ASPIRE BREWING

PROPOSED TAP ROOM & BREWERY
SONNY PATEL BREWING COMPANY, INC.
400 North Galleria Drive
Town of Wallkill, NY 10941

Symbols

GRADE LINE
BORDER LINE, OUTLINE
FIRE SEPARATION WALL SMOKE COMPARTMENT
CENTER LINE
OBJECT LINE
ELEVATION LINE — EL. X'-X" T.O. XXX
MATCH LINE — PROPOSED / EXISTING
HIDDEN LINE
DEMOLITION
BREAK LINE
BREAK LINE
BREAK LINE (PIPE)
FRAMING DESIGNATION — 2x10 F.J. @ 16" O.C.
DIMENSION LINE
COLUMN LINE — C1

DOOR TAG — D01
WINDOW TAG — W1
CEILING TAG — CT-1
PLUMBING TAG — P-1
EQUIPMENT TAG — E11
WALL TAG — A
DEMOLITION NOTE — 1
CONSTRUCTION NOTE — 1
SLOPE DESIGNATIONS — 12 X, SL ½"/12
ADA SYMBOL

REVISION CLOUD W/ TAG — 1
ROOM NAME DESIGNATION — ROOM NAME, 100, 100 SF
BLOW UP PLAN DESIGNATION
INTERIOR ELEVATION — 1, 2, A2.01, 3, 4
SECTION MARK — 1, A2.01

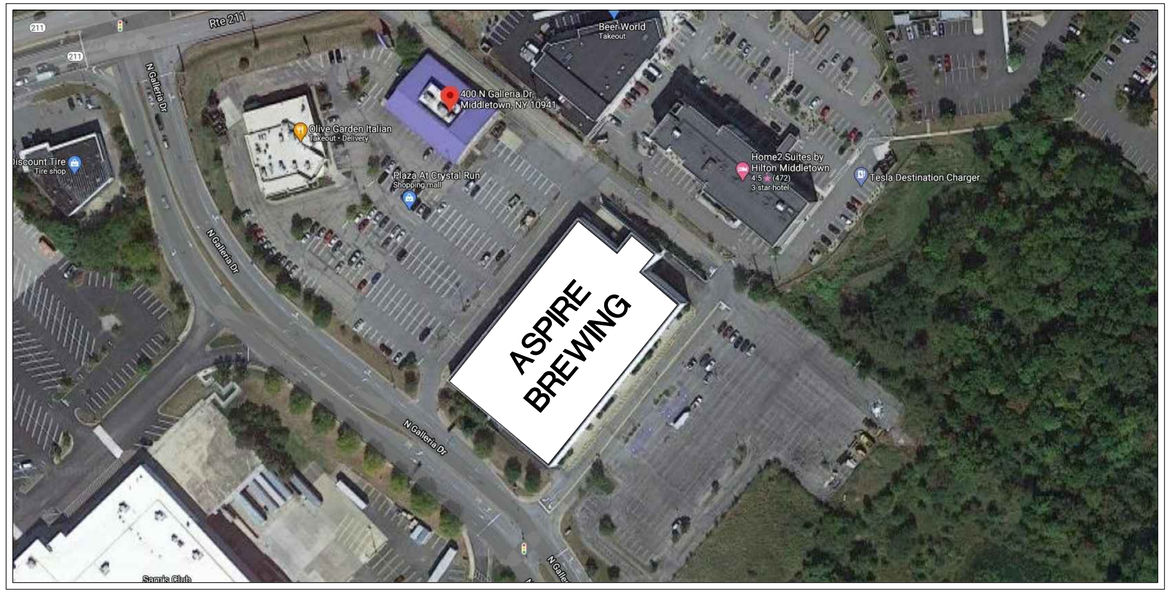
Drawing Label — A-.-- — -"= 1'-0"

Location Map

NOT TO SCALE

Aerial View

NOT TO SCALE



General Notes

1. ALL WORK SHALL CONFORM TO THE 2020 INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NEW YORK STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK.
3. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL NOTES OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
5. IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN NOTES ON THE DRAWINGS, OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ARCHITECT SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
6. DETAILS NOTED AS "TYPICAL" (TYP.) SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
7. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL AND SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION.
8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC TO BE PROTECTED FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
11. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM THEIR OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER UPON COMPLETION OF WORK. ANY EXTRA BUILDING MATERIALS SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AS DIRECTED. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF SALVAGED OR EXCESS MATERIALS AT PROJECT COMPLETION. THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
13. ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
14. CONTRACTOR SHALL COORDINATE SCHEDULING OF WORK WITH THE OWNER'S REQUIREMENTS AND SCHEDULE. CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LOCAL NOISE ORDINANCES REQUIREMENTS.
15. CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF THEIR WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL. IF REQUIRED, THE CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO ALL UTILITIES AND PUBLIC FACILITIES INCLUDING FIRE HYDRANTS, FIRE ALARM BOXES, POLICE CALL BOXES, STREET LIGHTS, MANHOLES, AMONG OTHERS DURING DEMOLITION AND CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
18. THE CONTRACTOR SHALL SUBMIT WHERE REQUIRED, SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO THE START OF FABRICATION OR PURCHASE OF THOSE ITEMS.
19. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
21. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH EACH MANUFACTURER'S SPECIFIC INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE KIND AND EQUAL QUALITY.
22. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
23. THE ARCHITECT AND THE OWNER HAVE THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED OR WORK DONE CONTRARY TO THE THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
24. THE CONTRACTOR SHALL GUARANTEE ALL OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS FOR A PERIOD ONE YEAR AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
25. IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
26. THE CONTRACTOR SHALL PROVIDE SAFE AND SANITARY CONDITIONS WHERE DEMOLITION AND WRECKING OPERATIONS ARE BEING CARRIED ON. WORK SHALL BE EXECUTED IN SUCH A MANNER THAT HAZARD FROM FIRE, POSSIBILITY OF INJURY, DANGER TO HEALTH AND CONDITIONS WHICH MAY CONSTITUTE A PUBLIC NUISANCE SHALL BE MINIMIZED.
27. THE ARCHITECT WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS AS WELL AS FAILURE TO OBTAIN AND/OR FOLLOW THE ARCHITECT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
28. COLOR, FINISHING & TEXTURE OF ALL FINISH MATERIALS, WHERE NOT INDICATED ON THE DRAWINGS, SHALL BE SELECTED BY OWNER.
29. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, AND NFPA 70.
30. CONTRACTORS OR ANY SUBCONTRACTORS PERFORMING WORK UNDER THIS CONTRACT SHALL CARRY LIABILITY AND PROPERTY DAMAGE INSURANCE AGAINST ACCIDENTS OF ALL KINDS AND SHALL FURNISH OWNER WITH CERTIFICATE OF INSURANCE.
31. ALL WORK IN THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING.
32. WHERE SPECIFIC PRODUCTS OR MANUFACTURERS ARE INDICATED, IT IS TO BE UNDERSTOOD THAT THIS IS CONSIDERED THE BASIS OF DESIGN, AND "EQUALS" WILL BE APPROVED BY THE ARCHITECT OR ENGINEER UPON SATISFACTORY EVIDENCE THAT THE SUBSTITUTION MEETS OR EXCEEDS THE BASIS OF DESIGN.

Drawing Index

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Revisions:
1 PERMIT SET 10/15/21

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TITLE SHEET AND GENERAL NOTES
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201T001

T0.01

Code Analysis

Design Building Codes

2020 Existing Building Code of NYS - Adopts with Amendments: International Existing Building Code 2018 (IEBC 2018)
2020 Building Code of New York State - Adopts with Amendments: International Building Code 2018 (IBC 2018)
2020 Mechanical Code of NYS - Adopts with Amendments: International Mechanical Code 2018 (IMC 2018)
2020 Plumbing Code of NYS - Adopts with Amendments: International Plumbing Code 2018 (IPC 2018)
2020 Energy Conservation Code of NYS - Adopts with Amendments: International Energy Conservation Code 2018 (IECC 2018)
2020 Fire Code of NYS - Adopts with Amendments: International Fire Code 2018 (IFC 2018)
National Electric Code (NEC)
National Fire Protection Association (NFPA)
2010 ADA Standards
Town of Wallkill Building Code

2020 Existing Building Code of NYS

Chapter 6 Classification of Work

Section 603 Alteration--Level 2

603.1 Scope
Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment.

603.2 Application
Level 2 alterations shall comply with the provisions of Chapter 7 for Level 1 alterations as well as the provisions of Chapter 8.

Chapter 7 Alterations -- Level 1

Section 701 General

701.2 Conformance
An existing building or portion thereof shall not be altered such that the building becomes less safe than its existing condition.

Section 703 Fire Protection

703.1 General
Alterations shall be done in a manner that maintains the level of fire protection provided.

Section 704 Means of Egress

704.1 General
Alterations shall be done in a manner that maintains the level of protection provided for the means of egress.

Chapter 8 Alterations -- Level 2

Section 801 General

801.3 Compliance
New construction elements, components, systems, and spaces shall comply with the requirements of the Building Code of New York State.
Exceptions:
1. Where windows are added they are not required to comply with the light and ventilation requirements of the Building Code of New York State.
2. Newly installed electrical equipment shall comply with the requirements of Section 807.
3. The length of dead-end corridors in newly constructed spaces shall only be required to comply with the provisions of Section 805.6.
4. The minimum ceiling height of the newly created habitable and occupiable spaces and corridors shall be 7 feet (2134 mm).

Section 802 Building Elements and Materials

802.4 Interior Finish
The interior finish of walls and ceilings in exits and corridors in any work area shall comply with the requirements of the Building Code of New York State.

Section 805 Means of Egress

805.3.1 Minimum Number
Every story utilized for human occupancy on which there is a work area that includes exits or corridors shared by more than one tenant within the work area shall be provided with the minimum number of exits based on the occupancy and the occupant load in accordance with the Building Code of New York State. In addition, the exits shall comply with Sections 805.3.1.1 and 805.3.1.2.

805.3.3 Main Entrance--Group A
Buildings of Group A with an occupant load of 300 or more shall be provided with a main entrance capable of serving as the main exit with an egress capacity of not less than one-half of the total occupant load. The remaining exits shall be capable of providing one-half of the total required exit capacity.

805.4.1.1 Occupant Load and Travel Distance
In any work area, all rooms and spaces having an occupant load greater than 50 or in which the travel distance to an exit exceeds 75 feet (22860 mm) shall have not fewer than two egress doorways.

805.4.2 Door Swing
In the work area and in the egress path from any work area to the exit discharge, all egress doors serving an occupant load greater than 50 shall swing in the direction of exit travel.

805.4.3 Door Closing
In any work area, all doors opening onto an exit passageway at grade or an exit stairway shall be self-closing or automatic-closing by listed closing devices.
Exceptions:
2. Means of egress within or serving only a tenant space that is entirely outside the work area.

805.4.4 Panic Hardware
In any work area, and in the egress path from any work area to the exit discharge, in buildings or portions thereof of Group A assembly occupancies with an occupant load greater than 100, all required exit doors equipped with latching devices shall be equipped with approved panic hardware.

805.6 Dead-End Corridors
Dead-end corridors in any work area shall not exceed 35 feet (10 670 mm).
Exceptions:
4. In other than Group A and H occupancies, the maximum length of an existing, newly constructed, or extended dead-end corridor shall not exceed 50 feet (15 240 mm) on floors equipped with an automatic sprinkler system installed in accordance with the Building Code of New York State.

Section 810 Energy Conservation

810.1 Minimum Requirements
Level 2 alterations to existing buildings or structures are permitted without requiring the entire building or structure to comply with the energy requirements of the Energy Conservation Construction Code of New York State or Residential Code of New York State. The alterations shall conform to the energy requirements of the Energy Conservation Construction Code of New York State or Residential Code of New York State as they relate to new construction only.

Chapter 10 Change of Occupancy

Section 1009 Plumbing

1009.1 Increased Demand
Where the occupancy of an existing building or part of an existing building is changed such that the new occupancy is subject to increased or different plumbing fixture requirements or to increased water supply requirements in accordance with the Plumbing Code of New York State, the new occupancy shall comply with the intent of the respective Plumbing Code of New York State provisions.

1011.3 Interior Finish
In areas of the building undergoing the change of occupancy classification, the interior finish of walls and ceilings shall comply with the requirements of the Building Code of New York State for the new occupancy classification.

Table 1011.4
Means Of Egress Hazard Categories
Original Occupancy: M - Relative hazard 3
Change of Occupancy: A - Relative hazard 3 (Equal), B; S-1 - Relative hazard 4 (Lower-hazard), S-2 - Relative hazard 5 (Lower-hazard)

Original Occupancy: A - Relative hazard 3
Change of Occupancy: B - Relative hazard 4 (Lower-hazard), F-2; S-2 - Relative hazard 5 (Lower-hazard)

1011.4.2 Means of Egress for Change of Use to an Equal or Lower-Hazard Category
Where a change of occupancy classification is made to an equal or lesser-hazard category (higher number) as shown in Table 1011.4, existing elements of the means of egress shall comply with the requirements of Section 905 for the new occupancy classification. Newly constructed or configured means of egress shall comply with the requirements of Chapter 10 of the Building Code of New York State.

1011.4.3 Egress Capacity
Egress capacity shall meet or exceed the occupant load as specified in the Building Code of New York State for the new occupancy.

1011.5 Heights and Areas
Heights And Areas Hazard Categories
Original Occupancy: M - Relative hazard 3
Change of Occupancy: A-2; A-3 - Relative hazard 2 (**Higher-hazard**), S-1 - Relative hazard 3 (Equal), B; S-2 - Relative hazard 4 (Lower-hazard)

Original Occupancy: A-2 - Relative hazard 2
Change of Occupancy: A-3 - Relative hazard 2 (Equal), B; F-2; S-2 - Relative hazard 4 (Lower-hazard)

1011.5.1 Height and Area for Change to a Higher-Hazard Category
Where a change of occupancy classification is made to a higher-hazard category as shown in Table 1011.5, heights and areas of buildings and structures shall comply with the requirements of Chapter 5 of the Building Code of New York State for the new occupancy classification.

Chapter 15 Construction Safeguards

Section 1501 General

[BG] 1501.3 Alterations, Repairs and Additions
Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure.
Exceptions:
1. Where such required elements or devices are being altered or repaired, adequate substitute provisions shall be made.

2020 Building Code of New York State

Chapter 3 Occupancy Classification and Use

303.3 Assembly Group **A-2**
Group A-2 occupancy includes assembly uses intended for food and/or drink consumption including, but not limited to:
Restaurants, cafeterias and similar dining facilities (including associated commercial kitchens)
Taverns and bars

303.4 Assembly Group **A-3**
Group A-3 occupancy includes assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A including, but not limited to:
Amusement arcades
Gymnasiums (without spectator seating)
Lecture halls

304.1 Business Group **B**
Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for **office**, professional or service-type transactions, including storage of records and accounts.

306.3 Low-Hazard Factory Industrial, Group **F-2**
Factory industrial uses that involve the fabrication or manufacturing of noncombustible materials that during finishing, packing or processing do not involve a significant fire hazard shall be classified as F-2 occupancies and shall include, but not be limited to, the following:
Beverages: up to and including 16-percent alcohol content

309.1 Mercantile Group **M**
Mercantile Group M occupancy includes, among others, the use of a building or structure or a portion thereof for the display and sale of merchandise, and involves stocks of goods, wares or merchandise incidental to such purposes and accessible to the public. Mercantile occupancies shall include, but not be limited to, the following:
Retail or wholesale stores

311.2 Moderate-Hazard Storage, Group **S-1**
Storage Group S-1 occupancies are buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following:
Furniture

311.3 Low-Hazard Storage, Group **S-2**
Storage Group S-2 occupancies include, among others, buildings used for the storage of noncombustible materials such as products on wood pallets or in paper cartons with or without single thickness divisions; or in paper wrappings. Such products are permitted to have a negligible amount of plastic trim, such as knobs, handles or film wrapping. Group S-2 storage uses shall include, but not be limited to, storage of the following:
Beverages up to and including 16-percent alcohol in metal, glass or ceramic containers
Food products

Chapter 5 General Building Heights and Areas

Section 506 Building Area

506.2.4 Mixed-Occupancy, Multistory Buildings
Each story of a mixed-occupancy building with more than one story above grade plane shall individually comply with the applicable requirements of Section 508.1. (Note: remainder does not apply)

506.3 Frontage Increase
Every building shall adjoin or have access to a public way to receive an area factor increase based on frontage. Area factor increase shall be determined in accordance with Sections 506.3.1 through 506.3.3.

506.3.3 Amount of Increase
The area factor increase based on frontage shall be determined in accordance with Equation 5-5:

If = [F/P - 0.25]W/30
If = [936'/936' - 0.25]30/30
If = **0.75**

(Note: Frontage increase per occupancy, see 508.4.2)

A-2
Aa = [At + (NS x If)]
Aa = [28,500 + (9,500 x 0.75)]
Aa = 35,625

A-3
Aa = [At + (NS x If)]
Aa = [28,500 + (9,500 x 0.75)]
Aa = 35,625

B
Aa = [At + (NS x If)]
Aa = [69,000 + (23,000 x 0.75)]
Aa = 86,250

F-2
Aa = [At + (NS x If)]
Aa = [69,000 + (23,000 x 0.75)]
Aa = 86,250

M
Aa = [At + (NS x If)]
Aa = [37,500 + (12,500 x 0.75)]
Aa = 46,875

S-1
Aa = [At + (NS x If)]
Aa = [52,500 + (17,500 x 0.75)]
Aa = 65,625

S-2
Aa = [At + (NS x If)]
Aa = [78,000 + (26,000 x 0.75)]
Aa = 97,500

Section 508 Mixed Use and Occupancy

508.1 General
Each portion of a building shall be individually classified in accordance with Section 302.1. Where a building contains more than one occupancy group, the building or portion thereof shall comply with the applicable provisions of Section 508.2, 508.3 or 508.4, or a combination of these sections.

508.2 Accessory Occupancies
Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. Accessory occupancies shall comply with the provisions of Sections 508.2.1 through 508.2.4.

508.2.3 Allowable Building Area
The allowable area of the building shall be based on the applicable provisions of Section 506 for the main occupancy of the building. Aggregate accessory occupancies shall not occupy more than 10 percent of the floor area of the story in which they are located and shall not exceed the tabular values for nonsprinklered buildings in Table 506.2 for each such accessory occupancy.

508.2.4 Separation of Occupancies
No separation is required between accessory occupancies and the main occupancy.

508.4 Separated Occupancies
Buildings or portions of buildings that comply with the provisions of this section shall be considered as separated occupancies.

Table 508.4 required separation of occupancies (hours)
Occupancy A - F-2, S-2: (S) No separation requirement; B, M, S-1: (S) 1-hour
Occupancy F-2, S-2 - A: (S) No separation requirement; B, M, S-1: (S) 1-hour
Occupancy B, M, S-1 - A, F-2, S-2: (S) 1-hour

508.4.2 Allowable Building Area
In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.

(Note: Occupancies at first story, see 506.3.3 for frontage increase for allowable building area)

A-2	12,101	(actual building area)	/ 35,625	(allowable building area) =	0.340
A-3	9,857	(actual building area)	/ 35,625	(allowable building area) =	0.277
B	3,676	(actual building area)	/ 86,250	(allowable building area) =	0.043
F-2	6,541	(actual building area)	/ 86,250	(allowable building area) =	0.076
M	8,741	(actual building area)	/ 46,875	(allowable building area) =	0.186
S-1	561	(actual building area)	/ 65,625	(allowable building area) =	0.009
S-2	1,888	(actual building area)	/ 97,500	(allowable building area) =	0.019

Total = 0.949 (Allowable: 1)

508.4.4 Separation
Individual occupancies shall be separated from adjacent occupancies in accordance with Table 508.4.

508.4.4.1 Construction
Required separations shall be fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both, so as to completely separate adjacent occupancies.

Chapter 6 Types of Construction

Table 601 Fire-resistance Rating Requirements For Building Elements (Hours)
Type of Construction: **IIB(S)**
Primary structural frame: 0
Bearing walls (Exterior): 0
Bearing walls (Interior): 0
Nonbearing walls and partitions (Exterior) (Per Table 602):
Occupancy group: A, B, F-2
X < 5': 1
5' ≤ X < 10': 1
10' ≤ X < 30': 0
X ≥ 30': 0
Occupancy group: M
X < 5': 2
5' ≤ X < 10': 1
10' ≤ X < 30': 0
X ≥ 30': 0
Nonbearing walls and partitions (Interior): 0
Floor construction and associated secondary members: 0
Roof construction and associated secondary members: 0

Section 603 Combustible Material in Types I and II Construction

603.1 Allowable Materials
Combustible materials shall be permitted in buildings of Type I or II construction in the following applications and in accordance with Sections 603.1.1 through 603.1.3:

Chapter 7 Fire and Smoke Protection Features

Section 703 Fire-Resistance Ratings and Fire Tests

703.6 Fire-Resistance-Rated Glazing
Fire-resistance-rated glazing, when tested in accordance with ASTM E119 or UL 263 and complying with the requirements of Section 707, shall be permitted. Fire-resistance-rated glazing shall bear a label marked in accordance with Table 716.1(1) issued by an agency and shall be permanently identified on the glazing.

Section 707 Fire Barriers

707.3.1 Shaft Enclosures
The fire-resistance rating of the fire barrier separating building areas from a shaft shall comply with Section 713.4.

707.3.4 Exit Passageway
The fire-resistance rating of the fire barrier separating building areas from an exit passageway shall comply with Section 1024.3.

707.3.9 Separated Occupancies
Where the provisions of Section 508.4 are applicable, the fire barrier separating mixed occupancies shall have a fire-resistance rating of not less than that indicated in Table 508.4 based on the occupancies being separated.

707.5 Continuity
Fire barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto. Such fire barriers shall be continuous through concealed space, such as the space above a suspended ceiling. Joints and voids at intersections shall comply with Sections 707.8 and 707.9

707.6 Openings
Openings in a fire barrier shall be protected in accordance with Section 716. Openings shall be limited to a maximum aggregate width of 25 percent of the length of the wall, and the maximum area of any single opening shall not exceed 156 square feet (15 m2). Openings in enclosures for exit access stairways and ramps, interior exit stairways and ramps and exit passageways shall also comply with Sections 1019, 1023.4 and 1024.5, respectively.
Exceptions:
1. Openings shall not be limited to 156 square feet (15 m2) where adjoining floor areas are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
3. Openings shall not be limited to 156 square feet (15 m2) or an aggregate width of 25 percent of the length of the wall where the opening protective has been tested in accordance with ASTM E119 or UL 263 and has a minimum fire-resistance rating not less than the fire-resistance rating of the wall.

Section 708 Fire Partitions

708.1 General
The following wall assemblies shall comply with this section.
3. Corridor walls as required by Section 1020.1. (Note: **0** hours required. See 1020.1)

Section 713 Shaft Enclosures

713.2 Construction
Shaft enclosures shall be constructed as fire barriers in accordance with Section 707 or horizontal assemblies in accordance with Section 711, or both.

713.4 Fire-Resistance Rating
Shaft enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more, and not less than **1 hour where connecting less than four stories**. The number of stories connected by the shaft enclosure shall include any basements but not any mezzanines. Shaft enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours. Shaft enclosures shall meet the requirements of Section 703.2.1.

713.8 Penetrations
Penetrations in a shaft enclosure shall be protected in accordance with Section 714 as required for fire barriers. Structural elements, such as beams or joists, where protected in accordance with Section 714 shall be permitted to penetrate a shaft enclosure.

713.10 Duct and Air Transfer Openings
Penetrations of a shaft enclosure by ducts and air transfer openings shall comply with Section 717.

713.11 Enclosure at the Bottom
Shafts that do not extend to the bottom of the building or structure shall comply with one of the following:
1. They shall be enclosed at the lowest level with construction of the same fire-resistance rating as the lowest floor through which the shaft passes, but not less than the rating required for the shaft enclosure.
2. They shall terminate in a room having a use related to the purpose of the shaft. The room shall be separated from the remainder of the building by fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both. The fire-resistance rating and opening protectives shall be not less than the protection required for the shaft enclosure.
3. They shall be protected by approved fire dampers installed in accordance with their listing at the lowest floor level within the shaft enclosure.

713.12 Enclosure at Top
A shaft enclosure that does not extend to the underside of the roof sheathing, deck or slab of the building shall be enclosed at the top with construction of the same fire-resistance rating as the topmost floor penetrated by the shaft, but not less than the fire-resistance rating required for the shaft enclosure.

Section 716 Opening Protectives

Table 716.1(2) Opening Fire Protection Assemblies, Ratings And Markings

Type of Assembly:
Fire barriers having a required fire-resistance rating of 1 hour: Enclosures for **shafts**, exit access stairways, exit access ramps, interior exit stairways and interior exit ramps; and **exit passageway walls**
Required Wall Assembly Rating (hours): 1
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 1
Door Vision Panel Size: 100 sq. in.
Fire Rated Glazing Marking Door Vision Panel:
<100 sq. in. = D-H-60; > 100 sq. in.= D-H-T-W-60
Minimum Sidelight/Transom Assembly Rating (hours): Fire-resistance 1
Fire-Rated Glazing Marking Sidelight/Transom Panel: Fire-resistance W-60

Type of Assembly:
Other fire barriers
Required Wall Assembly Rating (hours): 1
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 3/4
Door Vision Panel Size: Maximum size tested
Fire Rated Glazing Marking Door Vision Panel: D-H
Minimum Sidelight/Transom Assembly Rating (hours): 3/4
Fire-Rated Glazing Marking Sidelight/Transom Panel: D-H

Chapter 8 Interior Finishes

Section 802 General

802.5 Application
Combustible materials shall be permitted to be used as finish for walls, ceilings, floors and other interior surfaces of buildings.

Section 803 Wall and Ceiling Finishes

Table 803.13
Interior Wall And Ceiling Finish Requirements By Occupancy

Group: A-2 (Sprinklered)
Interior exit stairways and ramps and exit passageways: B
Corridors and enclosure for exit access stairways and ramps: B
Rooms and enclosed spaces: C

Group: A-3 (Sprinklered)
Interior exit stairways and ramps and exit passageways: B
Corridors and enclosure for exit access stairways and ramps: B
Rooms and enclosed spaces: C

Group: B, M (Sprinklered)
Interior exit stairways and ramps and exit passageways: B
Corridors and enclosure for exit access stairways and ramps: C
Rooms and enclosed spaces: C

Group: F (Sprinklered)
Interior exit stairways and ramps and exit passageways: C
Corridors and enclosure for exit access stairways and ramps: C
Rooms and enclosed spaces: C

Group: S (Sprinklered)
Interior exit stairways and ramps and exit passageways: C
Corridors and enclosure for exit access stairways and ramps: C
Rooms and enclosed spaces: C

Section 804 Interior Floor Finish

804.1 General
Interior floor finish and floor covering materials shall comply with Sections 804.2 through 804.4.2.
Exception: Floor finishes and coverings of a traditional type, such as wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not comprised of fibers.

Section 806 Decorative Materials and Trim

[F] 806.1 General
The following requirements shall apply to all occupancies:
1. Furnishings or decorative materials of an explosive or highly flammable character shall not be used.
2. Fire-retardant coatings in existing buildings shall be maintained so as to retain the effectiveness of the treatment under service conditions encountered in actual use.
3. Furnishings or other objects shall not be placed to obstruct exits, access thereto, egress therefrom or visibility thereof.
4. The permissible amount of decorative vegetation and noncombustible decorative materials shall not be limited.

Chapter 9 Fire Protection and Life Safety Systems

(Note: See MEP drawings for information regarding this chapter)

Chapter 10 Means of Egress

Section 1003 General Means of Egress

1003.3.1 Headroom
Protruding objects are permitted to extend below the minimum ceiling height required by Section 1003.2 where a minimum headroom of 80 inches (2032 mm) is provided over any circulation paths, including walks, corridors, aisles and passageways. Not more than 50 percent of the ceiling area of a means of egress shall be reduced in height by protruding objects.

1003.3.3 Horizontal Projections
Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finished floor shall not project horizontally more than 4 inches (102 mm) into the circulation path.

Section 1004 Occupant Load

1004.5 Areas Without Fixed Seating
TABLE 1004.5MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

Accessory storage areas, mechanical equipment room	300 gross
Assembly without fixed seats	
Concentrated (chairs only--not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Business areas	150 gross
Exercise rooms	50 gross
Industrial areas	100 gross
Kitchens, commercial	200 gross
Locker rooms	50 gross
Mercantile	60 gross
Storage, stock, shipping areas	300 gross

1004.9 Posting of Occupant Load
Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or space, for the intended configurations. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or the owner's authorized agent.

Section 1005 Means of Egress Sizing

1005.3.2 Other Egress Components
The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch (5.1 mm) per occupant.

1005.4 Continuity
The minimum width or required capacity of the means of egress required from any story of a building shall not be reduced along the path of egress travel until arrival at the public way.

1005.5 Distribution of Minimum Width and Required Capacity
Where more than one exit, or access to more than one exit, is required, the means of egress shall be configured such that the loss of any one exit, or access to one exit, shall not reduce the available capacity or width to less than 50 percent of the required capacity or width.

1005.7.1 Doors
Doors, when fully opened, shall not reduce the required width by more than 7 inches (178 mm). Doors in any position shall not reduce the required width by more than one-half.

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Checked CTB
Drawn CC

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Revisions:
1 PERMIT SET 10/15/21

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CODE ANALYSIS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201CA001

CA0.01

Code Analysis

Section 1006 Number of Exits and Exit Access Doorways

1006.2.1 Egress Based on Occupant Load and Common Psth of Egress Travel Distance
Two exits or exit access doorways from any space shall be provided where the design occupant load or the common path of egress travel distance exceeds the values listed in Table 1006.2.1. The cumulative occupant load from adjacent rooms, areas or spaces shall be determined in accordance with Section 1004.2.
Exceptions:
1. The number of exits from foyers, lobbies, vestibules or similar spaces need not be based on cumulative occupant loads for areas discharging through such spaces, but the capacity of the exits from such spaces shall be based on applicable cumulative occupant loads.

Table 1006.2.1 Spaces With One Exit Or Exit Access Doorway

Occupancy: A, M
Maximum occupant load of space: 49
Maximum common path of egress travel distance: with sprinkler system: 75'

Occupancy: B
Maximum occupant load of space: 49
Maximum common path of egress travel distance: with sprinkler system: 100'

Occupancy: F
Maximum occupant load of space: 49
Maximum common path of egress travel distance: with sprinkler system: 100'

Occupancy: S
Maximum occupant load of space: 29
Maximum common path of egress travel distance: with sprinkler system: 100'

Section 1007 Exit and Exit Access Doorway Configuration

1007.1.1 Two Exits or Exit Access Doorways
Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Interlocking or scissor stairways shall be counted as one exit stairway.
Exceptions:
2. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance shall be not less than one-third of the length of the maximum overall diagonal dimension of the area served.

Section 1009 Accessible Means of Egress

1009.1 Accessible Means of Egress Required
Accessible means of egress shall comply with this section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by Section 1006.2 or 1006.3 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

Section 1010 Doors, Gates and Turnstiles

1010.1.1 Size of Doors
The required capacity of each door opening shall be sufficient for the occupant load thereof and shall provide a minimum clear opening width of 32 inches (813 mm). The clear opening width of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad). Where this section requires a minimum clear opening width of 32 inches (813 mm) and a door opening includes two door leaves without a mullion, one leaf shall provide a minimum clear opening width of 32 inches (813 mm). In Group I-2, doors serving as means of egress doors where used for the movement of beds shall provide a minimum clear opening width of 411/2 inches (1054 mm). The maximum width of a swinging door leaf shall be 48 inches (1219 mm) nominal. The minimum clear opening height of doors shall be not less than 80 inches (2032 mm).
Exceptions:
10. Doors to walk-in freezers and coolers less than 1,000 square feet (93 m2) in area shall have a maximum width of 60 inches (1524 mm) nominal.
12. The minimum clear opening width shall not apply to the doors for nonaccessible toilet stalls.

1010.1.2 Door Swing
Egress doors shall be of the pivoted or side-hinged swinging type.
Exceptions:
1. Private garages, office areas, factory and storage areas with an occupant load of 10 or less.
9. In other than Group H occupancies, manually operated horizontal sliding doors are permitted in a means of egress from spaces with an occupant load of 10 or less.

1010.1.2.1 Direction of Swing
Pivot or side-hinged swinging doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more persons or a Group H occupancy.

1010.1.10 Panic and Fire Exit Hardware
Swinging doors serving a Group H occupancy and swinging doors serving rooms or spaces with an occupant load of 50 or more in a Group A or E occupancy shall not be provided with a latch or lock other than panic hardware or fire exit hardware.

Section 1016 Exit Access

1016.2 Egress Through Intervening Spaces
Egress through intervening spaces shall comply with this section.
2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.
Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.

Section 1017 Exit Access Travel Distance

Table 1017.2 Exit Access Travel Distance

Occupancy: A, M, S-1
With Sprinkler System (feet): 250

Occupancy: B
With Sprinkler System (feet): 300

Occupancy: F-2, S-2
With Sprinkler System (feet): 400

1017.3 Measurement
Exit access travel distance shall be measured from the most remote point of each room, area or space along the natural and unobstructed path of horizontal and vertical egress travel to the entrance to an exit. (Note: "exit" includes exit passageways per Chapter 2)

Section 1020 Corridors

Table 1020.1 Corridor Fire-Resistance Rating

Occupancy: A, B, F, M, S
Occupant load served by corridor: Greater than 30
Required Fire-Resistance Rating (hours) With sprinkler system: **0**

1020.2 Width and Capacity
The required capacity of corridors shall be determined as specified in Section 1005.1, but the minimum width shall be not less than that specified in Table 1020.2.

Table 1020.2 Minimum Corridor Width

Any facility not listed in this table	44
With an occupant load of less than 50	36

Section 1024 Exit Passageways

1024.1 Exit Passageways
Exit passageways serving as an exit component in a means of egress system shall comply with the requirements of this section. An exit passageway shall not be used for any purpose other than as a means of egress and a circulation path.

1024.2 Width and Capacity
The required capacity of exit passageways shall be determined as specified in Section 1005.1 but the minimum width shall be not less than 44 inches (1118 mm), except that exit passageways serving an occupant load of less than 50 shall be not less than 36 inches (914 mm) in width. The minimum width or required capacity of exit passageways shall be unobstructed.
Exception: Encroachments complying with Section 1005.7.

1024.3 Construction
Exit passageway enclosures shall have walls, floors and ceilings of not less than a 1-hour fire-resistance rating, and not less than that required for any connecting interior exit stairway or ramp. Exit passageways shall be constructed as fire barriers in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both.

1024.4 Termination
Exit passageways on the level of exit discharge shall terminate at an exit discharge. Exit passageways on other levels shall terminate at an exit.

Section 1029 Assembly

1029.2 Assembly Main Exit
A building, room or space used for assembly purposes that has an occupant load of greater than 300 and is provided with a main exit, that main exit shall be of sufficient capacity to accommodate not less than one-half of the occupant load, but such capacity shall be not less than the total required capacity of all means of egress leading to the exit. Where the building is classified as a Group A occupancy, the main exit shall front on not less than one street or an unoccupied space of not less than 10 feet (3048 mm) in width that adjoins a street or public way. In a building, room or space used for assembly purposes where there is not a well-defined main exit or where multiple main exits are provided, exits shall be permitted to be distributed around the perimeter of the building provided that the total capacity of egress is not less than 100 percent of the required capacity.

1029.3 Assembly Other Exits
In addition to having access to a main exit, each level in a building used for assembly purposes having an occupant load greater than 300 and provided with a main exit, shall be provided with additional means of egress that shall provide an egress capacity for not less than one-half of the total occupant load served by that level and shall comply with Section 1007.1. In a building used for assembly purposes where there is not a well-defined main exit or where multiple main exits are provided, exits for each level shall be permitted to be distributed around the perimeter of the building, provided that the total width of egress is not less than 100 percent of the required width.

1029.9 Assembly Aisles Are Required
Every occupied portion of any building, room or space used for assembly purposes that contains seats, tables, displays, similar fixtures or equipment shall be provided with aisles leading to exits or exit access doorways in accordance with this section.

1029.9.1 Minimum Aisle Width
The minimum clear width for aisles shall comply with one of the following:

4. Forty-two inches (1067 mm) for level or ramped aisles having seating on both sides.
Exceptions:
1. Thirty-six inches (914 mm) where the aisle serves less than 50 seats.
2. Thirty inches (762 mm) where the aisle serves less than 15 seats and does not serve as part of an accessible route.

5. Thirty-six inches (914 mm) for level or ramped aisles having seating on only one side.
Exception: Thirty inches (762 mm) where the aisle serves fewer than 15 seats and does not serve as part of an accessible route.

1029.9.3 Converging Aisles
Where aisles converge to form a single path of egress travel, the required capacity of that path shall be not less than the combined required capacity of the converging aisles.

1029.9.4 Uniform Width and Capacity
Those portions of aisles, where egress is possible in either of two directions, shall be uniform in minimum width or required capacity.

1029.9.5 Dead-End Aisles
Each end of an aisle shall be continuous to a cross aisle, foyer, doorway, vomitory, concourse or stairway in accordance with Section 1029.9.7 having access to an exit.
Exceptions:
1. Dead-end aisles shall be not greater than 20 feet (6096 mm) in length.

1029.9.6 Aisle Measurement
The clear width for aisles shall be measured to walls, edges of seating and tread edges except for permitted projections.
Exception: The clear width of aisles adjacent to seating at tables shall be permitted to be measured in accordance with Section 1029.13.1.

1029.13.1 Seating at Tables
Where seating is located at a table or counter and is adjacent to an aisle or aisle accessway, the measurement of required clear width of the aisle or aisle accessway shall be made to a line 19 inches (483 mm) away from and parallel to the edge of the table or counter. The 19-inch (483 mm) distance shall be measured perpendicular to the side of the table or counter. In the case of other side boundaries for aisles or aisle accessways, the clear width shall be measured to walls, edges of seating and tread edges.
Exception: Where tables or counters are served by fixed seats, the width of the aisle or aisle accessway shall be measured from the back of the seat.

1029.13.1.1 Aisle Accessway Capacity and Width for Seating at Tables
Aisle accessways serving arrangements of seating at tables or counters shall comply with the capacity requirements of Section 1005.1 but shall not have less than 12 inches (305 mm) of width plus 1/2 inch (12.7 mm) of width for each additional 1 foot (305 mm), or fraction thereof, beyond 12 feet (3658 mm) of aisle accessway length measured from the center of the seat farthest from an aisle.
Exception: Portions of an aisle accessway having a length not exceeding 6 feet (1829 mm) and used by a total of not more than four persons.

1029.13.1.2 Seating at Table Aisle Accessway Length
The length of travel along the aisle accessway shall not exceed 30 feet (9144 mm) from any seat to the point where a person has a choice of two or more paths of egress travel to separate exits.

Chapter 11 Accessibility

Section 1103 Scoping Requirements

1103.2.2 Employee Work Areas
Spaces and elements within employee work areas shall only be required to comply with Sections 907.5.2.3.1, 1009 and 1104.3.1 and shall be designed and constructed so that individuals with disabilities can approach, enter and exit the work area. Work areas, or portions of work areas, other than raised courtroom stations in accordance with Section 1108.4.1.4, that are less than 300 square feet (30 m2) in area and located 7 inches (178 mm) or more above or below the ground or finished floor where the change in elevation is essential to the function of the space shall be exempt from all requirements.

1103.2.9 Equipment Spaces
Spaces frequented only by service personnel for maintenance, repair or occasional monitoring of equipment are not required to comply with this chapter.

1103.2.14 Walk-In Coolers and Freezers
Walk-in cooler and freezer equipment accessed only from employee work areas is not required to comply with this chapter.

Section 1104 Accessible Route

1104.3 Connected Spaces
Where a building or portion of a building is required to be accessible, at least one accessible route shall be provided to each portion of the building, to accessible building entrances connecting accessible pedestrian walkways and to the public way.

1104.3.1 Employee Work Areas
Common use circulation paths within employee work areas shall be accessible routes.
Exceptions:
1. Common use circulation paths, located within employee work areas that are less than 1,000 square feet (93 m2) in size and defined by permanently installed partitions, counters, casework or furnishings, shall not be required to be accessible routes.
2. Common use circulation paths, located within employee work areas, that are an integral component of equipment, shall not be required to be accessible routes.

1104.5 Location
Accessible routes shall coincide with or be located in the same area as a general circulation path. Where the circulation path is interior, the accessible route shall be interior. Where only one accessible route is provided, the accessible route shall not pass through kitchens, storage rooms, restrooms, closets or similar spaces.

Section 1105 Accessible Entrances
1105.1 Public Entrances
In addition to accessible entrances required by Sections 1105.1.1 through 1105.1.7, at least 60 percent of all public entrances shall be accessible.
Exceptions:
1. An accessible entrance is not required to areas not required to be accessible.
2. Loading and service entrances that are not the only entrance to a tenant space.

Section 1108 Special Occupancies

1108.2.9 Dining and Drinking Areas
In dining and drinking areas, all interior and exterior floor areas shall be accessible and be on an accessible route.
Exceptions:
4. Employee-only work areas shall comply with Sections 1103.2.2 and 1104.3.1.

1108.2.9.1 Dining Surfaces
Where dining surfaces for the consumption of food or drink are provided, at least 5 percent, but not less than one, of the dining surfaces for the seating and standing spaces shall be accessible and be distributed throughout the facility and located on a level accessed by an accessible route.

Section 1109 Other Features and Facilities

1109.2 Toilet and Bathing Facilities
Each toilet room and bathing room shall be accessible. Where a floor level is not required to be connected by an accessible route, the only toilet rooms or bathing rooms provided within the facility shall not be located on the inaccessible floor. Except as provided for in Sections 1109.2.2 and 1109.2.3, at least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing room shall be accessible.

1109.2.1 Family or Assisted-Use Toilet and Bathing Rooms
In assembly and mercantile occupancies, an accessible family or assisted-use toilet room shall be provided where an aggregate of six or more male and female water closets is required. In buildings of mixed occupancy, only those water closets required for the assembly or mercantile occupancy shall be used to determine the family or assisted-use toilet room requirement. In recreational facilities where separate-sex bathing rooms are provided, an accessible family or assisted-use bathing room shall be provided. Fixtures located within family or assisted-use toilet and bathing rooms shall be included in determining the number of fixtures provided in an occupancy

1109.2.1.2 Family or Assisted-Use Toilet Rooms
Family or assisted-use toilet rooms shall include only one water closet and only one lavatory. A family or assisted-use bathing room in accordance with Section 1109.2.1.3 shall be considered to be a family or assisted-use toilet room.

1109.2.1.6 Clear Floor Space
Where doors swing into a family or assisted-use toilet or bathing room, a clear floor space not less than 30 inches by 48 inches (762 mm by 1219 mm) shall be provided, within the room, beyond the area of the door swing.

1109.4 Kitchens and Kitchenettes
Where kitchens and kitchenettes are provided in accessible spaces or rooms, they shall be accessible.

1109.5.1 Minimum Number (Drinking Fountains)
Not fewer than two drinking fountains shall be provided. One drinking fountain shall comply with the requirements for people who use a wheelchair and one drinking fountain shall comply with the requirements for standing persons.
Exceptions:
1. A single drinking fountain with two separate spouts that complies with the requirements for people who use a wheelchair and standing persons shall be permitted to be substituted for two separate drinking fountains.

1109.9 Storage
Where fixed or built-in storage elements such as cabinets, coat hooks, shelves, medicine cabinets, lockers, closets and drawers are provided in required accessible spaces, at least 5 percent, but not less than one of each type shall be accessible.

1109.11 Seating at Tables, Counters and Work Surfaces
Where seating or standing space at fixed or built-in tables, counters or work surfaces is provided in accessible spaces, at least 5 percent of the seating and standing spaces, but not less than one, shall be accessible.

2020 Mechanical Code of NYS

(Note: See Mechanical drawings for information regarding this code)

2020 Plumbing Code of NYS

Chapter 4 Fixtures, Faucets and Fixture Fittings

Section 403 Minimum Plumbing Facilities

[NY] Table 403.1minimum Number Of Required Plumbing Fixtures

Occupant Load	Water Closets (M)	Water Closets (F)	Lav. (M)	Lav. (F)	Drinking Fountains
Assembly - Nightclubs, bars, taverns, dance halls and buildings for similar purposes					
638	1 per 40 Req.: 7.98	1 per 40 Req.: 7.98	1 per 75 Req.: 4.25	1 per 75 Req.: 4.25	1 per 500 Req.: 1.28
Assembly - Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gyms					
360	1 per 125 Req.: 1.44	1 per 65 Req.: 2.77	1 per 200 Req.: 0.90	1 per 200 Req.: 0.90	1 per 500 Req.: 0.72
Business					
36	1 per 25 (1st 50) 1 per 50 (remain.) Req.: 0.72	1 per 25 (1st 50) 1 per 50 (remain.) Req.: 0.72	1 per 40 (1st 80) 1 per 80 (remain.) Req.: 0.45	1 per 40 (1st 80) 1 per 80 (remain.) Req.: 0.45	1 per 100 Req.: 0.36
Factory and industrial					
66	1 per 100 Req.: 0.33	1 per 100 Req.: 0.33	1 per 100 Req.: 0.33	1 per 100 Req.: 0.33	1 per 400 Req.: 0.17
Mercantile					
16	1 per 500 Req.: 0.02	1 per 500 Req.: 0.02	1 per 750 Req.: 0.01	1 per 750 Req.: 0.01	1 per 1,000 Req.: 0.02
Storage					
11	1 per 100 Req.: 0.06	1 per 100 Req.: 0.06	1 per 100 Req.: 0.06	1 per 100 Req.: 0.06	1 per 1,000 Req.: 0.01
Total required:	11 (10.55)	12 (11.88)	6 (6.00)	7 (6.00)	3 (2.56)
Total Provided:	13 (8 Sep. 5 Single)	13 (8 Sep. 5 Single)	13	13	2 (See 410.4)

[NY] 403.2 Separate Facilities
Where plumbing fixtures are required, separate facilities shall be provided for each sex.
Exceptions:
5. Single-user toilet and bathing rooms provided in accordance with Section 403.1.2 shall be designated as gender neutral.

403.3 Employee and Public Toilet Facilities
For structures and tenant spaces intended for public utilization, customers, patrons and visitors shall be provided with public toilet facilities. Employees associated with structures and tenant spaces shall be provided with toilet facilities. The number of plumbing fixtures located within the required toilet facilities shall be provided in accordance with Section 403 for all users. Employee toilet facilities shall be either separate or combined employee and public toilet facilities.

403.3.1 Access
The route to the public toilet facilities required by Section 403.3 shall not pass through kitchens, storage rooms or closets. Access to the required facilities shall be from within the building or from the exterior of the building. Routes shall comply with the accessibility requirements of the Building Code of New York State. The public shall have access to the required toilet facilities at all times that the building is occupied.

403.3.3 Location of Toilet Facilities in Occupancies Other Than Malls
In occupancies other than covered and open mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m).

Section 410 Drinking Fountains

410.4 Substitution
Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other occupancies where drinking fountains are required, water dispensers shall be permitted to be substituted for not more than 50 percent of the required number of drinking fountains.
(Note: Drinking water in a container free of charge to be provided in restaurant areas)

Section 411 Emergency Showers and Eyewash Stations

411.1 Approval
Emergency showers and eyewash stations shall conform to ISEA Z358.1.

Section 420 Manual Food and Beverage Dispensing Equipment

420.1 Approval
Manual food and beverage dispensing equipment shall conform to the requirements of NSF 18.

2020 Energy Conservation Code of NYS

Chapter 3 [CE] General Requirements

[NY] Table C301.1 New York State Climate Zones By County: **Zone 5A** (Orange)

Chapter 4 [CE] Commercial Energy Efficiency

[NY] C401.2 Application
Commercial buildings shall comply with one of the following:
2. Prescriptive Compliance Path: The requirements of Sections C402 through C405 and C408. In addition, commercial buildings shall comply with Section C406 and tenant spaces shall comply with Section C406.1.1.

Section C402 Building Envelope Requirements

[NY] Table C402.1.3 Opaque Thermal Envelope Insulation Component Minimum Requirements, R-Value Method
Climate Zone: 5 And Marine 4 (All other)
Walls, above grade: **R-13 + R-7.5ci** (Metal framed)
Floors: **R-30** (Joist/framing)

C402.2.1.1 Skylight Curbs
Skylight curbs shall be insulated to the level of roofs with insulation entirely above the deck or R-5, whichever is less.

[NY] Table C402.4 Building Envelope Fenestration Maximum U-Factor And SHGC Requirements
Climate Zone: 5
Vertical fenestration U-factor
Fixed fenestration: 0.38
Operable fenestration: 0.45
Entrance doors: 0.77
Vertical fenestration SHGC
PF < 0.2: 0.38
0.2 ≤ PF < 0.5: 0.46
PF ≥ 0.5: 0.61
Skylights U-factor: 0.50
Skylights SHGC: 0.40

C402.4.1 Maximum Area
The vertical fenestration area, not including opaque doors and opaque spandrel panels, shall be not greater than 30 percent of the gross above-grade wall area. The skylight area shall be not greater than 3 percent of the gross roof area.

C402.4.1.2 Increased Skylight Area With Daylight Responsive Controls
The skylight area shall be not more than 6 percent of the roof area provided that daylight responsive controls complying with Section C405.2.3.1 are installed in toplit zones.

C402.4.3.1 Increased Skylight SHGC
In Climate Zones 1 through 6, skylights shall be permitted a maximum SHGC of 0.60 where located above daylight zones provided with daylight responsive controls.

C402.4.3.2 Increased Skylight U- Factor
Where skylights are installed above daylight zones provided with daylight responsive controls, a maximum U-factor of 0.9 shall be permitted in Climate Zones 1 through 3 and a maximum U-factor of 0.75 shall be permitted in Climate Zones 4 through 8.

2010 ADA Standards

Chapter 2 Scoping Requirements

203 General Exceptions

203.4 Limited Access Spaces
Spaces accessed only by ladders, catwalks, crawl spaces, or very narrow passageways shall not be required to comply with these requirements or to be on an accessible route.

203.5 Machinery Spaces
Spaces frequented only by service personnel for maintenance, repair, or occasional monitoring of equipment shall not be required to comply with these requirements or to be on an accessible route. Machinery spaces include, but are not limited to, elevator pits or elevator penthouses; mechanical, electrical or communications equipment rooms; piping or equipment catwalks; water or sewage treatment pump rooms and stations; electric substations and transformer vaults; and highway and tunnel utility facilities.

203.9 Employee Work Areas
Spaces and elements within employee work areas shall only be required to comply with 206.2.8, 207.1, and 215.3 and shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the employee work area. Employee work areas, or portions of employee work areas, other than raised courtroom stations, that are less than 300 square feet (28 m2) and elevated 7 inches (180 mm) or more above the finish floor or ground where the elevation is essential to the function of the space shall not be required to comply with these requirements or to be on an accessible route.

206 Accessible Routes

206.2.5 Restaurants and Cafeterias
In restaurants and cafeterias, an accessible route shall be provided to all dining areas, including raised or sunken dining areas, and outdoor dining areas.

206.2.8 Employee Work Areas
Common use circulation paths within employee work areas shall comply with 402.
EXCEPTIONS:
1. Common use circulation paths located within employee work areas that are less than 1000 square feet (93 m2) and defined by permanently installed partitions, counters, casework, or furnishings shall not be required to comply with 402.
2. Common use circulation paths located within employee work areas that are an integral component of work area equipment shall not be required to comply with 402.
3. Common use circulation paths located within exterior employee work areas that are fully exposed to the weather shall not be required to comply with 402.

226 Dining Surfaces and Work Surfaces

226.1 General
Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. In addition, where work surfaces are provided for use by other than employees, at least 5 percent shall comply with 902.
EXCEPTIONS:
1. Sales counters and service counters shall not be required to comply with 902.

226.2 Dispersion
Dining surfaces and work surfaces required to comply with 902 shall be dispersed throughout the space or facility containing dining surfaces and work surfaces.

Chapter 6 Plumbing Elements and Facilities

603 Toilet and Bathing Rooms

603.2.1 Turning Space
Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap
Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing
Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.
EXCEPTIONS:
2. Where the toilet room or bathing room is for individual use and a clear floor space complying with 305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
The REGISTERED ARCHITECT License No. 32407

LAN ASSOCIATES L.L.P.
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

Revisions:

1 PERMIT SET 10/15/21

CODE ANALYSIS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201CA001

CA0.02

Building Information

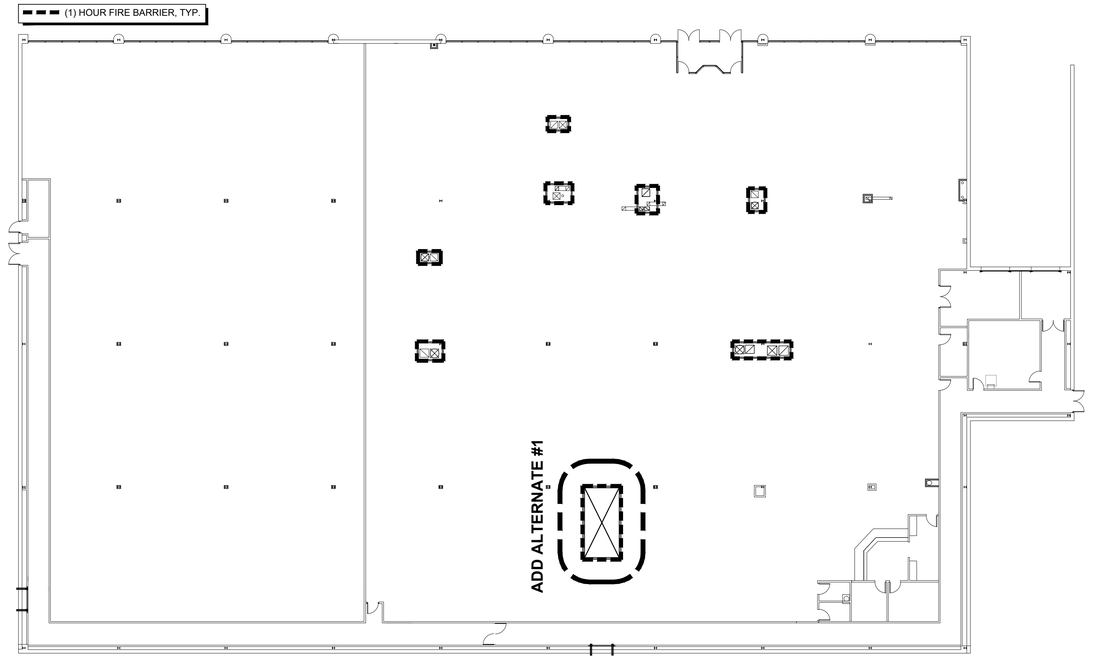
(2) STORY MIXED-USE BUILDING (EXISTING)
TYPE OF CONSTRUCTION: IIB (SPRINKLERED)

BUILDING HEIGHT: 40'-0⅜"

BUILDING AREA:
47,220 SF FIRST FLOOR (EXISTING)
47,275 SF SECOND FLOOR (EXISTING)

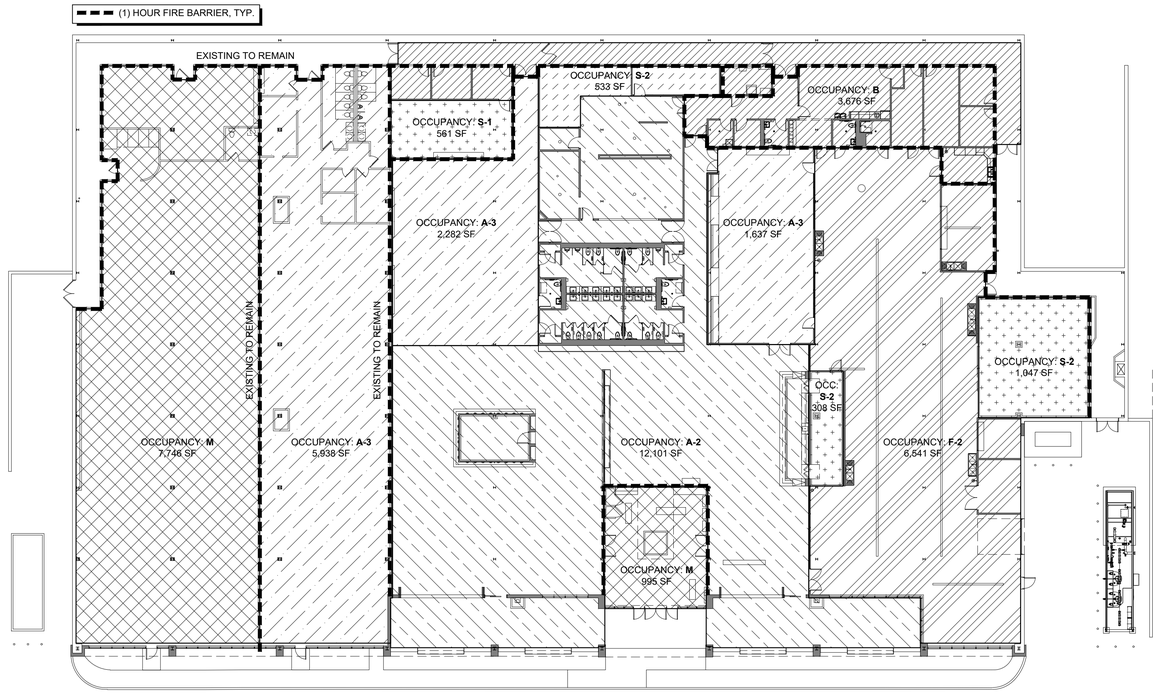
FIRST FLOOR RENOVATION AREA: 32,086 SF
SECOND FLOOR RENOVATION AREA: 238 SF

TOTAL EXISTING BUILDING AREA: 94,495 SF
TOTAL RENOVATION AREA: 32,324 SF (34% OF FLOOR AREA)



1 CA0.03 Second Floor Code Analysis Plan
1" = 20'-0"

PROJECT NORTH



2 CA0.03 First Floor Code Analysis Plan
1" = 20'-0"

PROJECT NORTH

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:
1 PERMIT SET 10/15/21

LAN ASSOCIATES LLP
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

CODE ANALYSIS PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201CA001

CA0.03

NOTE: FURNITURE SHOWN FOR PLANNING PURPOSES ONLY. FURNITURE PACKAGE TO BE PROVIDED AND INSTALLED BY OWNER. OWNER TO ENSURE MOVABLE FURNITURE LAYOUT MEETS EGRESS REQUIREMENTS.

1 CA0.10 Proposed First Floor Egress Plan

3/32" = 1'-0"

PROJECT NORTH

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:

1 PERMIT SET 10/15/21

LAN ASSOCIATES LLP
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

FIRST FLOOR EGRESS PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201CA010

CA0.10

Legend

- PROPERTY LINE & CORNER
- SET 5/8" IRON ROD AT PROPERTY CORNER
- ADJOINER PROPERTY LINE
- L. XXXX, P. XXX — DEED LIBER, PAGE
- XX-X-XX — TAX PARCEL DESIGNATION (SECTION - BLOCK - LOT)
- UL — UL — XX" — EXISTING UTILITY POLE & LINE
- EXISTING CULVERT & SIZE
- EXISTING CATCH BASIN
- SIGN LOCATION
- ZONING MINIMUM SETBACK LINE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING CURBING
- PROPOSED CURBING
- PROPOSED LIGHT FIXTURE

Survey Notes:

1.) ALL BOUNDARY LINE AND EASEMENT INFORMATION SHOWN BASED UPON SURVEY ENTITLED "ALTA/ACSM LAND TITLE SURVEY, LANDS NOW OR FORMERLY OF WELLS FARGO BANK, N.A. PREPARED FOR KALTER, KAPLAN, ZEIGER AND FORMAN" AS PREPARED BY C.T. MALE ASSOCIATED, ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C. DATED APRIL 7, 2014.

2.) ALL STRIPING UPDATED BY MERCURIO-NORTON-TAROLLI-MARSHALL, ENGINEERING & LAND SURVEYING, P.C. (MNTM) BASED UPON AERIAL PHOTOGRAPHS FROM OCTOBER 7, 2020.

3.) INTERNAL ACCESS ROADS NOT OFFERED FOR DEDICATION TO THE PUBLIC.

4.) AREA OF PROPOSED NO ACCESS ZONE AS SET FORTH ON FILED MAP NUMBER 108-94.

5.) AS STATED IN NOTE 14 ON FILED MAP NUMBER 108-94:
THE OWNER OF PARCELS 1, 2, AND 3 WILL ENTER INTO A RECIPROCAL EASEMENT AND OPERATING AGREEMENT TO BE FILED IN THE ORANGE COUNTY CLERK'S OFFICE WHEREBY EACH GRANTS AND CONVEYS TO THE OTHER A PERPETUAL NON-EXCLUSIVE EASEMENT AND RIGHT OF USE APPURTENANT TO AND FOR THE BENEFIT OF THE OTHER'S PARCEL, TO AND FROM ADJACENT PUBLIC AND PRIVATE ROADS IN, TO, OVER, UNDER AND ACROSS THAT PORTION OF THE COMMON AREAS LOCATED ON THE SUCH PARTY'S PARCEL FOR THE PURPOSE OF PEDESTRIAN AND VEHICULAR INGRESS, EGRESS, PASSAGE, DELIVERY AND PARKING. THE EASEMENT GRANTED HEREBY SHALL BE FOR THE BENEFIT OF, BUT NOT RESTRICTED SOLELY TO, THE PERMITTED PARTY, AND EACH PARTY MAY GRANT THE BENEFIT OF SUCH EASEMENT TO ITS TENANTS OR OTHER OCCUPANTS OF ALL OR ANY PART OF ITS RESPECTIVE PARCEL FOR THE DURATION OF SUCH OCCUPANCE AND TO THE AGENTS, LICENSEES, CONCESSIONAIRES, CUSTOMERS, EMPLOYEES AND BUSINESS INVITEES OF SUCH PARTY, ITS TENANTS OR OTHER OCCUPANTS, BUT SAME IS NOT INTENDED NOR SHALL IT BE CONSTRUED AS CREATING ANY RIGHTS IN OR FOR THE BENEFIT OF THE GENERAL PUBLIC.

Parking Requirements

OVERALL USE:	PARKING USE:	PARKING REQUIREMENT:	PARKING CRITERIA:	SPACES REQUIRED:	TOTAL SPACES REQUIRED:	SPACES PROVIDED:
SHOPPING CENTER	SHOPPING CENTER	4.2 SPACES PER 1,000 SQUARE FEET OF NET FLOOR AREA	BUILDING 1: 19,005 SF BUILDING 2 - UPPER FLOOR: 134,136 SF BUILDING 2 - LOWER FLOOR: 139,331 SF MIDDLETOWN PLAZA: 110,312 SF	389.7		
	RESTAURANT	6.0 SPACES PER 1,000 SQUARE FEET OF EATING AND DRINKING ESTABLISHMENT	BUILDING 3: 19,213 SF BUILDING 2 - LOWER FLOOR: 18,000 SF	103.3		
	VACANT	0.0 SPACES PER 1,000 SQUARE FEET	BUILDING 2 - UPPER FLOOR: 112,718 SF	0.0		
					493.0	493.0

Location Map

SCALE: 1" = 2,000'

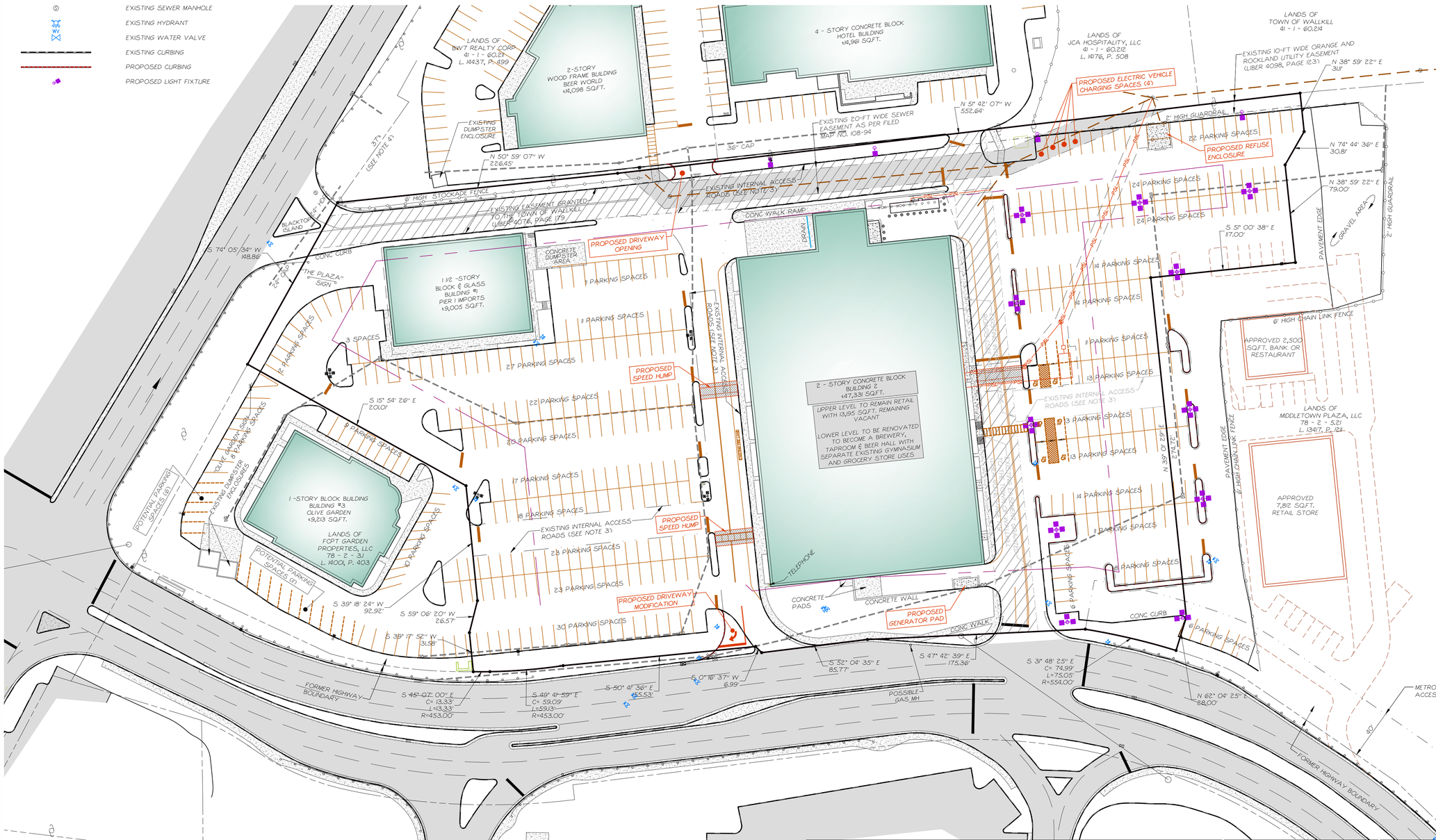
Zoning Legend: TC

USE: SHOPPING CENTER	REQUIRED	EXISTING
MINIMUM LOT AREA	60,000 S.F.	266,821 S.F.
MINIMUM LOT WIDTH	200'	575'
MINIMUM LOT DEPTH	200'	391'
MINIMUM FRONT YARD	50'	49.8'
MINIMUM SIDE YARD	50'	39.9'
MINIMUM REAR YARD (1)	50'	156.8'
MAXIMUM HEIGHT	60'	39.8'
MAXIMUM IMPERVIOUS COVERAGE	70%	89.2%

(1) REQUIRED REAR YARD IS 50 FEET OR EQUAL TO THE HEIGHT OF THE BUILDING, WHICHEVER IS GREATER

Parcel Information

TAX PARCEL:	78 - 2 - 2.1
AREA:	6.12 ACRES
RECORD OWNER:	SKYLIMIT REALTY, LLC 73 PLEASANT STREET MONTICELLO, NY 12701
DEED REFERENCE:	LIBER 12285, PAGE 313
MAP REFERENCE:	LOT 2 ON FILED MAP NUMBER 108-94, FILED ON JULY 8, 1994



GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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MAP CK:

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED VALID, TRUE COPIES."
"CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."

NO.	DATE	REVISION	BY
4	10-15-21	REVISIONS	LJM
3	8-6-21	SITE PLAN	LJM
2	3-9-21	REVISED BUILDING USAGE	LJM
1	2-22-21	REVISED BUILDING USAGE	LJM

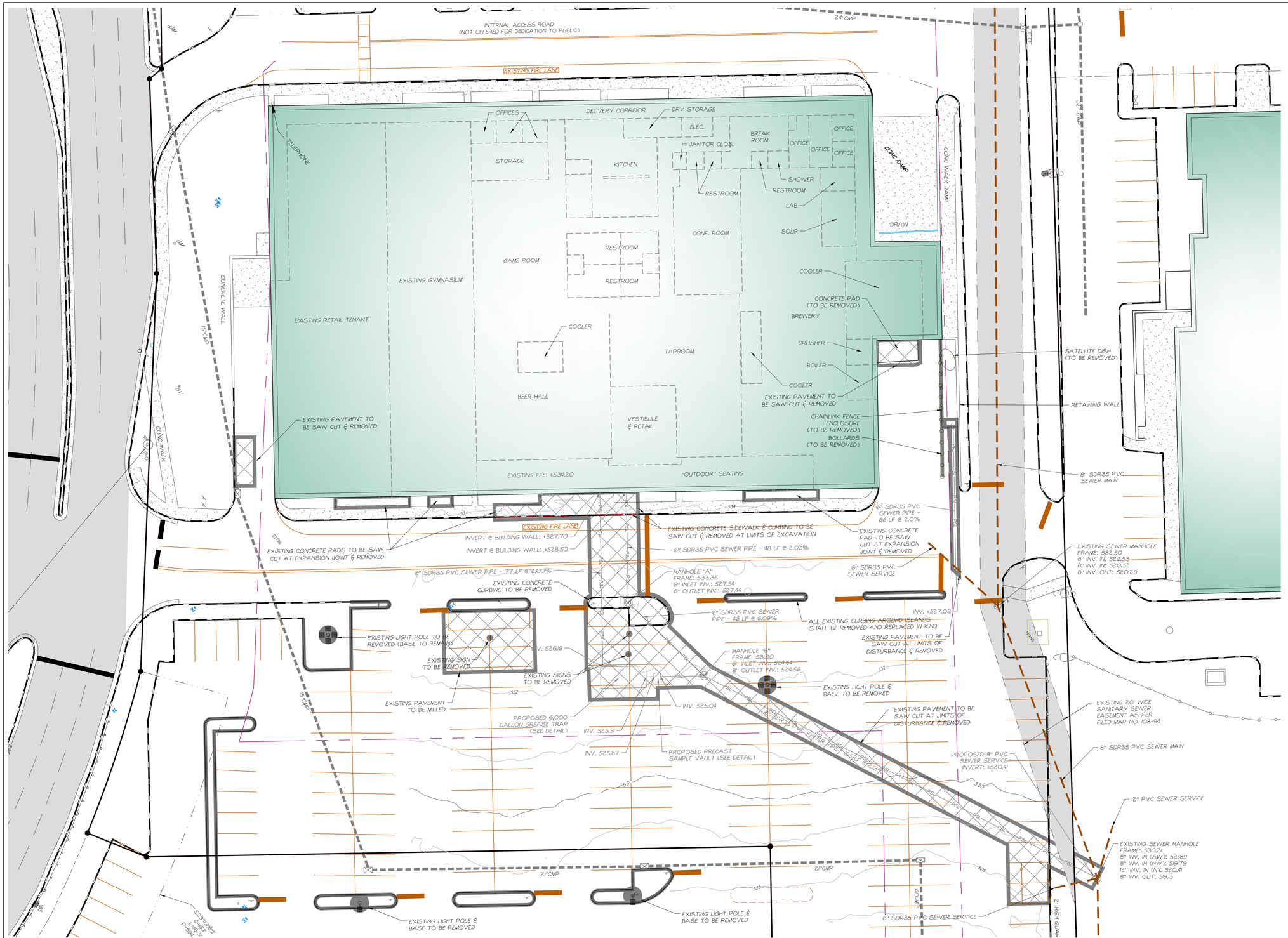
LAWRENCE MARSHALL PE #087107

Site Plan for Aspire Brewing

MNTM
Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 2.1
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: SP1.01



Legend

- PROPERTY LINE & CORNER
- SET 5/8" IRON ROD AT PROPERTY CORNER
- ADJOINER PROPERTY LINE
- L. XXXX, P. XXX — DEED LIBER, PAGE
- XX-X-XX — TAX PARCEL DESIGNATION (SECTION - BLOCK - LOT)
- UL — UL — EXISTING UTILITY POLE & LINE
- XX" — EXISTING CULVERT & SIZE
- EXISTING CATCH BASIN
- SIGN LOCATION
- ZONING MINIMUM SETBACK LINE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING CURBING
- PROPOSED CURBING

Zoning Legend: TC

USE: SHOPPING CENTER	REQUIRED	EXISTING
MINIMUM LOT AREA	60,000 S.F.	266,821 S.F.
MINIMUM LOT WIDTH	200'	575'
MINIMUM LOT DEPTH	200'	391'
MINIMUM FRONT YARD	50'	49.8'
MINIMUM SIDE YARD	50'	39.9'
MINIMUM REAR YARD (1)	50'	156.8'
MAXIMUM HEIGHT	60'	39.8'
MAXIMUM IMPERVIOUS COVERAGE	70%	89.2%

(1) REQUIRED REAR YARD IS 50 FEET OR EQUAL TO THE HEIGHT OF THE BUILDING, WHICHEVER IS GREATER

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MAP CK:

NO.	DATE	REVISION	BY
1	10-15-21	REVISIONS	LJM

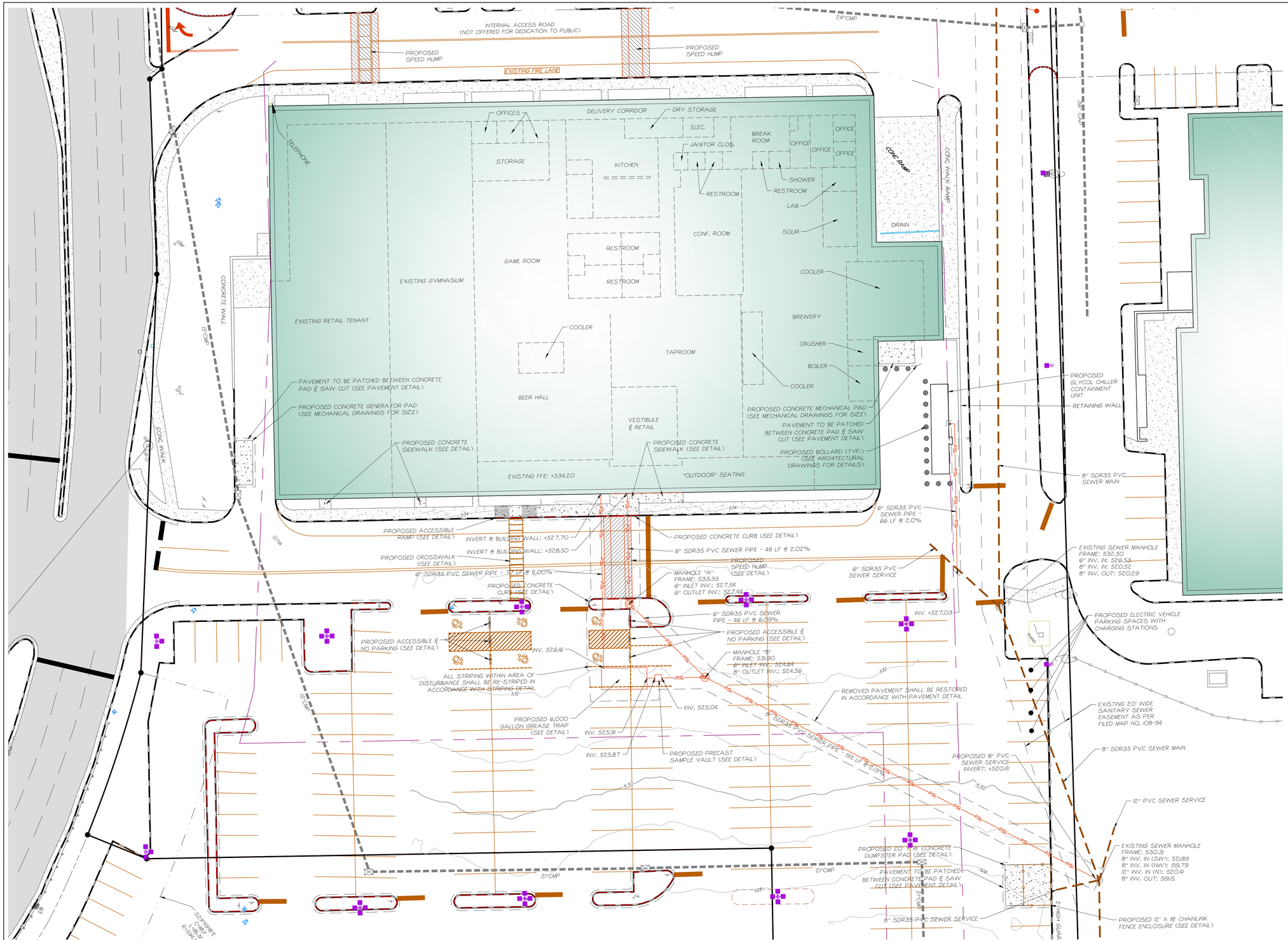
LAWRENCE MARSHALL PE #087107

Exterior Demolition Plan for Aspire Brewing

MNTM
Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 2.1
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: SP2.01



Legend

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- ADJOINER PROPERTY LINE
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Zoning Legend: TC

USE: SHOPPING CENTER	REQUIRED	EXISTING
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MAXIMUM IMPERVIOUS COVERAGE	70%	89.2%

(1) REQUIRED REAR YARD IS 50 FEET OR EQUAL TO THE HEIGHT OF THE BUILDING, WHICHEVER IS GREATER

Notes:

1). ALL EXISTING PAVEMENT TO REMAIN SHALL BE MILLED A MINIMUM OF 1.0" DOWN & RE-PAVED WITH A MINIMUM OF 1.5" OF TOP COURSE PAVEMENT.

2.) ANY AREAS WITH FATIGUE CRACKING SHALL BE SAW CUT, EXCAVATED AND RE-PAVED IN ACCORDANCE WITH STANDARD ASPHALT PAVEMENT SECTION.

3.) ALL EXISTING CURBING AROUND ISLANDS AND PORTIONS OF CURBING AROUND PERIMETER (AS SHADED) SHALL BE REMOVED AND REPLACED IN KIND.

4.) ALL PROPOSED ACCESSIBLE PARKING SPACES SHALL BE RE-PAVED SO THE PARKING SPACES AND ASSOCIATED AISLES DO NOT EXCEED 1.5% SLOPE IN ANY DIRECTION.

Dig Safely. New York
Call 811
before you dig

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MAP CK:

NO.	DATE	REVISION	BY
1	10-15-21	REVISIONS	LJM

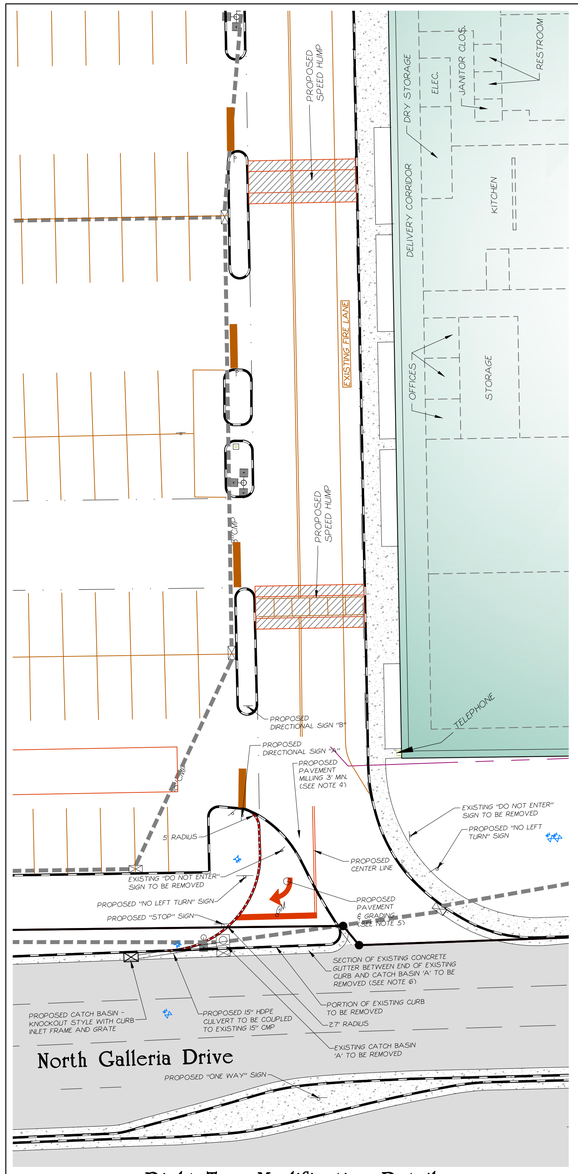
LAWRENCE MARSHALL PE #087107

Site Plan - Detail for Aspire Brewing

MNTM
Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 21
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: SP2.02

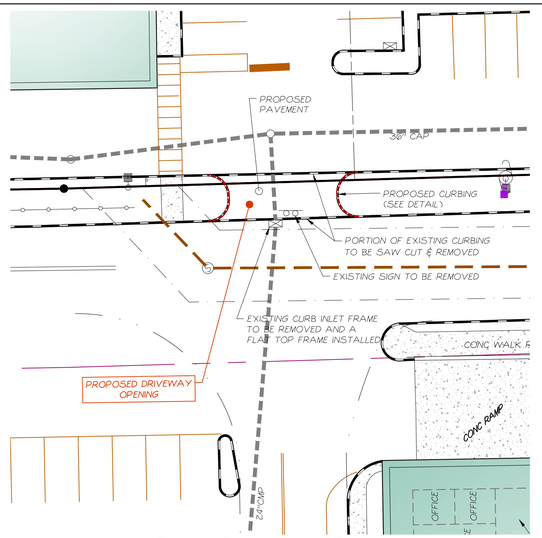


Right-Turn Modification Detail

SCALE: 1" = 20'

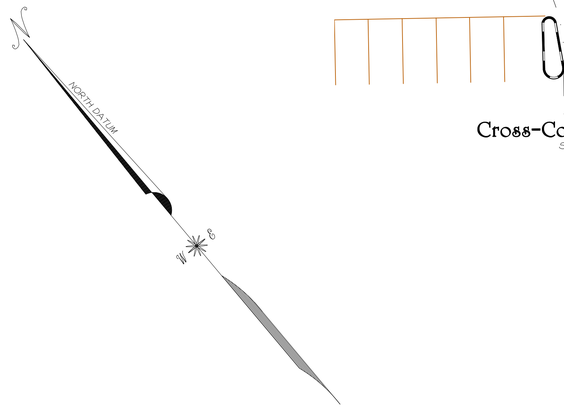
Legend

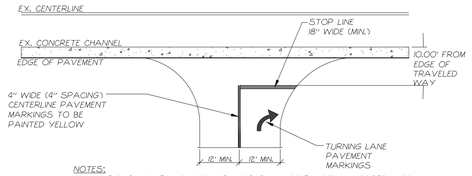
- PROPERTY LINE & CORNER
- SET 5/8" IRON ROD AT PROPERTY CORNER
- ADJOINER PROPERTY LINE
- L. XXXX, P. XXX — DEED LIBER, PAGE
- XX-X-XX — TAX PARCEL DESIGNATION (SECTION - BLOCK - LOT)
- UL — UL — XX" — EXISTING UTILITY POLE & LINE
- EXISTING CULVERT & SIZE
- EXISTING CATCH BASIN
- SIGN LOCATION
- ZONING MINIMUM SETBACK LINE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING HYDRANT
- WV — EXISTING WATER VALVE
- EXISTING CURBING
- PROPOSED CURBING



Cross-Connection Detail

SCALE: 1" = 20'





NOTES:
1) ALL SIGNS AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE NYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD.)

2) CENTERLINE PAVEMENT STRIPING SHALL BE YELLOW AND SHALL BE PAINTED A MINIMUM OF 50 FEET FROM THE STOP LINE INTO THE PROPOSED DRIVEWAY.

3) TURNING ARROWS SHALL BE PAINTED IN ACCORDANCE WITH CURRENT NYSDOT SPECIFICATIONS (685-01).

Pavement Marking Detail

Notes:

1. THE RECORD OWNER OF TAX MAP PARCEL 78-2-2.1 IS:
   SKYLIMIT REALTY, LLC
   73 PLEASANT STREET
   MONTICELLO, NY 12701

2. ALL BOUNDARY LINE AND EASEMENT INFORMATION SHOWN BASED UPON SURVEY ENTITLED "ALTA/ACSM LAND TITLE SURVEY, LANDS NOW OR FORMERLY OF WELLS FARGO BANK, N.A. PREPARED FOR KALTER, KAPLAN, ZEIGER AND FORMAN" AS PREPARED BY C.T. MALE ASSOCIATES, ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C. DATED APRIL 7, 2014.

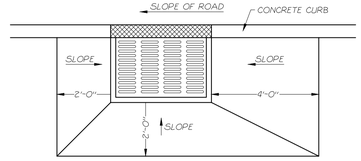
3. LANE BOUNDARIES ALONG NORTH GALLERIA DRIVE HAVE BEEN APPROXIMATED BASED UPON NYS AERIAL IMAGERY DATED 2016

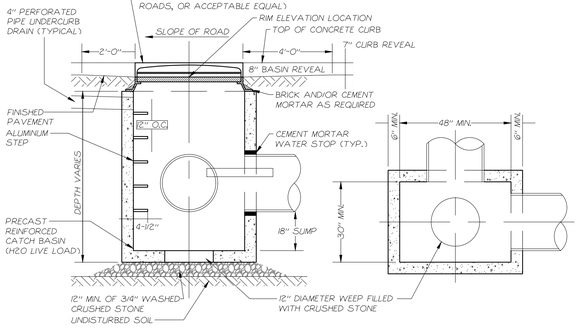
4. EXISTING PAVEMENT SHALL BE MILLED A MINIMUM OF 2" DEEP FOR A MINIMUM OF 3' FROM EXISTING CURB TO ALLOW FOR RE-PAVING.

5. GRADING OF NEW CURBING & PAVEMENT SHALL BE COMPLETED TO DIRECT STORMWATER TO CATCH BASIN 'A'.

6. EXISTING CONCRETE GUTTER SHALL BE REMOVED FROM END OF EXISTING CURB BACK TO CATCH BASIN 'A' AND REPLACED WITH PAVEMENT. PROPOSED PAVEMENT IN THIS AREA SHALL BE SLOPED TO DIRECT STORMWATER TO CATCH BASIN 'A'.

7. THE APPLICANT OR CONTRACTOR SHALL APPLY FOR A HIGHWAY WORK PERMIT FROM THE TOWN OF WALLKILL PRIOR TO BEGINNING ANY CONSTRUCTION ON THE SITE.



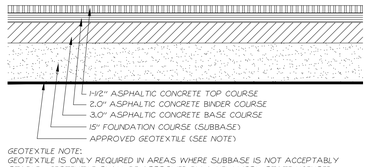


NOTES:
1) BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAXIMUM 8" LIFTS.

2) THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF CATCH BASIN.

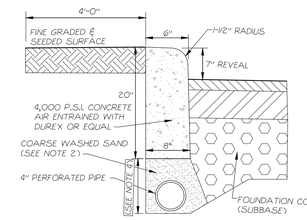
3) MINIMUM CONCRETE STRENGTH: 4,000 P.S.I.

Town of Wallkill Catch Basin Detail



GEOTEXTILE NOTE:
GEOTEXTILE IS ONLY REQUIRED IN AREAS WHERE SUBBASE IS NOT ACCEPTABLY STABLE. GEOTEXTILE SHALL BE APPROVED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.

Standard Asphalt Pavement Section



NOTES:
1.) CURB SHALL BE CAST IN PLACE. EXPANSION JOINTS OF 1/2" CELLULOSE OR SIMILAR MATERIAL SHALL BE INSTALLED WHERE REQUIRED (AT CURB BOXES, CATCH BASINS, BRIDGES, ETC.). CONTRACTION (CONTROL) JOINTS SHALL BE INSTALLED AT 20' INTERVALS.

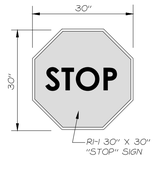
2.) IF 3/4" CRUSHED STONE IS SUBSTITUTED FOR COARSE SAND UNDERDRAIN BACKFILL, PIPE SHALL HAVE A GEO-TEXTILE FABRIC ENVELOPE.

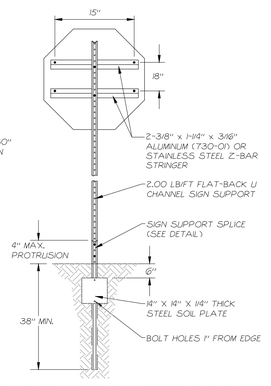
3.) ALL UNDERDRAIN PIPES SHALL BE CONNECTED TO THE NEAREST CATCH BASIN.

4.) UNDERDRAIN BACKFILL DEPTH TO BE 8", OR 10" FOR COMMERCIAL STREETS.

Typical Concrete Curb, & Underdrain Detail

(TO BE UTILIZED FOR ONLY CURBING MODIFICATION AT WESTERLY ENTRANCE TO NORTH GALLERIA DRIVE)



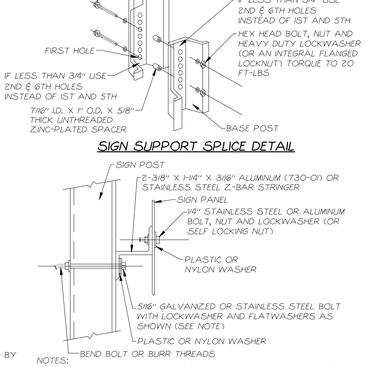


NOTES:
1) U CHANNEL SUPPORTS SHALL BE 2.00 LB/FT FLAT-BACK POSTS AS MANUFACTURED BY FRANKLIN INDUSTRIES COMPANY, OR APPROVED EQUAL.

2) U CHANNEL SUPPORTS SHALL BE SPLICED USING BASE-BOLTED SPLICE IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGULATIONS.

3) SIGN SHALL BE MOUNTED TO U CHANNEL SUPPORT IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGULATIONS.

Sign Details



SIGN SUPPORT SPLICE DETAIL

NOTES:
STAINLESS STEEL, ASTM A193, GRADE B8 BOLT, NUT AND WASHERS; GALVANIZED STEEL, ASTM A449, A354 GRADE BD OR SAE J429, GRADE 5 BOLT, NUT, AND WASHERS. LONGER BOLTS ARE NEEDED FOR THE BACK-TO-BACK U-CHANNEL POSTS; BOLT ORIENTATION MUST BE REVERSED.

PLASTIC OR NYLON WASHER REQUIRED WITH A GALVANIZED BOLT

Z-BAR CONNECTION DETAIL

Directional Sign "B" Schematic

Directional Sign "A" Schematic

Dig Safely. New York — Call 811 before you dig

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

MAP CK:

NO.	DATE	REVISION	BY
1	10-15-21	REVISIONS	LJM

LAWRENCE MARSHALL PE #087107

Entrance Modification Details for Aspire Brewing

MNTM
Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 2.1
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: SP2.03

Legend

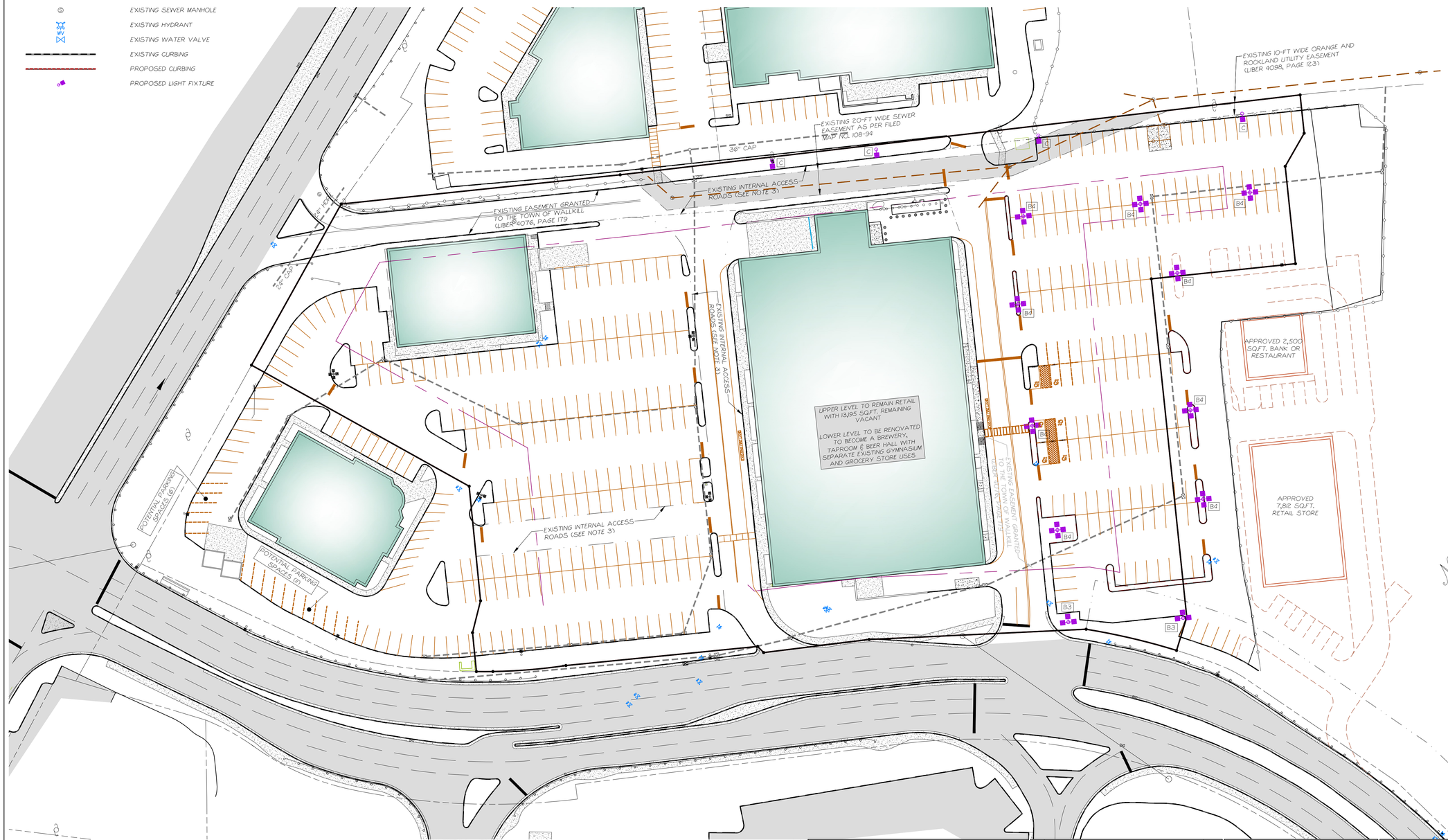
- PROPERTY LINE & CORNER
- SET 5/8" IRON ROD AT PROPERTY CORNER
- ADJOINER PROPERTY LINE
- L. XXXX, P. XXX — DEED LIBER, PAGE
- XX-X-XX — TAX PARCEL DESIGNATION (SECTION - BLOCK - LOT)
- UL — UL — XX" — EXISTING UTILITY POLE & LINE
- EXISTING CULVERT & SIZE
- EXISTING CATCH BASIN
- SIGN LOCATION
- ZONING MINIMUM SETBACK LINE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING CURBING
- PROPOSED CURBING
- PROPOSED LIGHT FIXTURE

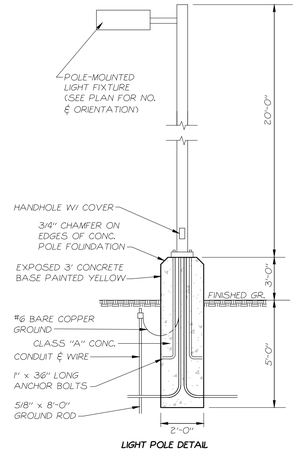
Lighting Legend

- PROPOSED POLE MOUNTED FIXTURE (SEE LIGHTING SCHEDULE)
- PROPOSED WALL MOUNTED FIXTURE (SEE LIGHTING SCHEDULE)
- (A) LIGHT KEY

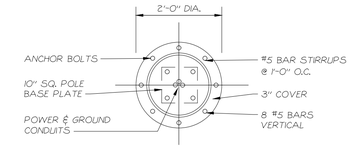
Lighting Schedule

LIGHT	QUANTITY	CATALOG NUMBER	DESCRIPTION	LAMP	MOUNTING HEIGHT	BUG RATING
B3	2	LOT4T65-D10X3@90°	TYPE IV POLE MOUNT, X3 @ 90° (20 FOOT POLE WITH 3 FOOT BASE)	LED	23'	2-0-2
B4	9	LOT4T65-D10X4@90°	TYPE IV POLE MOUNT, X4 @ 90° (20 FOOT POLE WITH 3 FOOT BASE)	LED	23'	2-0-2
C	4	LOT3T110-D10	TYPE III POLE MOUNT (20 FOOT POLE WITH 3 FOOT BASE)	LED	23'	3-0-3





LIGHT POLE DETAIL



POLE FOUNDATION SECTION

Light Pole Detail

Parcel Information

TAX PARCEL:	78 - 2 - 2.1
AREA:	6.12 ACRES
RECORD OWNER:	SKYLIMIT REALTY, LLC 73 PLEASANT STREET MONTICELLO, NY 12701
DEED REFERENCE:	LIBER 1428S, PAGE 313
MAP REFERENCE:	LOT 2 ON FILED MAP NUMBER 108-94, FILED ON JULY 8, 1994

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

Dig Safely. New York Call 811 before you dig

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED VALID, TRUE COPIES."
"CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."

MAP CK:

NO.	DATE	REVISION	BY
1	10-15-21	REVISIONS	LJM

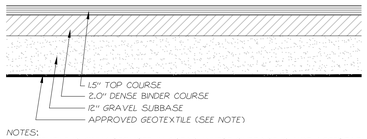
LAWRENCE MARSHALL PE #087107

Lighting Plan for Aspire Brewing

Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 2.1
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: SP2.04



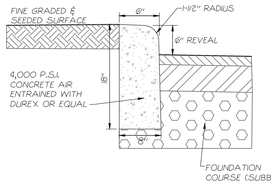
NOTES:
1.) GEOTEXTILE IS ONLY REQUIRED IN AREAS WHERE SUBBASE IS NOT ACCEPTABLY STABLE. GEOTEXTILE SHALL BE APPROVED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.

Standard Asphalt Pavement Section

NOTES:
1.) ALL EXISTING PAVEMENT TO REMAIN SHALL BE MILLED A MINIMUM OF 1.0" DOWN & RE-PAVED WITH A MINIMUM OF 1.5" OF TOP COURSE PAVEMENT.

2.) ANY AREAS WITH FATIGUE CRACKING SHALL BE SAW CUT, EXCAVATED AND RE-PAVED IN ACCORDANCE WITH STANDARD ASPHALT PAVEMENT SECTION.

Re-Surface Asphalt Pavement Section

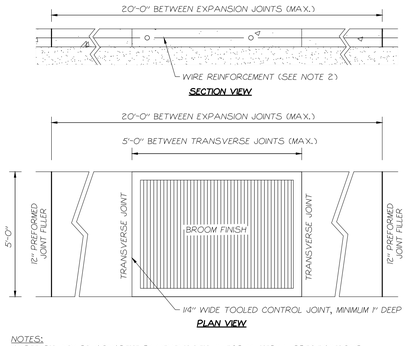


NOTES:
1.) CURB SHALL BE CAST IN PLACE. EXPANSION JOINTS OF 1/2" CELLULOSE OR SIMILAR MATERIAL SHALL BE INSTALLED WHERE REQUIRED (AT CURB BOXES, CATCH BASINS, BRIDGES, ETC.). CONTRACTION (CONTROL) JOINTS SHALL BE INSTALLED AT 20' INTERVALS.

2.) THIS DETAIL SHALL BE UTILIZED FOR INSTALLATION OF CURBING WITHIN PROJECT SITE (CURBED ISLANDS, ETC.).

Standard Curb Detail

NOT TO SCALE

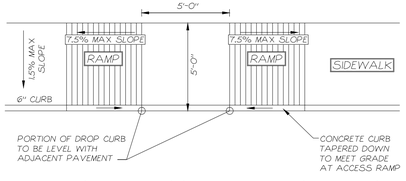


NOTES:
1.) SEE STANDARD CONCRETE PAVEMENT DETAIL FOR MATERIAL SPECIFICATIONS.

2.) SIDEWALK REINFORCEMENT SHALL CONSIST OF 6"x6" W2.9xW2.9 WELDED WIRE FABRIC.

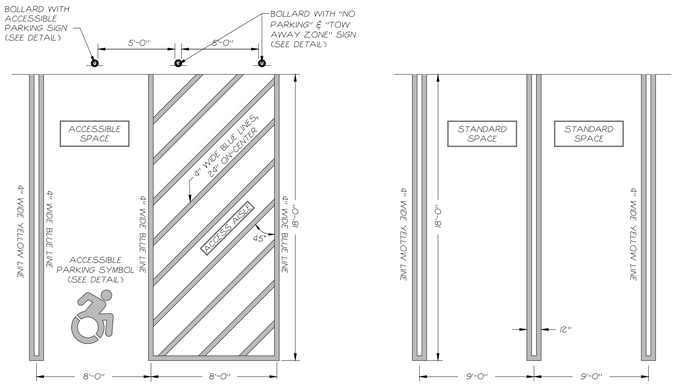
Typical Sidewalk Detail

NOT TO SCALE



Typical Accessible Drop Curb Detail

NOT TO SCALE



NOTES:
1.) ALL ACCESSIBLE RAMP AND ACCESS AISLES SHALL MEET ALL CURRENT CODES AND ADAAG REGULATIONS.

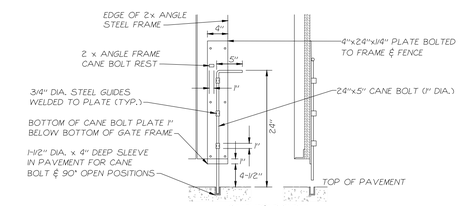
2.) PROPOSED ACCESS RAMP SHALL CONSIST OF COLORED TOOLED/SERRATE SLIP RESISTANT SURFACING AND/OR TACTILE WARNING DEVICE AS REQUIRED BY AMERICANS WITH DISABILITIES ACT ACCESSBILITY GUIDELINES AND CODE REGULATIONS.

3.) PROPOSED STRIPING TO BE PAINTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
CURBING & BOLLARDS: TWO (2) COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL, SAFETY YELLOW B55Y300
PARKING LOT STRIPING & WHEELSTOPS: TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT, YELLOWTM5494
ACCESSIBLE STRIPING & DETAIL: TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT, "H.C." BLUE

4.) ALL CURBING LESS THAN 6" HIGH SHALL BE PAINTED IN KIND WITH THE BOLLARDS.

5.) THE MAXIMUM SLOPE ACROSS THE ACCESIBLE SPACES AND ACCESS AISLES SHALL BE 2.0%.

Typical Parking Space Details



DUMPSTER ENCLOSURE NOTES:

1.) DUMPSTER ENCLOSURE SHALL BE 18 FEET X 12 FEET.

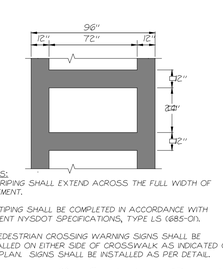
2.) THREE (3) BOLLARDS SHALL BE INSTALLED ON THE INSIDE OF THE ENCLOSURE, ACROSS THE REAR FENCE.

3.) FOOTINGS SHALL EXTEND 3'-6" MINIMUM BELOW FINISHED GRADE.

4.) FRONT GATES SHALL BE CONSTRUCTED OF METAL CHAIN LINK AND CONSIST OF 2 - 9 FOOT GATES WITH NO CENTER POST BETWEEN THE TWO GATES. CLOSING RODS SHALL BE INSTALLED ON EACH GATE AND HOLES SHALL BE DRILLED IN THE CONCRETE PAD TO RECEIVE RODS. BLACK SCREENING SLATS SHALL BE INSTALLED IN CHAINLINK PORTION OF THE GATES.

5.) CHAINLINK FENCE SHALL CONSIST OF 9 GA. BLACK VINYL COATED (2" MESH) FABRIC WITH 1 5/8" O.D., 2.27 LBS. PER FOOT (MIN.) RAILS.

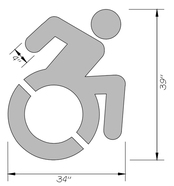
Dumpster Enclosure Details



NOTES:
1.) SIGNS TO BE MOUNTED ON POST AS SHOWN

Sign Details

NOT TO SCALE



Accessibile Parking Symbol

NOT TO SCALE

NOTES:
1.) STRIPING SHALL EXTEND ACROSS THE FULL WIDTH OF PAVEMENT.

2.) STIPING SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT NYSDOT SPECIFICATIONS, TYPE LS (685-01).

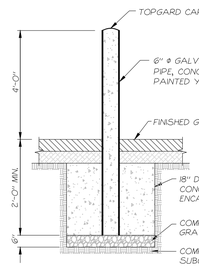
3.) PEDESTRIAN CROSSING WARNING SIGNS SHALL BE INSTALLED ON EITHER SIDE OF CROSSWALK AS INDICATED ON SITE PLAN. SIGNS SHALL BE INSTALLED AS PER DETAIL.

Crosswalk Striping Detail

NOTES:
1.) PROPOSED STRIPING TO BE PAINTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
PARKING LOT STRIPING: TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT, YELLOWTM5494

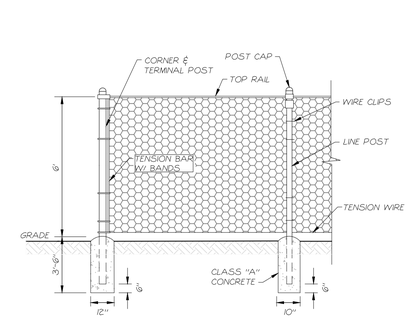
Island Striping Detail

NOT TO SCALE



Bollard Detail

NOT TO SCALE



NOTES:
1.) CHAIN LINK FENCE SPECIFICATIONS:
FABRIC: 72" 9 GA. BLACK VINYL COATED (2" MESH) CHAIN LINK FABRIC.
TOP RAIL: 1-5/8" O.D. FULL WEIGHT PIPE, 2.27 LBS PER FOOT (MIN.), TO BE JOINED WITH 1-5/8" SLEEVE.
LINE POST: 2-1/2" O.D. FULL WEIGHT PIPE, 3.65 LBS PER FOOT (MIN.), 10' O.C. MAX SPACING.
TERMINAL POST: 3" O.D. FULL WEIGHT PIPE, 5.79 LBS PER FOOT (MIN.).
TENSION WIRE: 7 GA. COIL SPRING GALVANIZED TENSION WIRE ATTACHED TO BOTTOM OF FENCE.
FITTINGS: HEAVY BRACED BAND AND CARRIAGE BOLT, PRESSED STEEL RAIL-END, PRESSED STEEL LOOP CAP, PRESSED STEEL CAP, 1/4" x 3/4" TENSION BAR, HEAVY TENSION BAND AND CARRIAGE BOLT.
TIE WIRE: 8-1/4" 12 GA. STEEL TIE WIRE AND 6-1/2" 12 GA. STEEL WIRE SPACED 18" O.C. FOR LINE POST AND 24" O.C. FOR RAILS.
GATE POST: 4" O.D. FULL WEIGHT PIPE, 9.10 LBS PER FOOT (MIN.).
GATES: 1-5/8" FULL WEIGHT PIPE FRAMEWORK, 2.27 LBS PER FOOT (MIN.). GATES BRACED AND TRUSSED AS NECESSARY.

Typical Chain Link Fence Detail

NOT TO SCALE

MAP CK:

NO.	DATE	REVISION	BY
1	10-15-21	REVISIONS	LJM

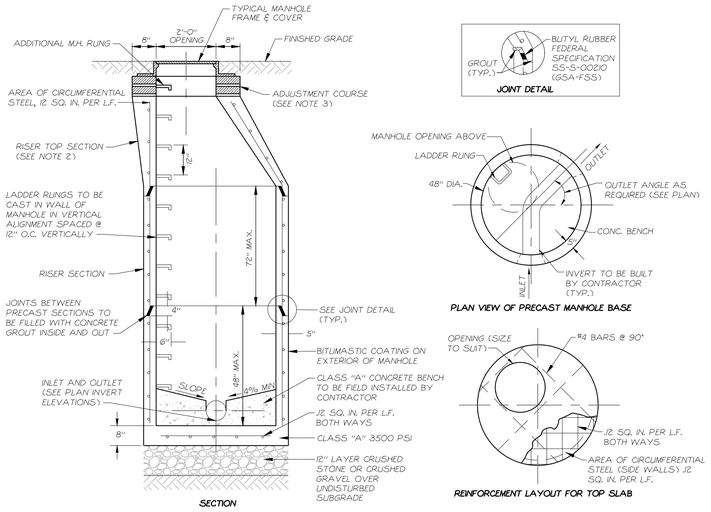
LAWRENCE MARSHALL PE #087107

Construction Details for Aspire Brewing

MNTM
Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 2.1
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: CD2.01



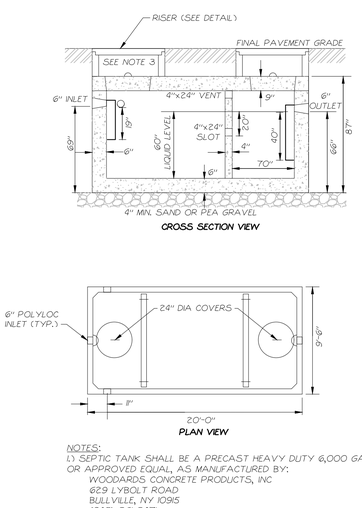
NOTES:
1.) SANITARY SEWER MANHOLES SHALL HAVE AN INTERIOR DIAMETER OF 48".

2.) FOR DEPTHS LESS THAN 84", UTILIZE A FLAT SLAB TOP SECTION. A CONE SECTION TOP SHALL BE UTILIZED WHEN FRAME TO INVERT ELEVATION EXCEEDS 84".

3.) UTILIZE CONCRETE BRICK COURSE TO ADJUST FRAME TO FINAL GRADE AND SLOPE (NOT TO EXCEED 12").

Sanitary Sewer Manhole Details

NOT TO SCALE



NOTES:
1.) SEPTIC TANK SHALL BE A PRECAST HEAVY DUTY 6,000 GALLON TANK, OR APPROVED EQUAL, AS MANUFACTURED BY:
WOODARDS CONCRETE PRODUCTS, INC
629 LYBOLT ROAD
BULLVILLE, NY 10915
(845) 361-3471

2.) ALL PIPE JOINTS (INLET & OUTLET PIPES) SHALL BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.

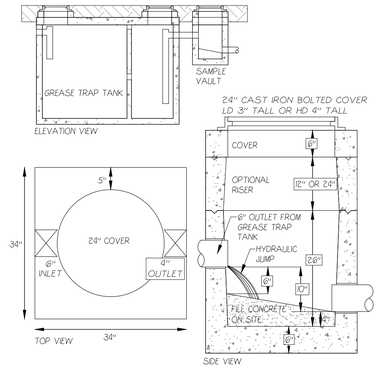
3.) INLET BAFFLE CAN BE RELOCATED TO THE SIDE.

4.) IF COVER EXCEEDS 12" A RISER MUST BE USED TO ALLOW ACCESS.

CONCRETE MINIMUM STRENGTH: 4,000 P.S.I. AT 28 DAYS
STEEL REINFORCEMENT: #4 & #5 REBAR (ASTM A615)
AIR ENTRAINMENT: 5%
CONSTRUCTION JOINT: SEALED WITH BUTYL RUBBER CEMENT
PIPE CONNECTION: POLYLOK SEAL (PATENTED)
LOAD RATING: HS20-44 + 30% IMPACT (ASTM C857)

Typical Precast Heavy Duty 6,000-Gallon Concrete Grease Trap Tank

NOT TO SCALE



NOTES:
1.) SEPTIC TANK SHALL BE A PRECAST OUTLET SAMPLE VAULT FOR COMMERCIAL GREASE TRAPS, OR APPROVED EQUAL, AS MANUFACTURED BY:
WOODARDS CONCRETE PRODUCTS, INC
629 LYBOLT ROAD
BULLVILLE, NY 10915
(845) 361-3471

2.) ALL PIPE JOINTS (INLET & OUTLET PIPES) SHALL BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.

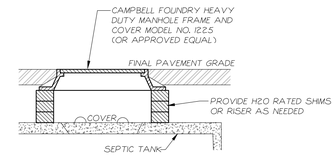
3.) OUTLET BAFFLE INSTALLED BY OTHERS.

4.) IF COVER EXCEEDS 12", A RISER MUST BE USED TO ALLOW ACCESS.

CONCRETE MIN. STRENGTH: 4,000 PSI AT 28 DAYS
REINFORCEMENT: #4 BAR / ASTM A615
AIR ENTRAINMENT: 6%
CONSTRUCTION JOINT: BUTYL RUBBER SEALANT
PIPE CONNECTION: MORTAR
WEIGHT = 2,200 LBS
LOAD RATING: HS20-44 / ASTM C857

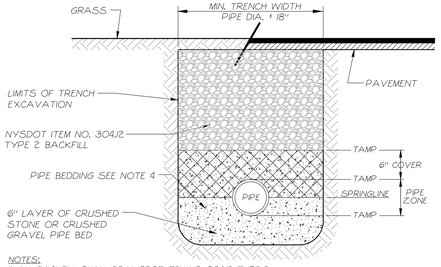
Typical Precast Sample Vault

NOT TO SCALE



Typical Riser Detail

NOT TO SCALE



NOTES:
1) ALL BACKFILL SHALL BE NYSDOT ITEM NO. 304.12 TYPE 2.

2) IN LAWN AREAS, A MINIMUM OF 6 INCHES OF TOPSOIL SHALL BE PLACED ON TOP OF THE NYSDOT ITEM 4 BACKFILL AND SHALL BE SEEDED AND MULCHED WITH SEED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS.

3) IN PAVED AREAS, THE EXISTING PAVEMENT SHALL BE SAW CUT PRIOR TO REMOVAL. REPLACEMENT OF THE PAVEMENT SHALL BE COMPLETED WITH A MINIMUM OF 4" NYSDOT ITEM 4 LEVELING COURSE, 5" ASPHALT BINDER COURSE (PLACED IN 2" LIFTS), AND 2" ASPHALT TOP COURSE. EXISTING PAVEMENT SHALL BE MILLED TO A 2" DEPTH AT LEAST 2 FEET BEYOND TRENCH WIDTH, IN ALL DIRECTIONS, PRIOR TO PLACEMENT OF FINAL TOP COURSE. TOP COURSE SHALL EXTEND THE ENTIRE WIDTH OF THE TRENCH AND MILLED SECTION OF PAVEMENT.

4. PIPE BEDDING MATERIAL SHALL BE COMPOSED OF CRUSHED STONE OR GRAVEL FREE OF SOFT NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES WITH THE FOLLOWING GRADATION REQUIREMENTS

SIEVE DESIGNATION	% PASSING
2"	100
1"	95 - 100
#8	0 - 15
NO. 40	0 - 5

Typical Trench Detail

Dig Safely. New York Call 811 before you dig

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MAP CK:

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED VALID, TRUE COPIES."
"CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."

NO.	DATE	REVISION	BY
1	10-15-21	REVISIONS	LJM

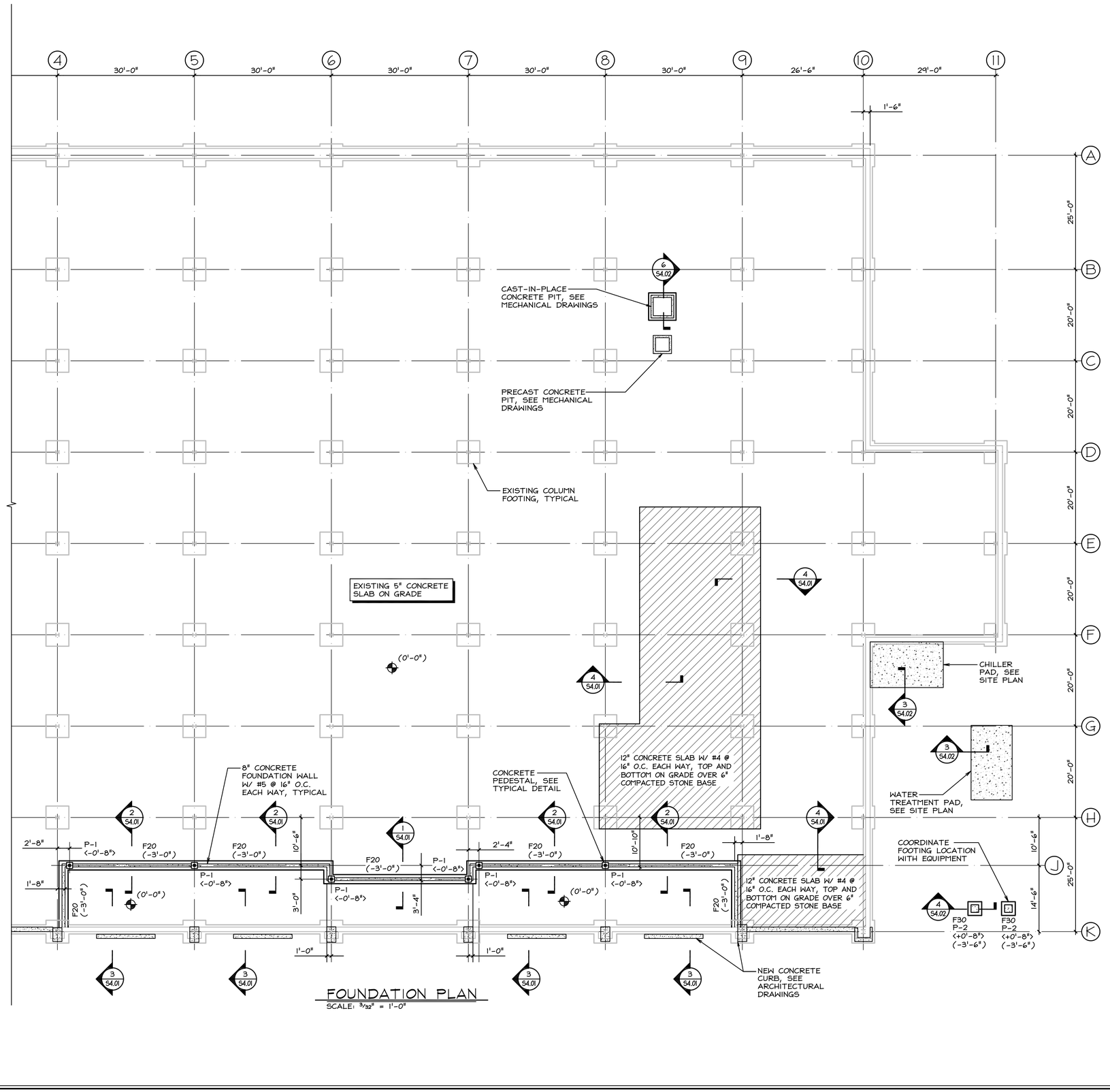
LAWRENCE MARSHALL PE #087107

Sewer Details for
Aspire Brewing

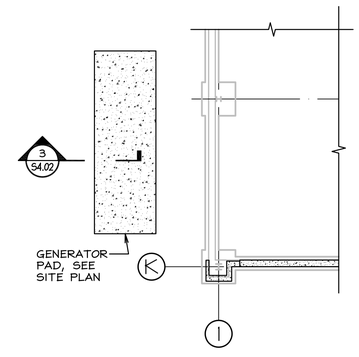
Mercurio-Norton-Tarolli-Marshall
ENGINEERING - LAND SURVEYING
PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566
P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO

THIS MAP IS INCOMPLETE AND INVALID WITHOUT ALL SHEETS IN THE PLAN SET.

TAX MAP PARCEL: 78 - 2 - 21
TOWN OF WALLKILL
COUNTY OF ORANGE
STATE OF NEW YORK
DRAFTED BY: LJM
DATE: 2020 DEC 9
PROJECT: 3988-2
SHEET: CD2.02



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



PARTIAL FOUNDATION PLAN
SCALE: 3/32" = 1'-0"

FOUNDATION NOTES

1. THE SIZE AND LOCATION OF EXISTING FOUNDATIONS IS BASED ON LIMITED SITE OBSERVATION. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS OR MEASUREMENTS AND THE INFORMATION SHOWN ON THIS DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. ALL FOOTINGS ARE DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF. BOTTOM OF FOOTING ELEVATION MAY BE LOWERED TO ACHIEVE THE MINIMUM REQUIRED BEARING CAPACITY..
3. ELEVATIONS ON PLAN ARE REFERENCED FROM TOP OF EXISTING CONCRETE FLOOR SLAB = 0'-0" AS DATUM.
4. REFER TO DRAWING S6.01 TO S6.02 FOR GENERAL NOTES AND TYPICAL DETAILS.

FOUNDATION SCHEDULE

MARK	DESCRIPTION
P-1	16"x16" CONCRETE PEDESTAL W/ (4) - #5 VERTICAL AND #3 TIES @ 12" O.C. SEE TYPICAL DETAIL.
P-2	20"x20" CONCRETE PEDESTAL W/ (8) - #5 VERTICAL AND #3 TIES @ 12" O.C. SEE TYPICAL DETAIL.
F20	2'-0" WIDE X 1'-0" DEEP CONCRETE WALL FOOTING W/ (3) #5 CONTINUOUS, SEE SECTION.
F30	3'-0"x3'-0"x1'-4" DEEP CONCRETE FOOTING W/ (4) #5 BOTTOM BARS, EACH WAY.
< >	DENOTES TOP OF PEDESTAL ELEVATION REFERENCED FROM DATUM
( )	DENOTES TOP OF FOOTING ELEVATION REFERENCED FROM DATUM
◆( )	ON PLAN INDICATES FINISHED FLOOR ELEVATION REFERENCED FROM 0'-0" AS DATUM.

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Job No.: 21074 Dwg. 1 of 8
EDWARD P. WILKOWSKI P.E.
N.Y. License No. 082493

Date	10/15/21
Checked	EW
Drawn	AJ

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:
1. PERMIT SET 10/15/21

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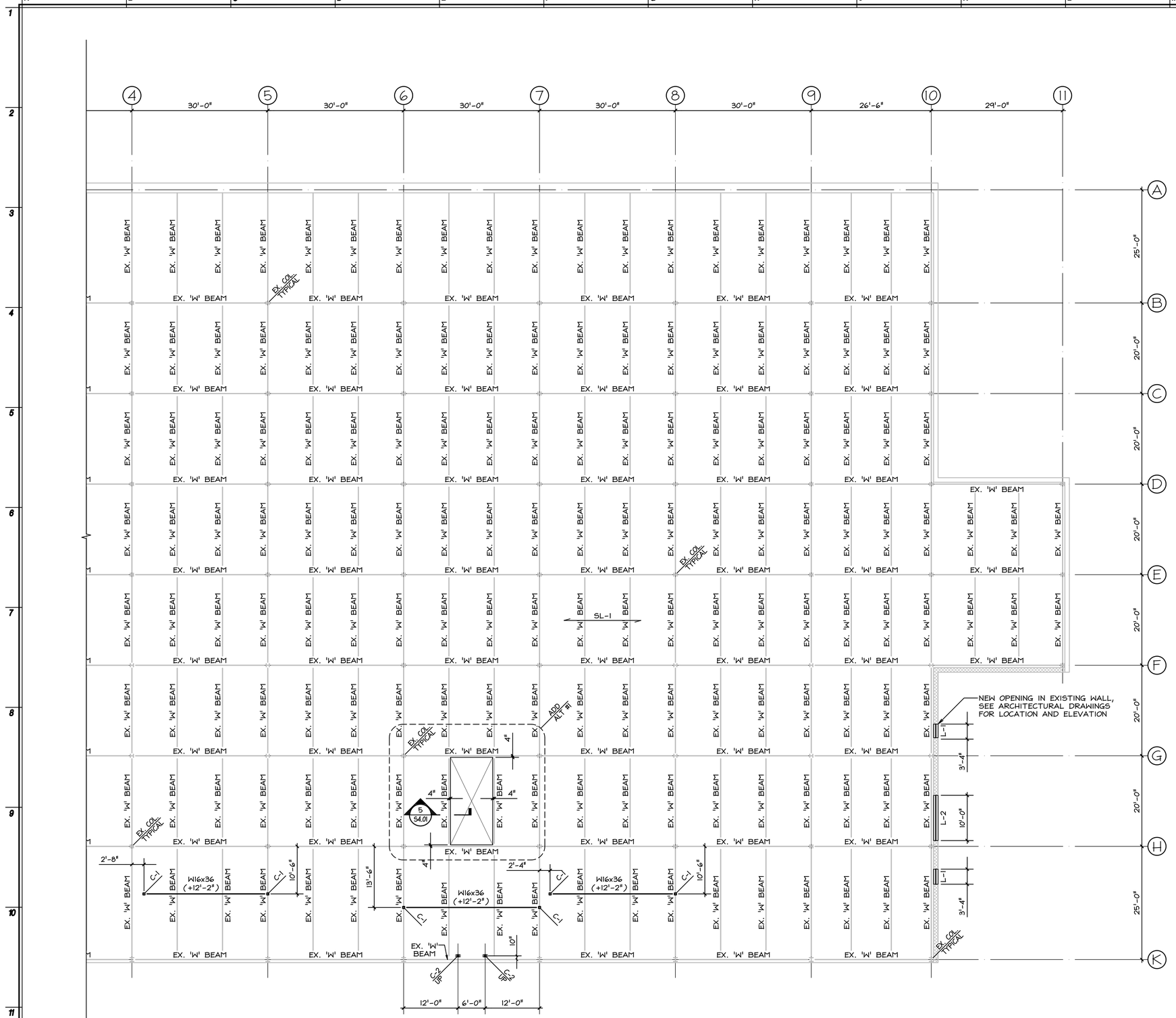
FOUNDATION PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 2107452.01

S2.01



SECOND FLOOR FRAMING PLAN

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

SECOND FLOOR FRAMING NOTES

1. THE SIZE AND LOCATION OF EXISTING FRAMING IS BASED ON LIMITED SITE OBSERVATION. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS OR MEASUREMENTS AND THE INFORMATION SHOWN ON THIS DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER IMMEDIATELY.
2. TOP OF EXISTING SECOND FLOOR SLAB ELEVATION = +17'-5" +/-.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB OPENING REQUIREMENTS. OPENINGS LARGER THAN 12" SHALL BE REINFORCED WITH NEW FRAMING, SEE TYPICAL DETAIL.
4. PROVIDE STEEL FLOOR DECK (TO MATCH EXISTING) AND STEEL FRAMING AS NECESSARY TO INFILL EXISTING OPENINGS. REFER TO ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS.
5. ELEVATIONS ON PLAN ARE REFERENCED FROM TOP OF EXISTING GROUND FLOOR SLAB ON GRADE = 0'-0" AS DATUM.
6. REFER TO DRAWINGS S6.01 TO S6.02 FOR GENERAL NOTES AND TYPICAL DETAILS.

SECOND FLOOR FRAMING SCHEDULE

MARK	DESCRIPTION
C-1	HSS5x5x⅜ COLUMN W/ ¾"x12"x1'-0" BASE PLATE W/ (4) ¾" DIAMETER ANCHOR RODS, SEE TYPICAL DETAIL.
C-2	HSS5x5x⅜ COLUMN W/ ½"x6"x1'-0" BASE PLATE W/ (2) ¾" DIAMETER POST INSTALLED ANCHORS.
SL-1	EXISTING CONCRETE SLAB ON METAL DECK TO REMAIN
L-1	(3) L5x3½x⅜ L.L.V. LOOSE LINTEL, SEE TYPICAL DETAIL.
L-2	W8x18 OVERHEAD DOOR LINTEL, SEE TYPICAL DETAIL.
C8	INDICATES NEW C8x11.5 BEAM AT PROPOSED SLAB OPENING, SEE TYPICAL DETAIL.
⊕( )	INDICATES BOTTOM OF STEEL ELEVATION AS MEASURED FROM DATUM (0'-0").

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Drawn	AJ

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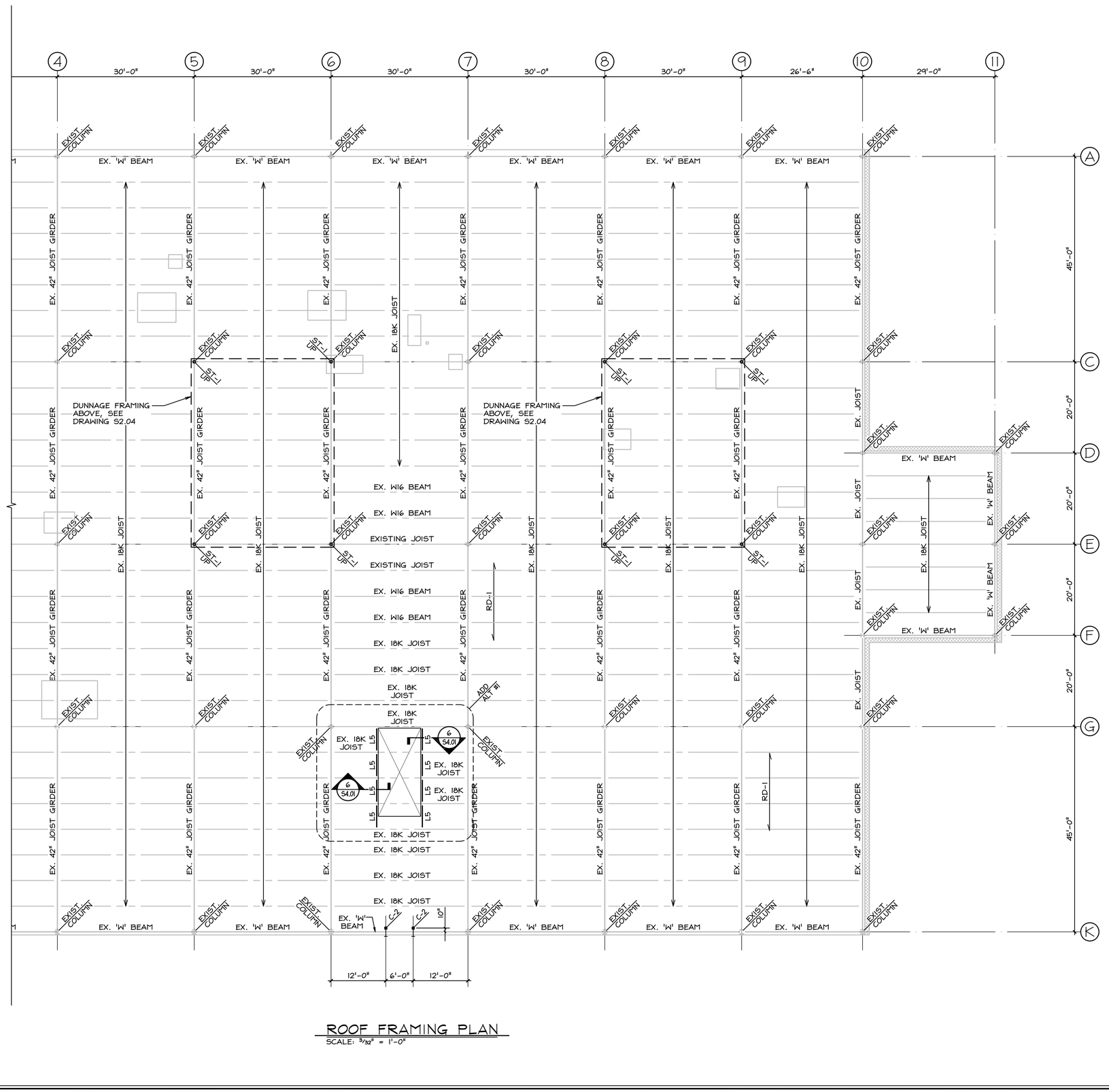
SECOND FLOOR FRAMING PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 21074S2.01

S2.02



ROOF FRAMING PLAN

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

ROOF FRAMING NOTES

1. THE SIZE AND LOCATION OF EXISTING FRAMING IS BASED ON LIMITED SITE OBSERVATION. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS OR MEASUREMENTS AND THE INFORMATION SHOWN ON THIS DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. BOTTOM OF EXISTING ROOF DECK ELEVATION = +36'-0"±
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DECK OPENING REQUIREMENTS. OPENINGS LARGER THAN 12" SHALL BE REINFORCED, SEE TYPICAL DETAIL.
4. PROVIDE L5x3½x⅜ ANGLE FRAME BELOW ALL MECHANICAL UNIT CURBS AND AT ROOF PENETRATIONS, SEE TYPICAL DETAIL.
5. PROVIDE JOIST WEB REINFORCEMENT AT CONCENTRATED LOADS NOT LOCATED AT JOIST PANEL POINTS PER TYPICAL DETAIL.
6. ELEVATIONS ON PLAN ARE REFERENCED FROM TOP OF EXISTING GROUND FLOOR SLAB ON GRADE = 0'-0" AS DATUM.

ROOF FRAMING SCHEDULE

MARK	DESCRIPTION
RD-1	EXISTING 1½" METAL ROOF DECK.
C-2	HSS5x5x⅜ COLUMN W/ ½"x6"x1'-0" BASE PLATE W/ (2) ¾" DIAMETER POST INSTALLED ANCHORS.
ST-1	6" DIA. STANDARD STEEL PIPE COLUMN ABOVE.
L5	INDICATES NEW L5x3½x⅜ ANGLE FRAME AT PROPOSED DECK OPENING, SEE TYPICAL DETAIL.
(+X'-XX")	ON PLAN INDICATES TOP OF STEEL BEAM ELEVATION REFERENCED FROM 0'-0" AS DATUM.

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Job No.: 2107 — Dwg. 3 of 8

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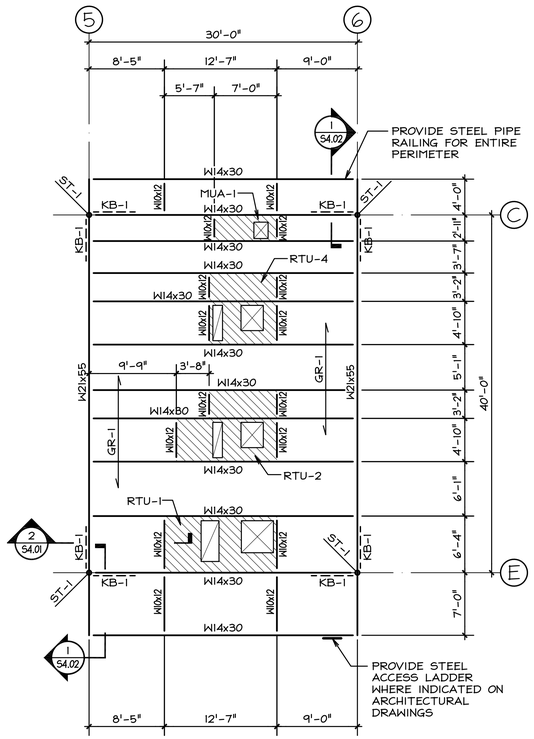
ROOF FRAMING PLAN

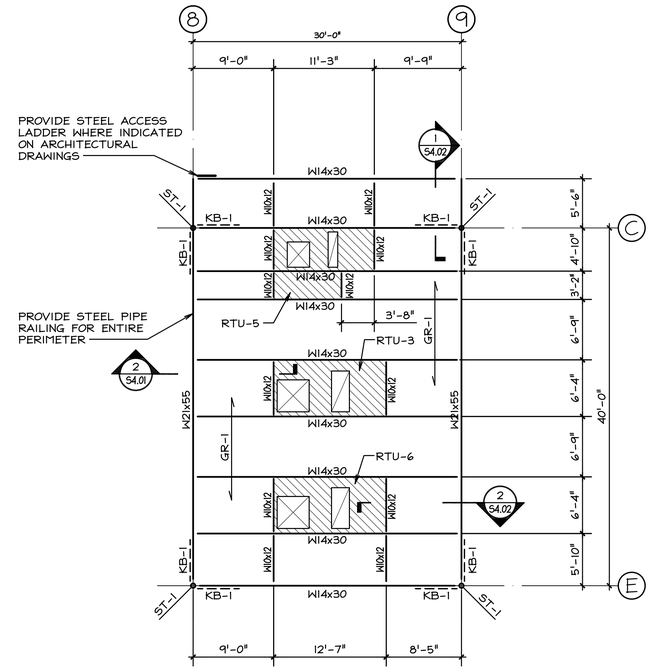
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 2107S2.01

S2.03





DUNNAGE FRAMING PLANS

SCALE: 1/8" = 1'-0"

DUNNAGE FRAMING SCHEDULE

MARK	DESCRIPTION
ST-1	HSS6.00x0.375 ROUND STEEL POST W/ ½" CAP PLATE AND BASE PLATE
KB-1	INDICATES (2) L3x3x¼ KNEE BRACE, SEE DETAIL.
GR-1	INDICATES GALVANIZED STEEL GRATING W/ 1¾"x⅜" MAIN BEARING BARS @ 1 3/16" O.C. AND CROSS BARS @ 4" O.C.
(+X'-XX")	ON PLAN INDICATES TOP OF STEEL BEAM ELEVATION REFERENCED FROM 0'-0" AS DATUM.

RTU SCHEDULE

LABEL	UNIT WEIGHT	CURB WEIGHT	CURB DIMENSIONS
RTU-1	4,441#	550#	68.8" x 174.6"
RTU-2	2,951#	550#	43.38" x 101.5"
RTU-3	4,441#	550#	68.8" x 174.6"
RTU-4	2,711#	550#	48.4" x 81.5"
RTU-5	2,788#	550#	48.38" x 101.5"
RTU-6	4,524#	550#	68.8" x 174.6"
MUA-1	855#	54#	35.0" x 84.0"

DUNNAGE FRAMING NOTES

1. TOP OF DUNNAGE STEEL TO BE 6'-9" ABOVE EXISTING ROOF DECK.
2. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED.

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Date	10/15/21
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Drawn	AJ

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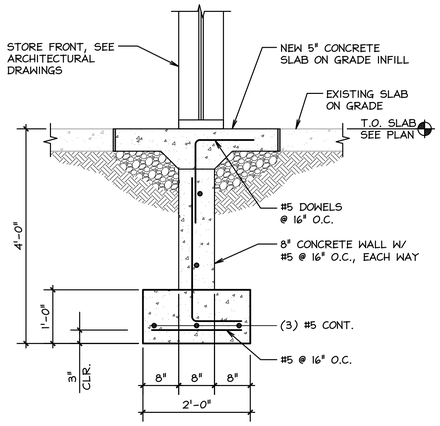
DUNNAGE FRAMING PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

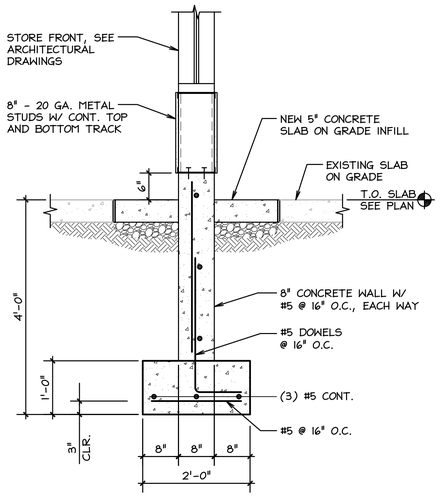
Job No. 4.1552.01

File No. 21074S2.01

S2.04



SECTION 1 S4.01
SCALE: 3/4" = 1'-0"



SECTION 2 S4.01
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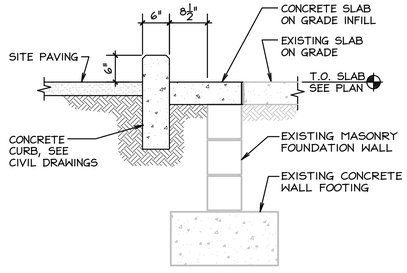
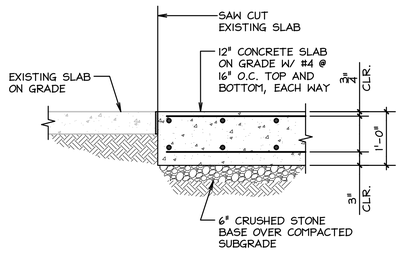


SECTION 3 S4.01
SCALE: 3/4" = 1'-0"



SECTION 4 S4.01
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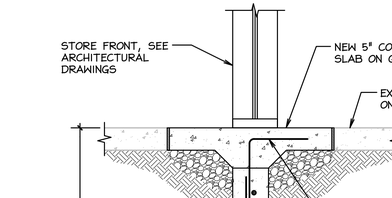

SECTION 5 S4.01
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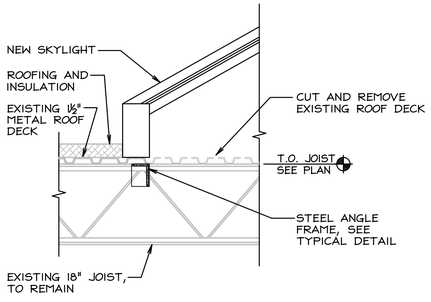
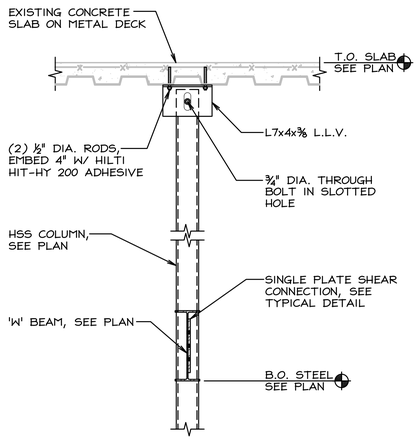


SECTION 6 S4.01
SCALE: 3/4" = 1'-0"



SECTION 7 S4.01
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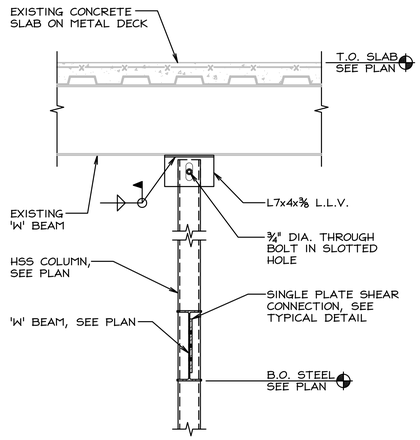

SECTION 8 S4.01
SCALE: 3/4" = 1'-0"

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SECTIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 21074S4.01

S4.01

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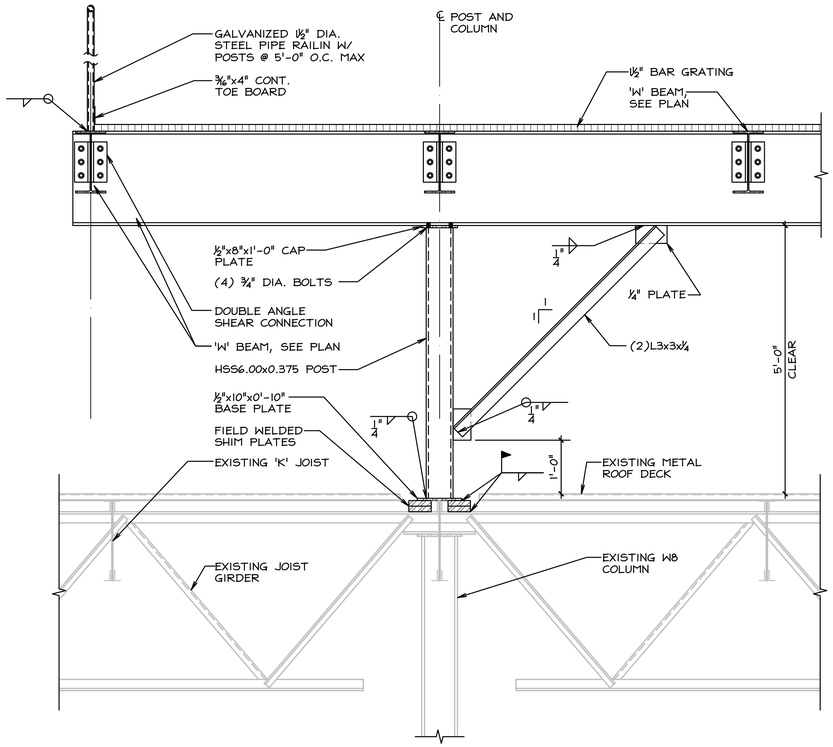
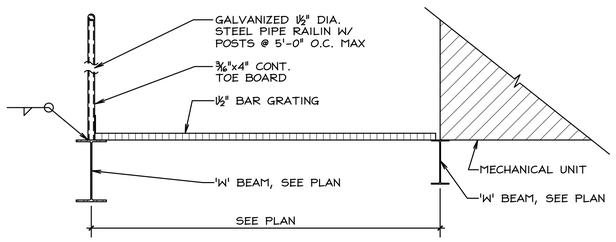
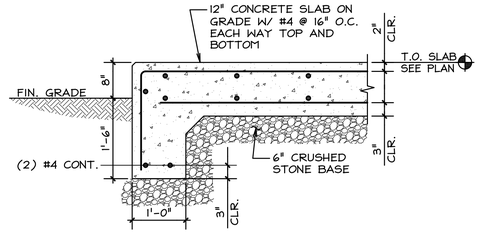


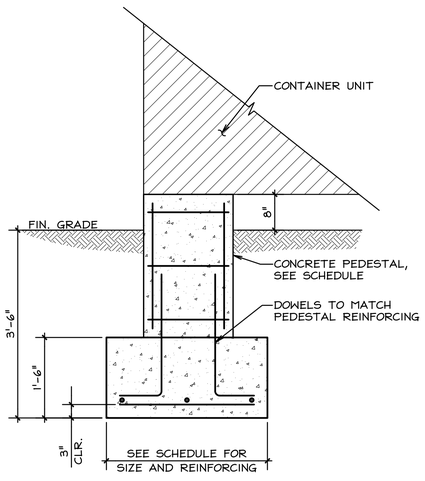
SECTION 1 S4.02
SCALE: 3/4" = 1'-0"



SECTION 2 S4.02
SCALE: 3/4" = 1'-0"



SECTION 3 S4.02
SCALE: 3/4" = 1'-0"



SECTION 4 S4.02
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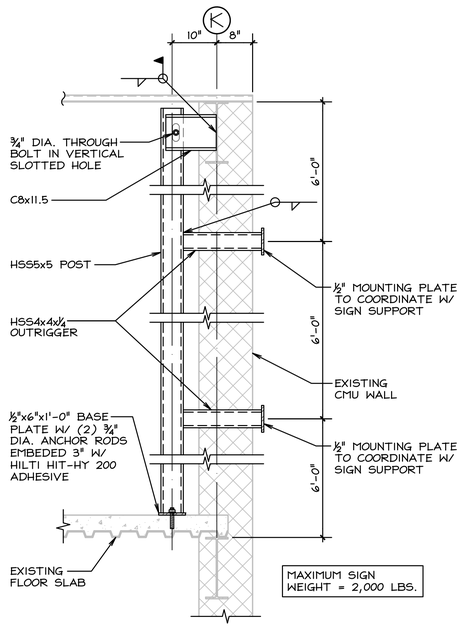
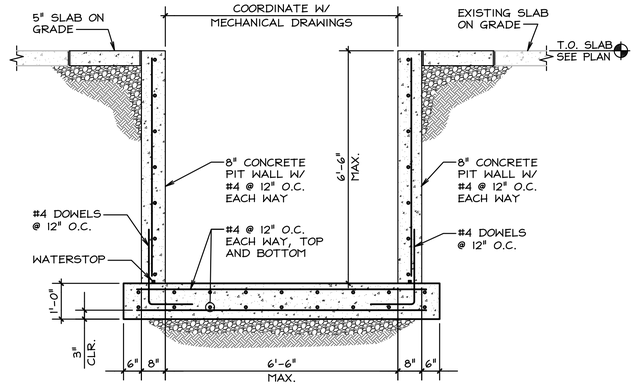


SECTION 5 S4.02
SCALE: 3/4" = 1'-0"



SECTION 6 S4.02
SCALE: 1/2" = 1'-0"

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SECTIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 21074S4.01

S4.02

GENERAL

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF "THE 2020 NEW YORK STATE BUILDING CODE," AND LOCAL ORDINANCES.

WORK THESE DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS OR MEASUREMENTS AND THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY. NO WORK SHALL CONTINUE UNTIL THE DISCREPANCY IS RESOLVED.

THE CONTRACTOR SHALL PROVIDE THE NECESSARY COORDINATION BETWEEN ALL TRADES WITH REGARD TO THE DRAWINGS. LOCATE BOLTS, SLEEVES, AND TRENCHES AS REQUIRED FOR MECHANICAL TRADES, AND PROVIDE AND INSTALL VARIOUS ITEMS NOT SHOWN ON THESE DRAWINGS BUT AS REQUIRED FOR VARIOUS TRADES.

DO NOT SCALE THE STRUCTURAL DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE STRUCTURAL ENGINEER.

THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT ON COMPLETED CONSTRUCTION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL SUPPLY ANY TEMPORARY BRACING REQUIRED UNTIL BUILDING CONSTRUCTION IS COMPLETE.

DURING CONSTRUCTION THE CONTRACTOR SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS. CONSTRUCTION MATERIAL PLACED ON FRAMED FLOORS AND ROOFS SHALL BE SPREAD OUT AS REQUIRED.

THE CONTRACTOR IS RESPONSIBLE FOR SAFETY WITHIN THE JOB SITE AND FOR MEETING ALL APPLICABLE OSHA REQUIREMENTS DURING CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED EXCAVATION SHORING AND THE EVALUATION AND PROTECTION OF ADJACENT STRUCTURES.

FOUNDATIONS AND SLABS ON GRADE

ALL EXCAVATION, SUBGRADE PREPARATION, AND OTHER EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

ALL FOOTINGS ARE DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY OF 2 KIPS PER SQUARE FOOT.

ALL FOOTINGS ARE TO BEAR ON UNDISTURBED VIRGIN SOIL OR CONTROLLED COMPACTED FILL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL EXTEND 4'-0" MINIMUM BELOW FINISHED GRADE.

ALL EXCAVATIONS SHALL BE FREE OF WATER BEFORE POURING CONCRETE.

HAND TRIM SIDES AND BOTTOM OF EARTH FORMS AND REMOVE LOOSE DIRT.

NO SUBSEQUENT EXCAVATION SHALL BE NEARER THAN 2:1 (HORIZONTAL:VERTICAL) TO AN INSTALLED FOOTING OR FOUNDATION.

CONCRETE FOUNDATION WALLS SHALL BE PLACED IN ALTERNATE SECTIONS, NOT MORE THAN 60 FEET IN LENGTH. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED EXCEPT WHERE SHOWN.

PLACE SLABS ON GROUND PER THICKNESS SHOWN ON DRAWINGS WITH TOP OF SLAB SET TO ACCOMMODATE ARCHITECTURAL FINISHES.

PROVIDE SAW CUT CONTROL JOINTS AT AN OPTIMUM TIME AFTER FINISHING. CUT SLABS WITH A 3/16 INCH THICK BLADE TO 1 INCH DEPTH. LOCATE CONTROL JOINTS AT A MAXIMUM SPACING OF 36 TIMES THE SLAB DEPTH AND AT EACH CORNER, COLUMN AND PLAN IRREGULARITY.

THE CONTRACTOR SHALL SUBMIT POUR SEQUENCE AND JOINT LAYOUT TO THE ARCHITECT FOR APPROVAL PRIOR TO POURING CONCRETE SLABS.

SEPARATE SLABS ON GRADE FROM VERTICAL SURFACES WITH JOINT FILLER. EXTEND JOINT FILLER FROM BOTTOM OF SLAB TO WITHIN ½INCH OF FINISHED SLAB SURFACE.

WHERE COMPACTED FILL IS REQUIRED, WELL GRADED GRANULAR MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D-1557.

VERIFICATION OF BEARING CAPACITY AND INSPECTION OF COMPACTED FILL SHALL BE COMPLETED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

ANY UNEXPECTED SUBGRADE CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER.

CONCRETE

ALL CONCRETE MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH ACI 318. EVALUATION AND ACCEPTANCE OF CONCRETE STRUCTURES SHALL BE IN ACCORDANCE WITH ACI 301.

SPECIFIED COMPRESSIVE STRENGTH FC AT 28 DAYS:

FOUNDATIONS AND FOOTINGS: 4000 PSI.
WALLS, COLUMNS, ELEVATED SLABS, AND BEAMS: 4000 PSI.
FLOOR SLABS ON GRADE: 3000 PSI
INTERIOR PADS: 3000 PSI.

SUBMIT PROPOSED MIX DESIGNS AND TEST DATA BEFORE CONCRETE OPERATIONS BEGIN. ESTABLISH THE REQUIRED AVERAGE STRENGTH OF EACH DESIGN MIX ON THE BASIS OF EITHER FIELD EXPERIENCE OR TRIAL MIXTURES AS SPECIFIED IN ACI 301, AND PROPORTION MIXES PER THE RECOMMENDATIONS OF ACI 211.1. EACH MIX SHALL BE IDENTIFIED AS IT WILL APPEAR ON BATCH TICKETS DELIVERED TO PROJECT SITE.

CONCRETE MIX DESIGN SHALL PROVIDE FOR A CONCRETE SLUMP APPROPRIATE FOR PROJECT CONDITIONS. THE CONCRETE SHALL BE SUFFICIENTLY FLUID TO ALLOW FOR EASE OF PLACEMENT AND SUFFICIENTLY STIFF TO PREVENT SEGREGATION.

AGGREGATE SHALL CONFORM TO ASTM C33.

WATER-TO-CEMENT RATIO SHALL NOT EXCEED 0.45 BY WEIGHT. WEIGHT OF WATER SHALL INCLUDE ALL FREE MOISTURE, INCLUDING LIQUID ADMIXTURES.

AIR-ENTRAINING ADMIXTURE SHALL BE ADDED TO ACHIEVE TOTAL AIR CONTENT OF 6 PERCENT FOR EXTERIOR EXPOSED CONCRETE AND 3 PERCENT FOR CONCRETE NOT EXPOSED TO EXTERIOR WITH A TOLERANCE OF 1 PERCENT.

PROVIDE WATER-REDUCING ADMIXTURES CONFORMING TO ASTM C494 AS REQUIRED FOR PLACEMENT AND WORKABILITY AT THE MAXIMUM WATER TO CEMENT RATIO SPECIFIED.

INDICATE TYPE AND QUANTITY OF ADMIXTURES PROPOSED OR REQUIRED. ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS ARE NOT PERMITTED. WHERE MIX CONTAINS MORE THAN ONE ADMIXTURE, ALL ADMIXTURES SHALL BE SUPPLIED BY ONE MANUFACTURER. MANUFACTURER SHALL CERTIFY THAT ADMIXTURES ARE COMPATIBLE SUCH THAT DESIRABLE EFFECTS OF EACH ADMIXTURE WILL BE REALIZED. LIQUID ADMIXTURES SHALL BE CONSIDERED PART OF THE TOTAL WATER.

WATER SHALL BE CLEAN, POTABLE AND FREE FROM DELETERIOUS MATERIAL.

PROVIDE DATA FOR PROPRIETARY MATERIALS, INCLUDING ADMIXTURES, CURING MATERIALS, AND FINISH MATERIALS.

SUBMIT MATERIAL CERTIFICATIONS FOR CEMENTITIOUS MATERIALS, AGGREGATES AND ADMIXTURES.

PROVIDE DEFORMED REINFORCING BARS COMPLYING WITH ASTM A615, GRADE 60, EXCEPT WHERE OTHERWISE INDICATED. ALL DETAILING OF REINFORCING SHALL BE IN ACCORDANCE WITH ACI STANDARD 315.

WELDED WIRE FABRIC SHALL BE ASTM A1064, COLD-DRAWN STEEL, PLAIN.

SUBMIT BAR PLACEMENT SHOP DRAWINGS SHOWING THE LOCATION OF REINFORCING AND CONSTRUCTION JOINTS. DELIVER REINFORCEMENT TO PROJECT SITE BUNDLED AND TAGGED INDICATING BAR SIZES, LENGTHS, AND OTHER DATA CORRESPONDING TO INFORMATION SHOWN ON PLACEMENT DRAWINGS.

PLACE REINFORCEMENT TO ACHIEVE NOT LESS THAN MINIMUM CONCRETE COVERAGE AS REQUIRED FOR PROTECTION. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT TO PREVENT DISPLACEMENT.

CONCRETE PROTECTION FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

ELEVATED SLABS: 3/4"
BEAMS AND COLUMNS (PEDESTALS): 1 1/2"
INSIDE FACE OF WALLS: 1"
CONCRETE POURED ON GROUND: 3"
EXTERIOR FACE OF WALLS (AGAINST EARTH): 2"

FIBROUS REINFORCEMENT FOR SLABS SHALL BE FIBRILLATED POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE COMPLYING WITH ASTM C 1116 TYPE III, 1/2" TO 1 1/2". UNIFORMLY DISPERSE FIBERS IN THE CONCRETE MIX AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN 1.5 POUNDS PER CUBIC YARD.

PROVIDE CLASS B TENSION LAP SPLICES COMPLYING WITH ACI 318 UNLESS OTHERWISE INDICATED.

SURVEY ANCHOR BOLTS FOR PLACEMENT AND ALIGNMENT PRIOR TO CASTING CONCRETE.

INSTALLATION TOLERANCES FOR ANCHOR BOLTS FOR STRUCTURAL STEEL COLUMNS SHALL COMPLY WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

GROUT SHALL CONFORM TO ASTM C1107, GRADE B NON-SHRINK, NON-METALLIC, PREPACKAGED GROUT WITH A COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.

THE CONTRACTOR IS RESPONSIBLE FOR DESIGN, ENGINEERING, AND CONSTRUCTION OF FORMWORK, CAPABLE OF SUPPORTING ALL APPLIED LOADS UNTIL THE CONCRETE IS ADEQUATELY CURED, WITHIN ALLOWABLE TOLERANCES AND DEFLECTION LIMITS.

LOCATE AND INSTALL CONSTRUCTION JOINTS AS INDICATED ON DRAWINGS. IF CONSTRUCTION JOINTS ARE NOT INDICATED, LOCATE IN A MANNER WHICH WILL NOT IMPAIR STRENGTH AND WILL HAVE LEAST IMPACT ON APPEARANCE.

PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING AND APPLYING BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

IN LOCATIONS WHERE NEW CONCRETE IS DOWELED TO EXISTING WORK, DRILL HOLES IN EXISTING CONCRETE, INSERT STEEL DOWELS AND PACK SOLID WITH EPOXY GROUT.

FOUNDATION SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED MUST BE FREE FROM STANDING WATER, MUD AND DEBRIS. SURFACES SHALL BE CLEAN AND FREE FROM OIL, OBJECTIONABLE COATINGS, AND LOOSE OR UNSOUND MATERIAL.

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.

CONSOLIDATE CONCRETE BY MEANS OF MECHANICAL VIBRATORS TO ACHIEVE CONSISTENT CONSOLIDATION WITHOUT SEGREGATION OF COARSE AGGREGATES.

REPAIR SURFACE DEFECTS, INCLUDING TIE HOLES, IMMEDIATELY AFTER REMOVING FORMWORK.

PROTECT CONCRETE FROM SUN AND RAIN. DO NOT PERMIT CONCRETE TO BECOME DRY DURING CURING PERIOD. CONCRETE SHALL NOT BE SUBJECTED TO ANY LOADS UNTIL CONCRETE IS COMPLETELY CURED, AND UNTIL CONCRETE HAS ATTAINED ITS 28 DAY STRENGTH AND 14 DAYS MINIMUM.

UPON COMPLETION OF FINISHING OPERATION, THE SURFACE OF SLABS SHALL BE SEALED AGAINST MOISTURE LOSS FOR 7 DAYS BY THE APPLICATION OF A CURING MEMBRANE OR BLANKET.

CONCRETE IN FORMS SHALL BE KEPT MOIST UNTIL REMOVAL. IMMEDIATELY UPON REMOVAL OF FORMS, AN APPROVED SPRAYED-ON CURING COMPOUND SHALL BE APPLIED TO THE CONCRETE SURFACES IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CURING SHALL BE MAINTAINED FOR 7 DAYS.

FORMED SURFACES SHALL COMPLY WITH MINIMUM TOLERANCES ESTABLISHED IN ACI 117, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED ON THE DRAWINGS.

FINISH EXPOSED CONCRETE TO OFFER SMOOTH, STAIN-FREE FINAL APPEARANCE AND MINIMUM NUMBER OF JOINTS. PROVIDE FORMING MATERIALS WITH SUFFICIENT STRENGTH TO RESIST HYDROSTATIC HEAD WITHOUT BOW OR DEFLECTION IN EXCESS OF ALLOWABLE TOLERANCES.

PROVIDE CONCRETE FILL FOR STEEL PAN STAIR TREADS, LANDINGS, AND ASSOCIATED ITEMS. SCREED, TAMP, AND FINISH CONCRETE SURFACES AS SCHEDULED.

COMPLY FULLY WITH RECOMMENDATIONS OF ACI 306 WHEN AIR TEMPERATURES ARE EXPECTED TO DROP BELOW 40°F EITHER DURING CONCRETE PLACEMENT OPERATIONS OR BEFORE CONCRETE HAS CURED. PROTECTIVE MEASURES INCLUDE BUT ARE NOT LIMITED TO HEATING OF MATERIALS, HEATED ENCLOSURES, AND INSULATING BLANKETS.

COMPLY FULLY WITH RECOMMENDATIONS OF ACI 305 WHEN AMBIENT TEMPERATURE BEFORE, DURING, OR AFTER CONCRETE PLACEMENT IS EXPECTED TO EXCEED 90°F OR WHEN COMBINATIONS OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND SPEED ARE SUCH THAT THE RATE OF EVAPORATION FROM FRESHLY POURED CONCRETE WOULD OTHERWISE EXCEED 0.2 POUNDS PER SQUARE FOOT PER HOUR. PROTECTIVE MEASURES INCLUDE BUT ARE NOT LIMITED TO COOLING OF MATERIALS BEFORE OR DURING MIXING, PLACEMENT DURING EVENING TO DAWN HOURS, FOGGING DURING FINISHING AND CURING, SHADING, AND WINDBREAKS

SAMPLE CONCRETE AND MAKE SPECIMENS FOR TESTING PER ASTM C172 AND ASTM C31. TAKE SAMPLES AT POINT OF DISCHARGE AND REPORT RESULTS OF ALL TESTS.

TEST SLUMP OF THE FIRST 2 LOADS OF CONCRETE DELIVERED FOR EACH POUR AND ONCE PER STRENGTH TEST PERFORMED PER ASTM C143 WITH ADDITIONAL TESTS IF CONCRETE CONSISTENCY CHANGES.

TEST AIR CONTENT OF THE FIRST 2 LOADS OF CONCRETE DELIVERED FOR EACH POUR AND ONCE FOR EACH STRENGTH TEST PERFORMED PER ASTM C173 OR ASTM C231.

TEST CONCRETE TEMPERATURE FOR EACH STRENGTH TEST PERFORMED AND HOURLY WHEN AIR TEMPERATURE IS BELOW 40°F OR ABOVE 90°F.

PROVIDE ONE COMPRESSIVE STRENGTH TEST PER ASTM C39 FOR EVERY 50 CUBIC YARDS OR FRACTION THEREOF FOR EACH DAY'S POUR OF EACH CONCRETE CLASS.

MOLD AND CURE ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST REQUIRED. TEST ONE SPECIMEN PER SET AT 7 DAYS FOR INFORMATION AND TEST 2 SPECIMENS PER SET FOR ACCEPTANCE OF STRENGTH POTENTIAL AT 28 DAYS. RETAIN ONE SPECIMEN FROM EACH SET FOR LATER TESTING, IF REQUIRED.

EVALUATE CONSTRUCTION AND CURING PROCEDURES AND IMPLEMENT CORRECTIVE ACTION WHEN STRENGTH RESULTS FOR FIELD-CURED SPECIMENS ARE LESS THAN 85 PERCENT OF TEST VALUES FOR COMPANION LABORATORY-CURED SPECIMENS.

COST OF ADDITIONAL TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHEN UNACCEPTABLE CONCRETE HAS BEEN VERIFIED.

STRUCTURAL STEEL

ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS OF AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," LATEST EDITION.

ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" FOR EACH PROCESS, POSITION AND JOINT CONFIGURATION.

STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL CONFORM WITH ASTM A992.

STEEL PLATE, BARS AND CHANNELS SHALL CONFORM WITH ASTM A36 UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL TUBING SHALL CONFORM WITH ASTM A500, GRADE B

STRUCTURAL STEEL PIPE SHALL CONFORM WITH ASTM A53, GRADE B.

BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE MINIMUM 3/4" DIAMETER ASTM A325-N UNLESS DESIGNATED AS A490 ON THE DRAWINGS. NUTS SHALL BE ASTM A563 GRADE C OR DH. TENSION CONTROL BOLTS SHALL BE ASTM F1852 OR ASTM F2280.

WASHERS SHALL BE FLAT CONFORMING TO ASTM F436 TYPE 1. THE FINISH OF WASHERS IS TO MATCH THE NUT. A325 BOLTS SHALL HAVE WASHERS UNDER THE HEAD AND A490 BOLTS SHALL HAVE HARDENED WASHERS UNDER THE HEAD AND THE NUT.

ANCHOR BOLTS SHALL BE ASTM F1554 55 KSI YIELD STRENGTH, UNLESS OTHERWISE NOTED.

SHEAR STUD CONNECTORS CONFORMING TO ASTM A108 ARE TO BE FIELD INSTALLED. AFTER WELDING, STUDS ARE TO BE THE LENGTH SHOWN ON THE DRAWINGS. SHOP WELDING OF STUDS IS NOT PERMITTED.

ALL WELDS SHALL UTILIZE E70XX ELECTRODES AND SHALL BE A MINIMUM OF 3/16 INCH IN SIZE UNLESS NOTED OTHERWISE.

CONNECTIONS SHALL BE BOLTED OR WELDED WITH A MINIMUM OF TWO BOLTS OR EQUIVALENT WELD.

UNLESS CONNECTIONS ARE DETAILED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS. CONNECTION DESIGN SHALL BE UNDER THE DIRECT SUPERVISION OF AN ENGINEER EXPERIENCED IN CONNECTION DESIGN.

BEAM CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION. STANDARD WEB CONNECTIONS SHALL BE PROVIDED WHERE POSSIBLE.

BEAM CONNECTIONS ARE TO BE DESIGNED TO RESIST ONE HALF THE ALLOWABLE LOAD FOR THE APPROPRIATE SPAN GIVEN IN THE MAXIMUM TOTAL UNIFORM LOAD TABLE OF THE AISC MANUAL OF STEEL CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF ANY CONNECTIONS DESIGNED BY THE CONTRACTOR. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY

SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION OR ORDERING OF STEEL.

SHOP DRAWINGS SHALL INCLUDE ERECTION PLANS AND PIECE DETAILS INDICATING SIZE, SPACING, LOCATION AND ATTACHMENT OF STRUCTURAL MEMBERS INCLUDING SIZE AND SPACING OF BOLTS AND WELDS. SUBMITTAL MUST ALSO INCLUDE A THREE DIMENSIONAL RENDERING OF THE STEEL FRAMING.

THE CONTRACTOR SHALL SURVEY, REVIEW AND CONFIRM EXISTING CONDITIONS PRIOR TO DEVELOPING SHOP DRAWINGS.

NO PORTION OF THE CONTRACT DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.

SHOP PRIME ALL STRUCTURAL STEEL MEMBERS WITH FAST-CURING, LEAD AND CHROMATE-FREE, VOC-COMPLIANT, UNIVERSAL MODIFIED-ALKYD PRIMER WITH GOOD RESISTANCE TO NORMAL ATMOSPHERIC CORROSION, COMPLYING WITH PERFORMANCE REQUIREMENTS OF FS TT-P-664, OR EQUIVALENT.

DO NOT PRIME SURFACES THAT WILL BE FIREPROOFED, IN CONTACT WITH CONCRETE, WITHIN 3 INCHES OF FIELD WELDS, OR ON THE FAYING SURFACE OF HIGH STRENGTH BOLTED FRICTION CONNECTIONS.

GALVANIZE STRUCTURAL STEEL MEMBERS AS INDICATED ON THE DRAWINGS IN ACCORDANCE WITH ASTM A123 AND A385 AFTER FABRICATION. PREPARE GALVANIZED SURFACES TO BE PAINTED IN ACCORDANCE WITH ASTM D2092 AND SHOP COAT WITH A COMPATIBLE PRIMER. REPAIR DAMAGED GALVANIZING IN ACCORDANCE WITH ASTM A780.

FURNISH AND INSTALL TEMPORARY SUPPORTS AND INTERNAL BRACES NECESSARY TO SUPPORT STRUCTURAL STEEL DURING ERECTION. TEMPORARY SUPPORTS AND BRACES SHALL BE ADEQUATE FOR ANTICIPATED WIND, SEISMIC, EQUIPMENT AND ERECTION LOADS. REMOVE TEMPORARY SHORING AFTER THE STEEL ERECTION IS COMPLETE.

THE OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.

FIELD WELDING AND HIGH STRENGTH BOLTS WILL BE SUBJECT TO INSPECTION.

THE CONTRACTOR WILL REMOVE AND REPLACE WORK THAT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS AND BE RESPONSIBLE FOR THE COST OF ADDITIONAL INSPECTING TO DETERMINE COMPLIANCE OF CORRECTED WORK WITH SPECIFIED REQUIREMENTS.

POST-INSTALLED ANCHORS

ALL-POST INSTALLED ANCHORS SHALL BE PROVIDED BY HILTI, INC. AS NOTED BELOW OR APPROVED EQUAL.

ADHESIVE ANCHORS TO CONCRETE SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HAS-E THREADED ROD.

MECHANICAL SCREW ANCHORS TO CONCRETE SHALL BE HILTI HUS EZ SCREW ANCHORS.

MECHANICAL EXPANSION ANCHORS TO CONCRETE SHALL BE HILTI HSL-3 EXPANSION ANCHORS.

REBAR DOWELING TO CONCRETE SHALL BE HILTI HI-HY 200 SAFE SET SYSTEM.

REBAR DOWELING TO ROCK SHALL BE HILTI HIT-RE 500-SD EPOXY ADHESIVE SYSTEM.

ADHESIVE ANCHORS TO MASONRY SHALL BE HILTI HIT-HY 70 ANCHORING SYSTEM WITH HILTI HAS-E THREADED ROD AND SCREEN TUBE.

ANCHORS SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.

ANCHOR DIAMETER, EMBEDMENT AND SPACING SHALL BE AS NOTED ON THE DRAWINGS.

ANCHOR CAPACITY IS DEPENDENT ON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE DISTANCE INDICATED ON THE DRAWINGS AND THE MANUFACTURER RECOMMENDATIONS.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704 OF "THE 2020 NEW YORK STATE BUILDING CODE."

THE OWNER SHALL EMPLOY A SPECIAL INSPECTION AGENCY TO PERFORM INSPECTIONS AND TESTING DURING CONSTRUCTION.

SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 - MATERIALS, ASTM D3740 - SOILS, ASTM C1077 - CONCRETE, ASTM A880 - STEEL, AND ASTM E543 - NON-DESTRUCTIVE TESTING.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING CODE OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.

THE SPECIAL INSPECTOR SHALL OBSERVE CONSTRUCTION PROGRESS FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AND BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, CONTRACTOR, AND OWNER.

THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT INDICATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

INSPECTIONS SHALL BE CONDUCTED FOR THE MATERIALS AND OPERATIONS LISTED PER THE FOLLOWING STATEMENT OF SPECIAL INSPECTIONS:

GEOTECHNICAL INSPECTIONS:

BEARING CAPACITY BELOW SHALLOW FOUNDATIONS
DEPTH OF FOOTING
CLASSIFICATION AND TESTING OF FILL MATERIALS
MATERIAL, DENSITY AND LIFT THICKNESS OF COMPACTED FILL

CONCRETE INSPECTIONS:

PLACEMENT OF REINFORCING STEEL
ANCHOR BOLT LOCATION
VERIFY USE OF REQUIRED MIX DESIGN
SAMPLE CONCRETE FOR STRENGTH TESTS
MEASURE AIR CONTENT, TEMPERATURE, AND SLUMP
FORMWORK FOR SIZE, SHAPE AND LOCATION

STEEL INSPECTIONS:

BOLT QUANTITY AND TENSIONING
WELD SIZE AND TYPE
MEMBER LOCATIONS AND JOINT DETAILS

DESIGN LOADS

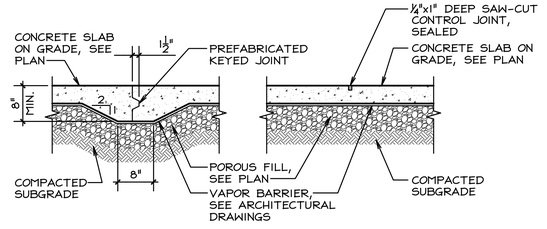
FLOOR
DEAD LOAD : 50 PSF
LIVE LOAD : 100 PSF

ROOF
DEAD LOAD : 20 PSF
LIVE LOAD : 30 PSF - CALCULATIONS INCLUDE SNOW DRIFT, WHERE REQ'D.

ROOF SNOW LOADS
GROUND SNOW LOAD (Pg): 30 PSF
FLAT ROOF SNOW LOAD (Pf): 21.0 PSF
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.0

WIND LOADS
ULTIMATE DESIGN WIND SPEED (Vult): 115 MPH
RISK CATEGORY: II
WIND EXPOSURE CATEGORY: B
INTERNAL PRESSURE COEFFICIENT: ± 0.18

EARTHQUAKE DESIGN DATA
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR (Ie): 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
-Ss : .196
-S1 : .065
SITE CLASS: D
SPECTRAL RESPONSE COEFFICIENTS:
- Sds : 0.209
- Sd1 : 0.104
SEISMIC DESIGN CATEGORY: B
SEISMIC FORCE RESISTING SYSTEM:
MOMENT RESISTING FRAME
SEISMIC RESPONSE COEFFICIENT (Cs): 0.070
RESPONSE MODIFICATION FACTOR (R): 3.0
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE



CONSTRUCTION JOINT CONTROL JOINT

TYPICAL CONCRETE SLAB ON GRADE JOINTS
NOT TO SCALE

Micucci Engineering, P.C.
Consulting Structural Engineers
265 South Little Tor Road, Suite 207
New City, New York 10956
Phone: (845) 628-8190

Job No.: 21074 Dwg. 7 of 8

NEW YORK STATE LICENSED PROFESSIONAL ENGINEER EDWARD P. WILKOWSKI

EDWARD P. WILKOWSKI P.E.
N.Y. License No.: 082493

Date	10/15/21
Checked	EW
Drawn	AJ

MATTHEW T. MILNAMOW, R.A.
The REGISTERED ARCHITECT License No. 32407

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252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

Revisions:

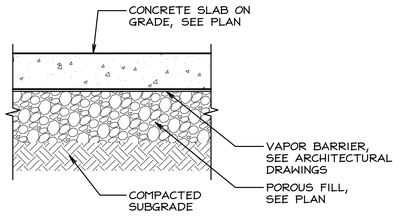
1 PERMIT SET 10/15/21

GENERAL NOTES AND TYPICAL DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

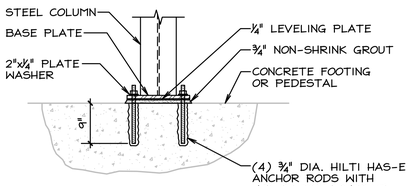
Job No. 4.1552.01

File No. 21074S6.01

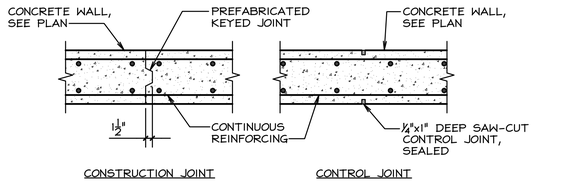
S6.01



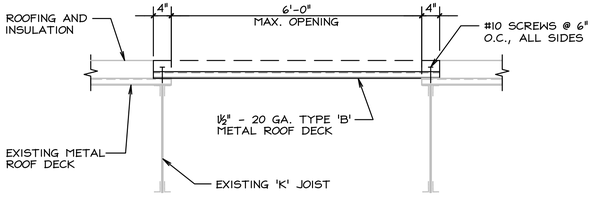
TYPICAL SLAB ON GRADE
NOT TO SCALE



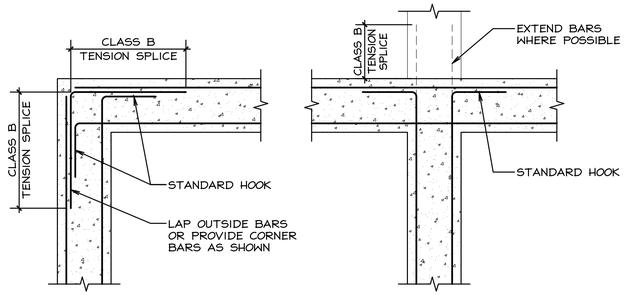
TYPICAL POST INSTALLED BASE PLATE ANCHOR RODS
NOT TO SCALE



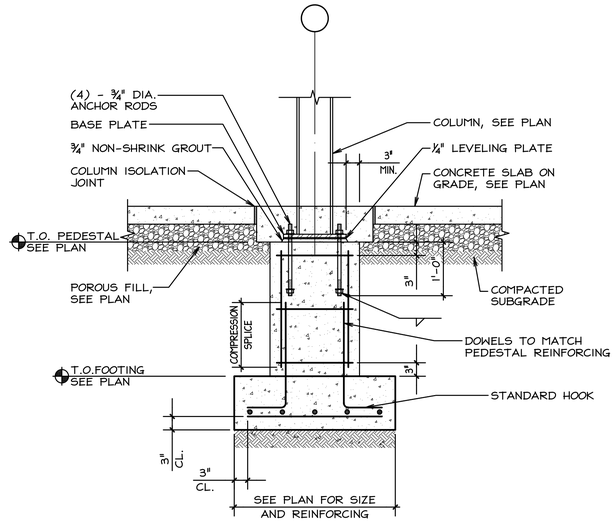
TYPICAL CONCRETE WALL JOINTS
NOT TO SCALE



TYPICAL EXISTING ROOF OPENING CLOSURE
NOT TO SCALE



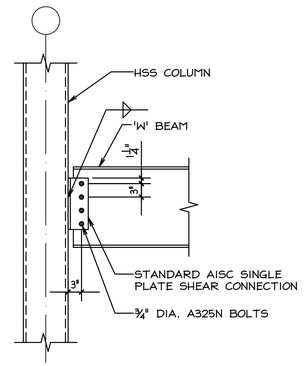
TYPICAL CONCRETE WALL AND FOOTING INTERSECTION
NOT TO SCALE



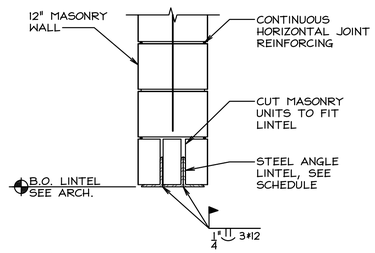
TYPICAL INTERIOR COLUMN PEDESTAL
NOT TO SCALE

CONNECTION SCHEDULE

BEAM SIZE	BOLT ROWS	WELD SIZE	PLATE THICKNESS
W8, W10	2	¼"	⅜"
W12, W14	3	¼"	⅜"
W16	4	¼"	⅜"
W18	5	¼"	⅜"
W21	6	¼"	⅜"
W24, W27	7	¼"	⅜"
W30	8	¼"	⅜"



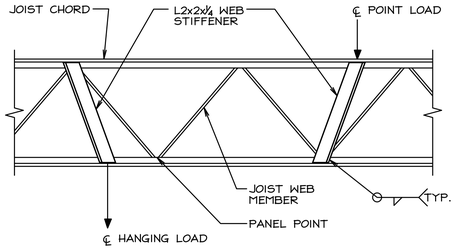
TYPICAL BEAM TO HSS COLUMN CONNECTION
NOT TO SCALE



NOTES:

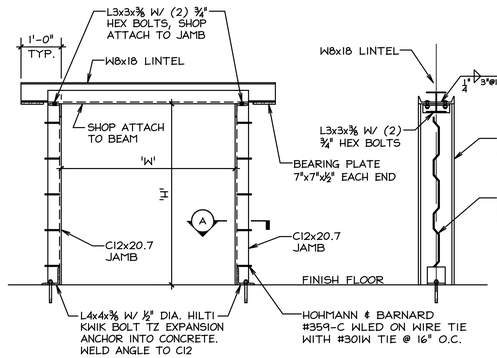
1. BEAR LINTEL 8" MINIMUM BEYOND OPENING. GROUT WALL SOLID UNDER BEARING FOR FULL HEIGHT OF OPENING.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS.

TYPICAL ANGLE LINTEL IN 12" MASONRY WALL
NOT TO SCALE

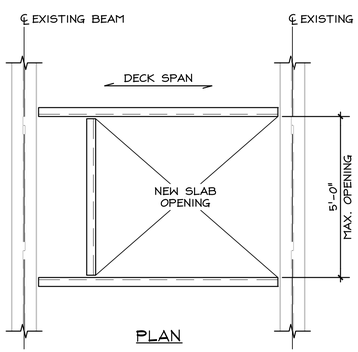


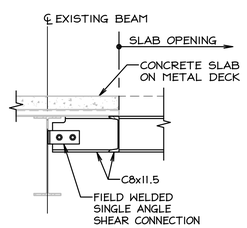
NOTE: PROVIDE FIELD INSTALLED WEB STIFFENER AT ALL CONCENTRATED LOADS GREATER THAT 100 POUNDS OCCURRING MORE THAN 3" FROM A JOIST PANEL POINT.

TYPICAL JOIST REINFORCEMENT AT CONCENTRATED LOADS
NOT TO SCALE



TYPICAL OVERHEAD DOOR LINTEL IN 12" MASONRY WALL
NOT TO SCALE

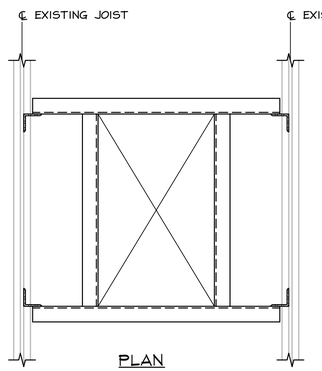


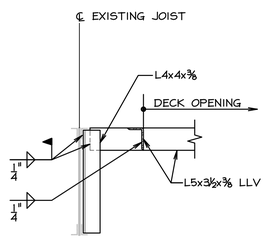


NOTES:

1. PROVIDE SUPPORT FRAME AT ALL SLAB OPENINGS GREATER THAN 12".
2. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF SLAB OPENINGS.

TYPICAL SUPPORT FRAME AT OPENINGS IN CONCRETE SLABS
NOT TO SCALE

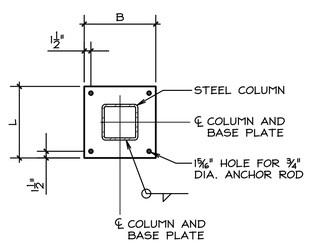


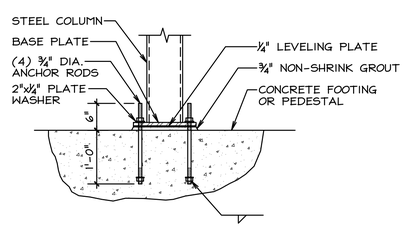


NOTES:

1. PROVIDE SUPPORT FRAME AT ALL ROOF OPENINGS GREATER THAN 12".
2. PROVIDE SUPPORT FRAME UNDER THE FULL PERIMETER OF CURB MOUNTED MECHANICAL EQUIPMENT.
3. FOR SIZE AND LOCATION OF ROOF OPENINGS AND MECHANICAL EQUIPMENT SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. PROVIDE JOIST REINFORCEMENT AS REQUIRED TO ACCOMMODATE POINT LOADS.

TYPICAL SUPPORT FRAME FOR ROOF OPENINGS AND EQUIPMENT CURBS
NOT TO SCALE





TYPICAL HSS COLUMN BASE DETAIL
NOT TO SCALE

Date	10/15/21
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TYPICAL DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Micucci Engineering, P.C.
Consulting Structural Engineers
265 South Little Tor Road, Suite 207
New City, New York 10956
Phone: (845) 628-8100
Job No.: 21074 Dwg. 8 of 8

EDWARD P. WILKOWSKI, P.E.
N.Y. License No. 082493

Job No. 4.1552.01
File No. 21074S6.01

S6.02

Legend (REFER TO DEMOLITION FLOOR PLANS)

SYMBOL	DESCRIPTION
	EXISTING PARTITION TO REMAIN
	EXISTING PARTITION TO BE REMOVED/ DEMOLISHED
	REMOVE PORTION OF EXISTING PARTITION TO DIMENSION SHOWN.
	EXISTING DOOR/FRAME TO BE REMOVED
	EXISTING SUSPENDED CEILING TO BE REMOVED

General Notes

1. DIMENSIONS SHOWN ARE FROM FACE OF FINISH MATERIALS (+/-) UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS.
3. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF AREAS TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN.
4. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES ONLY WITHIN THE ALLOWABLE HOURS OF OPERATION ON WEEKDAYS AND WEEKENDS IN ACCORDANCE WITH THE LOCAL NOISE ORDINANCE. THE CONTRACTOR SHALL CONSULT THE LOCAL MUNICIPALITY FOR ACCEPTABLE HOURS.
5. CONTRACTOR IS REQUIRED TO PATCH (TO MATCH EXISTING), IMMEDIATELY AFTER REMOVAL, ALL WALL, FLOOR & CEILING OPENINGS WHERE EXISTING PIPE, DUCT, CONVECTORS, ETC. ARE BEING REMOVED. SEAL OPENING WITH 3 HOUR BARRIER CAULK. REFER TO FIRESTOPPING DETAILS FOR ADDITIONAL INFORMATION.

Demolition Key Notes

SYMBOL INDICATES DEMOLITION KEY NOTE

1. **INTERIOR PARTITION DEMOLITION:** CONTRACTOR TO REMOVE EXISTING INTERIOR PARTITION, INCLUDING WALL BASE, GWB, STUDS, ELECTRICAL OUTLETS, SWITCHES, ETC. CONTRACTOR TO TERMINATE ALL ELECTRICAL COMPONENTS IN ACCORDANCE WITH NEC REQUIREMENTS. CONTRACTOR TO TEMPORARILY BRACE AND SHORE ALL REMAINING WALLS, FLOORS, AND CEILINGS AS REQUIRED PRIOR TO DEMOLITION.
2. **DOOR REMOVAL:** CONTRACTOR TO REMOVE EXISTING DOOR, HINGES, FRAME, HARDWARE, CLOSER, ETC. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL.
3. **FLOOR FINISH:** CONTRACTOR TO REMOVE EXISTING FLOOR FINISH IN ITS ENTIRETY TO EXPOSE EXISTING CONCRETE SUB-FLOOR & DISPOSE OF IN AN APPROVED MANNER.
4. **CASEWORK:** CONTRACTOR TO REMOVE AND DISCARD OF EXISTING CASEWORK INCLUDING COUNTERS, DOORS, HINGES, BLOCKING, SINKS, ETC. CONFER WITH OWNER FOR SALVAGE PRIOR TO DEMOLITION.
5. **ACOUSTICAL CEILING TILE & GRID DEMOLITION:** ENTIRE SPACE U.O.N. CONTRACTOR TO REMOVE AND DISCARD EXISTING SUSPENDED CEILING, TILE AND SOFFIT INCLUDING CEILING GRID, WALL ANGLES, SUPPORT WIRES, CLIPS, TIES, ETC.
6. **LIGHTING DEMOLITION:** EC TO DEMO EXISTING LIGHTING IN ITS ENTIRETY. EC TO TERMINATE ALL ELECTRICAL CONNECTIONS PER NEC REQUIREMENTS. SEE ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION. CONFER WITH OWNER FOR SALVAGE PRIOR TO DEMOLITION.
7. **HVAC DIFFUSERS & RETURN AIR GRILLES:** MC TO REMOVE EXISTING SUPPLY DIFFUSERS, RETURN AIR GRILLES, AND/OR LOUVERS IN THEIR ENTIRETY. SEE MECHANICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
8. **FIRE PROTECTION:** EC TO REMOVE EXISTING FIRE ALARM DEVICE. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
9. CONTRACTOR TO REMOVE SMOKE DETECTOR, EMERGENCY LIGHT, EXIT SIGN, HORN STROBE OR RELATED DEVICE. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
10. EXISTING ELECTRICAL PANELS TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
11. CONTRACTOR TO DEMOLISH EXISTING PLUMBING FIXTURES IN THEIR ENTIRETY. DISCONNECT & REMOVE EXISTING PIPING AS REQUIRED. REFER TO PLUMBING DRAWINGS.
12. CONTRACTOR TO DEMOLISH EXISTING TOILET PARTITIONS, DOORS & HARDWARE IN THEIR ENTIRETY.
13. CONTRACTOR TO DEMOLISH EXISTING COLUMN WRAP FROM FLOOR SURFACE TO UNDERSIDE OF STRUCTURE ABOVE.
14. CONTRACTOR TO DEMOLISH EXISTING STOREFRONT SYSTEM INCLUDING FRAMING, GLAZING, HARDWARE, ETC. IN ITS ENTIRETY.
15. CONTRACTOR TO DEMOLISH EXISTING EXTERIOR COLUMN WRAPS TO EXPOSE STRUCTURAL STEEL.
16. EXISTING TENANT SPACE TO REMAIN. NOT IN CONTRACT.
17. CONTRACTOR SHALL SAW-CUT AND REMOVE EXISTING CONCRETE SLAB FLOOR & ASSOCIATED STRUCTURE BELOW. CONTRACTOR SHALL TEMPORARILY SHORE AND BRACE FLOOR STRUCTURE FROM LEVEL BELOW. REFER TO STRUCTURAL DRAWINGS FOR SHORING AND BRACING INFORMATION.
18. CONTRACTOR TO REMOVE EXISTING EXTERIOR PARTITION, INCLUDING WALL BASE, GWB, STUDS, ELECTRICAL OUTLETS, SWITCHES, ETC. CONTRACTOR TO TERMINATE ALL ELECTRICAL COMPONENTS IN ACCORDANCE WITH NEC REQUIREMENTS. CONTRACTOR TO TEMPORARILY BRACE AND SHORE ALL REMAINING WALLS, FLOORS, AND CEILINGS AS REQUIRED PRIOR TO DEMOLITION.
19. CONTRACTOR TO REMOVE EXISTING STOREFRONT GLAZING SYSTEM.
20. CONTRACTOR TO SAW-CUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB. CONTRACTOR TO EXCAVATE EXISTING MATERIAL UNDER THE SLAB AS REQUIRED. REFER TO PROPOSED FLOOR PLAN, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
21. CONTRACTOR TO DEMOLISH EXISTING COLUMN COVERS IN THEIR ENTIRETY. PREPARE FOR NEW PAINT.
22. CONTRACTOR TO DEMOLISH PORTION OF EXISTING MASONRY WALL SYSTEM.
23. CONTRACTOR TO DEMOLISH EXISTING BUILDING MOUNTED SIGNAGE WITH LIGHTING AND ALL ASSOCIATED CONDUIT. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL. SEE ELECTRICAL DRAWINGS
24. EXISTING WALL SYSTEM TO REMAIN. PREPARE FOR NEW PAINT.
25. CONTRACTOR TO DEMO EXISTING EXTERIOR DOOR INCLUDING HARDWARE AND EXISTING FRAME TO REMAIN.
26. CONTRACTOR TO DEMOLISH EXISTING MECHANICAL / PLUMBING EQUIPMENT IN ITS ENTIRETY INCLUDING EXISTING ASSOCIATED PIPING, WIRING, AND PITCH POCKET. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. PATCH AND REPAIR AS REQUIRED
27. EXISTING MECHANICAL EQUIPMENT TO REMAIN. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
28. EXISTING ROOF ACCESS HATCH TO REMAIN.
29. CONTRACTOR TO DEMOLISH PORTION OF EXISTING ROOF SYSTEM & DECKING TO EXPOSE EXISTING STRUCTURE. REFER TO PROPOSED ROOF PLAN & STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
30. EXISTING ROOF SYSTEM TO REMAIN.
31. CONTRACTOR TO DEMOLISH EXISTING ROOF SYSTEM AND INSULATION TO EXPOSE EXISTING ROOF DECK. CONTRACTOR TO REMOVE EXISTING ROOF DECK AND STRUCTURE AS REQUIRED FOR NEW SKYLIGHT. REFER TO PROPOSED ROOF PLAN AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
32. EXISTING CONCRETE CURB TO REMAIN, TYPICAL.
33. EXISTING COLUMN FOOTINGS TO REMAIN.
34. CONTRACTOR TO DEMOLISH EXISTING GLASS BLOCK PARTITION IN ITS ENTIRETY
35. CONTRACTOR TO DEMOLISH PORTION OF EXISTING SIDEWALK. SEE CIVIL DRAWINGS
36. CONTRACTOR TO DEMOLISH PORTION OF PAVEMENT FOR INSTALLATION OF NEW REINFORCED CONCRETE SLAB FOR NEW EQUIPMENT. SEE MEP AND CIVIL DRAWINGS
37. EXISTING DOOR TO REMAIN. PREPARE FOR NEW PAINT
38. EXISTING FREE STANDING WALL TO REMAIN. PREPARE FOR NEW PAINT ALL SIDES
39. EXISTING LOUVER TO REMAIN. PREPARE FOR NEW PAINT
40. CONTRACTOR TO DEMOLISH EXISTING FENCE IN ITS ENTIRETY. PATCH AND REPAIR AREAS OF PAVEMENT AS REQUIRED. SEE CIVIL DRAWINGS
41. CONTRACTOR TO DEMOLISH EXISTING BOLLARD IN ITS ENTIRETY. PATCH AND REPAIR PAVEMENT AS REQUIRED. SEE CIVIL DRAWINGS
42. CONTRACTOR TO DEMOLISH AREA OF FRAMED PLATFORM IN ITS ENTIRETY
43. EXISTING LOADING DOORS TO REMAIN. PREPARE FOR NEW PAINT
44. CONTRACTOR DEMOLISH EXISTING CONCRETE PAD. SEE CIVIL DRAWINGS
45. CONTRACTOR TO DEMOLISH EXISTING EXTERIOR MOUNTED ELECTRICAL DEVICE AND ALL ASSOCIATED CONDUIT. SEE ELECTRICAL DRAWINGS
46. EXISTING COLUMN COVERS TO REMAIN. PREPARE FOR NEW PAINT
47. EXISTING SIGNAGE TO REMAIN. PROTECT DURING CONSTRUCTION
48. EXISTING EXHAUST TO REMAIN U.O.N. PROTECT DURING CONSTRUCTION
49. EXISTING EXTERIOR LIGHT FIXTURE TO REMAIN U.O.N. PROTECT DURING CONSTRUCTION
50. EXISTING METAL RAILING TO REMAIN. PREPARE FOR NEW PAINT
51. CONTRACTOR TO DEMOLISH EXISTING EXTERIOR DOOR. EXISTING FRAME TO REMAIN. MODIFY AS REQUIRED TO RECEIVE NEW DOOR. PREPARE FRAME FOR NEW PAINT
52. EXISTING COPING TO REMAIN. PREPARE FOR NEW PAINT
53. CONTRACTOR TO DEMOLISH PORTION OF EXISTING CONCRETE FLOOR STRUCTURE TO ACCOMMODATE NEW MECHANICAL AND PLUMBING WORK. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL AND PLUMBING DRAWINGS, TYP. REINFORCE FLOOR STRUCTURE AS REQUIRED, SEE STRUCTURAL DRAWINGS
54. CONTRACTOR TO REMOVE PORTION OF EXISTING COPING AND ANY ASSOCIATED ROOFING AND BLOCKING AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW COPING. COORDINATE EXACT LOCATION WITH PROPOSED PLANS AND BUILDING ELEVATIONS
55. CONTRACTOR TO DEMOLISH EXISTING PAVEMENT AND EXCAVATE AS REQUIRED TO INSTALL NEW CONDUIT. SEE ELECTRICAL AND CIVIL DRAWINGS.
56. EXISTING ROOF DRAIN LEADER TO REMAIN.
57. CONTRACTOR TO PROVIDE NEW PIT FOR NEW EQUIPMENT. COORDINATE ACTUAL OPENING SIZE, LOCATION, AND DEPTH WITH EQUIPMENT AND STRUCTURAL REQUIREMENTS. SEE STRUCTURAL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION
58. CONTRACTOR TO REMOVE PORTION OF EXISTING GWB AND FRAMED WALL FURRING BACK TO EXISTING CMU TO ACCOMMODATE INSTALLATION OF NEW SIGN SUPPORT. SEE STRUCTURAL DRAWINGS FOR FRAMING PLAN AND SECTION, TYPICAL OF (2) LOCATIONS
59. CONTRACTOR TO MAKE NEW OPENINGS IN EXISTING CMU WALL FOR NEW SIGN SUPPORT. SEE STRUCTURAL DRAWINGS FOR FRAMING PLAN AND SECTION, TYPICAL OF (2) LOCATIONS
60. CONTRACTOR TO DEMOLISH PORTION OF EXISTING ROOF TO ACCOMMODATE NEW MECHANICAL AND PLUMBING WORK. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL AND PLUMBING DRAWINGS, TYP. REINFORCE ROOF STRUCTURE AS REQUIRED, SEE STRUCTURAL DRAWINGS

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DEMOLITION KEY NOTES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A100

A1.00

SECOND FLOOR
4 A1.30

N.I.C.

N.I.C.

EXISTING RETAIL TENANT AREA

EXISTING GYM TENANT AREA

EXISTING RETAIL TENANT AREA
103

EXISTING OTB TENANT AREA
104

HATCHED AREA INDICATES POTENTIAL LOCATION OF TRENCHING FOR PLUMBING AND ELECTRICAL. SHOWN FOR REFERENCE ONLY. COORDINATE ALL REQUIREMENTS WITH PLUMBING AND ELECTRICAL WORK

HATCHED AREA

HATCHED AREA

STOREFRONT & SOFFIT ABOVE

30'-0" TYPICAL ON CENTER

20'-0" TYPICAL ON CENTER

COORD. W/ CIVIL DRAWINGS

COORD. WITH CIVIL DWGS

TYP.

TYP.

2 A1.30

3 A1.30

1 A1.30

1 A1.01 First Floor Demolition Plan

3/32" = 1'-0"

PROJECT NORTH

NOTE: REFER TO SHEET **A1.00** FOR DEMOLITION KEY NOTES

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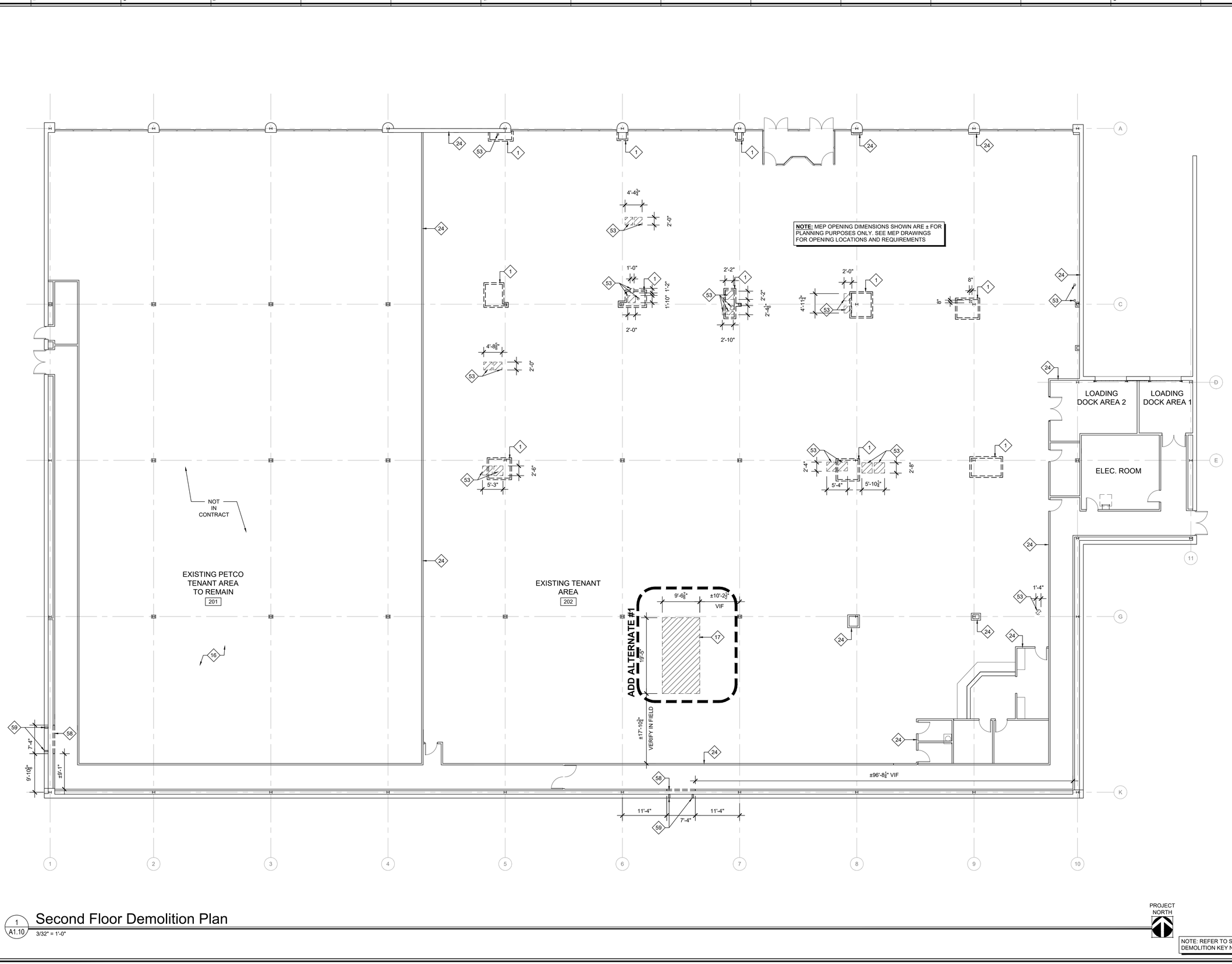
FIRST FLOOR DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A101

A1.01



1 A1.10 Second Floor Demolition Plan

3/32" = 1'-0"

NOTE: REFER TO SHEET **A1.00** FOR DEMOLITION KEY NOTES

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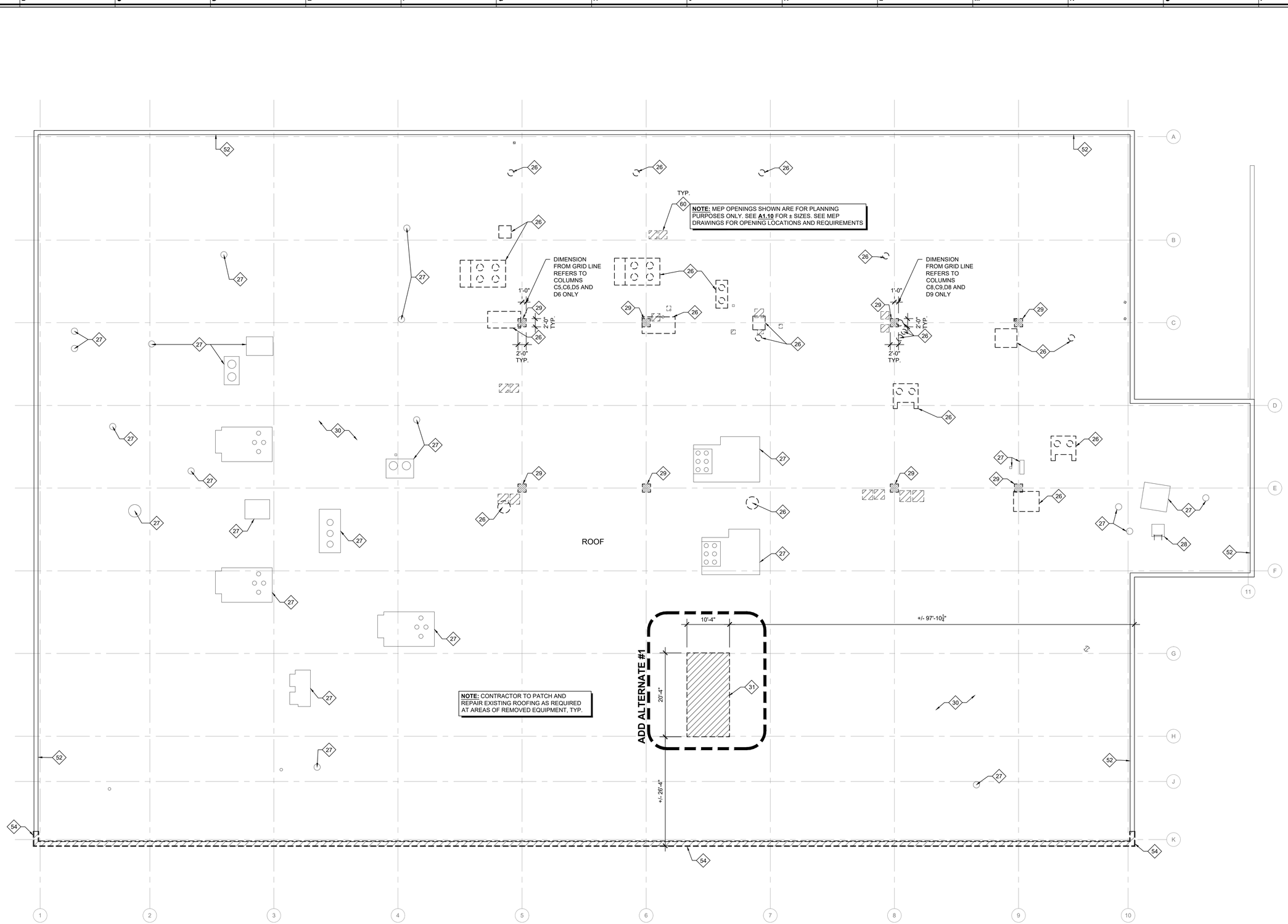
SECOND FLOOR DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A110

A1.10



1 A1.20 Roof Demolition Plan

3/32" = 1'-0"

PROJECT NORTH

NOTE: REFER TO SHEET **A1.00** FOR DEMOLITION KEY NOTES

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ROOF DEMOLITION PLAN

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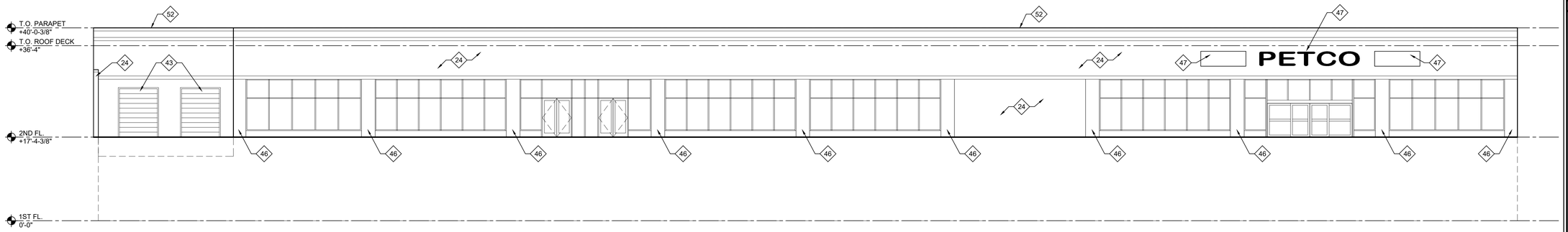
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

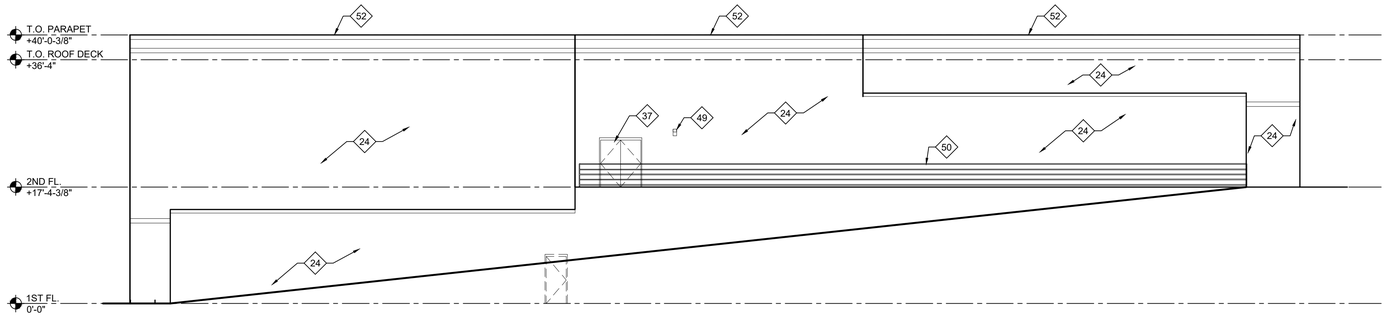
File No. 4155201A120

A1.20



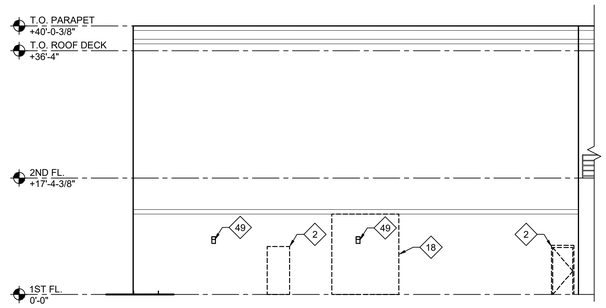
4 A1.30 — Existing North Elevation w/ Demolition

3/32" = 1'-0"



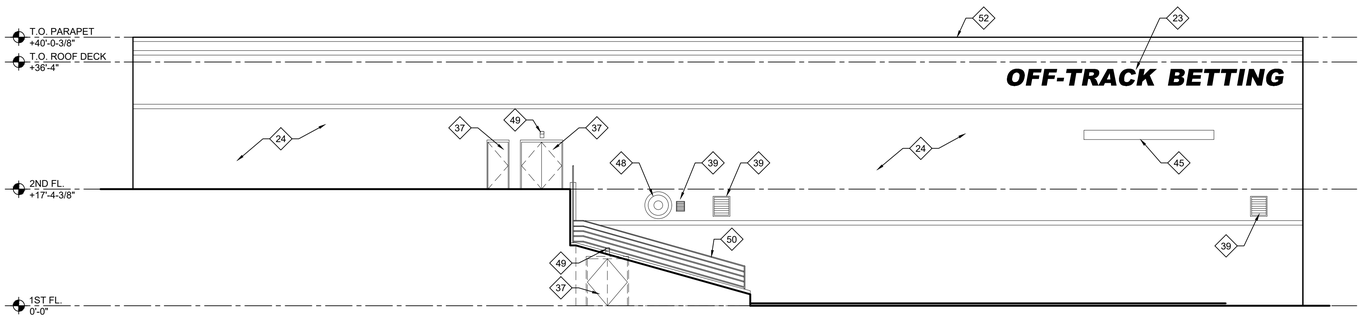
3 A1.30 — Existing East Elevation w/ Demolition

3/32" = 1'-0"



5 A1.30 — Partial Existing East Elevation w/ Demolition

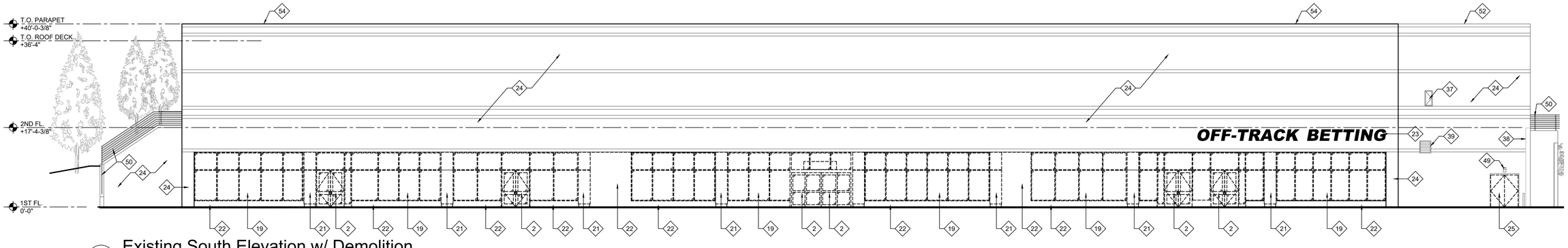
3/32" = 1'-0"



2 A1.30 — Existing West Elevation w/ Demolition

3/32" = 1'-0"

NOTE: REFER TO SHEET **A1.00** FOR DEMOLITION KEY NOTES



1 A1.30 — Existing South Elevation w/ Demolition

3/32" = 1'-0"

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DEMOLITION ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A130

A1.30

Scope Responsibility Note

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OWNER TO PROVIDE, **OWNER** TO INSTALL UNLESS OTHERWISE NOTED:

- **LOBBY TREE & PLANTER, MISC. PLANTERS, INTERIOR PLANTS, EXTERIOR PLANTS WITHIN NEW PLANTERS, MOSS AREAS** (CONTRACTOR TO PROVIDE BLOCKING FOR SUPPORT AS REQUIRED). **WATER FEATURES** (CONTRACTOR TO PROVIDE INFRASTRUCTURE AS INDICATED ON THE DRAWINGS); CONTACT: YOGI DAVIS (845) 421-0707
- **CUSTOM SIGNAGE WITHIN WATER FEATURE**
- **AV ITEMS** (CONTRACTOR TO PROVIDE CONDUIT, POWER, AND BLOCKING AS REQUIRED); CONTACT: HUDSON VALLEY AUDIO VISUAL (845) 797-7000
- **SECURITY ITEMS** (CONTRACTOR TO PROVIDE CONDUIT, POWER, AND BLOCKING AS REQUIRED); CONTACT: N.A.S. SECURITY SYSTEMS, INC. (845) 342-4400
- **SELF-SERVE TAP SYSTEM** (CONTRACTOR TO PROVIDE INFRASTRUCTURE AS INDICATED ON THE DRAWINGS)
- **TAPS, AND DRIP TRAYS** (CONTRACTOR TO PROVIDE INFRASTRUCTURE AS INDICATED ON THE DRAWINGS)
- **CUSTOM BUILDING SIGNAGE** (CONTRACTOR TO PROVIDE INFRASTRUCTURE AS INDICATED ON THE DRAWINGS)
- **CANNING EQUIPMENT;** CONTACT: CODI MANUFACTURING (303) 330-6019
- **FURNITURE**
- **GAME ROOM FURNISHINGS**

OWNER TO PROVIDE **CONTRACTOR** TO INSTALL UNLESS OTHERWISE NOTED:

- **BREWING EQUIPMENT;** CONTACT: ALPHA BREWING OPERATIONS (402) 467-1218
- **CUSTOM CHANDELIER LIGHTING (3) LOCATIONS WITHIN CONFERENCE ROOM**

Construction General Notes

1. **DIMENSIONS SHOWN ARE FROM FACE OF FINISH MATERIALS UNLESS NOTED OTHERWISE.**
2. CONTRACTOR SHALL INSTALL THROUGH-PENETRATION FIRESTOPS, DRAFT-STOPS, FIRE CAULKING, ETC. AS REQUIRED AT ALL CEILING/WALL PENETRATIONS TO ENSURE THE STRUCTURAL INTEGRITY AND CONT. FIRE RATING OF THE ASSEMBLY. (COORDINATE WITH PARTITION TYPES AS REQUIRED.) REFER TO PARTITION TYPES AND FIRESTOPPING DETAILS FOR ADDITIONAL INFORMATION.
3. SEAL TOP OF ALL PARTITIONS. FILL ALL VOIDS WITH ACOUSTIC SEALANT CONTINUOUS. (COORDINATE WITH PARTITION TYPES AS REQUIRED.)
4. CONTRACTOR SHALL PROVIDE WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF ALL WALL MOUNTED EQUIPMENT AND CASEWORK, TYP. PROVIDE P.T. WOOD BLOCKING IN TOILET ROOMS, TYP.

Legend

(REFER TO DEMOLITION & PROPOSED FLOOR PLANS)

PROPOSED	
SYMBOL	DESCRIPTION
	NEW CONSTRUCTION (FRAMING)
	EXISTING WALLS TO REMAIN
	NEW DOORS

DUCTWORK REMOVAL PATCH NOTE:

CONTRACTOR TO PATCH HOLES LEFT DUE TO REMOVAL OF DUCTWORK ETC. IN MASONRY AND OTHER WALL/FLOOR/CEILING CONSTRUCTION WITH NEW MATERIAL TO MATCH EXISTING. PAINT TO MATCH ADJACENT SURFACES WHERE APPLICABLE.

CUSTOM CABINETRY NOTE: CONTRACTOR TO FURNISH AND INSTALL NEW CUSTOM CABINETRY AND MILLWORK WHERE INDICATED. ALL FINISH PLYWOOD TO BE ¾" CABINET GRADE UNLESS OTHERWISE NOTED WITH SOLID WOOD EDGING WHERE EXPOSED UNLESS OTHERWISE NOTED. SOLID WOOD ITEMS TO MATCH. SAND AND FINISH ALL EXPOSED SURFACES. PLYWOOD VENEER AND SOLID WOOD SPECIES AND FINISH TO BE SELECTED BY OWNER. EASE EDGES, TYPICAL. CONSTRUCTION TO BE MECHANICALLY FASTENED AND GLUED, TYPICAL. COUNTERTOPS TO BE 1" THICK SOLID SURFACE, TYPICAL UNLESS OTHERWISE NOTED, FINISH TO BE SELECTED FROM MANUFACTURERS FULL RANGE. CONTRACTOR TO PROVIDE ALL PULLS AND HARDWARE, SELECTED BY OWNER. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL PRIOR TO FABRICATION. RUN FLOOR FINISH UNDER CUSTOM CABINETRY AND MILLWORK IN ALL LOCATIONS.

Construction Key Notes

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. CONTRACTOR TO PROVIDE AND INSTALL NEW FINISH FLOORING OVER PREPARED SUB-FLOOR. SEE FLOOR FINISH PLANS, AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO PROVIDE AND INSTALL 8'H x 4'W FIBERGLASS-REINFORCED PLASTIC (FRP) PANELS AT ENTIRE PERIMETER OF BREWERY AREAS. SEE FINISH SCHEDULE. PROVIDE FRP PANELS WITH MANUFACTURER'S RECOMMENDED CAP, CORNER MOLDING, JOINT COVERS, AND ALL REQUIRED ACCESSORIES. PREPARE WALL SURFACE AND INSTALL PER MANUFACTURER RECOMMENDATION. COLOR PER OWNER'S SELECTION.
3. CONTRACTOR TO PROVIDE AND INSTALL NEW REINFORCED CONCRETE SLAB AT LOCATION INDICATED UNDER NEW BREWING TANKS. SEE STRUCTURAL DRAWINGS FOR LOCATION, REINFORCING & CONCRETE INFORMATION
4. CONTRACTOR TO PROVIDE AND INSTALL NEW TRENCH DRAINS IN CONCRETE FLOOR. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR TO FURNISH AND INSTALL NEW COMPLETE ELECTRIC DRIVE OVERHEAD SECURITY GRILLE SYSTEM (INCLUDING ALL REQUIRED STRUCUTRAL STEEL. BASIS OF DESIGN IS BETWEEN JAMB MOUNT, MODEL #670 BY 'OVERHEAD DOORS' WITH RMX MOTOR. REFER TO WALL SECTION 1/A4.10 FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE AND INSTALL NEW STRUCTURAL SKYLIGHT, MODEL "RIDGE QUADWALL" - EXTENDED PYRAMID BY 'CPI DAYLIGHTING.' NEW SKYLIGHT TO BE INSTALLED ON NEW ROOF CURB. SEE ROOFING DETAILS AND WALL SECTIONS FOR ADDITIONAL INFORMATION. SEE MINIMUM ENERGY CODE REQUIREMENTS ON **A6.01** (ALL DEMOLITION/CONSTRUCTION WORK ASSOCIATE WITH NEW SKYLIGHT AND LIGHTWELL IS PART OF **ADD ALTERNATE #1**).
7. CONTRACTOR TO PROVIDE AND INSTALL NEW STEEL EQUIPMENT DUNNAGE AND PLATFORM ABOVE EXISTING ROOF. CONTRACTOR TO REMOVE EXISTING ROOFING AS REQUIRED TO CONNECT NEW STEEL DUNNAGE TO EXISTING BUILDING STRUCTURE. NEW STEEL TO BE PAINTED WITH 'SHERWIN WILLIAMS' MACROPOXY 646 PAINT WITH MANUFACTURER'S RECOMMENDED PRIMER. (1) PRIMER COAT & (2) FINISH COATS. COLOR PER OWNER. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. CONTRACTOR TO PROVIDE AND INSTALL NEW STEEL ACCESS LADDER TO EQUIPMENT PLATFORM. PAINT WITH 'SHERWIN WILLIAMS' MACROPOXY 646 PAINT WITH MANUFACTURER'S RECOMMENDED PRIMER. (1) PRIMER COAT & (2) FINISH COATS. COLOR PER OWNER. PROVIDE NON-SLIP SURFACE AR RUNGS, TYP. LADDER TO EXTEND PAST T.O. PLATFORM MINIMUM OF 3'-0".
9. CONTRACTOR TO PROVIDE AND INSTALL NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. CONTRACTOR TO PROVIDE AND INSTALL NEW CONDENSING UNITS FOR REFRIGERATION EQUIPMENT. NEW CONDENSING UNITS TO BE INSTALLED ON NEW ROOF CURBS & FLASHED INTO EXISTING ROOF. GROUP LINES FROM MULTIPLE NEARBY UNITS AND DROP THROUGH ADJACENT SHAFT ENCLOSED DUCT DROPS. COORDINATE FINAL LOCATION IN THE FIELD. SEE MECHANICAL DRAWINGS & ROOFING DETAILS FOR ADDITIONAL INFORMATION.
11. CONTRACTOR TO PROVIDE AND INSTALL NEW POLYISO ROOF INSULATION & FLASHING AROUND NEW STRUCTURAL STEEL. T.O. NEW INSULATION TO BE FLUSH WITH T.O. ADJACENT INSULATION, PROVIDING POSITIVE PITCH AS REQUIRED TO EXISTING ROOF DRAINS. SEE ROOFING DETAILS FOR ADDITIONAL INFORMATION.
12. CONTRACTOR TO PROVIDE AND INSTALL NEW PLANTER. CUSTOM PLANTER 7'-6" W. X 1'-4" D. X 3'-0" H. BOX WITH 6" HIGH TOE KICK WITH SQUARE INNER RETURN LIP AND CORTEN FINISH. PROVIDE DRAINAGE INTO GRAVEL BED. PLANTER BED SHALL BE AS MANUFACTURED BY "DECO PLANTERS" (732) 813-7500 (BASIS OF DESIGN)
13. CONTRACTOR TO PROVIDE AND INSTALL NEW EXTERIOR GRADE TILE AT OUTDOOR SEATING 101A & 101B, AND MAIN ENTRANCE 100. PROVIDE AND INSTALL ADA TRANSITIONS AS REQUIRED. PREPARE CONCRETE SUBFLOOR IN THE AREA PER MANUFACTURERS INSTRUCTIONS. PROVIDE POSITIVE PITCH AWAY FROM BUILDING. SEE FINISH PLAN AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
14. CONTRACTOR TO PROVIDE AND INSTALL NEW COUNTER-HEIGHT FOLDING PARTITION. BASIS OF DESIGN MODEL 'SL70' BY 'NANAWALL'. SEE WINDOW SCHEDULE & WINDOW TYPES FOR ADDITIONAL INFORMATION.
15. LINE OF SKYLIGHT OPENING ABOVE. SEE SECOND FLOOR PLAN ON DRAWING A2.10 & ROOF PLAN ON A2.20 FOR ADDITIONAL INFORMATION. (ALL DEMOLITION/CONSTRUCTION WORK ASSOCIATED WITH SKYLIGHT AND LIGHTWELL IS PART OF **ADD ALTERNATE #1** .)
16. NEW BREWING EQUIPMENT & TANKS TO BE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO COORDINATE CONSTRUCTION WITH BREWING EQUIPMENT REQUIREMENTS. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. LOCATION OF FUTURE BREWING EQUIPMENT FOR REFERENCE ONLY.
18. CONTRACTOR TO PROVIDE AND INSTALL NEW REINFORCED CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
19. CONTRACTOR TO PROVIDE AND INSTALL NEW WALK-IN COOLER & ALL ASSOCIATED ELECTRICAL, PIPING, CONDENSERS, EVAPORATIVE UNITS, ETC. AS REQUIRED FOR A FULL AND COMPLETE INSTALLATION. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
20. CONTRACTOR TO PROVIDE AND INSTALL NEW WALK-IN FREEZER & ALL ASSOCIATED ELECTRICAL COMPONENTS, PIPING, CONDENSERS, EVAPORATIVE UNITS, ETC. AS REQUIRED FOR A FULL AND COMPLETE INSTALLATION. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
21. CONTRACTOR TO PROVIDE AND INSTALL NEW GLASS DOOR BEVERAGE COOLERS. COORDINATE REQUIREMENTS WITH OWNER
22. CONTRACTOR TO PROVIDE AND INSTALL NEW WALK-IN COOLER GLASS DOOR INTEGRATED BEVERAGE COOLER BEHIND NEW BAR 104. COORDINATE REQUIREMENTS WITH OWNER
23. CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM BAR WITH COUNTER BEHIND BAR. SEE ENLARGED PLAN 2/A2.05 AND SECTIONS ON SHEET A9.11 FOR ADDITIONAL INFORMATION.
24. CONTRACTOR TO PROVIDE AND INSTALL NEW KITCHEN EQUIPMENT, VENT HOODS, DISHWASHING EQUIPMENT, ETC. AS INDICATED ON THE PROPOSED FOOD SERVICE PLANS. REFER TO FOOD SERVICE PLANS AS WELL AS MEP DRAWINGS FOR ADDITIONAL INFORMATION.
25. CONTRACTOR TO PROVIDE AND INSTALL NEW BUILT-IN CASEWORK / MILLWORK. REFER TO FURNISHING PLAN **A9.10** & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
26. CONTRACTOR TO PROVIDE AND INSTALL BUILT-IN SHELVING UNITS AT COOLER WALL. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
27. NEW OUTDOOR WATER FEATURE BY OWNER. CONTRACTOR TO PROVIDE AND INSTALL ITEMS AS SHOWN ON ELECTRICAL & PLUMBING DRAWINGS.
28. NEW CUSTOM INDOOR WATER FEATURE. SEE SECTIONS AND DETAILS ON A4.20 FOR ITEMS TO BE PROVIDED AND INSTALLED BY CONTRACTOR. REFER TO ELECTRICAL & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
29. CONTRACTOR TO PROVIDE AND INSTALL (2) NEW INDOOR, VENTLESS, NATURAL GAS, FIRE PLACES, BASIS OF DESIGN MODEL 'FIRE RIBBON VENT FREE VU THRU MODEL 59' BY 'SPARK MODERN FIREPLACES'. SEE INTERIOR ELEVATIONS, SHEET **A4.20**, AS WELL AS ELECTRICAL & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
30. CONTRACTOR TO PROVIDE AND INSTALL NEW SINK. SEE PLUMBING FIXTURE SCHEDULE & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
31. CONTRACTOR TO PROVIDE AND INSTALL NEW MATCHING HORIZONTAL HINGED DOOR IN BAR TOP & AS REQUIRED TO PROVIDE ACCESS TO BAR AREA. LEAF LENGTH TO BE 3'-6"L AND WIDTH OF BAR TOP.
32. NEW DRIP TRAY TO BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR TO COORDINATE ALL REQUIREMENTS INCLUDING DRAINAGE PIPING LOCATIONS IN BUILT-IN ITEMS. COORDINATE ALL REQUIREMENTS. SEE SECTIONS, INTERIOR ELEVATIONS, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
33. NEW SELF-SERVE TAP SYSTEM TO BE PROVIDED WITH (44) BEER TAPS & (3) WATER DISPENSERS PROVIDED AND INSTALLED BY OWNER. CONTRACTOR TO PROVIDE AND INSTALL INFRASTRUCTURE FOR SELF-SERVE TAP SYSTEM AS REQUIRED BY MANUFACTURER, INCLUDING BUT NOT LIMITED TO POWER SUPPLY, DOMESTIC WATER, WASTE PIPING, DATA CABLING, RFID SCANNERS & INFORMATION SCREENS AS REQUIRED. NEW WALK-IN COOLER TO BE MODIFIED AS REQUIRED FOR INSTALLATION OF TAPS. ALL TAP HANDLES & RFID SCANNERS TO BE PLACED WITH ADA REACH RANGE. FINAL TAP CONFIGURATION TO BE VERIFIED BY OWNER. SEE SECTION 1/A4.20, ELECTRICAL & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
34. CONTRACTOR TO PROVIDE AND INSTALL SOFFIT ABOVE COOLER DOOR. SEE INTERIOR ELEVATIONS.
35. CONTRACTOR TO PROVIDE AND INSTALL NEW DUCTWORK FOR NEW MECHANICAL SYSTEMS. SEE PROPOSED MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
36. CONTRACTOR TO PROVIDE AND INSTALL NEW GENERATOR ON NEW REINFORCED CONCRETE PAD. SEE ELECTRICAL DRAWINGS, STRUCTURAL, AND SITE DRAWINGS FOR ADDITIONAL INFORMATION.
37. CONTRACTOR TO PRIME AND PAINT EXISTING SPLIT-FACE CMU WALLS AND COLUMN ENCLOSURES. PROVIDE (1) PRIMER COAT AND (2) FINISH COATS. CONTRACTOR TO PROVIDE FOR A (2) COLOR SCHEME, TYPICAL. PREPARE SURFACE AND APPLY PAINT PER MANUFACTURER INSTRUCTIONS.
38. CONTRACTOR TO PROVIDE AND INSTALL NEW FIBER CEMENT PANEL SYSTEM ON ALUMINUM SUBFRAME WITH INTEGRATED WALL-WASH LIGHTING. FIBER CEMENT SIDING BASIS OF DESIGN TO BE 'LARGO CARAT' BY 'SWISSPEARL.' WITH EXPOSED SCREW-STYLE COLOR MATCHED FASTENERS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING WALL-WASH LIGHTING.
39. CONTRACTOR TO PROVIDE AND INSTALL CUSTOM PERFORATED FIBER CEMENT PANEL RAINSCREEN SYSTEM ON ALUMINUM SUBFRAME, BASIS OF DESIGN MODEL 'LARGO CARAT' BY 'SWISSPEARL.' WITH EXPOSED SCREW-STYLE COLOR MATCHED FASTENERS. PANELS TO BE BACK-LIT WITH LED LIGHTING. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
40. NEW CORTEN STEEL SIGNAGE TO BE PROVIDED AND INSTALLED BY OWNER. NEW SIGN TO BE BACK-LIT WITH LED LIGHTING. CONTRACTOR TO PROVIDE AND INSTALL NEW STEEL THROUGH-WALL SUPPORT. SEE STRUCTURAL DRAWINGS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
41. CONTRACTOR TO PROVIDE AND INSTALL FIBER CEMENT PANELS ON ALUMINUM SUBFRAME, BASIS OF DESIGN MODEL 'LARGO CARAT' BY 'SWISSPEARL' (917) 584 - 7548; WITH COLOR MATCHED EXPOSED SCREW-STYLE FASTENERS TO WRAP CORNER OF BUILDING.
42. OWNER TO PROVIDE AND INSTALL AREA OF CUSTOM MOSS WALL. CONTRACTOR TO PROVIDE AND INSTALL BLOCKING AS REQUIRED. COORDINATE ALL REQUIREMENTS.
43. OWNER TO PROVIDE AND INSTALL TELEVISIONS AND MOUNTS. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY POWER RECEPTACLES AND DATA OUTLETS. CONTRACTOR TO PROVIDE AND INSTALL BLOCKING AS REQUIRED. COORDINATE ALL REQUIREMENTS AND FINAL LOCATIONS WITH OWNER. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
44. CONTRACTOR TO PROVIDE AND INSTALL NEW ¾ X 8 WHITE OAK TRIM AT PERIMETER OF TAP WALLS. STAIN, COLOR TO BE SELECTED BY OWNER.
45. CONTRACTOR TO PROVIDE AND INSTALL NEW LIGHT FIXTURE. **BASE BID:** LIGHT FIXTURE AS INDICATED ON ELECTRICAL PROPOSED LIGHTING PLAN. **ALLOWANCE #1:** CONTRACTOR TO PROVIDE AND INSTALL CUSTOM LIGHT FIXTURE AS PART OF ALLOWANCE #1. COORDINATE DESIGN OF CUSTOM FIXTURE WITH OWNER. CONTRACTOR TO PROVIDE CREDIT FOR BASE BID DESIGN. SEE SPEC SECTION **012100**. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
46. CONTRACTOR TO INFILL / MODIFY EXISTING OPENINGS WITHIN DEMOLISHED CHASE (AREA SHOWN HATCHED) VERIFY OPENINGS IN FIELD. SEE TYPICAL CONCRETE FLOOR INFILL DETAIL ON STRUCTURAL DRAWINGS
47. CONTRACTOR TO INFILL / MODIFY EXISTING OPENINGS IN ROOF STRUCTURE AT REMOVED DUCTWORK AND PLUMBING (AREA SHOWN HATCHED) VERIFY OPENINGS IN FIELD. SEE TYPICAL ROOF PATCHING DETAILS ON **A8.10**. SEE TYPICAL ROOF OPENING CLOSURE DETAIL ON STRUCTURAL DRAWINGS
48. CONTRACTOR TO INSTALL NEW PIPE PORTAL. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL AND ELECTRICAL REQUIREMENTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS
49. CONTRACTOR TO PROVIDE AND INSTALL NEW MECHANICAL DUCTWORK. WRAP ALL NEW DUCTWORK WITH EPDM, TYP. SEE TYPICAL DETAILS ON MECHANICAL DRAWINGS. LAYOUT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DUCT LAYOUT AND ADDITIONAL INFORMATION
50. CONTRACTOR SHALL FURNISH AND INSTALL NEW ALUMINUM COPING. SEE COPING DETAIL **5/A4.11** FOR ADDITIONAL INFORMATION. NEW COPING SHALL EXTEND PAST ALL NEW EXTENTS OF FIBER CEMENT SIDING AT ALL LOCATIONS AND SHALL ALSO OVERLAP EXISTING COPING 1'-6" MIN. AT BUILDING CORNERS.
51. CONTRACTOR TO SAND, PRIME AND PAINT EXISTING INTERIOR CONCRETE BLOCK WALL
52. CONTRACTOR TO PROVIDE AND INSTALL NEW PH NEUTRALIZATION SYSTEM. SEE PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS
53. CONTRACTOR TO PROVIDE AND INSTALL NEW BOLLARDS. SEE CIVIL DRAWINGS
54. CONTRACTOR TO INFILL EXISTING OPENING IN EXISTING WALL WITH NEW MATERIAL LIKE IN KIND. MATCH EXISTING ADJACENT SPLIT FACE CMU. MATCH EXISTING WALL THICKNESS
55. EXISTING PORTION OF FIRE RATED WALL TO REMAIN. CONTRACTOR TO VERIFY EXISTING WALL MEETS (1) HOUR FIRE RATING REQUIREMENT. PATCH AND REPAIR AND INSTALL FIRESTOPPING AS REQUIRED TO MAINTAIN CONTINUOUS (1) HOUR FIRE BARRIER
56. CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM UPPER CABINET TO HOUSE FILTER ACCESS. SEE CUSTOM CABINETRY NOTE ON SHEET **A2.00**. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
57. CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM LOWER CABINET TO HOUSE DRAIN ACCESS. SEE CUSTOM CABINETRY NOTE ON SHEET **A2.00**. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
58. CONTRACTOR TO PROVIDE CONTINUOUS 2"x2" FINISHED GWB RECESS IN CEILING FOR NEW LIGHTING. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
59. RESERVED
60. CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE NEW STAINLESS STEEL "COLUMN TRELLIS" SYSTEM AS MANUFACTURED BY "JAKOB ROPE SYSTEMS" (561) 330 - 6502. EACH INDIVIDUAL TRELLIS SHALL BE COMPRISED OF TWELVE (12) ROPES @ 8" O.C.. ROPE STYLE SHALL BE "T3."
61. CONTRACTOR TO PROVIDE AND INSTALL NEW SIGN SUPPORT BACKUP FRAMING. PAINT ALL STEEL, COLOR TO BE SELECTED BY OWNER. INSTALL NEW WALL PARTITION, FINISH ALL JOINTS. WHERE NEW GWB ABUTS STEEL PROVIDE A J-BEAD AND JOINT WITH SEALANT. SEE STRUCTURAL DRAWINGS FOR FRAMING PLAN AND SECTION, TYPICAL OF (2) LOCATIONS
62. NEW TUBE STEEL OUTRIGGER SIGN SUPPORT. SEAL ALL VOIDS IN PENETRATION THROUGH EXISTING CMU WALL. SEE STRUCTURAL DRAWINGS FOR FRAMING PLAN AND SECTION, TYPICAL OF (2) LOCATIONS
63. CONTRACTOR TO PROVIDE AND INSTALL NEW 6" TALL CONCRETE CURB. SEE SECTIONS AND STRUCTURAL DRAWINGS
64. OWNER TO PROVIDE AND INSTALL NEW FURNITURE. FURNITURE SHOWN FOR PLANNING PURPOSES ONLY
65. CONTRACTOR TO PROVIDE AND INSTALL AREA OF NEW FINISHED GWB, PAINTED. SEE FINISH SCHEDULE AND FINISH PLANS FOR ADDITIONAL INFORMATION
66. CONTRACTOR TO PROVIDE AND INSTALL NEW WALL BASE. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION
67. CONTRACTOR TO PROVIDE AND INSTALL NEW SOLID WOOD TRIM, STAINED. SPECIES, STAIN COLOR AND FINISH TO BE SELECTED BY OWNER. EASE ALL EDGES, TYP.
68. AREA OF NEW WATER FEATURE SIGN TO BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR TO PROVIDE AND INSTALL PT WOOD BLOCKING WITHIN WALL AS REQUIRED. CONTRACTOR TO PROVIDE POWER TO SIGN LOCATION. COORDINATE FINAL LOCATION AND ALL REQUIREMENTS WITH OWNER
69. CONTRACTOR TO PREPARE AND PAINT ENTIRE CEILING STRUCTURE UNLESS OTHERWISE NOTED. SEE REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION
70. OWNER TO PROVIDE AND INSTALL NEW MIRROR. CONTRACTOR TO PROVIDE AND INSTALL BLOCKING AS REQUIRED
71. OWNER TO PROVIDE AND INSTALL INTERIOR PLANTS. SHOWN FOR REFERENCE ONLY
72. CONTRACTOR TO PROVIDE AND INSTALL NEW EMERGENCY SHOWER. SEE PLUMBING DRAWINGS
73. CONTRACTOR TO PROVIDE AND INSTALL NEW DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS
74. CONTRACTOR TO PROVIDE AND INSTALL NEW PLASTIC LAMINATE FINISHED LOCKERS WITH BENCH AS MANUFACTURED BY "YOUNG EQUIPMENT" (BASIS OF DESIGN) ALL FINISHES TO BE SELECTED BY OWNER. PROVIDE (1) ADA LABELED LOCKER, LOCATION AS SHOWN ON ELEVATION. SEE INTERIOR ELEVATIONS ON SHEET **A7.50**
75. OWNER TO PROVIDE AND INSTALL NEW TAPS. CONTRACTOR TO PROVIDE ROUGH OPENINGS AND BLOCKING AS REQUIRED. COORDINATE FINAL LOCATIONS AND ALL REQUIREMENTS WITH OWNER
76. OWNER TO PROVIDE AND INSTALL NEW TREE AND PLANTER. CONTRACTOR TO PROVIDE AND INSTALL SURROUNDING WALL AS SHOWN ON **A4.20** AS WELL AS PLUMBING AND ELECTRICAL ITEMS AS INDICATED ON THEIR RESPECTIVE DRAWINGS. COORDINATE ALL WORK AND REQUIREMENTS WITH OWNER
77. NEW PLANTER BOX TO BE PROVIDED AND INSTALLED BY OWNER. SHOWN FOR REFERENCE ONLY
78. CONTRACTOR TO PROVIDE AND INSTALL NEW METAL FRAMED OUTDOOR COUNTER. SEE SECTIONS FOR ADDITIONAL INFORMATION. PROVIDE NEW CURB, NEW TUBE STEEL FRAME, NEW WELDED COUNTER SUPPORT ANGLE, AND NEW STONE COUNTER TOP. COUNTER TOP TO BE 1½" THICK STONE, STYLE AND FINISH AS SELECTED BY OWNER. MECHANICALLY FASTEN SECURELY TO WELDED ANGLE. NO EXPOSED FASTENERS ON TOP FACE. PROVIDE SHOP DRAWINGS FOR ARCHITECT APPROVAL. PROVIDE AND INSTALL FIBER CEMENT PANEL RAINSCREEN SYSTEM FRONT, BACK, AND SIDES AS REQUIRED. (2) COLORS TO BE SELECTED BY ARCHITECT
79. CONTRACTOR TO PROVIDE AND INSTALL NEW PUMP STATION IN NEW PIT. SEE PLUMBING DRAWINGS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
80. CONTRACTOR TO PROVIDE AND INSTALL NEW SOLIDS INTERCEPTOR IN NEW PIT. INTEGRAL MANHOLE COVER TO BE FLUSH WITH SURROUNDING FINISH FLOOR. SEE PLUMBING DRAWING AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
81. CONTRACTOR TO PROVIDE AND INSTALL NEW INTEGRAL 72" x 96" INSULATED SLIDING DOOR AT NEW COOLER IN THIS LOCATION. PROVIDE ALL SEALS AND ACCESSORIES FOR A COMPLETE INSTALLATION
82. CONTRACTOR TO PROVIDE AND INSTALL NEW CASEWORK. PROVIDE 1" THICK SOLID SURFACE COUNTER TOP WITH 4" TALL BACKSPLASH AT ALL LOCATIONS. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE. SEE CASEWORK DESIGN NOTE ON **A7.02** FOR ADDITIONAL INFORMATION. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
83. CONTRACTOR TO PREPARE AND PAINT EXISTING COPING. COLOR TO BE SELECTED BY OWNER
84. CONTRACTOR TO PREPARE AND PAINT EXISTING RAILING. COLOR TO BE SELECTED BY OWNER
85. CONTRACTOR TO PREPARE AND PAINT EXISTING LOUVER. COLOR TO BE SELECTED BY OWNER
86. CONTRACTOR TO PREPARE AND PAINT EXISTING DOOR AND FRAME. COLOR TO BE SELECTED BY OWNER
87. CONTRACTOR TO PREPARE AND PAINT EXISTING LOADING DOOR. COLOR TO BE SELECTED BY OWNER
88. CONTRACTOR TO PROVIDE AND INSTALL NEW 1'-8" x 3'-6" STAINLESS STEEL ADA BENCH. PROVIDE STAINLESS STEEL WALL BRACKETS AND BLOCKING WITHIN WALL AS REQUIRED

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:

	PERMIT SET
1	10/15/21

LAN ASSOCIATES LLP
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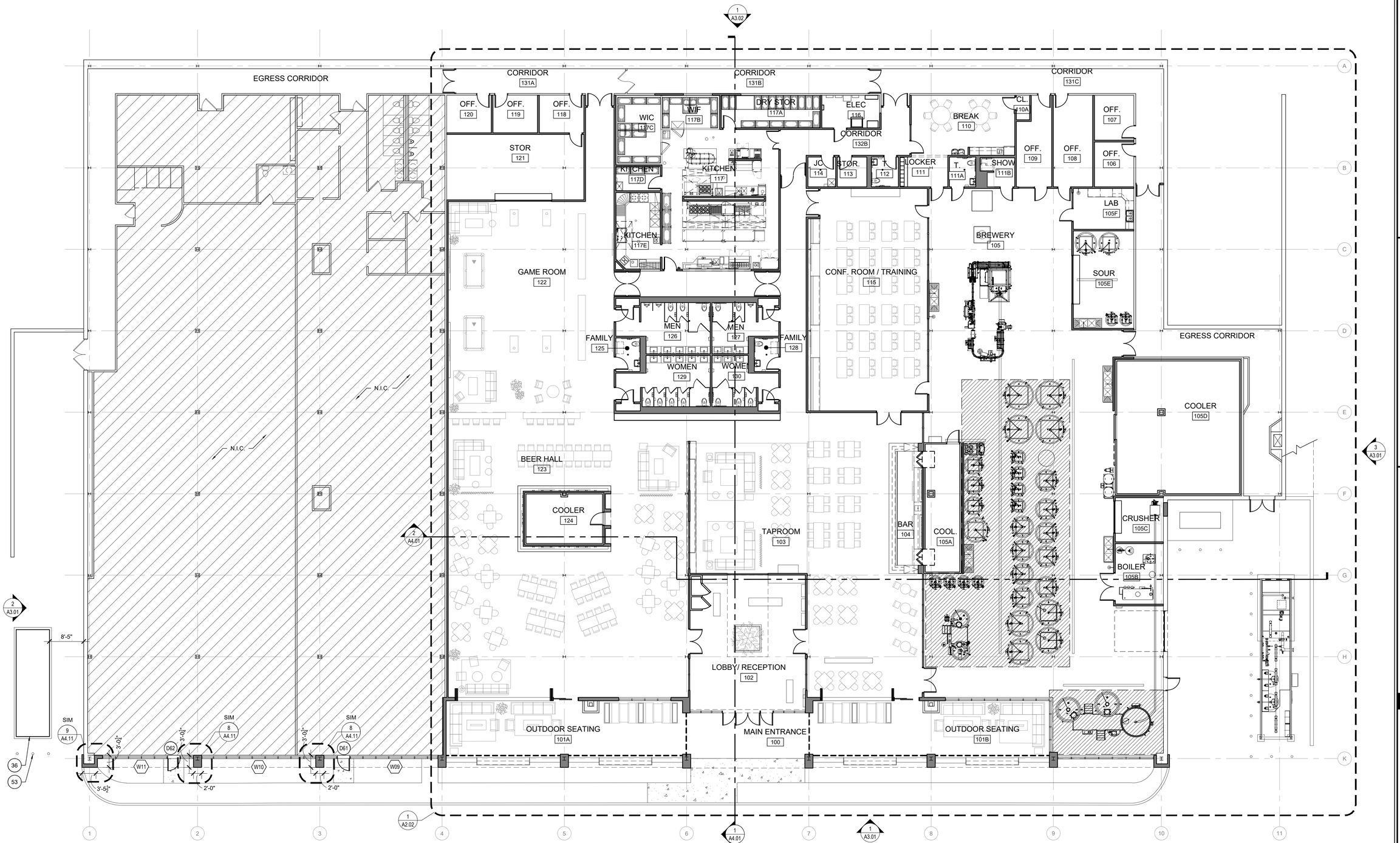
CONSTRUCTION KEY NOTES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A200

A2.00



1 A2.01 **Proposed First Floor Plan**

3/32" = 1'-0"

PROJECT NORTH

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

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Drawn	CC

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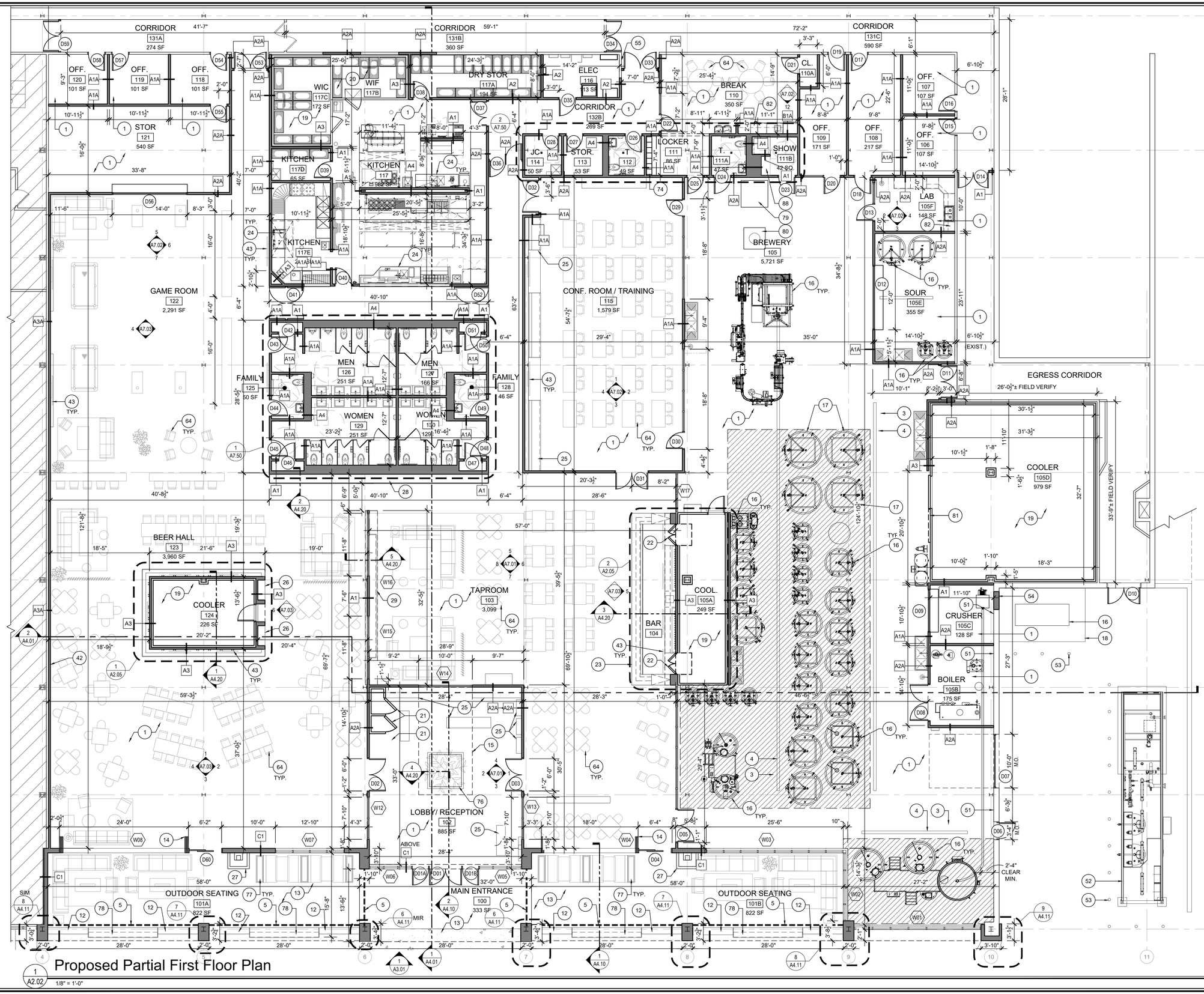
PROPOSED FIRST FLOOR PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A201

A2.01



Proposed Partial First Floor Plan

1/8" = 1'-0"

NOTE: SEE FURNISHING PLAN **A9.10** FOR MILLWORK ITEMS

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

Date	10/15/21
Checked	CTB
Drawn	CC

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252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

PROPOSED PARTIAL FIRST FLOOR PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A201

A2.02

CORRIDOR 131A 274 SF
OFF. 120 101 SF
OFF. 119 101 SF
OFF. 118 101 SF
STOR 121 540 SF
CORRIDOR 131B 360 SF
WIC 117C 172 SF
WIF 117B
DRY STOR 117A 194 SF
ELEC 116 113 SF
CORRIDOR 132B 269 SF
KITCHEN 117D 65 SF
KITCHEN 117 962 SF
KITCHEN 117E 204 SF
JO 114 50 SF
STOR. 113 53 SF
112 49 SF
LOCKER 111 86 SF
BREAK 110 350 SF
CL. 110A
111A 47 SF
SHOW. 111B 42 SQ.
CORRIDOR 131C 590 SF
OFF. 109 171 SF
OFF. 108 217 SF
OFF. 107 107 SF
OFF. 106 107 SF
LAB 105E 148 SF
79
80
BREWERY 105 5721 SF
GAME ROOM 122 2,291 SF
CONF. ROOM / TRAINING 115 1,579 SF
SOUR 105E 355 SF
MEN 126 251 SF
MEN 127 166 SF
FAMILY 125 50 SF
FAMILY 128 46 SF
WOMEN 129 251 SF
WOMEN 130 129 SF
EGRESS CORRIDOR
26'-6"
12'-0"
4'-0"
COOLER 105D 979 SF
HATCHED AREA INDICATES POTENTIAL LOCATION OF TRENCHING FOR PLUMBING AND ELECTRICAL. SHOWN FOR REFERENCE ONLY. COORDINATE ALL REQUIREMENTS WITH PLUMBING AND ELECTRICAL WORK
BEER HALL 123 3,960 SF
COOLER 124 226 SF
TAPROOM 103 3,099
COOL. 105A 248 SF
BAR 104
70'-6"
CRUSHER 105C 128 SF
BOILER 105B 175 SF
COORDINATE NEW AREAS OF SLAB WITH NEW FLOORING REQUIREMENTS, TYP. PREPARE NEW AND EXISTING SURFACE TO PROVIDE A SEAMLESS TRANSITION AT EXPOSED AREAS
23'-0"
35'-4"
5'-0"
5'-8"
28'-0"
15'-10"
AREA OF NEW REINF. SLAB. SEE STRUCT.
LOBBY/ RECEPTION 102 885 SF
SIM
OUTDOOR SEATING 101A 822 SF
MAIN ENTRANCE 100 333 SF
MIR
OUTDOOR SEATING 101B 822 SF
PROJECT NORTH
NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

1 A2.03 Proposed Partial First Floor Slab Plan
1/8" = 1'-0"

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
The REGISTERED ARCHITECT License No. 32407

Revisions:
1 PERMIT SET 10/15/21

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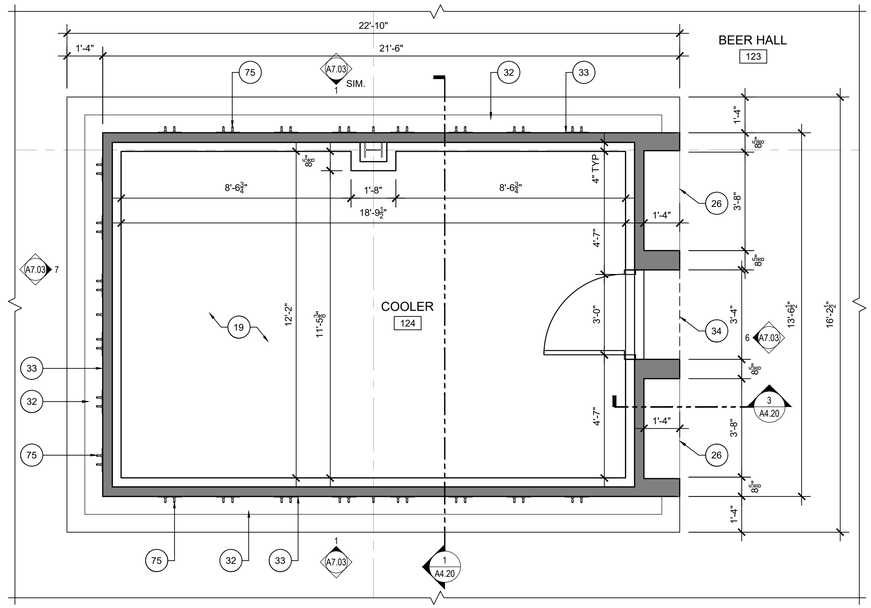
PROP. PART. FIRST FLOOR SLAB PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A203

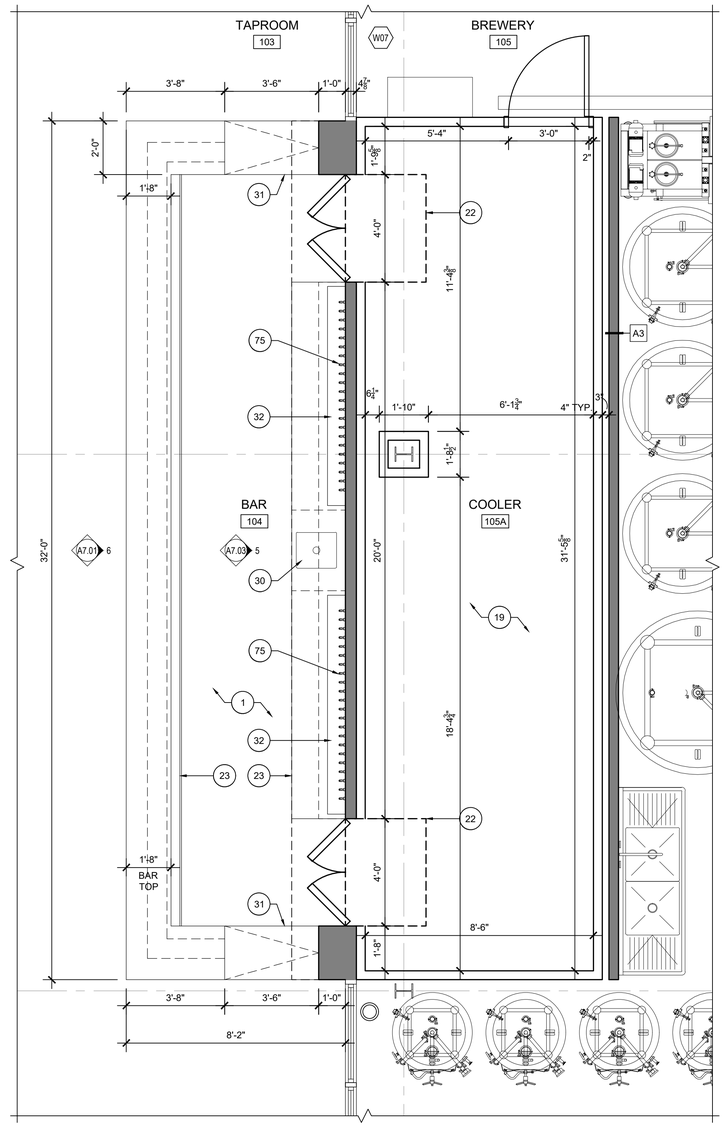
A2.03



1 A2.05 Enlarged Floor Plan - Self-Serve Tap Cooler

3/8" = 1'-0"

PROJECT NORTH



2 A2.05 Enlarged Floor Plan - Taproom Bar & Cooler

3/8" = 1'-0"

PROJECT NORTH

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

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ENLARGED PARTIAL FLOOR PLANS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A205

A2.05

EXISTING PETCO TENANT AREA TO REMAIN
201

EXISTING TENANT AREA
202

NOT IN CONTRACT

NOT IN CONTRACT EXCEPT WHERE NOTED

NOT IN CONTRACT EXCEPT WHERE NOTED

ADD ALTERNATE #1

OPEN TO BELOW

COORD. W/ 1ST FLOOR PLAN

COORDINATE WITH 1ST FLOOR PLAN

10" TO NEW COL. CL

LOADING DOCK AREA 2

LOADING DOCK AREA 1

ELEC. ROOM

NOTE: ALL SHAFT SIZES SHOWN ARE +/- FOR REFERENCE ONLY. CONFIRM ALL SIZES, LOCATIONS, AND CLEARANCES IN THE FIELD

PROJECT NORTH

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

1 / A2.10 Second Floor Proposed Plan

3/32" = 1'-0"

Date	10/15/21
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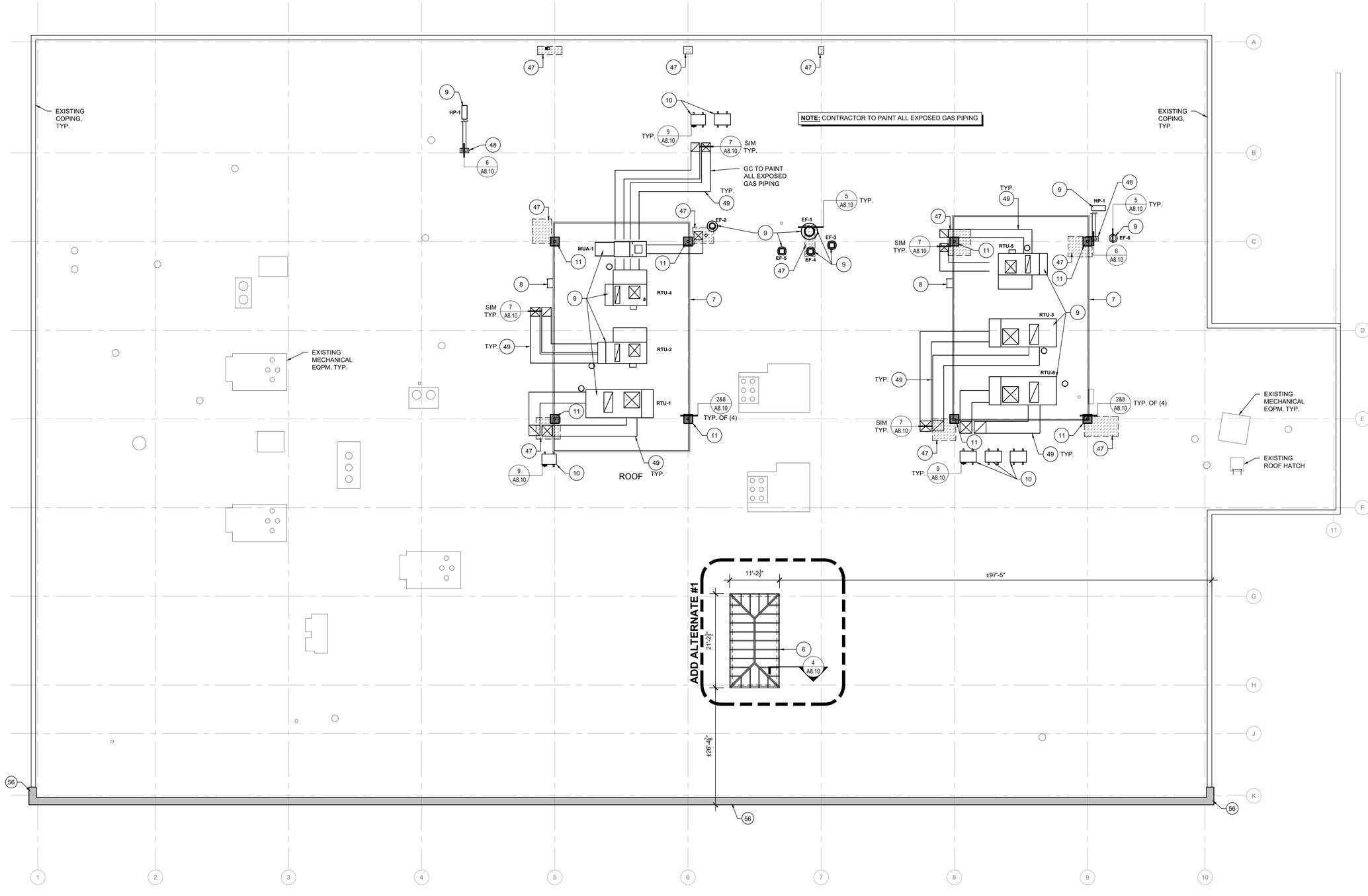
SECOND FLOOR PROPOSED PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A210

A2.10



1 A2.20 Roof Proposed Plan

3/32" = 1'-0"

PROJECT NORTH

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

Date	10/15/21
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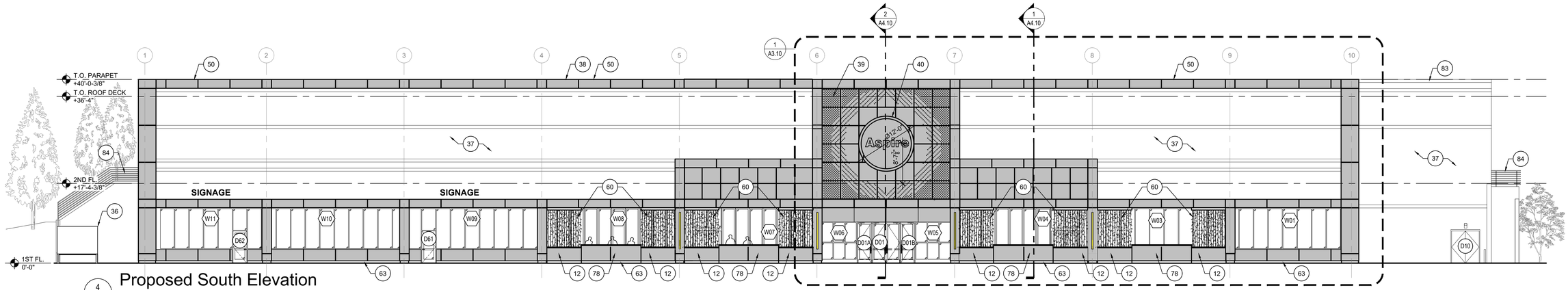
ROOF PROPOSED PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

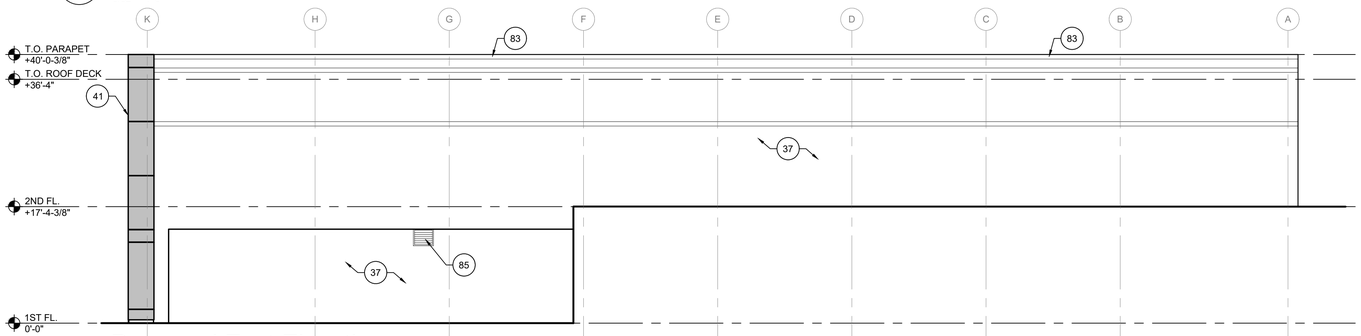
File No. 4155201A220

A2.20



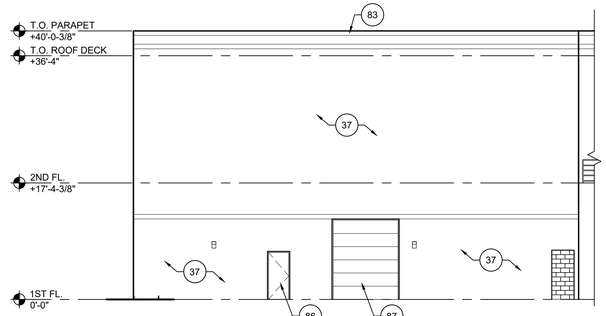
4 A3.01 Proposed South Elevation

3/32" = 1'-0"



3 A3.01 Proposed East Elevation

3/32" = 1'-0"

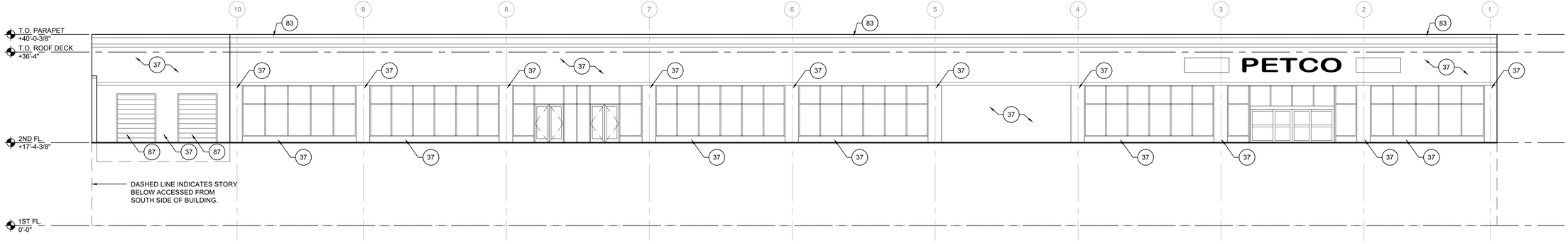


5 A3.01 Proposed Partial East Elevation

3/32" = 1'-0"

2 A3.01 Proposed West Elevation

3/32" = 1'-0"



1 A3.01 Proposed North Elevation

3/32" = 1'-0"

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

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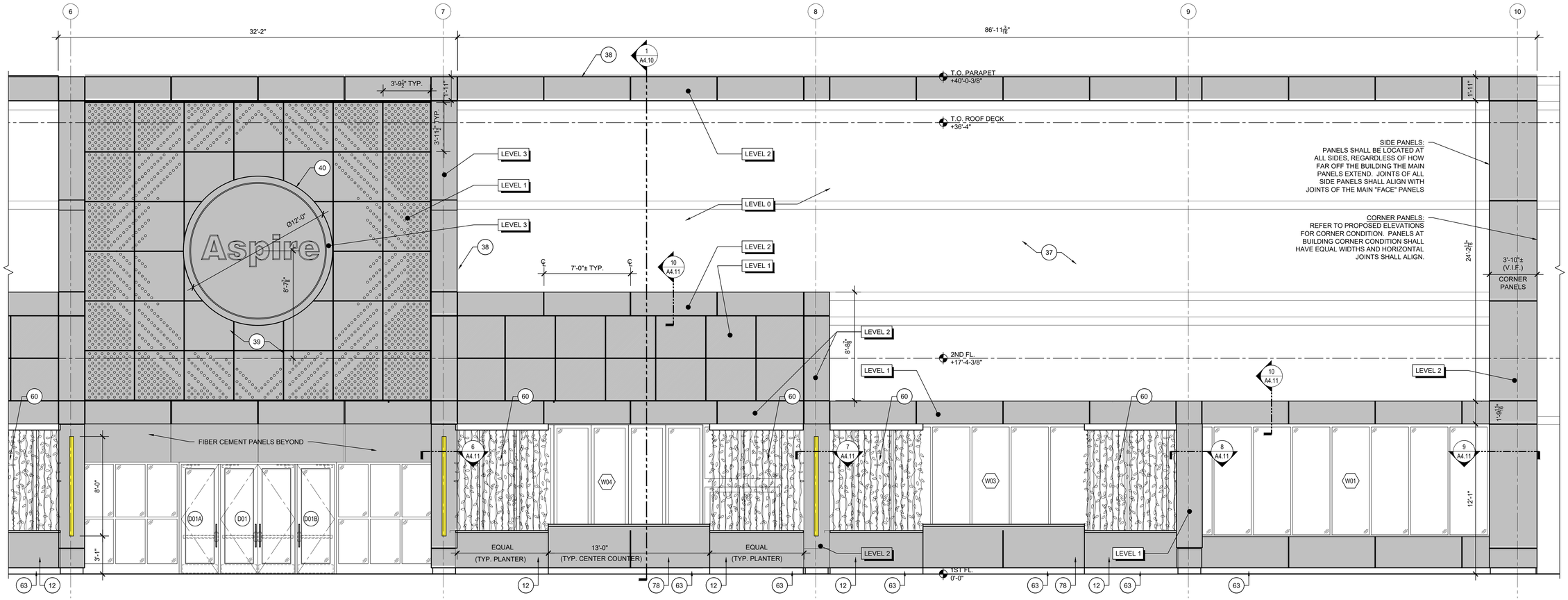
PROPOSED ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A301

A3.01



1 / A3.10 Enlarged South Elevation

1/4" = 1'-0"

NOTES:
1. REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES
2. REFER TO SHEET A4.10 FOR ADDITIONAL INFORMATION ON LEVEL 0 THROUGH 3.

Date	10/15/21
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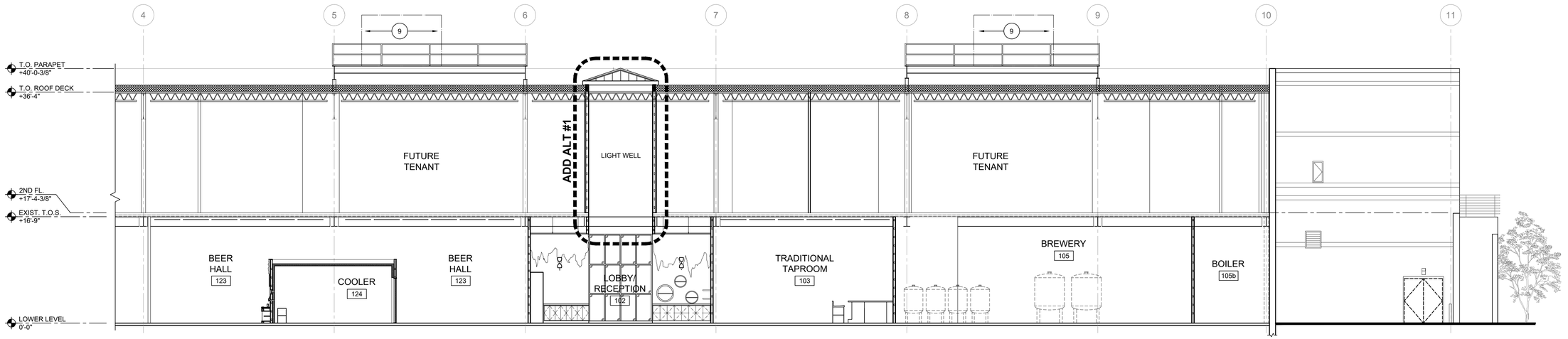
PROPOSED ENLARGED ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

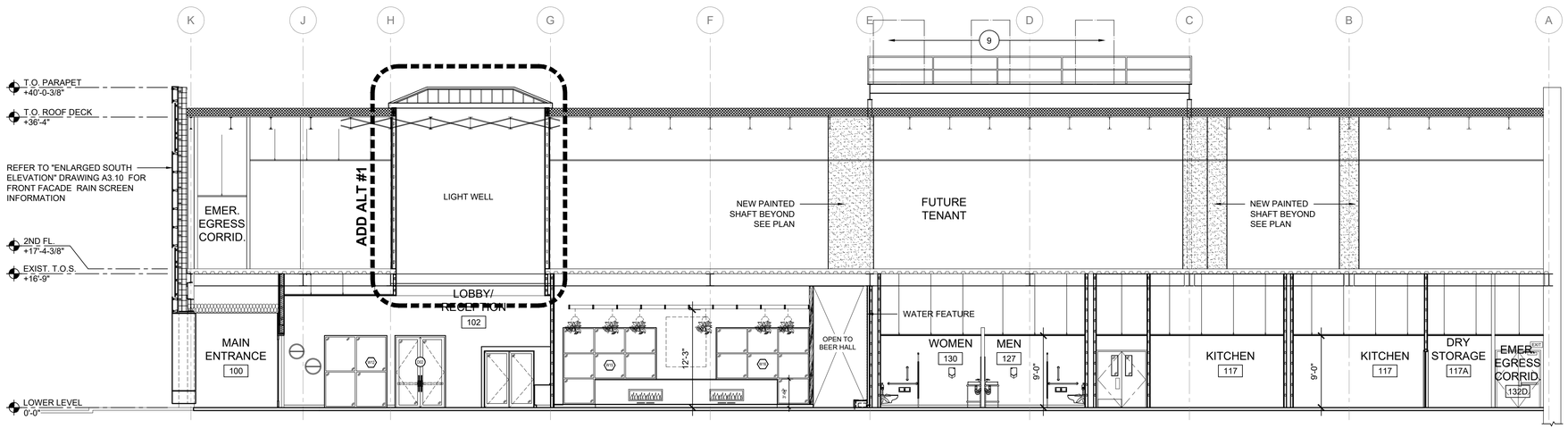
File No. 4155201A310

A3.10



2 A4.01 Proposed Building Section

1/8" = 1'-0"



1 A4.01 Proposed Building Section

1/8" = 1'-0"

NOTE: REFER TO SHEET A2.00 FOR CONSTRUCTION KEY NOTES

Date	10/15/21
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PROPOSED BUILDING SECTIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

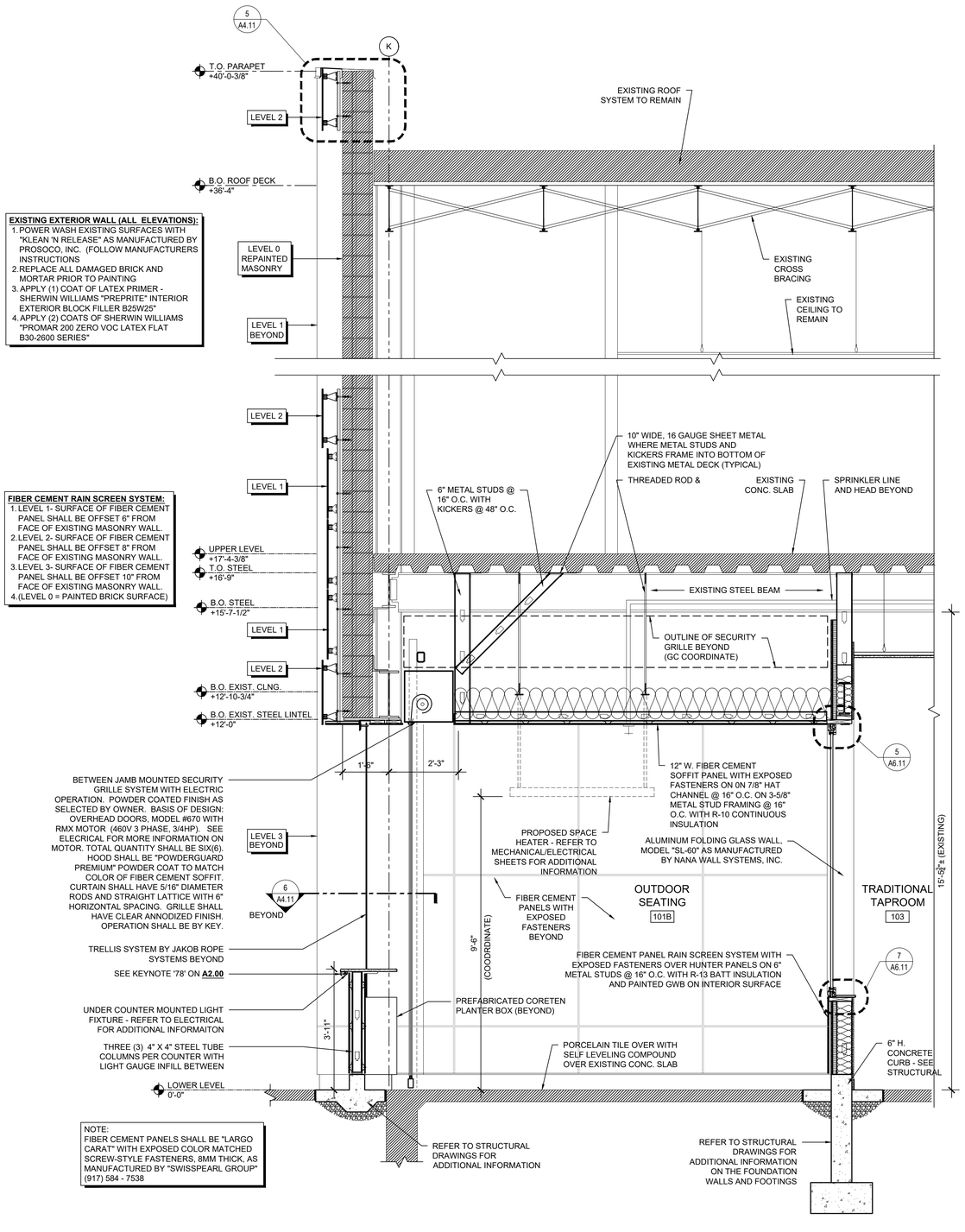
File No. 4155201A401

A4.01

EXISTING EXTERIOR WALL (ALL ELEVATIONS):
1. POWER WASH EXISTING SURFACES WITH "KLEAN 'N RELEASE" AS MANUFACTURED BY PROSOCO, INC. (FOLLOW MANUFACTURERS INSTRUCTIONS
2. REPLACE ALL DAMAGED BRICK AND MORTAR PRIOR TO PAINTING
3. APPLY (1) COAT OF LATEX PRIMER - SHERWIN WILLIAMS "PREPRITE" INTERIOR EXTERIOR BLOCK FILLER B25W25"
4. APPLY (2) COATS OF SHERWIN WILLIAMS "PROMAR 200 ZERO VOC LATEX FLAT B30-2600 SERIES"

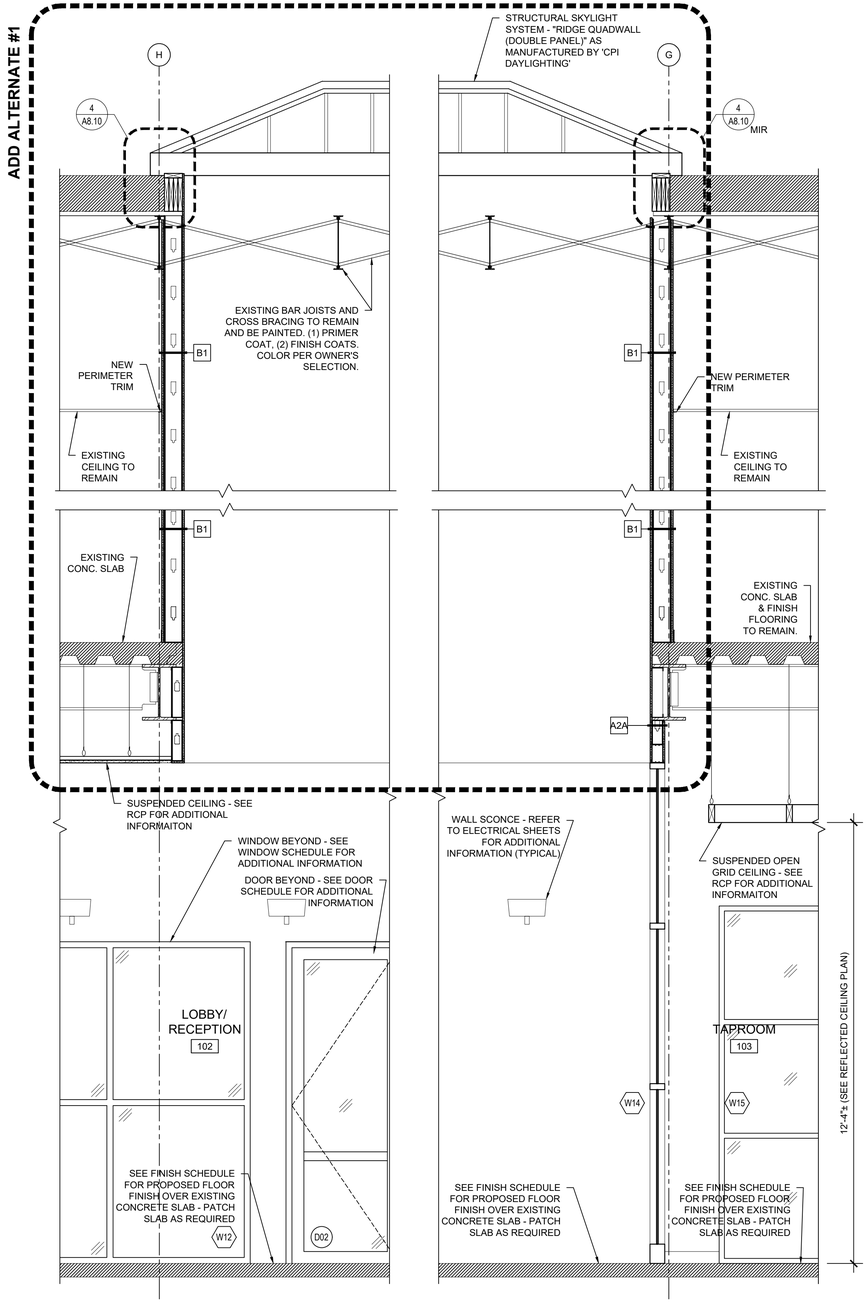
FIBER CEMENT RAIN SCREEN SYSTEM:
1. LEVEL 1- SURFACE OF FIBER CEMENT PANEL SHALL BE OFFSET 6" FROM FACE OF EXISTING MASONRY WALL.
2. LEVEL 2- SURFACE OF FIBER CEMENT PANEL SHALL BE OFFSET 8" FROM FACE OF EXISTING MASONRY WALL.
3. LEVEL 3- SURFACE OF FIBER CEMENT PANEL SHALL BE OFFSET 10" FROM FACE OF EXISTING MASONRY WALL.
4. (LEVEL 0 = PAINTED BRICK SURFACE)

NOTE:
FIBER CEMENT PANELS SHALL BE "LARGO CARAT" WITH EXPOSED COLOR MATCHED SCREW-STYLE FASTENERS, 8MM THICK, AS MANUFACTURED BY "SWISSPEARL GROUP" (917) 584 - 7538



1 A4.10 Wall Section
1/2" = 1'-0"

ADD ALTERNATE #1



2 A4.10 Wall Section
1/2" = 1'-0"

Date	10/15/21
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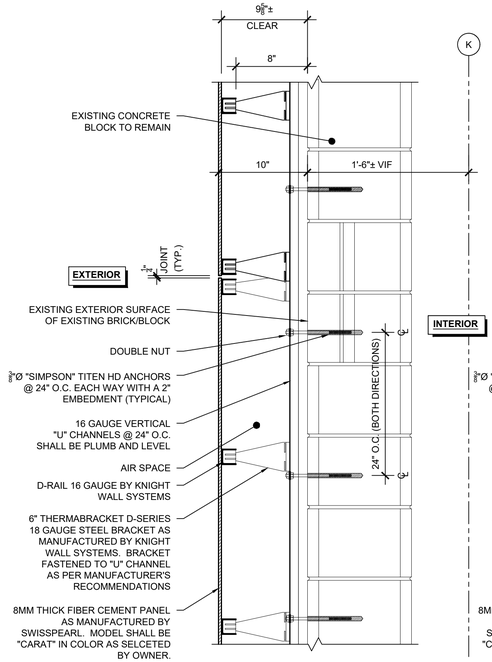
WALL SECTIONS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

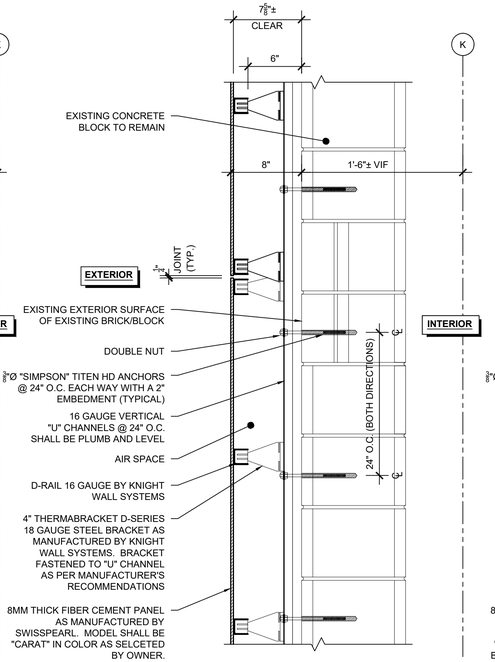
Job No. 4.1552.01
File No. 41552O1A410

A4.10



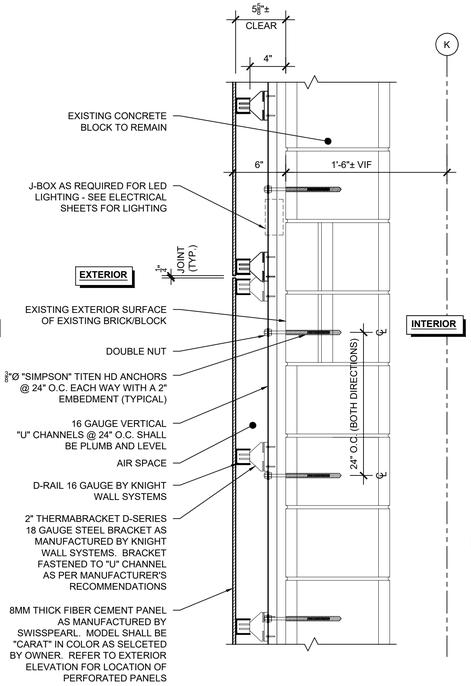
1 A4.11 — Existing Exterior Wall - Level 3

1 1/2" = 1'-0"



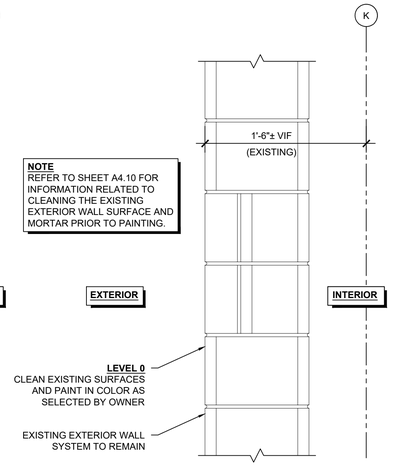
2 A4.11 — Existing Exterior Wall - Level 2

1 1/2" = 1'-0"



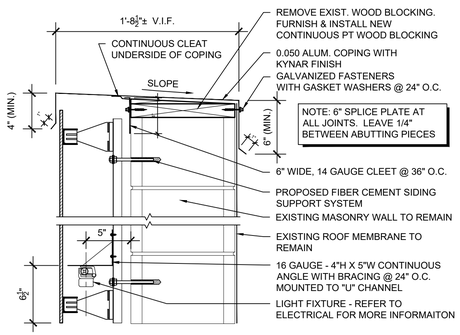
3 A4.11 — Existing Exterior Wall - Level 1

1 1/2" = 1'-0"



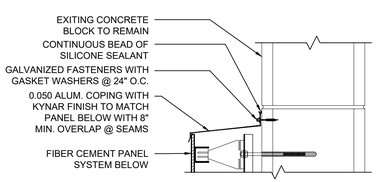
4 A4.11 — Existing Exterior Wall - Level 0

1 1/2" = 1'-0"



5 A4.11 — Coping Detail

3" = 1'-0"

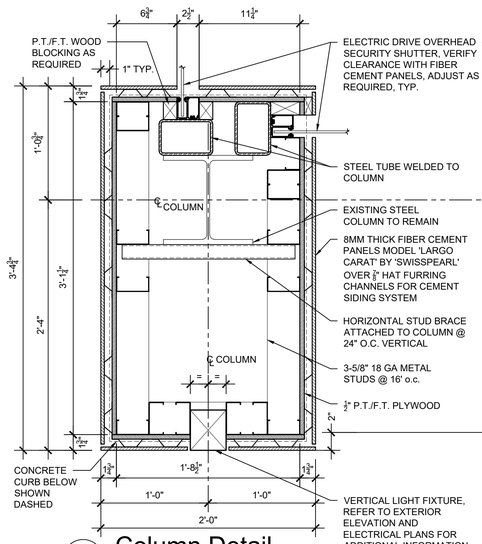


10 A4.11 — Coping Detail

3" = 1'-0"

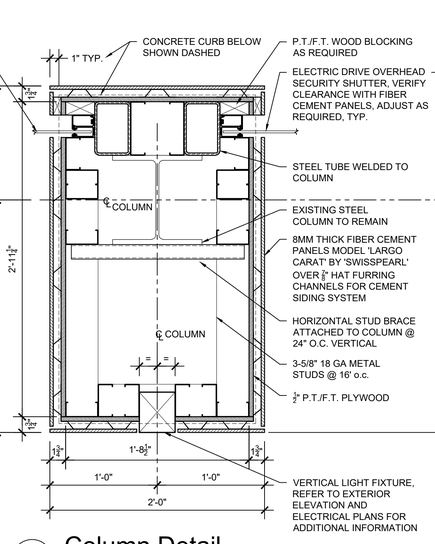
Notes

1. FIBER CEMENT RAIN SCREEN SYSTEM SHALL BE BY "SWISSPEARL" (917) 584-7538.
2. RAIN SCREEN SUPPORT SYSTEM SHALL BE INSTALLED PLUMB AND LEVEL AND AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



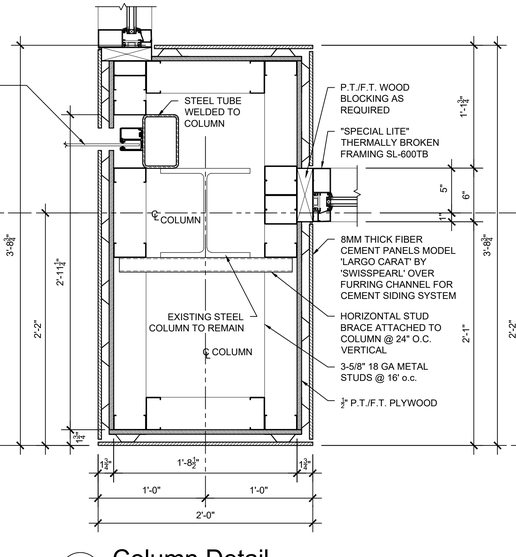
6 A4.11 — Column Detail

1 1/2" = 1'-0"



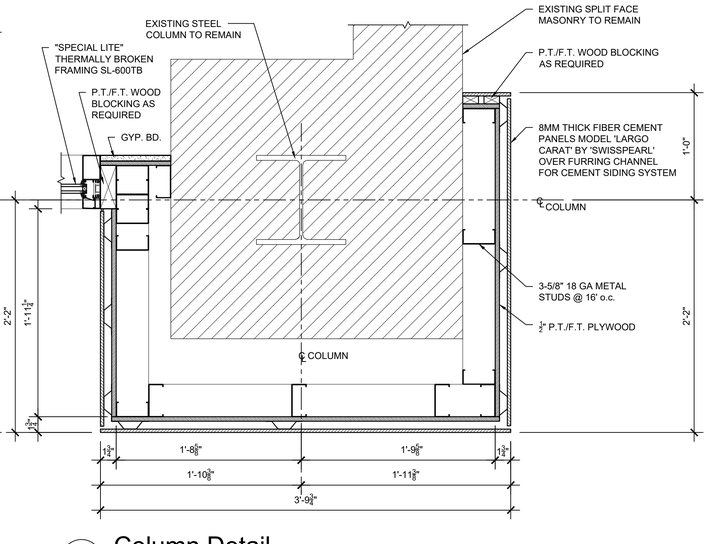
7 A4.11 — Column Detail

1 1/2" = 1'-0"



8 A4.11 — Column Detail

1 1/2" = 1'-0"



9 A4.11 — Column Detail

1 1/2" = 1'-0"

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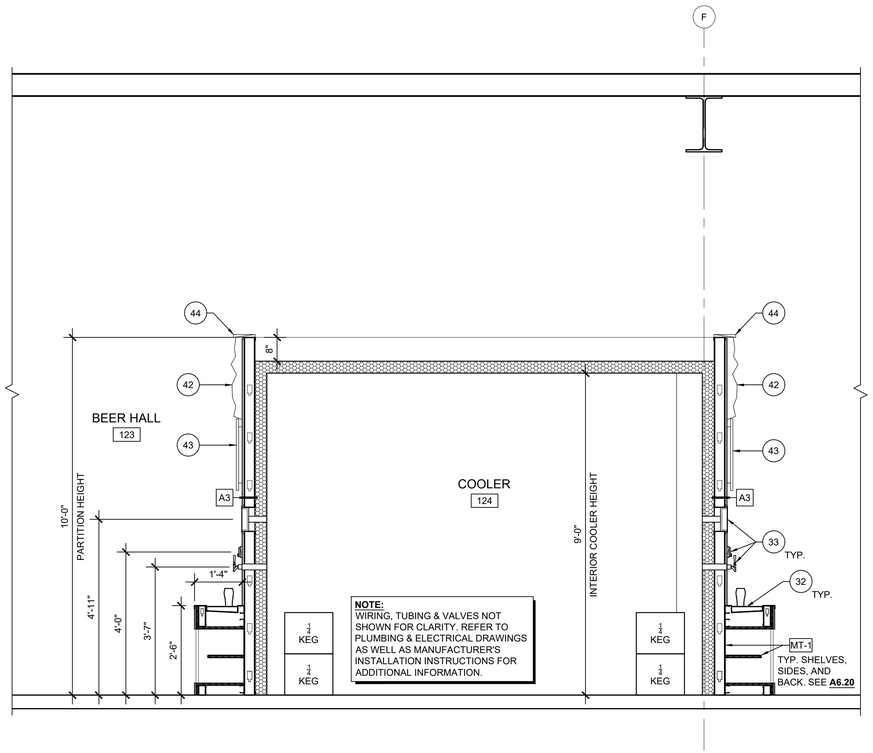
DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

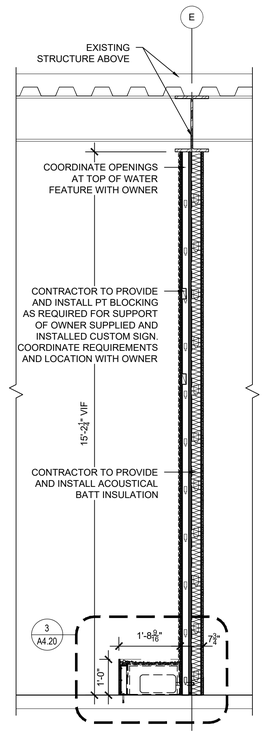
File No. 4155201A410

A4.11



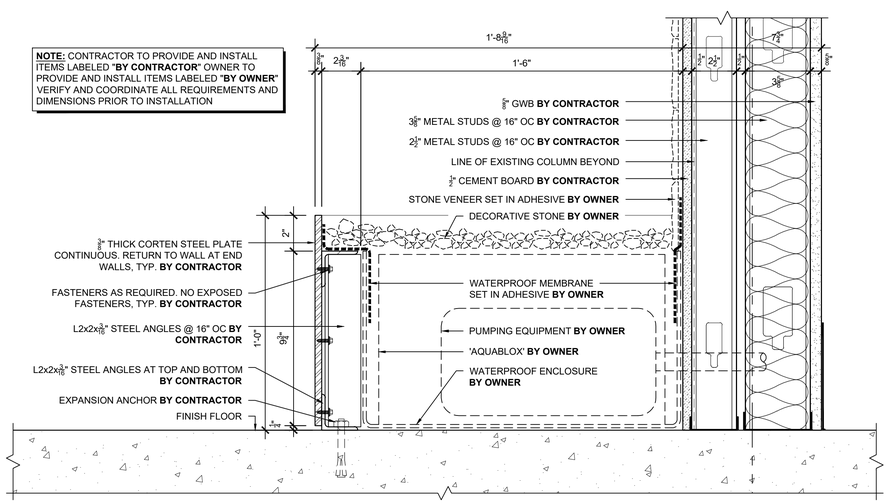
1 A4.20 Cooler & Tap Wall Section

1/2" = 1'-0"



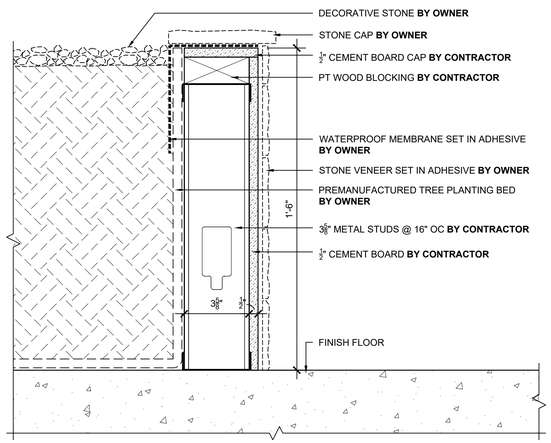
2 A4.20 Section At Water Feature

1/2" = 1'-0"



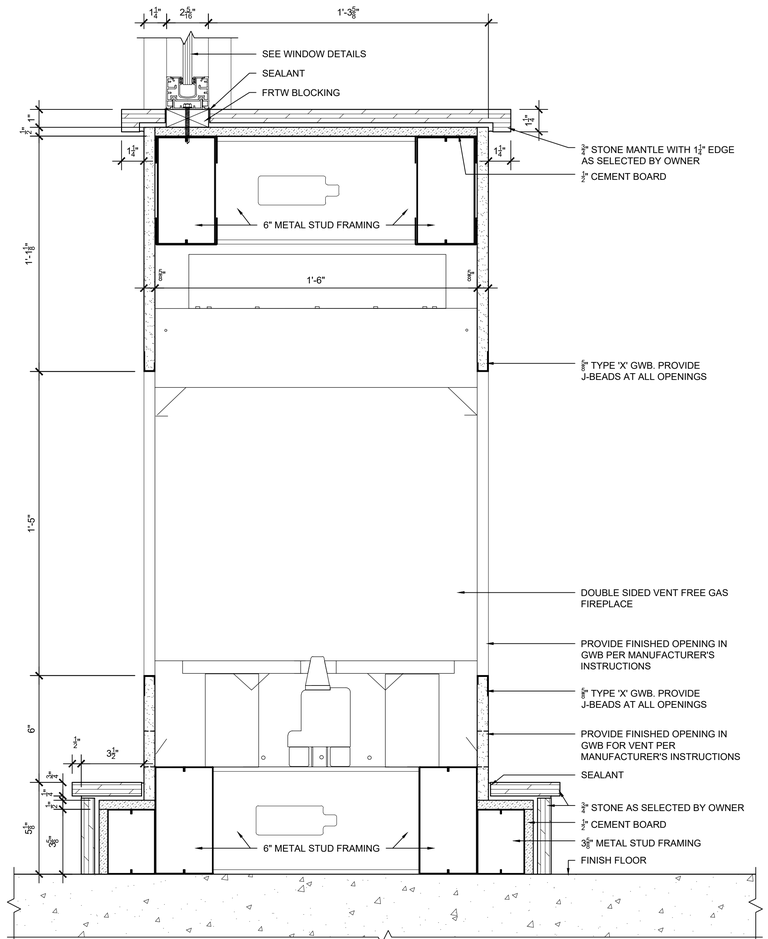
3 A4.20 Detail At Water Feature Base

3" = 1'-0"



4 A4.20 Detail At Planter Wall

3" = 1'-0"



5 A4.20 Section Through Fireplace

3" = 1'-0"

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

Date	10/15/21
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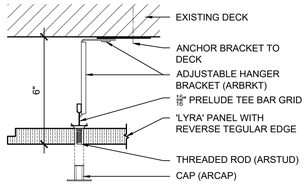
PROPOSED SECTIONS & DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A420

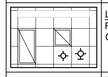
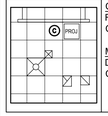
A4.20



1 A5.00 — ACT Support Detail

3" = 1'-0"

Symbol Legend

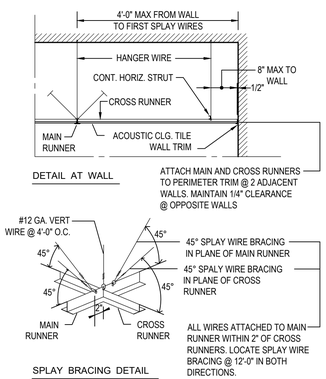
SYMBOL	DESCRIPTION
0'-0"	DATUM: FINISH CEILING HEIGHT ABOVE FINISH FLOOR
CT-#	CEILING TYPE (REFER TO CEILING TYPES SCHEDULE)
	LIGHTING FIXTURES - REFER TO ELECTRICAL PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR CEILING DIFFUSER LOCATIONS.
	CEILING MOUNTED EQUIPMENT - REFER TO ELECTRICAL PLANS FOR EXACT FIXTURE LOCATIONS. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR CEILING DIFFUSER LOCATIONS. MECHANICAL DIFFUSERS - REFER TO MECHANICAL PLANS FOR EXACT CEILING DIFFUSER LOCATIONS. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LIGHT FIXTURE LOCATIONS.

Typical Ceiling Notes

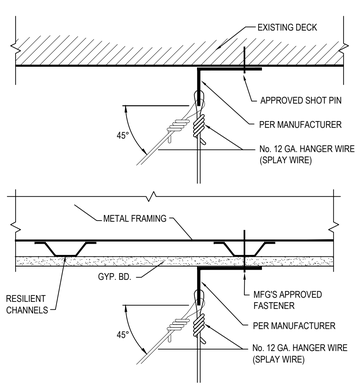
1. PENETRATIONS THROUGH CEILINGS ARE TO BE PROTECTED PER RATED DESCRIPTIONS. REFER TO FIRE RESISTANT RATED ASSEMBLIES WALL AND CEILING TYPES.
2. ALL ACCESS PANELS, HATCHES/LADDERS, GYPSUM BOARD SOFFITS, BULKHEAD, HVAC GRILLES AND REGISTERS, SHALL BE PAINTED TO MATCH CEILING FINISHES.
3. SUSPENDED ACOUSTIC TILE CEILINGS SHALL BE CENTERED IN SPACE IN BOTH DIRECTIONS TO MINIMIZE WASTE AS REQUIRED. UNLESS OTHERWISE INDICATED, FIELD VERIFY.
4. ALL AREAS NOT GRIDDED AS CEILING TILE SHALL BE OPEN TO ABOVE UNLESS OTHERWISE NOTED.
5. TENT ALL LIGHT FIXTURES IN RATED FLOOR/CEILING, ROOF/CEILING ASSEMBLIES AS REQUIRED. REFER TO FIRE RESISTANT RATED ASSEMBLIES DRAWING FOR ADDITIONAL INFORMATION.
6. ALL CONTRACTORS (I.E. MECHANICAL, ELECTRICAL, PLUMBING) ARE REQUIRED TO COORDINATE THEIR WORK WITH INDIVIDUAL CEILING FINISHES. ALL DISTURBED AREAS RESULTING FROM CONTRACTORS OPERATIONS SHALL BE PATCHED AND DAMAGED AREAS AS A RESULT OF CONTRACTORS OPERATIONS SHALL BE PATCHED AND REPAIRED TO MATCH.
7. FIELD VERIFY ALL DIMENSIONS AND CLEARANCES. COORDINATE INSTALLATION OF LIGHTING, EQUIPMENT, MECHANICAL DUCTWORK, ETC. TO ENSURE PROPER INSTALLATION.
8. ALL COLORS AND PATTERNS TO BE SELECTED BY OWNER, TYPICAL.
9. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY ACCESSORIES INCLUDING PERIMETER MOLDINGS, FASTENERS, SUPPORT WIRES, TRIM, ETC. FOR A COMPLETE INSTALLATION.
10. ALL LIGHTING FIXTURES SHOWN ON REFLECTED CEILING PLAN ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY, REFER TO ELECTRICAL LIGHTING PLAN FOR ACTUAL LOCATIONS.
11. AT LOCATIONS WHERE NEW CEILING ADJOINS, ABUTS, OR EXTENDS AN EXISTING CEILING, NEW CEILING GRID SHALL MATCH THAT OF EXISTING.

Ceiling Types

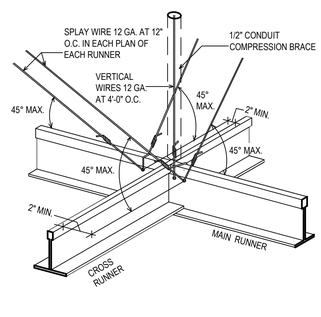
MARK	DESCRIPTION	SYMBOL
CT-1	"ARMSTRONG" 2'x2'x9/16" "ULTIMA" BEVELED TEGULAR ACOUSTIC CEILING TILE W/ ARMSTRONG "SUPRAFINE" 9/16" EXPOSED TEE GRID	
CT-2	"GP" 5/8" THICK "DENSARMOR PLUS ABUSE-RESISTANT" BRAND ABUSE/WATER/MOLD/FIRE-RESISTANCE INTERIOR PANELS." FINISH JOINTS AND PAINT, TYP. USE DRYWALL SUSPENSION GRID UNO.	
CT-3	PAINT ENTIRE EXPOSED CEILING AREA INCLUDING ALL STRUCTURE AND EXPOSED PIPING AND WIRING WITH WATER RESISTANT PAINT SUITABLE FOR PROTECTING STEEL IN WET LOCATIONS. COLOR TO BE SELECTED BY OWNER / ARCHITECT	
CT-4	FIBER CEMENT PANELS SHALL BE "LARGO CARAT", 8MM THICK WITH EXPOSED COLOR-MATCHED FASTEERS, AS MANUFACTURED BY "SWISSPEARL GROUP" (917) 584-7538. WIDTH OF SOFFIT ELEMENTS & LOCATION OF SEAMS TO BE COORDINATED WITH ARCHITECT PRIOR TO FABRICATION OF SOFFIT.	
CT-5	CUSTOM 36" x 36" x 6" DEEP "CUBES" WOOD TRELLIS BY "RULON" SUSPENDED FROM STRUCTURE ABOVE. FINISH TO BE SELECTED BY OWNER / ARCHITECT. SEE RCP FOR LAYOUT DIRECTION	
CT-6	ARMSTRONG 2'x2'x5/8" "KITCHEN ZONE" SQUARE LAY-IN ACOUSTIC CEILING TILE W/ ARMSTRONG "PRELUDE XL" 15/16" EXPOSED TEE GRID	
CT-7	RESERVED	
CT-8	"ACOUSTIBUILT" SEAMLESS ACOUSTICAL CEILING SYSTEM BY "ARMSTRONG". USE DRYWALL SUSPENSION GRID UON	
CT-9	'LYRA PB CAPZ' PANELS AND SUSPENSION SYSTEM BY 'ARMSTRONG'. CUSTOM COLOR PANELS AND HARDWARE COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. COORDINATE CUT-OUT LOCATIONS FOR LIGHT FIXTURES, SUSPENSION LOCATION FOR DUCTWORK, ETC. COORDINATE SUPPORT LOCATIONS PER MANUFACTURERS INSTRUCTIONS. SEE TYPICAL INSTALLATION DETAIL **1/A5.00**. SEE TYPICAL LAYOUT **3/A5.02**	
OTA	OPEN TO ABOVE- PAINT ALL EXPOSED CEILING STRUCTURE, TYP.	



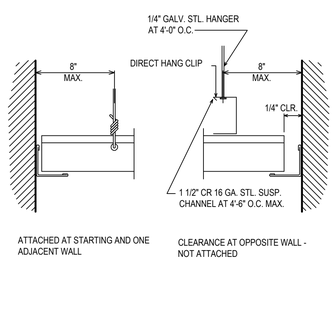
A A5.00 — Typ. Seismic Bracing Detail — 3/8" = 1'-0" — SUSPENSION CEILING SYSTEM



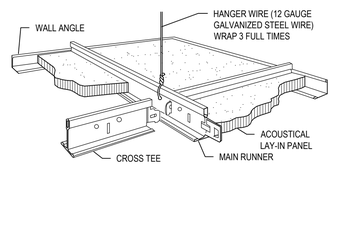
B A5.00 — Typ. Hanger Wire Detail — 1-1/2" = 1'-0" — SUSPENSION CEILING SYSTEM



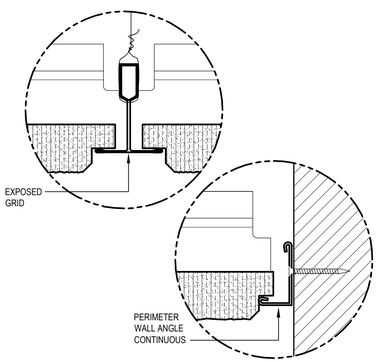
C A5.00 — Typ. Susp. Ceiling Detail — 1-1/2" = 1'-0" — SUSPENSION CEILING SYSTEM



D A5.00 — Typ. Clng. Moulding Detail — 1-1/2" = 1'-0" — SUSPENSION CEILING SYSTEM



E A5.00 — Typ. Susp. Ceiling System — 1-1/2" = 1'-0" — ACOUSTIC PANEL SUSP. SYSTEM



F A5.00 — Typ. Susp. System Profiles — 1-1/2" = 1'-0" — ACOUSTIC PANEL SUSP. SYSTEM

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
The REGISTERED ARCHITECT License No. 32407

Revisions:

1 — PERMIT SET 10/15/21

CEILING TYPES AND DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

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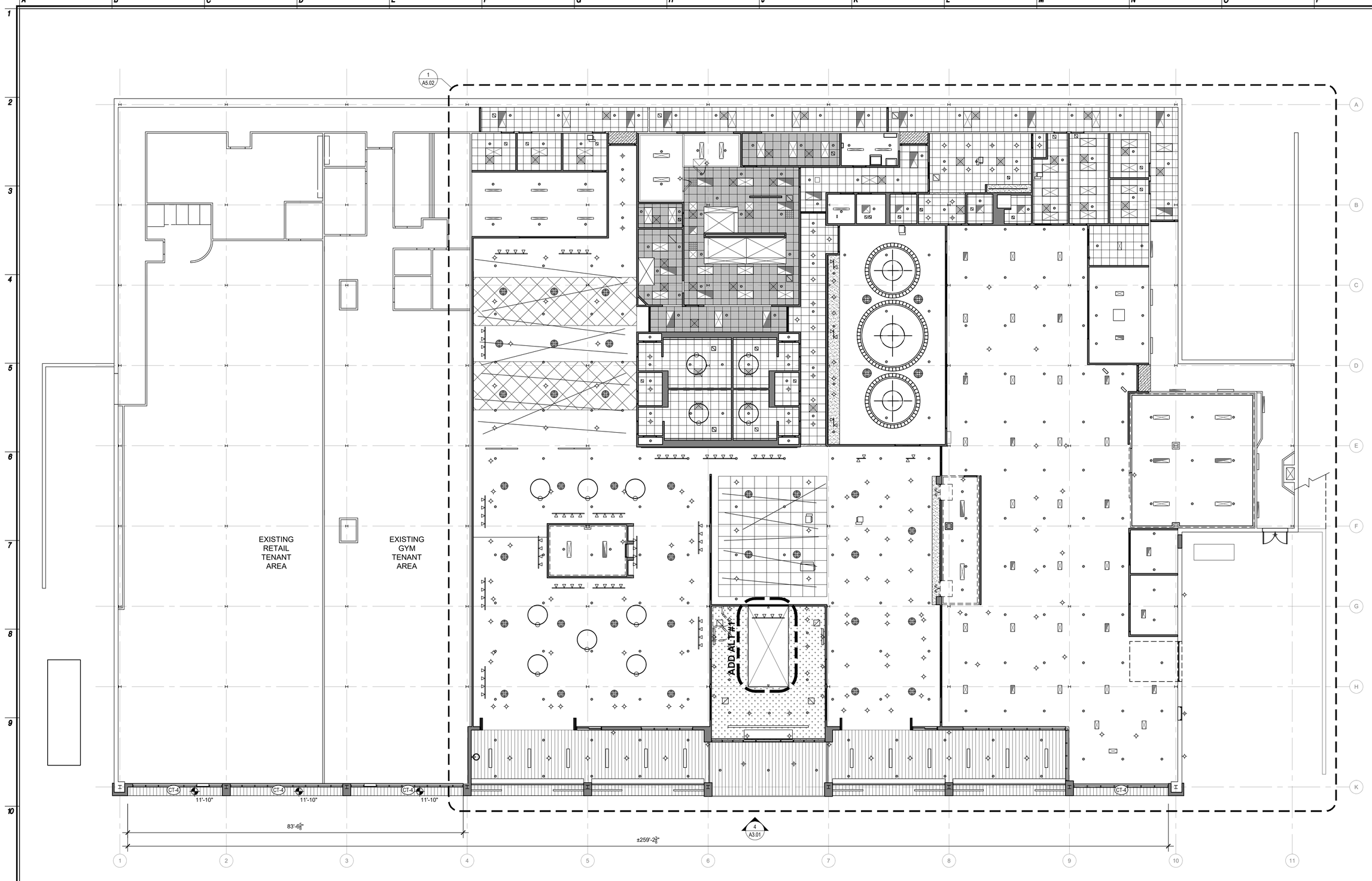
Job No. 4.1552.01

File No. 4155201A500

A5.00



1 A5.01 Proposed First Floor Reflected Ceiling Plan

3/32" = 1'-0"

PROJECT NORTH

NOTE: REFER TO SHEET **A5.00** FOR CEILING TYPES AND NOTES

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Drawn	CC

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The REGISTERED ARCHITECT License No. 32407

Revisions:

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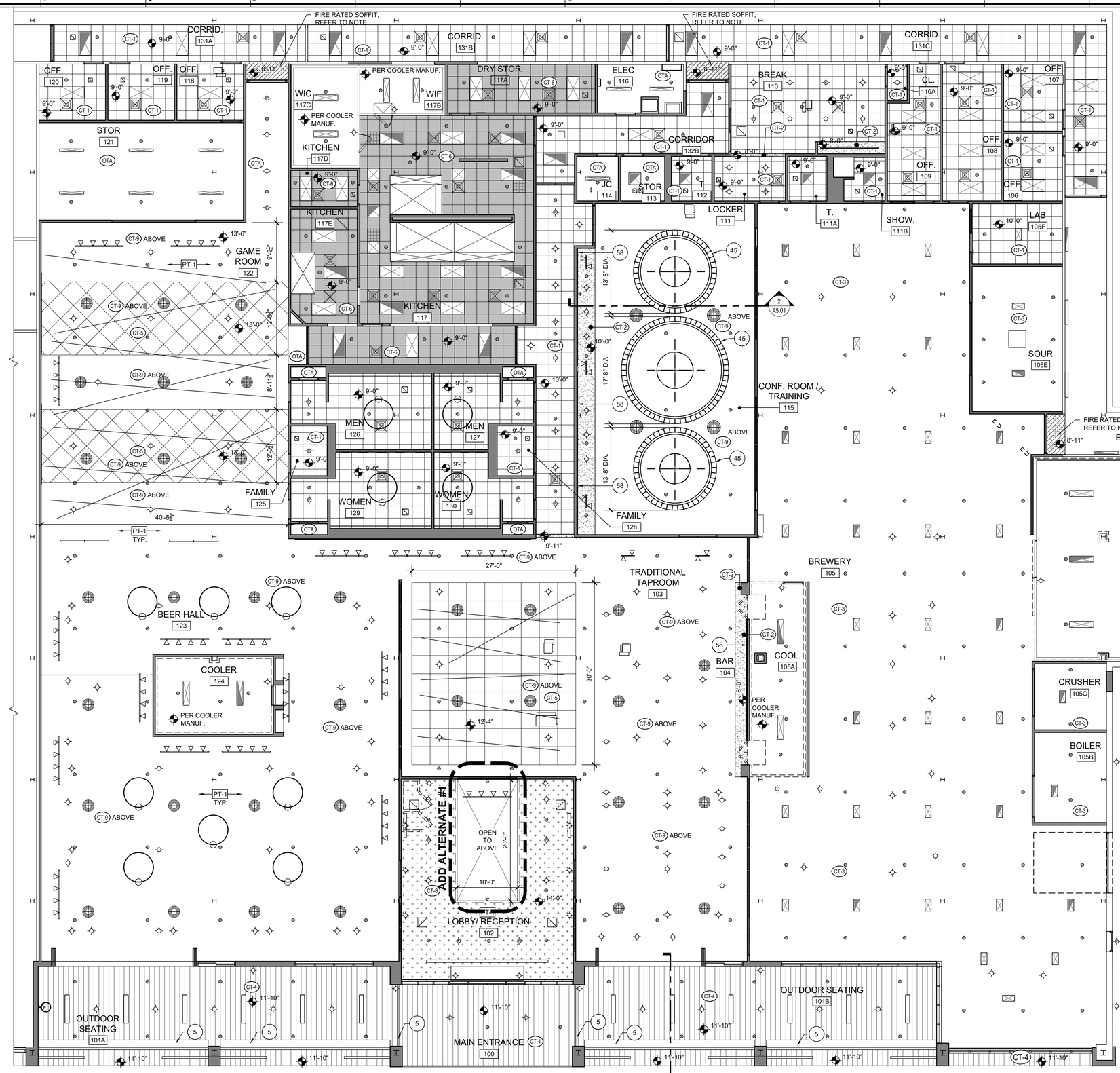
PROPOSED FIRST FLOOR RCP

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

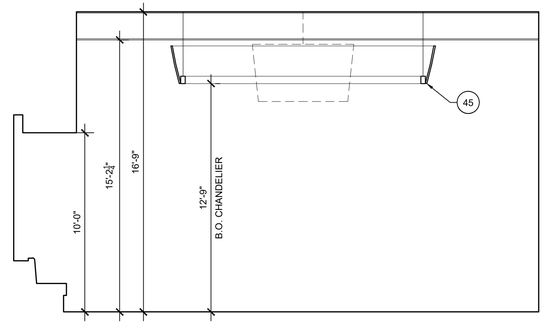
Job No. 4.1552.01

File No. 41552O1A501

A5.01



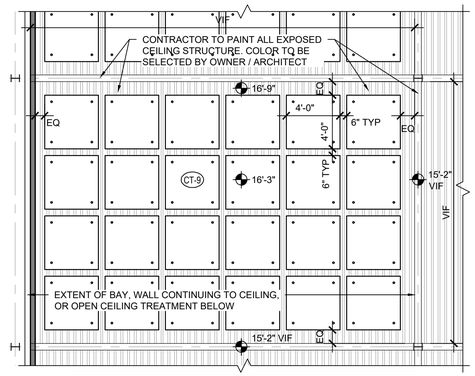
1 A5.02 Proposed Partial First Floor Reflected Ceiling Plan
1/8" = 1'-0"



2 A5.02 Section at Conference Room
1/4" = 1'-0"

NOTES:
- BEAMS ABOVE NOT SHOWN FOR CLARITY.
- DUCTWORK NOT SHOWN FOR CLARITY. SEE MECHANICAL DRAWINGS
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURES & POWER REQUIREMENTS.

FIRE RATED SOFFIT NOTE:
CONTRACTOR TO PROVIDE AND INSTALL (1) HOUR FIRE RATED HORIZONTAL SHAFTWALL ASSEMBLY WHERE INDICATED. MAINTAIN CONTINUOUS CORRIDOR FIRE RATING THROUGHOUT



NOTE: CONTRACTOR TO OMIT PANELS AS REQUIRED WHERE THEY WILL INTERFERE WITH MECHANICAL ITEMS, TYP. SEE MECHANICAL DRAWINGS

3 A5.02 Typical Partial Upper RCP
3/16" = 1'-0"

NOTE: REFER TO SHEET **A5.00** FOR CEILING TYPES AND NOTES

Date	10/15/21
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Revisions:
1 PERMIT SET 10/15/21

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ENLARGED REFLECTED CEILING PLANS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A501

A5.02

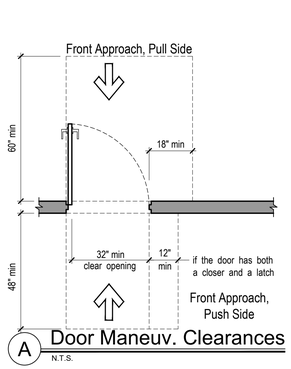
DOOR SCHEDULE

DOOR NO.	DOOR TYPE	ROOM NAME/ NUMBER	DOOR							FRAME			SILL	HARDWARE (SEE A6.04 & A6.05)			NOTES
			ACTION	MATERIAL	FIRE RATING	DOOR FINISH	DOOR SIZE		VISION PANEL	DETAIL NO.			DETAIL NO.	HARDWARE SET	CLOSER	PANIC	
							WIDTH	HEIGHT		MAT.	HEAD	JAMB					
FIRST FLOOR																	
D01	A	102 LOBBY/ RECEPTION	DOUBLE SWING	ALUM.	-	FACTORY FINISH	6'-0"	9'-0"	■	MTL	1/A6.06	2 & 3 /A6.06	4/A6.06	CR01	■	■	BASIS OF DESIGN: "SL-15" BY "SPECIAL-LITE" KYNAR 500 FINISH, COLOR TO BE SELECTED BY ARCH.
D01A	A	102 LOBBY/ RECEPTION	SINGLE SWING	ALUM.	-	FACTORY FINISH	3'-0"	9'-0"	■	MTL	1/A6.06	2 & 3 /A6.06	4/A6.06	01A	■	■	BASIS OF DESIGN: "SL-15" BY "SPECIAL-LITE" KYNAR 500 FINISH, COLOR TO BE SELECTED BY ARCH.
D01B	A	102 LOBBY/ RECEPTION	SINGLE SWING	ALUM.	-	FACTORY FINISH	3'-0"	9'-0"	■	MTL	1/A6.06	2 & 3 /A6.06	4/A6.06	01	■	■	BASIS OF DESIGN: "SL-15" BY "SPECIAL-LITE" KYNAR 500 FINISH, COLOR TO BE SELECTED BY ARCH.
D02	B	102 LOBBY/ RECEPTION	PAIR SINGLE SWING	WOOD	45 MIN	STAIN	6'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	01A.1	■	■	
D03	B(MIR)	102 LOBBY/ RECEPTION	PAIR SINGLE SWING	WOOD	45 MIN	STAIN	6'-0"	9'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	01A.1	■	■	
D04	C	103 TRADITIONAL TAPROOM	SLIDING	ALUM.	-	FACTORY FINISH	6'-0"	7'-0"	■	MTL	11 /A6.06	12 /A6.06	4 /A6.11	SL			BASIS OF DESIGN: "DURA-GLIDE 2000" BY "STANLEY" KYNAR FINISH, COLOR TO BE SELECTED BY ARCH. W/ SPECIAL LITE SL-450TB TRANSOM
D05	D	105 BREWERY	PAIR SINGLE SWING	ALUM.	-	PAINT	6'-0"	7'-0"	■	MTL	15,20 /A6.06	16,21 /A6.06	17, 22 /A6.06	07A			ALUMINUM DOOR WITH WOOD FINISH MECHANICALLY FASTENED TO DOOR "SPECIAL LITE" "LITE SPACE"
D06	E	105 BREWERY	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	EXIST.	25 /A6.06	26 /A6.06	27 /A6.06	CR01.1	■	■	
D07	F	105 BREWERY	OVERHEAD SECTIONAL	ALUM.	-	FACTORY FINISH	10'-0"	12'-0"	-	EXIST.	1/A6.07	2/A6.07	-	RU			INSULATED EXTERIOR OVERHEAD SECTIONAL DOOR
D08	G	105B BOILER	PAIR SINGLE SWING	HM	-	PAINT	6'-8"	7'-0"	-	MTL	6/A6.06	7/A6.06	9/A6.06	01A.5	■	■	
D09	L	105C CRUSHER	OVERHEAD COILING	HM	-	PAINT	8'-0"	12'-0"	-	MTL	5/A6.07	6/A6.07	9/A6.06	RU			
D10	H	EGRESS COPRRIDOR	PAIR SINGLE SWING	ALUM.	-	FACTORY FINISH	6'-0"	7'-0"	-	EXIST.	25 /A6.06	26 /A6.06	27 /A6.06	01A.2	■	■	
D11	H	105 BREWERY	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	9/A6.06	01A.3	■	■	
D12	L	105E SOUR	OVERHEAD COILING		-	FACTORY FINISH	12'-0"	12'-0"	-	N/A	5/A6.07	6/A6.07	-	RU			
D13	S	105F LAB	SINGLE SWING	HM	45 MIN	FACTORY FINISH	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	-	02.2			
D14	H	EGRESS CORRIDOR	PAIR DOUBLE SWING	HM	-	PAINT	6'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	8/A6.06	01D	■	■	
D15	J	106 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	05	■		
D16	J	107 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	05	■		
D17	J	108 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	05	■		
D18	J	108 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	10 /A6.06	05.1	■		
D19	J	109 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	05	■		
D20	J	109 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	10 /A6.06	05.2	■		
D21	K	110A CLOSET	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	8/A6.06	02.1			
D22	J	110 BREAK ROOM	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	10 /A6.06	02.3	■		
D23	K	111B SHOWER	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	04.2	■		
D24	K	111A TOILET	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	04.2	■		
D25	K	111 LOCKER	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	02.1	■		
D26	K	112 TOILET	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	04	■		
D27	K	113 STORAGE	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	02	■		
D28	K	114 JC	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	02	■		
D29	P	115 CONF. ROOM/ TRAINING	SINGLE SWING	ALUM	-	PAINT	3'-0"	7'-0"	■	MTL	15,20 /A6.06	16,21 /A6.06	17, 22 /A6.06	07.1	■		ALUMINUM DOOR WITH WOOD FINISH MECHANICALLY FASTENED TO DOOR "SPECIAL LITE" "LITE SPACE"
D30	N	115 CONF. ROOM/ TRAINING	SINGLE SWING	ALUM	-	PAINT	3'-0"	7'-0"	■	MTL	15,20 /A6.06	16,21 /A6.06	17, 22 /A6.06	07.1	■		ALUMINUM DOOR WITH WOOD FINISH MECHANICALLY FASTENED TO DOOR "SPECIAL LITE" "LITE SPACE"

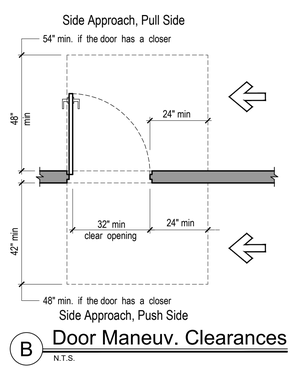
DOOR SCHEDULE (cont.)

DOOR NO.	DOOR TYPE	ROOM NAME/ NUMBER	DOOR							FRAME			SILL	HARDWARE (SEE A6.04 & A6.05)			NOTES
			ACTION	MATERIAL	FIRE RATING	DOOR FINISH	DOOR SIZE		VISION PANEL	DETAIL NO.			DETAIL NO.	HARDWARE SET	CLOSER	PANIC	
							WIDTH	HEIGHT		MAT.	HEAD	JAMB					
D31	T	115 CONF. ROOM/ TRAINING	PAIR SINGLE SWING	WOOD	-	STAIN	6'-0"	7'-0"		MTL	20 /A6.06	21 /A6.06	13 /A6.06	07A.2	■	■	
D32	M	115 CONF. ROOM/ TRAINING	PAIR SINGLE SWING	WOOD	-	STAIN	6'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	13 /A6.06	07A.1	■	■	
D33	H	132B CORRIDOR	PAIR SINGLE SWING	HM	45 MIN	PAINT	6'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	14 /A6.06	01A.4	■	■	
D34	H	EGRESS CORRIDOR	PAIR DOUBLE SWING	HM	-	PAINT	6'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	01D	■	■	
D35	K	116 ELECTRIC ROOM	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	19 /A6.06	02.4	■	■	
D36	H	132B CORRIDOR	PAIR OPPOSING SWING	HM	45 MIN	PAINT	6'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	01C	■	■	
D37	Q	117 KITCHEN	PAIR SINGLE SWING	HM	45 MIN	PAINT	6'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	23 /A6.06	02B			(1)4'-0" LEAF & (1) 2'-0" LEAF
D38	K	117A DRY STORAGE	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	02	■		
D39	K	117D KITCHEN	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	07			
D40	K	117 KITCHEN	SINGLE SWING	HM	-	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	-	02	■		
D41	H	117F SERVICE	PAIR DOUBLE SWING	WOOD	-	STAIN	6'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	10 /A6.06	01B			
D42	K	CLOSET	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	03			
D43	K	126 MEN	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	8/A6.06	07.3	■		
D44	K	125 FAMILY ROOM	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	8/A6.06	04	■		
D45	K	129 WOMEN	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	8/A6.06	07.3	■		
D46	K	CLOSET	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	03			
D47	K	CLOSET	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	03			
D48	K	130 WOMEN	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	10 /A6.06	07.3	■		
D49	K	128 FAMILY ROOM	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	10 /A6.06	04	■		
D50	K	127 MEN	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	10 /A6.06	07.3	■		
D51	K	CLOSET	SINGLE SWING	WOOD	-	STAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	-	03			
D52	H	117F SERVICE	PAIR DOUBLE SWING	WOOD	-	STAIN	6'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	-	01B			
D53	H	131 CORRIDOR	PAIR SINGLE SWING	WOOD	45 MIN	STAIN	6'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	10 /A6.06	01A.4	■	■	
D54	K	118 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	14 /A6.06	05	■		
D55	K	121 STORAGE	SINGLE SWING	HM	-	PAIN	3'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	14 /A6.06	02			
D56	L	121 STORAGE	OVERHEAD COILING	METAL	45 MIN	FACTORY FINISH	14'-0"	10'-0"	-	MTL	5/A6.07	6/A6.07	10 /A6,06	RU			
D57	J	119 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	14 /A6.06	05	■		
D58	J	120 OFFICE	SINGLE SWING	HM	45 MIN	PAINT	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	14 /A6.06	05	■		
D59	H	131A CORRIDOR	PAIR DOUBLE SWING	HM	-	PAINT	6'-0"	7'-0"	-	MTL	6/A6.06	7/A6.06	8/A6.06	01D	■	■	
D60	C	123 BEER HALL	SLIDING	ALUM.	-	FACTORY FINISH	6'-0"	7'-0"	■	MTL	11 /A6.06	12 /A6.06	4 /A6.11	SL			BASIS OF DESIGN: "DURA-GLIDE 2000" BY "STANLEY" KYNAR FINISH, COLOR TO BE SELECTED BY ARCH. W/ SPECIAL LITE SL-450TB TRANSOM
D61	R	EXISTING GYM TENANT	SINGLE SWING	ALUM	-	FACTORY FINISH	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	01.1	■	■	BASIS OF DESIGN: "SL-15" BY "SPECIAL-LITE" KYNAR 500 FINISH, COLOR TO BE SELECTED BY ARCH.
D62	R	EXISTING RETAIL TENANT	SINGLE SWING	ALUM	-	FACTORY FINISH	3'-0"	7'-0"	■	MTL	6/A6.06	7/A6.06	8/A6.06	01.1	■	■	BASIS OF DESIGN: "SL-15" BY "SPECIAL-LITE" KYNAR 500 FINISH, COLOR TO BE SELECTED BY ARCH.

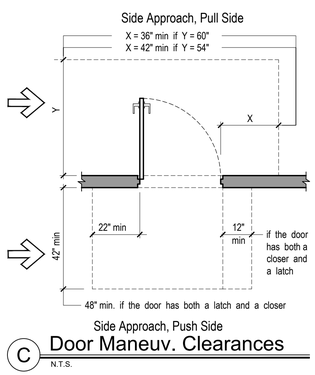
NOTE: SEE SHEETS A6.04 & A6.05 FOR HARDWARE SETS.



A Door Maneuv. Clearances
N.T.S.



B Door Maneuv. Clearances
N.T.S.



C Door Maneuv. Clearances
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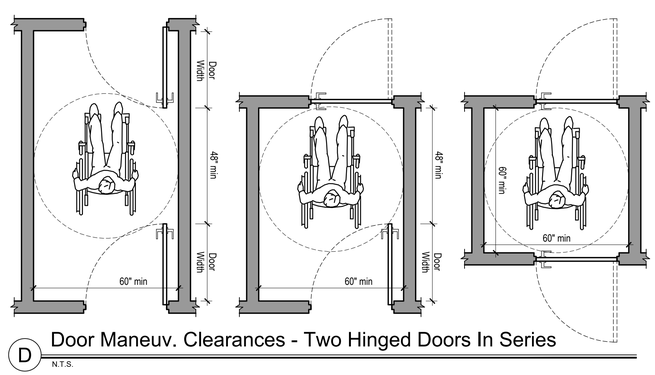

D Door Maneuv. Clearances - Two Hinged Doors In Series
N.T.S.

Marking Fire Rated Glazing Assemblies

FIRE TEST STANDARD	MARK	DEFINITION OF MARKING
ASTM E119 OR UL 263	W	MEETS WALL ASSEMBLY CRITERIA
NFPA 257 OR UL 9	OH	MEETS FIRE WINDOW ASSEMBLY CRITERIA INCLUDING THE HOSE STREAM TEST.
NFPA 252 OR UL 10B OR UL 10C	D	MEETS FIRE DOOR ASSEMBLY CRITERIA.
	H	MEETS FIRE DOOR ASSEMBLY HOSE STREAM TEST.
	T	MEETS 450°F TEMPERATURE RISE CRITERIA FOR 30 MINUTES.
	XXX	THE TIME IN MINUTES OF FIRE-RESISTANCE OR FIRE PROTECTION RATING OF THE GLAZING ASSEMBLY.

Energy Code Requirements

2020 ECC OF N.Y. - Table C402.4

Climate Zone: 5

Vertical Fenestration - **U-factor**

Fixed fenestration:	0.38
Operable fenestration:	0.45
Entrance doors:	0.77

Vertical Fenestration - **SHGC**

PF < 0.2:	0.38
0.2 ≤ PF < 0.5:	0.46
PF ≥ 0.5:	0.61
Skylight U-factor	0.50
Skylight SHGC	0.40

NOTE: ALL EXTERIOR DOORS AND WINDOWS SHALL MEET OR EXCEED THE ENERGY CODE MINIMUM REQUIREMENTS.

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Revisions:

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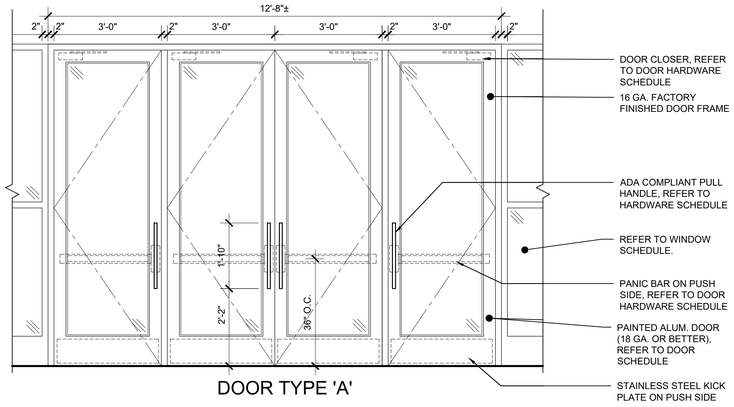
DOOR SCHEDULE

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A601

A6.01



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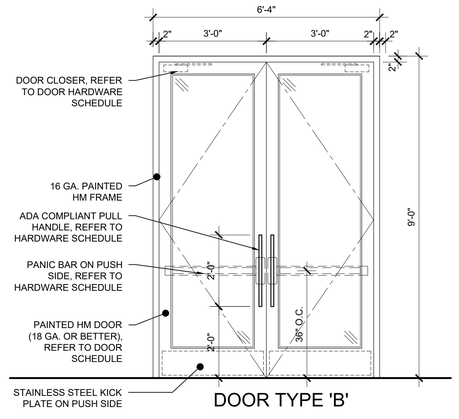

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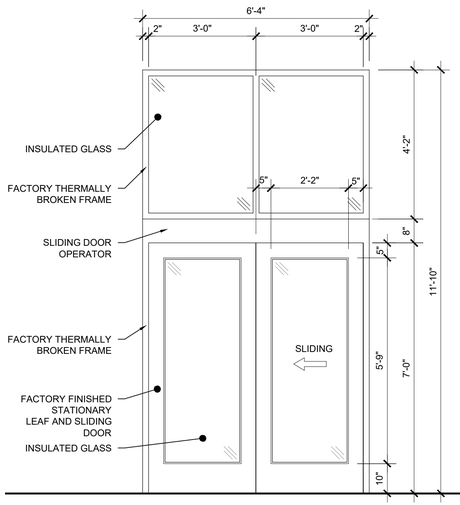

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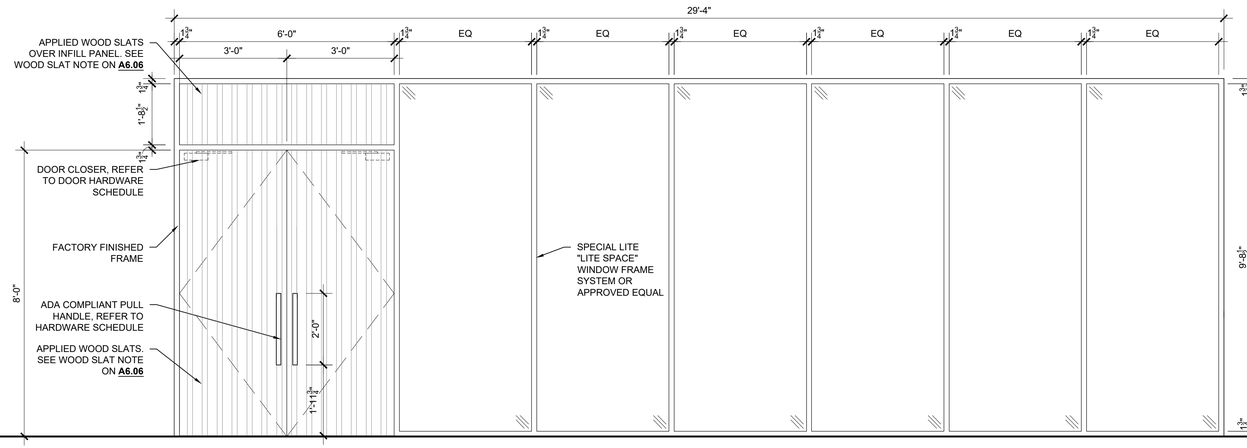

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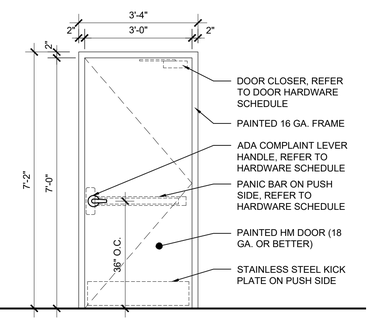

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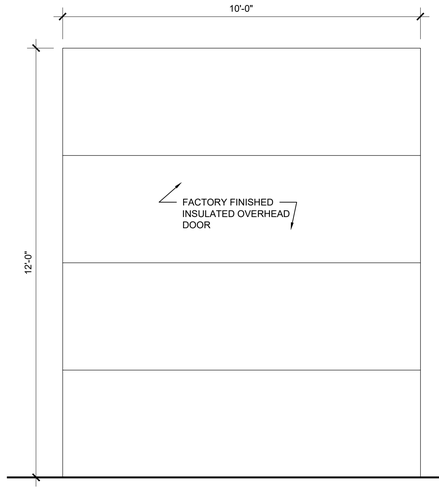

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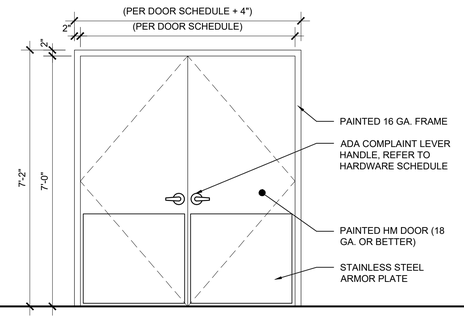

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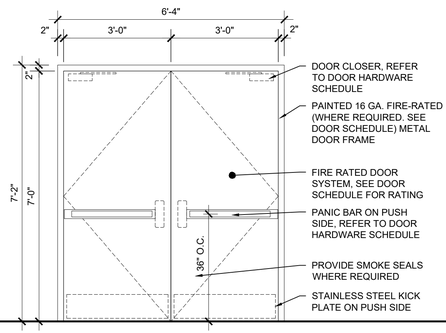

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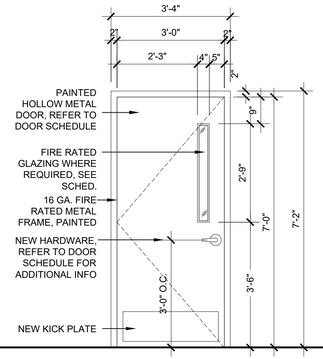
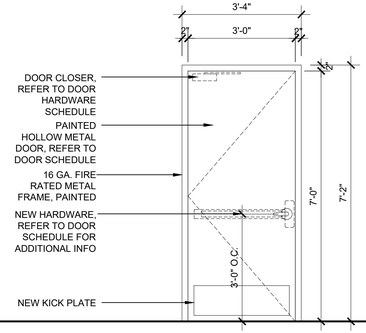


DOOR TYPE 'J'



DOOR TYPE 'K'

Door Types

1/2" = 1'-0"

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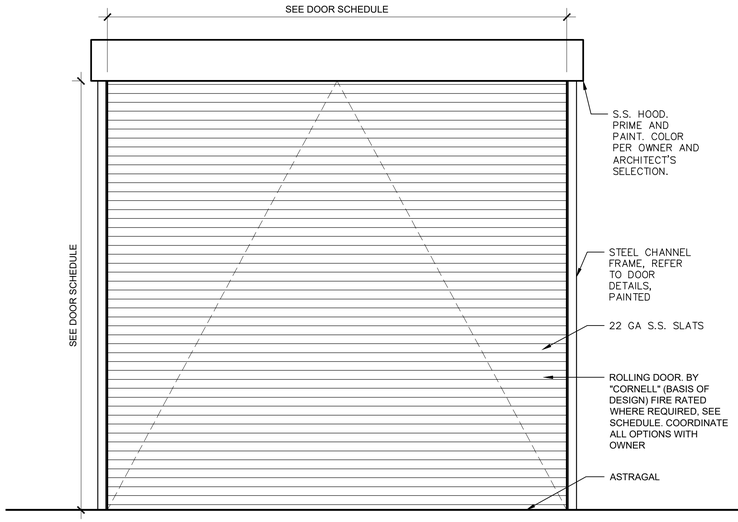
DOOR & FRAME TYPES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A601

A6.02



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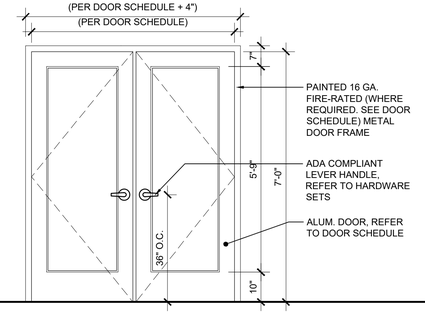

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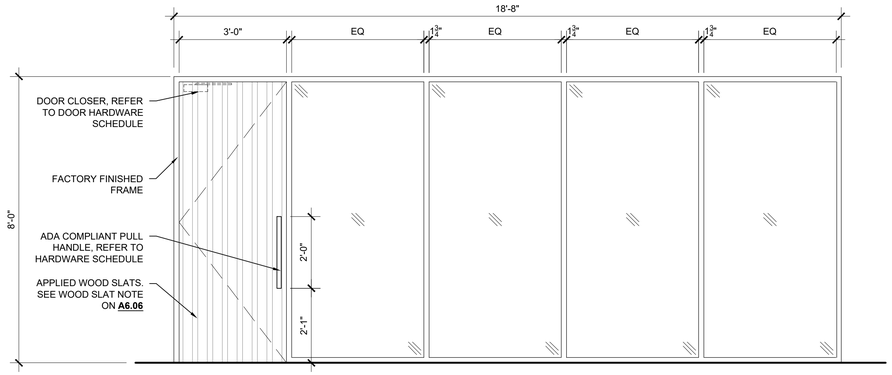

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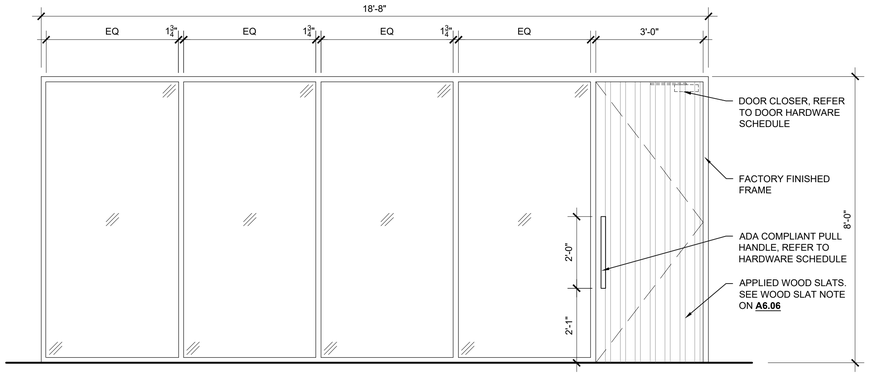

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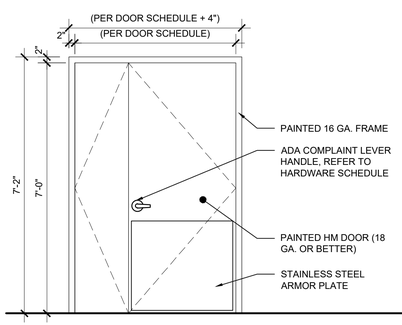
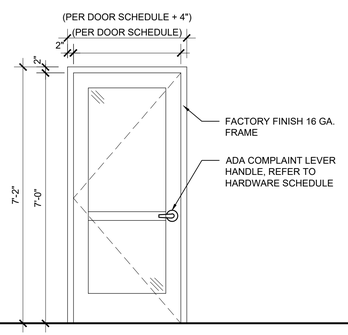
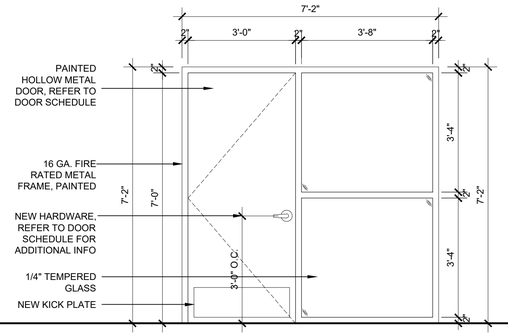


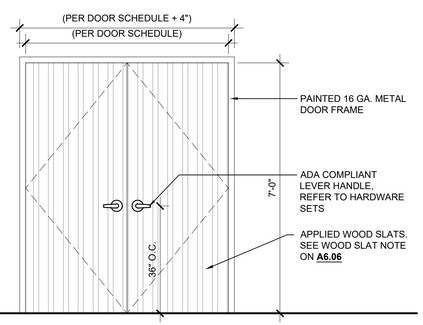
DOOR TYPE 'Q'



DOOR TYPE 'R'



DOOR TYPE 'S'



DOOR TYPE 'T'

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DOOR & FRAME TYPES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 41552O1A601

A6.03

Abbreviation	Name
ADA	Adams Rite Manufacturing Co
GLY	Glynn-Johnson Corp
ILC	Ilco
IVE	H.B. Ives
LCN	Lcn Commercial Division
SCH	Schlage Lock Company
VON	Von Duprin
ZER	Zero International Inc

Hardware Group No. 01

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY TWP CON	628	IVE
1	EA	ELEC PANIC HARDWARE	LD-RX-35A-NL-OP-388-299-CON	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	LONG DOOR PULL	9264F 36" O	630	IVE
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	EA	PA MOUNTING PLATE	4050A-18PA	689	LCN
1	EA	WIRE HARNESS	CON-LENGTH TO SUIT (CONNECT POWER TRANSFER TO ELECTRIFIED LOCKING DEVICE)		SCH
1	EA	WIRE HARNESS	CON-6W (WIRE LEADS FOR CONNECTION TO POWER)		SCH

NOTES:

1. DOOR CONTACT(S) - WORK OF DIVISION 28
2. SEALS BY DOOR/FRAME MANUFACTURER
3. THRESHOLD PER SILL DETAIL

Hardware Group No. 01.1

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	LD-35A-L-M51-299	626	VON
1	EA	MORTISE CYLINDER	20-061 ICX 36-083	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	EA	PA MOUNTING PLATE	4050A-18PA	689	LCN

NOTES:

1. SEALS BY DOOR/FRAME MANUFACTURER
2. THRESHOLD PER SILL DETAIL

Hardware Group No. 01A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY TWP CON	628	IVE
2	EA	ELEC PANIC HARDWARE	LD-RX-3527A-NL-OP-LBR-388-CON	626	VON
2	EA	RIM CYLINDER	20-057 ICX	626	SCH
2	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	LONG DOOR PULL	9264F 36" O	630	IVE
2	EA	SURFACE CLOSER	4050A CUSH	689	LCN
2	EA	PA MOUNTING PLATE	4050A-18PA	689	LCN
2	EA	WIRE HARNESS	CON-LENGTH TO SUIT (CONNECT POWER TRANSFER TO ELECTRIFIED LOCKING DEVICE)		SCH
2	EA	WIRE HARNESS	CON-6W (WIRE LEADS FOR CONNECTION TO POWER)		SCH

NOTES:

1. DOOR CONTACT(S) - WORK OF DIVISION 28
2. SEALS BY DOOR/FRAME MANUFACTURER
3. THRESHOLD PER SILL DETAIL

Hardware Group No. 01A.1

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
2	EA	PANIC HARDWARE	CD-9827-NL-OP-LBR-110MD	630	VON
2	EA	RIM CYLINDER	20-057 ICX	626	SCH
2	EA	MORTISE CYLINDER	20-061 ICX XQ11-948 36-083	626	SCH
4	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	LONG DOOR PULL	9264F 36" O	630	IVE
2	EA	SURFACE CLOSER	4050A CUSH	689	LCN
2	EA	KICK PLATE	8400 10" B-CS	630	IVE
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 01A.2

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
2	EA	PANIC HARDWARE	LD-9827-EO-LBR	630	VON
2	EA	SURFACE CLOSER	4050A CUSH	689	LCN
2	EA	KICK PLATE	8400 10" B-CS	630	IVE
2	SET	MEETING STILE	328AA-S	AA	ZER
1	SET	GASKETING	328AA-S	AA	ZER
2	EA	DOOR SWEEP	39A	A	ZER
4	EA	MOUNTING BRACKET	328SPB		ZER

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 01A.3

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-499F	630	VON
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBRAFL-499F	630	VON
2	EA	SURFACE CLOSER	4050A EDA	689	LCN
2	EA	KICK PLATE	8400 10" B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 01A.4

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-499F	630	VON
1	EA	FIRE EXIT HARDWARE	9827-L-NL-F-LBRAFL-M51-499F	630	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	SURFACE CLOSER	4050A EDA	689	LCN
2	EA	KICK PLATE	8400 10" B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 01A.5

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-499F	630	VON
1	EA	FIRE EXIT HARDWARE	9827-L-NL-F-LBRAFL-M51-499F	630	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	SURFACE CLOSER	4050A CUSH	689	LCN
2	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 01B

Provide each DE door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
2	EA	PANIC HARDWARE	LD-9827-EO-LBR	630	VON
2	EA	SURFACE CLOSER	4011T DE	689	LCN
2	EA	WALL STOP	WS406/407CVX	630	IVE
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 01C

Provide each DE door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-499F	630	VON
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBRAFL-499F	630	VON
2	EA	SURFACE CLOSER	4011T DE	689	LCN
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTES:

1. ASTRAGAL AS REQUIRED PROVIDED BY DOOR/FRAME MANUFACTURER
2. THRESHOLD PER SILL DETAIL

Hardware Group No. 01D

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
2	EA	PANIC HARDWARE	LD-9827-L-BE-LBR-06	630	VON
2	EA	SURFACE CLOSER	4050A EDA	689	LCN
2	EA	WALL STOP	WS406/407CVX	630	IVE
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTES:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 02

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 02.1

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	L9080T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A EDA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 02.2

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	L9080T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 02.3

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	OH STOP	410S	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA ST-5003	689	LCN
1	EA	MOUNTING PLATE	4050A-18 ST-5003	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 02.4

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-NL-F-06	630	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A EDA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 02B

Provide each UEP door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 5 X 4.5	652	IVE
1	SET	AUTO FLUSH BOLT	FB32	630	IVE
1	EA	STOREROOM LOCK	L9080T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	ARMOR PLATE	8400 32" B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 03

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	L9010 M51A	630	SCH
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 04

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 M51A L583-363 L283-722	630	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

ABBREVIATIONS

Abbreviation	Name
"PR"	PAIR
"SGL"	SINGLE
"DE"	DOUBLE EGRESS
"UEP"	UNEQUAL PAIR

Date	10/15/21
Checked	CC
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MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:

1 PERMIT SET 10/15/21

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DOOR HARDWARE
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 41552O1A601

A6.04

Hardware Group No. 04.2

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	PRIVACY LOCK	L9040 M51A L583-363 L283-722	630	SCH
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 05

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T M51A 09-544	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 05.1

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T M51A 09-544	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A EDA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 05.2

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T M51A 09-544	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 07

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 07.1

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CYL X TURN DEAD LOCK	L460T L583-363	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	LONG DOOR PULL	PR 9264F 36" N	630	IVE
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 07.3

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T M51A	630	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	OH STOP	450S (USE WHERE DOOR DOES NOT OPEN AGAINST A WALL)	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA ST-5003	689	LCN
1	EA	MOUNTING PLATE	4050A-18 ST-5003	689	LCN
1	EA	KICK PLATE	8400 10" B-CS	630	IVE
1	EA	GASKETING	488FSBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
3	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 07A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	628	IVE
1	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	DEADBOLT	MS1850, TO SUIT DOOR	628	ADA
1	EA	MORTISE CYLINDER	20-062 ICX X K510-711 36-083	626	SCH
1	EA	MORTISE ADA THUMBTURN	ADA7181 863A	626	ILC
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	LONG DOOR PULL	PR 9266F 36" N	630	IVE
2	EA	OH STOP	410S	630	GLY
2	EA	SURFACE CLOSER	4050A RW/PA ST-5003	689	LCN
2	EA	MOUNTING PLATE	4050A-18 ST-5003	689	LCN

NOTES:

1. SEALS BY DOOR/FRAME MANUFACTURER
2. THRESHOLD PER SILL DETAIL

Hardware Group No. 07A.1

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
2	EA	PANIC HARDWARE	9827-L-LBR-M51	630	VON
2	EA	RIM CYLINDER	20-057 ICX	626	SCH
2	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	SURFACE CLOSER	4050A EDA	689	LCN
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. 07A.2

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
2	EA	PANIC HARDWARE	9827-L-LBR-M51	630	VON
2	EA	RIM CYLINDER	20-057 ICX	626	SCH
2	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
2	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA	GASKETING	488SBK PSA (PROVIDE AT SMOKE AND/OR FIRE RATED DOORS)	BK	ZER
2	EA	SILENCER	SR64 (OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED)	GRY	IVE

NOTE:

1. THRESHOLD PER SILL DETAIL

Hardware Group No. CR01

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY TWP CON	628	IVE
1	EA	ELEC PANIC HARDWARE	RX-QEL-35A-NL-OP-388-299-CON 24 VDC	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	LONG DOOR PULL	9264F 36" O	630	IVE
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	EA	PA MOUNTING PLATE	4050A-18PA	689	LCN
1	EA	WIRE HARNESS	CON-LENGTH TO SUIT (CONNECT POWER TRANSFER TO ELECTRIFIED LOCKING DEVICE)		SCH
1	EA	WIRE HARNESS	CON-6W (WIRE LEADS FOR CONNECTION TO POWER)		SCH
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON

NOTES:

1. CARD READER(S) - WORK OF DIVISION 28
2. DOOR CONTACT(S) - WORK OF DIVISION 28
3. SEALS BY DOOR/FRAME MANUFACTURER
4. THRESHOLD PER SILL DETAIL

Hardware Group No. CR01.1

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 CON TW8	630	IVE
1	EA	ELEC PANIC HARDWARE	LD-RX-98-L-M996-M51-FSE-CON	630	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	SURFACE CLOSER	4050A CUSH	689	LCN
1	SET	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
2	EA	MOUNTING BRACKET	328SPB		ZER
1	EA	WIRE HARNESS	CON-LENGTH TO SUIT (CONNECT POWER TRANSFER TO ELECTRIFIED LOCKING DEVICE)		SCH
1	EA	WIRE HARNESS	CON-6W (WIRE LEADS FOR CONNECTION TO POWER)		SCH

NOTES:

1. CARD READER(S) - WORK OF DIVISION 28
2. DOOR CONTACT(S) - WORK OF DIVISION 28
3. POWER SUPPLY) - WORK OF DIVISION 28
4. THRESHOLD PER SILL DETAIL

Hardware Group No. RU

Provide each RU door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

NOTE:

HARDWARE BY DOOR/FRAME MANUFACTURER

Hardware Group No. SL

Provide each SL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	20-062 ICX X K510-711 36-083	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH

NOTE:

1. BALANCE OF HARDWARE BY DOOR/FRAME MANUFACTURER

ABBREVIATIONS

Abbreviation	Name
"PR"	PAIR
"SGL"	SINGLE
"DE"	DOUBLE EGRESS
"UEP"	UNEQUAL PAIR

Date 10/15/21
Checked CC
Drawn TH

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT
License No. 32407

Revisions:

1 PERMIT SET 10/15/21

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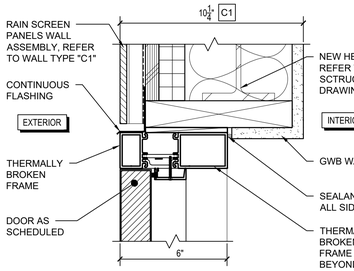
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

DOOR HARDWARE

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

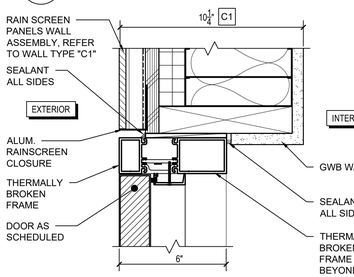
Job No. 4.1552.01
File No. 4155201A601

A6.05



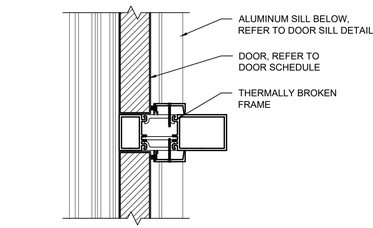
Door Head Detail

1 A6.06 — 3"= 1'-0"



Door Jamb Detail

2 A6.06 — 3"= 1'-0"



Door Mullion Detail

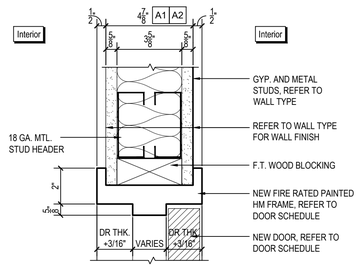
3 A6.06 — 3"= 1'-0"

Door Sill Detail

4 A6.06 — 3"= 1'-0"

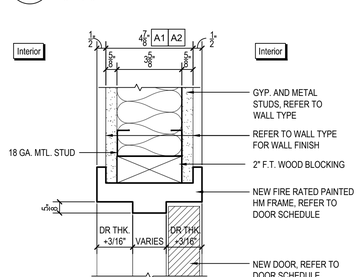
Door Sill Detail

5 A6.06 — 3"= 1'-0"



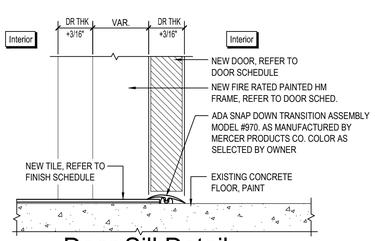
Door Head Detail

6 A6.06 — 3"= 1'-0"



Door Jamb Detail

7 A6.06 — 3"= 1'-0"



Door Sill Detail

8 A6.06 — 3"= 1'-0"

Door Sill Detail

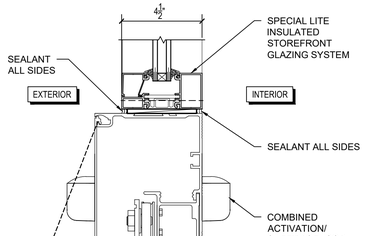
9 A6.06 — 3"= 1'-0"

Door Sill Detail

10 A6.06 — 3"= 1'-0"

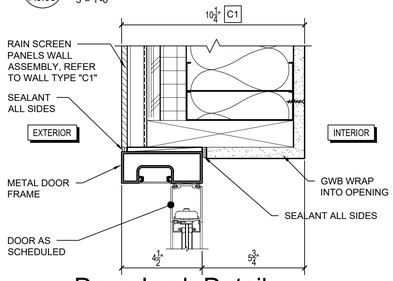
Door Sill Detail

11 A6.06 — 3"= 1'-0"



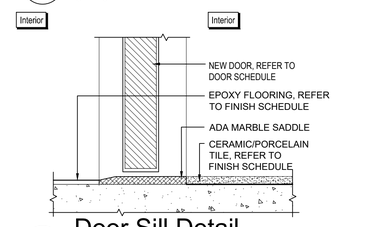
Door Head & Sill Detail

11 A6.06 — 3"= 1'-0"



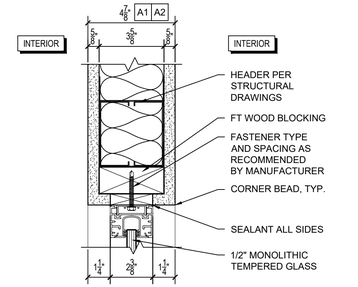
Door Jamb Detail

12 A6.06 — 3"= 1'-0"



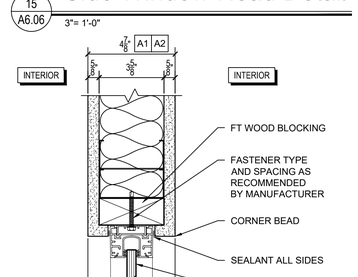
Door Sill Detail

13 A6.06 — 3"= 1'-0"



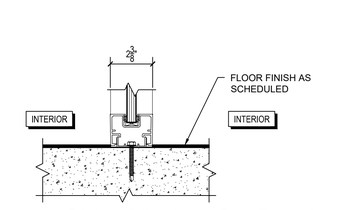
Side Window Head Detail

15 A6.06 — 3"= 1'-0"



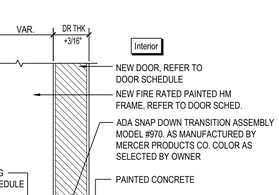
Side Window Jamb Detail

16 A6.06 — 3"= 1'-0"



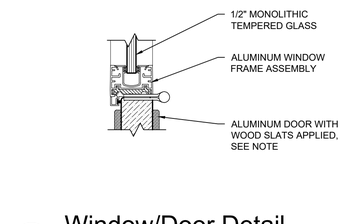
Side Window Sill Detail

17 A6.06 — 3"= 1'-0"



Window/Door Detail

18 A6.06 — 3"= 1'-0"

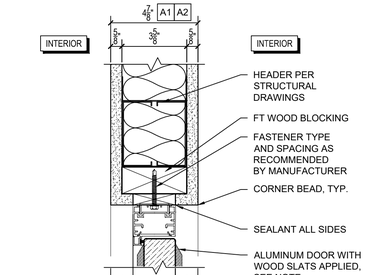


Door Sill Detail

14 A6.06 — 3"= 1'-0"

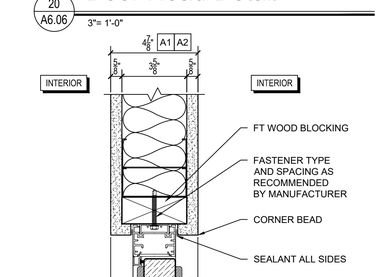
Door Sill Detail

19 A6.06 — 3"= 1'-0"



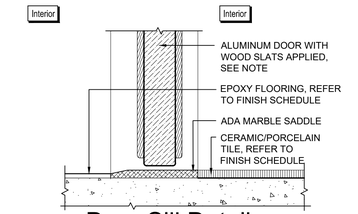
Door Head Detail

20 A6.06 — 3"= 1'-0"



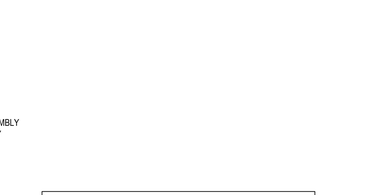
Door Jamb Detail

21 A6.06 — 3"= 1'-0"



Door Sill Detail

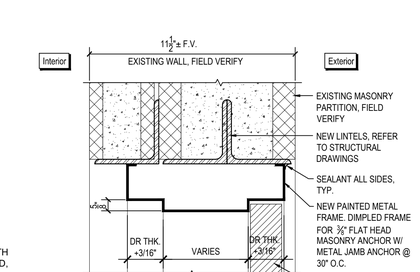
22 A6.06 — 3"= 1'-0"



Door Sill Detail

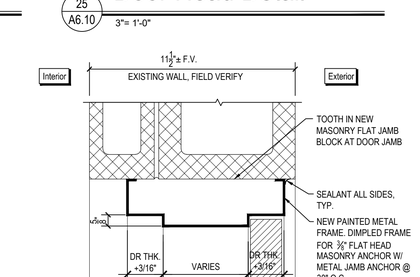
23 A6.06 — 3"= 1'-0"

WOOD SLAT NOTE: WHERE INDICATED, CONTRACTOR TO PROVIDE AND INSTALL ±3/8" THICK WOOD SLAT, SPECIES AND FINISH AS SELECTED BY OWNER. MECHANICALLY ATTACH WITH CONCEALED FASTENERS, TYP. BEVEL AS REQUIRED TO ENSURE THE OPERATION OF THE DOOR IS NOT OBSTRUCTED



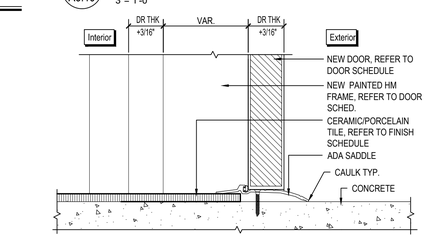
Door Head Detail

25 A6.10 — 3"= 1'-0"



Door Jamb Detail

26 A6.10 — 3"= 1'-0"



Door Sill Detail

27 A6.06 — 3"= 1'-0"

Date	10/15/21
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Drawn	CC

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1 PERMIT SET 10/15/21

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Title REGISTERED ARCHITECT License No. 32407

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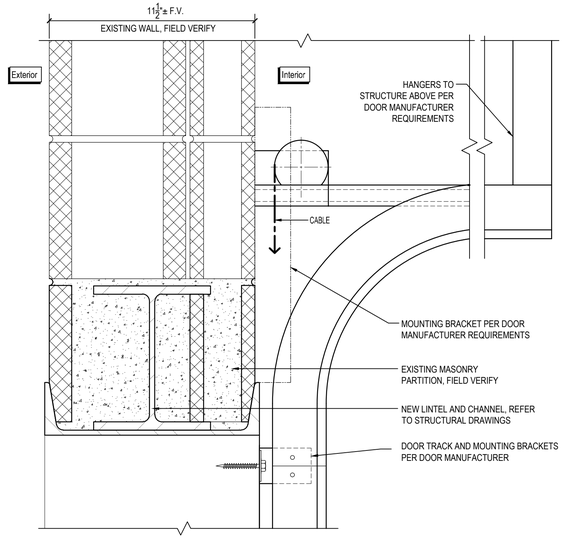
DOOR & FRAME DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A601

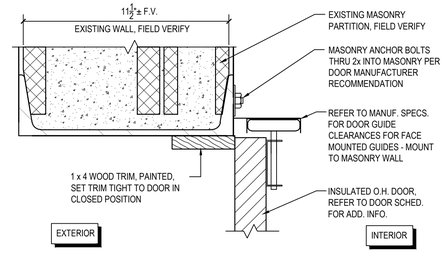
A6.06



Overhead Door Head Detail

1 / A6.07 — 3"= 1'-0"

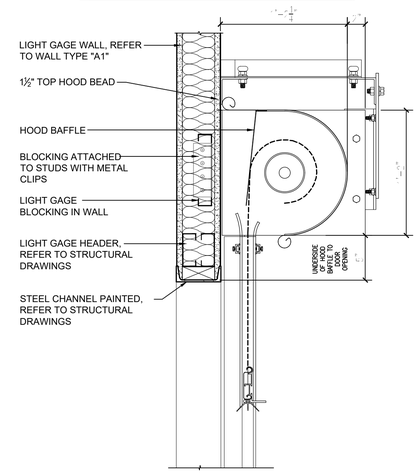
Door Omitted For Clarity



Overhead Door Jamb Detail

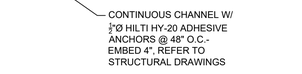
2 / A6.07 — 3"= 1'-0"

NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR METAL STUD HEAD SUPPORT FOR ARCHITECT APPROVAL



Coiling Door Head Detail

5 / A6.07 — 1 1/2" = 1'-0"



Coiling Door Jamb Detail

6 / A6.07 — 1 1/2" = 1'-0"

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
The REGISTERED ARCHITECT License No. 32407

Revisions:

1 PERMIT SET 10/15/21

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DOOR & FRAME DETAILS

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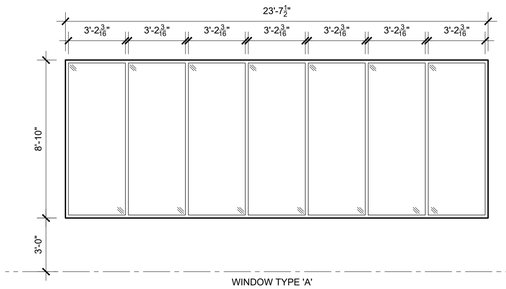
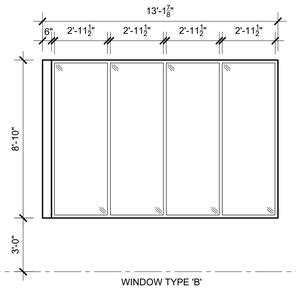
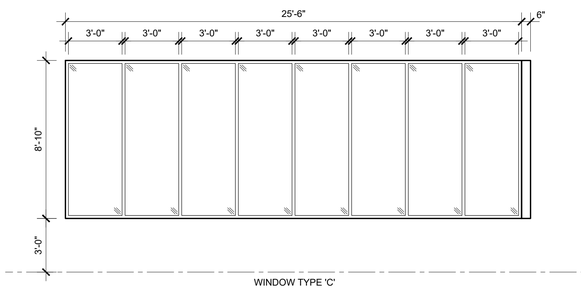
A6.07



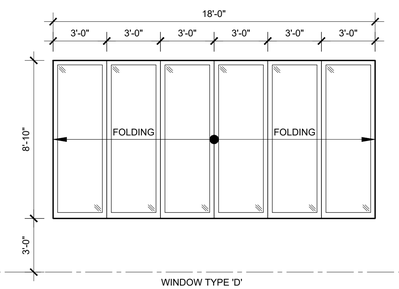
WINDOW TYPE 'A'



WINDOW TYPE 'B'



WINDOW TYPE 'C'



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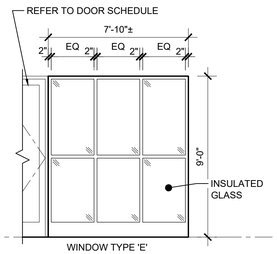
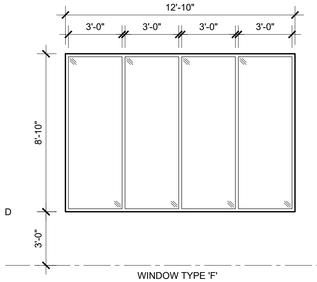
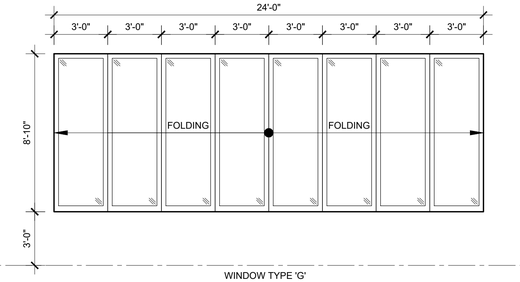


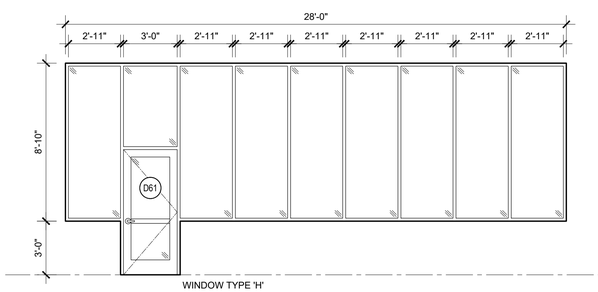
WINDOW TYPE 'E'



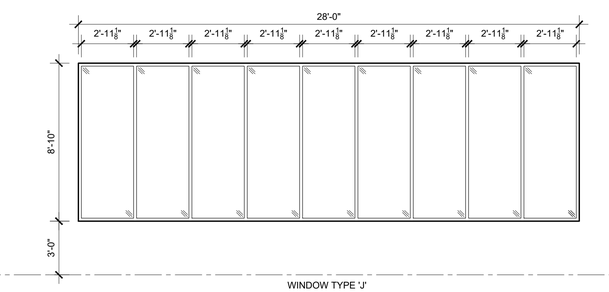
WINDOW TYPE 'F'



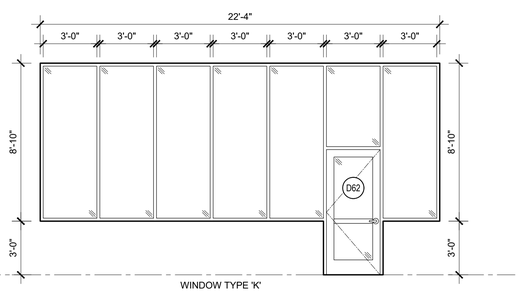
WINDOW TYPE 'G'



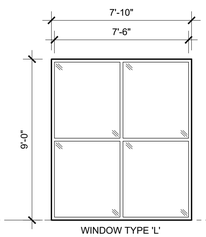
WINDOW TYPE 'H'



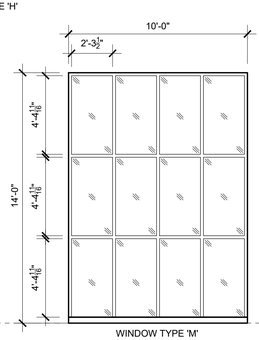
WINDOW TYPE 'J'



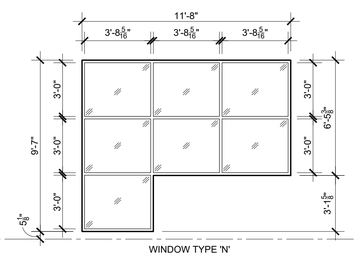
WINDOW TYPE 'K'



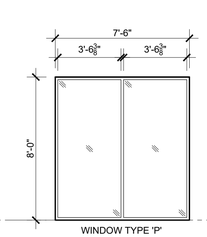
WINDOW TYPE 'L'



WINDOW TYPE 'M'



WINDOW TYPE 'N'
WINDOW TYPE 'Q' IS "N" REVERSE



WINDOW TYPE 'P'

WINDOW SCHEDULE

WINDOW NO.	WINDOW TYPE	ROOM NAME/ NUMBER	OPERATION	MATERIAL	GLAZING	ROUGH OPENING		WINDOW DETAILS			NOTES
						WIDTH	HEIGHT	HEAD	JAMB	SILL	
FIRST FLOOR											
W01	A	BREWERY / 105	FIXED	ALUM.	TEMP.	23'-7 ½"	8'-10"	1/A6.11	2/A6.11	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W02	B	BREWERY / 105	FIXED	ALUM.	TEMP.	13'-2"	8'-10"	4/A6.11	2/A6.11 SIM.	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W03	C	BREWERY / 105	FIXED	ALUM.	TEMP.	26'-0"	8'-10"	4/A6.11	8/A6.11	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W04	D	BAR / 104	OPERABLE	ALUM.	TEMP.	18'-0"	8'-10"	5/A6.11	6/A6.11	7/A6.11	"NANAWALL" EXTERIOR STOREFRONT SYSTEM MODEL "SL-70-CL"
W05	E	LOBBY RECEPT. / 102	FIXED	ALUM.	TEMP.	7'-10"	9'-0"	10/A6.11	11/A6.11	1/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W06	E	LOBBY RECEPT. / 102	FIXED	ALUM.	TEMP.	7'-10"	9'-0"	10/A6.11	11/A6.11	1/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W07	E MIR.	BEER HALL / 123	FIXED	ALUM.	TEMP.	12'-10"	9'-0"	4/A6.11	2/A6.11	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W08	G	BEER HALL / 123	OPERABLE	ALUM.	TEMP.	24'-0"	8'-10"	5/A6.11	6/A6.11	7/A6.11	"NANAWALL" EXTERIOR STOREFRONT SYSTEM MODEL "SL-70-CL"
W09	H	EXIST. GYM TENANT AREA	FIXED	ALUM.	TEMP.	28'-0"	8'-10"	1/A6.11	2/A6.11	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W10	J	EXIST RETAIL TENANT AREA	FIXED	ALUM.	TEMP.	28'-0"	8'-10"	1/A6.11	2/A6.11	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W11	K	EXIST RETAIL TENANT AREA	FIXED	ALUM.	TEMP.	22'-4"	8'-10"	1/A6.11	2/A6.11	3/A6.11	"SPECIAL LITE" THERMALLY BROKEN FRAMING SL-600TB
W12	L	LOBBY RECEPT. / 102	FIXED	ALUM.	TEMP.	7'-10"	9'-0"	15/A6.11	16/A6.11	17/A6.11	"TGP FIREFRAMES" DESIGNER SERIES, "OH" 45 MIN RATED ASSEMBLY PER NFPA 257
W13	L	LOBBY RECEPT. / 102	FIXED	ALUM.	TEMP.	7'-10"	9'-0"	15/A6.11	16/A6.11	17/A6.11	"TGP FIREFRAMES" DESIGNER SERIES, "OH" 45 MIN RATED ASSEMBLY PER NFPA 257
W14	M	LOBBY RECEPT. / 102	FIXED	ALUM.	TEMP.	10'-0"	14'-0"	15/A6.11	16/A6.11	17/A6.11	"TGP FIREFRAMES" DESIGNER SERIES, "OH" 45 MIN RATED ASSEMBLY PER NFPA 257
W15	N	TAPROOM / 103	FIXED	ALUM.	TEMP.	11'-8"	8'-10"	20/A6.11	21/A6.11	22/A6.11	"SPECIAL LITE" INTERIOR ALUMINUM FRAMING SYSTEM "LITE SPACE"
W16	Q	TAPROOM / 103	FIXED	ALUM.	TEMP.	11'-8	8'-10"	20/A6.11	21/A6.11	22/A6.11	"SPECIAL LITE" INTERIOR ALUMINUM FRAMING SYSTEM "LITE SPACE"
W17	P	TAPROOM / 103	FIXED	ALUM.	TEMP.	7'-6"	8'-0"	20/A6.11	21/A6.11	22/A6.11	"SPECIAL LITE" INTERIOR ALUMINUM FRAMING SYSTEM "LITE SPACE"

Energy Code Requirements

2020 ECC OF N.Y. - Table C402.4

Climate Zone: 5

Vertical Fenestration - **U-factor**

Fixed fenestration:	0.38
Operable fenestration:	0.45
Entrance doors:	0.77

Vertical Fenestration - **SHGC**

PF < 0.2:	0.38
0.2 ≤ PF < 0.5:	0.46
PF ≥ 0.5:	0.61
Skylight U-factor	0.50
Skylight SHGC	0.40

NOTE: ALL EXTERIOR DOORS AND WINDOWS SHALL MEET OR EXCEED THE ENERGY CODE MINIMUM REQUIREMENTS.

Window Types

1/4" = 1'-0"

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:
1 PERMIT SET 10/15/21

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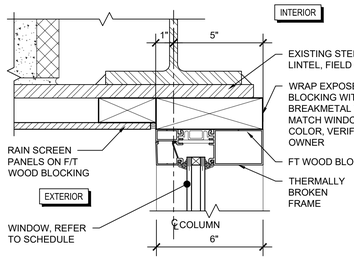
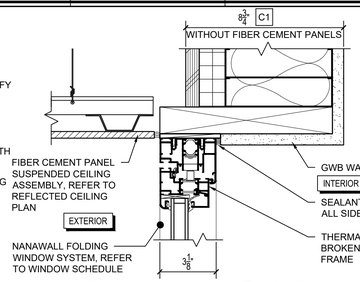
WINDOW SCHEDULE & WINDOW TYPES
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A610

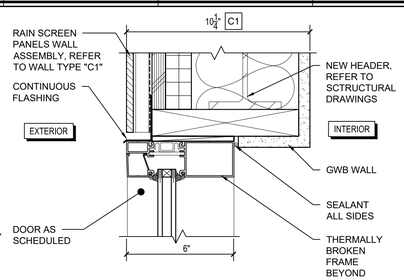
A6.10



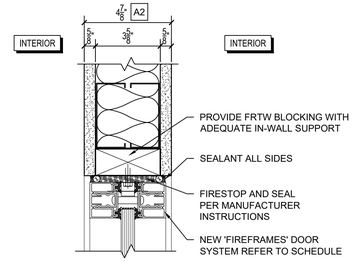
1 A6.11 — **Window Head Detail** — 3"= 1'-0"



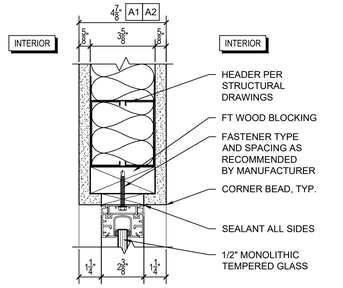
5 A6.11 — **Window Head Detail** — 3"= 1'-0"



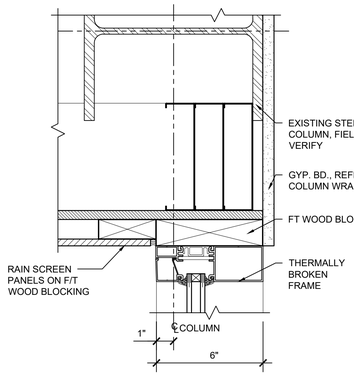
10 A6.11 — **Window Head Detail** — 3"= 1'-0"



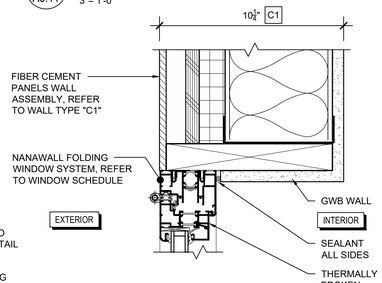
15 A6.11 — **Window Head Detail** — 3"= 1'-0"



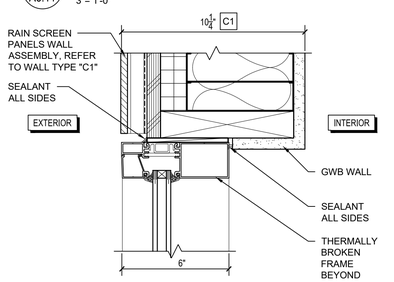
20 A6.11 — **Window Head Detail** — 3"= 1'-0"



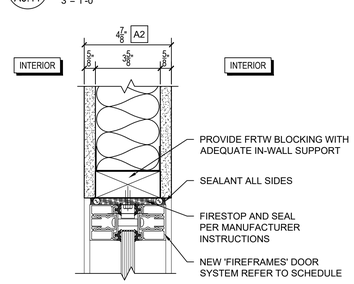
2 A6.11 — **Window Jamb Detail** — 3"= 1'-0"



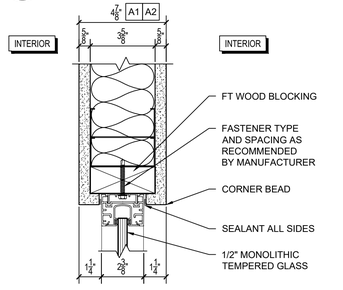
6 A6.11 — **Window Jamb Detail** — 3"= 1'-0"



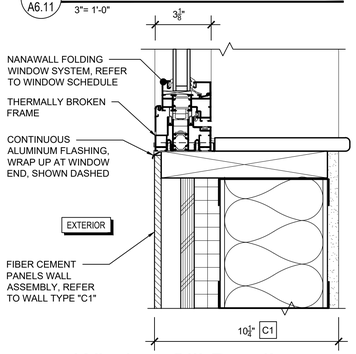
11 A6.11 — **Window Jamb Detail** — 3"= 1'-0"



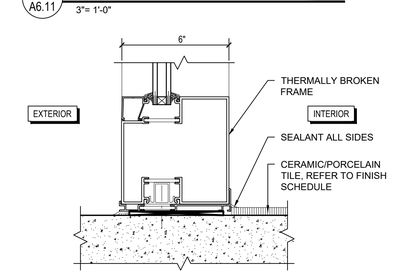
16 A6.11 — **Window Jamb Detail** — 3"= 1'-0"



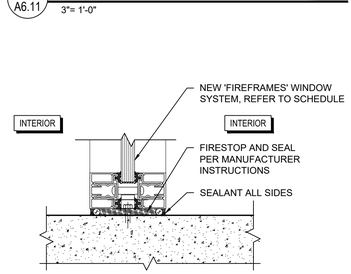
21 A6.11 — **Window Jamb Detail** — 3"= 1'-0"



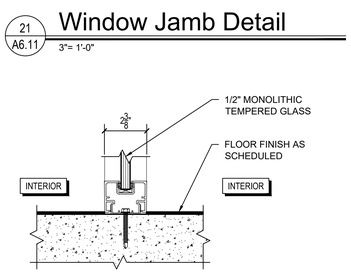
7 A6.11 — **Window Sill Detail** — 3"= 1'-0"



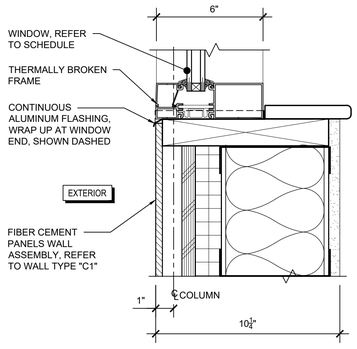
12 A6.11 — **Window Sill Detail** — 3"= 1'-0"



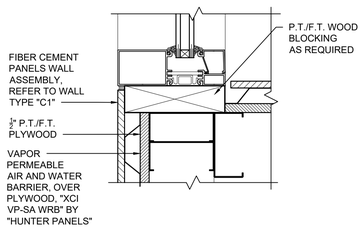
17 A6.11 — **Window Sill Detail** — 3"= 1'-0"



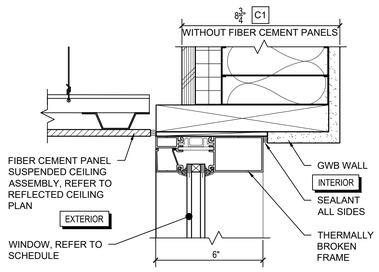
22 A6.11 — **Window Sill Detail** — 3"= 1'-0"



3 A6.11 — **Window Sill Detail** — 3"= 1'-0"



8 A6.11 — **Window Jamb Detail** — 3"= 1'-0"



4 A6.11 — **Window Head Detail** — 3"= 1'-0"

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:

1	PERMIT SET 10/15/21

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WINDOW DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

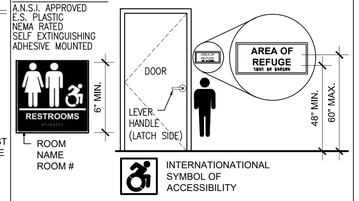
File No. 4155201A610

A6.11

ADA SIGNAGE

1. LETTERS AND NUMERALS MUST BE RAISED 1/32" FROM SIGN SURFACE.
2. CHARACTER HEIGHT MUST BE AT LEAST 5/8" BUT NOT EXCEED 2".
3. TYPE STYLE FOR LETTERS AND NUMBERS SHALL BE SANS SERIF OR SIMPLE SERIF.
4. WORDS AND NUMBERS MUST BE CONVERTED INTO GRADE 2 BRAILLE, AND BE APPLIED TO SIGN.
5. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW PICTOGRAM.

ACCESSIBILITY SIGN
A.N.S.I. APPROVED
E.S. PLASTIC
NEMA RATED
SELF EXTINGUISHING
ADHESIVE MOUNTED



NOTE:
SIGNAGE SHALL COMPLY WITH ICC A117.1 REQUIREMENTS FOR VISUAL CHARACTERS AND INCLUDE THE INTERNATIONAL SYMBOL FOR ACCESSIBILITY. PICTOGRAM SHOWN FOR REFERENCE PURPOSES.

1. SIGNAGE MUST BE A.N.S.I. APPROVED E.S. PLASTIC, NEMA RATED, SELF EXTINGUISHING & ADHESIVE MOUNTED
2. ALL SIGNAGE SHALL CONFORM WITH THE ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES GUIDELINES IN ACCORDANCE WITH ICC/ANSI A117.1-2003
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED SIGNAGE. COORDINATE ROOM NAMES AND NUMBERS WITH TENANT'S REQUIREMENTS.
4. APPROXIMATE SIZE OF ADA ROOM SIGNAGE IS 6" X 6" FOR TOILET ROOMS WITH PICTOGRAMS. SIZE MAY CHANGE UPON NUMBER OF CHARACTERS. REFER TO ICC/ANSI A117.1-2009 AND COORDINATE WITH OWNERS REQUIREMENTS FOR ALL NEW INTERIOR SIGNAGE.

Finish Schedule Legend

PAINT (BENJAMIN MOORE):

PT: ANY WALLS WITHOUT A SPECIFIC COLOR ARE TBD
- PT-1: OC-137, SEBRING WHITE (CONF. ACCENT WALL)
- PT-2: OC-140, MORNING DEW (BEER HALL)
- PT-3: 2124-10, WROUGHT IRON (I-BEAM)
- PT-4: 2137-40 (COOLER UPPER WALL)
- PT-5: 2137-50 (CORE WALLS & RETAIL)
- PT-6: 2124-20, TROUT GRAY (BATHROOM WALLS)
- PT-7: HC-162 BREWSTER GRAY (SMALL BATHROOM WALLS)

FRP:

FRP-1: 8' TALL FRP WALL PANEL (BREWERY), MANUF./COLOR TBD

STONE/TILE:

- ST-1: PASSERI TILE, RON BRI, 0210 DARK
- ST-2: GARDEN STATE TILE, CARBON NATURAL 6 X 24, GSC76-328 (WATERFALL AND BED)
- ST-3 PORCELAIN WALL/FLOOR TILE TBD. ALLOW FOR (2) COLOR SELECTIONS.
- ST-3.1: PORCELAIN WALL BASE TO MATCH ST-3
- ST-4: FESSENDEN HALL, QUARTZ, PEWTER, CQ806 (BAR COUNTERTOP)
- ST-5: ARGELITH, ARKONN, WHITE, HEXAGONAL, R11 (BREWERY FLOOR FIELD TILE)
- ST-5.1: ARGELITH, ARKONN, WHITE MATCHING BASE AND CORNER TILE
- ST-6: GARDEN STATE TILE, TABULA, CEMBRO RETT 8 X 48, ALF 7350151 (OUTDOOR FLOORING)
- ST-7: ARGELITH, LIGHT GRAY, HEXAGONAL, R11 (BREWERY FLOOR ACCENT TILE & AROUND THE DRAINS)
- ST-8: STONE SOURCE, SHADES HEX, NIGHT MATTE PORCELAIN (BAR FACE)
- ST-9: STONE SOURCE, NIGHT, 02261, 12" X 24" (BATHROOM FLOOR ACCENT TILE)
- ST-10: STONE SOURCE, SHADE NIGHT, MATTE, 12" X 24" (BATHROOM FLOOR FIELD TILE)
- ST-11: GARDEN STATE TILE, VELVET MURALES, 12X24, UNIOVVEMUR 1224 (BATHROOM ACCENT WALLS)
- ST-12: SWISS PEARL, CARAT AGATE 7219 (PATIO WALL)
- ST-13: SWISS PEARL, CARAT ONYX 7091-11 (PATIO WALL)
- ST-14: PORCELAIN TILE BASE

METAL:

MT-1: S.ST'L (COOLER)

WOOD:

- WD-1: RESERVED
- WD-2: RULON, SIZE TBD (WOOD GRILL PARTITION IN THE LOUNGE AREAS)
- WD-3: RULON, 2"X GLASS WALL HEIGHT X GLASS PARTITION WIDTH (CUSTOM WOOD TRIM EDGE OF THE GLASS WALL BETWEEN BEER HALL AND TAP ROOM)
- WD-4: CREATED HARDWOOD, BRONZE GRADE WALNUT, 96" X 30" X 1.625" WITH STRAIGHT EDGE SOFTENED TO 1/16" (MEN'S ROOM URINAL DIVIDER)

PLASTIC LAMINATE:

- PL-1: FORMICA, BLACKENED STEEL
- PL-2: FORMICA, PLANKED URBAN OAK
- PL-3: FORMICA, WHITE

UPHOLSTERY:

- UP-1: OPUZEN, #4826-5956, TUIN, GREY/BLACK. BANQUETTE BACK.
- UP-2: OPUZEN, #7755-8513, CONTEXT, RAVEN BLACK. BANQUETTE SEAT

FLOOR:

- FL-1: EPOXY FLOORING COLOR TO MATCH DURAMEN METALLIC EPOXY, ALUMINUM. (BEER HALL)
- FL-2: EPOXY FLOORING COLOR TO MATCH DURAMEN METALLIC EPOXY (BEER HALL) JET BLACK AND SUNRISE (TAP ROOM)
- FL-3: VINYL TILE, MOHAWK GROUP, SECOND HOME C0141, 7.56" X 47.80"
- FL-3.1: VINYL WALL BASE, MANUF./COLOR TBD
- FL-4: URETHANE MODIFIED CONCRETE FLOOR SYSTEM BY DURAMEN WITH INTEGRAL 4" BASE (BASIS OF DESIGN) WITH NON-SLIP BROADCAST. COLOR TO BE SELECTED BY OWNER
- FL-5: PAINTED CONCRETE

Interior Finish General Notes

1. CONTRACTOR SHALL PREP ALL SUBFLOORS AS REQUIRED TO ACCEPT NEW FLOOR FINISHES.
2. FLOOR FINISH MATERIALS SHALL BE INSTALLED CONTINUOUS UNDER CASEWORK. INFORMATION ON PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND FLOOR FINISHES UNDER CASEWORK MAY NOT BE SHOWN FOR CLARITY.
3. ALL FLOOR PENETRATIONS SHALL BE SEALED WITH LISTED/RATED MATERIAL TO MAINTAIN INTEGRITY AND CONTINUITY OF FIRE ASSEMBLIES.
4. AT LOCATIONS WHERE THE EXISTING FLOOR FINISHES ARE TO REMAIN, DEMO ONLY AS MUCH AS REQUIRED TO ACCOMMODATE NEW PARTITIONS. WALL BASE AT THESE LOCATIONS SHALL MATCH EXISTING ADJACENT WALL BASE.
5. COLORS, PATTERNS AND TEXTURES OF ALL FINISH MATERIALS SHALL BE SELECTED BY OWNER. PROVIDE SAMPLES FROM MANUFACTURER'S FULL RANGE AS REQUIRED.
6. REFER TO MANUFACTURERS INSTRUCTIONS FOR ADDITIONAL INFORMATION ON FLOORING MATERIALS AND INSTALLATION.
7. AT LOCATIONS WHERE NEW FLOORING MEETS EXISTING FLOORING, THE GC SHALL CAREFULLY AND CLEANLY CUT EXISTING FLOORING AS REQUIRED TO ABUT NEW FLOOR FINISH. PROVIDE TRANSITION STRIP AT LOCATIONS WHERE FLOORING TYPE CHANGES. SEE PLANS AND LEGEND.

SURFACE PREPARATION NOTE:

WHERE REQUIRED, NEW FINISH FLOOR TO BE INSTALLED OVER SELF LEVELING MATERIAL. BASIS OF DESIGN TO BE 'CMP LEVEL 1' SELF-LEVELING WITH 'CMP LOCKDOWN' VAPOR SUPPRESSION SYSTEM. REFER TO FINISH PLANS OF INDIVIDUAL AREAS FOR ADDITIONAL INFORMATION. CONSULT INDIVIDUAL FLOORING MANUFACTURER TO VERIFY SURFACE PREPARATION REQUIREMENTS AND COMPATIBILITY.

INTERIOR FINISH SCHEDULE

ROOM NO.	ROOM NAME	SUB-FLOOR	FLOOR FINISH	BASE	BASE HEIGHT	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	NOTES	CEILING	CEILING HEIGHT	ROOM NO.
FIRST FLOOR													
100	MAIN ENTRANCE	EXIST. CONC.	ST-6	CONC.	6"	ST-12 ST-13	ST-12 ST-13		ST-12 ST-13		CT-4	11'-10"	100
101A	OUTDOOR SEATING	EXIST. CONC.	ST-6	CONC.	6"	ST-12 ST-13	ST-12 ST-13		ST-12 ST-13		CT-4	11'-10"	101A
101B	OUTDOOR SEATING	EXIST. CONC.	ST-6	CONC.	6"	ST-12 ST-13	ST-12 ST-13		ST-12 ST-13		CT-4	11'-10"	101B
102	LOBBY/RECEPTION	EXIST. CONC.	ST-6	ST-6	6"	PT-5	PT-5	PT-5	PT-5		CT-8	14'-0"	102
103	TAPROOM	EXIST. CONC.	FL-2	FL-2	6"	PT-5	PT-6	PT-6	PT-6		CT-9	-	103
104	BAR	EXIST. CONC.	FL-2	FL-2	-	-	-	-	-	REFER TO INTERIOR ELEVATIONS 6/A7.01 AND 5/A7.03	CT-2	8'-0"	104
105	BREWERY	EXIST. CONC.	ST-5 ST-7	ST-5.1	6"	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV	FLOOR FIELD: ST-5 (90%), ACCENT: (10%)	CT-3	-	105
105B	BOILER	EXIST. CONC.	ST-5	ST-5.1	6"	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV		CT-3	-	105B
105C	CRUSHER	EXIST. CONC.	ST-5	ST-5.1	6"	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV		CT-3	-	105C
105D	COOLER	EXIST. CONC.	FL-2	-	-	-	-	-	-	INTERIOR FINISH TO BE SELECTED BY OWNER	-	-	105D
105E	SOUR	EXIST. CONC.	ST-5	ST5.1	6"	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV		CT-3	-	105E
105F	LAB	EXIST. CONC.	ST-5	ST5.1	6"	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV	FRP-1 PT-ABV		CT-1	10'-0"	105F
106	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	106
107	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	107
108	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	108
109	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	109
110	BREAK ROOM	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	110
110A	CLOSET	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	110A
111	LOCKER ROOM	EXIST. CONC.	FL-3	FL-3.1	6"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	111
111A	TOILET	EXIST. CONC.	ST-3	ST-3.1	6"	ST-3	ST-3	ST-3	ST-3		CT-1	9'-0"	111A
111B	SHOWER	EXIST. CONC.	ST-3	ST-3.1	6"	ST-3	ST-3	ST-3	ST-3		CT-1	9'-0"	111B
112	TOILET	EXIST. CONC.	ST-3	ST-3.1	6"	ST-3	ST-3	ST-3	ST-3		CT-1	9'-0"	112
113	STORAGE	EXIST. CONC.	FL-5	FL-3.1	4"	PT	PT	PT	PT		OTA	-	113
114	JANITOR CLOSET	EXIST. CONC.	FL-5	FL-3.1	4"	PT	PT	PT	PT		OTA	-	114
115	CONF. ROOM/TRAINING	EXIST. CONC.	FL-3	FL-3.1	4"	PT-2	PT-2	PT-2	PT-1		CT-9	-	115
116	ELECTRICAL ROOM	EXIST. CONC.	FL-5	FL-3.1	4"	PT	PT	PT	PT		OTA	-	116
117	KITCHEN	EXIST. CONC.	FL-4	FL-4	6"	PT-1	PT-1	PT-1	PT-1		CT-6	9'-0"	117
117A	DRY STORAGE	EXIST. CONC.	FL-4	FL-4	6"	PT	PT	PT	PT		CT-6	9'-0"	117A
117B	WALK IN FREEZER	EXIST. CONC.	-	-	-	-	-	-	-	INTERIOR FINISH TO BE SELECTED BY OWNER	-	-	117B
117C	WALK IN COOLER	EXIST. CONC.	FL-4	FL-4	6	-	-	-	-	INTERIOR FINISH TO BE SELECTED BY OWNER	-	-	117C
117D	KITCHEN	EXIST. CONC.	FL-4	FL-4	6"	PT-1	PT-1	PT-1	PT-1		CT-6	9'-0"	117D
117E	KITCHEN	EXIST. CONC.	FL-4	FL-4	6"	PT-1	PT-1	PT-1	PT-1		CT-6	9'-0"	117E
118	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	118
119	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	119
120	OFFICE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		CT-1	9'-0"	120
121	STORAGE	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	PT-5		OTA		121
122	GAME ROOM	EXIST. CONC.	FL-3	FL-3.1	4"	PT-5	PT-5	PT-5	SEE NOTE	WEST WALL-REFER TO INTERIOR ELEVATION 4/A7.03 FOR FINISH.	CT-5 CT-9	13'-0" 13'-6"	122
123	BEER HALL	EXIST. CONC.	FL-1 FL-2	FL-1 ST-1	4" 6"	-	PT-2	PT-2 ST-1	SEE NOTE	WEST WALL-REFER TO INTERIOR ELEVATION 4/A7.03 FOR FINISH.	CT-9		123
124	COOLER	EXIST. CONC.	FL-4	FL-4	4	-	-	-	-	INTERIOR FINISH TO BE SELECTED BY OWNER	-	-	124
125	FAMILY RESTROOM	EXIST. CONC.	ST-3	ST-3.1	4"	ST-3	ST-3	ST-3	ST-3		CT-1	9'-0"	125
126	MEN'S RESTROOM	EXIST. CONC.	ST-9	ST-9	6"	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11		CT-1	9'-0"	126
127	MEN'S RESTROOM	EXIST. CONC.	ST-9	ST-9	6"	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11		CT-1	9'-0"	127
128	FAMILY RESTROOM	EXIST. CONC.	ST-3	ST-3.1	4"	ST-3	ST-3	ST-3	ST-3		CT-1	9'-0"	128
129	WOMEN'S RESTROOM	EXIST. CONC.	ST-10 ST-9	ST-9	6"	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11		CT-1	9'-0"	129
130	WOMEN'S RESTROOM	EXIST. CONC.	ST-10 ST-9	ST-9	6"	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11	PT-6 ST-11		CT-1	9'-0"	130
131A	CORRIDOR "A"	EXIST. CONC.	FL-3	FL-3.1	4"	PT-6	PT-6	PT-6	PT-6		CT-1	9'-0"	131A
131B	CORRIDOR "B"	EXIST. CONC.	FL-3	FL-3.1	4"	PT-6	PT-6	PT-6	PT-6		CT-1	9'-0"	131B
131C	CORRIDOR "C"	EXIST. CONC.	FL-3	FL-3.1	4"	PT-6	PT-6	PT-6	PT-6		CT-1	9'-0"	131C

Date 10/15/21
Checked CTB
Drawn CC

MATTHEW T. MILNAMOW, R.A.
The REGISTERED ARCHITECT License No. 32407

Revisions:
1 PERMIT SET 10/15/21

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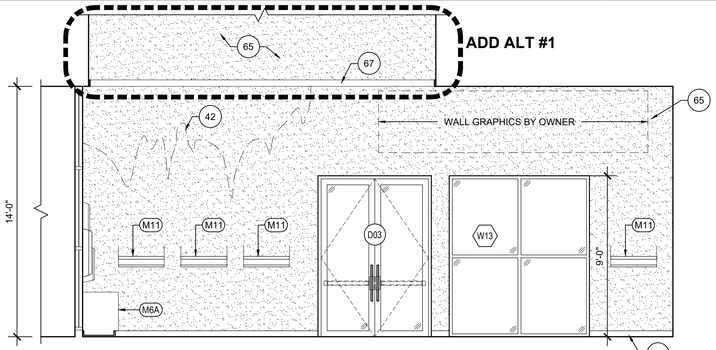
INTERIOR FINISH SCHEDULE
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A620

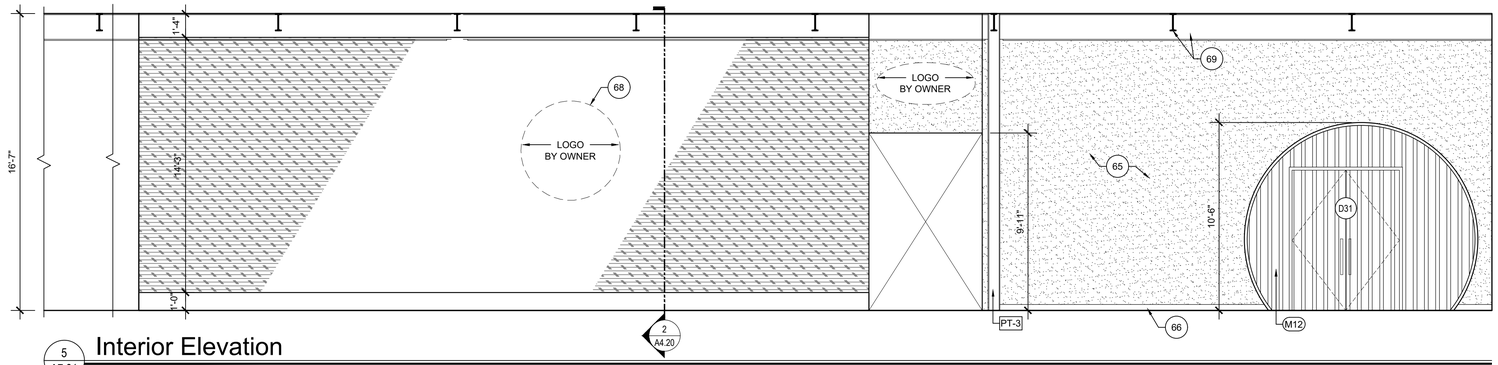
A6.20



1 A7.01 **Interior Elevation**

1/4" = 1'-0"

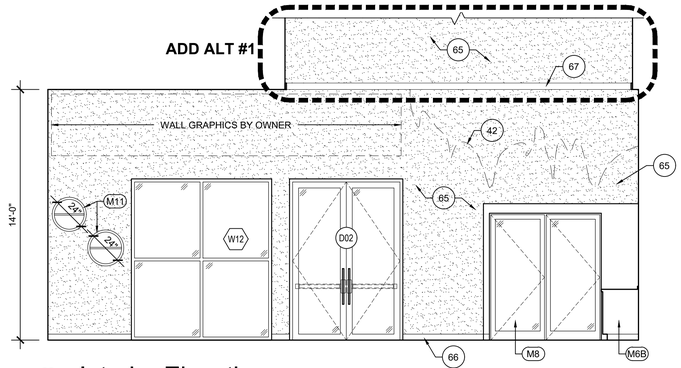
#102 LOBBY/RECEPTION



5 A7.01 **Interior Elevation**

1/4" = 1'-0"

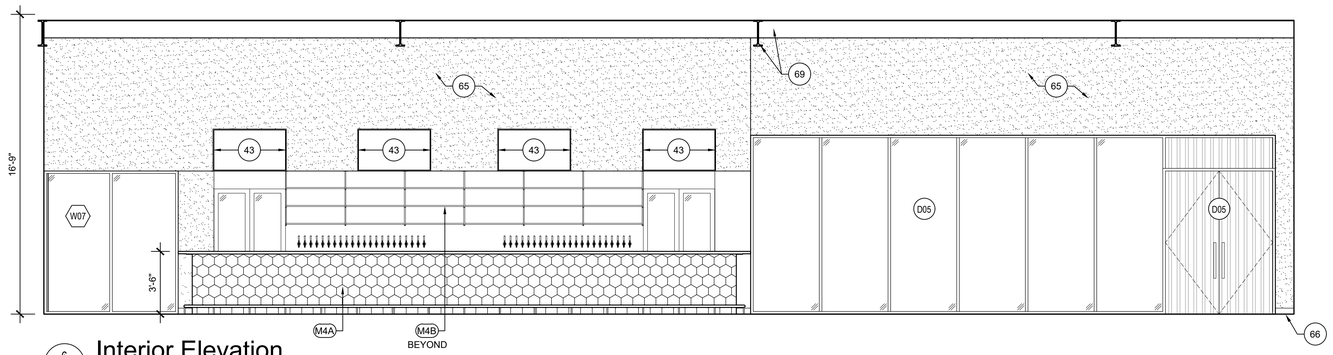
#103 TRADITIONAL TAPROOM



2 A7.01 **Interior Elevation**

1/4" = 1'-0"

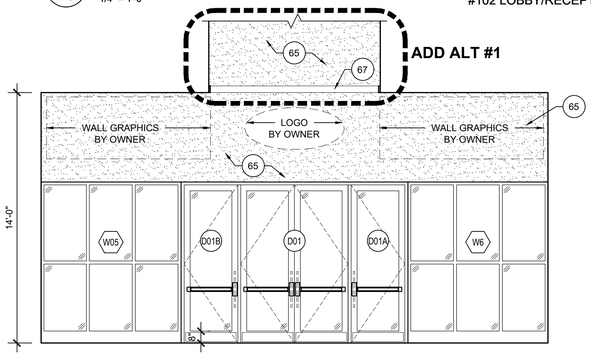
#102 LOBBY/RECEPTION



6 A7.01 **Interior Elevation**

1/4" = 1'-0"

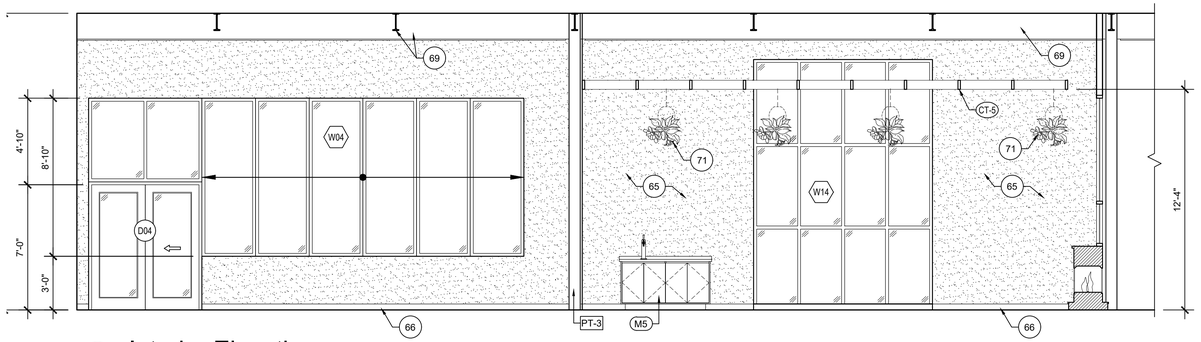
#103 TRADITIONAL TAPROOM



3 A7.01 **Interior Elevation**

1/4" = 1'-0"

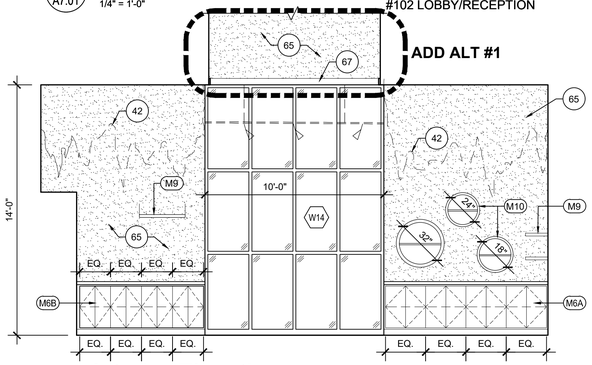
#102 LOBBY/RECEPTION



7 A7.01 **Interior Elevation**

1/4" = 1'-0"

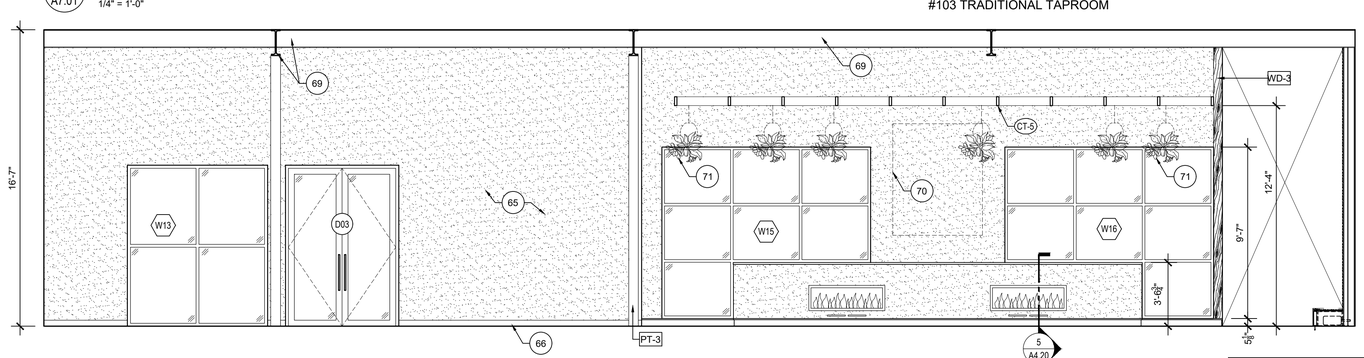
#103 TRADITIONAL TAPROOM



4 A7.02 **Interior Elevation**

1/4" = 1'-0"

#102 LOBBY/RECEPTION



8 A7.01 **Interior Elevation**

1/4" = 1'-0"

#103 TRADITIONAL TAPROOM

NOTE: CEILING TYPE CT-9 IS NOT SHOWN ON INTERIOR ELEVATIONS SHEETS FOR CLARITY. SEE A5.02 FOR EXTENT OF WORK

REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES
REFER TO SHEET **A5.01** FOR CEILING TYPES
REFER TO SHEET **A6.20** FOR FINISH SCHEDULE LEGEND KEY NOTES
REFER TO SHEET **A9.10** FOR MILLWORK SCHEDULE KEY NOTES

Date	10/15/21
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MATTHEW T. MILNAMOW, R.A.
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Revisions:

1 PERMIT SET 10/15/21

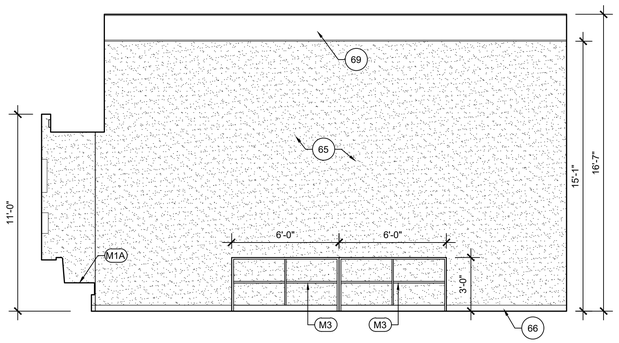
INTERIOR ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

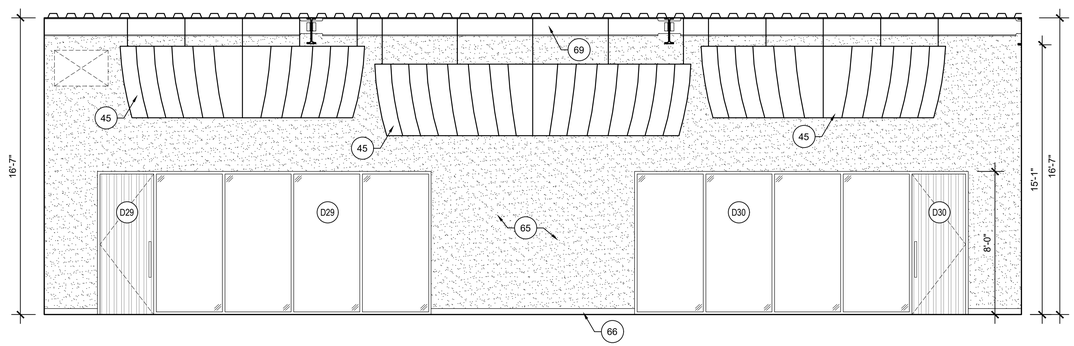
Job No. 4.1552.01

File No. 4155201A701

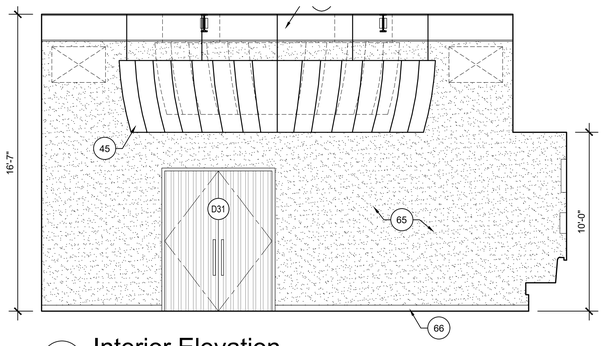
A7.01



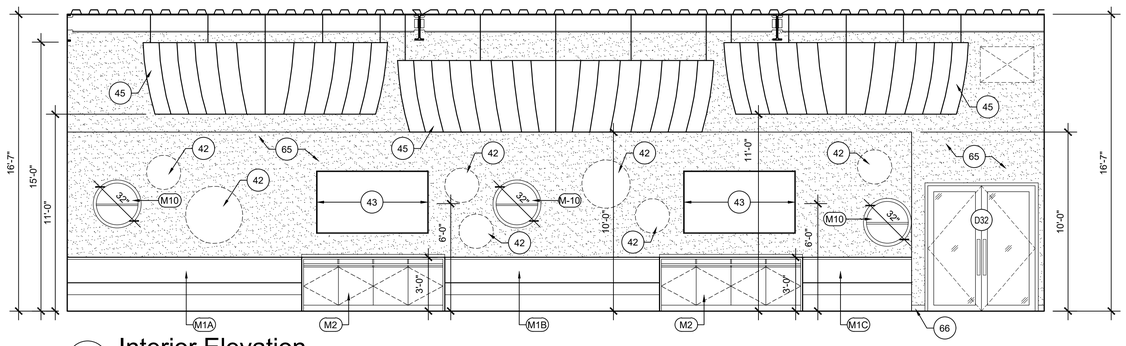
1 A7.02 **Interior Elevation**
1/4" = 1'-0"
#115 CONFERENCE/TRAINING



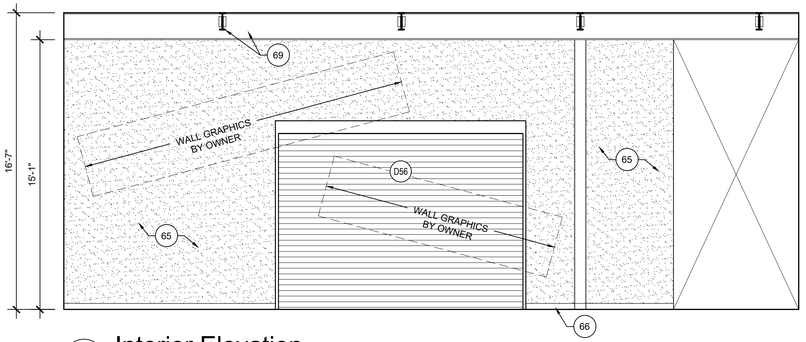
2 A7.02 **Interior Elevation**
1/4" = 1'-0"
#115 CONFERENCE/TRAINING



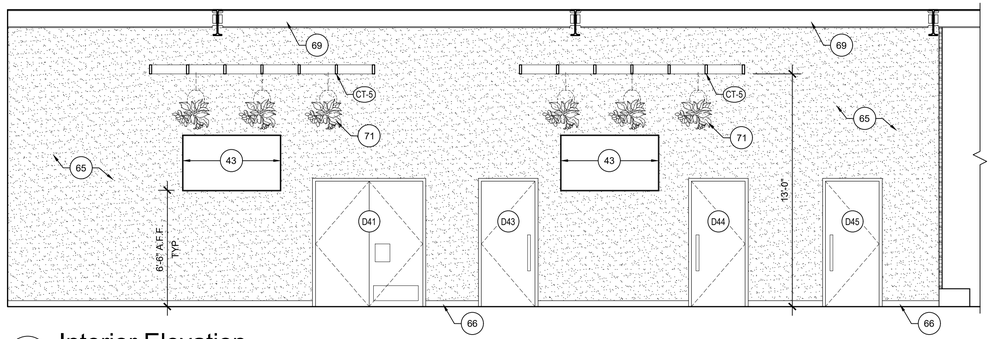
3 A7.02 **Interior Elevation**
1/4" = 1'-0"
#115 CONFERENCE/TRAINING



4 A7.02 **Interior Elevation**
1/4" = 1'-0"
#115 CONFERENCE/TRAINING

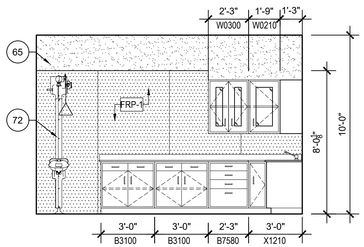


5 A7.02 **Interior Elevation**
1/4" = 1'-0"
#122 GAME ROOM

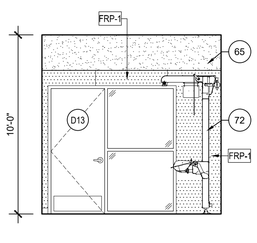


6 A7.02 **Interior Elevation**
1/4" = 1'-0"
#122 GAME ROOM

7 A7.02 **Reserved**
1/4" = 1'-0"

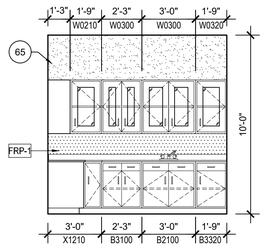


8 A7.02 **Interior Elevation**
1/4" = 1'-0"
#105F LAB

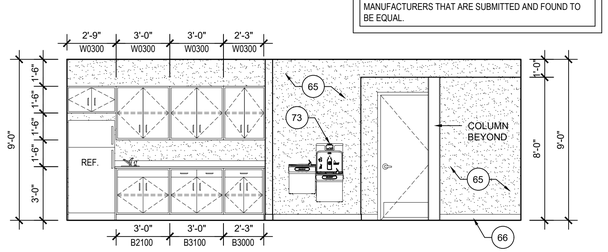


9 A7.02 **Interior Elevation**
1/4" = 1'-0"
#105F LAB

10 A7.02 **Reserved**
1/4" = 1'-0"



11 A7.02 **Interior Elevation**
1/4" = 1'-0"
#105F LAB



12 A7.02 **Interior Elevation**
1/4" = 1'-0"
#110 BREAK ROOM

Casework Design Note

CASEWORK MODEL NUMBERS REFER TO "CASE SYSTEMS INC." FOR REPRESENTATION OF INTENT OF DESIGN ONLY. THIS DOES NOT PRECLUDE THE USE OF OTHER MANUFACTURERS THAT ARE SUBMITTED AND FOUND TO BE EQUAL.

NOTE: CEILING TYPE CT-9 IS NOT SHOWN ON INTERIOR ELEVATIONS SHEETS FOR CLARITY. SEE A5.02 FOR EXTENT OF WORK

REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES
REFER TO SHEET **A5.01** FOR CEILING TYPES
REFER TO SHEET **A6.20** FOR FINISH SCHEDULE LEGEND KEY NOTES
REFER TO SHEET **A9.10** FOR MILLWORK SCHEDULE KEY NOTES

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MATTHEW T. MILNAMOW, R.A.
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Revisions:

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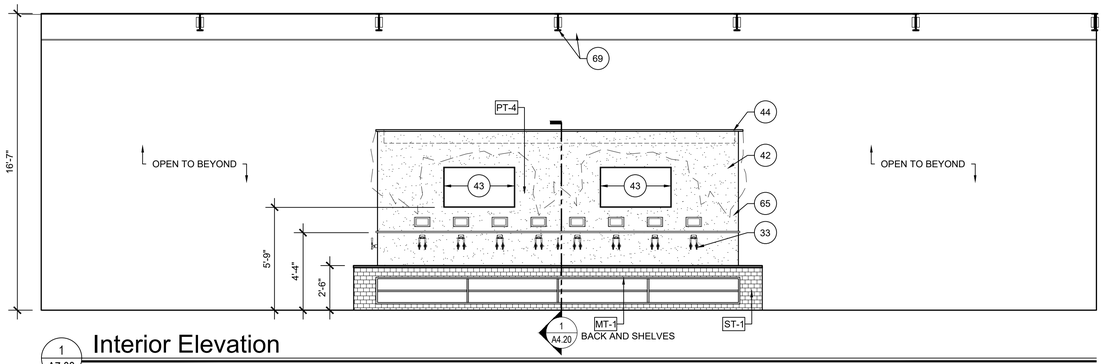
INTERIOR ELEVATIONS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

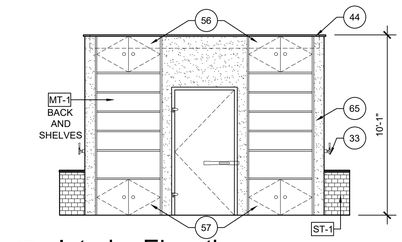
Job No. 4.1552.01

File No. 4155201A701

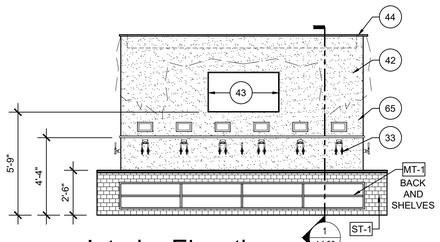
A7.02



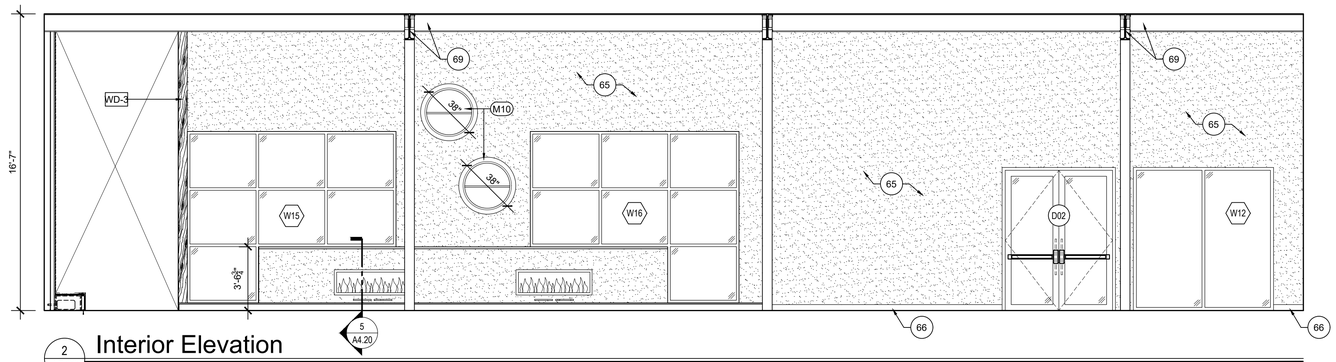
1 A7.03 **Interior Elevation**
1/4" = 1'-0"
#123 BEER HALL



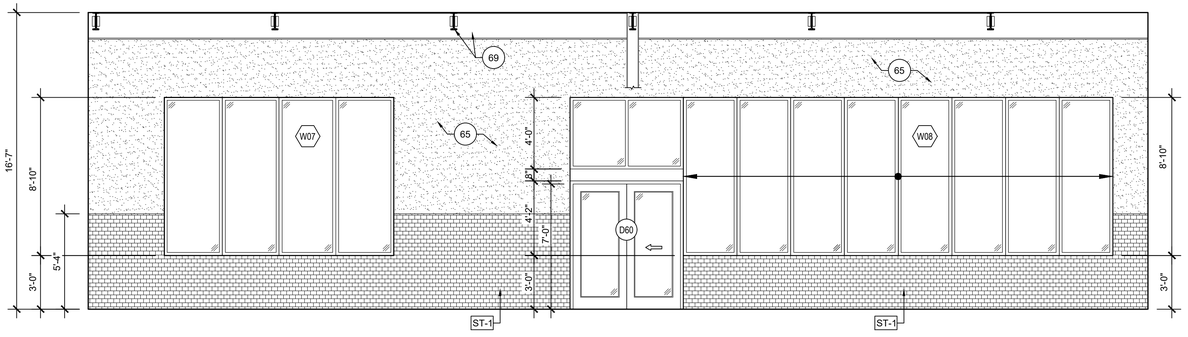
6 A7.03 **Interior Elevation**
1/4" = 1'-0"
#123 BEER HALL



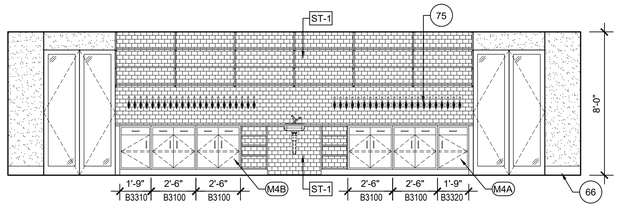
7 A7.03 **Interior Elevation**
1/4" = 1'-0"
#123 BEER HALL



2 A7.03 **Interior Elevation**
1/4" = 1'-0"
#123 BEER HALL

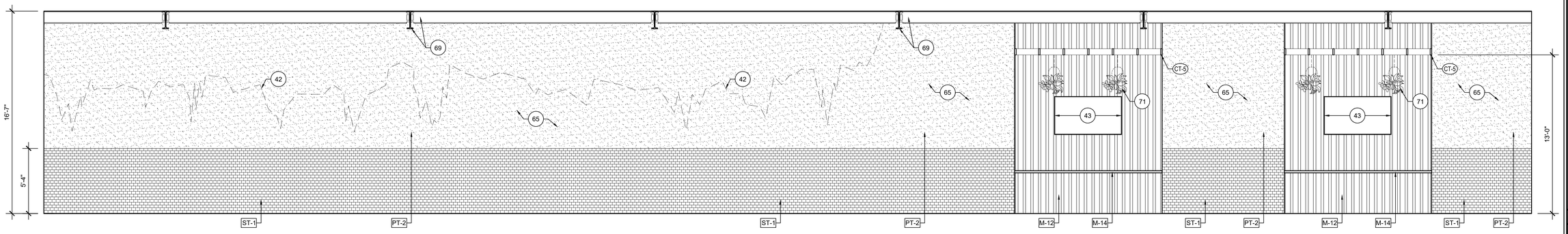


3 A7.03 **Interior Elevation**
1/4" = 1'-0"
#123 BEER HALL



5 A7.03 **Interior Elevation**
1/4" = 1'-0"
#103 TAPROOM

NOTE: CEILING TYPE CT-9 IS NOT SHOWN ON INTERIOR ELEVATIONS SHEETS FOR CLARITY. SEE A5.02 FOR EXTENT OF WORK



4 A7.03 **Interior Elevation**
1/4" = 1'-0"
#123 BEER HALL & #122 GAME ROOM

REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES
REFER TO SHEET **A5.01** FOR CEILING TYPES
REFER TO SHEET **A6.20** FOR FINISH SCHEDULE LEGEND KEY NOTES
REFER TO SHEET **A9.10** FOR MILLWORK SCHEDULE KEY NOTES

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INTERIOR ELEVATIONS
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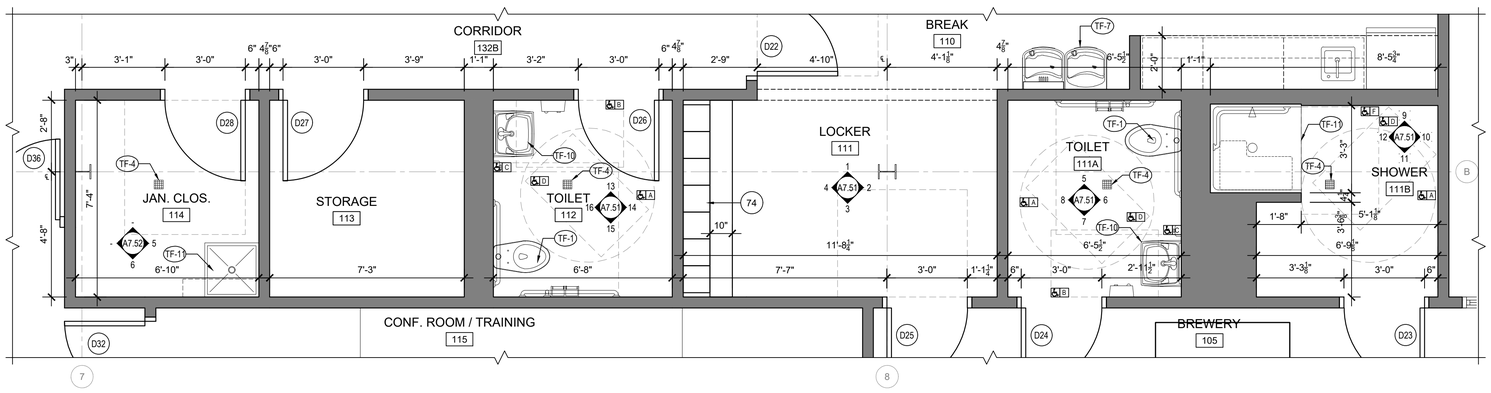
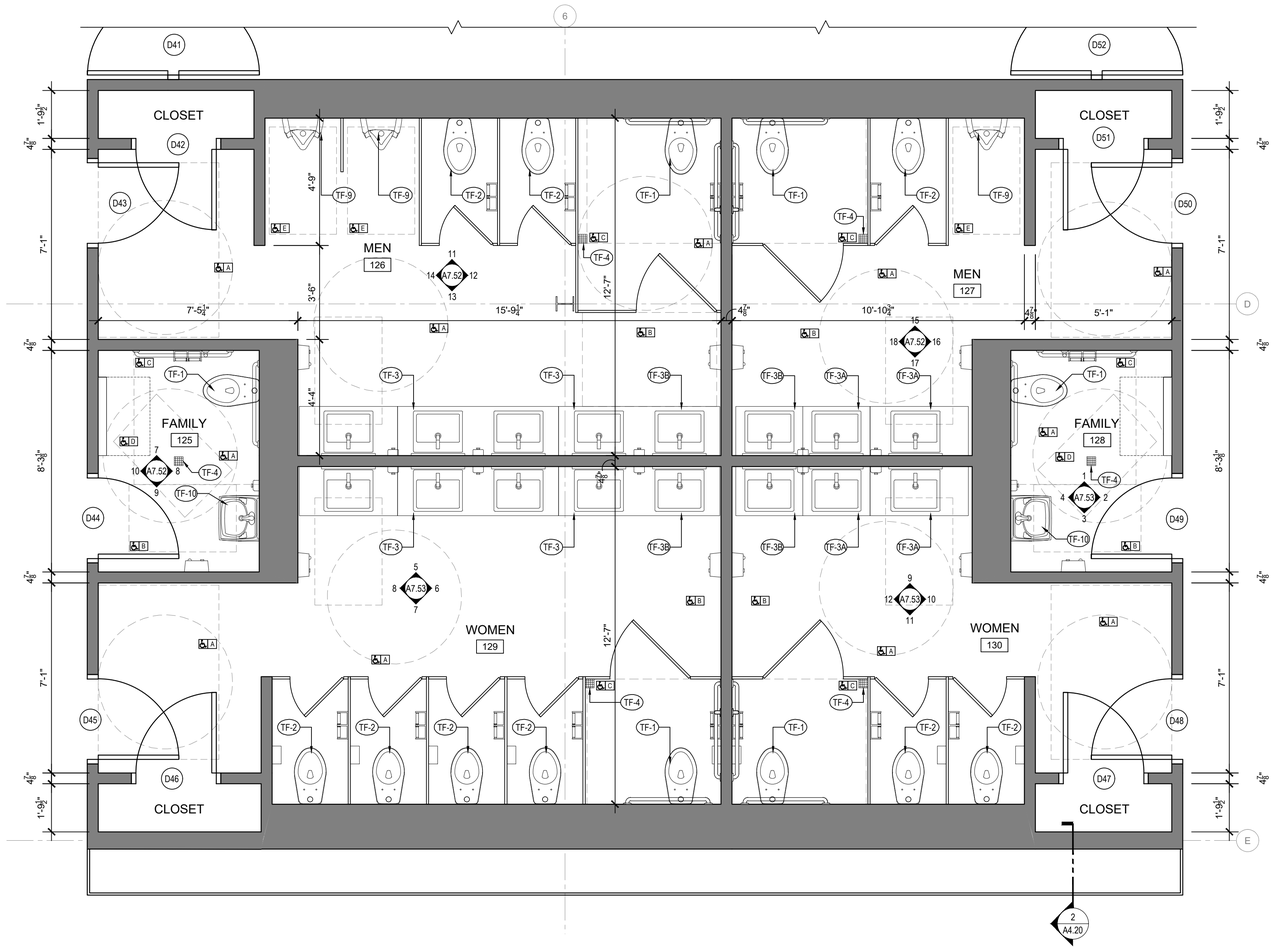
Job No. 4.1552.01
File No. 4155201A701

A7.03



2 / A7.50 Enlarged Toilet Rooms Plan

3/8" = 1'-0"



1 / A7.50 Enlarged Toilet Rooms Plan

3/8" = 1'-0"

Toilet Room Key Notes

SYMBOL INDICATES TOILET ROOM KEY NOTE

1. FLOOR FINISH, REFER TO INTERIOR FINISH SCHEDULE ON DRAWING A6.20.
2. WALL BASE, REFER TO INTERIOR FINISH SCHEDULE ON DRAWING A6.20.
3. WALL FINISH, REFER TO INTERIOR FINISH SCHEDULE ON DRAWING A6.20.
4. CEILING FINISH, REFER TO REFLECTED CEILING PLAN ON DRAWING A5.02.
5. ACCESS DOOR, COORDINATE WITH PLUMBING DRAWINGS.

Typical Toilet Room Notes

1. CONTRACTOR TO COORDINATE EXACT LOCATIONS OF ALL TOILET ROOM ACCESSORIES WITH OWNER PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL SECURELY FASTEN ALL FIXTURES AND ACCESSORIES AT PROPER MOUNTING HEIGHTS.
3. CONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING AT APPROPRIATE MOUNTING HEIGHTS AS REQUIRED FOR ALL ACCESSORIES INCLUDED IN THIS CONTRACT INCLUDING ACCESSORIES SUPPLIED BY OWNER. CONTRACTOR SHALL PROVIDE ALL FASTENERS, ANCHORS, PLATES, ETC. REQ'D. FOR COMPLETE INSTALLATION. ALL FASTENERS SHALL BE STAINLESS STEEL, CORROSION AND VANDAL RESISTANT.
4. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE KIND AND OF EQUAL QUALITY.
5. REFER TO PLUMBING FIXTURE SCHEDULE FOR SPECIFIC PLUMBING FIXTURE SPECIFICATIONS. REFER TO PLUMBING DRAWINGS FOR PIPING LAYOUT.
6. CONTRACTOR SHALL FURNISH AND INSTALL ALL ADA SIGNAGE AS REQUIRED.
7. DIMENSIONS ARE FROM FACE OF FINISH MATERIALS, AND REPRESENT CLEAR AREA.
8. CONTRACTOR TO PROVIDE GRAB BAR ANCHORS FOR SOLID WALL CONSTRUCTION AND CONCEALED ANCHOR PLATE FOR STUD WALL CONSTRUCTION. REFER TO TYPICAL GRAB BAR DETAIL C/A7.53
9. ALL TOILET ROOM ACCESSORIES SHALL BE STAINLESS STEEL.
10. COLOR OF ALL PLUMBING FIXTURES SHALL BE SELECTED BY OWNER.

Toilet Accessory Key Notes

SYMBOL INDICATES TOILET ACCESSORY KEY NOTE

- A FRAMELESS MIRROR: "BOBRICK" MODEL #B-164 24"X36"
- B SOAP DISPENSER: "BOBRICK" MODEL #B-2111 SURFACE MOUNTED SOAP DISPENSER.
- C HAND DRYER: "DYSON" AIRBLADE V. SPRAYED NICKEL
- D TOILET TISSUE DISPENSER: "BOBRICK" MODEL #B-27460 DOUBLE ROLL TOILET TISSUE DISPENSER. PROVIDE IN EVERY STALL.
- E TOILET PARTITIONS: FLOOR MOUNTED OVERHEAD-BRACED SOLID PLASTIC BY "SCRANTON PRODUCTS". 1" THICK DOORS, PANELS AND PILASTERS. 1" THICK POST-MOUNTED URINAL SCREENS (FLOOR MOUNTED). HEAVY-DUTY ALUMINUM HARDWARE AND ACCESSORIES. MANUFACTURER'S STANDARD HINGES, LATCH & KEEPERS, DOOR BUMPER AND DOOR PULL.
- F 42" HORIZONTAL GRAB BAR: "BOBRICK", MODEL #B-5806 x 42, STAINLESS STEEL 1-1/4" DIAMETER PEENED NON-SLIP GRIPPING SURFACE WITH SNAP FLANGE.
- G 36" HORIZONTAL GRAB BAR: "BOBRICK", MODEL #B-5806 x36, STAINLESS STEEL 1-1/4" DIAMETER PEENED NON-SLIP GRIPPING SURFACE WITH SNAP FLANGE
- H 18" VERTICAL GRAB BAR: "BOBRICK", MODEL #B-5806 x 18, STAINLESS STEEL 1-1/4" DIAMETER PEENED NON-SLIP GRIPPING SURFACE WITH SNAP FLANGE.
- I LAVATORY PROTECTIVE ENCLOSURE: "LAV SHIELD" BY "TRUEBRO INC." MODEL #2018-AS-C AT TOILET 111A, 112, 113 AND FAMILY 125, 128. "LAVGUARD EZ-2" BY "TRUEBRO INC." AT MEN 126, 127 AND WOMEN 129, 130
- J SANITARY NAPKIN DISPOSAL: "BOBRICK" MODEL #B-254 SURFACE MOUNTED SANITARY NAPKIN DISPOSAL. PROVIDE IN EVERY STALL, WOMEN'S ROOMS ONLY.
- K COAT HOOK: "BOBRICK" MODEL #B-542 STAINLESS STEEL COAT HOOK. PROVIDE IN EVERY STALL.
- L MOP/BROOM HOLDER: "BOBRICK" SURFACE MOUNTED MOP/BROOM HOLDER MODEL #B-239
- M HORIZONTAL WALL MOUNTED BABY CHANGING STATION: "KOALA KARE PRODUCTS" MODEL #KB200-SS
- N MIRROR: "BOBRICK" TILT MIRROR WITH STAINLESS STEEL FRAME MODEL #B-293 1830

Toilet Fixture Key Notes

TF-# SYMBOL INDICATES TOILET FIXTURE KEY NOTE

NOTE: CONTRACTOR TO PROVIDE ALL CONCEALED ARM CHAIR SUPPORTS FOR ALL PLUMBING FIXTURES REQUIRED.

- TF-1 **WALL MOUNTED ADA WATER CLOSET:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-2 **WALL MOUNTED WATER CLOSET:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-3 **DOUBLE COUNTER MOUNTED LAVATORY:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-3A **SINGLE COUNTER MOUNTED LAVATORY:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-3B **ADA COUNTER MOUNTED LAVATORY:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-4 **FLOOR DRAIN:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-6 **HOSE BIB:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-7 **DRINKING FOUNTAIN:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO
- TF-8 **MOP SINK:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-9 **URINAL:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-10 **ADA LAVATORY (WALL HUNG):** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.
- TF-11 **SHOWER:** SEE PLUMBING SCHEDULE FOR ADDITIONAL INFO.

Accessibility Notes

- A 60" CLR. WHEELCHAIR TURNING RADIUS
- B 30"x48" CLEAR AT LAVATORY
- C 56"x60" CLEAR AT WATER CLOSET
- D 30"x48" CLEAR FLOOR SPACE
- E 30"x48" CLEAR AT URINAL
- F 36"x48" CLEAR AT SHOWER ACCESS

* SEE DETAILS A, B, C ON A6.01 FOR DOOR MANEUVERING CLEARANCES

NOTES:

1. REFER TO SHEET A2.01 AND A2.02 FOR PROPOSED FLOOR PLANS.
2. REFER TO SHEET A5.01 FOR TOILET ROOM REFLECTED CEILING PLANS.
3. REFER TO SHEET A7.51 FOR TOILET ROOM INTERIOR ELEVATIONS.

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MATTHEW T. MLNAMOW, R.A. — No. 32407 — REGISTERED ARCHITECT

Revisions:

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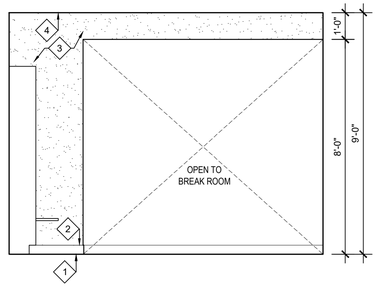
ENLARGED TOILET ROOM PLANS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

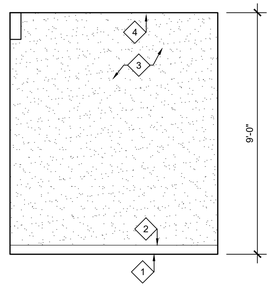
Job No. 4.1552.01

File No. 4155201A750

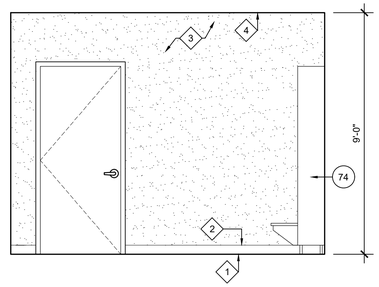
A7.50



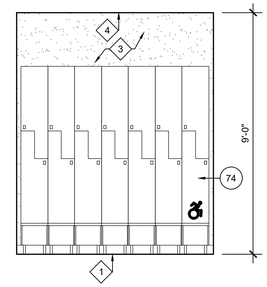
1 A7.51 Locker Room Elev.
3/8" = 1'-0" 111



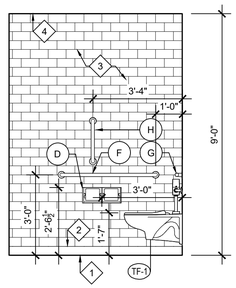
2 A7.51 Locker Room Elev.
3/8" = 1'-0" 111



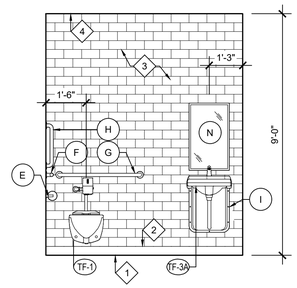
3 A7.51 Locker Room Elev.
3/8" = 1'-0" 111



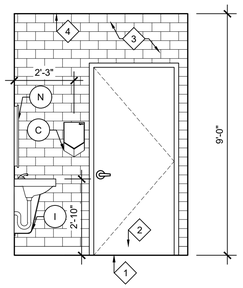
4 A7.51 Locker Room Elev.
3/8" = 1'-0" 111



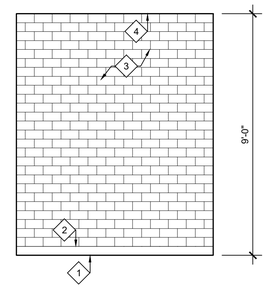
5 A7.51 Toil. Room Elev.
3/8" = 1'-0" 111A



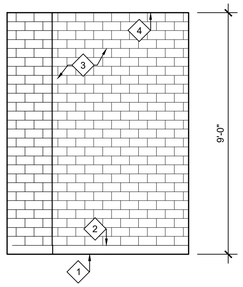
6 A7.51 Toil. Room Elev.
3/8" = 1'-0" 111A



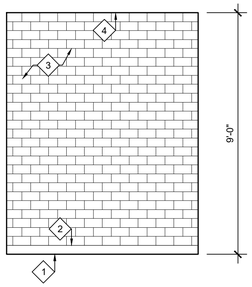
7 A7.51 Toil. Room Elev.
3/8" = 1'-0" 111A



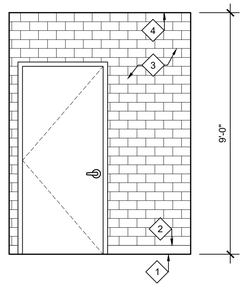
8 A7.51 Toil. Room Elev.
3/8" = 1'-0" 111A



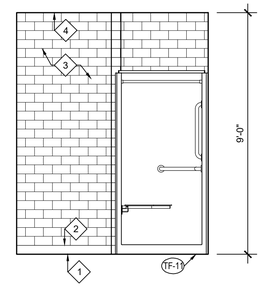
9 A7.51 Shower Room Elev.
3/8" = 1'-0" 111B



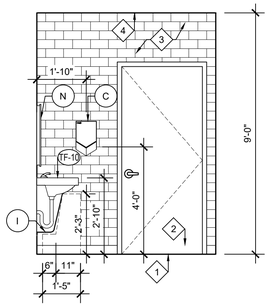
10 A7.51 Shower Room Elev.
3/8" = 1'-0" 111B



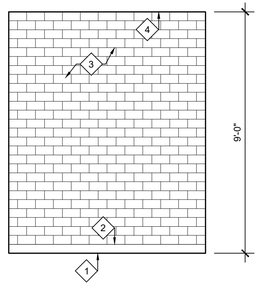
11 A7.51 Shower Room Elev.
3/8" = 1'-0" 111B



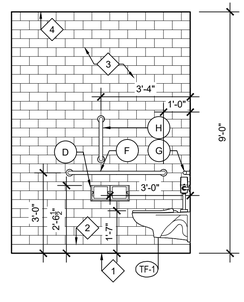
12 A7.51 Shower Room Elev.
3/8" = 1'-0" 111B



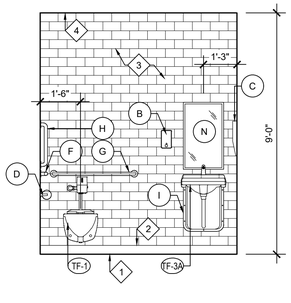
13 A7.51 Toil. Room Elev.
3/8" = 1'-0" 112



14 A7.51 Toil. Room Elev.
3/8" = 1'-0" 112



15 A7.51 Toil. Room Elev.
3/8" = 1'-0" 112



16 A7.51 Toil. Room Elev.
3/8" = 1'-0" 112

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Revisions:

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TOILET ROOM ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 41552O1A750

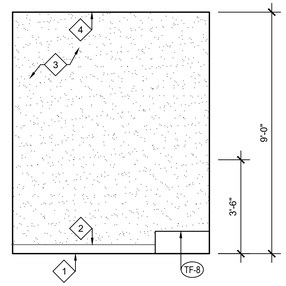
A7.51

1 Reserved
A7.52

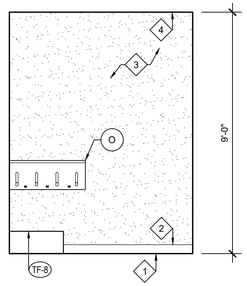
2 Reserved
A7.52

3 Reserved
A7.52

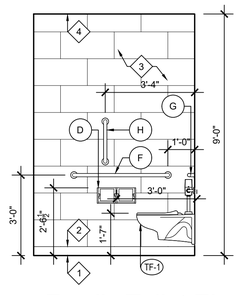
4 Reserved
A7.52



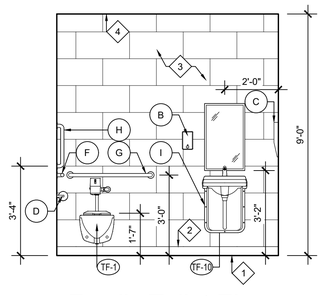
5 Jan. Clos. Elev.
A7.52 3/8" = 1'-0" 114



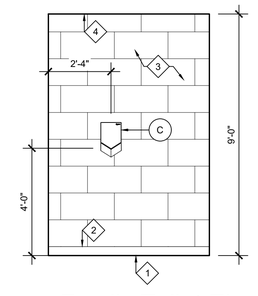
6 Jan. Clos. Elev.
A7.52 3/8" = 1'-0" 114



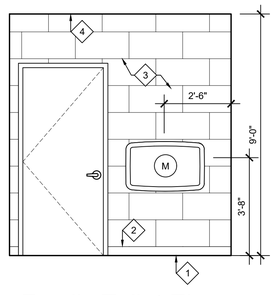
7 Family Toilet Elev.
A7.52 3/8" = 1'-0" 125



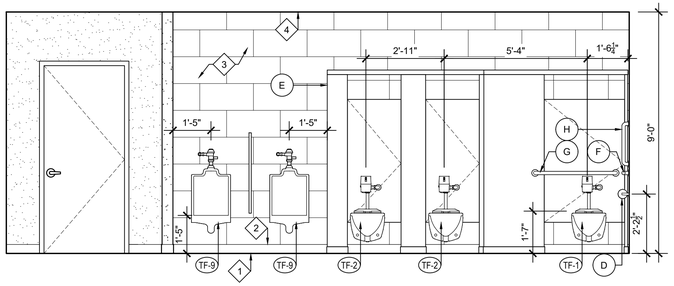
8 Family Toilet Elev.
A7.52 3/8" = 1'-0" 125



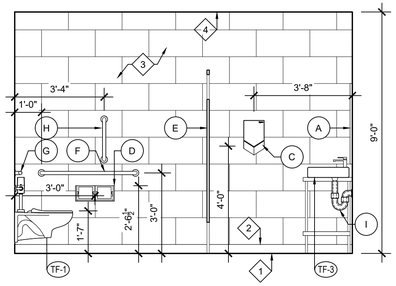
9 Family Toilet Elev.
A7.52 3/8" = 1'-0" 125



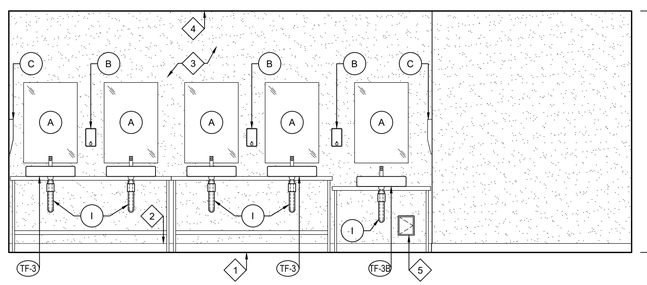
10 Family Toilet Elev.
A7.52 3/8" = 1'-0" 125



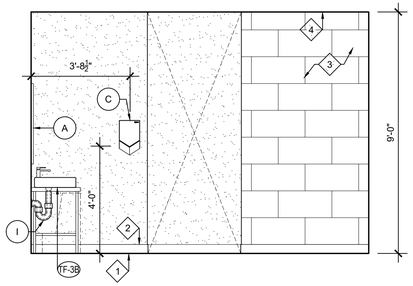
11 Mens Room Elev.
A7.52 3/8" = 1'-0" 126



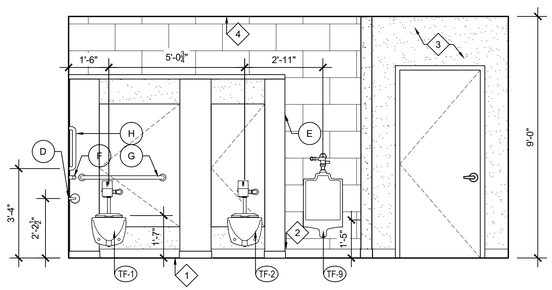
12 Mens Room Elev.
A7.52 3/8" = 1'-0" 126



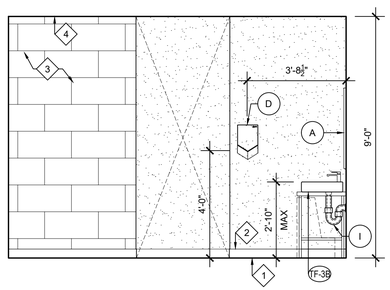
13 Mens Room Elev.
A7.52 3/8" = 1'-0" 126



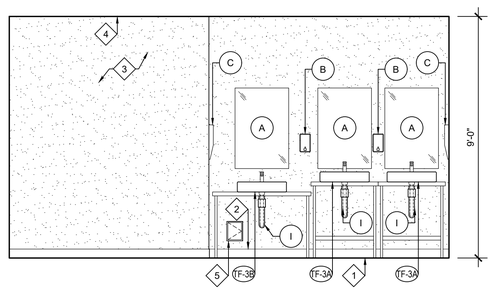
14 Mens Room Elev.
A7.52 3/8" = 1'-0" 126



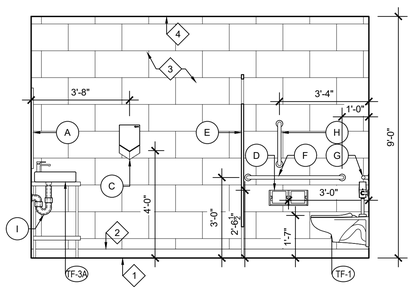
15 Mens Room Elev.
A7.52 3/8" = 1'-0" 127



16 Mens Room Elev.
A7.52 3/8" = 1'-0" 127



17 Mens Room Elev.
A7.52 3/8" = 1'-0" 127



18 Mens Room Elev.
A7.52 3/8" = 1'-0" 127

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TOILET ROOM ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
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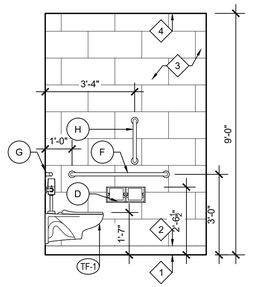
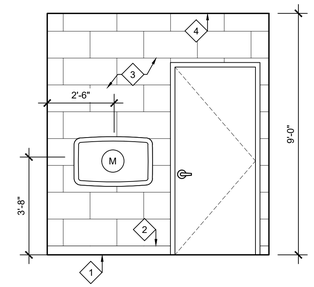
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A750

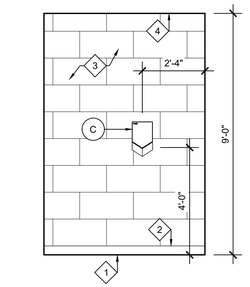
A7.52



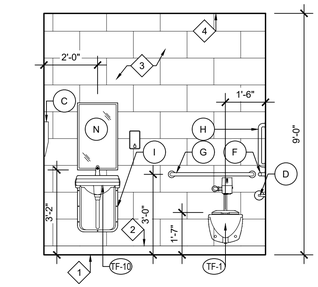
1 A7.53 Family Room Elev.
3/8" = 1'-0"
128



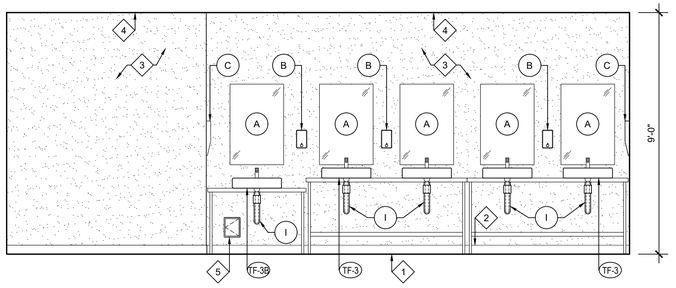
2 A7.53 Family Room Elev.
3/8" = 1'-0"
128



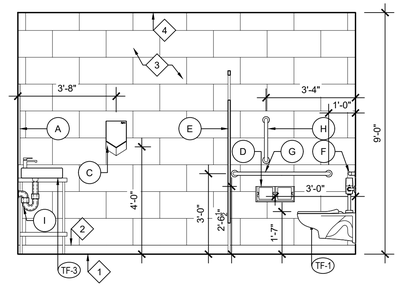
3 A7.53 Family Room Elev.
3/8" = 1'-0"
128



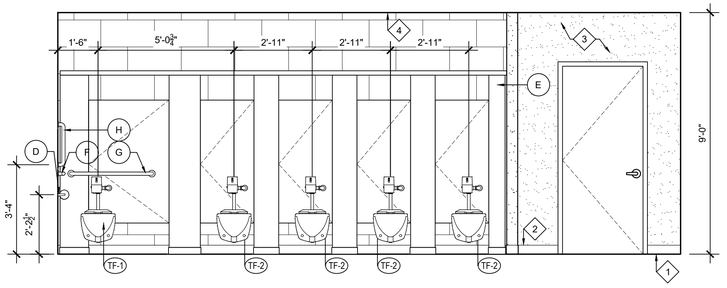
4 A7.53 Family Room Elev.
3/8" = 1'-0"
128



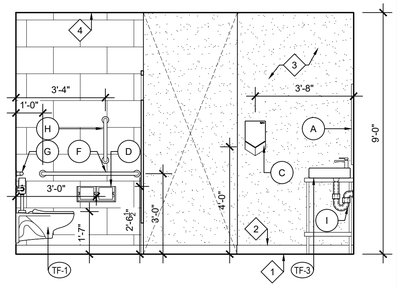
5 A7.53 Womens Room Elev.
3/8" = 1'-0"
129



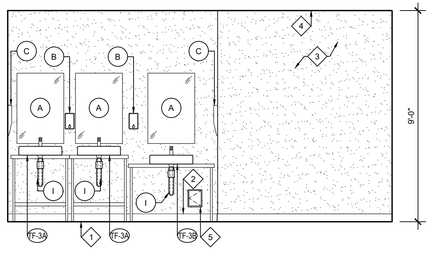
6 A7.53 Womens Room Elev.
3/8" = 1'-0"
129



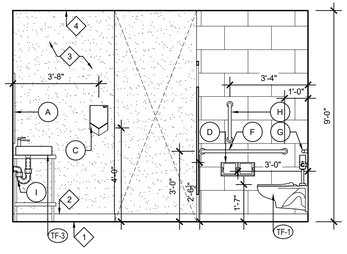
7 A7.53 Womens Room Elev.
3/8" = 1'-0"
129



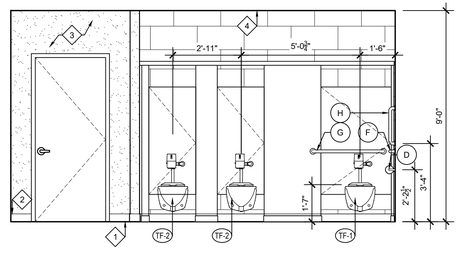
8 A7.53 Womens Room Elev.
3/8" = 1'-0"
129



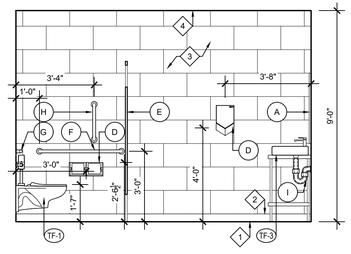
9 A7.53 Womens Room Elev.
3/8" = 1'-0"
130



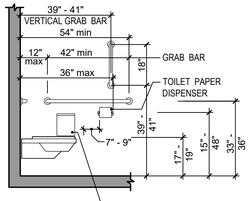
10 A7.53 Womens Room Elev.
3/8" = 1'-0"
130

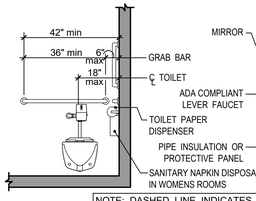


11 A7.53 Womens Room Elev.
3/8" = 1'-0"
130



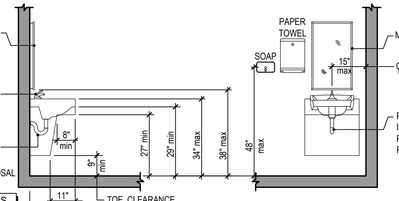
12 A7.53 Womens Room Elev.
3/8" = 1'-0"
130



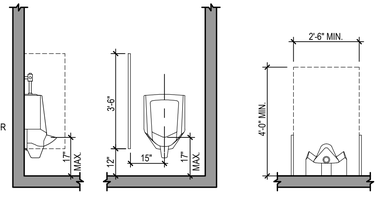


NOTE: DASHED LINE INDICATES DIMENSIONAL CLEARANCE OF OPTIONAL UNDER FIXTURE ENCLOSURE.

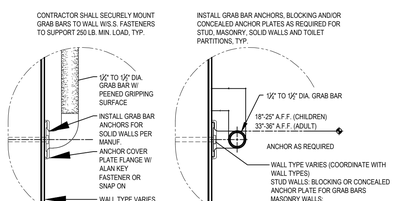
A Watercloset Clearances
N.T.S.



B Lavatory Clearances
N.T.S.



C Urinal Clearances
N.T.S.



C Typ. Grab Bar Details
N.T.S.

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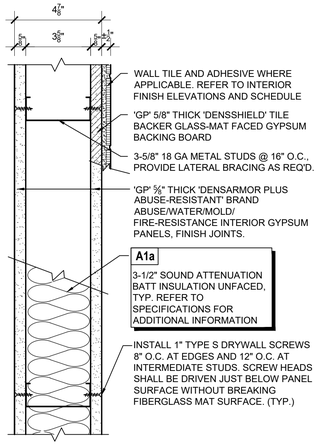
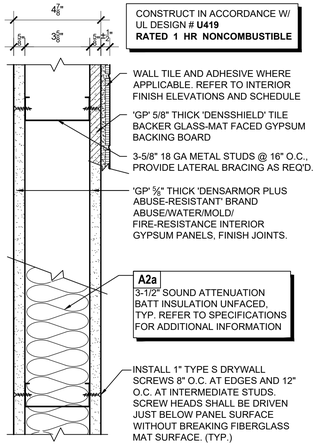
Job No. 4.1552.01

File No. 4155201A750

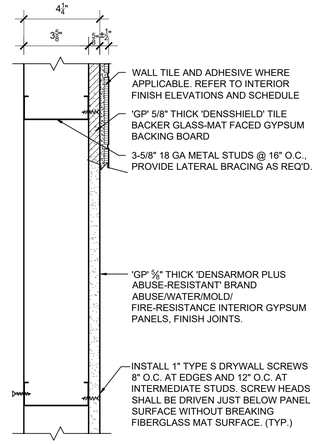
A7.53



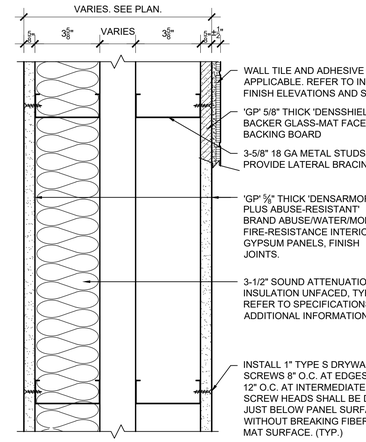
A1 Wall Type
3" = 1'-0" INTERIOR PARTITION



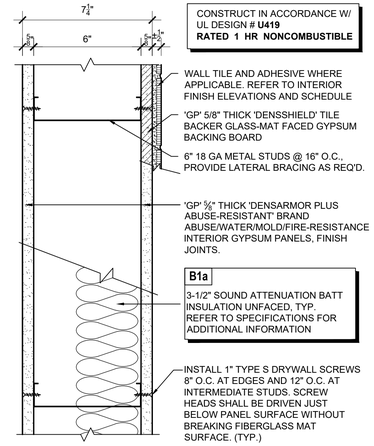
A2 Wall Type
3" = 1'-0" INTERIOR PARTITION



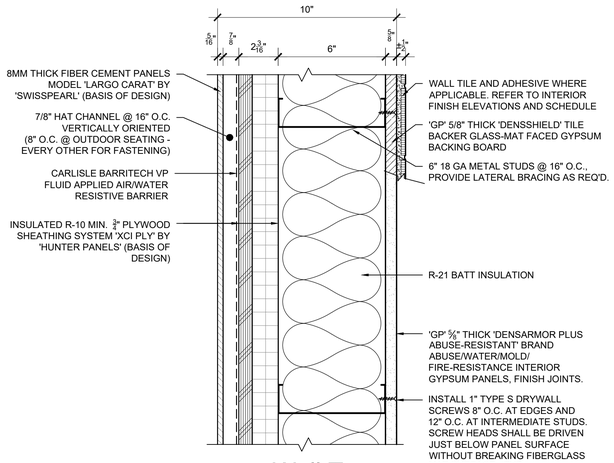
A3 Wall Type
3" = 1'-0" INTERIOR PARTITION



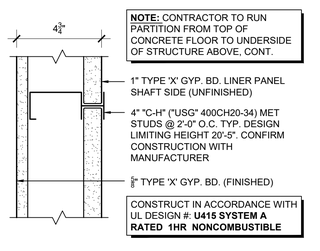
A4 Wall Type
3" = 1'-0" INTERIOR PARTITION



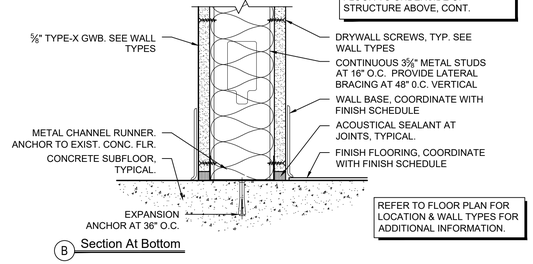
B1 Wall Type
3" = 1'-0" INTERIOR PARTITION



C1 Wall Type
3" = 1'-0" EXTERIOR WALL



D1 Wall Type
3" = 1'-0" SHAFT WALL



1 / A8.01 Framing Details @ L.G. Partition
3"= 1'-0"

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PARTITION TYPES & DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
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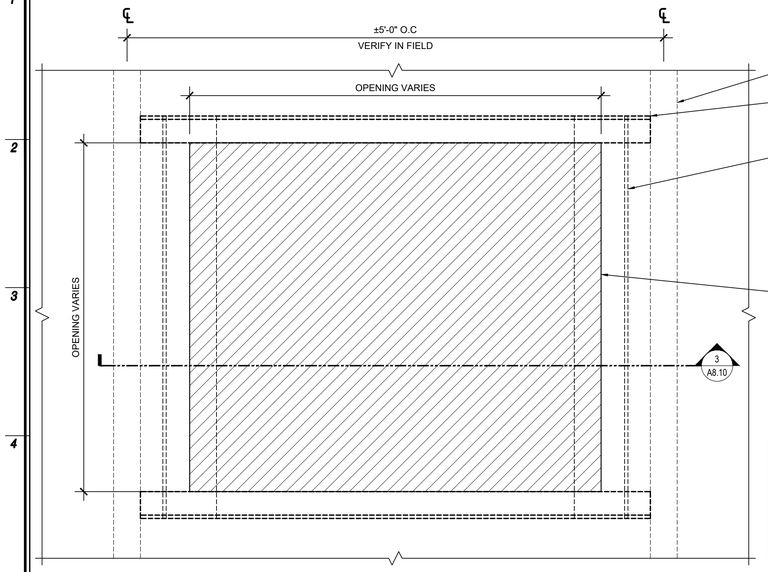
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A801

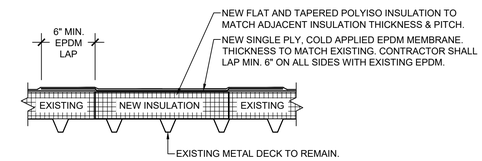
A8.01



NOTE:
AFTER INSTALLING NEW INSULATION AND EPDM MEMBRANE, CONTRACTOR SHALL INSTALL NEW FLUID APPLIED FULLY REINFORCED ALIPHATIC ROOFING SYSTEM INSTALLED OVER PRIMED EPDM MEMBRANE. CONTRACTOR SHALL LAP OVER EXISTING ROOFING BY 1'-0" MIN. IN ALL DIRECTIONS.

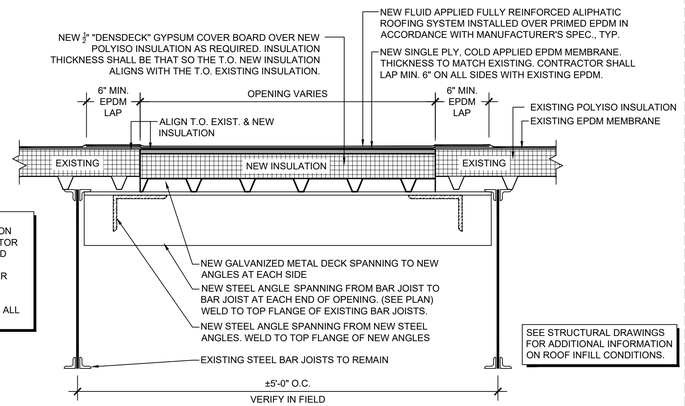
1 A8.10 Typical Roof Infill Plan

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



2 A8.10 Typical Roofing System Infill Detail

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

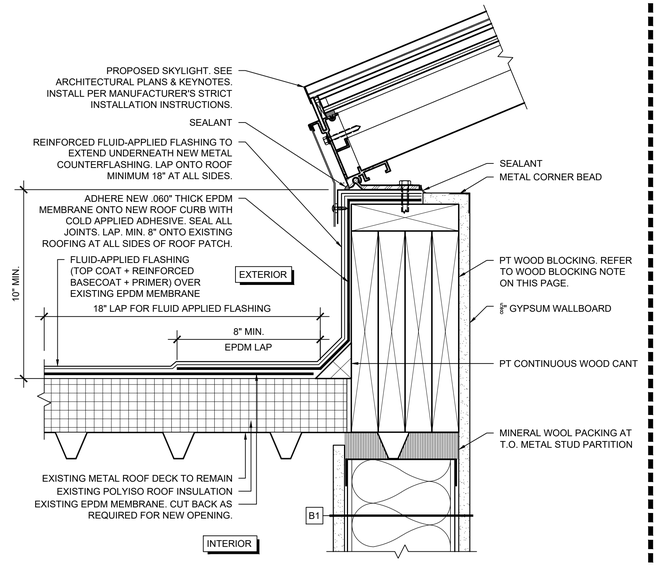


SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON ROOF INFILL CONDITIONS.

3 A8.10 Typical Roof Infill Section

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

ADD ALTERNATE #1



4 A8.10 Typical Skylight Curb Detail

3" = 1'-0"

WOOD BLOCKING NOTES:

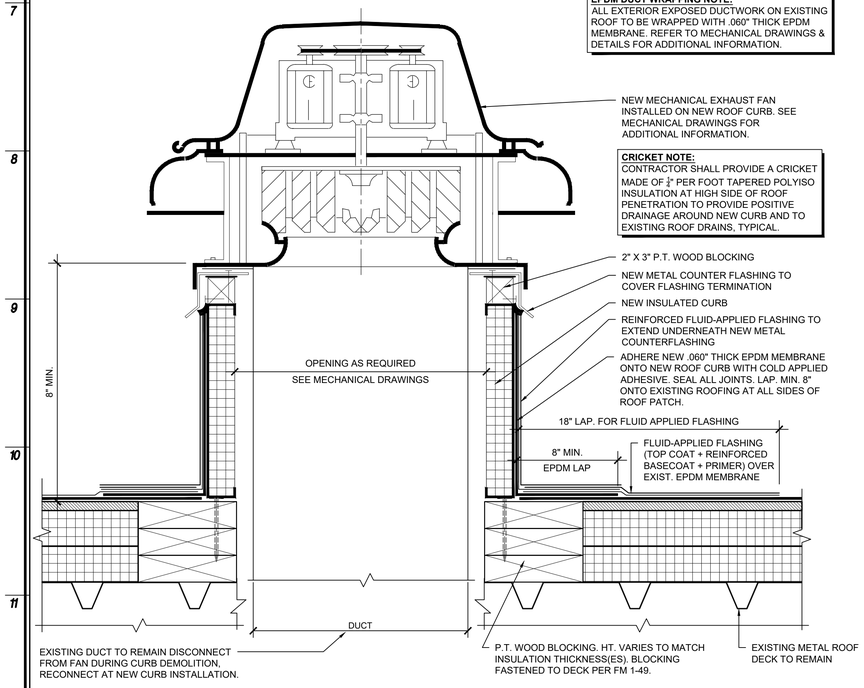
1. WOOD (P.T.) BLOCKING SHOWN ON THESE DRAWINGS IS FOR SCHEMATIC PURPOSES ONLY. BLOCKING AMOUNTS/HEIGHTS MAY DIFFER FROM WHAT IS SHOWN. CONTRACTOR TO DETERMINE PROPER BLOCKING AMOUNT IN FIELD BASED ON ACTUAL FIELD CONDITIONS.
2. **ACQ TREATED LUMBER, OR EQUIVALENT, SHALL BE USED FOR ALL WOOD BLOCKING/NAILERS AND MUST CONFORM TO ALL FEDERAL STANDARDS/REGULATIONS.**
   - USE HOT-DIP GALVANIZED (ASTM A653 WITH A G90 OR GREATER) OR STAINLESS STEEL FASTENERS.
   - DO NOT USE ELECTRO-GALVANIZED SCREWS OR NAILS.
3. INSTALL TREATED LUMBER AT THE SAME HEIGHT AS THE INSULATION LAYER. WOOD NAILERS SHALL BE INSTALLED AT ALL PERIMETERS AND PENETRATIONS AS SHOWN IN THE APPROVED DETAILS. THE SURFACE UNDER WOOD NAILERS SHALL BE FREE OF ALL CONTAMINANTS AND SHALL BE AS EVEN AS POSSIBLE. WHERE WOOD NAILERS ARE INSTALLED DIRECTLY ON THE SUBSTRATE, THE SUBSTRATE SHALL BE CAREFULLY EXAMINED TO CONFIRM THAT THE ENTIRE AREA PROVIDES A SUITABLE FASTENING SURFACE. ALL DEFECTS SHALL BE REPAIRED BY THE APPROPRIATE TRADE PRIOR TO INSTALLATION.
4. BASE LAYER OF BLOCKING AT PERIMETER TO BE FASTENED TO EXISTING MASONRY WALL WITH ⅜" DIA X 3¼" LONG TAPCON ANCHORS @ 16" O.C., TYPICAL. ALL SUCCESSIVE LAYERS SHALL BE FASTENED TO BLOCKING UNDERNEATH WITH APPROVED FASTENERS.

ROOFING NOTES:

- ALL FLUID APPLIED FLASHINGS SHALL BE COMPATIBLE WITH PROPOSED ROOFING SYSTEM. PRIME EXISTING ROOFING & SUBSTRATES AS REQUIRED PER FLUID APPLIED FLASHING MANUFACTURER.
- FLUID APPLIED FLASHING BASIS OF DESIGN: ALPHAGUARD BIO BY 'TREMCO, INC.'
- ALL BLOCKING SHALL BE FASTENED TO EXISTING METAL DECK (OR MASONRY) WITH APPROVED FASTENERS. (SEE WOOD BLOCKING NOTE)
- FASTEN BASE LAYER OF INSULATION TO METAL DECK WITH MANUFACTURER'S APPROVED FASTENERS. TOP LAYERS OF INSULATION AND COVER BOARD SHALL BE ADHERED WITH MANUFACTURER'S APPROVED LOW RISE FOAM ADHESIVE.
- ALL ALUMINUM (U.O.N.) SHALL BE KYNAR FINISH. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD RANGE.

EPDM DUCT WRAPPING NOTE:
ALL EXTERIOR EXPOSED DUCTWORK ON EXISTING ROOF TO BE WRAPPED WITH .060" THICK EPDM MEMBRANE. REFER TO MECHANICAL DRAWINGS & DETAILS FOR ADDITIONAL INFORMATION.

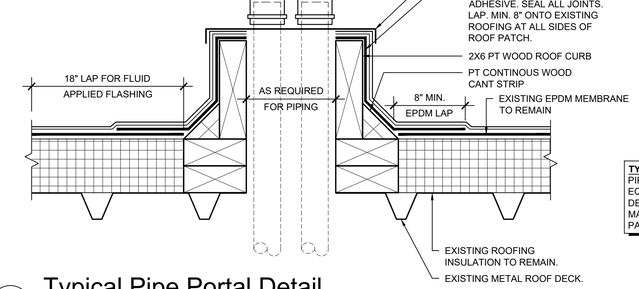
CRICKET NOTE:
CONTRACTOR SHALL PROVIDE A CRICKET MADE OF ¼" PER FOOT TAPERED POLYISO INSULATION AT HIGH SIDE OF ROOF PENETRATION TO PROVIDE POSITIVE DRAINAGE AROUND NEW CURB AND TO EXISTING ROOF DRAINS, TYPICAL.



5 A8.10 Typical Exhaust Fan Detail

3" = 1'-0"

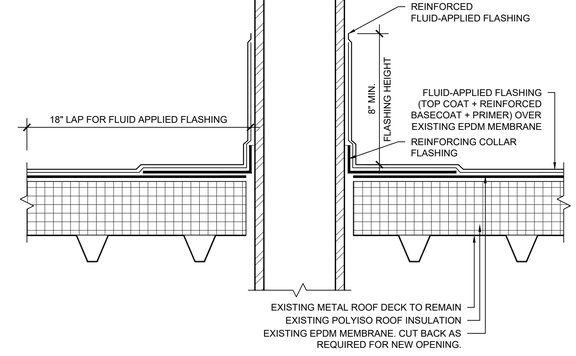
NEW EQUIPMENT ON EXISTING ROOF



TYPICAL ROOF CURB NOTE:
PIPE PORTAL, ROOF CURB & EQUIPMENT RAIL BASIS OF DESIGN TO BE AS MANUFACTURED BY 'THE PATE COMPANY.

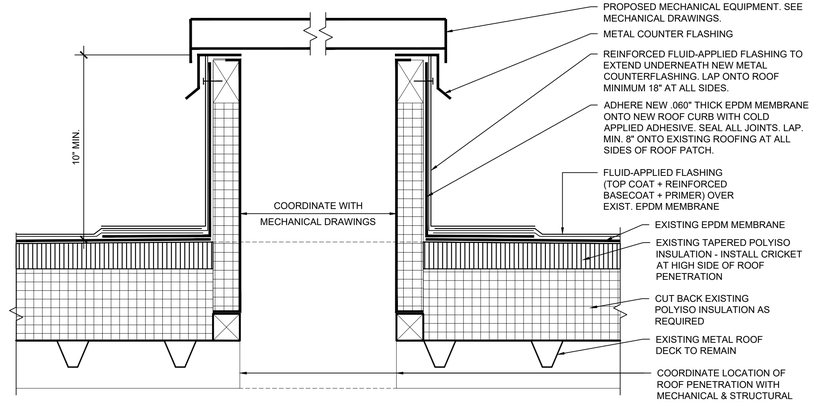
6 A8.10 Typical Pipe Portal Detail

3" = 1'-0"



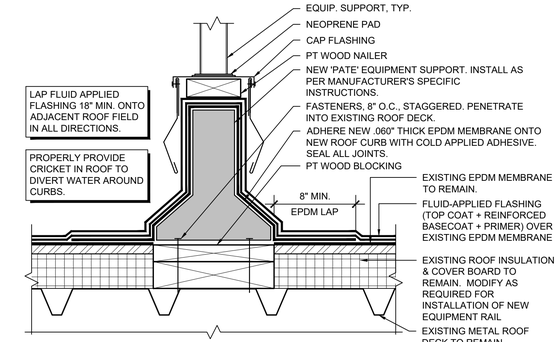
8 A8.10 Typical Steel Tube Penetration Detail

3" = 1'-0"



7 A8.10 Typical Mechanical Curb Detail

3" = 1'-0"



9 A8.10 Equipment Curb Detail

3" = 1'-0"

Date	10/15/21
Checked	CTB
Drawn	TT

MATTHEW T. MLNAMOW, R.A.
License No. 32407
Title REGISTERED ARCHITECT

Revisions:

1 PERMIT SET 10/15/21

LAN ASSOCIATES
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

ROOF DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

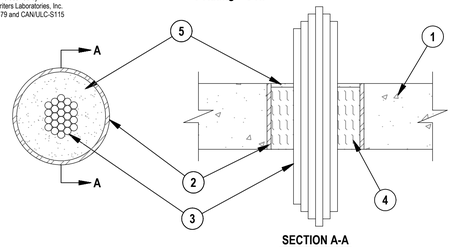
File No. 4155201A810

A8.10

System No. C-AJ-3180

F Rating - 3 Hr
T Rating = 0 Hr

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

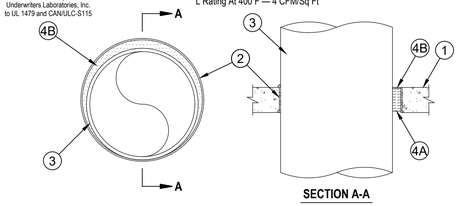
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 4-3/4 in. (121 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in.(152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — Aggregate cross-sectional area of cables in opening to be max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
   B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material.
   C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
   E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable.
   F. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
   G. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. (13 mm)
   H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
4. Packing Material — Min 4-1/4 in. (108 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
5. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.

*Bearing the UL Classification Mark

System No. C-AJ-1226

F Rating — 3 Hr T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

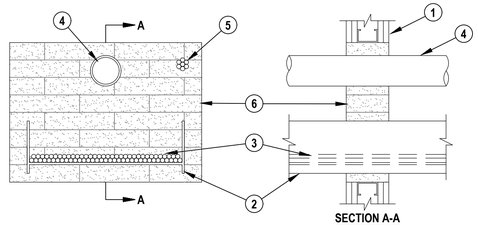
1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.
2. Metallic Sleeve — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.
2A. Sheet Metal Sleeve — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

System No. W-L-8013

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F — 2 CFM/sq ft



SECTION A-A

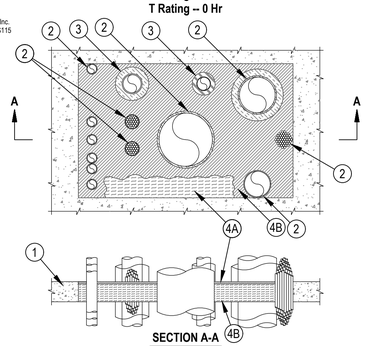
System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. Additional studs installed to completely frame the opening.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 352 sq in. (2271 sq cm) with max dimension of 22 in. (559 mm) wide.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cable Tray* — Max 18 in. (457 mm) wide by max 6 in. (152 mm) deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.065 in. (1.65 mm) thick aluminum or 0.060 in. (1.52 mm) thick steel and with 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shape rungs spaced 9 in. (229 mm) OC or a 0.029 in. (0.74 mm) thick steel solid back, respectively. One cable tray to be installed in the opening. The max annular space between the cable tray and the periphery of the opening shall be min 1 in. (25 mm) to max 7 in. (178 mm) Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables — Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
   A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 100 pair - No. 24 AWG cable with PVC insulation and jacket.
   C. 1/C, 750 kcmil (or smaller) with PVC insulation and jacket.
4. Through-Penetrants — One or more pipe or tube to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between the pipe or tube and the periphery of the opening shall be min 1-1/2 in. (38 mm) to max 9-1/4 in. (235 mm). Pipe or tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of non-metallic or metallic pipes, or tubes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Max 3 in. (76 mm) diam Schedule 40 solid core PVC pipe (or smaller) for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
   D. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
4A. Pipe Covering — (Not Shown) Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf) (56kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering and Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 may be used.
5. Cables — Max 1-1/2 in. (38 mm) diam tight bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The space between the cables and periphery of the opening shall range from 1-3/16 in. (30.2 mm) min to a max of 1-1/2 in. (38 mm). Any combination of the following types and sizes of cables may be used:
   A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
   B. 25 pair — No. 24 AWG cable with PVC insulation and jacket.
   C. Type R GU/59 coaxial cable with PVC outer jacket.
   D. 24 fiber optic cable with PVC sub unit and outer jacket.
6. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* — Fire Blocks For walls incorporating max 3-5/8 in. (92 mm) steel studs or max 2 (51 mm) by 4 in. (102 mm) wood studs, fire block installed with 5 in. (127 mm) dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. (13 mm) from surface of wall. Blocks to be firmly packed in opening. Either one or a combination of the block types specified below may be used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block
   B. Fill, Void or Cavity Material* — Sealant or Putty - Fill material to be forced into interstices of cables, between cables and cable trays, around each penetrant and where obvious voids are observed to max extent possible on both surfaces of the penetration.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, FS-ONE MAX Intumescent Sealant, CP 618 Putty Stick or CP620 Fire Foam

System No. C-AJ-8143

F Rating — 2 Hr
T Rating — 0 Hr

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

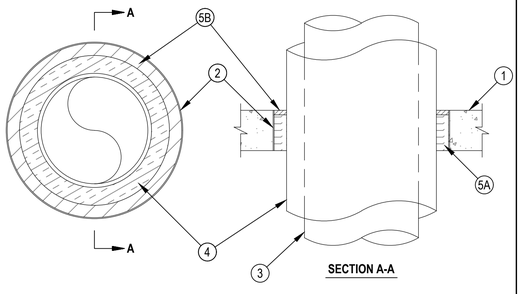
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max size of opening is 1440 in.2 (9,290 cm2) with a max dimension of 48 in. (1219 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrant — One cable tray and one or more pipes, tubes or cable bundles may be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces are maintained. The annular space between cable tray and all other penetrants shall be min 3 in. (76 mm). The annular space between individual cables and cable bundles shall be a min 1/2 in. (13 mm). The annular space between individual cables and cable bundles and other penetrants shall be a min 1/2 in. (13 mm) except that a min 2 in. (51 mm) shall be maintained between the cables and copper pipes and tubes greater than a nom 3 in. (76 mm) diam and steel and iron pipes and conduits greater than a nom 4 in. (102 mm) diam. The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 2 in. (51 mm). The annular space between nom 3 in (76mm) diam (and smaller) copper pipes and tubes and between nom 4 in (102mm) diam (and smaller) steel and iron pipes and conduits shall be min 1/2 in. (13 mm). The annular space between nom 2 in. (51 mm) diam (and smaller) metallic pipes and conduits shall be min 0 in. (point contact). The annular space between insulated penetrants or the cable tray and the periphery of opening shall be min 1/2 in. (13 mm). The annular space between all other penetrants and the periphery of opening shall be min 0 in. (point contact). A max annular space in the system shall be 12 in. (305 mm). Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used.
   A. Metallic Pipes — The following types of metallic pipes, tubes or conduits may be used:
      1. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
      2. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
      3. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
      4. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
      5. Conduit — Nom 4 in. (102 mm) diam (or smaller) electric metallic tubing (EMT) or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   B. Cables Bundles — Max 4 in. (102 mm) diam tightly bundled cables. Any combination of the following types and sizes of cables may be used:
      1. Max 500 kcmil single copper or aluminum conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
      2. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
      3. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
      4. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.
      5. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.
   C. Individual Cables — Any of the following types and sizes of individual (non-bundled) cables may be used:
      1. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
      2. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category.
      See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
      3. Max 500 kcmil single copper or aluminum conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
      4. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
      5. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
      6. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.
      7. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.
      8. Max 4C/750 kcmil (or smaller) aluminum or copper conductor metal clad cable with aluminum or steel armor, with or without PVC jacket.
   D. Cable Tray* — (Not Shown) — Max 24 in. (610 mm) wide by 6 in. (152 mm) deep open-ladder steel or aluminum cable tray. Aggregate cross-sectional area of cable tray to be max 40 percent of the cross-sectional area of the cable tray based on a max 3 in. cable loading depth. Any combination of the types and sizes of cables described in Item 2B may be used. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Pipe Insulation — (Optional) - Pipes and tubes of the sizes noted below may be provided with one of the following types of pipe insulations::
   A. Pipe Covering* — Nom 1-1/2 in. (38 mm) thick (or thinner) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket for pipes with a nom diam of 8 in. (203 mm) (or smaller) or tubes with a nom diam of 4 in. (102 mm) (or smaller). Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   B. Pipe Covering* — Nom 2 in. (51 mm) thick (or thinner) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket for pipes or tubes with a nom diam of 2 in. (51 mm) (or smaller). Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   C. Tube Insulation-Plastics+ — Nom 1 in. (25 mm) thick (or thinner) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing for pipes or tubes with a nom diam of 2 in. (51 mm) (or smaller).
   See Plastics (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m³) mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material - Sealant* — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with the top surface of the floor or both surfaces of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant

*Bearing the UL Classification Mark

System No. C-AJ-5091

F Rating — 2 Hr
T Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

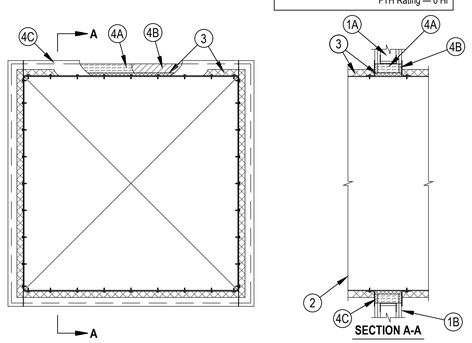
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.
2. Metallic Sleeve — (Optional) — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.
2A. Sheet Metal Sleeve — (Optional) - Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
4. Pipe Covering — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.
   See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224 kg/m³) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm).
5. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

System No. W-L-7156

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0 Hr



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. Max size of opening is 210 sq in. (1355 cm²) with a max width of 14-1/2 in. (368 mm) for wood studs. Max size of opening is 76.2 sq ft. (7 m²) with a max width of 105-1/2 in. (2.7 m) for steel studs.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall in which it is installed.
2. Steel Duct — Max 100 by 100 in. (2.5 by 2.5 m) steel duct to be installed within the framed opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Steel duct to be rigidly supported on both sides of wall assembly.
3. Batts and Blankets* — Nom 1-1/2 or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m³) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed minimum 50% such that the annular space within the firestop system shall be min 1/2 in. (13 mm) to max 2 in. (51 mm).
   See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 3-5/8 (92 mm) or 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form for 1 or 2 hr fire-rated walls, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant
   C. Steel Retaining Angles — Min No. 16 gauge (0.059 in. or 1.5 mm) galv steel angles sized to lap steel duct a min of 2 in. 51 mm) and lap wall surfaces a min of 1 in. (25 mm). Angles attached to steel duct on both sides of wall with min No. 10 steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in² (8387 cm²), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max 1-1/2 in. (38 mm) thick insulation is used, steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

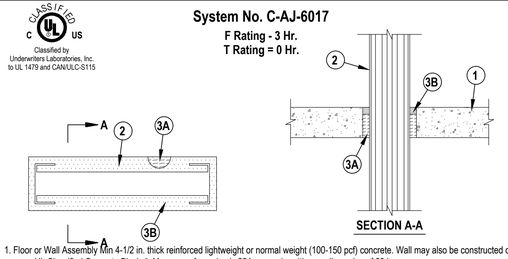
*Bearing the UL Classification Mark

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

System No. C-AJ-6017

F Rating - 3 Hr.
T Rating = 0 Hr.

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Floor or Wall Assembly Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 224 square in. with max dimension of 28 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Busway+ Nominal 26 in. wide (or smaller) by 6 in. deep "I" shaped steel enclosure containing factory mounted aluminum bars rated for 600 V, 4000 A. One busway to be installed within the opening. the annular space between the flange tip of the busway and the periphery of the opening shall be 1 in. The annular space between the web of the busway and the periphery of the opening shall be 2 in. Busway to be ridged supported on both sides of floor and wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of Article 364 of the National Electrical Code, NFPA No. 70.
3. Firestop System The firestop system shall consist of the following:
   A. Packing Material Min 3-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* -- Sealant Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant

+Bearing the UL Listing Mark *Bearing UL Classification Mark

FIRESTOPPING NOTES:

1. FIRESTOPPING ASSEMBLIES SHOWN ON THIS SHEET REPRESENT VARIOUS RATED ASSEMBLIES THAT MAY BE REQUIRED FOR THIS PROJECT. ADDITIONAL CONDITIONS AND ASSEMBLIES MAY EXIST AND THE CONTRACTOR SHALL REFER TO THE SELECTED MANUFACTURER FOR ADDITIONAL ASSEMBLY TYPES.
2. FIRESTOPPING DETAILS WERE OBTAINED FROM AND REPRODUCED BY HILTI, INC. COURTESY OF UNDERWRITERS LABORATORIES, INC. (UL) AND ARE SHOW AS THE BASIS OF DESIGN. USE OF THESE DETAILS AND REFERENCE TO HILTI, INC. PRODUCTS OR SYSTEMS DOES NOT PRECLUDE THE USE OF OTHER PRODUCTS THAT ARE SUBMITTED AND APPROVED AS EQUAL.
3. REFER TO CODE REVIEW PLANS FOR REQUIRED FIRE RATINGS. PROVIDE APPROPRIATE FIRESTOPPING FOR FIRE RATING AS PER FIRESTOPPING DETAILS.

Date	10/15/21
Checked	CTB
Drawn	CC

MATTHEW T. MILNAMOW, R.A.
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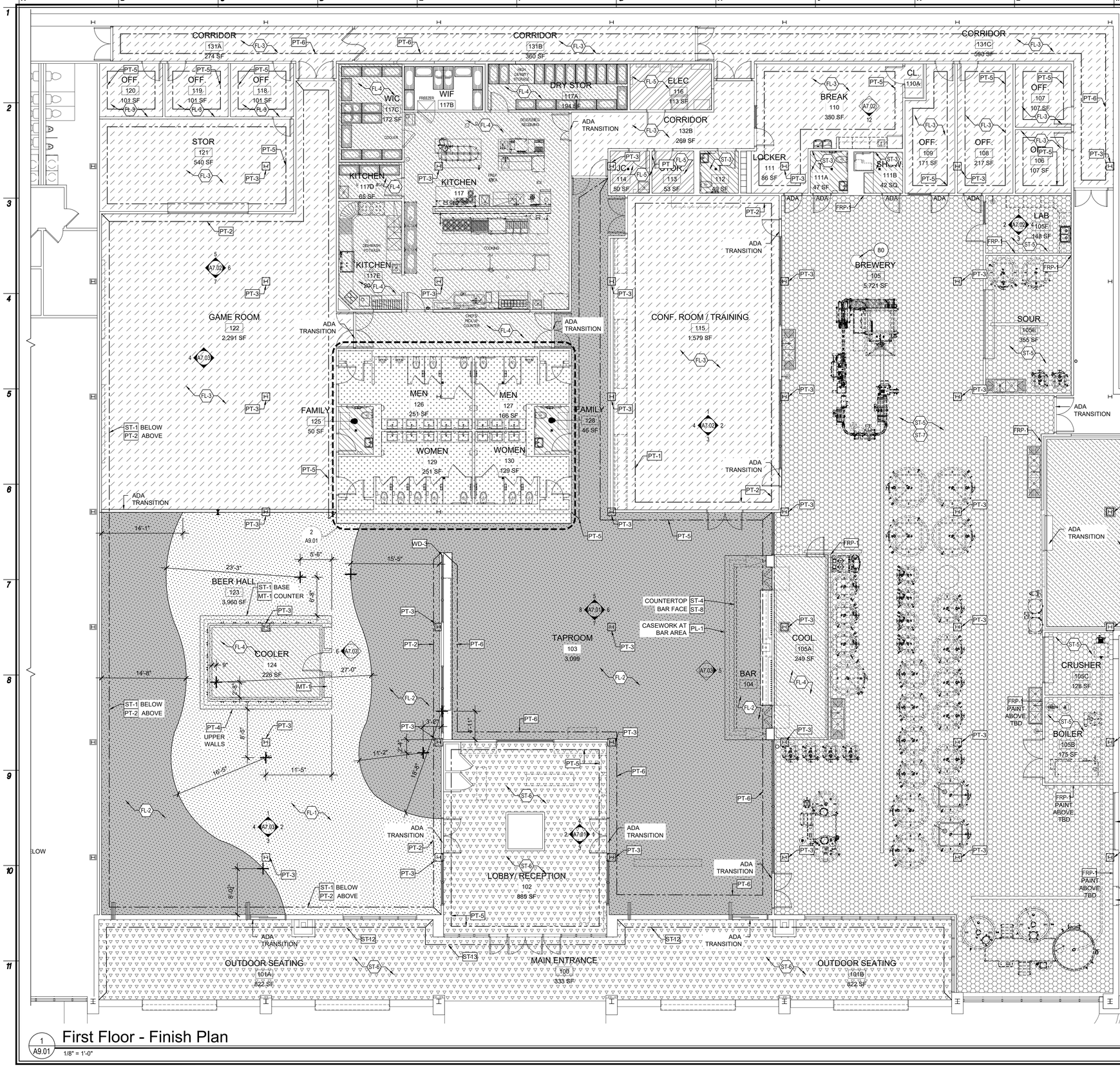
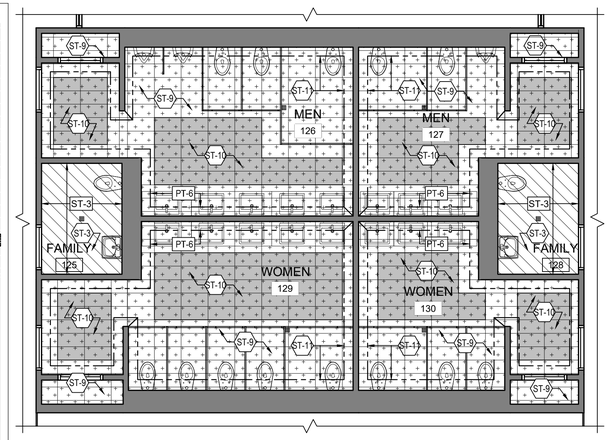
FIRESTOPPING DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A820

A8.20



1 A9.01 First Floor - Finish Plan
1/8" = 1'-0"



2 A9.01 First Floor - Partial Finish Plan
3/16" = 1'-0"

PROJECT NORTH

CONTROL AND EXPANSION JOINT NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWINGS OF ALL FLOOR TILE FOR ARCHITECT APPROVAL. PROVIDE SOFT JOINTS WITH SEALANT TO MATCH SURROUNDING GROUT COLOR EVERY 20'-24' IN BOTH DIRECTIONS. PROVIDE METAL EXPANSION JOINT BY 'SCHLUTER' (BASIS OF DESIGN) AT INTERSECTION OF ALL SEPARATE SLAB POURS. PROVIDE ADDITIONAL EXPANSION JOINTS AS RECOMMENDED BY MANUFACTURER. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND PRACTICES RECOMMENDED BY TILE COUNCIL OF NORTH AMERICA.

TRANSITION NOTE:
CONTRACTOR TO PROVIDE ADA TRANSITIONS AT ALL FLOOR MATERIAL CHANGES. BASIS OF DESIGN TO BE "SCHLUTER SYSTEMS" TYP. FINISH TO BE SELECTED BY OWNER.

Finish Floor Legend

SEE FINISH SCHEDULE LEGEND ON SHEET A6.20

- **FL-1** EPOXY FLOORING - LIGHT
- **FL-2** EPOXY FLOORING - DARK
- **FL-3** LVT
- **FL-4** URETHANE MODIFIED CONC.
- **FL-5** PAINTED CONCRETE
- **ST-3** PORCELAIN FLOOR/WALL TILE
- **ST-5** (FIELD) & **ST-7** (ACCENT) CERAMIC TILE
- **ST-6** PORCELAIN TILE
- **ST-9** (ACCENT) & **ST-10** (FIELD) PORCELAIN TILE

SURFACE PREPARATION NOTE:
WHERE REQUIRED, NEW FINISH FLOOR TO BE INSTALLED OVER SELF LEVELING MATERIAL. BASIS OF DESIGN TO BE 'CMP LEVEL 1' SELF-LEVELING WITH 'CMP LOCKDOWN' VAPOR SUPPRESSION SYSTEM.
REFER TO FLOOR PATTERN PLANS OF INDIVIDUAL AREAS FOR ADDITIONAL INFORMATION. CONSULT INDIVIDUAL FLOORING MANUFACTURER TO VERIFY SURFACE PREPARATION REQUIREMENTS AND COMPATIBILITY.

REFER TO INTERIOR FINISH SCHEDULE ON DRAWING A6.20 FOR ADDITIONAL INFORMATION.

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

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FIRST FLOOR - FINISH PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A901

A9.01

MILWORK SCHEDULE		
MILWORK ITEM	ELEVATION	SECTION
M1A,B,C	4/A7.02	1/A9.11
M2	4/A7.02	2/A9.11
M3	1/A7.02	3/A9.11
M4A	6/A7.01	4/A9.11
M4B	5/A7.03	5/A9.11
M5	7/A9.11	6/A9.11
M6A	4/A7.01	8/A9.11
M6B	4/A7.01	8/A9.11
M7	3/A9.12	4/A9.12
M8	5/A9.12	8/A9.12
M9	4/A7.01	9/A9.11
M10	10/A9.11	10/A9.11
M11	1/A7.01	11/A9.11
M12	5/A7.01	10/A9.12
M13	1/A9.12	2/A9.12
M14	4/A7.03	9/A9.12
M15	7/A9.12	6/A9.12

NOTE: FURNITURE SHOWN FOR PLANNING PURPOSES ONLY. FURNITURE PACKAGE TO BE PROVIDED AND INSTALLED BY OWNER. OWNER TO ENSURE MOVABLE FURNITURE LAYOUT MEETS EGRESS REQUIREMENTS.

CONTRACTOR TO PROVIDE AND INSTALL CONTINUOUS MATCHING PLYWOOD CLOSURE PANEL

NOTE: REFER TO SHEET **A2.00** FOR CONSTRUCTION KEY NOTES

1 A9.10 First Floor Furnishing Plan

1/8" = 1'-0"

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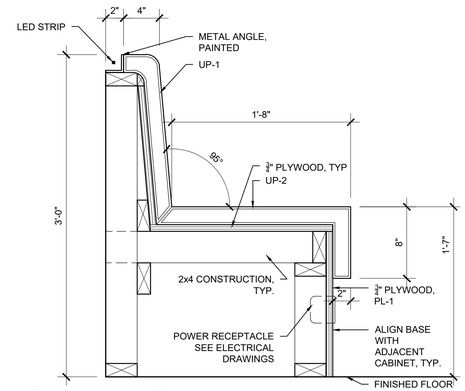
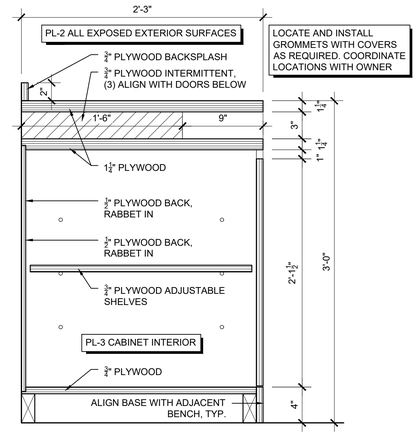
FIRST FLOOR FURNISHING PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A910

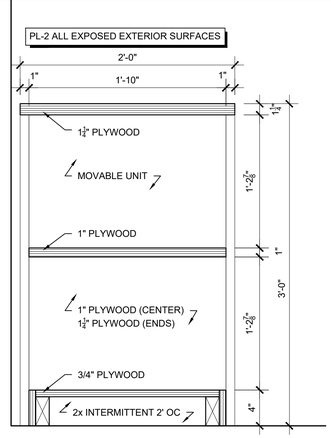
A9.10



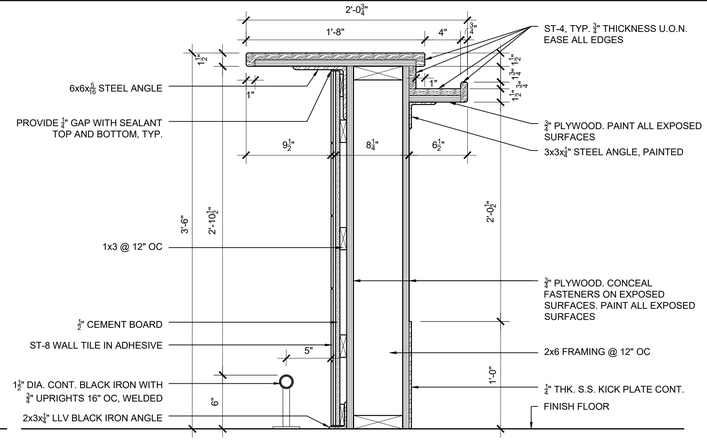
1 A9.11 — Banquette Section — 1 1/2" = 1'-0" — M-1A,B,C BANQUETTE



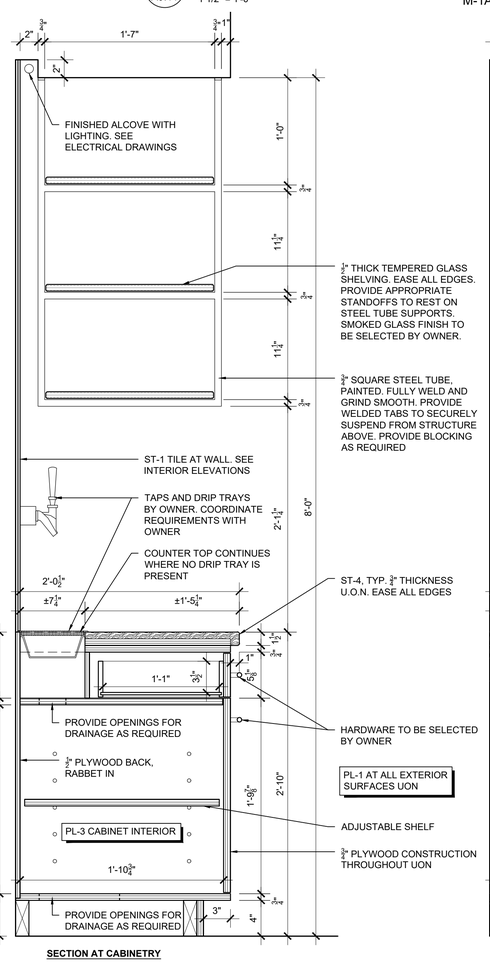
2 A9.11 — Cabinet Section — 1 1/2" = 1'-0" — M-2



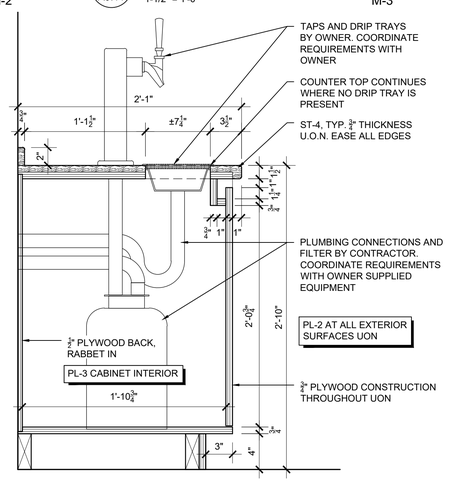
3 A9.11 — Console Section — 1-1/2" = 1'-0" — M-3



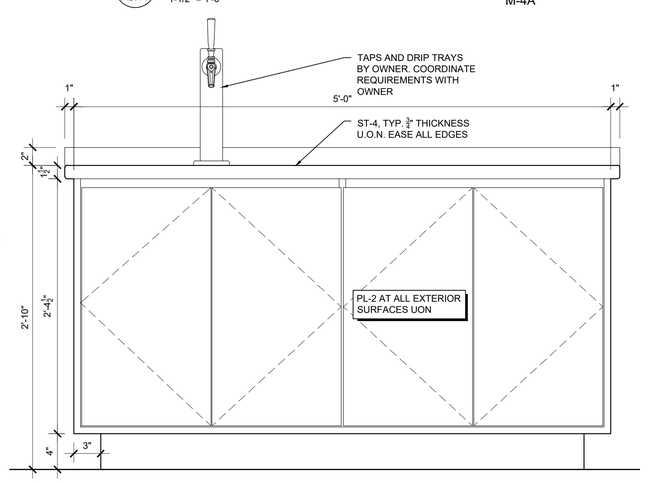
4 A9.11 — Bar Counter Section — 1-1/2" = 1'-0" — M-4A



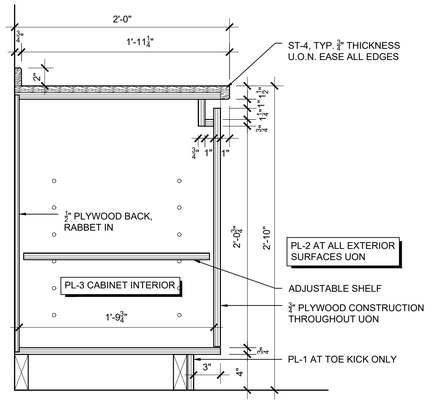
5 A9.11 — Back Bar Sections — 1 1/2" = 1'-0" — M-4B



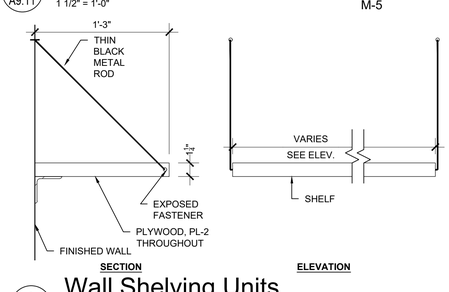
6 A9.11 — Water Stand Section — 1 1/2" = 1'-0" — M-5



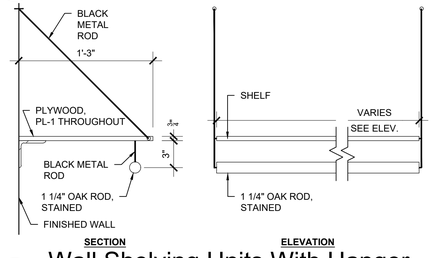
7 A9.11 — Water Stand Elevation — 1 1/2" = 1'-0" — M-5



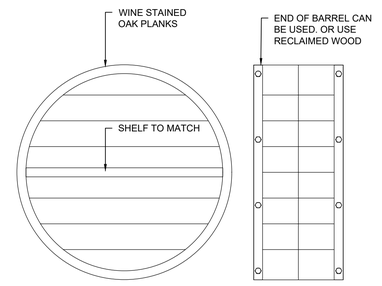
8 A9.11 — Merchandise Cabinet Section — 1 1/2" = 1'-0" — M-6A,B



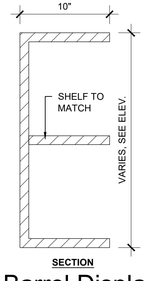
9 A9.11 — Wall Shelving Units — 1 1/2" = 1'-0" — M-9



11 A9.11 — Wall Shelving Units With Hanger — 1 1/2" = 1'-0" — M-11



10 A9.11 — Wine Barrel Display Case — 1 1/2" = 1'-0" — M-10



NOTE: SEE CUSTOM CABINETRY NOTE ON **A2.00**. SEE FINISH LEGEND ON **A6.20**. ALL ITEMS SHOWN TO BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. SECURE TO FLOOR, TYP. UNLESS OTHERWISE NOTED

Date	10/15/21
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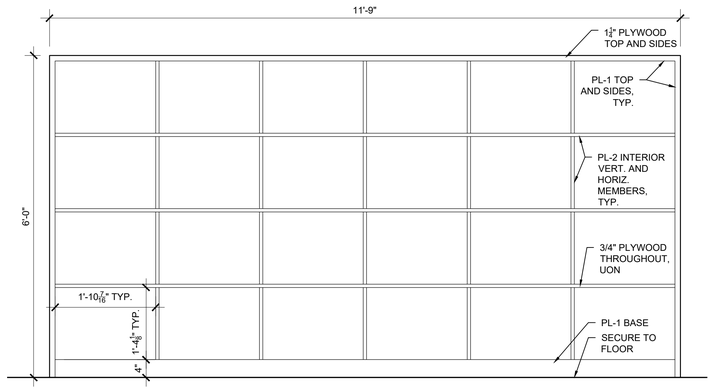
FIRST FLOOR FURNISHING DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

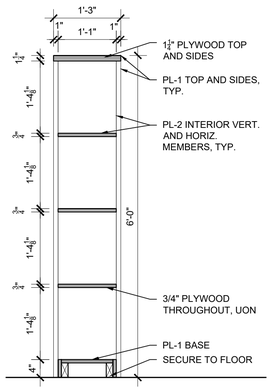
Job No. 4.1552.01

File No. 4155201A910

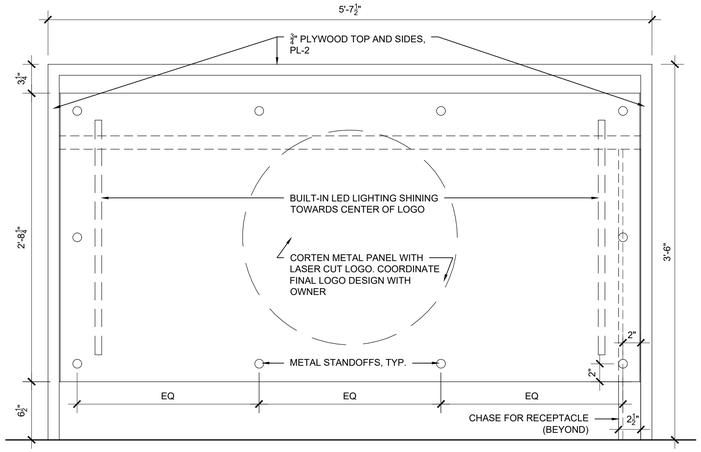
A9.11



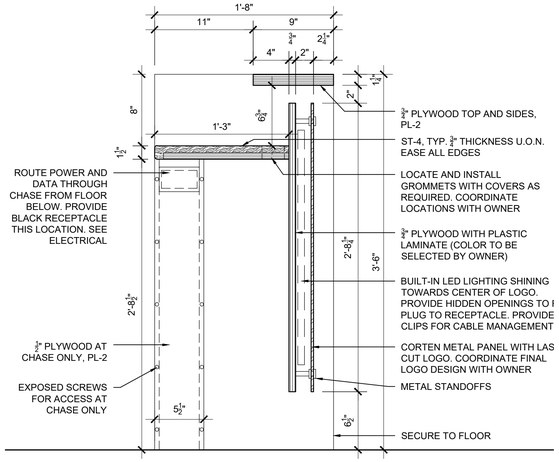
1 A9.12 **Divider Elevation**
3/4" = 1'-0" M-13



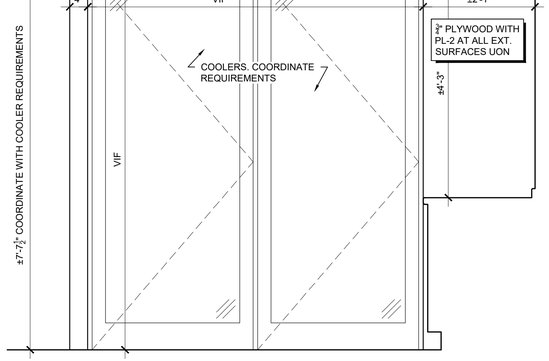
2 A9.12 **Divider Section**
3/4" = 1'-0" M-13



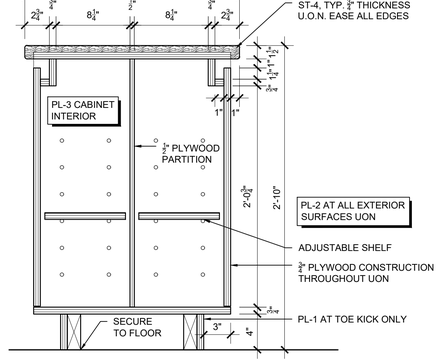
3 A9.12 **Counter Elevation**
1 1/2" = 1'-0" M-7



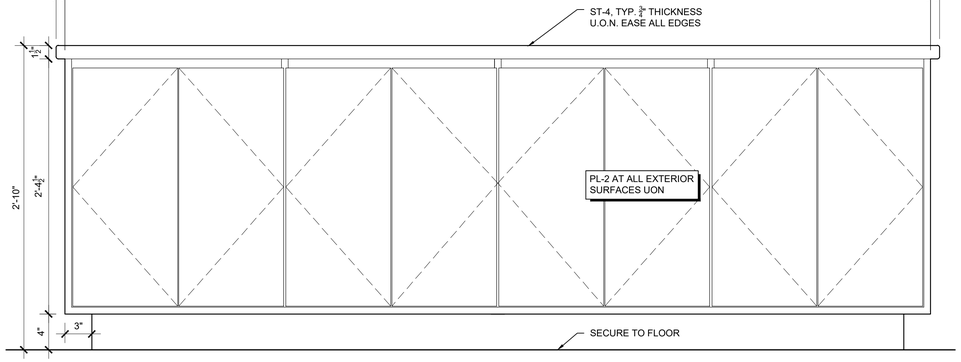
4 A9.12 **Counter Section**
1 1/2" = 1'-0" M-7



5 A9.12 **Cooler Enclosure Elevation**
3/4" = 1'-0" M-8

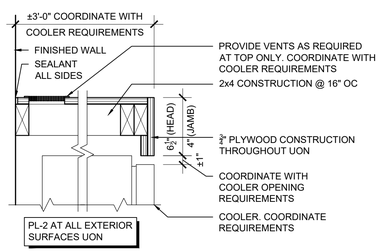


6 A9.12 **Display Section**
1 1/2" = 1'-0" M-15

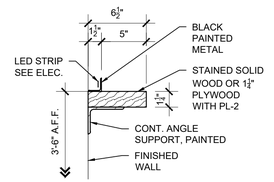


7 A9.12 **Display Elevation**
1 1/2" = 1'-0" M-15

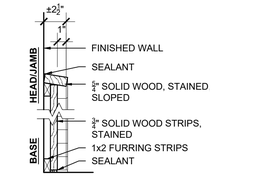
NOTE: SEE CUSTOM CABINETRY NOTE ON **A2.00**. SEE FINISH LEGEND ON **A6.20**. ALL ITEMS SHOWN TO BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. SECURE TO FLOOR, TYP. UNLESS OTHERWISE NOTED



8 A9.12 **Cooler Enclosure Section**
1 1/2" = 1'-0" M-8



9 A9.12 **Section**
1 1/2" = 1'-0" M14



10 A9.12 **Wood Trim Detail**
1 1/2" = 1'-0" M-12

Date	10/15/21
Checked	CTB
Drawn	SJV

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:
1 PERMIT SET 10/15/21

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FIRST FLOOR FURNISHING DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
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Job No. 4.1552.01
File No. 4155201A910

A9.12

EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HOT WATER SIZE (IN)	COLD WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	INDIR. DRAIN SIZE (IN)	GAS SIZE (IN)	MBTUH	HP	KW	AMPS	PLUG DIRECT	VOLTS	PHASE	NEMA	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
1	S.S. PASS-THRU SILL	1														GATES MFG.	CUSTOM	
2	SOILED DISH TABLE	1														GATES MFG.	CUSTOM	
3	SCRAP CHUTE, BUILT-IN	1														GATES MFG.	CUSTOM	
4	PRE-WASH SINK, BUILT-IN	1	1/2	1/2		2										GATES MFG.	CUSTOM	
5	DISHRACK SHELF, WALL MNTD.	1														NEW AGE	52924	
6	WAREWASHER, RACK CONVEYOR	1	1/2	1/2		2			2.2	15.0	27.9	X	480	3		HOBART US FOODSERVICE	CL44EN-BAS	MACHINE CONNECTION
										30.0	40.1	X	480	3				BOOSTER CONNECTION
7	SPARE NUMBER	–																
8	EXHAUST HOOD, TYPE II	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 1,000 C.F.M.													CAPTIVE AIRE	CUSTOM	
9	CLEAN DISH TABLE	1														GATES MFG.	CUSTOM	
10	ROLLER TABLE, GRAVITY FED	1				1										GATES MFG.	CUSTOM	
11	DISH DOLLY, ADJUSTABLE	2														METRO	PCD11A	
12	3-COMPARTMENT SINK, POTWASH	1	1/2	1/2		(2)2										GATES MFG.	CUSTOM	
			1/2	1/2		2												
13	STORAGE SYSTEM, WALL MNTD.	1														EAGLE GROUP/ METAL MASTERS	WAL-STOR	
14	SPARE NUMBER	–																
15	HAND SINK, WALL MNTD.	1	1/2	1/2	1-1/2						5.0	X	120	1	5-15P	IMC/TEDDY	WS	
16	RACKS, DRYING	3														METRO	PR48VX3-XDR	
17	SINK, MOP	1	1/2	1/2	2											IMC/TEDDY	FS-D	
18	MOP DRAINAGE TRAY, WALL MNTD.	1														IMC/TEDDY	FST-21	
19	STORAGE SHELVING, PORTABLE	3														METRO	MQ2142G	
20	WALK-IN COOLER	1									15.0		X 120	1		NOT IN CONTRACT		
21	SPARE NUMBER	–																
22	REFRIGERATION TO ITEM #20	1									16.1		X 208	3		NOT IN CONTRACT		REMOTE COMPRESSOR
						3/4					1.5		X 120	1		NOT IN CONTRACT		EVAPORATOR COIL
23	STORAGE SHELVING, PORTABLE	12														METRO	MQ2148G	
24	WALK-IN FREEZER	1									15.0		X 120	1		NOT IN CONTRACT		
25	REFRIGERATION TO ITEM #24	1									20.4		X 208	3		NOT IN CONTRACT		REMOTE COMPRESSOR
						3/4					9.8		X 208	1		NOT IN CONTRACT		EVAPORATOR COIL
26	SAFETY FLOORING, FULLY WELDED	LOT														HIGH PERFORMANCE FLOORS	PROTECT-ALL	
27	STORAGE SHELVING, PORTABLE	8														METRO	MQ2148G	
28	SPARE NUMBER	–																
29	UNIVERSAL RACK, ROLL-IN	2														PIPER PRODUCTS	R611	
30	FILTER SYSTEM FOR ITEM #32	1		3/4												EVERPURE	EV9324-02	
31	BIN, ICE	1				1										ITV ICE MAKERS	S-400-22	
32	ICE MAKER, CUBE STYLE	1		3/4		1					15.0		X 120	1		ITV ICE MAKERS	SPIKA MS 700	C.W. PIPED FROM ITEM #30
33	STORAGE SHELVING, HIGH DENSITY	12														METRO	MQ2142G	
34	STORAGE SHELVING, PORTABLE	6														METRO	MQ2142G	
35	SPARE NUMBER	–																
36	WORK COUNTER W/ SINK	1	1/2	1/2		2					12.0	X	120	1	5-15R	IMC/TEDDY	CUSTOM	
37	BAG-IN-BOX SYSTEM, BEVERAGE	1									12.0	X	120	1	5-15P	VENDOR SUPPLIED	CUSTOM	
38	DISPENSER, BEVERAGE/CARBONATED	1		1/2		1					12.0	X	120	1	5-15P	VENDOR SUPPLIED		
39	REFRIGERATOR, UNDERCOUNTER	1							0.2		2.0	X	120	1	5-15P	BEVERAGE-AIR	UCR36AHC	
40	FILTER SYSTEM FOR ITEM #38/41	1		3/4												EVERPURE	SQ-MC SYSTEM	
41	COFFEE MAKER, AUTOMATIC	1		1/4						1.8	15.0	X	120	1	5-15P	BUNN-O-MATIC	12950.0216	C.W. PIPED FROM ITEM #40
42	SPARE NUMBER	–																
43	ADA WORK TABLE W/ SINK	1	1/2	1/2		2					12.0	X	120	1	5-15R	IMC/TEDDY	CUSTOM	
44	OVERSHELF, SPLASH MNTD.	1														IMC/TEDDY	CUSTOM	
45	WORK TABLE	1									12.0	X	120	1	5-15R	IMC/TEDDY	CUSTOM	
46	OVERSHELF, SPLASH MNTD.	1														IMC/TEDDY	CUSTOM	
47	SLICER, FOOD	1							0.5		7.0	X	120	1	5-15P	BERKEL	X13-PLUS	
48	POT RACK, CEILING MOUNT	1														IMC/TEDDY	PRC-3-2484	
49	SPARE NUMBER	–																
50	WORK TABLE	1									12.0	X	120	1	5-15R	IMC/TEDDY	CUSTOM	
51	OVERSHELF, SPLASH MNTD.	1														IMC/TEDDY	CUSTOM	
52	CAN OPENER, MANUAL	1														EDLUND	S-11	
53	REFRIGERATOR, REACH-IN	1							0.25		2.7	X	120	1	5-15P	BEVERAGE-AIR	HRPS1HC-1S	
54	ADA HAND SINK, WALL MNTD.	1	1/2	1/2	1-1/2						5.0	X	120	1	5-15P	IMC/TEDDY	ADA-WS	
55	2-COMPARTMENT, PREP. TABLE	1	1/2	1/2		(2)2										IMC/TEDDY	CUSTOM	
56	REFRIGERATOR, WORKTOP	1							0.3		5.0	X	120	1	5-15P	BEVERAGE-AIR	WTRD93AHC-2	
57	STORAGE SYSTEM, WALL MNTD.	1														EAGLE GROUP/ METAL MASTERS	WAL-STOR	
58	CUTTER/MIXER, VERTICAL & VEG.	1							0.5		7.0	X	120	1	5-15P	ROBOT COUPE	R2N	
59	CABINET, MOBILE, WARM/HOLD	1								1.5	12.0	X	120	1	5-15P	CRES COR	H-137-SUA-12D	
60	S.S. WALL PANEL(S), 336" L	LOT														CAPTIVE AIRE	CUSTOM	
61	OVEN, CONVECTION, GAS	2				3/4	140				8.0	X	120	1	5-15P	ROYAL RANGE OF CALIFORNIA	RCOS-2	
											8.0	X	120	1	5-15P			
62	FRYER, DEEP FAT, GAS W/FILTER	1				1-1/4	342				9.0	X	120	1	5-15P	ROYAL RANGE OF CALIFORNIA	RFT-50-CM-3	
											1.0	X	120	1	5-15P			
											1.0	X	120	1	5-15P			
63	REFRIGERATOR, WORKTOP	1							0.3		5.0	X	120	1	5-15P	BEVERAGE-AIR	WTRD119AHC-2	
64	STAND, COOKING EQUIPMENT, REFRIG. BASE	1							0.3		5.0	X	120	1	5-15P	BEVERAGE-AIR	WTRCS72HC	
65	GRIDDLE, COUNTERTOP, GAS	1				3/4	90									ROYAL RANGE OF CALIFORNIA	RDSA-36-D	
66	CHARBROILER, COUNTERTOP, GAS	1				3/4	90									ROYAL RANGE OF CALIFORNIA	RDRB-36	
67	RANGE, RESTAURANT, GAS	2				3/4	215									ROYAL RANGE OF CALIFORNIA	RR-6	
68	RANGE, RESTAURANT, GAS	1				3/4	147									ROYAL RANGE OF CALIFORNIA	RR-4	
69	EXHAUST HOOD, TYPE I	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 4,500 C.F.M.													CAPTIVE AIRE	CUSTOM	
70	FILLER FAUCET, WALL MNTD.	2	1/2	1/2												FISHER	4731	
71	SUPPLY PLENUM, MAKE-UP AIR	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 3,950 C.F.M.													CAPTIVE AIRE	CUSTOM	
72	POT RACK, HOOD MOUNT	1														IMC/TEDDY	CUSTOM	
73	EXHAUST HOOD, CONTROL PANEL	1									15.0		X 120	1		CAPTIVE AIRE	CUSTOM	
74	FIRE PROTECTION SYSTEM	1									15.0		X 120	1		CAPTIVE AIRE	UL-300 (R-102)	
75	FIRE EXTINGUISHER, WALL MNTD.	1														CAPTIVE AIRE	K-CLASS	
76	CHEF COUNTER W/ SINK	1	1/2	1/2		2					12.0	X	120	1	5-15R	IMC/TEDDY	CUSTOM	
77	SPARE NUMBER	–																
78	DROP-IN, BAIN MARIE, HOT	1				1				2.7	13.0		X 208	1		WELLS	HT-300	
79	OVERSHELF, 2-TIER, CEILING MNTD.	1														IMC/TEDDY	CUSTOM	
80	WARMER, FOOD OVERHEAD	3								1.3	11.2		X 120	1		HATCO	GRAHL-48	
81	REFRIGERATOR, SANDWICH/SALAD PREP	1							0.3		5.4	X	120	1	5-15P	BEVERAGE-AIR	SPE60HC-16C	
82	HAND SINK, WALL MNTD.	1	1/2	1/2	1-1/2						5.0	X	120	1	5-15P	IMC/TEDDY	WS	
83	FREEZER, REACH-IN	1							0.8		10.0	X	120	1	5-15P	BEVERAGE-AIR	HFPS2HC-1S	
84	EXHAUST HOOD, TYPE I	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 1,500 C.F.M.													CAPTIVE AIRE	CUSTOM	
85	SUPPLY PLENUM, MAKE-UP AIR	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 1,250 C.F.M.													CAPTIVE AIRE	CUSTOM	
86	EXHAUST HOOD, CONTROL PANEL	1									15.0		X 120	1		CAPTIVE AIRE	CUSTOM	
87	FIRE PROTECTION SYSTEM	1									15.0		X 120	1		CAPTIVE AIRE	UL-300 (R-102)	

Date	4/2/21
Checked	RRA
Drawn	BJF

MATTHEW T. MILNAMOW, R.A.
License No. 32407
Title REGISTERED ARCHITECT

Revisions:

LAN ASSOCIATES L.L.P.
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FOOD SERVICE EQUIPMENT PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A701

FS1.01

HOOD INFORMATION – JOB#4965380

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	8	4224 VHB-G	CAPTIVEAIRE	7' 0"	700 DEG	II	N/A	143	1000			4"	12"	1000	1273	-0.117"	0	304 SS 100%	ALONE	ALONE
2	69,71 L	6024 ND-2-PSP-F	CAPTIVEAIRE	9' 6"	600 DEG	I	HEAVY	242	2300			4"	16"	2300	1647	-0.824"	2000	304 SS 100%	LEFT	ALONE
3	69,71 R	6024 ND-2-PSP-F	CAPTIVEAIRE	9' 11"	600 DEG	I	HEAVY	222	2200			4"	16"	2200	1576	-0.753"	1950	304 SS 100%	RIGHT	ALONE
4	84, 85	6024 ND-2-PSP-F	CAPTIVEAIRE	7' 6"	450 DEG	I	MEDIUM	200	1500			4"	14"	1500	1403	-0.716"	1250	304 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	8						0									NO	227 LBS
2	69,71 L	CAPTRATE SOLID FILTER	7	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FIRE SUPPRESSION	4.0/4.0/4.0/4.0			YES	1107 LBS
3	69,71 R	CAPTRATE SOLID FILTER	7	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO							YES	631 LBS
4	84, 85	CAPTRATE SOLID FILTER	5	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FIRE SUPPRESSION	4.0	DCV-1111	1 LIGHT 1 FAN	YES	803 LBS

HOOD OPTIONS

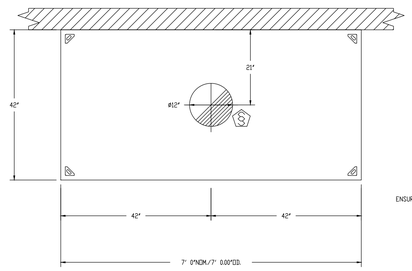
HOOD NO	TAG	OPTION
1	8	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
2	69,71 L	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 245.00" LONG 304 SS VERTICAL.
		STRUCTURAL FRONT PANEL.
		RISER SENSOR INSTALL 3IN DBL.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
3	69,71 R	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		STRUCTURAL FRONT PANEL.
		RISER SENSOR INSTALL 3IN DBL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
4	84, 85	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 102.00" LONG 304 SS VERTICAL.
		RISER SENSOR INSTALL 3IN DBL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.

PERFORATED SUPPLY PLENUM(S)

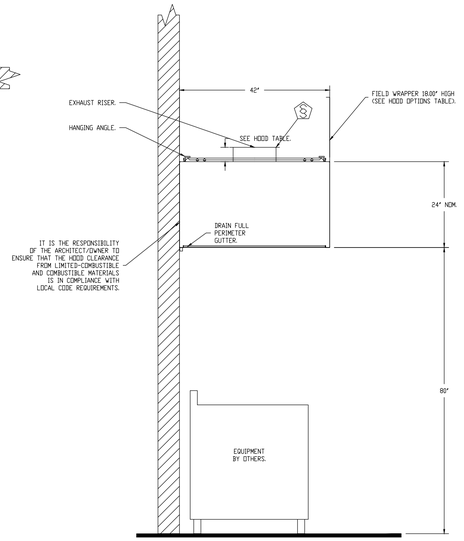
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
2	69,71 L	Front	126"	18"	6"	MUA	12"	24"		666	0.197"
						MUA	12"	24"		666	0.197"
						MUA	12"	24"		666	0.197"
3	69,71 R	Front	119"	18"	6"	MUA	12"	24"		648	0.187"
						MUA	12"	24"		648	0.187"
						MUA	12"	24"		648	0.187"
4	84, 85	Front	102"	18"	6"	MUA	12"	24"		625	0.175"
						MUA	12"	24"		625	0.175"

FIRE SYSTEM INFORMATION – JOB#4965380

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	LOCATION ON HOOD
1	74	CAS ELECTRIC WET CHEMICAL	4.0/4.0/4.0/4.0	20	FIRE CABINET LEFT	LEFT, HOOD 2
2	87	CAS ELECTRIC WET CHEMICAL	4.0	6	FIRE CABINET LEFT	LEFT, HOOD 4



PLAN VIEW – HOOD #1 (8)
7' 0.00" LONG 4224VHB-G



SECTION VIEW – MODEL 4224VHB-G
HOOD – #1 (8)

ETL LISTING DESCRIPTION BLOCK
THE CAPTIVE AIRE MODEL
ND-2 HAS BEEN E.T.L.
TESTED, LISTED, AND
APPROVED TO EXHAUST
A MINIMUM OF 200 CFM PER
LINEAR FOOT OVER 600
DEGREE COOKING EQUIPMENT

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

IMC 2018
SECTIONS 506, 507, & 508

FOR QUESTIONS, CONTACT
SCOTT ADAMS OR BILLY GASTON
N. NJ & S. NY REGIONAL OFFICE
PHONE: (201) 669-4982, (887) 668-4982
REG69@CAPTIVEAIRE.COM

VERIFY CEILING HEIGHT
___' ___"
Height required to verify hood will fit and to size the enclosure panels (wrappers)

ELECTRIC WET CHEMICAL (EWC) SPECIFICATION

THE CORE ELECTRIC WET CHEMICAL (EWC) FIRE SUPPRESSION SYSTEM IS A HYBRID FIRE SUPPRESSION SYSTEM FOR USE IN COMMERCIAL KITCHENS.

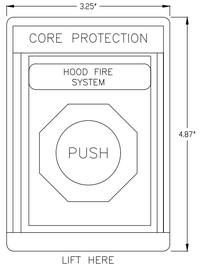
THE CORE EWC MICROPROCESSOR-BASED CONTROL BOARD, PCBCORE BOARD, IS ETL LISTED UNDER REPORT NUMBER 10119641 9NYM-001 TO THE UL STANDARD 864 AND CAN/ULC-S527-11. THE COREPCB IS DESIGNED TO CONTROL A 24VDC-BASED, LISTED UL 300 WET CHEMICAL RESTAURANT FIRE SUPPRESSION SYSTEM. THE COREPCB CONTROLS PROVIDE ALL NECESSARY MONITORING, TIMING AND SUPERVISION FUNCTIONS REQUIRED FOR THE RELIABLE OPERATION OF THE WET CHEMICAL FIRE SUPPRESSION SYSTEM. ALL DEVICES THAT ARE CRITICAL FOR PROPER OPERATION ARE SUPERVISED AND INCLUDE AN ELECTRIC THERMAL DETECTOR(S) AND MANUAL PULL STATION(S)/MANUAL ACTUATION DEVICE(S). THE COREPCB CONTROL BOARD ALSO SUPERVISES FAULTS WITHIN THE SYSTEM AND WILL ALERT THE USER OF SPECIFIC CONDITION.

THE SYSTEM IS CAPABLE OF AUTOMATIC DETECTION AND ACTIVATION AND/OR REMOTE MANUAL ACTIVATION. THE DETECTION PORTION OF THE FIRE SUPPRESSION SYSTEM ALLOWS FOR AUTOMATIC DETECTION BY MEANS OF AN ELECTRIC THERMAL DETECTOR(S) LOCATED IN THE HOOD DUCT CONNECTION(S). A PULL STATION/MANUAL ACTUATION DEVICE IS ALSO PROVIDED TO ALLOW FOR MANUAL ACTIVATION OF THE FIRE SYSTEM.

WITH THE ELECTRIC THERMAL DETECTION, A BATTERY BACKUP SYSTEM IS PROVIDED. THE BACKUP BATTERY SYSTEM POWERS THE COREPCB BOARD CONTROLS INCLUDING THE AUTOMATIC DETECTION, PULL STATION/MANUAL ACTUATION DEVICE CIRCUITS, AS WELL AS SUPERVISES THOSE DEVICES AND ANY AUXILIARY SUPERVISORY EQUIPMENT IN THE EVENT OF A LOSS OF POWER TO THE BUILDING.

UPON A FIRE CONDITION, THE ELECTRIC THERMAL DETECTOR CONTACTS WILL CLOSE AND SEND A SUPERVISED SIGNAL TO THE COREPCB BOARD. THE COREPCB BOARD THEN SENDS A SIGNAL TO THE 24VDC REGULATED RELEASE SOLENOID, WHICH WILL PUNCTURE A GAS CARTRIDGE PROPELLING THE WET CHEMICAL AGENT INTO THE DISTRIBUTION LINES TOWARDS THE DISCHARGE NOZZLES.

ELECTRIC WET CHEMICAL PULL STATION DETAIL

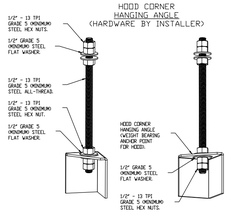


THE PUSH/PULL STATION IS A REMOTE MANUAL ACTIVATION DEVICE TO ACTIVATE THE FIRE SYSTEM. THIS REMOTE MANUAL ACTIVATION DEVICE (PUSH/PULL STATION) CONTAINS ONE SET OF NORMALLY OPEN CONTACTS, AND MOUNTS TO ANY STANDARD JUNCTION BOX. WHEN THE FRONT BUTTON IS PRESSED, THE ELECTRICAL CONNECTION TO THE FIRE SYSTEM IS COMPLETED, THUS ACTIVATING THE FIRE SYSTEM.

THE REMOTE MANUAL ACTIVATION (PUSH/PULL STATION) SHOULD BE MOUNTED AT A POINT OF EGRESS AND POSITIONED AT A HEIGHT DETERMINED BY THE AUTHORITY HAVING JURISDICTION (AHJ). THIS POSITION IS USUALLY 10 TO 20 FEET FROM THE HOOD AND 42 TO 48 INCHES ABOVE THE FLOOR. TO RESET, TWIST THE PUSH-BUTTON CLOCKWISE UNTIL THE INTERNAL LATCH IS RELEASED.

THE CLEAR PROTECTIVE COVER MUST BE INSTALLED TO PROTECT THE DEVICE FROM ACCIDENTAL ACTIVATIONS. THE COVER IS PROVIDED AS PART OF THE MANUAL ACTIVATION DEVICE.

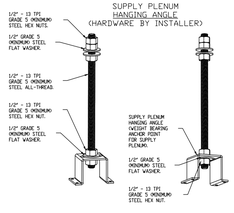
HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHERS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM
HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHERS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

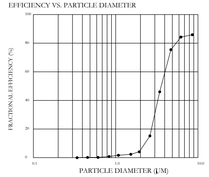
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

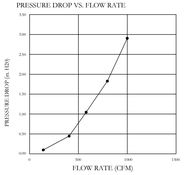
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

Date	4/2/21
Checked	RRA
Drawn	BJF

MATTHEW T. MILNAMOW, R.A.
Title REGISTERED ARCHITECT License No. 32407

Revisions:

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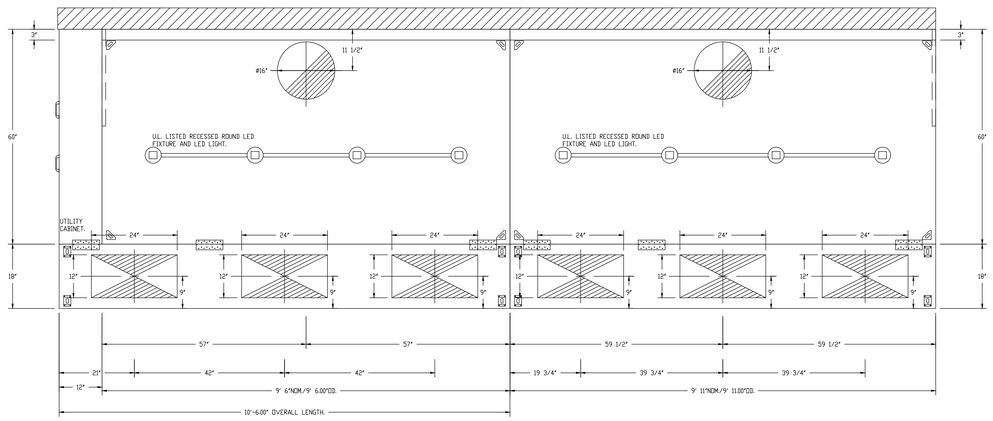
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

FOOD SERVICE EXHAUST HOOD DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

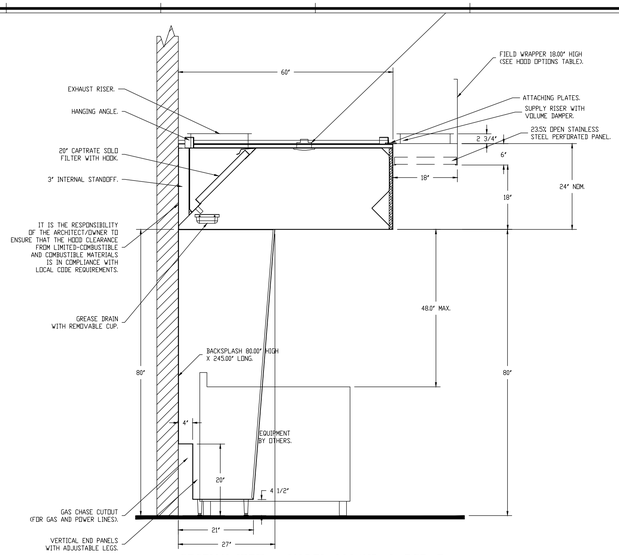
Job No. 4.1552.01
File No. 4155201A701

FS1.02

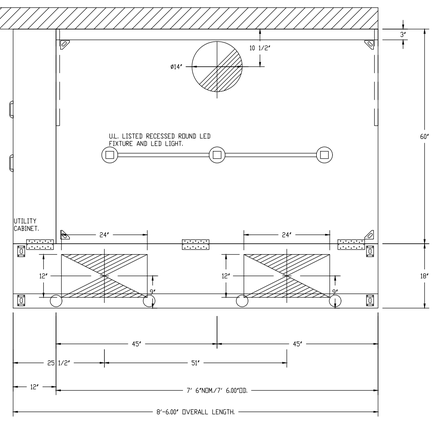


PLAN VIEW – HOOD #2 (69,71 L)
9' 6.00" LONG 6024ND-2-PSP-F

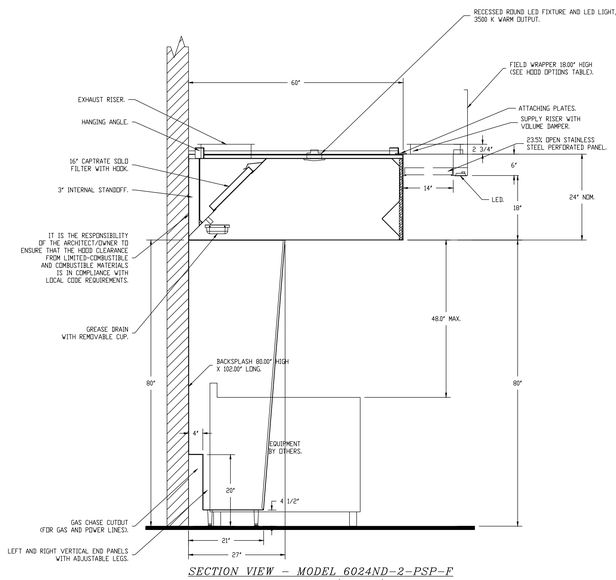
PLAN VIEW – HOOD #3 (69,71 R)
9' 11.00" LONG 6024ND-2-PSP-F



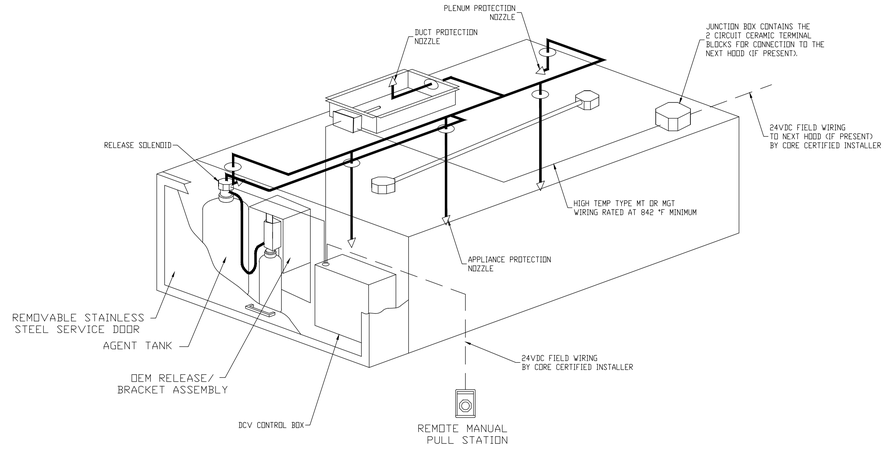
SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #2 (69,71 L)
HOOD – #3 (69,71 R)



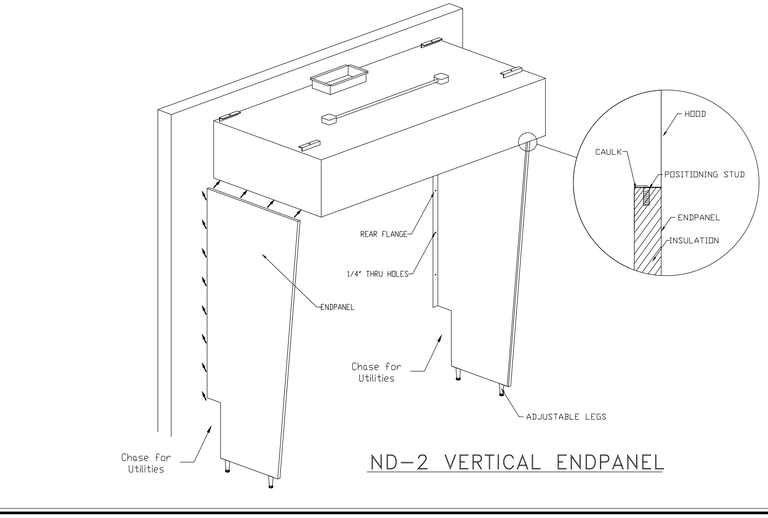
PLAN VIEW – HOOD #4 (84, 85)
7' 6.00" LONG 6024ND-2-PSP-F



SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #4 (84, 85)



TYPICAL ELECTRIC WET CHEMICAL SYSTEM LAYOUT



ND-2 VERTICAL ENDPANEL

Date	4/2/21
Checked	RRA
Drawn	BJF

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FOOD SERVICE EXHAUST HOOD DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A701

FS1.03

ELECTRICAL PACKAGE – JOB#4965380

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1	73	DCV-1111	WALL MOUNT IN SS BOX	03 - UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	EXHAUST	3	5.000	208	15.0
					1 FAN		SUPPLY	3	3.000	208	8.7
2	86	DCV-1111	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	EXHAUST	3	1.000	208	3.8
				HOOD # 4	1 FAN		SUPPLY	3	1.000	208	3.8

FAN MOTOR INFORMATION TO BE DETERMINED. INVERTER DUTY 3-PHASE MOTORS REQUIRED. FANS TO BE RUN OFF VFD'S PROVIDED BY & LOCATED INSIDE HOOD CONTROL PACKAGE.

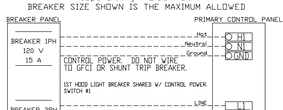
JOB NO 4965380 | MODEL NUMBER DCV-1111 | JOB NAME Aspire Brewery R1 | DRAWN BY | DATE 6/30/2021 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation/verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

BREAKER PANEL TO PRIMARY CONTROL PANEL

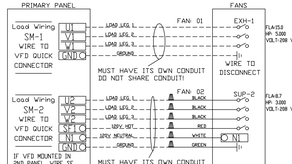
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



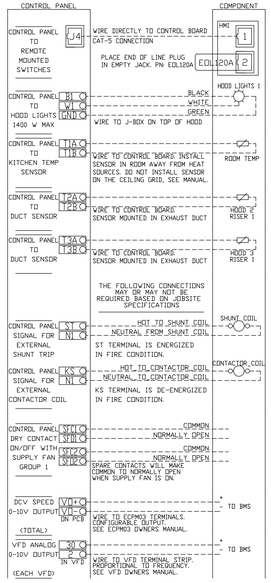
CONTROL PANEL TO FANS

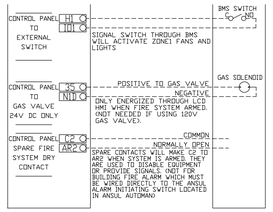
Responsibility: Electrician



CONTROL PANEL TO ACCESSORY ITEMS

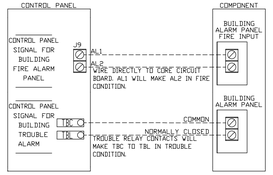
Responsibility: Electrician





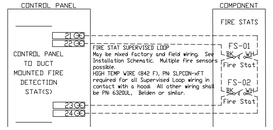
CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR



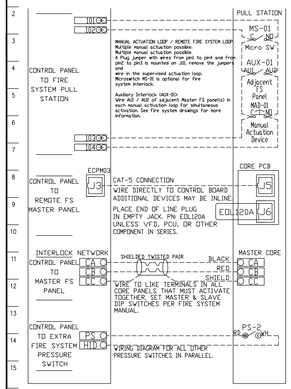
CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER



JOB NO 4965380 | MODEL NUMBER DCV-1111 | JOB NAME Aspire Brewery R1 | DRAWN BY | DATE 6/30/2021 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation/Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.



DEMAND CONTROL VENTILATION SYSTEM

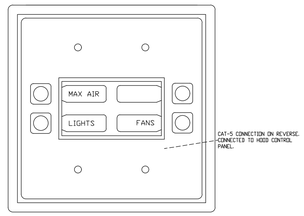
Controls shall be capable of reducing exhaust and supply airflow quantities by using a modulating speed control system. High and Low speeds shall be adjustable by variable frequency drives. A temperature switch in the exhaust duct shall control airflow set point. A MAX airflow override button shall be supplied with an adjustable timer.

Control shall be used in kitchen exhaust applications to reduce exhaust and supply air volumes while cooking appliances are idling.

The Demand Control Ventilation System complies with IMC 507.1.1 by interlocking with cooking appliances through means of a heat sensor to automatically activate exhaust fans during cooking operations.

Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.

HOOD CONTROL PACKAGE INTERFACE with LCD Screen LOCATED ON FACE OF HOOD CABINET



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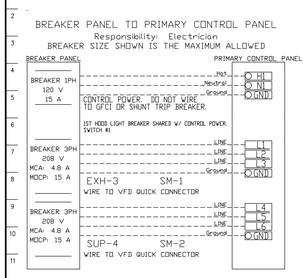
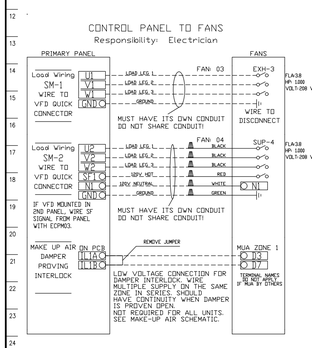
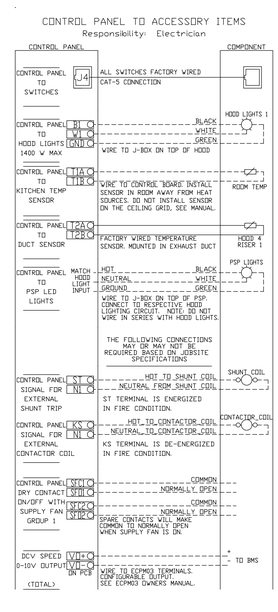
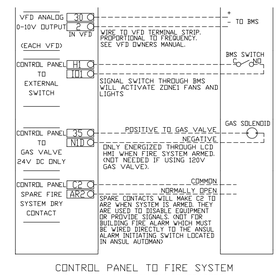


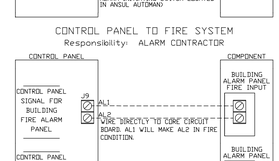






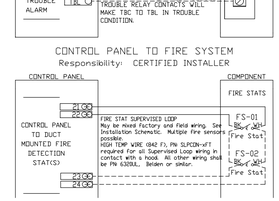
CONTROL PANEL TO FIRE SYSTEM

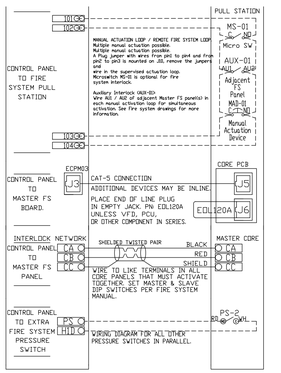
Responsibility: ALARM CONTRACTOR



CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER





Date 4/2/21 | Checked RRA | Drawn BJF

MATTHEW T. MILNAMOW, R.A. — License No. 32407 — Title REGISTERED ARCHITECT

Revisions:

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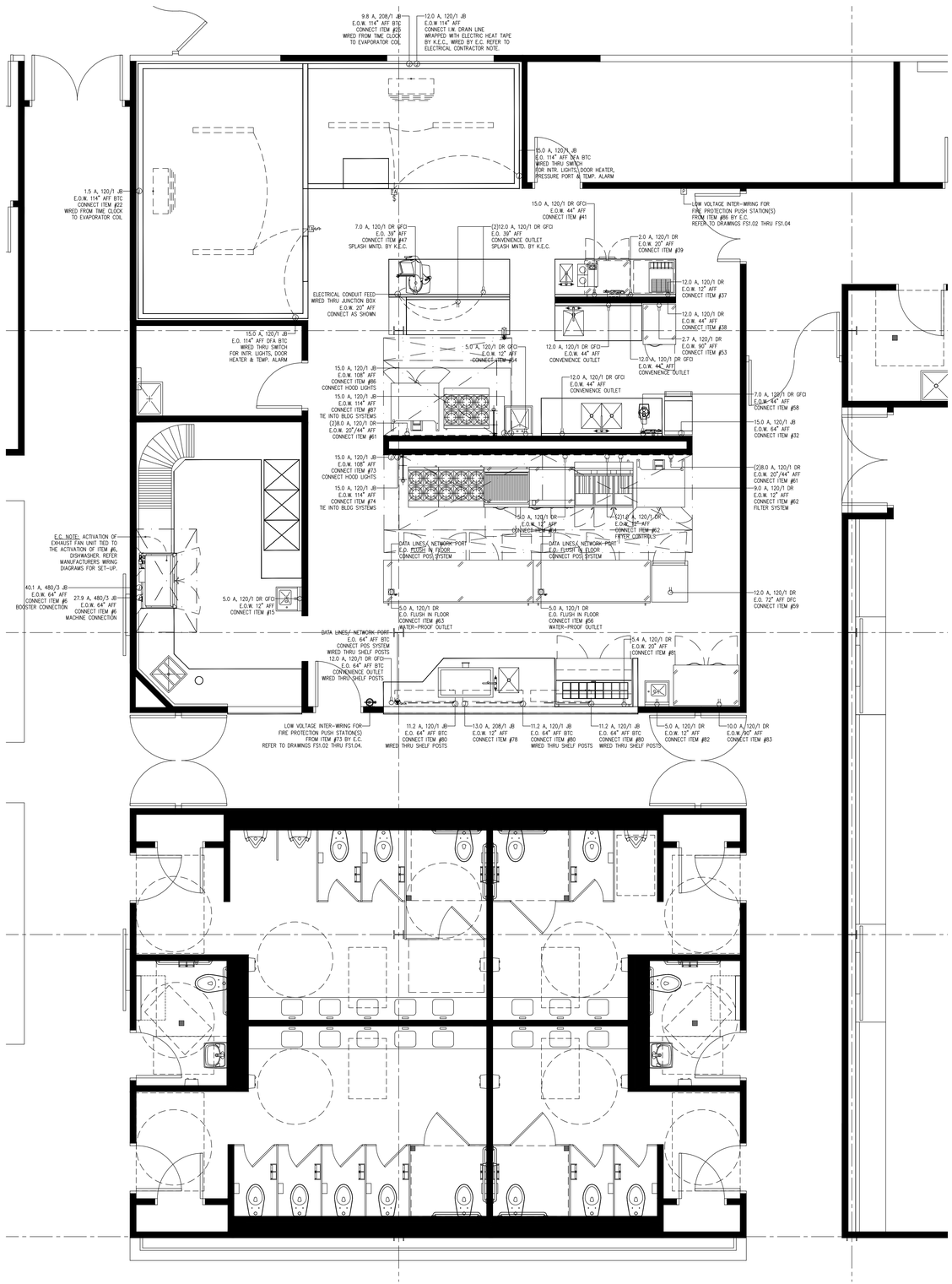
FOOD SERVICE EXHAUST HOOD DIAGRAMS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

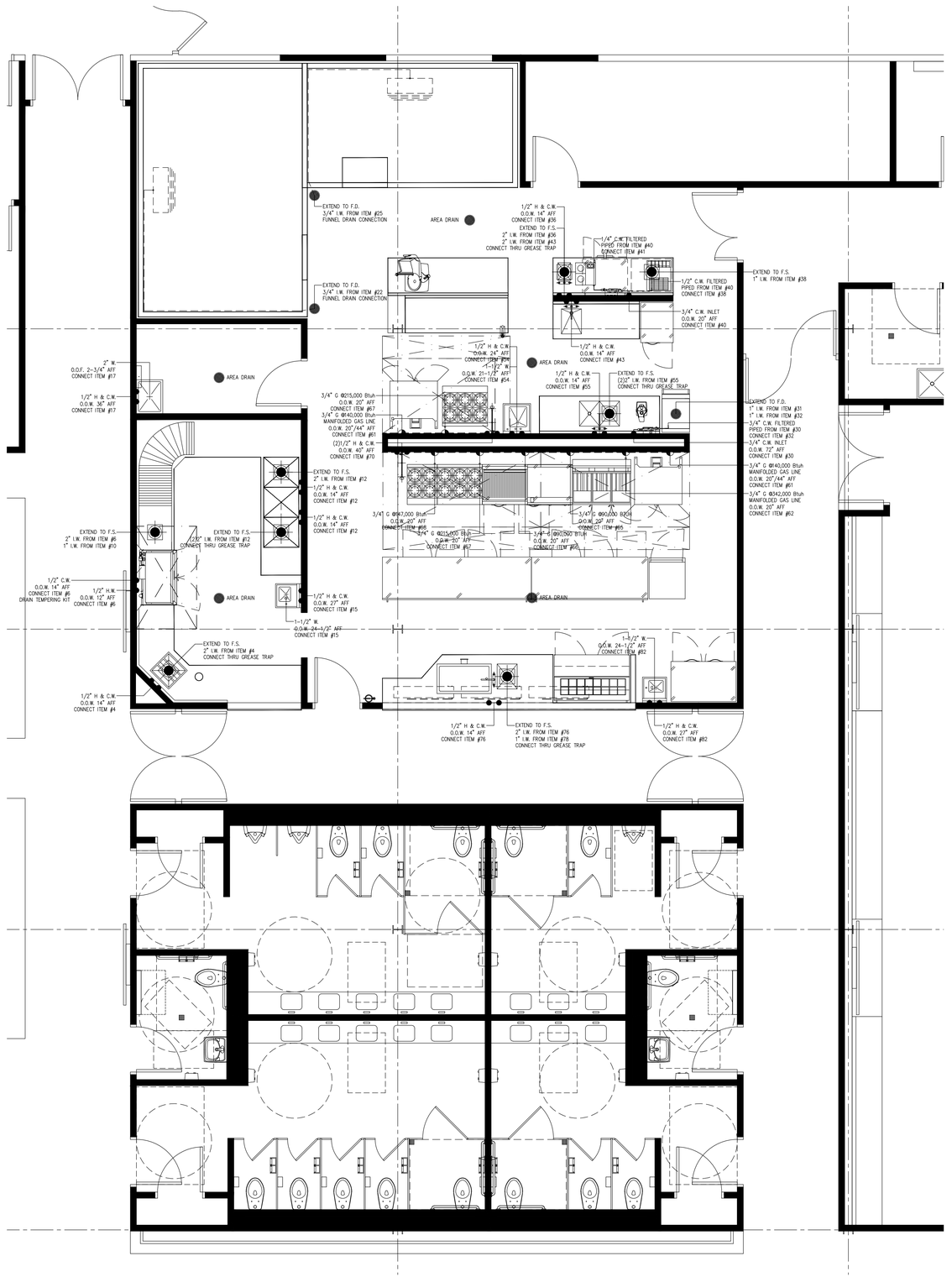
Job No. 4.1552.01

File No. 4155201A701

FS1.04



ELECTRICAL CONNECTIONS PLAN
SCALE: 1/4"=1'-0"



PLUMBING CONNECTIONS PLAN
SCALE: 1/4"=1'-0"

Date	4/2/21
Checked	RRA
Drawn	BJF

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Title REGISTERED ARCHITECT License No. 32407

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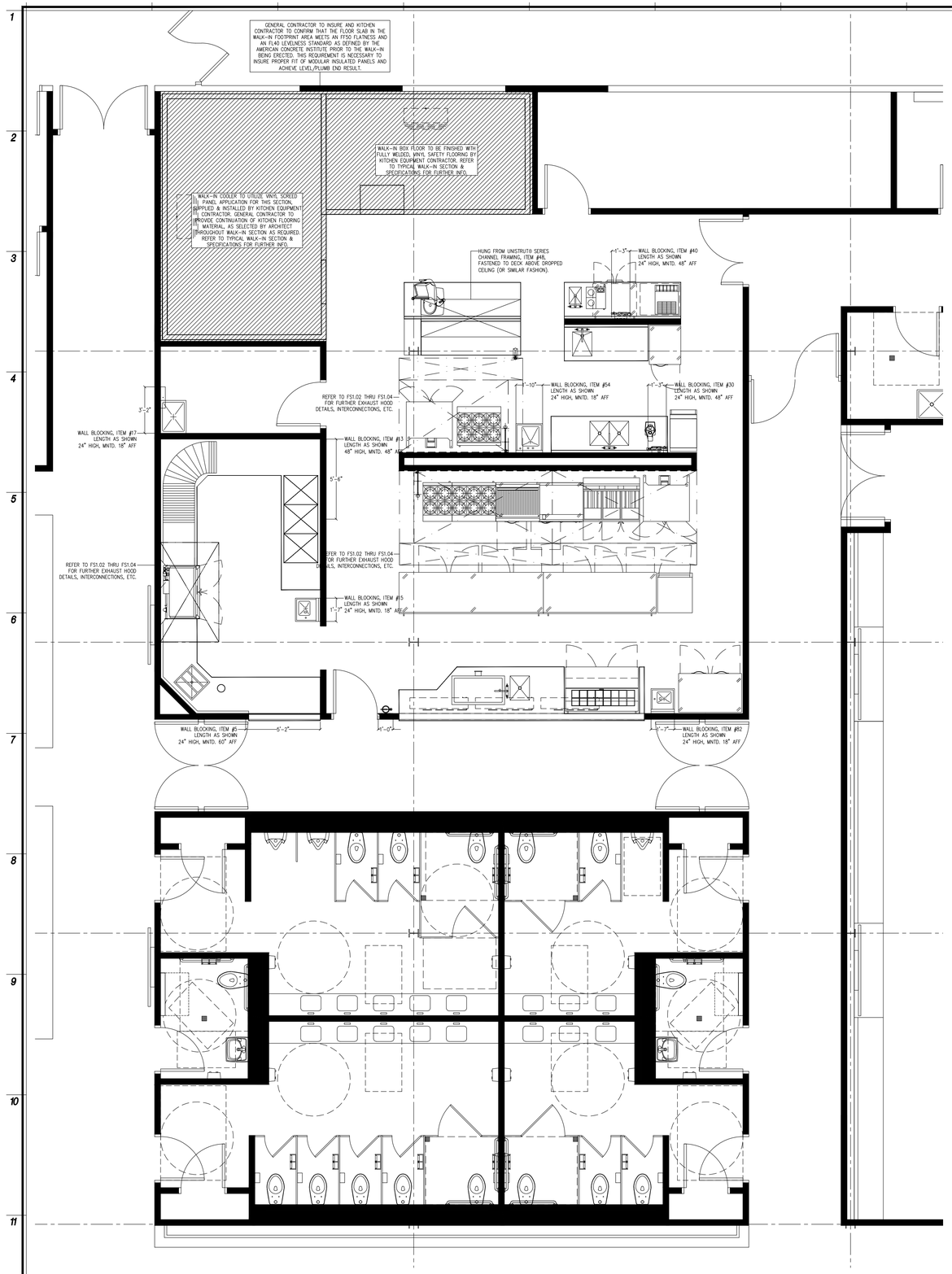
FOOD SERVICE UTILITY CONNECTIONS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 41552O1A701

FS1.05



SPECIAL CONDITIONS PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND	
JB	JUNCTION BOX
DR	DUPLEX RECEPTACLE
SR	SIMPLEX RECEPTACLE
E.O.W.	ELECTRICAL OUT OF WALL
E.O.F.	ELECTRICAL OUT OF FLOOR
D.F.A.	DOWN FROM ABOVE
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
A	AMPS
HP	HORSEPOWER
kW	KILOWATT
E.C.	ELECTRICAL CONTRACTOR

ELECTRICAL NOTES:

1) ALL WALL OUTLETS ARE FROM AFF TO BOTTOM OF BOX.

2) E.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

PLUMBING LEGEND	
H.W.	HOT WATER
C.W.	COLD WATER
W	DIRECT WASTE
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
G	GAS
O.O.W.	OUT OF WALL
O.O.F.	OUT OF FLOOR
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
P.C.	PLUMBING CONTRACTOR

PLUMBING NOTES:

1) P.C. TO PROVIDE HUB DRAINS FOR ALL INDIRECT WASTE LINES AND RETAIN AIR GAPS AS REQUIRED.

2) P.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

ELECTRICAL CONTRACTOR (E.C.) NOTE:
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL FUSED DISCONNECT SWITCH WHERE REQUIRED, AS WELL AS CONDUIT AND WIRING FROM SAME TO TERMINALS IN CONDENSING UNITS CONNECTION POINT.

EXTEND (5) WIRES & GROUND THRU TIME CLOCK TO FREEZER UNIT EVAPORATOR COIL (FANS, DEFROST & CONSTANT "HOT" FOR DRAIN LINE HEATER). IF APPLICABLE, SIMILAR APPLIES TO COOLER UNIT.

COMPRESSOR UNITS MNTD. ON BLDG. ROOF.
REFER TO ARCH./ENG. DWGS. FOR LOCATION.
COMPRESSOR UNITS AS SHOWN TO BE MOUNTED ON APPROVED DUNNAGE/CURBING PROVIDED BY OWNER, INSTALLED BY G.C. ARCHITECT TO SPECIFY CURBING DETAILS IF REQUIRED.

ITEM #22
208/3 JB
E.O. 6" ABOVE ROOF

ITEM #25
208/3 JB
E.O. 6" ABOVE ROOF

*PLEASE NOTE THAT REFRIGERATION SIZING & ITS REFRIGERANT LINE RUNS ARE BASED ON A MAXIMUM HORIZONTAL LINE RUN OF 65'-0" (65 FEET) AND A VERTICAL LINE RUN OF 35'-0" (35 FEET).

Date	4/2/21
Checked	RRA
Drawn	BJF

MATTHEW T. MILNAMOW, R.A.
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Revisions:

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FOOD SERVICE SPECIAL CONDITIONS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 4155201A701

FS1.06

GENERAL CONTRACTOR NOTES:

1. UNLESS OTHERWISE INDICATED, KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) IS A SUBCONTRACTOR TO THE GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR TO COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH KITCHEN EQUIPMENT CONTRACTOR, ARCHITECT AND OWNER.
3. GENERAL CONTRACTOR TO VERIFY WITH ARCHITECT AND STRUCTURAL ENGINEER THAT THE ROOF WILL SUPPORT THE CONDENSING UNITS IN THE FINAL LOCATIONS.
4. REFRIGERATION SIZING & ITS REFRIGERANT LINE RUNS ARE BASED ON A MAXIMUM HORIZONTAL LINE RUN OF 65'–0" (65 FEET) AND A VERTICAL LINE RUN OF 35'–0" (35 FEET).
5. IF THE CONDENSING UNITS ARE LOCATED MORE THAN 100'–0" AWAY FROM THE WALK–IN BOX, GENERAL CONTRACTOR TO NOTIFY KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION OF ROOF CURBS, PITCH POCKETS AND CONDENSING UNITS.
6. IF WALLS ARE FIRE RATED, GENERAL CONTRACTOR TO USE METAL STUDS FOR WALL BLOCKING IN PLACE OF PLYWOOD.

GENERAL MECHANICAL NOTES:

1. ROUGH–INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE FOR EQUIPMENT BEING SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR ONLY. ADDITIONAL ROUGH–INS SHOWN OR NOT SHOWN ON THESE DRAWINGS FOR EQUIPMENT BEING RELOCATED, RE–USED OR SUPPLIED BY OTHERS WILL HAVE TO BE VERIFIED BY GENERAL CONTRACTOR PRIOR TO ROUGH–INS BEING INSTALLED.
2. THE MECHANICAL PLANS, IF APPLICABLE, ARE PREPARED AS AN ACCOMMODATION AND GUIDE ONLY, TO INDICATE MECHANICAL REQUIREMENTS NECESSARY TO OPERATE THE EQUIPMENT. DEVIATIONS FROM THE MECHANICAL WORK SHOWN ON THESE PLANS AND EXECUTION OF SUCH WORK IS WITHOUT RESPONSIBILITY OF RAYMOND/ RAYMOND ASSOCIATES. DATA ON THIS SHEET IS TO BE REVIEWED BY OWNER AND/OR ARCHITECT AND IS TO BE INCORPORATED INTO THE BUILDING MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES AT THE SITE.
3. OWNER AND/OR ARCHITECT IS TO SUBMIT THIS PLAN SET TO LOCAL HEALTH DEPARTMENT FOR APPROVAL UNLESS OTHERWISE SPECIFIED.
4. ALL EQUIPMENT DESIGNED AND SPECIFIED, PER THIS SET OF PLANS, BY RAYMOND/ RAYMOND ASSOCIATES, HAS THE UNDERWRITERS' LABORATORIES AND NATIONAL SANITATION FOUNDATION SEALS OF APPROVAL. AND IS TO BE FURNISHED AS SUCH BY THE KITCHEN EQUIPMENT CONTRACTOR.
5. KITCHEN EQUIPMENT CONTRACTOR TO SET IN PLACE, EQUIPMENT AT THE SITE IN ACCORDANCE WITH THESE PLANS AND TERMS OF CONTRACT WITH OWNER.
6. ALL PLUMBING, ELECTRICAL AND VENTILATION WORK, INCLUDING "ROUGH–INS, INTERCONNECTIONS BETWEEN COUNTERS, CONTROLS, SWITCHES, ETC..." AND "FINAL CONNECTIONS" TO THE EQUIPMENT, IS TO BE PERFORMED BY APPROPRIATE TRADES. IT IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
7. TO EXPEDITE AND INSURE PROPER INSTALLATION OF COOKING EQUIPMENT, IT IS RECOMMENDED THAT "ALL FINAL CONNECTIONS" ARE TO BE PERFORMED BY APPROPRIATE TRADES AT THE SAME TIME THE KITCHEN EQUIPMENT CONTRACTOR IS SETTING THE EQUIPMENT IN PLACE.

PLUMBING CONTRACTOR NOTES:

1. PLUMBING ROUGH–INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE "POINT OF CONNECTION" OR "CONNECTED LOAD" DRAWINGS ONLY. REFER TO ENGINEERING DRAWINGS FOR FURTHER DETAILS & INFORMATION.
2. FURNISH & INSTALL SHUT–OFF VALVES ON THE INLET SIDE OF THE COLD & HOT WATER LINES SERVING EACH PIECE OF EQUIPMENT.
3. IF WATER PRESSURE AT THE EQUIPMENT AREA EXCEEDS 50 POUNDS FLOW PRESSURE OWNER OR HIS CONTRACTOR MUST INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT WATER & COLD WATER SUPPLY LINES SERVICING THE AREA.
4. FLOW PRESSURE TO DISHWASHER (OR ITS AUXILIARY HOT WATER BOOSTER HEATER IF ONE IS USED) MUST NOT EXCEED 20 POUNDS.
5. OWNER OR THEIR CONTRACTOR MUST PROVIDE AN ADEQUATE SUPPLY OF 110° F HOT WATER, MINIMUM, TO ALL COOKING EQUIPMENT, DISHWASHER, BOOSTER HEATER, WORK SINKS, HAND SINKS, ETC.
6. IF WATER EXCEEDS TEN GRAINS OF HARDNESS, EXCESSIVE LIME, IRON, ALKALINE, ETC... CONDITIONS ARE PRESENT, PROPER WATER CONDITIONING EQUIPMENT MUST BE INSTALLED ON THE MAIN WATER LINES SERVING THIS FOOD SERVICE FACILITY. ALL WATER CONDITIONING EQUIPMENT SHALL BE FURNISHED, INSTALLED & MAINTAINED BY OTHERS.
7. USING PVC PIPING FOR DRAIN LINES FROM EQUIPMENT THAT DISCHARGES HOT WATER SUCH AS STEAMERS & DISHWASHERS MAY CAUSE THE P.V.C. PIPING TO SOFTEN OR CRACK. IT IS RECOMMENDED THAT METAL (COPPER OR GALVANIZED) PIPING BE USED.
8. CHECK WITH LOCAL CODES TO DETERMINE WHAT EQUIPMENT IS TO BE PIPED THROUGH A GREASE TRAP. EQUIPMENT NOTED ON FOOD SERVICE CONTRACT DRAWINGS ARE REQUIRED/ RECOMMENDED AND SHOULD BE VERIFIED FOR COMPLIANCE.
9. FURNISH & INSTALL GREASE TRAP(S) AS REQUIRED OR AS INDICATED ON ENGINEERING CONTRACT DOCUMENTS.
10. FURNISH & INSTALL MECHANICAL GAS SHUT–OFF VALVE IN GAS MAIN FEEDING ALL COOKING EQUIPMENT PRIOR TO ANY TEES OR GAS LOOP FEEDING COOKING EQUIPMENT. MECHANICAL SHUT–OFF VALVE IS RECOMMENDED TO BE INSTALLED IN ACCESSIBLE CEILING SPACE OR BELOW FLOOR WITH ACCESS TO VALVE.
11. FURNISH & INSTALL FLOOR DRAINS AND/OR FLOOR SINKS AS PER LOCAL CODE HAVING JURISDICTION AND OWNERS REQUEST.
12. REVIEW ALL CATALOG DATA PROVIDED AS PART OF THE FOOD SERVICE CONTRACT DOCUMENTS TO ESTABLISH THE NECESSARY GAS PRESSURE TO THE KITCHEN EQUIPMENT.
13. IF GAS PRESSURE ON MAIN LINE FEEDING KITCHEN EQUIPMENT EXCEEDS 14" W.C. FURNISH & INSTALL GAS PRESSURE REDUCING VALVE ON MAIN GAS LINE, SO THAT THE PRESSURE IS EQUAL TO 14" W.C. EXCESSIVE GAS PRESSURE TO THE EQUIPMENT CAN DAMAGE THE EQUIPMENT AND CAUSE PERSONAL INJURY.
14. FURNISH & INSTALL ALL WATER LINES, DRAIN LINES, GAS LINES, MANIFOLDS, SHUT–OFF/GATE VALVES, PRESSURE REDUCING VALVES, BACKFLOW PREVENTERS, VACUUM BREAKERS, ETC. OR ANY OTHER PLUMBING DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL. THIS IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
15. EXTEND ALL WATER LINES, DRAIN LINES & ASSOCIATED VALVES FOR DROP–IN OR BUILT–IN EQUIPMENT WITHIN COUNTERS TO WORKING SIDE FOR EASE OF ACCESSIBILITY & USE.
16. FURNISH & INSTALL INTERCONNECTIONS BETWEEN BOOSTER HEATER & DISHWASHER AS WELL AS GENERATOR & STEAM EQUIPMENT.
17. VERIFY, FURNISH & INSTALL REQUIRED PLUMBING ROUGH–INS FOR ALL EQUIPMENT BEING SUPPLIED.

ELECTRICAL CONTRACTOR NOTES:

1. ELECTRICAL ROUGH–INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE "POINT OF CONNECTION" OR "CONNECTED LOAD" DRAWINGS ONLY. REFER TO ENGINEERING DRAWINGS FOR FURTHER DETAILS & INFORMATION.
2. FURNISH & INSTALL REQUIRED CONVENIENCE RECEPTACLES AS PER LOCAL CODE HAVING JURISDICTION AND PER OWNERS REQUESTS/ NEEDS.
3. VERIFY IF CONVENIENCE RECEPTACLES ARE TO BE GFCI PER LOCAL CODE HAVING JURISDICTION.
4. MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
5. FLOOR MOUNTED DEVICES ARE TO BE MOUNTED WITH A 5 3/4" MAXIMUM HEIGHT TO TOP OF BOX.
6. FURNISH & INSTALL ALL RECEPTACLES, J–BOXES, SWITCHES, INTER–WIRING, DISCONNECT SWITCHES, MOTOR STARTERS AND/OR TRANSFORMERS OR ANY OTHER ELECTRICAL DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL. THIS IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
7. ALL POWER CONNECTION POINTS UNDER EXHAUST HOODS ARE TO BE SHUT DOWN UPON FIRE SUPPRESSION SYSTEM ACTIVATION PER NFPA 96. FURNISH & INSTALL SHUNT–TRIP BREAKERS FOR THESE CIRCUITS.
8. VERIFY, FURNISH AND INSTALL REQUIRED ELECTRICAL ROUGH–INS FOR ALL EQUIPMENT BEING SUPPLIED.

Date	4/2/21
Checked	RRA
Drawn	BJF

MATTHEW T. MILNAMOW, R.A.
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Revisions:

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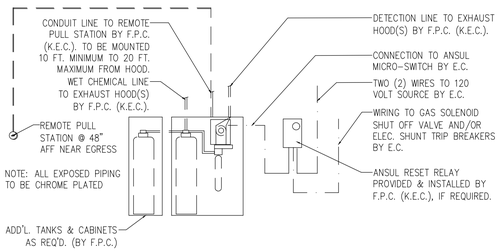
FOOD SERVICE TYPICAL NOTES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01
File No. 41552O1A701

FS1.07

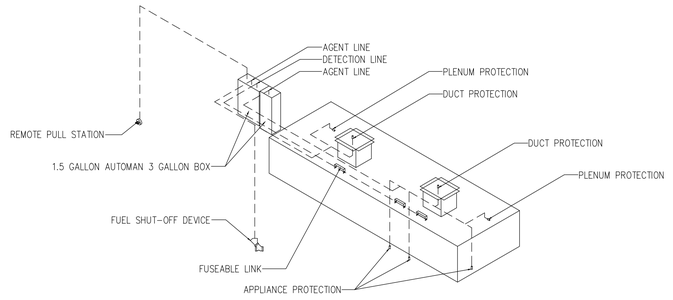


- F.P.C. (FIRE PROTECTION CONTRACTOR) IS A SUB FOR THE K.E.C. (KITCHEN EQUIPMENT CONTRACTOR).
- GAS SOLENOID VALVE PROVIDED BY F.P.C. (K.E.C.). ELECTRICAL SHUNT TRIP BREAKERS PROVIDED BY E.C.
- IN ACCORDANCE WITH NFPA 17A & NFPA 96.
- ANSUL MODEL UL-300 (R-102)

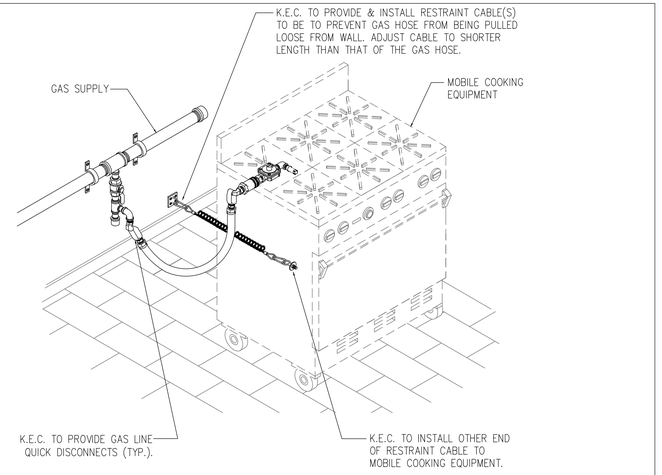
FIRE PROTECTION SYSTEM SEQUENCE OF OPERATION

- SYSTEM IS ENGAGED BY FUSIBLE LINK OR MANUAL OPERATION OF REMOTE PULL STATION
- SYSTEM DISCHARGES CHEMICAL THROUGHOUT INSTALLED AREA
- ALL SHARED DUCTWORK TO THE HAZARD AREA MUST DISCHARGE SIMULTANEOUSLY ALONG WITH ANY POLLUTION CONTROL DEVICE PROTECTION
- ALL GAS SUPPLY BENEATH THE HOOD AREA SHALL BE SHUT OFF
- ALL ELECTRIC SUPPLY BENEATH THE HOOD AREA SHALL BE SHUT OFF- EXCEPTION: EXHAUST FAN ONLY SHALL REMAIN OPERATIONAL
- FIRE ALARM AND/OR BUILDING MONITORING SYSTEM SHALL BE NOTIFIED
- AFTER AUTOMATIC SHUTDOWN, MANUAL OR AUTOMATIC RESET IS REQUIRED

TYPICAL DETAIL | FIRE PROTECTION SYSTEM | SCALE: N.T.S.



TYPICAL DETAIL | FIRE PROTECTION SYSTEM INSTALL | SCALE: N.T.S.



TYPICAL DETAIL | QUICK DISCONNECT GAS ASSEMBLY | SCALE: N.T.S.

SPLASH MOUNTED

FLOOR MOUNTED

TYPICAL DETAIL | ELECTRICAL OUTLETS | SCALE: N.T.S.

TYPICAL DETAIL | SECTION THRU WALK-IN WITH RAMP | SCALE: 3/4"=1'-0"

SLAM BRACE
COMPARTMENT WITH SCREED

TYPICAL DETAIL | WALK-IN PANEL SCREED APPLICATION | SCALE: N.T.S.

Date	4/2/21
Checked	RRA
Drawn	BJF

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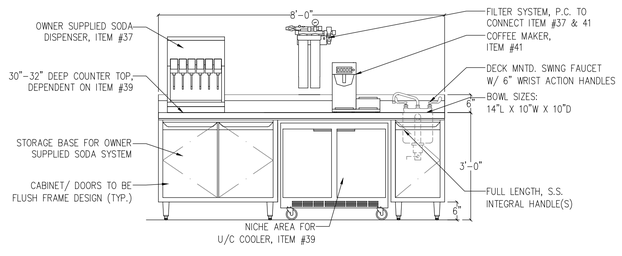
FOOD SERVICE TYPICAL DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

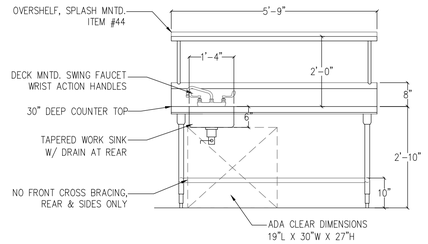
File No. 4155201A701

FS1.08



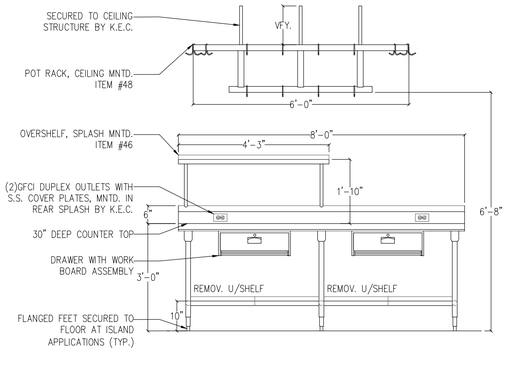
ELEVATION OF ITEM #36

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



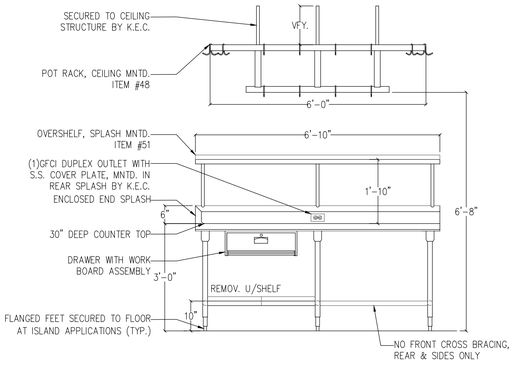
ELEVATION OF ITEM #43

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



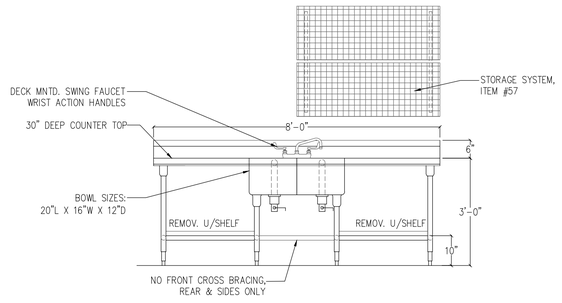
ELEVATION OF ITEM #45

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



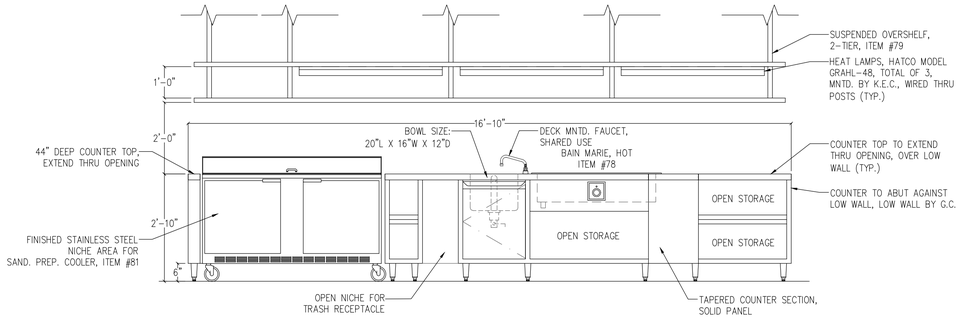
ELEVATION OF ITEM #50

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



ELEVATION OF ITEM #55

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



ELEVATION OF ITEM #76

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

Date	4/2/21
Checked	RRA
Drawn	BJF

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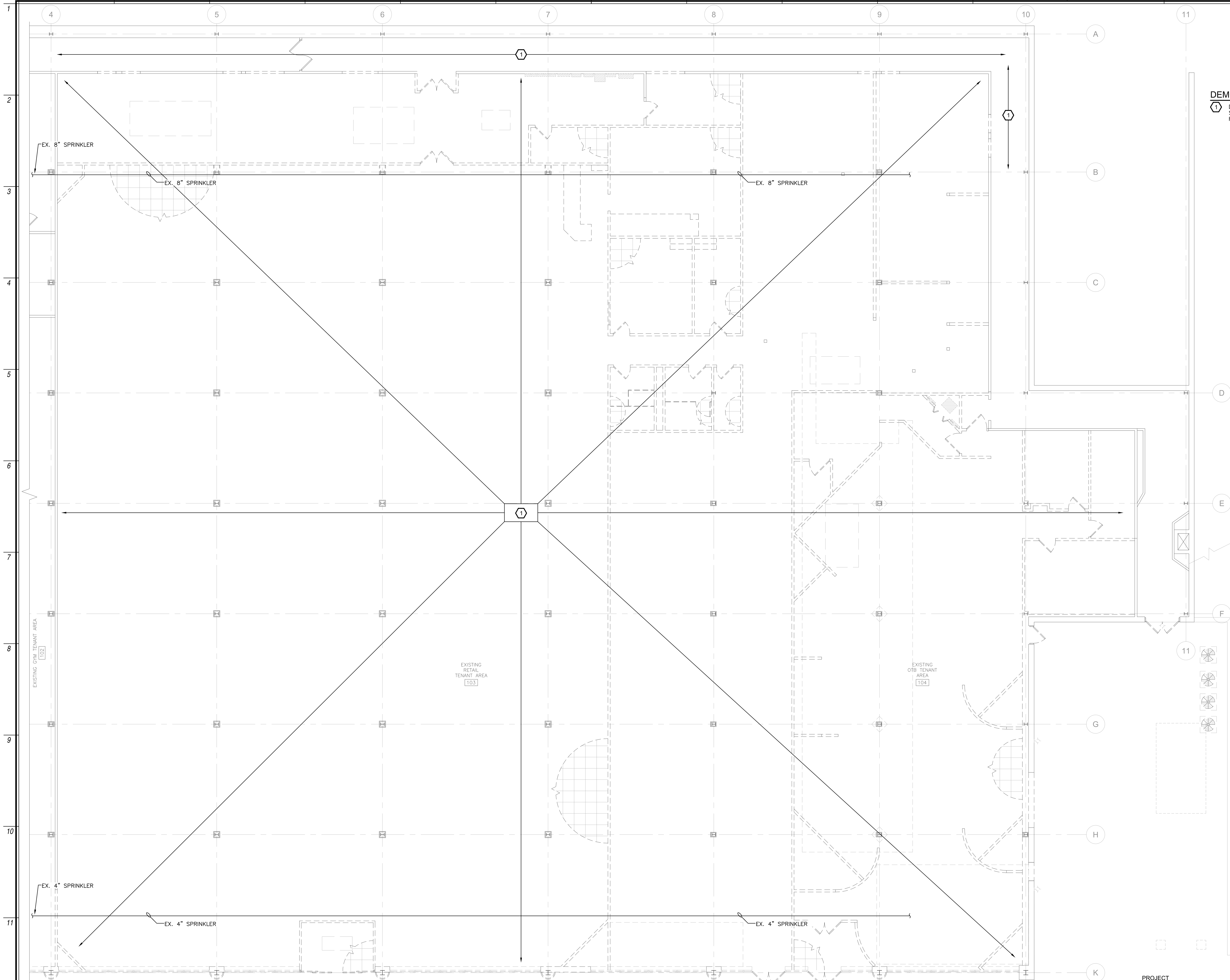
FOOD SERVICE ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
TOWN OF WALLKILL, NY 10941

Job No. 4.1552.01

File No. 4155201A701

FS1.09

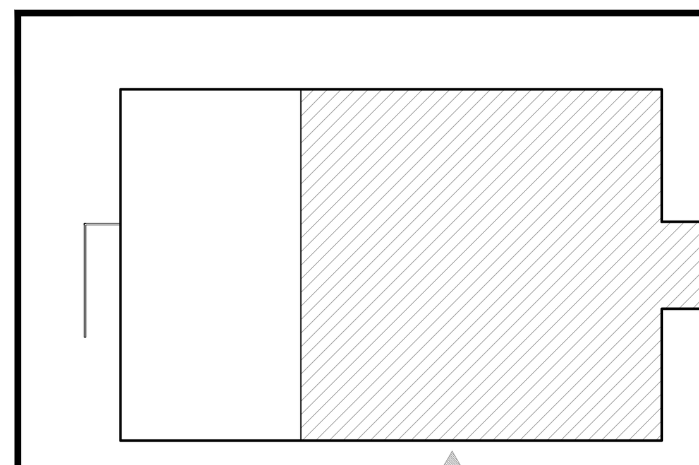


DEMOLTION KEYED NOTES

1. DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING BACK TO MAINS, SUPPORTS, AND ETC. WITHIN THIS AREA AS REQUIRED FOR RENOVATION.

FIRE PROTECTION: PARTIAL FIRST FLOOR DEMOLITION PLAN

1 / FP1.01 — SCALE: 1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

PROJECT NORTH

Date	10/15/21
Checked	SZ
Drawn	BH/DC/KC

SCOTT P. ZIEGLER
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Revisions:
1 PERMIT SET 10/15/21

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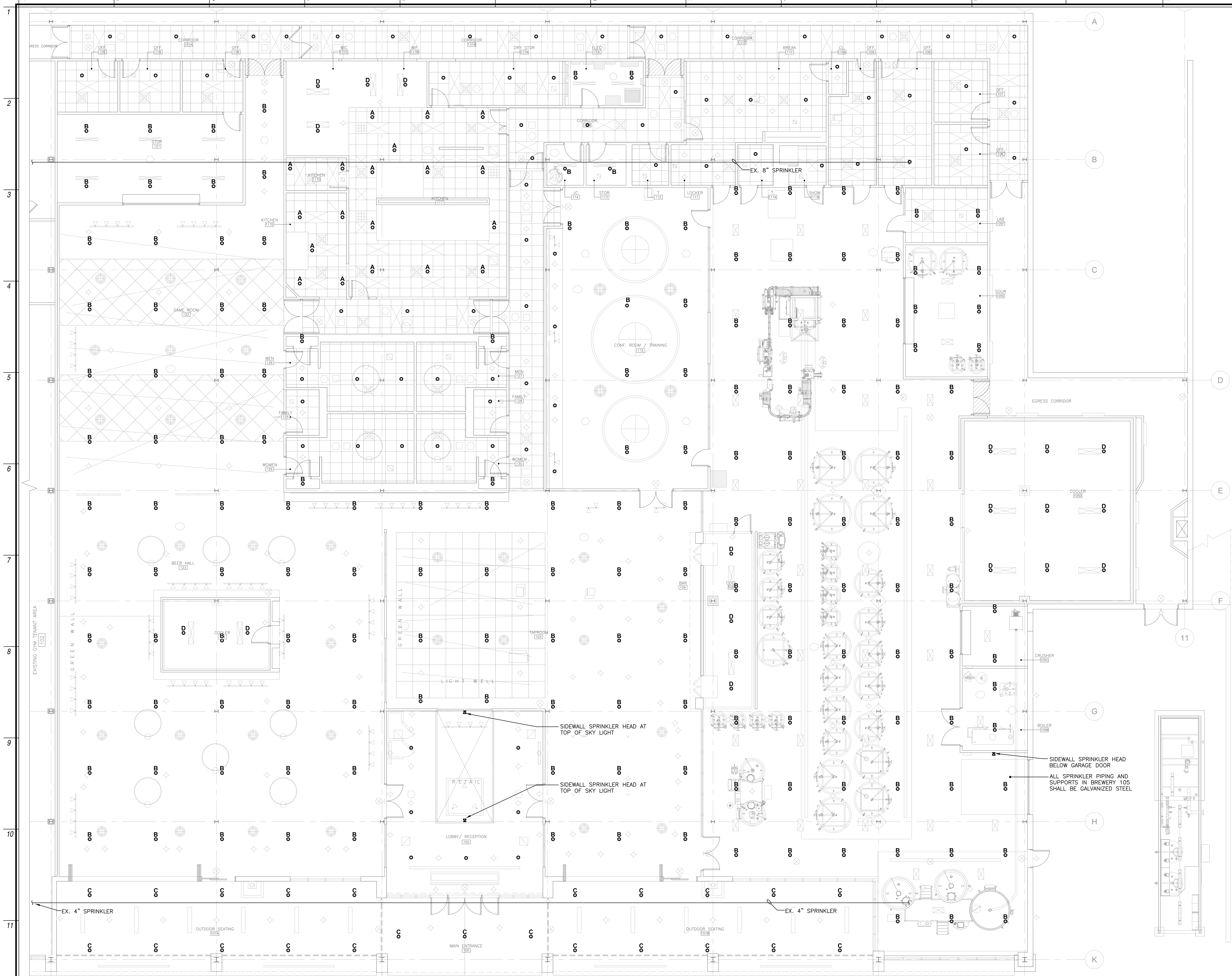
FIRE PROTECTION:
PARTIAL FIRST FLOOR DEMOLITION PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 FP101

FP1.01



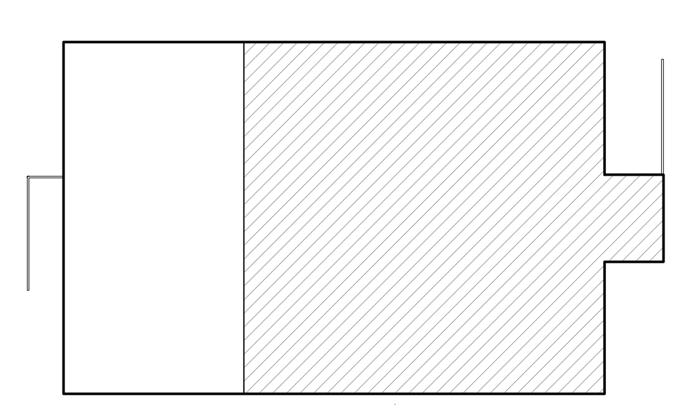
FIRE PROTECTION: PARTIAL FIRST FLOOR PLAN

1 FP2.01 SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

1. ALL SPRINKLER PIPING AND FITTINGS THROUGHOUT BREWERY SHALL BE GALVANIZED STEEL.



KEY PLAN

NOT TO SCALE

PROJECT NORTH

Date	10/15/21
Checked	SZ
Drawn	BH/DC/KC

SCOTT P. ZIEGLER

Title LICENSED PROFESSIONAL ENGINEER New York License No. 091035

Revisions:

1 PERMIT SET 10/15/21

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FIRE PROTECTION:
PARTIAL FIRST FLOOR PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

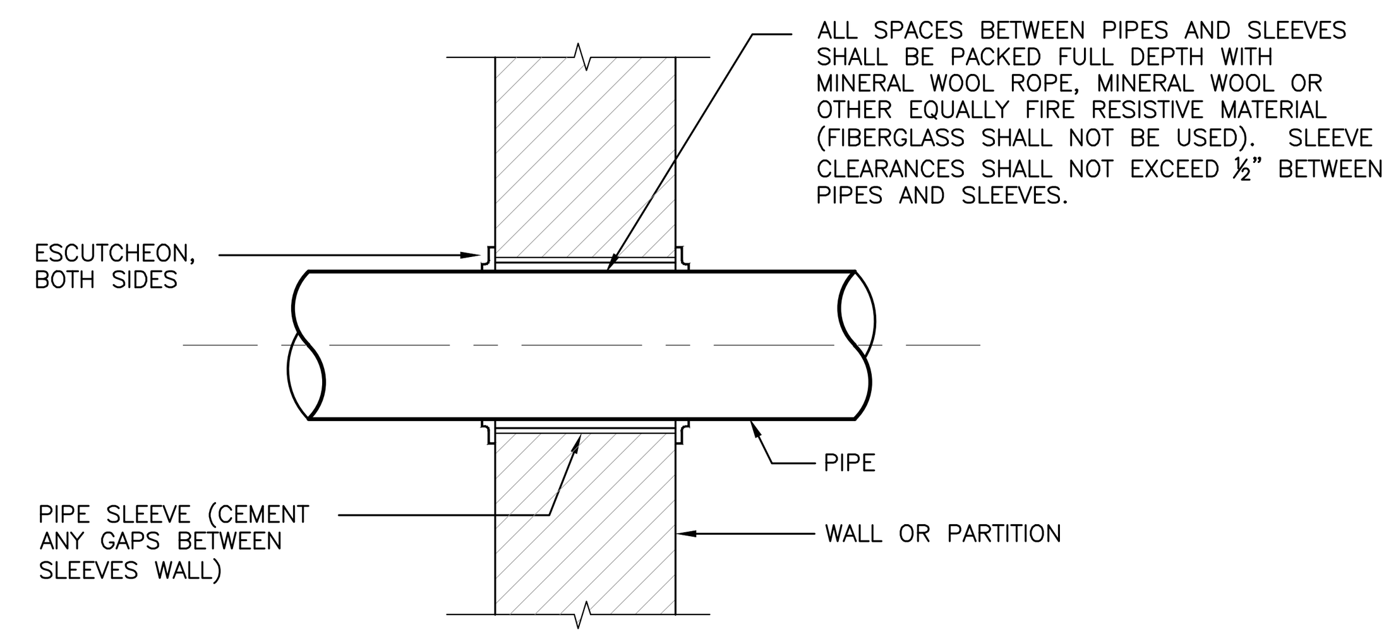
Job No. 4.1552.01

File No. 4155201 FP201

FP2.01

A B C D E F G H J K L M N O P

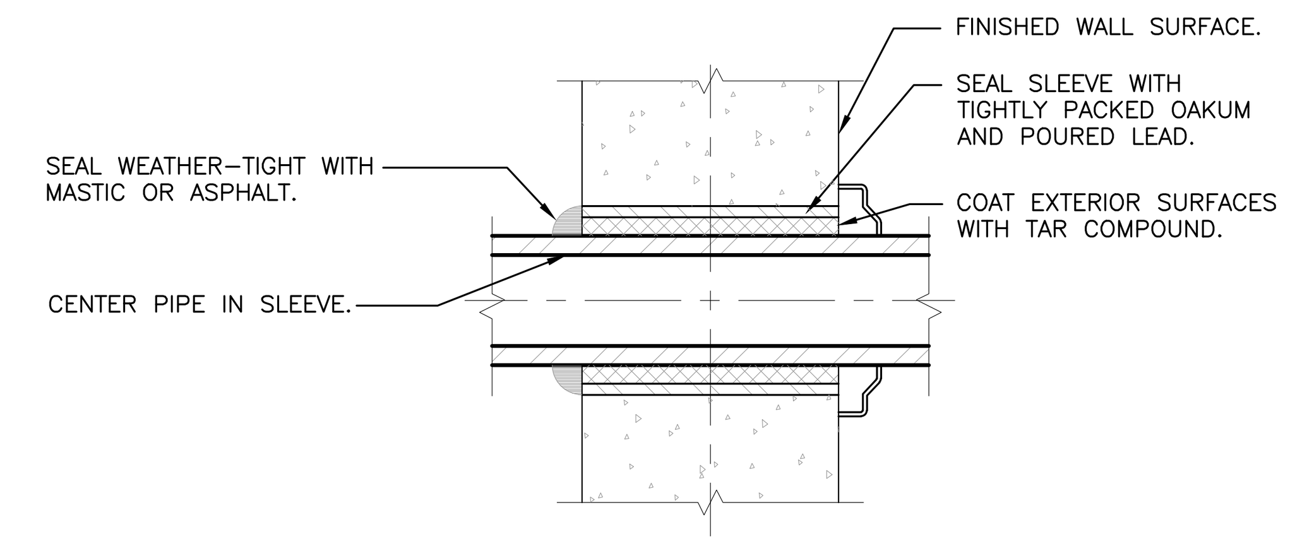
FIRE RATED PARTITION AND WALL PENETRATION DETAIL



NOTE:
THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION – SEE SPECIFICATIONS.

1 FP6.01 FIRE RATED PARTITION AND WALL PENETRATION DETAIL
NOT TO SCALE

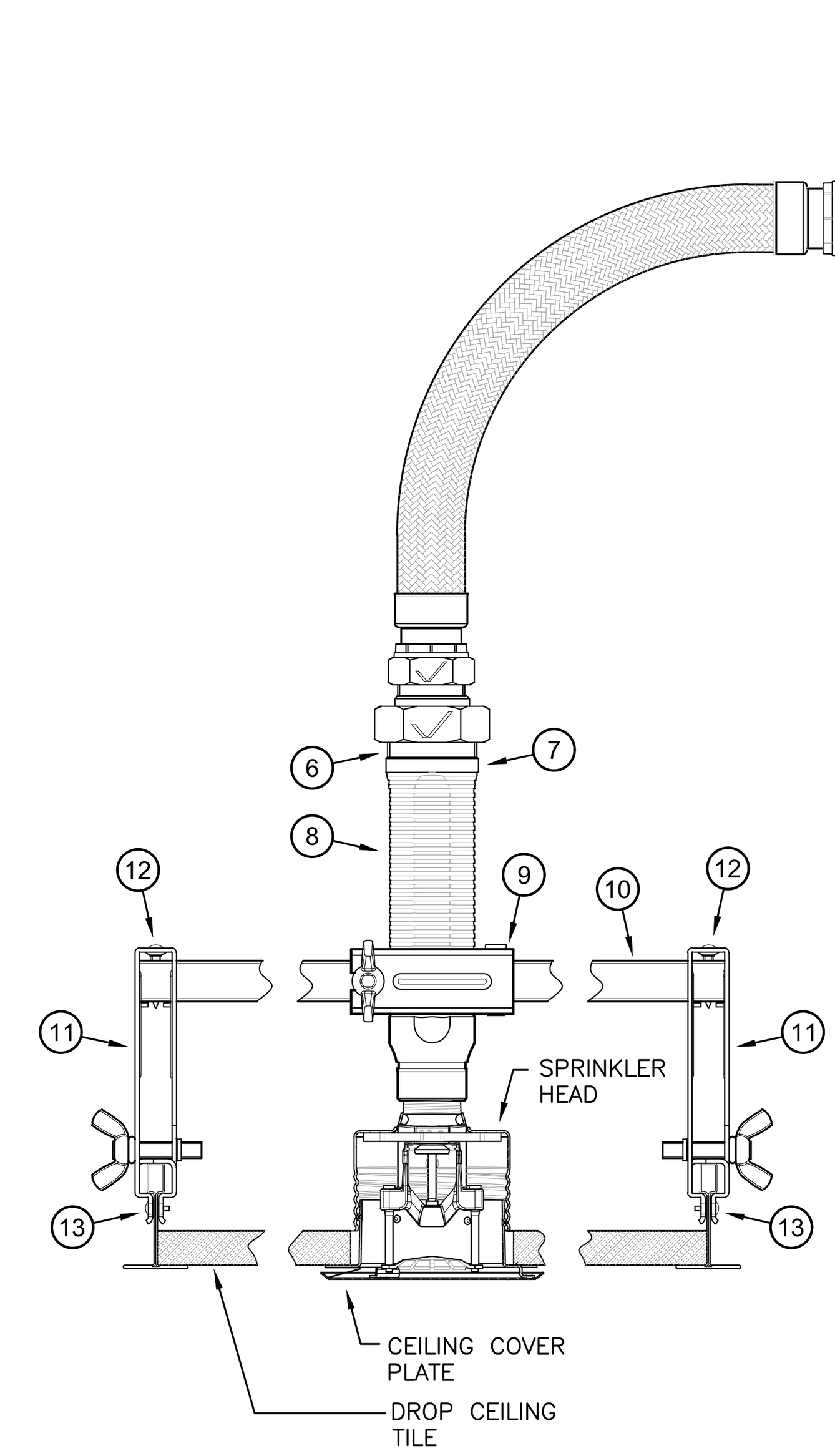
EXTERIOR WALL PIPE PENETRATION DETAIL



NOTE:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.

4 FP6.01 EXTERIOR WALL PIPE PENETRATION DETAIL
NOT TO SCALE

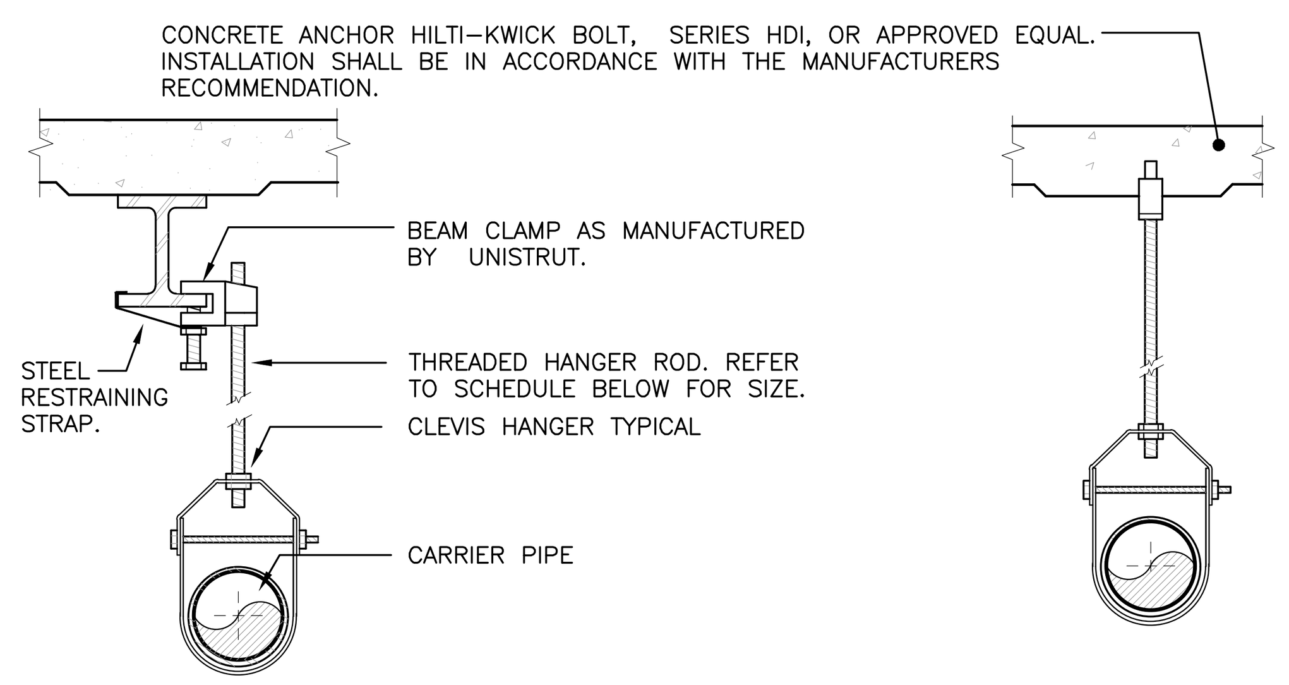
TYPICAL FLEXIBLE HOSE SPRINKLER ASSEMBLIES FOR CONCEALED PENDANT SPRINKLERS



PRODUCT LEGEND	
TAG	DESCRIPTION
1	INLET NIPPLE (1" MPT)
2	NUT
3	ADAPTER RING
4	NOT USED
5	STAINLESS STEEL FLEXIBLE UNBRAIDED HOSE (7/8" NOMINAL DIAMETER) (LENGTHS AVAILABLE 31", 36", 48", 60", & 72")
6	ADAPTER RING
7	NUT
8	REDUCING OUTLET (AVAILABLE 1/2" OR 3/4" FMPT)
9	CENTER BRACKET ASSEMBLY
10	SQUARE BAR (AVAILABLE IN 24" AND 48" LENGTHS)
11	END BRACKET ASSEMBLY
12	SHEET METAL SCREW
13	#8 X 1/2-INCH SELF-TAPPING SCREW
14	MECHANICAL-T OUTLET

X FP6.01 TYPICAL FLEXIBLE HOSE SPRINKLER ASSEMBLIES FOR CONCEALED PENDANT SPRINKLERS
NOT TO SCALE

PIPE HANGER DETAIL

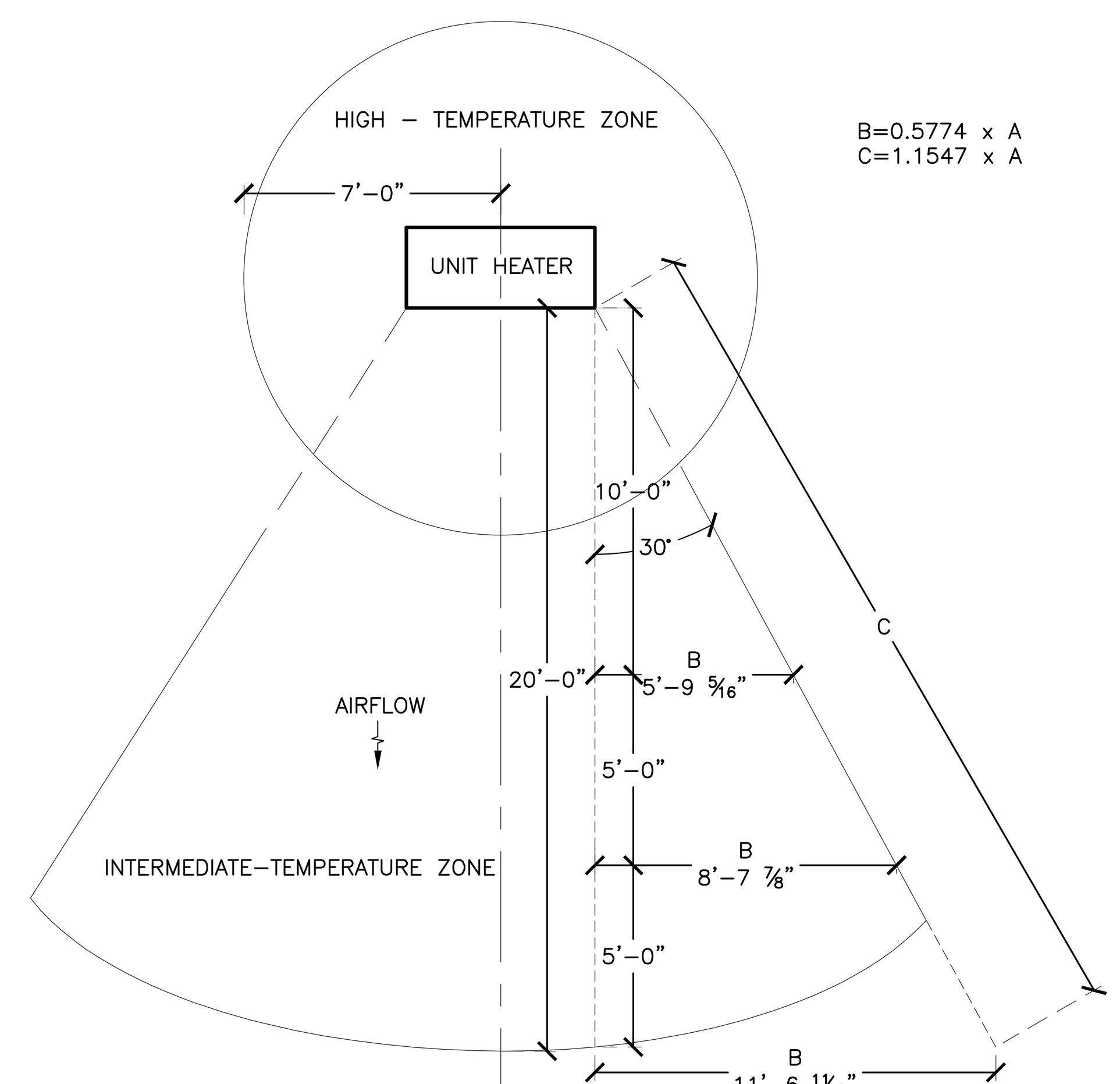


PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"–2"	2 1/2"–3"	4"–5"	6"	8"–12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
3. ALL PIPE HANGERS AND ASSOCIATES COMPONENTS LOCATED IN WASH BAY 100SHALL BE GALVANIZED STEEL.

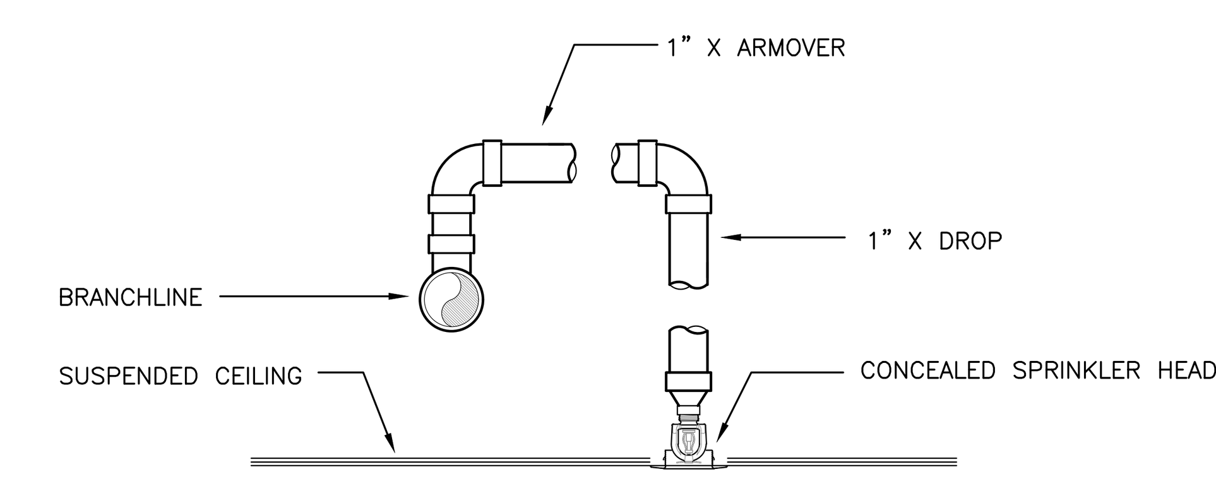
2 FP6.01 PIPE HANGER DETAIL
NOT TO SCALE

SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS



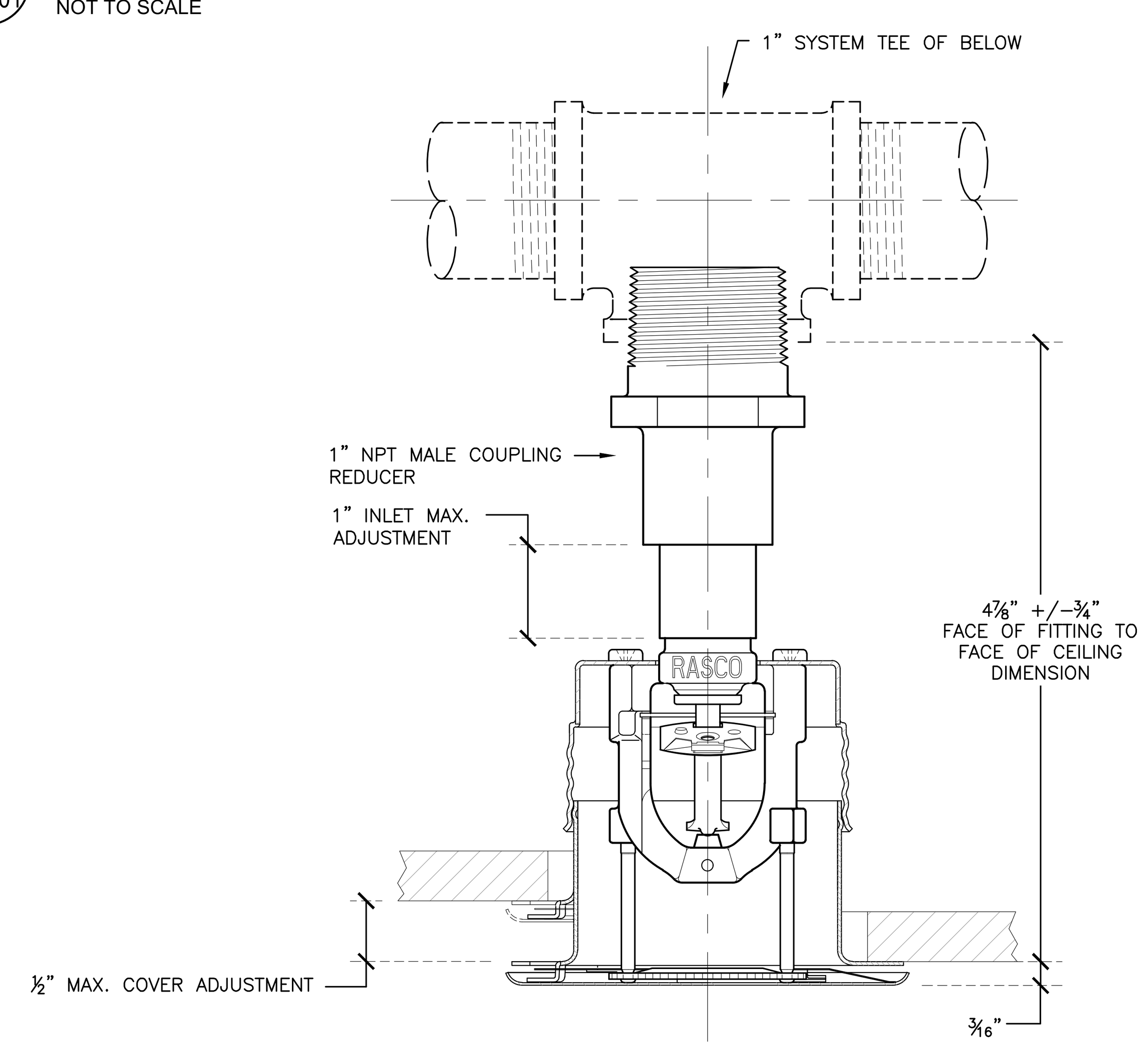
5 FP6.01 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS
NOT TO SCALE

TYPICAL ARM OVER DETAIL



X FP6.01 TYPICAL ARM OVER DETAIL
NOT TO SCALE

CONCEALED SPRINKLER HEAD DETAIL



3 FP6.01 CONCEALED SPRINKLER HEAD DETAIL
NOT TO SCALE

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FIRE PROTECTION: DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 FP601

FP6.01

FIRE PROTECTION GENERAL NOTES

1. ALL SPRINKLER SYSTEM WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 FIRE CODE OF NEW YORK STATE, BUILDING CODE OF NEW YORK STATE, NFPA 13, NFPA 20, AND ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, SPRINKLER HEADS, PUMPS, TESTS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE SPRINKLER SYSTEM COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS. WHERE NECESSARY ALL MATERIALS, EQUIPMENT, AND ETC. SHALL BE UL LISTED AND FM APPROVED.
3. PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING, SPRINKLER HEADS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID CONFLICTS. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK.
4. PLUMBING CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS WITH. FOR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SEAL WITH FIRE–STOPPING MATERIAL SIMILAR TO HILTI INTUMESCENT FIRE STOP MATERIAL TO MAINTAIN FIRE AND SMOKE RATINGS.
5. PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER, AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIALS) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
6. PLUMBING CONTRACTOR SHALL DEMONSTRATE NEW FIRE PROTECTION SYSTEM TO OWNER AND REVIEW MAINTENANCE PROCEDURES.
7. PLUMBING CONTRACTOR SHALL PERFORM ALL REQUIRED TESTS BY NFPA, ENGINEER, BUILDING DEPARTMENT AND FIRE DEPARTMENT TO THEIR SATISFACTION.
8. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS TO ENSURE CONCEALMENT OF ALL PIPING. NOTIFY ARCHITECT WHEN CONFLICTS EXIST PRIOR TO INSTALLING PIPING.
9. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) & (120V) FOR SYSTEMS SHOWN ON THE DRAWINGS, INCLUDING ALL RELAYS, TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
10. PLUMBING CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
11. PLUMBING CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND OBSERVE ALL CLEARANCES.
12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. ELECTRICAL CODE AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION IN EMT CONDUIT. 120V/1 – MINIMUM CONDUCTOR SIZE #12. 24V – MINIMUM CONDUCTOR SIZE #18. MINIMUM CONDUIT SIZE SHALL BE ¾". CONDUIT INSTALLED OUTDOORS SHALL BE GALVANIZED. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR APPROVED MATERIALS AND METHODS OF INSTALLATION.
13. PLUMBING CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT OR STRUCTURAL ENGINEER.
14. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS DOORS, WHERE REQUIRED, FOR ALL CONCEALED SYSTEM COMPONENTS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN FIRE RATING OF WALL ON CEILING. ACCESS DOORS TO BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
15. PLUMBING CONTRACTOR SHALL OBSERVE CLEARANCES TO OBSTRUCTIONS.
16. PLUMBING CONTRACTOR SHALL PROVIDE METAL VALVE TAGS FOR ALL VALVES INSTALLED ON THE FIRE PROTECTION SYSTEM AND ALL OTHER REQUIRED IDENTIFICATION LABELS AND SIGNAGE. PROVIDE (2) MANUALS LISTING TAG NUMBER, LOCATIONS OF VALVE AND EQUIPMENT/PIPING SERVED BY VALVE.
17. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL FIRE PROTECTION SYSTEM PIPING, EQUIPMENT AND HEAD LOCATIONS WITH HYDRAULIC CALCULATIONS. COORDINATE SPRINKLER HEAD LOCATIONS WITH OTHER CONTRACTORS TO AVOID CONFLICTS. RELOCATE SPRINKLER HEADS TO MEET FIELD CONDITIONS. SHOP DRAWINGS SHALL SHOW SPRINKLER PIPE SIZES, PIPE HANGER REQUIREMENTS, FIRESTOPPING AND NECESSARY DETAILS REQUIRED FOR BUILDING DEPARTMENT AND INSURANCE CARRIER APPROVAL. HYDRAULIC CALCULATIONS SHALL BE BASED ON HYDRANT FLOW TEST PERFORMED BY THIS CONTRACTOR. SUBMIT SHOP DRAWINGS WITH HYDRAULIC CALCULATION TO ENGINEER FOR APPROVAL. SHOP DRAWINGS AN HYDRAULIC CALCULATIONS SHALL BE SIGNED BY A NYS PROFESSIONAL ENGINEER.
18. PLUMBING CONTRACTOR SHALL FURNISH & INSTALL NEW SPRINKLER CABINET WITH MINIMUM SIX SPARE SPRINKLER HEADS AND WRENCH. INCLUDE SEPARATE CABINET WITH SPRINKLERS AND WRENCH FOR EACH TYPE OF HEAD ON PROJECTION IN ACCORDANCE WITH NFPA 13.
19. WHEN INSTALLING SPRINKLER HEADS, THE PLUMBING CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION.
20. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND FILLING THE NEW SYSTEM AS REQUIRED FOR COMPLETION OF WORK. PROVISIONS SHALL BE MADE FOR COMPLETE DRAINAGE OF THE SYSTEM.
21. PROVIDE (2) 2½ GALLON PRESSURIZED WATER AND (1) 10 POUND ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
22. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERATING AUTOMATIC FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 AND NFPA 20.
23. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALL, FLOORS, AND CEILING IN FINISHED AREAS.
24. SPRINKLER SYSTEM PIPING SHALL BE ALTERED AS NEEDED TO ACCOMMODATE CEILING HEIGHTS, DUCTWORK, LIGHTS AND OTHER PIPING. PROVIDE ALL REQUIRED PIPING AND FITTINGS AS NEEDED TO OFFSET SPRINKLER SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER SHOWN ON THE DRAWINGS OR NOT.
25. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED WITH TOLERANCE OF ±½" OF THE CENTERLINE OF THE TILES. INSTALL SPRINKLER HEADS TIGHT TO THE BOTTOM OF THE HUNG CEILING, WITH CARE THAT THE FINISH IS NOT DAMAGED. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES SHALL BE FLUSH WITH THE CEILING PLANE, TOLERANCE GREATER THAN ±⅛" IS UNACCEPTABLE.
26. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START–UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES. FACTORY AUTHORIZED REPRESENTATIVES SHALL PROVIDE START–UP FOR FIRE PUMP SYSTEM.
27. PLUMBING CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS–BUILT) DRAWINGS OF ALL COMPLETED WORK.
28. PLUMBING CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS AROUND ALL OBSTRUCTIONS SUCH AS LIGHTS, EQUIPMENT, COLUMNS, AND ETC. AS REQUIRED TO PROVIDE COMPLETE COVERAGE IN ACCORDANCE WITH NFPA 13.
29. ALL FLOW, TAMPER AND ALARM DEVICES MUST BE TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. THIS CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR. THIS CONTRACTOR SHALL FURNISH AND INSTALL TAMPER–SWITCHES ON ALL SHUT–OFF VALVES.
30. ALL PRESSURE GAUGES SHALL BE LOCATED SO THEY ARE EASILY READABLE FROM THE FLOOR. MINIMUM ¼" GAUGE COCKS SHALL BE PROVIDED BETWEEN PIPING AND ALL GAUGES. INSTRUMENTS SHALL BE SELECTED SO THAT THE NORMAL RANGE OF OPERATING PRESSURE FALLS WITHIN THE MIDDLE–THIRD OF THE INSTRUMENT RANGE.
31. ALL VALVES SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED. SCREWED VALVES SHALL BE OF BRONZE CONSTRUCTION AND FLANGED VALVES OF CAST IRON CONSTRUCTION WITH BRONZE TRIM.

FIRE PROTECTION EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
	TYCO	SERIES TY–FRB	SIDEWALL SPRINKLER, QUICK RESPONSE, K=5.6 – "ORDINARY" TEMPERATURE CLASSIFICATION (135°F). RECESSED WHITE ESCUTCHEON PLATE.
	TYCO	SERIES RFII	CONCEALED PENDENT SPRINKLER, QUICK RESPONSE, K=5.6 –"ORDINARY" TEMPERATURE CLASSIFICATION (155°F). COLOR WHITE.
A	TYCO	SERIES RFII	CONCEALED PENDENT SPRINKLER, QUICK RESPONSE, K=5.6 –"INTERMEDIATE" TEMPERATURE CLASSIFICATION (200°F). COLOR WHITE.
B	TYCO	SERIES TY–FRB	UPRIGHT/PENDANT SPRINKLER, QUICK RESPONSE, K=5.6 –"ORDINARY" TEMPERATURE CLASSIFICATION (135°F). NATURAL BRASS, CHROME OR COLOR AS DIRECTED BY ARCHITECT. WITH METAL WIRE GUARD
C	TYCO	SERIES DS–1	DRY–TYPE, PENDANT SPRINKLER, WITH RECESSED ESCHUTCHEON, STANDARD RESPONSE, STANDARD COVERAGE, K=5.6 –"ORDINARY" TEMPERATURE CLASSIFICATION (135°F). SPRINKLER AND ESCUTCHEON FINISH: NATURAL BRASS, CHROME OR COLOR AS DIRECTED BY ARCHITECT.
D	TYCO	SERIES DS–1	DRY–TYPE, PENDANT SPRINKLER, WITH STANDARD ESCHUTCHEON, DSB–2 BOOT, STANDARD RESPONSE, STANDARD COVERAGE, K=5.6 –"ORDINARY" TEMPERATURE CLASSIFICATION (135°F). SPRINKLER AND ESCUTCHEON FINISH: NATURAL BRASS, CHROME OR COLOR AS DIRECTED BY ARCHITECT.
———	———	———	SPRINKLER PIPING ABOVEGROUND, SCHEDULE 40 STEEL WITH SCREWED JOINTS UP TO 2" AND SCHEDULE 10 ABOVE 2" USE MECHANICAL GROOVE COUPLING.

NOTES:

1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE.
3. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. COORDINATE HEATING EQUIPMENT LOCATIONS WITH MECHANICAL PLANS.
4. SPRINKLER CONTRACTOR SHALL FURNISH & INSTALL SHIELDS ON SPRINKLERS THAT CANNOT BE SUFFICIENTLY SPACED TO AVOID DISCHARGE INTERACTION.
5. FINAL K–FACTOR OF SPRINKLER HEADS BASED UPON HYDRAULIC CALCULATION REQUIREMENTS.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	–	POINT OF DISCONNECT/CONNECT
———	NEW	NEW WORK
	–	PENDENT OR UPRIGHT SPRINKLER HEAD
—	GPM	GALLONS PER MINUTE
—	MAX.	MAXIMUM
—	MIN.	MINIMUM
—	BFP	BACK FLOW PREVENTION DEVICE
	–	BUTTERFLY VALVE
FS	FS	FLOW SWITCH
T	TS	TAMPER SWICTH
—	PSI	POUNDS PER SQUARE INCH
—	SQ.FT.	SQUARE FEET
	–	ELBOW DOWN
	–	ELBOW UP
—	V	VOLTS
P	—	PUMP
	—	TWO–WAY FIRE DEPARTMENT CONNECTION
	—	THREE–WAY FIRE PUMP TEST CONNECTION
	—	OS&Y GATE VALVE
	—	CHECK VALVE

FIRE PROTECTION SYSTEM TESTS

1. HYDROSTATIC TEST: ALL PIPING AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT MINIMUM OF 200 PSI OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.
2. SYSTEM OPERATIONAL TESTS – WATER FLOW DETECTING DEVICES.
3. MAIN DRAIN VALVE – STATIC AND RESIDUAL PRESSURES.
4. PLUMBING CONTRACTOR SHALL PERFORM ALL FIRE PROTECTION SYSTEM TESTS REQUIRED BY NFPA 13, AND LOCAL FIRE INSPECTOR, OR AUTHORITY HAVING JURISDICTION.
5. ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION. SUBMIT REPORT ON ALL TESTS TO LOCAL FIRE INSPECTOR AND ENGINEER FOR APPROVAL.

FIRE PROTECTION SYSTEM REQUIREMENTS

FIRE PROTECTION SYSTEM REQUIREMENTS

1. NFPA 13 LIGHT HAZARD:
   A. MINIMUM WATER SUPPLY (1500 SQFT. X 0.10 GPM/SQFT)
   B. MAXIMUM SPRINKLER HEAD PROTECTION AREA: 225 SQFT.
2. NFPA 13 ORDINARY HAZARD II: (BREWERY 105A, BOILER 105B, CRUSHER 105C, COOLER 105D, AND SOUR 105E)
   A. MAXIMUM SPINKLER HEAD PROECTION AREA = 130 SQFT.
   B. MINIMUM WATER SUPPLY (1500 SQFT. X 0.20 GPM/SQFT.)
3. FLOW VELOCITY IN PIPING SHALL NOT EXCEED 20 FPS.
4. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13.
5. FINAL FLOW REQUIREMENTS BASED ON APPROVED HYDRAULIC CALCULATIONS.

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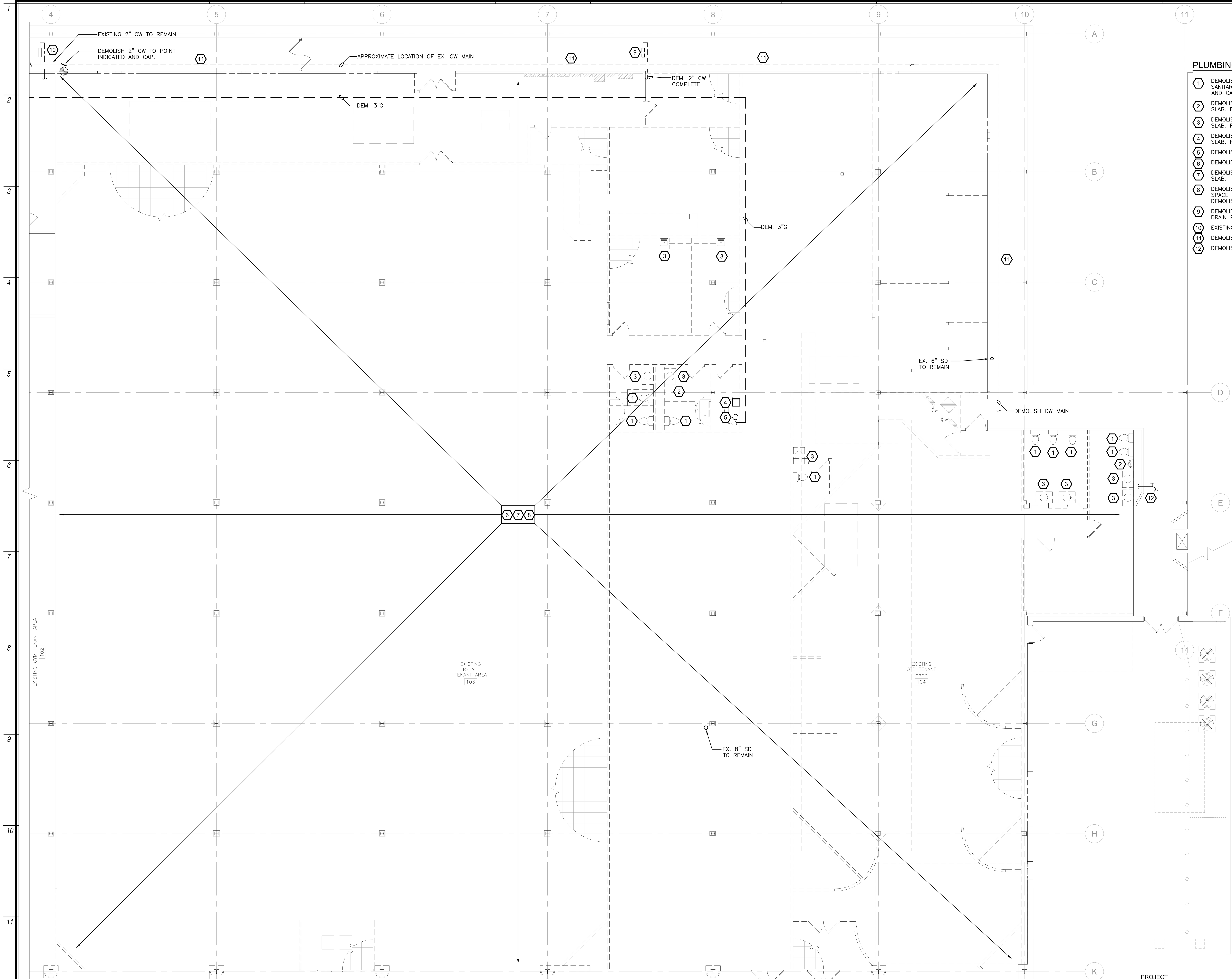
FIRE PROTECTION:
EQUIPMENT SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 FP701

FP7.01



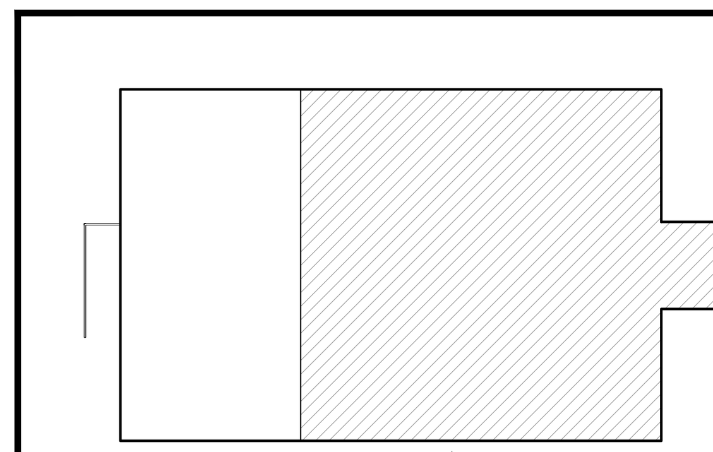
PLUMBING: PARTIAL FIRST FLOOR DEMOLITION PLAN

1 / P1.01 — SCALE: 1/8" = 1'-0"

PROJECT NORTH

PLUMBING DEMOLITION KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. DEMOLISH WATER CLOSET COMPLETE. DEMOLISH ALL ASSOCIATED PIPING. CAP SANITARY PIPING BELOW SLAB. REMOVE COLD WATER AND VENT PIPING TO MAIN AND CAP.
2. DEMOLISH URINAL AND ALL ASSOCIATED PIPING. CAP SANITARY PIPING BELOW SLAB. REMOVE COLD WATER AND VENT PIPING TO MAIN AND CAP.
3. DEMOLISH LAVATORY AND ALL ASSOCIATED PIPING. CAP SANITARY PIPING BELOW SLAB. REMOVE COLD WATER, HOT WATER AND VENT PIPING TO MAIN AND CAP.
4. DEMOLISH SINK AND ALL ASSOCIATED PIPING. CAP SANITARY PIPING BELOW SLAB. REMOVE COLD WATER, HOT WATER AND VENT PIPING TO MAIN AND CAP.
5. DEMOLISH HOT WATER HEATER AND ALL ASSOCIATED HOT WATER PIPING.
6. DEMOLISH ALL GAS PIPING TO SERVICE LOCATION.
7. DEMOLISH ALL FLOOR DRAINS WITHIN SPACE. CAP SANITARY PIPING BELOW SLAB.
8. DEMOLISH ALL COLD WATER, HOT WATER AND VENT PIPING ASSOCIATED WITHIN SPACE ASSOCIATED WITH REMOVED PLUMBING FIXTURES. COLD WATER SHALL BE DEMOLISHED TO MAIN AND CAPPED.
9. DEMOLISH RPZ AND ALL ASSOCIATED COMPONENTS. DEMOLISH ASSOCIATED DRAIN PIPING TO WALL AND CAP.
10. EXISTING RPZ TO REMAIN.
11. DEMOLISH COLD WATER PIPING TO POINT INDICATED AND CAP.
12. DEMOLISH HOSE BIBB AND ALL ASSOCIATED COLD WATER PIPING.



KEY PLAN

NOT TO SCALE

PROJECT NORTH

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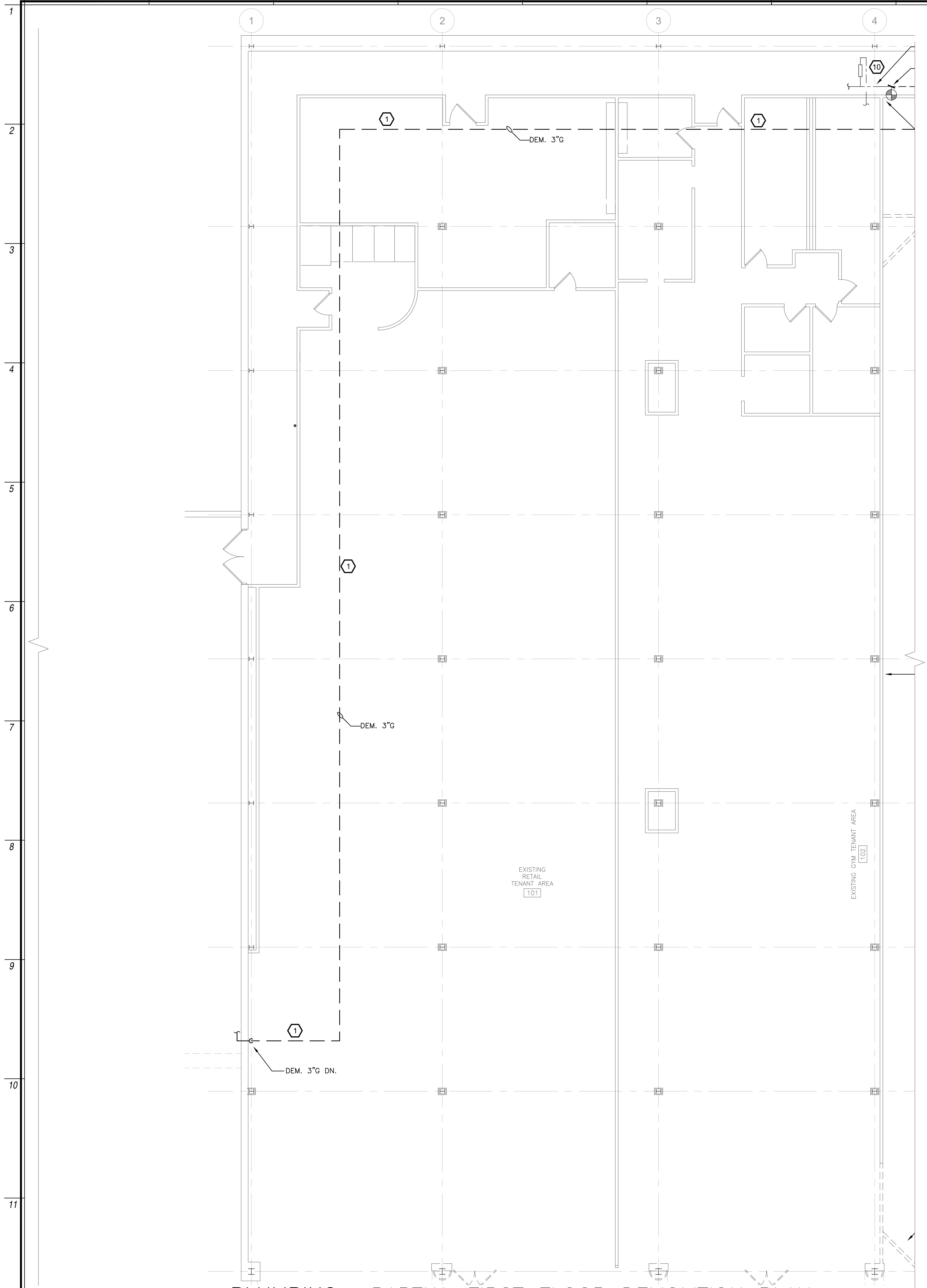
PLUMBING:
PARTIAL FIRST FLOOR DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P101

P1.01



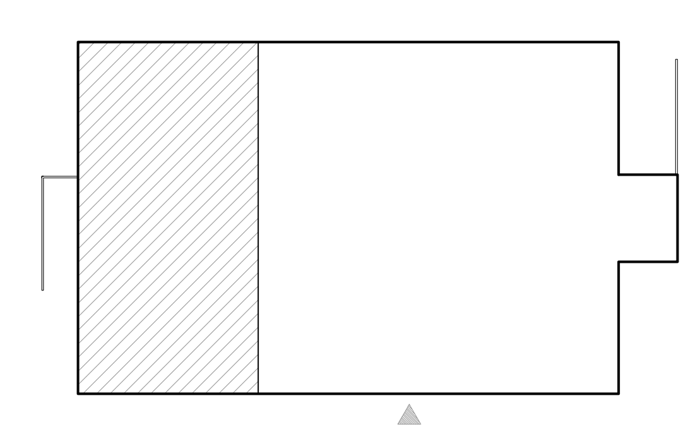
PLUMBING DEMOLITION KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. DEMOLISH ALL GAS PIPING TO SERVICE LOCATION.

1/P1.02 PLUMBING: PARTIAL FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

PROJECT NORTH



KEY PLAN

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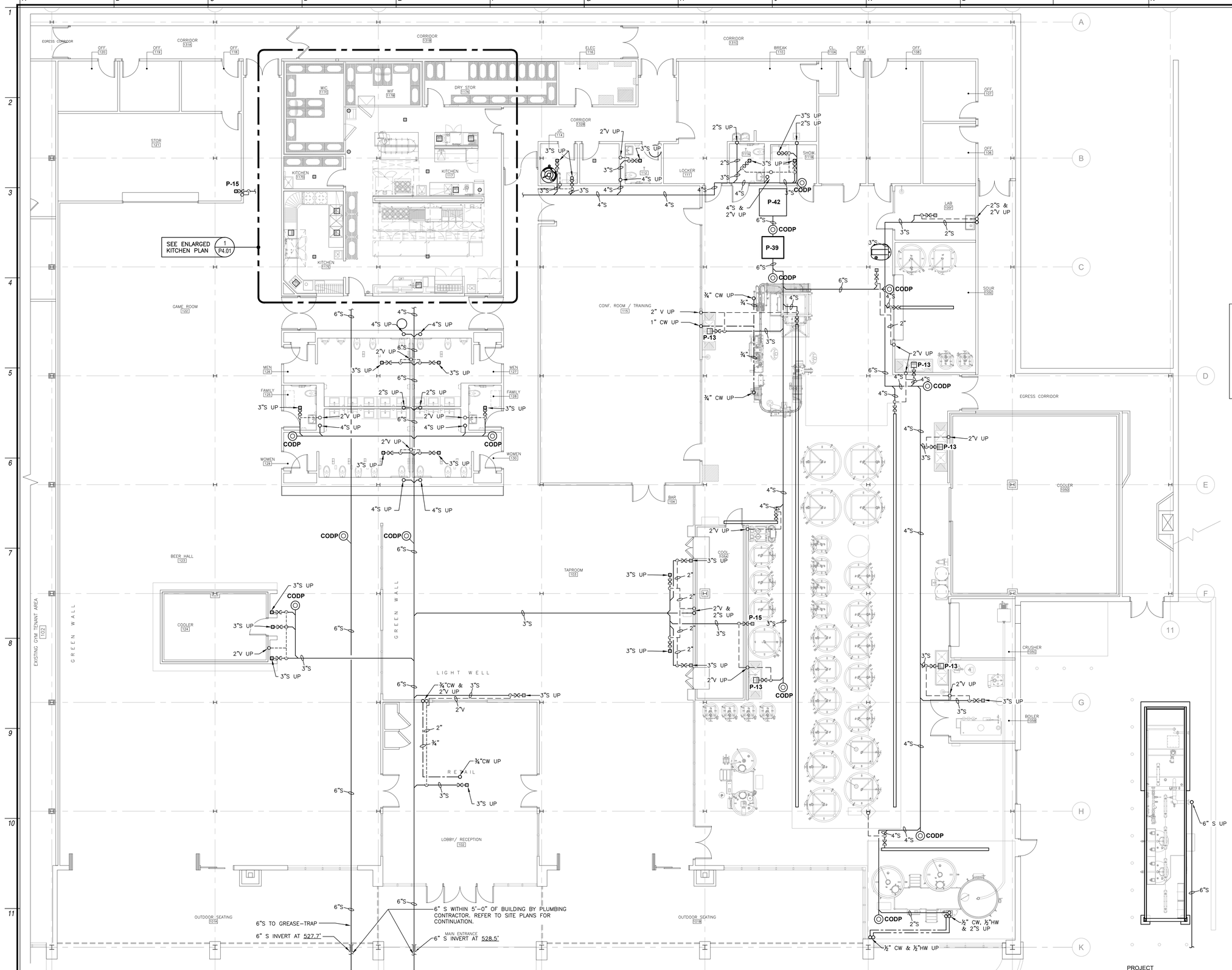
PLUMBING:
PARTIAL SECOND FLOOR DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P102

P1.02



NOTE:

1. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED SAW CUTTING OF EXISTING SLAB AS REQUIRED FOR PERFORMING PLUMBING SCOPE. PLUMBING CONTRACTOR SHALL CLEARLY MARK OUT LOCATIONS OF SAW CUTTING FOR THE GENERAL CONTRACTOR.
2. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE.
3. BELOW SLAB SANITARY AND VENT LINES SHALL BE MINIMUM OF 2"Ø

1/P2.01 **PLUMBING:** PARTIAL FIRST FLOOR BELOW SLAB PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

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PROJECT NORTH

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PLUMBING:
PARTIAL FIRST FLOOR BELOW SLAB PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P201

P2.01

KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. ¾" CW AND HW DN. ON WALL TO BALL VALVE. TERMINATE PIPING WITH ¾" NPT FITTING FOR CONNECTION BY OWNER.
2. INSTALL P-22 AND P-23 IN CABINET BELOW DRINKING STATION. ROUTE ½" CW THROUGH P-22 TO P-23. ROUTE ½" CW FROM P-23 TO DRINKING STATION PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE CONNECTION TYPE IN FIELD.
3. ROUTE 1" CW FROM P-24 TO OWNER PROVIDED AND INSTALLED TAPS. COORDINATE LOCATIONS AND CONNECTION TYPE IN FIELD.
4. ROUTE 2"S THROUGHOUT CABINETRY AS REQUIRED TO CONNECT TO OWNER FURNISHED AND INSTALLED DRIP TRAYS FOR TAP SYSTEM. COORDINATE LOCATION AND NUMBER OF CONNECTIONS IN FIELD.

NOTE:

1. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED SAW CUTTING OF EXISTING SLAB AS REQUIRED FOR PERFORMING PLUMBING SCOPE. PLUMBING CONTRACTOR SHALL CLEARLY MARK OUT LOCATIONS OF SAW CUTTING FOR THE GENERAL CONTRACTOR.
2. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE.
3. BELOW SLAB SANITARY AND VENT LINES SHALL BE MINIMUM OF 2"ø

1 P2.02 **PLUMBING:** PARTIAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

NOT TO SCALE

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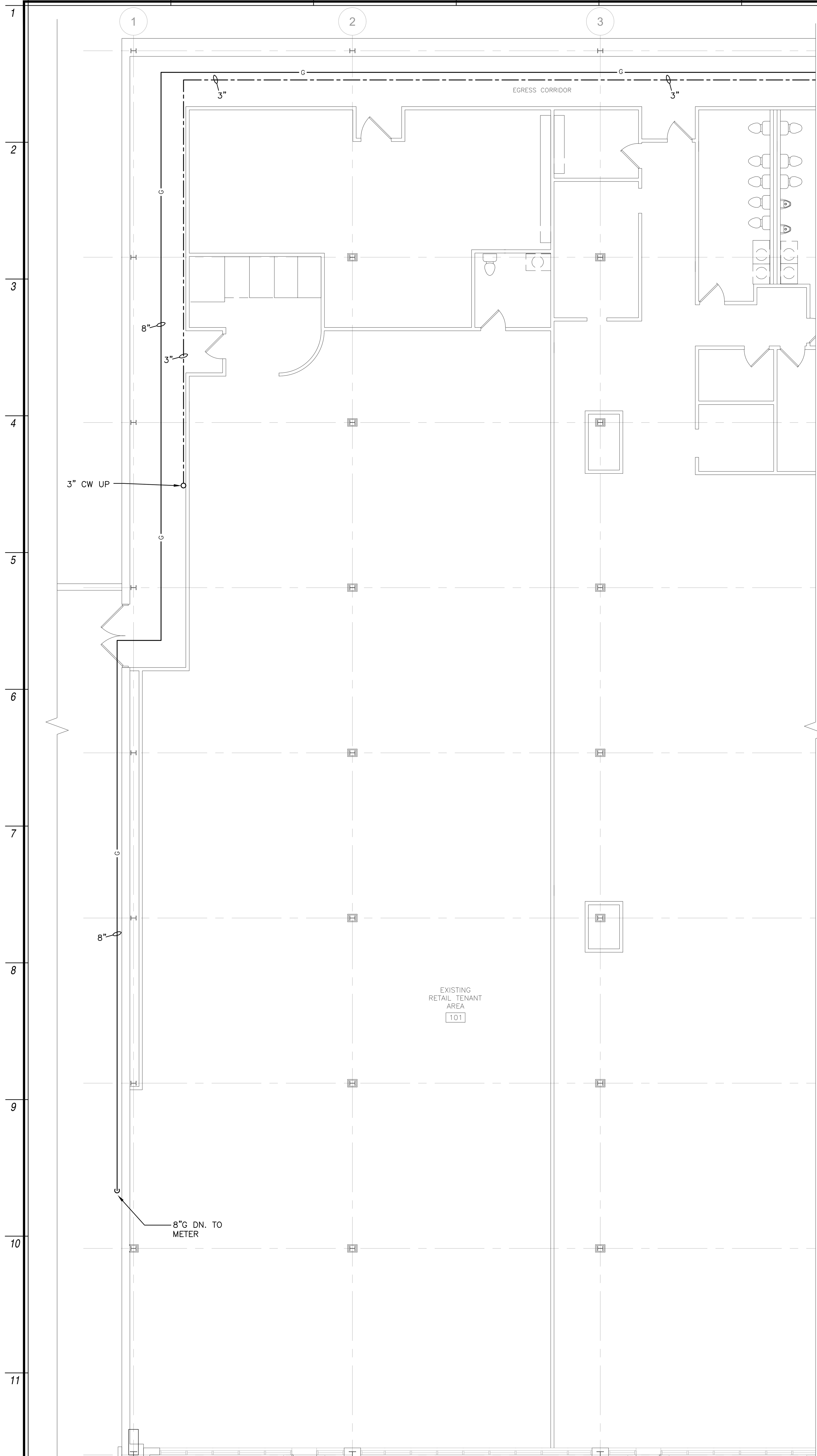
PLUMBING:
PARTIAL FIRST FLOOR PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

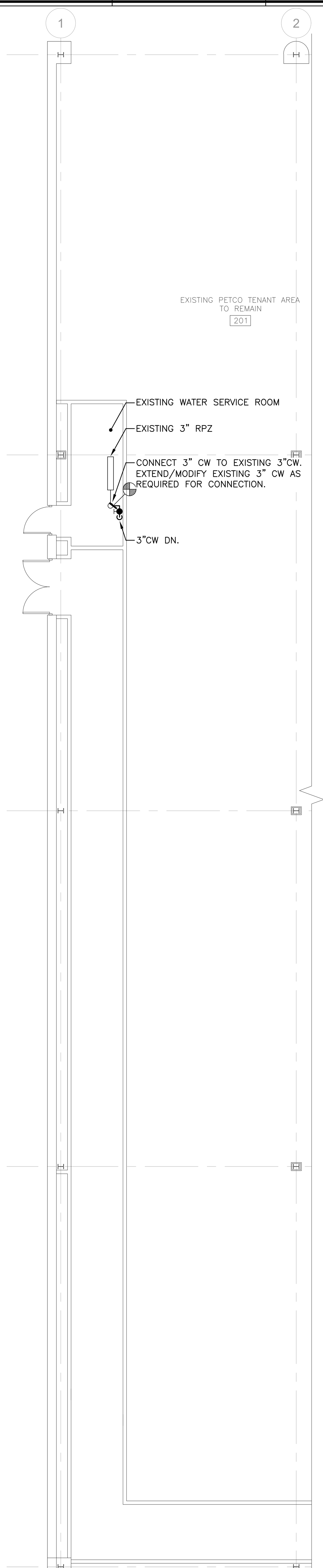
File No. 4155201 P202

P2.02



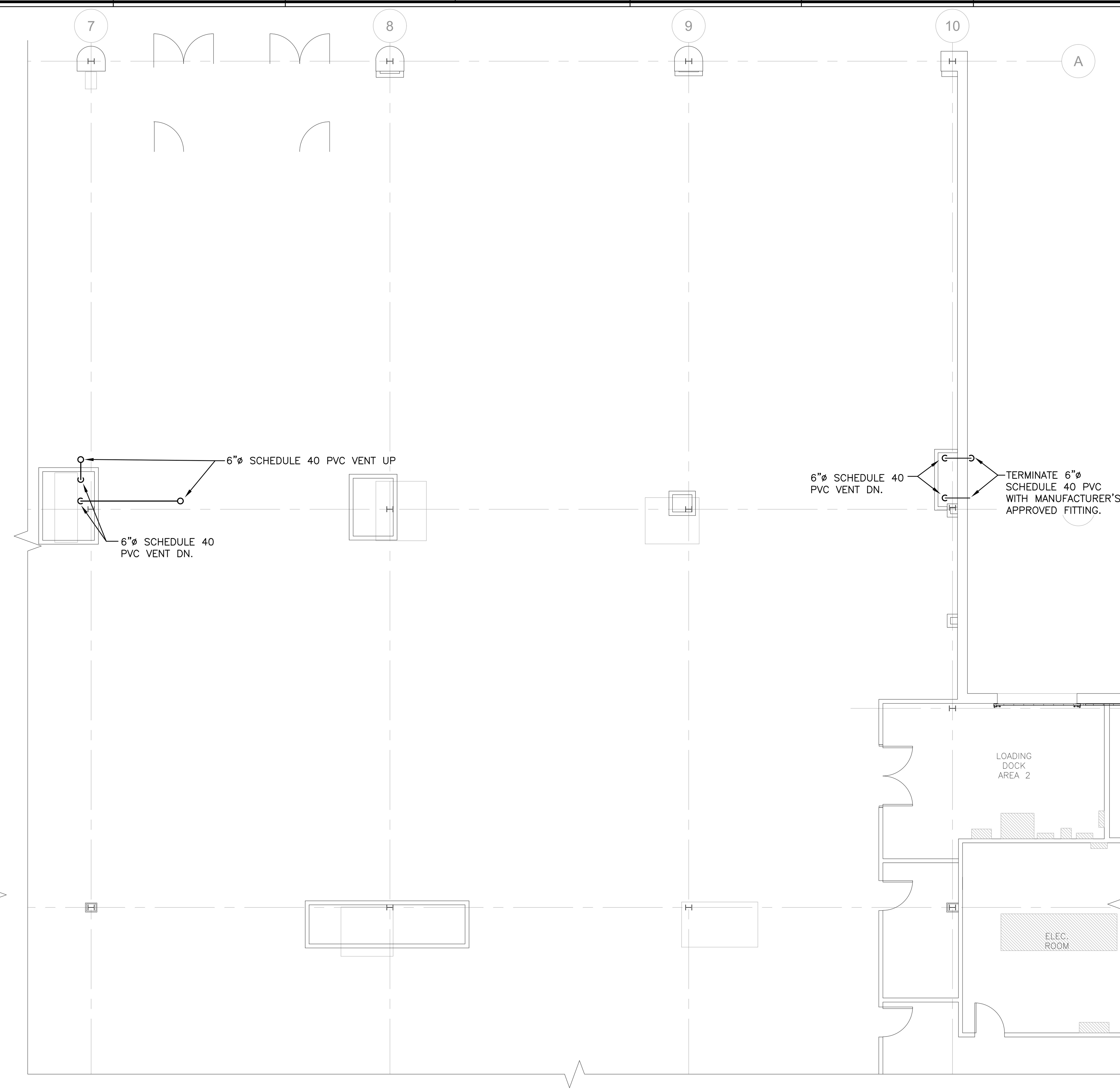
1 P2.03 PLUMBING: PARTIAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



2 P2.03 PLUMBING: PARTIAL SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

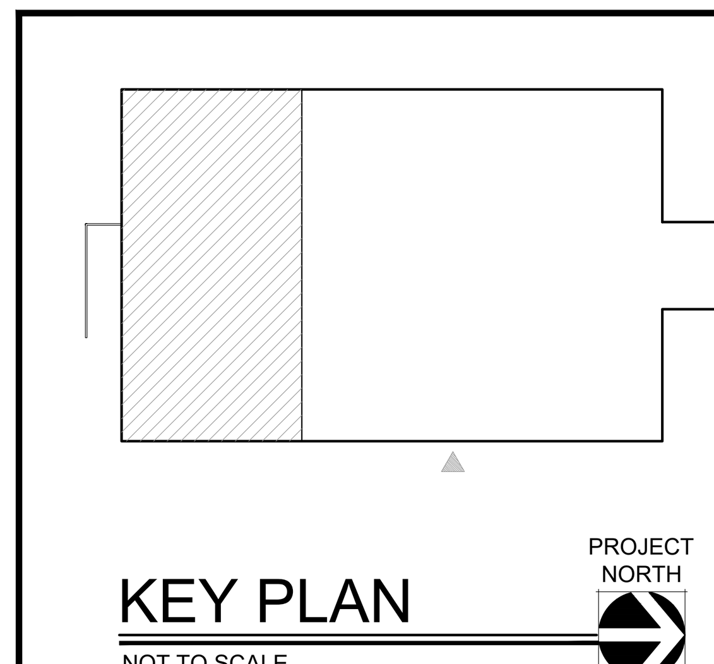


3 P2.03 PLUMBING: PARTIAL SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

NOTE:

1. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED SAW CUTTING OF EXISTING SLAB AS REQUIRED FOR PERFORMING PLUMBING SCOPE. PLUMBING CONTRACTOR SHALL CLEARLY MARK OUT LOCATIONS OF SAW CUTTING FOR THE GENERAL CONTRACTOR.
2. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE.
3. BELOW SLAB SANITARY AND VENT LINES SHALL BE MINIMUM OF 2"Ø



KEY PLAN

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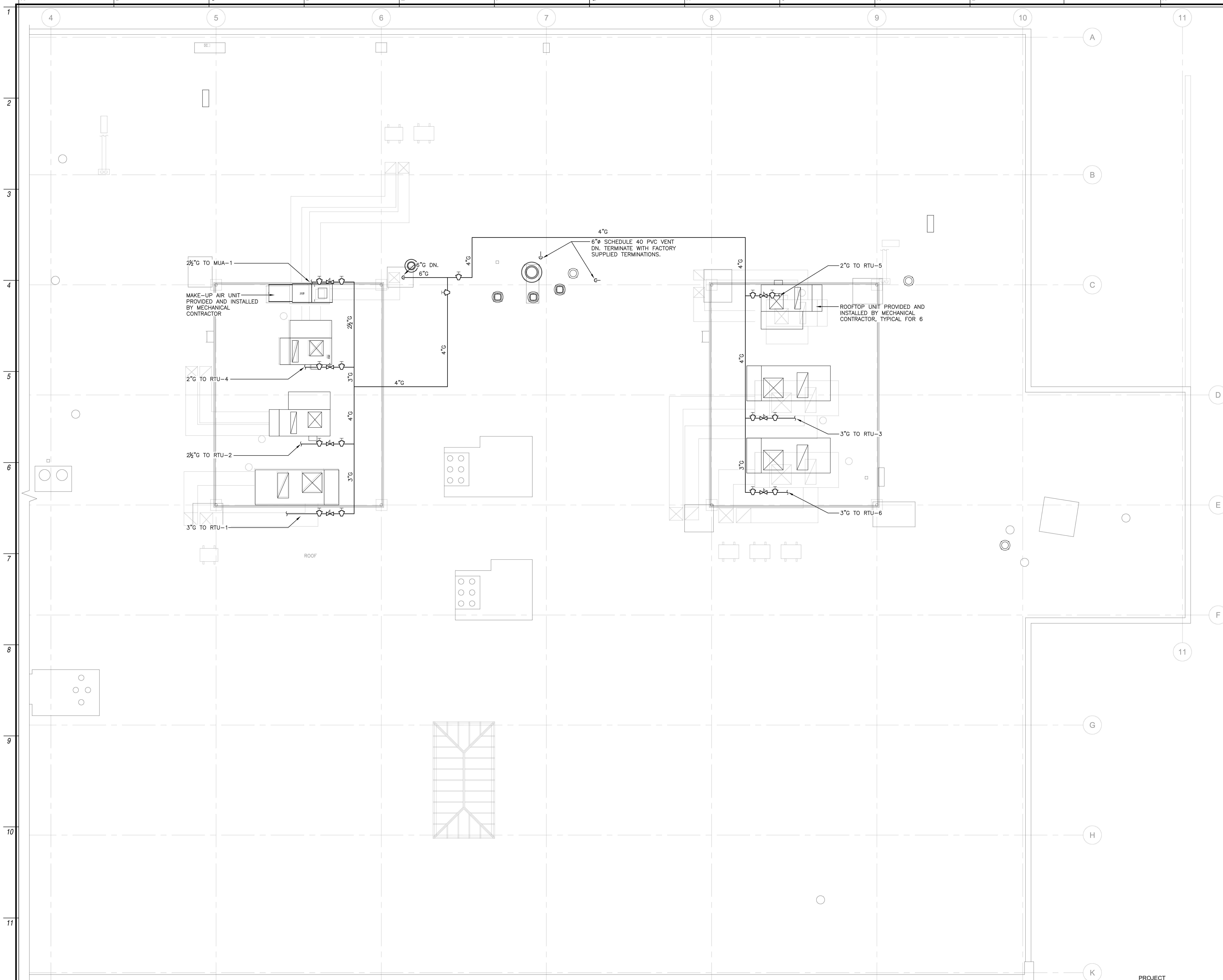
PLUMBING:
PARTIAL FLOOR PLANS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 P203

P2.03



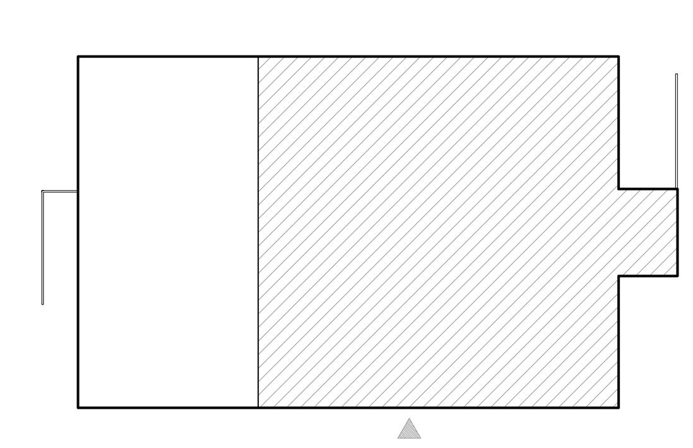
NOTE:

1. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE.

1 / P2.04 **PLUMBING: PARTIAL ROOF PLAN**

SCALE: 1/8" = 1'–0"

PROJECT NORTH



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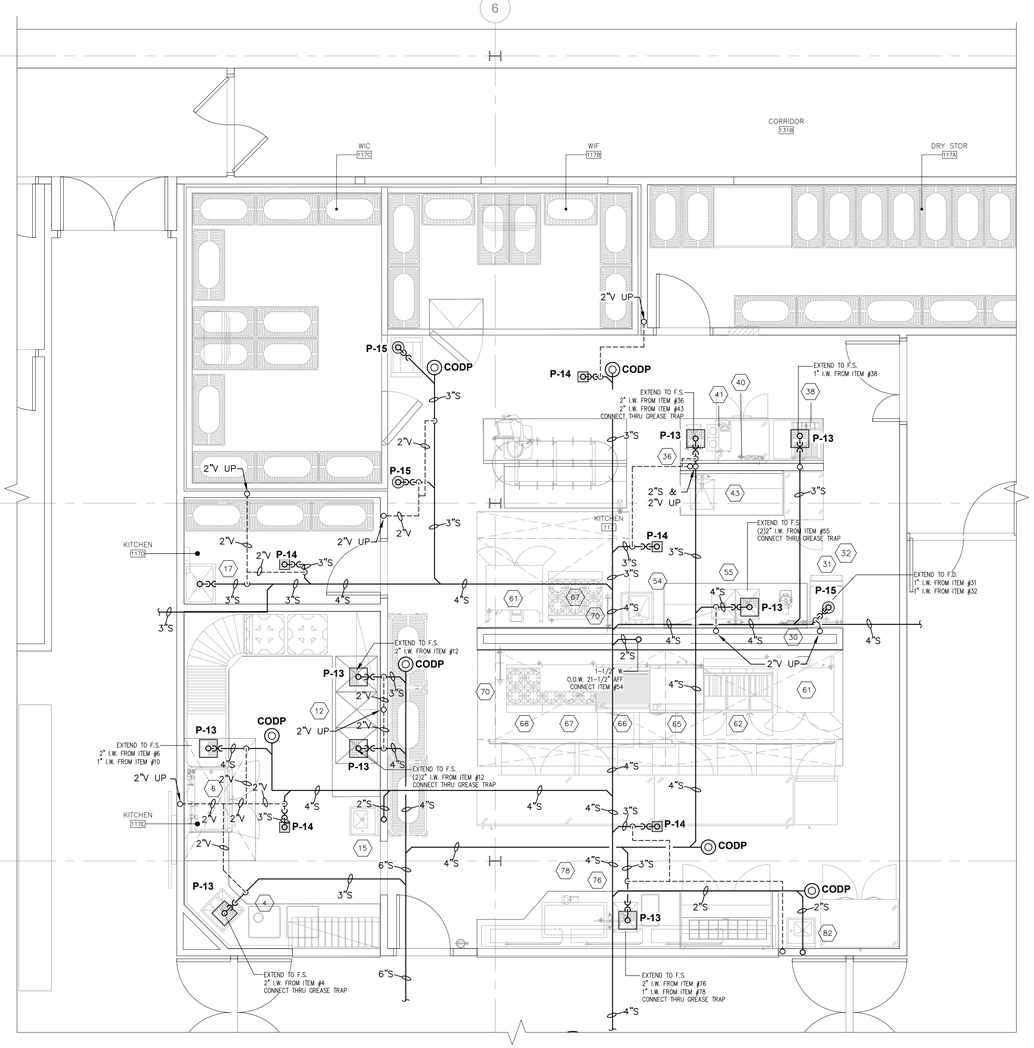
PLUMBING:
PARTIAL ROOF PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P204

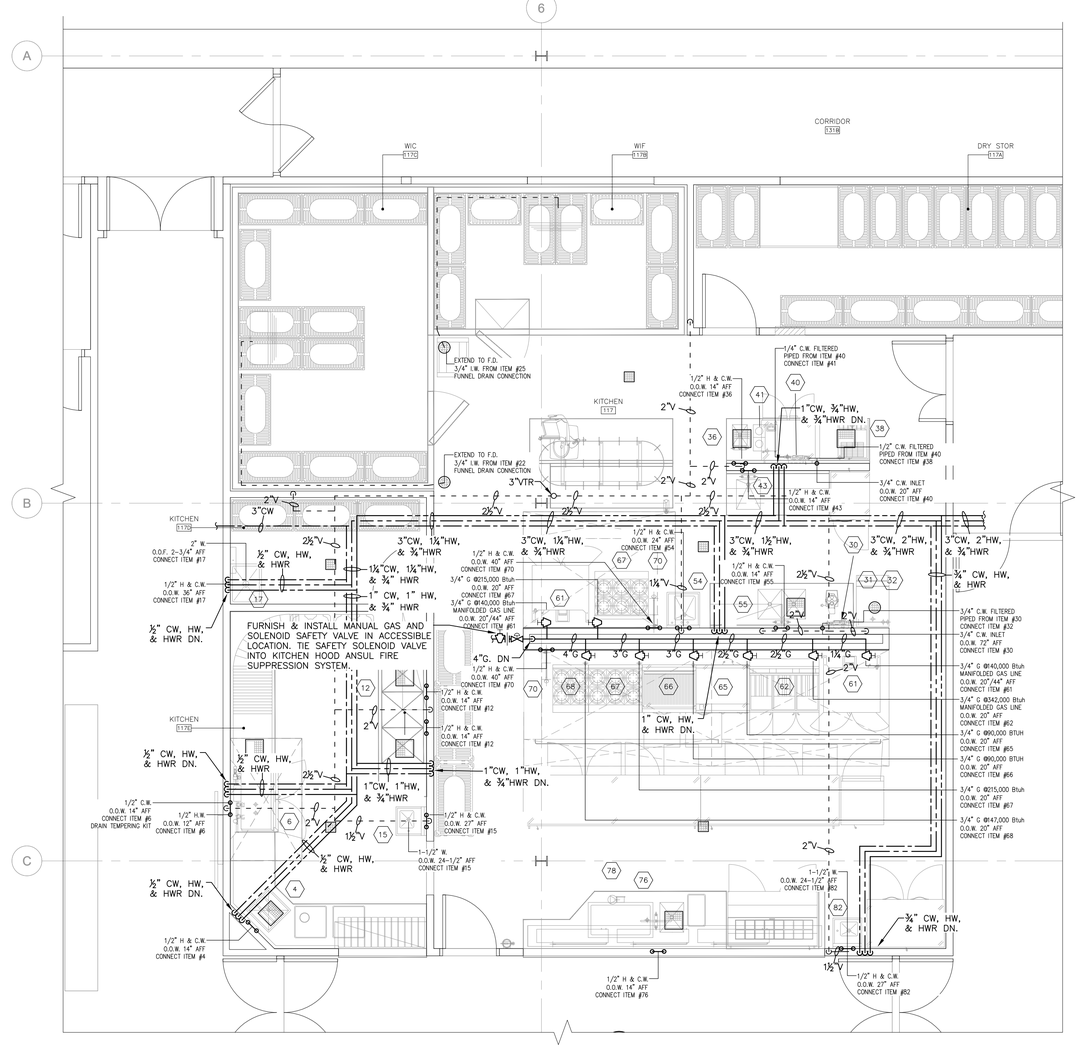
P2.04



1 P4.01 **PLUMBING:** ENLARGED KITCHEN AREA BELOW SLAB PLAN

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

PROJECT NORTH



2 P4.01 **PLUMBING:** ENLARGED KITCHEN AREA PLAN

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

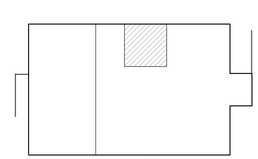
PROJECT NORTH

PLUMBING FOOD SERVICE EQUIPMENT NOTES:

1. SHUT-OFF VALVES ON THE INLET SIDE OF THE COLD AND HOT WATER LINES SERVING EACH PIECE OF EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
2. IF WATER PRESSURE AT THE EQUIPMENT AREA EXCEEDS 50 POUNDS OF PRESSURE, THE PLUMBING CONTRACTOR MUST INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT WATER AND COLD WATER SUPPLY LINES SERVICING THE AREA.
3. PLUMBING CONTRACTOR IS TO REVIEW ALL CATALOG DATA PROVIDED AS PART OF THE FOOD SERVICE CONTRACT DOCUMENTS.
4. PLUMBING CONTRACTOR TO VERIFY, FURNISH AND INSTALL ALL REQUIRED PLUMBING ROUGH-INS FOR ALL NEW EQUIPMENT BEING SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.
5. KITCHEN EQUIPMENT CONTRACTOR TO SET IN PLACE, EQUIPMENT AT THE SITE IN ACCORDANCE WITH THESE PLANS AND TERMS OF CONTRACT WITH OWNER.
6. ALL PLUMBING INCLUDING "ROUGH-INS, INTERCONNECTIONS BETWEEN COUNTERS, CONTROLS, SWITCHES, ETC..." AND "FINAL CONNECTIONS" TO THE EQUIPMENT, IS TO BE PERFORMED BY APPROPRIATE TRADES. IT IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
7. TO EXPEDITE AND INSURE PROPER INSTALLATION OF COOKING EQUIPMENT, IT IS RECOMMENDED THAT "ALL FINAL CONNECTIONS" ARE TO BE PERFORMED BY APPROPRIATE TRADES AT THE SAME TIME THE KITCHEN EQUIPMENT CONTRACTOR IS SETTING THE EQUIPMENT IN PLACE.
8. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR MORE INFORMATION.

NOTE:

1. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED SAW CUTTING OF EXISTING SLAB AS REQUIRED FOR PERFORMING PLUMBING SCOPE. PLUMBING CONTRACTOR SHALL CLEARLY MARK OUT LOCATIONS OF SAW CUTTING FOR THE GENERAL CONTRACTOR.
2. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE.
3. BELOW SLAB SANITARY AND VENT LINES SHALL BE MINIMUM OF 2"Ø



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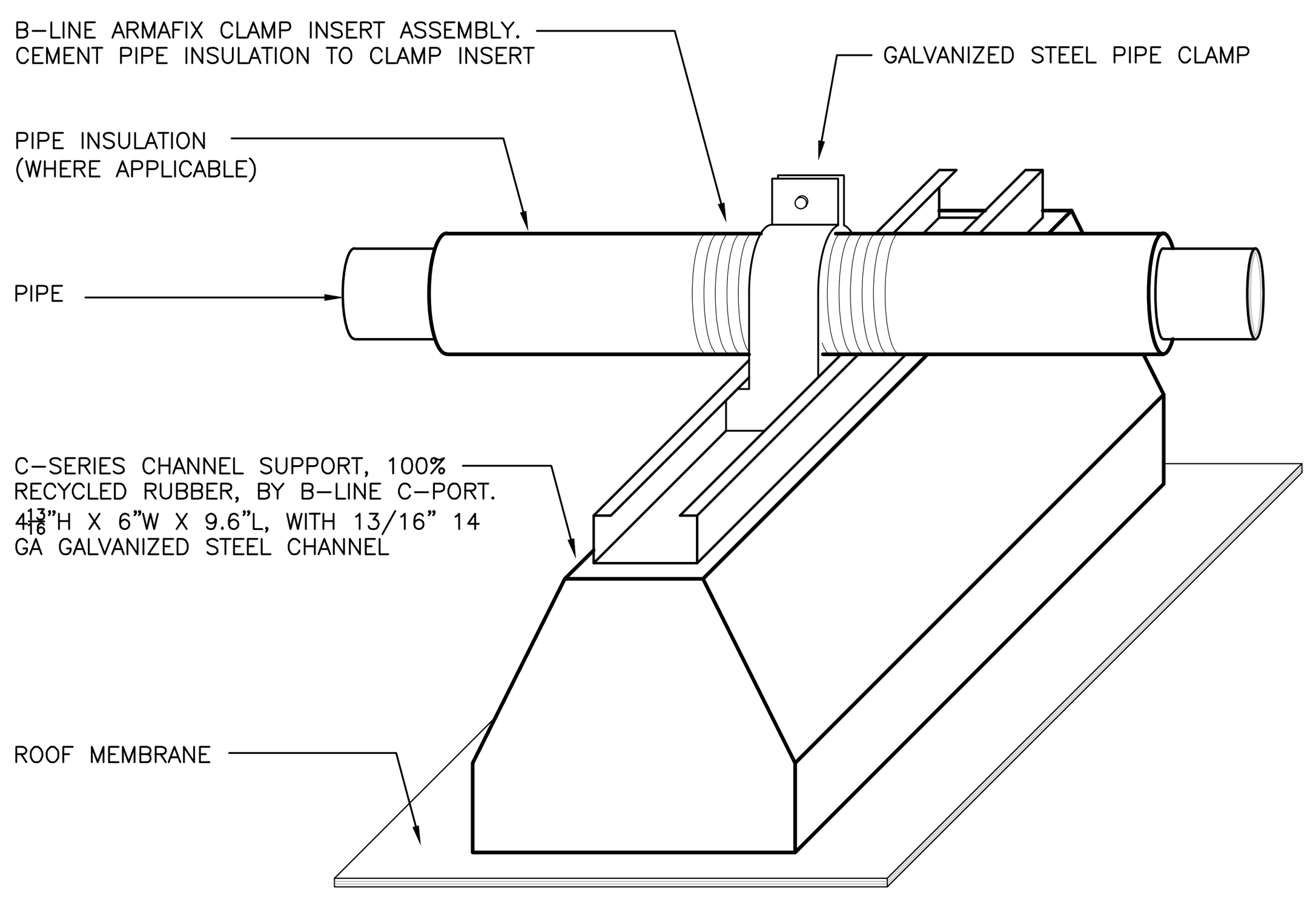
PLUMBING:
ENLARGED KITCHEN AREA PLANS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

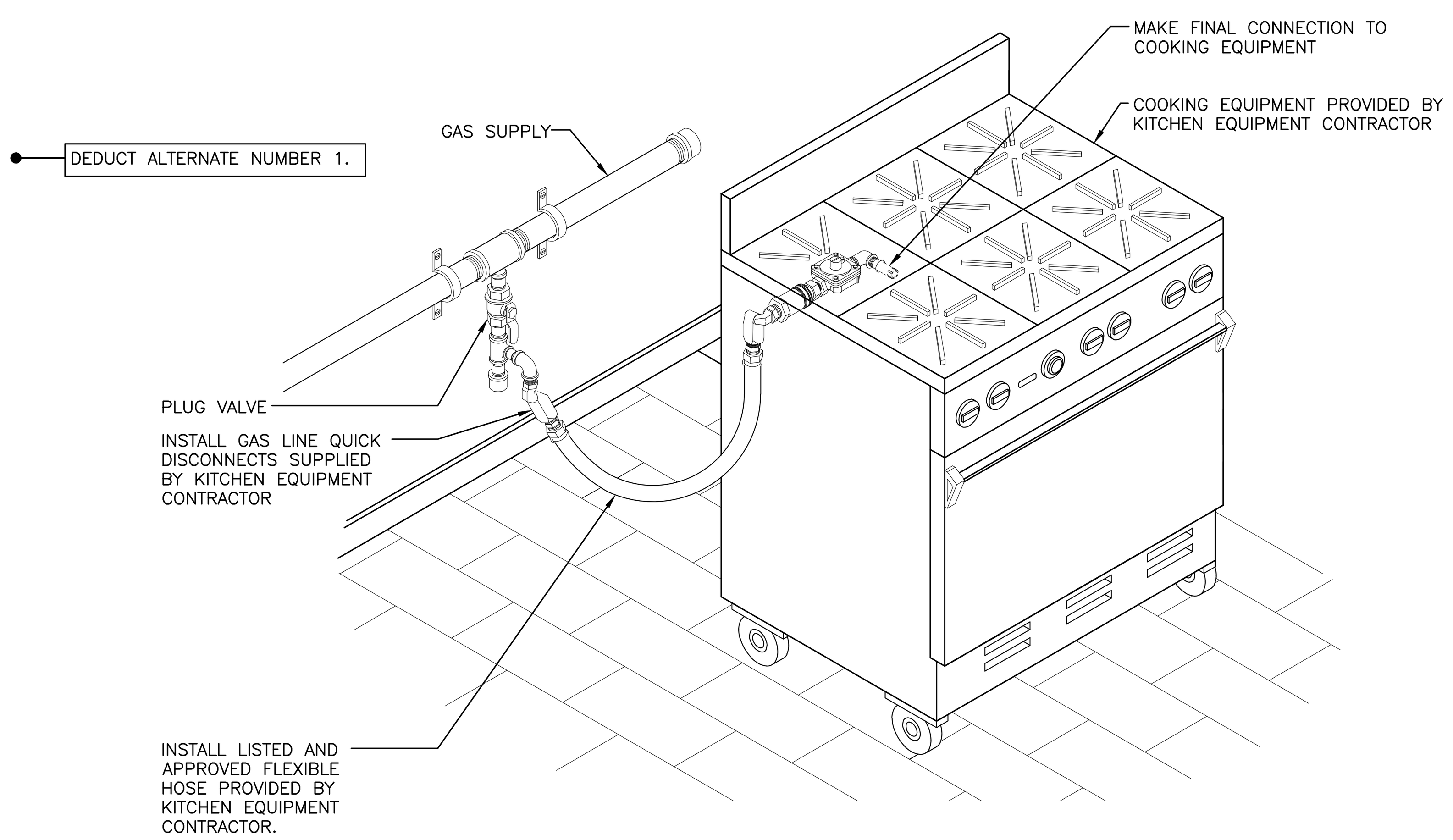
File No. 4155201 P401

P4.01

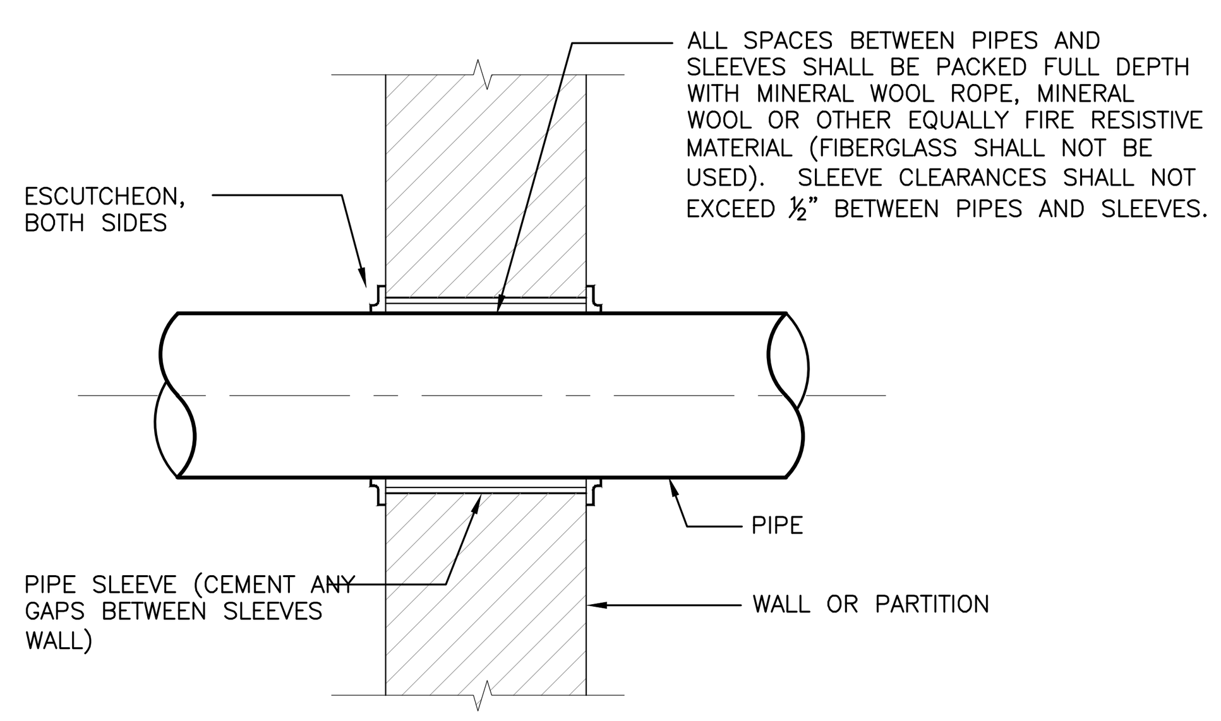


NOTES:
1. ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
2. CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFLEX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR SUPPORTS.
3. CEMENT RUBBER SUPPORT BLOCKS TO ROOF – USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM

1 / P6.01 ROOF PIPE SUPPORT DETAIL
NOT TO SCALE

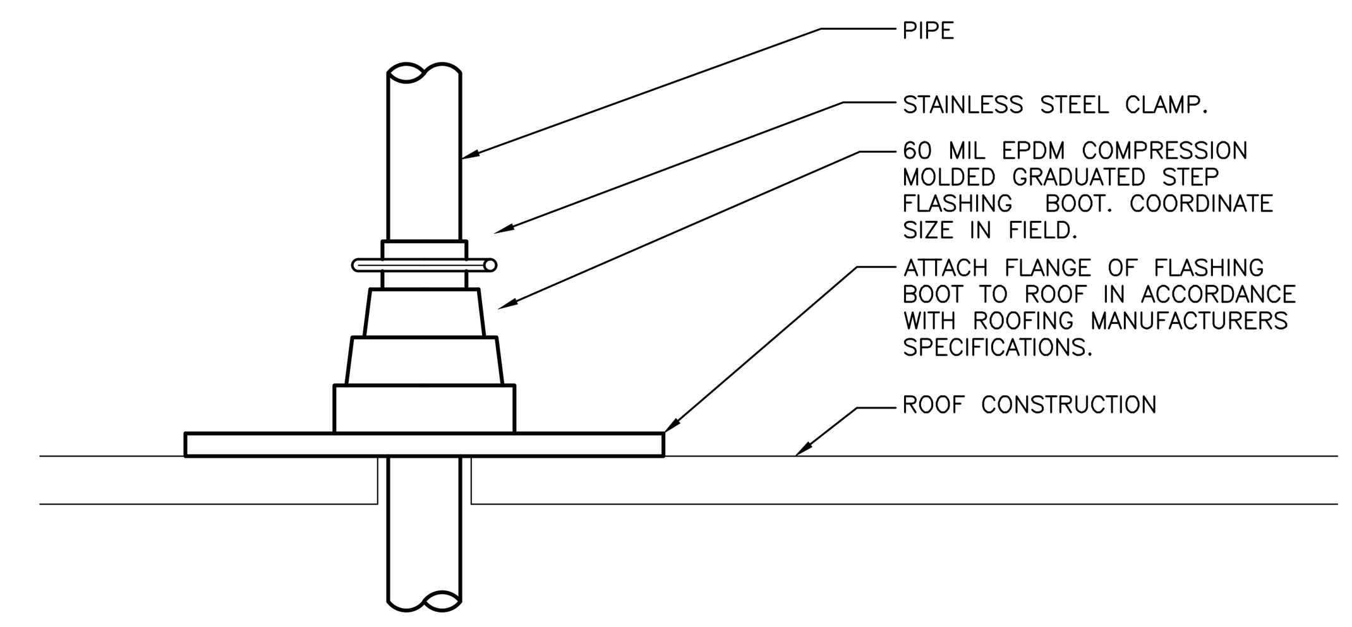


2 / P6.01 QUICK DISCONNECT GAS HOSE ASSEMBLY DETAIL
NOT TO SCALE



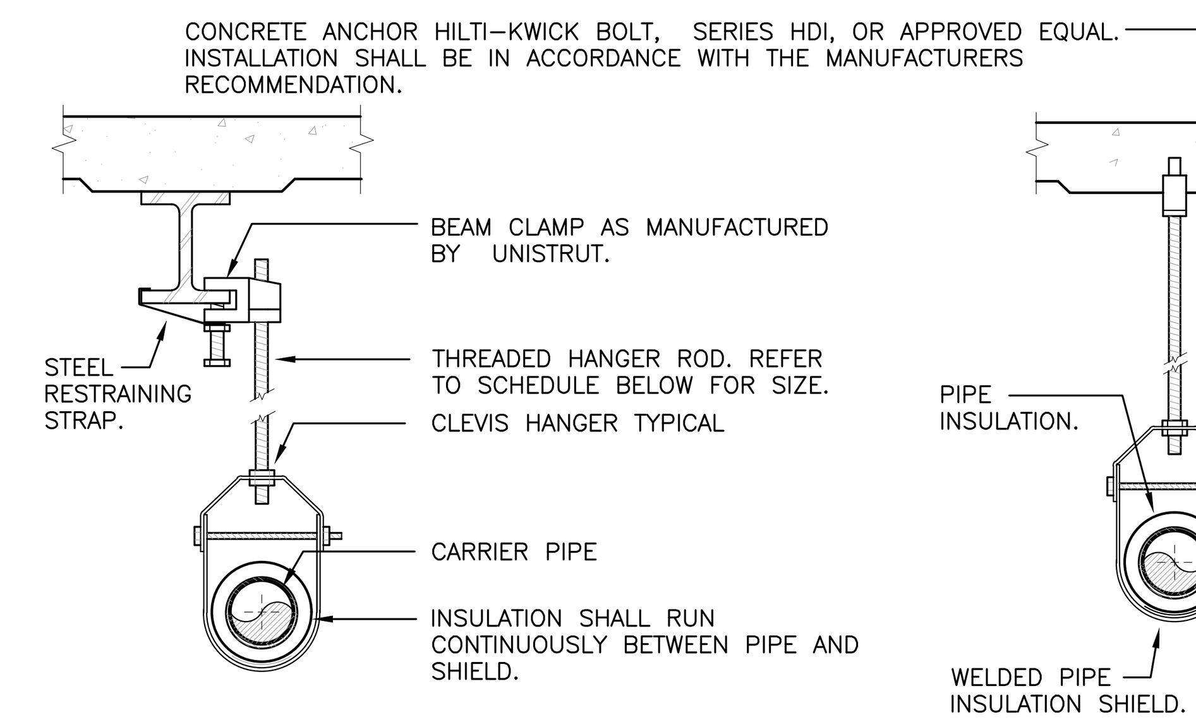
NOTES:
1. THIS DETAIL ALSO APPLICABLE TO INTERIOR NON–WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION – SEE SPECIFICATIONS.
2. PROVIDE FIRE STOP SEALANT ON ALL NEW AND EXISTING PIPING PENETRATING EXISTING FIRE RATED WALLS AND NEW FIRE RATED WALLS CONSTRUCTED AS PART OF THE PROJECT.

3 / P6.01 FIRESTOP DETAIL
NOT TO SCALE



NOTES:
1. CONTRACTOR TO SELECT FLASHING BOOT BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. FLASHING BOOT SHALL PROVIDE A WATERTIGHT SEAL.
2. CLEAN AND PREPARE ROOF SURFACE AS REQUIRED FOR INSTALLATION OF FLASHING BOOT AND IN ACCORDANCE WITH ANY SPECIAL REQUIREMENTS PER THE ROOFING MANUFACTURER.
3. COORDINATE QUANTITIES AND SIZES OF PIPE/CONDUIT PENETRATIONS IN THE FIELD WITH CAP AND BOOT REQUIREMENTS.
4. USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.
5. TERMINATE VENT THROUGH ROOF PIPING MINIMUM 24" ABOVE ROOF.

4 / P6.01 ROOF PIPE PENETRATION DETAIL
NOT TO SCALE

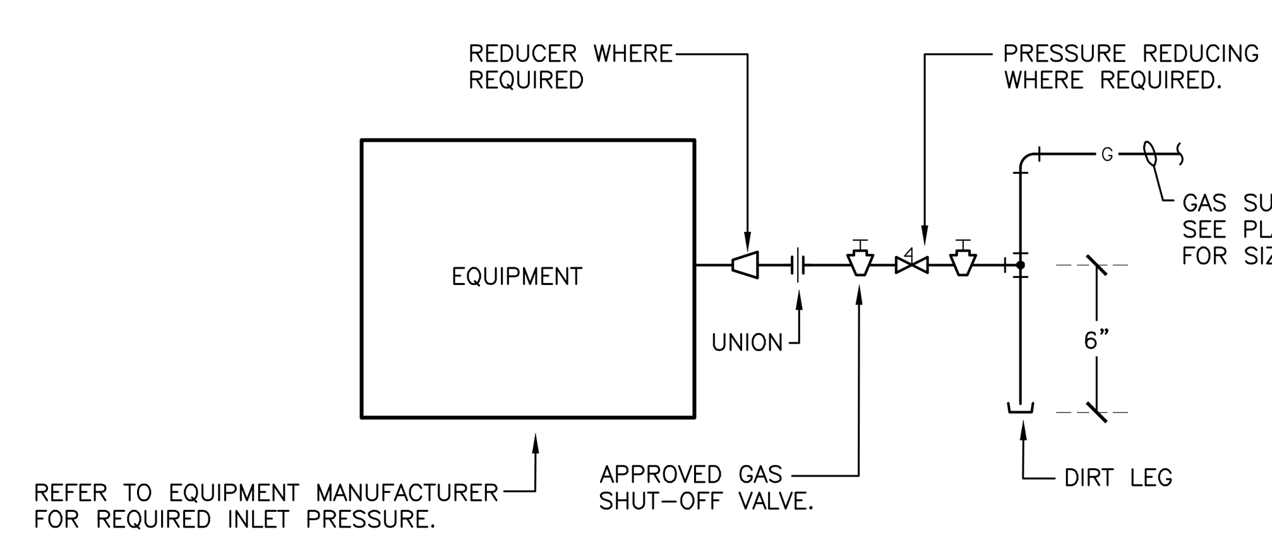


PIPE HANGER SCHEDULE

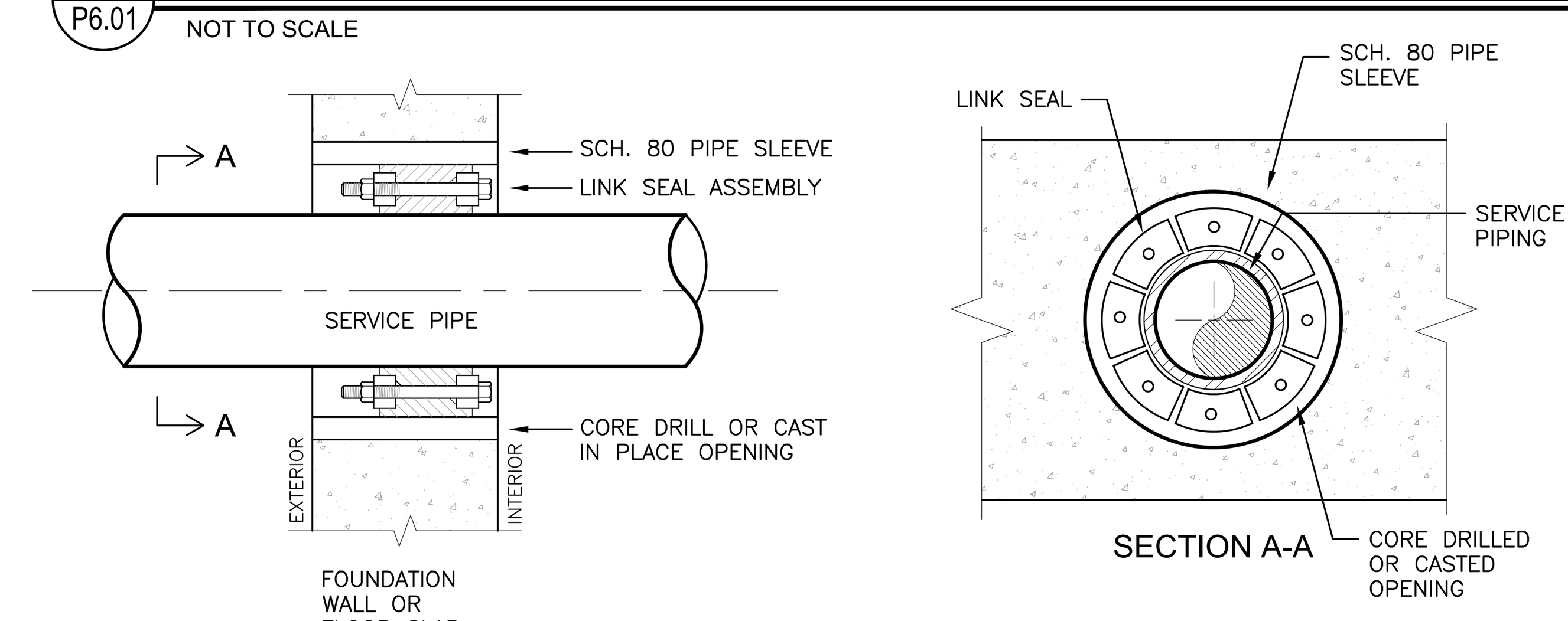
PIPE DIA.	3/4"–2"	2 1/2"–3"	4"–5"	6"	8"–12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON–INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI–ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

5 / P6.01 PIPE HANGER DETAIL
NOT TO SCALE

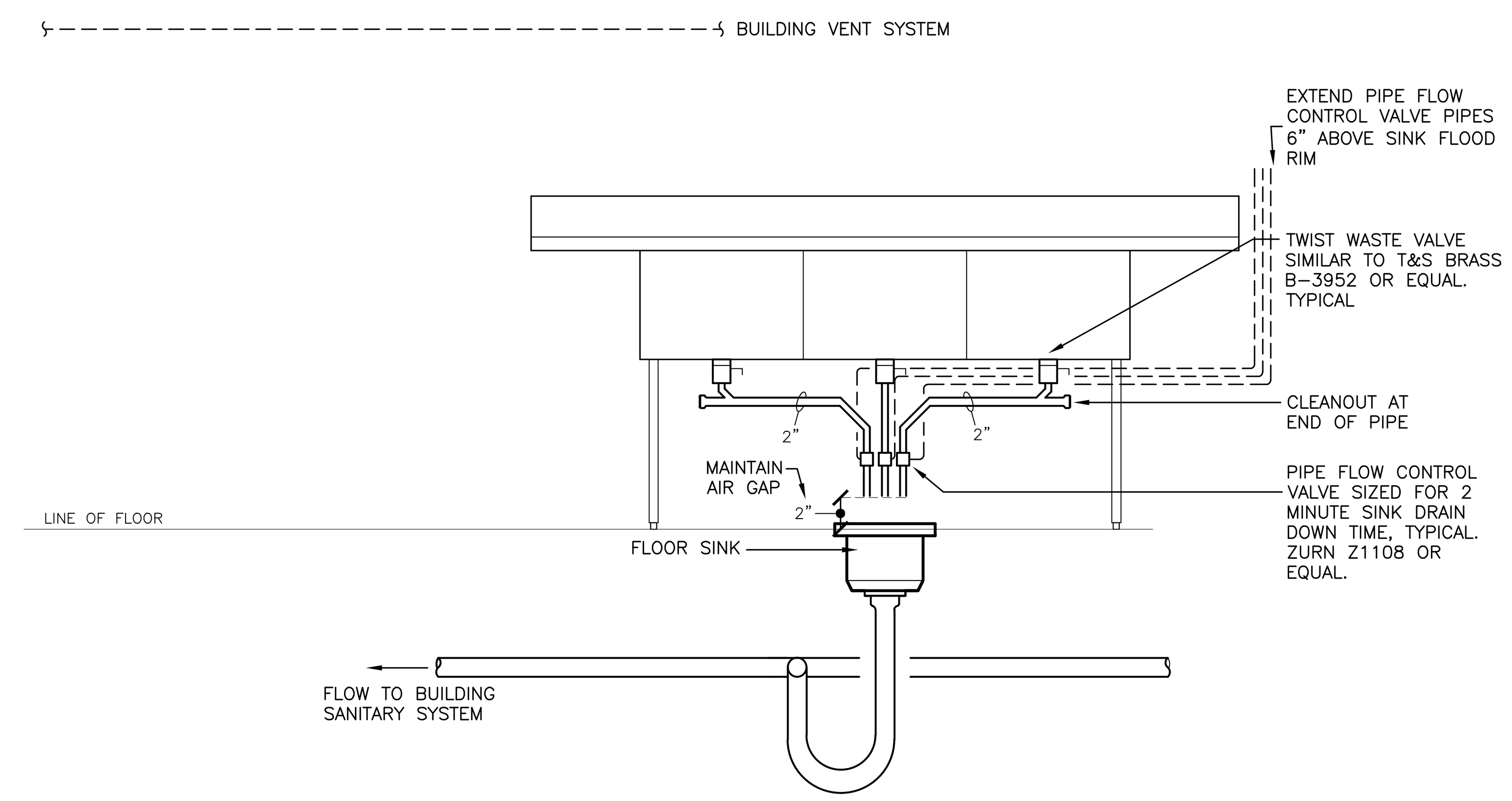


6 / P6.01 GAS PIPING EQUIPMENT CONNECTION DETAIL
NOT TO SCALE



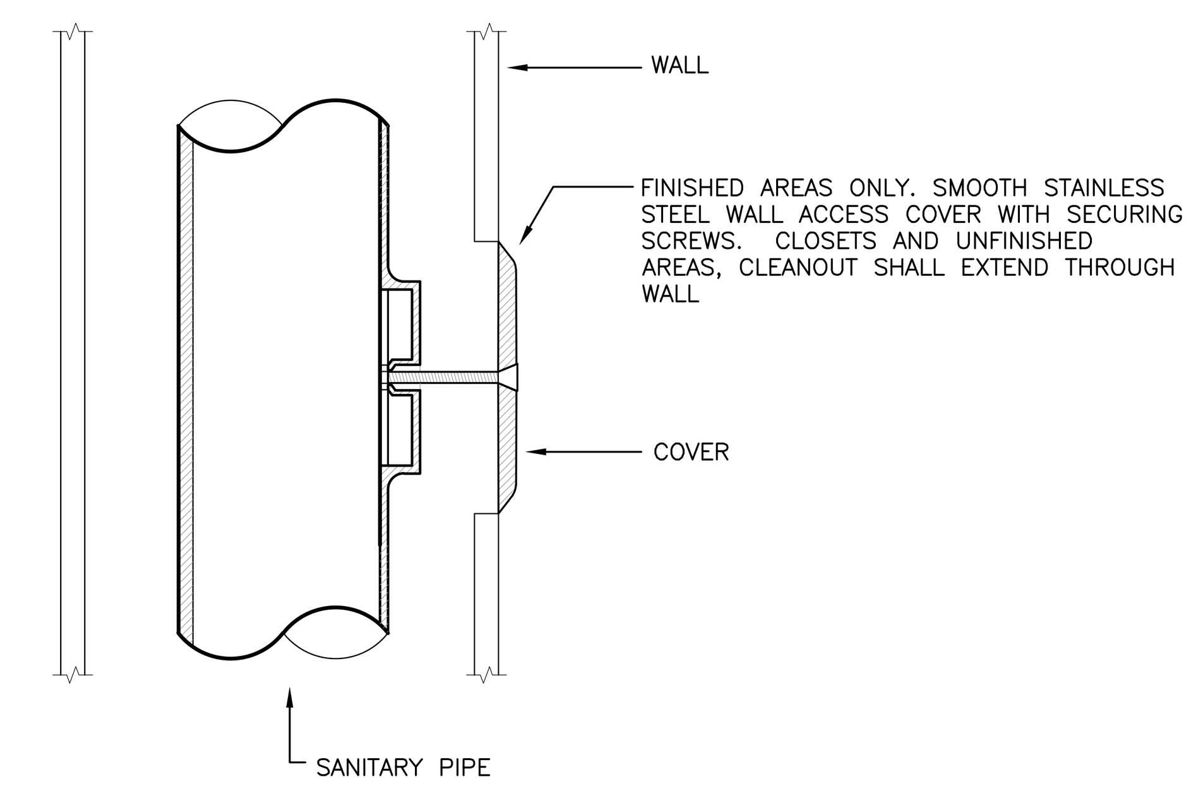
NOTES:
1. SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK–SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2–PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF –40°F TO +250°F.
2. USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE NEW OR EXISTING FOUNDATION WALLS AND SLABS ON GRADE.

7 / P6.01 LINK SEAL DETAIL
NOT TO SCALE

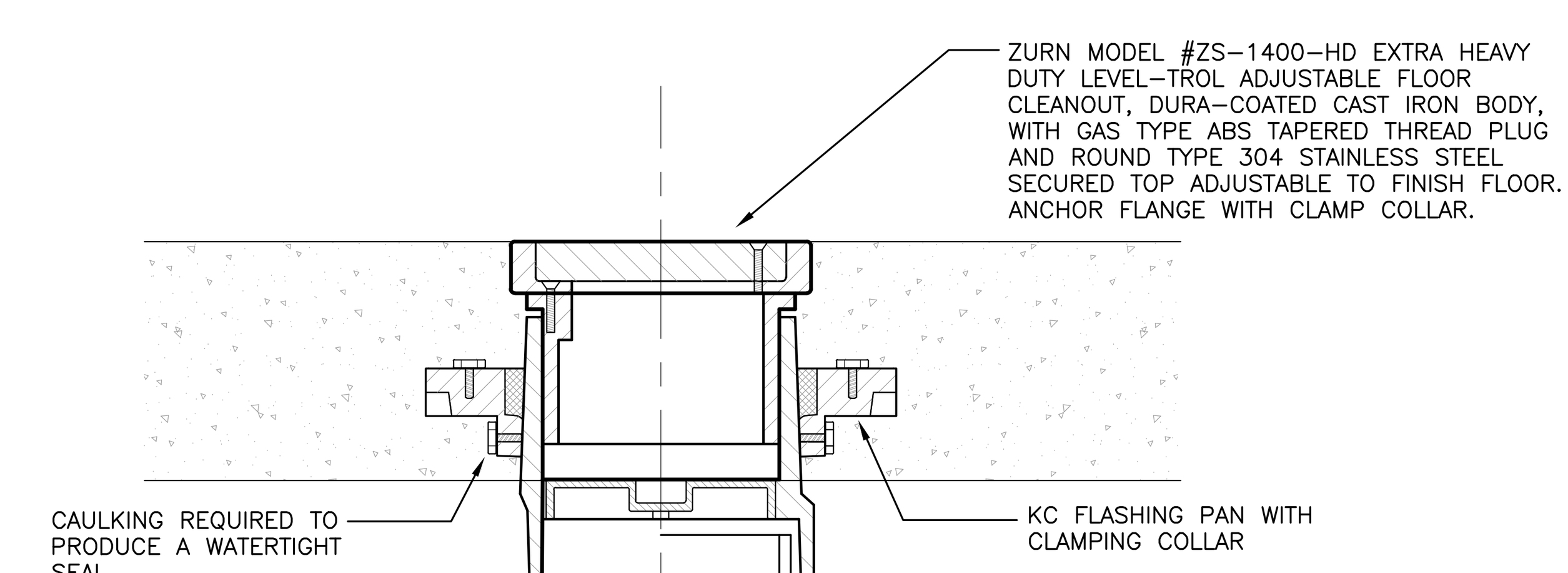


NOTE:
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT PARTICULAR SINK ARRANGEMENT, NUMBER OF SINK DRAINS, FIELD CONDITIONS AND MEET ALL LOCAL CODE REQUIREMENTS. ALL PIPING SHOWN SHALL BE HUBLESS CAST–IRON OR COPPER DWV PIPE, FITTINGS AND CONNECTORS.

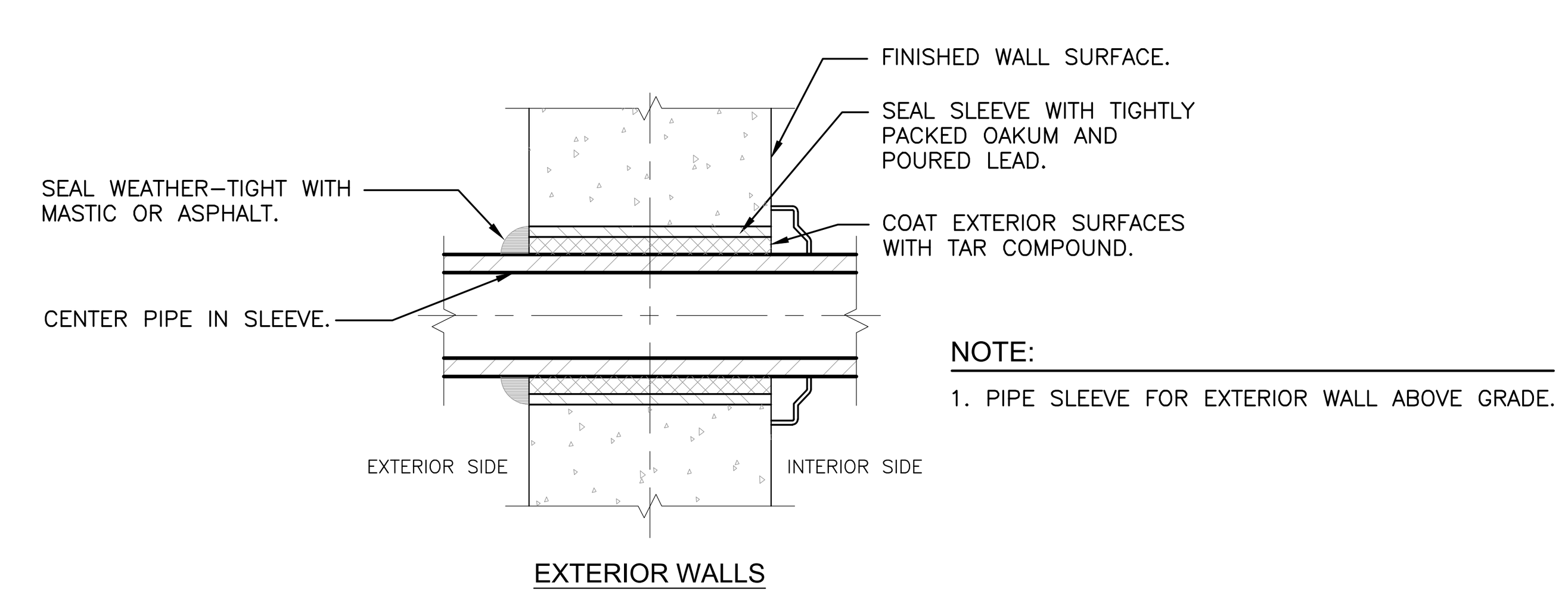
8 / P6.01 INDIRECT DRAINAGE DETAIL
NOT TO SCALE



9 / P6.01 WALL CLEAN OUT DETAIL
NOT TO SCALE



10 / P6.01 FLOOR CLEAN OUT DETAIL
NOT TO SCALE



NOTE:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.

11 / P6.01 EXTERIOR WALL PIPE PENTRATION DETAIL
NOT TO SCALE

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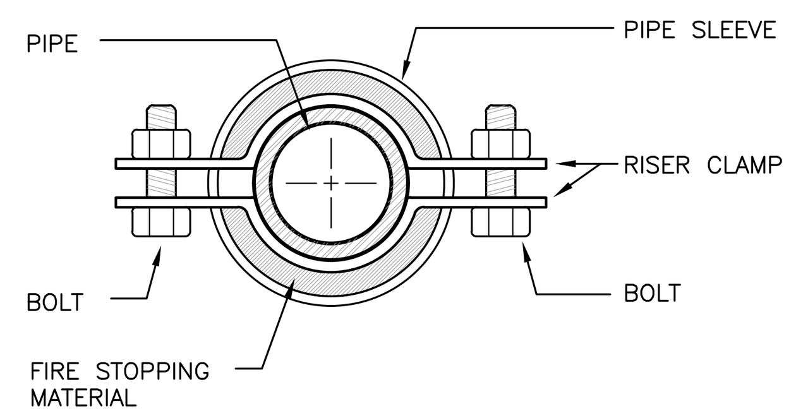
PLUMBING: DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

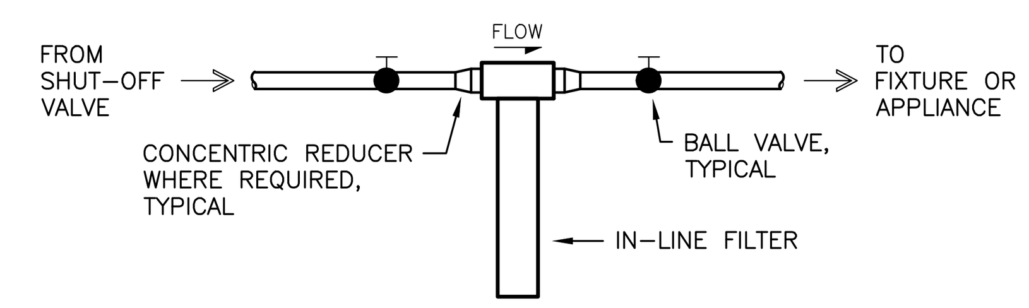
Job No. 4.1552.01
File No. 4155201 P601

P6.01



SUPPORT ANCHOR FOR PIPE RISERS

1 / P6.02 — NOT TO SCALE

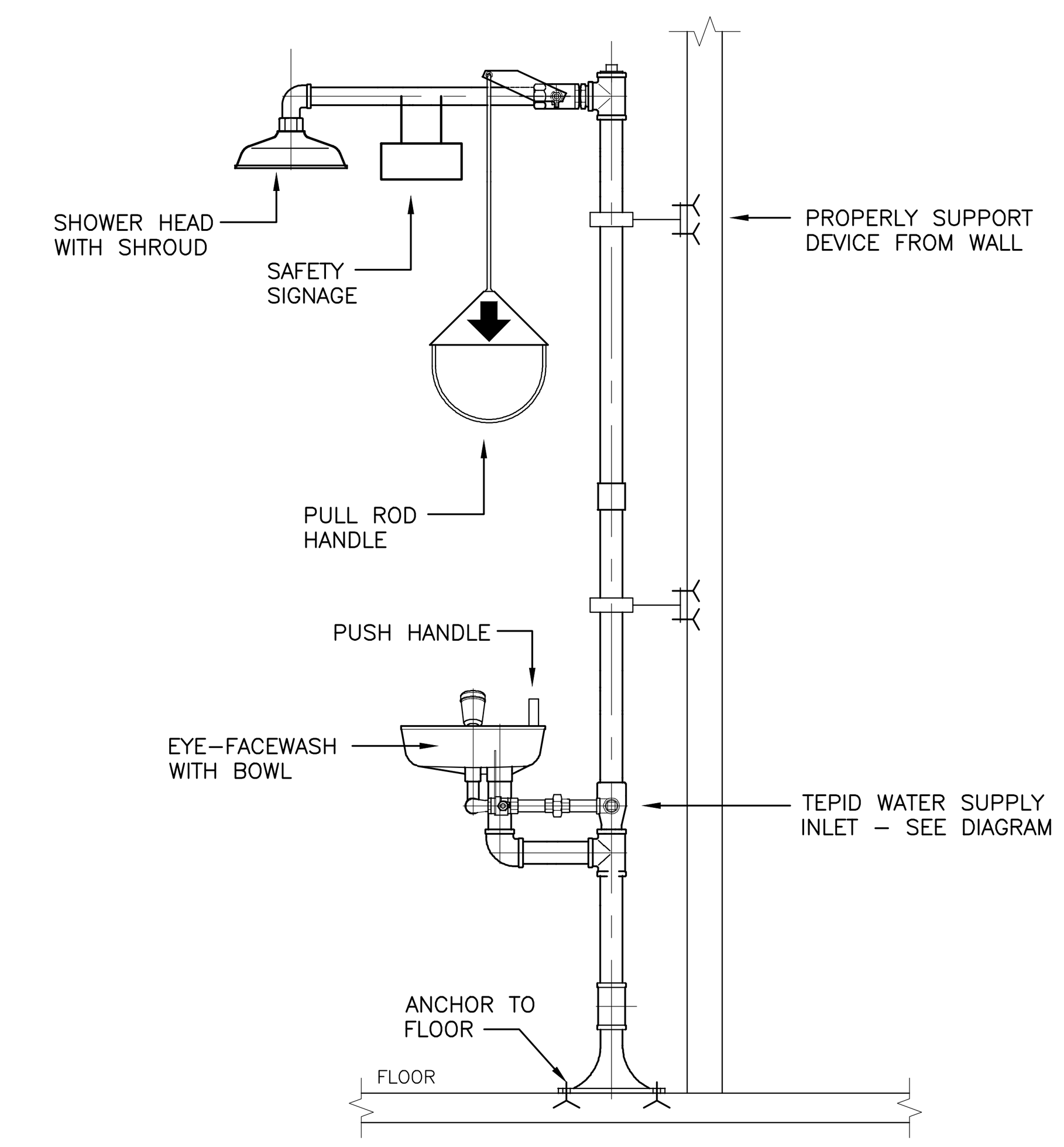


NOTES:

1. DETAIL IS FOR GENERAL ARRANGEMENT.
2. INSTALL FILTER WITH ADEQUATE SERVICE CLEARANCE ON SIDES AND BELOW FOR FILTER REPLACEMENT.
3. IN-LINE FILTERS TO BE INSTALLED IN ALL COLD WATER OR MIXED WATER TEMPERATURE SUPPLIES TO ALL FAUCETS, BUBBLERS, OUTLETS, AND APPLIANCES SHOWN ON DRAWINGS. REFER TO FLOOR PLANS FOR LOCATIONS WHERE IN-LINE FILTERS ARE REQUIRED IN HOT WATER SUPPLIES.
4. ADEQUATELY SUPPORT FILTER TO WALL, FLOOR, FIXTURE OR APPLIANCE. EXTEND/MODIFY EXISTING COLD, HOT, AND MIXED WATER PIPING AS REQUIRED FOR FILTER INSTALLATION.

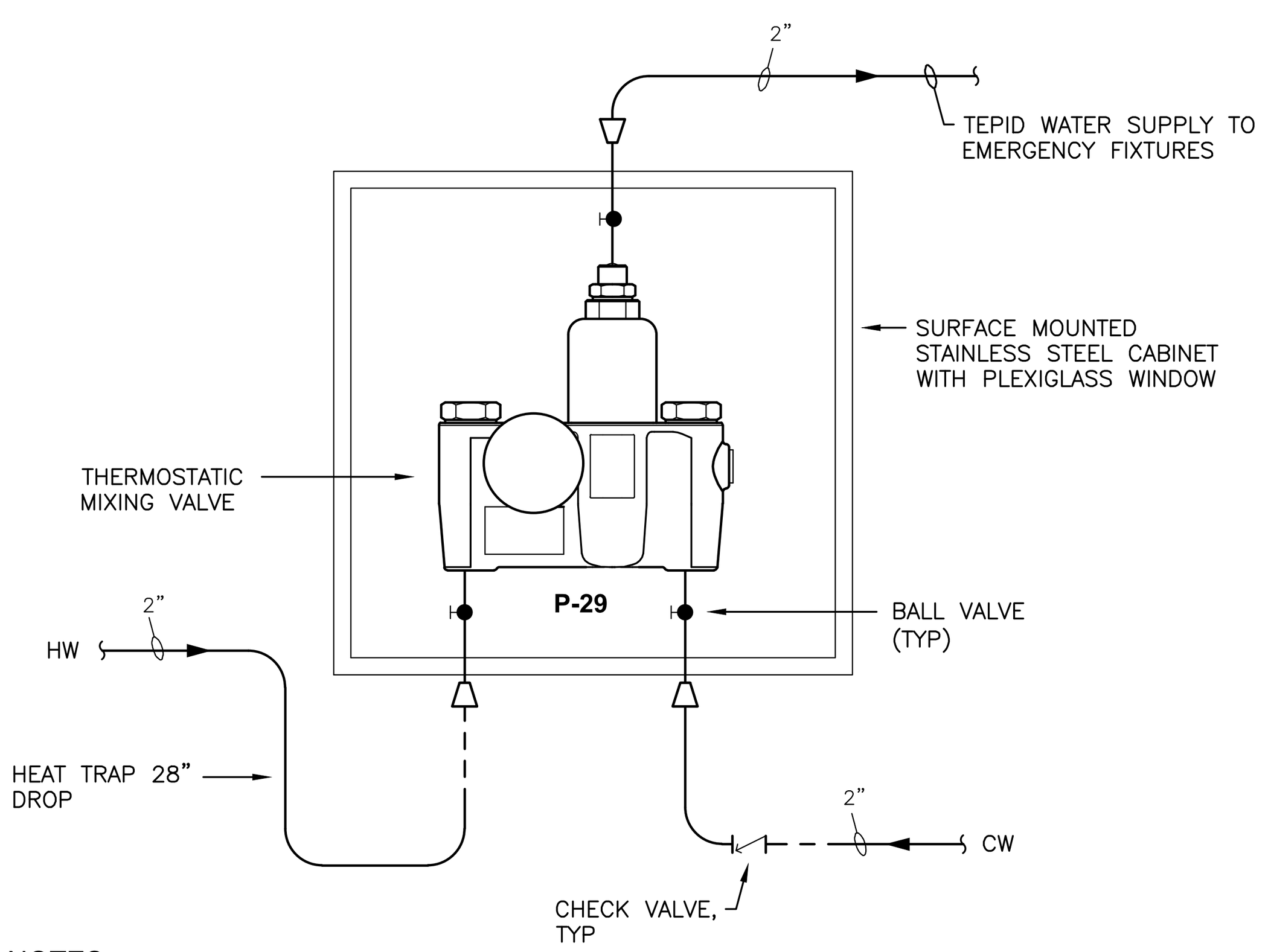
IN-LINE FILTER (P-19) DETAIL

4 / P6.02 — NOT TO SCALE



COMBINATION SHOWER / EYE WASH DETAIL

7 / P6.02 — NOT TO SCALE

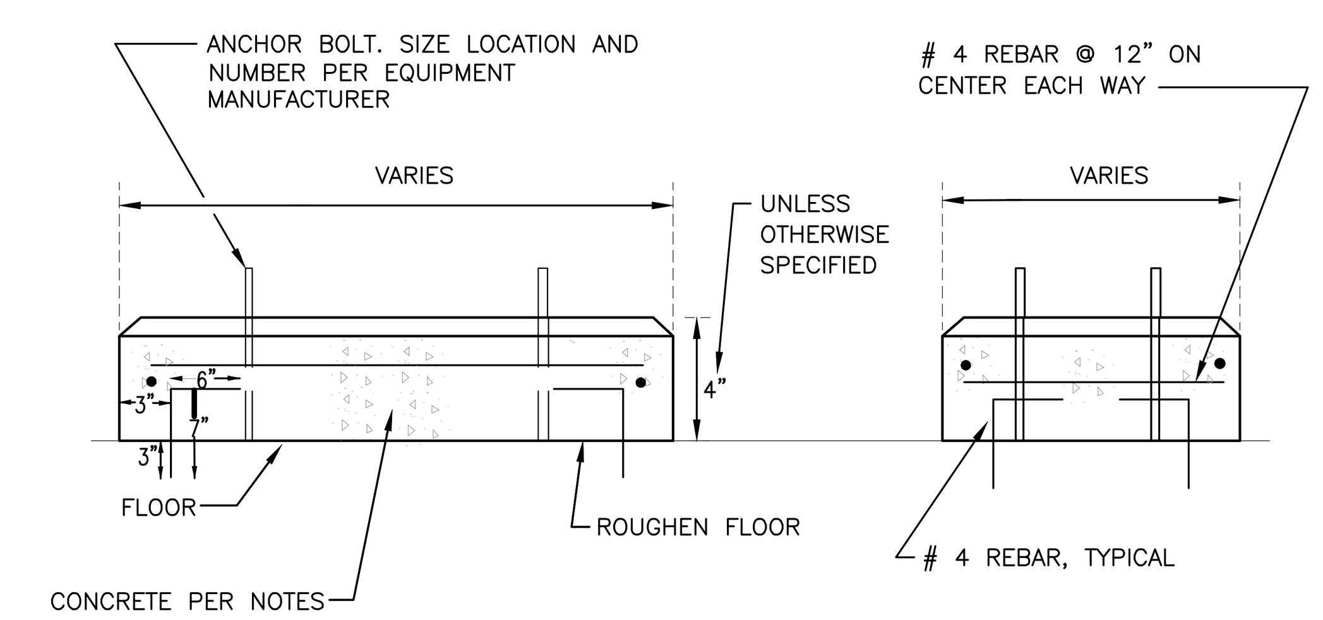


NOTES:

1. BALL VALVES ARE FOR SERVICING MIXING VALVE ONLY. CONTRACTOR SHALL REMOVE VALVE HANDLES WITH THE VALVES IN THE FULL OPEN POSITION. ATTACH VALVE HANDLES TO VALVE BODY.

EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE (P-29) DIAGRAM

2 / P6.02 — NOT TO SCALE

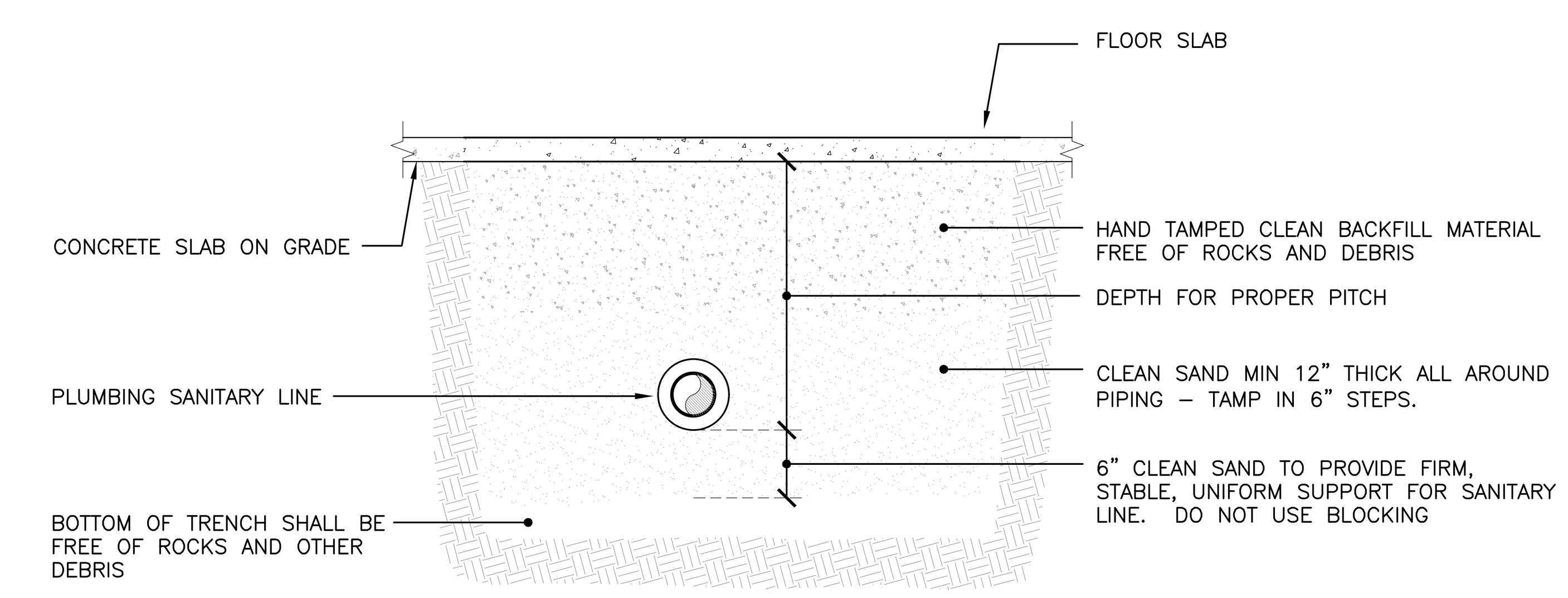


NOTES:

1. EQUIPMENT PAD SHALL EXTEND 4" ALL AROUND OUTSIDE DIMENSION OF EQUIPMENT BASE.
2. DRILL EXISTING SLAB AS REQUIRED TO INSTALL REBAR 3" INTO THE EXISTING SLAB. GROUT REBAR IN THE DRILLED HOLES.
3. THOROUGHLY ROUGHEN AND CLEAN EXISTING CONCRETE SLAB. SATURATE EXISTING CONCRETE SLAB WITH CLEAN WATER. IMMEDIATELY PRIOR TO DEPOSITING CONCRETE FOR PAD, APPLY A COAT OF CEMENT GROUT OVER THE EXISTING DAMP CONCRETE OR ALLOW EXISTING CONCRETE TO DRY AND APPLY BONDING AGENT (ADHESIVE) OVER THE EXISTING CONCRETE IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
4. CONCRETE REQUIREMENTS: COMPRESSIVE STRENGTH SHALL BE MINIMUM OF 4000 PSI, NORMAL WEIGHT, SLUMP BETWEEN 2 AND 4 INCHES AND PROPORTION MIX WITH A MIN. CEMENT CONTENT OF 611 POUNDS PER CUBIC YARD FOR 4000 PSI CONCRETE.

INTERIOR CONCRETE EQUIPMENT PAD DETAIL

5 / P6.02 — NOT TO SCALE

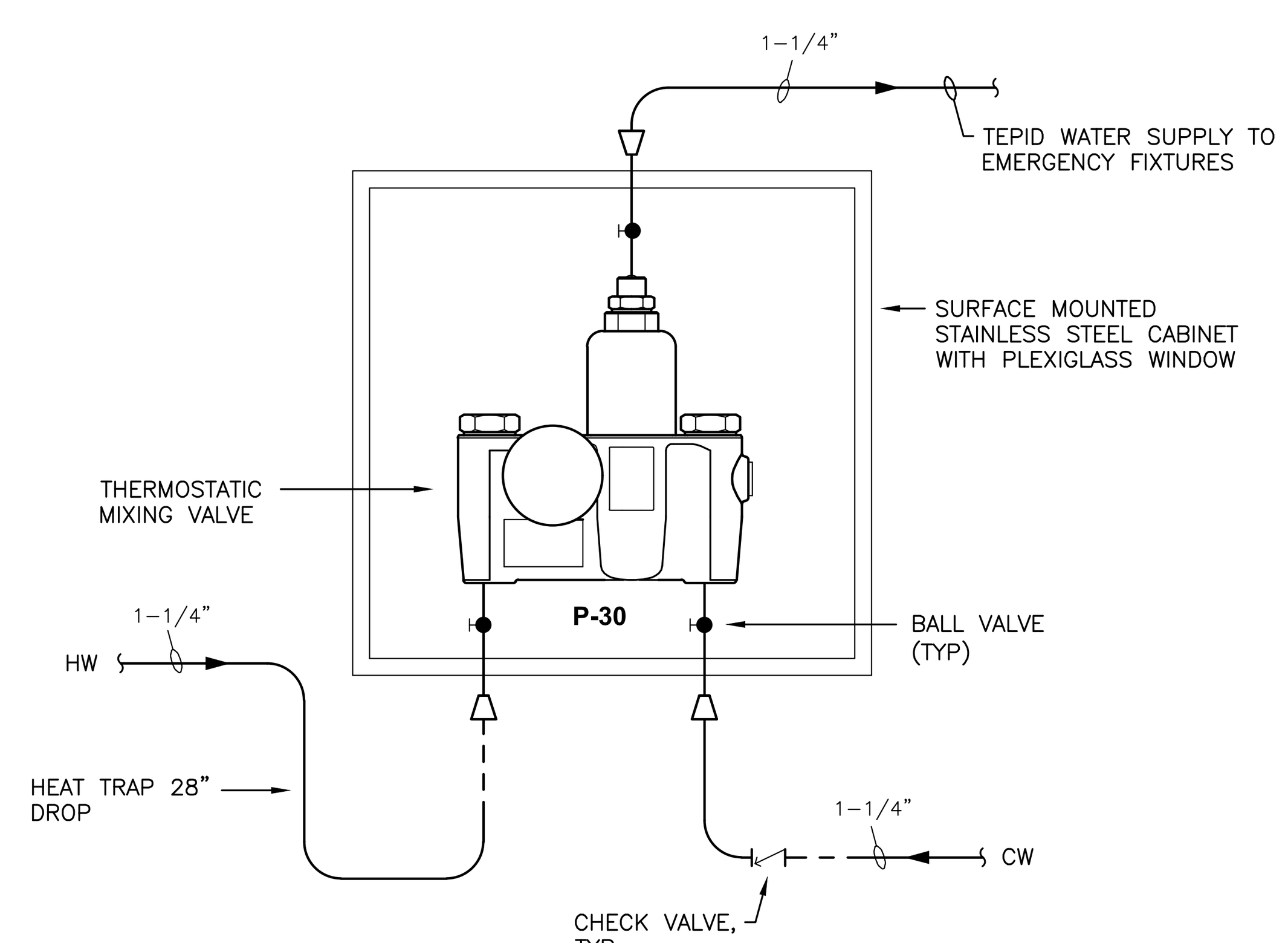


NOTES:

1. ALL TRENCHING, EXCAVATION AND BACKFILL SHALL BE BY GENERAL CONTRACTOR.
2. WHERE SANITARY PIPING IS TO BE ROUTED BELOW EXISTING FLOOR SLAB, THE GENERAL CONTRACTOR SHALL SAW CUT FLOOR SLAB AND PATCH AS REQUIRED. PLUMBING CONTRACTOR TO COORDINATE.

TYPICAL SANITARY LINE BELOW SLAB DETAIL

8 / P6.02 — NOT TO SCALE

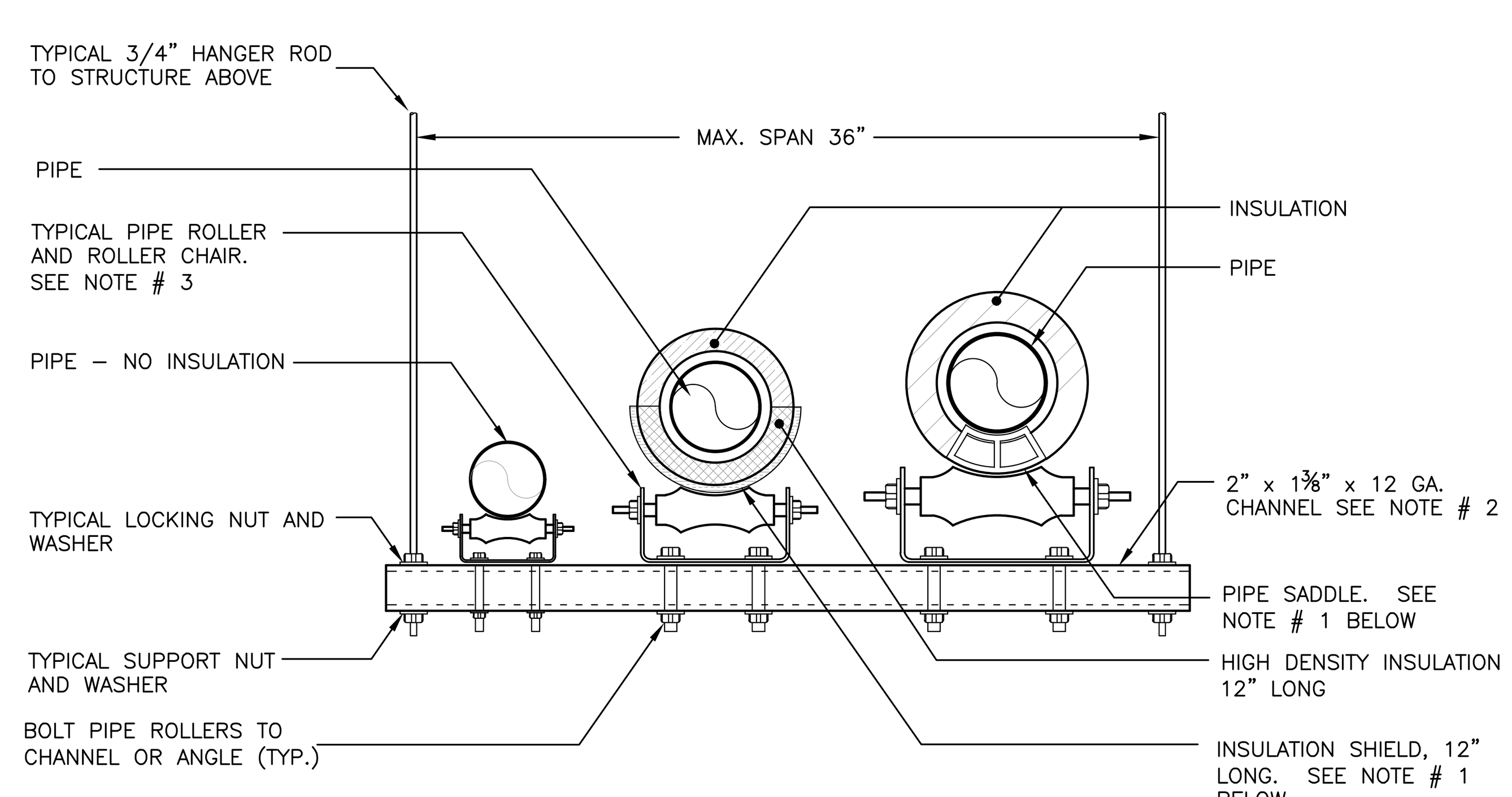


NOTES:

1. BALL VALVES ARE FOR SERVICING MIXING VALVE ONLY. CONTRACTOR SHALL REMOVE VALVE HANDLES WITH THE VALVES IN THE FULL OPEN POSITION. ATTACH VALVE HANDLES TO VALVE BODY.

EMERGENCY FIXTURE THERMOSTATIC MIXINGVALVE (P-30) DIAGRAM

3 / P6.02 — NOT TO SCALE

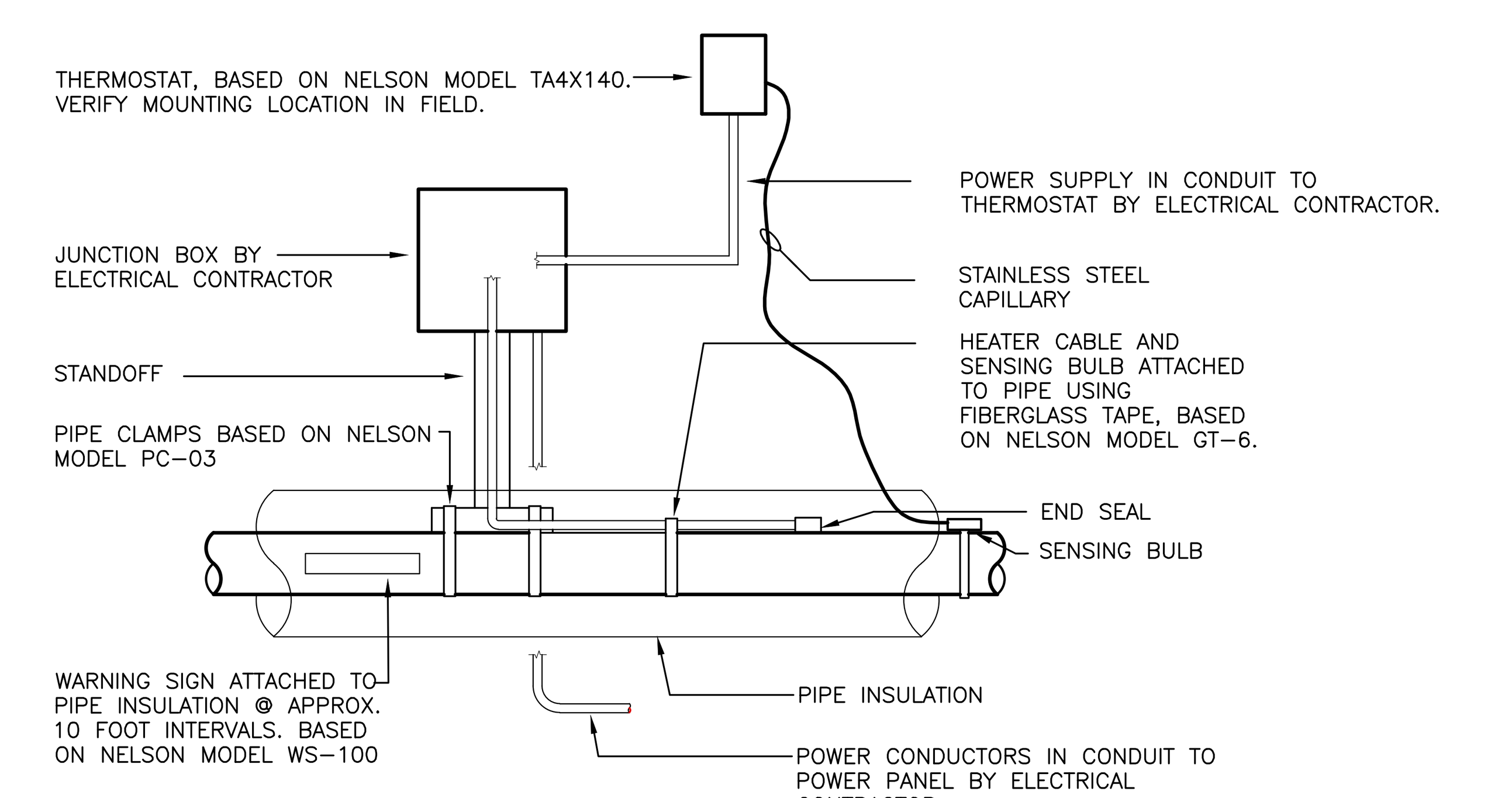


NOTES:

1. PROVIDE INSULATION SHIELD OR PIPE SADDLE BASED ON THE PIPING SYSTEM AND PIPE SIZE AS INDICATED IN THE SPECIFICATIONS.
2. TRAPEZE TYPE HANGER SHALL BE USED FOR A MAXIMUM 1,000 LB UNIFORM LOAD.
3. ELIMINATE PIPE ROLLERS AND ROLLER CHAIRS AT ANCHOR POINTS

TRAPEZE TYPE HANGER INSTALLATION DETAIL

6 / P6.02 — NOT TO SCALE



NOTES:

1. FREEZE PROTECTION ELECTRIC HEAT TRACING FOR ALL SANITARY PUMP PIPING EXPOSED TO AMBIENT CONDITIONS OUTSIDE BREWERY SHALL BE BASED ON NELSON TYPE CLT3 SELF-REGULATING HEATER CABLE. HEATER CABLE PERFORMANCE SHALL BE 3 WATTS PER FOOT AT 120V/1ø. SYSTEM SHALL BE UL LISTED.
2. PROVIDE NELSON MODEL PLT-LPM CONNECTION KIT. CONNECTION KIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. HEATER CABLE, WARNING SIGNS, AND THERMOSTAT SENSING BULB SHALL BE ATTACHED TO PIPE BY ELECTRICAL CONTRACTOR.
3. HEAT TRACING CABLE BASED ON FREEZE PROTECTION TO MAINTAIN TEMPERATURE OF 40°F AT –20°F AMBIENT TEMPERATURE.
4. INSTALL CABLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSTALL ALUMINUM FOIL TAPE CONTINUOUSLY ALONG ENTIRE CABLE LENGTH (ABOVE AND BELOW CABLE). TAPE BASED ON NELSON AT-50.

HEAT TRACE DETAIL

9 / P6.02 — NOT TO SCALE

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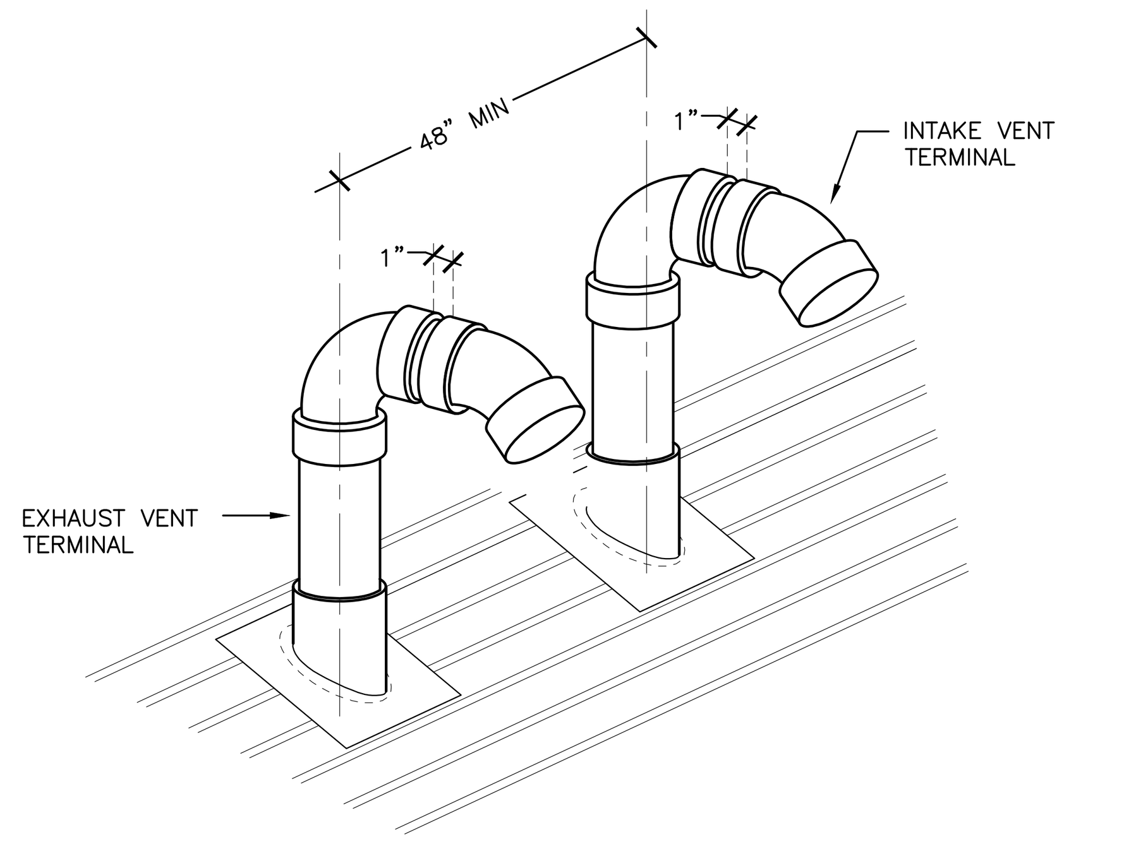
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P602

P6.02

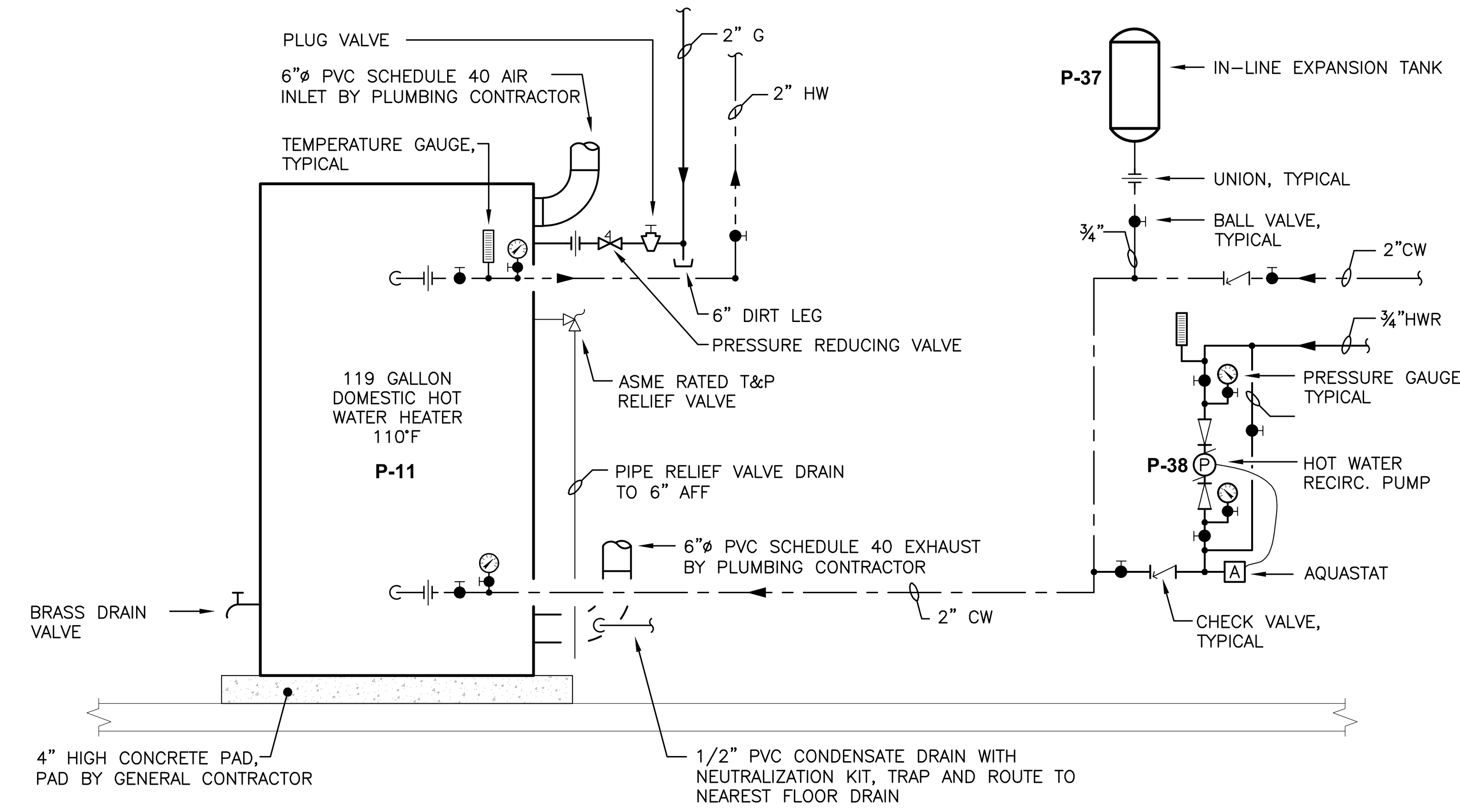


NOTES:

1. THE AIR INTAKE TERMINATION AND THE EXHAUST VENT TERMINATION SHALL EXTEND ABOVE ANTICIPATED SNOW LEVEL OR AT LEAST 24" ABOVE THE ROOF.
2. MUST PROVIDE PROPER SUPPORT FOR ALL PIPES PROTRUDING THROUGH ROOF.
3. THE VERTICAL ROOF TERMINATIONS SHOULD BE SEALED WITH A PLUMBING ROOF BOOT OR EQUIVALENT FLASHING.
4. THE AIR INTAKE TERMINATION AND THE EXHAUST VENT TERMINATION MUST PENETRATE THE SAME SIDE OF ROOF.
5. THE CENTERLINE OF THE AIR INTAKE TERMINATION AND THE CENTERLINE OF THE EXHAUST VENT TERMINATION MUST NOT BE CLOSER TO 48".
6. THE AIR INTAKE TERMINAL AND THE EXHAUST VENT TERMINAL MUST BE ORIENTED FACING DOWNWARD AND THE SAME DIRECTION.
7. SIMILAR LAYOUT FOR SIDEWALL TERMINATION, REFER TO MANUFACTURER'S APPROVED DIAGRAM.

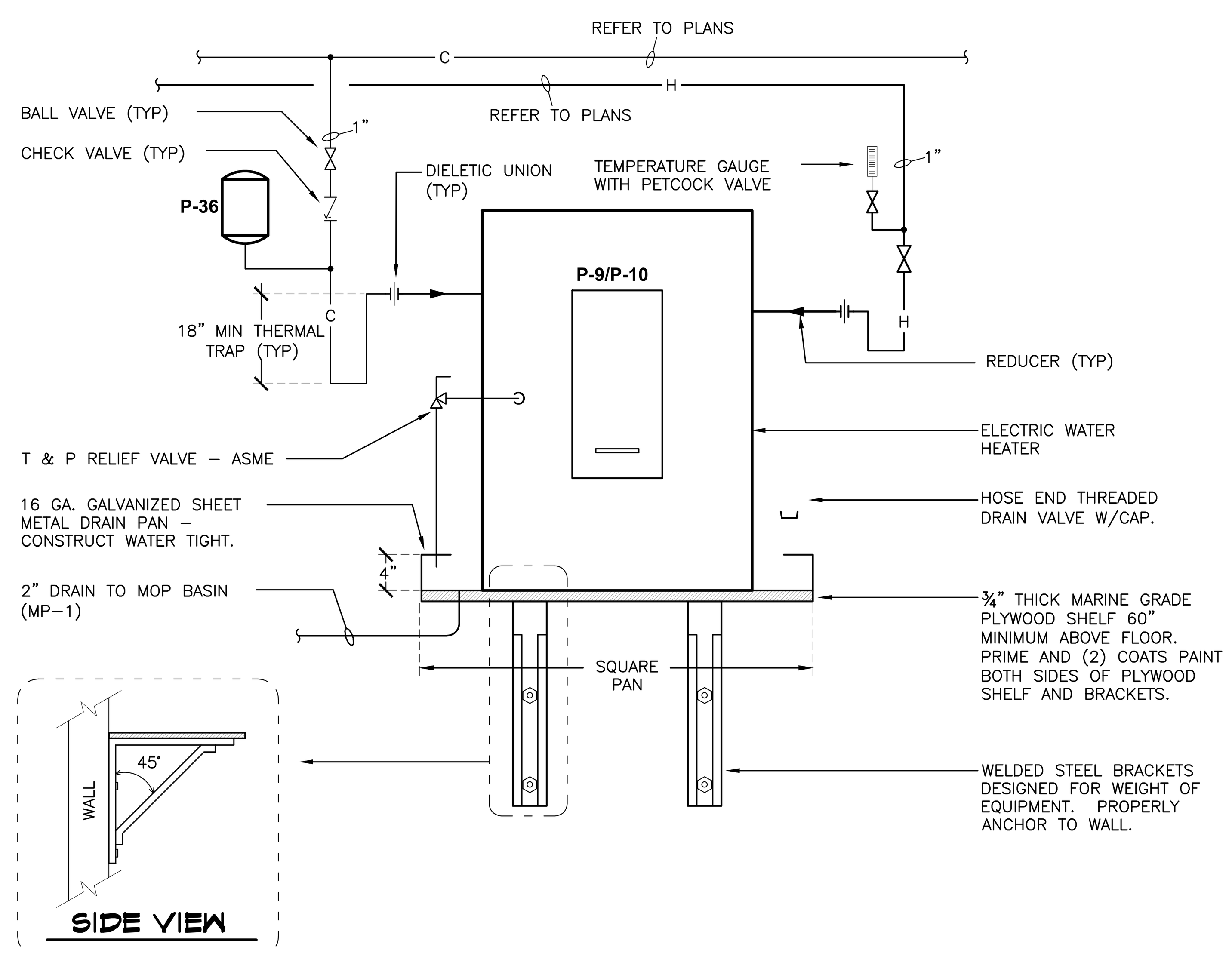
1 P6.03 FLUE PIPING DETAIL

NOT TO SCALE



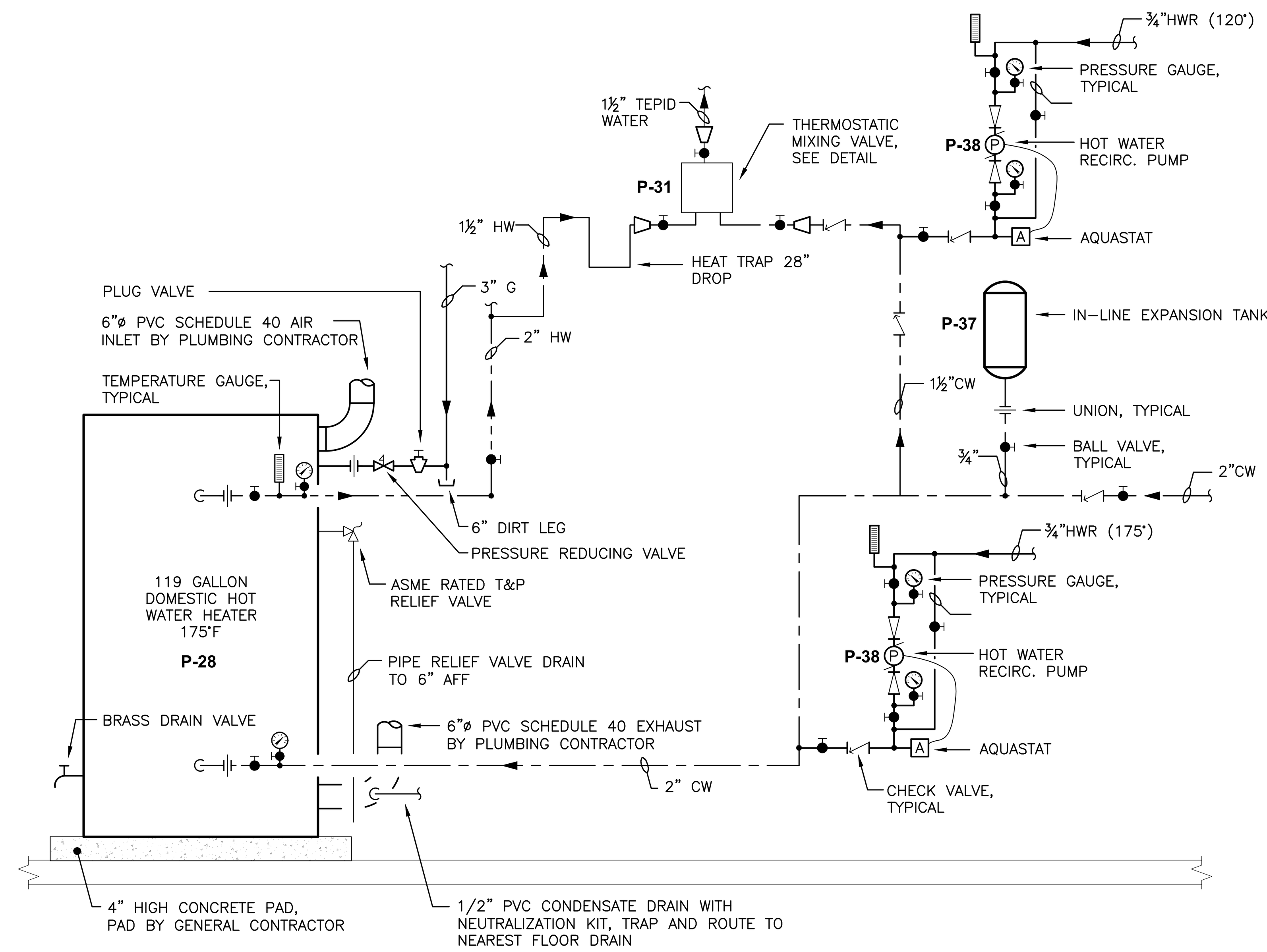
4 P6.03 DOMESTIC HOT WATER HEATER DETAIL (P-11)

NOT TO SCALE



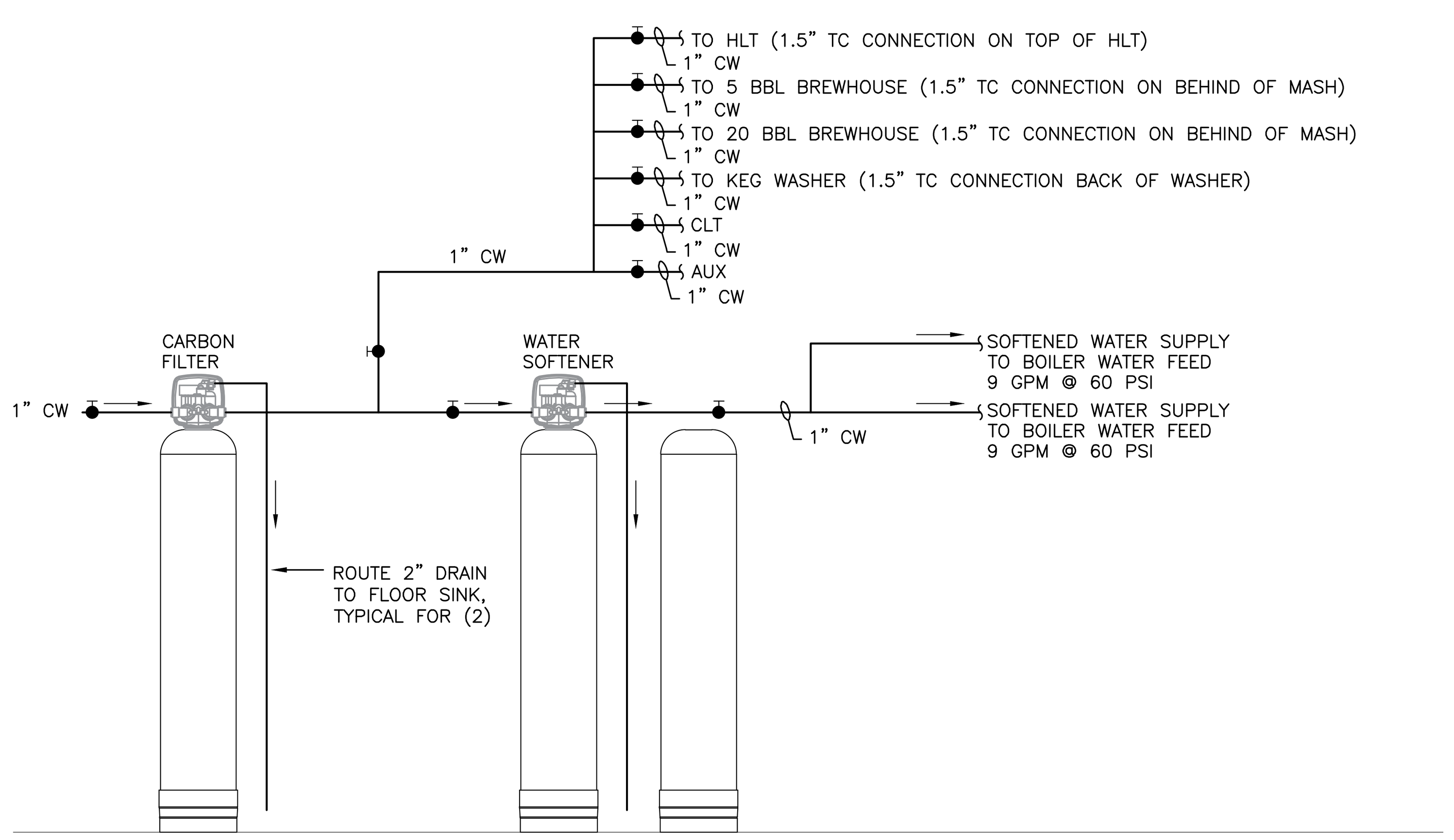
2 P6.03 ELECTRIC WATER HEATER (WH-1) DETAIL

NOT TO SCALE



5 P6.03 DOMESTIC HOT WATER HEATER DETAIL (P-28)

NOT TO SCALE



2 P6.03 WATER FILTRATION DETAIL

NOT TO SCALE

Date	10/15/21
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Revisions:

1 PERMIT SET 10/15/21

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DETAILS

ASPIRE BREWING TAP ROOM & BREWERY

FOR SONNY PATEL BREWING COMPANY, INC.

400/600 NORTH GALLERIA DRIVE LOWER LEVEL

MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P603

P6.03

PLUMBING PIPING FITTING SCHEDULE

SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
WATER PIPE (ABOVE GROUND)	3" AND LESS	COPPER	LEAD–FREE SOLDER ASTM B828	ASTM B 16.22
WATER PIPE (ABOVE GROUND)	4" AND UP	DUCTILE IRON	MECHANICAL OR PUSH–ON	AWWA C110
WATER PIPE (BELOW GROUND)	2½" AND LESS	COPPPER	LEAD FREE SOLDER ASTM B828	ASTM B 16.22
SANITARY AND VENT (ABOVE GROUND)	ALL	SERVICE WEIGHT CAST IRON	NO–HUB ASTM C1277 ASTM C564	ASTM A 74
SANITARY AND VENT (BELOW GROUND)	ALL	EXTRA–HEAVY CAST IRON	HUB AND SPIGOT ASTM C564	ASTM A 74
SANITARY AND VENT (BELOW GROUND SERVING BREWERY)	ALL	TYPE 316L STAINLESS STEEL	PUSH–ON	ASME A 112.3.1
PUMP DISCHARGE	ALL	DUCTILE IRON	THREADED	AWWA C110
GAS PIPING (ABOVE GROUND)	4" AND LESS	MALLEABLE IRON	THREADED OR WELDED	ASTM B 16.3
GAS PIPING (ABOVE GROUND)	6" AND UP	MALLEABLE IRON	WELDED	ASTM B 16.3

PLUMBING PIPING MATERIAL SCHEDULE

SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
WATER PIPE (ABOVE GROUND)	3" AND LESS	COPPER	TYPE L TUBE	ASTM B 88
WATER PIPE (ABOVE GROUND)	4" AND UP	DUCTILE IRON	MECHANICAL OR PUSH–ON	AWWA C151
WATER PIPE (BELOW GROUND)	2½" AND LESS	COPPER	TYPE K SOFT	ASTM B 88
SANITARY AND VENT (ABOVE GROUND)	ALL	CAST IRON	SERVICE WEIGHT	ASTM A 74
SANITARY AND VENT (BELOW GROUND)	ALL	CAST IRON	EXTRA–HEAVY WEIGHT	ASTM A 74
SANITARY AND VENT (BELOW GROUND SERVING BREWERY)	ALL	STAINLESS STEEL	TYPE 316L	ASME A 112.3.1
PUMP DISCHARGE	ALL	DUCTILE IRON	THREADED	AWWA C110
GAS PIPING (ABOVE GROUND)	ALL	BLACK STEEL	SCHEDULE 40	ASTM A 53

PLUMBING PIPE INSULATION SCHEDULE

SERVICE	INSULATION THICKNESS (INCHES) PIPE SIZE (INCHES) BELOW 1½"	1½" AND OVER
COLD WATER	½"	1"
HOT WATER	1"	1½"
HOT WATER RECIRCULATION	1"	1½"
EXTERIOR PUMP DISCHARGE	1"	1"

1. PIPE COVERING SHALL BE FIBERGLASS PIPE INSULATION WITH: FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K–FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50.
2. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC JACKETING OVAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

WATTS WATER HAMMER ARRESTORS

NO. 15 SIZE	FIXTURE UNITS	CROSS REF. PDI STANDARD
1/2" M1	1–11	A
3/4" M1	12–32	B
1" M1	33–60	C
1–1/4" M1	61–113	D
1–1/2" M1	114–154	E
2" M1	155–330	F

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
——	DN.	DOWN		–	HOSE–BIBB
——	GPH	GALLONS PER HOUR		–	WALL HYDRANT
——	GPM	GALLONS PER MINUTE		FD	FLOOR DRAIN
——	TYP.	TYPICAL		PRV	PRESSURE REDUCING VALVE
——	V	VOLTS		°F	DEGREES FAHRENHEIT
——	VTR	VENT THROUGH ROOF		IN	INCHES
—— CW ——	CW	DOMESTIC COLD WATER		PSIG	POUNDS PER SQUARE INCH
—— HW ——	HW	DOMESTIC HOT WATER		H	HEIGHT
—— HWR ——	HWR	DOMESTIC HOT WATER RETURN		W	WIDTH
—— LP ——	G	PROPANE		L	LENGTH
—— S ——	S	SANITARY	ø	DIA	DIAMETER
– – V – –	V	VENT		–	PIPE CAP
	——	PLUG VALVE		MIN	MINIMUM
	——	BALL VALVE		MAX	MAXIMUM
	–	MANUAL AIR VENT		FT^2	SQUARE FEET
	–	THERMOMETER		CO	CLEAN OUT
	–	PRESSURE GAUGE		WCO	WALL CLEAN OUT
	–	UNION	—SD—	SD	STORM DRAIN
	CODP	CLEANOUT DECK PLATE		–	TEE UP
	NEW	NEW WORK		–	TEE DN
	–	ELBOW UP		BFP	BACK FLOW PREVENTION DEVICE
	–	ELBOW DOWN		DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
	–	TRAP		RPZ	REDUCED PRESSURE ZONE

PIPE HANGER SCHEDULE

PIPE SIZE (INCHES)	MAXIMUM HORIZONTAL SPACING (FEET) COPPER TUBE	CAST IRON	STEEL PIPE	PVC PIPE	SINGLE STEEL ROD HANGER SIZE (INCHES) TUBING	PIPING	HANGER TYPE STEEL	MAXIMUM VERTICAL SPACING (FEET) COPPER TUBE	CAST IRON	STEEL PIPE	PVC PIPE
½"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
¾"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
1"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
1¼"	6	5	9 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
1½"	6	5	9 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
2"	10	5	10(5)	4	¼"	⅜"	CLEVIS	10	15	15	10
2½"	10	5	12(5)	4	⅜"	½"	CLEVIS	10	15	15	10
3"	10	5	12(5)	4	⅜"	½"	CLEVIS	10	15	15	10
4"	10	5	12(5)	4	½"	⅝"	CLEVIS	10	15	15	10
5"	10	5	12(5)	4	½"	⅝"	CLEVIS	10	15	15	10
6"	10	5	12(5)	4	½"	¾"	CLEVIS	10	15	15	10
8"	10	5	12(5)	4	⅝"	⅞"	CLEVIS	10	15	15	10
10"	10	5	12(5)	4	⅝"	⅞"	CLEVIS	10	15	15	10
12"	10	5	12(5)	4	⅝"	⅞"	CLEVIS	10	15	15	10

NOTES:

1. MAXIMUM HORIZONTAL SPACING OF CAST–IRON PIPE HANGERS SHALL BE INCREASED TO 10 FEET WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED.
2. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS.
3. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.
4. SUPPORT ALL BRANCH PIPING OVER 5'–0" IN LENGTH.
5. ½" PROPANE PIPING SHALL BE SUPPORTED EVERY 6'–0". ¾" AND 1" PROPANE PIPING SHALL BE SUPPORTED EVERY 8'–0". 1¼" AND LARGER PROPANE PIPING SHALL BE SUPPORTED EVERY 10'–0".
6. SUPPORT VERTICAL PIPING AT EVERY FLOOR.

PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING CODE, NEW YORK STATE FIRE CODE, NEW YORK STATE FUEL GAS CODE, AND NEW YORK STATE BUILDING CODE, NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
2. PLUMBING CONTRACTOR SHALL PROVIDE ALL FIXTURES, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE PLUMBING SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
3. PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS. ROUGHING–IN DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR. SEE ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES.
4. ALL PIPE OPENINGS THROUGH PARTITIONS, FLOORS AND CEILINGS SHALL HAVE PIPE SLEEVES. FOR PIPE PENETRATING FIRE RATED PARTITIONS, CEILINGS AND FLOORS THE CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS WITH HILTI INTUMESCENT FIRE STOP MATERIAL BETWEEN THE PIPE AND SLEEVE TO MAINTAIN FIRE AND SMOKE RATINGS. CT.
5. PLUMBING CONTRACTOR SHALL PITCH ALL SANITARY PIPING UNDER 3" A MINIMUM OF ¼" PER FOOT. SANITARY PIPING 3" AND ABOVE MAY BE PITCHED A MINIMUM OF ⅛" PER FOOT. ALL SANITARY PIPING UPSTREAM OF A GREASE INTERCEPTOR SHALL BE PITCHED A MINIMUM OF ¼" PER FOOT.
6. PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
7. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, PIPING, INSULATION, VALVES AND PLUMBING FIXTURES TO OWNER AND ARCHITECT FOR APPROVAL. DEMONSTRATE NEW PLUMBING SYSTEMS TO OWNERS AND REVIEW MAINTENANCE PROCEDURES.
8. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS.
9. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS, CEILINGS AND UNDER VANITIES.
10. PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION ENVELOPE.
11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) AND (120V) FOR SYSTEMS SHOWN ON PLUMBING DRAWINGS AND TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (LATEST ADOPTED ADDITION) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION. 120V/1 – MINIMUM CONDUCTOR SIZE # 12. 24V – MINIMUM CONDUCTOR SIZE # 18.
13. PLUMBING CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
14. WHERE REQUIRED PLUMBING CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE INSTALLED BY GENERAL CONTRACTOR.
15. PLUMBING CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT, OR STRUCTURAL ENGINEER.
16. PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL DOMESTIC HOT, COLD, AND HOT WATER RECIRCULATION PIPING.
17. ALL DOMESTIC WATER PIPING CONNECTIONS TO PLUMBING EQUIPMENT SHALL BE COPPER TYPE "L".
18. ALL PIPES ARE TO BE SUPPORTED FROM STRUCTURE, NOT FROM EXISTING PIPING OR DUCTWORK.
19. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING SYSTEMS AS REQUIRED FOR COMPLETION OF WORK.
20. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
21. ALL PROPANE PIPING AND EQUIPMENT INSTALLATIONS SHALL BE AS PER THE NEW YORK STATE FUEL GAS CODE AND NFPA 54.
22. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, HOT WATER, COMPRESSED AIR, LUBRICATION LINES, AND PROPANE SUPPLY PIPES.
23. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED.
24. A CLEANOUT SHALL BE LOCATED AT ALL CHANGES IN DIRECTION AND AT THE BASE OF EACH STACK AND LEADER.
25. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
26. FIXTURE (GENERAL):
    A. FIXTURE SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES, 17 GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS CHROME PLATED ESCUTCHEONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VANDLEPROOF.
    B. EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS. CHROME PLATED CAST BRASS 'P' TRAPS WITH SCREW PLUG CLEANOUT, SLIP–JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME PLATED BRASS NIPPLE AT WALL WITH CHROME PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140° SWING LIMIT STOPS.
    C. SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN.
27. PIPE TESTING:
    A. UPON COMPLETION OF THE ENTIRE SANITARY DRAIN, STORM DRAIN, AND VENT SYSTEM, THE CONTRACTOR SHALL PERFORM AN AIR TEST WITNESSED BY AUTHORITY HAVING JURISDICTION. AIR SHALL BE FORCED INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A 10 INCH COLUMN OF MERCURY. THIS TEST SHALL BE HELD FOR A PERIOD OF AT LEAST 15 MINUTES.
    B. WATER SUPPLY SYSTEM TEST SHALL BE DONE ON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM. THE SYSTEM, OR THE PORTION COMPLETED, SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM: OR, BY AN AIR TEST OF NOT LESS THAN 50 PSI. TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 15 MINUTES. THE WATER UTILIZED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.
    C. PROPANE DISTRIBUTION PIPING SHALL COMPLY WITH THE FOLLOWING:
        1. TEST MEDIUM SHALL BE AIR, NITROGEN, CARBON DIOXIDE, OR AN INERT GAS. OXYGEN SHALL NOT BE USED.
        2. ABOVE GROUND PIPING SYSTEMS WITH WORKING PRESSURE UP TO ½ PSIG SHALL BE TESTED AT A PRESSURE OF 3 PSIG FOR A DURATION OF ½ HOUR FOR EACH 500 CUBIC FEET OF PIPE VOLUME BUT SHALL NOT BE LESS THAN 30 MINUTES.
    D. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL TESTING REQUIREMENTS.
28. DOMESTIC WATER PIPING DISINFECTION:
    A. ALL OPEN ENDS OF PIPING, VALVES AND EQUIPMENT SHALL BE PLUGGED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED, TO MINIMIZE ACCUMULATION OF DIRT AND DEBRIS.
    B. THE PLUMBING CONTRACTOR SHALL DISINFECT WATER PIPING BEFORE IT IS PLACED IN SERVICE.
    C. THE PLUMBING CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS NECESSARY TO DO THE WORK OF DISINFECTING, AND SHALL PERFORM THE WORK IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW.
    D. SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND THE SYSTEM OR PART THEREOF SHALL BE ALLOWED TO STAND FOR 24 HOURS.
    E. DURING THE DISINFECTION PERIOD, CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF WATER IN THE STREET MAIN OR THE ACTIVE WATER PIPING WITHIN THE BUILDING.
    F. FOLLOWING REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
29. PIPING AND EQUIPMENT IDENTIFICATION:
    A. PLUMBING CONTRACTOR TO PROVIDE OPTI–CODE LABELS FOR ALL NEW PIPING. LABELS SHALL INDICATE SERVICE AND FLOW DIRECTION. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABELS SHALL BE APPLIED OVER INSULATION ONLY.
    B. VALVE SERVICE IDENTIFICATION TAGS: NUMBER 19 B&S GAGE BRASS, WITH 1/4" HIGH VALVE SERVICE ABBREVIATED LETTERING ON ONE LINE OVER 1/2" HIGH VALVE SERVICE CHART NUMBER, BOTH DEEP STAMPED AND BLACK FILLED; AND WITH 3/16" TOP HOLE FOR BRASS "S" HOOK OR BRASS JACK CHAIN FASTENER.
    C. PROVIDE VALVE SERVICE IDENTIFICATION CHART MOUNTED IN LOCATION COORDINATED WITH OWNER'S REPRESENTATIVE. FRAME SHALL BE SATIN FINISHED EXTRUDED ALUMINUM WITH RIGID CLEAR PLASTIC GLAZING, SIZE TO FIT 8–1/2" x 11" VALVE CHART.
    D. EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO ALL NEW EQUIPMENT.
30. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START–UP OF ALL EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
31. PLUMBING CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS–BUILT) DRAWINGS OF ALL COMPLETED WORK.
32. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK.
33. ALL HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
34. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR, THIS CONTRACTOR SHALL COORDINATE.

Date	10/15/21
Checked	SZ
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Revisions:

1 PERMIT SET 10/15/21

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PLUMBING:
EQUIPMENT SCHEDULES
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 P701

P7.01

PLUMBING EQUIPMENT SCHEDULE

TAG	SYMBOLS		PLUMBING CONNECTIONS					MANUFACTURER	CATALOG #	DESCRIPTION
	PLAN	ELEVATION	SAN./STORM	VENT	COLD	HOT	GAS			
P-1 P-1A			3"	1½"	1"	–	–	AMERICAN STANDARD	2257.101	WALL–MOUNTED, VITREOUS CHINA, ELONGATED BOWL, FLUSHOMETER TOILET WITH CONCEALED TRAPWAY, DIRECT–FED SIPHON JET ACTION, AND 1–1/2" TOP SPUD. FIXTURE COLOR SHALL BE WHITE. PROVIDE COMMERCIAL HEAVY DUTY PLASTIC TOILET SEAT, CHURCH MODEL 2155CT AND FLOOR MOUNTED VERTICAL ADJUSTABLE CLOSET CARRIERS. FIXTURE, P–1A, IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
								SLOAN	8111–1.28	EXPOSED, BATTERY POWERED, SENSOR OPERATED WATER CLOSET FLUSHOMETER. HIGH EFFICIENCY, 1.28 GALLONS PER FLUSH.
P-2			2"	1½"	¾"	–	–	AMERICAN STANDARD	6561.017	WALL–MOUNTED, VITREOUS CHINA, LOW CONSUMPTION, SIPHON JET ACTION URINAL WITH FLUSHING RIM, EXTENDED SIDES FOR PRIVACY AND ¾" TOP SPUD INLET. FIXTURE COLOR SHALL BE WHITE. PROVIDE FLOOR MOUNTED URINAL CARRIER WITH BEARING PLATE. URINAL SHALL BE ADA COMPLIANT. FIXTURE, P–2A, IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
								SLOAN	8186–0.5	EXPOSED, BATTERY POWERED, SENSOR OPERATED URINAL FLUSHOMETER. LOW CONSUMPTION, 0.5 GALLONS PER FLUSH. FLISHOMETER SHALL BE ADA COMPLIANT.
P-3			1¼"	1¼"	½"	½"	–	AMERICAN STANDARD	0355.012	WALL–HUNG, VITREOUS CHINA, D–SHAPED BOWL LAVATORY WITH FRONT OVERFLOW, CONCEALED ARM SUPPORTS, FAUCET LEDGE, AND SELF–DRAINING DECK AREA. FIXTURE COLOR SHALL BE WHITE. PROVIDE CONCEALED ARM SUPPORTS, OFFSET LAVATORY GRID STRAINER (MCGUIRE MANUFACTURING PART NUMBER 155WC) AND TRUEBRO MODEL 103 E–Z LAV GUARD. FIXTURE, P–3A, IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
								T&S BRASS	EC–3104–VF5–TMV	BATTERY POWERED, POLISHED CHROME PLATED, LEAD FREE, SENSOR FAUCET WITH: 0.5 GPM VANDAL–RESISTANT LAMINAR FLOW, THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECK VALVES, 18" FLEXIBLE STAINLESS STEEL SUPPLY HOSES WITH COMPRESSION CONNECTIONS, LOW BATTERY LED INDICATOR LIGHT, AND WATER RESISTANT CONTROL MODULE WITH INTERNAL FLOW CONTROL SWITCHES FOR ADJUSTING AUTO TIME OUT AND SHUT–OFF DELAY SETTINGS.
P-4			3"	1½"	–	–	–	JAY R SMITH	2005Y(B)	FLOOR DRAIN WITH DUCO CAST IRON BODY, FLASHING COLLAR, VANDAL PROOF SCREWS AND 6"x6" SQUARE ADJUSTABLE STRAINER HEAD. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP SEALS.
P-5			1¼"	1¼"	½"	½"	–	AMERICAN STANDARD	0552.000	ABOVE COUNTER, FIRE CLAY, RECTANGULAR–SHAPED BOWL LAVATORY. FIXTURE COLOR SHALL BE WHITE. PROVIDE OFFSET LAVATORY GRID STRAINER (MCGUIRE MANUFACTURING PART NUMBER 155WC) AND TRUEBRO MODEL 103 E–Z LAV GUARD. FIXTURE IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
								KOHLER	T–23475–4N	SINGLE–HANDLE BATHROOM FAUCET WITH MATTE BLACK FINISH. FAUCET SHALL BE ADA COMPLIANT. HAVE 8" SPOUT HEIGHT WITH 5⅜" SPOUT REACH AND HAVE CERAMIC DISC VALVES. 0.5 GPM MAX FLOWRATE.
P-6			1½"	1½"	½"	–	–	ELKAY	LZSTL8WSLP	BOTTLE FILLING STATION WITH BI–LEVEL FILTERED ELECTRIC WATER COOLER. CHILLING CAPACITY OF 8 GALLONS PER HOUR OF 50°F DRINKING WATER AT 90°F AMBIENT. ELECTRICAL: 115V/60Hz., 5.0 FULL LOAD AMPS, 370 WATTS. ADA COMPLIANT, NSF 61 AND 372 CERTIFIED. UNIT SHALL MEET FEDERAL AND STATE LOW–LEAD REQUIREMENTS.
P-7			1½"	1½"	½"	½"	–	ELKAY	LRAD252155	TYPE 304 STAINLESS STEEL, TOP MOUNT, SINGLE BOWL, ADA COMPLIANT SINK. OVERALL DIMENSIONS 25"Lx21–1/4"W BY 5–1/2"DEEP. 3 FAUCET HOLES ON 4" CENTERS, OFF–CENTERED READ DRAIN OPENING LOCATION. EXPOSED SURFACES SHALL HAVE SATIN FINISH. FULLY UNDERCOATED TO DAMPEN SOUND AND PREVENT CONDENSATION. PROVIDE ELKAY LKVR18B STAINLESS STEEL VANDAL–RESISTANT GRID STRAINER AND TRUEBRO MODEL 103 E–Z LAV GUARD IN ADA LOCATIONS
								FISHER	59331	STAINLESS STEEL WIDESPREAD FAUCET, 8" CENTERS, WITH 8" SWING SPOUT AND 4" WRIST BLADE HANDLES. FAUCET SHALL BE LEAD FREE, ADA COMPLIANT AND NSF–61 LISTED AND APPROVED. FLOW RATE 2.2 GPM.
P-8			3"	1½"	½"	½"	–	FIAT	MSBID2424	MOLDED STONE MOP SERVICE BASIN, 24"x24"x10", WITH INTEGRAL DRAIN. FIXTURE SHALL BE COMPLETE WITH: STAINLESS STEEL STRAINER, HOSE AND HOSE BRACKET, MOP HANGER, VINYL BUMPERGUARD, AND STAINLESS STEEL WALL GUARDS.
								FIAT	830–AA	CHROME PLATED SERVICE SINK FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND ¾" HOSE THREAD ON SPOUT.
P-9			–	–	1"	1"	–	AO SMITH	DEL–30	ELECTRIC WATER HEATER, DUAL 6000 WATT ELEMENTS NON–SIMULTANEOUS OPERATION, STORAGE CAPACITY 30 GALLONS, RECOVERY 34 GPH @ 72°F RISE WITH METAL DRAIN PAN 1 ½" DEEP MINIMUM. 6–YEAR TANK & PARTS WARRANTY ENERGY FACTOR .95 – 208V/1. PROVIDE DRAIN VALVE AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE.
P-10			–	–	1"	1"	–	AO SMITH	DEL–50	ELECTRIC WATER HEATER, DUAL 6000 WATT ELEMENTS NON–SIMULTANEOUS OPERATION, STORAGE CAPACITY 50 GALLONS, RECOVERY 34 GPH @ 72°F RISE WITH METAL DRAIN PAN 1 ½" DEEP MINIMUM. 6–YEAR TANK & PARTS WARRANTY ENERGY FACTOR .95 – 208V/1. PROVIDE DRAIN VALVE AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE.
P-11			½"	–	2"	2"	2"	AO SMITH	BTH–300A	ASME CONSTRUCTED, POWER DIRECT VENTING, NATURAL GAS HOT WATER HEATER WITH 96% THERMAL EFFICIENCY WITH STORAGE CAPACITY OF 119 GALLONS; AN INPUT RATING OF 300,000 BTUH, A RECOVERY RATING OF 436 GALLONS PER HOUR AT 80°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. WATER HEATER SHALL HAVE: MODULATING GAS BURNER, NON–SACRIFICIAL, MAINTENANCE FREE POWERED ANODES, SEAMLESS GLASS–LINED STEEL TANK CONSTRUCTION, FOAM INSULATION, AND DOWN–FIRED POWER BURNER. CONTROL SHALL BE AN INTEGRATED SOLID–STATE TEMPERATURE AND IGNITION CONTROL DEVICE WITH INTEGRAL DIAGNOSTICS, GRAPHIC USER INTERFACE, FAULT HISTORY DISPLAY, AND SHALL HAVE DIGITAL TEMPERATURE READOUT. WATER HEATER SHALL BE COMPLETE WITH: ASME RATED T&P RELIEF VALVE, BRASS DRAIN VALVE, CONCENTRIC VENT KIT, AND CONDENSATE NEUTRALIZATION KIT. ELECTRICAL: 120V/1ø/60Hz., 5.0 AMPS.
P-12			6"	–	3"	–	–	WATTS	957OSY	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER WITH UL/FM OUTSIDE STEM AND YOKE RESILIENT SEATED GATE VALVES. ASSEMBLY SHALL CONSIST OF TWO INDEPENDENT TORSION SPRING CHECK MODULES, A DIFFERENTIAL PRESSURE RELIEF VALVE, AND TWO DRIP TIGHT SHUT–OFF VALVES. SHUT–OFF VALVES, CHECK MODULES, AND RELIEF VALVE SHALL BE CONTAINED WITH A SLEEVE ACCESSIBLE SINGLE HOUSING WITH GROOVE END CONNECTIONS. TYPE 304 STAINLESS STEEL HOUSING AND SLEEVE. EPDM, SILICONE AND BUNA–N ELASTOMERS. NORYL AND STAINLESS STEEL TORSION SPRING CHECKS WITH REVERSIBLE SILICONE OR EPDM CHECK DISCS. BRONZE BODY NICKEL PLATED TEST COCKS. STAINLESS STEEL PINS, FASTENERS, AND SPRINGS. TEMPERATURE RANGE: 33°F TO 140°F. 175 PSI MAXIMUM WORKING PRESSURE. THE DEVICE SHALL BE APPROVED BY THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA.
P-13		–	4"	2"	–	–	–	ZURN	Z–1901	SANI–FLOR RECEPTOR, 12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM–DUTY ½ GRATE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, 3" OUTLET.
P-14		–	4"	2"	½"	–	–	ZURN	Z–1901	SANI–FLOR RECEPTOR, 12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM–DUTY GRATE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, 3" OUTLET, AND TRAP SEAL.
P-15		–	3"	1½"	–	–	–	ZURN	Z–415	FLOOR DRAIN, DURA COATED, 7" ROUND NICKEL BRONZE TYPE "I" STRAINER WITH RAISED FLANGE, 3" OUTLET.
P-16			4"	–	–	–	–	JAY R SMITH	9660	6" WIDE STAINLESS STEEL TRENCH DRAIN WITH A BUILT–IN SLOPE OF 0.6%. CHANNEL HAS AN INTEGRAL METAL RAIL AND 4" WIDE THROAT WITH BOLTING END PLATES. TRENCH DRAIN SYSTEM SHALL BE COMPLETE WITH ALL REQUIRED END CAPS AND CHANNEL CHAIRS FOR A COMPLETE INSTALLATION. PROVIDE WITH EXTRA HEAVY DUTY SLOTTED STAINLESS STEEL GRATE MODEL 9660–490–SSHDE. GRATE SHALL HAVE 3–1/4"x3/8" SLOTTED OPENINGS WITH 42.6 SQUARE INCH OPEN AREA, CLASS E 135,000 POUNDS. REFER TO FLOOR PLANS FOR LENGTH.
P-17			–	–	½"	–	–	ZURN	Z1350	ENCASED WALL HYDRANT FOR FLUSH INSTALLATION WITH ¾" MALE HOSE CONNECTION, TYPE 304 STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER, OPERATING KEY AND WALL CLAMP.
P-18			–	–	¾"	–	–	ZURN	Z1320XL	ENCASED, LEAD FREE, NON–FREEZE, ANTI–SIPHON, AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION WITH ¾" MALE HOSE CONNECTION, TYPE 304 STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER, OPERATING KEY AND WALL CLAMP.
P-19			–	–	¾"	–	–	WATTS	ES–HB–1	CAST BRASS HOSE BIB, BUILT–IN BACKFLOW PROTECTION, INTEGRAL VACUUM BREAKER, DRAINABLE IN COLD WEATHER, BACKSIPHONAGE PROTECTION.
P-20			2"	1½"	½"	½"	–	STERLING	OC–SS–39	MODULAR SHOWER WITH DURABLE SWIRL GLOSS FINISH, FOLDING TRANSFER SEAT WITH STAINLESS STEEL GRAB BAR, AND FACTORY INSTALLED STAINLESS STEEL GRAB BARS. SHOWER SHALL BE COMPRESSION MOLDED FROM VIKRELL. COLOR SHALL BE WHITE. UNIT DIMENSIONS: 39–3/8"x39–3/8"x72". UNIT SHALL BE SUPPLIED WITH 2" PVC SOLVENT WELD DRAIN WITH STAINLESS STEEL STRAINER, OATEY SERIES 101PS. UNIT SHALL COMPLY WITH THE FOLLOWING: IAPMO LISTED AND ANSI Z 124.2. SHOWER SHALL BE ADA COMPLIANT.
								SYMMONS	C–96–300–B30–V–X–CHKS	COMMERCIAL HAND SHOWER SYSTEM WITH SYMMONS TEMPTROL PRESSURE BALANCING MIXING VALVE AND LEVER STYLE HANDLE. VALVE SHALL INCLUDE ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, INTEGRAL SERVICE STOPS, AND INTEGRAL CHECK STOPS. T–300–V WALL/HAND SHOWER WITH 5–FOOT FLEXIBLE METAL HOSE, IN–LINE VACUUM BREAKER, WALL CONNECTION AND CRADLE FOR HAND SHOWER MOUNTING. 30 INCH SLIDE BAR. FOR MOUNTING HAND SHOWER. STANDARD FLOW RATE OF 2.5 GPM. POLISHED CHROME FINISH. LEVER HANDLE SHALL BE ADA COMPLIANT.
P-21	–		–	–	3/4"	–	–	PENTEK	#10 BB – ¾"	FILTER HOUSING AND LEAD, CYST, CHLORINE TASTE, AND ODOR REDUCTION FILTER. LARGE CAPACITY POLYPROPYLENE HOUSING AND CAP SUITABLE FOR HIGH FLOW APPLICATIONS, CERTIFIED BY NSF TO STANDARD 42, AND 10" HOUSING LENGTH WITH ACCEPTANCE OF 4–1/2" DIAMETER FILTER CARTRIDGES. FILTER LEAD REDUCTION CAPACITY OF 8,000 GALLONS, 2.5 GPM MAXIMUM FLOW RATE AND INITIAL PRESSURE DROP OF 7.0 PSI. FILTER IS TO HAVE BEEN TESTED TO NSF 42 AND NSF 53. LEAD REDUCTION SHALL BE BELOW 15 PART PER BILLION. TO BE USED FOR COLD SUPPLIES ONLY.
								KX TECHNOLOGIES	PB1 06–425–200–975	
P-22			–	–	½"	–	–	ELKAY	ECH8GRN	REMOTE CHILLER WITH HERMETICALLY–SEALED COMPRESSOR, FAN COOLED CONDENSER, COMBINATION TUBE–TANK TYPE COOLING UNIT AND TEMPERATURE CONTROL. CHILLER SHALL HAVE CAPACITY OF 8.0 GPH, ELECTRICAL: 115V/60Hz., 2.3 FULL LOAD AMPS, 260 WATTS. PROVIDE CHILLER WITH CHILLER SHELF, MODEL PM3, LOUVERED GRILL, MODEL EG–1 AND DISCONNECT SWITCH.
P-23			–	–	¾"	–	–	ZURN	Z1395XL	EXPOSED HEAD, LEAD FREE, NON–FREEZE YARD HYDRANT WITH ¾" MALE HOSE CONNECTION, DURA–COATED CAST IRON HEAD AND LIFT HANDLE, GALVANIZED STEEL CASING, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS.
P-24			–	–	1"	–	–	ELKAY	ER301	REMOTE CHILLER WITH HERMETICALLY–SEALED COMPRESSOR, FAN COOLED CONDENSER, COMBINATION TUBE–TANK TYPE COOLING UNIT AND TEMPERATURE CONTROL. CHILLER SHALL HAVE CAPACITY OF 32.0 GPH, ELECTRICAL: 115V/60Hz., 16 FULL LOAD AMPS, 1290 WATTS. PROVIDE CHILLER WITH DISCONNECT SWITCH.

Date 10/15/21
Checked SZ
Drawn BH/DC/KC

SCOTT P. ZIEGLER
Title LICENSED PROFESSIONAL ENGINEER New York License No. 091035

Revisions:
1 PERMIT SET 10/15/21

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PLUMBING:
EQUIPMENT SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 P702

P7.02

PLUMBING EQUIPMENT SCHEDULE

TAG	SYMBOLS		PLUMBING CONNECTIONS					MANUFACTURER	CATALOG #	DESCRIPTION
	PLAN	ELEVATION	SAN./STORM	VENT	COLD	HOT	GAS			
P-25			(2) 2"	–	½"	½"	–	ADVANCE TABCO	FC-2-2424-18RL	STAINLESS STEEL FOOD SERVICE SINK WITH TWO 24"Lx24"Wx14"H COMPARTMENTS, 18" LONG LEFT AND RIGHT DRAINBOARDS, 8½" BACKSPLASH, 16 GAUGE, 304 STAINLESS STEEL CONSTRUCTION AND ADJUSTABLE FEET, RAISED 1 1/2" ROLLED EDGE WITH 3 1/2" DRAIN WITH BASKET STRAINER. SINK SHALL HAVE 1 1/8" FAUCET HOLES ON 8" CENTERS. OVERALL DIMENSIONS OF SINK SHALL BE 84"Lx30"Wx43"H.
								T & S	B-0231-CR	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL FAUCET WITH 12" SWING NOZZLE SPOUT, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.5 GPM VANDAL-RESISTANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR UP TO 180°F WATER.
P-26			(3) 2"	–	(2) ½"	(2) ½"	–	ADVANCE TABCO	FC-3-2424-18RL	STAINLESS STEEL FOOD SERVICE SINK WITH THREE 24"Lx24"Wx14"H COMPARTMENTS, 18" LONG LEFT AND RIGHT DRAINBOARDS, 8½" BACKSPLASH, 16 GAUGE, 304 STAINLESS STEEL CONSTRUCTION AND ADJUSTABLE FEET, RAISED 1 1/2" ROLLED EDGE WITH 3 1/2" DRAIN WITH BASKET STRAINER. SINK SHALL HAVE 1 1/8" FAUCET HOLES ON 8" CENTERS. OVERALL DIMENSIONS OF SINK SHALL BE 108"Lx30"Wx43"H.
								KROWNE	DX-109	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL PRE RINSE FAUCET WITH 12" SWING NOZZLE SPOUT AND 1.15 GPM DUAL SPRAY HEAD VALVE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.8 GPM VANDAL-RESISTANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON LEFT HAND SIDE OF SINK. FAUCET SHALL BE SUPPLIED WITH ADJUSTABLE WALL BRACKET AND MOUNTING KIT.
								T & S	B-0231-CR	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL FAUCET WITH 12" SWING NOZZLE SPOUT, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.5 GPM VANDAL-HESITANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON RIGHT HAND SIDE OF SINK.
P-27			(3) 2"	–	(2) ½"	(2) ½"	–	ADVANCE TABCO	FC-3-2424	STAINLESS STEEL FOOD SERVICE SINK WITH THREE 24"Lx24"Wx14"H COMPARTMENTS, 8½" BACKSPLASH, 16 GAUGE, 304 STAINLESS STEEL CONSTRUCTION AND ADJUSTABLE FEET, RAISED 1 1/2" ROLLED EDGE WITH 3 1/2" DRAIN WITH BASKET STRAINER. SINK SHALL HAVE 1 1/8" FAUCET HOLES ON 8" CENTERS. OVERALL DIMENSIONS OF SINK SHALL BE 77"Lx30"Wx43"H.
								KROWNE	DX-109	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL PRE RINSE FAUCET WITH 12" SWING NOZZLE SPOUT AND 1.15 GPM DUAL SPRAY HEAD VALVE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.8 GPM VANDAL-RESISTANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON LEFT HAND SIDE OF SINK. FAUCET SHALL BE SUPPLIED WITH ADJUSTABLE WALL BRACKET AND MOUNTING KIT.
								T & S	B-0231-CR	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL FAUCET WITH 12" SWING NOZZLE SPOUT, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.5 GPM VANDAL-HESITANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON RIGHT HAND SIDE OF SINK.
P-28			½"	–	2"	2"	3"	AO SMITH	BTHS-1000A	ASME CONSTRUCTED, POWER DIRECT VENTING, NATURAL GAS HOT WATER HEATER WITH 97% THERMAL EFFICIENCY WITH STORAGE CAPACITY OF 120 GALLONS; AN INPUT RATING OF 1,000,000 BTUH, A RECOVERY RATING OF 905 GALLONS PER HOUR AT 130°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. WATER HEATER SHALL HAVE: MODULATING GAS BURNER, NON-SACRIFICIAL, MAINTENANCE FREE POWERED ANODES, INTELLIGENT DEMAND RESPONSE, SEAMLESS GLASS-LINED STEEL TANK CONSTRUCTION, FOAM INSULATION, AND DOWN-FIRED POWER BURNER. CONTROL SHALL BE AN INTEGRATED SOLID-STATE TEMPERATURE AND IGNITION CONTROL DEVICE WITH INTEGRAL DIAGNOSTICS, GRAPHIC USER INTERFACE, FAULT HISTORY DISPLAY, AND SHALL HAVE DIGITAL TEMPERATURE READOUT. WATER HEATER SHALL BE COMPLETE WITH: ASME RATED T&P RELIEF VALVE, BRASS DRAIN VALVE, AND CONDENSATE NEUTRALIZATION KIT. ELECTRICAL: 120V/1ø/60Hz., 5.0 AMPS.
P-29	–	–	–	–	1½"	1½"	–	BRADLEY	S19-2350 (EFX120RBOOO)	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE WITH INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT TEMPERATURE, BUILT-IN COLD WATER BYPASS, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST. TEMPERATURE RANGE OF 65°F - 90°F, SET POINT OF 80°F, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM INLET TEMPERATURE OF 180°F. VALVE SHALL MEET ANSI Z358.1-2009 STANDARD. MIXING VALVE SHALL BE COMPLETE WITH ROUGH BRASS VALVES, AND SURFACE MOUNTED STAINLESS STEEL CABINET WITH PLEXI-GLASS WINDOW IN DOOR. VALVE SHALL HAVE 13 PSI PRESSURE DROP AT 54 GPM.
P-30	–	–	–	–	2"	2"	–	BRADLEY	S19-2200 (EFX60RBOSSW)	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE WITH INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT TEMPERATURE, BUILT-IN COLD WATER BYPASS, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST. TEMPERATURE RANGE OF 65°F - 90°F, SET POINT OF 80°F, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM INLET TEMPERATURE OF 180°F. VALVE SHALL MEET ANSI Z358.1-2009 STANDARD. MIXING VALVE SHALL BE COMPLETE WITH ROUGH BRASS VALVES, AND SURFACE MOUNTED STAINLESS STEEL CABINET WITH PLEXI-GLASS WINDOW IN DOOR. VALVE SHALL HAVE 8 PSI PRESSURE DROP AT 27 GPM.
P-31	–	–	–	–	1½"	1½"	–	BRADLEY	S59-3045 (HL45RSBOOO)	LEAD-FREE THERMOSTATIC MIXING VALVE WITH INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT TEMPERATURE, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST OR THERMOSTAT FAILURE. TEMPERATURE RANGE OF 65°F - 90°F, SET POINT OF 80°F, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM INLET TEMPERATURE OF 180°F. MIXING VALVE SHALL BE COMPLETE WITH ROUGH BRASS VALVES, WALL MOUNTING BRACKET. VALVE SHALL HAVE 14 PSI PRESSURE DROP AT 24 GPM.
P-32			(2) 1½"	1½"	½"	½"	–	ELKAY	LRAD332155	TYPE 304 STAINLESS STEEL, TOP MOUNT, DOUBLE BOWL, ADA COMPLIANT SINK. OVERALL DIMENSIONS 33"Lx21-1/4"W BY 5-1/2"DEEP. 3 FAUCET HOLES ON 4" CENTERS, OFF-CENTERED READ DRAIN OPENING LOCATION. EXPOSED SURFACES SHALL HAVE SATIN FINISH. FULLY UNDERCOATED TO DAMPEN SOUND AND PREVENT CONDENSATION. PROVIDE ELKAY LKVR18B STAINLESS STEEL VANDAL-RESISTANT GRID STRAINER AND TRUEBRO MODEL 103 E-Z LAV GUARD IN ADA LOCATIONS
								MOEN	8244	TWO-HANDLE KITCHEN FAUCET WITH SIDE SPRAY. BRASS CONSTRUCTION WITH CHROME PLATED FINISH. FAUCET SHALL BE ADA COMPLIANT. HANDLES SHALL BE WRIST BLADE STYLE WITH HOT AND COLD COLOR INDICATORS AND VANDAL RESISTANT TORX HEAD SCREWS. 1.5 GPM MAX FLOWRATE.
P-33			1½"	1½"	½"	½"	–	KOHLER	K-8223	NEOROC, UNDER MOUNT, SINGLE BOWL, ADA COMPLIANT BAR SINK. OVERALL DIMENSIONS 15-1/2"Lx15-1/2"W BY 10-1/8"DEEP. CENTER DRAIN OPENING LOCATION. PROVIDE ELKAY LKVR18B STAINLESS STEEL VANDAL-RESISTANT GRID STRAINER AND TRUEBRO MODEL 103 E-Z LAV GUARD IN ADA LOCATIONS. SINK SHALL BE MATTE BLACK.
								DELTA	9159-DST-BL	MATTE BLACK, SINGLE HANDLE, DECK MOUNT FAUCET, WITH 2-FUNCTION PULL-DOWN SPRAYER. FAUCET SHALL BE LEAD FREE, ADA COMPLIANT AND NSF-61 LISTED AND APPROVED. FLOW RATE 1.8 GPM.
P-34		–	3"	1½"	–	–	–	THUNDERBIRD	BDPB3NH	PLANTER BOX DRAIN, 6" ROUND PLASTIC GRATE WITH 316 STAINLESS STEEL CLAMPING RING, PERFORATED PVC STAND PIPE, 3" OUTLET.
P-35			1¼"	–	–	1¼" (TEPID)	–	BRADLEY	S19314	BARRIER-FREE COMBINATION DRENCH SHOWER AND HALO EYE/FACE WASH. SHOWER VALVE OPERATED BY PULL ROD WITH TRIANGULAR HANDLE. HALO EYE/FACE WASH OPERATED BY PUSH HANDLE. UNIT SHALL BE UL CLASSIFIED AND MEET ANSI STANDARD Z358.1. 1-1/4" GALVANIZED STEEL PIPING ASSEMBLY WITH SAFETY YELLOW COATING. 1" STAY OPEN SHOWER AND ½" STAY OPEN EYE/FACE WASH CHROME-PLATED BRASS BALL VALVES. SHOWER HEAD SHALL DELIVER 22 GPM. EYE/FACE WASH SHALL DELIVER 5.1 GPM. YELLOW IMPACT RESISTANT PLASTIC SHOWER HEAD, BOWL AND DUST COVER. TYPE 304 STAINLESS STEEL ACTIVATION HANDLE AND DRENCH HOSE KIT WITH VACUUM BREAKER. FIXTURE SHALL BE COMPLETE WITH UNIVERSAL IDENTIFICATION SIGN AND INSPECTION TAG.
P-36			–	–	–	¾"	–	AMTROL	ST-5C-DD	EXPANSION TANK WITH TANK VOLUME OF 2.0 GALLONS AND AN ACCEPTANCE VOLUME OF 0.9 GALLONS. TANK SHALL BE ANSI/NSF 61 FOR POTABLE WATER USE AND SHALL BE ASME RATED. MAXIMUM OPERATING TEMPERATURE 200°F AND MAXIMUM WORKING PRESSURE 150 PSI.
P-37			–	–	–	¾"	–	AMTROL	ST-12C-DD	EXPANSION TANK WITH TANK VOLUME OF 6.4 GALLONS AND AN ACCEPTANCE VOLUME OF 3.2 GALLONS. TANK SHALL BE ANSI/NSF 61 FOR POTABLE WATER USE AND SHALL BE ASME RATED. MAXIMUM OPERATING TEMPERATURE 200°F AND MAXIMUM WORKING PRESSURE 150 PSI.
P-38			–	–	–	¾"	–	TACO	003-B4	LOW-LEAD COMPLIANT, NSF 61, BRONZE, SELF-LUBRICATING, HOT WATER RECIRCULATION PUMP. FLOW RANGE: 0-7 GPM. HEAD RANGE: 0-4.5 FEET. PUMP MAXIMUM WORKING PRESSURE 125 PSI AND MAXIMUM OPERATING TEMPERATURE 220°F. PROVIDE TACO 563-2 TEMPERATURE AQUASTAT. PROVIDE DISCONNECT SWITCH. ELECTRICAL: 120V/1ø/60Hz., 0.43 AMPS, 3250 RPM, AND 1/40 HP.
P-39			6"	–	–	–	–	PARK	SSB-150	CONCRETE SOLIDS INTERCEPTOR AND EXTENSION RINGS WITH STAINLESS STEEL FINISH. SOLIDS INTERCEPTOR SHALL BE COMPLETE WITH 24" DIA. DUCTILE IRON RING WITH COVER, SOLIDS SCREEN, BASIN SECTION, BITUMASTIC EXTERIOR LINER, BASKET FRAME STAINLESS STEEL LIFTING HANDLES, PLASTIC FLEXIBLE GASKET, HIGH LEVEL ALARM FLOAT SWITCH AND SERVICE ALERT PANEL WITH AUDIBLE AND VISUAL ALARM AND NO HUB CONNECTION. 150 GPM FLOW RATE AND 40 LBS SOLIDS CAPACITY. EXTENSION HEIGHT TO BE VERIFIED BY PLUMBING CONTRACTOR PRIOR TO ORDERING BASED ON FINAL LAYOUT OF PIPING SYSTEM.
P-40			3"	1½"	–	–	–	JAY R SMITH	2005Y(B)	FLOOR DRAIN WITH DUCO CAST IRON BODY, FLASHING COLLAR, SEDIMENT BUCKET, VANDAL PROOF SCREWS AND 6"x6" SQUARE ADJUSTABLE STRAINER HEAD. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP SEALS.
P-41			4"	6"	–	–	–	BURT	BPBDN-1000	BATCH PH NEUTRALIZATION SYSTEM WITHIN SHIPPING CONTAINER. SYSTEM SHALL CONSIST OF (2) AVS-1000 BATH NEUTRALIZATION TANKS WITH HOMOPOLYMER POLYPROPYLENE CONSTRUCTION, (2) TANK MIXERS ANGLE MOUNTED ON TANK RAILS WITH A SINGLE HYDROFOIL STYLE IMPELLER AND T316 SS SHAFT WITH A MINIMUM DIAMTER OF ¾", (2) pH SENSORS LOCATED WITHIN REACTION TANK AND EFFLUENT DISCHARGE, REAGENT LIQUID LEVEL CONTROLS, (2) 70-GALLON REAGENT TANKS CONSTRUCTED HIGH DENSITY POLYETHYLENE WITH UV INHIBITOR, (2) CHEMICAL METERING PUMPS, NEMA 12 TYPE CONTROL ENCLOSURE WITH FUSED DISCONNECT SWITCH, EMERGENCY STOP BUTTON, SIEMENS PLC/HMI FOR AUTOMATIC BATCH CONTROL, COMMON ALARM HORN AND SILENCE BUTTON, COMMON ALARM BEACON, ALL REQUIRED INTERNAL WIRING FOR ALL MOTORS/CIRCUIT PROTECTION, PH CONTROLLERS AND RECORD, (2) PH ANALYZERS/CONTROLLERS WITHIN NEMA 4X ENCLOSURE, EFFLUENT MONITORING WET WELL AND FLOW SENSOR. ENTIRE SYSTEM SHALL BE INSTALLED WITHIN A MODIFIED SHIPPING CONTAINER. CONTAINER SHALL HAVE HEAVY-GAUGE STEEL DOUBLE PERSONNEL DOORS, SINGLE BORE DOOR, 2" CIRCULAR FLOOR DRAIN, R-21 CLOSED CELL SPRAY-APPLIED FOAM INSULATION, OPERABLE CARGO DOORS AR END OF CONTAINER, 3TON BARD HVAC UNIT WITH 10KW ELECTRIC HEAT(@ 460V), 120V POWER DISTRIBUTION CENTER FEED FROM THE MAIN 460V DROP TO CONTROL PANEL WILL BE USED FOR CONTAINER LIGHTING AND CONVENIENCE OUTLETS. CONTAINER ELECTRICAL: 460/3ø/60, 30 AMP BREAKER. HVAC UNIT SHALL HAVE SEPARATE POWER FEED. CONTACT MARK GIRGENTI AT BURT PROCESS EQUIPMENT AT 1(203)-508-1244 / MARKGIRGENTI@BURTPROCESS.COM FOR ADDITIONAL INFORMATION.
P-42			6"IN/4"OUT	2½"	–	–	–	BURT	PPS-500JXD34	DUPLEX TRANSFER PUMP LIFT STATION CONSISTING OF: TWO 316SS SUBMERSIBLE SUMP PUMPS RATED FOR 180°F, AUTOMATIC LIQUID LEVEL CONTROL, COPOLYMER POLYPROPYLENE BASIN WITH EXTRUSION WELDED EXTERIOR AND TRIPLE BEAD WELDED INTERIOR, REINFORCED COVER, STRUCTURAL SUPPORT GIRTHS, REDUNDANT HIGH LEVEL ALARM, GUIDED WAVE RADAR LEVEL CONTROL, CONTROL PANEL AND ALL NECESSARY APPURTENANCES REQUIRED FOR A PROPERLY OPERATING PUMPING SYSTEM. PUMPS SHALL PUMP MOTORS SHALL HAVE A MAXIMUM SIZE OF 5 HORSEPOWER AND SHALL OPERATE AT A MAXIMUM SPEED OF 3450 RPM, AND BE SUITABLE FOR OPERATION WITH 460 VOLTS, 3 PHASE, 60HZ. MOTORS SHALL BE OIL-FILLED, CONTINUOUS-DUTY RATED, MECHANICALLY SEALED WITH CLASS R INSULATION, STAINLESS STEEL CONSTRUCTION, THERMAL SENSORS, SEAL MINDER MOISTURE SENSING PROBE FOR LEAK DETECTION AND RATED FOR 200°F LIQUID. PUMP SHALL BE 5HP, 460/3ø/60HZ AND DESIGNED FOR 100 GPM AT 40' TOTAL DYNAMIC HEAD. SYSTEM SHALL HAVE 4" DISCHARGE CONNECTION AND 2½" VENT CONNECTION. PUMP SHALL BE REMOVABLE FROM SUMP PIT WITHOUT NEED FOR PERSONNEL ENTERING THE PIT OR THE REMOVAL OF ANY FASTENERS. MECHANICAL SEAL SHALL BE VITON ELASTOMERS. PUMPS TO HAVE CURVE CHARACTERISTIC SO AS NOT TO OVERLOAD THE MOTOR AT ANY POINT THROUGHOUT ITS ENTIRE RANGE. PROVIDE AND INSTALL A CHECK AND GATE VALVE SPECIFICALLY DESIGNED FOR SEWAGE EJECTOR PUMP SERVICE IN EACH DISCHARGE LINE. PUMP MANUFACTURER SHALL WARRANT THE PUMPS AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF (5) YEARS. BASIN SHALL HAVE A 6" INLET AT A HEIGHT OF 68" BELOW FINISHED FLOOR, CONTRACTOR SHALL COORDINATE FINAL HEIGHT BASED ON APPROVED SANITARY LAYOUT. CONTACT MARK GIRGENTI AT BURT PROCESS EQUIPMENT AT 1(203)-508-1244 / MARKGIRGENTI@BURTPROCESS.COM FOR ADDITIONAL INFORMATION.

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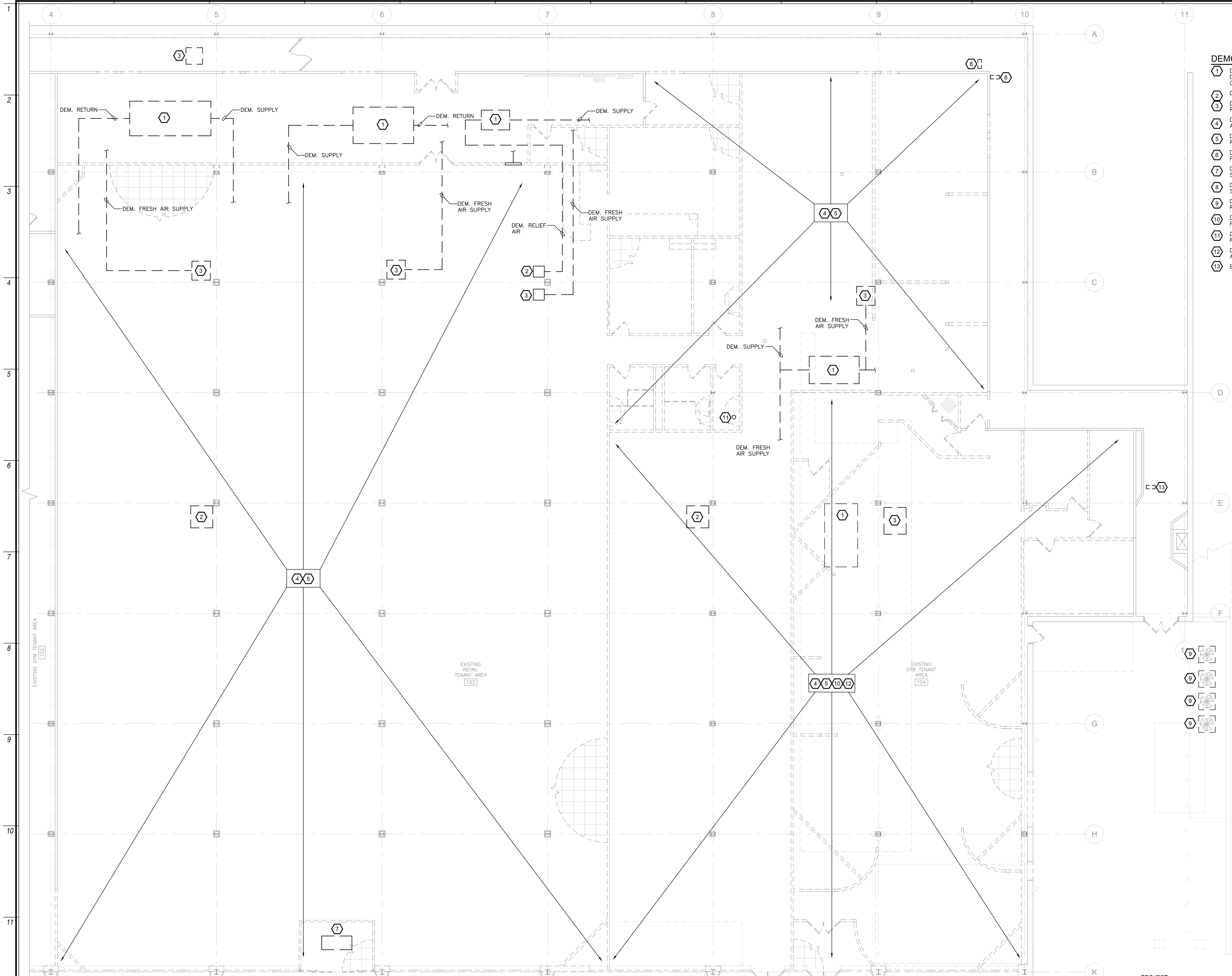
PLUMBING:
EQUIPMENT SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 P703

P7.03

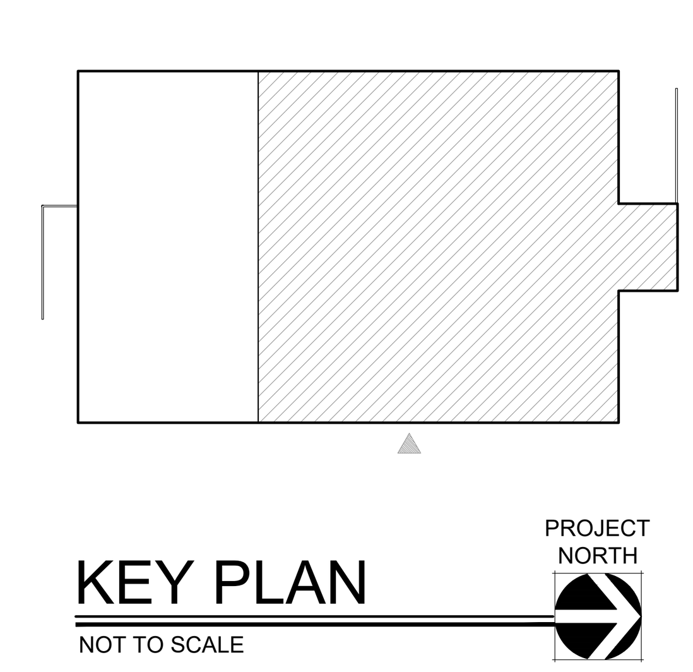


1 M1.01 **MECHANICAL:** PARTIAL FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

DEMOLTION KEYED NOTES

1. DEMOLISH AIR HANDLER, GAS—FIRED FURNACE AND ALL ASSOCIATED DUCTWORK, REFRIGERANT PIPING, FLUE PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS AND ETC.
2. DEMOLISH RELIEF AIR DUCT UP THROUGH SECOND FLOOR TO ROOF.
3. DEMOLISH FRESH AIR INTAKE DUCT UP THROUGH SECOND FLOOR TO ROOF.
4. DEMOLISH ALL SUPPLY, RETURN AND EXHAUST DUCTWORK, AND ALL ASSOCIATED SUPPORTS AND ETC.
5. DEMOLISH AIR CEILING DIFFUSERS, LINEAR DIFFUSERS, RETURN GRILLES, RETURN REGISTERS AND ETC.
6. DEMOLISH AIR HANDLER AND ALL ASSOCIATED DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS AND ETC.
7. DEMOLISH CABINET UNIT HEATER AND ALL ASSOCIATED CONTROLS, SUPPORTS AND ETC.
8. DEMOLISH ELECTRIC UNIT HEATERS AND ALL ASSOCIATES CONTROLS, SUPPORTS AND ETC.
9. DEMOLISH AIR COOLED CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT PIPING, CONTROLS, SUPPORTS AND ETC.
10. DEMOLISH ALL AIR HANDLERS WITHIN SPACE AND ALL ASSOCIATED PIPING, CONTROLS, SUPPORTS AND ETC.
11. DEMOLISH FLUE PIPING AND ALL ASSOCIATED SUPPORTS UP THROUGH ROOF.
12. DEMOLISH ELECTRIC BASEBOARD THROUGHOUT SPACE AND ALL ASSOCIATED CONTROLS, SUPPORTS AND ETC.
13. EXISTING ELECTRIC UNIT HEATER TO REMAIN.



KEY PLAN

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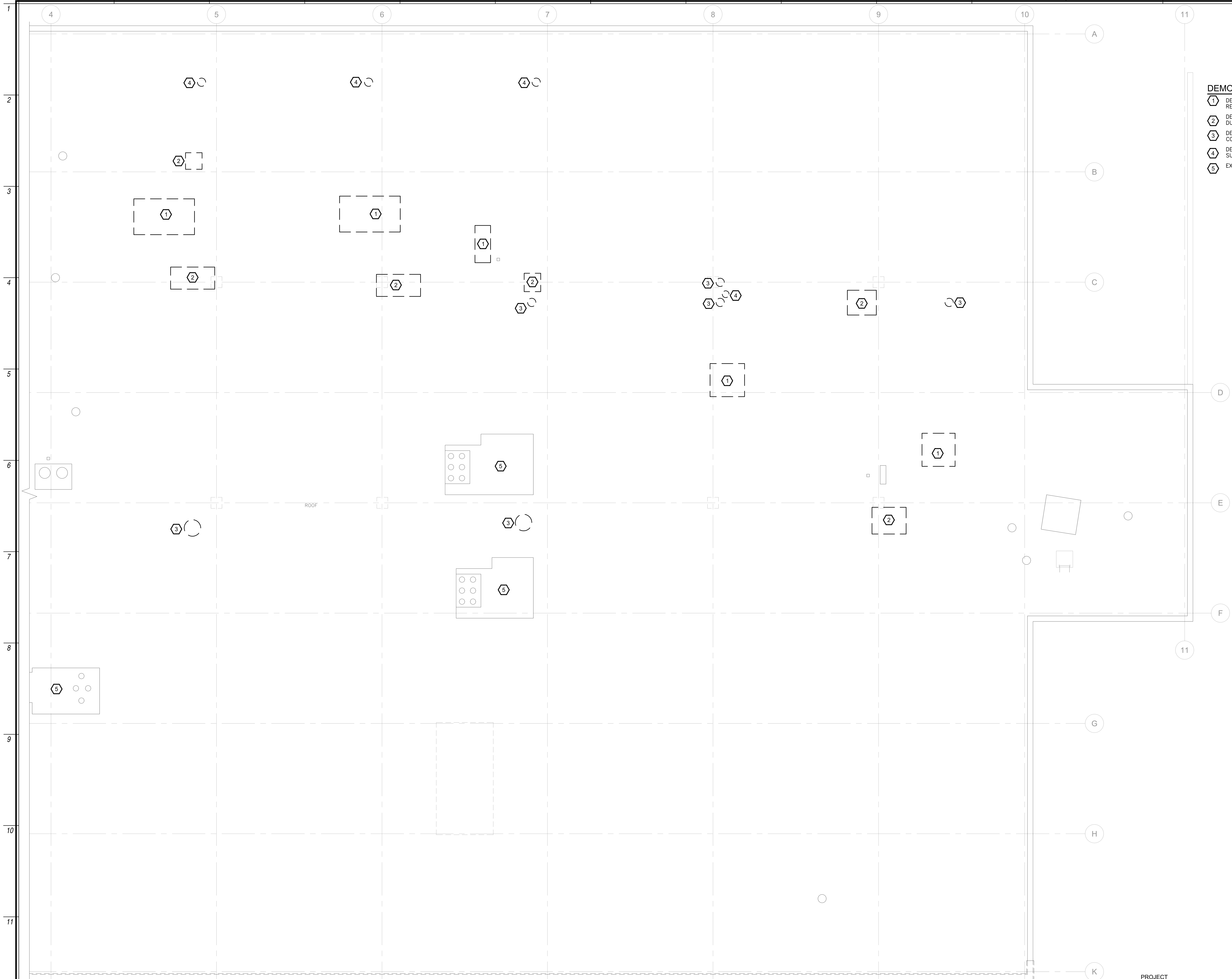
MECHANICAL:
PARTIAL FIRST FLOOR DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 M101

M1.01



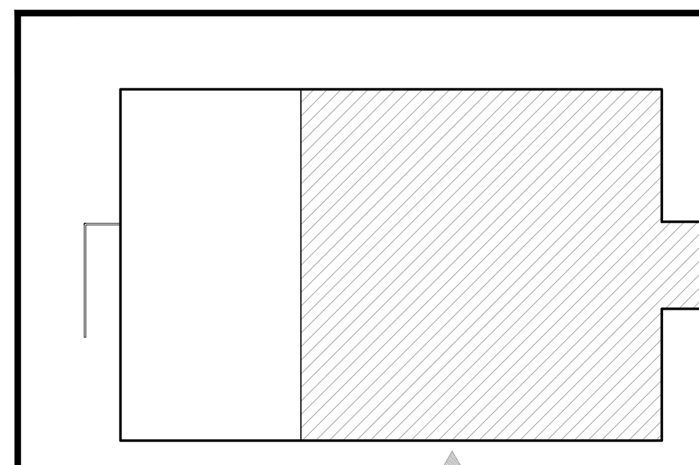
DEMOLTION KEYED NOTES

1. DEMOLISH AIR COOLED CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT PIPING, CONTROLS, SUPPORTS AND ETC.
2. DEMOLISH FRESH AIR INTAKE PENTHOUSE AND ALL ASSOCIATED DUCTWORK THROUGH ROOF.
3. DEMOLISH EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, SUPPORTS, CONTROLS AND ETC.
4. DEMOLISH FLUE CAP AND ALL ASSOCIATED FLUE PIPING AND SUPPORTS.
5. EXISTING ROOFTOP UNIT TO REMAIN.

1 / M1.03 MECHANICAL: PARTIAL ROOF DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

PROJECT NORTH



KEY PLAN

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MECHANICAL:
PARTIAL ROOF DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 M102

M1.02

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. 18x18 DOWN TO HOOD. TRANSITION TO 16"ø AT CONNECTION.
2. 16x14 DOWN TO HOOD. TRANSITION TO 14"ø AT CONNECTION.
3. TIME CLOCK FOR EF-3, EF-4, AND EF-5 MOUNTED ON WALL.

NOTES:

1. ALL EXPOSED ROUND DUCTWORK SHALL BE PREPARED, PRIMED AND PAINTED BY GENERAL CONTRACTOR.
2. ALL EXPOSED ROUND DUCTWORK SHALL BE DOUBLE WALL SPIRAL LOCKSEAM SIMILAR TO UNITED MCGILL ACOUSTI-K27 WITH 1" INSULATION THICKNESS AND SHEET-METAL INNER LINER. ALL FITTINGS AND TEES USED FOR DOUBLE WALL SPIRAL LOCKSEAM DUCTWORK SHALL BE LOW PRESSURE LOSS TYPE. DUCTWORK SERVING BREWERY SHALL BE TYPE 316 STAINLESS STEEL.
3. ALL CONTROL WIRING SHALL BE IN CONDUIT.
4. DUCTWORK SERVING BREWERY SHALL BE STAINLESS STEEL.

1 M2.01 **MECHANICAL:** PARTIAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

PROJECT NORTH

KEY PLAN

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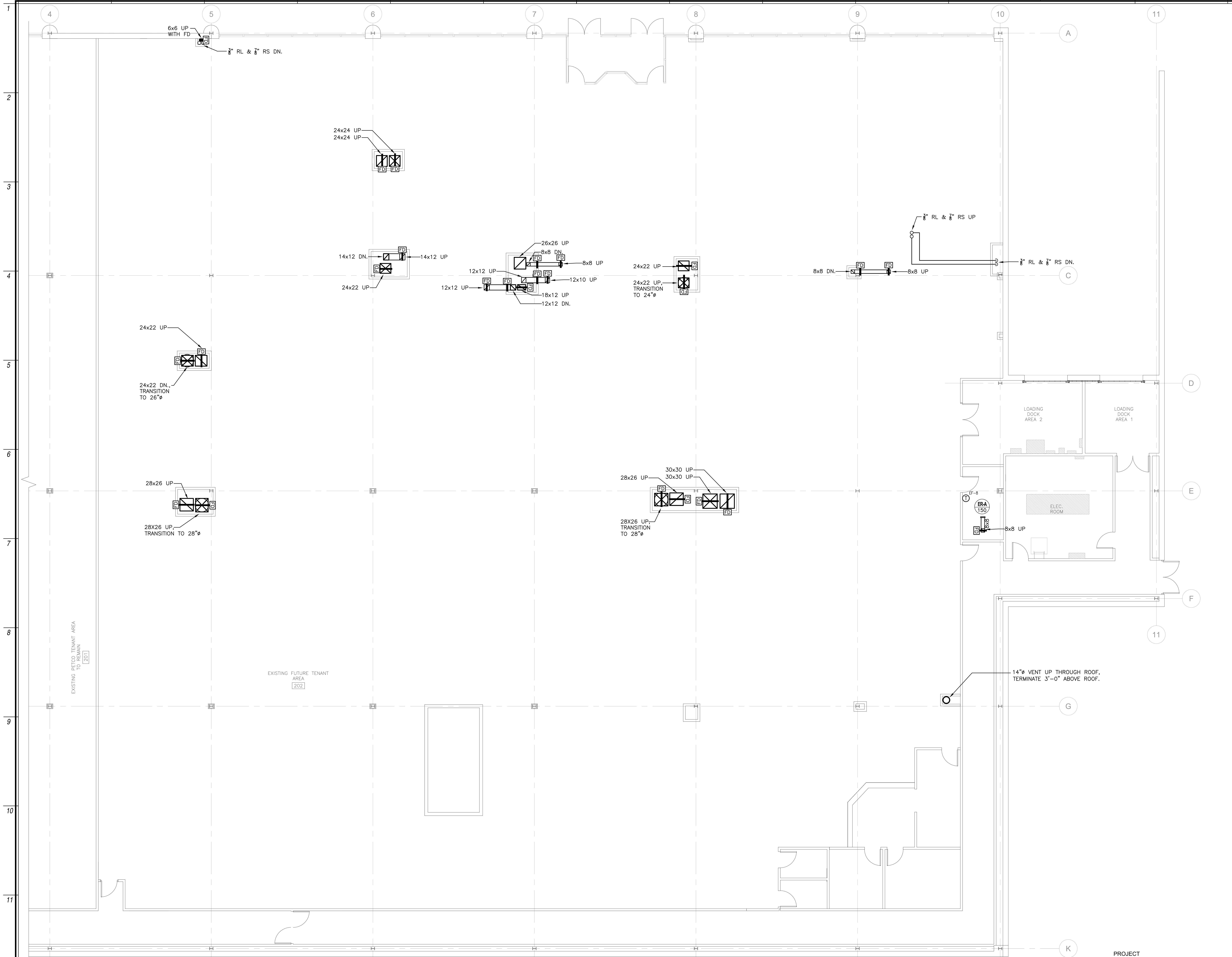
MECHANICAL: PARTIAL FIRST FLOOR PLAN
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

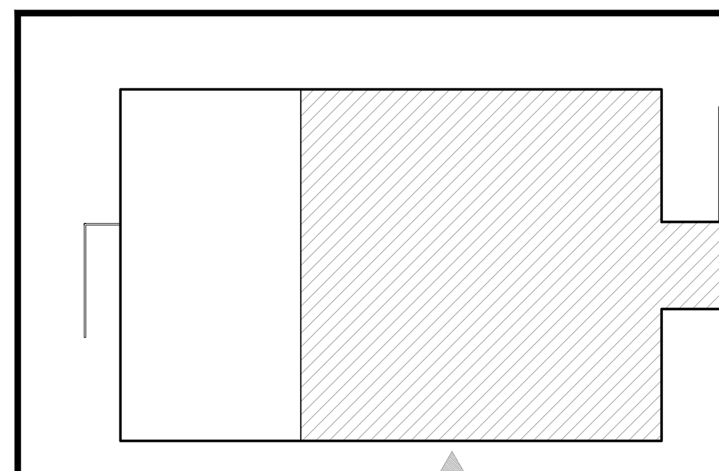
File No. 4155201 M201

M2.01



1 M2.02 **MECHANICAL:** PARTIAL SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"



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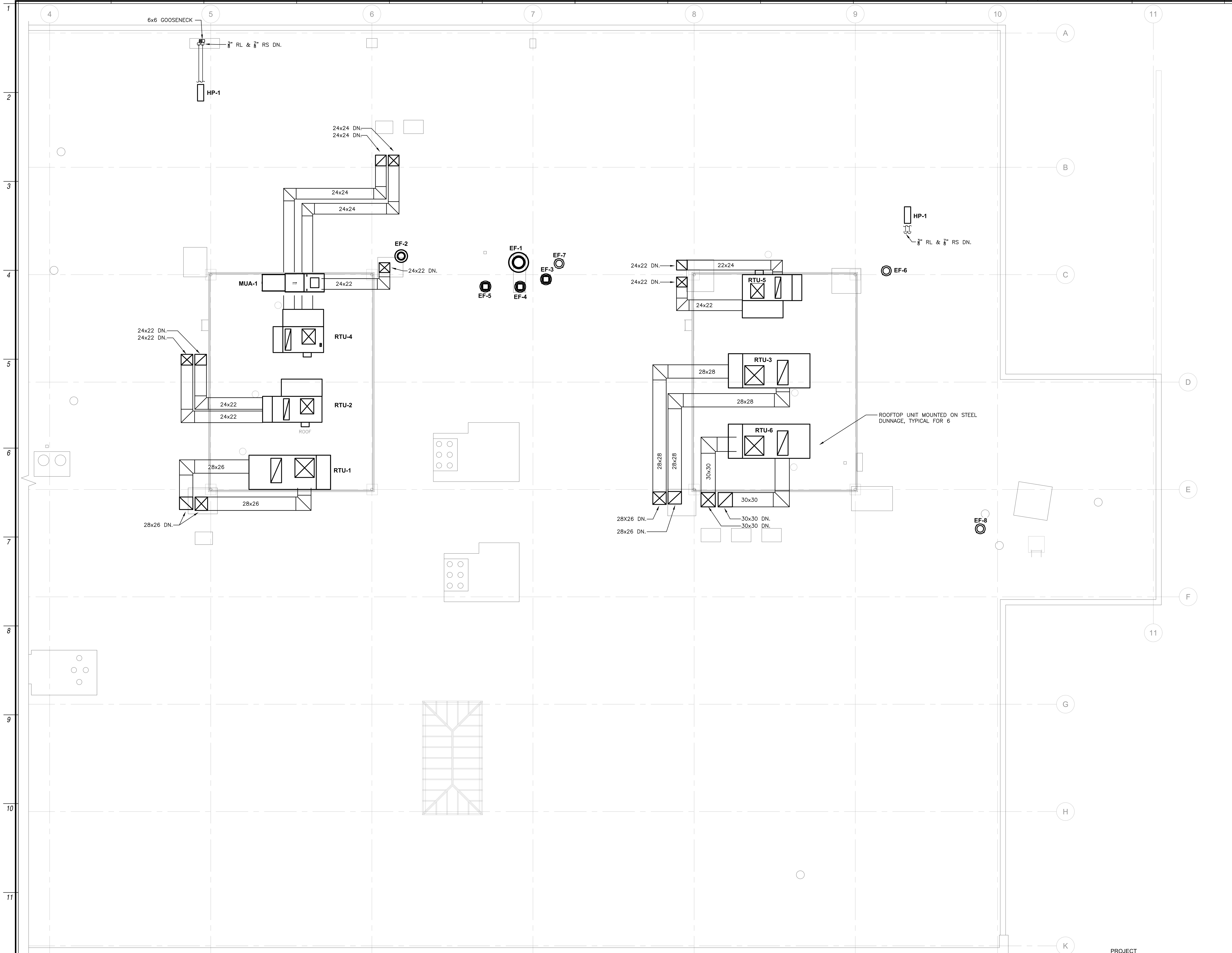
MECHANICAL:
PARTIAL SECOND FLOOR PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

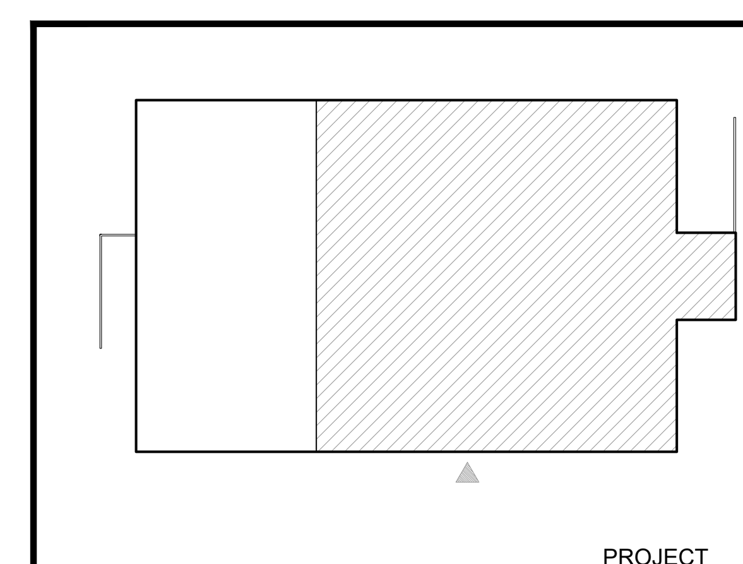
Job No. 4.1552.01

File No. 4155201 M202

M2.02



1 M2.03 MECHANICAL: PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"



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MECHANICAL:
PARTIAL ROOF PLAN

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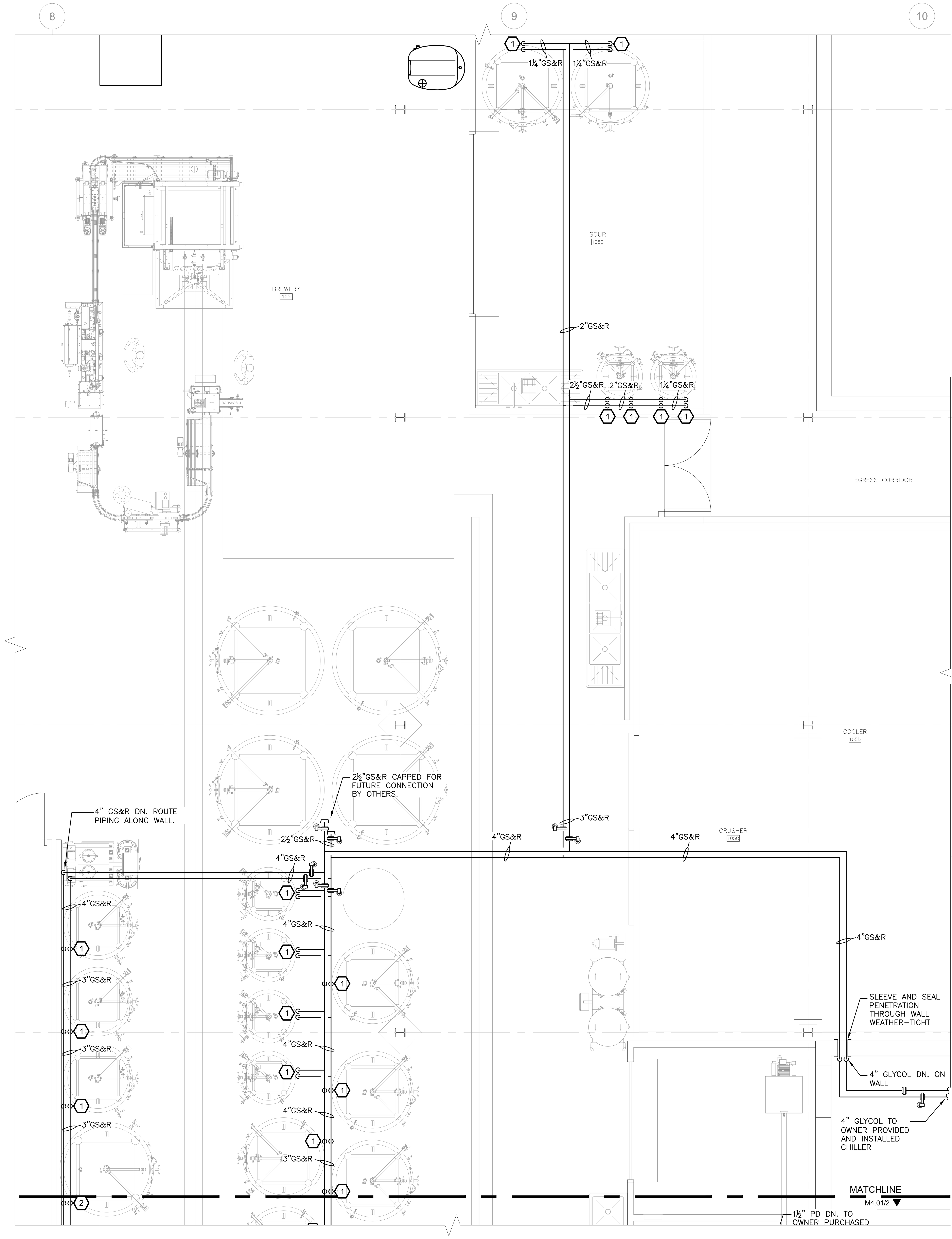
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 M203

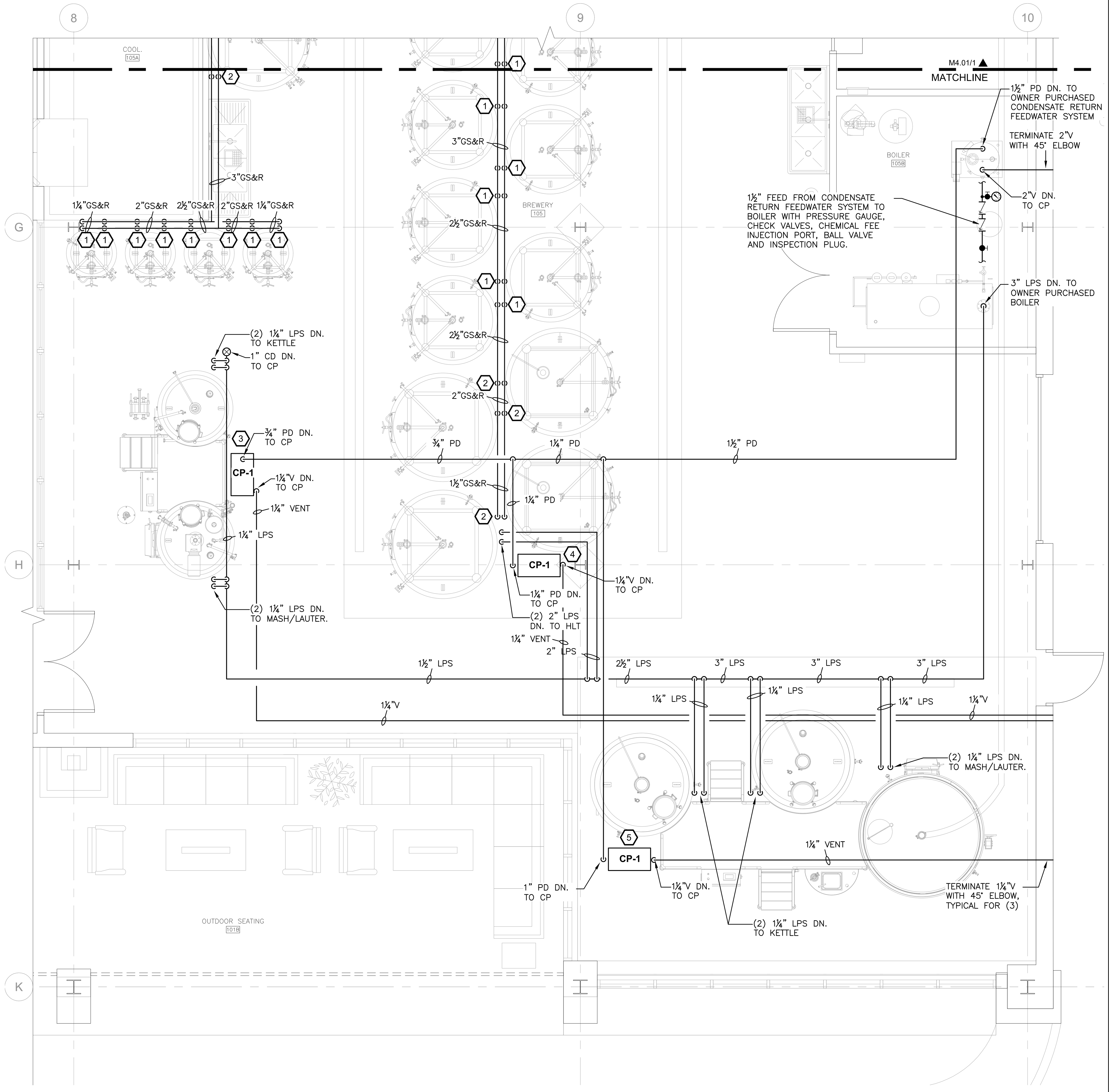
M2.03



1 M4.01 **MECHANICAL:** ENLARGED BREWERY AREA PLAN

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

PROJECT NORTH



2 M4.01 **MECHANICAL:** ENLARGED BREWERY AREA PLAN

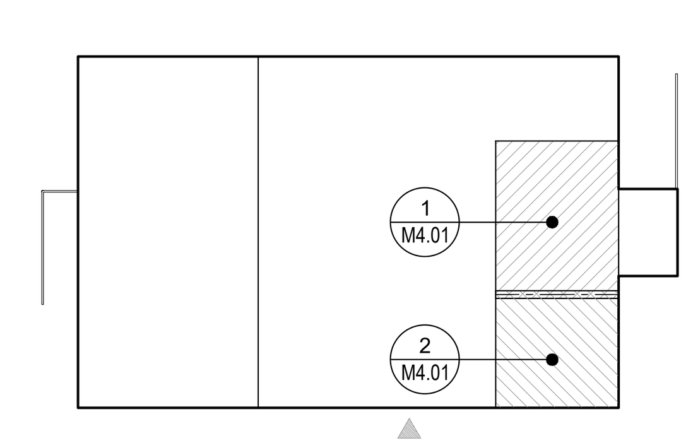
SCALE: 1/4" = 1'-0"

PROJECT NORTH

KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. 1¼" GS&R DN. TO TANK. REFER TO DETAIL FOR MORE INFORMATION.
2. 1½" GS&R DN. TO TANK. REFER TO DETAIL FOR MORE INFORMATION.
3. ROUTE (4) ¾" STEAM CONDENSATE PIPES FROM BREW HOUSE TO ¾" CONDENSATE MAIN. ROUTE ¾" MAIN TO CONDENSATE PUMP. REFER TO DETAIL FOR GENERAL PIPING INFO.
4. ROUTE (3) ¾" STEAM CONDENSATE PIPES FROM TANK TO 1¼" CONDENSATE MAIN. ROUTE 1¼" MAIN TO CONDENSATE PUMP. REFER TO DETAIL FOR GENERAL PIPING INFO.
5. ROUTE (6) ¾" STEAM CONDENSATE PIPES FROM BREW HOUSE TO 1" CONDENSATE MAIN. ROUTE 1" MAIN TO CONDENSATE PUMP. REFER TO DETAIL FOR GENERAL PIPING INFO.



KEY PLAN

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PROJECT NORTH

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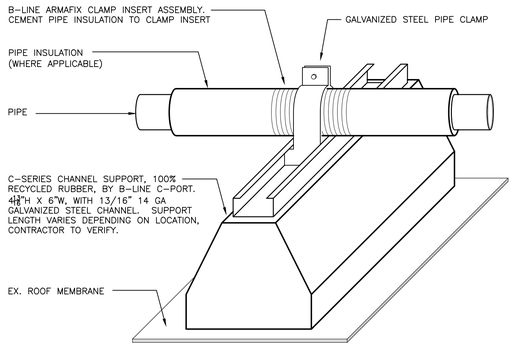
MECHANICAL:
ENLARGED BREWERY AREA PLANS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 M401

M4.01

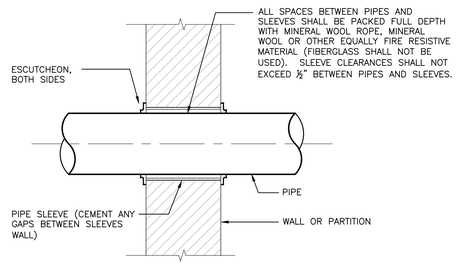


NOTES:

1. ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
2. CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFLEX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR SUPPORTS.
3. CEMENT RUBBER SUPPORT BLOCKS TO ROOF – USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

1 M6.01 ROOF PIPE SUPPORT DETAIL

NOT TO SCALE

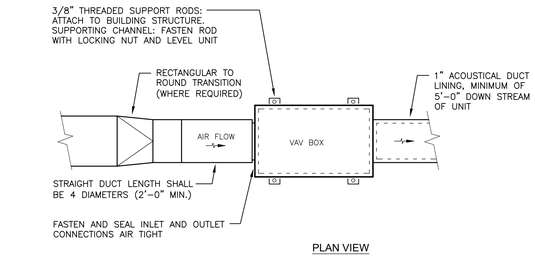


NOTE:

1. THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION – SEE SPECIFICATIONS.
2. PROVIDE FIRE STOP SEALANT ON ALL NEW AND EXISTING PIPING PENETRATING EXISTING FIRE RATED WALLS AND NEW FIRE RATED WALLS CONSTRUCTED AS PART OF THE PROJECT.

2 M6.01 FIRE RATED PARTITION AND WALL PIPE PENETRATION DETAIL

NOT TO SCALE



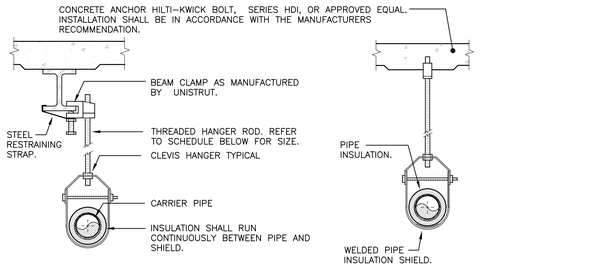
PLAN VIEW

NOTES:

1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. TERMINAL UNITS SHALL BE PROVIDED WITH CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS. FOR UNITS WITH ELECTRONIC CONTROLS FURNISH NEMA 1 RATED ENCLOSURE AND U.L. II TRANSFORMER AND DISCONNECT SWITCH.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCING AND MAINTENANCE.

3 M6.01 VAV BOX INSTALLATION DETAIL

NOT TO SCALE



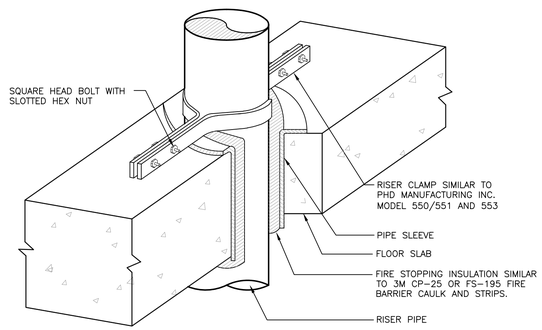
PIPE HANGER SCHEDULE						
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"	
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"	

NOTES:

1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

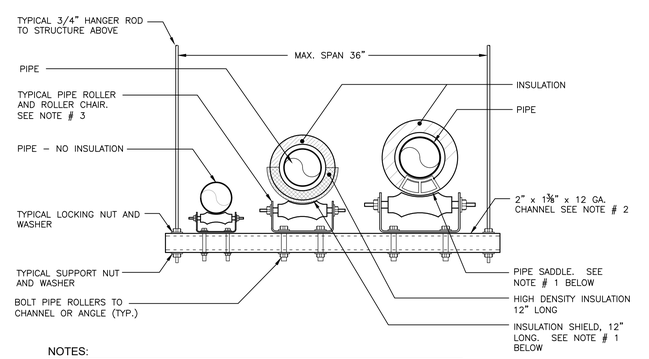
4 M6.01 PIPE HANGER DETAIL

NOT TO SCALE



5 M6.01 PIPE PENETRATION THROUGH FLOOR DETAIL

NOT TO SCALE

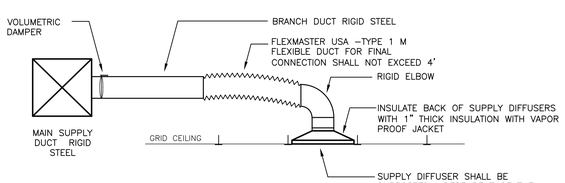


NOTES:

1. PROVIDE INSULATION SHIELD OR PIPE SADDLE BASED ON THE PIPING SYSTEM AND PIPE SIZE AS INDICATED IN THE SPECIFICATIONS.
2. TRAPEZE TYPE HANGER SHALL BE USED FOR A MAXIMUM 1,000 LB UNIFORM LOAD.
3. ELIMINATE PIPE ROLLERS AND ROLLER CHAIRS AT ANCHOR POINTS

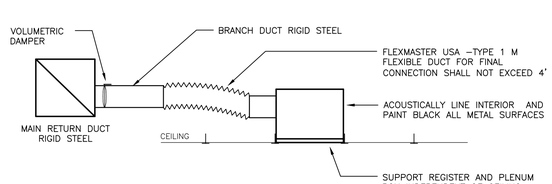
6 M6.01 TRAPEZE TYPE HANGER INSTALLATION DETAIL

NOT TO SCALE



7 M6.01 SUPPLY DIFFUSER LAY-IN DETAIL

NOT TO SCALE

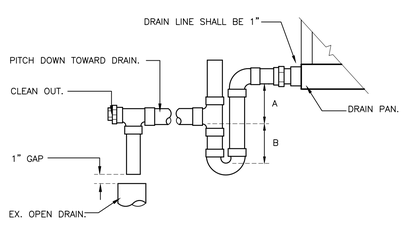


NOTE:

1. FLEXIBLE AIR DUCT SHALL BE TESTED AND APPROVED IN ACCORDANCE WITH UL 181. ALL SUCH CONNECTORS AND FLEXIBLE AIR DUCTS SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1, IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE.

8 M6.01 RETURN REGISTER DETAIL

NOT TO SCALE



NOTE:

1. DRAW THRU UNITS; DIMENSION A (DEPTH OF SEAL) SHALL BE 2" MINIMUM AND DIMENSION B SHALL BE 1.2 x THE STATIC PRESSURE OF THE UNIT.

9 M6.01 CONDENSATE DRAIN DETAIL

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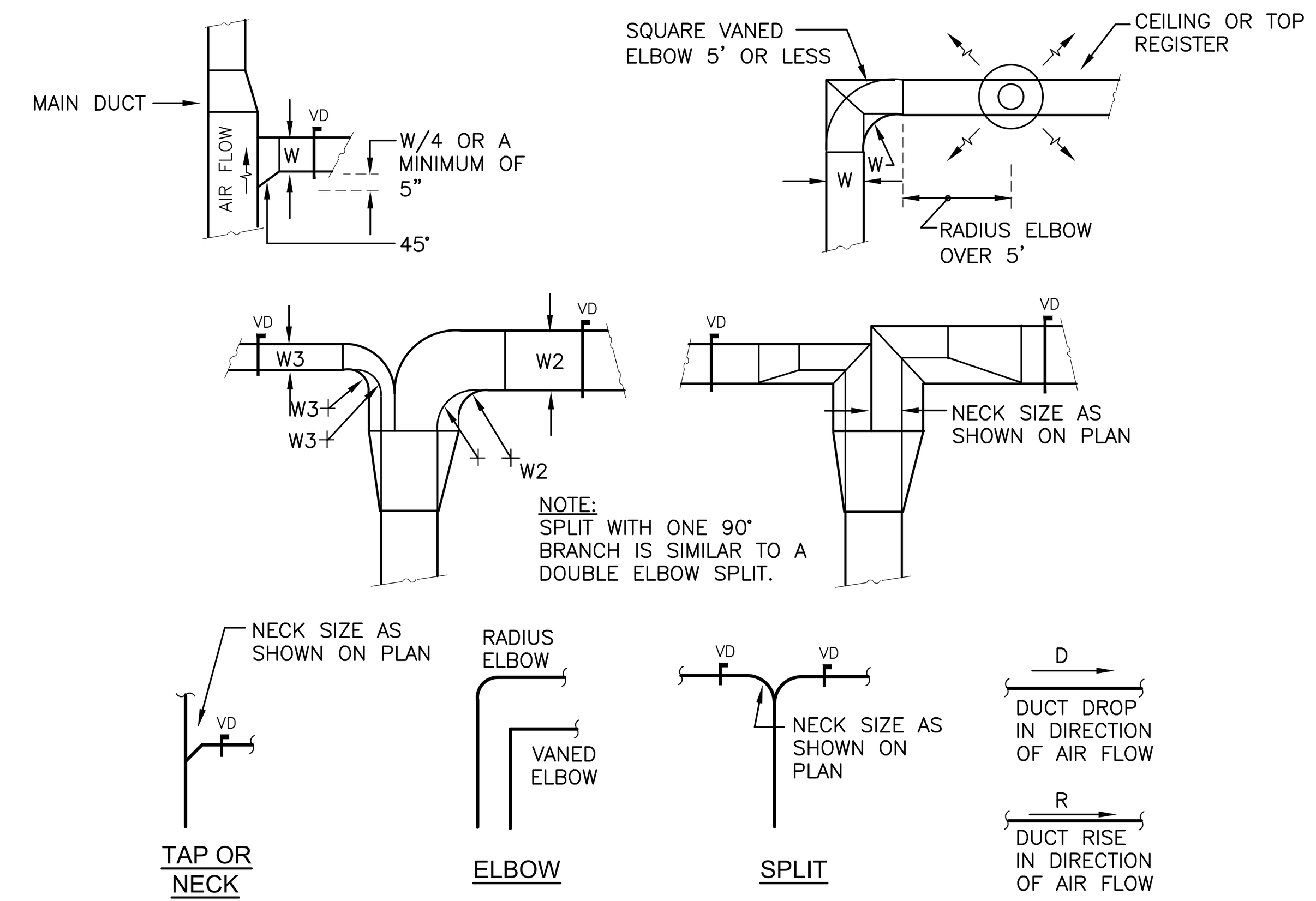
MECHANICAL: DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 M601

M6.01

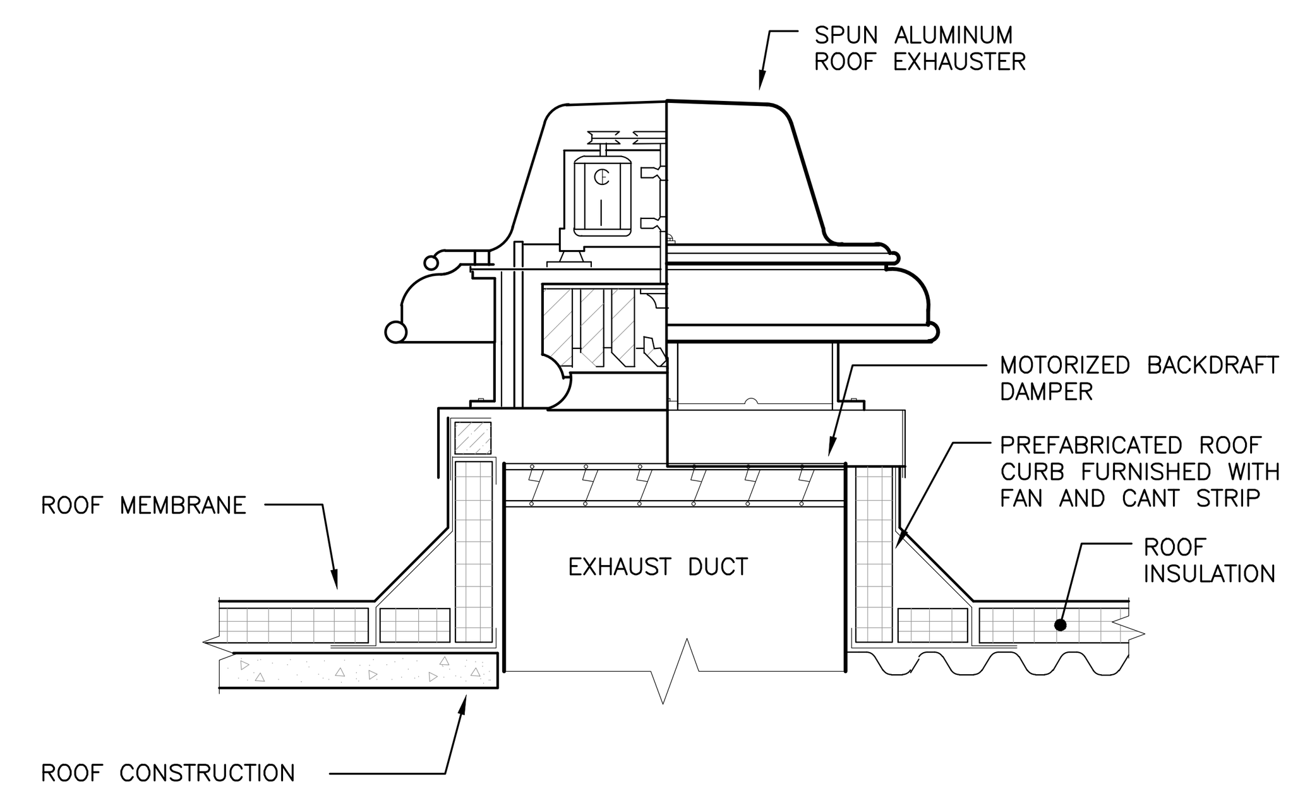


NOTES:

1. SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
2. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
3. ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
4. WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
5. USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1/M6.02 DUCT BRANCH TAKE-OFF DETAIL

NOT TO SCALE

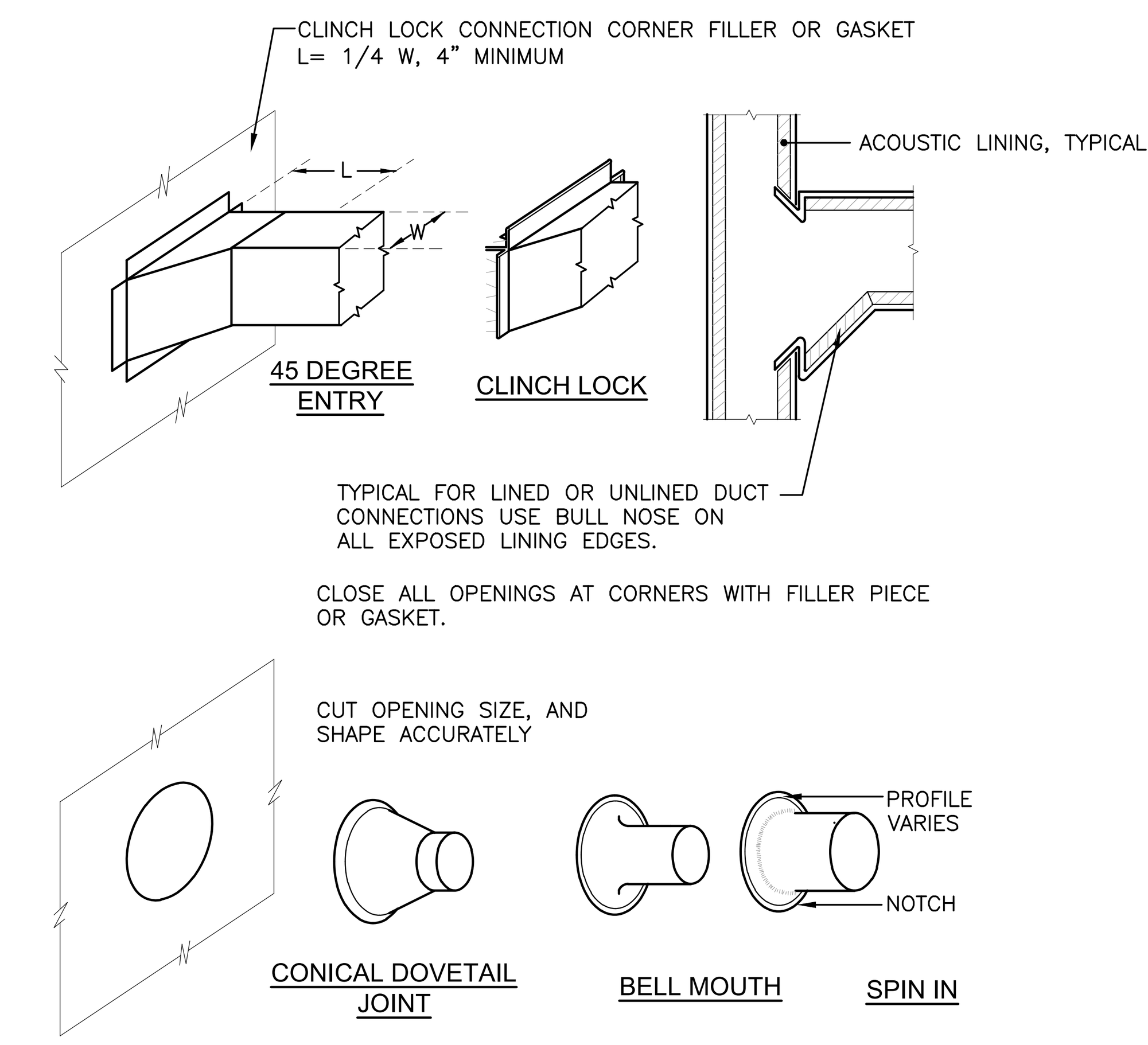


NOTES:

1. ROOF CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. REFER TO ARCHITECTURAL ROOF DETAILS FOR MORE INFORMATION.
2. COORDINATE ROOF OPENINGS AS REQUIRED FOR MECHANICAL WORK WITH GENERAL CONTRACTOR.
3. DETAIL SIMILAR FOR UPBLAST TYPE EXHAUST FANS.

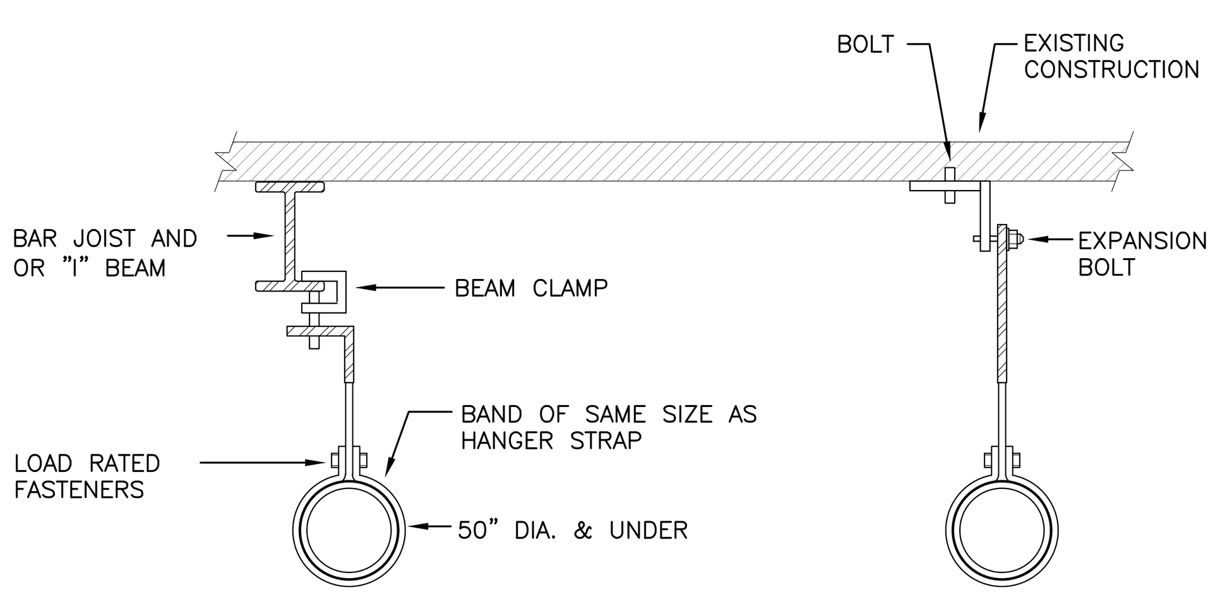
2/M6.02 ROOFTOP EXHAUST FAN DETAIL

NOT TO SCALE



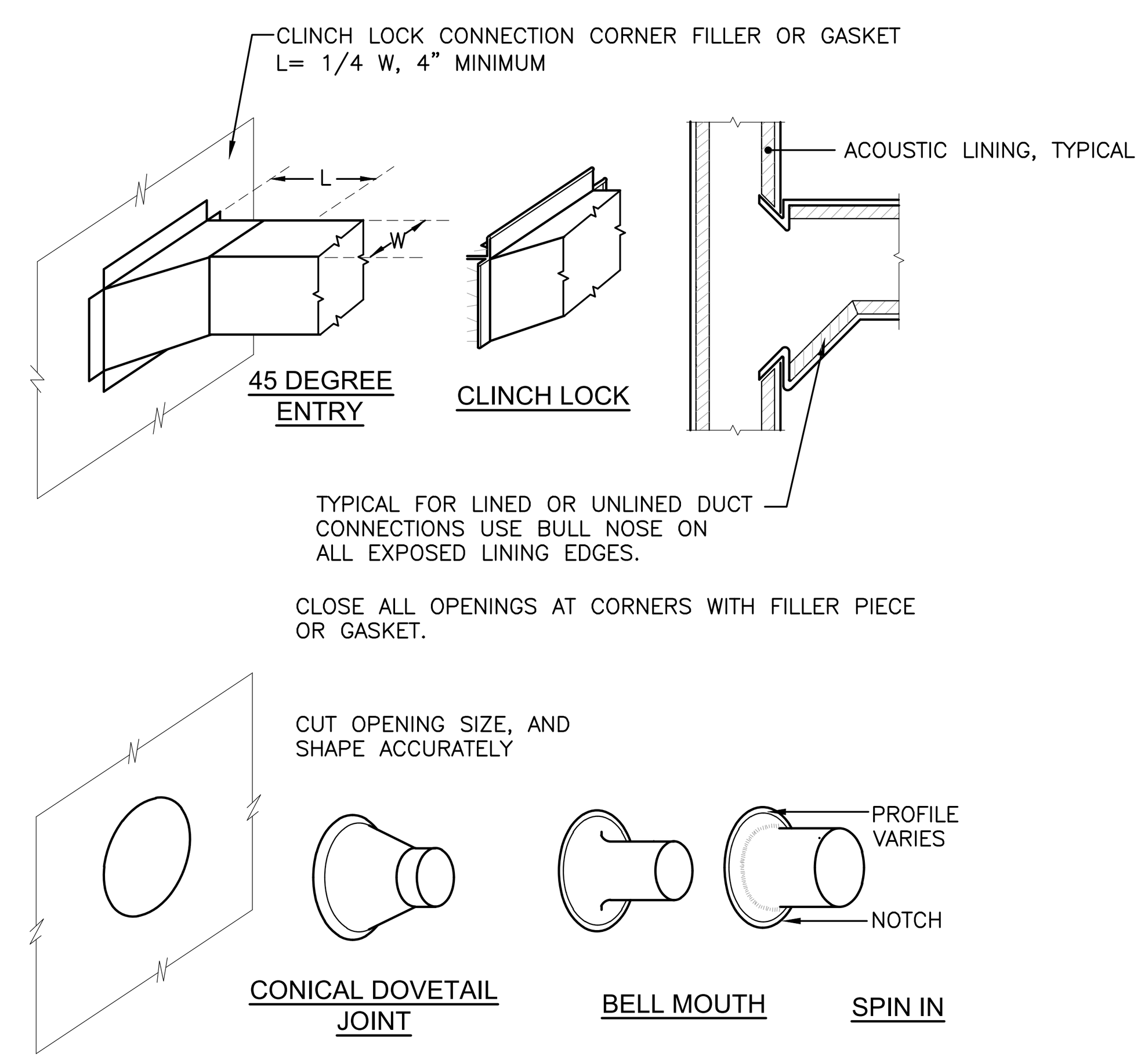
3/M6.02 DUCT BRANCH CONNECTION DETAIL

NOT TO SCALE



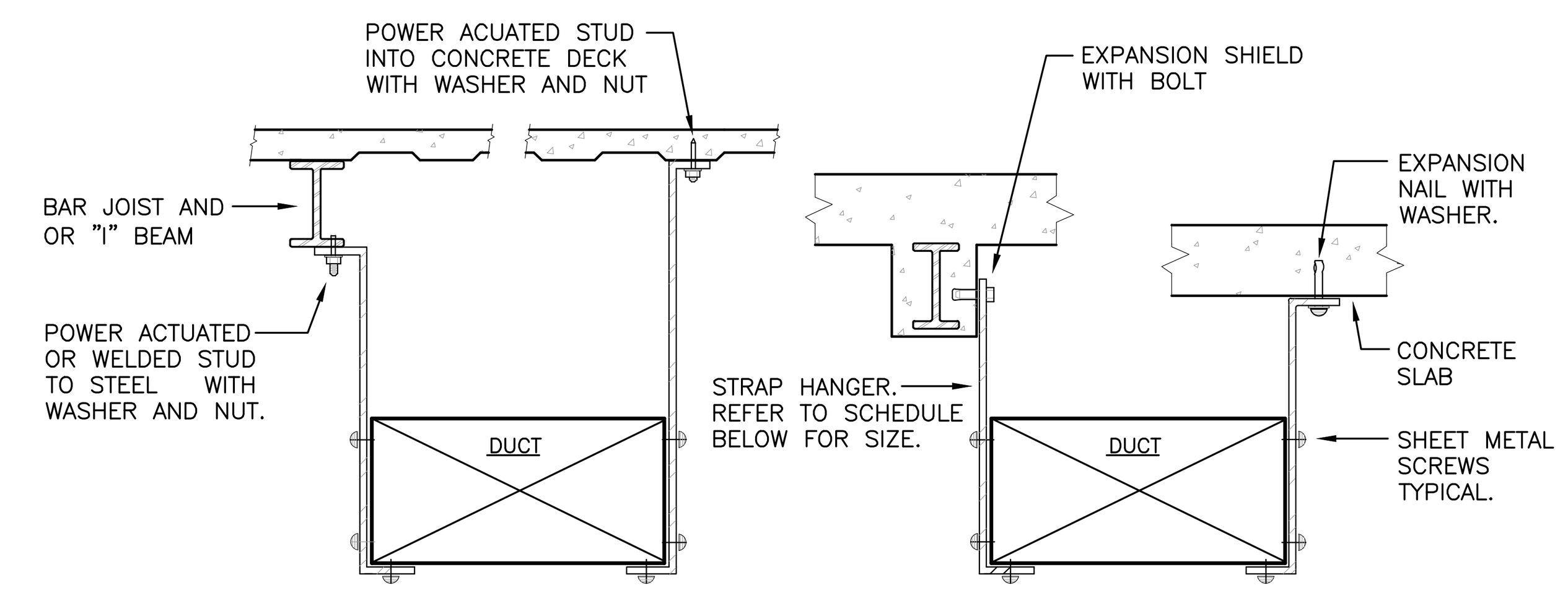
4/M6.02 ROUND DUCT HANGER DETAIL

NOT TO SCALE



5/M6.02 DUCT BRANCH CONNECTION DETAIL

NOT TO SCALE



HANGER STRAP SCHEDULE

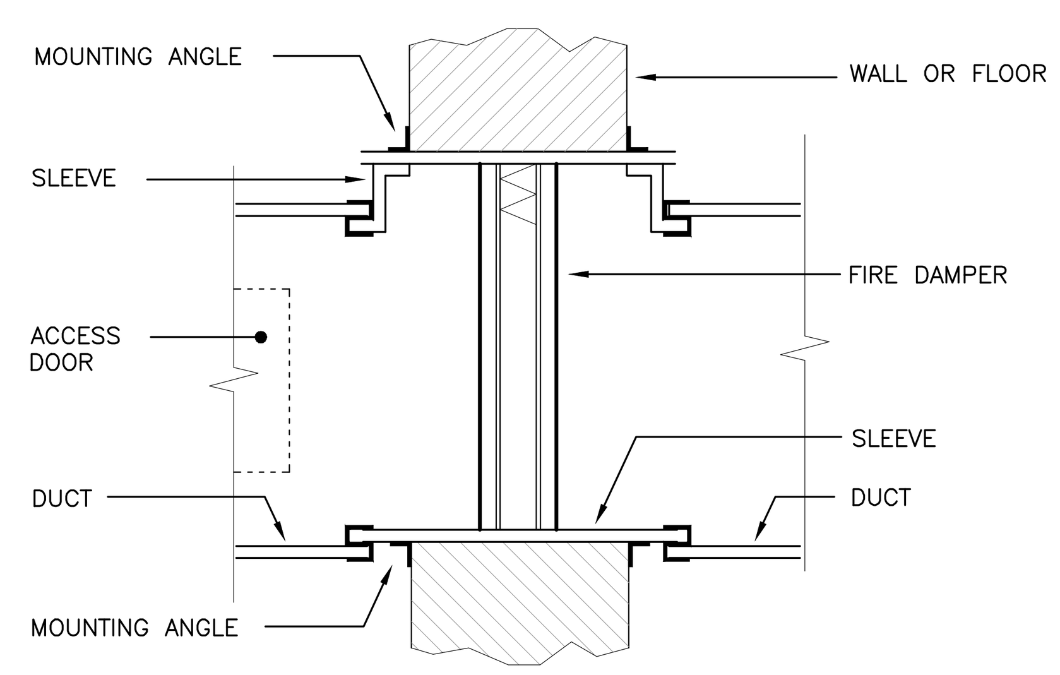
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

NOTES:

1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
2. WHERE BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

6/M6.02 DUCT HANGER DETAIL

NOT TO SCALE

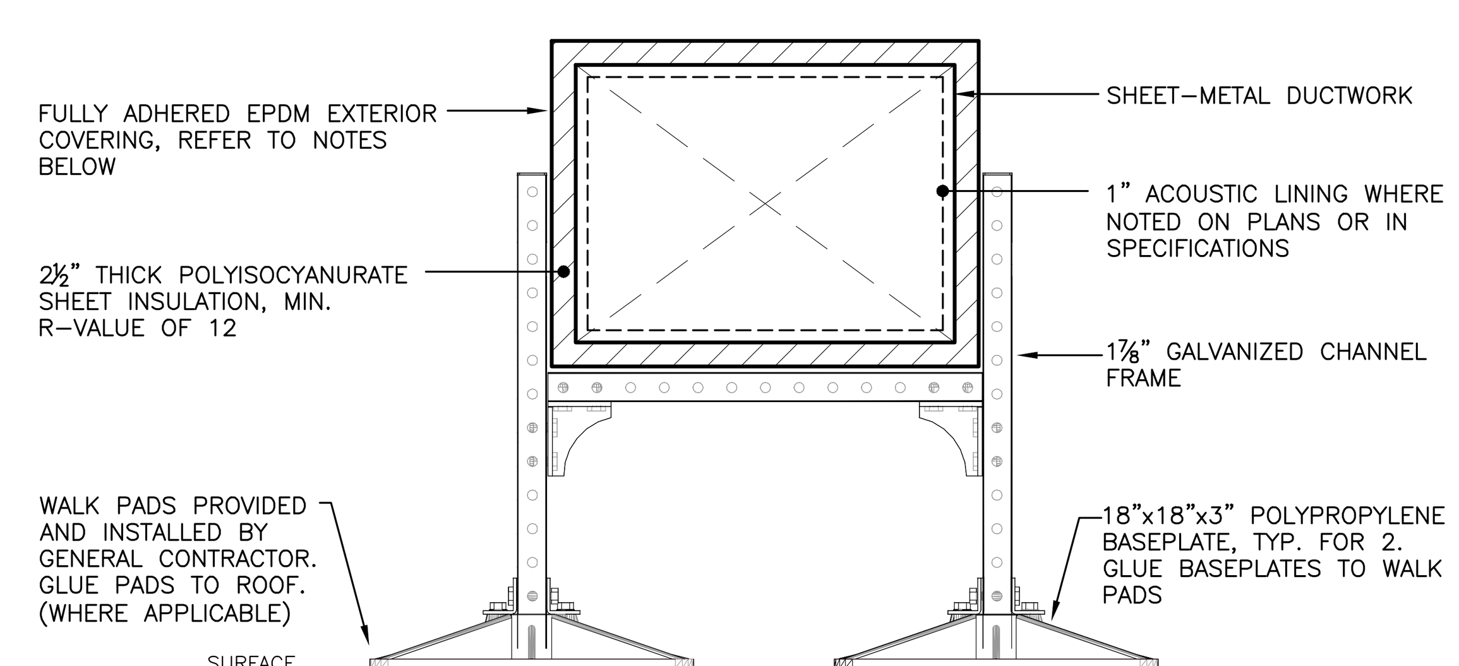


INSTALLATION REQUIREMENTS

1. REQUIREMENTS FOR AN APPROVED INSTALLATION INCLUDE THE FOLLOWING: OPENINGS IN THE FLOOR OR WALL SHALL BE ⅛" PER FOOT LARGER THAN DAMPER DIMENSIONS (3/16" LARGER PER FOOT FOR STAINLESS). MINIMUM CLEARANCE OF ¼" REQUIRED FOR ANY INSTALLATION.
2. SLEEVE GAGE SHALL BE AT LEAST EQUAL TO THE GAGE OF THE DUCT AS DEFINED BY THE APPROPRIATE SMACNA DUCT CONSTRUCTION STANDARD, AS DESCRIBED IN NFPA90A. WHEN ONE OR MORE OF THE FOLLOWING DUCT CONNECTIONS ARE USED, PLAIN S SLIP, HEMMED S SLIP, STANDING S SLIP, REINFORCED STANDING S SLIP, INSIDE SLIP JOINT, OR DOUBLE S SLIP.
3. IF ANY OTHER DUCT SLEEVE CONNECTIONS ARE USED, THE SLEEVE SHALL BE MINIMUM 16 GAGE FOR DAMPERS UP TO 36" (W) x 24" (H) AND 14 GAGE IF WIDTH EXCEEDS 36" OR HEIGHT EXCEEDS 24".
4. MOUNTING ANGLES SHALL BE MINIMUM OF 1½" x 1½" x 14" GAGE AND BOLTED. TACK WELDED PR SCREWED TO SLEEVE AT MAXIMUM SPACING OF 12" AND WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE, TOP AND BOTTOM. MOUNTING ANGLES SHALL OVERLAP WALL A MINIMUM OF ONE INCH ON ALL FOUR SIDES.
5. DAMPER SHALL BE BOLTED, TACK WELDED, OR SCREWED TO SLEEVE ON SAME SPACING AS ANGLES. SLEEVES SHALL NOT EXTEND MORE THAN 6" OUTSIDE OF WALL.
6. IF GAP BETWEEN DUCT/SLEEVE AND CONSTRUCTION IS 1" OR LESS, PACK SPACE WITH FIREPROOF FIBROUS MATERIAL AND SEAL BOTH SIDES WITH NON-HARDENING FIREPROOF SEALER. IF GAP EXCEEDS 1", WRAP DUCT WITH 1" THICK FIREPROOF FIBROUS MATERIAL AND FILL REMAINING SPACE WITH GROUT.
7. ALL FIRE DAMPERS IN DUCTWORK SERVING AUDITORIUM SHALL HAVE BLADES OUT OF AIRSTREAM.

7/M6.02 FIRE DAMPER DETAIL

NOT TO SCALE

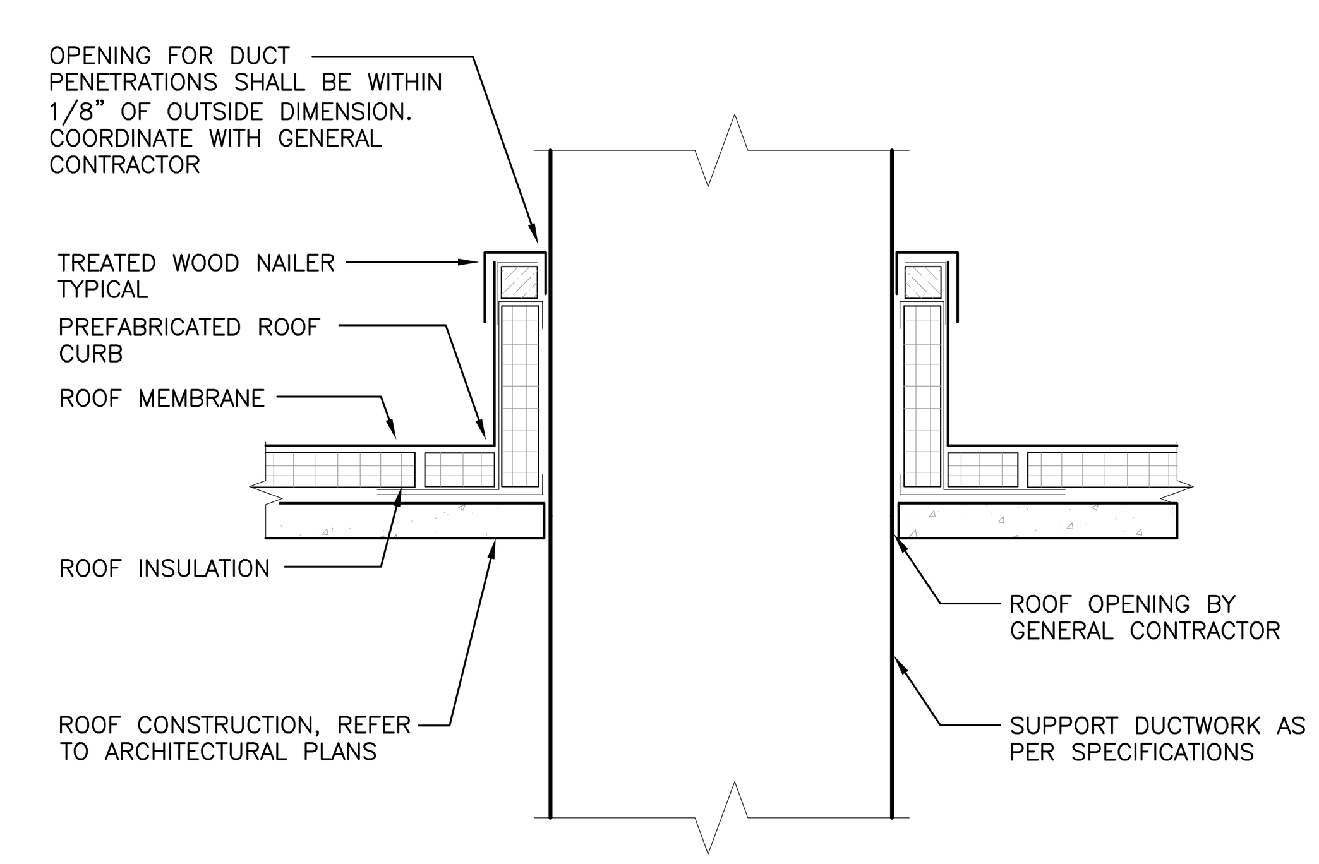


NOTES

1. ROOF DUCT SUPPORT SHALL BE BASED ON PHP SYSTEMS/DESIGN MODEL NUMBER PHP-D.
2. ALL BRACKETS, HANGERS, FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED OR NICKEL PLATED
3. USE ONLY THOSE MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM, REFER TO ARCHITECTURAL DRAWINGS.
4. SEAL ALL EXTERIOR DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE-SEAL CLASS A. SEAL ALL DUCT JOINTS AND MAKE WATER-TIGHT.
5. DUCT SUPPORTS ON ROOF SHALL SIT ON WALK PADS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
6. INSULATION INSTALLED ON THE TOP OF THE DUCTWORK SHALL BE SLOPED 1/2" PER FOOT.
7. INSULATION SHALL BE FASTENED TO THE DUCTWORK WITH SCREWS AND PLATES INSTALLED 12" ON CENTER IN ALL DIRECTIONS.
8. INSULATION SHALL BE COVERED WITH 60 MIL THICK, FIRE RATED, FULLY ADHERED EPDM BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL APPLY TWO ROLLER COATS OF WHITE ACRYLIC LATEX COATING TO EXTERIOR.

8/M6.02 INSULATED EXTERIOR DUCT SUPPORT DETAIL

NOT TO SCALE



NOTES

1. INSULATED PREFABRICATED ROOF CURB SHALL BE BASED ON THYCURB MODEL TC-3. ROOF CURB SHALL BE CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL WITH FULLY WELDED CORNERS, FACTORY INSTALLED WOOD NAILERS, REINFORCED SIDES, GASKETING, AND 1½" THICK 3-POUND DENSITY RIGID INSULATION. CURB HEIGHT SHALL BE 24" MINIMUM. ROOF CURB SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR SHALL MAKE PENETRATION WEATHER-TIGHT, REFER TO ARCHITECTURAL AND ROOFING DRAWINGS.
3. THIS DETAIL SHALL BE USED FOR ALL DUCT PENETRATIONS THROUGH ROOF.

9/M6.02 ROOF DUCT PENETRATION DETAIL

NOT TO SCALE

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MECHANICAL: DETAILS

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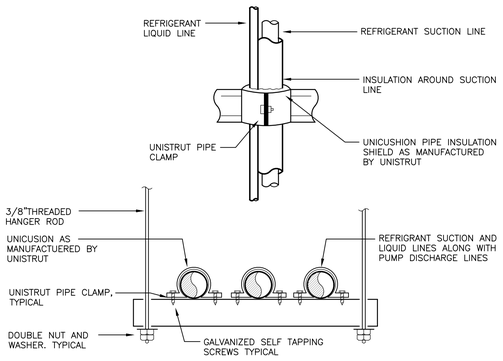
Job No. 4.1552.01
File No. 4155201 M602

M6.02

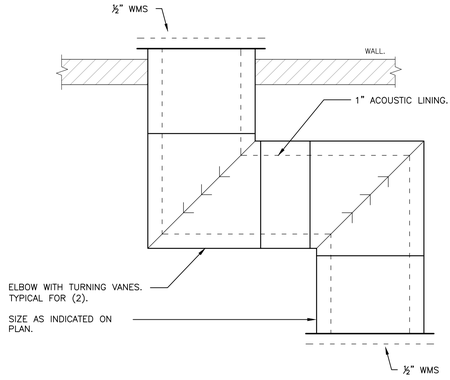


NOTES:

1. LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2. LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3. USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
4. SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

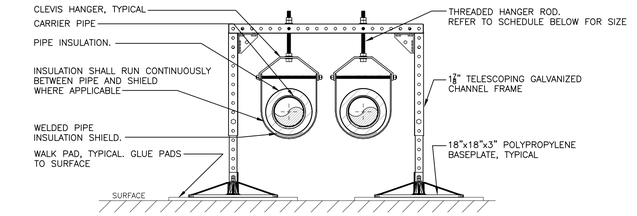
1 M6.03 REFRIGERANT PIPE SUPPORT DETAIL

NOT TO SCALE



2 M6.03 TRANSFER DUCT DETAIL

NOT TO SCALE



PIPE HANGER SCHEDULE

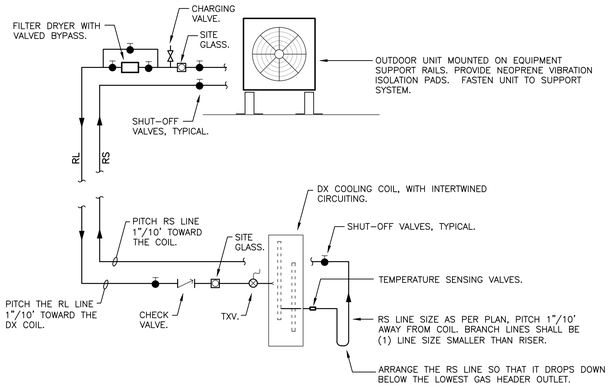
PIPE DIA.	1/2"–1"	1 1/4"–3"	4"–5"	6"	8"–12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:

1. PIPE SUPPORT SYSTEM SHALL BE BASED ON PHP SYSTEMS/DESIGN MODEL NUMBER PSE–CUSTOM OR PSE–2–2 DEPENDING ON NUMBER OF PIPES SUPPORTED.
2. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES R4 LARGER THAN 1".
3. BOTTOM OF PIPE ELEVATION SHALL BE MIN. OF 2'–0" ABOVE GRADE. PIPING SHALL BE INSTALLED AS TO ELIMINATE ANY UNNECESSARY OFFSETS UP OR DOWN.
4. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
5. FOR NON–INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI–ELECTRIC BETWEEN PIPE AND HANGERS.
6. ALL PIPE SUPPORT COMPONENTS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
7. THIS CONTRACTOR SHALL VERIFY SIZE AND NUMBER OF PIPES TO BE SUPPORTED BASED ON FINAL LAYOUT.
8. THIS DETAIL TO BE USED FOR STANDARD PIPE SUPPORT LOCATIONS. FOR PIPE GUIDES AND ANCHORS USE DETAIL ON M–4.

3 M6.03 EXTERIOR PIPE SUPPORT DETAIL

NOT TO SCALE



NOTES:

1. PROVIDE (1) ONE TRAP AT THE BOTTOM OF SUCTION LINE FOR RISES UP TO 50'–0". FOR RISERS BETWEEN 50'–0" AND 100'–0" PROVIDE A SECOND RISER HALF WAY UP.
2. PIPING SHALL BE INSTALLED SO NOT TO OBSTRUCT SERVICE ACCESS TO EITHER THE INDOOR OR OUTDOOR UNIT.
3. ALL FASTENERS LOCATED OUTDOORS SHALL BE GALVANIZED.
4. SLOPE HORIZONTAL SUCTION LINES APPROXIMATELY 1" EVERY 20 FEET TOWARD OUTDOOR UNIT TO FACILITATE OIL RETURN.
5. NUMBER OF REFRIGERANT LINE SETS VARY BASED ON SYSTEM, ONE SET SHOWN FOR CLARITY.

NOTES:

1. CONTRACTOR TO SELECT FLASHING BOOT BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. FLASHING BOOT SHALL PROVIDE A WATERTIGHT SEAL.
2. CLEAN AND PREPARE ROOF SURFACE AS REQUIRED FOR INSTALLATION OF FLASHING BOOT AND IN ACCORDANCE WITH ANY SPECIAL REQUIREMENTS PER THE ROOFING MANUFACTURER.
3. COORDINATE QUANTITIES AND SIZES OF PIPE/CONDUIT PENETRATIONS IN THE FIELD WITH CAP AND BOOT REQUIREMENTS.
4. USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

4 M6.03 ROOF PIPE/CONDUIT PENETRATION DETAIL

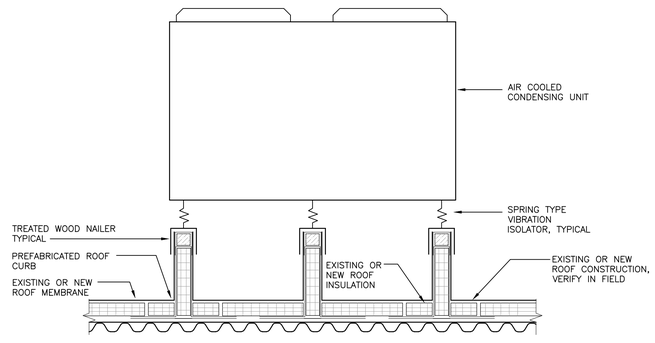
NOT TO SCALE

NOTE:

1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.

5 M6.03 EXTERIOR WALL PIPE PENETRATION DETAIL

NOT TO SCALE

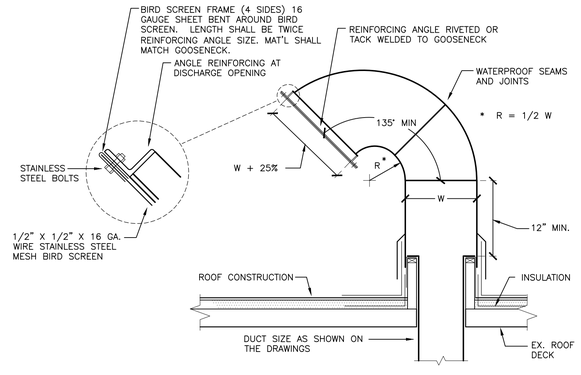


NOTES

1. GENERAL CONTRACTOR SHALL MAKE PENETRATION WEATHER–TIGHT, REFER TO ARCHITECTURAL AND ROOFING DRAWINGS.
2. THIS DETAIL SHALL BE USED FOR ACCU–A, ACCU–B, ACCU–C, ACCU–D, ACCU–4, ACCU–5, AND ACCU–6. PROVIDE (2) RAILS.

7 M6.03 EQUIPMENT SUPPORT RAIL DETAIL

NOT TO SCALE

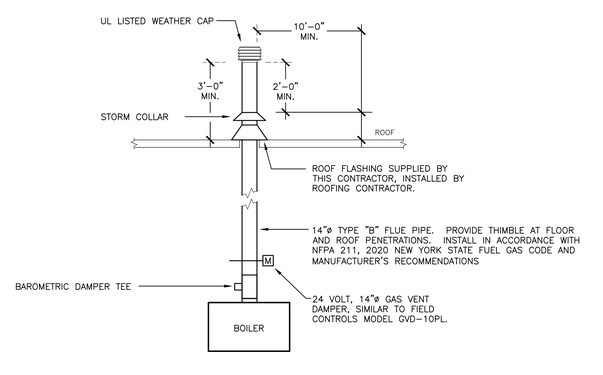


NOTES

1. REFER TO ROOF DUCT PENETRATION DETAIL FOR ROOF CURB INFORMATION.
2. GENERAL CONTRACTOR SHALL MAKE PENETRATION WEATHER–TIGHT, REFER TO ARCHITECTURAL AND ROOFING DRAWINGS. REFER TO ARCHITECTURAL ROOF DETAILS FOR MORE INFORMATION.
3. EXPOSED DUCTWORK SHALL BE PREPARED, PRIMED AND PAINTED BY GENERAL CONTRACTOR. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.
4. SEAL ALL EXTERIOR DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE SEAL CLASS A. SEAL ALL DUCT JOINTS AND MAKE WATER–TIGHT.

8 M6.03 GOOSENECK DETAIL

NOT TO SCALE



NOTES:

1. BREECHING AND FLUE PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH NFPA 211, 2020 NEW YORK STATE FUEL GAS CODE AND MANUFACTURER'S RECOMMENDATIONS. OBSERVE ALL CLEARANCES TO COMBUSTIBLES.
2. COMBUSTION AIR DAMPER AND GAS VENT DAMPER OPERATION SHALL BE TIED TO HEATER OPERATION. WHEN HEATER IS CALLED TO OPERATE THE GAS VENT DAMPER AND COMBUSTION AIR DAMPER SHALL OPEN. ONCE DAMPER HAS BEEN PROVEN TO BE IN FULL OPEN POSITION THE HEATER SHALL TURN ON. WHEN THE HEATER TURNS OFF THE COMBUSTION AIR DAMPER AND GAS VENT DAMPER SHALL CLOSE. PROVIDE ALL REQUIRED WIRING, RELAYS, SWITCHES, TRANSFORMERS, SENSORS, AND ETC. AS REQUIRED TO ACHIEVE SEQUENCE OF OPERATION SPECIFIED.

6 M6.03 DX SPLIT-SYSTEM AC UNIT PIPING SCHEMATIC

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9 M6.03 BOILER FLUE PIPING DETAIL

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MECHANICAL:
DETAILS

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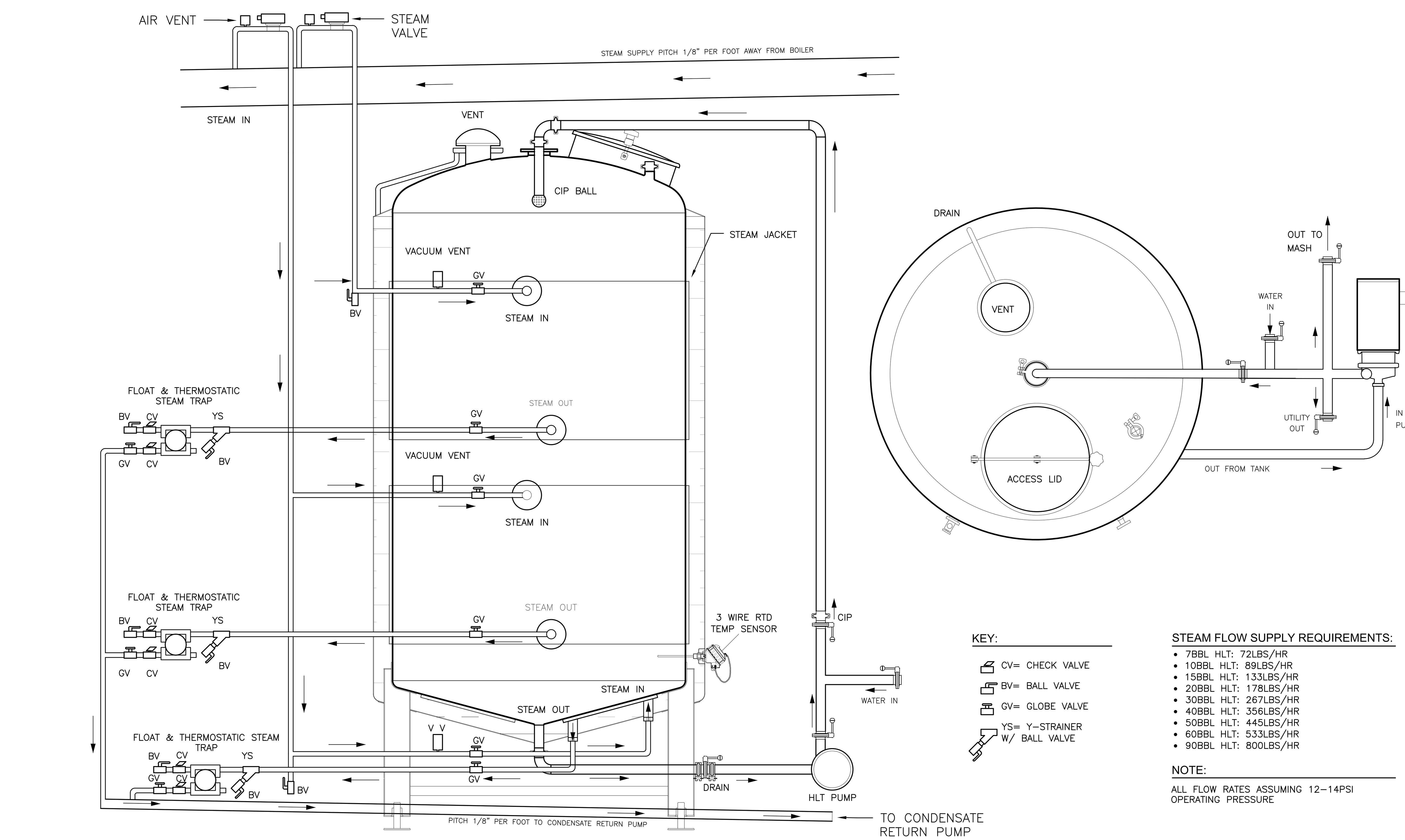
M6.03

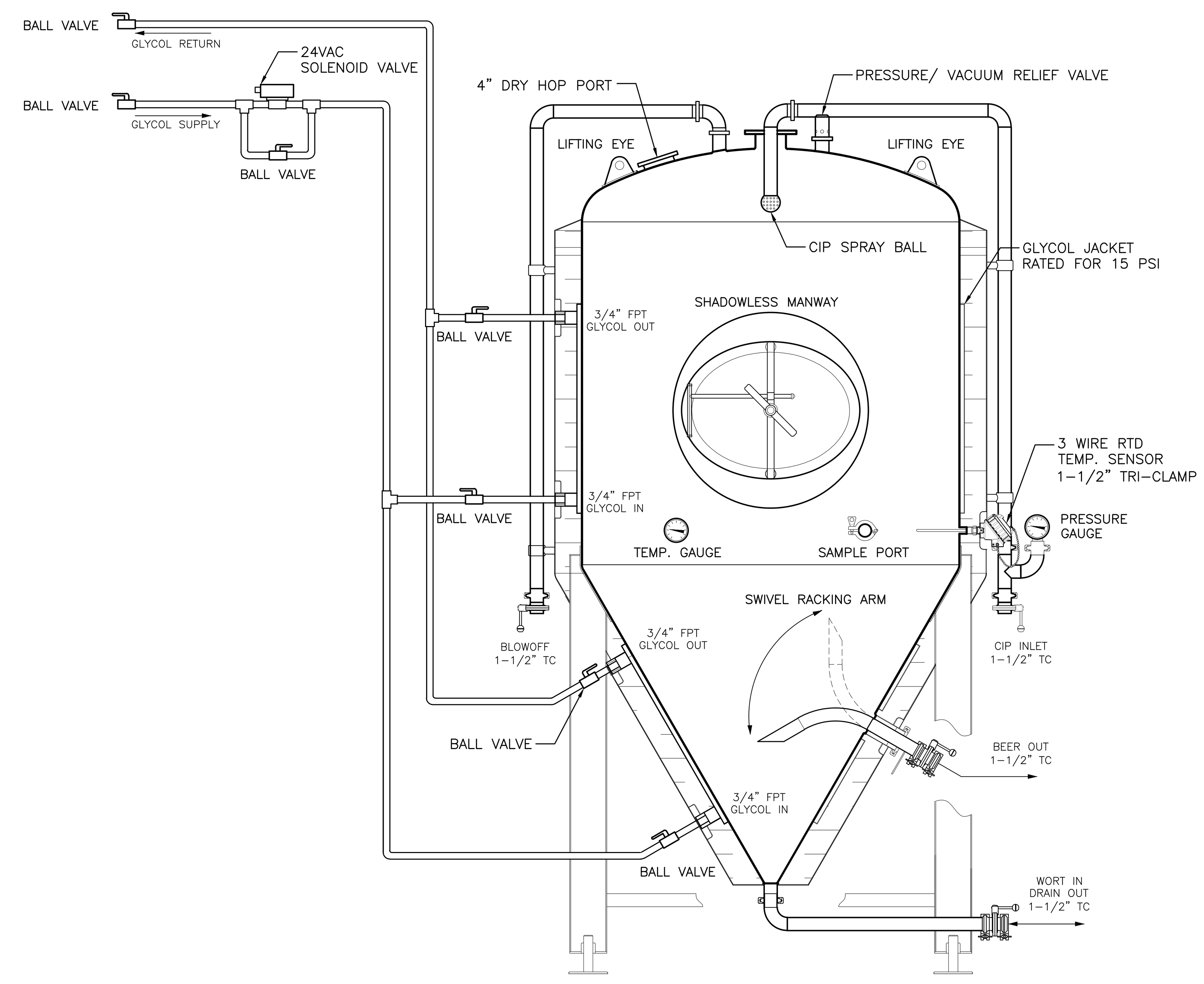


KEY:
- CV= CHECK VALVE
- BV= BALL VALVE
- GV= GLOBE VALVE
- YS= Y-STRAINER W/ BALL VALVE

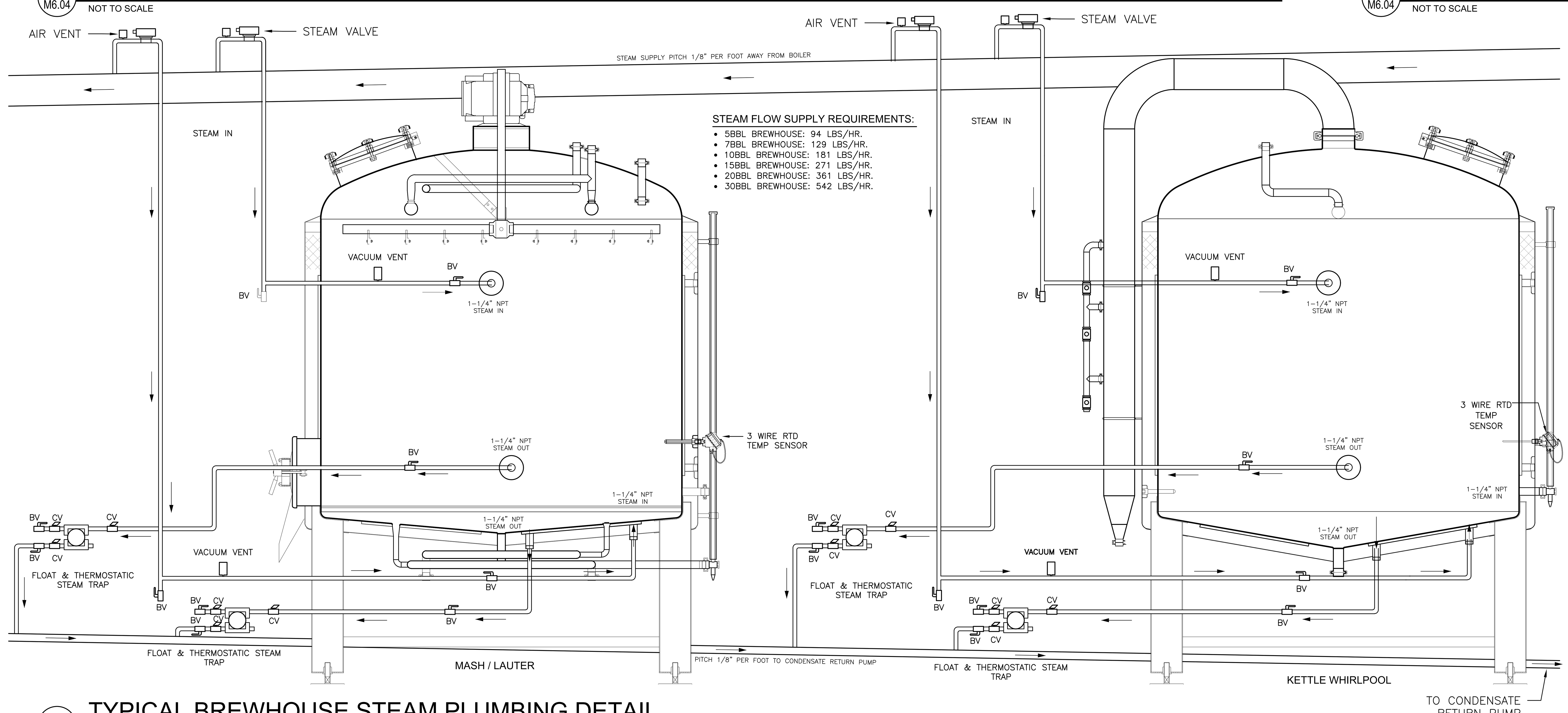
STEAM FLOW SUPPLY REQUIREMENTS:
- 7BBL HLT: 72LBS/HR
- 10BBL HLT: 89LBS/HR
- 15BBL HLT: 133LBS/HR
- 20BBL HLT: 178LBS/HR
- 30BBL HLT: 267LBS/HR
- 40BBL HLT: 356LBS/HR
- 50BBL HLT: 445LBS/HR
- 60BBL HLT: 533LBS/HR
- 90BBL HLT: 800LBS/HR

NOTE:
ALL FLOW RATES ASSUMING 12-14PSI OPERATING PRESSURE

1 M6.04 HLT STEAM PLUMBING DETAIL
NOT TO SCALE

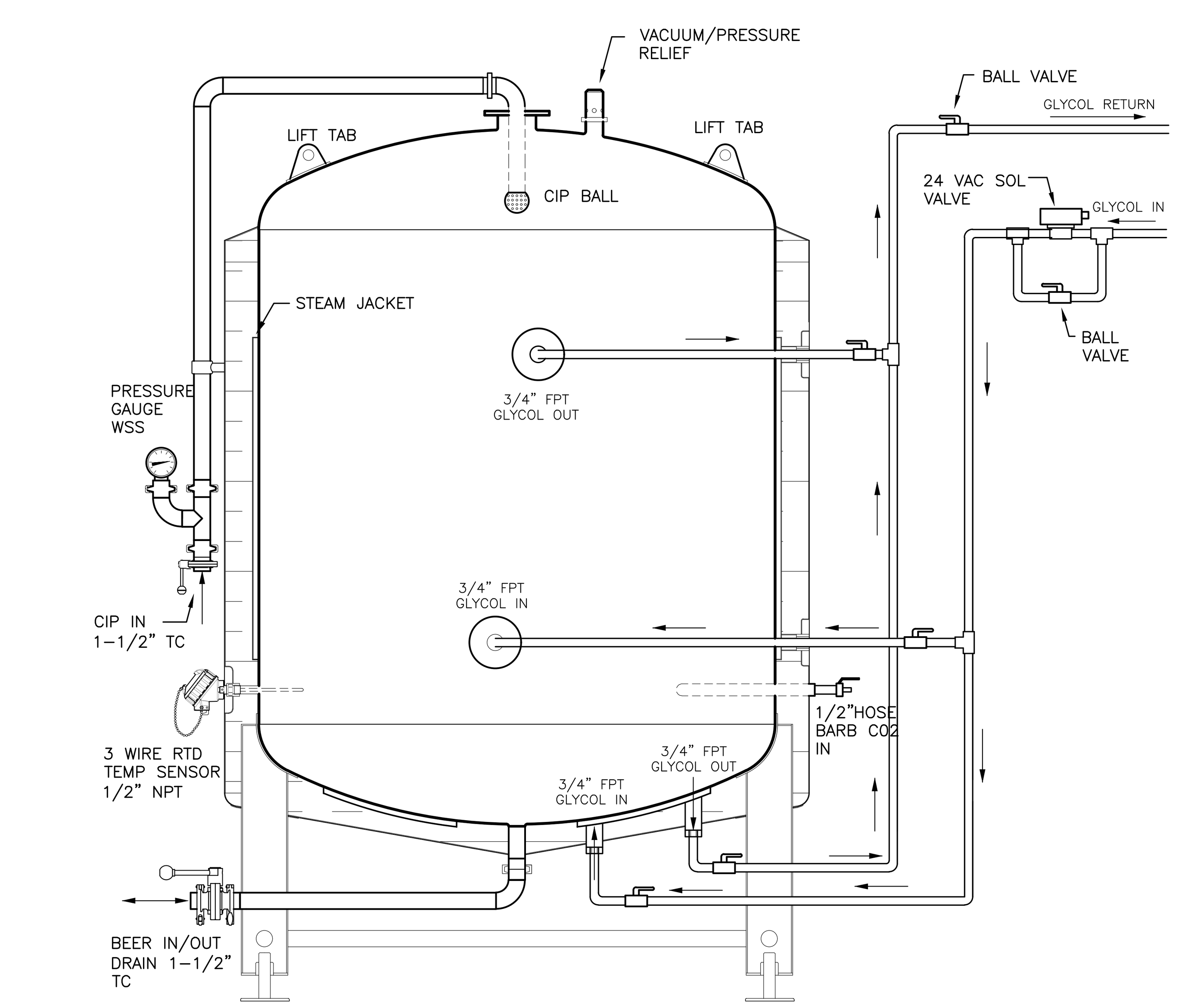


2 M6.04 FERMENTER GLYCOL PLUMBING DETAIL
NOT TO SCALE



STEAM FLOW SUPPLY REQUIREMENTS:
- 5BBL BREWHOUSE: 94 LBS/HR.
- 7BBL BREWHOUSE: 129 LBS/HR.
- 10BBL BREWHOUSE: 181 LBS/HR.
- 15BBL BREWHOUSE: 271 LBS/HR.
- 20BBL BREWHOUSE: 361 LBS/HR.
- 30BBL BREWHOUSE: 542 LBS/HR.

3 M6.04 TYPICAL BREWHOUSE STEAM PLUMBING DETAIL
NOT TO SCALE



4 M6.04 BRITE TANK PLUMBING DETAIL
NOT TO SCALE

Date	10/15/21
Checked	SZ
Drawn	BH/DC/KC

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Revisions:
1 PERMIT SET 10/15/21

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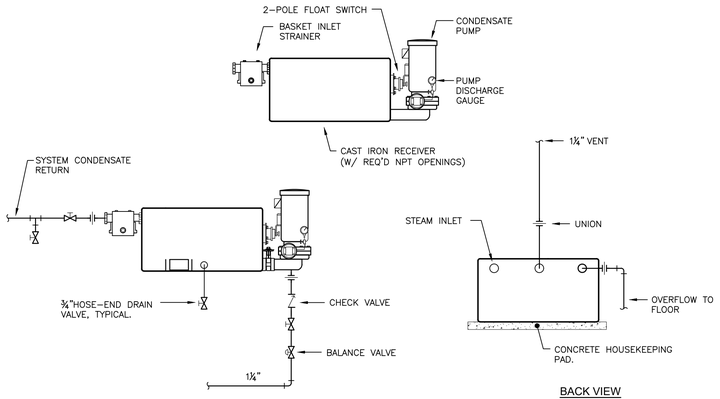
MECHANICAL: DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 M604

M6.04

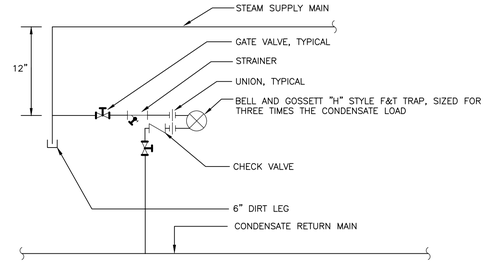


NOTES:

1. PROVIDE PIPE HANGERS WITH MINIMUM 1/2" STATIC DEFLECTION SPRING TYPE VIBRATION ISOLATORS FOR HANGERS WITHIN 50 PIPE DIAMETERS OF PUMP DISCHARGE.

1 M6.05 STEAM CONDENSATE PUMP PIPING DETAIL

NOT TO SCALE

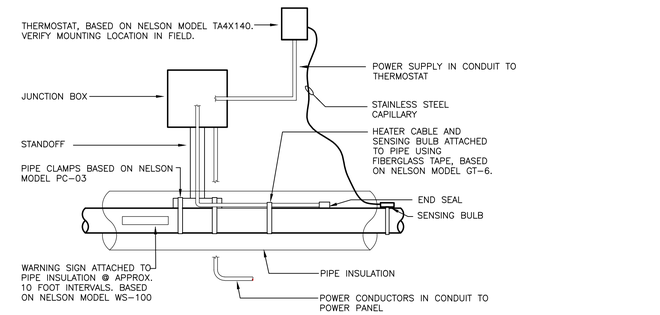


NOTES:

1. INSTALL STEAM MAIN DRIPS EVERY 120 FEET OF STRAIGHT PIPE RUN AND AT THE BOTTOM OF RISERS. STEAM MAIN DRIPS SHALL BE INSTALLED IN ANY LOCATION WHERE THERE IS A CHANCE OF CONDENSATE POOLING.
2. TRAP SIZE SHALL BE MINIMUM OF 1".

5 STEAM MAIN DRIP DETAIL

NOT TO SCALE



NOTES:

1. FREEZE PROTECTION ELECTRIC HEAT TRACING FOR ALL GLYCOL SUPPLY AND RETURN PIPING EXPOSED TO AMBIENT CONDITIONS ON EXTERIOR OF BUILDING SHALL BE BASED ON NELSON TYPE CLT25 SELF-REGULATING HEATER CABLE. HEATER CABLE PERFORMANCE SHALL BE 5 WATTS PER FOOT AT 208V/1ø. SYSTEM SHALL BE UL LISTED.
2. PROVIDE NELSON MODEL PLT-LPM CONNECTION KIT. CONNECTION KIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. HEATER CABLE, WARNING SIGNS, AND THERMOSTAT SENSING BULB SHALL BE ATTACHED TO PIPE BY ELECTRICAL CONTRACTOR.
3. HEAT TRACING CABLE BASED ON FREEZE PROTECTION TO MAINTAIN TEMPERATURE OF 40°F AT -20°F AMBIENT TEMPERATURE.
4. INSTALL CABLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSTALL ALUMINUM FOIL TAPE CONTINUOUSLY ALONG ENTIRE CABLE LENGTH (ABOVE AND BELOW CABLE). TAPE BASED ON NELSON AT-50.

2 M6.05 ELECTRIC HEAT TRACE DETAIL

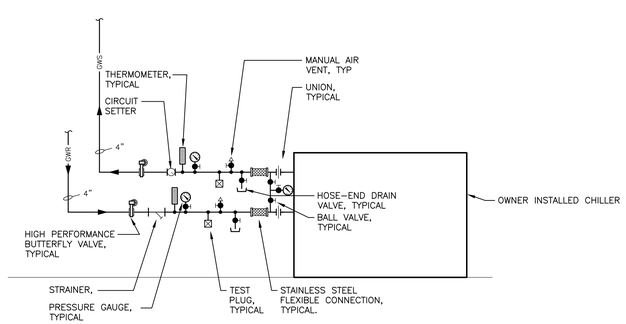
NOT TO SCALE

NOTES:

1. UPON ACTIVATION OF EMERGENCY SHUT-OFF BREAK GLASS STATION, POWER TO THE CONTROL CIRCUIT RELAY SHALL BE INTERRUPTED, DE-ENERGIZING THE PRIMARY CONTROL CIRCUIT TO THE BOILERS AND WATER HEATERS AND THE MAIN FUEL VALVES SHALL CLOSE.
2. THIS CONTRACTOR SHALL PROVIDE ALL WIRING, CONDUIT, RELAYS, SOLENOID GAS VALVES, AND ETC AS REQUIRED FOR SHUT-DOWN.
3. PROVIDE SIGNAGE AT EACH LOCATION CLEARLY IDENTIFYING EMERGENCY SHUT-OFF BREAK GLASS STATIONS.

8 M6.05 EMERGENCY BREAK GLASS STATION SCHEMATIC

NOT TO SCALE



3 M6.05 CHILLER PIPING DETAIL

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MECHANICAL:
DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 M605

M6.05

GENERAL HVAC NOTES

1. ALL MECHANICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 MECHANICAL CODE, FIRE CODE, PLUMBING CODE, FUEL GAS CODE, BUILDING CODE, AND ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
2. MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE MECHANICAL SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
3. MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT TO OWNER'S REPRESENTATIVE FOR APPROVAL. DEMONSTRATE NEW MECHANICAL SYSTEMS TO OWNER'S REPRESENTATIVES AND REVIEW MAINTENANCE PROCEDURES.
4. MECHANICAL CONTRACTOR SHALL SEAL AROUND ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS WITH HILTI INTUMESCENT FIRE STOP MATERIALS TO MAINTAIN FIRE AND SMOKE RATINGS. DUCTS PENETRATING FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE INSTALLED WITH FIRE DAMPER AND ACCESS DOORS WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
5. MECHANICAL CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT.
6. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
7. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (120V AND 24V) FOR SYSTEMS SHOWN ON MECHANICAL DRAWINGS AND DESCRIBED IN MECHANICAL SPECIFICATIONS, INCLUDING ALL RELAYS, TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
8. MECHANICAL CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
9. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK.
10. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING MECHANICAL CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DUCT STANDARDS. PROVIDE RADIUS TURNS OR TURNING VANES ON ALL CHANGES IN DIRECTION IN ACCORDANCE WITH SMACNA STANDARDS.
11. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION IN EMT CONDUIT. 120V/1 – MINIMUM CONDUCTOR SIZE #12. 24V – MINIMUM CONDUCTOR SIZE #18. MINIMUM CONDUIT SIZE SHALL BE ¾". CONDUIT INSTALLED OUTDOORS SHALL BE GALVANIZED.
12. ALL DUCTWORK SHALL BE FABRICATED WITH MINIMUM 26 GAGE GALVANIZED STEEL INCLUDING ROUND DUCTS.
13. FINAL LOCATIONS OF ALL THERMOSTATS AND SENSORS SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION, COORDINATE IN FIELD. THERMOSTATS AND SENSORS SHALL BE LOCATED 4'–0" ABOVE FINISHED FLOOR.
14. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES AND DUCT ACCESSORIES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE INSTALLED BY GENERAL CONTRACTOR.
15. MECHANICAL CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS AND CEILINGS.
16. MECHANICAL CONTRACTOR SHALL PROVIDE ALL AIR BALANCING FOR ALL NEW MECHANICAL SYSTEMS. PROVIDE ALL NECESSARY MOTOR, DRIVE, BELT CHANGES AND ETC. SEE SPECIFICATIONS FOR BALANCE PROCEDURES AND ADDITIONAL REQUIREMENTS. CONTRACTOR SHALL COMFORT BALANCE ALL MECHANICAL SYSTEMS TO THE SATISFACTION OF ENGINEER/ARCHITECT.
17. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUPPLEMENTAL STRUCTURAL STEEL SUPPORT ASSOCIATED WITH NEW MECHANICAL EQUIPMENT HUNG OR SUPPORTED FROM OR ON THE BUILDING STRUCTURE. MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO STEEL FABRICATION AND INSTALLATION OF EQUIPMENT.
18. MECHANICAL CONTRACTOR SHALL SUBMIT PIPING AND DUCTWORK FULLY COORDINATED SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE REVIEW.
19. MECHANICAL CONTRACTOR SHALL INCLUDE IN BID ALL MATERIALS, RIGGING AND LABOR REQUIRED FOR THE COMPLETE AND PROPER INSTALLATION OF THE MECHANICAL SYSTEM.
20. MECHANICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK, AND COORDINATE WORK WITH ALL OTHER TRADES.
21. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES.
22. PROVIDE VOLUME DAMPERS ON ALL EXHAUST, SUPPLY AND RETURN BRANCH DUCTWORK, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT.
23. PROVIDE 1" ACOUSTIC LINING IN DUCTWORK A MINIMUM OF 25'–0" FROM INLET AND OUTLET OF ALL FANS. THE FIRST FIGURE OF DUCT SIZE INDICATE DIMENSION OF FACE SHOWN OR INDICATED. DUCT DIMENSIONS SHOWN ON DRAWINGS REFER TO INSIDE CLEAR DIMENSIONS. WHERE DUCTWORK IS LINED, THE CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
24. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT SHALL BE HEAVY DUTY TYPE AND SHALL BE NEMA 3R WHEN LOCATED OUTSIDE.
25. MECHANICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
26. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START–UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
27. MECHANICAL CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS–BUILT) DRAWINGS OF ALL COMPLETED WORK. MECHANICAL CONTRACTOR SHALL ENGAGE A FACTORY AUTHORIZED REPRESENTATIVE TO PERFORM START–UP PROCEDURES.
28. ALL PIPING SHALL BE TESTED AS HEREINAFTER SPECIFIED. TESTS SHALL BE MADE AFTER ERECTION AND BEFORE COVERING IS APPLIED OR PIPING PAINTED OR CONCEALED AND AS SECTIONS OF MAINS AND GROUPS OR RISERS ARE COMPLETED. WHERE CONTROLS AND ACCESSORIES ARE NOT DESIGNED TO WITHSTAND PIPE TEST PRESSURES, THEY SHALL BE PROPERLY PROTECTED AGAINST DAMAGE DURING SUCH TESTS.
A. REFRIGERANT PIPING – TESTS SHALL INCLUDE BOTH HIGH AND LOW PRESSURE SIDES OF EACH SYSTEM AT NOT LESS THAN THE LOWER OF THE DESIGN PRESSURE OR THE SETTING OF THE PRESSURE RELIEF DEVICES. DESIGN PRESSURES FOR TESTING SHALL BE THOSE LISTED ON THE CONDENSING UNITS, COMPRESSORS OR COMPRESSOR UNIT NAMEPLATE, AS REQUIRED BY ASHRAE 15–1994. TESTS SHALL BE PERFORMED WITH AN INERT DRIED GAS. PROVIDE CERTIFICATE OF TEST INDICATING NAME OF REFRIGERANT AND FIELD TEST PRESSURE.
29. MECHANICAL CONTRACTOR SHALL TRAIN STAFF ON USE OF MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL ENGAGE A FACTORY AUTHORIZED REPRESENTATIVE TO PERFORM THE TRAINING.
30. ALL MECHANICAL SYSTEMS INDICATED ON DRAWINGS SHALL BE COMMISSIONED. MECHANICAL CONTRACTOR SHALL PROVIDE ALL SERVICES REQUIRED BY THE OWNER'S COMMISSIONING AGENT AS REQUIRED.
31. INSTALL ALL STEAM SUPPLY, RETURN AND PUMP DISCHARGE PIPING TO PERMIT COMPLETE DRAINAGE.
   - PITCH HORIZONTAL STEAM MAINS, RETURN MAINS, AND BRANCHES DOWNWARD, ¼" PER 10 FEET IN DIRECTION OF FLOW.
   - PITCH STEAM RUNOUTS UPWARD, 3/16" PER FOOT IN DIRECTION OF FLOW.
   - PITCH RETURN BRANCHES AND RUNOUTS DOWNWARD, ¼" PER 10 FEET IN DIRECTION OF FLOW.

MINIMUM HANGER SIZES FOR ROUND DUCT

DIAMETER	MAXIMUM SPACING	WIRE DIAMETER	ROD	STRAP
≤ 10"	12'	—	1/4"	1" X 22 ga.
11" – 18"	12'	—	1/4"	1" X 22 ga.
19" – 24"	12'	—	1/4"	1" X 22 ga.
25" – 36"	12'	—	3/8"	1" X 20 ga.
37" – 50"	12'	—	TWO 3/8"	TWO 1" X 20 ga.
51" – 60"	12'	—	TWO 3/8"	TWO 1" X 18 ga.
61" – 84"	12'	—	TWO 3/8"	TWO 1" X 16 ga.

NOTES:
1. STRAPS AND RODS ARE GALVANIZED STEEL
2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS ONE lb/sf OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

PIPE HANGER SCHEDULE

PIPE SIZE (INCHES)	MAXIMUM HORIZONTAL SPACING (FEET)			SINGLE STEEL ROD HANGER SIZE (INCHES)		HANGER TYPE STEEL	MAXIMUM VERTICAL SPACING (FEET)		
	COPPER TUBE	STEEL PIPE	PVC PIPE	TUBING	PIPING		COPPER TUBE	STEEL PIPE	PVC PIPE
½"	6	8	4	¼"	⅜"	BAND	10	15	10
¾"	6	8	4	¼"	⅜"	BAND	10	15	10
1"	6	8	4	¼"	⅜"	BAND	10	15	10
1¼"	6	9	4	¼"	⅜"	CLEVIS	10	15	10
1½"	6	9	4	¼"	⅜"	CLEVIS	10	15	10
2"	10	10	4	¼"	⅜"	CLEVIS	10	15	10
2½"	10	12	4	⅜"	½"	CLEVIS	10	15	10
3"	10	12	4	⅜"	½"	CLEVIS	10	15	10
4"	—	12	4	½"	⅝"	CLEVIS OR ROLLER	—	15	10
6"	—	12	—	—	¾"	CLEVIS OR ROLLER	—	15	—

NOTES:
1. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS.
2. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.
3. SUPPORT ALL BRANCH PIPING OVER 5'–0" IN LENGTH.
4. USE ROLLER TYPE HANGERS (MSS TYPE 41) WHERE PIPING IS SUBJECT TO MOVEMENT CAUSED BY EXPANSION AND CONTRACTION.
5. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
6. PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING SPECIFIED IN SCHEDULE OR IN ACCORDANCE WITH MSS SP–69.

MINIMUM HANGER SIZES FOR RECTANGULAR DUCT

MINIMUM HALF OF DUCT PERIMETER	PAIR AT 10Ft SPACING		PAIR AT 8Ft SPACING		PAIR AT 5Ft SPACING		PAIR AT 4Ft SPACING	
	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD
P/2 = 30"	1" x 22ga	¼"	1" x 22ga	¼"	1" x 22ga	¼"	1" x 22ga	¼"
P/2 = 72"	1" x 18ga	⅜"	1" x 20ga	¼"	1" x 22ga	¼"	1" x 22ga	¼"
P/2 = 96"	1" x 16ga	⅜"	1" x 18ga	⅜"	1" x 20ga	⅜"	1" x 22ga	⅜"
P/2 = 120"	1½" x 16ga	½"	1" x 16ga	⅜"	1" x 18ga	⅜"	1" x 20ga	⅜"
P/2 = 168"	1½" x 16ga	½"	1" x 16ga	½"	1" x 16ga	⅜"	1" x 18ga	⅜"
P/2 = 192"	–	–	1" x 16ga	½"	1" x 16ga	⅜"	1" x 18ga	⅜"

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:

1" x 18, 20, 22ga – ON ¼" BOLT
1" X 16ga – TWO ¼" Dia.
1" X 16ga – TWO ⅜" Dia.

PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.

SINGLE HANGER MAXIMUM ALLOWABLE LOAD

STRAP	ROD (Dia.)
1" x 22ga – 260Lbs.	¼" – 270Lbs.
1" x 20ga – 32Lbs.	⅜" – 680Lbs.
1" x 18ga – 420Lbs.	½" – 1250Lbs.
1" x 16ga – 700Lbs.	⅝" – 2000Lbs.
1½" x 16ga – 1100Lbs.	¾" – 3000Lbs.

NOTES:
1. DIMENSIONS OTHER THAN GAUGE ARE IN INCHES.
2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SF. INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
3. STRAPS ARE GALVANIZED STEEL.
4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM, EXCEPT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.

HEATING AND COOLING MINIMUM PIPE INSULATION COMMERCIAL

(THICKNESS IN INCHES)

FLUID	NOMINAL PIPE DIAMETER			
	< 1-1/2"	1-1/2" < 4.0"	4.0" to 8.0"	≤ 8.0"
REFRIGERANT	1.0	1.0	1.0	1.0
CONDENSATE	1.0	1.0	1.0	1.0
GLYCOL WATER	1.5	1.5	1.5	1.5
STEAM	2.5	2.5	3.0	3.0
STEAM CONDENSATE	2.5	2.5	3.0	3.0

NOTES:
1. PIPE COVERING SHALL BE FIBERGLASS PREFORMED PIPE AND PREMOLDED FITTING INSULATION WITH: FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K–FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50.
2. ALL INTERIOR AND EXTERIOR PIPING, FITTINGS, AND VALVES SHALL BE INSTALLED WITH 20 MIL THICK, WHITE PVC JACKETING. PVC JACKETING SHALL BE HIGH IMPACT RESISTANT, UV RESISTANT COMPLYING WITH ASTM D 1784, CLASS 16354–C. PROVIDE FACTORY FABRICATED FITTING AND VALVE COVERS WHERE AVAILABLE.
3. REFRIGERANT AND CONDENSATE PIPE INSULATION SHALL BE FLEXIBLE ELASTOMERIC FOAM SIMILAR TO ARMAFLEX. EXTERIOR INSULATIONS TO BE COATED WITH ARMAFLEX WB OR BE INSTALLED WITH PVC JACKETING.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
CD / CFM ← DESIGNATION ← AIRFLOW		CEILING DIFFUSER
RR / CFM ← DESIGNATION ← AIRFLOW		RETURN/EXHAUST REGISTER
—	AC	AIR CONDITIONING UNIT
—	BHP	BRAKE HORSE POWER
—	CFM	CUBIC FEET PER MINUTE
—	DB	DRY BULB TEMPERATURE
—	dBA	DECIBELS AMBIENT
ø	DIA	DIAMETER OR PHASE
—	EAT	ENTERING AIR TEMPERATURE
—	EER	ENERGY EFFICIENT RATING
—	HVAC	HEATING VENTILATING AND AIR CONDITIONING UNIT
—	ESP	EXTERNAL STATIC PRESSURE
—	°F	FAHRENHEIT
—	FLA	FULL LOAD AMPS
—	FPM	FEET PER MINUTE
—	HP	HORSE POWER
—	Hz	HERTZ
—	IEER	INTEGRATED ENERGY EFFICIENT RATIO
—	LAT	LEAVING AIR TEMPERATURE
—	TSP	TOTAL STATIC PRESSURE
—	RPM	REVOLUTIONS PER MINUTE
—	ACCU	AIR COOLED CONDENSING/ HEAT PUMP UNIT
—	MAX.	MAXIMUM
—	BTUH	BRITISH THERMAL UNITS
—	GS&R	GLYCOL WATER SUPPLY & RETURN

SYMBOL	ABBREVIATION	DESCRIPTION
—	MBH	1000 BRITISH THERMAL UNITS PER HOUR
—	MCA	MINIMUM CIRCUIT AMPACITY
—	MOCP	MAXIMUM OVERCURRENT PROTECTION
—	NC	NOISE CRITERIA
—	MIN.	MINIMUM
—	WB	WET BULB TEMPERATURE
—	V	VOLT
—	AHU	AIR HANDLING UNIT
RR/ER	RR/ER	RETURN/EXHAUST REGISTER
CD	CD	CEILING DIFFUSER
	–	SUPPLY/OUTSIDE AIR INTAKE DUCT UP
	–	SUPPLY/OUTSIDE AIR INTAKE DUCT DOWN
	–	RETURN/EXHAUST AIR DUCT UP
	–	RETURN/EXHAUST AIR DUCT DOWN
6 x 8	–	DUCT SIZE
	–	ACOUSTIC LINING
VD	VD	VOLUME DAMPER
T	–	THERMOSTAT/TEMPERATURE SENSOR
	–	SQUARE VANED ELBOW
FD	FD	FIRE DAMPER WITH ACCESS DOOR
	NEW	NEW WORK
	–	DUCT TRANSITION FROM RECTANGLE TO ROUND
	–	FLEXIBLE DUCTWORK
—	SEER	SEASONAL ENERGY EFFICIENT RATING
—	A	AMPS
—	DX	DIRECT EXPANSION
—	LPS	LOW PRESSURE STEAM

MECHANICAL PIPING MATERIAL SCHEDULE

SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
CONDENSATE DRAIN	ALL	PVC	SCHEDULE 40 DWV	ASTM D 2665
REFRIGERANT	ALL	COPPER	HARD OR ANNEALED TYPE ACR	ASTM B 280
STEAM	ALL	BLACK STEEL	SCHEDULE 40	ASTM A 53
STEAM CONDENSATE & STEAM VENT	ALL	BLACK STEEL	SCHEDULE 80	ASTM A 53
GLYCOL WATER	4" AND UP	BLACK STEEL	SCHED 40	ASTM A 53
GLYCOL WATER	3" & DOWN	COPPER	HARD DRAWN TYPE L TUBING	ASTM B 88

MECHANICAL PIPING FITTING SCHEDULE

SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
CONDENSATE DRAIN	ALL	PVC	SCHEDULE 40 DWV SOLVENT CEMENT	ASTM D 3034 ASTM D 2855
REFRIGERANT	ALL	COPPER	SILVER SOLDER 300 PSI	ANSI B 16.22
STEAM	ALL	CARBON STEEL	STANDARD WEIGHT WELDING TYPE	ASME B 16.9
STEAM CONDENSATE & STEAM VENT	ALL	CAST IRON	EXTRA HEAVY WEIGHT SCREWED ENDS	ASME B 16.4
GLYCOL WATER	4" & UP	CARBON STEEL	BUTT WELDED OR FLANGED	ASME B 16.9 / ASME 234
GLYCOL WATER	3" & DOWN	WROUGHT COPPER	SOLDER	ASME B 16.22

SINGLE DUCT VAV BOX SCHEDULE

TAG	AREA SERVED	MODEL	SIZE		DESIGN CFM		CFM RANGE		ELECTRIC HEATING COIL					
			UNIT	INLET	MAX.	MIN.	MIN.	MAX.	KW	EAT/LAT	MAX. COIL AIR PD.	VOLTS	PHASE	NUMBER OF STEPS
VAV-1	CONFERENCE ROOM 115	DESV	16	16	2400	1600	300	3000	N/A	N/A	N/A	N/A	N/A	N/A
VAV-2	REFER TO PLANS	DESV	08	08	675	350	90	900	N/A	N/A	N/A	N/A	N/A	N/A
VAV-3	REFER TO PLANS	DESV	08	08	600	300	90	900	N/A	N/A	N/A	N/A	N/A	N/A
VAV-4	REFER TO PLANS	DESV	06	06	300	150	45	500	N/A	N/A	N/A	N/A	N/A	N/A
VAV-5	TAPROOM 103	DESV	14	14	1700	1700	300	3000	N/A	N/A	N/A	N/A	N/A	N/A
VAV-6	TAPROOM 103	DESV	12	12	1100	1100	190	2000	N/A	N/A	N/A	N/A	N/A	N/A
VAV-7	LOBBY 102	DESV	14	14	1450	950	300	3000	13	55/98	0.38"	480	3	2
VAV-8	TAPROOM 103	DESV	14	14	1800	150	300	3000	N/A	N/A	N/A	N/A	N/A	N/A
VAV-9	MEN 127 & WOMEN 130	DESV	06	06	350	150	45	500	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:
1. VAV BOXES BASED ON TITUS.
2. ALL VAV BOXES SHALL BE COMPLETE WITH FACTORY MOUNTED SHEET–METAL CONTROL ENCLOSURE, 24 VOLT CONTROL TRANSFORMER, DISCONNECT SWITCH, HANGER BRACKETS, AND FIBER–FREE CLOSED–CELL POLYMER FOAM INSULATION.
3. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS WITHIN FACTORY CONTROL ENCLOSURE.
4. CONTRACTOR SHALL VERIFY LEFT OR RIGHT HAND CONTROL ENCLOSURE MOUNTING AND PIPING CONNECTIONS PRIOR TO ORDERING.
5. MAXIMUM ALLOWANCE STATIC PRESSURE DROP FOR BOX SHALL BE 0.5".
6. MAXIMUM DISCHARGE NC<28 AND MAXIMUM RATED NC<30.
7. VAV BOXES WITH ELECTRIC REHEAT COILS SHALL BE COMPLETE WITH: INTEGRAL CONTROL PANEL HOUSED IN NEMA 1 ENCLOSURE, PRIMARY AUTOMATIC RESET THERMAL CUT–OUT, SECONDARY MANUAL RESET THERMAL CUT–OUT, DIFFERENTIAL PRESSURE AIRFLOW SWITCH, LINE TERMINAL BLOCK, INTEGRAL DOOR INTERLOCK DISCONNECT SWITCH, AND MERCURY CONTACTORS.

Date	10/15/21
Checked	SZ
Drawn	BH/DC/KC

SCOTT P. ZIEGLER
Title LICENSED PROFESSIONAL ENGINEER New York License No. 091035

Revisions:
1 PERMIT SET 10/15/21

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MECHANICAL:
EQUIPMENT SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 M701

M7.01

MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
CD-A	KRUEGER	1400	STEEL HIGH PERFORMANCE CEILING DIFFUSER. MAXIMUM CORE VELOCITY: 550 FPM. MAXIMUM NOISE CRITERIA: 30 NC. SURFACE MOUNTED WITH FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT. 4–WAY DEFLECTION UNLESS OTHERWISE NOTED ON PLANS. 24" x 24" MODULE SIZE. ALL DIFFUSERS SHALL BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPER. CFM RANGE: → NECK SIZE: 0–100 → 6"ø 101–200 → 8"ø 201–300 → 10"ø 301–450 → 12"ø 451–650 → 14"ø 651–825 → 15"ø
RR-A **ER-A** **ER-B** **RG-A**	KRUEGER	S80H/S580	STEEL RETURN/EXHAUST REGISTER WITH ¾" FIXED BLADE SPACING. MAXIMUM CORE VELOCITY: 500 FPM. MAXIMUM NOISE CRITERIA: 25 NC. SURFACE MOUNTED 35° FIXED DEFLECTION BLADES. BLADES PARALLEL TO LONG DIMENSION UNLESS OTHERWISE NOTED. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT. REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE. REGISTERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS. UNLESS OTHERWISE NOTED ON PLANS REGISTERS AND GRILLES SHALL BE SIZED PER SCHEDULE. ER–B ONLY, SHALL BE S580 (ALUMINUM CONSTRUCTION). CFM RANGE: → NECK SIZE: 0–150 → 8"x8" 151–250 → 10"x10" 251–350 → 12"x12" 351–725 → 18"x18" 726–1125 → 24"x24"
RG-B	KRUEGER	EGC5	EGGCRATE RETURN GRILLE WITH ALUMINUM BORDER AND CORE. 24" x 24" MODULE SIZE. EXTRUDED ALUMINUM 1¼" WIDE BORDER WITH ½"x½"x½" ALUMINUM GRID. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT. MAXIMUM NOISE CRITERIA = 20 NC. MAXIMUM CORE VELOCITY = 700 FPM. GRILLE SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
FD	RUSKIN	DIBD2	1–1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING UL APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" ESP. 165°F FUSIBLE LINK. ALL FIRE DAMPERS IN DUCTWORK SERVING AUDITORIUM SHALL HAVE BLADES OUT OF AIRSTREAM.
CD-B	KRUEGER	RM1	STEEL, ROUND CEILING DIFFUSER WITH (3) CONES AND 360° DISCHARGE PATTERN. DIFFUSERS SHALL HAVE ROUND NECK INLETS AND (2) HORIZONTAL DISCHARGE SETTINGS. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT. MAXIMUM NECK VELOCITY: 600 FPM. MAXIMUM NOISE CRITERIA: 25 NC. PROVIDE NECK MOUNTED OPPOSED BLADE VOLUME DAMPER. CFM RANGE: → NECK SIZE: 0–100 → 6"ø 101–250 → 8"ø 251–350 → 10"ø 351–450 → 12"ø 451–650 → 14"ø
DL-A **DL-B** **DL-C**	KRUEGER	DMD	ALUMINUM DIRECT SPIRAL DUCT MOUNTED ADJUSTABLE DOUBLE DEFLECTION DRUM LOUVER WITH ROTATING DRUM. MAXIMUM CORE VELOCITY: 550 MAXIMUM NOISE CRITERIA: 30 NC. SURFACE MOUNTED WITH FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE. COLOR SELECTED BY ARCHITECT. PROVIDE WITH FLOW EXTRACTOR. DL–A SHALL HAVE NOMINAL 24"X6" DUCT SIZE, DL–B SHALL HAVE 48"x6" DUCT SIZE AND DL–C SHALL HAVE 12"x6" NOMINAL DUCT SIZE.
VFD	ABB	–	UNLESS PROVIDED AS PART OF EQUIPMENT BY MANUFACTURER, VARIABLE FREQUENCY DRIVES SHALL BE BASED ON ABB WITH BACNET IP–MS/TP COMMUNICATION FACTORY INSTALLED. THE VFD SHALL BE IN A NEMA 1 TYPE ENCLOSURE WITH A CIRCUIT BREAKER DISCONNNECT SWITCH, INDUSTRIAL RATED OPERATOR CONTROLS, USER TERMINAL STRIP CONNECTIONS AND BYPASS CONTROLS. POWER CIRCUIT CONFIGURATION SHALL BE "POWER Y CIRCUIT". VFD SHALL BE COMPLETE WITH: HAND–OFF–AUTO SWITCH AND MANUAL SPEED POTENTIOMETER, IEC–RATED ISOLATION AND BYPASS CONTACTORS WITH MECHANICAL AND ELECTRICAL INTERLOCKING AND A CLASS 20 OVERLOAD RELAY, 120 V FUSED CONTROL TRANSFORMER AND CIRCUIT BREAKER WITH LOCKOUT/TAG CAPABILITY, AFC–OFF–BYPASS SWITCH, TEST–NORMAL SWITCH, PILOT LIGHT CLUSTER "B08" (POWER ON, AFC RUN, BYPASS RUN AND AFC FAULT), LINE ISOLATION CONTACTOR AND "H09" ANALOG OUTPUT. PROVIDE AUXILIARY CONTACTS FOR "STATUS/RUN", "FAULT", AND ANALOG OUTPUT FOR "SPEED".
M	RUSKIN	CD40	UNLESS PROVIDED WITH A SPECIFIC PIECE OF EQUIPMENT MOTORIZED DAMPERS SHALL BE CONSTRUCTED OF 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER BLADES. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. PROPORTIONAL DAMPER ACTUATORS SHALL BE 24VAC/60Hz., MAXIMUM 6 WATTS RUNNING AND 2 WATTS HOLDING POWER CONSUMPTION, COMPLETE WITH DISCONNECT SWITCH AND END SWITCH KITS, SIMILAR TO BELIMO NF24–SR. PROVIDE 120V TO 24V TRANSFORMER. MOTORIZED DAMPER FOR L–1 SHALL BE TIED TO OWNER PROVIDED BOILER TO ONLY ALLOW BOILER TO OPERATE ONCE DAMPER HAS BEEN PROVEN OPEN.
EQUIPMENT SUPPORT RAILS	THYBAR	TEMS–3	24" HIGH EQUIPMENT SUPPORT RAIL CONSTRUCTED OF WELDED 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE AND COUNTER FLASHING WITH FACTORY INSTALLED 2"x4" WOOD NAILERS AND INTERNAL BULKHEAD REINFORCEMENT. RAIL LENGTH TO EXTEND 6" ON BOTH ENDS OF EQUIPMENT. EQUIPMENT SUPPORT RAILS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
TIME CLOCK	TORK	7100	24 HOUR, SKIP–A–DAY, ELECTROMECHANICAL TIME CLOCK WITH MANUAL OVERRIDE. 120 VOLT, 40 AMP, SPST GENERAL PURPOSE CONTACTS. METAL, INDOOR, NEMA 1 ENCLOSURE. 3 WATTS POWER CONSUMPTION.
EH-1	QMARK	MSPH154324L	PLENUM HEATER. CAPACITY: 5,000 WATTS, 17,060 BTUH, 1000 CFM. ELECTRICAL: 480V/3ø, 6.51 AMPS. HEATER SHALL HAVE: DIRECT DRIVE MOTOR, ACOUSTICALLY INSULATED WITH FIBERGLASS, ACCESS PANELS ON FRONT OF UNIT, DISCONNECT SWITCH, FILTER RACK ON INLET, INLET AND OUTLET SCREENS, THERMAL SAFETY CUTOUTS, FAN DELAY CONTROL AND CONCEALED TAMPER–PROOF SINGLE STAGE THERMOSTAT. HEATER SHALL HAVE ZERO CLEARANCE TO COMBUSTIBLE MATERIALS. PROVIDE PERMANENT WASHABLE FILTER.
EH-2	BROMIC HEATING	BH0420035	TUNGSTEN SMART HEAT, CEILING HUNG ELECTRIC INFRARED HEATER. CAPACITY: 6,000 WATTS, 20,470 BTUH. ELECTRICAL: 277V/1ø, 21.7 AMPS. HEATER SHALL HAVE: DOUBLE HEATING ELEMENTS, STAINLESS STEEL CONSTRUCTION, SPECTRAL REFLECTOR, 36" LONG TUBE SUSPENSION KIT, WIRELESS ON/OFF CONTROLLER WITH BUILT–IN TIMER AND REMOTE. REMOTE SHALL BE PAIRED TO CONTROL (3) HEATERS FROM EACH REMOTE AND CREATE (4) ZONES OF HEATING. CONTRACTOR SHALL CONTACT BROMIC HEATING TECHNICAL SUPPORT TO COORDINATE THE SET–UP OF THE TIMER FUNCTION OF THE CONTROLLER. EACH ZONE OF HEATERS SHALL OPERATE FOR A SET AMOUNT OF TIME. CONTRACTOR SHALL COORDINATE DESIRED TIME WITH OWNER. REMOTES SHALL BE INSTALLED TO WALL WITH LOCKDOWN BRACKET. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
EH-3	BERNER	ARD12–4144E	CEILING MOUNTED, ELECTRIC HEATED AIR CURTAIN. CURTAIN SHALL HAVE (4) 1/2 HP DIRECT–DRIVE, CONTINUOUS–DUTY, TEN SPEED MOTORS, ADJUSTABLE AIR DIRECTIONAL VANES, CUSTOM COLOR POWDER COATING FINISH AND BE 149" IN LENGTH. HEATER CAPACITY: 56,000 WATTS, 28° TEMPERATURE RISE AND 6,348 CFM. ELECTRICAL: DUAL CIRCUIT 480V/3ø, 44.2/33.7 AMPS. FINISH SHALL BE SELECTED BY OWNER. HEATER SHALL HAVE: INTELLISWITCH DIGITAL CONTROLLER, THERMAL CUT–OUT, POWER ON/OFF SWITCH, TEMPERATURE PROBE, HANDHELD REMOTE CONTROLLER WITH LOCKDOWN BRAKCET, DISCONNECT SWITCHES, AND (4) MAGNETIC REED DOOR SWITCHES.
EH-4	BERKO	HUHAA324	HORIZONTAL/VERTICAL UNIT HEATER. CAPACITY: 3,000 WATTS, 10,230 BTUH, 350 CFM. ELECTRICAL: 240V/1ø, 12.5 AMPS. HEATER SHALL HAVE: CONCEALED TAMPER–PROOF THERMOSTAT, MANUAL RESET, TWO–STAGE ELEMENT CONTROL, BIRD SCREEN, INDIVIDUAL ADJUSTABLE LOUVERS WITH 30° DOWNWARD STOPS, 18 GAUGE CABINET, WALL SWIVEL MOUNTING BRACKETS, AND DISCONNECT SWITCH.
EH-5	BERKO	FRC4027FNW	ARCHITECTURAL, HEAVY–DUTY, FAN FORCED WALL HEATER. CAPACITY: 1500 WATTS, 5120 BTUH, 100 CFM. ELECTRICAL: 277V/1ø, 6.3 AMPS. FINISH SHALL BE NORTHERN WHITE. HEATER SHALL HAVE: CONCEALED TAMPER–PROOF THERMOSTAT, MANUAL RESET THERMAL CUT–OUT, CONCEALED POWER ON/OFF SWITCH, BACK BOX, SURFACE MOUNTING FRAME, DISCONNECT SWITCH, AND 14 GAUGE SECURITY FRONT COVER.
MUA-1	CAPTIVE AIRE	A3–D.500–24D	DIRECT GAS FIRED MAKE–UP AIR UNIT WITH 24" DIRECT DRIVE FAN. MOTOR CHARACTERISTICS: 7.5HP, 460V/3ϕ/60Hz, 9.6 FLA, PREMIUM EFFICIENCY. SUPPLY PERFORMANCE: MAXIMUM CFM 5250, MINIMUM CFM 3500, 1426 RPM, 1.2" ESP, 5.3 BHP, 9°F EAT, 66°F TEMPERATURE RISE, GAS INPUT 387.9 MBH, AND GAS OUTPUT 356.9 MBH. UNIT SHALL BE COMPLETE WITH: 0°–150°F DISCHARGE TEMPERATURE CONTROL, SLOPED FILTERED INTAKE WITH METAL MESH FILTERS, 24" HIGH INSULATED ROOF CURB, MOTORIZED BACKDRAFT DAMPER, LOW FIRE START, INLET AND MANIFOLD GAS PRESSURE GAUGES, AND SEPARATE 120V WIRING PACKAGE.
HVAC-1	DAIKIN	FTQ24TAVJDU	HEAT PUMP AIR HANDLER UNIT. NOMINAL COOLING 2 TON (24,000 BTUH), HEATING 27,000 BTUH @ 5° OAT, HIGH EFFICIENT MULTI–SPEED BLOWER MOTOR, DISCONNECT SWITCH, DRAIN PAN LEVEL SENSOR, AND FILTER. 800 CFM @ .9" W.C. (10.3 EER). REFRIGERANT R–410A – 208V/1, 4.9 MCA, AND 15 MOCP.
HP-1	DAIKIN	RZQ24TAVJUA	COMPRESSOR/CONDENSER HEAT PUMP UNIT WITH INVERTER COMPRESSOR. NOMINAL COOLING 2 TON, HEATING 27,000 BTUH @ 5° OAT. PROVIDE WITH NEMA 3–R DISCONNECT SWITCH AND EEV VALVE. (15.2 SEER)/(10.7 HSPF). REFRIGERANT R–410A – 208V/1, 16.5 MCA AND 20 MOCP.
L-1	RUSKIN	ELF6375DX	EXTRUDED ALUMINUM, DRAINABLE STATIONARY LOUVER. FRAME: 6" DEEP, EXTRUDED ALUMINUM WITH 0.081" NOMINAL WALL THICKNESS. BLADES: EXTRUDED ALUMINUM, DRAINABLE, 0.081" NOMINAL WALL THICKNESS, AND 37.5° BLADE ANGLE. LOUVER SHALL HAVE 54% FREE AREA. LOUVER SHALL HAVE MILL FINISH, BIRD SCREEN, EXTENDED SILL AND INSTALLATION ANGLE. LOUVER SIZE: 36"x30" WITH 3.97 FT^2 FREE AREA. LOUVER SHALL BEAR THE AMCA SEAL.
AC-1	DAIKIN	FCQ24TAVJU	CEILING CASSETTE, 4–WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT–IN CONDENSATE PUMP. UNIT SHALL BE COMPLETE WITH DISCONNECT SWITCH, AND BRC1E73 REMOTE CONTROLLER. PERFORMANCE: 777 CFM, 24,000 BTUH COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT, 27,000 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 47° AMBIENT. ELECTRICAL: 208V/1ϕ/60Hz.
CP-1	BELL & GOSSETT	WC6–20B	SIMPLEX CONDENSATE PUMP SET. CAPACITY 6,000 EDR, PUMPING 9 GPM AT 22 PSI DISCHARGE PRESSURE. CAST IRON RECEIVER WITH 6 GALLON CAPACITY. MOTORS SHALL BE ⅓ HP, 3500 RPM, 120V/1ø/60Hz. SYSTEM SHALL BE COMPLETE WITH: BASKET INLET STRAINER, CLOSE COUPLED BRONZE FITTED PUMP, RENEWABLE BRONZE WEAR RING, STAINLESS STEEL MOTOR SHAFT, CARBON SEAL FACES, DOUBLE POLE FLOAT SWITCH, AND NEMA–3R DISCONNECT SWITCH.

FAN SCHEDULE

DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	KITCHEN EXHAUST HOOD	DISHWASHER EXHAUST HOOD	REFER TO PLANS	REFER TO PLANS	KITCHEN 117	LAB 105FOOM	ELEC. 116	IT ROOM
MODEL	DU240HFA	DU50HFA	G–100–VG	G–120–VG	G–100–VG	G–09–VG	G–095–VG	G–080–VG
CFM (MAX./MIN.)	6,000/–	1,000/–	500/–	1,350/–	850/–	150/–	250/–	150/–
BHP	2.85	.13	0.15	0.37	0.23	0.05	0.1	0.03
HP	5	1/2	1/4	1/2	1/4	1/4	1/6	1/10
RPM (MAX./MIN.)	994/–	1081–	1535/–	1595/–	1574/–	1404/–	1671/–	1319/–
ESP (IN H_2O)	1.3"	.5"	0.88"	1.0"	0.91"	0.56"	0.78"	0.39
VOLTS/Ø	460/3	115/1	115/1	115/1	115/1	115/1	115/1	115/1
STARTER TYPE	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH	NEMA 3R DISCONNECT SWITCH
SOUND DATA (dBA/SONES)	–/21	–/8.6	52/6.4	65/13.2	57/8.4	52/6.1	60/11.1	51/6.1

NOTES:

1. FANS EXCEPT EF–1 AND EF–2 BASED ON GREENHECK. EXHAUST FANS EF–1 AND EF–2 BASED ON CAPTIVE AIRE.
2. ALL MOTORS 1 HP AND LARGER SHALL BE PREMIUM EFFICIENCY. FANS PROVIDED WITH VARIABLE FREQUENCY DRIVES WITH DISCONNECT SWITCHES, SHALL HAVE INVERTER RATED PREMIUM EFFICIENCY MOTORS SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS. VARIABLE FREQUENCY DRIVES SHALL BE CAPABLE OF BY–PASS OPERATION. TURN DOWN RATIO OF 10:1. VFD TO BE PURCHASED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. ALL MOTORS TO INCLUDE THERMAL OVERLOAD.
4. PROVIDE ONE EXTRA SET OF BELTS FOR EACH BELT DRIVEN FAN. ALL BELT DRIVEN FANS SHALL HAVE VARIABLE PITCH PULLEYS.
5. ALL FANS SHALL BE PROVIDED WITH MOTORIZED BACKDRAFT DAMPERS CONSTRUCTED OF A GALVANIZED STEEL FRAME AND ALUMINUM BLADES WITH SEALS. MOTORIZED DAMPER VOLTAGE SHALL BE 120 VOLTS. NOT REQUIRED FOR EF–1.
6. EXHAUST FANS 3,4,5,6,7 AND 8 SHALL BE PROVIDED WITH THE FOLLOWING: VARI–GREEN EC MOTOR WITH MOUNTED POTENTIOMETER DIAL, BIRDSCREEN, CURB SEAL AND 24" HIGH ROOF CURB WITH DAMPER TRAY.
7. EXHAUST FAN EF–1 SHALL BE PROVIDED WITH THE FOLLOWING: GREASE CLASSIFICATION TESTING, UL 705 AND UL 762. 24" HIGH VENTED AND HINGED ROOF CURB, AND GREASE CUP.
8. EXHAUST FAN EF–2 SHALL BE PROVIDED WITH THE FOLLOWING: BIRDSCREEN, 24" HIGH VENTED AND HINGED ROOF CURB WITH DAMPER TRAY, AND ECM EXHAUST WIRING PACKAGE.
9. PROVIDE MANUAL ON/OFF LOCAL SWITCH FOR EF–6 CONTROL.
10. ALL FANS SHALL BE PROVIDED WITH DISCONNECT SWITCH AT UNIT FOR SERVICE. OUTDOOR DISCONNECT SWITCHES SHALL BE NEMA 3R.
11. EF–7 AND EF–8 SHALL BE CONTROLLED BY ROOM MOUNTED LINE VOLTAGE THERMOSTAT.
12. ROOF CURBS AND EQUIPMENT SUPPORT RAILS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.

MINIMUM DUCT INSULATION

COMMERCIAL

ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R–6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R–12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R–12 INSULATION.

EXCEPTIONS:

1. WHEN LOCATED WITHIN EQUIPMENT.
2. WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F (8°C).

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC–PLUS– EMBEDDED FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

NOTE:

DUCT INSULATION, COVERINGS AND LINING MATERIALS AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50, IN ACCORDANCE WITH 2020 MECHANICAL CODE OF NEW YORK STATE SECTION 604.3.

NOTE:

1. ARCHITECT SHALL SELECT FINISH COLORS FOR ALL MECHANICAL EQUIPMENT VISIBLE WITHIN FINISHED SPACES OR ON EXTERIOR OF BUILDING. COLOR CHOICES FOR SELECTION SHALL BE MANUFACTURER'S FULL RANGE OF BOTH STANDARD AND CUSTOM COLOR/FINISHES UNLESS OTHERWISE NOTES.

PACKAGED ROOFTOP UNIT SCHEDULE

DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6
AREA SERVED	REFER TO PLANS	REFER TO PLANS	REFER TO PLANS	REFER TO PLANS	REFER TO PLANS	REFER TO PLANS
MODEL NUMBER	DPS020A	DPS015A	DPS016A	DPS015A	DPS012A	DPS020A
NOMINAL CAPACITY (TONS)	20	15	16	15	12	20
WEIGHT OF UNIT (POUNDS)	4441	2951	4441	2711	2788	4524
EER/IEER	11.0/19.6	10.8/17.5	11.9/20.1	10.8/17.5	11.2/17.6	11.0/19.6
DESIGN DATA:						
SUPPLY AIR (CFM)	6,400	4,350	6,400	4,800	4,000	8,000
OUTDOOR AIR (CFM)	3,510	2,400	3,040	1,800	2,400	3,000
CONDENSER DATA:						
COMPRESSOR No./TYPE	1/SCROLL	2/SCROLL	1/SCROLL	2/SCROLL	2/SCROLL	1/SCROLL
CAPACITY CONTROL	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING
REFRIGERANT TYPE	R–410A	R–410A	R–410A	R–410A	R–410A	R–410A
COMPRESSOR (AMPS) EACH	30.1	7.9/12.8	22.9	7.9/12.8	6.8/7.9	30.1
No. OF FANS/No. OF MOTORS	1/1	2/2	1/1	2/2	2/2	1/1
FAN FLA (AMPS) EACH	3.5	1.8	3.5	1.8	1.8	3.5
No. OF ROWS/FPI	1/23	1/21	1/23	1/21	1/23	1/23
AMBIENT TEMPERATURE (°F)	95	95	95	95	95	95
FILTER DATA:						
TYPE	2" MERV 8 & 4" MERV 14	2" MERV 8 & 4" MERV 14	2" MERV 8 & 4" MERV 14	2" MERV 8 & 4" MERV 14	2" MERV 8 & 4" MERV 14	2" MERV 8 & 4" MERV 14
FACE AREA (SQ.FT.)	27.0	18.0	27.0	18.0	18.0	27.0
QUANTITY/SIZE (In.)	9/18x24x2 9/18x24x4	6/18x24x2 6/18x24x4	9/18x24x2 9/18x24x4	6/18x24x2 6/18x24x4	6/18x24x2 6/18x24x4	9/18x24x2 9/18x24x4
EVAPORATOR COIL DATA:						
FACE AREA (SQ. FT.)	21.4	15.4	18.9	15.4	15.4	21.4
No. OF ROWS/FPI	4/15	6/15	4/15	6/15	4/15	4/15
EAT (°F) DB/WB	79.0/66.2	79.8/66.4	77.4/64.6	81.4/67.1	79.8/66.6	77.4/64.8
LAT (°F) DB/WB	53.1/53.1	53.4/53.4	55.0/54.9	55.2/55.2	54.5/54.5	54.4/54.2
FACE VELOCITY (FPM)	299.1	281.9	338.6	311.1	259.2	373.8
TOTAL/SENSIBLE CAP. (MBH)	252.1/180.5	172.4/125.6	185.9/156.4	176.9/137.2	148.7/110.7	255.3/202.0
GAS HEATING DATA:						
INPUT (MBH)	600	400	600	300	400	600
CAPACITY (MBH)	480	320	480	240	320	480
EAT/LAT (°F) DB	29.4/98.5	29.1/96.9	33.8/102.9	40.6/86.7	26.0/99.7	40.6/95.9
CAPACITY CONTROL	MODULATING 12:1	MODULATING 10:1	MODULATING 12:1	MODULATING 10:1	MODULATING 10:1	MODULATING 12:1
EFFICIENCY	80%	80%	80%	80%	80%	80%
HOT GAS REHEAT COIL DATA:						
FACE AREA (SQ. FT.)	21.6	14.6	21.6	14.6	14.6	21.6
TOTAL CAPACITY (MBH)	116.8	78.3	103.8	76.8	67.1	135.8
LAT (°F) DB/WB	70.0/59.5	70.0/59.6	70.0/60.4	70.0/60.6	70.0/60.2	70.0/60.1
ENERGY RECOVERY WHEEL DATA:						
EXHAUST AIR (CFM)	3,510	1,575	1,520	–	1.750	3,100
OUTDOOR AIR (CFM)	3,510	2,400	3,040	–	2,400	3,000
PRESSURE DROP (IN H_2O)	0.67	0.57	0.58	–	0.57	0.57
MOTOR HP	0.17	0.17	0.17	–	0.17	0.17
MOTOR FLA (AMPS)	0.4	0.4	0.4	–	0.4	0.4
ENERGY RECOVERY WHEEL FILTER DATA:						
TYPE	2" MERV 8	2" MERV 8	2" MERV 8	–	2" MERV 8	2" MERV 8
FACE AREA (SQ.FT.)	6.0	6.0	6.0	–	6.0	6.0
QUANTITY/SIZE (In.)	2/18x24x2	2/18x24x2	2/18x24x2	–	2/18x24x2	2/18x24x2
ENERGY RECOVERY WHEEL SUMMER DATA:						
OUTDOOR AIR EAT (°F) DB/WB	92.0/74.0	92.0/74.0	92.0/74.0	–	92.0/74.0	92.0/74.0
RETURN AIR EAT (°F) DB/WB	75.0/62.5	75.0/62.5	75.0/62.5	–	75.0/62.5	75.0/62.5
WHEEL LEAVING T (°F) DB/WB	82.3/69.0	83.7/69.4	85.1/70.0	–	83.1/69.1	81.5/68.5
MIXED AIR T (°F) DB/WB	79.0/66.2	79.8/66.4	79.8/66.2	–	79.8/66.6	77.4/64.8
CAPACITY RECOVERED (MBH)	68.7	43.3	47.7	–	45.7	63.6
EFFECTIVENESS (TOTAL/SENS.)	0.47/0.57	0.67/0.74	0.78/0.81	–	0.64/0.72	0.51/0.62
ENERGY RECOVERY WHEEL WINTER DATA:						
OUTDOOR AIR EAT (°F) DB/WB	0.0/0.0	0.0/0.0	0.0/0.0	–	0.0/0.0	0.0/0.0
RETURN AIR EAT (°F) DB/WB	70.0/52.5	70.0/52.5	70.0/52.5	–	70.0/52.5	70.0/52.5
WHEEL LEAVING T (°F) DB/WB	43.3/36.1	35.1/30.8	28.9/26.4	–	38.0/32.7	45.9/37.8
MIXED AIR T (°F) DB/WB	55.4/44.1	50.8/41.5	50.5/41.4	–	50.8/41.4	61.0/47.4
CAPACITY RECOVERED (MBH)	199.4	112.7	119.2	–	121.3	180.5
EFFECTIVENESS (TOTAL/SENS.)	0.59/0.62	0.76/0.76	0.84/0.83	–	0.73/0.74	0.63/0.66
SUPPLY FAN DATA:						
SUPPLY AIRFLOW (CFM)	6,400	4,350	6,400	4,800	4,000	8,000
ESP/TSP (IN H_2O)	1.7/4.0	1.75/3.8	2.5/4.8	2.1/3.2	2.4/4.3	2.1/4.6
BHP/HP	6.4/10.0	4.2/8.0	7.75/10.0	3.9/8.0	4.5/8.0	8.9/15
RPM	1527	1599	1646	1539	1660	1699
FLA (AMPS)	12.5	6.1	12.5	6.1	6.1	17.7
SINGLE POINT POWER CONNECTION ELECTRICAL DATA:						
VOLTS/ø/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
MCA/MOCP (AMPS)	52.2/80.0	32.6/45.0	42.9/70.0	32.6/45.0	26.6/35.0	59.3/90.0

NOTES:

1. UNITS BASED ON DAIKIN.
2. PROVIDE (1) COMPLETE EXTRA SET OF FILTERS FOR EACH UNIT.
3. UNITS SHALL BE COMPLETE WITH:
   - STAINLESS STEEL HEAT EXCHANGER
   - NON–FUSED DISCONNECT SWITCH
   - FIELD POWERED 115 VOLT GFI OUTLET
   - INVERTER RATED PREMIUM EFFICIENCY MOTORS SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
   - COMPARATIVE ENTHALPY ECONOMIZER.
   - STAINLESS STEEL DRAIN PANS.
   - 5 YEAR COMPRESSOR PARTS WARRANTY.
   - 10 YEAR GAS HEAT EXCHANGER PARTS WARRANTY.
   - LOW AMBIENT CONTROL.
   - 24" HIGH ROOF CURB.
   - COMBO DIGITAL TEMP AND HUMIDITY SENSOR W/ADJ SETPOINT AND TENENT OVERRIDE
   - INTELLIGENT EQUIPMENT MODULE FOR REMOTE WEB ACCESS.
4. ROOF CURBS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
5. ALL UNITS SHALL BE PROVIDED WITH VARIABLE FREQUENCY DRIVES AND POWERED, MODULATING EXHAUST FANS.
6. RTU–1, RTU–2, RTU–3, RTU–5 AND RTU–6 SHALL BE PROVIDED WITH BY–PASS DAMPER FOR ENERGY RECOVERY WHEEL.
7. RTU–3 AND RTU–5 SHALL BE SUPPLIED WITH OUTDOOR AIR MONITORING STATION.

Date	10/15/21
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Revisions:
1 PERMIT SET 10/15/21

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MECHANICAL:
EQUIPMENT SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 M702

M7.02

SEQUENCE OF OPERATIONS:

1. GENERAL:

A. THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED CONTROL ELEMENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING BUT NOT LIMITED TO CONTACTS, RELAYS, WIRING (24V AND 120V), CONDUIT, CONTROL PANELS, TRANSFORMERS, THERMOSTATS, SENSORS, ACTUATORS, DAMPERS, TIME CLOCKS, SPEED CONTROLLERS, AND ETC.

2. DISHWASHER EXHAUST FAN (EF–2):

A. EXHAUST FAN SHALL OPERATE WHEN THE DISHWASHER IS ACTIVATED. LOCAL CONTROLS WITHIN THE DISHWASHER ASSEMBLY SHALL TURN ON/OFF THE EXHAUST FAN. WHEN THE EXHAUST FAN IS CALLED TO RUN, THE ASSOCIATED MOTORIZED BACKDRAFT DAMPER SHALL OPEN AND THEN THE FAN SHALL TURN ON. WHENEVER THE EXHAUST FAN IS SHUT–DOWN THE ASSOCIATED MOTORIZED DAMPER SHALL CLOSE. PROVIDE ALL CONTROLS REQUIRED TO INTERLOCK EXHAUST FAN OPERATION WITH DISHWASHER ASSEMBLY.

3. TOILET AND GENERAL EXHAUST FANS (EF–3, EF–4 AND EF–5):

A. THE EXHAUST FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS AS PROGRAMMED THROUGH A 24–HOUR TIME CLOCK. COORDINATE OCCUPIED HOURS WITH OWNER'S REPRESENTATIVE. WHEN THE EXHAUST FAN IS CALLED TO RUN, THE ASSOCIATED MOTORIZED BACKDRAFT DAMPER SHALL OPEN AND THEN THE FAN SHALL TURN ON. WHENEVER THE EXHAUST FAN IS SHUT–DOWN THE ASSOCIATED MOTORIZED DAMPER SHALL CLOSE.

4. LAB EXHAUST FAN (EF–6):

A. A MANUAL WALL MOUNTED SWITCH, LOCATED IN THE SPACE, SHALL TURN THE FAN ON AND OFF. WHEN THE EXHAUST FAN IS CALLED TO RUN, THE ASSOCIATED MOTORIZED BACKDRAFT DAMPER SHALL OPEN AND THEN THE FAN SHALL TURN ON. WHENEVER THE EXHAUST FAN IS SHUT–DOWN THE ASSOCIATED MOTORIZED DAMPER SHALL CLOSE.

5. EXHAUST FANS (EF–7 AND EF–8):

A. EXHAUST SHALL BE COMMANDED ON/OFF BASED ON SPACE TEMPERATURE. ON A RISE IN SPACE TEMPERATURE ABOVE SET–POINT THE MOTORIZED DAMPER ASSOCIATED WITH THE EXHAUST FAN SHALL OPEN AND THEN THE EXHAUST FAN SHALL TURN ON. THE EXHAUST FAN SHALL CONTINUE TO RUN UNTIL THE SPACE TEMPERATURE DROPS BELOW SET–POINT, AT WHICH POINT THE FAN SHALL STOP AND THE MOTORIZED DAMPER SHALL CLOSE. WHENEVER THE EXHAUST FAN IS SHUT–DOWN THE ASSOCIATED MOTORIZED DAMPER SHALL CLOSE.

6. KITCHEN EXHAUST HOOD EXHAUST FAN AND MAKE–UP AIR UNIT (EF–1 AND MUA–1:

A. THE EXHAUST FAN AND MAKE–UP AIR UNIT OPERATION SHALL BE OPERATED BY A FACTORY CONTROL PANEL MOUNTED WITHIN THE KITCHEN EXHAUST HOOD ASSEMBLY. WHENEVER THE HOOD PANEL IS INDEXED ON THE EXHAUST FAN AND THE MAKE–UP AIR UNIT SHALL OPERATE. THE GAS BURNER IN THE MAKE–UP AIR UNIT SHALL FIRE TO MAINTAIN DISCHARGE AIR SET–POINT. WHEN THE MAKE–UP AIR UNIT IS ON, ITS ASSOCIATED INTAKE MOTORIZED DAMPER SHALL BE OPEN. WHEN THE MAKE–UP AIR UNIT IS OFF, ITS ASSOCIATED INTAKE MOTORIZED DAMPER SHALL BE CLOSED. WHENEVER THE SYSTEM IS SHUT–DOWN THE OUTSIDE AIR INTAKE DAMPER SHALL REMAIN CLOSED. PROVIDE ALL CONTROLS REQUIRED TO INTERLOCK EXHAUST FAN AND MAKE–UP AIR UNIT OPERATION TO THE EXHAUST HOOD OPERATION.

B. PROVIDE A LOW LIMIT SENSOR IN THE MAKE–UP AIR UNIT DISCHARGE ARRANGED TO PREVENT WINTER DISCHARGE TEMPERATURE FROM DROPPING BELOW 50°F (ADJUSTABLE).

C. PROVIDE A HIGH LIMIT SENSOR IN THE MAKE–UP AIR UNIT DISCHARGE ARRANGED TO PREVENT WINTER DISCHARGE TEMPERATURE FROM RISING ABOVE 120°F (ADJUSTABLE).

7. ELECTRIC HEATERS (EH–1, EH–3, EH–4 AND EH–5):

A. ELECTRIC HEATERS SHALL BE OPERATED THROUGH FACTORY CONTROLS. A FACTORY THERMOSTAT SHALL ENERGIZE THE ELECTRIC HEATING ELEMENT AS REQUIRED TO MAINTAIN SPACE SET–POINT. WHENEVER ELECTRIC HEATING ELEMENT IS ENERGIZED THE UNIT FAN SHALL BE OPERATIONAL.

8. ELECTRIC HEATER (EH–2):

A. ELECTRIC HEATER SHALL BE MANUALLY CONTROLLED VIA LOCAL CONTROLS PROVIDED WITH ELECTRIC HEATERS.

9. CONSTANT VOLUME GAS FIRED PACKAGED ROOFTOP UNITS (RTU–1, RTU–2, RTU–4 AND RTU–6):

A. GENERAL: UNIT SHALL BE PROVIDED WITH, AND OPERATED THROUGH, A 24–7 PROGRAMMABLE THERMOSTAT WITH NIGHT SET–BACK AND UNIT MOUNTED CONTROLS CAPABLE OF PROVIDING AUTOMATIC OPERATION, SET–POINT ADJUSTMENT AND ALL SEQUENCES INDICATED BELOW.
B. SUMMER OCCUPIED OPERATION: UPON START–UP, THE CONTROL CIRCUITS SHALL BE ENERGIZED. DURING OCCUPIED MODE THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL OPEN TO THE MINIMUM POSITION AND THE RETURN DAMPER SHALL BE OPEN. A TEMPERATURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK SHALL BE ARRANGED TO CYCLE DX COOLING ON/OFF IN STAGES AS REQUIRED TO MAINTAIN A CONSTANT DISCHARGE SET–POINT.
C. WINTER OCCUPIED OPERATION: UPON START–UP, THE CONTROL CIRCUITS SHALL BE ENERGIZED. DURING OCCUPIED MODE THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL OPEN TO THE MINIMUM POSITION AND THE RETURN DAMPER SHALL BE OPEN. A TEMPERATURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK SHALL BE ARRANGED TO MODULATE GAS HEAT AS REQUIRED TO MAINTAIN A CONSTANT DISCHARGE AIR TEMPERATURE.
D. ECONOMIZER OPERATION: ON A CALL FOR COOLING WHEN THE AMBIENT OUTDOOR AIR CONDITIONS PERMIT (AS DETERMINED BY DIFFERENTIAL ENTHALPY CONTROLS) THE UNIT CONTROLS SHALL MODULATE THE OUTSIDE AIR, RELIEF AIR AND RETURN AS REQUIRED TO PROVIDE "FREE COOLING" AND MAINTAIN DISCHARGE SET–POINT. DURING ECONOMIZER OPERATION THE DX COOLING AND GAS HEATING SHALL NOT BE OPERATIONAL. CONTROL ACTION SHALL BE THAT AN INCREASE IN SUPPLY AIR TEMPERATURE WILL CAUSE THE OUTSIDE AIR AND RELIEF AIR DAMPERS TO MODULATE TOWARDS THE OPEN POSITION AND THE RETURN AIR DAMPER TO MODULATE TOWARDS THE CLOSED POSITION. A DROP IN TEMPERATURE BELOW SET–POINT WILL CAUSE THE REVERSE TO OCCUR. WHEN THE OUTSIDE AIR AND RELIEF AIR DAMPER OPEN TO FULL POSITION AND A FURTHER CALL FOR COOLING OCCURS THE DX COOLING SYSTEM SHALL OPERATE. WHEN AMBIENT AIR CONDITIONS ARE NO LONGER SUITABLE FOR ECONOMIZER OPERATION THE UNIT CONTROLS SHALL REVERT TO NORMAL OPERATION.
E. MORNING WARM–UP OPERATION: THE UNIT SHALL START AND OPERATE FOR A PREDETERMINED PERIOD AS PROGRAMMED INTO THE UNIT CONTROLLER. DURING THIS CYCLE, THE OUTSIDE AIR AND RELIEF AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. THE GAS HEATING SHALL MODULATE TO MAINTAIN SET–POINT. WHEN ZONE TEMPERATURES ARE WITHIN 2 DEGREES OF SET–POINT THE UNIT SHALL OPERATE IN OCCUPIED MODE.
F. MORNING COOL–DOWN OPERATION: UNIT SHALL START AND OPERATE FOR A PREDETERMINED PERIOD AS PROGRAMMED INTO THE UNIT CONTROLLER. DURING THIS CYCLE, THE OUTSIDE AIR AND RELIEF AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. DX COOLING SHALL CYCLE TO MAINTAIN SET–POINT. WHEN ZONE TEMPERATURES ARE WITHIN 2 DEGREES OF SET–POINT THE UNIT SHALL OPERATE IN OCCUPIED MODE.
G. UNOCCUPIED OPERATION: UNIT SUPPLY FAN, GAS HEATING AND DX COOLING SHALL CYCLE AS REQUIRED ON A CALL FOR HEATING OR COOLING. DURING THIS MODE, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE FULL CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN.
H. LIMIT CONTROLS: PROVIDE HIGH/LOW LIMIT CONTROL SENSORS IN THE SUPPLY FAN DISCHARGE ARRANGED TO OVERRIDE TEMPERATURE CONTROLS AND PREVENT DISCHARGE TEMPERATURE FROM DROPPING BELOW 50 DEGREES F OR RISING ABOVE 110 DEGREES F (ADJUSTABLE).
I. MISCELLANEOUS:
- WHENEVER THE UNITS ARE SHUT–DOWN THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN.
- UNIT SHALL SHUT–DOWN UPON DETECTION OF SMOKE AS SENSED BY DUCT MOUNTED SMOKE DETECTOR.
- PROVIDE A FIRESTAT MOUNTED IN THE SUPPLY AIR DUCTWORK ARRANGED TO SHUT–DOWN THE UNIT WHEN SUPPLY AIR TEMPERATURE EXCEEDS 140° (ADJUSTABLE). FIRESTAT SHALL BE MANUALLY RESET TYPE.

10. DUCTLESS SPLIT SYSTEM CEILING CASSETTE UNIT AND HEAT PUMP (AC–1 AND HP–1):

A. SYSTEM SHALL BE OPERATED THROUGH A FACTORY PROVIDED WIRED REMOTE CONTROLLER, CAPABLE OF PROVIDING SET–POINT ADJUSTMENTS AND ALL PROGRAMMING FOR CONTROL SEQUENCES. THE SYSTEM SHALL CYCLE ON/OFF AS REQUIRED TO MAINTAIN SPACE SET–POINT. THE FACTORY INSTALLED CONTROLS SHALL BE CONFIGURED SUCH THAT A LEAK DETECTOR MOUNTED IN THE INDOOR UNIT DRAIN PAN SHALL BE ARRANGED TO SHUT–DOWN THE SYSTEM WHEN WATER IS DETECTED.

11. VARIABLE AIR VOLUME GAS FIRED PACKAGED ROOFTOP UNITS (RTU–3 AND RTU–5):

A. GENERAL: UNIT SHALL BE PROVIDED WITH, AND OPERATED THROUGH, A 24–7 PROGRAMMABLE THERMOSTAT WITH NIGHT SET–BACK AND UNIT MOUNTED CONTROLS CAPABLE OF PROVIDING AUTOMATIC OPERATION, SET–POINT ADJUSTMENT AND ALL SEQUENCES INDICATED BELOW.
B. SUMMER OCCUPIED OPERATION: UPON START–UP, THE CONTROL CIRCUITS SHALL BE ENERGIZED. DURING OCCUPIED MODE THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL OPEN TO THE MINIMUM POSITION AND THE RETURN DAMPER SHALL BE OPEN. A TEMPERATURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK SHALL BE ARRANGED TO CYCLE DX COOLING ON/OFF IN STAGES AS REQUIRED TO MAINTAIN A CONSTANT DISCHARGE SET–POINT.
C. WINTER OCCUPIED OPERATION: UPON START–UP, THE CONTROL CIRCUITS SHALL BE ENERGIZED. DURING OCCUPIED MODE THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL OPEN TO THE MINIMUM POSITION AND THE RETURN DAMPER SHALL BE OPEN. A TEMPERATURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK SHALL BE ARRANGED TO MODULATE GAS HEAT AS REQUIRED TO MAINTAIN A CONSTANT DISCHARGE AIR TEMPERATURE.
D. ECONOMIZER OPERATION: ON A CALL FOR COOLING WHEN THE AMBIENT OUTDOOR AIR CONDITIONS PERMIT (AS DETERMINED BY DIFFERENTIAL ENTHALPY CONTROLS) THE UNIT CONTROLS SHALL MODULATE THE OUTSIDE AIR, RELIEF AIR AND RETURN AS REQUIRED TO PROVIDE "FREE COOLING" AND MAINTAIN DISCHARGE SET–POINT. DURING ECONOMIZER OPERATION THE DX COOLING AND GAS HEATING SHALL NOT BE OPERATIONAL. CONTROL ACTION SHALL BE THAT AN INCREASE IN SUPPLY AIR TEMPERATURE WILL CAUSE THE OUTSIDE AIR AND RELIEF AIR DAMPERS TO MODULATE TOWARDS THE OPEN POSITION AND THE RETURN AIR DAMPER TO MODULATE TOWARDS THE CLOSED POSITION. A DROP IN TEMPERATURE BELOW SET–POINT WILL CAUSE THE REVERSE TO OCCUR. WHEN THE OUTSIDE AIR AND RELIEF AIR DAMPER OPEN TO FULL POSITION AND A FURTHER CALL FOR COOLING OCCURS THE DX COOLING SYSTEM SHALL OPERATE. WHEN AMBIENT AIR CONDITIONS ARE NO LONGER SUITABLE FOR ECONOMIZER OPERATION THE UNIT CONTROLS SHALL REVERT TO NORMAL OPERATION.
E. MORNING WARM–UP OPERATION: THE UNIT SHALL START AND OPERATE FOR A PREDETERMINED PERIOD AS PROGRAMMED INTO THE UNIT CONTROLLER. DURING THIS CYCLE, THE OUTSIDE AIR AND RELIEF AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. THE GAS HEATING SHALL MODULATE TO MAINTAIN SET–POINT. VARIABLE AIR VOLUME BOXES SHALL BE OPEN. WHEN ZONE TEMPERATURES ARE WITHIN 2 DEGREES OF SET–POINT THE UNIT SHALL OPERATE IN OCCUPIED MODE.
F. MORNING COOL–DOWN OPERATION: UNIT SHALL START AND OPERATE FOR A PREDETERMINED PERIOD AS PROGRAMMED INTO THE UNIT CONTROLLER. DURING THIS CYCLE, THE OUTSIDE AIR AND RELIEF AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. DX COOLING SHALL CYCLE TO MAINTAIN SET–POINT. VARIABLE AIR VOLUME BOXES SHALL BE OPEN. WHEN ZONE TEMPERATURES ARE WITHIN 2 DEGREES OF SET–POINT THE UNIT SHALL OPERATE IN OCCUPIED MODE.
G. UNOCCUPIED OPERATION: UNIT SUPPLY FAN, GAS HEATING AND DX COOLING SHALL CYCLE AS REQUIRED ON A CALL FOR HEATING OR COOLING. DURING THIS MODE, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE FULL CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. DURING UNOCCUPIED MODE VARIABLE AIR VOLUME BOXES SHALL BE OPEN.
H. STATIC PRESSURE CONTROLS: PROVIDE A STATIC PRESSURE SENSOR LOCATED IN THE MAIN SUPPLY DUCT APPROXIMATELY TWO–THIRDS (⅔) DOWNSTREAM ALONG THE LONGEST RUN. CONTROLS SHALL BE ARRANGED TO MODULATE THE UNIT VARIABLE FREQUENCY DRIVE ON THE SUPPLY FAN TO MAINTAIN A CONSTANT STATIC PRESSURE. A RISE IN PRESSURE SHALL CAUSE THE VARIABLE FREQUENCY DRIVE TO REDUCE FAN SPEED. A DROP IN STATIC PRESSURE SHALL CAUSE THE REVERSE TO TAKE PLACE.
I. LIMIT CONTROLS: PROVIDE HIGH/LOW LIMIT CONTROL SENSORS IN THE SUPPLY FAN DISCHARGE ARRANGED TO OVERRIDE TEMPERATURE CONTROLS AND PREVENT DISCHARGE TEMPERATURE FROM DROPPING BELOW 50 DEGREES F OR RISING ABOVE 110 DEGREES F (ADJUSTABLE).
J. MISCELLANEOUS:
- WHENEVER THE UNITS ARE SHUT–DOWN THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN.
- UNIT SHALL SHUT–DOWN UPON DETECTION OF SMOKE AS SENSED BY DUCT MOUNTED SMOKE DETECTOR.
- PROVIDE A FIRESTAT MOUNTED IN THE SUPPLY AIR DUCTWORK ARRANGED TO SHUT–DOWN THE UNIT WHEN SUPPLY AIR TEMPERATURE EXCEEDS 140° (ADJUSTABLE). FIRESTAT SHALL BE MANUALLY RESET TYPE.

12. VARIABLE AIR VOLUME BOXES:

A. IN OCCUPIED MODE THE SPACE SENSOR SHALL MODULATE THE VAV BOX DAMPER ASSEMBLY TO MAINTAIN SET–POINT. IN SUMMER MODE A RISE IN SPACE TEMPERATURE SHALL CAUSE THE VAV DAMPER TO MODULATE OPEN, AS THE SPACE APPROACHES SET–POINT, THE DAMPER SHALL MODULATE TO THE MINIMUM POSITION. IN THE WINTER MODE A DROP IN SPACE TEMPERATURE SHALL CAUSE THE VAV DAMPER TO MODULATE OPEN, AS THE SPACE APPROACHES SET–POINT, THE DAMPER SHALL MODULATE TO THE MINIMUM POSITION.
B. THE DDC CONTROLLER IN THE ROOFTOP UNIT SHALL RESET THE SUPPLY AIR TEMPERATURE BASED ON SATISFYING THE VAV ZONE THAT IS EITHER FURTHEST FROM SET–POINT OR THE VAV ZONE THAT HAS THE HIGHEST AIR–FLOW WHILE MAINTAINING SET–POINT.
C. WHEN THE ROOFTOP UNIT IS OPERATING IN THE UNOCCUPIED, MORNING COOL–DOWN OR MORNING WARM–UP MODE THE VAV BOXES SHALL REMAIN IN THE FULL OPEN POSITION.
D. FOR VAV–7 ONLY WITH ELECTRIC REHEAT COIL, UPON A FURTHER CALL FOR SPACE HEATING THE ELECTRIC REHEAT COIL SHALL BE ENERGIZED IN STAGES AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SET–POINT.

13. AIR HANDLER UNIT AND HEAT PUMP (HVAC–1 AND HP–1):

A. SYSTEM SHALL BE OPERATED THROUGH A FACTORY PROVIDED WIRED REMOTE CONTROLLER, CAPABLE OF PROVIDING SET–POINT ADJUSTMENTS AND ALL PROGRAMMING FOR CONTROL SEQUENCES. THE SYSTEM SHALL CYCLE ON/OFF AS REQUIRED TO MAINTAIN SPACE SET–POINT. THE FACTORY INSTALLED CONTROLS SHALL BE CONFIGURED SUCH THAT A LEAK DETECTOR MOUNTED IN THE INDOOR UNIT DRAIN PAN SHALL BE ARRANGED TO SHUT–DOWN THE SYSTEM WHEN WATER IS DETECTED.
B. WHENEVER THE SYSTEM IS OPERATING IN THE OCCUPIED MODE THE MOTORIZED OUTSIDE AIR INTAKE DAMPER SHALL BE OPEN. WHENEVER THE SYSTEM IS OPERATING IN THE UNOCCUPIED MODE THE MOTORIZED OUTSIDE AIR INTAKE DAMPER SHALL BE CLOSED.

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MECHANICAL:
EQUIPMENT SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
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Job No. 4.1552.01
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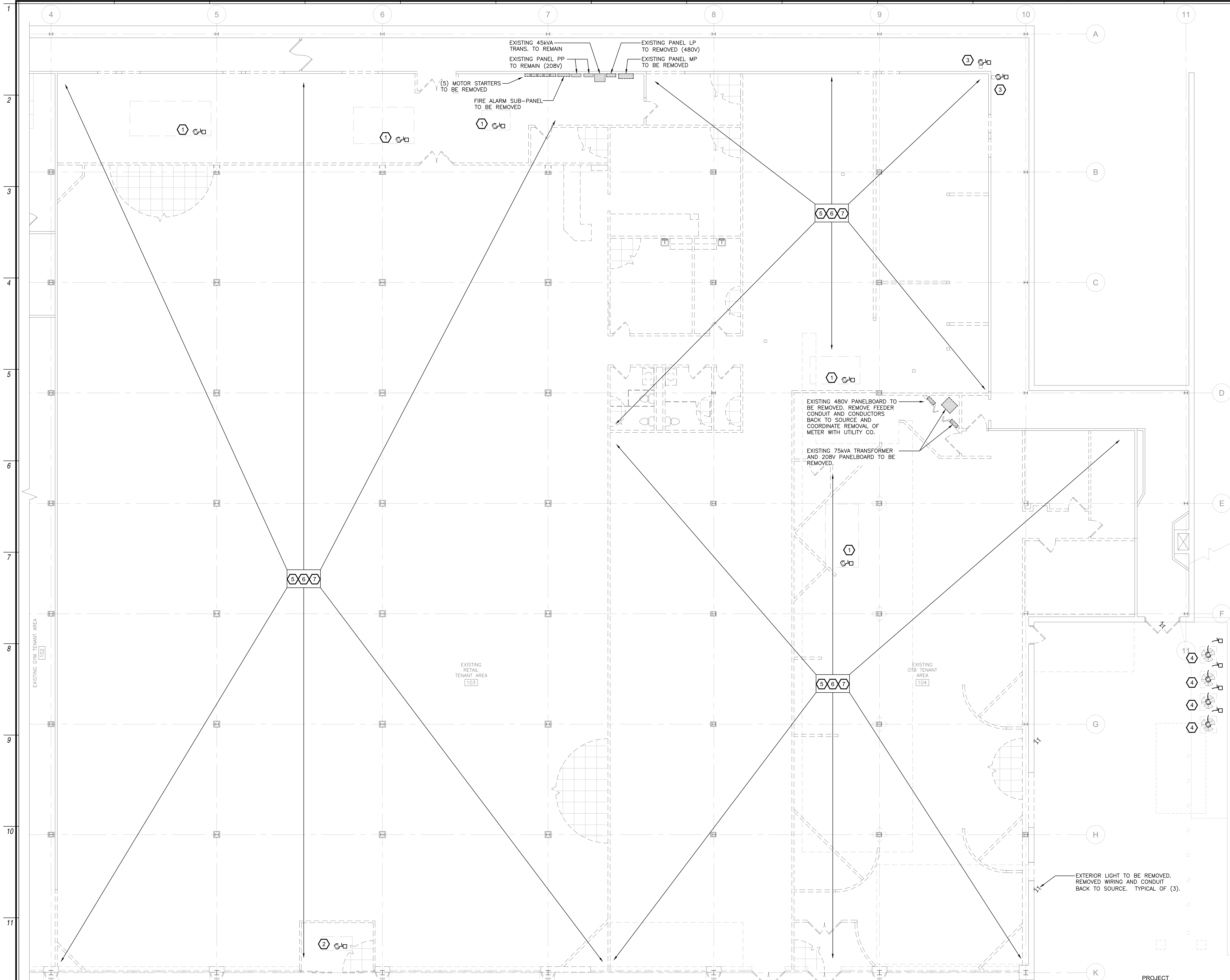


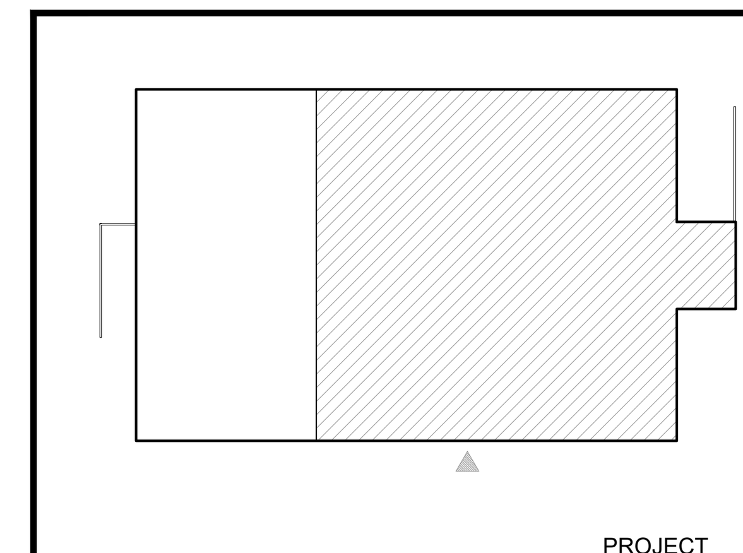
1 E1.01 ELECTRICAL: PARTIAL FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. AIR HANDLER TO BE REMOVED. DISCONNECT AND REMOVE ALL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.
2. CABINET UNIT HEATER TO BE REMOVED. DISCONNECT AND REMOVE ALL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.
3. ELECTRIC UNIT HEATER TO BE REMOVED. DISCONNECT AND REMOVE ALL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.
4. AIR COOLED CONDENSING UNIT TO BE REMOVED. DISCONNECT AND REMOVE ALL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.
5. DISCONNECT AND REMOVE ALL ELECTRICAL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, RECEPTACLES, DEVICES, ETC, BACK TO SOURCE UNLESS OTHERWISE NOTED.
6. DISCONNECT AND REMOVE ALL LIGHT FIXTURES AND ASSOCIATED CIRCUITRY, CONDUIT, BOXES, SUPPORTS, SWITCHES, ETC. BACK TO SOURCE.
7. DISCONNECT AND REMOVE ALL FIRE ALARM DEVICES AND ASSOCIATED WIRING, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.



KEY PLAN

NOT TO SCALE

Date	10/15/21
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GERARD HLUCHAN

Title LICENSED PROFESSIONAL ENGINEER New York License No. 069684

Revisions:

1 PERMIT SET 10/15/21

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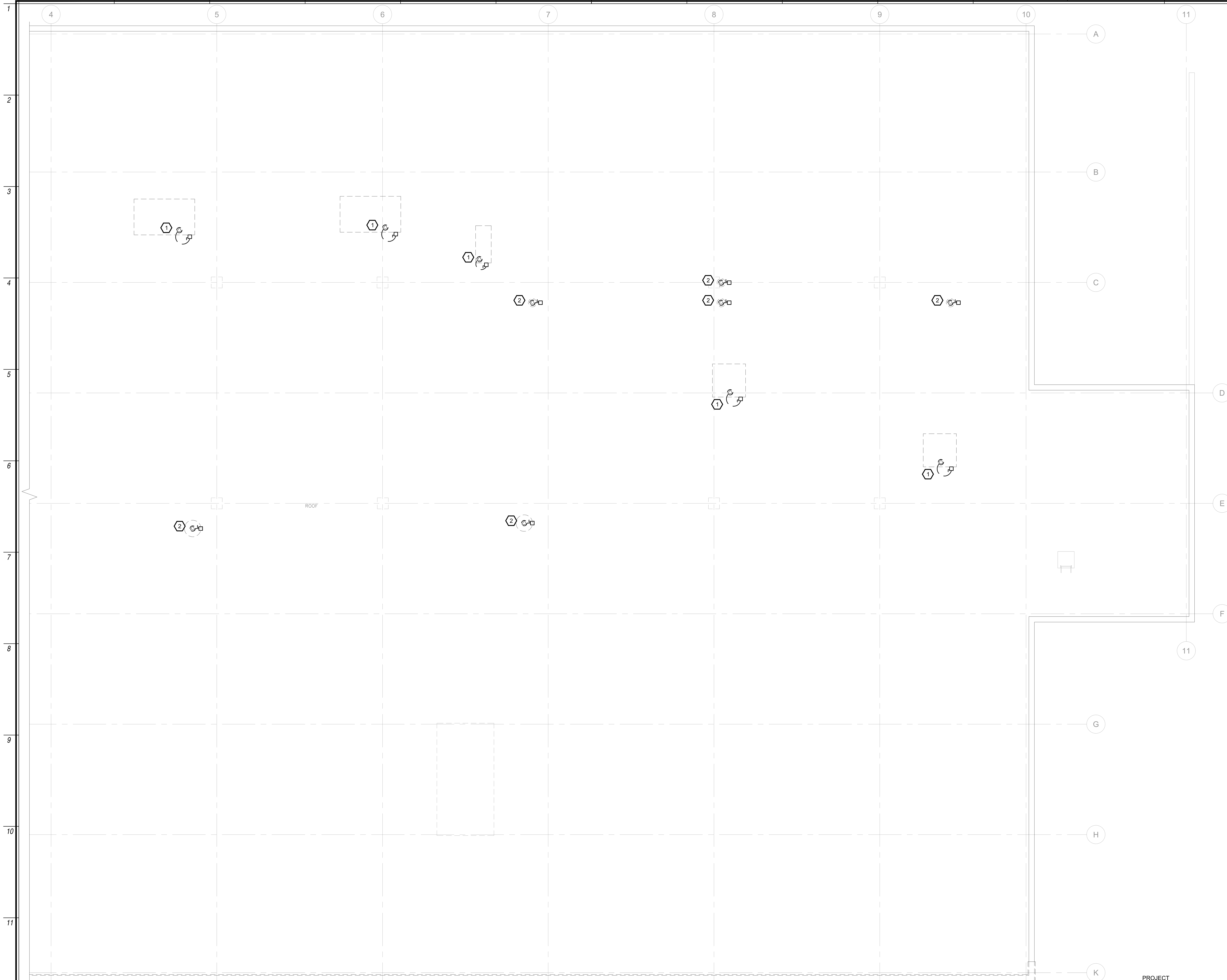
ELECTRICAL:
PARTIAL FIRST FLOOR DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E101

E1.01



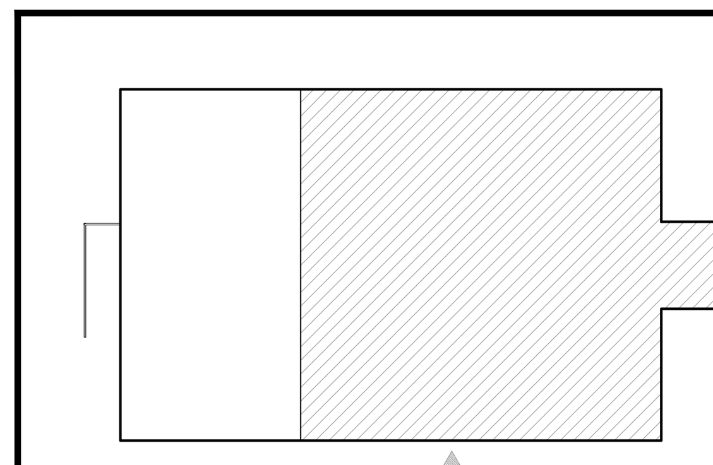
1/E1.03 ELECTRICAL: PARTIAL ROOF DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

PROJECT NORTH

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. AIR COOLED CONDENSING UNIT TO BE REMOVED. DISCONNECT AND REMOVE ALL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.
2. EXHAUST FAN TO BE REMOVED. DISCONNECT AND REMOVE ALL CIRCUITRY, CONDUIT, BOXES, SUPPORTS, ETC. BACK TO SOURCE.



KEY PLAN

NOT TO SCALE

PROJECT NORTH

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ELECTRICAL:
PARTIAL ROOF DEMOLITION PLAN

ASPIRE BREWING TAP ROOM & BREWERY
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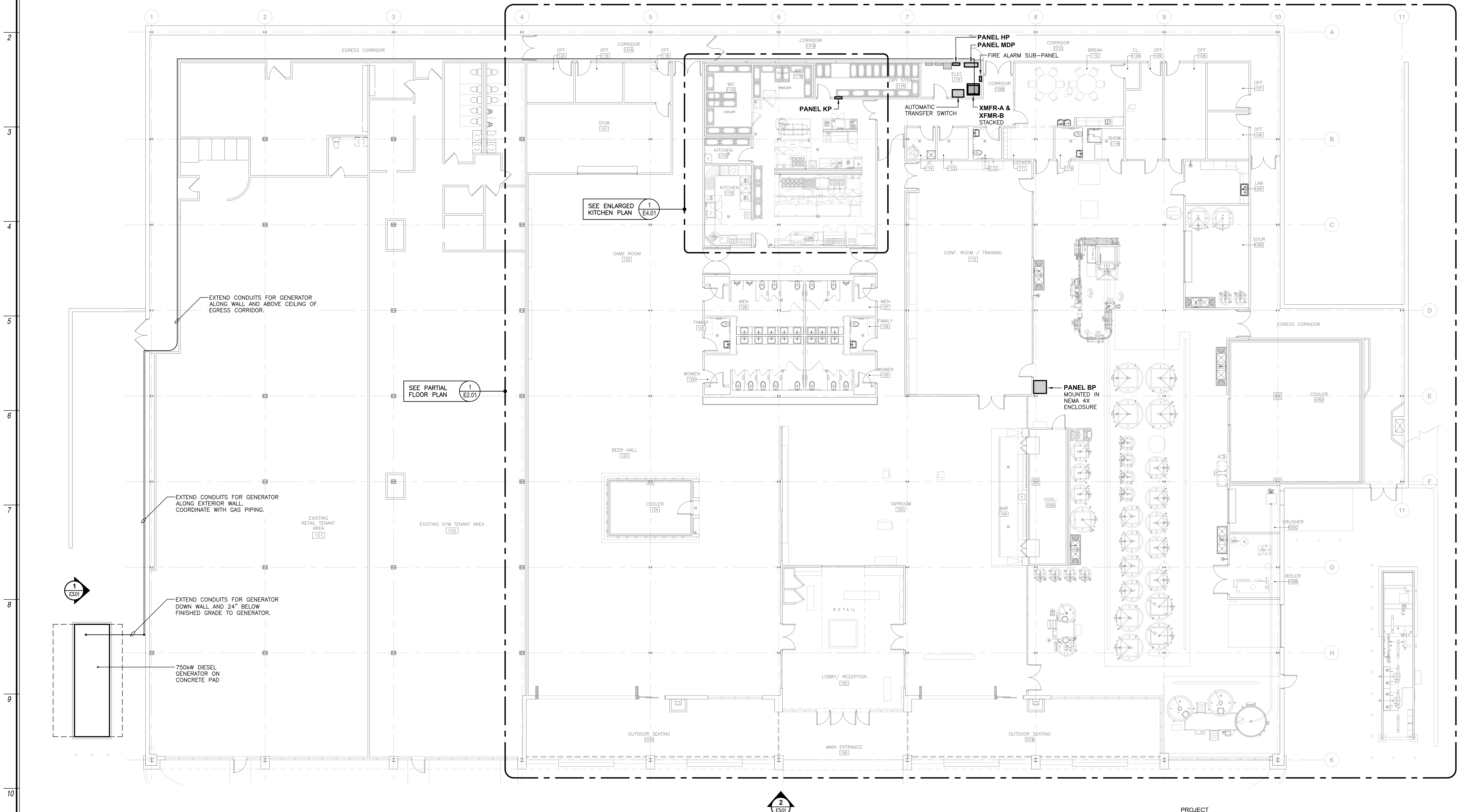
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 E103

E1.02

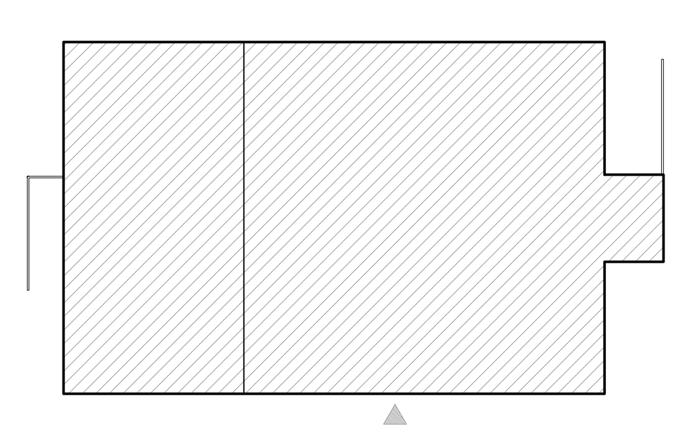


ELECTRICAL: FIRST FLOOR PLAN

1 E2.00

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

PROJECT NORTH



KEY PLAN

NOT TO SCALE

PROJECT NORTH

Date	10/15/21
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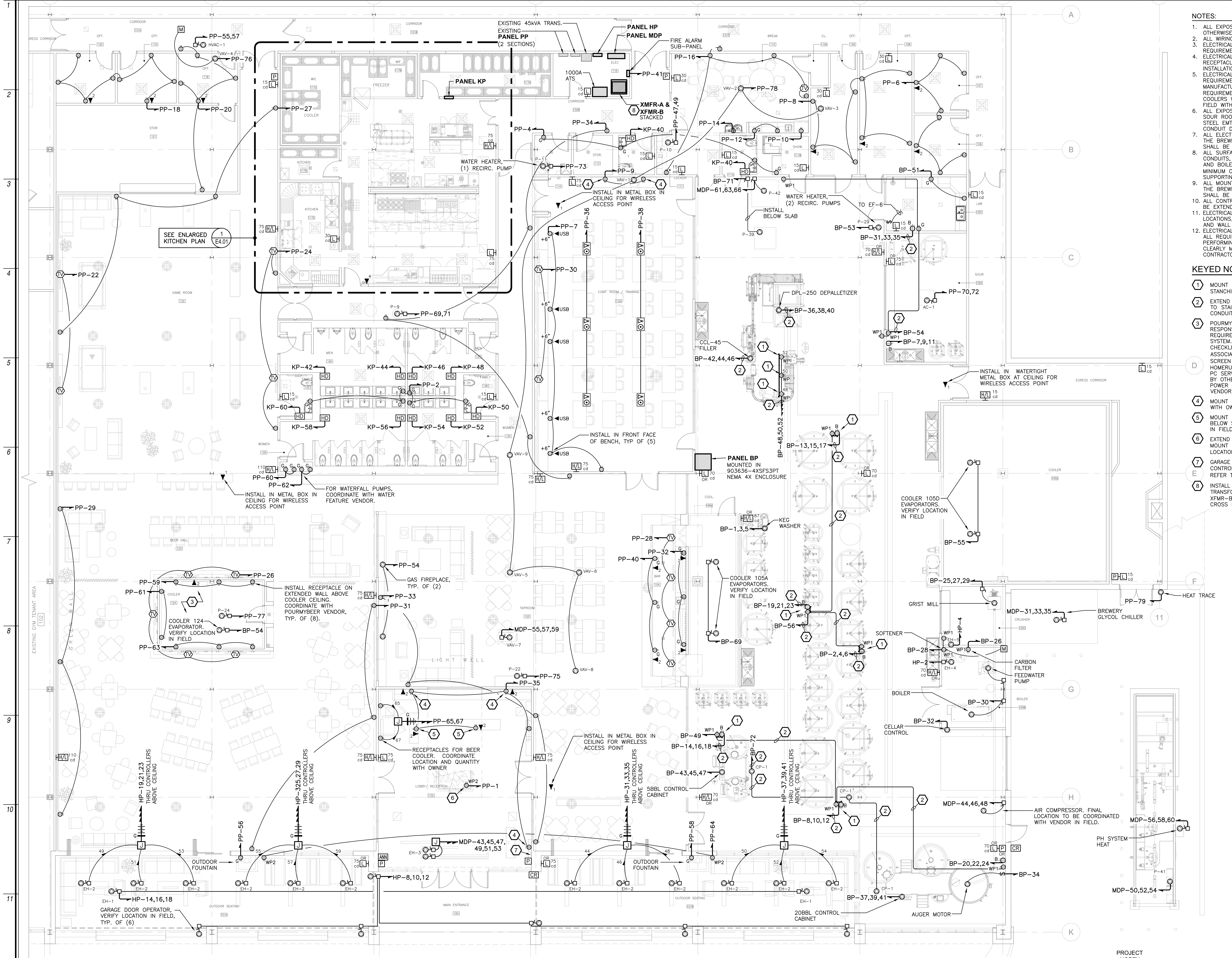
ELECTRICAL: FIRST FLOOR PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E200

E2.00



ELECTRICAL: PARTIAL FIRST FLOOR PLAN

1 / E2.01

SCALE: 1/8" = 1'-0"

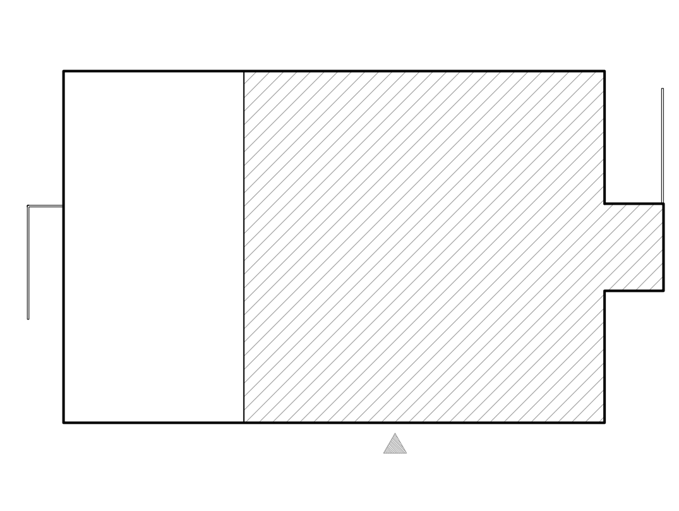
PROJECT NORTH

NOTES:

1. ALL EXPOSED WIRING SHALL BE INSTALLED IN EMT UNLESS OTHERWISE INDICATED.
2. ALL WIRING IN WALLS AND ABOVE CEILING SHALL BE TYPE MC CABLE.
3. ELECTRICAL CONTRACTOR SHALL VERIFY ALL BREWERY EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL BREWERY AREA RECEPTACLE TYPES, LOCATIONS, HEIGHTS, ETC. PRIOR TO INSTALLATION.
5. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COOLER EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION MANUALS FOR FINAL WIRING REQUIREMENTS. COORDINATE ALL INSTALLATIONS ASSOCIATED WITH COOLERS WITH COOLER VENDOR.COORDINATE ALL CONDUIT ROUTING IN FIELD WITH OTHER TRADES.
6. ALL EXPOSED ELECTRICAL CONDUIT IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE STAINLESS STEEL EMT WITH STAINLESS STEEL WATERTIGHT FITTINGS. PROVIDE CONDUIT DRAINS AT LOWEST POINT OF EACH CONDUIT RUN.
7. ALL ELECTRICAL JUNCTION BOXES, DISCONNECT SWITCHES, ETC. IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE NEMA 4X.
8. ALL SURFACE MOUNTED ELECTRICAL BOXES, DISCONNECTS, FITTINGS, CONDUITS, ETC. IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE MOUNTED SUCH THAT THERE IS A MINIMUM OF ¼" OF AIRSPACE BETWEEN IT AND A WALL OR SUPPORTING SURFACE.
9. ALL MOUNTING HARDWARE, SUPPORTS, HANGERS, UNISTRUT, ETC. IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE STAINLESS STEEL.
10. ALL CONTROL AND DATA WIRING WITHIN THE BREWERY AREA SHALL BE EXTENDED IN CONDUIT AS DESCRIBED ABOVE.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE RECEPTACLE AND DATA LOCATIONS, MOUNTING TYPES, AND HEIGHTS WITH FINAL FURNITURE AND WALL LAYOUT.
12. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED SAW CUTTING OF EXISTING SLAB AS REQUIRED FOR PERFORMING ELECTRICAL SCOPE. ELECTRICAL CONTRACTOR SHALL CLEARLY MARK OUT LOCATIONS OF SAW CUTTING FOR THE GENERAL CONTRACTOR.

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. MOUNT RECEPTACLES 24" AFF TO STAINLESS STEEL UNISTRUT STANCHION. COORDINATE LOCATION IN FIELD.
2. EXTEND CIRCUITRY IN SCHEDULE 40 PVC BELOW SLAB. TRANSITION TO STAINLESS STEEL EMT CONDUIT PRIOR TO 90° BEND TO BRING CONDUIT ABOVE SLAB.
3. POURMYBEER SYSTEM: ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL POWER AND DATA WIRING REQUIRED BY POURMYBEER VENDOR PRIOR TO INSTALLATION OF SYSTEM. REFER TO INSTALLATION MANUALS AND PRE-INSTALLATION CHECKLIST. EXTEND (1) CAT6 FROM EACH TAP HANDLE TO EACH ASSOCIATED VALVE IN COOLER. EXTEND (1) CAT6 FROM EACH SCREEN TO ASSOCIATED NETWORK SWITCH. EXTEND (1) CAT6 HOMERUN FROM EACH NETWORK SWITCH, CHECK-IN TERMINAL, AND PC SERVER LOCATION TO I.T. RACK ON 2ND FLOOR. TERMINATIONS BY OTHERS. VERIFY TAP HANDLE, SCREEN, NETWORK SWITCH, POWER SUPPLY, ETC. QUANTITIES AND LOCATIONS WITH OWNER AND VENDOR PRIOR TO INSTALLATION.
4. MOUNT RECEPTACLE ABOVE COUNTER. COORDINATE FINAL LOCATION WITH OWNER IN FIELD.
5. MOUNT RECEPTACLE INSIDE COUNTER. EXTEND WIRING IN PVC BELOW SLAB INTO BOTTOM OF CABINETRY. COORDINATE WITH OWNER IN FIELD.
6. EXTEND CIRCUITRY IN PVC CONDUIT BELOW SLAB TO RECEPTACLE. MOUNT RECEPTACLE TO RIGID CONDUIT 6" AFF. COORDINATE FINAL LOCATION IN FIELD.
7. GARAGE DOOR CONTROLLER LOCATION. PROVIDE ALL REQUIRED CONTROL WIRING BETWEEN (6) DOOR OPERATORS AND CONTROLLER. REFER TO MANUFACTURER'S INSTALLATION MANUAL.
8. INSTALL UNISTRUT FRAME TO SECURE AND SUPPORT STACKED TRANSFORMER XFMR-A MINIMUM 12" CLEAR ABOVE TRANSFORMER XFMR-B. FRAME SHALL BE SECURED TO FLOOR SLAB. INSTALL CROSS BRACING AND ANGLE BRACKETS.



KEY PLAN

NOT TO SCALE

PROJECT NORTH

Date	10/15/21
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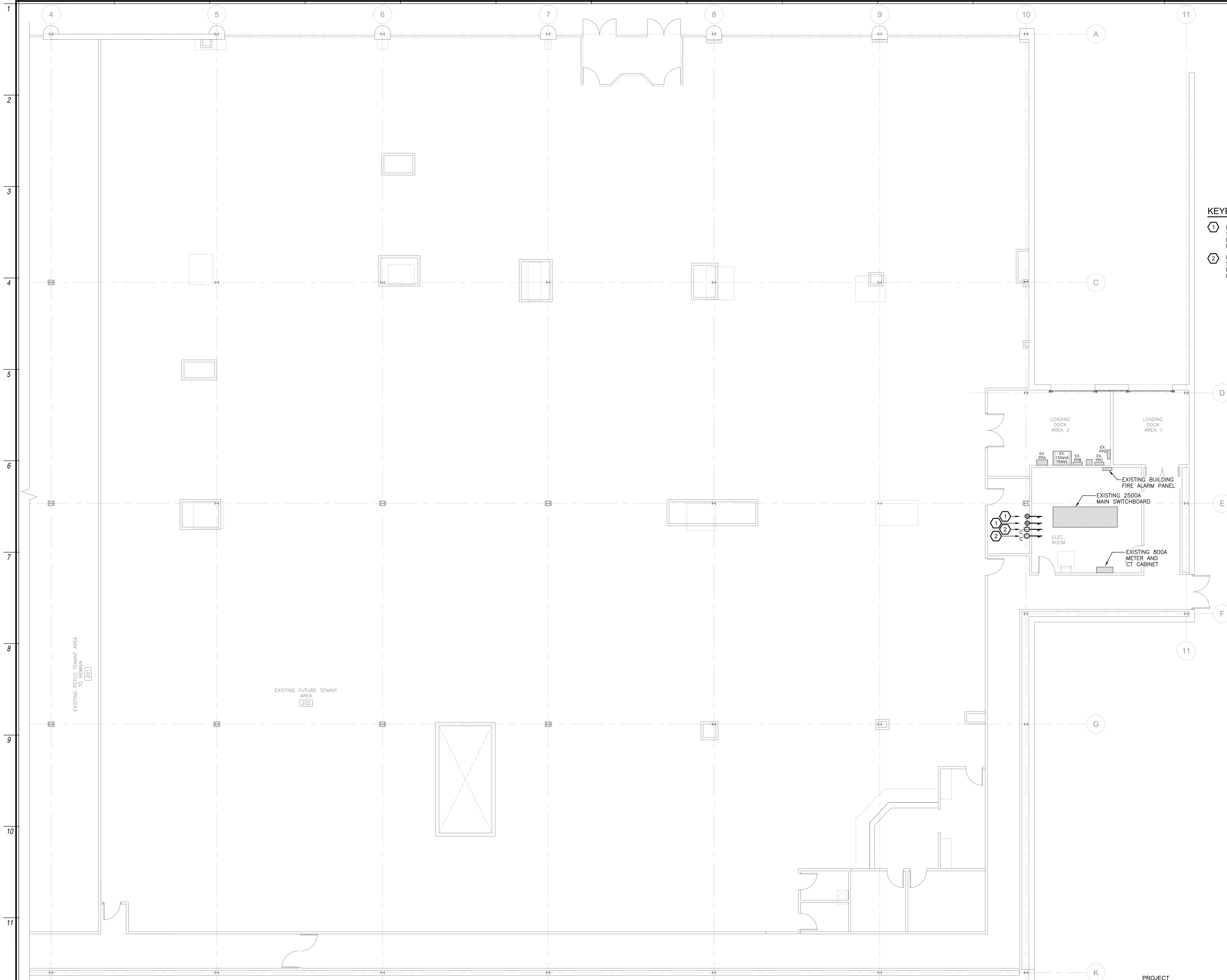
ELECTRICAL:
PARTIAL FIRST FLOOR PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E201

E2.01



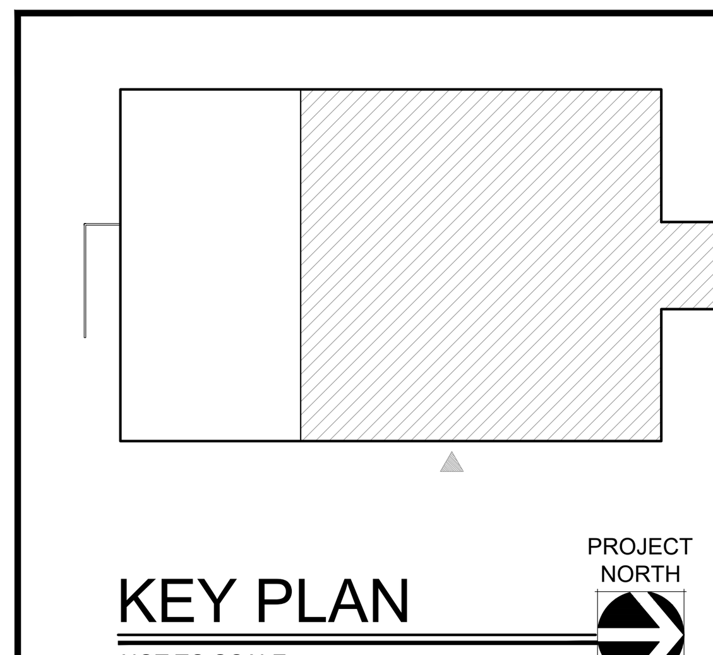
1 E2.02 ELECTRICAL: PARTIAL SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. EXTEND (2) #12 THHN, #12 GROUND, IN ¾" EMT TO NEW 20 AMPERE SINGLE-POLE CIRCUIT BREAKER IN EXISTING PANEL PPC. CIRCUIT BREAKER SHALL BE LISTED FOR USE WITH PANELBOARD AND MATCH A.I.C. RATING OF EXISTING CIRCUIT BREAKERS.
2. EXTEND (2) #10 THHN, #10 GROUND, IN ¾" EMT TO NEW 30 AMPERE SINGLE-POLE CIRCUIT BREAKER IN EXISTING PANEL PPC. CIRCUIT BREAKER SHALL BE LISTED FOR USE WITH PANELBOARD AND MATCH A.I.C. RATING OF EXISTING CIRCUIT BREAKERS.



KEY PLAN

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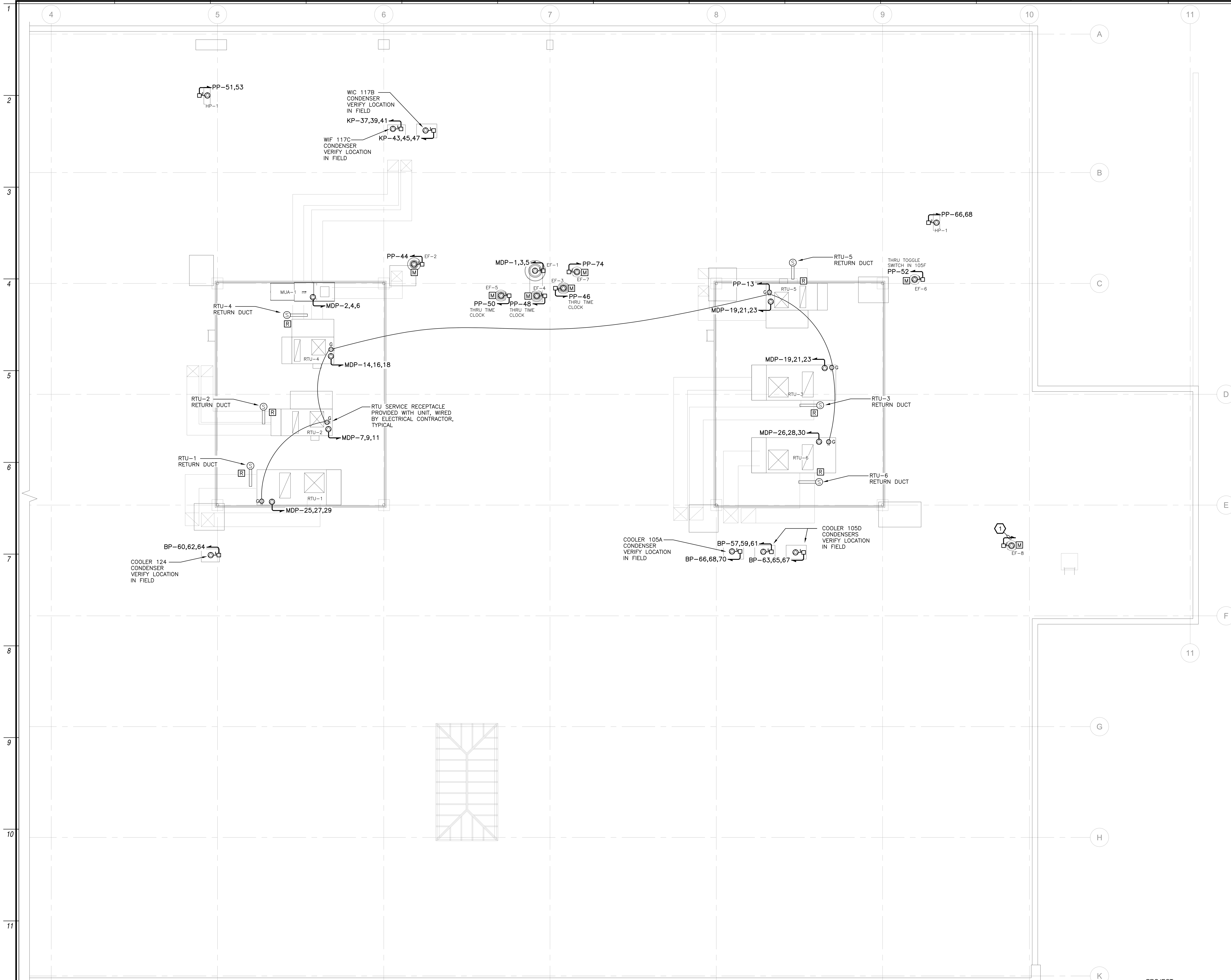
ELECTRICAL:
PARTIAL SECOND FLOOR PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E202

E2.02



1 E2.03 ELECTRICAL: PARTIAL ROOF PLAN

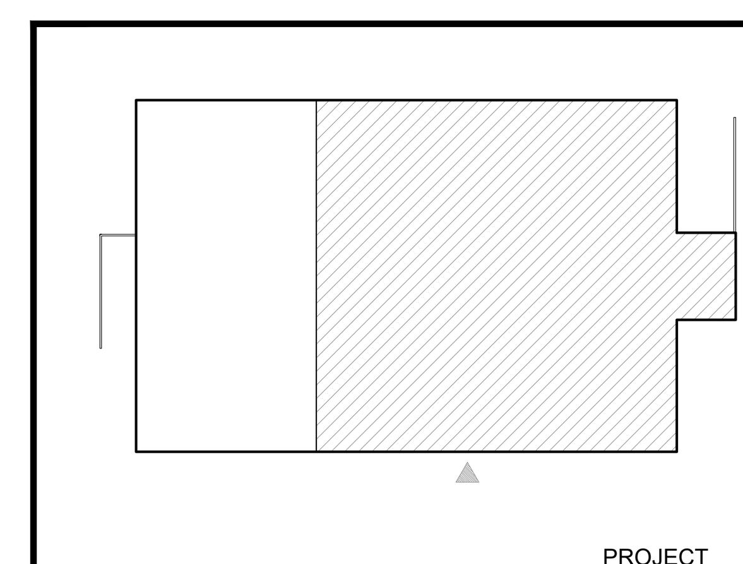
SCALE: 1/8" = 1'-0"

NOTES:

1. ALL CONDUIT TO ROOFTOP AIR CONDITIONING UNITS AND EXHAUST FANS SHALL BE EXTENDED BELOW ROOF WHEN AT ALL POSSIBLE.

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. EXTEND (2) #12 THHN, #12 GROUND, IN ¾" EMT TO NEW 20 AMPERE SINGLE-POLE CIRCUIT BREAKER IN EXISTING PANEL PPC. CIRCUIT BREAKER SHALL BE LISTED FOR USE WITH PANELBOARD AND MATCH A.I.C. RATING OF EXISTING CIRCUIT BREAKERS.



KEY PLAN

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Date	10/15/21
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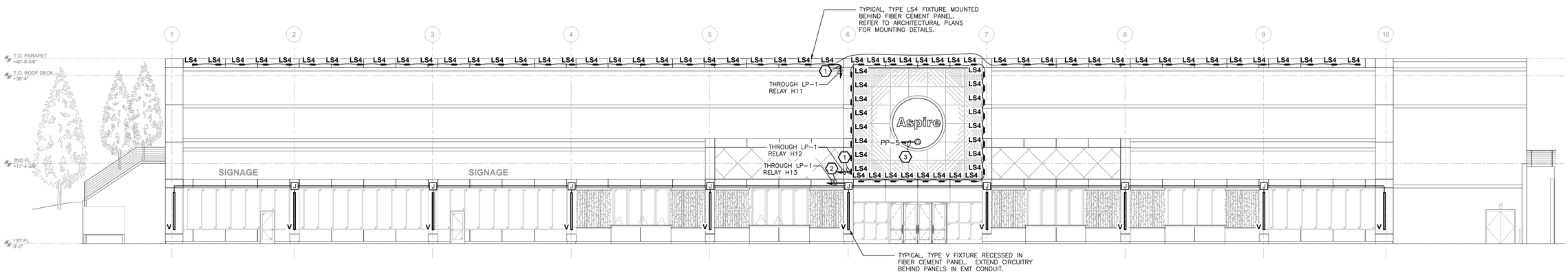
ELECTRICAL: PARTIAL ROOF PLAN

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

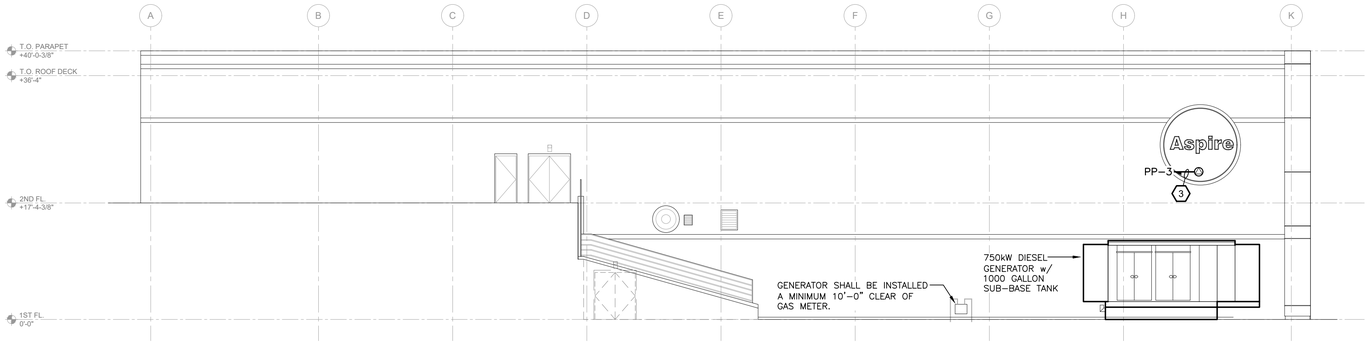
File No. 4155201 E203

E2.03



2 E3.01 ELECTRICAL: SOUTH ELEVATION

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



1 E3.01 ELECTRICAL: WEST ELEVATION

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

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. EXTEND (2) #10 THHN, #10 GND, IN ¾" EMT AND REQUIRED CONTROL WIRING TO LIGHTING CONTROL PANEL LP-1 THROUGH LUMASCAPE POWERSYNC DATA INJECTOR. REFER TO "LIGHTING CONTROL SYSTEM SCHEMATIC".
2. EXTEND (2) #10 THHN, #10 GND, IN ¾" EMT AND REQUIRED CONTROL WIRING TO STAND LIGHTING PANEL. REFER TO "LIGHTING CONTROL SYSTEM SCHEMATIC".
3. EXTERIOR SIGN LIGHT PROVIDED AND INSTALLED BY OWNER. LIGHT SHALL BE CONTROLLED BY TIME CLOCK. COORDINATE LOCATION AND VERIFY VOLTAGE WITH OWNER PRIOR TO CIRCUITRY INSTALLATION.

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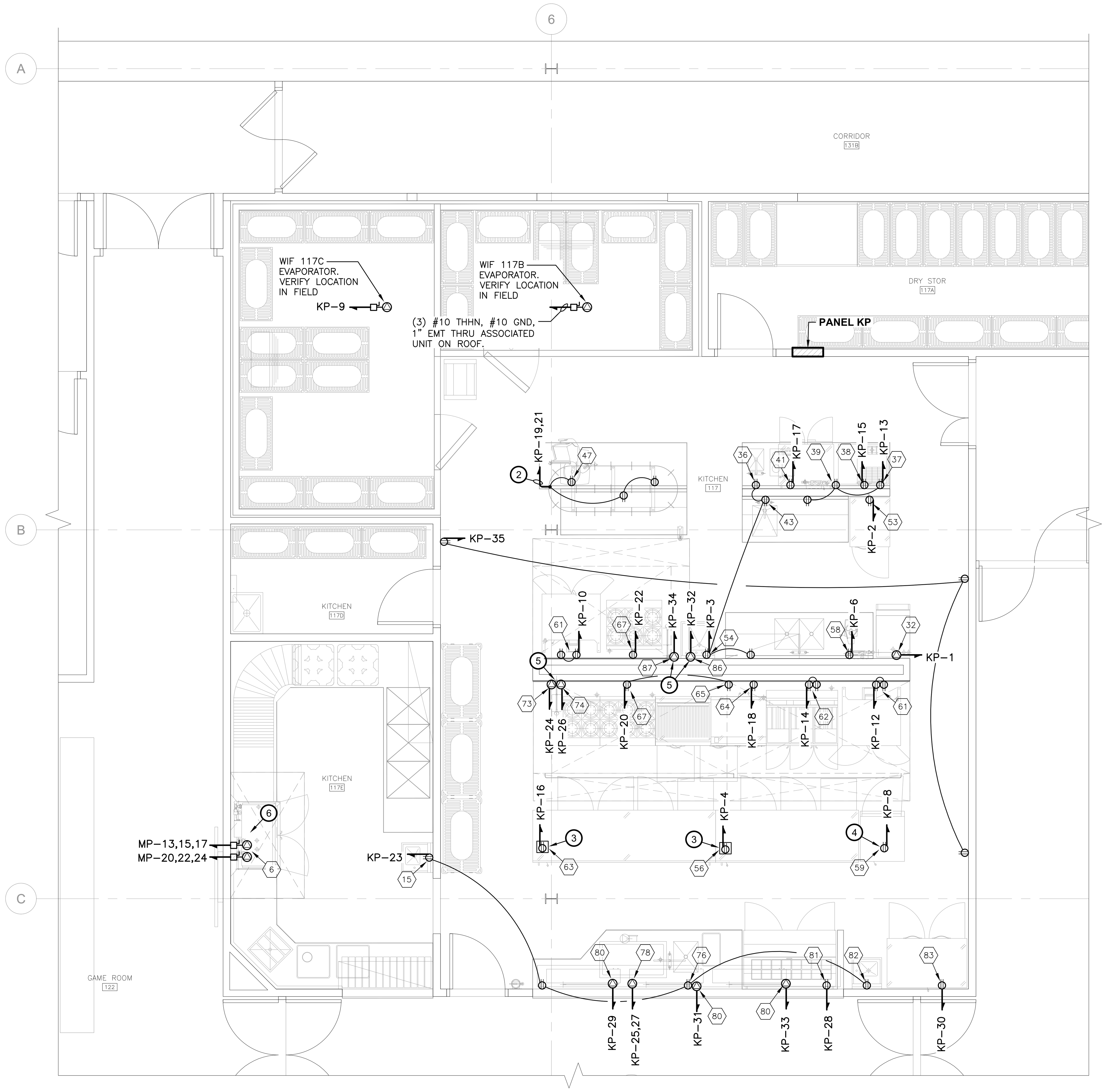
ELECTRICAL:
ELEVATIONS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E301

E3.01



ELECTRICAL: ENLARGED KITCHEN AREA PLAN

1 E4.01 — SCALE: 1/4" = 1'-0"

PROJECT NORTH

KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. NOT USED
2. EXTEND (4) #12 THHN, #12 GROUND, IN ¾" PVC BENEATH CONCRETE SLAB FLOOR TO WORK COUNTER AND SLICER RECEPTACLES. CONDUIT ABOVE SLAB SHALL BE RIGID METAL CONDUIT. COORDINATE LOCATION IN FIELD.
3. INSTALL STEEL-BODY, FLUSH MOUNTED, WATER-TIGHT, 2-GANG FLOOR BOX WITH DIVIDER (HUBBELL 6269 OR EQUAL) FOR POWER AND DATA. INSTALL (1) 15A DUPLEX RECEPTACLE AND WATERTIGHT COVER. EXTEND 1¼" PVC UNDERSLAB FROM DATA SIDE OF BOX TO ACCESSIBLE SPACE ABOVE CEILING. EXTEND CONDUCTORS FROM POWER SIDE OF BOX UNDERSLAB IN ¾" PVC.
4. MOUNT RECEPTACLE IN CEILING. COORDINATE WITH KITCHEN VENDOR.
5. REFER TO FOOD SERVICE DRAWINGS FOR ALL REQUIRED DEVICE INSTALLATION AND WIRING FOR HOOD AND FIRE SUPPRESSION SYSTEM TO BE COMPLETED BY ELECTRICAL CONTRACTOR AND COORDINATED WITH KITCHEN VENDOR.
6. EXHAUST FAN TO BE ACTIVATED BY DISHWASHER. REFER TO FOOD SERVICE DRAWINGS AND MANUFACTURER'S WIRING DIAGRAMS TO PROVIDE AND INSTALL ALL REQUIRED WIRING/DEVICES.

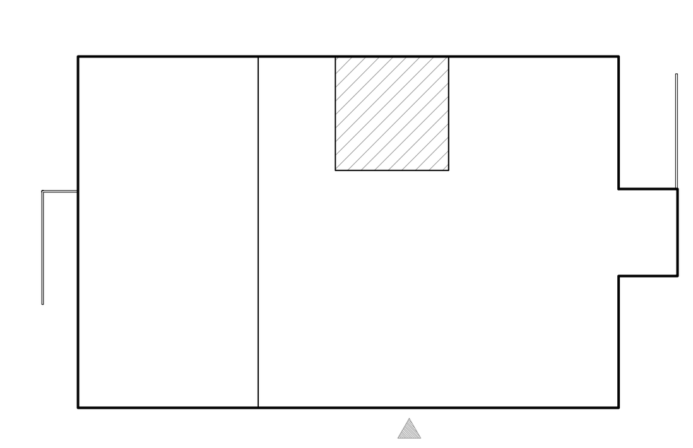
KITCHEN KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

KITCHEN EQUIPMENT ITEM NUMBER. REFER TO FOOD SERVICE DRAWINGS FOR FURTHER KITCHEN ELECTRICAL INSTALLATION DETAILS AND ELECTRICAL CONTRACTOR RESPONSIBILITIES.

NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL KITCHEN EQUIPMENT REQUIREMENTS, LOCATIONS, AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COOLER EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION MANUALS FOR FINAL WIRING REQUIREMENTS. COORDINATE ALL INSTALLATIONS ASSOCIATED WITH COOLERS WITH COOLER VENDOR.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL INSTALLATIONS DESIGNATED ON FOOD SERVICE DRAWINGS.



KEY PLAN

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ELECTRICAL:
ENLARGED KITCHEN AREA PLAN
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 E401

E4.01

NOTES:

1. COORDINATE ALL CONDUIT ROUTING IN FIELD WITH OTHER TRADES.
2. ALL EXPOSED WIRING SHALL BE INSTALLED IN EMT UNLESS OTHERWISE INDICATED.
3. WIRING IN WALLS AND ABOVE CEILING SHALL BE TYPE MC CABLE.
4. ALL EXPOSED ELECTRICAL CONDUIT IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE STAINLESS STEEL EMT WITH STAINLESS STEEL WATERTIGHT FITTINGS. PROVIDE CONDUIT DRAINS AT LOWEST POINT OF EACH CONDUIT RUN.
5. ALL ELECTRICAL JUNCTION BOXES, SWITCH BOXES, DISCONNECT SWITCHES, ETC. IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE NEMA 4X.
6. ALL SURFACE MOUNTED ELECTRICAL BOXES, DISCONNECTS, FITTINGS, CONDUITS, ETC. IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE MOUNTED SUCH THAT THERE IS A MINIMUM OF ¼" OF AIRSPACE BETWEEN IT AND A WALL OR SUPPORTING SURFACE.
7. ALL CONTROL AND DATA WIRING WITHIN THE BREWERY AREA SHALL BE EXTENDED IN CONDUIT AS DESCRIBED ABOVE.
8. ALL MOUNTING HARDWARE, SUPPORTS, HANGERS, UNISTRUT, ETC. IN THE BREWING AREA, LAB, SOUR ROOM, CRUSHER, AND BOILER ROOM SHALL BE STAINLESS STEEL.

LIGHTING CONTROL NOTES

[#] REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR LIGHTING CONTROL EQUIPMENT SPECIFICATION AND OPERATION MODE.

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. INSTALL 15A DUPLEX RECEPTACLE W/ WATERTIGHT COVER AT EACH TYPE R FIXTURE LOCATION TO ACCOMMODATE 5FT POWER CABLE. CONTROL WIRING TO EACH FIXTURE SHALL BE EXTENDED IN SEPARATE CONDUIT FROM POWER WIRING. FIXTURE LOCATIONS SHALL BE COORDINATED WITH FINAL TANK LAYOUT.
2. INSTALL COVE LIGHTS IN COVE NEAR CEILING AND BEHIND BENCHES. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE FINAL LOCATIONS IN FIELD.
3. TYPE P4 FIXTURES SHALL BE MOUNTED DIRECTLY TO BOTTOM OF CT-5 CEILING.
4. TYPE H FIXTURES SHALL BE MOUNTED SUCH THAT THE BOTTOM OF THE FIXTURE AND THE BOTTOM OF THE CT-5 CEILING ARE AT EQUAL HEIGHT ABOVE FINISHED FLOOR.
5. EXTEND CIRCUITRY IN PVC CONDUIT BELOW SLAB TO FLOOD LIGHTS. MOUNT LIGHTS TO RIGID CONDUIT 6" AFF. COORDINATE FINAL LOCATION IN FIELD.
6. INSTALL STRAND LIGHTING 10" TOUCHSCREEN WITH FLUSH MOUNTING BOX 48" AFF. COORDINATE FINAL LOCATION WITH OWNER. REFER TO 'LIGHTING CONTROL SYSTEM SCHEMATIC'.
7. INSTALL STRAND LIGHTING VISION.NET 8-BUTTON STATION 48" AFF. REFER TO 'LIGHTING CONTROL SYSTEM SCHEMATIC'.
8. INSTALL STRAND LIGHTING VISION.NET RS232/USB PROGRAMMING STATION 18" AFF. REFER TO 'LIGHTING CONTROL SYSTEM SCHEMATIC'.

1 E5.01 **ELECTRICAL:** PARTIAL FIRST REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN — NOT TO SCALE

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ELECTRICAL:
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MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E501

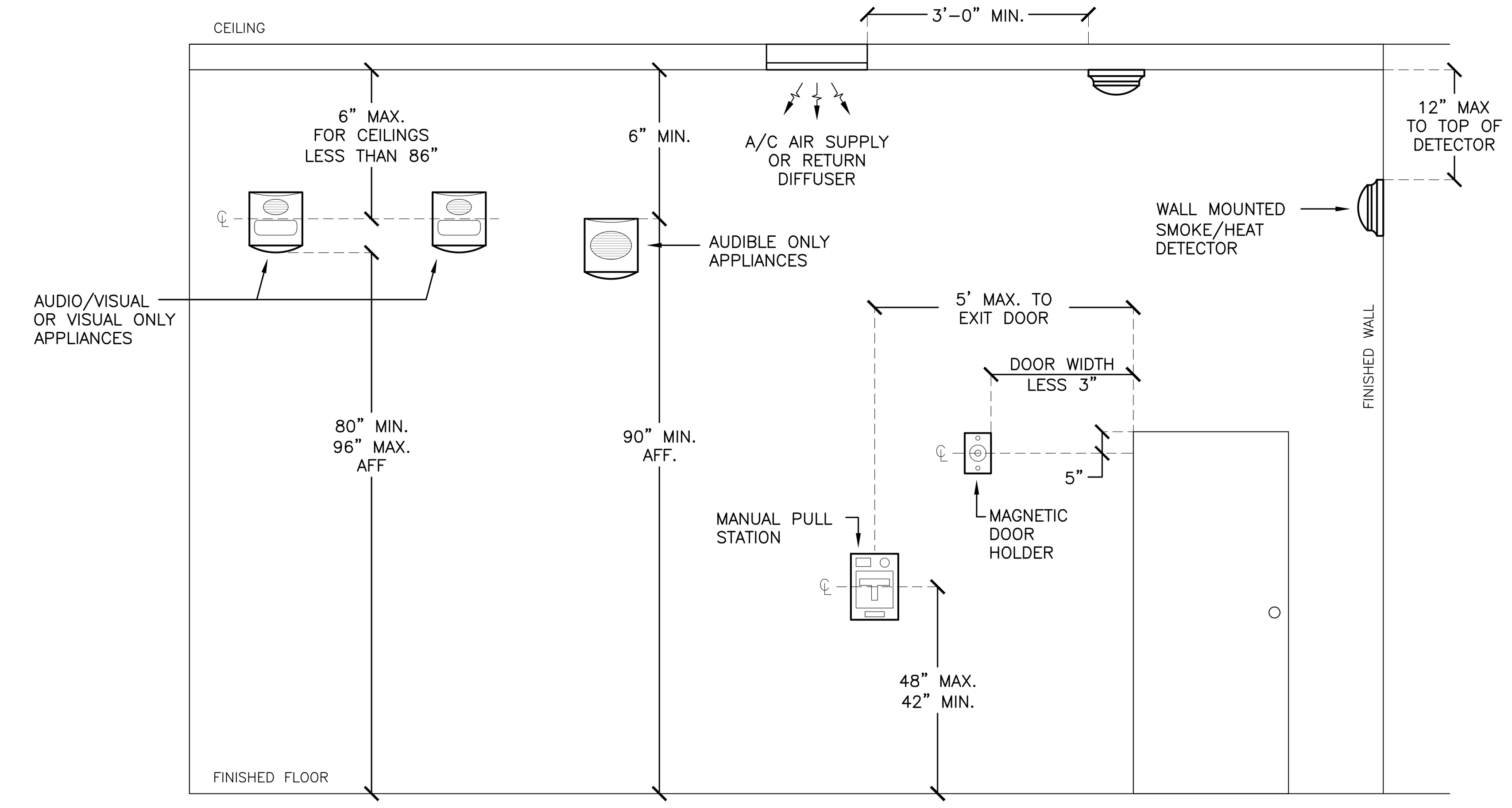
E5.01

FIRE ALARM NOTES

1. FIRE ALARM SYSTEM WIRING, NUMBER AND SIZE OF CONDUCTORS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN 18 AWG. COPPER CONDUCTOR. UL LISTED PLENUM RATED SIGNALING CABLE MAY BE USED IN CONCEALED SPACES.
2. FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE, WITH DISCREET ADDRESSES FOR EACH ACTIVATING DEVICE. MAIN PANEL SHALL IDENTIFY DEVICE BY ROOM NAMES AND LOCATIONS TO BE PROVIDED BY THE BUILDING OPERATOR.
3. FIRE ALARM SYSTEM SHALL BE COMPATIBLE WITH AND INTERFACE WITH EXISTING BUILDING FIRE ALARM SYSTEM. CONTRACTOR TO COORDINATE.
4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH NFPA 72, BUILDING CODE OF NEW YORK STATE AND ALL LOCAL CODES, INCLUDING ALL CIRCUITRY, SMOKE DETECTORS, HEAT DETECTORS, ZONE MODULES, ANNUNCIATION DEVICES, FIRE ALARM PANEL, POWER MODULES, BATTERY BACKUP, MUNICIPAL TIE AND CONNECTION AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THIS DRAWING TO RENDER FIRE ALARM SYSTEM COMPLETE AND OPERATIVE.
5. ELECTRICAL CONTRACTOR SHALL HIRE MANUFACTURER'S REPRESENTATIVE TO FULLY DEMONSTRATE SYSTEM FUNCTION, OPERATION AND MAINTENANCE OF FIRE ALARM SYSTEM TO OWNER.
6. HVAC CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS IN DUCTS. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, RELAYS AND MISCELLANEOUS EQUIPMENT ASSOCIATED WITH HVAC AIR HANDLER UNIT SHUTDOWN FROM FIRE ALARM PANEL.
8. FIRE ALARM CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PREPARED BY PERSONS WHOM ARE TRAINED AND CERTIFIED BY MANUFACTURER IN FIRE-ALARM SYSTEM DESIGN, NICET-CERTIFIED FIRE-ALARM TECHNICIAN (LEVEL III MINIMUM), OR LICENSED/CERTIFIED BY AUTHORITIES HAVING JURISDICTION. SUBMITTALS SHALL COMPLY WITH RECOMMENDATIONS IN "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72 AND SHALL SHOW THE FOLLOWING:
   - 8.1. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED ON PLANS.
   - 8.2. VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS.
   - 8.3. BACKUP BATTERY CAPACITY CALCULATIONS.
   - 8.4. SINGLE-LINE CONNECTION DIAGRAM.
   - 8.5. FLOOR PLANS TO INDICATE FINAL OUTLET LOCATIONS SHOWING ADDRESS OF EACH ADDRESSABLE DEVICE. SHOW SIZE AND ROUTE OF CABLE AND CONDUITS.
9. FIRE ALARM CONTRACTOR SHALL PROVIDE OWNER WITH ALL OPERATION AND MAINTENANCE DATA FOR FIRE ALARM SYSTEM.
   - 9.1. PROVIDE OPERATION AND MAINTENANCE MANUALS.
   - 9.2. PROVIDE 'RECORD OF COMPLETION' DOCUMENTS.
   - 9.3. PROVIDE 'MAINTENANCE, INSPECTION, AND TESTING RECORDS'
   - 9.4. PROVIDE COPY OF SITE-SPECIFIC SOFTWARE, SOFTWARE OPERATING AND UPGRADE MANUALS, SOFTWARE BACKUP, AND DEVICE ADDRESS LIST.
10. FIRE ALARM CONTROL PANEL SHALL BE FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, POWER-LIMITED DESIGN, COMPLY WITH UL 864, AND LISTED AND LABELED BY AN NRTL. PANEL SHALL INCLUDE:
    - 10.1. REAL-TIME CLOCK FOR TIME ANNOTATION OF EVENTS ON THE EVENT RECORDER AND PRINTER.
    - 10.2. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE
    - 10.3. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY, AND CONTROL COMMANDS.
    - 10.4. 24Vdc PRIMARY POWER OBTAINED THROUGH 120V POWER SUPPLY MODULE. ALARM CURRENT DRAW OF ENTIRE FIRE-ALARM SYSTEM SHALL NOT EXCEED 80 PERCENT OF THE POWER SUPPLY MODULE RATING.
    - 10.5. SECONDARY POWER THROUGH 24Vdc SUPPLY SYSTEM WITH BATTERIES, AUTOMATIC BATTERY CHARGER, AND AUTOMATIC TRANSFER SWITCH.

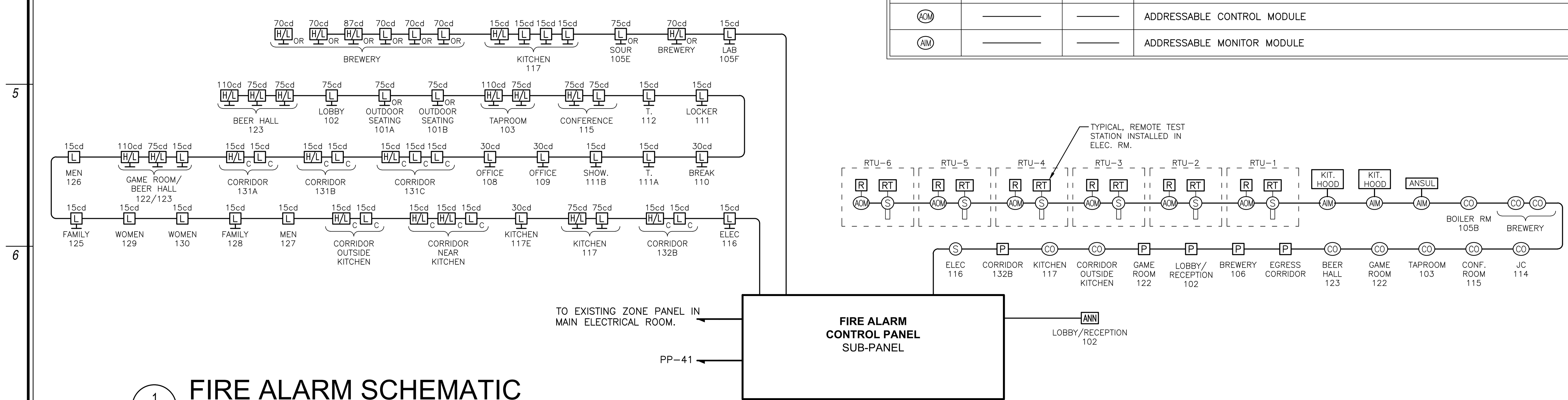
FIRE ALARM EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
ANN	——	——	WALL MOUNTED REMOTE FIRE ALARM ANNUNCIATOR WITH LCD DISPLAY AND COMMON CONTROLS, COLOR: RED.
P	——	——	DOUBLE ACTION ADDRESSABLE MANUAL PULL STATION
P OR	——	——	DOUBLE ACTION ADDRESSABLE MANUAL PULL STATION, WITH WEATHERSTOPPER COVER, (2) GASKETS, SPACER, AND CONDUIT GASKET.
S	——	——	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WITH 4-INCH MOUNTING BASE AND TRIM SKIRT
CO	——	——	ADDRESSABLE CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. UPON ACTIVATION, DETECTOR SHALL INDICATE A SYSTEM SUPERVISORY SIGNAL AND ACTIVATE THE SOUNDER BASE ALARM. TONE GENERATOR SHALL BE REQUIRED TO PRODUCE APPROPRIATE CO TONE PATTERN.
L	——	——	COMPACT WALL MOUNTED FIRE ALARM STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD SELECTABLE OUTPUT OF 15, 30, 75 CANDELAS.
L OR	——	——	OUTDOOR RATED WALL MOUNTED FIRE ALARM STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD SELECTABLE OUTPUT OF 15, & 75 CANDELAS.
L C	——	——	CEILING MOUNTED FIRE ALARM STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD SELECTABLE OUTPUT OF 15, 30, 75 & 115 CANDELAS.
H/L	——	——	COMPACT WALL MOUNTED FIRE ALARM HORN/STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD SELECTABLE OUTPUT OF 15, 30, 75 CANDELAS.
H/L OR	——	——	OUTDOOR RATED WALL MOUNTED FIRE ALARM HORN/STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD SELECTABLE OUTPUT OF 15, 29, 70, & 87 CANDELAS. PROVIDE AND INSTALL WITH RED SURFACE SKIRT, FULL BODY MOUNTING GASKET, AND SURFACE MOUNT OUTDOOR RATED BOX.
H/L C	——	——	CEILING MOUNTED FIRE ALARM HORN/STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD SELECTABLE OUTPUT OF 15, 30, 75 & 115 CANDELAS.
R	——	——	FAN SHUTDOWN RELAY
S (duct)	——	——	ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR. INSTALLED IN RETURN DUCTWORK OF INDICATED SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR MEASUREMENT OF DUCTWORK TO DETERMINE SAMPLING TUBE SIZE. PROVIDE DETECTOR IN WATERTIGHT ENCLOSURE WHERE DEVICE IS LOCATED IN WET LOCATION.
AOM	——	——	ADDRESSABLE CONTROL MODULE
AIM	——	——	ADDRESSABLE MONITOR MODULE



2 E6.01 FIRE ALARM MOUNTING REFERENCE (PER NFPA 72)

NOT TO SCALE

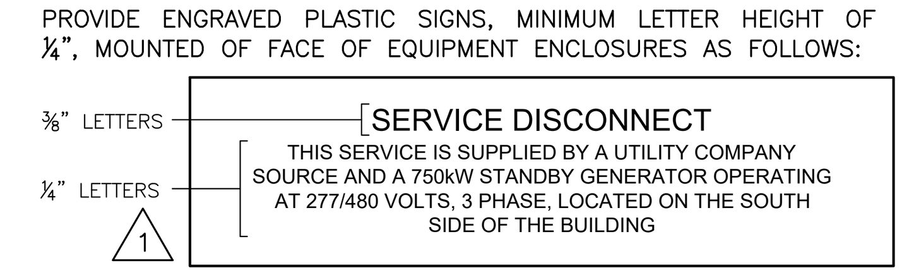


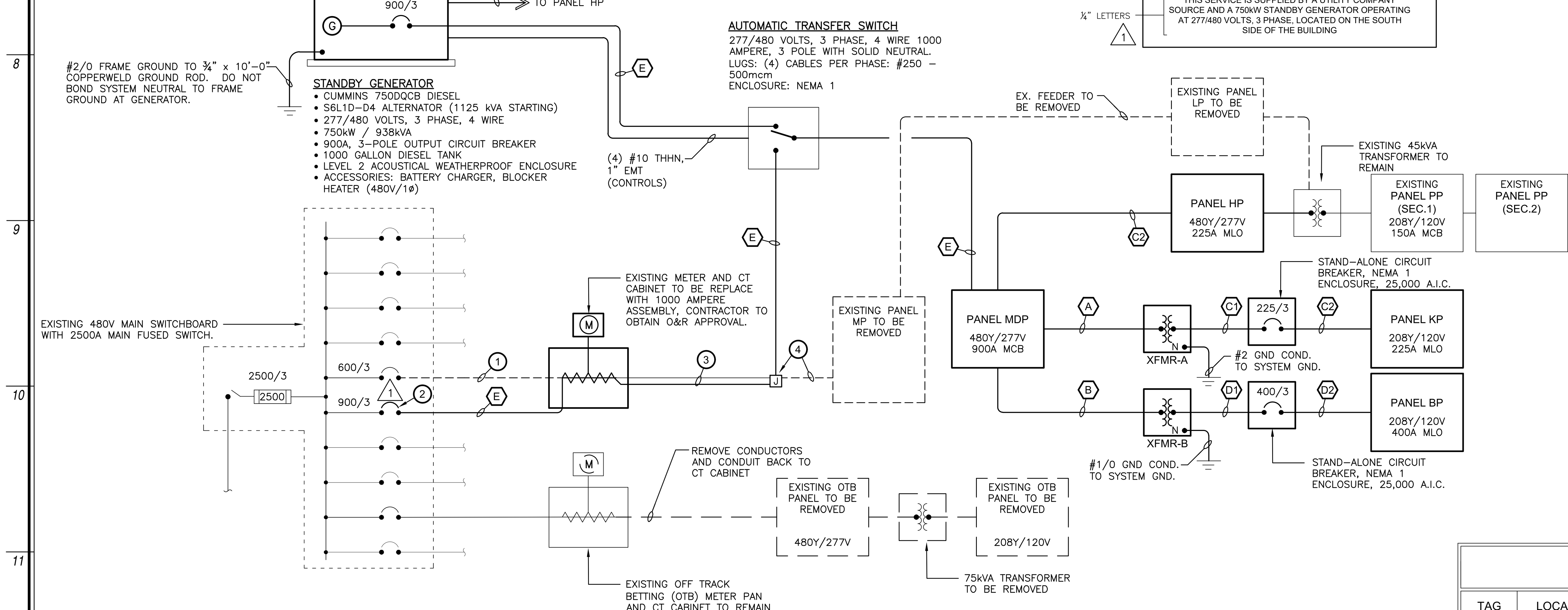
1 E6.01 FIRE ALARM SCHEMATIC

NOT TO SCALE

SIGNAGE

PROVIDE ENGRAVED PLASTIC SIGNS, MINIMUM LETTER HEIGHT OF ¼", MOUNTED OF FACE OF EQUIPMENT ENCLOSURES AS FOLLOWS:





4 E6.01 ELECTRICAL SCHEMATIC

NOT TO SCALE

GENERAL ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE TYPEWRITTEN SCHEDULES OF ALL CIRCUITRY IN ALL PANELS. SCHEDULES SHALL MATCH THE LOADS SHOWN IN THE PROJECT PANEL SCHEDULE INCLUDED WITH THESE DRAWINGS. ALL SPARE PANEL SPACES SHALL BE FULLY PROTECTED WITH METAL BLANKS.
2. ELECTRICAL DEVICES MATERIALS AND PACKAGED EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UNDERWRITERS LABORATORIES INC. (UL), FOR THE INTENDED USE, AND SHALL BEAR ITS LABEL. NOTE THAT NRTL APPROVAL OF INDIVIDUAL COMPONENTS OF PACKAGED EQUIPMENT DOES NOT CONSTITUTE APPROVAL OF THE ENTIRE PACKAGE.
3. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 2017 EDITION (NFPA 70), AND THE BUILDING CODE OF NEW YORK STATE.
4. ELECTRICAL CONTRACTOR SHALL OBTAIN, PAY FOR AND COMPLY WITH ALL REQUIRED PERMITS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO OWNER PRIOR TO COMPLETION OF PROJECT.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS, NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIVE, AND IN COMPLIANCE WITH APPLICABLE CODES.
6. ALL WIRING SHALL BE COPPER CONDUCTOR, MINIMUM SIZE #12 AWG.
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT AND NOTE CONDITIONS AND AREAS WHERE WORK WILL OCCUR IN FIELD.
8. ELECTRICAL CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS WITH AN INTUMESCENT FIRE STOP MATERIAL TO MAINTAIN FIRE AND SMOKE RATINGS.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AND MEET ALL REQUIREMENTS OF SERVING POWER UTILITY COMPANY.
10. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT CONNECTIONS, WIRING DEVICES AND LIGHTING WITH ARCHITECT PRIOR TO INSTALLATION.
11. ELECTRICAL CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCING INSTALLATION.
12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND PAINTING ASSOCIATED WITH ELECTRICAL WORK.
13. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR AGREES TO REPLACE ANY DEFECTIVE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER FOR THE DURATION OF THE GUARANTEE PERIOD.
14. MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTER LINE OF DEVICES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON DRAWINGS:
    CONVENIENCE OUTLETS: 18"
    LIGHT SWITCHES: 48"
    COMMUNICATIONS OUTLETS: 18"
    FIRE ALARM PULL STATIONS: 48"
    FIRE ALARM HORNS AND STROBES: 80"

SCHEMATIC KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. REMOVE (2) EXISTING FEEDER CONDUITS WITH 350mcm CABLE BETWEEN EXISTING 600A CIRCUIT BREAKER AND 800A CT CABINET.
2. PROVIDE AND INSTALL 1200 AMPERE, 3-POLE CIRCUIT BREAKER (GE SKLA36AT1200) WITH 900A TRIP (SRPK1200A900) IN EXISTING MAIN SWITCHBOARD AND EXTEND NEW FEEDER TO CT CABINET AS SHOWN. CONTRACTOR TO VERIFY CIRCUIT BREAKER IN FIELD. CIRCUIT BREAKER SHALL BE LISTED FOR USE WITH EXISTING SWITCHBOARD AND MATCH A.I.C. RATING OF EXISTING CIRCUIT BREAKERS. PROVIDE SIGNAGE AT SERVICE DISCONNECT AS INDICATED.
3. EXTEND (1) SET OF (4) 350mcm THHN, #2/0 GROUND IN 3" EMT PARALLEL TO (2) EXISTING SETS BETWEEN CT CABINET AND AUTOMATIC TRANSFER SWITCH.
4. DISCONNECT AND REMOVE EXISTING PANEL MP. INSTALL METAL JUNCTION BOX TO EXISTING AND NEW 3" CONDUITS. MODIFY CONDUITS AS NECESSARY. SPLICE (2) EXISTING SETS OF 350mcm THHN, #1 GROUND, IN BOX AND EXTEND IN (2) 3" EMT TO NEW AUTOMATIC TRANSFER SWITCH. NEW SET OF 350mcm, #2/0 GROUND SHALL PASS THROUGH BOX WITHOUT SPLICE AND EXTEND IN 3" CONDUIT TO ATS. PROVIDE AND INSTALL GROUNDING BUSHING ON ENDS OF (3) CONDUITS IN ATS AND CT CABINET AND EXTEND #2/0 GROUNDING CONDUCTORS TO CONNECT CONDUIT TO EQUIPMENT GROUND.

WIRE & CONDUIT SCHEDULE

TAG	FEEDER SIZE	WIRING AND CONDUIT	DESCRIPTION
A	90A, 3-PHASE	(3) #4 THHN, #8 GROUND, 1¼" EMT	TRANSITION FROM EMT TO LFMC FOR CONNECTION TO TRANSFORMER
B	150A, 3-PHASE	(3) #1/0 THHN, #6 GROUND, 2" EMT	TRANSITION FROM EMT TO LFMC FOR CONNECTION TO TRANSFORMER
C1	230A, 3-PHASE	(4) #4/0 THHN, #4 GROUND, 2½" LFMC	10'-0" LENGTH MAXIMUM
C2	230A, 3-PHASE	(4) #4/0 THHN, #4 GROUND, 2½" EMT	–
D1	400A, 3-PHASE	(4) #500mcm THHN, #3 GROUND, 3½" LFMC	10'-0" LENGTH MAXIMUM
D2	400A, 3-PHASE	(4) #500mcm THHN, #3 GROUND, 3½" EMT	–
E	930A, 3-PHASE	(3) SETS: (4) #350mcm THHN, #2/0 GROUND, 3" EMT	–

DRY-TYPE TRANSFORMER SCHEDULE

TAG	LOCATION	kVA RATING	PRIMARY VOLTAGE	SECONDARY VOLTAGE	ENCLOSURE	SUPPLY FROM	SUPPLY TO	ENCLOSURE DIMENSIONS	NOTES
XFMR-A	ELEC. 116	75kVA	480V DELTA	208Y/120V	NEMA 2	PANEL MP	PANEL KP	30½"Wx43"Hx23"D	EATON DOE 2016 ENERGY-EFFICIENT, 3-PHASE 98.6% EFFICIENCY, 150° TEMPERATURE RISE, ALUMINUM WINDINGS
XFMR-B	ELEC. 116	112.5kVA	480V DELTA	208Y/120V	NEMA 2	PANEL MP	PANEL BP	34½"Wx51"Hx31½"D	EATON DOE 2016 ENERGY-EFFICIENT, 3-PHASE 98.74% EFFICIENCY, 150° TEMPERATURE RISE, ALUMINUM WINDINGS

Date	10/15/21
Checked	SZ
Drawn	BH/DC/KC

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Revisions:
1 PERMIT SET 10/15/21

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ELECTRICAL: DETAILS

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

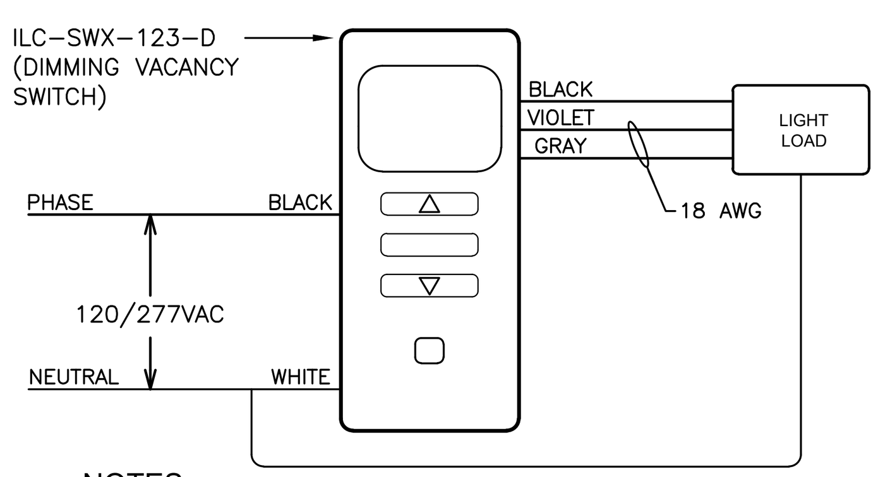
Job No. 4.1552.01

File No. 4155201 E601

E6.01

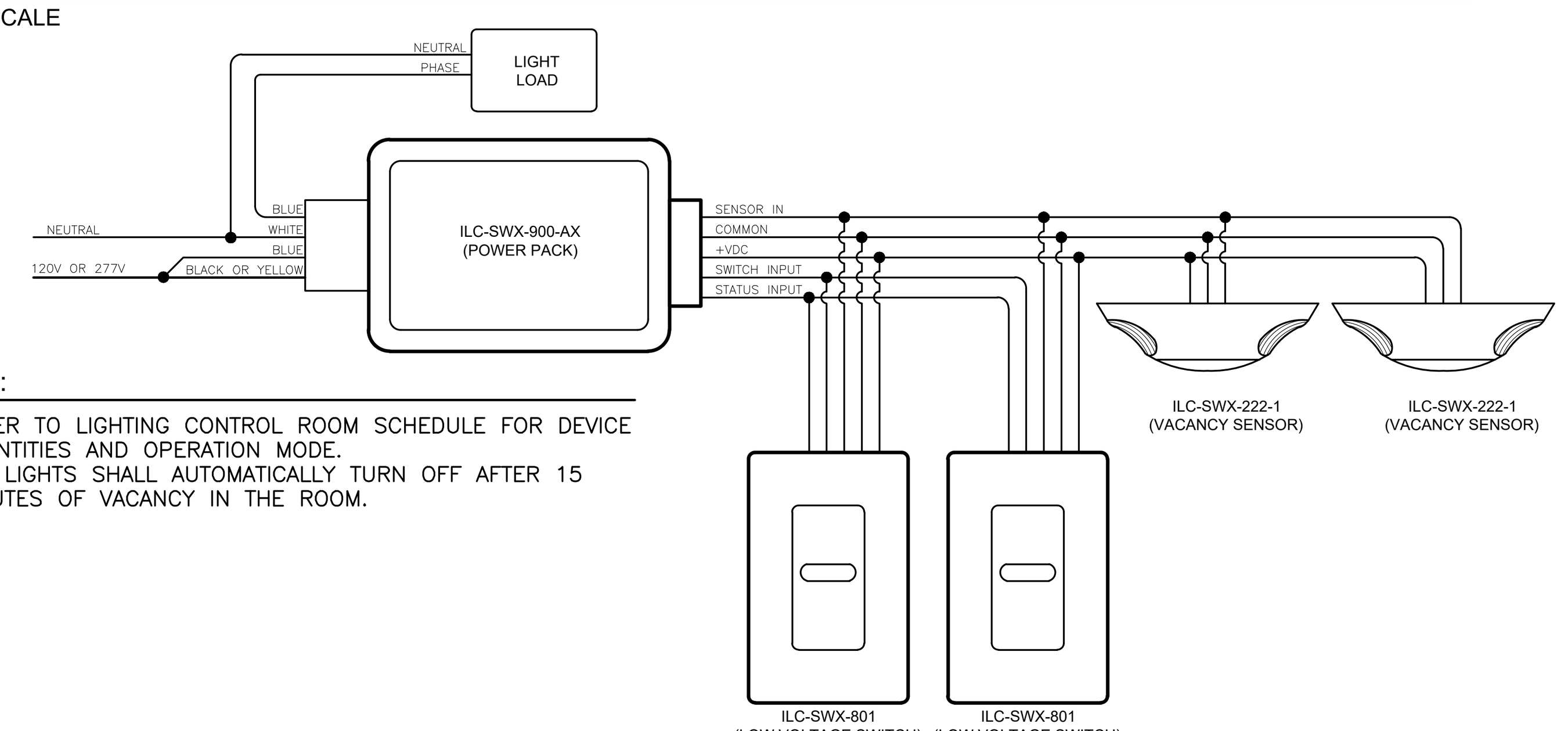
LIGHTING CONTROL ROOM SCHEDULE

TAG	SWITCH	MOTION SENSOR	DAYLIGHT SENSOR	ROOM CONTROLLER	OPERATION MODE	DESCRIPTION
1	HUBBELL 1221	NA	NA	NA	MANUAL ON/ MANAUL OFF	SINGLE POLE TOGGLE SWITCH, INDUSTRIAL GRADE, 20A, 120/277V
2	(2) HUBBELL 1223	NA	NA	NA	MANUAL ON/ MANAUL OFF	(2) THREE–WAY TOGGLE SWITCHES, INDUSTRIAL GRADE, 20A, 120/277V
3	INTELLIGENT LC ILC–SWX–121	NA	NA	NA	AUTOMATIC ON/ AUTOMATIC OFF	DUAL TECHNOLOGY LINE VOLTAGE WALL SWITCH OCCUPANCY SENSOR, 120/277V.
4	INTELLIGENT LC ILC–SWX–123	NA	NA	NA	MANUAL ON/ AUTOMATIC OFF	DUAL TECHNOLOGY LINE VOLTAGE WALL SWITCH VACANCY SENSOR, 120/277V.
5	INTELLIGENT LC ILC–SWX–123–D	NA	NA	NA	MANUAL ON/ AUTOMATIC OFF	DUAL TECHNOLOGY LINE VOLTAGE WALL SWITCH VACANCY SENSOR W/ 0–10V DIMMING, 120/277V. REFER TO DETAIL 1/E6.02.
6	INTELLIGENT LC ILC–SWX–801	INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	MANUAL ON/ AUTOMATIC OFF	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR VACANCY MODE) AND (1) MOMENTARY CONTACT SWITCH, 120/277V. REFER TO DETAIL 2/E6.02.
7	INTELLIGENT LC ILC–SWX–801	INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	AUTOMATIC ON/ AUTOMATIC OFF	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR OCCUPANCY MODE) AND (1) MOMENTARY CONTACT SWITCH, 120/277V. REFER TO DETAIL 2/E6.02.
8	(2) INTELLIGENT LC ILC–SWX–801	INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	MANUAL ON/ AUTOMATIC OFF	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR VACANCY MODE) AND (2) MOMENTARY CONTACT SWITCHES, 120/277V. REFER TO DETAIL 2/E6.02.
9	(2) INTELLIGENT LC ILC–SWX–801	INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	AUTOMATIC ON/ AUTOMATIC OFF	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR OCCUPANCY MODE) AND (2) MOMENTARY CONTACT SWITCHES, 120/277V. REFER TO DETAIL 2/E6.02.
10	(2) INTELLIGENT LC ILC–SWX–801	(2) INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	AUTOMATIC ON/ AUTOMATIC OFF	(2) LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR OCCUPANCY MODE) AND (2) MOMENTARY CONTACT SWITCHES, 120/277V. REFER TO DETAIL 2/E6.02.
11	(2) INTELLIGENT LC ILC–SWX–801	(3) INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	AUTOMATIC ON/ AUTOMATIC OFF	(3) LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR OCCUPANCY MODE) AND (2) MOMENTARY CONTACT SWITCHES, 120/277V. REFER TO DETAIL 2/E6.02.
12	INTELLIGENT LC ILC–SWX–801 & ILC–SWX–803	INTELLIGENT LC ILC–SWX–222–1	NA	INTELLIGENT LC ILC–SWX–900–AX	MANUAL ON/ AUTOMATIC OFF	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR POWERED BY LINE VOLTAGE POWER PACK (SET FOR VACANCY MODE) AND (1) MOMENTARY CONTACT SWITCH, (1) DIMMING SWITCH, 120/277V. REFER TO DETAIL X/E7.0X.
13	(2) HUBBELL 1223 & (1) 1224	NA	NA	NA	MANUAL ON/ MANAUL OFF	(2) THREE–WAY & (1) FOUR–WAY TOGGLE SWITCHES, INDUSTRIAL GRADE, 20A, 120/277V



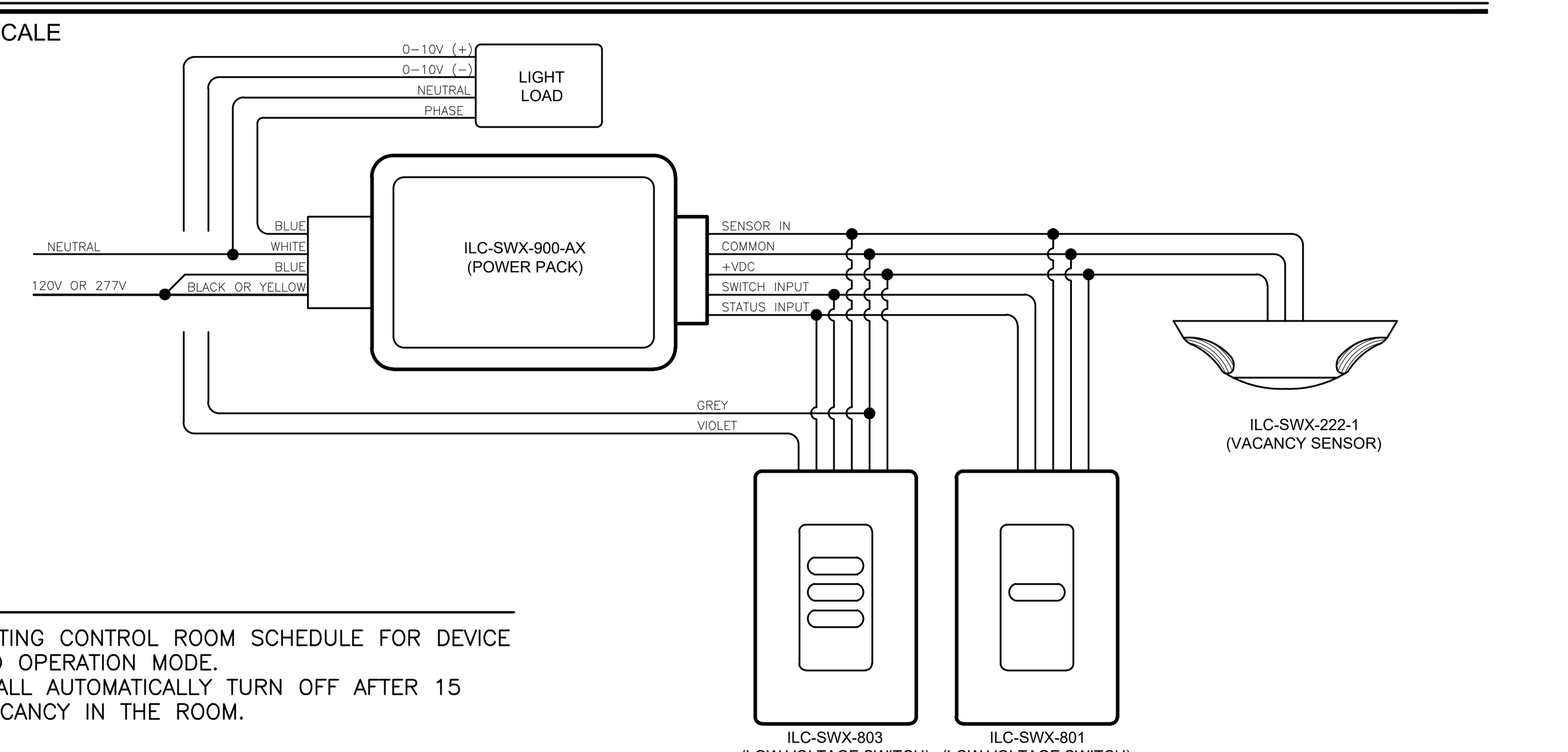
NOTES:
1. ALL LIGHTS SHALL TURN OFF AFTER 15 MINUTES OF VACANCY IN THE ROOM.

1/E6.02 DIMMING VACANCY SENSOR SWITCH SCHEMATIC
NOT TO SCALE



NOTES:
1. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE QUANTITIES AND OPERATION MODE.
2. ALL LIGHTS SHALL AUTOMATICALLY TURN OFF AFTER 15 MINUTES OF VACANCY IN THE ROOM.

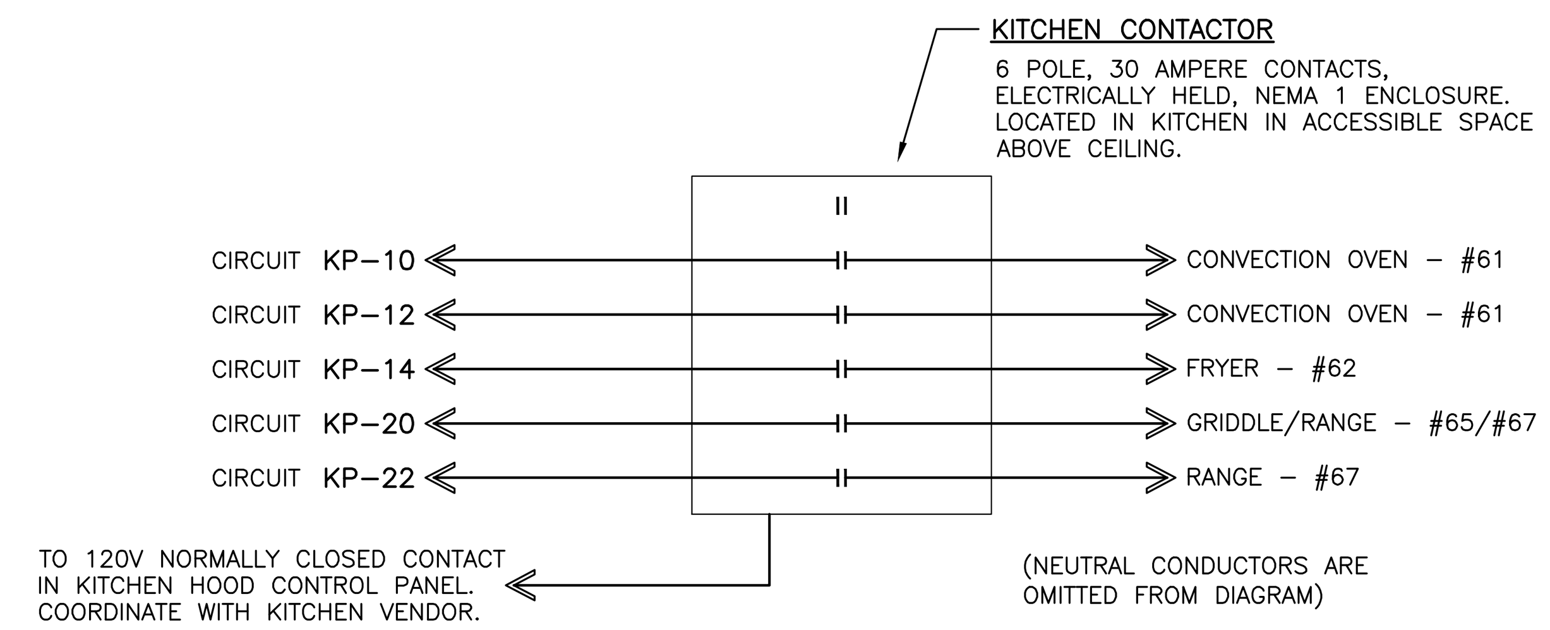
2/E6.02 TYPICAL MOTION SENSOR W/ 1-BUTTON SWITCH SCHEMATIC
NOT TO SCALE



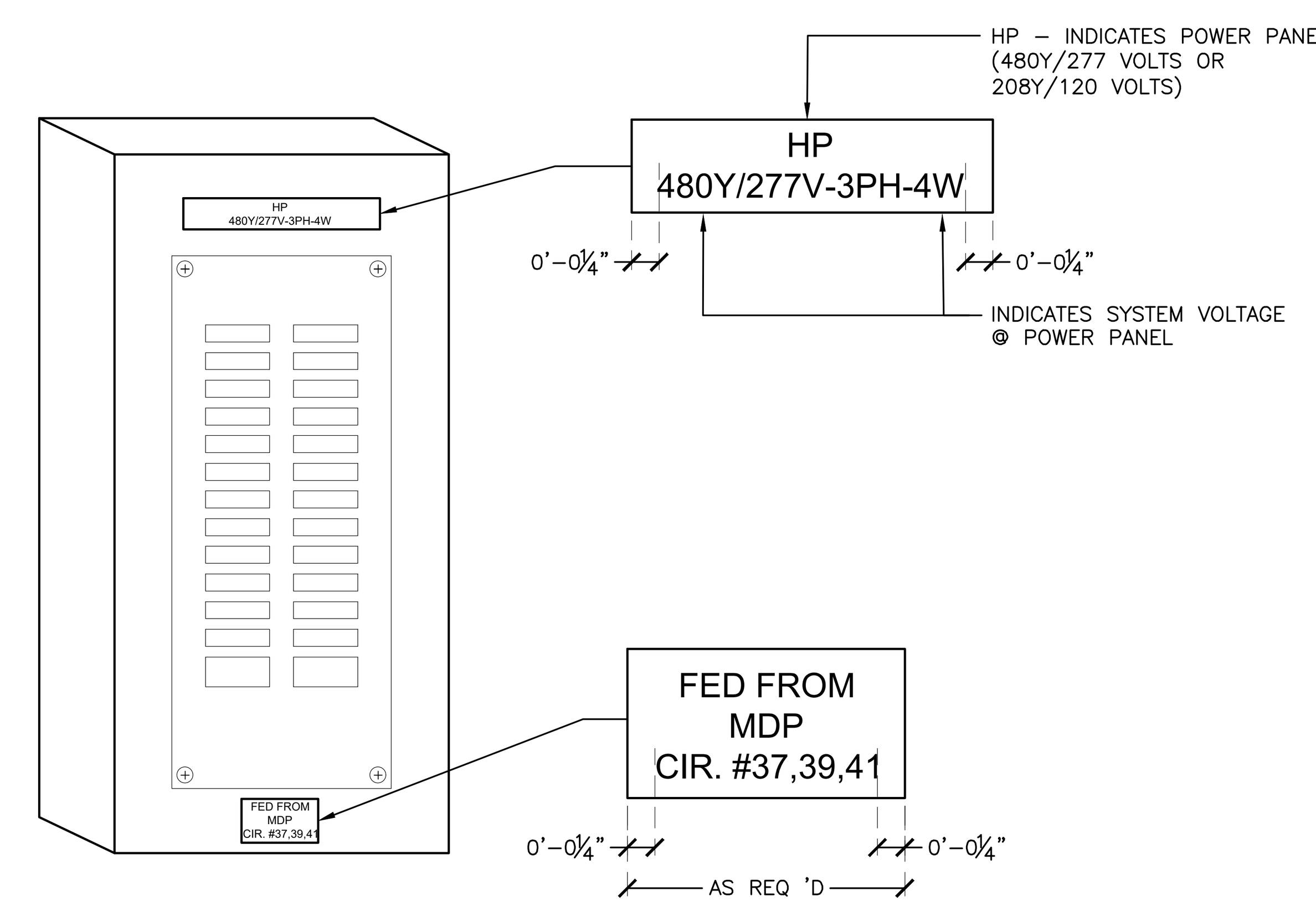
NOTES:
1. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE QUANTITIES AND OPERATION MODE.
2. ALL LIGHTS SHALL AUTOMATICALLY TURN OFF AFTER 15 MINUTES OF VACANCY IN THE ROOM.

3/E6.02 TYPICAL MOTION SENSOR W/ 1-BUTTON & DIMMING SWITCH SCHEMATIC
NOT TO SCALE

LIGHTING CONTROL NOTES:
1. PROVIDE ALL COVER PLATES AND ACCESSORIES AS NECESSARY. DEVICE AND COVER PLATE COLOR SELECTION SHALL BE BY ARCHITECT/OWNER.
2. ALL LOW–VOLTAGE DEVICES THAT ARE TO BE RECESSED WALL/CEILING MOUNTED SHALL BE INSTALLED IN LOW–VOLTAGE PVC ELECTRICAL BOXES WITH ALL WIRE CONNECTIONS MADE INSIDE BOX.
3. ALL LINE VOLTAGE DEVICES SHALL BE INSTALLED IN METAL SWITCH BOXES.
4. ALL LOW VOLTAGE DEVICES THAT ARE TO BE SURFACE MOUNTED SHALL BE INSTALLED IN METAL JUNCTION BOX WITH ALL WIRE CONNECTIONS MADE INSIDE BOX.
5. POWER PACKS AND CONTROLLERS SHALL BE MOUNTED TO 4x4 METAL JUNCTION BOX WITH ALL WIRE CONNECTIONS MADE INSIDE BOX. SHALL BE MOUNTED ABOVE CEILING WHERE APPLICABLE.
6. ALL LOW VOLTAGE WIRING SHALL BE ISOLATED FROM LINE VOLTAGE CONDUCTORS.
7. ALL 'RJ45 ADAPTOR' CONNECTIONS SHALL BE MADE INSIDE JUNCTION BOX.
8. NO CAT5 OR CAT 6 CABLE SHALL EXTEND MORE THAN 328 FEET IN TOTAL LINEAR LENGTH.
9. GROUND CONDUCTORS OMITTED FROM SCHEMATICS.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH INTERCONNECTION DIAGRAMS SHOWING WIRING FOR EACH SYSTEM DETAILED. SCHEMATICS SHALL BE PRODUCED, REVIEWED, AND APPROVED FOR PROPER FUNCTIONALITY BY MANUFACTURER REPRESENTATIVE.
11. CONTRACTOR SHALL PERFORM ALL REQUIRED LIGHTING CONTROL PROGRAMMING AND COORDINATE WITH OWNER FOR FINAL APPROVAL.
12. CONTRACTOR SHALL PROVIDE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM.

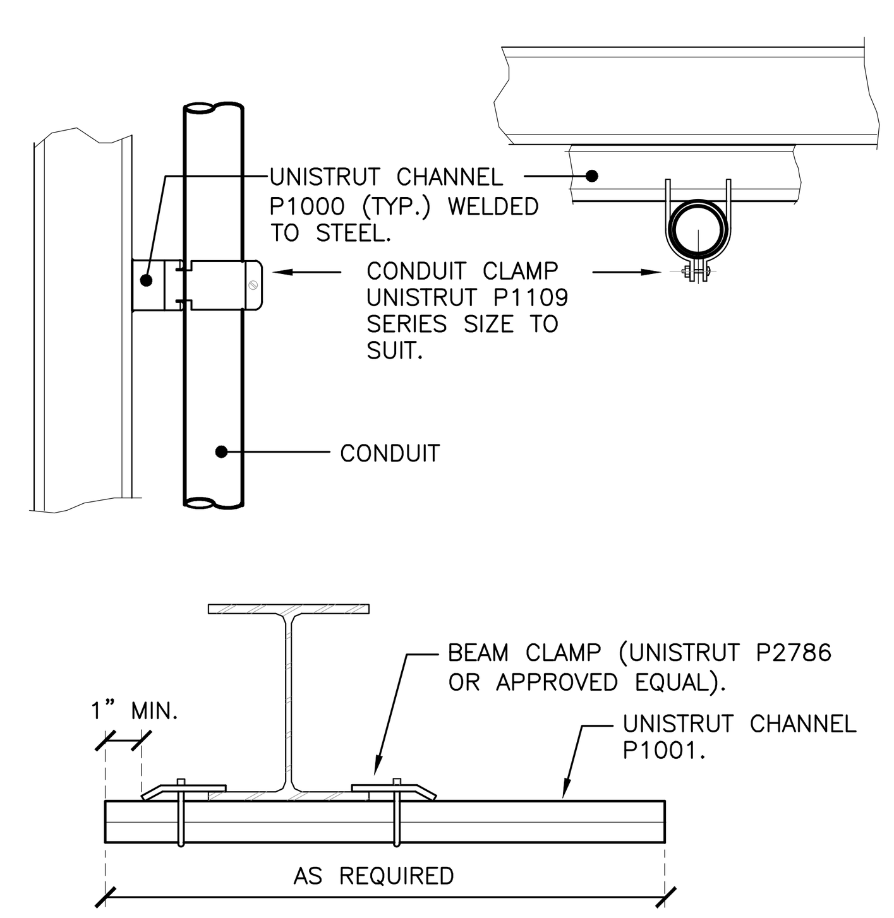


4/E6.02 KITCHEN CONTACTOR DETAIL
NOT TO SCALE

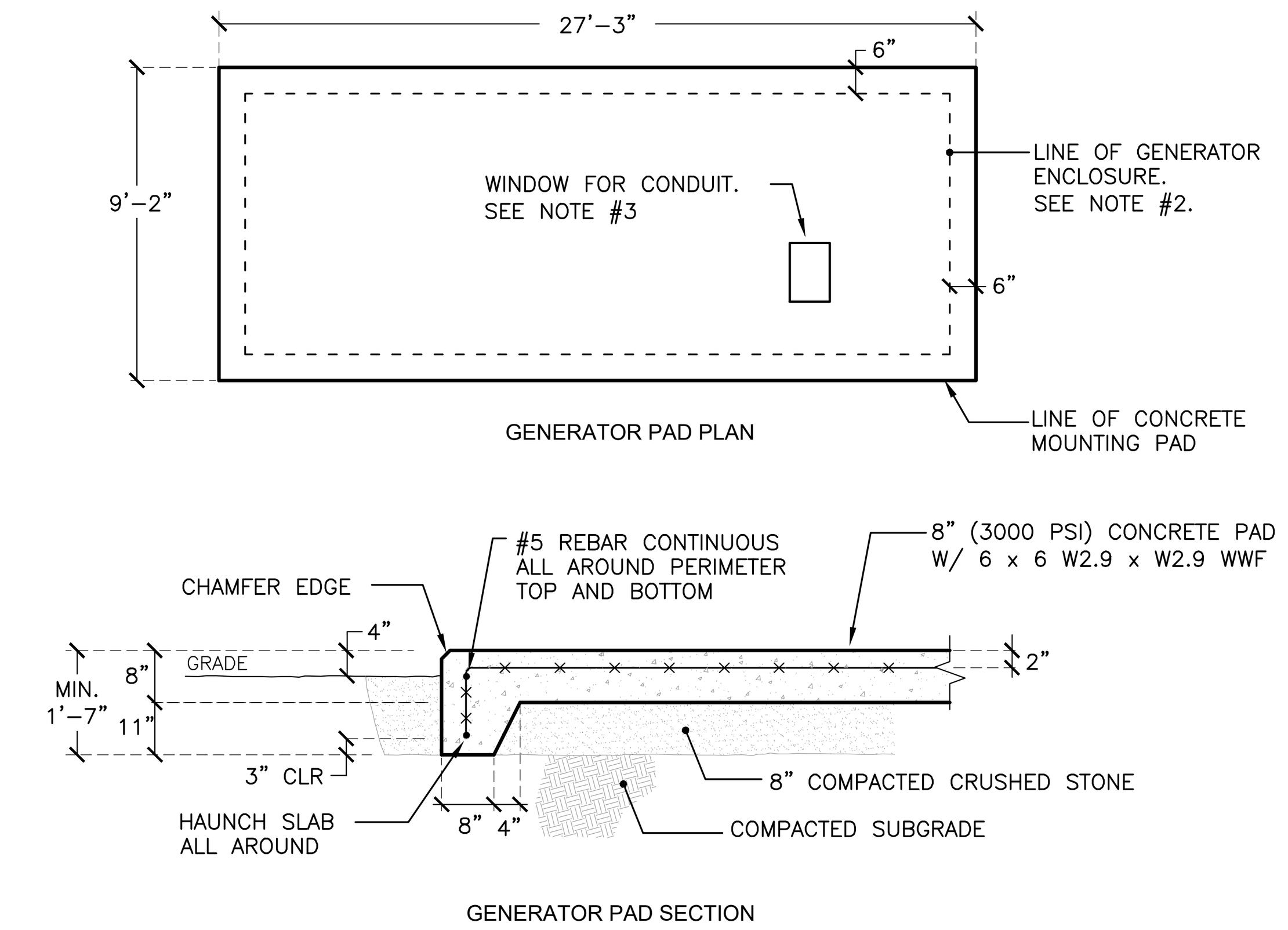


DETAIL NOTES:
1. LETTERS SHALL BE UPPERCASE, CONDENSED BLOCK TYPE
2. NAMEPLATES SHALL BE ENGRAVED LAMICOID
3. FASTEN TO NEMA 1, 9, & 12 ENCLOSURE WITH DOUBLE–FACED URETHANE FOAM TAPE 3M #70–0024–8019–5.
4. FASTEN TO NEMA 3R & 4 ENCLOSURE WITH SILICON ADHESIVE.

5/E6.02 TYPICAL POWER PANEL IDENTIFICAITON DETAIL
NOT TO SCALE

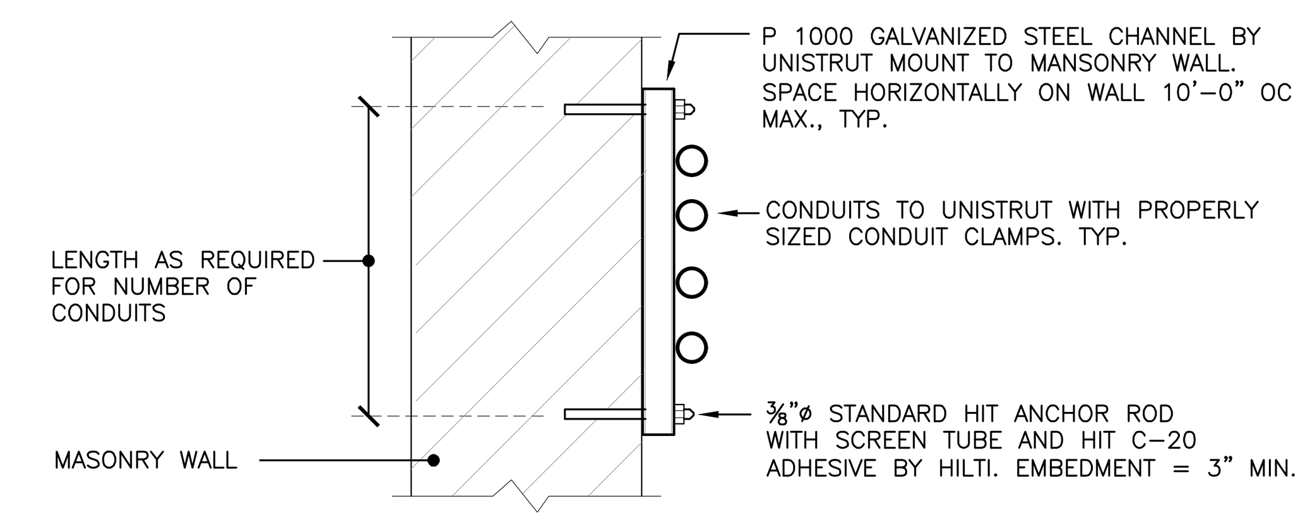


6/E6.02 CONDUIT SUPPORTED FROM STRUCTURAL STEEL
NOT TO SCALE

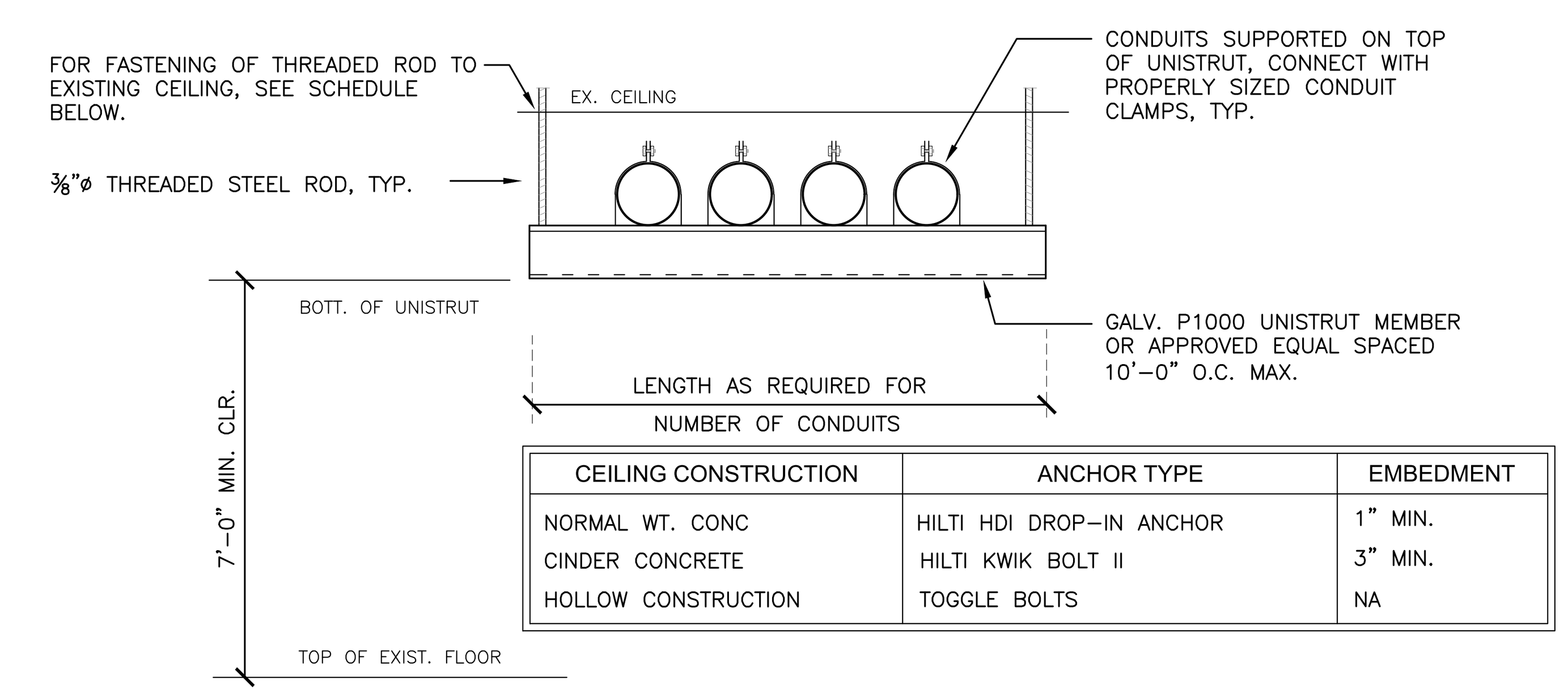


GENERATOR PAD NOTES:
1. CONSTRUCT CONCRETE PAD LEVEL. INCREASE DEPTH OF HAUNCH AS REQUIRED TO ACCOMMODATE SLOPING GRADE. TOP OF PAD SHALL BE 4" ABOVE GRADE ON UPHILL SIDE.
2. CONCRETE PAD SHALL EXTEND 6" BEYOND GENERATOR ENCLOSURE ON ALL SIDES. ADJUSTMENTS IN PAD SIZE SHALL BE MADE TO ACCOMMODATE APPROVED GENERATOR.
3. PROVIDE WINDOWS IN PAD FOR POWER AND CONTROL CONDUITS IN ACCORDANCE WITH GENERATOR MANUFACTURER'S INSTALLATION DRAWINGS.

7/E6.02 GENERATOR PAD DETAIL
NOT TO SCALE

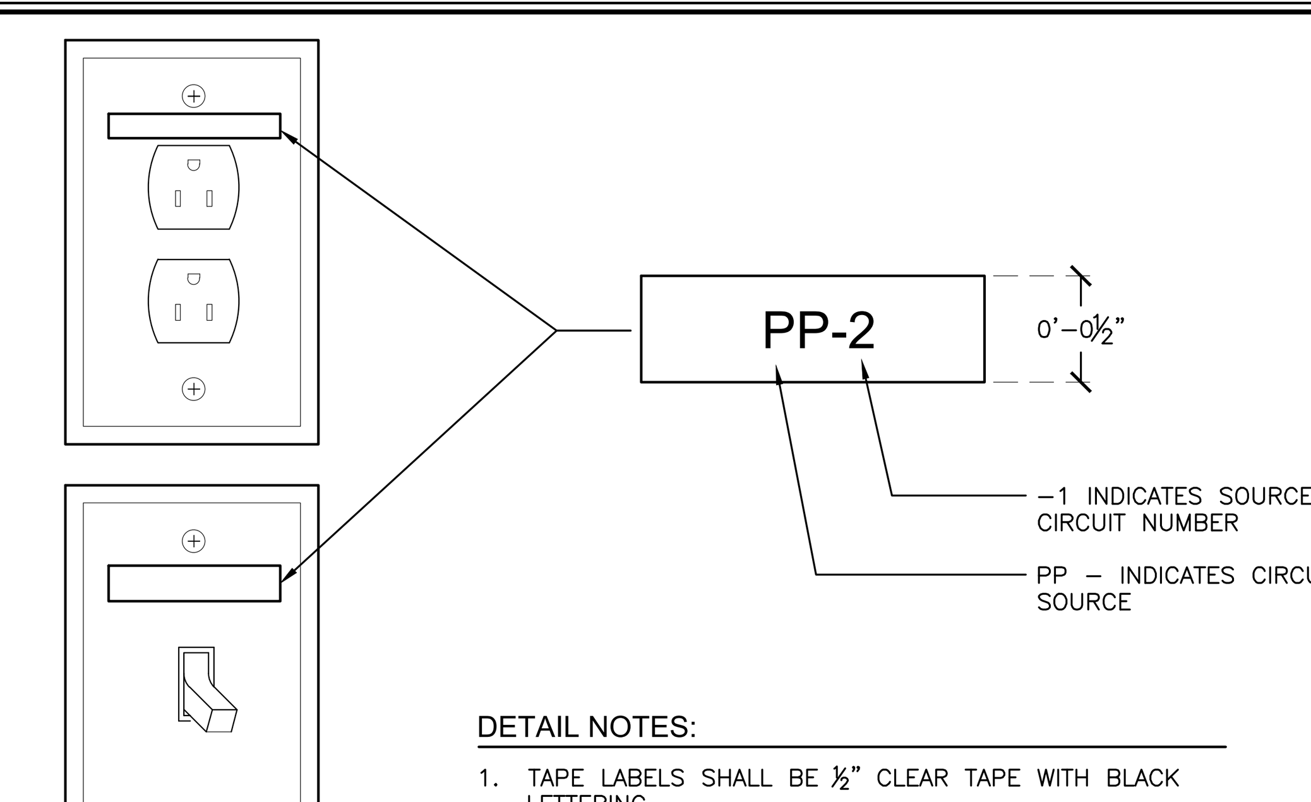


8/E6.02 TYPICAL CONDUIT SUPPORT ON MASONRY
NOT TO SCALE



CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP–IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

9/E6.02 TRAPEZE SUPPORT DETAIL
NOT TO SCALE



DETAIL NOTES:
1. TAPE LABELS SHALL BE ½" CLEAR TAPE WITH BLACK LETTERING.

10/E6.02 TYPICAL RECEPTACLE/LIGHT SWITCH IDENTIFICATION DETAIL
NOT TO SCALE

Date	10/15/21
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Revisions:
1 PERMIT SET 10/15/21

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ELECTRICAL: DETAILS
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 E602

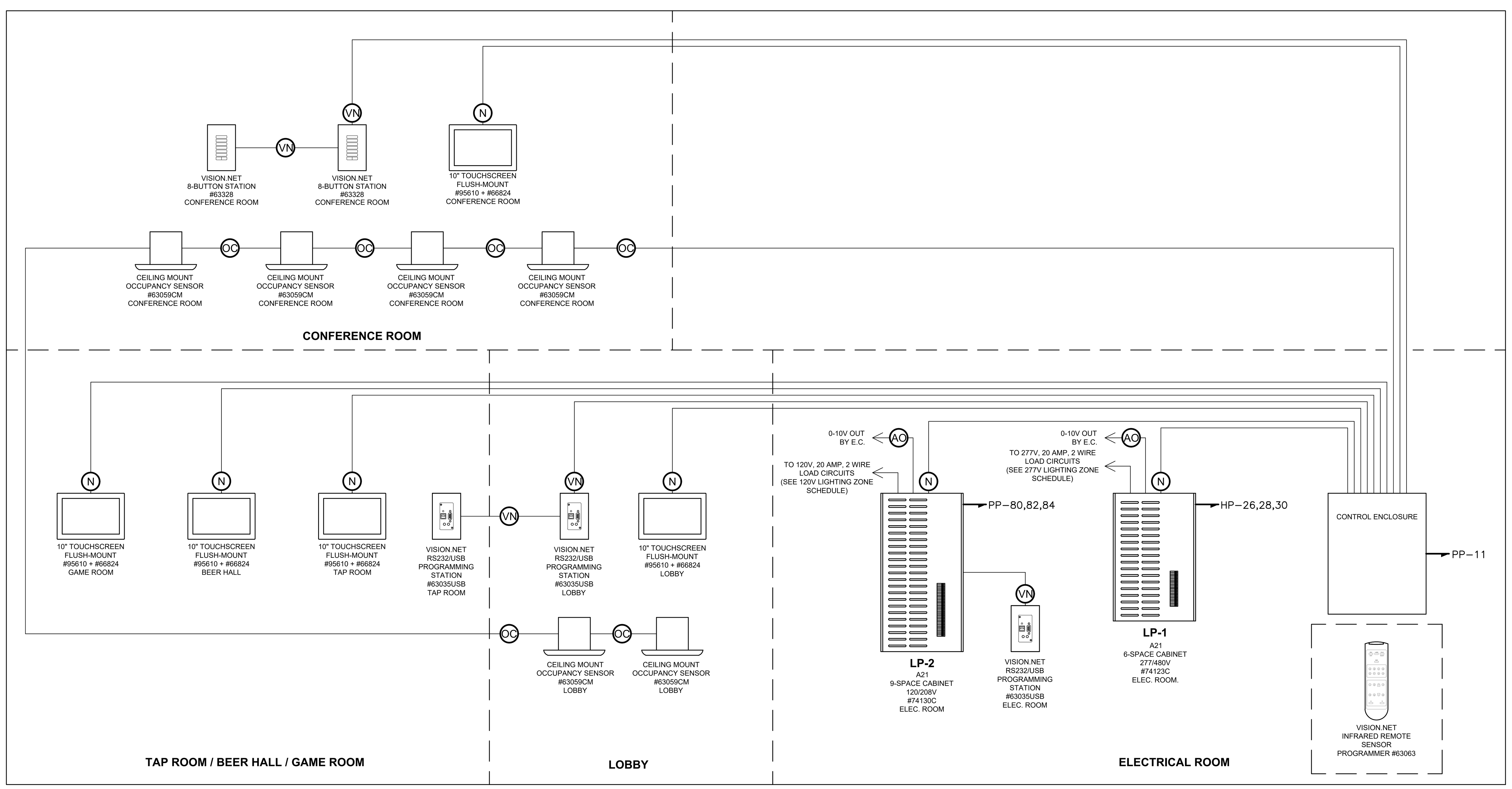
E6.02

PANEL LP-1 - 277V LIGHTING ZONE SCHEDULE

ZONE/RELAY #	FIXTURE DESIGNATIONS	APPROX. LOAD	LOCATION	DIMMING TYPE	POWER CONDUCTORS
H1	TYPE H	490W	GAME ROOM 122	0–10V	(2) #12 THHN, #12 GND, ¾" EMT
H2	TYPE H	630W	BEER HALL 123	0–10V	(6) #12 THHN, #12 GND, ¾" EMT
H3	TYPE P11	126W	BEER HALL 123	0–10V	
H4	TYPE H	560W	TAPROOM 103	0–10V	
H5	TYPE D2a	96W	LOBBY 102	0–10V	(4) #12 THHN, #12 GND, ¾" EMT
H6	TYPE W	60W	LOBBY 102	–	
H7	TYPE D1	78W	OUTDOOR 101	0–10V	(8) #12 THHN, #12 GND, ¾" EMT
H8	TYPE S5	27W	OUTDOOR 101	0–10V	
H9	TYPE S6	14W	OUTDOOR 101	0–10V	
H10	TYPE LS3	260W	OUTDOOR 101	0–10V	
H11	TYPE LS4	528W	FRONT FACADE	0–10V	(6) #10 THHN, #10 GND, 1" EMT
H12	TYPE LS4	384W	FRONT FACADE	0–10V	
H13	TYPE V	760W	FRONT FACADE	0–10V	
H14	TYPE D4	47W	CONFERENCE 115	0–10V	(2) #12 THHN, #12 GND, ¾" EMT
H15	TYPE P2 DIRECT LIGHT	225W	CONFERENCE 115	0–10V	(8) #12 THHN, #12 GND, ¾" EMT
H16	TYPE P2 INDIRECT LIGHT	225W	CONFERENCE 115	0–10V	
H17	TYPE P1 DIRECT LIGHT	168W	CONFERENCE 115	0–10V	
H18	TYPE P1 INDIRECT LIGHT	168W	CONFERENCE 115	0–10V	
	TOTAL:	4,846W			

PANEL LP-2 - 120V LIGHTING ZONE SCHEDULE

ZONE/RELAY #	FIXTURE DESIGNATIONS	APPROX. LOAD	LOCATION	DIMMING TYPE	POWER CONDUCTORS
L1	TYPE T1	150W	GAME ROOM 122	ELV	(8) #12 THHN, #12 GND, ¾" EMT
L2	TYPE LS3	133W	GAME ROOM 122	0–10V	
L3	TYPE P4	270W	GAME ROOM 122	ELV	
L4	TYPE P3	100W	GAME ROOM 122	ELV	
L5	TYPE P8a	1040W	BEER HALL 123	ELV	(8) #12 THHN, #12 GND, ¾" EMT
L6	TYPE T1	300W	BEER HALL 123	ELV	
L7	TYPE T1	100W	BEER HALL 123	ELV	
L8	TYPE T2	240W	BEER HALL 123	DMX	
L9	TYPE LS1 & T2	474W	TAPROOM 103	DMX	(8) #12 THHN, #12 GND, ¾" EMT
L10	TYPE P4	117W	TAPROOM 103	ELV	
L11	TYPE D3a	14W	TAPROOM 103	ELV	
L12	TYPE P10	250W	TAPROOM 103	0–10V	
L13	TYPE P7	44W	TAPROOM 103	ELV	(6) #12 THHN, #12 GND, ¾" EMT
L14	TYPE P9	21W	TAPROOM 103	ELV	
L15	TYPE LS2a	160W	TAPROOM 103	ELV	
L16	TYPE R	524W	BREWERY	DMX	(2) #12 THHN, #12 GND, ¾" EMT
L17	TYPE S3	128W	LOBBY 102	ELV	(6) #12 THHN, #12 GND, ¾" EMT
L18	TYPE T1	50W	LOBBY 102	ELV	
L19	TYPE S4	12W	LOBBY 102	ELV	
L20	TYPE S2	14W	OUTDOOR 101	ELV	(2) #12 THHN, #12 GND, ¾" EMT
L21	TYPE D3b	21W	CONFERENCE 115	ELV	(6) #12 THHN, #12 GND, ¾" EMT
L22	TYPE LS2b	736W	CONFERENCE 115	ELV	
L23	TYPE P6	300W	CONFERENCE 115	ELV	
	TOTAL:	5,198W			



WIRES AND CABLES BY E.C.:

(AO) (2) #16 AWG CONTROL WIRES (V+, COM): 0–10V OUT (DO NOT EXCEED 300 FT.)

(OC) (1) BELDEN #1583A CABLE – VISION.NET OCCUPANCY SENSOR (DO NOT EXCEED 500 FT.)

(N) (1) BELDEN #1583A (BLUE JACKET) CABLE: NETWORK (DO NOT EXCEED 300 FT.)

(VN) (1) BELDEN #1583A (GREEN JACKET) CABLE: VISION.NET (DO NOT EXCEED 1000 FT.)

CATEGORY 5 ETHERNET NOTES:

USE ONLY CERTIFIED CATEGORY 5 CABLE, BELDEN #1583A (BLUE JACKET RECOMMENDED). NO DAISY CHAINING, SUBSTITUTIONS, OR SPLICING ALLOWED. TOTAL LENGTH OF ANY CABLE NOT TO EXCEED 300 FT. CABLE MUST BE INSTALLED AND TERMINATED IN COMPLIANCE WITH TIA/EIA–568 STANDARDS FOR CATEGORY 5 CABLING. TERMINATIONS ARE TO BE MADE USING THE 568B COLOR CODE. ELECTRICAL CONTRACTOR TO CERTIFY ALL CATEGORY 5 CABLES AND TERMINATIONS.

CONTROL NOTES:

1. SYSTEM SHALL BE PROGRAMMED SUCH THAT (2) OCCUPANCY SENSORS IN LOBBY CONTROL ONLY D2a AND S4 FIXTURES WITHIN LOBBY. SHALL BE SET FOR OCCUPANCY MODE (AUTOMATIC ON/AUTOMATIC OFF).
2. SYSTEM SHALL BE PROGRAMMED SUCH THAT (4) OCCUPANCY SENSORS IN CONFERENCE ROOM CONTROL ALL LIGHT FIXTURES WITHIN CONFERENCE ROOM. SHALL BE SET FOR VACANCY MODE (MANUAL ON/AUTOMATIC OFF).
3. CONTRACTOR SHALL PROGRAM EACH TOUCHSCREEN DISPLAY TO THE SPECIFICATION OF THE OWNER. SHALL INCLUDE BUT NOT BE LIMITED TO INDIVIDUAL ZONE/RELAY CONTROL AND SCENE SELECTION.

NOTES:

1. ALL POWER WIRING SHALL BE EXTENDED IN EMT CONDUIT WHEN IN EXPOSED SPACES. TYPE MC CABLE SHALL BE ACCEPTABLE IN FINISHED WALL OR ABOVE CEILINGS.
2. CONTRACTOR SHALL PROVIDE ALL CONTROL PANELS, MODULES, CONTROL WIRING, ETC. AS NECESSARY TO INSTALL COMPLETE SYSTEM.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING INTERCONNECTION DIAGRAM THAT INDICATES ALL ZONES SHOWN IN LIGHTING ZONE SCHEDULES AND ALL CORRESPONDING MODULES, WIRING, ETC. REQUIRE TO INSTALL COMPLETE SYSTEM WITH PROPER DIMMING PROTOCOLS.
4. CONTRACTOR SHALL CONFIRM DIMMING PROTOCOLS WITH FIXTURE MANUFACTURER'S.
5. CONTRACTOR SHALL PROVIDE MANUFACTURER REPRESENTATIVE TO PROGRAM SYSTEM AND TOUCHSREENS TO OWNER'S SPECIFICATION AND PROVIDE TRAINING TO OWNER.
6. ALL CONTROL WIRING SHALL BE EXTENDED IN EMT CONDUIT. CONTROL WIRING SHALL BE KEPT SEPARATE FROM ALL POWER WIRING.
7. BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED.
8. SEPARATE NEUTRAL IS REQUIRED FOR EACH CIRCUIT.
9. ALL CONTROL CABLES MUST BE INSTALLED AS DEPICTED IN THE TOPOLOGY SHOWN IN THE SYSTEM RISER DRAWING. IT IS NOT PERMISSIBLE TO HAVE BRANCHING RUNS, STUB RUNS OR "WYE" CABLE TOPOLOGIES.
10. DMX CABLING UTILIZING BELDEN 1583A/1592A FOLLOWS ANSI E1.27–2: STANDARD WIRING PRACTICE FOR PERMANENTLY INSTALLED CONTROL CABLES FOR USE WITH ANSI E1.11 DMX512–A.

1 / E6.03 LIGHTING CONTROL SYSTEM SCHEMATIC

NOT TO SCALE

Date 10/15/21
Checked SZ
Drawn BH/DC/KC

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ELECTRICAL: DETAILS
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Job No. 4.1552.01
File No. 4155201 E603

E6.03

ELECTRICAL FIXTURE SCHEDULE

DESIGNATION	MANUFACTURER	CATALOG #	SOURCE	LUMENS	WATTS	COLOR TEMPERATURE	VOLTAGE	TYPE
A	LUX DYNAMICS	E-2-S-A-840-2-U10-CA-B-3/10-10Y-OC-WET	LED	12,938	78	4000K	277	1'x2' PENDANT, IP56 RATED, W/ INTEGRAL MOTION SENSOR
B1	COLUMBIA LIGHTING	CBT24-LSCS	LED	3595	28	3500K	277	2'x4' EDGE LIT FLAT PANEL WITH SWITCHABLE OUTPUT, 0-10V DIMMING
B2	COLUMBIA LIGHTING	CBT24-LSCS	LED	4951	38	3500K	277	2'x4' EDGE LIT FLAT PANEL WITH SWITCHABLE OUTPUT, 0-10V DIMMING
B3	COLUMBIA LIGHTING	CBT22-LSCS	LED	3044	24	3500K	277	2'x2' EDGE LIT FLAT PANEL WITH SWITCHABLE OUTPUT, 0-10V DIMMING, DAMP LOCATION
C1	CERTOLUX	SAF-35182x4-LED840K052LUNV	LED	5200	47	4000K	277	2'x4' TROFFER, IP65 RATED
C2	CERTOLUX	SAF-35182x2-LED840K052LUNV	LED	5200	47	4000K	277	2'x2' TROFFER, IP65 RATED
D1	PRESCOLITE	LTC-6RD-S-06L-27K-8-XW-DM1	LED	665	7.8	2700K	120-277	6"ø x14" CEILING MOUNTED CYLINDER, WET LOCATION LISTED, 0-10V DIMMING
D2a	PRESCOLITE	LTR-4RD-H-SL-10L-DM1-LTR-4RD-T-SL27K8XW	LED	1030	12	2700K	120-277	4"ø RECESSED DOWNLIGHT 0-10V DIMMING
D2b	PRESCOLITE	LTR-4RD-H-ML-20L-DM1-LTR-4RD-T-ML35K8WD	LED	2059	22.5	3500K	120-277	4"ø RECESSED DOWNLIGHT 0-10V DIMMING
D3a	KUZCO	SF15002-BK	LED	356	7	2700K	120	CEILING MOUNTED W/ (2) ADJUSTABLE CYLINDER LAMPS, ELV DIMMING
D3b	KUZCO	SF15002-BK	LED	356	7	3500K	120	CEILING MOUNTED W/ (2) ADJUSTABLE CYLINDER LAMPS, ELV DIMMING
D4	PRESCOLITE	LTR-3RD-H-SL-06L-DM1-LTR-3RD-T-SL35K8MD	LED	641	7.8	3500K	277	3"ø RECESSED DOWNLIGHT. 0-10V DIMMING
D5	KIRLIN	LSR-12483-2500L-277-D1-27K	LED	2753	35	2700K	277	12"ø x20" CEILING MOUNTED CYLINDER, WET LOCATION LISTED, 0-10V DIMMING
E	COLUMBIA LIGHTING	LXEN-4-40LW-RFA-ED-U	LED	4195	34	4000K	277	1'x4' SURFACE MOUNTED GASKETED FIBERGLASS FIXTURE
F	COLUMBIA LIGHTING	MPS4-35VWHE-C-W-ED-U-NXS	LED	3279	26.7	3500K	277	4' WALL MOUNTED W/ INTEGRAL OCCUPANCY SENSOR
G	COLUMBIA LIGHTING	MPS4-35VWHE-C-W-ED-U-CSHC	LED	3279	26.7	3500K	277	4' CHAIN HUNG
H	BEACON	SRT1-35-35K8-SQW-UNV-BLT	LED	4574	35	3500K	277	12"ø EDGE-LIT PENDANT, 0-10V DIMMING, SUSPENDED BY ¾" THREADED CONDUIT.
LS1	TEMPO ARCHITECTURAL	C3DR-FL-O-6-RGBW27LG-xx	LED	472/FT	6/FT	RGBW	120	1"x1" COLOR-CHANGING COVE LIGHT, DMX DIMMING
LS2a	TEMPO ARCHITECTURAL	pFXC-CW-O-120E8-27-WH-xx	LED	688/FT	8/FT	2700K	120	1"x2" TILTABLE COVE LIGHT, ELV DIMMING
LS2b	TEMPO ARCHITECTURAL	pFXC-CW-O-277E8-35-WH-xx	LED	688/FT	8/FT	3500K	277	1"x2" TILTABLE COVE LIGHT, ELV DIMMING
LS3	TEMPO ARCHITECTURAL	C4X-24DC-WH-0-5-27WH-xx; PWR-UNV-EM-100-Z-JB	LED	578/FT	5/FT	2700K	120-277	1"x1" IP67 RATED COVE LIGHT, REMOTE POWER SUPPLY, 0-10V DIMMING
LS4	LUMASCAPE	LS9030-12D-827-73-NM-1-A-09-PS	LED	1275	12	2700K	277	12" IP67 RATED LINEAR FACADE LIGHT, 0-10V DIMMING.
M	BOBRICK	B-164	LED	2500	36	3500K	120	24"x36" BACKLIT MIRROR, HARDWIRED
P1	CAMMAN	P1063-192-LN-35-CLV-2-WM-xxx-ACM-2C	LED	25000	335	3500K	277	CUSTOM 16'ø PENDANT RING FIXTURE, 2-CIRCUIT WIRING FOR DIRECT AND INDIRECT. 0-10V DIMMING
P2	CAMMAN	P1063-144-LN-35-CLV-2-WM-xxx-ACM-2C	LED	15000	225	3500K	277	CUSTOM 12'ø PENDANT RING FIXTURE, 2-CIRCUIT WIRING FOR DIRECT AND INDIRECT. 0-10V DIMMING
P3	KUZCO	LP19947-BK	LED	1250	25	2700K	120	CEILING MOUNTED W/ (2) ADJUSTABLE CYLINDER LAMPS, ELV DIMMING
P4	PRIMUS LIGHTING	DSD-24-120-S14-27/150	LED	150/LAMP	1.5/LAMP	2700K	120	STRING LIGHT, 24" LAMP SPACING, SUPPORTED BY HEAVY-DUTY STEEL CABLE, HARDWIRED, ELV DIMMING
P5	KIRLIN	LSR-12483-2500L-120-D1-27K-87-89-PM	LED	2753	34.7	2700K	120	12"ø x20" PENDANT MOUNTED CYLINDER, WET LOCATION LISTED, 0-10V DIMMING
P6	———	———	———	———	———	3500K	120	48"ø PENDANT, ELV DIMMING, PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
P7	BARN LIGHT	BLE-C-SBD12-E26	LED, E26 BASE, ST19 SHAPE EDISON BULB	800	8.8	2700K	120	12"ø CORD HUNG PENDANT
P8a	KUZCO	PD986160-BK	LED	5326	130	2700K	120	5'ø RING PENDANT, ELV DIMMING
P8b	KUZCO	PD986160-BK	LED	5326	130	3500K	120	5'ø RING PENDANT, ELV DIMMING
P9	KUZCO	PD3106	LED	175	3	2700K	120	5½"ø GLASS GLOBE PENDANT, ELV DIMMING
P10	CAMMAN	P8800-36LN-27K-CLV-1-WM-STBD-PTBD-ST	LED	2300	25	2700K	120	4"ø x36" STEM HUNG PENDANT, 0-10V DIMMING
P11	CAMMAN	P87105-16LN-27K-CLV-2-WP-STBD-ST	LED	825	9	2700K	277	12"ø GLOBE STEM HUNG PENDANT, 0-10V DIMMING
R	CHAUVET PROFESSIONAL	COLORADO 1QS	LED	407	26.2	RGBW	120	RGBW WASHER, SUSPENDED FROM STRUCTURE, DMX DIMMING, INSTALL 15A RECEPTACLE AT EACH FIXTURE.
OR EM	———	———	———	———	———	———		PROVIDE LARGEST INTEGRAL EMERGENCY BATTERY AND CHARGER AVAILABLE WITH FIXTURE FOR 90 MINUTES OF ILLUMINATION WITHOUT UTILITY POWER. BATTERY AND CHARGER SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT. PROVIDE AND INSTALL TEST SWITCH AND INDICATOR LIGHT.

ELECTRICAL FIXTURE SCHEDULE CONTINUED

DESIGNATION	MANUFACTURER	CATALOG #	SOURCE	LUMENS	WATTS	COLOR TEMPERATURE	VOLTAGE	TYPE
S2	KUZCO	EW17805-BK	LED	107	7	2700K	120	WALL MOUNTED, WET LOCATION, ELV DIMMING
S3	BARN LIGHT	BLE-G-BDSL-100-W18-P14-NAS-LED8-2700K-MED-CLR-120	LED	1362	16	2700K	120	WALL MOUNTED SIGN LIGHT W/ (2) HEADS, ELV DIMMING
S4	KUZCO	WS19914-BK	LED	438	6	2700K	120	WALL MOUNTED, ELV DIMMING
S5	SISTEMALUX	S.L9202-xx-REM; 4549-0024-075-UNV-D10	LED	389	13.5	2700K	120-277	WALL MOUNTED, WET LOCATION, 2700K CUSTOM DRIVER, 0-10V DIMMING
S6	SISTEMALUX	S3952-827-NF-UNV-D10	LED	1105	14	2700K	120-277	WALL MOUNTED 5½"ø CYLINDER, WET LOCATION, UP/DOWN. 0-10V DIMMING
T1	SISTEMALUX	1770S1-BO-927-40-120; 8008-S1-02-8023	LED	5140	50	2700K	120	PENDANT MOUNTED 8FT TRACK LIGHT W/ (4) 12.5W HEADS, ELV DIMMING, PROVIDE ALL REQUIRED ACCESSORIES
T2	CHAUVET	COLORdash ACCENT 3	LED	1572	80	RGBA	120	(4) RGBA WASHERS, MOUNTED TO 8' SUSPENDED UNISTRUT, DMX DIMMING, INSTALL 15A RECEPTACLE FOR EVERY (2) FIXTURES.
U1	HUBBELL	RWL1-4BL-15-4K7-3-UNV-xxx-EH	LED	1962	14.5	4000K	277	EXTERIOR WALL PACK W/ EM BACKUP, MOUNTED DIRECTLY ABOUT EXTERIOR DOOR
U2	HUBBELL	RWL2-160L-45-4K7-3-UNV-xxx	LED	6668	46.1	4000K	277	EXTERIOR WALL PACK
V	FORUM LIGHTING	AQR-F-34-95LED27-WOLx8-UNV-xx-D10V	LED	7106	76	2700K	277	8'-0" RECESSED LINEAR, WET LOCATION, 0-10V DIMMING
W	HUBBELL	LBUL-20-3K	LED	2639	20	3000K	120	4"ø LANDSCAPE FLOOD LIGHT

LIGHT FIXTURE NOTES:

1. CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE QUANTITIES, LOCATIONS, AND MOUNTING HEIGHTS AND TYPES IN FIELD WITH OWNER.
2. CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE COLOR AND FINISH SELECTIONS WITH OWNER. COLOR CHOICES SHALL BE FROM MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHES UNLESS OTHERWISE NOTED.
3. TYPE P4 FIXTURE: CONTRACTOR SHALL COORDINATE FINAL LOCATION, LENGTH, AND LAMP QUANTITIES IN FIELD WITH OWNER AND ARCHITECT. PROVIDE ALL REQUIRED TERMINATION KITS, CABLE, AND HARDWARE NECESSARY FOR INSTALLATION.
4. TYPE LS1, LS2a, LS2b, LS3, & LS4 FIXTURES: CONTRACTOR SHALL DETERMINE FINAL LOCATION, LENGTH, AND CONFIGURATION IN FIELD WITH OWNER AND ARCHITECT. PROVIDE ALL REQUIRED MOUNTING HARDWARE, POWER SUPPLIES, POWER/JUMPER FEED CABLES, SURGE SUPPRESSION DEVICES, ETC. TO PROVIDE AND INSTALL COMPLETE AND OPERABLE SYSTEM.
5. TYPE P1 & P2:
   - 5.1. BASE BID: DESIGN AS SHOWN
   - 5.2. ALLOWANCE #1: CONTRACTOR SHALL PROVIDE CUSTOM LIGHT FIXTURES AS PART OF ALLOWANCE #1. PROVIDE CREDIT FOR BASE BID DESIGN. SEE SPEC SECTION 012100.

ELECTRICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
EM OR	DUAL-LITE	LExxRxxE	WALL OR CEILING MOUNTED L.E.D. EXIT SIGN WITH INTEGRAL BATTERY AND CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT. 120/277 VOLTS. CONTRACTOR TO CONFIRM MOUNTING TYPE IN FIELD PRIOR TO PURCHASE.
WL EM WL OR	DUAL-LITE	SEWLxRWE	WALL OR CEILING MOUNTED NEMA 4X L.E.D. EXIT SIGN WITH INTEGRAL BATTERY AND CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT. 120/277 VOLTS. CONTRACTOR TO CONFIRM MOUNTING TYPE IN FIELD PRIOR TO PURCHASE.
	DUAL-LITE	EZ-2LB	L.E.D. EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY AND CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. FIXTURE SHALL BE WIRED TO UNSWITCHES PHASE LEG OF INDICATED CIRCUIT. 120/277 VOLTS.
	HUBBELL	5362	DUPLEX RECEPTACLE, INDUSTRIAL GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
G	HUBBELL	GF5362	DUPLEX RECEPTACLE WITH GFCI PROTECTION, INDUSTRIAL GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
	HUBBELL	(2) 5362	(2) DUPLEX RECEPTACLES IN COMMON BOX, INDUSTRIAL GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
WP1	HUBBELL	BRY60W33D	WATERTIGHT DUPLEX RECEPTACLE WITH LIFT COVERS, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
WP2	HUBBELL	GF5362	DUPLEX RECEPTACLE WITH GFCI PROTECTION AND WEATHERPROOF COVER, INDUSTRIAL GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
	HUBBELL	(2) 5362	(2) DUPLEX OUTLETS IN COMMON BOX (QUAD), INDUSTRIAL GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
USB	LEVITON	T5833	DUPLEX RECEPTACLE TYPE A & TYPE C USB OUTLET CHARGERS, TAMPER RESISTANT, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
A	HUBBELL	2620SW 2030AP	L6-30 RECEPTACLE MOUNTED IN WATERTIGHT, NEMA 4X, 2-GANG JUNCTION BOX, 30 AMPERES, 1ø, 250 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
B	HUBBELL	2720SW 2030AP	L15-30 RECEPTACLE MOUNTED IN WATERTIGHT, NEMA 4X, 2-GANG JUNCTION BOX, 30 AMPERES, 3ø, 250 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
C	HUBBELL	2610	L5-30 TWIST-LOCK RECEPTACLE, 30 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
	———	———	STEEL FLOOR BOX WITH COVER, DUPLEX RECEPTACLE, AND DATA OUTLET. EXTEND (1) 1¼" EMT WITH PLASTIC BUSHING END AND DRAGLINE FROM LOW VOLTAGE SIDE OF BOX TO ACCESSIBLE SPACE ABOVE CEILING FOR FUTURE DATA/AV CABLING.
M	———	———	CEILING MOUNTED LIGHTING CONTROL MOTION SENSOR. REFER TO LIGHTING CONTROL ROOM SCHEDULE OR 'LIGHTING CONTROL SYSTEM SCHEMATIC' FOR DEVICE SPECIFICATION AND OPERATION MODE.
RC	———	———	LIGHTING CONTROL ROOM CONTROLLER OR POWER PACK. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$	———	———	SINGLE POLE SWITCH, SPECIFICATION GRADE, 15 AMPERES, 120/277 VOLTS. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$3	———	———	THREE WAY SWITCH, SPECIFICATION GRADE, 15 AMPERES, 120/277 VOLTS. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$4	———	———	FOUR WAY SWITCH, SPECIFICATION GRADE, 15 AMPERES, 120/277 VOLTS. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$D	———	———	DIMMING LIGHTING CONTROL SWITCH. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$V	———	———	SINGLE POLE VACANCY WALL SWITCH. SET FOR MANUAL ON/AUTO OFF (VACANCY) OPERATION. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$OC	———	———	SINGLE POLE OCCUPANCY WALL SWITCH. SET FOR AUTO ON/AUTO OFF (OCCUPANCY) OPERATION. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.
$M	———	———	MOMENTARY CONTACT LIGHTING CONTROL SWITCH. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR DEVICE SPECIFICATION AND OPERATION MODE.

ELECTRICAL EQUIPMENT SCHEDULE CONTINUED

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
#	———	———	DATA OUTLET. PROVIDE 1-GANG BACKLESS PVC OUTLET BOX WITH RESI-RINGS TO ACCEPT CONDUIT. PROVIDE AND INSTALL 1" EMT WITH PLASTIC END IN WALL FROM BOX TO ACCESSIBLE SPACE ABOVE FINISHED CEILING. PROVIDE CAT6 CABLE HOMERUNS TO I.T. ROOM ON 2ND FLOOR. NUMBER NEXT TO SYMBOL SHALL INDICATE DESIRED NUMBER OF HOMERUNS AT LOCATION. PROVIDE 10'-0" SERVICE LOOP ON EACH END OF CABLE. TERMINATIONS BY OTHERS. COORDINATE FINAL LOCATIONS, HEIGHTS AND LOW VOLTAGE/CABLING REQUIREMENTS IN FIELD WITH OWNER PRIOR TO INSTALLATION.
TV	ARLINGTON	TVBS505	TELEVISION LOCATION. INSTALL 2-GANG RECESSED STEEL TV BOX WITH TRIM PLATE, (1) DUPLEX RECEPTACLE AND (1) LOW VOLTAGE BOX. EXTEND (1) 1" EMT WITH PLASTIC BUSHING END FROM LOW VOLTAGE SIDE TO ACCESSIBLE LOCATION ABOVE CEILING. EXTEND (1) CAT6 CABLE AND (1) RG6 FROM LOW VOLTAGE BOX TO I.T. RACK ON 2ND FLOOR. PROVIDE 10'-0" SERVICE LOOP ON EACH END OF CABLE. TERMINATIONS BY OTHERS. COORDINATE FINAL HEIGHTS AND LOW VOLTAGE/CABLING REQUIREMENTS IN FIELD WITH OWNER PRIOR TO INSTALLATION.
HD	———	———	1000W, 120V DYSON HAND DRYER PROVIDED BY GENERAL CONTRACTOR. INSTALLED AND WIRE BY ELECTRICAL CONTRACTOR.
CR	———	———	SECURITY ACCESS READER LOCATION. PROVIDE AND INSTALL 1-GANG RECESSED BOX AT LOCATION. EXTEND 1" EMT WITH DRAGLINE FROM BOX TO ACCESSIBLE SPACE ABOVE CEILING. VERIFY LOCATION WITH OWNER'S SECURITY VENDOR.
M	———	———	MOTORIZED DAMPER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. POWER WIRING BY ELECTRICAL CONTRACTOR.
	———	———	HARD WIRED CONNECTION – WHERE EQUIPMENT OR APPLIANCE DOES NOT HAVE INTEGRAL DISCONNECTING MEANS, ELECTRICAL CONTRACTOR SHALL PROVIDE INDEPENDENT DISCONNECT SWITCH.
	———	———	UNFUSED DISCONNECT SWITCH. ALL DISCONNECT SWITCHES SHALL BE LABELED WITH CIRCUIT NUMBER AND SOURCE.
J	———	———	JUNCTION BOX.
	———	———	BRANCH CIRCUIT OR HOMERUN: EMT CONDUIT (REFER TO PANEL SCHEDULES FOR TYPE) WITH TYPE THHN INSULATED COPPER CONDUCTORS. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED.
	———	———	BRANCH CIRCUIT: TYPE MC (METAL CLAD) CABLE WITH COPPER CONDUCTORS AND FULL SIZED GROUND (WITHIN WALLS AND ABOVE CEILINGS). ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED. IN EXPOSED SPACES, EMT CONDUIT (REFER TO PANEL SCHEDULES FOR TYPE) WITH TYPE THHN INSULATED COPPER CONDUCTORS.
	———	———	LOW VOLTAGE (12-24VDC) LIGHTING CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED.
	———	———	BRANCH CIRCUIT: ELECTRICAL METALLIC TUBING (EMT) CONDUIT (UNLESS OTHERWISE SPECIFIED) WITH COPPER CONDUCTORS AND FULL SIZED GROUND. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED OR APPROVED.
	———	———	LOW VOLTAGE (12-24VDC) LIGHTING CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS EXTENDED IN ½" (MINIMUM) EMT CONDUIT. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED.

Date	10/15/21
Checked	SZ
Drawn	BH/DC/KC

GERARD HLUCHAN
The LICENSED PROFESSIONAL ENGINEER New York License No. 069684

Revisions:

1 PERMIT SET 10/15/21

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ELECTRICAL:
EQUIPMENT SCHEDULES
ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

File No. 4155201 E701

E7.01

PANEL MDP

480Y/277V, 3-PHASE, 4 WIRE
900 AMPERES, MAIN CIRCUIT BREAKER (310+ LS)
EATON PRL4

BRANCH: 35,000 A.I.C. THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKERS
ENCLOSURE: SURFACE NEMA 1

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
EF-1 (KITCHEN HOOD	(3) #12 THHN, #12 GND, ¾" EMT	15	1 2	15	(3) #12 THHN, #12 GND, ¾" EMT	MUA-1
		15	3 4	15		
		15	5 6	15		
RTU-2 (GAME ROOM)	(3) #8 THHN, #10 GND, ¾" EMT	35	7 8	35	(3) #8 THHN, #10 GND, ¾" EMT	RTU-5 (CONFERENCE ROOM)
		35	9 10	35		
		35	11 12	35		
DISHWASHER	(3) #8 THHN, #10 GND, ¾" EMT	40	13 14	45	(3) #8 THHN, #10 GND, ¾" EMT	RTU-4 (KITCHEN)
		40	15 16	45		
		40	17 18	45		
RTU-3 (TAP ROOM)	(3) #4 THHN, #8 GND, 1" EMT	80	19 20	50	(3) #8 THHN, #10 GND, ¾" EMT	DISHWASHER BOOSTER HEATER
		80	21 22	50		
		80	23 24	50		
RTU-1 (BEER HALL)	(3) #3 THHN, #8 GND, 1¼" EMT	90	25 26	90	(3) #3 THHN, #8 GND, 1¼" EMT	RTU-6 (BREWERY)
		90	27 28	90		
		90	29 30	90		
BREWERY GLYCOL CHILLER	(3) #4 THHN, #8 GND, 1½" EMT	90	31 32	90	(3) #4 THHN, #8 GND, 1¼" EMT	XFMR-A 75kVA TRANSFORMER (PANEL KP)
		90	33 34	90		
		90	35 36	90		
PANEL HP	(4) #4/0 THHN, #4 GND, 2½" EMT	225	37 38	150	(3) #1/0 THHN, #6 GND, 2" EMT	XFMR-B 112.5kVA TRANSFORMER (PANEL BP)
		225	39 40	150		
		225	41 42	150		
HEATER EH-3	(3) #6 THHN, (3) #8 THHN #8 GND, 1¼" EMT	60	43 44	30	(3) #10 THHN, #10 GND, ¾" EMT	AIR COMPRESSOR (6)
		60	45 46	30		
		60	47 48	30		
HEATER EH-3		45	49 50	40	(3) #8 THHN, #10 GND, 1" EMT	PH NEUTRALIZATION SYSTEM P-41
		45	51 52	40		
		45	53 54	40		
VAV-7	(3) #12 THHN, #12 GND, ¾" EMT	20	55 56	20	(3) #12 THHN, #12 GND, ¾" EMT	PH SYSTEM HEATER
		20	57 58	20		
		20	59 60	20		
PUMP P-42	(3) #12 THHN, #12 GND, ¾" EMT	20	61 62			100 FRAME SPACE
		20	63 64			
		20	65 66			

PANEL HP

480Y/277V, 3-PHASE, 4 WIRE
225 AMPERES, MAIN LUG ONLY

BRANCH: 35,000 A.I.C. THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKERS
ENCLOSURE: SURFACE NEMA 1

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
BREWING AREA LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	1 2	20	(2) #10 THHN, #10 GND, ¾" EMT	HEATER EH-4
BREWING AREA LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	3 4	20	(2) #12 THHN, #12 GND, ¾" EMT	HEATER EH-5
CORRIDOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	5 6	20	———	SPARE
OFFICE/BREAK/ RESTROOM LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	7 8	20	(3) #12 THHN, #12 GND, ¾" EMT	(6) ¾ HP GARAGE DOOR OPERATORS
KITCHEN LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	9 10	20		
COOLER 124 LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	11 12	20		
(5) LOADING AREA/ ENTRANCE LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	13 14	20	(3) #12 THHN, #12 GND, ¾" EMT	(2) HEATER EH-1
HAND DRYERS	(2) #12 THHN, #12 GND, ¾" EMT	20	15 16	20		
EXTERIOR FACADE LIGHTING	(2) #10 THHN, #10 GND, ¾" EMT	20	17 18	20		
HEATER EH-2	(6) #8 THHN, #10 GND, 1" EMT	30	19 20	20	(2) #10 THHN, #10 GND, 1" EMT	GENERATOR BATTERY CHARGER/HEATER
HEATER EH-2		30	21 22	20		
HEATER EH-2		30	23 24	20	(2) #12 THHN, #12 GND, ¾" EMT	EXIT SIGN AND EMERGENCY LIGHTING (7)
HEATER EH-2	(6) #8 THHN, #10 GND, 1" EMT	30	25 26	70	(4) #6 THHN, #10 GND, 1" EMT	LIGHTING CONTROL PANEL LP-1
HEATER EH-2		30	27 28	70		
HEATER EH-2		30	29 30	70		
HEATER EH-2	(6) #8 THHN, #10 GND, 1" EMT	30	31 32	20	(2) #12 THHN, #12 GND, ¾" EMT	EXIT SIGN AND EMERGENCY LIGHTING
HEATER EH-2		30	33 34	20	———	SPARE
HEATER EH-2		30	35 36	20	———	SPARE
HEATER EH-2	(6) #8 THHN, #10 GND, 1" EMT	30	37 38	70	(3) #6 THHN, #8 GND, 1" EMT	EXISTING 45kVA TRANSFORMER
HEATER EH-2		30	39 40	70		
HEATER EH-2		30	41 42	70		

PANEL KP

208Y/120V, 3-PHASE, 4 WIRE
225 AMPERES, MAIN LUG ONLY

BRANCH: 10,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS
ENCLOSURE: RECESSED NEMA 1

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
(1) ICE MAKER – #32	(2) #12 THHN, #12 GND, ¾" EMT	25	1 2	20	(2) #12 THHN, #12 GND, ¾" EMT	REACH-IN FRIDGE – #53 (1)
(1) HAND SINKS	(2) #12 THHN, #12 GND, ¾" EMT	20	3 4	20	(2) #12 THHN, #12 GND, ¾" EMT	WORKTOP FRIDGE – #56 (1)
SPARE	———	20	5 6	20	(2) #12 THHN, #12 GND, ¾" EMT	CUTTER/MIXER – #58 (1)
SPARE	———	20	7 8	15	(2) #12 THHN, #12 GND, ¾" EMT	WARM CABINET – #59 (1)
WIF 117C EVAPORATOR	(2) #12 THHN, #12 GND, ¾" EMT	20	9 10	20	(2) #12 THHN, #12 GND, ¾" EMT	CONVECTION OVENS – #61 (1)(2)
SPARE	———	20	11 12	20	(2) #12 THHN, #12 GND, ¾" EMT	CONVECTION OVENS – #61 (1)(2)
(1) BAG-IN-BOX/FRIDGE – #37/39	(2) #12 THHN, #12 GND, ¾" EMT	20	13 14	20	(2) #12 THHN, #12 GND, ¾" EMT	FRYER – #62 (1)(2)
(1) BEVERAGE DISPENSER – #38	(2) #12 THHN, #12 GND, ¾" EMT	20	15 16	20	(2) #12 THHN, #12 GND, ¾" EMT	WORKTOP FRIDGE – #63 (1)
(1) COFFEE MAKER – #41	(2) #12 THHN, #12 GND, ¾" EMT	20	17 18	20	(2) #12 THHN, #12 GND, ¾" EMT	BASE FRIDGE – #64 (1)
(1) SLICER – #47	(4) #12 THHN, #12 GND, ¾" PVC	20	19 20	20	(2) #12 THHN, #12 GND, ¾" EMT	GRIDDLE/RANGE – #65, 67 (1)(2)
(1) RECEPTACLES		20	21 22	20	(2) #12 THHN, #12 GND, ¾" EMT	RANGE – #67 (1)(2)
(1) HAND SINKS	(2) #12 THHN, #12 GND, ¾" EMT	20	23 24	20	(2) #12 THHN, #12 GND, ¾" EMT	HOOD CONTROL PANEL – #73
DROP-IN WARMER – #78	(2) #12 THHN, #12 GND, ¾" EMT	20	25 26	20	(2) #12 THHN, #12 GND, ¾" EMT	FIRE SUPPRESSION SYSTEM – #74
		20	27 28	20	(2) #12 THHN, #12 GND, ¾" EMT	FRIDGE – #81 (1)
OVERHEAD FOOD WARMER – #80	(2) #12 THHN, #12 GND, ¾" EMT	20	29 30	20	(2) #12 THHN, #12 GND, ¾" EMT	REACH-IN FRIDGE – #83 (1)
OVERHEAD FOOD WARMER – #80	(2) #12 THHN, #12 GND, ¾" EMT	20	31 32	20	(2) #12 THHN, #12 GND, ¾" EMT	HOOD CONTROL PANEL – #86
OVERHEAD FOOD WARMER – #80	(2) #12 THHN, #12 GND, ¾" EMT	20	33 34	20	(2) #12 THHN, #12 GND, ¾" EMT	FIRE SUPPRESSION SYSTEM – #87
(1) RECEPTACLES	(2) #12 THHN, #12 GND, ¾" EMT	20	35 36	20	———	SPARE
WIC 117C CONDENSER (ON ROOF)	(3) #10 THHN, #10 GND, ¾" EMT	20	37 38	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
		20	39 40	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
		20	41 42	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
WIF 117B CONDENSER (ON ROOF)	(3) #8 THHN, #10 GND, ¾" EMT	40	43 44	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
		40	45 46	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
		40	47 48	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
SPARE	———	20	49 50	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
SPARE	———	20	51 52	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
SPARE	———	20	53 54	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
SPARE	———	20	55 56	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
SPARE	———	20	57 58	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER
SPARE	———	20	59 60	20	(2) #12 THHN, #12 GND, ¾" EMT	HAND DRYER

PANEL PP (SECTION 1) (EXISTING)

208Y/120V, 3 PHASE, 4-WIRE
150 AMPERE, MAIN CIRCUIT BREAKER

BRANCH: ALL NEW CIRCUIT BREAKERS SHALL BE LISTED FOR USE WITH EXISTING PANELBOARD AND MATCH A.I.C. RATING OF EXISTING CIRCUIT BREAKERS

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
(4) RECEPTACLE AROUND TREE	(2) #12 THHN, #12 GND, ¾" EMT	20	1 2	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
(5)(4) WEST EXTERIOR SIGN LIGHT	(2) #10 THHN, #10 GND, ¾" EMT	20	3 4	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
(5)(4) FRONT EXTERIOR SIGN LIGHT	(2) #12 THHN, #12 GND, ¾" EMT	20	5 6	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
(4) RECEPTACLES	(2) #12 THHN, #12 GND, ¾" EMT	20	7 8	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
(4) RECEPTACLES	(2) #12 THHN, #12 GND, ¾" EMT	20	9 10	20	(2) #12 THHN, #12 GND, ¾" EMT	FRIDGE RECEPTACLE (1)(4)
(4) LIGHTING CONTROL ENCLOSURE	(2) #12 THHN, #12 GND, ¾" EMT	20	11 12	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
(4) ROOFTOP SERVICE RECEPTACLES	(2) #10 THHN, #10 GND, ¾" EMT	20	13 14	20	(2) #12 THHN, #12 GND, ¾" EMT	WATER COOLER RECEPTACLE (4)
EXISTING SPARE		20	15 16	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
EXISTING SPARE		20	17 18	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
EXISTING SPARE		20	19 20	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
EXISTING SPARE		20	21 22	20	(2) #12 THHN, #12 GND, ¾" EMT	TV RECEPTACLES (4)
EXISTING SPARE		20	23 24	20	(2) #12 THHN, #12 GND, ¾" EMT	TV RECEPTACLES (4)
EXISTING SPARE		20	25 26	20	(2) #12 THHN, #12 GND, ¾" EMT	TV RECEPTACLES (4)
(4) RECEPTACLES GAME ROOM	(2) #12 THHN, #12 GND, ¾" EMT	20	27 28	20	(2) #12 THHN, #12 GND, ¾" EMT	TV RECEPTACLES (4)
(4) RECEPTACLES BEER HALL	(2) #12 THHN, #12 GND, ¾" EMT	20	29 30	20	(2) #12 THHN, #12 GND, ¾" EMT	TV RECEPTACLES (4)
(4) RECEPTACLES BEER HALL	(2) #12 THHN, #12 GND, ¾" EMT	20	31 32	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (4)
(4) RECEPTACLES TAPROOM	(2) #12 THHN, #12 GND, ¾" EMT	20	33 34	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (3)
(4) RECEPTACLES LOBBY	(2) #12 THHN, #12 GND, ¾" EMT	20	35 36	20	(2) #12 THHN, #12 GND, ¾" EMT	FLOOR RECEPTACLES (4)
EXISTING SPARE			37 38	20	(2) #12 THHN, #12 GND, ¾" EMT	FLOOR RECEPTACLES (4)
EXISTING SPARE			39 40	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES
FIRE ALARM CONTROL PANEL	(2) #12 THHN, #12 GND, ¾" EMT	20	41 42			EXISTING SPARE

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

1. INSTALL GFCI CIRCUIT BREAKER WHERE INDICATED.
2. CIRCUITRY SHALL BE ROUTED THROUGH KITCHEN CONTACTOR PANEL. REFER TO 'KITCHEN CONTACTOR DETAIL'.
3. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD.
4. UTILIZE EXISTING CIRCUIT BREAKER IN EXISTING PANELBOARD.
5. PROVIDE AND INSTALL ASTRONOMIC 7-DAY DIGITAL TIME CLOCK FOR CONTROL OF EXTERIOR LIGHTS. TIME CLOCK SHALL BE PROGRAMMED TO TURN LIGHTS ON AT DUSK AND OFF AT DAWN. TIME CLOCK SHALL BE CAPABLE OF RETAINING PROGRAMMING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
6. VERIFY AIR COMPRESSOR LOCATION IN FIELD WITH INSTALLING CONTRACTOR.
7. CIRCUIT BREAKER SHALL BE LOCKABLE IN THE 'ON' POSITION.

NOTES:

1. ALL SINGLE PHASE CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY EQUIPMENT CIRCUITRY REQUIREMENTS IN FIELD.
3. ALL CHANGES TO WIRE SIZE, OVERCURRENT PROTECTION, ETC. SHALL BE APPROVED BY ENGINEER.

PANEL BP

208Y/120V, 3-PHASE, 4 WIRE
400 AMPERES, MAIN LUG ONLY

BRANCH: 10,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS
ENCLOSURE: SURFACE MOUNTED IN 90.3636-4XSFS3PT NEMA 4X ENCLOSURE

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
(1) KEG WASHER	(3) #10 THHN, #10 GND, ¾" EMT	25	1 2	30	(3) #10 THHN, #10 GND, ¾" EMT	L15-30 RECEPTACLE (1)
		25	3 4	30		
		25	5 6	30		
(1) L15-30 RECEPTACLE	(3) #10 THHN, #10 GND, ¾" EMT	30	7 8	30	(3) #10 THHN, #10 GND, ¾" EMT	L15-30 RECEPTACLE (1)
		30	9 10	30		
		30	11 12	30		
(1) L15-30 RECEPTACLE	(3) #10 THHN, #10 GND, ¾" EMT	30	13 14	30	(3) #10 THHN, #10 GND, ¾" EMT	L15-30 RECEPTACLE (1)
		30	15 16	30		
		30	17 18	30		
(1) L15-30 RECEPTACLE	(3) #10 THHN, #10 GND, ¾" EMT	30	19 20	30	(3) #10 THHN, #10 GND, ¾" EMT	L15-30 RECEPTACLE (1)
		30	21 22	30		
		30	23 24	30		
GRIST MILL	(3) #10 THHN, #10 GND, ¾" EMT	25	25 26	20	(2) #12 THHN, #12 GND, ¾" EMT	CARBON FILTER (1)
		25	27 28	20	(2) #12 THHN, #12 GND, ¾" EMT	SOFTENER (1)
		25	29 30	20	(2) #12 THHN, #12 GND, ¾" EMT	BOILER
(1) L15-30 RECEPTACLE	(3) #10 THHN, #10 GND, ¾" EMT	30	31 32	20	(2) #12 THHN, #12 GND, ¾" EMT	CELLAR CONTROL CABINET
		30	33 34	20	(2) #12 THHN, #12 GND, ¾" EMT	AUGER MOTOR
		30	35 36	20		
20bbl BREWHOUSE CONTROL CABINET	(3) #6 THHN, #8 GND, 1" EMT	75	37 38	20	(3) #12 THHN, #12 GND, ¾" EMT	DPL-250 DEPALLETIZER
		75	39 40	20		
		75	41 42	30	(3) #10 THHN, #10 GND, ¾" EMT	CCL-45 FILLER
5bbl BREWHOUSE CONTROL CABINET	(3) #8 THHN, #10 GND, ¾" EMT	60	43 44	30		
		60	45 46	30		
		60	47 48	20		CANNING LINE RECEPTACLE (1)
(1) RECEPTACLES	(2) #12 THHN, #12 GND, ¾" EMT	20	49 50	20	(6) #12 THHN, #12 GND, ¾" EMT	CANNING LINE RECEPTACLE (1)
RECEPTACLES	(2) #12 THHN, #12 GND, ¾" EMT	20	51 52	20		CANNING LINE RECEPTACLE (1)
WATER HEATER P-29	(2) #12 THHN, #12 GND, ¾" EMT	20	53 54	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (1)
COOLER 105D EVAPORATORS	(2) #12 THHN, #12 GND, ¾" EMT	20	55 56	20	(2) #12 THHN, #12 GND, ¾" EMT	RECEPTACLES (1)
COOLER 105D CONDENSER (ON ROOF)	(3) #8 THHN, #10 GND, ¾" EMT	40	57 58	20	(2) #12 THHN, #12 GND, ¾" EMT	COOLER 124 EVAPORATOR
		40	59 60	25	(3) #10 THHN, #10 GND, ¾" EMT	COOLER 124 CONDENSER (ON ROOF)
		40	61 62	25		
COOLER 105D CONDENSER (ON ROOF)	(3) #8 THHN, #10 GND, ¾" EMT	40	63 64	25		
		40	65 66	30	(3) #10 THHN, #10 GND, ¾" EMT	COOLER 105A CONDENSER (ON ROOF)
		40	67 68	30		
COOLER 105A EVAPORATORS	(2) #12 THHN, #12 GND, ¾" EMT	20	69 70	30		
SOLID INTERCEPTOR P-39	(2) #12 THHN, #12 GND, ¾" EMT	20	71 72	20	(2) #12 THHN, #12 GND, ¾" EMT	CONDENSATE PUMPS CP-1
SPACE ONLY	———		73 74		———	SPACE ONLY
			75 76			
			77 78			
			79 80			
			81 82			
			83 84			

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
			43 44	15	(8) #10 THHN, #10 GND, 1" EMT	EF-2 (3)
(4) RESTROOM LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	45 46	15		EF-3 (3)
(3) WATER HEATER P-10	(2) #8 THHN, #10 GND, ¾" EMT	40	47 48	15		EF-4 (3)
		40	49 50	15		EF-5 (3)
(4) HP-1	(2) #12 THHN, #12 GND, ¾" EMT	20	51 52	15	(2) #10 THHN, #10 GND, ¾" EMT	EF-6 (3)
		20	53 54	20	(2) #12 THHN, #12 GND, ¾" EMT	TAPROOM FIREPLACES (4)
(4)(3) HVAC-1	(2) #12 THHN, #12 GND, ¾" EMT	15	55 56	20	(2) #10 THHN, #10 GND, ¾" EMT	OUTDOOR FOUNTAIN RECEPTACLE (4)
		15	57 58	20	(2) #10 THHN, #10 GND, ¾" EMT	OUTDOOR FOUNTAIN RECEPTACLE (4)
(4) POURMYBEER SYSTEM	(2) #12 THHN, #12 GND, ¾" EMT	20	59 60	20	(2) #12 THHN, #12 GND, ¾" EMT	WATERFALL RECEPTACLES (3)
(4) POURMYBEER SYSTEM	(2) #12 THHN, #12 GND, ¾" EMT	20	61 62	20	(2) #12 THHN, #12 GND, ¾" EMT	WATERFALL RECEPTACLES (4)
(4) POURMYBEER SYSTEM	(2) #12 THHN, #12 GND, ¾" EMT	20	63 64	20	(2) #10 THHN, #10 GND, ¾" EMT	OUTDOOR RECEPTACLES (4)
(4) LOBBY BEER COOLER	(2) #10 THHN, #10 GND, ¾" EMT	20	65 66	20	(2) #12 THHN, #12 GND, ¾" EMT	HP-1 (3)
(4) LOBBY BEER COOLER		20	67 68	20		
(3) WATER HEATER P-9	(2) #8 THHN, #10 GND, ¾" EMT	40	69 70	15	(2) #12 THHN, #12 GND, ¾" EMT	AC-1 (3)
		40	71 72	15		
(4) WATER HEATER P-11	(2) #12 THHN, #12 GND, ¾" EMT	20	73 74	15	(2) #10 THHN, #10 GND, ¾" EMT	EF-7 (3)
(3) WATER COOLER CHILLER P-22	(2) #12 THHN, #12 GND, ¾" EMT	20	75 76	20	(2) #12 THHN, #10 GND, ¾" EMT	VAV-4/MOTORIZED DAMPER (4)
(4) WATER COOLER CHILLER P-24	(2) #12 THHN, #12 GND, ¾" EMT	20	77 78	20	(2) #12 THHN, #10 GND, ¾" EMT	VAV BOXES (4)
(4) HEAT TRACE	(2) #10 THHN, #10 GND, ¾" EMT	20	79 80	70	(4) #6 THHN, #10 GND, 1" EMT	LIGHTING CONTROL PANEL LP-2
EXISTING SPARE			81 82	70		
EXISTING SPARE			83 84	70		

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Revisions:

	PERMIT SET
1	10/15/21

ELECTRICAL:
SCHEDULES

ASPIRE BREWING TAP ROOM & BREWERY
FOR SONNY PATEL BREWING COMPANY, INC.
400/600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01

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