

GENERAL NOTES

1. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS OR SPECIFICATIONS, ADDENDUM, BULLETINS, OR OTHER DOCUMENT, SHALL BE AS BINDING AS IF REQUIRED BY ALL. CONTRACTOR SHALL USE ONLY COMPLETE SETS OF CONTRACT DOCUMENTS FOR EACH AND EVERY ITEM OF WORK.
2. CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODE, ORDINANCE, A.D.A., T.A.S AND REGULATIONS OF ALL GOVERNING BODIES.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES AND STANDARD SPECIFICATIONS OF ALL AGENCIES THAT HAVE THE RESPONSIBILITY OF REVIEWING PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF ALL ITEMS PER THESE PLANS AND SPECIFICATIONS IN THIS LOCALITY.
5. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS AS REQUIRED FOR CONSTRUCTION OF THIS PROJECT. OWNER WILL PAY FOR BUILDING PERMIT.
6. WHEN ANY EXISTING UTILITY REQUIRES ADJUSTMENT OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY AND COORDINATE HIS WORK ACCORDINGLY. THERE SHALL BE NO CLAIM MADE BY THE CONTRACTOR AND ANY COSTS CAUSED BY DELAYS IN CONSTRUCTION TO THE ADJUSTMENT OR RELOCATION OF UTILITIES.
7. ALL TRAFFIC CONTROLS ON THIS PROJECT SHALL ADHERE TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
8. THE OWNER SHALL NOT BE LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
9. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS, AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE CONSENT OF THE OWNER OF THE OTHER PROPERTY.
10. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION PROPERLY AND PROVIDE ALL SUITABLE FILL MATERIAL AS APPROVED BY THE SOILS ENGINEER, AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR THE RELATED ITEMS.
11. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT PROPERTY AT ALL TIMES DURING CONSTRUCTION. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO CAUSE ANY MUD, SILT, OR DEBRIS ONTO PUBLIC OR ADJACENT PROPERTY. ANY MUD OR DEBRIS ON PUBLIC PROPERTY SHALL BE REMOVED IMMEDIATELY.
12. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR TO BE FREE FORM DEFECTS IN WORKMANSHIP AND MATERIALS AND IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THAT THE CONTRACTOR SHALL REPLACE OR REPAIR ANY WORK OR MATERIAL FOUND TO BE DEFECTIVE.
13. CONTRACTOR SHALL VERIFY THAT THE PLANS AND SPECIFICATIONS THAT HE IS USING ARE THE VERY LATEST PLANS AND SPECIFICATIONS.
14. SHOULD THE CONTRACTOR ENCOUNTER CONFLICTS BETWEEN THESE PLANS AND SPECIFICATIONS, EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT ISSUING AGENCIES, HE SHALL SEEK CLARIFICATION IN WRITING FROM THE ARCHITECT BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
15. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURE AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAK OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED, IF EXISTING UTILITY CONSTRUCTION CONFLICTS WITH REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
16. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS EXCEPT THAT THE SPECIFICATIONS, WHERE MORE STRINGENT, SHALL GOVERN.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS, EXTENSIONS, WATER AND ELECTRICITY FOR ALL PROJECT FUNCTIONS, OFFICE, STORAGE, ETC.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE, FAX MACHINE, TOILET, VALVES, OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES SHALL BE REMOVED AT COMPLETION OF THE PROJECT.
19. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT IN A TIMELY MANNER THAT WILL ALLOW NOT LESS THAN TEN DAYS FOR REVIEW. THE GENERAL CONTRACTOR SHALL SUBMIT CORRECT NUMBER REQUIRED, BUT NOT LESS THAN FOUR COPIES.
20. THE GENERAL CONTRACTOR SHALL PROVIDE STREET NUMBERING ON THE BUILDING IN COMPLIANCE WITH LOCAL AUTHORITY.
21. ALL PENETRATIONS THRU WALLS SHALL BE SEALED AIR/WATER TIGHT AND CAULKED WITH TWO PART SEALANT EACH SIDE.
22. THE GENERAL CONTRACTOR SHALL PROVIDE ONE COPY OF AS-BUILT DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT. AS-BUILT DRAWINGS SHALL BE KEPT ON THE JOB AT ALL TIMES AND UPDATED THROUGHOUT THE CONSTRUCTION PHASE.
23. UNLESS NOTED OTHERWISE, SITE PLAN DIMENSIONS, ARE TO FACE OF CURB. FLOOR PLAN DIMENSIONS ARE TO FACE OF STUDS, FRAMING, MASONRY, CONCRETE WALL PANELS, OR FOUNDATION WALLS.
24. SPECIAL INSTRUCTIONS NOTE:  
AT THE COMPLETION OF CONSTRUCTION, A FINAL REPORT OF REQUIRED SPECIAL INSPECTIONS (PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE) CONFIRMS THAT THE LISTED REQUIRED SPECIAL INSPECTIONS HAVE BEEN CONDUCTED AND COMPLETED WILL BE SUBMITTED TO THE BUILDING OFFICIAL, VIA THE OWNER. IT IS OUR UNDERSTANDING THAT A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED BY THE CITY OF VERO BEACH UNTIL THIS FINAL REPORT IS RECEIVED. REFER TO DOCUMENT LABELED "DETERMINATION OF REQUIRED SPECIAL INSPECTIONS" AS WELL AS STRUCTURAL SHEET OR REQUIRED INSPECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE DOCUMENTATION THAT ALL REQUIRED INSPECTIONS HAVE BEEN CONDUCTED AND ALL REPORTED NON-COMPLYING ITEMS HAVE BEEN RESOLVED.
25. GOVERNING CODE AND FIRE DEPARTMENT, FIELD INSPECTORS SHALL DICTATE SIZE, TYPE, QUANTITY AND LOCATIONS OF BOTH TEMPORARY AND PERMANENT PORTABLE FIRE EXTINGUISHERS.
26. ALL EXPOSED ELECTRICAL EQUIPMENT, CONDUITS, PLUMBING LINES, ETC. SHALL BE PAINTED W/MIN (2) COATS OF PAINT TO MATCH ADJACENT SURFACES.
27. KNOX BOX-LOCATE PER LOCAL FIRE DEPARTMENT REQUIREMENTS.
28. ANY MODIFICATIONS OR DEVIATIONS FROM THE DRAWINGS MUST BE PROPOSED BY THE CONTRACTOR TO THE ARCHITECT AND OWNER FOR REVIEW PRIOR TO IMPLEMENTATION.
29. PIZZA OVEN TO BE PERMITTED SEPARATELY.
30. ALL SIGNAGE TO BE PERMITTED SEPARATELY.

PERMIT COMMENTS  
10.02.18

URBAN BRICKS PIZZA CO. - VERO BEACH

2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

PERMIT RESUBMITTAL

10.02.18

PERMIT COMMENTS  
10.02.18

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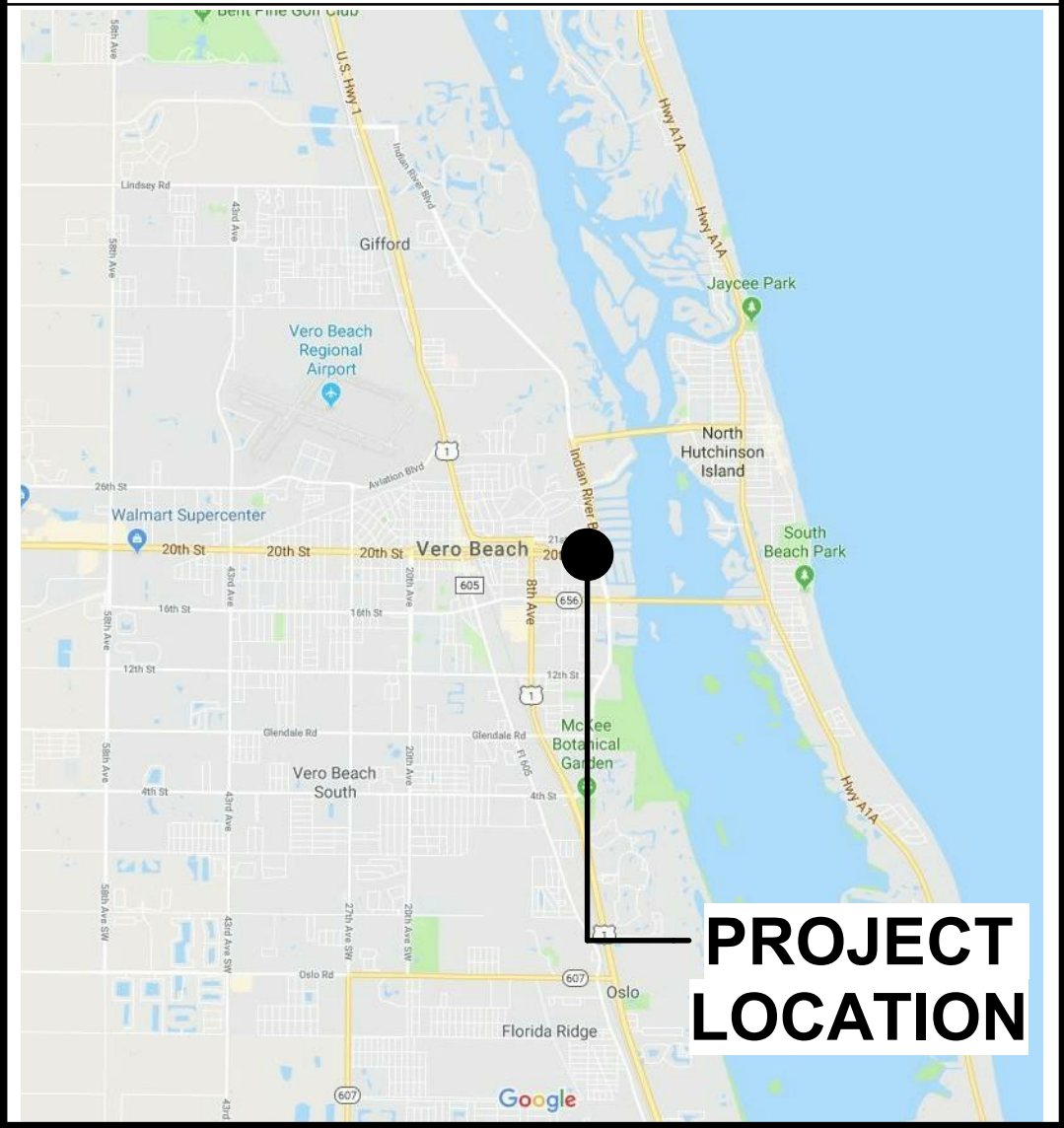
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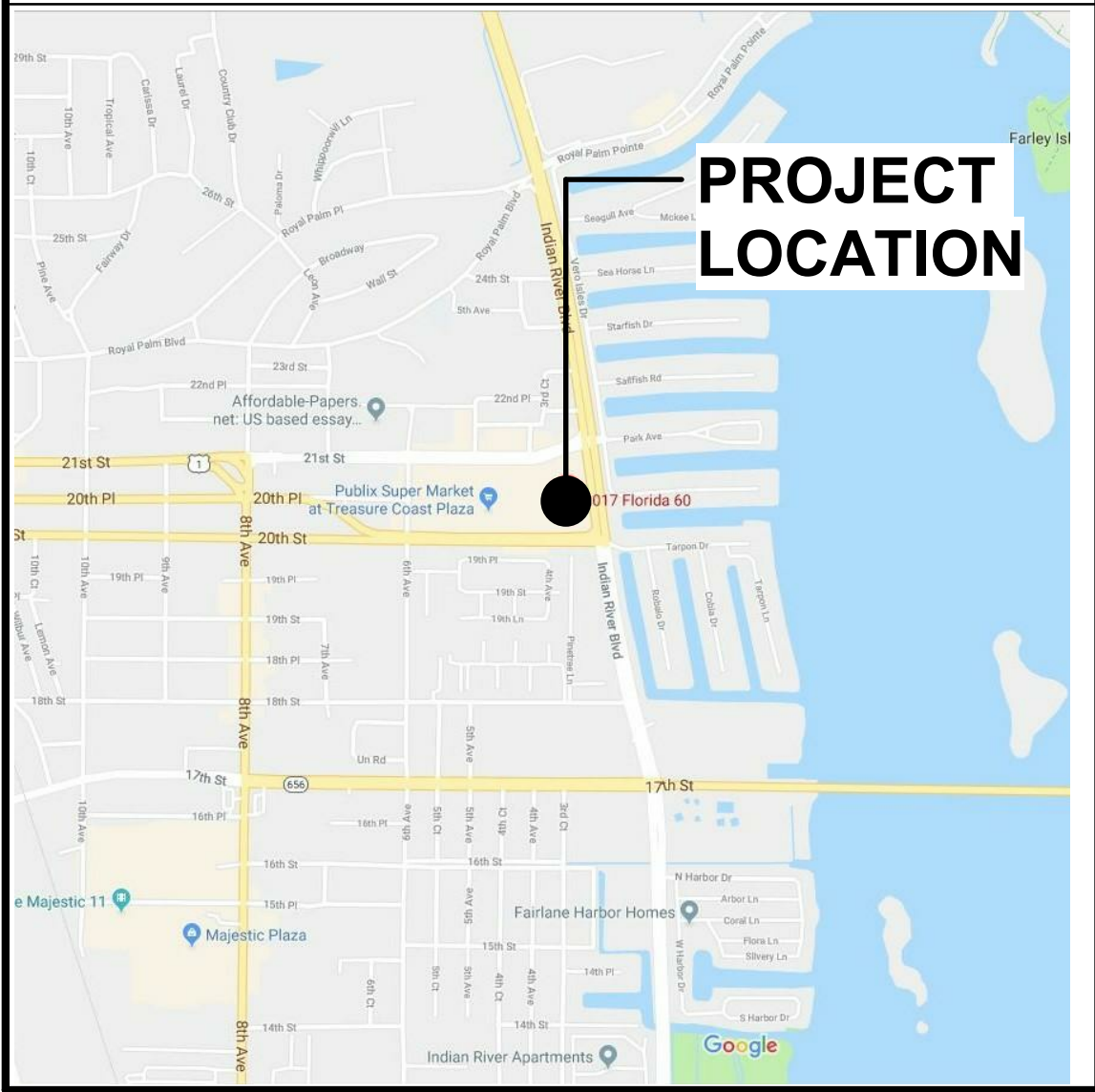
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VICINITY MAP



LOCATION MAP



VENDOR CONTACTS

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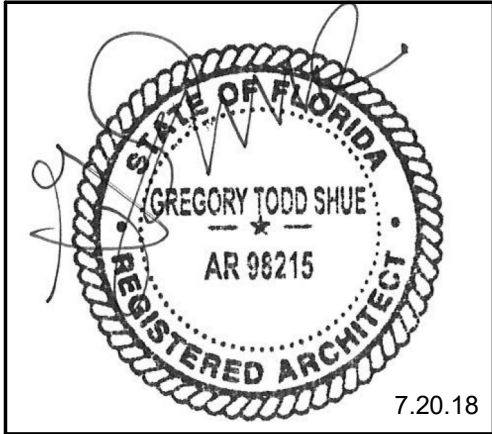
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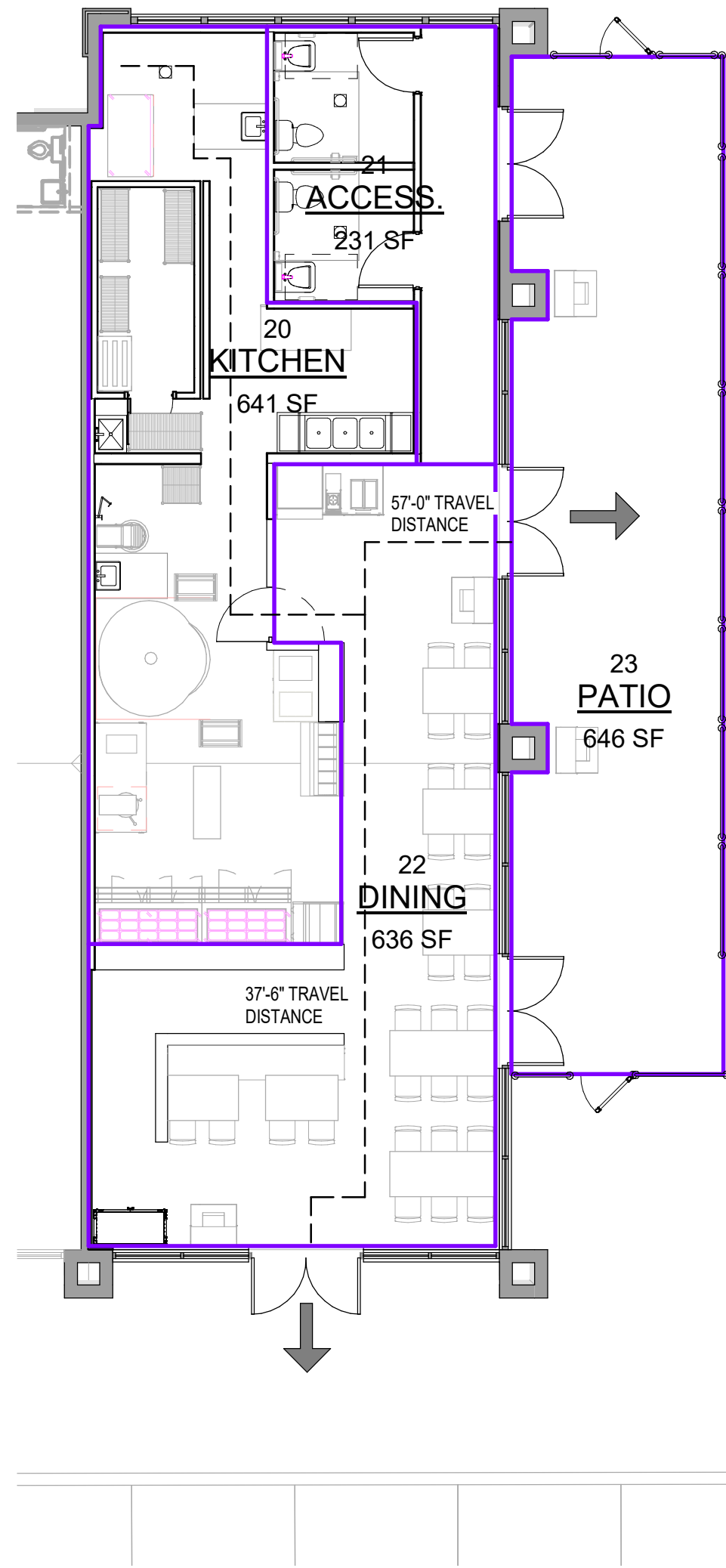
URBAN BRICKS PIZZA CO. -  
VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

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drawing number:

G101





1 CODE ANALYSIS PLAN  
SCALE: 1/8" = 1'-0"

NOT USED

OWNER COMMENTS  
10.02.18

CODE ANALYSIS

OWNER COMMENTS  
10.02.18

DESCRIPTION..... INTERIOR FINISH OUT & EXTERIOR PATIO- RESTAURANT  
TOTAL BUILDING AREA..... INTERIOR - 1,574 SF  
EXTERIOR - 646 SF

NAME	FUNCTION OF SPACE	AREA	OCCUPANT LOAD FACTOR (S.F./Occupant)	OCCUPANT LOAD
ACCESS.	(none)	231 SF	300	0.8
DINING	(none)	636 SF	15	42.4
KITCHEN	(none)	641 SF	200	3.2
PATIO	(none)	646 SF	15	43.0
		2,153 SF		89.4

APPLICABLE CODES  
BUILDING CODE as Amended..... 2017 FBC - Building, 6th  
FIRE CODE As Amended..... 2017 FFPC, 6th  
MECHANICAL CODE as Amended..... 2017 FBC - Mechanical, 6th  
PLUMBING CODE as Amended..... 2017 FBC - Plumbing, 6th  
ELECTRICL CODE as Amended..... 2014 NEC NFPA 70  
ENERGY CODE as Amended..... 2017 FBC - Energy Conservation Code, 6th  
ACCESSIBILITY STANDARDS as Amended..... 2017 FBC - Accessibility, 6th

Construction Type	Sprinkled	Maximum Dead End Passage	Maximum Common Path of Travel
II-B	Un-Sprinkled	20' - 0"	75' - 0"

ALLOWABLE AREA:  
PER FBC TABLE 504/ FFPC CHAPTER 8.2  
OCCUPANCY..... GROUP A - ASSEMBLY , A-2  
CONSTRUCTION TYPE..... II-B  
MAXIMUM HEIGHT..... 55' - 0"  
MAXIMUM STORIES..... 2 STORIES  
MAXIMUM AREA..... 9,500 PER STORY

PLUMBING FIXTURE CALCULATIONS:  
(PER TABLE 2902.1 FBC)  
90 OCCUPANTS ..... 45 MALE  
45 FEMALE

MALE CALCULATIONS  
W/C REQUIRED (1 PER 75)..... 1  
LAVATORY REQ'D. (1 PER 200)..... 1

FEMALE CALCULATIONS  
W/C REQUIRED (1 PER 75)..... 1  
LAVATORY REQ'D. (1 PER 200)..... 1

EXIT CALCULATIONS:  
PER FBC SECTION 1005/ PER FFPC CHAPTER 7.3  
EXIT WIDTH REQUIRED..... (90 X 0.2) = 18  
EXIT WIDTH PROVIDED..... 216"  
MIN. NUMBER OF EXITS (PER TABLE 1006.2 (FFPC 7.4))..... 1  
NUMBER OF EXITS PROVIDED..... 3

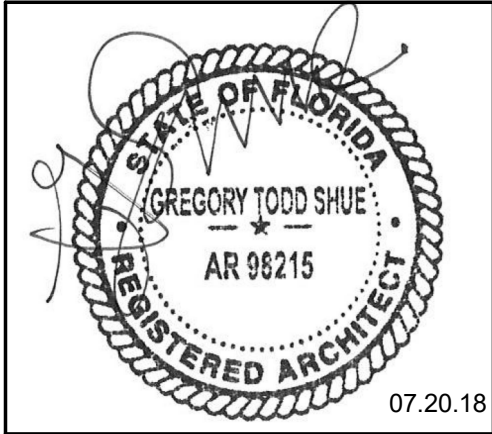
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VERO BEACH, FL

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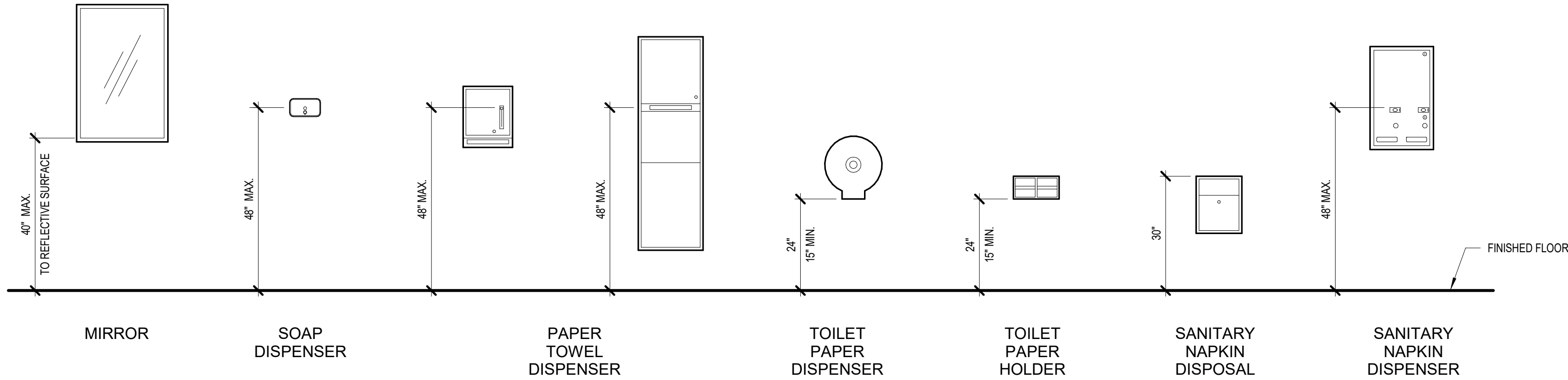
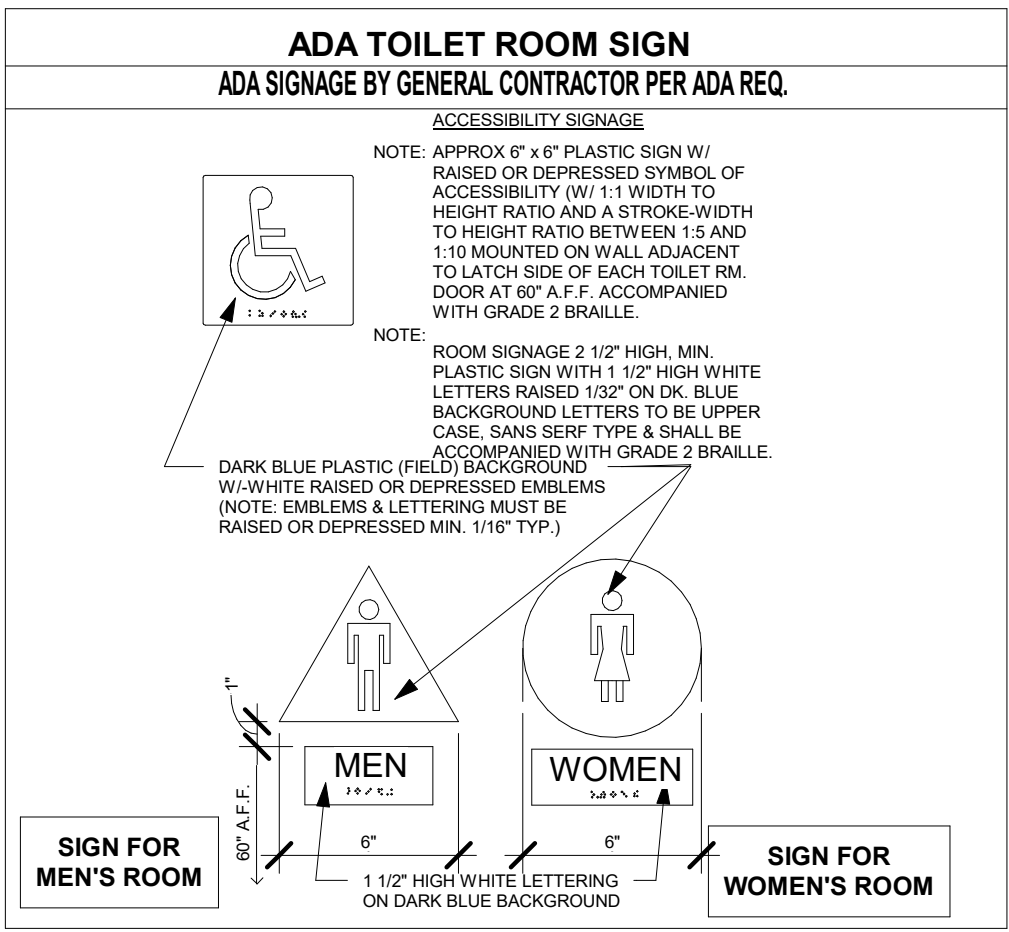
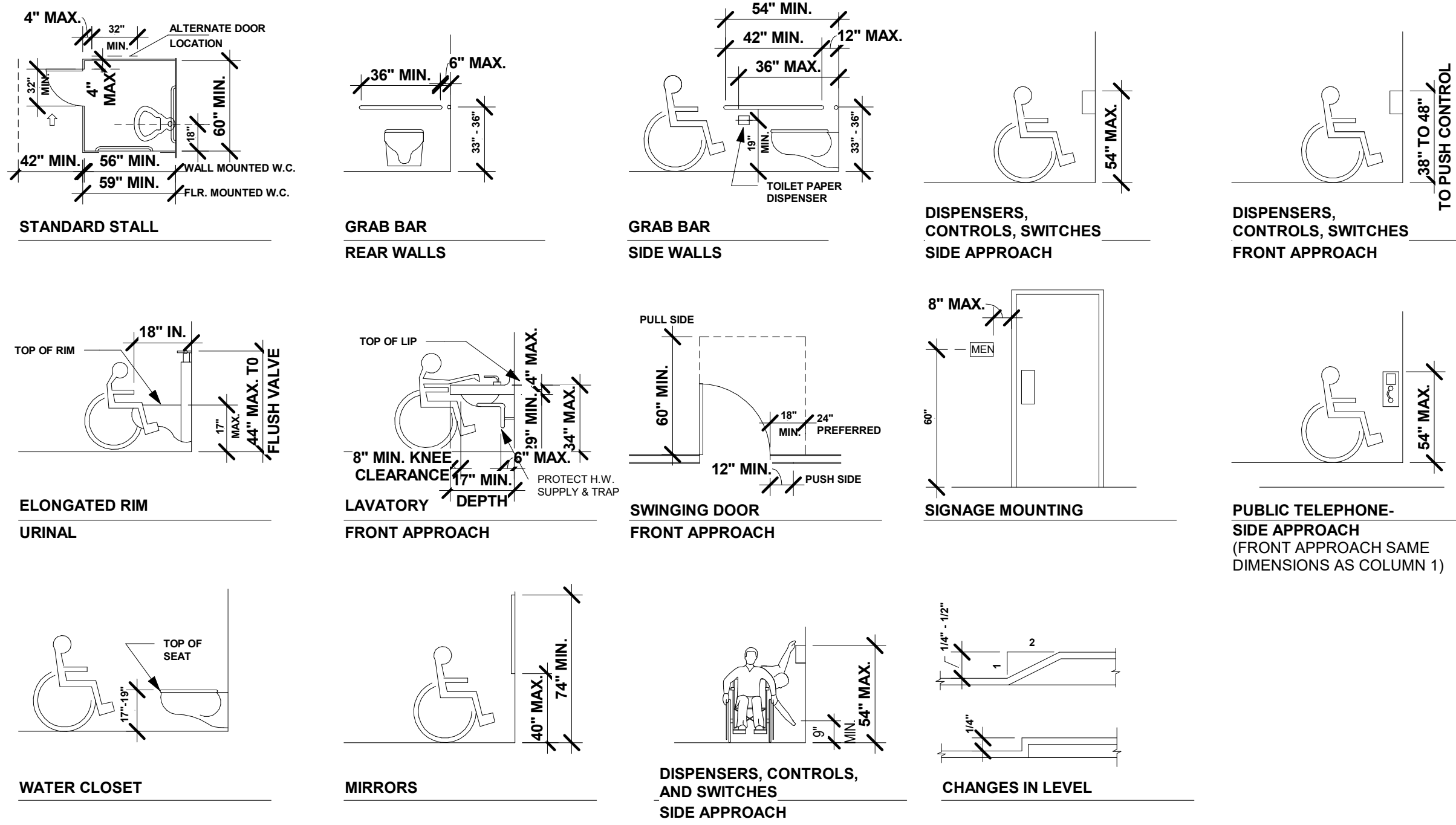
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GENERAL ACCESSIBILITY NOTES

1. **DOOR HARDWARE:** DOORS SHALL HAVE LEVER-OPERATED MECHANISM, PUSH TYPE MECHANISMS, OR U-SHAPED HANDLES.
- HANDLE PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
- MOUNTING HEIGHT: HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.
- CLOSER OPERATION: THE SWEEP PERIOD OF A CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
- THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
- (A) EXTERIOR HINGED DOOR: NO REPLACEMENT
  - (B) INTERIOR HINGED DOORS: 5 LBF
  - (C) SLIDING OR FOLDING DOORS: 5 LBF
2. **CONTROLS AND OPERATING MECHANISM:** HEIGHT, SWITCHES, THERMOSTATS, CONTROLS, DISPENSERS, RECEPTACLES, AND THE HIGHEST OPERABLE EQUIPMENT SHALL BE PLACED NO HIGHER THAN 48" ABOVE THE FLOOR.
- EXCEPTION: THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR THE USE BY BUILDING OCCUPANTS.
- FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN 44" ABOVE THE FLOOR.
- OPERATION: CONTROLS AND OPERATING MECHANISM SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR GREATER THAN 5 LBF.
3. **GRAB BARS:** THE OUTSIDE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB SHALL BE 1-1/4" TO 1-1/2", OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
- IF HANDRAILS OR GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2".
- BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF. SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
- SHEAR STRESS INDUCED A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF. SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
- SHEAR STRESS INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF. SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
- TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF. SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.
- ROTATION OF GRAB BARS WITHIN THEIR FITTINGS IS NOT ACCEPTABLE.
- SHARP OR ABRASIVE ELEMENTS ARE NOT ACCEPTABLE FOR A HANDRAIL OR GRAB BAR OR ANY WALL OR OTHER SURFACE ADJACENT TO ITS EDGES.
4. **SIGNAGE:** THE WIDTH-TO-HEIGHT RATIO OF LETTERS AND NUMBERS ON SIGNS SHALL HAVE BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10 USING AN UPPER-CASE "X" FOR MEASUREMENT. LOWER CASE LETTERS ARE PERMITTED.
- OVERHEAD SIGN CHARACTERS AND NUMBERS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO READ. FOR SUSPENDED OR PROJECTED OVERHEAD SIGNS, THE MINIMUM CHARACTER HEIGHT IS 3".
- BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE RAISED 1/32", UPPER CASE, SAN SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.
- FINISH: THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON GLARE-FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
- PERMANENT IDENTIFICATION SIGNS PROVIDED FOR ROOM AND SPACES, SIGN SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
- MOUNTING LOCATION FOR REACH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
5. **FOOD SERVICE LINES:** ALL CONTROLS SHALL NOT EXCEED 54" A.F.F. FOR SIDE APPROACH REACH RANGES

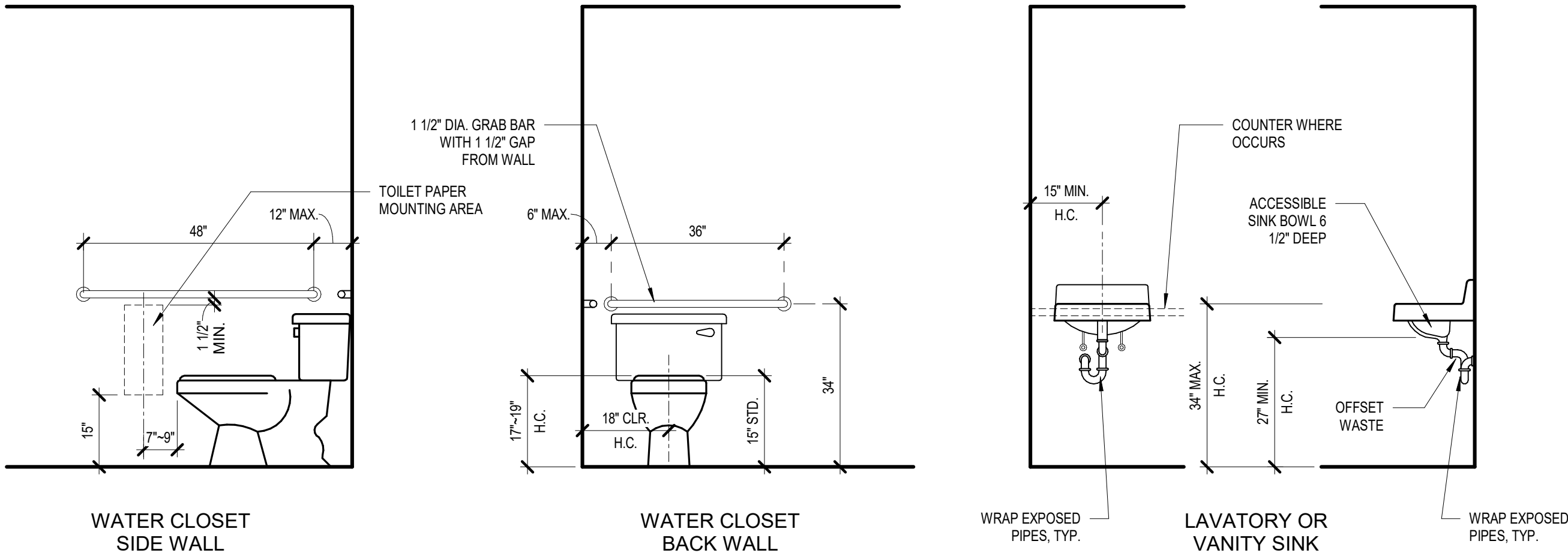
ACCESSIBILITY STANDARDS

\* REFER TO SPECIAL ACCESSIBILITY REQUIREMENTS NOTES. \*



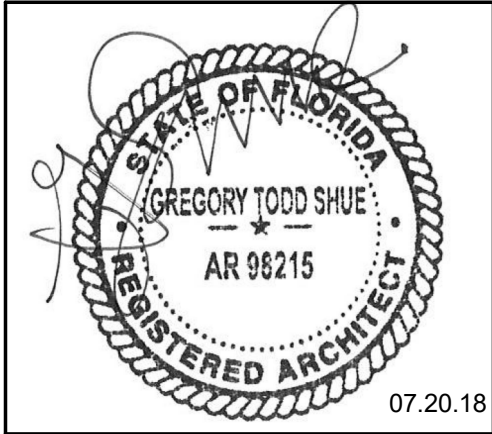
TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS

ALL MOUNTING HEIGHTS ARE BASED ON THE 9TH GRADE AND OVER HEIGHTS. REFERENCE A0.2 AND A0.3 FOR ALL OTHER REQUIREMENTS.



TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

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Revisions		
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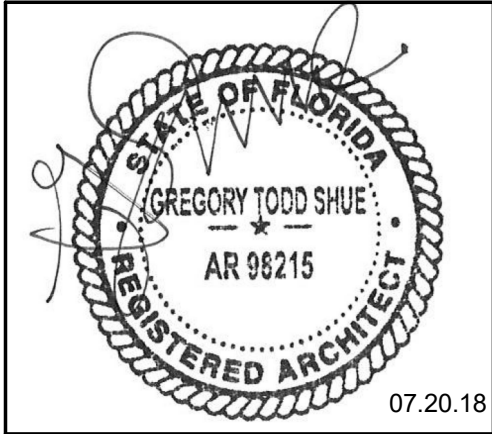
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VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

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STANDARDS

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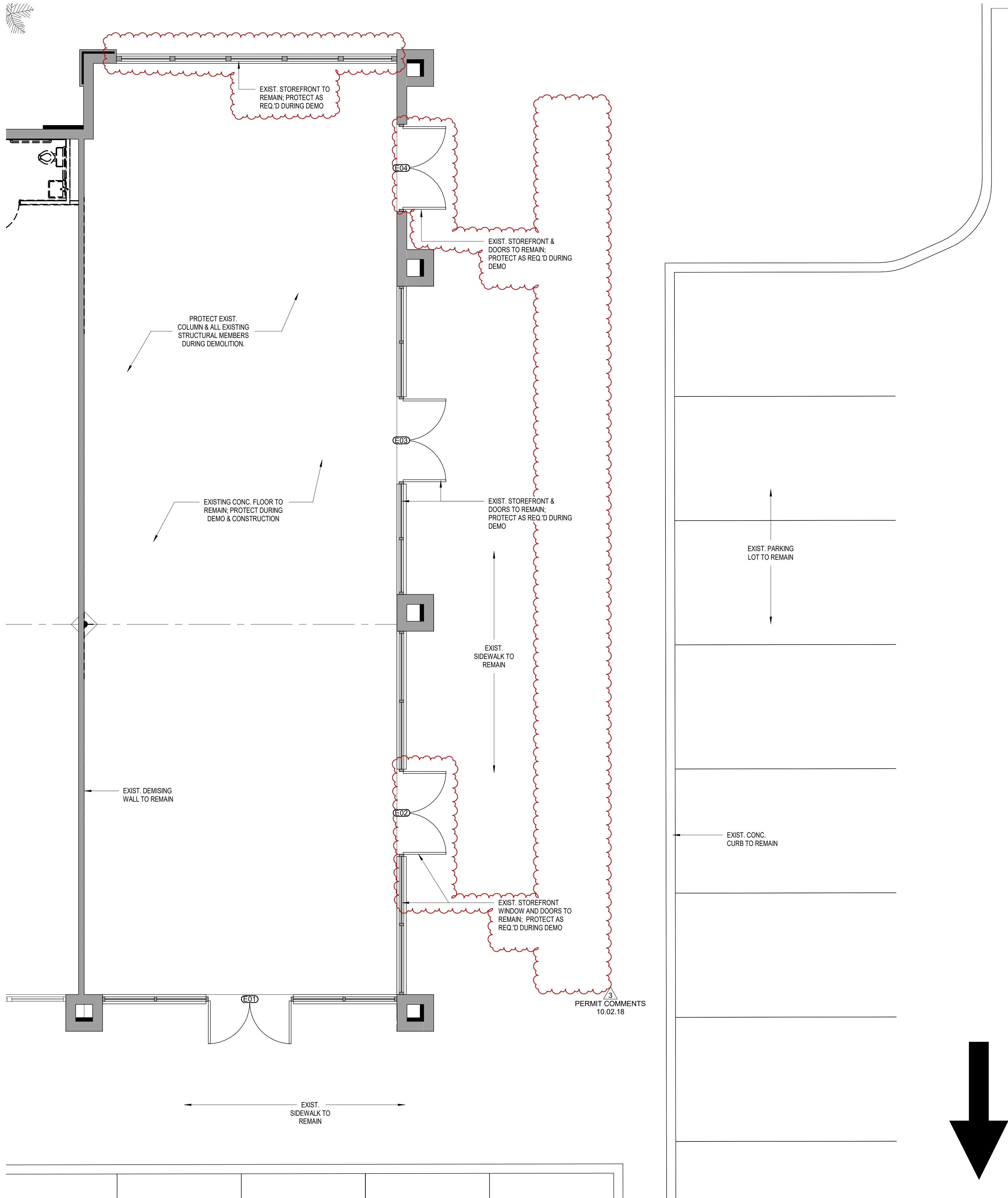
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2017 INDIAN RIVER BLVD.  
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DEMO PLAN

drawing number:

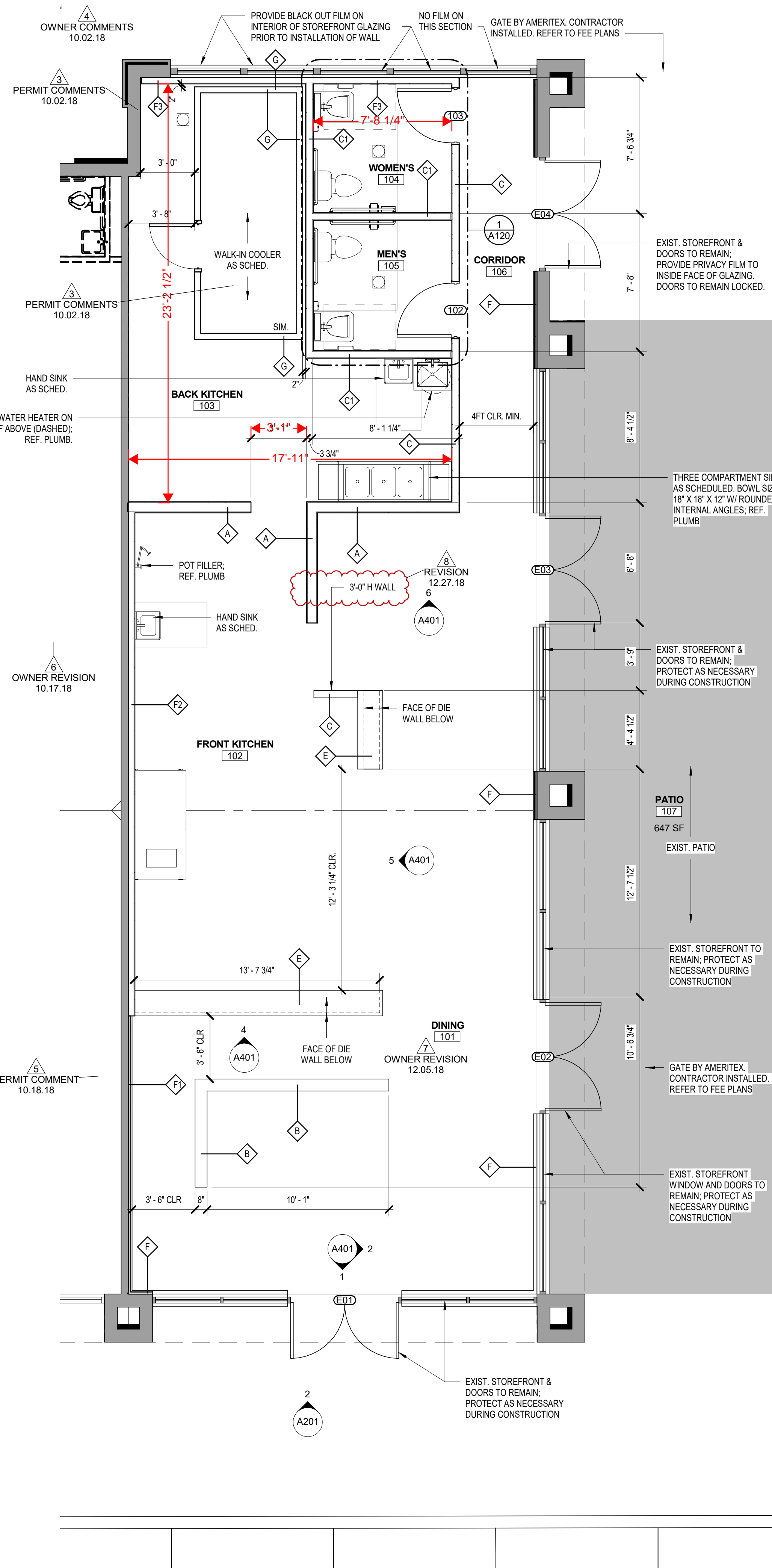
AD101



1 FIRST FLOOR - DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"

DEMO FLOOR PLAN LEGEND	
	DEMO WALL
	EXISTING WALL / PARTITION TO REMAIN
	DEMO DOOR



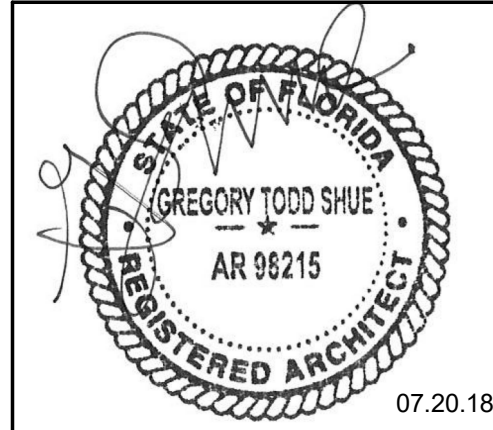


**1 FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**2 DRY STORAGE DECK**  
SCALE: 1/4" = 1'-0"

FLOOR PLAN LEGEND	
	NEW 8" CMU WALL INFILL FINISHED TO MATCH EXIST. ADJACENT WALLS
	NEW WALL / PARTITION
	EXISTING WALL / PARTITION
	FLOOR DRAIN (REF. PLUMB)

GREG T. SHUE,  
ARCHITECT  
27134 Ranchland View  
Boerne, TX 78006



Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
2	ADD #1	08.29.18
3	PERMIT COMMENTS	10.02.18
4	OWNER COMMENTS	10.02.18
5	PERMIT COMMENT	10.18.18
6	OWNER REVISION	10.17.18
7	OWNER REVISION	12.05.18
8	REVISION	12.27.18

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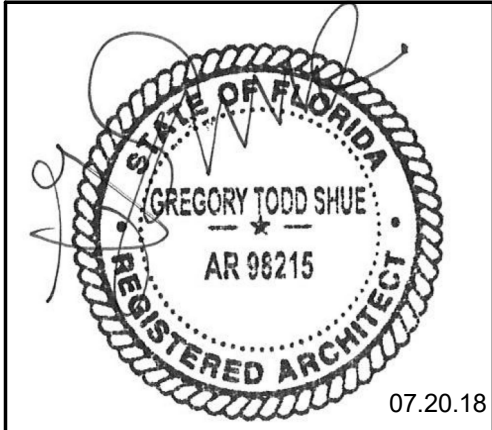
**URBAN BRICKS PIZZA CO. -  
VERO BEACH**  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: CG  
checked by: GS  
drawing title: FIRST FLOOR PLAN

drawing number:

**A101**





Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
3	PERMIT COMMENTS	10.02.18
6	OWNER REVISION	10.17.18
7	OWNER REVISION	12.05.18

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VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: CG  
checked by: GS  
drawing title:

FF&E PLANS

drawing number:

A102

NOT USED

2 DRY STORAGE DECK FFE PLAN

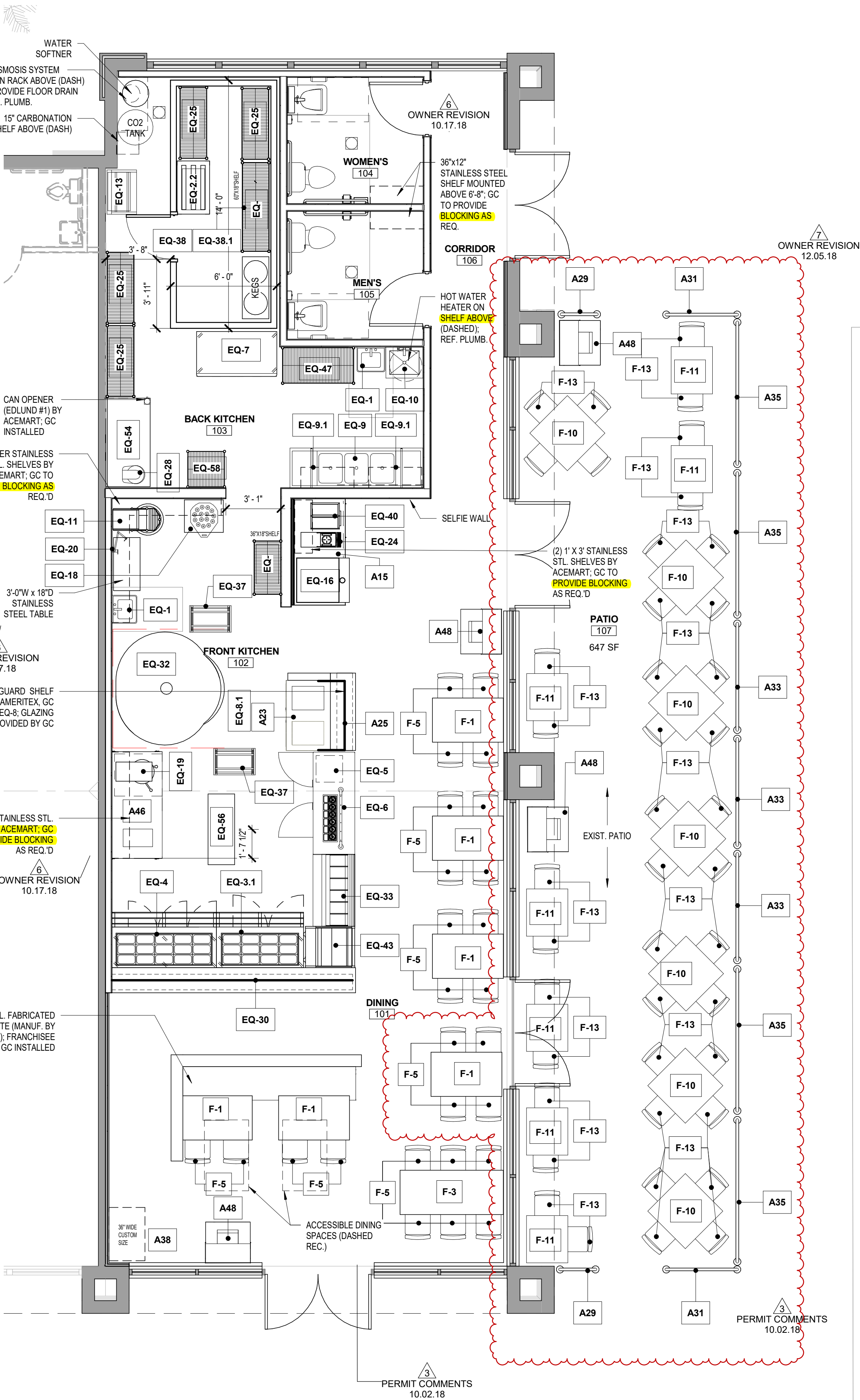
SCALE: 1/4" = 1'-0"

PERMIT COMMENTS  
10.02.18

FLOOR PLAN LEGEND

- NEW 8" CMU WALL INFILL FINISHED TO MATCH EXIST. ADJACENT WALLS
- NEW WALL / PARTITION
- EXISTING WALL / PARTITION
- FLOOR DRAIN (REF. PLUMB)

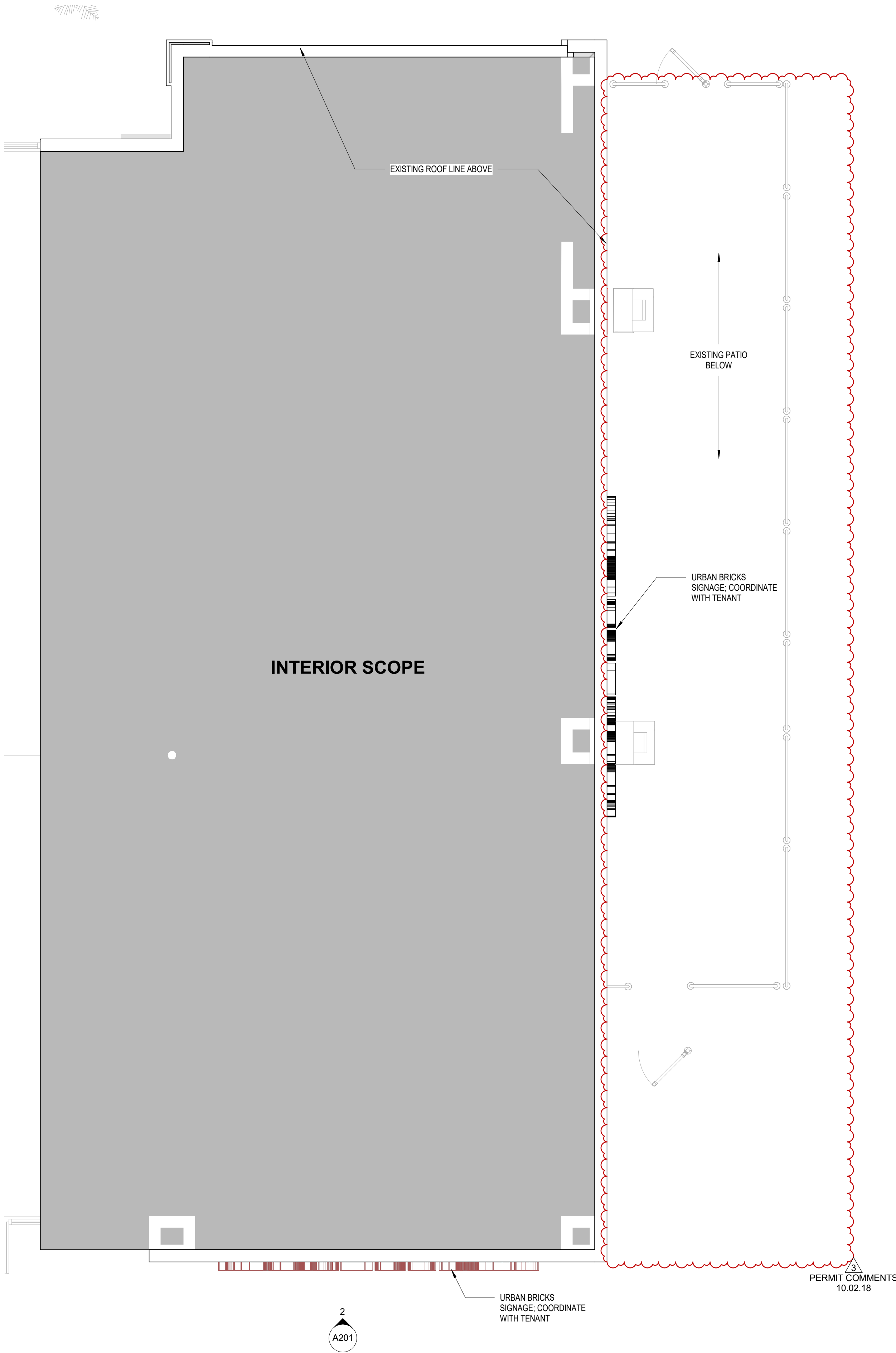
GENERAL NOTES:  
1. CONTRACTOR TO COORDINATE SPEAKER AND AV EQUIPMENT WITH OWNER.



1 FIRST FLOOR - FFE PLAN

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





**NOTE: ALL SIGNAGE TO BE PERMITTED SEPARATELY**

PERMIT COMMENTS  
10.02.18

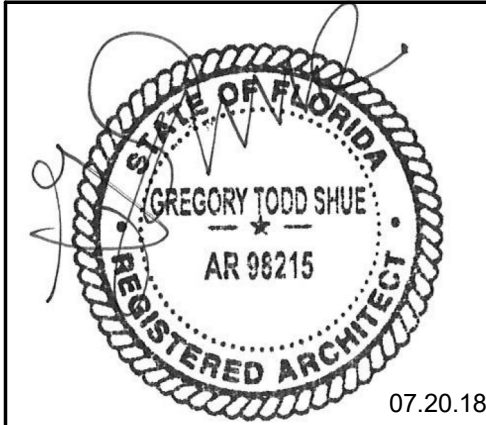
NOT USED

**2 CANOPY SECTION**

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

PERMIT COMMENTS  
10.02.18

GREG T. SHUE,  
ARCHITECT  
27134 Ranchland View  
Boerne, TX 78006



Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
3	PERMIT COMMENTS	10.02.18

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**URBAN BRICKS PIZZA CO. -  
VERO BEACH**  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: CG  
checked by: GS  
drawing title: **ROOF PLAN**








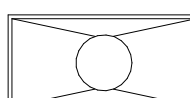
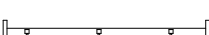

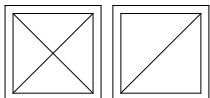
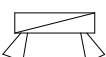
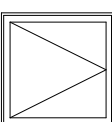


drawing number:

**A103**

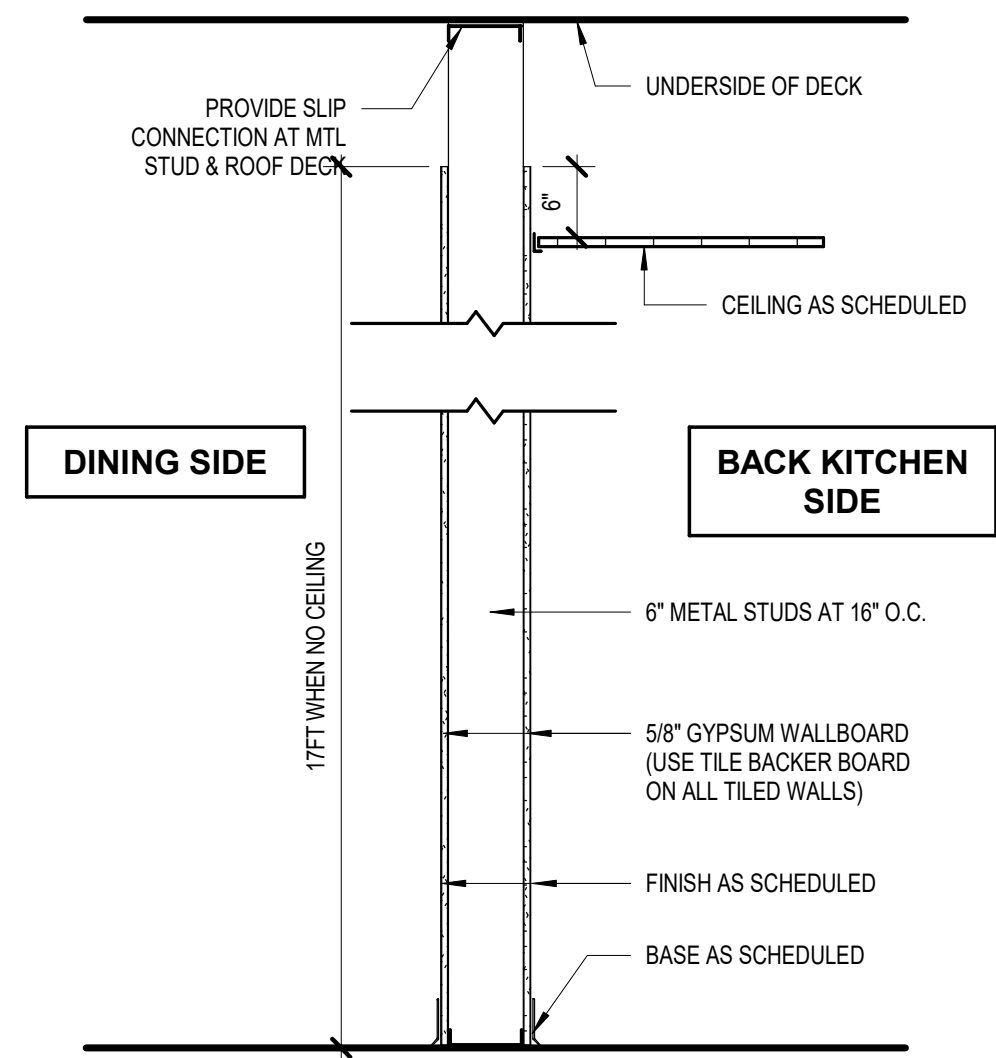




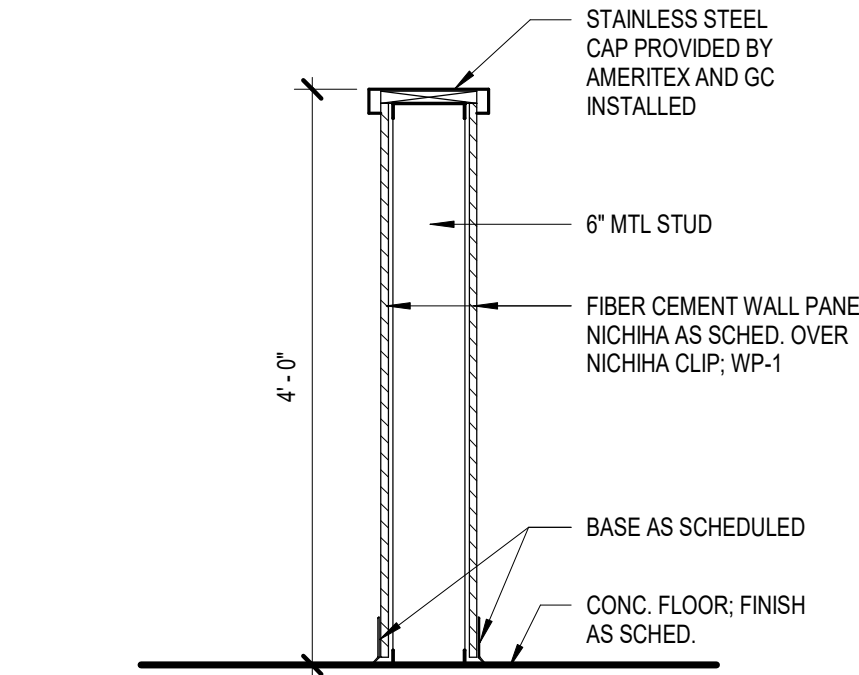
REFER TO MEP FOR FIXTURE SCHEDULE

	WALL SCONCE (REF. ELEC.)		LOW BAY LIGHT FIXTURE; SUSPENDED FROM STRUCTURE ABOVE, 12 A.F.F. (REF. ELEC.)
	RECESSED LIGHT FIXTURE (REF. ELEC.)		EDISON LIGHT PENDANT (REF. ELEC.)
	PENDANT LIGHT BULB FIXTURE; 10'-6" A.F.F. (REF. ELEC.)		2x4 SUSPENDED ACOUSTICAL CEILING
	GYP. BD CEILING CLOUD; FINISHED AS SCHED.		NEW 2X4 LIGHT FIXTURE (REF. ELEC.)
	TRACK LIGHTING (REF. ELEC.)		NEW TEAR DROP SPEAKER (REF. ELEC.); COORD. WITH TENANT
	MECH. TERMINALS (REF. MECH.)		EMERGENCY LIGHT FIXTURE (REF. ELEC.)
	NEW 2X2 ACCESS PANEL		STRING LIGHTS (REF. ELEC.)
			LED LINEAR LIGHT (REF. ELEC.)

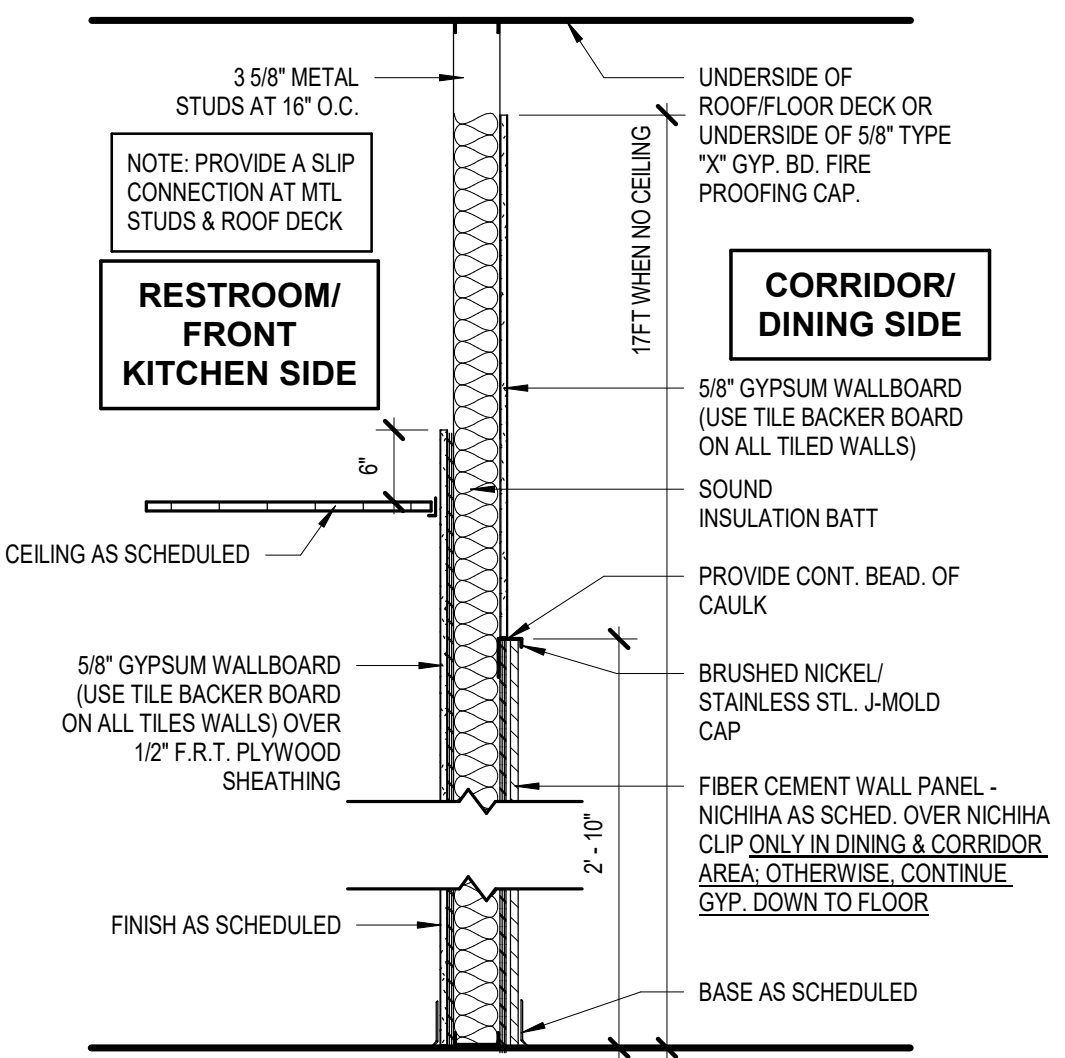




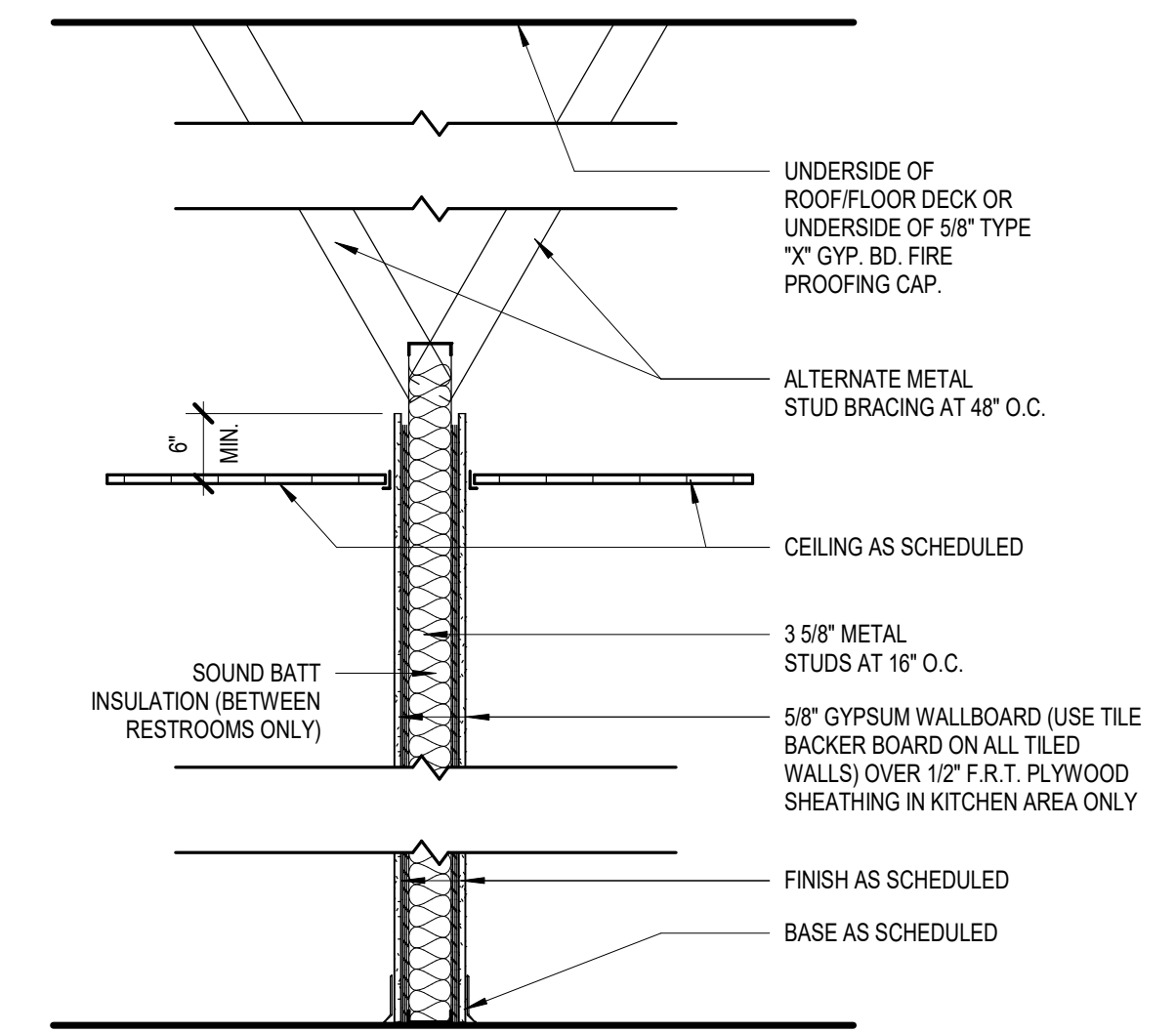
**A PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



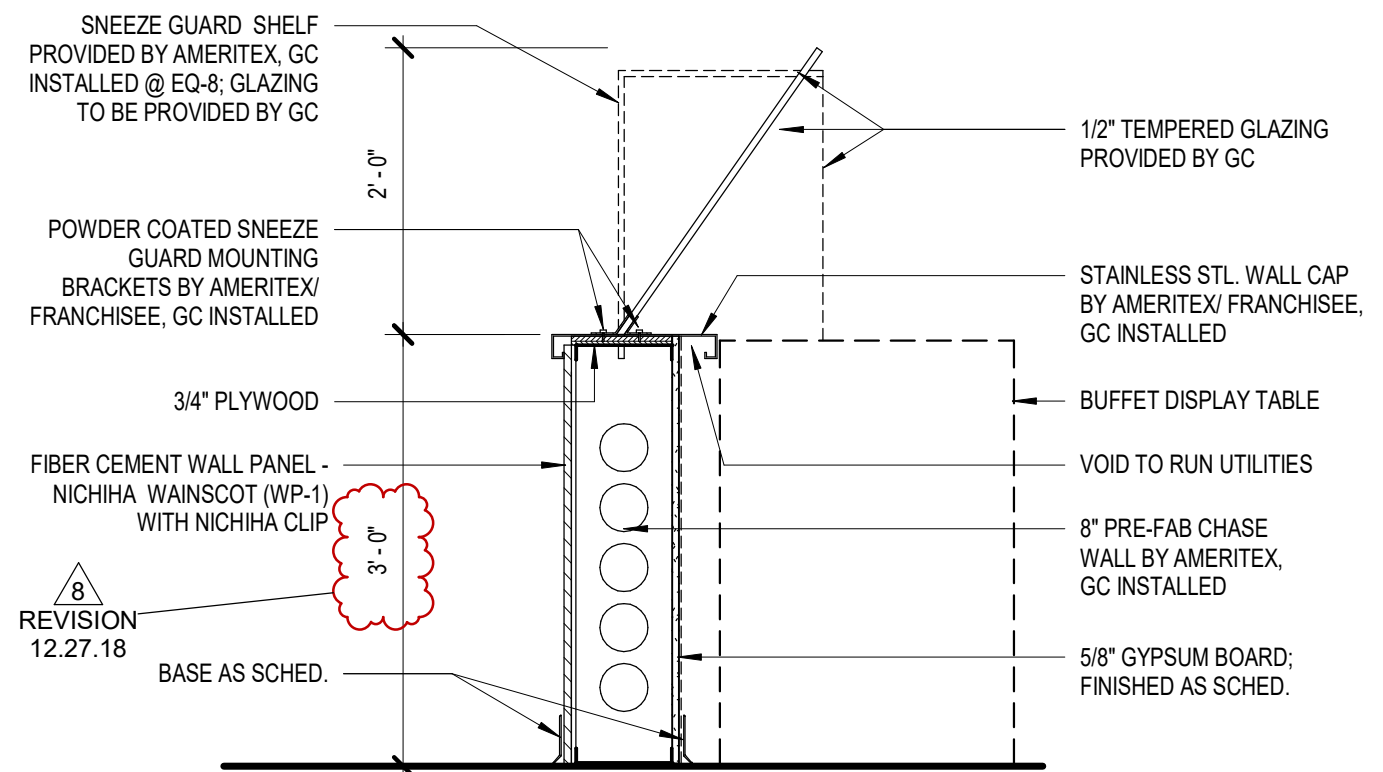
**B PARTITION TYPE**  
SCALE: 3/4" - 1'-0" PONY WALL



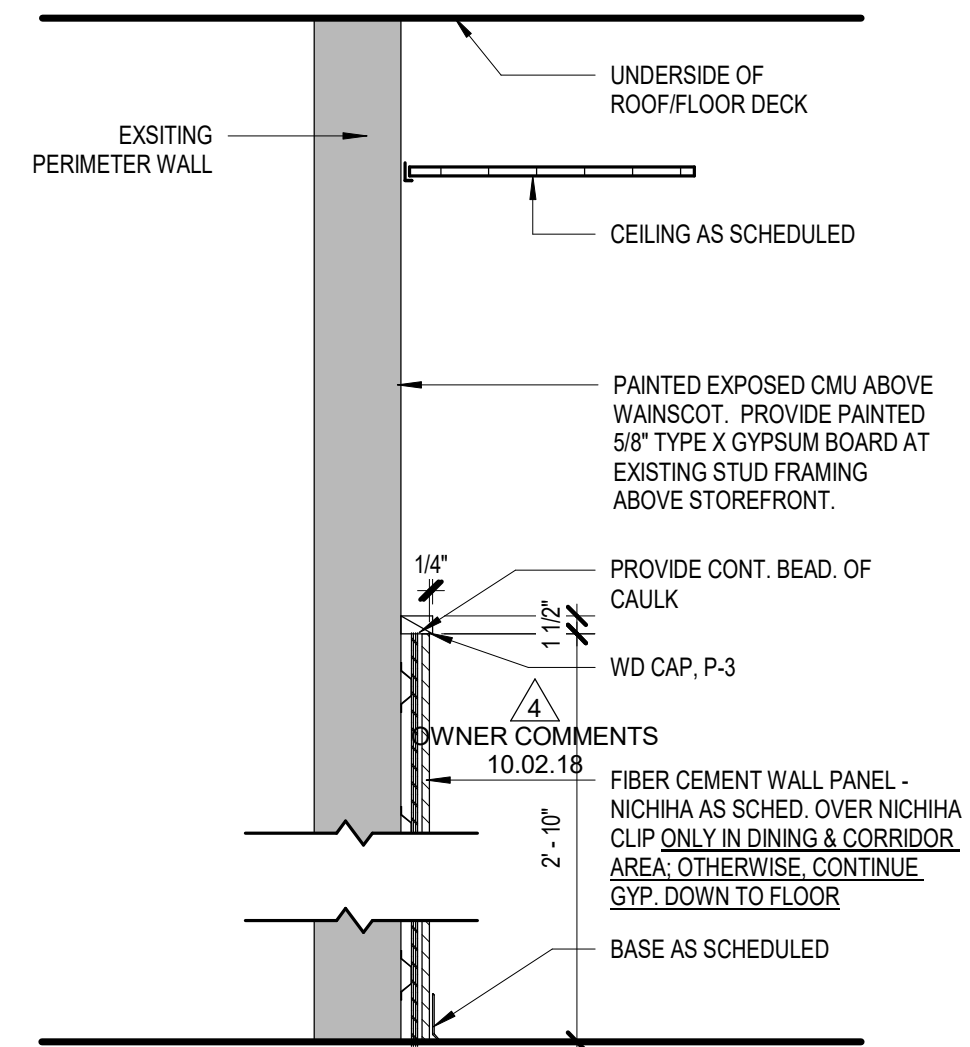
**C PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



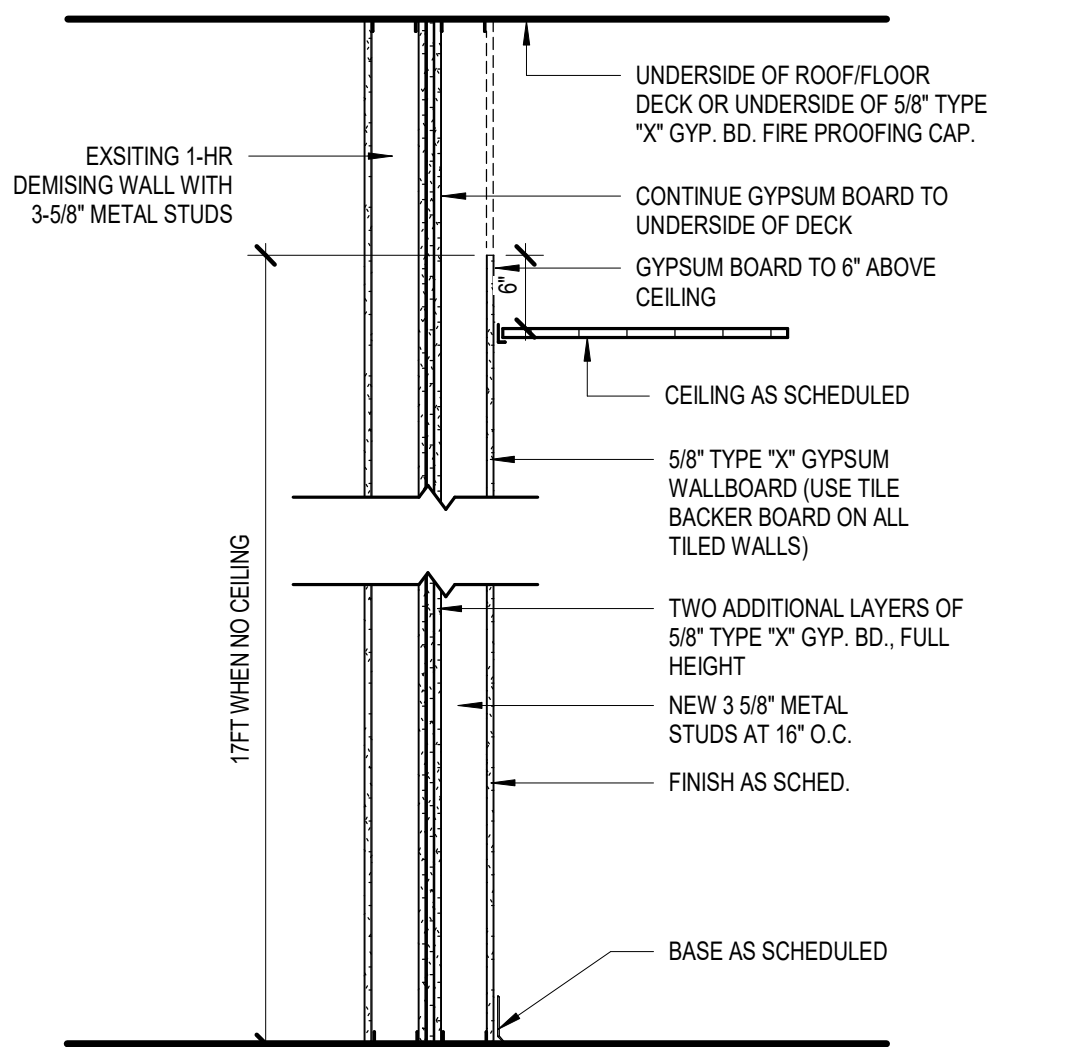
**C1 PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



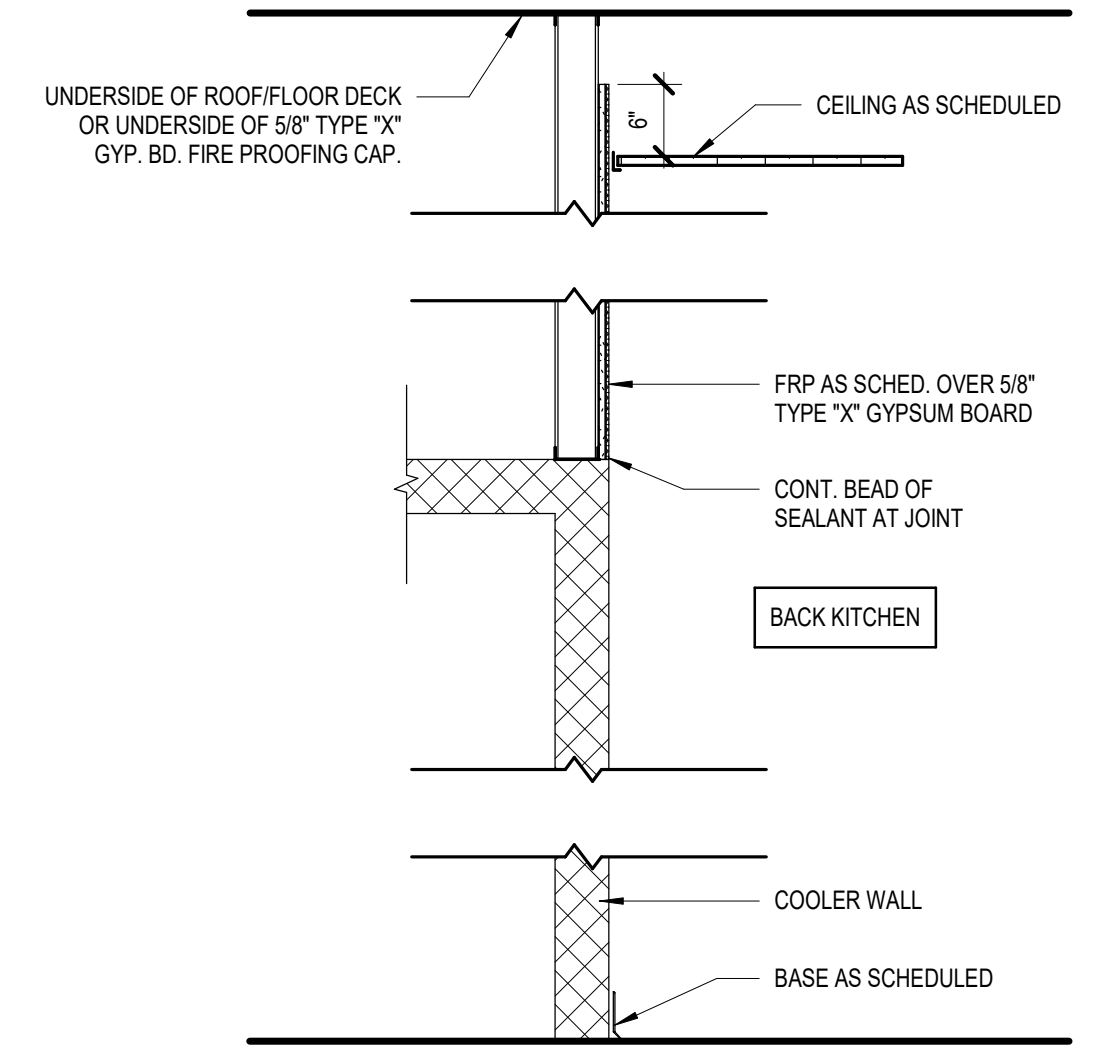
**E PARTITION TYPE**  
SCALE: 3/4" - 1'-0" QUEUING WALL



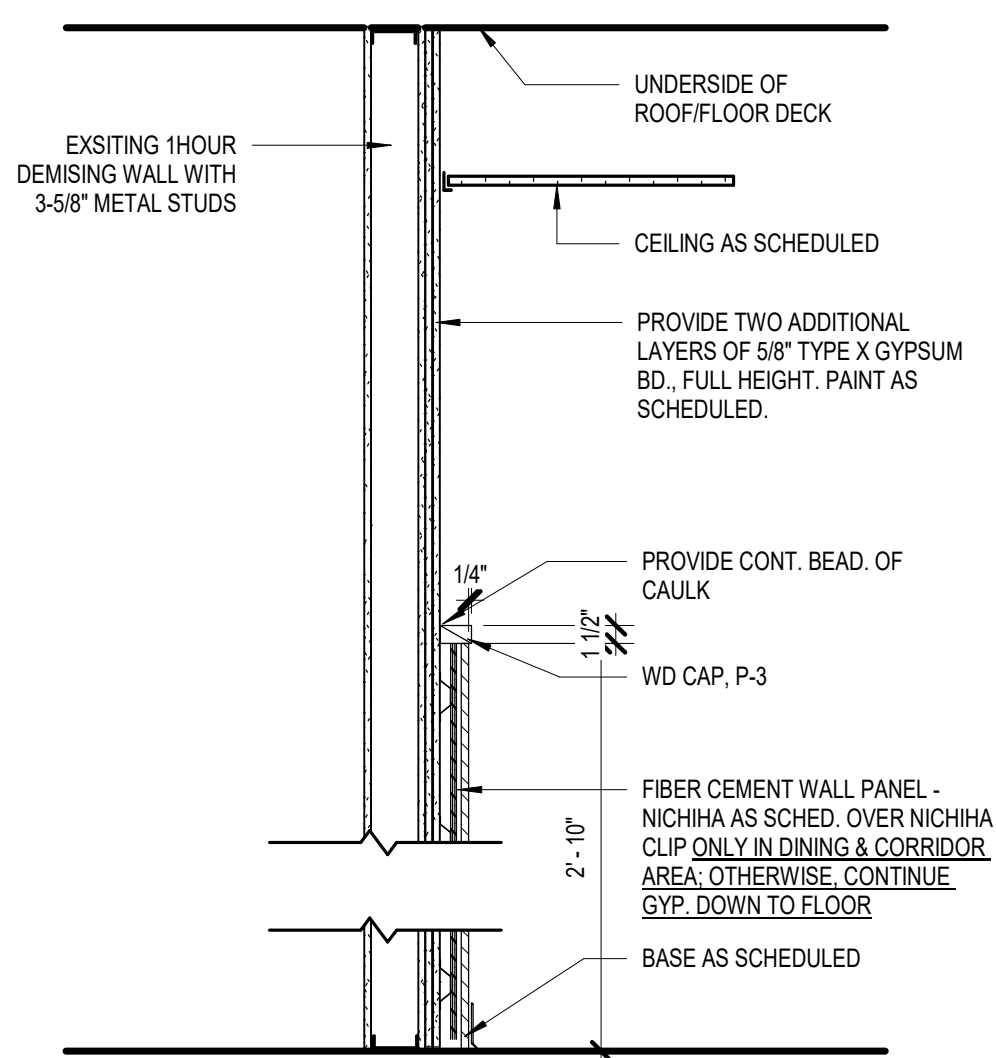
**F PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



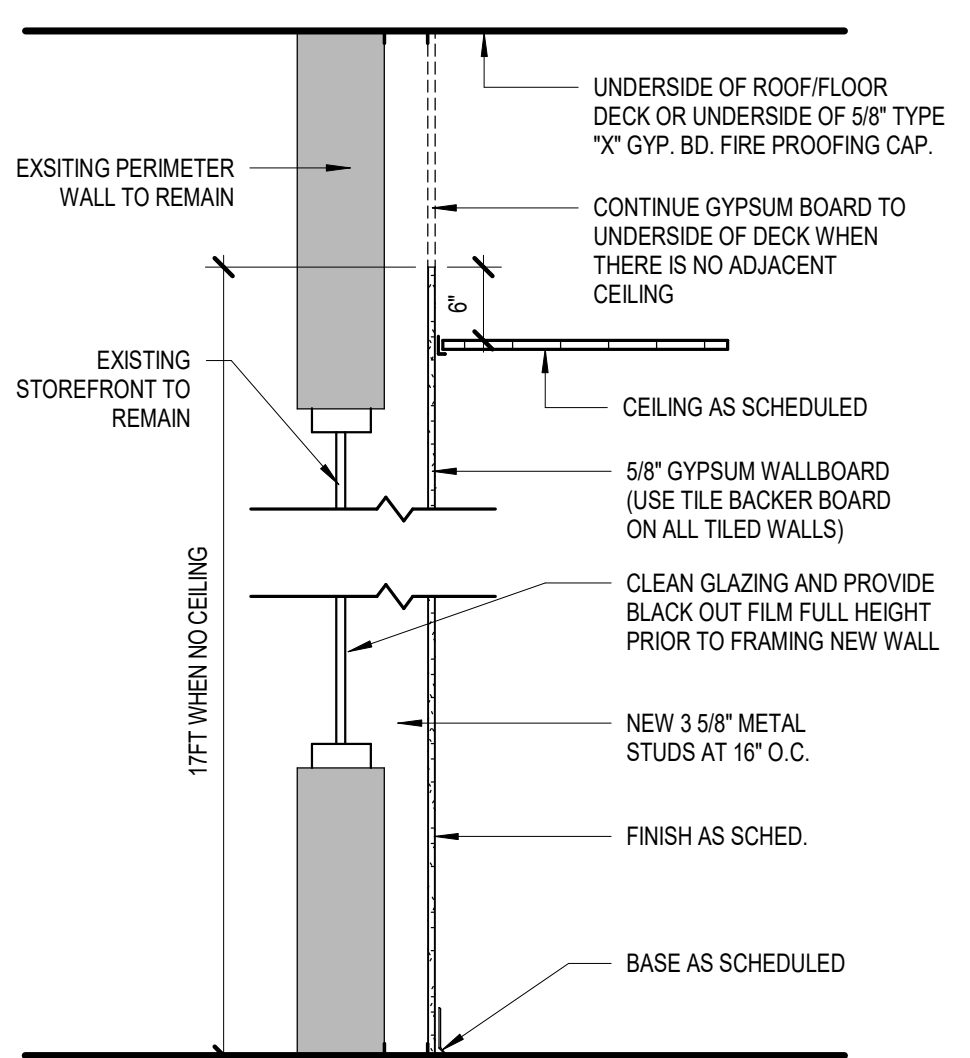
**F2 PARTITION TYPE**  
SCALE: 3/4" - 1'-0" 2-HR FIRE SEPARATION UL DESIGN : U408



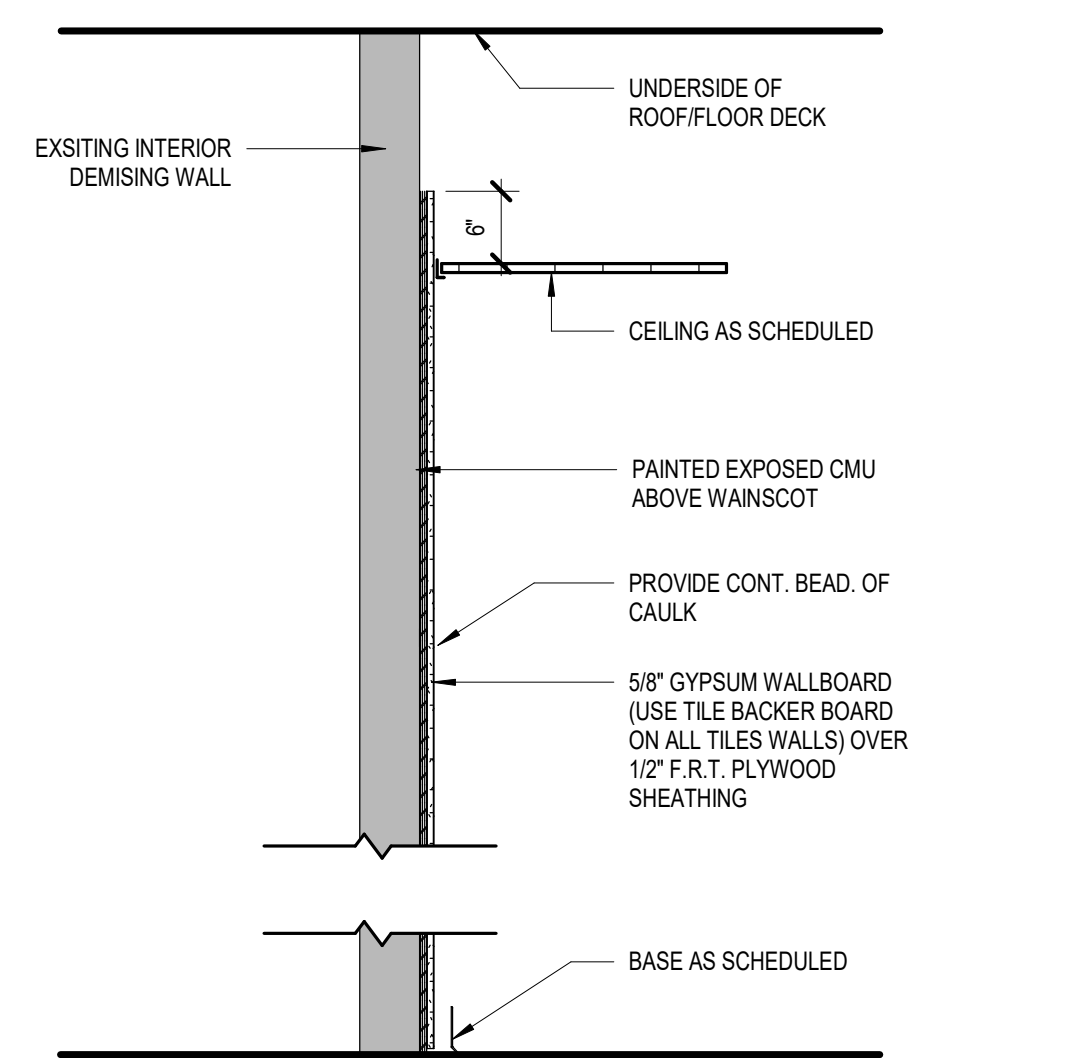
**G PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



**F1 PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



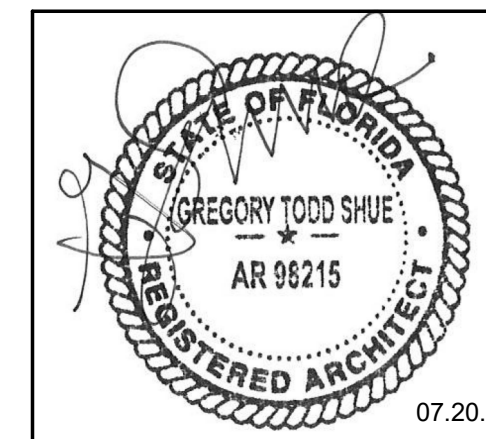
**F3 PARTITION TYPE**  
SCALE: 3/4" - 1'-0"



**F4 PARTITION TYPE**  
SCALE: 3/4" - 1'-0"

- PARTITION TYPE GENERAL NOTES:**
- ALL DRYWALL CONSTRUCTION SHALL BE THICKNESS OF 5/8", UNLESS NOTED OTHERWISE.
  - EVERY WALL SHOWN ON THE PLAN(S) SHALL BE ONE OF THE WALL TYPES SHOWN; WHETHER KEYED ON THE PLAN(S) OR NOT. IF WALL DOES NOT HAVE A KEY, PROVIDE A WALL TYPE TO MATCH ADJACENT OR NEAREST KEY.
  - SEE ROOM FINISH SCHEDULE FOR FINISHES.
  - SEAL ALL GAPS AND PENETRATIONS IN FIRE RATED WALLS WITH FIRE RATED BLANKETS AND/OR SEALANTS.
  - ALL EXPOSED WALLS THAT ARE PERPENDICULAR TO ROOF DECK SHOULD BE SEALED TIGHT TO UNDERSIDE OF DECK.
  - ALL SOUND WALLS TO RECEIVE SEALANT AROUND CRACKS, GAPS, EDGES AT FLOOR, CEILING AND JUNCTION BOXES.
  - WHERE WALLS ARE CALLED TO EXTEND TO UNDERSIDE OF DECK, ALIGN WALL(S) WITH STRUCTURE ABOVE AND/OR WRAP STRUCTURE WITH DRYWALL.
  - SEAL ALL GAPS, CRACKS AND PENETRATIONS THROUGHOUT WALLS.
  - ALL LOAD BEARING STUDS TO BE 14 GAUGE.
  - FOR HEIGHTS OF WALLS SEE BUILDING SECTIONS AND/OR ELEVATIONS.
  - PROVIDE 1/2" CEMENTITIOUS BACKER BOARD IN LIEU OF 5/8" GYPSUM BOARD AT WALLS BEHIND ALL CERAMIC TILE.
  - SEE SPECIFICATIONS OR NOTES FOR GAUGES OF NON-LOAD BEARING WALLS.
  - ALL 5/8" TYPE "X" GYPSUM BOARD SHALL BE COATED INORGANIC GLASS MAT-FACED, WATER-RESISTANT TREATED GYPSUM CORE WALLBOARD.
  - CONTRACTOR TO PROVIDE MOISTURE-RESISTANT GWB FOR WALLS IN ALL WET AREAS.
  - CONTRACTOR TO PROVIDE LEVEL 5 DRYWALL FINISH AT ALL WALLS TO RECEIVE PAINTED FINISH.
  - CONTRACTOR TO PROVIDE 1/2" F.R.T. PLYWOOD SHEATHING BEHIND DRYWALL IN ALL BACK KITCHEN WALLS AND OTHER WALLS WHERE MOUNTING EQUIPMENT/ SHELVES.
  - ALL PLYWOOD BACKING & BLOCKING WITHIN WALLS MUST BE FIRE RETARDANT TREATED (F.R.T.)

GREG T. SHUE,  
ARCHITECT  
27134 Ranchland View  
Boerne, TX 78006



Revisions		
Number	Description	Date
2	ADD #1	08.29.18
4	OWNER COMMENTS	10.02.18
5	PERMIT COMMENT	10.18.18
8	REVISION	12.27.18

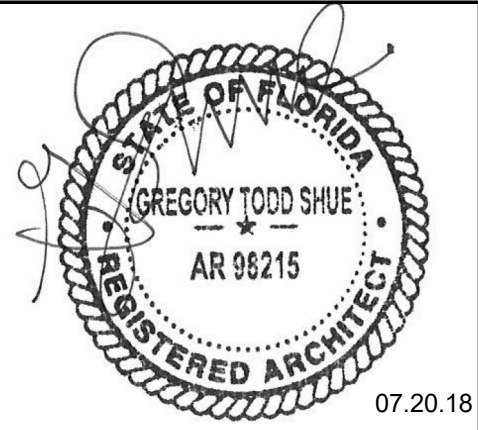
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URBAN BRICKS PIZZA CO. -  
VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: CG  
checked by: GS  
drawing title: PARTITION TYPES  
drawing number:

A130





Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
3	PERMIT COMMENTS	10.02.18

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URBAN BRICKS PIZZA CO. -  
VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138

date: 07.20.18

drawn by: CG  
checked by: GS

drawing title:  
EXTERIOR ELEVATIONS

drawing number:

A201

NOTE: ALL SIGNAGE TO BE  
PERMITTED SEPARATELY

PERMIT COMMENTS  
10.02.18

URBAN BRICKS SIGNAGE  
PROVIDED & INSTALLED BY  
APEX SIGN GROUP. COORD.  
LOCATION WITH FUTURE NEW  
CANOPY

EXIST. STOREFRONT  
DOORS TO REMAIN

PERMIT COMMENTS  
10.02.18

EXIST. STOREFRONT & DOORS  
REMAIN (GRAY) PROTECT AS REQ'D  
DURING CONSTRUCTION

PERMIT COMMENTS  
10.02.18

3 EAST ELEVATION W/O CANOPY

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

NOT USED

1 EAST ELEVATION

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

URBAN BRICKS SIGNAGE  
PROVIDED & INSTALLED BY  
APEX SIGN GROUP

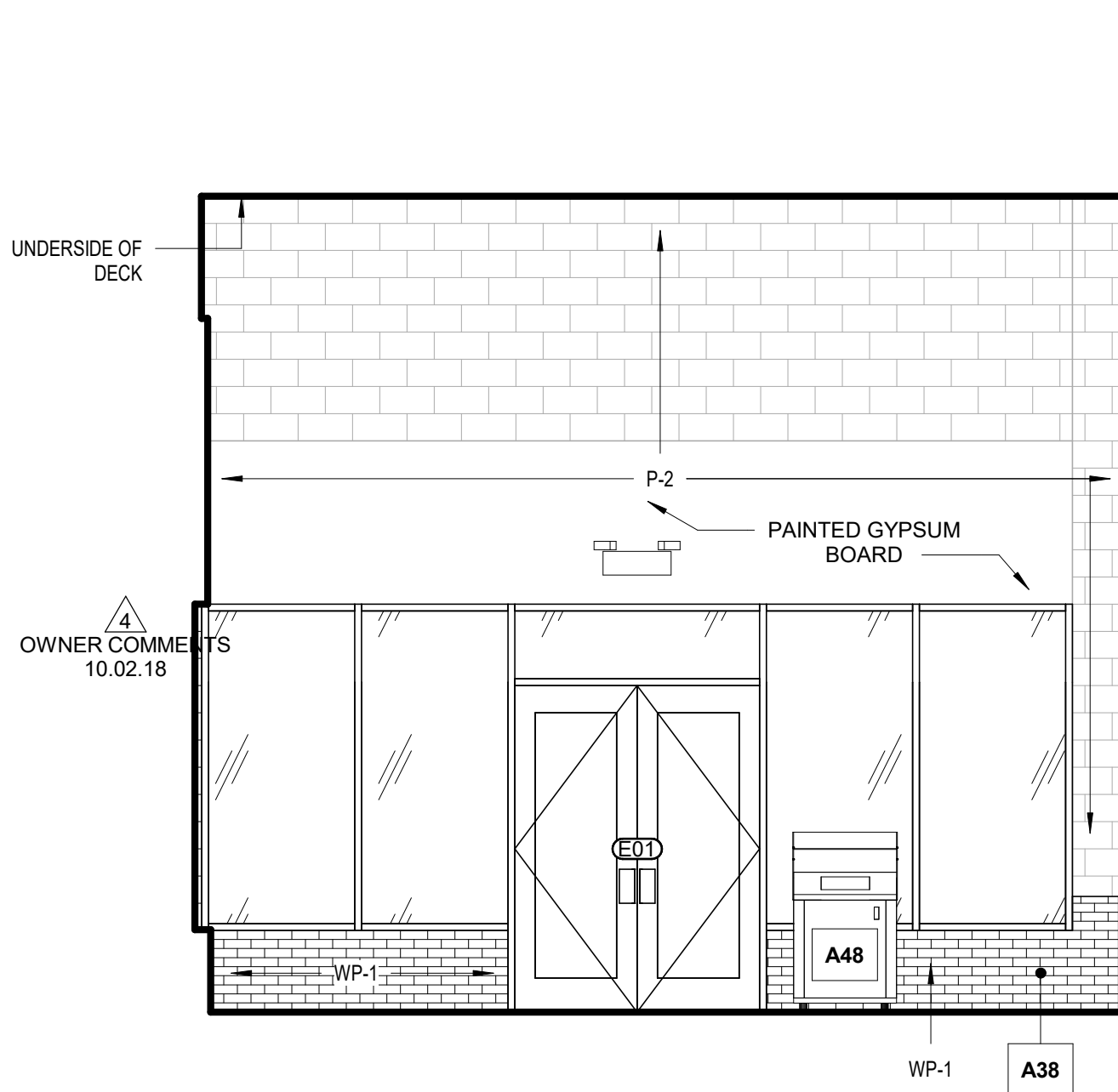
EXIST. STOREFRONT & DOORS  
REMAIN. PROTECT AS REQ'D  
DURING CONSTRUCTION

PERMIT COMMENTS  
10.02.18

2 SOUTH ELEVATION

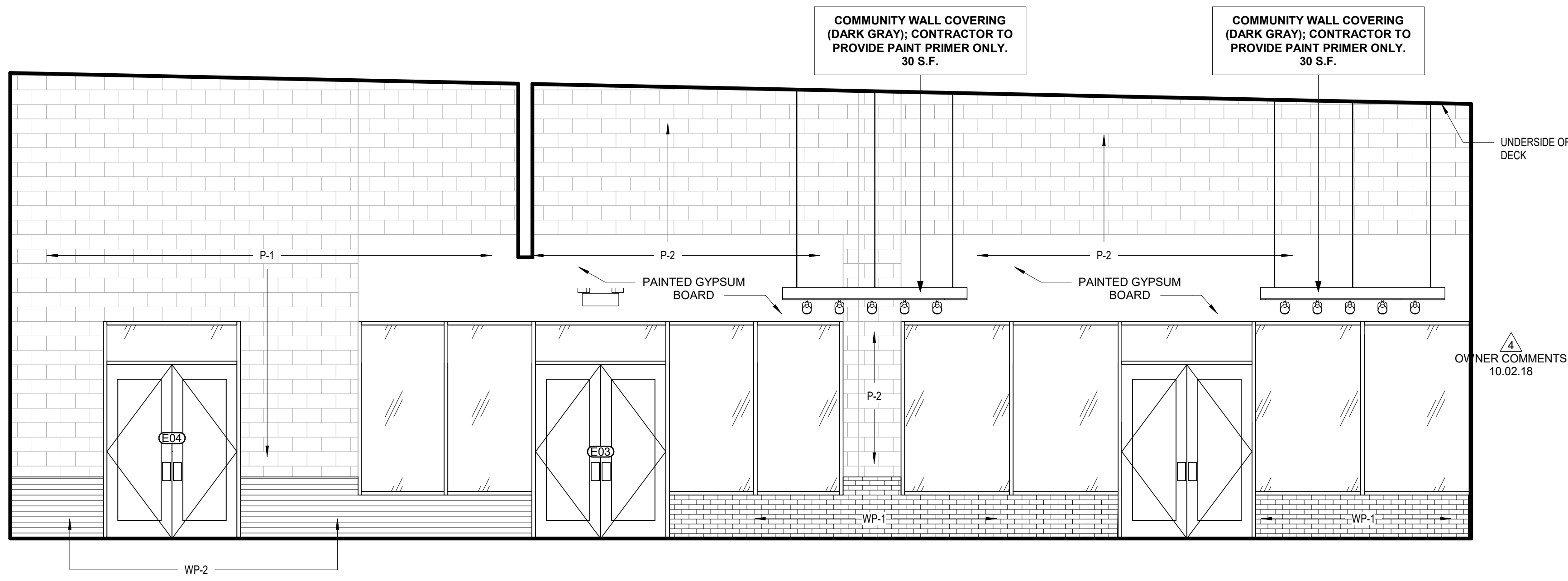
SCALE: 1/4" = 1'-0"





1 DINING ELEVATION - A

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

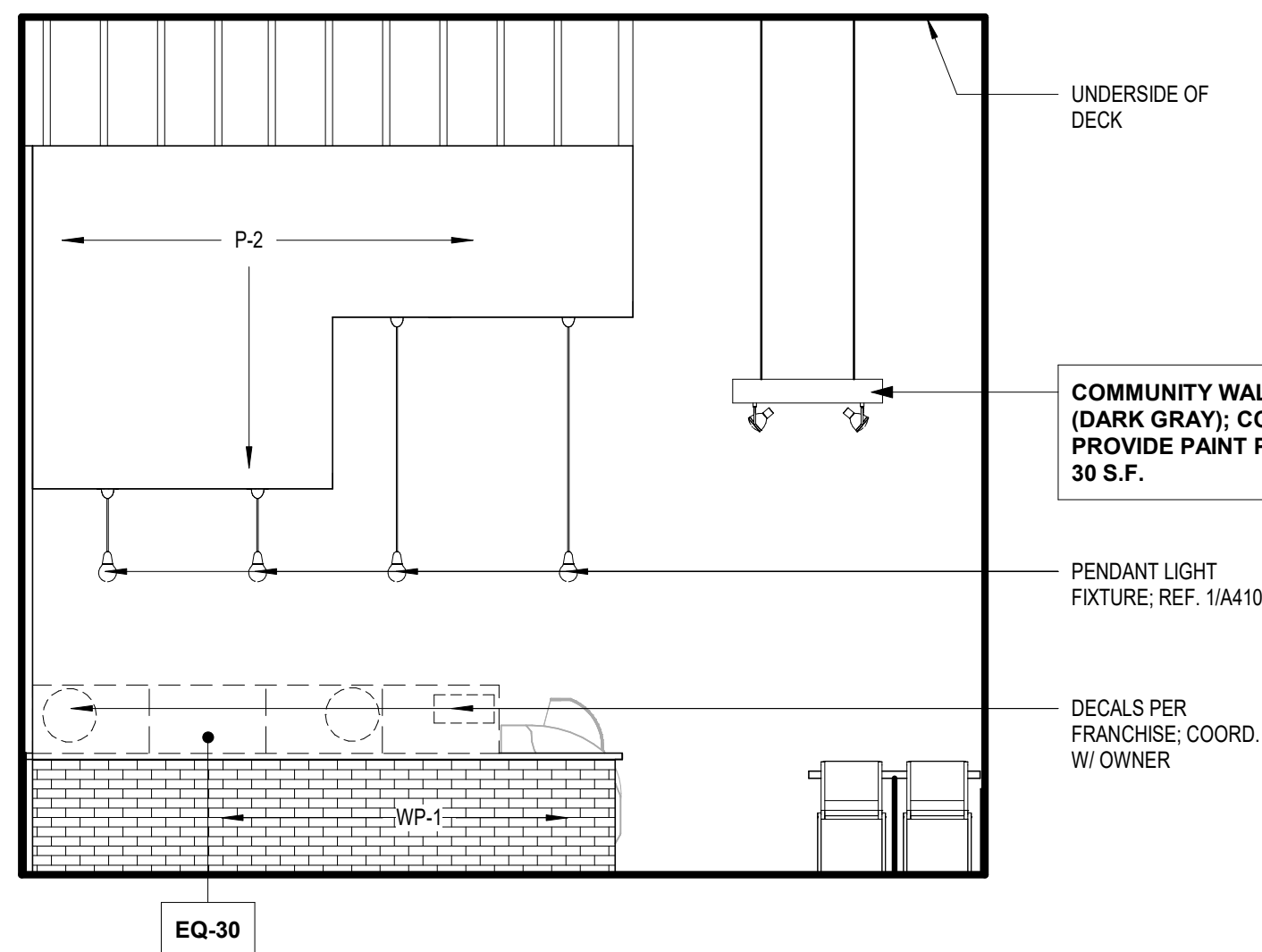


2 DINING ELEVATION - B

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

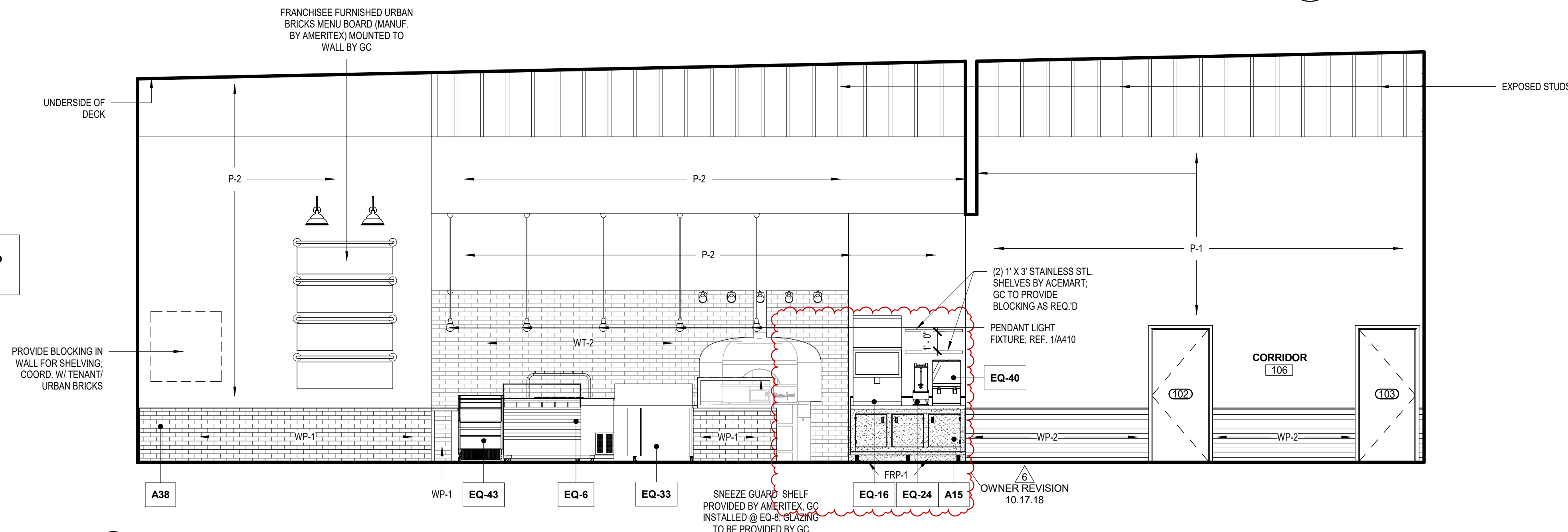
3 KITCHEN WALL TILE PATTERN

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



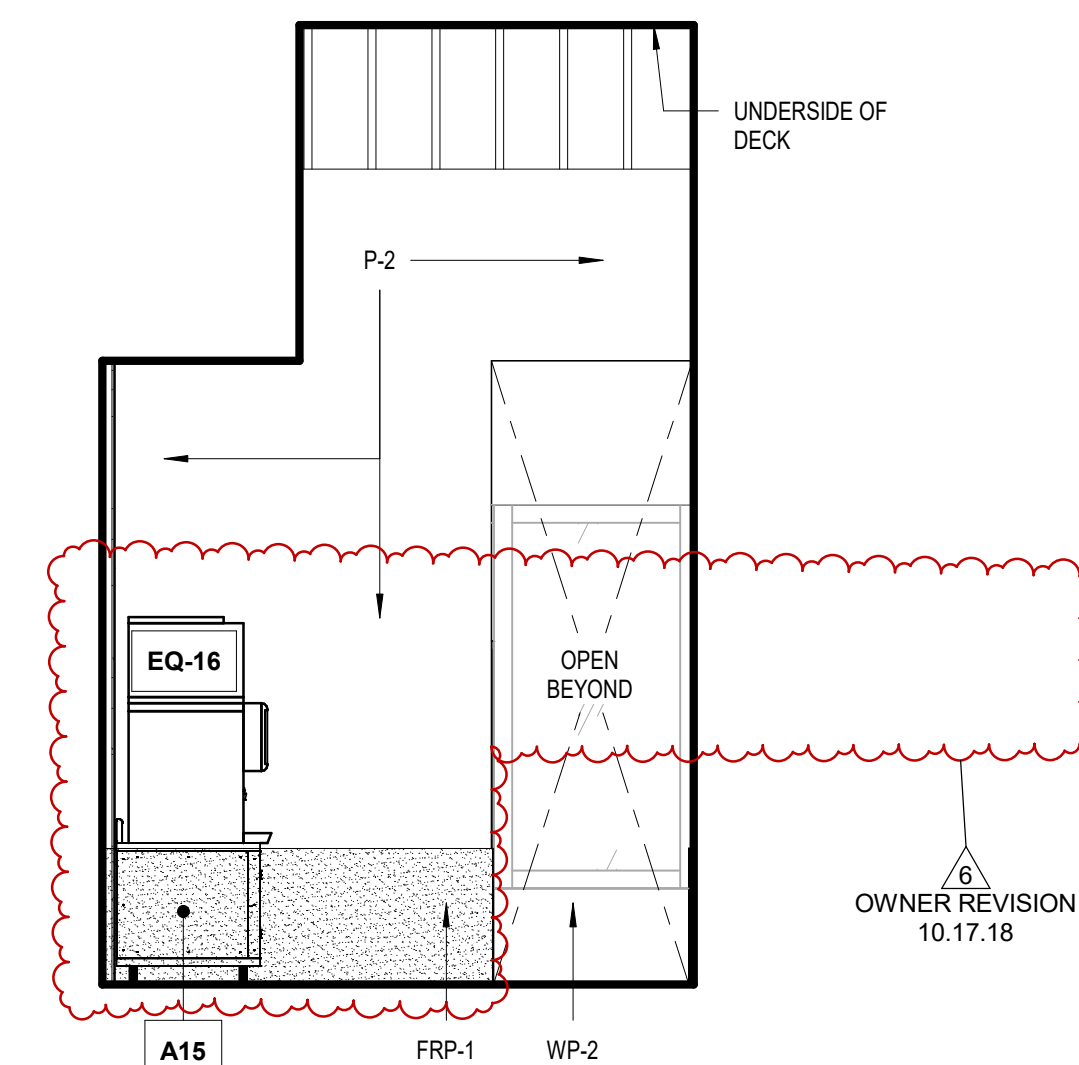
4 QUEUING ELEVATION

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



5 QUEUING, FRONT LINE & CORRIDOR ELEVATION

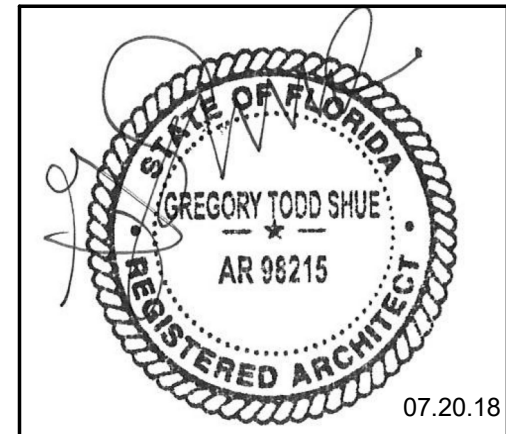
SCALE: 1/4" = 1'-0"



6 SODA STATION

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

GREG T. SHUE,  
ARCHITECT  
27134 Ranchland View  
Boerne, TX 78006



Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
4	OWNER COMMENTS	10.02.18
6	OWNER REVISION	10.17.18

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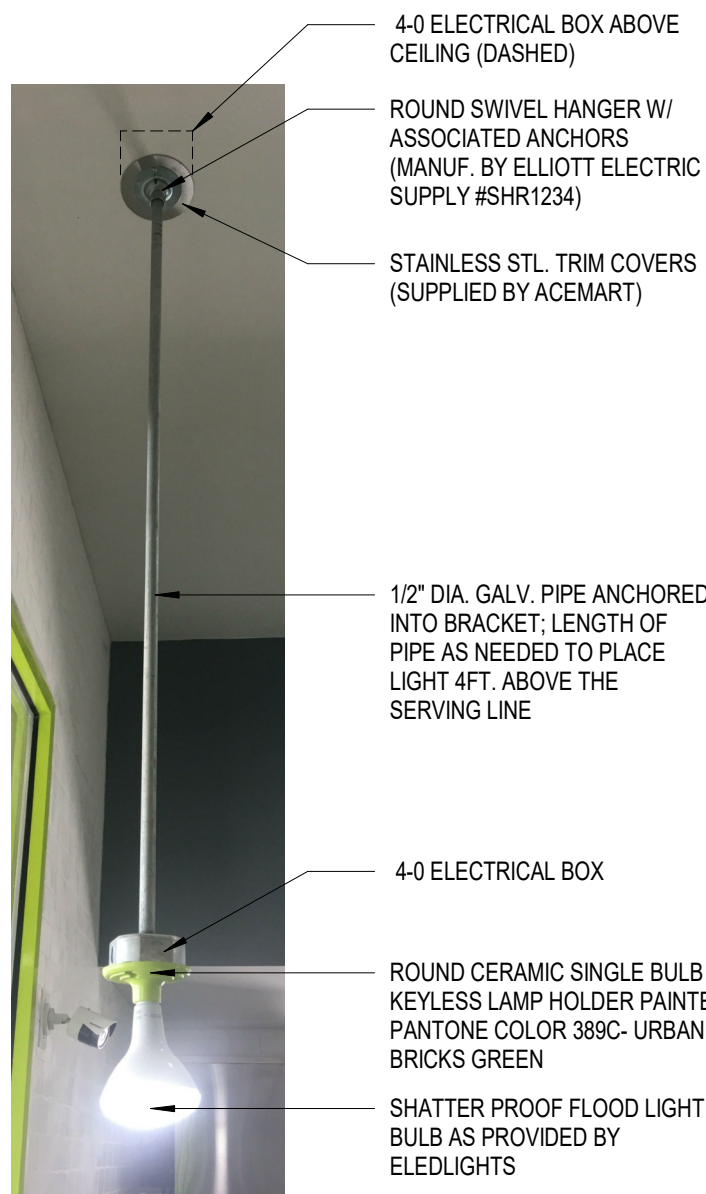
URBAN BRICKS PIZZA CO. -  
VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: CG  
checked by: GS  
drawing title: INTERIOR ELEVATIONS

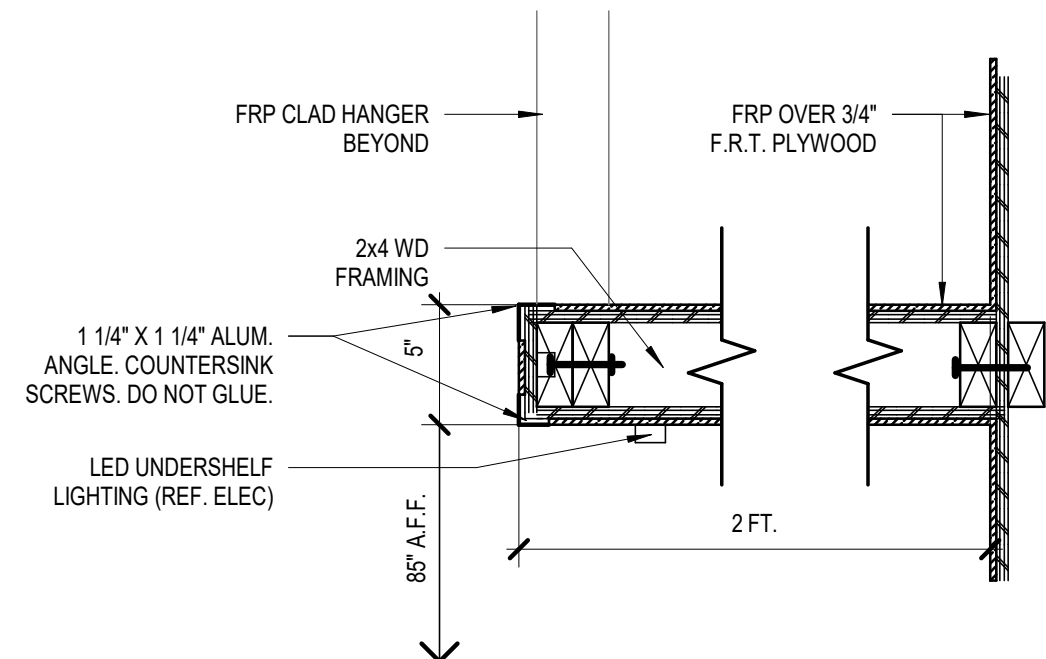
drawing number:

A401

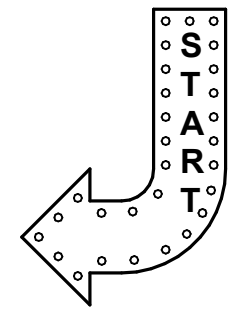




1 TYP. PENDANT FIXTURE DTL  
SCALE: 1/4" = 1'-0"

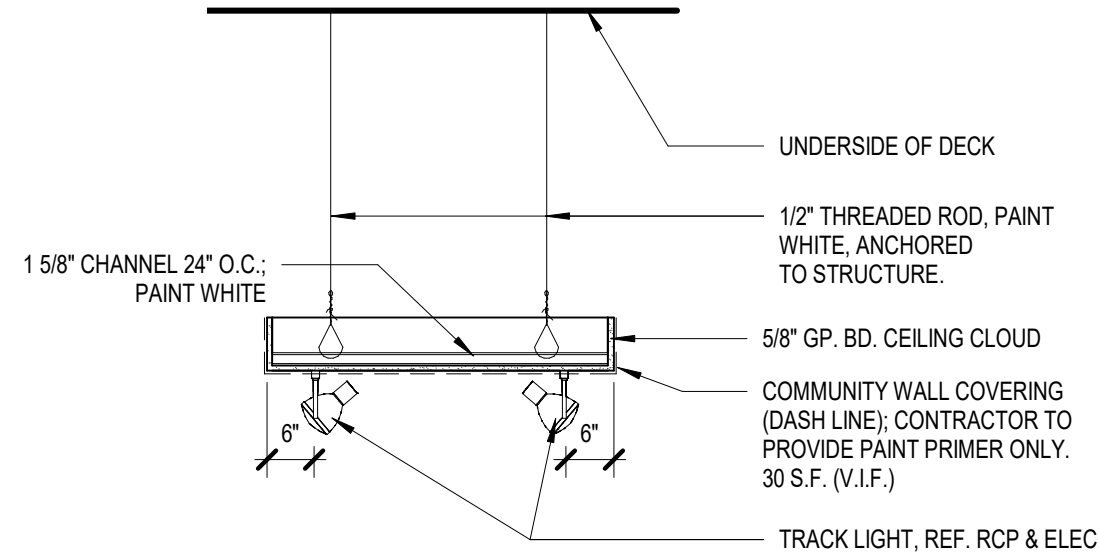


2 STORAGE SHELF DETAIL  
SCALE: 1 1/2" = 1'-0"



NOTE:  
SIGN TO BE PROVIDED AND  
INSTALLED BY APEX SIGN  
GROUP

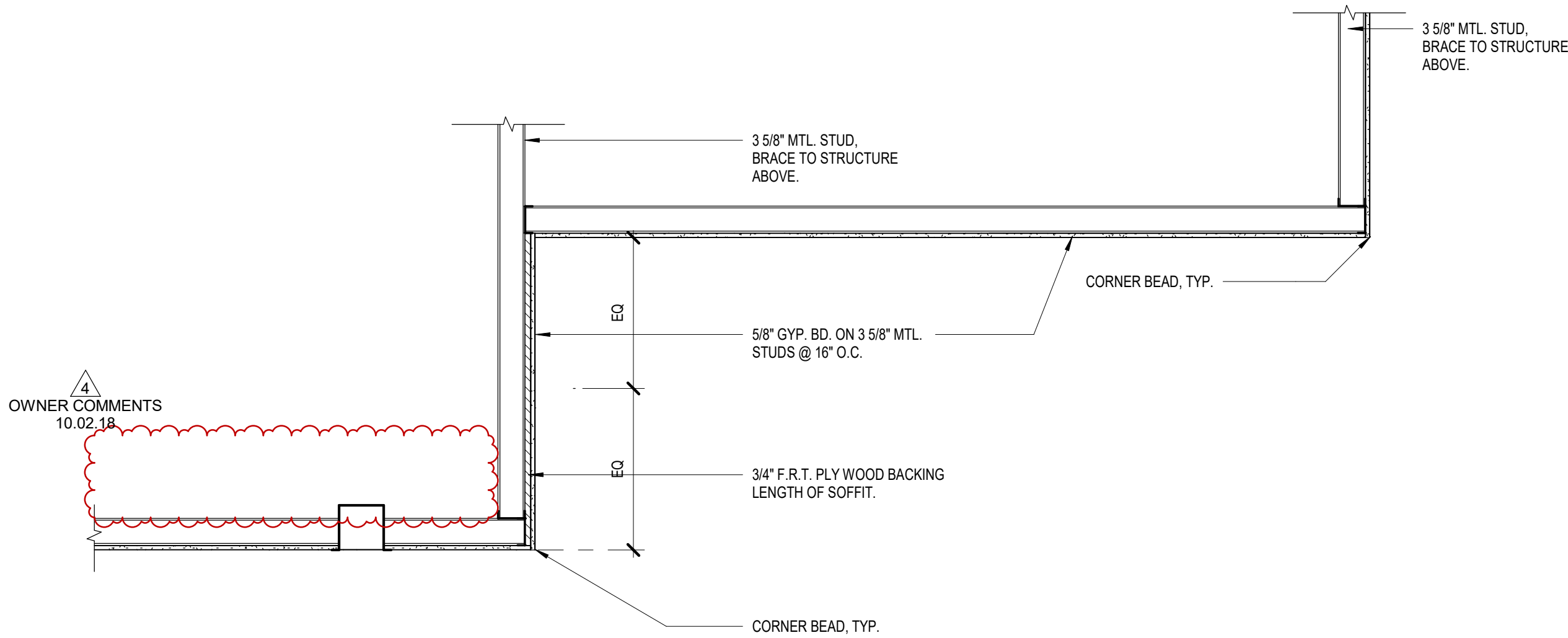
3 QUEUE ARROW  
SCALE: 1/2" = 1'-0"



4 TYP. CLOUD CEILING  
SCALE: 1/2" = 1'-0"

NOT USED

5 TYPICAL METAL BASE  
SCALE: 12" = 1'-0"



6 SOFFIT SECTION  
SCALE: 3/4" = 1'-0"

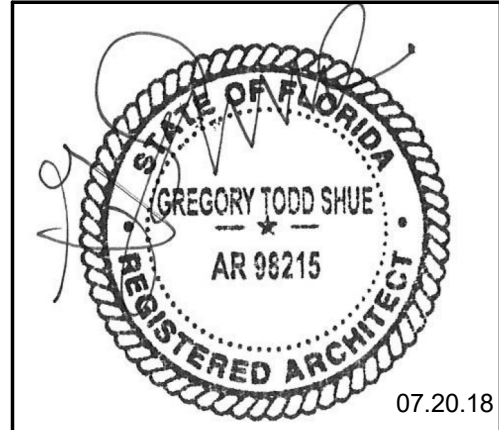


FLUE CEILING TRIM  
PROVIDED BY ACEMART,  
INSTALLED BY GC

PIZZA OVEN & VENTILATION  
DUCTWORK, PROVIDED BY  
FRANCHISEE, INSTALLED BY  
CONTRACTOR

GREEN MOSAIC 1X1 GLASS TILE TO  
BE INSTALLED BY MANUFACTURER  
WITH 1/8\"/>

7 PIZZA OVEN DETAIL  
SCALE: 6\"/>



Revisions		
Number	Description	Date
4	OWNER COMMENTS	10.02.18

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project #:	18.138
date:	07.20.18
drawn by:	CG
checked by:	GS
drawing title:	MILLWORK DETAILS

drawing number:



DOOR SCHEDULE										
DOOR NO.	TYPE	DOOR			MATERIAL	FINISH	HARDWARE	FRAME		COMMENTS
		WIDTH	SIZE HEIGHT	THICKNESS				MATERIAL	FINISH	
102	A	3' - 0"	7' - 0"	1 3/4"	Wood - Solid Core Wood Door	P-1	TUBULAR LOCKSET & CLOSER	H.M.	P-4	
103	A	3' - 0"	7' - 0"	1 3/4"	Wood - Solid Core Wood Door	P-1	TUBULAR LOCKSET & CLOSER	H.M.	P-4	
E01	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST, PULL/ PUSH HARDWARE VERIFY LOCKSET & CLOSER	EXIST	EXIST	
E02	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST, PULL/ PUSH HARDWARE VERIFY LOCKSET & CLOSER	EXIST	EXIST	
E03	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST, PULL/ PUSH HARDWARE VERIFY LOCKSET & CLOSER	EXIST	EXIST	
E04	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST, PULL/ PUSH HARDWARE VERIFY LOCKSET & CLOSER	EXIST	EXIST	

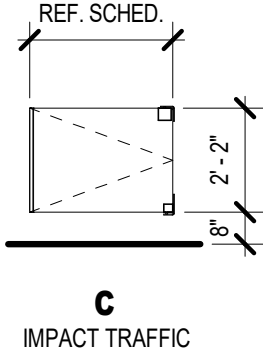
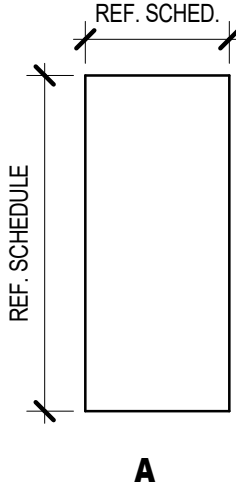
\* PATIO GATE HARDWARE  
TO HAVE NO LATCHING  
MECHANISM

PERMIT COMMENTS  
10.02.18

OWNER REVISION  
10.17.18

DOOR AND WINDOW GENERAL NOTES:

1. INSTALL TEMPERED OR SAFETY GLASS IN OPENINGS WHERE REQUIRED BY CODE.
2. SET WINDOW SUBSILLS IN CONTINUOUS BEAD OF SEALANT.
3. TURN SUBSILLS AND FLASHING MEMBRANE UP AT JAMBS (6" MINIMUM) TO FORM END DAMS.
4. SPACE ANCHORS OF DOOR AND WINDOW FRAMES NO MORE THAN 16" O.C.
5. INSTALL ONE WINDOW FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO PROCEEDING.
6. VERIFY HEAD HEIGHTS OF OPENINGS ON THE EXTERIOR AND INTERIOR ELEVATIONS. INFORM THE ARCHITECT OF DISCREPANCIES PRIOR TO PROCEEDING.



NOT USED

DOOR TYPES

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

WINDOW TYPES 1

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

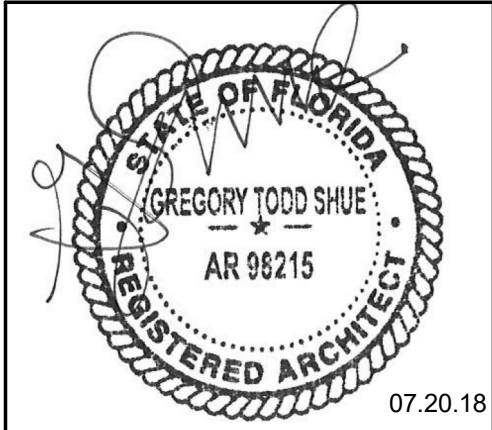
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ROOM FINISH SCHEDULE					
RM. NO.	ROOM NAME	FLOORING		CEILING	REMARKS
		FINISH	BASE	FINISH	
101	DINING	PC-1	WB-3	P-2	BASE PAINTED BLACK
102	FRONT KITCHEN	FA-1	FA-1	P-2	INTEGRAL EPOXY COVE BASE
103	BACK KITCHEN	FA-1	FA-1	CT-1	INTEGRAL EPOXY COVE BASE
104	WOMEN'S	PC-1	-	P-1	MARLITE PVC TRIM AND BASE; PROVIDE CAULK SEALANT @ JOINTS
105	MEN'S	PC-1	-	P-1	MARLITE PVC TRIM AND BASE; PROVIDE CAULK SEALANT @ JOINTS
106	CORRIDOR	PC-1	WB-3	P-1	BASE PAINTED BLACK
107	PATIO				
201	DRY STORAGE	F.R.T. PLYWD DECK	-	P-1	MARLITE PVC TRIM AND BASE; PROVIDE CAULK SEALANT @ JOINTS

NOTE: CONTRACTOR TO PROVIDE  
MOISTURE-RESISTANT GWB FOR  
WALLS & HARD CEILINGS IN ALL  
WET AREAS.

MATERIAL FINISH SCHEDULE							
NO.	MATERIAL	MANUFACTURER	DESCRIPTION	MODEL	COLOR	NOTES	CATEGORY
01_FLOOR FINISH							
PC-1	POLISHED CONCRETE	PERMAPRO	SEAL W/ NONSLIP SEALANT		GREY TL	DINING, CORRIDOR, RESTROOMS	01_FLOOR FINISH
FA-1	FLUID APPLIED FLOORING		EPOXY FLOORING W/ COLORED FLAKE		GRAY	W/ INTEGRAL COVE BASE; SUBMIT FOR OWNER APPROVAL	01_FLOOR FINISH
02_WALL BASE							
WB-1	METAL WALL BASE		GYP. WALLS IN DINING			4"; REF. 5/A410	02_WALL BASE
WB-2	PORCELAIN TILE COVE BASE	LOCAL LOWES DEPT. STORE	WHERE WT-2 INSTALLED	AMERICAN OLEAN STARTING LINE	SL10S3419TCCBP - WHITE GLOSS CERAMIC; LOWES ITEM# 738	CONTRACTOR TO CALCULATE AMOUNT NEEDED PRIOR TO ORDERING FROM LOCAL LOWES DEPART. STORE; GROUT COLOR: PROSPEC LIMESTONE 39	02_WALL BASE
WB-3	PVC BOARD BASE		1x4		PAINTED W/ 100% ACRYLIC LATEX - BLACK	INSTALLED AT NICHHA WAINSCOT	02_WALL BASE
03_WALL FINISH							
FRP-1	FIBER REINFORCED PANELS	MARLITE	BACK KITCHEN WALLS, FRONT KITCHEN HALF WALLS (KITCHEN SIDE), STORAGE WALLS, RESTROOM WAINSCOT, WAINSCOT BEHIND AND ADJACENT TO SODA STATION	STANDARD FRP	S 100/2/S WHITE 182810		03_WALL FINISH
P-1	FIELD PAINT / CEILING PAINT	SHERWIN WILLIAMS	CEILING TO BE SATIN, WALLS TO BE SEMI GLOSS	SW 7006	EXTRA WHITE		03_WALL FINISH
P-2	ACCENT PAINT	SHERWIN WILLIAMS	CEILING TO BE STAIN, WALLS TO BE SEMI GLOSS	SW 7074	SOFTWARE		03_WALL FINISH
P-3	ACCENT PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 6258	TRICORN BLACK		03_WALL FINISH
P-4	ACCENT PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 6918	HUMOROUS GREEN	EXPOSED HVAC DUCTWORK, RESTROOM DOOR TRIM, CANOPY COLUMNS	03_WALL FINISH
WT-2	SUBWAY TILE	LOCAL LOWES DEPT. STORE	FRONT KITCHEN	AMERICAN OLEAN STARTING LINE	SL1036MODHC1P4 - WHITE GLOSS CERAMIC; LOWES ITEM#: 64396	CONTRACTOR TO CALCULATE AMOUNT NEEDED PRIOR TO ORDERING FROM LOCAL LOWES DEPART. STORE; CHEVRON PATTERN; GROUT COLOR: PROSPEC LIMESTONE 39	03_WALL FINISH
WD-1	PLYWOOD PANELS		1/4" BIRCH PLYWOOD		ST-1		03_WALL FINISH
ST-1	WOOD STAIN	SHERWIN WILLIAMS	PLYWOOD CLOUD CEILINGS & PLYWOOD PANELS		BEECHWOOD		03_WALL FINISH
WP-1	FIBER CEMENT WALL PANEL	NICHHA	QUEUING/ SERVING WALL, PONY WALL @ DINING, DINING WAINSCOT	VINTAGE BRICK	WHITE WASH		03_WALL FINISH
WP-2	FIBER CEMENT WALL PANEL	NICHHA	COORDIDOR WAINSCOT	VINTAGE WOOD	BARK		03_WALL FINISH
05_CEILING							
CT-1	24X48 CEILING TILE	CERTAINTeed	BACK KITCHEN CEILING	1140-CRF-1	WHITE		05_CEILING

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Revisions		
Number	Description	Date
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6	OWNER REVISION	10.17.18

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VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

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drawn by: CG  
checked by: GS  
drawing title: DOOR & WINDOW TYPES AND DOOR & FINISH SCHEDULES  
drawing number:

A601



EQUIPMENT SCHEDULE					
SYMBOL	ITEM	MANUFACTURER	MODEL	DIMENSIONS	NOTES
EQ-1	HAND SINK	ADVANCE TABCO	7-PS-EC-SP-C	13(H) x 17.25(w) x 15.25 (d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-2.2	DUNNAGE RACK	GUSTO	DR2036	20"(w) X 36"(l)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-3	NOT USED				
EQ-3.1	BUFFET DISPLAY TABLE W/ TRAY SLIDE	TURBO AIR	JBT-60 W/ TS-60	35.75(h) x 59(w) x 35.75(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-4	BUFFET DISPLAY TABLE W/ TRAY SLIDE	TURBO AIR	JBT-72 W/ TS-72	35.75(h) x 70.9(w) x 35.75(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-5	POS	-	-	-	PROVIDED BY FRANCHISEE
EQ-6	BEER DISPENSER W/ TAP HANDLE DISPLAY	BOTTOMS UP	3 KEG W/ BU6-4C & TAP DISPLAY_BOLT ON		BY GRINON INDUSTRIES. CONTACT WARREN CARROLL (206) 753-7178
EQ-7	REACH-IN FREEZER	TURBO AIR	TSF-49SD	78.25(h) x 54.38(l) x 30.38(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
A23	COLD WELL TABLE	AMERI-TEX	-	-	PROVIDED BY FRANCHISEE, GC INSTALLED
EQ-8.1	COLD FOOD WELL UNIT, DROP IN REFRIDGERATED	APW WYOTT	CW-1	-	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-9	THREE (3) COMPARTMENT SINK	ADVANCE TABCO	FE-3-1812-18RL-C	43(h) x 90(l) x 23.75(w)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-9.1	WIRE SHELVING	CENTAUR	C1436K	36(w) x 14(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-10	MOP SINK	JOHN BOOS	PBMS-2016-6-X	10(h) x 25(l) x 21(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-11	DOUGH MIXER	UNIVEX	SL50 SILVERLINE SPIRAL MIXER	44.9(h) x 20.9(w) x 36.2(d)	PROVIDED BY FRANCHISEE/ DOUGH NATION HQ, GC INSTALLED
EQ-12	NOT USED				
EQ-13	BAG IN BOX RACK	-	-	-	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-14	NOT USED				
EQ-16	SODA MACHINE W/ ICE MAKER	COCA COLA	FREESTYLE 7000	43(h) x 30 1/8(w) x 35 11/16(d)	LEASED EQUIPMENT: CONTACT JACK TINGLEY (512) 809-5392 & LOCAL BOTTLER REP
EQ-18	DOUGH DIVIDER/ROUNDER	UNIVEX	SBDR15		PROVIDED BY FRANCHISEE/ DOUGH NATION HQ, GC INSTALLED
EQ-19	PIZZA DOUGH SPINNER	UNIVEX	SPZ40	29.5(h) x 18.9(w) x 26(d)	PROVIDED BY FRANCHISEE/ DOUGH NATION HQ, GC INSTALLED
EQ-20	POT FILLER	FISHER	4731		ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
A46	SPINNER STATION	AMERI-TEX		-	PROVIDED BY FRANCHISEE, GC INSTALLED
EQ-23	FREESTANDING WIRE SHELVING	CENTAUR		36(w) x 18(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-24	TEA URN	COCA COLA	-	-	LEASED EQUIPMENT: CONTACT JACK TINGLEY (512) 809-5392 & LOCAL BOTTLER REP
EQ-25	FREESTANDING WIRE SHELVING	CENTAUR		48(w) x 18(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-26	FREESTANDING WIRE SHELVING	CENTAUR		60(w) x 18(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-28	FOOD PROCESSOR	XEBECO	XeFP	30.31(h) x 20.06(l) x 11(w)	PROVIDED BY FRANCHISEE/ DOUGH NATION HQ, GC INSTALLED
A48	TRASH/TRAY BIN	AMERI-TEX	-	-	PROVIDED BY FRANCHISEE, GC INSTALLED
EQ-30	SNEEZE GUARD	AMERI-TEX	-	-	GLAZING BY GC; BRACKETS BY FRANCHISEE. INSTALLED BY GC.
EQ-32	PIZZA OVEN	MARRA FORNI	RT130 (GAS FIRED)		PROVIDED BY FRANCHISEE/ DOUGH NATION HQ, GC INSTALLED
EQ-33	GELATO MACHINE	SEVEL SHOWCASE SLM- SLIMLINE	SLM 6	49.2(h) x 48.8(w) x 28.5 (d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-34	NOT USED				
EQ-37	ROLLING RACK	ADVANCE TABCO	PR12-5K-X		ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-38	WALK-IN COOLER W/ REMOTE CONDENSER				ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-38.1	KEG STORAGE RACK				ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-39	NOT USED				
EQ-40	DOUBLE 5 GAL. COLD BEVERAGE DISPENSER	CRATHCO	D25-4	15(d) x 17.5 (w) x 27.25 (h)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-41	NOT USED				
EQ-43	OPEN MERCHANDISER	TURBO AIR	TOM-30SB	34.63(d) x 28 (w) x 41.5 (h)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED

EQUIPMENT SCHEDULE CONTINUED					
SYMBOL	ITEM	MANUFACTURER	MODEL	DIMENSIONS	NOTES
EQ-45	NOT USED				
EQ-47	FREESTANDING WIRE SHELVING	METRO	PR48X3	48(w) x 24(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-47.1	NOT USED				
EQ-48	NOT USED				
EQ-49	NOT USED				
A25	NOT USED				
EQ-52	NOT USED				
EQ-53	NOT USED				
EQ-54	WORK TABLE, STAINLESS STL. TOP W/ BACK SPLASH	ADVANCE TABCO	KMSLAG-305-X	60(w) x 30(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-54.1	NOT USED				
A10	NOT USED				
EQ-56	WORK TABLE W/ UNDERSHELF	ADVANCE TABCO	ELAG-184-X	48(w) x 18(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-57	VEGGIE PREP SINK	ADVANCE TABCO	FC-1-1818-18L-X	38(h) x 38.5(w) x 24(d)	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-58	FREESTANDING WIRE SHELVING			24(w) x 24 (d)	ACEMART RESTAURANT SUPPLY SUPPLIED & CONTRACTOR INSTALLED
EQ-59	NOT USED				
EQ-60	NOT USED				
EQ-61	NOT USED				
A38	MERCHANDISER	AMERI-TEX		-	PROVIDED BY FRANCHISEE, GC INSTALLED
EQ-64	NOT USED				
A65	NOT USED				-
A15	BEVERAGE TABLE, 6FT	AMERI-TEX	-	-	PROVIDED BY FRANCHISEE, GC INSTALLED
A25	DRIZZLE STATION SNEEZE GUARD/ SHELF	AMERI-TEX			GLAZING BY GC; BRACKETS BY FRANCHISEE. INSTALLED BY GC.
A29	HANDRAIL, 2 FT	AMERI-TEX	UB-HR-2FT		PROVIDED BY FRANCHISEE, GC INSTALLED
A31	HANDRAIL, 4 FT	AMERI-TEX	UB-HR-4FT		PROVIDED BY FRANCHISEE, GC INSTALLED
A33	HANDRAIL, 6 FT	AMERI-TEX	UB-HR-6FT		PROVIDED BY FRANCHISEE, GC INSTALLED
A35	HANDRAIL, 8 FT	AMERI-TEX	UB-HR-8FT		PROVIDED BY FRANCHISEE, GC INSTALLED

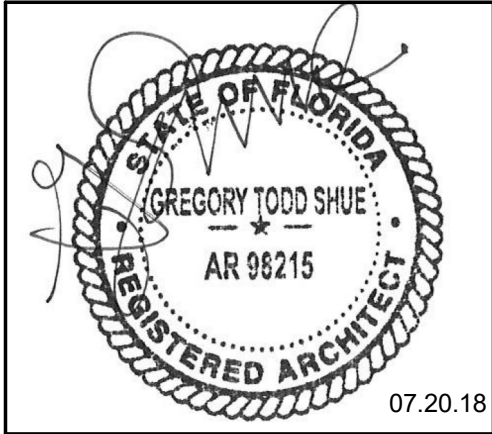
NOTE: PIZZA OVEN TO BE PERMITTED SEPARATELY.

3  
PERMIT COMMENTS  
10.02.18

FURNITURE SCHEDULE					
SYMBOL	ITEM	MANUFACTURER	MODEL	DIMENSIONS	NOTES
A1	FIXED STOOL	AMERITEX	-	12"(w) x 12"(l) x 30"(h)	FRANCHISEE PROVIDED & GC INSTALLED
F-1	TABLE	FLORIDA SEATING	MARCO VINTAGE PINE	30"(w) x 48"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-2	TABLE	FLORIDA SEATING	MACRO TOP W/ BASE (T.B.D. BY FRANCHISEE)	36"(w) x 36"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-3	TABLE	FLORIDA SEATING	MARCO VINTAGE PINE	30"(w) x 70"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-4	TABLE	FLORIDA SEATING	MACRO TOP W/ BASE (T.B.D. BY FRANCHISEE)	30"(w) x 70"(l) x 42"(h)	FRANCHISEE PROVIDED & INSTALLED
F-5	INDUSTRIAL CHAIR - WHITE	FLORIDA SEATING	-	14"(w) x 13.5"(d) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-6	INDUSTRIAL BARSTOOL - WHITE	FLORIDA SEATING	-	12"(w) x 12"(d) x 40.5"(h)	FRANCHISEE PROVIDED & INSTALLED
F-7	INDUSTRIAL BB - LIME GREEN	FLORIDA SEATING	-	12"(w) x 12"(d) x 30"(h)	FRANCHISEE PROVIDED & INSTALLED
F-8	OUTDOOR TABLE	FLORIDA SEATING	ELEMENT TOP W/ BASE (T.B.D. BY FRANCHISEE)	32"(w) x 48"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-9	TABLE	FLORIDA SEATING	MACRO TOP W/ BASE (T.B.D. BY FRANCHISEE)	24"(w) x 32"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-10	OUTDOOR TABLE	FLORIDA SEATING	044 DRIFTWOOD	36"(w) x 36"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-11	OUTDOOR TABLE	FLORIDA SEATING	ELEMENT TOP W/ BASE (T.B.D. BY FRANCHISEE)	24"(w) x 32"(l) x 34"(h)	FRANCHISEE PROVIDED & INSTALLED
F-12	TABLE	FLORIDA SEATING	MACRO TOP W/ BASE (T.B.D. BY FRANCHISEE)	24"(w) x 32"(l) x 42"(h)	FRANCHISEE PROVIDED & INSTALLED
F-13	OUTDOOR CHAIR	FLORIDA SEATING	AL-5000 S WARM GREY	19.5"(w) x 16.5"(d) x 32.5"(h)	FRANCHISEE PROVIDED & INSTALLED
F-14	PICNIC TABLE	ULINE	H-5870	60"(w) x 72"(l) x 29"(h)	FRANCHISEE PROVIDED & INSTALLED

OWNER REVISION  
12.05.18

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Revisions		
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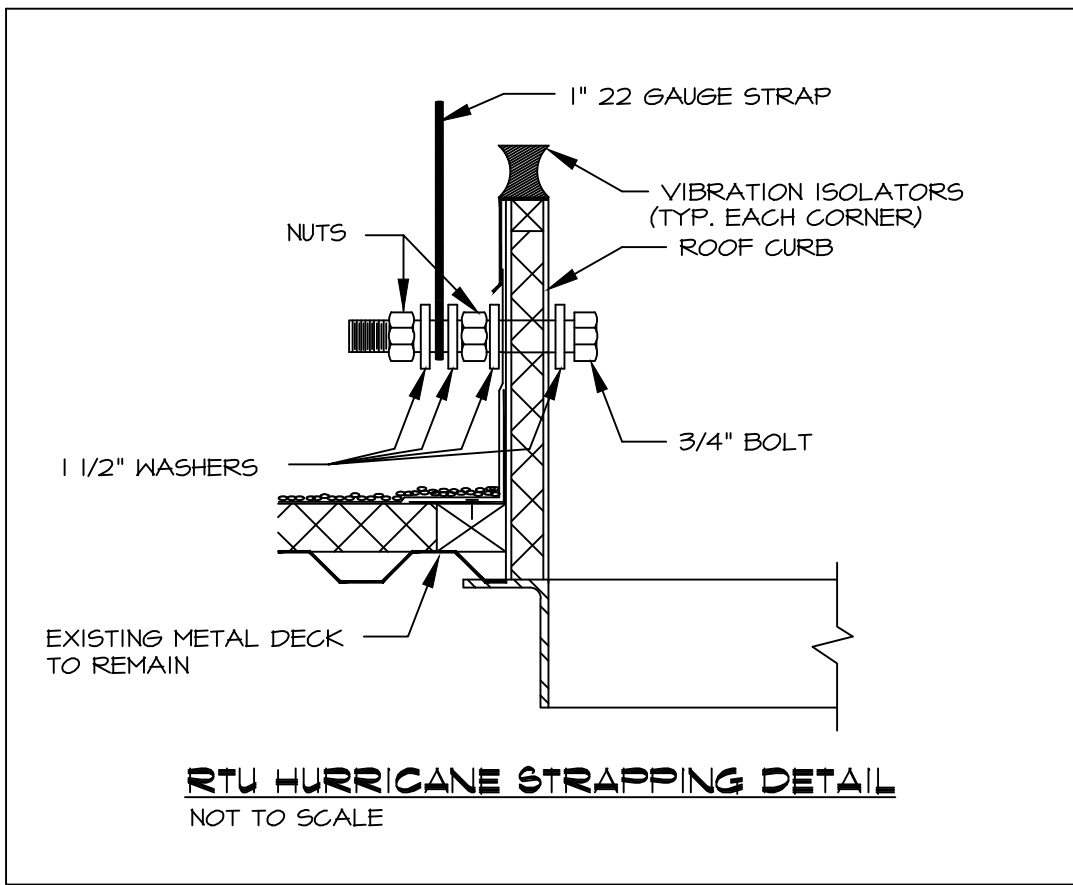
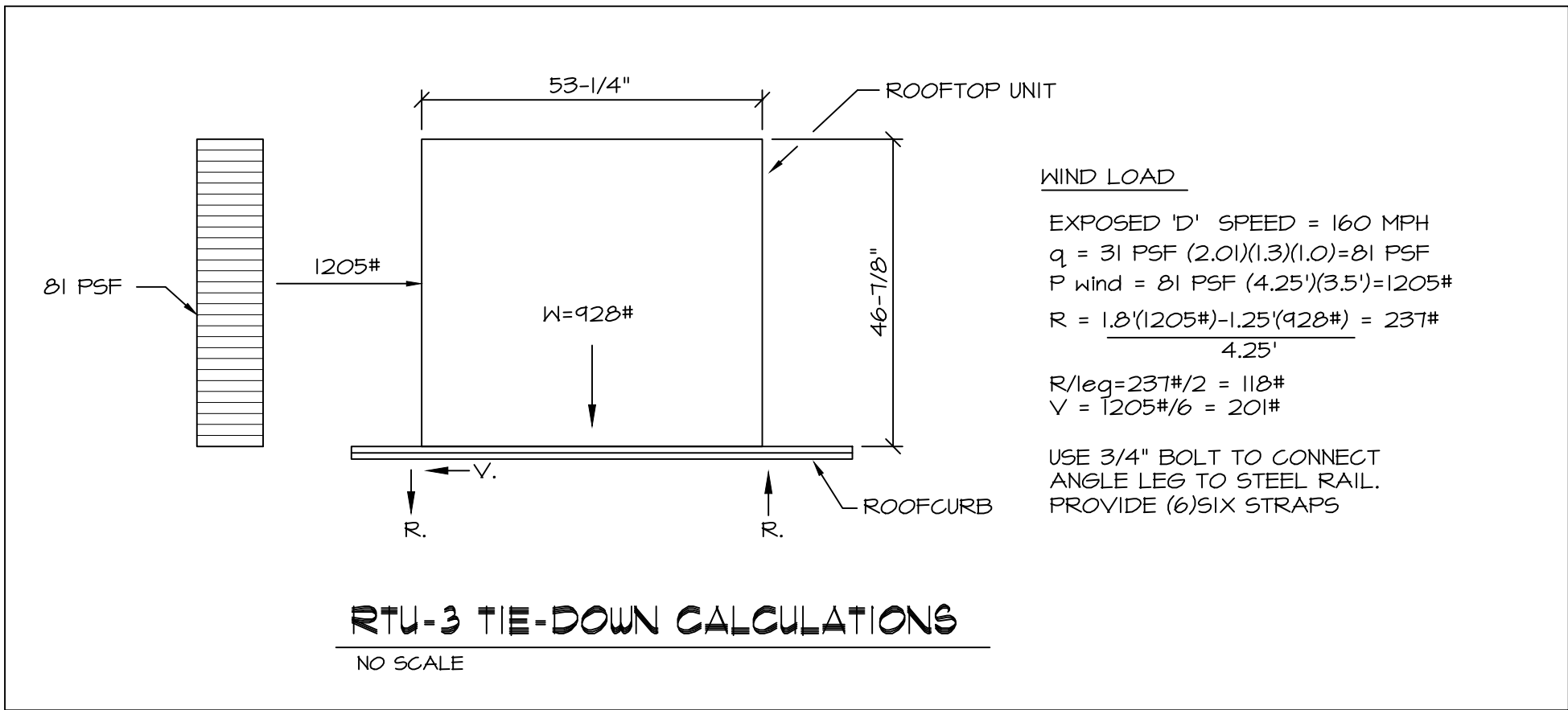
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VERO BEACH, FL

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checked by: Checker  
drawing title: SCHEDULES

drawing number:

A602



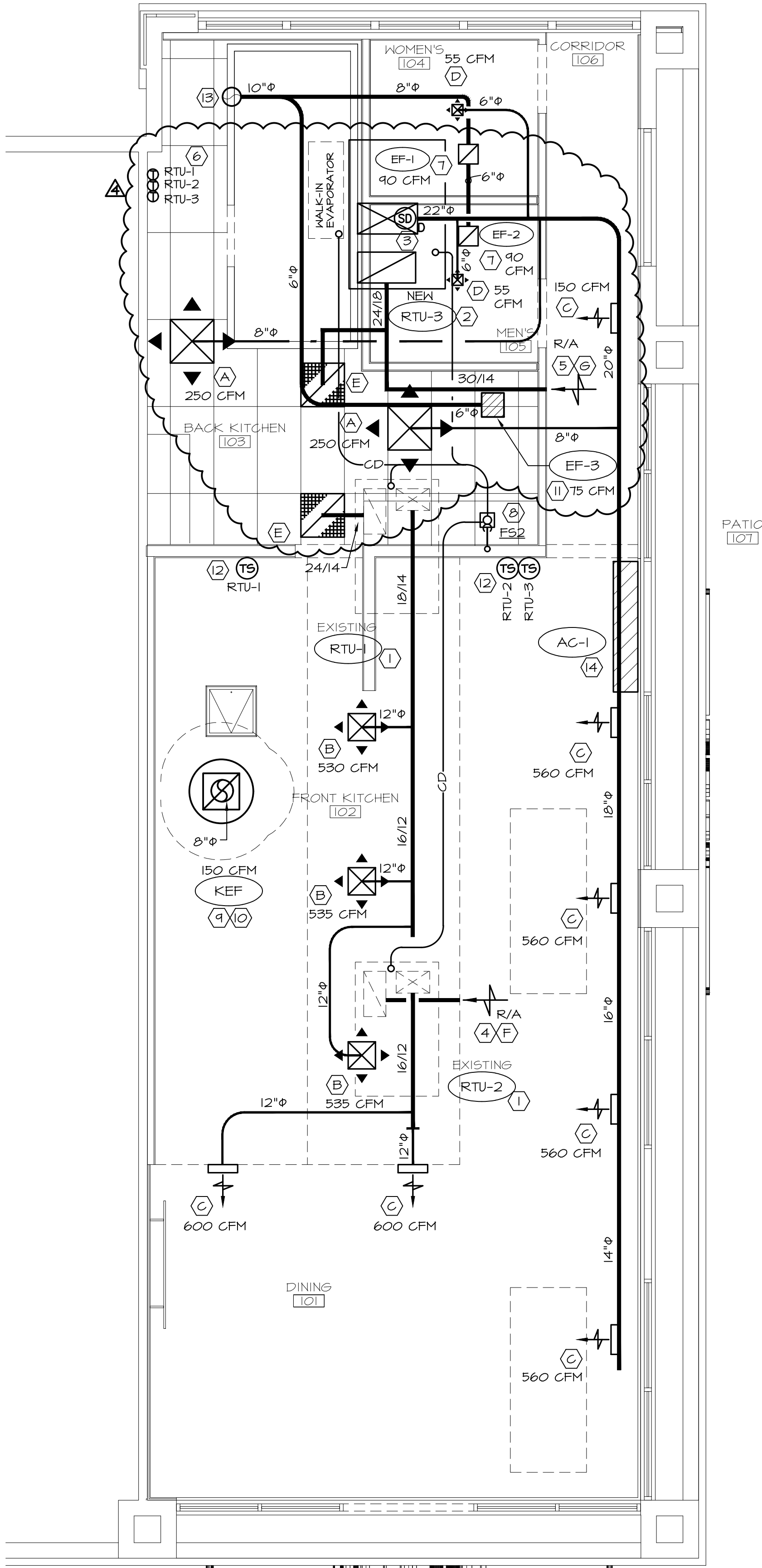


**GENERAL MECHANICAL NOTES :**

- CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.
- NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURE ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED.
- CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
- ALL EXPOSED DUCTWORK SHALL BE ROUND SPIRAL 4 SILVER PAINT BRUSH FINISH.
- FINAL LOCATION OF ALL ROOFTOP EQUIPMENT TO BE COORDINATED WITH EXISTING ROOF STRUCTURE.
- MAINTAIN A 10'-0" MINIMUM BETWEEN ANY INTAKES AND EXHAUSTS/VENTS.

**MECHANICAL KEYED NOTES :**

- EXISTING ROOFTOP HVAC UNIT, COORDINATE EXACT LOCATION ON-SITE. PROVIDE A TRANSITION DUCT AS REQUIRED AND FLEXIBLE SECTION AT CONNECTION. FIELD COORDINATE EXISTING CONDITIONS.
- NEW ROOFTOP HVAC UNIT, COORDINATE EXACT MOUNTING LOCATION ON-SITE. PROVIDE A TRANSITION DUCT AS REQUIRED AND FLEXIBLE SECTION AT CONNECTION.
- PROVIDE DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AIR DUCT AND CONNECT TO LOCAL FIRE ALARM ANNUNCIATOR.
- PROVIDE 24"x12" RETURN AIR GRILLE IN WALL. COORDINATE LOCATION ON SITE WITH GRAPHICS AND MENU BOARD PRIOR TO ANY INSTALLATION.
- PROVIDE 42"x18" RETURN AIR GRILLE IN WALL. CONTRACTOR SHALL PAINT THE DIFFUSER TO MATCH THE ADJACENT WALL.
- MOUNT THERMOSTAT @48" A.F.F. PROVIDE LOCKABLE COVER. COORDINATE FINAL LOCATION ON-SITE W/ PROJECT MANAGER. THESE SHALL BE CONNECTED TO TEMPERATURE SENSORS LOCATED ON WALL. REFER TO KEYED NOTE #12.
- PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. EXHAUST FAN TO BE CONTROLLED WITH LIGHTS IN ROOM.
- CONTRACTOR TO RUN CONDENSATE DRAIN FROM RTU'S & WALK IN COOLER TO FLOOR SINK. REFER TO SHEET P2 FOR LOCATION. COORDINATE ON-SITE.
- INTERCONNECT KEF WITH PIZZA OVEN CONTROLS SO THEY WILL RUN SIMULTANEOUSLY. COORDINATE WITH ELECTRICAL CONTRACTOR.
- ROUTE KITCHEN OVEN 22 GAUGE EXHAUST SS DUCT FROM OVEN CONNECTION UP THRU ROOF TO ROOF MOUNTED EXHAUST FAN. PROVIDE ACCESS DOOR IN DUCTWORK AT ALL CHANGES IN DIRECTION. TRANSITION AS REQUIRED TO CONNECT TO HOOD DUCT COLLAR AND EXHAUST FAN. VERIFY EXACT HOOD COLLAR DIMENSIONS PRIOR TO CONNECTION. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO ROOF PENETRATION. FIELD COORDINATE EXISTING CONDITIONS & MAINTAIN A 10'-0" MINIMUM BETWEEN ANY INTAKES AND EXHAUSTS/VENTS.
- CONNECT EXHAUST FAN TO MOTOR RATED SWITCH.
- REMOTE HVAC THERMOSTAT SENSOR INSTALLED EITHER ON THE WALL OR COLUMN WHERE POSSIBLE, COORDINATE LOCATION ON-SITE W/ PROJECT MANAGER PRIOR TO SETTING.
- RUN ROUND EXHAUST DUCT UP THRU ROOF. PROVIDE ROOFGAP, BIRDSCREEN AND BACKDRAFT DAMPER. MAINTAIN A 10'-0" MINIMUM BETWEEN ANY INTAKES AND EXHAUSTS/VENTS. FIELD COORDINATE LOCATION AND EXISTING CONDITIONS.
- NEW AIR CURTAIN ABOVE DOOR. PROVIDE / INSTALL CONTRACTOR SWITCH AT DOOR TO AUTOMATICALLY TURN UNIT ON WHEN DOOR OPENS. FIELD COORDINATE REQUIREMENTS PRIOR TO SUBMITTING A BID.



**MECHANICAL PLAN**  
SCALE: 1/4"=1'-0"

Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
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2017 INDIAN RIVER BLVD.  
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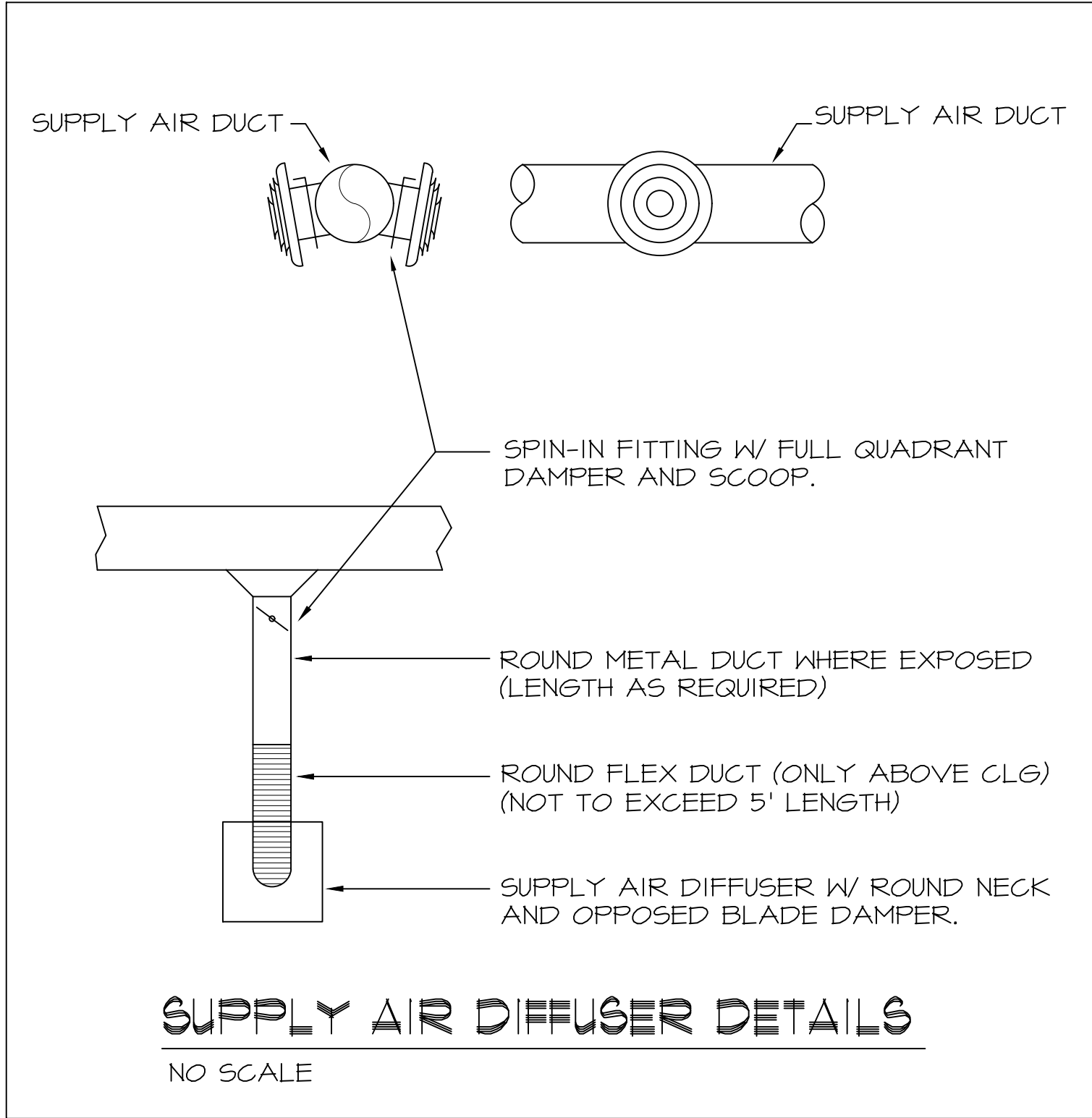
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**MECHANICAL  
PLAN**

drawing number:

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HVAC COOLING LOAD CALCULATIONS			
LOAD	CALCULATION	SENSIBLE	LATENT
ROOF:	1607 S.F. (0.045)(58) =	4194 BTUH	-0- BTUH
WALLS:	1500 S.F. (0.064)(24) =	2304 BTUH	-0- BTUH
GLASS:	1400 S.F. (0.821)(24) =	27586 BTUH	-0- BTUH
PEOPLE:	71 (250/200) =	19250 BTUH	15400 BTUH
LIGHTS:	1581 W (3.413) =	5396 BTUH	-0- BTUH
EQUIPMENT:	17000 W (3.413) =	58021 BTUH	-0- BTUH
OUTSIDE AIR	825 CFM (1.04)(24) = 825 CFM (0.68)(32) =	20592 BTUH	17952 BTUH
SUBTOTALS =		131343 BTUH	33352 BTUH
TOTAL COOLING LOAD =		170695 BTUH	

HVAC HEATING LOAD CALCULATIONS			
LOAD	CALCULATION	SENSIBLE	
ROOF:	1607 S.F. (0.045)(50) =	3616 BTUH	
WALLS:	1500 S.F. (0.064)(50) =	4800 BTUH	
GLASS:	1400 S.F. (0.82)(50) =	57400 BTUH	
OUTSIDE AIR	825 CFM (50) =	41250 BTUH	
SUBTOTALS =		107066 BTUH	

MECHANICAL EQUIPMENT (ELECTRIC HEAT) SCHEDULE																	
TAG	FLOW RATE		ELECTRICAL DATA		DX COOLING					ELECTRIC HEATING		BASIS OF DESIGN					NOTES
	SUPPLY	OA	MCA	MOCP	VOLTAGE	SENSIBLE	TOTAL	ENT. AIR TEMP	LEA. AIR TEMP	COIL							
	CFM	CFM	AMPS	AMPS		MBH	MBH	DB/WB	DB/WB	STAGES	KW	MANUFACTURER	MODEL OR SERIES	HP	EER/IEER	WEIGHT (LBS)	
RTU-1	1600	225	23.5	30	208/3ø	-	-	80/67	56/54	-	-	ICP	RA5048HOCAGAAAA	-	-	-	EXISTING
RTU-2	1200	170	19.4	25	208/3ø	-	-	80/67	56/54	-	-	ICP	RA5036HOCAGAAAA	-	-	-	EXISTING
RTU-3	3000	430	42.4	50	208/3ø	68.6	92	80/67	56/54	1	9	TRANE	THC-092F3	-	12.6/14.5	928	1 THRU 8
NOTES: 1. UNIT TO BE PROVIDED WITH; ELECTRIC HEAT, FAN, DX COOLING. 2. PROVIDE BAROMETRIC RELIEF DAMPER W/ OUTDOOR AIR HOOD. 3. PROVIDE 6FCI SERVICE OUTLET. 4. PROVIDE OUTDOOR AIR DAMPER. 5. PROVIDE HAIL GUARDS. 6. PROVIDE ROOF CURB. 7. PROVIDE COMMERCIAL PROGRAMMABLE THERMOSTAT. 8. UNIT MUST RELIEF 200 CFM.																	

AIR DEVICE SCHEDULE						
TAG	SIZE	DESCRIPTION	CONSTRUCTION	BASIS OF DESIGN		NOTES
			FINISH	MANUFACTURER	MODEL SERIES	
A	24X24	LAY-IN 4-WAY SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TMS	ALL
B	15x15	LOUVERED FACE SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TDCA	ALL
C	12"Ø	ROUND SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TMR-AA	ALL
D	6x6	LOUVERED FACE SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TDCA	ALL
E	24X24	LAY-IN RETURN AIR GRILLE	ALUMINUM	TITUS	#50F	ALL
F	24X14	SIDEWALL MOUNTED RETURN AIR GRILLE	ALUMINUM	TITUS	#50F 1"x1"x1" CUBE CORE	ALL
G	42X18	SIDEWALL MOUNTED RETURN AIR GRILLE	ALUMINUM	TITUS	#50F 1"x1"x1" CUBE CORE	3
NOTES: 1. PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN. 2. PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT, DUCTWORK, AND STRUCTURAL MEMBERS. 3. PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING, IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING. 4. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZES AS NECK OF AIR DEVICE. INDICATES HARD CEILING, IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING. 5. AIR DEVICE SHALL BE OF GALVANIZED FINISH WHEN INSTALLED ON EXPOSED DUCTWORK.  FOR ROUND DUCT NECK DIFFUSERS: 6" DIA: 0-120 CFM 8" DIA: 125-220 CFM 10" DIA: 225-380 CFM 12" DIA: 385-600 CFM						

AIR BALANCE REPORT			
(KITCHEN / SUPPORT AREA)			
	CFM	OUTSIDE AIR	TOTAL EXHAUST
DINING AREA	3540	515	-0-
FRONT KITCHEN	1600	225	150
BACK KITCHEN	500	70	75
TOILET ROOM	110	15	180
TOTAL	5800	825	405
TOTAL EXHAUST = 405 CFM			
TOTAL OUTSIDE/MAKE-UP AIR = 825 CFM			
NOTE: BUILDING SUITE CLASSIFIED AS A COMMERCIAL KITCHEN BUSINESS ASHRAE & ADOPTED INTERNATIONAL & STATE CODES.			
PIZZA EXHAUST AIR	= 150 CFM		
MOP SINK EXHAUST	= 75 CFM		
TOILET ROOM EXHAUST	= 180 CFM		
MAKE UP AIR	= -0- CFM		
HVAC OUTSIDE AIR	= 825 CFM		

OUTSIDE AIR CALCULATIONS	
AS PER INTERNATIONAL MECHANICAL CODE	
$Vbz = RpxPz + RaxAz$ DINING = $(7.5)(62) + (0.18)(878) = 623$ CFM KITCHEN = $(7.5)(15) + (0.12)(729) = 200$ CFM	
MINIMUM OUTSIDE AIR = 823 CFM SCHEDULED OUTSIDE AIR = 825 CFM	
RTU-1 = 225 CFM RTU-2 = 170 CFM RTU-3 = 430 CFM	

AIR CURTAIN SCHEDULE	
MARK	AC-1
WIDTH (IN)	71.37
MAX. VEL. AT NOZZLE (FPM)	2870
AVG. OUTLET VEL. (FPM)	1707
AIR VOLUME (CFM)	2010
OUTLET VEL. UNIFORMITY	95%
POWER RATING (KW)	0.32
MOTOR(S) HP	(1) 1/15
ELECTRIC HEAT (KW)	N/A
HEATER OUTPUT (MBH)	N/A
VOLTS/PHASE	120/1
MANUFACTURER	BERNER
MODEL	GLC08-1072A
APPROX WEIGHT (LBS)	64
NOTES:	12

- NOTES:
- UNIT TO BE PROVIDED WITH FACTORY "PREWIRED" APPROVED MOTOR DISCONNECT DEVICES & MOTOR OVERLOAD PROTECTION.
  - PROVIDE / INSTALL CONTRACTOR SWITCH AT DOOR TO AUTOMATICALLY TURN UNIT ON WHEN DOOR OPENS.

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MECHANICAL  
SCHEDULES

drawing number:



- GENERAL.
- A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.
- B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

SCOPE

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE FACE OF THE GENERAL CONSTRUCTION.

INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOBSITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE TENANT, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE TENANT.

MATERIALS AND WORKMANSHIP

A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE AFFLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE TENANT'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, TENANT AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE TENANT FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD, THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOGUE DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE TENANT FOR APPROVAL.

RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK. REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING

GENERAL.

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE TENANT, HEREIN, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

EQUIPMENT

A. AIR CONDITIONING UNITS - UNITS SHALL BE FACTORY ASSEMBLED AND PRE-TESTED INCLUDING FANS, MOTORS, COILS, FILTERS, VARIABLE PITCH DRIVES, ETC. ALL UNITS SHALL BE EQUIPPED WITH AN ECONOMIZER PACKAGE AND RELIEF DAMPER. UNITS SHALL HAVE NET CAPACITY RATINGS DETERMINED AT THE SPECIFIED DESIGN CONDITIONS. THESE NET CAPACITY RATINGS SHALL BE DETERMINED BY DEDUCTING FOR MOTOR HEAT, THE AIR CONDITIONING UNITS SUPPLIED SHALL HAVE A TOTAL SYSTEM ENERGY RATIO (ESR) AS PER CITY CODE. THIS EER SHALL BE DETERMINED BY DIVIDING THE NET CAPACITY AS DEFINED ABOVE BY THE TOTAL INPUT WATTAGE. THE TOTAL INPUT WATTAGE IS TO INCLUDE THE WATTAGE OF ALL FAN MOTORS AND ASSOCIATED EQUIPMENT. CONTRACTOR WILL FURNISH VIBRATION ISOLATION AS REQUIRED AND RECOMMENDED BY EQUIPMENT MANUFACTURER.

B. AIR COOLED CONDENSING UNITS - UNITS SHALL BE FACTORY ASSEMBLED AND PRE-TESTED, AND WILL INCLUDE HEAVY GALVANIZED STEEL HOUSING FINISHED WITH BAKED ENAMEL. AIR COOLED CONDENSERS WITH COPPER TUBES AND ALUMINUM FINS, CONTROL PANEL, COMPRESSOR HIGH AND LOW PRESSURE CUTOUTS, MFLERS, CRANKCASE HEATERS, LIQUID RECEIVE, ETC. COMPRESSORS SHALL BE OF THE HERMETICALLY SEALED OR SEMI-HERMETICALLY SEALED TYPE. (LOW AMBIENT CONTROL STD.)

C. CENTRAL STATION AIR HANDLING EQUIPMENT - (IF SCHEDULED ON DRAWINGS) SHALL BE LOW TO MEDIUM PRESSURE SINGLE ZONE DRAWTU UNITS EQUAL TO TRANE OR CARRIER. THEY SHALL BE COMPLETE WITH COOLING AND/OR HEATING COILS AND ACCESSORIES AS SPECIFIED ON THE PLANS.

RELIEF AIR FANS

1. GRAVITY RELIEF - EQUAL TO BREIDERT TYPE "RLO" WITH INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN.

2. POWER RELIEF - EQUAL TO BREIDERT TYPE "LO-SET" SET WITH MOTORIZED DAMPER AND INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN.

D. ELECTRIC STRIP HEATER - EACH STRIP HEATER SHALL BE CONSTRUCTED TO SLIP INTO THE DUCT THROUGH A RECTANGULAR OPENING IN THE SIDE. EACH STRIP HEATER SHALL BE FURNISHED COMPLETE WITH BUILT-IN MAGNETIC CONTACTORS, AIR FLOW SWITCH, AND FACTORY PREWIRED TO TERMINAL STRIPS FOR LINE AND CONTROL CONNECTIONS IN THE FIELD. A THERMAL CUTOFF SHALL BE FURNISHED WITH EACH STRIP HEATER TO PROTECT THE HEATER AGAINST AIR FAILURE. THE COMPLETE HEATING UNIT SHALL BE LISTED BY UNDERHITTER'S LABORATORIES, INC. COILS SHALL BE ARRANGED FOR MINIMUM TWO-STAGE CONTROL. 100W AND ABOVE.

E. FILTERS - FILTERS SHALL BE OF THE THROW AWAY TYPE WHEREVER POSSIBLE. IF FILTERS ARE OF NECESSITY THE PERMANENT TYPE, THEN THEY MUST BE OF THE CLEANABLE, HIGH VELOCITY TYPE AND SHALL BE AMERICAN AIR FILTERS, AIR MAYS, EVANS, OR APPROVED EQUAL. FILTERS SHALL BE OF THE OPTIMUM THICKNESS AND DESIGN SPECIFIC DETAILS FOR ULL (B) REQUIREMENTS. INSTALLATION OF THE AIR CONDITIONING UNIT SHALL BE SUCH SO AS TO NOT IMPED ACCESS TO THE FILTERS. IF THE FILTERS ARE IN FRAME HOLDERS, THEN SUCH HOLDERS SHALL BE PROVIDED WITH A LEFT HANDLE.

G. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH MULTI-STAT THERMOSTAT. A DIAL STAGE UNIT WILL BE EQUIPPED WITH A DAY/NIGHT THERMOSTAT ARRANGEMENT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

COOLING: 70 F MINIMUM OCCUPIED COOLING TEMPERATURE 85 F COOLING NIGHT SETBACK.

HEATING: 75 F MAXIMUM OCCUPIED HEATING TEMPERATURE 60 F HEATING NIGHT SETBACK.

H. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILLED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GUAGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
12" AND LESS	1" AND DRIVE CLEATS
13" TO 30"	1" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENTERS

ROUND DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE (DIAMETER)	DUCTS	FITTINGS
8" AND LESS	24	22
9" TO 18"	22	20
19" TO 30"	20	18

ALL 90 DEGREE ELBOWS FOR ROUND DUCTWORK SHALL BE FIVE (5) PIECE. ALL LONGITUDINAL SEAMS SHALL BE FORMED BY PITTSBURGH LOCKS. JOINTS SHALL BE SWAGGED WITH ONE-HALF INCH (1/2") OVERLAP.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MINIMUM 1-1/2" THICK ACUSTICAL AND THERMAL INSULATION WITH AN R-VALUE OF 5.0 ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.

D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEETMETAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

HANGERS AND SUPPORTS

A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOSSEL BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

FLASHING

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

B. ALL CUTTINGS OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, GUTTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB-CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

DAMPERS

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.

C. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLMAN AIRTURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

FIBROUS GLASS DUCT SYSTEMS OPTION

AT HIS OPTION, THE CONTRACTOR MAY FURNISH OWENS-CORNING BOOFER OR BOOFER OR EQUAL FOR ALL SUPPLY AND RETURN DUCTWORK WHERE THE AIR VELOCITY IS UNDER 2400 FPM, STATIC PRESSURE IS 2" OR LESS AND THE AIR TEMPERATURE IS 250 F OR LESS. SYSTEM SHALL BE FABRICATED, REINFORCED AND INSTALLED ACCORDING TO THE "SMACNA" PUBLICATION - FIBROUS GLASS DUCT CONSTRUCTION STANDARDS, FOURTH EDITION, 1975.

ALL JOINTS ARE TO BE SEALED WITH 2-1/2" "SMACNA" APPROVED PRESSURE SENSITIVE ALUMINUM TAPE MEETING AFTS 100-75 STANDARDS AND THE REQUIREMENTS OF ULL 181. APPLICATION SHALL BE IN ACCORDANCE WITH AFTS 101-75. (REFER TO MANUFACTURER'S INSTRUCTION SHEET FOR SPECIFIC DETAILS FOR ULL (B) REQUIREMENTS.) RECOMMEND FASSON OBOSS. DO NOT APPLY AT TEMPERATURE BELOW 32 F.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

DUCTWORK SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8' O.C. FOR STRAIGHT DUCTS UP TO 36" TO 54" MAXIMUM DIMENSION, 6' O.C. AND DUCTS OVER 60" MAXIMUM DIMENSION, 4' O.C.

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT THE DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED DOCUMENTS ARE ADHERED TO.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

PIPING

A. PIPING AND FITTINGS SHALL BE OF THE WEIGHTS AND TYPES SHOWN ON THE DRAWINGS. SIZES SHOWN ON THE DRAWINGS ARE NOMINAL PIPE SIZES.

B. ALL PIPING SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES WITH THE BUILDING WALLS AND PARTITIONS AND SHALL BE INSTALLED WITH THE PROPER PITCH.

C. ALL PIPING SHALL BE UPENDED AND POUNDED TO REMOVE ANY FOREIGN MATTER PRESENT AND SHALL BE SWABBED IF NECESSARY.

PLUMBING

MATERIALS

A. SANITARY SINKER - CAST IRON OR SCH. 40 PVC MAY BE USED UNLESS LANDLORD OR CITY REQUIREMENTS DIFFER. VENTS SHALL BE SCH. 40 PVC UNLESS LANDLORD OR CITY REQUIREMENTS REQUIRE CAST IRON. 40

B. DOMESTIC WATER AND HOT WATER PIPING SHALL BE PEX TYPE PIPING INSULATED WITH ARMAFLEX OR EQUIVALENT INSULATING TO A THICKNESS OF 1".

C. GAS PIPING SHALL BE BLACK STEEL SCHEDULED 40 WITH SCREENED FITTINGS.

D. CHILLED WATER SUPPLY AND RETURN PIPING SHALL BE GALVANIZED STEEL PIPE (STANDARD WALL) OR TYPE "M" HARD COPPER TUBING. ALL PIPING SHALL BE INSULATED WITH 1" THICK OWENS CORNING FIBERGLASS 25 ASJ/SSL OR EQUAL.

MAKING UP PIPE

A. SCREENED PIPE SHALL BE MADE UP WITH PIPE COMPOUND APPLIED TO THE MALE THREAD WITH NOT MORE THAN TWO THREADS LEFT EXPOSED. PIPE SHALL BE REAMED AFTER THREADING.

B. BELOW GRADE SANITARY PIPING SHALL BE CAST IRON PIPE AND SHALL BE MADE UP WITH ONE THIRD OF THE HUB CAULKED WITH FIRST QUALITY OAKUM, AND THE REMAINDER FILLED WITH FIRST QUALITY CAULKING AT ONE POURING AND CAULKED TIGHT. ABOVE GRADE TGC SHALL HAVE OPTION OF USING PVC AS CODE PERMITS.

C. COPPER JOINTS SHALL BE MADE UP WITH #5-S SOLDER.

HANGERS AND SUPPORTS

HORIZONTAL PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10'-0" WITH SHVEL SPLIT PIPE HANGERS EQUAL TO CRANE NO. 118F OR GRINNELL NO. 104. VERTICAL PIPING SHALL BE SUPPORTED BY MEANS OF WROUGHT IRON CLAMPS SUSPENDED FROM THE UNDERSIDE OF STRUCTURE WITH HANGER RODS.

CLEANOUTS

CLEANOUTS SHALL BE AS MANUFACTURED BY JOSAM, ZURN MFG. CO. OR EQUAL AND SHALL BE INSTALLED AT ALL BENDS, ANGLES, AND ENDS OF ALL WASTE AND SEWER LINES, AS CALLED FOR ON THE DRAWINGS, AND AS REQUIRED BY LOCAL CODES. ALL CLEANOUTS SHALL BE BROUGHT TO GRADE, AND IN ALL CASES, SHALL BE PROVIDED WITH SUFFICIENT SPACE FOR RODDING.

VALVES

ALL VALVES SHALL BE BRASS AND MANUFACTURED BY CRANE, NIBCO, STOCKHAM, LUNKENHEIMER, NORDSTROM, GRINNELL OR EQUAL.

SPRINKLER SYSTEM

A. SHOP DRAWINGS - THE SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE TENANT'S LANDLORD AND TO THE APPROPRIATE RATINGS BUREAU FOR THEIR APPROVAL. A COPY OF THE APPROVAL LETTER FROM THE RATINGS BUREAU SHALL BE FORWARDED TO THE TENANT AND TENANT'S LANDLORD.

B. SPRINKLER HEADS - SHOWN WINDOWS - HIGH TEMPERATURE, CHROME PLATED, COMPLETELY RECESSED TYPE. SALES AREA - CHROME PLATED, SEMI-RECESSED TYPE. STORAGE, TOILET AND WORK AREAS WITH CEILINGS - BRASS, PENDANT TYPE. STORAGE AND WORK AREAS WITHOUT CEILINGS - BRASS UPRIGHT TYPE. (REFER TO DWG. 141)

ROUGH-INS

FOR SECOND LEVEL STORES, THE TENANT'S GENERAL CONTRACTOR SHALL RUN ALL LINES REQUIRED FOR PLUMBING ROUGH-INS TIGHT AGAINST THE UNDER-SIDE OF THE SECOND FLOOR LEVEL. THE SECOND FLOOR STRUCTURAL SLAB SHALL BE GORED AS REQUIRED TO INSTALL THESE ITEMS AT THE LOCATIONS SHOWN ON THE PLANS.

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. GAS PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER INTERNATIONAL PLUMBING CODE.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL

TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

A. TELEPHONE - THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTITUTION, METERS, CROPS, AND OTHER MIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS, BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE PROVISIONS OR COORDINATE WITH LANDLORD'S GENERAL CONTRACTOR TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR TENANT GENERAL CONTRACTOR

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

HANDICAP SPECIFICATION: ARCHITECTURAL BARRIERS ACT, 42 USC. 4151-4157 GENERAL

THE WORK COVERED BY THESE SPECIFICATIONS INCLUDES BUT IS NOT LIMITED TO PROVIDING ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLY WITH HANDICAP REQUIREMENTS IN THIS ESTABLISHMENT.

TOILET ROOM ACCESSORIES

A. MIRROR BOTTOM EDGE SHALL BE LOCATED 40" MAXIMUM ABOVE FLOOR. (4.14.6)

B. TOILET TISSUE DISPENSER SHALL BE MOUNTED WITHIN 12" FROM THE FRONT EDGE OF TOILET SEAT, 18" MIN. A.F.F. (4.16.6)

C. OPERATING PARTS OF DISPENSER AND DISPOSAL FIXTURES SHALL BE WITHIN 40" OF FLOOR. (4.23.7)

WATER CLOSET GRAB BARS

A. ONE AT SIDE 42" LONG EXTENDING IN FRONT OF WATER CLOSET; ONE AT REAR 36" LONG CENTERED ON WATER CLOSET; BOTH MOUNTED 36" ABOVE FLOOR. (4.26)

B. BARS SHALL BE 1-1/4" - 1-1/2" IN DIAMETER WITH 1-1/2" CLEAR-ANCE TO WALL. (4.26)

C. BAR FASTENERS AND MOUNTING SUPPORT SHALL WITHSTAND 250 LBS./FT. BENDING, SHEAR, AND TENSION. (4.26)

WATER CLOSET

A. HEIGHT OF WATER CLOSET SEAT SHALL BE 18" A.F.F.

B. FORCE REQUIRED TO ACTIVATE FLUSH VALVE SHALL BE 5 LBS. MAXIMUM (4.16.5)

LAVATORY

A. PROVIDE 30" x 48" CLEAR FLOOR SPACE FOR FORWARD APPROACH, INCLUDING KNEE AND TOE SPACE. (4.14.3)

B. PROVIDE CLEAR SPACE BENEATH LAVATORY 24" HIGH x 30" WIDE x 8" DEEP (KNEE SPACE) AND 4" HIGH FROM THE FLOOR x 30" WIDE x 17" DEEP FROM FRONT OF LAVATORY (TOE SPACE). (4.14.2)

C. HOT WATER AND DRAIN PIPE UNDER LAVATORY SHALL BE INSULATED WITH ARMSTRONG ARMFLEX PIPE INSULATION. MITER CUT PIECES JOINED TOGETHER WITH ARMSTRONGS 520 ADHESIVE. (4.14.4)

D. FAUCET CONTROLS SHALL BE OF THE TYPE NOT REQUIRING TIGHT GRASPING, FINCHING, OR TWISTING OF WRIST AND AN OPERATING FORCE NOT EXCEEDING 5 LBS. (4.14.5)

E. SELF-CLOSING VALVES SHALL BE OF THE TYPE REMAINING OPEN FOR AT LEAST 10 SECONDS. (4.14.5)

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VERO BEACH, FL

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MECHANICAL  
SPECIFICATIONS

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M3

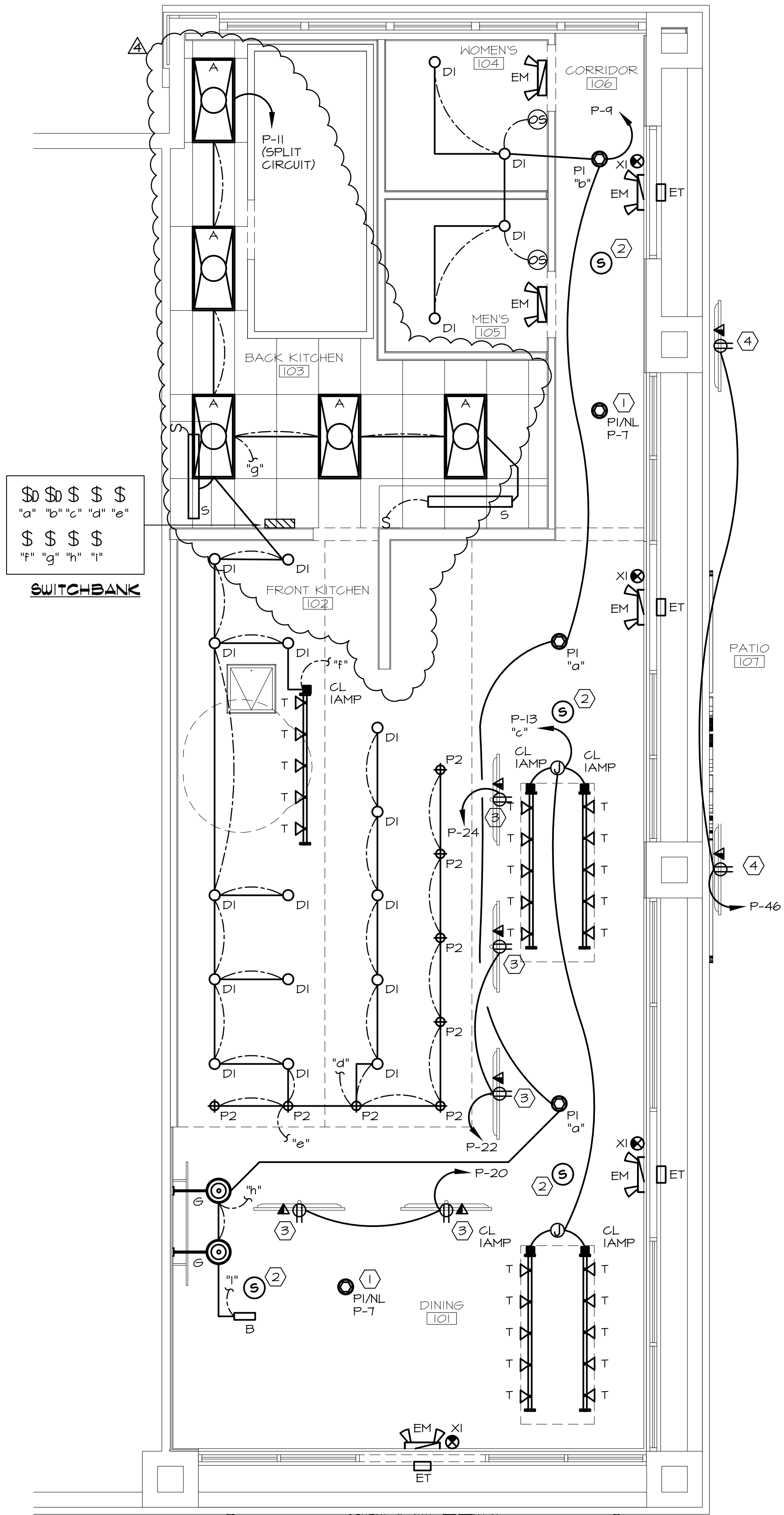
LIGHT FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOG NO.	MOUNTING	LAMPS		VOLTAGE	INPUT W	REMARKS
				#	LAMPS			
A	ELEDLIGHTS	2X4D6PANOXOUDXO	GRID	1	LED	100-2TTVAC	45	2X4 LED PANEL LIGHT, 5850 LUMENS, DIMMABLE, CONFIRM COLOR TEMPERATURE WITH OWNER
B	TBD	TBD	SURFACE	1	TBD	TBD	TBD	LED LIGHT STRIP
CL	ELEDLIGHTS	ELED-TRK-H-CLIA	UNISTRUT	-	-	120VAC	--	1A CURRENT LIMITER FOR H TRACK
DI	ELEDLIGHTS	6DWN40XXO16UNXO	RECESSED	1	LED	120VAC	16	6" LED COMMERCIAL RECESSED DOWNLIGHT, 1000 LUMENS, DIMMABLE, CONFIRM COLOR TEMPERATURE WITH OWNER
EM	ELEDLIGHTS	ELED-EMEL	WALL	-	LED	120/2TTV	-	HIGH OUTPUT LED EMERGENCY LIGHT, DUAL HEAD, WHITE FINISH W/ 90 MIN. BATTERY BACKUP.
ET	LITHONIA	AFN-DB-EXT	WALL	-	LED	120/2TTV	6	DIE-CAST ARCHITECTUAL EMERGENCY LIGHT W/ 90 MIN. BATTERY BACKUP.
G	ELEDLIGHTS	TBD	WALL	-	LED	120	15	EXTERIOR LED WALL MOUNT DECORATIVE, PEINTER FINISH.
PI PI/NL	ELEDLIGHTS	HD120BB090UDXOL	PENDANT	1	LED	100-2TTVAC	90	90W HIGH LUMEN DIMMABLE LED LOW BAY LIGHT, 12000 LUMENS, CONFIRM COLOR TEMPERATURE WITH OWNER, 1-HOV DIMMING CONTROL LINES MUST BE INSTALLED
P2	ELEDLIGHTS	ELED-PAR30-9W	PENDANT	1	LED	120VAC	9	9W LED PAR30 BULB FOR TYPE P2 PENDANT LIGHT, \$40 ALLOWANCE FOR ON-SITE FABRICATION OF PENDANT FIXTURE
S	ELEDLIGHTS	4FT (INTEGRATED LED TUBES)	UNDER SHELF	1	LED	AC100-2TTV	28	4FT INTEGRATED LED TUBE MOUNTED UNDER SHELF ABOVE 3-COMPARTMENT SINK.
T	ELEDLIGHTS	ELED-TL02-12W	TRACK	1	LED	100-240VAC	12	LED TRACK LIGHT HEADS, 750 LUMENS, INTEGRATED DRIVER, BLACK HOUSING
TI	ELEDLIGHTS	ELED-TRK-H8	TRACK	-	LED	-	-	H TRACK FOR LED TRACK LIGHT HEADS - 8 FT. LENGTH, 3-WIRE, SINGLE CIRCUIT, CAN BE CUT TO DESIRED LENGTH, BLACK FINISH
XI	ELEDLIGHTS	ELED-EXIT-R-BB	WALL/CEILING	-	LED	120/2TTV	-	LED EMERGENCY EXIT SIGN W/ 90 MIN. BATTERY BACKUP
* PROVIDE EMERGENCY BALLAST W/TEST FOR ALL "E" SUFFIXED FIXTURES. * NL-DENOTES 24-HOUR NIGHTLIGHT								

GENERAL LIGHTING NOTES:

- WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 12 INCHES AFF. COORDINATE SWITCH LOCATIONS IN ROOMS WITH ARCHITECT AND OTHER DEVICES (THERMOSTATS, FIRE ALARM, AND CALL BUTTONS).
- MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT. MAXIMUM FIXTURE WHIP LENGTH FROM ANY J-BOX 6 FEET, LIGHTING CIRCUITS JOINTS SHALL BE MADE UP IN OVERHEAD J-BOXES SECURED TO STRUCTURE WITH LIGHTING WHIPS FROM THE J-BOXES. FIXTURES DESIGNED TO BE QUICK-CLIPPED TOGETHER SHALL BE CONNECTED AS PER MANUFACTURER.
- COORDINATE LIGHT LOCATIONS WITH OTHER CEILING ITEMS OR JOIST ITEMS PRIOR TO INSTALLATION. LIGHT LOCATIONS TAKE PRECEDENCE OVER AIR DEVICES.
- PROVIDE SECONDARY SUPPORT WIRES FROM ALL FOUR (4) CORNERS OF THE LAY-IN FIXTURES TO THE STRUCTURE ABOVE. DO NOT SUPPORT FIXTURES FROM CEILING GRID WIRE SUPPORTS, PIPING, CONDUIT, SIDE WALLS, OR MECHANICAL EQUIPMENT. CEILING SPECIFICATIONS DO NOT SUPERCEDE THIS REQUIREMENT.
- PROVIDE INTEGRAL BATTERY BACK-UP W/INTEGRAL BATTERY BACK-UP & TEST SWITCH FOR ALL FIXTURES WITH AND "E" SUFFIX.
- FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR. PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.
- PROVIDE AN EXTRA UNSWITCHED HOT LEG FOR EXITS, LIGHTS, NIGHTLIGHTS AND EMERGENCY LIGHTS. PROVIDE THE EXTRA UNSWITCHED HOT LEG FROM THE LINE SIDE OF THE CONTACTOR TO EACH EXIT AND EMERGENCY LIGHT AS INDICATED ON DRAWINGS. DO NOT ROUTE A SWITCHED (EITHER BY SWITCH OR CONTACTOR) HOT LEG TO EMERGENCY LIGHTS AND BALLASTS AS THIS WILL NOT ALLOW FOR PROPER OPERATION OF THE EMERGENCY/EXIT FIXTURE.
- PROVIDE (2) CONTACTORS ADJACENT TO NEW TENANT PANEL (1) & POLE CONTACTOR SHALL BE PROVIDED WITH PROGRAMMABLE ASTRONOMICAL TIMECLOCK WITH HOLIDAY SCHEDULE FOR "ON/OFF" CONTROL OF ALL INTERIOR LIGHTS COMPLETE WITH (3) 20 MINUTE MANUAL OVERRIDE SWITCHES. COORDINATE OVERRIDE SWITCH LOCATIONS WITH OWNER PRIOR TO INSTALLATION. THE SECOND CONTACTOR SHALL ALSO BE MOUNTED ADJACENT TO THE TENANT PANEL AND SHALL BE 4 POLE FOR CONTROL OF EXTERIOR LIGHTING AS NOTED. PROVIDE 120V FROM TENANT PANEL CIRCUIT "P-15".
- ALL EXIT & EMERGENCY LIGHTS SHALL BE CONNECTED TO NEAREST GENERAL LIGHTING CIRCUIT & REMAIN UN-SWITCHED.

LIGHTING KEYED NOTES :

- ALL NIGHTLIGHTS SHALL BE CONNECTED TO NIGHTLIGHT CIRCUIT "P-T" & REMAIN UN-SWITCHED.
- NEW TEAR DROP SPEAKER. COORDINATE WITH TENANT.
- MOUNT OUTLET @ 10'-0" A.F.F. FOR FLAT SCREEN TV. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- COORDINATE OUTLET MOUNTING HEIGHT FOR FLAT SCREEN TV WITH TENANT. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.



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

Revisions		
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1	OWNER REVISION	08.16.18
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EQUIPMENT SCHEDULE										
RESTAURANT EQUIPMENT										
MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	PHASE	AMPS	KW	HP	PLUG	CIRCUIT
EQ-31	BUFFET DISPLAY TABLE W/ TRAY SLIDE	TURBO AIR	#JBT-60	115	1	8.4	1.02	1/3	5-15P	P-71
EQ-4	BUFFET DISPLAY TABLE W/ TRAY SLIDE	TURBO AIR	#JBT-72	115	1	9.9	1.14	1/3	5-15P	P-73
EQ-5	POS STATION	---	---	120	1	---	0.10	---	---	P-6
EQ-6	BEER DISPENSER W/ TAP HANDLE DISPLAY	BOTTOMS UP	3 KEG W/ #BU6-1C- 4 TAP DISPLAY_BOLT ON	120	1	3.75	0.45	---	5-15P	P-67
EQ-7	REACH-IN FREEZER	TURBO AIR	#TSF-445D	115	1	10.5	1.21	3/4	5-15P	P-64
EQ-01	COLD FOOD WELL UNIT, DROP IN REFRIGERATED	APW KYOTT	#CW-1	120	1	4	0.40	1/5	5-15P	P-61
EQ-11	DOUGH MIXER	UNIVEX	#SL50 SILVERLINE SPIRAL MIXER	220	3	17.45	---	3.5	---	P-74,01,03
EQ-13	BAG IN BOX RACK	---	---	120	1	---	0.36	---	---	P-66
EQ-16	SODA MACHINE W/ ICE MAKER	COCA COLA	#FREESTYLE 7000	115	1	20	1.44	---	---	P-54
EQ-10	DOUGH DIVIDER/ROUNDER	UNIVEX	#SBDRI5	220	3	4.0	---	---	---	P-52,54,56
EQ-19	PIZZA DOUGH SPINNER	UNIVEX	#SPZ40	115	1	7.4	0.55	1	---	P-75
EQ-24	TEA URN	COCA COLA	---	120	1	---	0.10	---	---	P-57
EQ-20	FOOD PROCESSOR	XEBECO	#XeFP	115	1	4.29	0.49	6/4	---	P-62
EQ-32	PIZZA OVEN	MARRA FORNI	#RT130 (GAS FIRED)	120	1	12	1.44	---	---	P-77
EQ-33	GELATO MACHINE	SEVEL SHOWCASE SUM- SLIMLINE	#SLM 6	220	1	10	---	3/4	---	P-63,65
EQ-30	WALK-IN COOLER W/ REMOTE CONDENSER	---	---	200	1	---	9.12	---	---	P-50,60
EQ-40	DOUBLE 5 GAL. COLD BEVERAGE DISPENSER	CRATHCO	#D25-4	120	1	6	0.72	---	---	P-53; P-55
EQ-43	OPEN MERCHANDISER	TURBO AIR	#TOM-305B	115	1	7.5	0.86	1/3	5-15P	P-69
A30	MERCHANDISER	AMERI-TEX	---	120	1	---	0.36	---	---	P-26
EQ-50	FREESTANDING WIRE SHELVING	---	---	120	1	---	0.72	---	---	P-30

ALL EQUIPMENT TO BE COMMERCIAL GRADE AND TO BE NSF, UL EPH, ETL OR CSA SANITATION.

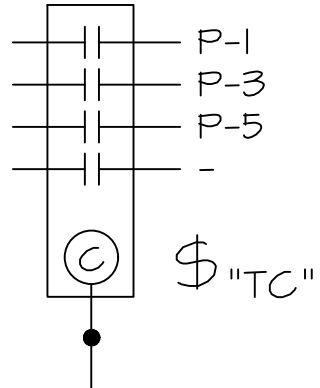
GENERAL NOTES:

- ALL UTILITY SERVICE RUNS ARE TO BE CONCEALED INSIDE THE BUILDING AND NOT EXPOSED TO THE EXTERIOR OF THE BUILDING'S ENVELOPE. OSA TO NOTE IN PERMIT RE-SUBMITTAL AND/OR ISSUED FOR CONSTRUCTION SET.
- ALL SLAB CUTS SHALL BE REPLACED WITH IDENTICAL SPECIFICATIONS THAT WERE USED ON THE SHELL BUILDING, WHICH ARE 5" THICK 3000 PSI CONCRETE WITH #3 REBARS, 10" OCHN AND A 10 mil VAPOR BARRIER, ALL OF WHICH ARE OVER COMPACTED SELECT FILL.
- ANY POWER/DATA PATHWAY OUTSIDE OF THE TENANT SPACE NEEDS TO BE INSTALLED IN METAL CONDUIT. OSA TO NOTE IN PERMIT RE-SUBMITTAL AND/OR ISSUED FOR CONSTRUCTION SET.
- SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS. COORDINATE THE LOCATIONS OF DATA/CATV JACKS WITH THE RECEPTACLES. MOUNT ADJACENT TO EACH OTHER.
- WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 12 INCHES AFF.
- MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT FOR INDIVIDUAL CIRCUITS, 3/4" CONDUIT FOR MULTIPLE CIRCUITS. ALL CONDUCTORS SHALL BE 75 DEGREE (MINIMUM) COPPER THHN, COLOR CODED AS PER NEC AND LOCAL AMENDMENTS WITH SIZE, TEMPERATURE, AND VOLTAGE PERMANENTLY PRINTED ON THE JACKET. ALL JOINTS SHALL BE MADE UP USING SELF LOCKING, TWIST-ON, COLOR CODED, SQUARE WIRE SPRING GRAB, LONG SKIRT, WIRE CONNECTORS WITH SHEET WINGS.
- PROVIDE #10 AWG MIN. NEUTRAL FOR ALL MULTIWIRE BRANCH CIRCUITS AND PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS AS REQUIRED BY NEC 210.4.
- CONDUCTOR SIZES INDICATED ASSUME NO MORE THAN (3) SINGLE POLE BRANCH CIRCUITS IN EACH CONDUIT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DE-RATE CONDUCTORS PER NEC TABLE 310.15(B)(2)(a) FOR CONDUITS WITH MORE THAN (3) CURRENT "CARRYING CONDUCTORS". THE NEUTRAL CONDUCTOR SHALL BE CONSIDERED "CURRENT CARRYING" FOR ALL BRANCH CIRCUITS SERVING MORE THAN (4) COMPUTERS.
- REFER TO VOLTAGE DROP FEEDER SCHEDULE FOR BRANCH CIRCUITS EXCEEDING 100' IN LENGTH.
- COORDINATE RECEPTACLE LOCATIONS WITH MILLWORK AND COUNTERS. DO NOT LOCATE RECEPTACLES BEHIND DRAWERS OR HIDDEN IN MILLWORK UNLESS SPECIFICALLY DIRECTED BY OWNER/ARCHITECT. REVIEW ARCHITECTURAL ELEVATIONS PRIOR TO RECEPTACLE ROUGH-INS. SEE ARCH. ELEVATIONS IN BREAKROOMS FOR APPLIANCES AND RECEPTACLE MOUNTING LOCATIONS.
- MOUNT RECEPTACLES 18" AFF, 6" ABOVE BACKSPLASH AT COUNTERS, 42" IN TOILET ROOMS, AT EQUIPMENT ROUGH-IN LOCATIONS FOR APPLIANCES, AND 9" FOR TV'S. PROVIDE GFCI RECEPTACLES AT/LOCATED ALL SINKS, ROOFTOP RECEPTACLES, KITCHEN RECEPTACLES, BATHROOM/TOILET ROOMS, EXTERIOR RECEPTACLES, AND UNDERCOUNTER EQUIPMENT. ALSO, ALL RECEPTACLES SERVING DRINKING FOUNTAINS AND IN KITCHEN SHALL BE GFCI PROTECTED.
- ALL EQUIPMENT SHALL HAVE A LOCAL DISCONNECTING MEANS, EITHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT. VERIFY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT OR RECEPTACLE. IF DIRECT CONNECT, PROVIDE SWITCH AS PER NEC OTHERWISE, PROVIDE RECEPTACLE, CORD PLUG AS AS REQUIRED BY EQUIPMENT SUBMITTAL.
- FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR.
- PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.
- ALL RECEPTACLES LOCATED IN KITCHEN/PREP/BAR AREA SHALL BE PROVIDED WITH GFCI PROTECTION, EITHER AT THE OUTLET OR BREAKER.

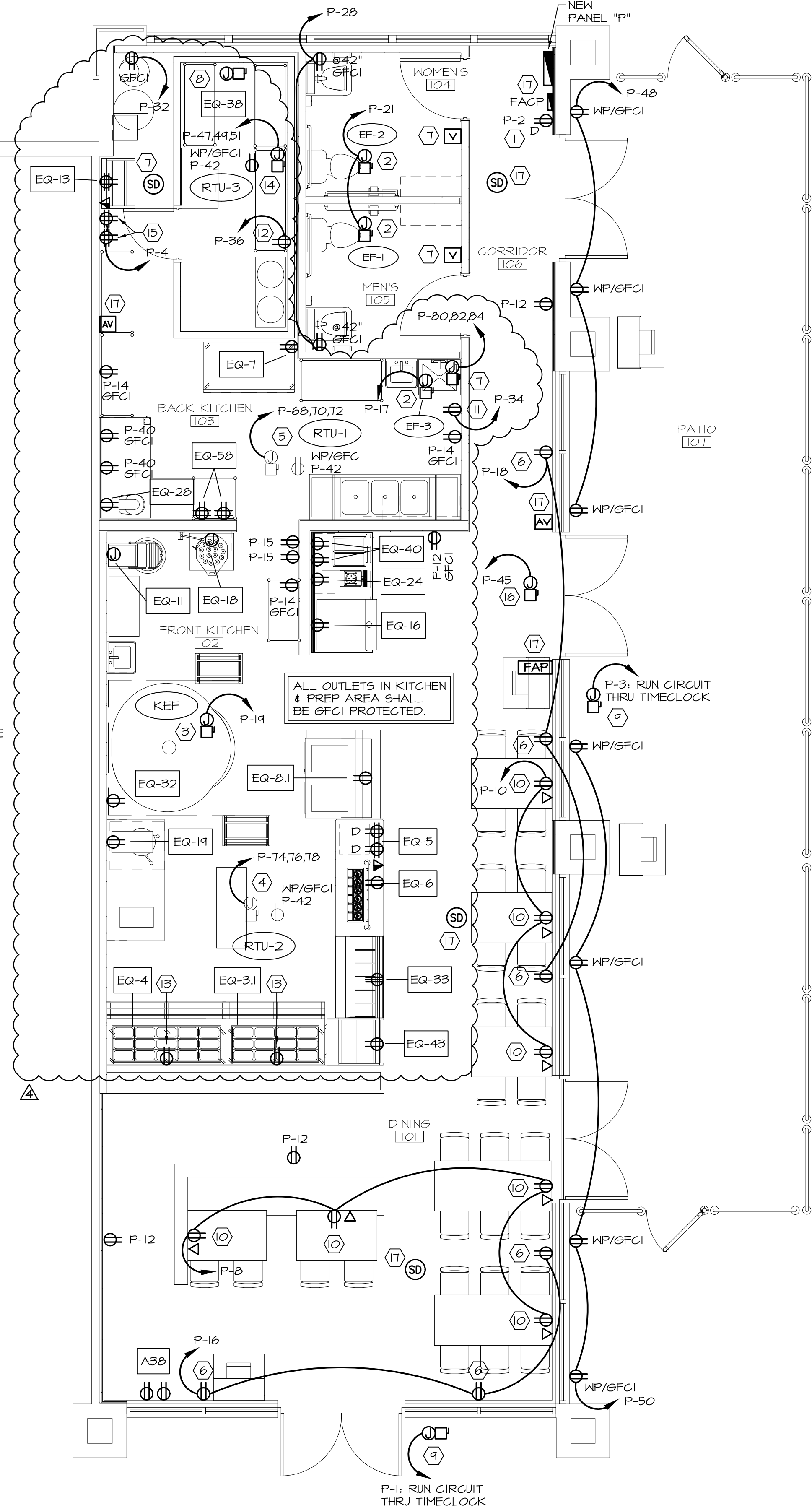
POWER KEYED NOTES :

- FIELD COORDINATE EXACT LOCATION OF LANDLORD TELEPHONE SERVICE STUB-IN AND EXTEND AS REQUIRED FOR CONNECTION TO TENANT TELEPHONE EQUIPMENT. PROVIDE 3/4" PLYWOOD BACKBOARD FOR MOUNTING OF ELECTRICAL AND TELEPHONE EQUIPMENT. SIZE AND SECURE AS REQUIRED. PROVIDE SEPARATE GROUND DUPLEX RECEPTACLE FOR POWER TO TELEPHONE EQUIPMENT.
- J-BOX # 30A/2P/120V/FUSED 20A/N-1 DISCONNECT SWITCH FOR EXHAUST FAN. REFER TO MECHANICAL FOR CONTROL.
- J-BOX # 30A/2P/120V/FUSED 20A/N-3R DISCONNECT SWITCH FOR KITCHEN EXHAUST FAN. REFER TO MECHANICAL FOR CONTROL.
- EXISTING J-BOX # 30A/3P/200V/FUSED 25A/N-3R DISCONNECT SWITCH FOR ROOFTOP HVAC UNIT. EXISTING WP/GFCI RECEPTACLE @ UNIT. RE-WIRE TO NEW PANEL SHOWN. FIELD COORDINATE EXISTING CONDITIONS.
- EXISTING J-BOX # 30A/3P/200V/FUSED 30A/N-3R DISCONNECT SWITCH FOR ROOFTOP HVAC UNIT. EXISTING WP/GFCI RECEPTACLE @ UNIT. RE-WIRE TO NEW PANEL SHOWN. FIELD COORDINATE EXISTING CONDITIONS.
- FLUSH MOUNTED OUTLET HORIZONTAL ON WALL/SOFFIT ABOVE WINDOW.
- J-BOX # 60A/3P/200V/NF/N-1 DISCONNECT SWITCH FOR WATER HEATER.
- J-BOX # 60A/2P/200V/NF/N-1 DISCONNECT SWITCH FOR WALK-IN COOLER.
- J-BOX # 30A/2P/115V/NF/N-3R DISCONNECT SWITCH TO BE MOUNTED WITHIN 6'-0" OF BULKHEAD, TRANSFORMER AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR. SIGN ON TIME CLOCK BY E.C.
- DUPLEX RECEPTACLE WITH (1) STANDARD USB AND (1) USB-C, IN WALL. FIELD COORDINATE LOCATION & REQUIREMENTS PRIOR TO SUBMITTING A BID.
- MOUNT RECEPTACLE ABOVE CEILING FOR CIRCULATION PUMP. FIELD COORDINATE LOCATION.
- OUTLET MOUNTED ABOVE WALK-IN COOLER FOR POWER PACK. FIELD COORDINATE LOCATION.
- MOUNT OUTLET HORIZONTALLY. FIELD COORDINATE LOCATION.
- J-BOX # 60A/3P/200V/FUSED 50A/N-3R DISCONNECT SWITCH FOR ROOFTOP HVAC UNIT. WP/GFCI RECEPTACLE @ UNIT. CONNECT NEW OUTLET TO EXISTING CIRCUIT.
- ALTEX A/V EQUIP. & SECURITY ENCLOSURE TO BE MOUNTED AT CEILING, COORD. W/ OWNER. PROVIDE BLOCKING AS REQ'D. NOTE TO ELEC. PROVIDE 2 QUAD RECEPTACLES FOR A/V & SECURITY EQUIP.
- J-BOX # 30A/2P/120V/NF/N-1 DISCONNECT SWITCH FOR AIR CURTAIN.
- FIRE ALARM SYSTEM, REFER TO SHEET E3.

LIGHTING CONTACTOR W/ ENCLOSED COVER SQUARE D #8903-LG-4 W/ 30 AMP CONTACTS. ELECTRICALLY HELD W/ 120V CONTROL.



2 SIGN CONTACTOR NO SCALE



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

Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
3	PERMIT COMMENTS	10.02.18
4	PERMIT COMMENTS	10.17.18

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URBAN BRICKS PIZZA CO. -  
VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: EHW  
checked by: DP  
drawing title:

POWER PLAN  
drawing number:

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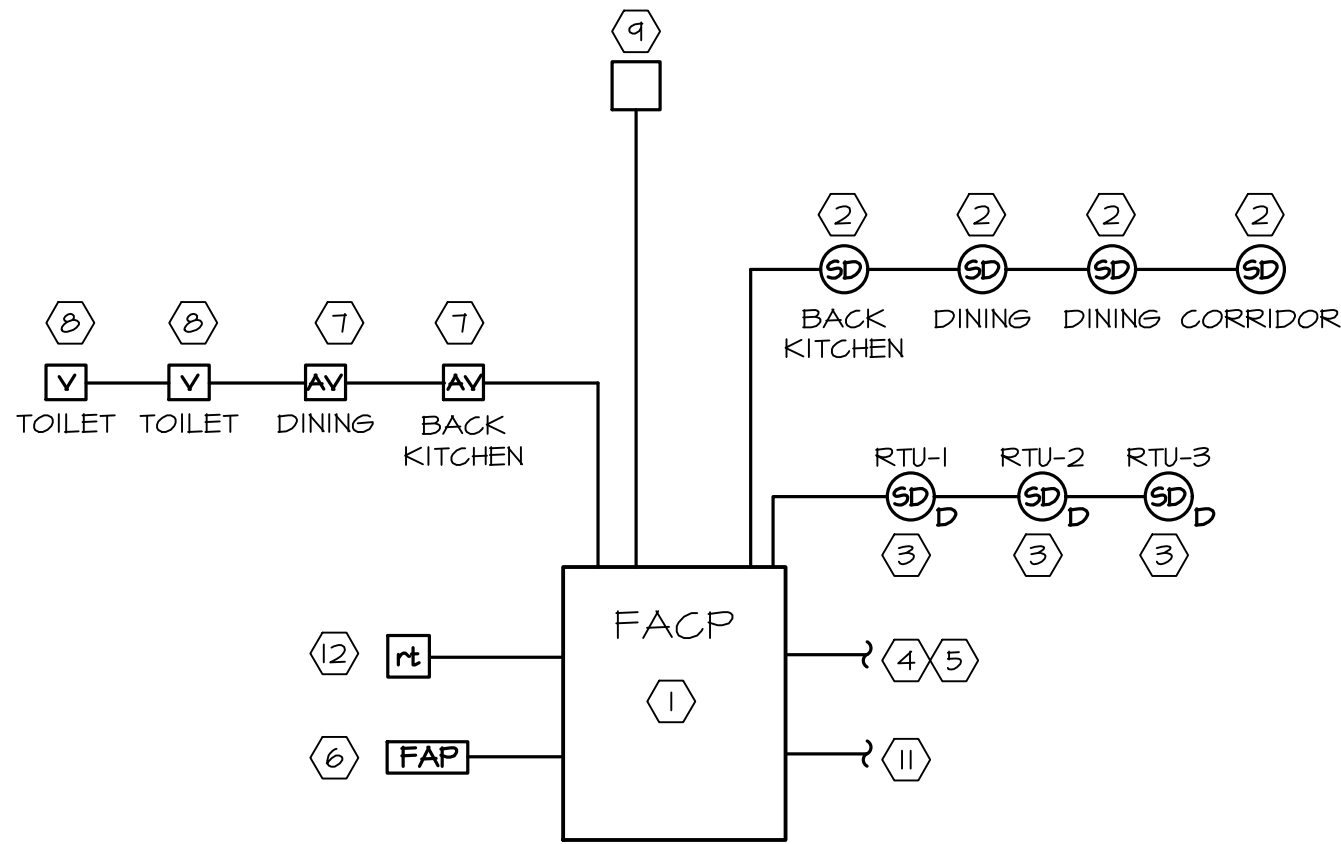


SYMBOL LEGEND	
SYMBOL	DESCRIPTION
S	SINGLE POLE SWITCH
S <sub>2</sub>	DOUBLE POLE SWITCH
⊗	OCCUPANCY SENSOR
Ⓜ	PHOTO CELL
▼	TELEPHONE OUTLET
▽	CABLE OUTLET
▽	TELEPHONE AND DATA OUTLET
□	DISCONNECT SWITCH (NF = NO FUSE)
□ ⊗	JUNCTION BOX
▤	PANELBOARD
T	TRANSFORMER
⊕	DUPLEX RECEPTACLE OUTLET
⊕ <sub>CLG</sub>	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET
⊕	DOUBLE DUPLEX RECEPTACLE OUTLET
⊕ <sub>D</sub>	DEDICATED OUTLETS W/ SEPARATE GROUND
AV	AUDIO/VISUAL FIRE ALARM DEVICE (HORN/STROBE) INSTALL ONLY AS REQUIRED
✓	VISUAL FIRE ALARM DEVICE (STROBE) INSTALL ONLY AS REQUIRED
AFF	ABOVE FINISHED FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHERPROOF

### FIRE ALARM

THE CONTRACTOR SHALL MODIFY THE EXISTING FIRE ALARM SYSTEM AS REQUIRED, VERIFY THE SYSTEM MEETS CURRENT LOCAL CODE REQUIREMENTS.

THE FIRE ALARM ZONES SHALL BE PROVIDED W/ INDIVIDUAL ANNUNCIATORS.  
- AREA SMOKE DETECTORS  
- DUCT DETECTOR IN RETURN AIR  
ACTIVATION OF ANY ZONE SHALL SOUND A GENERAL ALARM AND SHALL SHUT DOWN THE HVAC SYSTEM. THE ACTIVATION OF ANY OF THESE ZONES OR THE TAMPER SWITCH ON TENANT SPACE CONTROL VALVE SHALL PROVIDE A SUPERVISORY SIGNAL AT THE PANEL AND ANY MONITORING COMPANY.  
ACTIVATION SHALL ALSO SHUT OFF ALL GAS FLOW.



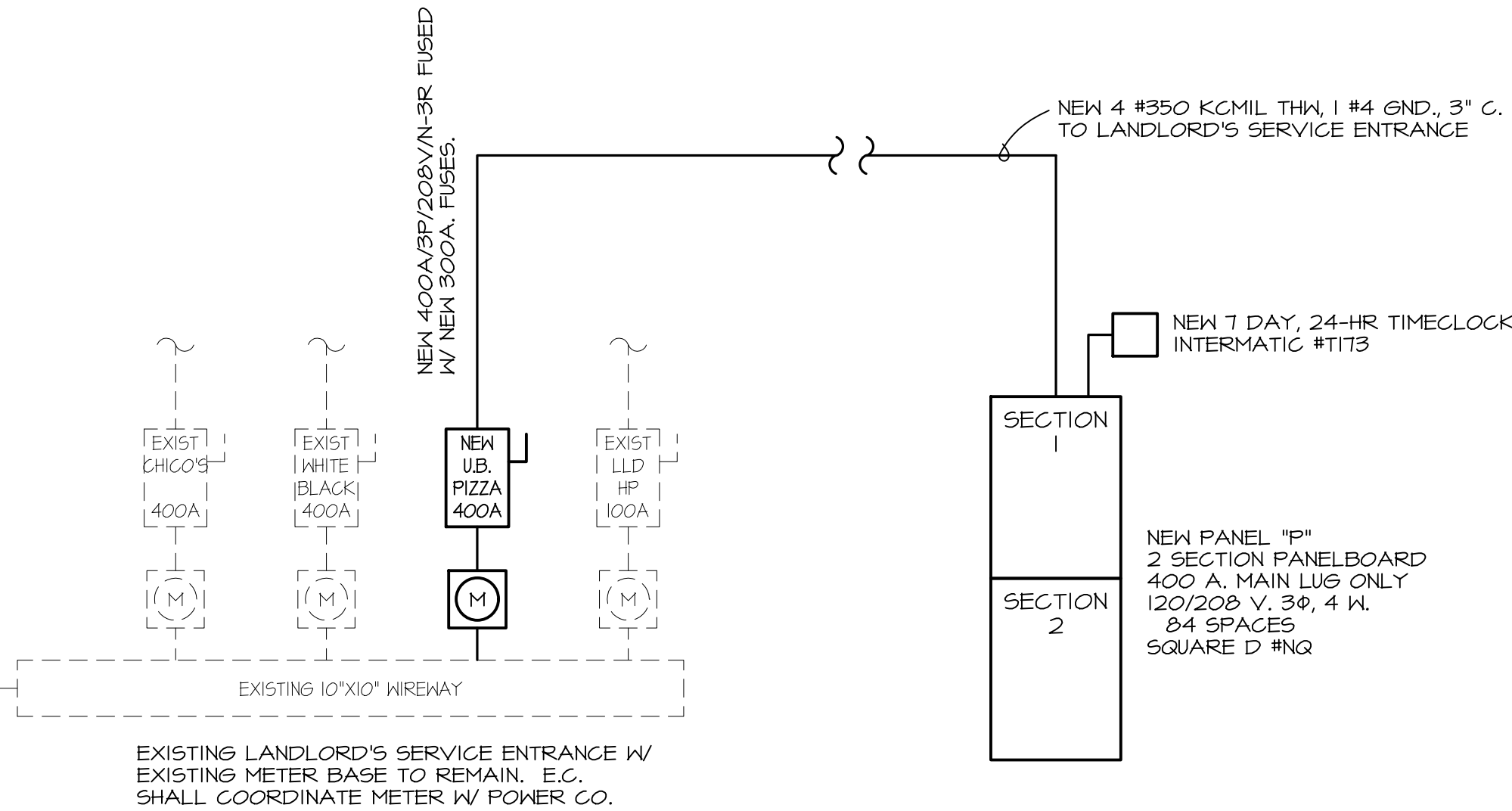
3 FIRE ALARM CONTROL DIAGRAM  
NOT TO SCALE

#### FIRE ALARM KEYED NOTES:

- TENANT'S FIRE ALARM CONTROL PANEL WITH 24-HOUR BATTERY BACKUP
- AREA SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- WIRE TO RELAY TO SHUT DOWN GAS
- WIRE TO RELAY TO SHUT DOWN HVAC UNIT
- MANUAL FIRE ALARM PULL
- AUDIO/VISUAL ALARM DEVICE
- VISUAL ALARM DEVICE
- ADDRESSABLE INTERFACE DEVICE (MONITOR ZAM) INSTALLED IN JUNCTION BOX
- 120V POWER SUPPLY
- REMOTE TEST & ALARM STATION

BUILDING "H" LOAD ANALYSIS		
SPACE / TENANT	KW	AMPS
CHICO'S	14.4	221
WHITE/BLACK MKT	16.5	213
URBAN BRICK PIZZA	84.1	234
LANDLORD'S HOUSE PNL	11.73	33
TOTALS	251.73	701

EXISTING 800AF DISCONNECT 120/208V 3PH/4WIRE N-3R 100,000 AIC



### ELECTRICAL RISER

NOTE: THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.

NEW PANELBOARD "P"													
120/208 VOLT / 3 PHASE / 4 WIRE													
400A MAIN LUG ONLY													
MOUNTING: SURFACE													
2 SECTION: SINGLE LUGS													
NEMA-1													
22,000 A.I.C. RATING													
wire	ckt	DESCRIPTION	C.B.	VA LOAD	ΦA	ΦB	ΦC	VA LOAD	C.B.	DESCRIPTION	ckt	wire	
#12	1	SIGNAGE	20	1200	*			180	20	TELEPHONE BOARD	2	#12	
#12	3	SIGNAGE	20	1200	*			120	20	OUTLETS-AV/SECURITY	4	#12	
-	5	-	-	-	*			120	20	OUTLET-CASH REGISTER (5)	6	#12	
#12	7	NIGHTLIGHTS	20	180	*			120	20	OUTLETS-DINING	8	#12	
#12	9	DINING/TR	20	964	*			540	20	OUTLETS-DINING	10	#12	
#12	11	KITCHEN LIGHTS	20	480	*			120	20	OUTLETS-GENERAL	12	#12	
#12	13	TRACK LIGHTS	20	480	*			120	20	OUTLETS-KITCHEN	14	#12	
#12	15	TIMECLOCK/PHOTOCELL	20	200	*			540	20	OUTLETS-CEILING	16	#12	
#12	17	EF-3	20	17	*			540	20	OUTLETS-CEILING	18	#12	
#12	19	KEF	20	120	*			360	20	OUTLETS-TVS	20	#12	
#12	21	EF-1 & EF-2	20	66	*			360	20	OUTLETS-TVS	22	#12	
-	23	-	-	-	*			180	20	OUTLETS-TVS	24	#12	
-	25	-	-	-	*			360	20	OUTLET-MERCHANDISER (A38)	26	#12	
-	27	-	-	-	*			360	20	OUTLETS-TOILET ROOM	28	#12	
-	29	-	-	-	*			-	-	-	30	-	
-	31	-	-	-	*			180	20	WATER SOFTENER	32	#12	
-	33	-	-	-	*			500	20	OUTLET-CIRCULATION PUMP	34	#12	
-	35	-	-	-	*			1760	20	POWER PACK	36	#12	
-	37	-	-	-	*			120	20	OUTLETS-KITCHEN	38	#12	
-	39	-	-	-	*			360	20	OUTLETS-KITCHEN	40	#12	
-	41	-	-	-	*			540	20	OUTLETS-ROOF	42	#12	
-	43	-	-	-	*			-	-	-	44	-	
#12	45	AIR CURTAIN	20	408	*			360	20	OUTLETS-EXTERIOR TVS	46	#12	
#8	47	RTU-3	50	5045	*			540	20	OUTLETS-EXTERIOR	48	#12	
#8	49	"	"	5045	*			120	20	OUTLETS-EXTERIOR	50	#12	
#8	51	"	3	5045	*			508	20	DOUGH ROUNDER (18)	52	#12	
#12	53	BEVERAGE DISPENSER (40)	20	720	*			508		"	54	#12	
#12	55	BEVERAGE DISPENSER (40)	20	720	*			508	3	"	56	#12	
#12	57	TEA URN (24)	20	180	*			4560	60	WALK-IN COOLER (38)	58	#6	
#12	59	SODA MACHINE (16)	20	1440	*			4560	2	"	60	#6	
#12	61	COLD WELL (8-1)	20	480	*			440	20	FOOD PROCESSOR (28)	62	#12	
#12	63	GELATO MACHINE (33)	20	1100	*			1210	20	REACH-IN FREEZER (7)	64	#12	
#12	65	"	2	1100	*			360	20	BAG IN BOX (13)	66	#12	
#12	67	BEER DISPENSER (6)	20	450	*			2822	30	RTU-1	68	#10	
#12	69	OPEN MERCHANDISER (43)	20	860	*			2822		"	70	#10	
#12	71	BUFFET DISPLAY TABLE (3-1)	20	1020	*			2822	3	"	72	#10	
#12	73	BUFFET DISPLAY TABLE (4)	20	1140	*			2324	25	RTU-2	74	#10	
#12	75	DOUGH SPINNER (14)	20	550	*			2324		"	76	#10	
#12	77	OVEN (32)	20/ST	1440	*			2324	3	"	78	#10	
#10	79	DOUGH MIXER (11)	30	2220	*			5000	60	WATER HEATER	80	#6	
#10	81	"	"	2220	*			5000		"	82	#6	
#10	83	"	3	2220	*			5000	3	"	84	#6	
VA LOAD PER PHASE				21144	33012	34328	CONNECTED LOAD = 94.53 KW DEMAND LOAD = 83.44 KW 234 AMPS						

#### NOTES:

- PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.
- ST = SHUNT TRIP BREAKER
- LOCK-ON BREAKER
- DEDICATED CIRCUIT W/ SEPARATE GROUND
- RUN CIRCUIT THRU TIMECLOCK
- RE-WIRE EXISTING BREAKER TO NEW PANEL

LOAD ANALYSIS			
LOAD	CONNECTED	FACTOR	DEMAND
SIGNAGE	2.4 KW	1.25	3.0 KW
LIGHTING	2.32 KW	1.25	2.90 KW
CONV. OUTLETS	10.0 KW	1.00	10.0 KW
CONV. OUTLETS	2.4 KW	0.50	1.2 KW
AIR COND.	31.15 KW	1.00	31.15 KW
HEATING	Included	1.00	-0- KW
MOTOR	0.5 KW	1.25	0.63 KW
MOTORS	0.2 KW	1.00	0.2 KW
WATER HEATER	15.0 KW	1.00	15.0 KW
EQUIPMENT	30.56 KW	0.65	19.86 KW
TOTAL DEMAND= 83.44 KW			
83,440 W @ 208V/3φ = 234 A.			

## URBAN BRICKS PIZZA CO. - VERO BEACH

2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #:	18.138
date:	07.20.18
drawn by:	EHW
checked by:	DP
drawing title:	

### ELECTRICAL SCHEDULES

drawing number:

Revisions		
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GENERAL ELECTRICAL NOTES: (AS APPLICABLE)

61. COMPLETE SYSTEMS: PROVIDE LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION TO RECEIVE, INSTALL, ADJUST, AND PUT INTO OPERATION COMPLETE ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. PROVIDE PRODUCTS NOT MENTIONED BUT OBVIOUSLY NECESSARY AND INCIDENTAL TO THE COMPLETION OF THIS WORK.

62. SCOPE: WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: MECHANICAL WORK AS REQUIRED FOR COORDINATION, POWER DISTRIBUTION, FIRE ALARM SYSTEM, AND INSTALLATION OF MATERIALS.

63. UTILITIES: COORDINATE WITH ALL UTILITY SERVICES. NOTIFY UTILITIES OF COMMENCEMENT OF WORK. MAKE ALL ARRANGEMENTS FOR TEMPORARY SERVICES. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLY WITH ALL UTILITY REGULATIONS AND REQUIREMENTS.

64. PERMITS: OBTAIN ALL NECESSARY PERMITS TO BEGIN AND CONTINUE WITH WORK. PAY ALL ASSOCIATED FEES FOR PERMITS AND OTHER MUNICIPAL AND GOVERNING REQUIREMENTS.

65. EXPERIENCE: ALL WORK DONE SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS, UNDER THE SUPERVISION AND DIRECTION OF A SUPERINTENDENT HAVING SUCCESSFUL EXPERIENCE INSTALLING AND SUPERVISING EQUIPMENT AND SYSTEMS OF SIMILAR TYPE AND SIZE AS INDICATED BY CONTRACT DOCUMENTS.

66. REGULATIONS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT RULES, REGULATIONS, AND INDUSTRY STANDARDS OF THE N.E.C., UL, IPCA, NEMA, NFPA, OSHA, NATIONAL ELECTRICAL SAFETY CODE, AND ANY LOCAL CODES, LAWS, ADA OR ORDINANCES.

IN THE EVENT THAT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

67. COSTS AND CONDITIONS: EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SURVEY THE PROJECT AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND SCOPE OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED, ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

68. SPECIFICATIONS: BECOME FAMILIAR WITH ALL SPECIFICATIONS, DESIGN CRITERIA, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. REFERENCE SPECIFICATIONS FOR DEVICES, MATERIALS AND WORKMANSHIP REQUIREMENTS. ADDITIONAL REQUIREMENTS ARE GIVEN IN THESE NOTES AND THE DRAWINGS. THERE SHALL BE NO DEVIATION FROM SPECIFICATIONS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

69. COORDINATION: COORDINATE WORK WITH ALL OTHER TRADES. GIVE SPECIAL CONSIDERATION TO COORDINATING INSTALLATION OF LIGHTING, SPRINKLER PIPING, AND DUCTWORK. COORDINATE WALL OUTLET LOCATIONS WITH MILLWORK. COORDINATE WALL SWITCHES WITH DOOR SWINGS. VERIFY EXACT LOCATION, COLOR AND FINISH OF OUTLETS AND DEVICES WITH INTERIOR DESIGNER, ARCHITECT, OR DESIGNATED TENANT REPRESENTATIVE PRIOR TO INSTALLATION.

610. PRODUCTS: ALL PRODUCTS SHALL BE NEW, SPECIFICATION GRADE. PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER. PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS OTHERWISE REQUIRED BY DRAWINGS. ALL PRODUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NATIONALLY RECOGNIZED AND ACCEPTED STANDARDS AND PROCEDURES.

611. COMPATIBILITY: ALL NEW ELECTRICAL DISTRIBUTION EQUIPMENT SHALL MATCH AND BE COMPATIBLE WITH EXISTING EQUIPMENT, BY MANUFACTURER TYPE, APPLICATION, AND SHORT CIRCUIT RATING.

612. IDENTIFICATION: ALL ELECTRICAL DISTRIBUTION EQUIPMENT, TRANSFORMERS, PANELBOARDS AND OTHER ENCLOSED EQUIPMENT SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS. SAID IDENTIFICATION SHALL CONSIST OF PERMANENTLY ATTACHED ENGRAVED LAMINATED PLASTIC NAMEPLATES. EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND SCHEDULED INSIDE PANEL DOOR. EACH BRANCH CIRCUIT SPLICE OR TERMINATION SHALL BE IDENTIFIED BY PANEL AND CIRCUIT DESIGNATION SHOWN ON THE JUNCTION OR OUTLET BOX, OR UPON INDIVIDUAL WIRES IN CASES WHERE MORE THAN ONE OF EACH PHASE CONDUCTOR OCCUR.

613. WIRING: ALL CONDUCTORS CARRYING GREATER THAN 50 VOLTS SHALL BE MINIMUM #12 AWG, SOLID, CU, SOFT DRAWN OF 98% CONDUCTIVITY, UNLESS NOTED OTHERWISE.

INSULATION: PROVIDE TYPE THW, THWN, THHN, OR XHHW TYPE INSULATIONS. COORDINATE INSULATION TYPES WITH CONDITIONS, NEC REQUIREMENTS, AND CONDUIT FILL REQUIREMENTS. ALL WIRING SIZES ARE BASED ON 60° C OR 75° C INSULATION, ACCORDING TO CURRENT RATINGS, REGARDLESS OF ACTUAL INSULATION USED. TYPE "AG" OR "MC" CABLE IS ACCEPTABLE ONLY WITH TYPE THHN INSULATION.

HOME RUNS: PROVIDE MINIMUM # 10 AWG WIRING ON ALL HOMERUNS GREATER THAN 100 FEET.

NEUTRALS: SIZE ALL NEUTRALS FULL UNLESS SPECIFICALLY REDUCED ON PLANS. PROVIDE OVERSIZED NEUTRALS FOR FEEDERS AND SEPARATE NEUTRALS FOR BRANCH CIRCUITS SERVING DIGITAL COMPUTER EQUIPMENT.

COLORS:			
PHASE:	208V WYE	240V DELTA	480V
A	BLACK	BLACK	BROWN
B	RED	ORANGE (HIGH LEG)	ORANGE
C	BLUE	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	WHITE W/ COLORED STRIP
GROUND	GREEN	GREEN	GREEN

614. GROUNDING: ALL CIRCUITS SHALL BE RUN WITH A #12 AWG INSULATED GREEN COPPER GROUND WIRE, UNLESS OTHERWISE NOTED. USE OF CONDUIT AS A GROUND IS UNACCEPTABLE.

AT SERVICE: PROVIDE BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS. PROVIDE GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES PER NEC.

615. CONDUIT: ALL WIRING SHALL BE IN CONDUIT, MINIMUM 1/2" (E.M.T. IS ACCEPTABLE WITH COMPRESSION FITTINGS ONLY ). FLEXIBLE METAL CONDUIT IS ACCEPTABLE ONLY WITH SEPARATE INSULATED GROUND WIRE, AND ONLY FOR SWITCH DROPS OR LIGHTING FIXTURE WHIPS. ENT, ALUMINUM CONDUIT, NM ("ROMEX"), NMC, AND SNM ARE NOT ACCEPTABLE.

RIGID CONDUIT: CONDUIT OVER 2" IN DIAMETER, OR EXPOSED TO WEATHER, OR EXPOSED TO POTENTIAL DAMAGE, OR USED FOR SERVICE ENTRANCE SHALL BE GALVANIZED RIGID STEEL TYPE.

PVC CONDUIT: PVC CONDUIT, MINIMUM SCHEDULE 40, IS ACCEPTABLE ONLY FOR USE BELOW GRADE, AND ONLY WHEN INSTALLED WITH WIDE RADIUS RIGID STEEL TURNS.

ROUTING: CONDUIT ROUTING SHOWN IS SYMBOLIC AND DIAGRAMMATIC. INSTALL CONDUIT TO FIT ACTUAL FIELD CONDITIONS.

BELOW GRADE: COVER METALLIC CONDUIT BELOW GRADE WITH ASPHALTUM OR BITUMASTIC TAPE. SEAL JOINTS AGAINST WATER.

616. CONDUIT FITTINGS: ALL FITTING SHALL BE COMPRESSION OR THREADED TYPE. USE OF SET SCREW FITTINGS IS NOT ACCEPTABLE.

617. CIRCUIT BREAKERS: ALL BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICES SHALL BE 20 AMPERE INVERSE TIME TYPE CIRCUIT BREAKERS UNLESS NOTED OTHERWISE. 120/240 VOLT CIRCUIT BREAKERS SHALL BE RATED AT 10,000 AIC MINIMUM. MULTI-POLE BREAKERS SHALL BE INTEGRAL UNITS. USE OF HANDLE TIES IS NOT ACCEPTABLE.

618. FUSES: ALL FUSES 600 AMPERES OR LESS SHALL BE UL LISTED, CLASS RK1 OR J, LOW-PEAK, DUAL ELEMENT, TIME DELAY, 600 VOLT. ACCEPTABLE MANUFACTURERS: BUSSMAN, GOULD SHANNUT.

619. PENETRATIONS: ALL PENETRATIONS THROUGH FIRE-RATED SLABS AND PARTITIONS SHALL BE FIRE PROOFED TO THE SAME OR GREATER RATING THAN THAT OF THE SLAB OR PARTITION. WHERE CONFLICTS OCCUR, NOTIFY ARCHITECT OR INTERIOR DESIGNER.

620. ALTERNATES & SUBSTITUTIONS: SUBMIT FOR APPROVAL ALTERNATES OF ALL ITEMS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BEAR THE BURDEN OF SHOWING PROOF THAT ALTERNATES REQUESTED FOR SUBSTITUTION PERFORM IN AN EQUAL OR SUPERIOR MANNER TO THE SPECIFIED ITEM. INFORMATION SUBMITTED FOR ENGINEER'S CONSIDERATION SHOULD INCLUDE PERFORMANCE CHARACTERISTICS, ILLUSTRATION OF FIELD APPLICATION, AND COMPARISON OF THE SPECIFIED ITEM TO THE INTENDED ALTERNATE.

"ALTERNATE" REFERS TO A LUMINAIRE, FIXTURE, DEVICE, EQUIPMENT ITEM, OR MANUFACTURER OTHER THAN THAT SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

621. SHOP DRAWINGS & SUBMITTALS: SUBMIT MANUFACTURERS' STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, PHYSICAL DIMENSIONS, AND OTHER INFORMATION NECESSARY FOR ENGINEER TO INSURE COMPLIANCE WITH SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT.

622. PROJECT RECORD DOCUMENTS: UPON COMPLETION OF WORK, PREPARE LIGHTING AND POWER PROJECT RECORD DOCUMENTS ("AS-BUILTS") ON A SUITABLY REPRODUCIBLE MEDIUM (MYLAR OR VELLUM ). PRESENT COMPLETED DRAWINGS TO TENANT, AND TWO SETS OF PRINTS TO INTERIOR DESIGNER OR ARCHITECT. "AS-BUILT" DRAWINGS SHALL INCLUDE ALL BRANCH CIRCUIT WORK, ANY PANELBOARD INFORMATION AVAILABLE, FINAL SWITCHING, ETC.

623. WARRANTY: WARRANT ALL MATERIALS, EQUIPMENT AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY TENANT.

- TEMPORARY SERVICES
- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:
- A. TELEPHONE - THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.
- B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.
- C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.
- D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.
- E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE PROVISIONS OR COORDINATE WITH LANDLORD'S GENERAL CONTRACTOR TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

PANELBOARDS: (AS APPLICABLE)

THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ELECTRICAL DRAWINGS FOR SPECIFIC PANELBOARD REQUIREMENTS. THE PANEL BOARD SCHEDULE SPECIFY VOLTAGE CHARACTERISTICS, MAINS, LUG SIZE, LOCATION AND NUMBER, BRANCH CIRCUIT SIZE NUMBER AND LOCATION. ALSO MOUNTING METHOD AND TRIM.

APPROVED MANUFACTURERS ARE SQUARE "D", WESTINGHOUSE, GENERAL ELECTRIC, OR EQUAL.

THE ABOVE EQUIPMENT SHALL BE FACTORY ASSEMBLED UNIT ONLY NOT ASSEMBLY OF MISCELLANEOUS PARTS.

PANELBOARD ENCLOSURE SHALL BE CODE GAUGE GALVANIZED SHEET STEEL WITH CORNERS LAPPED AND RIVETED OR FORMED THE ENCLOSURE SHALL BE PAINTED AS SPECIFIED HEREIN.

PANELBOARD TRIM SHALL BE FOR SURFACE OR RECESSED MOUNTING MOUNTING AS INDICATED BY THE PANEL SCHEMATICS. TRIM SHALL BE FULL FINISH STEEL FASTENED TO CABINET (ENCLOSED) BY APPROVED ADJUSTABLE CLAMPS.

PANELBOARD HINGES SHALL BE SEMI-CONCEALED FIVE KNUCKLE STEEL WITH NONFERROUS PINS, 180 DEGREE OPENING, AND LOCATE NOT MORE THAN 4" FROM TOP AND BOTTOM NOR GREATER THAN 26" ON CENTER.

PANELBOARD HARDWARE SHALL BE CHROME PLATED FLUSH TYPE COMBINATION LOCK AND CATCH WITH TWO KEYS. DOORS OVER 43" HIGH SHALL HAVE CHROME PLATED VAULT HANDLE, BUILT-IN LOCK AND 3 POINT CATCH FASTENING DOOR AT TOP, CENTER AND BOTTOM

PANELBOARD DIRECTORY HOLDER SHALL BE A METAL FRAME WITH NON-BREAKER TRANSPARENT COVER AND TYPE WRITTEN LIST OF CIRCUITS SHOWING POINTS SUPPLIED.

PANELBOARD NAME PLATES SHALL BE LAMINATED MICARTA, AND FURNISHED ON EACH PANEL TO INDICATE THE PANEL, AND PANEL VOLTAGE VOLTAGE.

PANELBOARD MOUNTING HEIGHT SHALL BE 6'-6" MAXIMUM FROM FINISHED FLOOR TO CENTER LINE OF TOP SWITCH OR CIRCUIT BREAKER UNLESS INDICATED OTHERWISE.

CIRCUIT BREAKERS QUICK-MAKE, QUICK-BREAK, THERMAL MAGNETIC WITH NON-HELDING TYPE CONTACTS. BREAKERS SHALL BE BOLTED TO THE PANEL BUS, UNLESS NOTED OTHERWISE. BREAKERS SHALL BE TRIP SET TO 20 AMPS.

TWO AND THREE POLE CIRCUIT BREAKERS TO BE COMMON TRIP. LIGHTING CIRCUIT BREAKER TO BE "SND" RATED.

GROUNDING AND BONDING: (AS APPLICABLE)

FURNISH AND INSTALL A COMPLETE WIRED GROUNDING SYSTEM MINIMUM #12 AWG, GREEN, CONDUIT GROUNDS ARE NOT ACCEPTABLE

WHERE REQUIRED, EMT CONNECTORS OR FLEXIBLE CONDUIT FITTINGS SHALL BE BONDED USING A CONDUIT LOCKNUT, T & B SERIES #108, OR EQUAL, UL LISTED.

GROUND TERMINAL RODS SHALL BE NOT LESS THAN 1/2" DIAMETER AND 8 FEET LONG. SHALL BE MADE OF COPPER CLAD STEEL.

CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL ENCLOSURES AND NON-CURRENT CARRYING METALS TO BE GROUNDED ALL LOCK NUTS MUST CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM USE BONDING JUMPERS WITH APPROVED CLAMPS.

ALL NEW RECEPTACLES SHALL BE BONDED TO A GROUND CONDUCTOR USING A #12 AWG, MINIMUM BONDING JUMPER BETWEEN RECEPTACLE TERMINAL AND GROUND CONDUCTOR. METAL-TO-METAL CONTACT ACCEPTABLE FOR OTHER SURFACES BOXES OR FLUSH TYPE BOXES, BOXES OR FLUSH TYPE BOXES.

MOTOR AND EQUIPMENT TERMINAL BOXES SHALL BE GROUNDED BY THE USE OF A MANUFACTURER-SUPPLIED GROUND LUG OR BY DRILLING AND TAPPING A HOLE FOR A GROUND SCREW. REMOVE PAINT PRIOR

LIGHTING FIXTURES SHALL BE GROUNDED BY THE USE OF A PIGTAIL FASTENED ON BARE METAL THAT IS FREE OF PAINT.

GENERAL LIGHTING NOTES: (AS APPLICABLE)

L1. FIXTURE TYPES: REFERENCE LIGHTING FIXTURE SCHEDULE AND REFLECTED CEILING PLAN FOR COMPLETE DESCRIPTION OF EACH FIXTURE TYPE. LIGHT FIXTURES ARE IDENTIFIED BY LETTERS AND SYMBOLS.

L2. SWITCH LOCATIONS: TYPICAL SWITCHING SHALL BE AS SHOWN.

L3. EXIT SIGNS: FURNISH EXIT SIGNS WITH INTEGRAL 90 MINUTE NICKEL-CADMIUM BATTERY BASED EMERGENCY POWER SOURCE.

L4. EMERGENCY LIGHTING: SUPPLY EMERGENCY FIXTURES WITH INTEGRAL 90 MINUTE BATTERY

L5. FIXTURE LOCATIONS: REFERENCE REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHT FIXTURES. COORDINATE INSTALLATION IN FIELD WITH TENANT AND ENGINEER. COORDINATE AIMING OF ADJUSTABLE FIXTURES IN FIELD WITH TENANT

L6. INSTALLATION: WIRE FROM JUNCTION BOXES TO FIXTURES OR SWITCHES AS INDICATED. ADDITIONAL JUNCTION BOXES MAY BE REQUIRED BEYOND THOSE SHOWN.

L7. SUPPORT ALL FIXTURES ACROSS CEILING TEES OR FROM STRUCTURE ABOVE. IN NO CASE SHALL CEILING TILES OR PLASTER CEILING SUPPORT ANY FIXTURE.

GENERAL POWER NOTES: (AS APPLICABLE)

P1. GENERAL: VERIFY EXACT LOCATION OF OUTLETS AND DEVICES WITH TENANT PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVER PLATES, AND FLANGES AS REQUIRED.

P2. COORDINATION: MOUNT ALL OUTLETS AT 18" A.F.F. UNLESS NOTED OTHERWISE. REFERENCE ARCHITECT'S DRAWINGS, PLANS & ELEVATIONS FOR ALL HEIGHTS, DIMENSIONS, AND CONFIGURATIONS OF DEVICES NOT INDICATED ON THESE DRAWINGS. REFERENCE SAME DRAWINGS FOR EQUIPMENT NOT IDENTIFIED.

P3. CONVENIENCE OUTLETS: ALL CONVENIENCE OUTLETS SHOWN SHALL BE NEMA TYPE 5-20R, SPECIFICATION GRADE (HUBBELL #5352) DUPLEX RECEPTACLES WITH COVER PLATES TO MATCH EXISTING. VERIFY COLOR WITH ARCHITECT.

ACCEPTABLE MANUFACTURERS:	
HUBBELL	
LEVITON	
PASS & SEYMOUR	

FLOOR SERVICE BOXES: PROVIDE STEEL CITY CONCEALED SERVICE FLOOR BOXES CONFIGURED AS INDICATED ON PLAN. PROVIDE POWER, COMMUNICATIONS, DATA & SECURITY WHERE SHOWN. PROVIDE #8AB CAST PRESET FOR WORK IN CONCRETE.

P4. IG & GFCI RECEPTACLES: ALL ISOLATED GROUND DEVICES (IG) AND GROUND FAULT INTERRUPT (GFCI) DEVICES SHALL BE RATED 20 AMPERES AND SHALL HAVE AN DEDICATED INSULATED GREEN GROUND WIRE. THE GROUND WIRE SHALL BE RUN CONTINUOUS AND UNSPLICED BETWEEN DEVICE AND PANEL GROUND BUS.

ISOLATED GROUND RECEPTACLES SHALL BE UL LISTED 20 AMPERE (HUBBELL #IG-5352).

GROUND FAULT RECEPTACLES SHALL BE UL LISTED, RATED 20 AMPERES (HUBBELL #GF-5362).

P5. TIME CLOCKS: PROVIDE INTERMATIC 24-HOUR, 7-DAY TIME CLOCK TO CONTROL SIGNS, LIGHTING, AND OTHER CYCLIC LOADS IDENTIFIED BY TENANT'S REPRESENTATIVE. PROVIDE CONTACTORS AS REQUIRED. VERIFY EXACT LOCATION AND WIRING REQUIREMENTS. TIMECLOCK TO REMAIN "ON" BETWEEN THE HOURS OF DUSK TO 12:00 AM MINIMUM.

P6. INSTALLATION: DROP FROM JUNCTION BOXES TO DEVICES AS INDICATED. ADDITIONAL JUNCTION BOXES MAY BE REQUIRED BEYOND THOSE SHOWN

P7. EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.

POWER RISER GENERAL NOTES:

P1. TENANT'S ELECTRICAL CONTRACTOR SHALL COLOR CODE FEEDER CONDUCTORS AT THE TENANT METER CENTER TO DESIGNATE PHASE NEUTRAL AND GROUND.

P2. TENANT'S ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT K.A.I.C. RATINGS OF THE LANDLORD'S DISTRIBUTION EQUIPMENT. PROVIDE SERIES RATED EQUIPMENT.

P3. ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT TO 10% (+/-) BETWEEN PHASES: A/B, B/C, A/C REGARDLESS OF CIRCUITING INDICATED.

P4. PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER N.E.C. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN THE ELECTRICAL ROOM PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.

P5. CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS.

P6. PANELBOARD(S) TO BE EQUIPPED WITH BOLT-ON BREAKERS.

SPECIAL SYSTEMS NOTES: (AS APPLICABLE)

S1. TELEPHONE SYSTEM: PROVIDE BACKBOARDS, CONDUITS, AND PULL STRINGS. COORDINATE WORK WITH TELEPHONE COMPANY AND TELEPHONE CONTRACTOR. COORDINATE CONDUIT ROUTING WITH FIELD CONDITIONS. PROVIDE CONDUIT FOR TRUNKS. PROVIDE CONDUIT FOR RUNS EXPOSED TO WEATHER OR DAMAGE. VERIFY NUMBER OF INCOMING LINES WITH TENANT.

S2. TELEPHONE/DATA RECEPTACLES: FURNISH AND INSTALL PULL STRINGS FROM OUTLETS TO 6' ABOVE CEILING. VERIFY EXACT REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER AND INSTALLER. FURNISH AND INSTALL MATERIALS NOT PROVIDED BY TELEPHONE CONTRACTOR.

S3. FIRE ALARM: VERIFY FIRE ALARM REQUIREMENTS IN FIELD WITH LOCAL AUTHORITY HAVING JURISDICTION. FURNISH AND INSTALL NEW INITIATION AND ANNUNCIATION DEVICES. PROVIDE WIRE AND CONDUIT FOR TYING NEW FIRE ALARM INITIATING AND SIGNALING DEVICES TO NEAREST AVAILABLE FIRE ALARM INITIATING ZONE. MEET ALL ADA REQUIREMENTS.

URBAN BRICKS PIZZA CO. -  
VERO BEACH

2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

dpce

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project #:

18.138

date:

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drawn by:

EHW

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DP

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ELECTRICAL SPECIFICATIONS

drawing number:

E4

Revisions		
Number	Description	Date
1	OWNER REVISION	08.16.18
3	PERMIT COMMENTS	10.02.18
4	PERMIT COMMENTS	10.17.18

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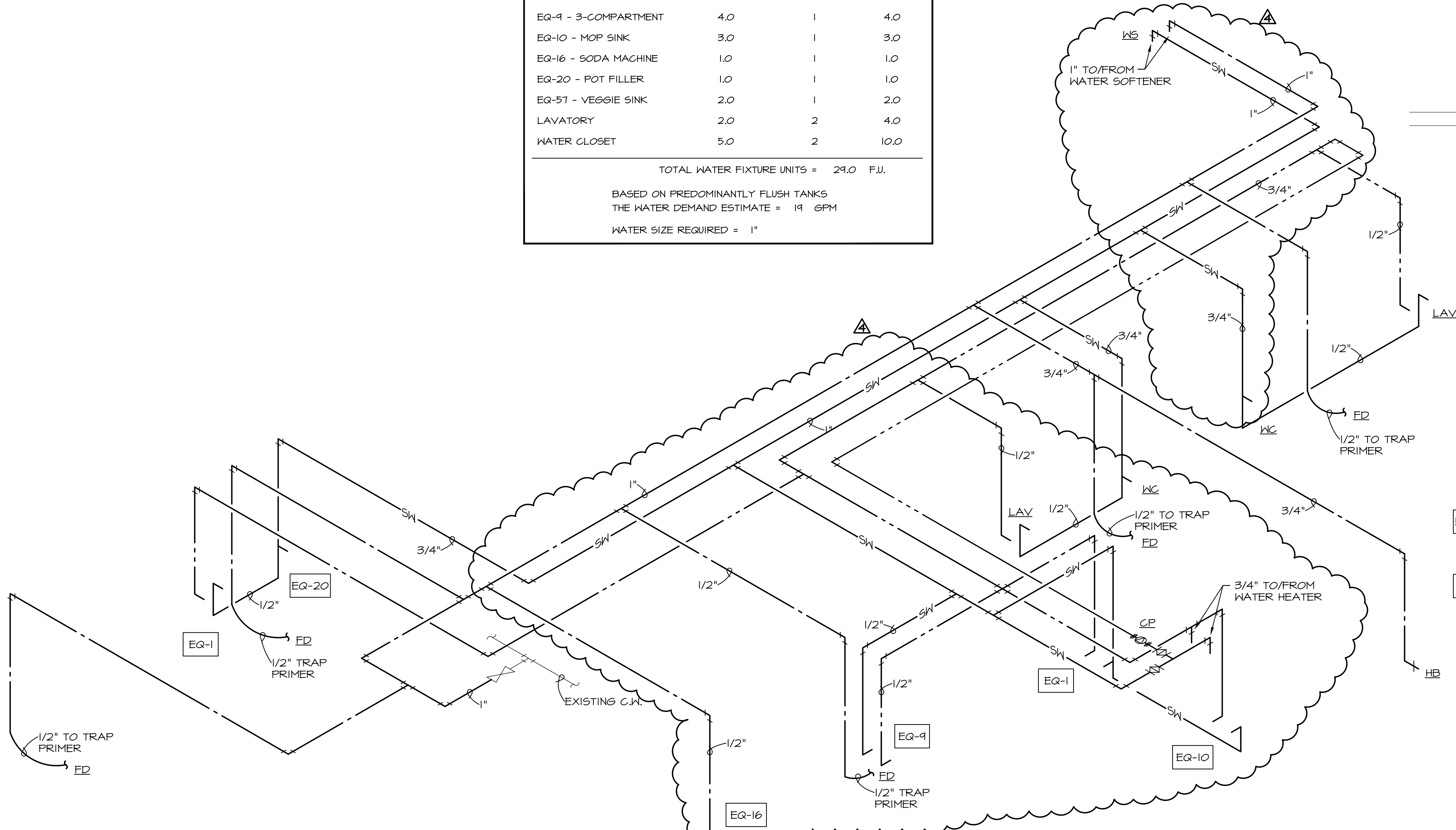
URBAN BRICKS PIZZA CO. -  
VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: EHW  
checked by: DP  
drawing title:

GAS, HOT & COLD  
WATER

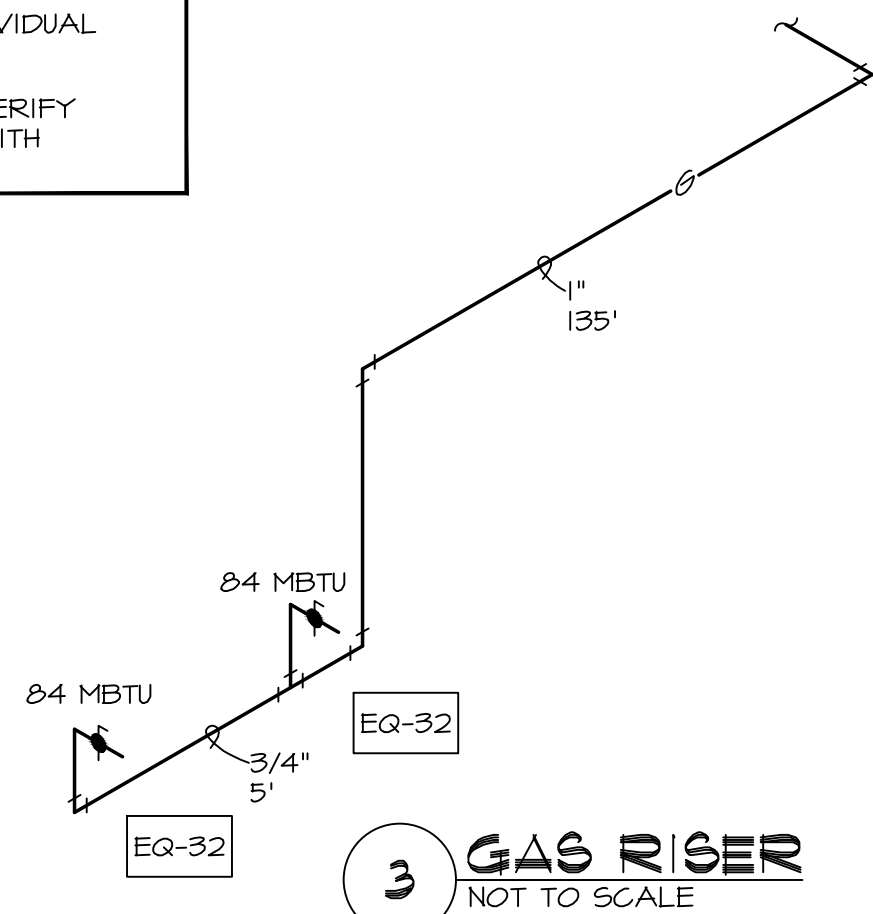
drawing number:

WATER METER FIXTURE CALCULATIONS			
FIXTURE	F.U. FIXTURE	# OF FIXTURES	TOTAL F.U.
EQ-1 - HAND SINK	2.0	2	4.0
EQ-9 - 3-COMPARTMENT	4.0	1	4.0
EQ-10 - MOP SINK	3.0	1	3.0
EQ-16 - SODA MACHINE	1.0	1	1.0
EQ-20 - POT FILLER	1.0	1	1.0
EQ-51 - VEGGIE SINK	2.0	1	2.0
LAVATORY	2.0	2	4.0
WATER CLOSET	5.0	2	10.0
TOTAL WATER FIXTURE UNITS = 29.0 F.U.			
BASED ON PREDOMINANTLY FLUSH TANKS THE WATER DEMAND ESTIMATE = 19 GPM			
WATER SIZE REQUIRED = 1"			



2 HOT & COLD WATER RISER  
NOT TO SCALE

GAS EQUIPMENT SCHEDULE		
PER 2015 INTERNATIONAL FUEL GAS CODE, TABLE 402.4(2)		
EQUIPMENT	GAS	SIZE
EQ-32 GAS PIZZA OVEN	168,000 BTUH	(2) 3/4"
TOTAL SPACE DEMAND = 168,000 BTUH 1" @ 150'		
ALL GAS EQUIPMENT SHALL BE PROVIDED WITH AN INDIVIDUAL SHUT-OFF VALVE AND A FLEXIBLE QUICK DISCONNECT. GAS PRESSURE SHALL BE 0.5". CONTRACTOR SHALL VERIFY METERING AND PRESSURE REGULATOR REQUIREMENTS WITH LOCAL GAS COMPANY.		



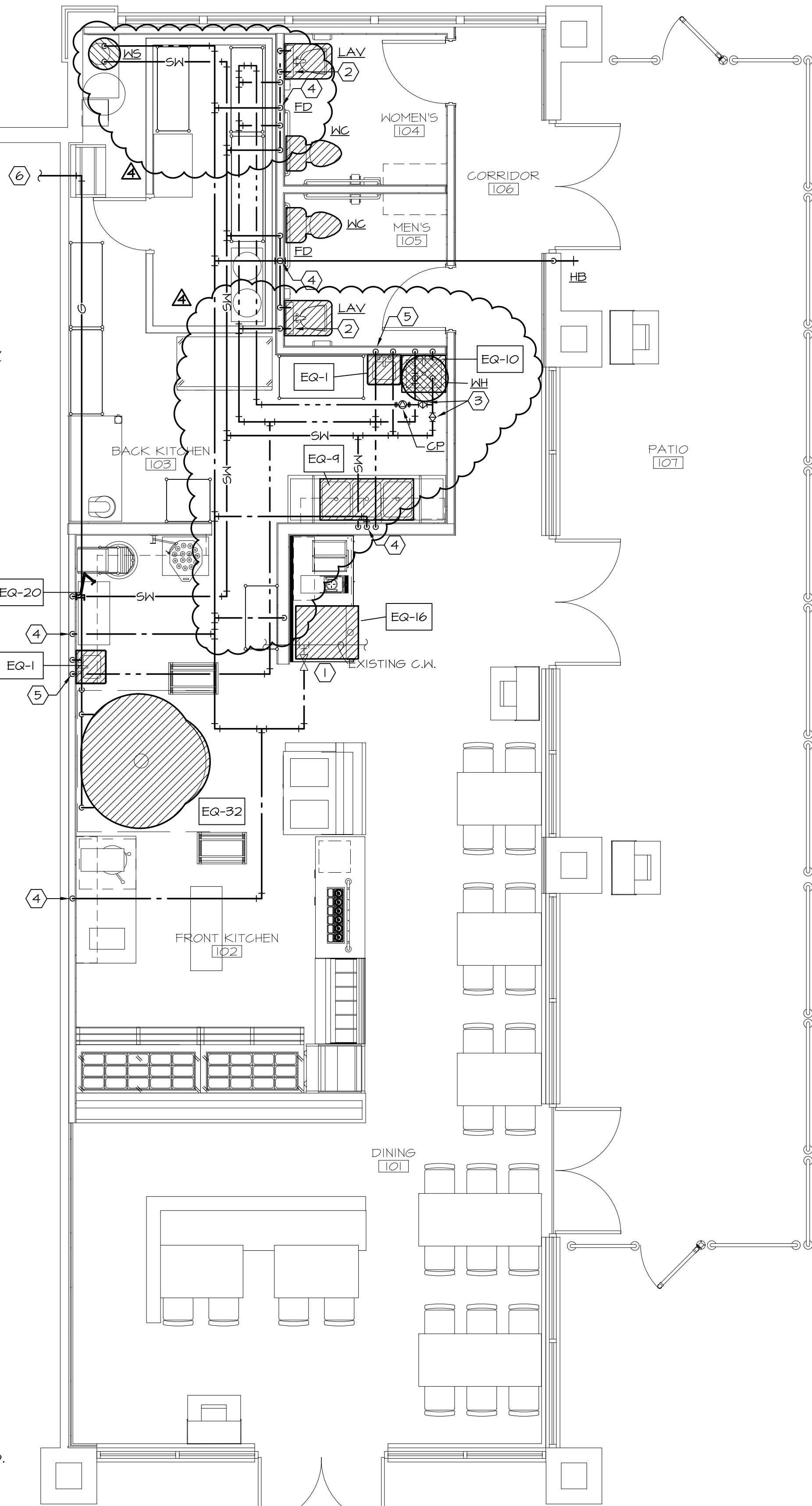
3 GAS RISER  
NOT TO SCALE

GENERAL PLUMBING NOTES:

- ALL UTILITY SERVICE RUNS ARE TO BE CONCEALED INSIDE THE BUILDING AND NOT EXPOSED TO THE EXTERIOR OF THE BUILDING'S ENVELOPE. OSA TO NOTE IN PERMIT RE-SUBMITTAL AND/OR ISSUED FOR CONSTRUCTION SET.
- ALL SLAB CUTS SHALL BE REPLACED WITH IDENTICAL SPECIFICATIONS THAT WERE USED ON THE SHELL BUILDING, WHICH ARE 5" THICK 3,000 PSI CONCRETE WITH #3 REBARS, 18" OCEAN AND A 10 mil VAPOR BARRIER, ALL OF WHICH ARE OVER COMPACTED SELECT FILL.
- DRAWING IS DIAGRAMIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- EFFICIENT HEATED WATER SUPPLY PIPING DETERMINE BY USING THE MAXIMUM ALLOWABLE PIPE LENGTH.

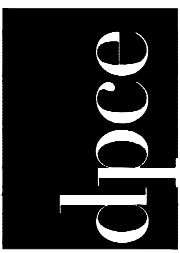
PLUMBING KEYED NOTES:

- CONNECT NEW 1" COLD WATER LINE TO EXISTING TAP PROVIDED FOR SPACE. PROVIDE "RPZ" BACKFLOW PREVENTOR, EQUAL TO WATTS SERIES-004, AS REQUIRED, WITH AIRGAP, EQUAL TO AMES 4000B. FIELD COORDINATE LOCATION AND REQUIREMENTS.
- PROVIDE & INSTALL 1/2" ANTI-SCALDING THERMOSTATIC MIXING VALVE UNDER LAVATORY ON HOT WATER LINE FEEDING PUBLIC RESTROOM LAVATORY. SET TO 110° MAX. MUST CONFORM TO ASSE 1070.
- HOT WATER RETURN BALANCING VALVE ABOVE CEILING. PROVIDE APPROVED ACCESS PANEL IF CEILING IS HARD LID.
- 1/2" FOR TRAP PRIMER(S).
- PROVIDE & INSTALL 1/2" ANTI-SCALDING THERMOSTATIC MIXING VALVE UNDER HAND/BAR SINK ON HOT WATER LINE FEEDING HAND/BAR SINK. SET TO 110° MAX. MUST CONFORM TO ASSE 1070.
- CONNECT NEW 3/4" GAS LINE TO NEW METER FOR SPACE. FIELD COORDINATE LOCATION.



1 GAS, HOT & COLD WATER PLAN  
SCALE: 1/4"=1'-0"





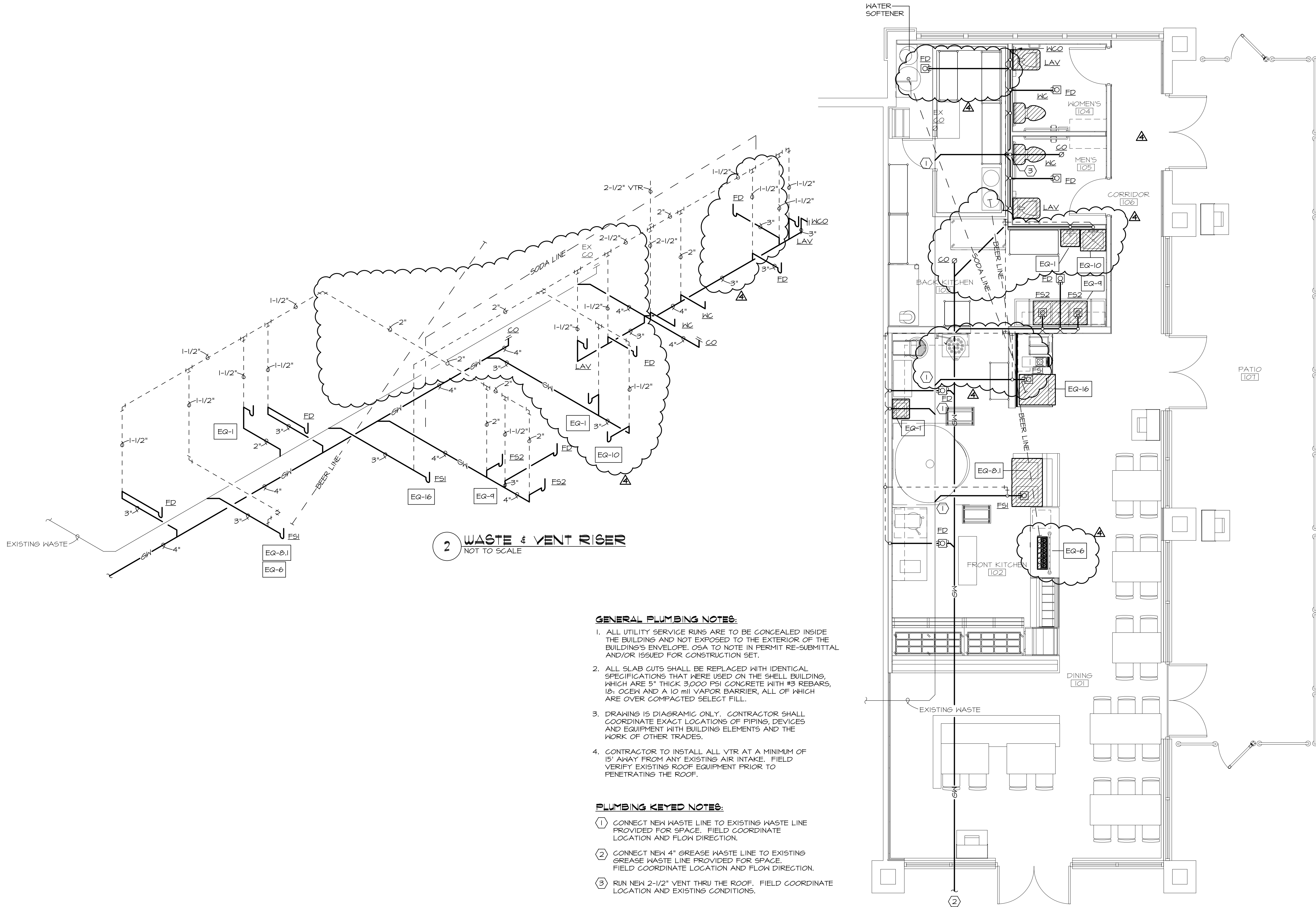
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VERO BEACH  
2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

project #: 18.138  
date: 07.20.18  
drawn by: EHW  
checked by: DP  
drawing title: WASTE & VENT

drawing number:



GENERAL PLUMBING NOTES:

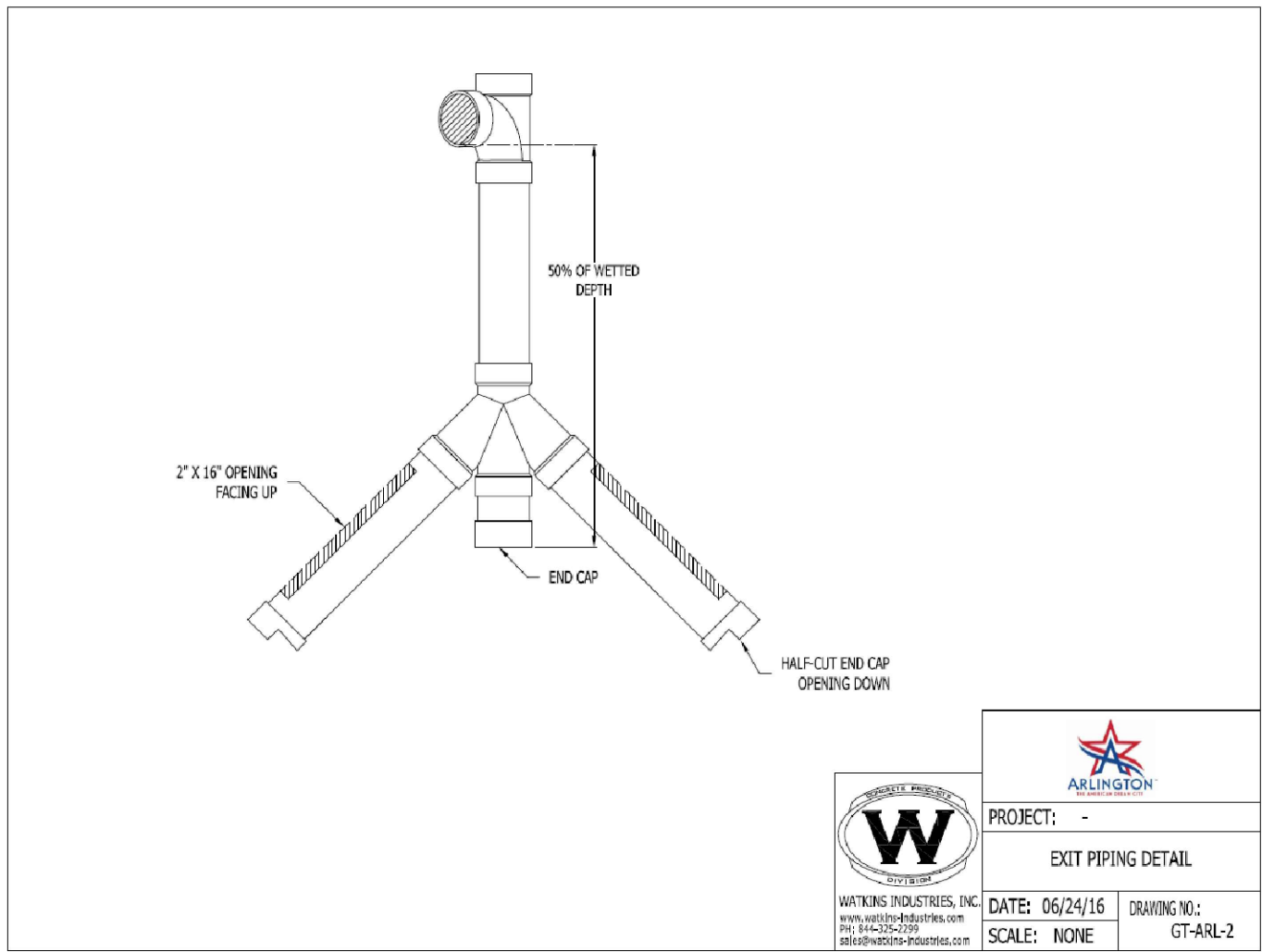
1. ALL UTILITY SERVICE RUNS ARE TO BE CONCEALED INSIDE THE BUILDING AND NOT EXPOSED TO THE EXTERIOR OF THE BUILDING'S ENVELOPE. OSA TO NOTE IN PERMIT RE-SUBMITTAL AND/OR ISSUED FOR CONSTRUCTION SET.
2. ALL SLAB CUTS SHALL BE REPLACED WITH IDENTICAL SPECIFICATIONS THAT WERE USED ON THE SHELL BUILDING, WHICH ARE 5" THICK 3,000 PSI CONCRETE WITH #3 REBARS, 18" O.C. AND A 10 mil VAPOR BARRIER, ALL OF WHICH ARE OVER COMPACTED SELECT FILL.
3. DRAWING IS DIAGRAMIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
4. CONTRACTOR TO INSTALL ALL VTR AT A MINIMUM OF 15' AWAY FROM ANY EXISTING AIR INTAKE. FIELD VERIFY EXISTING ROOF EQUIPMENT PRIOR TO PENETRATING THE ROOF.

PLUMBING KEYED NOTES:

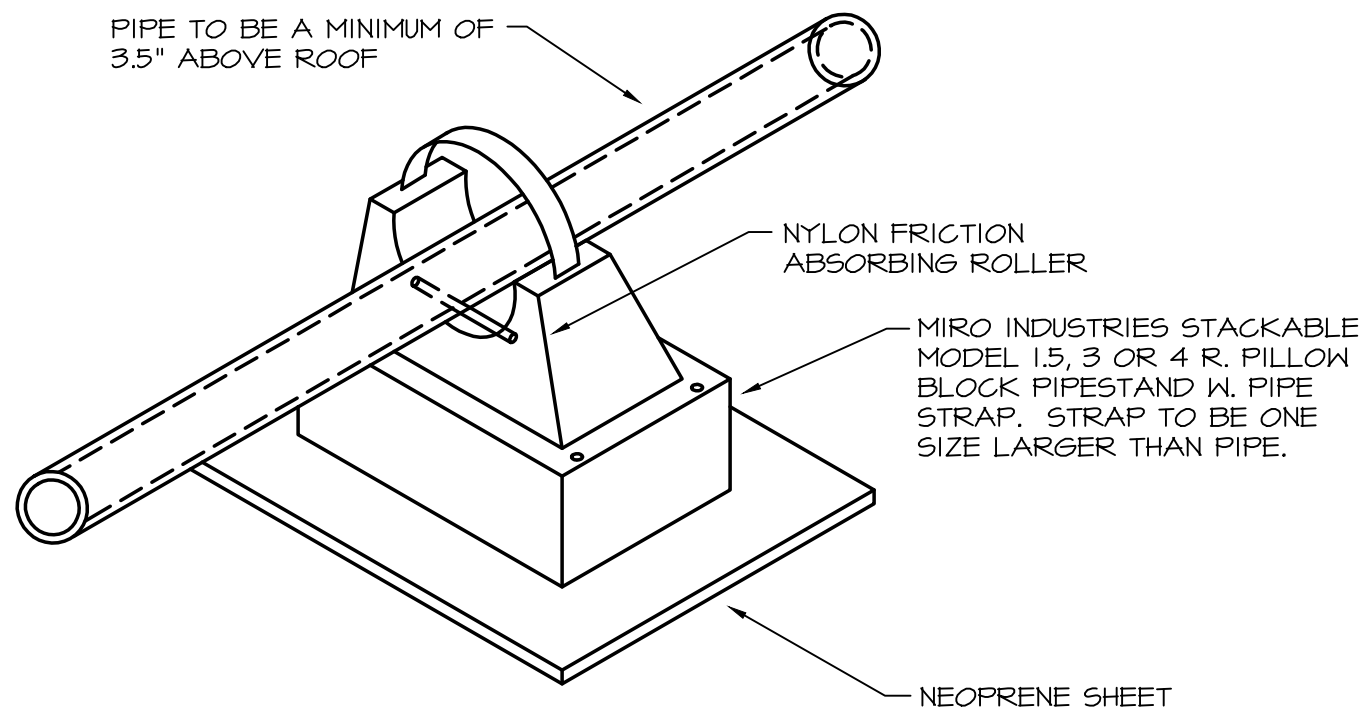
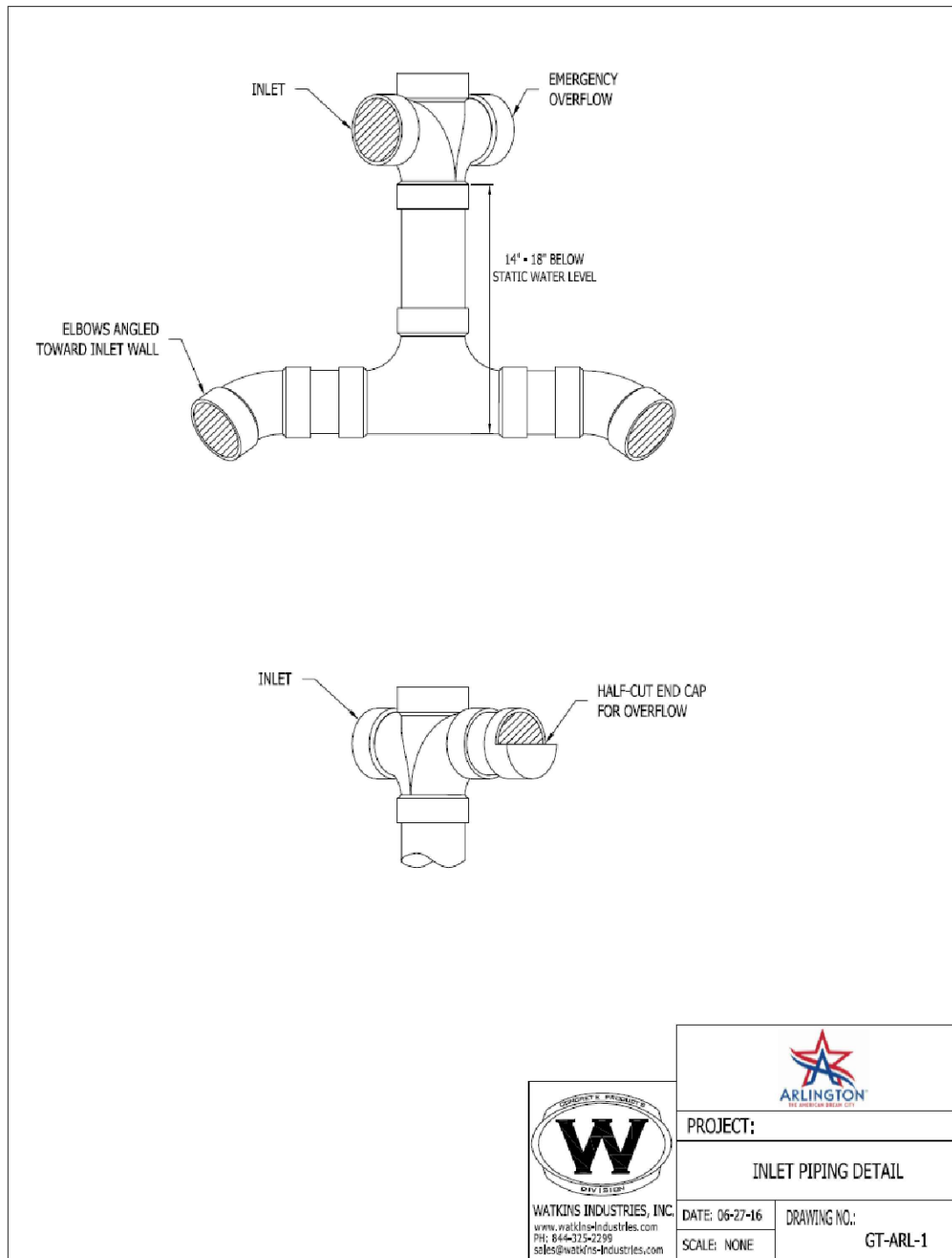
- ① CONNECT NEW WASTE LINE TO EXISTING WASTE LINE PROVIDED FOR SPACE. FIELD COORDINATE LOCATION AND FLOW DIRECTION.
- ② CONNECT NEW 4" GREASE WASTE LINE TO EXISTING GREASE WASTE LINE PROVIDED FOR SPACE. FIELD COORDINATE LOCATION AND FLOW DIRECTION.
- ③ RUN NEW 2-1/2" VENT THRU THE ROOF. FIELD COORDINATE LOCATION AND EXISTING CONDITIONS.

1 WASTE & VENT PLAN  
SCALE: 1/4"=1'-0"

2 WASTE & VENT RISER  
NOT TO SCALE



ALL EQUIPMENT TO BE COMMERCIAL GRADE AND TO BE NSF, UL EPH, ETL OR CSA SANITATION.

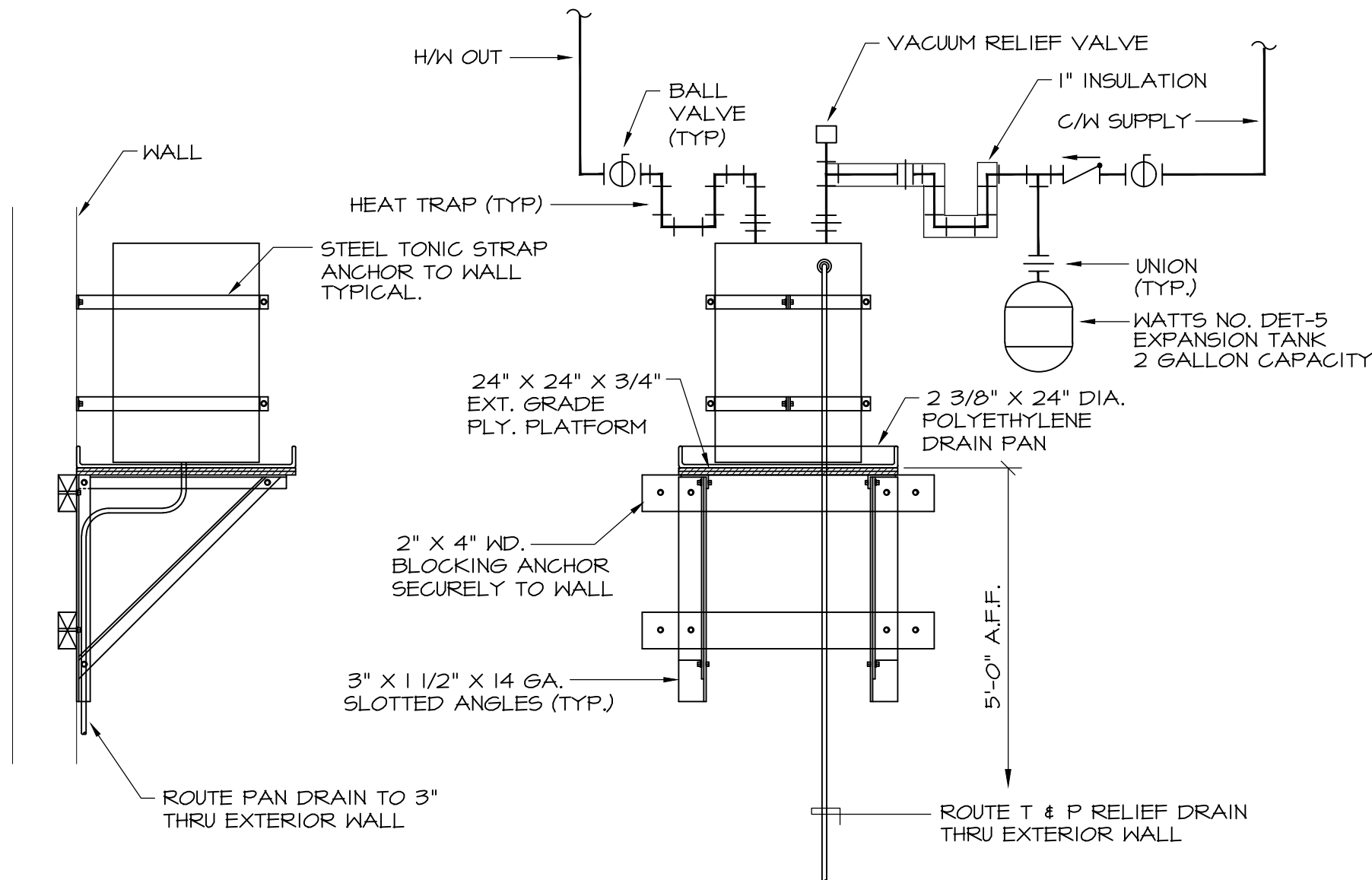


2 ROOF PIPE SUPPORT DETAIL  
NOT TO SCALE

EQUIPMENT SCHEDULE											
RESTAURANT EQUIPMENT											
MARK	DESCRIPTION	MANUFACTURER	MODEL	COLD	SOFT	HOT	VENT	WASTE	MBTU	SIZE	NOTES
EQ-1	HAND SINK	ADVANCE TABCO	#T-PS-EG-5P-C	---	1/2"	1/2"	1-1/2"	2"	---	---	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-6	BEER DISPENSER W/ TAP HANDLE DISPLAY	BOTTOMS UP	3 KEG W/ #BU6-1C- & TAP DISPLAY_BOLT ON	---	---	---	---	1" ID	---	---	BY GRINON INDUSTRIES, CONTACT WARREN CARROLL (206) 753-7118
EQ-8.1	COLD FOOD WELL UNIT, DROP IN REFRIGERATED	APW WYOTT	#CW-1	---	---	---	---	1" D	---	---	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-9	THREE (3) COMPARTMENT SINK	ADVANCE TABCO	#FE-3-1812-18RL-C	---	1/2"	1/2"	1-1/2"	(3) 1-1/2" ID	---	---	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-10	MOP SINK	JOHN BOOS	#PBMS-2016-6-X	---	1/2"	1/2"	1-1/2"	3"	---	---	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-16	SODA MACHINE W/ ICE MAKER	COCA COLA	#FREESTYLE 7000	1/2"	---	---	---	1-1/2" ID	---	---	LEASED EQUIPMENT; CONTACT JACK TINGLEY (512) 804-5342 & LOCAL BOTTLER REP
EQ-20	POT FILLER	FISHER	#4731	---	1/2"	---	---	---	---	---	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED
EQ-32	PIZZA OVEN	MARRA FORNI	#RT130 (GAS FIRED)	---	---	---	---	---	(2) 84	(2) 3/4"	PROVIDED BY FRANCHISEE/DOUGH NATION HQ, GC INSTALLED
EQ-57	VEGGIE PREP SINK	ADVANCE TABCO	#FG-1-1818-18L-X	---	1/2"	1/2"	---	1" ID	---	---	ACEMART RESTAURANT SUPPLY SUPPLIED, CONTRACTOR INSTALLED

PLUMBING FIXTURE CONNECTION SCHEDULE										
MARK	FIXTURE	SW	CW	HW	W	V	REMARKS			
CO	CLEANOUT	-	-	-	4"	-	a. WARE # 6000, CAST IRON W/ THREADED ADJUSTABLE HOUSING			
WCO	WALL CLEANOUT	-	-	-	4"	-	INSTALL WALL CLEANOUT W/ ACCESS COVER			
FD	FLOOR DRAIN	-	1/2"	-	3"	SEE PLAN	a. 6" DIAMETER PVC FLOOR DRAIN WITH TYPE "B" STRAINER. PROVIDE 1/2" TRAP PRIMER			
FS1	FLOOR SINK	-	-	-	3"	SEE PLAN	a. 12"x12"x8" PVC FLOOR SINK, SEGMENT BUCKET STRAINER AND SECURED HALF GRATE. b. PROVIDE ROUGH-IN AS REQUIRED FOR ALL FIXTURES AND EQUIPMENT PROVIDED BY EQUIPMENT SUPPLIERS AND/OR OWNER. PROVIDE ALL MATERIALS AND LABOR TO INSTALL AND MAKE FINAL CONNECTIONS TO ALL EQUIPMENT. ALL CONNECTIONS FOR EQUIPMENT TO BE IN ACCORDING WITH APPLICATION.			
FS2	FLOOR SINK	-	-	-	4"	2"	a. ZURN #ZN-1901-2-25-K 12x12x8 CAST IRON FLOOR SINK W/ ENAMELED INTERIOR, SEGMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE. b. PROVIDE ROUGH-IN AS REQUIRED FOR ALL FIXTURES AND EQUIPMENT PROVIDED BY EQUIPMENT SUPPLIERS AND/OR OWNER. PROVIDE ALL MATERIALS AND LABOR TO INSTALL AND MAKE FINAL CONNECTIONS TO ALL EQUIPMENT. ALL CONNECTIONS FOR EQUIPMENT TO BE IN ACCORDING WITH APPLICATION.			
WC	WATER CLOSET (HANDICAP)	1/2"	-	-	4"	2"	a. KOHLER #K-3609 WATER CLOSET; WHITE CHINA; FLOOR MOUNTED; ELONGATED EQUIPPED WITH SLOAN FLUSHMATE 1.28 GAL. PER FLUSH, TANK AND SEAT.			
LAV	LAVATORY (HANDICAP)	1/2"	-	1/2"	2"	1-1/2"	a. AMERICAN STANDARD "WHEELCHAIR LAV" #9141.011; WALL MOUNTED; 14"x 14"; 4-3/4" LAVATORY SINK; 4" CENTERSET HOLE FAUCET. PROVIDE ARM SUPPORTS. b. AMERICAN STANDARD #1038.201.002.F05, 1.5 GPM; METAL LEVER HADLES c. CHROME PLATED GRID STRAINER. d. 17 GA., 1 1/2" P-TRAP. e. 1/2"x 3/8" STOPS & SUPPLIES; CHROME PLATED. f. WARE SERIES 520 CARRIER. g. TRUEBRO #102 P-TRAP AND SUPPLY PIPING INSULATION KIT.			
WS	WATER SOFTENER	1-1/2"	1-1/2"	-	-	-	a. WATTS #PWSPE60K, 15.5 GPM AT 15 PSI DROP. b. PROVIDE WITH REVERSE OSMOSIS MACHINE ABOVE.			
CP	CIRCULATION PUMP	-	-	-	-	-	a. GRUNDFOS #UP 43-70-F, 1/2 HP, 115 V, 60HZ, 10.33 LBS., INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE AUTOMATIC TIMER.			
HB	HOSE BIBB	3/4"	-	-	-	-	a. ZURN #1300; ENCASED, ANTI-SIPHON W/ NON-FREEZE TYPE INTEGRAL BACKFLOW PREVENTER			

- NOTES
1. ALL FIXTURES SHALL HAVE AN INDIVIDUAL SHUTOFF VALVE.
  2. ALL FIXTURES SHALL BE PROVIDED W/ A SHOKTROL.
  3. INSTALL A METER AND/ OR BACKFLOW PREVENTOR AS LOCAL CODE REQUIRES.



1 WATER HEATER DETAIL  
NO SCALE

WATER HEATER SCHEDULE						
MARK	RECOVERY		STORAGE GALLONS	LINING	MAXIMUM INPUT BTUH	REMARKS
	GPH	RISE°F				
WH.	69	90	50	GLASS	15.0 KW @ 208/3Ø	RHEEM #E550

URBAN BRICKS PIZZA CO. - VERO BEACH

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dpce

Revisions		
Number	Description	Date
1	OWNER REVIEW	08.16.18
3	PERMIT COMMENTS	10.02.18
4	PERMIT COMMENTS	10.17.18

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URBAN BRICKS PIZZA CO. - VERO BEACH

2017 INDIAN RIVER BLVD.  
VERO BEACH, FL

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DETAILS

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