

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MAT	MATERIAL
ACOUS	ACOUSTICAL	MAX	MAXIMUM
ADJ or ADJAC	ADJACENT	MTL	METAL
AL or ALUM	ALUMINUM	MDF	MEDIUM DENSITY FIBERBOARD
ALT	ALTERNATE	MFR	MANUFACTURER
AP	ACCESS PANEL	MIC	MICROWAVE
APPROX	APPROXIMATE	MIN	MINIMUM
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
		MTD	MOUNTED
		MUL	MULLION
B		N	NEW
BD	BOARD	(N)	NORTH
BET	BETWEEN	N	NORTH
BLDG	BUILDING	NIC	NOT IN CONTRACT
BOT	BOTTOM	NO	NUMBER
		NOM	NOMINAL
C		NTS	NOT TO SCALE
CJT	CONTROL JOINT	NAT	NATURAL
CT	CASED OPENING		
CT-C	CERAMIC TILE	O	OVERALL
CL	CLEAR	OA	ON CENTER
CLR	CENTER TO CENTER	OC	OUTSIDE DIAMETER
CAB	CABINET	OD	OWNER FURNISHED
CER	CERAMIC	OFCl	OWNER FURNISHED
CLG	CEILING		
CLK or CLKG	CAULK, CAULKING	OFCl	OWNER FURNISHED
CLO	CLOSET		
CNTR	COUNTER	OH	OVERHEAD
COL	COLUMN	OFF	OFFICE
CONC	CONCRETE	OP	OPPOSITE
CONF	CONFERENCE	OPNG	OPENING
CONST	CONSTRUCTION	OZ	OUNCE
CONTR	CONTRACTOR		
CORR	CORRIDOR	P	PARTICLE BOARD
CPT	CARPET	PART BD	PARTICLE BOARD
		PG	PAINT GRADE
D		PL	PROPERTY LINE
DF	DRINKING FOUNTAIN	P LAM	PLASTIC LAMINATE
DW	DISHWASHER	P	PAPER TOWEL DISPENSER
DBL	DOUBLE	PL	PLATE
DEPT	DEPARTMENT	PLAS	PLASTER
DET	DETAIL	PLYWD	PLYWOOD
DIA	DIAMETER	PNL	PANEL
DIM	DIMENSION	POL	POLISHED
DISP	DISPOSAL	PR	PAIR
DN	DOWN	PROP	PROPERTY
DR	DOOR	PT	POINT
DRW	DRAWER	PIN	PARTITION
DWG	DRAWING	R	RISER
		RA	RETURN AIR
E		RAD	RADIUS
(E)	EXISTING	RB	RESILIENT BASE
E	EAST	REC	RECESSED
EA	EACH	REF	REFERENCE
EL	ELEVATION	REQ	REQUIRED
ELEC	ELECTRICAL	REQT	REQUIREMENT
EMER	EMERGENCY	RES	RESILIENT
ENCL	ENCLOSED	REV	REVISE/REVISION
ENGR	ENGINEER	REFR	REFRIGERATOR
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RND	ROUND
EXPO	EXPOSED	RUB	RUBBER
EXT or EXTER	EXTERIOR	S	SOUTH
		S	SOLID CORE
F	FIRE ALARM	SCD	SEAT COVER DISPENSER
FA	FIRE EXTINGUISHER	SD	SOAP DISPENSER
FE	FIRE EXTINGUISHER	SEG	SEE ELECTRICAL DRAWINGS
FEC	FIRE EXTINGUISHER CABINET	SEF	SEE FIRE PROTECTION DWGS.
FDC	FACE OF CONCRETE	SH	SPRINKLER HEAD
FOF	FACE OF FINISH	SPD	SEE PLUMBING DRAWINGS
FOS	FACE OF STUD	SS	STAINLESS STEEL
FRT	FIRE RETARDANT TREATED	SSD	SEE STRUCTURAL DRAWINGS
FAB	FABRICATION	SW	SHEAR WALL
FIN	FINISH	SCHED	SCHEDULE
FIXT	FIXTURE	SHR	SHOWER
FLUOR	FLUORESCENT	SHT	SHEET
FP	FIRE PROOF	SIM	SIMILAR
FR	FRAME	SPEC	SPECIFICATION
FURR	FURRING	SQ	SQUARE
FUT	FUTURE	STA	STATION
		STD	STANDARD
G		STOR	STORAGE
GA	GAUGE	STRUC	STRUCTURAL
GB	GRAB BAR	SUSP	SUSPENDED
GC	GENERAL CONTRACTOR	SYM	SYMMETRICAL
GD	GARBAGE DISPOSAL	SYS	SYSTEM
GALV	GALVANIZED		
GEN	GENERAL	T	TREAD
GL	GLAZED	TB	TOWEL BAR
		THRESH	THRESHOLD
H		TYP	TYPICAL
HC	HOLLOW CORE	U	
HM	HOLLOW METAL	UBC	UNIFORM BUILDING CODE
HW	HOT WATER	UMC	UNIFORM MECHANICAL CODE
HD	HEAD	UPC	UNIFORM PLUMBING CODE
HDR	HEADER	UC	UNDER COUNTER
HDW	HARDWARE		
HOR or HORIZ	HORIZONTAL	UON	UNLESS OTHERWISE NOTED
HR	HOUR	V	VINYL COMPOSITION TILE
HT	HEIGHT	VCT	VINYL COMPOSITION TILE
		VIF	VERIFY IN FIELD
I		VAR	VARIABLE
ID	INSIDE DIAMETER	VEN	VENEER
IN	INCH	VENT	VENTILATION/VENTILATE
INCAN	INCANDESCENT	VERT	VERTICAL
INCL	INCLUDES, INCLUSIVE	VEST	VESTIBULE
INFO	INFORMATION	VOL	VOLUME
INST	INSTALL	VWC	VINYL WALL COVERING
INT or INTER	INTERIOR	W	WEST
		WC	WALL COVERING
J		WH	WATER HEATER
J-BOX or JB	JUNCTION BOX	WR	WATER RESISTANT
JAN	JANITOR	W/	WITH
JT	JOINT	W/O	WITHOUT
L		WC	WATER CLOSET
LF	LINEAR FOOT/FEET		
LAM	LAMINATE		
LAB	LABORATORY		
LAV	LAVATORY		
LB	POUND		
LT	LIGHT		
LT FIXT	LIGHT FIXTURE		

GENERAL NOTES

- The Contract Documents consist of the agreement between the Owner and the Contractor, Conditions of the Contract (General, Supplementary, and Other Conditions), Drawings, Specifications, Addenda, and Modifications issued prior to or after execution of the Contract and other documents listed in the agreement.
- The Contract Documents are instruments of service and shall remain the property of CAFE DNA, whether the project for which they are prepared is executed or not. The Contract Documents are not to be used by the Landlord, Tenant, Subtenant, or Property Owner, et. al., for other extensions to the project nor are they to be modified in any manner whatsoever, except by agreement in writing and with appropriate compensation to CAFE DNA.
- The Work shall conform with the requirements of the International Building Code (IBC), 2015 Edition, and all other requirements of the governing agencies having jurisdiction over the Work.
- "Landlord," "Base Building Owner," or "Shell Building Owner" shall mean the legal owner of the existing building occupied by the tenant.
- "Tenant," "Project Owner," or "Owner" shall mean TENANT, U.O.N.
- "Contractor" shall mean General Contractor or its subcontractors, as applicable.
- "Furnish" shall mean supply only; for others to install.
- "Install" shall mean supplied by others; to be installed by Contractor.
- "Provide" shall mean furnish and install, complete and in place.
- "Similar" shall mean comparable characteristics for conditions(s) noted. Contractor shall verify dimensions, orientation, and variation from the referenced condition.
- "Typical" shall mean identical for conditions noted.
- "Offsite" shall mean outside the property boundary of the Project parcel or site.
- "Site" shall mean the entire area within the parcel boundary/property line(s).
- "Site Work" shall mean all work up to a distance five (5) feet from the face of the building, unless otherwise noted or provided in the Contract.
- Do not scale Drawings; dimensions govern. Verify dimensions given with field conditions. If discrepancies are discovered between field conditions and Drawings or between individual Drawings, contact CAFE DESIGN for resolution before proceeding. Discrepancies between Drawings and Specifications shall likewise be brought CAFE DESIGN'S attention for resolution.
- Horizontal dimensions indicated are to/from finished face of construction, unless otherwise noted (UON).
- Vertical dimensions are from top of floor slab, except where noted to be from above finished floor (AFF).
- Dimensions are not adjustable without approval of the THE TENANT unless noted "±."
- All work shall be erected and installed plumb, level, square, and true and in proper alignment and adjustment.
- Properly cut and fit components for alteration of existing work and installations of new work. Patch disturbed areas to match adjacent materials and finishes.
- Patch and repair all fireproofing and fire safing damaged or removed during performance of the Work. Fireproof new penetrations required by the Work.
- Coordinate and provide appropriate structural backing and reinforcing in partitions behind all wall-mounted items. All concealed wood shall be fire retardant treated.
- Make all necessary provisions for items to be furnished or installed by Tenant. Provide protection for these provisions until completion of the Project. General Contractor shall coordinate Not-in-Contract (NIC) items with appropriate trades.
- General Contractor shall inspect existing as-built conditions at the Project site and shall review as-built documents and compare each in terms of the other to determine if discrepancies exist.
- General Contractor shall review the Base Building Contract Documents and shall comply with all Base Building requirements and design criteria, as applicable.
- General Contractor shall be responsible for checking Contract Documents, field conditions, and dimensions for accuracy and confirming that work is as shown before proceeding with construction. Clarifications regarding any conflicts shall be achieved prior to related work being started.
- General Contractor shall verify that no conflicts exist in locations of any and all mechanical, telephone, electrical, plumbing, and sprinkler equipment (to include all piping, ductwork, and conduit) and that all required clearances for installation and maintenance of above equipment are provided. Elements to be exposed to view shall be determined by or reviewed with THE TENANT prior to construction or fabrication proceeding.
- General Contractor and Subcontractors shall coordinate the layout and exact locations of all partitions and doors.
- General Contractor is responsible for and shall provide protection for all existing finishes and surfaces to remain.
- Mechanical, electrical, plumbing, and automatic fire sprinkler system design-build drawings and/or shop drawings, layouts, and composite coordination drawings shall be submitted to THE TENANT as soon as possible after award of the Contract for construction, allowing a minimum of five (5) working days for review. No fabrication or construction shall proceed until the review/approval of these drawings. General Contractor shall allow sufficient time for review, coordination, and resubmittal, if necessary, of the design-build Subcontractors' documents to ensure satisfactory design and engineering coordination.
- All glass and glazing used in this Project shall conform to the requirements of the 2015 IBC, IECC, and all federal regulations.
- Submit required shop drawings and submittals for all trades as soon as possible to THE TENANT before ordering any materials or fabrications or proceeding with the Work.
- Contractor shall follow manufacturers' recommended specifications and installation procedures. If these are contrary to the Contract Documents, Contractor shall notify THE TENANT in writing immediately to resolve discrepancies before proceeding.

- Contractor shall exercise extreme care and precaution during construction of the Work to minimize disturbances or disruption to adjacent structures, property, occupants, and public thoroughfares, etc. Contractor shall take all necessary and prudent precautions to protect building occupants from construction procedures and work and be responsible for the safety of all building occupants.
- Within five (5) days from the Contract Date, prepare and submit an estimated construction schedule for the Work, with subschedules of related activities which may affect the progress of the Work.
- All work shall comply with applicable codes, city amendments, rules, regulations, ordinances, laws, orders, approvals, etc., that are required by public authorities. In the event of conflict, the most stringent requirements shall apply. Requirements include but are not limited to the current applicable editions or publications of the following (or as otherwise noted):
INTERNATIONAL BUILDING CODE 2018 EDITION (IBC) AS AMENDED
INTERNATIONAL ENERGY CONSERVATION CODE 2018 EDITION (IECC) AS AMENDED
INTERNATIONAL EXISTING BUILDING CODE 2018 EDITION (IEBC) AS AMENDED
INTERNATIONAL FIRE CODE 2018 EDITION (IFC) AS AMENDED
INTERNATIONAL FUEL GAS CODE 2018 EDITION (IFGC) AS AMENDED
INTERNATIONAL MECHANICAL CODE 2018 EDITION (IMC) AS AMENDED
INTERNATIONAL PLUMBING CODE 2018 ADDITION (IPC) AS AMENDED
NATIONAL ELECTRICAL CODE 2017 ADDITION (NEC) AS AMENDED
ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ANSI)
ADA STANDARDS FOR ACCESSIBLE DESIGN DATED SEPTEMBER 15, 2010 BY US DOJ
TEMPE BUILDING & SAFETY ADMINISTRATIVE CODE SECTION 8 OF TEMPE CITY CODE
TEMPE ZONING AND DEVELOPMENT CODE (ZDC)
- Abbreviations used in referring to standards that apply to the Work include but are not necessarily limited to the following:
a. American Society for Testing and Materials (ASTM).
b. American Institute of Steel Construction (AISC).
c. American Welding Society (AWS).
d. American Concrete Institute (ACI).
e. American National Standards Institute (ANSI).
f. Architectural Aluminum Manufacturer's Association (AAMA).
g. Aluminum Association, Inc. (AA).
h. Concrete Reinforcing Steel Institute (CRSI).
i. National Association of Architectural Metal Manufacturers (NAAMM).
j. National Fire Protection Association (NFPA).
k. National Woodwork Manufacturer's Association (NWWA).
- In the event of conflict between data shown on Drawings and data shown on the Specifications, the Specifications shall govern. Dimensions noted on Drawings shall take precedence over scaled dimensions. Detail Drawings take precedence over Drawings of smaller scale. Should the Contractor at any time discover an error in a Drawing or Specification or a discrepancy or variation between dimensions on Drawings and measurements of site or lack of dimensions or other information, he shall report at once to THE TENANT for clarification and shall not proceed with the work affected until clarification has been made.
- Only new items of recent manufacture, of standard quality, free from defects, will be permitted on the Work. Rejected items shall be removed immediately from the Work and replaced with items of the quality specified. Failure to remove rejected materials and equipment shall not relieve the Contractor from the responsibility for quality and character of items used nor from any other obligation imposed on him by the Contract.
- The finished work shall be firm, well anchored, in true alignment, plumb, and level without waves, distortions, holes, marks, cracks, stains, or discoloration. Joints shall be close fitting, neat, and well scribed. The finish work shall not have exposed, unsightly anchors or fasteners and shall not present hazardous, unsafe corners. All work shall have the provision for expansion, contraction, and shrinkage as necessary to prevent cracks, buckling, and warping due to temperature and humidity conditions, and must comply with Ada County Health Inspections.
- Attachments, connections, or fastenings of any nature shall be properly and permanently secured in conformance with best practice, and the Contractor is responsible for improving them according to these conditions.
- The Contractor is responsible for verifying the dimensions and elevations at the site. The Contractor and Subcontractors shall coordinate the layout and exact locations of all partitions, doors, electrical/telephone outlets, light switches, and thermostats with the Architect in the field before proceeding with construction.
- The Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems. Contractor shall verify that no conflicts exist in locations of any and all mechanical, telephone, electrical, lighting, plumbing, and sprinkler equipment (to include all piping, ductwork, and conduit) and that all required clearances for installation and maintenance of above equipment are provided. No allowance of any kind will be made for the Contractor's negligence in not foreseeing means of installing equipment into position inside structure.
- No work defective in construction or quality or deficient in any requirements of Drawings and Specifications will be acceptable in consequence of Building Owner or Project Owner's or CAFE DNA'S failure to discover or to point out defects or deficiencies during construction, nor will presence of inspectors on work site relieve Contractor from responsibility for securing quality and progress of work as required by Contract. Defective work revealed within time required by guarantees shall be replaced by work conforming with intent of Contract. No payment, whether partial or final, shall be construed as an acceptance of defective work or improper materials.
- Materials and workmanship specified by reference to number, symbol, or title of such specification as commercial standards, Federal Specifications, trade association standards, or other similar standard shall comply with requirements in latest edition or revision thereof and with any amendment or supplement thereto in effect on date of origin of this Project's Contract Documents. Such standard, except as modified herein, shall have full force and effect as though printed in Contract Documents.
- Contractor shall waive common practice and "common usage" as construction criteria wherever details and Contract Documents or governing codes, ordinances, etc., require greater quantity or better quality than common practice or common usage would require.
- Contractor shall order and schedule delivery of materials in ample time to avoid delays in construction. If an item is found to be unavailable, Contractor shall notify THE TENANT immediately to allow CAFE DNA a reasonable amount of time to select a suitable substitute.
- If at any time before commencement of work or during progress thereof Contractor's methods, equipment, or appliances are inefficient or inappropriate for securing quality of work or rate of progress intended by contract Documents, Owner may order Contractor to improve their quality or increase their efficiency. Such order will not relieve Contractor of his surties from their obligations to secure quality of work and rate of progress specified in Contract.
- All signage by separate permit.
- Exterior perimeter walls of this space are existing and will not be changed, exterior doors, windows, and finish materials to remain un-changed, UON.
- All exterior mechanical, utility, plumbing, and communication equipment shall be screened, to the height of the tallest unit by parapet or screen wall that matches the architecture color, and architectural finish of the building.

PROJECT DIRECTORY

ARCHITECTURE & INTERIORS	PHONE	FAX
CAFE DESIGN # ARCHITECTURE, LLC	877.223.3707 X511	707.361.0953
AZBTR: 15027-0		
4475 WEST VENTURE LANE		
MARICOPA, AZ 85139		
ED T VISER, CID - PROJECT DIRECTOR	925.216.1782	
GRANT L. OLDS - PROJECT ARCHITECT		

MECHANICAL, PLUMBING & ELECTRICAL DESIGN

HAWKINS DESIGN
2152 S. VINEYARD AVE. SUITE 107
MESA, ARIZONA 85210
SCOTT ADLER, P.E. - ELECTRICAL 480.813.9000
GABRIEL MILLICAN, P.E. - MECH # PLUMBING 602.531.8843

TENANT GENERAL CONTRACTOR

LANDLORD
FENIX DEVELOPMENT
WATERMARK TEMPE LLC
10866 WILSHIRE BLVD
STE 400
LOS ANGELES, CA 90024 310-208-1840

PROJECT DATA

BUILDING INFORMATION

LAT/LONG: 33.433398, -111.927476
S/T/R: 15 IN 4E
JURISDICTION: TEMPE
ZONING: MU-4
PUG: 2815
LOT SIZE (SQ FT.): 71,641
MCR #: 1425-48
SUBDIVISION: WATERMARK AMD
LOT #: 3
FLOOR: 1
APN: 132-22-033

PROJECT ADDRESS: 410 N SCOTTSDALE RD. SUITE 107
TEMPE AZ, 85281

CONSTRUCTION TYPE: TYPE I PER IBC 602.3
SPRINKLERS: YES
OCCUPANCY GROUP: A-2
OCCUPANCY LOAD: 105
PROPOSED USE: RESTAURANT

TENANT DEVELOPMENT AREA:
RESTAURANT 2,675 SQ. FT.
PATIO 395 SQ. FT.

LIFE SAFETY SYSTEM # FIRE SPRINKLERS ARE DEFERRED SUBMITTAL

PARKING: NO CHANGE

OCCUPANT LOAD ANALYSIS	SQUARE FOOTAGE	SQ. FT. PP	TOTAL OCCUPANTS
CUSTOMER AREA	1,118	15	75
RESTROOM & HALLWAY	275	0	0
SERVICE AREA	381	200	2
STORAGE /WAREWASHING	506	200	3
PATIO	395	15	25
OCCUPANT LOAD:			105

PLUMBING FIXTURE COUNT:

PLUMBING CALC PER IPC 2018 # IBC CHAPTER 29 TABLE 2902.1

MEN	WATER CLOSETS	- REQ'D 1	PROVIDED = 1
53-1:75	URINALS	- REQ'D 0	PROVIDED = 0
	LAVATORIES	- REQ'D 1	PROVIDED = 1
WOMEN	WATER CLOSETS	- REQ'D 1	PROVIDED = 1
53-1:75	LAVATORIES	- REQ'D 1	PROVIDED = 1

SHEET INDEX

ARCHITECTURAL

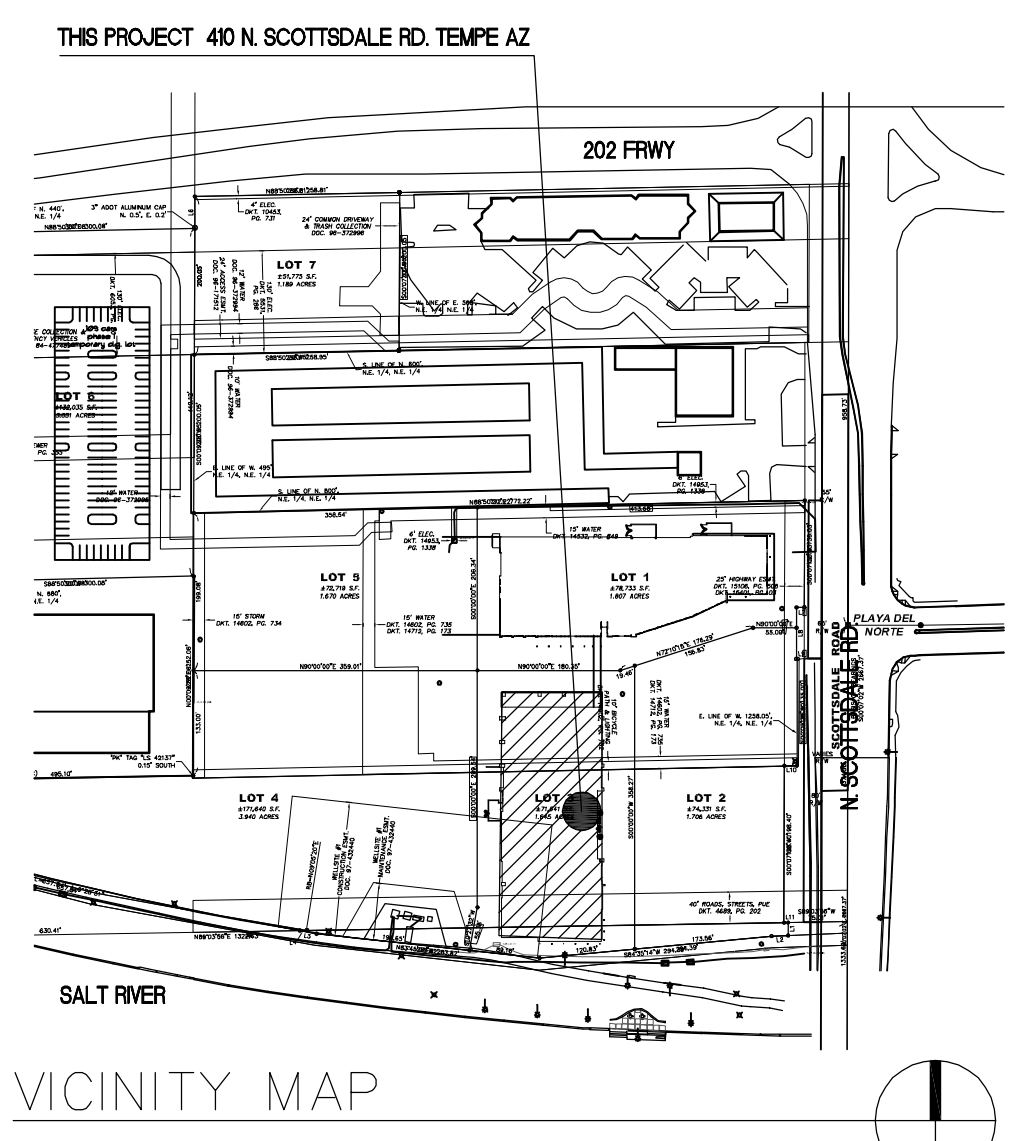
A0.0	COVER SHEET
A0.1	SITE # ACCESSIBLE PARKING DETAIL
A0.2	NEW ACCESSIBLE RESTROOM PLAN # DETAILS
A0.3	OCCUPANCY # EXITING PLAN
FS1.0	FOOD SERVICE EQUIPMENT PLAN
A1.0	PARTITION PLAN
A1.1	ROUGH PLUMBING # MILLWORK PLAN
A3.0	REFLECTED CEILING PLAN
A4.0	FLOOR # WALL FINISH PLAN
A9.0	WALL DETAILS
A9.1	CEILING DETAILS

MECHANICAL & PLUMBING

MPO.1	MECHANICAL AND PLUMBING GENERAL NOTES
M2.1	MECHANICAL FLOOR PLAN
M2.2	MECHANICAL PIPING PLAN
M3.1	MECHANICAL SCHEDULE
P2.1	PLUMBING WASTE AND VENT FLOOR PLAN
P3.1	PLUMBING FLOOR PLAN
P4.1	PLUMBING SCHEDULE
PS.1	PLUMBING DETAILS

ELECTRICAL

E0.1	ELECTRICAL SYMBOLS # SPECIFICATIONS
E1.0	ELECTRICAL POWER PLAN
E2.0	ELECTRICAL LIGHTING PLAN
E3.0	ELECTRICAL ONE LINE DIAGRAM



INTERIOR ARCHITECTURE & DESIGN

CAFE DESIGN
& architecture
commercial - retail - technical interiors
Maricopa, Arizona - San Francisco, California
p.925.216.1782 f.707.361.0953

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GROUND FLOOR

PRINCIPAL ARCHITECT



DATES

HEALTH & BLDG. SUBMITTAL	09.30.19
DESIGN ENGINEERING	08.15.19
FOR FRANCHISE REVIEW	07.10.19

DRNK
coffee + tea

QWENCH
juice bar

CLIENT

DRNK / QWENCH
Store #7235
410 N Scottsdale Rd.
SUITE 107
Tempe AZ, 85281

PROJECT #: 7235
TITLE

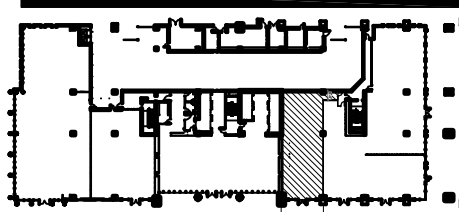
MASTER LEGEND
PROJECT DATA

SHEET NO.

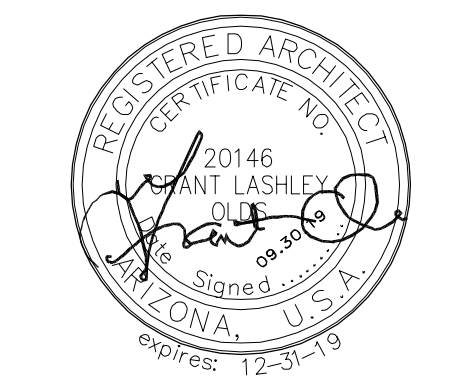
A0.0

ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34

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GROUND FLOOR
PRINCIPAL ARCHITECT



DATES

Table with 2 columns: Date and Description. Includes entries for Health & Bldg. Submittal (09.30.19), Design Engineering (08.15.19), and Franchise Review (07.10.19).



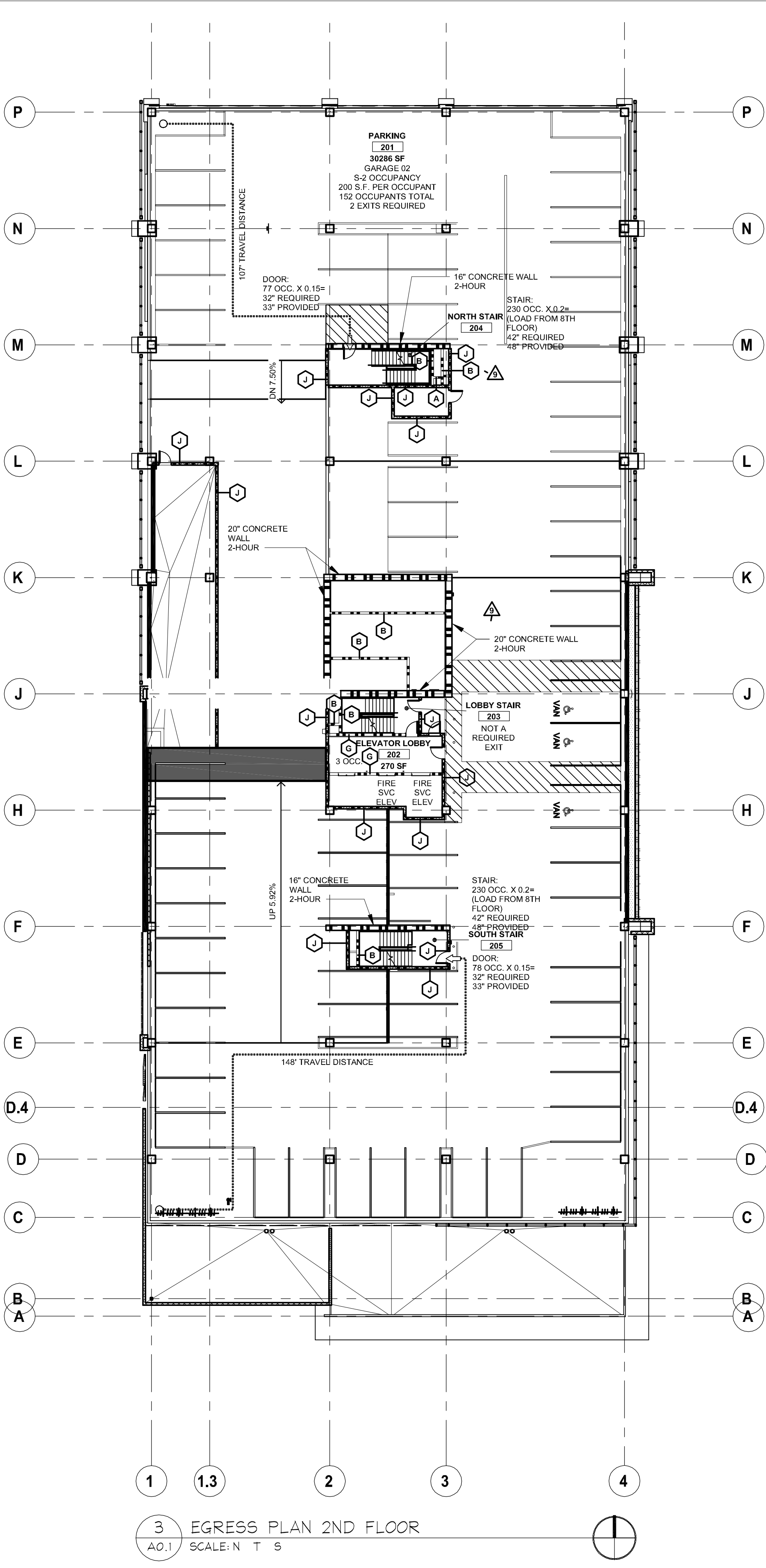
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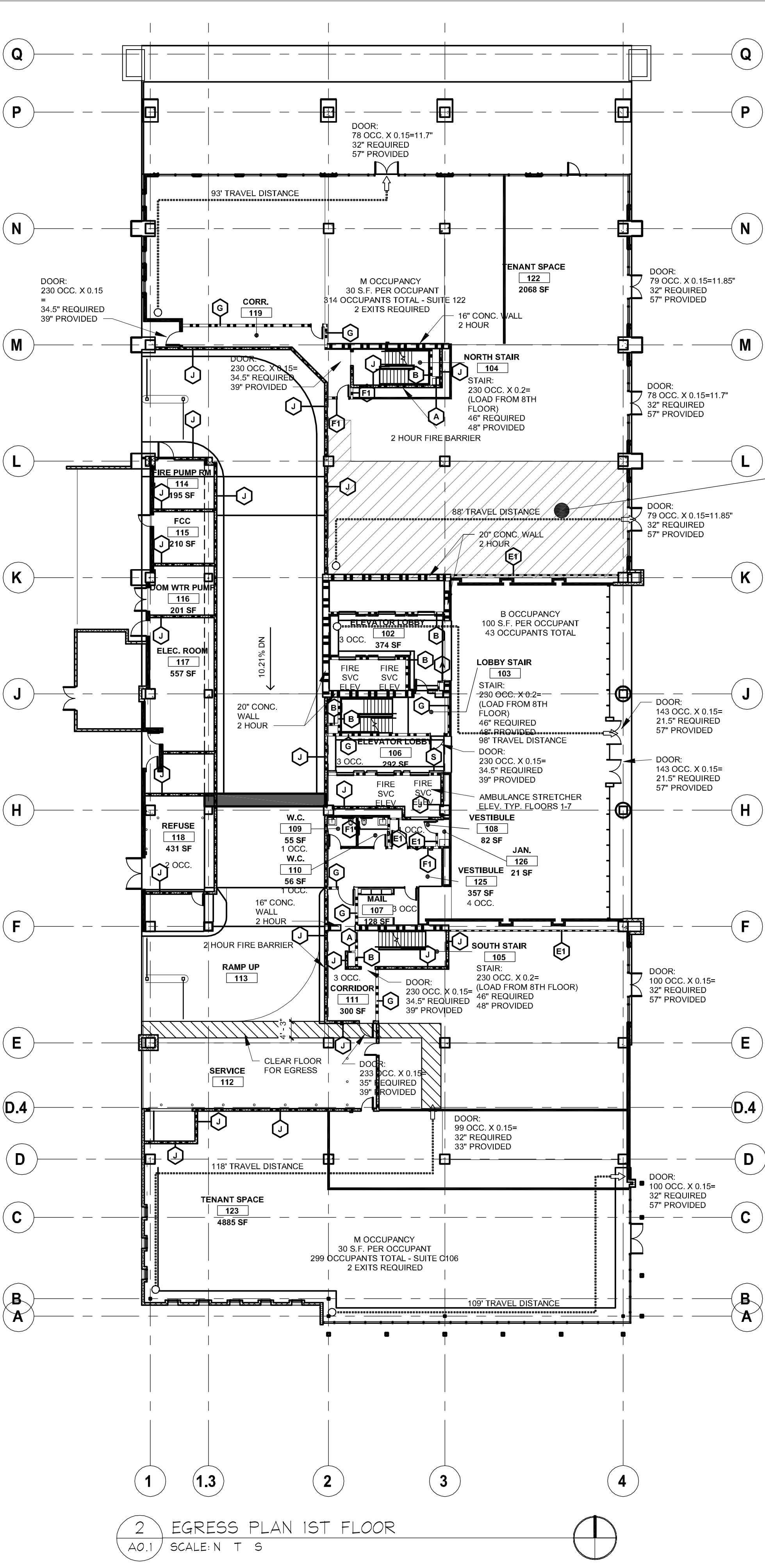
SITE &
EGRESS PLAN

SHEET NO.

A0.1

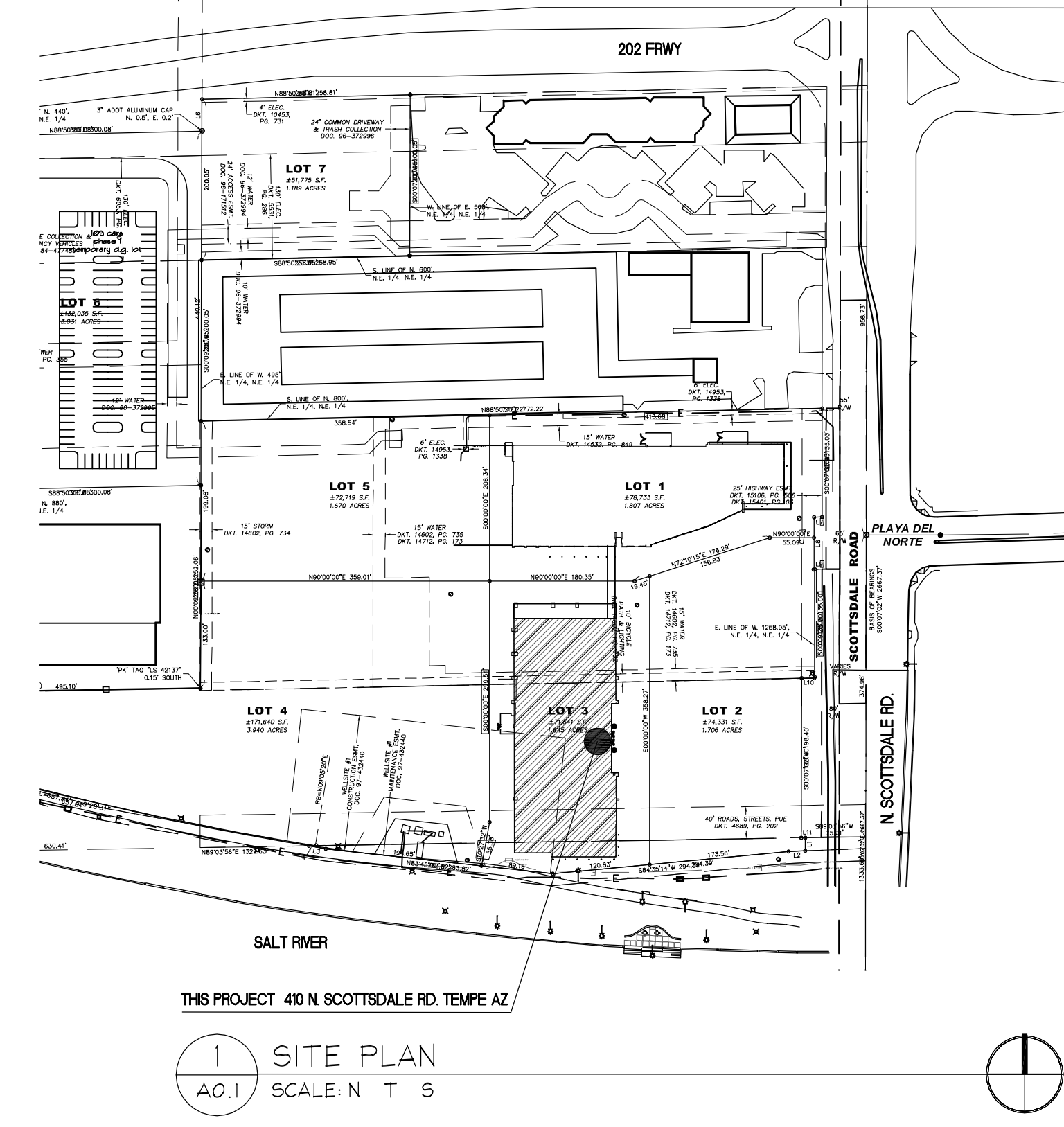


3 EGRESS PLAN 2ND FLOOR
A0.1 SCALE: N T S



2 EGRESS PLAN 1ST FLOOR
A0.1 SCALE: N T S

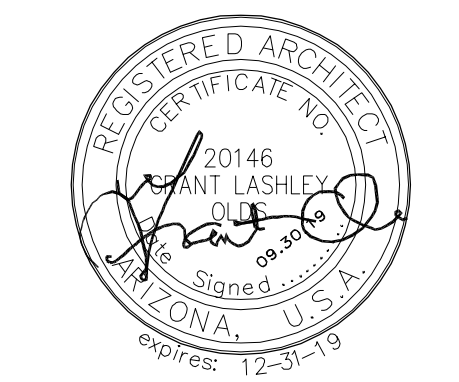
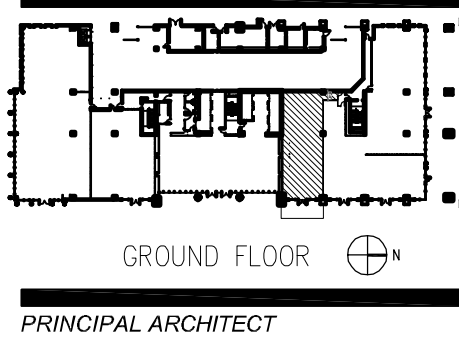
DRNK COFFEE+TEA + QWENCH JUICE BAR - SUITE C107



1 SITE PLAN
A0.1 SCALE: N T S

ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34

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DATES

HEALTH & BLDG. SUBMITTAL 09.30.19
 DESIGN ENGINEERING 08.15.19
 FOR FRANCHISE REVIEW 07.10.19

CLIENT



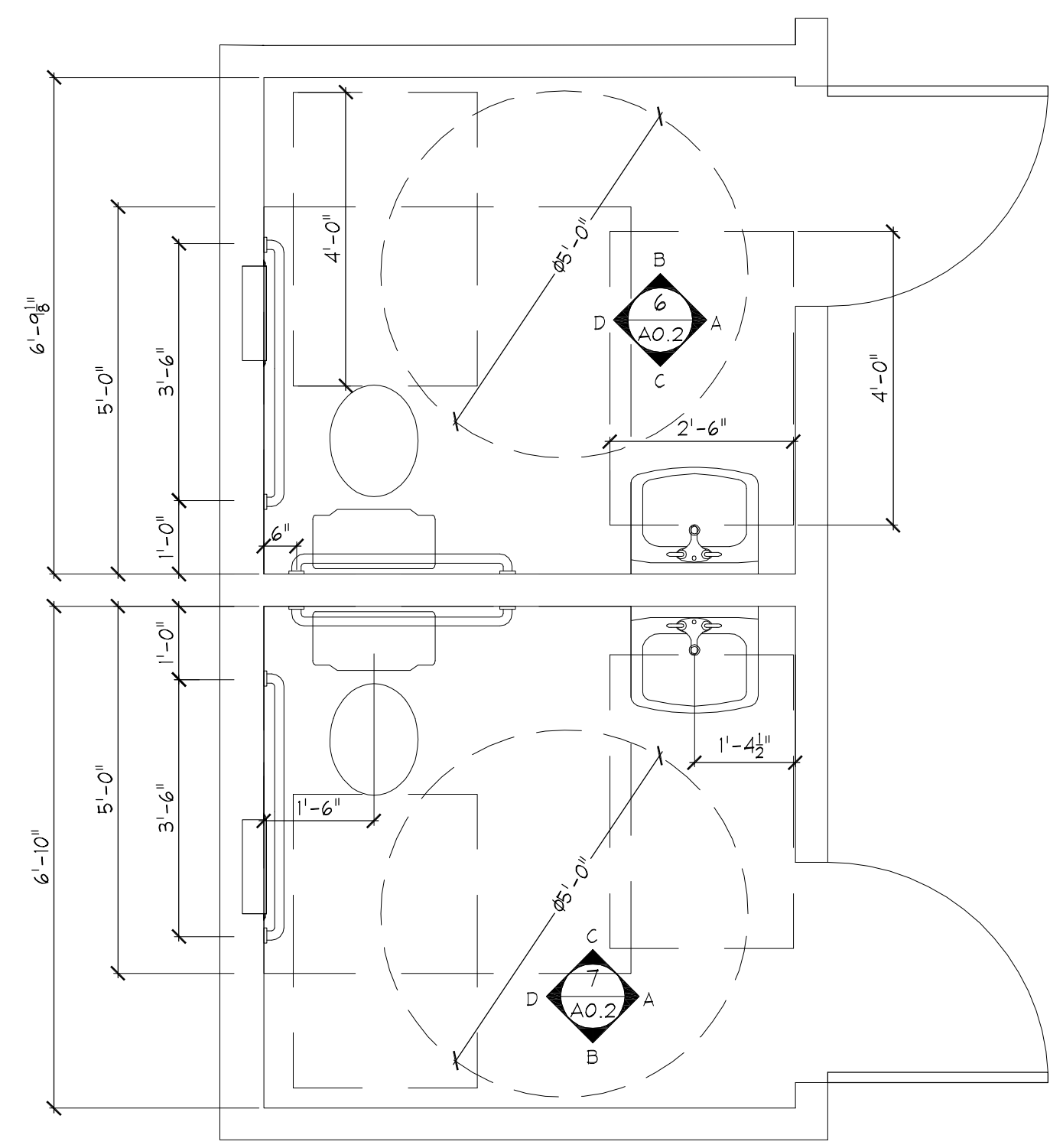
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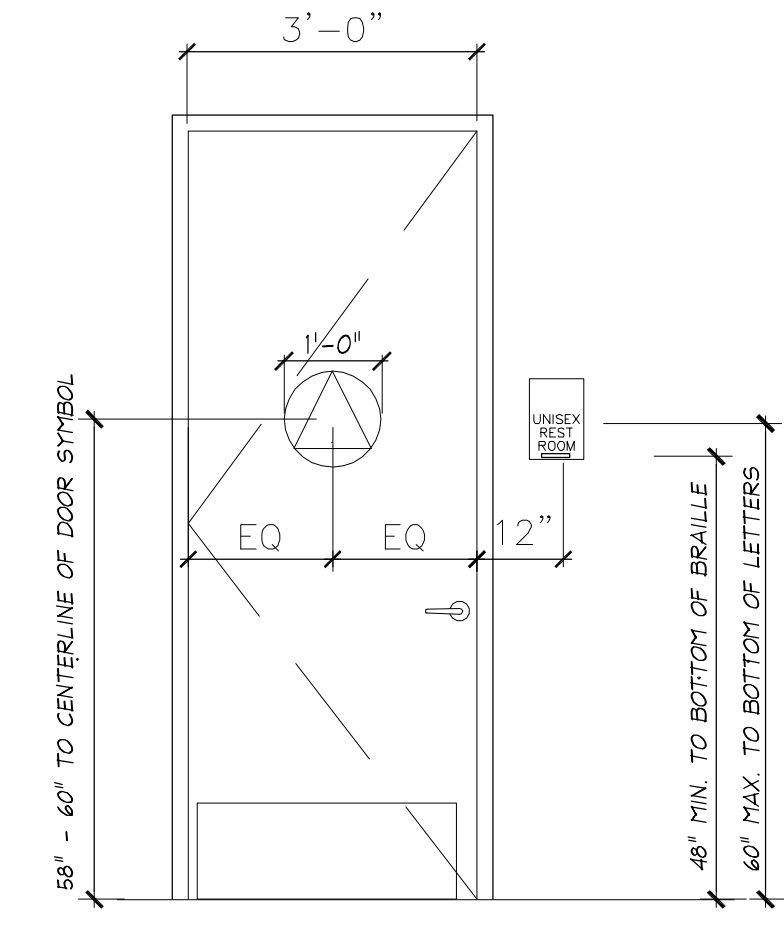
ACCESSIBLE
 RESTROOM
 PLAN & ELEVATIONS

SHEET NO.

A0.2



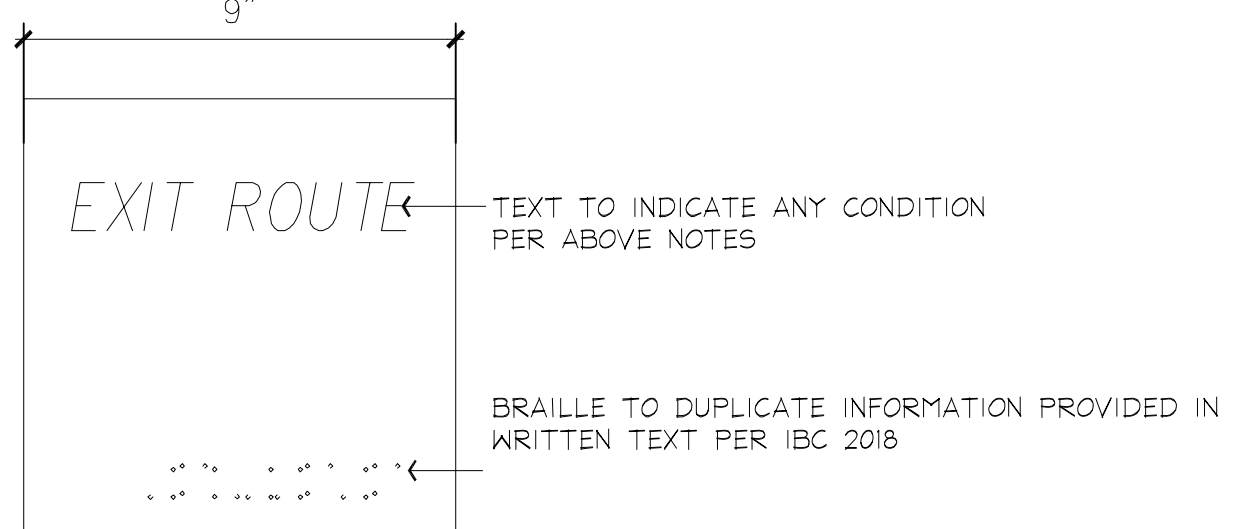
1 ENLARGED RESTROOM PLANS
 A0.2 SCALE: 1/2"=1'-0"



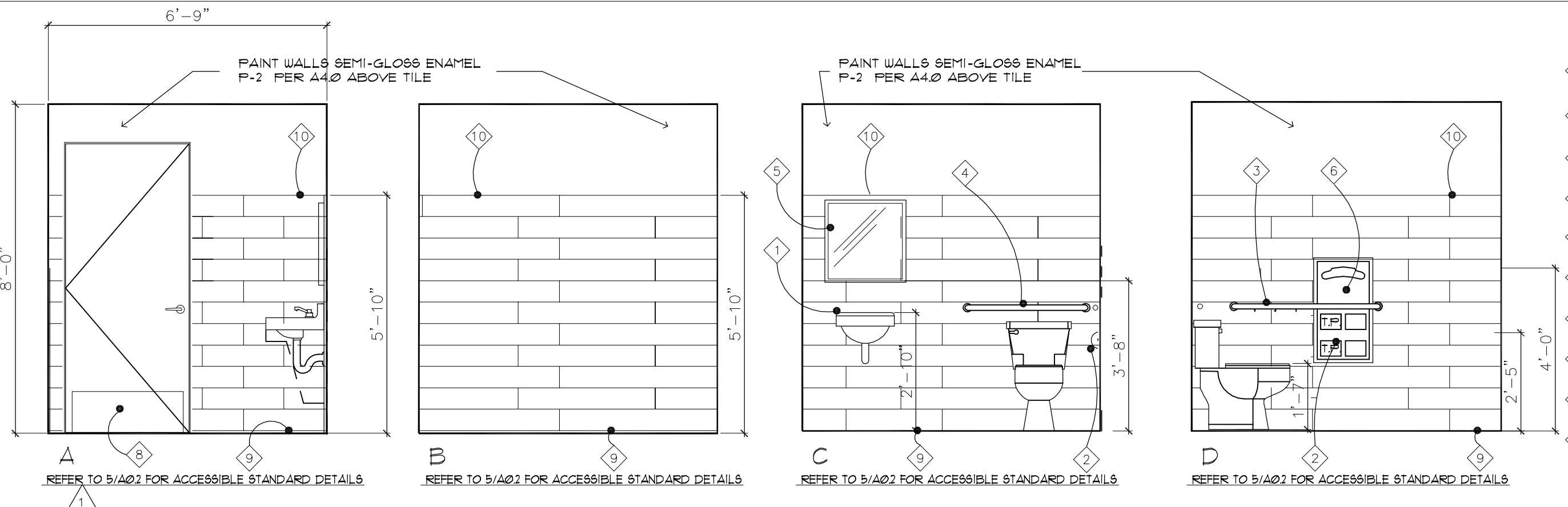
2 RESTROOM SIGNAGE
 A0.2 SCALE: 1/2"=1'-0"

SIGNAGE LOCATIONS PER IBC 2018

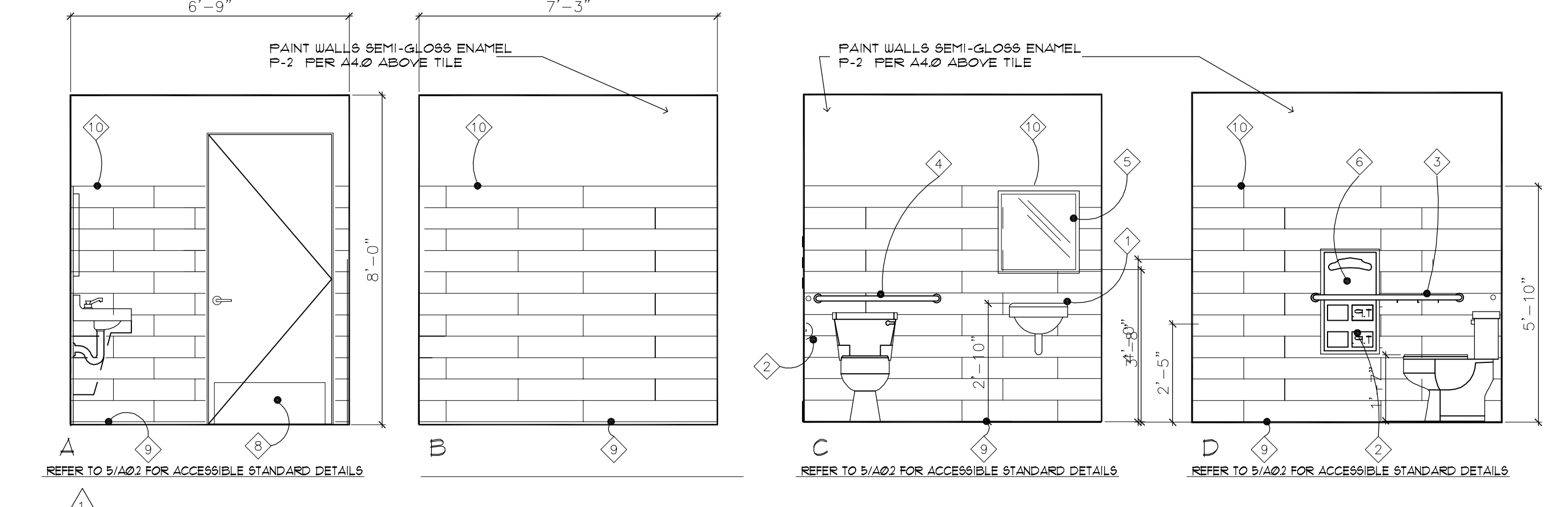
- EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT".
- EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
 A. "EXIT STAIR DOWN"
 B. "EXIT RAMP DOWN"
 C. "EXIT STAIR UP"
 D. "EXIT" RAMP UP"
- EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".
- EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".
- EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT".



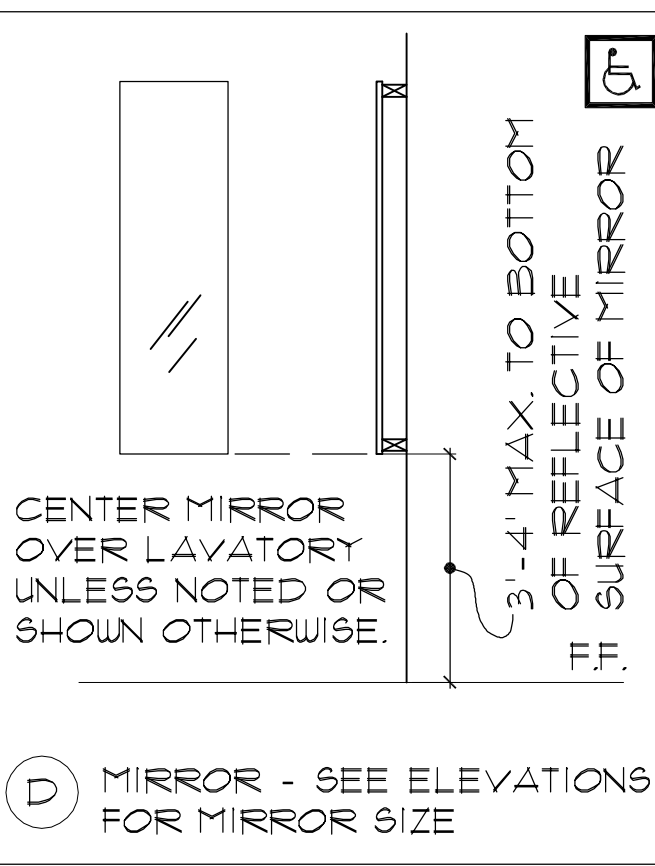
- SIGNAGE NOTES:
- SIGN INDICATED IS REPRESENTATIONAL ONLY.
 - REFER TO DETAILS UNDER SEPARATE COVER FOR MATERIALS, COLORS, STYLES, VERBIAGE AND METHOD OF ATTACHMENT.
 - SIGNS SHALL COMPLY WITH IBC FOR DESIGN AND LOCATIONS.
 - RAISED CHARACTERS SHALL COMPLY WITH IBC
 - PICTORIAL SYMBOLS SHALL COMPLY WITH IBC 6. BRAILLE SHALL COMPLY WITH IBC



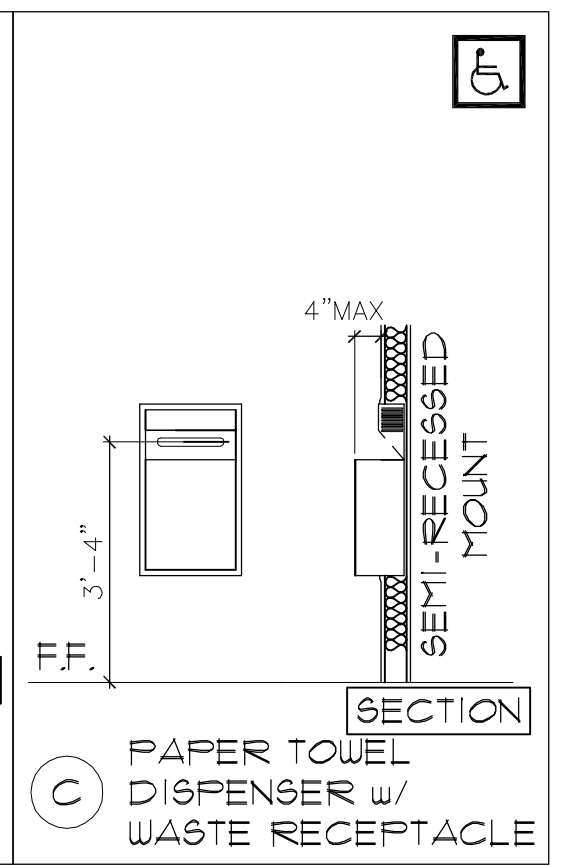
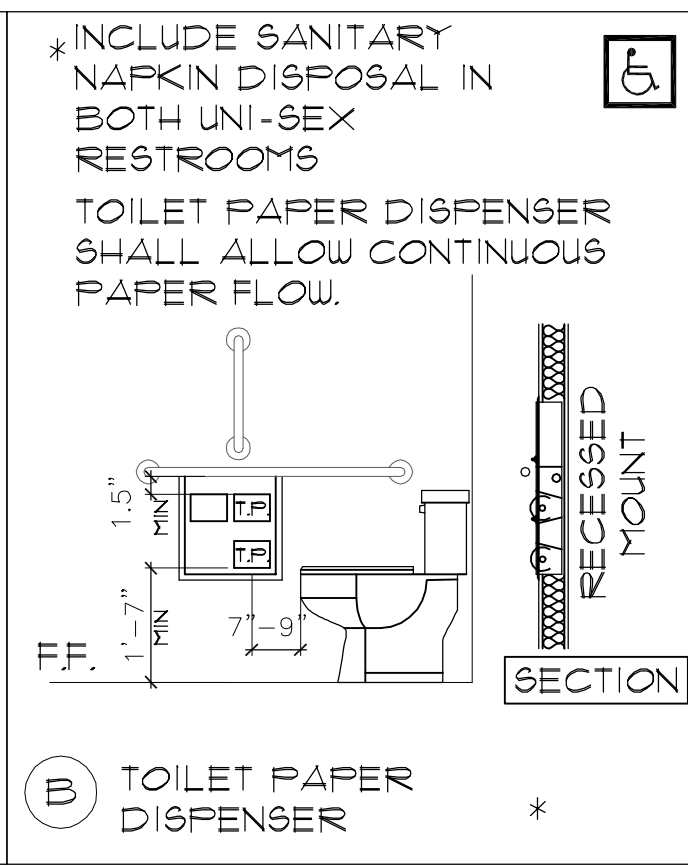
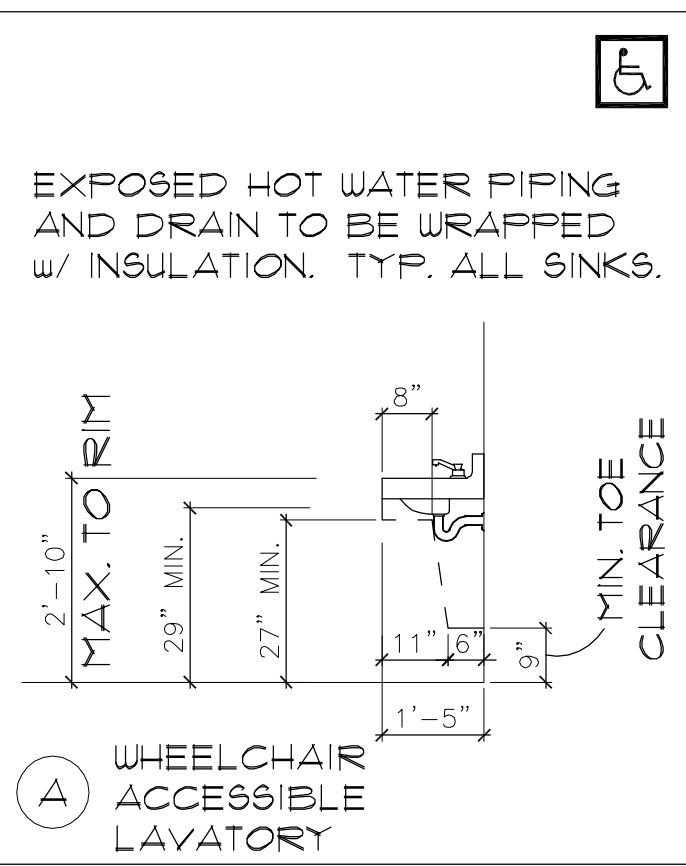
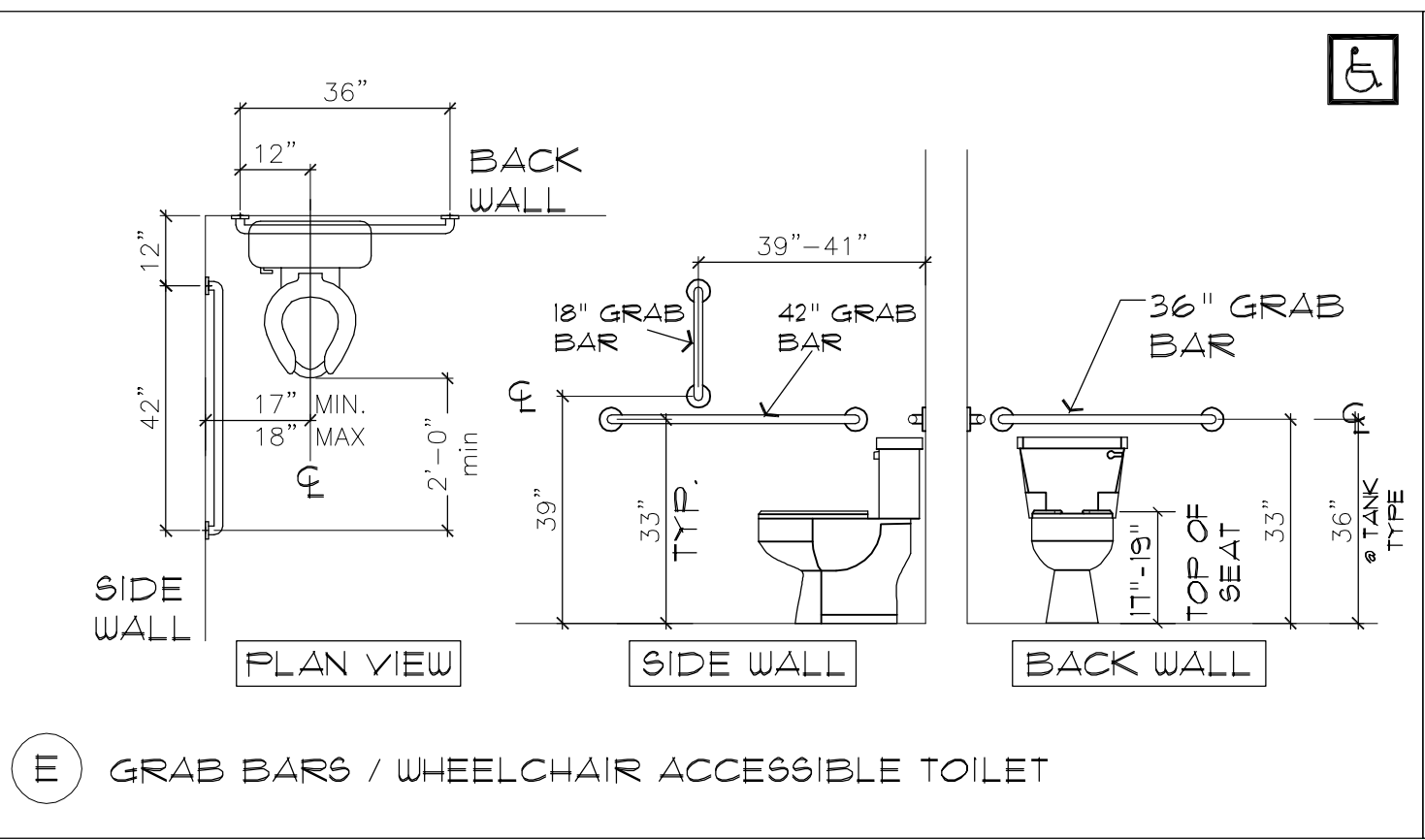
6 RESTROOM ELEVATIONS
 A0.2 SCALE: 1/2"=1'-0"



7 RESTROOM ELEVATIONS
 A0.2 SCALE: 1/2"=1'-0"



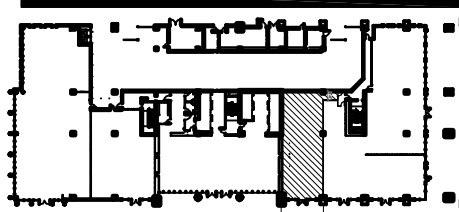
5 TYPICAL ACCESSIBLE STANDARD DETAILS
 A0.2 SCALE: 3/8"=1'-0"



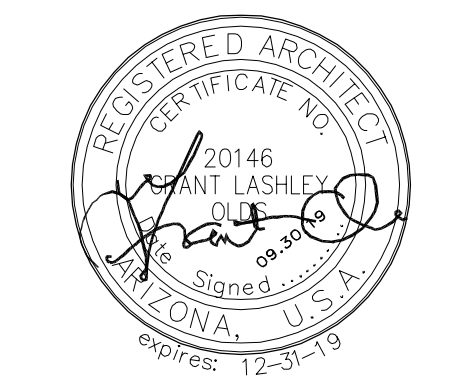
NOTE:
 ALL ACCESSIBILITY CODE SHALL BE PER ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ANSI) & ADA STANDARDS FOR ACCESSIBLE DESIGN DATED SEPTEMBER 15, 2010 BY US DOJ. (ADA)

ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34

DRAWINGS AND SPECIFICATIONS
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PERMISSION AND WITH APPROPRIATE
COMPENSATION TO CAFE DESIGN &
ARCHITECTURE.



GROUND FLOOR
PRINCIPAL ARCHITECT



DATES

HEALTH & BLDG. SUBMITTAL 09.30.19
DESIGN ENGINEERING 08.15.19
FOR FRANCHISE REVIEW 07.10.19



CLIENT
DRNK / QWENCH
Store #7235
410 N Scottsdale Rd.
SUITE 107
Tempe AZ, 85281

PROJECT #: 7235
TITLE

OCCUPANCY
& EXIT
PLAN

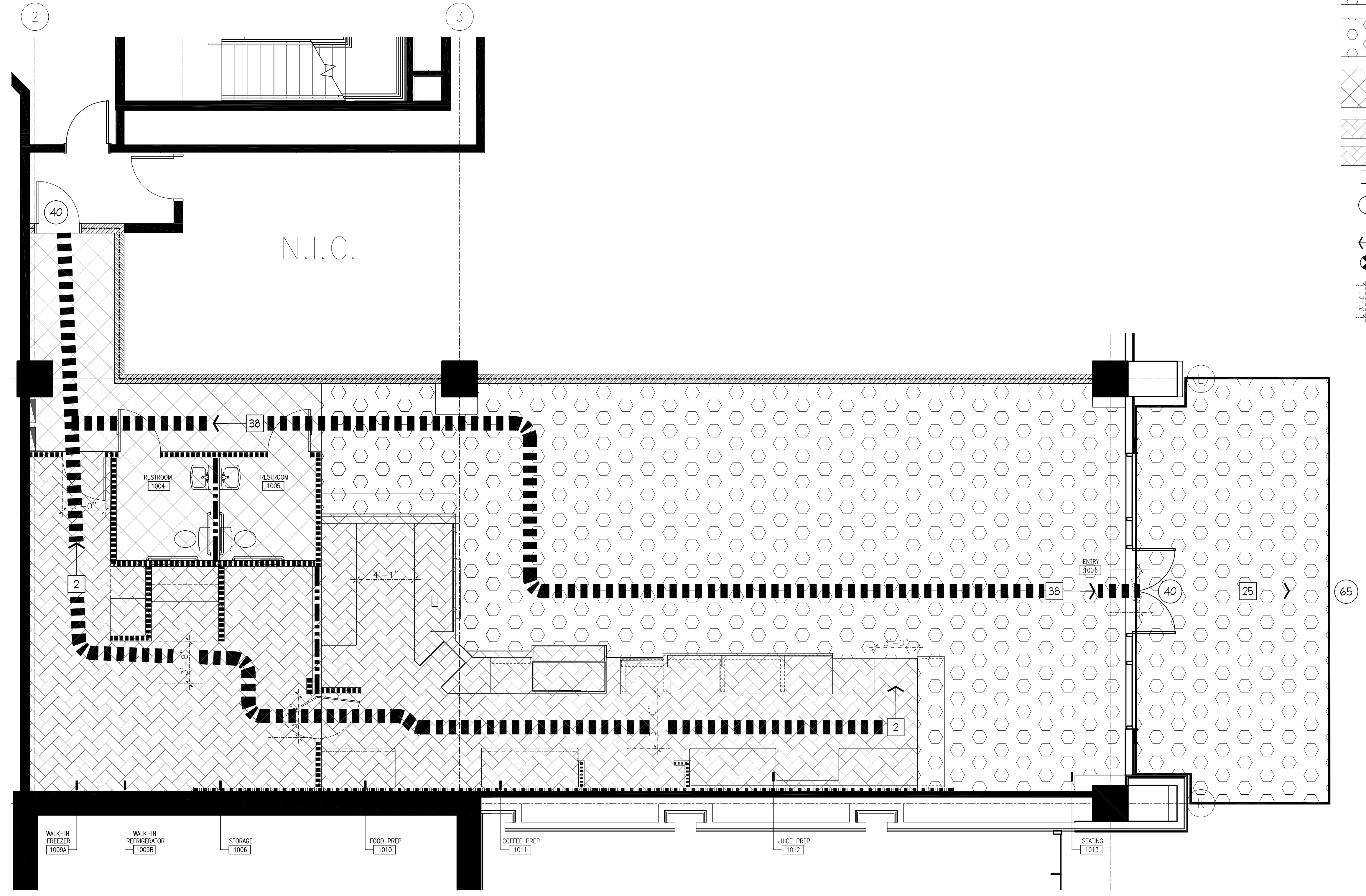
SHEET NO.

A0.3

OCCUPANCY DETAIL:

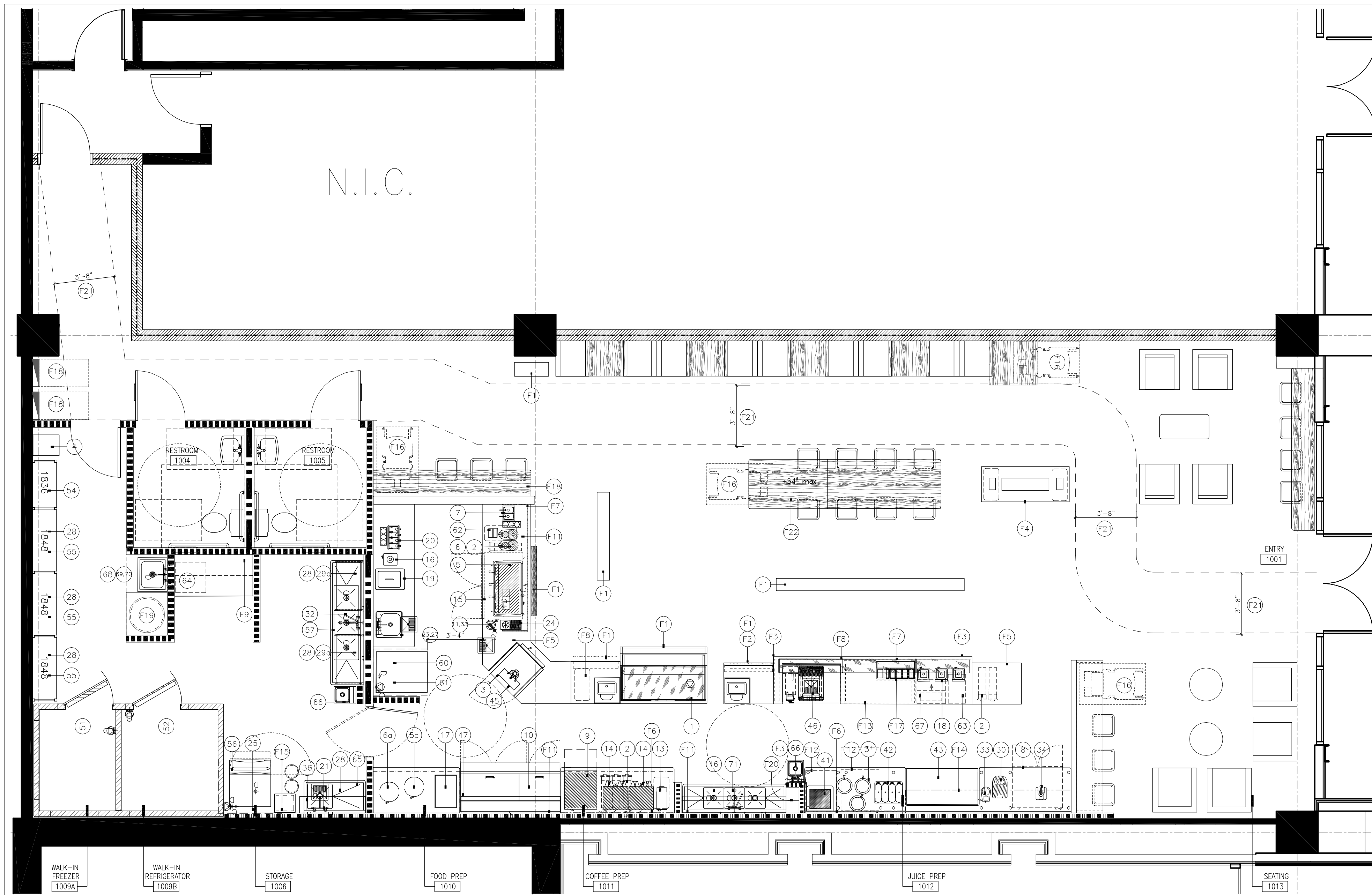
TOTAL CUSTOMER AREA SQ. FTG:	=	1,118
TOTAL HALL & RR SQ. FTG:	=	275
TOTAL OUTDOOR PATIO SQ. FTG:	=	395
TOTAL EMPLOYEE AREA SQ. FTG:	=	887
TOTAL OCCUPANTS	=	105

- CUSTOMER AREA
1,118 SQ FF @ 15 SQ FT PP = 75 OCCUPANTS
- PATIO
395 SQ FF @ 15 SQ FT PP = 25 OCCUPANTS
- RESTROOM & HALLWAY
275 SQ FT = 0 OCCUPANTS
- FRONT LINE SERVICE AREA
381 SQ FT @ 200 SQ FT PP = 2 OCCUPANTS
- BOH SERVICE AREA
506 SQ FT @ 200 SQ FT PP = 3 OCCUPANTS
- TOTAL OCCUPANTS IN EXIT PATHWAY
- TOTAL OCCUPANTS EXITING BUILDING
- DIRECTION OF TRAVEL
- REQUIRED EXIT PASSAGEWAY
- ACCESSIBLE ROUTE & PATH OF TRAVEL



2 OCCUPANCY & EXIT PLAN
A0.3 SCALE: 1/4"=1'-0"

ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34



HEALTH DEPARTMENT NOTES

- ALL NEW EQUIPMENT SHALL MEET NSF STANDARDS (NATIONAL SANITATION FOUNDATION).
- WALLS AS INSTALLED BY GENERAL CONTRACTOR SHALL BE NONABSORBENT EASILY WASHABLE SURFACE, LIGHT IN COLOR WITH A 70% LIGHT REFLECTIVE VALUE. SEE A4.0 FOR FINISH AND SPECIFICATIONS.
- CEILING AS INSTALLED BY GENERAL CONTRACTOR SHALL BE NONABSORBENT EASILY WASHABLE SURFACE, LIGHT IN COLOR WITH A 70% LIGHT REFLECTIVE VALUE. NON-PERFORATED VINYL ACOUSTICAL CEILING TILES WITH INTEGRAL WHITE POWDER COATED METAL CEILING GRID MAY BE USED AS APPROVED BY THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT OR GOVERNING AGENCY.
- FLOORS AS INSTALLED BY GENERAL CONTRACTOR SHALL BE NONABSORBENT EASILY WASHABLE WITH A 3/8" MIN RADIUS COVE BASE AT THE FLOOR/WALL JUNCTURE AND EXTEND 4" TO 6" UP WALL. FLOORS SHALL SLOPE TO A FLOOR DRAIN (1:50 MIN. SLOP) OR PER LOCAL GOVERNMENT AGENCY HAVING JURISDICTION OVER PROJECT. SEE ARCH. DRAWINGS FOR FINISH AND SPECIFICATIONS.
- POT SINKS SHALL BE FABRICATED OF QUALITY GRADE MINIMUM 14 GAUGE 300 SERIES TYPE STAINLESS STEEL WITH THREE COVE SINK BOWLS LARGE ENOUGH TO ACCOMMODATE LARGEST KITCHEN UTENSIL, WITH DUAL DRAINBOARDS AS LARGE AS THE LARGEST SINK COMPARTMENT.
- FOOD PREPARATION SINKS ARE REQUIRED SEPARATE FROM POTWASHING AND HAND SINKS. FOOD PREPARATION SINK MUST HAVE AN INDIRECT WASTE TO A FLOOR SINK.
- ALL ICE MACHINES SHALL BE LOCATED WITHIN THE BUILDING IN AN EASILY CLEANABLE WELL-VENTILATED AREA AND SHALL HAVE AN INDIRECT WASTE TO A FLOOR SINK BY MEANS OF AN INDIRECT WASTE WITH LEGAL AIR GAP.
- ALL FOOD RELATED EQUIPMENT - FOOD SINKS, ICE MACHINES, REFRIGERATED EQUIPMENT, ETC. SHALL DRAIN TO A FLOOR SINK.
- LIGHTING SHALL BE INSTALLED TO PROVIDE 50 FOOT CANDLES AT ALL FOOD PREPARATION AND WAREWASHING AREA. 50 FOOT CANDLES OF LIGHT SHALL BE PROVIDED IN ALL WALK-IN REFRIGERATION UNITS, DRY FOOD STORAGE AREAS, LAVATORY AND RESTROOMS AND ALL FOOD SALES AREAS. ALL LIGHTING INSIDE EQUIPMENT SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE EASILY CLEANABLE.
- PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL MIXING VALVES ON ALL KITCHEN BAR SINKS, HAND AND ALL LAVATORIES FOR 110 DEGREE MAX, HOT WATER SUPPLY. SEE ARCHITECTURAL AND ROUGH PLUMBING SHEETS.
- APPROVED VENTILATION THROUGHOUT ALL KITCHEN, DISHWASHING, FOOD STORAGE ROOMS, RESTROOMS AND CHANGING ROOMS SHALL BE REASONABLY FREE FROM EXCESSIVE HEAT, STEAM, CONDENSATION, SMOKE, VAPORS, ETC. AND REASONABLE CONDITION OF COMFORT FOR ALL EMPLOYEES WORKING WITHIN THE FACILITY.
- PROPER ICE HANDLING PRACTICES (BAR AND KITCHEN) WASH HANDS BEFORE GETTING ICE FROM ICE MAKING MACHINE.
- HOLD ONLY THE ICE SCOOP HANDLE AND NOT OTHER PARTS OF THE SCOOP.
- DO NOT SCOOP ICE USING WATER GLASSES OR CUPS AND NEVER HANDLE THE ICE WITH HANDS.
- DO NOT RETURN UNUSED ICE TO THE ICE MACHINE/ICE BIN.
- KEEP DOORS OF THE COMMERCIAL ICE MACHINE CLOSED EXCEPT WHEN REMOVING ICE.
- ICE SCOOPS SHOULD BE STORED OUTSIDE THE ICE MAKER AND KEPT IN A CLEAN CONTAINER.
- ICE SCOOP & CONTAINER SHOULD BE WASHED & SANITIZED REGULARLY.
- DO NOT STORE ANYTHING SUCH AS FOOD, DRINKS, FRUIT ETC. IN THE ICE MACHINE. NEVER USE THE ICE MACHINE AS A REFRIGERATOR! CLEAN THE ICE MAKING MACHINE REGULARLY AND FIX ALL PROBLEMS IDENTIFIED.
- BACKFLOW PREVENTER IS REQUIRED FOR ICE MACHINES AND IS PROVIDED BY PLUMBER.

RESPONSIBILITY MATRIX		SPECIALTY VENDOR	CAFEDNA ARCHITECT	G.C.	FIXTURE VENDOR	DRNK/QWENCH FRANCHISE
HEALTH PLAN CHECK			■			
CITY OF TEMPE PLAN CHECK			■			
BUILDING PERMITS				■		
DEMOLITION				■		
ROUGH PLUMBING				■		
ROUGH ELECTRICAL				■		
FRAMING & DRYWALL				■		
PROVIDE LIGHTING		■ COMMERCIAL LIGHTING			FRANCHISEE DIRECT	
INSTALL LIGHTING				■		
SUSPENDED CEILING				■		
RUN DATA LINES		■ NU002			FRANCHISEE DIRECT	
TAP SYSTEM		■ NU002			FRANCHISEE DIRECT	
FLOOR & WALL TILE		■ ARIZONA TILE			FRANCHISEE DIRECT	
FLOOR FINISH				■	FRANCHISEE DIRECT	
WALL FINISH				■	FRANCHISEE DIRECT	
RESTROOM FIXTURES				■		
CASEWORK INSTALL				■		
EQUIPMENT PROVIDE & INSTALL				■	FRANCHISEE DIRECT	
EQUIPMENT SET UP				■	CORPORATE	
FOOD STOCKING				■	CORPORATE	
FURNITURE INSTALLATION		■			FRANCHISEE DIRECT	
CONTACTS						
CAFE DESIGN & ARCHITECTURE	ED T. VISER	925.216.1782				
DRNK / QWENCH CORPORATE	HILARIO TORRES	323.825.5373				
CLI (LIGHTING)	SHANNON HOLCOMB	210.393.8732				
ARIZONA TILE	ED STOKES	408.734.3015				
NU C02	MATT ALBA	818.522.1955				

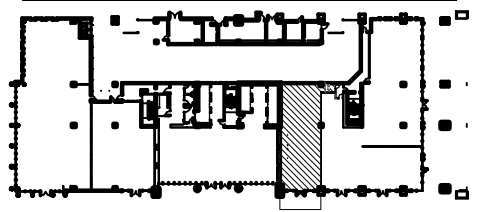
EQUIPMENT SCHEDULE					INSTALLED BY GENERAL CONTR. PROVIDED BY FRANCHISEE	PROVIDED BY MILLWORK	NOTES
1	1	Refrigerated Self-Service Case	Structural Concepts	C053R-UC	■	■	POWER @ 18" UC
2	8	Dispenser, Cup	San Jamar	C2410C18	■	■	RECESS 6"
3	1	Dispensing Head, (1 scout faucet)	Micro Matic USA	6403-C			
4	1	Employee Lockers (mount +6" AFF)	Salsbury	Tech 64152	■		WALL @ +6" A.F.F.
5	1	Espresso Machines, Sem Automatic	Nuovo Simonelli	Aurelio II 3-GROUP	■		H2O FROM #25 POWER @ 18" A.F.F.
6	1	Coffee Grinder	Nuovo Simonelli	Mythos 1 GSD	■		POWER @ 18" A.F.F.
6a	3	Rice Cooker	Zojirushi	THA-8035	■		POWER @ 18" A.F.F.
7	1	Rail, Syrup	Server Products	82910			
8	1	Refrigerator, Undercounter, Compact	Hoshizaki	CRMR36	■		POWER @ 18" A.F.F.
9	1	Oven, Microwave	Practika	Chef Express	■		POWER @ 48" A.F.F.
10	1	Refrigerator, Sandwich/Salad Prep	Hoshizaki	CRMR72-30M	■		POWER @ 18" A.F.F.
11	1	Filler, Glass	Fisher	54186	■		COLD H2O / AIR GAP DRAIN TO FS
12	1	Refrigerator, Undercounter, Compact	True Food Service	TUC-27D-2-LP	■		POWER @ 18" A.F.F.
13	1	Coffee Grinder	Bunn	22100.001	■		POWER @ 48" A.F.F. H2O FROM #25 POWER @ 18" A.F.F.
14	2	Coffee Maker, IntelliFresh Brewer	Curtis Co., Wilbur	G4GEMIF10A1326	■		POWER @ 18" A.F.F.
15	1	Refrigerator, Undercounter, Compact	Hoshizaki	CRMR48	■		POWER @ 18" A.F.F.
16	1	Blender, Beverage/Food	Blend Tec - ON COUNTER	STEALTH	■		COORDINATE INSTALL POWER @ 48" A.F.F.
17	1	Warmer, Food, Electric	Winco	FW-5500	■		POWER @ 48" A.F.F.
18	3	Blender, Beverage/Food	Blend Tec - IN COUNTER	STEALTH	■		COORDINATE INSTALL POWER @ 24" A.F.F.
19	1	Drop-In, Ice Station	Delfield	305	■		GAP DRAIN TO FS
20	1	Topping Station	Server Products	87480	■		
21	1	FAUCET	Fisher	13242	■		HOT & COLD H2O
23	1	Sink, Drop-In	Advance Tabco	DI-1-168	■		HOT & COLD H2O
24	1	Sink, Misc.	ESPRESSO PARTS	PITCHER RINSER	■		COLD H2O / AIRGAP
25	1	Water Filtration	Antunes	VZN-441H-T5 1" NPT	■		WATER & POWER @ 84"
26							
27	1	FAUCET	Fisher	53880	■		HOT & COLD H2O
28	8	Shelf, Wall Mount @ 72" & 84"	Eagle Group/Metal Masters	GW1848VG	■		GC INSTALL PROVIDE BACKING
29a	2	Shelf, Wall Mount @ 54"	Eagle Group/Metal Masters	GW1436VG	■		GC INSTALL PROVIDE BACKING
30	1	Juice Extractor	CEADO	ES 700	■		POWER @ 48" A.F.F.
31	3	Nut Milk Extractor (+4" shelf)	Brewista	NutraMilk	■		POWER @ 48" A.F.F.
32	1	PRE-RINSE FAUCET	Fisher	74063	■		HOT & COLD H2O
33	2	Heated Dipperwell Assembly	Server Products	87770	■		POWER @ 18" A.F.F.
34	1	Citrus Squeezer	Nemco Food Equipment	55850	■		
35							
36	1	Shelf, Wall Mount @ 54" A.F.F. VIF	Advance Tabco	WS-10-48	■		GC INSTALL PROVIDE BACKING
41	1	Juice Dispenser	Zummo Inc.	714-C	■		POWER @ 48" A.F.F.
42	1	Juice Dispenser w/Elev SS SHLF	Crathco	E 49	■		POWER @ 48" A.F.F.
43	1	Ice Cream Cabinet & Freezer	Master Blitt	MSF-52-AN	■		POWER @ 18" A.F.F.
45	1	Keg Dispenser/Refrigerator	Micro Matic USA	MDD 23S	■		POWER @ 18" A.F.F. H2O FROM #25 AIR GAP DRAIN TO FS
46	1	VEGGIE SINK 1 FAUCET COLD	POWER WASH	50PSPW36L3B1	■		POWER @ 12" A.F.F. COLD H2O / AIRGAP
47							
48	8	Corner, Guard	Advance Tabco	CG-48	■		COORDINATE INSTALL
51	1	Walk-In w/ shelving (see plan)	Kolpak 70" (id) X 74 (id)	Refrigerator-Self-Cont	■		COORDINATE INSTALL
52	2	Walk-In w/ shelving (see plan)	Kolpak 60" (id) X 74 (id)	Freezer - Self-Cont.	■		COORDINATE INSTALL
54	2	Shelving Unit, Plastic, Louvered	Cambro - or equal	CBU183672-580	■		COORDINATE INSTALL
55	4	Shelving Unit, Plastic, Louvered	Cambro - or equal	CBU184872-580	■		COORDINATE INSTALL
56	1	Ice Maker- WATER FROM FILTER #25	Manitowoc Ice	IY-0504A /B-570	■		H2O FROM #25 POWER @ 48" A.F.F.
57	1	Sink, Square Corner, Three Comp	Eagle Group/Metal Masters	2148-3-18-16/3	■		COORDINATE INSTALL
60	1	Oven-Steamer, Combination, Electric	UNOX, Inc.	XAVC-0511-EPR	■		COLD H2O / AIR GAP POWER @ 24" A.F.F. COLD H2O / AIR GAP POWER @ 18" A.F.F.
61	1	VENTLESS HOOD	UNOX, Inc.	XAVHC-HC11	■		IN COUNTER
62	1	KNOCK BOX CHUTE	ESPRESSO PARTS	6" SQ. BOTTOMLESS	■		
63	2	Full Size Translucent Food Pan	Cambro	14PP190 - 4"Deep	■		
64	1	SAFE	W/ESL20XL LOCK	AMSECWB2020FL	■		
65	1	Sink, NSF, 1 comp, (air gap to FS)	Advance Tabco	FC-1-1818-24L-X	■		HOT & COLD H2O AIR GAP DRAIN TO FS
66	2	Hand Sink w/ Soap & Paper Towels	Advance Tabco	7-PS-84	■		HOT & COLD H2O COORDINATE INSTALL, AIR GAP DRAIN TO FS
67	1	UC Ice Bin SECURE TO SHELF	Delfield	240	■		COORDINATE INSTALL, AIR GAP DRAIN TO FS
68	1	Mop Sink	Advance Tabco	X	■		
69	1	Mop Holder	Advance Tabco	K-242-X	■		
70	1	UTILITY FAUCET	Fisher	97659	■		HOT & COLD H2O

MISCELLANEOUS FIXTURE NOTES		
F1	3	RETAIL DISPLAY - INTEGRATED IN MILLWORK
F2	3	ACCESSIBLE COUNTER AT +34" A.F.F.
F3	3	HI MACS GRAY WATERFALL TOP TO FLOOR
F4	1	CONDIMENT COUNTER AT +34" A.F.F.; MATCH DRNK COUNTER DESIGN WOOD & QUARTZ
F5	2	DRINK PICK UP AREA
F6	6	MENU BOARD WITH DATA & POWER; TYPICAL OF 6 (3) EACH SIDE
F7	1	GLASS SNEEZE GUARD TO +5'-0" A.F.F.
F8	2	METAL B DECK FACE W/ HI MACS GRAY
F9	1	TERMINATE ALL DATA HERE; POWER @ +78" A.F.F. - ADD (2) QUAD POWER IN UPPER CAB
F10	1	LINENS, TRASH RECYCLE
F11	3	DATA & POWER FOR PRINTER ON SHELF @ 54" A.F.F. OR UNDER COUNTER
F12	1	CLEAN / DIRTY BLENDER STORAGE BELOW COUNTER
F13	1	ACAI BOWL PREP SPACE
F14	1	CUSTOM STAINLESS STEEL VEGGIE BIN DISPLAY 10'-0" WIDE
F15	1	NITRO REGENERATOR & CO2 STORAGE LESS THAN 10 LBS GAS; RUN 1" CONDUIT FROM ITEM #45
F16	2	ACCESSIBLE SEATING
F17	1	CUSTOM STAINLESS STEEL SUPER FOOD DISPLAY
F18	2	NEW ELECTRICAL PANELS
F19	1	NEW WATER HEATER
F20	1	LOCATE MISTING SYSTEM UNDER SINK
F21	1	PATH OF TRAVEL
F22	1	CUSTOM WOOD TABLE DUAL HEIGHT; +34" & +42"
POS	2	POINT OF SALE SYSTEM - SANGO BY AURES.WW.AURES.COM; PROVIDE POWER & 4 CAT 6 CABLE

1 EQUIPMENT & FIXTURE PLAN
SCALE: 1/4"=1'-0"

INTERIOR ARCHITECTURE & DESIGN
CAFE DESIGN & architecture
commercial - retail - technical interiors
Maricopa, Arizona - San Francisco, California
p: 925.216.1782 f: 707.361.0953

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GROUND FLOOR
PRINCIPAL ARCHITECT



DATES

HEALTH & BLDG. SUBMITTAL 09.30.19
DESIGN ENGINEERING 08.15.19
FOR FRANCHISE REVIEW 07.10.19



CLIENT
DRNK / QWENCH
Store #7235
410 N Scottsdale Rd.
SUITE 107
Tempe AZ, 85281

PROJECT #: 7235
TITLE

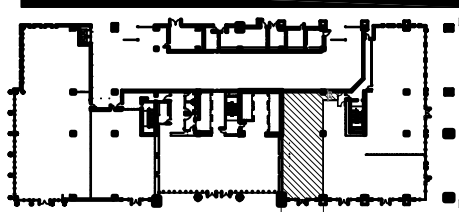
FOOD SERVICE
EQUIPMENT &
FIXTURE PLAN

SHEET NO.

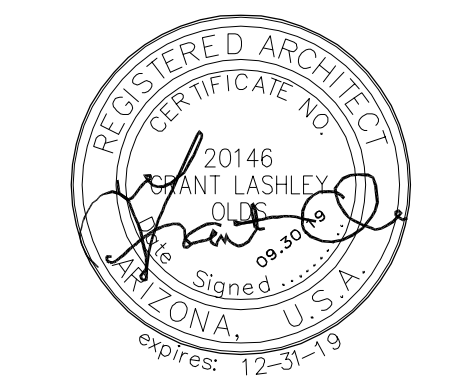
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ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34

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GROUND FLOOR
 PRINCIPAL ARCHITECT



DATES

HEALTH & BLDG. SUBMITTAL	09.30.19
DESIGN ENGINEERING	08.15.19
FOR FRANCHISE REVIEW	07.10.19

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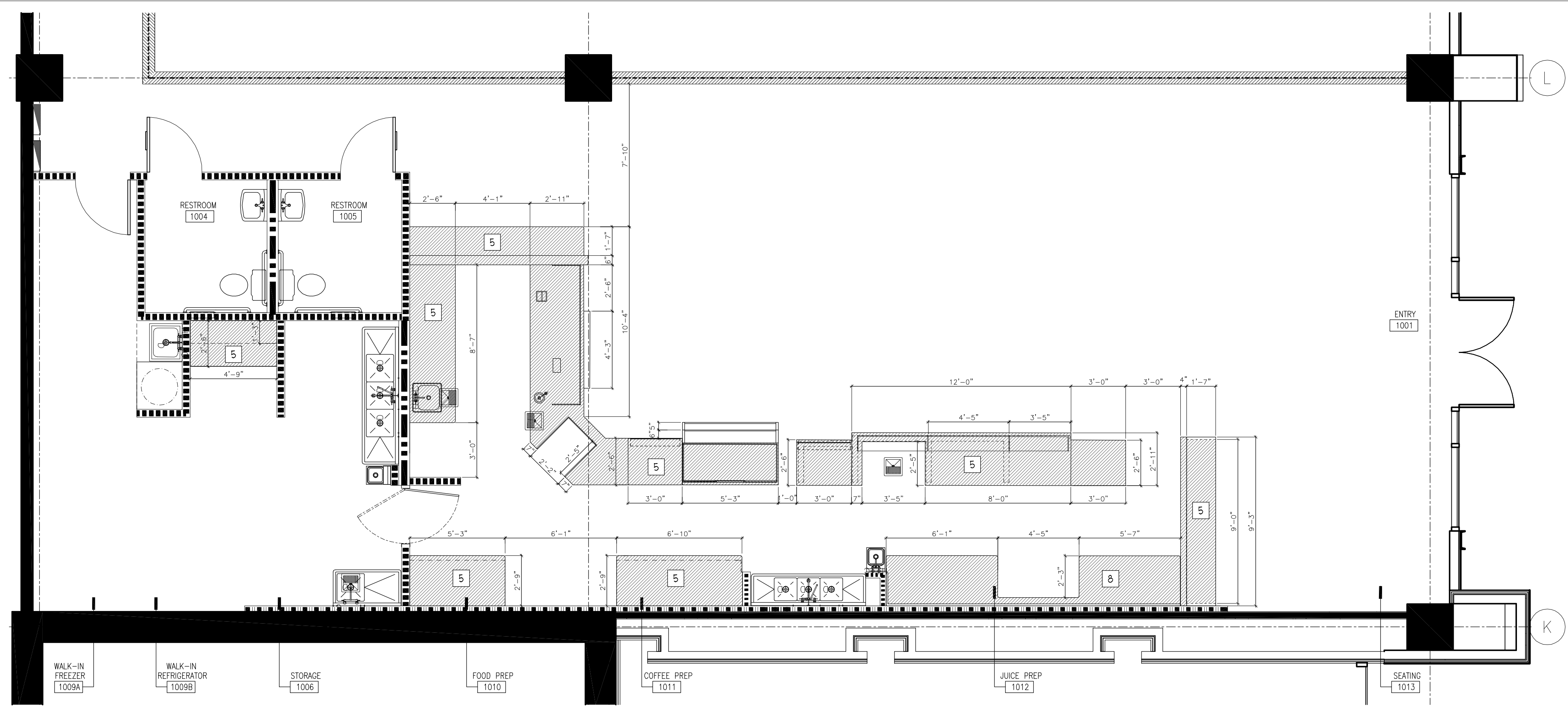
PROJECT #: 7235
 TITLE

ROUGH-IN
 PLUMBING & POWER
 PLAN

SHEET NO.

A1.1

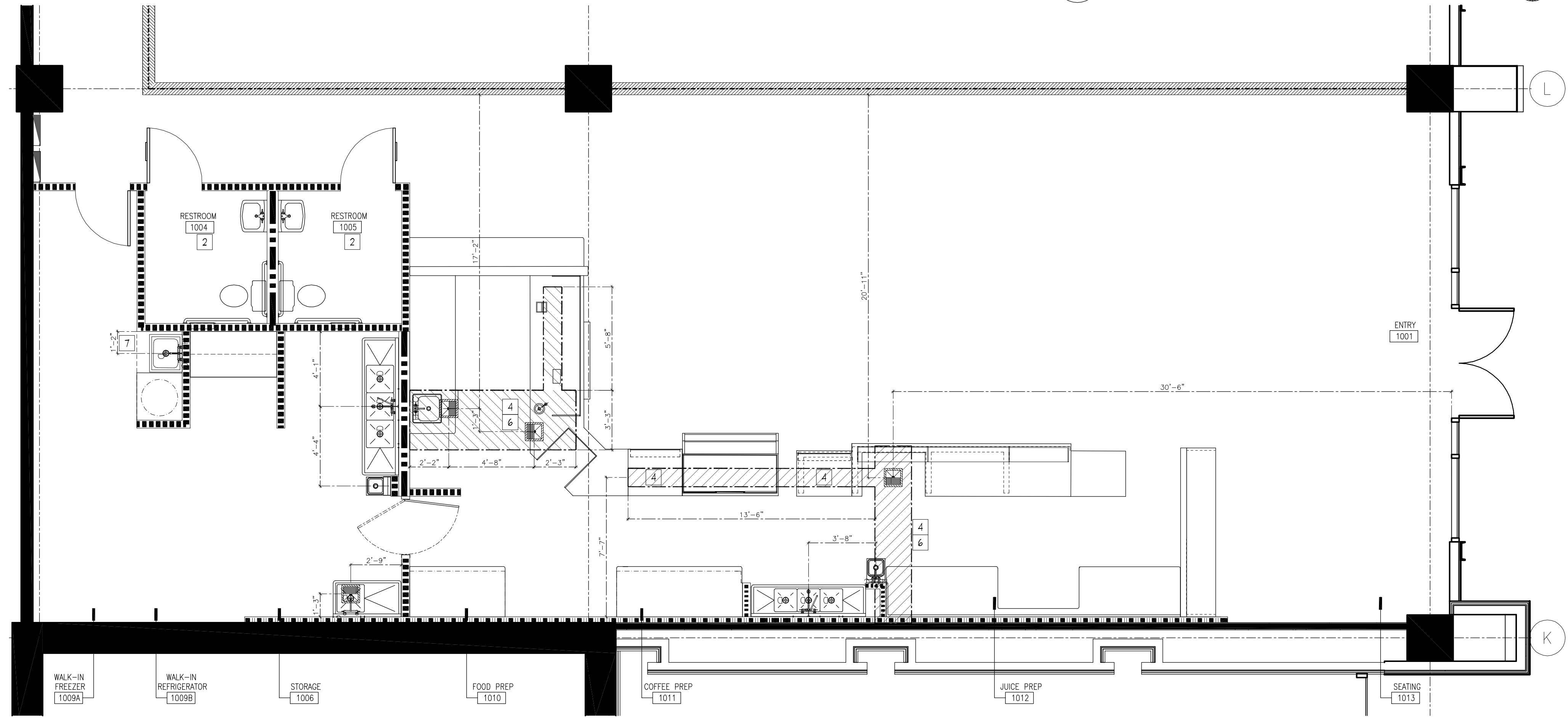
ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34



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

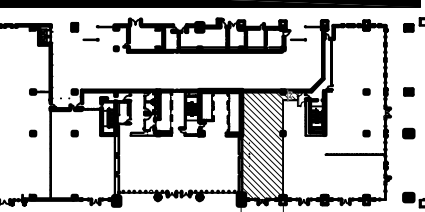
MILLWORK & FLOOR SINK PLAN NOTES:

- 1 EXISTING EXTERIOR STOREFRONT GLAZING & DOOR SYSTEM TO BE PROTECTED DURING CONSTRUCTION.
- 2 NEW RESTROOMS; SEE 1 A0.2 FOR DETAILS
- 3 SEE FSI.0 FOR ACCESSIBLE SEATING
- 4 PROVIDE STUB UP FOR EQUIPMENT ACCOMMODATE NEW FLOOR SINK, DATA LINES, ELECTRICAL CONDUIT, NITRO GAS, WATER SUPPLY LINES PER FSI.0 LAYOUT; COORDINATE WITH MILLWORK VENDOR SHOP DRAWINGS (REFER TO FSI.0, E1.0 & P.10)
- 5 ALL CASEWORK SHOWN SHALL BE SECURED IN PLACE AND BOLTED TO FLOOR AND OR WALLS, BY VENDOR, REFER TO ELEVATIONS FOR HEIGHTS & DETAILS
- 6 CUT TRENCH FOR UTILITIES PER #4 ABOVE; REFER TO DETAILS 11,12 & 15 ON A9.0 FOR STANDARD WATER PROOFING, FLOOR SINK AND BACK FILL DETAIL
- 7 REFER TO 19 ON A9.0
- 8 NEW STAINLESS STEEL BACKLINE AND VEGGIE BIN; SEE FSI.0 & ELEVATIONS FRO DETAILS



2 PLUMBING FIXTURE & FLOOR SINK DIMENSIONS
 SCALE: 1/4"=1'-0"

DRAWINGS AND SPECIFICATIONS
HEREIN ARE INSTRUMENTS OF
SERVICE AND SHALL REMAIN THE
PROPERTY OF CAFE DESIGN &
ARCHITECTURE, LLC WHETHER THE
PROJECT FOR WHICH THEY ARE MADE
IS EXECUTED OR NOT, THEY ARE NOT
TO BE USED BY THE OWNER, THEIR
EMPLOYEES, AGENTS OR ANYONE ON
OTHER PROJECTS OR EXTENSIONS TO
THIS PROJECT EXCEPT BY WRITTEN
PERMISSION AND WITH APPROPRIATE
COMPENSATION TO CAFE DESIGN &
ARCHITECTURE.



GROUND FLOOR
PRINCIPAL ARCHITECT



DATES

Table with 2 columns: Description, Date. Includes rows for Health & Bldg. Submittal, Design Engineering, and Franchise Review.

HEALTH & BLDG. SUBMITTAL 09.30.19
DESIGN ENGINEERING 08.15.19
FOR FRANCHISE REVIEW 07.10.19



CLIENT
DRNK / QWENCH
Store #7235
410 N Scottsdale Rd.
SUITE 107
Tempe AZ, 85281

PROJECT #: 7235
TITLE

REFLECTED CEILING
PLAN

SHEET NO.

A3.0

REFLECTED CEILING PLAN LEGEND:

REFER TO E SHEETS FOR LIGHTING & CIRCUITING

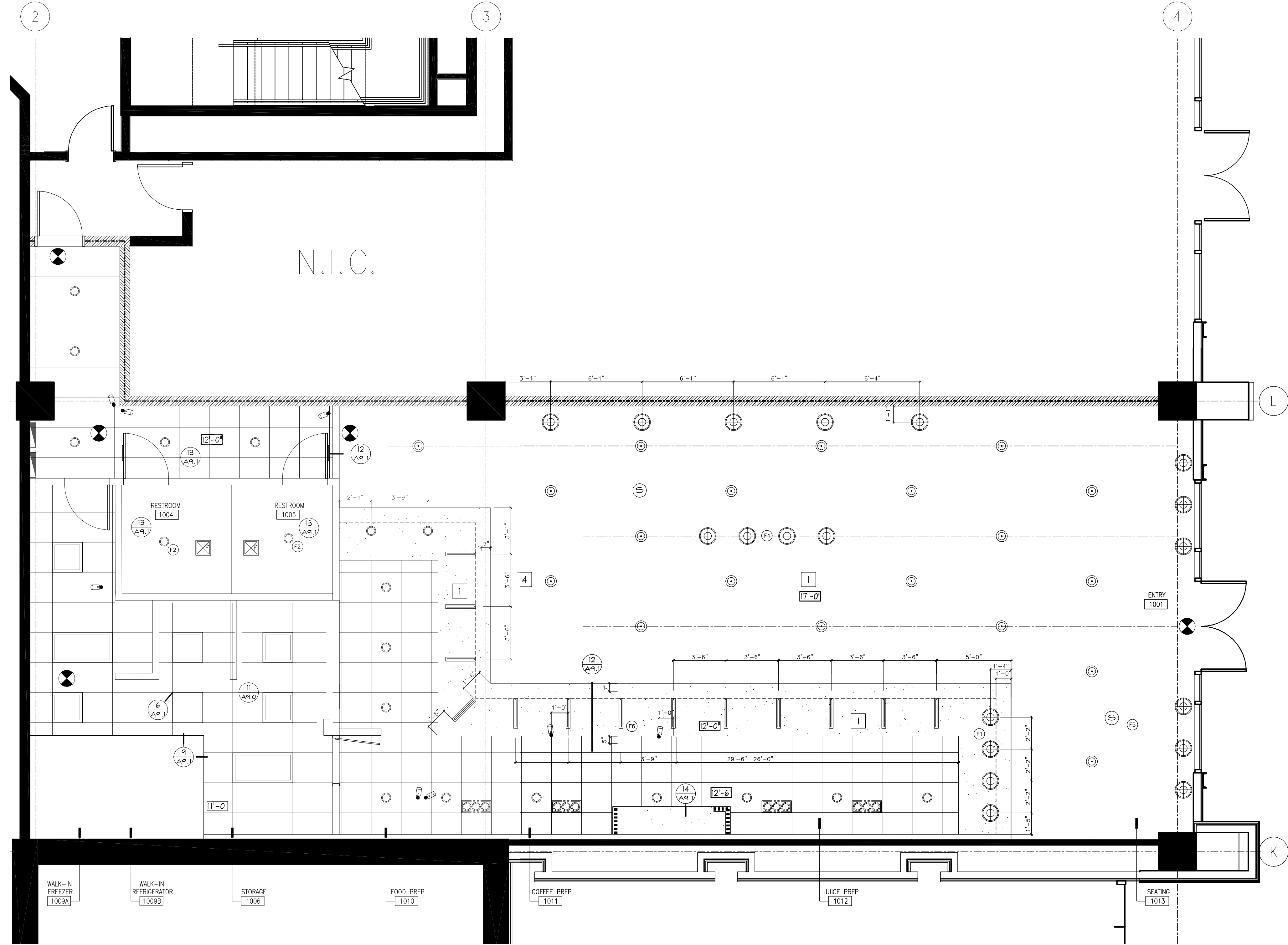
- (N) GYP. BD CEILING: MUD, TAPE AND SAND SMOOTH; PAINT SEMI-GLOSS ENAMEL
(0'-0') EXIST CEILING HEIGHT SYMBOL
(N) NEW 2' X 2' SUSPENDED CEILING GRID AND TILE AT +11'-0" A.F.F. SUSPENDED CEILING GRID: ARMSTRONG 15/16" T" BAR GRID; CEILING PANELS: ARMSTRONG CLEAN ROOM VL
(E) EXISTING TO REMAIN 2' X 4' SUSPENDED CEILING GRID AND TILE AT +11'-0" A.F.F. SUSPENDED CEILING GRID: ARMSTRONG 15/16" T" BAR GRID; CEILING PANELS: ARMSTRONG CLEAN ROOM VL
(1) CUSTOM GLASS SHADE PENDANT WITH LED MODULE MOUNTED AT +36" ABOVE TABLE (78" & 66" A.F.F.)
(2) 4 INCH IC NEW CONSTRUCTION HOUSING WITH RETROFIT TRIM
(3) RECTANGULAR POCKET 3-LAMP ADJUSTABLE ACCENT LIGHT
(4) PENDANT MOUNTED LED CYLINDER AT +144" A.F.F.
(5) RECESSED LED STRIP IN MOUNTING CHANNEL WITH LENS; TRIM FLUSH WITH DRYWALL CEILING; MUD & TAPE
EXISTING 2 X 4 LED TROFFER (S.E.D.)
EXISTING 2 X 2 LED TROFFER (S.E.D.)
SINGLE/DOUBLE FACE EXIT SIGN SELF POWERED ILLUMINATED EXIT SIGN (S.E.D) CLEAR ACRYLIC BLADE STYLE
PROVIDE LV PLENUM RATED WIRING FROM OFFICE #1008 FOR SECURITY CAMERAS PROVIDED BY FRANCHISEE. INSTALLED BY G.C. IN CEILING OR WALL MOUNTED AS NOTED AT 94" A.F.F.
PROVIDE LV PLENUM RATED WIRING FROM OFFICE #1008 FOR SPEAKERS PROVIDED BY FRANCHISEE AND INSTALLED BY G.C.
EXHAUST FAN (S.E.D)

KEY NOTES:

- 1 NEW GYPSUM BOARD CEILING (REFER TO DETAILS ON A9.1)
2 PATCH (E) DEMISING WALL AFTER TRIM & WAINSCOTT DEMO UP TO NEW GYP. BD. CEILING; PREP FOR NEW FINISHES SEE A4.0
3 EXISTING GYP. BD. CEILING @ 11'-0" A.F.F. TO REMAIN ND RECEIVE NEW PAINT SEE A4.0
4 PAINT SIDES OF SOFFIT AND UPPER CEILING P4 (SEE A4.0)
5 EXISTING DOOR ACTIVATED AIR CURTAIN BERNER MODEL CLC08-1042A 41" WIDTH NOZZLE WITH 1,755 FPM

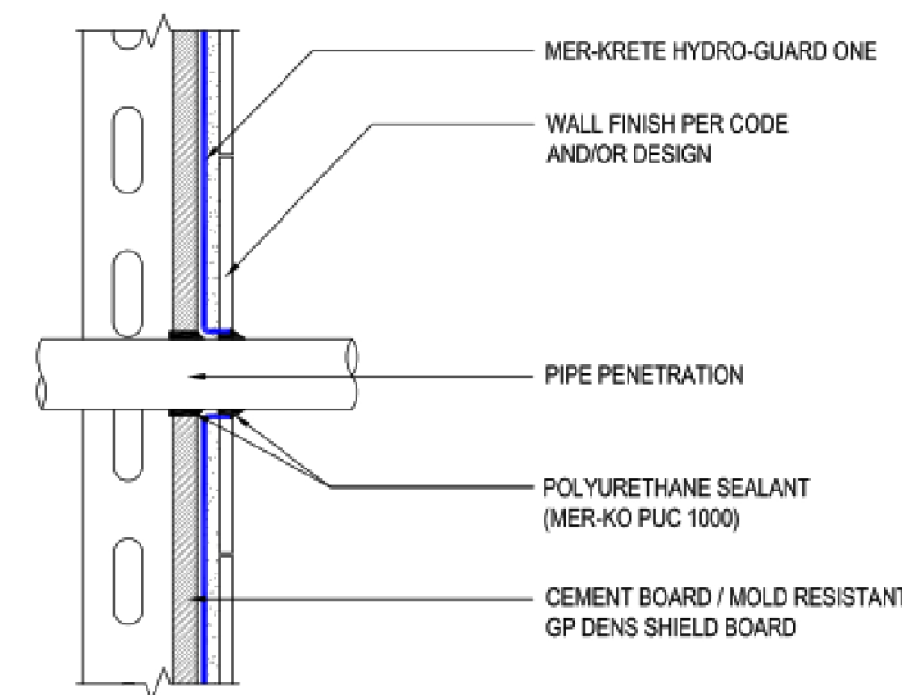
NOTES:

- 1. ANY SECURITY OR OTHER EQUIPMENT LOCATED IN THE MAIN ENTRY AREA MUST BE INSTALLED IN MANNER THAT IS CONCEAL FROM PUBLIC VIEW. ALL SECURITY DEVICES AND SYSTEMS SHALL BE INTEGRATED WITHIN THE STOREFRONT DESIGN AND FINISHES. FREESTANDING SENSOR PEDESTALS ARE PROHIBITED.
2. ANY HARD LID CEILINGS AND SOFFITS CANNOT CONNECT TO THE STOREFRONT BELOW THE STOREFRONT FRAMING SYSTEM
3. ACCESS PANELS SHALL BE INSTALLED IN ALL CEILING AREAS; ANY ACCESS PANEL TYPE DOOR SPECIFICATION MUST BE A STYLEMARK TYPE DRYWALL CEILING ACCESS DOOR (INTERSOURCE SPECIALTIES COMPANY / WWW.INTERSOURCECO.COM).
4. ANY SECURITY OR OTHER EQUIPMENT LOCATED IN THE MAIN ENTRY AREA MUST BE INSTALLED IN MANNER THAT IS CONCEAL FROM PUBLIC VIEW. ALL SECURITY DEVICES AND SYSTEMS SHALL BE INTEGRATED WITHIN THE STOREFRONT DESIGN AND FINISHES. FREESTANDING SENSOR PEDESTALS ARE PROHIBITED.
5. ANY HARD LID CEILINGS AND SOFFITS CANNOT CONNECT TO THE STOREFRONT BELOW THE STOREFRONT FRAMING SYSTEM
6. ANY NON-ILLUMINATED, AND/OR ILLUMINATED SIGNAGE CANNOT BE PLACED AT THE INSIDE OF STOREFRONT SYSTEM WITHIN THE PREMISE. SIGNAGE MUST BE INSTALLED AT LEAST 3'-0" OFF THE INSIDE OF THE STOREFRONT SYSTEM
7. BUG-EYE TYPE EXIT LIGHT FIXTURES ARE NOT ALLOWED IN AREAS THAT ARE VISIBLE TO THE PUBLIC. TENANT IMPROVEMENT PLANS AND FINAL CONSTRUCTION MUST INSTALL A RECESSED OR SURFACE MOUNTED CLEAR ACRYLIC BLADE EXIT SIGN AT THE STOREFRONT ENTRY. SEE SPECS
8. ALL ELECTRICAL RUNS IN THE OPEN CEILING AREA OF THE TENANT PREMISES IN THE FRONT OF HOUSE MUST BE RIGID CONDUIT. THE USE OF FLEX CONDUIT IS PROHIBITED. IN ADDITION, ANY ELECTRICAL RUN FROM THE CEILING TO A SUSPENDED LIGHT FIXTURE MUST BE HIDDEN IN A RIGID SLEEVE

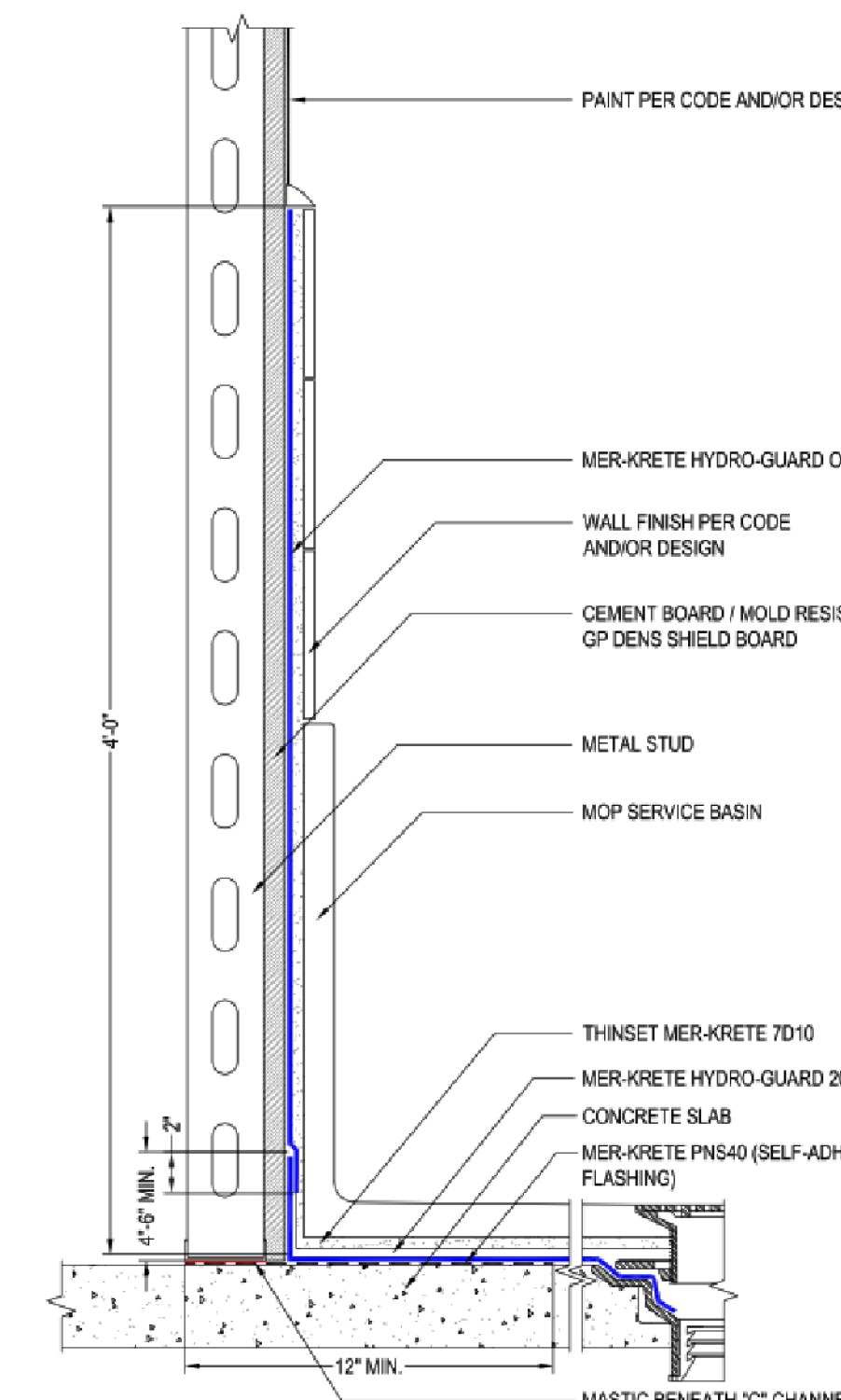


1 REFLECTED CEILING PLAN
A3.0 SCALE: 1/4"=1'-0"

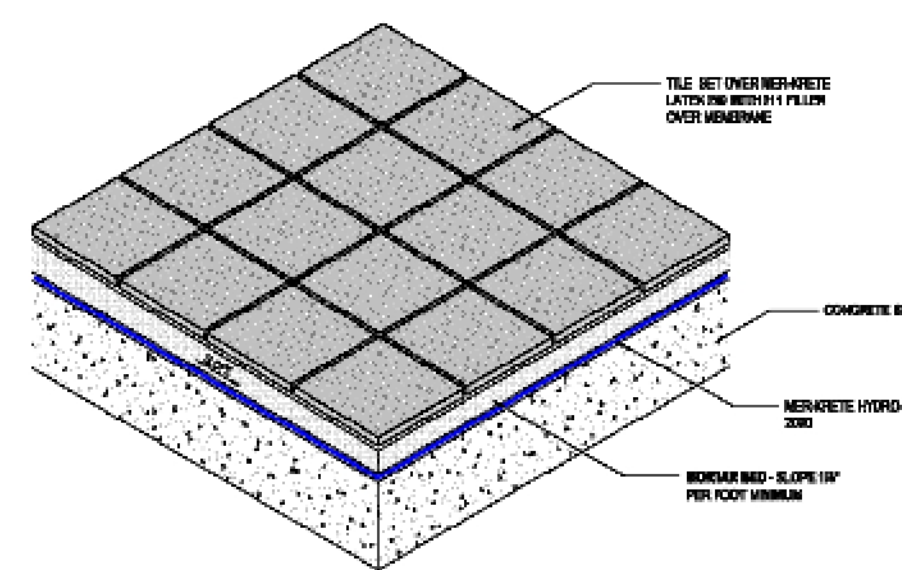
ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34



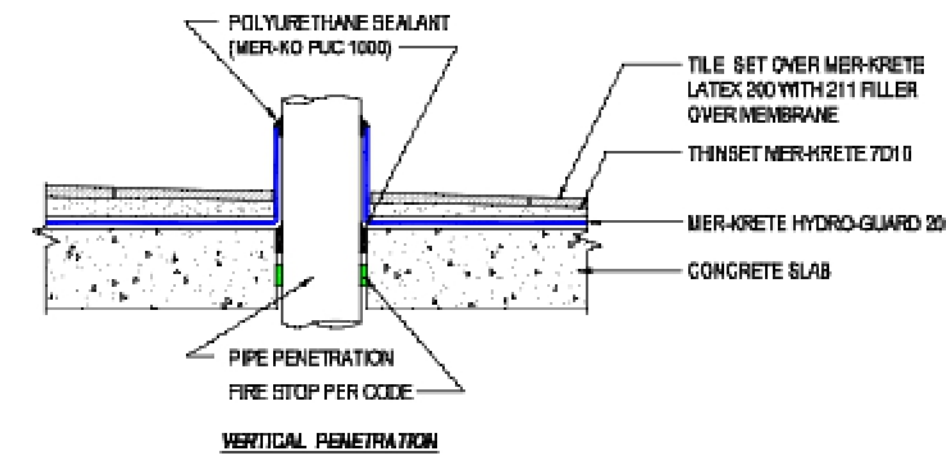
17 WP DETAIL @ WALL PENETRATIONS
SCALE: N.T.S.



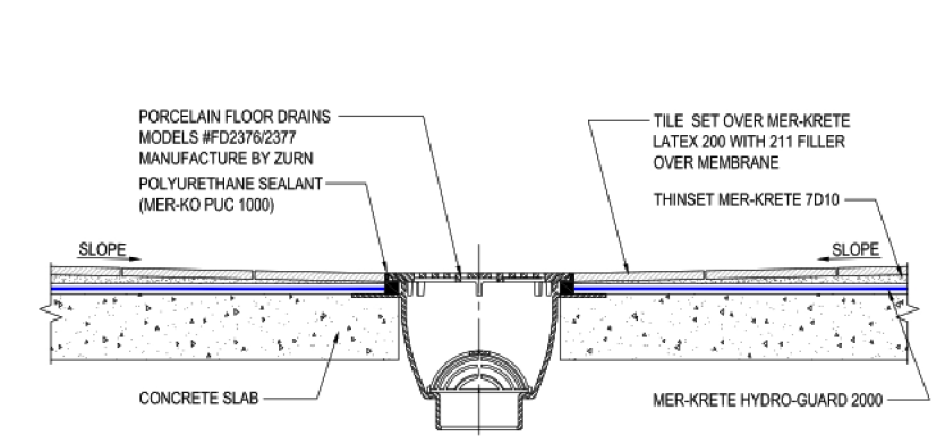
19 WP DETAIL @ WALL & FLOOR
SCALE: N.T.S.



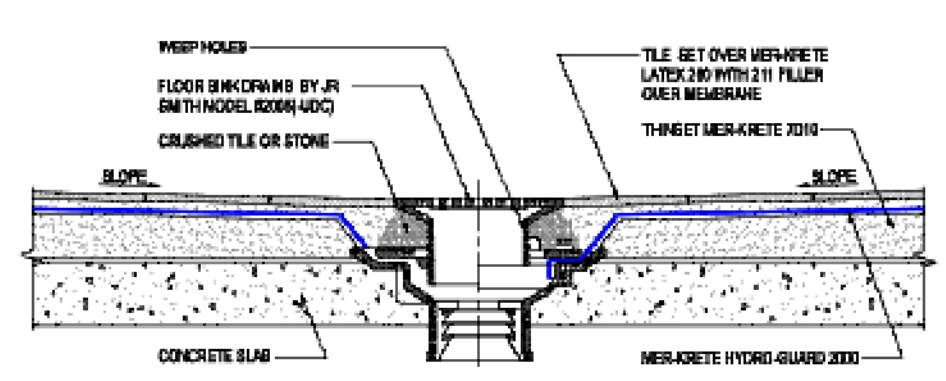
20 WP DETAIL @ FL. TILE (MORTAR BED)
SCALE: N.T.S.



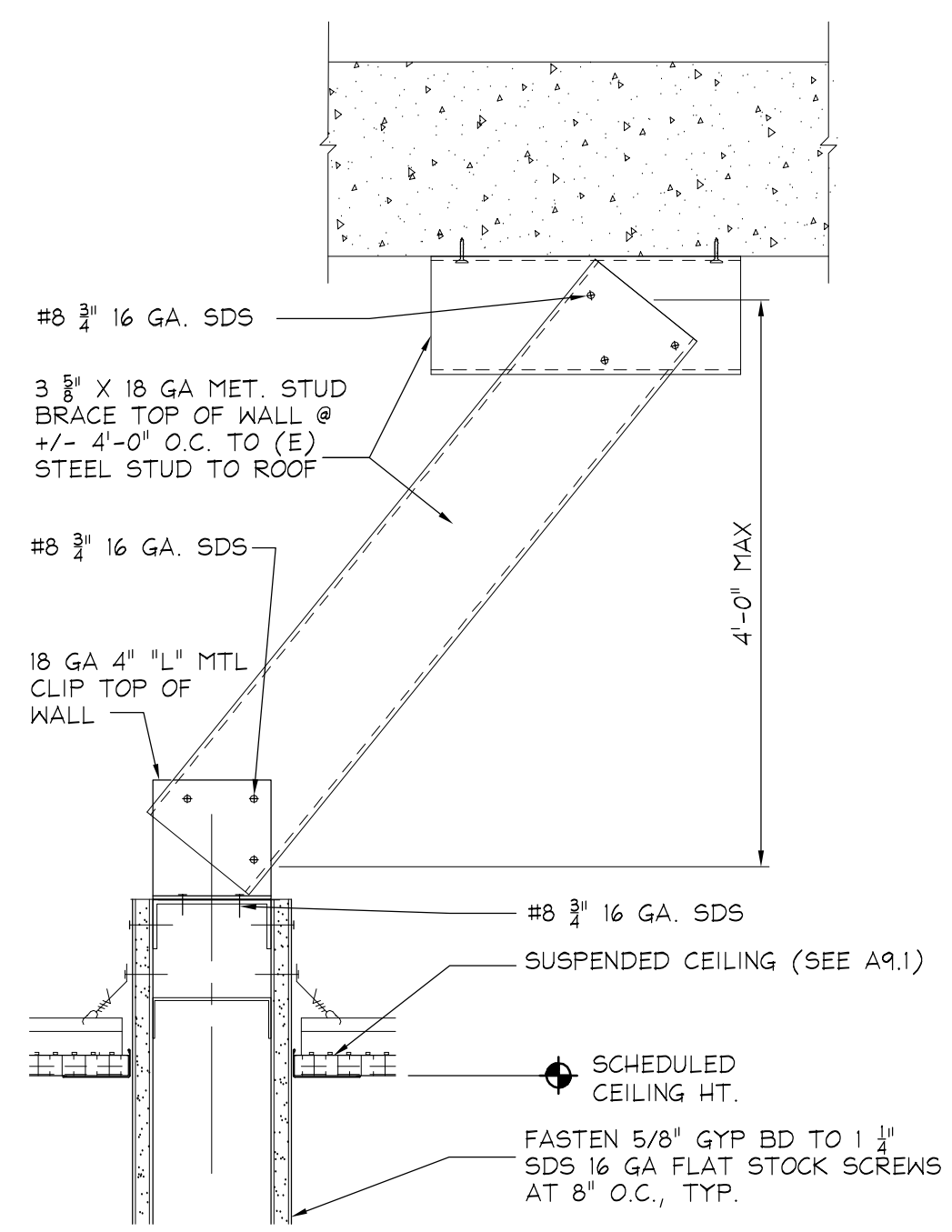
13 WP DETAIL @ FLOOR PENETRATIONS
SCALE: N.T.S.



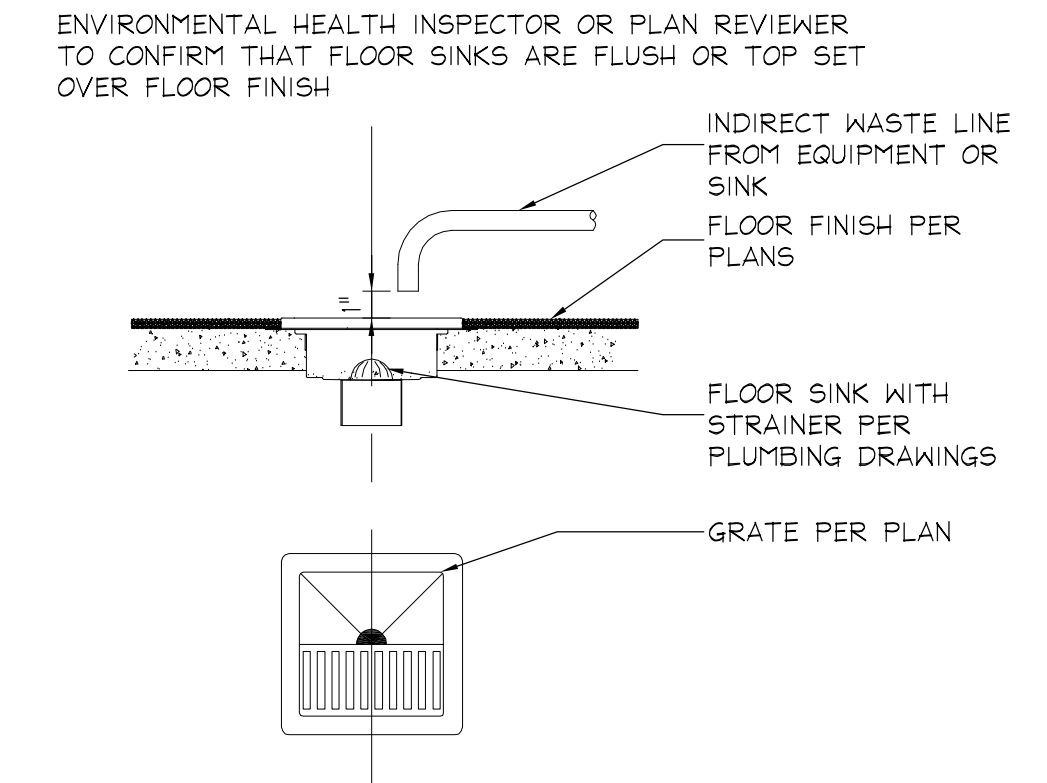
14 WP DETAIL @ FLOOR SINK & TILE
SCALE: N.T.S.



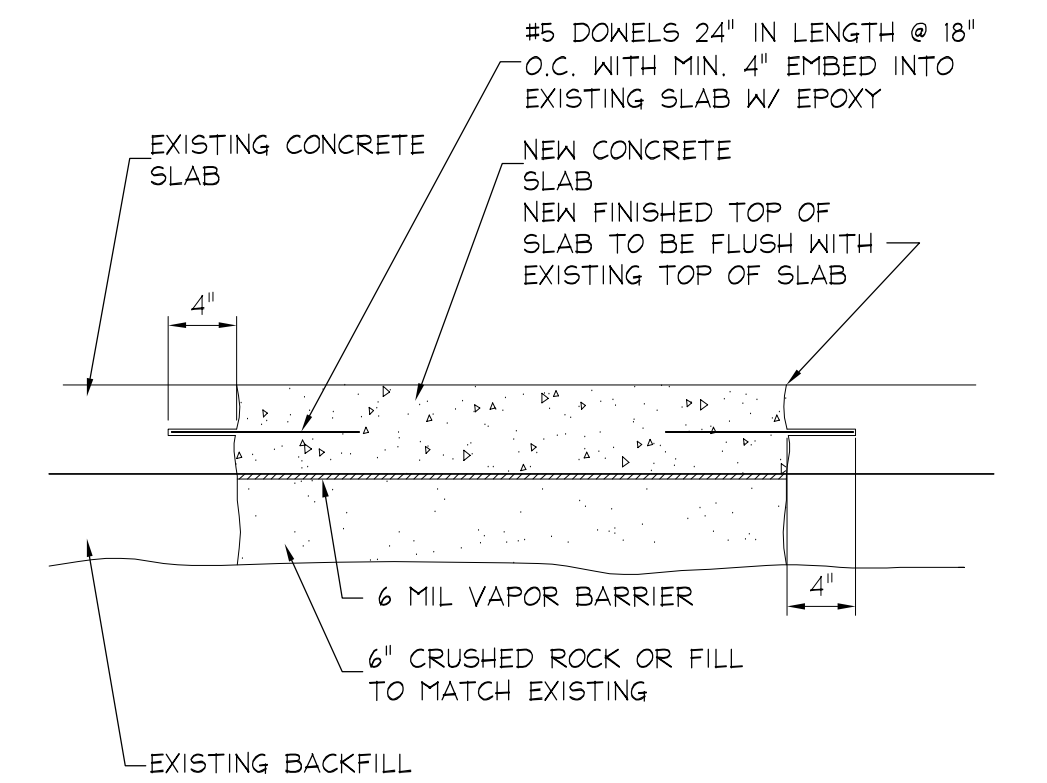
15 WP DETAIL @ FLOOR DRAIN & TILE
SCALE: N.T.S.



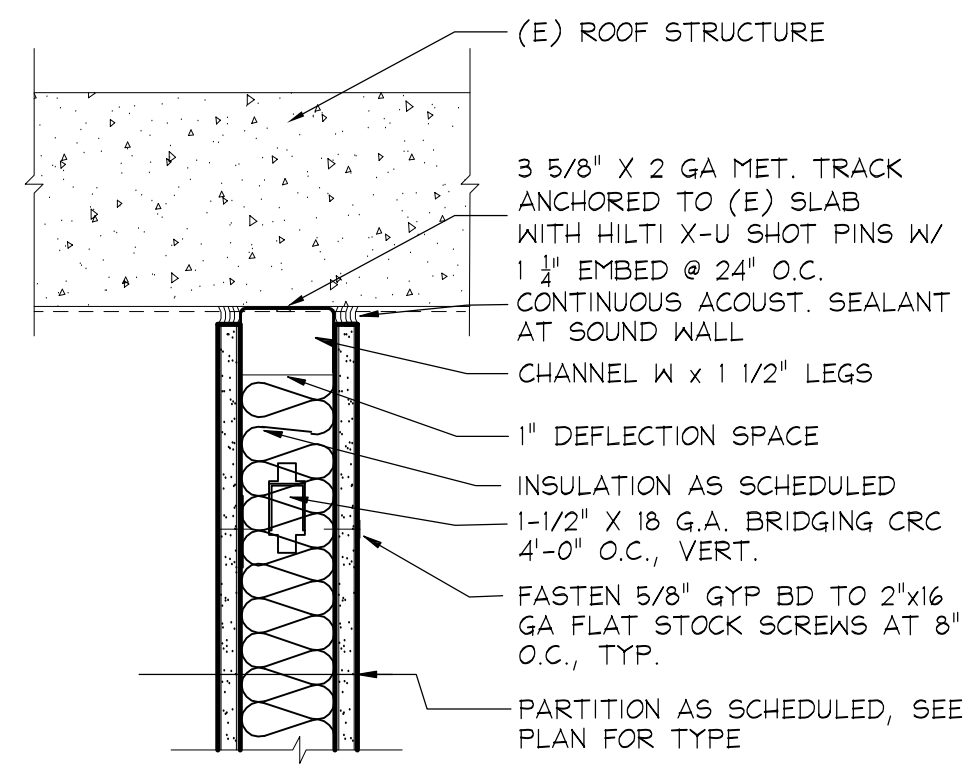
10 CEILING HT. WALL (HEAD)
SCALE: N.T.S.



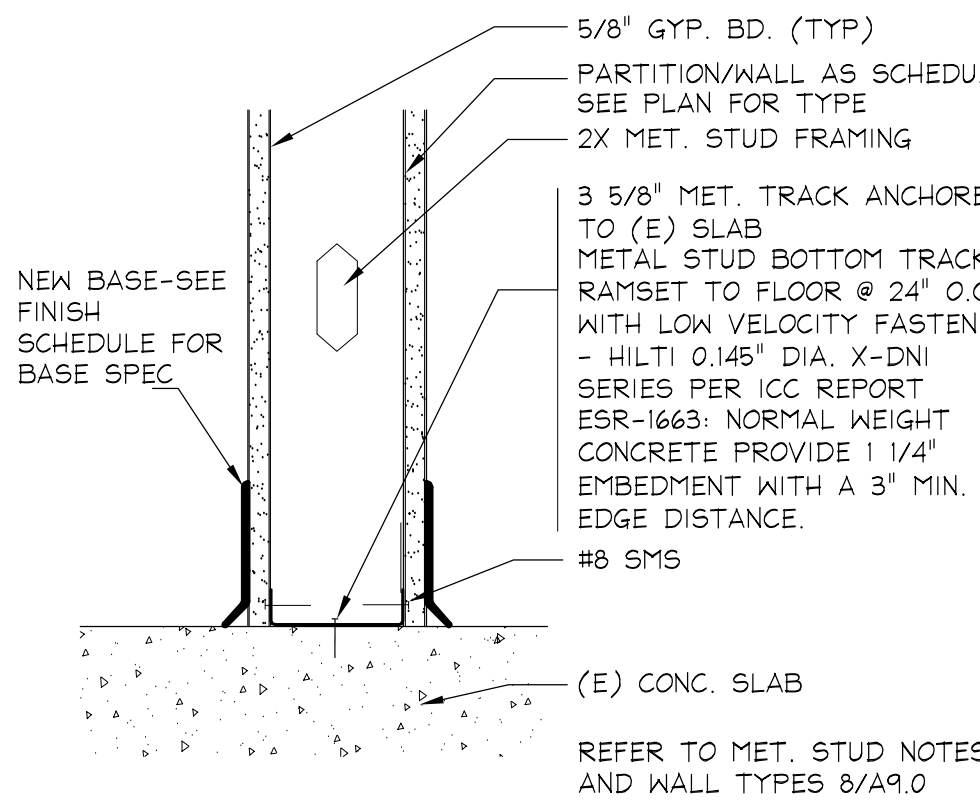
11 TYPICAL FLOOR SINK DETAIL
SCALE: N.T.S.



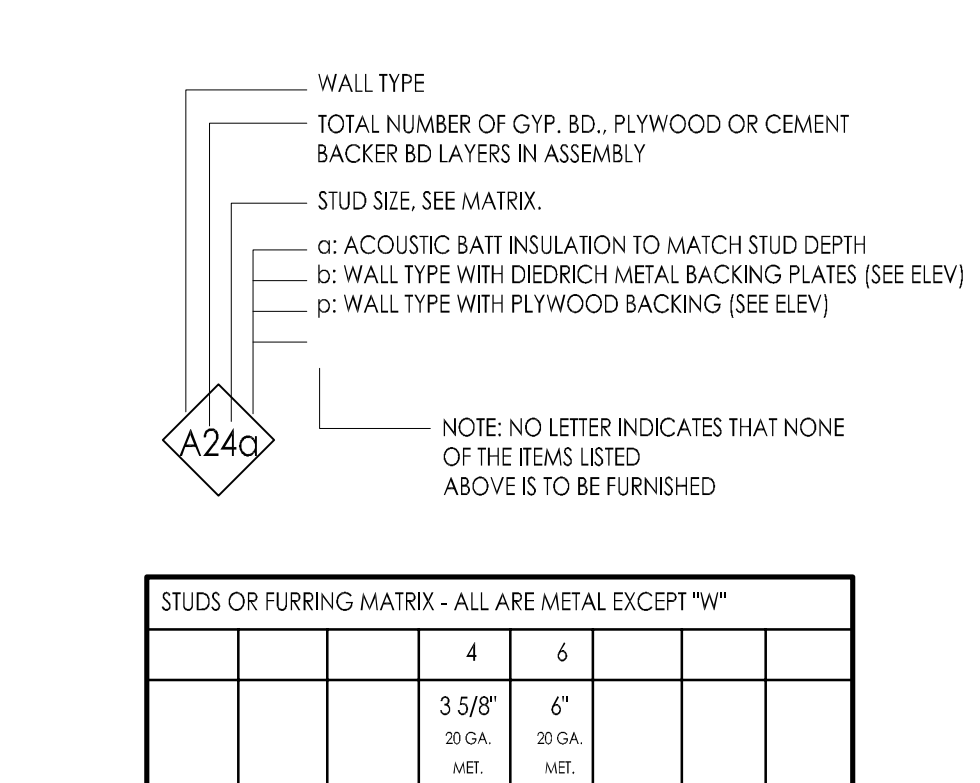
12 BACKFILL AT PLUMBING TRENCH
SCALE: N.T.S.



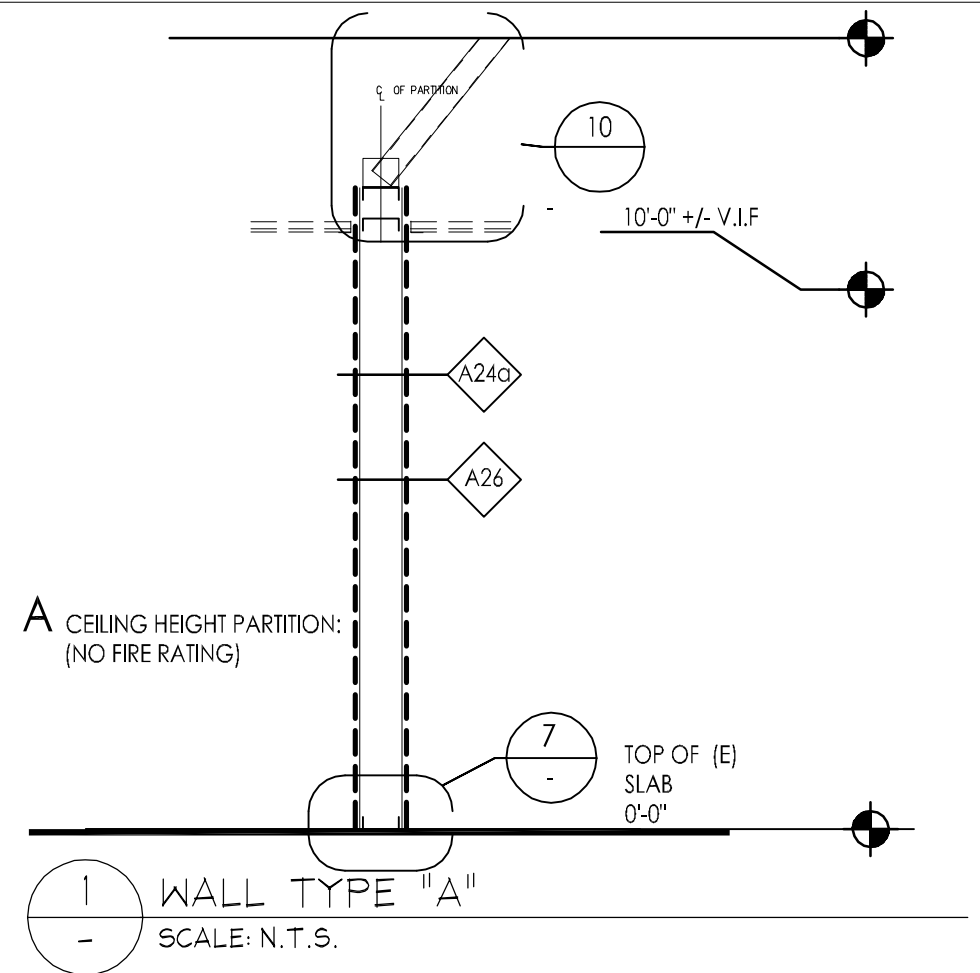
5 FULL HEIGHT WALL HEAD DETAIL
SCALE: N.T.S.



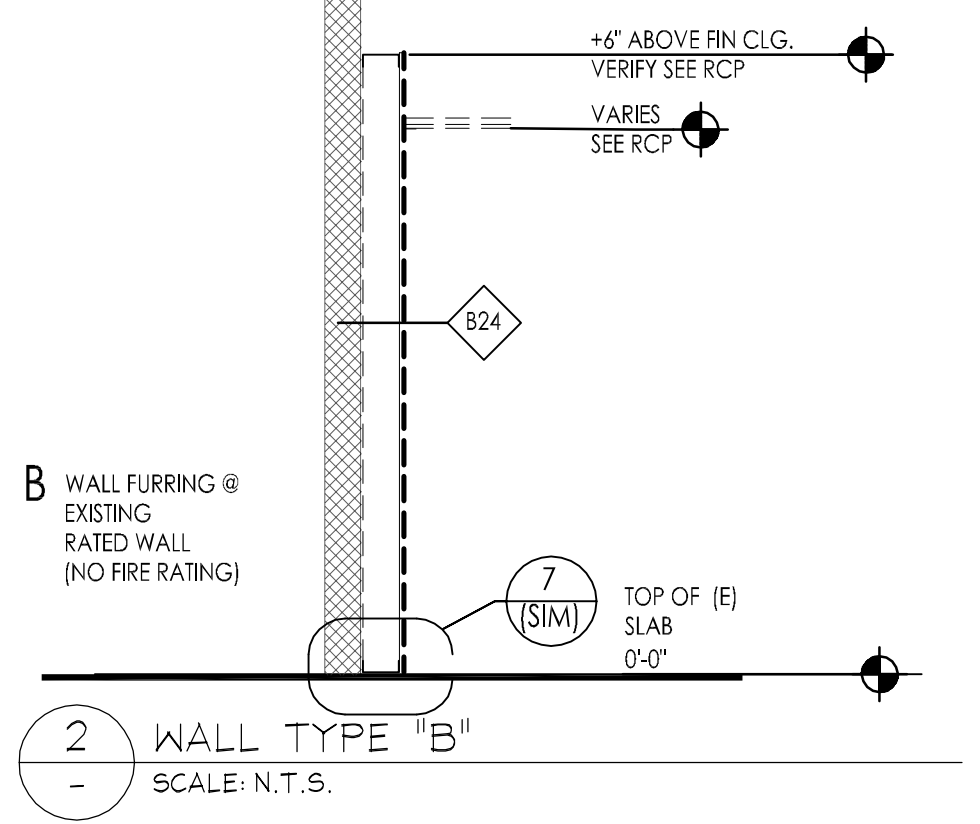
7 TYPICAL WALL (SILL)
SCALE: N.T.S.



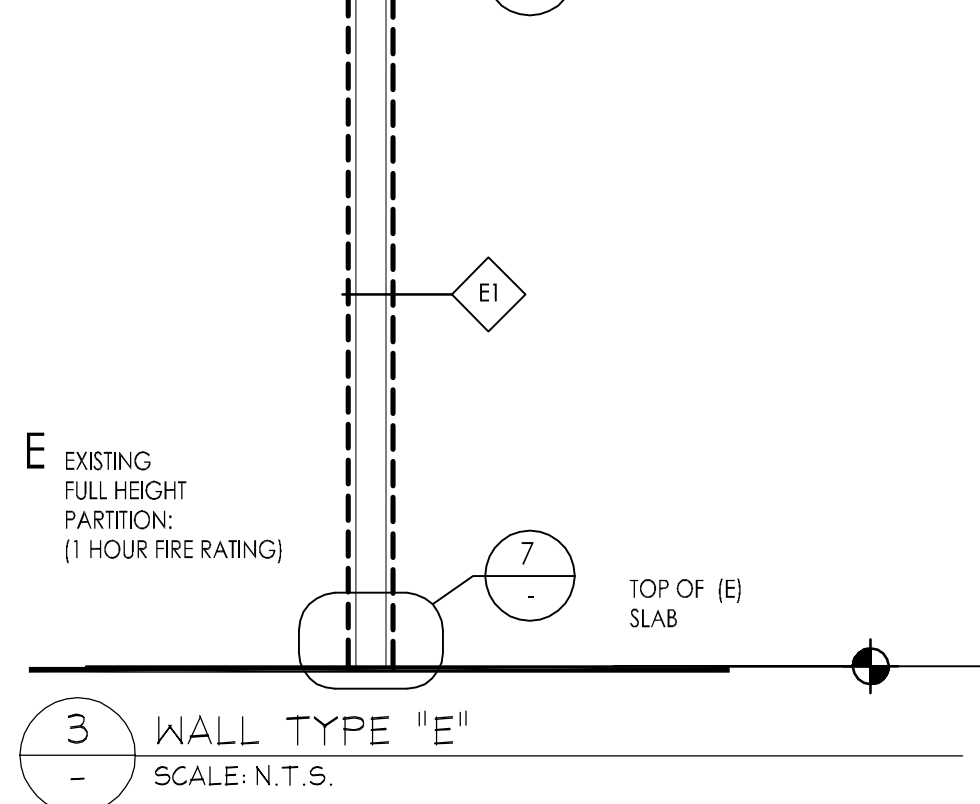
8 WALL TYPE LEGEND
SCALE: N.T.S.



1 WALL TYPE "A"
SCALE: N.T.S.



2 WALL TYPE "B"
SCALE: N.T.S.



3 WALL TYPE "E"
SCALE: N.T.S.

1. WHERE UL GA OR IBC CONSTRUCTION ASSEMBLIES ARE DESIGNATED, THE COMPONENTS AND INSTALLATION DETAILS MUST CONFORM IN EVERY ASPECT TO THE DESIGN NUMBER SPECIFIED.

2. FOR INTERIOR METAL STUDS: PROVIDE 20 GAUGE MIN. AND 24" O.C. SPACING. PROVIDE DOUBLE FULL HT. 18 GA STUDS @ JAMBS OF ALL DOORS AND OPENINGS OVER 24".

3. NOT USED

4. PROVIDE 16GA. BACKING PLATES AND CORRESPONDING GAUGE METAL STUDS IN PARTITIONS AS REQUIRED TO SUPPORT ALL WALL MOUNTED ITEMS INCLUDING (BUT NOT LIMITED TO) SHELVING, CASEWORK, CABINETS, EQUIPMENT & TOILET ROOM ACCESSORIES.

5. FOR TYPICAL WALL HVAC AND PIPE AND CONDUIT PENETRATION DETAILS PER PLUMBING AND ELEC. DWGS: PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS SHALL BE FIRE STOPPED PER DETAIL AND SPECIFICATIONS. HVAC DUCT PENETRATIONS SHALL BE PROVIDED W/ FIRE DAMPERS PER MECH DWGS. AND SPECIFICATIONS.

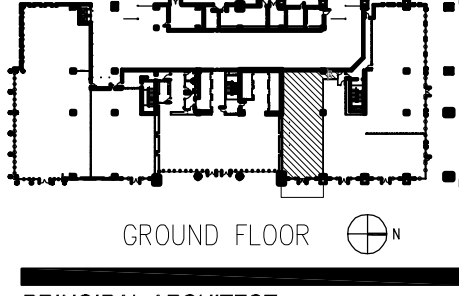
6. ALL CH STUDS SHALL BE 24" O.C. TYP.

7. ALL INTERIOR WALLS & EXTERIOR FURRING SHALL BE FULLY SEALED WITH ACOUSTICAL CAULK OR RATED FIRESTOP SEALANT.

WALL STUDS
NOTE: ICG REPORT CLARK, DIEBRICH #ESR-1664 FOR METAL STUDS, TOP, BOTTOM TRACK & BRACING CHART BASED UPON 5 PSF WIND LOAD APPLIED TO WALL SURFACE FROM STEEL STUD MANUFACTURERS ASSOCIATION PRODUCT TECHNICAL INFORMATION (ESR-1663)

SIZE/GAUGE	DEFLECTION AREA	4		3		MAXIMUM STUD HEIGHT
		(1)	(5)	12' O.C.	16' O.C.	
3-5/8" X 25 GA.	1/120	.118	.227	.125		15'4" 13'9" 33ksi
3-5/8" X 22 GA.	1/120	.176	.336	.185		18'9" 15'11" 33ksi
3-5/8" X 20 GA.	1/120	.215	.407	.224		20'8" 18'6" 33ksi
3-5/8" X 18 GA.	1/120	.278	1.381	.460		25'3" 23'5" 21'3" 33ksi
6" X 25 GA.	1/120	.153	.630	.229		22'10" 19'9" 16'9" 33ksi
6" X 22 GA.	1/120	.229	.938	.375		31'0" 26'10" 21'11" 33ksi
6" X 20 GA.	1/120	.279	1.031	.414		33'11" 30'11" 26'3" 33ksi

DRAWINGS AND SPECIFICATIONS HEREIN ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF CAFE DESIGN & ARCHITECTURE, LLC WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, THEY ARE NOT TO BE USED BY THE OWNER, THEIR EMPLOYEES, AGENTS OR ANYONE ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY WRITTEN PERMISSION AND WITH APPROPRIATE COMPENSATION TO CAFE DESIGN & ARCHITECTURE.



DATES

HEALTH & BLDG. SUBMITTAL	09.30.19
DESIGN ENGINEERING	08.15.19
FOR FRANCHISE REVIEW	07.10.19



CLIENT
DRNK / QWENCH
Store #7235
410 N Scottsdale Rd.
SUITE 107
Tempe AZ, 85281

PROJECT #: 7235
TITLE

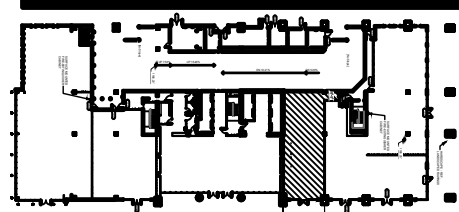
WALL DETAILS

SHEET NO.

A9.0

ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34

DRAWINGS AND SPECIFICATIONS HEREIN ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF CAFE DESIGN & ARCHITECTURE, LLC WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, THEY ARE NOT TO BE USED BY THE OWNER, THEIR EMPLOYEES, AGENTS OR ANYONE ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY WRITTEN PERMISSION AND WITH APPROPRIATE COMPENSATION TO CAFE DESIGN & ARCHITECTURE.



GROUND FLOOR

PRINCIPAL ARCHITECT



DATES

Table with 2 columns: Date, Description. Includes dates for Health & Bldg. Resubmittal (09.15.19), Design Engineering (08.15.19), and Franchise Review (07.10.19).

HEALTH & BLDG. RESUBMITAL 09.15.19
DESIGN ENGINEERING 08.15.19
FOR FRANCHISE REVIEW 07.10.19



CLIENT
DRNK / QWENCH
Store #7235
Suite 107
Tempe Az

PROJECT #: 7235
TITLE

MECHANICAL FLOOR PLAN

SHEET NO.

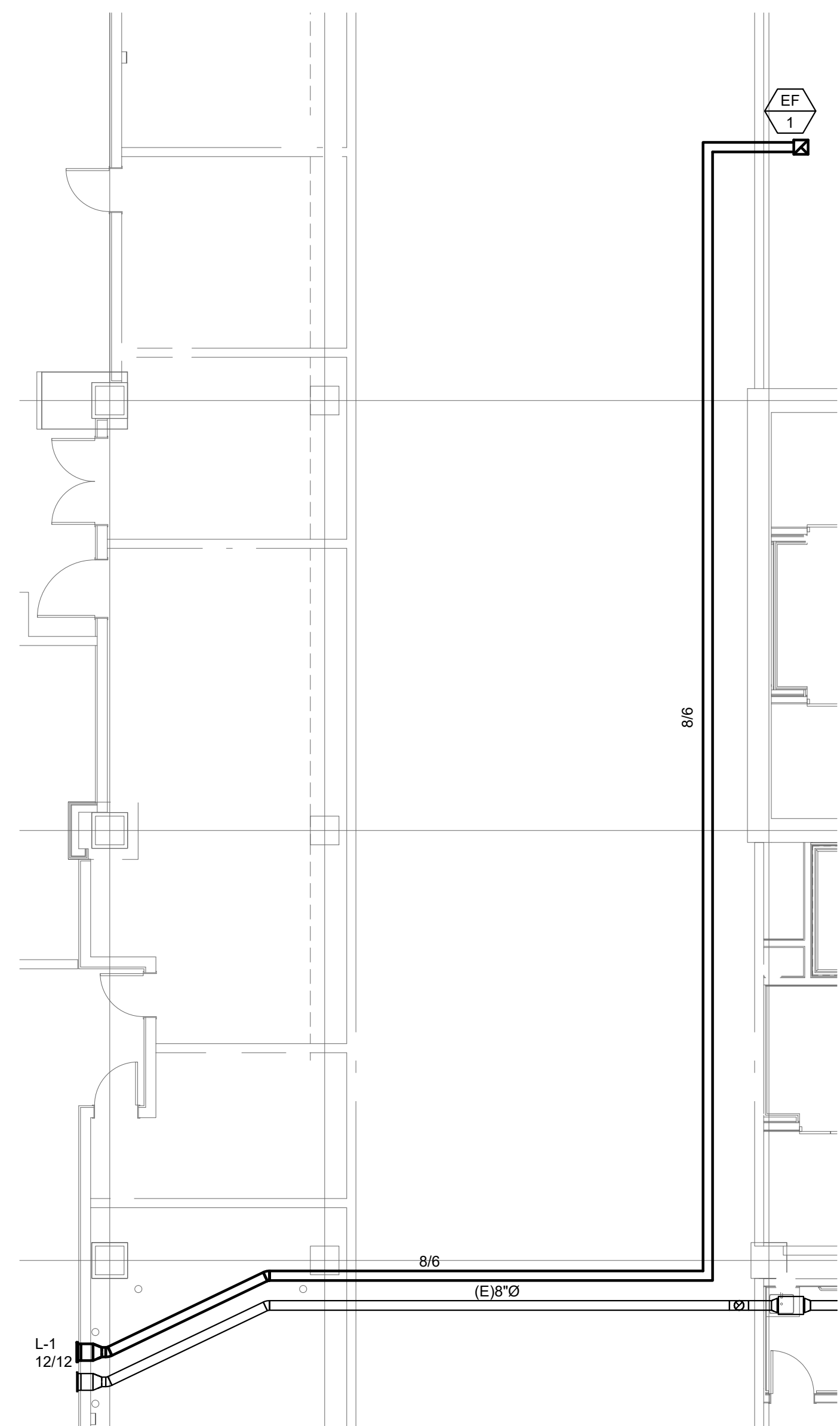
M2.1

SHEET NOTES

- A. INSTALLATION SHALL CONFORM TO THE INTERNATIONAL MECHANICAL CODE, 2018, AS ADOPTED BY THE CITY OF TEMPE.
B. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PURCHASE OF MATERIALS OR FABRICATION OF EQUIPMENT. COORDINATE WITH ALL OTHER TRADES (ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, ETC.) PRIOR TO INSTALLATION OF ANY EQUIPMENT.
C. EXAMINE CONDITION OF EXISTING ROOFTOP UNIT. VERIFY THE UNIT IS IN GOOD OPERATING CONDITION WITH PROPER REFRIGERANT CHARGE, CLEAN FILTERS, OPERATING OUTSIDE AIR HOOD/DAMPER, AND PROPER DRIVE BELTS. SHOULD ANY DEFICIENCIES BE FOUND, NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
D. SLOPE CONDENSATE TOWARDS OUTLET AT 1/8" PER FOOT. MATERIALS AND INSULATION PER MATERIALS SCHEDULE.

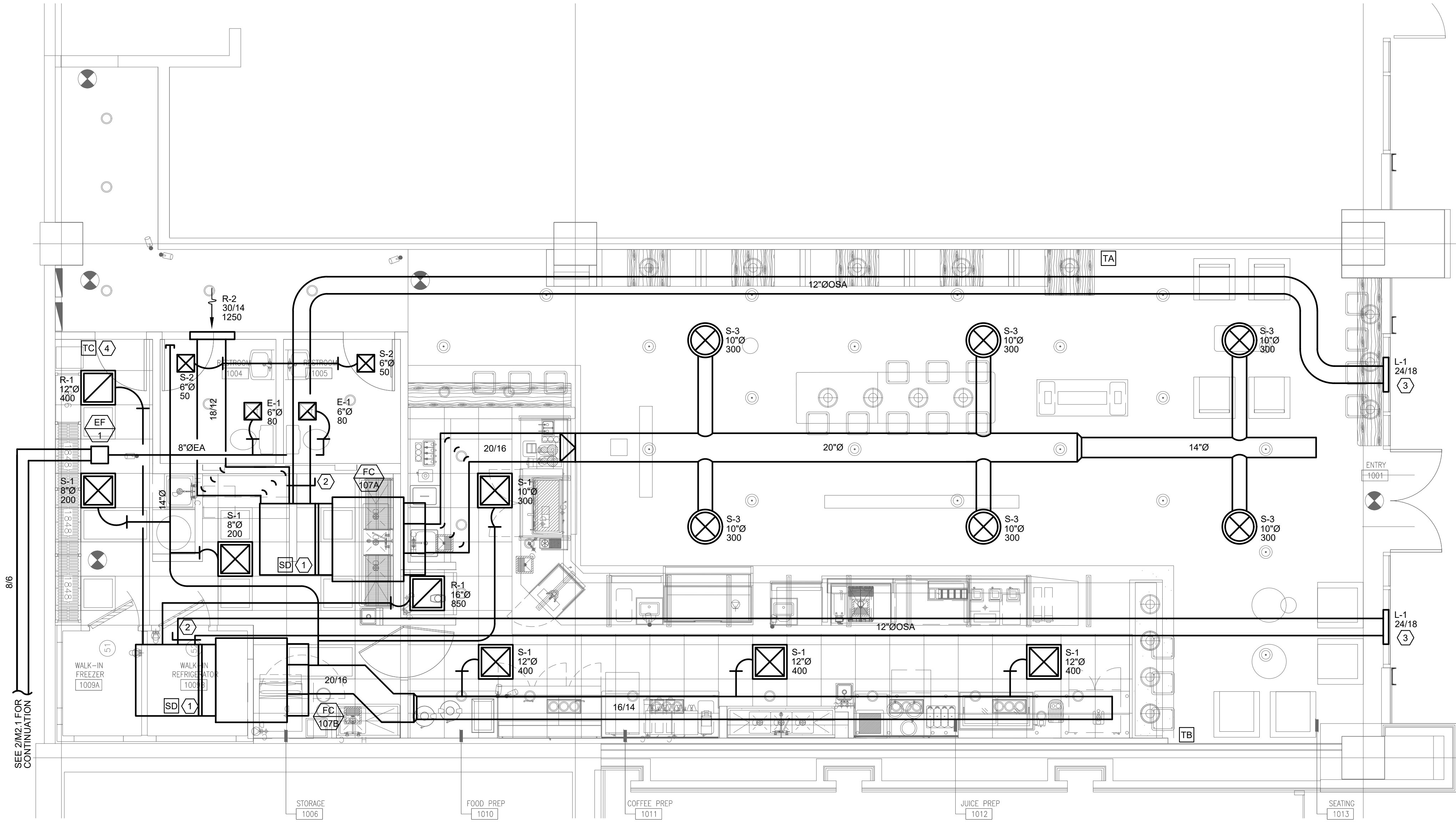
KEYED NOTES

- 1. DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
2. MANUAL BALANCING DAMPER AND GRAVITY BACKDRAFT DAMPER. BALANCE PER OUTSIDE AIR CALCULATION.
3. ADD 24" TALL FRESH AIR LOUVER IN THE WALL OVER INDICATED STOREFRONT. INSTALL AS HIGH AS POSSIBLE ABOVE STOREFRONT BUT NOT LOWER THAN THE BOTTOM OF THE SCREEN FRAMING.
4. TIME CLOCK TO CONTROL EF-1.



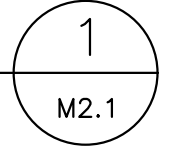
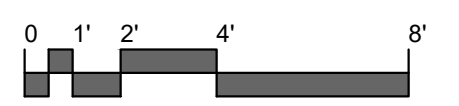
MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1'



MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'



PROJECT #19.0217
15655 W. ROOSEVELT ST., #109
GOODYEAR, AZ 85338
GABRIEL@MILLICANENGINEERING.COM
WWW.MILLICANENGINEERING.COM

ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34"

FIXTURE UNIT CALCULATIONS					W.S.F.U.					SANITARY		GREASE WASTE	
TAG	FIXTURE:	QTY		EACH			TOTALS			DFU		EACH	TOTALS
		EXISTING	NEW	TOTAL	COLD	HOT	TOTAL	COLD	HOT	EACH	TOTALS		
WC-1	WATER CLOSET - FT - PUBLIC		2	5	5	0	10	10	0	4	8		
LAV-1	LAVATORY - PUBLIC		2	2	1.5	1.5	4	3	3	1	2		
5	COFFEE MACHINE		1	1	1	0	1	1	0	1	1		
11	DRIPPERWELL		1	1	1	0	1	1	0	1	1		
14	COFFEE MACHINE		2	1	1	0	2	2	0	1	2	1	1
21	2 COMPARTMENT PREP SINK		1	4	3	3	4	3	4	4	4		
23	HAND SINK		1	2	1.5	1.5	2	1.5	1.5	2	2		
24	HAND SINK		1	2	1.5	1.5	2	1.5	1.5	2	2		
33	DRIPPERWELL		2	1	1	0	2	2	0	1	2		
46	2 COMPARTMENT VEGETABLE SINK		1	6	4.5	4.5	6	4.5	4.5	3	3		
56	ICE MACHINE		1	2	2	0	2	2	0	3	3		
57	3 COMPARTMENT POT SINK		2	5	3.75	3.75	10	7.5	7.5	6	12		
60	STEAMER		1	2	0	2	2	0	2	2	2		
65	SINGLE COMPARTMENT SINK		1	4	3	3	4	3	3	3	3		
66	HAND SINK		2	2	1.5	1.5	4	3	3	2	4		
68	MOP SINK / SERVICE SINK		1	3	2.25	2.25	3	2.25	2.25	6	6		
TOTAL FIXTURE UNITS:							59	47.25	31.25	57		1	

WATER SIZING CALCULATIONS			
ASSUMPTIONS			
PRV SETPOINT	60.0	PSI	
FIXTURE HEIGHT	10.0	FEET	
PIPE LENGTH, METER TO FIXTURE	200.0	FEET	
TOTAL DEVELOPED LENGTH			
FITTING LOSS	20 %	40.0	FEET
TOTAL DEVELOPED LENGTH (TDL)	240.0	FEET	
LOSS CALCULATIONS			
STATIC	10.0 x 0.43	4.3	PSI
METER		10.0	PSI
BFP		10.0	PSI
FIXTURE		25.0	PSI
AVAILABLE PRESSURE			
INCOMING PRESSURE	60.0	PSI	
TOTAL LOSS	49.3	PSI	
	DIFFERENCE	10.7	PSI
ALLOWABLE PRESSURE DROP			
(PSI DIFFERENCE) X 100 / TDL =	10.7 x 100 /	240.0	
ALLOWABLE PRESSURE DROP PER 100 FEET =	4.5	PSI	

DCW PIPE SIZE (8 FT/SEC)			
PIPE SIZE	MAX GPM	FLUSH TANK FU	FLUSH VALVE FU
1/2	2	2	0
3/4	5	6	1
1	10	14	2
1 1/4	20	30	5
1 1/2	34	65	19
2	72	235	117
2 1/2	116	460	335
3	181	819	785
DHW PIPE SIZE (5 FT/SEC)			
PIPE SIZE	MAX GPM	FLUSH TANK FU	FLUSH VALVE FU
1/2	2	2	0
3/4	5	6	1
1	10	14	2
1 1/4	18	26	4
1 1/2	27	45	10
2	47	115	40
2 1/2	72	235	117
3	120	480	360

FIXTURE CONNECTION SCHEDULE					
SYM.	DESCRIPTION	WASTE	VENT	HW	CW
WC-1	TANK WATER CLOSET	3"	2"	-	3/4"
LAV-1	LAVATORY	2"	1-1/2"	1/2"	1/2"
FS-1	FLOOR SINK	3"	2"	-	-

PLUMBING FIXTURES AND CONNECTION SCHEDULE		
CONTRACTOR SHALL PROVIDE ARCHITECT W/ PLUMBING SUBMITTALS FOR ALL EQUIPMENT, FIXTURES, FAUCETS & TRIM. FOR APPROVAL. (ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER AND ARCHITECT.)		
SYM.	DESCRIPTION	REMARKS & SPECIFICATIONS
WC-1	WATER CLOSET, FLUSH TANK	AMERICAN STANDARD 215AA "CADET PRO", ADA COMPLIANT HEIGHT, ELONGATED BOWL. 1.28 GPF. QUARTER TURN BALL VALVE ANGLE STOP WITH 12" STAINLESS STEEL FLEXIBLE RISER. AMERICAN STANDARD 5901.110 ELONGATED OPEN FRONT SEAT. TRIP LEVEL ON OPEN SIDE.
LAV-1	LAVATORY, WALL HUNG	AMERICAN STANDARD #0124.024 COMRADE WALL HUNG LAVATORY. VITREOUS CHINA, 4" CENTER FAUCET HOLES. FAUCET: DELTA 523-HDF-DST 4" CENTERS CHROME FAUCET, 0.5 GPM, VANDAL RESISTANT AERATOR, GRID STRAINER, CONCEALED ARM SUPPORT. PROVIDE WITH ANGLE STOPS, STAINLESS STEEL RISERS, P-TRAP AND INSULATION KIT FOR WATER AND WASTE, TRUBRO MODEL #102 EZ LAV GUARD, ASSE 1070 MIXING VALVE.
68	MOP SINK	FIAT MSB2424, 24"x24" MOLDED STONE MOP SINK W/INTEGRAL STAINLESS STEEL STRAINER EXTENSION. CHICAGO FAUCET 897-CP CHROME PLATES W/INTEGRAL STOPS, VACUUM BREAKER, 3/4" HOSE THREAD & WALL BRACE. STAINLESS STEEL BUMPER GUARD, GRID STRAINER. HOSE BRACKET/RUBBER HOSE, MOP HANGER. PROVIDE 50' OF 3/4" RUBBER HOSE WITH INSULATED PISTOL GRIP NOZZLE.
WCO	WALL CLEANOUT	JR SMITH MODEL 442, LINE TPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKETED COVER AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW.
FCO	FLOOR CLEANOUT	JR SMITH 4040, CAST IRON 2 PIECE BODY WITH DOUBLE DRAINAGE FLANGE, ADJUSTABLE NICKEL-BRONZE TOP. GASKET SEAL WITH BRONZE PLUG.
FS-1	FLOOR SINK	SIOUX CHIEF 861-282, 3" DRAIN, FLAPPER STYLE TRAP SEAL. 1/2 GRATE

ELECTRIC WATER HEATER SCHEDULE										
MARK	STORAGE (GAL)	RECOVERY GPH @ 100°F	STORAGE TEMP. (°F)	ELEMENT QTY	ELEMENT WATTS (EACH)	VOLTS/PH	WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
								MANUFACTURER	MODEL	
EW-1	75	18.2	120	2 (NON-SIM)	4500	277/1	110 (DRY)	RHEEM	MELD75-TB	①②

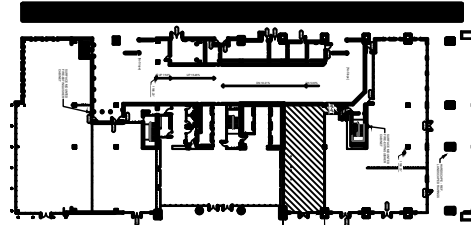
① UL LISTED, GLASS LINED, T&P RELIEF VALVE.
② PROVIDE MANUFACTURER'S THREE YEAR WARRANTY.

EQUIPMENT SCHEDULE				INSTALLED BY GENERAL CONTR	
Item No	Qty	Equipment Category	Manufacturer	Model Number	PROVIDED BY FRANCHISE
1	1	Refrigerated Self-Service Case	Structural Concepts	C053R-UC	POWER @ 18" UC
2	8	Dispenser, Cup	San Jamar	C2410C18	RECESS 6"
3	1	Dispensing Head, (1 scout faucet)	Micro Matic USA	6403-C	
4	1	Employee Lockers (mount +6" AFF)	Salsbury	Tech 64152	WALL @ +6" A.F.F.
5	1	Espresso Machines, Sem Automatic	Nuovo Simonelli	Aurelia II 3-GROUP	H2O FROM #25 POWER @ 18" A.F.F.
6	1	Coffee Grinder	Nuovo Simonelli	Mythos 1 G60	POWER @ 18" A.F.F.
6a	3	Rice Cooker	Zojirushi	THA-803S	POWER @ 18" A.F.F.
7	1	Rail, Syrup	Server Products	82910	
8	1	Refrigerator, Undercounter, Compact	Hoshizaki	CRMR36	POWER @ 18" A.F.F.
9	1	Oven, Microwave	Practika	Chef Express	POWER @ 48" A.F.F.
10	1	Refrigerator, Sandwich/Salad Prep	Hoshizaki	CRMR72-30M	POWER @ 18" A.F.F.
11	1	Filler, Glass	Fisher	54186	COLD H2O / AIR GAP DRAIN TO FS
12	1	Refrigerator, Undercounter, Compact	True Food Service	TUC-27D-2-LP	POWER @ 18" A.F.F.
13	1	Coffee Grinder	Bunn	22100.001	POWER @ 48" A.F.F.
14	2	Coffee Maker, IntelliFresh Brewer	Curtis Co., Wilbur	G4GEMTIF10A1326	H2O FROM #25 POWER @ 48" A.F.F.
15	1	Refrigerator, Undercounter, Compact	Hoshizaki	CRMR48	POWER @ 18" A.F.F.
16	1	Blender, Beverage/Food	Blend Tec - ON COUNTER	STEALTH	COORDINATE INSTALL POWER @ 48" A.F.F.
17	1	Warmer, Food, Electric	Winco	FW-S500	POWER @ 48" A.F.F.
18	3	Blender, Beverage/Food	Blend Tec - IN COUNTER	STEALTH	COORDINATE INSTALL POWER @ 24" A.F.F.
19	1	Drop-In, Ice Station	Delfield	305	GAP DRAIN TO FS
20	1	Topping Station	Server Products	87480	
21	1	FAUCET	Fisher	13242	HOT & COLD H2O
23	1	Sink, Drop-In	Advance Tabco	DI-1-168	HOT & COLD H2O
24	1	Sink, Misc.	ESPRESSO PARTS	PITCHER RINSER	COLD H2O / AIRGAP
25	1	Water Filtration	Antunes	VZN-441H-T5 1" NPT	WATER & POWER @ 84"
26					
27	1	FAUCET	Fisher	53880	HOT & COLD H2O
28	4	Shelf, Wall Mount @ 72" & 84"	Eagle Group/Metal Masters	GWB1848VG	GC INSTALL PROVIDED BACKING
29a	2	Shelf, Wall Mount @ 54"	Eagle Group/Metal Masters	GWB1436VG	GC INSTALL PROVIDED BACKING
30	1	Juice Extractor	CEADO	ES 700	POWER @ 48" A.F.F.
31	3	Nut Milk Extractor (+4" shelf)	Brewista	NutraMilk	POWER @ 48" A.F.F.
32	1	PRE-RINSE FAUCET	Fisher	74063	HOT & COLD H2O
33	2	Heated Dipperwell Assembly	Server Products	87770	POWER @ 18" A.F.F.
34	1	Citrus Squeezer	Nemco Food Equipment	55850	
35	1	Stainless Shelf 55"A.F.F. @PREP TBL	Advance Tabco	WS-12-72	GC INSTALL PROVIDED BACKING
36	1	Shelf, Wall Mount @54" A.F.F. VIF	Advance Tabco	WS-10-48	GC INSTALL PROVIDED BACKING
41	1	Juice Dispenser	Zummo Inc.	714-C	POWER @ 48" A.F.F.
42	1	Juice Dispenser w/Elev SS SHLF	Crathco	E 49	POWER @ 48" A.F.F.
43	1	Ice Cream Cabinet & Freezer	Master Bilt	MSF-52-AN	POWER @ 18" A.F.F.
45	1	Keg Dispenser/Refrigerator	Micro Matic USA	MDD 23S	POWER @ 12" A.F.F. SLEEVE TO FS
46	1	VEGGIE SINK 1 FAUCET COLD	POWER WASH	50PSPW36L3B1	POWER @ 12" A.F.F. COLD H2O / AIRGAP
47					
48	8	Corner, Guard	Advance Tabco	CG-48	COORDINATE INSTALL
51	1	Walk-In w/ shelving (see plan)	Kolpak 70" (id) X 74 (id)	Refrigerator-Self-Cont.	COORDINATE INSTALL
52	2	Walk-In w/ shelving (see plan)	Kolpak 60" (id) X 74 (id)	Freezer - Self-Cont.	COORDINATE INSTALL
54	2	Shelving Unit, Plastic, Louvered	Cambro - or equal	CBU183672-580	COORDINATE INSTALL
55	4	Shelving Unit, Plastic, Louvered	Cambro - or equal	CBU184872-580	COORDINATE INSTALL
56	1	Ice Maker- WATER FROM FILTER #25	Manitowoc Ice	IY-0504A /B-570	H2O FROM #25 POWER @ 48" A.F.F.
57	1	Sink, Square Corner, Three Comp	Eagle Group/Metal Masters	2148-3-18-16/3	COORDINATE INSTALL
60	1	Oven-Steamer, Combination, Electric	UNOX, Inc.	XAVC-0511-EPR	COLD H2O / AIR GAP POWER @ 24" A.F.F.
61	1	VENTLESS HOOD	UNOX, Inc.	XAVHC-HC11	COLD H2O / AIR GAP POWER @ 36" A.F.F.
62	1	KNOCK BOX CHUTE	ESPRESSO PARTS	6" SQ. BOTTOMLESS	IN COUNTER
63	2	Full Size Translucent Food Pan	Cambro	14PP190 - 4"Deep	
64	1	SAFE	W/ESL20XL LOCK	AMSECBWB2020FL	
65	1	Sink, NSF, 1 comp, (air gap to FS)	Advance Tabco	FC-1-1818-24L-X	HOT & COLD H2O AIR GAP DRAIN TO FS
66	2	Hand Sink w/ Soap & Paper Towels	Advance Tabco	7-PS-84	HOT & COLD H2O
67	1	UC Ice Bin SECURE TO SHELF	Delfield	240	COORDINATE INSTALL AIR GAP DRAIN TO FS
68	1	Mop Sink	Advance Tabco	X	
69	1	Mop Holder	Advance Tabco	K-242-X	
70	1	UTILITY FAUCET	Fisher	97659	HOT & COLD H2O

RECIRCULATION PUMP										
MARK	GPM	HEAD (FT H2O)	CONNECTION SIZE (INCHES)	HP	RPM	VOLTS/PH	WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
								MANUFACTURER	MODEL	
CP-1	10	7	3/4"	1/25	3250	120/1	10	TACO	007	①②

① UL LISTED, NSF COMPLIANT
② TACO 00 AQUASTAT TIMER

DRAWINGS AND SPECIFICATIONS HEREIN ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF CAFE DESIGN & ARCHITECTURE, LLC WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, THEY ARE NOT TO BE USED BY THE OWNER, THEIR EMPLOYEES, AGENTS OR ANYONE ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY WRITTEN PERMISSION AND WITH APPROPRIATE COMPENSATION TO CAFE DESIGN & ARCHITECTURE.



GROUND FLOOR
PRINCIPAL ARCHITECT



DATES

HEALTH & BLDG. RESUBMITAL 09.15.19
DESIGN ENGINEERING 08.15.19
FOR FRANCHISE REVIEW 07.10.19



CLIENT
DRINK / QWENCH
Store #7235

Suite 107
Tempe Az

PROJECT #: 7235
TITLE

PLUMBING
SCHEDULES

SHEET NO.

P4.1

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED FOR THIS PROJECT.

- A. GENERAL**
 - JUNCTION BOX (4" SQUARE MINIMUM)
 - INDICATES HOMERUN.
 - ORIGIN CONDUCTORS.
 - LONG DASH INDICATES NEUTRAL CONDUCTOR. SHORT DASH INDICATES PHASE CONDUCTORS. CODE SIZED EQUIPMENT GROUND NOT INDICATED BUT REQUIRED.
 - ISOLATED GROUNDING CONDUCTOR. GREEN, INSULATED WITH YELLOW STRIPE.
 - SURFACE PANELBOARD
 - FLUSH PANELBOARD
 - TRANSFORMER. (KVA SIZE AS NOTED). GROUNDING SYSTEM TO BUILDING STEEL (IF APPLICABLE).
 - CONDUIT SUB-UP ABOVE CEILING
 - CONDUIT SUB-DOWN TO FLOOR BELOW
 - CONDUIT IN UNDERGROUND/SLAB
 - CONDUIT SUB-UP WITH CAP
 - CONDUIT SEAL-OFF
 - FLEXIBLE CONDUIT. PROVIDE LIGHT TIGHT FLEX IN WET OR EXTERIOR LOCATIONS AND AT CONNECTIONS TO VIBRATING EQUIPMENT AND/OR TRANSFORMERS.
 - CONDUIT CONCEALED IN WALL OR ABOVE CEILING.
- B. POWER**
 - 20A SPEC GRADE SINGLE RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED
 - 20A SPEC GRADE DUPLEX RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED
 - 20A SPEC GRADE FOURPLEX RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED
 - 20A SPEC GRADE DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER. VERIFY EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.
 - 20A SPEC GRADE FOURPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER. VERIFY EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.
 - SPECIAL OUTLET AS NOTED ON DRAWINGS - VERIFY NEMA RATING BEFORE INSTALLATION
 - SPECIAL OUTLET AS NOTED ON DRAWINGS
 - C = MOUNTED IN CEILING
 - RF = REFRIGERATOR
 - SW = SWITCH DISPOSAL
 - PROV = PROVIDE SWITCH ABOVE COUNTER.
 - MW = MICROWAVE
 - UR = UNDERCOUNTER REFRIGERATOR
 - PD = PEDIATRIC SAFE
 - VM = VENDING MACHINE
 - ISOLATED GROUNDING OUTLET AT +15" TO BOTTOM OR AS NOTED. "LEVITON" #562-IG (ORANGE) RECEPTACLE WITH ISOLATED GROUND.
 - DUAL COMPARTMENT POWER/TELE DATA POLE
 - FLUSH FLOOR POWER OUTLET WITH FLUSH-IN-USE COVERS - WITH 20A SPEC GRADE RECEPTABLE DUPLEX OR FOURPLEX, HUBBELL, THOMAS & BETTS, CARLON OR EQUAL. RATED FOR FINAL CONNECTION TO SYSTEM FURNITURE.
 - 20A SPEC GRADE GFD DUPLEX RECEPTACLE AT +15" TO BOTTOM OR AS NOTED.
 - 20A SPEC GRADE GFO DUPLEX RECEPTACLE AT +6" ABOVE COUNTER TO BOTTOM OR AS NOTED.
 - DROP CORD POWER OUTLET - WITH 20A SPEC GRADE RECEPTABLES DUPLEX OR FOURPLEX, HUBBELL, THOMAS & BETTS, CARLON OR EQUAL.
 - "J" BOX FLUSH MOUNTED IN WALL FOR SYSTEMS FURNITURE POWER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTION TO SYSTEM FURNITURE.
 - WIRE MOLD LENGTH AND TYPE AS NOTED ON DRAWINGS. MOUNT AS NOTED ON THE DRAWINGS.
 - FLUSH FLOOR COMBINATION TELEPHONE/DATA OUTLET - PROVIDE 1" MIN CONDUIT TO ABOVE ACCESSIBLE CEILING. HUBBELL, THOMAS & BETTS, CARLON OR EQUAL. RATED FOR CORD USE.
 - DATA OUTLET AT +15" A.F.F. TO BOTTOM OF WALL FIXTURE OR AS NOTED. PROVIDE 3/4" CONDUIT STUBBED TO +4" ABOVE FINISHED CEILING.
 - TELEPHONE OUTLET AT +15" A.F.F. TO BOTTOM OF WALL FIXTURES OR AS NOTED. PROVIDE 3/4" CONDUIT STUBBED TO +4" ABOVE FINISHED CEILING OR AS NOTED.
 - X = PAY PHONE
 - W = WALL PHONE OUTLET MOUNTED AT +44" A.F.F.
 - COMBINATION TELEPHONE/DATA OUTLET AT +15" A.F.F. TO BOTTOM OF WALL FIXTURES OR AS NOTED. PROVIDE 3/4" CONDUIT STUBBED TO +4" ABOVE FINISHED CEILING.
 - DIGITAL CABLE TELEVISION OUTLET
 - TELEVISION OUTLET WITH DEVICES
 - "J" BOX FLUSH MOUNTED IN WALL FOR SYSTEMS FURNITURE TELE/DATA WITH 1-1/4" EMPTY CONDUIT STUBBED ABOVE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTION TO SYSTEM FURNITURE.
 - TELEPHONE TERMINAL BOARD "TMB" 3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 COPPER GROUND & DEDICATED FOURPLEX CONVENIENCE OUTLET. FURNISH IN ACCORDANCE WITH TELEPHONE COMPANY'S REQUIREMENTS. SIZE AS NOTED ON DRAWINGS. PLYWOOD SHALL BE TYPE "CDX".
- D. LIGHTING**
 - STANDARD SWITCH AND COVER PLATE WITH LOCKING DEVICE (BRADY NO. 2AF98 OR EQUAL)
 - SINGLE POLE SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - TWO POLE SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - THREE WAY SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - FOUR WAY SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - SINGLE POLE SWITCH WITH PILOT LIGHT AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - 2000W SLIDE CONTROL DIMMER AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - SWITCH KEY OPERATED MTD AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - LOW VOLTAGE SLIDE CONTROL DIMMER WITH PRESET AT +44". CONTRACTOR SHALL SUPPLY SPECIFIC (ELECTRONIC AND/OR MAGNETIC) TO SUIT LOADS.
 - MOUNT WALL MOUNTED OCCUPANCY SENSOR. LUTRON-DUAL TECHNOLOGY OR EQUAL IN RESTROOMS. LUTRON-ULTRASONIC. PROGRAM: MANUAL ON/AUTO OFF UNLESS NOTED OTHERWISE.
 - SINGLE POLE UP-OFF-DOWN SWITCH FOR CONTROL OF PROJECTION SCREEN. MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
 - LOW VOLTAGE PUSH BUTTON CONTROL STATION AS NOTED. VERIFY MOUNTING HEIGHT.
 - ROOF MOUNTED PHOTOCELL (AM NORTH) INTERMATIC #EK41365 OR EQUAL.
 - ASTRONOMIC ELECTRONIC 4 POLE LIGHTING TIMESWITCH, INTERMATIC #E21845CR OR EQUAL.
 - SWITCHBOARD
 - CEILING MOUNTED OCCUPANCY SENSOR 360°. LUTRON-DUAL TECHNOLOGY OR EQUAL IN RESTROOMS. LUTRON-ULTRASONIC. IN WAREHOUSE: LUTRON-HIGHBAY. (WR) WIDE ANGLE (LR) LONG RANGE.
 - WALL/CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SHALL BE PROGRAMMED AS VACANCY SENSOR. MANUAL ON/AUTO OFF.
 - OCCUPANCY SENSOR - POWER PACK OR SLAVE PACK.
 - FLUORESCENT STRIP LIGHTING FIXTURE - AS NOTED ON DRAWINGS.
 - FLUORESCENT LIGHTING FIXTURE - AS NOTED ON DRAWINGS SURFACE MOUNTED.
 - RECESSED GRID W/FLEXIBLE CONNECTION.
 - INDICATES NIGHTLIGHT (NL) AND/OR EMERGENCY FIXTURE WITH 1400 LUMEN MINIMUM (UNSWITCHED) - AS NOTED ON DRAWING.
 - WALL MOUNTED LIGHTING FIXTURE - AS NOTED ON DRAWINGS.
 - CEILING MOUNTED LIGHTING FIXTURE - AS NOTED ON DRAWINGS.
 - H.I.D. HIGH/LOW BAY FIXTURE
 - WALL WASH LIGHTING FIXTURE. AIM AS DIRECTED BY ARCHITECT.
 - TRACK LIGHTING SYSTEM WITH TRACK FIXTURE HEADS AS INDICATED ON PLANS. VERIFY TYPE LINE OR LOW VOLTAGE.
 - POLE MOUNTED AREA LIGHT (ARM MOUNTED) VERIFY HEIGHT SEE POLE DETAIL.
 - POLE MOUNTED AREA LIGHT (POST TOP) VERIFY HEIGHT SEE POLE DETAIL.
 - WALL PACK.
 - SINGLE FACE EXIT SIGN, SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS (CEILING OR WALL).
 - COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.
- D. LIGHTING CONTINUED**
 - DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS (CEILING OR WALL).
 - DUAL HEAD EMERGENCY BATTERY PACK. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
- E. MECHANICAL**
 - CONTRACTOR - FURNISHED AND INSTALL BY OTHERS
 - CONTRACTOR - FURNISHED/INSTALLED BY ELECTRICAL CONTRACTOR SIZE AS NOTED
 - MOTOR STARTER/CONTROLLER - FURNISHED WITH MOTOR.
 - MOTOR STARTER/CONTROLLER - FURNISHED/INSTALLED BY ELECTRICAL CONTRACTOR.
 - MOTOR - SIZE AS INDICATED ON DRAWINGS.
 - DISCONNECT SWITCH - SIZE AND FUSES AS PER MANUFACTURER'S RECOMMENDATIONS (WEATHERPROOF WHERE OUTSIDE). N.F. INDICATES NON-FUSED.
 - COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER - 30/3P WITH MIN. SIZE 1 DISCONNECT SWITCH. SIZE AND FUSES AS PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED.
 - HORSEPOWER RATED MANUAL MOTOR STARTER WITH THERMAL OVERLOAD(S). OVERLOAD HEATERS TO BE SIZED PER HORSEPOWER AND MANUFACTURER'S REQUIREMENTS.
- F. FIRE ALARM**
 - FIRE ALARM PULL STATION AT +48".
 - FIRE ALARM STROBE: +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
 - FIRE ALARM HORN/STROBE: +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
 - FIRE ALARM MAGNETIC DOOR HOLDER
 - FIRE ALARM BELL
 - FIRE ALARM ANNUNCIATOR PANEL
 - FIRE ALARM CONTROL PANEL
 - FIRE ALARM HEAT DETECTOR.
 - FIRE ALARM SMOKE DETECTOR.
 - FIRE ALARM DUCT SMOKE DETECTOR.
 - CARBON MONOXIDE DETECTOR.
 - FIRE ALARM TAMPER SWITCH.
 - FIRE ALARM FLOW SWITCH.
 - SPEAKER.
- G. ONE LINE DIAGRAM**
 - (M) METER, (S) SOCKET, (B) BLANK
 - (M) METER, (S) SOCKET, (B) BLANK, WITH CURRENT TRANSFORMERS.
 - BREAKER AS INDICATED.
 - FUSED SWITCH.
 - BREAKER WITH SHUNT TRIP (SIZE AS INDICATED)
 - PULLOUT FUSE
- H. SECURITY**
 - LOW VOLTAGE CARD READER
 - LOW VOLTAGE KEYPAD
 - SURVEILLANCE CAMERA
- I. ABBREVIATIONS**
 - A AMPERE
 - AVC AVAILABLE INTERRUPTING CURRENT
 - AL ALUMINUM
 - AVF AVAILABLE FAULT CURRENT
 - AFD ARC FAULT CIRCUIT INTERRUPTER
 - AFS ABOVE FINISHED FLOOR
 - AFH AIR HANDLER UNIT
 - AFS ABOVE FINISHED GRADE
 - APC AIR CONDITION PUBLIC SERVICE - (UTILITY CO.)
 - C CONDUIT
 - CCI CORRECTED COLOR TEMP.
 - CRI COLOR RENDERING INDEX
 - CO COPPER
 - CD DEDICATED
 - DP DUST - IGNITION PROOF
 - E EXISTING
 - EC EMPTY CONDUIT
 - EDF ELECTRIC DRINKING FOUNTAIN
 - EF EXHAUST FAN
 - EG EQUIPMENT GROUND
 - EMW EMERGENCY LIGHT, BYPASS LOCAL SWITCHING AND PROVIDED BATTERY BACK.
 - GFCO GROUND FAULT CIRCUIT INTERRUPTER
 - GFP GROUND FAULT PROTECTION
 - GND GROUND/BOND CONDUCTOR
 - GW GAS WATER HEATER
 - IAW IN ACCORDANCE WITH
 - IG ISOLATED GROUND
 - MCB MAIN CIRCUIT BREAKER
 - MCC MOTOR CONTROL CENTER
 - MLO MAIN LUG ONLY
 - N NEW ITEM
 - NR NEW LOCATION OF RELOCATED EXISTING ITEM
 - NL NIGHT LIGHT, BYPASS LOCAL SWITCHING.
 - PNL PANELBOARD
 - R EXISTING TO BE RELOCATED
 - S SERVICE ENTRANCE SECTION
 - SFP SALT RIVER PROJECT - (UTILITY CO.)
 - SWB SWITCHBOARD
 - TYP TYPUSON ELECTRONIC POWER
 - TEP 3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 CU. SOLID GROUND.
 - TTC TELEPHONE TERMINAL CABINET (SIZE INDICATED ON DRAWINGS)
 - UFER CONCRETE ENCASED EQUIPMENT
 - UG UNDERGROUND
 - UNO UNLESS NOTED OTHERWISE.
 - VA VOLT AMPERES
 - W WATT
 - WR WIRE GUARD
 - WH WEATHER HEATER
 - WP WEATHERPROOF (RAIN TIGHT)
 - WR WEATHER RESISTANT
 - NEMA 3R OR NEMA 4 IN-USE.
 - WR WEATHER RESISTANT
 - X EXISTING TO BE REMOVED
 - XP EXPLOSION PROOF

ELECTRICAL SPECIFICATIONS

SOME SPECIFICATIONS MAY NOT BE USED FOR THIS PROJECT.

- 1.0 INTENT**
 - 1.1 DESIGN AND INSTALL A COMPLETE OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
 - 1.2 ALL DRAWINGS SHALL BE IN ACCORDANCE WITH THE REQUIRED INSTALLATION IS NOT LIMITED TO WHAT IS SHOWN. ALL APPLICABLE REQUIREMENTS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM MUST BE INCLUDED IN THE CONTRACTORS BID AND WORK.
- 2.0 GENERAL**
 - 2.1 THE CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID OR WORK. THE CONTRACTOR SHALL BE MADE FOR EXISTING CONDITIONS OR THE CONTRACTORS FAILURE TO ACCOMMODATE EXISTING CONDITIONS ON HIS OWNERS BEHALF.
 - 2.2 IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CLARIFICATION OF ANY APPARENT CONFLICT OR INCONSISTENCY IN THE DRAWINGS, SPECIFICATION OR CONDITIONS PRIOR TO HIS BID AND IN WRITING WITH THE ENGINEER. OTHERWISE THE CONTRACTOR ACCEPTS RESPONSIBILITY TO CORRECT (AT HIS COST) ANY SUCH ITEMS TO MEET THE INTENT AS INTERPRETED BY THE ENGINEER.
 - 2.3 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT ADOPTED EDITIONS OF THE NFPA NATIONAL ELECTRIC CODE, IFC APPLICABLE CITY AND STATE CODES AND ORDINANCES IN EFFECT AT THE TIME OF BIDDING. ALL CODES AND REGULATIONS (INCLUDING NFPA 1997, INTERNATIONAL ENERGY CONSERVATION CODE (IECC)/TITLE 24/ASHRAE 90.1 AND ALL APPLICABLE CITY AND STATE CODES AND REGULATIONS AND REGULATIONS ARE REQUIREMENTS AND ARE INCORPORATED IN THIS SPECIFICATION FOR THE CONTRACTOR SHALL COORDINATE AND PROVIDE INFORMATION AS REQUIRED TO ALL SERVING UTILITIES AT THE TIME WORK BEGINS. IMMEDIATE COORDINATION WILL BE REQUIRED FOR MOST PROJECTS. FIELD COORDINATION WITH ALL PROVIDERS WITH UTILITY CO. PRIOR TO TRENCHING.
 - 2.4 REFER TO ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL AND/OR EQUIPMENT SUPPLIERS DRAWINGS AND SPECIFICATIONS FOR EXISTING CONDITIONS, LOADS AND ADDITIONAL REQUIREMENTS. REPRESENTATIONS OF THE WORK SPECIFIC TO THE OTHER DISCIPLINES IS SHOWN ON THE ELECTRICAL DRAWINGS FOR CLARITY ONLY. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL EQUIPMENT HE SUPPLIES. ALL EQUIPMENT SHALL BE INSTALLED STRICTLY IN COMPLIANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND INTENTIONS AS INTERPRETED BY THE ENGINEER.
 - 2.5 ANY VARIANCE OR DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING. INFORMAL APPROVALS WILL ONLY BE PROVIDED WHEN THE CONTRACTOR HAS OBTAINED ALL NECESSARY PERMITS, VARIANCES AND APPROVALS, ETC. (AT HIS COST) WHICH MAY BE REQUIRED FOR COMPLETION OF THE PROJECT.
 - 2.6 PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES AND WIRING DEVICES; TO INCLUDE MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT/OWNER. ALL CONDUITS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT.
 - 2.7 THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AND SUPPORT FOR PROGRESS AND FINAL INSPECTIONS. THIS INCLUDES COMPLETE ACCESS TO ALL EQUIPMENT. ADDITIONALLY A COMPLETE SET OF SPARE FUSES FOR ALL FUSES USED AND A SIX SUPPLY OF ALL LIGHT BULBS PROVIDED IN FIXTURES (TO A MAXIMUM OF 15 FOR EACH SWITCH) SHALL BE PROVIDED TO THE OWNER AT FINAL INSPECTION. RECONSTRUCTION (TO INCLUDE TENANT IMPROVEMENTS). ALL RECONSTRUCTION OF EXISTING FACILITIES AND EQUIPMENT SHALL REQUIRE COMPLETE RENOVATION (MAKE GOOD AS NEW) FOR ALL EXISTING EQUIPMENT UPON WHICH IS OR BEING RECONSTRUCTED WHICH IS AFFECTED BY THE WORK PERFORMED. THIS WILL INCLUDE THE FOLLOWING REQUIREMENTS:
 - 2.1.1 VERIFICATION OF EXISTING SCS COMPLIANCE WITH NEC "GROUNDING" ARTICLES.
 - 2.1.2 VERIFICATION OF EXISTING SCS AND AMPACITY OF EXISTING FEEDERS AND BRANCH CIRCUITS.
 - 2.1.3 EXISTING LIGHT FIXTURES TO BE REUSED MUST BE CLEANED, RE-LAMPED, AND RESTORED TO "LIKE NEW" CONDITION.
 - 2.1.4 EXISTING PANEL BOARDS, SWITCH BOARDS, AND TRANSFORMERS WHICH ARE INCLUDED IN THE PROJECT WORK SHALL HAVE PREVENTATIVE MAINTENANCE PERFORMED TO INCLUDE RE-TIGHTENING OF ALL LUGS, CLEANING AND INSPECTION OF ALL ELECTRICAL COMPONENTS AND PARTS. ALL EXISTING EMERGENCY DEVICES AND EXIT SIGNS REPAIR OR REPLACE AS REQUIRED.
 - 2.8 IN THE EVENT THAT INSPECTION REVEALS DISCREPANCIES AND/OR NONCOMPLIANCE WITH THE OWNER AND CITY/STATE REQUIREMENTS, THE CONTRACTOR SHALL BE NOTIFIED IN WRITING, AND EQUIPMENT BROUGHT INTO COMPLIANCE.
- 3.0 MATERIALS AND METHODS**
 - 3.1 THE USE OF **EMT** IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE "ELECTRICAL METALLIC TUBING" BUT SHALL NOT BE USED WHERE IT IS SUBJECT TO SEVERE PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION TYPE. MINIMUM TRADE CONDUIT SIZE IS 1/2" AND 3/4" FOR HOME RUNS.
 - 3.2 CONDUCTORS SHALL BE 60% COPPER OR 2 CONDUCTIVITY. MINIMUM LINE VOLTAGE WIRE SIZE IS #12 A.W.G. #8 AND SMALLER SHALL HAVE THIN/THRU INSULATION. #4 AND LARGER SHALL HAVE 90% THIN/THRU INSULATION. ALL CONDUCTORS SHALL HAVE 90 RATED INSULATION. ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS (#12) OVER INSULATING MATERIAL SHALL BE #10S MINIMUM. ALL 277V, 20A BRANCH CIRCUIT CONDUCTORS (#12) OVER 200' IN LENGTH TO BE #10S MINIMUM.
 - 3.3 ALL BRANCH CIRCUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. ALL BRANCH CIRCUITS ARE USED WITH EACH PHASE CONDUCTOR OR SYSTEMS FURNITURE IS INDICATED, THE MINIMUM NEUTRAL CONDUCTOR SIZE SHALL BE #10 A.W.G. STRANDED COPPER.
 - 3.4 ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. (MINIMUM 20 AMPS RATED RECEPTABLES AND SWITCHES). HUBBELL, PASS & SEYMOUR, BRYANT, OR LEVITON ARE ACCEPTABLE. ALL SPECIAL RECEPTABLES AND GROUND FAULT PROTECTION DEVICES MUST BE IDENTIFIED MARKED WITH ENGRAVED COVER PLATES. INDICATE USE AND CIRCUIT NUMBER.
 - 3.5 COVER PLATES AND DEVICES SHALL BE NONPorous PLASTIC (WHITE OR COLOR SELECTED BY ARCHITECT) IN OFFICE/COMMERCE/LIVING AREAS, AND GALVANIZED STEEL IN WAREHOUSE/INDUSTRIAL/MANUFACTURING AREAS OR AREAS SUBJECT TO CORROSION.
 - 3.6 ALL CONDUCTORS TO BE CONCEALED EXCEPT TO SURFACE MOUNTED PANELS AND AT EXTERIOR EXPOSED STRUCTURE AREAS. CONDUITS WILL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING SURFACES.
 - 3.7 FLEXIBLE METAL CONDUIT (SEAL TITE FOR EXTERIOR APPLICATIONS) SHALL BE USED FOR CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION (E.G. MOTORS) WITH A MAX. OF 6".
 - 3.8 THE USE OF **MC CABLE** IS ACCEPTABLE (UPON OWNER NOTIFICATION AND APPROVAL) AND MAY BE USED IN ACCORDANCE WITH NEC ARTICLE "METAL-CLOAD CABLE TYPE MC" BUT LIMITED TO USE FOR CONTROL BRANCH CIRCUITS. ADDITIONALLY MC CABLE MAY NOT BE USED FOR HOME RUNS OR OUTDOORS.
 - 3.9 NON-METALLIC CONDUIT (PVC OR HDPE) MAY BE USED ONLY IN OR UNDER SLABS & IN CONCRETE OR MASONRY WALLS. MIN. 2" COVER REQUIRED FOR UNDERGROUND USE.
 - 3.10 PIPES SHALL BE RUSSIAN, LITTLEFUSE, OR GOLD SHAMMUT.
 - 3.11 CONDUCTORS WILL BE SOLID AND/OR STRANDED WITH INSULATION CONTINUOUSLY COLOR CODED UP TO AND INCLUDING SIZE 4 A.W.G. GROUNDING SUPPORTS SHALL BE USED TO SUPPORT CONDUCTORS SHALL BE UL LABELED ROPE STRAND.
 - 3.12 CONNECTIONS TO OR FROM CONDUITS SHALL BE EXOTICHEM (COP WELD OR THOMAS AND BETTS FUSEWELD) FOR GROUNDING/BONDING CONDUCTORS.
 - 3.13 ALL CONDUITS SHALL BE CONTINUOUS. MECHANICAL GROUP SLICES OR CONNECTIONS ARE EXCEPTIONS AND REQUIRE SPECIFIC APPROVAL IN WRITING BY THE ARCHITECT.
 - 3.14 ALL CONDUIT SUPPORT SYSTEMS SHALL BE INSTALLED ON THE BUILDING STRUCTURE. STANDARDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - 8.4.1 SUPPORT FIXTURES PER 80 WITH TWO LOOSE SIZE #8 WIRE TO STRUCTURE AT CORNERS AND/OR FIXTURE SHALL BE FASTENED BY SCREWS INTO T-BAR RUNNERS IN ACCORDANCE WITH LOCAL AUTHORITY HAVING JURISDICTION.
 - 3.15 ACCEPTABLE MANUFACTURERS FOR SWITCHGEAR, DISTRIBUTION GEAR AND RELATED COMPONENTS ARE: SQUARE D, AEGIS TRANSFORMERS, GENERAL ELECTRIC, SIMONS, HPS, AND CUTLER-HAMMER.
 - 3.16 CONDUCTORS SHALL BE COLOR CODED FOR BRANCH CIRCUITS AND PHASE LEGS OF FEEDERS TO PANEL BOARDS, SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC AND LOCAL MUNICIPAL REQUIREMENTS. SPECIFIC COLOR CODING SHALL BE:
 - 120V-1-2-WIRE CIRCUIT: GROUNDING NEUTRAL-WHITE, UNGROUNDED LEW-BLACK, 200V/120V-1-2-WIRE: PHASE 1-BLUE, GROUNDING NEUTRAL-WHITE, PHASE 2-BLACK, PHASE 3-RED, PHASE 4-BLUE
 - 240V/208V-1-2-WIRE: PHASE 1-BLUE, PHASE 2-BLACK, PHASE 3-RED, PHASE 4-BLUE
 - 240V/208V-3-WIRE: PHASE 1-BLUE, PHASE 2-ORANGE, PHASE 3-BROWN, PHASE 4-BLUE
 - 240V/208V-3-WIRE: PHASE 1-BLUE, PHASE 2-ORANGE, PHASE 3-BROWN, PHASE 4-BLUE
 - 240V/208V-3-WIRE: PHASE 1-BLUE, PHASE 2-ORANGE, PHASE 3-BROWN, PHASE 4-BLUE
 - 240V/208V-3-WIRE: PHASE 1-BLUE, PHASE 2-ORANGE, PHASE 3-BROWN, PHASE 4-BLUE
 - 3.17 ALL INSTALLATIONS WITH PLENUM RATED CEILING SPACE SHALL BE IN ACCORDANCE WITH NEC ARTICLE "WIRING METHODS" WITH REGARDS TO SMOKE DEVELOPMENT AND FLAME SPREAD.
 - 3.18 ALL UNDERGROUND CABLE, PIPE AND CONDUITS SHALL BE DETECTABLE (METALLIC) OR HAVE A DETECTABLE UNDERGROUND LOCATION DEVICE INSTALLED WITH THE RECOMMENDED DETECTABLE UNDERGROUND LOCATION DEVICE IS A #8 OR LARGER COPPER TRACKER WIRE SECURELY ATTACHED TO THE TOP OF ANY NON-METALLIC CABLE, PIPE OR CONDUIT AT 6'-0" O/C AND SHALL HAVE A MINIMUM OF 12" OF TRACKER WIRE ACCESSIBLE AT ALL ABOVE GRADE TERMINATIONS.
 - 3.19 ALL HORIZONTAL UNDERGROUND CONDUIT RUNS (INCLUDING UNDER CONCRETE SLABS) SHALL BE A MINIMUM OF 24" BELOW GRADE.
 - 3.20 ALL MATERIALS & DEVICES USED EXTERIOR OF THE BUILDING SHALL BE LISTED UL FOR WATERPROOF APPLICATIONS.
- 4.0 SUBMITTALS**
 - 4.1 PROVIDE 2 COPIES OF SHOP DRAWINGS AND SAMPLES FOR ALL EQUIPMENT PRIOR TO ORDERING IN A TIMELY MANNER. SUBMITTALS SHALL INCLUDE LIGHT FIXTURES (INCLUDING LIGHT POLES), LIGHTING CONTROLS, SWITCHBOARDS, PANELBOARDS, BREAKERS, STARTERS, HVAC ELECTRICAL EQUIPMENT AND TRANSFORMERS.
 - 4.2 SHOP DRAWINGS SHALL INCLUDE LAYOUT DIMENSIONS AND IDENTIFICATION OF SPECIFIC EQUIPMENT FOR INSTALLATION. MINIMUM NET CLEARANCES SHALL BE INDICATED.
 - 4.3 THE CONTRACTOR SHALL INCLUDE COMPARISON DATA AND SAMPLES FOR THE SUBSTITUTES AND SPECIFIED ITEMS WHEN SUBSTITUTIONS ARE PROPOSED. THE CONTRACTOR REMAINS RESPONSIBLE TO PROVIDE THE ORIGINALLY SPECIFIED INSTALLATION IN ACCORDANCE WITH THE ORIGINAL DELIVERY DATE (AT HIS COST) WHEN SUBSTITUTIONS ARE PROPOSED.
 - 4.4 THE CONTRACTOR SHALL PROVIDE PROOF OF PERFORMANCE BOND WITH HIS INITIAL SUBMITTALS (E.G. SHOP DRAWINGS) TO INCLUDE WARRANTY FOR THE WARRANTY PERIOD (2 YEARS).
 - 4.5 THE CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE "AS-BUILT" DRAWING TO THE OWNER AND ENGINEER WITHIN 2 WEEKS OF OWNER ACCEPTANCE. PROVIDE 4 SETS OF BLUEPRINTS OR REPRODUCIBLES. FAILURE TO COMPLY WILL RESULT IN WITHHOLDING PAYMENTS DUE AND ASSESSMENT OF CHARGES (AGAINST THE CONTRACTOR) FOR AS-BUILT DEVELOPMENT BY THE ENGINEER AT THE CURRENT HOURLY RATE. PROVIDE A LETTER TO THE OWNER AND ENGINEER CERTIFYING ALL COMPONENTS AND TERMINATIONS ARE PROPERLY FORGED. THIS CERTIFICATION SHALL BE EXECUTED BY A LICENSED CONTRACTOR, AND WRITTEN CERTIFICATION PROVIDED ON COMPANY LETTERHEAD.
 - 4.6 PROVIDE 2 COPIES OF ALL MANUFACTURER/SUPPLIER WARRANTIES AND GUARANTEES TO THE OWNER WITHIN 2 WEEKS OF FINAL ACCEPTANCE BY THE OWNER.
- 5.0 WARRANTY**
 - 5.1 THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND/OR WORKMANSHIP FURNISHED BY HIM UNDER THIS CONTRACT FOR A PERIOD OF 24 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS DEVELOPING DURING THE WARRANTY PERIOD TRANSPORTATION AND INSTALLATION OF WORKMANSHIP SHALL BE COVERED AT THE CONTRACTORS EXPENSE.
 - 5.2 THE OWNER RETAINS THE RIGHT TO REQUIRE REMOVAL AND INSTALLATION (AT ANY TIME) OF ANY MATERIAL OR EQUIPMENT NOT IN COMPLIANCE WITH THE PROVISIONS AND STANDARDS OF THESE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK PERFORMED IN THIS REGARD.
 - 5.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY WARRANTIES AND GUARANTEES TO THE OWNER. THIS INCLUDES COMPLETION OF ALL DOCUMENTATION FOR THE MANUFACTURER/SUPPLIER.
- 6.0 SERVICE - EXISTING**
 - 6.1 PANELBOARDS (EXISTING): ADD CIRCUIT BREAKERS (FULL SIZED BREAKERS) AS REQUIRED FOR GROUNDING AND PROTECTIVE DEVICES. ALL CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. RANDOM AND PICO-BACK BREAKERS ARE NOT PERMITTED. ALL LUGS OR CONNECTIONS SHALL BE IN ACCORDANCE WITH NEMA 3R OR 4R, 100 AMPS AND 75% RATED OF GREATER THAN 100AMPS MINIMUM.
 - 6.2 PANELBOARDS (NEW): SHALL BE INSTALLED AS SHOWN ON DRAWINGS WITH PLATE COPPER BUSBARS. PROVIDE NEMA ENCLOSEURES AS REQUIRED BY CODE FOR OVERCURRENT PROTECTION. BACK BUSBARS SHALL BE FULLY INSULATED. ALL LUGS OR CONNECTORS TO BE 60% FOR PANELS LESS THAN OR EQUAL TO 100 AMP AND 75% RATED OF GREATER THAN 100AMP MINIMUM. PANELBOARDS CANNOT BE EQUIPPED WITH PIANO HINGES WITH DOOR IN DOOR CONSTRUCTION.
 - 6.3 ALL CIRCUIT BREAKERS SHALL BE SWITCH RATED AND AMBIENT COMPENSATED FOR ALL CIRCUITS. SWITCHED NEUTRALS ON ALL CIRCUIT BREAKERS FEEDING CLASS 1 AND CLASS 2 AREAS WITH NEUTRALS. GFCI ON CIRCUITS WITH NEUTRALS TO BE ABOVE CLASSIFIED AREAS. ALL LIGHTING PANELS/CIRCUIT BREAKERS SHALL BE RATED FOR EQUIPMENT (PANELS, DISCONNECT SWITCHES, STARTERS, ETC.) WILL BE MARKED WITH BLACK OR RED ENGRAVED STOCK TAGS EMBOSSED WITH 1/4" HIGH LETTERS DESCRIBING EACH ITEM. CONDUCTORS SHALL BE IDENTIFIED WITH LABELS BEARING THE PANEL AND CIRCUIT NUMBER WHICH FEEDS EACH CONDUCTOR (PER NEC 210.4, 300.3).
 - 6.4 ALL PANELBOARDS WILL HAVE TYPED DIRECTORY CARDS IDENTIFYING ALL CIRCUITS AND TRANSFORMERS.
 - 6.5 ACCEPTABLE MANUFACTURERS FOR PANELBOARDS, SWITCHBOARDS, AND TRANSFORMERS SHALL BE:
 - 6.5.1 SQUARE D, AEGIS TRANSFORMERS, GENERAL ELECTRIC, SIMONS, HPS, AND CUTLER-HAMMER.
 - 6.5.2 15 KVA AND ABOVE SHALL BE 150% TEMPERATURE RISE ABOVE 40% AMBIENT. ALL INSULATING MATERIAL SHALL BE IN ACCORDANCE WITH NEMA 3R OR 4R STANDARDS FOR A 220°C UL COMPONENT RECOGNIZED INSULATION SYSTEM. SINGLE PHASE TRANSFORMERS SHALL BE RATED FOR 50 KVA, AND THREE PHASE TRANSFORMERS THROUGH 45 KVA SHALL BE DESIGNED SO THEY CAN BE EITHER FLOOR OR WALL MOUNTED. THE TRANSFORMER SHALL BE LISTED BY UNDERWRITERS LABORATORY FOR SPECIFIED TEMPERATURE RISE. TRANSFORMERS 75 KVA AND ABOVE SHALL BE DESIGNED FOR FLOOR MOUNTING.
 - 6.5.3 ALL PANELS/TRANSFORMERS/DISCONNECTS WITH "MISBUILT" - ELECTRICAL EQUIPMENT PERSONNEL ONLY TO OPERATE ON OPEN.
 - 6.6 DISCONNECT SWITCHES SHALL BE COMMERCIAL-TYPE, QUICK-MAKE, QUICK-BREAK, HORSEPOWER RATED, NEMA 1 R000R, NEMA 3R GASKETED, (4) NO. 12, OR NEMA 3R APPLICATIONS WITH FEEDER PER DRAWING.
 - 6.7 MANUAL MOTOR STARTERS WITH THERMAL OVERLOADS WILL BE PROVIDED FOR FRACTIONAL HORSEPOWER MOTORS 1/2 HP OR GREATER, SQUARE D CLASS 2510, 2511, 2512, AMBIENT COMPENSATED AS REQUIRED.
 - 6.8 MAGNETIC MOTOR STARTERS WITH THERMAL OVERLOADS, (2) AUXILIARY CONTACT SWITCHES, INTERNAL LINE VOLTAGE TO 24 VOLT TRIPPER, AND 1/2" MIN. STRUCTURE FOR PROPER PRIMARY/SECONDARY PROTECTION, AMBIENT COMPENSATED, RED RUNNING LIGHTS, HAND-OFF-AUTO, AND UNDERVOLTAGE PROTECTION SHALL BE PROVIDED WITH ALL MOTOR SHOPS ON THE DRAWING (1 H.P. TO 25 H.P.).
 - 6.9 CONTROL PANELS SHALL HAVE A 1/2" MIN. STRUCTURE WITH 10,000 AMPS FOR 5 SEC. UNLESS INDICATED OTHERWISE.
- 8.0 LIGHT FIXTURES**
 - 8.1 FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, WIMPS AND ACCESSORIES. RECESSED FIXTURES WILL BE RATED FOR USE IN ANY CEILING APPLICATIONS AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS MOUNTING TYPE AND VOLTAGE OF FIXTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. (4) EARTHGROUND SHALL BE INSTALLED ON EACH OUTLET MOUNTED IN GRID OR FLANGE TYPE CEILING. FLUORESCENT FIXTURE LENSES WILL BE 100% GFCI. 1" THICK MINIMUM.
 - 8.2 ALL FIXTURES TO BE INSTALLED IN SYMMETRICAL MANNER FREE FROM LIGHT LEAKS AND SIXTY DEGREE LIGHT REFLECTORS.
 - 8.3 ALL LAY-IN FIXTURES IN ACoustICAL CEILING SYSTEMS WILL BE INSTALLED PER IBC STANDARD IN ACCORDANCE WITH LOCAL BUILDING AUTHORITY.
 - 8.4.1 SUPPORT FIXTURES PER 80 WITH TWO LOOSE SIZE #8 WIRE TO STRUCTURE AT CORNERS AND/OR FIXTURE SHALL BE FASTENED BY SCREWS INTO T-BAR RUNNERS IN ACCORDANCE WITH LOCAL AUTHORITY HAVING JURISDICTION.
- 8.5 FLUORESCENT LAMPS**
 - 8.5.1 18-3000 KELVIN TEMPERATURE UNLESS NOTED OTHERWISE.
 - 8.5.2 90 CR (COLOR RENDERING INDEX) MINIMUM.
 - 8.5.3 AS NOTED ON PLANS.
 - 8.5.4 INCANDESCENT LAMP OR EXCEED AND/USE.
 - 8.5.4 130V FOR ALL "A" TYPE LAMPS.
 - 8.5.5 AS NOTED ON PLANS.
- 8.6 BALLASTS**
 - 8.6.1 ALL BALLASTS SHALL BE:
 - 8.6.1.1 HIGH POWER FACTOR, UL LISTED, 600 CERTIFIED AND ETL TESTED.
 - 8.6.1.2 HAVE A SOUND RATING OF "A"
 - 8.6.1.3 HAVE A SOUND RATING OF "A"
 - 8.6.1.4 HAVE GREATER THAN 0.9 POWER FACTOR
 - 8.6.2 FLUORESCENT BALLAST SHALL:
 - 8.6.2.1 START RELIABLY DOWN TO AT LEAST 60° (OF WHEN INDICATED AS LOW TEMPERATURE ON THE DRAWINGS OR IN AN OPEN WAREHOUSE OR OUTDOORS).
 - 8.6.2.2 BE RATED FOR AN AMBIENT OF AT LEAST 140°F.
 - 8.6.2.3 ELECTRONIC TYPE (INSTANT OR RAPID START).
 - 8.6.2.4 START RELIABLY DOWN TO AT LEAST - 20°F.
 - 8.6.3 1/4" BALLASTS SHALL:
 - 8.6.3.1 BE RATED FOR AN AMBIENT OF AT LEAST 131°F.
 - 8.6.3.2 BE POTTED AND ENCASED WHEN INSTALLED IN AN OPEN ENVIRONMENT.
 - 8.6.3.4 HAVE PULSE START TECHNOLOGY.
 - 8.6.4 ELECTRONIC DIMMABLE BALLAST SHALL:
 - 8.6.4.1 WITHSTAND SURGES AS SPECIFIED IN ANS C82.41.
 - 8.6.4.2 PREHEAT LAMP CATHODES BEFORE APPLYING VOLTAGE.
 - 8.6.4.3 INTERNALLY LIMIT INRUSH CURRENT TO NOT EXCEED THREE AMPS AT 277 VOLTS OR SEVEN AMPS AT 120 VOLTS.
 - 8.6.4.4 BE UL LISTED AND CLASS P THERMALLY PROTECTED.
 - 8.6.4.5 BE AVAILABLE IN A 2700 AMPIERE THROUGHOUT THE DIMMING RANGE.
 - 8.6.4.6 HAVE A DIMMING RANGE FROM 10% TO 100% DIMMING EQUIPMENT.
 - 8.6.4.7 ACCEPTABLE MANUFACTURERS: ADVANCE, MOTOROLA, LUMINEX, HONEYWELL AND MANGOTE.
- 9.0 TELEPHONE SYSTEM**
 - 9.1 PROVIDE AND INSTALL A COMPLETE SYSTEM OF EMPTY RACEWAYS 3/4" EMT MINIMUM WITH FULL STRAY CORE. PROVIDE REQUIRED/REQUESTED INFORMATION TO TELEPHONE COMPANY PRIOR TO INSTALLATION.
- 10.0 DATA/INFORMATION SYSTEM**
 - 10.1 PROVIDE AND INSTALL A COMPLETE SYSTEM OF RACEWAYS (CABLE TRAYS, J-HOOKS, CONDUIT SLEEVES) OF PREFERABLY OPEN CONSTRUCTION WITH FULL LINE RACEWAYS TO BE CONTINUOUS.

GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
- THE ELECTRICAL CONTRACTOR SHALL (PRIOR TO HIS BID) a) VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AND b) TAKE ALL CONSIDERATIONS INTO ACCOUNT AT THE TIME OF BID. NO CONSIDERATIONS WILL BE GRANTED THE CONTRACTOR AFTER THE BID IS ACCEPTED.
- ALL ELECTRICAL METALLIC TUBING (EMT), RIGID NON-METALLIC CONDUIT, FLEXIBLE METALLIC CONDUIT, FLEXIBLE NON-METALLIC CONDUITS, "SEALTIGHT" TYPE CONDUITS AND ALL OTHER CONDUITS THAT DO NOT CONTAIN A CODE SIZED GROUND WIRE SHALL HAVE A CODE SIZED BOND WIRE INSTALLED WITH THE CIRCUIT CONDUCTORS.
- ALL NIGHTLIGHT/EMERGENCY LIGHT (NL/EM) FIXTURES SHALL BE CONNECTED UNSWITCHED. IF NO EMERGENCY LIFE SAFETY SYSTEM IS INSTALLED (IE: GENERATOR, ETC.), THE OUTER LAMPS SHALL BE CONNECTED UNSWITCHED TO LOCAL LIGHTING CIRCUIT AND CONNECTED VIA AN EMERGENCY BALLAST - 1400 LUMEN OR FULL LUMEN OUTPUT MINIMUM. PROVIDE NEW IF NOT ALREADY EXISTING.
- ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING AND INSTALLATION PER NEC ARTICLE "FIXTURE LOCATIONS".
- ALL RECESSED LIGHT FIXTURES SHALL BE I.C. RATED OR A MINIMUM OF 3" FROM COMBUSTIBLE MATERIAL PER NEC ARTICLE "LUMINAIRES, LAMP HOLDERS AND LAMPS" - CLEARANCE AND INSTALLATION.
- ELECTRICAL CONTRACTOR TO VERIFY A MINIMUM OF 1 FOOT-CANDLE AT 1 FOOT ABOVE FLOOR ALONG EXIT PATH PER IBC ARTICLE "MEANS OF EGRESS ILLUMINATION".
- LIGHT SWITCHES SHALL BE INSTALLED TO CONFORM TO NEC ARTICLE "SWITCHES - ACCESSIBILITY AND GROUPING".
- RECEPTABLES LOCATED WITHIN 6"-0" OF SINKS OR WATER SHALL BE CONNECTED EITHER TO A GROUND FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER OR TO A GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPT.
- PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL HVAC UNITS AND SUPPLY AIR DUCT SMOKE DETECTORS WITH THE MECHANICAL DRAWINGS.
- PROVIDE ROOF TOP WEATHER PROOF / WEATHER RESISTANT G.F.C.I. WITHIN 25'-0" OF ALL ROOF TOP HVAC EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE "HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT OUTLET". THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THESE RECEPTABLES IN THE FIELD REGARDLESS PLAN LAYOUT.
- ALL DISCONNECTS SHALL BE OF THE HEAVY DUTY TYPE AND FUSED PER THE NAMEPLATE RATING OF THE HVAC UNIT OR MOTOR.
- THE EC SHALL - PRIOR TO ROUGH-IN, FIELD VERIFY ALL HVAC VOLTAGES AND AMPERAGES AGAINST PLAN REQUIREMENTS. FAILURE TO VERIFY AND NOTIFY ENGINEER / ARCHITECT PRIOR TO ROUGH-IN SHALL INDICATE THAT THE EC SHALL ASSUME ALL RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL ENSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZE FOR HVAC EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF HVAC EQUIPMENT HAVE IMPACTED DISCONNECT, BREAKER, OR CONDUCTOR SIZE.
- ALL ROOF TOP UNITS EXPOSED TO AMBIENT TEMPERATURES AND WEATHER SHALL HAVE NEMA 3R MINIMUM RATED DISCONNECTS.
- MAXIMUM TAP CONDUCTOR LENGTH SHALL BE 25'-0" PER NEC ARTICLE "FEEDER TAPS" AND "TRANSFORMER SECONDARY CONDUCTORS" AND SHALL NOT BE SMALLER THAN 1/3 THE AMPACITY OF FEEDER CONDUCTORS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND FIRE ALARM CONTRACTOR REGARDING SMOKE DUCT DETECTORS TO INCLUDE PURCHASE, INSTALLATION, AND FINAL CONNECTIONS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER OR OTHER SUPPLIERS REGARDING ANY REQUIREMENTS FOR MOTOR STARTERS IN ADDITION TO THAT WHICH IS INDICATED FOR THE HVAC SYSTEM. THIS INCLUDES FURNISH AND INSTALL STARTERS TO INTERFACE WITH ANY ENERGY MANAGEMENT SYSTEMS OR OTHER SPECIAL SYSTEMS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE / TYPE / VOLTAGE / QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER HVAC EQUIPMENT MANUFACTURER UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE / MANUFACTURER DATA.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE / TYPE / VOLTAGE / QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER HVAC EQUIPMENT MANUFACTURER UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE / MANUFACTURER DATA.
- ALL INDOOR FLUORESCENT FIXTURES WITH DOUBLE ENDED LAMPS SHALL HAVE INTEGRAL DISCONNECTS.

GENERAL NOTES - DEMO

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
- THE ELECTRICAL CONTRACTOR SHALL (PRIOR TO HIS BID) a) VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AND b) TAKE ALL CONSIDERATIONS INTO ACCOUNT AT THE TIME OF BID. NO CONSIDERATIONS WILL BE GRANTED THE CONTRACTOR AFTER THE BID IS ACCEPTED.
- ALL POWER EXISTING TO REMAIN SHALL BE PROTECTED AND REMAIN ENERGIZED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DEMOLISHED EQUIPMENT FROM THE JOB SITE AT THE END OF EACH WORKING DAY TO PREVENT UNNECESSARY SAFETY HAZARDS, THE BUILD UP OF TRASH, ETC.
- ANY AND/OR ALL EXISTING ELECTRICAL EQUIPMENT THAT INTERFERES WITH NEW INSTALLATIONS SHALL BE DISCONNECTED, REMOVED OR RELOCATED AT NO ADDITIONAL COST TO OWNER AFTER THE BID PROCESS (REFER TO DEMOLITION NOTE #1). THIS INCLUDES ALL EQUIPMENT WITHIN THE PROJECT SCOPE AREA.
- ALL ITEMS TO BE ABANDONED OR REMOVED DURING DEMOLITION SHALL BE PHYSICALLY REMOVED. DO NOT ABANDON PIPES, J-BOXES, ETC. REMOVE ALL CONDUITS, WIRING, DEVICES, FASTENERS, BOXES, ETC.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE CODE STATUS OF ALL EXISTING EQUIPMENT AND CURRENT INSTALLATIONS AND WHERE REQUIRED, BRING SUCH EQUIPMENT AND INSTALLATION METHODS UP TO THE MOST RECENT AND CURRENT CITY, STATE AND/OR NATIONAL ELECTRICAL AND BUILDING CODES.
- PRIOR TO RE-ENERGIZING ANY EXISTING LOAD CENTERS, PANELBOARDS, ETC. THE CONTRACTOR SHALL VERIFY THE LOAD STATUS OF ALL CIRCUITS AND/OR FEEDERS TO DETERMINE THEY DO NOT EXCEED 80% OF THEIR RATED CAPACITY AND THEY ARE IN SERVICEABLE CONDITIONS. REPLACE AND/OR REPAIR AS REQUIRED.
- ALL CIRCUITS IN PANELBOARDS OR LOAD CENTERS DEMOLISHED SHALL BE RE-LABELLED IN SPARE ON PLANS SCHEDULES. RING OUT ALL CIRCUITS UNIDENTIFIED AND PROVIDE NEW UP-TO-DATE TYPED PANELBOARD SCHEDULES AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL CONDUCT A SITE INVESTIGATION PRIOR TO BID AND PRIOR TO CONSTRUCTION TO VERIFY THE EXISTING WORKING CONDITIONS AND VERIFY THE EXACT LIMITS OF DEMOLITION AND CONSTRUCTION.

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IF DRAWING IS NOT PLOTTED AT 22 X 34 THEY ARE NOT FULL SIZE

CAFE DESIGN
architecture
commercial - retail - technical interiors
Maricopa, Arizona - San Francisco, California
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DRAWINGS AND SPECIFICATIONS HEREIN ARE

ELECT. EQUIP. REQUIREMENTS

● ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE/TYPE/VOLTAGE/QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER EQUIPMENT MANUF. UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE/MANUFACTURER DATA.

◆ ALL FEEDERS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SYSTEM SPEC'S (3.2).

■ COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT PRIOR TO ROUGH-IN.

LABEL	VOLTS/Φ	FLA	BRANCH CIRCUIT	CONNECTION TYPE	CONDUCTORS/ CONDUIT
(E52) WALK-IN FREEZER COOL	208/1	5.3	PANEL CIRCUIT LA (42-44)	HEAVY DUTY 30AMP 250V 2P/2F NEMA 3R DISC. SWITCH	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E5) ICE MAKER W/BIN	120/1	14.2	PANEL CIRCUIT LA 27	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E60) OVEN STEAMER	208/3	19	PANEL CIRCUIT LA 29-31-33	HEAVY DUTY 30AMP 250V 3P/3F NEMA 1 DISC. SWITCH	(3)#10's Cu., (1)#10 Cu. E.G. - 3/4" C.
(E61) VENTLESS HOOD	208/1	.5	PANEL CIRCUIT LA (46-48)	HEAVY DUTY 30AMP 250V 2P/2F NEMA 1 DISC. SWITCH	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.

HVAC ELECT. REQUIREMENTS

● ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE/TYPE/VOLTAGE/QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER HVAC EQUIPMENT MANUFACTURER UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE/MANUFACTURER DATA.

◆ ALL CONDUCTORS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SYSTEM SPEC'S (3.2). ALL TAP CONDUCTORS SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 240.21(B)(2).

■ PROVIDE MAGNETIC MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION, (2) AUXILIARY CONTACT SWITCHES, INTERNAL LINE VOLTAGE TO 24 VOLT TRANSFORMER (250VA. MIN) WITH PROPER PRIMARY/SECONDARY PROTECTION, AMBIENT COMPENSATED, RED RUNNING LIGHT, HAND-OFF-AUTO, ACROSS THE LINE STARTERS TO 25HP. WILL BE PROVIDED WITH EACH MOTOR ON THE DRAWINGS (ONE HORSEPOWER TO 25 H.P.).

EQUIPMENT INDICATED HERE SHALL BE LISTED TO THE APPROPRIATE U.L. LISTING FOR THE USE AND BEAR A NAMEPLATE WITH THIS INFORMATION. WHEN REQUIRED, ANY NON-COMPLIANT EQUIPMENT MUST BE MADE COMPLIANT AT THE OWNERS EXPENSE AND IS NOT A PART OF THIS WORK EFFORT.

UNIT	VOLTS/Φ	FULL LOAD AMPS	DISCONNECTING MEANS	CONDUCTORS/ CONDUIT
(FC 107A) KW	277/1	6.0	PASS AND SEYMOUR PS30AC1 TOGGLE SWITCH.	(2)#10's Cu., (1)#10 Cu. E.G. - 3/4" C.
(WH 1) KW	277/1	4.5	PASS AND SEYMOUR PS20AC1 TOGGLE SWITCH.	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.

ELECT. EQUIP. REQUIREMENTS

● ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE/TYPE/VOLTAGE/QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER EQUIPMENT MANUF. UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE/MANUFACTURER DATA.

◆ ALL FEEDERS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SYSTEM SPEC'S (3.2).

■ COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT PRIOR TO ROUGH-IN.

LABEL	VOLTS/Φ	FLA	BRANCH CIRCUIT	CONNECTION TYPE	CONDUCTORS/ CONDUIT
(E17) WARMER FOOD ELECTRIC	120/1	10	PANEL CIRCUIT LA 11	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E18a) BLENDER IN COUNTER	120/1	15	PANEL CIRCUIT LA 15	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E18b) BLENDER IN COUNTER	120/1	15	PANEL CIRCUIT LA 17	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E18c) BLENDER IN COUNTER	120/1	15	PANEL CIRCUIT LA 19	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E25) RO SYSTEM	120/1	.08	PANEL CIRCUIT LA 11	120V, 20A, DUPLEX RECEPTACLE	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E30) JUICE EXTRACTOR	220/1	3.8	PANEL CIRCUIT LA (22-24)	NEMA 6-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E31a) NUT MILK EXTRACTOR	120/1	4.2	PANEL CIRCUIT LA 21	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E31b) NUT MILK EXTRACTOR	120/1	4.2	PANEL CIRCUIT LA 21	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E31c) NUT MILK EXTRACTOR	120/1	4.2	PANEL CIRCUIT LA 21	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E33) DIPPERWELL	120/1	0.1	PANEL CIRCUIT LA 23	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E41) JUICER	120/1	5.5	PANEL CIRCUIT LA 23	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E42) JUICE DISPENSER	120/1	6.0	PANEL CIRCUIT LA 23	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E43) ICE CREAM CABINET	120/1	1.3	PANEL CIRCUIT LA 25	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E45) KEG DISPENSER	120/1	2.5	PANEL CIRCUIT LA 25	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E46) VEGGIE SINK	208/1	5.2	PANEL CIRCUIT LA (26-28)	HEAVY DUTY 30AMP 250V 2P/2F NEMA 3R DISC. SWITCH	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E51a) WALK-IN COOLER CONDENSER	208/1	15.1	PANEL CIRCUIT LA (30-32)	HEAVY DUTY 30AMP 250V 2P/2F NEMA 3R DISC. SWITCH	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E51b) WALK-IN COOLER COIL	208/1	5.3	PANEL CIRCUIT LA (34-36)	HEAVY DUTY 30AMP 250V 2P/2F NEMA 3R DISC. SWITCH	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E52a) WALK-IN FREEZER CONDENSER	208/1	15.1	PANEL CIRCUIT LA (38-40)	HEAVY DUTY 30AMP 250V 2P/2F NEMA 3R DISC. SWITCH	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.

NOTE: PROVIDE GFCl CIRCUIT BREAKER AS NOTED TO COMPLY WITH NEC 210.8 READILY ACCESSIBLE REQUIREMENTS.

ELECT. EQUIP. REQUIREMENTS

● ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE/TYPE/VOLTAGE/QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER EQUIPMENT MANUF. UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE/MANUFACTURER DATA.

◆ ALL FEEDERS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SYSTEM SPEC'S (3.2).

■ COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT PRIOR TO ROUGH-IN.

LABEL	VOLTS/Φ	FLA	BRANCH CIRCUIT	CONNECTION TYPE	CONDUCTORS/ CONDUIT
(E1) REFRIGERATED SELF-SERVICE CASE	120/1	16	PANEL CIRCUIT LA 1	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E3) DISPENSING HEAD	120/1	9.1	PANEL CIRCUIT LA 3	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E5) ESPRESSO MACHINE	208/1	23	PANEL CIRCUIT LA (2-4)	NEMA L6-30R W/ GFCl CIRCUIT BREAKER	(2)#10's Cu., (1)#10 Cu. E.G. - 3/4" C.
(E6a) COFFEE GRINDER	208/1	5.0	PANEL CIRCUIT LA (6-8)	NEMA L6-30R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E6b) COFFEE GRINDER	120/1	2	PANEL CIRCUIT LA 5	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E6c) RICE COOKER	120/1	.6	PANEL CIRCUIT LA 5	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E6d) RICE COOKER	120/1	.6	PANEL CIRCUIT LA 5	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E6e) RICE COOKER	120/1	.6	PANEL CIRCUIT LA 5	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E8) REFRIGERATOR UNDERCOUNTER	120/1	2.9	PANEL CIRCUIT LA 7	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E9) OVEN MICROWAVE	208/1	30	PANEL CIRCUIT LA (10-12)	NEMA 6-30R W/ GFCl CIRCUIT BREAKER	(2)#10's Cu., (1)#10 Cu. E.G. - 3/4" C.
(E10) REFRIGERATOR SANDWICH PREP	120/1	5.5	PANEL CIRCUIT LA 7	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E12) REFRIGERATOR UNDER COUNTER	120/1	2.0	PANEL CIRCUIT LA 7	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E13) COFFEE GRINDER	120/1	9	PANEL CIRCUIT LA 9	120V, 20A NEMA 5-15R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E14a) COFFEE MAKER	208/1	36.1	PANEL CIRCUIT LA (14-16)	J-BOX DIRECT CONNECT	(3)#8's Cu., (1)#10 Cu. E.G. - 1" C.
(E14b) COFFEE MAKER	208/1	36.1	PANEL CIRCUIT LA (18-20)	J-BOX DIRECT CONNECT	(3)#8's Cu., (1)#10 Cu. E.G. - 1" C.
(E15) REFRIGERATOR UNDER COUNTER	120/1	2.9	PANEL CIRCUIT LA 11	120V, 20A NEMA 5-20R W/ GFCl CIRCUIT BREAKER	(2)#12's Cu., (1)#12 Cu. E.G. - 3/4" C.
(E16) BLENDER ON COUNTER	120/1	15	PANEL CIRCUIT LA 13	120V, 20A, RECEPTACLE W/ GFCl CIRCUIT BREAKER	(2)#10's Cu., (1)#10 Cu. E.G. - 1" C.

NOTE: PROVIDE GFCl CIRCUIT BREAKER AS NOTED TO COMPLY WITH NEC 210.8 READILY ACCESSIBLE REQUIREMENTS.

KITCHEN NOTES

- (NOT ALL MAY APPLY)
- FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.
 - THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL KITCHEN FOOD SERVICE AND RELATED EQUIPMENT.
 - INDICATES FOOD SERVICE EQUIPMENT IDENTIFICATION NUMBER. SEE FOOD SERVICE DRAWING FOR ADDITIONAL INFORMATION.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN. SEE KITCHEN AND HOOD DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.
 - KITCHEN HOOD EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED AND THE CONTROL CIRCUIT SHALL BE ROUTED THRU DRY CONTACTS PROVIDED IN THE FIRE PROTECTION SYSTEM. UPON ACTIVATION OF FIRE PROTECTION SYSTEM THOSE CIRCUIT BREAKERS SHALL BE AUTOMATICALLY TRIPPED.
 - ALL CIRCUIT BREAKERS PROVIDED WITH SHUNT TRIPPING DEVICES SHALL HAVE THE CONTROL CIRCUIT ROUTED THRU DRY CONTACTS PROVIDED IN THE FIRE PROTECTION SYSTEM. UPON ACTIVATION OF FIRE PROTECTION SYSTEM THOSE CIRCUIT BREAKERS SHALL BE AUTOMATICALLY TRIPPED.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ROUGH-IN REQUIREMENTS, LOCATIONS, ORIENTATION, VOLTAGE, PHASE, HP, KW, ETC. FOR ALL HVAC AND PLUMBING EQUIPMENT PRIOR TO ROUGH-IN.
 - ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER N.E.C. #250.95 #12 MINIMUM GROUND. WIRE NOT SHOWN ON DRAWINGS.
 - THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF KITCHEN EQUIPMENT SUPPLIER.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE PLUG CONFIGURATIONS FOR APPLICABLE KITCHEN EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
 - ALL DEVICES, CONDUIT, ETC. SHALL BE INSTALLED PER LOCAL HEALTH CODES AND ORDINANCES.
 - DEVICES COVERPLATES SHALL BE STAINLESS STEEL AND JUNCTION BOXES SHALL BE TYPE 'FS'.

INTERIOR ARCHITECTURE & DESIGN

CAFE DESIGN & architecture

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AREA OF WORK
KEY PLAN

KEYED NOTES

- NEW PANEL "HA".
- NEW 75KVA 277/480V TO 120/208V, 3-PHASE, STEP DOWN TRANSFORMER, 3.2%.
- NEW PANEL "LA"
- WALK-IN COOLER LIGHT FIXTURE IS PROVIDED BY WALK-IN COOLER MANUFACTURER.
- PROVIDE DUPLEX RECEPTACLE FLOOR BOX, VERIFY EXACT LOCATION OF FLOOR BOXES WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- (1) 3/4" C. FOR POWER. SAW CUT EXISTING CONCRETE SLAB FOR NEW CONDUITS SHOWN. PATCH FLOOR TO MATCH EXISTING FINISH. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 120V FRACTIONAL HORSEPOWER EXHAUST FAN. PROVIDE WITH PS20AC1 MOTOR RATED SWITCH ON WALL AS DISCONNECTING MEANS.
- J-BOX FOR CONNECTION TO MISTING SYSTEM. PROVIDE WITH PS20AC1 MOTOR RATED SWITCH ON WALL AS DISCONNECTING MEANS. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH MISTING SYSTEM EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
- WP J-BOX FOR TENANT SIGNAGE. CIRCUIT CONTROLLED VIA LIGHTING CONTROL PANEL WITH ASTRONOMICAL TIMECLOCK. PROVIDE TOGGLE SWITCH IN WEATHERPROOF ENCLOSURE AS DISCONNECTING MEANS PER NEC 600.6. VERIFY EXACT LOCATION AND REQUIREMENTS WITH TENANT/OWNER PRIOR TO ROUGH-IN.
- 4"x4"x3/4" PLYWOOD TELEPHONE MOUNTING BOARD "TMB" WITH (1) #6 BOND TO BUILDING STEEL PER NEC ARTICLE 800. EXTEND (1) 1 1/2" EMPTY CONDUITS FROM MAIN TMB. VERIFY LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
- 120V J-BOX FOR WATER HEATER CIRC PUMP. PROVIDE WITH PS20AC1 MOTOR RATED SWITCH ON WALL AS DISCONNECTING MEANS.
- CEILING MOUNTED RECEPTACLE FOR SHOW WINDOW. INSTALL PER NEC 210.62.

DATES

HEALTH & BLDG. RESUBMITAL 09.15.19
DESIGN ENGINEERING 08.15.19
FOR FRANCHISE REVIEW 07.10.19

DRNK
coffee + tea

QWENCH
juice bar

CLIENT

DRNK / QWENCH
Store #7235

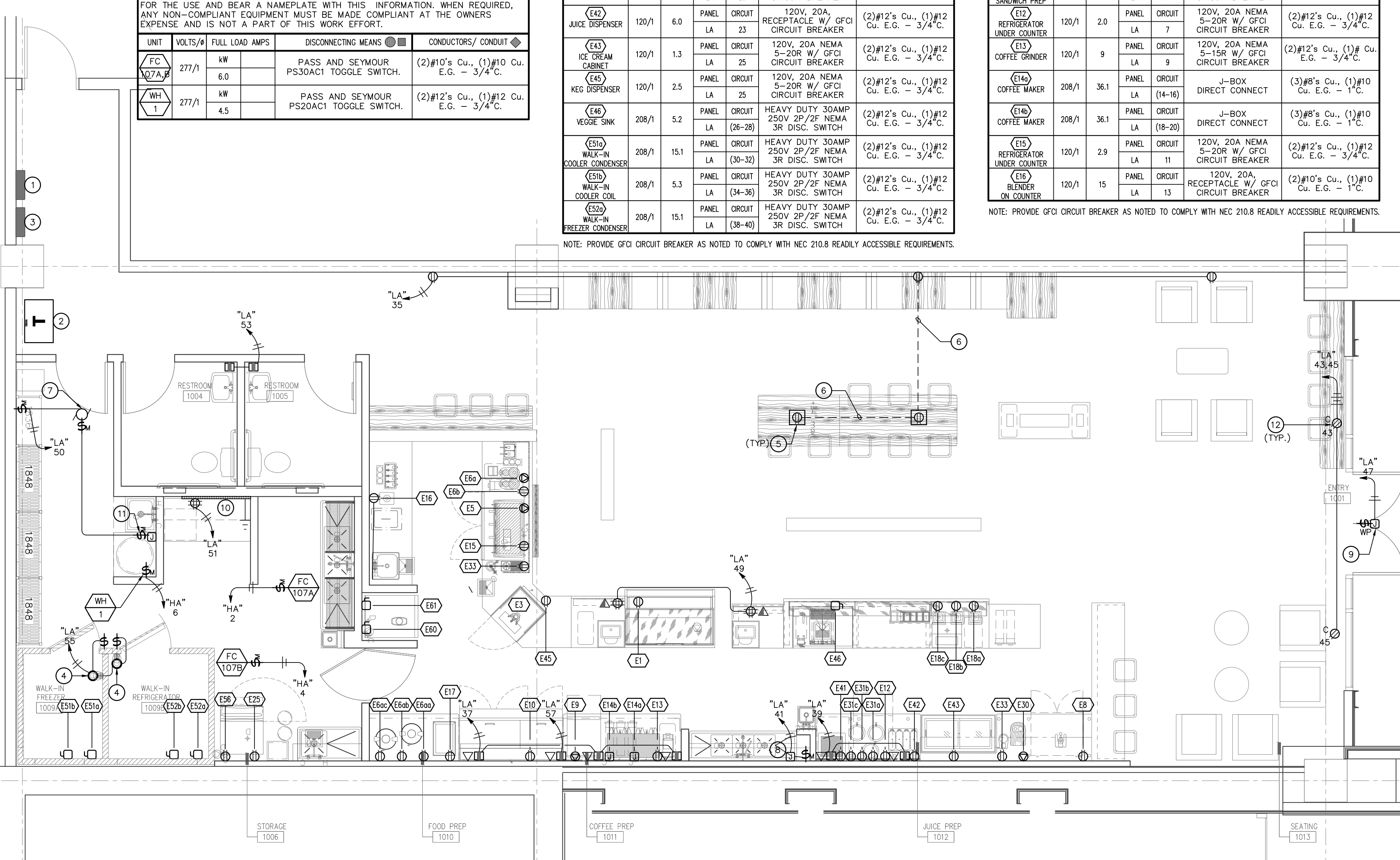
Suite 107
Tempe Az

PROJECT # 7235
TITLE

ELECTRICAL
POWER PLAN

SHEET NO.

E1.0



1 ELECTRICAL POWER PLAN
SCALE: 1/4"=1'-0"

Project Contact/Designer: JOSHUA SANDERS
Project # 19304

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ANSI D STANDARD SIZE SHEET - PLOT 100% NO SCALING ON 22 X 34

NEW PANELBOARD SCHEDULE 'LA'

TYPE:	PANELBOARD	NEMA TYPE:	NEMA 1	MAIN TYPE:	200A M.C.B.				
VOLTAGE:	208Y/120V 3Ø 4W	AFC:	5, 724	FED THRU:	NO				
MOUNTING:	SURFACE	C/B RATING:	FULLY RATED	ISO. GROUND:	NO				
BUS AMPS:	225	C/B A.I.C.:	10,000	SERVICE RATED:	NO				
LOAD TAKEN AT 125%	*	PROVIDE TIE BAR	⊕	EXIST. TO REMAIN UNCHANGED	□				
HANDLE "LOCK-ON" DEVICE	⊖	CIRCUIT VIA LTG CONTROLS	⊕	EXIST. WITH CHANGED LOAD	○				
HANDLE "LOCK-OFF" DEVICE	⊖	EXIST. W/ ALL LOAD REMOVED	⊕	NEW BREAKER WITH NEW LOAD	△				
R = RECEIPTS H = H.V.A.C. E = EQUIP. K = KITCHEN M = MISC. L = CONT. LIGHTING C = CONT. EQUIP.									
T	AREA SERVED	C/B #	Aφ	Bφ	Cφ	#	C/B	T	AREA SERVED
⊕	K REFRIGERATED SELF-SERVE (E1)	20 1	1248	1555		2	30	2	K ESPRESSO MACHINE (E5)
⊕	K DISPENSING HEAD (E3)	20 1	710			2	30	2	K COFFEE GRINDER (E6)
⊕	K COFFEE GRINDER (E8)	20 1	297	338		6	20	2	K OVEN MICROWAVE (E9)
⊕	K COFFEE GRINDER (E10)	20 1	812	338		8	20	2	K COFFEE MAKER (E14)
⊕	K COFFEE GRINDER (E13)	20 1	702	2028		10	30	2	K COFFEE MAKER (E14)
⊕	K BLENDER (E16)	20 1	1170	2441		14	40	2	K COFFEE MAKER (E14)
⊕	K BLENDER (E18)	20 1	1170	2441		16	40	2	K COFFEE MAKER (E14)
⊕	K BLENDER (E19)	20 1	1170	2441		18	40	2	K COFFEE MAKER (E14)
⊕	K BLENDER (E16)	20 1	1170	2441		20	40	2	K COFFEE MAKER (E14)
⊕	K BLENDER (E18)	20 1	1170	2441		22	40	2	K COFFEE MAKER (E14)
⊕	K BLENDER (E19)	20 1	1170	2441		24	40	2	K COFFEE MAKER (E14)
⊕	K NUT MLK (E31)	20 1	983	514		22	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		24	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		26	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		28	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		30	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		32	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		34	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		36	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		38	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		40	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		42	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		44	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		46	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		48	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		50	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		52	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		54	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		56	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		58	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		60	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		62	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		64	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		66	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		68	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		70	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		72	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		74	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		76	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		78	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		80	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		82	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		84	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		86	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		88	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		90	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		92	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		94	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		96	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		98	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		100	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		102	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		104	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		106	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		108	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		110	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		112	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		114	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		116	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		118	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		120	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		122	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		124	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		126	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		128	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		130	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		132	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		134	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		136	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		138	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		140	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		142	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		144	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		146	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		148	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		150	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		152	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		154	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		156	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		158	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		160	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		162	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		164	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		166	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		168	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		170	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		172	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		174	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		176	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		178	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		180	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		182	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		184	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		186	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		188	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		190	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		192	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		194	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		196	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		198	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		200	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		202	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		204	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		206	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		208	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		210	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		212	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		214	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		216	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		218	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		220	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		222	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		224	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		226	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31)	20 1	983	514		228	20	2	K JUICE EXTRACTOR (E30)
⊕	K NUT MLK (E31								