All wall mounted and rooftop mechanical equipment will need to be screened from the public right-of-way/street view.
- 11 Existing downspouts shall remain
- 12 New roof cricket provide positive slope to existing roof
- 13 Existing roofing material shall be removed to allow for new RTU (Typ.)
- 14 New metal roof deck at existing openings. Attach pre single deck institute standards. Field verify location. Provide new steel Py Roofing & girt insulation to match existing

Legend - Roof Plan



Class "A" TPO Membrane Roofing system
-Refer to specification



Roof Cricket - Rigid Tape Insulation

Slope

Slope for 1/4" per foot minimum
flow to drain unless noted otherwise



Downspout, Roof Drain and Overflow Drain
-Refer to detail on sheet A301

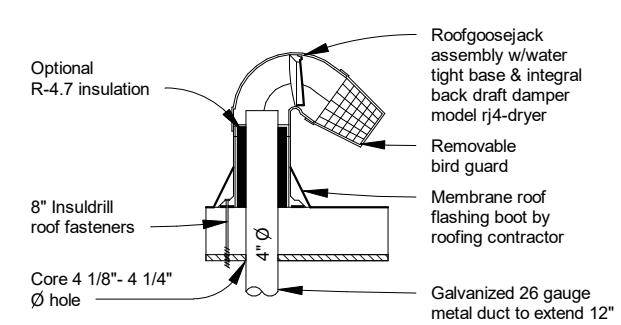
Existing RTU Mechanical Equipment
-Ref. Mechanical

REFER TO MEP DRAWINGS REGARDING ALL MECHANICAL
EQUIPMENT, PLUMBING FIXTURES, DUCTWORK & PIPING.

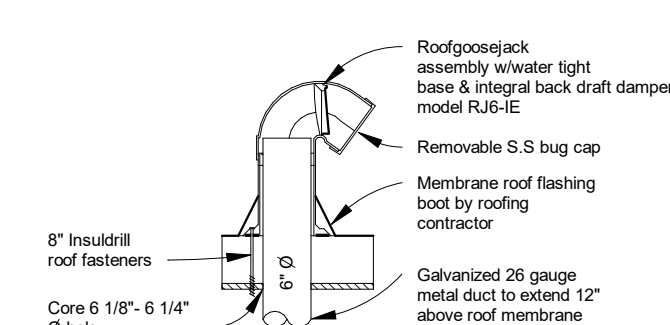
Keynotes



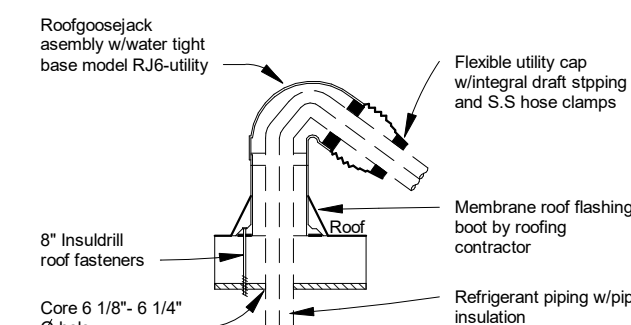
- 1 Roof plan
1/16" = 1'-0"



- ② A141 - Roof Goose Jack A
1/2" = 1'-0"



- 3 A141 - Roof Goose Jack B
1/2" = 1'-0"



- ④ A141 - Roof Goose Jack C
1/2" = 1'-0"



Notes - Attractions

- 1 This plan is shown for reference and should be coordinated with the attractions vendor for size, layout and adjustments needed due to unforeseen conditions.
- 2 Dimensions shown may vary and the final attractions package should be coordinated with the vendor.
- 3 Shaded/ hatched areas are for general platform locations of rubber floor over FRT plywood to detail on over the attractions vendor supplied platform frame. Refer to details on A202 and material schedule for additional information.
- 4 Provide FRT (fire retardant treated) blocking for handrail connections to deck as required.
- 5 Provide galvanized corrugated metal panel (horizontal) over FRT plywood to all vertical surfaces exposed to the public.
- 6 Coordinate with the attractions vendor for any platform specific requirements.
- 7 Coordinate all electrical/ data requirements directly with attraction vendor prior to installation. The electrical contractor is responsible for all pre and post attraction installs and final connection of all attraction equipment. Refer to the electrical vendor for more details.
- 8 The padded wrap protection provided by the attractions vendor should be coordinated with the final column footprint which may be a gypsum/frame/SPR form (resistant material), or a gypsum frame or an exposed bare structural column.
- 9 Stairs and ramps need to meet all applicable building code requirements and accessibility guidelines.
- 10 Field verify the existing structural systems directly above the climbing walls and along the path of travel for the skydiver. Contact the structural engineer of record for the existing member and connection details. It may be necessary so that the engineer can engineer support details for attraction connections. Provide an allowance for the engineer to travel to the site, rent the scissor lift and take these measurements.

Keynotes

136	Gate
350	Raised Platform - Stairs (NIC)
351	Raised Platform - Ramp (NIC)
352	Raised Platform - Railing (NIC)
353	Raised Platform - 3'-0"H Platform Frame (NIC)
354	Raised Platform - 5'-0"H Platform Frame (NIC)

Note:
Attractions shown on the Attractions Plan are provided by the fabricator vendor and are considered FFE (furnishings, fixtures or equipment) and are installed by a third party subcontractor. This work is outside of the general contractor scope except where there is a partial overlap of work as shown on these plans. The architect of record and engineering consultants are not responsible for the structural integrity, fabrication details and installation methods associated with the owner purchased Attractions package. Consult with the design or development team for means, methods, procedures, techniques and sequence related to the Attractions shown on the Attractions Plan.

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A	Issue for Permit	2024.12.2
No.	Description	Date
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CHECKED BY: BA		
PROJ. NO: 23-053		
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Attractions Plan

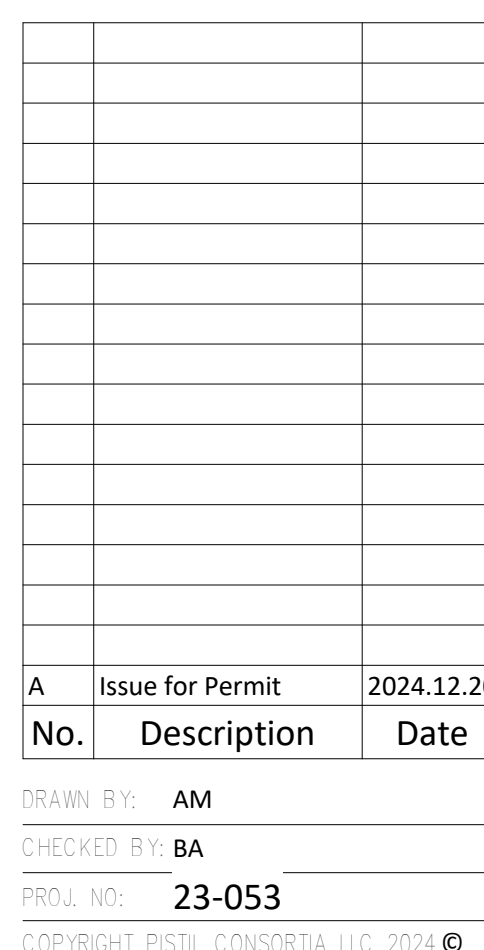
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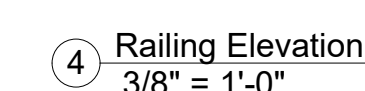
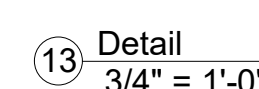
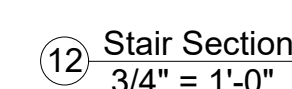
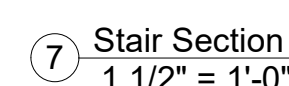
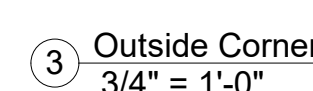
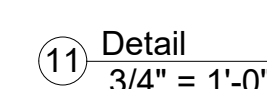
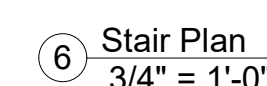
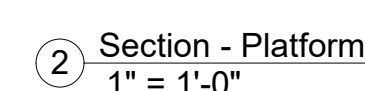
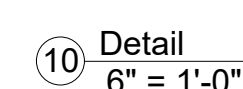
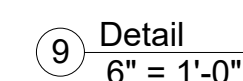
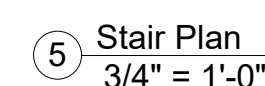
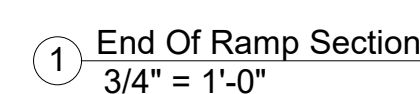
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A202





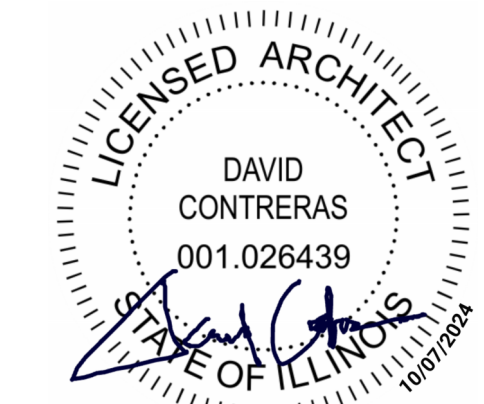
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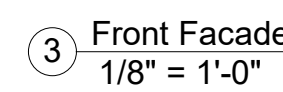


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Exterior Elevations

A301



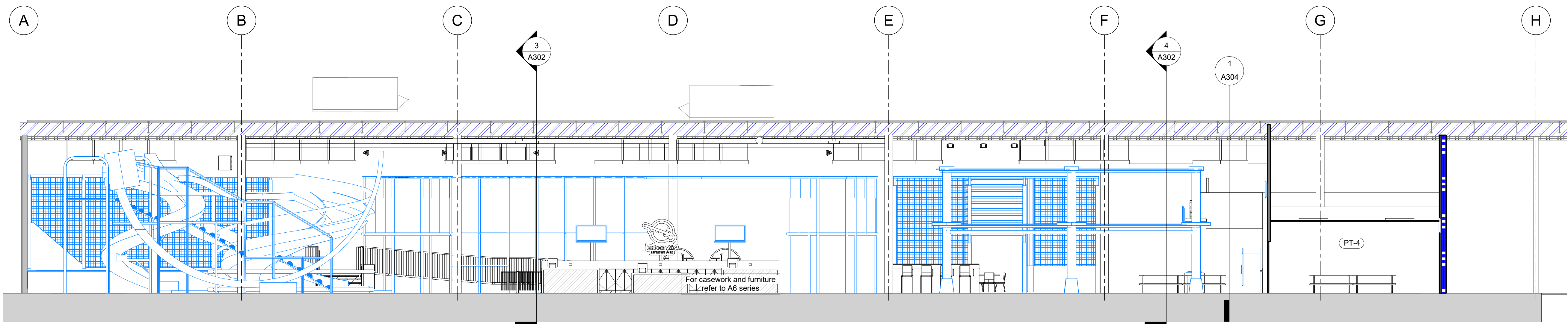
- 1 All exterior materials have been approved by the city per the Official Master Development for the Westminster Promenade West Subdivision 3rd Plat. Refer to the Exterior Finish schedule below. There are no acceptable substitutions.
- 2 All dimensions to face of finish unless noted otherwise.
- 3 Paint all exposed gas lines with black semi-gloss.
- 4 Paint all exposed surfaces of trim including edges.

• PTE-1	Material Tag - Refer to Finish Schedule
101	Door Tag - Sheet A501
TA-01	Toilet Accessory Tag - Sheet A103
?	Keynote Tag

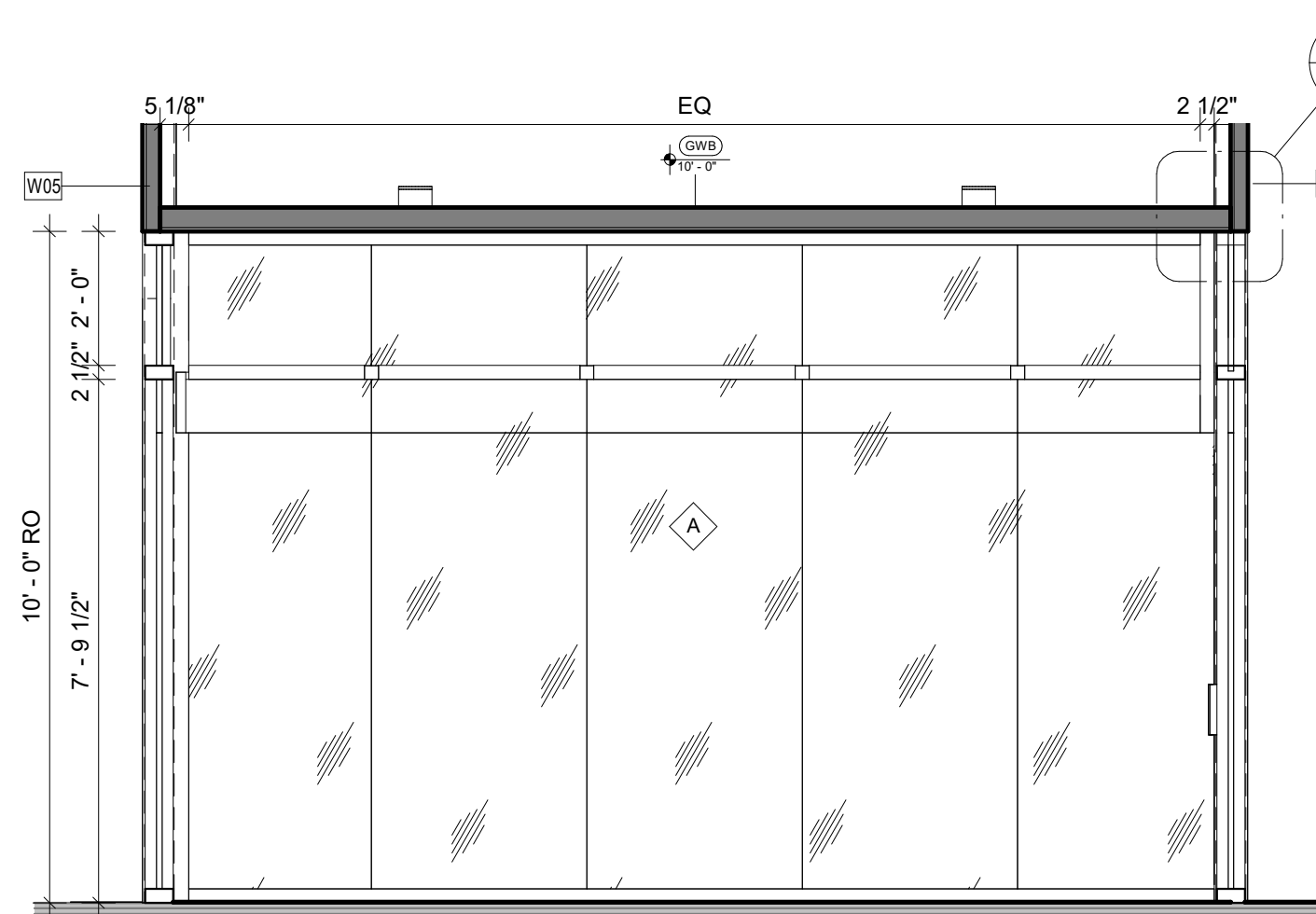
Item	Material	Manufacturer	Color
PT-1	Paint	PPG	White Pegasus 1010-1 / 663 C
PT-2	Paint	PPG	Cool Charcoal 1007-6 / 416 C
PT-3	Paint	PPG	Urban Air Black / Black 6 C
PT-4	Paint	PPG	Cosmic Dust 1157 C / 2150 C
PT-6	Paint	PPG	Urban Air Yellow 1157-6 / 388 C

PT-4
PPG: Cosmic Dust (1157-6)
Pantone: 2150 C (Best Match)
RGB: 50, 110, 153

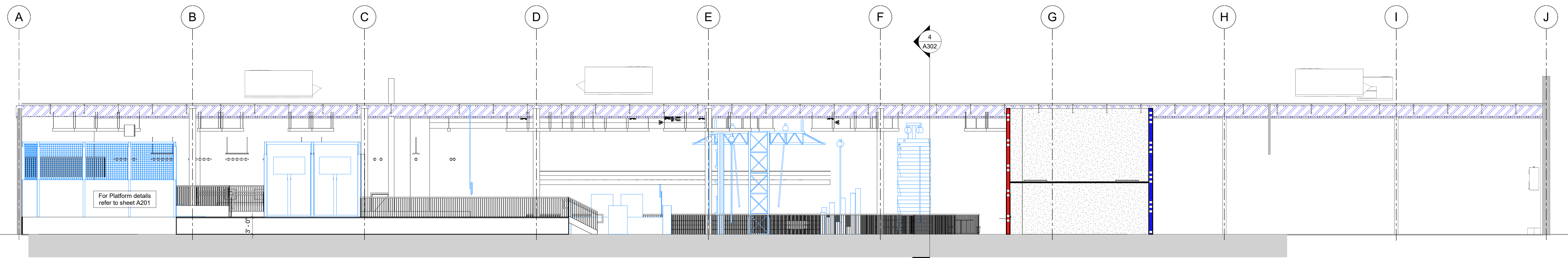
PT-6
PPG: Urban Air Lime Green (1157-6)
Pantone: 388 C (Best Match)
RGB: 233, 226, 42



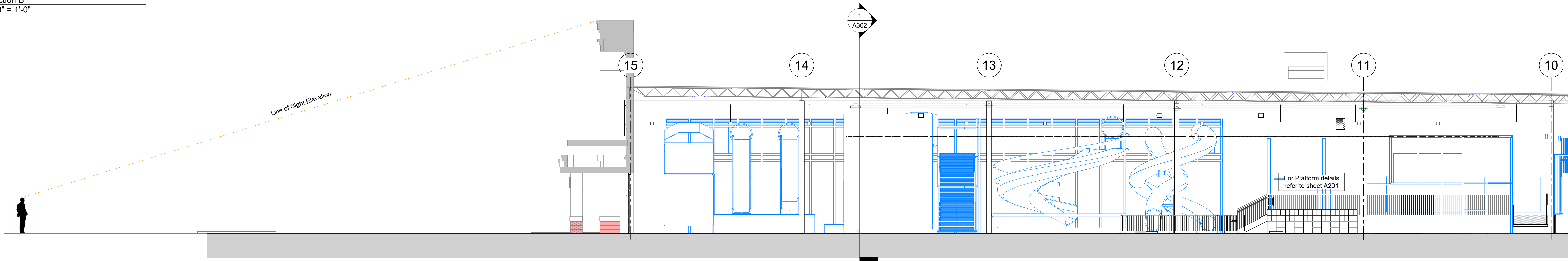
1 Section A
1/8" = 1'-0"



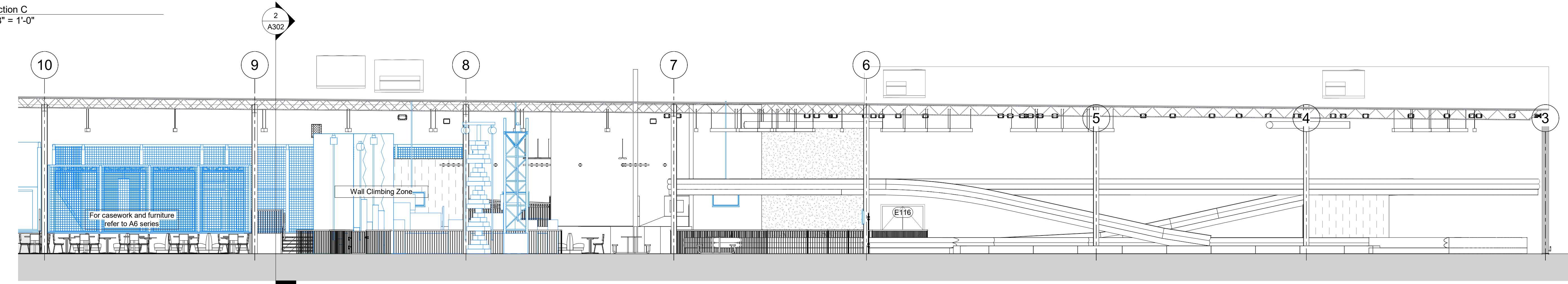
5 Vestibule Section
3/8" = 1'-0"



2 Section B
1/8" = 1'-0"

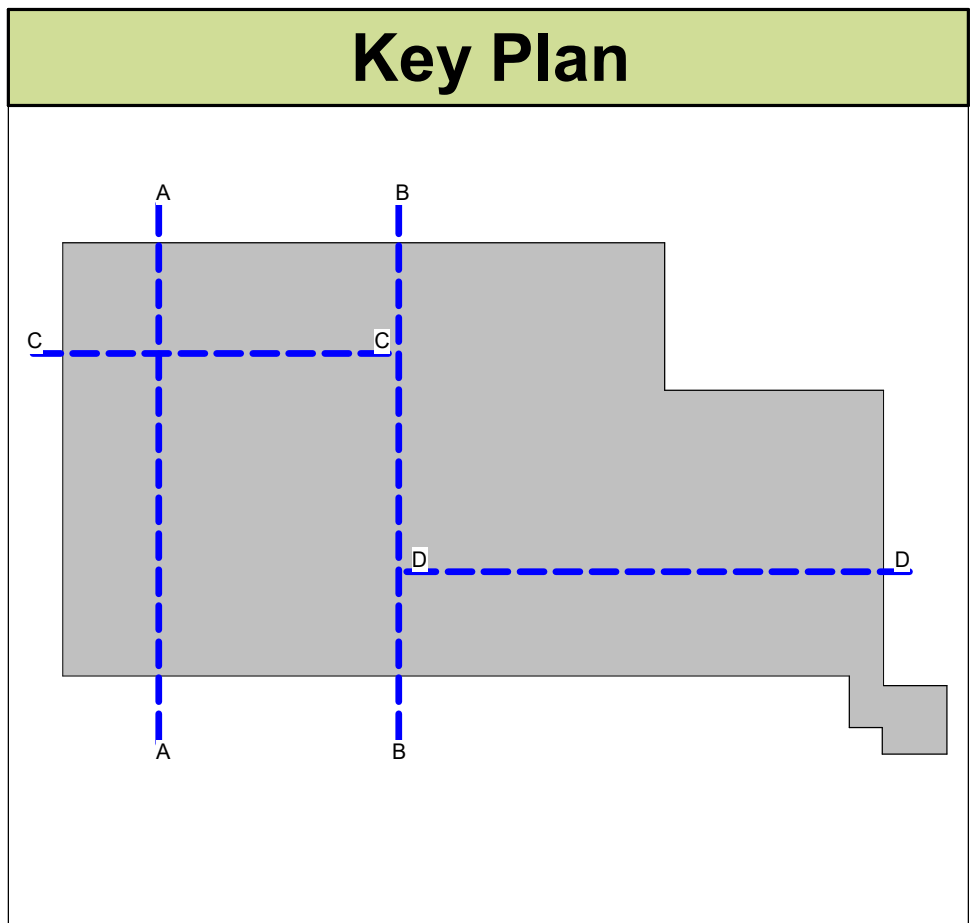


3 Section C
1/8" = 1'-0"



4 Section D
1/8" = 1'-0"

Legend - Elevations	
(PTE-1)	Material Tag - Refer to Finish Schedule
(101)	Door Tag - Sheet A501
(TA-01)	Toilet Accessory Tag - Sheet A103
?	Keynote Tag



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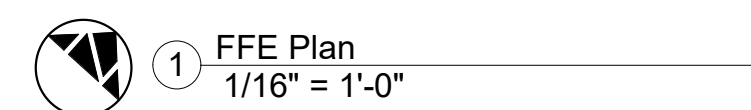
Construction Management:
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Building Sections

A302





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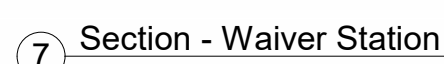
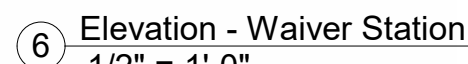
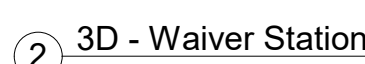
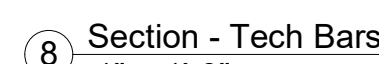
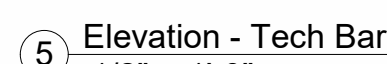
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Casework - Miscellaneous

A603





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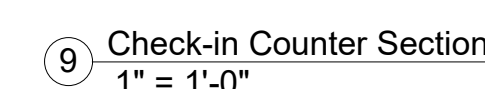
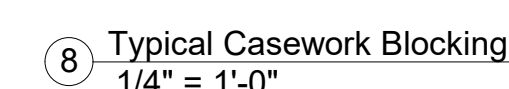
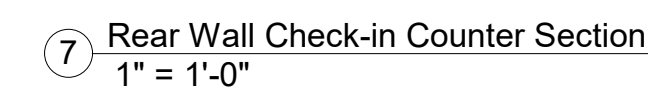
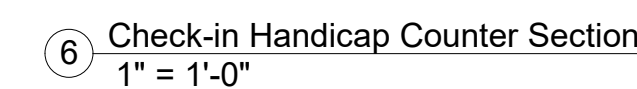
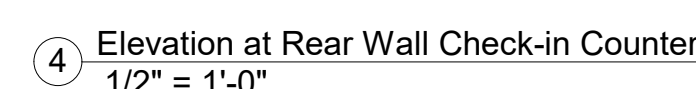
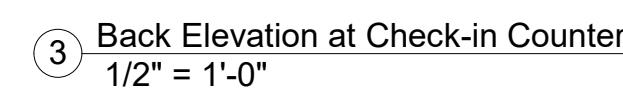
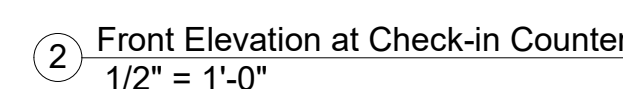
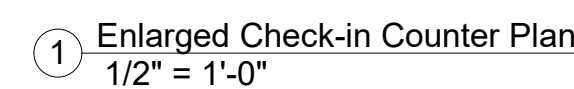
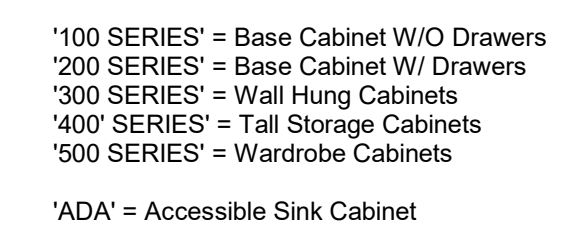
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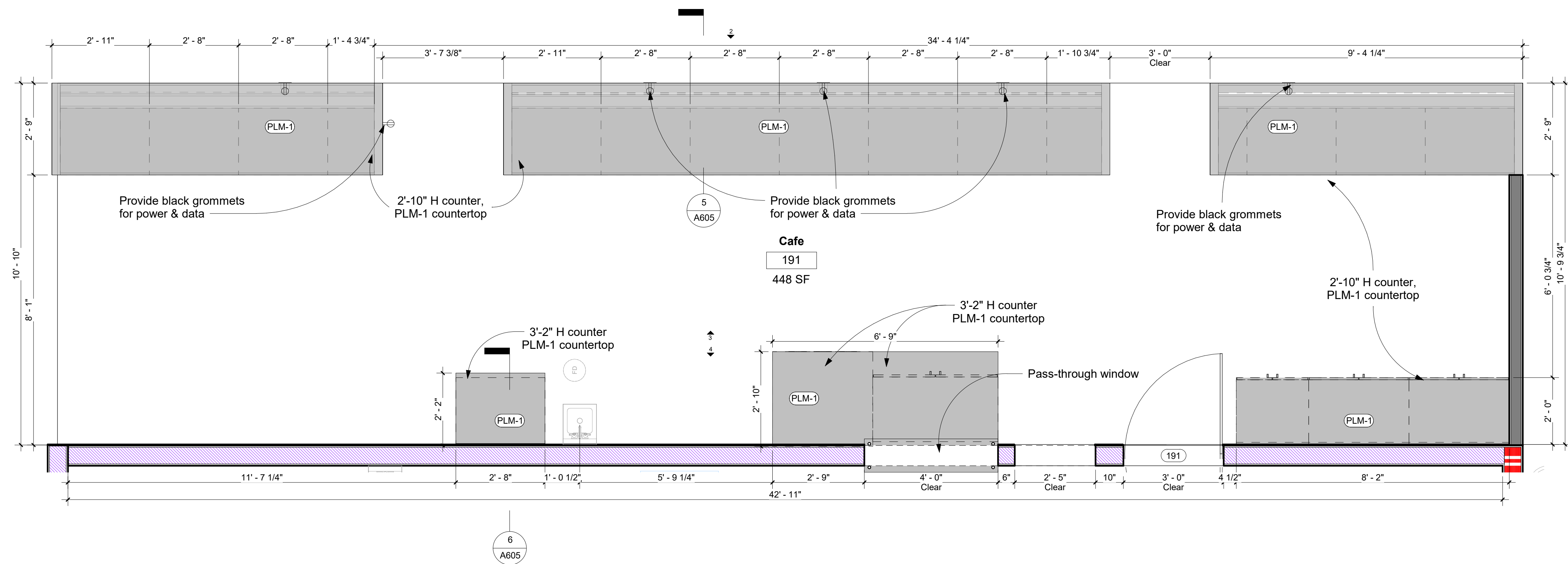
Details - Casework

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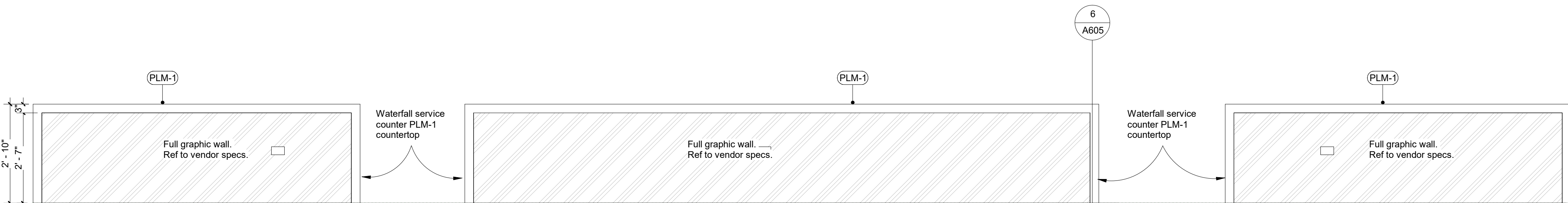
- 1 WWI = Wood Work Institute. All casework design will follow the WWI design standards unless noted otherwise.
- 2 Typical height for all base cabinets is 34" to finish counter top unless noted otherwise. Refer to the interior elevations in the (A4 series) for height information.
- 3 Typical backsplash height is 4" at all counter tops unless noted otherwise. Scribe to wall.
- 4 Provide wall backing and anchor cabinet.
- 5 Typical facing for cabinets and counters is plastic laminate unless noted otherwise.
- 6 For specific interior finish information refer to the interior elevations in the (series) and finish schedule on sheet (A110).

Cabinet Design Series (CDS)

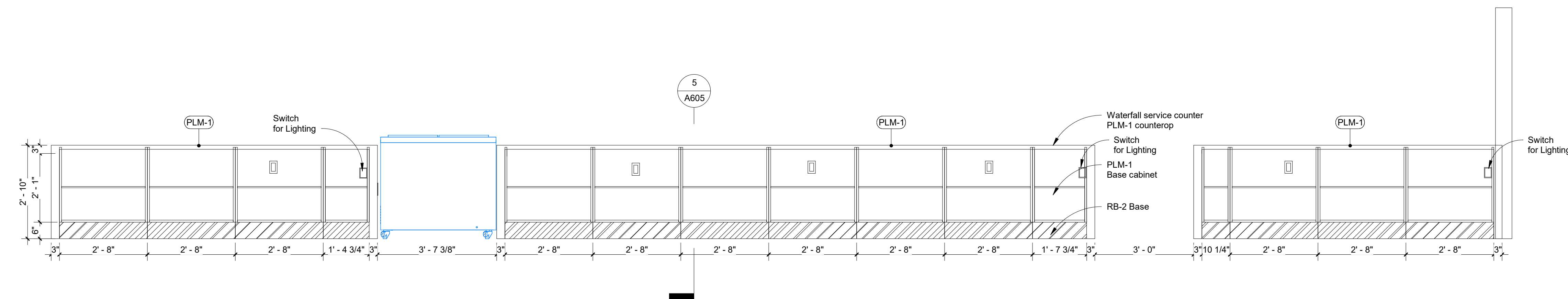




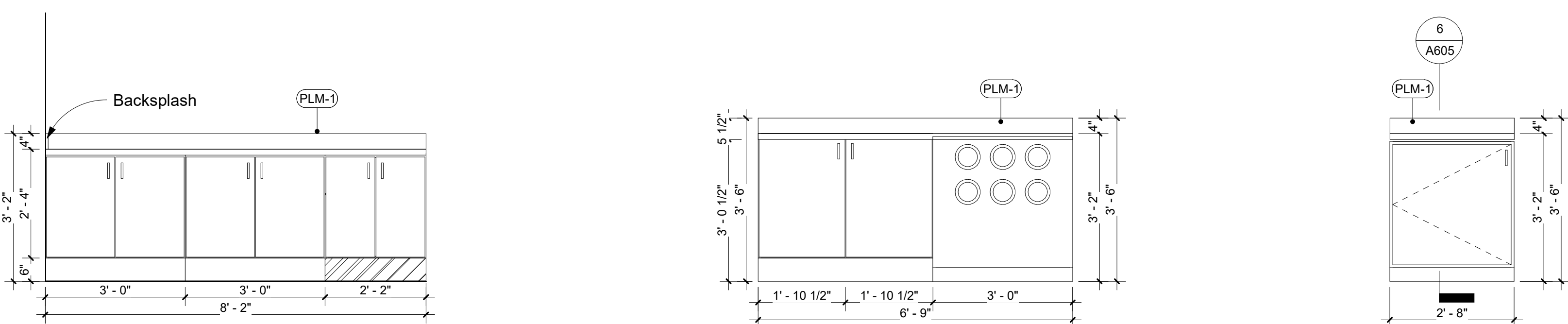
1 Enlarged Plan - Cafe - Callout 1
1/2" = 1'-0"



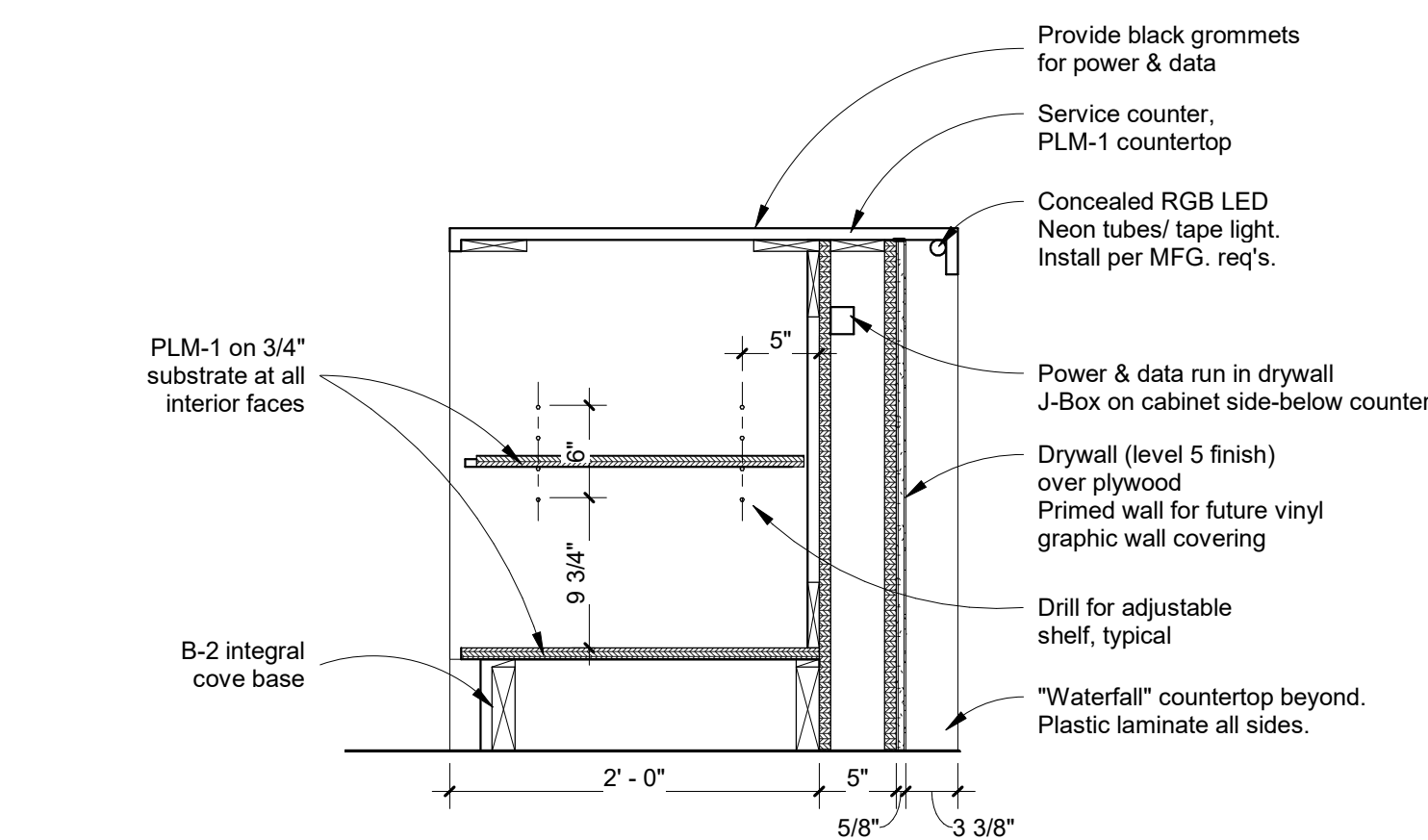
2 Elevation 2 - a
1/2" = 1'-0"



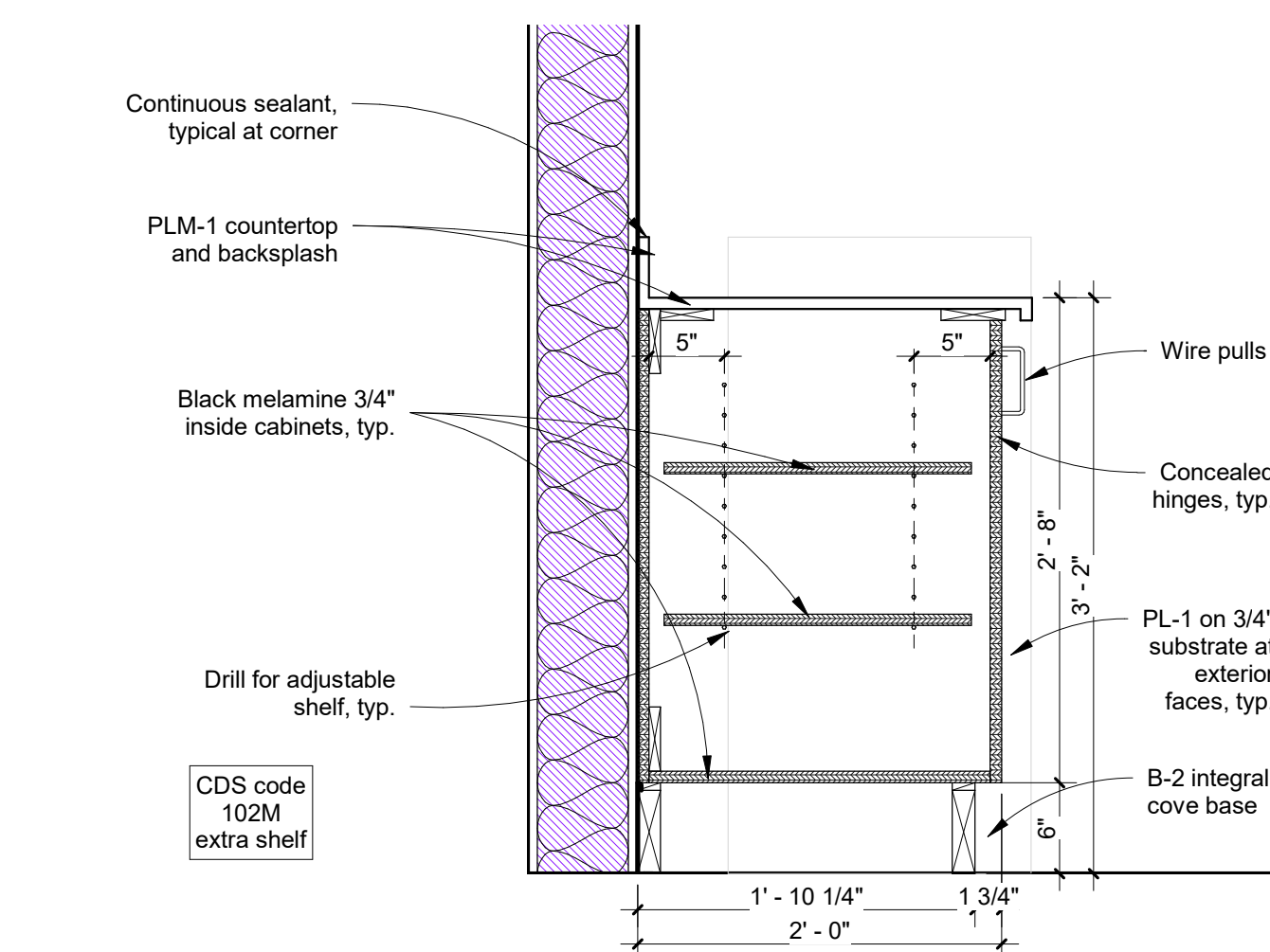
3 Elevation 1 - c
1/2" = 1'-0"



4 Elevation 1 - a
1/2" = 1'-0"



5 Cafe Service Counter Section
1" = 1'-0"



6 Cafe Rear Counter Section
1" = 1'-0"

General Notes - Casework

- 1 WWI = Wood Work Institute. All casework design will follow the WWI design standards unless noted otherwise.
- 2 Typical height for all base cabinets is 34" to finish counter top unless noted otherwise. Refer to the interior elevations in the (A4 series) for height information.
- 3 Typical backsplash height is 4" at all counter tops unless noted otherwise. Scribe to wall.
- 4 Provide wall backing and anchor cabinet.
- 5 Typical facing for cabinets and counters is plastic laminate unless noted otherwise.
- 6 For specific interior finish information refer to the interior elevations in the (A4 series) and finish schedule on sheet (A110).

Legend - Interior Elevations

- (PTE-1) Material Tag - Refer to Finish Schedule A111
- (101) Door Tag - Sheet A501
- △ (TA-XX) Toilet Accessory Tag - Sheet A103



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Details - Cafe Casework

A605

ARLINGTON HEIGHTS, IL NOTE:
THIS PROJECT IS A TENANT FINISHOUT OF AN EXISTING RETAIL SPACE SINGLE STORY RETAIL STRIP CENTER THAT WAS FORMERLY A BURLINGTON.

ARLINGTON HEIGHTS, IL NOTE:
THE GENERAL CONTRACTOR SHALL PROVIDE A COMPLETE URBAN AIR EXERCISE AND ENTERTAINMENT FACILITY. THIS INCLUDES ANY ITEMS REQUIRED BY THE LOCAL INSPECTORS NOT INCLUDED IN THE DOCUMENT SET. THIS DOCUMENT SET SHALL BE USED IN CONJUNCTION WITH THE OWNER'S BRAND STANDARDS, VENDOR INSTALLATION INSTRUCTIONS AND OWNER'S GUIDANCE AS DIRECTIVE TO COMPLETE THE PROJECT.

ARLINGTON HEIGHTS, IL NOTE:
VERIFY THAT ALL JOINTS CONNECTING TO EXISTING PLUMBING LINES MEET CURRENT STANDARDS AND ARE ADEQUATE TO HANDLE THE PRESSURE.

BASE BID TO ASSUME THAT THE JURISDICTION REQUIRES CONTAINMENT BACK FLOW PREVENTION. P.C. SHALL CONFIRM WITH PLUMBING INSPECTOR IF BUILDING HAS MAIN RPZBFP AND DOES NOT REQUIRE ADDITIONAL BFP IN SPACE. THEN THE PLUMBER MAY OMIT BFP. IF JURISDICTION REQUIRES ISOLATION BFP, THE PLUMBING CONTRACTOR SHALL PROVIDE A POINT OF USE BFP AT REQUIRED FIXTURES AS APPLICABLE/AS REQUIRED AND ELSEWHERE AS DETERMINED BY THE PLUMBING INSPECTOR.

ARLINGTON HEIGHTS, IL NOTE:
THE LEASE DATED 6/4/24 STATES THAT THE SPACE WILL BE TURNED OVER IN AS-IS CONDITION.

ARTICLE 3 OF THE LEASE STATES THAT "LANDLORD WILL DELIVER BUILDING SYSTEMS INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, AND HVAC SYSTEMS IN GOOD WORKING ORDER."

CONTRACTOR SHALL VERIFY ALL SYSTEMS HAVE BEEN DELIVERED IN GOOD WORKING ORDER PRIOR TO BEGINNING WORK.

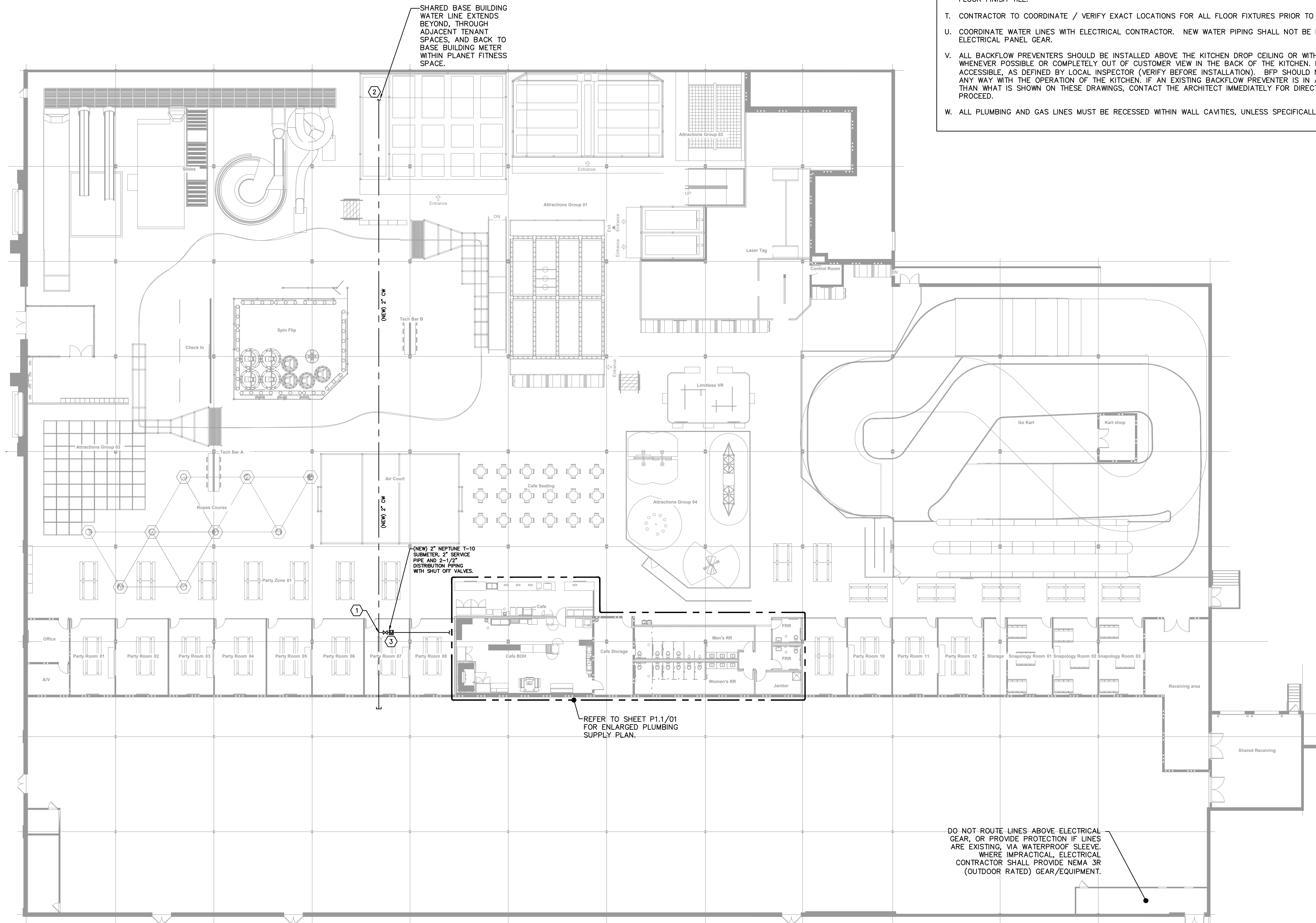
ARLINGTON HEIGHTS, IL NOTE:
ALL PLUMBING WORK SHALL COMPLY WITH 2014 ILLINOIS PLUMBING CODE AND 2021 ILLINOIS ENERGY CONSERVATION CODE.

- KEY NOTES BY SYMBOL '(#)'
- POINT OF CONNECTION (DIAGRAMMATIC) TO 2" DOMESTIC BASE BUILDING WATER LINE. VERIFY POINT OF CONNECTION AND SIZE IN FIELD. FROM POINT OF CONNECTION, ROUTE 2-1/2" C.W. PIPING ABOVE CEILING/THROUGH JOIST SPACE AS NECESSARY.
 - APPROXIMATE LOCATION OF BASE BUILDING CW MAIN ENTERING TENANT SPACE. CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION OF CW MAIN IN FIELD. MINIMUM ACCEPTABLE SERVICE PIPE SIZE IS 2". WHERE BASE BUILDING CW MAIN IS LESS THAN 2" DIAMETER, PRIOR TO ENTERING TENANT SPACE AND/OR WITHIN TENANT SPACE, THE BASE BUILDING CW MAIN SHALL BE UPSIZED TO 2" BACK TO BASE BUILDING WATER METER. COORDINATE CONSTRUCTION PHASING FOR UPSIZE IN ADJACENT TENANT SPACES WITH LANDLORD.
 - PROVIDE NEW 2" WATER SUB-METER AND SHUT OFF VALVE. COORDINATE WITH LANDLORD FOR SPECIFIC SUB-METER MODEL WHERE REQUIRED. OTHERWISE, PROVIDE NEPTUNE E-CODER METER WITH ELECTRONIC OUTREADER (REMOTE READOUT REGISTER). VERIFY WITH OWNER'S REP FINAL PLACEMENT OF REMOTE READ OUT. OMIT IF WATER IS INCLUDED IN CAM CHARGE. VERIFY EXACT SIZE, ROUTING, DELIVERY PRESSURE, AND WATER METER/SUB-METER INSTALLATION REQUIREMENTS WITH LANDLORD AND LOCAL WATER UTILITY COMPANY PRIOR TO ANY WORK.

PLUMBING LEGEND

- HW HOT WATER SUPPLY LINE
- CW COLD WATER SUPPLY LINE
- Y" SAN SANITARY WASTE LINE
- PIPE DROP
- RISER VENT (DASHED)
- TRAP PRIMER
- CONTINUATION
- END CAP
- ISOLATION / SHUT-OFF VALVE
- EXTENT OF SAWCUTTING/ TRENCHING
- WATER SUBMETER, BETWEEN VALVE AND 1ST FIXTURE.
- REMOTE READOUT FOR SUBMETER, +54" VERIFY LOCATION WITH OWNER'S REP.
- CONNECTION OF NEW TO EXISTING.
- RPZ REDUCED PRESSURE ZONE BACK FLOW ASSEMBLY.
- CHECK VALVE
- RECIRCULATION PUMP.
- WCO WALL CLEAN OUT
- FCO FLOOR CLEAN OUT
- VTR VENT THRU ROOF
- (EX) EXISTING PIPING
- X"V VENT

- PLUMBING NOTES
- HOT AND COLD WATER PIPING SHALL BE NEW UP TO THE CONNECTION TO THE EXISTING COLD WATER MAIN LINE.
 - CONTRACTOR SHALL FURNISH AND INSTALL HANGER SUPPORTS AND ACCESSORIES REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE PLUMBING SYSTEM AS REQUIRED BY CODE.
 - CONTRACTOR SHALL FURNISH AND INSTALL SHUT-OFF VALVES AT HOT AND COLD WATER CONNECTIONS.
 - THE CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH EXISTING FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED.
 - HOT AND COLD WATER PIPING AND INSTALLATION SHALL COMPLY WITH LOCAL CODE REQUIREMENTS.
 - HOT AND COLD WATER PIPING AND INSTALLATION SHALL BE TESTED, INSPECTED AND APPROVED BEFORE BEING COVERED AND CONCEALED AS REQUIRED.
 - CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY FITTINGS FOR THE CONNECTION OF THE NEW EQUIPMENT AND FIXTURES INCLUDING VACUUM BREAKERS AND BACK FLOW PREVENTERS AS REQUIRED BY CODE.
 - COLD, HOT, AND TEMPERED WATER PIPING SHALL BE INSULATED.
 - CONDENSATE AND OVERFLOW PIPING SHALL BE INSULATED.
 - INTERIOR OR PERIMETER STRUCTURAL GRADE BEAMS MAY NOT BE CUT, IF PRESENT.
 - WATER LINES IN EXTERIOR BUILDING WALLS SHALL BE ON WARM (CONDITIONED) SIDE OF BUILDING INSULATION. ALL PIPING SHALL BE CONCEALED FROM VIEW.
 - HEAT TRACE ALL PIPING IN EXTERIOR WALLS, AND AREAS SUBJECT TO FREEZING CONDITIONS.
 - FURR OUT WALLS FOR ELECTRICAL AND PLUMBING AS NEEDED, OR AS REQUIRED BY LANDLORD FOR ELECTRICAL AND PLUMBING CONNECTIONS.
 - PROVIDE ADDITIONAL CUTOFFS ABOVE CEILING IF REQUIRED BY LOCAL CODE.
 - IF DESIGN CALLS FOR NEW FLOOR DRAIN IN A RESTROOM THAT IS EXISTING AND DOES NOT HAVE A DRAIN AND IS NOT REQUIRED BY A.H.J. TO HAVE A FLOOR DRAIN, THEN THE PLUMBER CAN SKIP INSTALLING IT IN THAT ROOM.
 - BASE BID TO ASSUME THAT THE JURISDICTION REQUIRES CONTAINMENT BACK FLOW PREVENTION. P.C. SHALL CONFIRM WITH PLUMBING INSPECTOR IF BUILDING HAS MAIN RPZBFP AND DOES NOT REQUIRE ADDITIONAL BFP IN SPACE. THE PLUMBER MAY OMIT BFP. IF JURISDICTION REQUIRES ISOLATION BFP, THE PLUMBING CONTRACTOR SHALL PROVIDE A POINT OF USE BFP AT THE FIXTURES AS APPLICABLE/AS REQUIRED AND ELSEWHERE AS DETERMINED BY THE PLUMBING INSPECTOR.
 - WHERE NEW BELOW SLAB PLUMBING MODIFICATIONS ARE PROPOSED, TENANT SHALL REPLACE ANY BASE MATERIAL AND COMPACT TO MATCH EXISTING. MATCH FLOOR SLAB THICKNESS AND FINISH WITH 3,000 PSI CONCRETE. - TENANT SHALL FIRST DO TEST DEMOLITION OF SLAB OF NO MORE THAN 5 SF TO CONFIRM THAT THE EXISTING SLAB CONDITION IS NOT A STRUCTURAL SLAB. IF THE EXISTING SLAB CONDITION IS A STRUCTURAL SLAB, TENANT SHALL IMMEDIATELY STOP UNDER SLAB WORK AND PROVIDE SLAB PENETRATION/REMEDATION DRAWINGS BY A LICENSED STRUCTURAL ENGINEER, LICENSED IN THE STATE IN WHICH THE TENANT WORK IS TAKING PLACE.
 - CONTRACTOR TO USE LANDLORD/OWNER APPROVED ROOFING CONTRACTOR FOR ALL NEW TROUGH ROOF PLUMBING VENT PENETRATIONS TO MAINTAIN ROOF WARRANTY.
 - ALL FLOOR SINKS, FLOOR DRAINS, AND FLOOR CLEANOUTS SHALL BE INSTALLED SO THAT TOPS ARE FLUSH WITH FLOOR FINISH TILE.
 - CONTRACTOR TO COORDINATE / VERIFY EXACT LOCATIONS FOR ALL FLOOR FIXTURES PRIOR TO SAW-CUTTING.
 - COORDINATE WATER LINES WITH ELECTRICAL CONTRACTOR. NEW WATER PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANEL GEAR.
 - ALL BACKFLOW PREVENTERS SHOULD BE INSTALLED ABOVE THE KITCHEN DROP CEILING OR WITHIN MILLWORK WHENEVER POSSIBLE OR COMPLETELY OUT OF CUSTOMER VIEW IN THE BACK OF THE KITCHEN. BFP SHOULD REMAIN ACCESSIBLE, AS DEFINED BY LOCAL INSPECTOR (VERIFY BEFORE INSTALLATION). BFP SHOULD NOT INTERFERE IN ANY WAY WITH THE OPERATION OF THE KITCHEN. IF AN EXISTING BACKFLOW PREVENTER IS IN A LOCATION OTHER THAN WHAT IS SHOWN ON THESE DRAWINGS, CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED.
 - ALL PLUMBING AND GAS LINES MUST BE RECESSED WITHIN WALL CAVITIES, UNLESS SPECIFICALLY NOTED OTHERWISE.



01 PLUMBING SUPPLY PLAN
SCALE: 1/16"=1'-0"



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PLUMBING SUPPLY
PLAN

P1.0

Storage Tank Water Heater Sizing Calculator						
Developed by the Plan Review Unit of the Environmental Health Services Section						
Facility Name:		URBAN AIR				
Address:		Arlington Heights, IL				
EQUIPMENT						GPH CALCULATOR
Enter the description, and number and size of compartments for each sink below	Description	Number of compartments	(inches)			Gallons Per Hour (GPH)
			Length	Width	Depth	
			18	18	12	
Largest Sink #1	3 COMP	3				38
Enter the quantity of equipment below	Quantity					Gallons Per Hour (GPH)
Hand Sinks	11					55
Mop sink	1					5
Hand sinks and mop sinks are calculated at 5 GPH each, showers at 15 GPH each. Hose reels are calculated at 5 GPH, clothes washers at 6.8 GPH, other equipment at the usage entered					Total	60
Recovery Rate Needed (GPH):						98
Water Heater Input (BTU or kW) Needed:						
Gas Water Heater			Electric Water Heater			
86,000 BTU at 90°F rise			19 kW at 80°F rise			
97,000 BTU at 90°F rise			22 kW at 90°F rise			
107,000 BTU at 100°F rise			24 kW at 100°F rise			
			17.5 kW at 65°F rise			

Recovery Calc (For Tank Type Water Heater)	
Temperature Set Point =	140 °F
Incoming Water Temp =	53.9 °F
ΔT =	86.1 °F
1 Gallon water =	8.34 LB
Efficiency =	0.98
BTUH = GPH*8.34*ΔT	70,348.81 BTUH
BTUH/Efficiency	71,784.50 BTUH Required
kW = BTUH/3412.142	21.04 kW Required
24.00 kW Provided	

PUBLIC		Load Values, in WSFU			Total WSFU
Fixture	Qty	Cold	Hot	Total	WSFU
Drinking Fountain	7	0.25	-	0.25	1.75
Kitchen Sink	1	3.00	3.00	4.00	4.00
Lavatory	11	1.00	1.00	2.00	22.00
Service Sink	1	2.00	2.00	3.00	3.00
Urinal (3/4" Flush Valve)	2	5.00	-	5.00	10.00
Water Closet (Flush Valve)	12	10.00	-	10.00	120.00
*Values replicated from Illinois Admin Code 890 - Table M					Overall Total = 160.75
FROM ILLINOIS PLUMBING CODE SECTION 890 APPENDIX A, TABLE O:					
A 2" METER AND SERVICE PIPE AND 2-1/2" DISTRIBUTION PIPE CAN HANDLE 180 WSFU.					
180 WSFU > 160.75 WSFU, THEREFORE A 2" METER AND SERVICE PIPE AND 2-1/2" DISTRIBUTION PIPE WILL BE SUFFICIENT.					

*FOR THE PURPOSES OF THIS CALCULATION, THE 3-COMP WAS COUNTED UNDER "KITCHEN SINK", AND THE SODA DISPENSER, BAG-IN-BOX, ICEE MACHINES, ICE MACHINES, AND BREAKROOM FRIGDES WERE COUNTED UNDER "DRINKING FOUNTAIN".

PRESSURE AVAILABLE FOR UNIFORM LOSS CALCULATION:

ARLINGTON HEIGHTS, IL WATER PRESSURE MEASURE NOTE:

STATIC WATER PRESSURE WAS MEASURED TO BE 60 PSI AT 18" AFF ON SITE.

THE CONTROLLING FIXTURE IS THE FLUSH VALVE WATER CLOSET, REQUIRING 25 PSI MINIMUM PER FLUSH.

IF 60 PSI-A-B-C-D ≤ 25 PSI, PRESSURE IS ADEQUATE.

A=PIPE PRESSURE LOSS
B=HYDROSTATIC LOSS
C=METER LOSS
D=BFP LOSS

PIPE PRESSURE LOSS:
250'*(3.0 PSI/100') = 7.5 PSI

HYDROSTATIC LOSS:
0.434 PSI/FT*10' = 4.34 PSI

METER LOSS:
1.0 PSI, PER MANUFACTURER'S CUTSHEET (NEPTUNE T-10 OR EQUAL)

RPZ LOSS:
13 PSI, PER MANUFACTURER'S CUTSHEET (WATTS LF-009) OR EQUAL

PRESSURE REQUIRED FROM CITY:
60-7.5-4.34-1.0-13=34.16 PSI

34.16 PSI PROVIDED > 25 PSI DEMANDED.

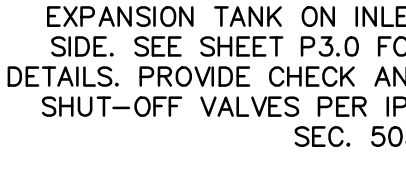
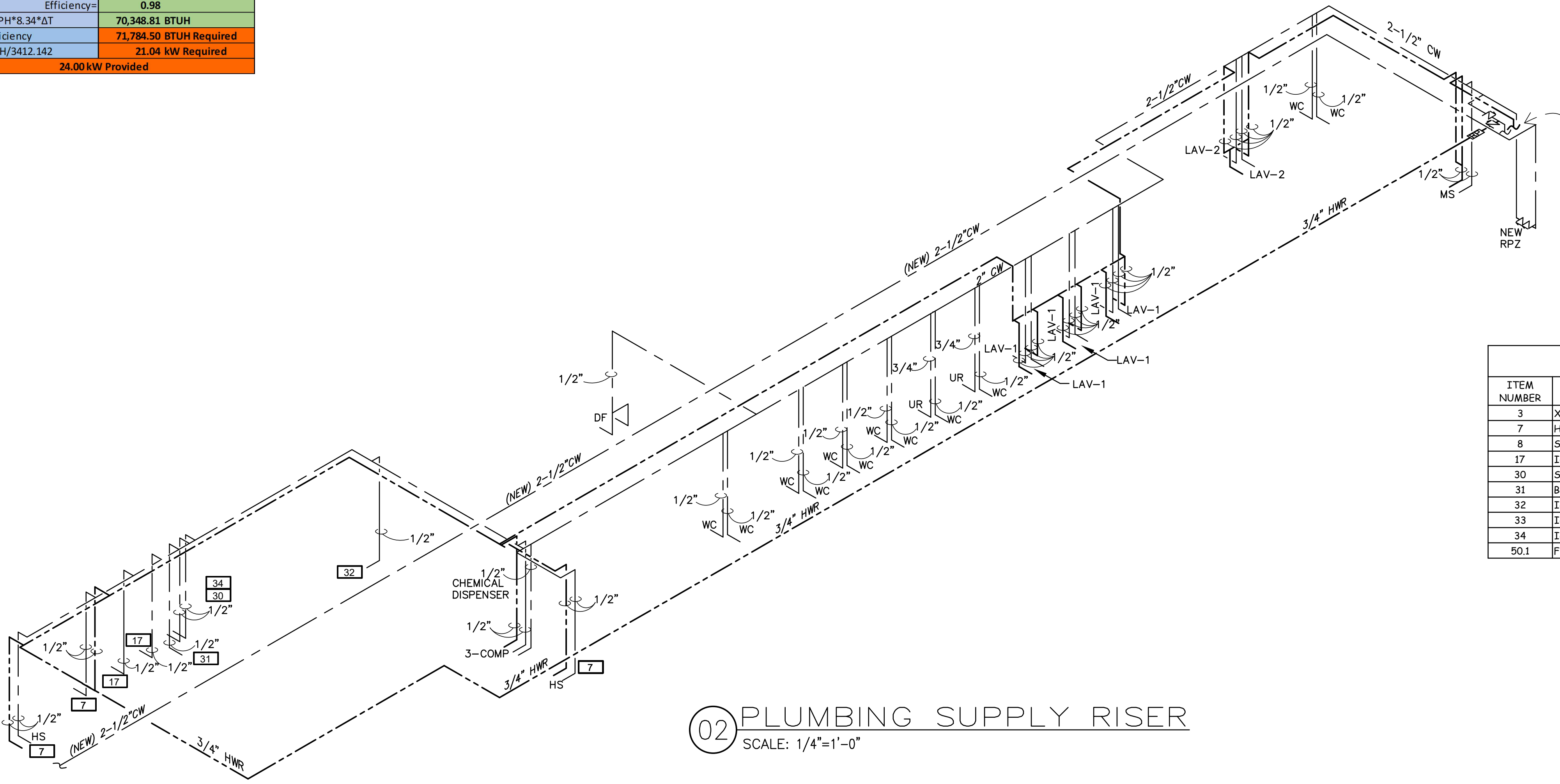
THEREFORE PRESSURE IS ASSUMED TO BE ADEQUATE

RECIRCULATION PUMP SCHEDULE							REMARKS
MARK	SERVICE	GPM	TOTAL HEAD FT.	MOTOR HP	VOLTS	PHASE	
R.P.	140° HOT WATER	5	5	1/12	115	1	BELL AND GOSSETT SERIES 100, BRONZE BODY W/ JOHNSON CONTROLS AQUASTAT MODEL A19DAC-1C, PLACE ABOVE WATER HEATER OR IN UTILITY ROOM WHERE SPACE ALLOWS.

EXPANSION TANK SCHEDULE							REMARKS
MARK	TANK VOLUME	ACCEPTABLE VOLUME GALLON	HEIGHT	DIAMETER	ASTME CONST.	SERVES WATER HEATER	
ET	5	3.3	14"	10"	NO	W.H.	WATTS NO. DETA-12

BASE BID TO ASSUME THAT THE JURISDICTION REQUIRES CONTAINMENT BACK FLOW PREVENTION. P.C. SHALL CONFIRM WITH PLUMBING INSPECTOR IF BUILDING HAS MAIN RPZBFP AND DOES NOT REQUIRE ADDITIONAL BFP IN SPACE, THEN THE PLUMBER MAY OMIT BFP. IF JURISDICTION REQUIRES ISOLATION BFP, THE PLUMBING CONTRACTOR SHALL PROVIDE A POINT OF USE BFP AT REQUIRED FIXTURES AS APPLICABLE/AS REQUIRED AND ELSEWHERE AS DETERMINED BY THE PLUMBING INSPECTOR.

WATER HEATER SCHEDULE (NEW, ELECTRIC, TANK-TYPE)							DESCRIPTION
MARK	RECOVERY @ RISE	STORAGE GALLONS	LINING	FUEL	CFH	HP	
WH	SEE CALC.	80	GLASS	ELEC.	--	--	AO SMITH DRE-80-24 OR EQUAL. SIX 4.0 KW ELEMENTS, SIMULTANEOUS OPERATION. 25.5" DIAMETER, 28" DRAIN PAN.



CONCESSION PLUMBING SCHEDULE											
ITEM NUMBER	EQUIPMENT DESCRIPTION	COLD WATER SIZE	COLD WATER AFF	HOT WATER SIZE	HOT WATER AFF	DIRECT DRAIN SIZE	DIRECT DRAIN AFF	INDIR DRAIN SIZE	GAS SIZE	MBTUH	PLUMBING REMARKS
3	XLT OVEN, GAS										
7	HAND SINK, WALL MOUNT	0.5"	18"	0.5"	18"	1.5"	16"				
8	SINK, NSF, 3 COMP, 18 GAUGE	0.5"	18"	0.5"	18"			1.50"			DRAIN TO FS
17	ICEE, 3 BARREL	0.5"	42"					0.75"			BY VENDOR - VERIFY ALL - DRAIN TO FS
30	SODA DISPENSER	0.5"	60"					0.75"			BY VENDOR - VERIFY ALL - DRAIN TO FS
31	BAG-IN-BOX	0.5"	42"					0.75"			BY VENDOR - VERIFY ALL
32	ICE MAKER W/O BIN	0.5"	60"					0.50"			DRAIN TO FS
33	ICE BIN							0.75"			DRAIN TO FS
34	ICE MAKER W/O BIN	0.5"	60"					0.50"			DRAIN TO FS
50.1	FREEZER, WALK-IN, REMOTE CONDENSER							1.00"			CONDENSATE DRAIN BY PC

KEY NOTES BY SYMBOL 'Ⓢ'

- NEW 80 GALLON ELECTRIC WATER HEATER GROUND MOUNTED, ON HOUSEKEEPING PAD. REFER TO 01/P3.0 FOR DETAIL. COORDINATE FINAL LOCATION IN FIELD.
- NOT USED.
- PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE AT LAVATORIES. SET AT 105°F MAXIMUM.
- PROVIDE W.H.A. ON ALL FAST CLOSING VALVES, AND WHERE ELSE INDICATED AND WHERE NECESSARY.
- ROUTE COLD AND HOT WATER PIPING DOWN TO SERVICE SINK. PROVIDE ISOLATION VALVE IN CEILING SPACE AND/OR UNDER SINK. VERIFY REQUIREMENTS WITH LOCAL INSPECTOR.
- FURROUT/THICKEN WALLS AS NECESSARY FOR POWER AND PLUMBING.
- PROVIDE FAUCET WITH ATMOSPHERIC VACUUM BREAKER.
- PROVIDE A DEDICATED WATER SUPPLY FOR CHEMICAL DISPENSER IN MOP SINK AND 3-COMP SINK AREAS. PROVIDE A REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY ON CHEMICAL DISPENSER WATER SUPPLIES PER SCHEDULE, SHEET P3.0.
- PROVIDE REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY PER SCHEDULE, SHEET P3.0.
- PROVIDE ASSE 1022 COMPLIANT BACKFLOW PREVENTER PER SCHEDULE, SHEET P3.0.

PLUMBING LEGEND

- HW HOT WATER SUPPLY LINE
- CW COLD WATER SUPPLY LINE
- X" SAN SANITARY WASTE LINE
- PIPE DROP
- RISER VENT (DASHED)
- TRAP PRIMER
- CONTINUATION
- END CAP
- ISOLATION / SHUT-OFF VALVE
- EXTENT OF SAWCUTTING/ TRENCHING
- WATER SUBMETER, BETWEEN VALVE AND 1ST FIXTURE.
- REMOTE READOUT FOR SUBMETER, +54" VERIFY LOCATION WITH OWNER'S REP.
- CONNECTION OF NEW TO EXISTING.
- RPZ REDUCED PRESSURE ZONE BACK FLOW ASSEMBLY.
- CHECK VALVE
- RECIRCULATION PUMP.
- WCO WALL CLEAN OUT
- FCO FLOOR CLEAN OUT
- VTR VENT THRU ROOF
- (EX.) EXISTING PIPING
- X"V VENT



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ENLARGED PLUMBING SUPPLY PLAN

P1.1



01 ENLARGED PLUMBING SUPPLY PLAN
SCALE: 1/4"=1'-0"

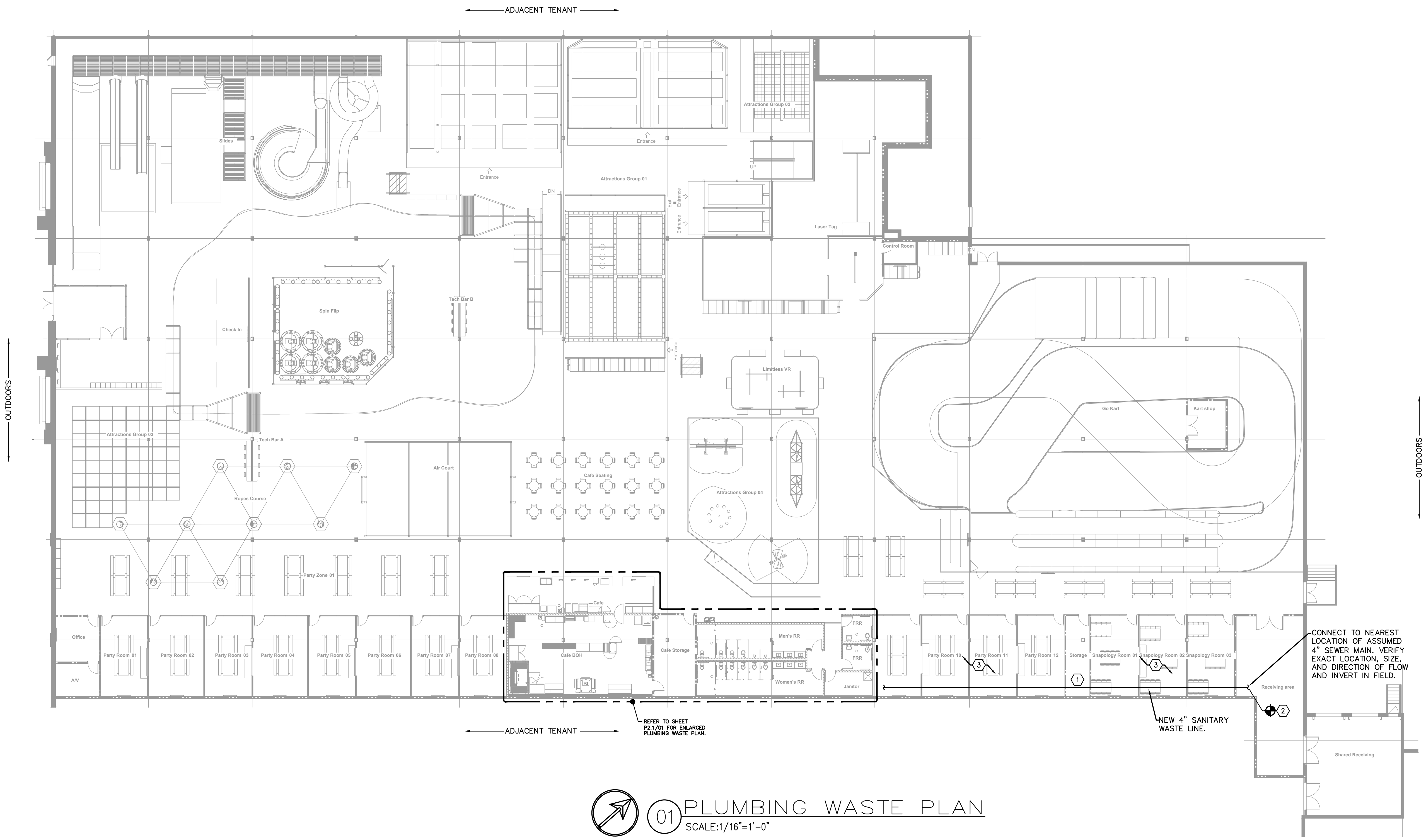
- PLUMBING NOTES**
- A. WASTE AND VENT PIPING MATERIALS INCLUDING FITTINGS AND ACCESSORIES AND INSTALLATION SHALL MEET ALL LOCAL CODE REQUIREMENTS.
- B. CONTRACTOR SHALL FURNISH AND INSTALL HANGER SUPPORTS AND ACCESSORIES AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE PLUMBING SYSTEM.
- C. FLOOR DRAINS AND FLOOR SINKS TO BE FURNISHED WITH BRASS GRATES, MIDLINE OF FLOOR SINK AT THE FACE OF EQUIPMENT HALF GRATE, TYPICAL.
- D. EACH INDIRECT WASTE LINE SHALL BE SEPARATE PIPING FROM THE EQUIPMENT OUTLET CONNECTION TO THE CORRESPONDING FLOOR SINK.
- E. PROVIDE HANGERS AND SUPPORTS FOR INDIRECT WASTE LINES.
- F. PROVIDE 2" MIN. AIR GAP AT INDIRECT WASTE DISCHARGE OF 2.5X PIPE DIAMETER, OR AS OTHERWISE REQUIRED BY CODE.
- G. CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- H. CONTRACTOR SHALL VERIFY THE LOCATION, INVERT AND ELEVATION OF THE EXISTING WASTE LINE FOR NEW CONNECTIONS AT THE JOB SITE.
- I. WASTE AND VENT PIPING INSTALLATION SHALL BE TESTED, INSPECTED AND APPROVED BEFORE BEING COVERED AND CONCEALED.
- J. FIXTURE TRAPS AND FITTINGS INSTALLATION SHALL MEET LOCAL CODE REQUIREMENTS.
- K. CONTRACTOR SHALL REFER TO FIXTURE AND EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS AND INSTRUCTIONS. CONTRACTOR SHALL FURNISH AND INSTALL ALL HARDWARE, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION.
- L. KEEP EXISTING FLOOR DRAINS FROM PREVIOUS TENANT WHERE IN FOOD PREPARATION AREAS. VERIFY EXACT LOCATIONS IN FIELD.
- M. WHERE APPLICABLE, PROVIDE FACTORY AVAILABLE COLLARS (EXTENSIONS) AS NEEDED TO GET INVERT/FALL ON RECESSED GREASE TRAPS.
- N. FURROUT WALLS FOR ELECTRICAL AND PLUMBING AS NEEDED OR REQUIRED BY LANDLORD FOR ELECTRICAL AND PLUMBING CONNECTIONS.
- O. NO INFORMATION IS AVAILABLE AT TIME OF DESIGN INDICATING A LIFT SYSTEM WILL BE NEEDED. SHOULD UNEXPECTED CONDITIONS BE FOUND ON SITE, THE G.C. SHALL PREPARE A BID FOR ADDITIONAL WORK FOR THIS SCOPE.
- P. CHANGES IN DIRECTION OF FLOW FOR WASTE PIPING SHALL BE IN INCREMENTS OF NO MORE THAN 45°.
- Q. PLUMBING MAY NOT BE PERMITTED IN LANDLORD'S DEMISING WALLS. ALL PLUMBING SUPPLY, WASTE, AND VENT LINES SHALL BE INSTALLED WITHIN DEMISED SPACE. IN CASES WHERE LINES ARE SHOWN UNDER AND WITHIN DEMISING WALLS IT IS FOR DIAGRAMMATIC PURPOSES ONLY. FURROUT WALLS AS NECESSARY FOR VENT/PIPING.
- R. UNLESS SPECIFIED OTHERWISE, 2" AND 3" SANITARY WASTE LINES SHALL HAVE 1-1/2" VENT RISERS. 4" SANITARY WASTE LINES SHALL HAVE 2" VENT RISERS. NEW OVERHEAD HORIZONTAL VENTS SHALL BE NO SMALLER THAN 2". REUSE ROOF PENETRATIONS WHERE POSSIBLE.

- PLUMBING LEGEND**
- HW HOT WATER SUPPLY LINE
CW COLD WATER SUPPLY LINE
X" SAN SANITARY WASTE LINE
PIPE DROP
RISER VENT (DASHED)
TRAP PRIMER
CONTINUATION
END CAP
ISOLATION / SHUT-OFF VALVE
EXTENT OF SAWCUTTING/ TRENCHING
WATER SUBMETER, BETWEEN VALVE AND 1ST FIXTURE.
REMOTE READOUT FOR SUBMETER, +54" VERIFY LOCATION WITH OWNER'S REP.
CONNECTION OF NEW TO EXISTING.
REDUCED PRESSURE ZONE BACK FLOW ASSEMBLY.
CHECK VALVE
RECIRCULATION PUMP.
WCO WALL CLEAN OUT
FCO FLOOR CLEAN OUT
VTR VENT THRU ROOF
(EX.) EXISTING PIPING
X"V VENT

- PLUMBING PLAN KEYED NOTES 'A'**
- ① PIPING UNDER FLOOR. SLOPE 4" DRAIN PIPE AT 1/4" PER FOOT AND 3" OR SMALLER DRAIN PIPE AT 1/4" PER FOOT.
- ② CONNECT TO NEAREST EXISTING WASTE LINE. VERIFY EXACT SIZE, LOCATION, AND DIRECTION OF FLOW OF EXISTING WASTE LINE IN FIELD.
- ③ COORDINATE ROUTING OF UNDERSLAB WASTE LINES IN FIELD WITH STRUCTURAL ELEMENTS.

ARLINGTON HEIGHTS, IL NOTE:
CONTRACTOR SHALL DISCONNECT EXISTING INACTIVE PORTIONS OF SANITARY PIPING FROM ACTIVE AND REUSED PORTIONS.

- PLUMBING NOTES**
- A. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING OR FRESH AIR INTAKE.
- B. PROVIDE TRAP PRIMERS ON ALL FIXTURES WHOSE TRAP SEALS ARE SUBJECT TO DRYING OUT.
- C. SEE RESTAURANT EQUIPMENT SCHEDULE ON THE ARCHITECTURAL PLANS FOR EQUIPMENT PROVIDED BY OTHERS. THIS CONTRACTOR SHALL CONNECT WASTE, VENT, AND WATER TO EQUIPMENT FURNISHED BY OTHERS AND THIS CONTRACTOR SHALL INSTALL FAUCETS AND MISC. FITTINGS FOR A COMPLETE INSTALLATION.
- D. ALL PLUMBING LINES MUST BE RECESSED WITHIN WALL CAVITIES UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAWING SET.
- E. CONNECT NEW DOMESTIC WATER TO EXISTING LINE. INSTALL BALL VALVE AS SHOWN AND PROVIDE REDUCED PRESSURE BFP AT WATER SERVICE CONNECTION IF REQUIRED BY AHJ.
- F. EXTEND PLUMBING VENT UP THRU ROOF TO APPROVED VENT TERMINATION. LOCATE MINIMUM OF 10 FEET FROM ANY O.A. INTAKE AT THE ROOF-TOP UNITS.
- G. ALL EXPOSED PIPING TO PLUMBING FIXTURES SHALL BE CHROME PLATED. STOPS SHALL BE PROVIDED WITH REMOVABLE TYPE HANDLES.
- H. WHERE APPLICABLE, THE PLUMBING CONTRACTOR SHALL SEE THAT THE PROPER NEW (UPGRADE) GAS SERVICE, METER AND REGULATOR (IF REQUIRED) ARE INSTALLED BY THE UTILITY CO. AND PAY FOR ANY NEW SERVICE AND ANY FEES CHARGED FOR THE INSTALLATION OF THE METER AND SERVICE LINES. GAS LINES SHALL EXTEND FROM THE METER TO ALL EQUIPMENT REQUIRING GAS.
- I. GAS PIPING: SCREWED STANDARD WEIGHT SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53 SPECIFICATIONS FOR GAS PIPING. PROVIDE ALL WELDING OF PIPING AS REQUIRED. PAINT ALL NEW GAS PIPING SAFETY YELLOW WITH TWO COATS OF MARINE GRADE PAINT.
- J. GAS PIPE SHALL BE PROVIDED WITH SUITABLE DRIP LEGS ON ALL MAINS AND RISERS AT EQUIPMENT CONNECTIONS. ALL EQUIPMENT CONNECTIONS WILL BE PROVIDED WITH AN AGA APPROVED BUTTERFLY VALVE. CAP WHERE REQUIRED.



01

PLUMBING WASTE PLAN

SCALE: 1/16"=1'-0"



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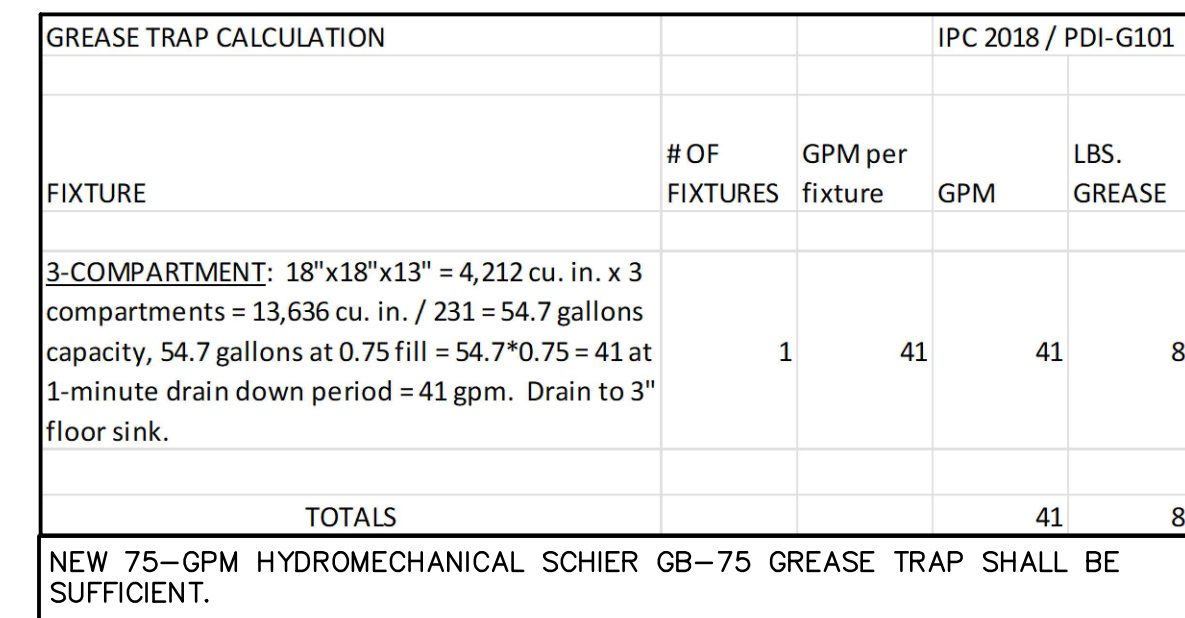
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PLUMBING WASTE PLAN

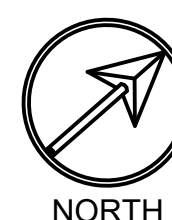
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PROVIDE TRAP PRIMERS ON ALL
FIXTURES WHOSE TRAP SEALS
ARE SUBJECT TO DRYING OUT.



SCALE: NO SCALE



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

- A. WASTE AND VENT PIPING MATERIALS INCLUDING FITTINGS AND ACCESSORIES AND INSTALLATION SHALL MEET ALL LOCAL CODE REQUIREMENTS.
- B. SHALL BE FURNISHED WITH FITTINGS AND ACCESSORIES AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE PLUMBING SYSTEM.
- C. FLOOR DRAINS AND FLOOR SINKS TO BE FURNISHED WITH BRASS GRATES.
- D. G.C. SHALL PROVIDE WASTE AND VENT PIPING FROM THE EQUIPMENT OUTLET CONNECTION TO THE CORRESPONDING FLOOR SINK.
- E. PROVIDE HANGERS AND SUPPORTS FOR INDIRECT WASTE LINES.
- F. PROVIDE MIN. AIR GAP AT INDIRECT WASTE DISCHARGE AS REQUIRED BY CODE.
- G. CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- H. CONTRACTOR SHALL VERIFY THE LOCATION, INVERT AND ELEVATION OF THE EXISTING WASTE AND VENT CONNECTIONS.
- I. WASTE AND VENT PIPING INSTALLATION SHALL BE TESTED, INSPECTED AND APPROVED BEFORE BEING COVERED AND CONCEALED.
- J. CONTRACTOR SHALL VERIFY ALL FITTINGS SHALL MEET LOCAL CODE REQUIREMENTS.
- K. CONTRACTOR SHALL REFER TO FIXTURE AND EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS AND INSTRUCTIONS. CONTRACTOR SHALL FURNISH AND INSTALL HARDWARE, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION.
- L. KEEP EXISTING FLOOR DRAINS FROM PREVIOUS TENANT WHERE IN FOOD PREPARATION AREA. EXISTING FLOOR DRAIN SHALL BE MAINTAINED.
- M. PROVIDE FACTORY AVAILABLE COLLARS (EXTENSIONS) AS NEEDED TO GIVE INVERT/FALL ON RECESSED GREASE TRAPS.
- N. FURNISH COLLARS FOR ELECTRICAL AND PLUMBING AS NEEDED OR REQUIRED BY LANDLORD FOR ELECTRICAL AND PLUMBING CONNECTIONS.
- O. NO INFORMATION IS AVAILABLE AT TIME OF DESIGN INDICATING A LIFT SYSTEM WILL BE REQUIRED. SHOULD UNEXPECTED CONDITIONS OCCUR ON SITE, THE G.C. SHALL PREPARE A BID FOR ADDITIONAL WORK FOR THIS PROJECT.

- (1) POINT OF CONNECTION TO EXISTING 4" SANITARY LINE (DIAGRAMMATIC). CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, DEPTH AND DIRECTION OF FLOW OF MAIN SEWER LINE PRIOR TO CONNECTING.
- (2) PIPING UNDER FLOOR. SLOPE 4" DRAIN PIPE AT 1/8" PER FOOT AND 3" OR SMALLER DRAIN PIPE AT 1/4" PER FOOT. ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.
- (3) NOT USED.
- (4) ROUTE INDOOR DRAIN CONDENSATE FROM FREEZER EVAPORATOR COIL TO HUB DRAIN.
- (5) PROVIDE WITH TRAP PRIMER.
- (6) ROUTE INDOOR DRAIN LINES FROM A/C CONDENSATE TO STORM DRAIN IF CONNECTED TO CITY STORM DRAINAGE SYSTEM. OTHERWISE, ROUTE TO MOP SINK OR OTHER APPROVED RECEPTOR.
- (7) ROUTE DISCHARGE FROM 3-COMPARTMENT SINK TO FLOOR SINK, VIA INDOOR WASTE LINE WITH 3" AIR GAP. 3-COMP. SINK HAVE FLOW CONTROL LEVERS ON EACH SINK BASIN.
- (8) PROVIDE 3" FLOOR SINK DISCONNECT TO SERVE 3-COMP. SINK.
- (9) SEPARATE VENTS UP WITHIN WALL TO MINIMUM 48", THEN COMBINE TO MAKE ONE 4" V.T.R. GREASE TRAP VENTING TO REMAIN SEPARATE FROM THE REST OF THE BUILDING VENTING SYSTEM.
- (10) COORDINATE ROUTING OF UNDERSLAB WASTE LINES IN FIELD WITH STRUCTURAL ELEMENTS.
- (11) PROVIDE GREASE TRAP BELOW SLAB, WITH LID FLUSH WITH FINISHED FLOOR WITH SLIP-PROOF TREAD COVER. PROVIDE COLLAR EXTENSION AS NEEDED. PROVIDE VAPOR-PROOF SEAL LID WITH 1/2" PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAILS, SHEET P3.0. PROVIDE A VENT SYSTEM DESIGNATED TO THE TRAP, BOTH THE INLET AND OUTLET REQUIRE CONNECTION TO THE VENT SYSTEM, WHICH MAY BE JOINED IN THE WALL 48" ABOVE FINISHED FLOOR.
- (12) OVERHEAD PIPING FOR COOLER CONDENSATE, HEAT TRACE TO PREVENT TO FREEZING TEMPERATURES. ROUTE TIGHT TO COOLER WALL.

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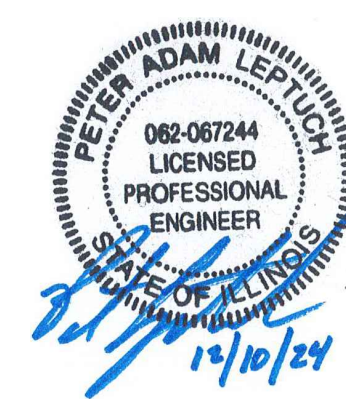
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ENLARGED
PLUMBING WASTE
PLAN

P2.1

A. SANITARY PIPING:
(WHERE NOT OTHERWISE SPECIFIED THROUGHOUT THE DRAWING SET, WASTE, DRAIN AND VENT PIPING SHALL BE PER LOCAL CODE AND AUTHORITY HAVING JURISDICTION.)

1. UNDERSLAB DRAIN PIPING SHALL BE SCHEDULE 40 PVC.
2. VENT PIPING SHALL BE SCHEDULE 40 PVC. VENT PIPING ABOVE FLOOR 2" OR SMALLER MAY BE GALVANIZED STEEL.
3. CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE WITH 95-15 TIN-ANTIMONY SOLDERED JOINTS AND WROUGHT COPPER FITTINGS WITH DIELECTRIC SEPARATION BETWEEN DISSIMILAR METALS. CONDENSATE PIPING BELOW ROOF DECK MAY BE PVC. PROVIDE SHARKBITE TRANSITION FROM PVC TO COPPER.
4. INSULATE ALL HORIZONTAL RUNS OF PIPE LOCATED IN CEILING SPACES OF TENANTS IN SPACES BELOW WHEN APPLICABLE. INSULATION TO BE AS SPECIFIED FOR WATER PIPING.
5. PROVIDE LINE-ITEM BID TO UTILIZE PVC, OBTAIN APPROVAL FROM INSPECTOR PRIOR TO INSTALLATION THAT PVC IS ALLOWED FOR THE SPECIFIC HVAC LAYOUT FOR THIS PROJECT.

B. POTABLE WATER PIPING

1. ALL HOT AND COLD WATER SUPPLY PIPING, WHEN ALLOWED BY A.H.J. AND OWNER SHALL BE CPVC OR PEX.
2. WATER PIPING IN CEILING SPACE AND WITHIN WALLS MAY BE TYPE "L" COPPER OR PEX, INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SHARK-BITE TRANSITIONS, OR APPROVED EQUALS.
3. BELOW GRADE: TYPE "K", ANNEALED TEMPERED COPPER TUBE FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.
4. WHERE APPLICABLE, TRANSITIONS BETWEEN COPPER AND PLASTIC PIPE SHALL BE MADE BY SHARKBITE OR SIMILAR TRANSITIONS, RATED FOR USE WITH SUCH MATERIALS AS ARE BEING USED.

C. GAS PIPING

1. GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-120, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.
2. GAS PIPING EXPOSED ON ROOF MUST BE PAINTED WITH RUST-INHIBITING PAINT.

**THIS MATERIALS LIST REPRESENTS THE MINIMUM SPECIFICATIONS SET FORTH BY THE MEP ENGINEER. CONTACT LANDLORD'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION TO VERIFY IF THERE ARE ANY ADDITIONAL OR MORE STRINGENT REQUIREMENTS BEYOND THESE.

A. SANITARY PIPING:
(WASTE, DRAIN AND VENT PIPING SHALL BE PER LOCAL CODE AND AUTHORITY HAVING JURISDICTION.)

1. BASE BID SHALL BE FOR PVC DRAIN/WASTE/VENT PIPING, WRAPPED IN "3M FIRE BARRIER PLENUM WRAP 5A+" SIZES 1" DIETER AND LARGER, CONFORM WITH PLUMBING AND MECHANICAL INSPECTOR THAT THIS JURISDICTION ALLOWS THIS CONFIGURATION, PRIOR TO INSTALLATION.
2. BID ALTERNATE SHALL BE FOR SERVICE WEIGHT CAST IRON DRAIN/WASTE/VENT PIPING. USE NO HUB COUPLING FITTINGS WHERE ALLOWED BY A.H.-J., OTHERWISE USE BELL AND SPIGOT FITTINGS WITH LEAD-OAKUM JOINTS.

B. POTABLE WATER PIPING

1. ALL HOT AND COLD WATER SUPPLY PIPING, SHALL BE TYPE "L" COPPER.
2. BELOW GRADE: TYPE "K", ANNEALED TEMPERED COPPER TUBE FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.
3. TYPE "M" COPPER MAY BE USED FOR CONDENSATE PIPING.

C. GAS PIPING

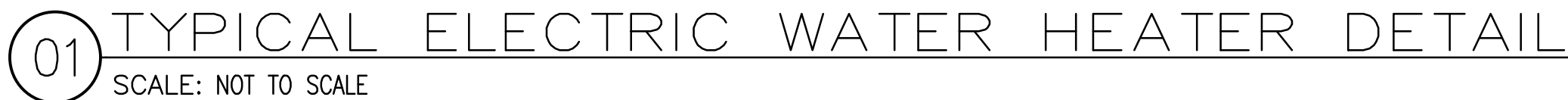
1. GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-120, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.
2. GAS PIPING EXPOSED ON ROOF MUST BE PAINTED WITH RUST-INHIBITING PAINT.

****THIS MATERIALS LIST REPRESENTS THE MINIMUM SPECIFICATIONS SET FORTH BY THE MEP ENGINEER. CONTACT LANDLORD'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION TO VERIFY IF THERE ARE ANY ADDITIONAL OR MORE STRINGENT REQUIREMENTS BEYOND THESE.**

1. A HOT WATER RECIRCULATION LOOP IS REQUIRED. THE HOT WATER RECIRCULATION LOOP SHALL DROP DOWN IN THE WALLS WHERE IT SERVES PUBLIC LAVATORIES SUCH THAT THE MAXIMUM LENGTH OF SUPPLY BETWEEN THE LOOP AND THE FAUCET DOES NOT EXCEED 24" OF 1/2" PIPE. THE RUNOUT OF HOT WATER PIPE (FROM LOOP TO FIXTURE) SHALL NOT EXCEED 43' FOR 1/2" PIPE, OR 21' FOR 3/4" PIPE.
2. RECIRCULATION PUMP SHALL HAVE TIMER AND AQUASTAT PER IECC 2021, SECTION 404.6.

MARK	FIXTURE	CW	HW	W	V	ADA	DESCRIPTION
WC	WATER CLOSET	1"	--	4"	2"	YES	EXISTING TO REMAIN, REPLACE IF IN TOO POOR CONDITION WITH EQUAL. FIXTURES: AMERICAN STANDARD MADERA FLOWISE 15" HEIGHT ELONGATED FLUSHOMETER TOILET (SUPPLY LINES: 1"). PROVIDE WITH SELECTRONIC SENSOR--OPERATED TOILET FLUSH VALVE, BATTERY POWERED, MODEL #6065.121.002 COLOR: WHITE SEAT: CHAMPION #5325.010
LAV-1	LAVATORY	1/2"	1/2"	2"	1-1/2"	YES	EXISTING TO REMAIN, REPLACE IF IN TOO POOR CONDITION WITH EQUAL. FIXTURE: KOHLER KINGSTON K-2005 WALHUNG LAVATORY FAUCET: AMERICAN STANDARD, METERING, MODEL #1540.227, TWO HANDLE CENTERSET SPOUT LAVATORY FAUCET, POLISHED CHROME FINISH, 0.5 GPM. (OR EQUAL) MIXING VALVES: POWERS #LM495-1; ASSE 1070, SET AT 110°F.
LAV-2	LAVATORY	1/2"	1/2"	2"	1-1/2"	YES	EXISTING TO REMAIN, REPLACE IF IN TOO POOR CONDITION WITH EQUAL. FIXTURE: AMERICAN STANDARD #6043.008 STUDIO DROP IN SINK, WITH EVERCLEAN VITREOUS PORCELAIN. FAUCET: AMERICAN STANDARD, METERING, MODEL #134.827, TWO HANDLE CONVENTIONAL WIDESPREAD LAVATORY FAUCET. POLISHED CHROME FINISH, 0.5 GPM. (OR EQUAL) MIXING VALVES: POWERS #LM495-1; ASSE 1070 SET AT 110°F.
FD	FLOOR DRAIN	--	--	3"	1-1/2"	--	3" CAST IRON FLOOR DRAIN WITH POLISHED NICKEL BRONZE TOP. ZURN Z-415-J (SQUARE) J.R. SMITH NO 2005Y-A, JOSAM34000-S OR APPROVED EQUAL. ADJUSTABLE STRAINER WITH FLASHING CLAMP DEVICE, PROVIDE TRAP PRIMER CONNECTION PER LL REQUIREMENTS.
WHA	WATER HAMMER ARRESTOR	1/2"	--	--	--	--	PROVIDE AND INSTALL AT ALL FAST CLOSING VALVES, INCLUDING FLUSH VALVES, AND AT ENDS OF FIXTURE RUNS.
DF	DRINKING FOUNTAIN	1/2"	--	2"	1-1/2"	YES	ELKAY - LZSLTBWSPS BARRIER FREE BI-LEVEL DRINKING FOUNTAIN WITH FILTER AND ELKAY - EZH20 BOTTLE FILLING STATION. REFER TO ELKAY TEMPLATE FOR WATER ROUGH-IN HEIGHT, CANE APRON, APPROX. 19" AFF. PROVIDE APRON LKAPREZL, INSTALL PER ADA.
TG	TRAP GUARD	--	--	LINE SIZED	--	--	COMMERCIAL GRADE
MS	SERVICE SINK	1/2"	1/2"	2"	1-1/2"	YES	FIXTURES: FLOOR MOUNTED MOP SINK 24"x24", MODEL --FIAT MSB2424. FAUCETS: MOEN #5212 W/ ADA COMPL. LEVER HANDLE, 35 MODE STRAINER AND LINT BASKET. PROVIDE ATMOSPHERIC VACUUM BREAKER AT FAUCET.
UR	URINAL	3/4"	--	2"	1-1/2"	YES	EXISTING TO REMAIN, REPLACE IF IN TOO POOR CONDITION WITH EQUAL. FIXTURES: AMERICAN STANDARD WASHBROOK FLOWISE, 0.125 GPF, #6590.503; TOP SPUD 0.5 GPF FLUSH VALVES: AMERICAN STANDARD FLUSH VALVE MODEL #6045.013.002
BFP	BACKFLOW PREVENTER	LINE SIZED	--	--	--	--	WATTS SD-3 DUAL CHECK VALVES WITH ATMOSPHERIC PORT, ASSE 1022, FOR PROTECTION OF WATER SUPPLY TO CARBONATED AND NON-CARBONATED BEVERAGE FIXTURE APPLIANCES, COFFEE MACHINES, ICE MAKERS, ETC. STAINLESS STEEL BODY CONSTRUCTION AND ALL RUBBER INTERNAL COMPONENTS.
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	LINE SIZED	--	--	--	--	WATTS LF009 REDUCED PRESSURE ZONE ASSEMBLY, FOR PROTECTION OF CHEMICAL DISPENSER AND MAIN WATER SUPPLY AS APPLICABLE.

NOTES:
1. ALL FIXTURES MAY BE SUBSTITUTED FOR APPROVED EQUALS.
2. NOT ALL FIXTURES USED ON ALL JOBS.
3. ALL FIXTURES -- PROVIDE TRAP PRIMERS/TRAP GUARDS WHERE REQUIRED BY LOCAL CODES AND/OR AHJ.
4. APPROVED EQUALS FOR ACCESSORIES: ZURN, SIOUX CHIEF, PRECISION PLUMBING PRODUCTS



03 HANGER FOR INSULATED PIPING

SCALE: NOT TO SCALE

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PLUMBING SCHEDULES AND DETAILS

P3.0

KEY NOTES BY SYMBOL '⑦'

- ① EXISTING RTU LOCATED ON EXISTING ROOF CURB ON ROOF ABOVE. FIELD VERIFY DUCT SIZES AND SUPPLY/RETURN TYPE. CONNECT NEW DUCT AS SHOWN AND ROUTE TO URBAN AIR SPACE, AS SHOWN. PROVIDE DUCT TRANSITION FROM EXISTING TO NEW, AS NEEDED. INSTALL NEW 1.5 HOUR DYNAMIC FIRE DAMPER (WITH TYPE B FRAME) AT DEMISING WALL.
- ② PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT, HONEYWELL VISION PRO 8000 WITH REMOTE SENSOR, AND AUTO CHANGEOVER AND RELATED WIRING TO CONTROL EACH UNIT. MOUNT T-STAT AT 48" AFF, SENSOR AT 96" AFF.
- ③ EXISTING RTU LOCATED ON EXISTING ROOF CURB ON ROOF ABOVE. THERE ARE EXISTING SUPPLY AND RETURN AIR DUCTS THAT ARE ROUTE ABOVE THE ROOF OVER TO A DOG HOUSE ROOF STRUCTURE. THE EXISTING DUCTS THEN DROP DOWN IN THE SPACE. INSTALL NEW CONCENTRIC SUPPLY AIR UNIT EQUAL TO TITUS MODEL TVM-4. MODIFY EXISTING SUPPLY DUCT / PROVIDE NEW TO CONNECT TO TVM-4.
- ④ 14X14 EXHAUST DUCT UP THROUGH ROOF TO NEW EXHAUST FAN ON NEW ROOF CURB.
- ⑤ ROUTE NEW SUPPLY AIR RUN OUT (INTERNALLY INSULATED EXPOSED SPIRAL DUCT) OVER TO NEW SUPPLY AIR GRILLE.
- ⑥ EXISTING RTU LOCATED ON EXISTING ROOF CURB ON ROOF ABOVE. INSTALL NEW CONCENTRIC SUPPLY AIR UNIT EQUAL TO TITUS MODEL TVM-4. MODIFY EXISTING SUPPLY DUCT / PROVIDE NEW TO CONNECT TO TVM-4.
- ⑦ ALL NEW UNITS SUPPLY 2,000 CFM OR MORE TO HAVE RETURN AIR SMOKE DETECTORS. SMOKE DETECTOR SHALL BE WIRE TO FIRE ALARM.
- ⑧ ROUTE 6" EXHAUST DUCT UP THROUGH ROOF TO ROOF VENT CAP.
- ⑨ EXISTING RTU LOCATED ON EXISTING ROOF CURB ON ROOF ABOVE. THERE ARE EXISTING SUPPLY AND RETURN AIR DUCTS THAT ARE ROUTE ABOVE THE ROOF OVER TO A DOG HOUSE ROOF STRUCTURE. THE EXISTING DUCTS THEN DROP DOWN IN THE SPACE. FIELD VERIFY DUCT SIZES AND SUPPLY/RETURN TYPE. CONNECT NEW DUCT AS SHOWN AND ROUTE TO URBAN AIR SPACE, AS SHOWN. PROVIDE DUCT TRANSITION FROM EXISTING TO NEW, AS NEEDED. INSTALL NEW 1.5 HOUR DYNAMIC FIRE DAMPER (WITH TYPE B FRAME) AT DEMISING WALL.

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.

HVAC SEQUENCE OF OPERATION

OCCUPIED MODE
RTUS SEQUENCE:

COOLING MODE: COMMAND FROM TEMP SENSOR RTUS SET AT 68°F, ADJUSTABLE) CALLS FOR COOLING, THE SUPPLY FAN SHALL ENERGIZE AND THE UNIT SHALL CYCLE THE CORRESPONDING REMOTE COMPRESSOR ON, AS NEEDED, TO MAINTAIN SPACE TEMPERATURE SET POINT.

HEATING MODE: COMMAND FROM TEMP SENSORS (SET AT 68°F, ADJUSTABLE) RTUS CALLS FOR HEATING, THE SUPPLY FAN SHALL ENERGIZE AND THE GAS FURNACE SHALL ENERGIZE AS NEEDED TO MAINTAIN SPACE TEMPERATURE SET POINT.

ARLINGTON HEIGHTS, IL NOTE:
PROVIDE TURNING VANES ON ALL RECTANGULAR SUPPLY DUCTS CARRYING MORE THAN 1,200 CFM OF AIR.

RETURN AIR PLENUM:
THE HVAC SYSTEM UTILIZES THE PLENUM AND OPEN SPACES AS A MEANS OF RETURN AIR PATH BACK TO RTU(S). ALL MATERIALS FROM ALL DISCIPLINES MUST BE PLENUM RATED.

ARLINGTON HEIGHTS, IL NOTE:
THE MEP DRAWINGS ARE NOT STRUCTURAL ENGINEERING. STRUCTURAL ENGINEERING IS REQUIRED FOR ADDING NEW RTUS, ETC. AND WILL BE BY OTHERS.

ARLINGTON HEIGHTS, IL NOTE:
PROVIDE VOLUME / BALANCING DAMPERS ON ALL SUPPLY AND RETURN AIR DEVICES WHETHER GRAPHICALLY SHOWN OR NOT.

ARLINGTON HEIGHTS, IL NOTE:
CONTRACTOR SHALL CONFIRM FINAL FIRE RATINGS OF SPACE AND ADD FIRE-RATED DAMPERS, DIFFUSERS, ETC. TO MEET SAID FIRE RATINGS, AS NEEDED. REFER TO FINAL ARCHITECTURAL PLANS FOR WALL AND/OR CEILING FIRE RATINGS. COORDINATE IN FIELD. DO NOT USE CORRIDORS AS RETURN AIR PATH.

ARLINGTON HEIGHTS, IL NOTE:
ALL MECHANICAL WORK SHALL COMPLY WITH 2018 INTERNATIONAL MECHANICAL CODE (IMC) AND 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).

ARLINGTON HEIGHTS, IL
THIS PROJECT IS A TENANT FINISHOUT OF AN EXISTING RETAIL SPACE INSIDE A MALL THAT WAS FORMERLY A MOVIE THEATER.

HVAC SUMMARY:

64,956 SQ FT.
(AREA CONDITIONED)
227.5 TONS
285.5 SF/TON

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
①	THERMOSTAT @ 48" AFF
②	DUCT MOUNTED SMOKE DETECTOR
③	REMOTE ROOM TEMPERATURE SENSOR AT 96" AFF
④	GAS SENSOR
⑤	GAS SENSOR CONTROLLER
⑥	VOLUME DAMPER
⑦	MOTORIZED DAMPER WITH ACTUATOR
⑧	BAROMETRIC FLAP DAMPER
RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT
EF	EXHAUST FAN
FD	FIRE DAMPER
CFD	CEILING FIRE DAMPER

AIR DEVICE NECK CHART

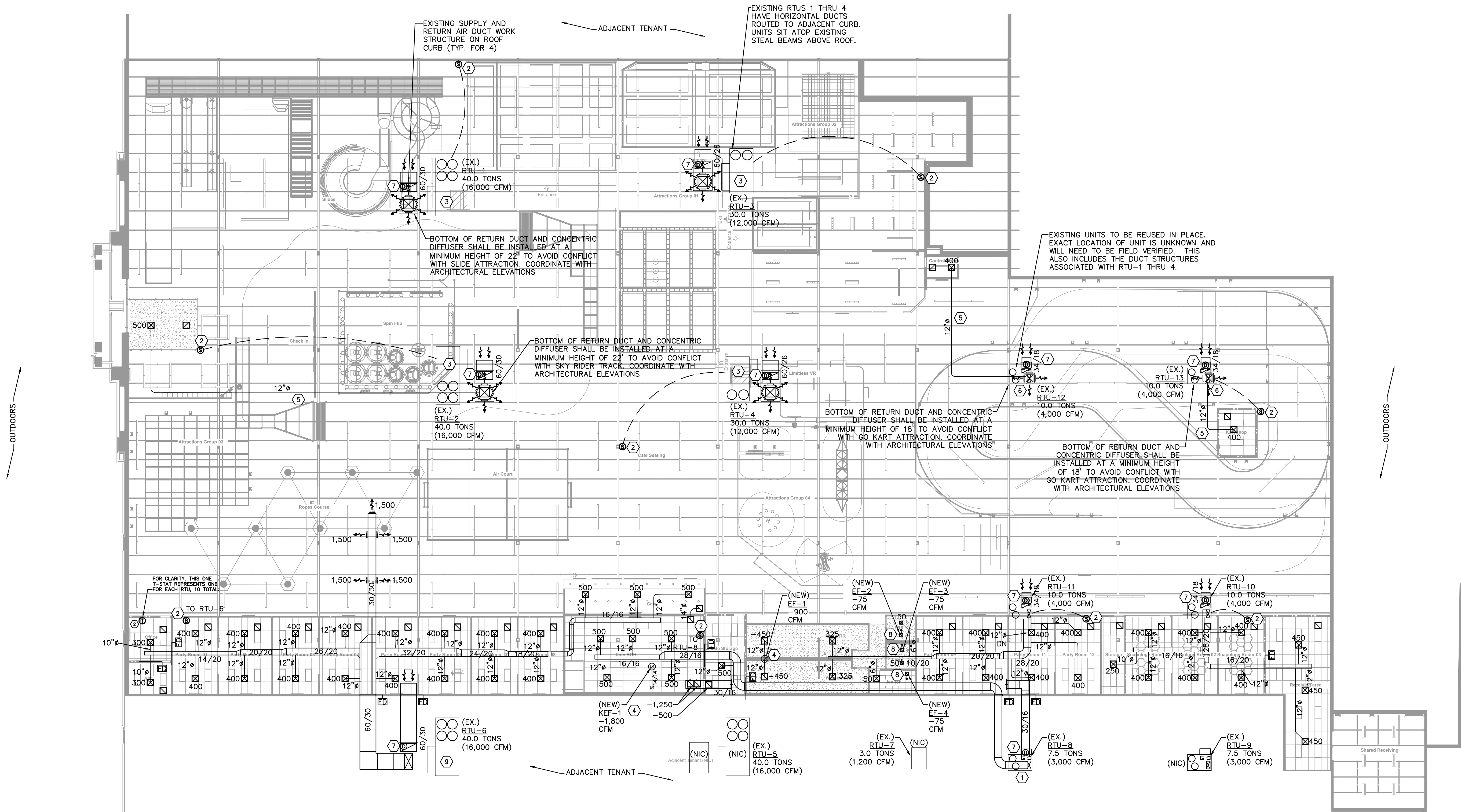
8" - 0 TO 180 CFM
10" - 185 TO 350 CFM
12" - 355 TO 550 CFM
14" - 555 TO 850 CFM
16" - 855 TO 1350 CFM
18" - 1360 TO 1750 CFM

*USE ABOVE SIZES UNLESS A LARGER SIZE IS INDICATED ON PLANS.

HVAC UNIT DROP CONFIGURATION IS SCHEMATIC ONLY. VERIFY EXACT UNIT PLACEMENT, SUPPLY AND RETURN DROP SIZE AND ORIENTATION, STRUCTURAL CLEARANCES, ETC. AND MAKE ANY FIELD NECESSARY CHANGES TO GET SUPPLY AND RETURN DROPS TO FIT THROUGH ROOF STRUCTURE. USE 24" CURB TO TRANSITION ABOVE ROOF DECK WHERE NECESSARY - AND WHERE IT DOES NOT POSE A LINE-OF-SIGHT ISSUE.

MANDATORY TEST AND BALANCE REPORT BY LICENSED 3RD PARTY TO BE PROVIDED TO OWNER AND ARCHITECT UPON COMPLETION OF HVAC WORK.

FINAL PLACEMENT OF THERMOSTAT TO BE SELECTED BY CONSTRUCTION MANAGER OR OWNER'S REPRESENTATIVE AND MAY NEED TO BE MODIFIED DUE TO FIELD CONDITIONS.



01 MECHANICAL PLAN
SCALE: 1/16" = 1'-0"



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MECHANICAL PLAN

M1.0

ROOF-TOP UNIT SCHEDULE - 480V (GAS HEAT) (EXISTING)

MARK	MANUFACTURER/ MODEL NUMBER	NOMINAL TONS	FAN HP	CFM	OUTSIDE AIR CFM	IEER SEER		COOLING CAPACITY (MBH)			HEATING GAS INPUT (MBH)	ELECTRICAL			UNIT WEIGHT (LBS)	MFG DATE	NOTES
						TOTAL	SENSIBLE	DRY BULB/ WET BULB °F	(VOLTS/PH/HZ)	UNIT MCA		UNIT MGCP					
RTU-1	CARRIER 48A4D040Q621EQ	40.0	20.0	16,000	3,000	—	—	480.0	360.0	80/67	400	460/3/60	117.0	125.0	—	2014	1,11,12
RTU-2	CARRIER 48A4E040Q662AEQ	40.0	20.0	16,000	3,000	—	—	480.0	360.0	80/67	800	460/3/60	110.0	125.0	—	2018	1,11,12
RTU-3	CARRIER 48A4D030N621EQ	30.0	10.0	12,000	2,215	—	—	360.0	270.0	80/67	350	460/3/60	72.0	80.0	—	2014	1,11,12
RTU-4	CARRIER 48A4D030N621EQ	30.0	10.0	12,000	2,215	—	—	360.0	270.0	80/67	350	460/3/60	72.0	80.0	—	2014	1,11,12
RTU-6	CARRIER 48A4D040Q662AEQ	40.0	20.0	16,000	3,000	—	—	480.0	360.0	80/67	400	460/3/60	110.0	125.0	—	2018	1,11,12
RTU-8	CARRIER 48HCED08J2A6A2	7.5	—	3,000	425	—	—	90.0	67.5	80/67	180	460/3/60	23.0	25.0	—	2018	1,11,12,16
RTU-10	CARRIER 48HCED12J2A6A2	10.0	—	4,000	740	—	11.5	120.0	90.0	80/67	224	460/3/60	30.0	35.0	—	2018	1,11,12,16
RTU-11	CARRIER 48HCED12J2A6A2	10.0	—	4,000	740	—	11.5	120.0	90.0	80/67	224	460/3/60	30.0	35.0	—	2018	1,11,12,16
RTU-12	CARRIER 48HCED12J2A6A2	10.0	—	4,000	740	—	11.5	120.0	90.0	80/67	224	460/3/60	30.0	35.0	—	2018	1,11,12,16
RTU-13	CARRIER 48HCED12J2A6A2	10.0	—	4,000	740	—	11.5	120.0	90.0	80/67	224	460/3/60	30.0	35.0	—	2018	1,11,12,16

- NOTES:
- LABEL EACH RTU AND EXHAUST FAN WITH "URBAN AIR" AND UNIT NUMBER.
 - COOLING CAPACITY IS BASED ON 80°F EDB AND 67°F EWB CONDITIONS.
 - PROVIDE PROGRAMMABLE ROOM THERMOSTAT, HONEYWELL T6 PRO SERIES WIFI COMPATIBLE WITH LOCKOUT.
 - PROVIDE UNWired CONVENIENCE OUTLET (ELECTRICIAN SHALL FIELD WIRE TO 208V PANEL) AND 14" ROOF CURB.
 - VERIFY VOLTAGE AVAILABLE ON SITE PRIOR TO ORDERING NEW UNITS. OBTAIN STRUCTURAL APPROVAL PRIOR TO PLACING UNIT. ADJUST BREAKERS/WIRE SIZES FOR ACTUAL EQUIPMENT DELIVERED TO THE JOB SITE, IF DIFFERENT THEN SHOWN.
 - UNIT PROVIDED WITH DUAL COMPRESSORS/2-STAGE COOLING.
 - PROVIDE FACTORY ELECTROFIN OR EQUAL ANTI-CORROSION COATING ON OUTDOOR COILS.
 - WEIGHT DOES NOT INCLUDE ACCESSORIES.
 - ORDER WITH ACCESSORIES INCLUDING: CURB, ECONOMIZER, HAIL GUARD, 2-POSITION DAMPER, DUAL ENTHALPY SENSORS, DUCT DETECTORS, BAROMETRIC RELIEF, ETC.
 - MCA BASED ON MEDIUM STATIC FAN.
 - LANDLORD TO FULLY SERVICE AND WARRANTY FOR ONE(1) YEAR.
 - BRING EXISTING UNIT TO LIKE NEW OPERATING AND PERFORMANCE CONDITIONS. COMB OUT FINS, CHANGE BELTS, BRING TO FACTORY SPEC REFRIGERANT LEVELS.
 - HUMID-MIZER
 - VERIFY VOLTAGE AVAILABLE ON SITE PRIOR TO ORDERING ANY NEW EQUIPMENT.
 - ECONOMIZER SHALL HAVE CAPABILITY TO RUN DOWN BELOW 40°F OUTSIDE TEMPERATURE (LOW AMBIENT CAPABILITY).
 - IT IS UNKNOWN IF EXISTING UNIT UTILIZES POWERED EXHAUST. WHERE EXISTING UNIT DOES NOT UTILIZE POWERED EXHAUST, PROVIDE 30A 3-POLE BREAKER IN LIEU OF 35A 3-POLE BREAKER.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	DRIVE	AIRFLOW (CFM)	EXT. SP (IN W.C.)	V, PH, HZ	POWER	SERVICE	APPROXIMATE WEIGHT (LBS)	INSTALL LOCATION	NOTES
KEF-1 (NEW)	ACME	PDURG135RG	DIRECT	1,800	1.00"	208/3/60	1/2 (HP)	PIZZA OVEN	21.0	ROOF	4,5
EF-1 (NEW)	GREENHECK	G-099-VG	DIRECT	900	0.50"	120/1/60	1/4 (HP)	RESTROOMS	41.0	ROOF	1,4,6
EF-2 (NEW)	GREENHECK	SP-B110	DIRECT	75	0.30"	120/1/60	80 (WATTS)	RESTROOM	11.0	CEILING	1,2,3
EF-3 (NEW)	GREENHECK	SP-B110	DIRECT	75	0.30"	120/1/60	80 (WATTS)	RESTROOM	11.0	CEILING	1,2,3
EF-4 (NEW)	GREENHECK	SP-B110	DIRECT	75	0.30"	120/1/60	80 (WATTS)	RESTROOM	11.0	CEILING	1,2,3

- PROVIDE WITH BACKDRAFT DAMPER.
- CEILING MOUNTED EXHAUST FAN, PROVIDE WITH ROOF VENT CAP.
- INTERLOCK FAN WITH LIGHT SWITCH.
- PROVIDE WITH 12" ROOF CURB.
- FAN PROVIDED WITH PIZZA OVEN HOOD. COORDINATE WITH VENDOR FOR FINAL SPECIFICATION.
- FAN TO BE CONTROLLED BY TIME CLOCK.

AIR DEVICE SCHEDULE

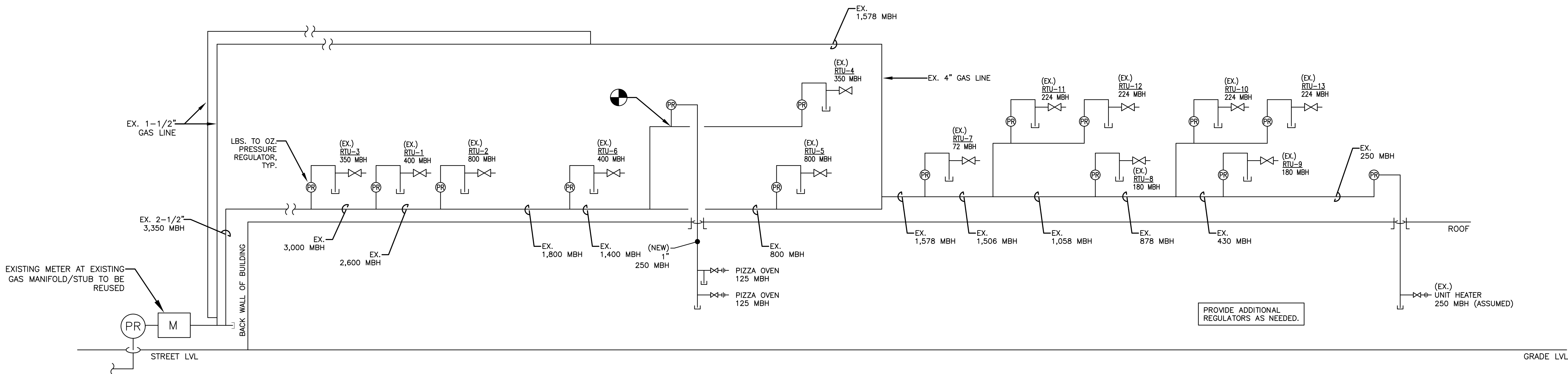
SYMBOL	TAG	MANUF.	CATALOG #	FIXTURE DESCRIPTION	NECK SIZE	REMARKS
	A	TITUS	TMS	24x24 SUPPLY GRILLE/ 12x12 SUPPLY GRILLE	SEE PLAN	ALUMINUM, BORDER TYPE 1 IN GYP. BD. CLG. PAINTED BLACK TO MATCH CEILING WHERE CEILING IS NOT WHITE, REF ARCH. SHEETS.
	B	NAILOR	51EC	12x24 RETURN GRILLE	SEE PLAN	EGGCRATE, BORDER TYPE 1
	C	NAILOR	51EC	24x24 RETURN GRILLE/ 12x12 RETURN GRILLE	SEE PLAN	EGGCRATE, BORDER TYPE 1, PROVIDE FILTER-TYPE RETURN GRILLES WHERE INSTALLED IN THE KITCHEN.
	D	NAILOR	61DV-0	SIDEWALL SUPPLY, 1/2" WIDTH, WHITE.	---	SURFACE MOUNT, EACH SHALL HAVE NECK VOLUME DAMPER.
	E	TITUS	350FL	SIDEWALL RETURN	---	LOUVERED, BLADES PARALLEL TO LONG DIMENSION. REFER TO PLANS FOR GRILLE SIZE.
	F	TITUS	TMV-4	CONCENTRIC DIFFUSER	---	4 DIRECTIONAL CONCENTRIC DIFFUSER.
	G	TITUS	TMV-6	CONCENTRIC DIFFUSER	---	6 DIRECTIONAL CONCENTRIC DIFFUSER.
	H	TITUS	TMSA-FR	24x24 SUPPLY GRILLE	SEE PLAN	FIRE RATED, BUTTERFLY DAMPER IN NECK
	J	TITUS	PAR-FR	24x24 RETURN GRILLE	SEE PLAN	FIRE RATED, BORDER TYPE 1
	K	TITUS	DL	25x15 SUPPLY DRUM LOUVER	25X15	HIGH CAPACITY, LONG THROW, DUCT MOUNTED SUPPLY AIR LOUVER.

- NOTE:
- ALL GRILLES IN GYP BOARD CEILING SHALL BE ORDERED WITH INTEGRAL BALANCING DAMPERS.
 - PROVIDE RECTANGULAR TO ROUND ADAPTERS WHEREVER NECESSARY.
 - NOT ALL DEVICES USED ON ALL JOBS.
 - TRANSITION NECK SIZE ON SUPPLY AND RETURN AS NEEDED TO ENSURE SAME SIZE (WITHIN 2") SUPPLY AND RETURN REGISTERS FOR UNIFORM APPEARANCE.
 - PROVIDE INSULATED BACKING ON ALL AIR DEVICES.

AIR BALANCE SCHEDULE

UNIT	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST	PRESSURE	AREA SERVED
RTU-1	16,000	13,000	3,000	—	+3,000	PLAY AREA
RTU-2	16,000	13,000	3,000	—	+3,000	PLAY AREA
RTU-3	12,000	9,785	2,215	—	+2,215	PLAY AREA
RTU-4	12,000	9,785	2,215	—	+2,215	PLAY AREA
RTU-6	16,000	13,000	3,000	—	+3,000	PARTY RMS/ PLAY
RTU-8	3,000	2,575	425	—	+425	KITCHEN
RTU-10	4,000	3,260	740	—	+740	PLAY AREA
RTU-11	4,000	3,260	740	—	+740	PLAY AREA
RTU-12	4,000	3,260	740	—	+740	PLAY AREA
RTU-13	4,000	3,260	740	—	+740	PLAY AREA
KEF-1	---	---	---	1,800	-1,800	PIZZA OVEN
EF-1	---	---	---	900	-900	RR
EF-2	---	---	---	75	-75	RR
EF-3	---	---	---	75	-75	RR
EF-4	---	---	---	75	-75	RR
TOTAL	91,000	74,185	16,815	2,925	+13,890	---

*NEW UNITS SHALL BE EQUIPPED WITH ECONOMIZER WITH FULL SIZE BAROMETRIC RELIEF.



01 GAS RISER DIAGRAM
SCALE: NOT TO SCALE

LINE SIZES SHOWN HERE ARE BASED ON MEDIUM PRESSURE GAS PIPE (2 PSI) AND 850' TOTAL DEVELOPED LENGTH. THESE SIZES REPRESENT MINIMUM LINE SIZES. NOTIFY ENGINEER FOR RESIZING IF ANY OTHER EQUIPMENT IS SERVED BY EXISTING LINES BEYOND WHAT IS SHOWN HERE, OR IF TOTAL DEVELOPED LENGTH EXCEEDS 850' FOR RESIZING OF LINES. PROVIDE POUNDS TO OUNCES REGULATORS AT EACH UNIT.



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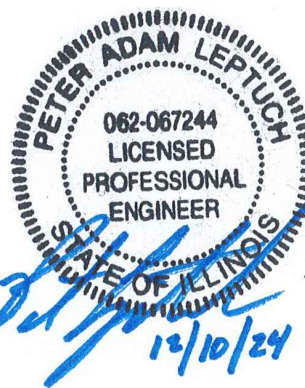
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No.	Description	Date
A	Issue for Permit	2024.12.20

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CHECKED BY: BA

PROJ. NO: 23-053

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MECHANICAL
SCHEDULES

M3.0

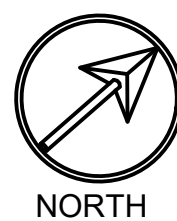
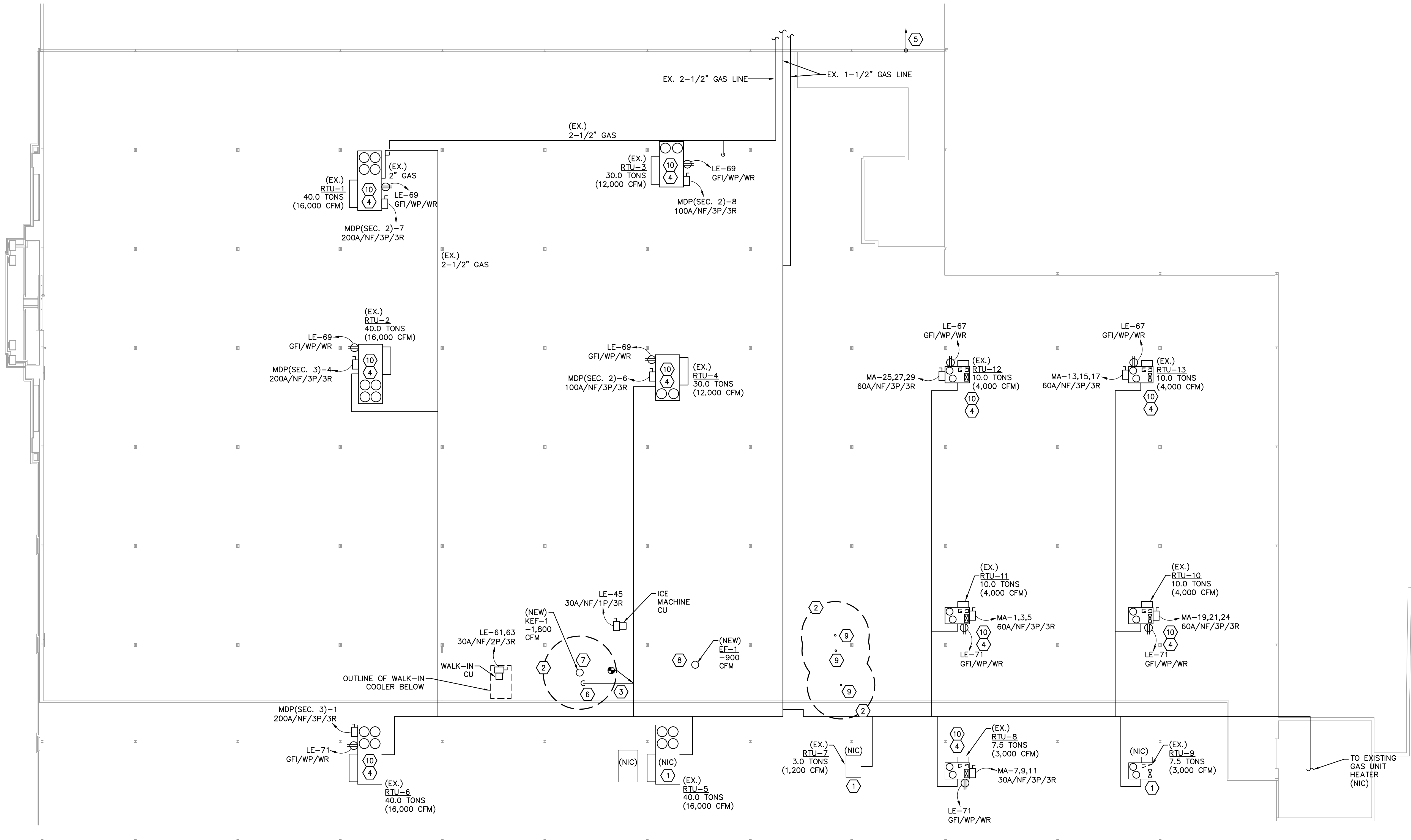
1. ELECTRICAL CONTRACTOR SHALL REFER TO ALL MECHANICAL, PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED BELOW, ANY MODIFICATION AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
2. ELECTRICAL CONTRACTOR SHALL CHECK THE ROTATION OF ALL THREE PHASE MOTORS AND CORRECT THE ROTATION IF REVERSED.
3. ALL TEMPERATURE CONTROL AND INTERLOCK WIRING SHALL BE BY HVAC CONTRACTOR UNLESS NOTED OTHERWISE.
4. ELECTRICAL CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF CATALOG CUTS FOR ALL SCHEDULED EQUIPMENT FURNISHED BY THIS CONTRACTOR FOR ARCHITECT/ENGINEER REVIEW.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE THE ROUTING OF POWER WIRING TO ROOF-MOUNTED EQUIPMENT WITH MECHANICAL PIPE CURB ASSEMBLY. NO SEPARATE ROOF PENETRATIONS WILL BE PERMITTED UNLESS OTHERWISE SPECIFIED BY LANDLORD'S NEW ROOFING WARRANTY.
6. ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT SMOKE DETECTORS IN THE RETURN AND SUPPLY AIR PLENUM AND A FAN SHUT DOWN RELAY FOR ALL AIR SUPPLY UNITS. DETECTORS TO BE INSTALLED BY MECHANICAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A WEATHER PROOF, GROUND FAULT INTERRUPTER TYPE RECEPTACLE, AT AN ACCESSIBLE LOCATION FOR SERVICING ON ROOFTOP HEATING AND AIR CONDITIONING EQUIPMENT. THIS RECEPTACLE SHALL BE LOCATED WITHIN 25 FEET AND AT THE SAME LEVEL OF THIS EQUIPMENT.

FIELD VERIFY LOCATION OF VTR, INSTALL AFTER ALL HVAC UNITS ARE IN PLACE TO ENSURE NO VENT IS WITHIN 10'-0" OF ANY FRESH AIR INTAKE AND THAT NO EXTRA / UNNECESSARY ROOF PENETRATIONS ARE MADE.

REFER TO SHEET
M3.0 FOR GAS RISER.

B. THE G.C. SHALL VERIFY EXACT W.I.C. AND W.I.F. SPECS WITH VENDOR AND ADJUST INSTALLATION LOCATION AS NEEDED. VERIFY PRIOR TO PULLING WIRE.

1. CONTRACTORS AND SUB CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS TO BE OBTAINED THROUGHOUT THE CONSTRUCTION AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERRING THE COMPLETE DOCUMENT SET.
2. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER AND CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.
3. ALL ROOFING WORK (CURBS, REPAIRS, SPUD WORK, ETC.) SHALL BE PERFORMED BY THE LANDLORD'S APPROVED ROOFING CONTRACTOR.
4. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC SHOWING THE GENERAL LOCATION, EQUIPMENT TYPE AND LAYOUT, THE DRAWINGS SHALL NOT BE SCALED. CURB MEASUREMENTS BY LANDLORD, MANUFACTURERS STANDARD BE DONE. GENERAL DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS.
5. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, BOCA, NEC AND IBC OR ANY INTERIM CODES AT THE TIME OF THE WORK. THE CONTRACTOR SHALL PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK AND OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
6. FLEXIBLE DUCT SHALL NOT EXCEED 5" IN LENGTH, ONLY ONE 90 DEGREE ELBOW ALLOWED IN FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE INSTALLED FREE OF ANY KINKS OR RESTRICTIONS THAT WOULD REDUCE AIRFLOW. FLEX DUCT ALLOWED ONLY ABOVE CONCEALED CEILINGS.
7. WHERE APPLICABLE, UNITS SHALL USE SAME ROOF PENETRATION IF POSSIBLE. IF CURB REQUIREMENT LANDLORD, MANUFACTURERS STANDARD BE DONE SHALL BE BY LANDLORD-APPROVED ROOFING CONTRACTOR. ANY NEW RTU LOCATIONS SHALL BE APPROVED BY STRUCTURAL ENGINEER.
8. WHERE SPECIFIED, TENANT'S G.C. SHALL PROVIDE TEST AND BALANCE REPORT (BY NEBB/AAEC CONTRACTOR) TO OWNER PRIOR TO COMPLETION OF WORK TO ENSURE PROPER SUPPLY, RETURN AND OUTSIDE AIRFLOWS.
9. TENANT IS NOT TO SUSPEND ANY ITEMS FROM THE BOTTOM OF THE ROOF DECK. TENANT IS NOT TO SUSPEND ANY ITEMS FROM THE BOTTOM ROOF JOIST OR JOIST CHORDS. TENANT MUST OBTAIN WRITTEN APPROVAL OF THE BUILDING DEPARTMENT/STRUCTURAL ENGINEER OF RECORD. TENANT IS TO SUBMIT PROPOSED DETAILS, FOR ITEMS TO BE SUSPENDED FROM THE ROOF DECK, FOR REVIEW BY SEE IN STRUCTURAL ENGINEER. IN GENERAL, NO DUCT WORK, CONDUTIS, PIPES, BANNERS, SIGNAGE, OR CURTAIN/SUSPENDED FURR-DOWNS OR WALLS ARE TO BE SUSPENDED FROM THE BOTTOM OF THE ROOF STRUCTURE, WITHOUT APPROVAL AND TENANT FINISH-OUT WORK IS TO BE COMPLETED FIRST. IF ANY OTHER ITEMS ARE TO BE SUSPENDED BRIDGING OR FROM X-BRACING OR FROM THE BOTTOM OF THE ROOF DECK, SUSPENDED TEE GRID CEILING AND LIGHT FIXTURES MUST BE SUSPENDED FROM THE BOTTOM OF THE ROOF DECK AND BOTTOM OF THE JOIST CHORDS. IN MAXIMUM WEIGHTS OF SEVENTY-FIVE (75) POUNDS AT BOTTOM CHORD JOIST PANEL POINTS, WITHOUT ADDED STEEL ANGLE REINFORCING UP TO TOP JOIST CHORDS. SUSPENDED CEILING AND LIGHT FIXTURES ARE NOT TO BE SUSPENDED FROM THE BOTTOM OF THE ROOF DECK.
10. CONTRACTOR MAY ADJUST VENT LINE LOCATIONS AND REUSE EXISTING VTR(S) WHERE VENT IS NOT WITHIN 10"-0" OF AN EXISTING OR PROPOSED FRESH AIR INTAKE.
11. THE MEP PANS SHALL NOT BE STRUCTURAL ENGINEERING STANDARDS. OBTAIN STRUCTURAL APPROVAL PRIOR TO SETTING ANY NEW EQUIPMENT ON ROOF, AND PRIOR TO USING ANYTHING TO STRUCTURE THAT MAY IMPACT THE STRUCTURAL INTEGRITY OF THE SPACE.
12. MAINTAIN 3'-0" CLEAR SPACE AROUND ALL EQUIPMENT FOR MAINTENANCE AND SERVING.
13. ADD PRESS REG. REGULATORS AS NEEDED WHERE 2 PSI GAS IS EXISTING AT THE GAS METER BANK. VENT REGULATOR TO OUTDOORS.



01 MEP ROOF PLAN
SCALE: 1/16"=1'-0"

- 1 EXISTING RTU - NOT IN SCOPE OF WORK.
- 2 MAINTAIN "10'-0" OUTSIDE AIR INTAKES AND ALL EXHAUST SOURCES, MECHANICAL CONTRACTOR SHALL PROVIDE OFFSETS AS NEEDED TO ENSURE EXHAUST FANS ARE "10'-0" AWAY FROM NEIGHBORING TENANT'S FRESH AIR INTAKES.
- 3 PROVIDE ROOF GAS PIPE SUPPORT EVERY 10'-0" ON CENTER AND AT EVERY CHANGE IN DIRECTION.
- 4 REMOVE / REPLACE AS NEEDED. CONDENSATE SHALL RUN FROM 10' TO APPROVED RECEPTOR. CONDENSATE SHALL BE INSULATED WHERE INSTALLED WITHIN BUILDING. REROUTE TO NEW APPROVED RECEPTOR AS NEEDED.
- 5 ROOF ACCESS VIA ROOF HATCH LOCATED IN THE PLANET FITNESS SPACE, APPROXIMATELY 250 FT. FROM THIS POINT.
- 6 GAS PIPE DOWN THROUGH ROOF TO PIZZA OVEN.
- 7 14X14 PIZZA HOOD EXHAUST DUCT UP THROUGH ROOF FAN AND ROOF CURB. FLASH AND COLLAR ROOF PENETRATION. FAN SERVES THE COMBO PIZZA OVEN / HOOD.
- 8 14X14 EXHAUST DUCT UP THROUGH ROOF TO NEW FAN ON NEW ROOF CURB. FLASH AND COLLAR ROOF PENETRATION
- 9 NEW 6" Ø EXHAUST DUCT UP THROUGH ROOF TO ROOF CAP. FLASH AND COLLAR ROOF PENETRATION.
- 10 EXISTING RTU TO REMAIN.



ELECTRICAL SPECIFICATIONS

16010 WORK INCLUDED

- 1.1 CONTRACTOR SHALL PROVIDE THE FOLLOWING:
- a. LABOR
 - b. SUPPLIES
 - c. MATERIALS
 - d. SHOP DRAWINGS
 - e. PERMITS AND INSPECTION FEES
 - f. CERTIFICATION OF FINAL INSPECTION AND APPROVAL
 - g. ONE YEAR GUARANTEE
- 1.2 CONTRACTOR SHALL PERFORM THE FOLLOWING:
- a. INSTALLATION OF ALL ELECTRICAL EQUIPMENT.
 - b. COORDINATE WITH OTHER TRADES OF ELECTRICAL EQUIPMENT INSTALLATION.
 - c. MATERIAL PROTECTION DURING CONSTRUCTION
 - d. TEST OF ENTIRE SYSTEM IN PRESENCE OF OWNER OR HIS REPRESENTATIVE AND CORRECT ANY DEFICIENCIES DISCOVERED.
 - e. COORDINATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY.
 - f. COORDINATION OF TELEPHONE SERVICE WITH LOCAL TELEPHONE COMPANY.
- 1.3 GOVERNING CODES SHALL BE THE FOLLOWING:
- a. LOCAL MUNICIPALITY ELECTRICAL CODE.
 - b. PER LATEST NATIONAL ELECTRICAL CODE (NEC)
 - c. UTILITY COMPANY REGULATIONS
 - d. AMERICANS WITH DISABILITY ACT
 - e. CURRENT APPLICABLE BUILDING CODES
 - f. LOCAL BUILDING CODES AND ORDINANCES
 - g. THE NATIONAL MANUFACTURER'S ASSOCIATION STANDARDS (NEMA)
 - h. UNDERWRITER LABORATORIES INCORPORATED STANDARD(S)
 - i. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
 - j. THE MANUFACTURER'S RECOMMENDATION
- 1.4 MATERIAL WILL BE:
- a. NEW
 - b. UL LISTED

16110 RACEWAYS

- 1.1 USE AND TYPES
- a. SERVICE ENTRANCE – RIGID STEEL
 - b. FEEDERS – RIGID STEEL EXCEPT ABOVE 8'-0" AND INDOOR THEN EMT
 - c. BRANCH CIRCUIT, TELEPHONE OR COMMUNICATIONS – EMT
 - d. IN EARTH OR CONCRETE – SCHEDULE 40 PVC
 - e. RECESSED LIGHTING FIXTURES – FLEXIBLE STEEL CONDUIT (SHORT BUT MAXIMUM 72")
 - f. OUTDOOR FINAL CONNECTION TO EQUIPMENT OR IN WET LOCATIONS – LIQUID TIGHT FLEXIBLE STEEL CONDUIT (MAXIMUM 36")
 - g. ALL RACEWAYS, UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, SHALL BE CONCEALED IN WALLS, CEILING OR FLOORS.
 - c. PAINT ALL EXPOSED RACEWAYS COLOR AS DIRECTED BY ARCHITECT.
- 1.2 CONDUIT BUSHING.
- a. PROVIDE INSULATED CONDUIT BUSHING AT EACH END OF EVERY CONDUIT RUN.

16120 WIRES AND CABLES 600 VOLTS

- 1.1 COLOR CODING 208Y/120V 480Y/277V
- | | | |
|---------|-------|--------|
| PHASE A | BLACK | BROWN |
| PHASE B | BLUE | YELLOW |
| PHASE C | RED | ORANGE |
| NEUTRAL | WHITE | WHITE |
| GROUND | GREEN | GREEN |
- 1.2 INSULATED, THHN, THWN, XHHW 75 DEGREE C (THWN OR BETTER, WET-RATED FOR BELOW GRADE).
- 1.3 PROVIDE COPPER WIRING UNLESS ALUMINUM IS SPECIFICALLY SOWN ON THE DRAWINGS. WHEN ALUMINUM CONDUCTORS ARE UTILIZED – PROVIDE COMPRESSION LUG FITTINGS.
- 1.4 FIXTURE WIRE, 600 VOLTS, 200 DEGREE C, #14 AWG MINIMUM STRANDED, TINNED COPPER WITH SILICONE RUBBER INSULATION AND AN OVERALL JACKET OF GLASS BRAID, AND RATED AS NEC TYPE "SF"-2

16130 BOXES

- 1.1 ATTACHED SECURELY TO BUILDING CONSTRUCTION OR SUPPORT FROM SAME
- 1.2 MASONRY BOXES SHALL BE RACO OR STEEL CITY
- 1.3 EXPOSED BOXES SHALL BE CAST TYPE SIMILAR TO GROUSE HINDS TYPE FS
- 1.4 ALL OTHERS SHALL BE STAMPED STEEL

16140 WIRING DEVICES

- 1.1 RECEPTACLES
- DUPLEX – 20 AMPS, 125V. AC GROUNDED UNO
- SINGLE – 20 AMPS, 125V. AC GROUNDED UNO
- COORDINATE COLOR OF DEVICE WITH ARCHITECT.
- COORDINATE FINISH AND COLOR OF COVER PLATE WITH ARCHITECT.
- 1.2 WALL SWITCHES
- SINGLE POLE – 20 AMPS, SINGLE THROW, QUIET TYPE, GROUNDED
- COORDINATE COLOR OF DEVICE WITH ARCHITECT.
- COORDINATE FINISH AND COLOR OF COVER PLATE WITH ARCHITECT.
- 1.3 TIME CLOCK
- FURNISH AND INSTALL A TWENTY-FOUR (24), SEVEN (7) DAY TIME CLOCK INCLUDING ALL INTEGRAL WIRING AND LOAD BALANCING (PANEL) FOR CONTROLLING THE STOREFRONT SIGN AND SHOW WINDOW LIGHTING, WHETHER SUCH WORK IS OR IS NOT SHOWN ON PLANS OR SPECIFICATIONS

16170 PANEL BOARDS

- 1.1 PANEL BOARDS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
- A. THREE PHASE, 4 WIRE, COPPER BUSING, NEMA 1 ENCLOSURE FOR INDOOR, NEMA 3R FOR OUTDOOR.
 - a. GROUND BUS WITH SET SCREW CONNECTIONS
 - b. SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
 - c. SWITCH RATED BOLT-ON BREAKERS
 - d. TYPE WRITTEN DIRECTORY
 - e. PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
 - f. SQUARE D, GENERAL ELECTRIC OR SIEMENS
 - B. EXCEPT, SINGLE PHASE PANELS SHALL BE USED FOR PROJECTS THAT HAVE SINGLE-PHASE POWER AND FOR SUB-PANELS ON DELTA HI-LEG PROJECTS.

16190 GROUNDING

- 1.1 FEEDERS AND BRANCH CIRCUITS
- PROVIDE A GREEN INSULATED GROUND CONDUCTOR, SIZED PER THE NEC IN EACH RACEWAY

16200 LIGHTING FIXTURES

- 1.1 COORDINATE FIXTURE TRIMS WITH CEILING IN/ON WHICH IT IS BEING INSULATED.
- 1.2 MATCH VOLTAGE OF FIXTURE TO CIRCUIT TO CIRCUIT TO WHICH FIXTURE IS SHOWN CONNECTED
- 1.3 PROVIDE LOW TEMPERATURE HIGH EFFICIENCY ELECTRONIC BALLASTS IN FLUORESCENT FIXTURES
- 1.4 PROVIDE THERMAL OVERLOAD PROTECTION IN BOTH FLUORESCENT AND INCANDESCENT FIXTURES
- 1.5 NARRATIVE DESCRIPTION IN LIGHTING FIXTURE SCHEDULE TAKES PRECEDENCE OVER CATALOG NUMBER
- 1.6 PROVIDE INTEGRAL DISCONNECTING MEANS FOR ALL FLUORESCENT FIXTURES PER THE NEC
- 1.7 ORDER DIMMABLE VERSION OF FIXTURES WITH COMPATIBLE DIMMERS WHERE INDICATED AND WHERE NECESSARY TO COMPLY WITH ENERGY CODE.

PROTOTYPICAL "NO SURPRISE" MEP BID NOTE:
EACH SET OF DRAWINGS IS INDIVIDUALLY ASSEMBLED AND AN ATTEMPT IS MADE TO INCLUDE LEASE SCOPE IN THE DRAWING SET. HOWEVER, THE CONTRACTOR SHALL VISIT THE SITE TO CONFIRM WHAT IS LISTED AS EXISTING BY LANDLORD, OR SIMILAR IS ACTUALLY THERE, AND IF IT IS NOT, THE CONTRACTOR SHALL PROVIDE ITEMIZED BID TO COMPLETE SUCH GAP WORK TO ENSURE ALL WORK THAT WILL BE REQUIRED BY CONTRACTOR IS INCLUDED IN THE CONTRACTOR'S SCOPE. IF THE CONTRACTOR PROVIDES A BULK BID OR SINGLE PRICE BID, IT WILL INCLUDE EVERYTHING REQUIRED TO BUILD A COMPLETE STORE, INCLUDING ANY WORK "BY OTHERS" THAT IS NOT PRESENT.

16210 EXISTING CONDITION

- 1.1 VISIT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS IN AND AROUND THE BUILDINGS

16220 TELEPHONE SERVICE

- 1.1 SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, 600 OR 250 VOLT, WITH NUMBER OF POLES REQUIRED. FUSED SAFETY SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK MECHANISM, VISIBLE BLADES WITH REJECTION TYPE FUSE CLIPS AND NEMA CLASS "LPJ" FUSES, THE SWITCHES SHALL BE NEMA 3R FOR OUTDOOR. ALL SWITCHES SHALL BE LOCKABLE.

PLUMBING SPECIFICATIONS

SECTION 15-A – PLUMBING

15A-01 GENERAL

ALL PLUMBING WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA, THE STATE, COUNTY, CITY, LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. INCORPORATE ALL REQUIREMENTS WITH THIS WORK, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT. ADVISE ARCHITECT IF REQUIREMENTS ARE CONTRARY TO THESE PLANS. IT IS INTENDED THAT THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO HIS WORK.

CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING WATER SUPPLY AND DRAIN LINES AND MAKE PROPER CONNECTION THERETO, INCLUDING VENTS.

ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY ALL DIMENSIONS AT THE SITE.

ALL VALVES, CLEANOUTS, ETC., SHALL BE SO LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIAL.

ALL PLUMBING EQUIPMENT AND WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY LANDLORD AND TENANT.

UNLESS NOTED OTHERWISE, THE BASELINE DESIGN ASSUMES THAT A GRAVITY FLOW SYSTEM MAY BE ACHIEVED. NOTIFY ARCHITECT IF INVERTS ARE TOO SHALLOW AND A LIFT STATION IS REQUIRED.

ALL PLUMBING EQUIPMENT AND WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY LANDLORD AND TENANT.

UNLESS NOTED OTHERWISE, THE BASELINE DESIGN ASSUMES THAT A GRAVITY FLOW SYSTEM MAY BE ACHIEVED. NOTIFY ARCHITECT IF INVERTS ARE TOO SHALLOW AND A LIFT STATION IS REQUIRED.

15A-02 MATERIALS

REFER TO SHEET P2.0 FOR PLUMBING MATERIALS TABLES
REFER TO PLANS FOR SCHEDULES OF EQUIPMENT AND FIXTURES. AMERICAN STANDARD, KOHLER AND CRANE ARE CONSIDERED ACCEPTABLE AS EQUALS. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SANITARY PIPING

WHERE NOT OTHERWISE SPECIFIED THROUGHOUT THE DRAWING SET, WASTE, DRAIN AND VENT PIPING SHALL BE PER LOCAL CODE AND AUTHORITY HAVING JURISDICTION. VENT PIPING ABOVE FLOOR 2" OR SMALLER MAY BE GALVANIZED STEEL.

PROVIDE LINE-ITEM BID TO UTILIZE PVC, OBTAIN APPROVAL FROM INSPECTOR PRIOR TO INSTALLATION THAT PVC IS ALLOWED FOR THE SPECIFIC HVAC LAYOUT FOR THIS PROJECT.

INSULATE THE TRAP, SANITARY AND SUPPLY PIPES UNDER LAVATORY WITH 1/2" ARMSTRONG "ARMAFLEX" PIPING INSULATION OR TUBERO MODEL 102W "HANDI LAV GUARD" INSULATION KIT.

CLEAN-OUTS AND FLOOR DRAINS SHALL BE INSTALLED PER LOCAL CODES.

CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE WITH 95-5 TIN-ANTIMONY SOLDERED JOINTS AND WROUGHT COPPER FITTINGS WITH DIELECTRIC SEPARATION BETWEEN DISSIMILAR METALS. CONDENSATE PIPING BELOW ROOF DECK MAY BE PVC. PROVIDE SHARKBITE TRANSITION FROM PVC TO COPPER.

ANY WASTE PIPING EXPOSED IN PARKING AREAS SHALL BE PROTECTED FROM MECHANICAL DAMAGE. PROVIDE WITH FREEZE PROTECTION (HEAT TAPE & INSULATION) WHERE SUBJECT TO POSSIBLE FREEZING CONDITIONS.

POTABLE WATER PIPING

WATER PIPING IN CEILING SPACE AND WITHIN WALLS MAY BE TYPE "L" COPPER OR PEX, INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHARK-BITE TRANSITIONS, OR APPROVED EQUALS.

BELOW GRADE: TYPE "K", ANNEALED TEMPERED COPPER TUBE FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.

WHERE APPLICABLE, TRANSITIONS BETWEEN COPPER AND PLASTIC PIPE SHALL BE MADE BY SHARKBITE OR SIMILAR TRANSITIONS, RATED FOR USE WITH SUCH MATERIALS AS ARE BEING USED.

PIPING OF DISSIMILAR METALS MUST BE DI-ELECTRICALLY SEPARATED.

INSULATE ALL HOT WATER, COLD WATER AND CONDENSATE PIPING WITH 1" THICK (K=0.23 @ 75°F) PIPE INSULATION WITH AN ALL-SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS. OWENS-CORNING OR EQUAL.

INSTALL AIR CHAMBER SHOCK ABSORBERS IN BOTH HOT AND COLD LINES OF PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER. J.R. SMITH 5000 SERIES ALL STAINLESS STEEL "HYDROTROLS" OR EQUAL, INSTALLED IN AN UPRIGHT POSITION.

ALL BRANCH PIPING SYSTEMS SHALL HAVE ACCESSIBLE SERVICE VALVE. PROVIDE SHUT OFF VALVES ON THE SUPPLY PIPING TO EVERY FIXTURE. PROVIDE ACCESS DOORS WHERE NECESSARY.

INSTALL ALL NECESSARY PIPE HANGERS, SADDLES AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING AND SEISMIC BRACING WHERE REQUIRED BY CODES.

STERILIZE WATER SYSTEM IN ACCORDANCE WITH LOCAL CODES PRIOR TO BEGINNING USE.

ESCUTCHEONS SHALL BE CHROME PLATED, SIZE AS REQUIRED AND PLACE AT ALL PIPE PENETRATIONS AT WALL, FLOORS AND CEILINGS IN FINISHED AREAS.

LEAKAGE TESTS SHALL BE PER LOCAL CODES.

FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE TO THE LANDLORD'S CRITERIA. USE LANDLORD APPROVED ROOFING CONTRACTOR WHERE APPLICABLE.

GAS PIPING

PROVIDE A COMPLETE GAS PIPING SYSTEM IF APPLICABLE. REFER TO PLANS TO DETERMINE IF A GAS SYSTEM IS REQUIRED. GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-120, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2 1/2" AND LARGER.

PROVIDE A GAS COCK, DIRT LEG, AND UNION CONNECTION TO EACH PIECE OF EQUIPMENT.

PITCH PIPING AT A UNIFORM GRADE OF 1/4" IN 15 FEET UPWARD IN DIRECTION OF FLOW. SUPPORT PIPING EVERY 5 FEET. SUPPORT AS REQUIRED BY LANDLORD CRITERIA, AS DETAILED ON DRAWINGS, OR BY STANDARD INDUSTRY PRACTICE, WHICHEVER IS MORE STRINGENT.

GAS PIPING EXPOSED ON ROOF MUST BE PAINTED WITH TWO COATS OF RUST-INHIBITING PAINT.

GAS PIPING INSTALLED IN RETURN AIR PLenums SHALL BE SLEEVED AND VENTED OR WELDED IN ACCORDANCE WITH THE LOCAL GAS COMPANY, LOCAL CODE AND APPLICABLE NFPA 54 CODES. TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES AND APPLICABLE NFPA 54 CODES.

CONTACT AND COORDINATE GAS SERVICE AND METER REQUIREMENTS WITH THE LOCAL GAS COMPANY PRIOR TO BID. INCLUDE INSTALLATION OF GAS METER COSTS IN BID. PROVIDE REGULATORS AS NEEDED.

*PROPANE
WHEN PROPANE GAS IS USED, PROVIDE TANK. VERIFY LOCATION ON SITE. COORDINATE PIPE PATH TO BUILDING.

MECHANICAL SPECIFICATIONS

SECTION 15-C – HEATING, VENTILATION, AIR CONDITIONING

15C-01 GENERAL

ALL WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA, THE STATE, COUNTY, CITY CODES AND ORDINANCES, SAFETY AND HEALTH CODES NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. INCORPORATE ALL REQUIREMENTS INTO THIS WORK, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT. ADVISE ARCHITECT IF REQUIREMENTS CONTRADICT THESE PLANS. IT IS INTENDED THAT THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.

ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO ORDERING OR FABRICATING DUCTWORK.

ALL VALVES, DAMPERS, ETC., SHALL BE SO LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS.

ALL EQUIPMENT AND WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY LANDLORD AND TENANT.

LABEL ALL RTUS WITH RTU# AND TENANT'S NAME.

15C-02 MATERIALS

REFER TO PLANS FOR SCHEDULES OF EQUIPMENT. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST BE TRAPPED IN ACCORDANCE WITH MANUFACTURERS DATA.

BASE BID SHALL BE FOR RIGID METAL DUCTWORK.

FABRICATE AND INSTALL RECTANGULAR AND ROUND DUCTWORK IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" OF THE LATEST EDITION.

INSTALL TURNING VANES IN ALL RIGHT ANGLE ELBOWS OF 1200 CFM OR MORE.

INSTALL RIGID ROUND AND RECTANGULAR WITH SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS.

PROVIDE SWAY AND SEISMIC BRACING AS REQUIRED BY STATE AND LOCAL CODES OR BY LANDLORD.

ALL JOINTS AND SEAMS SHALL BE SEALED. TOTAL LEAKAGE SHALL NOT EXCEED 5% FOR THE SYSTEM.

ALL DUCTWORK SHALL BE INSTALLED WITH INSIDE CLEAR DIMENSIONS AS NOTED ON DRAWINGS. UPSIZE DUCTWORK AS NEEDED WHEN INTERNAL INSULATION IS NEEDED (E.G. DOUBLE-WALL SPIRAL DUCTWORK). WHERE DUCTWORK SIZE IS LARGER THAN CONNECTED DEVICE SMOOTH DUCT TRANSITIONS ARE TO TAKE PLACE JUST PRIOR TO DEVICE CONNECTIONS.

FLEXIBLE COLLARS AT EQUIPMENT SHALL BE PROVIDED IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT AND DUCTS OR CASINGS. FLEXIBLE CONNECTIONS SHALL CONSTRUCTED OF NEOPRENE-COATED FLAMEPROOF FABRIC. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR MOVEMENT AND PREVENT THE TRANSMISSION OF VIBRATION.

FLEXIBLE AIR DUCT AT AIR DEVICES SHALL BE 1" INSULATED CLASS 1 AND RATED FOR THE OPERATING PRESSURE OF THE SYSTEM. DUCT CONSTRUCTION MATERIAL MUST ADHERE TO LOCAL CODES AND LANDLORD'S REQUIREMENTS.

PROVIDE MANUAL LOCKING QUADRANT VOLUME CONTROL DAMPERS WITH HANDLE OPERATORS IN EACH BRANCH DUCT AND AS SHOWN ON PLANS TO FACILITATE AIR BALANCING. ALL RECTANGULAR DAMPERS IN OUTSIDE AIR, RELIEF AIR, EXHAUST OR RETURN AIR DUCTS ARE TO BE OF OPPOSED BLADE TYPE.

PROVIDE PRIMARY FIRE DAMPERS WHERE INDICATED OR REQUIRED BY CODES. FIRE DAMPERS SHALL BE UL LABELED. FIRE DAMPERS SHALL HAVE THE BLADES OUT OF THE AIRSTREAM AND A TEST FUSIBLE LINK, TYPE B, AS MINIMUM.

DUCTWORK INSULATION

WHERE SPIRAL DUCTWORK IS EXPOSED IN CONDITIONED SPACE, PER GUIDANCE FROM SEB BRANDS, THIS DUCT SHALL NOT HAVE INSULATION. CONTRACTOR SHALL ADJUST DUCTWORK SO THAT IT DOES NOT RUN DIRECTLY ABOVE EGRESS PATH WHERE DRIPPING CONDENSATION COULD CAUSE A SLIP AND FALL HAZARD.

INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A.

DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. ALL SUPPLY AND RETURN AIR RECTANGULAR DUCTWORK SHALL BE INSULATED. WHERE INTERNAL INSULATION IS USED, UPSIZE DUCTWORK AND PROVIDE 1" THICK, 1 1/2" LB. DENSITY LINER (C=0.28 @ 75°F.). LINER IS TO HAVE A COATED SURFACE EXPOSED TO AIRSTREAM TO PREVENT EROSION.

APPLY ADHESIVES AND MECHANICAL FASTENERS AS RECOMMENDED BY SMACNA AND THE MANUFACTURER TO PREVENT LINER SEPARATION FROM THE DUCT. ALL TRANSVERSE EDGES TO BE COATED WITH ADHESIVE.

WHERE EXTERNAL INSULATION IS USED, PROVIDE WITH A MINIMUM OF 1 1/2" THICK, #1 DENSITY (R=5.6) DUCT WRAP. ALL JOINTS MUST BE TAPED TO THAT NO INSULATION FIBER IS VISIBLE. EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR PENETRATIONS.

CONCEALED DUCTWORK SHALL BE INSULATED. RETURN AIR DUCTWORK SHALL HAVE 10' OF INTERNAL INSULATION BEGINNING AT DROP FROM UNIT. EXHAUST DUCT MAY BE UNINSULATED. OUTSIDE AIR DUCTS SHALL BE INSULATED FOR RESTAURANT, FITNESS, OR OTHER PROJECTS GENERATING A LARGE AMOUNT OF MOISTURE.

ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NO MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM C 411, OR AS REQUIRED BY LOCAL CODES.

*WHERE APPLICABLE, GREASE DUCT SHALL BE WELDED BLACK IRON AND SHALL HAVE UL-LISTED GREASE DUCT WRAP, 2 LAYERS, INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL PER NFPA 96.

*DRYER DUCTS, WHEN USED, SHALL BE GALVANIZED SHEET METAL WITH 1" INSULATION.

TESTING, ADJUSTING AND BALANCING

BASE BID SHALL BE FOR THE TESTING, ADJUSTING AND BALANCING OF ALL WORK TO BE MADE BY AN INDEPENDENT CONTRACTOR WHO IS A CURRENTLY LICENSED ASSOCIATED AIR BALANCING COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCE BUREAU (NEBB) BALANCING CONTRACTOR. ALL BALANCING WORK MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS OF THEIR SOCIETY. PAYMENT OF ALL COSTS FOR TESTING AND BALANCING SHALL BE INCLUDED IN THE BID.

BALANCE AIR AND WATER QUANTITIES TO WITHIN +/- 5% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST TO THE TENANT.

FOUR COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED TO TENANT AND LANDLORD FOR APPROVAL.

RECORD DRAWINGS

AT THE END OF THE PROJECT THIS CONTRACTOR SHALL SUBMIT 4 COPIES OF RECORD DRAWINGS SHOWING EXACT LOCATIONS OF UNITS, DUCTS, DIFFUSERS, ETC.

ECONOMIZER

GENERALLY, AN ECONOMIZER IS REQUIRED BY THE LATEST VERSIONS OF IECC IN ALL JURISDICTIONS EXCEPT SOUTH FLORIDA (CLIMATE ZONE 1). THE MECHANICAL CONTRACTOR SHALL ORDER ALL NEW ROOF-TOP HVAC UNITS WITH ECONOMIZERS. THE MECHANICAL CONTRACTOR SHALL ORDER ALL SPLIT SYSTEMS, FAN COIL UNITS, WATER SOURCE HEAT PUMPS, OR OTHER MECHANICAL UNITS THAT ARE TO BE OPERATED MORE THAN 20 HOURS PER WEEK WITH ECONOMIZERS, FACTORY INSTALLED WHERE POSSIBLE OR WITH CAPABILITY FOR ECONOMIZER WHERE CONTROLS ARE TO BE FIELD INSTALLED, AND TO INSTALL ALL COMPONENTS – SUCH AS OUTSIDE AIR DUCTS AND DUAL ENTHALPY SENSORS, CONTROLS, ETC. THE CONTRACTOR SHALL VERIFY WITH THE LOCAL INSPECTOR WHAT VERSION OF ENERGY CODE IS ENFORCED IN THE JURISDICTION OF THE PROJECT AND FOR UNITS OTHER THAN PACKAGED ROOFTOP UNITS MAY OMIT THE ECONOMIZER PACKAGE WHERE THE AHJ DOES NOT REQUIRE IT. ON BUILDINGS WITH LESS THAN 25 TONS OF INSTALLED HVAC, WHERE UNITS ARE 4.5 TONS OR SMALLER, THE ECONOMIZER EXEMPTION MAY BE USED UNDER SOME CIRCUMSTANCES. VRF SYSTEMS TYPICALLY DO NOT REQUIRE ECONOMIZERS.

HVAC UNIT SEQUENCE OF OPERATION – CO2 SENSOR & ECONOMIZER

FAN CONTROL:
THE SUPPLY FAN IS TO RUN CONTINUOUSLY DURING THE OCCUPIED MODE AND CYCLE ON AND OFF DURING THE UNOCCUPIED MODE BASED ON A CALL FOR HEATING OR COOLING. THE UNOCCUPIED SET POINT FOR COOLING WILL BE 85° FAHRENHEIT AND 60° FAHRENHEIT FOR HEATING.

THERMOSTAT:
THE ADJUSTABLE ROOM THERMOSTAT WITH AUTOMATIC HEATING / COOLING CHANGEOVER SHALL CONTROL THE SPACE TEMPERATURE BASED ON SET POINT. THE CONTROL OF THE OCCUPIED / UNOCCUPIED SETBACK MODE SHALL BE THROUGH THE THERMOSTAT. PROVIDE 24/7 CONTROLLABLE TYPE. THERMOSTATS SHALL HAVE AUTOMATIC CHANGEOVER, 5 DEGREE DEADBAND (TEMPERATURE SET-POINT OVERLAP RESTRICTIONS) AND SHALL ALLOW AUTOMATIC RESTART AND TEMPORARY OPERATION AS REQUIRED FOR MAINTENANCE, PER ENERGY CODE.

SAFETIES:
THE UNIT SHALL BE TOTALLY DISABLED WHEN THE DUCT MOUNTED SMOKE DETECTOR IS ACTIVATED. PROVIDE REMOTE TEST STATION/ALARM AT A REGULARLY OCCUPIED LOCATION WHEN REQUIRED BY CODE. PROVIDE LANDLORD REQUIRED SEQUENCE OR INTERFACE AS REQUIRED.

COOLING CONTROL:
UPON A CALL FOR COOLING, THE FIRST STAGE OF COOLING WILL BE ENABLED AND WILL OPERATE UNTIL THE SPACE TEMPERATURE IS SATISFIED. IF THE SPACE TEMPERATURE CONTINUES TO INCREASE THEN THE SECOND STAGE OF COOLING WILL BE ENABLED (IF APPLICABLE.)

HEATING CONTROL:
UPON A CALL FOR HEATING, THE FIRST STAGE OF HEATING WILL BE ENABLED AND WILL OPERATE UNTIL THE SPACE TEMPERATURE IS SATISFIED. IF THE SPACE TEMPERATURE CONTINUES TO DECREASE THEN THE SECOND STAGE OF HEATING WILL BE ENABLED (IF APPLICABLE.)

VENTILATION/ECONOMIZER CONTROL:
(WHERE REQUIRED BY A.H.J., OR WHERE CALLED FOR ELSEWHERE IN THE DRAWING SET):
THE OUTSIDE AIR DAMPER SHALL BE OPEN DURING THE OCCUPIED HEATING AND COOLING MODES FOR CODE REQUIRED MINIMUM OUTSIDE AIR VENTILATION AND SHALL REMAIN CLOSED DURING THE UNOCCUPIED MODE. IN THE OCCUPIED MODE THE CO2 SENSOR SHALL MODULATE THE OUTSIDE AIR DAMPER WHEN THE UNIT IS OPERATING BETWEEN THE MINIMUM OUTSIDE AIR MODE AND 50% OUTSIDE AIR.

THE ECONOMIZER MODE IS ENTHALPY CONTROLLED AND WILL BE OPERATIONAL WHENEVER COOLING IS REQUIRED AND THE OUTSIDE AIR ENTHALPY IS 41 OR BELOW THE RETURN AIR ENTHALPY. THE POWER EXHAUST (WHERE SPECIFIED) SHALL OPERATE WHENEVER THE OUTSIDE AIR DAMPER IS OPEN MORE THAN 60%.

FIRE PROTECTION SYSTEM (AS NEEDED)

SPRINKLER SYSTEM TO BE NFPA 13 AND SPRINKLER MONITORED WITH OCCUPANCY NOTIFICATION COMPLYING WITH H.C. AMENDMENTS – 903.4.

FIRE SPRINKLER AND FIRE ALARM WORK SHALL BE DONE UNDER A SEPARATE PERMIT (DESIGN/BUILD) BY LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTORS.

16270 FIRE ALARM SYSTEM

- 1.1 FURNISH AND INSTALL FIRE ALARM POWER BOOSTER TO EXISTING BUILDING FIRE ALARM PANEL AS INDICATED ON DRAWINGS. THE FIRE ALARM SYSTEM NEW DEVICES SHALL BE FORMALLY PLANNED BY A LICENSED FIRE ALARM CONTRACTOR WHO SHALL SUBMIT SIGNED AND SEALED DRAWINGS, IF REQUIRED FOR PERMIT, AND SHALL SUPERVISE AND CERTIFY THE INSTALLATION. FIRE ALARM SYSTEM CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS AND PROVIDE AND INSTALL DUCT SMOKE DETECTORS AS REQUIRED IN THE STANDARD MECHANICAL CODE AND BY THE LOCAL FIRE MARSHALL. DESIGN SHALL COMPLY WITH NFPA 72. PROVIDE VOICE EVACUATION MODULES WITH ALL NECESSARY APPURTENANCES WHERE NECESSARY.

- 1.2 REMOTE ANNUNCIATOR
PROVIDE AN ALPHANUMERIC ANNUNCIATOR WITH INTEGRAL ALPHANUMERIC DISPLAY, SYSTEM CONTROL/TEST SWITCHES, KEY OPERATED ENABLED SWITCH AND BACK BOX. COORDINATE LOCATION WITH AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.

- 1.3 MANUAL STATIONS
PROVIDE ANALOG ADDRESSABLE MANUAL STATIONS WITH PROTECTIVE COVERS (WITH INTEGRAL HORN AND 9V BATTERY) AS SHOWN ON THE PLANS.

- 1.4 SYSTEM SMOKE DETECTORS
PROVIDE ANALOG ADDRESSABLE PHOTOELECTRIC SMOKE DETECTORS WITH BASES AS SHOWN.

- 1.5 DUCT MOUNTED SMOKE DETECTORS
PROVIDE DUCT MOUNTED ANALOG ADDRESSABLE PHOTOELECTRIC SMOKE DETECTORS WITH SAMPLING TUBES AND ADDRESSABLE CONTROL RELAYS AS SHOWN ON THE PLANS AND AS REQUIRED TO COMPLY WITH THE MECHANICAL CODE. WHERE DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS MORE THAN 10 FEET ABOVE THE FINISHED FLOOR, OR AN ARRANGEMENT WHERE THE DETECTORS ALARM OR SUPERVISORY INDICATOR IS NOT VISIBLE TO RESPONDING PERSONNEL, THE DETECTOR SHALL BE PROVIDED WITH REMOTE ALARM OR SUPERVISORY INDICATION IN A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. ADDITIONALLY, LABEL REMOTE ALARMS TO INDICATE BOTH THEIR FUNCTION AND THE AIR HANDLING UNIT(S) ASSOCIATED WITH EACH DETECTOR.

- 1.6 ADDRESSABLE MONITOR MODULES
PROVIDE ADDRESSABLE MONITOR MODULES AS SHOWN ON THE PLANS TO MONITOR SPRINKLER FLOW SWITCHES, SPRINKLER VALVES, SUPERVISORY SWITCHES AND SPRINKLER FIRE PUMP (AS REQUIRED).

- 1.7 ADDRESSABLE CONTROL MODULES
PROVIDE ADDRESSABLE CONTROL MODULES AS REQUIRED FOR INTERFACE WITH THE ELEVATOR CONTROLS, ELEVATOR POWER CONTROLS (WHERE APPLICABLE) AND HVAC CONTROLS (AS REQUIRED).

- 1.8 ALARM SIGNALS
PROVIDE 15/75-WW SPEAKER/STROBE ALARM SIGNALS AS SHOWN ON THE PLANS FOR ALL PUBLIC AREAS. PROVIDE 15/75-WW STROBE VISUAL ALARM SIGNALS FOR ALL STROBE ONLY LOCATIONS AS SHOWN ON THE PLANS, 110 CANDELA.

- 1.9 WIRING
WIRING SHALL BE CONCEALED IN CONDUIT. PROVIDE WIRING AND CONDUIT AS DIRECTED BY THE MANUFACTURER'S AUTHORIZED DISTRIBUTOR.

- 1.10 APPLICABLE CODES AND STANDARDS
ALL EQUIPMENT SHALL BE UL LISTED FOR ITS INTENDED USE. INSTALL PER CODE AND PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ALL RACEWAYS AND WIRING SHALL BE INSTALLED IN COMPLIANCE WITH NFPA STANDARD 70 (NATIONAL ELECTRIC CODE)

NFPA STANDARDS 71 AND 72

NFPA 101 (LIFE SAFETY CODE)

AMERICANS WITH DISABILITIES ACT (ADA)

INTERNATIONAL BUILDING CODE (IBC), UNIFORM BUILDING CODE (UBC), STATE BUILDING CODE, OR TITLE-24, AS APPLICABLE

APPLICABLE LOCAL AND NATIONAL CODES AND AUTHORITIES HAVING JURISDICTION

- 1.11 SYSTEM OPERATION
ACTUATION OF ANY FIRE ALARM INITIATING DEVICE SHALL IMMEDIATELY CAUSE THE FOLLOWING ACTIONS TO BE INITIATED:
- a. IDENTIFY THE TYPE OF ALARM, SPECIFIC DEVICE AND LOCATION ON THE BACK LIT LCD DISPLAY AT THE BUILDING FIRE ALARM CONTROL PANEL AND AT THE REMOTE ANNUNCIATORS
 - b. CAUSE THE SYSTEM ALARM LED TO FLASH AT THE FIRE ALARM CONTROL PANEL
 - c. CAUSE ALL SYSTEM HORNS TO SOUND
 - d. CAUSE ALL VISUAL ALARMS SIGNALS TO FLASH
 - e. ACTIVATE THE DIGITAL COMMUNICATOR TO REPORT THE TYPE OF ALARM AND LOCATION TO THE REMOTE CENTRAL MONITORING STATION. COORDINATE CONNECTIONS WITH OWNER'S REPRESENTATIVE.
 - f. ACTIVATE SIGNALS TO THE BUILDING DOOR LOCK CONTROLS TO DEACTIVATE LOCKS
 - g. ACTIVATE SIGNALS TO THE HVAC CONTROLS TO INITIATE SHUT DOWN OR REROUTING OF AIR HANDLING SYSTEMS
- 1.12 ACTIVATION OF ANY SPRINKLER VALVE SUPERVISORY SWITCH SHALL AUTOMATICALLY:
- a. CAUSE THE SYSTEM SUPERVISORY LED TO FLASH AND AN AUDIBLE INDICATOR TO SOUND AT THE CONTROL PANEL AND REMOTE ANNUNCIATOR
 - b. IDENTIFY THE SUPERVISORY CONDITION, SPECIFIC DEVICE AND LOCATION ON THE BACK LIT LCD DISPLAY AT THE SYSTEM CONTROL PANEL AND THE REMOTE

KEY NOTES BY SYMBOL 'Ⓢ'

- CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS AND QUANTITY FOR ELECTRICAL AND BLOCKING/MOUNTING WITH SIGN PROVIDER AND PROVIDE AS NECESSARY PRIOR TO ROUGH-IN. CONTRACTOR SHALL FIELD VERIFY EXISTING SIGN CIRCUIT COMPLIES WITH ALL LOCAL AND NATIONAL CODES AND IS PROVIDED WITH ALL REQUIRED DISCONNECTING MEANS PER NEC. PROVIDE INTERIOR ACCESS PANELS FOR SIGN CIRCUIT AS NECESSARY. REUSE EXISTING SIGN CIRCUIT IF EXISTING AND SUITABLE FOR REUSE. EXTEND TO BUILDING FASCIA AS NEEDED.
- DODGEBALL: PROVIDE DUPLEX RECEPTACLE FOR CLOCK MOUNTED 18 FT. UP FROM FLOOR ALONG WALL CENTERED ON DODGEBALL ATTRACTION. PROVIDE LOW VOLTAGE WIRING BACK TO DOORBELL AT REAR MAN DOOR. PROVIDE LOW VOLTAGE TRANSFORMER AS NEEDED.
- WALL CLIMB: PROVIDE DEDICATED CIRCUIT FOR WALL CLIMB AREA. INSTALL A DUPLEX AT EACH WALL FOR LIGHTS/BUZZER CONNECTION.
- ADVENTURE HUB: (2) DUPLEX RECEPTABLES SHALL BE INSTALLED WITHIN ATTRACTION FOR LED INVERTER AND LIGHTS AND (1) DUPLEX RECEPTACLE AT ROPES COURSE. RECEPTABLES/J-BOXES SHALL ALWAYS BE LOCATED TO HAVE THE LEAST ACCESS POSSIBLE FROM PARTICIPANTS.
- SKY RIDER-ADVENTURE HUB: (1) DUPLEX RECEPTACLE FOR LED LIGHT INVERTER, (1) DUPLEX RECEPTACLE FOR GREEN/RED LIGHT, (1) DUPLEX RECEPTACLE FOR MAGNET LOCK (RECTANGLE) IN THE HUB, AND (1) DUPLEX RECEPTACLE FOR LIGHTING.
- SKY RIDER-TRANSFER STATION: (1) DUPLEX RECEPTACLE FOR GREEN/RED LIGHT, (1) DUPLEX RECEPTACLE FOR MAGNET LOCK (ROUND) ON THE NON-RETURN RAIL, AND (1) DUPLEX RECEPTACLE FOR MAGNET LOCK (RECTANGLE) IN THE HUB. PROVIDE CEILING MOUNTED J-BOX FOR ATTRACTION LIGHTING.
- ROPES COURSE: PROVIDE (1) DUPLEX FOR LED LIGHT INVERTER.
- PROVIDE MASTER ATTRACTION SWITCH CAPABLE OF CONTROLLING POWER TO ALL ATTRACTIONS AND ATTRACTION LIGHTING.
- SPIN/FLIP ZONE: PROVIDE (1) DEDICATED CIRCUIT FOR EACH SPIN CART CHARGER, (1) DEDICATED CIRCUIT (208V) FOR EACH FLIP CART CHARGER, (1) DEDICATED CIRCUIT FOR LIGHTS, (1) DEDICATED CIRCUIT FOR CONTROLLER, AND (1) DEDICATED CIRCUIT FOR SOUND. ALL J-BOXES SHALL BE MOUNTED ON ATTRACTION RAILING ADJACENT TO WALL OR COLUMN. REFER TO SPIN/FLIP VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE 20A 120V DEDICATED CIRCUITS REQUIRED FOR HIGH BAY 24V DC POWER SUPPLIES, 80" AFF. TIE TO EMERGENCY POWER/INVERTER
- PROVIDE (2) 1" CONDUITS FOR POWER/LIGHTING AND DATA, ROUTED BELOW GRADE TO FLOOR-MOUNTED RECEPTACLE AND DATA OUTLET LOCATED BELOW CHECK-IN COUNTER.
- PROVIDE (1) DUPLEX RECEPTACLE AND (1) DATA OUTLET FOR EACH SELF-CHECK IN STATION AND TV MONITOR, TYPICAL.
- PROVIDE USB/OUTLET COMBO FOR TECH BAR, AT +36" A.F.F. LEVITON T5632 W/ ONE 110V PLUG. 3.6A MAX DRAW PER PLUG. TWO USE PORTS. (SEE DETAIL 02/E1.0).
- PROVIDE DUPLEX OUTLET FOR SUBWOOFER LOCATED UNDER ATTRACTION PLATFORM. REFER TO LATEST TELSTAR TECHNOLOGY PLANS FOR MORE INFORMATION. MAINTAIN ACCESS.
- LOCATION OF ELECTRICAL EQUIPMENT, REFER TO SHEETS E3.0 FOR ADDITIONAL INFORMATION.
- VERIFY EXACT RECEPTACLE LOCATION CONFIGURATION WITH ADVENTURE HUB VENDOR. PROVIDE ONE 110V DUPLEX RECEPTACLE AT EACH HOUSING LOCATION.
- PROVIDE (1) 120V DOUBLE GANG RECEPTACLE AT EACH HOUSING LOCATION. ROUTE LED LIGHTING POWER TO TWO J-BOXES. LOCATED ABOVE ATTRACTION FOOTPRINT, CENTERED ON EXIT. EACH TO BE PROVIDED WITH A 1000 WATT INVERTER WITH 6 AMP CONNECTED LOAD. DROP POWER FROM CEILING. ONE POWER CIRCUIT WILL POWER ONE DUPLEX RECEPTACLE CENTERED ON THE EXIT SIDE OF LANES 1 AND 2 AND ONE DUPLEX RECEPTACLE ON THE ENTRY SIDES OF LANES 1 AND 2 FOR ONE CONTROL BOX. THE SECOND POWER CIRCUIT WILL POWER ONE DUPLEX RECEPTACLE CENTERED ON THE EXIT SIDE OF LANES 3 AND 4 AND ONE DUPLEX RECEPTACLE ON THE ENTRY SIDE OF LANES 3 AND 4 FOR ONE CONTROL BOX. OUTLET LOCATIONS SHOWN ON PLAN ARE DIAGRAMMATIC. USE THIS DESCRIPTION FOR PLACEMENT. VERIFY WITH WARRIOR COURSE VENDOR.
- VIRTUAL REALITY: PROVIDE (2) QUADPLEX RECEPTABLES AND CAT 6 DATA CABLE FOR PROPER VIRTUAL REALITY OPERATION. COORDINATE MOUNTING AND ELECTRICAL REQUIREMENT WITH LATEST VENDOR SITE PREP PACKET.
- PROVIDE FIRE ALARM RELAY AT LIGHTING CONTROLS. LIGHTS SHALL TURN ON TO FULL BRIGHTNESS UPON FIRE ALARM SYSTEM ACTIVATION. COORDINATE REQUIREMENTS WITH AV VENDOR.
- MAINTAIN 36" CLEAR SERVICE SPACE IN FRONT OF ELECTRICAL GEAR/PANELS, PER NEC.
- EX. CONDUIT AND CONDUCTORS ROUTED TO EX. 1600A 277/480V, 3φ, 4 WIRE MAIN DISTRIBUTION SWITCHGEAR. REFER TO SHEET E3.0 FOR ADDITIONAL INFO.
- PROVIDE SWITCHBANK (RELAY STATION) TO DIM/SHUTOFF ALL MAIN OPEN AREA LIGHTING.
- FURROUT WALLS FOR POWER AND PLUMBING (SUPPLY, WASTE, AND VENT) LINES AS NECESSARY.
- LASER TAG: PROVIDE RECEPTABLES AND DATA FOR LASER TAG CONTROL DESK AND LASER TAG GAMING AREA. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH LASER TAG VENDOR PRIOR TO CONSTRUCTION. G.C. SHALL REFER TO VENDOR DRAWINGS AND CONTACT ARCHITECT FOR NEEDED INSTALLATION GUIDANCE, AS NEEDED. PRELIMINARY DESIGN ASSUMES (3) DEDICATED QUAD RECEPTABLES AND (3) TRIPLEX DATA RECEPTABLES (DIAGRAMMATIC). LASER TAG ELECTRICAL COVER PLATES SHALL BE BLACK. PROVIDE CEILING-MOUNTED OUTLETS FOR LED BLACK LIGHTS, AS NEEDED. PROVIDE LOCAL SWITCHING AS NEEDED. REFER TO LASER TAG VENDOR DRAWINGS. SWITCH SEPARATELY FROM REGULAR (WHITE) LIGHTS. REFER TO DETAIL 02/E2.0 FOR LASER TAG SWITCH BANK DETAIL. CONTRACTOR SHALL CONTACT CREATIVE WORKS PRIOR TO BEGINNING WORK FOR ADDITIONAL CLARIFICATION.
- PROVIDE TWO (2) DUPLEX RECEPTABLES AT 96" AFF FOR LASER TAG TV POWER, CEILING MOUNTED.
- COORDINATE LOCATION OF RECEPTACLE FOR INTERIOR SIGNS WITH OWNER PRIOR TO ROUGH-IN. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS/OWNER'S REP.
- PROVIDE LOW-VOLTAGE FOR LASER TAG AREA PER CREATIVE WORKS SHOP DRAWING E2.1.

GENERAL NOTES

- GENERAL RECEPTABLES INSTALLED AT +15" TO BOTTOM OF BOX A.F.F.
- VERIFY GFI REQUIREMENTS PRIOR TO BID. ALL RECEPTABLES WITHIN 6'-0" OF A SINK OR WASH BASIN SHALL BE GFI RATED.
- COORDINATE COLOR OF RECEPTABLES AND COVER PLATES WITH ARCHITECTURAL PLANS.
- SMOKE DETECTORS, FIRE ALARM SYSTEM, STROBES, HORNS, SPRINKLERS, ETC. SHALL BE DESIGNED AND INSTALLED WHERE REQUIRED BY A LICENSED FIRE SPRINKLER / FIRE PROTECTION CONTRACTOR (DESIGN-BUILD) UNDER A SEPARATE PERMIT, WHERE REQUIRED.
- HVAC CONVENIENCE OUTLET(S) AND DISCONNECT(S) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SIZE TO MATCH BREAKERS ON PANEL AND/OR NAMEPLATE.
- DISCONNECT SHALL BE RATED FOR VOLTAGE OF ORIGINATING PANEL.
- WHERE APPLICABLE, ALL ELECTRICAL OUTLET SWITCHES IN SOUND WALL, AND ALL CONDUIT AND PIPE PENETRATIONS SHALL BE INSTALLED WITH SOUND BLOCKING PUTTY PADS (TYP.).

ARLINGTON HEIGHTS, IL NOTE:

THE GENERAL CONTRACTOR SHALL PROVIDE A COMPLETE URBAN AIR EXERCISE AND ENTERTAINMENT FACILITY. THIS INCLUDES ANY ITEMS REQUIRED BY THE LOCAL INSPECTORS NOT INCLUDED IN THE DOCUMENT SET. THIS DOCUMENT SET SHALL BE USED IN CONJUNCTION WITH THE OWNER'S BRAND STANDARDS, VENDOR INSTALLATION INSTRUCTIONS AND OWNER'S GUIDANCE AS DIRECTIVE TO COMPLETE THE PROJECT.

ARLINGTON HEIGHTS, IL NOTE:

WHEREVER REQUIRED BY AHJ, THE ELECTRICAL/LOW VOLTAGE CONTRACTOR SHALL PULL A LOW VOLTAGE PERMIT. LOW VOLTAGE WIRING SHALL BE SHIELDED.

ARLINGTON HEIGHTS, IL NOTE:

ALL ELECTRICAL WORK SHALL COMPLY WITH 2017 NATIONAL ELECTRICAL CODE AND 2021 ILLINOIS ENERGY CONSERVATION CODE.

ARLINGTON HEIGHTS, IL NOTE:

THIS PROJECT IS A TENANT FINISHOUT OF AN EXISTING RETAIL SPACE THAT WAS FORMERLY A RETAIL STORE.

URBAN AIR MASTER ATTRACTION NOTE:

E.C. SHALL PROVIDE MASTER OVERRIDE SWITCH/SWITCH BANK TO TURN OFF ATTRACTIONS INCLUDING LIGHTING AND OTHER KEY ELEMENTS OF CERTAIN ATTRACTIONS: PROVIDE TIMECLOCK(S), CONTACTORS, RELAYS, ETC. AS NEEDED. COORDINATE WITH URBAN AIR CORPORATE FOR EXACT MASTER ATTRACTION SWITCH REQUIREMENTS.

PROTOTYPICAL NOTE:

JURISDICTIONS VARY AS TO WHO CAN MAKE FINAL CONNECTION OF SIGN TO BUILDING POWER. SOME JURISDICTIONS REQUIRE SPECIAL SIGN PERMITS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCESSIBLE J-BOX AT BUILDING PERIMETER FOR EACH SIGN LOCATION ON ALL JOBS WITH MEANS OF DISCONNECT AND CONDUCTOR BACK TO THE PANEL, PER NEC. THE SIGN CONTRACTOR SHALL PROVIDE ALL SIGNS WITH A SINGLE WHIP POKING THROUGH THE BACK OF THE SIGN OR SIGN RACEWAY FOR EACH SIGN LOCATION. FINAL CONNECTION (INCLUDING ANY CONDUIT ABOVE METAL AWNING/ STRUCTURE OR OTHER SPECIAL 'GAP' SITE CONDITIONS) SHALL BE BY ELECTRICAL CONTRACTOR UNLESS THE A.H.J. REQUIRES THIS CONNECTION TO BE BY THE SIGN CONTRACTOR.

PROTOTYPICAL NOTE:

THE G.C. SHALL PROVIDE A SWITCH TO TURN OFF ALL ATTRACTIONS. INSTALL AT MANAGER'S OFFICE IN THE FORM OF A NORMAL TOGGLE SWITCH. PROVIDE CONTRACTORS AS NEEDED. SWITCH SHALL ALSO CONTROL ATTRACTION LIGHTING.

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.

PROTOTYPICAL NOTE:

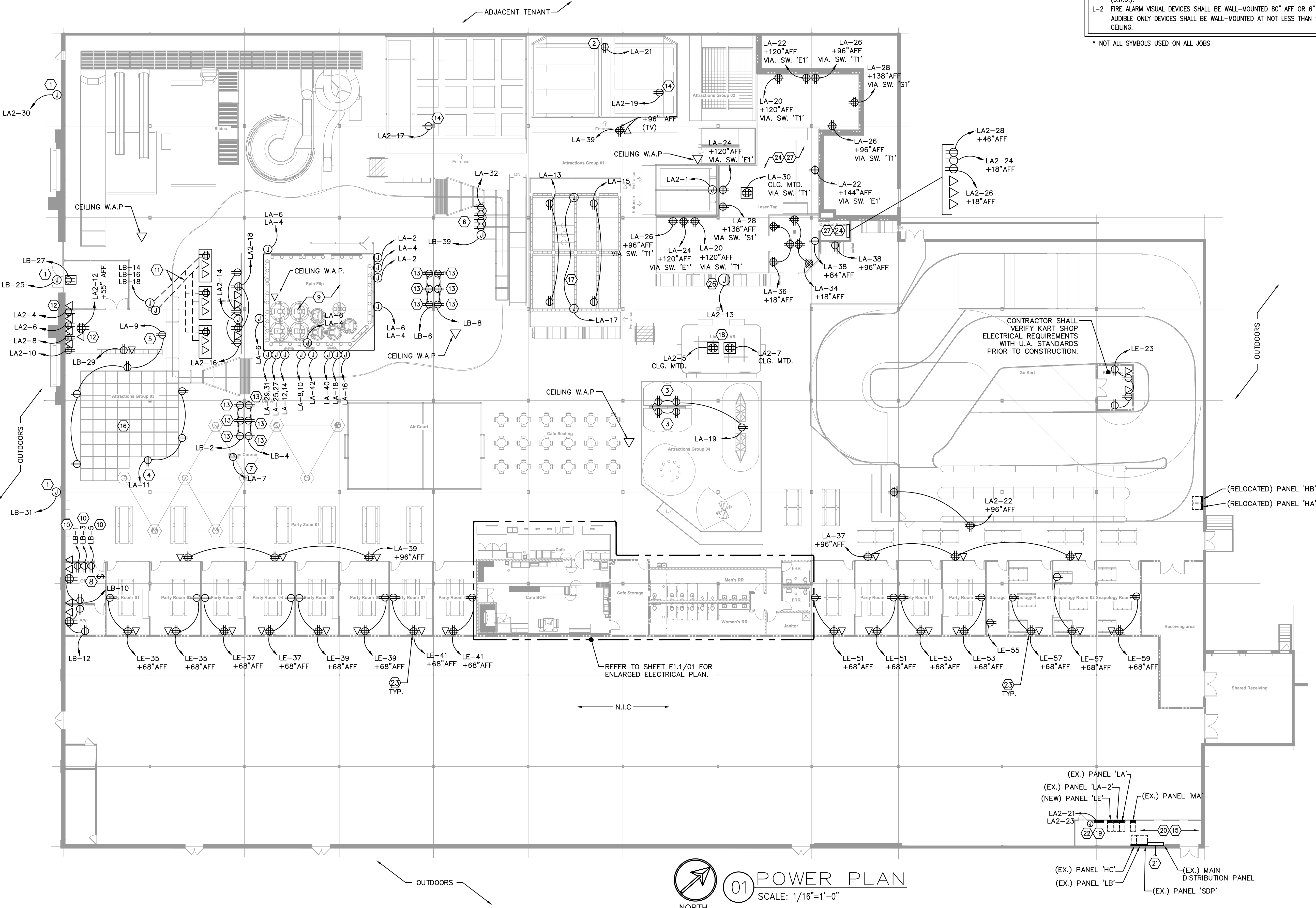
REFER TO TELSTAR DRAWINGS FOR LOW VOLTAGE ITEMS INCLUDING BUT NOT LIMITED DATA, SPEAKERS/MUSIC HIGH BAY LIGHTING, LED EFFECT LIGHTING, SPOT LIGHTING, COAXIAL, CATS/CAT6, AND SPECIALTY EQUIPMENT LOW VOLTAGE POWER SUPPLY.

REVIEW AND APPROVAL BY THE A.H.J. SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH ALL APPLICABLE CODES.

VERIFY SIGN LOCATION AND QUANTITY WITH SEPARATELY PERMITTED SIGN PACKAGE. REUSE EXISTING CIRCUITS AND DISCONNECTS AS APPLICABLE.

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	HEIGHT (U.N.O.)
\$	SINGLE POLE SINGLE THROW TOGGLE SWITCH (NOTE L-1)	44"
\$ ₃ /\$ ₄	THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH (NOTE L-1)	44"
\$ _D	DIMMER SWITCH (NOTE L-1)	44"
Ⓢ / Ⓢ	DUPLEX / QUAD RECEPTACLE OUTLET (NOTE L-1)	15" (BOTTOM)
Ⓢ	OTHER RECEPTACLE, AS NOTED.	
Ⓢ	DUPLEX RECEPTACLE OUTLET - CEILING MOUNTED/FLOOR MOUNTED	
(#)	THE NUMBER IN PARENTHESIS IS THE CONVENIENT OUTLET COUNT FOR THE CIRCUIT.	
Ⓢ / Ⓢ	JUNCTION BOX, CEILING / FLOOR MOUNTED	SEE PLAN
▽ / ▽	TELEPHONE OUTLET, WALL MOUNTED / FLOOR MOUNTED	SEE PLAN
▽ / ▽	DATA OUTLET, WALL MOUNTED/FLOOR MOUNTED	SEE PLAN
Ⓢ	TELEVISION OUTLET WALL MOUNTED	SEE PLAN
Ⓢ	CURRENT TRANSFORMER	
Ⓢ	POWER METER AND SOCKET	
Ⓢ	RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING	
Ⓢ	GROUNDING CONNECTION (SYSTEM AND/OR EQUIPMENT)	
Ⓢ	ARROWHEAD INDICATES HOMERUN. X-1,3,5 INDICATES HOMERUN TO PANEL 'X', CIRCUIT NUMBERS 1,3, AND 5.	
Ⓢ	MOTOR	
Ⓢ	PANELBOARD - WALL MOUNTED (RECESSED/SURFACE MOUNTED)	
Ⓢ	DISCONNECT SWITCH, RATING/FUSE RATING/POLES/NEUA ENCLOSURE	
Ⓢ	DUCT SMOKE DETECTOR	
Ⓢ	THERMAL DETECTOR, WALL MOUNTED	96" AFF
Ⓢ	THERMOSTAT, WALL MOUNTED	48" AFF
Ⓢ	CONNECT NEW TO EXISTING	
N.I.C.	NOT IN CONTRACT	
Ⓢ	TIMECLOCK	
Ⓢ	WALL MOUNTED SPEAKERS	
L-1 MOUNTING HEIGHTS NOTED ARE TO THE CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE (U.N.O.).		
L-2 FIRE ALARM VISUAL DEVICES SHALL BE WALL-MOUNTED 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. AUDIBLE ONLY DEVICES SHALL BE WALL-MOUNTED AT NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW CEILING.		

* NOT ALL SYMBOLS USED ON ALL JOBS



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No.	Description	Date
A	Issue for Permit	2024.12.20

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POWER PLAN

E1.0

02 USB/OUTLET COMBO
SCALE: NO SCALE

01 POWER PLAN
SCALE: 1/16"=1'-0"

1. REFER TO MECHANICAL FOR EXACT NUMBER, TYPE AND LOCATION OF SUPPLY, RETURN AND EXHAUST FIXTURES.
2. REFER TO ELECTRICAL FOR EXACT NUMBER, TYPE AND LOCATION OF OUTLETS.
3. G.C. WILL COORDINATE THE WORK OF ALL TRADES INVOLVED IN THE CEILING WORK TO ENSURE CLEARANCES FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEMS, ETC., NECESSARY TO MAINTAIN THE FINISHED CEILING HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS.
4. PROVIDE CEILING ACCESS AS REQUIRED FOR EQUIPMENT AND SYSTEM MAINTENANCE. VERIFY MANUFACTURER RECOMMENDATIONS.
5. ALL SWITCHES AND DIMMERS SHALL BE LOCATED 46" ABOVE FINISHED FLOOR, TO CENTER OF SWITCHES AND 6" FROM DOOR FRAME U.N.O. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND FINISHED WITH AN OVER PLATE.
6. CONTRACTOR TO NOTIFY ARCHITECT OF ANY CONFLICT OF LIGHT FIXTURE LOCATIONS WITH MAIN RUNNERS, DUCTS, ETC., PRIOR TO INSTALLATION.
7. FURNISH AND INSTALL UNDERWRITERS LABORATORY, INC (UL) LABELED DEVICES THROUGHOUT

- U. SWITCHES FOR LIGHTING CONTROL SHALL BE INDUSTRIAL GRADE. DEVICES AND PLATES TO MATCH WALLS, WHITE DEVICES WITH STAINLESS PLATES IN THE KITCHEN AND RESTROOMS. UNLESS NOTED OTHERWISE, REFER TO ARCHITECTURAL FINISH SHEETS. SIDE WIRE ONLY, TWENTY (20) AMP, ONE HUNDRED TWENTY-TWO HUNDRED SEVENTY-SEVEN (120/277) VOLT.
- V. DUPLEX RECEPTABLES SHALL BE INDUSTRIAL GRADE, THREE (3) WIRE GROUNDING, WHITE COLOR, FINGER GROOVE, TWENTY (20) AMP, NEMA 5-20R 125 VAC.
- W. PLATES SHALL BE FURNISHED AND INSTALLED FOR ALL WIRING DEVICES, TELEPHONE OUTLETS, JUNCTION BOXES, ETC. MATCH SWITCH/PLATE COVERS AS LAID OUT ABOVE.
- X. E.C. SHALL BE RESPONSIBLE FOR PROPERLY BALANCING ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM; REGARDLESS OF CIRCUITING INDICATED.
- Y. ALL DUPLEX RECEPTABLES INSTALLED IN KITCHEN, BEVERAGE, AND PREPARATION AREA ARE TO BE GFCI RATED, WHERE NOT PROTECTED BY A GFCI CIRCUIT BREAKER.
- Z. THERE WILL BE NO MC RUNNING HORIZONTALLY OVER 12" IN LENGTH IN ANY EXPOSED AREA OR AREAS VISIBLE TO THE CUSTOMER, ANY HORIZONTAL CONDUIT MUST BE LEVEL.

- JURISDICTIONS VARY AS TO WHO CAN MAKE FINAL CONNECTION OF SIGN TO BUILDING POWER. SOME JURISDICTIONS REQUIRE SPECIAL SIGN PERMITS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SIGN ACCESSIBLE J-BOX AT BUILDING PERIMETER FOR EACH SIGN LOCATION ON ALL JOBS WITH MEANS OF DISCONNECT AND CONDUCTOR BACK TO THE PANEL. PER NEC, THE SIGN CONTRACTOR SHALL PROVIDE ALL SIGNS WITH A SINGLE WHIP POKING THROUGH THE BACK OF THE SIGN OR SIGN RACEWAY FOR EACH SIGN LOCATION. FINAL CONNECTION (INCLUDING ANY CONDUIT AND PIPES, CABLE, AVOIDING STRUCTURE OR OTHER SPECIAL SITE CONDITIONS) SHALL BE BY ELECTRICAL CONTRACTOR UNLESS THE A.H.J. REQUIRES THIS CONNECTION TO BE BY THE SIGN CONTRACTOR.
- B. AT TIME OF ORDER OF LIGHT FIXTURES, CONFIRM ALL NEW FIXTURES ARE DIMMABLE.
- C. BACK OF HOUSE SWITCHES SHALL BE DUAL TECHNOLOGY VACANCY SENSOR TYPE.
- D. E.C. SHALL COORDINATE FULLY WITH OTHER CONTRACTORS ASSOCIATED WITH THIS PROJECT TO VERIFY ALL EQUIPMENT LOCATIONS, CONNECTION REQUIREMENTS, ELEVATIONS AND LOCATION OF PIPES, CONDUITS AND DUCTS TO PREVENT CONFLICTS DURING CONSTRUCTION. ANY RELOCATION OR REROUTING OF EQUIPMENT, PIPES, CONDUITS, DUCTS OR MATERIALS RESULTING FROM A LACK OF COORDINATION BETWEEN CONTRACTORS WILL BE AT THE CONTRACTORS EXPENSE.
- E. EQUIPMENT ROUGH-INS SHOWN ARE ACCURATE TO THE BEST OF DESIGNER'S KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE SIGN CONTRACTOR SHALL VERIFY THE FINAL DIMENSIONS PRIOR TO ORDER PRIOR TO CONSTRUCTION. FAILURE OF THE E.C. TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
- F. E.C. SHALL FURNISH AND INSTALL ALL REQUIRED DISCONNECT SWITCHES AND MOTOR STARTERS TO ALL EQUIPMENT.
- G. E.C. SHALL REVIEW OWNER AND SIGNAGE MANUFACTURER, REQUIREMENTS AND LOCATION OF BUILDING SIGNAGE PRIOR TO CONSTRUCTION AND PROVIDE 120VAC CONNECTION AS REQUIRED.
- H. E.C. SHALL PROVIDE AS-BUILT DRAWINGS AT JOB COMPLETION TO ARCHITECT.
- I. ALL WORK SHALL BE INSTALLED PER ALL GOVERNING CODES.
- J. SUBCONTRACTOR IS TO SUPPLY AND INSTALL ALL BLOCKING REQUIRED TO HANG/MOUNT LIGHTS INCLUDING RESTROOM FIXTURES. BLOCKING IS TO BE FIRE RATED IF REQUIRED BY LOCAL CODES.
- K. SUBCONTRACTOR IS TO SUPPLY AND INSTALL UNISTRUT AND 3/8" THREADED ROD TO HANG/SUPPORT LIGHTING.
- L. RACEWAY SYSTEMS: ALL BRANCH CIRCUIT WIRING SHALL BE ROUTED IN EMT, RIGID OR ELECTRICAL METALLIC TUBING. USE STEEL SET SCREW TYPE FITTINGS ON ALL EMT.
- M. CONDUIT SHALL BE SUPPORTED AT INTERVALS PER NEC REQUIREMENTS AND SHALL BE SECURELY FASTENED TO BUILDING WITH AN APPROVED FASTENING SYSTEM.
- N. ALL NEW CONDUIT TO BE CONCEALED IN WALLS. PATCH/PAINT IF NECESSARY. WIRING, WIRING DEVICES, PLATES AND GROUNDING
- O. ALL WIRING SHALL CONSIST OF COPPER CONDUCTORS WITH THERMOPLASTIC INSULATION RATED FOR SIX HUNDRED (600) VOLTS. ALL WIRING INSULATION SHALL BE HEAT AND MOISTURE RESISTANT TYPES THW, THWN, OR THHN FOR INTERNAL AND DRIVE LOCATIONS. WIRE COLOR SHALL FOLLOW NEC STANDARDS, PER VOLTAGE.
- P. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG FOR ALL BRANCH CIRCUITS (I.E. RECEPTACLES, LIGHTING, EQUIPMENT POWER, ETC.). MINIMUM CONDUCTOR SIZE SHALL BE NO. 10 AWG FOR ALL FEEDER CIRCUITS TO MECHANICAL EQUIPMENT (I.E. U-1, CONDENSERS, ETC.)
- Q. ALL SPLICED OR CONNECTIONS SHALL BE MADE IN OUTLET BOXES, JUNCTION BOXES OR EQUIPMENT WHERE ACCESSIBLE, AND NOT BELOW GRADE.
- R. CONDUCTORS SHALL BE PULLED WITHOUT THE USE OF OIL OR GREASE. WIRE PULLING LUBRICANTS WHICH ARE APPROVED FOR USE WITH CONDUCTOR INSULATION MAY BE USED. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE WIRE. THE MAXIMUM ALLOWABLE PULLING TENSION OF WIRE IS NOT EXCEEDED. WIRING WITH DAMAGED CONDUCTORS OR INSULATION WILL NOT BE ACCEPTED.

Diagram illustrating the 2'x4' Grid - Second Look components and their connections:

- ES** (Exposed to Structure): Painted where tagged as u.n.o.
- CLG-1 - 2'x4' Grid - Second Look**
- Ceiling Tag**: Ceiling Finish Code. Refer to Finish Schedule A111.
- Ceiling Height** above finish floor
- Supply Diffuser**: Refer to Mechanical
- 24" x 48" Troffer**: Refer to Electrical
- Pole mounted Television (OFC)** with cable service. QTY: 15.
- TV** without cable service (menu, pricing, training, Finish Tag) QTY: 12
- Exit Sign**
- Emergency Egress Frog-Eye**
- Exterior Emergency Egress Frog-Eye**

24v DC, DMX-controlled, 8 lamp, 8ft. x 8ft. fixture

24v DC, DMX-controlled, 2 lamp, 8ft. fixture

24v DC, DMX-controlled, 4 lamp, 16ft. fixture

24v DC, DMX-controlled, 4 lamp, 16ft. fixture mounted under Mezzanine (Go Kart)

LED Wash Fixture 18 W, 0.3 A @ 120 V - Mounted at ceiling

Moving Head Spotlight
-Moving head spot fitted with a 90 W LED and custom Urban Air GOBO
186 W, 1.7 A @ 120 V, 60 Hz

Linear LED Wash Fixture
57 W, 0.5 A @ 120 V
(Includes Mezzanine)

	Wireless access point. Power over ethernet.
	Category 6 network access point. Includes keystone ethernet jack with wall plate.

- INTERIOR 4MP Bullet Camera Power over ethernet Category 6 cable
- EXTERIOR 4MP Bullet Camera Power over ethernet Category 6 cable
- 120v 5-15r quad receptacle required. See above for power consumption.

70w 2' x 2' Tile Replacement Speaker with volume controller. Passive. No electrical outlet needed.

10" 3 way high output indoor/outdoor speaker Passive. No electrical outlet needed.

18" Powered Sub-Woofer 2 A @ 120 V

 120v 5-15r duplex receptacle required. See above for power consumption.

 120v 5-15r quad receptacle required. See above for power consumption.

- 1 WALK-IN LIGHTING SHALL BE ORDERED WITH WALK-IN COOLER AND BE INSTALLED BY THE TENANTS G.C. SUPPLEMENT AS NEEDED TO REACH THE HEALTH DEPARTMENT FUEL CANDLE LEVELS, IF NECESSARY.
- 2 NOT USED.
- 3 EMERGENCY EGRESS LIGHT SHALL BE CIRCUMCUT TO LB-44 INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 4 PROVIDE SWITCH MOUNTED IN MILLWORK FOR RGB LED MILLWORK LIGHTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MILLWORK INSTALLER. REFER TO SHEET E1.1 FOR POWER TO MILLWORK LIGHTING.
- 5 NOT USED.
- 6 CONTRACTOR SHALL PROVIDE DUAL SWITCHING FOR BACK OF HOUSE LIGHTING. DUAL SWITCHING SHALL CONSIST OF EACH SWITCH CONTROLLING EVERY OTHER FIXTURE OR INBOARD/OUTBOARD LAMPS FOR A 50% REDUCTION IN LIGHTING. PROVIDE ADDITIONAL LIGHT BALLAST FOR EACH FIXTURE IF INBOARD/OUTBOARD CONTROLS ARE UTILIZED. COORDINATE SWITCHING CONTROLS WITH OWNER.
- 7 PROVIDE LIGHT FIXTURE WITH BATTERY BACKUP FOR EMERGENCY EGRESS. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFO. PROVIDE AUTOMATIC SWITCHOVER.



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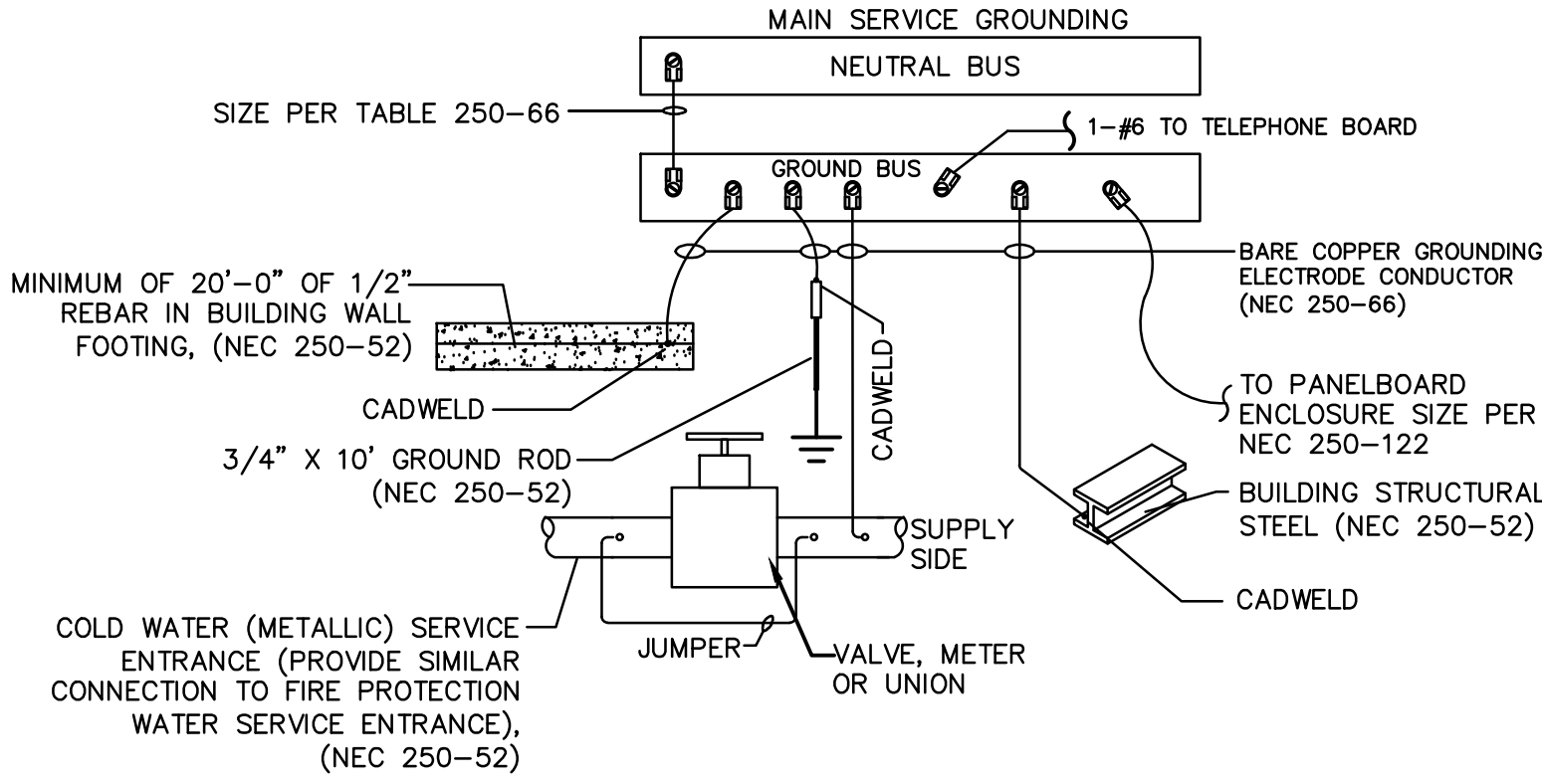
E2.1

- ONE-LINE RISER NOTES:**
1. PROVIDE A DISCONNECT AND OVERCURRENT PROTECTION MEANS FOR THE ELECTRICAL SERVICE. PROVIDE GFI MAIN BREAKER WHERE REQUIRED BY A.H.J. BASE BID SHALL BE FOR COPPER FEEDERS.
 2. PROVIDE FEEDER FOR TENANT SERVICE. VERIFY LOCATION OF UTILITY XFMR. IN FIELD.
 3. E.C. SHALL VERIFY LENGTH OF FEEDERS PRIOR TO (AND INCLUDE PRICING IN) BID
 4. ALL PANELS AND SUB-PANELS SHALL HAVE LOCKS. ALL PANELS SHALL BE SQUARE D / EATON / CUTLER-HAMMER & SUB-PANELS AND PANELS 600A OR LESS SHALL FIT INTO A 6" STUD WALL WITH LOCKING FLUSH MOUNT COVERS.
 5. G.C. SHALL CONFIRM VOLTAGE AVAILABLE ON SITE PRIOR TO ORDERING ANY NEW HVAC EQUIPMENT OR ELECTRICAL GEAR. NOTIFY ENGINEER IF VOLTAGE IS DIFFERENT THAN AS SHOWN.
 6. HVAC BREAKER SIZES SHALL BE CONFIRMED WITH UNITS AND/OR EQUIPMENT THAT ARRIVE ON SITE. BREAKER SIZES AND WIRE SIZES SHALL BE ADJUSTED AS NECESSARY.
 7. PROVIDE LOCK-ON BREAKERS FOR ALL NL/EM AND SECURITY/PHONE CIRCUITS, REFRIGERATION EQUIPMENT, DUCT DETECTORS, AND TIME CLOCK OR OTHER EQUIPMENT REQUIRED TO HAVE POWER 24/7 WITHOUT INTERRUPTION.
 8. ON 480V JOBS, AS NEEDED, PROVIDE SECONDARY DISCONNECT (FUSED) WITHIN 10' OF THE STEP DOWN TRANSFORMER WHERE SECONDARY CONDUCTOR DISTANCE IS >25' OR AS REQUIRED ELSEWHERE BY THE TAP RULE.
 9. ELECTRICAL PANELS SHALL BE SERIES RATED WITH COORDINATED BREAKERS. WHERE POSSIBLE, ORDER ALL PANELS FROM ONE MANUFACTURER FOR A COMPLETE COORDINATED PACKAGE.
 10. PROVIDE ANCILLARY POWER AS NEEDED FOR ITEMS SUCH AS FLUSH SENSORS, DUCT DETECTORS, CAMERA/MUSIC SYSTEMS, ETC.
 11. ALL ELECTRICAL CIRCUITS UNDER TYPE 1 HOODS SHALL BE EQUIPPED WITH SHUNT TRIP BREAKERS FOR AUTOMATIC SHUTDOWN OF COOKING ENERGY SOURCE UPON RECEIPT OF A SIGNAL FROM THE HOOD CONTROLLER. (WHERE APPLICABLE)
 12. AREA SMOKE DETECTORS AND DUCT SMOKE DETECTORS SHALL BE INSTALLED AND CIRCUITED TO AVAILABLE CIRCUIT ON PANEL.
 13. VERIFY FAULT DUTY (SCCR) OF EX. PANEL, SUB-PANEL TO MATCH OR SHALL HAVE SERIES RATED BREAKER FROM SAME MANUFACTURER AS MAIN PANEL.
 14. ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT WITH UTILITY CO. PRIOR TO ORDERING GEAR AND ENERGIZING SERVICE AND SHALL LABEL GEAR WITH SCCR RATING AND AVAILABLE FAULT AT EACH PIECE OF EQUIPMENT AND DATE CALCULATIONS WERE MADE.
 15. DISCONNECTS SHALL BE RATED FOR VOLTAGE OF EQUIPMENT SERVED.DISCONNECTS SHALL BE RATED AT VOLTAGE OF EQUIPMENT SERVED. CONFIRM VOLTAGE AVAILABLE ON SITE PRIOR TO ORDERING EQUIPMENT.
 16. ALL WIRING IS COPPER, SIZED FOR 75° C THWN.
 17. FEEDER CONDUIT SHALL BE RIGID METALLIC CONDUIT, OR PVC SUITABLE (RATED) FOR ELECTRICAL USE.
 18. PROVIDE ARCFLASH HAZARD WARNING LABELS ON ALL GEAR AS REQUIRED BY N.E.C.
 19. WHERE CONTRACTORS ARE ADDING SUB-PANELS TO A PROJECT, THE SUB-PANELS SHALL BE SCCR RATED AT 10 KAIC AND SAME MANUFACTURER AS THE EXISTING PANEL(S) AND SHALL BE FEED FROM A SERIES RATED BREAKER. OTHERWISE SUB-PANELS SHALL BE FULLY RATED WITH SAME SCCR AS ORIGINATING PANEL.
 20. ALL HVAC AND REFRIGERATION EQUIPMENT SHALL HAVE HACR TYPE BREAKERS.
 21. ALL 20A/1P AND 15A/1P KITCHEN, GARAGE AND OUTDOOR OUTLETS TO BE GFI PROTECTED.
 22. ALL WRING, INSULATION, ETC. IN AN ENCLOSED PLENUM SPACE SHALL BE PLENUM RATED.
 23. PROVIDE SINGLE-POINT CONNECTION FOR HVAC UNITS WHERE POSSIBLE. OTHERWISE ADD AN 18"-SPACE SUB-PANEL FOR EXTRA BREAKER SPACES.

URBAN AIR PROTOTYPICAL NOTE:
WHERE REQUIRED BY THE AHJ, AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM, WHICH IS ALSO ALLOWED TO SERVE AS A PUBLIC ADDRESS SYSTEM, SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-72. PROVIDE SHUNTS AS NEEDED TO SHUT DOWN GAMES AND MUSIC SYSTEMS.

EXISTING ELECTRICAL SERVICE:
277/480V, 3 PH, 4 WIRE.

- DETAIL NOTES:**
1. ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.
 2. ALL GROUNDING CABLES SHALL BE #3/0 UNLESS OTHERWISE SPECIFIED.



02 GROUNDING ELECTRODE SYSTEM DETAIL

SCALE: NOT TO SCALE

BRANCH CIRCUIT WIRING SCHEDULE				
OCBP AMPS	1P-2W+G, 2P-2W+G	2P-3W+G & 3P-3W+G	3P-4W+G	
15	2#12, 1#12G, 3/4"C	3#12, 1#12G, 3/4"C	4#12, 1#12G, 3/4"C	
20	2#12, 1#12G, 3/4"C	3#12, 1#12G, 3/4"C	4#12, 1#12G, 3/4"C	
25	2#10, 1#10G, 3/4"C	3#10, 1#10G, 3/4"C	4#10, 1#10G, 3/4"C	
30	2#10, 1#10G, 3/4"C	3#10, 1#10G, 3/4"C	4#10, 1#10G, 3/4"C	
35	2#8, 1#10G, 3/4"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C	
40	2#8, 1#10G, 3/4"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C	
45	2#6, 1#10G, 3/4"C	3#6, 1#10G, 3/4"C	4#6, 1#10G, 1"C	
50	2#6, 1#10G, 3/4"C	3#6, 1#10G, 3/4"C	4#6, 1#10G, 1"C	
60	2#4, 1#10G, 3/4"C	3#4, 1#10G, 1"C	4#4, 1#10G, 1 1/4"C	
70	2#4, 1#8G, 3/4"C	3#4, 1#8G, 1"C	4#4, 1#8G, 1 1/4"C	
80	2#3, 1#8G, 1"C	3#3, 1#8G, 1"C	4#3, 1#8G, 1 1/4"C	
90	2#2, 1#8G, 1"C	3#2, 1#8G, 1 1/4"C	4#2, 1#8G, 1 1/4"C	
100	2#1, 1#8G, 1 1/4"C	3#1, 1#8G, 1 1/4"C	4#1, 1#8G, 1 1/2"C	

NOTE:
1. CONTRACTOR TO INCREASE WIRE SIZING FOR LONG RUNS OF WIRING FOR VOLTAGE DROP ALLOWANCE. VOLTAGE DROP SHALL NOT EXCEED 3 PERCENT.

ARLINGTON HEIGHTS, IL NOTE:

INSTALL PER NEC 2017- THE ELECTRICAL MUST BE INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR WITH AN ELECTRICAL PERMIT AND AN INSPECTION BY THIS DIVISION. AIC RATING IN ACCORDANCE WITH NEC 110.24 SHALL BE POSTED PER NEC BEFORE RELEASE TO LOCAL UTILITY. THIS INCLUDES PARTIAL FINAL, TEMPORARY CUT-IN AND FINAL INSPECTION. THE FIELD INSPECTOR WILL REVIEW FOR COMPLIANCE WITH NEC DURING THE INSPECTION.

ARLINGTON HEIGHTS, IL NOTE:

LINK ALL PERMITS OF EACH TRADE INCLUDING LOW VOLTAGE, WITH THE CORRECT BUILDING PERMIT.

ARLINGTON HEIGHTS, IL NOTE:

SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. NEC 110.24(A)

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

LENGTH	CIRCUIT WIRE SIZE	HOMERUN WIRE SIZE
1FT TO 50FT	NO.12 AWG	NO.12 AWG
51FT TO 75FT	NO.12 AWG	NO.10 AWG
76FT TO 120FT	NO.10 AWG	NO.8 AWG
121FT TO 150FT	NO.10 AWG	NO.6 AWG
151FT TO 300FT	NO.10 AWG	NO.4 AWG

ARLINGTON HEIGHTS, IL NOTE:

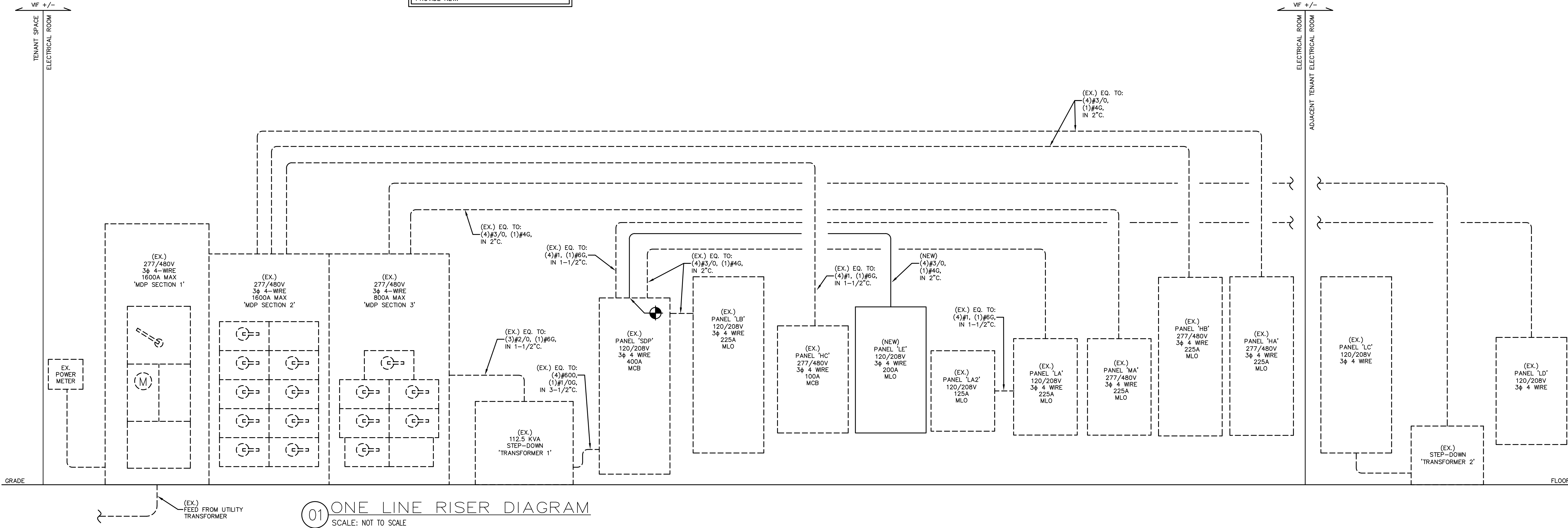
NOT ALL EXISTING PANELS ARE BEING REUSED IN THIS FINISHOUT. ALL PANELS NOT BEING UTILIZED SHALL BE LEFT IN THE OFF POSITION. OWNER SHALL COORDINATE WITH G.C. IF THE DEMOLITION OF UNUSED PANELS IS DESIRED.

ARLINGTON HEIGHTS, IL NOTE:

CONTRACTOR MAY REUSE PORTIONS OF CONDUITS AND CONDUCTORS WHERE PRACTICAL AND WHERE ADEQUATE IN SIZE, CONDITION, AND CAPACITY.

ARLINGTON HEIGHTS, IL NOTE:

INTENT OF DESIGN IS TO REUSE EXISTING SERVICE ENTRY GEAR AND REUSE/RELOCATE DISTRIBUTION GEAR AND PANELS. EXISTING PANELS, BREAKERS, WIRING, CONDUITS, DISCONNECTS, ETC. INTENDED FOR REUSE SHALL BE REFURBISHED AND BROUGHT TO LIKE-NEW CONDITION. WHERE IN TOO POOR CONDITION FOR REUSE, CONTRACTOR SHALL PROVIDE NEW.



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Construction Management:
Foxfield



No.	Description	Date
A	Issue for Permit	2024.12.20

DRAWN BY: AM
CHECKED BY: BA
PROJ. NO: 23-053
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ELECTRICAL RISER DIAGRAM

E3.0

OVERALL MDP LOAD													
MAIN 1600A				VOLTAGE: 480/277				PHASE: 3				WIRE: 4	
MTG: FLOOR				A/C: EX				NOTES:					
CIRCUIT BREAKER				LOAD (KVA)								PHASE	
OKT	#	FRAMTRIP	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B C
-	-	-	-	MDP SECTION 2	0.0	0.7	0.0	72.3	0.0	0.0	43.2		
-	-	-	-		0.0	0.4	0.0	72.3	0.0	0.0	43.2		
-	-	-	-		1.1	0.7	0.0	72.3	0.0	0.0	43.2		
-	-	-	-	MDP SECTION 3	4.8	14.8	0.0	83.4	0.0	27.7	10.2		
-	-	-	-		6.6	17.3	0.0	83.4	0.0	23.2	10.6		
-	-	-	-		4.8	20.8	0.0	83.4	0.0	20.1	10.6		
-	-	-	-		17.4	54.8	0.0	467.0	0.0	71.1	160.9		
CONNECTED LOAD (KVA):					771.2				PHASE A				928.1
DEMAND LOAD (KVA):					723.9				PHASE B				257.0
CONNECTED LOAD (AMPS)					927.6				PHASE C				257.0
DEMAND LOAD (AMPS):					870.7				AMPS				KVA
AMPACITY REQUIRED:					876.0								
NOTES:													

AMPACITY REQD CALCS

LIGHTING	17.41	KV/X	125	%	=	21.8	KVA
RECEPTACLE TOTAL	54.76	KVA					
1ST	10.00	KV/X	100	%	=	10.0	KVA
REMAIN	44.76	KV/X	50	%	=	22.4	KVA
MOTORS	TOTAL	0.00	KV/X	100	%		
LARGEST		KV/X	125	%	=	0.0	KVA
REMAIN	0.00	KV/X	100	%	=	0.0	KVA
A/C	467.04	KV/X	100	%	=	467.0	KVA
HEATING	0.00	KV/X	100	%	=	0.0	KVA
LOCKED-OUT LOAD		KV/X	100	%	=	0.0	KVA
KITCHEN	71.06	KV/X	65	%	=	46.2	KVA
MISCELLANEOUS	160.92	KV/X	100	%	=	160.9	KVA
TOTAL					=	728.3	KVA

MAIN SWITCHGEAR SCHEDULE -MDP-3 SECTION 3'													
MAIN 800A				VOLTAGE: 480/277				PHASE: 3				WIRE: 4	
MTG: FLOOR				A/C: EX				NOTES:					
CKT #	CIRCUIT BREAKER				LOAD (KVA)							PHASE	
	FRAME	TRIP	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B C
1	-	200	3	SPARE:									
-	-	-	-										
2	-	200	3	TRANSFORMER 2 (OFF POSITION)									
-	-	-	-										
3	-	200	3	PANEL MA	0.0	0.0	0.0	52.9	0.0	0.0	2.7		
-	-	-	-		0.0	0.0	0.0	52.9	0.0	0.0	2.7		
-	-	-	-		0.0	0.0	0.0	52.9	0.0	0.0	2.7		
4	-	125	3	RTU-2				30.5					
-	-	-	-					30.5					
-	-	-	-					30.5					
5	-	200	3	PANEL 'SDP'	4.8	14.8	0.0	0.0	0.0	27.7	7.5		
-	-	-	-	VIA TRANSFORMER 1	6.6	17.3	0.0	0.0	0.0	23.2	7.9		
-	-	-	-		4.8	20.8	0.0	0.0	0.0	20.1	7.9		
6	-	60	3	SPARE:									
-	-	-	-										
7	-	-	-	SPACE									
-	-	-	-										
-	-	-	-										
					16.3	53.0	0.0	250.1	0.0	71.1	31.3		
CONNECTED LOAD (KVA):				421.8					PHASE A				508.6
DEMAND LOAD (KVA):				375.4					PHASE B				140.9
									PHASE C				141.2
CONNECTED LOAD (AMPS):				507.3					PHASE A				504.3
DEMAND LOAD (AMPS):				451.6					AMPS				139.7
													KVA
AMPACITY REQUIRED:				456.5									
NOTES:													

AMPACITY REQD CALCS

LIGHTING	16.29	KV	X	125	%	=	20.4	KVA
RECEPTACLE TOTAL	52.96	KVA						
1ST	10.00	KV	X	100	%	=	10.0	KVA
REMAIN	42.96	KV	X	50	%	=	21.5	KVA
MOTORS	TOTAL	0.00	KV	X	100	%		
LARGEST								
REMAIN	0.00	KV	X	100	%	=	0.0	KVA
A/C	250.15	KV	X	100	%	=	250.1	KVA
HEATING	0.00	KV	X	100	%	=	0.0	KVA
LOCKED-OUT LOAD		KV	X	100	%	=	0.0	KVA
KITCHEN	71.06	KV	X	65	%	=	46.2	KVA
MISCELLANEOUS	31.32	KV	X	100	%	=	31.3	KVA
TOTAL						=	378.5	KVA

MAIN SWITCHGEAR SCHEDULE -'MDP SECTION 2'															
MAIN 1600A				VOLTAGE: 480/277		PHASE: 3				WIRE: 4					
MTG: FLOOR				A/C: EX		NOTES:									
CKT #	CIRCUIT BREAKER			DESCRIPTION	LOAD (KVA)							PHASE			
	FRAME	TRIP			POLE	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C
1	-	30	3	SPARE											
	-	-	-												
	-	-	-												
2	-	-	3	SPACE											
	-	-	-												
	-	-	-												
3	-	200	3	PANEL HA											
	-	-	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6			
	-	-	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6			
	-	-	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6			
4	-	200	3	PANEL HB											
	-	-	-		0.0	0.7	0.0	0.0	0.0	0.0	0.0	21.6			
	-	-	-		0.0	0.4	0.0	0.0	0.0	0.0	0.0	21.6			
	-	-	-		1.1	0.7	0.0	0.0	0.0	0.0	0.0	21.6			
5	-	200	3	SPARE											
	-	-	-												
	-	-	-												
6	-	80	3	RTU-4											
	-	-	-						19.9						
	-	-	-						19.9						
	-	-	-						19.9						
7	-	125	3	RTU-1											
	-	-	-						32.4						
	-	-	-						32.4						
	-	-	-						32.4						
8	-	80	3	RTU-3											
	-	-	-						19.9						
	-	-	-						19.9						
	-	-	-						19.9						
9	-	100	3	SPARE											
	-	-	-												
	-	-	-												
	-	-	-												
10	-	100	3	PANEL HC											
	-	-	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	-	-	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	-	-	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	-	-	-		1.1	1.8	0.0	216.9	0.0	0.0	0.0	129.6			
CONNECTED LOAD (KVA):				349.4					PHASE A				419.6		
DEMAND LOAD (KVA):				349.4					PHASE B				418.3	115.9	
CONNECTED LOAD (AMPS)				420.3					PHASE C				423.6	117.3	
DEMAND LOAD (AMPS):				420.3					AMPS					KVA	
AMPACITY REQUIRED:				420.6											

*BALANCE ALL PANELS TO WITHIN 10%
**COORDINATE FINAL EQUIPMENT BREAKER SIZES WITH NAMEPLATES OF EQUIPMENT DELIVERED TO JOB SITE.

AMPACITY REQD CALCS

LIGHTING	1.12	KV	X	125	%	=	1.4	KVA
RECEPTACLE TOTAL	1.80	KVA						
1ST	10.00	KV	X	100	%	=	1.8	KVA
REMAIN	0.00	KV	X	50	%	=	0.0	KVA
MOTORS	TOTAL	0.00	KV	X	100	%	=	
LARGEST								
REMAIN	0.00	KV	X	100	%	=	0.0	KVA
A/C	216.89	KV	X	100	%	=	216.9	KVA
HEATING	0.00	KV	X	100	%	=	0.0	KVA
LOCKED-OUT LOAD		KV	X	100	%	=	0.0	KVA
KITCHEN	0.00	KV	X	65	%	=	0.0	KVA
MISCELLANEOUS	129.60	KV	X	100	%	=	129.6	KVA
TOTAL						=	349.7	KVA

PANELBOARD SCHEDULE - 'HA' (EX.)																																																
MAIN: 225A MCB				VOLTAGE: 480/277										PHASE: 1				WIRE: 4				MOUNTING: SURFACE				A/C:		EX																				
CKT #	TRIP	POLE	DESCRIPTION	LOAD (KVA)					PHASE					LOAD (KVA)					DESCRIPTION	TRIP	CKT #																											
				LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG				KIT	MISC																									
1	30/3	-	GO-KART CHARGER	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	30/3	2																						
3	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	-	4																						
5	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	-	6																						
7	30/3	-	GO-KART CHARGER	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	30/3	8																						
9	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	-	10																						
11	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	-	12																						
13	30/3	-	GO-KART CHARGER	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	30/3	14																						
15	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	-	16																						
17	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	-	18																						
19	30/3	-	GO-KART CHARGER	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	20/1	20																						
21	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	20/1	22																						
23	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	20/1	24																						
25	30/3	-	GO-KART CHARGER	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	20/1	26																						
27	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	20/1	28																						
29	-	-	-	-	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	2.7	-	-	-	-	-	20/1	30																						
31	20/1	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32																						
33	20/1	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34																						
35	20/1	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36																						
37	20/1	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38																						
39	-	-	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40																						
41	-	-	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42																						
LIGHTING (KVA):				0.0					0.0					0.0					0.0					0.0					24.3					CONNECTED LOAD (KVA):					64.8									
RECEPTACLES (KVA):				0.0					0.0					0.0					0.0					0.0					0.0					0.0					DEMAND LOAD (KVA):					64.8				
MOTORS (KVA):				0.0					PHASE A					22					78.0															DEMAND LOAD (KVA):					64.8									
A/C (KVA):				0.0					PHASE B					22					78.0															CONNECTED LOAD (AMPS):					77.9									
HEATING (KVA):				0.0					PHASE C					22					78.0															DEMAND LOAD (AMPS):					77.9									
KITCHEN (KVA):				0.0					KVA					AMPS																																		
MISCELLANEOUS (KVA):				64.8																																			AMPACITY REQUIRED:					77.9				
NOTE BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.																																																
(a) - PROVIDE HACR TYPE CIRCUIT BREAKER																																																

PANELBOARD SCHEDULE - 'LA' (EX.)																									
MAIN: 225A MCB				VOLTAGE: 208/120										PHASE 3 WIRE 4				MOUNTING: RECESSED				AIC:	EX		
CKT #	TRIP POLE	DESCRIPTION		LOAD (KVA)										LOAD (KVA)										TRIP POLE	CKT #
		LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION						
1	1003	PANEL LA2	1.2	3.5	0.0	0.0	0.0	0.0	0.0									1.5	FLUP CAR LIGHTING	201	2				
3	-	-	0.0	2.7	0.0	0.0	0.0	0.0	0.5									1.2	FLUP CAR SPEAKERS	201	4				
5	-	-	1.0	4.2	0.0	0.0	0.0	0.0	0.5									1.6	FLUPSPIN CAR CONTROLLER	201	6				
7	201	ROPES COURSE																1.6	FLUP CAR CHARGER	201	8				
9	201	SKY RIDER - ADVENTURE HUB																1.6			-	10			
11	201	ADVENTURE HUB																1.6	FLUP CAR CHARGER	201	12				
13	201	WARRIOR COURSE																1.6			-	14			
15	201	WARRIOR COURSE																1.6	SPIN CAR CHARGER	201	16				
17	201	WARRIOR LED LTG.	1.5															1.6	SPIN CAR CHARGER	201	18				
19	201	CLIMBING WALLS / LEAP OF FAITH												0.9				0.7	LASER TAG BASE REC. (T1)	201	20				
21	201	DOODGEBALL CLOCK												0.2				0.7	LASER TAG TARGET REC. (E1)	201	22				
23	201	SPARE																0.7	LASER TAG TARGET REC. (E1)	201	24				
25	202	FLUP CAR CHARGER												1.6				1.1	LASER TAG ENERGY GATE REC. (T1)	201	26				
27	-	-												1.6				0.7	LASER TAG SOUND SYSTEM REC. (S1)	201	28				
29	202	FLUP CAR CHARGER												1.6				0.4	LASER TAG CENTER PROP. (T1)	201	30				
31	201	SPARE												1.6				0.7	SKY RIDER - TRANSFER STATION	201	32				
33	201	SPARE												1.1				1.1	LASER TAG VEST CHARGING (V1)	201	34				
35	201	SPARE												1.1				1.1	LASER TAG VEST CHARGING (V1)	201	36				
37	201	TV												0.9				0.4	LASER TAG BRIEFING TV/SCOREBOARD	201	38				
39	201	TV												0.9				1.6	SPIN CAR CHARGER	201	40				
41	201	SPARE																1.6	SPIN CAR CHARGER	201	42				
RECEPTACLES (KVA):		26.6		3.7	19.1	0.0	0.0	0.0	0.0	0.0	7.4	0.0	7.5	0.0	0.0	0.0	0.0	16.9	CONNECTED LOAD (KVA):		54.7				
MOTORS (KVA):		0.0																	DEMAND LOAD (KVA):		46.4				
A/C (KVA):		0.0																	PHASE A		20	170.3			
HEATING (KVA):		0.0																	PHASE B		16	137.0			
KITCHEN (KVA):		0.0																	PHASE C		18	148.3			
MISCELLANEOUS (KVA):		24.3																	KVA		AMPS				
																			AMPCITY REQUIRED:		131.2				
NOTE: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.																									
(a) - PROVIDE HACR TYPE CIRCUIT BREAKER																									

AMPACITY REQD CALCS

LIGHTING	3.70	KVA	X	125	%	=	4.6 KVA	
RECEPTACLE TOTAL	26.64	KVA						
1ST	10.00	KVA	X	100	%	=	10.0 KVA	
REMAIN	16.64	KVA	X	50	%	=	8.3 KVA	
MOTORS	TOTAL	0.00	KVA	X	100	%	=	
LARGEST		KVA	X	125	%	=	0.0 KVA	
REMAIN	0.00	KVA	X	100	%	=	0.0 KVA	
A/C	0.00	KVA	X	100	%	=	0.0 KVA	
HEATING	0.00	KVA	X	100	%	=	0.0 KVA	
LOCKED-OUT LOAD		KVA	X	100	%	=	0.0 KVA	
KITCHEN	0.00	KVA	X	65	%	=	0.0 KVA	
MISCELLANEOUS	24.34	KVA	X	100	%	=	24.3 KVA	
TOTAL						=	47.3 KVA	

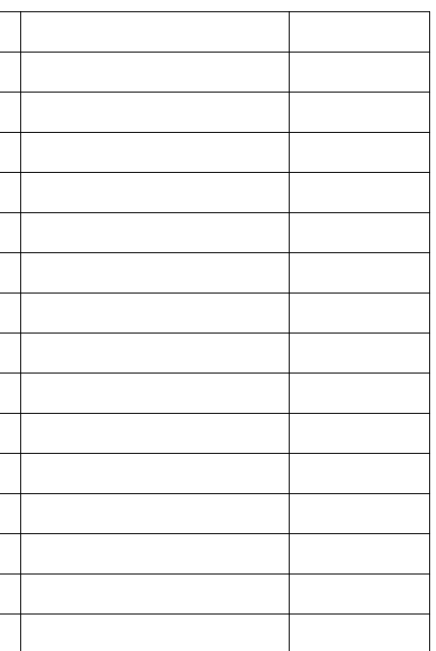
PANELBOARD SCHEDULE - 'LA2' (EX.)																													
MAIN: 125A MLO				VOLTAGE: 208/120										PHASE 3				WIRE 4				MOUNTING: RECESSED				AIC:		EX	
CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA)										LOAD (KVA)										TRIP POLE	CKT #					
			LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION									
1	201	SLAM DUNK																											
3	201	SPARE																											
5	201	LIMITLESS VR REC																											
7	201	LIMITLESS VR REC																											
9	201	LASER TV REC																											
11	201	SPARE																											
13	201	LASER TAG SIGN																											
15	201	SPARE																											
17	201	SUBWOOFER APEX																											
19	201	SUBWOOFER DODGEBALL																											
21	201	FIRE ALARM PANEL 1																											
23	201	FIRE ALARM PANEL 2																											
25	-	SPACE																											
27	-	SPACE																											
29	-	SPACE																											
LIGHTING (KVA):			2.2																										
RECEPTACLES (KVA):			10.3																										
MOTORS (KVA):			0.0																										
A/C (KVA):			0.0																										
HEATING (KVA):			0.0																										
KIT CHEN (KVA):			0.0																										
MISCELLANEOUS (KVA):			1.0																										
NOTE: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.																													
(a) - PROVIDE 'HACR' TYPE CIRCUIT BREAKER																													

AMPACITY REQD CALCS

LIGHTING	2.20	KVA	X	125	%	=	2.8 KVA
RECEPTACLE TOTAL	10.34	KVA					
1ST	10.00	KVA	X	100	%	=	10.0 KVA
REMAIN	0.34	KVA	X	50	%	=	0.2 KVA
MOTORS	0.00	KVA	X	100	%	=	0.0 KVA
TOTAL LARGEST	0.00	KVA	X	125	%	=	0.0 KVA
REMAIN	0.00	KVA	X	100	%	=	0.0 KVA
A/C	0.00	KVA	X	100	%	=	0.0 KVA
HEATING	0.00	KVA	X	100	%	=	0.0 KVA
LOCKED-OUT LOAD	_____	KVA	X	100	%	=	0.0 KVA
KITCHEN	_____	KVA	X	65	%	=	0.0 KVA
MISCELLANEOUS	1.00	KVA	X	100	%	=	1.0 KVA
TOTAL						=	13.9 KVA

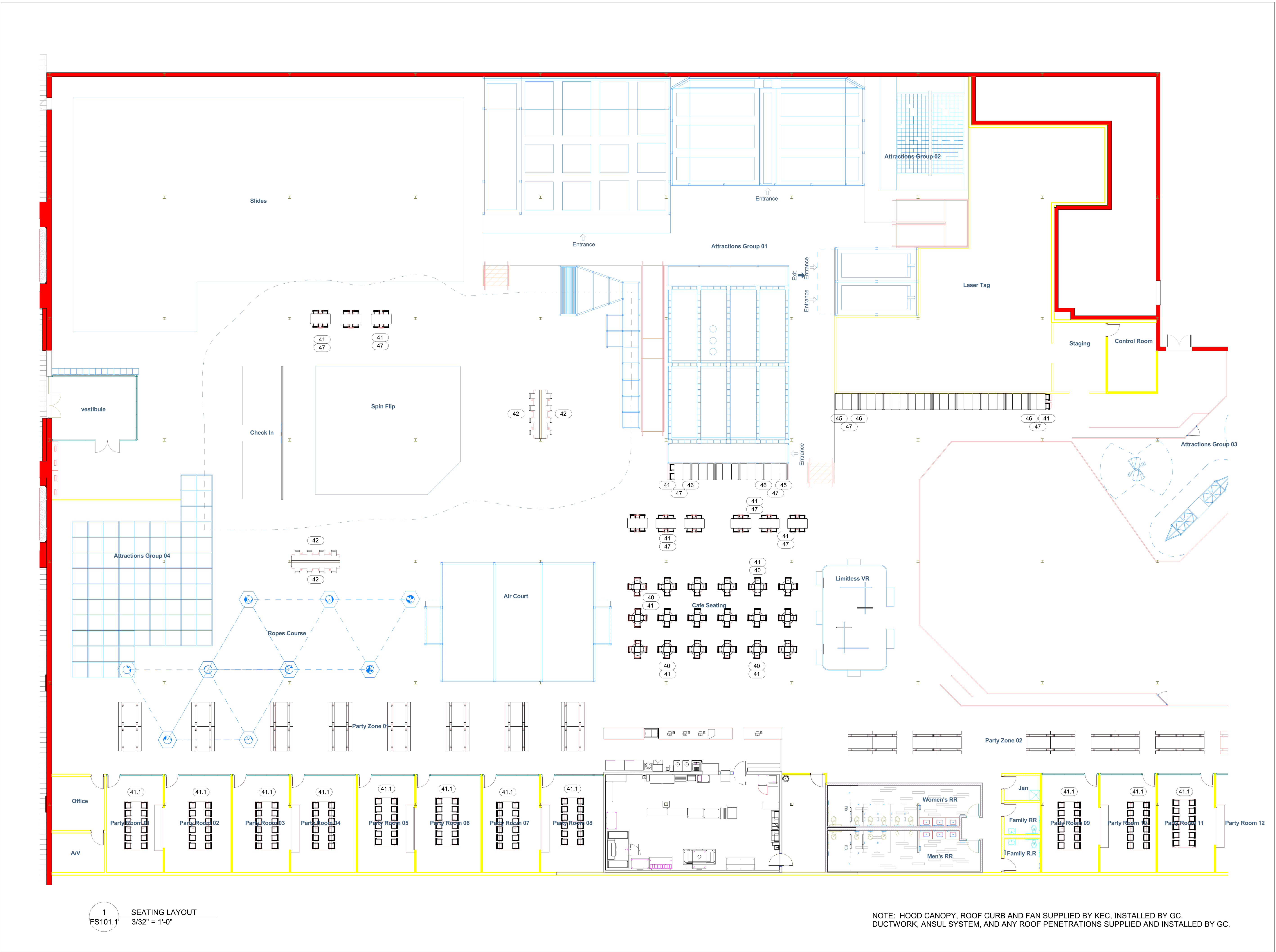


Construction Management:
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60103, United States
80-712-2550
Contact: Thomas R Piazza II
tpiazza@foxfieldltd.com



Seating Layout

NOTE: HOOD CANOPY, ROOF CURB AND FAN SUPPLIED BY KEC, INSTALLED BY GC.
DUCTWORK, ANSUL SYSTEM, AND ANY ROOF PENETRATIONS SUPPLIED AND INSTALLED BY GC





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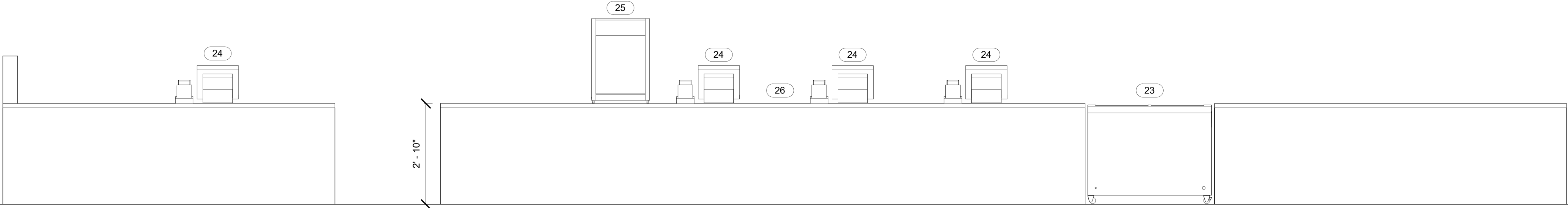
Electrical Rough-Ins & Schedule

FS103

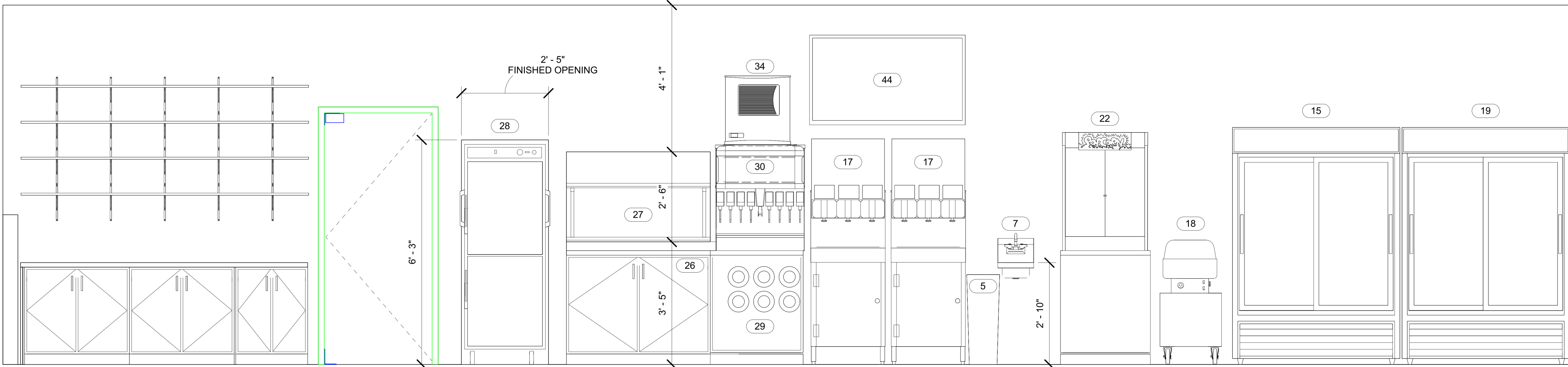
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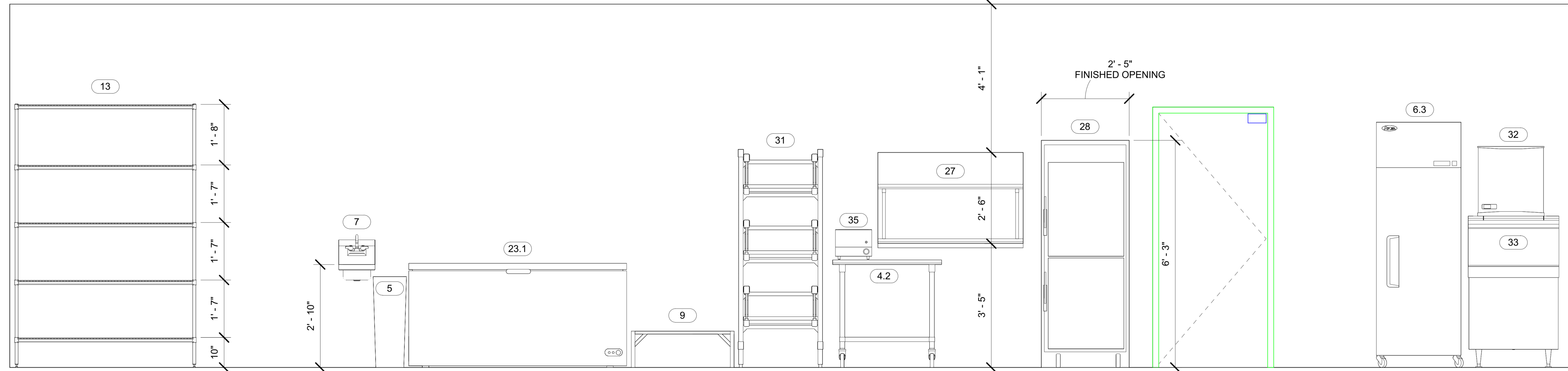
FS103



1 FRONT COUNTER
1/2" = 1'-0"



2 BACK COUNTER
1/2" = 1'-0"



3 ICE BIN & MACHINE
1/2" = 1'-0"

NOTE: HOOD CANOPY, ROOF CURB AND FAN SUPPLIED BY KEC, INSTALLED BY GC.
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www.conceptservices.net

URBAN AIR

Chicago, IL
Arlington Heights

SUBMITTAL DATE

REVISION DATE

DRAWN BY: H
CHECKED BY: SB
SCALE: 1/2" = 1'-0"
DATE: 08/27/2024

ELEVATION

FS105



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tpiazza@foxfieldtd.com



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Elevation

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Elevation

FS105.1





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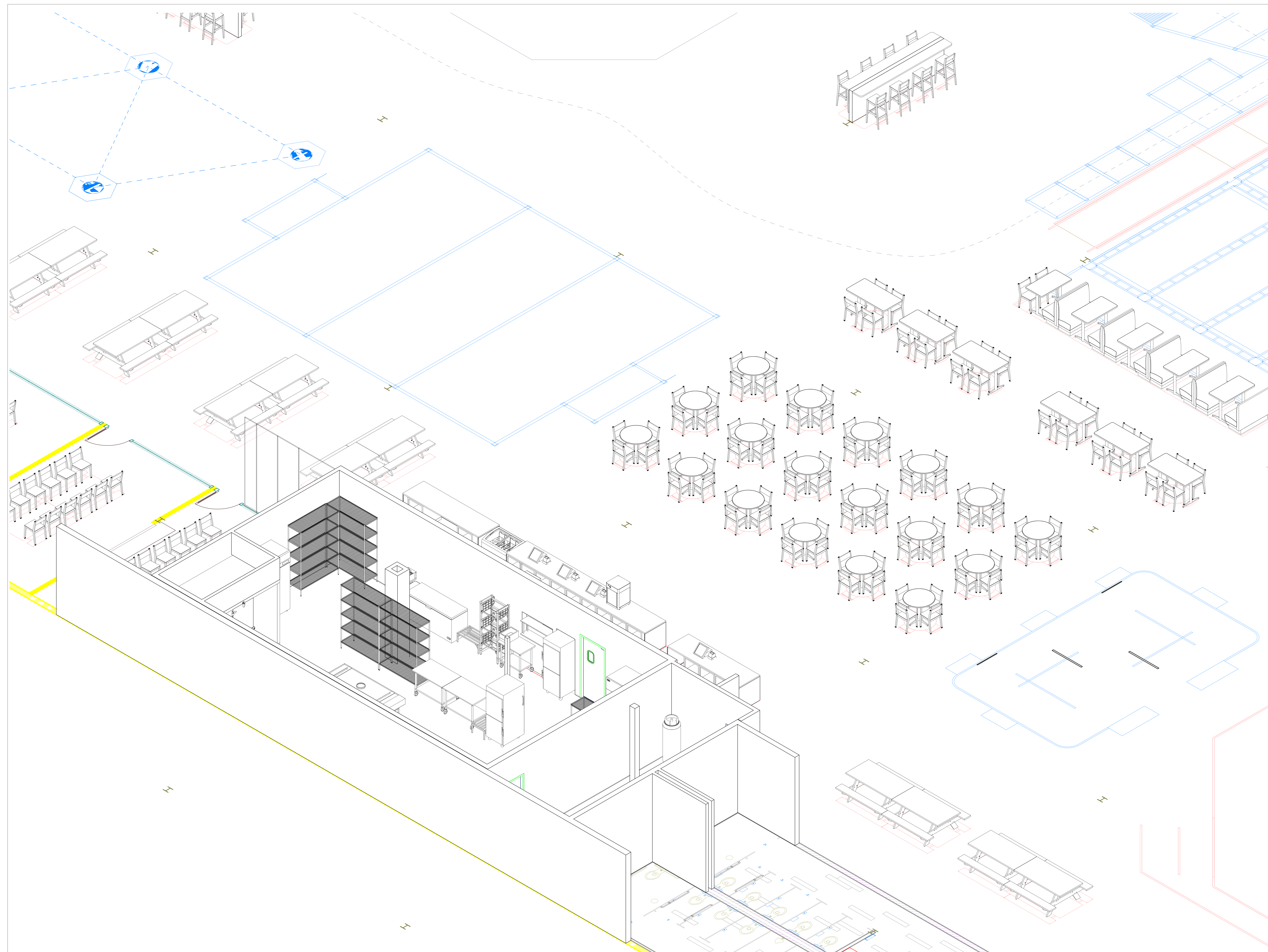
Construction Management:
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ISO

FS106



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www.conceptservices.net

URBAN AIR

Chicago, IL
Arlington Heights

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REVISION	DATE
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H	SB

SCALE:	DATE: 08/22/2024
--------	---------------------

ISO

FS106



PISTIL CONSORTIA
BOUTIQUE ARCHITECTURE

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BY: BA
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Vendor - Audio Visual
Technology plan

Page 313 of 352

Cable Legend:

GENERAL - TSN CABLING TYPES

The diagram illustrates the wiring for the Phoenix Contact P106M-BULK connector across six different cable types. Each cable type is shown with its internal structure, the connector's pinout, and the corresponding wiring to a terminal block.

22-02 Shielded: Shows a shielded cable with two conductors. The wiring is: 1. GROUND, 2. NEGATIVE, 3. POSITIVE.

14-02: Shows a cable with two conductors. The wiring is: 1. GROUND, 2. NEGATIVE, 3. POSITIVE.

CATEGORY 6: Shows a 6-pair cable. The wiring is: 1. GROUND, 2. NEGATIVE, 3. POSITIVE.

18-02 Shielded: Shows a shielded cable with two conductors. The wiring is: 1. GROUND, 2. NEGATIVE, 3. POSITIVE.

16-02: Shows a cable with two conductors. The wiring is: 1. GROUND, 2. NEGATIVE, 3. POSITIVE.

22-02 Shielded: Shows a shielded cable with two conductors. The wiring is: 1. GROUND, 2. NEGATIVE, 3. POSITIVE.

NOTE: Phoenix connector pinout is based on HOSA parts P10X-106M-BULK and P10X-106F-BULK. If you encounter an unfamiliar connector, use your multi-meter to verify pinout by testing continuity.

1	GROUND
2	NEGATIVE
3	POSITIVE

NOTE: Phoenix connector pinout is based on HOSA parts PHX-106M-BULK and PHX-106F-BULK. If you encounter an unfamiliar connector, use your multi-meter to verify pinout by testing continuity.

Optional Upgrades Selected:

☐ _____

☐ TelStar Control

☐ A 11. 11. 11. 11. 11. 11.

☐ Attraction Lighting Integration

☐ UV Floodlight

☐ UV Flood Light

☐ Laser Tag UV Blacklight

☐ Laser Tag UV Blacklight

Optional Upgrades Selected:

- ☐ TelStar Control
- ☐ Attraction Lighting Integration
- ☐ UV Flood Light
- ☐ Laser Tag UV Blacklight

Page 313 of 352



LumenAir and Go Kart Track Lighting Plan
UA Chicago Arlington Heights
30 W Rand Rd
Arlington Heights, IL 60004



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Vendor - Audio Visual
Lighting

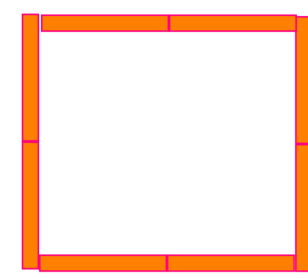
AV-02

LUMENAIR LIGHTING

24v DC, DMX-controlled, 2 lamp, 16ft. fixture x79

24v DC, DMX-controlled, 2 lamp, 16ft. fixture mounted under Go Kart Track x6

24v DC, DMX-controlled, 1 lamp, 8ft. fixture x28



24v DC, DMX-controlled, 4 lamp, 8ft. x 8ft. fixture x3

Total Fixtures= 116

Total 8" Lamps= 201

Total Universe Count= 52

Universe Layout completed once

lighting plan is finalized.

LumenAir lamps are supplied in 8'

segments and connected onsite

per layout

LumenAir Power Requirements :
3x 120v 20amp dedicated circuits required for high bay
24v DC power supplies. 80" AFF tied to Emergency
Lighting Panel. See field notes for location.
All LUNAs to be located in same room as power supplies
with a Cat6 cable for each LUNA to AV Rack Room.

Installation Notes:
All LumenAir fixtures need to be oriented in the same
direction, with all 90° pigtail connections on the same side.

LumenAir fixtures are recommended to be mounted 16-18'
AFF for required brightness.

All lighting and equipment to be mounted as high as
possible throughout space

Adjust locations as necessary to avoid HVAC, other
overhead utilities, and attraction supports

**Fire Alarm Interface for Audio Mute and Lighting
turning White:**

Fire Alarm Contractor to provide a set of dry contacts
"Normally Open" on the wall or ceiling of the AV Rack
location "MDP". TSN will wire from these contacts to our
rack and system. TSN requires a pre-test with Fire Alarm
contractor prior to AHJ inspection. We prefer minimum of
24 hours prior to AHJ inspection.

Emergency/Egress Lighting:

LumenAir lights may not qualify for Emergency/Egress
lighting, per local egress lighting requirements. TSN is not
responsible for providing Emergency/Egress lighting and
this should be coordinated with GC/EC team.

2x 120v 20amp dedicated
circuits required for AV rack.
18" AFF tied to Emergency
Lighting Panel.

Control Laptop Location with
(2) Cat6 connections to AV
rack.
Fire Alarm Relay located next
to Control Laptop

3x 120v 20amp dedicated
circuits required for high bay
24v DC power supplies. 80"
AFF tied to Emergency
Lighting Panel.

All LUNAs to be located in
same room as power
supplies with a Cat6 cable
for each LUNA to AV Rack
Room.

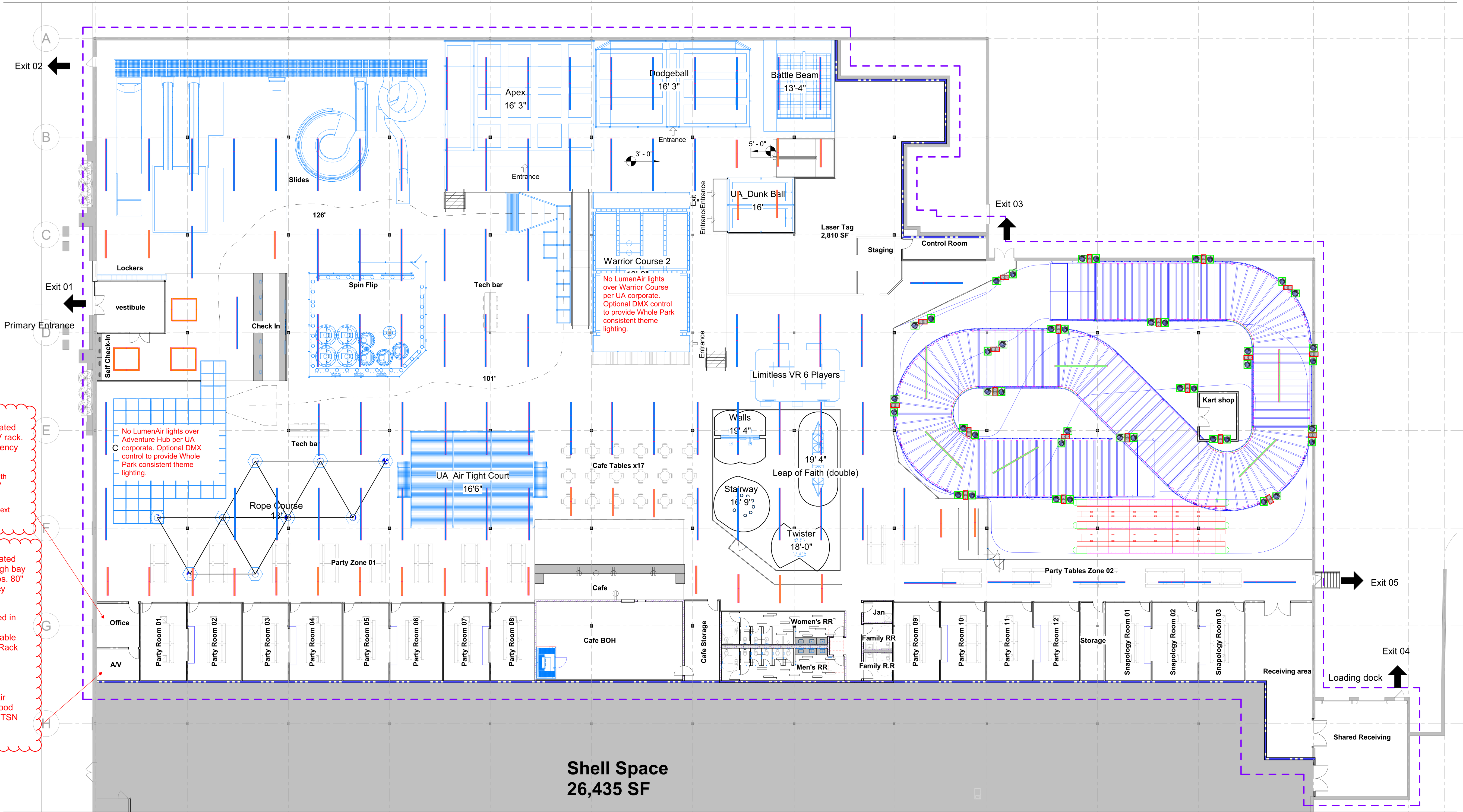
4x8 sheet of Plywood
mounted to wall for
installation of LumenAir
Power Supplies. Plywood
to be installed prior to TSN
Phase 1

GO KART TRACK LIGHTING:



LED Wash Fixture 18 W, 0.3 A @ 120 V - Mounted at ceiling

x42



Shell Space
26,435 SF



Themed Lighting and Audio Plan
UA Chicago Arlington Heights
30 W Rand Rd
Arlington Heights, IL 60004



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Urban Air -
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Heights, IL 60004

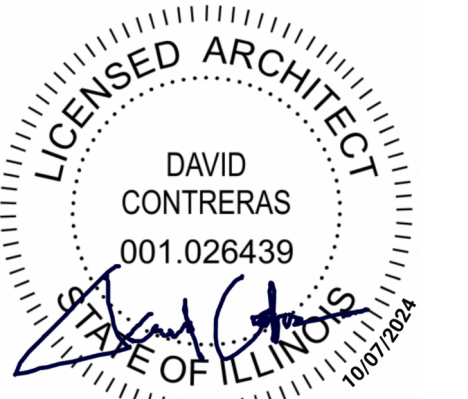
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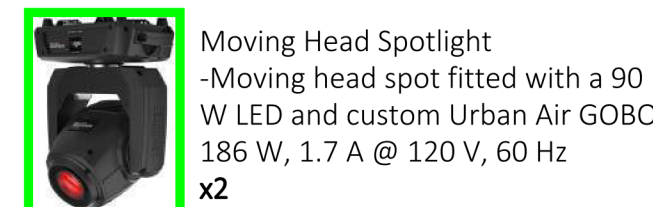
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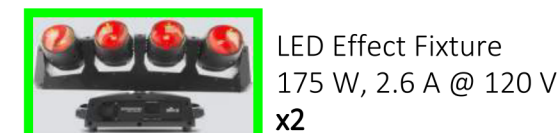
Vendor - Audio Visual
Theme Lighting and Audio
Plan

AV-03

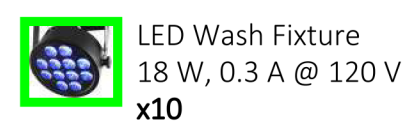
THEMED LIGHTING



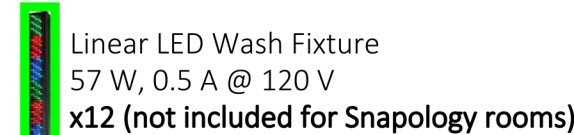
Moving Head Spotlight
Moving head spot fitted with a 90
W LED and custom Urban Air GOBO
186 W, 1.7 A @ 120 V, 60 Hz
x2



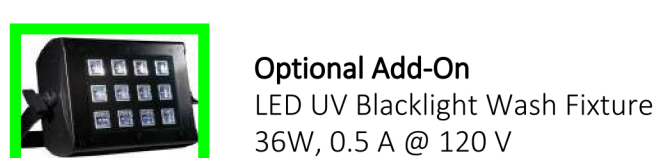
LED Effect Fixture
175 W, 2.6 A @ 120 V
x2



LED Wash Fixture
18 W, 0.3 A @ 120 V
x10



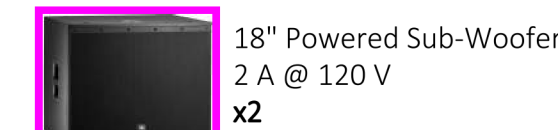
Linear LED Wash Fixture
57 W, 0.5 A @ 120 V
x12 (not included for Snapology rooms)



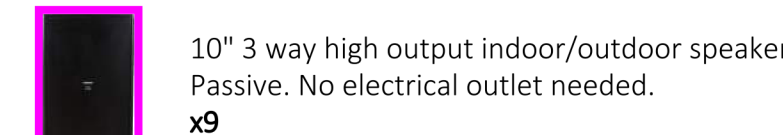
Optional Add-On
LED UV Blacklight Wash Fixture
36W, 0.5 A @ 120 V

Optional Add-On: Attraction Lighting Integration - DMX
control to provide Whole Park consistent theme lighting.

AUDIO



18" Powered Sub-Woofer
2 A @ 120 V
x2

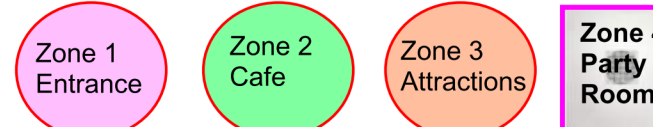


10" 3 way high output indoor/outdoor speaker
Passive. No electrical outlet needed.
x9

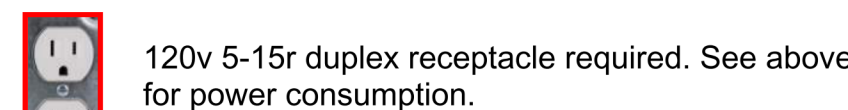


70v 2' x 2' Tile Replacement Speaker with volume controller.
Passive. No electrical outlet needed.
x15 (includes (3) Snapology rooms)

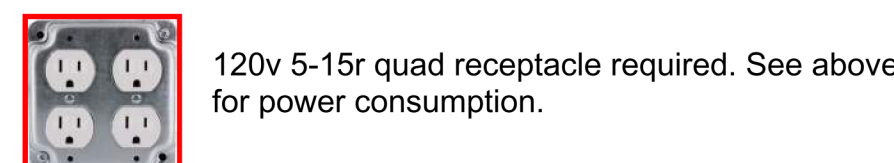
Party Room Volume Controls require single gang box with
conduit stub into ceiling and are installed next to light switch.



ELECTRICAL



120v 5-15r duplex receptacle required. See above
for power consumption.

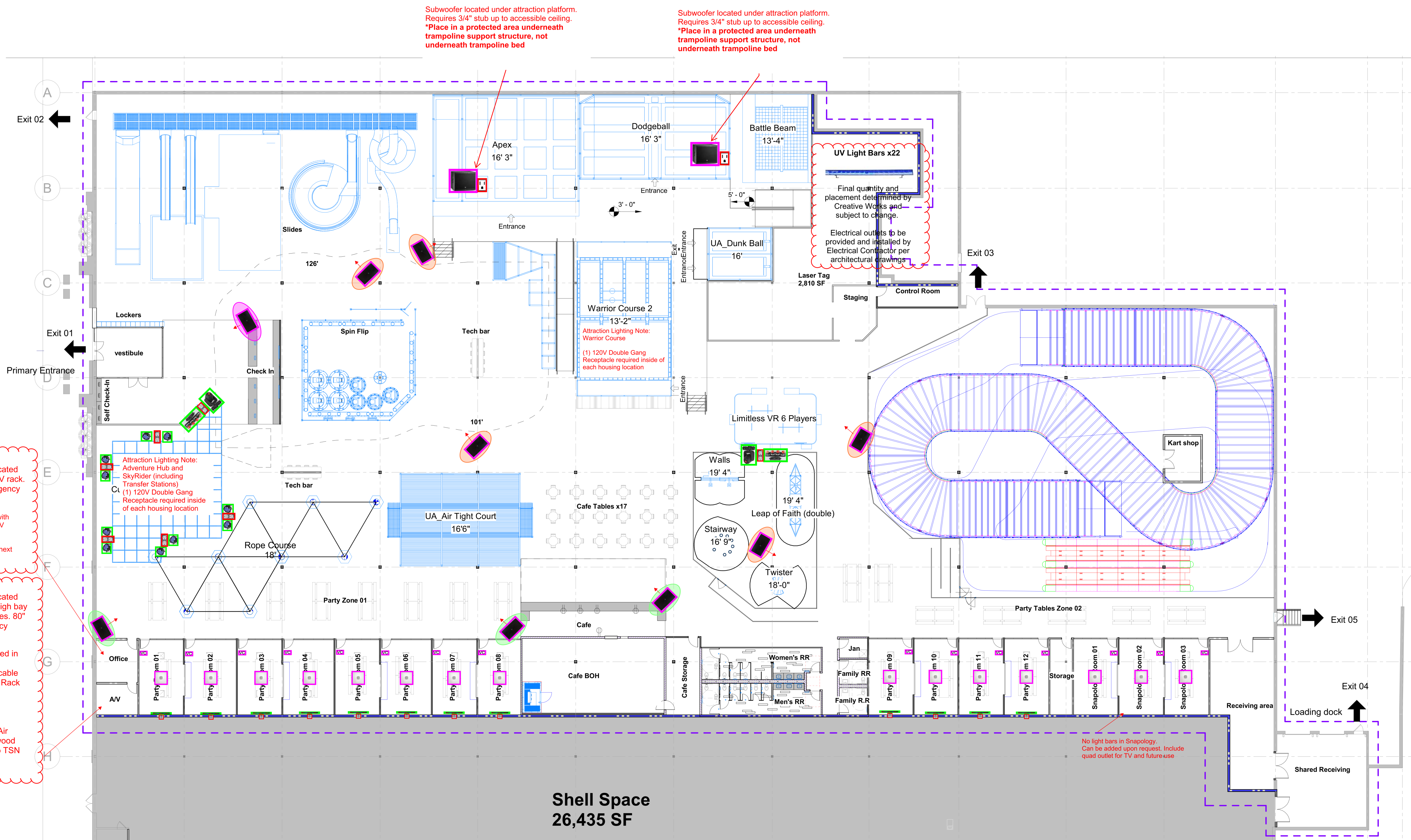


120v 5-15r quad receptacle required. See above
for power consumption.

MAIN DISTRIBUTION FRAME

- 1.) 28U Electronics Rack 20x20x49"
- 2.) Wireless Microphone (300' range)
- 3.) 10 outlet power distribution box
- 4.) Main audio mixer
- 5.) Main audio amplifier
- 6.) Managed router
- 7.) Managed 48port POE Switch
- 8.) NVR

*Requires (2) dedicated 120VAC 20amp
circuit-duplex receptacle at 18" AFF tied
to Emergency Lighting Panel



Shell Space
26,435 SF



CCTV, Network, and Television Plan
UA Chicago Arlington Heights
30 W Rand Rd
Arlington Heights, IL 60004



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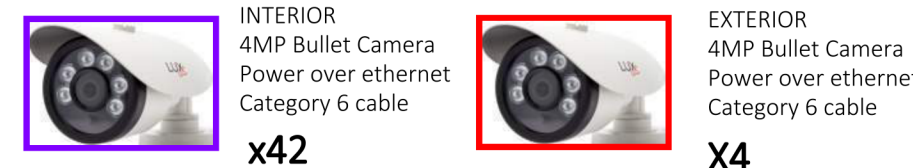


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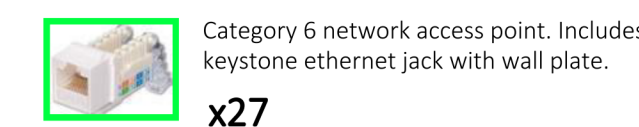
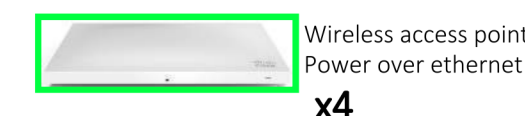
Vendor - Audio Visual CCTV,
Network and TV Plan

CCTV - includes Mezzanine qty



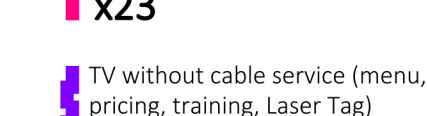
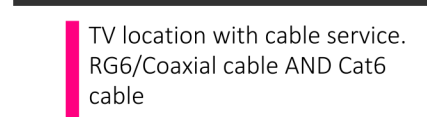
TSN provides a standard 64 channel NVR. Additional cameras will require the purchase of an additional NVR.
8079 of NVR storage will hold approximately 10-12 weeks of footage. Subject to change based on recording settings and park activity

NETWORK



ALL Data Drops require 3/4" stub ups and back boxes

TELEVISION



Suggested TV heights are indicated on plans whenever possible.
Final TV height to be determined by electrical receptacle placement, per recommendation of architecture team.

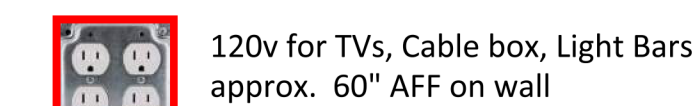
x4 Ceiling Mount

TV SIZES

55" ± = 32

32" ± = 1

ELECTRIC



MAIN DISTRIBUTION FRAME

- 28U Electronics Rack 20x20x45"
- Wireless Microphone (300' range)
- 30 outlet power distribution box
- Main audio mixer
- Main audio amplifier
- Managed router
- Managed 48port POE Switch
- NVR

*Requires (2) dedicated 120VAC 20amp circuit-duplex receptacle at 18" AFF tied to Emergency Lighting Panel



(2) 55" pricing TVs ceiling mounted above Front Desk Check In. TV height is site specific and should be determined by architect.

(1) 55" pricing TVs wall mounted above Self Check In. TV height is site specific and should be determined by architect.

2x 120v 20amp dedicated circuits required for AV rack. 18" AFF tied to Emergency Lighting Panel.

Control Laptop Location with (2) Cat6 connections to AV rack.
Fire Alarm Relay located next to Control Laptop

3x 120v 20amp dedicated circuits required for high bay 24v DC power supplies. 80" AFF tied to Emergency Lighting Panel.

All LUNAs to be located in same room as power supplies with a Cat6 cable for each LUNA to AV Rack Room.

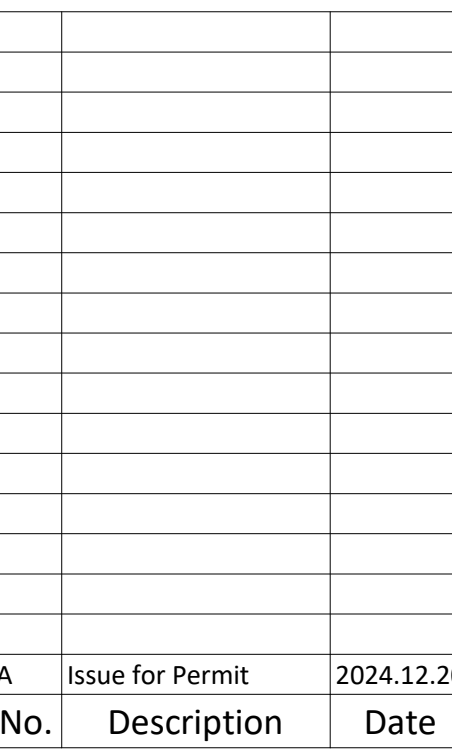
4x8 sheet of Plywood mounted to wall for installation of LumenAir Power Supplies. Plywood to be installed prior to TSN Phase 1

(1) 32" Articulating TV wall mounted for KDS. TV to be mounted by expo window approx 68" AFF.
Electrical Note: KDS System Needs HDMI plate at 68" AFF, down to another HDMI plate at 6" above counter. Both HDMI plates require duplex power next to them.

Shell Space
26,435 SF



Construction Management:
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60103, United States
80-712-2550
Contact: Thomas R Piazza II
tpiazza@foxfieldltd.com



Vendor - Spin Flip
Dimensions

Page 318 of 352

MODULAR FENCE REQUIREMENTS			
QTY	DESCRIPTION	PART NO	CALLOUT
19	8 FT FENCE SECTION	BC600A	-
1	END POST	BC600B	-
10	LINE POST	BC600C	-
2	45 DEGREE POST		
2	35' GATE (LEFT HAND)	BC600E	-
1	8FT, LINE POST, W/ TRANSMITTER, AMP, SPEAKER, & LIGHT MOUNT		
1	8 FT, LINE POST, W/ LIGHT MOUNT	BC611B	
2	8 FT, LINE POST, W/ LIGHT & SPEAKER MOUNT	BC611B	
2	8 FT, CORNER POST, W/ LIGHT & SPEAKER MOUNT		
4	GATE POST (DN GATES)	BC600J	-
75	3/8 X 3-3/4 WEDGE ANCHOR (5 EXTRA)	P865	-
2	HYDRAULIC GATE CLOSER	P301	-
4	GATE HANGER BOLT	P302	-
2	GRAVITY GATE LATCH	P303	-
27	CAP, FENCE POST (2 EXTRA)	EK273	-
2	EPDXY, LOCTITE (1 PER 20 CAPS)	BC007	-
110	TEK SCREW, #10 X 3/4" (12 EXTRA)	P451B	-
1	BLACK SPRAY PAINT (TROUGH UP)	EK900	-



Amusement Products, LLC
5954 Brainerd Road
Chattanooga, Tennessee 37421
phone: 423-892-7264
fax: 423-855-0432

title <i>SPIN ZONE BUMPER CAR ARENA</i> <i>DIMENSIONS</i>			
for <i>UA ARLINGTON</i>		revisions <i>9/3/24</i>	
date <i>8/6/24</i>		scale <i>1/2" = 1'</i>	
title <i>BC ARENA UA ARLINGTON</i>		checked by	page <i>2 of 2</i>

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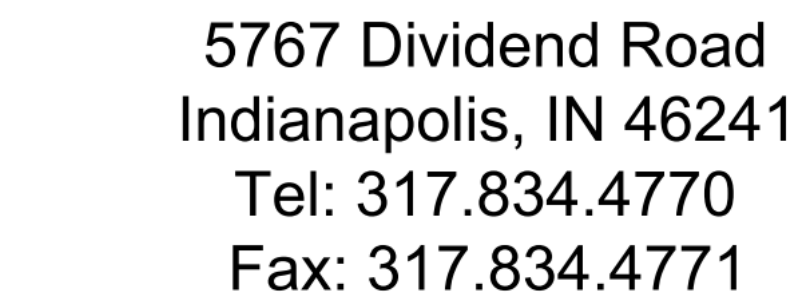
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Vendor - Go Kart Layout

A112

URBAN AIR OPEN CONCEPT – ATTRACTION PACKET SHEET INDEX		
□ A0.1 COVER SHEET □ A0.2 GENERAL NOTES □ A1.1 ATTRACTION PLAN □ A1.2 FLOOR PLAN □ A1.3 BLOCK PLAN	□ A2.1 ASA/PLATFORM STRUCTURE PLAN □ A3.1 REFLECTED CEILING PLAN □ A4.1 ASA REFLECTED CEILING PLAN □ D0.1 ASA HEIGHT REQUIREMENTS □ D0.X DETAIL, VESTING RACK RAILING	□ D0.5 DETAIL, CONTROL ROOM □ D0.6 OPEN WALL ELEVATION □ D0.7 ADDITIONAL NOTES □ E0.1 ELECTRICAL NOTES □ E1.1 ELECTRICAL PLAN □ E2.1 LOW VOLTAGE PLAN
TYPICAL SHEETS INCLUDED IN ATTRACTION PACKET. ACTUAL SHEETS MAY VARY.		



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AFF	Above Fixed Floor
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CWI	Creative Works Inc.
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DWG	Drawing
EA	Each
IBC	International Building Code
MAX	Maximum
MEP	Mechanical, Electrical, Plumbing
MIN	Minimum
MTD	Mounted
NTS	Not to Scale
SPEC	Specifications
TBD	To Be Determined
TYP	Typical

Drawing Name:

PISTIL CONSORTIA
BOUTIQUE ARCHITECTURE

PM: Constanza G. Wybert
817.945.6505



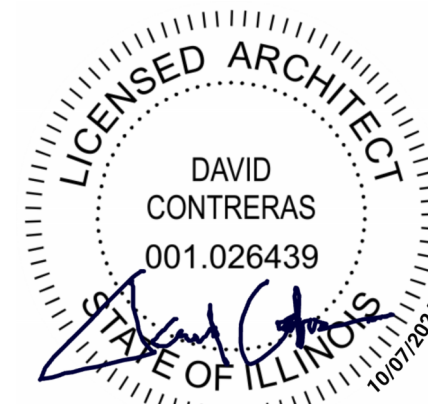
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No.	Description	Date
-----	-------------	------

ROJ. NO: 23-053

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A0.1

THESE NOTES REFLECT SPECIFIC INFORMATION RELATED TO THE LASER TAG ATTRACTION BASED ON THE ITEMS PURCHASED BY THE CLIENT FOR THIS LOCATION. THEY MAY NOT CONTAIN ALL RELEVANT LOCAL AND STATE CODE INFORMATION NECESSARY FOR THE SPACE AND SHOULD BE USED AS AN ADDITION TO ANY OTHER PERTINENT INFORMATION DEEMED APPROPRIATE BY THE ARCHITECT OF RECORD TO SATISFY BUILDING REQUIREMENTS.

1. IF FIRE RETARDANT MATERIALS ARE REQUIRED, NOTIFY CWI PROJECT MANAGEMENT AS SOON AS POSSIBLE.

1. AROUND THE PERIMETER OF THE ATTRACTION (ARENA, BRIEFING AND VESTING AS APPLICABLE INCLUDING ANY ELEVATED AREAS THAT TOUCH THE DRYWALL), USE 4' X 8' X 1/2" SMOOTH ONE (1) SIDED, FIRE TREATED (IF REQUIRED) PLYWOOD SHEETS. PLYWOOD SHOULD BE MOUNTED TO THE WALLS TO COVER 8' OF WALL SPACE FROM THE FLOOR TO MINIMIZE DAMAGE CAUSED BY NORMAL GAME PLAY. ALL PLYWOOD WALL FINISHES SHOULD BE TIGHT BUTT JOINTS WITHOUT TAPE AND MUD. IF CINDER BLOCK WALLS PLYWOOD IS NOT REQUIRED, BUT MUST BE PAINTED FLATBLACK.

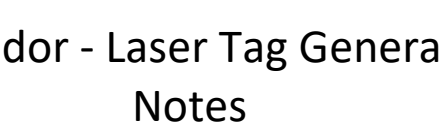
1. **ALL PEREIMTER WALLS IN ARENA AND STAGING TO BE PAINTED FLAT BLACK.**
2. EXIT SIGNS, ALARMS AND STROBE INDICATORS SHOULD REMAIN THEIR NATURAL COLORS.
3. SEMI-GLOSS FINISH BLACK PAINT ON ALL INTERIOR ATTRACTION DOOR SURFACES IS REQUIRED.
4. **PREP WHITE LIGHT SPACE FOR MURALS ACCORDING TO CWI MURAL CONCEPT.**

1. CARPET PADDING IS RECOMMENDED IN AREA WHERE THE LASER TAG EQUIPMENT IS STORED (I.E. VESTING AREA ONLY) FOR MINIMIZING DAMAGE TO DROPPED EQUIPMENT. ONLY ROLLED CARPET SHOULD BE USED. CARPET SQUARES TEND TO SHIFT OVER TIME.
2. **FINISHED POLISHED CONCRETE IN LASER TAG ARENA MUST BE SMOOTH AND FINISHED WITH NO DIVOTS, IMPRESSIONS, OR OTHER IMPERFECTIONS THAT COULD CREATE TRIPPING HAZARDS. CONCRETE FLOORS SHOULD BE SEALED WITH A NONSKID EPOXY SEALANT THAT IS LIGHT GRAY IN COLOR.**

1. IF DOING OPEN CONCEPT WITH OPENINGS INSTEAD OF DOORS, OPENINGS MUST BE FULLY FRAMED AND/OR HAVE PROTECTIVE COVERING.

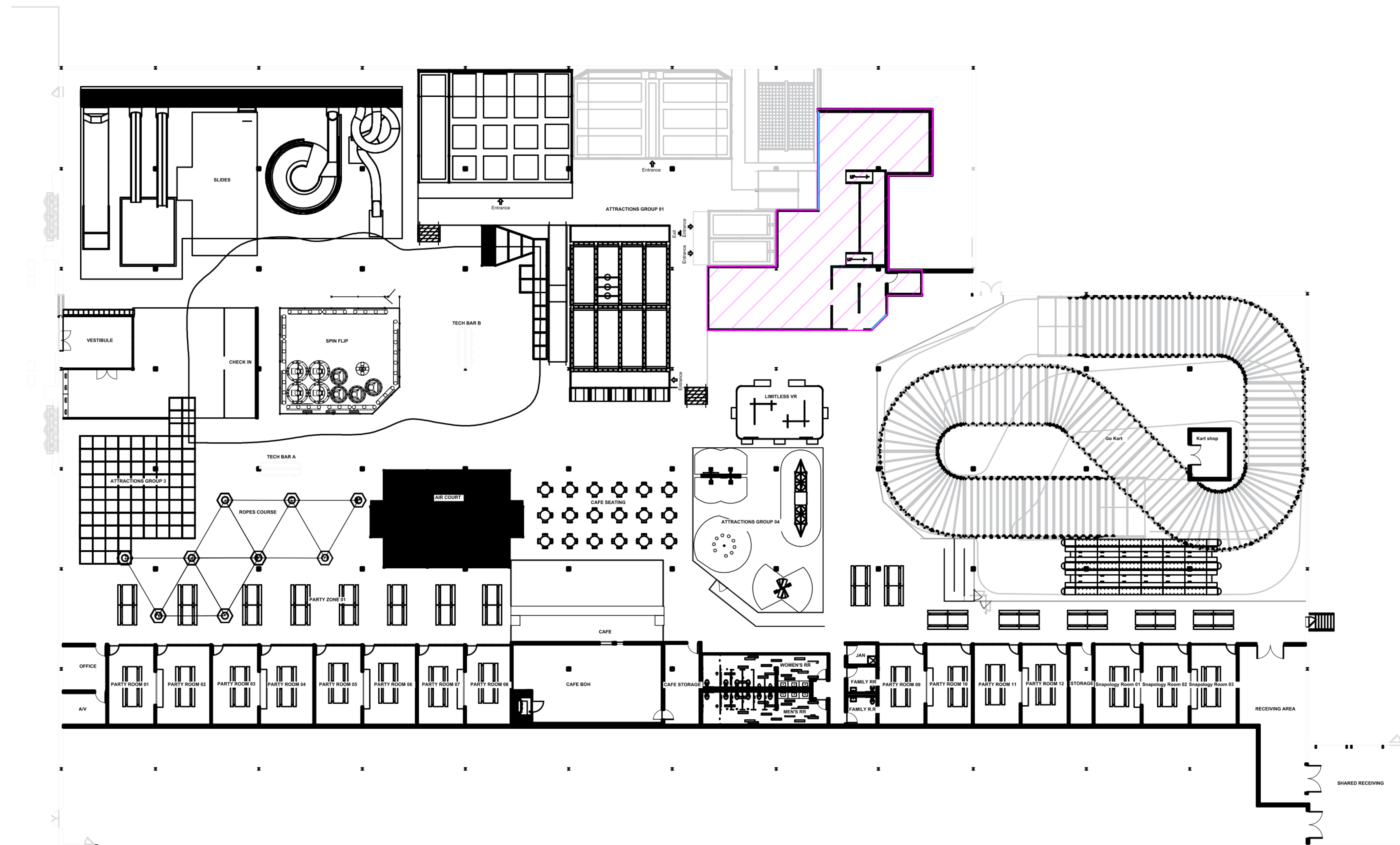
A0.2

GENERAL NOTES



 = ATTRACTION LOCATION

1. HIGHLIGHTED AREA TO DESIGNATE CWI PROVIDED ATTRACTION WITHIN FACILITY.



**CREATIVE
WORKS**



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Concept Design
NOT FOR CONSTRUCTION

General Notes:

Theme:
URBAN AIR 3.0

Approx Space sq. ft.

LL Arena:	1799 ft ²
UL Arena:	263 ft ²
Staging:	288 ft ²
Control:	66 ft ²

CLIENT APPROVAL

CLIENT
SIGNATURE: _____

DATE OF SIGNATURE: _____

No.	Revision	Date

Project Location and Name:

URBAN AIR
ARLINGTON HEIGHTS, IL
LASER TAG

Designed By: JD

Date: **SEPTEMBER 26, 2024**

Scale: N.T.S.

Drawing Name: _____

A1.1 ATTRACTION LOCATION

istil Architects IL LLC

1: Constanza G. Wybert
817.945.6505

www.pistilconsortia.com



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RAWN BY: Author

CHECKED BY: BA

ROJ. NO: 23-053

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Vendor - Laser Tag
Extraction Location

A1.1



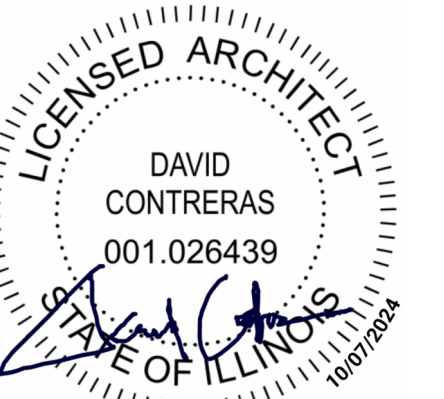
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BY: **Author**
 BY: **BA**
 NO: **23-053**
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Vendor - Laser Tag Block Plan

A1.3

⊕ 0'-0" AFF = CEILING HEIGHT NOTE AND/OR LOWEST KNOWN CEILING
OBSTACLE CLEARANCE

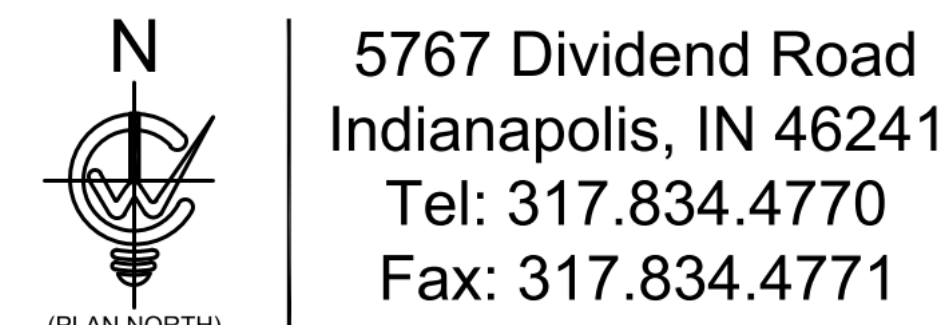
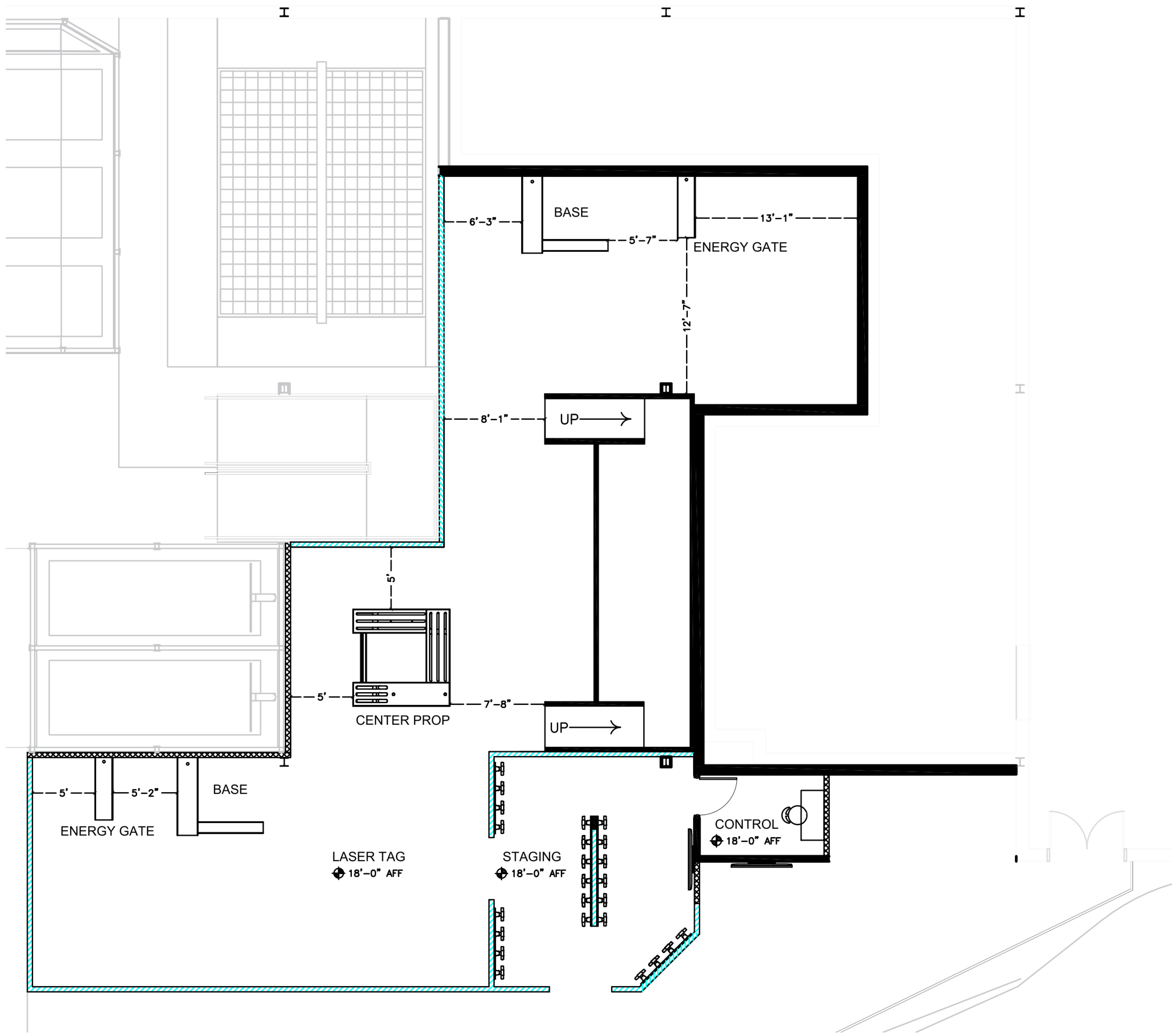
CLIENT RESPONSIBLE FOR COORDINATING ALL NEW BUILD WALLS WITH GENERAL CONTRACTOR; INCLUDING, BUT NOT LIMITED TO, WALL TYPES AND FINISH SPECIFICATIONS OUTSIDE A-000.1 GENERAL NOTES.

 = EXISTING DRYWALL WALL CONSTRUCTION. $\frac{1}{2}$ " SMOOTH ONE SIDED PLYWOOD TO BE INSTALLED UP TO 8'-0" AFF FOR DRYWALL PROTECTION.

 = NEW BUILD DRYWALL WALL CONSTRUCTION. 1/2" SMOOTH ONE SIDED PLYWOOD TO BE INSTALLED UP TO 8'-0" AFF FOR DRYWALL PROTECTION.

 = 48" HIGH WALL; 48" AFF TO 10' AFF TO BE OPEN WITH A FINISHED PAINTED HEADER ABOVE, HEADER TO BEGIN AT 10' AFF AND TO BE CONSTRUCTED UP TO THE CEILING.

1. ARCHITECTURAL ELEMENTS OUTSIDE OF CWI SCOPE OF WORK HAVE BEEN REMOVED.
2. REFERENCE CWI PLAN NORTH ARROW TO IDENTIFY ANY DIRECTIONAL NOTATIONS.
3. REFERENCE MURAL CONCEPT FOR ENTRY WALL BASE COLOR.
4. SEE PAGE D0.3 FOR VESTING RACK DETAILS.
5. SEE PAGE D0.5 FOR LASER TAG CONTROL ROOM DETAILS.
6. CLIENT TO SOURCE AND INSTALL CONTROL DESK.



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General Notes:

Theme:
URBAN AIR 3.0

LL Arena:	1799	ft ²
UL Arena:	263	ft ²
Staging:	288	ft ²
Control:	66	ft ²

CLIENT APPROVAL

CLIENT
SIGNATURE: _____

DATE OF SIGNATURE: _____

No.	Revision	Date

Project Location and Name:

URBAN AIR
ARLINGTON HEIGHTS, IL
LASER TAG

Designed By: JD

Date: **SEPTEMBER 26, 2024**

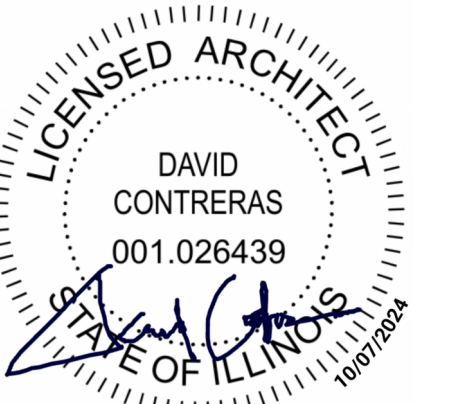
Scale: N.T.S.

Drawing Name:

A1.3 BLOCK PLAN



Construction Management:
Foxfield
245 Humbracht Cir, Bartlett, IL
0103, United States
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piazza@foxfieldtld.com

[illegible]

W N BY: **Author**
 CKED BY: **BA**
 J. NO: **23-053**
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Vendor - Laser Tag Vesting
Rack Rail

D0.3

AF	Above Fixed Floor
ASA	Area of Sports Activity
CWI	Creative Works Inc.
DN	Down
DWG	Drawing
E	Each
IBC	International Building Code
MAX	Maximum
MEP	Mechanical, Electrical, Plumbing
MIN	Minimum
MTD	Mounted
NTS	Not to Scale
SPEC	Specifications
TBD	To Be Determined
TYP	Typical

D0.3

VESTING RACK RAIL

DELTA STRIKE GENESIS



Construction Management:
 Build
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 3, United States
 712-2550
 Contact: Thomas R Piazza II
 za@foxfieldltd.com



RAWN BY: **Author**
 HECKED BY: **BA**
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Vendor - Laser Tag Control Room Details

D0.5

D0.5

CONTROL ROOM DETAILS



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 harlieoraham@gmail.com

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TYP	Typical

Drawing Name: **D0.6**
OPEN WALL ELEVATION

URBAN AIR OPEN CONCEPT – ADDITIONAL NOTES

THESE NOTES REFLECT SPECIFIC INFORMATION RELATED TO THE LASER TAG ATTRACTION BASED ON THE ITEMS PURCHASED BY THE CLIENT FOR THIS LOCATION. THEY MAY NOT CONTAIN ALL RELEVANT LOCAL AND STATE CODE INFORMATION NECESSARY FOR THE SPACE AND SHOULD BE USED AS AN ADDITION TO ANY OTHER PERTINENT INFORMATION DEEMED APPROPRIATE BY THE ARCHITECT OF RECORD TO SATISFY BUILDING REQUIREMENTS.

GENERAL NOTES:

1. AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM, WHICH IS ALSO ALLOWED TO SERVE AS A PUBLIC ADDRESS SYSTEM, SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, AND SHALL BE AUDIBLE THROUGHOUT THE ENTIRE SPECIAL AMUSEMENT BUILDING. (IBC SECTION 411 AND 907.2.12.2-SPECIAL AMUSEMENT BUILDINGS).
2. CLIENT IS RESPONSIBLE FOR ADHERING TO LOCAL CODES. **NOTE:** THE USE OF SHUNTS MAY BE REQUIRED TO SHUT DOWN GAME AND SOUND SYSTEMS IN CASE OF EMERGENCY WITHIN FACILITY.

DOORS:

1. COMMERCIAL KICK PLATES, PUSH PLATES AND CLOSURES ARE NEEDED ON ALL DOORS. ALL DOORS SHOULD BE SOLID CORE FOR DURABILITY.
2. IF DOING OPEN CONCEPT WITH OPENINGS INSTEAD OF DOORS, OPENINGS MUST BE FULLY FRAMED AND/OR HAVE PROTECTIVE COVERING.

AREA OF SPORT ACTIVITY (OPTIONAL AREAS FOR ELEVATED PLAY):

WHEN UTILIZING AN AREA OF SPORT ACTIVITY (ASA), REFERENCE THE 2009 ANSI A117.1 INFORMATION FOR CLARIFICATION. THIS IS THE AMERICAN NATIONAL STANDARDS INSTITUTE INFORMATION THAT CLASSIFIES THIS STRUCTURE AS SUCH

IF APPLICABLE AND BEING CONSTRUCTED BY ANOTHER PARTY OTHER THAN CREATIVE WORKS:

1. THE ASA STRUCTURE MUST BE PAINTED FLAT BLACK; COLUMN SUPPORTS SHOULD BE PAINTED A LIGHTER COLOR (I.E. WHITE OR YELLOW) FOR BETTER VISIBILITY.
2. THE FLOORING AND RAMPS SHOULD BE COVERED IN CARPET (SEE FLOORING SPECS ABOVE).
3. THE UNDERSIDE OF ALL RAMPS MUST BE ENCLOSED TO PREVENT ACCESS UNDERNEATH; SPRINKLER(S) MAY BE REQUIRED WITHIN THIS SPACE.
4. ASA'S ARE TO HAVE A MINIMUM CLEARANCE OF 8'-4" UNDER AND ABOVE. SEE PAGE A-505.1 FOR DETAILS.
5. THE HEIGHT OF THE STRUCTURE AS WELL AS RAILINGS AND HANDRAILS IS IMPORTANT AND SHOULD BE VERIFIED FOR COMPLIANCE WITH LOCAL AND STATE CODE.
6. AFTER INSTALLATION OF THIS STRUCTURE, BOTH POWER AND SPRINKLER REQUIREMENTS WILL BE NECESSARY AND NEED COMPLETED BY THE GENERAL CONTRACTOR PRIOR TO CWI INSTALLATION TEAM ARRIVAL.
7. PROTECTIVE FOAM COLUMN PADS ARE AVAILABLE AND RECOMMENDED FOR BETTER SAFETY. CONTACT CWI PROJECT MANAGEMENT FOR MORE INFORMATION.
8. FINAL DIMENSIONS AND COLUMN PLACEMENT MUST BE PROVIDED TO CWI PROJECT MANAGER NO LATER THAN 60 DAYS BEFORE INSTALLATION DATE.

GENERAL ELECTRICAL:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
2. MAINTENANCE PLUGS ARE NOT SHOWN BUT SHOULD BE ADDED TO EACH OUTSIDE WALL AT 18" AFF IN THE LASER TAG ARENA. ANY OTHER AREAS (I.E. BRIEFING AND/OR VESTING) SHOULD HAVE ONE PLUG CENTRALLY LOCATED FOR MAINTENANCE USE.

LIGHTING FIXTURES:

1. ALL FIXTURE HOUSINGS SHOULD MATCH THE PAINT COLOR OF ITS SURROUNDINGS. (I.E. BLACK WALLS OR CEILINGS = BLACK PAINTED FIXTURES).
2. FIXTURES LOCATED IN ARENA AREA SHALL COMPLY WITH IBC SECTION 907.2.12. "SYSTEM RESPONSE" FOR SPECIAL AMUSEMENT BUILDINGS AND ANY OTHER CODE REQUIREMENTS FOR THIS TYPE OF AREA.
3. CLIENT MAY CHOOSE TO USE EITHER FLUORESCENT LAMPS OR LED BLACK LIGHT FIXTURES.
4. BLACK LIGHT LAMPS ARE REQUIRED TO BE F32T8BLB WITH UL RATING; "BLACK LIGHT BLUE" BULB (DARK PURPLE IN COLOR) ; THE BLACK LIGHT FLUORESCENT FIXTURES SPECIFIED FOR THIS PROJECT SHOULD BE FREE AND CLEAR OF ANY ACRYLIC LENSES OR TUBES COVERING THEM DUE TO THE FILTERING OF THE UV RAYS CAUSED BY THEM. IF CALLED FOR BY CODE, TO PROTECT THE BULBS, AN ALTERNATIVE METHOD MUST BE USED SUCH AS WIRE GUARDS AFFIXED TO THE FIXTURE.
5. LED BLACK LIGHTS WILL REQUIRE CLIENT TO PURCHASE POWER CORDS. REFER TO PAGES A-103.1 AND A-104.1 FOR QUANTITY AND SIZE. EXAMPLE POWER CORD:
[HTTPS://WWW.MONOPRICE.COM/PRODUCT?P_ID=5279](https://www.monoprice.com/product?P_ID=5279)

CONTRACTORS ARE TO CONTACT CREATIVE WORKS FOR FURTHER DETAILS OR CLARIFICATION.



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Abbreviations:

AFF	Above Fixed Floor
ASA	Area of Sports Activity
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MEP	Mechanical, Electrical, Plumbing
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NTS	Not to Scale
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TBD	To Be Determined
TYP	Typical

06	VERSION 6	9.7.2023
05	VERSION 5	11.22.2022
04	VERSION 4	12.15.2021
03	VERSION 3	4.12.2021
02	VERSION 2	3.5.2021
01	VERSION 1	9.23.2020
No.	Revision	Date

Drawing Name:

D0.7

ADDITIONAL NOTES



PISTIL CONSORTIA
BOUTIQUE ARCHITECTURE

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817-945-6505
Contact: Banan Alhusini
banan@pistilconsortia.com

MEP Engineer:

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Denton, TX 76201
817.707.5546
Contact: Benjamin Karten
benjykarten@gmail.com

Structural Engineer:

Burke Structural Engineers
3765 Stockyard Dr., Suite 604
Frisco, TX 75034
949.244.4484
Contact: Thomas Burke, PE
tom@burkese.com

Construction Management:

Foxfield
1245 Humbracht Cir, Bartlett, IL
60103, United States
530-712-2550
Contact: Thomas R Piazza II
rpiazza@foxfieldltd.com

[illegible]

OWN BY: **Author**

CHECKED BY: BA

J. NO: 23-053

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Vendor - Laser Tag
Additional Notes

D0.7



Tenant:
Nino Hermes
Charlie Oraham
177-359-39797
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ninohermes@hotmail.com
charlieoraham@gmail.com

Architect:
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817-945-6505
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MEP Engineer:
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60103, United States
630-712-2550
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tpiazza@foxfieldltd.com

[illegible]

DRAWN BY: **Author**
CHECKED BY: **BA**
PROJ. NO: **23-053**
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Vendor - Laser Tag Electrical
Notes

EO.1

THESE NOTES REFLECT SPECIFIC INFORMATION RELATED TO THE LASER TAG ATTRACTION BASED ON THE ITEMS PURCHASED BY THE CLIENT FOR THIS LOCATION. THEY MAY NOT CONTAIN ALL RELEVANT LOCAL AND STATE CODE INFORMATION NECESSARY FOR THE SPACE AND SHOULD BE USED AS AN ADDITION TO ANY OTHER PERTINENT INFORMATION DEEMED APPROPRIATE BY THE ARCHITECT OF RECORD TO SATISFY BUILDING REQUIREMENTS.

1. ALL DIMENSIONS REFER TO CENTER OF RECEPTACLE.
2. **RECEPTACLES SHALL HAVE 4 OUTLETS UNLESS OTHERWISE INDICATED.**
3. **OUTLETS, COVER PLATES AND SWITCH PLATES MUST BE BLACK.**
4. LOCATION OF LOCAL WALL SWITCHES IS SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGES, VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
5. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT THE SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE.

1. **CONDUIT CAN BE EXPOSED BUT MUST BE PAINTED BLACK.**
2. NO EXPOSED CONDUIT SHOULD RUN BELOW 11' AFF.
3. EMERGENCY LIGHTING AND LIGHTED EXIT SIGNS NEED TO BE PLACED AS REQUIRED BY CODE; HOWEVER, DUE TO THE ARENA PROP PIECES PLACED IN THE SPACE, BUILDING OFFICIALS MAY REQUIRE ADDITIONAL SIGNS OR PHOSPHORESCENT ARROW AND TEXT MARKINGS ALONG FLOOR OR ON PROPS TO HELP SUBSTANTIATE EXITING UPON THEIR FINAL INSPECTION.

1. THE DRAWING SHOWS A CERTAIN NUMBER OF BLACK AND WHITE LIGHT LAMPS. THE NUMBER WILL RESULT IN AN OUTPUT LUMINATION TYPICAL FOR THIS ATTRACTION AND SHOULD BE ADHERED TO EVEN IF ADJUSTMENTS ARE MADE TO PLACEMENT OR ORIENTATION (I.E. ADDITIONAL SPACE OR A NEED TO PLACE LIGHTS PERPENDICULAR).
2. **BLACK LIGHTS MUST BE INSTALLED PER CWI PROVIDED PLANS.PLEASE CONTACT TELSTAR FOR ADDITIONAL INFORMATION.**
3. LED BLACK LIGHTS WILL REQUIRE CEILING MOUNTED OUTLETS. REFER TO E-101.X RCP ELECTRICAL PAGE.
4. LIGHT FIXTURE PLACEMENT IS DEPENDENT ON THE INTERIOR HEIGHT OF EACH ROOM. THE ARENA AREA SHOULD HAVE FIXTURES MOUNTED AT 18' AFF OR TO CEILING IF LOWER FOR OPTIMAL OUTPUT. THE BRIEFING AND VESTING AREA (IF EITHER ARE PRESENT) SHOULD HAVE FIXTURES MOUNTED AT 12' AFF OR TO CEILING IF LOWER FOR OPTIMAL OUTPUT.
5. **ARENA BLACK LIGHTS SHOULD BE ON THEIR OWN CIRCUIT WITH A DEDICATED SWITCH. ARENA WHITE LIGHTS SHOULD BE ON A SEPARATE CIRCUIT WITH A DEDICATED SWITCH**

1. ALL OUTLETS FOR EACH LABEL E1, T1, SHOULD BE ON A DEDICATED SWITCH (20 AMP OR AS REQUIRED BY CODE).
2. ALL E1, T1 CIRCUITS HOME RUN TO THE CORRESPONDING SWITCH LOCATED IN THE CONTROL AREA.
3. V1 OUTLETS ARE TO CHARGE VESTING RACKS. THEY SHOULD BE ON THEIR OWN CIRCUIT AND ALWAYS ON.

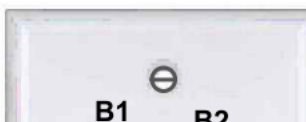
1. ALL ARENA SPEAKER WIRES AND SHIELDED CAT 6 HOME RUNS TO CONTROL AREA.
2. **3 CONDUIT SPEAKER WIRE REQUIRED.**
3. ON EITHER END OF LOW VOLTAGE WIRING (SPEAKER AND CAT 6), PROVIDE AN ADDITIONAL 6' OF SLACK.
4. WHEN OUTLETS AND NETWORK ARE AT THE SAME LOCATION THEY ARE TO BE INSTALLED SIDE BY SIDE.
5. CONTROL AREA HOME RUNS TO CENTRAL BUILDING NETWORK.
6. ALL LOW VOLTAGE RUNS TO BE TERMINATED.

LOCATED IN CONTROL ROOM - EXAMPLE ONLY

EXAMPLE SWITCH BANK

SWITCH BANK			
E1	T1	BLK LIGHT	WHT LIGHT
\$	\$	\$	\$

SITE SPECIFIC CAT6 - LINES MAY VARY



LOW VOLTAGE KEY

B1 - BASE 1
B2 - BASE 2
CP - CENTER PROPEL
SC - SCORE BOARD

06	VERSION 6	9.7.2023
05	VERSION 5	11.22.2022
04	VERSION 4	12.15.2021
03	VERSION 3	4.12.2021
02	VERSION 2	3.5.2021
01	VERSION 1	9.23.2020
No.	Revision	Date

Drawing Name:

E0.1

ELECTRICAL NOTES



Village of Arlington Heights

Interoffice Memorandum

To: Planning and Community Development Dept.
From: Div. Chief Dave Roberts
Department: Fire Department
File Number: PCA00017-2024
Project: 30 W Rand Rd
Review Round: Round 1
Date: December 16th, 2024

GENERAL COMMENTS:

1. **IFC 1018 1104.19 Exit access travel distance.** Exits shall be located so that the maximum length of exit access travel, measured from the most remote point to an approved exit along the natural and unobstructed path of egress travel, does not exceed the distances given in Table 1104.18. *Please provide documentation showing compliance to this requirement.*
2. **IFC 2018 1104.20 Common path of egress travel.** The common path of egress travel shall not exceed the distances given in Table 1104.18. *Please provide documentation showing compliance to this requirement.*
3. Ensure fire protection systems and/or fire alarm systems are operational and tested.
4. Ensure key boxes (Knox box) are fully operational and keys are up to date for Fire Department access.



Village of Arlington Heights
Interoffice Memorandum

To: Michael Lysicatos, Assistant Director of Planning & Community
Ron Weber, AIA, MCP - Director Building & Life Safety

From: Elliot Eldridge, CBO - Assistant Building Official

Department: Building & Life Safety Department

File Number: Commission File Number

Project: SDC Review – Urban Air at Arlington Plaza at 30 W. Rand Rd.

Review Round: Round 2 Review

Date: December 16, 2024

DO EXISTING STRUCTURES, IF ANY, MEET MINIMUM REQUIREMENTS OF THE FOLLOWING?

	YES	NO
1. VILLAGE BUILDING CODE	☐	☐
2. PRESENT ZONING USE	☐	☐
3. REQUESTED ZONING USE	☐	☐
4. SUBDIVISION REQUIRED	☐	☐
5. SIGN CODE	☐	☐

6. GENERAL COMMENTS: The Building & Life Safety Department has reviewed the above referenced Plan Commission application comprised of the project's background info, the propose floor plan, and zoning analysis dated May 31, 2024 for 30 W. Rand Rd. At this time, the BLS has no objections to the proposed Special Use Permit to allow a Large Amusement Facility, Restaurant, and Parking Variation on the subject property. An interior build-out permit will be required for any alteration improvements.

7. Any alteration improvements shall comply with the following adopted codes:

- a. 2018 International Building Code with amendments
- b. 2018 International Fire Code with amendments
- c. 2018 International Fuel Gas Code with amendments
- d. 2018 International Mechanical Code with amendments
- e. 2018 Illinois Accessibility Code
- f. 2021 Illinois Energy Conservation Code with amendments
- g. 2017 National Electrical Code with amendments
- h. 2014 Illinois Plumbing Code

Submittal is missing this information.

8. Restroom shall provide adequate fixtures for the occupant load of the space. Please provide a plumbing occupant load calculation to verify adequate plumbing per the State of Illinois Plumbing Code 2014. The plans do not appear to conform to this requirement.
9. Means of egress sizing shall be based on the occupant load of the entire space. No total occupant load is provided. Provide an analyzation showing the minimum number of required means of egress exits.
10. Information on fire alarm and/or fire suppression systems not provided. If they exist and changes are required, separate permits are required. Submittal is missing this information.
11. If not existing, provide a key box (Knox Box) and it shall contain keys to gain necessary access as required by the fire code official. Code: 2018 IFC 506.1 Submittal is missing this information.
12. If not already provide, a separate fire permit is required for a kitchen (type 1) grease hood, as well as a fire alarm permit and sprinkler permit if applicable. Submittal is missing this information.
13. If not already provide, provide a Grease interceptors and automatic grease removal devices to receive waste only from fixtures and equipment that allow fats, oils or grease to be discharged. Submittal is missing this information.
14. The occupant load may require panic hardware on the doors leading to the exterior of the building. The plans do not appear to conform to this requirement.
15. If table / chairs and lockers are provided, a portion must be accessible. 5% of all tables / lockers or at least 1 must be wheelchair accessible. All accessible tables must be provided at a height between 28 inches and 34 inches measured from the floor to the top of the surface. There should be a clear floor area of 30 inches by 48 inches provided at each accessible seating location. The plans do not appear to conform to this requirement.
16. Provide info on accessible transaction counters. Accessible transaction counters have a maximum height of 36 inches. Service counters must have a clear floor space in front of the accessible surface that permits a customer using a wheelchair to pull alongside. This space is at least 30 inches by 48 inches and may be parallel or perpendicular to the counter. It is also connected to the accessible route which connects to the accessible entrance and other areas in the business where services are provided. Submittal is missing this information.
17. Provide the width of the corridors. Information was not provided.
18. Where drinking fountains are provided, access is required for both people who use wheelchairs and for standing persons. Information was not provided.

19. Provide the location of the mop basin. Information was not provided.
20. An occupancy certificate will be required prior to occupying the space.
21. Note: "A transmittal letter detailing all the changes from the initial review will be required for any additional reviews".
22. Separate permits are required for any of the following alterations:
 - A. Fire Alarm
 - B. Fire Suppression

Supervisor



Village of Arlington Heights
Interoffice Memorandum

To: Planning Staff Liaison
From: Nanci Julius, P.E., Senior Civil Engineer
Department: Public Works & Engineering Department
File Number: PCA00017-2024
Project: 30 W Rand Rd, Urban Air
Review Round: 1
Date: December 20, 2024

DO EXISTING STRUCTURES, IF ANY, MEET MINIMUM REQUIREMENTS OF THE FOLLOWING?

1. PUBLIC IMPROVEMENTS REQUIRED:

	YES	NO	COMMENTS
a. Underground Utilities			
i. Water.....	☐	☒	_____
ii. Sanitary Sewer	☐	☒	_____
iii. Storm Sewer.....	☐	☒	_____
b. Surface Improvement			
i. Pavement	☐	☒	_____
ii. Curb& Gutter.....	☐	☒	_____
iii. Sidewalks.....	☐	☒	_____
iv. Street Lighting.....	☐	☒	_____
c. Easements			
i. Utility & Drainage....	☐	☒	_____
ii. Access.....	☐	☒	_____

2. PERMITS REQUIRED OTHER THAN VILLAGE

a. MWRDGC.....	☐	d. IEPA.....	☐
b. IDOT.....	☐	e. CCHD.....	☐
c. ARMY CORP...	☐	f. OTHER.....	☐ _____

3. R.O.W. DEDICATIONS.....	YES ☐	NO ☒	_____
4. SITE PLAN ACCEPTABLE.....	YES ☐	NO ☐	N/A _____
5. PRELIMINARY PLATE ACCEPTABLE.....	YES ☐	NO ☐	N/A _____
6. TRAFFIC STUDY ACCEPTABLE.....	YES ☒	NO ☐	_____
7. STORMWATER DETENTION REQUIRED.....	YES ☐	NO ☒	_____
8. CONTRIBUTION ORDINANCE EXISTING.....	YES ☐	NO ☒	_____
9. FLOOD PLAIN OR FLOODWAY EXISTING...	YES ☐	NO ☒	_____
10. WETLAND EXISTING.....	YES ☐	NO ☒	_____

ADDITIONAL COMMENTS ARE ATTACHED.

PLAN COMMISSION PCA00017-2024
Urban Air
30 W Rand Rd
Round 1

11. The petitioner is notified that these comments are being provided to ensure that the project meets the requirements for submittal to the Plan Commission. Approval by the Plan Commission is not an endorsement or approval of these documents to obtain the required building permits, engineering approval, or permits required by other government or permitting agencies for construction. Detailed plan review with associated comments will be provided upon submittal of plans for a building permit. The petitioner shall acknowledge that they accept this understanding.
12. The Public Works & Engineering Department have no further comments.

Nanci Julius

Michael L. Pagones, P.E.
Village Engineer

12/20/2024
Date

Village of Arlington Heights

Interoffice Memorandum



To:

From: Dan Osoba

Department: Planning & Community Development

File Number: PC24-017

Project: Urban Air at Arlington Plaza

Review Round: Round 1

Date: December 20, 2024

	<u>YES</u>	<u>NO</u>
1. COMPLIES WITH COMPREHENSIVE PLAN:	☐	☒
2. COMPLIES WITH THOROUGHFARE PLAN:	☒	☐
3. VARIATIONS NEEDED FROM ZONING REGULATIONS:	☒	☐
4. VARIATIONS NEEDED FROM SUBDIVISION REGULATIONS:	☐	☒
5. SUBDIVISION REQUIRED:	☐	☒
6. SCHOOL/PARK DISTRICT CONTRIBUTION REQUIRED:	☐	☒

Zoning:

7. The following zoning approvals have been requested based on a review of the plans. Please acknowledge these in your response to comments letter:
- Special Use Permit to allow an Amusement Facility, Large on the subject property.
 - Special Use Permit to allow a Restaurant on the subject property.
 - Additional zoning actions may be identified based on a response to these comments.
8. Specifically list the variation being requested in your Justification Letter. Respond to the four criteria for approval for variations, not the proposed land use. The Justification Letter responds to how Urban Air is consistent with the variation criteria, which is not applicable in this application. Revise the Justification Letter to identify and justify the variation request specifically. The variation identified by staff based on this review are as follows:
- Variation to Chapter 28, Section 10.4-4 to reduce the parking requirement. Parking requirement to be verified with an updated tenant list. The petitioner

shall provide information to staff to verify parking requirements (see the Parking section below).

General:

9. Per the Petitioner's Checklist, please provide a list of property owners within 250-feet of the property lines of this development, which excludes the rights-of-way. Staff will provide a list of PINs received from the township to you so the list can be verified by the petitioner.
10. Update the Project Narrative to ensure the details provided match the other plans submitted with this petition. The Narrative indicates the space is 30,000 square-feet and is not consistent with other details. For clarity, please review all documents for consistency.
11. A Plan Commission application fee will be invoiced after this review is sent and must be paid prior to acceptance of the second review.
12. Your response to these comments must be uploaded to the CSS portal, along with all the revised plans. Once the entire resubmittal has been uploaded, please email Dan Osoba at dosoba@vah.com to notify that a resubmittal has been uploaded.

Business Operations/Floor Plan:

13. Provide dimensions for seating areas for the purpose of calculating parking requirements for the "Restaurant" portion of your application. The fixed seating table areas need to be dimensioned along with the back of house kitchen area. The leftover square-footage will be used to calculate the amusement facility. Please also provide dimensions for specified play areas and party rooms.
14. Provide more detailed information in the Narrative document on the types of play areas highlighted in the floor plan. For example, what does the area called out as "APEX" include. More detailed information on the types of amusement devices proposed is needed and would be helpful background for the Plan Commission and Village Board.
15. Provide information on any noise generating devices or play areas that may produce noise. Staff has concerns on the noise generated from go-karts within an enclosed space in a shopping center. The B-2 District requires that all uses, operations or products shall not be objectionable due to odor, dust, smoke, noise, vibrations or similar causes. This response should be added to the Project Narrative document.

Market Study

16. In order to fully validate possible options for the 26,000 square-foot space, staff is requesting additional analysis on potential land uses. Please provide a response in the market study to the following questions:
 - a. Would a recreational type use, such as the ones listed in the market study, be acceptable to the shopping center owner and/or tenants already in the

- center? Given the other “health club” type uses or gyms that occupy space within Arlington Plaza.
- b. Is there a possibility of further splitting that space into smaller tenant spaces? If so, would there be the possibility of other personal service uses such as beauty salons or commercial uses such as restaurants? Verify this could be acceptable with the property owner and provide a response in the market study.
 - c. Would there be any restrictions on types of uses allowed from the shopping center (separate from zoning requirements)? If so, please provide a list of prohibited uses for review.

Building & Design

17. A separate building permit will be required for any associated signage.

18. Please indicate if any exterior alterations outside of signage are proposed with this application.

Parking & Traffic

19. The required parking for this proposal is shown below. Provide an updated tenant list (including the proposed Qargo Coffee at 4 W. Rand Road) with your next submission so staff can verify the required parking and possible parking deficit. Based on preliminary analysis using data from July 2024, it appears the shopping center may be slightly in deficit. Note that these square-footages are estimates based on the scaled drawings provided; please confirm the square-footages are accurate.

Tenant	Address	Use	Square Footage/Eating Area	Parking Ratio	Parking Required
Urban Air	30 W Rand Rd	Recreational Facility	16,253	30% of Occupancy	98
		Amusement Device Arcade	18,016	1 space per 300 sq. ft.	60
		Restaurant	7,820	1 space per 45 sq ft. of eating area	174
TBD	New Tenant Space	Vacant	26,435	1 space per 300 sq. ft.	88
PARKING REQUIRED					419
PARKING PROVIDED					
SURPLUS / (DEFICIT)					

Village of Arlington Heights
Interoffice Memorandum



To: Dan Osoba, Planner
From: Derek Mach, Landscape Planner
Department: Planning & Community Development Department
File Number: PC 24-017
Project: 30 W. Rand Road
Review Round: Round 1 Review
Date: December 18, 2024

	<u>YES</u>	<u>NO</u>
1. COMPLIES WITH TREE PRESERVATION ORDINANCE:	N/A	☐
2. COMPLIES WITH LANDSCAPE PLAN ORDINANCE:	☒	☐
3. PARKWAY TREE FEE REQUIRED:	☐	☒

Landscape Comments

1) No Comments

Village of Arlington Heights

Interoffice Memorandum



To:

From: Dan Osoba

Department: Planning & Community Development

File Number: PC24-017

Project: Urban Air at Arlington Plaza

Review Round: Round 2

Date: January 15, 2025

	<u>YES</u>	<u>NO</u>
1. COMPLIES WITH COMPREHENSIVE PLAN:	☒	☐
2. COMPLIES WITH THOROUGHFARE PLAN:	☒	☐
3. VARIATIONS NEEDED FROM ZONING REGULATIONS:	☒	☐
4. VARIATIONS NEEDED FROM SUBDIVISION REGULATIONS:	☐	☒
5. SUBDIVISION REQUIRED:	☐	☒
6. SCHOOL/PARK DISTRICT CONTRIBUTION REQUIRED:	☐	☒

Zoning:

7. The following zoning approvals have been requested based on a review of the plans. Please acknowledge these in your response to comments letter:
- Special Use Permit to allow an Amusement Facility, Large on the subject property.
 - Special Use Permit to allow a Restaurant on the subject property.
 - Additional zoning actions may be identified based on a response to these comments.
 - The petitioner has acknowledged these requests. **Complete**
8. Specifically list the variation being requested in your Justification Letter. Respond to the four criteria for approval for variations, not the proposed land use. The Justification Letter responds to how Urban Air is consistent with the variation criteria, which is not applicable in this application. Revise the Justification Letter to identify and justify the variation request specifically. The variation identified by staff based on this review are as follows:
- Variation to Chapter 28, Section 10.4-4 to reduce the parking requirement. Parking requirement to be verified with an updated tenant list. The petitioner

PLAN COMMISSION REVIEW
PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT

shall provide information to staff to verify parking requirements (see the Parking section below).

- i. The petitioner has provided an updated justification to the criteria for approval. **Complete**

General:

9. Per the Petitioner's Checklist, please provide a list of property owners within 250-feet of the property lines of this development, which excludes the rights-of-way. Staff will provide a list of PINs received from the township to you so the list can be verified by the petitioner.
 - a. The petitioner did not provide a list of property owners with this submittal. Staff worked with the petitioner to obtain the list and ensure all notification requirements were met. **Complete with resolved issues**
10. Update the Project Narrative to ensure the details provided match the other plans submitted with this petition. The Narrative indicates the space is 30,000 square-feet and is not consistent with other details. For clarity, please review all documents for consistency.
 - a. The petitioner did not update the narrative details for consistency. Staff acknowledges this and referred to data in the preliminary construction plans. It should be noted that the project narrative square-footages are incorrect. **Complete with resolved issues**
11. A Plan Commission application fee will be invoiced after this review is sent and must be paid prior to acceptance of the second review.
 - a. The petitioner has paid the fee in full. **Complete**
12. Your response to these comments must be uploaded to the CSS portal, along with all the revised plans. Once the entire resubmittal has been uploaded, please email Dan Osoba at dosoba@vah.com to notify that a resubmittal has been uploaded.
 - a. The petitioner included a response to the Building & Life Safety and Fire Departments comments. No other responses were included in the submittal. Planning Staff reviewed plans submitted with this submittal to determine if comments have been resolved. **Complete with resolved issues**

Business Operations/Floor Plan:

13. Provide dimensions for seating areas for the purpose of calculating parking requirements for the "Restaurant" portion of your application. The fixed seating table areas need to be dimensioned along with the back of house kitchen area. The leftover square-footage will be used to calculate the amusement facility. Please also provide dimensions for specified play areas and party rooms.
 - a. The petitioner provided a dimensioned plan with square-footages for each area and occupancy. **Complete**
14. Provide more detailed information in the Narrative document on the types of play areas highlighted in the floor plan. For example, what does the area called out as "APEX" include. More detailed information on the types of amusement devices

proposed is needed and would be helpful background for the Plan Commission and Village Board.

- a. The petitioner did not provide a response or provide clarity on this item. Staff researched other Urban Air facilities to determine the actual usage of spaces called out in the preliminary construction plans. **Complete with resolved issues**

15. Provide information on any noise generating devices or play areas that may produce noise. Staff has concerns on the noise generated from go-karts within an enclosed space in a shopping center. The B-2 District requires that all uses, operations or products shall not be objectionable due to odor, dust, smoke, noise, vibrations or similar causes. This response should be added to the Project Narrative document.

- a. The petitioner did not provide a response to this comment. **Complete with a recommended condition of approval to require sound proofing if noise complaints occur**

Market Study

16. In order to fully validate possible options for the 26,000 square-foot space, staff is requesting additional analysis on potential land uses. Please provide a response in the market study to the following questions:

- a. Would a recreational type use, such as the ones listed in the market study, be acceptable to the shopping center owner and/or tenants already in the center? Given the other "health club" type uses or gyms that occupy space within Arlington Plaza.
 - i. The petitioner provided alternative uses for the remainder tenant space in the market study that demonstrate its viability. **Complete**
- b. Is there a possibility of further splitting that space into smaller tenant spaces? If so, would there be the possibility of other personal service uses such as beauty salons or commercial uses such as restaurants? Verify this could be acceptable with the property owner and provide a response in the market study.
 - i. The petitioner provided alternative uses for the remainder tenant space in the market study that demonstrate its viability. **Complete**
- c. Would there be any restrictions on types of uses allowed from the shopping center (separate from zoning requirements)? If so, please provide a list of prohibited uses for review.
 - i. The petitioner did not provide information on use restrictions in the shopping center. Staff reviewed documentation on file with the Village to determine if there were usage restrictions that may limit what could go into the vacant tenant space. **Complete with resolved issues**

Building & Design

17. A separate building permit will be required for any associated signage.

- a. The petitioner acknowledged that a separate building permit would be required for signage. **Complete**

PLAN COMMISSION REVIEW
PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT

18. Please indicate if any exterior alterations outside of signage are proposed with this application.

- a. The petitioner acknowledged that no exterior alterations are proposed with this application. **Complete**

Parking & Traffic

19. The required parking for this proposal is shown below. Provide an updated tenant list (including the proposed Qargo Coffee at 4 W. Rand Road) with your next submission so staff can verify the required parking and possible parking deficit. Based on preliminary analysis using data from July 2024, it appears the shopping center may be slightly in deficit. Note that these square-footages are estimates based on the scaled drawings provided; please confirm the square-footages are accurate.

- a. The petitioner provided updated occupancy information to allow staff to determine parking requirements. The parking requirements are listed below.
Complete

Unit	Use	Square Area	Parking Square Footage	Divider	Parking Required
1	L Electronics	900	900	300	3
2	Shiny Nail	900	900	250	4
3	Barks in Style Pet Grooming	1,200	1,200	300	4
4	Lions Tae Kwon Do	3,000	1,500	50	30
5	Foot Nirvana	3,000	3,000	250	12
6	Sandra Rossi Beauty School	9,800	9,800	1/emp; 0.5/student	58
7	Community Threads	22,100	22,100	300	74
8	China Buffet	6,750	3,240	45	72
9,10	Treasure Hunt Deals	17,875	17,875	300	60
11A	Planet Fitness	22,002	22,002	250	88
11B	Five Star Furniture and Outlet	45,300	45,300	600	76
11C	Proposed Urban Air*	66,992	66,992	30% occupancy of Recreational Facility; 1 space per 45 of restaurant; 1 space per 300 s.f. of amusement device arcade	332
11D	VACANT	26,435	26,435	300	88
12 --21	Harlem Furniture	27,700	27,700	600	46
22	America's Best Vision Center	4,000	4,000	300	13

PLAN COMMISSION REVIEW
PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT

23	Harvest Fresh Grocery & Café	23,472	23,472	300	78
24	North Arlington Barber Shop	900	900	250	4
25	Fifth Ave. Sushi	2,100	902	45	20
	Village Bank and Trust	7,896	7,896	300	26
28	VACANT	4,000	4,000	300	13
29	Big Chicken	2,614	1,287	45	29
30	Available (Pad)		0	45	0
31	Proposed Qargo Coffee**	5,000	5,000	300	17
	TOTAL	303,936			1,146
	Parking Provided				1,139
	Parking Surplus/(Deficit)				(7)
Arlington Plaza					
<i>*Urban Air is evaluated with an overall occupancy of 298 (838 total occupancy - 556 occupancy of seating areas - 16 occupancy of amusement device arcade)</i> <i>Restaurant is 1 per 45 s.f., Amusement Device Arcade is 1 per 300 s.f.</i>					
<i>**To be evaluated under a separate Plan Commission application; parking rate is vacant (1 space per 300 s.f.) for the purposes of Urban Air</i>					

23-053 - UA Chicago (Arlington Heights) IL

Jan 2, 2025 Revision Letter

Project Address 30 W Rand Rd, Arlington Heights, IL 60004

Project Owner Nino Hermes & Charlie Oraham

Project Number #23-053

Project Name Urban Air Arlington Heights

Permit Number

A. This addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Addendum shall govern and take precedence.

B. Bidders are hereby notified that they shall make any necessary adjustments in their estimate as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

SUP Comments

1. **IFC 1018 1104.19 Exit access travel distance.** Exits shall be located so that the maximum length of exit access travel, measured from the most remote point to an approved exit along the natural and unobstructed path of egress travel, does not exceed the distances given in Table 1104.18. Please provide documentation showing compliance to this requirement.

Answer:Refer to sheet A003.

2. **IFC 2018 1104.20 Common path of egress travel.** The common path of egress travel shall not exceed the distances given in Table 1104.18. Please provide documentation showing compliance to this requirement.

Answer:Refer to sheet A003.

3. Ensure fire protection systems and/or fire alarm systems are operational and tested.

Answer: Understood.

4.Ensure key boxes (Knox box) are fully operational and keys are up to date for Fire Department access.

Answer:Refer to Sheet A003.

DO EXISTING STRUCTURES, IF ANY, MEET MINIMUM REQUIREMENTS OF THE FOLLOWING?

	YES	NO
1. VILLAGE BUILDING CODE	☒	☐
2. PRESENT ZONING USE	☒	☐
3. REQUESTED ZONING USE	☒	☐
4. SUBDIVISION REQUIRED	☒	☐
5. SIGN CODE	☒	☐

6. GENERAL COMMENTS: The Building & Life Safety Department has reviewed the above referenced Plan Commission application comprised of the project's background info, the propose floor plan, and zoning analysis dated May 31, 2024 for 30 W. Rand Rd. At this time, the BLS has no objections to the proposed Special Use Permit to allow a Large Amusement Facility, Restaurant, and Parking Variation on the subject property. An interior build-out permit will be required for any alteration improvements.

Answer:

7. Any alteration improvements shall comply with the following adopted codes:

- a. 2018 International Building Code with amendments
- b. 2018 International Fire Code with amendments
- c. 2018 International Fuel Gas Code with amendments
- d. 2018 International Mechanical Code with amendments
- e. 2018 Illinois Accessibility Code
- f. 2021 Illinois Energy Conservation Code with amendments
- g. 2017 National Electrical Code with amendments
- h. 2014 Illinois Plumbing Code

Submittal is missing this information.

Answer:Refer to sheet A000.

8. Restroom shall provide adequate fixtures for the occupant load of the space. Please provide a plumbing occupant load calculation to verify adequate plumbing per the State of Illinois Plumbing Code 2014. The plans do not appear to conform to this requirement.

Answer: Refer to sheet A000.

9. Means of egress sizing shall be based on the occupant load of the entire space. No total occupant load is provided. Provide an analysis showing the minimum number of required means of egress exits.

Answer: Refer to sheet A003.

10. Information on fire alarm and/or fire suppression systems not provided. If they exist and changes are required, separate permits are required. Submittal is missing this information.

Answer: Understood.

11. If not existing, provide a key box (Knox Box) and it shall contain keys to gain necessary access as required by the fire code official. Code: 2018 IFC 506.1 Submittal is missing this information.

Answer: Refer to Sheet A003.

12. If not already provide, a separate fire permit is required for a kitchen (type 1) grease hood, as well as a fire alarm permit and sprinkler permit if applicable. Submittal is missing this information.

Answer: Understood.

13. If not already provide, provide a Grease interceptors and automatic grease removal devices to receive waste only from fixtures and equipment that allow fats, oils or grease to be discharged. Submittal is missing this information.

Answer: Refer to sheet P2.1

14. The occupant load may require panic hardware on the doors leading to the exterior of the building. The plans do not appear to conform to this requirement.

Answer: Refer to sheet A501.

15. If table / chairs and lockers are provided, a portion must be accessible. 5% of all tables / lockers or at least 1 must be wheelchair accessible. All accessible tables must be provided at a height between 28 inches and 34 inches measured from the floor to the top of the surface. There should be a clear floor area of 30 inches by 48 inches provided at each accessible seating location. The plans do not appear to conform to this

requirement.

Answer: Refer to sheet A601, A603,A604, A605 for Millwork and FFE details.

16. Provide info on accessible transaction counters. Accessible transaction counters have a maximum height of 36 inches. Service counters must have a clear floor space in front of the accessible surface that permits a customer using a wheelchair to pull alongside. This space is at least 30 inches by 48 inches and may be parallel or perpendicular to the counter. It is also connected to the accessible route which connects to the accessible entrance and other areas in the business where services are provided. Submittal is missing this information.

Answer:Refer to sheet A601, A603,A604, A605 for Millwork and FFE details.

17. Provide the width of the corridors. Information was not provided.

Answer:Refer to sheet A003.

18. Where drinking fountains are provided, access is required for both people who use wheelchairs and for standing persons. Information was not provided.

Answer:Refer to sheet A104/11.

19. Provide the location of the mop basin. Information was not provided.

Answer: Refer to sheet A101.

20. An occupancy certificate will be required prior to occupying the space.

Answer: Understood, this will be applied for prior to opening the park

Answer: Understood. A building permit, Fire permit and occupancy will be applied for obtained prior to occupying the space.

21. Note: "A transmittal letter detailing all the changes from the initial review will be required for any additional reviews".

Answer: Understood.

22. Separate permits are required for any of the following alterations:

A. Fire Alarm

B. Fire Suppression

Answer: Understood.

7. Provide dimensions for seating areas for the purpose of calculating parking requirements for the “Restaurant” portion of your application. The fixed seating table areas need to be dimensioned along with the back of house kitchen area. The leftover square-footage will be used to calculate the amusement facility. Please also provide dimensions for specified play areas and party rooms.

Answer: Refer to Sheet A001.

End of SUP Comments.

