**VICINITY MAP** 

# MAP TO LOADING DOCK



# STACKED PICKLE

# INDIANAPOLIS INTERNATIONAL AIRPORT

7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

90% SUBMITTAL



# SILHOUETTE DESIGN ARCHITECTURE

566 W. Adams Suite #650 Chicago, Illinois 60661 312.258.0025

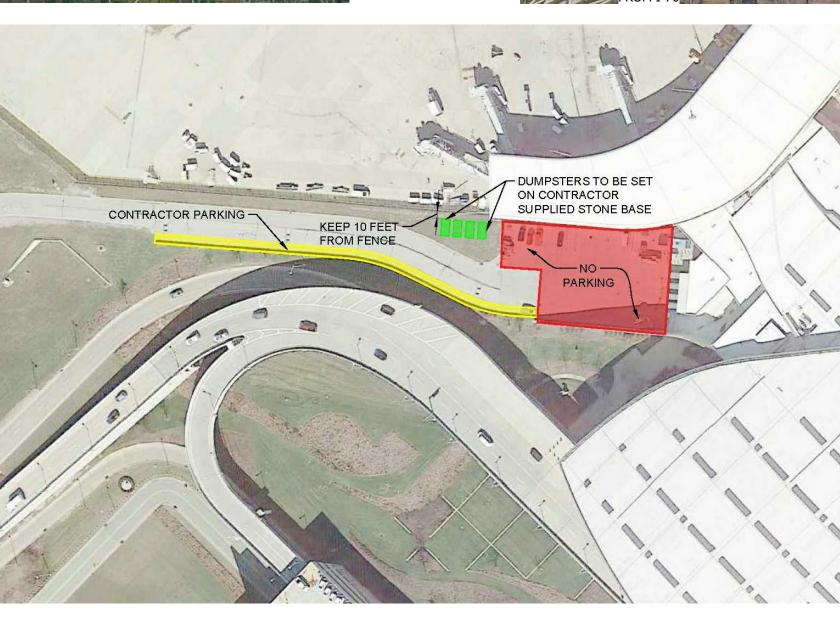
www.silhouettedesignarchitecture.com



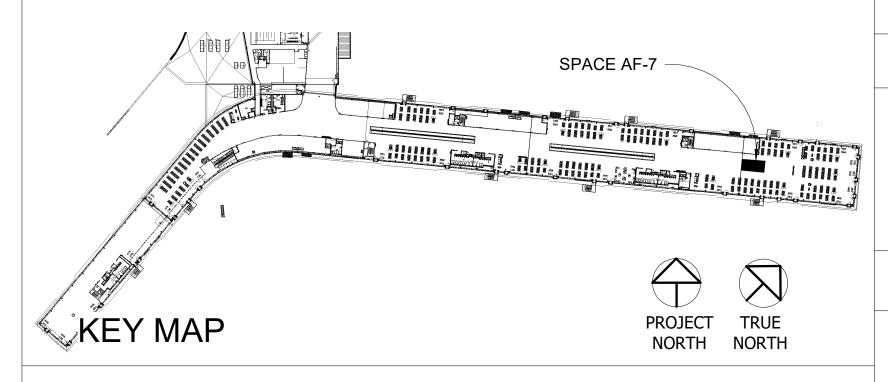
OHM Concessions Group, LLC 4482 Woodson Road, Woodson Terrace MO, 63134

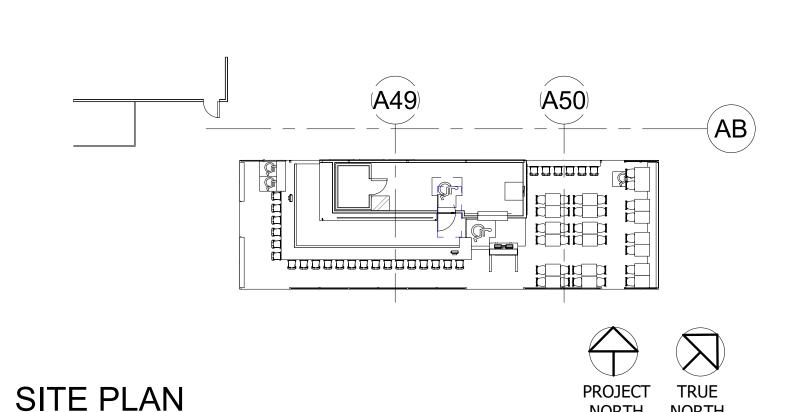


BTR Engineering 104 N. Oak Park Ave, Ste 201 Oak Park, IL, 60301



# **CONTRACTOR PARKING**





NORTH

NORTH

# OCCUPANT LOAD CALCULATIONS Bar Seating

ACTUAL PROJECT AREA: 1,468 SQ. FT.

21 + 2 ADA Counter Seating Banquette Seating Drink Rail (Standing)

PROJECT DATA

21 (Actual 24) BOH 256 sf / 200

Total = 82 persons

Egress – 2 Exit Required. Provided exits = 5 of 2 required. Egress width = 36" minimum, Openings > or = 36" 36" Aisles Provided Egress capacity = .2" per occupant = 180 occupants per

**OCCUPANCY GROUP:** A2 - Assembly **CONSTRUCTION TYPE:** 1A - Fully Sprinkled

36" door > 85 person occupancy load.

# SCOPE OF WORK

THE WORK COMPRISES OF TENANT INTERIOR ALTERATIONS OF TWO EXISTING KIOSKS, NEW PARTITIONS & FINISHES, NEW EQUIPMENT LOCATED WITHIN AIRPORT. INCLUDES PLUMBING,

#### approved by Indianapolis International Airport prior to execution. Tenant shall ensure that all slab penetrations within Tenant space are properly sealed and watertight to prevent possible water leakage and/or damage.

building or work permit is issued.

Engineering and Maintenance Dept.

Submit record drawings to Indianapolis International Airport within 30 calendar days of tenant's notice of Substantial completion. Record drawings shall be in electronic format: one (1) set of CAD and PDF drawings. One (1) set of reproducible specifications.

NOTES

All installations, material, and equipment shall comply with

the most current Indianapolis International Airport Design

Manual and Tenand Improvement Manual at the time the

Utilities outages require 72 hours advance notice to the

All slab penetrations and core drilling required Ground

Penetration Radar (GPR) tests by a licensed technician and

All loose debris/trash must be removed from the site daily. No loose debris/trash shall be left on roof, spaces open to the airport operations area, conveyance or open trash

receptacle at any time. Unused/abandoned floor/wall openings shall be sealed or

Interior finishes classification indicated as per IBC 2012. GC to patch and repair any damage to base building walls caused during construction at GC's expense. GC shall not jeopardize the integrity of the base building construction. GC shall repair and/or replace base building fire proofing that has been removed or damaged during construction to

the required thickness at GC's expense. GC must identify and address all existing fire and life safety apparatus at or within proximity to storefront including during barricade construction.

# **ACCESSIBILITY NOTES**

- 1. THE PROJECT HAS BEEN DESIGNED TO CONFORM WITH THE ACCESSIBILITY REQUIREMENTS OF THE STATE OF INDIANA AND THE AMERICANS WITH DISABILITIES ACT.
- 2. MINIMUM DOOR WIDTH OF ACCESSIBLE DOORS MUST BE 36"
- 3. CLEARANCE ON THE PULL SIDE OF THE DOORS MUST BE A MINIMUM OF 18".
- 4. WHERE CONTROLS AND OPERATING MECHANISMS ARE PROVIDED IN ACCESSIBLE SPACES, ALONG ACCESSIBLE ROUTES OR AS PARTS OF ACCESSIBLE ELEMENTS, OPERABLE PARTS AND CONTROLS SHALL COMPLY WITH THE REQUIREMENTS OF ADA SECTION 4.27 OPERABLE PARTS SHALL BE NO MORE THAN 48" HIGH OR LESS THAN 18" ABOVE THE FLOOR.
- 5. WHERE ALARMS ARE PROVIDED THEY SHALL COMPLY WITH THE REQUIREMENTS OF ADA SECTION 4.27.
- REQUIREMENTS OF THE SECTION A4.30.

# PROJECT DIRECTORY SHEET INDEX

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4482 Woodson Road,
Woodson Terrace MO, 63134
Roger Patel
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#### AIRPORT TENANT COORDINATOR Indianapolis Airport Authority David Shaw T: (317) 487-5010 dshaw@ind.com

Mandy Royston T: (317) 487-5281 mroyston@ind.com

**OWNER:** 

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scostello@silhouetteinc.com

**MEP CONSULTANT** BTR Engineering Erika Bolger

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Yun Associates, LLC Bill Yun 1775 K St, NW Suite 220 Washington, DC, 20006 T. (202) 849-3075

STRUCTURAL CONSULTANT

KEC CONSULTANT C&T Design and Equipment Co. Chris Monico, CFSP 2750 Tobey Dr. Indianapolis, IN, 46219 T. (317) 644-7833

byun@yunassociates.com

Sheet Name

**Sheet Number** TITLE SHEET **GENERAL NOTES & SPECIFICATIONS GENERAL NOTES & SPECIFICATIONS** DEMOLITION FLOOR PLAN **DEMOLITION REFLECTED CEILING** 

DIVISION OF WORK SCHEDULE CONSTRUCTION PLAN, SCHEDULE & DETAILS

REFLECTED CEILING PLAN FIXTURE PLAN & SCHEDULES MILLWORK DETAILS FINISH PLAN & SCHEDULES

**EMERGENCY EGRESS PLAN** SIGNAGE & GRAPHICS **ELEVATIONS ELEVATIONS** 

**ELEVATIONS ELEVATIONS DETAILS DETAILS** 

GENERAL NOTES, FRAMING PLANS AND SECTION SECTIONS AND DETAILS **EQUIPMENT PLAN** ELECTRICAL ROUGH-IN PLAN

K3 PLUMBING ROUGH-IN PLAN SPECIAL CONDITIONS PLAN MECHANICAL PLAN PLUMBING SYMBOLS & NOTES PLUMBING SPECS PLUMBING & KITCHEN SCHEDULES PLUMBING SCHEDULES PLUMBING DETAILS

PLUMBING LOWER LEVEL FLOOR PLUMBING FLOOR PLAN PLUMBING ISOMETRIC RISERS PLUMBING ISOMETRIC RISERS

**VENT & WASTE** PLUMBING UNDERGROUND DEMOLITION PLAN PLUMBING ABOVE GROUND **DEMOLITION PLAN** M. (317) 201-2477

**ELECTRICAL SYMBOLS & NOTES ELECTRICAL SPECS ELECTRICAL DETAILS & SCHEDULES ELECTRICAL LIGHTING PLAN ELECTRICAL POWER & SIGNAL PLAN** FIRE PROTECTION SYMBOLS & FIRE PROTECTION PLAN

ARCHITECT: Scott Costello Silhouette Design Architecture, Inc. 566 West Adams, Suite 650 Chicago, IL 60661 T (312) 258-0025 F (312) 276-4829 scostello@silhouetteinc.com

DESIGNER: Tara Carmichael Silhouette Design Architecture, Inc. 566 West Adams, Suite 650 Chicago, IL 60661 T (312) 258-0025 F (312) 276-4829 tcarmichael@silhouetteinc.com

MEP CONSULANT: BTR Engineering Erika Bolger 104 N. Oak Park Ave, Ste 201 Oak Park, IL, 60301 T. (312) 635-6334 M. (847) 373-8423 ebolger@btrengineers.com

STRUCTURAL CONSULTANT: Yun Associates, LLC 1775 K St, NW Suite 220 Washington, DC, 20006 T. (202) 849-3075 byun@yunassociates.com

# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

200/ CLIDMITTAL	00/07/0040
30% SUBMITTAL	06/07/2019
90% SUBMITTAL	08/08/2019

# TITLE SHEET

Project number	2019-033
Date	08-07-19
Drawn by	LV
Checked by	90

A0.0

Scale 1/16" = 1'-0"

# APPLICABLE CODES

Indiana Building Code, 2014 Edition (IBC, 2012 Edition, 1st printing) ANSI A117.1-2009 Indiana Fire Code, 2014 Edition (IFC 2012 Edition, 1st printing)

Indiana Mechanical Code, 2014 Edition (IMC, 2012 Edition, 1st printing) Indiana Plumbing Code, 2012 Edition (IPC, 2006 Edition) Indiana Electrical Code 2009 Edition (NFPA 70-2008) Indiana Energy Conservation Code 2010 (ASHRAE 90.1, 2007 edition, as amended) Additionally, the following NFPA codes and standards have been adopted by the State of Indiana, and they will apply based on the Authority having jurisdiction.

Some of these standards are: NFPA 10 - Portable Fire Extinguishers NFPA 13 - Installation of Sprinkler Systems

NFPA 14 - Installation of Standpipes NFPA 20 - Installation of Centrifugal Fire Pumps

NFPA 25 - Inspection, Testing and Maintenance of Water Based Fire Protection

NFPA 72 - National Fire Alarm Code Lastly, compliance with the Americans with Disability Act (ADA) is paramount. Indiana also has its own accessibility code that would apply to the building: Indiana Accessibility Code - Chapter 11

Reference LEED per USGBC (US Green Building Council) www.usgbc.org

6. ACCESSIBLE SIGNAGE SHALL COMPLY WITH THE

#### **SPECIFICATIONS**

#### **SECTION 01000 - GENERAL REQUIREMENTS**

1. The Contractor shall obtain and pay for the Building Permit for the work. All work, including the material, stresses and methods of construction shall conform to Local and State

2. All work to be performed by Contractors licensed to work within the local Jurisdiction.

3. Project Meetings: Contractor and related subcontractors shall be required to attend project meetings at the project site when required by the Owner or Architect. 4. Submittals: Required shop drawings to tenant and architect, product data and samples shall be submitted to the Architect for approval. Any moneys spent or work performed

without prior approval is done at the Contractors own risk. A.Submit shop drawings to architect in PDF format.

B. Submit (3) three samples of the full range of required samples.

C.Submit (3) three copies of project data.

D. Shop Drawings, Samples and Product Data shall be required for the following items:

1. All Finishes 2. All Millwork including Wood Doors, Shelving and Cabinetry

3. All Lighting

4. All Appliances and equipment

5. All Hardware

Unless agreed to otherwise, all submittals shall be submitted no later than two weeks after construction starts. G.C. to submit schedule of submissions at start of construction. 5. Examination of the Site. The Contractor shall examine the premises and become thoroughly familiar with all existing conditions, and all the conditions which may arise that would affect his contract. Failure to do so will not relieve the Contractor of his responsibility to complete his work at no additional cost to the Owner. Contractor shall notify the

Architect immediately in writing if he discovers any discrepancies between the drawings and existing conditions. 6. Existing Conditions: Before submitting his proposal, each bidder shall examine all drawings related to his, to the character of the Work required and its relations to other work in the building. No consideration will be granted for alleged misunderstanding of material to be furnished or work to be done, it being understood that the tender of a proposal carries with it the agreement to all items and conditions referred to herein. Special attention shall be made of the type and extent of removals, relocations, overtime needed for

interruption of building services for disconnecting of existing and/or installation of new services, maintenance of, continuity of services, etc. 7. The Contractor shall be responsible for properly laying out the Work and for lines and measurements for the Work. Verify all figures shown on drawings before laying out the

Work and repost inaccuracies of errors to the Architect before commencing the Work. 8. The Contractor shall arrange for, provide and maintain temporary facilities and controls as required for the proper and expeditious prosecution of the Work.

9. Unless agreed upon, no signs or advertisements will be allowed to be displayed on the premises of the building.

10. Heat and ventilation as required during construction may not be available for use until finish work begins, including floor finish, as same will be necessary to allow finishes to cure properly. Provide all required temporary heat and ventilation for proper protection of the work and the workers. Comply with all requirements of the Building management

at no additional cost to the Owner. 11. Contractor shall provide all temporary connections, lighting and distribution as required for the execution of the Work.

12. Substitutions: Substitutions of items specified or shown on drawings will not be permitted unless approved in advance by the Architect.

13. Materials, products and equipment shall be properly packaged and protected to prevent damage during transportation and handling. The Contractor shall be responsible for all unloading, rigging and installation of all materials and equipment.

14. Available storage space at the job site is limited to the area of construction. Any additional off-site space required is the responsibility of the Contractor.

15. Store and protect materials delivered to the site from damage. Do not use damaged materials at the site.

16. Name plates and other identifying markings shall not be affixed on exposed surfaces of manufactured items installed in the finished spaces.

17. Prevent accumulations of waste materials on site during the entire construction period. Remove crates, cartons and other flammable waste materials or trash from the work area each work day.

18. Care shall be taken by workmen not to mark, soil or otherwise deface finished surfaces. In the event that finished surfaces become defaced, clean and restore such surfaces to their original condition.

19. Clean up immediately upon the completion of each trader's work and remove surplus materials and rubbish of every kind from the site. 20. Before commencing any alteration or demolition Work, submit a schedule showing the commencement, the order and the completion dates for the various parts of this work,

for review by the Architect. 21. Before starting any work relating to the existing utilities (electrical, sewer, water, heat, gas, fire lanes, etc.) that will temporarily discontinue or disrupt service within the

building, notify the building management and obtain approval in writing before proceeding with this phase of the Work.

22. Take necessary precautions to prevent dust from rising. Protect unaltered portions of the existing building affected by the operations under this Section by dustproof partitions

and other adequate means.

23. Immediately clean all dust and debris related to deliveries or construction which occurs in the Public Corridors or other building areas.

24. Do not close or obstruct walkways, passageways or stairways. Do not store or place materials in passageways, stairs or other means of egress. Conduct operations with minimum traffic interference.

25. The Contractor shall be responsible for any damage to the existing structure or contents by reason of the insufficiency of protection provided.

26. Execute the work in a careful manner and orderly manner, with the least possible disturbance to the public and to the occupants of the building. 27. Where alterations occur, or new and old work join, cut, remove, patch, repair or refinish the adjacent surfaces or so much thereof as is required by the involved conditions, and leave in as good condition as existed prior to the commencing of the work. The materials and workmanship, unless otherwise shown or specified, shall comply with that of the original work. Alteration work shall be performed by the various respective trades which normally perform the particular items of work.

28. Finish new and adjacent existing surfaces as specified for new work. Clean existing surfaces of dirt, grease, loose paint, etc., before refinishing. 29. Provide any temporary protection required to adequately protect the adjoining property, the public and construction personnel. Provide locked entrances. Prevent intrusion to job site by those not permitted.

30. Contractor shall post all applicable building permits in a visible location ready for inspection by the proper authorities having jurisdiction.

31. Contractor shall be responsible for any and all traffic violations due to his operation and misuse of streets and sidewalk surrounding the "Area of Work". 32. No alcoholic beverages or smoking will be allowed within the demised premise. Contractor shall be responsible to enforce same on all subcontractors and subordinate

subcontractors.

33. "General Conditions of the Contract for Construction" A.I.A. Document A-201, 1987 edition, of the American Institute of Architects, referred to in the Contract Documents as the General Conditions, together with the following articles of the Supplementary General Conditions, which amend, modify and supplement various articles and provisions of the General Conditions are made part of the Contract and shall apply to all Work under the Contract. All articles or parts of articles of the General Conditions not so amended,

modified or supplemented by these Supplementary General Conditions, shall remain in full force and effect. Should any discrepancy become apparent between the General Conditions and the Supplementary General Conditions, the latter shall be given and take precedence. 34. The Contractor shall guarantee all work, including labor, materials and equipment, for one (1) year from date of completion of the Project. All work shall be installed in

accordance with the Contract Documents, Manufacturer's instructions and highest quality trade standards, unless more stringent. Where the Contractor is required by the Drawings or Specifications to install Owner furnished items, the Contractor shall unload safely, store, protect, assemble, install and connect such items.

35. Work and Items Supplies By Others: - As Noted 36. Report evidence of overstress, deterioration, and damage that is found or that occurs during the Work. Report conditions that cannot be accommodated by ordinary means

without design changes. Obtain the Architect's direction before proceeding with affected work. 37. Substrate Preparation for Finishing: Repair, clean and recondition existing surfaces so that successful refinishing does not require additional preparation beyond that specified

38. Schedule - The Contractor shall submit Progress Schedule, in easy-to-read graphic form, at the Preconstruction Conference. Show beginning date and Final Completion Date. Show beginning and completion dates for major elements of the Work. Break down major elements to define critical parts. Show dates of Contractor submittals and periods allotted for review by Architect. Update and show all changes, including percentage completion, major changes in scope, modified activities, revised projections of progress and completion, and other identifiable changes. Submit a revised copy at each Progress Meeting. Show dates for receipt of Owner supplied items and services.

39. Schedule of Values: Submit in ample time for review, revision and resubmission before the first application for payment. 40. Contractor shall maintain Project Record Documents and collect one copy each of the following documents and label each one PROJECT RECORD, as follows:

A. Drawings, Specification and Addenda.

B.Change Orders, and other Modifications.

C.Architect's Field Orders and any written instructions. D. Field Test Records.

E. Project Meeting Minutes.

F. Progress Schedule. 41. Keep Record Documents in Contractor's Field Office, separate from documents used for construction and available for Architect's inspection. Mark Record Drawings, Specifications and Addenda neatly and legibly, with colored pencil or felt tip marker, to show actual construction and products used. Keep record current with construction

progress; do not cover up Work until required information is recorded. 42. Close-out Submittals - Before applying for final payment, the Contractor shall submit:

A.Completion Notice and all Certificates of Inspections and other evidence of compliance with regulatory agency requirements.

B. Evidence of payments and release of liens in accord with Conditions of the Contract.

C.Certificate of Insurance for Products and Completed Operations. D. Project Record Documents.

E. Extra stock, spare parts, maintenance materials, keys and special tools required by Product Sections. F. Warranties, services/maintenance contracts, and manuals required by Product Sections.

G. As-Built Drawings

H. Other documents as required by the local jurisdiction at time of project closeout.

43. General Contractor shall provide list of all Subcontractors to Owner's Representative and Tenant's Representative.

44. General Contractor shall provide and install Fire Extinguishers as required by Code. Locations to be verified.

45. General Contractor is to turn over the space to the owner in a clean condition which includes dusting, high dusting and general cleaning.

46. Insurance: all contractors (general and subcontractors) shall comply with local municipality and owner's requirement for insurance, bonds and waivers of lien.

A. Prior to commencement of the work, all contractors and subcontractors shall obtain insurance policies as outlined below. Insurance policies are to name the owner, owner's architect (silhouette design architecture, inc.), the architect's consultants (as listed on the title sheet), the landlord and the landlord's general contractor (if applicable) as additionally insured. Certificates of insurance shall be submitted to those named.

B. Workman's compensation and occupational disease insurance.

state: -statutory-

applicable federal (e.g.: longshoremen, harbor work, work outside the united states):- statutory-Employer's liability: \$500,000.00 per accident, \$500,000.00 disease

4. Benefits required by union labor contracts as applicable

C. Comprehensive general liability (including premises - operations: independent contractors' protective; products and completed operations: broad form property damage; automobile coverage, and contractual liability.)

1. Bodily injury: \$3,000,000 each occurrence, \$3,000,000 aggregate

2. Property damage (including water damage and sprinkler leakage, legal liability). \$3,000,000 each occurrence, \$3,000,000 aggregate

3. Products and completed operations shall be maintained for a minimum of one (1 year after final payment and contractor shall continue to provide evidence of such

coverage to owner on an annual basis during the aforementioned period.

4. Property damage liability insurance shall include coverage for explosion and collapse.

5. Contractual liability (hold harmless coverage): Bodily injury: \$2,000,000 each occurrence, Property damage: \$2,000,000 each occurence \$2,000,000 aggregate 6) Personal injury (with employment exclusion deleted): (G.C. to verify amt. Required w/ owner) each person

D. Comprehensive automobile liability (owned, non-owned, hired): Bodily injury: \$2,000,000 each person, \$2,000,000 each accident, Property damage: \$2,000,000 each

E.Other insurance and bonds as may be required by the owner verify requirements with the owner).

#### **DIVISION 02: Site Work:**

Refer to the architectural drawings for any notes related to demolition work.

2. The General Contractor is to demolish and remove from the premises in a manner acceptable to any jurisdictional agencies, the owner and the approval of the architect, all work so indicated or required by the work of the contract documents or as may be directed in the field by the architect. The work which is to be removed shall include any existing construction, furnishings, equipment or finishes not to remain in the completed work. 3. Layout work:

A. General Contractor shall locate all existing utility service lines and protect them throughout the construction period.

B. General Contractor shall lay out work and be responsible for all lines, elevations, measurements of the building utilities, and other work executed under the contract.

notify architect and owner immediately of any discrepancies between the drawings and existing conditions in written form. D. Any discrepancies, errors, or omissions discovered in the contract documents by the contractor shall be brought to the attention of the architect and owner before proceeding with related work. Otherwise, the correction of such items will be the responsibility of the contractor.

C.General Contractor shall verify all dimensions as they may apply to existing conditions with particular emphasis on dimensions marked "verify" or verify in field (V.I.F.)

#### **Division 03: Concrete Work:**

1. General Contractor shall be responsible for a smooth transition between floors and adjacent floors/public walks. The floor may require latex feathering or, where possible, grinding down of subfloor to allow for a smooth transition, if floor grinding is not permitted by owner, contact architect. 2. Concrete work shall conform to the currently adopted ACI 318, building code requirements for reinforced concrete; ACI 301 specifications for structural concrete for

buildings; ACI 302.1r, guide for concrete floor and slab construction. 3. Ultimate compressive strength of Portland cement concrete, standard weight at twenty eight days shall be 4000 psi for slab on grade, and 3000 psi for all other concrete work. Design and submittal for concrete mix shall be in accordance with ACI 318, chapter 5 and ACI 301, chapter 3 and shall be submitted in advance to structural engineer for approval.

4. Air entrained concrete shall be used for all concrete exposed to weather, except as noted in the drawings.

5. Calcium chloride and/or admixtures containing calcium chloride shall not be included in concrete mix. 6. Concrete contractor shall not pour concrete in adverse weather conditions or when such forecast for the time period following the pour, unless proper curing and protection is provided continuously until concrete develops its design strength.

7. Unless otherwise noted, principle reinforcement shall have the following concrete protection: A. Forward surfaces in contact with soil or water, or exposed to weather --- 2 inches

B. Formed surfaces not in contact with soil or water or exposed to weather --- 3/4 inch 8. Concrete Floors

prior to applying sealer. Allow sealer to dry at least 24 hours (or manufacturer's specified drying time) before subjecting to light foot traffic.

A.Concrete floors to be properly prepared without holes, cracks, and bumps to insure a smooth and level floor installation. B Provide concrete sealer as indicated on drawings. Follow manufacturer's instructions for floor preparation. Test concrete to verify if acid surface preparation is required

#### **Division 04: Masonry: NOT USED**

**<u>Division 05: Metals:</u>** Refer to the structural drawings for specifications related to structural metal work. A.General: Shear and punch metals cleanly and accurately. Remove burrs and ease exposed edges. Form bent-metal corners to smallest radius possible without impairing

B. Welding: Weld corners and seams continuously. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals. At exposed connections, finish welds and surfaces smooth with contour of welded surface matching those adjacent.

Hot-dip galvanize steel fabrications at exterior locations. Prepare uncoated ferrous metal surfaces to comply with SSPC-SP 3, "Power Tool Cleaning," and paint with a fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79.

E. Perform cutting, drilling, and fitting required for installing miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and

elevation; with edges and surfaces level, plumb, true, and free of rack. Fit exposed connections accurately together to form hairline joints.

Setting: Nonshrink, Nonmetallic Grout: ASTM C 1107; recommended by manufacturer for exterior applications as required. Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.

SECTION 06200 - Finish Carpentry: 1. Scope of work includes, but is not limited to, rough carpentry (wood blocking) and finish carpentry (cabinetry, wood trim, hardware and accessories).

2. Rough carpentry: wood blocking

A. Provide solid blocking in stud walls where all fixtures or devices are to be mounted. All wood blocking shall be fire resistant treated. B.All dimensional lumber to be fire retardant with U.L. rating "non-combustible.

3. All dimensional lumber, blocking & nailers to be fire retardant. All finished lumber to be rift-cut Douglas fire retardant where necessary. Utility grade boards to comply with ps-20.

4. Plywood and MDF plywood for general interior carpentry shall be 3/4" APA trademarked, c-d plugged, UL labeled class a, fire-retardant treated, exposure 1 panels complying with ps-1. Provide treatment that yields a flame spread rating of not more than 25 when tested according to ASTM E84. Kiln dry after treatment to moisture content of 15% maximum. 5. Wood shall be seasoned to a 19% moisture content.

The G.C. shall install blocking as necessary for attachment of all interior trim & fixtures. 7. Finish carpentry: cabinetry, and wood trim:

subcontractors and owner's vendors for shop cut grommet holes or be prepared to field cut grommets.

A. All millwork shall comply with the appropriate specifications of "the architectural quality standards illustrated" of the American woodwork institute (AWI) for

B. Stain grade finish lumber shall be `Douglas fir' sanded smooth and free of blemishes or abrasions. All wood shall have tight and uniform joints. Millwork contractor shall verify all dimensions affecting his work in the field prior to fabrication.

Fixture millwork as noted on drawings is supplied and installed by tenant General Contractor, unless otherwise noted. Some field assembly of millwork is required. Follow shop drawing accompanying millwork. All field assembled millwork to be scribed and joinedaccurately. Installation to be in accordance with manufacturer's shop drawings.

Make all joints inconspicuous maintaining a uniform flush connection using combination of screws, dowels and glue. Blind fasten where possible. Where blind fastenings is impossible, drill holes uniformly, set and putty heads and finish as applicable to surface. H. All stain finish wood trim to be custom grade species as noted in drawings. Sanded with tight joints, scraped horizontal, glued, and nailed. No butt joints will be

8. Intumescent coating to be American Fire Coatings, Inc., FC No.166. Apply to untreated wood finishes, following manufacturer's recommendations, must be performed off site, certificate stickers shall be required to be placed on all application locations. 9. Grommets and access holes: provide 2" black plastic grommets at countertops and trough the sides of finished faces of millwork at each POS/Cash register location unless otherwise noted. Provide grommets in countertops when power is below counter height for above counter equipment. GC shall coordinate locations with

#### **Division 07: Thermal & Moisture Protection:**

Scope of work includes, but is not limited to, vapor barrier, building insulation, water proofing membranes and sealants.

Building insulation (when applicable). A. Wall insulation - sound batt - 3 1/2" thick batt insulation at demising walls, toilet room wall, & stockroom walls.

B.Spray foam insulation - Froth-Pak by DOW, class A rating 3. Provide sealant at dissimilar materials to close gaps, including but not limited to door frames, countertops, and trim work.

Seal and caulk around all penetrations, seams, cracks and crevices and any other openings capable of harboring insects/rodents. Provide waterproof membrane at all wet areas. Latcrete-Hydro BAN# 9235 with waterproofing and anti-fracture membrane to extend 6" up wall surface. Provide

Manufacturer corners, use complete system.

**Division 08: Doors, Windows & Glass:** Scope of work includes, but is not limited to, wood and metal doors and frames, metal windows, glass and glazing and hardware.

A. Steel doors: Hollow metal doors (interior), as shown on drawings; 1-3/4 inch thick seamless flush doors, 18 gauge, ASTM a 366 or a 526 cold-rolled steel. Acceptable manufacturers include Ceco, Kewanee or Steelcraft.

Stainless Steel Specialty doors by Eliason as indicated on the door schedule. C. Provide fire rated doors as indicated on the door schedule.

3. Metal frames:

A. Metal frames (interior): 16 gauge, shop primed, continuous welded type for drywall slip-on assembly, unless otherwise noted.

4. Hardware: furnish and install hardware as noted on the hardware/door schedule. A. Mounting height of latching hardware shall be 30" to 44" AFF. Pressure to operate the door shall not exceed 5 lbs for exterior doors and 5 lbs for interior doors &

when fire doors are required 5 lbs max or the maximum effort to operate the door may be increased to the maximum allowable by the appropriate administrative authority. B. Door closer when provided then the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to move to a point 3" from the latch, measured to the landing side of the door.

C. Floor stops shall not be located in the path of travel and 4" maximum from walls.

A.Safety glass: clear, laminated, conforming to ASTM C1172-14; 1/2" thickness, at locations required per code. B. Provide neoprene gaskets, setting blocks and glazing tape at all stops.

Sliding Grilles

A. General: Supply and install model Counter Shutter by MobilFlex (1-800-501-3539) rolling security closure, aluminum overhead

B.Submittals: Submit manufacturer's product data, specifications, installation instructions, shop drawings with layout, fabrication and installation details and samples, including finish.

C.Quality assurance: Provide components from a single manufacturer with resources to provide consistent quality in appearance a. Use manufacturer-approved installers. b. 1 year guarantee on parts and labor.

D. Site requirement: A 5" (127mm) wide opening full width of the closure shall be made in the ceiling to allow easy operation. A 24" x 24" (610mm x 610mm) access panel under charging wheel shall be supplied by other trade in the ceiling. E. Building structure shall be accessible to allow support structure installation.

F. Manufacturer: MobilFlex Folding & Rolling Closures inc Tel: 1-800-501-3539

Fax: 1-800-470-3539

www.mobilflex.com

G. Rolling security closure: Counter Shutter (solid aluminum slats) model by MobilFlex (1-800-501-3539). Curtain shall be constructed of interlocking extruded aluminum slat sections. Each slat shall be made of continuous 0,050" (1.3mm) thick aluminum extrusion, 1 1/2" (38mm) high by 3/8" (9.5mm) deep.

H. Guides: Vertical curtain guides are to be of extruded aluminum 1 1/4" (32mm) wide x 2" (51mm) deep with nylon brush seal to allow smooth operation. Top stoppers to be installed on each guide to stop upward movement of curtain at secured position. Guides to be fastened to wall construction and building framing.

I. End Plates: Provide steel plates not less than 3/16" (5mm) thick (with dimensions appropriate to coil size) to support the ends of the barrel assembly with sealed, self-aligning shaft bearings. End plate assembly to be attached to guides.

J. Barrel: Minimum 4 1/2" (114mm) diameter x 1/8" (3mm) wall steel pipe barrel will be designed to carry curtain load with a maximum allowable deflection of 0.03" per foot of closure width (2.5mm per linear meter in width). Barrel to house a torsion spring counter-balance assembly to counter-balance the curtain.

K.Counter Balance: Oil tempered, helical torsion spring(s) pre-lubricated and secured around a continuous, solid, cold rolled

L. Manually Operated: Closure to be manually operated push up, pull down with removable retrieval rod as standard. The effort

steel inner shaft will act as counter balance within barrel. Shaft will bear on self-aligning, permanently lubricated ball bearing assemblies. Counterbalance assembly to be designed for a minimum life of 20,000 cycles. Spring to be site tensioned by attached accessible charging wheel.

to raise or lower the closure shall not exceed 15 pounds (7kg) force. (Optional but not recommended, hand crank with removable crank handle). M. Bottom Bar: Tubular extruded aluminum section, 1 1/4" (32mm) wide by 2" (51mm) high. Bottom bar to house lock mechanism. Center lock mechanism to be 2-point deadlock which activates 5/16" (8mm) steel lock bars at each end. Standard

MobilFlex cylinders operable from one or both sides. Removal of bottom bar not necessary to change the cylinders. N. Cylinders: Locking bottom bar to be equipped with MobilFlex 1" (2.5mm), 5 pin mortise cylinder. Please choose: 1 cylinder (inside or outside) or 2 cylinders.

O. Material & finish: Standard aluminum 6063-T5 shall be clear anodized finish.

P. The installer shall verify that the opening dimensions are as shown on MobilFlex's shop drawing(s) prior to proceeding with the installation. Check condition of vertical grille guides for damage or pinching by recessing materials or other trade's fasteners driven into quide extrusions. The installation will be completed as soon as the site conditions respect the manufacturer's recommendations.

a. Installation shall be by an installer approved and trained by the manufacturer in strict accordance with installation

Q. Installation of rolling security closure:

b. Explain and review the correct locking, operation and maintenance of the rolling security closure.

1. Scope of work includes, but is not limited to: gypsum board systems, resilient flooring, carpet, wood flooring, ceramic tile, painting and wall finishes. A. All interior finishes shall be Class-A per MAA DST section 15.4.2.8. If using fire retardant on finished carpentry provide Fire

Marshal with manufacturers cut sheets for review prior to application and or use.

**Division 09: Finishes** 

A. Drywall ceilings are to be hung using USG drywall suspension system or approved equal. Installation is to be per

manufacturer's recommendations. B. Acoustical 2x2 lay-in ceilings are to be installed per manufacturer's recommendations.

Attach hanger wires to structure above. Do not support wires from mech or elec equipment. D. Verify hanger layout. Shall not interfere with other components. Hanger spacing not to exceed 4'-0". All fixtures installed in lay-in ceiling shall be placed in center of ceiling tile unless dimensioned otherwise.

# F. Deliver to owner replacement tiles in the amount of 10% of materials.

SECTION 092216 -NON-STRUCTURAL METAL FRAMING

1. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by

an independent testing and inspecting agency acceptable to authorities having jurisdiction. 2.STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 90 and classified

per ASTM E 413 by a qualified independent testing and inspecting agency. 3. METAL FRAMING AND SUPPORTS

a. Steel Framing Members, General: ASTM C 754.

b. Steel Sheet Components: ASTM C 645. Thickness specified is minimum uncoated base-metal thickness.

c. Protective Coating: ASTM A 653/A 653M, G40 (Z120), hot-dip galvanized 4. Framing Systems: a. All interior wall studs shall be a minimum of 20 gauge. Stud depth shall be determined by bearing requirements and stud length.

b. studs shall be installed on each side of all door openings and 18 gauge studwork (max 2' on center) in areas that will support signs, cabinets, shelves, etc. c. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.

1. Provide Clark Dietrich Building Systems; Backing Plate, or a comparable product. Minumum Base-Steel Thickness: 20 Gauge. 5. Suspension Systems: a. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch diameter, or double strand of 0.048-inch diameter

b. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, and 0.162- diameter.

c. Carrying Channels: Cold-rolled steel, 0.053-inch thick, 1-1/2 inches deep. d. Furring Channels: 3/4-inch deep, cold-rolled channels, 0.053 inch thick,

e. Steel studs, 0.033 inch thick, in depth indicated f. Steel, rigid hat-shaped channels; 7/8 inch deep, 0.033 inch thick

6. Grid Suspension System for Gypsum Board Ceilings: Interlocking, direct-hung system. 7. Comply with referenced installation standards and provide accessories.

a. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates. b. Isolation Strip at Exterior Walls: foam gasket

**GENERAL NOTE:** 

1) GC TO VERIFY ALL FIELD DIMENSIONS AND CONTACT

PROJECT ARCHITECT WITH ANY SITE DISCREPANCIES.

2) FIRE RATED WOOD IS REQUIRED FOR ALL BLOCKING.

8. Install steel framing to comply with ASTM C 754." a. Gypsum Plaster Assemblies: Also comply with ASTM C 841. b. Portland Cement Plaster Assemblies: Also comply with ASTM C 1063.

c. Gypsum Veneer Plaster Assemblies: Also comply with ASTM C 844. d. Gypsum Board Assemblies: Also comply with ASTM C 840. 9. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories,

furnishings, or similar construction. 10. Isolate steel framing from building structure, except at floor, to prevent transfer of loading imposed by structural movement. 11. Where studs are installed directly against exterior walls, install isolation strip between studs and wall.

12. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies. 13. Example tolerance in paragraph below is based on ASTM C 636 for acoustical ceilings.

14. Install suspension systems level to within 1/8 inch in 12 feet

**IMPORTANT BID NOTE:** 

REFER TO ARCHITECTURAL, ELECTIRCAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES, SPECIFICATIONS, DETAILS, CONTROLS, ECT. THAT FORM A PART OF THIS CONTRACT. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND CLARIFIED BY THEM FOR INCLUSION IN BASE BID. THE REQUIREMENT WILL BE STRICTLY ENFORED. NO CHANGE ORDERS WILL BE ALLOWED SHOULD THE CONTRACTOR FAIL TO PERFORM THIS FUNCTION

# DESIGN ARCHITECTURE

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MEP CONSULANT:

STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

Description

Date

30% SUBMITTAL	06/07/2019
90% SUBMITTAL	08/08/2019

# **GENERAL NOTES & SPECIFICATIONS**

Project number 2019-033 Date 08-07-19 Drawn by LV SC Checked by

Scale

prepared. Written dimensions on these drawings shall have precedence over scaled dimensions: Contractors shall verify and be responsible for all dimensions on the job and this office must be notified of any variations form the dimensions and conditions shown by these drawings. Shop drawings must be submitted to this office for review before proceeding with fabrication. COPYRIGHT 2019 Silhouette Design Architecture, Inc.

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#### **SECTION 09250 - GYPSUM DRYWALL**

- 1. ENVIRONMENTAL REQUIREMENTS: Comply with referenced standards and recommendations of gypsum board
- manufacturer, for environmental conditions before, during and after application of gypsum board.
- 2. Products: Manufacturers of Gypsum Board and Related products: United States Gypsum Co. or approved equal. 3. General: Size ceiling support components to comply with ASTM C 754.
- 4. Gypsum Wallboard: ASTM C 36 of Type X for fire resistant rated assembles, and all other walls per MPA Guide to Tenant Construction, 2016, 4.02.1, Edges: Tapered. Minimum Thickness - 5/8".
- 5. Trim: ASTM C 1047; standard trim accessories for drywall work, formed of galvanized steel with either knurled and perforated or expanded flanges for nailing or stapling, and beaded for concealment of flanges in joint compound. Provide corner beads, L-type edge trim-beads, special L-kerf-type edge trim-beads, and one-piece control joint beads.
- 6. Joint Treatment: ASTM C 475A. Joint Tape: Per reinforcing tape. 7. Joint Compound: Ready-mixed vinyl type for interior use. Provide two separate grades; one specifically for bedding
- tapes and filling depressions, and one for topping and sanding. 8. Water: Clean and free of deleterious material.
- 9. Installation Standard: Comply ASTM C 754 and ASTM C840. Provide support for all edges of gypsum board. Use screw fasteners only. 10. Install supplementary framing and bracing at the terminations in the work and for support of toilet accessories and
- other construction. 11. Secure hangers to structural support by connecting directly to structure where possible, otherwise connect to inserts

#### clips, or other anchorage devices or fasteners.

#### SECTION 093033 - TILING

- 1. Submittals: Product Data and Samples.
- 2. Stone Floor Tiles: Minimum abrasion resistance of 10 per ASTM C 1353 or ASTM C 241.
- A. Varieties and Sources: As indicated on the Drawings
- B.Select applicable cut in first subparagraph below; delete if stone selected has no veining.
- C.Cut: As indicated on the Drawings
- D. Finish: As indicated on the Drawings.
- E.Edges: As indicated on the Drawings
- F. Module Size: As indicated on the Drawings
- G. Nominal Tile Thickness: As indicated on the Drawings H. Joint Width: As indicated on the Drawings
- 4. Thresholds: As specified above for stone tile. Bevel edges at 1:2 slope, aligning lower edge of bevel with adjacent floor finish. Limit height of bevel to 1/2 inch (13 mm) or less and finish to match face of threshold
- 5. Setting and Grouting Materials: Comply with material standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and methods indicated.
- A.Grout Color: As indicated on drawings.
- B. Thin-Set Mortar: Dry-set Portland cement mortar.
- 6. Cementitious Backer Units: Complying with ANSI A118.9, of thickness indicated. 7. Floor Sealer: Colorless, slip- and stain-resistant, not affecting color or physical properties of stone surfaces.
- 8. Comply with tile installation standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and methods indicated.
- A.For tile floors, follow procedures in ANSI A108 for providing 95 percent mortar coverage.
- 9. Comply with TCA's "Handbook for Ceramic Tile Installation."
- A.Floor Tile Installation Method(s): TCA F114 Cement Mortar, Epoxy Grout; F122 Waterproof Membrane Thin Set B.Wall Tile Installation Method(s): TCA W243 Gypsum Board, Dry Set or Portland Cement Morar; W244C Cement Backer Unit; W245 Coated Glass Mat Water-Resistant Gypsum Back Board
- 10. Apply sealer to cleaned stone tile flooring according to sealer manufacturer's written instructions.
- 11. Installation of flooring:
- A. Installation procedures will be thin set methods in strict accord with manufacturer's recommendations contained in each box of material. Accepted methods by the Tile Council of America including using the proper trowel (1/4" x 3/8" x 1/4"), beating-in and back-buttering. These techniques, especially for larger tile, must be followed to obtain proper
- transfer and levelness.
- B.Close area to normal traffic for 24 hours (or longer) depending on type of material and manufacturer's recommendation. Flooring will be protected from construction traffic after laying and grouting.
- C. Provide setting and materials obtained from one source for each type and color of grout and setting materials. 12. All grout shall be epoxy grout.
- 13. All tile installation shall comply with Tile Council of North America, Inc. 2013 TCNA Handbook for Ceramic, Glass, and Stone Tile Installation and (ANSI) the American National Standard Specification for the Installation of Ceramic Tile.

#### **SECTION 09900 - PAINTING**

- 1. Samples: Submit samples for review of each required color and texture. Identity materials used on samples.
- 2. Submit paint samples on 12' x 12' hardboard. Resubmit samples until they are acceptable. 3. Apply full-coat finish samples on at least 60 sq. ft of wall where directed, until required sheen, color and texture are
- obtained under finished lighting. 4. Apply water-based paints only when temperature of surfaces to be painted and surrounded air temperatures are
- between 50 degrees F and 90 degrees F, unless otherwise permitted by paint manufacturer's instructions. 5. Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air temperatures are
- between 45 degrees F and 90 degrees F, unless otherwise permitted by paint manufacturer's instructions.
- 6. Do not apply paint when relative humidity exceeds 85%; or to damp or wet surfaces; unless otherwise permitted by paint manufacturer's Instructions.
- 7. Do not paint over dirt, rust, scale, grease, moisture, or conditions detrimental to formation of a durable paint film.
- 8. Provide barrier coats over incompatible primers or remove and re-prime as required. 9. Remove hardware, accessories, lighting fixtures, and similar items not to be field-painted, or provide suitable protection.
- Remove items if necessary, for painting of items or adjacent surfaces.
- 10. Clean surfaces to be painted. Remove oil and grease prior to other cleaning. Be sure that cleaning materials do not fall onto newly-painted surfaces.
- 11. Available Manufacturer's: Subject to compliance with requirements, provide products as manufactured by Benjamin Moore and Co. or approved equal.
- 12. Colors: As specified by Architects. 13. Volatile Organic Materials: Provide paint and coating products to comply with applicable environmental regulations
- authorities. Federal numbers where specified, are for guidelines only. 14. Primers and Undercoat: Provide primers and undercoat recommended by the finish coating manufacturer for
- suitability with the substrate and compatibility with finish coats. 15. Cementitious Materials: Remove efflorescence, chalk, dust, and dirt, grease, oils, and release agents. Correct alkalinity
- before application of paint.
- 16. Wood: Scrape, clean and seal all architectural woodwork items, scheduled to be field painted, before priming as recommended by the fabricator.
- 17. Ferrous Metals: Clean unfinished ferrous surfaces of oil, grease, dirt, loose mill scale and other foreign by solvent or mechanical cleaning. Touch-up defective shop-prime coats with shop primer.
- 18. Note: No spraying of oil based paints or materials permitted.
- 19. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate
- and type of material being applied. 20. Mix and prepare painting materials in accordance with manufacturer's directions. Maintain containers used in mixing
- and application paint in clean condition, free of foreign materials and residue. 21. Use only thinners approved by the paint manufacturer and only within recommended limits.
- 22. Provide finish coats which are compatible with prime paints used.
- 23. Apply additional coats when undercoats shoe through final coat of paint, until paint film is uniform finish, color and
- appearance, including edges, corners, crevices, welds and fasteners. 24. Paint interior surfaces of duct, diffusers, radiator enclosures where visible through registers or grilles with flat, non-
- specular white paint.
- 25. Paint back sides of access panels, and removable doors varnish coat.
- 26. Sand lightly between each succeeding enamel or varnish coat.
- 27. Omit first coat (primer) on metal surfaces that have shop primed and touch-up painted. 28. Completed Work: Match approved samples for colors and texture. Repaint work not in compliance with specified
- 29. Clean Up: During progress work, remove from site discarded paint materials, rubbish, cans and rags at the end of
- each work day. Upon completion painting work clean paint spattered surfaces. Remove splattered paint by proper
- methods, with care not scratch or otherwise damage finished surfaces. 30. Interior Paint and Finish Schedule: General: Subject to compliance with requirements, provide following interior
- paint systems, or equal by other specified manufactures, of color as selected by the Architect. Completely cover material to provide a smooth surface of uniform finish in color, appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.
- 31. See finish schedule for further information.

#### **Division 10: Miscellaneous Specialties:**

General Contractor (GC) to install owner supplied furnishing and equipment (as noted in the division of work).

General Contractor (GC) to furnish and install fire extinguishers per code or as directed by Fire Marshall.

**BEV WAY** 

1. The Beverage Line Conduit Systems to be installed hereunder shall be 4", 6", 8" or 10" as specified on the Food Service drawings, corrosion resistant Aluminum conduit tubing, conforming to ASTM-B313 and ANSI-H26, and H35.1, as manufactured by Kelly BevWay Systems Co., Chicago, IL, 877-753-0600.

Bends shall be long sweep type, of the same grade and coated in the same manner as the tubing specified above. Minimum centerline radius of all bends shall be 24" for 4"O.D., 30" for 6" O.D., 32" for 8"O.D., and 32" for 10" O.D. No segmented elbows or short radius plumbing elbows shall be permitted.

3. All joints shall be made with a liquidtite mechanical bolted coupling system or liquidtite slip coupling system. Edges of tubing and bends must be deburred and smoothed prior to forming joints. Expansion sleeves with a moisture barrier must be provided where the conduit crosses building expansion joints, liquidtite integrity

- 4. No spiral formed tubing or duct, or other unsmooth interior tubing or conduit will be permitted. PVC shall be used only for underground and other buried portions of the systems, Schedule 40 type with Long Radius Sweep
- Bends, 24" for 4" PVC, 30" for 6" PVC and 48" for 8" PVC. Multi-Clamped Pull Sleeves, four (4) feet long minimum, must be provided for continued access to beverage lines in accessible locations approximately every 100 feet or every three (3) bends, whichever occurs first. Where junctions are required, Pull Boxes having adequate inside dimensions for pulling and turning will be provided in place
- of a Pull Sleeve. Conduit system terminations shall be stubbed-up 4" above finished floor unless otherwise called out on
- drawings. All floor penetrations shall be sealed with a UL approved firestop assembly method. All terminations shall be finished with a rounded slip fitting end-mouth having a smooth bell-shaped swaged
- 8. Support hangers will be double rod type and spaced on 10 foot centers. Support hangers will be provided within 1 foot of each Pull Box. 9. Fire Extinguishers: (GC) is to furnish and install hook mounted 10lb fire extinguishers as required by code or as directed by the Fire Marshal. Provide type ABC for general use and type K for use in Kitchens. Locate as directed

#### **Division 11: Equipment:**

by the Fire Marshal and verify location with Architect.

General Contractor (GC) to install owner supplied furnishing and equipment (as noted in the division of work).

**Annotation List** 

FRT

GC

MW

FEV

GΑ

OC

AFF

FOH

TYPICAL

**GAUGE** 

ON CENTER

MAXIMUM

MINUMUM

VERIFY IN FIELD

**BACK OF HOUSE** 

FRONT OF HOUSE

MILLWORKER

FIRE RETARDANT TREATED

FOOD EQUIPMENT VENDOR

GENERAL CONTRACTOR

ABOVE FINISHED FLOOR

#### **Division 12: Furnishings:**

General Contractor (GC) to install owner supplied furnishing and equipment (as noted in the division of work).

# **SYMBOL LEGEND** CALLOUTTAG **CASEWORKTAG DOOR TAG EXIT SIGN FURNITURE TAG COLUMN LINE** Name **ELEVATION LEVEL** Elevation LIGHT FIXTURE TAG MATERIAL TAG Wall Finish Floor Finish Wall ROOM FINISH TAG Base Finish Wall Finish Room name ROOMTAG 101 150 SF **SECTION TAG** SPOT ELEVATION TAG

WALLTYPE

#### **IAA GENERAL REQUIREMENTS:**

- 1. All new Tenants to have individual control of the Tenant supplied HVAC system or equipment. Adjustment should not affect the temperature in adjacent Tenant spaces
- 2. All abandoned conduit and piping shall be removed in new Tenant build-outs. Patch and repair all holes, Repair shall not compromise any existing fire resistance ratings. 3. A master water shutoff valve needs to be provided for each individual Tenant space.
- 4. Floor/Wall Cleanouts (sanitary & grease) must be accessible and remain accessible. No future furniture, fixtures and/or equipment should be placed in front of or over a floor or wall
- cleanout cover/access point. 5. Any new potable water, drain, electrical (power/communications) piping and fiberoptic cabling in the common area of the 2<sup>nd</sup> floor (or back-of-house on concourse level) should be
- identified for the Tenant space served. Identification markers (color coding) shall be placed 10 feet on center.
- 6. Construction dumpsters, used by tenant build-out contractors, shall have covers to prevent blowing debris/trash.
- 7. Temporary enclosure walls shall be sealed to prevent release of dust into the tenant areas (from the construction areas). 8. Civic Plaza Tenant roll-down grilles have inaccessible mechanical linkages. Access door(s)/panel(s) to the mechanical linkages will be required for future repairs/servicing. 9. Restaurant Kitchens or other areas with water usage will require a waterproof membrane between the concrete slab and the finished floor to prevent water infiltration into the lower
- level. The waterproof membrane will also be required at the floor drain bells/hubs and turned up under the perimeter floor base. 10. Contractor Parking is provided in the IAA Loading Dock (see attached map). 11. IAA Required Subcontractors
- a. Any changes, modifications, additions, deletions or other actions to the following systems must be performed by the below indicated Subcontractor:
- b. Fire Alarm System: ESCO, Contact Bob Reed (317) 532-1308, Bob.Reed@escocommunications.com c. Dry Pre-action Fire Protection System: 3S Incorporated, Contact Sean Copenhaver (513) 202-5070, Sean.Copenhaver@3S-Incorporated.us
- d. Wet Fire Sprinkler Protection System: Indiana licensed fire sprinkler protection company that has worked on the IND Terminal/Concourse areas wet fire sprinkler protection system include: Dalmatian Fire Protection, Geyer Fire Protection, Ryan Fire Protection and Koorsen Fire & Security
- 12. IAA Demolition Requirement a. Demolition of any architectural, mechanical, electrical, plumbing or other building system described in these documents is to be performed by Contractors who are qualified and
- licensed in the system they are demolishing. 13. Final Work Permit Application Plan submittals must be signed/sealed by an Indiana Licensed Professional (Architect/Engineer)
- 14. Provide metal stud deflection track where demising walls meet structure above. 15. The outside face of Tenant cavity walls that face the exterior curtainwalls in Concourse A & B are to be finished & painted. A minimum 1'-8" of clearance must be provided between the
- outside face of the Tenant cavity walls and the inside face of the base board heating enclosure. 16. No exposed gypsum wall board will be allowed on surfaces exposed to the public because of durability issues.
- 17. The Tenant's General Contractor is responsible for maintaining the integrity and aesthetics of the IAA installed enclosure walls.
- a. Each tenant is responsible for installing a minimum of 2 fiber pairs into their space. The fiber will be properly terminated into the assigned tenant communication room (TCR).
- Additional pairs of fiber and/or CAT6 network cables can be added as needed.
- Any network connection medium (fiber or copper) must be labeled and pass all IAA IT cabling specification when leaving the tenants space.
- b. Tenant communication Rooms (TCR) are only available for terminations, handoffs, and/or cross patching of copper and fiber. c. There are 2 internet service providers in the airport. At this time, they are Spectrum Broadband and ATT. They are THE ONLY providers at this time.
- d. Tenants requiring internet access must terminate their internet circuit in their tenant space. This means cable modems, routers, etc. must reside in their tenant space. e. The IAA does NOT provide phone service. This can be purchased via ATT or Spectrum as well.
- f. Tenants utilizing wireless networking must provide the following in writing

f. Any existing fiber data cables must be removed if they are not being used in the project.

- Any broadcasted Service Set Identifier (SSID) names
- Contact information for the given SSID(s)
- Broadcast frequency / channel band
- Purpose g. It is further required for tenants using wireless that they contain their wireless footprint to within the confines of their tenant space as much as possible.
- h. It is highly recommended that tenants use the 5GHz wireless band.
- 19. New Tenants will be required to recalibrate and zero the electric and gas meters when they take ownership of their lease space. Fire alarm graphics will also require updating.
- 20. The Indianapolis Airport Fire Department will require fire protection drawings for review and permitting. These will include indications of existing/new/relocated sprinkler head locations, pipe hanging details and pertinent sprinkler notes. The Contractor will be required to include the Fire Department in the shop drawing review process.
- 21. Tenant Blade Signs on Concourse A and B will be required to comply with the dimensional limitations indicated on attached "Exhibit 20 Tenant Blade Sign Concourses". 22. IT Data Fiber Installation Guide: a. The Indianapolis Airport Authority requires all new construction of Tenant spaces to have a minimum of 6 strands of single mode fiber installed from Tenant provided D-Mark in their
- space to a TCR room that will be assigned by the Airport. b. Fiber should be installed in conduit. The end of the fiber that terminates in the TCR room shall be an SC connector. The Tenant may install more than 6 strands of fiber if they are
- c. All Tenant fiber will be terminated in a Panduit wall cabinet (FRME 4). Horizontal and vertical ladder trays must be provided to the Panduit wall cabinet. Fiber must be secured to the ladder trays with Velcro strapping. A Panduit FAP3WBUDSCZ connector will need to be provided in the wall cabinet by the Tenant.
- d. Any cable going into or out of a wall must be labeled on each side of the wall. The label should have what room it was from, where it's going, who it belongs to and a contact phone number. All cables must also be labeled at the panels. IAA IT will inspect all cable runs to insure this is completed before work can be approved.
- e. IT fiber data cable paths must be identified and routed from the Tenant Communication Room (TCR) to the Tenant IT equipment on the engineering drawings prior to permitting

(Revised 6/14/19)

# SILHOUETTE DESIGN ARCHITECTURE

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STRUCTURAL CONSULTANT: Yun Associates, LLC Bill Yun 1775 K St, NW Suite 220 Washington, DC, 20006 T. (202) 849-3075 byun@yunassociates.com

# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

	I INO.	Description	Date
		30% SUBMITTAL	06/07/2019
		90% SUBMITTAL	08/08/2019
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# **GENERAL NOTES & SPECIFICATIONS**

Project number 2019-033 08-07-19 Drawn by Checked by

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**GENERAL NOTE:** 

SHOULD THE CONTRACTOR FAIL TO PERFORM THIS FUNCTION.

**IMPORTANT BID NOTE:** 

1) GC TO VERIFY ALL FIELD DIMENSIONS AND CONTACT PROJECT ARCHITECT WITH ANY SITE DISCREPANCIES.

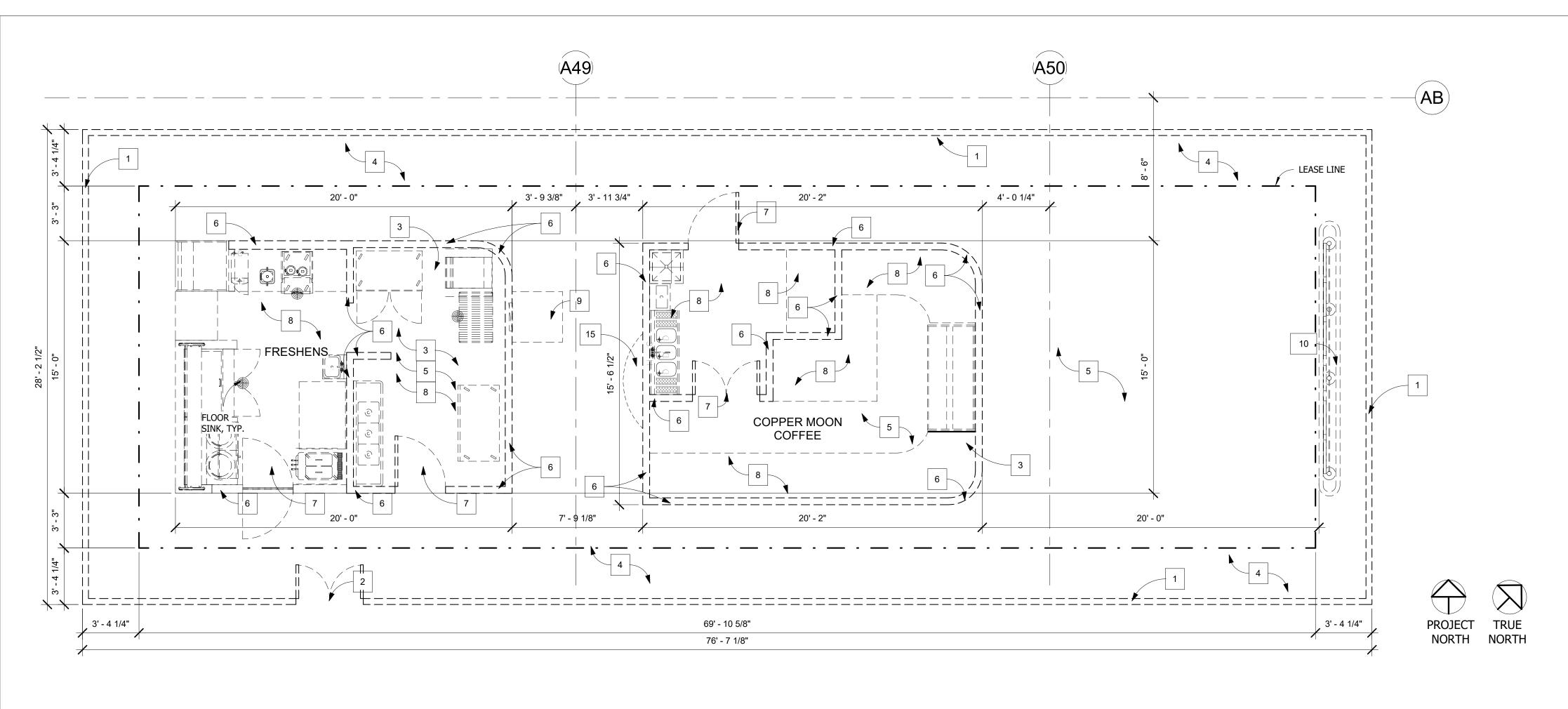
2) FIRE RATED WOOD IS REQUIRED FOR ALL BLOCKING.

REFER TO ARCHITECTURAL, ELECTIRCAL, MECHANICAL, AND PLUMBING DRAWINGS

FOR ADDITIONAL NOTES, SPECIFICATIONS, DETAILS, CONTROLS, ECT. THAT FORM A

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REQUIREMENT WILL BE STRICTLY ENFORED. NO CHANGE ORDERS WILL BE ALLOWED



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

# # DEMOLITION KEY NOTES:

- 1. NEW TEMPORARY BARRICADE. GC RESPONSIBLE FOR INSTALLING ANY OWNER PROVIDED GRAPHIC.
- 2. ENCLOSURE WALLS AND DOUBLE DOORS PROVIDED BY CONCESSIONS REFRESH WHITE BOX CONTRACTOR. GC RESPONSIBLE FOR COORDINATING INSTALL WITH REFRESH
- WHITE BOX CONTRACTOR

  3. EXISTING KIOSKS TO BE REMOVED IN ITS ENTIRETY, REMOVE ALL EQUIPMENT,
- WALLS, FURNISHINGS, CEILINGS, FIXTURES, CANOPY, ETC. SEE ENGINEERING DRAWINGS.
  4. EXISTING AIRPORT FLOORING TO REMAIN. PROTECT FROM DAMAGE. GC
- RESPONSIBLE TO REPAIR ANY DAMAGED AIRPORT SURFACES.

  5. REMOVE EXISTING ELOOR FINISHES, ENSURE ELOOR IS LEVEL AND PREPARE.
- 5. REMOVE EXISTING FLOOR FINISHES. ENSURE FLOOR IS LEVEL AND PREPARE TO ACCEPT NEW FINISHES.
- 6. EXISTING WALL TO BE REMOVED
- 7. EXISTING WALL TO BE REMOVED
- 8. REMOVE EXISTING FURNISHING, EQUIPMENT, MILLWORK, WATER HEATER, ETC. SEE ENGINEERING DEMO PLAN.
- 9. EXISTING ELECTRICAL PANELS & DISCONNECT TO BE REMOVED. SEE MEP DEMO PLAN.
  10. EXISTING FIDS TO BE RELOCATED TO NORTHEAST SIDE OF NEW A-N2. CONFIRM AND

16' x 12' - Original modular design over doors with graphic band

- COORDINATE EXACT NEW LOCATION WITH AIRPORT.

  11. EXISTING CEILING TO BE REMOVED.
- 12. EXISTING CANOPY TO BE REMOVED.

OPTION 4.5:

3 BARRICADE GRAPHICS

1/4" = 1'-0"

- 13. EXISTING SIGNAGE TO BE REMOVED.
  14. REMOVE ALL EXISTING LIGHT FIXTURES, SPEAKERS, CAMERAS, ETC. SEE MEP DEMO
- PLAN FOR MECHANICAL DEMO.

  15. REMOVE EXISTING CONDIMENT STATION.

  16. REMOVE EXISTING BULKHEAD.

**BARRICADE NOTES:** 

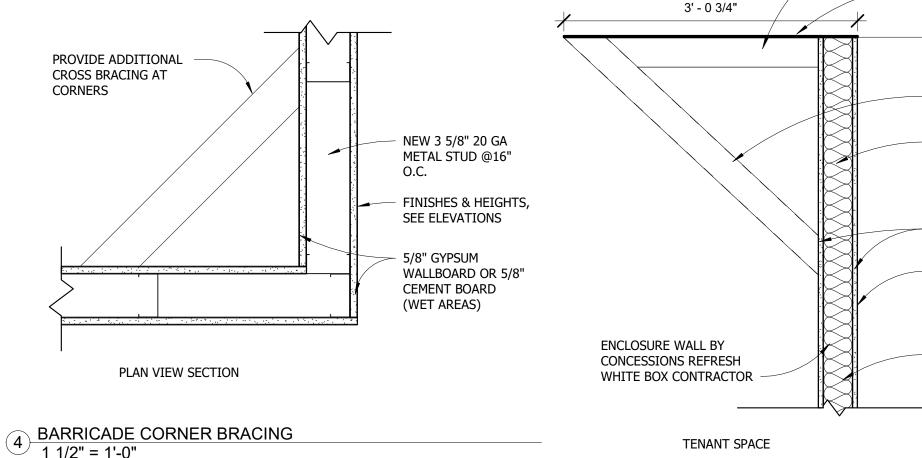
- GC TO PROVIDE AND VERIFY TEMPORARY GRAPHIC SIZE AND DOOR LOCATION IN FIELD. GC TO PROVIDE AND INSTALL BARRICADE GRAPHIC. SUBMIT SHOP DRAWING TO ARCHITECT FOR APPROVAL.
   PROTECT AIRPORT FLOORING TO REMAIN.
- PROTECT AIRPORT FLOORING TO REMAIN.
   SCHLAGE ACG CORE WILL BE INSTALLED IN THE DOOR. CONTRACTOR RESPONSIBLE TO APPLY FOR A KEY.
   BARRICADE CONSTRUCTION TO BE COORDINATED WITH REFRESH
- WHITE BOX CONTRACTOR AND CONFIRMED WITH INDIANAPOLIS
  INTERNATIONAL AIRPORT FOR APPROVAL.

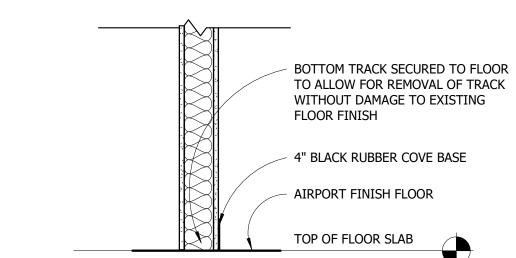
  5. CONTINUOUS CONSTRUCTION BARRICADE TO SEPARATE WORK AR
- 5. CONTINUOUS CONSTRUCTION BARRICADE TO SEPARATE WORK AREA FROM NON-SECURE CONCOURSE AREAS.6. TAPE, FLOAT, AND PAINT CONCOURSE SIDE OF BARRICADE & INSTALL
- GRAPHICS PROJECT BY CONCESSIONS REFRESH WHITE BOX CONTRACTOR PER INDIANAPOLIS INTERNATIONAL AIRPORT DIRECTION.

  7. DEMOLITION OF DUST PARTITION AT CONCLUSION OF PROJECT BY GC.
- DEMOLITION OF DUST PARTITION AT CONCLUSION OF PROJECT BY
   REPAIR ANY DAMAGES TO AIRPORT CEILING OR FLOORING AFTER REMOVAL OF BARRICADE.

OPTION 4.5:

4' x 12' – Original modular design with graphic band





HORIZONTAL CORNER

6MM PLASTIC SHEETING,

TEMPORARY DIAGONAL BRACE AT

ACOUSTICAL INSULATION, ONLY

ALONG FRONT FACE OF SPACE

(NEAR FOOD COURT SEATING)

10' O.C. AND ENDS OF WALL.

BRACING @ SIDES,

36" FROM CORNER

CONTINUOUS

1 LAYER OF 5/8"

FINISH (PAINTED

WHITE - EGGSHELL

3 5/8" METAL STUDS

20 GA. @ 16" O.C.

**BRACE AT CORNER** 

CONCOURSE

"TYPE X" GWB.

FINISH)

NOTE: PROVIDE ADDITIONAL CROSS BRACING AT CORNERS

# 12 ft S4" to bottom S4" to bottom

NOTE: GC TO PROVIDE AND INSTALL BARRICADE GRAPHICS

# 2 TEMPORARY BARRICADE 1" = 1'-0"

GENERAL NOTE:
 1) GC TO VERIFY ALL FIELD DIMENSIONS AND CONTACT PROJECT ARCHITECT WITH ANY SITE DISCREPANCIES.

2) FIRE RATED WOOD IS REQUIRED FOR ALL BLOCKING.

# IMPORTANT BID NOTE:

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# **GENERAL DEMOLITION NOTES**

- DEMOLITION PLAN IS INDICATED FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND COORDINATE ALL REQUIRED DEMOLITION, AS REQUIRED, PER CONSTRUCTION DRAWINGS.
- 2. REFER TO CONSTRUCTION PLANS FOR EXTENT OF NEW CONSTRUCTION.
- . COORDINATE DEMOLITION WORK WITH ELECTRICAL DRAWINGS.
- 4. CARE SHOULD BE TAKEN TO PROTECT, MAINTAIN, AND NOT INTERRUPT EXISTING SERVICES AND UTILITIES SERVING THE BLDG.
- 5. NOT USED
- 6. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS AND EXISTING CONDITIONS.
- 7. ASBESTOS/ HAZARDOUS WASTE CONTACT AND REMOVAL: THE OWNER SHALL BE IMMEDIATELY NOTIFIED IF DEMOLITION AND/OR CONSTRUCTION UNDER THIS CONTRACT INVOLVES CONTACT WITH ASBESTOS OR OTHER HAZARDOUS MATERIAL. IF FOUND OR SUSPECTED WITHIN THE AREAS OF DEMOLITION AND/OR CONSTRUCTION, NOTIFY OWNER IMMEDIATELY.
- 8. CONFORM TO LOCAL BUILDING CODE FOR DEMOLITION, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, SERVICE UTILITIES AND DISCOVERED HAZARDS.
- 9. PERMITS: GENERAL CONTRACTOR SHALL MAKE ALL ARRANGEMENTS, PAY FOR AND OBTAIN ALL DEMOLITION PERMITS, INCLUDING PERMITS REQUIRED TO DISCONNECT AND CAP ALL UTILITIES, AS REQUIRED, INCLUDING BUT NOT LIMITED TO DOMESTIC AND FIRE PROTECTION, WATER, GAS ELECTRICAL AND PHONE SERVICES, STORM AND SANITARY SEWERS.
- 10. PRIOR TO CONTRACT, GENERAL CONTRACTOR SHALL INSPECT ALL AREAS AFFECTED BY DEMOLITION AND EXISTING CONSTRUCTION TO REMAIN, AS WELL AS ADJACENT AREAS AFFECTED BY DEMOLITION.
- 11. GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES OR HIDDEN CONDITIONS AFFECTING DEMOLITION OR PROPOSED NEW WORK.
- 12 NOT USED
- 13. GENERAL CONTRACTOR SHALL REPAIR OR RESTORE TO EXISTING CONDITION ADJACENT CONSTRUCTION AND PUBLIC OR PRIVATE PROPERTY DAMAGED BY WORK.
- MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE
   OR OBSTRUCT ROADWAYS OR SIDEWALKS WITHOUT PERMITS. DO NOT CLOSE
   OR OBSTRUCT REQUIRED EXISTING EGRESS AT ANY TIME.
- 15. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION AND ARCHITECT/ ENGINEER
- 16. DISCONNECT, CAP AND IDENTIFY DESIGNATED UTILITIES, PER DRAWINGS AND AS REQUIRED.
- 17. DEMOLISH COMPONENTS INDICATED, IN AN ORDERLY AND CAREFUL MANNER.
- 18. COORDINATE SEQUENCE OF ALL DEMOLITION AND NEW CONSTRUCTION
- 19. REMOVE DEMOLISHED MATERIALS FROM SITE AS WORK PROGRESSES.
- 20. UPON COMPLETION OF DEMOLITION, THE PREMISES SHALL BE LEFT CLEAN
- 21. NOT USED

AND CLEAR OF DEBRIS

WITH OWNER.

- 22. ANY PENETRATIONS TO EXISTING ROOFING SHALL MEET ALL REQUIREMENTS TO MAINTAIN OWNER WARRANTY. VERIFY REQUIREMENTS WITH
- 23. PROVIDE TEMPORARY SHORING AND BRACING MEMBERS WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSING LOADS. REMOVE TEMPORARY CONNECTIONS AND MEMBERS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. LEVEL AND PLUMB INDIVIDUAL MEMBERS OF THE STRUCTURE WITHIN ACCEPTABLE TOLERANCES. G.C. SHALL ASSUME RESPONSIBILITY FOR PROVIDING ADEQUATE BRACING OF ALL WALLS DURING DEMOLITION AND CONSTRUCTION.
- 24. ALL WORK MUST COMPLY WITH O.S.H.A. SAFETY GUIDELINES.
- 25. WHEN EXISTING MECHANICAL, PLUMBING AND/OR ELECTRICAL FIXTURES AND/OR EQUIPMENT ARE REMOVED FROM THE BUILDING, THEY ARE TO BE DISCONNECTED AT THE SOURCE. (UNLESS OTHERWISE NOTED)
- 26. THE DOCUMENTS ASSUME ALL MECHANICAL, PLUMBING & ELECTRICAL DEVICES TO REMAIN ARE IN SATISFACTORY CONDITION AND ARE TO BE REUSED. ITEMS SCHEDULED FOR REUSE ARE TO BE INSPECTED BY A MECHANICAL/ ELECTRICAL CONTRACTOR AND THE OWNER SHALL BE ADVISED OF CONDITION FOR REUSE.
- 27. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL, TELEPHONE OUTLETS AND ALL ASSOCIATED WIRES IN THE WALLS TO BE REMOVED AND TERMINATED AT THE LAST OUTLET THAT REMAINS IN SERVICE. COORDINATE WITH ELECTRICAL PLANS.
- 28. ALL EMPTY CONDUIT AND JUNCTION BOXES TO BE REMOVED.
- 29. DEMOLITION CONTRACTOR SHALL REMOVE ALL FLOOR COVERINGS WHERE INDICATED AND GLUE AND PREPARE THE FLOOR FOR NEW FLOOR COVERINGS PER MFG WRITTEN RECOMMENDATIONS.
- 30. CONTRACTOR SHALL AVOID ANY CUTTING OF EXISTING REINFORCEMENT OF EXISTING FLOOR DURING INSTALLATION OR DEMOLITION OF ANY CONDUIT OR PIPE, ETC.
- 31. ALL DEBRIS, DIRTY WATER / RESIDUE FROM TILE CUTTING ETC MUST BE TAKEN OFF SITE AND DISPOSED OF CORRECTLY.
- 32. REMOVE ALL TRASH FROM WORK SITE DAILY.
- 33. ALL UNUSED EXISTING FLOOR PENETRATIONS MUST BE COMPLETELY FILLED AND PATCHED.

# DEMOLITION FLOOR

PLAN

DESIGN ARCHITECTURE

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Chicago, Illinois 60661 312.258.0025

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INDIANAPOLIS INTERNATIONAL AIRPORT

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INDIANAPOLIS, IN, 46241

CONCOURSE A, LEVEL 3, SPACE AF-7

06/07/2019

08/08/2019

Description

30% SUBMITTAL

90% SUBMITTAL

Bill Yun

Suite 220

1775 K St, NW

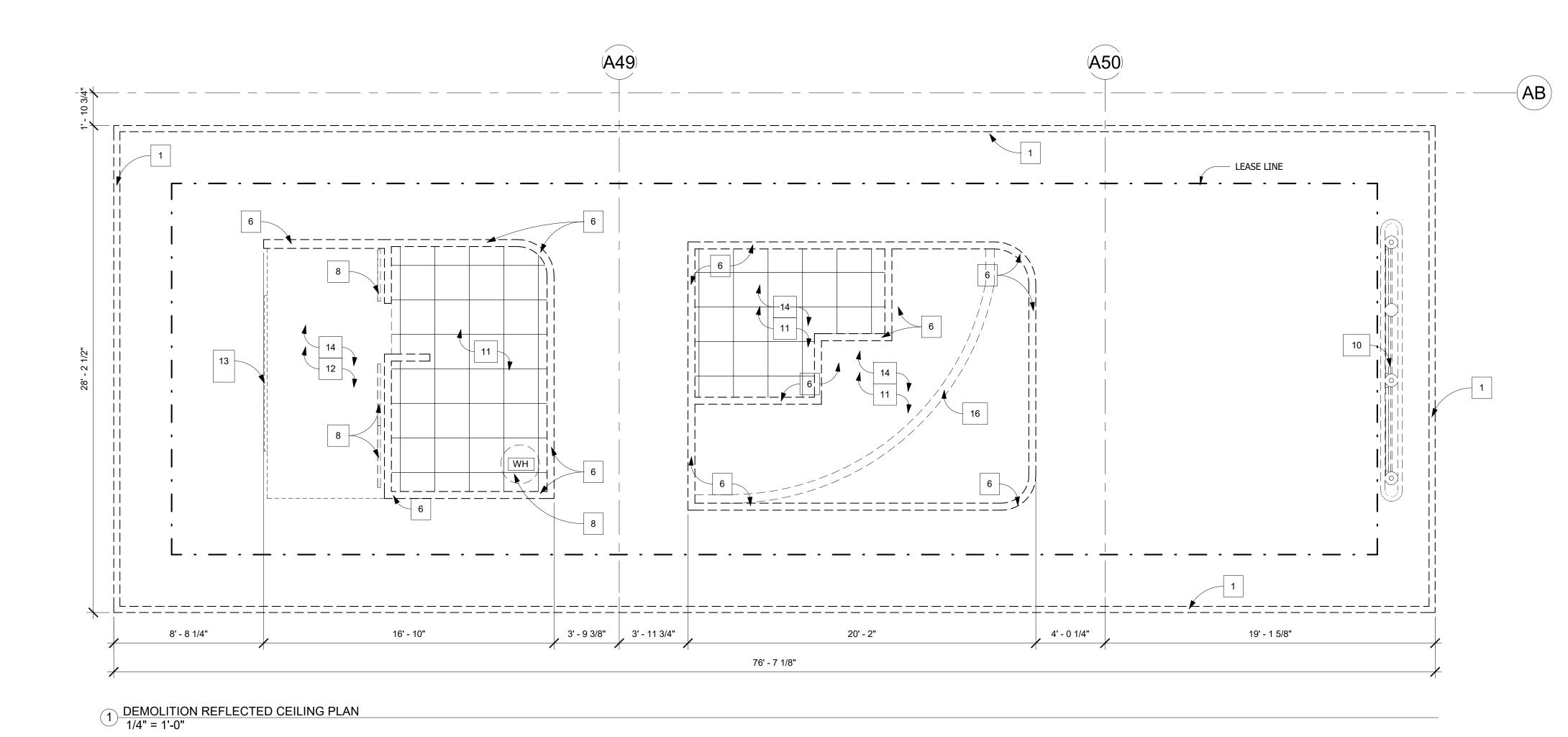
T. (202) 849-3075

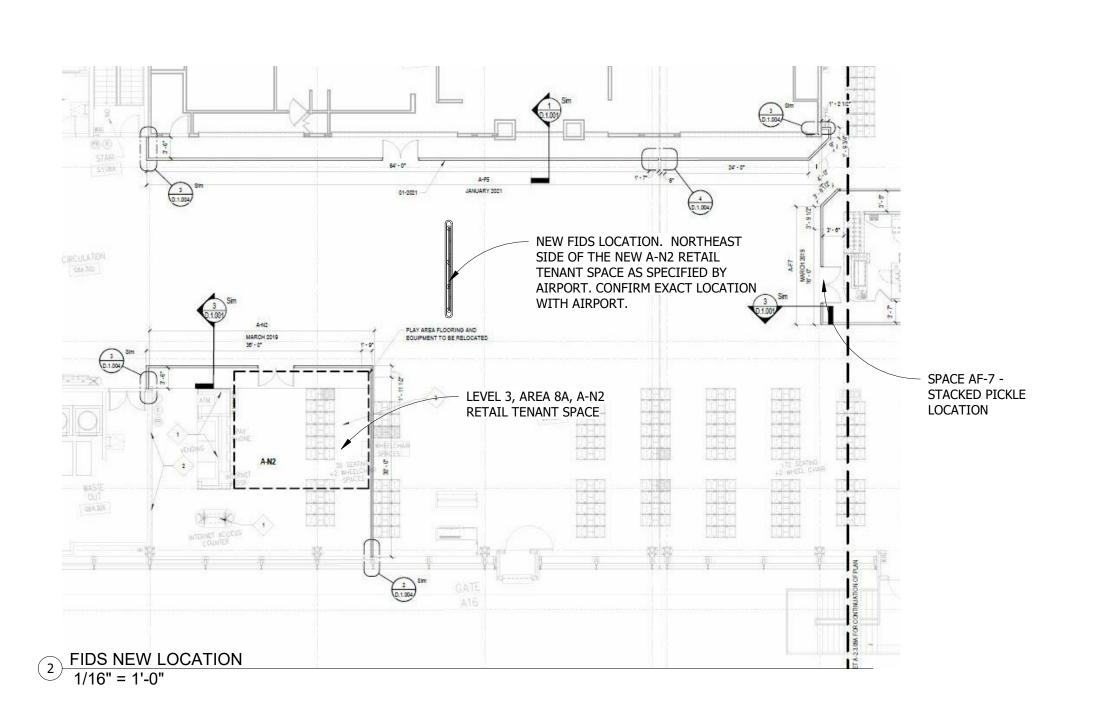
DESIGNER:

	Project number	2019-033
`	Date	08-07-19
$\setminus$	Drawn by	LV
	Checked by	SC

A0.3

Scale As indicated





# **DEMOLITION KEY NOTES:**

- 1. NEW TEMPORARY BARRICADE. GC RESPONSIBLE FOR INSTALLING ANY OWNER PROVIDED GRAPHIC.
- 2. PROVIDE DOUBLE DOORS WITH LOCK FOR BARRICADE. PROVIDE DOOR CLOUSE, ASTAGAL, PROVIDE BEST 6 OR 7 PIN STORAGE LOCKSET. DOOR TYPE TO BE STEELCRAFT HOLLOW METAL SERIES L. CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ANY AIRPORT STANDARDS.
- 3. EXISTING KIOSKS TO BE REMOVED IN ITS ENTIRETY, REMOVE ALL EQUIPMENT, WALLS, FURNISHINGS, CEILINGS, FIXTURES, CANOPY, ETC. SEE ENGINEERING DRAWINGS. 4. EXISTING AIRPORT FLOORING TO REMAIN. PROTECT FROM DAMAGE. GC
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# STACKED PICKLE

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110.	Description	Date
	30% SUBMITTAL	06/07/201
	90% SUBMITTAL	08/08/201

# **DEMOLITION** REFLECTED **CEILING PLAN**

2019-033 Project number FOR ADDITIONAL NOTES, SPECIFICATIONS, DETAILS, CONTROLS, ECT. THAT FORM A 08-07-19 Drawn by REQUIREMENT WILL BE STRICTLY ENFORED. NO CHANGE ORDERS WILL BE ALLOWED Checked by

Scale As indicated

DIVISION OF	WORK			DIVISION OF W	ORK		VENDOR COORDINATION	
DESCRIPTION	EXIST. DOES TO NOT REMAIN APPLY FURN. INST.	FIXTURE WILLWORK VENDOR  FURN. INST. FURN. INST. FURN	OWNER REMARKS	DESCRIPTION EXIST. TO REMAIN	DOES NOT APPLY FURN. INST. FURN. INST. FURN.	ORK OWNER INST. FURN. INST.	AUDIO	S
DIVISION 01: GENERAL REQUIRE				DIVISION 13 & 14: SPECIAL CONSTRUC			CONTACT	DE
AS APPLICABLE		• • • •		NOT APPLICABLE	•			
DIVISION 02: SITE WORK				DIVISION 15: MECHANICAL			TBD	
BARRICADE			PER LANDLORD'S REQUIREMENTS	HVAC EQUIPMENT ●				
BARRICADE GRAPHICS				DUCTWORK •				
DEMOLITION				EXHAUST HOOD		GC TO INSTALL. ELEC/MECH CONTRACTOR TO INSTALL CONTROL BOX. CAPTIVEAIRE TO INSTALL AN:	SUL FOUTD	
						GC TO INSTALL. ELECTRICAL CONTRACTOR TO INSTALL CONTROL BOX. CAPTIVEAUX TO INSTALL AND	SIGNAGE (STOREFRONT)	
DIVISION 03: CONCRETE				TOILET ROOM EXHAUST FANS	•			
CUTTING AND PATCHING	• •		INCLUDES ALL REQUIRED ELECTRICAL, DATA AND SENSORMATIC CUTTING	BASEMENT STORAGE DIFFUSERS	•		CONTACT	
DIVISION 04: MASONRY				SALES FLOOR DIFFUSERS	• •		TBD	
FIELD STONE	•			RELOCATION OF DIFFUSERS	• •	SEE MECH. DWG'S		
STOREFRONT STONE CLEANING	•			WASHROOM DIFFUSERS	•			
DIVISION 05: METALS				AIR CONDITIONING EQUIPMENT SERVICING				
STRUCTURAL FRAMING	• •			RELOCATION OF THERMOSTATS	• •		CDADUICC	
STOREFRONT PANEL SYSTEM	• •			SPRINKLER MAIN AND SYSTEM	• •		GRAPHICS	
STRUCTURAL SUPPORT FOR HANG BARS	•						CONTACT:	
METAL FIXTURES			SEE EQUIPMENT AND FURNISHINGS, DIVISION 12	PLUMBING			CONTACT:	
STRUCTURAL COLUMNS / ANGLES				PLUMBING FIXTURES			TBD	
DIVISION 06: WOOD & PLASTICS					<b>.</b>			
ROUGH CARPENTRY				FLOWDING STITLINS				
				GREASE INTERCEPTORS				
BLOCKING	• •		COORDINATE WITH MILLWORK VENDOR AND METAL VENDOR	WATER HEATER	• • •		P.O.S / DATA	
FINISH CARPENTRY	• •							
							CONTACT	
DIVISION 07: THERMAL & MOIST	TURE CONTROL						TDD	
CAULK & SEALANTS	• •						TBD	
DIVISION 08: DOORS, WINDOWS	S & GLASS							
STOREFRONT GLAZING	•			DIVISION 16: ELECTRICAL				
STOREFRONT SYSTEM	•			ELECTRICAL PANELS •	• •		NATI LIMODIC	
STOREFRONT HARDWARE	•			ELECTRICAL DISTRIBUTION			MILLWORK	
HARDWARE	• •			MODIFICATION OF DISTRIBUTION				
COORDINATION OF MILLWORK VENDOR SUPPLIED DOORS AND HARDWARE				OUTLETS, SWITCHES, WIRING			CONTACT	
SUPPLIED DOORS AND HARDWARE				MODIFICATIONS TO OUTLETS, SWITCHES			TBD	
DIVITATION OF EINITAINE				AND WIRING				
DIVISION 09: FINISHES				CONDUIT AND J-BOXES	• •			
PATCHING OF DEMISING WALL	•			MODIFICATIONS TO CONDUIT AND J-BOXES	• •			
GYPSUM BOARD SYSTEM/FURR OUT (DEMISING WALLS)	•			TOILET ROOM LIGHT FIXTURES	•			
METAL STUDS AND FRAMING (INTERIOR PARTITIONS)	• •			SALES FLOOR LIGHTING FIXTURES	• •		SECURITY	
GYPSUM BOARD SYSTEM (INTERIOR PARTITIONS)	• •			RELOCATION OF SALES FLOOR LIGHTING FIXTURES	•		SECORITI	
METAL STUDS AND FRAMING (INTERIOR CEILINGS)	•			EXIT SIGNAGE LIGHTING FIXTURES	• •   •		CONTACT	
WOOD FLOORING	•			RELOCATION OF EXIT SIGNAGE LIGHTING FIXTURES	•			
CARPET	•			EMERGENCY RECESSED LIGHT FIXTURES	• •		TBD	
CARPET PADDING	•			WALL SCONCES	• •			
CORK FLOORING	•							
CERAMIC TILE								
FIBERGLASS REINFORCEMENT PANEL				STOREFRONT SIGNAGE LIGHTING, WIRING AND TIMECLOCK				
				CONDUIT, J-BOXES AND PULL WIRES FOR			FOOD SERVICE EQUIPMENT	
FLOORING TRANSITIONS				DATA/POS VENDOR				
WALL BASE	• •			POS SYSTEM	• •		CONTACT:	
INTERIOR PAINT	•			COORDINATION OF DATA/POS VENDOR  CONDUIT, J-BOXES AND PULL WIRES FOR	• • •		C&T Design and Equipment Co. Chris Monico, CFSP	
INTERIOR WALL COVERING	• •			CONDUIT, J-BOXES AND PULL WIRES FOR SECURITY VENDOR	• •		2750 Tobey Dr.	
WOOD PANELS AND TRIM	•			SECURITY SYSTEM	•		Indianapolis, IN, 46219 T. (317) 644-7833	
COORDINATION OF WOOD PANELS AND TRIM	•			COORDINATION OF SECURITY VENDOR	•		T. (317) 644-7833 M. (317) 201-2477	
DIVISION 10: MISCELLANEOUS SI	SPECIALTIES			CONDUIT, J-BOXES AND PULL WIRES FOR SENSORMATIC VENDOR	•			
EXTERIOR SIGNAGE	•		GC TO SUPPLY POWER FOR SIGNAGE AS REQUIRED; COORDINATE WITH SIGN VENDOR	SENSORMATIC SYSTEM	•		FIVTUDE	
INTERIOR SIGNAGE	• •			COORDINATION OF SENSORMATIC VENDOR	•		FIXTURE	
GRAPHICS		•	•	CONDUIT, J-BOXES AND PULL WIRES FOR AUDIO VENDOR				
DIVISION 11 & 12: FURNITURE, F	FIXTURE & EQUIPMENT			AUDIO VENDOR  AUDIO SYSTEM	•	•		
KITCHEN EQUIPMENT		• •	SEE EQUIPMENT SCHEDULES ON SHEET A3.0	COORDINATION OF AUDIO SYSTEM	•			
				ALARM SYSTEM				
UNLOADING KITCHEN EQUIPMENT								
INSTALLING KITCHEN EQUIPMENT				TELEPHONE SERVICE CONDUIT  MODIFICATIONS TO PHONE SERVICE				
WALK-IN COOLER/FREEZER		•   •		CONDUITS	• •			
UNLOADING OWNER PROVIDED FIXTURES	•							
INSTALLING OWNER PROVIDED FIXTURES	•		SEE WOOD AND PLASTICS: BLOCKING, DIVISION 6					
CONDIMENT STATION	•							
FRONT COUNTERTOP & COUNTER WALLS	• •							
UNLOADING OWNER PROVIDED FURNITURE	<u> </u>							
INSTALLING OWNER PROVIDED FURNITURE	•							No.

# GENERAL NOTE:

 GC TO VERIFY ALL FIELD DIMENSIONS AND CONTACT PROJECT ARCHITECT WITH ANY SITE DISCREPANCIES.
 FIRE RATED WOOD IS REQUIRED FOR ALL BLOCKING.

# IMPORTANT BID NOTE:

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# SILHOUETTE

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STRUCTURAL CONSULTANT: Yun Associates, LLC Bill Yun 1775 K St, NW Suite 220 Washington, DC, 20006 T. (202) 849-3075 byun@yunassociates.com

# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

INO.	Description	Date				
	30% SUBMITTAL	06/07/2019				
	90% SUBMITTAL	08/08/2019				

# DIVISION OF WORK SCHEDULE

 Project number
 2019-033

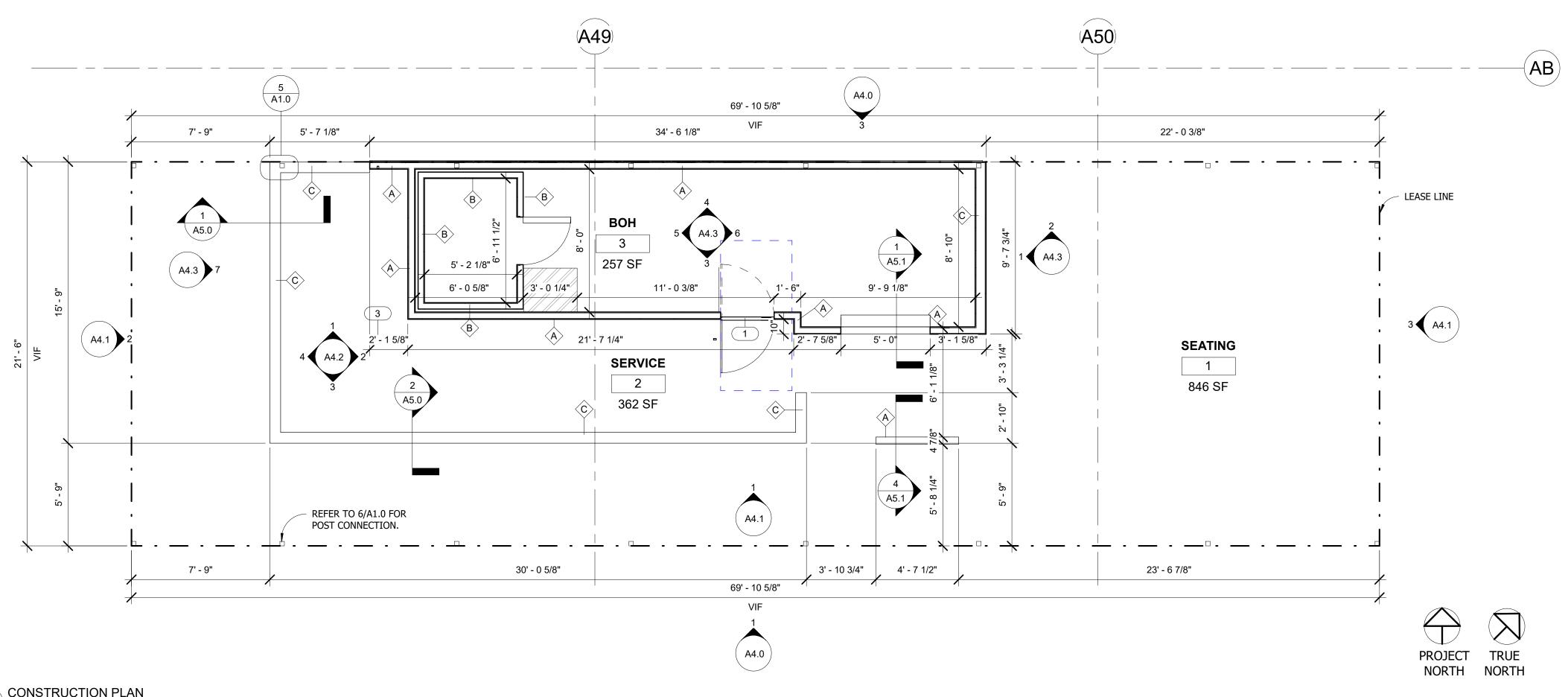
 Date
 08-07-19

 Drawn by
 LV

 Checked by
 SC

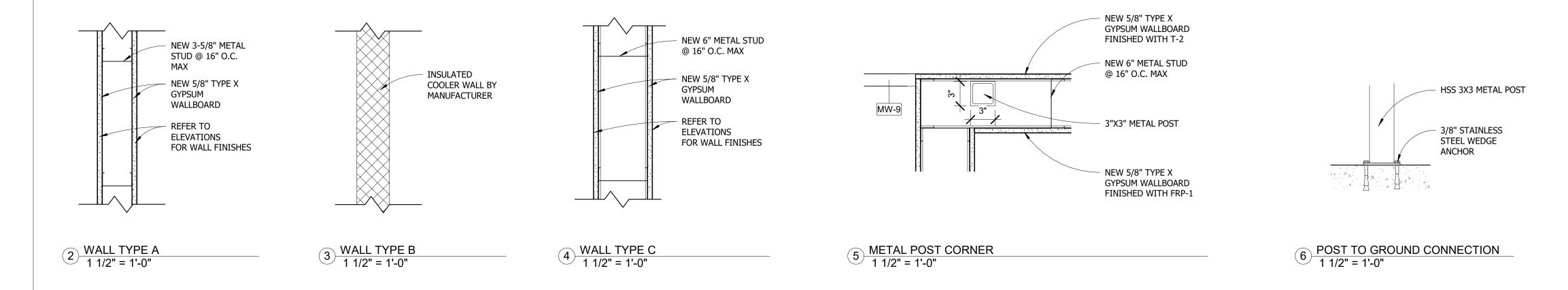
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Scale



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

								DOO	R SCHEDULE					
DOOR							Door					Furnished	Installed	
NUMBER	Location	Description	Manufacturer	Model	Width	Height	Thickness	Finish	Frame Finish	Hardware	Comments	Ву	Ву	Count
1	ВОН	DOUBLE SWING ELIASON DOOR	ELIASON	SCP-3	3' - 0"	7' - 0"	0' - 1"	STAINLESS STEEL	STAINLESS STEEL	SWING SYSTEM, PROVIDE LOCK	STAINLESS STEEL EDGE TRIM AND HINGE COVERS, ADA WINDOW 14"X16" SCRATCH RESISTANT ACRYLIC SET IN BLACK RUBBER MOLDING. AVAILABLE IN BOTH STANDARD AND FLUSH STYLES, PROVIDE LOCK BY MANUFACTURER	GC	GC	1
2	BACK BAR	ROLL DOWN SECURITY GRILLE		SLIM COUNTER SHUTTER	19' - 0"	6' - 9"		CLEAR ANODIZED			INSTALL PER MFR. RECOMMENDATIONS	GC	GC	1
3	BACK BAR	ROLL DOWN SECURITY GRILLE		SLIM COUNTER SHUTTER	9' - 8"	6' - 9"		CLEAR ANODIZED			INSTALL PER MFR. RECOMMENDATIONS	GC	GC	1
5	ВОН	PASS THRU WINDOW SECURITY SHUTTER	MOBILFLEX	COUNTER SHUTTER	5' - 0"	2' - 2"		CLEAR	STAINLESS STEEL		INSTALL PER MFR. RECOMMENDATIONS	GC	GC	1



#### **WALL TYPE NOTE:**

1) GC TO PROVIDE 5/8" DENSHIELD BEHIND TILE AND AT WET AREAS FOR WALLS REQUIRED TO BE FIRE

2) GC TO PROVIDE 12" HIGH CEMENT BOARD ON BOTTOM 12" OF ALL BOH WALLS, UNLESS REQUIRED TO BE FIRE RATED.

3) FOR NON RATED WALLS BEHIND COOLER WALLS, GC TO PROVIDE CEMENT BOARD SUBSTRATE WITH FRP WALL FINISH. IF WALL IS RATED BEHIND COOLER, PROVIDE TYPE X GYPSUM WALL BOARD WITH FRP

# **WATERPROOF MEMBRANE NOTE:**

GC TO PROVIDE CONTINUOUS WATERPROOF MEMBRANE IN WET AREAS AND WRAP 6" UP WALLS. MEMBRANE TO CONTINUE UNDER ALL INTERIOR PARTITIONS, AND GC IS TO USE MFR. RECOMMENDED SEALANT AT ALL TACK DOWN LOCATIONS. MEMBRANE IS TO BE NOBLESEAL TS, PROVIDE MFR. CORNERS, USE COMPLETE SYSTEM.

#### **GENERAL NOTE:**

1) GC TO VERIFY ALL FIELD DIMENSIONS AND CONTACT PROJECT ARCHITECT WITH ANY SITE DISCREPANCIES. 2) FIRE RATED WOOD IS REQUIRED FOR ALL BLOCKING.

# **IMPORTANT BID NOTE:**

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SHOULD THE CONTRACTOR FAIL TO PERFORM THIS FUNCTION.

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# STACKED PICKLE

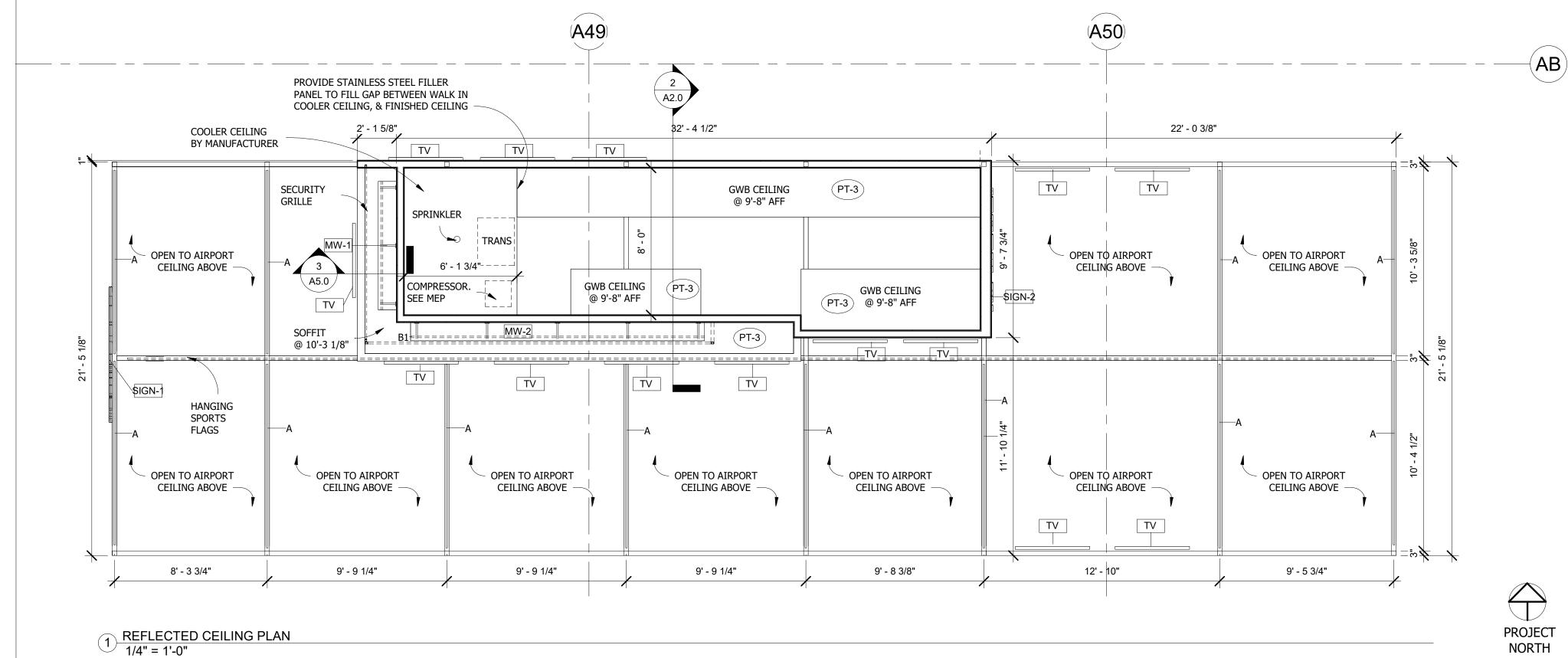
INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

No.	Description	Date
	30% SUBMITTAL	06/07/201
	90% SUBMITTAL	08/08/201

# CONSTRUCTION PLAN, SCHEDULE & **DETAILS**

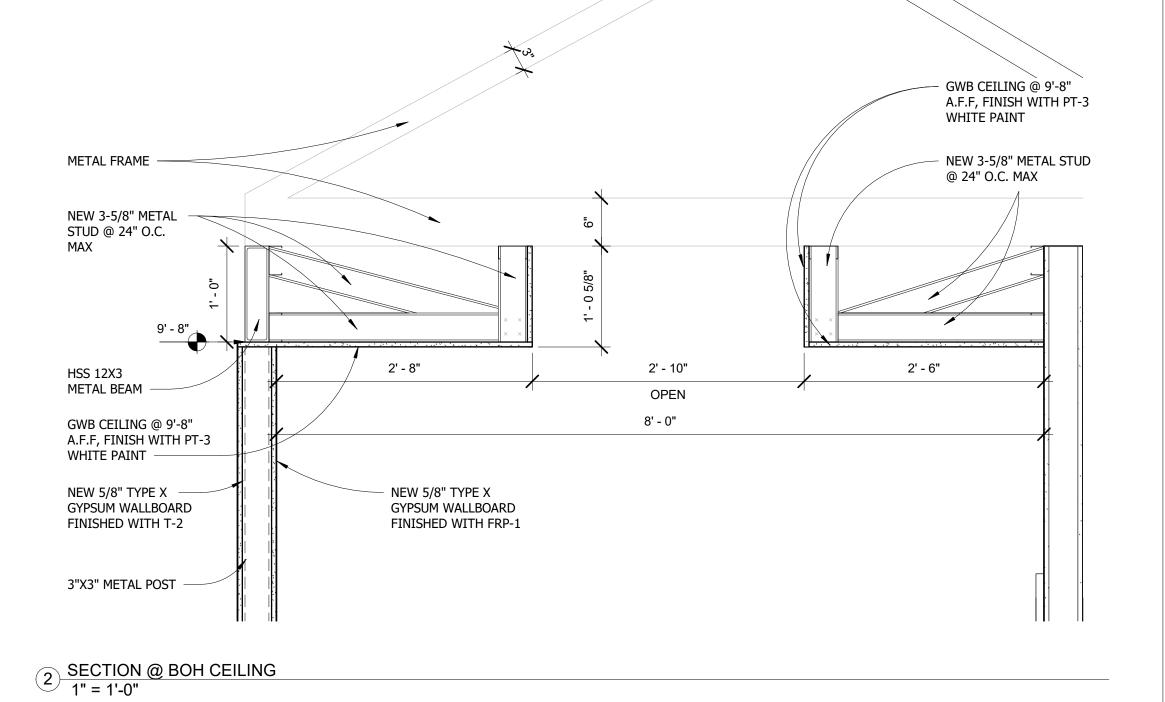
2019-033
08-07-19
LV
SC

As indicated Scale



	LIGHTING FIXTURE SCHEDULE									
Type Mark		Manufacturer	Model	Lamp	Wattage	Vendor	Comments	Furnished	Installed	Count
A	LED CHANNEL LIGHT	EDGE LIGHTING	CIRRUS CHANNEL S1, SQUARE 1" LENS, 120" LENGTH	LED	5W / FT	LIGHTOLOGY, ASHLEY RUTTER, T: 312-229-7417 E: ARUTTER@LIGHTOLOGY.COM	FRONT OF HOUSE	GC	GC	12
B1	FLEXIBLE UNIFORM LIGHTING	ARANI	FT-05W-40K-192IN	LED		LIGHTOLOGY, ASHLEY RUTTER, T: 312-229-7417 E: ARUTTER@LIGHTOLOGY.COM	FRONT OF HOUSE	GC	GC	3
B2	FLEXIBLE UNIFORM LIGHTING	ARANI	FT-05W-40K-84IN	LED	5W / FT	LIGHTOLOGY, ASHLEY RUTTER, T: 312-229-7417 E: ARUTTER@LIGHTOLOGY.COM	FRONT OF HOUSE	GC	GC	2
В3	FLEXIBLE UNIFORM LIGHTING	ARANI	FT-05W-40K-54IN	LED	5W / FT	LIGHTOLOGY, ASHLEY RUTTER, T: 312-229-7417 E: ARUTTER@LIGHTOLOGY.COM	ADA BAR	GC	GC	1
B4	FLEXIBLE UNIFORM LIGHTING	ARANI	FT-05W-40K-117IN	LED	5W / FT	LIGHTOLOGY, ASHLEY RUTTER, T: 312-229-7417 E: ARUTTER@LIGHTOLOGY.COM	ADA BAR	GC	GC	4





# **GENERAL NOTE:**

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TRUE

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# REFLECTED CEILING PLAN

 Project number
 2019-033

 Date
 08-07-19

 Drawn by
 LV

 Checked by
 SC

A2.0

Scale As indicated

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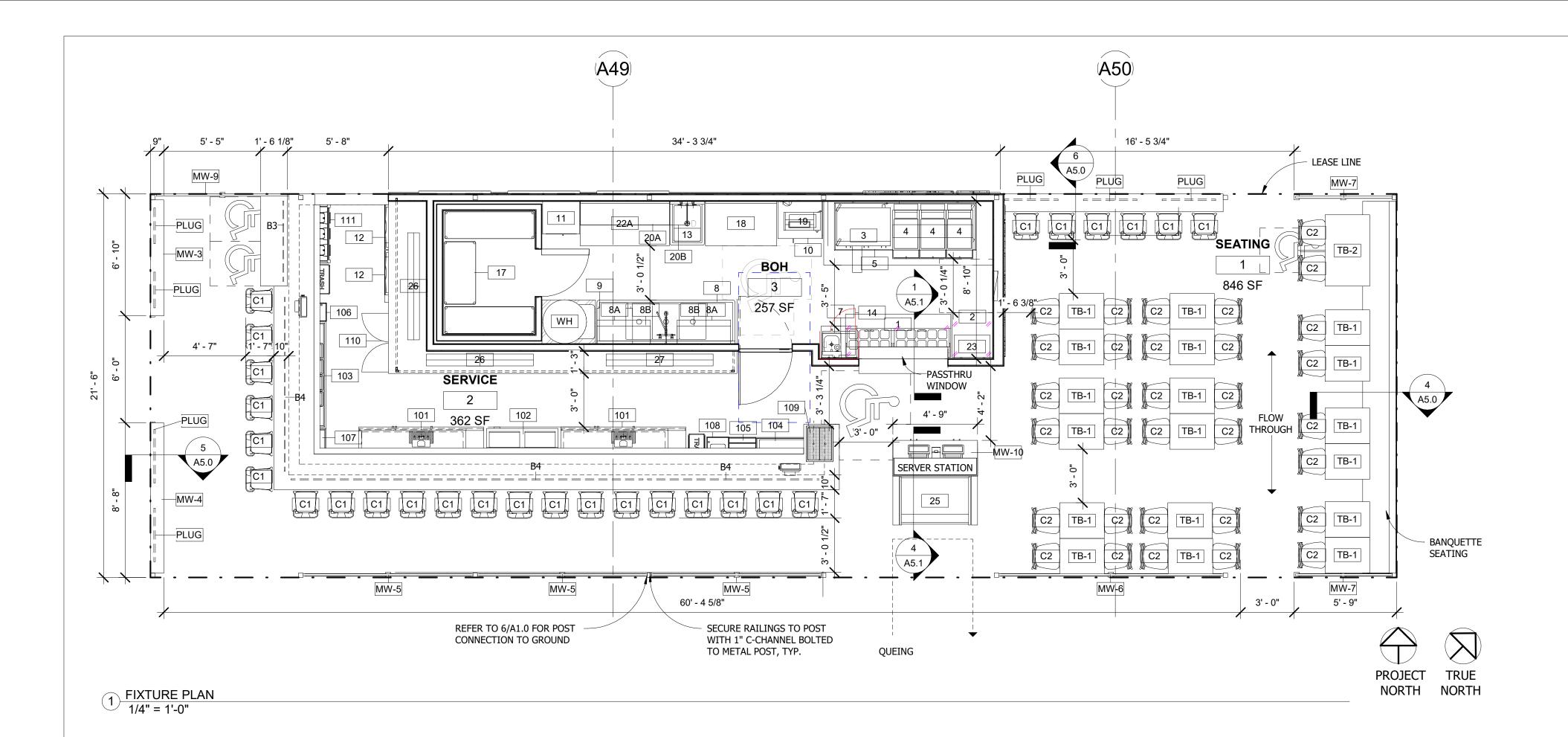
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# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

No.	Description	Date
	30% SUBMITTAL	06/07/20
	90% SUBMITTAL	08/08/20



		EG	QUIPMENT SCHEDULE				
Type Mark	Description	Manufacturer	Model	Comments	Furnished by	Install by	Count
1	SANDWICH/SALAD PREP-REFRIGERATOR	Turbo Air	JST-72-N		GC	GC	1
2	UNDERCOUNTER FREEZER	Turbo Air	PUF-28-N		GC	GC	1
3	GRIDDLE, ELECTRIC 36"	Star Manufacturing	536CHSF		GC	GC	1
4	FRYER, 40LBS - COUNTERTOP TOP	Vulcan	CEF40		GC	GC	3
5	REFRIGERATED EQUIPMENT STAND	TRUE FOOD SERVICE EQUIPMENT, INC.	TRCB-96		GC	GC	1
6	EXHAUST HOOD SYSTEM - VENTLESS	WELLS	GK-96		GC	GC	1
7	HANDSINK	Krowne Metal	HS-31		GC	GC	1
8	THREE COMPARTMENT SINK	John Boos	3B18244-2D18		GC	GC	1
8A	WALL SHELF, 36"	John Boos	BHS1636		GC	GC	2
8B	WALL SHELF, 36"	John Boos	BHS1236		GC	GC	2
9	UNDERCOUNTER DISHMACHINE	Champion	UH-230B(100)		GC	GC	1
10	CONVECTION OVEN, ELECTRIC	Blodgett	CTBR SINGLE		GC	GC	1
11	MOP SINK CABINET	JOHN BOOS	PBJC-252284-2D		GC	GC	1
12	UNDERCOUNTER ICE MACHINE W/ FILTER	Manitowoc Ice	MANITOWOC ARCTIC PURE AR-10000		GC	GC	2
13	ONE COMPARTMENT SINK	John Boos & Co.	1B18244, B0231		GC	GC	1
14	MICROWAVE OVEN	Amana	RCS10TS, JOHN BOOS BMS2024-X		GC	GC	1
17	WIRE SHELVING	CROWN BANDS, LLC	FF1860G		GC	GC	1
18	WORK TABLE, 48"	JOHN BOOS	ST6R5-3048SSK		GC	GC	1
19	TOASTER, CONVEYOR	APW Wyott	M-83		GC	GC	1
20A	WALL SHELF, 60"	John Boos	EWS8-1660		GC	GC	1
20B	WALL SHELF, 72"	John Boos	EWS8-1672		GC	GC	1
21	WIRE WALL SHELF	CROWN BRANDS	FWB18SG		GC	GC	1
22A	WORK TABLE	JOHN BOOS	ST6R5-3060SBK		GC	GC	1
23	WALL SHELF, 16"	John Boos	EWS8-1624		GC	GC	1
25	GRAB N GO CASE	Structural Concepts	B4732		GC	GC	1
26	Two Tier Lighted Merchandise Display	Perlick	LMD2-72L		GC	GC	2
27	Two Tier Lighted Merchandise Display	Perlick	LMD2-72R		GC	GC	1
101	DRAFT BEER COOLER	KROWN METAL	DB84		GC	GC	2
102	BOTTLE COOLER	Krowne Metal	MC48B		GC	GC	1
103	UNDERBAR FOUR COMPARTMENT SINK	JOHN BOOS	EUB4S72SL-2D		GC	GC	1
104	UNDERBAR ICE BIN	JOHN BOOS	EUBIB-3618CP10		GC	GC	1
105	UNDERBAR BOTTLE DISPLAY	JOHN BOOS	EUBLD-1818		GC	GC	1
106	UNDERBAR SINK	JOHN BOOS	EUBDS-1218STD		GC	GC	1
107	UNDERBAR DRAINBOARD	JOHN BOOS	EUBD-2418		GC	GC	1
108	UNDERBAR SINK	JOHN BOOS	EUBDS-1518STD		GC	GC	1
109	DRIP TROUGH - COUNTERTOP	ADVANCE TABCO	DP-1824		GC	GC	1
110	REFRIGERATED BACK BAR CABINET	KROWNE METAL	NS52		GC	GC	1
111	BAG-N-BOX	CUSTOM	CUSTOM		BY OTHERS	BY OTHERS	1
WH	WATER HEATER	SEE MEP DRAWINGS	SEE MEP DRAWINGS		GC	GC	1

				MILLWORK SCHEDULE			
Type Mark	Description	Manufacturer	Model	Comments	Furnished	Installed	Coun
FOOT RAIL	METAL FOOT RAIL	KEGWORKS	CUSTOM	BRUSHED STAINLESS STEEL #920-3S PIPE 2" OD WITH ROUNDED CENTER POST & DOMED END CAP #S937-2. BRACKET: NS912-2 REP: MIKE: 716.362.9212 EXT 194, MDOHERTY@KEGWORKS.COM	GC	GC	1
MW-1	BACK BAR SHELF	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-2	BACK BAR SHELF	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-3	DRINK RAIL	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-4	DRINK RAIL	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-5	RAILING	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	3
MW-6	RAILING	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-7	RAILING	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	3
MW-8	COUNTER SEATING	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-9	RAILING	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1
MW-10	SERVER STATION	CUSTOM	CUSTOM	SEE SHEET A3.1 FOR DETAILS	GC	GC	1

MISCELLANEOUS EQUIPMENT SCHEDULE							
Type Mark	Description	Manufacturer	Model	Comments	Furnished	Installed	Count
EP-2	CUSTOM	TBD	SEE MEP DRAWINGS		GC	GC	2
OUTLET	DUAL USB OUTLET	LEVITON	T5632 (OR SIMILAR), fINISH COLOR BLACK ON DARK SURFACES, FINISH WHITE ON LIGHT SURFACES	LOCATED AT BANQUETTE (BLACK) AND BAR FRONT (WHITE)	GC	GC	10
LUG	PLUG MOLD	LEGRAND	2000 STEEL PLUGMOLD / FINISH: BLACK / LENGTH: 3'-0"	INSTALLED UNDER THE DRINKRAIL TOP ON MW-6	GC	GC	7
POS	CUSTOM	TBD	TBD		OWNER	OWNER	4
PRNT	RECEIPT PRINTER	TBD	TBD		OWNER	OWNER	1
RANS	CUSTOM	TBD	TBD		GC	GC	1
V	LED TELEVISION	SAMSUNG	55" DISPLAY WITH FULL MOTION WALL MOUNT WITH TILT, SWIVEL AND ARTICULATING ARM	SEATING AREA	OWNER	GC	14
WH	WATER HEATER	AO SMITH	GOLD Xi SERIES DVE-120		GC	GC	1

**GENERAL NOTE:** 

			FURNITURE SCHEDULE					
Mark	Description	Manufacturer	Model	Comments	Vendor	Furnished	Installed	Count
C1	BAR STOOL	PLYMOLD	CALAIS LOW BACK BAR STOOL - GREEN B8304GR	LOCATED AT BAR AREA	CONTRACT FURNITURE, GEORGE AGCAOILI, P:(310) 544-2382, george@contractfurniture.com	GC	GC	27
C2	DINING CHAIR	Grand Rapids Chair Company	SHERMAN CHAIR / METAL FINISH: YELLOW GREEN / WOOD FINISH: STORM	LOCATED AT DINING AREA	GRAND RAPIDS CHAIR CO., LEESA ARNTZ, P:(616) 389-1341,larntz@grandrapidschair.com	GC	GC	32
TB-1	24 X 30 DINING TABLE		RECTANGULAR ANTIQUE ASH TABLE TOP. TABLETOP: DARK FLAMED FINISH / Base - 17" ROUND TABLE BASE 910 SERIES, SATIN BLACK	LOCATED AT DINING AREA	CONTRACT FURNITURE, GEORGE AGCAOILI, P:(310) 544-2382, george@contractfurniture.com	GC	GC	18
TB-2	DINING TABLE (ADA)	CONTRACT FURNITURE	30x48" RECTANGULAR ANTIQUE ASH TABLE TOP. FINISH: DARK FLAMED FINISH. BASE: (2) MTS SEATING #1502-2LS IN BLACK FINISH, OR EQUAL	LOCATED AT DINING AREA	CONTRACT FURNITURE, GEORGE AGCAOILI, P:(310) 544-2382, george@contractfurniture.com	GC	GC	1

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# FIXTURE PLAN & SCHEDULES **IMPORTANT BID NOTE:**

2019-033 Project number 08-07-19 Drawn by Checked by

Scale 1/4" = 1'-0"

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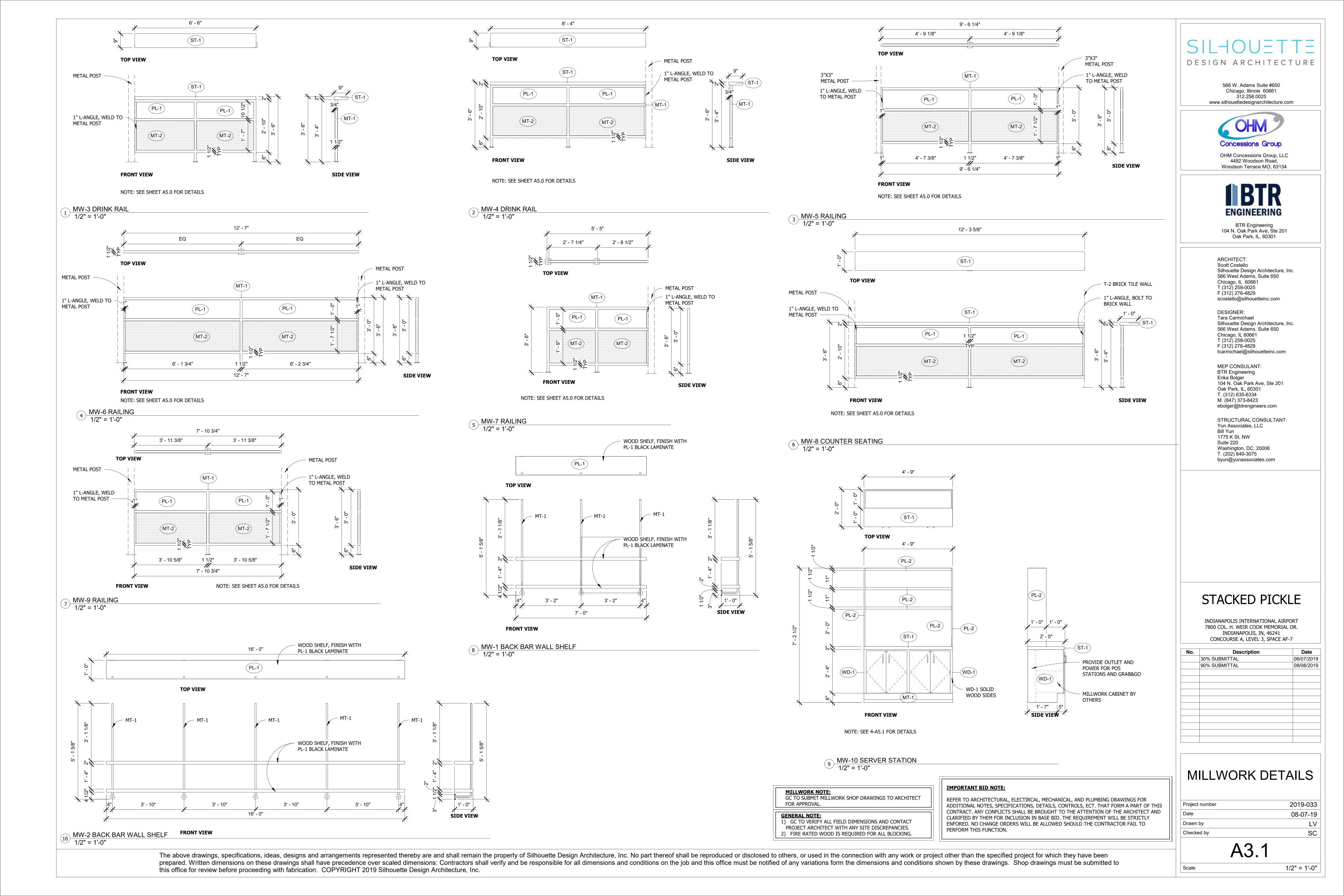
MEP CONSULANT: BTR Engineering Erika Bolger 104 N. Oak Park Ave, Ste 201 Oak Park, IL, 60301 T. (312) 635-6334 M. (847) 373-8423 ebolger@btrengineers.com

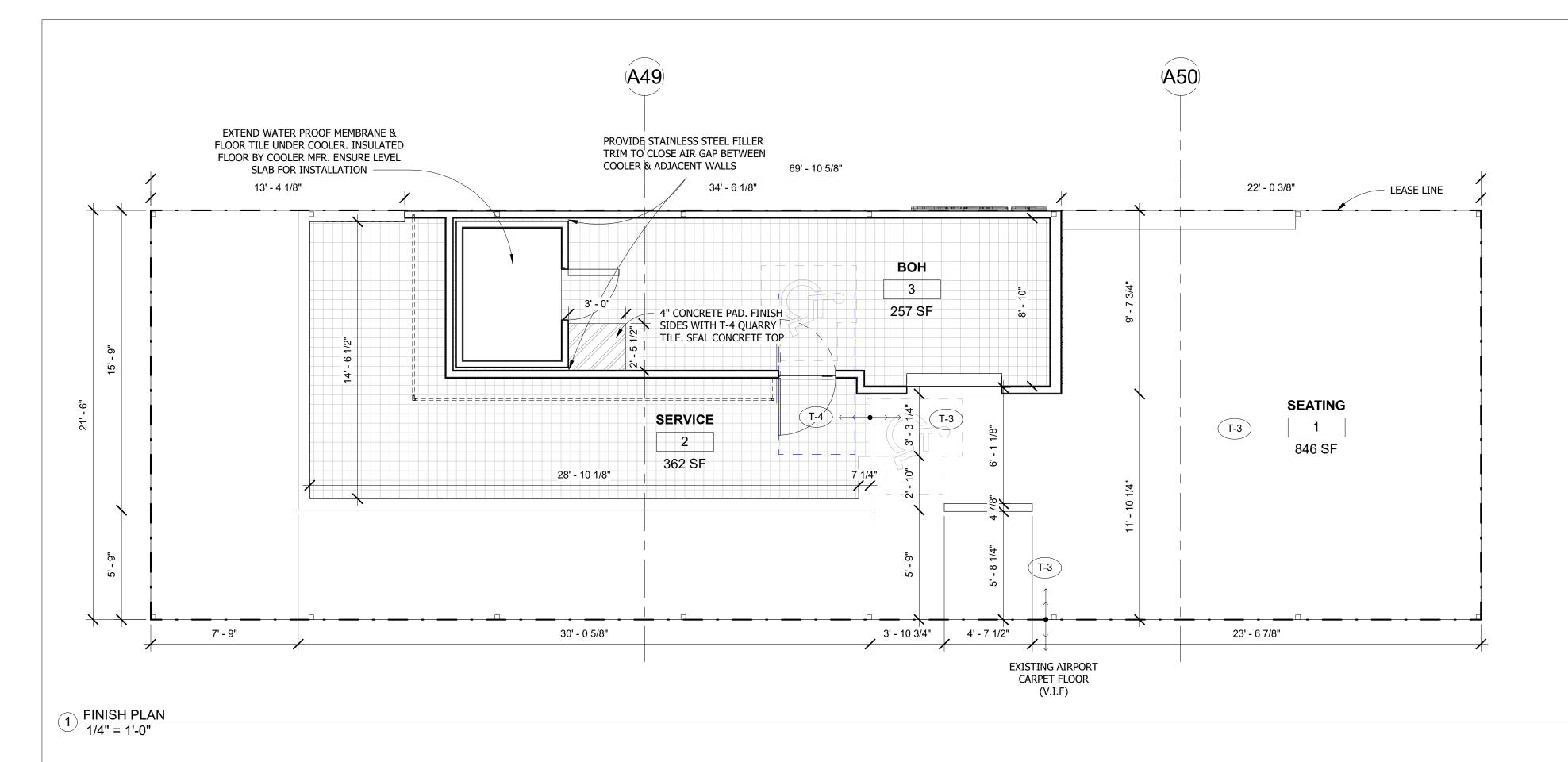
STRUCTURAL CONSULTANT: Yun Associates, LLC Bill Yun 1775 K St, NW Suite 220 Washington, DC, 20006 T. (202) 849-3075 byun@yunassociates.com

# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

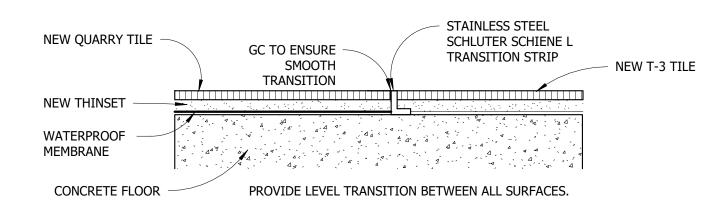
30% SUBMITTAL	06/07/2019
90% SUBMITTAL	08/08/2019





EXISTING AIRPORT CARPET	GC TO ENSURE SMOOTH TRANSITION	STAINLESS STEEL SCHLUTER SCHIENE L TRANSITION STRIP	— NEW T-3 TILE
			NEW THINSET  WATERPROOF MEMBRANE
CONCRETE FLOOR	PROVIDE LEVEL TRANSIT	ION BETWEEN ALL SURFACES.	

2 EXISTING CARPET - TILE TRANSITION
3" = 1'-0"



3 NEW TILE- QUARRY TILE TRANSITION 3" = 1'-0"

	ROOM FINISH SCHEDULE							
	Room Name	Area	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Comments
1	SEATING	846 SF	T-3	MT-1	T-1, T-2	OPEN	OPEN	
2	SERVICE	362 SF	T-4	T-4	FRP-1, T-1	OPEN	OPEN	
3	ВОН	257 SF	T-4	T-4	FRP-1	ACT-1	9'-10"	

# NO SUBSTITUTIONS. USE SPECIFIED VENDORS. GC TO SUBMIT MATERIAL SAMPLES TO ARCHITECT FOR APPROVAL.

				FINISH SCHEDULE			
Mark	Description	Manufacturer	Model	Comments	Vendor/Contact	Supplied	Installed
ACT-1	ACOUSTIC CEILING TILE 24 x 24	ARMSTRONG	CLEANROOM VL #868 HEAVY DUTY 24x24" PANLES, COLOR: WHITE, 15/16" PRELUDE XL SUSPENSION GRID, COLOR: WHITE. SHALL BE SMOOTH AND WASHABLE	ВОН	ARMSTRONG, TABITHA RUIZ-McCARTH, P: (312) 282-0759, tsruiz@armstrongceilings.com	GC	GC
<del>-</del> -1	BLACK UPHOLSTERY	DESIGN TEX	MASQUERADE 2383-802. COLOR: TAR	BANQUETTE SEATING	ALESHA KRAESZIG, 312.597.0341, AKRAESZIG@DESIGNTEX.COM	GC	GC
RP-1	FIBERGLASS REINFORCEMENT PANEL	MARLITE	PEBBLED SURFACE P 199 BRIGHT WHITE	BAR WALL EMPLOYEE SIDE, BOH	MARLITE	GC	GC
MT-1	BLACK METAL	CUSTOM	POWDERCOATED BLACK METAL	METAL BASE, STOREFRONT RAILING, LIQUOR DISPLAY SHELVES	CUSTOM, BRANDNER DESIGN/JEFF BRANDNER E: jeff@brandnerdesign.com, P: 406-582-0711	GC	GC
ИТ-2	METAL MESH	MCNICHOLS	56001213SA - CS/HR 1/2 #13 FIT	STOREFRONT RAILING	McNICHOLS, Shiela, P: (800) 237-3820, sales@mcnichols.com	GC	GC
PL-1	WOOD LAMINATE	FORMICA	5887-NT MILLENIUM OAK - NATURELLE FINISH	STOREFRONT RAILING	ELMWOOD RECLAIMED TIMBER, PATRICK MCDANIEL, P:(816) 779-730, mcdaniel@elmwoodreclaimedtimber.com	GC	GC
PL-2	BLACK LAMINATE	WILSONART	BLACK 1595-60 MATTE FINISH	SERVER STATION, GRAB&GO BUILT-IN	WILSONART, ROMANA MILLS, P: (614) 477-4932. ROMANA.MILLS@WILSONART.COM	GC	GC
PT-1	BLACK PAINT	BENJAMIN MOORE	2120-10 JET BLACK		BENJAMIN MOORE	GC	GC
PT-2	GREEN PAINT	BENJAMIN MOORE	2028-20 DOUGLAS FIR - PINO DE OREGON	GREEN SOFFIT	BENJAMIN MOORE	GC	GC
PT-3	WHITE PAINT	BENJAMIN MOORE	CHANTILLY LACE 2121-70	GWB CEILING FINISH, BOH	BENJAMIN MOORE	GC	GC
ST-1	QUARTZ COUNTERTOP	WILSONART	VESUVIUS Q1017	BAR COUNTER, DRINK RAIL, BAR HEIGHT COUNTER	ROMANA MILLS. 614.477.4932. ROMANA.MILLS@WILSONART.COM	GC	GC
Γ-1	BLACK TILE	TRANSCERAMICA	ADAMAS - FINISH: ATER	BACK BAR WALL	TRISTIN ECK. 773.396.3243. TECK@TRANSCERAMICA.COM	GC	GC
Γ-2	BRICK TILE	ELM SURFACES	MEDITERRANEA - CHICAGO STATE STREET 4X8 MEDCHST48	BACK WALL	EUGENIO MEGNA. 312.342.8553. EMEGNA@ELMSURFACES.COM	GC	GC
Γ-3	FLOOR TILE	PORCELAINGRES	JUST CEMENTI - LIGHT GREY, 24"X12" FINISH: NEUTRAL	FLOOR TILE	TRANSCERAMICA, TRISTIN ECK, P:(773) 396-3243, teck@transceramica.com	GC	GC
Γ-4	QUARRY TILE & COVE BASE	DALTILE	QUARRY 0N46 SHADOW GRAY A0, GROUT MAPEI COLOR # 11 SAHARA BEIGE 3/8"	FLOOR TILE (SERVICE AREA AND BOH)	DALTILE, NATIONAL ACCT: NA-002258, ANN. ANN.DAPRILE@DALTILE.COM		
WD-1	SOLID WOOD	CUSTOM	SOLID WOOD TO MATCH PL-1 FORMICA WOOD LAMINATE - MILLENIUM OAK - NATURELLE FINISH	BANQUETTE, GRAB&GO, SERVER STATION	CUSTOM	GC	GC

NOTE: ALL FINISHES TO BE LOW EMITTING

# GENERAL NOTE:

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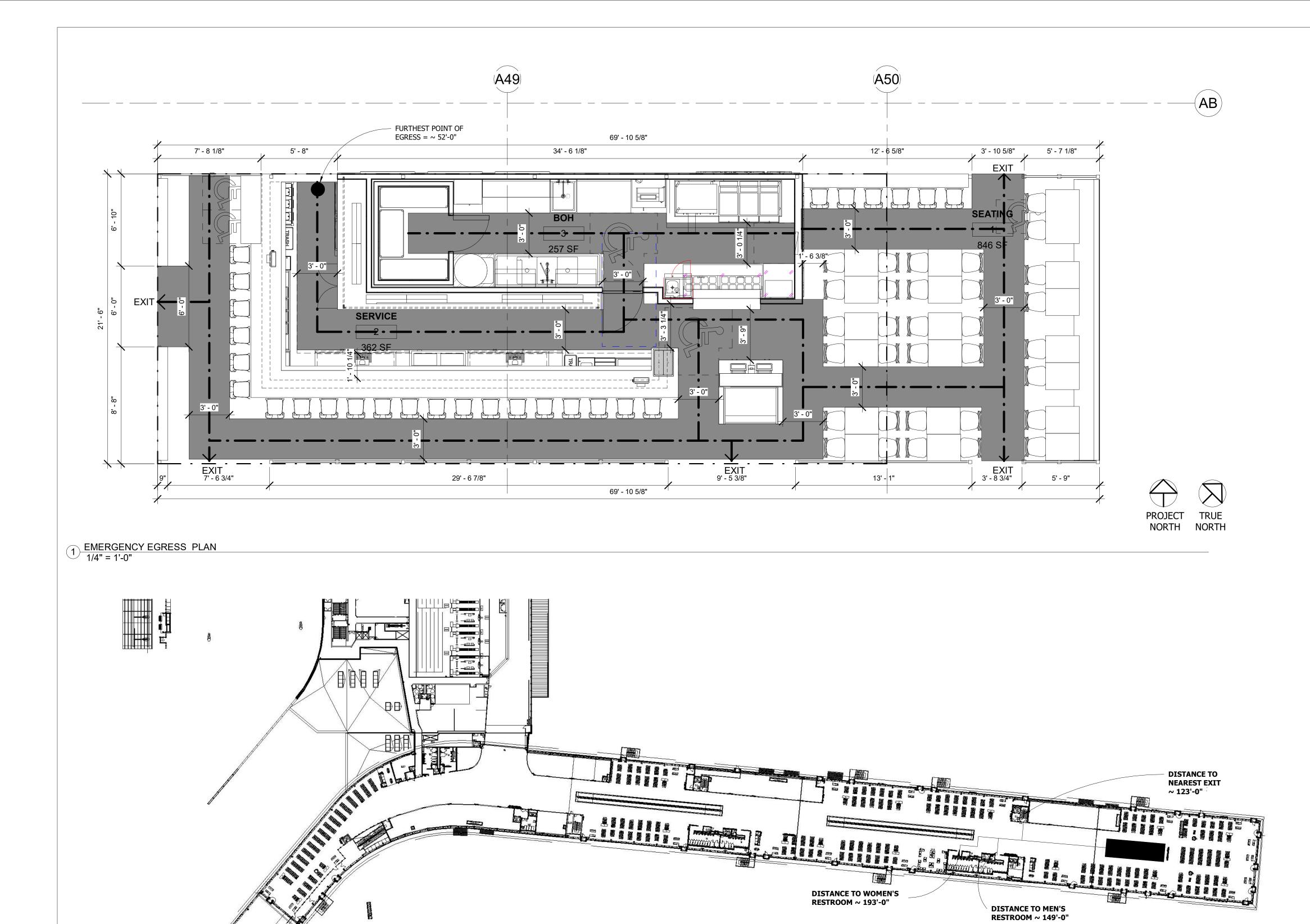
No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/08/2019

# FINISH PLAN & SCHEDULES

Project number	2019-033
Date	08-07-19
Drawn by	LV
Checked by	SC

A3.2

ale As indicated



2 CONCOURSE MAP 1/64" = 1'-0"

NOTE: EGRESS FURTHEST DISTANCE TO EXIT TENANT SPACE =  $\sim 52'-0''$ 

PLEASE REFER TO CONCOURSE MAP FOR FURTHEST DISTANCE FROM TENANT SPACE TO NEAREST EXIT STAIRS, AND RESTROOMS.

# **GENERAL NOTE:**

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110.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/08/2019

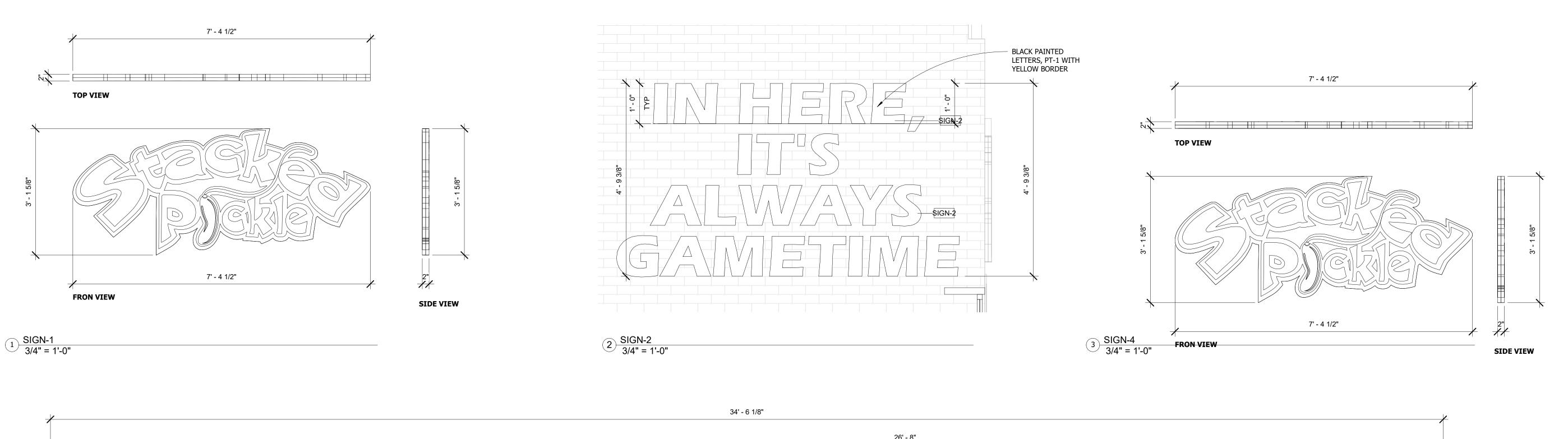
# **EMERGENCY** EGRESS PLAN

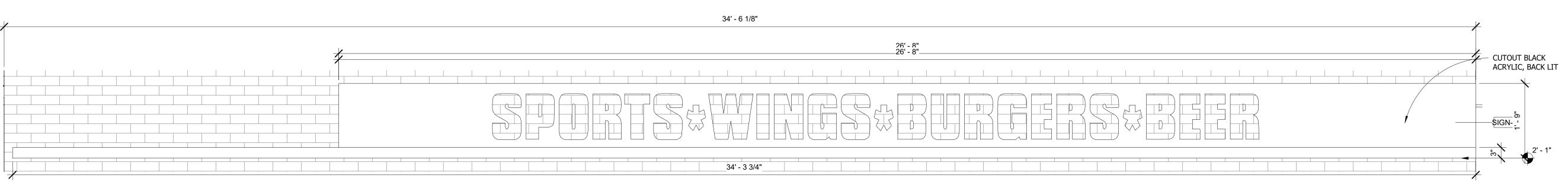
2019-033 Project number 08-07-19 Drawn by Checked by

A3.3

Scale

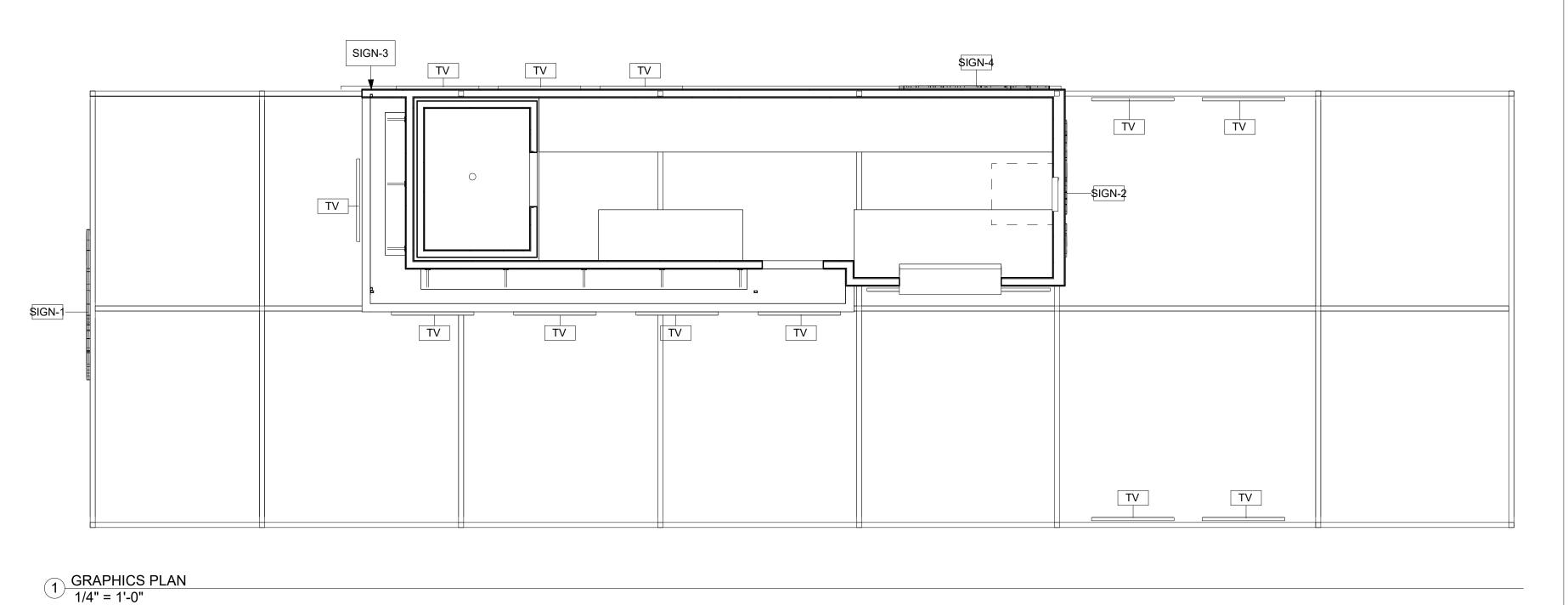
As indicated





4 SPORTS WINGS BURGERS BEER SIGN 3/4" = 1'-0"

		GRAPHICS SCHEDULE			
Type Mark	Description	Comments	Suppl ied	Insta Iled	Count
SIGN-1	STACKED PICKLE STOREFRONT SIGN		GC	GC	1
SIGN-2	QUOTE SIGNAGE	BLACK PAINTED LETTERS, PT-1 WITH YELLOW BORDER	GC	GC	1
SIGN-3	SPORTS WINGS BURGERS BEER SIGN	CUTOUT BLACK ACRYLIC, BACK LIT	GC	GC	1
SIGN-4	STACKED PICKLE SIDE SIGN		GC	GC	1



**SIGNAGE BY: BY OWNER** 

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Description	Date
30% SUBMITTAL	06/07/2019
90% SUBMITTAL	08/08/2019
	30% SUBMITTAL

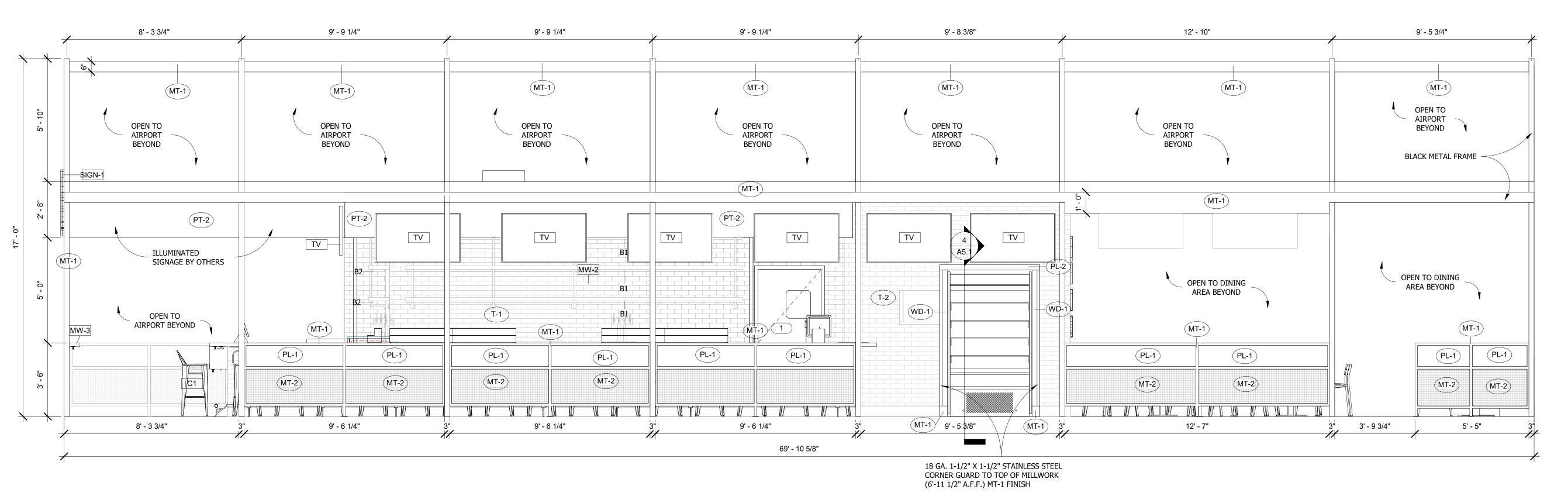
# SIGNAGE & GRAPHICS

2019-033 Project number 08-07-19 Drawn by Checked by

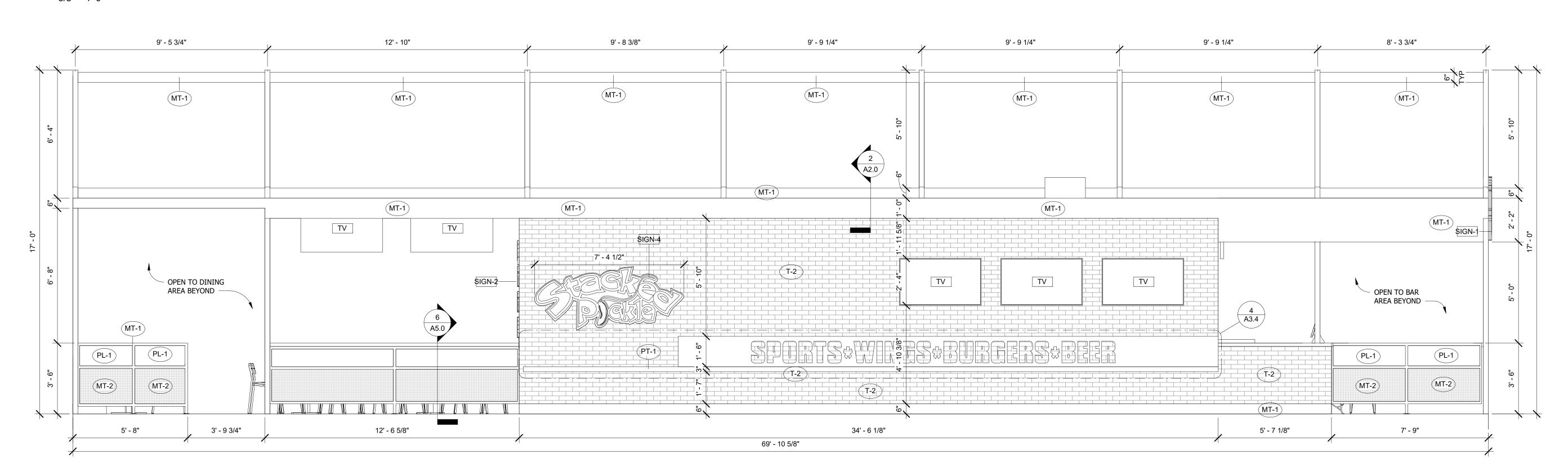
A3.4

Scale

As indicated



1 FRONT BAR ELEVATION
3/8" = 1'-0"



3 BACK WALL ELEVATION
3/8" = 1'-0"

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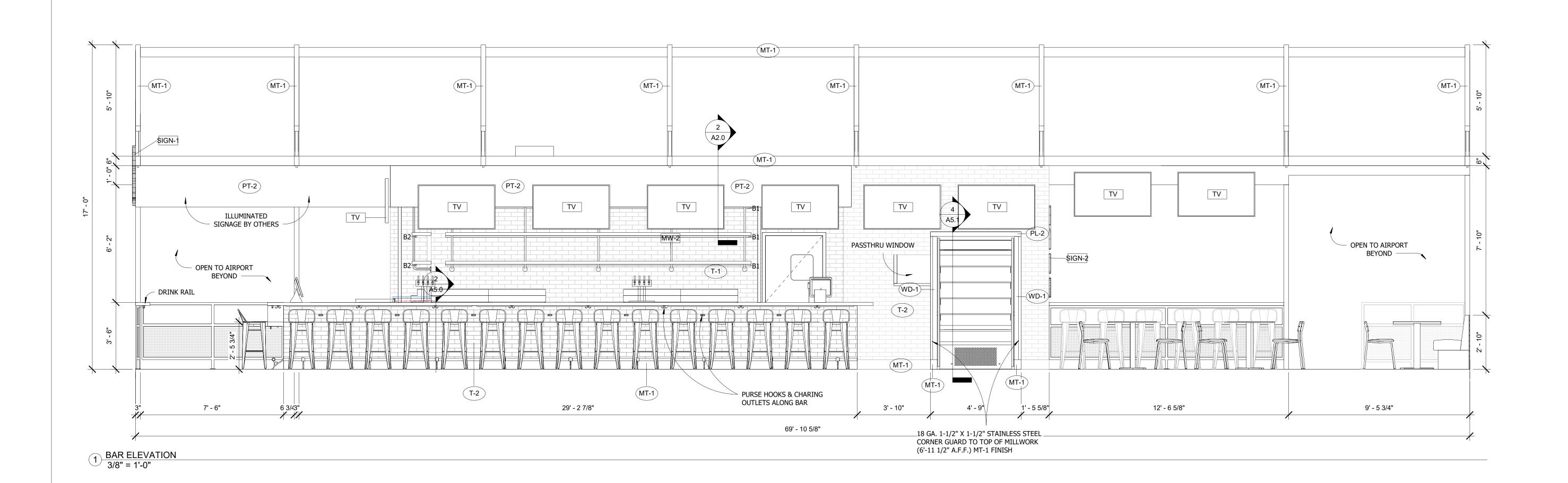
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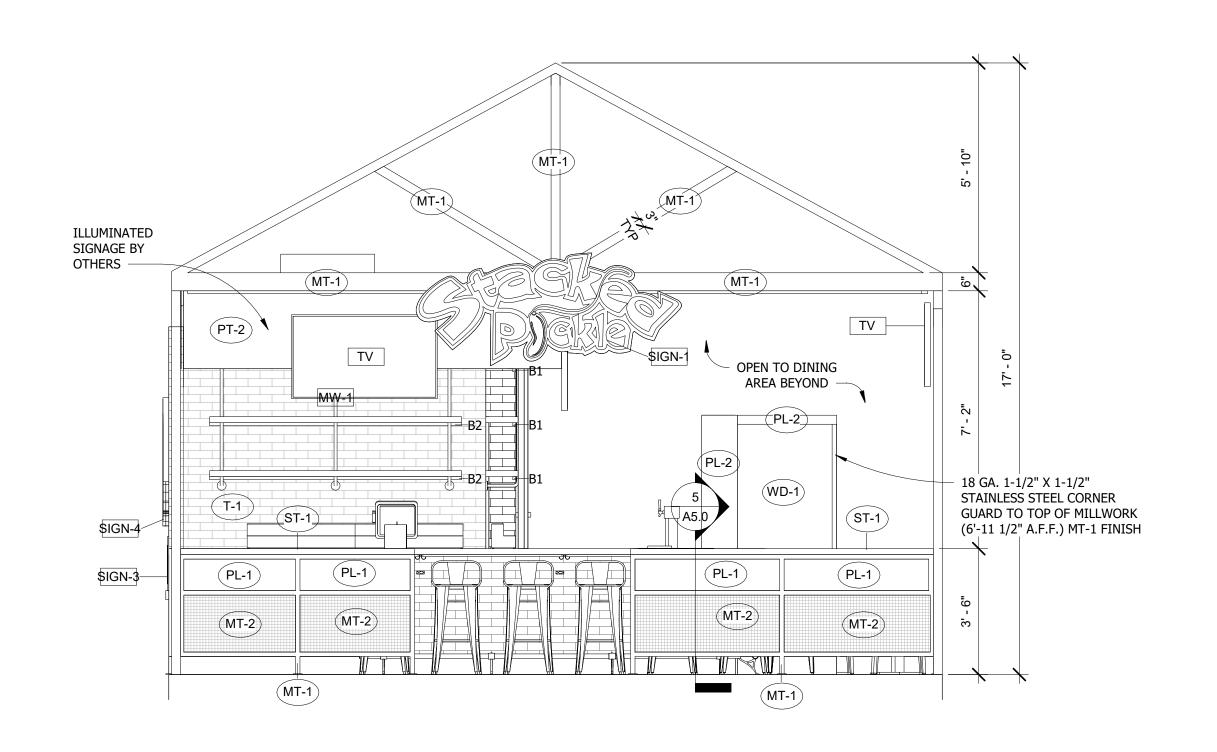
# **ELEVATIONS**

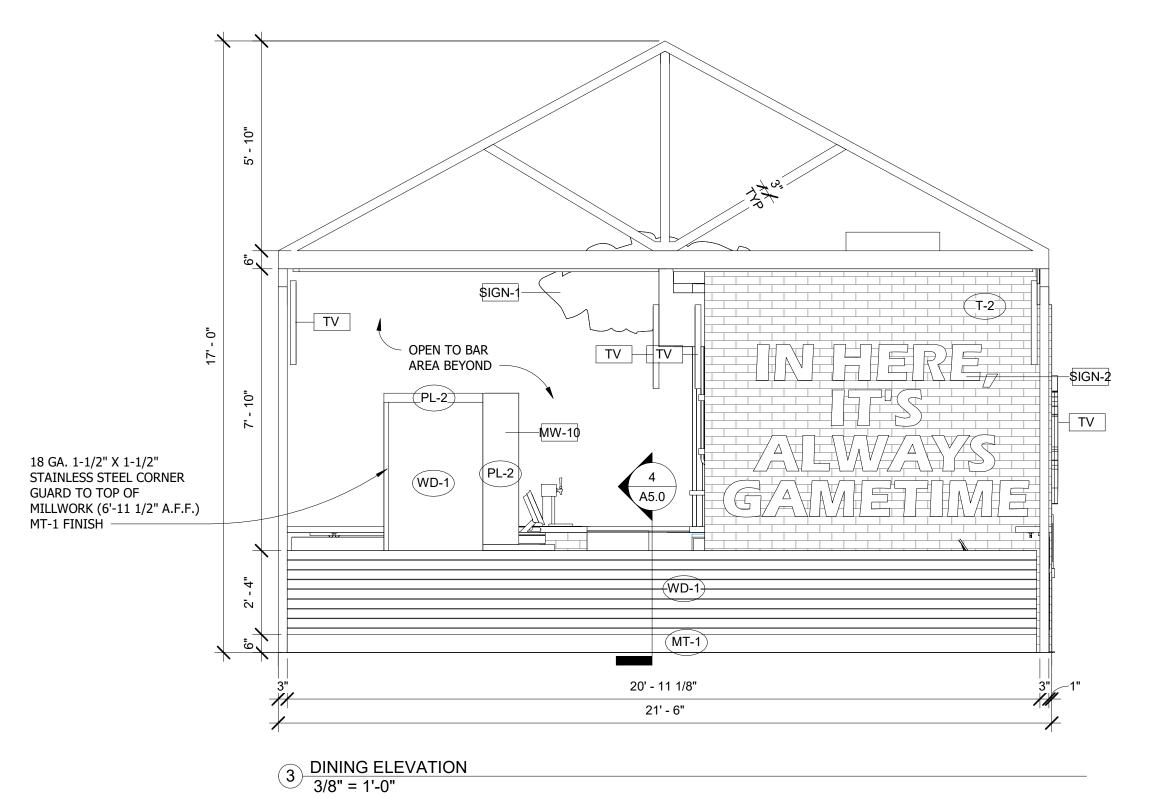
0040 000
2019-033
08-07-19
LV
SC

A4.(

e 3/8" = 1'-0"







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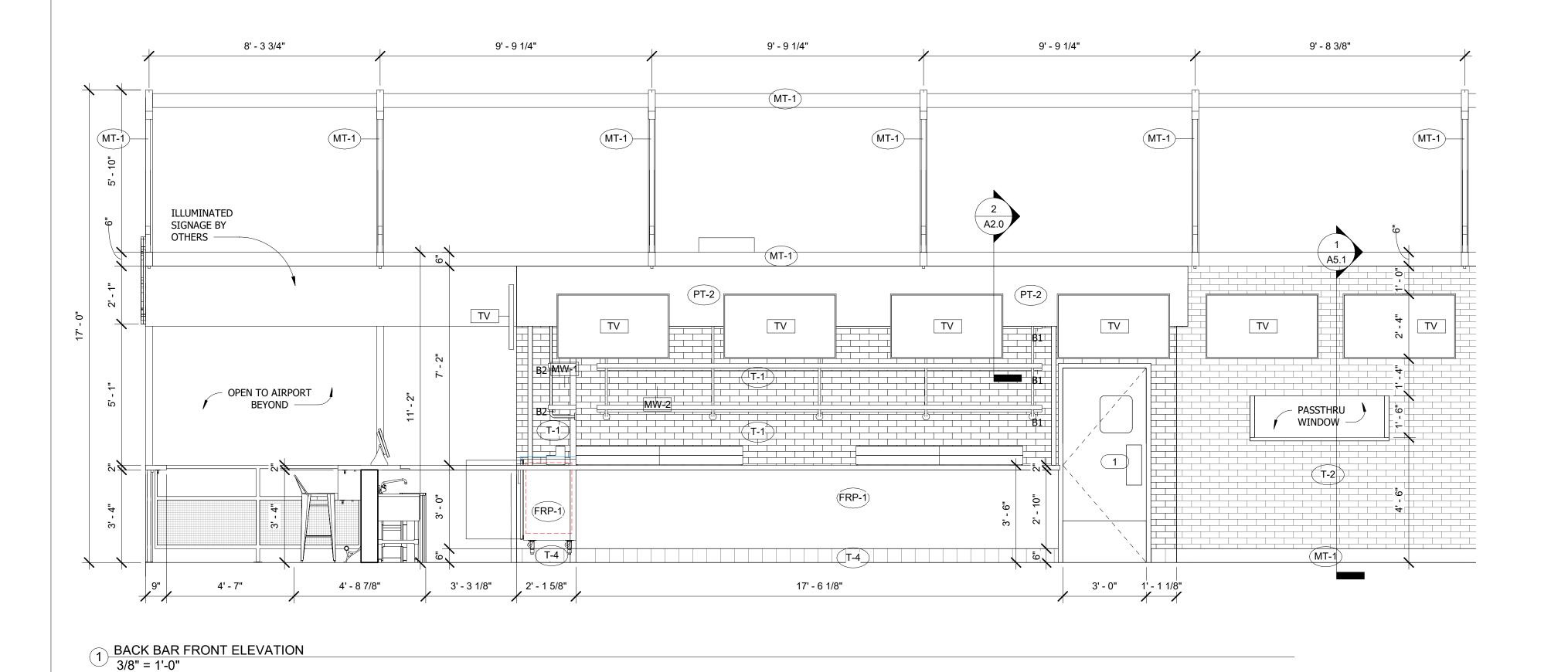
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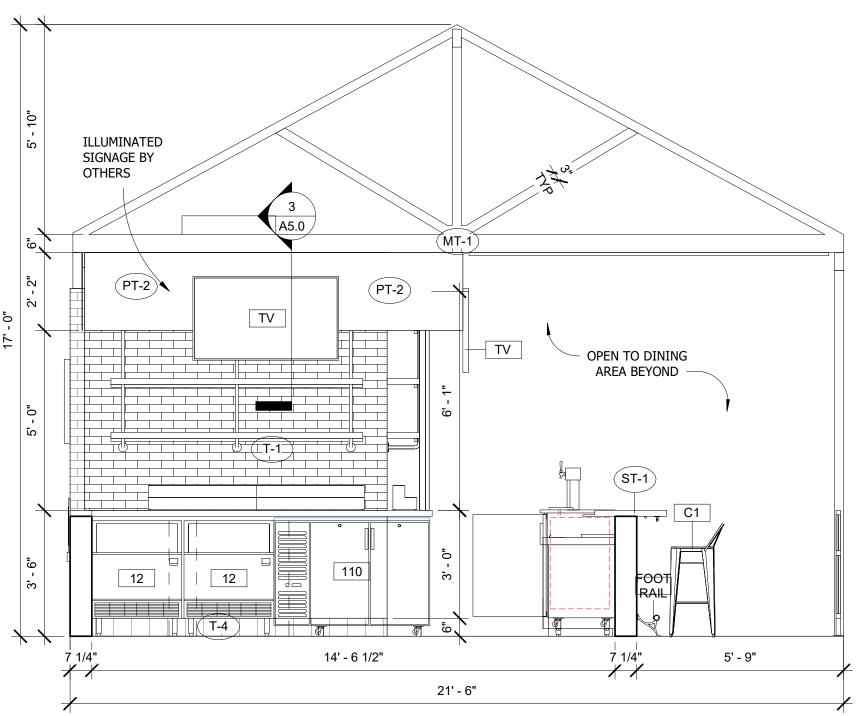
No.	Description	Date
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# **ELEVATIONS**

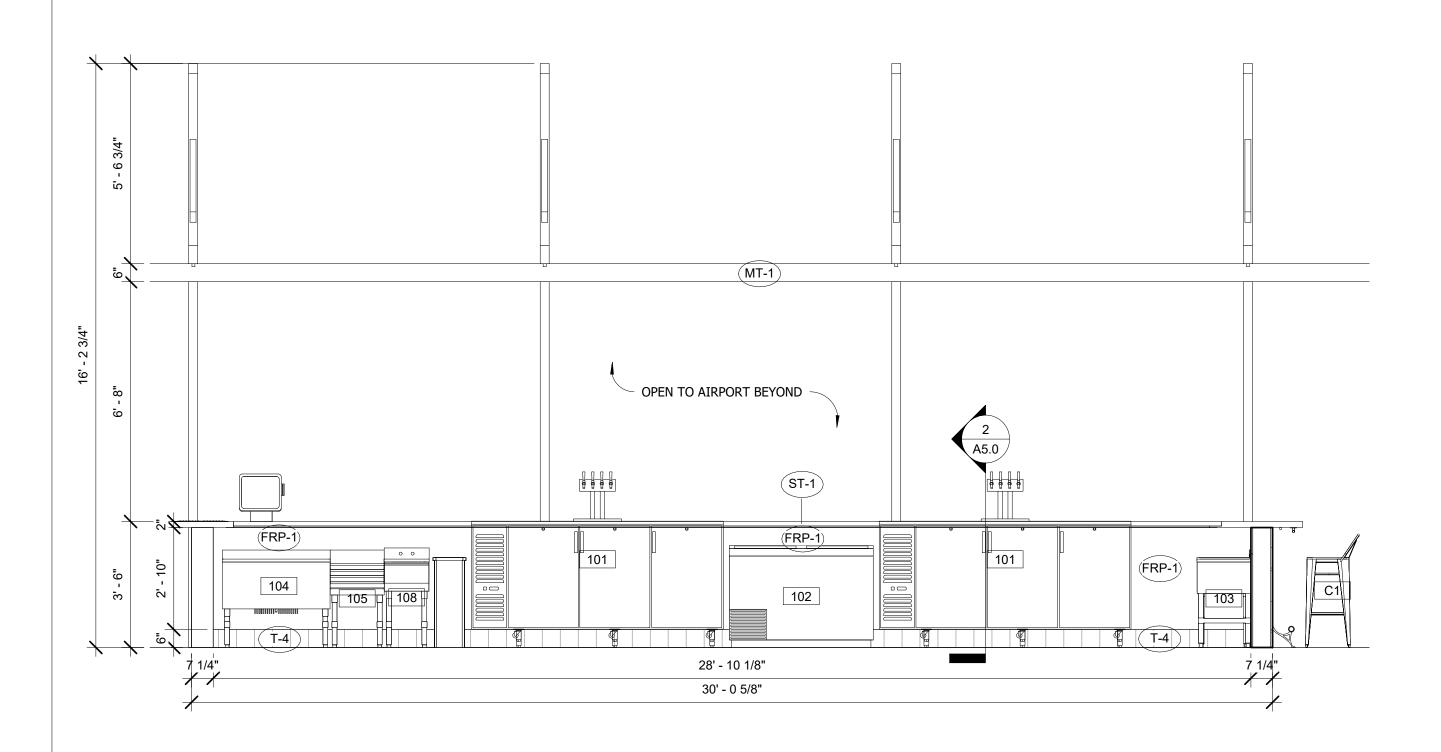
Project number	2019-033
Date	08-07-19
Drawn by	LV
Checked by	SC

3/8" = 1'-0"

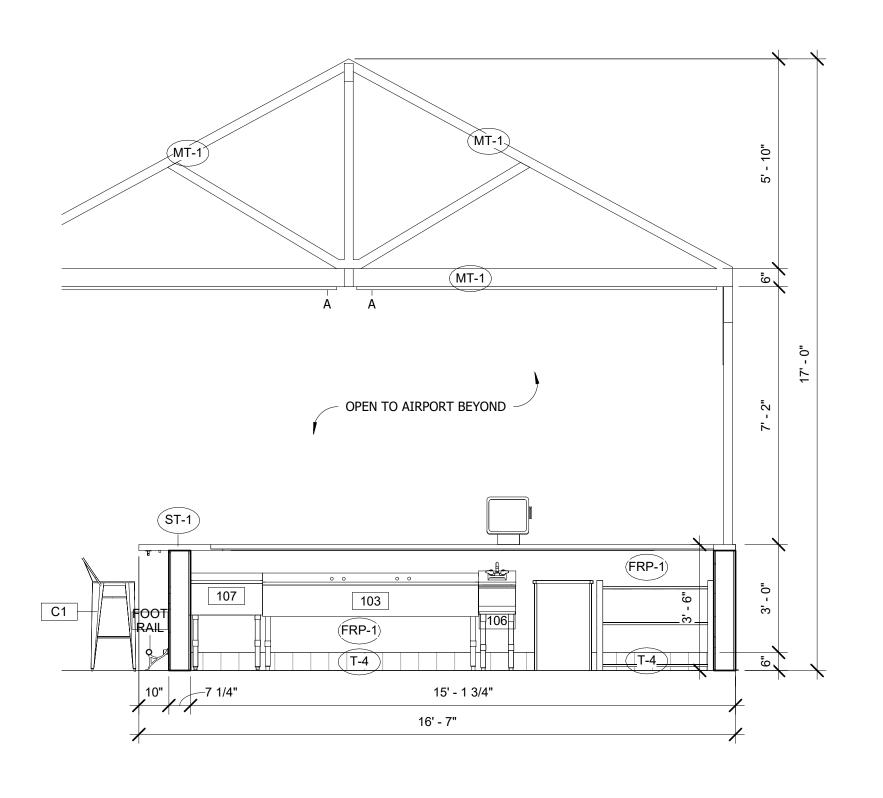




2 BACK WALL SIDE ELEVATION 3/8" = 1'-0"



3 BAR SERVICE SIDE ELEVATION
3/8" = 1'-0"



4 BAR LEFT SERVICE SIDE ELEVATION
3/8" = 1'-0"

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SILHOUETTE

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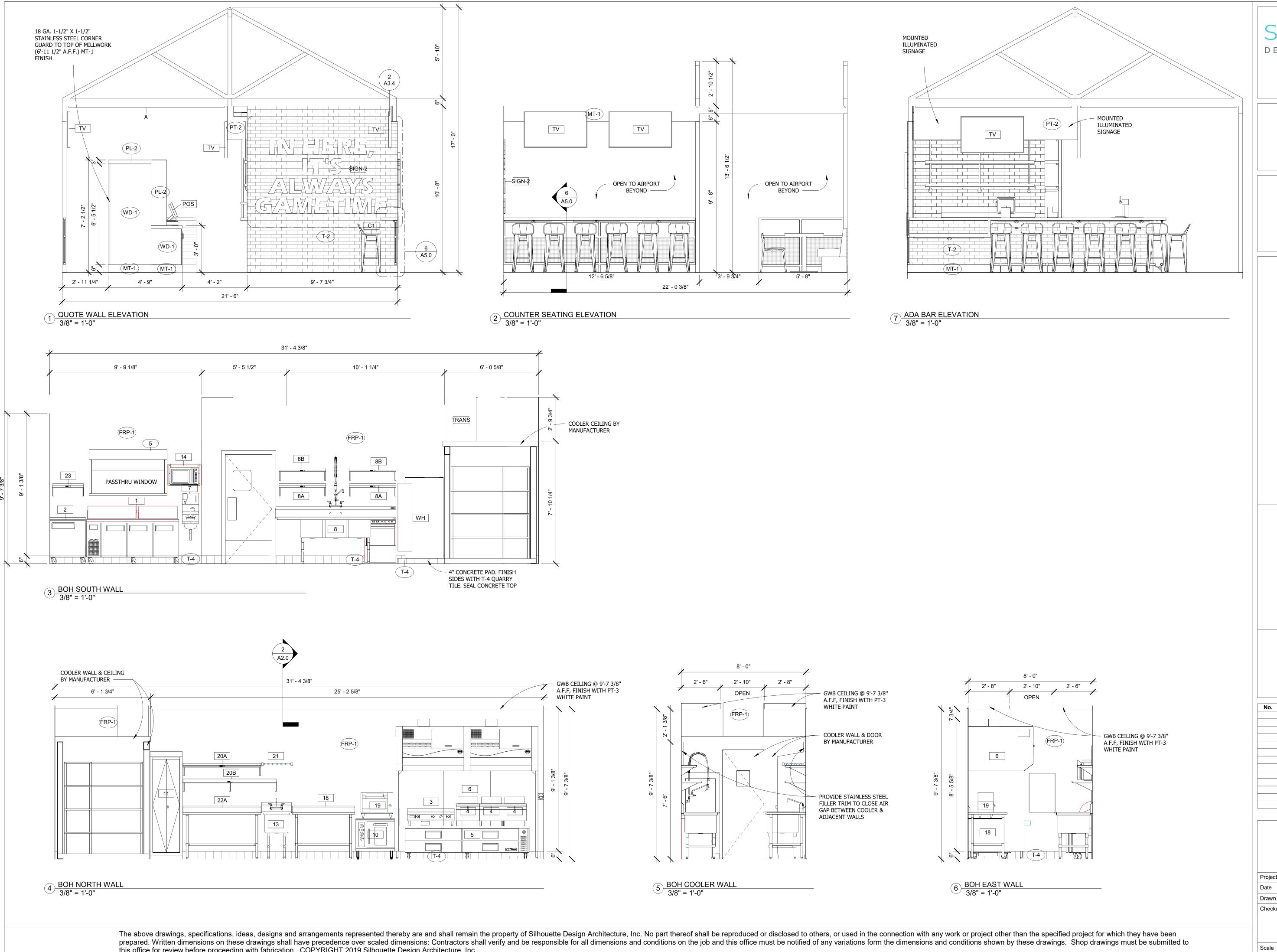
0% SUBMITTAL	06/07/2019
OO/ OLIDAUTTAL	
U% SUBMITTAL	08/08/2019
	0% SUBMITTAL

# **ELEVATIONS**

Project number	2019-033
Date	08-07-19
Drawn by	LV
Checked by	SC

A4.2

3/8" = 1'-0"



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# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

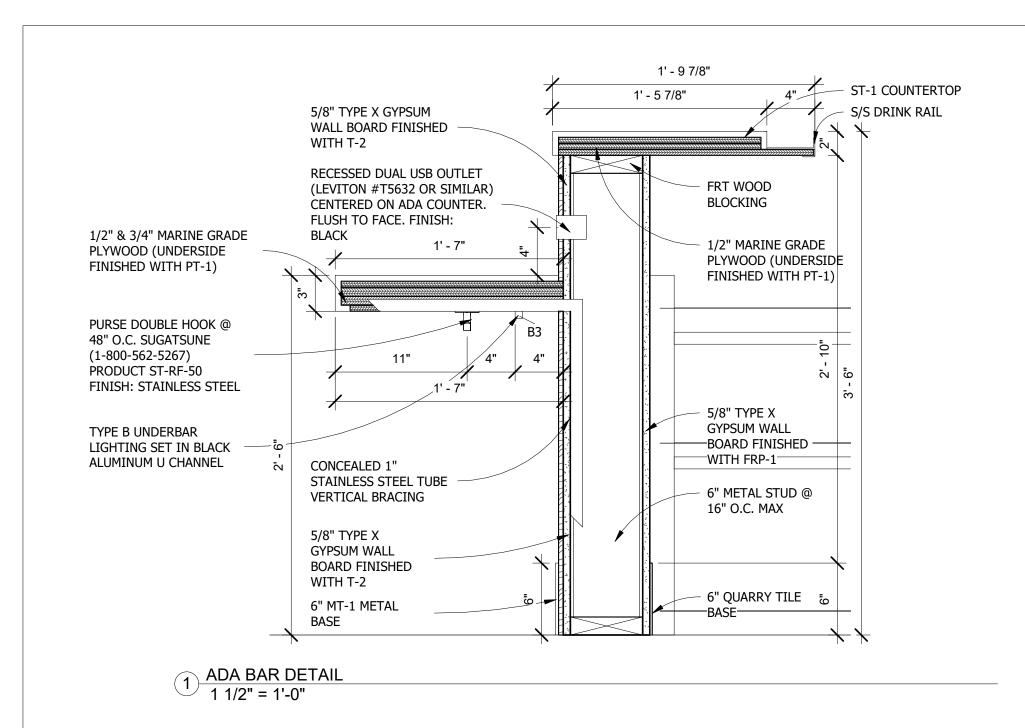
No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/08/2019

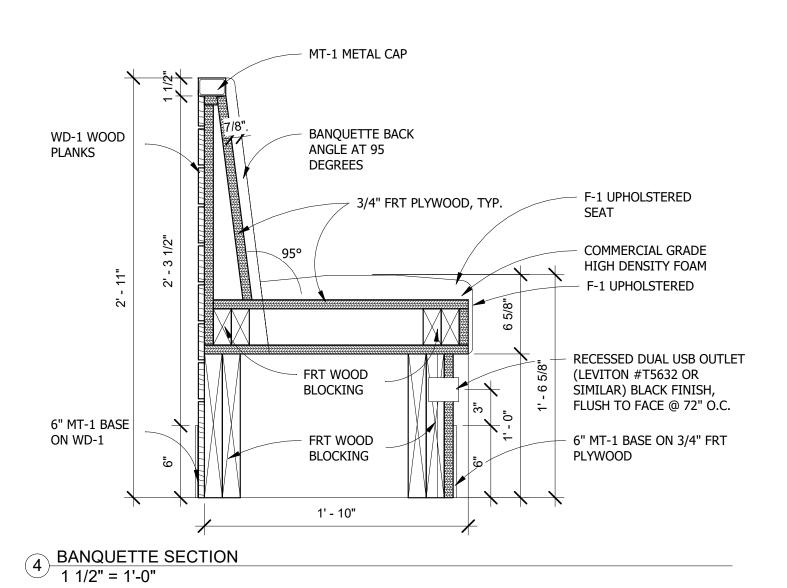
# **ELEVATIONS**

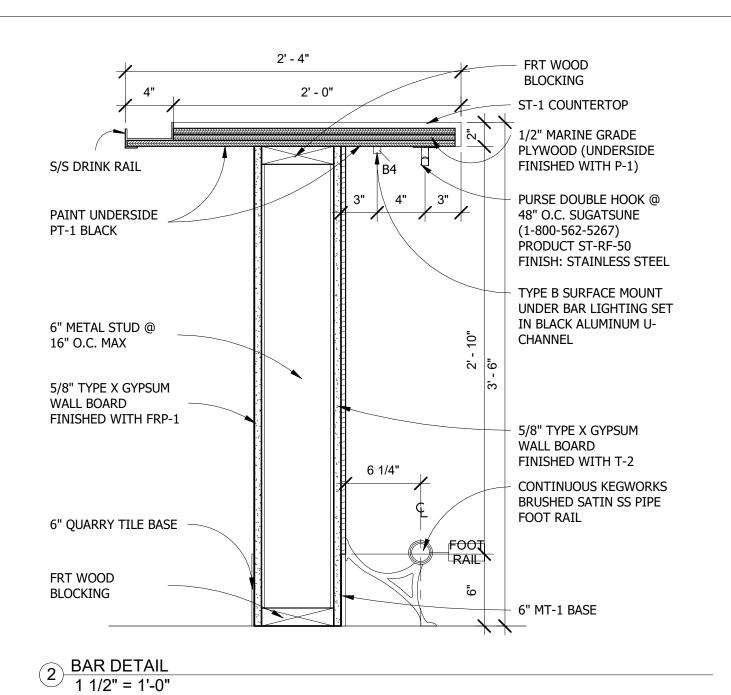
08-07-19
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SC

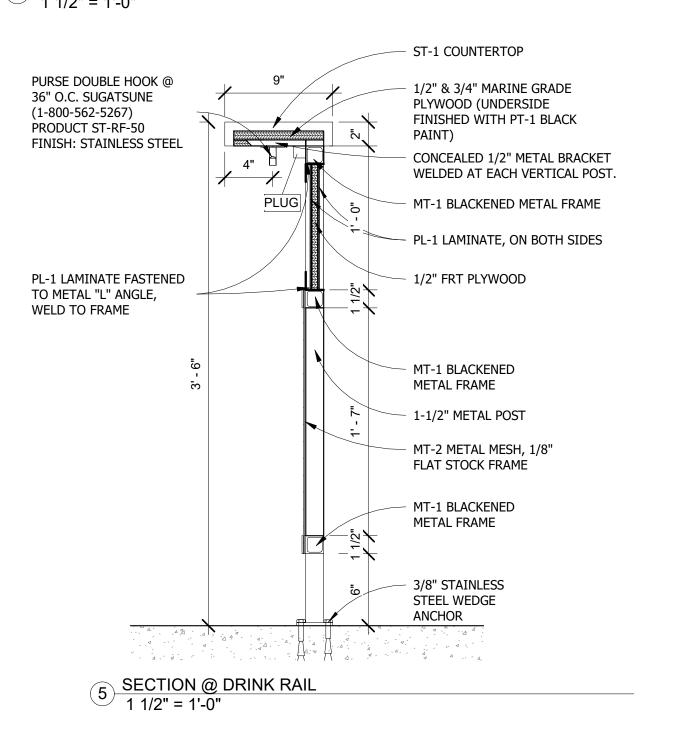
3/8" = 1'-0"

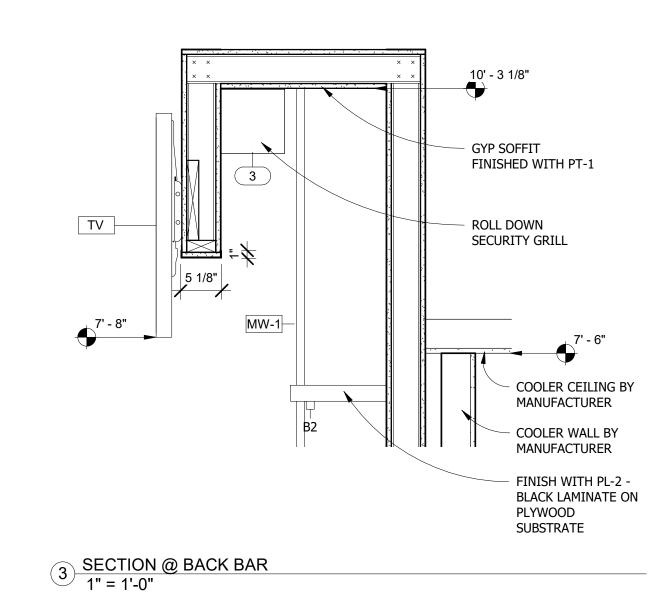
prepared. Written dimensions on these drawings shall have precedence over scaled dimensions: Contractors shall verify and be responsible for all dimensions and conditions on the job and this office must be notified of any variations form the dimensions and conditions shown by these drawings. Shop drawings must be submitted to this office for review before proceeding with fabrication. COPYRIGHT 2019 Silhouette Design Architecture, Inc.

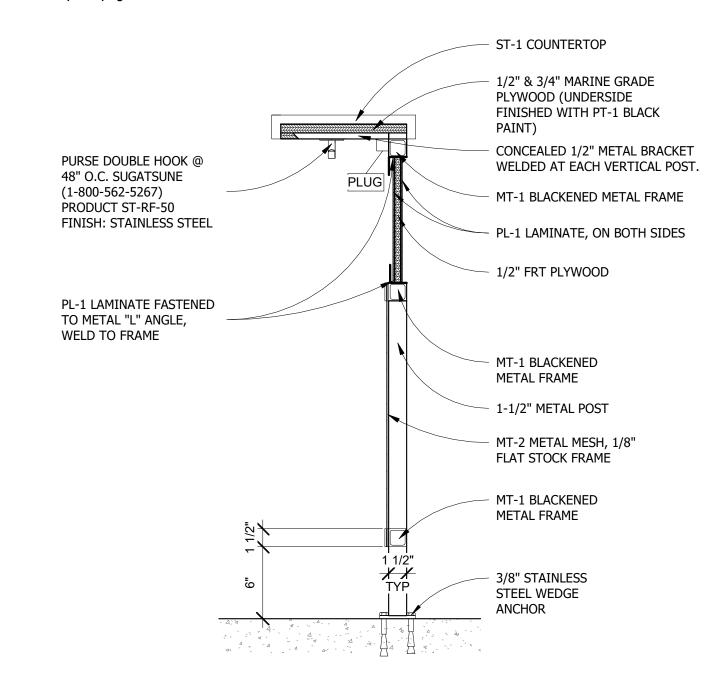


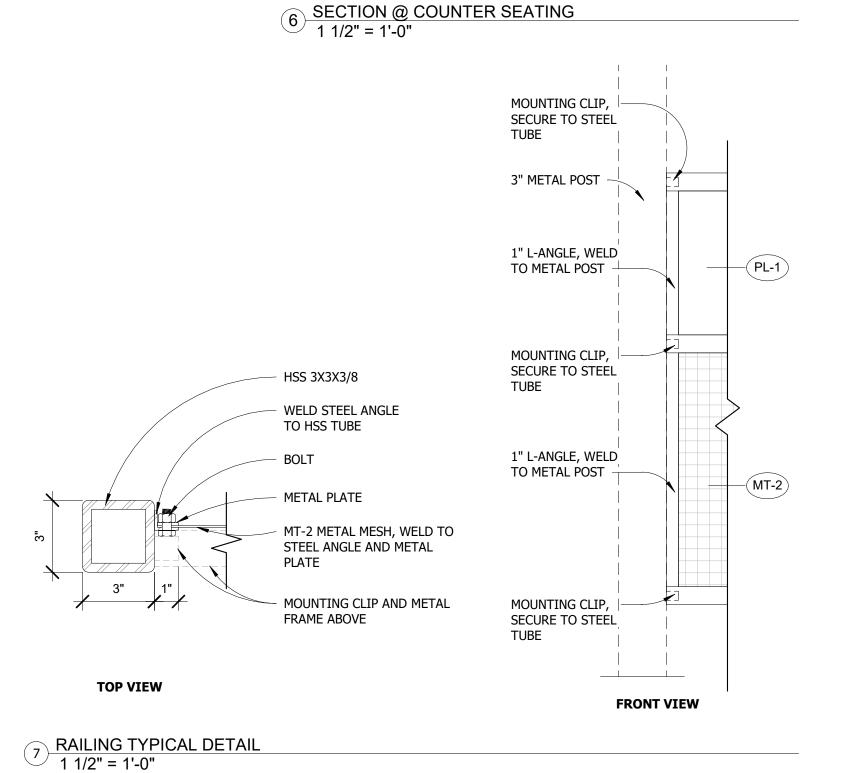












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No.	Description	Date
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	90% SUBMITTAL	08/08/2019
	1	

# **DETAILS**

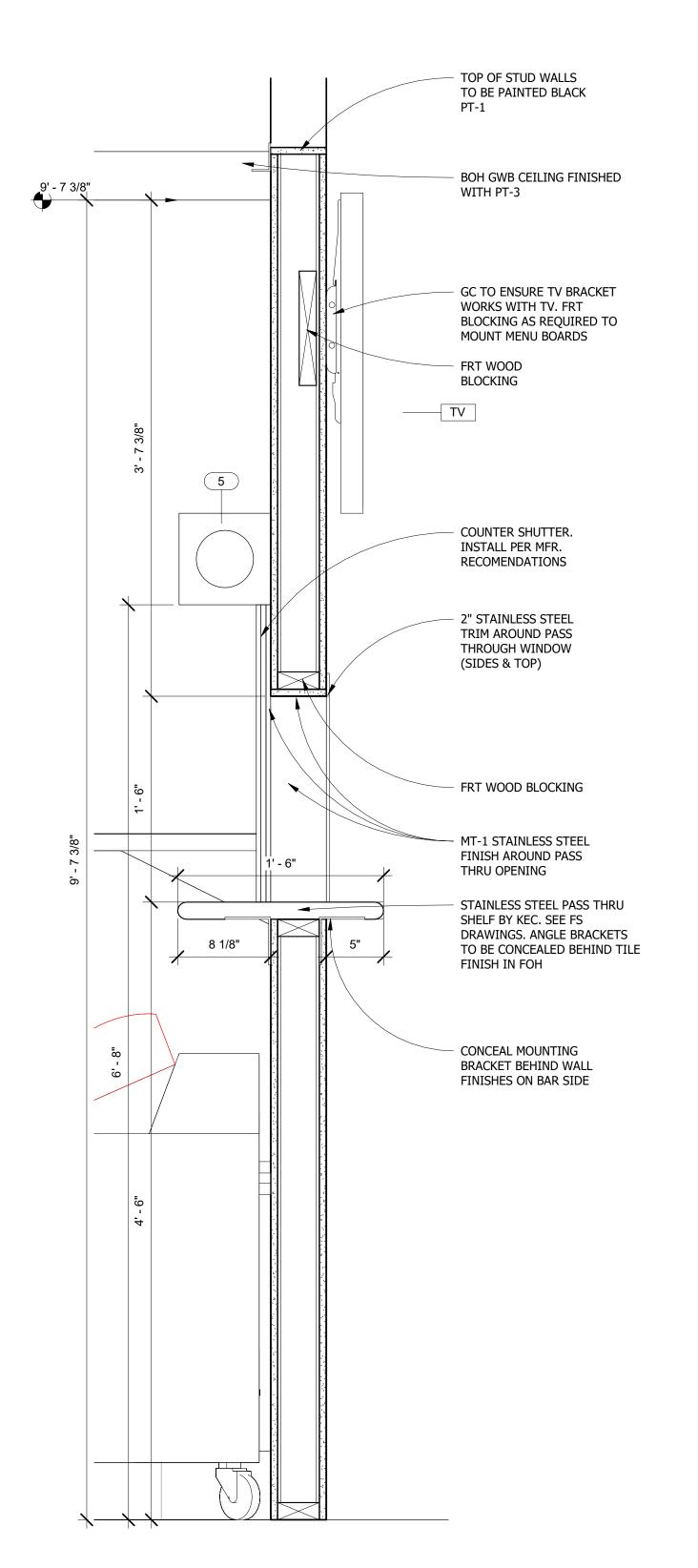
2019-033 Project number 08-07-19 Drawn by Checked by

A5.0

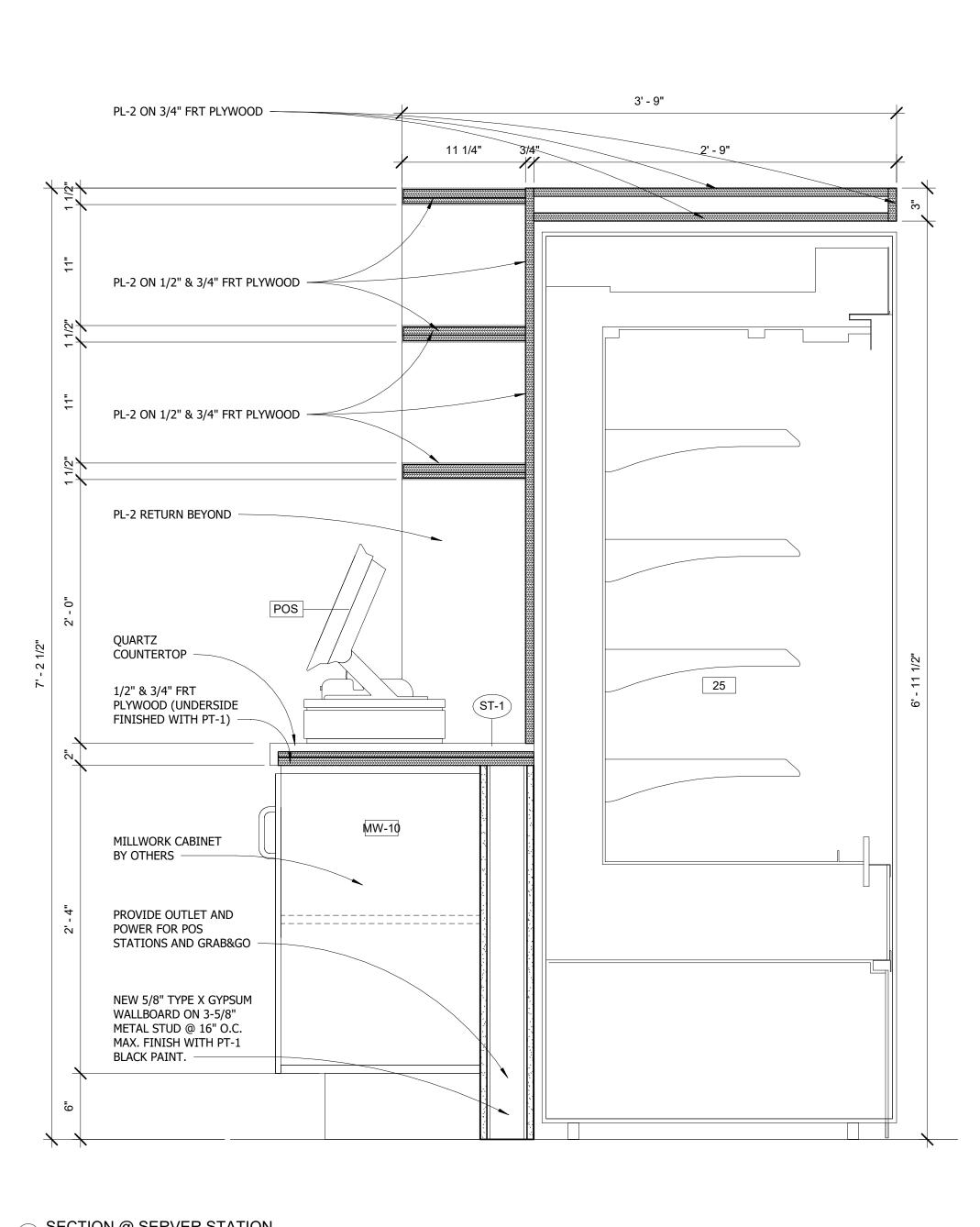
Scale

As indicated

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1 1/2" = 1'-0"



4 SECTION @ SERVER STATION
1 1/2" = 1'-0"

SILHOUETTE

DESIGN ARCHITECTURE

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	30% SUBMITTAL

# **DETAILS**

Project number	2019-033
Date	08-07-19
Drawn by	LV
Checked by	SC

A5.1

Scale 1 1/2" = 1'-0"

#### ELECTRICAL SYMBOL LEGEND DUPLEX RECEPTACLE ABOVE COUNTER DUPLEX RECEPTACLE FLOOR / CEILING DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE ABOVE COUNTER DOUBLE DUPLEX RECEPTACLE SPECIAL RECEPTACLE PANEL BOARD DIRECT EQUIPMENT CONNECTION WITH THERMAL RATED DISCONNECT SWITCH LOW VOLTAGE VOICE/DATA OUTLET ABOVE COUNTER VOICE/DATA OUTLET FLOOR / CEILING VOICE/DATA OUTLET DATA OUTLET $\nabla$ FLOOR / CEILING DATA OUTLET VOICE OUTLET FLOOR / CEILING VOICE OUTLET RFCFSSED CLOCK STYLE OUTLET FOR TV, REFER TO SPECIFICATIONS FOR MORE DETAILS CARD READER DOOR CONTACT REX REQUEST TO EXIT LIGHTING \$ DIMMER SWITCH \$ D 3-WAY SWITCH **⊈** 4₩ 4-WAY SWITCH VACANCY SENSOR (WALL MOUNT) \$ 0S OCCUPANCY SENSOR (WALL MOUNT) \$ MC LOW VOLTAGE MOMENTARY CONTACT SWITCH ¢ OR TIME CLOCK OVER RIDE SWITH VACANCY SENSOR (CEILING) (OS) OCCUPANCY SENSOR (CEILING) DAYLIGHT SENSOR (CEILING) BATTERY EMERGENCY LIGHT (WALL MOUNT) BATTERY EMERGENCY LIGHT (CEILING MOUNT) $\otimes$ UPPERCASE LETTER DENOTES FIXTURE TAG LOWERCASE LETTER DENOTES SWITCH DESIGNATION FIRE ALARM FIRE ALARM VISUAL ANNUNCIATION DEVICE (STROBE) FIRE ALARM AUDIBLE ANNUNCIATION DEVICE FIRE ALARM AUDIBLE / VISUAL ANNUNCIATION DEVICE FIRE ALARM SMOKE DETECTOR FIRE ALARM HEAT DETECTOR (RATE OF RISE) PLUS FIXED TEMPERATURE FIRE ALARM HEAT PULL STATION FIRE ALARM WATERFLOW SWITCH FIRE ALARM TAMPER SWITCH FIRE ALARM DUCT DETECTOR TEST STATION (KEYED, AUDIBLE/VISUAL) IFARM FIRE ALARM ADDRESSABLE RELAY MODULE FACP FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL FIRE ALARM NAC PANEL FIRE ALARM FAN SHUTDOWN RELAY FSR MISCELL/ JUNCTION BOX PULL BOX CONDUIT CONCEALED IN WALL, CEILING OR UNDERGROUND. CENTER LINES DENOTE UNDERGROUND/FLOOR CONDUIT DASHED LINES DENOTE DEMOLITION. \_\_\_\_ ARROWHFAD DENOTES HOMERUN TO PANEL SLASHED DENOTE QUANTITY OF CONDUCTORS. --DOT DENOTES GROUND LONG SLASH DENOTES NEUTRAL CONDUCTOR. SHORT SLASH DENOTES PHASE CONDUCTOR, SWITCH LEG OR CONTROL. FLEXIBLE CONDUIT WHIP - MAX 6'-0" IN LENGTH $\bigcirc$ M FUSED SWITCH 0\_\_\_\_ CIRCUIT BREAKER ENCLOSED CIRCUIT BREAKER FUSED SWITCH DISCONNECT SWITCH ď FUSED DISCONNECT SWITCH COMBINATION STARTER DISCONNECT SWITCH W/H.O.A. **ANNOTATION** KEYED NOTE TAG (X)KEYED NOTE TAG

DEMONDER HOTE TAG

#### **ELECTRICAL ABBREVIATIONS**

ACP ACCESS CONTROL PANEL AOR AREA OF RESCUE AFF ABOVE FINISHED FLOOR BOH BACK OF HOUSE CL CENTER LINE CKT CIRCUIT DEDICATED ELECTRICAL CONTRACTOR EM EMERGENCY FX FXISTING ETR EXISTING TO REMAIN ER EXISTING, RELOCATED FAC FIRE ALARM CONTRACTOR FPC FIRE PROTECTION CONTRACTO GC GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER HD HAND DRYER LVC LOW VOLTAGE CONTRACTOR MECHANICAL CONTRACTOR MT MOUNT NL NIGHT LIGHT PC PLUMBING CONTRACTOR

ROOF EQUIPMENT LOCATED ON ROOF ABOVE

TGB TELECOMMUNICATIONS GROUND BUS

TTC TELEPHONE TERMINAL CABINET

W WALL MOUNT AT 48" A.F.F.

PL PILOT LIGHT

TC TIMECLOCK

SM SURFACE MOUNT

WP WEATHERPROOF

**Electrical Specifications:** General

> A. The requirements set forth in these specifications and contractor drawings are minimum requirements. Any local or national codes and/or building requirements which are stricter or more restrictive in nature shall take precedence. It is the Contractors responsibility to familiarize himself with all the project requirements whether specifically stated or implied prior to the purchase or installation of any electrical equipment or appurtenances.

B. The Electrical Contractor shall provide and pay for all permits, labor, materials, accessories and equipment required for a complete and functional electrical system(s).

C. Materials and installation shall comply with all local and national codes and applicable amendments, all utility requirements, all laws and ordinances, OSHA, NFPA 70E and all AHJ (authorities having jurisdiction) requirements. It is the Electrical Contractors responsibility to becoming familiar with all local Codes and ordinances to ensure compliance. The Electrical Contractor shall not perform any electrical work or install any electrical components which are against Code.

D. The Contractor shall guarantee all materials and workmanship for a period of (1) year after final acceptance of the work unless otherwise noted E. Clean Up: The contractor is responsible for daily cleanup of

all items associated to their trade in order to maintain

a "broom swept" condition. F. Approvals: the contractor is required to test, adjust and retest systems as required in order to obtain approvals from local iurisdictions. Owners insurance and underwriters, and Owners

G. The contract documents are not a direction for the contractor to violate any codes or local amendments. Should the contractor believe a code violation is present in the contract documents he shall bring it to the attention of the engineer immediately with an accompanying code reference or standard. The contractor shall not proceed with any work until the potential conflict has been resolved.

H. The Electrical Contractor shall engage and/or hold the contract of any required sub-contractors (low voltage, fire alarm, etc.) as necessary to fulfill the required electrical contract. The Electrical Contractor shall coordinate scope with the General Contractor.

2. Contract documents and field conditions

A. The drawings shall serve to indicate the general intent of the design and layout of the electrical systems. The design documents may not include all items required. Accessories and other components are diagrammatic unless specifically shown or dimensioned. Existing conditions are reflective of as-built/as-designed drawings and items that were visually observable during the time of the field survey. Due to occupancy, not all areas may have been field surveyed. The Contractor shall review all existing conditions prior to Bid and shall identify all areas in auestion within his Bid. Items not identified during the bidding process will be assumed to have been field verified and no issues or conflicts exist.

B. As the extent of the Engineer's field survey is visual review in nature, the Contractor shall notify the Engineer immediately of any materials or equipment observed, identified or believed to be inadequate, unsuitable, unsatisfactory or in violation of any existing laws, ordinances or rules prior to installation and/or

C. The Contractor shall be required to examine all contract documents and specifications, of all trades prior to submitting a Bid or commencing work. In addition, the Contractor sho visit the project site and adjacent areas prior to submitting Bid or commencing work. Identify all discrepancies between field conditions and design drawings to the Engineer mmediately upon discovery.

3. Where the existing electrical systems are to remain in service. 8. Requests for Information (RFI) The shut-down of any system or portion of a system, shall be approved in writing from the Owner two weeks prior to the requested shut down. The bid is to include the cost of any temporary wiring and/or connections. The Contractor shall include any costs for temporary connections including temporary panels, generators, etc. as required. Shutdowns shall be assumed to be done on premium time

4. Within the drawings or specifications, where conflicts in size, quantity or quality occur, the larger size, greater quantity, and superior quality shall govern and be furnished.

5. Change Orders

A. All cost change requests shall be submitted using the latest edition of "RSMeans Electrical Cost Data". All requests shall be submitted broken down based on material cost per item, 9. linear foot. etc.; labor cost including cost per man hour and auantity of hours; overhead and profit percentage; total cost of the change order.

B. All change requests shall be accompanied by the initiating sketch, addenda, bulletin, directive, etc. including number for tracking. All change requirements shall include the date of documents the original, and changes were based off of.

C. Any associated costs for drafting to include the document change into the "AS-BUILT" documents shall not exceed 10% of the cost of change request. This shall include

D. Should the Contractor elect not to use RSMeans, this aualification must be outlined in writing in the Contractors bid. Alternatives to RSMeans shall be submitted in all inclusive (material and labor) unit prices, and each unit price shall be defined in the Contractors bid. All items not defined in the bid shall be reviewed using RSMeans.

three dimensional drafting or BIM implementation.

the General Contractor and/or Architect during bid. All costs to accommodate required phasing shall be included in bid. F. All projects prepared using Revit or other three dimensional design tool shall not be assumed by the Contractor to be

E. The Contractor shall coordinate all phasing requirements with

100% coordinated installation documents. The Contractor shall fully field survey existing conditions and prepare shop drawings coordinated with all other trades. 6. Permits and fees

taxes, inspections, etc. necessary for the completion of the

work. Any permit fees excluded shall be outlined in the Contractors bid. 7. Submittals and shop drawings

A. The Contractor shall obtain and pay for all permits, fees,

A. Any contractor submittals or calculations required by the local AHJ, in order to obtain occupancy shall be provided the Electrical Contractor. The Electrical Contractor shall include any fees required for such submission in his bid.

B. The Contractor shall prepare and submit to the Authority Having Jurisdiction, the fire alarm documents, including drawings, battery calculations, equipment cuts, etc. Fire alarm drawings provided in the contract documents are provided for the fire alarm contractors use only and are generic in nature. The fire alarm contractor shall provide all required equipment

as is required per local Code and NFPA 72. C. Shop drawings shall include Contractor's name, job address, manufacturers' names, catalog numbers, cuts, diagrams, dimensions and maintenance clearances, etc., required for the proper review of the complete electrical submittals. Submittals shall be in logical groups: for example, all lighting fixtures and associated lighting controls. Contractor shall submit "systems" of components together for complete review. For example, lighting fixtures and controls shall be submitted together so that driver/ballast types can be reviewed with the controls being submitted. An electrical coordination study (where required) shall be submitted with the electrical equipment submittals. The contractor is responsible for submitting components and equipment together for review — partial submittals shall not be reviewed

D. Submittal reviews are a courtesy review for general conformance and do not imply a guarantee of existing conditions or building measurements. A submittal review in no wav alleviates the Contractor of ensuring compatibility and functionality systems, components, or other responsibilities under the contract.

E. The shop drawing submittals shall be in electronic (.PDF) format unless noted otherwise in the Architectural specifications. Where hard copies are submitted, a minimum of (3) copies will be provided. Electronic shop drawings greater than 1MB in size shall not be submitted via email. but shall be posted to an accessible public site (and the Architects upon request). The following items shall be submitted for review as applicable by project

7.E.1. Lighting fixtures, lamps and ballasts. 7.E.2. Lighting controls and lighting control systems. 7.E.3. Receptacles, switches, wiring devices, floor fittings,

7.E.4. Fuses, disconnect switches, motor starters.

7.E.5. Panelboards, transformers and other distribution 11. Demolition and removal of systems 7.E.6. Electrified items provided by other trades IE, elevators, etc. shall also be forwarded to the electrical engineer

for review and coordination approval. F. No equipment shall be purchased or installed without an approved shop drawing submitted. Failure to comply with this provision, the Contractor does at his own risk.

7.H.1. The Contractor may substitute in accordance with the Architectural general provisions of the specifications. Where no Architect is present in the project, all substitutions must be presented in writing, with the Contractors bid, and indicate the reason for such substitution - schedule impact, product availability, cost savings, etc. No substitutions will be accepted without prior approval of the Engineer and Architect and/ or

7.H.2. The Contractor is required to provide equivalent physical size, materials, weight, performance, criteria, as the product specified. In addition, any differences between the product specified and the substitution which may affect other trades IE electrical characteristics mechanical characteristics, etc. shall be accounted for prior to suggesting the substitution. All cost impacts to all other trades, including engineering design any, shall be accounted for in the substitution. No additional costs shall be approved after the approval of the substitution.

A. Where design intent is unclear, field conditions require a change in design, or for any similar issues requiring a change to design intent, the contractor shall submit in writing

made by the contractor without a confirmed RFI by the Engineer/Owner will preclude the contractor from compensation should these assumptions be determined to be in error or non-code compliant. B. Where the contractor deviates from code requirements or design intent without approval by the Owner and design team,

a formal RFI to the engineer for clarification. Assumptions

he does so at his own risk. Failure to meet code requirements or design intent may result in correction of the installation without compensation to the contractor. Cutting, patching and modifications to existing structures

A. All cutting, drilling and patching of building concrete, masonry or other structural components shall be included by the Contractor. Under no conditions may structural components be modified or altered in any way without written approval from the Engineer and Structural Engineer.

B. The Contractor shall x-ray or use ground penetrating radar (GPR) prior to coring ensure that all proposed floor core locations are free of embedded conduit, steel rebar, etc. Proposed method shall be outlined in the Contractors bid. Contractor shall notify building owner in writing two days in advance and receive approval in writing. All coring locations shall be approved by the building's structural engineer.

C. Fire seal all penetrations through rated walls, ceilings and floors with approved firestopping: 3M "Fire Barrier CP-25," or Thomas & Betts "Flame Safe". All fire ratings shall be maintained using an approved, UL listed method and/or

10. Construction requirements

A. All temporary power and connections as required and/or identified by the Owner or Construction Manager, shall be provided by the Electrical Contractor. The Electrical Contractor shall be responsible for providing temporary power, lighting and fire alarm coverage as required throughout the construction period, including the required phasing in order to complete the construction. The Contractor shall provide proper physical separation between existing areas and areas of construction to include temporary partitions, visqueen, etc.

B. All materials and equipment shall be new (unless identified as existing to be reused) and listed and/or labeled by UL, ETL, CSA or other recognized testing laboratory as approved by the local AHJ. All equipment to be reused shall be cleaned and tested and confirmed satisfactory for reuse with the same parameters of that of new equipment.

C. All equipment and lugs shall be rated for a minimum temperature of 75°C unless noted otherwise.

D. The Electrical Contractor shall disconnect and remove any abandoned or unused electrical equipment within the area of work. All abandoned or unused equipment not identified on the contract documents shall be approved for removal by the building owner prior to demolition.

E. All materials and equipment shall be stored, handled, and installed in accordance with the manufacturers recommendations and any local ordinances.

F. All construction methods, installation, equipment and materials shall be in compliance with any and all building and/or client standards and all local Codes. In no case shall any building or client standard direct the Electrical Contractor to provide or install any components which are against code or good engineering practices.

G. Where temporary power is required to maintain continuity of electrical service during construction, the Contractor shall provide any and all temporary generators, panels, connections, transfer switches, etc. as required including multiple shut downs where required for the entire construction period. All costs shall be included in the Contractor's bid.

H. The contractor shall review all phasing, stated or implied, to ensure that any existing devices or systems shall remain operational during and after completion of the project. Where the contractor believes that systems outside the scope of work may be affected by a shutdown, or the contractor lacks sufficient information regarding the extent of the existing system(s) inside or outside the scope of work, provide an allowance of \$2.500 in the bid for circuit tracing prior to the

Backboxes and equipment recessed into opposite sides of a fire rated wall assembly shall be located at least 24" horizontally from each other, or shall be protected with fire wrap/putty pads. Electrical boxes or equipment total openings exceeding 100 square inches within 100 square feet shall be protected with a UL listed material and method to maintain the fire rating. Contractor shall ensure that the fire rating of all assemblies shall be maintained using a UL listed material and method for the application.

J. Electrical panels shall not be recessed into fire rated walls. The contractor shall submit in writing a formal RFI in the event that the plans conflict with this requirement.

A. The Contractor shall review with the Owner prior to removal,

all equipment, fixtures, devices, etc., which are to be salvaged. All items to be salvaged shall be removed, protected and stored as required prior to return to the Owner. All items that the Owner does not wish to salvage and/or to be not re-used shall be removed from the site by the Contractor. Include in the bid, the cost of proper disposal of all debris or refuse. Bid shall also include cost to recycle equipment and materials as required IE fluorescent lamps, etc

B. Modify existing equipment as required to facilitate work indicated on the contract documents. Coordinate all work required with existing equipment manufacturers.

C. Where existing electrical work must be removed, it shall be completely removed, back to the first outlet to remain. Conduit that is embedded in concrete or inaccessible may be filled. capped and abandoned in place. Remove all existing wire and identify the conduits at each end as abandoned and provide the date of abandonment

D. The Electrical Contractor shall maintain service to all equipment, lighting fixtures and outlets that are outside the limits of construction. Extend and/or re-route circuits as

E. The Electrical Contractor shall be responsible for damage caused to the existing conditions new conditions and/a other Contractor's work, including damage outside the limits of construction. The Contractor, at his own cost, shall repair and/or replace any existing equipment that is to remain that is damaged. Contractor shall patch and repair all existing conditions affected by construction to their original condition. F. The Contractor shall cap all unused raceways, boxes or

knockouts and identify immediately any abandoned equipment, feeders or raceways requiring removal. G. The Electrical Contractor shall disconnect and make safe for

removal any mechanical, plumbing, or equipment provided by others as listed elsewhere in the contract documents.

H. It shall be understood that the contract drawings may not show all items requiring demolition either due to existing conditions or the inability to survey all existing areas due to occupancy at the time of design. The contractor shall provide a reasonable assumption and include an allocation in the bid to include the removal of said equipment as part of the

12. Raceways - USE ONLY AS ALLOWED BY CODE / AUTHORITY HAVING JURISDICTION.

A. In general, EMT, RMC and IMC shall be used indoors. RMC, IMC and RNC shall be used outdoors and only as allowed by local jurisdiction. RMC & IMC shall be used where subject to physical damage and in mechanical spaces 13. Conductors

B. Electrical metallic tubing (EMT) Hot dipped galvanized, mild steel tube, zinc coated shall be used for all power and lighting branch circuits. EMT fittings shall be of the steel compression or set screw type. Compression type fittings shall be used in all plenum areas, hazardous locations and areas subject to significant dust and or chemical use.

C. Conduit of any size used for communications or data wiring, located indoors, shall be EMT U.N.O. The raceways shall be appropriately sized for the intended cabling. Where low voltage design is not included in the contract documents, the Contractor shall coordinate with the General Contractor or Owner, during bid, to determine appropriate size of conduit

D. Rigid metallic conduit (RMC) or intermediate metal conduit (IMC) Hot dipped galvanized, mild steel tube, zinc coated threads with an outer coating of zinc bichromate shall be used for power conduit 3" diameter or larger, or any size conduit when encased in the floor slab or located in areas subject to damage (IE mechanical spaces, loading docks, etc. below 10'-0"). RSC shall be used for incoming electrical service. U.N.O., any size conduit routed outdoors, or where in direct contact with the earth. Where exposed to corrosive environments or liquids, conduit shall be PVC coated IMC with a zinc supplemental substrate coating. All RSC and IMC fittings and couplings shall be threaded.

E. RNC (PVC) may be used outdoors where allowed by code and indicated on the contract documents. All PVC conduits shall contain a dedicated ground wire. All PVC conduits under parking lots and roadways shall be a minimum schedule 80.

F. Intermediate metal conduit (IMC) Hot dipped galvanized, mild steel tube, zinc coated threads with an outer coating of zinc

G. Flexible metal conduit (FMC): Galvanized or zinc metalized steel, single strip interlocked construction with continuous

H. Armor clad cable (flexible): (AC) Copper conductor wrapped in fire retardant moisture resistant paper, 600 volt, thermoplastic insulation, 90 deg. C, interlocked steel tape armor with continuous bond conductor, armor + bond conductor listed as an EGC installed with matching/recommended fittings and anti-short, insulated bushings.

Metal clad cable (flexible): (MC) Copper conductor, 600 volt, thermoplastic insulation, 90 deg. C, interlocked metallic tape armor with continuous ground conductor wrapped in polypropylene assembly tape and installed with matching/recommended fittings.

J. All empty raceways shall be provided with nylon pull strings. K. Provide a minimum of (4) 1/4" and (2) 1" conduit stubs

above the ceiling at each panel for future connections. L. Minimum conduit size for interior installations shall be 7 unless otherwise indicated or required by local ordinance. Where installed outside, minimum conduit size shall be 4". unless otherwise indicated

M. Where "stub-ups" are indicated, conduit shall be run vertically to a minimum of 6" above finished ceiling or in open areas a minimum of 10'-0" a.f.f. or 6" below deck or into joist space. All stubbed conduits, sleeves, and otherwise open conduits that do not terminate in a fitting or body shall be terminated with bushings.

N. Communications system and low voltage control cabling raceway. Provide raceways for all communications circuits as required. Where allowed by local Code and building management, cabling, where exposed or above accessible ceiling may be run in free-air when properly supported from structure above via bridle rings and/or j-hooks. Provide plenum rated cable as required

O. Temperature controls wiring may be zip tied to the conduit that serves the equipment being controlled. Other communications and low voltage cabling shall not be zip tied to electrical raceway but supported as indicated in part [

P. The raceway system for combination telephone/data outlets shall utilize a 4" square 2-1/8" deep back box with single gang flush wall opening with a 3/4" conduit to the raceway system. Where no raceway system is required, all open ai cabling shall be properly supported by j-hooks, bridle rings etc. from structure above.

Q. Contractor shall coordinate all low voltage work with the Owners low voltage contractors and provide conduit and back boxes as required, sized per Code. Contractor shall assume a minimum of (2) low voltage cables (CAT 6) within each conduit. All low voltage conduit shall be sized per the cable manufacturer's recommendations, current BICSI standards and shall be sized for a maximum of 40% fill capacity. R. All raceways shall be concealed unless noted otherwise

S. Each switch, lighting fixture, receptacle and other miscellaneous devices shall be provided with a galvanized steel outlet box. All unused knockouts and openings must be sealed. Boxes shall be sized per Code and shall allow for adequate space for devices, wiring and wire nuts. Boxes shall be securely and adequately supported from adjacent

T. Final connections to motors, transformers and similar be made with sections of flexible metal conduit. The minimum length shall be 18" and the maximum shall be three feet. Installation of variable frequency drives (VFD's) shall be within manufacturer recommended distances to prevent harmonic and/or reflected wave issues but shall not exceed 70'.

U. In suspended ceilings where recessed lighting fixtures are installed, flexible metal conduit may be used to service the light fixture to an adjacent junction box. The flexible metal

conduit shall be 3/8" minimum, in lengths not exceeding 6'. V. The Contractor may reuse existing raceways wherever possible, provided they are of adequate size, cleaned, in good condition and are properly supported. All wiring shall be new. Where conduit systems are used as a ground path, continuity of ground shall be tested prior to reuse.

W. In suspended ceilings, provide dedicated support for conduit and junction boxes directly from the structure. Do not support electrical systems from ceiling grids, piping, conduit, ductwork, etc. Provide unistrut racking or other approved supports sized to support the load required +25% spare

X. Provide expansion joints fittings as required for thermal expansion and physical movement. Refer to Architectural specifications and plans for more information.

A. Interior branch circuit conductors shall be type THHN/THWN 600V rated insulated copper conductors. Wire that is installed in raceways outdoors, or in damp or wet locations shall be type XHHW-2, 600 volt insulated copper. No wire smaller than no. 12 AWG shall be used for lighting or power wiring. Wire no. 10 and larger shall be stranded. Aluminum conductors shall not be accepted unless specifically called for in the design documents. Terminals shall be dual rated CU/AL.

B. Branch circuit homeruns for 120 volt circuits over 75' long and for 277 volt circuits over 125' long shall be minimally one standard wire size larger than what is required for the ampere rating of protective device. The Contractor i responsible for the adjustment of all feeder sizes as required to accommodate voltage drop. Sizes shown on design documents are minimum sizes. Voltage drop shall be limited to 3% at the farthest device U.N.O.

C. All branch circuits and feeders shall be sized, in parity, to match the over current protective device upstream unless noted otherwise.

D. Isolated grounding receptacle branch circuit wiring shall consist of a dedicated phase, neutral and isolated (insulated) grounding conductors for each circuit.

E. Wire size shown on the contract drawings is a minimum size only. The contractor shall adjust the branch circuit size accordingly to account for the voltage drop. Maximum voltage drop allowed= 3% at the final device.

F. Provide dedicated neutrals for all circuits. Sharing of neutrals is not acceptable.

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# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/07/2019

# **ELECTRICAL SYMBOLS & NOTES**

2019-033 Project number 08-07-19 LV Drawn by Checked by SC

E100

- 11. Grounding
- A. Provide a dedicated grounding conductor for all circuits. Use of the metallic conduit system as a ground path is not
- B. Comply with UL467 for grounding and bonding of equipment. C. Comply with all local jurisdictional requirements for grounding
- D. All service ground connections shall be via a listed non-reversible pressure connector, exothermic welding process or part of a listed assembly. All main grounding system connections shall be accessible for testing.
- E. All new buildings shall be provided with the following ground connections: building steel (where present), connection to incoming water service, UFER ground, ground ring and supplementary ground rod (3/4" x 10'-0" steel). All service grounds shall be installed and bonded per NEC Article 250.
- telecommunication points (NETPOP's, MDF's, IDF's, etc.) shall be provided with a TIA-607-C/BICSI standard, minimum 12 "L x 4"H x ¼" thick, predrilled, copper, telecommunications ground bus with 600V insulated standoff's and 1#6AWG ground connection back to the main building ground unless noted otherwise. 12. Wiring Devices
- A. Devices shall be flush mounted, unless otherwise noted. B. Special receptacles shall be as noted on the drawings or as required by specific equipment. Verify equipment requirements prior to installation. The Contractor shall provide all special outlet boxes that may be required.
- C. Receptacles and switches shall be rectangular decorator style with smooth face, 20A rated, specification grade commercial, back and side wired, plated steel wrap-around bridge, rocker type switch operators and thermoplastic nylon face. Where new receptacles are being provided adjacent to existing match existing receptacle style. Standard finder—groove style receptacles may be used in mechanical or unfinished spaces. In finished spaces, standard finder—groove style receptacles maybe substituted where detailed in the Contractors a bid and approved by the Owner/Architect. Unless noted otherwise, all receptacles shall be mounted vertically with the ground prong up. Where installed adjacent to existing to remain devices, match receptacle orientation unless noted otherwise.
- D. Faceplates shall be thermoplastic nylon and in kitchens or bars Type 302/304 stainless steel, nonmagnetic.
- E. The color of receptacles, switches, dimmers and wall plates shall be as specified by Architect. Isolated grounding outlets and cover plates shall be identified with an orange triangle Provide permanent marking on the inside of cover plate of each wiring device indicating panel and circuit number serving
- F. Contractor shall verify with the Architectural plans, equipment cuts, kitchen equipment drawings, etc. wiring device requirements prior to rough—in and provide per the manufacturers requirements.
- G. Wiring devices shall be manufactured by Hubbell, Leviton or Pass & Seymour-Legrand.
- on. Engrave the nameplate with the name of the equipment. I. All exterior receptacles shall be weatherproof and provided
- with "in-use" covers. J. All single phase receptacles rated 150 volts to ground or less, 50 amps or less and three phase receptacles rated 150 volts to ground or less, 100 amps or less installed in bathrooms, kitchen, outdoors, roof tops, within 6'-0" from the top inside edge of a sink bowl, wet locations, locker rooms containing showers, garages and service bays, crawl
- nuisance tripping. K. All 15A and 20A, 125V and 250V, non-locking type receptacles located in the following areas shall be tamper resistant: child care facilities, pre-K though elementary schools, business offices, corridors, waiting rooms in medical offices. dental clinics and outpatient facilities, gymnasiums, transportation waiting rooms, auditoriums and dormitories.
- 13. Appliance and utilization equipment
  - kitchen appliances, electric water coolers, etc. shall be provided with a permanent electrical connection and accompanying disconnect switch located within sight of the appliance or equipment. Plug and cord sets shall not be allowed. The electrical contractor shall coordinate with the manufacturer and order the correct electrical configuration or field modify the electrical connection as required while still maintaining all prior approvals and listings.
- 14. Floor fittings
- A. Where floor fittings require penetration of or installation in the floor slab, they shall be listed for the purpose and shall have a fire rating equal to the floor rating. Coordinate all device locations with Architect, furniture layout, structural beams and floor construction prior to beginning work. Provide all required flanges, covers, devices, etc. as indicated. Finish selection shall be by the Architect. Include minimum cost for brass coverplate and carpet flange in bid unless noted otherwise. Provide fire caulk or other approved materials to maintain
- floor ratings around poke thru device as required. by Wiremold or Hubbell
- modules as required for the quantity of devices shown. 14.C.1. Provide brass cover plate and flange finish that
- owner prior to ordering. Boxes shall be sealed to match the floor rating.
- Combine power and low voltage devices into the same floor box where possible.
- 14.C.5. Provide a sketch in writing detailing the quantity and locations of EFB10 floor boxes
- 14.C.6. Floor box shall have K.O.'s from 3/4" to 2" Each gang box can support one duplex or six
- 14.C.7. Size floor boxes as indicated below: 14.C.7.1. <u>Wiremold EFB6:</u> 6 gangs max.

- H. Unless noted otherwise, provide pilot switch for control of each exhaust fan. The toggle shall illuminate when the fan is
- spaces and unfinished, uninhabitable portions of basements shall be GFCI. Provide motor rated GFCI breakers in lieu of GFCI receptacles for all kitchen motor and or compressor loads for refrigerators, mixers, blenders, etc. to avoid
- A. All fixed (not portable) appliances and utilization equipment IE

- B. Shallow flush floor boxes shall be adjustable, single gang cast iron construction, with round or rectangular satin finish brass cover plate and matching carpet flange. Manufactured
- C. Floor boxes: Provide Wiremold Evolution floor boxes with matches floor finish type. confirm with architect and
- Boxes shall be set level to the finished floor.

- 14.C.7.2. <u>Wiremold EFB8:</u> 8 gangs max.
- 14.C.7.3. Wiremold EFB10: 10 gangs max. 14.C.7.4. Wi<u>remold EFBFF:</u> provide where furniture feed/whips are required.
- D. Poke Thru's: Provide Wiremold Evolution floor boxes with modules as required for the quantity of devices shown. 14.D.1. Provide brass cover plate and flange finish that matches floor finish type, confirm with architect and
- owner prior to ordering. 14.D.2. Poke thrus shall be sealed to match the floor
- 14.D.3. Poke thrus shall be installed level to the finished
- 14.D.4. Combine power and low voltage devices into the same floor box where possible.
- 14.D.5. Provide a sketch in writing detailing the quantity and locations of 10AT poke thrus.
- 14.D.6. Floor box shall have K.O.'s from 3/4" to 2". Each gang box can support one duplex or six kevstones max.
- 14.D.7. Size floor boxes as indicated below: 14.D.7.1. <u>Wiremold 6AT:</u> 6 gangs max
- 14.D.7.2. <u>Wiremold 8AT:</u> 8 gangs max.
- 14.D.7.3. <u>Wiremold 10AT:</u> 10 gangs max. 14.D.7.4. Wi<u>remold \*ATFF:</u> provide where furniture feed/whips are required.
- A. Remove unused through—floor fittings and patch slab as required to restore its structural integrity. Remove associated conduit raceways and cabling in ceiling space below. Do not abandon through-floor fittings in place.
- B. Provide furniture whips from floor boxes for power and tele/data as required to feed furniture partitions. Provide wiring devices with EMT within furniture partitions where
- A. The Contractor shall verify the ceiling type before ordering lighting fixtures. Fixtures shall be provided with the proper frame or adapter to receive the type of ceiling and come complete with lamps, lenses, end caps, mounting hardware, drivers/power supplies (and enclosures where required) etc. Modify the fixture catalog numbers as required to obtain the necessary options and accessories.
- B. Continuous runs of linear fixtures shall be arranged such that that no more than 6" of any end of a run is unlit. Provide fixtures, fittings, and connectors sized as required to provide a continuously lit cove with no visible shadows or breaks.
- C. Lighting distributor shall provide maximum wattage labels to all fixtures with reduced lamping for energy Code compliance prior to shipping the fixture to the field. D. Each lighting fixture shall be rigidly supported from the
- building construction and shall include suspension hangers, devices and other work for fixture support. Fixtures shall not be supported from the ceiling grid system unless the ceiling system is specifically listed for that use and all the required mounting and supporting hardware is provided.
- E. Clean and refurbish all existing light fixtures to be reused. Replace any failed ballasts and replace all damaged fixture fixture components. Clean, relamp and reballast all existing lighting fixtures at completion of construction.
- F. All light fixtures shall bear the approval of a listed agency such as UL, ETL, CSA, etc. or shall be field tested and labeled in the field prior to installation. Include cost of field labeling in bid.
- G. Provide inline fuse for all fluorescent ballasts. Field install fuses in any fixture not manufactured with a fuse.
- H. Fluorescent and compact fluorescent lamps shall be triphosphor type, color temperature as specified by the architect and a color rendering index of not less than 82. Manufactured by General Electric, Osram-Sylvania, or Philips. Mercury content for all fluorescent lamps shall comply with EPA TCLP standards.
- I. Lamp color, where not specified, shall be 3500K. The Contractor must confirm final lamp temperature with the Architect prior to ordering.
- J. Fluorescent and compact fluorescent lamp ballasts shall be electronic, with a maximum total harmonic distortion less than 10%, high power factor type, class A sound rating, manufactured by General Electric, Sylvania, Advance or
- K. Ballasts shall be programmed start where on vacancy/occupancy sensor operation. Fixtures using T5/T5H0 lamping shall be programmed start only as required by the manufacturer. Ballast factor for T8 lamping shall be not greater than 0.87 unless noted otherwise. Ballast factor for T5/T5H0 lamping shall be not greater than 1.02 unless noted
- L. Burn in fluorescent lamps for a minimum of 100 hrs prior to
- M. All demolished fluorescent lamps shall be properly disposed of per EPA regulations. N. All ballasted fixtures shall include a disconnecting means in accordance with NEC paragraph 410.73 (g). field—install
- disconnecting means where not provided by manufacturer. O. Where exterior fluorescent fixtures or battery packs are provided, all ballasts and/or batteries shall be approved for sub-zero installation locations where applicable for the project
- location. Provide heaters as required. P. Provide dedicated neutrals to all lighting fixtures and for all dimming zones.
- O. The Contractor shall provide as all commissioning services required by the 2015 IECC specifically lighting control. The commissioning shall include all functional testing as defined by the IECC and as indicated in the Lighting Control Narrative provided as part of the project. The Contractor shall hire a licensed professional engineer to perform the commissioning portion of the project.
- R. All exterior lighting fixture shall be wet or damp listed based on installation location.
- S. Light switches, sensors, photosensors, and zoning are shown for design intent. The contractor is expected to provide additional/ancillary components required for a compatible and fully functioning system, such as coordinating dimming technology types, providing power packs, wall stations, coordinating switch bank elevations, confirming faceplate engraving with the owner, etc. In the event that design intent is unclear or requires clarification to provide the appropriate materials, the contractor shall submit a formal written RFI to

- T. Dimmers shall be thin profile with electronic touch switch and linear slide control. Dimmers shall be compatible with the light fixture ballast, driver or low voltage transformers. Where dimmers are installed in a ganged installation or stacked, remove fins between devices. De-rate for heat as required. Install stacked receptacles with a minimum of 4 ½" vertical separation. Provide separate neutrals for each dimmer and one single continuous cover plate for multiple dimmers.
- U. Dimmers shall be Lutron Nova T, series or approved equal. Provide dimmers compatible with dimming technology (ELV, MLV, Forward Phase/Triac, 0-10V, etc.). Minimum dimmer wattage rating shall be the maximum available for a single gang. Provide additional power packs, power extenders, dummy loads, large dimmers (2-gang), and all other equipment/accessories as required to control each zone as indicated. Contractor shall provide any ancillary components as required to ensure compatibility and a fully functioning system. It remains the responsibility of the contractor to coordinate and ensure that the lighting controls and devices being controlled (ballasts, low voltage transformers, drivers, etc) are compatible.
- V. All occupancy / vacancy sensors shall be tested and adjusted prior to turn—over to the occupant. The Contractor shall explain to the Client the operation of the device prior to leaving the site and shall instruct the occupant how to adjust the device post-construction. Manual on/off functionality shall be set according to local energy code requirements. Provide additional testing, adjustments, and documentation as required by the latest IECC Energy Code requirements for "Lighting system functional testing", to be performed by a registered design professional. Include in bid time to return to the project site (30) days and (6) months post-occupancy for the adjustment of all sensor settings.
- A. Provide a fully\_functional extension of the building fire alarm system or new system as indicated on contract drawings. Include all necessary hardware and software improvements and point-to-point wiring diagrams. Provide additional circuits, power supplies and amplification as required. Test, adjust program and recertify the system at the completion of construction. Update all zone maps & schedules as required. 3. All fire alarm devices shall comply with the Americans with
- C. All fire alarm devices shall fully comply with NFPA 72 and ICC/ANSI A117.1-2003, Section 7.702. D. All fire alarm strobes within viewing distance shall be
- synchronized. E. Manufacturer: Match existing.
- F. All new fire alarm systems shall be fully addressable.

Disabilities Act and shall match building standard.

- G. Utilize building approved Contractor where applicable. H. All fire alarm devices shall be installed per NFPA 72 and local requirements. Devices shown are for reference only. Provide quantity of devices and appropriate candela and/or dB levels as required for proper coverage.
- I. Provide addressable fire alarm modules at all water flow and tamper switches as required by the fire protection contractor, Note: due to the design build nature of the fire protection system, these devices may not be indicated on the electrical plans. Coordinate with the general contractor prior to bid.
- J. All fire alarm cabling shall be run in conduit. Where allowed by local code, fire alarm integrity cable may be provided in lieu of full conduit runs with prior approval from the engineer. Cablina shall be plenum approved in return plenum areas. Ir all cases, where fire alarm wiring is exposed to damage (IE exposed below 10'-0" a.f.f.), in run in inaccessible areas or above hard ceilings and within walls, the fire alarm cabling
- shall be run in conduit. K. Include in base bid, cost to install (1) additional audio visual and (1) additional visual device in additional to those indicated on plan to allow for fire department field requests.
- L. The Contractor shall connect the fire alarm to a central station or local fire department or provide radio equipment for monitoring as required based on local jurisdictional or Owner requirements. M. The fire alarm contractor, shall become the role of Engineer of Record for the fire alarm system and affix the designers
- seal or license number as required for permit. The fire alarm designer shall be either a locally registered Professional Engineer or a level IV NICET certified designer. The fire alarm contractor shall submit the formal fire alarm plans, battery calculation, cut sheets, wiring diagrams, etc. as required to the local Authority Having Jurisdiction for review and approval. The fire alarm contractor shall pay all fees associated with securing the fire alarm permit and inspections.
- N. The fire alarm contractor shall provide training for the Owner prior to turn—over for the proper operation and maintenance of the fire alarm system per the manufacturers recommendations.
- 16. Electrical Distribution A. All electrical distribution shall be provided with fully rated,
- B. All new circuit breakers for existing panelboards shall match existing building panelboard manufacturer and breaker type. C. All new circuit breakers for existing panelboards shall be provided with interrupting ratings exceeding the available short circuit current. The Contractor shall be responsible for confirming available fault current.
- D. New panelboards shall utilize bolt on type branch circuit breakers, with withstand ratings exceeding the available short circuit current. Manufactured by Siemens, General Electric, Square D, Eaton or approved equal. Provide full length, copper bussing within panel boards with fully rated neutral. The Contractor is responsible for providing arc flash labeling on the cover of all new electrical equipment. Where required by local Code, the Contractor shall provide detailed arc flash labels at all new and relocated electrical equipment per OSHA/NFPA 70E recommendations including, PPE requirements,

incident energy level, safe working distance, etc.

- E. Provide arc fault circuit breakers for all circuit breakers serving bathrooms, kitchens, family & living rooms, bedrooms and other habitable spaces in residential occupancies F. Coordinate installation of electrical equipment with other trades. Do not install electrical equipment below ductwork, piping, etc. Allow for Code required clearance above all
- G. The Contractor shall review the complete contract documents and provide starters and disconnects as indicated. Where the

- plans are ambiguous or unclear, the Contractor shall include the cost of starters and/or disconnects as required and identify such ambiguity in his bid. Disconnects and starters shall be located within sight of the equipment they are
- serving and be accessible. H. The Contractor may, utilize the overcurrent protective devices within the panel board as the disconnecting means for an appliance or motor ONLY AS ALLOWED BY LOCAL CODE and ONLY WHERE APPROVED BY THE AHJ. All OCPD's used as disconnecting means shall be provided with lock-open devices
- Three-phase motor starters shall be of the combination type consisting of a fused or non-fused disconnect switch and an across—the—line magnetic starter. Starter contactors shall be minimum NEMA Size 1. All three-phase motor starters shall be furnished with solid-state overload relays to protect all three phases. The relays shall be adjusted for the particular motor it is used with, based on actual nameplate data. Provide one set of form C auxiliary contacts, (1 N.O. and 1 N.C.) in each starter. Provide internal control transformer as required. Mount the control transformer inside the starter enclosure. Both primary and secondary sides of the control transformer shall be fused. Provide a hand-off-automatic selector switch on the cover, with motor on/off pilot lights. Manufactured by Siemens, Square D, or equal.
- J. Transformers shall be dry type, listed, with aluminum windings, 220°C class insulation, 150°C temperature rise, totally enclosed except for ventilation openings and six (6) 21/2% voltage taps. Provide vibration isolators. Where floor mounted, mount on 4" concrete pad. Do not mount transformers greater than 45kVA above dropped ceilings. Manufactured by Square D, General Electric, Eaton or Hammond.
- K. Transformers shall meet minimum current energy efficiency levels as defined by the DOE.

L. Surge Protection Devices (SPD's)

16.M.1. SPD shall be listed and labeled as defined in NEC, by UL, and marked for intended location and

entrance OCPD shall be Type 1. SPDs installed on the

load side of the service entrance OCPD shall also be

- 16.M.2. MCOV of the SPD shall not be less than 115% for 480/277V and 125% for 208/120V. 16.M.3. SPDs installed on the line side of the service
- 16.M.4. SPDs installed at distribution panels shall be Type
- SPDs installed at branch panels shall be Type 3. 16.M.6. SPDs shall provide the following accessories and
  - Internal fusing for SPD protection. 16.M.6.2. Indicator lights for power and protection
- 16.M.6.3. Audible alarm with silencing switch. 16.M.6.4. Surge counter with reset switch.
- 16.M.6.5. Integral disconnect for externally mounted SPDs. 16.M.7. SPDs shall have ratings as follows:
- 16.M.7.1. Distribution level: 160kA per phase, 80kA 16.M.7.2. Branch level: 120kA per phase, 60kA per
- 16.M.7.3. Protection modes for L-N, L-G, N-G, L-L. The short circuit interrupting rating of the SPD shall be greater than the available short circuit at the
- point on the system where installed. 16.M.9. Provide a minimum 30A circuit breaker as a dedicated disconnecting means for the SPD unless indicated otherwise. Coordinate exact OCPD size with
- M. Fuses 601 ampere and above shall be 600 volt rated, current limiting, time delay, class L, as manufactured by Bussmann or eaual.
- N. Fuses 600 ampere and below shall be current—limiting. dual\_element, time delay, rejection type, class RK-1, as manufactured by Bussmann or equal. O. Provide minimum 4" concrete housekeeping pad for all floor
- P. For existing equipment to be reused: 16.Q.1. Clean, de-grease and repair as required 16.Q.2. Exercise all breakers, switches, etc. per
- manufacturers and NETA requirements. Replace defective 16.Q.3. Adjust labeling as required to reflect post-construction conditions.

mounted equipment.

- Mechanical/HVAC/Plumbing/Fire Protection 17.A.1. Refer to the mechanical drawings for exact location of motors.
- 17.A.2. Contractor shall wire, set and connect all individual motors, controls and equipment. 3. Provide local disconnect switches for all motors. All disconnects, starters, variable frequency drives, etc. installed by the Electrical Contractor shall be installed so as to provide the Code required clearances. Locations are shown for

reference only. The Contractor shall coordinate with all trades

- prior to rough—in. Wired office furniture A. The Contractor receive, set, assemble and connect to the electrical components of the prewired electrified modular office furnishings. Install all components for a fully functional electrical system, where required, the Contractor shall provide all raceways, boxes, wiring and outlets for a complete hardwired electrified modular furniture system. All equipment, raceways, boxes, etc. shall be listed and/or labeled and shall
- meet the furniture manufacturer's requirements. B. Contractor shall coordinate the furniture wiring harness with circuiting arrangement shown. Provide additional wall fittings, junction boxes, or poke through fittings to accommodate the circuiting arrangement as shown. C. Provide circuits as shown via floor or wall fittings or junction
- boxes as indicated on plans with flexible conduit connections. Coordinate all furniture connection locations with Architect and furniture layout. D. Refer to plans for quantity of devices per workstation or refer

to details provided by the Architect.

- E. Set and connect all task lighting fixtures.
- F. Coordinate power outlet and communication outlet locations in the furniture base prior to installation of raceway. Utilize furniture base knockouts for the power outlet locations. Provide additional openings in the furniture base required to install the communications outlets as required.
- G. Where circuits for general and computer power are located in the same homerun, do not share neutrals between general and computer power circuits.
- H. Furniture whips shall not be greater than 4'-0" in length and shall be concealed wherever possible. Whips shall not be located in areas where they can pose a tripping hazard. I. All poke throughs and floor fitting locations shall be coordinated with the Architect and Structural Engineer and the

contractor shall obtain a sign—off prior to cording.

- Execution and completion
- A. Refer to architectural drawings for exact locations and
- mounting heights of the electrical equipment. B. Unless otherwise noted, mounting heights shall be as follows: C. Receptacles and communications outlets shall be
- mounted 18" A.F.F. to center. Refer to plans for orientation. D. Switches shall be mounted 42" A.F.F. to center or unless indicated differently on the Architectural drawings.
- E. Above—counter outlets and switches shall be mounted a 48"A.F.F. to center, but shall be coordinated with the
- F. Wall-mounted telephones shall be mounted 48" A.F.F. to
- G. Fire alarm devices: 19.G.1. Audible, visual or combination audible/visual alarm devices, where wall mounted, shall be mounted 80"A.F.F. to centerline or 6" below ceiling, whichever is lower.
- 19.G.2. Manual pull stations shall be wall-mounted 48" A.F.F. to center. 19.G.3. Audible and visual duct detector test stations
- shall be wall mounted 48" A.F.F. to center. H. Contractor shall give careful consideration to existing conditions including columns, beams, suspended ceilings, pipes, ductwork, expansion joints, etc. Contractor shall coordinate with all other trades and install electrical appurtances so as to maximize headroom and maintain code required clearances in all cases. The contractor shall notify the Architect/ Engineer where conflicts occur prior to rough-in. The contractor, under no circumstances, shall penetrate or otherwise modify structural members including but not limited to structural slabs/ floors, ceilings, beams, walls, columns, etc. without prior written approval from the electrical engineer
- and structural engineer and/ or architect. I. The contractor shall make every effort to minimize noise during construction. Noise shall be kept within maximum OSH/ recommended levels and/or other local authorities having jurisdiction. Numbered circuits are for convenience of design only; field conditions may vary. Indicate the actual circuit numbers used on the "as-built" drawings.
- J. Electrical Contractor shall comply with all recommended arc flash safety practices per NFPA70E. Utilize appropriately rated personnel protective equipment (PPE) as required. Where new electrical distribution equipment is being installed or existing is significantly modified, contractor shall provide updated arc flash boundary hazard warning labels.
- accordance with wiring method requirements for air handli ceiling spaces. Refer to the mechanical and architectural drawings for plenum areas and additional information. L. Unless otherwise notes, all floor mounted equipment shall be

installed on a 4" concrete housekeeping pad with appropriate

K. All work installed within the ceiling plenum shall be in

- bolts or rods to secure the pad to the floor slab. 20. Closeout & Turn Over A. Upon completion of construction, the Contractor shall balance each panel so that there is no more than 10% difference
- between phases. The load shall be monitored during the peak demand period. B. The Contractor shall provide new typewritten panel directories for all panels changed or added. Provide engraved plastic labels permanently attached (no adhesives) for all new panels
- and distribution equipment. C. Prior to turn-over, the Contractor shall provide written documentation certifying that all equipment and systems have been properly installed per code, cleaned, adjusted and

project has been awarded will be provided.

- D. The Contractor shall provide all operation and maintenance
- manuals for all equipment at turn-over. E. The Contractor shall provide original "as-built" documents in both hard copy and AutoCAD drawing files. Submit as-built drawings to Engineer. Cost to produce these documents shall be included in the bid. No additional compensation after the
- F. Contractor Final Payment Final payment shall be withheld until the receipt of final certification of occupancy, approval as-builts, and owners training and corrections of all deficiencies and punch list items have been received. 20.G.1. The Engineer, at his discretion may make portions
- of the contract documents available in electronic format. These documents are proprietary and remain the Engineer's property and shall be used solely with respect to this project. The documents will be provided for the convenience of the user, for use in preparing shop drawings and/or coordination drawings related to the construction of this project only. The engineer shall be held harmless for the use of the electronic documents by Others.
- 20.4.2 "As-Built" documents shall include all revisions, bulletins, addenda, etc. included as a part of the project.

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# STACKED PICKLE

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CONCOURSE A, LEVEL 3, SPACE AF-7

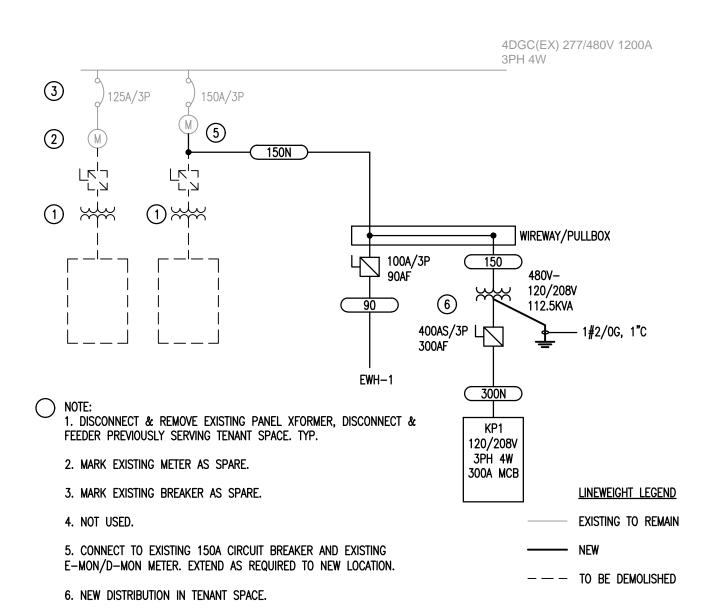
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**ELECTRICAL SPECS** 

Project number 2019-033 08-07-19 Drawn by LV Checked by

#### **ELECTRICAL DEMOLITION NOTES**

- 1. DUE TO OCCUPANCY, NOT ALL AREAS MAY HAVE BEEN AVAILABLE FOR SURVEY DURING DESIGN. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL AREAS WITHIN THE SCOPE OF WORK PRIOR TO SUBMITTING HIS BID. ANY AREAS IN QUESTION OR THAT COULD NOT BE OBSERVED SHALL BE OUTLINED IN THE CONTRACTORS BID. ADDITIONAL COMPENSATION FOR FAILURE TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS WILL NOT BE APPROVED. EXISTING SYSTEMS ARE SHOWN BASED ON VISUAL INSPECTION AND AS-BUILT/DESIGNED DOCUMENTS AND MAY NOT REFLECT ACTUAL CONDITIONS.
- 2. WHERE ELECTRICAL EQUIPMENT IS DESIGNATED TO BE REMOVED IT SHALL BE REMOVED IN ITS ENTIRETY INCLUDING ALL CONDUIT, WIRING, BACK BOXES, ETC. BACK TO SOURCE. CONDUIT WHICH IS BURIED OR OTHERWISE INACCESSIBLE DUE TO PERMANENT BUILDING STRUCTURES SHALL HAVE ALL CABLES REMOVED, CAPPED, FILLED WITH GROUT AND ABANDONED IN PLACE FLUSH WITH FINISHED SURFACE. CONTRACTOR SHALL MARK ORIGIN AND TERMINATION OF CONDUIT ON CAPS.
- 3. ALL LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. VERIFY EXACT LOCATIONS IN FIELD.
- 4. CONTRACTOR SHALL ADVISE THE OWNER PRIOR TO THE DISCONNECTION OF ANY EXISTING SYSTEMS. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS TO ANY EXISTING ELECTRICAL SYSTEMS WHICH ARE EXISTING TO REMAIN. TEMPORARY SYSTEMS SHALL INCLUDE BUT ARE NOT LIMITED TO FEEDERS, PANEL BOARDS, DISCONNECTING MEANS, GENERATORS, TRANSFER SWITCHES, ETC. CONTRACTOR MAY USE EXISTING DISTRIBUTION FOR TEMPORARY (NO CONSTRUCTION) POWER WITH PRIOR APPROVAL FROM THE OWNER AND CONFIRMATION OF ADEQUACY OF
- 5. THE CONTRACTOR SHALL RECONNECT AND EXISTING POWER, LOW VOLTAGE, FIRE ALARM, ETC. CIRCUITS DISTURBED DURING THE COURSE OF DEMOLITION.
- 6. THE CONTRACTOR SHALL DISCONNECT AND MAKE SAFE FOR REMOVAL BY OTHERS, ANY EXISTING MECHANICAL, PLUMBING, FIRE PROTECTION EQUIPMENT OR EQUIPMENT PROVIDED BY OTHERS INDICATED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS TO FULLY UNDERSTAND THE SCOPE OF WORK.
- 7. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS FOR SCOPE OF DEMOLITION WORK AND SHALL DISCONNECT AND REMOVE ALL LIGHTING, RECEPTACLES, FEEDERS, BOXES, DISCONNECTS, LIGHTING CONTROLS, FIRE ALARM DEVICES, LOW VOLTAGE DEVICES, SPEAKERS, ETC. SHOWN ON WALLS FLOORS AND CEILINGS INDICATED TO BE REMOVED.
- 8. THE CONTRACTOR SHALL PROVIDE TEMPORARY EXIT SIGNS AND EMERGENCY LIGHTING AS REQUIRED FOR ALL TEMPORARY EGRESS PATHS CREATED DURING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT/OWNER AND PROVIDE ANY TEMPORARY FIRE PROTECTION DEVICES AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
- 10. THE CONTRACTOR SHALL DISCONNECT, REMOVE AND REINSTALL ANY CEILINGS, LIGHTS, SPEAKERS, ETC. REQUIRED WHERE THE ROUTING OF NEW FEEDERS REQUIRES CEILING REMOVAL.
- 11. THE CONTRACTOR SHALL REVIEW WITH THE OWNER PRIOR TO SUBMITTING OF BID ANY EXISTING ELECTRICAL EQUIPMENT AND OR DEVICES TO BE REMOVED THAT THE OWNER WISHED TO RETAIN. ALL OTHER ITEMS SHALL BE APPROPRIATELY DISPOSED OF BY THE CONTRACTOR.
- 12. THE DEVICES AND EQUIPMENT INDICATED BY DEMOLITION SYMBOLS ON THE PLANS ARE NOT NECESSARILY THE LIMITS OF THE WORK INVOLVED IN THE RENOVATION. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE COMPLETE SET OF ENGINEER & ARCHITECTURAL PLANS FOR ALL TRADES AND PERFORM A DETAILED FIELD SURVEY DURING THE BIDDING PERIOD TO ENSURE THAT THE ENTIRE SCOPE OF WORK INVOLVED IS INCLUDED in the bid price.
- 13. WHERE EXISTING ELECTRICAL DEVICES ARE TO REMAIN AND NEW FINISHES ARE TO BE INSTALLED, E.C. SHALL REMOVE AND REINSTALL ELECTRICAL DEVICES AS REQUIRED. PROVIDE EXTENSION RINGS AS REQUIRED TO BRING EXISTING DEVICES TO LEVEL OF NEW FINISHES. COORDINATE WORK





	IND Stac	Keu Fick	le					_					
Tag:	KP1											720 12	
	Load			3.0	1991	-	722		102	223		Load	
Load	type	A 4500	В	С	Amps	No.	No.	Amps	A 5044	В	С	type	Load
#E3 - GRIDDLE	K	4566	4566		60	3	2	60	5644	5644		K	#E4 - FRYER
ST	К		- 1111		ST	5	6	8			5644	K	
#E5 - REF EQUIPMENT STAND	K	1248			20	7	8					K	ST
ST	K	12.13	2		ST	9	10			5644		K	
	K			832	00	11	12	60			5644	K	#E4 - FRY ER
#E6 - EXHAUST HOOD SYSTEM	K	832			20	13	14		5644			K	
SPARE	S				20	15	16					K	ST
#E1 - SANWICH/SALAD PREP-REF	K			384	20	17	18				5644	K	
#E2 - UNDERDOUNTER FREEZER	К	540			20	19	20	60	5644			K	#E4 - FRY ER
#E14 - MICROWAVE OVEN	K	72.3.2	1560		20	21	22	1.500.00		5644		K	
#E15A - HEAT LAMP	K		1111	2196	25	23	24					K	ST
#E9 - UNDERCOUNTER	К	3328				25	26					K	
DISHMACHINE	К		3328		40	27	28					K	#E24A - COOLER REFRIGERATION
#E24 - WALK-IN COOLER	К			1800	20	29	30	9				K	PAK
#E12 - UNDERCOUNT ICE MACHINE	К	1284			20	31	32		1061			K	#E25 - REFRIGERATED SELF-
#E12 - UNDERCOUNT ICE MA CHINE	К		1284		20	33	34	20	100000	1061		K	SERVICE CASE
#E19 - TOASTER - CONVEYOR	К			1600	20	35	36	20		1.5.5.1	1080	K	#E101A - DRAFT BEER COOLER
	К	2882			16433	37	38	20	1080			K	#E101B - DRAFT BEER COOLER
#E10 - CONVECTION OVEN	К		2882		30	39	40	20		660		K	#E102 - GLASS FROSTER
	К			2882	1	41	42	20			576	K	#E110 - REFRIGERATED BACK BA
TV	R	1200			20	43	44	20	1200			L	SIGN-1
TV	R		1200		20	45	46	20		1200		L	SIGN-2
TV	R			1200	20	47	48	20			1200	L	SIGN-3
TV	R	1200			20	49	50	20	1200			L	SIGN-4
TV	R		800		20	51	52	20		600		L	LIGHTING
POS @ SERVER STATION	R			1000	20	53	54	20			580	L	LIGHTING
POS @ BAR	R	800			20	55	56	20					SPARE
PLUGMOLD RECEPTACLE	R		600		20	57	58	20					SPARE
PLUGMOLD RECEPTACLE	R			800	20	59	60	20					SPARE
USB RECEPTACLES ALONG BAR	R	1000			20	61	62	20	1200			Ĺ	ILLUMINATED SIGNAGE
USB RECEPTACLES ALONG BAR	R		1000		20	63	64	20		1200		L	ILLUMINATED SIGNAGE
CP-1	EQ			200	20	65	66	20			5	L	EXIT SIGN
TELECOM RECEPTA CLE	R	400			20	67	68	20				S	SPARE
TELECOM RECEPTACLE	R		400		20	69	70	20				S	SPARE
SPARE	S				20	71	72	20				S	SPARE
SPARE	S				20	73	74	20				S	SPARE
SPARE	S				20	75	76	20				S	SPARE
SPARE	S				20	77	78	20				S	SPARE
SPARE	S				20	79	80	20				S	SPARE
SPARE	S				20	81	82	20				S	SPARE
SPARE	S				20	83	84	20				S	SPARE
Subtotal#1		19280	17620	12894					22673	21653	20373		Subtotal#2
Subtotal #2		22673	21653	20373				-	22010	21000	20010		- SNOW! #L
Subtotal #1 + #2		41952		33267									
Tatal Barrell and	111 =	K)/A		247.0	Am	22	6.7	Da	I America				
Total Panel Load:	114.5		4W		Amps	23	6.7 22k	Demano	Amps				
	120/208V	A MCB	-+ v v		thstand:		22K						
Mains: Mounting:				Spcl. pro			IP A 5 . 1	CEAUTO	F=GROUND	EATHER	GECLIC 10	CKON	8/7/20
Notes:	SEEPLA	140					AF#AH	C FAULT, G	, - a n o u N D		J. C. L. LU = LU	CRUN	0///20

FEEEDER SCHEDULE										
		3 PHASE, 4 WI			3 WIRE					
OCPD	No. Sets	Conductors	EGC	C. (in)	C. (in)					
20	1	<b>4#</b> 12	12	3/4	3/4					
25	1	<b>4#</b> 10	10	3/4	3/4					
30	1	<b>4#</b> 10	10	3/4	3/4					
35	1	<b>4 #</b> 8	10	3/4	3/4					
40	1	4 #8	10	3/4	3/4					
45	1	4 #8	10	3/4	3/4					
50	1	4 #8	10	3/4	3/4					
60	1	4 #6	10	1	3/4					
70	1	4 #4	8	1-1/4	1					
80	1	4 #4	8	1-1/4	1					
90	1	4 #3	8	1-1/4	1					
100	1	4 #2	8	1-1/4	1-1/4					
125	1	4 #1	6	1 1/2	1-1/4					
150	1	4 #1/0	6	2	1-1/2					
175	1	4 #2/0	6	2	1-1/2					
200	1	4 #3/0	6	2	2					
225	1	4 #4/0	4	2-1/2	2					
250	1	4 #250 Kcmil	4	2-1/2	2					
300	1	4 #350 Kcmil	4	3	2-1/2					
400	1	4 #600 Kcmil	3	3-1/2	3					
450	2	4#4/0	2	2-1/2	2					
500	2	4 #250 Kcmil	2	3	2					
600	2	4 #350 Kcmil	1	3	2-1/2					
800	2	4 #600 Kcmil	1/0	3-1/2	3					
1000	3	4 #500 Kcmil	2/0	3-1/2	3					
1200	3	4 #600 Kcmil	3/0	3-1/2	3					
1600	4	4 #600 Kcmil	4/0	3-1/2	3					
2000	5	4 #600 Kcmil	250 Kcmil	3-1/2	3-1/2					
2500	6	4 #600 Kcmil	350 Kcmil	3-1/2	3-1/2					
3000	8	4 #500 Kcmil	500 Kcmil	3-1/2	3					
4000	10	4 #600 Kcmil	500 Kcmil	4	3-1/2					

WITH NEUTRAL, 4 WIRE. "400" INDICATES 400 OCPD, 3 WIRE. "400N2" INDICATES 400 OCPD, 5 WIRE (DBL. NEUTRAL). "400NIG" INDICATED 400 OCPD, 5 WIRE (ISOLATED GROUND)

SILH	OUETT	
DESIGN	ARCHITECTU	JR

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STRUCTURAL CONSULTANT: Yun Associates, LLC 1775 K St, NW Suite 220 Washington, DC, 20006 T. (202) 849-3075 byun@yunassociates.com

#### MECHANICAL EQUIPMENT SCHEDULE E.C. PROVIDED **EQUIPMENT** DESCRIPTION TAG REMARKS CKT# AMPS MCA OCPD kW HP STARTER DISC. VOLT/PHASE PANEL FEEDER ELECTRIC WATER HEATER N/A 90A EWH-1 4DGC(EX) 64.69A 3P/100A NUMBER IN THE FIELD N/A 20A 200 N/A 1P/20A CP-1 120/1 KP1 N/A CIRCULATING PUMP N/A 2#12,1#12G-3/4"C

1. REFER TO MECHANICAL PLANS AND SCHEDULES PRIOR TO ROUGH-IN.

2. ALL STARTERS SHALL BE COMBINATION STARTER/DISCONNECTS U.N.O. 3. ALL STARTERS/DISCONNECTS SHALL BE LOCATED WITHIN SIGHT OF THE EQUIPMENT SERVED, AT A LOCATION APPROVED BY THE ARCHITECT U.N.O.

4. ALL EXTERIOR STARTERS/DISCONNECTS SHALL BE IN NEMA 3R ENCLOSURES U.N.O.

5. ALL CIRCUIT BREAKERS SERVING MULTI-MOTOR MECHANICAL EQUIPMENT SHALL BE HACR RATED. 6. PROVIDE 3/4" EMPTY CONDUIT AND BACKBOX AT T-STAT OR SENSOR WITH CONDUIT ROUTED BACK TO UNIT SERVED FOR USE BY T.C.C. 7. PROVIDE 1/2"C FROM BAS TO EACH ASSOCIATED MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS AND SPEC'S FOR MORE INFO. 8/7/2019 17:43

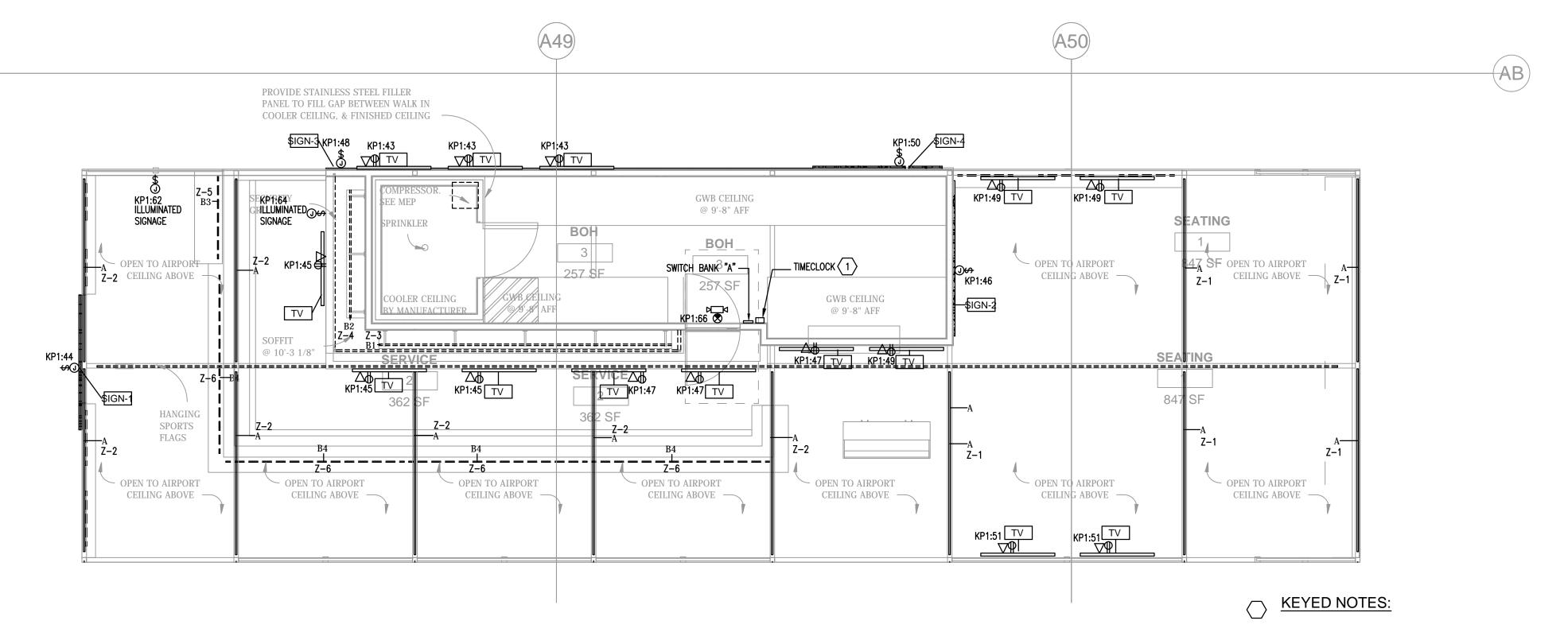
# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/07/2019

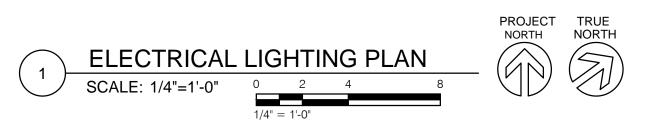
# **ELECTRICAL DETAILS &** SCHEDULES

2019-033 Project number 08-07-19 Drawn by Checked by



1. LOCATION OF TIMECLOCK. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.

8/7/2019 17:45



	Lighting Zone Schedule														
Zone	Switch bank	Area served	Fixture tag	Load type	Qty.	Fixture wattage	Total Watts	Panel	Ckt	Remarks					
1	Α	SEATING	А	VERIFY	50'	5W/FT	250	KP1	52	DIMMER-TMC-OVERRIDES					
2	Α	SERVICE	А	VERIFY	70'	5W/FT	350	KP1	52	DIMMER-TMC-OVERRIDES					
3	Α	BAR	B1	VERIFY	48'	5W/FT	250	KP1	54	DIMMER-TMC-OVERRIDES					
4	Α	BAR	B2	VERIFY	21'	5W/FT	105	KP1	54	DIMMER-TMC-OVERRIDES					
5	Α	BAR	В3	VERIFY	4'-6"	5W/FT	25	KP1	54	DIMMER-TMC-OVERRIDES					
6	Α	BAR	B4	VERIFY	40'	5W/FT	200	KP1	54	DIMMER-TMC-OVERRIDES					
									8/7/2019	8/7/201					

- 1. PROVIDE DIMMER TO MATCH LOAD TYPE AND WATTAGE. VERIFY WITH FINAL LIGHT FIXTURE SHOP DRAWINGS PRIOR TO PURCHASE.
- 2. PROVIDE DEDICATED NEUTRAL FOR EACH CONTROL ZONE.
- 3. ALL LIGHTING NOT CONTROLLED VIA LOCAL SENSOR SHALL BE ROUTED THROUGH THE RELAY PANEL FOR AUTOMATIC ON/OFF CONTROL. REFER TO DETAIL.
- 4. ALL EMERGENCY LIGHTING SHALL BE CONNECTED TO THE ROOM LIGHTING CIRCUIT IN WHICH IT IS LOCATED, AHEAD OF ANY SWITCH FOR CONTINOUS OPERATION. 5. ALL EXIT SIGNS SHALL BE ON A DEDICATED, LOCK-ON, 24/7/365 CIRCUIT.
- 6. REFER TO PLANS AND DETAILS FOR SWITCH BANK INFORMATION.
- 7. COORDINATE INSTALLATION OF DIMMER SWITCHES WITH MANUFACTURERS REQUIREMENTS. DE-RATE GANGED SWITCHES AS REQUIRED. PROVIDE MINIMUM OF 4 1/2" VERTICAL SPACING BETWEEN DIMMER SWITCHES.

	LIGHTING FIXTURE SCHEDULE														
		LAMPS	/LUMINAIRE	CONTROL	LUMINAIRE										
TAG	LUMINAIRE DESCRIPTION	QTY	TYPE	TYPE	MAX VA	VOLTS	MOUNTING	MANUFACTURER & CATALOG NUMBER	REMARKS						
А	LED CHANNEL LIGHT	1	LED	VERIFY	5W/FT	120	I MEDIEV	SEE ARCHITECTURAL FIXTURE SCHEDULE							
B1	FLEXIBLE UNIFORM LIGHTING	1	LED	VERIFY	5W/FT	120	I CHDEACE	SEE ARCHITECTURAL FIXTURE SCHEDULE							
B2	FLEXIBLE UNIFORM LIGHTING	1	LED	VERIFY	5W/FT	120	I CHIDEACE	SEE ARCHITECTURAL FIXTURE SCHEDULE							
В3	FLEXIBLE UNIFORM LIGHTING	1	LED	VERIFY	5W/FT	120	I CHDEACE	SEE ARCHITECTURAL FIXTURE SCHEDULE							
В4	FLEXIBLE UNIFORM LIGHTING	1	LED	VERIFY	5W/FT	120	I CHDEACEL	SEE ARCHITECTURAL FIXTURE SCHEDULE							
EXIT	THERMOPLASTIC EXIT SIGN, RED LETTERING IN WHITE HOUSING WITH BATTERY BACKUP	1	5W PER FACE LED	-	5	120	SURFACE/WALL	PHILIPS CHLORIDE: CXXL-3-R-W	PROVIDE MOUNTING, DIRECTIONAL ARROW, AND DUAL FACES AS REQUIRED						
PACK	WHITE THERMOPLASTIC WALL OR CEILING/PENDANT MOUNTED BATTERY PACK WITH TWO 6V, 6W HEADS, 90 MINUTE BATTERY	2	12W	-	12	120	SURFACE/WALL	PHILIPS CHLORIDE: CTX6L12-W-CSWA							

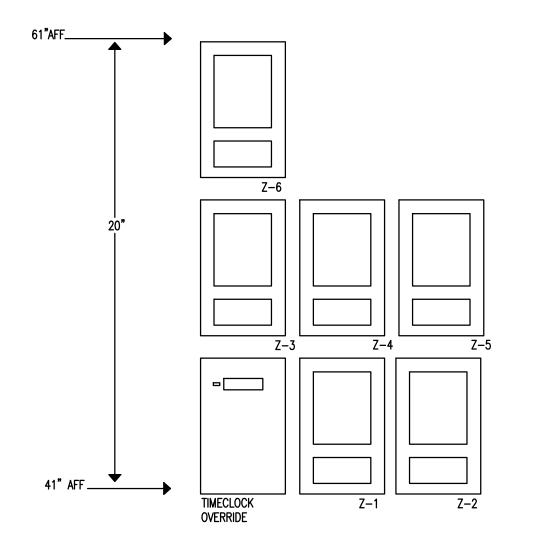
1 REFER TO ARCHITECTURAL SCHEDULE FOR EXACT INFORMATION, INCLUDING MANUFACTURER, MODEL NUMBER, COLORS, FINISHES, TRIMS, LAMP COLOR TEMPERATURE, AND CEILING TYPES.

- 2 REFER TO ARCHITECTURAL SHEETS FOR WALL, COLUMN, AND PENDANT MOUNTING HEIGHTS UNLESS NOTED OTHERWISE
- 3 PROVIDE DIMMING BALLASTS/DRIVERS WHERE REQUIRED. COORDINATE CONTROL TYPE PRIOR TO BID. REFER TO FLOOR PLANS AND LIGHTING CONTROL SCHEDULES FOR MORE INFORMATION. COORDINATE EXACT CONTROL REQUIREMENTS WITH LIGHTING MANUFACTURERS AND COORDINATE WITH CONTROL MANUFACTURERS PRIOR TO BID.
- 4 PER ARTICLE 410: ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE OR BALLASTED FIXTURES THAT ARE SUPPLIED FROM MULTIWIRE BRANCH CIRCUITS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECT MEANS EITHER INTERNAL OR EXTERNAL TO EACH FIXTURE, TO DISCONNECT SIMULTANEOUSLY FROM THE
- SOURCE OF SUPPLY ALL CONDUCTORS OF THE BALLAST, INCLUDING ANY GROUND CONDUCTORS. DISCONNECT MEANS SHALL BE LOCATED SO AS TO BE READILY ACCESSIBLE TO QUALIFIED PERSONS BEFORE
- 5 E.C. SHALL COORDINATE VOLTAGES REQUIRED FOR FIXTURES PRIOR TO ORDERING.
- 6 ALL FIXTURES SHALL BE UL OR ETL LISTED
- 7 ALL FIXTURES SHALL BEAR A MAXIMUM WATTAGE LABEL AS INDICATED ABOVE. THE DISTRIBUTOR SHALL AFFIX THE MAX WATTAGE LABEL PRIOR TO SHIPMENT WHERE A REDUCTION IN MAXIMUM WATTAGE IS REQUIRED FOR ENERGY CODE COMPLIANCE

LIGHTING GENERAL NOTES

WHERE POSSIBLE.

- 1. ALL 20A BRANCH CIRCUITS SHALL USE #12AWG CONDUCTORS IN 3"C MINIMUM. CONTRACTOR SHALL PROVIDE HOMERUNS TO ELECTRICAL PANELS AS REQUIRED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR A MAX. OF (1) NETWORK PER HOMERUN. ALL FEEDERS OR BRANCH CIRCUITS GREATER THAN 75' IN LENGTH SHALL BE
- INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP. 2. LOCATE EXIT SIGNS AND DOWNLIGHTS IN THE CENTER OF CEILING TILES
- 3. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF DEVICES.
- 4. BATTERY EMERGENCY LIGHTING SHALL BE CONNECTED TO THE ROOM LIGHTING CIRCUIT, AHEAD OF ANY SWITCH OR CONTROL FOR CONTINUOUS OPERATION. EXIT SIGNS SHALL BE CONNECTED TO A DEDICATED, LOCK ON CIRCUIT AND SHALL BE PROVIDED WITH A DEDICATED FEEDER AND HOMERUN.
- 5. ALL EGRESS LIGHTS SHALL BE PROVIDED WITH DUAL LAMPS.
- 6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS FOR GENERAL LIGHTING. EXIT SIGN AND EMERGENCY LIGHTING SHALL BE BASED ON THE ENGINEERING PLANS. SUBMIT EXITING AND EMERGENCY LIGHTING LAYOUT TO CITY OFFICIALS PER SPECIFICATIONS AND ADJUST LOCATIONS AS REQ'D. PROVIDE PER UNIT COST IN BID FOR FUTURE EACH ADDED EXIT SIGN AND/OR BATTERY EM
- COORDINATE THE EXACT MOUNTING OF ALL EXIT SIGNS WITH ARCHITECT PRIOR TO ORDERING. COORDINATE LOCATIONS WITH DOOR SWINGS. SOFFITS, OBSTRUCTIONS, ETC TO AVOID CONFLICTS. PROVIDE PENDANTS AS REQUIRED. PROVIDE DUAL FACES AND DIRECTIONAL ARROWS AS
- 8. WHERE MULTIPLE SWITCHES ARE MOUNTED AT THE SAME LOCATION. ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE COMMON FACEPLATE WHENEVER POSSIBLE. UTILIZE TAP SWITCHES TO MATCH DIMMERS WHERE APPLICABLE. REFER TO POWER PLANS FOR ANY MOTORIZED SCREEN OR EXHAUST FAN CONTROLS.
- 9. COORDINATE INSTALLATION OF DIMMER SWITCHES WITH MANUFACTURERS REQUIREMENTS. DE-RATE GANGED SWITCHES AS REQUIRED. PROVIDE MINIMUM OF 4  $\frac{1}{2}$ " VERTICAL SPACING BETWEEN DIMMER SWITCHES.
- 10. TYPICAL-ALL NEW UNDER CABINET LIGHTING FIXTURES; COORDINATE EXACT LENGTHS AND INFEED POINTS WITH MILLWORK CONTRACTOR.
- 11. PROVIDE DEDICATED NEUTRAL TO EACH FIXTURE.
- 12. PROVIDE TIME CLOCK FOR THE CONTROL OF THE OPEN OFFICE AREA LIGHTING, TIME CLOCK SHALL BE AN INTERMATIC, ET90815CR OR EQUAL. 120V 8 CKT, 100 HR. BATTERY BACKUP WITH LOCAL OVER RIDE SWITCH (MAX. 2HRS.) TIME CLOCK







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# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

No.	Description	Date			
	30% SUBMITTAL	06/07/2019			
	90% SUBMITTAL	08/07/2019			

ELECTRICAL LIGHTING PLAN

2019-033 08-07-19 Drawn by Checked by

E200

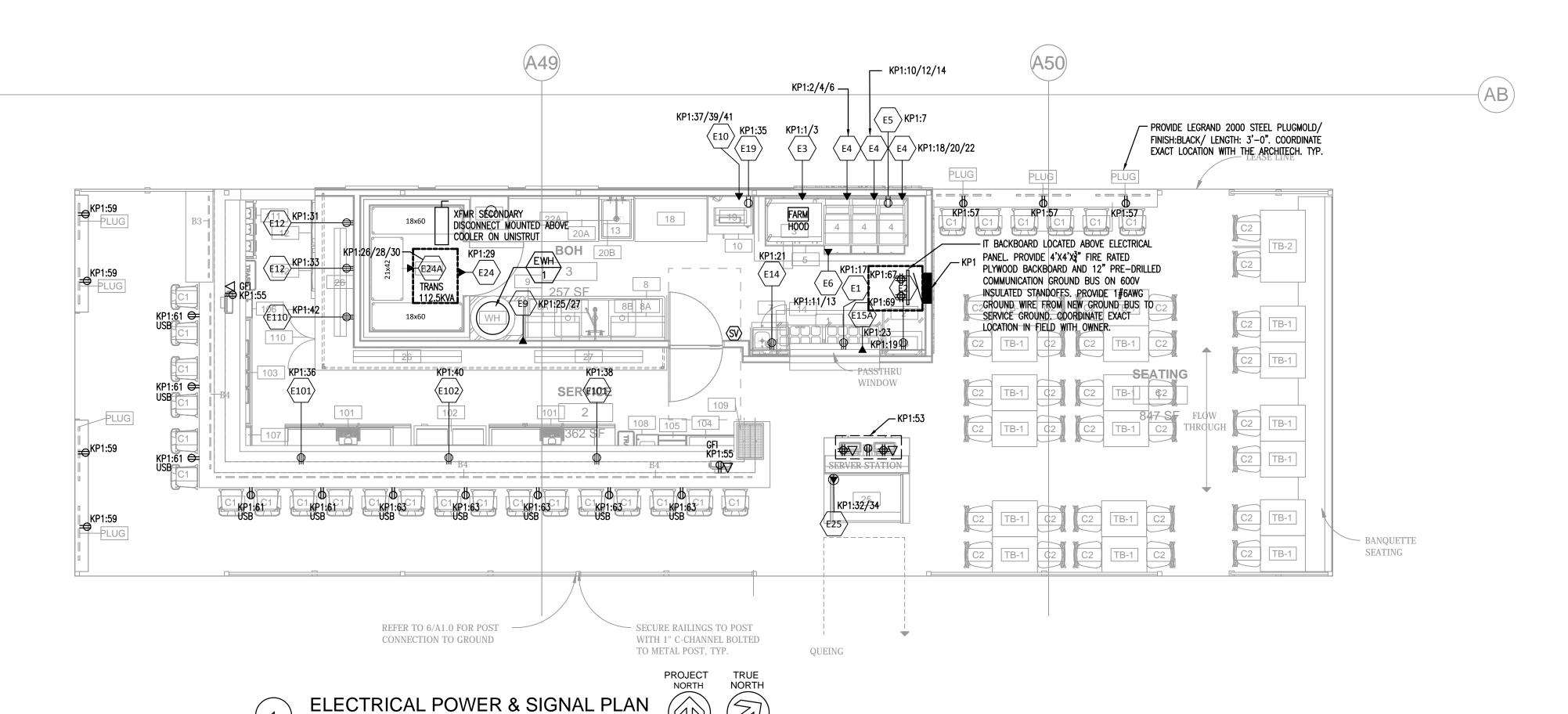
	ELECTRICAL SCHEDULE														
ITEM NO.	QTY.	ITEM DESCRIPTION	ITEM REMARKS	ELECT. NO.	AMPS	WATTS	НР	VOLTS	PHASE	CONN TYPE	ELECT. HGT. (AFF)	ELECTRICAL REMARKS			
1	1	SANDWICH/ SALAD PREP-REFRIGERATOR		E1	3.2		3/8	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECPETACLE.			
2	1	UNDERCOUNTER FREEZER		E2	4.5		1/4	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECPETACLE.			
3	1	GRIDDLE, 36"		E3	43.9	9,130		208V-240V	1	DIRECT	24"				
4	3	FRYER, 40LBS - COUNTERTOP TOP		E4	47.0	17,000		208V	3	DIRECT	24"				
5	1	REFRIGERATED EQUIPMENT STAND		E5	10.4	1,200	1/3	120V	1	CORD & PLUG	24"	E.C. PROVIDE DUPLEX RECPETACLE.			
6	1	EXHAUST HOOD SYSTEM - VENTLESS		E6	8.0		1 1/2	208V-240V	1	DIRECT	0"	ROUGH-IN TO BE DFA. E.C. WIRE TO HOOD CONTROLS AS REQUIRED.			
9	1	UNDERCOUNTER DISHMACHINE		E9	32.0	6,000	1	208V	1	DIRECT	16"				
10	1	CONVECTION OVEN		E10	24.0	5,600	1/4	208V	3	DIRECT	16"				
12	2	UNDERCOUNTER ICE MACHINE W/ FILTER		E12	10.7	1,230	3/4	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.			
14	1	MICROWAVE OVEN		E14	13.0	1,550		120V	1	CORD & PLUG	54"	E.C. PROVIDE DUPLEX RECPETACLE.			
15A	1	HEAT LAMP		E15A	18.3	2,200		120V	1	DIRECT		ROUGH-IN TO BE DFA. E.C. WIRE TO AND THRU CONTROLS AS REQUIRED.			
19	1	TOASTER - CONVEYOR		E19	13.3	1,600		120V	1	CORD & PLUG	48"	E.C. PROVIDE DUPLEX RECEPTACLE.			
24	1	WALK-IN COOLER		E24	15.0			120V	1	DIRECT		ROUGH-IN TO BE DFA. LIGHTS, HEATERS AND CONTROLS. SEE SHOP DRAWINGS.			
24A	1	COOLER REFRIGERATION PAK		E24A	0.0		0	208V	3	DIRECT		ROUGH-IN TO BE DFA. SEE SHOP DRAWINGS.			
25	1	REFRIGERATED SELF-SERVICE CASE		E25	10.2	1,910		208V-240V	1	CORD & PLUG	16"	E.C. PROVIDE RECEPTACLE.			
101A	1	DRAFT BEER COOLER		E101A	9.0		1/3	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.			
101B	1	DRAFT BEER COOLER		E101B	9.0		1/3	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.			
102	1	GLASS FROSTER		E102	5.5		1/3	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECPETACLE.			
110	1	REFRIGERATED BACK BAR CABINET		E110	4.8		1/4	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.			
111	1	BAG-N-BOX	BY OTHERS		15.0	_		120V	1	_		CONFIRM SERVICE REQUIREMENTS WITH PROVIDER.			

NOTES:
1. PROVIDE A READILY ACCESSIBLE DISCONNECT SWITCH

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

OR RECEPTACLE FOR EACH PIECE OF KEC EQUIPMENT.

2. COORDINATE FINAL EQUIPMENT REQUIREMENTS WITH KITCHEN EQUIPMENT CUTS PRIOR TO ROUGH-IN



FIRE ALARM GENERAL NOTES

- 1. FIRE ALARM CONTRACTOR SHALL PROVIDE A FORMAL SUBMITTAL TO THE LOCAL AHJ FOR FORMAL PERMIT REVIEW AND APPROVAL. SUBMITAL SHALL INCLUDE, BUT NOT BE LIMITED TO: PLANS, DEVICE LOCATIONS, WIRING DIAGRAMS, EQUIPMENT CUTS, BATTERY CALCULATIONS, ETC.
- 2. FIRE ALARM SYSTEM SHALL BE INSTALLED PER LOCAL FIRE CODES AND NFPA 72.
- 3. ALL NEW DEVICES SHALL MATCH EXISTING FIRE ALARM SYSTEM.
- 4. ALL VISUAL DEVICES LOCATED WITHIN CONTIGUOUS VIEWING AREAS SHALL BE SYNCHRONIZED.
- 5. ALL DEVICES SHALL BE MOUNTED PER MANUFACTURER'S INSTRUCTIONS AND PER NFPA 72. ADJUST LOCATIONS AS REQUIRED TO COORDINATE WITH LIGHTS, DIFFUSERS, SPRINKLER HEADS, ETC. LOCATION ADJUSTMENTS GREATER THAN 2'-0" SHALL BE APPROVED BY THE FNGINFFR.
- 6. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT.
- 7. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORY RELAYS FOR DUCT DETECTORS PROVIDED BY THE MECHANICAL CONTRACTOR TO ENSURE COMPATIBILITY WITH THE FIRE ALARM SYSTEM.
- 8. PROVIDE 120V POWER, CONDUIT AND BACK BOXES AS REQUIRED TO SUPPORT THE INTENDED FIRE ALARM SYSTEM.
- 9. PROVIDE DUCT DETECTORS AT EACH STORY PRIOR TO THE CONNECTION TO A COMMON RETURN DUCT IN AIR HANDLING SYSTEMS SERVING MORE THAN ONE FLOOR AND GREATER THAN 15,000 CFM. COORDINATE LOCATIONS OF DUCT DETECTORS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH—IN. INSTALL TO PROVIDE ADEQUATE CLEARANCE TO THE DETECTOR.

- 10. ALL STROBES SHALL BE 15cd/30cd/ 75cd/110cd MULTI-CANDELA TYPE.
- 11. ALL NEW FIRE ALARM DEVICES SHALL BE RED IN COLOR.
- 12. ALL NEW FIRE ALARM HORN/SPEAKER/STROBES SHALL BE WHITE IN
- 13. EXTEND EXISTING FIRE ALARM LOOP TO ACCOMMODATE NEW DEVICES. DO NOT SPLICE FIRE ALARM CABLING TO AVOID NUISANCE TRIPPING. EXTEND CABLING FROM LAST FIRE ALARM DEVICE WHEREVER POSSIBLE.
- 14. FIRE ALARM SYSTEM SHALL BE RE-PROGRAMMED AS REQUIRED POST-CONSTRUCTION.
- 15. PROVIDE FIRE ALARM SHUT OFF RELAY AT ALL AHU'S AND RTU'S FOR FAN SHUT DOWN UPON FIRE ALARM INITIATION.

POWER & SIGNAL GENERAL NOTES

- 1. ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPS OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPS OR LESS INSTALLED IN BATHROOMS, KITCHEN, OUTDOORS, ROOF TOPS, WITHIN 6'-0" FROM THE TOP INSIDE EDGE OF A SINK BOWL, WET LOCATIONS, LOCKER ROOMS CONTAINING SHOWERS, GARAGES AND SERVICE BAYS, CRAWL SPACES AND UNFINISHED, UNINHABITABLE PORTIONS OF BASEMENTS SHALL BE GFCI. PROVIDE MOTOR RATED GFCI BREAKERS IN LIEU OF GFCI RECEPTACLES FOR ALL KITCHEN MOTOR AND OR COMPRESSOR LOADS FOR REFRIGERATORS, MIXERS, BLENDERS, ETC. TO AVOID NUISANCE TRIPPING.
- 2. ALL 20A BRANCH CIRCUITS SHALL USE #12AWG CONDUCTORS IN ₹"C MINIMUM. CONTRACTOR SHALL PROVIDE HOMERUNS TO ELECTRICAL PANELS AS REQUIRED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR A MAX. OF (1) NETWORK PER HOMERUN. ALL FEEDERS OR BRANCH CIRCUITS GREATER THAN 75' IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP. ALL OTHER CIRCUITS CONDUCTORS SHALL BE SIZED TO MATCH THEIR RESPECTIVE OVER CURRENT PROTECTIVE DEVICES U.N.O.
- 3. COORDINATE DEVICE ELEVATIONS WITH ARCHITECTURAL PLANS PRIOR TO
- 4. THIS PROJECT IS SUBJECT TO THE 2008 ELECTRICAL CODE AND ALL LOCAL AMENDMENTS.
- METALLIC CONDUIT MAY NOT BE USED AS AN EFFECTIVE GROUND PATH.
   PROVIDE A DEDICATED GROUND CONDUCTOR FOR ALL BRANCH CIRCUITS
   & FEEDERS.
- 6. ALL DEVICES SHALL BE MOUNTED HORIZONTALLY GROUND PIN RIGHT U.N.O. ALL DEVICES INSTALLED IN EXISTING AREAS, ADJACENT TO EXISTING DEVICES WITHIN VIEW SHALL MATCH THE ORIENTATION OF THE EXISTING DEVICES U.N.O.
- 7. ALL POWER AND DATA DEVICES INSTALLED FOR THE SERVICE OF FLAT SCREEN TV'S OR VIDEO PANELS SHALL BE CENTERED BEHIND THE TV SO AS NOT TO BE SEEN AFTER EQUIPMENT INSTALLATION. COORDINATE LOCATION WITH EQUIPMENT MOUNTING BRACKET PRIOR TO ROUGH—IN. E.C. SHALL SECURE THE EXTRA CABLE LENGTHS TIGHT BEHIND EQUIPMENT SO AS NOT TO BE SEEN AFTER INSTALLATION. PROVIDE 2—GANG BACK BOX AND EMPTY 3/4"C STUB—UP AT ALL LV LOCATIONS.
- 8. THE CONTRACTOR SHALL REVIEW ALL EQUIPMENT CUTS PRIOR TO THE ROUGH—IN OF ANY ELECTRICAL DEVICES. COORDINATE EQUIPMENT REQUIREMENTS AND ELEVATIONS PRIOR TO ROUGH—IN. TYP.
- 9. DUE TO OCCUPANCY, NOT ALL LOCATIONS MAY HAVE BEEN ABLE TO BE FIELD VERIFIED PRIOR TO DESIGN. THE CONTRACTOR SHALL FIELD VERIFY ALL SPACES TO ASCERTAIN EXACT SCOPE OF WORK AND SHALL INCLUDE ALL COSTS IN BID.
- 10. CIRCUIT NUMBERS USED ARE FOR INTENT OF DESIGN ONLY. ELECTRICAL CONTRACTOR SHALL COORDINATE ACTUAL CIRCUITS TO BE USED, WHERE CIRCUITS IN EXISTING PANELS ARE USED.
- 11. VERIFY ALL TELE/DATA ROOM EQUIPMENT ELECTRICAL & GROUNDING REQUIREMENTS WITH TENANT. EQUIPMENT MAY REQUIRE SPECIALIZED RECEPTACLES DIFFERENT THAN INDICATED. PROVIDE ALL AS REQUIRED FOR A FULLY FUNCTIONAL INSTALLATION.
- 12. PROVIDE & INSTALL NEW 2"C TO RUN BETWEEN EXISTING BUILDING TELEPHONE ROOM AND TENANT TELE/DATA BACKBOARD. VERIFY EXACT ROUTING & TERMINATION POINTS PRIOR TO ALL WORK. STUB & BUSH CONDUITS BELOW FINISHED CEILING AT BOTH ENDS. PROVIDE PULL STRING AS REQUIRED. MODIFY CONDUIT SIZING ACCORDINGLY PER CABLING REQUIREMENTS.
- 13. PROVIDE  $\frac{1}{2}$ "C FROM EACH T-STAT OR SENSOR TO THE EQUIPMENT IT SERVES FOR USE BY THE MECHANICAL CONTRACTOR.
- 14. INSTALL RECEPTACLE AND/OR TRANSFORMER TIGHT TO UNDERSIDE OF COUNTER FOR POWERING OF AUTO FAUCETS. EC TO SECURE EXCESS CABLES AND/OR CORDS TIGHT TO UNDERSIDE OF COUNTER TO MINIMIZE VIEWING POST INSTALLATION.
- 15. PROVIDE EMPTY CONDUIT WITH STUB-UP TO 6" ABOVE FINISHED CEILING FOR ALL LOW VOLTAGE LOCATIONS. PROVIDE BACK BOX FOR DEVICE INSTALLATION PER SPECIFICATIONS. WIRING BY OWNERS LOW VOLTAGE CONTRACTOR. WHERE PLENUM CEILINGS ARE PRESENT, ALL LOW VOLTAGE CABLING SHALL BE PLENUM APPROVED.

**ELECTRICAL SYMBOLS** 

#### SYMBOL POWER SUPPLY (DIRECT) Φ SIMPLEX RECEPTACLE Φ DUPLEX RECEPTACLE QUADRAPLEX SPECIAL PURPOSE ${\mathfrak O}$ FLOOR RECEPTACLE (FLUSH or PEDESTAL) 0 CEILING RECEPTACLE (FLUSH or DROP-CORD) JUNCTION BOX EMPTY CONDUIT ㅁ DISCONNECT SWITCH

FIRE PULL STATION

TELEPHONE or DATA LINE

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No.	Description	Date
	30% SUBMITTAL	06/07/2019
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# ELECTRICAL POWER & SIGNAL PLAN

 Project number
 2019-033

 Date
 08-07-19

 Drawn by
 LV

 Checked by
 SC

E300

#### PERFORMANCE SPECIFICATIONS FOR FIRE PROTECTION SCOPE OF WORK

THE CONTRACTOR IS TO ADHERE TO THIS PERFORMANCE SPECIFICATION & PROVIDE A DESIGN TO MEET ALL INTENTS OF THIS SPECIFICATION. THE WORK THAT IS INDICATED IN THIS DOCUMENT IS AN OVERVIEW OF THE PROJECT, INTENDED TO ESTABLISH THE SCOPE OF THE CONTRACTOR'S RESPONSIBILITIES. THE CONTRACTOR SHALL PREPARE COMPLETE WORKING DRAWINGS FOR SPRINKLER SYSTEM BUILD-OUT, WITH THEIR ENGINEER SEAL FOR APPROVAL BY THE APPROPRIATE AUTHORITIES. THE CONTRACTOR SHALL BE THE ENGINEER OF RECORD. THE FIRE BLOCKS; MAY BE COMPLETED AT THE FIRE CODE OFFICIALS DISCRETION. SECTIO: NFPA 24-10.10.1.10.10.2 PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE & FULLY OPERABLE SPRINKLER SYSTEMS.

DESIGN SPRINKLER DRAWINGS ARE GIVEN AS GUIDE ONLY, & THEREFORE DO NOT RELIEVE THE CONTRACTOR FROM PROVIDING & INSTALLING ALL EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION ACCORDING TO THE ABOVE REQUIREMENTS & GENERAL INSTALLATION RULES AS SET FORTH BY UNDERWRITER'S AGENCIES. & NUMBER & SPACING OF SPRINKLER HEADS, SPACING & SIZE OF PIPE, DETAILS, SHALL BE AS REQUIRED BY THE VARIOUS

SPRINKLER LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS OR ROOM

THE FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE CODE & DIRECTIVES, THE NFPA #13. THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER & THE AUTHORITY HAVING JURISDICTION (AHJ). COMPLETE SPRINKLER PROTECTION SHALL BE PROVIDED THROUGHOUT ALL BUILDING AREAS, UNLESS SPRINKLER OMISSION IS ALLOWED BY CODE OR AMENDMENTS, OR SPECIFICALLY NOTED

ALL COMPONENTS OF THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE UL LISTED AND/OR FACTORY MUTUAL GLOBAL APPROVED, & HAVE PRIOR APPROVAL OF THE AUTHORITY HAVING JURISDICTION FOR USE IN FIRE SPRINKLER SYSTEMS.

#### THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- OBTAIN AND PAY FOR ALL PERMITS, LICENSES, APPROVALS, REVIEWS & INSPECTIONS, & CONDUCT ALL UTILITY SHUT-DOWNS, TAPPING CONNECTIONS & TESTS.
- B. PROVIDE HYDRAULIC DESIGN OF FIRE PROTECTION SYSTEMS, INCLUDING COORDINATED SHOP DRAWINGS AND CALCULATIONS, SUBMITTALS FOR APPROVALS TO ARCHITECT/ENGINEER, AHJ & OWNER'S INSURANCE UNDERWRITER. CALCULATIONS SHALL BE BASED ON NFPA #13 COMPLIANT 2-HYDRANT WATER FLOW TEST, LESS THAN (1) YEAR OLD. CONDUCT SUCH A TEST IF RECORD DATA IS UNAVAILABLE OR OUT OF DATE. ALL SUBMITTALS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER, LICENSED IN THE PROJECT JURISDICTION, AS REQUIRED BY THE LOCAL AHJ. THE CONTRACTORS ENGINEER SHALL PREPARE PLANS, CUT SHEETS, CALCULATIONS, ETC. AS REQUIRED, ALL DEFERRED SUBMITTALS SHALL BE SIGNED AND STAMPED BY THE PREPARING ENGINEER. THE CONTRACTOR SHALL INCLUDE ANY FEES REQUIRED FOR SUCH SUBMISSION IN HIS BID.
- INSTALLATION OF APPROVED SYSTEMS INCLUDING ALL NECESSARY MATERIALS, PRODUCTS, COMPONENTS, DEVICES, SPECIALTIES & EQUIPMENT, LABOR, SERVICES, LOADING, UNLOADING, HOISTING, HANDLING & STORAGE OF MATERIALS, CUTTING, CORING & PATCHING OF PENETRATIONS OF GENERAL CONSTRUCTION, MADE TO INSTALL THE SPRINKLER WORK.
- PIPE SLEEVES SET IN COORDINATED LOCATIONS, THROUGH WALLS, FLOORS & STRUCTURAL ELEMENTS, WITH CHROME PLATED OR PRIMED FINISHED STEEL ESCUTCHEONS PLATES FOR EXPOSED TO VIEW PIPES, PASSING THROUGH FINISHED WALLS, FLOORS AND CEILINGS.
- SMOKE & FIRE STOPPING OF ALL PENETRATIONS CREATED BY THIS CONTRACT, PROVIDE A 2-PART MINIMUM, FIRE STOPPING SYSTEM, COMPLYING WITH LOCAL FIRE DEPARTMENT APPROVED, UL LISTED DETAILS, WHICH ESTABLISH A SMOKE OR FIRE RESISTANCE RATING, EQUAL TO OR GREATER THAN THE FLOOR OR WALL PENETRATED.
- F. ALL REQUIRED ACCEPTANCE TESTING & DOCUMENTATION TO THE SATISFACTION OF AHJ.
- G. PROVIDE TEMPORARY FIRE PROTECTION AS REQUIRED BY THE AHJ, FOR ALL REQUIRED CONSTRUCTION OPERATIONS.
- H. CLEANUP, ON A DAILY BASIS, OF ALL DEBRIS ASSOCIATED WITH THE SPRINKLER INSTALLATION CONTRACT.
- PROVIDE EQUIPMENT MANUALS, RECORD DRAWINGS, VALVE TAG SCHEDULES, TESTING CERTIFICATES AND PERSONNEL INSTRUCTION FOR EACH SYSTEM, PRIOR TO SYSTEM TURN-OVER TO THE OWNER.
- FIRE PROTECTION CONTRACTOR SHALL PROVIDE ACCESS PANELS NECESSITATED BY THE CONFIGURATION OF PIPE SIZES. BUSHINGS SHALL NOT BE USED. HIS WORK, TO THE GENERAL CONTRACTOR FOR INSTALLATION. REFER TO GENERAL SPECIFICATION SECTIONS FOR THE ACCESS PANEL TYPES, REQUIRED TO BE PROVIDED.
- K. FIRE PROTECTION CONTRACTOR SHALL PROVIDE PERMANENT FIRE EXTINGUISHERS AND CABINETS, AS REQUIRED BY NFPA #10 & FOR LOCATIONS SEE ARCHITECTURAL DRAWINGS.
- LESS THAN ONE YEAR, FROM THE DATE OF FINAL ACCEPTANCE.

DESIGN EACH SPRINKLER SYSTEM GIVING FULL CONSIDERATION TO THE HORIZONTAL & VERTICAL OBSTRUCTIONS TO SPRINKLER SPRAY PATTERNS, PRESENTED BY ARCHITECTURAL LAYOUTS OF ROOMS, DIFFERENT ADJACENT CEILING ELEVATIONS, BUILDING CONSTRUCTION, DUCTWORK & MECHANICAL EQUIPMENT, SUSPENDED LIGHTS, ELECTRICAL EQUIPMENT & CONDUIT BANKS. COORDINATE THE LOCATION & LAYOUT OF SPRINKLERS, PIPING & EQUIPMENT WITH THE DETAILED INSTALLATION DRAWINGS OF ALL OTHER TRADES.

SPRINKLER SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13. LOCATE SPRINKLERS IN ARCHITECTURAL PATTERNS, CONSISTENT WITH CEILING GRIDS, LIGHTS, AIR SUPPLY DIFFUSERS, RETURN GRILLS & OTHER CEILING ELEMENTS, WHERE CEILINGS ARE PROVIDED FROM ARCHITECTURAL REFLECTED CEILING PLANS.

ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE. CONCEALED HEADS TO BE FACTORY PAINTED TO MATCH CEILING COLOR. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ARCHITECTS & PROVIDE COLOR SAMPLE TO MANUFACTURER PRIOR TO ORDERING.

HYDRAULIC DENSITY SHALL NOT BE LESS THAN 0.10 GPM PER SQ. FT. FOR LIGHT HAZARD 0.15 FOR ORDINARY HAZARD MECHANICAL/ELECTRICAL/TELEPHONE EQUIPMENT AREAS/STORAGE/ KITCHEN AREAS. AREA OF APPLICATION THE CONTRACTOR SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTING PER THE PROVISIONS OF THE SHALL NOT BE LESS THAN 1500 SQ. FT. FOR LIGHT & ORDINARY HAZARD OCCUPANCIES; 2,000 SQ. FT. FOR ORDINARY HAZARD STORAGE AREAS QUICK RESPONSE SPRINKLERS SHALL BE UTILIZED IN ALL OCCUPANCIES. TOTAL COMBINED INSIDE & OUTSIDE HOSE ALLOWANCE SHALL BE 250 GPM, ADDED TO THE CALCULATIONS AT THE POINT OF CONNECTION TO THE CITY WATER SUPPLY. PROVIDE MINIMUM HYDRAULIC SAFETY CUSHION OF 5 PSI OR 10% OF STATIC WATERMAIN PRESSURE, WHICHEVER IS GREATER, TO HYDRAULIC CALCULATIONS.

THE ARRANGEMENT, POSITIONS AND CONNECTIONS OF PIPES, DRAINS, VALVES, SPRINKLERS, ETC. SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR'S WORKING PLANS, WITH GUIDANCE FROM THE DESIGN DRAWINGS, AND SHALL BE CONFIGURED TO DRAIN FULLY, AVOIDING EXCESSIVE AUXILIARY DRAINS. SPRINKLER PIPING SHALL BE CONCEALED ABOVE ARCHITECTURAL CEILINGS WHERE CEILINGS ARE PROVIDED, UNLESS INDICATED OTHERWISE. ARRANGEMENT OF WET SPRINKLER PIPING MAY BE TREE, LOOP OR GRID SYSTEMS AS MAY BE HYDRAULICALLY ADVANTAGEOUS. BRANCH LINES SHALL BE ABOVE THE TOP OF LIGHTING FIXTURES WITHIN NFPA 25. THE CEILING SPACE.

FURNISH AND INSTALL ALL SPRINKLER HEADS AS ARE REQUIRED BY CODE. SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE OF THE AUTOMATIC NORMAL TEMPERATURE UNLESS OTHERWISE SPECIFIED, SOLDER TYPE IN ACCORDANCE WITH NFPA BULLETIN NO 13. SPRINKLER HEADS SHOWN ON THIS PLAN ARE FOR INFORMATION. THE ACCEPTANCE, ALL SYSTEMS INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADDITIONAL SPRINKLER HEADS TO COMPLY WITH ALL APPLICABLE

COORDINATE SPRINKLER HEADS LOCATIONS WITH THE ARCHITECT DRAWINGS AND FIELD CONDITIONS. SPRINKLER HEADS IN FINISHED AREA SHALL BE CHROME PLATED, CONCEAL TYPE IN CEILING, SPRINKLER HEAD IN 7-DAY A WEEK BASIS UNTIL THE EXPIRATION OF THE WARRANTY PERIOD. KITCHEN AREA & SERVICE AREA SHALL SEMI RECESSED TYPE. IN UNFINISHED AREA SHALL BE BRASS UPRIGHT & SIDE WALL SPRINKLER HEADS SHALL BE CHROME PLATED ESCUTCHEON PLATE.

SPRINKLER HEADS IN WALK IN FREEZER & COOLER SHALL SIDEWALL DRY TYPE. SEAL ALL PIPE PENETRATION

SPRINKLER PIPING HANGERS SHALL BE EQUAL AND CONFIRM TO THE NFPA PAMPHLET NO. 13 REQUIREMENTS.

DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS UNLESS SPECIFICALLY DIMENSIONED. COORDINATE THE WORK WITH ALL TRADES TO AVOID INTERFERENCE. SPRINKLER WORK THAT IS INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER TRADES DUE TO THE LACK OF COORDINATION SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE TAMPER SWITCH FOR ALL OS&Y VALVES AND CONNECT TO THE FIRE ALARM SYSTEM.

PROVIDE FLOW SWITCHES AND CONNECT TO THE FIRE ALARM SYSTEM.

PROVIDE FLUSH TYPE ALARM BELL STRONG AND WIRING.

PROVIDE FIRE DEPARTMENT SIAMESE CONNECTION IN CONFORMATION TO LOCAL FIRE DEPARTMENT.

CONTRACTOR SHALL PROVIDE MAIN/AUXILIARY DRAIN AND INSPECTOR'S TEST CONNECTIONS, CONSISTING OF REQUIRED SIZED PIPING AND GLOBE VALVE, AND SPECIAL DISCHARGE NOZZLE.

CONTRACTOR SHALL PROVIDE ALL REQUIRED AND APPROVED ENAMEL ON METAL IDENTIFICATION SIGNS AT CONTROL, DRAIN, TEST AND ALARM VALVES, AS REQUIRED BY NFPA PAMPHLET NO. 13, LATEST ISSUE. THE LOCAL FIRE CODE OFFICICAL SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COVERING THE UNDERGROUND FIRE MAIN SO THAT AN INSPECTION OF THE INSTALLATION; TO INCLUDE JOINTS AND THRUST

FLUSHING OF THE WATER SUPPLY MAIN, TESTING, ADJUSTING AND RETESTING OF SPRINKLER SYSTEMS ACCORDING TO NFPA #13, UNTIL ACCEPTED BY THE FIRE DEPARTMENT & ARCHITECT. THE FIRE PROTECTION CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE SPRINKLER SYSTEMS UNTIL APPROVAL IS OBTAINED.

PARTITION LAYOUTS. OR PROVIDED TO MEET NFPA #13 REQUIREMENTS IN UNFINISHED AREAS & EQUIPMENT ROOMS. SPRINKLERS INSTALLED IN AREAS OF ARCHITECTURAL REFLECTED CEILING PLANS SHALL BE QUICK RESPONSE, ORDINARY TEMPERATURE RATED, STANDARD ORIFICE, RECESSED & CONCEALED TYPES, CENTERED IN THE SHORT DIMENSION OF CEILING TILES, & AT QUARTER POINTS OF THE LONG DIMENSION, +/-1", TO PRESENT A BALANCED, SYMMETRICAL LAYOUT WITH ALL OTHER CEILING ELEMENTS. SPRINKLERS IN RESIDENTIAL AREA & CORRIDORS SHALL BE BRASS PENDENT, QUICK RESPONSE RESIDENTIAL TYPE WITH STANDARD ORIFICES, ORDINARY TEMPERATURE RATED, INSTALLED ON BRANCHLINES LOCATED TIGHT TO UNDERSIDE OF EXPOSED HEAVY TIMBER

#### SPRINKLER PIPE AND FITTINGS SHALL BE PROVIDED AS FOLLOWS:

A. BURIED AND ABOVE GROUND SPRINKLER PIPING AND FITTINGS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA # 13. NO PIPE WITH A CORROSION RESISTANCE RATIO (CRR) LESS THAN (1), SHALL BE THREADED. GALVANIZËD STEEL PIPE SHALL BE USED FOR DRY SYSTEMS, MAIN DRAINS, FDC PIPING AND WHERE PIPING IS EXPOSED TO EXTERIOR ATMOSPHERE CONDITIONS. SCHEDULE 40 PIPE SHALL BE USED FOR THREADED JOINTS 2" AND SMALLER, AND CUT-GROOVED ONLY FOR ALL GALVANIZED STEEL PIPE, 2-1/2" AND LARGER. SCHEDULE 10 LIGHT WALL BLACK PIPE, 2-1/2" AND LARGER, SHALL BE ROLL-GROOVED ONLY. APPROVED MECHANICAL GROOVED JOINTS, COUPLINGS, FITTINGS AND GROOVING EQUIPMENT SHALL BE OF THE

B. FLANGES AND FITTINGS SHALL BE PRESSURE RATED FOR THE MAXIMUM SYSTEM PRESSURE. FITTINGS FOR THREADED SCHEDULE 40 PIPE SHALL BE CAST MALLEABLE IRON, LISTED BY UL OR FM, FOR USE IN SPRINKLER SYSTEMS. GASKETS FOR COUPLINGS USED IN DRY SYSTEMS SHALL BE LISTED FOR DRY SYSTEM USE. PROVIDE CONVENTIONAL HANGERS OR SEISMIC HANGERS AND SEISMIC SEPARATION ASSEMBLIES PER NFPA #13 REQUIREMENTS OF LOCAL AREA, AND/OR RESTRAINED HANGERS AT ARM-OVERS AND END OF MAINS, WHERE SYSTEM DISCHARGE PRESSURES EXCEED 100 PSI AT SPRINKLER ORIFICES.

#### C. PROVIDE NFPA # 24 COMPLYING WATERMAIN FLUSHING OF INCOMING FIRE SERVICE ENTRANCE.

PROVIDE A CERTIFICATE TO LOCAL FIRE DEPARTMENT STATING THAT ALL UNDERGROUND MAINS HAVE BEEN FLUSHED, TESTED AND CHLORINATED BEFORE CONNECTION TO THE SPRINKLER SYSTEM.

SPRINKLER SYSTEMS SHALL COMPLY WITH ALL REQUIRED AND ADVISORY PROVISIONS OF NFPA 13, THE LOCAL FIRE DEPARTMENT, OWNER'S INSURANCE UNDERWRITER, AND THE ARCHITECT. FLUSH TEST AND CHLORINATE UNDERGROUND IN COMING MAIN IN ACCORDANCE WITH NPPA AND ALL APPLICABLE CODE PRIOR TO CONNECTIONS TO THE SPRINKLER SYSTEM AND PROVIDE CERTIFICATION TO LOCAL FIRE DEPARTMENT.

ALL PIPE HANGERS, RODS AND ATTACHMENTS SHALL BE UL LISTED FOR FIRE PROTECTION SYSTEMS. ALL THREAD ROD SHALL NOT BE BENT. ALL PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED FROM GENERAL BUILDING CONSTRUCTION ONLY, AND SYSTEM PIPING SHALL NOT BE HUNG FROM DUCTWORK, EQUIPMENT, OTHER PIPING OR PIPING SUPPORTS. ALL HANGERS AND LOCATION SHALL BE IN ACCORDANCE WITH NPPA 13.

ALL UNDERGROUND PIPING SHALL BE TESTED AT 200 PSI FLOW REQUIRED OF 1560 GPM WITH VELOCITY OF 10

PROVIDE TWO (2) HOUR HYDROSTATIC TEST (SECTION: NFPA 24-10.1.2.2) ADDITIONALLY THE FIRE CODE OFFICIAL SHALL BE NOTIFIED AT LEAST FORTY EIGHT (48) PRIOR TO WITNESS THE HYDROSTATIC TEST.

USE APPROVED FITTINGS TO MAKE CHANGES IN DIRECTION, BRANCH TAKE-OFFS FROM MAINS AND REDUCTIONS IN

INSTALL UNIONS ADJACENT TO VALVES IN PIPING 2" AND SMALLER. USE FLANGES OR FLANGE ADAPTERS IN PIPING AT VALVES OR DEVICES, 2-1/2" AND LARGER.

INSTALL SPRINKLER SYSTEM PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON ALL PIPE HANGERS.

L. ALL WORK PERFORMED BY THIS CONTRACTOR SHALL BE GUARANTEED IN WRITING, FOR A PERIOD OF NOT PREPARE AND INSTALL PIPING JOINTS, COUPLINGS, FITTINGS, SPECIALTY PRODUCTS AND DEVICES, ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

> INSTALL SPRINKLERS CENTERED IN SQUARE CEILING TILES, AND CENTERED IN THE NARROW DIMENSION, AT ANY QUARTER POINT OF RECTANGULAR CEILING TILES.

SPRINKLER DEFLECTOR POSITIONS SHALL BE PARALLEL CEILING OR TO THE SLOPE OF ROOFS OR VAULTED

THE FIRE PROTECTION PIPING SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE OF NOT LESS THAT 200 POUNDS, PSIG, FOR A DURATION OF NOT LESS THAN TWO HOURS AND IN ACCORDANCE WITH ALL CODE REQUIREMENTS. TO BE WITNESSES BY THE FIRE DEPARTMENT.

CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SUBMIT TO THE LOCAL FIRE PREVENTION BUREAU, INSURANCE UNDERWRITERS AND THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF SPRINKLER SYSTEM. CONTRACTOR IS RESPONSIBLE TO PROVIDE AS-BUILT DRAWINGS.

#### ACCEPTANCE TESTS

APPLICABLE SECTIONS OF NFPA 13, INCLUDING COMPLETION OF ALL MATERIAL AND TEST CERTIFICATES. VERIFICATION OF THE SUCCESSFUL OPERATION OF ALL ALARM DEVICES IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION, HYDROSTATIC PRESSURE TESTS AND FLUSHING OF THE INCOMING WATER SUPPLY MAIN. SYSTEMS & PORTIONS OF SYSTEMS, WHICH FAIL HYDROSTATIC PRESSURE TESTS, SHALL BE REPAIRED & RE-TESTED. ADDITIVES SUCH AS SODIUM SILICATE OR OTHER CHEMICALS SHALL NOT BE USED TO STOP LEAKS.

#### **COMMISSIONING AND DEMONSTRATION:**

THE CONTRACTOR SHALL PUT THE SPRINKLER SYSTEMS IN AN APPROVED OPERATIONAL CONDITION AND DEMONSTRATE TO THE OWNER'S MAINTENANCE STAFF THE NORMAL STATUS AND FAULT STATUS OF ALL SYSTEM COMPONENTS, FAMILIARIZE THEM WITH THE OPERATION AND MAINTENANCE MANUAL AND THE REQUIREMENTS OF

# RRANTEE AND EMERGENCY SERVICE:

THE CONTRACTOR SHALL GUARANTEE IN WRITING FOR A PERIOD OF ONE YEAR. AFTER THE DATE OF FINAL DURING THE INSTALLATION, TESTING AND WARRANTEE PERIODS, FOR ANY DAMAGE CAUSED BY HIM OR HIS SUBCONTRACTORS, CAUSED BY DEFECTS IN MATERIALS OR WORKMANSHIP. THE CONTRACTOR SHALL PROVIDE DURING THE WARRANTEE PERIOD, EMERGENCY REPAIR SERVICE FOR THE SPRINKLER SYSTEMS, WITHIN (4) FOUR HOURS OF A REQUEST BY THE OWNER FOR SUCH SERVICE. THIS SERVICE SHALL BE PROVIDED ON A 24-HOUR,

CONTRACTOR TO FURNISH & INSTALL FIRE EXTINGUISHER IN ACCORDANCE W/NFPA STANDARD NO. 10.

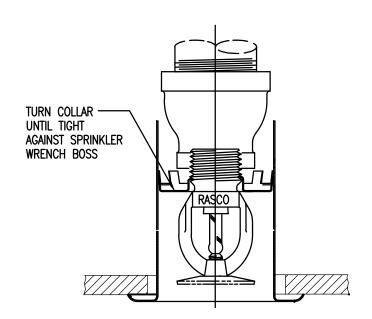
10 LB ABC MULTIPURPOSE EXTINGUISHERS WITH WALL BRACKET.

FE-2 FIRE EXTINGUISHERS 9 LB. CLASS K, 60B.C CARTRIDGE OPERATED DRY-CHEMICAL WITH WALL

FEC-1 FIRE EXTINGUISHERS

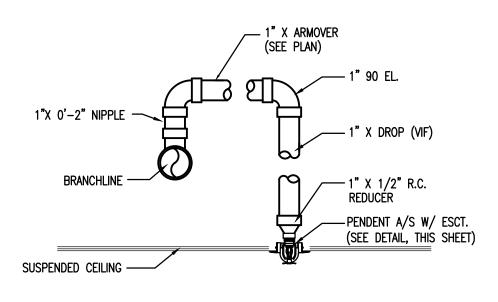
BRACKET

10 LB. 2BC MULTIPURPOSE EXTINGUISHERS IN RECESSED CABINET.



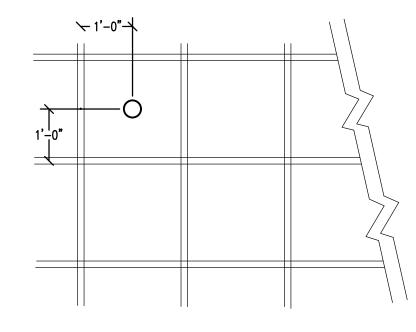
#### A/S HEAD MOUNTING DETAIL

# FIRE PROTECTION DETAIL SCALE: NONE



A/S HEAD PIPING DETAIL

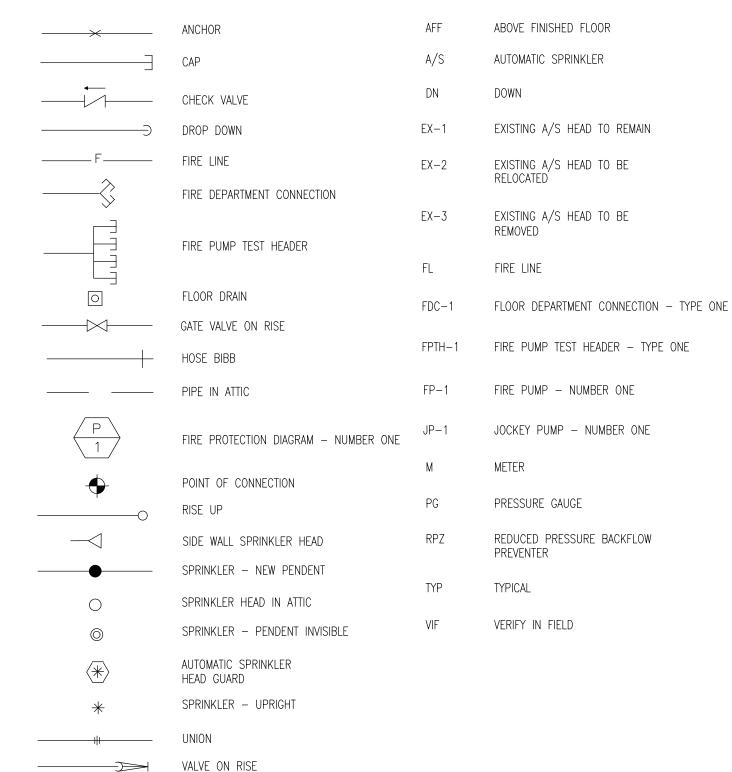
# FIRE PROTECTION DETAIL SCALE: NONE



#### HEADS SHALL BE CENTERED IN EACH TILE.

#### FIRE PROTECTION DETAIL SCALE: NONE

#### FIRE PROTECTION LEGEND



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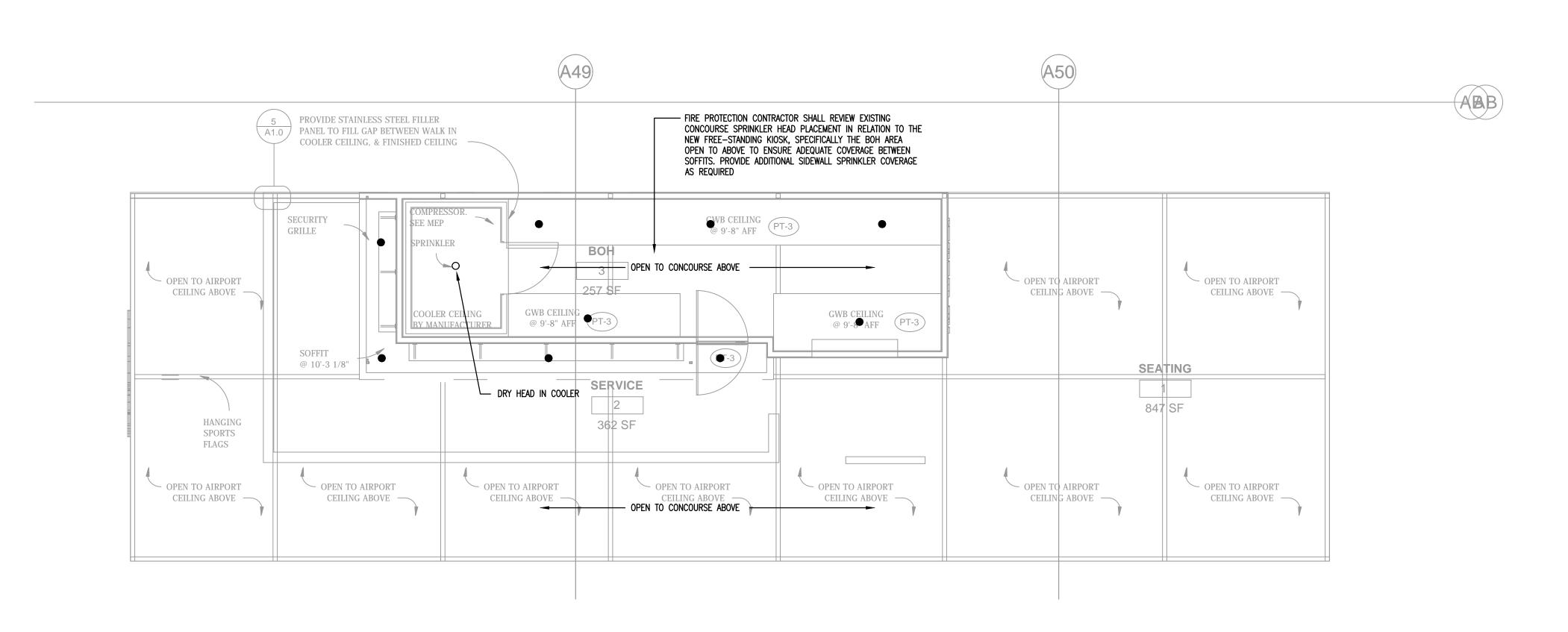
# STACKED PICKLE

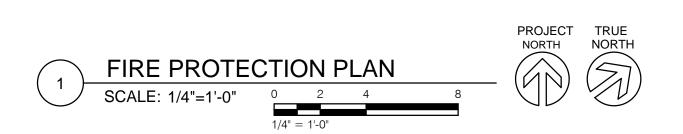
INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/07/2019

# FIRE PROTECTION SYMBOLS & NOTES

Checked by	SC
Drawn by	LV
Date	08-07-19
Project number	2019-033







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No.	Description	Date
	30% SUBMITTAL	06/07/20
	90% SUBMITTAL	08/07/20

FIRE PROTECTION PLAN

 Project number
 2019-033

 Date
 08-07-19

 Drawn by
 LV

 Checked by
 SC

FP200

# Equipment Plan

#### **EQUIPMENT LIST** ITEM NO. QTY. ITEM REMARKS ITEM DESCRIPTION 1 SANDWICH/ SALAD PREP-REFRIGERATOR 1 UNDERCOUNTER FREEZER 3 | 1 | GRIDDLE, 36" 4 3 FRYER, 40LBS - COUNTERTOP TOP 5 1 REFRIGERATED EQUIPMENT STAND 6 1 EXHAUST HOOD SYSTEM - VENTLESS 7 | 1 | HANDSINK 8 1 THREE COMPARTMENT SINK 8A 2 WALL SHELF, 36" 8B | 2 | WALL SHELF, 36" 9 1 UNDERCOUNTER DISHMACHINE 1 CONVECTION OVEN 11 1 MOP SINK CABINET 12 2 UNDERCOUNTER ICE MACHINE w/ FILTER 13 | 1 | ONE COMPARTMENT SINK 14 1 MICROWAVE OVEN 1 PASS-THRU SHELF, 60" 15A 1 HEAT LAMP OPEN NUMBER 17 | 1 LOT | WIRE SHELVING 18 | 1 | WORKTABLE, 48" 19 1 TOASTER - CONVEYOR 20A | 1 | WALL SHELF, 60" 20B 1 WALL SHELF, 72" 1 WIRE WALL SHELF 22A 1 WORKTABLE, 60" 22B 1 WORKTABLE, 48" 23 | 1 | WALL SHELF, 24" 24 1 WALK-IN COOLER 1 REFRIGERATED SELF-SERVICE CASE 101A 1 DRAFT BEER COOLER 101B 1 DRAFT BEER COOLER 102 1 GLASS FROSTER 103 1 UNDERBAR FOUR COMPARTMENT SINK 104 2 UNDERBAR ICE BIN 105 2 UNDERBAR BOTTLE DISPLAY 106 1 UNDERBAR SINK 107 | 1 | UNDERBAR DRAINBOARD

108 | 1 | UNDERBAR HANDSINK

111 1 BAG-N-BOX

109 1 DRIP TROUGH - COUNTERTOP

110 1 REFRIGERATED BACK BAR CABINET

# SILHOUETTE

DESIGN ARCHITECTURE

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No.	Description	Date
	30% SUBMITTAL	06/07/2019
	100% SUBMITTAL	08/02/2019

# EQUIPMENT PLAN

 Project number
 2019-033

 Date
 07-31-19

 Drawn by
 JN3

 Checked by
 Checker

K1

Scale

# **ELECTRICAL NOTES**

- 1. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 /240VOLTS, 1 & 3-PHASE, 4 WIRE AT 60 HERTZ.
- OUTLETS AND ROUGH-INS SHOWN PERTAIN TO AND ARE FOR FOOD-SERVICE FIXTURES AND EQUIPMENT ONLY. SEE ARCHITECTURAL AND/OR ENGINEERING PLANS FOR ANY ADDITIONAL ROUGH-IN REQUIREMENTS.
- 3. THIS ELECTRICAL PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND LOAD REQUIREMENTS. ALL DIMENSIONS ARE SHOWN FROM FINISHED SURFACES TO THE CENTERLINE OF THE ROUGH-IN LOCATION UNLESS OTHERWISE NOTED.
- 4. UNLESS OTHERWISE NOTED, ALL ELECTRICAL WORK FOR FABRICATED FOODSERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY KITCHEN EQUIPMENT DIVISION TO A JUNCTION BOX OR PULL BOX MOUNTED ON THE EQUIPMENT IN AN ACCESSIBLE LOCATION. FINAL CONNECTIONS TO PANEL BOARDS TO BE THE RESPONSIBILITY OF THE E.C.
- 5. FINAL CONNECTIONS TO ALL EQUIPMENT AND ALL REQUIRED MATERIALS TO BE THE RESPONSIBILITY OF THE E.C.
- 6. E.C. TO FURNISH AND INSTALL THE FOLLOWING:
- A. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, ETC., NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC., IN DISHROOMS, OR AS INDICATED ON SCHEDULES, MUST BE VAPOR-PROOF.
- B. SHUNT TRIP CIRCUIT BREAKERS/CONTACTORS OR DISCONNECTS FOR FIRE CONTROL SYSTEM SHUT-OFF OF FOODSERVICE EQUIPMENT BELOW HOODS/VENTILATORS AS REQUIRED BY N.F.P.A.-96 AND LOCAL CODES
- C. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES.
- 7. WHEN APPLICABLE, E.C. TO INSTALL F.S.E.C.-PROVIDED ELECTRICAL COM-PONENTS, PROVIDE ALL CONDUIT AND WIRING, AND INTERCONNECT BETWEEN THE FOLLOWING:
- A. REMOTE REFRIGERATION EQUIPMENT TO EVAPORATOR COILS.
- B. CONTROL PANELS TO WATER-TYPE VENTILATORS AND EXHAUST OR SUPPLY FANS PER MANUFACTURER'S SPECIFICATIONS.
- C. KITCHEN EXHAUST HOODS/VENTILATORS TO FIRE CONTROL SYSTEM AND SHUT-OFFS.
- 8. ALL ELECTRICAL AMPERAGE NOTED ON ROUGH-IN SCHEDULE INDICATES FULL LOAD AMP DRAW -- NOT RECOMMENDED CIRCUIT BREAKER SIZE. E.C. IS RESPONSIBLE FOR PROPER BREAKER SIZING WITH THIS INFORMATION
- 9. PEDESTAL RECEPTACLES ARE NOT TO EXCEED 4-1/2" AFF.
- 10. E.C. TO FURNISH AND INSTALL GROUND FAULT RECEPTACLE OR FURNISH GROUND FAULT CIRCUIT BREAKER FOR ANY RECEPTACLE WITHIN FIVE FEET (5'-0") OF SINK.

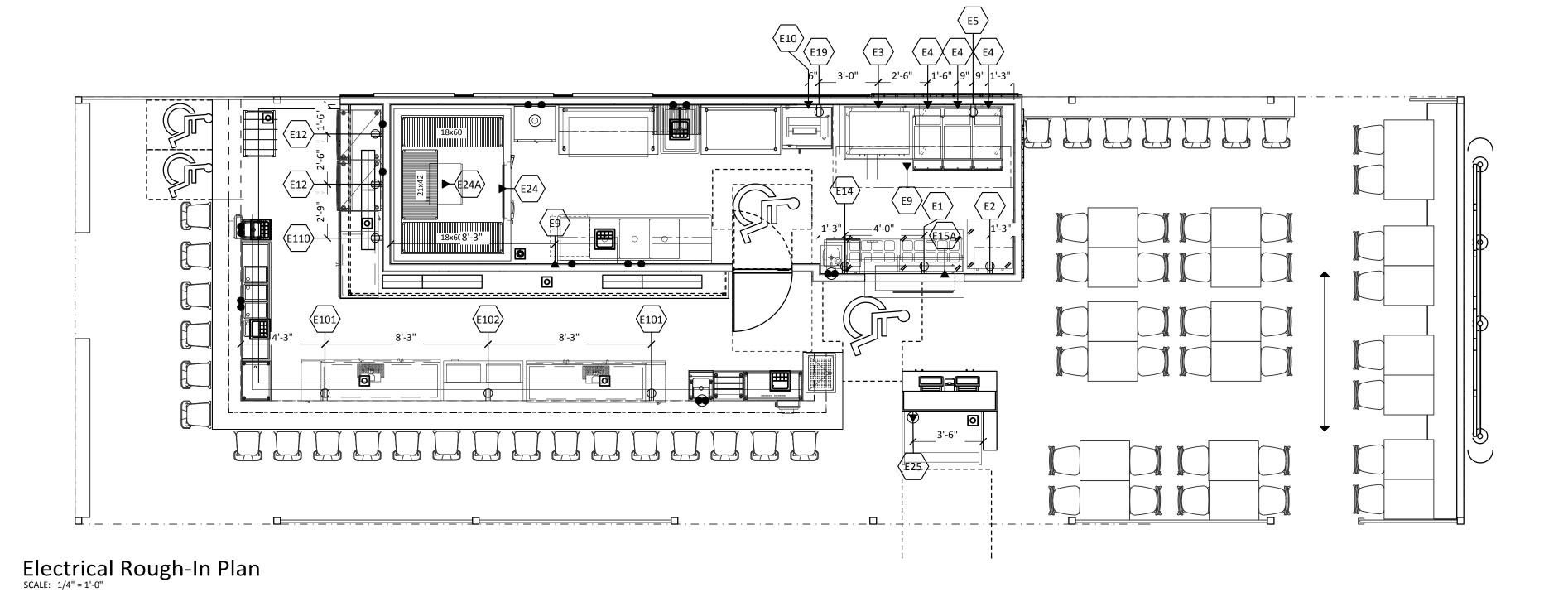
# **ABBREVIATIONS**

ADDIX	LVIATIONO
ABBREV.	DESCRIPTION
ADD'L	ADDITIONAL
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AMP	AMPERAGE
BFC	BELOW FINISHED CEILING
ВТС	BRANCH TO CONNECTION
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DFA	DROP SERVICE FROM ABOVE
E.C.	ELECTRICAL CONTRACTOR
°F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FLUSH	MOUNT ITEM FLUSH WITH SURFACE
F.S.	FLOOR SINK
F.S.E.C.	FOODSERVICE EQUIPMENT CONTRACTOR
FT	FLOOR TROUGH
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
GFI GFI	GROUND FAULT INTERRUPTER
GHT	GARDEN HOSE THREAD
GPM	GALLONS PER MINUTE
HD	HUB DRAIN
HGT.	HEIGHT
HP	HORSEPOWER
HR	HOUR
H.V.A.C.	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
in.	INCH
kW	KILOWATT
MBTU	1,000 BTU
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
N.I.F.S.E.C.	NOT IN FOODSERVICE EQUIPMENT CONTRACT
NPT	NATIONAL PIPE THREAD
P.C.	· · · · · · · · · · · · · · · · · · ·
P.C.	PLUMBING CONTRACTOR PEDESTAL-MOUNTED
PH	
R.C.	PHASE ROOFING CONTRACTOR
_	
RECP.	RECEPTACLE
REQ'MTS	REQUIREMENTS
S.C.	STRUCTURAL CONTRACTOR
S/S	STAINLESS STEEL
STUB-UP	STUB SERVICE UP FROM FINISHED FLOOR

NOTE:

EXISTING AND/OR EQUIPMENT PROVIDED BY OTHERS MAY REQUIRE ADDITIONAL ROUGH-INS NOT SHOWN IN THESE PLANS. CONFIRM UTILITY REQUIREMENTS WITH PROVIDER.

	ELECTRICAL SCHEDULE											
TEM NO.	OTY.	ITEM DESCRIPTION	ITEM REMARKS	ELECT.	AMPS	WATTS	НР	VOLTS	PHASE	CONN TYPE	ELECT. HGT.	ELECTRICAL REMARKS
1	1	SANDWICH/ SALAD PREP-REFRIGERATOR		E1	3.2		3/8	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECPETACLE.
2	1	UNDERCOUNTER FREEZER		E2	4.5		1/4	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECPETACLE.
3	1	GRIDDLE, 36"		E3	43.9	9,130		208V-240V	1	DIRECT	24"	
4	3	FRYER, 40LBS - COUNTERTOP TOP		E4	47.0	17,000		208V	3	DIRECT	24"	
5	1	REFRIGERATED EQUIPMENT STAND		E5	10.4	1,200	1/3	120V	1	CORD & PLUG	24"	E.C. PROVIDE DUPLEX RECPETACLE.
6	1	EXHAUST HOOD SYSTEM - VENTLESS		E6	8.0		1 1/2	208V-240V	1	DIRECT	0"	ROUGH-IN TO BE DFA. E.C. WIRE TO HOOD CONTROLS AS REQUIRED.
9	1	UNDERCOUNTER DISHMACHINE		E9	32.0	6,000	1	208V	1	DIRECT	16"	
10	1	CONVECTION OVEN		E10	24.0	5,600	1/4	208V	3	DIRECT	16"	
12	2	UNDERCOUNTER ICE MACHINE w/ FILTER		E12	10.7	1,230	3/4	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.
14	1	MICROWAVE OVEN		E14	13.0	1,550		120V	1	CORD & PLUG	54"	E.C. PROVIDE DUPLEX RECPETACLE.
15A	1	HEAT LAMP		E15A	18.3	2,200		120V	1	DIRECT		ROUGH-IN TO BE DFA. E.C. WIRE TO AND THRU CONTROLS AS REQUIRED.
19	1	TOASTER - CONVEYOR		E19	13.3	1,600		120V	1	CORD & PLUG	48"	E.C. PROVIDE DUPLEX RECEPTACLE.
24	1	WALK-IN COOLER		E24	15.0			120V	1	DIRECT		ROUGH-IN TO BE DFA. LIGHTS, HEATERS AND CONTROLS. SEE SHOP DRAWINGS.
24A	1	COOLER REFRIGERATION PAK		E24A	0.0		0	208V	3	DIRECT		ROUGH-IN TO BE DFA. SEE SHOP DRAWINGS.
25	1	REFRIGERATED SELF-SERVICE CASE		E25	10.2	1,910		208V-240V	1	CORD & PLUG	16"	E.C. PROVIDE RECEPTACLE.
101A	1	DRAFT BEER COOLER		E101A	9.0		1/3	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.
101B	1	DRAFT BEER COOLER		E101B	9.0		1/3	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.
102	1	GLASS FROSTER		E102	5.5		1/3	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECPETACLE.
110	1	REFRIGERATED BACK BAR CABINET		E110	4.8		1/4	120V	1	CORD & PLUG	16"	E.C. PROVIDE DUPLEX RECEPTACLE.
111	1	BAG-N-BOX	BY OTHERS		15.0			120V	1			CONFIRM SERVICE REQUIREMENTS WITH PROVIDER.



# ELECTRICAL SYMBOLS

SYMBOL		DESCRIPTION
<b>A</b>	POWER SUPPLY	(DIRECT)
φ	SIMPLEX RECEPTACLE	
φ	DUPLEX RECEPTACLE	
#	QUADRAPLEX RECEPTAC	.E
	SPECIAL PURPOSE RECEP	TACLE
Ø	FLOOR RECEPTACLE	(FLUSH or PEDESTAL)
0	CEILING RECEPTACLE	(FLUSH or DROP-CORD)
J	JUNCTION BOX	
Δ	EMPTY CONDUIT	
마	DISCONNECT SWITCH	
F	FIRE PULL STATION	
▼	TELEPHONE or DATA LIN	Ē

# SILHOUETTE DESIGN ARCHITECTURE

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# STACKED PICKLE

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Description

30% SUBMITTAL	06/07/2019
100% SUBMITTAL	08/02/2019

# ELECTRICAL ROUGH-IN PLAN

Project number	2019-033
Date	07-31-19
Drawn by	JN3
Checked by	Checker

K2

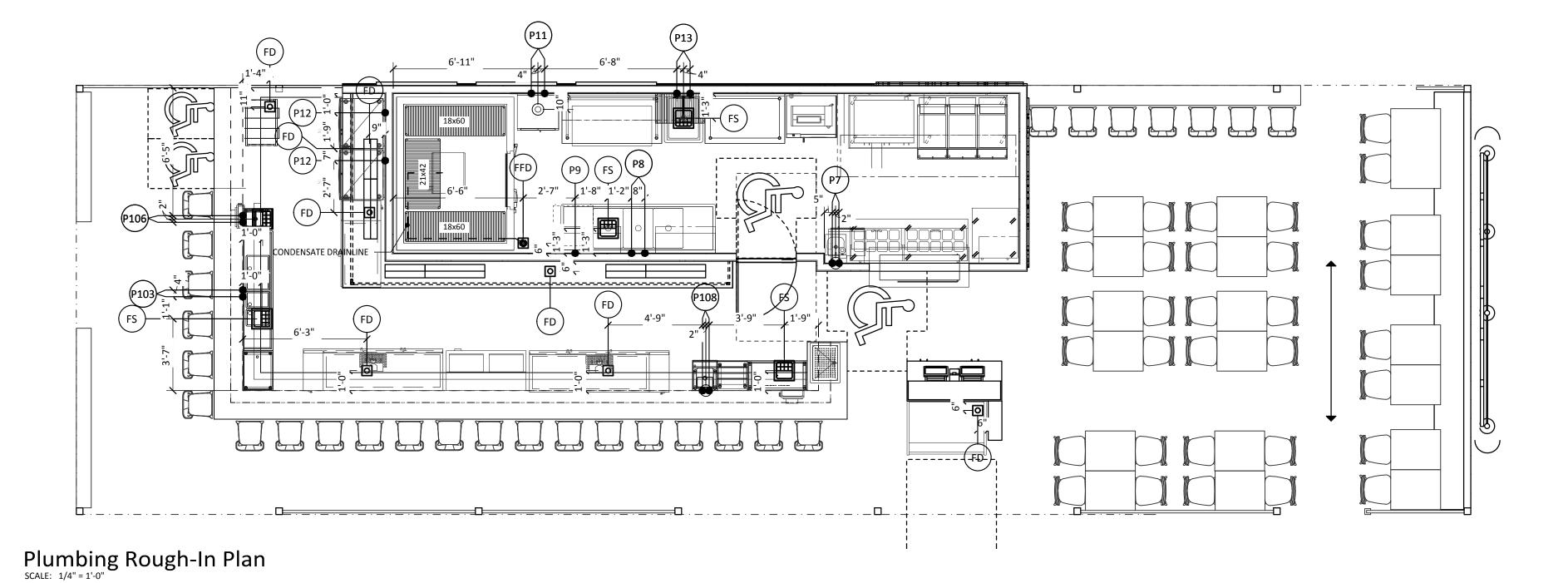
# PLUMBING NOTES

- 1. ROUGH-INS SHOWN PERTAIN TO AND ARE FOR FOODSERVICE FIXTURES AND EQUIPMENT ONLY. SEE ARCHITECTURAL AND/OR ENGINEERING PLANS FOR ADDITIONAL PLUMBING REQUIREMENTS.
- 2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS, HEIGHTS AND LOAD REQUIREMENTS. ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES TO THE CENTERLINE OF THE ROUGH-IN LOCATION, UNLESS OTHERWISE NOTED.
- 3. FINAL CONNECTIONS TO ALL EQUIPMENT TO BE PERFORMED BY P.C., INCLUDING ALL REQUIRED MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPING, TUBING, PRESSURE REGULATING VALVES,
- 4. P.C. TO FURNISH AND INSTALL THE FOLLOWING:
- A. ALL WATER, WASTE, GAS, AND STEAM SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN. ROUGH-IN OUTLETS TO STUB 4 in. OUT OF WALLS AT HEIGHT INDICATED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. FLOOR ROUGH-INS TO STUB UP 4 in. ABOVE FINISHED FLOOR OR CURB. ALL FLOOR OPENINGS ARE TO BE SEALED WATER-TIGHT.
- B. PRESSURE REDUCING AND/OR REGULATION VALVES FOR DISH-WASHERS, BOOSTER HEATERS, AND AS OTHERWISE NOTED IN KITCHEN AREA.
- C. ALL FLOOR SINKS, COMPLETE WITH TOP GRATES INDICATED AND REMOVABLE SEDIMENT BUCKETS, SET FLUSH WITH FINISHED FLOOR (UNLESS OTHERWISE NOTED).
- D. ALL WASTE LINES (DIRECT OR INDIRECT) EXCEPT AS NOTED. MINI-MUM DIAMETER OF LINE SHALL BE AS INDICATED ON PLAN REGARD-LESS OF CONNECTION SIZE, AND SHALL BE PITCHED DOWNWARD. MAINTAIN DRAINS AS HIGH AS POSSIBLE ABOVE FLOOR. ALL WASTE LINES SHALL HAVE ADEQUATE CLEAN-OUT PROVISIONS.
- E. INDIRECT WASTE LINES FOR WALK-IN COOLERS/FREEZERS TO BE PITCHED AT 4 in./12 ft. (MINIMUM) AND WITH A "P"-TRAP AT THE END OF THE RUN ABOVE THE FLOOR DRAIN.
- F. HEATER TAPE RATED AT 36 WATTS PER LINEAL FOOT OF DRAIN LINE AS WELL AS INSULATION OF ALL DRAIN LINES INSIDE FREEZER COMPARTMENTS.
- G. ALL REQUIRED GREASE TRAPS BELOW OR FLUSH WITH FLOOR.
- H. WHEN GAS COOKING EQUIPMENT IS USED, INSTALL FIRE CONTROL GAS SHUT-OFF VALVE(S) AS SUPPLIED BY FIRE SUPPRESSION SYSTEM CONTRACTOR.
- I. VACUUM BREAKERS AS REQUIRED AS WELL AS INSTALLATION OF THOSE PROVIDED BY K.E.C. FOR USE WITH DISPOSERS.
- J. INSULATION ON ALL STEAM, HOT WATER, AND CONDENSATE LINES IN THE KITCHEN AREA. ALL SUCH LINES ARE TO BE COLOR-CODED ACCORDING TO LOCAL CODES.
- 5. ALL VENT PIPES TO BE CONCEALED IN WALLS OR COLUMN CHASES. USE LOOP VENTS FOR ISLAND FIXTURES.
- 6. ALL EXPOSED PIPING AND FITTINGS IN THE KITCHEN AREA TO BE CHROME-PLATED OR STAINLESS STEEL.
- 7. ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH INTENDED USE OR SERVICING OF EQUIPMENT.
- 8. AREA FLOOR DRAINS HAVE NOT BEEN SHOWN OR NOTED. QUANTITIES AND LOCATIONS TO BE COORDINATED WITH G.C.

# ABBREVIATIONS

ABBREV.	<u>DESCRIPTION</u>
ADD'L	ADDITIONAL
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AMP	AMPERAGE
BFC	BELOW FINISHED CEILING
втс	BRANCH TO CONNECTION
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DFA	DROP SERVICE FROM ABOVE
E.C.	ELECTRICAL CONTRACTOR
°F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FLUSH	MOUNT ITEM FLUSH WITH SURFACE
F.S.	FLOOR SINK
F.S.E.C.	FOODSERVICE EQUIPMENT CONTRACTOR
FT	FLOOR TROUGH
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
GFI GFI	GROUND FAULT INTERRUPTER
GHT	GARDEN HOSE THREAD
GPM	GALLONS PER MINUTE
HD	HUB DRAIN
HGT.	HEIGHT
HP	HORSEPOWER
HR	HOUR
H.V.A.C.	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
in.	INCH
kW	KILOWATT
MBTU	1,000 BTU
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
N.I.F.S.E.C.	NOT IN FOODSERVICE EQUIPMENT CONTRACT
NPT	NATIONAL PIPE THREAD
P.C.	PLUMBING CONTRACTOR
PED	PEDESTAL-MOUNTED
PH	PHASE
R.C.	ROOFING CONTRACTOR
RECP.	RECEPTACLE
REQ'MTS	REQUIREMENTS
S.C.	STRUCTURAL CONTRACTOR
S/S	STAINLESS STEEL
STUB-UP	STUB SERVICE UP FROM FINISHED FLOOR

PLUMBING SCHEDULE												
TEM NO.	QTY.	ITEM DESCRIPTION	ITEM REMARKS PLUMB. NO.	C.W. SIZE	H.W. SIZE	PLUMB. HGT. (AFF)	DIRECT WASTE SIZE	DIRECT WASTE HGT. (AFF)	INDIRECT CONN TYPE	MECH. NO.	GAS SIZE BT	J/HR GAS HGT. (AFF) PLUMBING REMARKS
1	1	SANDWICH/ SALAD PREP-REFRIGERATOR										
7	1	HANDSINK	P7	1/2"	1/2"	18"	1 1/2"	18"				
8	1	THREE COMPARTMENT SINK	P8	1/2"	1/2"	18"			FS			P.C. TO MANIFOLD DRAINS FOR ONE DROP TO FS.
9	1	UNDERCOUNTER DISHMACHINE	P9		1/2"	18"			FS			
11	1	MOP SINK CABINET	P11	1/2"	1/2"	36"	3 1/2"	0"				DRAIN TO BE STUBBED UP.
12	2	UNDERCOUNTER ICE MACHINE w/ FILTER	P12	1/2"		18"			FD			P.C. TO RUN C.W. THRU WATER FILTER.
13	1	ONE COMPARTMENT SINK	P13	1/2"	1/2"	18"			FS			
24	1	WALK-IN COOLER										
24A	1	COOLER REFRIGERATION PAK							FFD			P.C. TO EXTEND CONDENSATE DRAINLINE TO FFD.
25	1	REFRIGERATED SELF-SERVICE CASE							FD			
101A	1	DRAFT BEER COOLER							FD			
101B	1	DRAFT BEER COOLER							FD			
103	1	UNDERBAR FOUR COMPARTMENT SINK	P103	1/2"	1/2"	12"			FS			P.C. TO MANIFOLD DRAINS FOR ONE DROP TO FS.
104	2	UNDERBAR ICE BIN							FS			
106	1	UNDERBAR SINK	P106	1/2"	1/2"	12"	0"	0"	FS			
107	1	UNDERBAR DRAINBOARD							FS			
108	1	UNDERBAR HANDSINK	P108	1/2"	1/2"	12"	1 1/2"	12"				
109	1	DRIP TROUGH - COUNTERTOP							FS			
110	1	REFRIGERATED BACK BAR CABINET										
111	1	BAG-N-BOX	BY OTHERS	1/2"		0"			FD			CONFIRM SERVICE REQUIREMENTS WITH PROVIDE



NOTE:

EXISTING AND/OR EQUIPMENT PROVIDED BY OTHERS
MAY REQUIRE ADDITIONAL ROUGH-INS NOT SHOWN IN
THESE PLANS. CONFIRM UTILITY REQUIREMENTS WITH

PROVIDER.

# PLUMBING SYMBOLS

SYMBOL	<u>DESCRIPTION</u>
•	WATER SERVICE (HOT or COLD)
•	GAS SERVICE
•	CHILLED WATER (SUPPLY or RETURN)
0	DIRECT WASTE
S ● R	STEAM SERVICE (SUPPLY or RETURN)
	8" x 8" FLOOR SINK (SHOWN w/ HALF GRATE)
	12" x 12" FLOOR SINK (SHOWN w/ HALF GRATE)
0	FLOOR DRAIN
•	FUNNEL FLOOR DRAIN
0	HUB DRAIN
•	BEVERAGE CHASE (SODA or BEER)

# SILHOUETTE DESIGN ARCHITECTURE

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# STACKED PICKLE

INDIANAPOLIS INTERNATIONAL AIRPORT 7800 COL. H. WEIR COOK MEMORIAL DR. INDIANAPOLIS, IN, 46241 CONCOURSE A, LEVEL 3, SPACE AF-7

30% SUBMITTAL

100% SUBMITTAL	08/02/2019
 1	

06/07/2019

# PLUMBING ROUGH-IN PLAN

 Project number
 2019-033

 Date
 07-31-19

 Drawn by
 JN3

 Checked by
 Checker

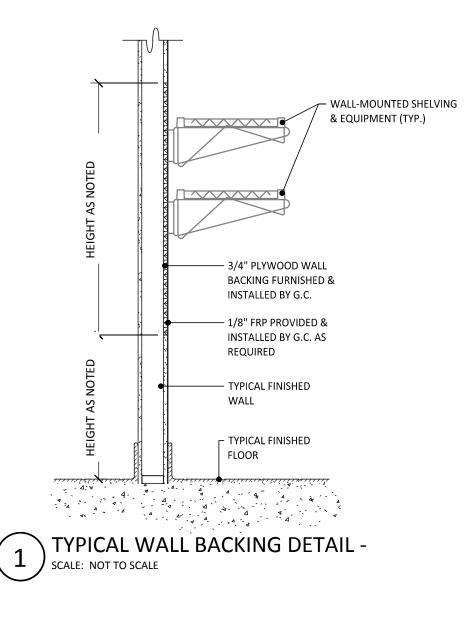
K3

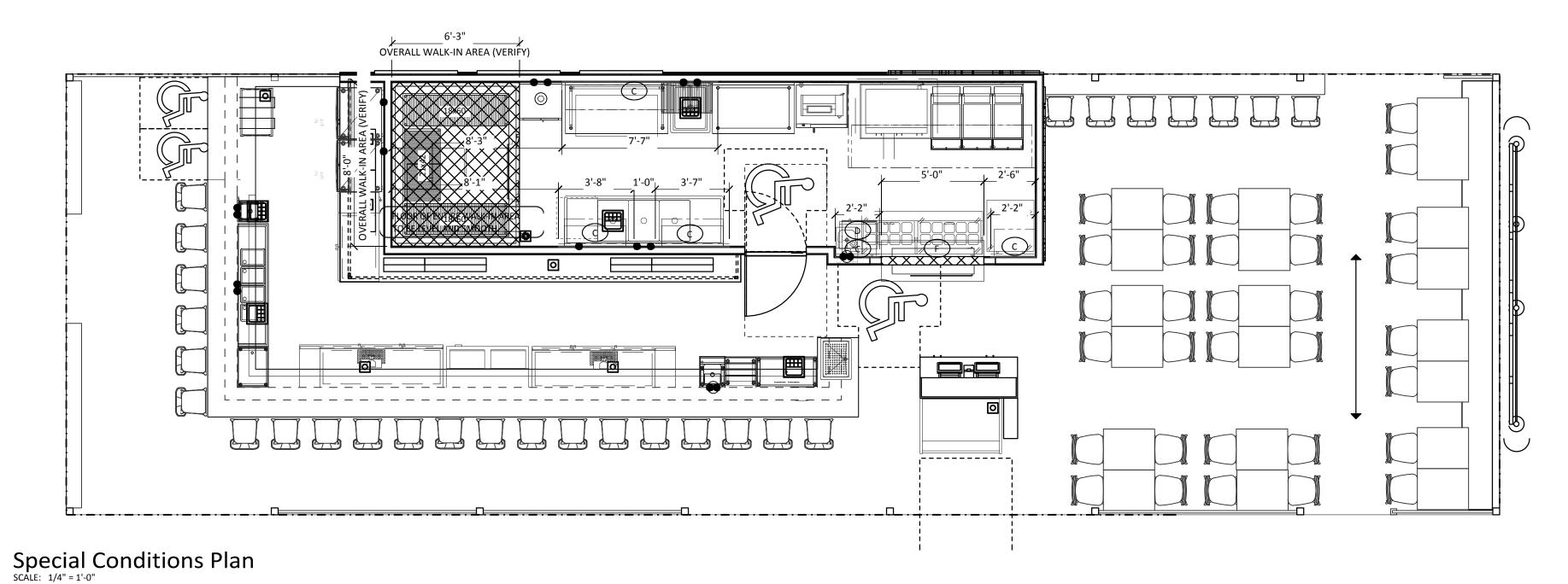
Scale

# SPECIAL CONDITIONS NOTES

- WALK-IN COOLER/FREEZER AREA TO BE RECESSED 4". SEE SHOP DRAWINGS FOR DETAILS.
- B. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 36" AFF TO 84" AFF FOR WALL MOUNTED WATER FILTER.
- C. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 48" AFF TO 84" AFF FOR WALL MOUNTED SHELF.D. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 30" AFF TO 48" AFF FOR WALL MOUNTED HAND SINK.
- E. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 30" AFF TO 78" AFF FOR PRE-RINSE FAUCET WALL BRACKET.
- F. G.C. TO PROVIDE FINISHED OPENING IN WALL FOR PASS-THRU WINDOW. G.C. VERIFY DIMENSIONS OF OPENINGS WITH OWNER.
- 6" PVC SODA CHASE AS REQUIRED FOR SODA SYSTEM (ITEM #37). G.C. TO COORDINATE WITH SODA VENDOR PRIOR TO INSTALLATION. (SEE DETAIL BELOW)

  G.C. TO BOX OUT AREA PRIOR TO POURING OF FLOOR FOR INSTALLATION OF FLOOR TROUGH BY F.S.E.C.
- G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 72" AFF TO 6" BFC FOR HOSE REEL.





WALL BACKING TO BE USED AT ALL LOCATIONS DESIGNATED UNLESS WALL IS COMPOSED OF MASORY BLOCK.
 WALL BACKING DIMENSIONS ARE FROM FINISHED WALLS

- UNLESS OTHERWISE NOTED.

  B. EXTEND BACKING TO THE NEAREST STUDS.
- 3. EXTEND BACKING TO THE NEAREST STODS.
- I. G.C. TO CONFIRM WITH OWNER FOR ANY ADDITIONAL WALL-MOUNTED ITEMS NOT SHOWN.

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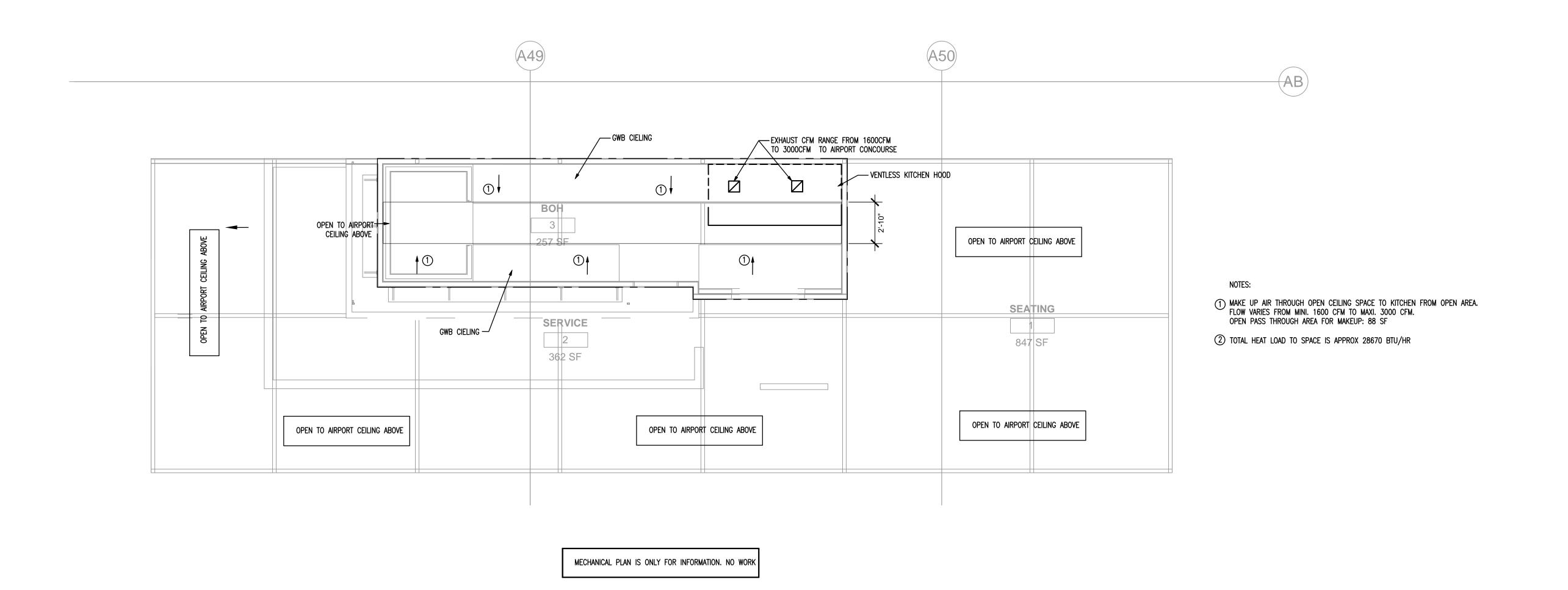
No.	Description	Date
	30% SUBMITTAL	06/07/2019
	100% SUBMITTAL	08/02/2019

# SPECIAL CONDITIONS PLAN

Project number	2019-033
Date	07-31-19
Drawn by	JN3
Checked by	Checker
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K4

Scale



DESIGN ARCHITECTURE

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No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/07/2019
·		

# MECHANICAL PLAN

2019-033 08-07-19 Drawn by

M100

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HVAC PLAN

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

0 2 4 8

1/4" = 1'-0"

		WATER SUPPLY FIXTUR (STATE OF INDIANA PLUMBI				
KITCHE	N AND F	RESTAURANT EQUIPMENT:				
MARK	QTY.	EQUIPMENT	PRI	PUB	WSFU/UNIT	TOTAL WSFU
P7	1	HANDSINK		Х	2	2
P8	1	TRIPLE BASIN SINK		Х	4	4
P11	1	MOP SINK CABINET		Х	3	3
P12	2	UNDERCOUNTER ICE MACHINE		Х	1	2
P13	1	ONE COMPARTMENT SINK			4	4
P103	1	FOUR COMPARTMENT SINK		Х	4	4
P106	1	UNDER BAR SINK		Х	2	2
P111	1	BAG IN BOX		Х	1	1
	ı	TOTAL FOOD	SERVI	L CE EQUIP	MENT WFUV:	22
	<u> </u>	WATER SUPPLY	<u> </u>	 E UNITS, 1	TOTAL (WSFU)	22
FLOW RATE, TOTAL (GPM):						
SERVICE PIPE SIZE:						1-1/2"
		PRESSU	JRE LOS	SS (PSI/10	00'-0" OF PIPE:	2
			VEL	OCITY (FI	EET/SECOND):	4
			MET	ER SIZE (	IF REQUIRED):	1-1/2"

		(BASED ASPE SERVICE WATER I	HEATING CHAPTER)			
MARK	INDIMDUAL DEMAND					
		COMMERCIAL KITCHE	N LOAD:			
		(BASED ON A.O. SMITH FOOD SE	RVICE USAGE DATA)			
P7	1	HAND SINK	5	5		
<b>P</b> 8	1	THREE COMPARTMENT SINK	90	90		
P9	1	UNDERCOUNTER DISHWASHER	24	24		
P11	1	MOP RECEPTOR	10	10		
P13	1	SINGLE COMPARTMENT SINK	30	30		
P103	1	FOUR COMPARTMENT UNDER BAR SINK	95	95		
P106	1	UNDER BAR SINK	30	30		
P108	1	HAND SINK	5	5		
		TOTAL FOOD SERVICE	HOT WATER LOAD, GPH:	289		

DRAINAGE FIXTURE UNIT SUMMARY (INDIANA STATE PLUMBING CODE (IPC 2006)							
MARK	QTY.	FIXTURE/EQUPMENT	FIXTURE UNITS (EACH)	SANITARY WASTE FIXTURE UNITS	KITCHEN WASTE FIXTURE UNITS		
Р7	1	HAND SINK	1	1			
Р9	1	UNDERCOUNTER DISH MACHINE	3	3			
P11	1	MOP RECEPTOR	2	2			
				0			
FD-1	2	FD-1 W/ 3" Outlet	5	10			
FD-1	3	FD-1 W/2" OUTLET	3	9			
FD-2	1	FD-2 W/ 2" Outlet & HUB	3	3			
FS-1	6	FS-1 W/ 3" Outlet	5	30			
	TOTAL DRAINAGE FIXTURE UNITS: 58						

		PLUMBI	NG MATERIALS S	SCHEDULE					
PLAN TAG		UMBING SYSTEM		SYSTEM MATERIAL AND FITTING SPECIFICATION					
	DESCRIPTION	INSTALLATION	SIZES						
sw	SANITARY (SOIL) PIPING	<b>SUSPENDED</b>	2-1/2" AND SMALLER	COPPER PIPE DRAWN TYPE L ASTM B88 AND DWV SOLDERED DRAINAGE FITTINGS, ANSI B16.29. GALVANIZED STEEL PIPE, SCH. 40 ASTM A53, THREADED DWV FITTINGS B16.3					
			3" AND LARGER	CAST IRON SOIL PIPE AND FITTINGS HUB & SPIGOT, ASTM A74, LEAD AND OAKUM JOINTS					
w	WASTE PIPING	SUSPENDED	2-1/2" AND SMALLER	COPPER PIPE DRAWN TYPE L ASTM B88 AND DWV SOLDERED DRAINAGE FITTINGS, ANSI B16.29. GALVANIZED STEEL PIPE, SCH. 40 ASTM A53, THREADED DWV FITTINGS B16.3					
			3" AND LARGER	CAST IRON SOIL PIPE AND FITTINGS HUB & SPIGOT, ASTM A74, LEAD AND OAKUM JOINTS					
ĸw	KITCHEN WASTE PIPING	SUSPENDED	2-1/2" AND SMALLER	COPPER PIPE DRAWN TYPE L ASTM B88 AND DWV SOLDERED DRAINAGE FITTINGS, ANSI B16.29. GALVANIZED STEEL PIPE, SCH. 40 ASTM A53, THREADED DWV FITTINGS B16.3					
			3" AND LARGER	CAST IRON SOIL PIPE AND FITTINGS HUB & SPIGOT, ASTM A74, LEAD AND OAKUM JOINTS					
v	VENT PIPING (ALL SYSTEMS)	SUSPENDED	2-1/2" AND SMALLER	COPPER PIPE DRAWN TYPE L ASTM B88 AND DWV SOLDERED DRAINAGE FITTINGS, ANSI B16.29. GALVANIZED STEEL PIPE, SCH. 40 ASTM A53, THREADED DWV FITTINGS B16.3					
			3" AND LARGER	CAST IRON SOIL PIPE AND FITTINGS HUB & SPIGOT, ASTM A74, LEAD AND OAKUM JOINTS					
cw	DOMESTIC COLD WATER	SUSPENDED	2-1/2" AND SMALLER	COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASTM B16.22					
CVV	DISTRIBUTION	SOUPLINDED	3" AND LARGER	COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASTM B16.22					
HW &	DOMESTIC HOT WATER	SUSPENDED	2-1/2" AND SMALLER	COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASTM B16.22					
HWR	DISTRIBUTION	VVVI ZINDED	3" AND LARGER	COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASTM B16.22					

BACKFLOW PREVENTION DEVICE SCHEDULE									
FIXTURE/EQUIPMENT AIR GAP  REDUCED PRESSURE PRINCIPAL CHECK TYPE BACKFLOW PREVENTER ASSEMBLY PREVENTER ASSEMBLY PREVENTER ASSEMBLY ASSEMBLY  DUAL CHECK VALVE ASSEMBLY TYPE BACKFLOW PREVENTER PREVENTER ASSEMBLY PREVENTER  DUAL CHECK VALVE BACKFLOW PREVENTER  DUAL CHECK VALVE BACKFLOW PREVENTER  DUAL CHECK VALVE BACKFLOW PREVENTER						REMARKS			
		ASSE 1013	ASSE 1015	ASSE 1024	ASSE 1024	ASSE 1032		ASSE 1052	
M OP RECEPTOR					х	Х	Х		VERIFY ACCEPTABLE DEVIC
ICE MAKER - FLOOR MOUNTED				Х					
BAG IN BOX				X	х				

1. ALL BACKFLOW PREVENTION DEVICES SHALL CONFORM TO STANDARD LISTINGS AS DICTATED BY THE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

3. ACCEPTABLE MANUFACTURER'S INCLUDE FEBCO, WATTS, OR ZURN.

# PLUMBING LEGEND

	ANCHOR	AFF	ABOVE FINISHED FLOOR
	AQUASTAT	AD-1	AREA DRAIN — TYPE ONE
O AD	AREA DRAIN	BFP	BACK FLOW PREVENTER
— AD	BALANCING VALVE	BT-1	BATH TUB
	CAP	CI	CAST IRON
	CHECK VALVE	СО	CLEAN OUT
o C.O.	FLOOR CLEAN OUT	CS-1	CLINICAL SINK
<u> </u>	COLD WATER	DCW	COLD WATER (DOMESTIC)
D	DRAIN LINE	CU	COPPER
——— <del>—</del>	DRAIN VALVE	D	DRAIN
<del></del>	DROP DOWN	DF-1	DRINKING FOUNTAIN
⊕ FD	FLOOR DRAIN	DT	DRAIN TILE
⊕ FFD	FLOOR DRAIN WITH FUNNEL	DW-1	DISHWASHER
O OHD	OPEN HUB DRAIN		
		EWC-1	ELECTRIC WATER COOLER
	GATE VALVE	EX	EXISTING TO BE REMAIN
	HOSE BIBB	ETR	EXISTING TO BE RELOCATED
<u> </u>	HOT WATER CIRCULATION	ER	EXISTING TO BE REMOVED
— · · —	HOT WATER	FD	FLOOR DRAIN
1	PLUMBING DIAGRAM — NUMBER ONE POINT OF CONNECTION	FCO	FLOOR CLEAN OUT
<b>(</b>	PRESSURE GAUGE	DWH	DOMESTIC WATER HEATER
	RISE UP	GT	GREASE TRAP
sw	SANITARY SEWER (ABOVE GROUND)	НВ	HOSE BIBB
ST	STORM SEWER (ABOVE GROUND)	OHD	OPEN HUB DRAIN
	STRAINER	HWR	HOT WATER RETURN
<u></u>	TEMPERATURE/PRESSURE RELIEF	DHW	HOT WATER
<u>+'</u>	VALVE	KS KS	KITCHEN SINK
	THERMOMETER	LAV	LAVATORY
	UNION	M	METER
SW	UNDERGROUND SEWER	MB	MOP BASIN
_	(UNDER BUILDING)		
$\bigcirc$	VACUUM BREAKER	RPB	REDUCED PRESSURE BACK FLOW PREVENTER
	VALVE ON RISE	RC SW	ROOF CONDUCTOR SANITARY
	VENT	SW SH	SHOWER
W	WATER DIAGRAM — NUMBER ONE	S	SINK
<u>.</u>		ST	STORM
	SOLENOID VALVE	TPV	TEMPERATURE\PRESSURE RELIEF
<u> </u>	BACK FLOW PREVENTOR	11 <b>V</b>	VALVE
		Т	THERMOMETER
		TYP	TYPICAL
		UR	URINAL
		VB V	VACUUM BREAKER VENT
		V	VERIFY IN FIELD
		VTR	VENT THRU ROOF
		WC	WATER CLOSET
		wc ws	WATER CLOSET WATER SOFTENER
		WHA	WATER HAMMER ARRESTOR

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No.	Description	Date
	30% SUBMITTAL	06/07/2019
	90% SUBMITTAL	08/07/2019

# PLUMBING SYMBOLS & NOTES

Project number	2019-033
Date	08-07-19
Drawn by	LV
Checked by	SC

Scale

<sup>2.</sup> PLUMBING CONTRACTOR SHALL PROVIDE ANDINSTALL BACKFLOW PREEVENTION DEVICES IN ACCORDANCE WITH THE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

#### GENERAL

#### **RELATED DOCUMENTS:**

- 1. THE GENERAL REQUIREMENTS OF THE ARCHITECTURAL SPECIFICATIONS ARE PART OF THESE SPECIFICATIONS. WHERE AN INCONSISTENCY EXISTS BETWEEN THE WORDING OR INTENT, THIS SECTION SHALL TAKE PRECEDENCE. THE STANDARD FORM OF "GENERAL CONDITIONS" ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201, LATEST EDITION, SHALL FORM PART OF THIS CONTRACT.
- 2. CONTRACT DOCUMENTS MAY INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION,

- 1. TERMINOLOGY: AS DEFINED IN MSS SP-90, "GUIDELINES ON TERMINOLOGY FOR PIPE HANGERS AND SUPPORTS."
- 2. WATER DISTRIBUTION PIPING: INTERIOR DOMESTIC WATER PIPING.
- 3. WATER SERVICE: EXTERIOR DOMESTIC WATER PIPING.
- 4. ACCESSIBLE FIXTURE: PLUMBING FIXTURE THAT CAN BE APPROACHED, ENTERED, AND USED BY PEOPLE WITH DISABILITIES.

#### PERFORMANCE REQUIREMENTS:

- 1. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND COMPONENTS.
- 2. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS AND COMPONENTS.
- 3. DESIGN SEISMIC-RESTRAINT (IF APPLICABLE) HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT, AND OBTAIN APPROVAL FROM AUTHORITIES HAVING
- 4. COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING WORKING PRESSURE, UNLESS OTHERWISE INDICATED:
- 4.1. DOMESTIC WATER PIPING: 125 PSIG.
- 4.2. SANITARY WASTE AND VENT PIPING: 10-FOOT HEAD OF WATER.
- 4.3. STORM DRAINAGE PIPING: 10-FOOT HEAD OF WATER. 4.4. FORCE-MAIN: 100 PSIG.

#### SUBMITTALS:

- 1. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ARCHITECT/ENGINEER A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING:
- 1.1. DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND EQUIPMENT. 1.2. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN
- 1.3. PRODUCT DATA.
- 1.4. FIELD-QUALITY CONTROL INSPECTION AND TEST REPORTS
- 1.5. FIELD TEST CERTIFICATES. 1.6. OPERATION AND MAINTENANCE DATA.
- 1.7. EQUIPMENT MANUALS. 1.8. VALVE TAGS. 1.9. WELDING CERTIFICATES.
- 2. ANY DEFERRED CONTRACTOR SUBMITTALS OR CALCULATIONS REQUIRED BY THE LOCAL AHJ. IN ORDER TO OBTAIN OCCUPANCY SHALL BE PROVIDED THE PERMITS, FEES & INSPECTIONS: PLUMBING CONTRACTOR. ALL SUBMITTALS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER, LICENSED IN THE PROJECT JURISDICTION, AS REQUIRED BY THE LOCAL AHJ. THE CONTRACTORS ENGINEER SHALL PREPARE PLANS, CUT SHEETS, CALCULATIONS, ETC. AS REQUIRED. ALL DEFERRED SUBMITTALS SHALL BE SIGNED AND STAMPED BY THE PREPARING ENGINEER. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ANY FEES REQUIRED FOR SUCH SUBMISSION IN HIS BID.

#### CODES AND STANDARDS:

# 1. APPLICABLE CODES:

- 1.1. LOCAL PLUMBING CODE. 1.2. LOCAL DEPARTMENT OF PUBLIC HEALTH.
- 1.3. LOCAL AMENDMENTS TO PLUMBING CODE. 1.4. LOCAL ORDINANCES.
- 2. SYSTEMS SHALL BE DESIGNED, MANUFACTURED, TESTED AND INSTALLED IN ACCORDANCE WITH FOLLOWING STANDARDS:
- AMERICAN NATIONAL STANDARDS INSTITUTE. AIR CONDITIONING AND REFRIGERATION INSTITUTE. ARI AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS. AMERICAN SOCIETY OF MECHANICAL ENGINEERS. **ASPE** AMERICAN SOCIETY OF PLUMBING ENGINEERS.
- ASSE AMERICAN SOCIETY OF SANITARY ENGINEERS. ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS. CISPI CAST IRON SOIL AND PIPE INSTITUTE.
- IAPM0 INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS. ICC INTERNATIONAL CODE COUNCIL. FACTORY MUTUAL STANDARD. NFPA NATIONAL FIRE PROTECTION ASSOCIATION.

#### PLUMBING AND DRAINAGE INSTITUTE UNDERWRITERS LABORATORIES.

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QUALITY ASSURANCE: I. WELDING: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

- 2. FIRE TEST RESPONSE CHARACTERISTICS: INSULATION AND RELATED MATERIALS SHALL HAVE FIRE TEST RESPONSE CHARACTERISTICS INDICATED. AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84, BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. FACTORY LABEL INSULATION AND JACKET MATERIALS AND ADHESIVE, MASTIC, AND CEMENT MATERIAL CONTAINERS, WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AND INSPECTING AGENCY.
- 2.1. INSULATION INSTALLED INDOORS: FLAME SPREAD INDEX OF 25 OR LESS, AND SMOKE DEVELOPED INDEX OF 50 OR LESS.
- 2.2. INSULATION INSTALLED OUTDOORS: FLAME SPREAD INDEX OF 75 OR LESS, AND SMOKE DEVELOPED INDEX OF 150 OR LESS.
- 3. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

# 4. ASME COMPLIANCE:

4.1. ASME B31.9 FOR BUILDING SERVICES PIPING VALVES. 4.2. ASME COMPLIANCE FOR FERROUS VALVES: ASME B16.10 AND ASME

#### B16.34 FOR DIMENSION AND DESIGN CRITERIA.

#### 5. NSF COMPLIANCE:

- 5.1. NSF 14, "PLASTIC PIPING SYSTEM COMPONENTS AND RELATED
- MATERIALS." 5.2. NSF 61, "DRINKING WATER SYSTEM COMPONENTS — HEALTH EFFECTS; SECTIONS 1 THROUGH 9."
- 6. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

#### 7. REGULATORY REQUIREMENTS:

- 7.1. COMPLY WITH PUBLIC LAW 101-336, "AMERICAN WITH DISABILITIES ACT," AND "UNIFORM FEDERAL ACCESSIBILITY STANDARDS."
- 7.2. COMPLY WITH PUBLIC LAW 102-486, "ENERGY POLICY ACT."

#### CONTRACT DOCUMENTS:

- 1. CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS AND BECOME FAMILIAR WITH THE SITE AND LOCAL CONDITIONS RELATING TO WORK AS DESCRIBED HEREIN PRIOR TO SUBMITTING BID PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. IDENTIFY ALL DISCREPANCIES AND NOTIFY ARCHITECT/ENGINEER, IN WRITING.
- 2. THE DRAWINGS INDICATE THE GENERAL LAYOUT OF THE VARIOUS SYSTEM(S) AND EQUIPMENT. THE LAYOUT OF THE SYSTEM(S) EQUIPMENT, ACCESSORIES AND OTHER COMPONENTS ARE DIAGRAMMATIC UNLESS SPECIFICALLY SHOWN OR DIMENSIONED.
- 3. CONTRACTOR SHALL BID ALL WORK AS SHOWN, AND MATERIAL AND EQUIPMENT AS SPECIFIED HEREIN. ANY SUBSTITUTION (NOT APPROVED) DURING THE BIDDING PROCESS TO SECURE AWARD OF THE CONTRACT WILL NOT BE ACKNOWLEDGED.
- 4. CONTRACTOR SHALL BE FINANCIALLY LIABLE FOR ANY REQUIRED ENGINEERING REVIEW DUE TO ANY PROPOSED PRODUCT CHANGE AND/OR VOLUNTARY "VALUE ENGINEERING" DURING THE BIDDING PROCEDURE AND THE SUBMITTAL
- 5. ANY CONFLICTING INFORMATION DEPICTED OR IMPLIED ON THE DRAWINGS IDENTIFIED DURING THE BIDDING PROCESS SHALL BE SUBMITTED FOR CLARIFICATION OF INTENT. FAILURE TO CLARIFY THE ARCHITECT/ENGINEER INTENT. MAY MAKE THE CONTRACTOR LIABLE FOR ANY ASSOCIATED COSTS RELATIVE TO CHANGES DURING THE CONSTRUCTION PROCESS.

#### SPECIFICATIONS AND DRAWINGS:

SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COOPERATIVE. WHAT IS CALLED FOR BY EITHER SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. ANY WORK OR MATERIALS NOT SPECIFICALLY MENTIONED THOUGH REQUIRED TO MAKE THE JOB COMPLETE, SHALL BE FURNISHED AT THE CONTRACTOR'S EXPENSE.

PRIOR TO SUBMITTING BID PROPOSAL, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND EXISTING CONDITIONS FOR DOING WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. FAILURE TO COMPLY SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. CONTRACTOR SHALL IDENTIFY ALL DISCREPANCIES AND NOTIFY ARCHITECT/ENGINEER, IN WRITING.

- CONTRACTOR SHALL PREPARE AND SUBMIT ALL DATA, DRAWINGS AND DETAILS REQUIRED, SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES, INSPECTIONS AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND
- 2. CONTRACTOR SHALL PAY FOR ALL APPLICABLE FEES FOR TEST AND INSPECTIONS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
- 3. WHERE REGULATIONS OF UTILITY COMPANIES APPLY, CONFORMANCE WITH THEIR REGULATIONS IS MANDATORY AND ANY COSTS INVOLVED SHALL BE INCLUDED IN THE CONTRACT.

#### LAWS AND ORDINANCES:

CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF WORK AS 1.2. SHOWN ON DRAWINGS AND SPECIFIED HEREIN. IF CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT/ENGINEER IN WRITING WHEN SUBMITTING BID AND ANY NECESSARY CHANGES SHALL BE ADJUSTED AS PROVIDED IN THE CONTRACT FOR SUCH CHANGES IN WORK. IF CONTRACTOR PERFORMS ANY WORK, CONTRARY TO SUCH LAWS, ORDINANCES, RULES AND REGULATIONS, CONTRACTOR SHALL BEAR ALL COSTS FOR CORRECTING THE WORK.

# TRADE JURISDICTION:

WHEN IT BECOMES NECESSARY FOR THE COMPLETE FULFILLMENT OF THIS WORK FOR THIS CONTRACTOR TO FURNISH LABOR OR MATERIALS OTHER THAN THAT WHICH IS GENERALLY ACCEPTED BY THIS TRADE OR BRANCH OF WORK, THE CONTRACTOR SHALL SUBLET SAME TO A CONTRACTOR ENGAGED IN THE TRADE OR BRANCH OF WORK INVOLVED. THERE SHALL BE NO DELAY TO OR STOPPAGE OF WORK DUE TO THE INFRINGEMENT OR ALLEGED INFRINGEMENT TO TRADE AGREEMENTS AS TO THE JURISDICTION.

#### REQUESTS FOR INFORMATION (RFI'S):

- 1. ALL REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
- 2. IF THERE IS NO CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. SUBMIT RFI'S TO THE ARCHITECT/ENGINEER.
- 3. THERE WILL BE NO RESPONSE TO RFI'S THAT ARE NOT SUBMITTED IN WRITTEN FORM.
- 4. ANY FORMAL OR INFORMAL, OR PHONE CONVERSATION DOES NOT CONSTITUTE THE AUTHORIZATION TO PROCEED.

#### WORKMANSHIP:

ALL LABOR SHALL BE EXECUTED IN A NEAT. WORKMANLIKE MANNER AND SHALL BE PERFORMED BY PERSONS SKILLED IN THEIR RESPECTIVE THE ARCHITECT/ENGINEER SHALL DECIDE ALL MATTERS PERTAINING TO THE QUALITY OF WORKMANSHIP AND MATERIALS.

#### COORDINATION OF WORK:

CONTRACTOR SHALL COORDINATE WITH OTHER CONSTRUCTION TO AVOID INTERFERENCE BEFORE STARTING ANY INSTALLATION. ANY NEGLECT BY THE CONTRACTOR TO COORDINATE WITH OTHER CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.

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#### CUTTING AND PATCHING:

CONTRACTOR SHALL INCLUDE ALL CUTTING AND PATCHING, AS REQUIRED. ALL CORES THROUGH SLABS AND FOUNDATION WALLS SHALL BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL ASSUME ALL LIABILITIES FOR CORES WHICH HAVE NOT BEE APPROVED. PATCH ALL DISTURBED WALL, FLOORS, PARTITIONS, CEILINGS, ETC., RESTORE TO ORIGINAL

#### OPERATING INSTRUCTIONS:

CONTRACTOR SHALL PREPARE A TYPEWRITTEN LIST IN DUPLICATE, OF INSTRUCTIONS OF THE OPERATION OF ALL EQUIPMENT AND SHALL INSTRUCT IN ITS OPERATION. ALL VALVES AND EQUIPMENT SHALL BE MARKED WITH A METAL TAG AND A TYPEWRITTEN SCHEDULE SHALL BE GIVEN TO THE OWNER.

CONTRACTOR SHALL GUARANTEE WORK TO BE FREE FROM DEFECTIVE FINAL CERTIFICATE. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO THE OWNER, UPON OWNER'S REQUEST.

#### PRODUCTS

- . ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS PRODUCTS OF MANUFACTURERS SPECIFIED HEREIN AND OR AS APPROVED BY THE ARCHITECT/ENGINEER OF RECORD.
- 2. THE DESIGN INTENT, SPACE REQUIREMENTS, PERFORMANCE, ETC., ARE BASED ON PRODUCTS OF THE MANUFACTURER(S) INDICATED IN THESE SPECIFICATIONS. UNLESS NOTED OTHERWISE COMPARABLE PRODUCTS OF OTHER MANUFACTURER(S) MAY BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER OF RECORD. PRODUCTS INSTALLED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER SHALL BE REPLACED AT THE CONTRACTOR'S
- MANUFACTURER(S) IDENTIFICATION OF MATERIAL: EACH LENGTH OF PIPE, PIPE FITTING, EQUIPMENT, DEVICE AND APPURTENANCE IN THE FIRE PROTECTION SYSTEM SHALL HAVE CAST, STAMPED OR INDELIBLY MARKED ON IT THE MARKER'S MARK OR NAME, WEIGHT, CLASS OF PRODUCT AND STANDARD THAT APPLIES.

#### PLUMBING FIXTURES:

- 1. PLUMBING FIXTURES AND TRIMMINGS HAVE BEEN SELECTED AS A BASE FOR THIS INSTALLATION, EXCEPT WHERE OTHERWISE SPECIFIED, BUT OTHER MAKES WHICH ARE EQUAL AND APPROVED MAY BE USED. CONTRACTOR SHALL SUBMIT FOR ARCHITECT/ENGINEER'S APPROVAL PORTFOLIO ILLUSTRATING AND DESCRIBING IN DETAIL THE FIXTURES, TRIMMINGS AND VALVES CONTRACTOR CONTEMPLATES USING, GIVING NAMES AND CATALOG NUMBERS OR IDENTIFYING EXECUTION
- 1.1. PLUMBING FIXTURES SHALL BE OF THE BEST QUALITY, GRADE "A", AND SHALL HAVE MANUFACTURER'S GUARANTEE LABEL OR TRADEMARK INDICTING FIRST QUALITY.
- 2. INSTALL/PROVIDE FLUSH VALVES AND/OR FLUSH TANKS WITH HANDLE ON OPEN SIDE OF FIXTURE.
- 3. SET ALL FLOOR FIXTURES ON A WHITE TILE SETTERS GROUT TO FORM A SOLID WATER TIGHT BASE.
- 4. CAULK ALL FIXTURES WATER TIGHT TO WALL AND FLOOR USING CLEAR SILICONE CAULK NEAT AND SMOOTHLY SET IN PLACE AND EXCESS CLEANED FROM WALL OR FIXTURE.
- 5. ALL FIXTURES SHALL BE WATERSENSE LABELED.
- 6. THERMOSTATIC MIXING VALVES, SHALL BE INSTALLED ON ALL SINKS AND LAVATORIES WITHOUT EXCEPTION.

# HANGERS AND SUPPORTS:

- 1. STEEL PIPE HANGERS AND SUPPORTS: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS. REFER TO EXECUTION SECTION "HANGER AND SUPPORT APPLICATIONS."
- 1.1. GALVANIZED, METALLIC COATINGS: PRE-GALVANIZED OR HOT DIPPED. NON-METALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER.
- PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE INSULATION PAD OR CUSHION FOR SUPPORT OF BEARING SURFACE OF
- 2. TRAPEZE PIPE HANGERS: MSS SP-69, TYPE 69, SHOP OR FIELD FABRICATED PIPE-SUPPORT ASSEMBLY MADE FROM STRUCTURAL STEEL SHAPES WITH MSS-SP-58 HANGER RODS, NUTS, SADDLES, AND U-BOLTS.
- 3. METAL FRAMING SYSTEMS: MFMA-3. SHOP OR FIELD FABRICATED PIPE SUPPORT ASSEMBLY MADE OF STEEL CHANNELS AND OTHER COMPONENTS.
- THERMAL HANGER SHIELD INSERTS: 100-PSIG MINIMUM, COMPRESSIVE STRENGTH INSULATION INSERT ENCASED IN SHEET METAL SHIELD.

#### 5. FASTENER SYSTEMS:

- 5.1. POWDER ACTUATED FASTENERS: THREADED STEEL STUD, FOR USE IN SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING
- MATERIALS WHERE USED. MECHANICAL EXPANSION ANCHORS: INSERT WEDGE TYPE, ZINC COATED OR STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE
- 6. EQUIPMENT SUPPORTS: WELDED, SHOP OR FIELD FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL STEEL SHAPES.

# 7. MISCELLANEOUS MATERIALS:

- 7.1. STRUCTURAL STEEL: ASTM A 46/A 36M, STEEL PLATES, AND BARS; BLACK AND GALVANIZED.
- HYDRAULIC-CEMENT, NON-SHRINK AND NON-METALLIC GROUT; SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS. 7.3. PROPERTIES: NON-STAINING, NON-CORROSIVE, AND NON-GASEOUS.

7.2. GROUT: ASTM C 1107, FACTORY-MIXED AND PACKAGED, DRY,

7.4. DESIGN MIX: 5000-PSI, 28-DAY COMPRESSIVE STRENGTH. 8. PROVIDE SEISMIC BRACING OF PIPING BASED ON SEISMIC CATEGORY OF ZONE PROJECT IS BEING CONSTRUCTED.

#### INSULATION:

1. THERMAL INSULATION MATERIALS SHALL MEET THE PROPERTY REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS AS APPLICABLE TO THE SPECIFIC

#### PRODUCT OR END USE:

- 1.1. ASTM C547, ASTM C585, AND ASTM C1136.
- 2. INSULATION MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF ASHRAE 90.1 (LATEST EDITION).
- 3. INSULATION MATERIALS SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH THE FOLLOWING TESTING STANDARDS:

#### 3.1. ASTM E84, UL 723 AND NFPA 255

- 4. INSULATION SHALL BE FIBERGLASS PIPE INSULATION, ONE-PIECE, HINGED SECTION, WITH FACTORY APPLIED WHITE POLYMER FACING, TWO-COMPONENT ADHESIVE CLOSURE SYSTEM, AND MATCHING PRESSURE SENSITIVE TAPE. MANUFACTURER'S DATA REGARDING THICKNESS CONSTRAINTS IN RELATION TO OPERATING TEMPERATURE SHALL BE FOLLOWED. STAPLING IS NOT ALLOWED TO COMPLETE THE CLOSURE.
- WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF 5. MOLDED CLOSED CELL POLYETHYLENE FOAM INSULATION IN NOT ALLOWED OR APPROVED.
  - 6. COVER ALL OF THE FOLLOWING PIPE TYPES LISTED WITH PREMOLDED PIPE INSULATION OF THICKNESS INDICATED, 4 LB. DENSITY AND ASJ JACKET.

#### **INSULATION THICKNESS** (INCHES) DOMESTIC COLD WATER PIPE 1 INCH AND SMALLER PIPE 1-1/4 INCH TO 2 INCH PIPE 2-1/2 INCH AND LARGER DOMESTIC HOT WATER PIPE 2 INCH AND SMALLER PIPE 2-1/2 INCH LARGER 1-1/2

**DOMESTIC HOT WATER (CIRCULATING)** 

PIPE 2 INCH AND SMALLER

PIPE 2-1/2 INCH AND LARGER

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING, FIRE CAULKING AND INSTALLING ALL SYSTEMS WHERE PLUMBING PIPING AND EQUIPMENT PENETRATE FIRE RATED SYSTEMS. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS, FLOORS AND STRUCTURES. MATERIAL SHALL STOP AND PREVENT FIRE AND SMOKE FROM PASSING/PENTRATING

1-1/2

# FIRE BARRIER.

- 1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, FACILITIES, TRANSPORTATION, FEES AND SERVICES NECESSARY FOR A COMPLETE PLUMBING SYSTEM(S) AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. WORKMANSHIP SHALL BE COMPLETE IN EVERY ASPECT, TESTED, APPROVED AND SATISFACTORY TO THE ARCHITECT/ENGINEER AND IN ACCORDANCE WITH LOCAL, STATE AND
- 2. IT IS THE DECLARED AND ACKNOWLEDGED INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING SYSTEM(S). INCLUSIVE OF ALL REQUIRED. LABEL AND IDENTIFICATION: PARTS AND ACCESSORIES COMPLETE AND READY FOR USE AS DESCRIBED, BUT NOT LIMITED TO THE FOLLOWING:
- 2.1. DOMESTIC WATER SERVICE AND DISTRIBUTION.
- 2.2. DOMESTIC HOT WATER.

FEDERAL LAWS HAVING JURISDICTION.

- 2.3. SANITARY DRAINAGE SYSTEM. 2.4. PLUMBING FIXTURES.
- 2.5. PLUMBING EQUIPMENT. 2.6. PLUMBING SPECIALTIES
- 3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK INCLUDED, WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED, INCLUDING THESE DETAILS,

#### WITHOUT EXTRA COST TO THE OWNER. SUBMITTALS AND SHOP DRAWINGS:

- 1. SHOP DRAWING LAYOUT SUBMITTAL(S) SHALL BE A MINIMUM OF 1/8 INCH PER FOOT SCALE, SHOWING ALL PIPING TO BE INSTALLED. DETAILED LAYOUT(S) OF TOILETS, KITCHENS AND EQUIPMENT ROOMS SHALL BE NOT LESS THAN 1/4 INCH PER FOOT SCALE. THE DRAWING SHALL ALSO SHOW THE WORK COORDINATED WITH ALL OTHER TRADES, ALL DRAWINGS SHALL BE SUBMITTED PRIOR TO STARTING ANY WORK, AND IN ACCORDANCE WITH AN APPROVED SCHEDULE, PROVIDED BY THE GENERAL CONTRACTOR, TO AVOID
- ANY DELAY ON THE PROJECT. 2. EQUIPMENT, FIXTURES AND OTHER RELATED APPURTENANCES SHALL BE SUBMITTED IN BOUNDED BOOKLETS. ALL DATA MUST BE CLEARLY LEGIBLE.
- SUBMIT SIX (6) COPIES MINIMUM OF EACH. 3. CONTRACTOR SHALL SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES, SHOP DRAWINGS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
- HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND 4. CONTRACTOR SHALL PREPARE AND FURNISH TO THE OWNER, AN ELECTRONIC SUBMITTAL CONTAINING A COMPLETE LIST OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. EACH PIECE OF EQUIPMENT LISTED SHALL ALSO BE DESCRIBED BY MANUFACTURER(S) MODEL NUMBER, FIGURE NUMBER AND THE COMPONENTS THEREIN WHICH MAKE UP THE PART(S) LIST. ELECTRONIC VERSION OF SHOP DRAWINGS MAY ALSO BE SUBMITTED TO THE
  - 5. SHOP DRAWINGS SHALL INCLUDE CONTRACTOR'S NAME, JOB ADDRESS, MANUFACTURER'S NAME, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS REQUIRED TO IDENTIFY AND REVIEW THE

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- 6. SUBMITTAL REVIEWS ARE A COURTESY REVIEW FOR GENERAL CONFORMANCE AND DO NOT IMPLY A GUARANTEE OF EXISTING CONDITIONS OR BUILDING MEASUREMENTS. A SUBMITTAL REVIEW IN NO WAY ALLEVIATES THE CONTRACTOR OF ENSURING COMPATIBILITY AND FUNCTIONALITY SYSTEMS, COMPONENTS, OR OTHER RESPONSIBILITIES UNDER THE CONTRACT.
- 7. SHOP DRAWINGS WILL REQUIRE A MINIMUM OF (5) BUSINESS DAYS FOR REVIEW. THE CONTRACTOR SHALL INCLUDE THE REQUIRED REVIEW TIME IN ALL PROJECT AND CONSTRUCTION SCHEDULES. THERE SHALL BE NO ADDITIONAL COMPENSATION OR CONSIDERATION FOR FAILURE TO INCLUDE THE PROPER REVIEW TIME.
- 8. NO EQUIPMENT SHALL BE PURCHASED OR INSTALLED WITHOUT AN APPROVED SHOP DRAWING SUBMITTED. FAILURE TO COMPLY WITH THIS PROVISION, THE CONTRACTOR DOES AT HIS OWN RISK.

- 9. ONE (1) WEEK PRIOR TO FINAL INSPECTION, DELIVER TO THE ARCHITECT/ENGINEER TYPEWRITTEN COPIES OF EACH OF THE FOLLOWING:
- 9.1. CERTIFICATION FROM CONTRACTOR THAT ALL EQUIPMENT AND SYSTEM(S)
- HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED. 9.2. CERTIFICATION FROM RESPECTIVE MANUFACTURER(S) AUTHORIZED REPRESENTATIVE THAT EQUIPMENT AND SYSTEM(S) HAVE BEEN
- 9.3. CERTIFICATION FROM AUTHORITY HAVING JURISDICTION THAT ALL EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED, TESTED AND ACCEPTED FROM THE AUTHORITY HAVING JURISDICTION.

PROPERLY INSTALLED, ADJUSTED AND TESTED.

#### INSPECTIONS AND TESTS:

- TESTING SHALL BE DONE IN THE PRESENCE OF GOVERNING AUTHORITY AND OWNER'S REPRESENTATIVE. PROVIDE FIVE (5) DAYS NOTICE TO THE OWNER, ARCHITECT OF RECORD AND GOVERNING AUTHORITY. PROVIDE ALL NECESSARY EQUIPMENT, MATERIAL AND LABOR TO PERFORM TESTS.
- 2. ROUGHED-IN PLUMBING: THE DRAINAGE AND VENT PIPING SYSTEMS SHALL BE TESTED UPON COMPLETION OF ROUGHED-IN PIPING INSTALLATION, BY USING WATER OR AIR TO PROVE WATERTIGHT.
- 3. WATER TEST: WATER TEST SHALL BE APPLIED TO THE DRAINAGE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS AFTER PIPING HAS BEEN ROUGHED-IN. DRAINAGE SYSTEM SHALL NOT BE TESTED WITH LESS THAN TEN (10) FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM OR SECTION BEING TESTED FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION STARTS. TESTING OF THE SYSTEM SHALL CONFIRM THAT THE SYSTEM IS TIGHT AT ALL POINTS.
- 4. AIR TEST: AIR TEST SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO A SUITABLE OPENING AFTER CLOSING ALL OTHER INLETS AND OUTLETS TO THE SYSTEM. FORCE AIR INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF FIVE (5) PI OR SUFFICIENT TO BALANCE A COLUMN OF MERCURY TEN (10) INCHES IN HEIGHT. PRESSURE SHALL BE HELD WITHOUT INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST FIFTEEN (15) MINUTES.
- 5. WATER SUPPLY SYSTEM: WATER SUPPLY SYSTEM SHALL BE TESTED AND PROVED WATERTIGHT UPON COMPLETION OF A SECTION OR THE ENTIRE SYSTEM. SYSTEM SHALL BE TESTED UNDER A WATER PRESSURE OF AT LEAST 1.5 TIMES THE SYSTEM PRESSURE, BUT AT LEAST 100 PSI AT A MINIMUM BY AIR OR WATER. TESTING PRESSURE SHALL BE MAINTAINED FOR A LEAST FIFTEEN (15) MINUTES AND WATER USED FOR TEST SHALL BE FROM

# DISINFECTION OF POTABLE WATER SYSTEM:

1. DISINFECT AND FLUSH POTABLE WATER SYSTEM PER LOCAL PLUMBING, BUILDING, AND HEALTH DEPARTMENT REQUIREMENTS.

POTABLE WATER.

- PLUMBING PRODUCTS AND MATERIALS 1. CHLORINATED WATER SUPPLY: IF WATER SUPPLY SERVING SYSTEM IS CHLORINATED FROM COMMUNITY WATER SYSTEM, SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT
- 2. NON-CHLORINATED WATER SUPPLY: WATER SUPPLY SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT OF OUTLET.

- 1. IDENTIFICATION FOR ALL PIPING SYSTEM(S) SHALL COMPLY WITH ANSI A13.1
- FOR SIZE OF LETTERING AND BACKGROUND COLOR FIELD. 2. PIPING SYSTEM(S): IDENTIFICATION SHALL INCLUDE THE CONTENTS OF THE PIPING SYSTEM(S) AND AN ARROW INDICATING THE DIRECTION OF FLOW. HAZARDOUS PIPING SYSTEM(S) SHALL ALSO CONTAIN INFORMATION ADDRESSING THE NATURE OF THE HAZARD. IDENTIFICATION SHALL BE REPEATED AT MAXIMUM INTERVALS OF TWENTY-FIVE (25) FEET AND AT EACH POINT WHERE PIPING PASSES THROUGH A WALL, FLOOR OR ROOF. COLOR OF THE PIPE IDENTIFICATION SHALL BE DISCERNIBLE AND CONSISTENT
- THROUGHOUT THE BUILDING. 3. EQUIPMENT: IDENTIFICATION SHALL INCLUDE SYSTEM NUMBER, CAPACITY,
- FLOW, RATE, STATIC PRESSURE, PUMP HEAD, HORSEPOWER, VOLTAGE, ETC. . VALVE TAGS: PROVIDE BRASS VALVE TAGS AND BRASS "S" HOOK FASTENERS WITH VALVE NUMBER AND TYPE OF SERVICE NOTED ON TAG. PROVIDE DUPLICATE CHARTS, THE CHART SHALL BE FOR ALL VALVES AND SHALL

# INDICATE VALVE IDENTIFICATION NUMBER, LOCATION AND PURPOSE.

- RECORD DRAWING SUBMITTALS: 1. AT PROJECT CLOSE-OUT, CONTRACTOR SHALL SUBMIT RECORD DRAWINGS (CERTIFIED OR APPROVED) ALSO KNOWN AS "AS-BUILT" DRAWINGS. LAYOUT SUBMITTALS SHALL BE SUBMITTED FOR RECORDS PRIOR TO FINAL ACCEPTANCE IN ELECTRONIC FORM ON COMPACT DISC(S), USING AUTOCAD VERSION 2010 "DWG" FORMAT OR ADOBE ACROBAT "PDF" FORMAT VIEWABLE FROM ADOBE. RECORD DATA EQUIPMENT, FIXTURE AND RELATED
- APPURTENANCES MAY BE SUBMITTED AS BOUND HARDCOPY OR ELECTRONIC ADOBE ACROBAT "PDF" FORMAT.
- 2. PROVIDE RECORD SUBMITTALS AS FOLLOWS:
- 2.2. ARCHITECT OF RECORD: 1 COPY.
- 2.3. ENGINEER OF RECORD: 1 COPY. 3. CONTRACTOR IS NOT ALLOWED TO USE THE CONTRACT DOCUMENTS FOR "AS-BUILT" DRAWINGS. BACKGROUNDS SHALL BE IN THE LATEST RELEASE

#### OF AUTOCAD. PIPING MATERIALS:

- DOMESTIC WATER DISTRIBUTION 1. DOMESTIC WATER DISTRIBUTION (3 INCH AND SMALLER): HARD COPPER TUBE,
- 1.1. PRESSURE FITTINGS: ASME B16.18 OR B16.22.

ASTM B88, TYPE L, WATER TUBE, DRAWN TEMPER.

2.1. SCHEDULE 40, LEAD AND OAKUM JOINTS

- 1.2. BRONZE FLANGES: ASME B16.24, CLASS 150. 1.3. UNIONS: MSS SP-123. 1.4. GROOVED-END FITTINGS: ASTM B75 COPPER TUBE OR ASTM B584 BRONZE CASTINGS.
- SOIL. WASTE AND VENT PIPING 1. ABOVEGROUND SOIL, WASTE AND VENT PIPING: SCHEDULE 40 HUB AND SPIGOT WITH LEAD AND OAKUM JOINTS, PIPE AND FITTINGS.

2. ABOVEGROUND SOIL, WASTE AND VENT PIPING: CAST IRON PIPE AND FITTINGS.

PLUMBING GENERAL NOTES

- 1. PLUMBING GENERAL NOTES ON THESE DRAWINGS ARE A PART OF THE PLUMBING SPECIFICATIONS TO THE SAME EXTENT AS IF WRITTEN HEREIN
- ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AND STATE GOVERNING CODES, ORDINANCES AND HEALTH DEPARTMENT
- 3. THE INTENT OF THESE DRAWINGS IS TO FURNISH THE OWNER WITH A
- 4. FURNISH AND INSTALL A COMPLETE AND OPERABLE SOIL, WASTE AND VENT SYSTEM WITH FINAL CONNECTIONS TO ALL FIXTURES, APPLIANCES, DRAINS, EQUIPMENT, STRUCTURES, ETC., REQUIRING DRAINAGE. CONNECTIONS THERETO TO CONVEYANCE TO THE PUBLIC SEWER SYSTEM.

PLUMBING INSTALLATION READY FOR USE AND COMPLETE IN EVERY ASPECT.

- 4.1. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED AT UNIFORM SLOPES
- NOT LESS THAN THE FOLLOWING: 4.1.1. PIPING LESS THAN FOUR (4) INCHES: 1/4 INCH PER LINEAL FOOT. 4.1.2. PIPING FOUR (4) INCHES AND LARGER: 1/8 INCH PER LINEAL FOOT.

4.1.3. UNLESS OTHERWISE INDICATED ON DRAWINGS, UNDERGROUND

- 4.1.4. PIPING SHALL BE A MINIMUM OF FOUR (4) INCHES. 4.1.5. VENT PIPING SHALL BE MINIMALLY SLOPED BACK TO DRAINAGE
- 5. FURNISH AND INSTALL A COMPLETE AND OPERABLE DOMESTIC WATER DISTRIBUTION SYSTEM WITH FINAL CONNECTIONS TO ALL PLUMBING FIXTURES APPLIANCES, EQUIPMENT, WALL HYDRANTS, ETC., REQUIRING DOMESTIC WATER CONNECTIONS THERETO FROM THE DOMESTIC WATER SERVICE.
- 8. FURNISH AND INSTALL ALL PLUMBING FIXTURES, EQUIPMENT, APPLIANCES, COMPLETE WITH ALL NECESSARY AND REQUIRED TRIMMINGS, ACCESSORIES, COMPONENTS AND APPURTENANCES INCLUDING BUT NOT LIMITED TO P-TRAPS, BACKFLOW DEVICES, AIR CHAMBERS, STOPS AND SUPPLIES, HANGERS, SUPPORTS, ANCHORS, CARRIERS, TAILPIPES, TEMPERING VALVES,
- ALL PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS OF THE BUILDING, OR AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. PLACE ALL HANGERS ON EIGHT (8) FOOT CENTERS.
- 9.1. PIPES ONE (1) INCH IN DIAMETER OR LESS: SOLID OR SPLIT RING
- 9.2. PIPES LARGER THAN ONE (1) INCH: STANDARD WEIGHT CLEVIS 9.3. INSULATED PIPING: SEMI-CIRCULAR SHIELD.

10. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO ACCESS ANY VALVES OR

ANY PLUMBING ITEMS REQUIRING ACCESS FOR MAINTENANCE. CONTRACTOR

ACCESS PANELS FOR APPROVAL BY THE ARCHITECT. CONTRACTOR SHALL

SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL LOCATION AND SIZES OF

# PROVIDE ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION

- 1. FCO (FINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LACQUERED CAST IRON BODY, SECONDARY CLOSURE PLUG, STAINLESS STEEL COMBINED ROUND (SQUARE IN TILED AREAS) COVER AND PLUG TOP ASSEMBLY. STAINLESS
- STEEL VANDAL RESISTANT SECURITY SCREWS.
- 1.2. MANUFACTURER: MIFAB SERIES C1220-S-6-34B (TILED AREAS). 2. FCO (UNFINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LACQUERED CAST IRON BODY, SECONDARY BRASS CLOSURE PLUG, SCORIATED COMBINED DUCTILE IRON ROUND COVER AND PLUG TOP ASSEMBLY. STAINLESS STEEL
- 2.1. MANUFACTURER: MIFAB SERIES C1220-4-6-34B.

3.1. MANUFACTURER: MIFAB SERIES C1460-R6-3-6.

VANDAL RESISTANT SECURITY SCREWS.

1.1. MANUFACTURER: MIFAB SERIES C1220-3-6-34B

ACCESS AREA AND THREADED PLUG, STAINLESS STEEL 6 INCH ROUND (SQUARE IN TILED AREAS) COVER AND FRAME ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS.

3. WCO (FINISHED AREAS): LACQUERED CAST IRON CLEANOUT WITH LARGE

3.2. MANUFACTURER: MIFAB SERIES C1460-S7-3-6 (TILED AREAS). . BALL VALVE (1/2 INCH TO 2-1/2 INCH) FULL PORT OPENING, 2 PIECE

BRASS BODY, BLOW OUT PROOF STEM, THE SEATS, THE WITH ADJUSTABLE

- STEM PACKING GLAND, FREE-FLOATING CHROME PLATED BRASS BALL, 100 PERCENT FACTORY TESTED.
- 1.1. MANUFACTURER: HAMMOND VALVE SERVICE 8300. BALANCING VALVE: DEZINCIFICATION RESISTANT BRASS BODY, BONNET AND TRIM, NON-RISING STEM, SCREWED BONNET, PARABOLIC REGULATING DISK, DOUBLE REGULATING (MEMORY STOP) DEVICE, FLOW MEASUREMENT ACCURACY, SUPPLIED FITTED WITH TWO DUSEAL TEST POINTS, END CONNECTIONS THREADED TO ANSI B1.20 AND SOLDER END TO ANSI B16.18, DRAIN PLUG, PRE-FORMED INSULATION.

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	30% SUBMITTAL	06/07/2019
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PLUMBING SPECS

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