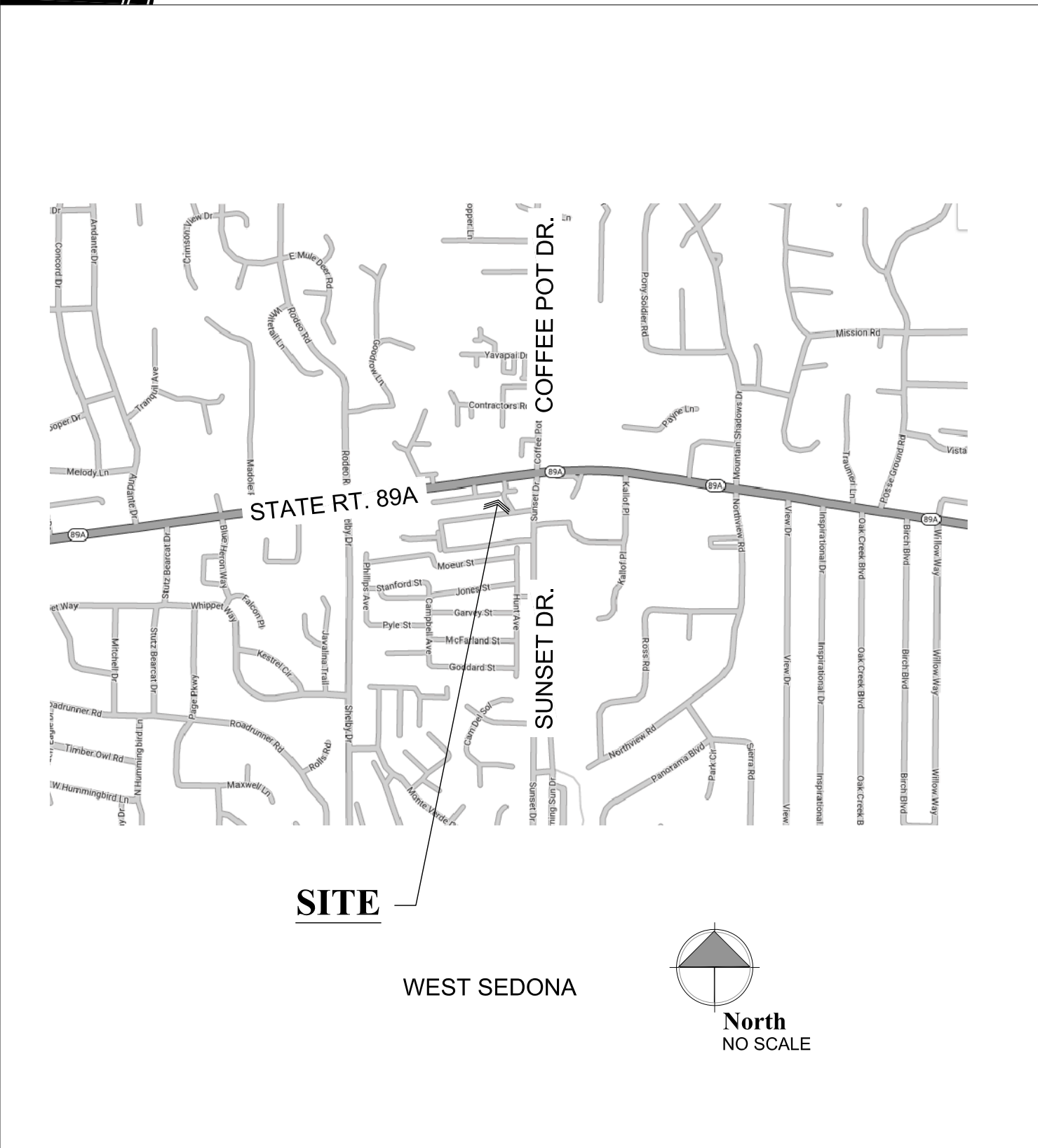


# Crescendo Chocolates TI

SEDONA, ARIZONA

## Vicinity Map



## Project Information

<b>CLIENT:</b>	Crescendo Chocolates Sedona, AZ communaluprisingchocolate@gmail.com	PH: 928-203-6904 Contact: Shari Flam
<b>PREPARED BY:</b>	W. Alan Kenson & Assoc., P.C. P.O. Box 11593 Prescott, AZ 86304	PH: 928-443-5812 Contact: Alan Kenson WAKA@cablone.net
<b>CONTRACTOR:</b>	To be determined	
<b>JOBSITE ADDRESS:</b>	2055 W. State Rt. 89A Suite B Sedona, AZ 86336	
<b>PARCEL NUMBER:</b>	408-24-358	
<b>ZONING:</b>	CO Commercial	
<b>CONST. TYPE:</b>	V-B	
<b>OCCUPANCY:</b>	B & M	
<b>EXISTING BLDG:</b>	Existing (Interior Suite B) 815 S.F.	
<b>BUILDING CODES:</b>	2018 International Building Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2017 National Electric Code	
<b>PARKING REQUIREMENTS:</b>	Parking is existing and adequate	

## Sheet Index

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CS2	Occupancy / Egress and Code Summary
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A2.0	Existing / Demolition and Proposed Reflected Ceiling Plans, Wall Sections and Interior Elevation
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A4.0	Room Finish Plan and Schedules
K1.0	Kitchen Equipment Plan
<b>MECHANICAL / PLUMBING</b>	
M1.0	Mechanical Floor Plan
M2.0	Mechanical Schedules
<b>PLUMBING</b>	
P1.0	Plumbing Floor Plan
P2.0	Plumbing Schedules and Details
<b>ELECTRICAL</b>	
E1.0	Electrical Symbols, Specs, One Line Diagram and Panel Schedule
E1.1	Lighting Floor Plan
E1.2	Power Floor Plan

## Graphic Standards



## Project Description

Crescendo Chocolate intends to do a tenant improvement in an existing 815 S.F. suite. Existing interior walls will be removed and new walls will be constructed. A kitchen area will be created along with a retail area and new ADA compliant restroom. The existing HVAC system will be modified to accommodate the new layout and a new grid ceiling will be added.

Architect:

W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING

REGISTERED ARCHITECT  
WAKA

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ARCHITECTURE & PLANNING

DRAWING: Cover Sheet

PROJECT: Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336

APN: 408-24-358

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE March 9th, 2021
JOB NO. 765
SHEET







CS1

- EXIT SIGNS:** —
- PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC SECTIONS 1013 & 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

Plumbing Calculations				
OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	SERVICE SINK
MERCANTILE	7	.01	.01	1
TOTAL REQUIRED		.01	.01	1
TOTAL PROVIDED		1	1	1

- Accessibility Notes**
- ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
  - THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
  - WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
  - PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
  - WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
  - RAMPS SHALL HAVE A NON-SLIP SURFACE.
  - RAMPS SHALL BE A MINIMUM OF 36" WIDE.
  - EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 36" WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90 DEGREES AND MOUNTED SO THE CLEAR WIDTH OF THE EXIT WAY IS 32" MINIMUM.
  - THRESHOLDS TO BE A MAXIMUM OF 1/4" ABOVE ADJACENT FLOOR FINISH. ONE-HALF INCH THRESHOLD MAY BE USED IF BEVELED PER A.D.A. STANDARDS.
  - MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
  - THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
  - PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)

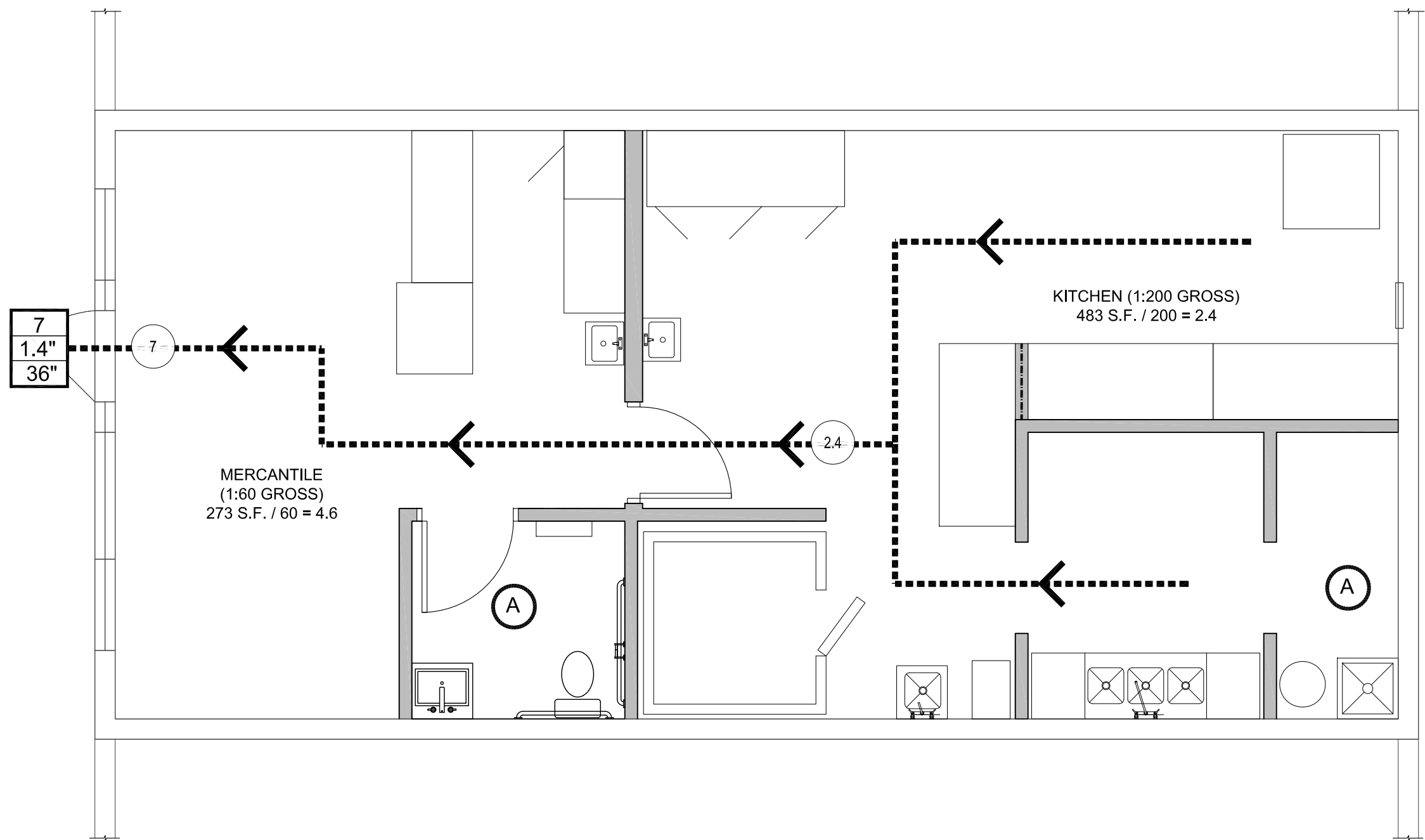
# Egress Legend:

	EXIT ACCESS		
	ACCESSORY USE (NO OCCUPANCY)		
	ROOM OCCUPANCY LOAD		
	SUBTOTAL OCCUPANCY LOAD		
	OCCUPANCY TOTAL REQUIRED EXIT WIDTH (FACTOR = 0.2) PROVIDED EXIT WIDTH		
	WORST CASE TRAVEL DISTANCE TO COMMON PATH OF EGRESS TRAVEL		
FUNCTION OF SPACE		OCCUPANT LOAD FACTOR	
MERCANTILE		60 GROSS	
KITCHEN		200 GROSS	

**Occupant load**

NOTE:  
GROSS SQUARE FOOTAGE LISTED BELOW  
DOES NOT INCLUDE ACCESSORY AREAS.

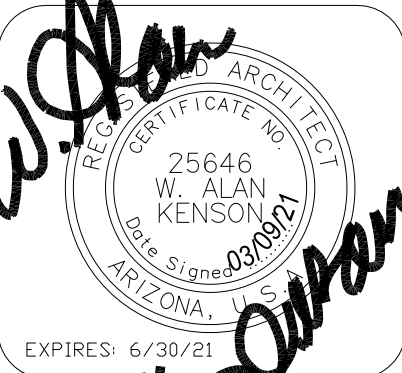
KITCHEN AREA	483 SQ. FT.	2.4 OCCUPANTS
MERCANTILE AREA	273 SQ. FT.	4.6 OCCUPANTS
TOTAL:	756 SQ. FT.	7 OCCUPANTS



**Occupancy / Egress Plan**  
Scale: 1/4"=1'-0"  
Plan North

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**ARCHITECTURE & PLANNING**

**DRAWING:** Occupancy Egress Floor Plan and Dimension Plans

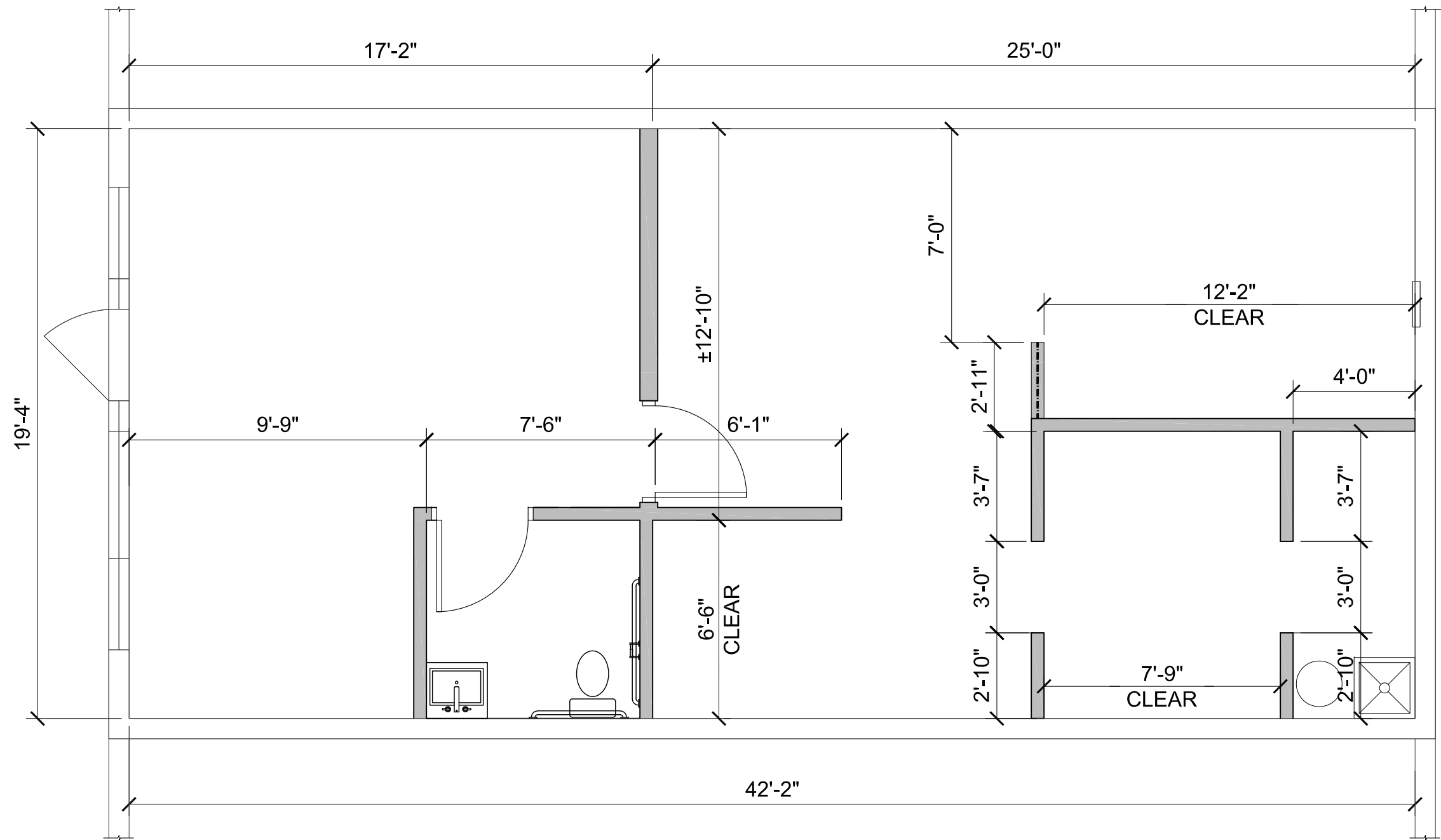
**PROJECT:** Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336

**APN:** 408-24-358

DRAWN BY L.O.
CHECKED BY W.A.K.
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**CS2**





**A2** Dimension Plan

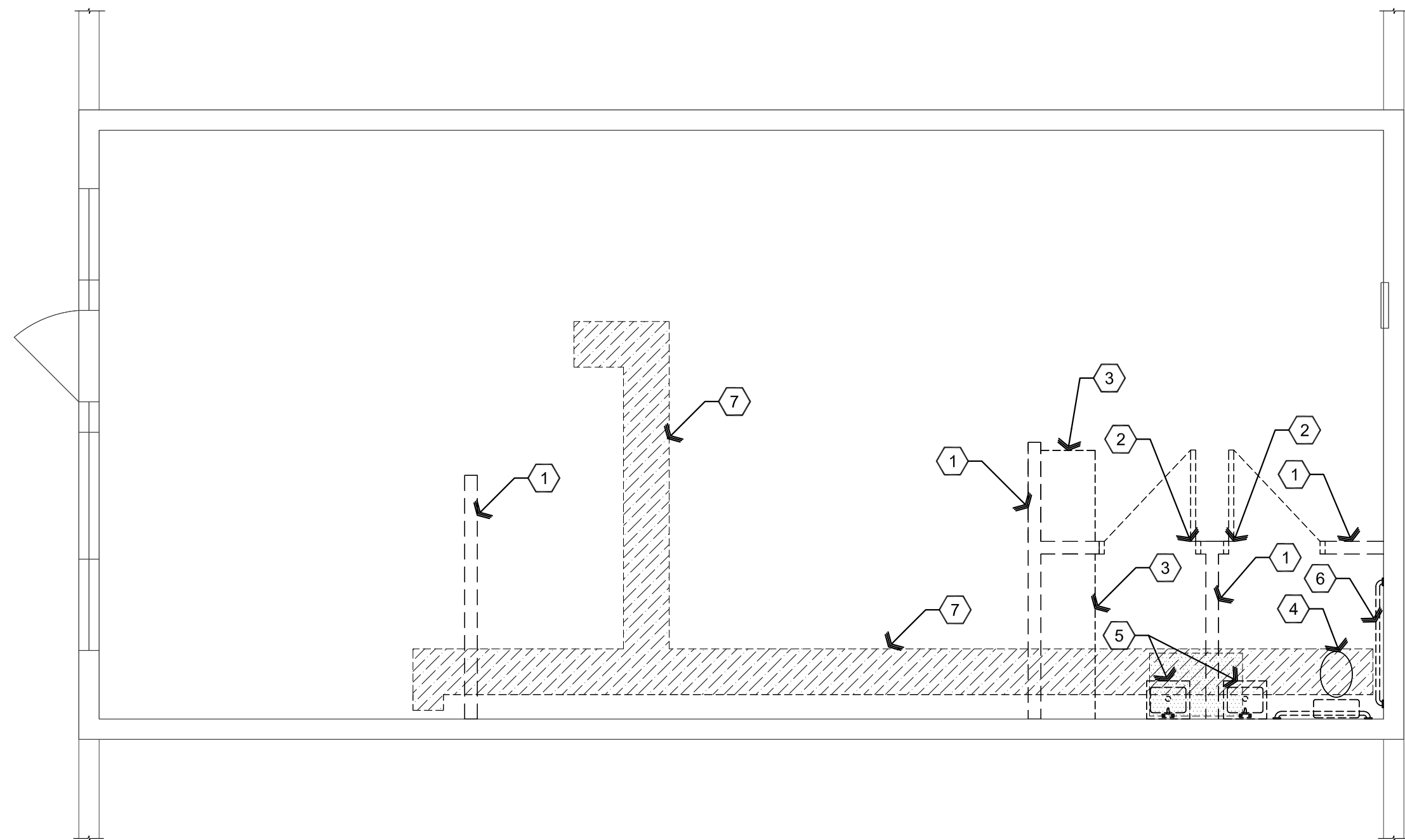
Scale: 1/4"=1'-0"



### Descriptive Keynotes

#### Existing / Demolition Plan

1. REMOVE EXISTING WALL.
2. REMOVE EXISTING DOOR.
3. REMOVE EXISTING MILLWORK.
4. REMOVE EXISTING TOILET, TO BE RELOCATED, VERIFY WITH TENANT.
5. REMOVE EXISTING SINK, RETURN TO OWNER.
6. REMOVE EXISTING GRAB BARS, TO BE RELOCATED.
7. SAWCUT AND REMOVE TILE / CONCRETE AND EXCAVATE FOR PLUMBING, REFER TO PLUMBING PLANS. SAWCUT AT TILE GROUT JOINT WHERE POSSIBLE TO REDUCE DAMAGE TO EXISTING TILE FLOORING.



**A1** Existing / Demolition Plan

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



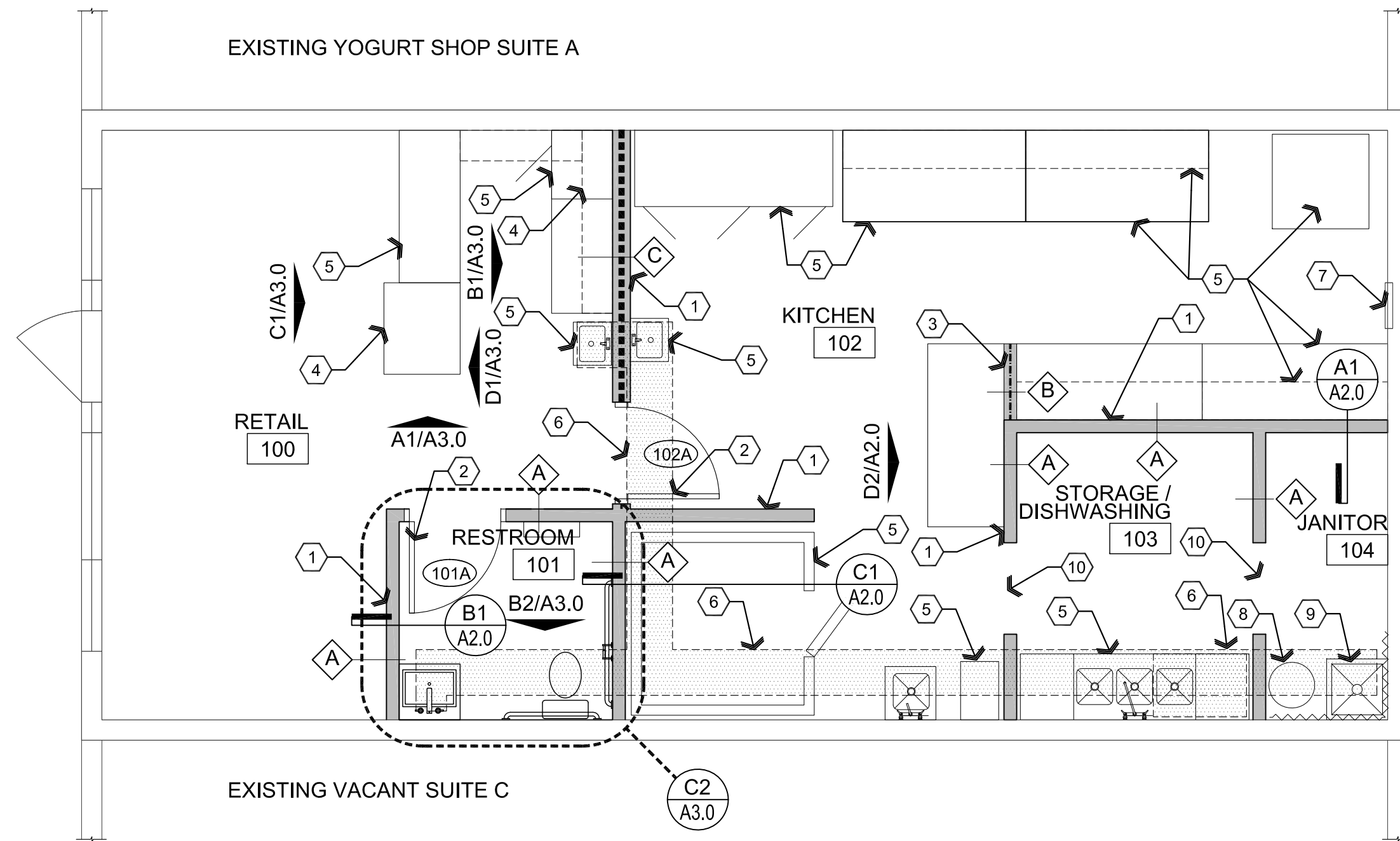
### Wall Types Legend

- A** INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. TO 6" ABOVE GRID CEILING, WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-11 BATT INSULATION.
- B** PONY WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. TO 4'-0" A.F.F. WITH 5/8" GPDW ON EXPOSED SIDES.
- C** INTERIOR 6" WALL: PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. TO 6" ABOVE GRID CEILING, WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-19 BATT INSULATION.
- ~~~~~ FRP WAINSCOT

### Descriptive Keynotes

#### Reference Floor Plan

1. PROVIDE NEW WALL, REFER TO WALL TYPES.
2. PROVIDE NEW DOOR, REFER TO DOOR SCHEDULE.
3. PROVIDE NEW PARTIAL HEIGHT WALL, REFER TO WALL TYPES PLAN.
4. PROVIDE MILLWORK, REFER TO INTERIOR ELEVATIONS.
5. REFER TO KITCHEN EQUIPMENT PLAN FOR INFORMATION.
6. RE-COMPACT SOILS, PROVIDE CONCRETE TO MATCH EXISTING AND REPAIR FLOOR TILE AS DIRECTED BY TENANT.
7. EXISTING ELECTRICAL PANEL, REFER TO ELECTRICAL PLANS.
8. WATER HEATER, REFER TO PLUMBING PLANS.
9. MOP SINK, REFER TO PLUMBING PLANS.
10. 3'-0"x7'-0" OPENING IN WALL.
11. BELOW GRADE GREASE TRAP, REFER TO PLUMBING PLANS.



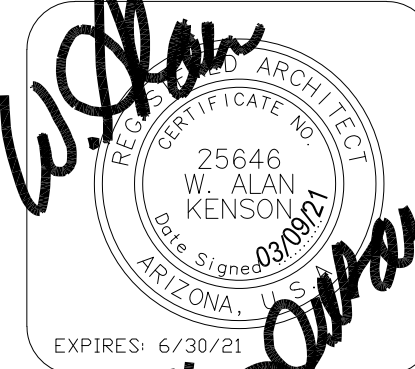
**B1** Reference / Wall Types Floor Plan

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



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**ARCHITECTURE & PLANNING**

**DRAWING:** Existing / Demolition, Reference / Wall Types and Dimension Plans

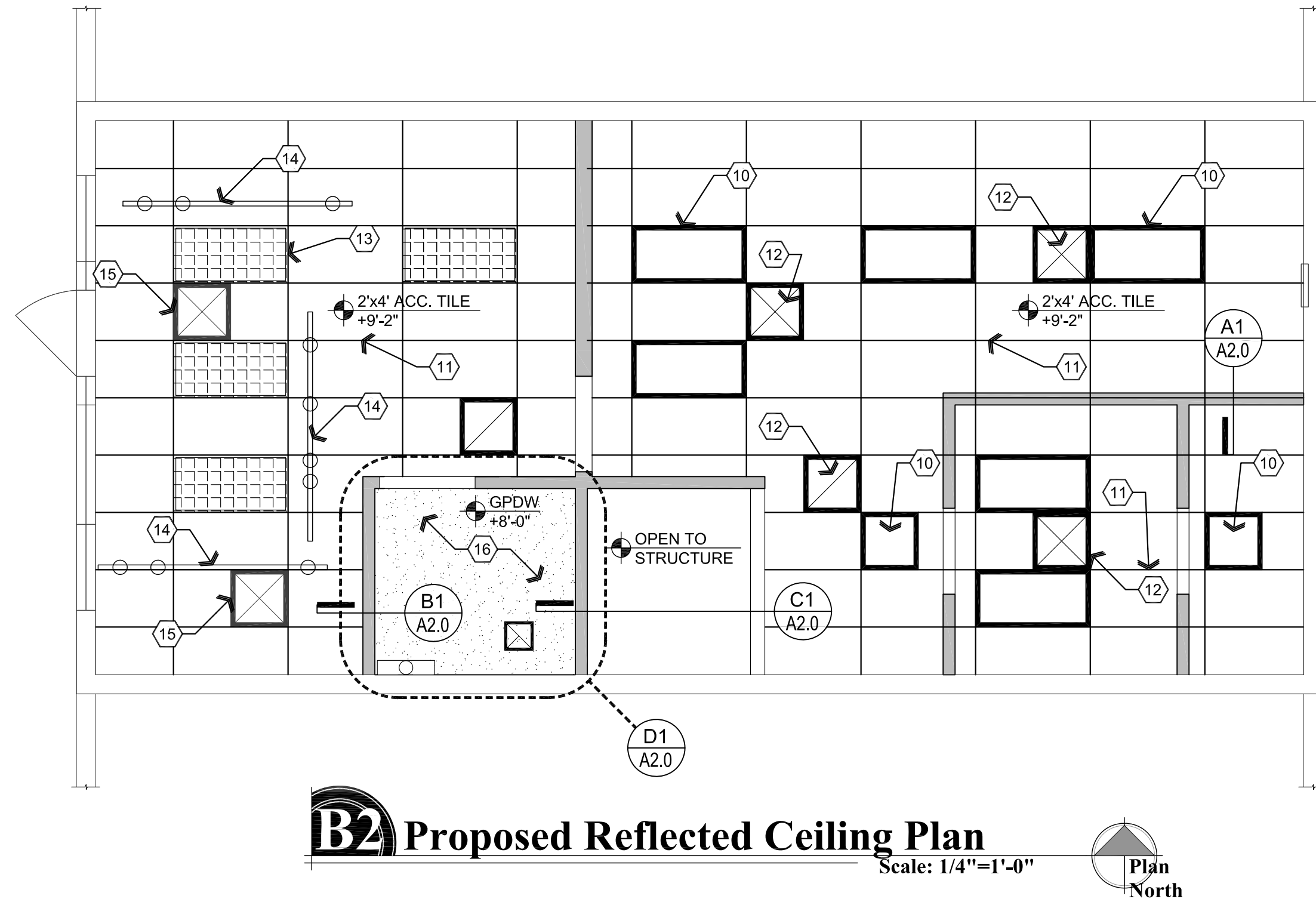
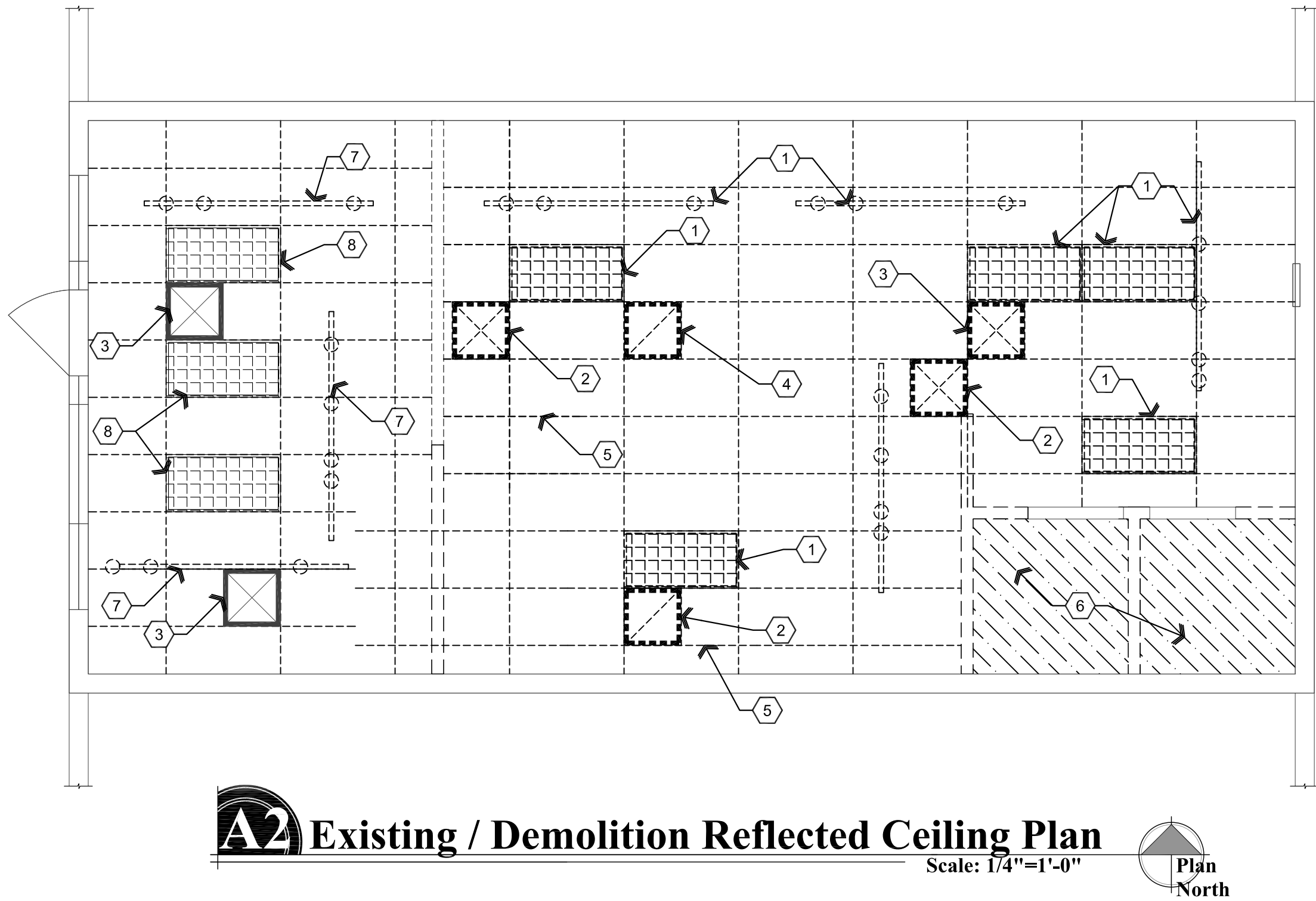
**PROJECT:** Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336

**APN:** 408-24-358

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DATE March 9th, 2021
JOB NO. 765
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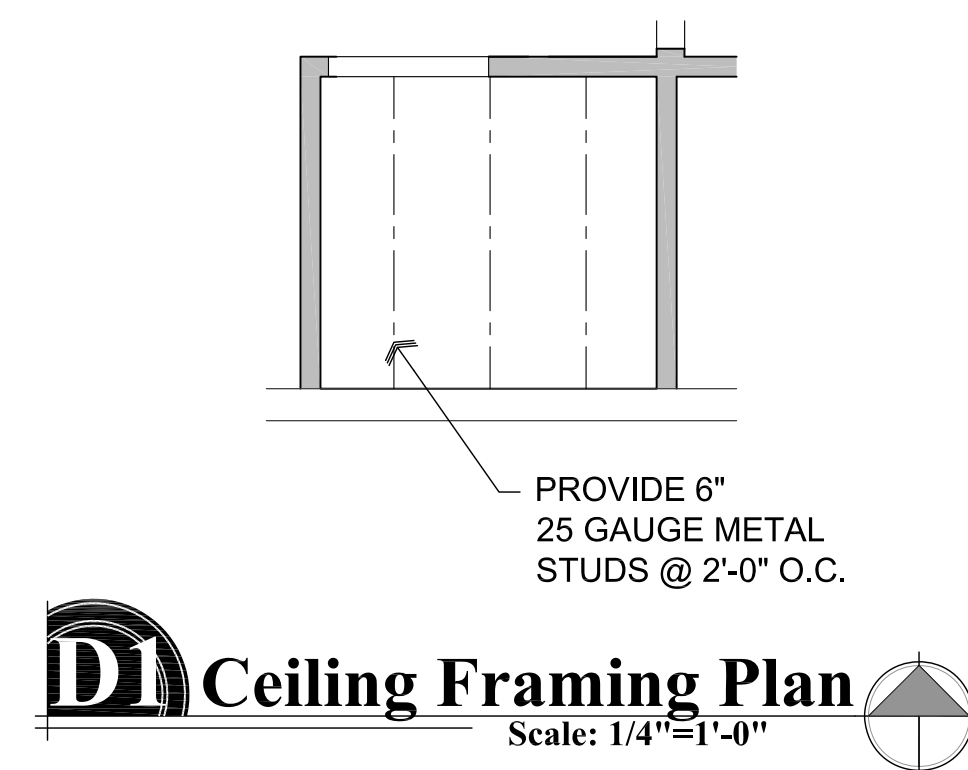
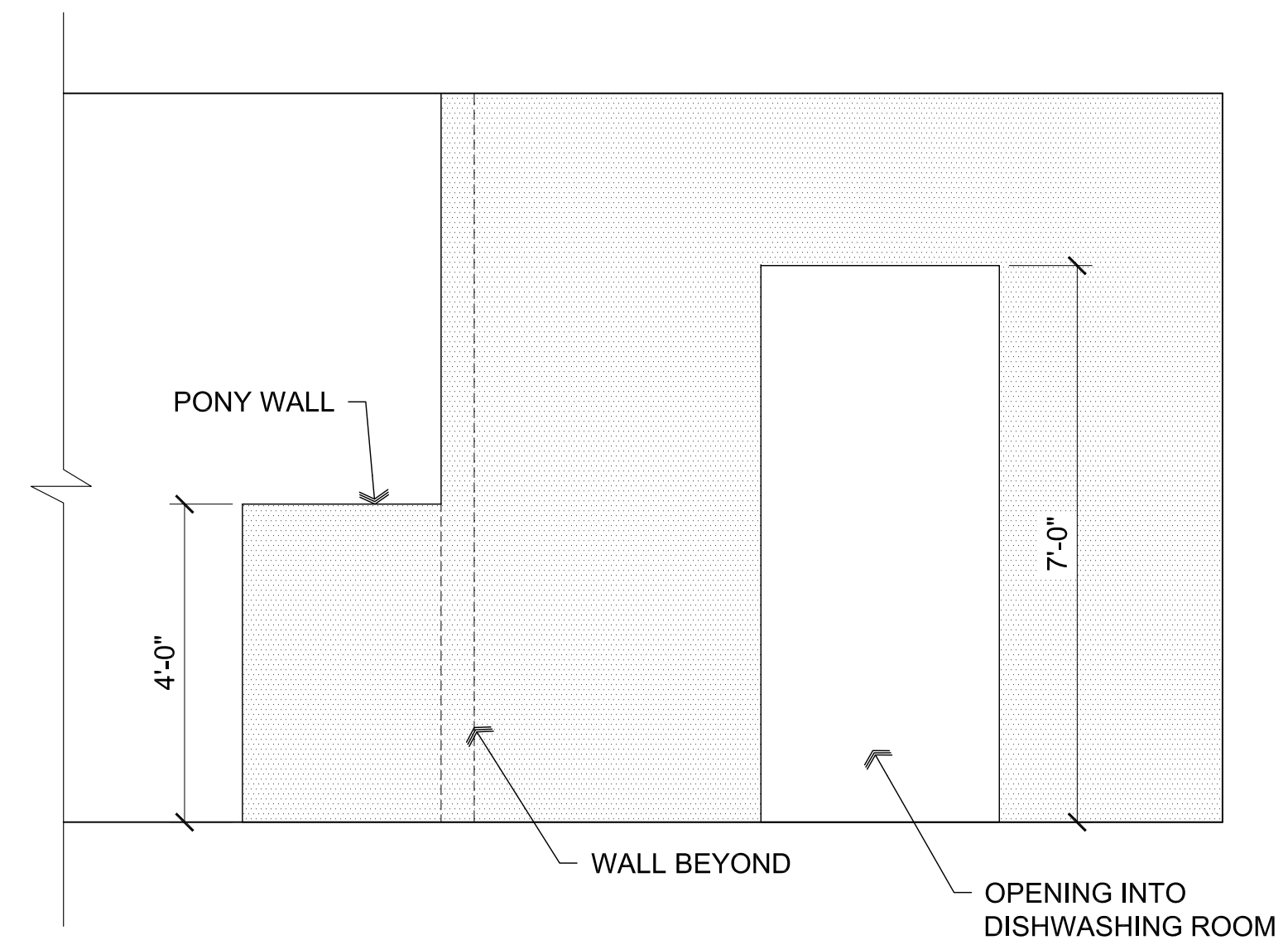
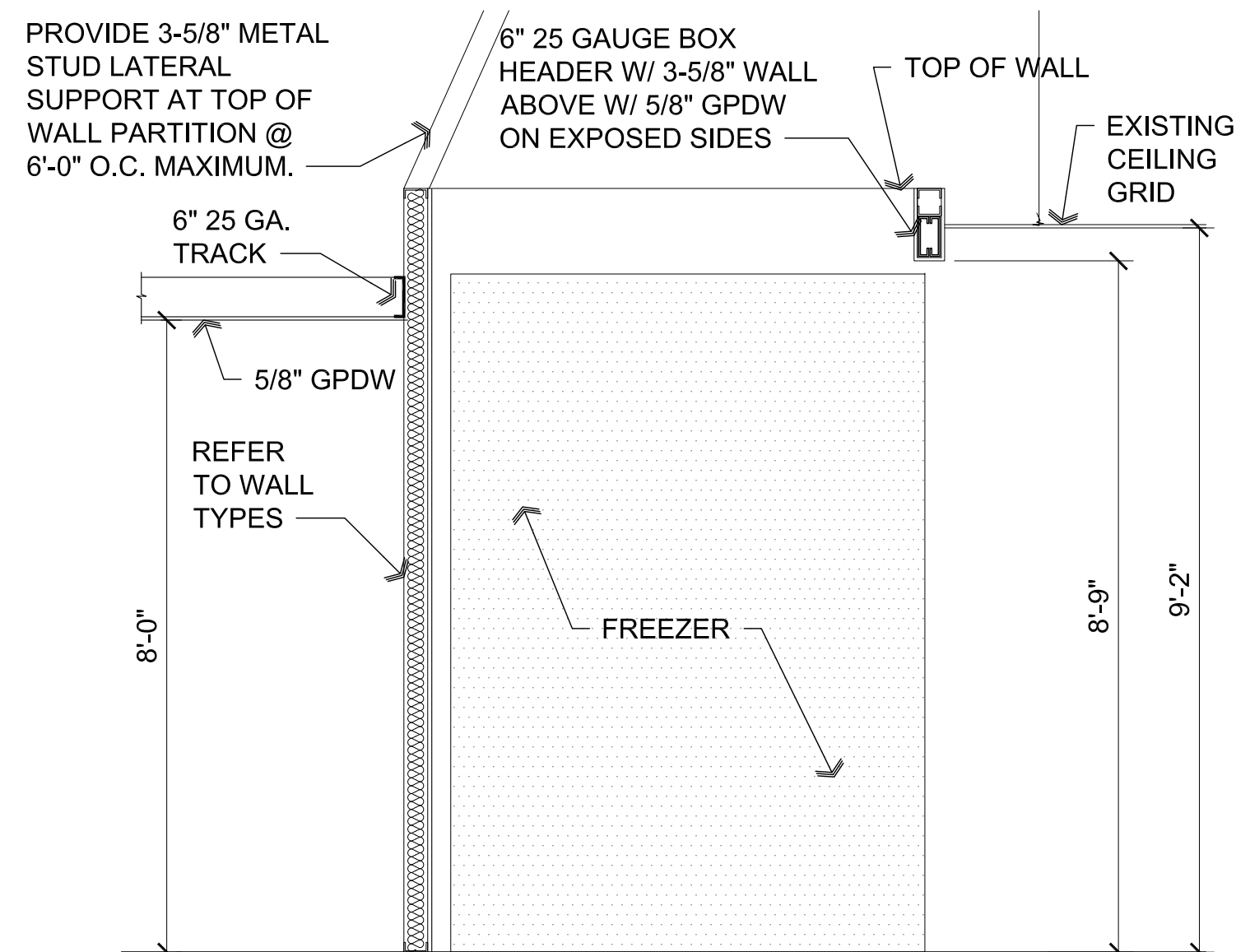
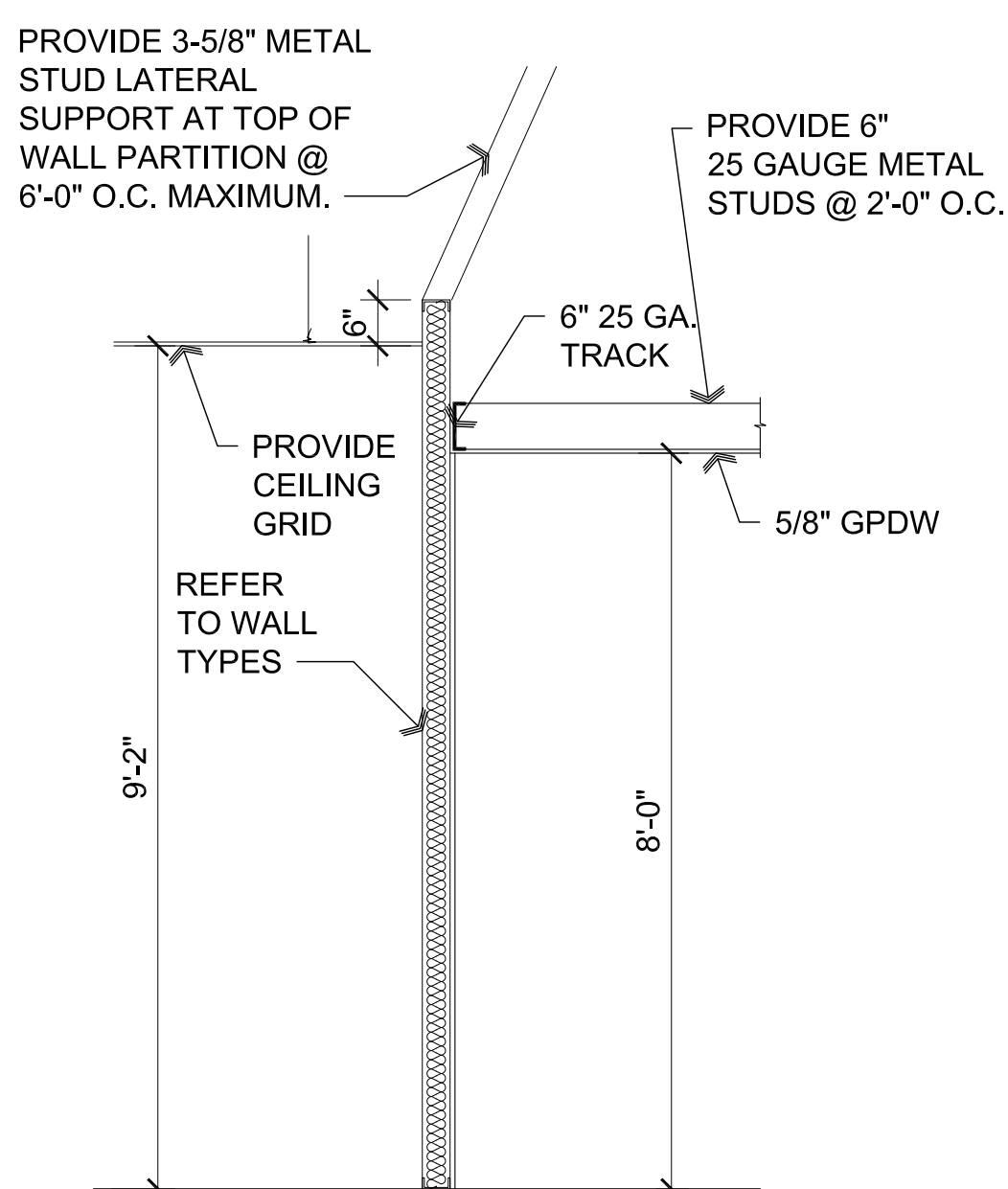
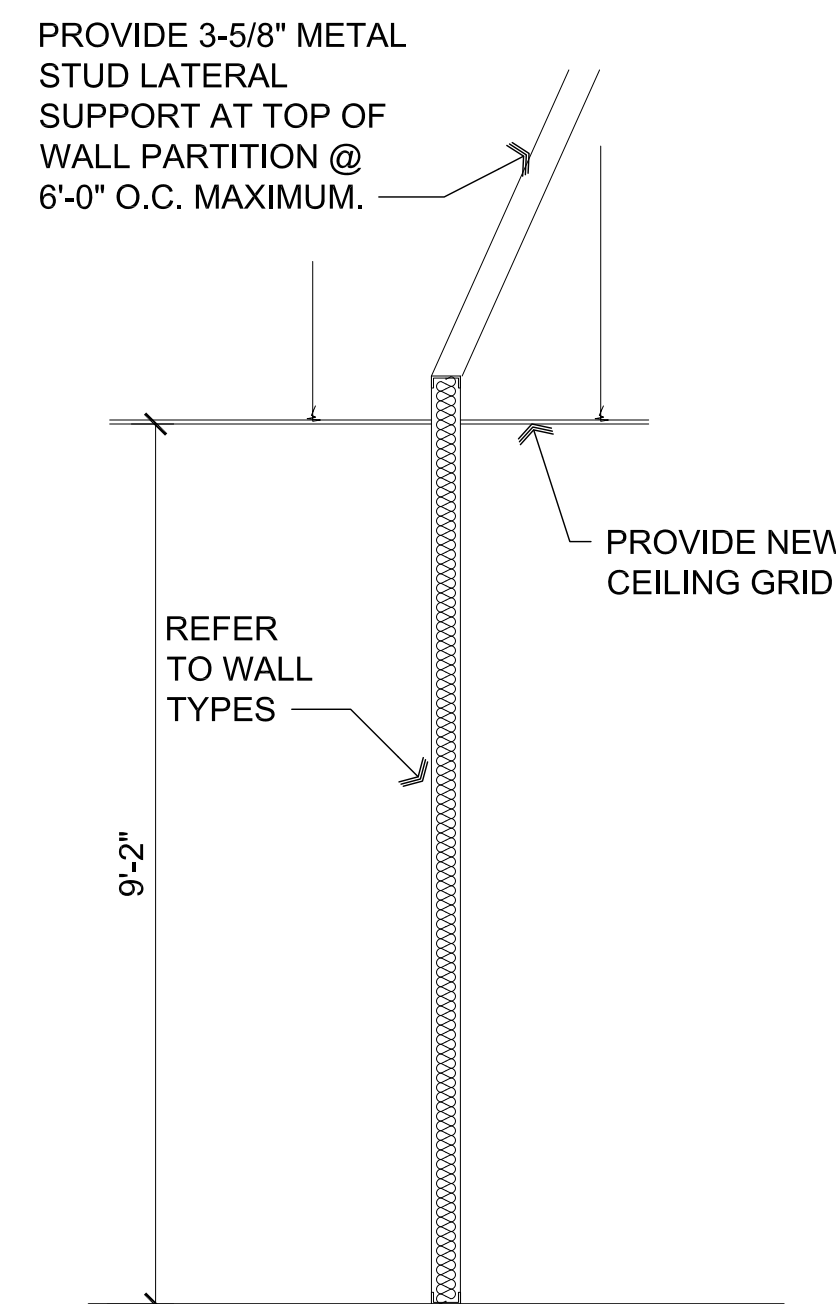
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Mar 10, 2021 - 9:10am



### Descriptive Keynotes

1. REMOVE EXISTING LIGHTING, RETURN TO OWNER.
2. RELOCATE EXISTING DUCTWORK / DIFFUSER, REFER TO MECHANICAL PLANS.
3. EXISTING HVAC SUPPLY DIFFUSER TO REMAIN, REFER TO MECHANICAL PLANS.
4. EXISTING HVAC RETURN TO REMAIN.
5. REMOVE EXISTING CEILING GRID / PANELS.
6. REMOVE DRYWALL CEILING / STRUCTURE, TO BE REPLACED WITH GRID CEILING.
7. EXISTING LIGHT FIXTURE TO BE RELOCATED TO THE WEST 1'-0".
8. EXISTING LIGHT FIXTURE TO REMAIN.
9. NOT USED.
10. PROVIDE NEW LIGHT FIXTURE, TYPICAL, REFER TO ELECTRICAL PLANS.
11. PROVIDE NEW CEILING GRID, TYPICAL, REFER TO MATERIALS AND ROOM FINISH SCHEDULES.
12. RELOCATED HVAC SUPPLY DIFFUSER.
13. EXISTING LIGHT FIXTURE TO REMAIN, TYPICAL.
14. EXISTING LIGHT FIXTURE TO BE RELOCATED TO THE WEST 1'-0".
15. EXISTING HVAC SUPPLY DIFFUSER TO REMAIN.
16. PROVIDE 5/8" GPDW CEILING.



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**ARCHITECTURE & PLANNING**

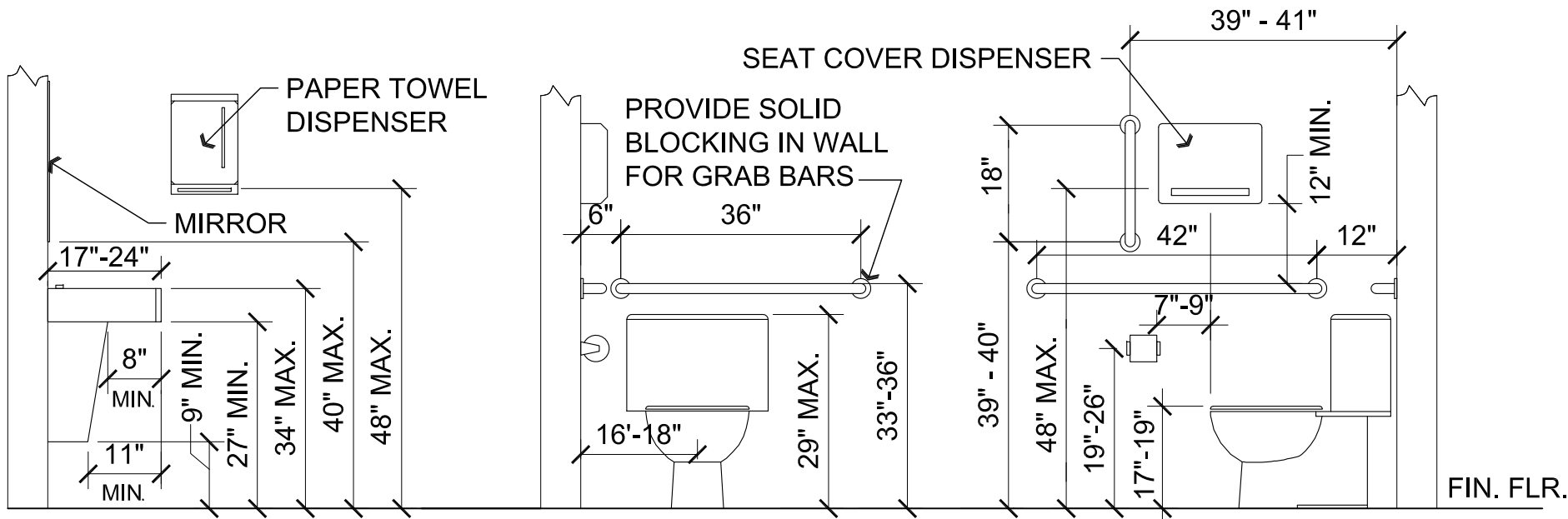
**DRAWING:** Demolition and Proposed Reflected Ceiling Plans  
Wall Sections and Interior Elevation  
**PROJECT:** Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336  
**APN:** 408-24-358

**DRAWN BY** L.O.  
**CHECKED BY** W.A.K.  
**DATE** March 9th, 2021  
**JOB NO.** 765  
**SHEET**

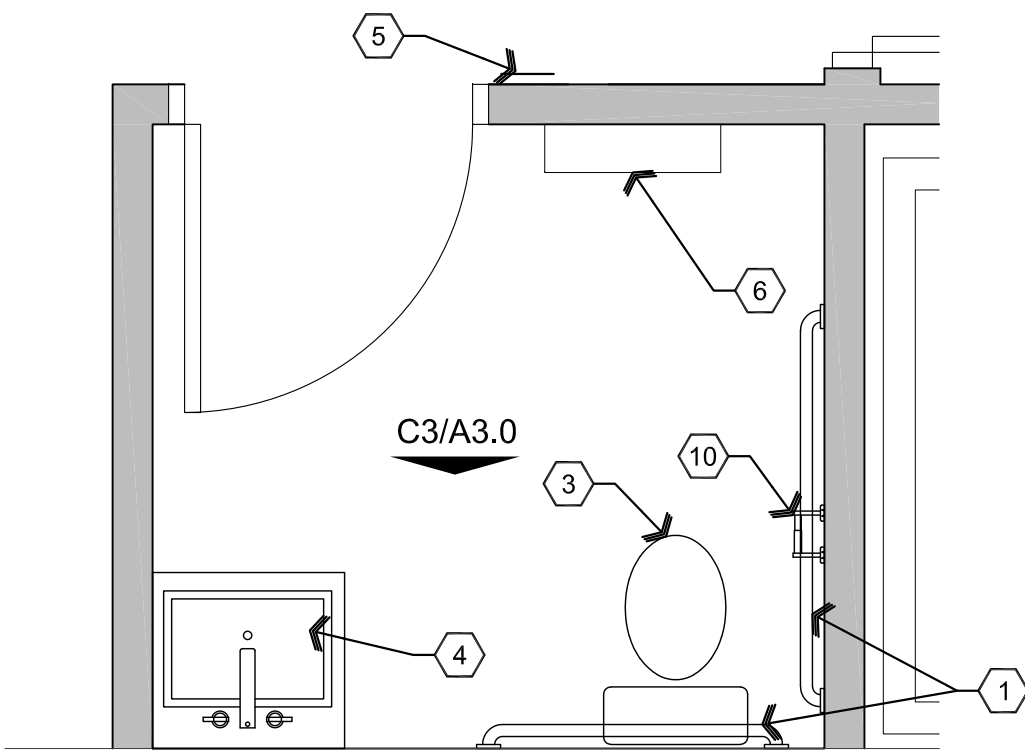
**A2.0**



Toilet Accessory & Plumbing Fixture Schedule							
CODE	FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	COLOR	COMMENTS	INSTALLED BY
TA-1	HAND SOAP DISPENSER					PROVIDED BY OWNER	OWNER
TA-2	PAPER TOWEL DISPENSER					PROVIDED BY OWNER	OWNER
TA-3	GRAB BARS 18" (RE-USE EXISTING 36" & 42")	1 1/4" DIAMETER	BOBRICK	B-5806	STAINLESS STEEL	PROVIDED BY CONTRACTOR VERIFY EXISTING GRAB BARS FOR RE-USE	CONTRACTOR
TA-4	TOILET SEAT COVER DISPENSER	HALF FOLD	BOBRICK	B-221	STAINLESS STEEL	PROVIDED BY CONTRACTOR	CONTRACTOR
TA-5	TOILET PAPER DISPENSER	SURFACE MOUNTED	BOBRICK	B-6857	SATIN FINISH STAINLESS STEEL	PROVIDED BY CONTRACTOR	CONTRACTOR
TA-6	BABY CHANGING STATION	SURFACE MOUNTED	KOALA KARE	KB101-00	CREAM	PROVIDED BY CONTRACTOR	CONTRACTOR
TA-7	MIRROR					PROVIDED BY OWNER	CONTRACTOR
TA-8	TRASH CAN					PROVIDED BY OWNER	OWNER
PF-1	UNDERMOUNT SINK					PROVIDED BY OWNER (QUARTZ COUNTERTOP PROVIDED BY CONTRACTOR)	CONTRACTOR
PF-2	TOILET	ADA HEIGHT ONE PIECE TOILET	KOHLER	SAN SOUCI K5172	BISCUIT	PROVIDED BY CONTRACTOR	CONTRACTOR



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

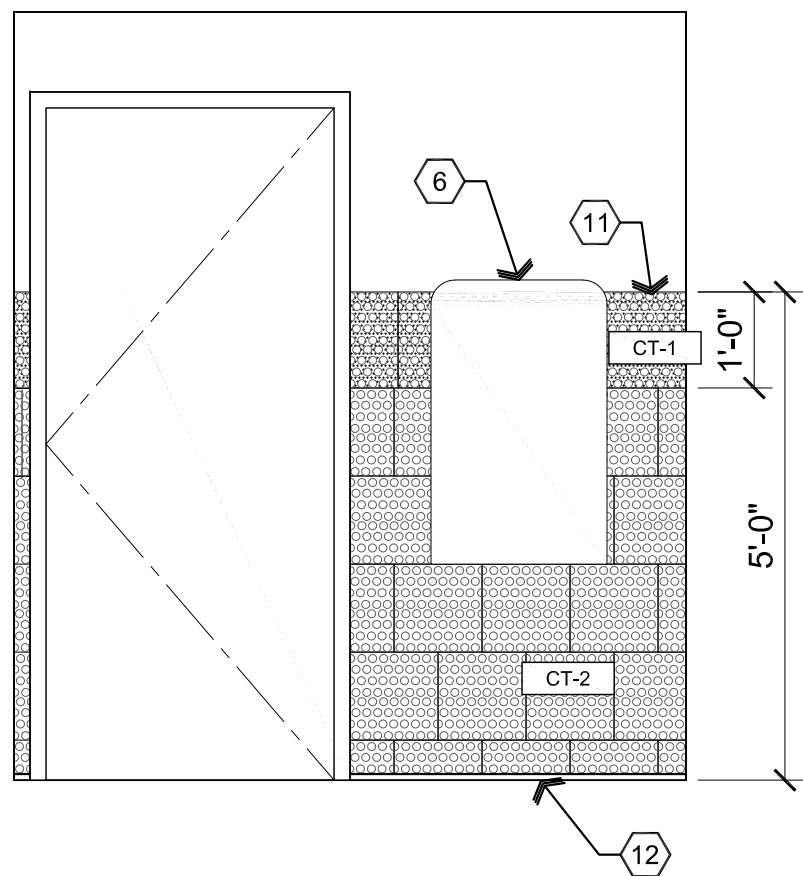


D3 Enlarged Plan  
Scale: 1/2"=1'-0"

Descriptive Keynotes

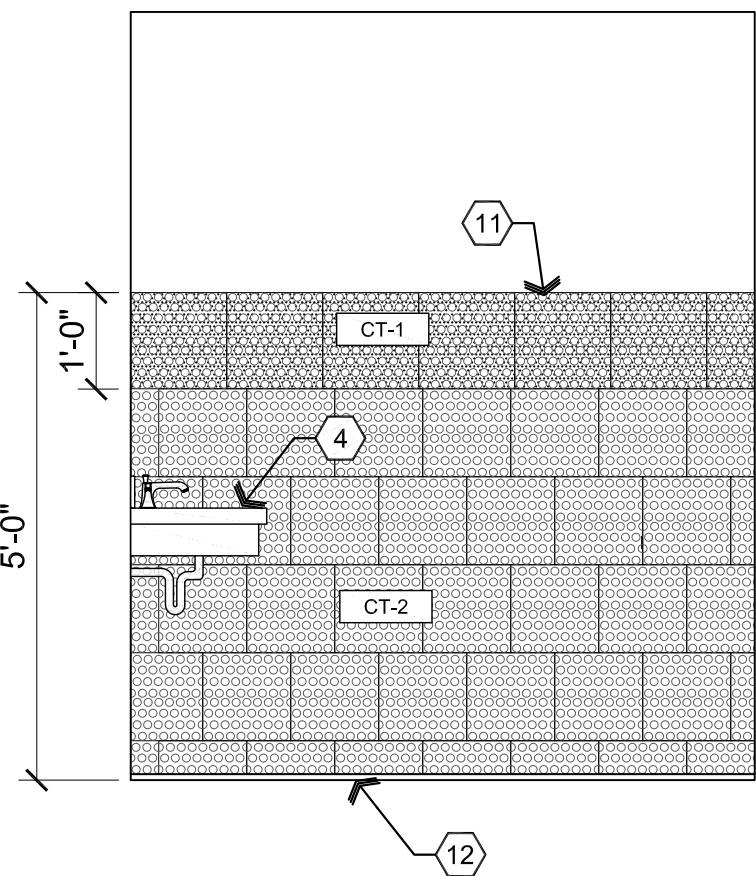
- PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS. 42" LONG AT SIDE OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET / 18" VERTICAL GRAB BAR, PROVIDE SOLID BLOCKING. REFER TO TOILET ACCESSORY SCHEDULE. [TA-3]
- NOT USED.
- TOILET, REFER TO TOILET ACCESSORY SCHEDULE, PROVIDED BY OWNER.
- INTEGRAL LAVATORY IN SOLID SURFACE COUNTERTOP, INSULATE PIPES, REFER TO PLUMBING PLANS. [SS-1] [PF-1]
- PROVIDE ACCESSIBILITY SIGNAGE MOUNTED PER A.D.A. REQUIREMENTS.
- PROVIDE BABY CHANGING STATION, REFER TO TOILET ACCESSORY SCHEDULE. [TA-6]
- MIRROR PROVIDED BY OWNER. [TA-7]
- SOAP DISPENSER PROVIDED BY OWNER, REFER TO TOILET ACCESSORY SCHEDULE. [TA-1]
- PROVIDE SURFACE MOUNTED TOILET SEAT COVER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. [TA-4]
- PROVIDE TOILET PAPER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. [TA-5]
- PROVIDE CERAMIC TILE, REFER TO MATERIALS SCHEDULE.
- PROVIDE SCHLUTER TRIM, REFER TO MATERIALS SCHEDULE.
- REFRIGERATED DISPLAY CASE, REFER TO KITCHEN PLAN AND SCHEDULE.
- PROVIDE MILLWORK CABINETRY AND SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH.
- PROVIDE PLASTIC LAMINATE SHELVING AS SELECTED BY OWNER, REFER TO MATERIALS SCHEDULE.
- UNDER COUNTER REFRIGERATOR, REFER TO KITCHEN PLAN AND SCHEDULE.
- HAND WASH SINK, REFER TO KITCHEN PLAN AND SCHEDULE.
- PROVIDE OPEN SHELVING CABINET WITH SOLID SURFACE COUNTERTOP WITH 1'-0" OVERHANG.

A3 Typical Fixture Mounting Heights



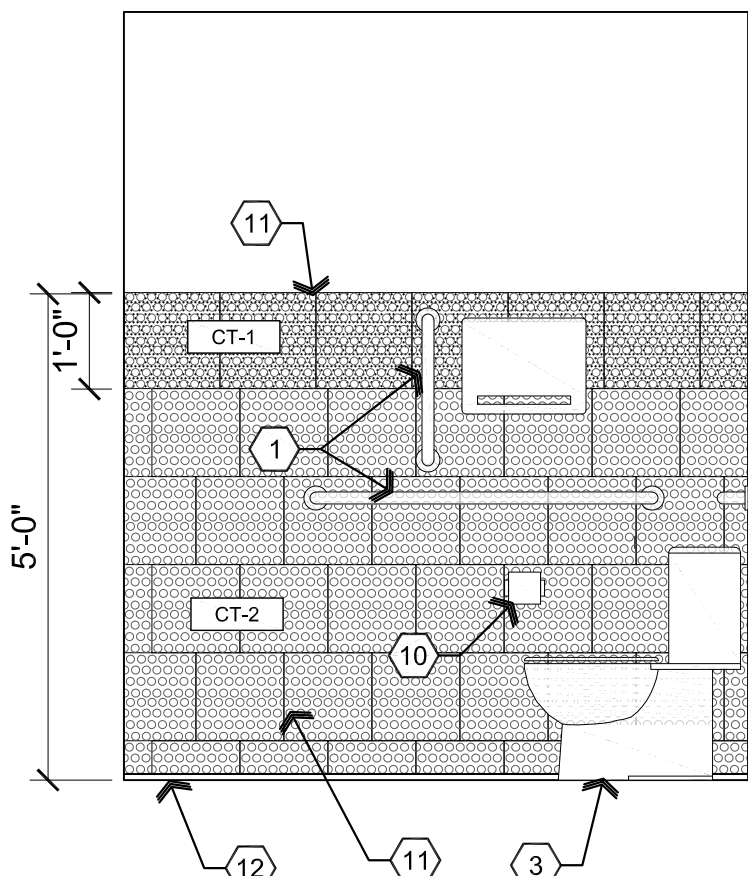
A2 Elevation

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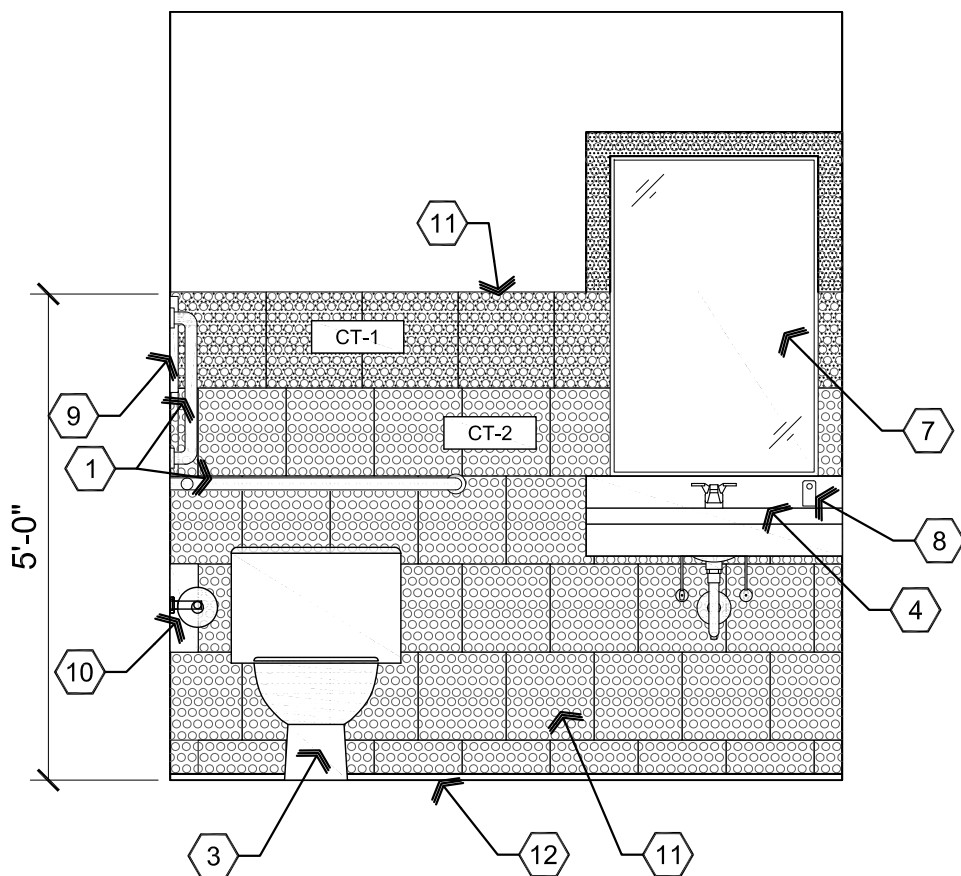
B2 Elevation

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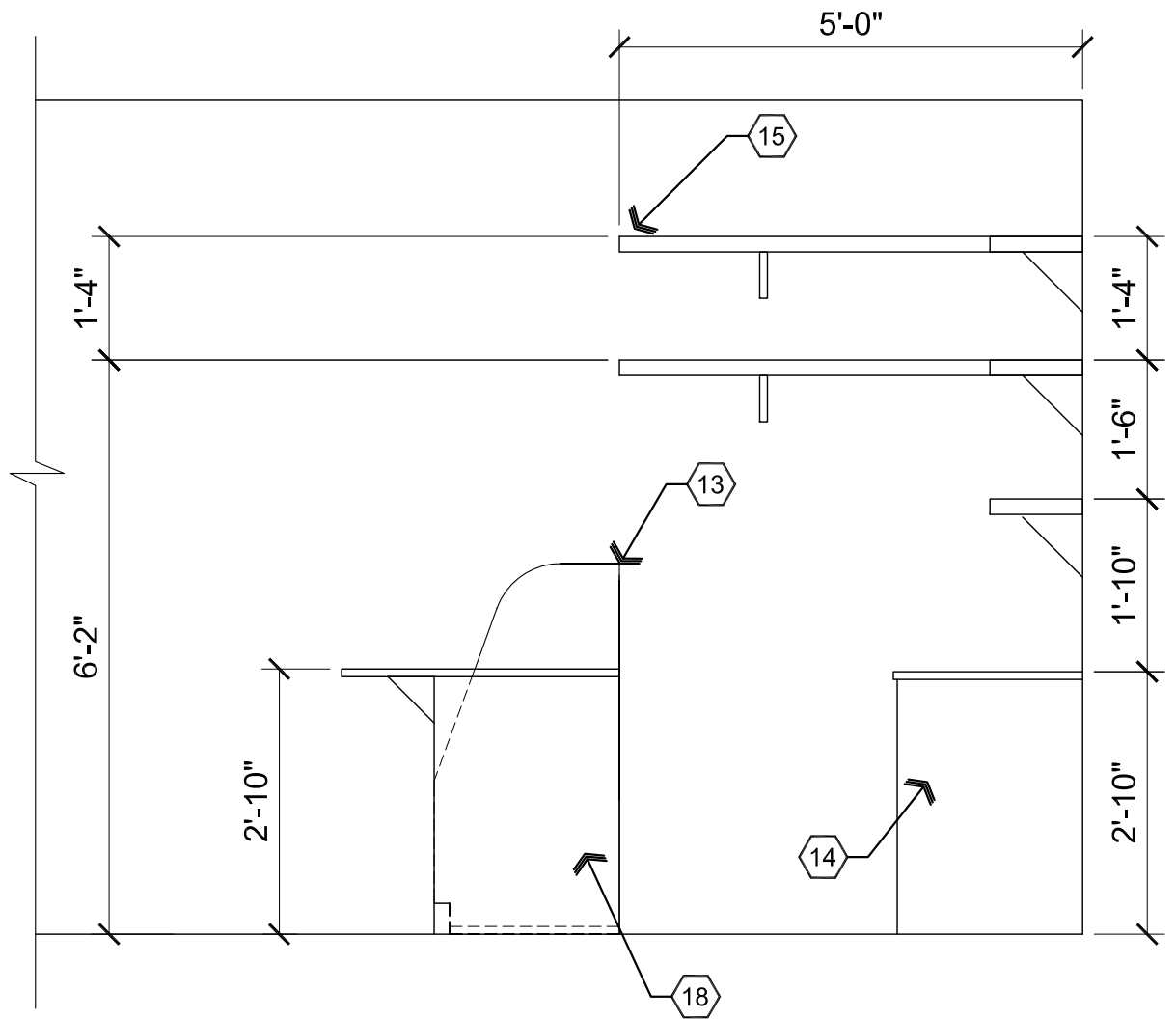
C2 Elevation

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



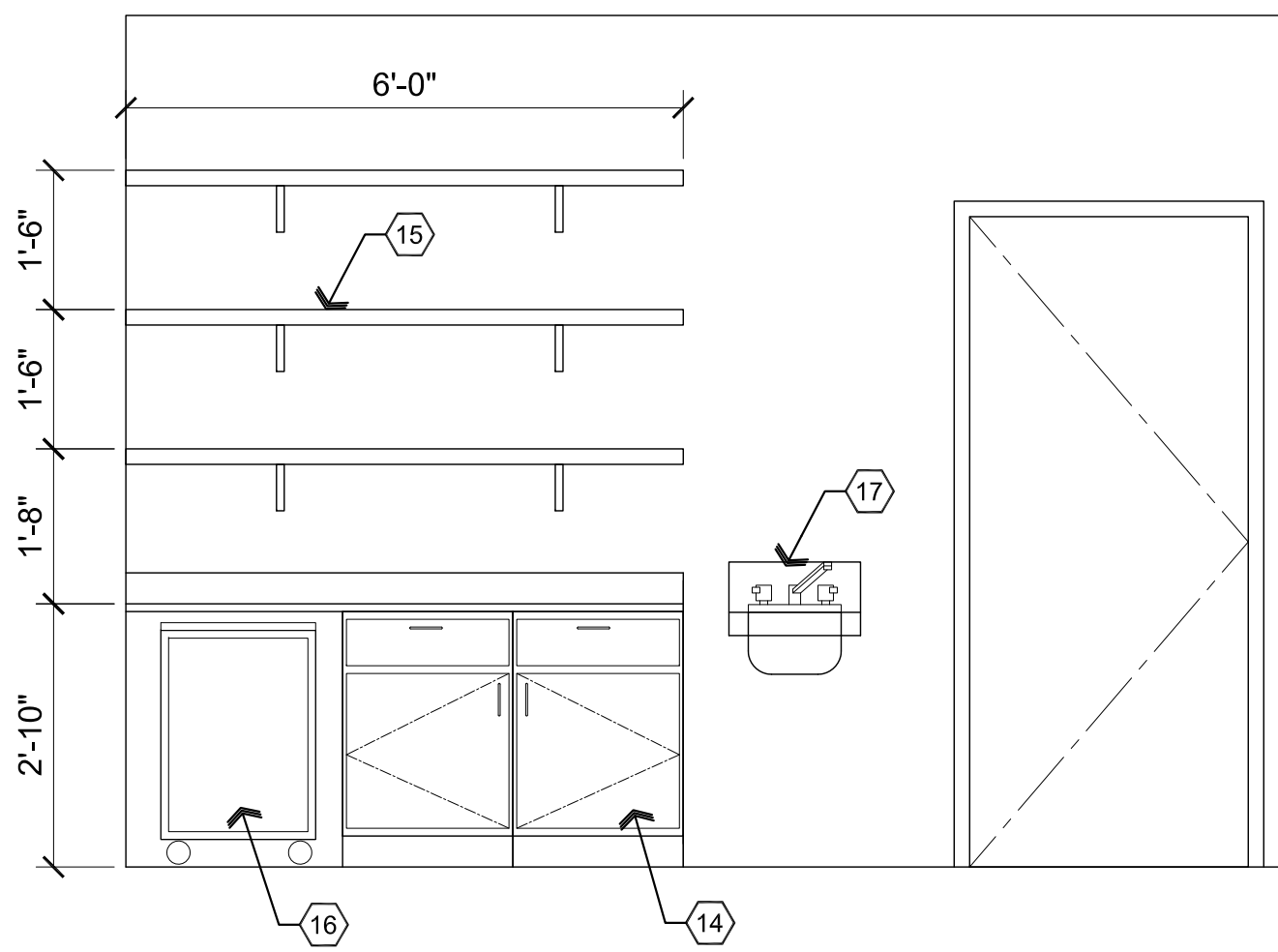
D2 Elevation

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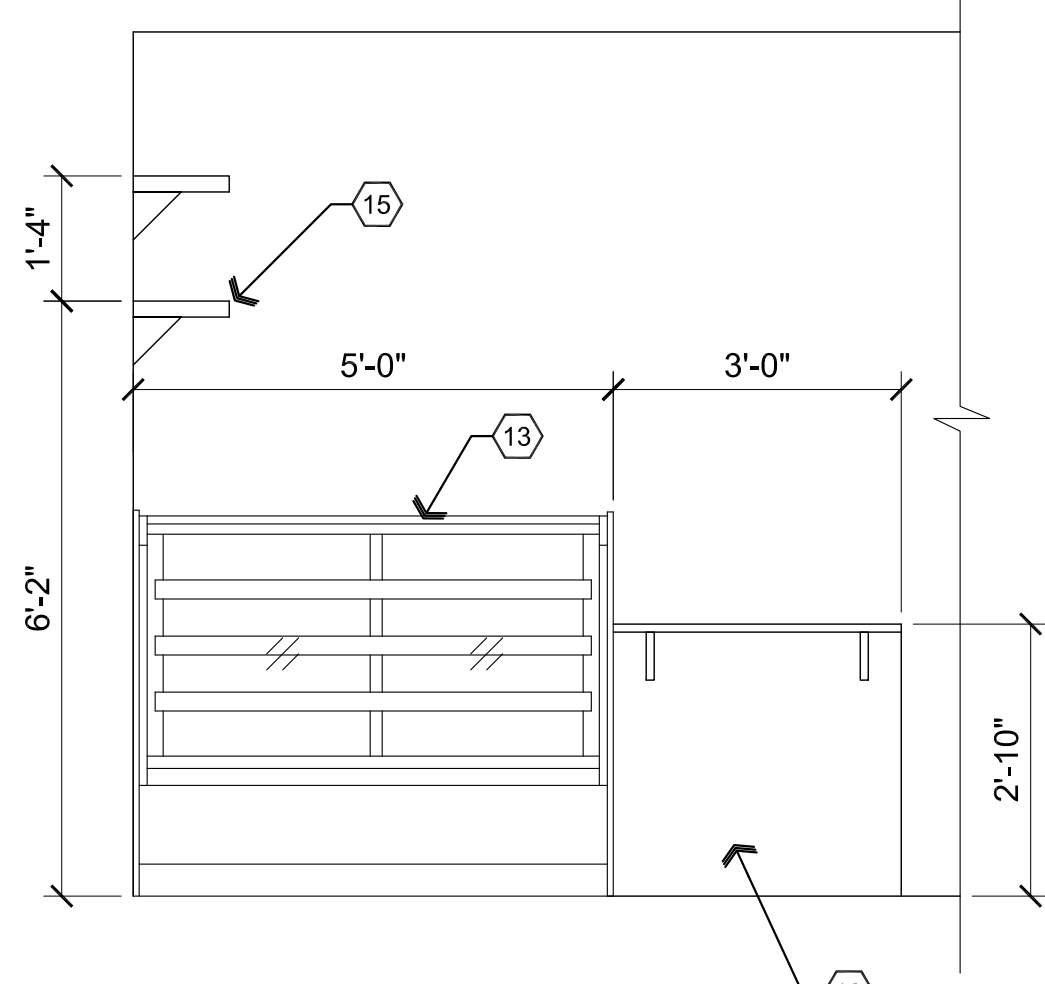
A1 Elevation

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



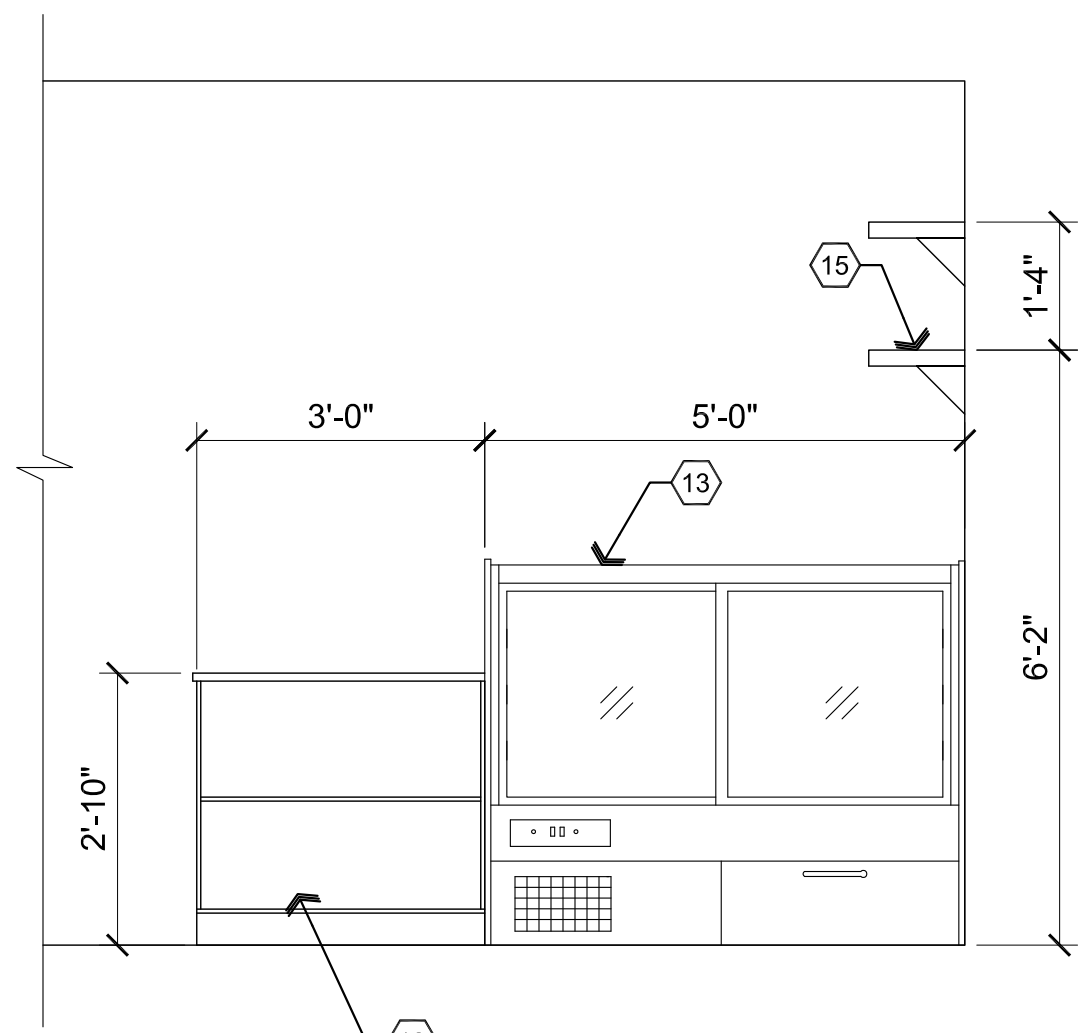
B1 Elevation

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



C1 Elevation

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



D1 Elevation

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

W. Alan Kenson & Associates, P.C.

DRAWING: Enlarged Plan, Interior Elevations  
ADA Mounting Heights and Toilet Accessory Schedule

PROJECT: Crescendo Chocolates T1  
2055 W. Slate Rt. 89A, Suite B  
Sedona, AZ 86336

APN: 408-24-358

DRAWN BY  
L.O.

CHECKED BY  
W.A.K.

DATE  
March 9th, 2021

JOB NO.  
765

SHEET

A3.0

REVISIONS

BY

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25646  
W. ALAN  
KENSEN  
P.C.  
ARCHITECT  
P.C.  
ARIZONA, U.S.A.  
EXPIRES: 6/30/21

Materials schedule

XX- #

CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION	COMMENTS
ACT-1	ACOUSTICAL CEILING TILE	RETAIL AREA	ARMSTRONG	CORTEGA 24x48 LAY-IN TILE, WHITE SUSPENDED GRIDS; 15/16" METAL WHITE	
ACT-2	ACOUSTICAL CEILING TILE	KITCHEN AREA	ARMSTRONG	KITCHEN ZONE™ 24" X 48" PANELS	
CT-1	PORCELAIN TILE	RESTROOM WALLS	FLOOR & DECOR	FESTIVAL PENNY WHITE POLISHED PORCELAIN MOSAIC 11x11	VERIFY WITH TENANT
CT-2	PORCELAIN TILE	RESTROOM WALL 12" BAND TOP AT 60"	FLOOR & DECOR	FESTIVAL BUBBLEGUM II PORCELAIN PENNY MOSAIC 12x12	VERIFY WITH TENANT
CT-3	PORCELAIN TILE	RESTROOM FLOOR	FLOOR & DECOR	MELBOR BROWN PORCELAIN TILE 24x24	VERIFY WITH TENANT
PL-1	PLASTIC LAMINATE	LOWER CABINETS	WILSONART	BURNISHED CHESTNUT 4796	VERIFY WITH TENANT
PL-2	PLASTIC LAMINATE	SHELVES IN RETAIL AREA	WILSONART	BURNISHED CHESTNUT 4796	VERIFY WITH TENANT
PT-1	PAINT	WALLS	SHERWIN WILLIAMS	SPUN SUGAR SW 6337	VERIFY WITH TENANT
PT-2	PAINT	ACCENT WALL	SHERWIN WILLIAMS	ROSE COLORED SW 6303	VERIFY WITH TENANT
PT-3	PAINT	BATHROOM WALLS	SHERWIN WILLIAMS	SNOWFALL SW 6000	VERIFY WITH TENANT
RB-1	RUBBER BASE	NEW WALLS AND WHERE BASE IS MISSING AT EXISTING WALLS	ROPPE	TO MATCH EXISTING	
SS-1	SOLID SURFACE COUNTERTOP	BATHROOM COUNTERTOP	WILSONART	CALMING WAVES 9240SS	VERIFY WITH TENANT
SS-2	SOLID SURFACE COUNTERTOP	RETAIL COUNTERTOPS	WILSONART	ORION'S BELT 9213CM	VERIFY WITH TENANT

Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
101A	RESTROOM	3'-0"x7'-0"	A	SCWD	STAIN	HM	PAINT	01
102A	KITCHEN	3'-0"x7'-0"	A	SCWD	STAIN	HM	PAINT	02

- NOTES:
- ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C.
  - DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
  - ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
  - ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
  - ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
  - IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
  - DOOR HANDLES, 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. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
  - DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

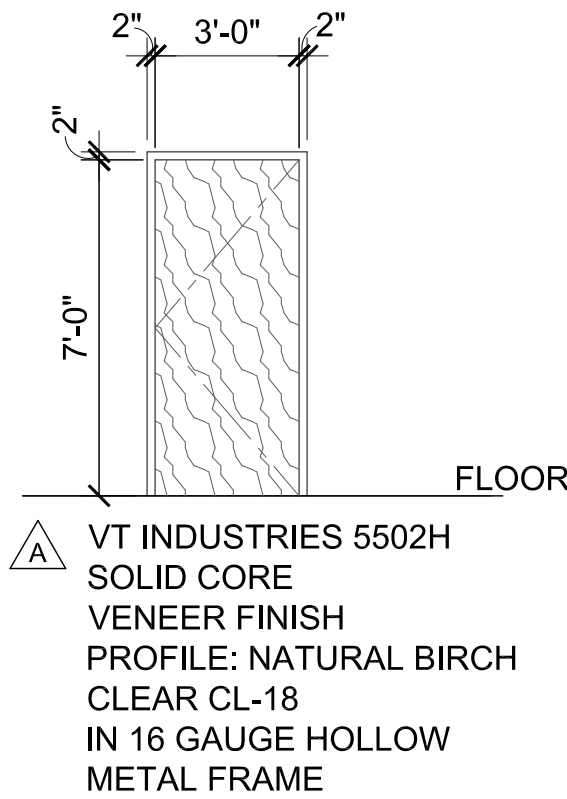
DOOR HARDWARE SCHEDULE

HARDWARE SET #1  
SINGLE DOOR  
DOOR: TAG 101A

QTY	DESCRIPTION	FIN	MFG.
3	HINGE FBB170 4.5 X 4.5	626	STANLEY
1	PRIVACY W301 X DANE	626	FALCON
1	WALL STOP 1270CV	626	TRIMCO

HARDWARE SET #2  
SINGLE DOOR  
DOOR: TAG 102A

QTY	DESCRIPTION	FIN	MFG.
3	HINGE FBB170 4.5 X 4.5	626	STANLEY
1	PASSAGE W101 X DANE	626	FALCON
1	WALL STOP 1270CV	626	TRIMCO



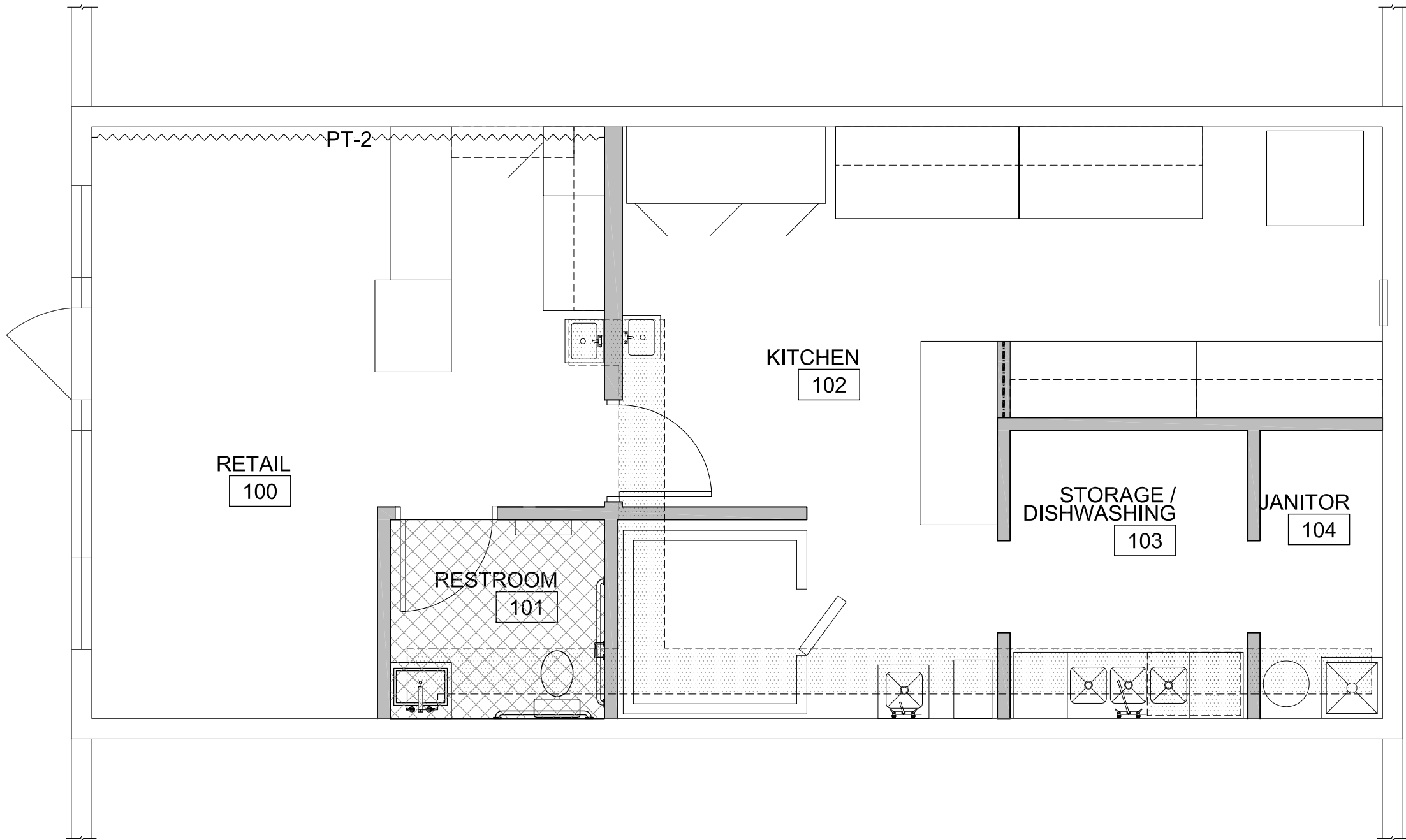
Room Finish Schedule

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
100	RETAIL	F1	B1	W1	C1	9'-2"
101	RESTROOM	F2	B2	W1/W2	C2	8'-0"
102	KITCHEN	F1	B1	W1	C1	9'-2"
103	DISHWASHING	F1	B1	W1	C1	9'-2"
104	JANITOR	F1	B1	W1/W3	C1	9'-2"

- FLOOR:  
F1 EXISTING TILE  
F2 PORCELAIN TILE CT-3
- BASE:  
B1 EXISTING / NEW RUBBER BASE RB-1  
B2 SCHLUTER TRIM
- WALLS:  
W1 PAINTED GPDW PT-1 PT-2 PT-3  
W2 PORCELAIN TILE WAINSCOT CT-1 CT-2  
W3 FRP WAINSCOT
- CEILING:  
C1 NEW SUSPENDED ACT-1 ACT-2  
C2 PAINTED GPDW

Legend

- TILE CT-1
- EXISTING
- RE-COMPACT SOILS, PROVIDE CONCRETE TO MATCH EXISTING AND REPAIR FLOOR TILE AS DIRECTED BY TENANT
- ACCENT WALL PAINT COLOR PT-2



A1 Room Finish Plan

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



REVISIONS	BY

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**ARCHITECTURE & PLANNING**

**DRAWING:** Room Finish Plan and Schedules

**PROJECT:** Crescendo Chocolates T1  
2055 W. Slate Rt. 89A, Suite B  
Sedona, AZ 86336

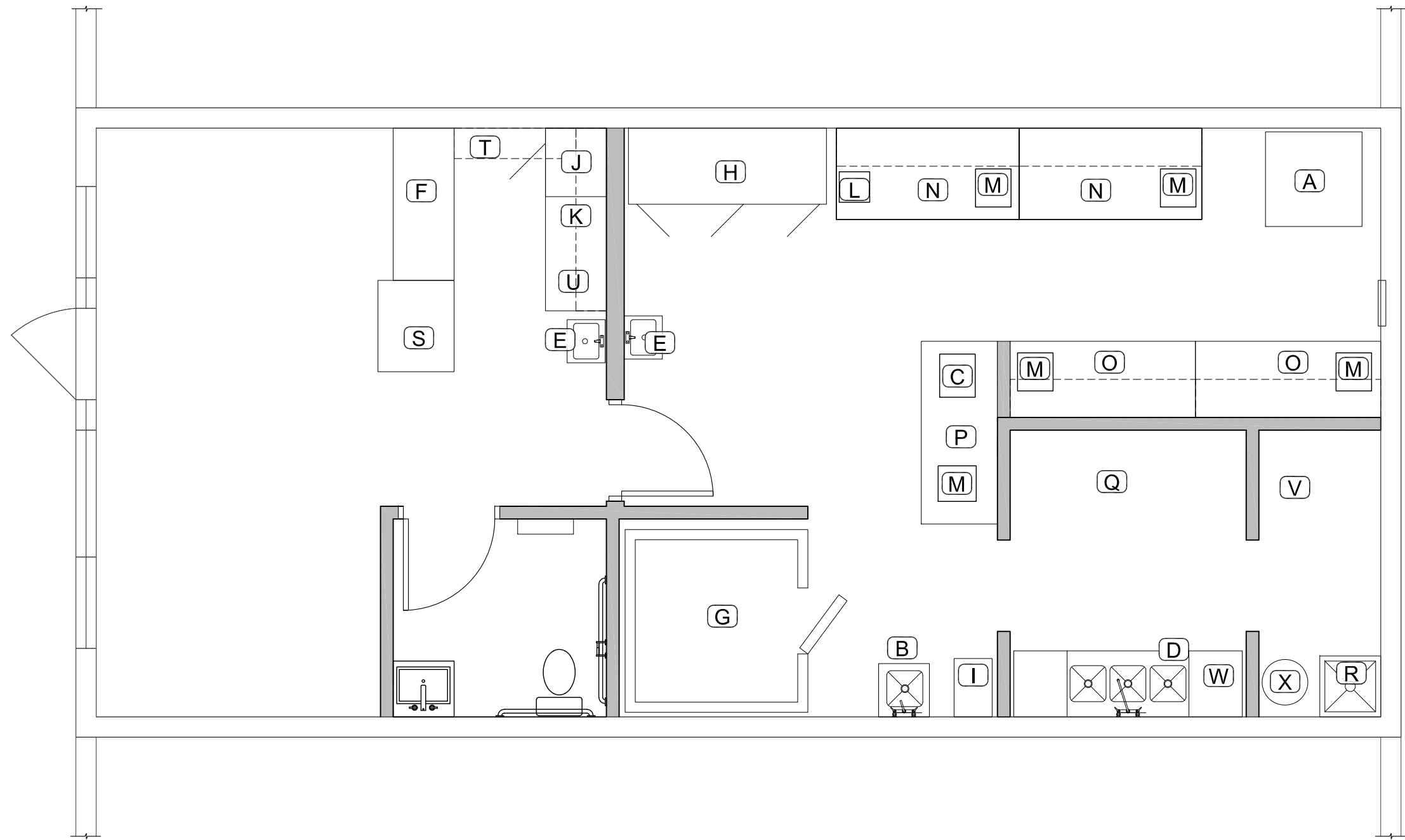
**APN:** 408-24-358

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE March 9th, 2021
JOB NO. 765
SHEET

A4.0



Kitchen Equipment List											
LABEL	QUANTITY	EQUIPMENT NAME	MANUFACTURER	MODEL	VOLTS	AMPS	WATTS	PHASE	HP	PROVIDED BY	NOTES
A	1	CONVECTION OVEN 38x30.25	SOUTHBEND	SLES/10	208	34	12000	3	1/2	OWNER	
B	1	18 GAUGE STAINLESS STEEL SINGLE COMPARTMENT SINK WITH FAUCET	STEELTON	ITEM # 522CS115FW	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	
C	1	TOASTER OVEN	RUSSELL HOBBS	26095	220	N/A	1500	1	N/A	OWNER	
D	1	3 COMPARTMENT SINK 7'-6"x2'-0" FAUCET BY OWNER	ADVANCE TABCO	FC-3-1818-18RL	N/A	N/A	N/A	N/A	N/A	OWNER	
E	2	HAND SINK 20"x16"	JUST	A-544	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	REFER TO PLUMBING PLANS
F	1	60x24 REFRIGERATED DISPLAY CASE	FEDERAL	FCCR5	120	N/A	9	1	N/A	OWNER	
G	1	WALK IN FREEZER 6'x6'	NOR-LAKE	KLF7866-C	208-230	N/A	N/A	1	1-1/2	OWNER	
H	1	THREE DOOR REFRIGERATOR	TRUE	T-49	115	9.2	N/A	1	1/2	OWNER	
I	1	ICE MACHINE	AVANTCO	UC-77-BA16"	115	6	N/A	1	N/A	OWNER	
J	1	UNDER COUNTER REFRIGERATOR	BEVERAGE-AIR	UCR20HC	115	2	N/A	1	1/6	OWNER	
K	1	BEVERAGE STEAMER	ASTRA	STS1300	110	20	1300	1	N/A	OWNER	
L	1	BLENDER	VITA-MIX	VMO103	120	11.5	N/A	1	N/A	OWNER	
M	4-5	INDUCTION BURNER	VOLLRATH	59500P	120	15	1800	1	N/A	OWNER	
N	2	36x72 STAINLESS STEEL TABLE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
O	2	30x72 STAINLESS STEEL TABLE WITH SHELVES ABOVE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
P	1	30x72 STAINLESS STEEL TABLE (NO SHELVES ABOVE)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
Q	1	CLEAN DISH STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
R	1	MOP SINK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	
S	1	MILLWORK - CUSTOMER COUNTERTOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	
T	1	MILLWORK - DISPLAY SHELVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	
U	1	MILLWORK - COUNTERTOP WITH SHELVES ABOVE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	
V	1	DRY STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
W	1	GREASE TRAP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR	
X	1	WATER HEATER								CONTRACTOR	REFER TO PLUMBING PLANS

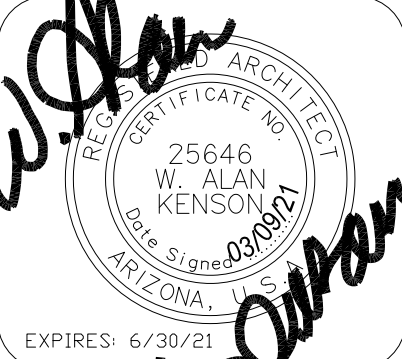


**Kitchen Equipment Plan**  
Scale: 1/4"=1'-0"

Plan North

REVISIONS	BY

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ARCHITECTURE & PLANNING

**DRAWING:** Kitchen Plan and Schedule

**PROJECT:** Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336

**APN:** 408-24-358

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE March 9th, 2021
JOB NO. 765
SHEET

**K1.0**

ASHRAE 62.1 VENTILATION CALCULATION

(E) AC-1

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Retail Area	273	15	7.5	4.095	0.12	273	63.5
Kitchen Area	433	0	0	0	0	433	0.0
Storage	85	0	0	0	0.12	85	10.2

Total OSA Required	74
Note due to make up air requirements OSA shall be increased to	355

Minimum Exhaust Calculations

Space	Area or Fixtures	Requirement	Min. Exhaust
Kitchen	433	0.70 CFM/FT	303.1
Toilet	1	50 CFM per Fixture	50

Note: All exhaust requirements are met or exceeded.

6.2.2.1 Breathing Zone Outdoor Airflow. The design outdoor airflow required in the breathing zone of the occupiable space or spaces in a zone, i.e., the breathing zone outdoor airflow ( $V_{bz}$ ), shall be determined in accordance with Equation 6-1.

$$V_{bz} = R_p \cdot P_z + R_a \cdot A_z \quad (6-1)$$

where

$A_z$  = zone floor area: the net occupiable floor area of the zone  $m^2$  ( $ft^2$ )

$P_z$  = zone population: the largest number of people expected to occupy the zone during typical usage. If the number of people expected to occupy the zone fluctuates,  $P_z$  may be estimated based on averaging approaches described in Section 6.2.6.2

Note: If  $P_z$  cannot be accurately predicted during design, it shall be an estimated value based on the zone floor area and the default occupant density listed in Table 6-1.

$R_p$  = outdoor airflow rate required per person as determined from Table 6-1

Note: These values are based on adapted occupants.

$R_a$  = outdoor airflow rate required per unit area as determined from Table 6-1

DUCT CONSTRUCTION NOTES

1 - ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE" AND "SMACNA STANDARDS" AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING, MECHANICAL AND ENERGY CONSERVATION CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

2 - FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS I REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 10'-0", EXCEPT AS APPROVED BY ARCHITECT.

3 - PROVIDE MANUAL BALANCING DAMPER AT EACH BRANCH DUCT TAKE OFF.

4 - ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTION ON DUCTWORK SHALL BE LISTED AND LABELED BY UL 181A OR 181B TAPES AND MASTICS.

5 - ALL AIR SUPPLY AND RETURN DUCTS LOCATED IN CONDITIONED SPACES OR UNCONDITIONED SPACES SEPARATED FROM BUILDING EXTERIOR SHALL HAVE A MIN. R-5 INSULATION VALUE. ALL AIR SUPPLY AND RETURN DUCTS LOCATED IN UNCONDITIONED SPACES NOT SEPARATED FROM BUILDING EXTERIOR SPACES OR EXTERIOR DUCTS SHALL HAVE A MIN. R-8 INSULATION.

6 - PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.

7 - TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

8 - BRANCH DUCT SERVING DIFFUSERS SHALL BE SIZE AS INDICATED. PROVIDE INCREASER OR SHEET METAL PLENUM TO CONNECT TO DIFFUSER AS REQUIRED.

9 - ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. IF DUCT LINER IS USED FOR INSULATION, CONTRACTOR SHALL INCREASE DUCT SIZE ACCORDINGLY.

10 - HANGERS FOR SHEET METAL DUCTWORK SHALL BE INSTALLED AS REQUIRED BY 2018 IMC.

COORDINATION NOTES

1 - COORDINATE OPENING'S FOR GRILLES, REGISTERS, DIFFUSERS AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.

2 - COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL PLANS.

3 - LIGHTING & SPRINKLER HEADS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT & SPRINKLER HEADS.

4 - CONTRACTOR TO COORDINATE THERMOSTAT LOCATIONS WITH OWNER & ARCHITECT PRIOR TO MOUNTING.

5 - ALL THERMOSTATS ARE TO BE MOUNTED AT A HEIGHT OF 48" ABOVE THE FLOOR LEVEL FOR DISABLED ACCESS.

GENERAL REQUIREMENTS

1 - PROVIDE CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS.

2 - PITCH CONDENSATE DRAIN LINE 1/8" PER 12" RUN TOWARDS TERMINATION. INSULATE IN CONDENSATE DRAIN LINE WITH 3/8" CLOSED CELL "ARMIFLEX" TUBE INSULATION, TO PREVENT CONDENSATE DRIP.

3 - PRIOR TO THE CONTRACTOR ORDERING OR SETTING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH STRUCTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE EQUIPMENT.

4 - KEEP ALL VENTS THROUGH ROOF AND EXHAUST DISCHARGE DUCTS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES OR WINDOWS AND FROM ALL VERTICAL PORTIONS OF THE BUILDING.

KEYNOTES

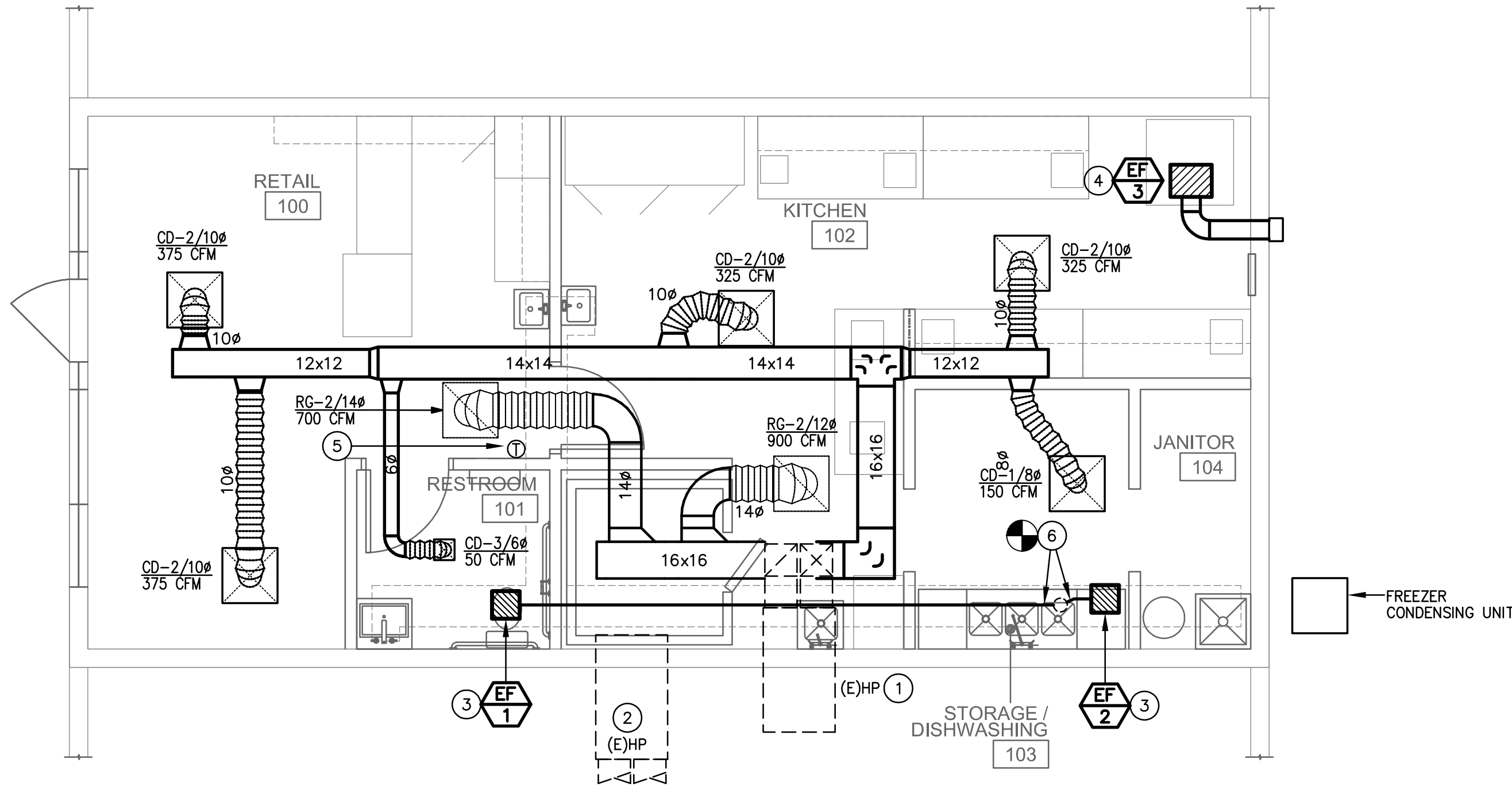
- EXISTING ROOF MOUNTED HEAT PUMP. BALANCE OUTSIDE PER CALCULATION ON THIS SHEET AND MODIFY EXISTING CONDENSATE DRAIN AS REQUIRED TO DISCHARGE INTO NEW JANITORS SINK.
- EXISTING ROOF MOUNTED HEAT PUMP SERVES ADJACENT SUITE AND NOT PART OF THIS WORK.
- CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE 6" DUCT ABOVE CEILING AND TO MANUFACTURER'S ROOF DISCHARGE CAP. MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL OUTSIDE AIR INTAKES. FAN SHALL WITH RESORT LIGHTS.
- CEILING MOUNTED EXHAUST FAN WITH 10" EXHAUST UP TO WALL DISCHARGE CAP #WC-8. FAN SHALL OPERATE VIA WALL SWITCH.
- RELOCATE EXISTING T-STAT, PROVIDE NEW OR EXTEND EXISTING CONTROL WIRING AS REQUIRED.
- EXTEND 6" EXHAUST FROM NEW EXHAUST FAN AND CONNECT TO EXISTING ROOF DISCHARGE CAP.

NOTE:

ALL FLEXIBLE AIR DUCT CONNECTORS SHALL BE TESTED IN ACCORD WITH UL 181 AND LISTED AND LABELED AS CLASS 0 OR CLASS 1.

NOTE:

CONTRACTOR MAY REUSE EXSTING DUCTWORK AND/OR SUPPLY/RETURN GRILLES THAT MEET NEW DESIGN CRITERIA AS SHOWN ON THESE DRAWINGS.



Mechanical Floor Plan

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



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Project #20083

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ARCHITECTURE & PLANNING

DRAWING: Mechanical Floor Plan

PROJECT: Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336

APN: 408-24-358

DRAWN BY

CHECKED BY

DATE  
February 4th, 2021

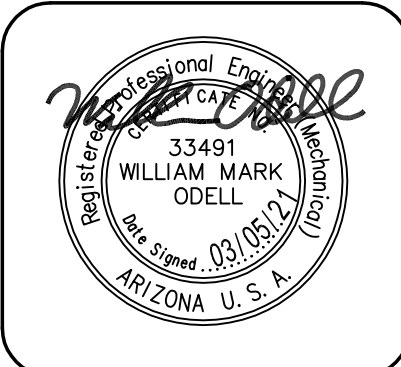
JOB NO.  
765

SHEET

M1.0

REVISIONS	BY

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## MECHANICAL SPECIFICATIONS

### GENERAL REQUIREMENTS

GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION OF SPECIFICATIONS WRITING AND ARE NOT PART OF THE MECHANICAL WORK. THE WORK OF DIVISION 15, MECHANICAL, IS SUBJECT TO THE CONDITIONS OF THE CONDITIONS OF THE CONTRACT, DIVISION 1, GENERAL REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS AND COORDINATE THE MECHANICAL WORK ACCORDINGLY.

### INTENT

IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. SHALL THERE APPEAR TO BE DISCREPANCIES OR QUESTIONS OF INTENT IN THE CONTRACT DOCUMENTS, REFER THE MATTER TO THE ARCHITECT FOR HIS DECISION BEFORE ORDERING ANY MATERIALS OR EQUIPMENT OR BEFORE THE START OF ANY RELATED WORK. THE DECISION OF THE ARCHITECT SHALL BE FINAL, CONCLUSIVE AND BINDING.

### DRAWINGS AND DATA

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY ANY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE OVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN BID PRICE.

### CODES

INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

- APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.
- 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.
- REGULATIONS, PERMITS, INSPECTIONS: COMPLY WITH ALL APPLICABLE CODED, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE UNIFORM MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

### GENERAL

MATERIALS AND EQUIPMENT STANDARD PRODUCTS OF A REPUTABLE MANUFACTURER REGULARLY ENGAGED IN MANUFACTURE OF THE SPECIFIED ITEMS. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOULD VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE, CONTACT ARCHITECT IMMEDIATELY SO THAT VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED. PROVIDE EQUIPMENT FROM MANUFACTURER WHOSE PRODUCTS HAVE LOCAL REPRESENTATION.

### EXECUTION

PROTECT EXISTING ACTIVE SERVICES (WATER, GAS, SEWER, ELECTRIC) WHEN ENCOUNTERED, AGAINST DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, CONSULT WITH OWNER AS TO DATES, PROCEDURES, AND ESTIMATED DURATION OF AT LEAST 10 WORKING DAYS IN ADVANCE OF DATE WHEN WORK IS TO BE PERFORMED. ARRANGE WORK FOR CONTINUOUS PERFORMANCE TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME REQUIRED TO MAKE NECESSARY CONNECTIONS. IF A SYSTEM CANNOT SHUT DOWN, INSTALL TEMPORARY BYPASSES OR JUMPERS UNTIL CONNECTIONS ARE COMPLETE. CONTRACTOR RESPONSIBLE FOR ALL COSTS INCURRED BY ABOVE SHUTDOWNS, INCLUDING BYPASS OR JUMPER INSTALLATIONS, FOR WORK PERFORMED UNDER THIS SECTION. IF EXISTING ACTIVE UTILITY SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO PROPER AUTHORITIES FOR DETERMINATION OF PROCEDURES. PROPERLY TERMINATE EXISTING SERVICES TO BE ABANDONED IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITIES. WHERE CONNECTIONS OR DISRUPTIONS ARE MADE TO EXISTING SYSTEMS, REACTIVATE, REFILL, AND RECHARGE ALL COMPONENTS AND RESTORE SYSTEMS TO OPERATING CONDITIONS AT TIME OF DISRUPTION.

### GUARANTEE

EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. ON FAILURE OF GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM OWNER, THE OWNER MAY HAVE THE WORK DOWN AT THE COST OF GUARANTOR. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER.

PROVIDE EXTENDED FIVE (5) YEAR FACTORY PARTS & LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS.

### AIR CONDITIONING, HEATING AND VENTILATING

#### SCOPE

WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE REMODELING, INSTALLATION AND PLACING INTO OPERATION THE HEATING, VENTILATING AND AIR CONDITIONING WORK AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

#### VERIFICATION OF DIMENSIONS:

SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY AT THE SITE, AND RESPONSIBLE FOR PROPERLY FITTING EQUIPMENT AND MATERIALS TOGETHER AND TO THE STRUCTURE IN SPACES PROVIDED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES IN ORDER TO DETERMINE BEST METHODS, EXACT LOCATIONS, ROUTES AND BUILDING OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

#### CUTTING AND PATCHING:

CUT EXISTING WORK AND PATCH AS NECESSARY TO PROPERLY INSTALL THE NEW WORK. AS THE WORK PROGRESSES, LEAVE NECESSARY OPENINGS, HOLES AND CHASES, ETC., IN THEIR CORRECT LOCATIONS. IF THE REQUIRED OPENINGS, HOLES AND CHASES ETC., ARE NOT IN THEIR CORRECT LOCATIONS, MAKE THE NECESSARY CORRECTIONS AT NO COST TO THE OWNER. AVOID EXCESSIVE CUTTING AND DO NOT CUT STRUCTURAL MEMBERS WITHOUT CONSENT OF ARCHITECT.

#### REGULATIONS, PERMITS & INSPECTIONS

COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

#### DUCTWORK

ALL DUCTWORK FABRICATED AS PER LATEST INTERNATIONAL MECHANICAL CODE REQUIREMENTS AND SMACNA MANUAL. EXTENSION OF EXISTING DUCTWORK SHALL BE MADE WITH SOME MATERIAL. DUCTWORK SHALL BE CONSTRUCTED OF NEW HOT-DIPPED GALVANIZED SHEET METAL ASTM A-120 FOR EACH SIDE, WITH 1", 1 1/2 LB. DENSITY DUCT LINER. TAPE ALL CROSS-JOINTS IN SHEET METAL DUCT WITH HARDCAST. TAKE-OFF FITTINGS SHALL BE CONICAL SPIN-IN WITH QUADRANT DAMPER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

#### FLEXIBLE DUCT

FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 6 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-8 INSULATION VALUE.

#### DUCT INSULATION

DUCT SIZES ON DRAWINGS ARE "CLEAR INSIDE." INCREASE SHEET METAL SIZES ACCORDINGLY FOR LINED DUCTWORK. ADHESIVE AND INSULATING MATERIALS SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. ADHESIVES SHALL BE WATERPROOF.

#### DUCT INSULATION SCHEDULE:

CONCEALED RECTANGULAR LINED  
CONCEALED ROUND LINED

#### DUCTS IN CONDITIONED SPACE OR UNCONDITIONED SPACE

SEPARATED FROM BUILDING EXTERIOR:  
RECTANGULAR LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 1 1/2" THICK, THERMAL CONDUCTIVITY AT 75° MAXIMUM 0.17 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 6.0.

DUCTS IN UNCONDITIONED SPACE OR EXTERIOR:  
LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 2" THICK, THERMAL CONDUCTIVITY AT 75° MAXIMUM 0.13 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 8.0.

EXTERIOR DUCT SHALL BE SEALED WATER TIGHT.

#### ACCEPTABLE MANUFACTURERS

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

EXHAUST FANS: GREENHECK, LOREN COOK, PENN VENTILATOR, GRILLES, REGISTERS, DIFFUSERS: KRUEGER, METAL-AIRE, TITUS, FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT. DUCT AND PIPE INSULATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED, PPG.

#### AIR SYSTEM BALANCING

AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE: THE CONTRACTOR SHALL INCLUDE IN HIS BID THE BALANCING AND TESTING OF HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS TO BALANCE, ADJUST AND TEST AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED. PROVIDE CERTIFIED REPORT.

#### INSTRUCTIONS/O&M MANUAL

THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL INSTALLED HVAC EQUIPMENT. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE: CONTROL AND/OR INTERLOCK WIRING DIAGRAMS, SEQUENCE OF OPERATION, PREVENTATIVE MAINTENANCE ITEMS, AND A PARTS LIST WITH THE NOMENCLATURE, MAINTENANCE SCHEDULE, AND NAME, ADDRESS AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.



## EXHAUST FAN SCHEDULE

MARK	SERVES	MANUF.	MODEL	CFM	E.S.P. (in. wg)	MOTOR		DRIVE	SONES	WEIGHT LBS	REMARKS
						HP OR WATTS	V/PH				
1	TOILET	GREENHECK	SP-B70	50	0.25	45 WATTS	120/1	DIRECT	2.0	9	① ③
2	DISHWASHING	GREENHECK	SP-B110	100	0.25	80 WATTS	120/1	DIRECT	2.0	10	② ③
3	KITCHEN	GREENHECK	SP-A390	305	0.25	135 WATTS	120/1	DIRECT	4.5	24	② ④ ⑤

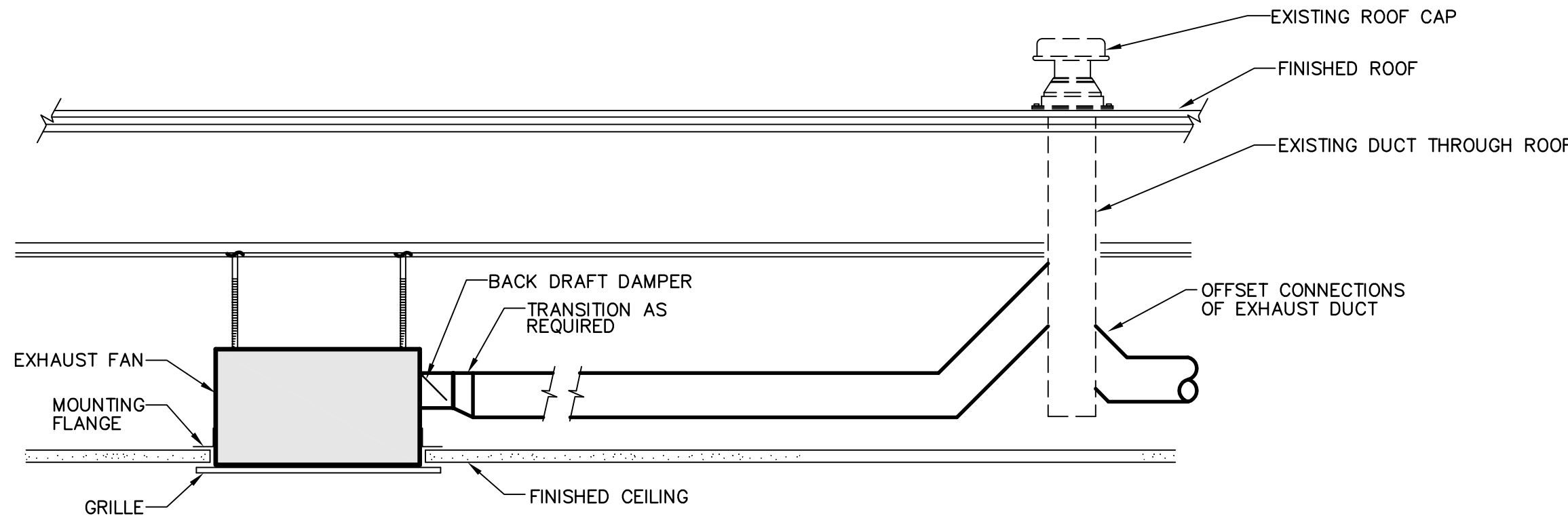
- UNIT TO OPERATE WITH LIGHTS.
- UNIT TO OPERATE VIA WALL SWITCH.
- EXTEND AND CONNECT TO EXISTING DISCHARGE CAP.
- PPROVIDE WITH NEW WALL DISCHARGE GREENHECK #WC-8
- PROVIDE WITH OPTIONAL STAINLESS STEEL GRILLE.

## GRILLES/REGISTERS/DIFFUSERS SCHEDULE

MARK	DESCRIPTION	MODULE SIZE	TYPE	OBD	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
CD-1	SUPPLY DIFFUSER	24" x 24"	SQUARE CEILING	NO	T-BAR	STEEL	WHITE	TITUS	TMS	8"ø NECK
CD-2	SUPPLY DIFFUSER	24" x 24"	SQUARE CEILING	NO	T-BAR	STEEL	WHITE	TITUS	TMS	10"ø NECK
CD-3	SUPPLY DIFFUSER	9" x 9"	SQUARE CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	6"ø NECK
RG-1	RETURN GRILLE	22" x 22"	SINGLE DFLT.	NO	T-BAR	STEEL	WHITE	TITUS	350RLF	HINGED FILTER GRILLE, 16 NECK

### NOTES:

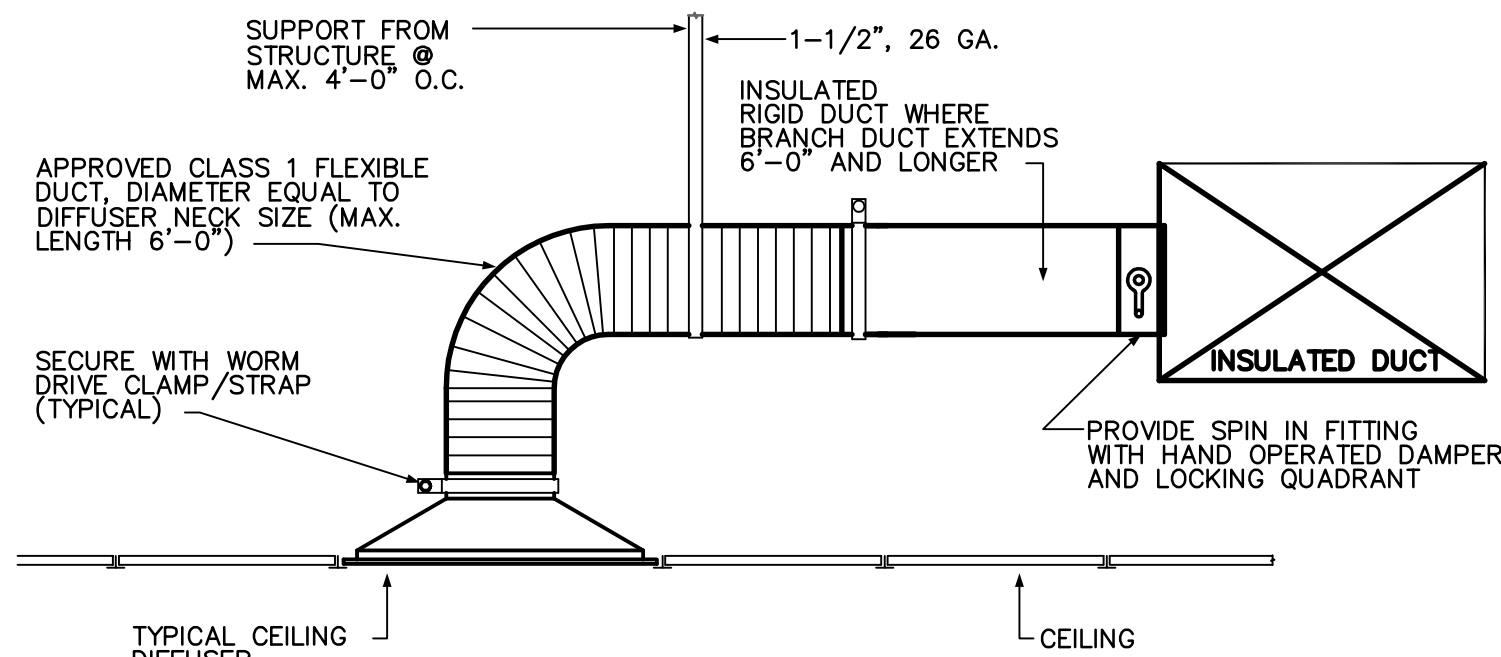
- NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE.
- CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION.
- MOUNTING HEIGHT OF GRILLES AND EXACT LOCATION OF ALL DIFFUSERS TO FIELD COORDINATED AND APPROVED BY OWNER.
- VERIFY MAKE, MODEL AND COLOR OF ALL DEVICES WITH OWNER.



## CEILING EXHAUST FAN DETAIL

NOT TO SCALE

1  
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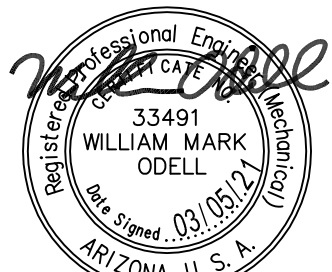
## BRANCH DUCT TAKE-OFF DETAIL

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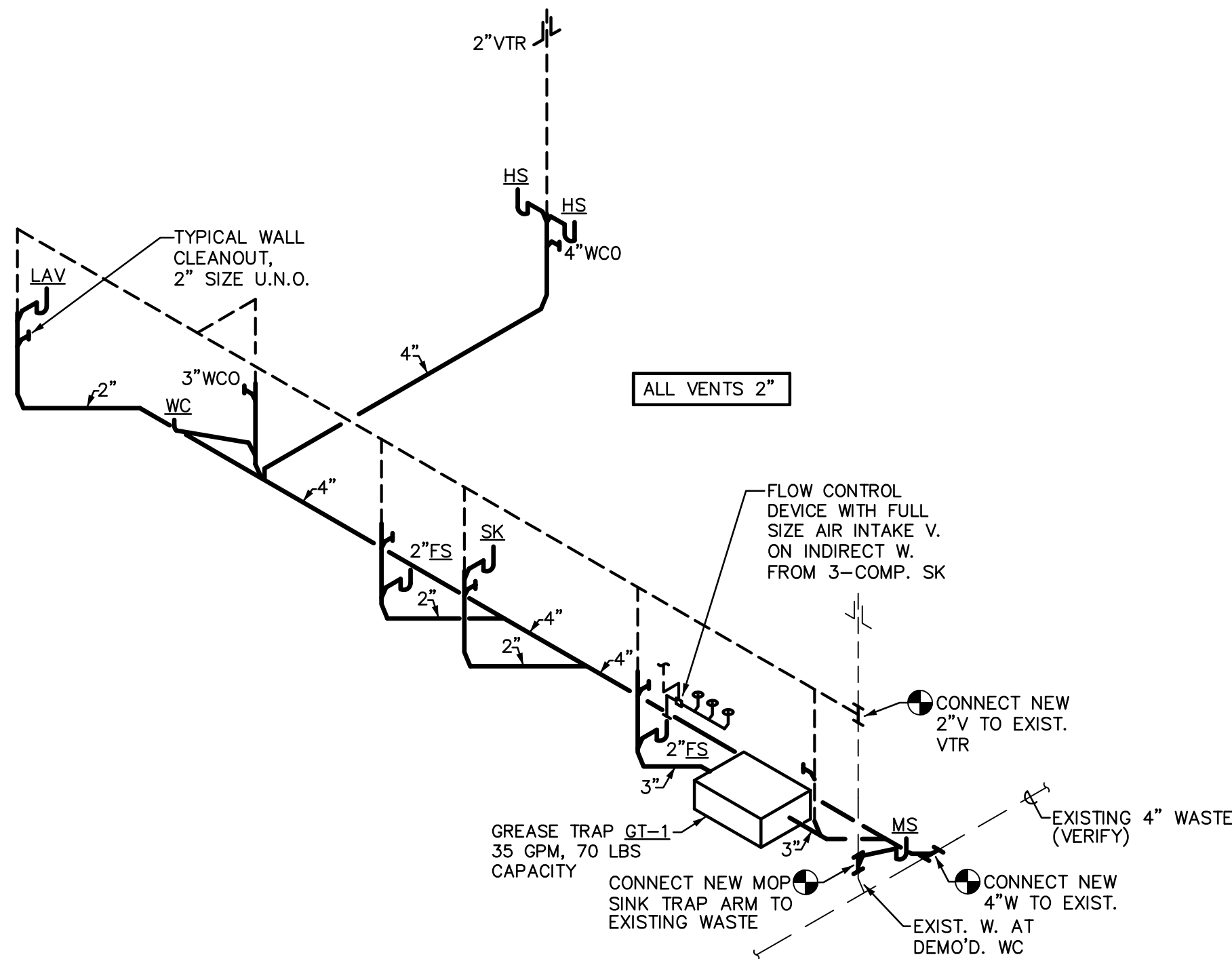
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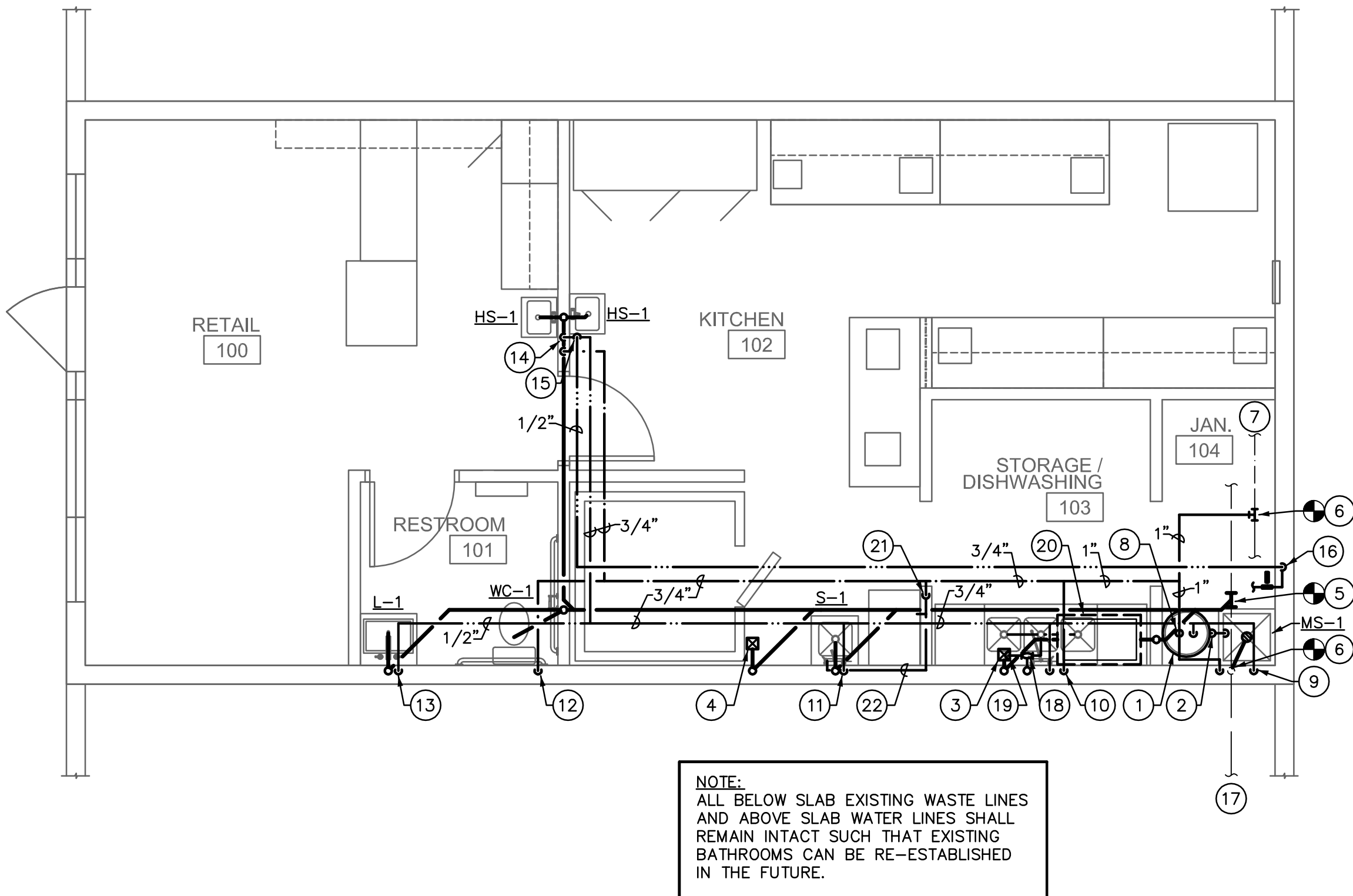


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WASTE AND VENT SCHEMATIC  
NTS



**Plumbing Floor Plan**

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



PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.
2. DETERMINE EXACT LOCATION & MOUNTING HEIGHT OF PLUMBING FIXTURES FROM ARCHITECTURAL DRAWINGS.
3. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
4. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS & INCLUDE IN HIS BID AN AMOUNT TO FURNISH & INSTALL ANY FIXTURES SHOWN IN ADDITION TO PLUMBING DRAWINGS.
5. PROVIDE VACUUM BREAKERS ON HOSE BIBBS & ALL HOSE END FITTINGS.
6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. VERIFY INVERT ELEVATIONS (WASTE LINES), SIZES, & LOCATIONS OF ALL EXISTING GAS, WATER & WASTE LINES TO WHICH NEW PIPING CONNECTS PRIOR TO MAKING-UP OR INSTALLATION OF PIPING.
8. LOCATE ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER EQUIPMENT REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENTS, INSPECTION, REMOVAL OR REPLACEMENT SO AS TO BE ACCESSIBLE WITH REFERENCE TO THE FINISHED BUILDING.
9. ROUGH-IN ALL WATER & WASTE PIPING TO SPECIAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' SHOP DRAWINGS. VALVE ALL SUPPLIES AND MAKE FINAL CONNECTIONS.
10. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF DISSIMILAR METALS.
11. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH ROOF.
12. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

KITCHEN GENERAL NOTES:

1. COORDINATE EXACT LOCATIONS OF ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIP. PLANS. COORDINATE EXACT EQUIPMENT PIPING CONNECTION SIZES, LOCATIONS, AND CONNECTION HEIGHTS FROM FINISHED FLOOR WITH EQUIPMENT MANUFACTURER'S CUT SHEETS.
2. COORDINATE EXACT LOCATIONS OF FLOOR SINKS WITH OWNER & ARCHITECT.
3. ALL FLOOR SINKS HAVE HALF GRATE UNLESS NOTED OTHERWISE.
4. PROVIDE CHROME PLATED STOP VALVES AT EACH REQUIRED EQUIPMENT WATER CONNECTION. PROVIDE BUTTERFLY VALVE AT EACH REQUIRED EQUIPMENT GAS CONNECTION. PROVIDE CHROME PLATED P TRAP, TAILPIECE AND ESCUTCHEON AT EACH REQUIRED EQUIPMENT DIRECT WASTE CONNECTION. FOR EACH REQUIRED EQUIP. INDIRECT WASTE PIPING CONNECTION, ROUTE INDIRECT WASTE PIPING FROM EQUIPMENT TO NEAREST FLOOR SINK. INDIRECT WASTE PIPING: COPPER TYPE "DW" WITH SOLDERED END DRAINAGE FITTINGS.
5. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL WORK REQUIRED (INDIRECT WASTE PIPING, ETC.)
6. PROVIDE INSULATION OR HEAT TRACE PER MANUFACTURER'S RECOMMENDATIONS, FOR CONDENSATE DRAIN PIPING LOCATED IN AREAS SUBJECT TO FREEZING TEMPERATURES (WALK-IN COOLERS, FREEZERS).

PLUMBING NOTE:

ALL PLUMBING FIXTURES SHALL BE OF A LOW-FLOW DESIGN WHICH LIMITS THE WATER FLOW NOT TO EXCEED THE FOLLOWING:  
  
WATER CLOSETS: 1.6 GALLONS PER FLUSH  
LAV FAUCETS: .5 GALLONS PER MINUTE

PLUMBING LEGEND		
SYMBOL	ABBR.	DESCRIPTION
—W—	W	WASTE PIPING
—GW—	GW	GREASE WASTE PIPING
—V—	V	VENT PIPING
—CW—	CW	COLD WATER PIPING
—HW—	HW	HOT WATER PIPING
—HWR—	HWR	HOT WATER RETURN PIPING
—BV—	BV	BALL VALVE
—FCO, SCO—	FCO, SCO	FLOOR OR SURFACE CLEANOUT
—WCO—	WCO	WALL CLEANOUT
—VTR—	VTR	VENT THRU ROOF
—HB—	HB	HOSE BIBB
—FS—	FS	FLOOR SINK

NOTE:  
SLOPE ALL HORIZONTAL WASTE PIPING AS FOLLOWS:  
  
FOR PIPE SIZES UP THROUGH 3",  
SLOPE AT 1/4" PER FT.  
  
FOR PIPE SIZES 4" & ABOVE,  
SLOPE AT 1/8" PER FT.

NOTE:  
LOCATIONS AND SIZES FOR ALL ITEMS ARE BASED ON THE BEST INFORMATION AVAILABLE. SOME ITEMS SHOWN ARE TO INDICATE THE INTENT OF THE PLUMBING SYSTEMS BUT MAY NOT NECESSARILY REFLECT THE EXACT ROUTING AND LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS AND SIZES OF THOSE ITEMS REQUIRING MODIFICATIONS.



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KEYNOTES

1. ELECTRIC WATER HEATER WH-1, MOUNT SEE DETAIL, SCHEDULE, SHEET P2.0
2. FULL SIZE WATER HEATER P&T RELIEF DRAIN DOWN TO TERMINATE +2" ABOVE MOP SINK RIM WITH 90° ELBOW DOWN.
3. 2" FLOOR SINK ES WITH HALF GRATE (INDIRECT WASTE RECEPTOR FOR 3-COMP. SINK).
4. 2" FLOOR SINK ES WITH HALF GRATE (INDIRECT WASTE RECEPTOR FOR CONDENSATE DRAINAGE FROM WALK-IN BOX).
5. CONNECT NEW 4"W TO EXISTING WASTE.
6. CONNECT NEW MOP SINK TRAM ARM TO EXIST. WASTE/VENT FROM DEMOLISHED WC.
6. CONNECT NEW 1" CW TO EXISTING CW.
7. EXISTING CW MAIN - FIELD VERIFY EXACT SIZE & LOCATION.
8. 3/4" H & CW DOWN TO WATER HEATER.
9. 1/2" H & CW DOWN TO MOP SINK.
10. 1/2" H & CW DOWN TO 3-COMP. SINK.
11. 1/2" H & CW DOWN TO HAND SINK.
12. 3/4" CW DOWN TO 3/4" HEADER, WITH 1/2" TO WC & 1/2" TO LAV.
13. 1/2" HW DOWN TO LAV.
14. 3/4" H & CW DOWN TO 3/4" HEADERS WITH 1/2" H & CW TO EACH HAND SINK.
15. 1/2" HWR OFF TOP OF HW LINE, ROUTE BACK TO RECIRC. PUMP AT WATER HEATER.
16. 1/2" HWR DOWN TO RECIRC. PUMP, SEE WATER HEATER DETAIL FOR PUMP SPEC. & CONTINUATION OF HWR LINE.
17. EXISTING BUILDING SEWER- FIELD VERIFY EXACT SIZE, LOCATION, INVERT & FLOW DIRECTION.
18. FLOW CONTROL DEVICE FOR GREASE TRAP INSTALLED ON INDIRECT WASTE FROM 3-COMP. SINK. PROVIDE FULL SIZE FLOW CONTROL VENT ROUTED OVER TO WALL.
19. INDIRECT WASTE FROM 3-COMP. SINK ROUTED TO TERMINATE +2" ABOVE FLOOR SINK RIM WITH 90° ELBOW DOWN.
20. GREASE TRAP GT-1 - 35 GPM FLOW RATE, 70 LBS CAPACITY. INSTALL BELOW GRADE WITH TOP FLUSH WITH FIN. GRADE.
21. 1/2" CW DOWN TO VALVED CONNECTION TO ICE MAKER. MAKE CONNECTION TO ICEMAKER THROUGH WATER FILTER & BACKFLOW PREVENTER BP-1.
22. TEE OFF OF 1/2" FILTERED WATER, AFTER FILTER & PRIOR TO BACKFLOW PREVENTER, WITH 1/2" FILTERED WATER, EXTEND TO SINK S-1 COLD WATER INLET.

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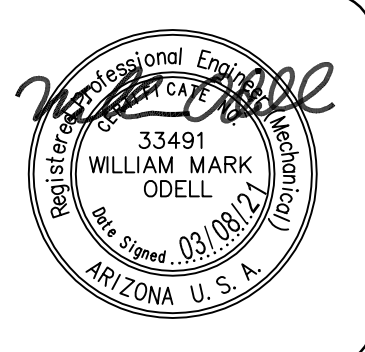
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### 3..4 Electrical: Wiring by Electrical Contractor.

**NOTES:**  
 (1) REFER TO KITCHEN EQUIPMENT CUT SHEETS FOR KITCHEN EQUIPMENT PIPING CONNECTION SIZES.

## NO SCALE



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ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

- FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG
- NIGHT LIGHT- NOT SWITCHED OR EMERGENCY
- FLUORESCENT STRIP FIXTURE.
- CEILING OR WALLMOUNTED FIXTURE.
- PORCELAIN PULL CHAIN FIXTURE
- JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION.
- SINGLE FACE EXIT SIGN- NOT SWITCHED
- DOUBLE FACED EXIT SIGN- NOT SWITCHED.
- TWO HEAD EMERGENCY LIGHT WITH BATTERY.
- S SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)
- S<sub>3</sub> THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)
- S<sub>4</sub> 4-WAY SWITCH +48" AFF (20A-120/277V)
- S<sub>P</sub> SWITCH AND PILOT LIGHT (20A-120-/277V)
- S<sub>K</sub> SINGLE POLE SWITCH, KEY OPERATED (20A)
- WALL OR CEILING MOUNTED MOTION SENSOR MANUFACTURE BY LAVITON
- DIMMER CONTROL, + 48" A.F.F. TYPE, RATING AS NOTED
- DUPLEX RECEPTACLE, + 18" A.F.F. (20A)
- DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)
- FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)
- HALF SWITCHED DUPLEX RECEPTACLE (20A)
- SPECIAL RECEPTACLE - SIZE & TYPE AS NOTED
- POWER / PHONE / DATA FLUSH FLOOR OUTLET
- TELEPHONE OUTLET PLASTER RING AT + 18" A.F.F. HUBBELL #P12 COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- TELE/DATA COMBO OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- CABLE TELEVISION (CATV) OUTLET PLASTER RING AT + 18" A.F.F. U.N.O. HUBBELL COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- TELEPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1"C MIN UNO)
- CLOSED CIRCUIT TV (CCTV) OUTLET SAME AS CATV OUTLET
- REMOTE CONTROL STATION @ +48" AFF
- DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURERS RECOMMENDATION. OUTSIDE NEMA 3R - N.F. = NON-FUSED.
- COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH SIZE AS NOTED
- EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
- MOTOR
- SM THERMAL PROTECTED SWITCH
- MOTOR STARTER - SHADING INDICATES F.B.O.
- DISTRIBUTION PANELBOARD.
- BRANCH CIRCUIT PANELBOARD.
- CONDUIT BELOW FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR ABOVE CEILING
- HOMERUN TO PANEL
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB-OUT, MARK AND CAP AS DIRECTED
- GROUND WIRE (SIZE AS NOTED) EXTENDED AND CONNECTED TO APP'D GROUND

SPECIFICATIONS

1.

PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
2.

THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
3.

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
4.

PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
5.

GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
6.

BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12.
7.

ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
8.

PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT
9.

ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.I. APPROVED AND COMMERCIAL GRADE.
10.

WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
11.

ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
12.

PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

GENERAL ELECTRICAL DEMOLITION NOTES

1.

RETURN REMOVED MATERIAL DEEMED SALVAGEABLE TO OWNER'S REPRESENTATIVE. MATERIALS DEEMED NOT SALVAGEABLE SHALL BE REMOVED FROM THE PREMISES.
2.

THE CONTRACTOR WILL EXAMINE THE PREMISES AND SATISFIED HIMSELF AS TO EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO PERFORM HIS WORK. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL FIELD VERIFY ALL DETAILS OF DEMOLITION.
3.

REMOVE ALL EXISTING WIRING DEVICES, LIGHT FIXTURES, WIRE, CONDUIT, DISCONNECTS, ETC., AS NOTED OR INDICATED WITHIN DEMOLITION AREA. (ALL ITEMS MAY NOT BE SHOWN.) REWORK AS NECESSARY ALL CIRCUITING WHICH REQUIRES CONTINUATION THROUGH THE AREA.
4.

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO REMOVE/RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT SUCH THAT ELECTRIC SHOCK HAZARDS TO WORKMEN ARE ELIMINATED DURING DEMOLITION AND NEW CONSTRUCTION.
5.

REMOVED OR DAMAGED CONDUIT, WIRE AND FITTINGS SHALL NOT BE RE-USED
6.

WORK REQUIRED FOR EXISTING EQUIPMENT NOTED AS "EXISTING TO BE REMOVED" SHALL INCLUDE:

A.

SALVAGING OR DISPOSING OF ALL MATERIAL OR EQUIPMENT AS DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE.

B.

REMOVAL OF FEEDER OR CABLING FROM EQUIPMENT TO POINT OF FEED.

C.

REMOVAL OR RE-CIRCUITING (AS REQUIRED OR AS NOTED ON PANELS) OF ALL BRANCH CIRCUITING.

D.

REMOVAL OF ALL FITTINGS, SUPPORTS, BRACKETS, ETC.

E.

REPAIR AND PATCHING OF WALLS, FLOORS AND CEILINGS TO MATCH EXISTING OR PER ARCHITECT'S INSTRUCTIONS.

F.

CAPPING OF IN-SLAB FEEDER CONDUITS FLUSH WITH THE FINISHED FLOOR.

G.

CAPPING OF FEEDER CIRCUITS AT 6" ABOVE OR BELOW THE FLOOR OR CEILING FOR IN-SLAB CONDUITS LOCATED UP NEXT TO A WALL OR FOR CEILING AREA CONDUITS.

H.

THE OPPOSITE END LOCATION OF ALL EMPTY FEEDER CONDUITS AT SWITCHBOARDS, PANELBOARDS, ETC., SHALL BE MARKED USING AN ENGRAVED BRASS TAG ATTACHED TO THE CONDUIT.

I.

EXISTING FEEDER CONDUITS SHALL BE REMOVED OR CUT OFF AND ABANDONED IF FOUND TO BE UNSALVAGEABLE BY THE OWNER, ARCHITECT OR ENGINEER.
7.

EXISTING EQUIPMENT NOT IMPLICITLY SHOWN ON THE DRAWINGS IS INTENDED TO BE "EXISTING TO REMAIN," UNLESS NOTED OTHERWISE.

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

SWITCHES	+48" (MAX)
RECEPTACLES	+18" (MIN)
TELEPHONE/DATA	+18" (MIN)
SIDE REACH	+54" (MAX)

FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAIL THAT CONFORM TO UNDERWRITERS LABORATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR ( 1/2" OF OUTLET )
A.F.G.	ABOVE FINISHED GRADE ( 1/2" OF OUTLET )
E.C.	EMPTY CONDUIT
G.F.I.	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
UNO	UNLESS OTHERWISE NOTED
NL	NIGHT LIGHT
TYP	TYPICAL
EDF	ELECTRIC DRINKING FOUNTAIN
TMB	TELEPHONE MOUNTING BOARD
TTC	TELEPHONE TERMINAL CABINET
SES	SERVICE ENTRANCE SECTION
EF	EXHAUST FAN

PANELBOARD					B		SCHEDULE				
MAINS: 200A MLD					LOAD-VA					LOCATION: SEE PLAN	
VOLTAGE: 120 / 208V, 3ø, 4W										MOUNTING: FLUSH	
TYPE: GE (EXISTING)										MIN. A.I.C. 22/10K SERIES RATED	
CIRCUIT DESCRIPTION			BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	
EXIST. LIGHTS			20	1					50		EXIST. A/C UNIT
			1						2		
EXIST. LIGHTS			20	3							
			1						4		
EXIST. TRACK LIGHTS			20	5							
			1						6		
EXIST. RECEPTACLES/SPARE			20	7					20	20	PROVIDE TWIN 20/1P SPARE BKRS.
			1						8	1	
NEW RECEPTACLES			20	9	360				20	20	EXIST. RECEPTACLES/SPARE
			1						10	1	
NEW WATER HEATER (X)			30	11				2250 1600	20	1	
4.5 KW, 208V, 1ø				13	2250 1800				12	1	INDUCTION BURNER (M)
			2						20	1	INDUCTION BURNER (M)
EXIST. TRACK LIGHTS			20	15					20	20	BLENDER/COUNTER RECEPT. ▲ (L)
			1		1380				16	1	
BEVERAGE STEAMER (K)				17				1300 1800	20	1	INDUCTION BURNER (M)
THREE DOOR REFRIGERATOR (H)				19	1104 1600				18	1	INDUCTION BURNER (M)
REFRI. DISPLAY, U.C. REFRI. (F) (J)				21	800 2500				20	1	INDUCTION BURNER (M)
INDUCTION BURNER (M)				23				1800 2500	22	30	WALK-IN FREEZER (G)
ICE MACHINE/WALK-IN FREEZER (I) (G)				25	1440 4000				24	2	(VERIFY REQUIREMENTS)
TOASTER OVEN (C)				27	750 4000				26	50	CONVECTION OVEN (A)
				29	750 4000				28		
				2				8000 30	3		
TOTAL LOAD PER PHASE		ESTIMATED EXIST. LOAD:		8500	8500	16200	HØ 8500 / 120 = 70.8		AMPS		
KITCHEN EQUIPMENT LOAD:				12394	9430	16200	HØ 24183 / 120V = 201.5		AMPS		
KITCHEN EQUIPMENT LOAD ● 65%:				8056	6129	10530	HØ 10530 / 120V = 87.8		AMPS		
PANEL "B1" TOTAL LOAD:				16556	14629	15638	HØ 16556 / 120V = 137.9		AMPS		



Mar 09, 2021 - 11:55am

JOB# 21-05

ELECTRICAL DESIGN & CADD SERVICES INC.

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PRESCOTT, AZ. 86305

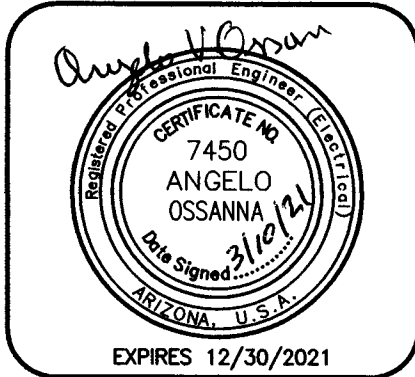
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REVISIONS	BY

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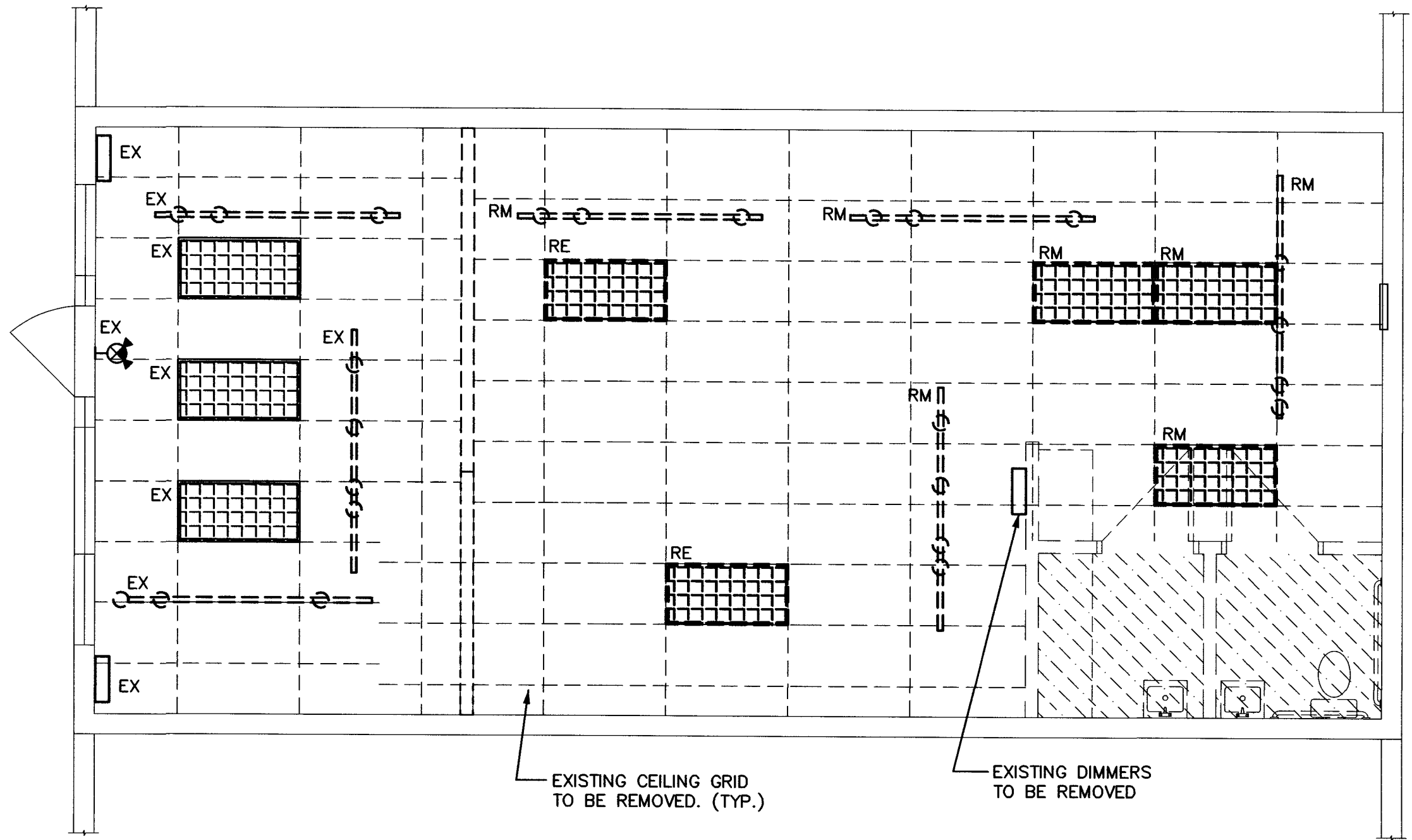
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Prescott, AZ 86304

ARCHITECTURE & PLANNING

ABBREVIATIONS	
EX	EXISTING LIGHT OR DEVICE TO REMAIN
RE	EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER	REPLACED OR RELOCATED LIGHT OR DEVICE
RM	REMOVED LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR ( ¢ OF OUTLET )
A.F.G.	ABOVE FINISHED GRADE ( ¢ OF OUTLET )
E.C.	EMPTY CONDUIT
UNO	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS
NL	NIGHT LIGHT
TYP	TYPICAL

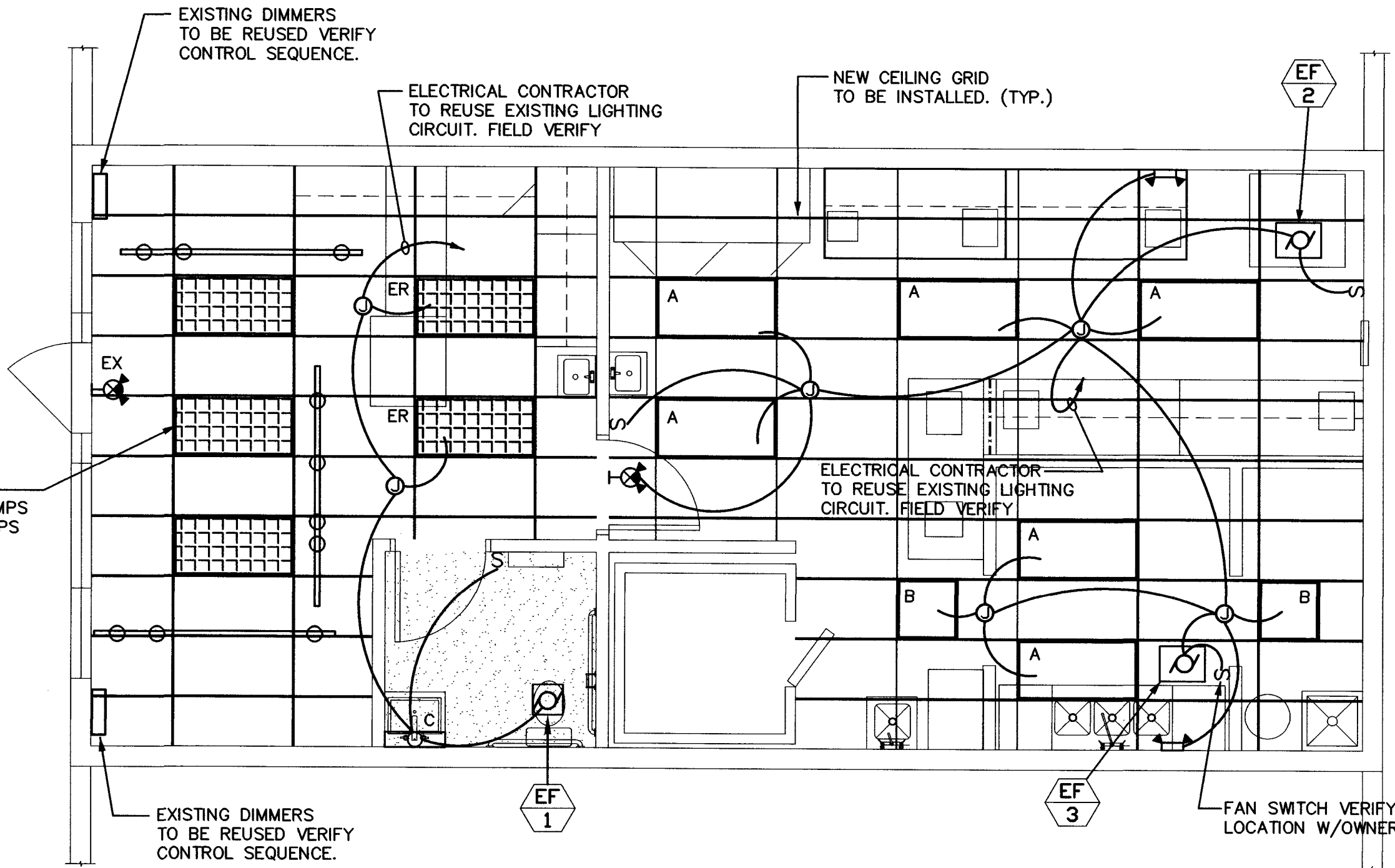


Demo Lighting Floor Plan

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






- GENERAL LIGHTING NOTES:
- IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HIEGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELCTRICAL ENG., ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
  - NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
  - ALL EXTERIOR LIGHT FIXTURES ARE EXISATING INSTALLED UNDER PREVIOUS PERMIT U.N.O.



Lighting Floor Plan

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



Interior Schedule										
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	Lithonia Lighting	2GTL 4 48L EZ1 LP840	2GTL 2X4, 4800 Nominal Lumens, Flat Linear Prismatic lens, 4000K CCT	4000K LED	1	2GTL2_33L_ADP_LP84 0.ies	4583	0.91	46
	B	Lithonia Lighting	2GTL 2 33L EZ1 LP840	2GTL 2X2, 3300 Nominal Lumens, Flat Linear Prismatic lens, 4000K CCT	4000K LED	1	2GTL2_33L_ADP_LP84 0.ies	3385	0.91	35.4
	C	DECORATIVE LIGHT FIXTURE AS SELECTED BY OWNER.								

EMERGENCY LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER AND MODEL NO.	VOLTS	LAMPS	MOUNTING	FINISH	REMARKS
	LITHONIA LHQM S W 1 R 120 N	120	LED & (2) 6W HAL FURN'D. WITH UNIT	WALL- 1'-0" ABOVE DOOR	WT. HOUSING RED LETTERS	COMBINATION EMERGENCY/EXIT LIGHT W/ NI-CAD BATTERY
	LITHONIA ELM627 H1206 N	120	(2) 12W/6V/MR24	WALL- 8'-0" A.F.F.	STANDARD WHITE	EMERGENCY LIGHT WITH NI-CAD BATTERY

DRAWING: Lighting Floor Plan

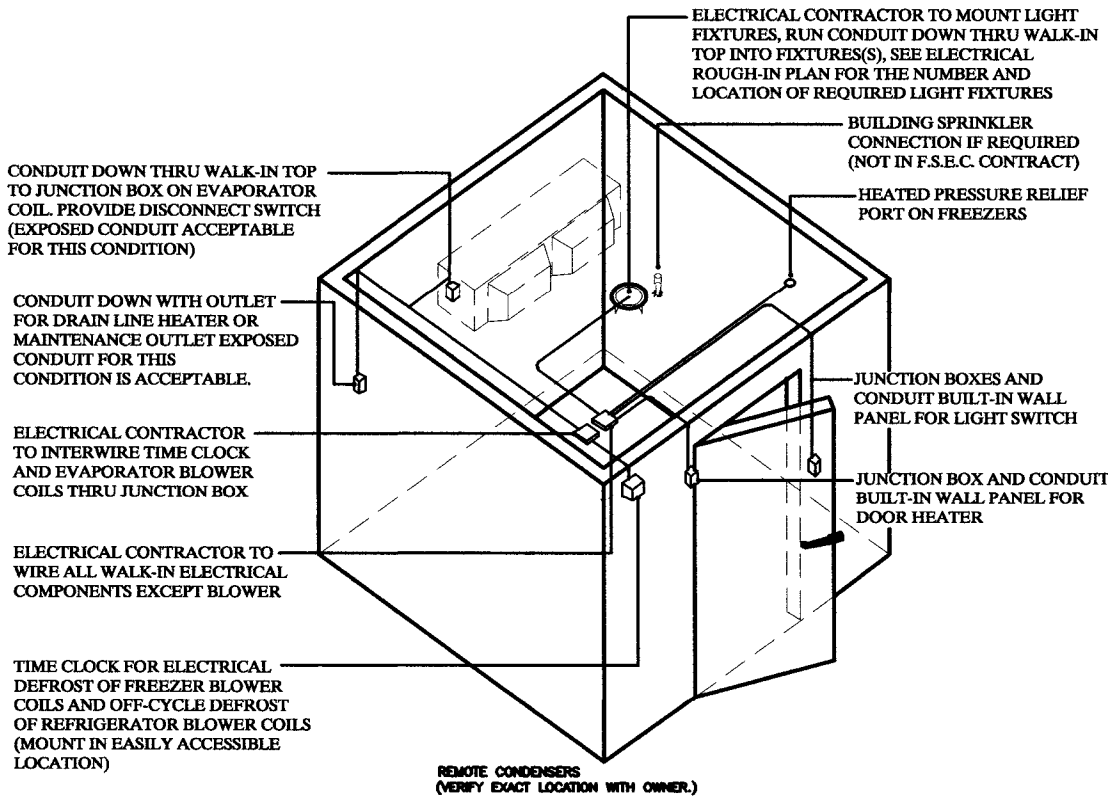
PROJECT: Crescendo Chocolates TI  
2055 W. State Rt. 89A, Suite B  
Sedona, AZ 86336  
APN: 408-24-358

DRAWN BY
CHECKED BY
DATE February 4th, 2021
JOB NO. 765
SHEET

E1.1

WALK-IN GENERAL NOTES

1. ALL INTERCONNECTING CONDUIT TO BE RUN ABOVE WALK-IN OR BUILT IN THE WALL PANELS. EXPOSED CONDUIT WILL NOT BE ACCEPTABLE EXCEPT FOR THE CONDITIONS SHOWN AND NOTED IN THE ABOVE ILLUSTRATION.
2. SEAL ALL PENETRATIONS THRU WALK-IN TOP, WALL PANELS AND INSIDE ELECTRICAL CONDUIT WITH THERMAL MASTIC.
3. PROVIDE HOLE FOR SPRINKLER HEAD (IF REQUIRED) AND AFTER INSTALLATION SEAL WITH THERMAL MASTIC.



(DETAIL PROVIDE AS REFERENCE ONLY VERIFY EXACT REQUIREMENTS WITH SPECIFIED MANUFACTURER.)

GENERAL NOTES:

ALL ELECTRICAL CONDUITS SHOULD BE CONCEALED AS MUCH AS POSSIBLE WITHIN THE WALLS, FLOOR OR STRUCTURE. WHERE CONDUIT LINES ENTER A WALL, CEILING OR FLOOR THE OPENING AROUND THE CONDUIT MUST BE TIGHTLY SEALED.

ELECTRICAL: CONTRACTOR SHALL INSPECT ELECTRICAL SERVICE DETERMINE CAPACITY AND AVAILABILITY OF SERVICE FOR EQUIPMENT. ALL WORK SHALL COMFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFORM WITH APPROVED ELECTRICAL KITCHEN EQUIPMENT SPECIFICATIONS, WIRING DIAGRAMS, INSTALLATION DETAILS, ETC..

1. PROVIDE MATCHING RECEPTACLES AND CONNECTORS IF CORD IS PROVIDED WITH EQUIPMENT. (VERIFY HEIGHTS)
2. MAKE ALL FINAL HARDWIRED CONNECTIONS TO EQUIPMENT AFTER EQUIPMENT IS INSTALLED.
3. VERIFY ALL ELECTRICAL CHARACTERISTICS AND CONDITIONS WITH THE KITCHEN EQUIPMENT SUPPLIER RECOMMENDATIONS AND CONTROL WIRING, DIAGRAMS, EQUIPMENT CONNECTIONS, MOUNTING HEIGHTS, LOCATIONS, ETC..

FOOD SERVICE RECEPTACLE  
MOUNT RECEPTACLES HORIZONTALLY  
IN FOOD SERVICE AREAS

NOTES: (NOT ALL ITEMS APPLY TO THIS PROJECT)

1. ANSUL SYSTEM PULL STATION, E.C. SHALL RUN REQUIRED CONDUIT FOR HOOD AS REQUIRED
2. WALK-IN COOLER EVAPORATOR, VERIFY POWER REQUIREMENTS PRIOR TO ROUGH-IN
3. WALK-IN COOLER CONDENSER, VERIFY POWER REQUIREMENTS PRIOR TO ROUGH-IN
4. ANSUL UTILITY POWER CABINET, VERIFY LOCATION WITH KITCHEN EQUIPMENT & HVAC CONTRACTOR.
5. HOOD LIGHTING SHALL BE WIRED THRU ANSUL PANEL AS REQUIRED

ABBREVIATIONS

- EX EXISTING LIGHT OR DEVICE TO REMAIN  
RE EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.  
ER REPLACED OR RELOCATED LIGHT OR DEVICE  
RM REMOVED LIGHT OR DEVICE  
A.F.F. ABOVE FINISHED FLOOR (  $\varnothing$  OF OUTLET )  
A.F.G. ABOVE FINISHED GRADE (  $\varnothing$  OF OUTLET )  
E.C. EMPTY CONDUIT  
UNO UNLESS OTHERWISE NOTED  
FBO FURNISHED BY OTHERS  
NL NIGHT LIGHT  
TYP TYPICAL

NOTE:

ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SITE PRIOR TO BID TO CONFIRM ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND ABANDONED.

GENERAL POWER NOTES:

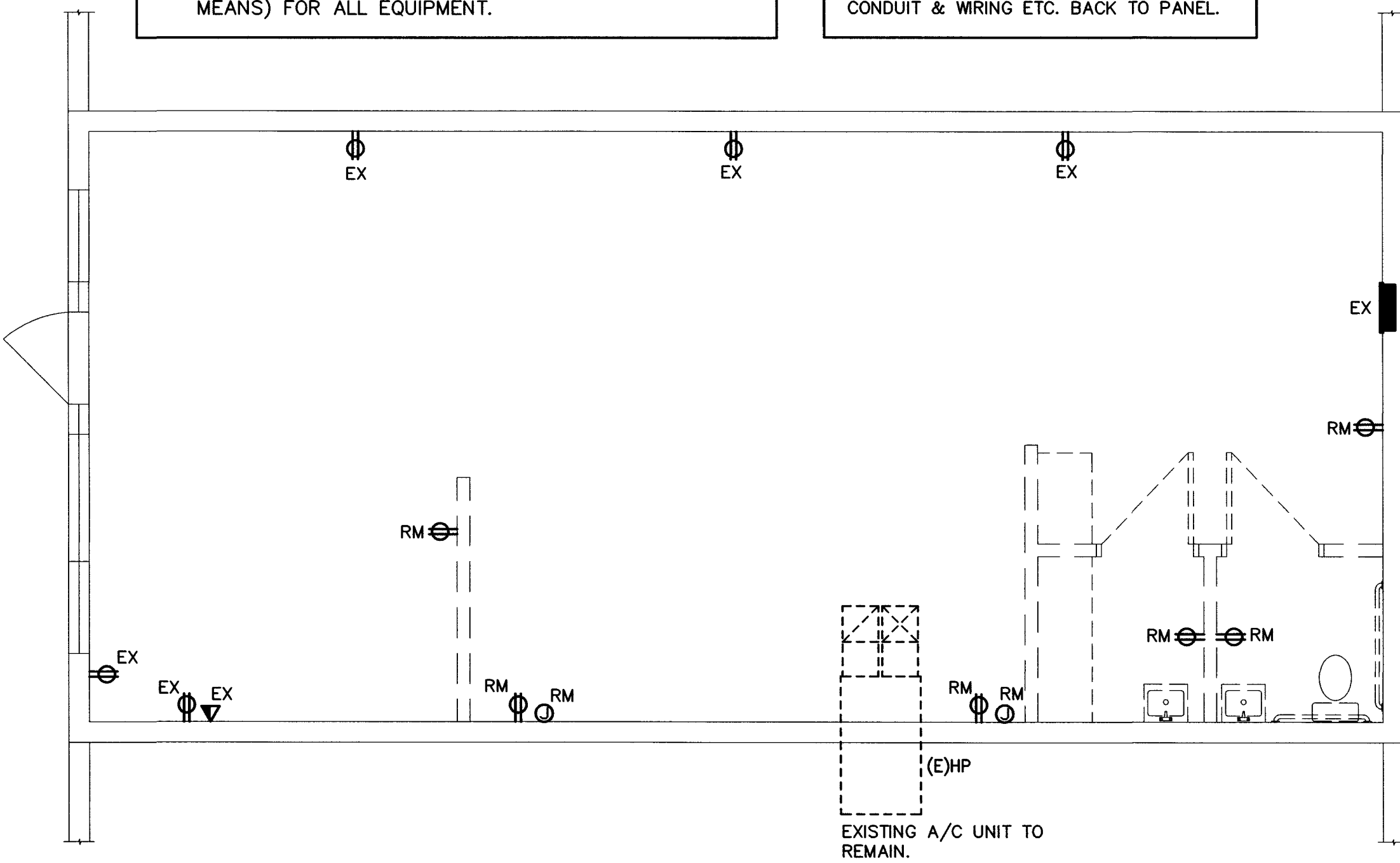
1. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE. ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J-BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J-BOX AT 44" A.F.F. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J-BOX.
3. EXTERIOR RECEPTS. TO BE WP, GFCI TYPE
4. ALL RECEPTACLES IN KITCHEN, BAR AREA AND WITH-IN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
5. EXTERIOR ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC.
6. PROVIDE SEAL-OFFS AT ALL WALK-IN PENETRATIONS
7. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH OWNER PRIOR TO ROUGH-IN.

GENERAL KITCHEN NOTES

(NOT ALL ITEMS APPLY TO THIS PROJECT)

1. ALL KITCHEN AREA, BAR AREA AND WAITER STATION AREA RECEPTACLES SHALL BE GFCI TYPE
2. PROVIDE CONDUIT SEALS AT ALL WALK-IN PENETRATIONS
3. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION REQUIREMENTS (HP, AMPS, VOLTAGE, PHASE, MOUNTING HEIGHT, AND DISCONNECTING MEANS) FOR ALL EQUIPMENT.

GENERAL NOTE:  
ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED OR UNUSED CONDUIT & WIRING ETC. BACK TO PANEL.



Demo Power Floor Plan

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



Kitchen Equipment List

LABEL	QUANTITY	EQUIPMENT NAME	MANUFACTURER	MODEL	VOLTS	AMPS	WATTS	PHASE	HP	PROVIDED BY
A	1	CONVECTION OVEN 38x30.25	SOUTHBEND	SLES10	208	34	12000	3	1/2	OWNER
B	1	18 GAUGE STAINLESS STEEL SINGLE COMPARTMENT SINK WITH FAUCET	STEELTON	ITEM # 522CS115FW	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
C	1	TOASTER OVEN	RUSSELL HOBBS	26095	220	N/A	1500	1	N/A	OWNER
D	1	3 COMPARTMENT SINK 7'-6"x2'-0" FAUCET BY OWNER	ADVANCE TABCO	FC-3-1818-18RL	N/A	N/A	N/A	N/A	N/A	OWNER
E	2	HAND SINK 20"x16"	JUST	A-544	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
F	1	60x24 REFRIGERATED DISPLAY CASE	FEDERAL	FCCR5	120	N/A	9	1	N/A	OWNER
G	1	WALK IN FREEZER 6'x6'	NOR-LAKE	KLF7866-C	208-230	N/A	N/A	1	1-1/2	OWNER
H	1	THREE DOOR REFRIGERATOR	TRUE	T-49	115	9.2	N/A	1	1/2	OWNER
I	1	ICE MACHINE	AVANTCO	UC-77-BA16"	115	6	N/A	1	N/A	OWNER
J	1	UNDER COUNTER REFRIGERATOR	BEVERAGE-AIR	UCR20HC	115	2	N/A	1	1/6	OWNER
K	1	BEVERAGE STEAMER	ASTRA	STS1300	110	20	1300	1	N/A	OWNER
L	1	BLENDER	VITA-MIX	VMO103	120	11.5	N/A	1	N/A	OWNER
M	4-5	INDUCTION BURNER	VOLLRATH	59500P	120	15	1800	1	N/A	OWNER
N	2	36x72 STAINLESS STEEL TABLE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
O	2	30x72 STAINLESS STEEL TABLE WITH SHELVES ABOVE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
P	1	30x72 STAINLESS STEEL TABLE (NO SHELVES ABOVE)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
Q	1	CLEAN DISH STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
R	1	MOP SINK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
S	1	MILLWORK - CUSTOMER COUNTERTOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
T	1	MILLWORK - DISPLAY SHELVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
U	1	MILLWORK - COUNTERTOP WITH SHELVES ABOVE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
V	1	DRY STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
W	1	GREASE TRAP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACTOR
X	1	WATER HEATER	REFER TO PLUMBING PLANS							CONTRACTOR
Y	2	6' SHELVES (STAINLESS STEEL)								OWNER

Power Floor Plan

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

