

COMMON ABBREVIATIONS

A/C	AIR CONDITIONING	L.L.	LANDLORD
A.F.F.	ABOVE FINISH FLOOR	LAM.	LAMINATED
BD.	BOARD	MECH.	MECHANICAL
BLK	BLOCK	MISC.	MISCELLANEOUS
COL.	COLUMN	NO.	NUMBER
C.M.U.	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE
DET.	DETAIL	O.A.	OVERALL
DIM.	DIMENSION	O.C.	ON CENTER
DWG.	DRAWING	P.V.C.	POLYVINYL CHLORIDE
EA.	EACH	P.L.	PROPERTY LINE
E.I.F.S.	EXTERNAL INSULATION FINISH SYSTEM	R.A.	RETURN AIR
ELEC.	ELECTRICAL	RM.	ROOM
ELEV.	ELEVATION	R.O.	ROUGH OPENING
FD.	FLOOR DRAIN	R.O.W.	RIGHT OF WAY
FIN.	FINISH	S.C.	SOLID CORE
G.C.	GENERAL CONTRACTOR	SCHED.	SCHEDULE
GYP.	GYPSUM	S.L.	SPECIALTY LIGHTING
H.B.	HOSE BIBB	SPEC.	SPECIFICATION
H.C.	HOLLOW CORE	STL.	STEEL
H.M.	HOLLOW METAIL	TEL.	TELEPHONE
HORIZ.	HORIZONTAL	TYP.	TYPICAL
HGT.	HEIGHT	U.N.O.	UNLESS NOTED OTHERWISE
INSUL.	INSULATION	VERT.	VERTICAL
INT.	INTERIOR	W.	WASSERSTROM
JST.	JOIST	W.C.	WATER CLOSET
LAV.	LAVATORY	W/	WITH
		ZEE	OWNER/ FRANCHISEE

PROJECT

SK STORE 1545

1440 NE DOUGLAS ST.
LEES SUMMIT, MO. 64086

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ME 101

MEP COVER SHEET

ME201

MEP SPECIFICATIONS

M101

PLUMBING

P101

PLUMBING

E101

LIGHTING

E201

POWER

OCCUPANCY TYPE

APPLICABLE CODES :

2018 International Building Code

2018 International Plumbing Code

2018 International Mechanical Code

2018 International Fuel Gas Code

2018 International Residential Code

2018 International Fire Code

2017 National Electrical Code

ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities

USE GROUP :

'M' Mercantile. Table 1004.1.2

GROSS TENANT AREA :

1,200 Square Feet

CONSTRUCTION TYPE ;

VB Sections 602.2 / 603 . Table 601

OCCUPANT LOAD :

Table 1004.1.1 Values

Seating (tables,chairs)

1 occ / 15 sf

Kitchen.Prep Areas

1 occ / 200 sf

Mercantile Areas

1 occ / 60 sf

Business Areas

1 occ / 150 sf

Waiting.Queueing Areas

1 occ / 5 sf

Proposed Occupants

Seating (tables,chairs)

119sf

7.93 occ

Kitchen.Prep Areas

668sf

3.34 occ

Mercantile Areas

55sf

0.92 occ

Business Areas

40sf

0.27 occ

Waiting.Queueing Areas

26sf

5.2 occ

Total

17.66 = 18 occ.

EGRESS WIDTH ;

0.20" per occupant Table 1005.1

Required

18 occ x 0.20" = 3.60" (1 exit)

Provided

72.00" (2 exits)

NATIONAL VENDORS

GENERAL CONTACT VENDORS

- CREATIVE MATERIALS CORP - ALLISON PICHÉ - 518-713-5395 - (FLOOR AND WALL TILE)

- HME (CONTACT: CRAIG AT 770-309-1768) -(DRIVE THRU HEADSET, LOOP, SPEAKER SYSTEM)

- HOSHIZAKI 1-800-438-6087 - (ICE MACHINE)

- LAM-LITE (CONTACT LEE 1-800-422-3556) - (WOOD LAM-LITE BEAM)

- c3ms MEDIA (CONTACT JODI HINAND) 360-892-5480 - JODI@C3MS.COM (STORE MUSIC)

- READY ACCESS 1-800-621-5045 X118 (CONTACT CHAD BAUER) - (DRIVE THRU WINDOW)

- SHERWIN WILLIAMS (CONTACT LOCAL REPRESENTATIVE) - (PAINT)

- USG - (CONTACT JOHN FUNES, CORPORATE ACCOUNTS)

EMAIL:JFUNES@USG.COM OFFICE: (312)436-5841 CELL: (312)401-6579

- CANOPY VENDOR: ALLEN INDUSTRIES - JOHN FABIAN - 1-800-967-2553

EMAIL: JOHN.FABIAN@ALLENINDUSTRIES.COM

FRANCHISEE CONTACT VENDORS

- COLORMARK(CONTACT AMANDA RHUE) ARHUE@COLORMARK-LC.COM - (MENU BOARD INSERTS)

- COMET SIGNS 972-870-1594 (SK DISC SIGN)

- c3ms MEDIA (CONTACT JODI HINAND) 360-892-5480 - JODI@C3MS.COM (STORE MUSIC)

- SSDC (CONTACT email fsdinstalls@ssdcsoap.com) - SINK SANITIZER 256-239-5631

- STORE DECOR (CONTACT JOHN) 972-475-4404 X 2228 - JOHN@THESTOREDECOR.COM (SK GRAPHICS)

- VITAMIX (CONTACT RACHEL BURKHART) 1-440-782-2399 - (BLENDERS)

POS, CREDIT & GIFT CARD SYSTEMS

- ALL POS INSTALLS TO ONLY BE INSTALLED BY MAVEN IT.

AARON MCCARTHY 248-781-4711 SKNEWSTORES@MAVENTINC.COM

- BRINK (GO TO: THEBLEND.SMOOTHIEKING.COM - SEARCH: BRINK- DOWNLOAD: AGREEMENT & QUESTIONNAIRE)

FURNITURE FIXTURES & EQUIPMENT (FF&E) APPROVED PROVIDERS

- WASSERSTROM

- GEN III (CONTACT TYLER GREER) 1-614-737-8983 (EQUIP, CABINETRY & FURNITURE)

- HOCKENBERGS (CONTACT MARK BURRUS)402.609.5166 (EQUIP, CABINETRY & FURNITURE)

LEGEND OF SYMBOLS

DOOR MARK:

DOOR TYPE

2

A

HARDWARE TYPE

SECTION MARK:

SHEET DWG. APPEARS ON

2

A-3

FINISH LEGEND:

BASE

FLOOR

P-2

B-1

VCT-2

WALL

NORTH ARROW:

EQUIPMENT MARK:

12

EQUIPMENT NO.

DRAWINGS MARK:

DWG. NO.

2

DWG. DESCRIPTION

DETAIL

1/2" = 1'-0"

SHEET NO.

A-3

SCALE

ELEVATION MARK:

ELEVATION NO.

2

DIRECTION

A-3

SHEET DWG. APPEARS ON

REVISION:

1

REVISION NO.

VICINITY MAP- NOT TO SCALE

CITY MAP- NOT TO SCALE

DIAGRAMS - NOT TO SCALE

Occupant Diagram No Scale

Seating

Kitchen . Prep Areas

Queing Areas

Business Areas

Merchandise Areas

Key Plan No Scale

Smoothie King

NE DOUGLAS ST.

COVER SHEET

sheet number

A-0

HIVE

SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
LEES SUMMIT, MO 64086

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STATE OF MISSOURI

MARK M. PORTT

ARCHITECT

NUMBER A-2021000208

01.10.22

project number

2021-099

date

1/4/22

issued for

PERMIT

1

01.10.22

City Comments

01000 **General Conditions**

General

- Construction shall comply with all city, state, and national codes, rules and regulations and with the American with Disabilities Act. Compliance codes include but are not limited to the following:
 - o IBC International Building Code
 - o ASHRAE American Society of Heating, Refrigerating and Air Conditioning Engineers
 - o ARI Air-Conditioning and Refrigeration Institute
 - o IECC International Energy Conservation Code
 - o IMC International Mechanical Code
 - o NFPA National Fire Protection Association
 - o N.E.C. National Electric Code
 - o I.P.C. International Plumbing Code

- Reference A.I.A. Document A-201 for complete General Conditions. Supplementary and amendments to these documents are as included in drawings. If discrepancies arise between documents, drawing specifications take precedence over A.I.A. Document A-201.
- No signs or advertisements will be allowed to be displayed on the premises unless written approval is obtained by Franchisee and building owner/manager (Landlord).

Summary of Work

- Landlord Workletter provided by Owner delineates Landlord's Scope of Work and shall take precedence over drawings unless specifically noted otherwise by Owner.
- Contractor is to confirm with Owner as to responsibilities for unloading and installing millwork, equipment (refrigerators, freezers, etc...), and pallets of smallwares. If Contractor is unloading and installing, Contractor will require a 5,000 lb forklift to unload and transport millwork, equipment, and smallwares pallets. FF&E to take photos prior to contractor unloading millwork and equipment from truck.
- Contractor shall obtain and pay for the Building Permit and post in a visible location as required by local jurisdictions.
- All work is to be performed by Contractor and subcontractors licensed to do work within the local jurisdiction.

Examination of Site

- Contractor shall examine the premises and become familiar with all existing conditions. Failure to examine the site will not relieve the Contractor of his responsibility to complete his work at no additional cost to the Owner. Contractor shall notify the Owner and Architect and Smoothie King Construction manager in writing if he discovers any discrepancies between the drawings and existing conditions.
- Contractor shall be familiar with any and all Landlord requirements for work performed on premises, including but not limited to requirements regarding construction requirements, trash removal, deliveries, access to premises, allowed hours, use of common areas, any landlord required subcontractors, continuity of utilities and services, etc.

Continuity of Existing Utilities and Facilities

- Contractors shall notify building management and obtain written approval before performing any work which may temporarily discontinue or disrupt existing services and facilities (electrical, sewer, water, gas, heat, fire lanes, etc.).
- Temporary Facilities and Utilities
 - Contractor shall arrange for and maintain temporary facilities, utilities, heat and lighting as needed for proper execution of work.
 - Contractor shall provide temporary storage facilities as needed.
 - Provide temporary protection required to adequately protect the adjoining property, public, and construction personnel.
 - Provide locked entrances and prevent intrusion to the premises by anyone unauthorized.

Site Conditions and Final Clean

- No alcohol or smoking will be allowed within the demised premises.
- Contractor shall immediately clean all dust and debris related to deliveries or construction which occurs in the public corridors, sidewalks or common areas.
- Contractor shall remove and dispose of waste materials within and around premises on a daily basis to ensure the site is maintained in a clean and organized manner.
- Contractor to provide location for disposal of all pallets, cardboard, and packing materials used for vendor supplied items (i.e. casework, refrigerators, freezers, etc.). A 20 yd waste container is suggested.
- Contractor shall be responsible to clean the interior/exterior of the site prior to performing the Punch walk-through with Owner.
- Contractor shall final clean the interior/exterior prior to Turn Over.
- Contractor is responsible for any damage to existing structure or contents due to negligence to properly protect such structure or contents.

- Contractor shall repair in a like manner any areas which are damaged due to alternations or intersections of new and old work, including repair, patch, paint, or refinish as necessary.

Schedule and Coordination

- Contractor shall complete the work in accordance to the schedule agreed upon with Owner. Contractor may add tasks and adjust schedule dates, providing contractor coordinates with all impacted vendors and the overall duration from construction start to construction completion is not extended beyond the total number of days shown.
- Contractor is responsible for installation of Owner furnished vendor provided items as noted on drawings
- Contractor to provide sufficient opening into store for delivery of millwork and equipment, including temporary removal of doors or storefront if necessary.
- Contractor to ensure completion of the following items prior to arrival of millwork and equipment:
 - o Walls, including paint and FRP
 - o Ceilings, including ceiling tile, canopy, fixtures, registers, and grills
 - o Flooring, including tile, grout, base, VCT, and any sealants
 - o Electrical and plumbing stubs are roughed in and ready to receive millwork and equipment

Closeout and Warranty

- Contractor shall provide the following additional items to Owner upon Punch walk-through:
 - o Five (5) extra ceiling tiles of each type provided
 - o One (1) quart of each paint color, with color indicated on lid
 - o Ten (10) extra ceramic tiles and base tiles for each tile type
 - o Five (5) extra light bulbs for each bulb type
 - o All keys to the premises
- Contractor shall provide the following documents to the Owner upon completion of work:
 - o Written warranty inclusive of all work, including labor, materials, and equipment, for one (1) year from date of completion of the project.
 - o Unconditional lien waiver upon completion of and receipt of payment of all work.
 - o Lien waivers for all major subcontractors and as required by Owner.
- Insurance
 - Insurance certificates shall be furnished to the Owner prior to the start of construction and be with a reliable company authorized to do business in the State in which work is being done.
 - Contractor and subcontractors shall comply with local municipality's, Landlord's and Owner's requirements for insurance and waivers of lien and shall carry the following.
 - o Workman's Compensation and Employer's Liability insurance with minimum limits as per governing agencies
 - o Comprehensive General Liability as required by Landlord (minimum limits of \$250,000)
 - o Combined Single Limit including Comprehensive General Broad Form Endorsement naming Owner, Smoothie King Franchises, Inc., and Landlord as additional insured
 - o An All Builder's Risk Policy in the amount of 100% of the contract price
 - o Comprehensive Automobile Liability with the same limits at above
 - o Indemnity Agreement - The Contractor shall indemnify, hold harmless and defend, the Owner, Smoothie King Franchises Inc., the Landlord, and the Architect against liability arising from operations under the terms of the contract.

06000 **Wood and Plastics**

Rough Carpentry

- Blocking shall be provided at all wall mounted sinks, toilet partitions, wall cabinets, shelves, handrails, and toilet and bath accessories.

Architectural Millwork

- All finished millwork is to be provided by separate vendor.
- Contractor to confirm with Owner as to responsibility of installation of finished millwork.

07000 **Thermal & Moisture Protection**

Fire-stopping

- Contractor shall be responsible for any fire-stopping necessary to ensure demising, interior, and exterior wall assemblies meet all applicable codes.

Roof Penetrations

- Contractor shall contract the Landlord's roofer to provide all roof penetrations while maintaining Landlord's roof warranty.
- Contractor to provide any roof penetrations necessary for complete installation of all plumbing and equipment (i.e. installation of refrigerant lines for ice maker condenser, bathroom vents, plumbing vents, etc.)
- Sealants and Caulking
- All millwork must be sealed with a restaurant compatible clear silicone sealant at countertops, food zone areas, and wall intersections. Trade installing millwork is responsible for the completion of this work. See Architectural Millwork.

09000 **Finishes**

Non-Structural Metal Framing

- Spacing for wall framing shall not exceed 16 inches on center for ceilings and 16 inches on center for walls.
- Walls which do not fully extend to underside of structure shall have cross bracing to ensure proper support.

Gypsum Board

- Screws shall be spaced 7 inches on center along edges and at ceilings, 8 inches on center for walls, and 4 inches on center at all wet areas.
- Wall finishes to receive paint shall be completed to a Level 4 finish.

Floor Tile

- Contractor shall level floor and prepare flooring to receive vinyl or ceramic floor tile in accordance to manufacturer's instructions.

Acoustical Panel Ceilings

- Do not install acoustical ceiling tiles until building is enclosed, sufficient heat and cooling is provided for removal of excess humidity, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- Maintain uniform temperature of minimum 60 degrees F and humidity of less than 40 percent during and after installation of acoustical panel ceiling tiles.

Interior Paint

- Interior wall paint shall be an eggshell finish.
- Interior wall paint shall be applied so as to achieve a light 'orange peel' texture.
- Care should be taken to ensure intersections of differing paint colors or other materials are 'cut in' straight.
- All exposed conduit, unistrut, and allthread at ceiling fixtures and canopy shall be painted black.

10000 **Specialties**

Fire Extinguishers

- Contractor shall provide and locate and tag fire extinguishers as required by local jurisdictions.

15000 **Mechanical & Plumbing**

Heating, Ventilation, and Air Conditioning System

- Supply air diffusers, grills, and registers shall be placed to provide even distribution of air.
- A return air grill shall be placed in the service area ceiling. A full size filter is to be installed in the return grille, accessible from the service area.
- Thermostats shall be one stage heat, one stage cooling thermostat with manual change over. Thermostats are to be mounted at locations near return air grilles for each unit. Clear locked cover shall be specified for each thermostat. Thermostat locations shall be coordinated with fixtures and equipment. Avoid locating thermostats close to exterior entrances, in direct sunlight, high traffic areas, or heat producing equipment.

Exhaust Fan

- Restroom exhaust fan shall be located above toilets, vented to the exterior and switched to the light.

Plumbing Service

- All utilities are to be separately metered.
- Back flow preventers shall be provided on the water supply main as it enters the store and/or as required by code.

Water Filter

- Water filter is installed in the cold water line leading to the ice maker and the water spigot at blender sink
- Water filter shall be installed at 60" above finished floor at rear hand sink.

Restrooms

- Restrooms shall comply with Americans with Disabilities Act and local codes.
- Lavatory shall be white, wall hung with faucet complying with ADA. Exposed water lines below lavatory shall be insulated.
- Toilet shall be white, elongated, take type with solid plastic, open front seat cover.

Mop Sink

- Mop sink shall be floor level 24" x 24" plastic with 6" minimum lip.
- Mop sink shall be provided with an approved backflow prevention device.

Equipment

- Contractor to complete all plumbing for sinks and equipment (including installation of water filtration system)
- Provide indirect drains for all equipment requiring drainage via hub drains or floor sinks (as required by code), located under equipment if possible while ensuring accessibility for cleaning.
- Make every effort to combine equipment into a single floor sink (or hub drain) when possible to reduce cost of construction and maintenance.

Water Heater

- Water heater shall be sized as required by code.

Ice Machine

- Ice machine is to receive 1/2 " filtered water line.
- Condensate/drain line is to be plumbed to indirect drain.

Fire Sprinkler System (if required)

- Fire sprinklers work is to be performed by a state certified agent in accordance with NFPA 13. If required, use Landlord's sprinkler company for this scope of work.
- Sprinkler heads are to be centered in ceiling tiles and added or removed to accommodate the lighting, mechanical diffusers, soffits, and merchandise bays.

16000 **Electrical**

- Electrical Service
- All utilities are to be separately metered.
- 200 Amp/ 42 breaker (120/208 Volts/3-phase) electrical service panel is to be located in the prep area with clearance requirements dictated by NEC. (unless already existing and in good working order)
- The electrical service panel shall have a directory located on the door noting breaker numbers, ratings, and loads served.

Wiring

- Contractor to complete all electrical routing and field joint connections within cabinet modules (cabinets are provided with wiring harness which requires routing and connections)

- Outlets and Cover plates
- All outlets, switches and cover plates are to be white, unless otherwise noted.

- GFCI (Ground Fault Circuit Interrupting) outlets are to be located at all wet areas as per NEC.

Lighting

- Night lights, emergency lights, and exit lights shall be equipped with a battery backup per code and shall be wired into a separate circuit which shall be permanently locked using a breaker lock service.
- Rear exit door is to have a switched exterior light if dusk to dawn security lighting is not provided at the rear of the space.

Exterior Signage

- A timer is required for all exterior signage unless stated otherwise in Landlords design and signage criteria.
- Circuits for exterior signage to have breaker locks.

Telephone and Equipment

- All equipment shall be grounded in accordance with local regulations and the National Electric Code.
- Provide 1" conduit from blank junction box to 8" above wall at location designated on drawings with telephone symbol. Conduit for service counter telephone is to be run under slab.
- Provide conduits and/or electrical as necessary for Drive Thru menu board, speaker post, and vehicle detection loop as noted (if applicable).
- Provide Cat 5 plenum rated cable as follows:
 - o From office desk to POS at drive thru counter (if applicable)
 - o From office desk to POS at order counter
 - o From office desk to POS at pickup counter



SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
LEES SUMMIT, MO 64086

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date 1/4/22

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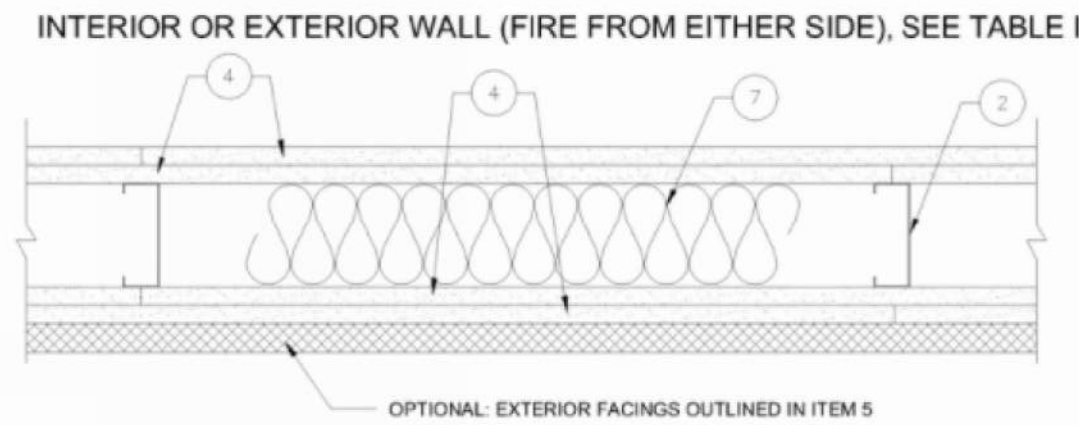
A-1

SPECIFICATIONS

- Design No. U425
- June 10, 2021

- Bearing Wall Rating — 3/4 Hr., 1, 1-1/2 or 2 Hr.
- (See Items 2, 4 and 5)
- This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



- 1. Steel Floor and Ceiling Tracks — (Not Shown) — Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 MSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.
- 2. Steel Studs — Min 3-1/2 in. wide, No. 20 MSG (0.0329 in., min bare metal thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
- 2B. Steel Studs — Framing Members* — In lieu of Item 2 — Min 3-5/8 in. wide, No. 20 MSG (0.036 in. min. thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
- BAILEY METAL PRODUCTS LTD
- 3. Lateral Support Members — (Not Shown) — Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.
- 4. Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Gypsum board bearing the UL Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally unless specified below. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

TABLE 1 Gypsum Board Rating (Fire From Either Side)			
Rating	Thickness (in.)	Number of Layers	Percent of Design Load
1/2 hr	1/2	3	100
1	5/8	3	100
1-1/2	5/8	3	100
2	5/8	3	100
2-1/2	5/8	3	100
3	5/8	3	100

- 4B. Gypsum Board* — (As an alternate to Item 4) — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers on interior walls (multilayer systems) staggered a min of 12 in.
- GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG
- NATIONAL GYPSUM CO — Type FSW-6.
- CERTAINTEED GYPSUM INC — GlasRoc

- 6. Fasteners — (Not Shown) — Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long. Fasteners when Item 4G is used: First layer #6 x 2 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Second layer #6 x 4 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Horizontal joints to be staggered 12 in. between layers.

- 7. Batts and Blankets* — Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity.
- See Batts and Blankets* (BZJZ) Category for names of Classified companies.

- 8. Joint Tape and Compound — (Not Shown) — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer.

- 9. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws.



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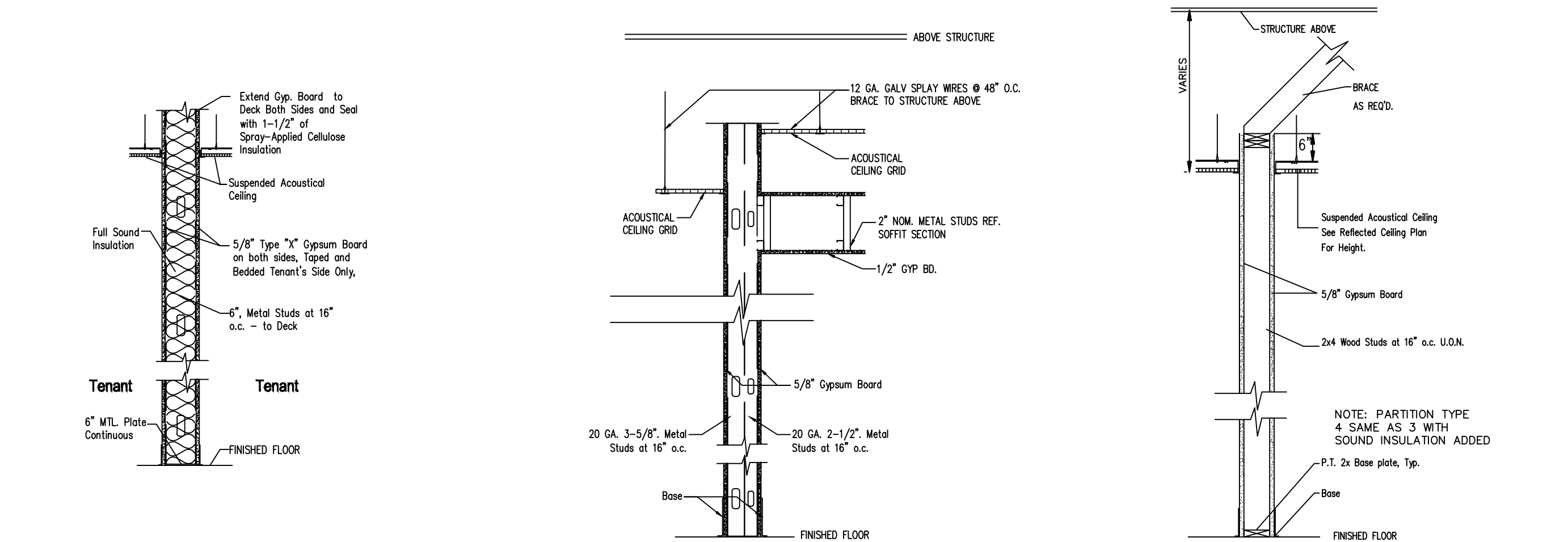
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1 01.10.22 City Comments

UL ASSEMBLY

sheet number

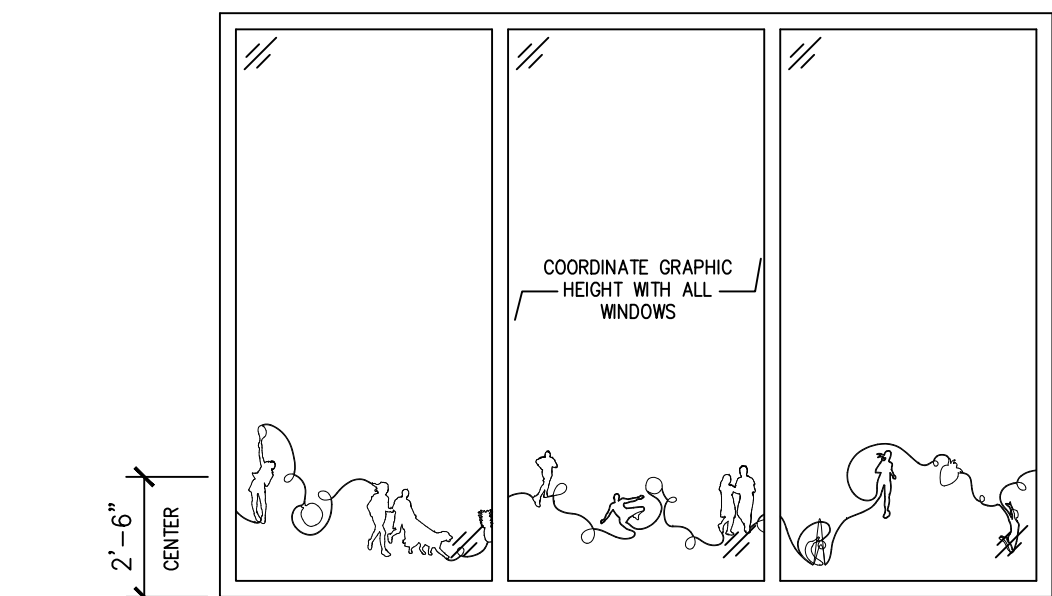
A-1a



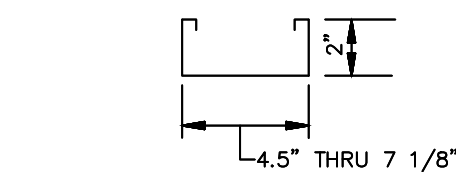
ONE HOUR FIRE RATED WALL,
UL DESIGN #U425
WALL TYPE 2a & 2b
SCALE" N.T.S.

TYP. INTERIOR BUMPED
OUT FURRED WALL
SCALE" N.T.S.

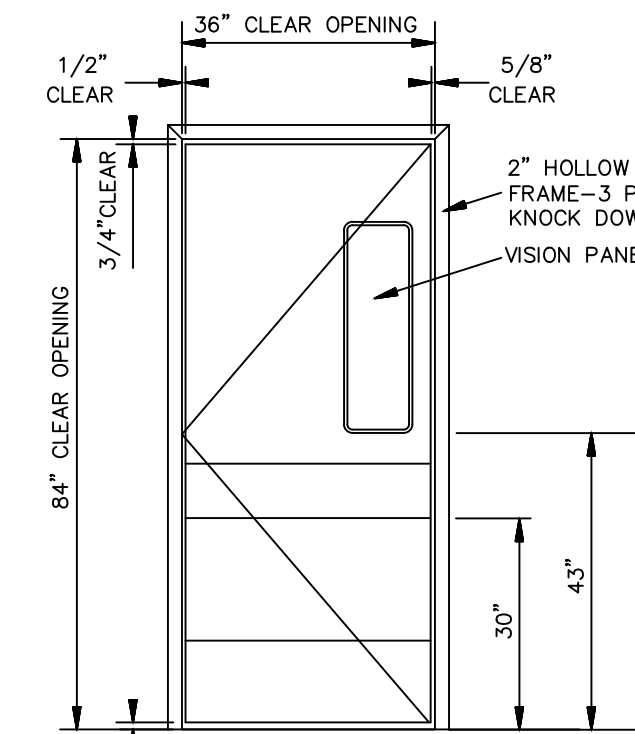
INT. WALL SECTION WALL TYPE 3 & 4
SCALE" N.T.S.



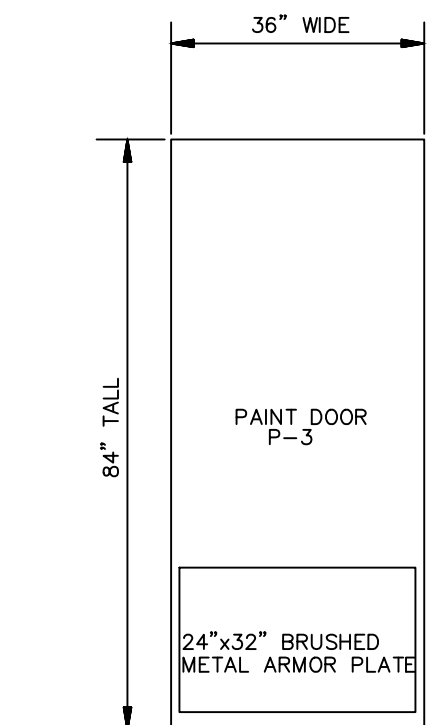
TYPICAL WINDOW GRAPHICS
SCALE" N.T.S.



2" DOOR FRAME DETAIL

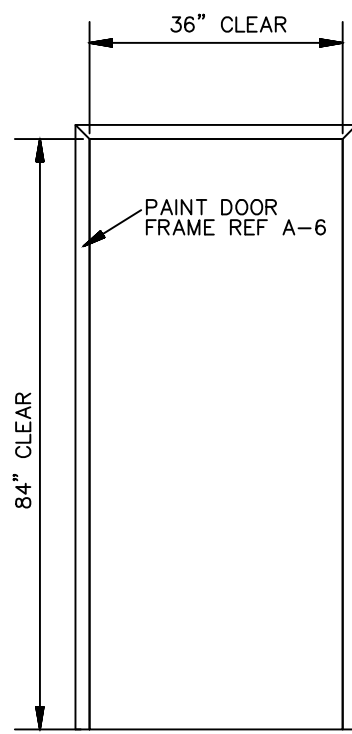


TYP. 3'x7' HM
SWING DOOR & FRAME

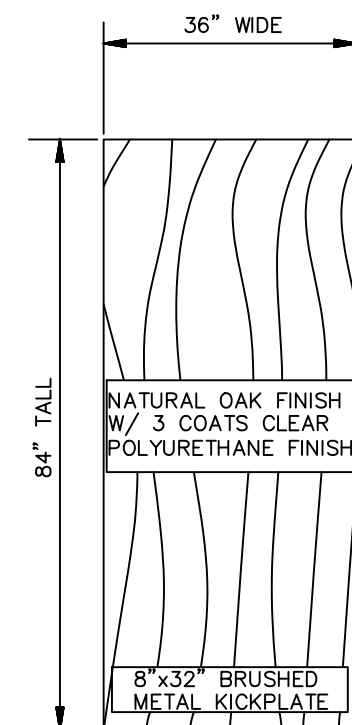


TYP. 3'x7' HM
DOOR

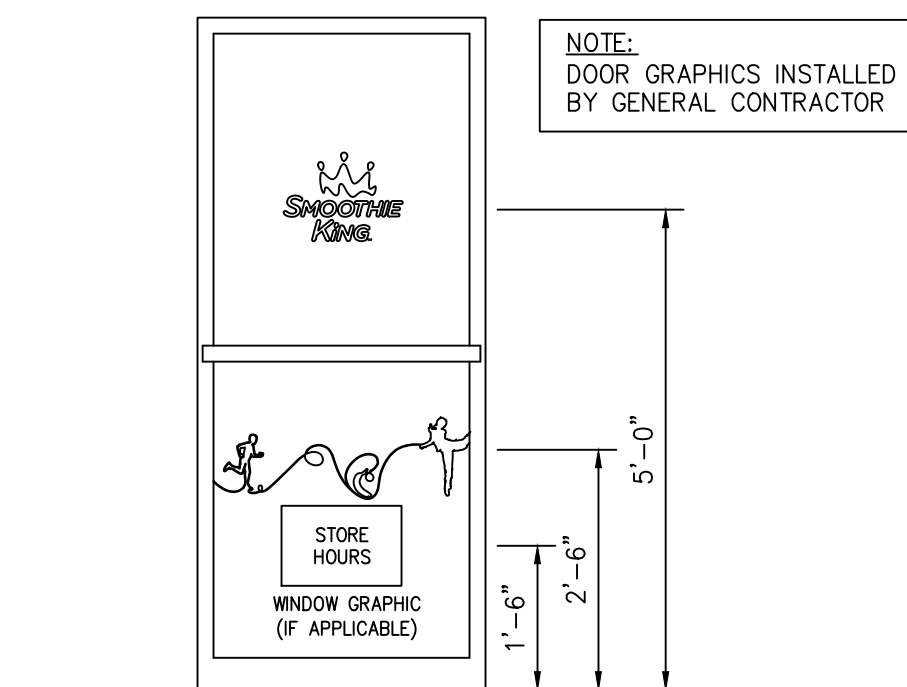
DOOR DETAILS



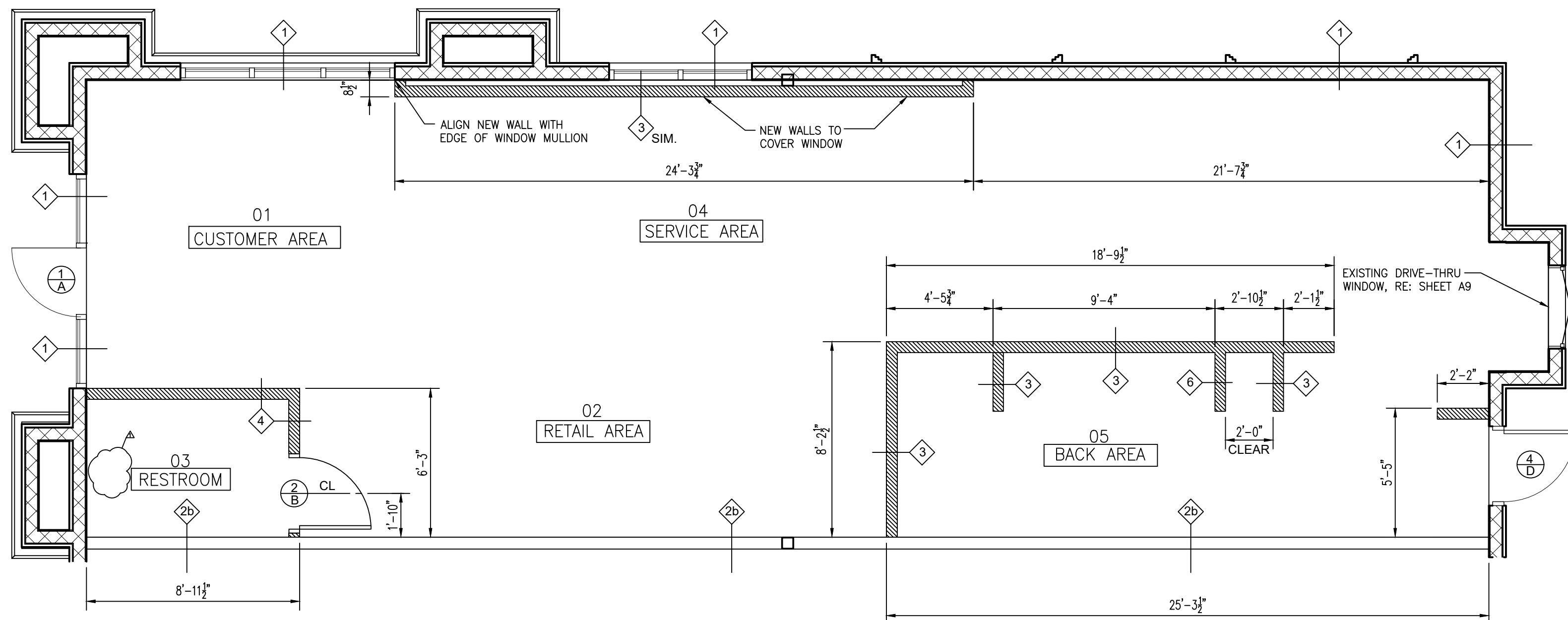
TYP. 3'x7' HM
DOOR FRAME



TYP. 3'x7'
SWC DOOR



FRONT DOOR GRAPHICS
SCALE" N.T.S.



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

DOOR SCHEDULE						
MARK	PROVIDED BY	INSTALL BY	DOOR	FRAME	REMARKS	
SIZE (W x H x T)	MATERIAL	MATERIAL	THRESH-OLD			
1	G.C.	G.C.	NEW DOOR (2)3'-0" X 7'-0"	TEMPERED GLASS, STORE FRONT	ALUM.	LOCATE NEW DOOR AS SHOWN ON PLAN. SEE DETAIL 3/A-2 FOR DOOR GRAPHICS
2	G.C.	G.C.	NEW 3'-0" X 7'-0"	SOLID CORE FLUSH OAK VENEER DOOR	HOLLOW METAL TO BE PAINTED	USED AT RESTROOM AND OFFICE
3			NOT USED			
4			EXISTING DOOR (2)3'-0" X 7'-0"	HOLLOW CORE METAL TO BE PAINTED	HOLLOW METAL TO BE PAINTED	ALUM.
5			EXISTING 3'-0" X 7'-0"	SOLID CORE FLUSH OAK VENEER DOOR	HOLLOW METAL TO BE PAINTED	EXISTING DOOR - REPLACE DOOR IF EXISTING DOOR IS NOT A SOLID CORE FLUSH OAK DOOR W/ OAK VANEER
HANDICAP ACCESSIBLE GUIDELINES: 4.27.4 OPERATION CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N).						

HARDWARE SCHEDULE			DESCRIPTION
MARK	PROVIDED BY	INSTALL BY	
A	ZEE	G.C.	CLOSER, MORTISED CYLINDER WITH INTERCHANGEABLE CORE COORDINATE WITH LOCKSET MECHANISM. OPERATE FROM OUTSIDE BY KEY AND INSIDE BY LATCH.
B	G.C.	G.C.	1-1/2 PAIR HINGES, MUTES, PRIVACY, CLOSER, AND FLOOR STOP. 8" TALL BY 32" WIDE BRUSHED METAL KICK PLATE (BOTH SIDES)
C			NOT USED
D	G.C.	G.C.	1-1/2 PAIR HINGES, MUTES, LOCKSET, CLOSER AND FLOOR STOP. REKEY AS REQUIRED BY TENANT. PROVIDE HARDWARE WITH PANIC DEVICE AND OUTSIDE LEVER WHERE REQUIRED-PROVIDE PEEP HOLE. 24" TALL BY 32" WIDE BRUSHED METAL ARMOR PLATE - INSIDE OF DOOR
E	G.C.	G.C.	1-1/2 PAIR HINGES, MUTES, LOCKSET, AND FLOOR STOP.
F	ZEE	G.C.	EXISTING HARDWARE TO REMAIN AS IS

PARTITION TYPES		DOOR HARDWARE INFORMATION
MARK	DESCRIPTION	
1	EXTERIOR WALL (G.C. RESPONSIBLE FOR INSULATION AND SHEETROCK 6" ABOVE CEILING IN ANY GIVEN ROOM)	FLOOR STOP 438826D
2	NEW 1-HR PARTITION TO BE CONSTRUCTED TO UNDERSIDE OF EXISTING ROOF DECK. UL #425. SEE DETAIL 4/A2.	EACH DOOR 3 HINGES CB1960 4-1/2 X 4-1/2 NRP-US32D
3	1-HR PARTITION EXISTING SEE DETAIL 7/A2.	EXTERIOR DOOR 3 MUTES
4	NEW STANDARD INTERIOR WALL TO EXTEND 6" ABOVE LAY IN CEILING WITHOUT INSULATION. BRACE TO STRUCTURE ABOVE. REF DETAIL 5/A-2	WEATHERSTRIPPING, NATIONAL GUARD 894VW ALUMINUM OR EQUAL
5	NEW STANDARD INTERIOR WALL TO EXTEND 6" ABOVE LAY IN CEILING WITH INSULATION. BRACE TO STRUCTURE ABOVE.	WEATHERSTRIPPING, NATIONAL GUARD 160 NRP
6	FINISHED FURRED OUT 2 1/2" WALL TO EXTEND 6" ABOVE LAY IN CEILING. BRACE TO STRUCTURE ABOVE. REF DTL 6/A-2	PRIVACY SET-SARGENT 7065/ LL LEVER / US26D OR EQUAL
7	NEW STANDARD INTERIOR WALL TO EXTEND TO HOT WATER HEATER SHELF. REF DETAIL 6/A-7	LOCKSET-SARGENT 7005/ LL LEVER / US26D OR EQUAL
8	EXISTING INTERIOR WALL TO REMAIN AND BE REPAIRED AS NECESSARY TO RECEIVE NEW FINISHES.	CLOSER AT EXTERIOR DOOR TO BE SARGENT 1400 SERIES 8243/LL LEVER US32D OR EQUAL
*** WHERE PLUMBING IS SHOWN, CONTRACTOR TO ALLOW FOR SPECIAL WALL THICKNESS REQUIRED FOR SAME		CLOSER AT INTERIOR DOOR TO BE SARGENT 1431 OR EQUAL.
FLOOR PLAN LEGEND		
MARK	DESCRIPTION	
1	NOT IN CONTACT	
2	NEW WALL	
3	EXISTING WALL TO REMAIN	
4	DEMO WALL	

CONSTRUCTION NOTES

- DIMENSIONS ON FLOOR PLANS ARE FINISH WALL SURFACE TO FINISH WALL SURFACE.
- VERTICAL DIMENSIONS AND NUMERICAL ELEVATIONS ARE TO THE FINISH SURFACE.
- METAL STUD PARTITIONS SHALL HAVE REINFORCEMENT FOR ATTACHMENT OF WALL MOUNTED ITEMS AS REQUIRED, AND SHALL BE BRACED TO STRUCTURE ABOVE FOR HEAVY ITEMS AS REQUIRED FOR SUPPORT. IF WATER HEATER IS SCHEDULED TO BE INSTALLED OFF THE FLOOR, WALLS TO HAVE 16 GA, 12" STUD ON CENTER TO ACCOMMODATE THE WATER HEATER. PROVIDE 5/8" TYPE "X" GREEN BOARD AT WET LOCATIONS.
- DIMENSIONS MARKED "CLEAR" INDICATE A MINIMUM CLEARANCE THAT MUST BE MAINTAINED. ANY DISCREPANCIES MUST BE REPORTED TO SMOOTHIE KING BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR TO PROVIDE DOORS, FRAMES, STOPS, MUTES, AND BUTTS THROUGHOUT FOR A COMPLETE INSTALLATION.
- INFORMATION CONTAINED IN THESE DOCUMENTS IS BASED ON EXISTING DOCUMENTS AND LISTED FIELD MEASUREMENTS AND THERE MAY BE REQUIRED ADJUSTMENTS AND/ OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS. SMOOTHIE KING SHALL APPROVE ADJUSTMENTS IN ACCORDANCE WITH DESIGN INTENT. IN NO CASE SHALL SAID ADJUSTMENTS REDUCE THE QUALITY OF CONSTRUCTIONS OR REDUCE THE PROJECTS CONFORMANCE TO STATE AND LOCAL CODES AND ORDINANCES.
- IF EXISTING FIREPROOFING OR FIRE ASSEMBLIES ARE DAMAGED DURING CONSTRUCTIONS, THEY SHALL BE RESTORED TO CONFORM TO ORIGINAL FIRE PROTECTION REQUIREMENTS.
- VERIFY THAT CONSTRUCTION OF EXISTING WALLS, FLOORS AND OPENINGS WITHIN THE PROJECT SCOPE MEET THE FIRE PROTECTION RATING DESIGNATED ON THESE DRAWINGS. MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO BRING SAID WALLS, FLOORS, DOORS, DUCT PENETRATIONS, ETC. UP TO DESIGNATED RATING.
- DO NOT SCALE DRAWINGS. IF DRAWINGS ARE IN QUESTIONS, OBTAIN CLARIFICATION FROM SMOOTHIE KING, DESIGN DEPT., PRIOR TO CONTINUING CONSTRUCTION.
- WORK SHALL COMPLY WITH THE A.D.A. REQUIREMENTS. CONSULT ARCHITECT IF MOUNTING HEIGHTS AND CLEARANCES ARE IN DOUBT.
- CONTRACTOR TO REMOVE OLD FLOORING, IF APPLICABLE. FLASH PATCH AREAS WHERE FLOOR IS NOT LEVEL OR TRUE.
- ALL TELEPHONE AND COMMUNICATIONS WIRING MUST BE AIR PLENUM APPROVED OR IN CONDUIT. IF AUTOMATIC SPRINKLER SYSTEM IS EXISTING, MODIFICATIONS AND DOCUMENTATION FOR OBTAINING PERMITS IS RESPONSIBILITY OF THE CONTRACTOR. ADJUST LOCATION OF SPRINKLER HEADS AND DROPS TO ACCOMMODATE PARTITIONS AND CEILING SYSTEM, AS REQUIRED BY CODE. PROVIDE "ARM OVERS" FROM THE EXISTING BRANCH OUTLETS TO THE NEW SPRINKLER HEADS. ALL SPRINKLER WORK SHALL COMPLY WITH NFPA
- CONTRACTOR TO REPLACE ALL MISSING ESCUTCHEON PLATES. NEW PLATES TO MATCH EXISTING.
- IF HVAC IS EXISTING, RELOCATE DUCTWORK TO CONFORM TO REVISED WALL LOCATIONS. FURNISH AND INSTALL NEW DIFFUSERS AND RETURN GRILLES, AS REQUIRED. CONTRACTOR TO RE-BALANCE HVAC SYSTEM.
- MISCELLANEOUS HVAC AND PLUMBING WORK NOT SPECIFICALLY NOTED ON THE DRAWINGS SHALL COMPLY WITH THE APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- IF APPLICABLE, CONTRACTOR TO CLEAN AND REPAIR ALL EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO A NEW APPEARANCE AND GOOD WORKING CONDITION. REPLACE PLUMBING FIXTURES AND/OR TOILET ACCESSORIES NOT MEETING CURRENT A.D.A. OR LOCAL CODE REQUIREMENTS WITH FIXTURES SCHEDULED ON THIS SHEET.
- ALL 5/8"G.W.B. (MOISTURE RESISTANT IN RESTROOMS) IN THE LEASED PREMISES SHALL BE FURNISHED, INSTALLED, TAPED AND SPACKLED BY G.C.

SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
LEES SUMMIT, MO 64086

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816.581.6363

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01.10.22

project number 2021-099

date 1/4/22

issued for PERMIT

FLOOR PLAN &
DOOR SCHEDULE

sheet number

A-2

RESTROOM NOTES

THE RESTROOM LAYOUT IS BASED ON AND COMPLIES WITH THE "AMERICAN WITH DISABILITIES ACT" LATEST REGULATIONS. PLEASE NOTE THE FOLLOWING SECTIONS:

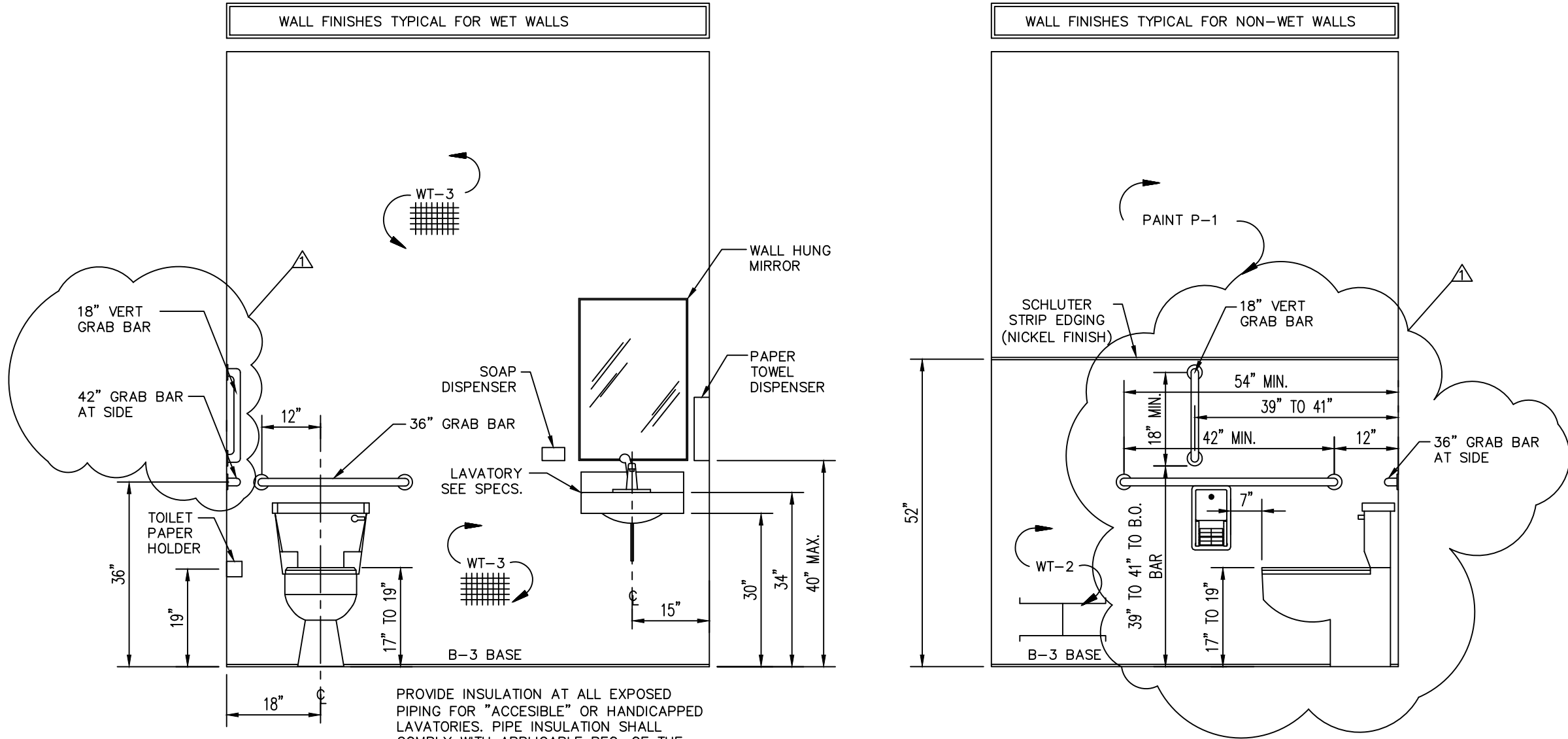
404.6.4 - EXPOSED PIPES AND SURFACES - HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

4.04.12.2 SIZE AND SPACING OF GRAB BARS & HANDRAILS. THE DIAMETER OR WIDTH OF GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1¼ IN TO 1½ IN (32 mm to 38 mm).

404.3.5 - FLUSH CONTROLS - FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH 404.13. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44" (1120 mm) ABOVE THE FLOOR.

4.04.6.5 FAUCETS - FAUCETS SHALL COMPLY WITH 4.04.13. LEVER-OPERATED PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

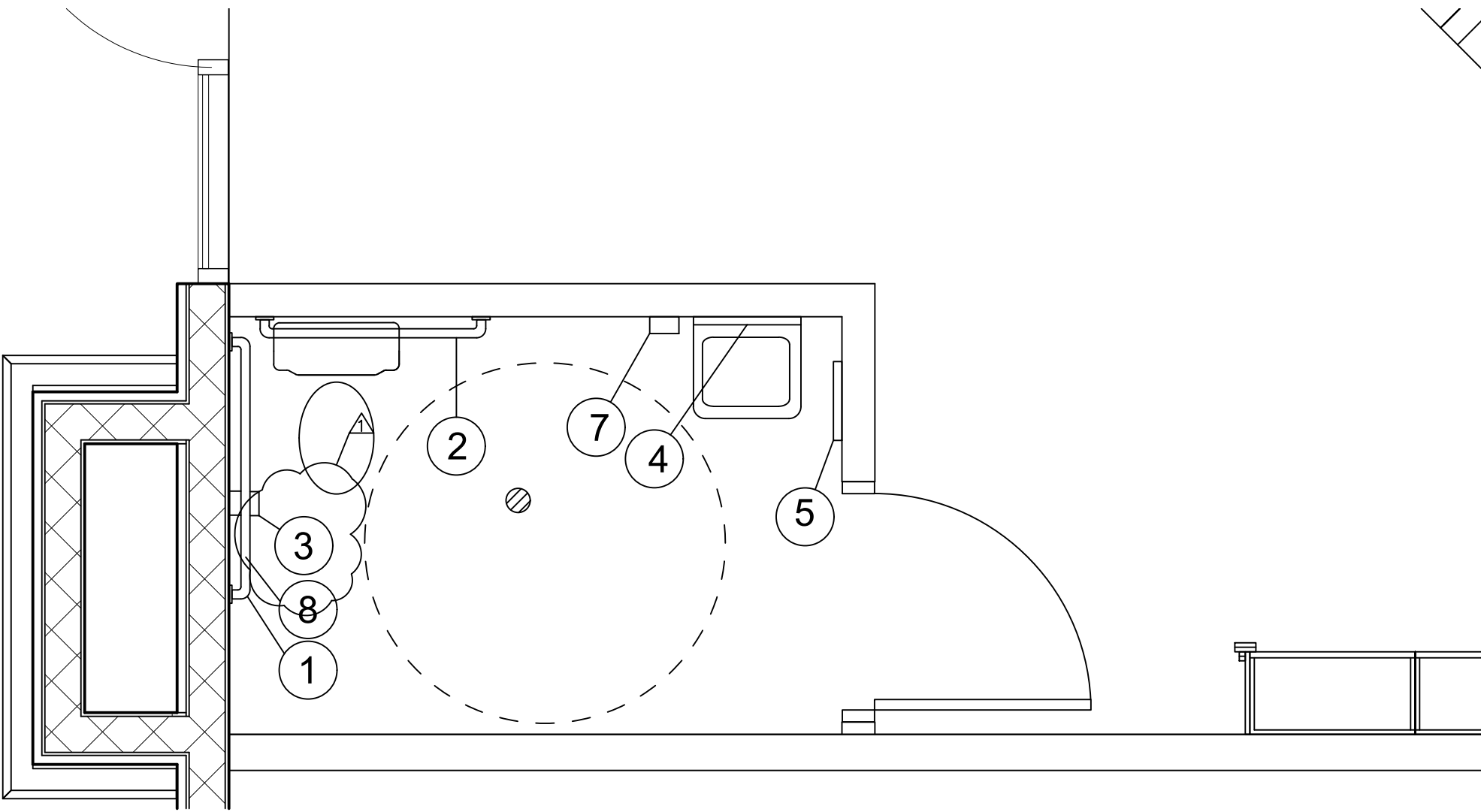
404.13 - OPERATION - CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N).



3 RESTROOM PLUMBING WALL ELEVATION
A-3 NOT TO SCALE

2 TYP. RESTROOM ELEVATION
A-3 NOT TO SCALE

TOILET ACCESSORIES						TOILET ACCESSORIES NOTES:	
MARK	QTY.	PROVIDED BY	INSTALL BY	DESCRIPTION	MANUFACTURER/ MODEL #	1. MOUNTING HEIGHTS SHALL COMPLY WITH ADA GUIDELINES. 2. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 3. PROVIDE BLOCKING IN WALLS TO RECEIVE FIXTURES AND ACCESSORIES 4. PAPER TOWEL AND LIQUID SOAP DISPENSERS SHALL BE INSTALLED AT EVERY LAVATORY AND/OR HAND SINK. 5. DISPENSERS WILL ARRIVE FROM LOCAL PFG DISTRIBUTION CENTER. CONFIRM DISPENSERS ARE INCLUDED WITH YOUR PHASE 1 ORDER. DISPENSERS WILL BE SHIPPED WITH THE PHASE 1. CHEMICAL/CLEANING PRODUCTS FROM PFG.	
1	1	G.C.	G.C.	42" GRAB BAR	BOBRICK B-6806 SERIES		
2	1	G.C.	G.C.	36" GRAB BAR	BOBRICK B-6806 SERIES		
3	1	G.C.	G.C.	SURFACE-MOUNTED MULTI-ROLL DISPENSER	BOBRICK B-2888		
4	1	G.C.	G.C.	FRAMED MIRROR	BOBRICK SIZE 18" X 36"		
5	2	PFG - PROVIDED WITH FIRST PFG DELIVERY	G.C.	SURFACE MOUNTED SS PAPER TOWEL DISPENSER	TORK - MODEL # 461002 PFG ITEM # 540593		
6	1	PFG - PROVIDED WITH FIRST PFG DELIVERY	G.C.	SURFACE MOUNTED WHITE PAPER TOWEL DISPENSER (BACK OF HOUSE ONLY)	TORK - MODEL # 551020 PFG ITEM # 368025		
7	3	PFG - PROVIDED WITH FIRST PFG DELIVERY	G.C.	SURFACE MOUNTED LIQUID SOAP DISPENSER	SSDC - MODEL # 9222969 PFG ITEM # 584785		
8	1	G.C.	G.C.	18" VERTICAL GRAB BAR	BOBRICK B-6806 SERIES		



1 ENLARGED FLOOR PLAN
A-3 1/2" = 1'-0"



SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
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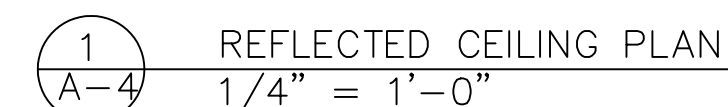
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1 01.10.22 City Comments

ENLARGED PLAN

sheet number

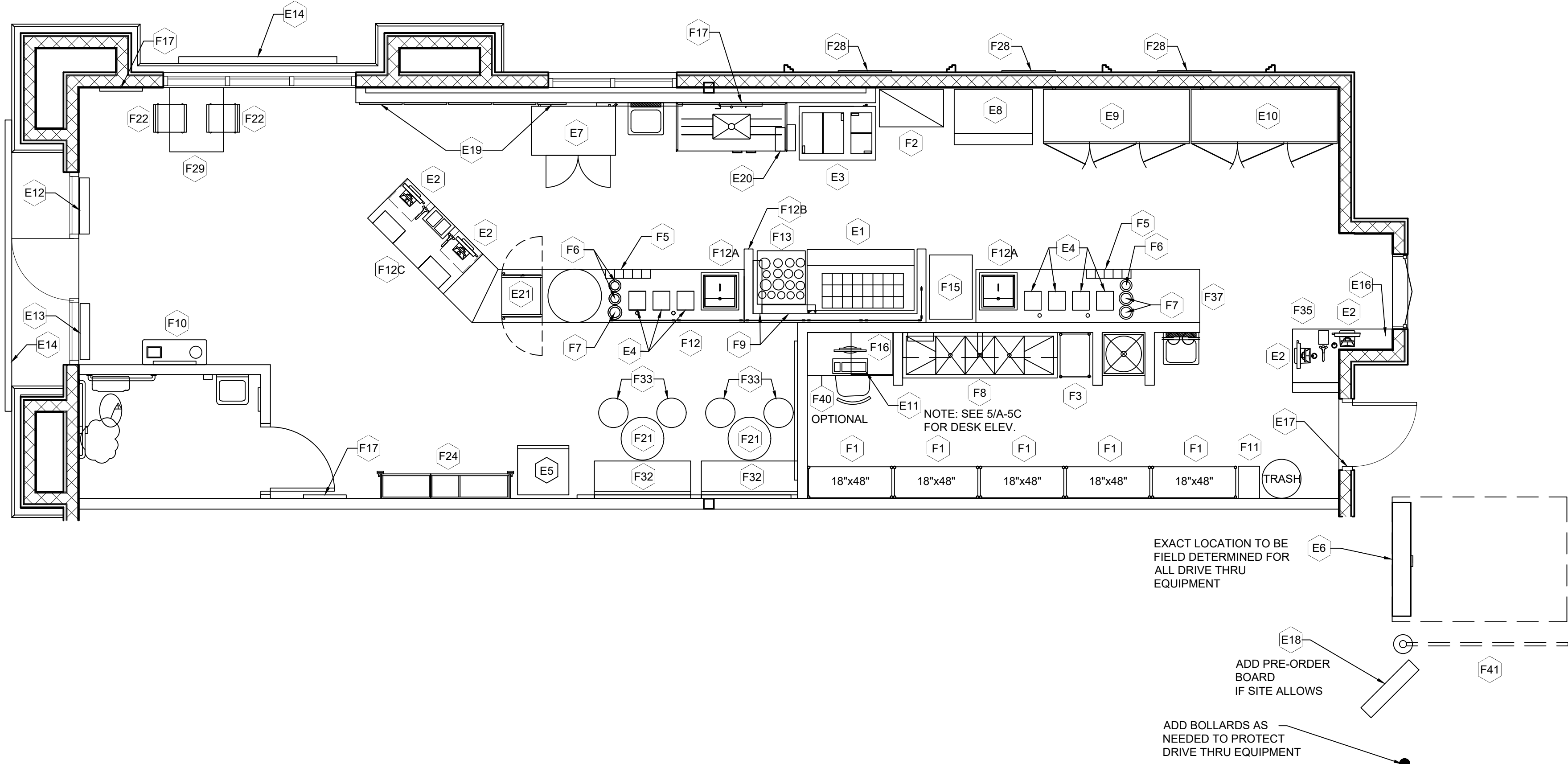
A-3



LIGHTING & MECHANICAL LEGEND				(407) 521-7330 RED CEILING TILE – CONTACT USC (TEXAS) DROP CEILING – GRID – HERB JAHN (713) 248-1675 LAM-LITE – LEE – 1-800-422-3556	
MARK	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	COMMENTS
	ZEE	LIGHTING VENDOR	G.C.	LED 4x4 RECESSED DOWN LIGHT: NORA – NHOICD-4BLE3 FIXTURE. INSTALL WITH NIO-4SND03-30X-HN/10	DIMENSIONS – 7-5/8 x 12 x 4", 4.5" x 4.5" FIXTURE
	ZEE	LIGHTING VENDOR	G.C.	JAMIE YOUNG PENDANT – CUSTOM – SCURY-SMCE PHILIPS (1) 40W A19-SHATTER PROOF LAMP – 7" RD X 9" H.	TO BE INSTALLED OVER HANDOFF AREA ABOVE BAR.
	ZEE	LIGHTING VENDOR	G.C.	LED DIRECTIONAL DOWN LIGHT: NORA – NHOICD-4BLE3 FIXTURE. INSTALL WITH NIO-4RD-30X-HN/10	DIRECTIONAL RECESSED BULKHEAD LIGHTING FOCUSED ON RETAIL CABINERY
	ZEE	LIGHTING VENDOR	G.C.	6" LED CAN LIGHTS: NORA – NHIC-27LMARAT LOW PROFILE FIXTURE. INSTALL WITH DLRS RECESSED LED DOWN LIGHT	TO BE INSTALLED WITHIN OVERHEAD SOFFITS, PERIMETER BULKHEADS & RESTROOMS
	ZEE	LIGHTING VENDOR	G.C.	2' X 2' LED PANEL: MAXLITE – MLFP22EP3535 – STANDARD WHITE LAMP 3500K	IN FRONT PREP AREA & GUEST CORRIDORS
	ZEE	LIGHTING VENDOR	G.C.	2' X 4' LED PANEL: MAXLITE – MLFP24EP3535 – STANDARD WHITE LAMP 3500K	IN BACK PREP AREA
	ZEE	LIGHTING VENDOR	G.C.	6" INTEGRATED LED CAN LIGHT: NORA – NHIC-27LMARAT LOW PROFILE FIXTURE. INSTALL WITH DLRS RECESSED LED DOWN LIGHT	TRIM CAPS TO BE PAINTED TO MATCH CANOPY
	ZEE	LIGHTING VENDOR	G.C.	LED WALL WASH – BOCA FLASHER – HFWL-HD3000K-10X60-120V-A-I-S-C – 3000K – 4' LENGTHS	VESTIBULE ACCENT LIGHTING
	ZEE	G.C.	G.C.	LED EMERGENCY EXIT SIGN – BOLT EZRXTEU2RWM-SINGLE FACE-RED-WHITE-BATTERYBACKUP	INSTALL AS SHOWN ON RCP
	ZEE	G.C.	G.C.	LED EMERGENCY LIGHT – WALL PACK – LEDR-1-SOT-HL	INSTALL AS SHOWN ON RCP. LOCATED 12" BELOW CEILING OR BULKHEAD
	ZEE	G.C.	G.C.	LED EMERGENCY EXIT & EMERGENCY COMBINATION LIGHT MODEL #LEDXTEU-SINGLE FACE-R-W-RHL	INSTALL AS SHOWN ON RCP ABOVE EXIT DOORS
	ZEE	G.C.	G.C.	SUPPLY: NUTONE NU-696N ECONOMY FAN	TO BE INSTALLED IN REST ROOM ONLY – BY G.C.
	G.C.	G.C.	G.C.	SUPPLY AIR DIFFUSER: NEW OR RELOCATED – PAINT TO MATCH CEILING.	NO PORTION OF DIFFUSER CAN BE LOCATED BELOW CEILING GRID WHEN INSTALLED
	G.C.	G.C.	G.C.	RETURN AIR GRILLE: NEW OR RELOCATED-PAINT TO MATCH CEILING	NO PORTION OF DIFFUSER CAN BE LOCATED BELOW CEILING GRID WHEN INSTALLED
	ZEE	LIGHTING VENDOR	G.C.	JUNO TRAC-MASTER WALL WASH/75HO CLOSE TO TRACK (BLACK) (T5142BL) – (2) 54W HIGH LUMEN FLUORESCENT LAMPS	AT RETAIL AREA

A-4

EQUIPMENT SCHEDULE												
MARK	QTY	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	MANU-FACTURER	MODEL #	SIZE	ELECTRICAL SPECIFICATIONS			COMMENTS
									TYPE	HEIGHT		
E1	1	ZEE	FF&E	FF&E	PREP TABLE ON CASTORS	TURBO AIR	MST-60-24 (MEGA TOP)	60.25"L X 34"D X 44"H	8.9 AMP/115V/60/1, 1/2 HP	DED.CIR./NEMA 5-15P	18" AFF	UNIT DESIGN TO HOLD FOOD AT 41°F OR BELOW
E2	4	ZEE	SKFI	MAVEN IT	POS W/ BRINK SOFTWARE	SKFI			DED.CIR./GROUND INSULATED/ISOLATED	IN CAB.		PROVIDE DATA JACKS AS NOTED;ALL POS INSTALLS TO ONLY BE INSTALLED BY MAVEN IT.
E3	1	ZEE	FF&E	FF&E	FLAT LID HORIZONTAL DIPPING FREEZER	MASTER-BILT	DC-6D	43"W X 30"D X 34"H	5.7 AMP/115V/60/1	NEMA 5-15P	18" AFF	1/4HP - ON CASTERS
E4	4*	ZEE	VITAMIX	ZEE	BLENDING STATION ADVANCE ON-COUNTER BLENDERS	VITA-MIX	36050-3813	8.5"W X 10.7"D X 18"H	15 AMP/120VAC 50/60Hz	DED. CIRCUIT, 20 AMP OUTLET, EACH UNIT	IN CAB.	WITH ADVANCE CONTAINER AND BLADE OPTIONAL ADDITIONAL BLENDERS
E5	1	ZEE	FF&E	FF&E	GLASS DOOR MERCHANDISER COOLER	TURBO AIR	TQM-22RV(B)	28 3/4"W X 27 5/8"D	7.6 AMP/115V/60/1 1/4 HP	DED.CIR./NEMA 5-15P	18" AFF	
E6	1	ZEE	HC	GC.	COMBO MENU/CANOPY W/ IMBEDDED SPEAKER POST	HOWARD COMPANY	CUSTOM	50"W X 84"W X 122" H	COORDINATE ELECTRICAL REQUIREMENTS WITH HC W/ LIGHT KIT			A-9 FOR MORE INSTALL DETAILS
E6a	0	ZEE	HC	GC.	WALL MOUNTED DRIVE-THRU MENU BOARD	HOWARD COMP.	CUSTOM	66"W X 77.75"H X 8" M. BOARD W/ 17"x48" ENHANCER ADD ON	COORDINATE ELECTRICAL REQUIREMENTS WITH HC			REF 4/A-5B & A-9 FOR MORE INSTALL DETAILS
E7	1	ZEE	FF&E	FF&E	U. C. REFRIGERATOR	TURBO AIR	JUR-48-G	47"W X 27"D X 28.75" H	4.5 AMP/115/60/1 1/4 HP	DED.CIR./NEMA 5-15P	18" AFF	
E7a	0	ZEE	FF&E	FF&E	COUNTERTOP GLASS DOOR MERCHANDISER	TRUE	QDM-05PT-S-HC-LD	24"W X 24"D X 37" H	2.7 AMP/115/60/1 1/5 HP	DED.CIR./NEMA 5-15P	IN CAB.	
E8	1	ZEE	FF&E	G.C.	ICE CUBER MACHINE	HOSHIZAKI	KM-660MAJ	22"W X27.5"D X37.5"H	115V/60/1, 20 AMP HACR BREAKER SIZE. (3 WIRE W/ DEDICATED NEUTRAL FOR 115V)			REF ICE MACHINE NOTE ON A-5 - ALSO SEE PLUMBING REQUIREMENTS ON SHEET A-3 AT BOTTOM OF PLUMBING SCHEDULE/ 1/2" FILTERED WATER LINE
	1	ZEE	FF&E	FF&E /G.C.	ICE STORAGE BIN	HOSHIZAKI	B-700PF	44"W X 32.5"D X 46"H	--	--	3/4" FPT DRAIN	
E9	1	ZEE	FF&E	FF&E	REACH-IN REFRIGERATOR ON CASTORS	TURBO AIR	TSR-72SD	81 7/8"W X 30 3/8"D X 78.25"H	11.3 AMP/115V/60/1 1/2 HP	DED.CIR./NEMA 5-15P	12" AFF	
E10	1	ZEE	FF&E	FF&E	REACH-IN FREEZER ON CASTORS	TURBO AIR	TSF-72SD	81 7/8"W X 30 3/8"D X 78.25"H	115/ 60/ 1 12.7 AMP - 1 1/2" HP - DED. CIR. - NEMA 5-20P		12" AFF	
E11	1	ZEE	ZEE	ZEE	PERSONAL COMPUTER				DED.CIR/GROUND INSULATED/ AND ISOLATED DATA/PHONE JACK	18" AFF		
E12	1	ZEE	COMET SIGNS	G.C.	WINDOW - SMOOTHIE KING SIGN	COMET SIGNS	"SMOOTHIE KING"		4 AMP	DUPLEX OUTLET	CLG. HGT	OBTAIN APPROVAL FROM LANDLORD AND LOCAL CITY DEPT. BEFORE ORDERING. (972-870-1594)
E13	1	ZEE	HC	G.C.	"OPEN" SIGN	HOWARD COMP.	"OPEN"		4 AMP	DUPLEX OUTLET	CLG. HGT.	OBTAIN APPROVAL FROM CORPORATE, LANDLORD AND LOCAL CITY DEPT. BEFORE ORDERING. (howardskstore.com)
E14	TBD	ZEE	TBD	TBD	EXTERIOR SIGNAGE	EXTERIOR SIGN VENDOR	TBD	TBD	20 AMP	DEDICATED CIRCUIT J-BOX	SEE NOTE	OBTAIN APPROVAL FROM LANDLORD AND LOCAL CITY DEPT. BEFORE ORDERING AND PLACING SIGNAGE (MUST HAVE APPROVED SIGNAGE DRAWINGS FROM SK DESIGN DEPARTMENT)
E15	1	ZEE	ZEE	c3ms MEDIA	STANDARD MUSIC PACKAGE: SPEAKERS, 1 SATELLITE DISH, 1 AMPLIFIER & RECEIVER	c3ms MEDIA		6"Ø 70-VOLT CEILING SPEAKER				SPEAKER, COVERS AND TRANSFORMERS- LOCATE BY VENDOR - MATCH CEILING COLOR
E16	1	ZEE	HME	HME	DRIVE THRU SPEAKER PACKAGE W/ 4 HEADSETS							CONTACT CRAIG AT 770-309-1788.
E17	1	ZEE	GC	GC	BACK DOOR ENTRY ALARM	DETEX	EAX-500		BATTERY OPERATED			ENTRY DOOR ALARM - INSTALL ON LATCH OF DOOR - MOUNTING HEIGHT TO BE COORDINATED WITH FRANCHISEE
E18	1	ZEE	HC	GC.	DRIVE THRU PRE-ORDER BOARD	HOWARD COMP.	CUSTOM	7"W X 38.5"W X 79" H	COORDINATE ELECTRICAL REQUIREMENTS WITH HC			PRE-ORDER BOARD TO BE PURCHASED AND INSTALLED IF THERE IS SPACE BEHIND THE DRIVE THRU MENU BOARD AND DOESN'T OBSTRUCT CROSSING TRAFFIC - REF A-9
E19	5	ZEE	FF&E	GC.	4 LED MENU BDS & 1 LED INSERT BOARD.	SIGN IMPORTS		4) 24"x48" BDS - (1) 15"x48" BRD CHRIS NIANJOURS - 937-291-3590	4 AMP	DUPLEX OUTLET	REF ELEV	3 DUPLEX OUTLETS MOUNTED ABOVE CEILING
E20	1	ZEE	FF&E	GC.	AUTOMATIC WATER DISPENSER	VITA-MIX	ITEM # 066032	5 1/2"W X 13 1/2"D X 8 -1/4"		DUPLEX OUTLET	18" AFF W/IN	SINGLE DUPLEX OUTLET MOUNTED WITHIN THE BLENDER CABINET. DISPENSER MOUNTED ON SS SPLASH GUARD, THE COMPRESSOR MOUNTED WITHIN BLENDER SINK CABINET. FILTERED WATER TO DISPENSER
E21	1	ZEE	FF&E	FF&E	ONLINE ORDER PICKUP REFRIGERATOR	TURBO AIR	CRT-77-2R-N	16.75"W X 16.875"D X 38.5"H	1.7 AMP/115V/60/1 1/6 HP	DED.CIR./NEMA 5-15P	18" AFF	
NOTE: THE SMOOTHIE KING "OPEN" IS AN OPTIONAL PURCHASE. HOWEVER - THIS IS CURRENTLY THE ONLY APPROVED "OPEN" SIGN THAT CAN BE PURCHASED AND INSTALLED WITHIN A SMOOTHIE KING STORE.												



FIXTURES & FURNITURE SCHEDULE						
MARK	QTY	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	SIZE
F1	5	ZEE	FF&E	FF&E	SUPPLY WIRE SHELF BY FOCUS FOOD SERVICE. MODEL#FF18__C CLASS:70, NSF RATED	REF. PLANS FOR SIZES
F2	1	ZEE	FF&E	FF&E	BANANA WIRE SHELF BY IRSG	36"W X 21"D
F3	--	--	--	--	--	--
F4	--	--	--	--	--	--
F5	2	ZEE	FF&E	FF&E	LID HOLDER BY SAM JAMAR MODEL L-TO BE DETERMINED	??" W X 5.25"D X 6-1/2"H
F6	3	ZEE	FF&E	FF&E	COUNTER MOUNT TYPE PLASTIC CUP DISPENSER	SAN JAMAR C3400-CV SERIES (PLASTIC CUP)
F7	3	ZEE	FF&E	FF&E	COUNTER MOUNT TYPE PLASTIC CUP DISPENSER	SAN JAMAR C3500-CV SERIES (PLASTIC CUP)
F8	3	ZEE	FF&E	FF&E	WALL MOUNTED WIRE SHELVING NSF RATED	ABOVE TRIPLE SINK, REF 8/A-B 14" DEEP (V.I.F.)
F9	2	ZEE	FF&E	FF&E	STAINLESS STEEL SHELF	30"W X 5"D
F10	1	ZEE	FF&E	FF&E	COUNTER TRASH BIN WITHIN CABINET	W/ INSET NAPKIN HOLDER
F11	1	ZEE	FF&E	FF&E	FLOOR MOUNTED WALL LOCKER	SPS LOCKERS -18"x12"x78" LOCKER MODEL # 440094
F12	1	ZEE	FF&E	FF&E	BLENDER COUNTER W/ ICE BIN, CUP HOLDERS, SNEEZE GUARD	INSTALLED BY FF&E PROVIDER
F12a	1	ZEE	FF&E	FF&E	CUSTOM INSULATED DROP IN ICE BIN - w/ 8" INTERIOR REDUCTION	SIZE OF BIN - 18.25"L x18.25"W X 23.25 H w/ 3/4" DRAIN
F12b	1	ZEE	FF&E	FF&E	U-SHAPED WALL W/ SOLID SURFACE TOP	--
F12c	1	ZEE	FF&E	FF&E	ORDER COUNTER	72" W PAY/ORDER COUNTER W/ INSET RETAIL CABINET
F13	1	ZEE	FF&E	FF&E	27" STAINLESS STEEL POWDER TABLE ON CASTORS	--
F14	--	--	--	--	--	--
F15	1	ZEE	FF&E	FF&E	STAINLESS STEEL WORK TABLE	36"W X 24"D ON CASTERS
F16	1	ZEE	FF&E	G.C.	SAFE DEPOSIT BOX MB27201CH-SG1 27"H X 19"W X 22"D	SAFE FITS TWO CASH DRAWERS & EQUIPPED W/ A SEPARATE LOCKING COMPARTMENT FOR DROPS- SAFE TO BE BOLTED TO THE FLOOR (BY G.C.)
F17	3	ZEE	STORE DECOR	G.C.	24" X 36" POSTER FRAME - REFERENCE ELEVATIONS	--
F18	0	ZEE	FF&E	FF&E	30"x40" WALL MOUNTED RETAIL SLATWALL	CUSTOM UNIT - REF INTERIOR ELEVATIONS - OPTIONAL
F19	0	ZEE	FF&E	FF&E	24" DIAMETER CAFE ROUND TABLE BAR HEIGHT TABLE	WHITE QUARTZ TOP
F20	0	ZEE	FF&E	FF&E	ISLAND RETAIL DISPLAY	
F21	2	ZEE	FF&E	FF&E	24" DIAMETER CAFE ROUND TABLE	WHITE QUARTZ TOP
F22	2	ZEE	FF&E	FF&E	CAFE CHAIR W/ RED SEAT	
F23	0	ZEE	FF&E	FF&E	BAR STOOL W/ RED SEAT	
F24	1	ZEE	FF&E	FF&E	RETAIL SHELVING--	REF 2/A-6 AND A-8 FOR SIZE AND BLOCKING INSTRUCTIONS
F25	0	ZEE	FF&E	FF&E	42" HIGH COMMUNITY TABLE	WHITE QUARTZ COMMUNITY TABLE
F26	3	ZEE	STORE DECOR	G.C.	84" X 36" EXT. POSTER FRAME	--
F27	1	ZEE	FF&E	FF&E	30"x36" RECTANGLE CAFE TABLE	WHITE QUARTZ TOP ADA COMPLIANT TABLE
F28	0	ZEE	FF&E	FF&E	24" DIAMETER LOUNGE ROUND TABLE	WHITE QUARTZ TOP
F29	0	ZEE	TUUCI	TUUCI	PATIO UMBRELLA, W/ STAND BURGUNDY COLOR UMBRELLA	CONTACT KATRINA AT 305-537-3360
F30	2	ZEE	FF&E	FF&E	BANQUET SEATING	54" WIDE BANQUET SEATING BENCH W/ LEGS
F31	4	ZEE	FF&E	FF&E	WHITE CYLINDER TUFFET- 16.5" DIA X 18" H	WHITE CLOTHED SITTING STOOL
F32	0	ZEE	FF&E	ZEE	LOUNGE SEATING W/ BURGUNDY COLOR SEAT	
F33	1	ZEE	FF&E	FF&E	DRIVE THRU COUNTER	WHITE QUARTZ TOP WOOD LAMINATED CABINET
F34	--	--	--	--	--	--
F35	1	ZEE	FF&E	FF&E	BACK WALL CABINET	CABINET FOR PURCHASE
F36	0	ZEE	FF&E	G.C.	ALUMINUM AND WOOD PATIO CHAIRS	
F37	0	ZEE	FF&E	G.C.	ALUMINUM PATIO TABLE	
F38	1	ZEE	FF&E	FF&E	24x48 PRE-MANUFACTURED DESK	FF&E PROVIDED DESK VS OWNER PROVIDED DESK
F39	1	ZEE	HC	G.C.	HEIGHT CLEARANCE BAR	COORD. CLEARANCE HEIGHT W/ HOWARD COMPANY (howardskstore.com)

ICE MACHINE NOTES

NOTE: ICE MACHINE WILL BE DELIVERED TO THE JOB SITE AND SET IN PLACE BY FF & E SUPPLIER. THE GENERAL CONTRACTOR'S RESPONSIBILITY IS THE FOLLOWING:

- ALL PLUMBING CONNECTIONS
- ALL ELECTRICAL CONNECTIONS
- DISCONNECT ON ROOF (IF REQ'D BY LOCAL CODES)
- G.C. SHALL CONTRACT W/ LOCAL HOSHIZAKI INSTALLER TO PROVIDE THE FOLLOWING:
 - IF REMOTE CONDENSER, SET CONDENSER ON ROOF IF REMOTE UNIT (PLACE ON PLATFORM & TIE-DOWN IF REQ'D. BY LOCAL CODES)
 - RUN REFRIGERANT LINES FROM ICE MACHINE TO ROOF TO CONDENSER.
 - START UP OF ICE MACHINE BY HOSHIZAKI CERTIFIED INSTALLER.

IF REMOTE CONDENSER - URC-5F - 115 / 60 / 1.
AMBIENT TEMP RANGE: -20 TO 122°F
VOLTAGE RANGE: 104 TO 127V



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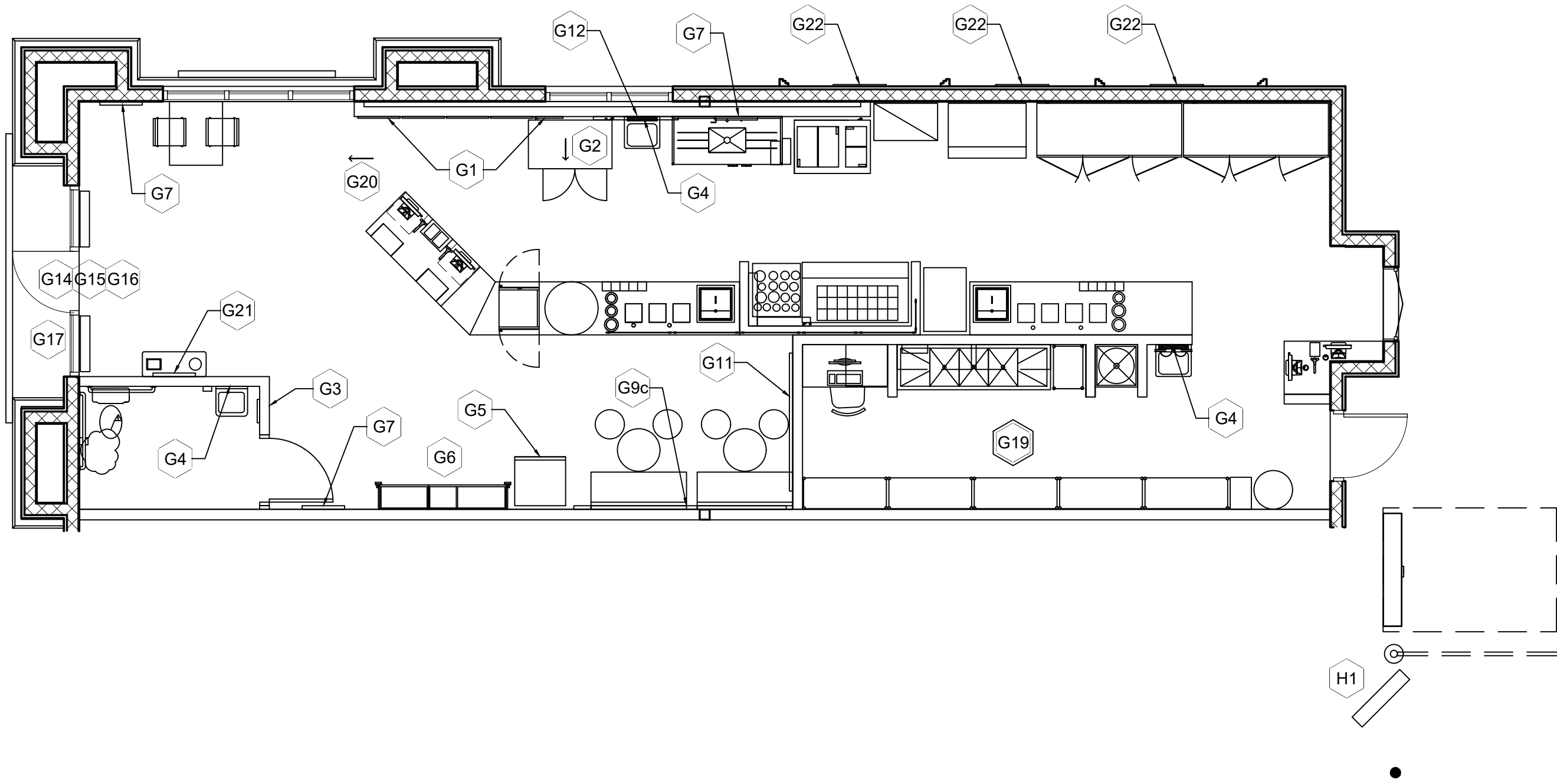
EQUIPMENT PLAN

sheet number

A-5a

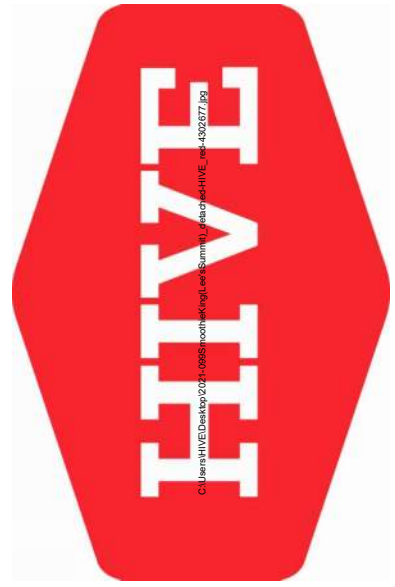
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A-5a
EQUIPMENT PLAN
1/4" = 1'-0"

REFERENCE A-5b - SK GRAPHIC LOCATIONS



1 SK GRAPHICS PLAN
A-5b 3/16" = 1'-0"

GRAPHIC SCHEDULE (GRAPHICS BY STORE DECOR)						
MARK	QTY	ORDERED BY	INSTALL BY	DESCRIPTION	SIZE	REMARKS
G1	1	ZEE	G.C.	(SET) OF MENU BOARD INSERTS W/ ENHANCER INSERT & TOP LOGO FOR MENUS	(4) 24"x48" MENU INSERTS & (1) 15"x48 ENHANCER INSERT	REF - INTERIOR ELEVATIONS FOR MENU BOARD LOCATIONS.
G2	1	ZEE	G.C.	HANGING - CUP SIZES SIGN	18" x 14"	TOP OF SIGN @ 9'-0" AFF
G3	1	ZEE	G.C.	RESTROOM SIGNAGE	12 3/4" x 6"	RESTROOM SIGNS TO BE LOCATED ON WALL BESIDE DOOR HANDLE
G4	3	ZEE	G.C.	MUST WASH HANDS	6 1/4" x 2 1/2"	RESTROOM SIGNS TO BE LOCATED 6" ABOVE PAPER TOWEL DISPENSER
G5	1	ZEE	G.C.	DISPLAY REFRIG. HEADER AND SIDE-PANEL DECALS	VARIES DEPENDENT ON MODEL# OF REFRIG.	CONFIRM MODEL # OF DISPLAY REFRIG. WHEN ORDERING ON A-5a
G6	1	ZEE	G.C.	(SET) VERTICAL SHELVING HEADERS	MEASURED IN FIELD	INSTALL ON WALL MOUNTED RETAIL CABINET DOORS
G7	3	ZEE	G.C.	INTERIOR POSTERS	36"T x 24"W	REF EQUIP. PLAN & INT. ELEV. FOR LOCATIONS
G8	0	ZEE	G.C.	BIKER GRAPHIC	144" WIDE	LOCATED IN CUSTOMER AREA - CUT OFF EXCESS INSIDE WALL CORNER (HIRE PROFESSIONAL TO INSTALL)
G9	0	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	72"W VERSION	LOCATED IN CUSTOMER AREA - REF ELEVATIONS
G9a	0	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	96"W VERSION	LOCATED IN CUSTOMER AREA - REF ELEVATIONS
G9b	1	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	120"W VERSION	LOCATED IN CUSTOMER AREA - REF ELEVATIONS
G9c	0	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	192"W VERSION	LOCATED IN CUSTOMER AREA - REF ELEVATIONS
G10	0	ZEE	G.C.	8' WHITE CROWN GRAPHIC	96" WIDE	REF ELEVATIONS FOR EXACT LOCATION
G11	1	ZEE	G.C.	6'-6" WHITE CROWN GRAPHIC - CUT TO FIT ON SITE	78" WIDE	REF INTERIOR ELEVATIONS FOR EXACT LOCATIONS
G12	1	ZEE	G.C.	RULE THE DAY GRAPHIC	4' WIDE WITH CROWN STACKED OVER "DAY"	REF INTERIOR ELEVATIONS FOR EXACT LOCATION
G13	0	ZEE	G.C.	RED WALL ACTIVE GRAPHIC	4' T x -'W	REF INTERIOR ELEVATIONS FOR EXACT LOCATIONS
G14	1	ZEE	G.C.	SK VINYL STORE HOURS GRAPHIC	15" x 10"	LOCATED ON STORE FRONT DOOR - REF 3/A-2
G15	1	ZEE	G.C.	VINYL SK LOGO	16" x 12-1/4"	LOCATED ON STORE FRONT DOOR - REF 3/A-2
G16	1	ZEE	G.C.	VINYL NO SMOKING GRAPHIC	6"X 9"	LOCATED ON STORE FRONT DOOR - REF 3/A-2
G17	1	ZEE	G.C.	WiFi GRAPHIC	VARIES	LOCATED ON STOREFRONT GLAZING - COORDINATE W/ ZEE
G18	0	ZEE	G.C.	RED WINDOW ACTIVE GRAPHIC	1'-8"T x -'W	LOCATED ON STOREFRONT GLAZING - REF 8/A-2 TYP.
G19	1	ZEE	G.C.	(KIT) SK LABEL KIT	VARIES	COORDINATE W/ SK OPENING SUPPORT FOR PLACEMENT
G20	1	ZEE	G.C.	BEGIN HERE SIGN		TOP OF SIGN @ 9'-0" AFF
G21	1	ZEE	G.C.	MAGNETIC MARKER BOARD	24"x36"	REF ELEVATIONS - BTM OF CHALK BOARD AT 4' AFF
G22	3	ZEE	G.C.	EXTERIOR POSTERS	48"T x 36"W	EXTERIOR - BTM OF POSTER FRAMES AT 4' AFF
G23	0	ZEE	G.C.	4' TALL ACTIVE STENCIL GRAPHIC	VARIES	REF EXTERIOR ELEVATIONS FOR EXACT LOCATIONS - PAINT P-2A
G24	0	ZEE	G.C.	ENTRY VESTIBULE GRAPHIC	78" x 222"	LOCATED IN ENTRY VESTIBULE - CUT OFF EXCESS GRAPHIC EDGES IN FIELD- (HIRE PROFESSIONAL)
G25	0	ZEE	G.C.	CUP CABINET GRAPHIC	VARIES	CONFIRM SIZE WHEN ORDERING
GRAPHIC SCHEDULE (GRAPHICS BY HOWARD COMPANY)						
MARK	QTY	ORDERED BY	INSTALL BY	DESCRIPTION	SIZE	REMARKS
H1	1	ZEE	G.C.	PRE-ORDER MENU BOARD GRAPHIC	N/A	GRAPHIC INSERT FOR PRE-ORDER MENU BOARD SUPPLIED BY HOWARD -(www.howardskstore.com)
NOTE: REF INTERIOR ELEVATIONS ON SHEETS A-7 & A-8						
** ↑ DIRECTIONAL ARROW DENOTES SIGN ORIENTATION **						



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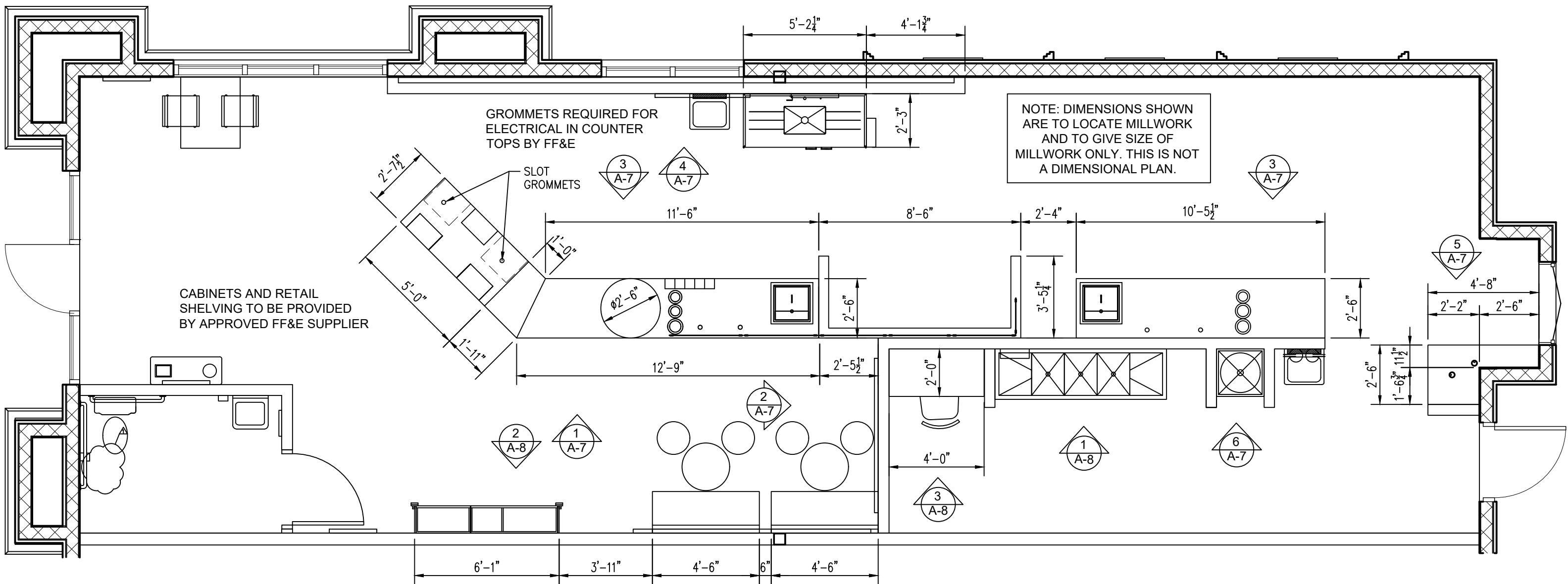
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GRAPHICS PLAN
AND SCHEDULE

sheet number

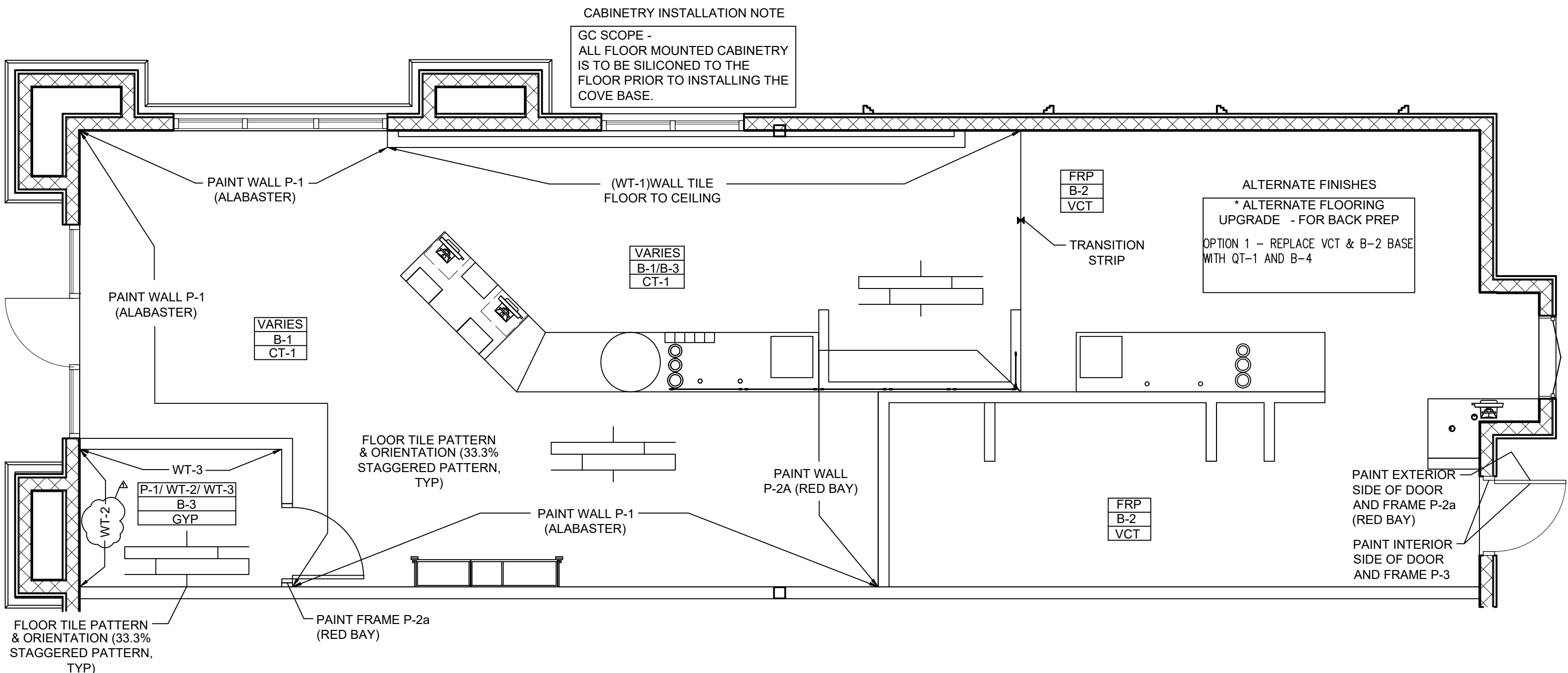
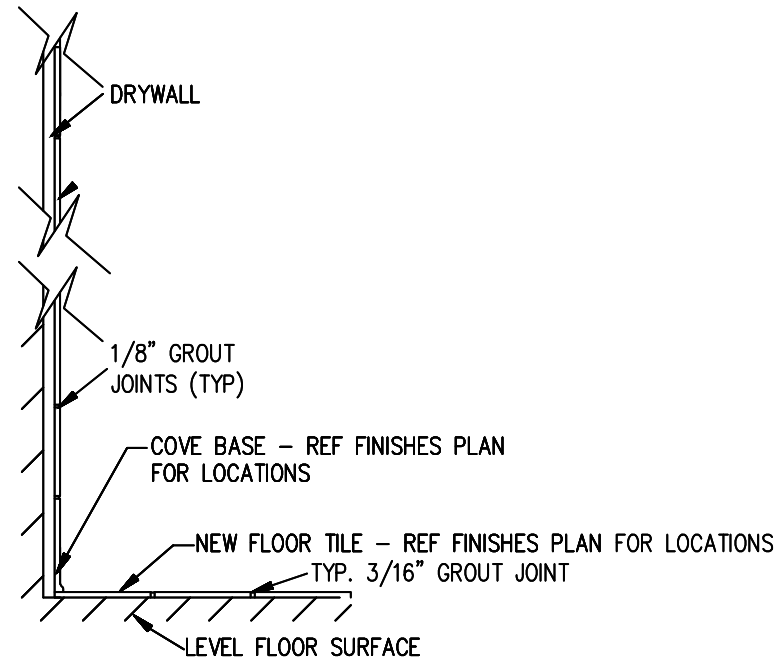
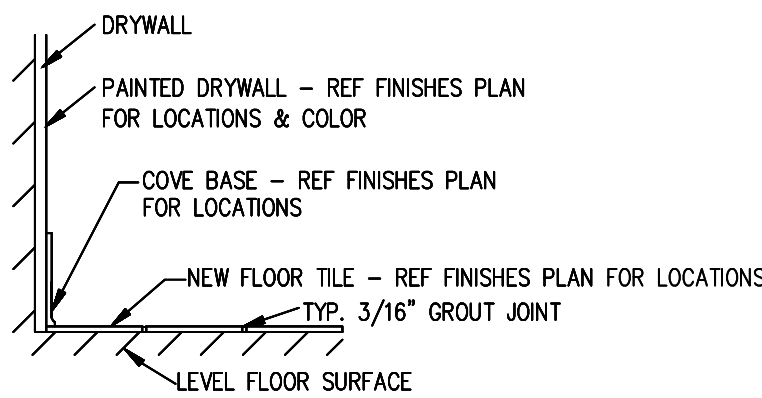
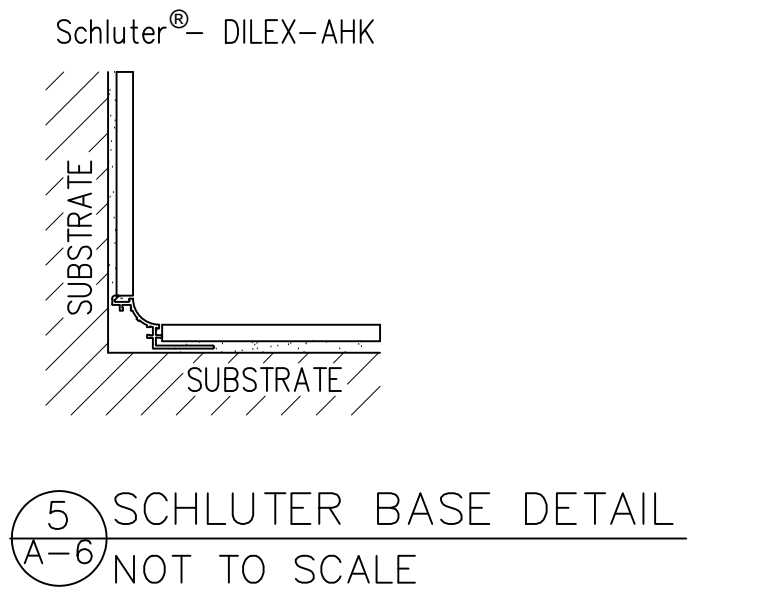
A-5b

FINISHES SCHEDULE					
MARK	PROVIDED BY	DESCRIPTION	MANU-FACTURER	COLOR AND SIZE	COMMENTS
P-1	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	ALABASTER 7008 (OFF WHITE)	USED ON ALL SOFFITS (ALL SIDES) USE ON WALLS IN RETAIL AND SERVICE AREA WHERE NOTED; USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT
P-2a	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	RED BAY 6321 (RED)	USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM THREE COATS OF PAINT- SEE PLAN FOR ART DECO WALL
P-3	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	TOTALLY TAN 6115 (MEDIUM TAN)	USED IN OFFICE; USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT
P-4	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	RUSTIC RED SW7593 LRV 8%	USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT - EXTERIOR
P-5	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS 800-933-8453	INTERACTIVE CREAM 6113 (LIGHT TAN)	USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT
WT-1	G.C.	WALL TILE GLAZED CERAMIC TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	AGELESS 4" x 12" (WHITE GLOSSY) NOTE: KITCHEN AREA	GROUT: LATICRETE PERMACOLOR SELECT GROUT: COLOR #35 MOCHA
WT-2	G.C.	WALL TILE GLAZED CERAMIC TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	AGELESS 8" x 16" (WHITE GLOSSY)	GROUT: LATICRETE PERMACOLOR SELECT GROUT: COLOR #44 BRIGHT WHITE
WT-3	G.C.	WALL TILE GLASS MOSAIC TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	BLOSSOM RED GLASS MOSAIC 12" X 12" (GLOSSY) NOTE: RESTROOM WET WALLS FLOOR TO CEILING	GROUT: LATICRETE PERMACOLOR SELECT BASE W/ LATICRETE NISSAN RED GROUT ADDITIVE
FRP	G.C.	FIBERGLASS PANEL	KEMULITE 800-435-0080	GLASBORD-P, CLASS C, .09", 85 WHITE	PERBLED EMBROSSED FINISH W/ MATCHING TRIM TO FINISH EXPOSED EDGES AND SEAMS (OR EQUAL) B.O.H. FLOOR TO CEILING
B-1	G.C.	6" H X 4" PORCELAIN TILE COVE BASE	CREATIVE MATERIALS CORPORATION 518.452.9694	RIO WHITE 3/16" GROUT JOINTS	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- FRONT OF HOUSE AND RESTROOM
B-2	G.C.	RUBBER BASE	ROPPE	6" COVE RUBBER BASE - 125 FIG	USED AT BACK ROOM AND OFFICE AREAS
B-3	G.C.	SCHLUTER COVE BASE STRIP	SCHLUTER	SCHLUTER - DILEX-AHK IS 100 ATGB	IF ACCEPTABLE BY LOCAL JURISDICTION USED ON ALL TILE WALLS (REFERENCE 1/A-6 AND ELEVATIONS)
B-4	G.C.	COVE BASE	CREATIVE MATERIALS CORPORATION	GRAY SMOOTH 6" X 6"	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- BACK OF HOUSE
CT-1	G.C.	6" X 4" AND 8" X 4" PORCELAIN FLOOR TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	RIO WHITE 3/16" GROUT JOINTS	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- FRONT OF HOUSE AND RESTROOM
VCT	G.C.	12" X 12" VINYL COMPOSITION TILE	ARMSTRONG IMPERIAL TEXTURE	STANDARD EXCELON - IMPERIAL TEXTURE - 51901 - TAUPE	USED AT BACK ROOM AND OFFICE AREAS
QT-1	G.C.	QUARRY TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	GREY ABRASIVE 6" X 6"	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- BACK OF HOUSE
FINISHES NOTES					MILLWORK NOTES
PAINT NOTES: SOURCE THROUGH LOCAL SHERWIN WILLIAMS STORES, FOR PRICING GIVE DISCOUNT CODE: 3356-9521-9 CERAMIC TILE NOTES: SOURCE THROUGH CREATIVE MATERIALS CORPORATION FOR ESTABLISHED NATIONAL ACCOUNT PRICING CONTACT ALLISON PICHE (APICHE@CREATIVEMATERIALSCORP.COM) PHONE: 518.713.5395 NOTE: (ALL DRYWALL FINISHING AT FRONT OF STORE TO BE LEVEL 4; ALL BACK OF STORE DRYWALL FINISHING TO BE AT LEVEL 2) ALL WALL FINISHES IN FRONT OF STORE AND RESTROOM SHALL BE FLOATED SMOOTH & PAINTED WITH A MEDIUM 3/8" NAP ROLLER TO CREATE A LIGHT ORANGE PEEL FINISH					1. JOINTS SHOULD HAVE PROPER FIT, WITH NO OPEN SPACE AT THE JOINTS. TOP EDGES OF COUNTER TOP JOINTS SHOULD BE CLEAR SILICONE SEALED AT ANY JOINT. 2. COORDINATE SIZE OF CUP HOLDERS, IN -COUNTER BLENDERS, LID HOLDER, ICE BIN, ETC. WITH CUT OUTS PRIOR TO CUT OPENINGS. 3. COORDINATE LOCATION OF ELECTRICAL OUTLETS WITH LOCATION OF EQUIPMENT. 4. GENERAL CONTRACTOR SHALL PROVIDE BACKING FOR CASEWORK, AS REQUIRED. 5. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS FOR CASEWORK WITH CASEWORK VENDOR AND REPORT DISCREPANCIES OR CONFLICTS IMMEDIATELY TO SMOOTHIE KING. 6. ALL CABINET WORK SHALL COMPLY WITH AWW CUSTOM GRADE. UNLESS NOTED OTHERWISE, CABINETRY SHALL BE STANDARD PLASTIC CLAD CASE GOODS, LAMINATE INTERIORS. 7. ALL CASEWORK SET ON FLOOR TO BE SEALED TO FINISHED FLOOR PRIOR TO INSTALLING COVE BASE - USE CLEAR SILICONE.



2 MILLWORK PLAN
1/4" = 1'-0"

FF&E VENDOR WILL PROVIDE EQUIPMENT AND CABINETRY. FRANCHISEE TO COORDINATE BETWEEN GC AND FF&E VENDOR AS TO WHEN FF&E VENDOR IS TO INSTALL CABINETRY AND EQUIPMENT. GENERAL CONTRACTOR TO PROVIDE POWER AND WATER CONNECTIONS TO ALL THE EQUIPMENT IN THE MILLWORK, ALSO PROVIDE FINAL ELECTRICAL AND PLUMBING HOOK-UPS.



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



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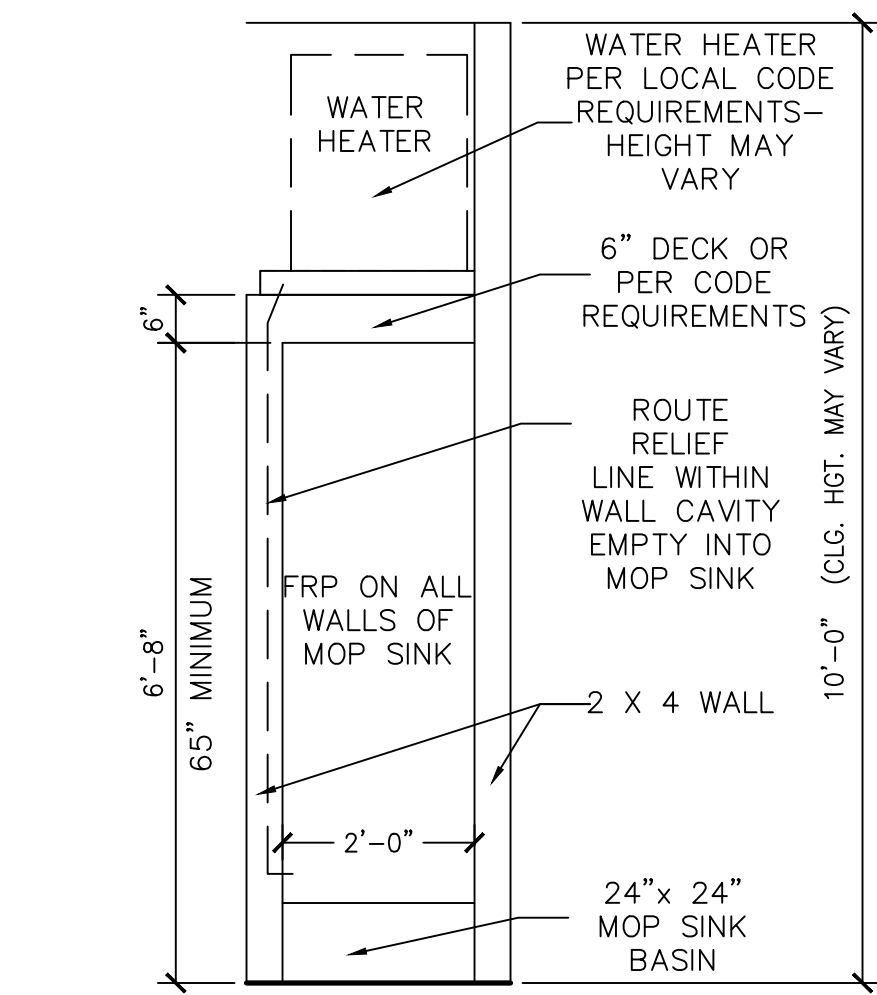
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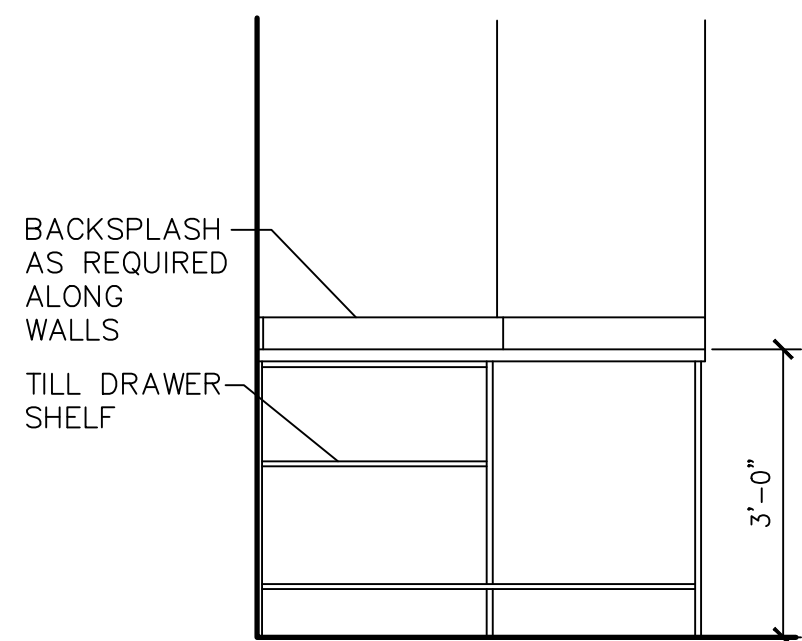
FINISH,
MILLWORK PLAN,
SCHEDULES

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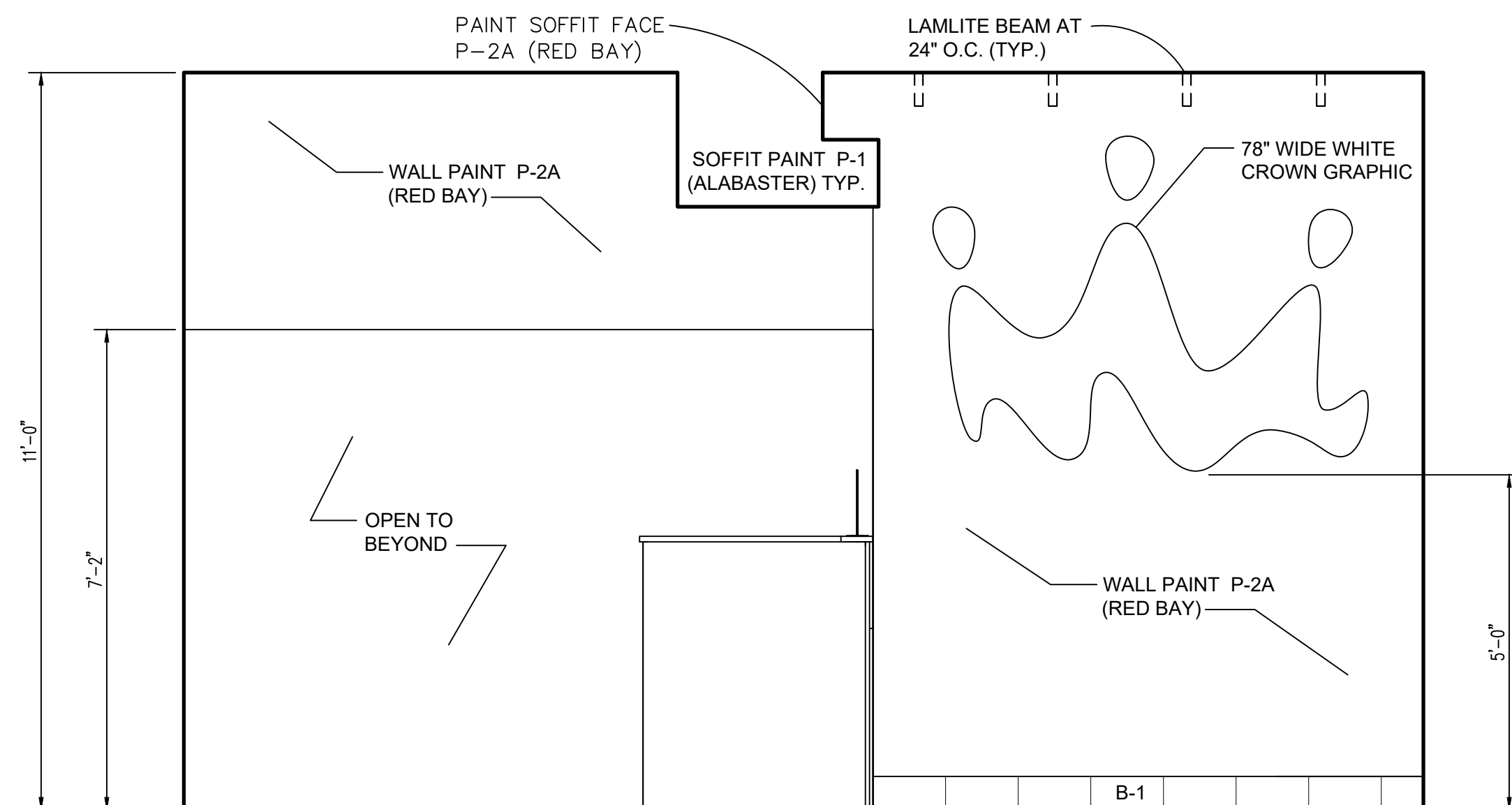
A-6



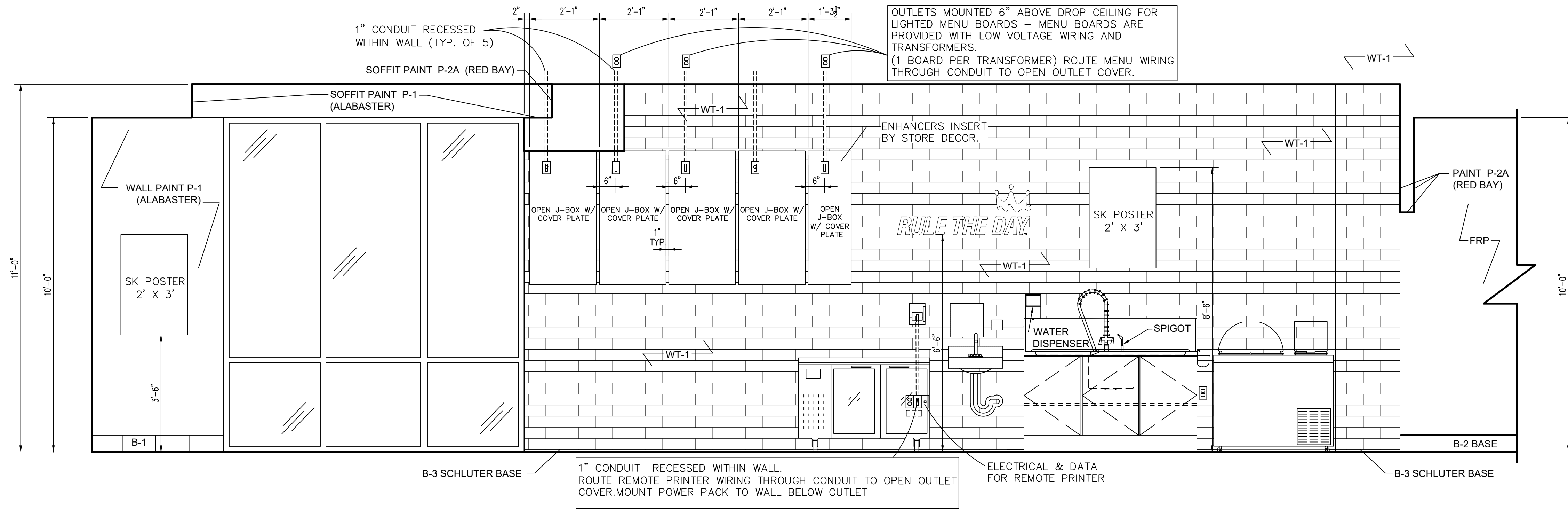
6
A-7
DETAIL OF WATER HEATER
OVER MOP SINK
SCALE: N.T.S.



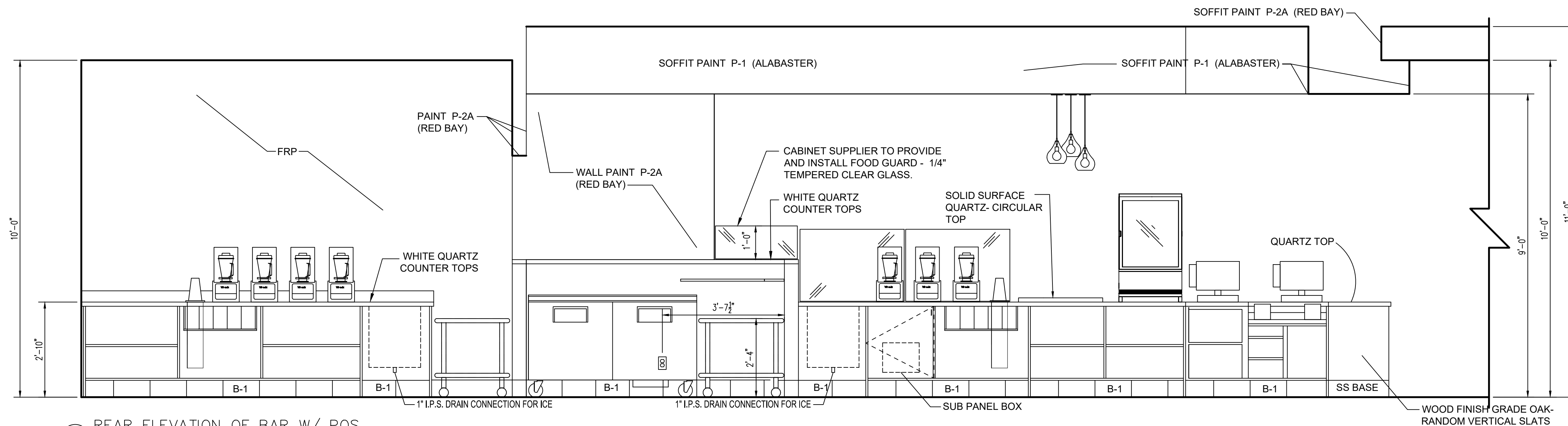
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A-7
DRIVE THRU POS CAB. ELEV.
SCALE: 1/2"=1'-0"



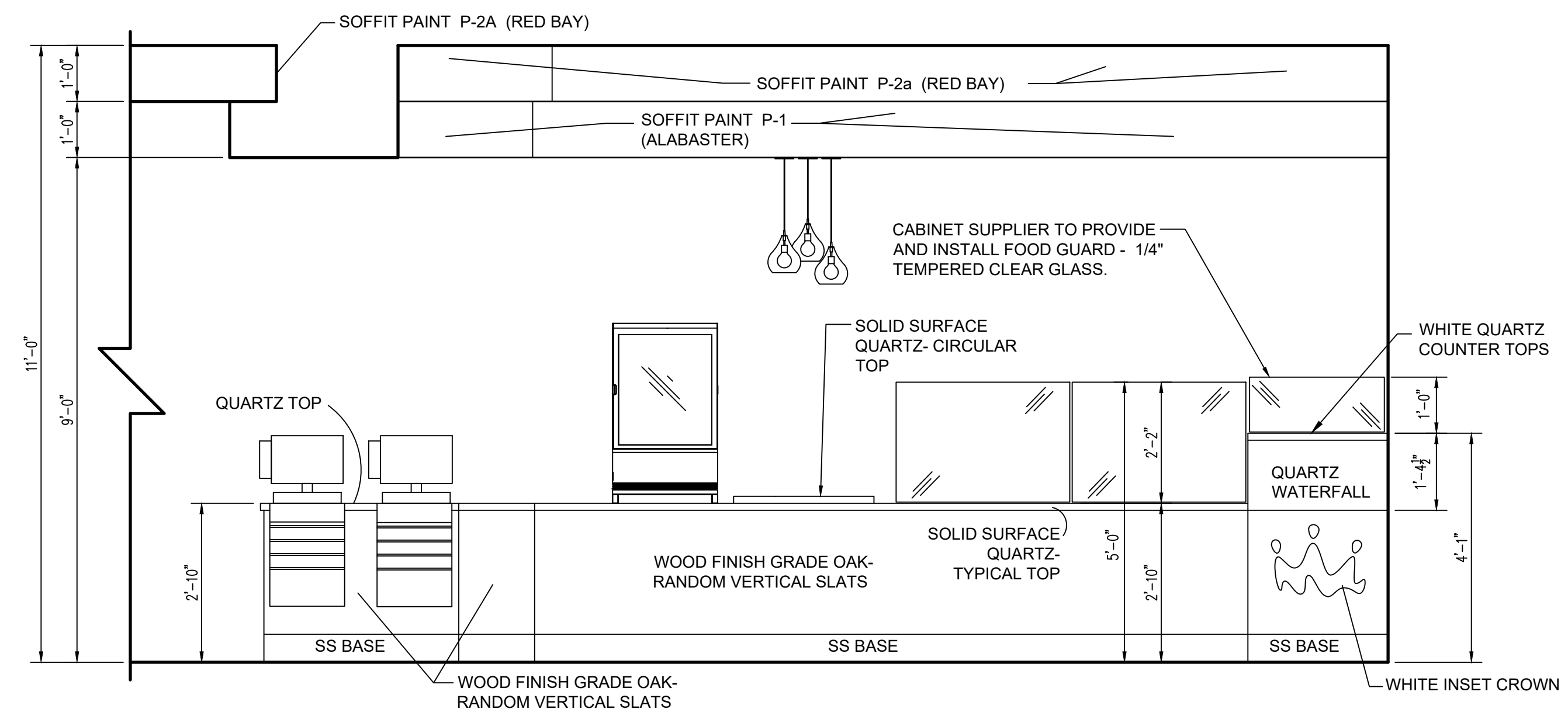
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A-7
ELEVATION OF T.V. WALL
SCALE: 1/2"=1'-0"



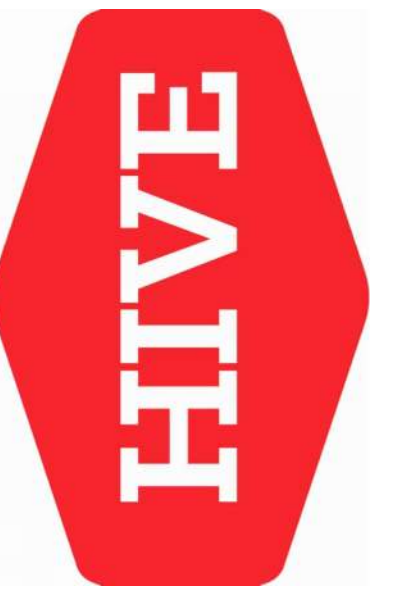
4
A-7
MENU BOARD ELEVATION
SCALE: 1/2"=1'-0"



3
A-7
REAR ELEVATION OF BAR W/ POS
SCALE: 1/2"=1'-0"



1
A-7
FRONT ELEVATION OF BAR
SCALE: 1/2"=1'-0"



SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
LEES SUMMIT, MO 64086

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1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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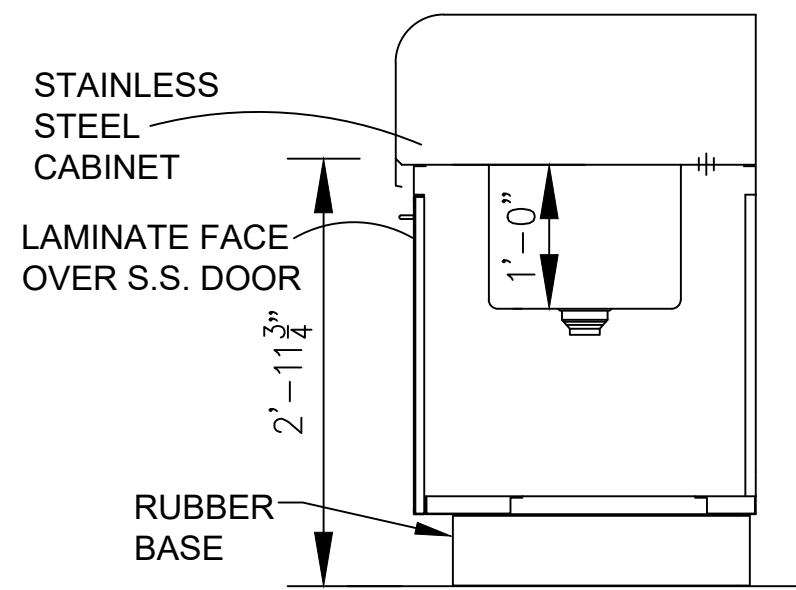
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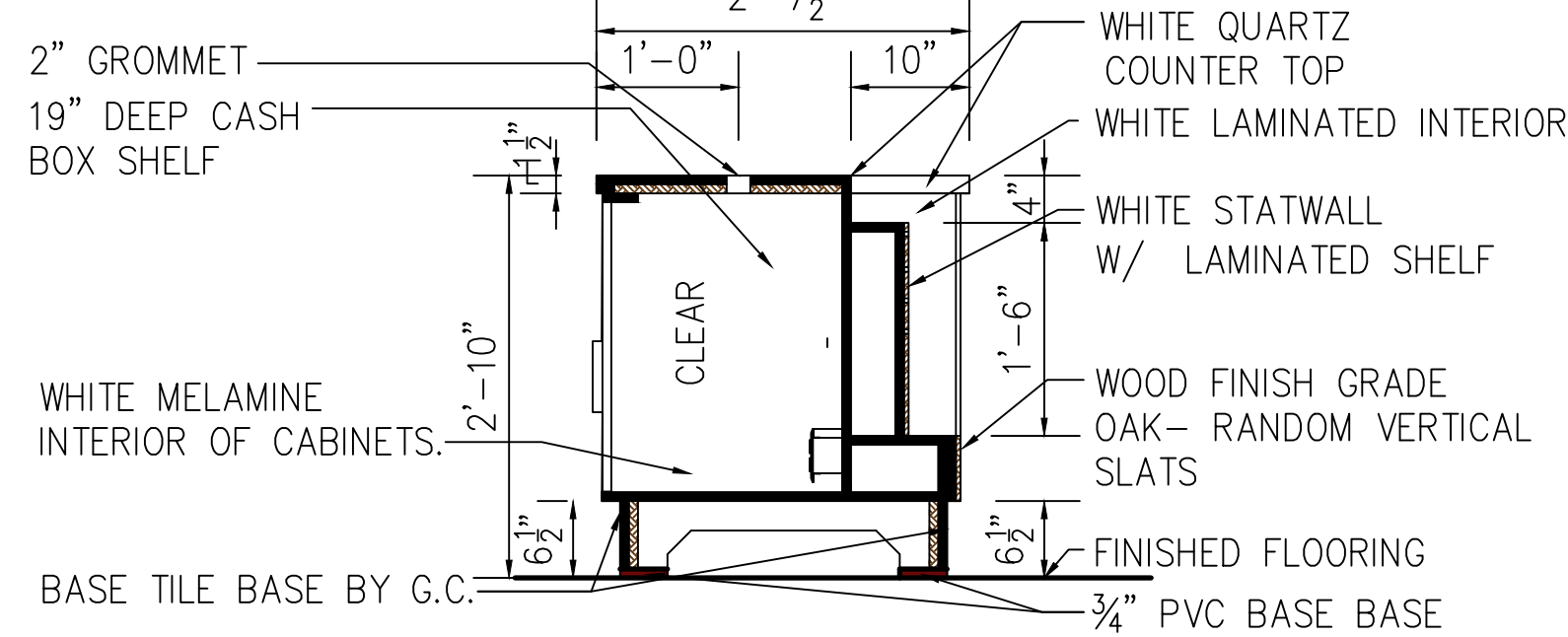
INTERIOR
ELEVATIONS

sheet number

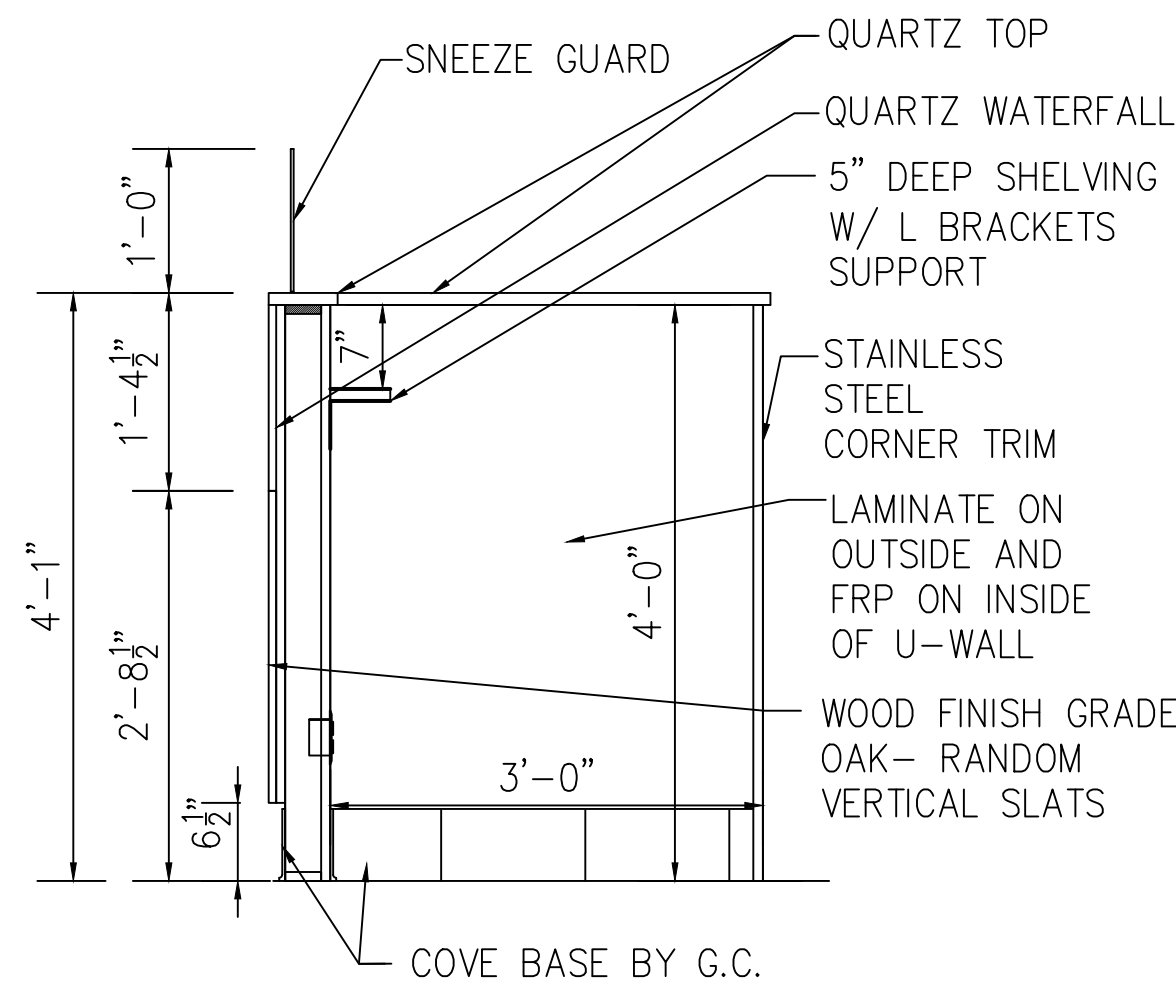
A-7



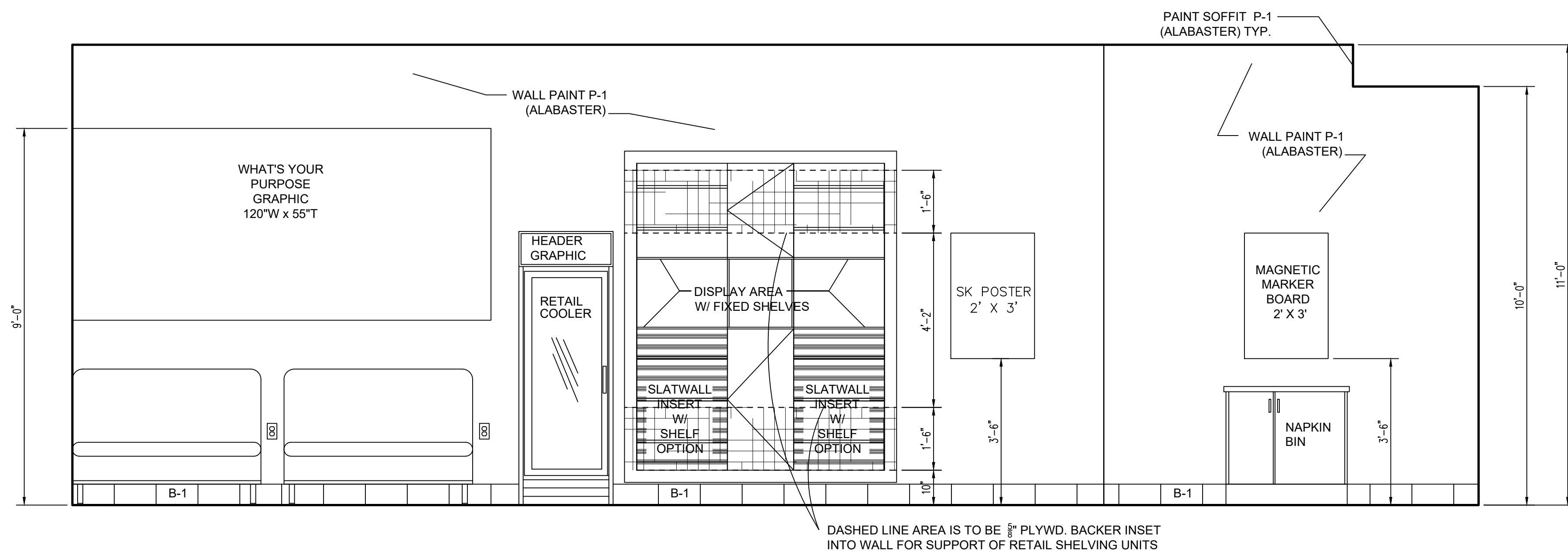
3 S.S. BLENDER SINK SECTION
A-8 SCALE: 3/4" = 1'-0"



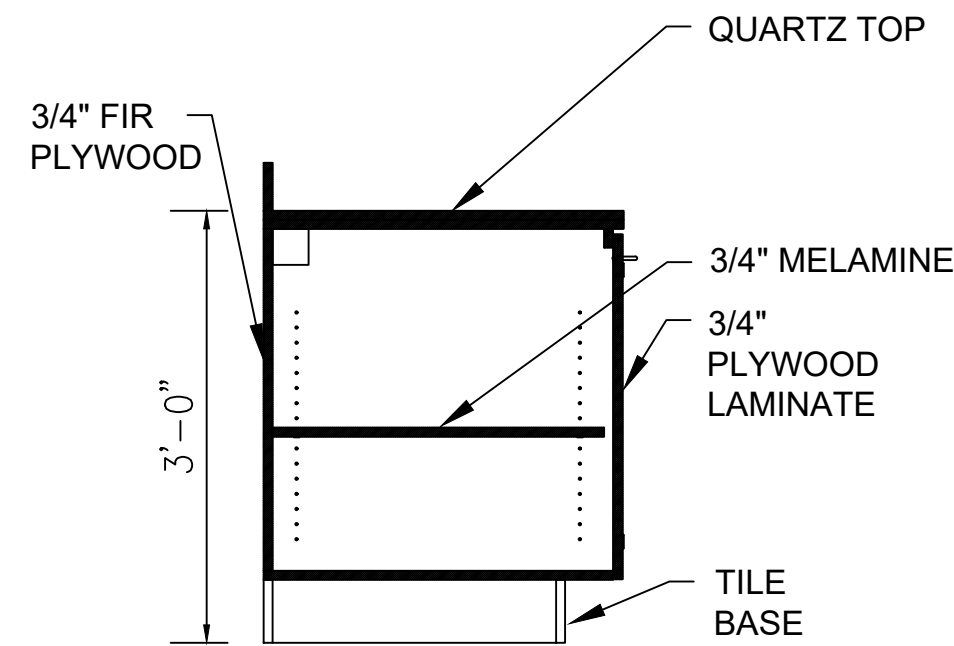
2 POS SECTION
A-8 SCALE: 3/4" = 1'-0"



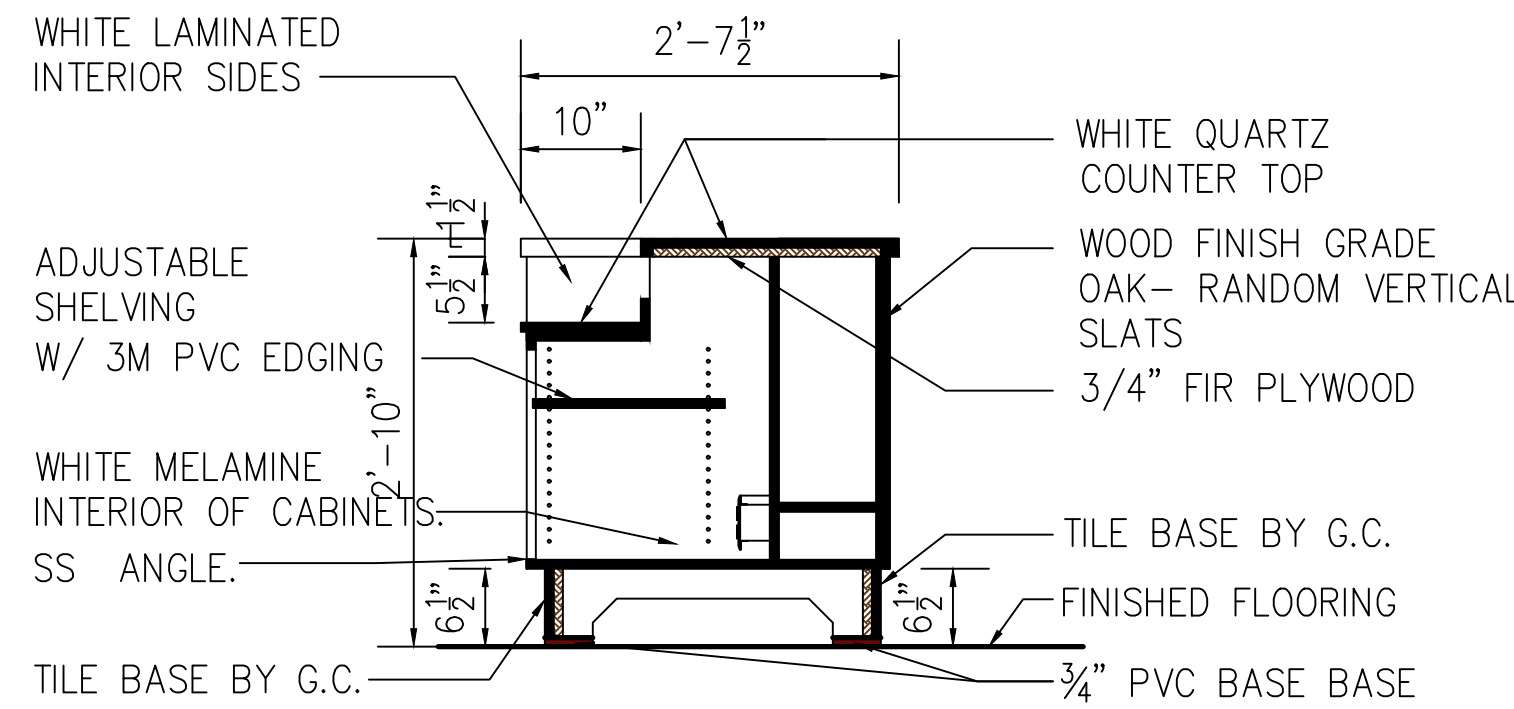
1 U-WALL SECTION
A-8 SCALE: 3/4" = 1'-0"



2 ELEVATION OF RETAIL SHELVING WALL
A-8 SCALE: 1/2"=1'-0"



5 BACK WALL CABINET
SECTION (NOT USED)
A-8 SCALE: 3/4" = 1'-0"



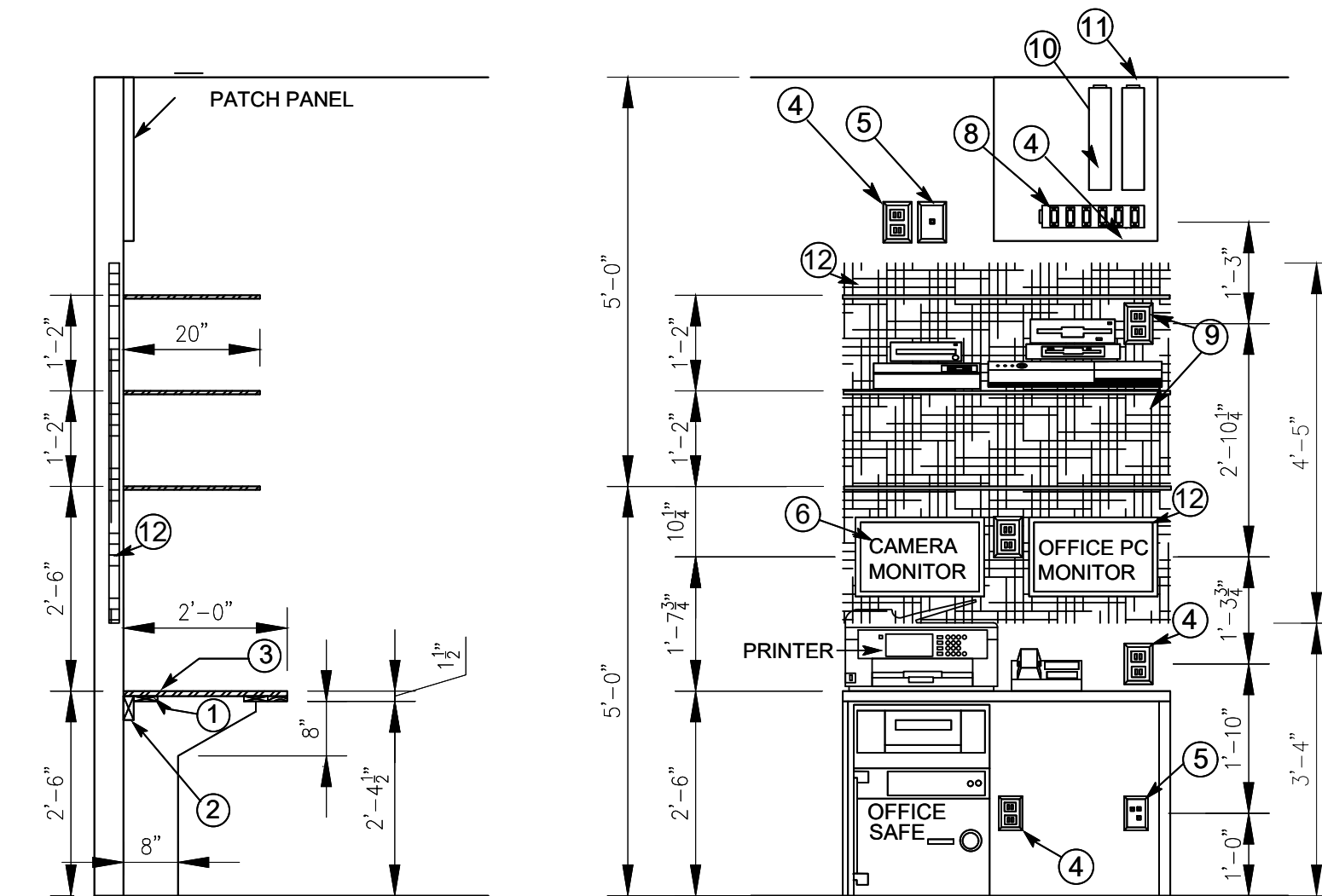
4 PAY ORDER AT PRINTER SECTION
A-8 SCALE: 3/4" = 1'-0"

Millwork Notes

- 1X4 SUBFRAME
 - 2X4 SUBFRAME
 - COUNTER TOP CONSTRUCTED OF 3/4" PLYWOOD W/ LAMINATE AND PVC EDGING
 - DEDICATED ELECTRICAL OUTLET 20 AMP FOR POS & COMPUTER GROUNDING TYPE BY G.C.
 - DATA & COMM OUTLET LOCATION
 - CONVENIENT ELECTRICAL OUTLET 20 AMP BY G.C.
 - SUPPORTING LEGS AS NEEDED
 - PATCH PANEL
 - DEDICATED ELECTRICAL OUTLET 20 AMP FOR POS GROUNDING TYPE AT 78" AFF BY G.C.
 - 66 PUNCH DOWN BLOCK FOR TELEPHONE COMMUNICATION BY OTHERS
 - FRP OVER 2'X2'X 3/4" PLYWOOD BY G.C.
- NOTE: ALL ROUGH IN DATA AND COMM BOXES BY G.C.

D1 BRINK
D2 BACKUP
D3 TERM1
D6 MGR. WORKSTATION
D7 REMOTE PRINTER
D8 GUEST WI-FI
D9 TELEVISION

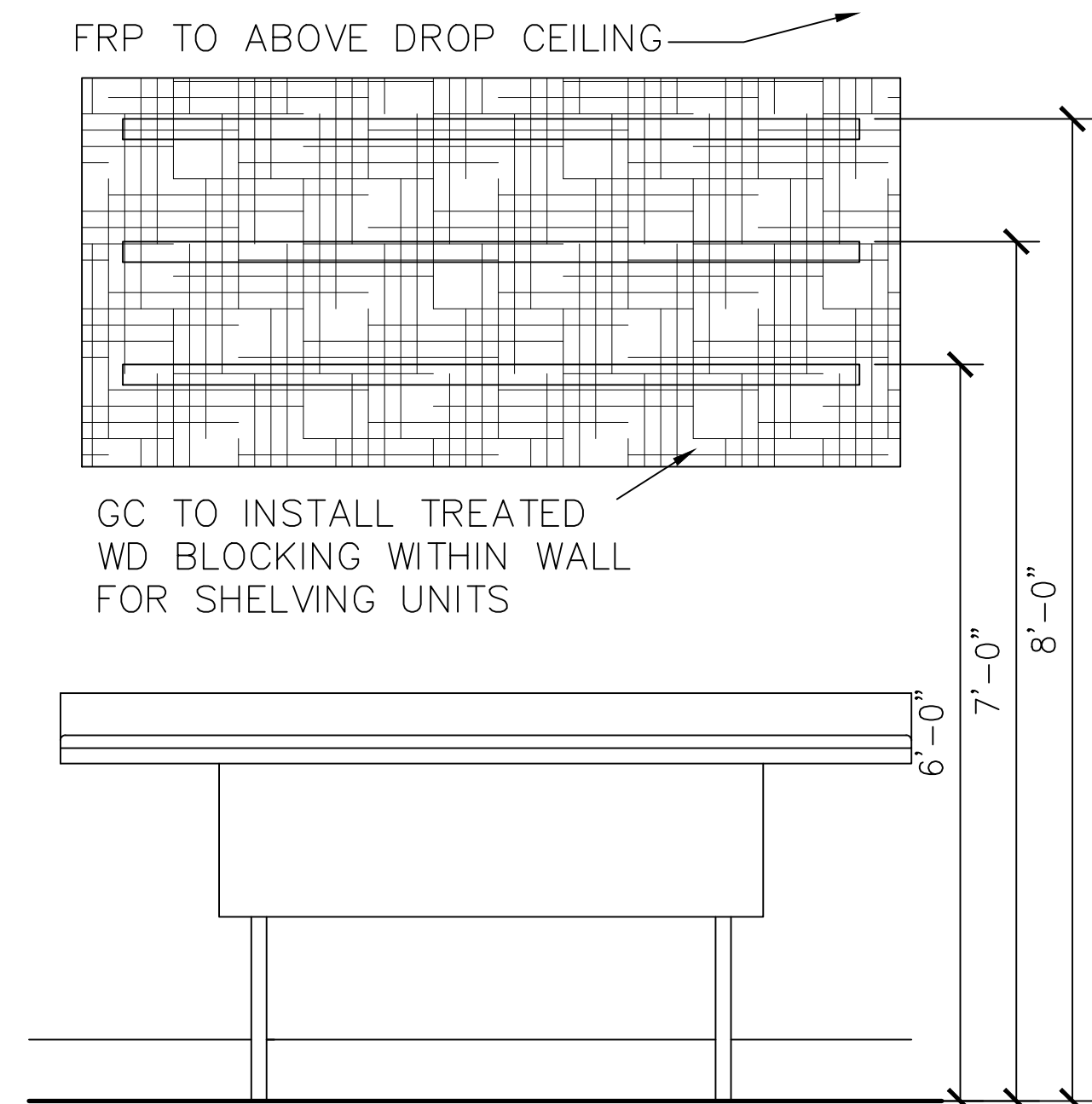
COLOR CODE
RED INTERNET
YELLOW UPLINK
BLACK POS (patch)
BLUE PUBLIC (patch)



TYPICAL DESK DETAIL TYP. ELEVATION

option #2 if safe must go beneath desk

3 ELEVATION OF DESK
A-8 SCALE: 1/2"=1'-0"



1 SHELVING DETAILS
OVER 3 COMPARTMENT SINK
A-8 SCALE: N.T.S



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MILLWORK
SECTIONS AND
DETAILS

sheet number

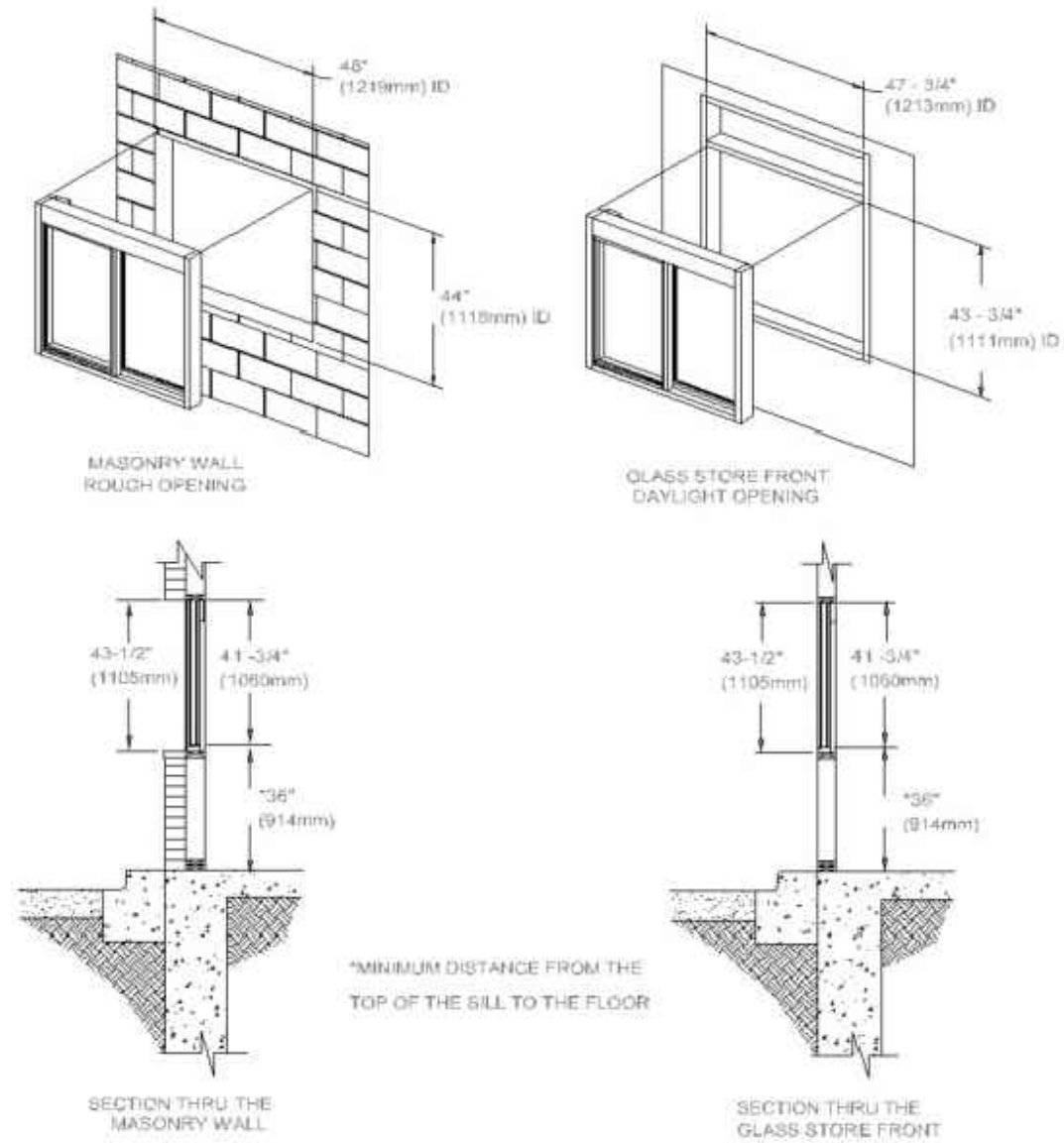
A-8

READY ACCESS 275

Physical Installation

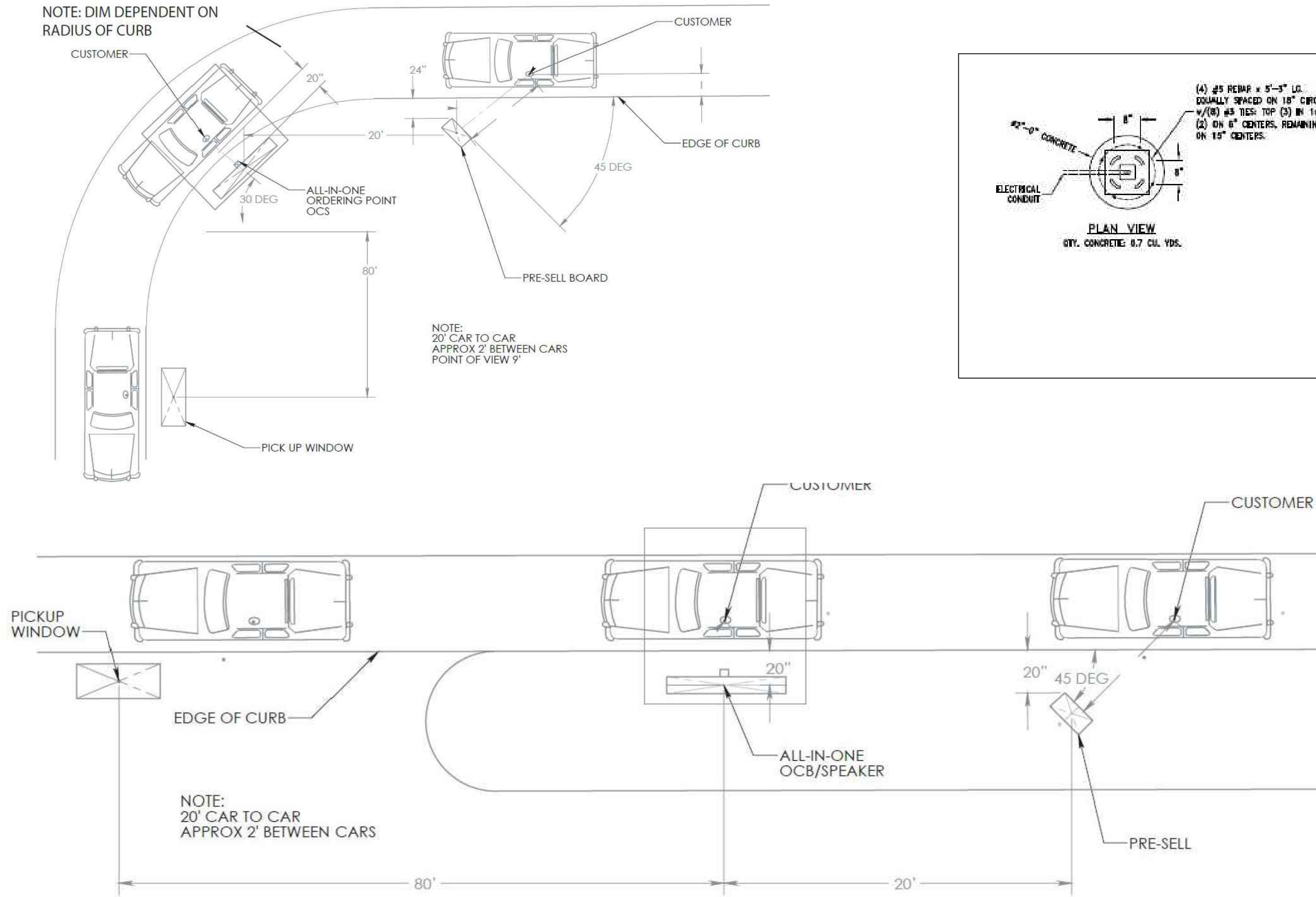
Before you begin installing your Ready Access Drive-Thru Window, you must determine what type of installation will be required. Example: Wood Framing, Masonry Framing, etc. Please refer to the details below and pick which one best fit your application.

See Chart previous pages for Masonry and Glazing Rough Opening Sizes

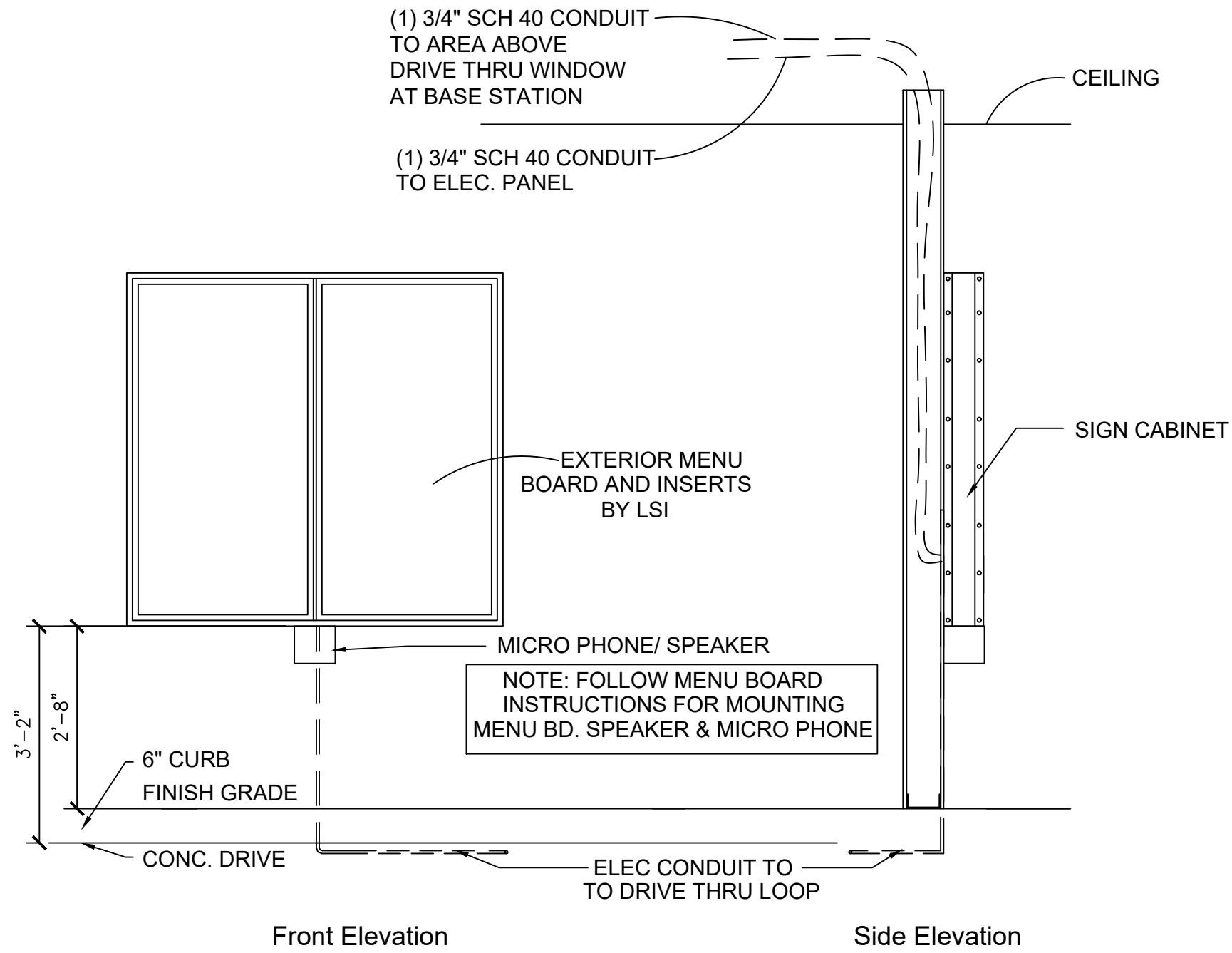


7 DRIVE THRU WINDOW DETAIL
A-9 N.T.S.

NOTE: DIM DEPENDENT ON RADIUS OF CURB



3 TYP - DRIVE THRU MENU BOARD SET UP
A-9 1/2" = 1'-0"

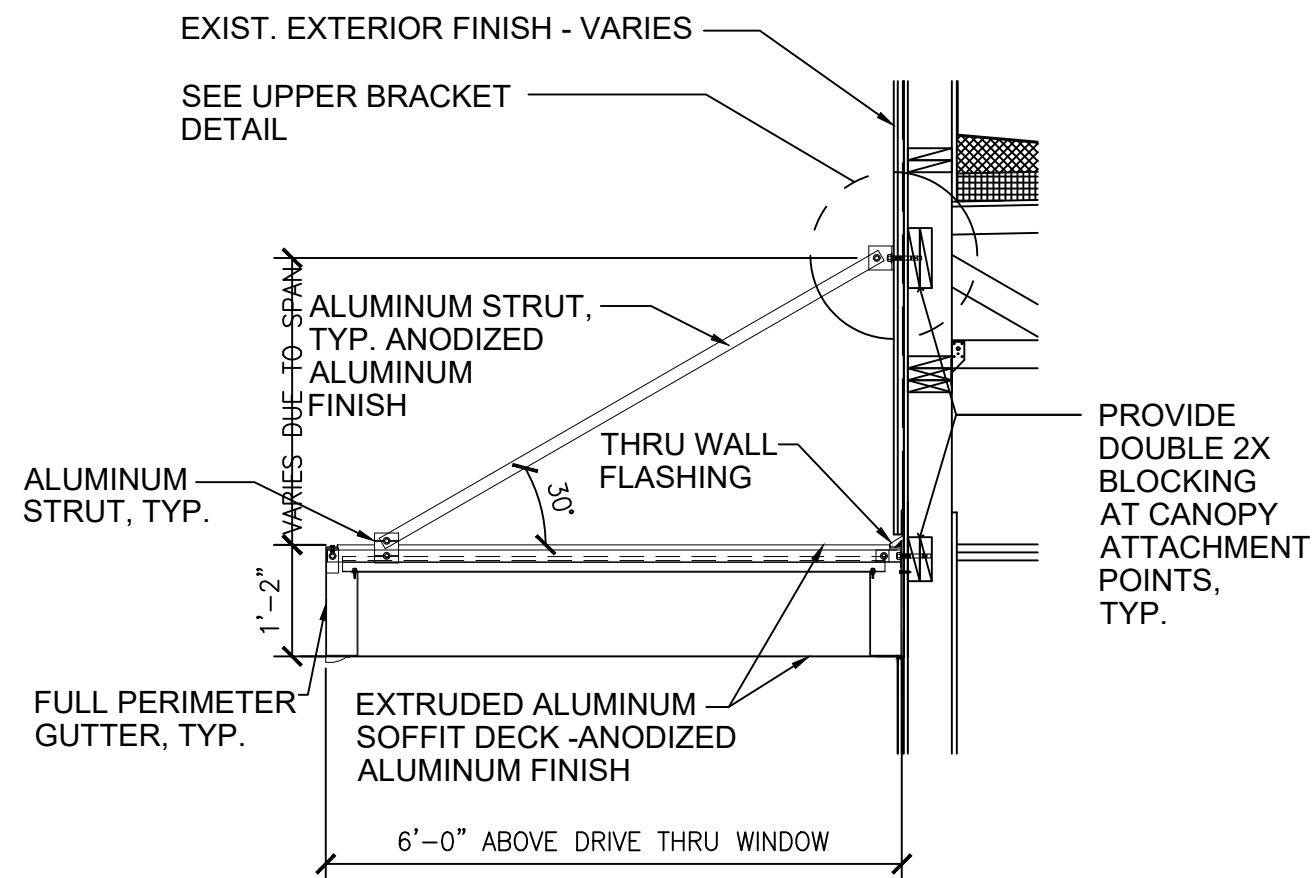


6 EXTERIOR MENU BOARD ELEVATION DETAIL
A-9 1/2" = 1'-0"

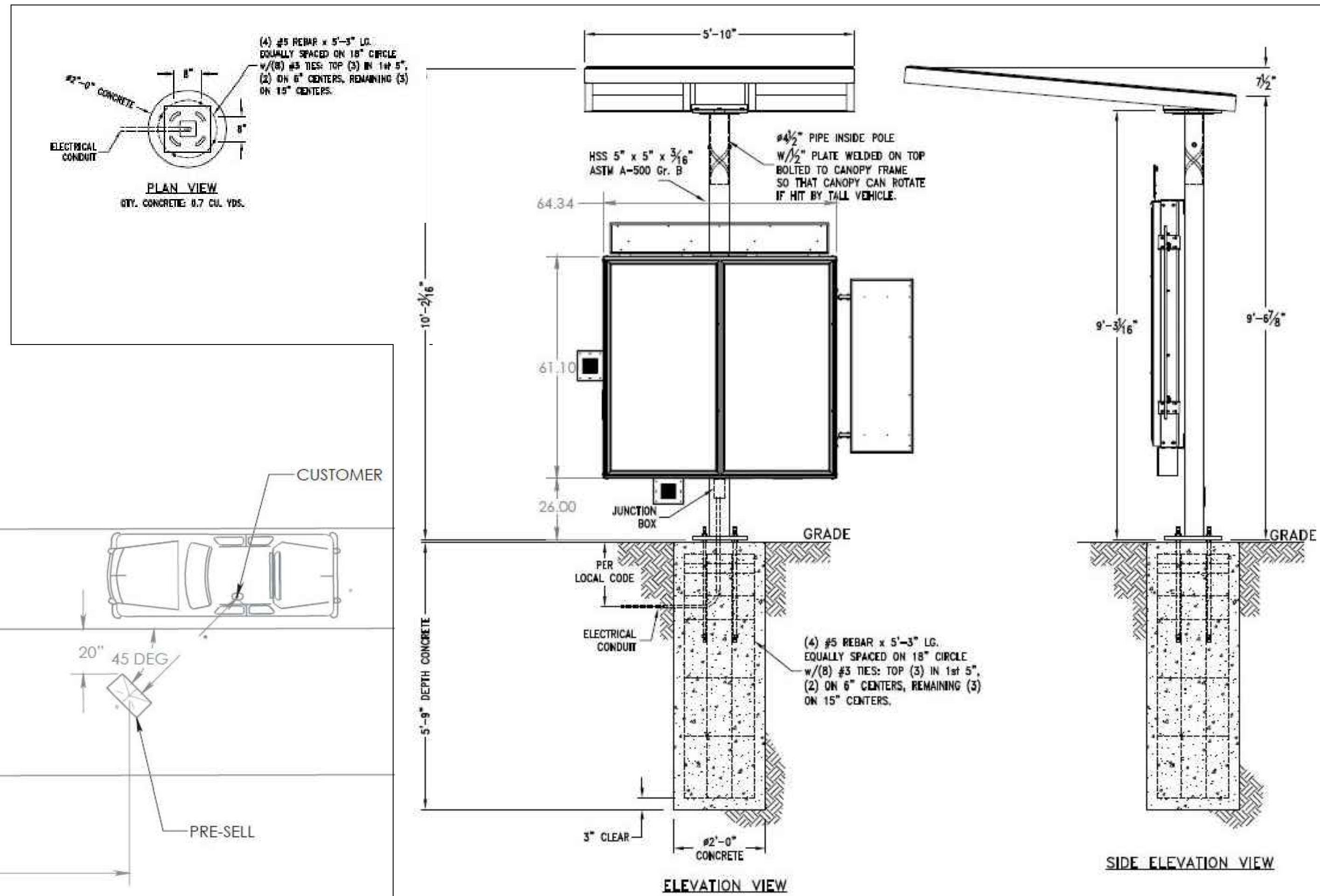
DRIVE THRU SCHEDULE			
MARK	PROVIDED BY	INSTALL BY	DESCRIPTION
(A)	ZEE	ZEE	MENU BOARD (CONTACT JENNY @ HOWARD - 262-317-7711)
(B)	ZEE	G.C.	MENU INSERT (DOES NOT INCLUDE ALL SMOOTHIE OPTIONS, BUT DOES INCLUDE TWO PROMOTIONAL GRAPHICS) (CONTACT JENNY @ HOWARD - 262-317-7711)
(C)	ZEE	ZEE	HME BUNDLE (HEADSETS, VEHICLE DETECTION) CONTACT CRAIG AT 770-309-1768
(D)	G.C.	G.C.	DRIVE THRU WINDOW-SEE DETAIL 5/A-9 CONTACT READY ACCESS AT 800-621-5045 FOR WINDOW ORDERS AND NATIONAL PRICING. FOR INSTALLATION DETAILS WEB SITE: WWW.READY-ACCESS.COM

5 MENU BOARD DETAIL
A-9 1/2" = 1'-0"

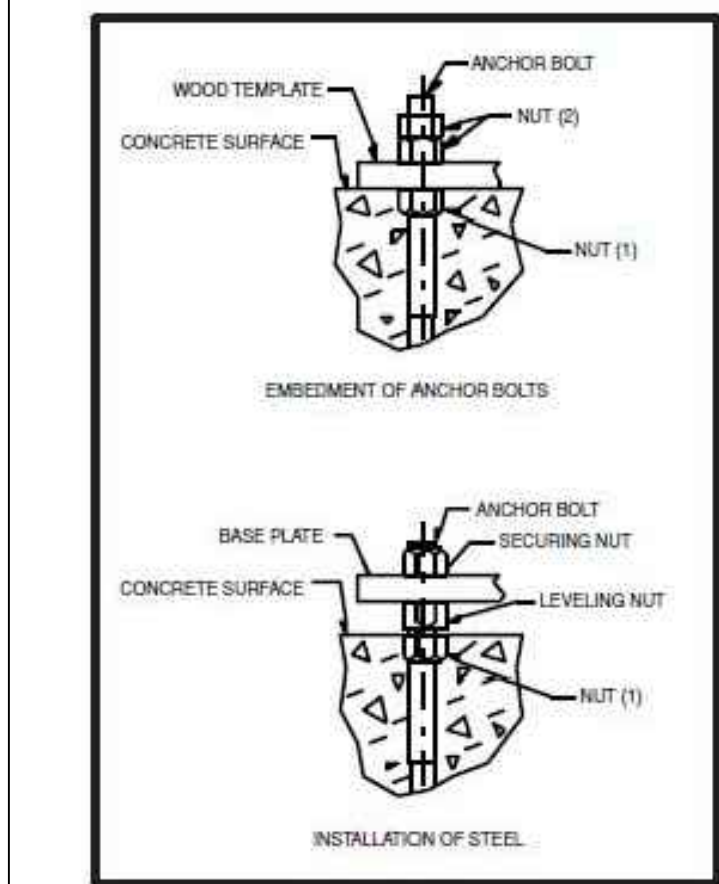
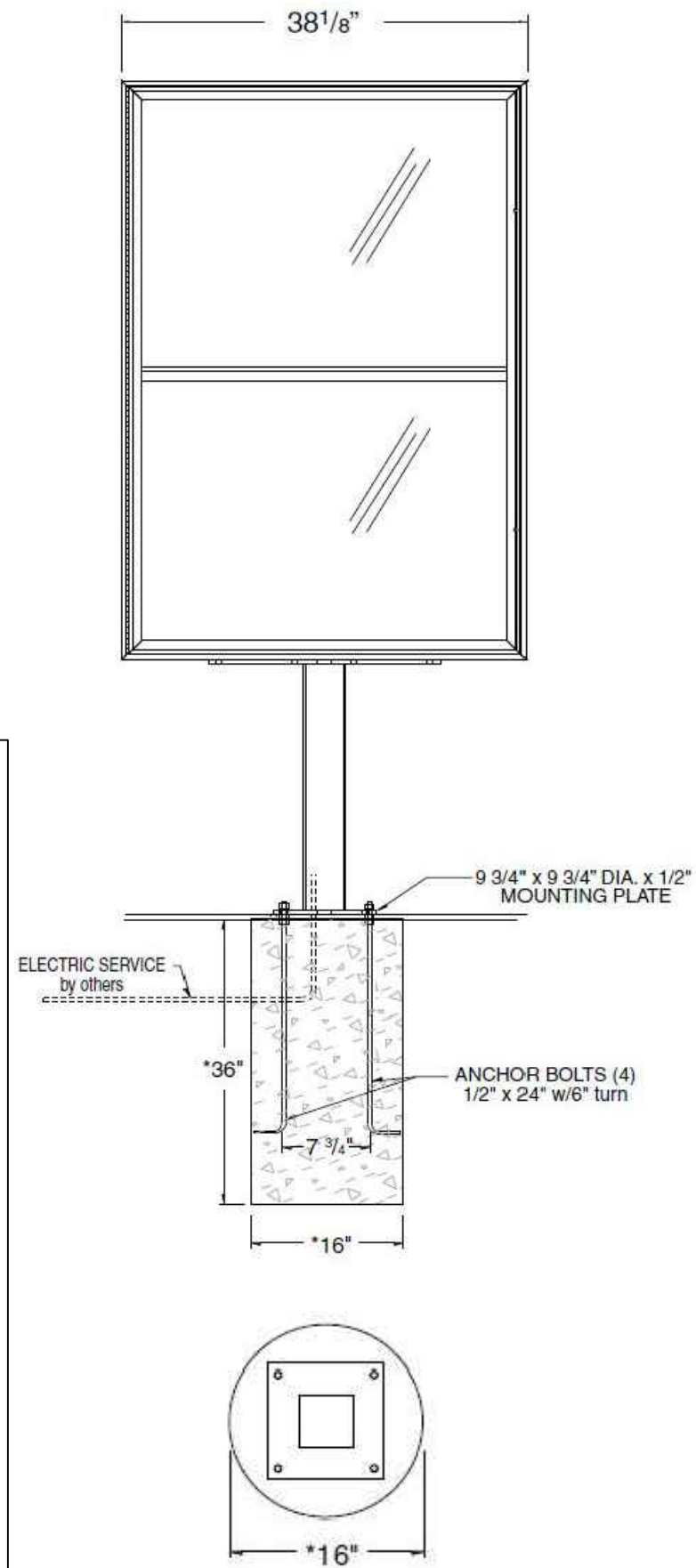
NOTE: ELECTRICAL OUTLET IN DRIVE THRU BOOTH LOCATED AT 6' A.F.F. FOR POWER TO DT BASE STATION



4 DRIVE THRU AWNING DETAIL
A-9 1/2" = 1'-0"



2 EXTERIOR MENU BOARD ELEVATION DETAIL & ANCHOR BOLT
A-9 1/2" = 1'-0"



1 ANCHOR BOLT -PRE ORDER
A-9 (A) (B)



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DRIVE THRU DETAILS

sheet number

A-9

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

	HOME RUN (2#12 1#120 UNO)
	INDICATES 2 PHASE, 1 N. & 1 GRD CONDUCTOR
	HOME RUN: INDICATES SHARED CIRCUIT
	HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

UTILITIES

---	UG	UNDERGROUND ELECTRICAL
---	OHE	OVERHEAD ELECTRICAL
---	TELE	TELECOMMUNICATIONS CONDUIT
---	UGT	UNDERGROUND TELECOMMUNICATIONS CONDUIT

LIGHTING

	GRID-MOUNTED TROFFER LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	SURFACE/RECESSED LIGHT FIXTURE
	WALL-MOUNTED LIGHT FIXTURE
	POLE-MOUNTED LIGHT FIXTURE
	EXIT LIGHT
	BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
	BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
	WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT
	LIGHT SWITCH - 3-WAY
	LIGHT SWITCH - 4-WAY
	LIGHT SWITCH - KEY
	LIGHT SWITCH - DIMMER
	LIGHT SWITCH - PILOT LIGHT
	LIGHT SWITCH - 2 POLE
	LIGHT SWITCH - 3-WAY DIMMER
	WALL-MOUNTED MOTION SWITCH
	CEILING-MOUNTED MOTION SWITCH
	SWITCHBANK - REFER TO DETAILS
	DIMMER BOARD
	REMOTE CONTROL SWITCH AS SCHEDULED
	TIMECLOCK - REFER TO PLANS / DETAILS

EQUIPMENT

	DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
	MAGNETIC MOTOR STARTER
	COMBINATION DISCONNECT SWITCH / MOTOR STARTER
	TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
	SURFACE PANELBOARD
	RECESSED PANELBOARD
	DISTRIBUTION PANELBOARD
	SWITCHBOARD, FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.

GENERAL SYMBOLS

	INDICATES CONNECT TO EXISTING
	INDICATES ELEVATION
	EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

POWER DEVICES

	DUPLEX RECEPTACLE
	LINE THRU DEVICE INDICATES ABOVE COUNTER
	SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
	QUADPLEX RECEPTACLE
	SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED
	MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
	CEILING MOUNTED RECEPTACLE
	RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"
	POKE-THRU WITH POWER
	POKE-THRU WITH TELECOMMUNICATIONS
	POKE-THRU W/POWER AND TELECOM
	FLOOR BOX
	DIVIDED POWER POLE
	CLOCK RECEPTACLE
	PLUG MOLD / WIRE MOLD AS SPECIFIED
	JUNCTION BOX
	THERMOSTAT - ELECTRIC
	PUSH BUTTON
	MOTOR

TELEPHONE/DATA

	TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
	LINE THRU DEVICE INDICATES ABOVE COUNTER
	DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
	TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)
	PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
	CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER

AUDIO/VISUAL

	TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
	REVERSE TELEVISION OUTLET - CABLE TO HEAD END
	RECESSED COMBINATION AV AND POWER OUTLET COORD LOCATION OF DEVICE WITH TV MOUNT
	TEACHER'S DESK CONNECTIONS - RE: DETAILS
	WALL SPEAKER
	CEILING SPEAKER
	CEILING SPEAKER - SUBWOOFER
	CEILING SPEAKER - SOUND SYSTEM
	VOLUME CONTROL AUDIO JACK
	REMOTE MICROPHONE CONTROL

COMMUNICATIONS SYMBOLS

	INTERCOM CALL STATION
	INTERCOM HANDSET
	PUBLIC ADDRESS SYSTEM AMPLIFIER
	INTERCOM MASTER STATION
	WALL SPEAKER - HORN TYPE
	CEILING SPEAKER - HORN TYPE
	ELEVATOR 2-WAY COMMUNICATION STATION
	ELEVATOR 2-WAY COMMUNICATION MASTER STATION
	ELEVATOR 2-WAY COMMUNICATION POWER SUPPLY

FIRE ALARM

	MANUAL PULL STATION
	CEILING SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	WATERFLOW SWITCH
	TAMPER SWITCH
	WALL-MOUNTED FA STROBE WITH CANDELA RATING. 15cd RATING UNLESS OTHERWISE NOTED ON PLANS.
	WALL-MOUNTED FA SPEAKER
	WALL-MOUNTED FA HORN/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
	WALL-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
	CEILING-MOUNTED FA STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
	CEILING-MOUNTED FA SPEAKER
	CEILING-MOUNTED FA HORN/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
	CEILING-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
	RELAY
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	REMOTE ANNUNCIATOR PANEL
	FIRE ALARM EXTENDER CABINET
	DOOR HOLDER
	SINGLE / MULTI-STATION 120V SMOKE ALARM
	ZONE ADDRESSABLE MODULE
	INDIVIDUAL ADDRESSABLE MODULE
	KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL
	KITCHEN HOOD REMOTE PULL STATION
	AREA OF RESCUE ASSISTANCE STATION
	AREA OF RESCUE ASSISTANCE MASTER STATION

NURSE CALL

	NURSE CALL STATION
	NURSE CALL EMERGENCY PULL CORD
	CODE BLUE STATION
	NURSE CALL STAFF STATION
	NURSE CALL DUAL PUSHBUTTON STATION (CODE BLUE / STAFF ASSIST)
	PATIENT MONITOR STATION
	NURSE CALL DUTY STATION
	NURSE CALL DOME LIGHT
	NURSE CALL ZONE LIGHT
	NURSE CALL MASTER STATION
	RESIDENT CALL MASTER STATION
	RESIDENT CALL EMERGENCY PULL CORD

SECURITY

	FIXED CAMERA
	PAN/TILT/ZOOM CAMERA
	PROXIMITY TYPE CARD READER
	SWIPE CARD READER
	KEYPAD / MAG LOCK
	BUTTON / MAG LOCK

FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INSTALLED.
- PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH UL LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
- FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

	HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
	SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
	CONICAL BELLMOUTH ROUND TAKEOFF
	ROUND DUCT RUNOUT WITH FLEX DUCT
	DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)
	FD: FIRE DAMPER FS: FIRE/SMOKE DAMPER SD: SMOKE DAMPER BD: BACKDRAFT DAMPER (GRAVITY)
	AUTOMATIC MOTORIZED DAMPER
	SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM) LINEAR/SLOT DIFFUSER
	RETURN GRILLE OR EXHAUST REGISTER
	SUPPLY AIR FLOW INDICATOR
	RETURN AND EXHAUST AIR FLOW INDICATOR
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
	CONTROL WIRING

MEDICAL GAS

	MEDICAL VACUUM PIPING
	OXYGEN PIPING
	NITROUS OXIDE PIPING
	MEDICAL COMPRESSED AIR PIPING
	NITROGEN PIPING
	CARBON DIOXIDE PIPING
	VACUUM VENT PIPING
	WASTE ANESTHETIC GAS DISPOSAL PIPING
	MEDICAL GAS VENT PIPING
	MEDICAL GAS OUTLET W/ DESIGNATION (RE: BELOW)
	O OXYGEN
	N NITROGEN
	NO NITROUS OXIDE
	WAGD WASTE ANESTHETIC GAS DISPOSAL
	CO CARBON DIOXIDE
	MV MEDICAL VACUUM
	SA SURGICAL AIR
	S MEDICAL SLIDE

GENERAL SYMBOLS

	INDICATES CONNECT TO EXISTING
	INDICATES ELEVATION
	EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR MECHANICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

MECHANICAL PIPING

	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	DRAIN (CONDENSATE)
	COMPRESSED AIR
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED/HOT WATER SUPPLY
	CHILLED/HOT WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	COOLING TOWER SUPPLY
	COOLING TOWER RETURN
	STEAM (ANY #S DENOTE PRESSURE)
	CONDENSATE RETURN (#S DENOTE PRESSURE)
	REFRIGERANT VENT
	RUPTURE DISK

PLUMBING PIPING

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	RECIRCULATING DOMESTIC HOT WATER
	WASTE ABOVE GRADE OR FLOOR
	WASTE BELOW GRADE OR FLOOR
	STORM ABOVE GRADE OR FLOOR
	STORM BELOW GRADE OR FLOOR
	STORM OVERFLOW ABOVE GRADE OR FLOOR
	STORM OVERFLOW BELOW GRADE OR FLOOR
	PLUMBING VENT
	WATER SERVICE
	GAS (NATURAL)
	FROM SUMP PUMP DISCHARGE
	COMPRESSED AIR
	PROPANE
	SOFT DOMESTIC COLD WATER
	SOFT DOMESTIC HOT WATER
	SOFT RECIRCULATING HOT WATER
	ACID WASTE
	ACID WASTE VENT
	NON-POTABLE
	DEIONIZED WATER
	REVERSE OSMOSIS WATER

FIRE SPRINKLER

	FIRE PROTECTION PIPING
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FIRE PROTECTION SIAMESE CONNECTION
	POST INDICATOR VALVE

PIPING SYMBOLS

	SHUTOFF VALVE
	SHUTOFF VALVE IN RISER
	BALANCING VALVE
	PLUG VALVE
	AUTO FLOW CONTROL VALVE
	PIPING ELBOW UP
	PIPING ELBOW DOWN
	PIPING TEE
	PIPING TEE UP
	PIPING TEE DOWN
	INCREASE / REDUCER
	UNION
	CAP
	PIPE FLEX
	STRAINER
	CHECK VALVE
	INLINE STRAINER
	TEST PLUG
	ANCHOR
	TRIPLE DUTY VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	SOLENOID VALVE

PIPING SPECIALTIES

	PRESS/ TEMP GAUGE WITH COCK
	THERMOMETER
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	WATER HAMMER ARRESTOR

PLUMBING FIXTURES/EQUIPMENT

	HOSE BIBB
	WALL HYDRANT
	CLEAN OUT
	REDUCED PRESSURE BACKFLOW PREVENTER
	DOUBLE CHECK BACKFLOW PREVENTER
	PLUMBING FIXTURE AND CALLOUT
	FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK
	RD: ROOF DRAIN
	ORD: OVERFLOW ROOF DRAIN

GEN. MECHANICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/H.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
- EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO BE INSTALLED PER IMC 608 AS REQUIRED BY A/H. COORDINATE WITH OTHER TRADES.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/H.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL BE SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
- PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
 - IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
 - IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
 - EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
 - AT THE BASE OF EACH WASTE OR SOIL STACK.
 - NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/H.
- COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
- REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MLO	MAIN LUGS ONLY
AF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	NFA	NET FREE AREA
AFG	ABOVE FINISHED GRADE	EW	ENTERING WATER TEMPERATURE	NL	NIGHT LIGHT
AG	ABOVE GRADE	EX	EXISTING ITEM	OA	OUTSIDE AIR
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	P/C	PLUMBING CONTRACTOR
ARCH	ARCHITECT	FFCD	FINISHED FLOOR CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FGCO	FLUSH GRADE CLEAN OUT	PVC	POLYVINYLCHLORIDE
BG	BELOW GRADE	FL	FLOW LINE	RA	RETURN AIR
BLDG	BUILDING	FLR	FLOOR	RE/REF	REFER / REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RF	RELIEF FAN
C	CONDUIT	FPM	FEET PER MINUTE	RI	RELOCATED ITEM
CD	CANDELA	FWCO	FLUSH WALL CLEAN OUT	RPZ	REDUCED PRESSURE ZONE
CG	COLD DECK	G	GROUND / GANG	RR	RESTROOM
CLG	COOLING	G/C	GENERAL CONTRACTOR	SA	SUPPLY AIR

15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 - MECHANICAL REQUIREMENTS

1. GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING MECHANICAL & PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

B. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.

C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.

D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.

E. FINAL ACCEPTANCE OF WALL SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.

F. WARRANT TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.

G. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

H. ROOF PENETRATIONS - MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 - PLUMBING

2. PIPING

A. WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER, INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS, THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.

B. WASTE & VENT PIPING - CI BELL & SPIGOT OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS, SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.

3. VALVES

4. EQUIVALENT VALVES LISTED ON CURRENT COMPARISON CHARTS OF SPECIFIED VALVE MANUFACTURERS BY MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APPOLO, MUELLER, MUSSCO, WATTS, HAYS, ROCKWELL-NORDSTROM.

5. BALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLOW SEATS, BRONZE BALL & INSULATED HANDLE.

6. BALANCING VALVES - ARMSTRONG MODEL CBV 1 OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.

7. CHECK VALVES - 2" & SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLOW OR BRONZE DISC & SEAT RING, 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200 PSI-WOG/125 PSI-WSP.

FIXTURES - SEE SCHEDULES

A. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO

B. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL

C. FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC.

D. SEATS: CHURCH, OLSONITE, BEAMS OR BENKE.

E. DRINKING FOUNTAINS: HALSEY TAYLOR, ELKAY, OASIS, OR HAWES.

F. TRIM BY MOEN, DELTA, ELIER, KOHLER, AMERICAN SIGBARD, CRANE, SLOAN.

G. FLUSHVALVES: SLOAN, ZURN, TOTO

H. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.

EQUIPMENT - SEE SCHEDULES

A. WATER HEATER - STATE, RHEIM, NATIONAL, A.O. SMITH, PORCELAINIZED GLASSLINED TANK, COLD WATER INLET DROP TUBE, MAGNESIUM ANODE RODS, U.L. SEAL, 160 PSI, FACTORY TEMPERATURE & PRESSURE RELIEF VALVE, N.S.F. CONSTRUCTION, 3 YR WARRANTY.

B. RECIRCULATION PUMPS - HORIZONTAL, OIL-LUBRICATED, ALL BRONZE, NON-OVERLOADING MOTOR.

EXECUTION

A. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.

B. AFTER PIPING IS IN PLACE TEST LINES TO INSURE NO LEAKS.

C. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.

D. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.

E. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.

F. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANKS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY CAPACITY. LOCATE ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

SECTION 15300 - HVAC

GENERAL

A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.

B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NEC, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.

DUCTWORK

A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.

B. EXPOSED SPIRAL DUCT SHALL BE LEADOR APPROVED EQUAL GASKETED STYLE.

C. VOLUME DAMPERS SHALL BE MANUAL LOCKING BLADE TYPE.

D. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.

E. WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. ALSO LINE FIRST 10' OF SUPPLY DUCTWORK FOR SOUND ATTENUATION (IN ADDITION TO WRAP) LINE ALL RETURN AIR DUCTS & TRANSFER BOOTS W/ 1/2" LINER. DO NO WRAP EXPOSED SPIRAL DUCTS.

SPECIALTIES

A. FLEXIBLE DUCTS - THERMAFLEX OR EQUAL SOUND RATED TYPE G-KM INSULATED. (DUCT W/0 PUBLISHED ACOUSTICAL ATTENUATION RATINGS NOT ACCEPTABLE) TAKE OFF FITTING SHALL BE 1/4" LEFT STYLE W/ LOCKING DAMPER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 7'-0".

B. DIFFUSERS & GRILLES - SEE SCHEDULE. EQUIVALENT BY PRICE, TUTTLE & BAILEY, TITUS, WATZL-ARE, KREUGER. COORDINATE COLOR, MOUNTING W/ DUCT, CEILINGS, ARCHITECT.

EQUIPMENT

A. EXHAUST FANS - EQUIVALENT BY COOK, PENN, AOME, GREENHECK, JENNAIRE. PROVIDE W/ SPEED CONTROLS FOR ALL FANS LESS THAN 1/3HP TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE W/ 14" MIN. CURB.

B. PROGRAMMABLE THERMOSTAT - PROVIDE W/ DOO/UNDOO PERIODS/DAY, AUTO HEAT/COOL CHANGE OVER, LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, CARRIER OR APPROVED EQUAL.

EXECUTION

A. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.

SECTION 15900 - SYSTEM TESTING & BALANCING

A. CONTRACTOR SHALL PROCURE SERVICES OF INDEPENDENT TAB CONTRACTOR WHICH SPECIALIZES IN TAB OF HVAC SYSTEMS, TO BALANCE, ADJUST, & TEST AIR MOVING EQUIPMENT & DISTRIBUTION & EXHAUST SYSTEMS & ALL WATER FLOW CIRCUITS. WORK SHALL BE DONE UNDER ENGINEER EMPLOYED TAB. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED & MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED TESTS SHALL BE CONDUCTED IN PRESENCE OF A/E RESPONSIBLE FOR PROJECT &/OR REPRESENTATIVE. TAB CONTRACTOR SHALL BE CERTIFIED BY NEBB OR AABC & ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ ORGANIZATIONS PUBLISHED PROCEDURE MANUALS.

B. TESTING & BALANCING (TAB) OF BUILDING HVAC SYSTEMS WILL BE COMPLETED NEAR END OF CONSTRUCTION. W/C HAS RESPONSIBILITY TO COOPERATE W/, MAKE ADJUSTMENTS FOR & PROVIDE EQUIPMENT NECESSARY FOR TAB CONTRACTOR TO COMPLETE JOB.

C. PRIOR TO REQUESTING TAB CONTRACTOR TO PERFORM WORK, INSTALLING CONTRACTOR SHALL MAKE ALL NECESSARY INSPECTIONS & ADJUSTMENTS TO INSURE THAT SYSTEMS ARE COMPLETELY INSTALLED & OPERATING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & CONTRACT DOCUMENTS.

D. CHECKS SHALL BE PERFORMED ON EACH SYSTEM INSTALLED UNDER THIS CONTRACT. REPORT SHEET SHALL BE PREPARED FOR EACH SYSTEM INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB

CONTRACTOR & (1) TO A/E. TAB CONTRACTOR WILL NOT BEGIN UNTIL CHECKLIST HAS BEEN RECEIVED & REVIEWED.

E. TAB CONTRACTOR SHALL AT MINIMUM, VERIFY & INSPECT THAT SYSTEMS ARE CLEAN, FAN ROTATION, BEARINGS, CLEARANCES, ALIGNMENT, VIBRATION ISOLATORS, FILTERS, DAMPER OPERATION & POSITION, EQUIPMENT IS INSTALLED, TRANSFER OPENINGS IN WALLS, AIR LEAKS, COIL FINS/DAMAGE.

F. BALANCING CONTRACTOR SHALL PREPARE CERTIFIED REPORT OF ALL TESTS PERFORMED. REPORT SHALL BE WRITTEN ON STANDARD FORMS PREPARED BY NEBB OR AABC OR FACSIMILES THEREOF. BALANCING CONTRACTOR SHALL SUBMIT 3 COPIES OF THIS REPORT TO W/C WHO SHALL SUBMIT THEM TO A/E FOR REVIEW & DISTRIBUTION.

G. AIR HANDLING UNIT AS INSTALLED SHOWING OUTDOOR, RETURN & SUPPLY AIR CONNECTIONS, COIL & DAMPERS ARRANGEMENTS, PSYCHROMETRIC CHART ON EACH AHU, W/ COOLING COIL, SHOWING OUTDOOR RETURN, MIXED AIR TEMPS AT MINIMUM OUTDOOR AIR CONDITION, COIL LEAVING AIR CONDITION AT FULL COOLING COIL FLOW. TAB REPORT SHALL INCLUDE ALL NEBB OR AABC FORMS COMPLETED AS REQUIRED BY CERTIFICATION.

H. TAB CONTRACTOR SHALL CYCLE EACH AHU THROUGH CONTROL SEQUENCE OF OPERATION TO VERIFY PROPER OPERATION. ANY INCONSISTENCY W/ CONTRACT DOCUMENTS SHALL BE REPORTED TO A/E & TEMP CONTROL CONTRACTOR. TEMP CONTROL CONTRACTOR SHALL TAKE ACTION TO CORRECT ANY CONTROL INCONSISTENCY AS REPORTED BY TAB CONTRACTOR.

I. DURING INSTALLATION OF HVAC SYSTEMS TAB CONTRACTOR SHALL PERIODIC INSPECTION VISITS TO PROJECT SITE. PROPER PLACEMENT & INSTALLATION OF CONTROL & BALANCING DEVICES SHALL BE VERIFIED BY THESE INSPECTIONS. W/C SHALL MAKE ALL CORRECTIONS IN CONTROL & BALANCING DEVICE LOCATIONS AS REQUESTED BY TAB CONTRACTOR. FOLLOWING EACH VISIT TAB CONTRACTOR SHALL REPORT TO A/E ALL ITEMS NOTED, ACTION TAKEN & PROGRESS OF INSTALLATION.

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 - ELECTRICAL REQUIREMENTS

GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.

C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.

D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.

E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.

F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.

G. FINAL ACCEPTANCE OF WALL SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.

H. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.

I. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 - CONDUIT & CONDUCTORS

A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA UNLESS NOTED OTHERWISE.

B. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC, OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A. LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.

C. IMC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS. DO NOT DASH CHAIN LIGHT FIXTURES. PROVIDE HEALTH CARE RATED IMC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.

D. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.

E. PROVIDE INTERLEAVING SPACERS FOR MULT RUNS OF UC CONDUITS IN SAME TRENCH.

F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THW/THHN 600 VOLT, 75 DEG C. COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE MANUF RECOMMENDED RATING.

G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THW/THHN 600 VOLT, 75 DEG C.

H. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16200 - GROUNDING

A. SUPPLEMENT GROUNDING NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.

B. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.

C. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE SWITCHGEAR GRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.

D. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.

E. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.

F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.

G. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.

SECTION 16300 - ELECTRICAL EQUIPMENT

A. JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEET IN EITHER DIRECTION IF SO DIRECTED WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPOBOARD SURFACES.

PANELBOARDS

A. BRANCH CIRCUIT 208/240V PANELS SHALL BE CAPACITY SHOWN W/ TIN PLATED COPPER BUSING & BRACED FOR MINIMUM 10,000 AIC OR AS OTHERWISE NOTED OR REQUIRED (SERIES RATED ACCEPTABLE). BOLT ON CIRCUIT BREAKERS. 480V PANELS SAME EXCEPT 14,000A AIC MIN. MINIMUM 20" WIDE W/ GALV STEEL ENCLOSURE W/ HINGED DOOR & KEYS LOCK, COORD TRIM WITH MOUNTING LOCATION. PANELS TO BE RECESSED UNLESS OTHERWISE NOTED.

B. DISTRIBUTION PANELS SHALL BE CAPACITY SHOWN & SHALL BE SQUARE D I-LINE W/ TIN PLATED COPPER BUSING, 65KAIC MIN OR AS OTHERWISE NOTED/REQ'D. BOLT ON CIRCUIT BREAKERS (SERIES RATED ACCEPTABLE), GALV STEEL ENCLOSURE.

C. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.

SECTION 16350 - ELECTRICAL IDENTIFICATION

A. MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER, TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS

B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.

C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.

D. BRANCH CIRCUITS - IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED W/ INDELIBLE MARKER.

E. FIRE ALARM - NAMEPLATE ON EACH FIRE ALARM TERMINAL CABINET. LABEL ALL WIRING.

SECTION 16400 - WIRING DEVICES

A. CONVENIENCE OUTLETS - SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFC RATED DEVICES WHERE INDICATED AND AS REQ'D PER CODE.

B. LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.

C. WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERLOAD.

D. CEILING MOTION SWITCHES - SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS AND RELAYS.

E. WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.

F. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.

G. EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSSTOPPER, LITHONIA, SENSOR SWITCH.

EXECUTION

A. OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION.

SECTION 16500 - LUMINAIRES, LAMPS & BALLASTS

LUMINAIRES

A. PROVIDE LIGHTING FIXTURES W/ LAMPS & ACCESSORIES REQ'D FOR HANGING, COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & E/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.

B. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.

C. EQUIVALENT LUMINAIRES BY HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXTRONICS, LITELARM, EXIDE.

LAMPS

A. LAMPS SHALL BE TYPE RECOMMENDED BY FIXTURE MANUF. LAMP NONE ABOVE

MANUF RECOMMENDED MAX WATTAGE

B. 7-8 FLOOR - 32W, 75CRI MIN, 4100 DEG K, 2900 APPROX INTAL LUMENS

C. 7-8TH FLOOR - 54W HIGH OUTPUT, 85CRI MIN, 5000 DEG K, 5000 APPROX INTAL LUMENS UNLESS OTHERWISE CALLED FOR IN FIXTURE SCHEDULE.

D. EQUIVALENT LAMPS BY G.E., VENTURE, PHILLIPS OR SYLVANIA.

BALLASTS

A. FLUORESCENT - ELECTRONIC, <20XHD

B. METAL HALIDE - PULSE START

C. EQUIVALENT BY ADVANCE, G.E., MOTOROLA, OR MAGNETEK.

SECTION 16600 - FIRE ALARM SYSTEM

A. PROVIDE COMPLETE & OPERATIONAL MICROPROCESSOR BASED FIRE ALARM SYSTEM. SYSTEM SHALL MONITOR SPRINKLER SYSTEM TAMPER & FLOW SWITCHES, OPERATE AIR HANDLING UNIT DUCT SMOKE DETECTORS & UNIT SHUTDOWN, CONTROL NOTIFICATION APPLIANCES & PROVIDE THIRD PARTY/CENTRAL STATION MONITORING THROUGH DIGITAL ALARM COMMUNICATOR OR DALES.

B. SUBMIT SHOP DRAWINGS W/ WIRING DIAGRAMS & BATTERY CALCS FOR APPROVAL TO FIRE MARSHALL AND AHJ.

EXECUTION

A. INSTALLED & TESTED PER NFPA 72 & APPLICABLE SECTIONS OF NFPA 70. PROVIDE COMPLETE FIRE ALARM SYSTEM AS DESCRIBED HEREIN & SHOWN TO BE WIRED, CONNECTED, & IN FIRST CLASS CONDITION. INCLUDE SUFFICIENT CONTROL UNIT(S), ANNUNCIATOR(S), MANUAL STATIONS, AUTOMATIC FIRE DETECTORS, SMOKE DETECTORS, AUDIBLE & VISIBLE NOTIFICATION APPLIANCES, WIRING, TERMINATIONS, ELECTRICAL BOXES, & ALL NECESSARY MATERIAL FOR COMPLETE OPERATING SYSTEM.

B. SYSTEM SHALL BE UL LISTED.

C. SYSTEM WIRING: WIRE & CABLE SHALL BE LISTED FOR ITS INTENDED USE BY AN APPROVAL AGENCY ACCEPTABLE TO AHJ & SHALL BE INSTALLED IN ACCORDANCE W/ APPROPRIATE ARTICLES FROM CURRENT APPROVED EDITION OF NEC.



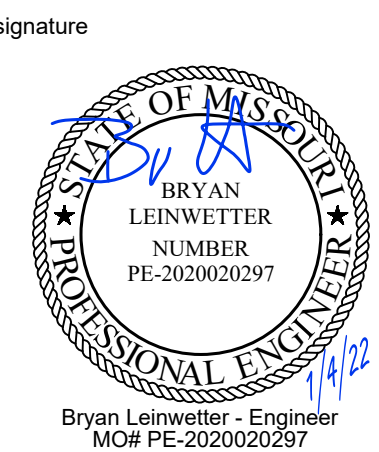
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project number

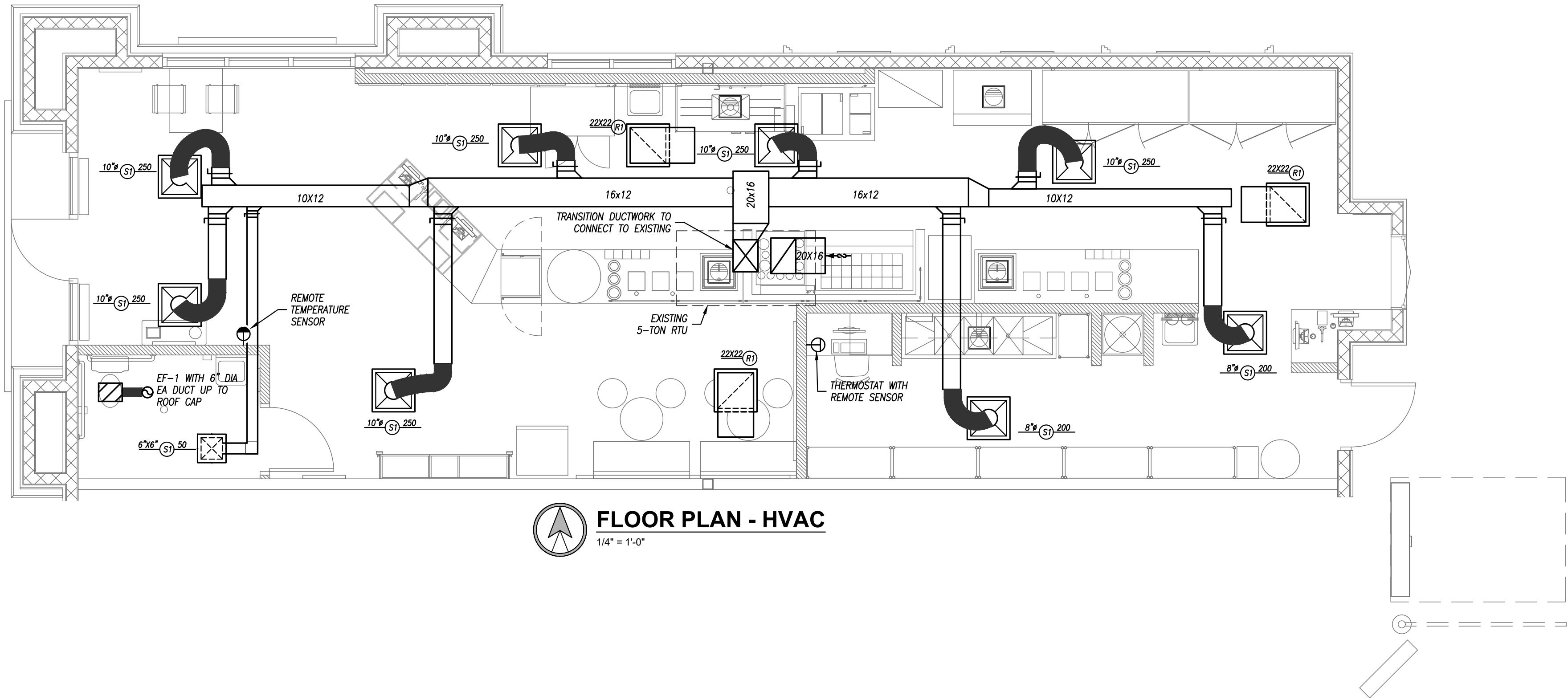
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MEP
SPECIFICATIONS

ME201



FLOOR PLAN - HVAC
1/4" = 1'-0"

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	STYLE	SERVICE	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	FINISH COLOR	REMARKS
S1	TITUS	TMS	SQUARE CEILING	SUPPLY	GRID	24x24	AS INDICATED	NO	WHITE	---
R1	TITUS	350RL	SQUARE CEILING	RETURN	GRID	24x24	AS INDICATED	NO	WHITE	1

REMARKS:
1. PROVIDE WITH ALL NECESSARY MOUNTING HARDWARE.

EXHAUST FAN SCHEDULE

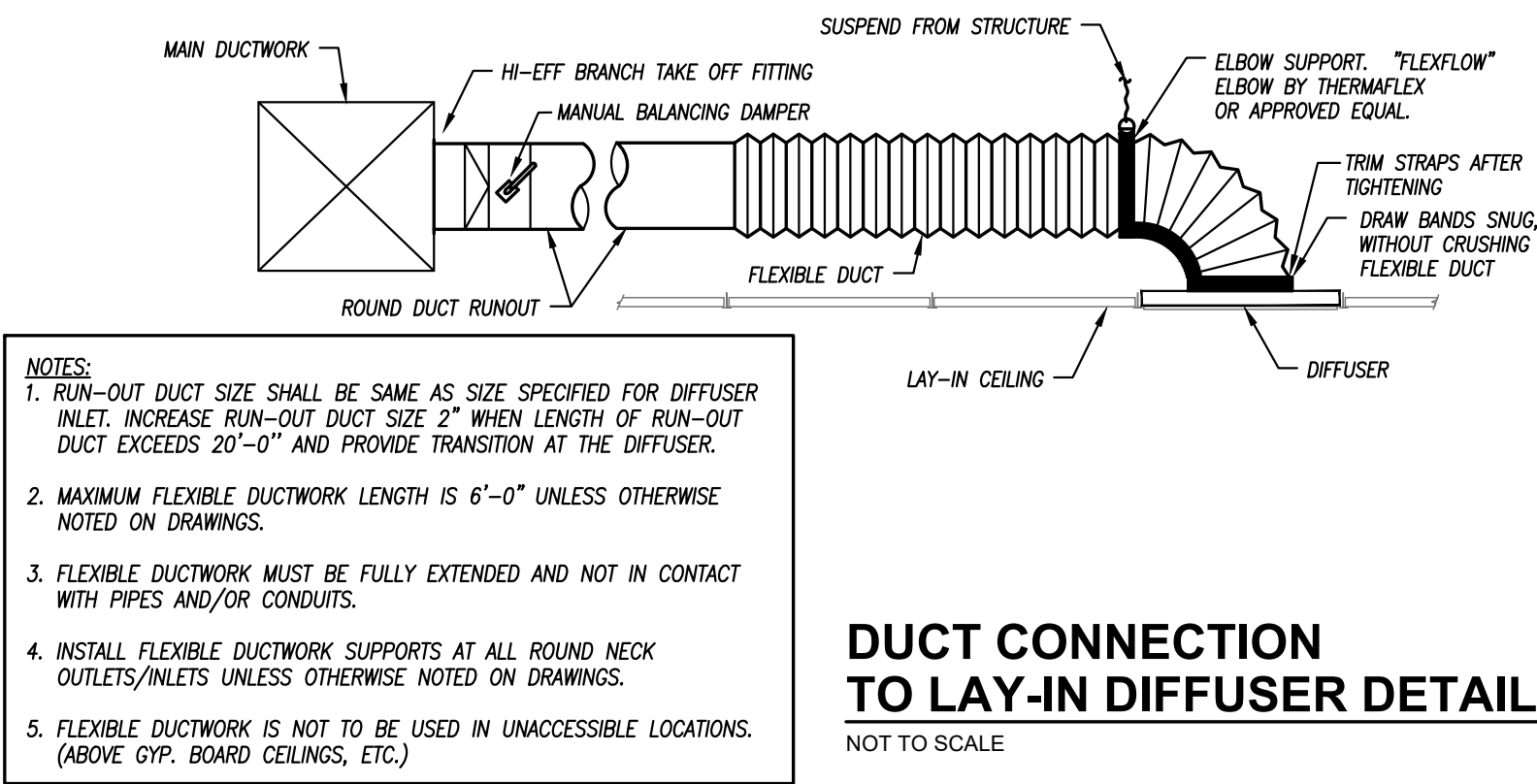
PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	SERVICE	CFM	STATIC PRESSURE	ELECTRICAL	DRIVE	DISCONNECT	DAMPER	NOTES
EF-1	GREENHECK	SP-B90	CEILING	EXHAUST	75	1/4"	50 WATTS, 120V, 1 PHASE	DIRECT	YES	BACKDRAFT	1

1. PROVIDE 12" ROOF CURB WITH CURB CAP MODEL RCC-7 WITH INTEGRAL BIRDSCREEN.

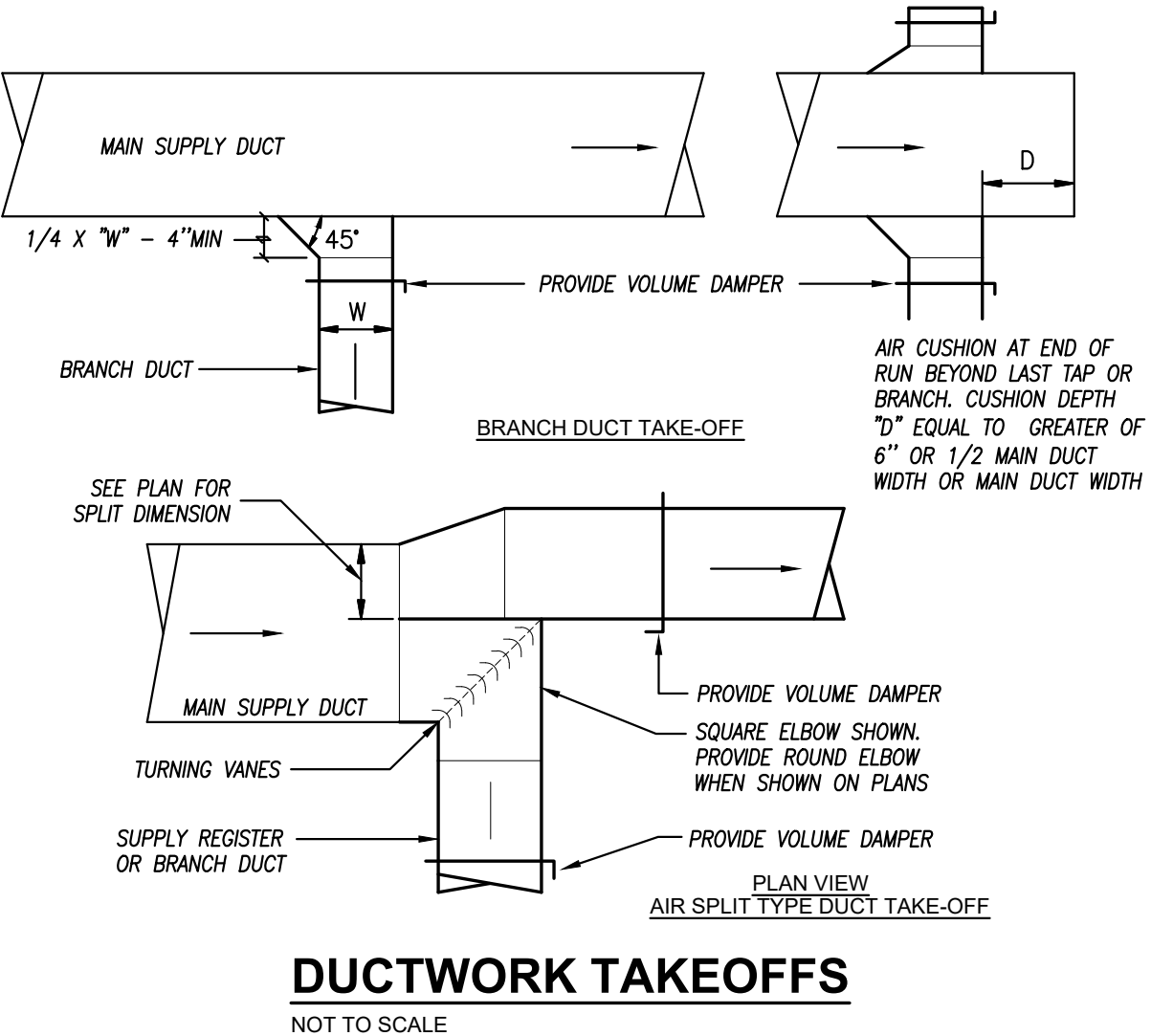
DUCTWORK INSULATION SCHEDULE

PURPOSE	DUCT		STYLE	INSULATION			THICKNESS	NOTES
	DUTY	LOCATION		MATERIAL	APPLICATION			
SUPPLY	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED		1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED		1-1/2"	---
RETURN	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED		1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED		1-1/2"	---
		RETURN/TRANSFER BOOTS	RECTANGULAR	FIBERGLASS	LINED		1/2"	---
EXHAUST	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED		1/2"	---
		CONCEALED	ROUND	FIBERGLASS	LINED		1/2"	---

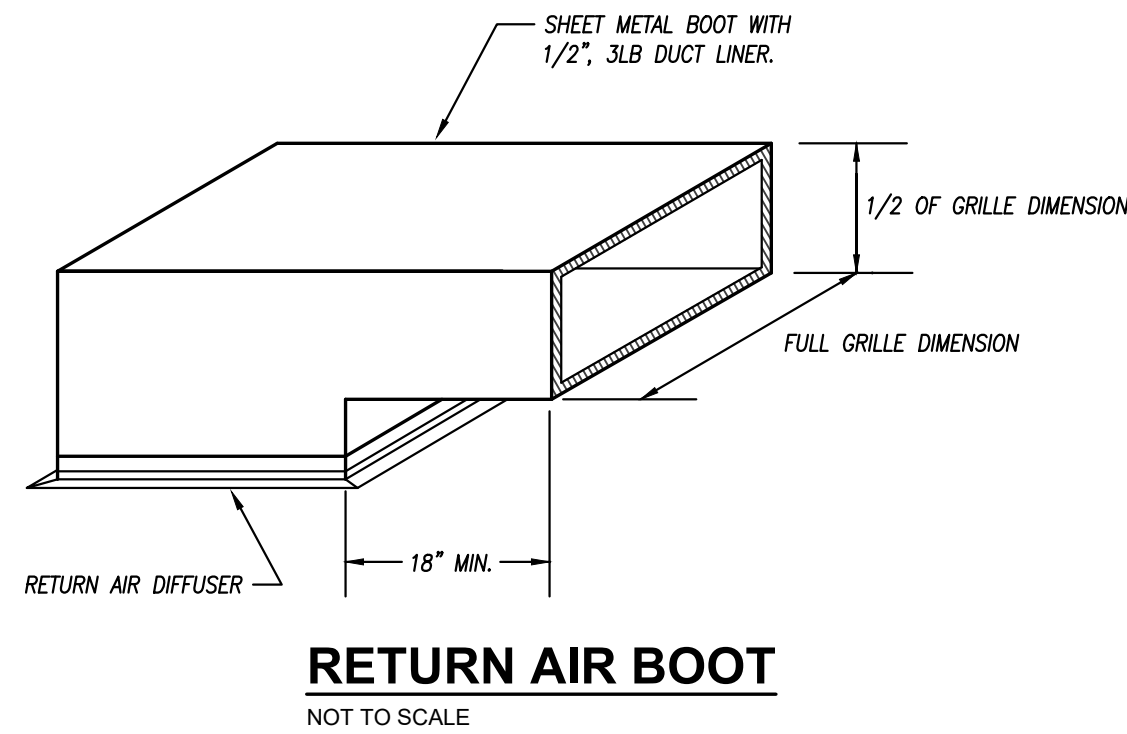
GENERAL REMARKS (APPLICABLE TO ALL TYPES):
1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2010 REQUIREMENTS AT A MINIMUM.
3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.



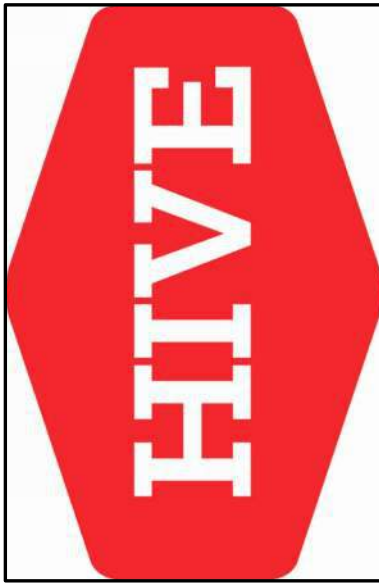
DUCT CONNECTION
TO LAY-IN DIFFUSER DETAIL
NOT TO SCALE



DUCTWORK TAKEOFFS
NOT TO SCALE



RETURN AIR BOOT
NOT TO SCALE



SMOOTHIE KING

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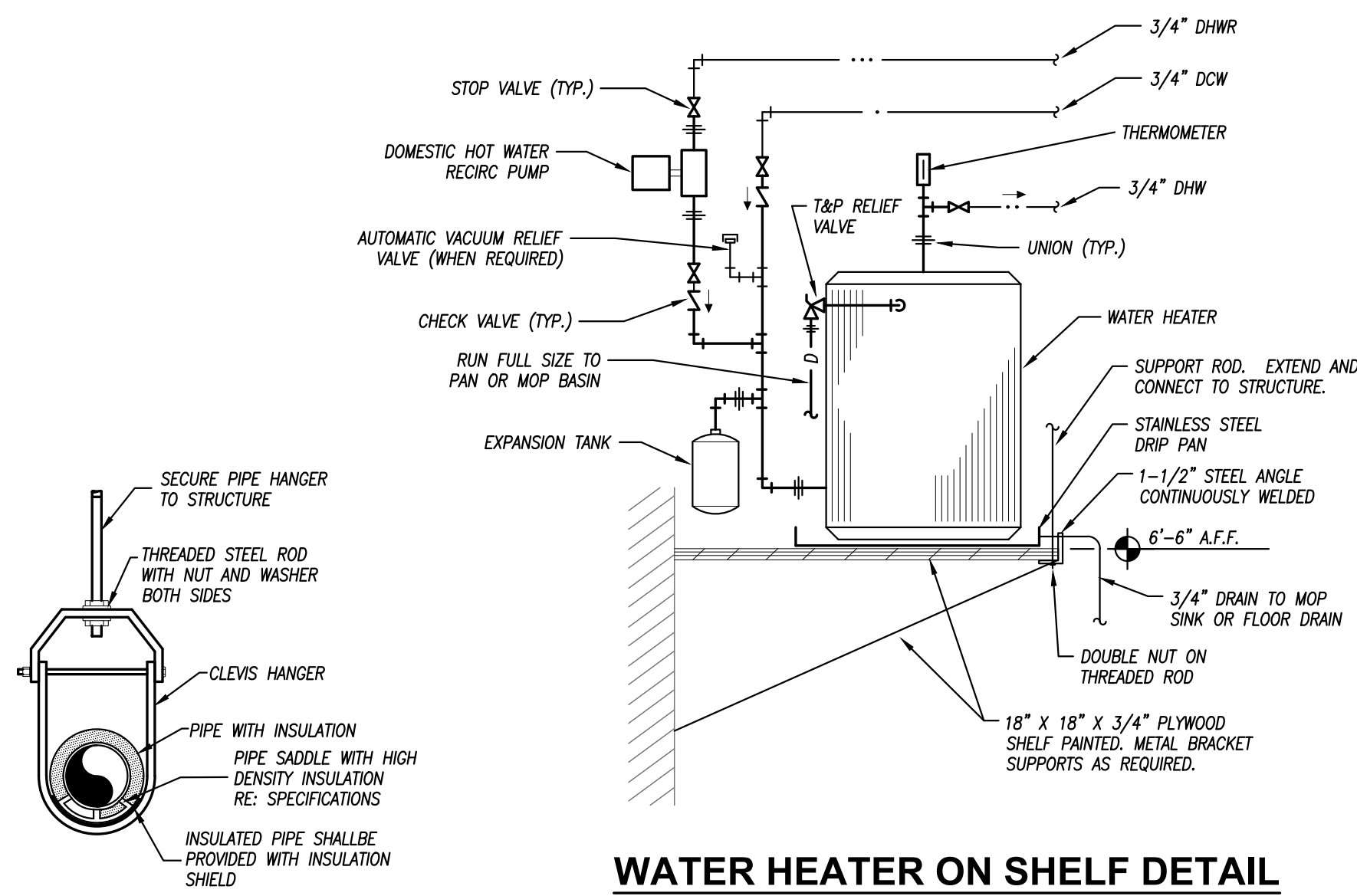
date 1/4/22

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PLUMBING

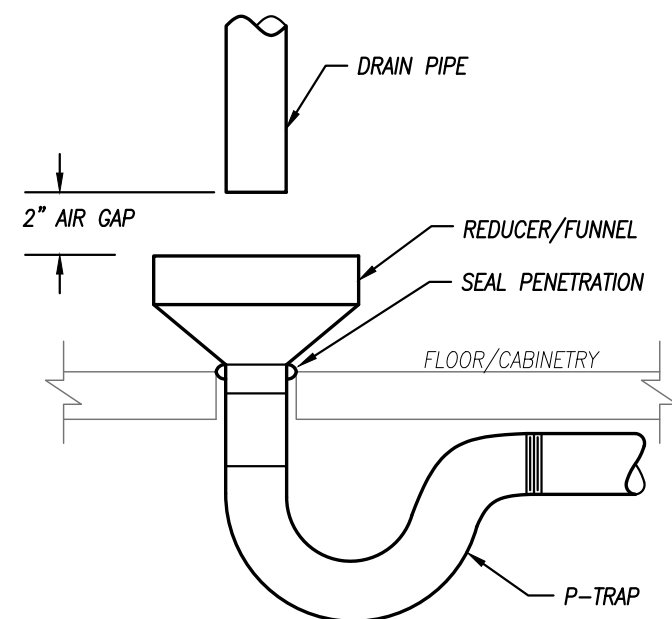
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M101

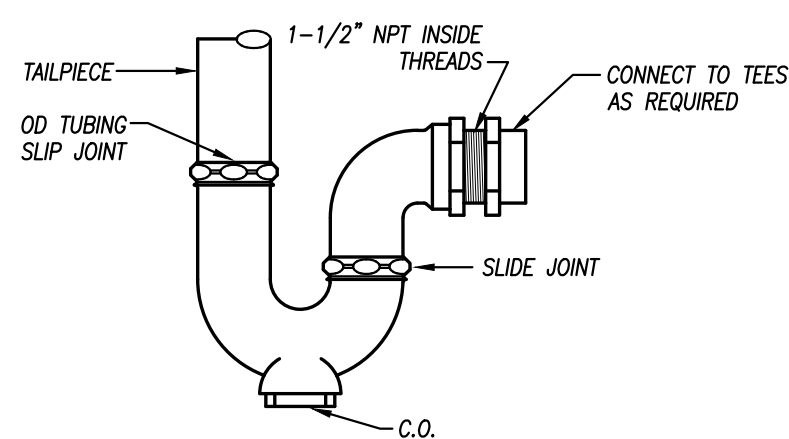


WATER HEATER ON SHELF DETAIL
NOT TO SCALE

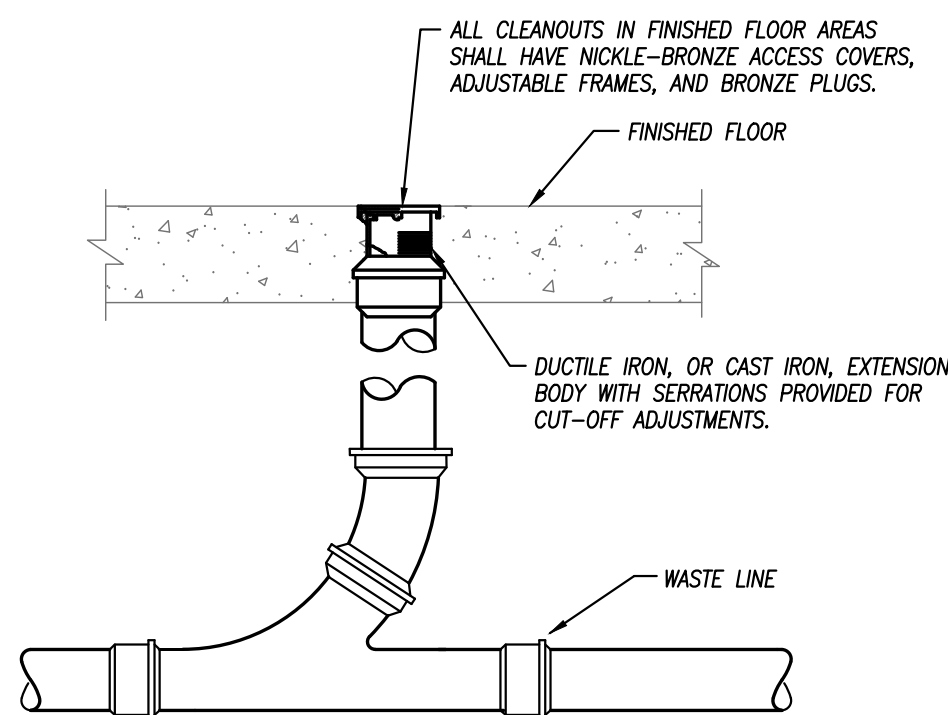
PIPE HANGER DETAIL
NOT TO SCALE



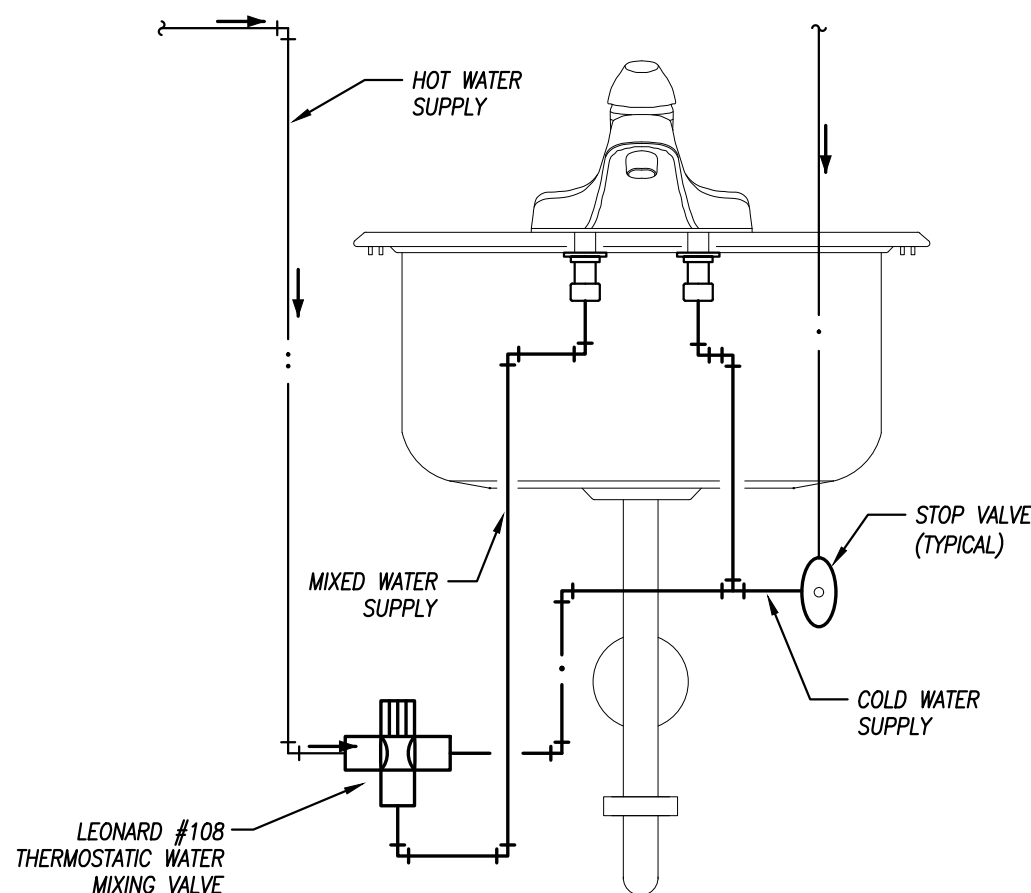
AIR GAP DETAIL
NOT TO SCALE



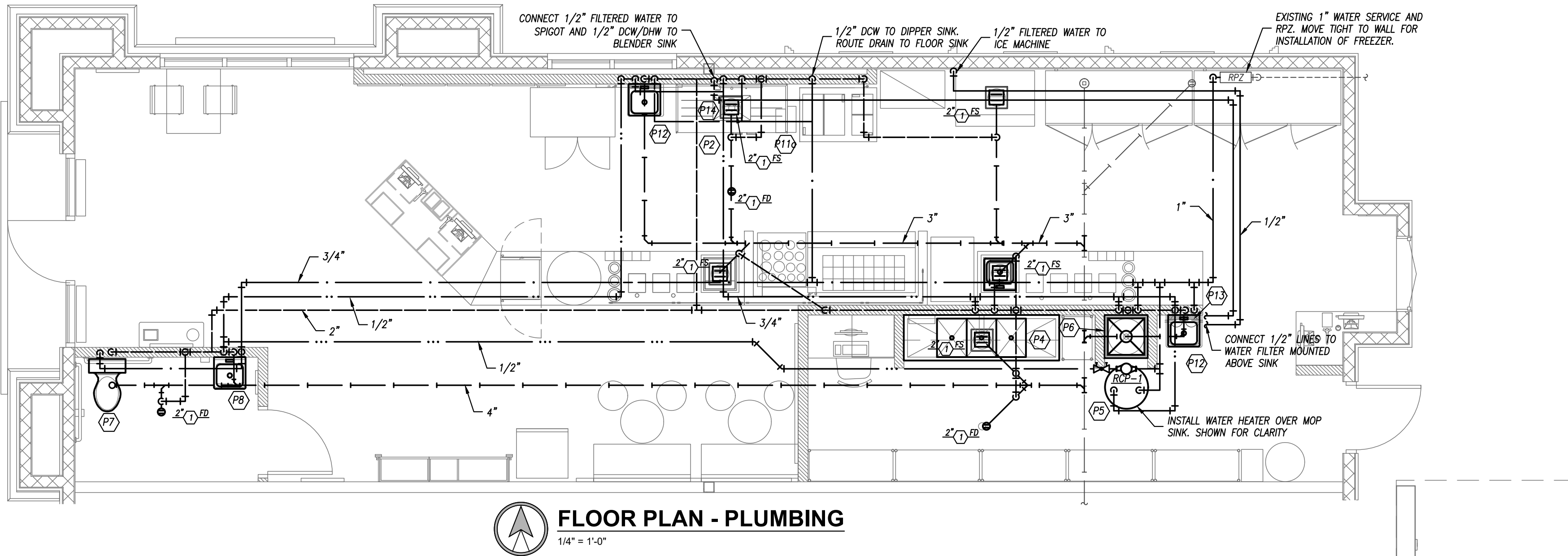
P-TRAP DETAIL
NOT TO SCALE



FLOOR CLEANOUT DETAIL
NOT TO SCALE



HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC
NOT TO SCALE



FLOOR PLAN - PLUMBING
1/4" = 1'-0"

PLUMBING SCHEDULE												
MARK	QTY	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	MANUFACTURER	MODEL #	SIZE	FAUCET	WATER SUPPLY	DRAIN	COMMENTS
P1	0	ZEE	FF&E	FF&E / G.C.	S/S HAND SINK	FF&E SUPPLIER		14" L X 10"W X 7.5"D BOWL SIZE	ELKAY LK-4121	1/2" HOT AND COLD	2"DRAIN	HAND SINK CABINET W/ DROP IN S.S. HAND SINK
P2	1	ZEE	FF&E	FF&E / G.C.	"BLENDER" SINK	FF&E SUPPLIER	BOWL IN CENTER	62 "L X 27.5"W	SPIGOT/ PRE-RINSE FAUCET, T&S	1/2" HOT AND COLD	2"DRAIN	35 STRAINER, MCGUIRE MODEL 8903 P-TRAP WITH CLEANOUT PROVIDE FLOOR SINK BOWL SIZE 24"W X 16"D X 12" H
P3	1	ZEE	FF&E	G.C.	SANITARY CHEMICAL DISPENSER SYSTEM	SSDC	---	---	---	---	---	SEE INSTALLATION GUIDE PROVIDED BY FF&E
P4	1	ZEE	FF&E	G.C.	S/S 3-COMP SINK	FF&E SUPPLIER	---	84.25"W X 25.5"D	INCLUDED W/ PRE-RINSE FAUCET, T&S	3/4" HOT AND COLD	FLOOR SINK	DRAINBOARD ON BOTH SIDES-PROVIDE FLOOR SINK; (3)SINK BOWLS EA. 16" X 20" X 12"H SILICON AROUND SINK AT WALL
P5	1	G.C.	G.C.	G.C.	WATER HEATER	COMMERCIAL GRADE ONLY-SUBMIT SPECS	50 GAL. ELEC. OR AS REQUIRED BY CODE	21" X 29.5"H	---	3/4" NPT	2"DRAIN	RELIEF VALVE 3/4" NPT INSTALL PER CODE (QUICK RECOVERY WATER HEATER) - REF DTL 6/A-7.
P6	1	G.C.	G.C.	G.C.	MOP SINK	FIAT	MSB-2424	24"W X 24"D X 10"H	10" LONG KITCHEN SPOUT	1/2" HOT AND COLD	2"DRAIN	---
P7	1	G.C.	G.C.	G.C.	WALL HUNG LAVATORY	AMERICAN STD.	0355.012		CHICAGO FAUCETS 802-VE64XKABCP	1/2" HOT AND COLD	2"DRAIN	TOP OF FRONT RIM MOUNTED AT 34" AFF
P8	1	G.C.	G.C.	G.C.	TOILET (ADA COMPLIANT)	AMERICAN STD.	2467.016	20"W X 18"D	---	1/2" COLD	4"SEWER	PROVIDE OPEN FRONT SEAT. INSTALL TOP OF SEAT @ 18" AFF
P10	0	G.C.	G.C.	G.C.	NOT USED	AMERICAN STD.	---	---	---	---	---	---
P11	0	ZEE	FF&E	FF&E / G.C.	DIPPERWELL	THE DIPWELL CO.	10" STANDARD	10"L X 3"W X 6"H		1/2" COLD	101/16" DRAIN	DRAIN TO BLENDER SINK FLOOR SINK. ATTACH TO SIDE OF BLENDER CABINET. DRAIN TO BE MINIMALLY EXPOSED ON OUTSIDE OF CABINET.
P11a	1	ZEE	FF&E	FF&E / G.C.	DIPPERWELL	WESTERN PIONEER	16.25" STANDARD	16.25"L X 4"W X 4"H		1/2" COLD	101/16" DRAIN	OPTION: DRAIN TO BLENDER SINK FLOOR SINK. ATTACH TO SIDE OF BLENDER CABINET. DRAIN TO BE MINIMALLY EXPOSED ON OUTSIDE OF CABINET.
P12	2	ZEE	FF&E	FF&E / G.C.	S/S HAND SINK	FF&E SUPPLIER	MMS10900101CJBF	13 1/2" L X 9 3/4" W X 6 3/4" D BOWL SIZE	INCLUDED	1/2" HOT AND COLD	2"DRAIN	WITH SPLASH GUARDS AT REAR AND SIDES- EACH HAND SINK TO INCLUDE S.S. PAPER TOWEL HOLDER AND S.S. SOAP DISPENSER W/ ORDER.
P13	1	ZEE	FF&E	G.C.	WATER FILTER	WESTERN PURIFIER	SK-HFWFS07	16" H X 25" W X 9"D		---	---	1/2" COPPER TUBING TO SPIGOT. INDEPENDENT 1/2" COPPER TUBING TO ICE MACHINE.
P14	1	ZEE	FF&E	G.C.	WATER SPIGOT	WESTERN PURIFIER	---	---		---	---	TUBING TO SPIGOT FROM FILTER. REF. DTL 6/A-3
P15	1*	ZEE	G.C.	G.C.	GREASE TRAP	---	---		---	---	---	* PLUMBING ENGINEER TO CONFIRM IF GREASE TRAP REQUIRED BY LOCAL JURISDICTION AND TO SIZE, SPECIFY, AND LOCATED IF REQUIRED.
SEE SHEET A-50 FOR ICE MACHINE SPECS ON ELECT. SCHEDULE E8					ICE CUBER MACHINE	HOSHIZAKI	---	---	---	FILTERED WATER, 1" FEED FROM WATER FILTER		** SEE NOTES 7 & 10
					ICE CUBER BIN	HOSHIZAKI	---	---	---	---	3/4" FPT DRAIN	ALL DRAINS TO BE ROUTED SEPARATELY

DOMESTIC RECIRCULATION PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GPM	HEAD (FT. WC)	HP	MAX. RPM	ELECTRICAL	NOTES
RCP-1	BELL & GOSSETT	PL30	10.0	15.0	1/12	2,650	120V / 1 PH	1,2,3
REMARKS: 1. ALL BRONZE CONSTRUCTION. 2. PROVIDE WITH MOTOR RATED DISCONNECT, AQUASTAT AND TIMER FOR OPERATION OF PUMP 3. MOUNT PUMP AND ACCESSORIES NEAR WATER HEATER AND NO HIGHER THAN 6' AFF.								

FLOOR / ROOF DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"Ø	2"	1
FS-1	WADE	9100	FLOOR SINK	8"x8"	2"	2
REMARKS: 1. PROVIDE WITH NICKEL BRONZE TOP. 2. PROVIDE 1/4 OPEN GRATE						

WATER HEATER SCHEDULE

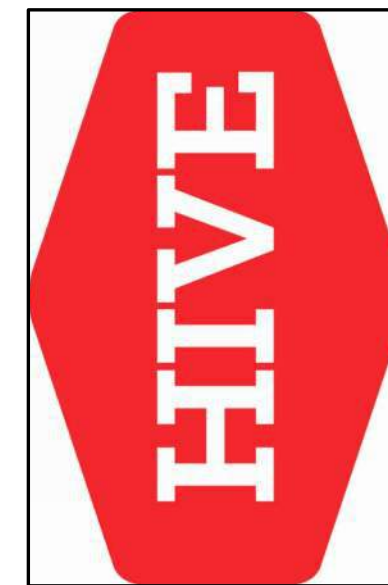
PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	CAPACITY	ELECTRICAL	NOTES
WATER HEATER-1	AO SMITH	DEL-50	50	6 KW	208V, 3PH, 20AMP	1

NOTES LEGEND
1 - PROVIDE WALL MOUNT SUPPORT

PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	ELASTOMERIC	3/4" (HOT ONLY)
DOMESTIC COLD WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1-1/2"
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	-----	-----
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	-----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	-----
DRINKING FOUNT. DRAIN	ALL	----	----	----	----	YES	ELASTOMERIC	1/2"

NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.



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Bryan Leinwetter - Engineer
MO# PE-2020020297

project number

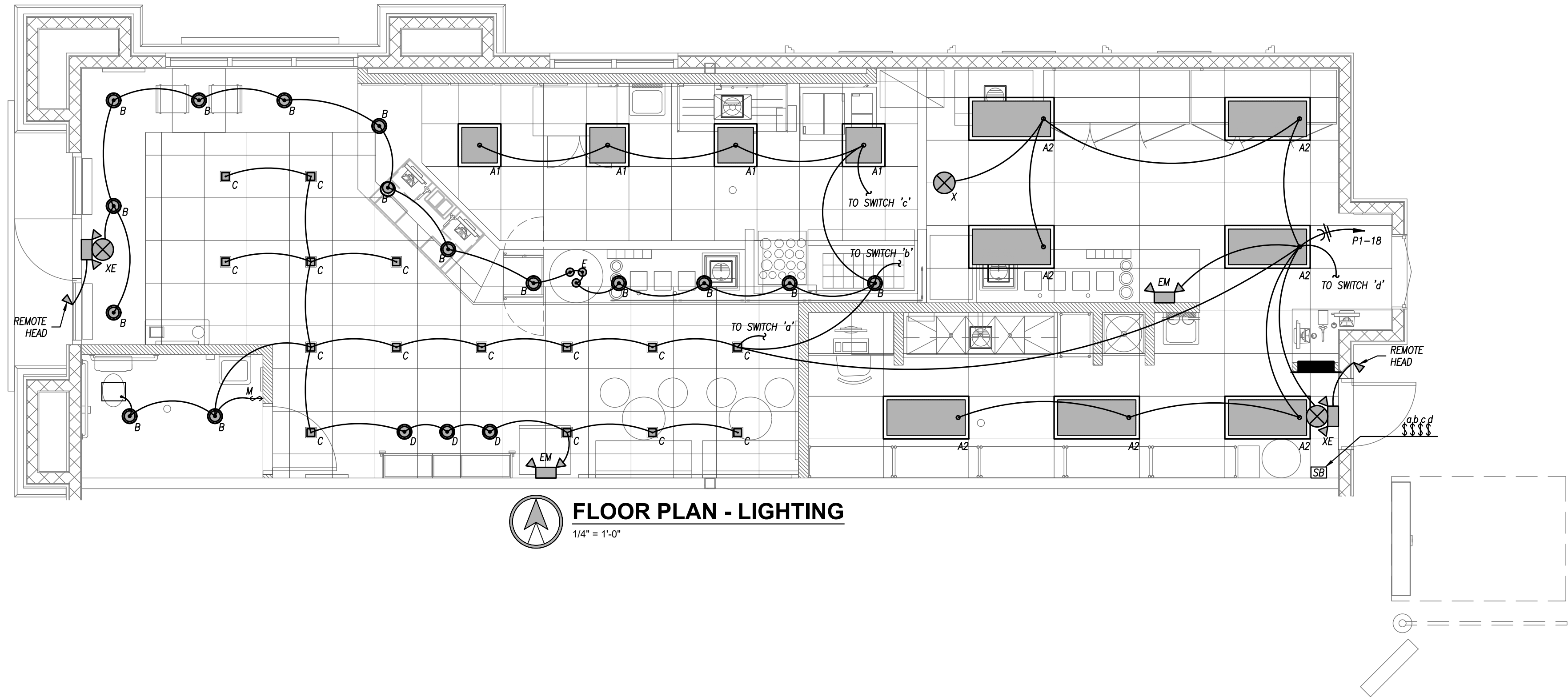
date 1/4/22

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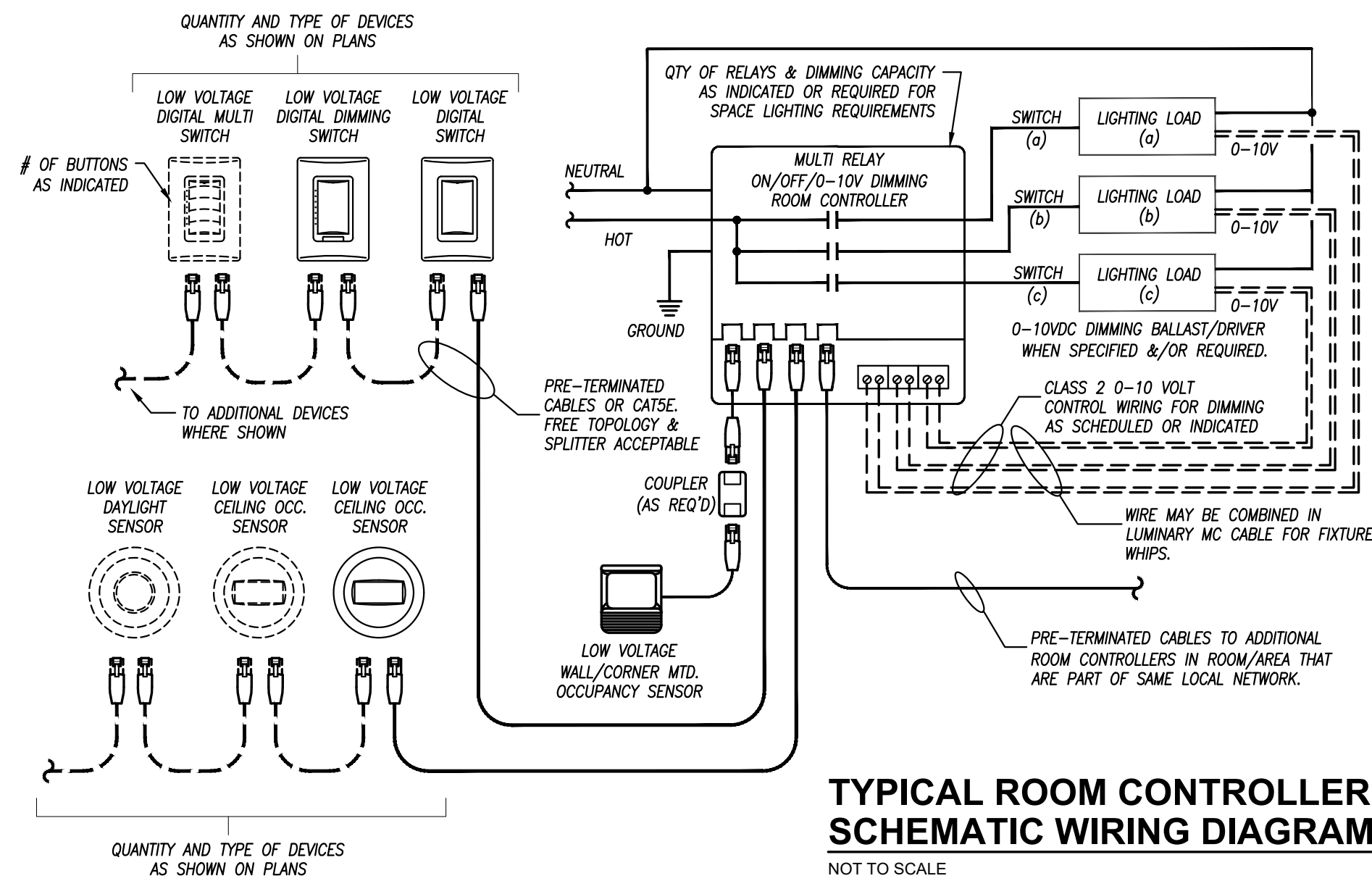
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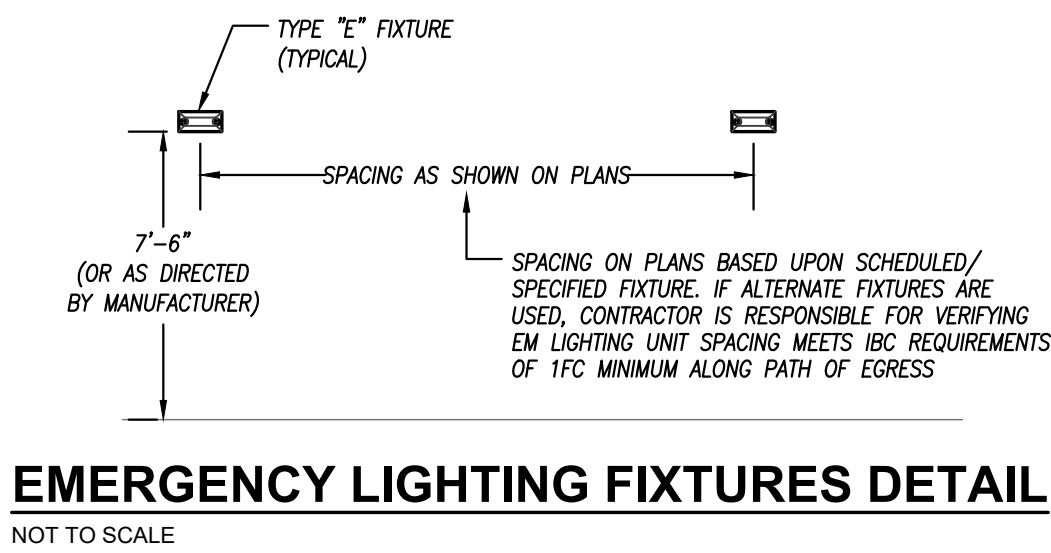
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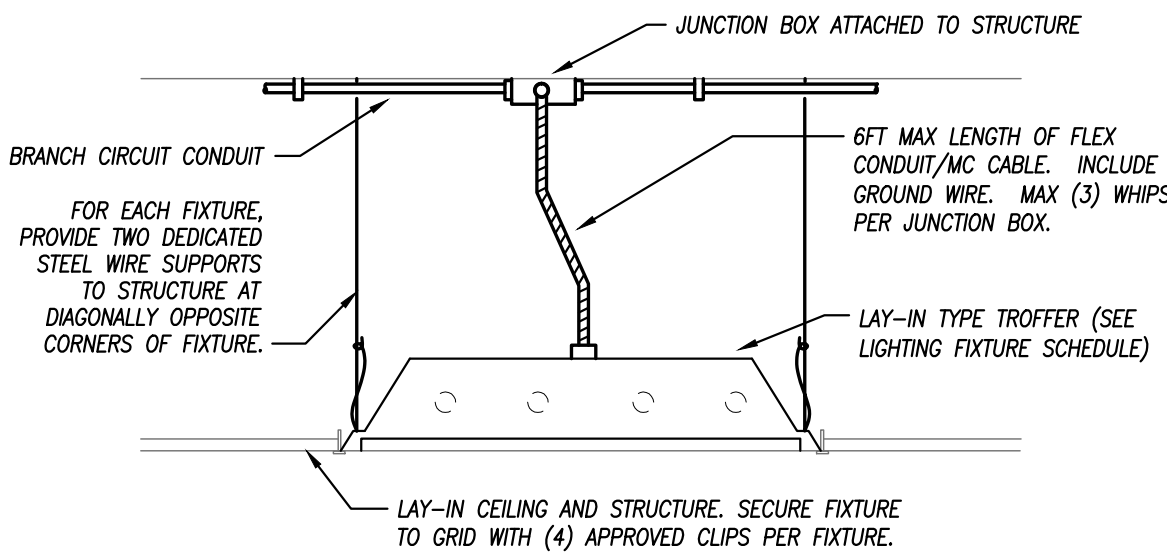
FLOOR PLAN - LIGHTING
1/4" = 1'-0"



TYPICAL ROOM CONTROLLER
SCHEMATIC WIRING DIAGRAM
NOT TO SCALE



EMERGENCY LIGHTING FIXTURES DETAIL
NOT TO SCALE



TYPICAL TROFFER SUPPORT AND WIRING
NOT TO SCALE

LIGHTING & MECHANICAL LEGEND						
MARK	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	COMMENTS	
C	ZEE	LIGHTING VENDOR	G.C.	LED 4x4 RECESSED DOWN LIGHT: NORA - NHOICD-48LE3 FIXTURE. INSTALL WITH NIO-4SNDSD-30X-HN/10	DIMENSIONS - 7-5/8 x 12 x 4", 4.5" x 4.5" FIXTURE	
E	ZEE	LIGHTING VENDOR	G.C.	JAMIE YOUNG PENDANT- CUSTOM - SCURY-SMCE PHILIPS (1) 40W A19-SHATTER PROOF LAMP- 7" RD X 9" H.	TO BE INSTALLED OVER HANDOFF AREA ABOVE BAR.	
D	ZEE	LIGHTING VENDOR	G.C.	LED DIRECTIONAL DOWN LIGHT: NORA - NHOICD-48LE3 FIXTURE. INSTALL WITH NIO-4RD-30X-HN/10	DIRECTIONAL RECESSED BULKHEAD LIGHTING FOCUSED ON RETAIL CABINERY	
B	ZEE	LIGHTING VENDOR	G.C.	6" LED CAN LIGHTS: NORA - NHIC-27UMARAT LOW PROFILE FIXTURE. INSTALL WITH DLB8 RECESSED LED DOWN LIGHT	TO BE INSTALLED WITHIN OVERHEAD SOFFITS, PERIMETER BULKHEADS & RESTROOMS	
A1	ZEE	LIGHTING VENDOR	G.C.	2' X 2' LED PANEL: MAXLITE - MLFP22EP3535 - STANDARD WHITE LAMP 3500K	IN FRONT PREP AREA & GUEST CORRIDORS	
A2	ZEE	LIGHTING VENDOR	G.C.	2' X 4' LED PANEL: MAXLITE - MLFP24EP3535 - STANDARD WHITE LAMP 3500K	IN BACK PREP AREA	
X	ZEE	G.C.	G.C.	LED EMERGENCY EXIT SIGN - BOLT EXRXTU2RWEM-SINGLE FACE-RED-WHITE-BATTERYBACKUP	INSTALL AS SHOWN ON RCP	
EM	ZEE	G.C.	G.C.	LED EMERGENCY LIGHT - WALL PACK - LEDR-1-SDT-HL	INSTALL AS SHOWN ON RCP. LOCATED 12" BELOW CEILING OR BULKHEAD	
XE	ZEE	G.C.	G.C.	LED EMERGENCY EXIT & EMERGENCY COMBINATION LIGHT MODEL #LEDXCTU-SINGLE FACE-R-W-RCHL	INSTALL AS SHOWN ON RCP ABOVE EXIT DOORS	



pkmr
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21.675

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project number

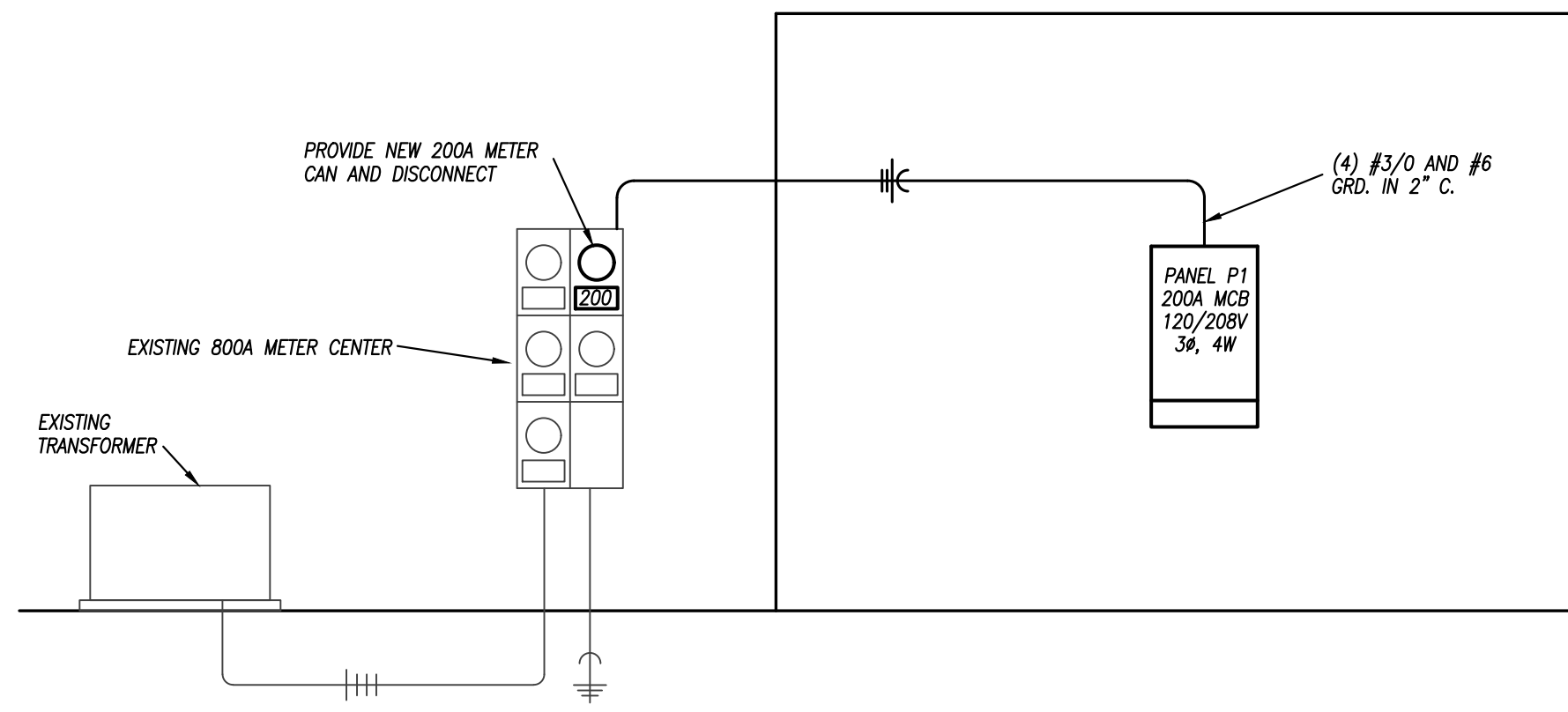
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LIGHTING

sheet number

E101



ELECTRICAL RISER DIAGRAM
NO SCALE

SERVICE ENTRANCE EQUIPMENT LABEL PHENOLIC
EQUIPMENT FULLY-RATED AT 65,000 AMPERES RMS SYM
AVAILABLE FAULT CURRENT: 61,603 AMPERES
DATE CALCULATED: 12/06/2015

SWITCHBOARD LABEL PHENOLIC
SWITCHBOARD SWDP1
FED FROM UTILITY COMPANY TRANSFORMER
208/120V, 1200A, 3-PHASE

ELECTRICAL PANELBOARD LABEL PHENOLIC
PANELBOARD LN1
FED FROM SWITCHBOARD SWDP1 IN ROOM #332
208/120V, 200A, 3-PHASE

DISCONNECT SWITCH/STARTER EQUIPMENT LABEL PHENOLIC
RTU-1A
LP1-CKT 32,34,36

REMOTE DUCT DETECTOR TEST
RTU-1A
PRINTED LABEL
(CLEAR W/ WHITE TEXT)

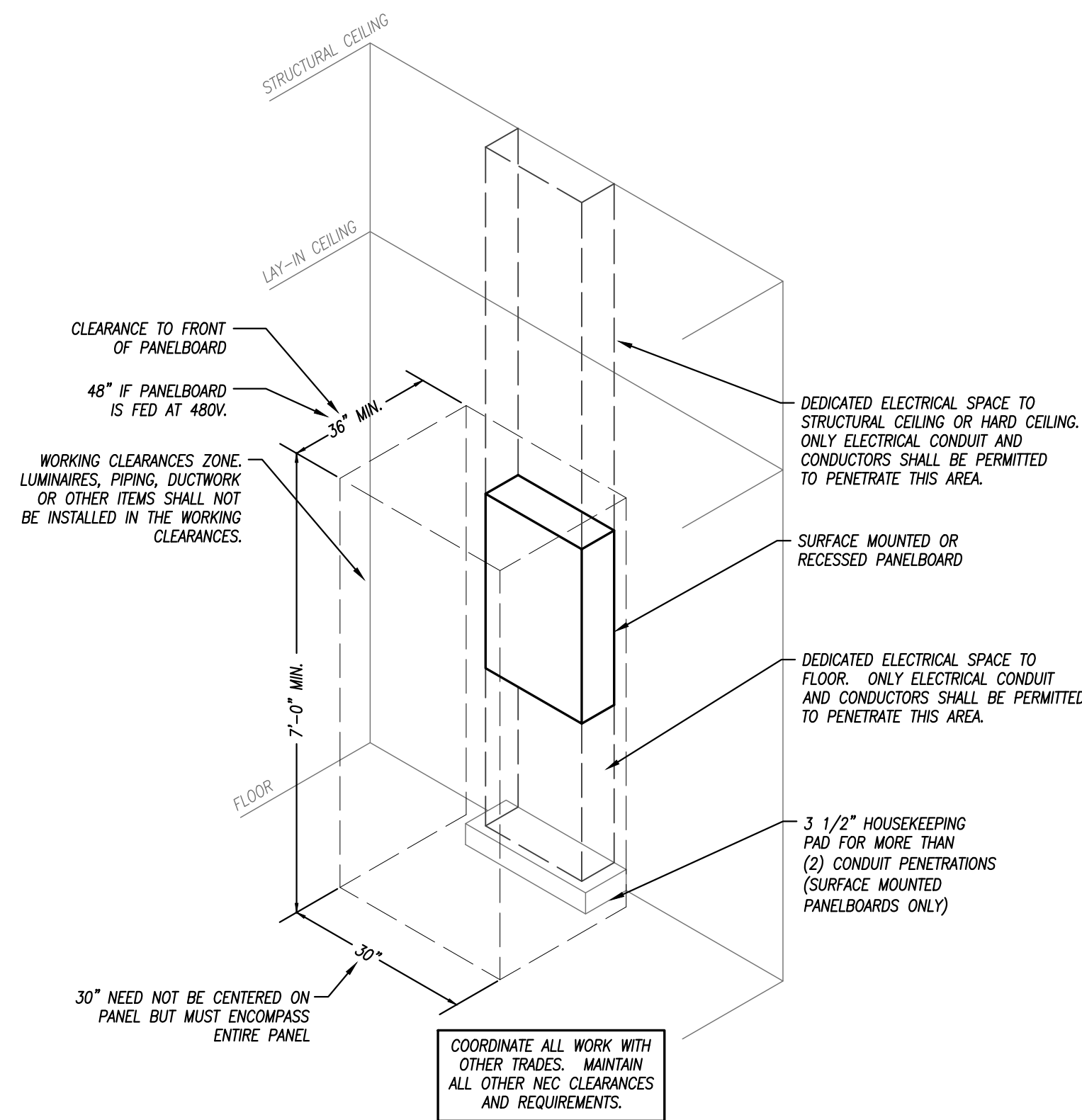
LT-02
PROVIDE CLEAR PRINTED LABEL W/ WHITE LETTERS FOR EACH COVERPLATE WITH CIRCUIT NUMBER
IVORY DEVICE COLOR (VERIFY W/ ARCHITECT)
302 SS BRUSHED PLATE

SWITCHES

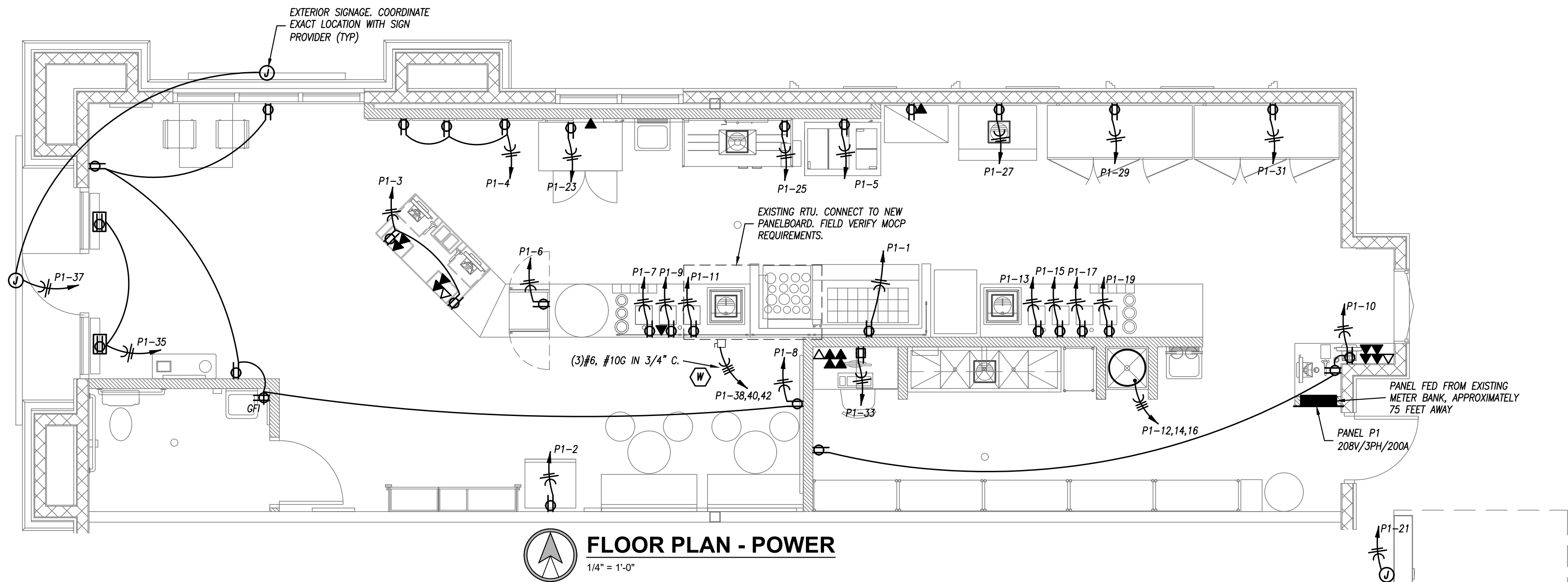
LT-02
PROVIDE CLEAR PRINTED LABEL W/ WHITE LETTERS FOR EACH COVERPLATE WITH CIRCUIT NUMBER
"NORMAL POWER": IVORY (VERIFY W/ ARCH)
"CLEAN-IG; COMPUTER": ORANGE ISOL GRD
"EMERGENCY": RED
"SURGE SUPPRESSED": BLUE
302 SS BRUSHED PLATE

RECEPTACLES

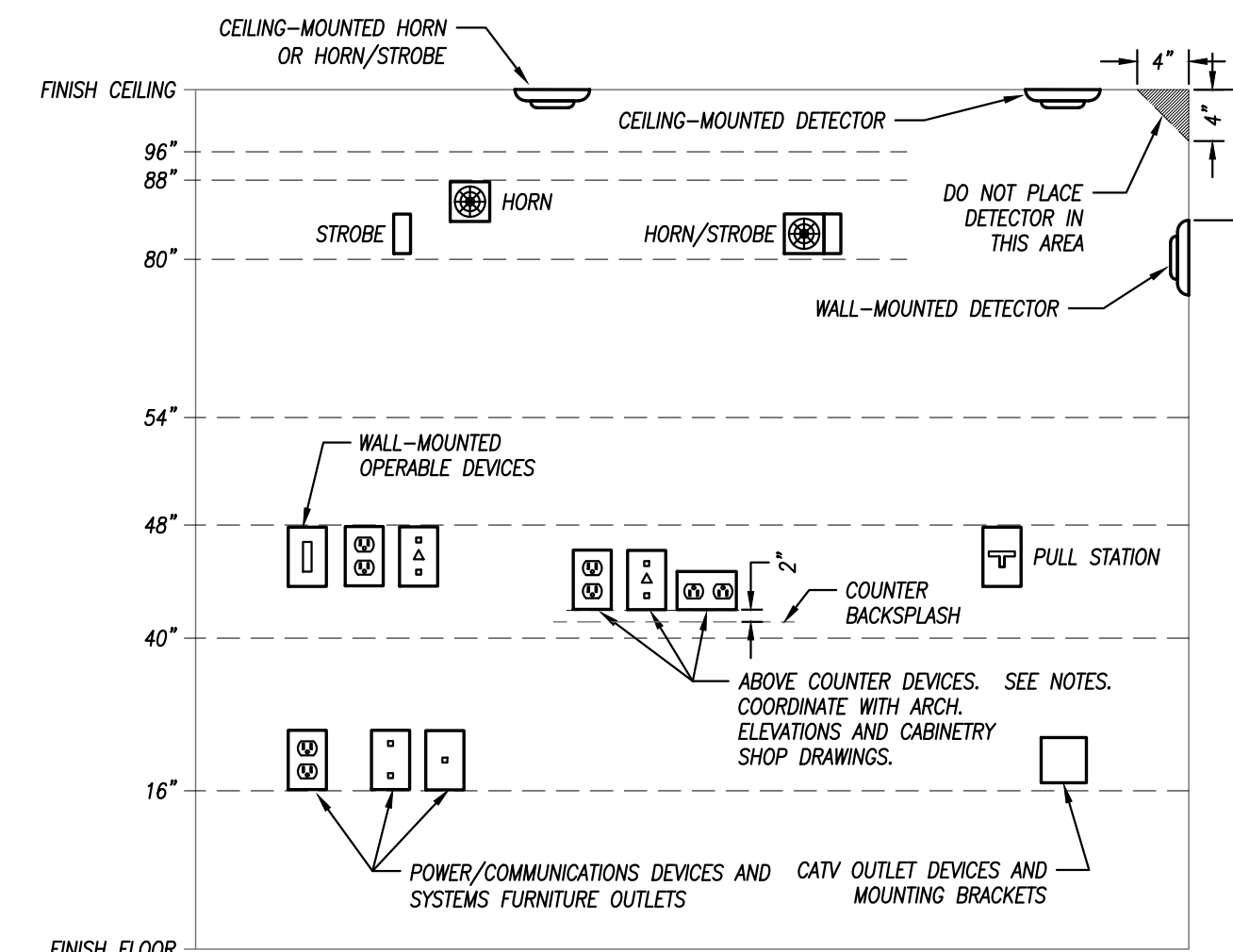
LABELING DETAIL
NOT TO SCALE



TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



FLOOR PLAN - POWER
1/4" = 1'-0"



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.
VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).
AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA).
FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.
WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.
WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

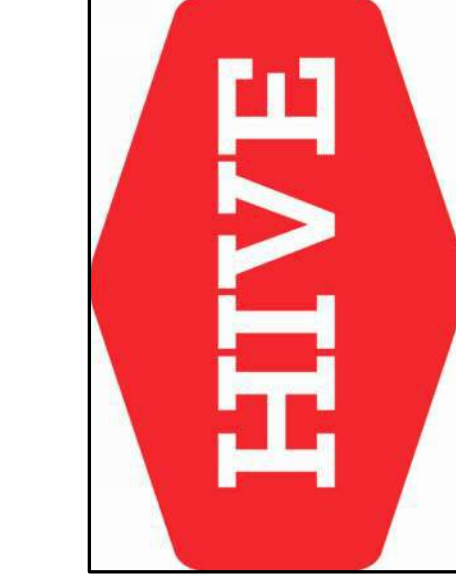
MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES
NOT TO SCALE

PANELBOARD SCHEDULE												
PANEL DESIGNATION: P1						CIRCUIT #	MAIN LUG AMPS: 225 MAIN BREAKER: 200 VOLTAGE: 208/120 PHASE/WIRE: 3Ø, 4W					SCCR RATING (AIC): 22,000
MOUNTING: RECESSED LOCATION: BACK ROOM												
DESCRIPTION	PHASE			C/B			C/B		PHASE			DESCRIPTION
	A	B	C	TRIP	POLE		POLE	TRIP	A	B	C	
PREP TABLE	1068			20	1	1	2	1	20	912		COOLER
POS		360		20	1	3	4	1	20		480	MENU BOARD
FREEZER(G)			684	20	1	5	6	1	20		204	PICKUP REFRIGERATOR(G)
BLENDER(G)	1800			20	1	7	8	1	20	900		GENERAL RECEPTACLES
BLENDER(G)		1800		20	1	9	10	1	20		540	DRIVE THRU POS(G)
BLENDER(G)			1800	20	1	11	12	3	20		2000	WATER HEATER
BLENDER(G)	1800			20	1	13	14	-	-	2000		-
BLENDER(G)		1800		20	1	15	16	-	-		2000	-
BLENDER(G)			1800	20	1	17	18	1	-	-		-
BLENDER(G)	1800			20	1	19	20	1	20	-		SPARE
MENU/CANOPY		500		20	1	21	22	1	20	-		SPARE
REFRIGERATOR(G)			540	20	1	23	24	1	20	-		SPARE
WATER DISPENSER(G)	180			20	1	25	26	1	20	-		SPARE
ICE MACHINE(G)		1500		20	1	27	28	1	20	-		SPARE
REFRIGERATOR(G)			1356	20	1	29	30	1	20	-		SPARE
FREEZER(G)	1524			20	1	31	32	1	20	-		SPARE
REC-DESK		360		20	1	33	34	1	20	-		SPARE
SIGNAGE			960	20	1	35	36	1	20	-		SPARE
EXTERIOR SIGNAGE	1500			20	1	37	38	3	50	3359		EXISTING RTU
SPARE		-		20	1	39	40	-	-		3359	-
SPARE			-	20	1	41	42	-	-		3359	-
TOTALS	9672	6320	7140							7171	6379	5563
											TOTALS	

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	2,400	1.25	3,075
RECEPTACLES	4,620	10KVA + 50% REST	4,620
MOTORS	0	X + LARGEST + SUM OF REM	0
AIR CONDITIONING	10,076	1.00	10,076
SPACE HEATING	10,076	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	0	1.25	0
KITCHEN EQUIPMENT	15,168	0.65	9,859
NON-CONTINUOUS	9,920	1.00	9,920
MISC. LOADS 1	0	1.00	0
SIZING LOAD:		37,550	
SIZING LOAD (AMPS):		104	

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	16,843	140.3
B	12,699	105.7
C	12,703	105.8
TOTALS	42,244	117.3

REMARKS:
1. CUTLER HAMMER POW-R-LINE 1A OR EQUAL.
2. PROVIDE WITH GFCI BREAKER WHERE (G) SHOWN
3.
4.
5.



pkmr
ENGINEERS
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785.273.2447 WWW.PKMRENGINEERING.COM
MO State Certificate of Authority #E-2002020886

SMOOTHIE KING

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POWER

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