PRESCOTT, ARIZONA

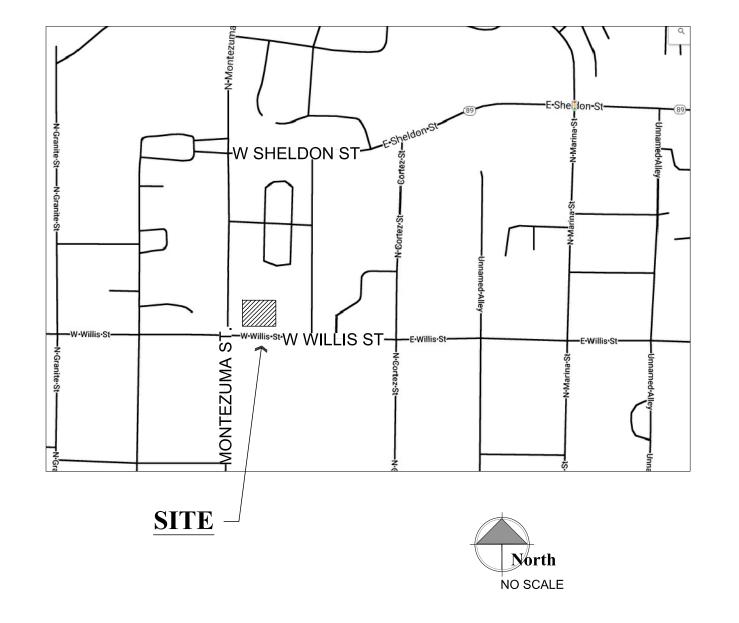
# Gerred Submittals Cinity Map

PRESCOTT REGIONAL

The following items are required and will be provided as a deferred submittal:

1. Automatic Fire Sprinkler System. 2. Fire Alarm System.

Automatic Fire Sprinkler System & Fire Alarm System submittal documents for deferred submittal shall be submitted to the local fire district, who shall review them and forward them to the building official, with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred submittal items shall "NOT" be installed until their design and submittal documents have been approved by the fire marshal having jurisdiction.



DOOR

# Roject Information Seet Index

National Bank of Arizona 6001 North 24th Street Phoenix, AZ 85016

Contact: Jason King 602-212-5420 jason.king@nbarizona.com

PREPARED BY:

CLIENT:

**JOBSITE** 

ADDRESS:

W. Alan Kenson & Assoc., P.C. Contact: Alan Kenson P.O. Box 11593 928-925-1576 Prescott, AZ 86304 WAKA@cableone.net

**CONTRACTOR:** 

To be determinmed

201 North Montezuma, Suite 101

PARCEL NUMBER:

113-15-071A

Prescott. AZ

**DTB - Downtown Business ZONING:** 

SITE USE: Business

OCCUPANCY: CONST TYPE: II-B with Automatic Sprinkler System Protection

**CURRENT CODE:** 

2018 International Building Code 2018 International Fire Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2017 National Electrical Code

2018 International Energy Conservation Code

**IMPROVEMENT AREA:** 

2.614 Square Feet (NBAZ Branch - Suite 100)

PARKING:

Parking is existing and sufficient.

#### ARCHITECTURAL

CS1 Cover Sheet CS2 Code Summary

A1.0 Existing / Demolition Plan

A2.0 Reference / Wall Types Floor Plan and Dimension Plan A3.0 Demolition and Proposed Reflected Ceiling Plans A4.0

Interior Elevations, Details and Wall Types

Enlarged plan and Interior Elevations A4.1

A5.0 Door Schedule, Materials Schedule and Room Finish Plan

A6.0 **Details** A7.0 **Specifications** A7.1 **Specifications** A7.2 **Specifications** 

Specifications

### **MECHANICAL**

Mechanical Plan Mechanical Specs

## PLUMBING

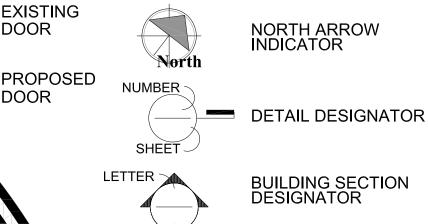
Plumbing plan P2.0 Plumbing Specs

### ELECTRICAL

Electrical Symbols, Spec's, Panel Schedule, One Line Diagram and Notes

E1.1 **Electrical Lighting Floor Plans Electrical Power Floor Plans** 

# Caphic Standards EXISTING DOOR



(#)

GRID LINE DESIGNATOR

**REVISION DESIGNATOR** 

**ELEVATION DESIGNATOR** DESCRIPTIVE NOTE DESIGNATOR

ROOM NUMBER / FINISH DESIGNATOR

DOOR NUMBER DESIGNATOR

DOOR TYPE DESIGNATOR

WINDOW TYPE DESIGNATOR

WALL TYPE DESIGNATOR

# **Project Description**

National Bank, Prescott intends to downsize their existing suite from 7,075 S.F. to approximately 2,614 S.F. Only the 2,614 S.F. will be included in this project. There will be 3 new offices added along with modifications to the entrance into the suite, adding a vestibule. The existing Cash room, ATM room, Vault and Viewing rooms will remain without changes. The ceiling, electric and HVAC will be revised to accommodate the new layout. The HVAC system is an existing system that will be modified. No additional VAV distribution boxes are anticipated. New plumbing is required at new restroom and breakroom. New and existing power and lighting will be utilized. No additional electrical panels will be required.

# **Architect:**

# W. Alan Kenson & Associates, P.C.

P 928-443-5812 F 928-443-5815

P.O. Box 11593 Prescott, AZ 86304

email: waka@cableone.net www.kenson-associates.com

ARCHITECTURE & PLANNING



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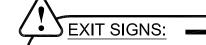
REVISIONS

W. Alan Kenson & Associates, P.C

L.O. CHECKED BY W.A.K. October 25th, 2021

JOB NO. **771** SHEET

<b>P</b> umbing Calculations											
OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK						
BUSINESS	12	.48	.3	1	1						
TOTAL REQUIRED		1	1	1	1						
TOTAL PROVIDED		1 NEW 6 EXISTING	1 NEW 4 EXISTING	1 EXISTING	1 EXISTING						



• 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.

72"

....

BUSINESS

(1:150 GROSS)

229 S.F. /150 = 1.5

BUSINESS (1:150 GROSS) 244 S.F. /150 = 1.6

BUSINESS (1:150 GROSS)

594 S.F. /150 = 4

**BUSINESS** 

(1:150 GROSS)

228 S.F. /150 = 1.5

# Ocupant load

(1 150 GROSS)

287 S.F. /150 = 1.9

(1:150 GROSS) 203 S.F. /150 = 1.4

**F** = = = = **(** = = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** = = = **(** =

GROSS SQUARE FOOTAGE LISTED BELOW DOES NOT INCLUDE ACCESSORY AREAS.

**BUSINESS AREA** 

1,785 SQ. FT. 12 OCCUPANTS

Deress Legend:

EXIT ACCESS

ACCESSORY USE (NO OCCUPANCY)

XX

ROOM OCCUPANCY LOAD

(xx)SUBTOTAL OCCUPANCY LOAD

**OCCUPANCY TOTAL** REQUIRED EXIT WIDTH (FACTOR = 0.15)

XX XX XX PROVIDED EXIT WIDTH

WORST CASE TRAVEL DISTANCE TO COMMON PATH OF EGRESS TRAVEL

**FUNCTION OF SPACE** 

**OCCUPANT LOAD FACTOR** 

**BUSINESS** 

150 GROSS

- ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY
- 3. WALKING SURFACES GREATER THAN 2% SHALL BE SLIP
- 4. PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE
- 5. WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF
- 7. RAMPS SHALL BE A MINIMUM OF 36" WIDE.
- 8. 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.

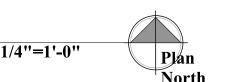
ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)

Accessibility Notes

- ENTRANCES.
- 2. THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
- RESISTANT.
- DIRECTION OF TRAVEL.
- A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
- 6. RAMPS SHALL HAVE A NON-SLIP SURFACE.
- 9. 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.
- 10. MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5
- 11. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
- 12. PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL

Occupancy / Egress Floor Plan

5



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**REVISIONS** 

11/17/2021

City of Prescott Comments
11/17/2021 LO

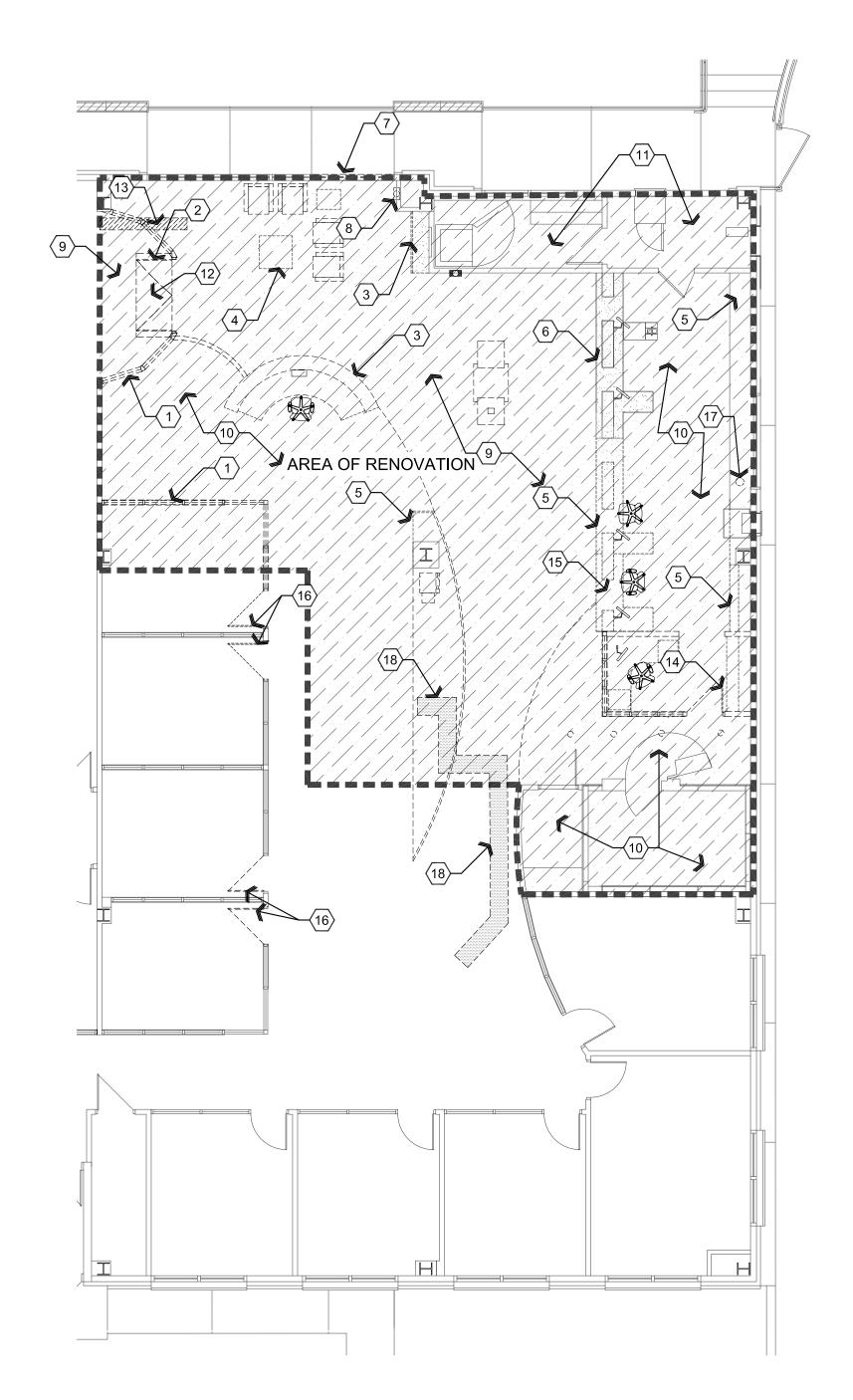
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JOB NO. **771** 









1. REMOVE EXISTING WALL / STOREFRONT.

2. REMOVE EXISTING DOOR.

3. REMOVE EXISTING MILLWORK.

4. EXISTING FURNITURE TO BE REMOVED BY OWNER. 5. REMOVE PORTION OF EXISTING MILLWORK, REFER TO

INTERIOR ELEVATIONS. 6. EXISTING PORTION OF MILLWORK TO REMAIN AND BE REPAIRED WHERE PORTION WAS REMOVED, REFER TO

INTERIOR ELEVATIONS. 7. REMOVE PORTION OF EXISTING STOREFRONT TO BE

REPLACED WITH AUTOMATIC BI-PARTING DOORS. 8. REMOVE AND RELOCATE EXISTING SEMI-RECESSED FIRE

EXTINGUISHER, REFER TO REFERENCE FLOOR PLAN.

9. REMOVE EXISTING CERAMIC TILE.

10. REMOVE EXISTING CARPET.

11. EXISTING VINYL COMPOSITION FLOOR TILE TO REMAIN. 12. REMOVE RECESSED FLOOR MAT.

13. SAWCUT CONCRETE FLOOR TO INSTALL ELECTRICAL CONDUITS TO FLOOR OUTLETS, REFER TO ELECTRICAL PLANS.

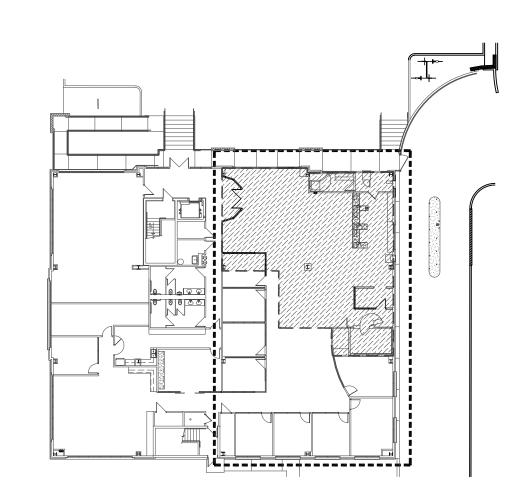
14. REMOVE AND RELOCATE GATE.

15. REMOVE AND RELOCATE PART OF EXISTING MILLWORK (ADA PORTION)

16. RELOCATE EXISTING DOOR TO NEW LOCATION, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.

17. REMOVE AND FACILITATE THE RELOCATION OF OVERHEAD PNEUMATIC TUBING TO CITY OF PRESCOTT SUITE FOR UTILITY PAYMENTS FROM THE NO. 2 DRIVE-THROUGH LANE.

18. SAWCUT AND REMOVE TILE / CONCRETE AND EXCAVATE FOR PLUMBING, REFER TO PLUMBING PLANS.





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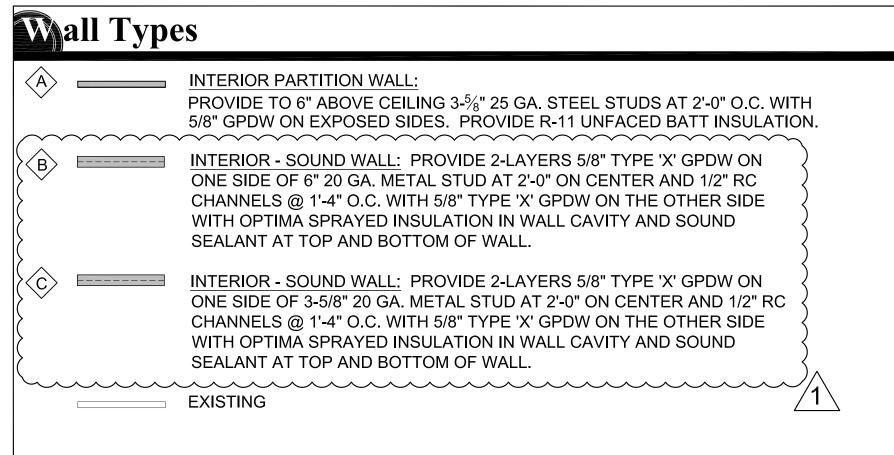
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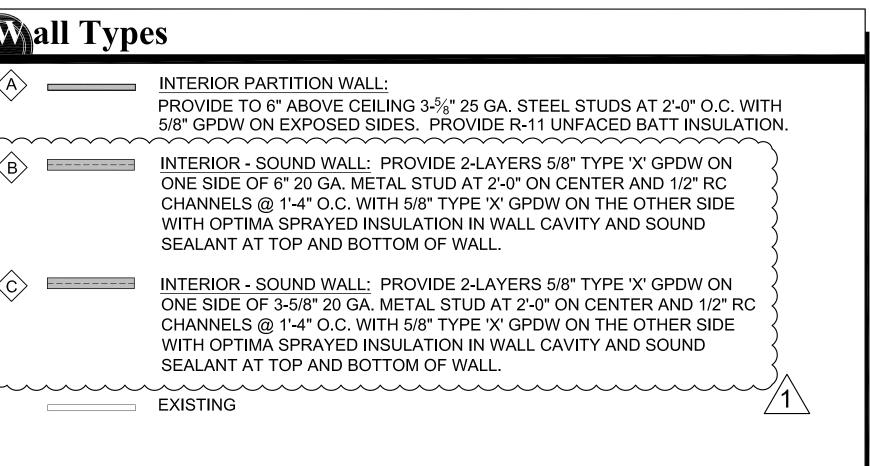
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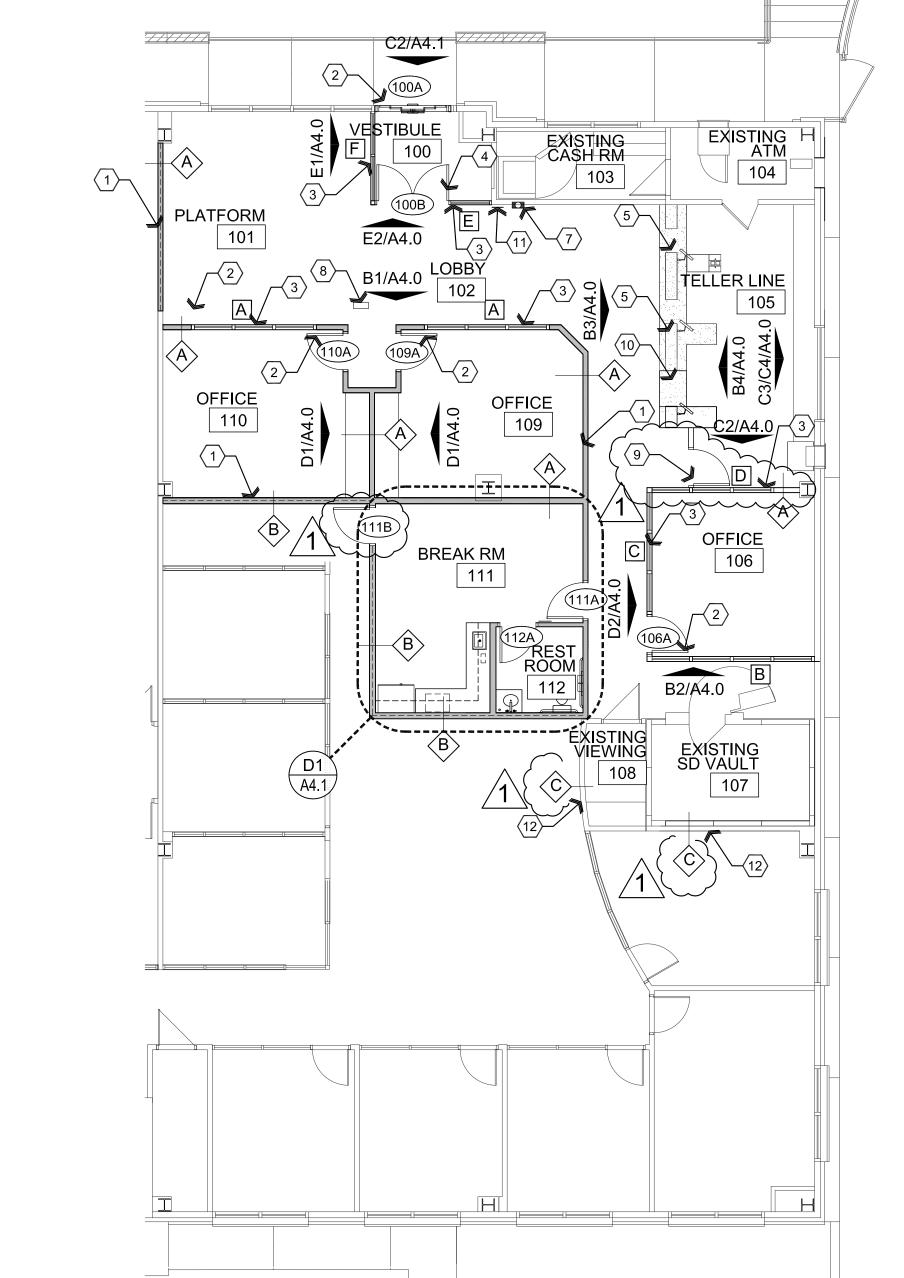
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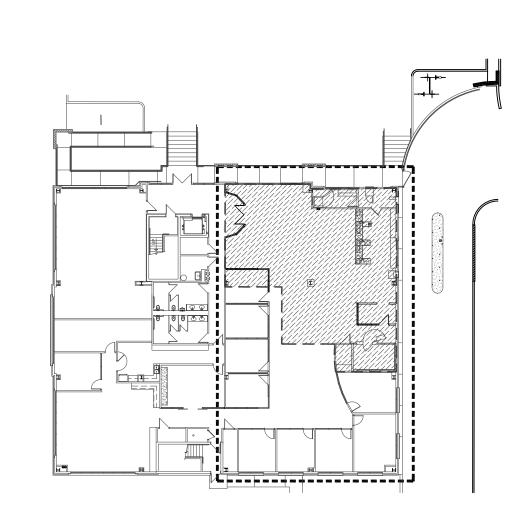
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JOB NO. **771** 









Discriptive Keynotes  $\bigcirc$ 

EXTINGUISHER.

FLOOR ABOVE.

1. PROVIDE WALL, REFER TO WALL TYPES.

2. PROVIDE DOOR, REFER TO DOOR SCHEDULE.

5. EXISTING PORTION OF MILLWORK TO REMAIN.

6. PROVIDE LOWER CABINETS AND COUNTERTOP.

8. PATCH FLOOR WHERE OUTLET WAS REMOVED.

11. PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS

10. RELOCATED PORTION OF ADA MILLWORK.

TO THE CENTER OF THE SIGN.

3. PROVIDE STOREFRONT WINDOW, REFER TO WINDOW TYPES.

4. PROVIDE STOREFRONT DOOR, REFER TO DOOR SCHEDULE.

7. NEW LOCATION FOR RELOCATED SEMI-RECESSED FIRE

9. RELOCATED GATE, REFER TO INTERIOR ELEVATIONS.

MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR

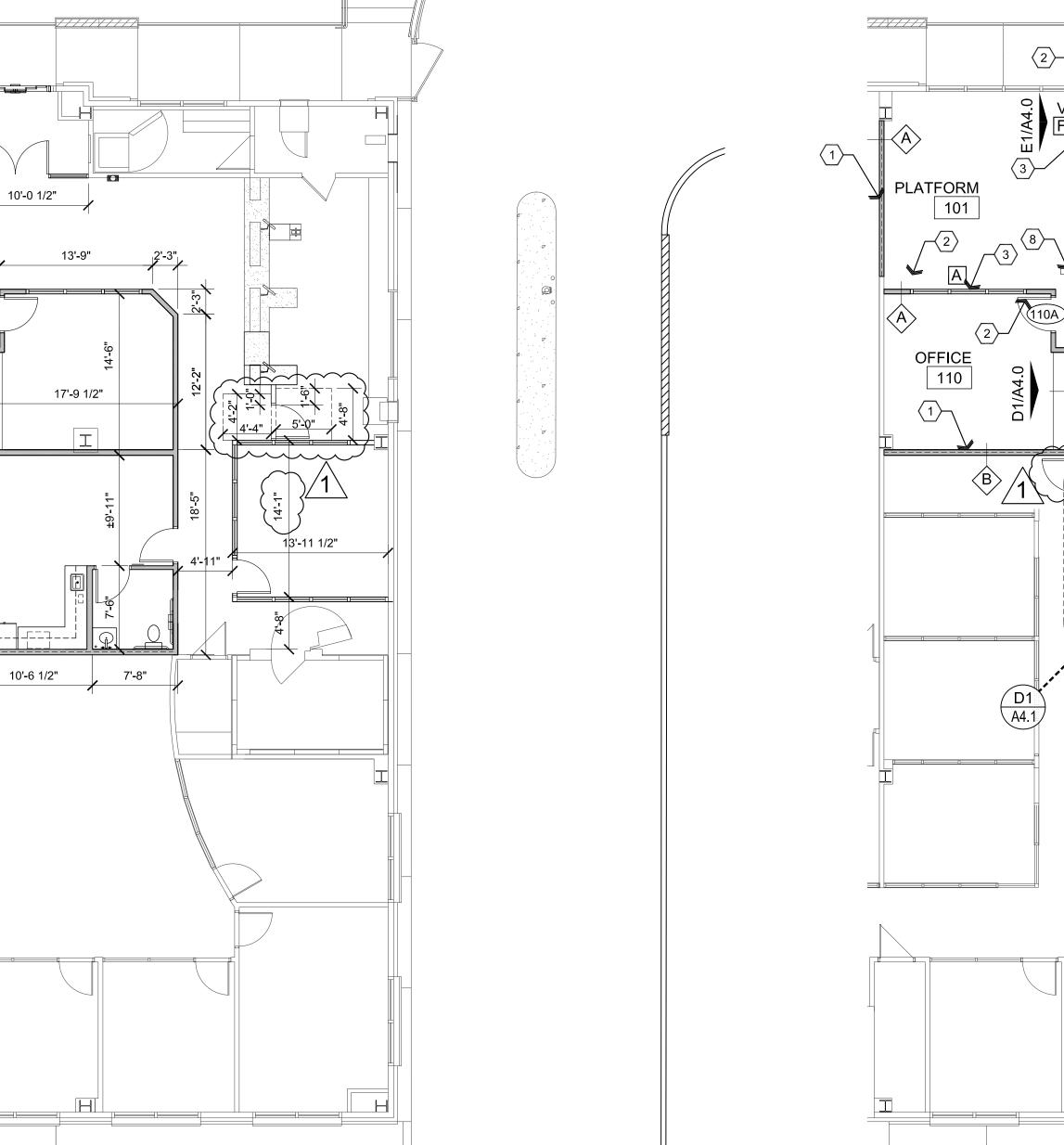
ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND

THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F.

12. EXTEND INTERIOR SOUND WALL UP TO THE BOTTOM OF THE

EQUAL COMPLYING WITH ICCA117.1 AND IBC 1011.3







17'-7 1/2"



Reference / Wall Types Floor Plan
Scale: 1/8"=1'-0"



REVISIONS City of Prescott Comments

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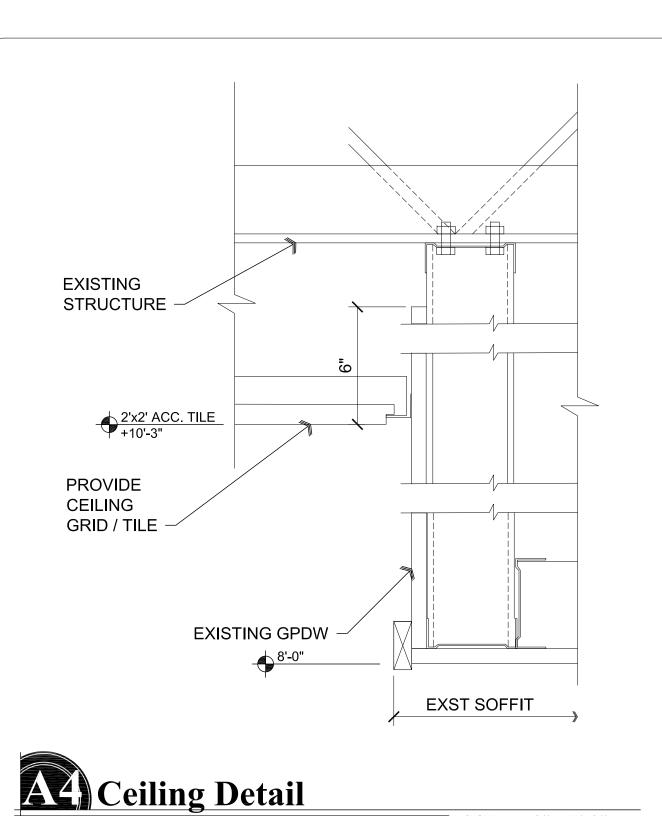
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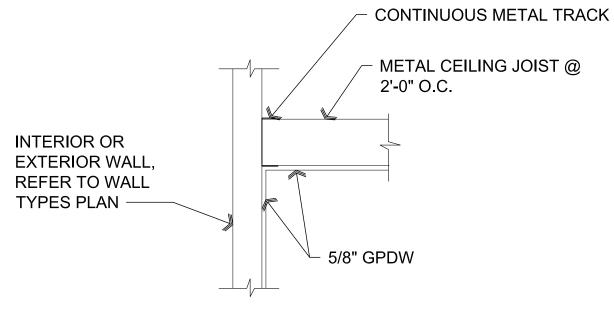
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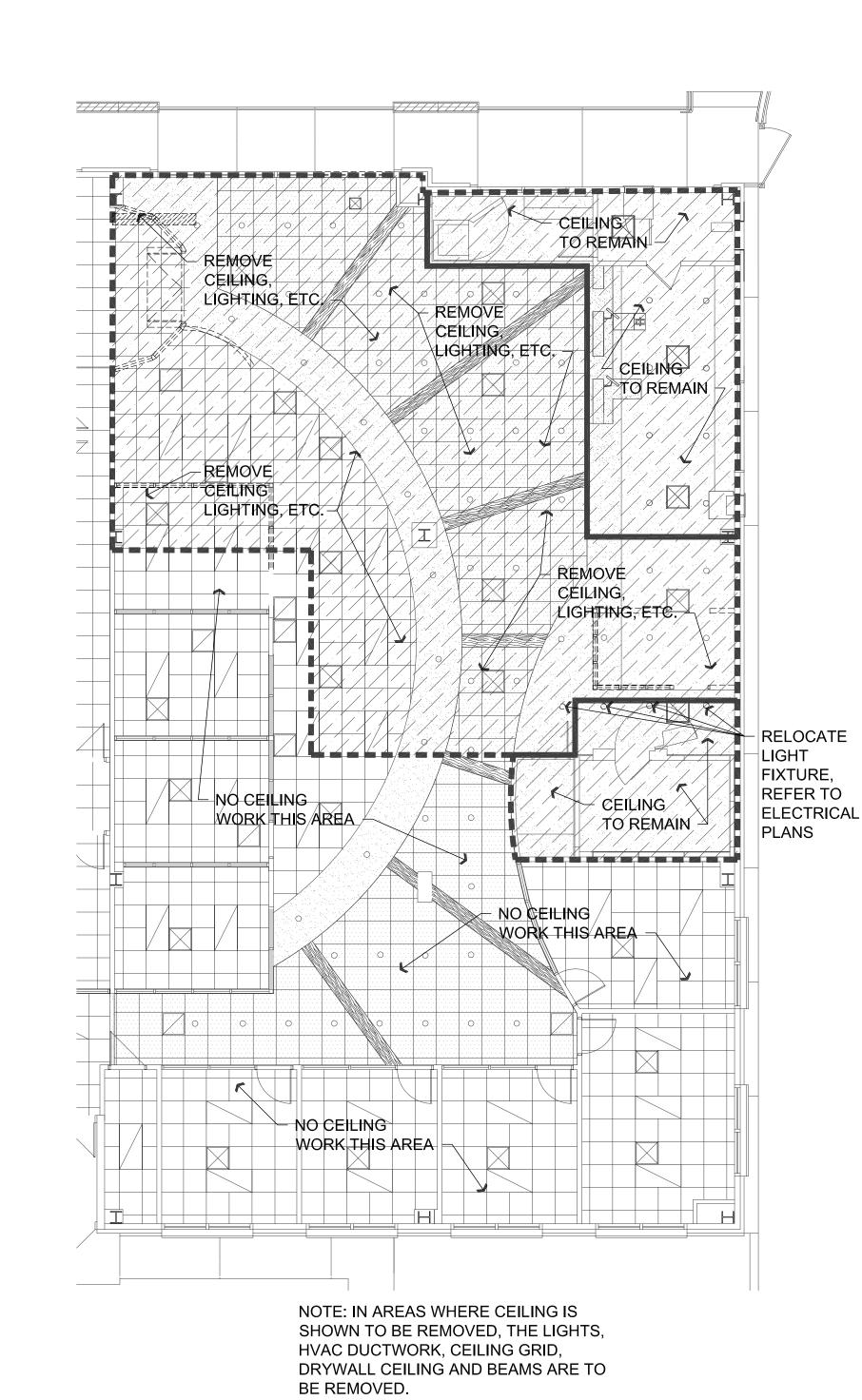
**A2.0** 

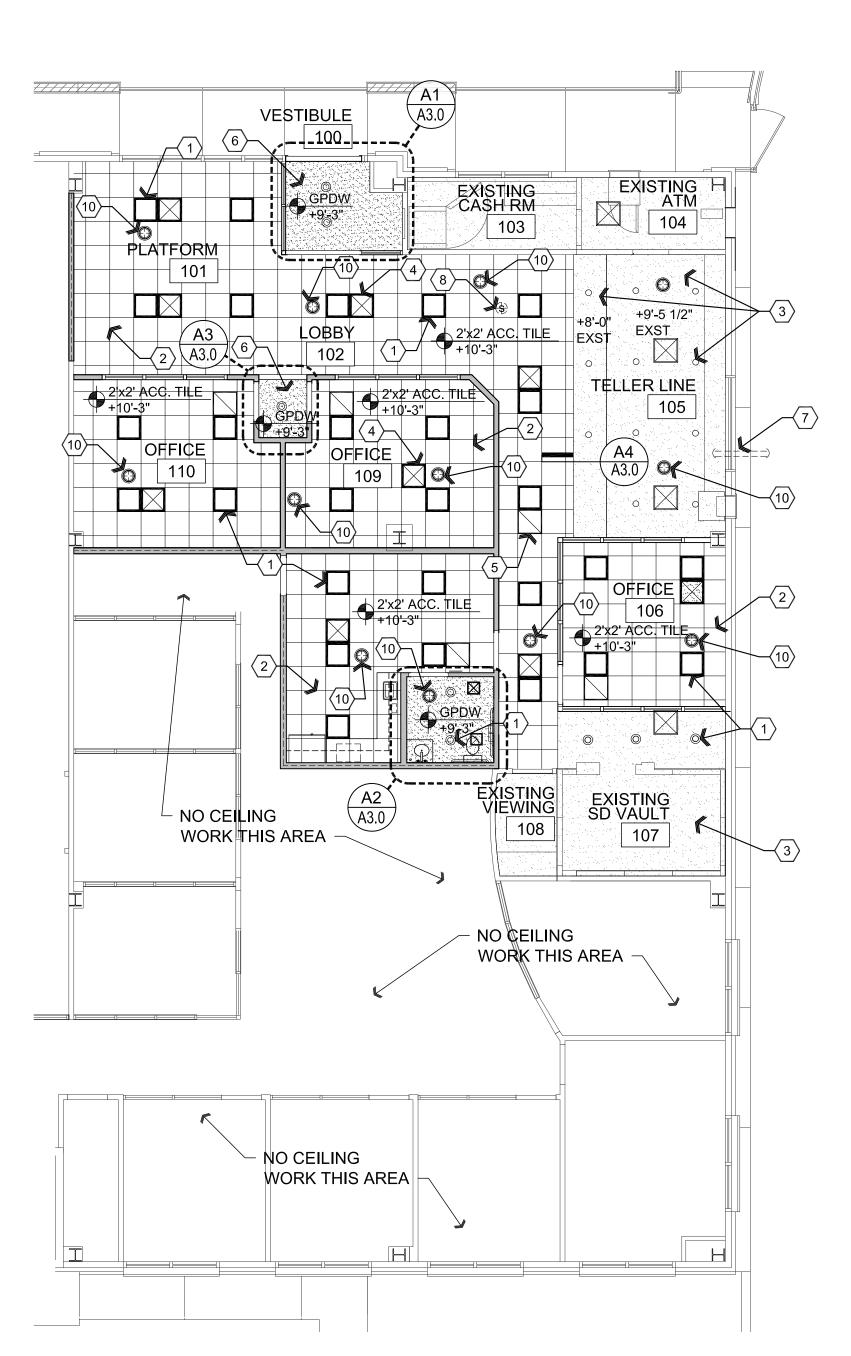


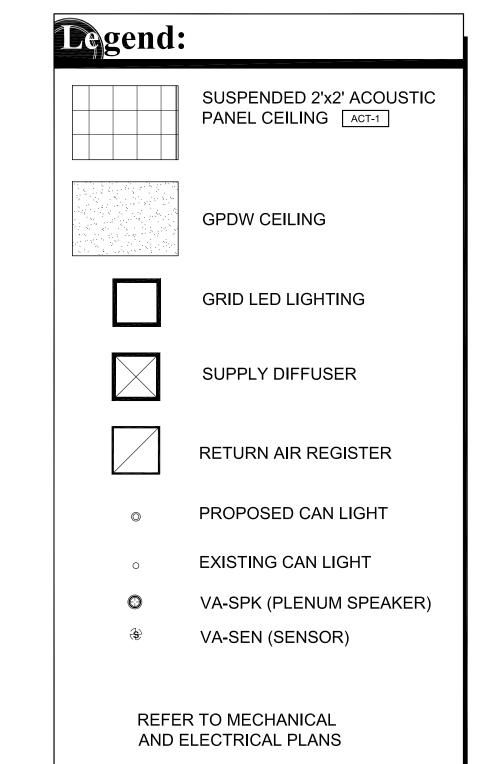
CONTINUOUS METAL TRACK - METAL CEILING JOIST @ INTERIOR OR EXTERIOR WALL, REFER TO WALL TYPES PLAN -5/8" GPDW



**B** Ceiling Framing SCALE: 1"=1'-0"







Discriptive Keynotes  $\bigcirc$ 

MATERIALS SCHEDULE. ACT-1

TYPICAL.

MPS ABOVE CEILING.

ONLY. REFER TO ELECTRICAL PLANS.

LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION

2. PROVIDE SUSPENDED ACOUSTIC PANEL CEILING, REFER TO

4. HVAC SUPPLY DIFFUSER, REFER TO MECHANICAL PLANS.

6. PROVIDE GPDW CEILING, REFER TO CEILING FRAMING PLAN.

UTILITY PAYMENTS FROM THE NO. 2 DRIVE-THROUGH LANE. 8. PROVIDE WHITE NOISE SENSOR DEVICE MANUFACTURED BY

7. REMOVE AND FACILITATE THE RELOCATION OF OVERHEAD PNEUMATIC TUBING TO CITY OF PRESCOTT SUITE FOR

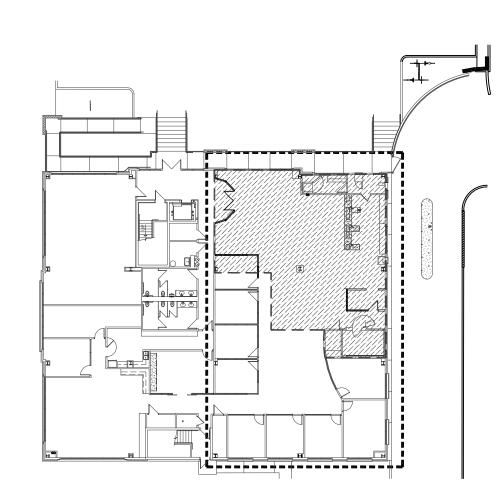
10. PROVIDE WHITE NOISE SPEAKERS AS MANUFACTURED BY

5. HVAC RETURN GRILLE, REFER TO MECHANICAL PLANS,

9. PROVIDE 6" 20 GAUGE METAL JOISTS @ 2'-0" O.C.

MPS ABOVE CEILING, TYPICAL OF 12.

3. EXISTING GPDW CEILING AND LIGHTING TO REMAIN.





B4 A3.0

B4 A3.0

B4 A3.0

Ceiling Framing Plan

Ceiling Framing Plan
Scale: 1/4"=1'-0"



**B** Demolition Reflected Ceiling Plan
Scale: 1/8"=1'-0"



Proposed Reflected Ceiling Plan
Scale: 1/8"=1'-0"







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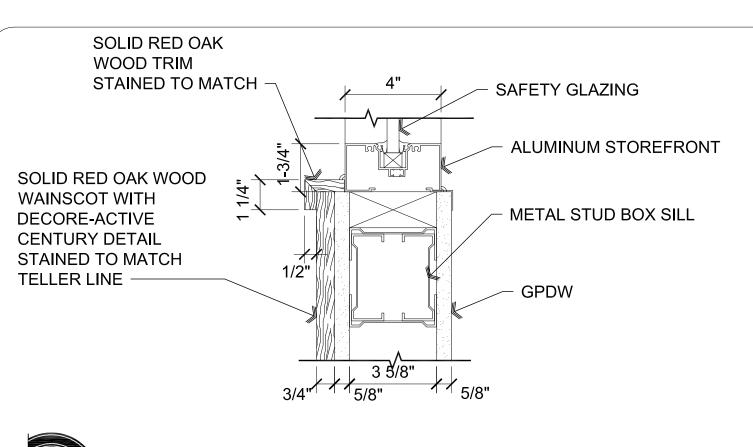
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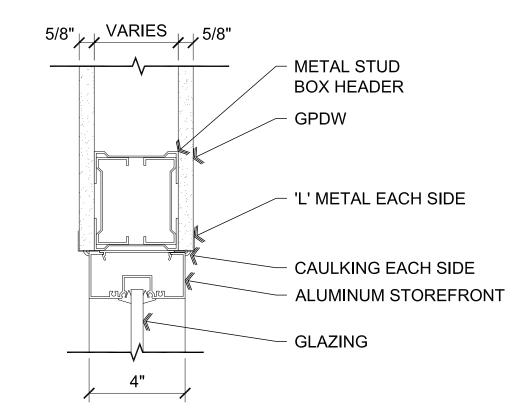
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**A3.0** 

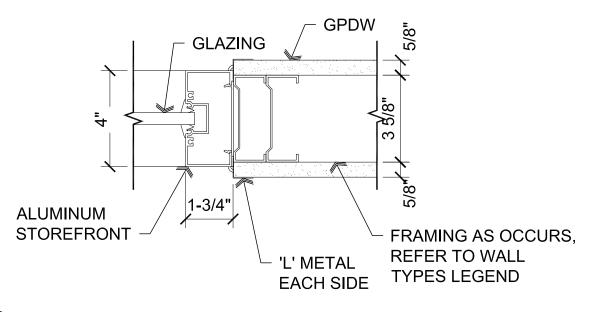
**SCALE:** 3'' = 1'-0''



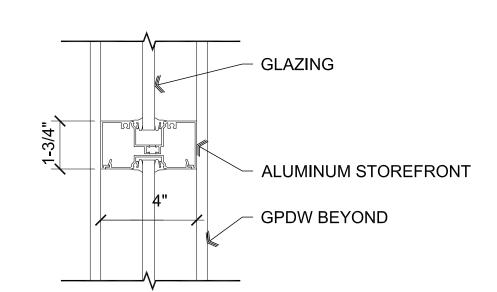
# Window Sill w/ Wainscot at Int. Wall



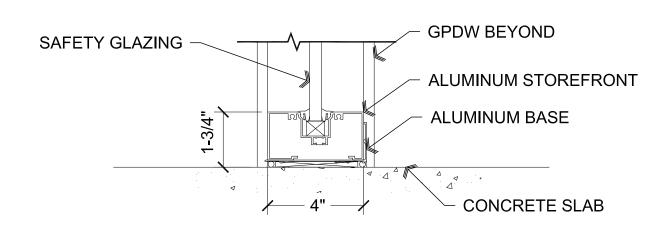
# Window Head at Interior Wall



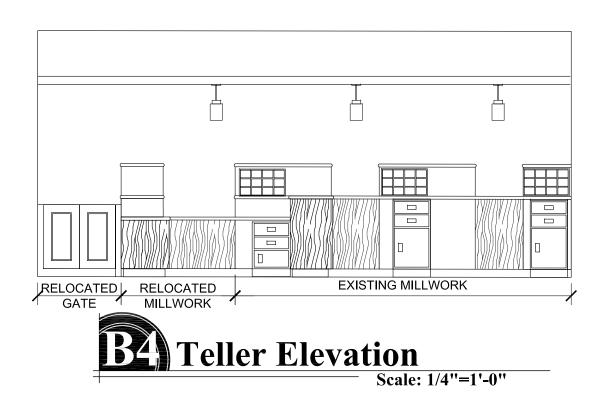
# Window Jamb at Interior Wall SCALE: 3" = 1'-0"

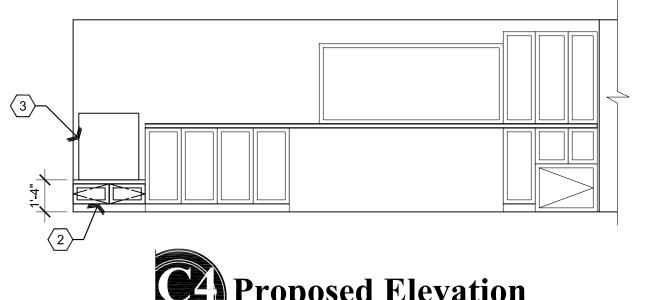


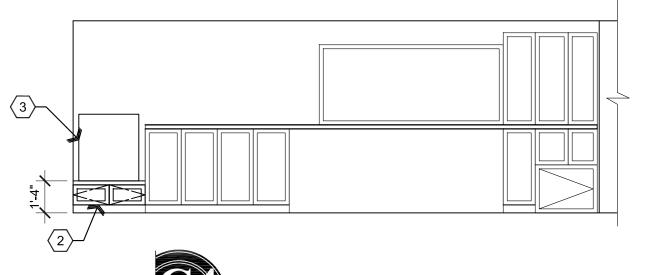
## **A2** Intermediate Mullion at Interior Wall SCALE: 3" = 1'-0"

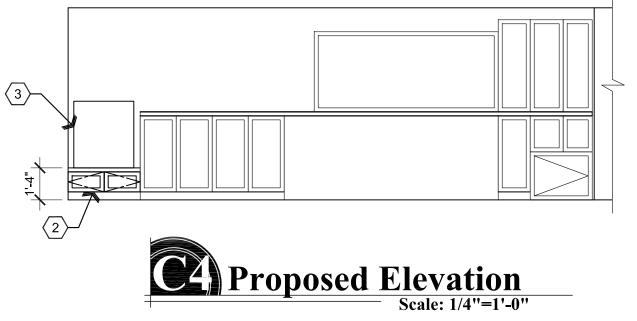


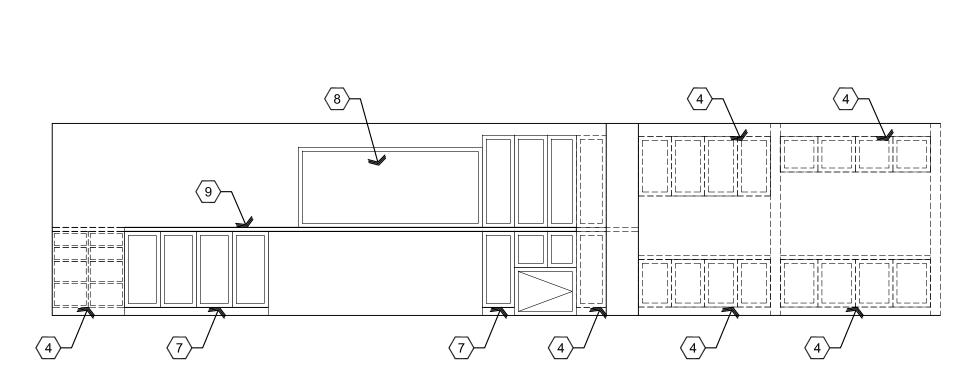
















Descriptive Keynotes

RELOCATED PRINTER LOCATION.

7. EXISTING MILLWORK TO REMAIN.

10. ENTRY ALCOVE INTO OFFICES.

EXISTING. WD-1

8. EXISTING WINDOW.

9. EXISTING COUNTERTOP.

1. WAINSCOT TO MATCH EXISTING. WD-1

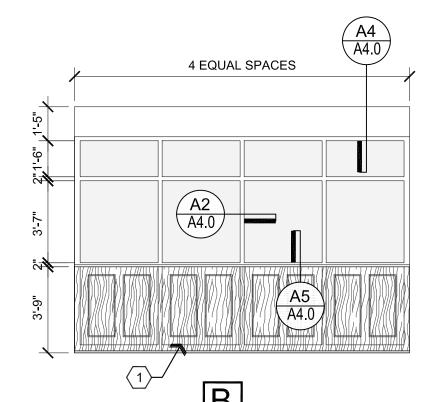
4. REMOVE EXISTING MILLWORK AS REQUIRED.

6. PROVIDE SOLID SURFACE COUNTERTOP. SS-1

11. DRYWALL PARTITION, REFER TO WALL TYPES PLAN.

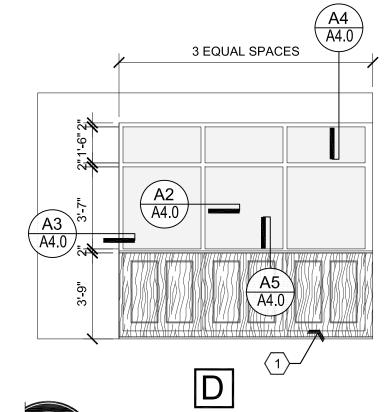
2. PROVIDE NEW MILLWORK BASE FOR PRINTER TO MATCH

5. PROVIDE WOOD CABINETS TO MATCH WOOD WAINSCOT. WD-1



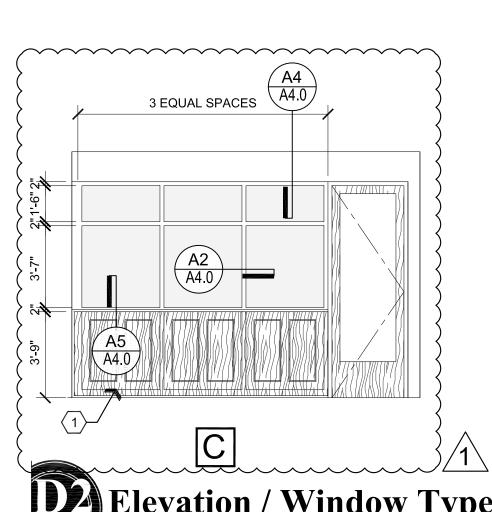
**EXISTING MILLWORK** 

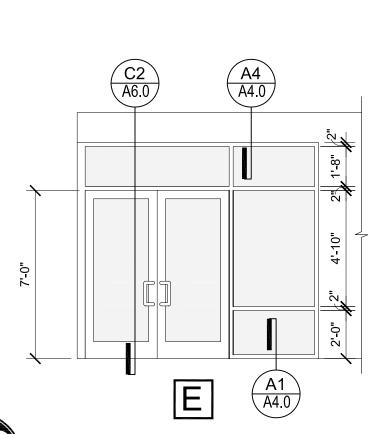
**B**Teller Elevation

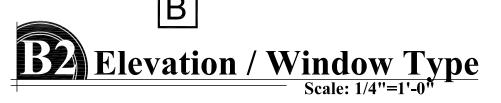


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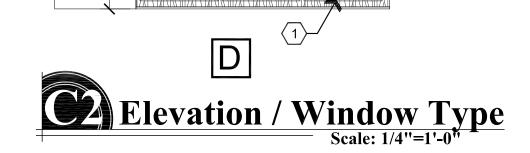
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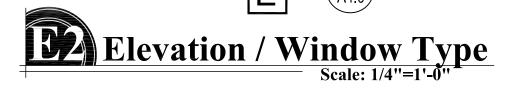


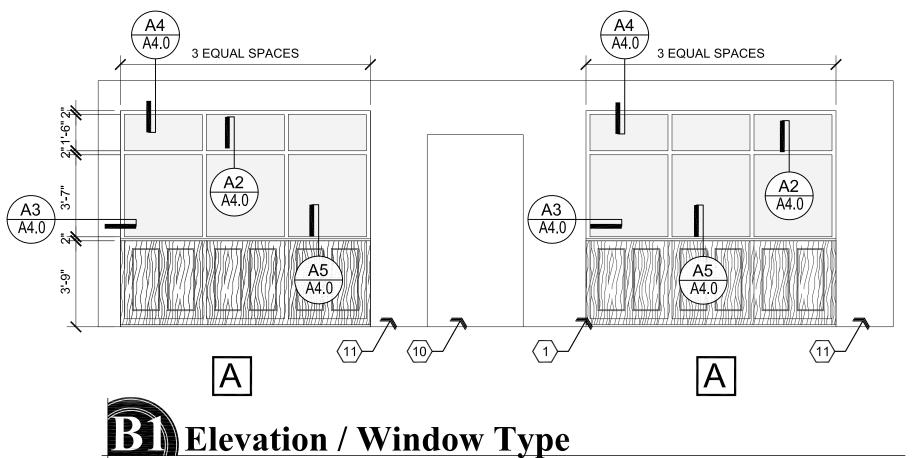


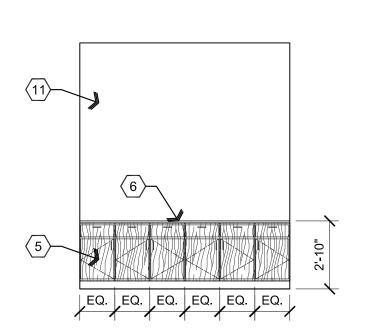
RELOCATED (



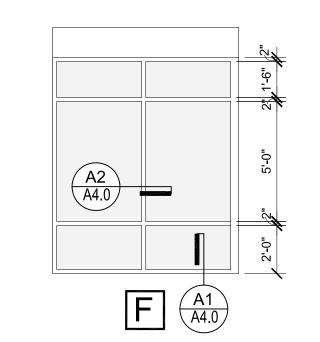
















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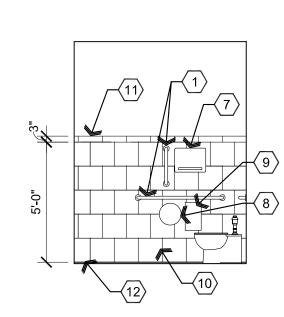
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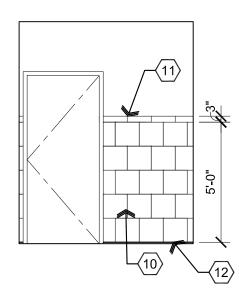
**A4.0** 



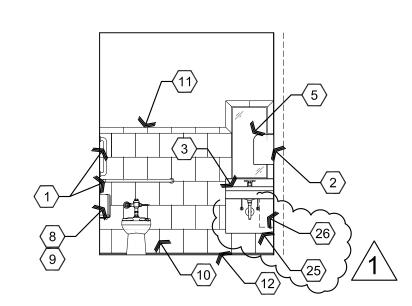


(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2 11	12
Elevati	ion	

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

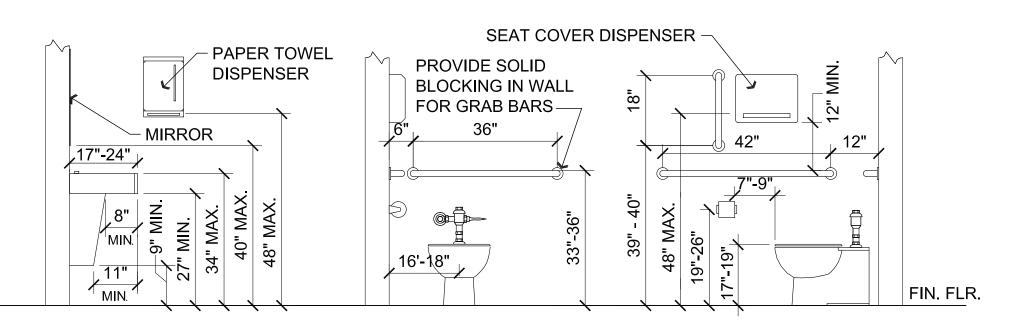






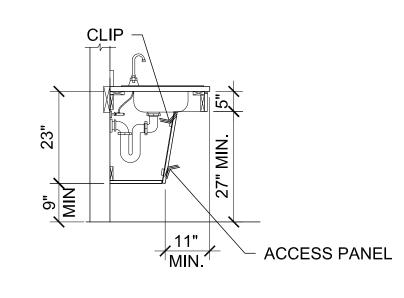


Tailet Accessory Schedule ### FIXTURE COLOR DESCRIPTION MANUFACTURER MODEL TA-1 HAND SOAP DISPENSER SURFACE MOUNTED KIMBERLY CLARK 92145 BLACK TA-2 KIMBERLY CLARK 09990 PAPER TOWEL DISPENSER SURFACE MOUNTED BLACK TA-3 SANITARY NAPKIN RECEPTACLE SURFACE MOUNTED **BOBRICK** B-35139 STAINLESS STEEL STAINLESS STEEL TA-4 GRAB BARS 42", 36", 18" 1 1/4" DIAMETER BOBRICK B-5806 TA-5 **TOILET SEAT COVER DISPENSER** KIMBERLY CLARK 9506 **BLACK** DOUBLE ROLL DISPENSER KIMBERLY CLARK 09604 **BLACK** TOILET PAPER DISPENSER

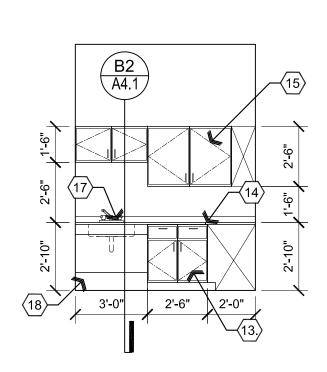




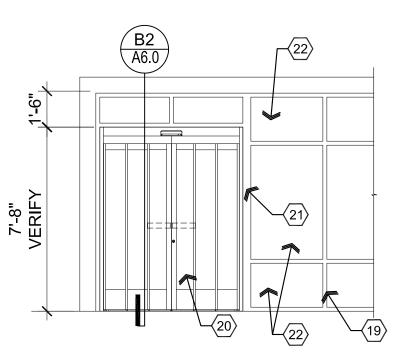
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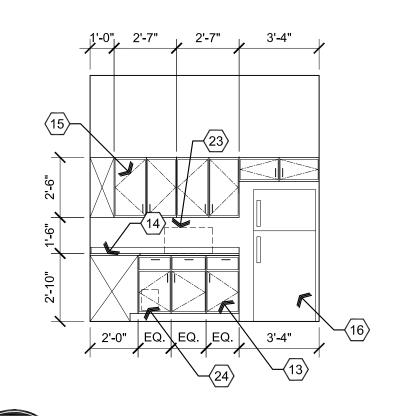










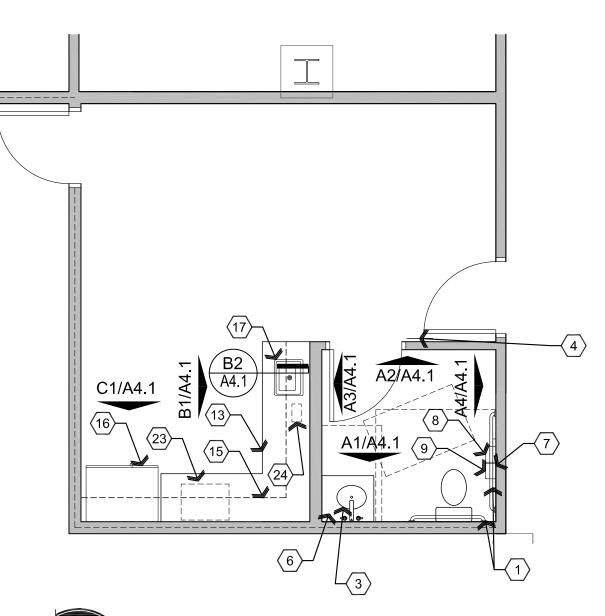






- 1. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 42" LONG AT SIDE OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET / 18" VERTICAL GRAB BAR, PROVIDE SOLID BLOCKING. REFER TO TOILET ACCESSORY SCHEDULE. TA-4
- 2. PROVIDE PAPER TOWEL DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-2
- 3. PROVIDE INTEGRAL LAVATORY IN SOLID SURFACE COUNTERTOP, INSULATE PIPES, REFER TO PLUMBING DRAWINGS.
- 4. PROVIDE ACCESSIBILITY SIGNAGE MOUNTED
- PER A.D.A. REQUIREMENTS.
- 5. PROVIDE 1/4" PLATE MIRROR. 6. PROVIDE SURFACE MOUNTED HAND SOAP
- DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-1
- 7. PROVIDE SURFACE MOUNTED TOILET SEAT COVER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-5
- 8. PROVIDE TOILET PAPER DISPENSER, REFER TO
- TOILET ACCESSORY SCHEDULE. TA-6 9. PROVIDE SANITARY NAPKIN RECEPTACLE,
- REFER TO TOILET ACCESSORY SCHEDULE. TA-3 10. PROVIDE CERAMIC TILE, REFER TO MATERIALS
- SCHEDULE. CT-2
- 11. PROVIDE SCHLUTER CAP. 12. PROVIDE INSIDE CORNER SCHLUTER TRIM.
- 13. PROVIDE PLASTIC LAMINATE LOWER CABINETS. PL-1
- 14. PROVIDE SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH. SS-1
- 15. PROVIDE PLASTIC LAMINATE UPPER CABINET. PL-1
- 16. REFRIGERATOR BY OWNER. 17. PROVIDE SINK AND FAUCET, REFER TO
- PLUMBING PLANS.
- 18. PROVIDE ADA ACCESSIBLE SINK CABINET.
- 19. EXISTING STOREFRONT WINDOW.
- 20. PROVIDE DURAFIT DOOR, REFER TO DOOR SCHEDULE.
- 21. REMOVE AND REPLACE EXISTING STOREFRONT MEMBER TO ACCOMMODATE VESTIBULE, REFER TO REFERENCE FLOOR
- 22. REMOVE AND REPLACE EXISTING INSULATED GLAZING AS REQUIRED TO ACCOMMODATE VESTIBULE.
- 23. MICROWAVE LOCATION, BY OWNER.
- 24. REVERSE OSMOSIS WATER DISPENSER BY
- OWNER OWNER 25. ACCESS PANEL.
- ( 26. POINT OF USE WATER HEATER.







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REVISIONS

City of Prescott Comments 11/17/2021

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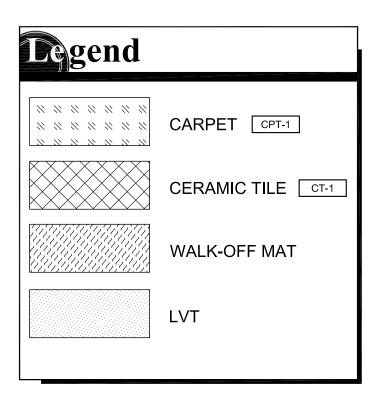
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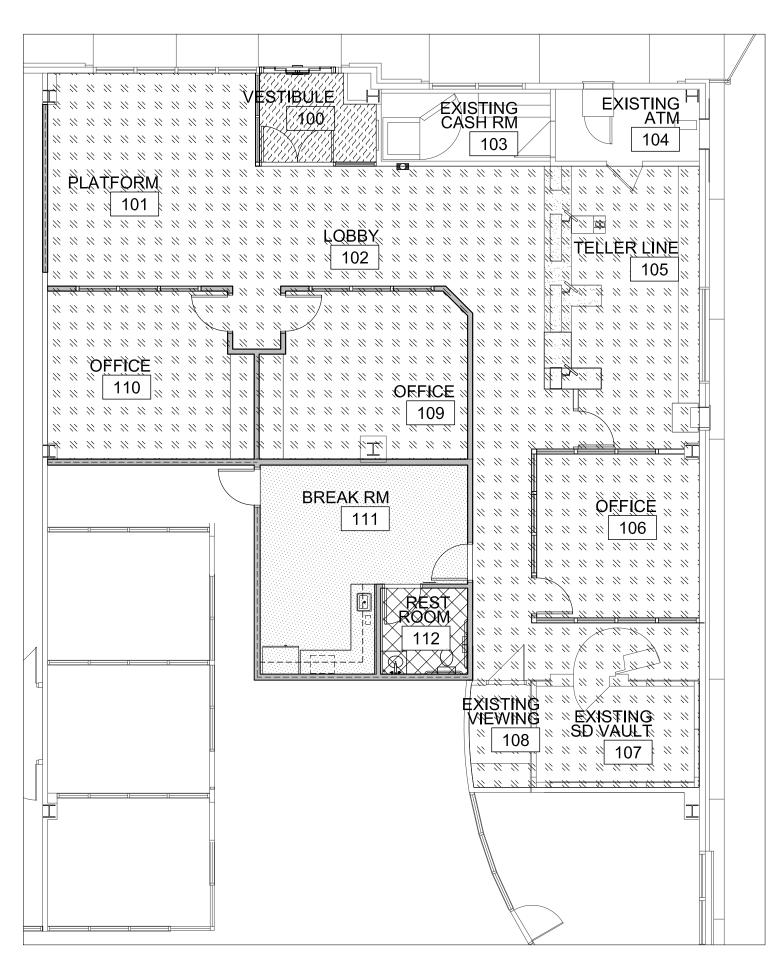
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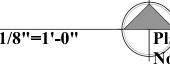
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Ric	om Finish S	Schedu	ıle			
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
100	VESTIBULE	F3	B1	W1	C2	9'-3"
101	PLATFORM	F1	B1	W1	C1	10'-3"
102	LOBBY	F1	B1	W1	C1	10'-3"
103	CASH ROOM	F1	B1	W1	EXST	EXST
104	ATM	F1	B1	W1	EXST	EXST
105	TELLER LINE	F1	B1	W1	EXST	EXST
106	OFFICE	F1	B1	W1	C1	10'-3"
107	VAULT	F1	B1	W1	EXST	EXST
108	VIEWING	F1	B1	W1	EXST	EXST
109	OFFICE	F1	B1	W1	C1	10'-3"
110	OFFICE	F1	B1	W1	C1	10'-3"
111	BREAK ROOM	F4	B1	W1	C1	10'-3"
112	RESTROOM	F2		W2/W1	C2	9'-3"

FLOOR: F1 CARPET CPT-1 W1 GPDW W2 CERAMIC TILE CT-2 F2 CERAMIC TILE CT-1 F3 WALK-OFF MAT WM-1 F4 LVT LVT-1 CEILING: C1 2x2 SUSPENDED ACOUSTICAL PANELS ACT-1 B1 RUBBER BASE RB-1 C2 GPDW

WALLS:

**Randware Types** 

HARDWARE SET A:
ENTRANCE HARDWARE BY DOOR MANUFACTURER

HARDWARE SET B: PRIVACY SCHLAGE LARGE FORMAT HINGES 4-1/2x4-1/2 TO MATCH EXISTING WALL STOP

HARDWARE SET C: EXISTING HARDWARE WITH RELOCATED DOOR. ENTRY LOCK TO BE RE-KEYED AS REQUIRED BY OWNER.

HARDWARE SET D:

3 EA. HINGE FBB179 4.5 X 4.5 US10B STANLEY

1 EA. RIM EXIT LD99EO X OP - 36" X 643E **VON DUPRIN** 

1 EA. RIM CYLINDER 20-097 X 613

1 EA. LFIC CORE 23-030 1 BIT C KEYWAY 6 PIN X 606

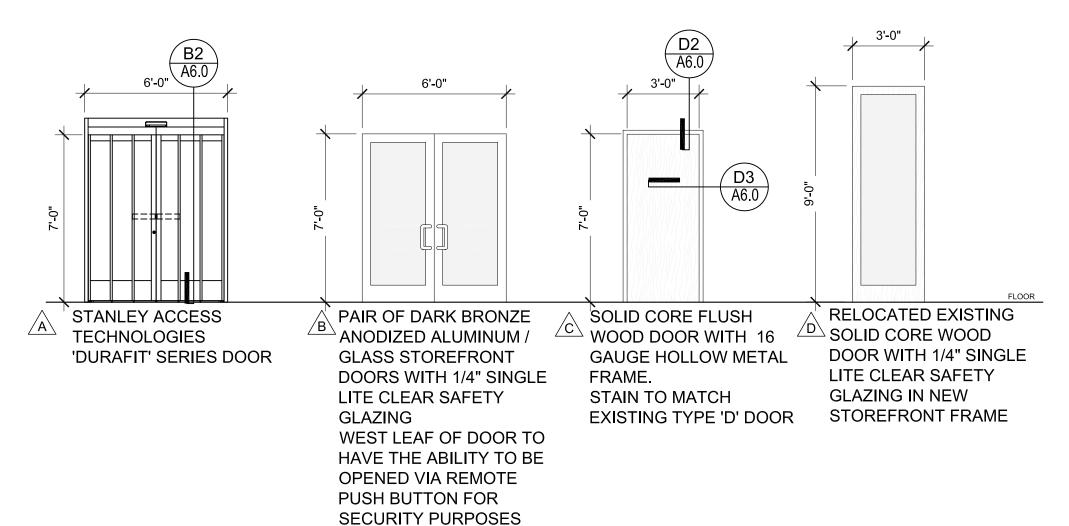
1 EA. CLOSER 4040XP RW/PA X 690 ( OPTIONAL )

1 EA. FLUSH PULL 955 X 613 IVES

Dior Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	VESTIBULE	6'-0"x7'-0"	А	ALUM / GLASS	ANODIZED	ALUMINUM	ANODIZED BRONZE	А
					BRONZE TO		TO MATCH EXST.	
					MATCH EXST.			
100B	VESTIBULE	(2)3'-0"x7'-0"	В	ALUM / GLASS	ANODIZED	ALUMINUM	ANODIZED BRONZE	A
					BRONZE TO		TO MATCH EXST.	
					MATCH EXST.			
106A	OFFICE	3'-0"x9'-0"	D	RELOCATED	EXST	ALUMINUM	ANODIZED BRONZE	С
109A	OFFICE	3'-0"x9'-0"	D	RELOCATED	EXST	ALUMINUM	ANODIZED BRONZE	С
110A	OFFICE	3'-0"x9'-0"	D	RELOCATED	EXST	ALUMINUM	ANODIZED BRONZE	С
111A	BREAK ROOM	3'-0"x9'-0"	D_	RELOCATED	EXST	ALUMINUM	ANODIZED BRONZE	~~~¢~~~
111B	BREAK ROOM	3'-0"x7'-0"	С	WOOD	STAIN	HM	PAINT	D
112A	^^ RESTROOM ^^	3'-0"\x7'-0"\\	~~~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STAIN	HM H	PAINT	B

- 1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C.
- 2. 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.
- 4. ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
- 5. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
- 6. 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.



B Door Types

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

Viete	rials schedule 🔀	- #		
CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
ACT-1	ACOUSTICAL CEILING TILE	REFER TO REFLECTED CEILING PLAN	ARMSTRONG	ASTM C 36; 2'x2' #770 NON DIRECTIONAL SQUARE LAY-IN TILE, WHITE SUSPENDED GRIDS; 15/16" METAL WHITE
CPT-1	2'x2' CARPET SQUARES		INTERFACE	STYLE: 1467302500; COLOR: SPICE 9358
CT-1	CERAMIC TILE	BREAK ROOM FLOOR	DALTILE	ARCHAIA ARTIFACT BEIGE AR41 12x24
CT-2	CERAMIC TILE	RESTROOM WALLS	DALTILE	BOTTICINO FIORITO M704 12x12
LVT-1	LUXURY VINYL TILE	BREAK ROOM FLOOR	ARMSTRONG	ASTANA LOTUS ST548 COLLECTION: TERRA COLOR: LOTUS SIZE: 18"x18"
PL-1	PLASTIC LAMINATE	BREAK ROOM VERTICAL SURFACES	WILSONART	D495 COFFEE BEAN
PT-1	PAINT	GPDW WALLS	BENJAMIN MOORE	
RB-1	4" RUBBER BASE		ROPPE	BLACK / BROWN
SS-1	SOLID SURFACE	BREAK ROOM AND OFFICE COUNTERTOP	WILSONART	9238SS IRON FALLS
SS-2	SOLID SURFACE	RESTROOM COUNTERTOP	WILSONART	9201GS HOT STONE
WD-1	WOOD	WAINSCOT AND CABINETRY IN OFFICES	MATCH EXISTING	TO BE STAINED TO MATCH EXISTING
WM-1	WALK-OFF MAT	VESTIBULE	TANDUS CENTIVA	ABRASIVE ACTION POWER BOND CUSHION CHARCOAL #19100

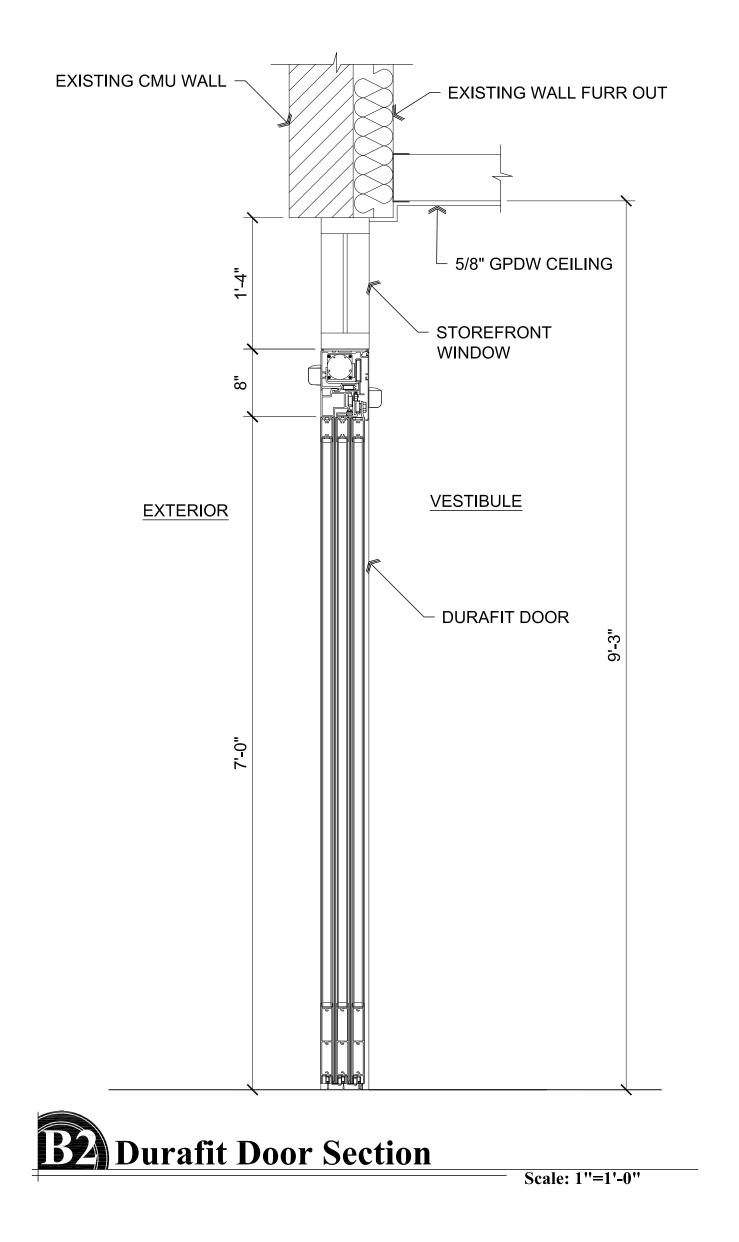
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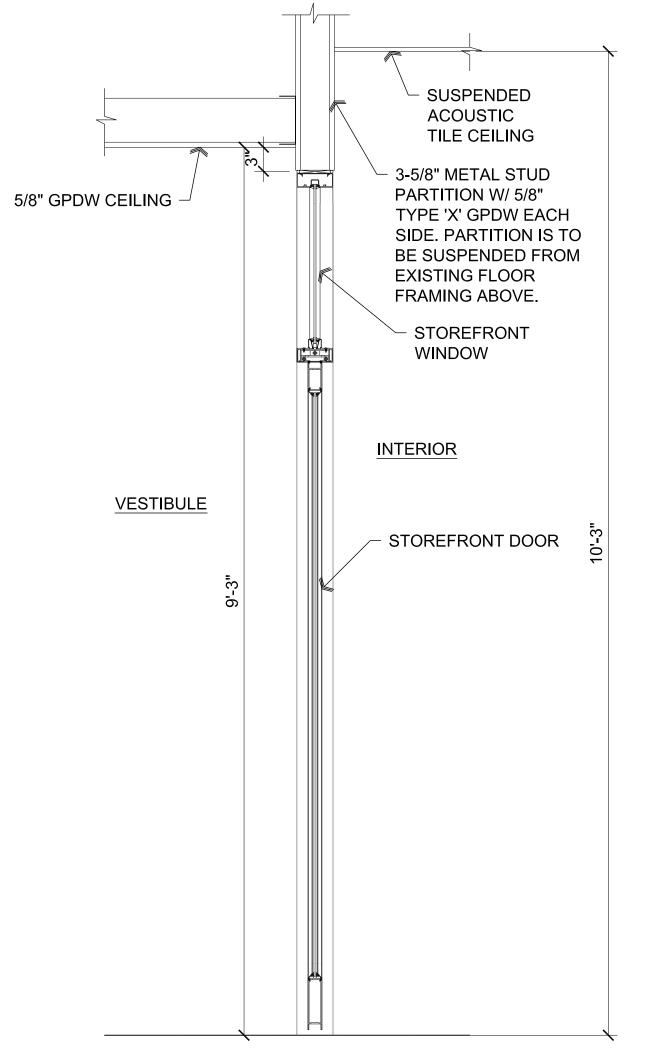
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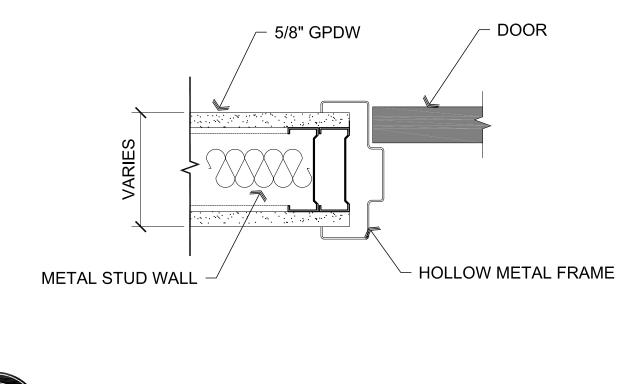
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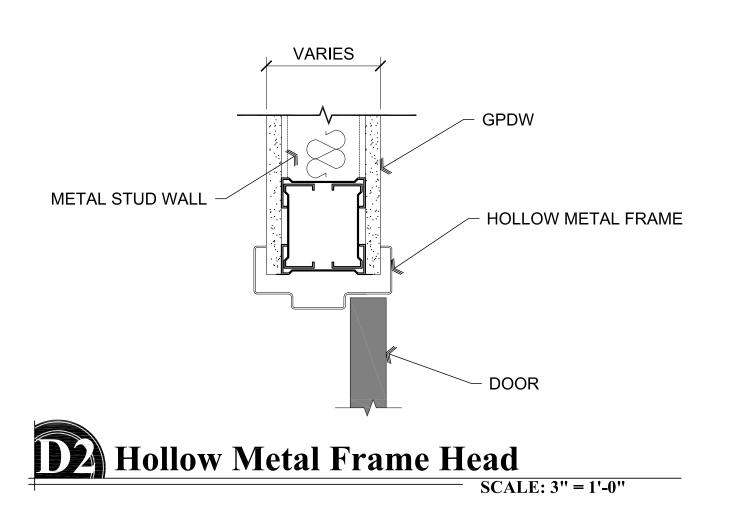
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**C2** Door Section

cale: 1"=1'-0"

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October 25th, 2021

JOB NO.
771

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#### SECTION 01000 - DEFINITIONS

- DRAWING PLAN CLARIFICATION: AN ANSWER FROM THE ARCHITECT, IN RESPONSE TO AN INQUIRY FROM THE CONTRACTOR, INTENDED TO MAKE SOME REQUIREMENT(S) OF THE DRAWINGS OR PLANS CLEARLY UNDERSTOOD. DRAWING/PLAN CLARIFICATIONS MAY BE SKETCHES, DRAWINGS OR IN NARRATIVE FORM AND WILL NOT CHANGE ANY REQUIREMENTS OF THE DRAWINGS OR PLANS, RESPONSES TO CONTRACTOR INQUIRIES SHALL BE AS OUTLINED IN SECTION 01005.
- PROJECT COMMUNICATIONS: ROUTINE WRITTEN COMMUNICATIONS BETWEEN THE ARCHITECT AND THE CONTRACTOR SHALL BE IN LETTER, FIELD MEMO, OR EMAIL FORMAT. SUCH COMMUNICATIONS SHALL NOT BE IDENTIFIED AS REQUESTS FOR INFORMATION NOR SHALL THEY SUBSTITUTE FOR ANY OTHER WRITTEN REQUIREMENT PURSUANT TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
- REQUEST FOR INFORMATION: A REQUEST FROM THE CONTRACTOR OR ONE OF THEIR SUBCONTRACTORS, TO THE ARCHITECT, SEEKING AN INTERPRETATION OR A CLARIFICATION OF SOME REQUIREMENT OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE FOR WHICH THEY SEEK CLARIFICATION OR INTERPRETATION AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT. THE CONTRACTOR SHALL, IN THE WRITTEN REQUEST, SET FORTH ITS INTERPRETATION OR UNDERSTANDING OF THE CONTRACT'S REQUIREMENTS ALONG WITH REASONS WHY IT HAS REACHED SUCH AN UNDERSTANDING. RESPONSES FROM THE ARCHITECT WILL NOT CHANGE ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS, RESPONSES TO CONTRACTOR INQUIRIES SHALL BE AS OUTLINED IN SECTION 01005

#### **SECTION 01005 - REQUEST FOR INFORMATION (RFI) PROCEDURES**

- ALL RFIS SHALL BE SUBMITTED TO ARCHITECT VIA EMAIL IN WORD DOCUMENT (.DOC) OR ADOBE (.PDF) FORMATS ONLY. EMAIL ADDRESS IS WAKAARCHITECT@GMAIL.COM. ANY OTHER TYPE OF SUBMITTAL PROCESS OR PROCEDURE WILL NOT BE RESPONDED
- IN THE EVENT THAT THE CONTRACTOR OR SUBCONTRACTOR, AT ANY TIER, DETERMINES THAT SOME PORTION OF THE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS REQUIRES CLARIFICATION OR INTERPRETATION BY THE ARCHITECT, THE CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT. RFIS MAY ONLY BE SUBMITTED BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE OF WHICH CLARIFICATION OR INTERPRETATION IS SOUGHT AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT. IN THE RFI, THE CONTRACTOR SHALL SET FORTH THEIR INTERPRETATION OR UNDERSTANDING OF THE REQUIREMENT ALONG WITH REASONS WHY SUCH AN UNDERSTANDING WAS REACHED.
- THE ARCHITECT ACKNOWLEDGES THAT THIS IS A COMPLEX PROJECT BASED UPON THE ARCHITECT'S PAST EXPERIENCE WITH PROJECTS OF SIMILAR COMPLEXITY.
- THE ARCHITECT WILL REVIEW ALL PROPERLY SUBMITTED RFIS TO DETERMINE WHETHER THEY ARE RFIS WITHIN THE MEANING OF THIS TERM. IF THE ARCHITECT DETERMINES THAT THE DOCUMENT IS NOT AN RFI. IT WILL BE RETURNED TO THE CONTRACTOR. UN-REVIEWED AS TO CONTENT, FOR RE-SUBMITTAL IN THE PROPER FORM.
- RESPONSES TO RFIS SHALL BE ISSUED WITHIN SEVEN (7) WORKING DAYS OF RECEIPT OF THE REQUEST FROM THE CONTRACTOR UNLESS THE ARCHITECT DETERMINES THAT A LONGER TIME IS NECESSARY TO PROVIDE AN ADEQUATE RESPONSE. IF A LONGER TIME IS DETERMINED NECESSARY BY THE ARCHITECT. THE ARCHITECT WILL WITHIN FIVE (5) WORKING DAYS OF RECEIPT OF THE REQUEST, NOTIFY THE CONTRACTOR OF THE ANTICIPATED RESPONSE TIME. IF THE CONTRACTOR SUBMITS AN RFI ON AN ACTIVITY WITH SEVEN(7) WORKING DAYS OR LESS OF FLOAT ON THE CURRENT PROJECT SCHEDULE THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY TIME EXTENSION DUE TO THE TIME IT TAKES THE ARCHITECT TO RESPOND TO THE REQUEST PROVIDED THAT THE ARCHITECT RESPONDS WITHIN THE SEVEN (7) WORKING DAYS SET FORTH ABOVE.
- ARCHITECT WILL RESPOND TO ALL RFIS VIA EMAIL TO ONE CONTACT IN THE CONTRACTOR'S OFFICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FORWARDING THIS RESPONSE EMAIL TO ALL PERTINENT PERSONNEL, SUBCONTRACTORS AND SUPPLIERS.
- RESPONSES FROM THE ARCHITECT WILL NOT CHANGE ANY REQUIREMENT OF THE CONTRACT DOCUMENTS. IN THE EVENT THE CONTRACTOR BELIEVES THAT A RESPONSE TO AN RFI WILL CAUSE A CHANGE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENT, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE T THE ARCHITECT STATING THAT THE CONTRACTOR CONSIDERS THE RESPONSE TO BE A CHANGE ORDER. FAILURE TO GIVE SUCH WRITTEN NOTICE SHALL WAIVE THE CONTRACTOR'S RIGHT TO SEEK ADDITIONAL TIME OR COST.

### **SECTION 01010 - SUMMARY OF WORK**

- THE AIA "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" (FORM A201-2017) SHALL BE A PART OF THE CONTRACT DOCUMENTS, ALONG WITH THESE DRAWINGS AND SPECIFICATIONS.
- IN THE PREPARATION OF THESE SPECIFICATIONS AN EFFORT HAS BEEN MADE TO SEGREGATE THE VARIOUS BRANCHES OF THE WORK UNDER HEADINGS. BY TRADES. THIS IS DONE ONLY FOR CONVENIENCE AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING EVERY ITEM INDICATED OR SPECIFIED WHETHER PROPERLY SEGREGATED OR NOT.

- THE MISPLACEMENT. ADDITION OR OMISSION OF ANY LETTER. WORD OR PUNCTUATION MARK, OR LACK OF CAPITALIZATION OF A WORD, SHALL IN NO WAY DAMAGE THE TRUE SPIRIT, INTENT, OR MEANING OF THESE SPECIFICATIONS.
- CONTRACTOR SHALL COMPLY WITH, AND REQUIRE ALL SUBCONTRACTORS TO COMPLY WITH, STATE AND CITY CONTRACTOR'S LICENSE LAWS AND BE DULY REGISTERED AND LICENSED THEREUNDER.
- WHERE SPECIFIC INSTRUCTIONS IN THESE SPECIFICATIONS REQUIRE THAT A PARTICULAR PRODUCT AND/OR MATERIAL(S) BE INSTALLED AND/OR APPLIED BY AN APPROVED APPLICATOR OF THE MANUFACTURER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ANY SUBCONTRACTORS USED FOR SUCH WORK BE AN APPROVED APPLICATOR.

#### SECTION 01015 - PROJECT COORDINATION

- THE GENERAL CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN VARIOUS SECTIONS OF THESE SPECIFICATIONS TO ASSURE EFFICIENT COORDINATION AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. THE GENERAL CONTRACTOR SHALL ALSO COORDINATE CONSTRUCTION OPERATIONS INCLUDED UNDER DIFFERENT SECTIONS THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CLEARANCES, CONNECTIONS, AND OPERATIONS.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THE OWNER'S VENDOR'S WORKS.
- THE VENDOR'S THAT WILL SUPPLY AND INSTALL THESE ITEMS HAS NOT BEEN CHOSEN YET. AS SOON AS THE VENDOR'S ARE DETERMINED THE CONTRACTOR WILL BE NOTIFIED OF ALL CONTACT INFORMATION.
- THE PROJECT SUPERINTENDENT AND THE PROJECT MANAGER SHALL HAVE A MEETING WITH THE FOREMEN OF THE MECHANICAL ELECTRICAL, FIRE SPRINKLER, AND PLUMBING SUBCONTRACTORS PRIOR TO THE INSTALLATION OF ANY OF THEIR MATERIALS AND EQUIPMENT IN THE BUILDING. THE PURPOSE OF THIS MEETING SHALL BE TO REQUIRE ALL OF THESE SUBCONTRACTORS TO COORDINATE THEIR INSTALLATION LOCATIONS OF THEIR MATERIALS AND EQUIPMENT SO THAT THERE ARE NO CONFLICTS IN THE FIELD. ALL OF THESE SUBCONTRACTORS MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS HIGH AS IS POSSIBLE WITHIN THE STRUCTURAL FRAMING SYSTEMS AND IS NOT TO BE INSTALLED ANY LOWER THAN THE BOTTOM OF THE STRUCTURAL ROOF AND FLOOR SYSTEMS UNLESS APPROVED IN ADVANCE IN WRITING BY THE ARCHITECT, SHOULD THERE END UP BEING A CONFLICT BETWEEN THE SUBCONTRACTORS MATERIALS AND EQUIPMENT. THEN THE CONFLICTING MATERIALS AND EQUIPMENT SHALL BE REMOVED AND PROPERLY REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.

#### **SECTION 01017 - SUPERINTENDENT**

- THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL BE IN ATTENDANCE AT THE PROJECT SITE DURING PERFORMANCE OF THE WORK
- THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR, AND COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING IF GIVEN TO THE CONTRACTOR, IMPORTANT COMMUNICATIONS SHALL BE CONFIRMED IN WRITING. OTHER COMMUNICATIONS SHALL BE SIMILARLY CONFIRMED ON WRITTEN REQUEST IN EACH CASE.

### SECTION 01025 - APPLICATIONS FOR PAYMENT

- SUBMIT APPLICATIONS FOR PAYMENT TO OWNER IN ACCORD WITH THE SCHEDULE ESTABLISHED BY CONDITIONS OF THE CONTRACT AND AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- 2. NO PROJECTIONS IN PAYMENTS WILL BE ALLOWED.
- SUBMIT ITEMIZED APPLICATIONS TYPED ON AIA DOCUMENT G702-92, "APPLICATIONS AND CERTIFICATE FOR PAYMENT" AND CONTINUATION SHEETS G703-92.
- CONTRACTOR SHALL SUBMIT ROUGH DRAFT OF THE APPLICATIONS FOR PAYMENT TO ARCHITECT FOR AN ON-SITE REVIEW FOLLOWING END OF DRAW PERIOD; THEN SUBMIT ONE (1) FINAL COPY AT THE TIMES STIPULATED IN THE AGREEMENT.

## SECTION 01040 - CONTRACTOR'S CONSTRUCTION SCHEDULES

- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SCHEDULE, FOR THE WORK, WITHIN 7 CALENDAR DAYS OF BEING AWARDED THE CONTRACT AND SUBMIT IT FOR THE OWNER'S AND ARCHITECT'S INFORMATION.
- 2. THE SCHEDULE SHALL BE A CRITICAL PATH METHOD SCHEDULE AND SHALL DEMONSTRATE A REALISTIC, EXPEDITIOUS PLAN FOR COMPLETING THE WORK WITHIN THE PARAMETERS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL CONFORM TO THE MOST RECENT SCHEDULE.
- THE SCHEDULE SHALL NOT EXCEED TIME LIMITS CURRENT UNDER THE CONTRACT DOCUMENTS.
- THE SCHEDULE SHALL BE REVISED AT APPROPRIATE INTERVALS AS REQUIRED BY THE CONDITIONS OF THE WORK AND PROJECT, SHALL BE RELATED TO THE ENTIRE PROJECT TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS AND SHALL PROVIDE FOR EXPEDITIOUS AND PRACTICABLE EXECUTION OF THE WORK.

### SECTION 01045 - SUBCONTRACTORS

- THE CONTRACTOR SHALL FURNISH TO THE OWNER THROUGH THE ARCHITECT THE NAMES OF PERSONS OR ENTITIES (INCLUDING THOSE WHO ARE TO FURNISH MATERIALS OR EQUIPMENT FABRICATED TO A SPECIAL DESIGN) PROPOSED FOR EACH PRINCIPAL PORTION OF THE WORK.
- THE ARCHITECT WILL PROMPTLY REPLY TO THE CONTRACTOR STATING WHETHER OR NOT THE OWNER OR THE ARCHITECT. AFTER DUE INVESTIGATION, HAS REASONABLE OBJECTIONS TO ANY SUCH PROPOSED PERSON OR ENTITY.

- 3. FAILURE OF THE OWNER OR ARCHITECT TO REPLY PROMPTLY SHALL CONSTITUTE NOTICE OF NO REASONABLE OBJECTION.
- 4. THE CONTRACTOR SHALL NOT CONTRACT WITH A PROPOSED PERSON OR ENTITY TO WHOM THE OWNER OR ARCHITECT HAS MADE REASONABLE AND TIMELY OBJECTION. THE CONTRACTOR SHALL NOT BE REQUIRED TO CONTRACT WITH ANYONE TO WHOM THE CONTRACTOR HAS MADE REASONABLE OBJECTION

## SECTION 01050 - FIELD ENGINEERING

- CONTRACTOR SHALL VERIFY LOCATION OF ALL MONUMENTS AND BENCHMARKS SHOWN ON THE DRAWINGS
- CONTRACTOR SHALL: 2.1 PROVIDE FIELD PROFESSIONAL ENGINEERING SERVICES AS SPECIFIED OR REQUIRED TO EXECUTE CONTRACTOR
- CONSTRUCTION METHOD. 2.2 DEVELOP AND MAKE ALL DETAIL SURVEYS AND MEASUREMENT NEEDED FOR CONSTRUCTION, INCLUDING ALL
- WORKING LINES AND ELEVATION. 2.3 PROVIDE ALL MATERIAL REQUIRED FOR BENCHMARKS, CONTROL POINTS, BATTER BOARDS, GRADE STAKES AND OTHER
- ITEMS. 2.4 BE SOLELY RESPONSIBLE FOR ALL LOCATIONS, DIMENSIONS AND LEVELS. NO DATA OTHER THAN WRITTEN ORDERS OF THE ARCHITECT SHALL JUSTIFY DEPARTURE FROM THE DIMENSIONS AND LEVELS REQUIRED BY THE DRAWINGS.

#### SECTION 01340 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- SHOP DRAWINGS ARE DRAWINGS, DIAGRAMS, SCHEDULES AND OTHER DATA SPECIALLY PREPARED FOR THE WORK BY THE CONTRACTOR OR A SUBCONTRACTOR, SUB-SUBCONTRACTOR. MANUFACTURER, SUPPLIER OR DISTRIBUTOR TO ILLUSTRATE SOME PORTION OF THE WORK.
- PRODUCT DATA ARE ILLUSTRATIONS, STANDARD SCHEDULES, PERFORMANCE CHARTS, INSTRUCTIONS, BROCHURES, DIAGRAMS AND OTHER INFORMATION FURNISHED BY THE CONTRACTOR TO ILLUSTRATE MATERIALS OR EQUIPMENT FOR SOME PORTION OF THE WORK
- SAMPLES ARE PHYSICAL EXAMPLES, WHICH ILLUSTRATE MATERIALS, EQUIPMENT OR WORKMANSHIP AND ESTABLISH STANDARDS BY WHICH THE WORK WILL BE JUDGED.
- THE CONTRACTOR SHALL PREPARE AND KEEP CURRENT, FOR THE ARCHITECT'S APPROVAL, A SCHEDULE OF SUBMITTALS WHICH IS COORDINATED WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE AND ALLOWS THE ARCHITECT REASONABLE TIME TO REVIEW SUBMITTALS. THIS SCHEDULE OF SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL CONFORM TO THE MOST RECENT SCHEDULE.
- THE PURPOSE FOR THESE SUBMITTALS IS TO DEMONSTRATE FOR THOSE PORTIONS OF THE WORK FOR WHICH SUBMITTALS ARE REQUIRED THE WAY THE CONTRACTOR PROPOSES TO CONFORM TO THE INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT TO THE ARCHITECT SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS WITH REASONABLE PROMPTNESS AND IN SUCH SEQUENCE AS TO CAUSE NO DELAY IN THE WORK OR IN THE ACTIVITIES OF THE OWNER OR OF SEPARATE CONTRACTORS.
- SUBMITTALS MADE BY THE CONTRACTOR, WHICH ARE NOT REQUIRED BY THE CONTRACT DOCUMENTS. MAY BE RETURNED WITHOUT ACTION.
- THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS. PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE ARCHITECT HAS APPROVED THE RESPECTIVE SUBMITTAL, SUCH WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS.
- BY APPROVING AND SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO OR WILL DO SO, AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
- 10. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION, THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT'S APPROVAL THEREOF.
- 11. THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION, IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS.
- 12. THE CONTRACTOR SHALL CHECK, APPROVE, AND SUBMIT WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS WORK, ONE (1) ELECTRONIC COPY AND ONE (1) PAPER COPY OF ALL SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS AS CALLED FOR IN THE VARIOUS SECTIONS, DETAILS, AND PARTS TO BE USE IN THE WORK.

#### SECTION 01350 - SUBSTITUTIONS

THE CONTRACTOR SHALL BASE HIS PROPOSAL ON THE EXACT BRANDS, SYSTEMS, METHODS, AND MATERIALS SHOWN, IF THE CONTRACTOR DESIRES TO MAKE SUBSTITUTIONS, HE SHALL LIST THEM WITH HIS BID AND IN HIS CONTRACT. THE LISTING SHALL BE IN SUFFICIENT DETAIL TO AFFORD THE OWNER MEANS OF COMPARISON AND MUST INCLUDE THE MONETARY DIFFERENCE IN CONTRACT PRICE IF THE SUBSTITUTION IS ACCEPTED. SUBSTITUTIONS AFTER SIGNING THE CONTRACT SHALL BE BY CHANGE ORDER ONLY.

#### **SECTION 01360 - RECORD DRAWINGS**

THE WORK OF THE FOLLOWING TECHNICAL SECTIONS SHALL BE MARKED ON A CLEAN SET OF PLANS, SHOWING THE EXACT LOCATIONS OF THE VARIOUS PARTS OF THE WORK IF DIFFERENT FROM DRAWINGS: MECHANICAL. PLUMBING. AND ELECTRICAL

#### SECTION 014000 - QUALITY CONTROL

- ALL COSTS INCURRED FOR TESTING LABORATORY SERVICES SHALL BE PAID BY THE CONTRACTOR.
- TESTING LABORATORY SHALL REPORT THE RESULTS OF ALL TESTS, IN WRITING, VIA EMAIL, SIMULTANEOUSLY TO THE FOLLOWING: ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR.

#### **SECTION 01410 - ERRORS AND OMISSIONS**

- IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION.
- IN THE EVENT OF THE CONTRACTOR'S FAILURE TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING
- THE CONTRACTOR SHALL HAVE ALL ITEMS OR DETAILS CLARIFIED WITH ARCHITECT PRIOR TO SUBMITTING A BID; OTHERWISE ARCHITECTS INTERPRETATION SHALL BE FINAL
- IF THERE IS A CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DRAWINGS THEN THE ARCHITECT WILL MAKE A WRITTEN INTERPRETATION WHICH SHALL BE FINAL AND BINDING UPON THE CONTRACTOR. THE ARCHITECT'S INTERPRETATION SHALL BE REASONABLE AND CONSISTENT WITH THE INTENT EXPRESSED IN THE CONTRACT DOCUMENTS.

#### SECTION 015000 - CONST. FACILITIES & TEMPORARY UTILITIES

- THE CONTRACTOR SHALL MAINTAIN AT THE SITE FOR THE OWNER, ONE RECORD COPY OF THE DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, RFI'S, PROPOSAL REQUESTS, AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED CURRENTLY TO RECORD CHANGES AND SELECTIONS MADE DURING CONSTRUCTION, AND IN ADDITION APPROVED SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR REQUIRED SUBMITTALS. THESE SHALL BE AVAILABLE TO THE ARCHITECT AND SHALL BE DELIVERED TO THE ARCHITECT FOR SUBMITTAL TO THE OWNER UPON COMPLETION OF THE WORK.
- 2. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT ACCESS TO THE WORK IN PREPARATION AND PROGRESS WHEREVER LOCATED.
- PROVIDE AND MAINTAIN A WEATHER TIGHT STORAGE CONTAINER FOR USE OF THE CONTRACTOR, THIS STORAGE CONTAINER SHALL BE PAINTED AND IN GOOD PHYSICAL SHAPE, AND PROVIDED WITH WINDOWS WHICH OPERATE, DOORS WITH LOCKS, TABLES, BENCHES, RACKS FOR DRAWINGS. EQUIPMENT IN THE TRAILER IS TO MINIMALLY INCLUDE FIRE EXTINGUISHER, FIRST AID KIT, BOTTLED WATER AND CUPS, AND SHALL ALL BE IN GOOD OPERATING CONDITION.
- CONTRACTOR SHALL PROVIDE TEMPORARY ADEQUATE LIGHT AND POWER SUPPLY FOR CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY ADEQUATE WATER SUPPLY FOR CONSTRUCTION.
- 6. SUPPLY ADEQUATE COOL, PURE DRINKING WATER WITH INDIVIDUAL DRINKING CUPS OR SANITARY BUBBLER FOUNTAIN FOR THE USE OF EMPLOYEES ON THE PROJECT. THE QUALITY OF THE DRINKING WATER SHALL MEET THE STANDARDS FOR PUBLIC WATER SUPPLIES OF THE YAVAPAI COUNTY HEALTH DEPARTMENT.
- PROVIDE A CELLULAR JOB TELEPHONE FOR THE DURATION OF THE PROJECT.
- PROVIDE PROPER SANITARY AND ADEQUATE TOILET FACILITIES FOR THE USE OF ALL WORKMEN EMPLOYED ON THE PROJECT, LOCATED WHERE DIRECTED, AND ENFORCE THEIR USE BY ALL PERSONNEL ON THE PROJECT. ENCLOSE AND WEATHERPROOF TOILETS AND KEEP IN A SANITARY CONDITION AT ALL TIMES. ALSO PROVIDE A TRASH BIN.
- 9. PROVIDE ADEQUATE FIRE EXTINGUISHERS ON THE PREMISES DURING THE COURSE OF CONSTRUCTION, OF THE TYPE AND SIZES RECOMMENDED BY THE NFPA TO CONTROL FIRES RESULTING FROM THE PARTICULAR WORK BEING PERFORMED.
- 10. PROTECT ALL ELEMENTS OF CONSTRUCTION FROM ANY DANGER OF DAMAGE FROM WIND, RAIN, DUST, FROST, FREEZING TEMPERATURES, OR OTHER INFILTRATION OF WEATHER.
- 11. EXERCISE ALL POSSIBLE CARE TO CONTROL EXCESSIVE NOISE AND DUST DURING THE CONSTRUCTION TO KEEP THESE PROBLEMS TO A MINIMUM. TRAFFIC OR CONSTRUCTION AREAS SHALL BE SPRINKLED WITH WATER OR CHEMICALS REQUIRED AND IN ACCORDANCE WITH APPLICABLE COUNTY REQUIREMENTS. CONTRACTOR SHALL SECURE APPROPRIATE DUST PERMITS PRIOR TO SITE WORK BEGINNING.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF CONSTRUCTION, CONSTRUCTION MATERIALS AND EQUIPMENT ON

13. NO SIGNS SHALL BE PERMITTED ON PROJECT WITHOUT EXPRESS APPROVAL OF OWNER. EXCEPT FOR SAFETY SIGNS.

REVISIONS

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way without the written consent o W. Alan Kenson & Associates, P.C

EXPIRES: 6/30.

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October 25th, 2021 JOB NO. **771** 

## **Specifications Continued**

#### **SECTION 016000 - MATERIAL AND EQUIPMENT**

- DELIVER ALL MANUFACTURED MATERIALS IN THE ORIGINAL PACKAGES, CONTAINERS OR BUNDLES (WITH THE SEALS UNBROKEN) BEARING THE NAME OR IDENTIFICATION MARK OF THE MANUFACTURER.
- STORE ALL MATERIALS IN SUCH MANNER AS NECESSARY TO PROPERLY PROTECT IT FROM DAMAGE. MATERIALS OR EQUIPMENT DAMAGED BY HANDLING, WEATHER, DIRT OR FROM ANY OTHER CAUSE WILL NOT BE ACCEPTABLE
- STORE MATERIAL SO AS TO CAUSE NO OBSTRUCTIONS, STORED OFF SIDEWALKS, ROADWAYS AND UNDERGROUND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MATERIAL AND EQUIPMENT FURNISHED UNDER THE CONTRACT.
- WHERE NOT MORE SPECIFICALLY DESCRIBED IN ANY OF THE VARIOUS SECTIONS OF THESE SPECIFICATIONS, WORKMANSHIP SHALL CONFORM TO ALL OF THE METHODS AND OPERATIONS OF BEST STANDARDS AND ACCEPTED PRACTICES OF THE TRADE OR TRADES INVOLVED, AND SHALL INCLUDE ALL ITEMS OF FABRICATION, CONSTRUCTION OR INSTALLATION REGULARLY FURNISHED OR REQUIRED FOR COMPLETION.
- ALL WORK SHALL BE EXECUTED BY MECHANICS SKILLED IN THEIR RESPECTIVE LINES OF WORK.
- WHEN A SPECIFIC MANUFACTURER, TRADE NAME OR MATERIAL IS SPECIFIED, OR INDICATED, IT IS TO ESTABLISH A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. IF THE CONTRACTOR DESIRES TO USE A MANUFACTURER, TRADE NAME OR MATERIAL OTHER THAN THAT SPECIFIED, HE SHALL REQUEST APPROVAL OF SUCH SUBSTITUTION, IN WRITING, TO THE ARCHITECT. ALL SUCH REQUESTS SHALL BE SUBMITTED PRIOR TO ORDERING MATERIALS **SECTION 017000 - PROJECT CLOSE-OUT**
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS WHICH SHALL CLEARLY SHOW ALL DIFFERENCES BETWEEN THE CONTRACT WORK AS DRAWN AND AS INSTALLED FOR ALL WORK, AS WELL AS WORK ADDED TO THE CONTRACT WHICH IS NOT SHOWN ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL SUBMIT A FULLY EXECUTED "CERTIFICATE OF SUBSTANTIAL COMPLETION", AIA DOCUMENT G704 (LATEST EDITION) FOR OWNER'S AND ARCHITECT'S SIGNATURES.
- UPON COMPLETION OF THE INSTALLATION OF ALL WORK, AND PRIOR TO FINAL INSPECTION, FURNISH ELECTRONIC COPIES OF OWNER'S CLOSE-OUT MANUAL. THE OWNER'S MANUAL SHALL INCLUDE: 1) ALL SUBCONTRACTOR'S NAMES, ADDRESS, PHONE NUMBER AND CONTACT, 2) GENERAL SUBCONTRACTOR'S ONE YEAR WARRANTY, 3) ALL SUBCONTRACTOR'S WARRANTIES, 4) COPY OF THE FINAL CERTIFICATE OF OCCUPANCY, 5) |MANUFACTURER'S CUT SHEETS AND PARTS LISTS OF ALL LIGHT FIXTURES, ELECTRICAL GEAR, MECHANICAL AND PLUMBING | EQUIPMENT, 6) MECHANICAL CONTRACTOR'S TEST AND BALANCE REPORT. PROVIDE A TABLE OF CONTENTS AND INDEX TABS FOR EACH HEADING.
- 4. INSTRUCT OWNER'S PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF EQUIPMENT AND SYSTEMS.
- SUBMIT ALL REQUIRED GUARANTEES TO THE OWNER. PROVIDE WRITTEN GUARANTEE IN ACCORDANCE WITH SUBPARAGRAPH 13.2.2 OF THE GENERAL CONDITIONS. IN ADDITION, PROVIDE ALL WRITTEN GUARANTEES OR CERTIFICATES REQUIRED AS SPECIFIED IN THESE SPECIFICATIONS.
- NEITHER FINAL PAYMENT NOR ANY REMAINING RETAINED PERCENTAGE WILL BE PAID TO CONTRACTOR UNTIL ALL OF THE ABOVE PROVISIONS ARE MET AND ALL REQUIREMENTS AS OUTLINED IN THE "GENERAL CONDITION OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201 (LATEST EDITION), PARAGRAPH 9.10.2
- **SECTION 01710 CLEANING**
- SAFETY AND INSURANCE STANDARDS: MAINTAIN PROJECT IN ACCORDANCE WITH THE FOLLOWING SAFETY AND INSURANCE STANDARDS:
- STATE INDUSTRIAL COMMISSION (OF ARIZONA) OSHA FIRE PROTECTION STORE VOLATILE WASTE IN COVERED METAL

CONTAINERS, AND REMOVE FROM PREMISES DAILY.

- POLLUTION CONTROL: CONDUCT CLEAN-UP AND DISPOSAL OPERATIONS TO COMPLY WITH LOCAL ORDINANCES AND ANTI-POLLUTION LAWS. BURNING OR BURYING OF RUBBISH AND WASTE MATERIAL ON THE PROJECT SITE IS NOT PERMITTED DISPOSAL OF VOLATILE FLUID WASTE (SUCH AS MINERAL SPIRITS, OIL, OR PAINT THINNER) IN STORM OR SANITARY SEWER SYSTEMS OR INTO STREAMS OR WATERWAYS IS NOT PERMITTED.
- 4. USE ONLY CLEANING MATERIALS RECOMMENDED BY MANUFACTURER OF SURFACE TO BE CLEANED.
- THE CONTRACTOR SHALL KEEP THE PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY OPERATIONS UNDER THE CONTRACT. AT COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE FROM AND ABOUT THE PROJECT WASTE MATERIALS, RUBBISH, THE CONTRACTOR'S TOOLS. CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.
- 6. IF THE CONTRACTOR FAILS TO CLEAN UP AS PROVIDED IN THE CONTRACT DOCUMENTS, THE OWNER MAY DO SO AND THE COST THEREOF SHALL BE CHARGED TO THE CONTRACTOR.
- PROVIDE FOR THE DISPOSAL OF ALL WASTE PRODUCTS, TRASH, DEBRIS, ETC., AND MAKE NECESSARY ARRANGEMENT FOR LEGAL DISPOSAL OF IT OFF THE SITE.

- 8. MAKE BUILDINGS READY FOR OCCUPANCY IN ALL RESPECTS. LAY HEAVY BUILDING PAPER IN MAIN CIRCULATION AREAS TO PROTECT THE FLOORS UNTIL FINAL INSPECTION AND ACCEPTANCE.
- ALL EXISTING IMPROVEMENTS, INSIDE OR OUTSIDE THE PROPERTY WHICH ARE DISTURBED, DAMAGED OR DESTROYED BY THE WORK UNDER THE CONTRACT SHALL BE RESTORED TO THE CONDITION IN WHICH THEY ORIGINALLY WERE, OR TO THE SATISFACTION OF THE ARCHITECT.

#### DIVISION 5 - METALS

#### **SECTION 05500 - MISCELLANEOUS METALS**

- THE TYPES OF MISCELLANEOUS METAL ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- LOOSE BEARING PLATES MISCELLANEOUS FRAMING AND SUPPORTS
- MISCELLANEOUS STEEL ANGLE EDGES AT FLOOR PITS EXTERIOR CANOPIES
- STEEL PIPE BOLLARDS STEEL SWING GATES
- 2. COMPLY WITH THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS:
  - 2.1 AISC 'SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS,'
  - INCLUDING 'COMMENTARY OF THE AISC SPECIFICATIONS'. 2.2 AISC 'SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS'.
  - 2.3 AWS 'CODE FOR WELDING IN BUILDING CONSTRUCTION. 2.4 ASTM A-6 'GENERAL REQUIREMENTS FOR DELIVERY OF ROLLED STEEL PLATES, SHAPES, SHEET PIPING AND BARS FOR STRUCTURAL USE'.
- USE MATERIALS OF REQUIRED SIZE AND THICKNESS TO PRODUCE ADEQUATE STRENGTH AND DURABILITY OF THE FINISHED PRODUCT FOR THE INTENDED USE.
- 4. SHOP PAINT MISCELLANEOUS METAL WORK, EXCEPT THOSE MEMBERS OR PORTIONS OF MEMBERS TO BE EMBEDDED IN CONCRETE OR MASONRY AND SURFACES AND EDGES TO BE FIELD WELDED. APPLY ONE SHOP COAT OF METAL PRIMER PAINT TO FABRICATED METAL ITEMS, EXCEPT APPLY 2 COATS OF PAINT TO SURFACES WHICH ARE INACCESSIBLE AFTER ASSEMBLY OR ERECTION. PRIMER TO BE TNEMEC 10-1009.

#### **DIVISION 6 - WOOD & PLASTIC**

#### **SECTION 06600 - ARCHITECTURAL MILLWORK**

- ALL MILLWORK SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION 400/1600 'CUSTOM GRADE' OF QUALITY STANDARDS AS ESTABLISHED BY THE ARCHITECTURAL WOODWORKERS INSTITUTE.
- ALL CASEWORK MEMBERS ARE TO BE 3/4" THICK UNLESS NOTED OTHERWISE
- ALL CASEWORK TO HAVE HIGH PRESSURE LAMINATE FINISH WITH REVEAL OVERLAY DESIGN, UNLESS DETAILED OTHERWISE ON PLANS. ALL EXTERIOR EXPOSED SURFACES TO BE NEMA LD-3, GRADE GP-28, UNLESS DETAILED OTHERWISE ON PLANS. BACKING SHEET TO BE NEMA LD-3, GRADE CL-20. ALL CONCEALED INTERIORS SHALL BE WHITE MELAMINE.
- ALL COUNTERTOPS SHALL BE SOLID SURFACE MATERIAL, 3/4" THICK. PROVIDE ALL AVAILABLE SAMPLES TO OWNER FOR APPROVAL. LEADING EDGES ARE TO BE SQUARE, 1 1/2" THICK.
- 5. DRAWER BOX SIDES ARE TO BE 1/2" WHITE MELAMINE. DRAWER BOX BOTTOMS ARE TO BE 1/4" WHITE MELAMINE.
- SHELVES UNDER 36" WIDE SHALL HAVE 3/4" SHELVES. CABINETS OVER 36" WIDE SHALL HAVE 1" SHELVES. 7 HARDWARE:
  - 7.1 DRAWER AND CABINET PULLS ARE TO BE WIRE CHROME PLATED (MATT) WITH 4" HOLE SPACING. PROVIDE A SINGLE PULL AT EACH DRAWER OR DOOR.
  - 7.2 HINGES ARE TO BE BLUM 'CLIP TOP' 120° SELF CLOSING CONCEALED HINGE WITH DULL CHROME FINISH, PROVIDE 2
  - HINGES PER DOOR. 7.3 SHELF SUPPORTS SHALL BE 5MM DUAL PIN LOCKING FOR 3/4" TO 1" SHELF. CLEAR COLOR, RATED FOR 500 LBS.
  - 7.4 DRAWER GUIDES AT FILE DRAWERS SHALL BE ACCURIDE NO. AC3832-20. FULL EXTENSION. 100 LB CAPACITY. BOX DRAWER SLIDES. DRAW GUIDES AT ALL OTHER DRAWERS IS TO BE BLUM 230M5000 BOTTOM MOUNTED, SELF-CLOSING, 75 LB. CAPACITY, 3/4 EXTENSION.
  - 7.5 TRASH GROMMETS SHALL BE MODEL NO. TM1PSS AS MANUFACTURED BY DOUG MOCKETT & COMPANY INC. GROMMET IS 6" DIAMETER x 1" POLISHED STAINLESS STEEL.
  - 7.6 PLASTIC COUNTERTOP GROMMETS: TO BE MODEL #91041 AS MANUFACTURED BY ROCKLER, WHITE. EXACT LOCATION OF GROMMETS IS TO BE DETERMINED BY OWNER IN FIELD AFTER COUNTERTOP IS INSTALLED.
- 8. FURNISH AND INSTALL ALL ITEMS OF CASEWORK HARDWARE, INCLUDING PULLS, DRAWER GUIDES, PIVOT HINGES, SHELF STANDARDS AND LOCKS.
- ARCHITECTURAL WOODWORK SHALL BE DELIVERED TO THE JOBSITE ONLY AFTER ALL PAINTING, WET WORK, GRINDING, AND SIMILAR OPERATIONS ARE COMPLETED.
- 10. CONTRACTOR SHALL EMAIL PDF SHOP DRAWINGS OF ALL MILLWORK AND COUNTERTOPS WITH FULL DETAILS. HARDWARE CUT SHEETS, SAMPLES, AND SPECIFICATIONS TO ARCHITECT FOR REVIEW PRIOR TO ORDERING MATERIALS.

## **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

### **SECTION 07210 - BUILDING INSULATION**

INSULATION MATERIALS SHALL BE FLEXIBLE FIBERGLASS BATTS OR BLANKETS, WITH OR WITHOUT FACINGS, AS CALLED OUT ON PLANS, ALL COMPOSITE MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS TESTED IN ACCORDANCE WITH ASTM E84 U.L. 723

- 2. PROVIDE INSULATION AS FOLLOWS: 2.1 REFER TO WALL TYPES SCHEDULE AND BUILDING SECTIONS / DETAILS.
- CUT AND FIT INSULATION MATERIALS AROUND PIPES, CONDUITS, OUTLET BOXES, ETC., AS NECESSARY TO MAINTAIN THE INTEGRITY OF THE INSULATION. WHERE PIPES ARE INSTALLED IN SPACES TO RECEIVE INSULATION, PLACE INSULATION BETWEEN EXTERIOR WALL AND THE PIPE, COMPRESSING INSULATION AS NECESSARY.
- AT WALL AND CEILING AREAS INSTALL INSULATION BETWEEN FRAMING MEMBERS WITH FLANGES CONTINUOUSLY TIGHT AGAINST FRAMING MEMBERS AND ENDS TIGHTLY BUTTED.

#### **SECTION 07900 - CAULKING AND SEALANTS**

- ALL NEW EXTERIOR AND INTERIOR SEALANT SHALL BE DOW CORNING 795, UNLESS NOTED OTHERWISE
- PRIMER: WHERE REQUIRED, SHALL BE USED AS PER DOW CORNING'S WRITTEN INSTRUCTIONS. THE PRIMER SHALL HAVE BEEN TESTED FOR NON-STAINING CHARACTERISTICS AND DURABILITY ON SAMPLES OF ACTUAL SURFACES TO BE SEALED.
- CONTRACTOR SHALL USE CLOSED CELL POLYETHYLENE BACKER RODS AS A JOINT BACKING TO CONTROL DEPTH OF SEALANT BEAD. WHERE DEPTH OF JOINT WILL PREVENT USE OF JOINT BACKING, AN ADHESIVE BACKED POLYETHYLENE TAPE (BOND BREAKER TAPE) SHALL BE INSTALLED TO PREVENT THREE SIDED ADHESION. JOINT BACKING SHALL BE DRY AT THE TIME OF SEALANT APPLICATION.
- SURFACES MUST BE SOUND, CLEAN AND DRY. ALL RELEASE AGENTS, EXISTING WATERPROOFING, DUST, LOOSE MORTAR, LAITANCE, PAINTS, OR OTHER FINISHES MUST BE REMOVED. THIS SHALL BE ACCOMPLISHED WITH A THOROUGH WIRE BRUSHING. GRINDING, SANDBLASTING OR SOLVENT WASHING, DEPENDING ON THE CONTAMINATION.
- 5. PROVIDE CAULKING AT THE FOLLOWING LOCATIONS. THIS SCHEDULE IS NOT TO BE CONSTRUED TO BE COMPLETE. PROVIDE CAULKING AT OTHER AREAS AS INDICATED.
- 5.1 PERIMETER OF ALL DOOR AND WINDOW FRAMES, INTERIOR AND EXTERIOR. COLOR TO MATCH DOOR FRAME COLOR. 5.2 PERIMETER OF ALL ALUMINUM SECTIONS, INTERIOR AND EXTERIOR. COLOR TO MATCH ALUMINUM FRAME COLOR.
- 5.3 AT BASE OF WATER CLOSETS AT FLOOR, COLOR TO BE WHITE TO MATCH WATER CLOSET.
- 5.4 AT ALL WALL HUNG PLUMBING FIXTURES, COLOR TO BE WHITE TO MATCH FIXTURE.
- 5.5 ALL NEW JOINTS AT ABUTTING DISSIMILAR BUILDING
- 5.6 JOINTS IN EXPOSED MASONRY SURFACES, INTERIOR AND
- 5.7 TOP EDGE OF ALL FRY-REGLET COUNTERFLASHING
- 5.8 CONTROL, COLD, EXPANSION AND SAW JOINTS IN CONCRETE SURFACES, INTERIOR AND EXTERIOR. INSTALL SEALANT AT ALL INTERIOR CONCRETE FLATWORK JOINTS

#### WHICH DO NOT RECEIVE A FLOOR COVERING. DIVISION 8 - DOORS, WINDOWS, GLASS

SECTION 08110 - HOLLOW METAL FRAMES

- FRAMES TO MEET SPECIFIED REQUIREMENTS OF SDI AND/OR NAAMM FOR UNIT WELDED FRAMES.
- CONTRACTOR SHALL ORDER ALL FRAMES FOR MASONRY WALLS IN A TIMELY MANNER SO THAT FRAME CAN BE INSTALLED WHILE MASONRY WALLS ARE BEING BUILT. FRAMES INSTALLED LATER WITH EXPANSION BOLTS WILL NOT BE ALLOWED.
- ALL EXTERIOR FRAMES, WHERE OCCUR, SHALL BE 14 GAUGE GALVANIZED STEEL WITH CORNERS MITERED AND WELDED.
- ALL INTERIOR FRAMES SHALL BE 14 GAUGE SHEET STEEL WITH CORNERS MITERED AND WELDED.
- ALL HOLLOW METAL FRAMES IN MASONRY WALLS ARE TO BE SOLIDLY GROUTED.
- 6. PREPARE FRAMES TO RECEIVE MORTISED TYPE HARDWARE AND PROVIDE HARDWARE REINFORCING AS REQUIRED BY SDI.
- INSTALL METAL FRAMES AT LOCATION INDICATED, SET SQUARE AND PLUMB WITH THE BUILDING LINES. ANCHORING SECURELY TO CONSTRUCTION.
- ANCHOR EACH JAMB LEG WITH SILL CLIP WITH EXPANSION BOLT OR 'RAMSET' FASTENERS.
- ANCHOR EACH JAMB WITH 3 ANCHORS AT MASONRY AND 4 ANCHORS AT GYPSUM BOARD.

### **SECTION 08120 - ALUMINUM ENTRANCE DOORS & FRAMES**

- STANDARDS' EXCEPT AS OTHERWISE INDICATED. THE REQUIREMENTS FOR ALUMINUM DOORS AND FRAMES. AND THE TERMINOLOGY USED IN THIS SECTION. ARE THOSE OF NAAMM. AAMA AND AA AND IN PARTICULAR, THOSE OF THE 'ENTRANCE MANUAL' BY NAAMM.
- 2. MANUFACTURER: THESE SPECIFICATIONS ARE BASED ON THE ALUMINUM WALL SYSTEMS AS MANUFACTURED BY ARCADIA. INC. OR APPROVED EQUAL. MANUFACTURER SHALL PROVIDE FULL SHOP DRAWINGS, DETAILS, AND LOAD TABLES TO ARCHITECT, PRIOR TO ORDERING OF MATERIALS.
- EXTERIOR WINDOW FRAMING SYSTEM: PROVIDE AND INSTALL AG451 SERIES 2"x 4-1/2" CENTER GLAZED SYSTEM FOR 1" GLASS.
- 4. INTERIOR WINDOW FRAMING SYSTEM: PROVIDE AND INSTALL SERIES AR450, 2"x4-1/2" CENTER GLAZED SYSTEM FOR 1/4" GLASS.
- FRAMING MEMBERS, TRANSITION MEMBER, MULLIONS, ADAPTERS AND MOUNTINGS SHALL BE EXTRUDED OF ALUMINUM ALLOY AND TEMPER CONSISTENT WITH THE METHOD OF MANUFACTURE. THESE MEMBERS SHALL BE OF 6063-T5 EXTRUDED ALUMINUM ALLOY (ASTM B221 - ALLOY G.S. LOA-T5).

- 6. EXTERIOR AND INTERIOR ALUMINUM DOORS SHALL BE SERIES MS362HD HEAVY DUTY MEDIUM STILE, OFFSET HUNG, COMPLETE WITH ALL HARDWARE AS SPECIFIED BELOW, AS MANUFACTURED BY ARCADIA, INC. BOTTOM RAIL SHALL BE 10" HIGH TO COMPLY WITH ADA REQUIREMENTS. EXTERIOR GLAZING SHALL BE 1" INSULATED TEMPERED GLASS, TO MATCH GLASS USED IN ADJACENT WALL SYSTEM. EXTERIOR DOORS SHALL BE PROVIDED WITH FULL WEATHER-STRIPPING AT JAMBS AND BOTTOM RAIL. DOOR FINISH IS TO MATCH THE ALUMINUM FRAMES. THRESHOLD WIDTH IS TO MATCH THE FRAME WIDTH. THRESHOLD SHALL MEET ADA REQUIREMENTS.
- HARDWARE SHALL BE FURNISHED AND INSTALLED IN DOORS BY THE DOOR MANUFACTURER, UNLESS NOTED OTHERWISE. ALL HARDWARE FINISHES, UNLESS NOTED OTHERWISE, ARE TO BE FINISHED TO MATCH ALUMINUM CLEAR ANODIZED FINISH. GLAZING SUBCONTRACTOR SHALL COORDINATE WITH THE HARDWARE SUPPLIER AND SHALL PROVIDE KEYED CYLINDERS TO MATCH WHAT IS BEING USED IN THE REMAINDER OF THE DOORS.
- 8. HARDWARE SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, SECTION 4.13.9.
- 9. COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR THE INSTALLATION OF ALUMINUM DOORS AND FRAMES.
- 10. FABRICATE EXTERIOR DOOR AND FRAME UNITS TO WITHSTAND THE WIND PRESSURE LOADING SHOWN OR, IF NOT SHOWN, 20 LBS. PER SQ. FT. ON THE GROSS AREA OF THE FRAMES, DOORS, PANELS AND GLASS, ACTING INWARD AND ALSO ACTING OUTWARD. MAXIMUM DEFLECTION SHALL BE 1/175 OF THE SPAN AND ALLOWABLE STRESS WITH A SAFETY FACTOR OF 1.65.
- 11. FABRICATE INTERIOR ALUMINUM FRAME UNITS TO WITHSTAND A LATERAL LOADING OF 5 P.S.F. INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING ALL BRACING, SUPPORTS, FRAMING, ETC. IN ORDER THAT ALL ALUMINUM FRAME UNITS CAN RESIST 5 P.S.F. EVEN IF THESE ITEMS ARE NOT DETAILED ON THE PLANS.
- 12. WATER INFILTRATION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 331. NO WATER PENETRATION AT A TEST PRESSURE OF 6.24 P.S.F.
- 13. | SET UNITS PLUMB, LEVEL AND TRUE IN LINE, WITHOUT WARP OR RACK OF FRAMES, DOORS OR PANELS. ANCHOR SECURELY IN PLACE. SEPARATE ALUMINUM AND OTHER CORRODIBLE METAL SURFACES FROM SOURCES OF CORROSION OR ELECTROLYTIC ACTION AT POINTS OF CONTACT WITH OTHER MATERIALS.
- 14. | SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF ENTRANCES AND STOREFRONTS, INCLUDING THE FOLLOWING; | ELEVATIONS, DETAIL SECTION OF TYPICAL COMPOSITE MEMBERS HARDWARE CUT SHEETS AND MOUNTING HEIGHTS ANCHORAGE AND REINFORCEMENTS, GLAZING DETAILS. ALSO INCLUDE DATA COMPLETE DATA SHOWING THAT ALL EXTERIOR FRAMING SYSTEMS WILL RESIST WIND LOADING.
- 15. WARRANTIES: SUBMIT A WRITTEN WARRANTY, EXECUTED BY THE CONTRACTOR, INSTALLER, AND MANUFACTURER, AGREEING TO REPAIR OR REPLACE UNITS WHICH FAIL IN MATERIALS OR WORKMANSHIP WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION.

### SECTION 08200 - WOOD DOORS

- PROVIDE WOOD DOORS AND RELATED ITEMS IN ACCORDANCE WITH AWI 'QUALITY STANDARDS'. SECTION 1300 AND COMMERCIAL STANDARDS CS-236. REFER TO MATERIALS SCHEDULE AND DETAILS.
- FURNISH MANUFACTURER'S STANDARD 'LIFE OF THE INSTALLATION' GUARANTEE FOR ALL INTERIOR DOORS.
- STORE DOORS FLAT ON A LEVEL SURFACE IN A CLEAN, DRY, WELL-VENTILATED AREA, PROTECTED FROM SUNLIGHT. DOORS SHALL BE CONDITIONED TO THE AVERAGE PREVAILING HUMIDITY OF THE JOBSITE BEFORE INSTALLATION, HANDLE DOORS WITH CLEAN GLOVES. DO NOT DRAG DOORS ACROSS ONE ANOTHER OR ACROSS OTHER SURFACES.

5. INSTALLATION:

- 5.1 INSTALL DOORS IN FRAMES WHERE INDICATED, HINGE DOORS WITH CLEARANCE OF NOT MORE THAN 3/32" AT EACH SIDE. AND HEAD: CLEARANCE AT BOTTOM 1/2" OR AS REQUIRED FOR CARPETING OR THRESHOLD. MORTISE, DRILL OR OTHERWISE WORK DOORS FOR FINISH HARDWARE AS SCHEDULED, BEVELING LOCK EDGE TO ALLOW FOR PROPER CLEARANCE IN OPENING AND CLOSING DOORS. REMOVE DOORS AFTER FITTING FOR FINISHING, RE-HANG AFTER FINISHING.
- 5.2 INSTALL FINISH HARDWARE IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE HARDWARE SCHEDULE. USING ONLY MECHANICS SKILLED IN THIS TYPE OF WORK. DO ALL MORTISING FOR HARDWARE BEFORE PAINTING. DO NOT INSTALL HARDWARE UNTIL FINISHING OF DOOR IS COMPLETED. KEEP ALL HARDWARE FREE FROM SCRATCHES, DENTS OR OTHER DEFACEMENTS.

5.3 THE FINISH HARDWARE SHALL BE ACCURATELY, FITTED AND INSTALLED ON PROPERLY PREPARED SURFACES IN CONFORMITY WITH THE MANUFACTURER'S INSTRUCTIONS AND TEMPLATES. UPON COMPLETION, THE FINISH HARDWARE SHALL BE IN PERFECT CONDITION AND IN PERFECT WORKING ORDER.

REVISIONS

These drawings are the property o W. Alan Kenson & Associates P.0 way without the written consent o W. Alan Kenson & Associates, P.C

EXPIRES: 6/30.

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October 25th, 2021 JOB NO. **771** 

## Specifications Continued

#### **SECTION 08700 - FINISH HARDWARE**

- 1. THE FINISH HARDWARE SUPPLIER SHALL, PRIOR TO DELIVERY, PREPARE AND SUBMIT TO THE ARCHITECT WITHIN 10 DAYS AFTER AWARD OF THE FINISH HARDWARE CONTRACT, 1 COPY OF A COMPLETE HARDWARE SCHEDULE FOR HIS REVIEW. THE SCHEDULE SHALL FOLLOW REQUIREMENTS AND SHALL INDICATE DOOR NUMBER AND LOCATION, QUANTITY, MANUFACTURER'S NUMBER, SIZE AND FINISH, ALSO FURNISH 2 BROCHURES OF HARDWARE CUTS OF ALL ITEMS USED.
- 2. THE MAXIMUM DOOR-OPENING FORCE (IN POUNDS-FORCE) FOR PUSHING OR PULLING OPEN INTERIOR HINGED DOOR SHALL BE 5
- 3. ALL HARDWARE SHALL MEET HANDICAPPED ACCESSIBILITY REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT.
- 4. LOCKSETS AND LATCHSETS SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
- 5. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- 6. STRIKES SHALL BE EXTENDED LIPS WHERE REQUIRED TO PROTECT TRIM FROM BEING MARRED BY LATCH BOLT. WROUGHT BOXES SHALL BE FURNISHED WITH ALL STRIKES.
- . KEYS AND KEYING:
- 7.1 ALL CYLINDERS FOR THIS PROJECT TO BE SET TO NEW MASTER KEY.
- 7.2 ALL CYLINDERS TO BE CONSTRUCTION MASTER KEYED.
- 7.3 MASTER KEY SETS AND INDIVIDUAL KEYING OF LOCKS WILL BE DETERMINED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING WITH THE OWNER'S REPRESENTATIVE TO DETERMINE THE EXACT KEYING THAT WILL BE REQUIRED.
- 7.4 FURNISH 6 EACH CONSTRUCTION MASTER KEYS TO BE DELIVERED WITH LOCKSETS TO CONTRACTOR. FURNISH 3 EACH MASTER KEY SETS. FURNISH 3 EACH CHANGE KEYS FOR EACH CYLINDER AND LOCKSET.
- 7.5 ALL GRAND MASTER, MASTER, AND CHANGE KEYS SHALL BE PROPERLY TAGGED FOR EASY IDENTIFICATION AND DELIVERED TO AN AUTHORIZED RECIPIENT AS DIRECTED BY THE ARCHITECT.
- 8. PROVIDE A WRITTEN GUARANTEE FOR ALL HARDWARE FOR A PERIOD OF 2 YEARS FROM DATE OF CERTIFICATE OF OCCUPANCY DEFECTS IN MATERIALS AND/OR WORKMANSHIP OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.

#### **SECTION 08800 - GLASS AND GLAZING**

- GLASS AND GLAZING SHALL CONFORM TO CHAPTER 24 OF THE 2018 IBC, AND TO LOCAL CODE REQUIREMENTS. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- 2. U-FACTOR OF GLASS SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 100 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER.
  MANUFACTURER SHALL PROVIDE THIRD PARTY LABORATORY CERTIFICATION TO ARCHITECT, PRIOR TO MANUFACTURING GLASS
- 3. THE SOLAR HEAT GAIN COEFFICIENT (SHGC) AND VISIBLE TRANSMITTANCE (VT) OF GLASS SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 200 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THIRD PARTY LABORATORY CERTIFICATION TO ARCHITECT, PRIOR TO MANUFACTURING GLASS UNITS.
- 4. WATERTIGHT AND AIRTIGHT INSTALLATION OF EACH PIECE OF GLASS IS REQUIRED. EACH INSTALLATION MUST WITHSTAND NORMAL TEMPERATURE CHANGES, WIND LOADING AND IMPACT LOADING.
- 5. THE MAXIMUM PROBABLE BREAKAGE LEVEL SHALL BE 8 LITES PER THOUSAND FOR A 1-MINUTE UNIFORM WIND LOAD DURATION.
- 6. INTERIOR REGULAR PLATE GLASS: CLEAR 1/4" THICK COMPLYING WITH FS-DD-G-451, TYPE 1, CLASS 1, QUALITY Q-3, PLATE OR FLOAT.
- 7. INTERIOR TEMPERED GLASS: CLEAR 1/4" THICK FULLY TEMPERED PLATE GLASS. PERMANENTLY ETCH EACH LIGHT WITH MANUFACTURER'S NAME AND HIS COMPLIANCE WITH ANSI Z97.1.
- 8. EXTERIOR CLEAR LOW-E INSULATING GLASS UNITS: AT ALL (UNLESS NOTED OTHERWISE) WINDOW TYPES AND ALL ALUMINUM/GLASS DOORS PROVIDE PPG INSULATED UNITS, COMPRISED OF AN OUTER LAYER OF 6MM STARPHIRE (TEMPERED WHERE REQUIRED) SOLARBAN 70XL (2) AND AN INNER LAYER OF 6MM (TEMPERED WHERE REQUIRED) CLEAR GLASS, SEPARATED BYA 1/2" AIR SPACE. INSULATING GLASS UNITS SHALL HAVE A SHADING COEFFICIENT OF 0.32 A SHGC OF 0.27 AND A U-VALUE OF 0.26. LABEL EACH UNIT TO SHOW WHICH FACE IS TO BE EXPOSED TO EXTERIOR. PLACE LABEL ON INSIDE FACE. SUBMIT 2 SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING GLASS UNITS.
- 9. INTERIOR GLAZING COMPOUND TO BE POLYMERIZED BUTYL RUBBER AND INERT FILLERS (PIGMENTS), SOLVENT BASED WITH MINIMUM 75% SOLIDS, NON-SAG CONSISTENCY, TACK-FREE TIME OF 24 HOURS OR LESS, PAINTABLE NON-STAINING.
- 10. SETTING BLOCKS TO BE NEOPRENE, EPDM, OR OTHER RESILIENT BLOCKS OF 85 SHORE A DUROMETER HARDNESS, MINIMUM LENGTH 4"
- 11. EXTERIOR GLAZING COMPOUND TO CONFORM TO ASTM C-920, TYPE S, GRADE NS, CLASS 25, USE G.
- 12. GLAZING INSTALLATION IS TO COMPLY WITH THE GANA 'GLAZING MANUAL', 50th ANNIVERSARY EDITION.

#### **DIVISION 9 - FINISHES**

#### SECTION 09250 - GYPSUM WALL BOARD

- ASTM C-840 AND C-754, AND GA-216, INSOFAR AS ANY PORTIONS ARE APPLICABLE, ARE HEREBY MADE A PART OF THIS SPECIFICATION AS THOUGH REPEATED HEREIN. IN CASE OF CONFLICTS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- GYPSUM WALLBOARD:
- 2.1 REGULAR WALLBOARD: TO COMPLY WITH ASTM C-36;
- OR FS SS-L-30D, TYPE III, 5/8" THICKNESS, TAPERED EDGE.

  2.2 MOISTURE-RESISTANT WALLBORAD: TO COMPLY WITH ASTM C-630, GRADE REGULAR, 5/8" THICKNESS, TAPERED EDGE. USE WR BOARD FULL HEIGHT, ON ALL WALLS IN ALL RESTROOMS AND JANITOR'S CLOSET.
- WALLBOARD ACCESSORIES:
- 3.1 CORNER BEAD REINFORCEMENT: USG DUR-A-BEAD, SIZE AS REQUIRED.
- 3.2 METAL EDGE REINFORCEMENT: USG NO. 200-B.3.3 CONTROL JOINTS: USG #093.
- 4. FASTENERS: SELF DRILLING, SELF TAPPING, BUGLE HEAD SCREWS, FOR USE WITH POWER DRIVEN TOOL TYPE S FOR APPLICATION TO LIGHT GAUGE METAL FRAMING, MINIMUM 1", TYPE 9-12 FOR APPLICATION TO HEAVY GAUGE METAL FRAMING (ASTM C-646.
- 5. INSTALLATION SUSPENDED CEILINGS:
- 5.1 EXCEPT WHERE OTHERWISE INDICATED, PROVIDE 1-1/2"
  MAIN RUNNER CHANNELS SPACED ON 4 FOOT CENTERS AND
  METAL FURRING CHANNELS SPACED ON NOT OVER 16"
  CENTERS. MAIN RUNNER CHANNELS TO HAVE HANGER
  WIRES SPACED 48" O.C. ALONG ITS LENGTH AND WITHIN 6"
  OF ENDS. WIRE HANGERS SHALL BE OF SUCH LENGTH SO
  THAT THE LOWER ENDS MAY BE SADDLE TIED OR WRAPPED
  AROUND THE MAIN RUNNERS SO AS TO PREVENT TURNING
  OR TWISTING OF THE RUNNERS.
- 5.2 SECURELY CLIP METAL FURRING CHANNELS TO MAIN RUNNERS USING FURRING CHANNEL CLIPS OR SADDLE TIE WITH 2 STRANDS OF 16 GAUGE TIE WIRE. INSTALL FURRING CHANNEL CLIPS ON ALTERNATIVE SIDES OF THE MAIN RUNNER CHANNEL.
- 5.3 AT LIGHTS OR OTHER OPENINGS THAT INTERRUPT THE MAIN RUNNER OR FURRING CHANNELS REINFORCE GRILLAGE WITH 3/4" COLD-ROLLED CHANNELS, WIRE TIED ATOP AND PARALLEL TO THE MAIN RUNNER CHANNELS.
- 5.4 APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO THE FURRING CHANNELS, WITH ALL ABUTTING ENDS AND EDGES OCCURRING OVER THE WEB SURFACE OF THE FURRING CHANNEL. INSTALL WALLBOARD WITH 5/8" SCREWS SPACED 8" O.C. IN THE FIELD OF THE BOARD, AT ALL BEARINGS, AND ALONG ABUTTING EDGES. INSTALL CONTROL JOINTS AT A MAXIMUM OF 20'-0" O.C., IN EACH DIRECTION.
- 6. INSTALLATION INTERIOR WALLS:
  - 6.1 APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO FRAMING OR FURRING MEMBERS WITH ALL ABUTTING ENDS AND EDGES OCCURRING OVER STUD FLANGES. CUT WALLBOARD NEATLY TO FIT AROUND ALL OPENINGS. WALLBOARD TO EXTEND TO WITHIN 1/4" OF THE FLOOR.
  - 6.2 WHEREVER WALLBOARD TERMINATES AGAINST DISSIMILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT ALL OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
  - 6.3 INSTALL CONTROL JOINT OVER FACE OF WALLBOARD PANELS. CUT END JOINTS SQUARE, BUTT TOGETHER AND ALIGN TO PROVIDE NEAT FIT. ATTACH CONTROL JOINT TO WALLBOARD PER USG RECOMMENDATIONS. LOCATE CONTROL JOINTS AT MAXIMUM 50'-0" O.C. AND IN ACCORDANCE WITH USG GYPSUM CONSTRUCTION HANDBOOK. LATEST EDITION.
  - 6.4 AT METAL STUDS APPLY WALLBOARD USING SCREWS
    SPACED A MAXIMUM OF 12" O.C. IN THE FIELD OF THE BOARD
    AND 12" O.C. ALONG THE ABUTTING END JOINTS.
  - 6.5 WHERE W/R WALLBOARD IS USED, COAT ALL CUT EDGES AND FASTENER HEADS WITH USG SHEETROCK W/R SEALANT. TREAT ALL CUT EDGES, UTILITY HOLES, AND JOINTS, INCLUDING THOSE AT ANGLE INTERSECTIONS PRIOR TO INSTALLATION.
  - 6.6 PROVIDE PERIMETER RELIEF WHERE NON-LOAD-BEARING WALLBOARD PARTITIONS ABUT STRUCTURAL DECKS OR CEILINGS OR VERTICAL STRUCTURAL ELEMENTS. ALLOW NOT LESS THAN 1/4", NOR MORE THAN 1/2" GAP BETWEEN WALLBOARD AND STRUCTURE. FINISH EDGES OF WALLBOARD FACE LAYER WITH SQUARE-NOSE METAL CASING BEAD AND CAULK SPACE BETWEEN CASING BEAD AND STRUCTURE WITH CONTINUOUS SEALANT BEAD. ATTACH WALLBOARD TO STUDS NOT LESS THAN 1/2" BELOW BOTTOM EDGE OF CEILING TRACK FLANGES AND TO FIRST STUD ADJACENT TO VERTICAL TRACKS. DO NOT ATTACH WALLBOARD DIRECTLY TO TRACKS.
  - 6.7 WHERE WALLBOARD PARTITIONS INTERSECT MASONRY WALLS, PROVIDE CONTROL JOINT NO LESS THAN 1/4", NOR MORE THAN 3/8" WIDE BETWEEN WALLBOARD AND MASONRY. FINISH EXPOSED EDGES OF WALLBOARD WITH SQUARE-NOSE METAL CASING BEAD AND CAULK SPACE BETWEEN CASING BEAD AND MASONRY WITH CONTINUOUS SEALANT BEAD.
  - 6.8 INSTALL DRYWALL FULL HEIGHT AT ALL WALLS THAT GO FULL HEIGHT TO ROOF STRUCTURE.

#### 7. FINISHING:

- 7.1 ALL GYPSUM BOARD IS TO BE FINISHED PER GYPSUM ASSOCIATION PUBLICATION GA 216-96., 'RECOMMENDED LEVELS OF GYPSUM BOARD FINISH'.
  7.2 GYPSUM BOARD FINISH IS TO BE LEVEL 3, LIGHT TEXTURE.
- 7.3 APPLY WALL TEXTURE TO ALL EXPOSED WALLS, UPON COMPLETION OF FINISHING SPECIFIED ABOVE, SURFACES SHALL BE FREE OF DUST, DIRT AND OIL BEFORE APPLICATION. CONTRACTOR SHALL VERIFY WITH OWNER WHICH WALLS ARE TO RECEIVE WALL COVERING, IF ANY.
  7.4 FINISH SHALL BE A LIGHT SANTA FE TEXTURE. FURNISH A 3'x3' FINISH SAMPLE FOR OWNER'S APPROVAL BEFORE
- A 3'x3' FINISH SAMPLE FOR OWNER'S APPROVAL BE MATERIALS ARE ORDERED.

#### SECTION 09310 - CERAMIC TILE

- 1. CERAMIC TILE MATERIALS, PREPARATION AND INSTALLATION SHALL CONFORM TO ANSI STANDARDS AND THE PUBLISHED SPECIFICATIONS OF CUSTOM BUILDING PRODUCTS (CBP).
- 2. ALL INSTALLATION MATERIALS (MORTAR, GROUT, MEMBRANES, LEVELING AGENTS, SEALERS, ETC.) USED IN THE PROJECT ARE TO BE MANUFACTURED BY CBP, OR APPROVED EQUAL.
- 3. IT IS SOLELY THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO INSURE THAT THE SUB-FLOOR IS PROPERLY PREPARED PRIOR TO INSTALLATION. SHOULD THE INSTALLING CONTRACTOR FIND THAT THE SUB-FLOOR IS NOT ACCEPTABLE THEN THEY SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR AND THE ARCHITECT, IN WRITING.
- CRACK PREVENTION MEMBRANE: MEMBRANE IS TO BE LIQUID APPLIED REDGARD CRACK PREVENTION AND WATERPROOFING MEMBRANE. CONCRETE MUST BE CURED FOR 28 DAYS. CONCRETE FLOORS SHALL BE MECHANICALLY ABRADED TO ENSURE A GOOD BOND. THE COST OF THIS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL CRACKS EXCEEDING 1/8" SHALL BE TREATED IN ACCORDANCE WITH TCNA F125F. INSTALL MEMBRANE ON ALL FLOOR SLABS THAT RECEIVE FLOOR TILE AT A WET THICKNESS OF 30 MILS. DO NOT USE TO BRIDGE OR COVER OVER EXPANSION, CONTROL, CONSTRUCTION, COLD OR SAW CUTS JOINTS. IN THOSE LOCATIONS INSTALL CRACK BUSTER PRO MEMBRANE. CONTRACTOR SHALL INSTALL MEMBRANE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. IF TILE WILL NOT BE SET IMMEDIATELY AFTER MEMBRANE CURING, PROTECT THE APPLICATION FROM RAIN, DIRECT SUNLIGHT AND INCLEMENT WEATHER FOR 72 HOURS AFTER APPLICATION. IF DELAYS LONGER THAN 72 HOURS ARE EXPECTED, COVER THE AREA WITH FELT PAPER. GREAT CARE SHOULD BE TAKEN TO PREVENT THE APPLICATION FROM BECOMING SOILED OR PUNCTURED DURING AND AFTER APPLICATION.
- 5. MORTAR: MORTAR IS TO BE MEGALITE CRACK PREVENTION MORTAR. SURFACES MUST BE CLEAN, DRY, AND FREE OF DIRT AND OTHER CONTAMINANTS THAT WOULD PREVENT A GOOD BOND. MIX 5.5 QUARTS OF CLEAN WATER PER 30 LB. BAG OF GROUT, PER MANUFACTURER'S WRITTEN INSTRUCTIONS. APPLY MORTAR PER ANSI A108.5 AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW MORTAR TO CURE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 6. GROUT: GROUT IS TO BE POLYBLEND EPOXY SANDED GROUT. MIX 2 QUARTS OF CLEAN WATER PER 25 LB BAG OF GROUT, PER MANUFACTURER'S WRITTEN INSTRUCTIONS. APPLY GROUT PER ANSI A108.10 AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW GROUT TO CURE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. GROUT JOINTS ARE TO BE 1/8" WIDE. SEE FINISH SCHEDULE FOR GROUT COLORS.
- 7. GROUT SEALER: GROUT SEALER IS TO BE TILELAB SURFACEGUARD SEALER. ALLOW GROUT TO CURE FOR 48 TO 72 HOURS BEFORE APPLICATION. PROTECT PAINTED SURFACES. TEST PRODUCT IN AN OBSCURE AREA TO ENSURE DESIRABLE RESULTS. APPLY SEALER TO ALL GROUT JOINTS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. DRYING TIME IS 2 TO 3 HOURS.
- 8. SELF-LEVELING UNDERLAYMENT: FLOOR LEVELING
  UNDERLAYMENT, IF REQUIRED, SHALL BE LEVELLITE
  SELF-LEVELING UNDERLAYMENT. MIX AND INSTALL
  UNDERLAYMENT PER THE MANUFACTURER'S WRITTEN
  INSTRUCTIONS. CONCRETE SURFACE SHALL FIRST BE PRIMED
  WITH LEVELQUIK LATEX PRIMER, INSTALLED PER
  MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW LEVELLITE TO
  DRY FOR 14 HOURS BEFORE INSTALLING FLOOR TILE OVER IT.
- 9. FLOOR TILES: REFER TO MATERIALS SCHEDULE.
- 10. WALL TILES: REFER TO MATERIALS SCHEDULE.
- 11. GROUT SEALER: AFTER LETTING GROUT CURE FOR 72 HOURS, INSTALL TILELAB GROUT SEALER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. SURFACES SHALL BE CLEAN, DRY AND FREE OF WAXES, COATINGS OR FINISHES.
- 12. CONTRACTOR SHALL PROVIDE OWNER WITH A MINIMUM OF TWO UNOPENED PACKAGES OF EACH TYPE AND SIZE OF TILE THAT IS USED ON THE PROJECT.
- 13. INSTALL ALL FLOOR TILES IN ACCORDANCE WITH CBP SYSTEM CF-125A.
- 14. INSTALL ALL WALL TILES IN ACCORDANCE WITH CBP SYSTEM CW243.
- 15. ALL SURFACES THAT ARE TILED SHALL BE TRUE TO PLANE AND HAVE A MAXIMUM VARIATION OF 1/8" IN 8' FOR WALLS. REPORT ALL UNACCEPTABLE SURFACES TO THE CONTRACTOR AND THE ARCHITECT AND DO NOT TILE SUCH SURFACES UNTIL THEY ARE LEVELED ENOUGH TO MEET ABOVE REQUIREMENTS.

- 16. PROVIDE MOVEMENT JOINTS (EXPANSION, ISOLATION, CONSTRUCTION, CONTRACTION, ETC.) IN ALL TILE SURFACES IN ACCORDANCE WITH TCNA METHOD EJ-171. PROVIDE MOVEMENT JOINTS WHERE TILE WORK ABUTS RESTRAINING SURFACES SUCH AS PERIMETER WALLS.
- 17. CLEAN TILE AFTER GROUTING, PER MANUFACTURER'S INSTRUCTIONS, AND PROTECT FROM OTHER TRADES. CURE ALL CERAMIC TILE FLOORS FOR A MINIMUM OF 72 HOURS.
- 18. ALL SURFACES THAT ARE TILED SHALL BE TRUE TO PLANE AND HAVE A MAXIMUM VARIATION OF 1/8' IN 8' FOR WALLS. FOR ALLOWABLE CONCRETE FLOOR LEVEL TOLERANCES SEE SPECIFICATIONS SECTION 03300. REPORT ALL UNACCEPTABLE SURFACES TO THE ARCHITECT AND DO NOT TILE SUCH SURFACES UNTIL THEY ARE LEVELED ENOUGH TO MEET ABOVE REQUIREMENTS.
- 19. CLEAN TILE AFTER GROUTING, PER MANUFACTURER'S INSTRUCTIONS, AND PROTECT FROM OTHER TRADES.

#### SECTION 09500 - ACOUSTICAL TREATMENT - LAY IN

- 2. SUSPENSION SYSTEMS IS TO BE ARMSTRONG PRELUDE XL, 15/16", GRID SYSTEM, FLAT WHITE. WHERE SUSPENSION SYSTEM METES WALLS USE SHADOW MOLDING, FLAT WHITE. SYSTEM SHALL CONFORM TO THE INTERMEDIATE DUTY CLASSIFICATION OF ASTM
- 3. CONTRACTOR SHALL LEAVE OWNER WITH THREE UNOPENED CARTONS OF CEILING TILES.

USE TILE UNITS AS INDICATED IN MATERIALS SCHEDULE.

- 4. INSTALL THE CEILING SUSPENSION SYSTEM PER THE RECOMMENDATIONS OF ASTM C-636. THE 2012 IBC AND ICC REPORT NO. ESR-1308. LOADING OF ANY COMPONENT MAY NOT CAUSE DEFLECTION OF MORE THAN 1/360 OF THE SPAN. INSTALL 2 PROPER TYPE HOLD DOWN CLIPS PER LOCKING CROSS TEE.
- 5. ALL LIGHTING FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.

#### SECTION 09662 - RESILIENT RUBBER BASE

- 1. MOLDED RUBBER COVE BASE (TOP SET OR CARPET) SHALL BE 4" HIGH X 1/8" THICK. PROVIDE 6" HIGH RUBBER BASE IN KITCHEN.
- CONTRACTOR SHALL PROVIDE ALL AVAILABLE ROPPE CORPORATION COLOR SAMPLES TO OWNER FOR APPROVAL
- 3. AFTER PREPARATION OF WALL SURFACES, APPLY ADHESIVE TO BACK OF BASE LEAVING TOP 1/4" FREE OF ADHESIVE. PRESS BASE FIRMLY AGAINST THE WALLS SLIDING HORIZONTALLY INTO PLACE, MAKING SURE TOE IS TIGHT TO THE FLOOR AND AGAINST THE WALL. ROLL THE ENTIRE SURFACE OF THE BASE WITH A HAND ROLLER, AND PRESS THE TOP OF THE BASE AGAINST THE WALL WITH A STRAIGHT EDGE. REMOVE EXCESS ADHESIVE IMMEDIATELY. INSTALL PRE-FORMED CORNERS AT ALL OUTSIDE CORNERS. COPE AT INTERNAL CORNERS. WHERE BASE TERMINATES AT PROJECTIONS, INSTALL END CAPS.

### SECTION 09663 - ALUMINUM FLOOR TRANSITION STRIPS

- 1. ALUMINUM FLOOR TRANSITION STRIPS ARE TO BE MANUFACTURED BY SCHLUTER.
- 2. TO BE AS FOLLOWS:

  CERAMIC TILE TO CONCRETE RENO-RAMP/-K WITH AE FINISH
  CERAMIC TILE TO VCT OR VINYL RENO-U
- 3. INSTALL TRANSITION STRIPS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

### SECTION 09680 - CARPET

- 1. REFER TO MATERIALS, FINISH SCHEDULE AND FLOOR FINISH PLAN FOR LAYOUT.
- 2. INSPECT SURFACES TO RECEIVE CARPET, MAKE TESTS
  RECOMMENDED BY MANUFACTURER, TAKE CORRECTIVE ACTION
  DEEMED NECESSARY OR NOTIFY OWNER IN WRITING OF ANY
  CONDITION WHICH COULD BE DETRIMENTAL TO CARPET
  INSTALLATION, REMOVE ALL FOREIGN AND INCOMPATIBLE
  MATERIALS AND VACUUM CLEAN SURFACES IMMEDIATELY PRIOR
  TO INSTALLATION OF CARPET. FILL CRACKS, CONSTRUCTION
  JOINTS AND OTHER SURFACE IMPERFECTIONS WITH LATEX
  UNDERLAYMENT COMPOUND TROWELED LEVEL WITH ADJACENT
  SURFACE. COMMENCEMENT OF WORK CONSTITUTES
  ACCEPTANCE OF SURFACES AND RESPONSIBILITY FOR THEM.

25646
W. ALAN
KENSONS

VP Signed ONA,

EXPIRES: 6/30/24

REVISIONS

These drawings are the property o

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ECT: Remodel 1 National E 201 N. Mc Prescott, 7

DRAWN BY
L.O.
CHECKED BY

W.A.K.

October 25th, 2021

JOB NO.
771

SHEET

**A7 2** 

SECTION 09310 - CERAMIC TILE

#### SECTION 09900 - PAINTING

- PROVIDE ALL PAINTING AND FINISHING REQUIRED FOR ALL INTERIOR AND EXTERIOR UNFINISHED SURFACES. ALSO PAINT ALL BACKFLOW PREVENTION DEVICES AND SERVICE ENTRANCE SECTIONS, TO MATCH MAIN BUILDING COLOR.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE UNOPENED 5 GALLON BUCKET OF EACH TYPE AND COLOR OF PAINT USED IN THE PROJECT. BUCKETS ARE TO BE CLEARLY MARKED AS TO PAINT TYPE AND COLOR.
- PREPARE A COMPLETE SCHEDULE SHOWING THE MATERIALS
- DELIVER ALL PAINT TO SITE IN MANUFACTURER'S LABELED AND SEALED CONTAINERS LABELS SHALL GIVE MANUFACTURER'S NAME, BRAND, TYPE, BATCH NUMBER, COLOR OF PAINT AND PRINTED DIRECTIONS OF MANUFACTURER.
- BEFORE PAINTING, REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS OR PROVIDE AMPLE PROTECTION OF SUCH ITEMS. ON COMPLETION OF EACH SPACE, REPLACE ABOVE ITEMS. PROTECT ADJACENT SURFACES AS REQUIRED OR DIRECTED.
- PREPARATION, APPLICATION, WORKMANSHIP, COMPLETION, AND ACCEPTANCE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE PROVISIONS OF 'PAINTING SPECIFICATION MANUAL' BY P.D.C.A. FOR TYPE 1 STANDARD JOB. PERFORM ALL WORK USING ONLY EXPERIENCED, COMPETENT PAINTERS. HAND BRUSH OR ROLL WORK EXCEPT WHERE OTHERWISE PERMITTED OR DIRECTED. WHEN COMPLETED, THE PAINTING SHALL REPRESENT A FIRST-CLASS WORKMANLIKE APPEARANCE. APPLY ALL PAINT MATERIALS UNDER ADEQUATE ILLUMINATION.
- ALL COATINGS MUST COMPLY WITH APPLICABLE LOCAL AND FEDERAL REGULATIONS GOVERNING VOLATILE ORGANIC COMPOUNDS. IF THESE SPECIFICATIONS DO NOT MEET THESE STANDARDS THEN CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY.
- PAINT ONLY WHEN SURFACES ARE CLEAN, DRY, SMOOTH AND ADEQUATELY PROTECTED FROM DAMPNESS. EACH COAT OF PAINT SHALL BE WELL BRUSHED ON, WORKED OUT EVENLY AND ALLOWED TO DRY AT LEAST 24 HOURS BEFORE THE SUBSEQUENT COAT IS APPLIED. FINISHED WORK SHALL BE UNIFORM. OF APPROVED COLOR, SMOOTH AND FREE FROM RUNS, SAGS, CLOGGING OR EXCESSIVE FLOODING. MAKE EDGES OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN. WITHOUT OVERLAPPING. WHERE HIGH GLOSS ENAMEL IS USED, LIGHTLY SAND UNDERCOATS TO OBTAIN A SMOOTH FINISH COAT.
- 10. FOR EXTERIOR COLORS REFER TO MATERIALS SCHEDULE.
- 11. AL EXTERIOR MASONRY BUILDING AND SITE WALLS ARE TO BE

- PROVIDE SIGNS AT ALL HANDICAPPED ACCESSIBLE TOILET
- EXTERIOR EXITS SHALL HAVE TACTILE EXIT SIGNS AS INDICATED ON THE PLANS.

### **SECTION 10522 - FIRE EXTINGUISHERS & CABINETS**

- 2018 IBC. IFC, AND NFPA 10, AND APPROVED BY THE CENTRAL ARIZONA FIRE AND MEDICAL AUTHORITY.
- THE MAXIMUM TRAVEL DISTANCE TO A FIRE EXTINGUISHER SHALL
- FIRE EXTINGUISHERS ARE TO BE BY LARSEN'S MANUFACTURING COMPANY, MP5 SERIES (2A-10B:C) WITH #818 WALL BRACKETS. WALL BRACKET MOUNTING IS TO ONLY TO BE USED IN ALL AREAS THAT ARE NOT ACCESSIBLE AND/OR VISIBLE TO THE GENERAL
- AT ALL AREAS THAT ARE ACCESSIBLE AND/OR VISIBLE TO THE GENERAL PUBLIC THE CONTRACTOR SHALL PROVIDE RECESSED FIRE EXTINGUISHER CABINETS, PROVIDED BY LARSEN'S MANUFACTURING COMPANY. CABINETS ARE TO BE ARCHITECTURAL SERIES, MODEL #2409-R1 WITH FULL GLASS DOOR. WALL PROJECTION SHALL NOT EXCEED 2-1/2".

### **DIVISION 26 - ELECTRICAL**

- PROPOSED TO BE USED FOR EACH SURFACE AND SUBMIT SAME FOR REVIEW/APPROVAL BY ARCHITECT BEFORE PAINTING BEGINS.
- INSTRUCTIONS FOR REDUCING. THIN ONLY IN ACCORDANCE WITH

- ALL EXPOSED WATER, GAS, AIR, SPRINKLER, WASTE PIPING, EXPOSED CONDUIT, LIGHTING PANELS, AND TELEPHONE TERMINAL BOXES. EXPOSED DUCTWORK DOES NOT NEED TO BE PAINTED.
- SEALED PER SECTION 07170.

### DIVISION 10 - SPECIALTIES

### **SECTION 10400 - IDENTIFYING DEVICES**

- ROOMS. SIGNAGE SHALL MEET A.D.A. REQUIREMENTS. SIGN SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT A HEIGHT OF 60" ABOVE FLOOR TO THE CENTERLINE OF

- PROVIDE FIRE EXTINGUISHERS AT LOCATIONS AS REQUIRED BY
- NOT EXCEED 75 FEET.

- FIRE EXTINGUISHERS AND CABINETS ARE TO BE MOUNTED SO THAT THEIR TOP IS NOT MORE THAN 5 FEET ABOVE THE FLOOR.

#### **DIVISION 23 - HEATING, VENTILATION AND AIR** CONDITIONING

1. REFER TO MECHANICAL PLANS

1. REFER TO ELECTRICAL PLANS

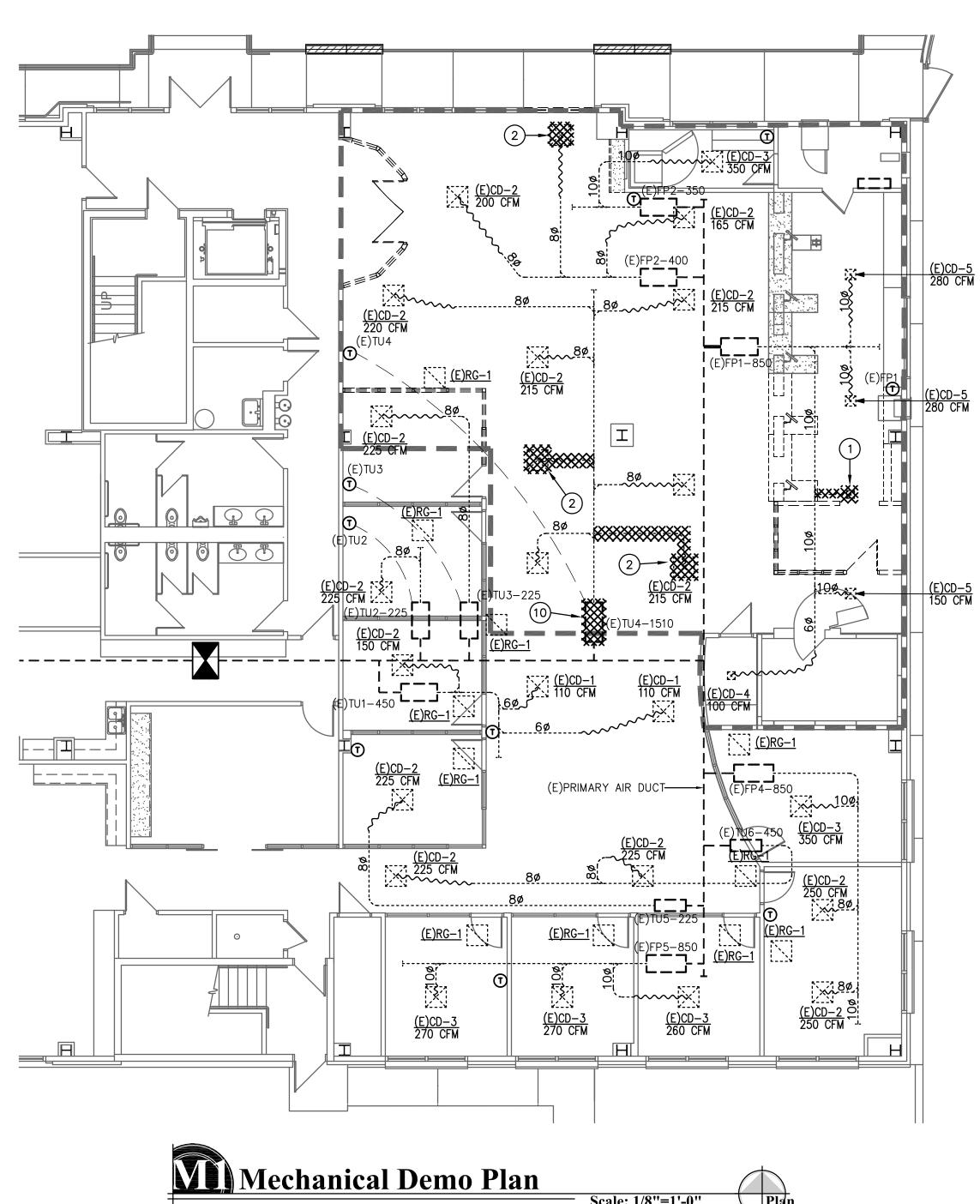
REVISIONS

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DRAWN BY L.O. CHECKED BY W.A.K. October 25th, 2021

JOB NO. **771** 





## **COORDINATION NOTES**

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

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

EXISTING HVAC SYSTEMS SHOWN ARE BASED ON AS BUILT DRAWINGS AND A LIMITED VISUAL INSPECTION, CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL SYSTEMS BEFORE BEGINNING ANY WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND THAT WILL CONFLICT WITH THE WORK SHOWN ON THESE DRAWINGS.

ALL FLEXIBLE AIR DUCT CONNECTORS SHALL BE TESTED IN ACCORD WITH UL 18' ABD LISTED AND LABLED AS CLASS 0 OR CLASS 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.

CONNECTION ON DUCTWORK SHALL BE LISTED AND LABELED BY UL 181A OR 181B TAPES AND MASTICS.

4 - ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND

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.

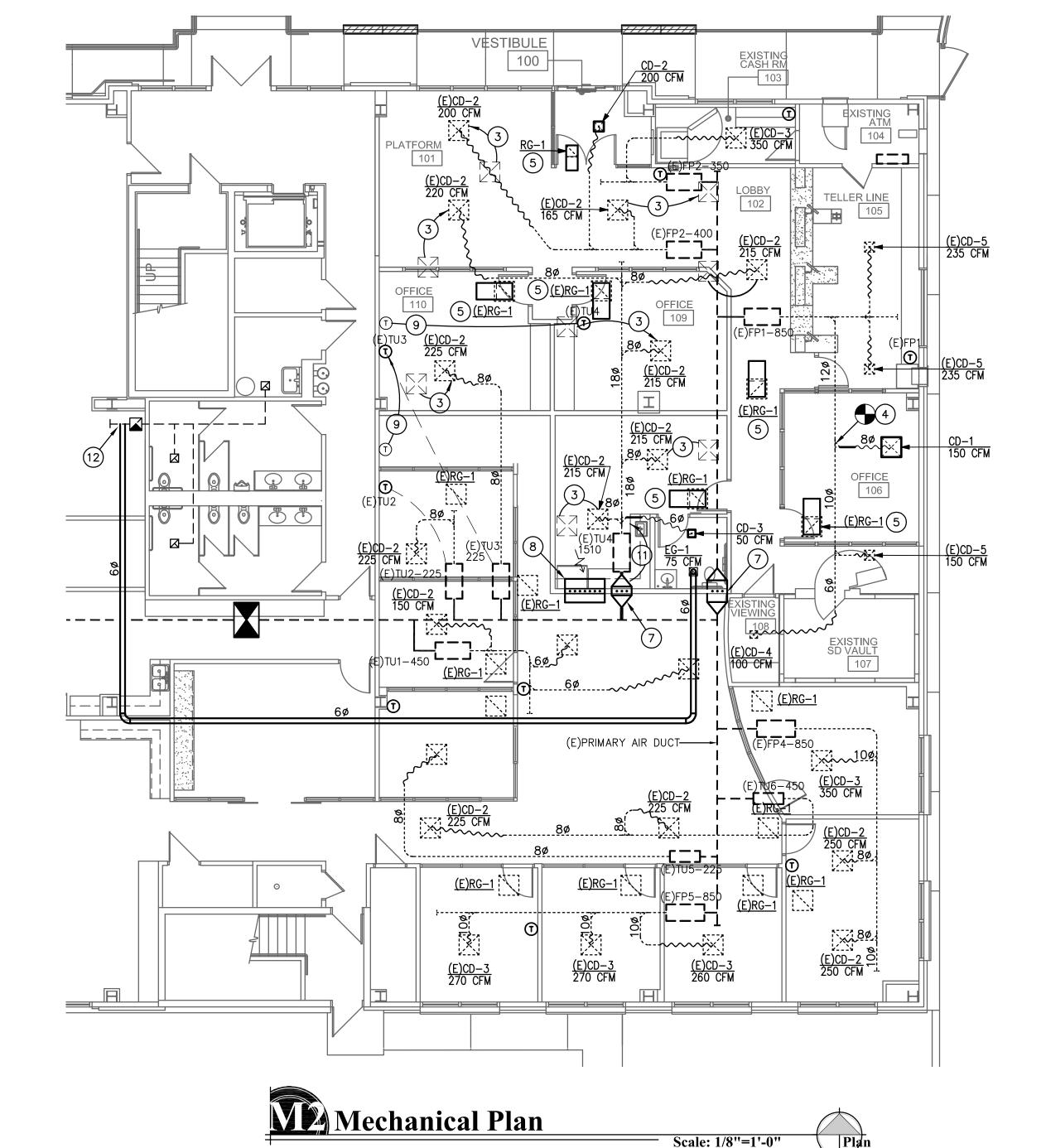
6 - PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.

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.

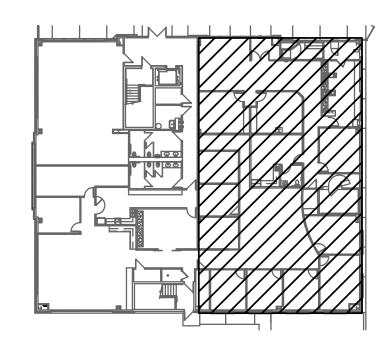
10 - HANGERS FOR SHEET METAL DUCTWORK SHALL BE INSTALLED AS REQUIRED BY 2018 IMC.



## **KEYNOTES**

- 1 REMOVE EXISTING CEILING DIFFUSER AND BRANCH DUCT. PREPARE EXISTING MAIN TO RECEIVE NEW BRANCH DUCT AS SHOWN ON THE MECHANICAL PLAN.
- REMOVE EXISTING CEILING DIFFUSER AND BRANCH DUCT. PATCH EXISTING DUCT MAIN AIR TIGHT. EXISTING DIFFUSER TO REMAIN UNCONNECTED IN CEILING OR TURNED OVER TO LANDLORD.
- 3 RELOCATE EXISTING CEILING DIFFUSER AS SHOWN. PROVIDE NEW OR EXTEND FLEX DUCT AS MAY BE REQUIRED.
- (4) CONNECT NEW CEILING DIFFUSER TO EXISTING SUPPLY DUCT.
- (5) PROVIDE ALL RETURN GRILLES WITH RETURN AIR BOOTS PER DETAIL 3/M2.0
- MODIFY AND TRANSITION EXISTING SUPPLY DUCT THROUGH NEW DEMISING WALL AS REQUIRED TO PROVIDE SECURITY BARS AT WALL OPENING. REFER TO DETAIL 2/M2.0. FIELD VERIFY EXISTING LOCATION AND SIZE.
- 7) PROVIDE SECURITY BARS AT NEW DEMISING WALL OPENING FOR EXISTING PRIMARY AIR DUCT. REFER TO DETAIL 2/M2.0. FIELD VERIFY EXISTING LOCATION AND SIZE.
- 8 NEW 48x20 RETURN TRANSFER DUCT THROUGH NEW WALL. PROVIDE SECURITY BARS AT WALL OPENING. TRANSFER SHALL BE "Z" SHAPED AND LINED FOR SOUND ATTENUATION. LOCATION AND NUMBER OF OPENINGS MAY BE MODIFIED BASED ON EXISTING CONDITIONS. (PROVIDE A MIN. OF 900 SQUARE INCHES)
- 9) RELOCATE EXISTING T-STAT AS SHOWN.
- FIELD VERIFY EXACT LOCATION OF EXISTING TERMINAL UNIT AND REMOVE AND RELOCATE PER KEYNOTE #11 AS REQUIRED FOR CONSTRUCTION OF NEW DEMIING
- MODIFY AND EXTEND EXISTING MEDIUM PRESSURE TERMINAL INLET DUCTWORK AS NEEDED TO RELOCATE EXISTING TERMINAL TO ALL FOR NEW DEMISING WALL CONSTRUCTION. MODIFY UNIT OUTLET DUCT AND EXTEND ANY/ALL CONTROL WIRING AS MAY BE REQUIRED.

(12) EXTEND NEW 60 EXHAUST TO EXISTING EXHAUST RISER AND REBALANCE EXHAUST SYSTEM AS REQUIRED.



**KEY PLAN** 



REVISIONS

W. Alan Kenson & Associates P.0

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DRAWN BY

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CHECKED BY **DATE** July 9th, 2021 JOB NO. 771

## **MECHANICAL SPECIFICATIONS**

GENERAL REQUIREMENTS

GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE 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.

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 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, NECESSARY FOR THE REMODELING, INSTALLATION 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 STATUES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES. B. CITY OR OTHER APPLICABLE BUILDING CODES. C. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS.

D. NATIONAL ELECTRIC SAFETY CODE. E. UNDERWRITER'S LABORATORIES, INC.

F. AMERICAN NATIONAL STANDARDS INSTITUTE. G. AMERICAN SOCIETY FOR TESTING MATERIALS STANDARDS. H. 2018 INTERNATIONAL MECHANICAL CODE WITH

LOCAL AMENDMENTS. I. REGULATIONS, PERMITS, INSPECTIONS: COMPLY WITH ALL APPLICABLE CODED, 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.

### 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 INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES MECHANICAL CODE. OBTAIN AND PAY FOR ALL 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 OF THE "SMACNA" MANUAL AS A GUIDELINE. 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 CONNECTION TO AIR DISTRIBUTION DEVICES, BUT 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 SPACE: & LABOR WARRANTY ON ALL AIR CONDITIONING

## AIR CONDITIONING, HEATING AND VENTILATING

WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT 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 I 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 REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

ALL DUCTWORK TO BE GALVANIZED LOCK FORMING SHEET METAL. SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONSTRUCT ALL DUCTWORK AND FITTINGS TO PROVIDE MINIMUM RESISTANCE AND NOISE LEVELS. DUCTWORK SHALL BE FABRICATED AND INSTALLED BY SKILLED MECHANICS IN A WORKMANLIKE MANNER USING THE LATEST EDITION SEAL ALL SUPPLY AIR DUCTWORK AND RETURN AIR PLATFORMS/PLENUMS AIRTIGHT WITH APPROVED DUCT SEALER. TURNING VANES SHALL BE

FLEXIBLE DUCT MAY BE USED FOR FINAL SHALL NOT EXCEED 8 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-8 INSULATION VALUE.

INSTALLED IN ALL MITERED ELBOWS.

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.

DUCTS IN FLOOR TRUSSES OR OTHER CONDITIONED 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

WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 1 1/2 PCF 2" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 6.0. (ASSUMES 25% COMPRESSION)

#### DUCTS IN CEILINGS OR OTHER UNCONDITIONED

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.

WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 0.75 PCF, 3" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 8.0. (ASSUMES 25% COMPRESSION)

### ACCEPTABLE MANUFACTURERS

"R-VALUE" SHALL BE 6.0.

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.

FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT. DUCT AND PIPE INSULATION: KNAUF. OWENS-CORNING, MANVILLE, CERTAIN-TEED, PPG.

AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE: THE CONTRACTOR SHALL ADJUST AND BALANCE AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED AND UPON REQUEST PROVIDE REPORT OF TEST AND BALANCING TO ARCHITECT/ENGINEER

	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	LAY-IN	STEEL	WHITE	TITUS	TMS	8ø NECK
CD-2	SUPPLY DIFFUSER	12" x 12"	SQUARE CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	8ø NECK
CD-3	SUPPLY DIFFUSER	9" x 9"	SQUARE CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	6ø NECK
EG-1	EXHAUST GRILLE	10" x 10"	SNG. DEFLECT.	NO	SURFACE	STEEL	WHITE	TITUS	350RL	
RG-1	RETURN GRILLE	14" x 14"	SNG. DEFLECT.	NO	SURFACE	STEEL	WHITE	TITUS	350RL	14x14 BOOT

- NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE.

			5561455							
CO	VIRACIOR	SHALL	PROVIDE	SQUARE	10	ROUND	ADAPTERS	5 4.	VERIFY	MΑ
ΔS	<b>REQUIRED</b>	FOR IN	ITA I IATZ	ON					MATCH	FX
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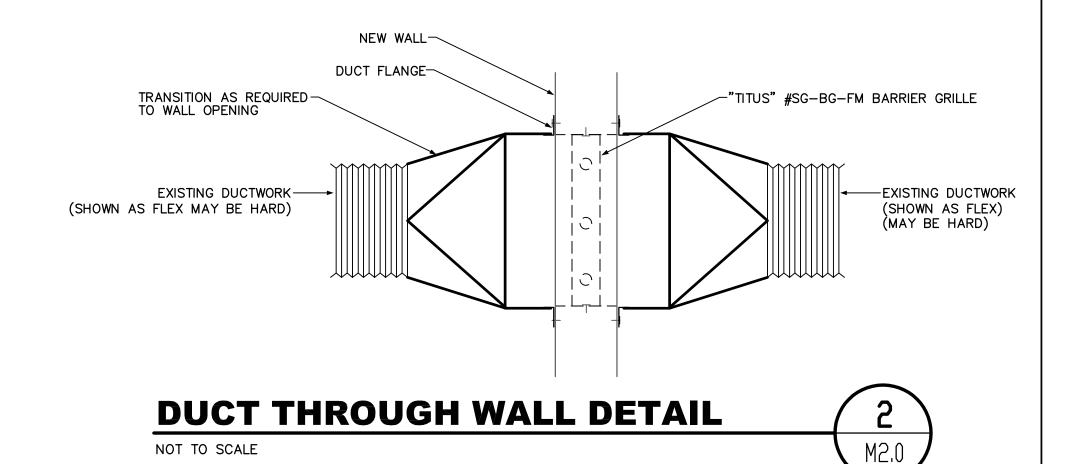
MOUNTING HEIGHT OF GRILLES AND EXACT LOCATION OF ALL

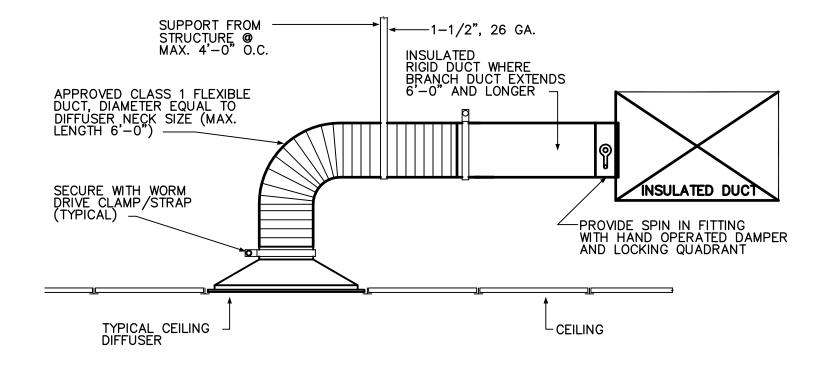
DIFFUSERS TO FIELD COORDINATED AND APPROVED BY OWNER.

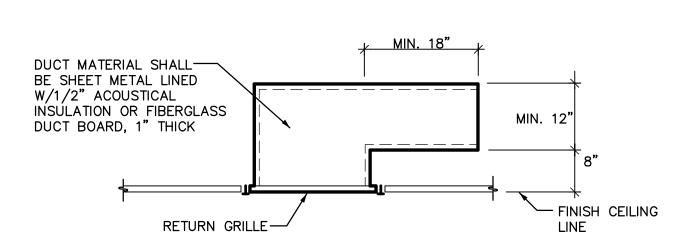
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	oor Air Fraction:			0.0742			rimary A $E_p$	ir Fraction to Zone:					
Occupant Div	ersity:			1		Se		Air Fraction to Zone:					
Uncorrected A	ir Intake:			233 CFN	1	Fr	,	f Supply Air to Zone from C	outside Zone:				
0.11	System Ventilation Efficiency: 0.948					Fraction of Supply Air to Zone from Fully Mixed Primary Air: $F_b$ $1$							
Outdoor Air II $V_{ot}$	ntake:			246 CFM 0.0783	1	Fr		f Outdoor Air to Zone from	Outside Zone:				
								Room Information					
		People Ot	ıtdoor	Air	Area Ot	utdoo	or Air	Breathing Zone Outside	Zone Outdoor	Zone Discharge	Dischaus Outdoor tie	7 V4:1-4:-	
Room	Room Type	Rate (CFM/person)	People P <sub>z</sub>	Total (CFM) $R_p*P_z$	Rate (CFM/ft <sup>2</sup> ) R <sub>a</sub>	ı	Total (CFM) $R_a*A_z$		Airflow (CFM) $V_{oz}$	Airflow (CFM) $V_{dz}$	Discharge Outdoor Air Fraction $Z_d$	Zone Ventilatio Efficiency $E_{vz}$	
break room	Office- Break rooom	5	6.1	31		244	4 15	46	46	430	0.107	0	
Existing cash room	General-Storage	0	(	0	0.12	79.8	8 10	10	10	350	0.0286		
Existing view	General-Storage	0	(	0	0.12	46.6	6	6	6	100	0.06		
Hall	General-Corridors	0	(	0	0.06	190	12	12	12	150	0.08	0	
lobby	Office-Main Entry Lobbies	5	6.2	32	0.06	621	1 38	70	70	800	0.0875	0	
Office 106	Office-Office Space	5	1	6	0.06	201	1 13	19	19	150	0.127	0.	
Office 109	Office-Office Space	5	1.2	2 6	0.06	229	9 14	20	20	215	0.093	0	
Office 110	Office-Office Space	5	1.	6	0.06	228	8 14	20	20	225	0.0889	0.	
rest room	General-Storage	0	(	0	0	52	2 0	0	0	50	0		
Teller line	Office-Office Space	5	1.4	1 8	0.06	287	7 18	26	26	470	0.0553		
	General-Corridors	0		0	0.05	65.2	2 4	4	4	200	0.02		

Zone required a total of 246 CFM OSA, Which Is an Outdoor Air Fraction of 7.8% Balancing contractor to test building air handler to ensure a minimum 7.8% outside air is provided. Balance up to this amount if required. DO NOT BALANCE BUILDING AIR HANDLER for less if measured amount exceeds 7.8%.

NOT TO SCALE







BRANCH	
<b>DUCT TAKE-OFF</b>	DETAIL

NOT TO SCALE

RETURN AIR BOOT DETAIL NOT TO SCALE

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City Comments WMO

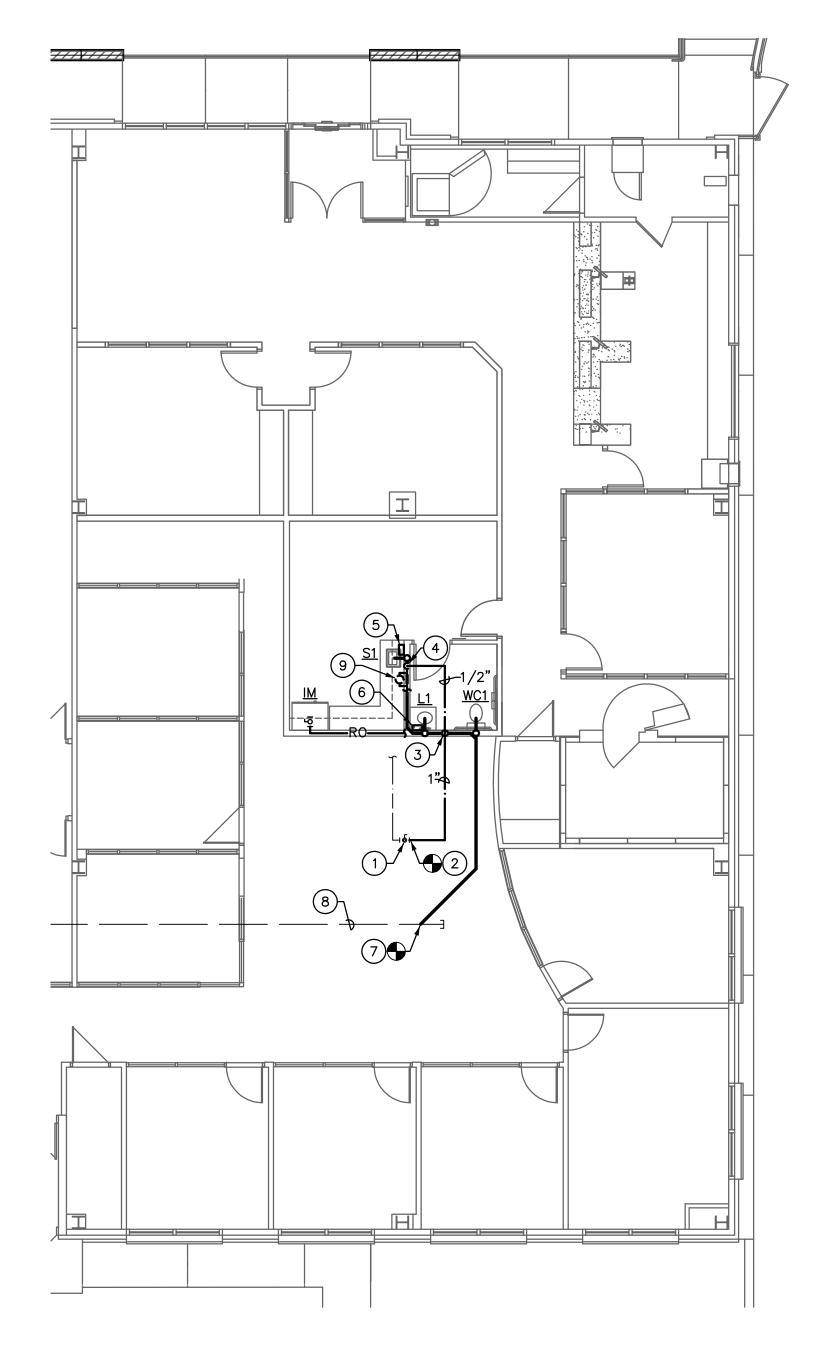
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CHECKED BY **DATE**July 9th, 2021 JOB NO.

DR



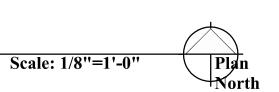
## **KEYNOTES:**

- EXISTING 1-1/4" CAPPED CW LINE, SIZE & LOCATION FROM PREVIOUS PERMITTED TI DRAWINGS. FIELD VERIFY EXACT SIZE & LOCATION.
- 2 CONNECT NEW 1" CW TO EXISTING CW STUBOUT.
- 3 3/4" CW DOWN TO 3/4" HEADER, WITH 1/2" TO WC, 1/2" TO LAV, 1/2" TO WATER HEATER.
- 4 1/2" CW DOWN, WITH 1/2" TO LAV, 1/2" TO WATER HEATER & 1/2" TO RO UNIT.
- 5 TANKLESS ELECTRIC WATER HEATER WH-1. MOUNTED ON WALL BELOW COUNTER. EXTEND 1/2" HW FROM HEATER TO SINK.
- TANKLESS ELECTRIC WATER HEATER

  WH-2. MOUNTED ON WALL BELOW

  COUNTER. EXTEND 1/2" HW FROM HEATER TO LAV.
- 7 CONNECT NEW 3" WASTE TO EXIST. WASTE.
- 8 EXISTING 4" WASTE, ASSUMED SIZE, LOCATION FROM PREVIOUS PERMITTED TI DRAWINGS. FIELD VERIFY EXACT SIZE, LOCATION, INVERT & FLOW DIRECTION.
- 9 OWNER-FURNISHED REVERSE OSMOSIS UNIT- MOUNT BELOW COUNTER, PROVIDE ACCESS PER MFR. FOR SERVICE. EXTEND 1/2" RO LINE OUT OF UNIT, IN WALL TO ICEMAKER BOX. RO PIPING: POLYVINYL CHLORIDE (PVC) TYPE 1, GRADE 1 PVC CONFORMING TO ASTM D-1785. FITTINGS: PVC TYPE 1, GRADE 1 SOCKET FITTINGS CONFORMING TO ASTEM D-2467 AND D-1784.

Plumbing Plan



CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING BACKFLOW PREVENTION DEVICE ON BUILDING WATER SUPPLY. IF NONE EXISTS FURNISH & INSTALL NEW RP TYPE BACKLOW PREVENTER, LINE SIZE, COMPLETE WITH HEATED ENCLOSURE, ALL PER CITY OF PRESCOTT REQUIREMENTS.

CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING BACKWATER VALVE ON BUILDING SEWER. IF NO VALVE EXISTS FURNISH & INSTALL NEW BACKWATER VALVE PER CITY OF PRESCOTT REQUIREMENTS.

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.

**KEY PLAN** 

PLUMBING NOTES:

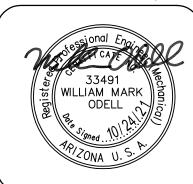
- 1. WATER PIPING LOCATED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE BUILDING INTERIOR SIDE OF THE BLDG. INSULATION.
- 2. EXTERIOR WATER PIPING SHALL BE INSTALLED BELOW FROST LINE.

NOTE ON SLOPE OF WASTE PIPING: SLOPE ALL HORIZONTAL WASTE PIPING AS FOLLOWS: FOR PIPE SIZES UP THROUGH 2", SLOPE AT 1/4" PER FT. FOR PIPE SIZES 3" & ABOVE, SLOPE AT 1/8" PER FT.

PLUMBING LEGEND							
SYMBOL	ABBR.	DESCRIPTION					
	W	DRAIN OR WASTE PIPING					
	٧	VENT PIPING					
	CW	COLD WATER PIPING					
	HW	HOT WATER PIPING					
	BV	BALL VALVE					
Ø	FCO, SCO	FLOOR OR SURFACE CLEANOUT					
Ī	WCO	WALL CLEANOUT					
<u> </u>	VTR	VENT THRU ROOF					

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**PROJEC** 

DR.

CHECKED BY DATE July 9th, 2021 JOB NO. 771

#### PLUMBING SPECIFICATIONS:

#### GENERAL

1..1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc.,

1..2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.

1..3 Record Drawings: Provide a set to the Architect at completion of project.

1..4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.

1..5 Guarantee: One year on labor, material and equipment.

#### PRODUCTS

2..1 Piping:

2..1.1 Water Lines:

2..1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.

2..1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete or in the ground. Wrap lines below concrete floors with 20 mils of polykon tape.

2..1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.

2..1.1.4 Plastic: If permitted by Administrative Authority, IAPMO approved, NSF-61 listed, crosslinked polyethylene (PEX) tubing, equal to Wirsbo "AQUAPEX" system is acceptable for potable water piping not set in or under concrete or in the ground.

2..1.2 Sanitary Waste and Vent Lines:

2..1.2.1 Cast Iron conforming to CISPI Standard 301-95 and ASTM A-888 for all no-hub pipe and fittings installed above and below grade.

2..1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A-120 for all vent lines 2-1/2" or smaller.

2..1.2.3 Fittings (Waste and Vent System, no—hub cast iron): No—hub cast iron drainage pattern fittings conforming to CISPI #301-95.

2..1.2.4 Fittings (Waste and Vent, galvanized steel): Threaded cast iron fittings conforming to

2..1.2.5 Couplings (Waste and Vent, above and below grade): Double band, stainless steel couplings conforming to CISPI 310-95, with neoprene gasket conforming to ASTM Standard C564 (NOTE: Screened stainless shield is not approved).

2..1.2.6 Plastic: Subject to Owner approval, PVC piping conforming to ASTM D-2665-88 is acceptable for sanitary waste piping installed below grade or slab. Fittings: Drainage fittings to match pipe.

2..2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.

2...3 Pipe Insulation: Use fiberglass premolded insulation with all—service jacket, minimum density of 3.5 pcf. Provide an additional 8—ounce canvas jacket with Arabol finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long rigid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:

Domestic Hot Water Supply Lines:

Mains and horizontal branches — 1" thickness. Drops in walls and partitions -1/2" thickness.

#### 2..4 Valves:

2..4.1 Check Valves: Milwaukee #1509, 125#, bronze body, solder joint check valve with horizontal bronze disc for all valves up to 2" size. Milwaukee #F2974, 125#, iron body, bronze trimmed, flanged horizontal check valve for all valves larger than 2" size.

2..4.2 Shutoff Valve: Milwaukee BB1-350 bronze body, solder joint valve for all lines up through 2..5 Cleanouts:

2..5.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel-bronze top.

2..5.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with

2..5.3 Interior Finished Walls: J.R. Smith 4532.

2..5.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.

2..5.5 Provide all cleanouts with heavy threaded bronze plugs.

2..6 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and

Plumbing Fixtures: American Standard, Kohler, Eljer.

Stainless Steel Sinks: Just, Elkay, Moen.

Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.

Supply Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.

P-Traps: Crane. Kohler, Eljer, Frost, McGuire.

Supply Fittings: Crane, Symmons, Chicago, T & S Brass, Speakman, Kohler.

Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade.

Hangers: Grinnell, Fee & Mason, Elcen, Kin-Line, F & S, B-Line, Michigan.

3. EXECUTION

3..1 Tests and Inspections:

3..1.1 All work to be tested and approved before covering as directed by Architect. Remake all

3..1.2 Water System: 125 psi hydrostatic pressure held for four hours.

3..1.3 Sanitary Waste and Vent System: Fill with water to highest point in the system and let stand without loss for two hours.

3..1.4 Sterilization (Domestic Water System): After tests have been completed, the entire domestic water distribution system shall be thoroughly flushed with water until all entrained dirt and mud have been removed, and shall be sterilized with solutions of either liquid chlorine conforming to Federal Specification BB-B-120 or hypochlorite conforming to Fed. Spec. 0-C-114, Type II, Grade G, or Fed. Spec. 0-S-602, Grade A or B. The chlorinating material shall provide a dosage of not less than 50 parts per million and shall be introduced into the system in an approved manner, and retained in the system for 8 hours before flushing.

3..2 Flashing, Sleeves and Escutcheon Plates:

3..2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stoneman S1300-4 or with sheet lead weighing not less than 4 pounds per square foot or equal. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent openina.

3..2.2 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.

3..2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome-plated escutcheons in finished rooms, all others polished brass.

3..3 Electrical: Wiring by Electrical Contractor.

	PLUMBING FIXTURE SPECIFICATIONS
	DESCRIPTION
WC1	WATER CLOSET (ADA COMPLIANT): FIXTURE: AMERICAN STANDARD 2386.012, 1.6 GALLONS PER FLUSH, 16-1/2" HIGH RIM, FLOOR MOUNT, VITREOUS CHINA, ELONGATED BOWL. SEAT: CHURCH 9500 WHITE OPEN FRONT SEAT WITH CONCEALED CHECK HINGE & WITHOUT COVER. SUPPLIES: EASTMAN C5CR-20-LK, 1/2" x 3/8" ANGLE STOP WITH FLEXIBLE TUBE RISER.
<u>L1</u>	LAVATORY (COUNTERTOP— ADA COMPLIANT): FIXTURE: INTEGRAL BOWL BY COUNTEROP PROVIDER. FAUCET: AMERICAN STANDARD "RELIANT 3" MODEL 7385.050, 4" CENTERSET FAUCET WITH CERAMIC DISC CARTRIDGE, METAL SINGLE LEVER ADA HANDLE, ADJUSTABLE HOT LIMIT SAFETY STOP, CAST BRASS WATERWAY, 0.5 GPM MAXIMUM FLOW RATE AERATOR.  SUPPLIES: EASTMAN C5RC—15—LK, ANGLE STOPS WITH FLEXIBLE TUBE RISERS. WASTE: McGUIRE 155 WC OFFSET WHEELCHAIR LAVATORY STRAINER WITH GRID DRAIN, CAST BRASS ELBOW AND OFFSET TAILPIECE. TRAP: McGUIRE 8902, 1—1/4" x 1—1/2" CAST BRASS P TRAP. INSULATE ALL EXPOSED WATER AND WASTE PIPING WITH PLUMBEREX 2003W "HANDY—SHIELD MAXX" INSULATION WITH MODEL No. 3041 WHEELCHAIR OFFSET STRAINER INSULATOR, ALL COMPLYING WITH ASTM E 84—07/UL 723 CLASS A AND BE LISTED WITH AND MEET UPC/IAPMO. INSULATION MATERIAL SHALL BE U/V INHIBITED WITH ANTIMICROBIAL AND ANTIFUNGAL PROPERTIES.
<u>\$1</u>	SINK ADA COMPLIANT): FIXTURE: JUST MODEL No. SL-ADA-2125-A-GR, 21" x 25" x 5" DEEP, 18 GAUGE TYPE 304 STAINLESS STEEL, ADA COMPLIANT SELF RIMMING SINGLE COMPARTMENT SINK WITH 3-HOLE PUNCH. FAUCET: AMERICAN STANDARD "RELIANT+" MODEL 4205.000.F15, POLISHED CHROME PLATED DECK MOUNT SINGLE LEVER FAUCET WITH SWING SPOUT, INTEGRAL HOT LIMIT SAFETY STOP. SUPPLIES: EASTMAN C5RC-20-LK, 1/2" x 3/8" ANGLE STOPS WITH FLEXIBLE TUBE RISERS. STRAINER: JUST J-35 BASKET STRAINER WITH 1-1/2" C.P. TAILPIECE. TRAP: McGUIRE 8912, 1-1/2" x 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. INSULATE ALL EXPOSED UNDERCOUNTER WATER AND WASTE PIPING WITH PLUMBEREX 2003W "HANDY-SHIELD MAXX" INSULATION COMPLYING WITH ASTM E 84-07/UL 723 CLASS A AND BE LISTED WITH AND MEET UPC/IAPMO. INSULATION MATERIAL SHALL BE U/V INHIBITED WITH ANTIMICROBIAL AND ANTIFUGAL PROPERTIES.
<u>WH-1</u>	INSTANTANEOUS WATER HEATER: STEIBEL ELTRON MODEL DHC 8-2, 5.4 KW, 208 VOLT, SINGLE PHASE, UL LISTED INSTANTANEOUS TYPE WATER HEATER, COMPLETE WITH FLOW SWITCH.
<u>₩H−2</u>	INSTANTANEOUS WATER HEATER: STEIBEL ELTRON MODEL DHC 3-2, 2.5 KW, 208 VOLT, SINGLE PHASE, UL LISTED INSTANTANEOUS TYPE WATER HEATER, COMPLETE WITH FLOW SWITCH.
<u>IM</u>	ICE MAKER BOX: SPECIALTY PRODUCTS MODEL P4129, WITH ADJUSTABLE FRAME AND VALVE.

FIXTURE CONNECTION SCHEDULE									
MARK	DESCRIPTION	TRAP SIZE	WASTE	VENT	COLD WATER	HOT WATER	REMARKS		
WC1	WATER CLOSET (ADA)	INT.	3"	2"	1/2"	_	FLUSH TANK, 1.6 GPF, FLOOR MTD.		
L1	LAVATORY (ADA)	1-1/4" x 1-1/2"	2"	1-1/2"	1/2"	1/2"	COUNTERTOP		
S1	SINK (ADA)	2"	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT		
IM	ICEMAKER BOX	_	_	_	1/2"	_			

#### PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.

2. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.

3. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.

4. WATER PIPING INSTALLED UNDER CONCRETE SLAB SHALL BE LOOPED IN PARTITION WALLS WITH NO JOINTS UNDER SLAB & WITH PLASTIC SLEEVE FOR EACH PENETRATION THROUGH SLAB.

5. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF DISSIMILAR METALS.

6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.

7. SOLDERS AND FLUX HAVING A LEAD CONTENT IN EXCESS OF TWO-TENTHS OF ONE PERCENT SHALL NOT BE USED IN THE INSTALLATION OR REPAIR OF PLUMBING PROVIDING WATER FOR HUMAN CONSUMPTION.

8. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

9. 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.

10. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL LINE SIZES.

11. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH ROOF.

12. 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.

#### WATER CALCULATION SUMMARY

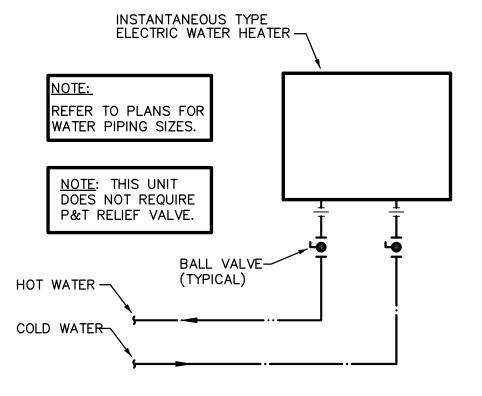
PREVIOUS TI (2012) INCLUDED DEMOLITION OF TWO TOILET ROOMS, EACH WITH 1 LAV & 1 WC. & A BREAK ROOM SINK, FOR A TOTAL OF -18 FU. NEW WORK ADDED 1 SINK, FOR TOTAL NET LOSS OF (18 - 4) 16 FU.

NEW WORK FOR THIS PROJECT: 1 WATER CLOSET. 1 LAV & 1 SINK ADDED (11 FU TOTAL ADED).

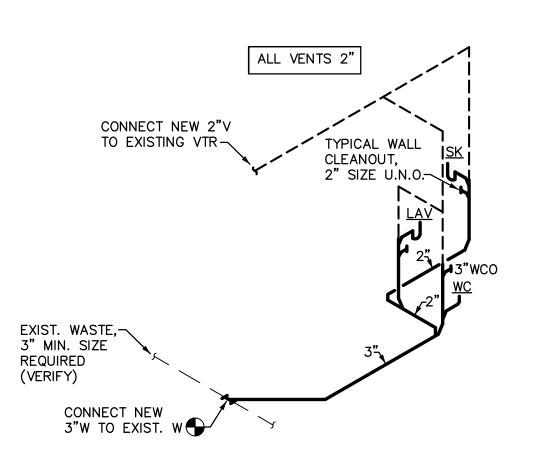
16 FU NET LOSS FROM PREVIOUS TI - FU ADDED FOR THIS PROJECT: 16 - 11 = 5 FU NET DECREASE.

PIPING SIZED PER PREVIOUS TI WATER CALC, WITH 5 PSI ALLOWABLE DROP PER 100 FT.

BRANCH PIPE SIZ	ZING CHART F	OR 5.0 PSI LOSS
PIPE SIZE	G.P.M.	F.U.(TANK)
1/2"	3	2
3/4" 1"	7 14	7 19



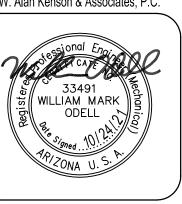
# WATER HEATER DETAIL



## WASTE AND VENT SCHEMATIC

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CHECKED BY DATE July 9th, 2021

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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.

SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)

TWO HEAD EMERGENCY LIGHT WITH BATTERY.

THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)

4-WAY SWITCH +48" AFF (20A-120/277V)

SWITCH AND PILOT LIGHT (20A-120-/277V)

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 COVÉRPLATE, 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.

TELPHONE 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

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

ALL WIRING #6 AWG AND LARGER SHALL BE XHHW COPPER. #8 AWG AND SMALLER SHALL BE THHN/THWN COPPER

## **SPECIFICATIONS**

- 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.L. APPROVED AND COMMERCIAL
- 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
- 12. PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

RETURN REMOVED MATERIAL DEEMED SALVAGEABLE TO OWNER'S REPRESENTATIVE.

MATERIALS DEEMED NOT SALVAGEABLE SHALL BE REMOVED FROM THE PREMISES.

EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO PERFORM HIS WORK.

DISCONNECTS, ETC., AS NOTED OR INDICATED WITHIN DEMOLITION AREA. (ALL ITEMS MAY NOT BE SHOWN.) REWORK AS NECESSARY ALL CIRCUITING WHICH REQUIRES

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.

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

WORK REQUIRED FOR EXISTING EQUIPMENT NOTED AS "EXISTING TO BE REMOVED"

A. SALVAGING OR DISPOSING OF ALL MATERIAL OR EQUIPMENT AS DIRECTED BY

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

C. REMOVAL OR RECIRCUITING (AS REQUIRED OR AS NOTED ON PANELS) OF ALL

E. REPAIR AND PATCHING OF WALLS, FLOORS AND CEILINGS TO MATCH EXISTING

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

THE OPPOSITE END LOCATION OF ALL EMPTY FEEDER CONDUITS AT

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

SWITCHBOARDS, PANELBOARDS, ETC., SHALL BE MARKED USING AN ENGRAVED BRASS TAG ATTACHED TO THE CONDUIT.

EXISTING FEEDER CONDUITS SHALL BE REMOVED OR CUT OFF AND ABANDONED IF

FOUND TO BE UNSALVAGEABLE BY THE OWNER, ARCHITECT OR ENGINEER.

EXISTING EQUIPMENT NOT IMPICITLY SHOWN ON THE DRAWINGS IS INTENDED TO BE

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT

WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALL-

SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING

DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE

ATION DETAIL THAT CONFORM TO UNDERWRITERS LABOR-

ATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP

THE CONTRACTOR WILL EXAMINE THE PREMISES AND SATISFIED HIMSELF AS TO

THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL

REMOVE ALL EXISTING WIRING DEVICES, LIGHT FIXTURES, WIRE, CONDUIT,

GENERAL ELECTRICAL DEMOLITION NOTES

FIELD VERIFY ALL DETAILS OF DEMOLITION.

OWNER OR OWER'S REPRESENTATIVE.

OR PER ARCHITECT'S INSTRUCTIONS.

D. REMOVAL OF ALL FITTINGS, SUPPORTS, BRACKETS, ETC.

CONTINUATION THROUGH THE AREA.

BRANCH CIRCUITING.

## **ABBREVIATIONS**

ABOVE FINISHED FLOOR ( ¢ OF OUTLET ) ABOVE FINISHED GRADE ( ¢ OF OUTLET ) EMPTY CONDUIT

**GROUND FAULT INTERRUPTER** 

**WEATHERPROOF** UNLESS OTHERWISE NOTED

NIGHT LIGHT

ELECTRIC DRINKING FOUNTAIN TELEPHONE MOUNTING BOARD

TELEPHONE TERMINAL CABINET SERVICE ENTRANCE SECTION

**EXHAUST FAN** 

DUTLET MOUNTING HEIGHTS PER

AMERICAN DISABILITY ACT

TELEPHONE/DATA +18' (MIN.)

+48" (MAX)

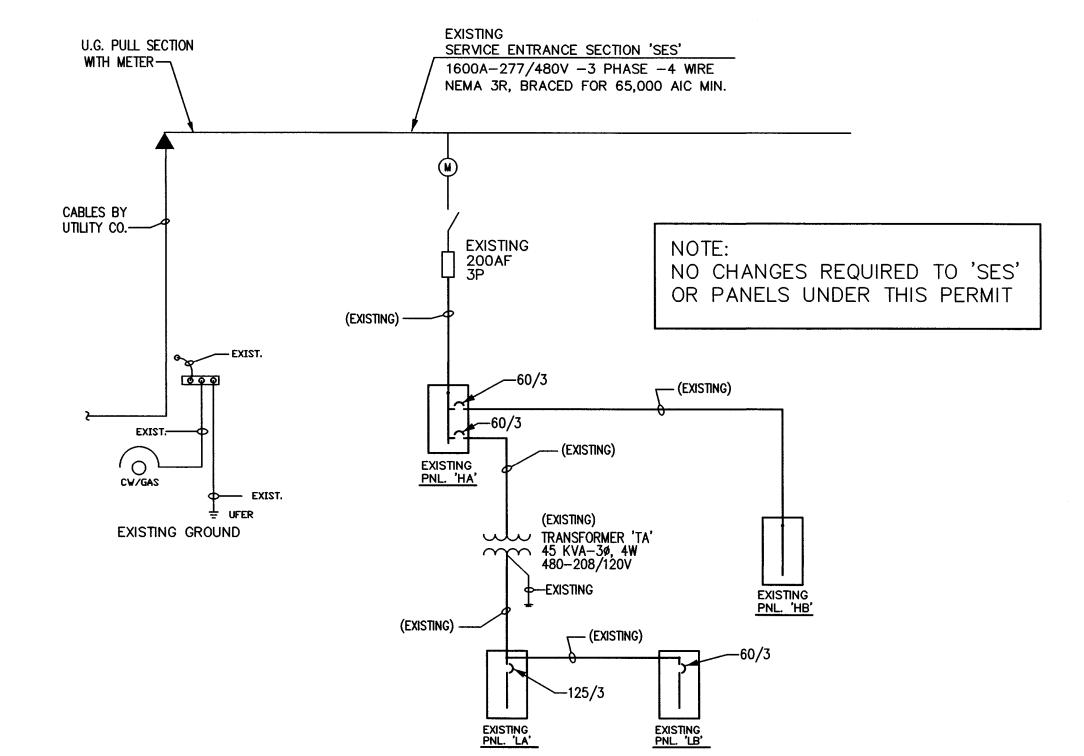
+18" (MIN.)

+54" (MAX)

SWITCHES

RECEPTACLES

SIDE REACH



NO NEW LOAD ADDED UNDER THIS PERMIT LOAD REMOVED IS GREATER.

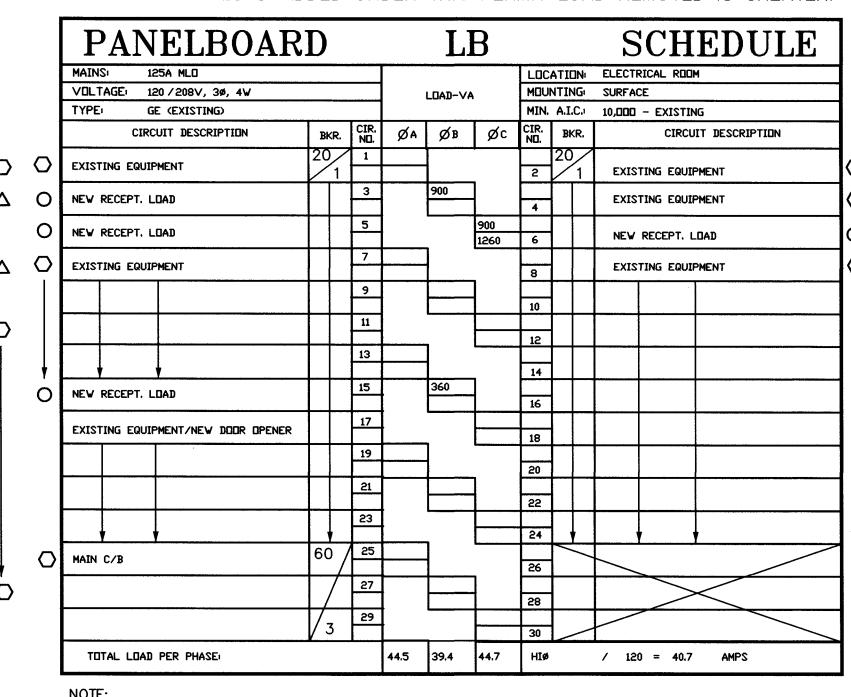
## **EXISTING PARTIAL ELECTRICAL ONE - LINE DIAGRAM**

NO NEW PANEL LOAD ADDED UNDER THIS PERMIT LOAD REMOVED IS GREATER.

MAINS: 125A MLD							LOCATION: ELECTRICAL ROOM				
VDLTAGE: 120 / 208V, 3ø, 4W			L□AD-VA			MOUNTING: SURFACE MIN. A.I.C.: 10,000 - EXISTING					
TYPE: GE (EXISTING)											
CIRCUIT DESCRIPTION	BKR.	CIR.	MA ØB ØC		CIR. ND.	BKR.	CIRCUIT DESCRIPTION				
EXISTING EQUIPMENT	20	1				2	20	EXIST	TING EQUI	[PMENT	
		3		2700		4	40 /	TANK	LESS WA	TER HEATER	
		5			2700	6	2	5.4 K	.w, 208v,	, 1ø	
		7	1250	1	<u> </u>	8	30 /	TANK	LESS WA	TER HEATER	
		9		1250	-	10	/2	2.5 K	W, 208V,	, 1ø	
		11				12	20/1	EXISTING EQUIPMENT			
		13				14					
NEW RECEPT. LOAD		15		360		16			*		
		17			360	18					
		19	1500			20					
		21		800	]	55					
EXISTING EQUIPMENT		23				24					
	60	25		}	<u> </u>	26					
		27				28	30 /				
	/3	29	1			30	/2		1		

ELECTRICAL CONTRACTOR TO FIELD VERIFY AVAILABLE CIRCUITS

NO NEW PANEL LOAD ADDED UNDER THIS PERMIT LOAD REMOVED IS GREATER



ELECTRICAL CONTRACTOR TO FIELD VERIFY AVAILABLE CIRCUITS

#### PANELBOARD SYMBOLS EXISTING BREAKER W/ EXISTING LOAD

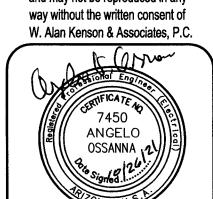
- O EXISTING BREAKER W/ NEW LOAD
- A NEW BREAKER W/ NEW LOAD

ELECTRICAL DESIGN & CADD SERVICES INC. 1600 LAMB LANE PRESCOTT, AZ. 86305
PH. (928) 776-4900
FAX (928) 776-7800

E-MAIL: EES@CABLEONE.NET

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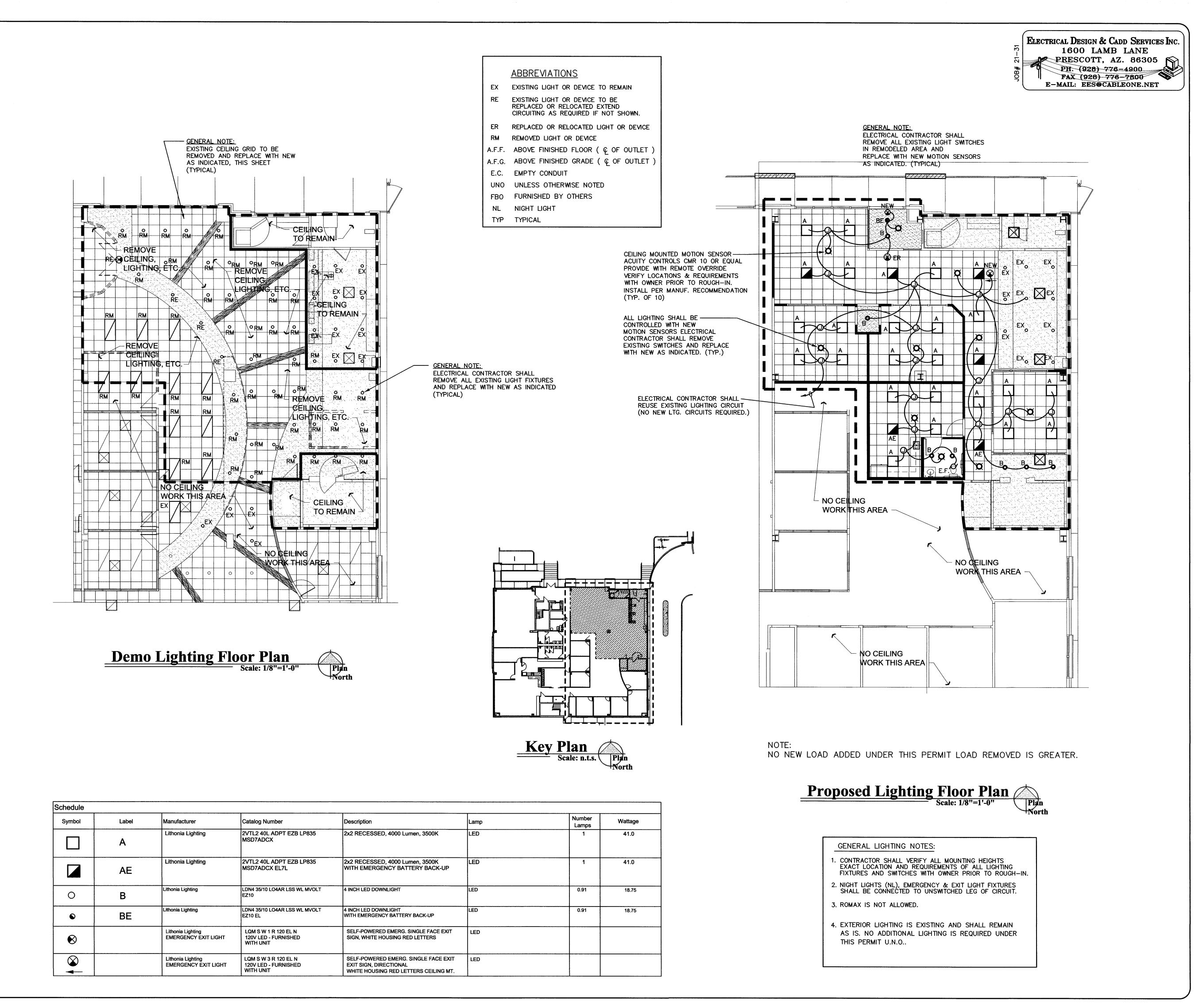
LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL

BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION

WITH ALL VARIABLES DEFINED.

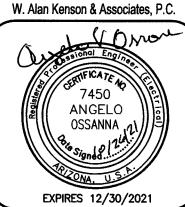
EXISTING TO REMAIN, " UNLESS NOTED OTHERWISE.

FIRE WALL/FLOOR PENETRATION



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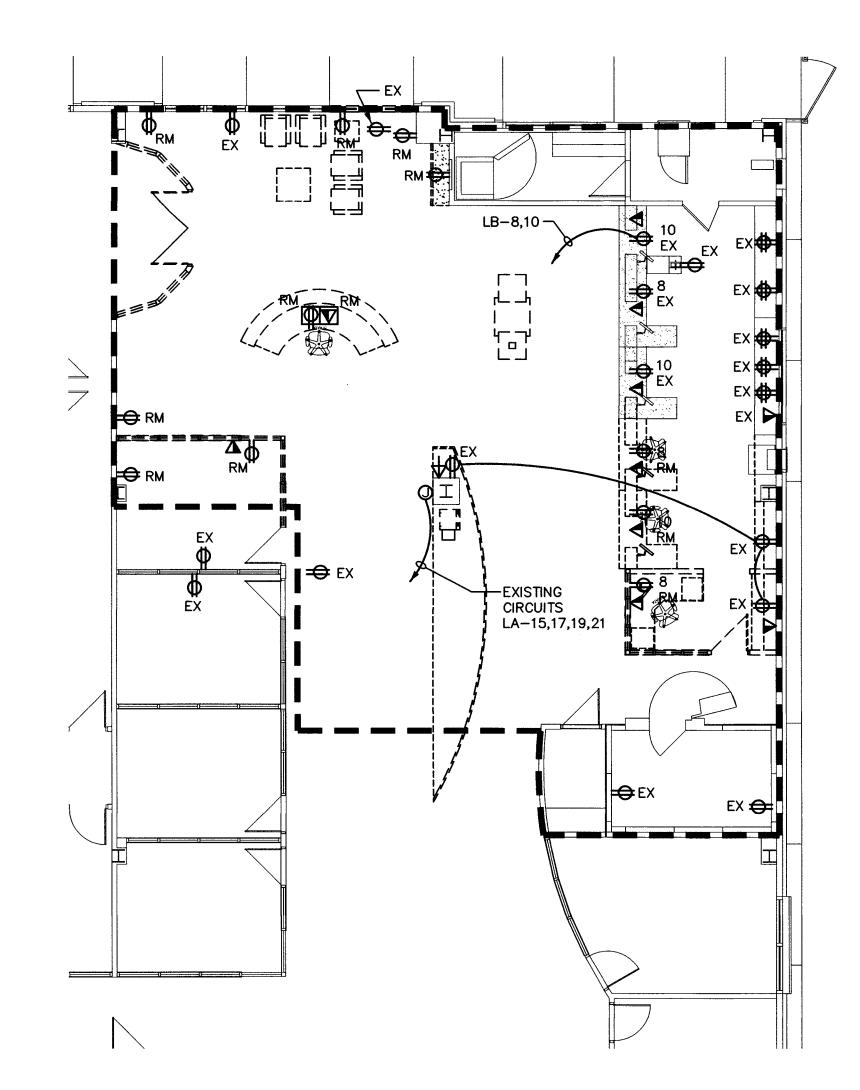
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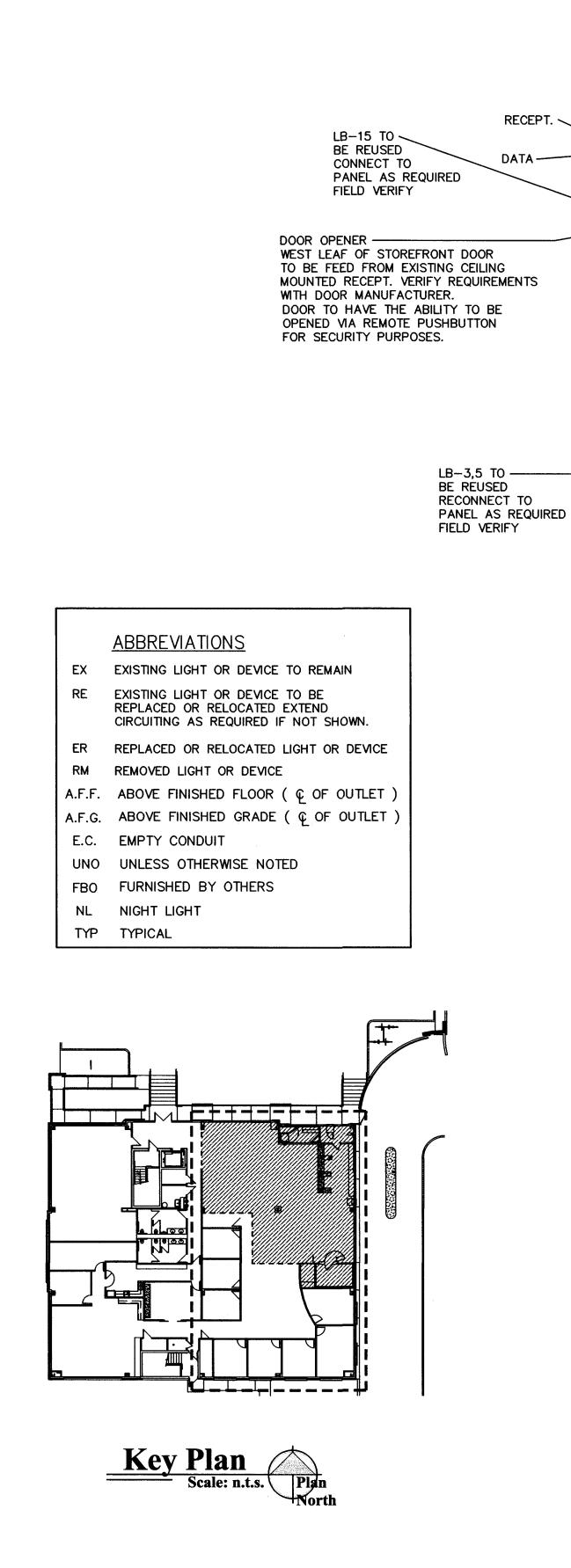
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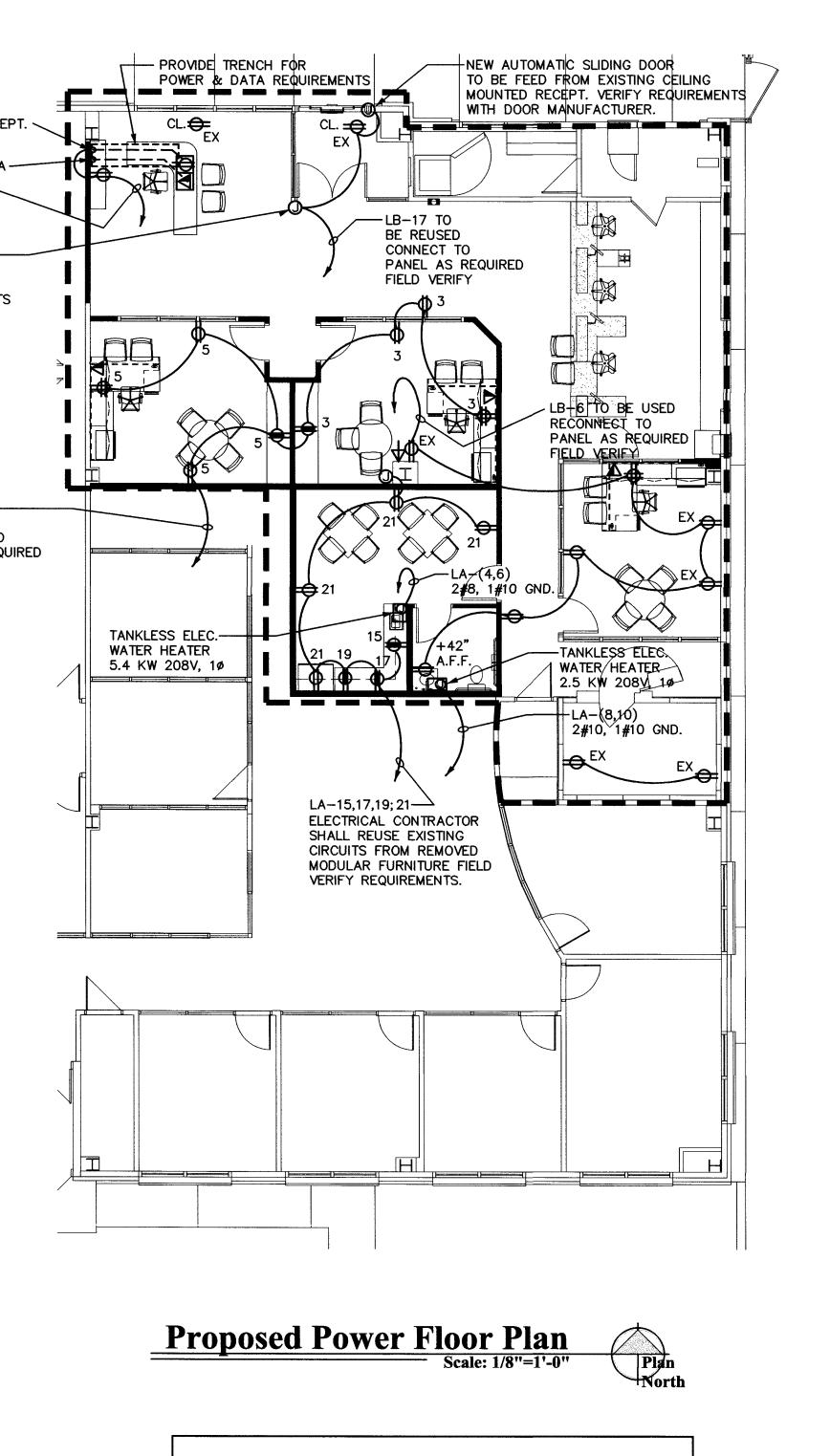


Demo Power Floor Plan
Scale: 1/8"=1'-0"

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

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





GENERAL POWER NOTES:

- 1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHTS, LOCATIONS OR RUN INTO CONFLICTS OF RECEPTACLES OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENG.,
- 2. ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING CIRCUITS WHEN POSSIBLE OR AS INDICATED.
- 3. ALL RECEPTACLES IN AREAS WITH-IN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
- 4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
- 5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE OWNER PRIOR TO ROUGH—IN.
- 6. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS. EXISTING EQUIPMENT TO BE REUSED NO NEW UNIT REQUIRED UNDER THIS PERMIT.

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