

## GENERAL NOTES

### GENERAL REQUIREMENTS:

- A. DRAWINGS. THE DRAWINGS ARE INTENDED TO DESCRIBE THE OVERALL SCOPE OF WORK. CONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND ALERT ARCHITECT TO ANY UNFORESEEN CONSTRUCTION DIFFICULTIES BEFORE BEGINNING WORK. IN-FIELD REVISIONS SHALL NOT OCCUR WITHOUT ARCHITECT'S APPROVAL.
- B. PRE-CONSTRUCTION MEETING. PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, THE CONTRACTOR SHALL SCHEDULE, WITH OWNERS APPROVAL, A PRE-CONSTRUCTION MEETING WITH THE LOCAL BUILDING DEPT. OR LOCAL PUBLIC WORKS DEPT. VERIFY WHICH AGENCY WOULD BE INVOLVED. THE CONTRACTOR SHALL PROVIDE LOCAL INSPECTOR WITH 24 HOURS NOTICE PRIOR TO INSPECTION
- C. TYPICAL WALL SECTIONS, FINISHES, AND DETAILS ARE NOT INDICATED EVERYWHERE THEY OCCUR ON PLANS, ELEVATIONS AND SECTIONS. REFER TO DETAILED DRAWINGS. CONTRACTOR TO PROVIDE AS IF DRAWN IN FULL.
- D. CODES / PERMITS / REGULATIONS. ALL EXTERIOR SIGNAGE MUST BE SUBMITTED AND REVIEWED UNDER SEPARATE PERMIT APPLICATION.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY OTHER THAN THE BUILDING PERMIT. CONTRACTOR SHALL ALSO PAY FOR ALL OTHER CHARGES, FEES OR COSTS CHARGED BY THE BUILDING AND CONSTRUCTION DEPARTMENTS, UTILITY AGENCIES OR PRIVATE COMPANIES WHICH REQUIRE SUCH COSTS FOR OR PRIOR TO INSTALLATIONS.

NOTHING IN THE DRAWINGS SHALL BE CONSTRUCTED TO PERMIT AN INSTALLATION IN VIOLATION OF APPLICABLE CODES AND/OR RESTRICTIONS. SHOULD ANY CHANGE IN THE DRAWINGS BE NECESSARY IN ORDER TO COMPLY WITH APPLICABLE CODES AND/OR REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT ONCE AND CEASE WORK. ALL PARTS PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES, REGULATIONS, RESTRICTIONS, REQUIREMENTS AND CODES.

- E. AMENDED BY GOVERNING CITY & ALL JURISDICTION RULES AND REGULATIONS. DIMENSIONS ARE SHOWN TO FACE OF MASONRY OR CENTERLINE OF OPENING, UNLESS DETAILED OTHERWISE ON DRAWINGS.

DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENTS. NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.

THE CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS FOR THE EQUIPMENT FURNISHED AND INSTALLED BY HIMSELF/HERSELF OR OTHERS.

THE CONTRACTOR SHALL CONSULT THE PLANS OF ALL TRADES FOR OPENINGS THROUGH SLABS, WALLS, CEILINGS AND ROOFS.

- F. SHOP DRAWINGS REVIEW. PROVIDE SHOP DRAWINGS FOR THE ARCHITECTS/OWNERS AND AS REQUIRED BY THE CITY PRIOR TO CONSTRUCTION.

- G. CONTRACTOR TO FRAME OPENINGS IN WALLS, CEILINGS AND FLOORS FOR H.V.A.C. AND OTHER MECHANICAL OR ELECTRICAL WORK WHERE REQUIRED AND NOT OTHERWISE SHOWN ON THE PLANS.

- H. COMPLY WITH APPLICABLE REGULATIONS FOR BARRIER-FREE FACILITIES INCLUDING:

- 1). MAXIMUM THRESHOLD HEIGHT TO BE ONE HALF INCH (1/2") ALONG ACCESSIBLE ROUTE OF TRAVEL.
- 2). STAIR NOSINGS TO BE FLUSH, SLIP RESISTANT AND ROUNDED TO RADIUS OF ONE HALF INCH (1/2") MAXIMUM.

### DOORS/WINDOWS:

- A. GLAZING. PROVIDE GLAZING PER CITY CODES: INSULATED UNITS SHALL BE CLASS 40 GLAZING WITH LOW ARGON GAS.

GLAZING IN LOCATIONS SUBJECT TO HUMAN IMPACT SUCH AS PANES IN DOORS, GLAZING WITHIN A 24" ARC OF A DOOR OPENING, GLAZING WITHIN 18" OF THE FLOOR (AND IS OVER 9 SQ. FT. PER PANEL) SHALL BE TEMPERED GLASS OR LAMINATED SAFETY GLASS PER CODE.

GLAZING U-VALUE (AMMA TESTED) U-40 MAXIMUM.

### FIRE PROTECTION:

- ~~A. GO TO EXTEND THE EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM AS REQUIRED - GET SYSTEM DESIGN APPROVED BY GOVERNING CITY'S BUILDING DEPARTMENT - AND FIRE DEPARTMENT PRIOR TO INSTALLATION (IF APPLICABLE).~~
- ~~NOTE: GO TO PROVIDE LIFE SAFETY MANAGEMENT IN THEIR BIDDING PROCESS~~

- B. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY INTERNATIONAL BUILDING CODE AND LOCATE PER FIRE MARSHAL'S DIRECTION. 1 FIRE EXTINGUISHER PER 3,000 S.F. OF BUILDING AREA WITHIN 75'-0" TRAVEL DISTANCE BETWEEN EXTINGUISHERS.

- C. MAINTAIN STRUCTURAL AND FIRE RESISTIVE INTEGRITY AT EXTERIOR AND RATED INTERIOR WALL PENETRATIONS FOR ELECTRICAL, MECHANICAL, PLUMBING AND COMMUNICATIONS CONDUITS, PIPED AND SIMILAR SYSTEMS PER CITY'S CODE.

### THERMAL/MOISTURE PROTECTION:

- A. OPENINGS. ALL OPENINGS TO BE CAULKED, SEALED OR WEATHER-STRIPPED.

ALL FLASHING AND ARCHITECTURAL SHEET METAL TO BE 24 GAUGE GALVANIZED STEEL, FACTORY PRIMED AND FIELD PAINTED. 10'-0" LENGTHS, PER SMACNA MANUAL UNLESS OTHERWISE NOTED.

- B. CAULKING AND SEALANTS. USE PRIMERS AS REQUIRED BY MANUFACTURER. BACKING RODS OR TAPE AS RECOMMENDED BY MANUFACTURER. USE POLYURETHANE SEALANTS AT CONCRETE FLOOR AND SIDEWALK JOINTS. ALL OTHER LOCATIONS USE POLYSULFIDE OR SILICONE.

- C. VAPOR BARRIERS. CONTINUOUS APPROVED VAPOR BARRIERS SHALL BE INSTALLED ON THE HEATED SIDE OF ALL THERMAL INSULATION INSTALLED.

- D. INSULATION. PROVIDE INSULATION PER LOCAL CODE, COMPONENT PERFORMANCE APPROACH.

### GENERAL CONTRACTOR NOTE:

THE GC MUST SUBMIT SEPARATE DRAWINGS FOR SPRINKLER AND FIRE ALARM WORK AND SHALL BE UNDER SEPARATE PERMIT - WHEN APPLICABLE.

### GENERAL NOTES:

1. PRIOR TO DEMOLITION, VERIFY IN FIELD EXISTING WALLS AND IF ANY STRUCTURAL COLUMNS EXIST. IF SO, CONTACT ARCHITECT IMMEDIATELY.
2. CONTRACTOR TO MAINTAIN PROPER LIGHTING, SANITATION AND VENTILATION AT ALL TIMES.
3. ALL WORK MUST BE APPROVED BY BUILDING INSPECTOR PRIOR TO COVERING WORK.
4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN A WATER AND WEATHER TIGHT BUILDING.
5. ALL WORK TO BE PERFORMED TO CODE BY LICENSE CONTRACTORS PERFORMING WORK IN THEIR SPECIFIC TRADE ONLY.
6. ALL DESIGN, DRAWINGS, AND DETAILS REPRESENT COMPLETE WORK IN PLACE. ARCHITECT SHALL HAVE NO CONTROL OR CHANGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION.
7. INTERIOR PARTITIONS NOTED ON PLANS MAY BE SHOWN AS NOMINAL DIMENSIONS, SUCH AS 5" INTERIOR WALL REFERS TO GYPSUM BOARD EACH OVER 3-5/8" STUDS. STUD SPACING IS 24" O.C.
8. ALL DEBRIS GENERATED FROM CONSTRUCTION MUST BE KEPT ON THE SITE IN EITHER AN ENCLOSED AREA OR HAULED AWAY DAILY, AND DISPOSED OF LEGALLY OFF-SITE.
9. EXTERIOR SIGNAGE IS NOT PART OF THIS CONTRACT OR PERMIT EXCEPT ELECTRICAL ROUGH-IN AND BLOCKING. SIGN CONTRACTOR SHALL MAKE SEPARATE SUBMITTAL TO THE CITY FOR REVIEW AND PERMIT.
10. KEEP ALL PIPING AND CONDUIT AS CLOSE TO WALLS AND ROOF DECK AS POSSIBLE AND ALL DUCTWORK AS CLOSE TO ROOF AS POSSIBLE. WHERE EXPOSED, ALL PIPING CONDUIT AND DUCTWORK SHALL BE PAINTED UNLESS NOTED. ALL PIPING CONDUIT SHALL BE ORGANIZED IN A NEAT MANNER RUNNING PARALLEL OR PERPENDICULAR TO ROOF FRAMING MEMBERS.
11. MAXIMUM FLAME SPREAD CLASSIFICATION OF FINISH MATERIALS USED ON INTERIOR WALLS AND CEILING SHALL NOT EXCEED THAT SET FORTH IN FLAME SPREAD TABLE OF THE BUILDING CODE.
12. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND COORDINATE WITH ARCHITECT ANY CONFLICTS WITH THE PLANS.
13. PERFORM THE REMOVAL, CUTTING, AND DRILLING WITH THE CARE USE OF THE SMALLEST TOOLS SO AS TO NOT DAMAGE THE STRUCTURAL INTEGRITY OF THE BUILDING.
14. TO SAW CUT AT EXISTING RESTROOM LOCATION, USE SAWS AND COREDRILLS. DO NOT USE JACKHAMMER UNDER ANY CIRCUMSTANCES.
15. GC TO COORDINATE FIRE ALARM INSTALL WITH LANDLORD, IF REQUIRED BY CITY.

### SCOPE OF WORK:

INTERIOR TENANT IMPROVEMENT OF A REMODELED VACANT SPACE TO A NEW TROPICAL SMOOTHIE CAFE LOCATED WITHIN A RETAIL CENTER'S SHELL BUILDING. THE TRASH DUMPSTER SHALL BE PROVIDED BY THE LANDLORD. CONSTRUCTION DUMPSTER PROVIDED BY TENANT'S GC

### BUILDING CODES ADOPTED:

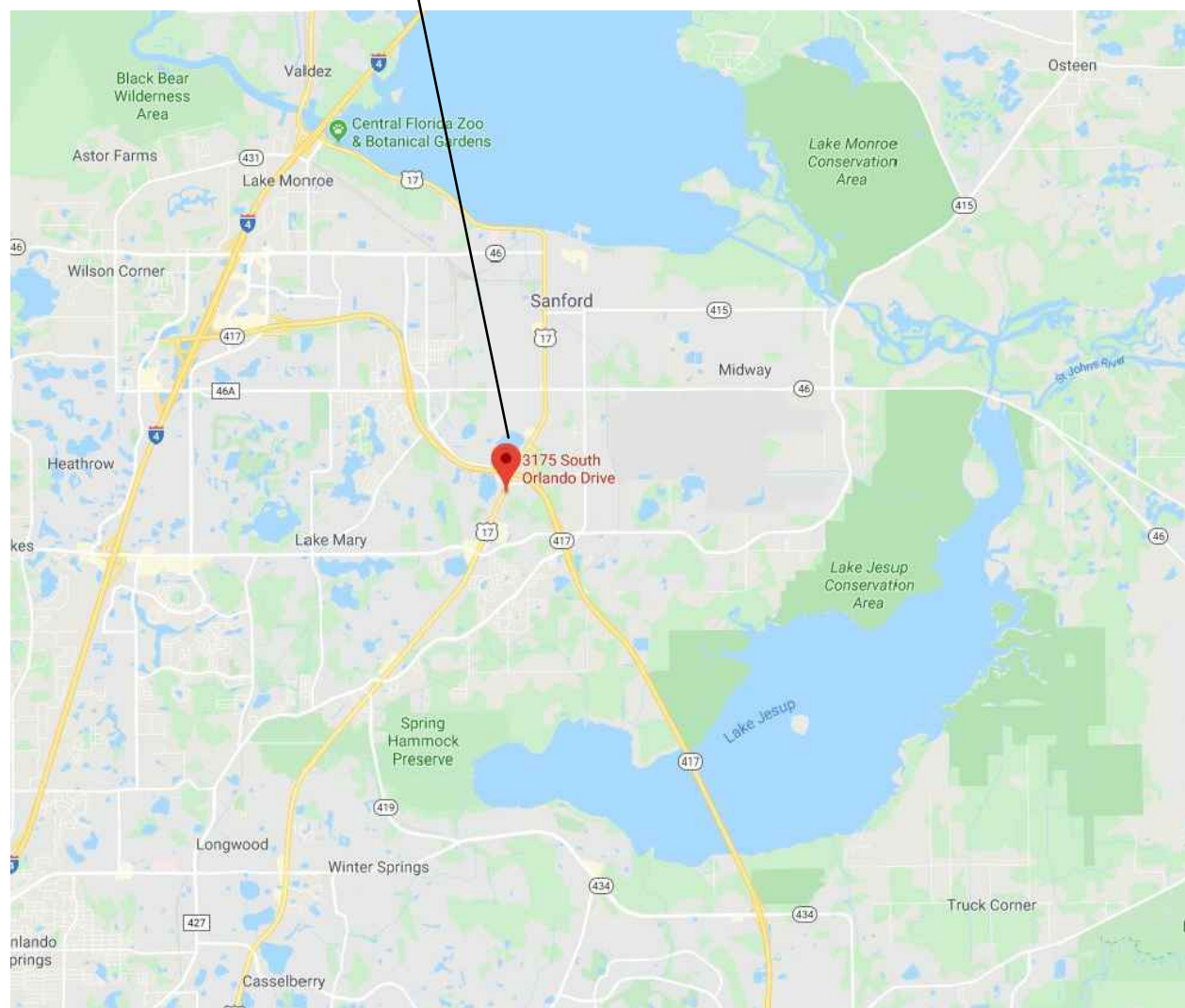
2017 FLORIDA BUILDING CODE (6th EDITION)  
FLORIDA BUILDING CODE EXISTING BUILDING (6th EDITION)  
FLORIDA BUILDING CODE ACCESSIBILITY (6th EDITION)  
FLORIDA BUILDING CODE ENERGY CONSERVATION (6th EDITION)  
FLORIDA BUILDING CODE FUEL GAS (6th EDITION)  
FLORIDA BUILDING CODE MECHANICAL (6th EDITION)  
FLORIDA BUILDING CODE PLUMBING (6th EDITION)  
FLORIDA FIRE PREVENTION CODE (6th EDITION)  
NATIONAL ELECTRICAL CODE (2014)  
FLORIDA FIRE PREVENTION CODE (5TH EDITION)

NOTE: THIS IS A LEVEL 2 ALTERATION PER THE FLORIDA BUILDING CODE 6TH EDITION (2017 EXISTING)

ARCHITECT'S STATEMENT: TO THE BEST OF MY KNOWLEDGE THIS PROJECT COMPLIES WITH THE 2017 FLORIDA FIRE PREVENTION CODE 6TH EDITION AS STATED WITHIN CODE SUMMARY.

## SITE MAP

### PROJECT LOCATION



## AN INTERIOR TENANT IMPROVEMENT

tropicalCAFE  
SMOOTHIE

eat better. feel better.

SEMINOLE CENTRE  
3175 SOUTH ORLANDO DRIVE #400  
SANFORD, FL 32773  
STORE (FL-278)

## REFERENCE SYMBOLS

DOOR TAG		REFERENCE	
ROOM TAG		WALL SECTION REFERENCE	
DETAIL REFERENCE		EQUIPMENT REFERENCE	
REVISION			

## ABBREVIATIONS

ACP	ACOUSTICAL CLG. PANEL	FLASH	FLASHING	PLAM	PLASTIC LAMINATE
ACT	ACOUSTICAL CLG. TILE	FOIC	FURNISHED BY OWNER	PLYW/D	PLYWOOD
AL	ALUMINUM	FO	INSTALLED BY CONTRACTOR	R	RISER, RADIUS
ALUM	ALUMINUM	FRP	FINISH OPENING	REBAR	REINFORCING BAR
ARCH	ARCHITECTURAL		FIBERGLASS REINFORCED	REF	REFERENCE
AVG	AVERAGE	FRT	PANELS	REV	REVISION
BLDG	BUILDING	GA	FIRE RETARDANT TREATED	RM, RMS	ROOM, ROOMS
BLKG	BLOCKING	GALV	GAUGE	RO	ROUGH OPENING
BR	BRICK	GL	GALVANIZED	S & V	SATIN AND VARNISH
CMU	CONCRETE BLOCK	GWB	GLASS	SC	SOLID CORE
CT	CERAMIC TILE	HDWE	GYPSUM WALLBOARD	SCHED	SCHEDULE
CFM	CUBIC FEET PER MINUTE	HM	HARDWARE	SEC	SECTION
CL	CENTER LINE	HOR	HOLLOW METAL	SHT	SHEET
CLG	CEILING	HT	HORIZONTAL	SPECS	SPECIFICATIONS
CONC	CONCRETE	HW	HEIGHT	SF	SQUARE FEET
CONT	CONTINUOUS	HWT	HOT WATER	ST	STEEL
CW	COLD WATER	HHW	HOT WATER HEATER	STOR	STORAGE
DTL	DETAIL	LAV	HOT WATER TANK	STRUCT	STRUCTURAL
DF	DRINKING FOUNTAIN	LAV	LAVATORY	SUSP	SUSPENDED
DIA	DIAMETER	LT	LIGHT	SV	SHEET VINYL
DIM	DIMENSION	MAT'L	MATERIAL	SS	STAINLESS STEEL
DN	DOWN	MAX	MAXIMUM	TB	TELEPHONE MOUNTING BOARD
DR	DOOR	MTL	METAL	TD	TRENCH DRAIN
DS	DOWNSPOUT	MIN	MINIMUM	THRESH	THRESHOLD
DWG	DRAWING	MO	MASONRY OPENING	TYP	TYPICAL
EA	EACH	MUL	MULLION	UNFIN	UNFINISHED
ELEV	ELEVATION	N/A	NOT APPLICABLE	UR	URINAL
EXIST	EXISTING	NIC	NOT IN THIS CONTRACT	VCT	VINYL COMPOSITION TILE
OR EX		NO	NUMBER	VERT	VERTICAL
EXT	EXTERIOR	NOM	NOMINAL	VST	VINYL SAFETY TILE
FDN	FOUNDATION	NTS	NOT TO SCALE	W	WIDTH
FIN	FINISH	OC	ON CENTER	WC	WATER CLOSET
FD	FLOOR DRAIN	OD	OUTSIDE DIMENSION	WD	WOOD
FL	FLOOR	PT	PAINT	WDW	WINDOW
				WP	WATERPROOF

## CONTACT INFORMATION

<b>TENANT INFORMATION:</b> R&R TROPICS NO. 2 LLC RICHARD PETTINGILL 710 W CRANES CIR/CE ALTAMONTE SPRINGS, FL 32701 410-430-9732	<b>CORPORATE INFORMATION:</b> TROPICAL SMOOTHIE CAFE 1117 Perimeter Center W W200, Atlanta, GA 30338	<b>BUILDING DEPARTMENT:</b> CITY OF SANFORD 300 N. PARK AVE SANFORD, FL 32771 407-688-5000 ONLINE SUBMITTAL REQUIRED
<b>PROJECT MANAGER:</b> ATTN: CHRIS NEAL 6501 E. Greenway Pkwy #103-707 SCOTTSDALE, AZ 85254 P: 480.297.5577 cneal@neptunedg.com	<b>LANDLORD:</b> RB SEMINOLE LLC C/O RD MANAGEMENT LLC 810 SEVENTH AVE - 10TH FLOOR NEW YORK NY 10019 212-265-6600	<b>HEALTH DEPARTMENT:</b> FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES 3125 CORNER BLVD., STE D TALLAHASSEE, FL 92399 850-245-5595
<b>GRAND RESTAURANT / HOCKENBERGS</b> FOODSERVICE EQUIPMENT & SUPPLY 3650 ANNAPOLIS LANE, N. #107 PLYMOUTH, MN 55447  MARK CDX, CFSP (763) 746-3410 markc@hockenbergs.com	<b>QUALSERV</b> 7400 S. 28th Street Fort Smith, AR 72908  (800) 643-2980 Email contactus@qualservcorp.com	<b>MICROS/ORACLE (PDS PROVIDER)</b>  GARRETT STON (561) 248-9040 garrett.ston@oracle.com  <b>RETAIL TECHNOLOGY GROUP</b> 1663 FENTON BUSINESS PARK COURT FENTON, MD 63026 (PDS INSTALLER)  Amy Kubala amy.kubala@rtgpos.com 836-680-8226
<b>THE HDWARD COMPANY, INC.</b> 1375 N. BARKER ROAD BRIDGFIELD, VI 53045  NICHOLAS STAUFF, CDT (262) 317-7751 nick@howardcompany.com  LAUREN SALVI (262) 317-7702 lauren@howardcompany.com	<b>LEAH UTZMAN</b> (214) 826-0011 EXT: 7013 (469) 331-6232 leah@umi-inc.com  <b>ALLISON GRABER</b> (214) 826-0011 (469) 331-6236	<b>MUZAK, MOOD MEDIA CO.</b>  Clint Hatmaker clint.hatmaker@moodmedia.com 727-253-0807

## PROJECT DATA

PROJECT NAME:	TROPICAL SMOOTHIE CAFE
PROJECT ADDRESS:	3175 SOUTH ORLANDO DRIVE #400 SANFORD, FL 32773
LOCAL JURISDICTION:	BUILDING & SAFETY - CITY OF SANFORD HEALTH: FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF FOOD SAFETY
CODES UTILIZED:	2017 FLORIDA BUILDING CODES (6TH EDITION)
PROPOSED USE:	RESTAURANT
CONSTRUCTION TYPE:	IIB- NOT SPRINKLERED
OCCUPANCY GROUP:	M (OCCUPANT LOAD UNDER 50 PERSONS SHALL BE CLASSIFIED AS A GROUP M)
TOTAL S.F.:	1,268 S.F. PER LEASE

DINING AREA 320 S.F. / 15 = 22  
KITCHEN/SERVICE AREA 320 S.F. / 200 = 2  
HALLWAY/ RESTROOM 140 S.F. / 0 = 0

ACTUAL INTERIOR SEATING: 19 SEATS  
TOTAL OCCUPANT LOAD: 24- SEE SHEET A1.1

1 EXIT(S) REQUIRED, 1 EXIT(S) PROVIDED (OCCUPANT LOAD < 50)  
2 RESTROOMS REQUIRED, 2 RESTROOMS PROVIDED

NO STRUCTURAL WORK IS TO BE PERFORMED UNDER THIS PERMIT.  
NO SITE WORK IS TO BE PERFORMED UNDER THIS PERMIT.

(3) EMPLOYEES MAXIMUM

EXTERIOR SIGN UNDER SEPARATE PERMIT BY SIGN COMPANY - INSTALLED BY SIGN COMPANY

NOTE: NO COOKING ON PREMISES WITH THE EXCEPTION OF ITEMS 25, 27 & 57 SHOWN ON A5.0 - PER MFG HOODS ARE NOT REQUIRED

## INDEX OF SHEETS

A1.0	TITLE SHEET
A1.1	EGRESS / EXIT PLAN AND RESPONSIBILITY SCHEDULE
A1.2	ACCESSIBILITY AND SPECIFICATIONS
A1.3	EXISTING SITE PLAN / DEMO PLAN
A2.0	FLOOR PLAN
A2.1	FINISH PLAN
A2.2	LOW VOLTAGE PLAN
A2.3	WALL BACKING PLAN
A3.0	REFLECTED CEILING PLAN
A4.0	ELEVATIONS
A4.1	ELEVATIONS
A5.0	EQUIPMENT / EQUIPMENT PLAN
A6.0	DETAILS
A6.1	DETAILS
A6.2	DETAILS
A7.0	SPECIFICATIONS
A7.1	SPECIFICATIONS

M1	MECHANICAL FLOOR PLAN
M2	MECHANICAL DETAILS
M3	MECHANICAL SPECIFICATIONS
P1	PLUMBING SYMBOLS & SCHEDULES
P2	PLUMBING PLANS
P3	PLUMBING DETAILS
P4	SPECIFICATIONS

E1	ELECTRICAL NOTING
E2	ELECTRICAL LIGHTING- ROOF PLAN
E3	POWER PLAN-SINGLE-LINE DIAGRAM, & PANEL

**SET DATED: 1.3.2020**

ND ENTERPRISES, LLC

6501 E. GREENWAY PKWY #103-707 SCOTTSDALE, AZ 85254  
P 480-297-5577 www.ndentlazz.com

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3715 SOUTH ORLANDO DRIVE #400  
SANFORD, FL 32773  
STORE #FL-278

tropicalCAFE  
SMOOTHIE  
eat better. feel better.

TSC: FL-278

### REVISION

LANDLORD  
1.3.2020

DATE: 12.26.2019

REVIEW SET  
NOT FOR  
PERMIT

COVER SHEET

A1.0



GENERAL NOTES

1. ALL ROUGH-INS AND CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE FIXTURES AND EQUIPMENT PROVIDED BY THE EQUIPMENT VENDOR OR BY OUTSIDE PARTIES LISTED AS 'VENDOR' OR 'BY OTHERS'. ALL INFORMATION PROVIDED ON THESE PLANS ARE TO BE VERIFIED BY THE GENERAL CONTRACTOR THRU THE SPECIFICATIONS MANUAL PROVIDED BY THE EQUIPMENT VENDOR OR BY CONSULTING THE APPROPRIATE OUTSIDE PARTIES .
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL ROUGH-IN LOCATIONS AS NEEDED BY FIELD CONDITIONS FOR EQUIPMENT UTILITY CONNECTION(S) PER MANUFACTURER'S CURRENT SPECIFICATION SHEETS.
3. SERVICE ROUGH-INS AND EQUIPMENT CONNECTIONS MUST BE MADE BY APPROPRIATE TRADES.
4. ALL BUILDING PENETRATIONS REQUIRED FOR FOOD SERVICE EQUIPMENT INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SEALED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. ALL WALL SUPPORT (BLOCKING) FOR WALL HUNG EQUIPMENT SHALL BE PROVIDED BY GENERAL CONTRACTOR PER PLAN.
6. GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER WORKING CONDITION AND MEETING CURRENT LOCAL CODE REQUIREMENTS FOR ANY / ALL EQUIPMENT LISTED ON THESE PLANS AS 'EXISTING'.
7. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND WALL LOCATIONS. ALL DIMENSIONS ARE TO FINISHED WALL AND/OR CENTER LINES OF COLUMNS.
8. ANY DIMENSIONS LABELED "HOLD" OR "CRITICAL" MUST MAINTAIN THAT FINISHED DIMENSION. ALL CORNERS TO BE 90° OR AS SPECIFIED. ANY DISCREPANCIES WITH SPECIFIED DIMENSIONS REQUIRING TRIM OR EQUIPMENT MODIFICATION IS TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR AT THEIR EXPENSE.
9. GENERAL CONTRACTOR / OWNER SHALL BE RESPONSIBLE FOR INSURING THAT ALL ADDENDA AND CHANGES TO BUILDING PLANS WHICH ARE MADE PRIOR TO AND DURING CONSTRUCTION ARE PROVIDED TO TROPICAL SMOOTHIE CAFE.
10. THESE DRAWINGS ARE NOT MEANT TO REPLACE ARCHITECTURAL OR ENGINEERING PLANS. IF DISCREPANCIES EXIST, REFER TO THE ARCHITECTS CONSTRUCTION DOCUMENTS.
11. THE LATEST DATED REVISION SUPERSEDES AND VOIDS ALL PREVIOUS DRAWINGS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COLLECTING ALL OLD COPIES OF THE PLAN SET & DISTRIBUTING CURRENT COPIES TO ALL SUBCONTRACTORS.
12. REFER TO THE EQUIPMENT VENDOR WITH ANY CONCERNS OR QUESTIONS REGARDING DELIVERY AND STORAGE OF EQUIPMENT.
13. FOLLOWING FINAL FIXTURES INSTALLATION THE GENERAL CONTRACTOR SHALL CLEAN-UP AND DISPOSE OF ALL TRASH, CARTONS, CREATES, DEBRIS, ETC.
14. GENERAL CONTRACTOR TO REPLACE ALL HVAC FILTERS ONCE CONSTRUCTION IS COMPLETE
15. GC MUST LOCATE THE EXISTING MAIN SEWER WASTE LINE PRIOR TO ISSUANCE OF PERMIT. GC TO INCLUDE CAMERA / X-RAY OF SLAB FOR LOCATION OF WASTE LINE WITHIN BID. GC MUST PROVIDE SKETCH TO PLUMBING ENGINEER PRIOR TO PERMIT ISSUANCE. IF RECEIVED AFTER PERMIT ISSUANCE ANY COST TO REVISE PLANS WILL BE BILLED TO THE GENERAL CONTRACTOR.

ABBREVIATION KEY

ABBR.	ABBREVIATION DESCRIPTION
F	FRANCHISEE
EV	EQUIPMENT VENDOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
CC	CONTRACTOR'S CHOICE
LJ	LOCAL JURISDICTION
SC	SIGN COMPANY
VLL	VERIFY WITH LANDLORD
V	VENDOR
M	MICROS
RTG	RETAIL TECHNOLOGY GROUP
UMI	ULTERIOR MOTIVES INTERNATIONAL
HL	HERMITAGE LIGHTING
MMM	MUZAK (MOOD MEDIA)
C	CINTAS
UC	UTILITY COMPANY
SFS	SEE FINISH SCHEDULE
SPS	SEE PLUMBING SCHEDULE

RESPONSIBILITY MATRIX

NO.	QTY	EQUIPMENT DESCRIPTION	PROVIDER	VENDOR	INSTALLER
		GENERAL REQUIREMENTS (DIVISION 1)			
*		BUILDING PERMIT	F	LJ	
		PERMIT FEES	F	LJ	
		UTILITIES	F	UC	
		FIELD VERIFY ALL EXISTING CONDITIONS	GC	GC	
		TEMPORARY FACILITIES	GC	CC	GC
		TRASH REMOVAL / CLEAN UP	GC	CC	GC
		CONCRETE (DIVISION 3)			
		NEW PATIO POUR AT EXISTING SIDEWALK	GC	CC	GC
		SLAB - NEW POUR / EXISTING	GC	CC	GC
		FLOOR/SLAB MOISTURE TEST	GC	CC	GC
		METALS, WOOD & PLASTICS (DIVISION 5 & 6)			
		KNEE WALLS	GC	GC	GC
		WALLS / BULKHEADS	GC	CC	GC
		RAILINGS, SUPPORTS, BRACKETS	GC	CC	GC
		STRUCTURAL STEEL, SUPPORTS, BRACES, ETC	GC	CC	GC
		FRAMING / CARPENTRY	GC	CC	GC
		WALL CABINETS	F	EV	EV
		SOLID SURFACE COUNTER TOP	F	EV	EV
		BUTCHER BLOCK COUNTER TOP	F	EV	EV
		MILLWORK SOFFIT	F	EV	EV
		THERMAL & MOISTURE PROTECTION (DIVISION 7)			
		ROOF PENETRATIONS	GC	CC	GC
		EXHAUST FAN CURB ON ROOF	GC	CC	GC
		DOORS & WINDOWS (DIVISION 8)			
		NEW DOORS, FRAMES & HARDWARE	GC	CC	GC
		NEW GLASS STOREFRONT	GC	CC	GC
		FINISHES (DIVISION 9)			
		WALL FINISHES (GYPSUM BOARD & FRP PER PLAN)	GC	CC	GC
		WALL FINISHES (PAINT, TILE, SPECIALTY)	GC	SFS	GC
		CEILING AND SUSPENSION GRID	GC	SFS	GC
		WOOD TRIM / FINISHES	GC	SFS	GC
		FLOORING FINISHES	GC	SFS	GC
		WALL BASE	GC	SFS	GC
		FIRE RATED PENETRATIONS CAULK & SEALANTS	GC	CC	GC
		SPECIALTIES (DIVISION 10)			
		SIGNAGE PERMIT (EXTERIOR) & INSTALL	F	SC	SC
		INTERIOR SIGNS	F	EV	EV
		RESTROOM ACCESSORIES	GC	GC	GC
**		FIRE EXTINGUISHERS	GC	GC	GC
		EQUIPMENT (DIVISION 11)			
		ALL KITCHEN EQUIPMENT (UNLESS NOTED)	F	EV	EV
		POS SYSTEMS AND MONITORS	F	M	RTG
		FURNISHINGS (DIVISION 12)			
		FURNISHINGS (TABLES, CHAIRS, STOOLS)	F	EV	EV
		MARKET PLACE CABINET	F	EV	EV
		MENU BOARDS	F	EV	EV
AG-1		FOOD MONTAGE PHOTO	F	EV	GC
AG-2		DOCK PHOTO	F	EV	GC
AG-3		BEACH HUT PHOTO	F	EV	GC
AG-4		SURF BOARD PHOTO	F	EV	GC
***		WARE WASHING DETERGENT	F	C	C
		SPECIAL CONSTRUCTION (DIVISION 13)			
		SURVEILLANCE SYSTEM	F	VLL	V
		SECURITY SYSTEM	F	VLL	V
***		MUSIC/ENTERTAINMENT	F	MMM	V
		FIRE SPRINKLER	GC	VLL	GC
		FIRE ALARM	GC	VLL	GC
		MECHANICAL (DIVISION 15)			
		PLUMBING ROUGH-IN DWV & H2O DISTRIBUTION	GC	CC	GC
		RESTROOMS TOILETS AND SINKS	GC	SPS	GC
		WATER HEATER	GC	SPS	GC
		WALK-IN COOLER & FREEZER BOX	F	EV	GC
		NEW HVAC IF APPLICABLE	GC	CC	GC
		MECH CONNECTIONS/DUCT/DIFFUSERS/CONTROLS	GC	CC	GC
		TEST & BALANCE	GC	CC	GC
		PLUMBING CERTS & WATER TESTS	GC	CC	GC
		ELECTRICAL (DIVISION 16)			
		ELECTRICAL ROUGH-IN WIRING	GC	CC	GC
		ELECTRICAL PANELS	GC	CC	GC
***		LIGHTING FIXTURES AND CONTROLS	GC	HL	GC
		TELECOMMUNICATIONS	F	UC	UC
		POS WIRING AND INSTALLATION	F	M	RTG

- \* PROVIDED BY FRANCHISEE VIA PROJECT COORDINATOR
- \*\* LOCATION TO BE DETERMINED BY LOCAL FIRE JURISDICTION AUTHORITY
- \*\*\* PREFERRED VENDOR

CONSTRUCTION NOTES

ARCHITECT'S DESIGN WITHOUT CONSTRUCTION PHASE SERVICES

SINCE DIRECT CONSTRUCTION OBSERVATIONS AND REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INCLUDED AS PART OF THE ARCHITECTS BASIC SERVICES, IT IS UNDERSTOOD THAT SUCH RESPONSIBILITIES WILL BE ASSUMED BY OTHERS. FM GROUP INC AVAILS ITSELF TO THE CLIENT, THE CONTRACTOR, AND ANY OTHER PARTIES AS NECESSARY (VIA TELEPHONE, FAX, AND EMAIL) IN ORDER TO ASSIST IN PROVIDING CLARIFICATIONS OR RESOLVING ISSUES AND PROBLEMS THAT MAY ARISE. ALTHOUGH MANY ISSUES CAN BE EASILY ADDRESSED WITHOUT THE ARCHITECTS INVOLVEMENT, THERE ARE TIMES WHEN PARTICIPATION IS ADVISABLE. DETERMINATION OF WHEN INVOLVEMENT IS APPROPRIATE IS LEFT TO THE PROFESSIONAL DISCRETION OF THE CONTRACTOR. IT IS UNDERSTOOD THAT THE CLIENT AND/OR THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE DRAWINGS, AND ANY OTHER SUPPLEMENTAL INFORMATION, AND WHEN THE ARCHITECT IS DENIED THE OPPORTUNITY TO PROVIDE CLARIFICATIONS OR PARTICIPATE IN CHANGES TO THE DESIGN OR THE RESOLUTION OF ISSUES OR PROBLEMS, ALL PARTIES WAIVE ANY CLAIMS AGAINST THE ARCHITECT THAT MAY BE IN ANY WAY CONNECTED THERETO. FM GROUP INC IS HELD HARMLESS FROM LOSS, CLAIM, OR COSTS ARISING OR RESULTING FROM MODIFICATIONS OR CHANGES MADE TO THE DESIGN (WITHOUT THE KNOWLEDGE OF THE ARCHITECT) DUE TO CONDITIONS OR CIRCUMSTANCES (ANTICIPATED OR NOT) BEYOND THE ARCHITECT'S CONTROL.

MECHANICAL, PLUMBING AND ELECTRICAL NOTES

1. THE RELATIONSHIP BETWEEN FLOOR SINKS AND NEW WALLS IS CRITICAL TO THE FINAL FIXTURE / EQUIPMENT LAYOUT. FLOOR SINKS AS SHOWN ON THE PLUMBING PLANS ARE DIMENSIONALLY LOCATED OFF OF NEW PARTITIONS, AND THEREFORE THE CONTRACTOR MUST COMPLETE PLAN LAYOUT ON SLAB PRIOR TO FINAL LOCATION OF FLOOR SINKS FOR ACCURATE FINAL PLACEMENT.

G.C. COMPLIANCE:  
OWNER'S GENERAL CONTRACTOR SHALL VISIT THE PREMISES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL REPORT ALL DISCREPANCIES TO TENANT'S ARCHITECT. TENANT'S GENERAL CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS REGARDING CONSTRUCTION PROCEDURES, INSURANCE, ETC., AS SEAT FORTH BY THE LANDLORD.

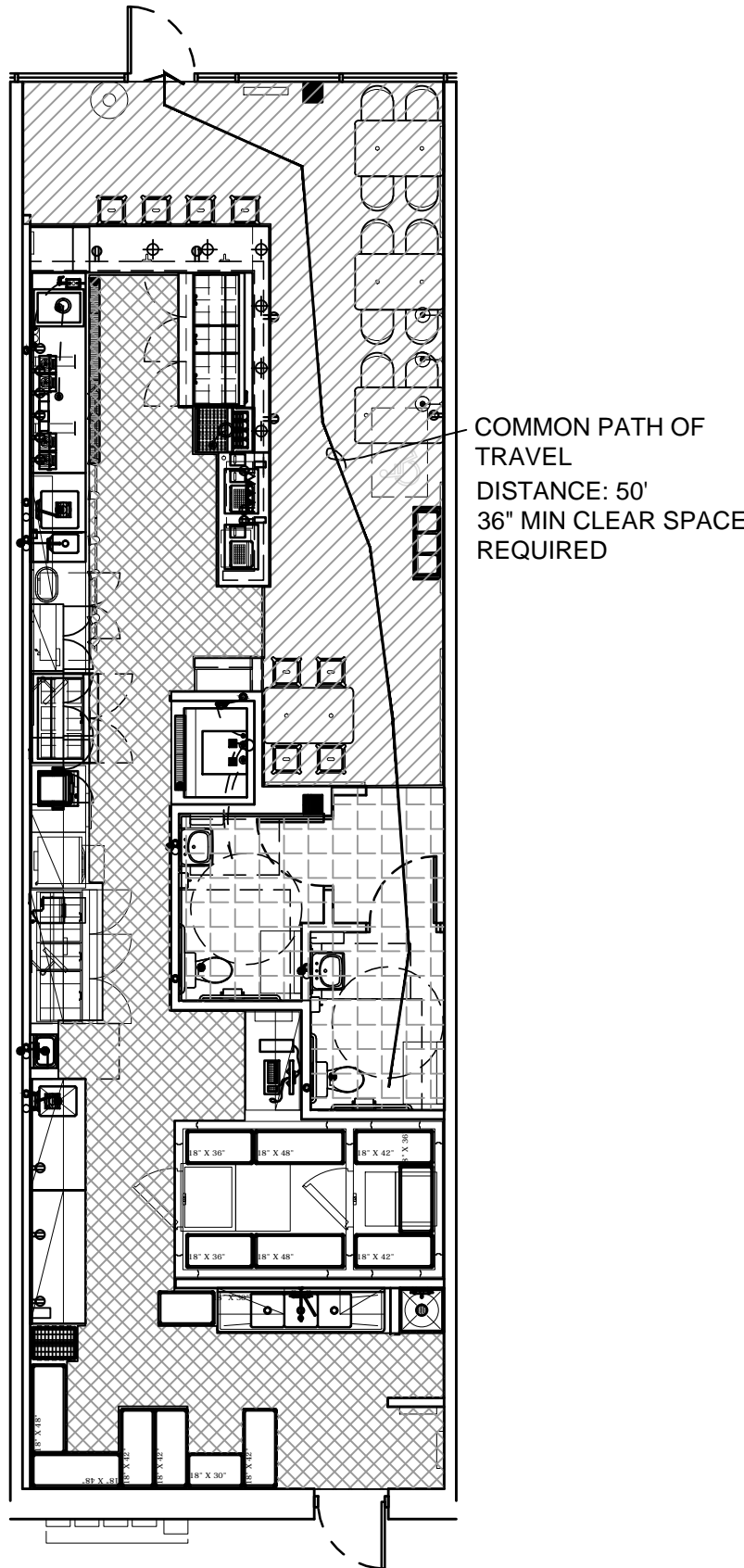
G.C. COMPLIANCE:  
OWNER'S SIGNAGE CONTRACTOR SHALL PREPARE SIGNAGE SHOP DRAWINGS AND SUBMIT TO BUILDING DEPT. & LANDLORD FOR APPROVAL. ALL SIGNAGE IS UNDER SEPARATE PERMIT.

- KITCHEN/ SERVICE AREA  
TOTAL SF: 320 SF / 200 =  
2 OCCUPANTS
- RESTROOM / HALLWAY  
AREAS  
TOTAL SF: 140 SF / 0 =  
0 OCCUPANTS
- DINING AREAS  
TOTAL SF: 320 SF / 15 = 22
- TOTAL OCCUPANT LOAD:  
24 OCCUPANTS
- LESS THAN 50 = 1 EXIT  
REQUIRED.

ACTUAL SEATING: 19  
NOTE: ALL NON FIXED  
SEATS SHOWN

EGRESS / OCCUPANCY PLAN

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



ND ENTERPRISES, LLC

6501 E. GREENWAY PKWY #103-707 SCOTTSDALE, AZ 85254  
P 480-297-5577 www.ndentaz.com

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3715 SOUTH ORLANDO DRIVE #400  
SANFORD, FL 32773  
STORE #FL-278

tropicalCAFE  
SMOOTHIE  
eat better. feel better.

TSC: FL-278

REVISION

- 1
- 2
- 3

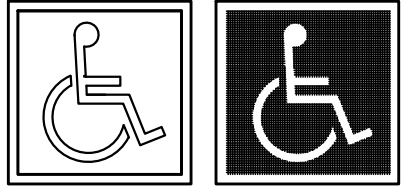
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REVIEW SET  
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PERMIT

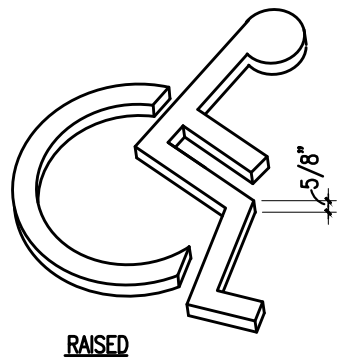
SCHEDULE  
EGRESS PLAN

A1.1

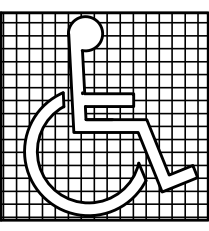




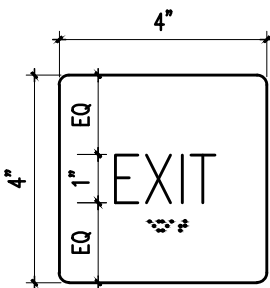
INTERNATIONAL ACCESSIBILITY SYMBOL



UNISEX RESTROOM



PROPORTIONS  
INTERNATIONAL SIGN OF ACCESSIBILITY



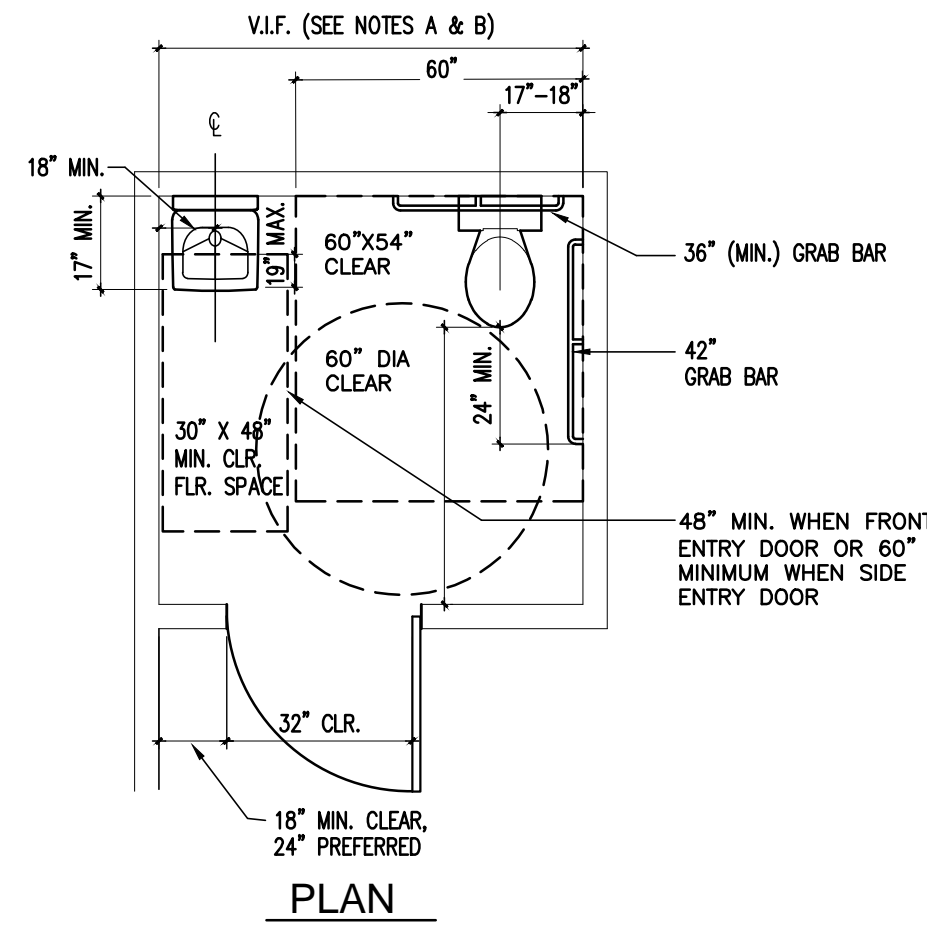
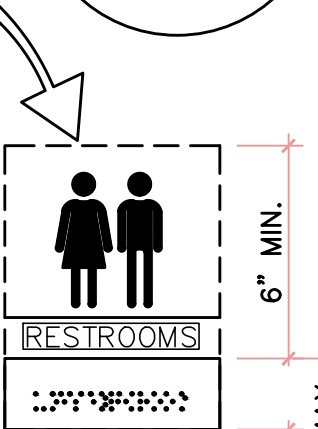
#### LETTERS AND NUMBERS:

- LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
- RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH.
- PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 3/4" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF UPPERCASE "I".
- CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL, WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
- ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.6. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
- ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.
- BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.
- INTERNATIONAL SYMBOL OF ACCESSIBILITY:
  - STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
  - WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595A.
  - WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.
- USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.
- 0.2 INCH SPACE BETWEEN CELLS.
- DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

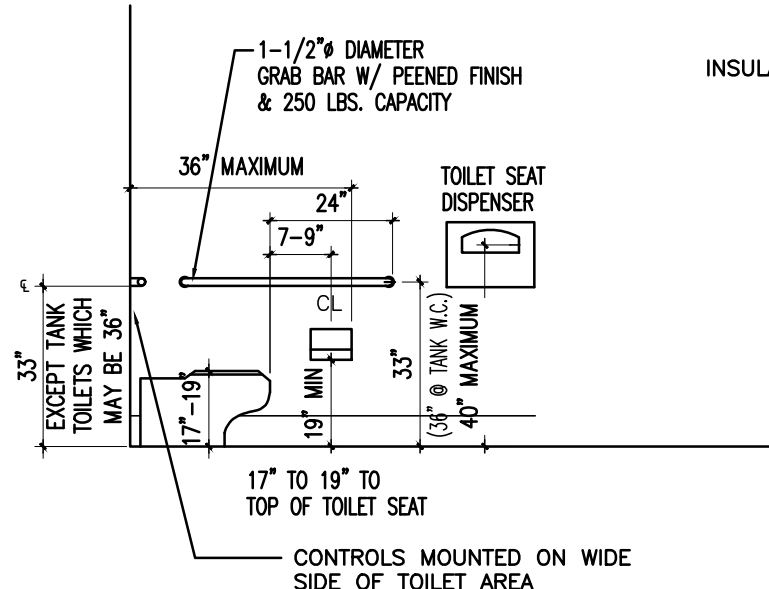
#### TACTILE SIGNAGE

- WHEN SIGNS IDENTIFY A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, OR WHEN SIGNS DIRECT OR GIVE INFORMATION ABOUT A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, CORRESPONDING TACTILE SIGNAGE SHALL BE INSTALLED.
- WHEN SIGNS IDENTIFY, OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURE OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY OR PICTOGRAM, WITH THE EQUIVALENT VISUAL AND TACTILE DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE BORDER OF THE PICTOGRAM SHALL BE MINIMUM 6" IN HEIGHT.
- VISUAL CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT. THE HEIGHT OF VISUAL CHARACTERS SHALL BE A MINIMUM 5/8" PLUS 1/8" PER FOOT OF VIEWING DISTANCE OVER SIX FEET. CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 30%. TACTILE SIGNAGE DUPLICATING THE INFORMATION SHALL BE PROVIDED, EITHER AS PART OF THE VISUAL SIGN OR A SEPARATE TACTILE SIGN PROVIDED.
- TACTILE CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT, RAISED 1/32" OFF THE BACKGROUND. THE HEIGHT OF TACTILE CHARACTERS SHALL BE BETWEEN 5/8" AND 2". CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 15%. CHARACTERS SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE.
- GRADE 2 BRAILLE SHALL HAVE DOMED OR ROUNDED DOTS RAISED 1/40" OFF THE BACKGROUND, WITH DOTS SPACED 1/10" WITH-IN CELLS, AND 1/4" BETWEEN CELLS. (OR SPACED PER ANSI TABLE 703.5)
- TACTILE SIGNS SHALL BE MOUNTED 48" MINIMUM, AND 60" MAXIMUM ABOVE THE FLOOR TO THE CENTERLINE OF THE SIGN. AN 18" X 18" CLEAR SPACE IS REQUIRED IN FRONT OF THE TACTILE SIGN, BEYOND THE ARC OF ANY DOOR SWING, WHERE SIGNS ARE MOUNTED AT DOORS. THE SIGN SHALL BE ON THE LATCH SIDE OF THE DOOR, WHERE SIGNS ARE MOUNTED AT DOUBLE DOORS, OR WHERE THERE IS NO WALL SPACE, THE SIGN SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL, PREFERABLY THE RIGHT SIDE.
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. CHARACTERS, SYMBOLS AND BACKGROUNDS SHALL HAVE A NON-GLARE FINISH.

RESTROOM IDENTIFICATION SYMBOLS, COLOR TO CONTRAST WITH DOOR COLOR. ISA IS REQUIRED FOR THE RESTROOM DOOR.

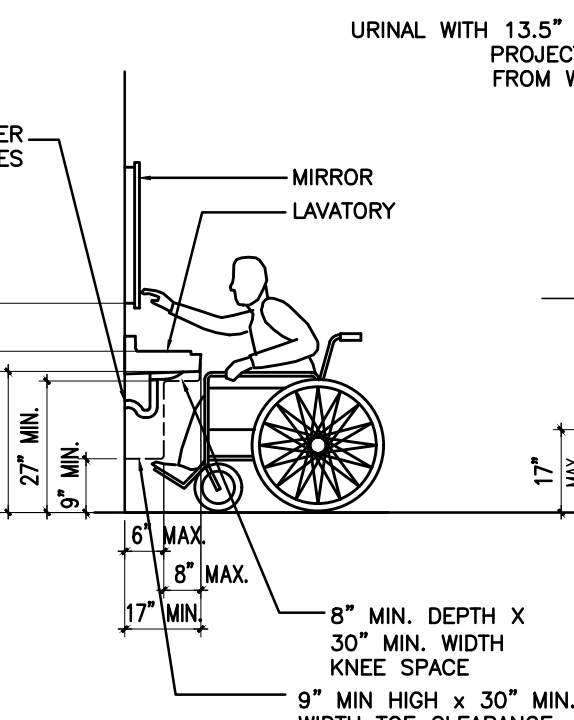


TYPICAL LAVATORY REQUIRED CLEARANCES

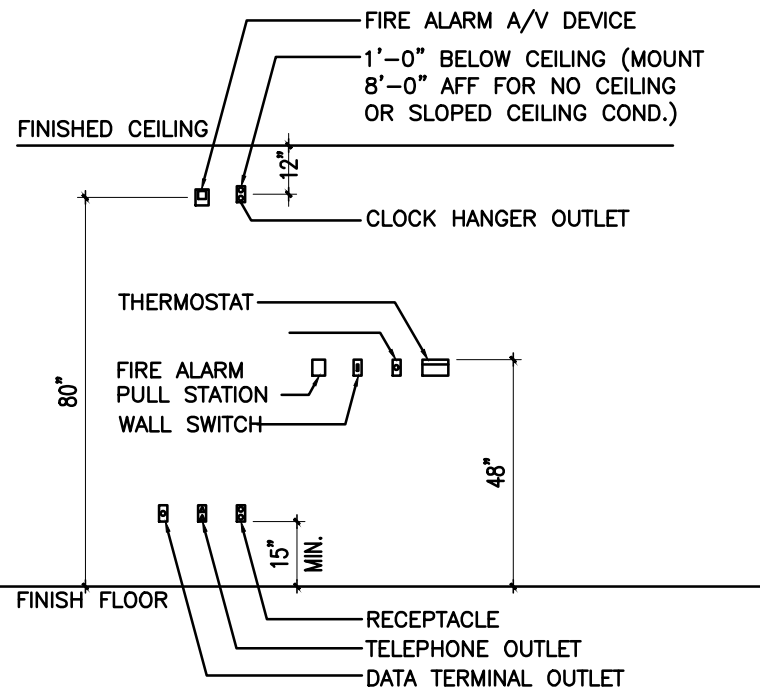
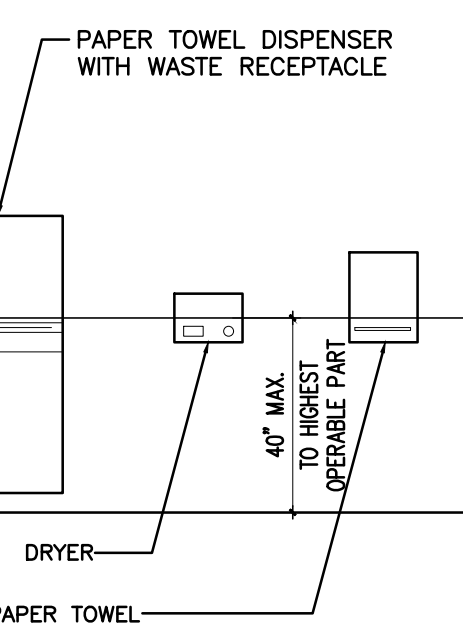


ELEVATIONS

- NOTE:
- PROVIDE PRIVACY DOOR LOCK WHEN IT IS A PRIVATE TOILET OR FOR UNISEX USE.
  - GRAB BARS; SEE TYPICAL ACCESSIBILITY NOTES SHEET.
  - THERE SHALL BE NO SHARP ABRASIVE SURFACES UNDER LAVATORIES.
  - ALL HOT WATER AND ALL DRAIN PIPES MUST BE INSULATED OR OTHERWISE COVERED.



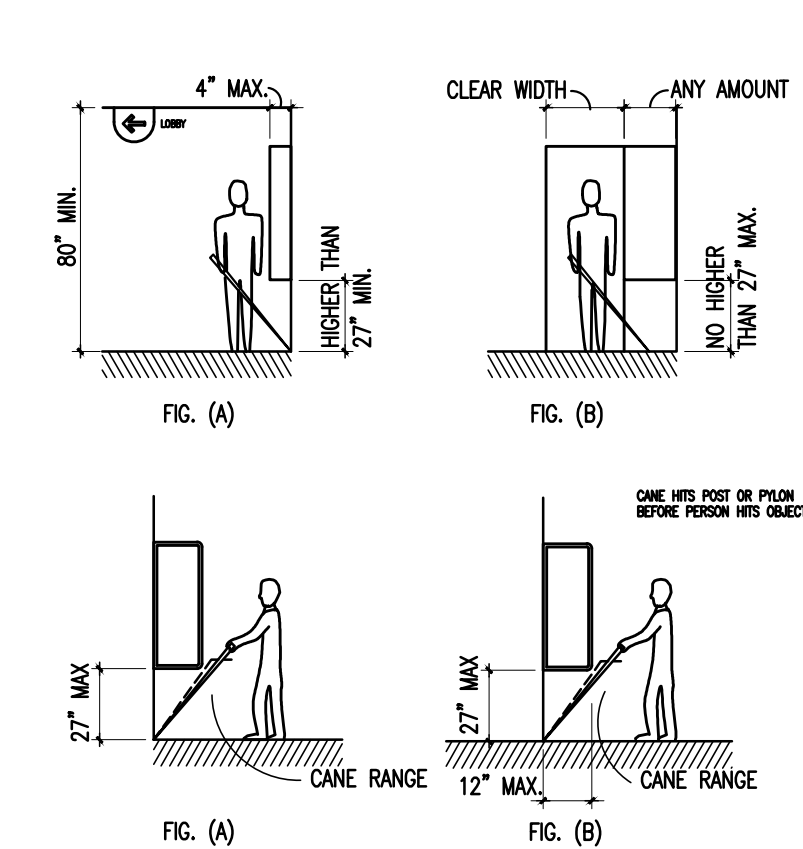
KNEE AND TOE CLEARANCES



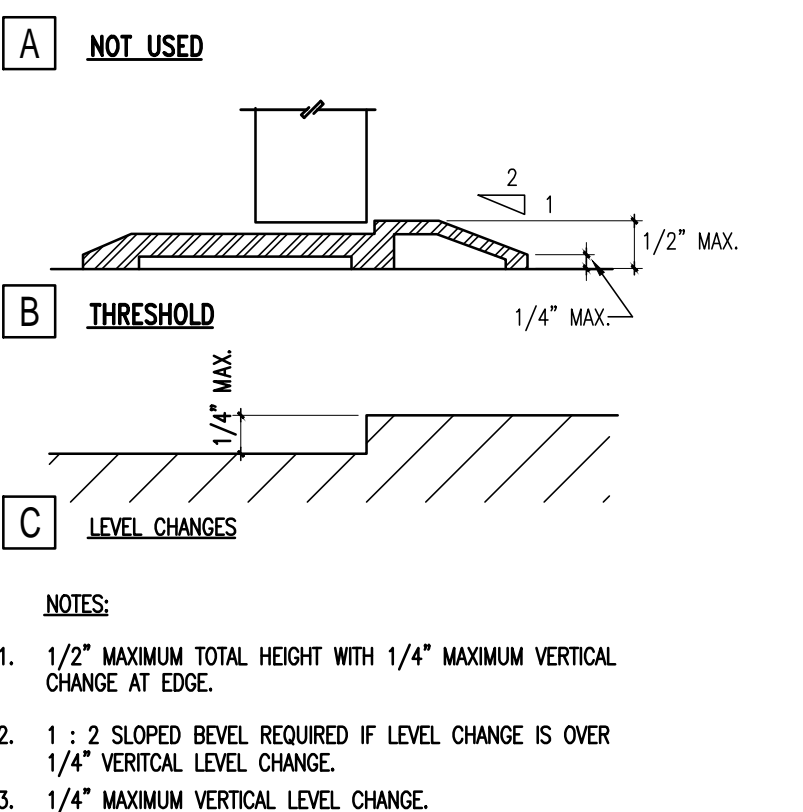
#### 1 SIGNS PICTOGRAMS

#### 2 TACTILE SIGNAGE

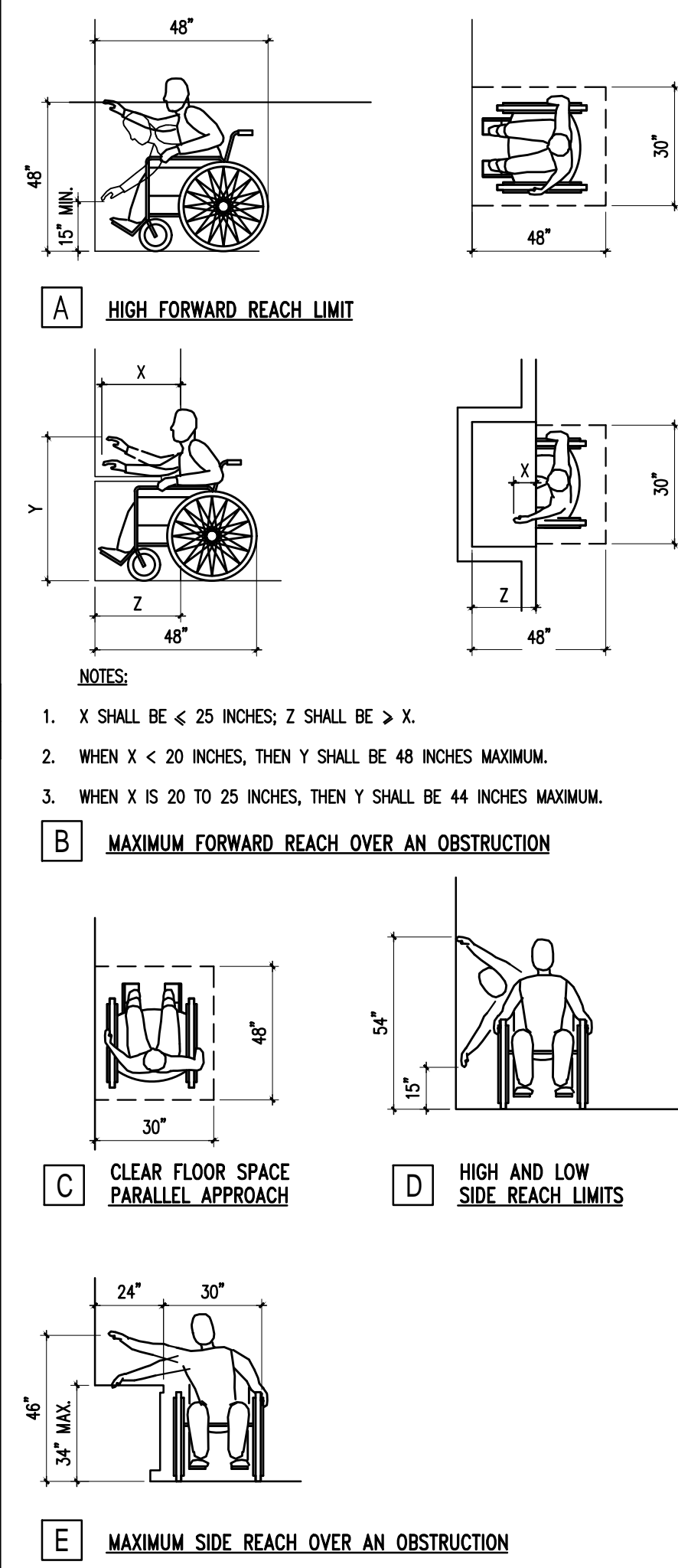
#### 3 RESTROOM CLEARANCES



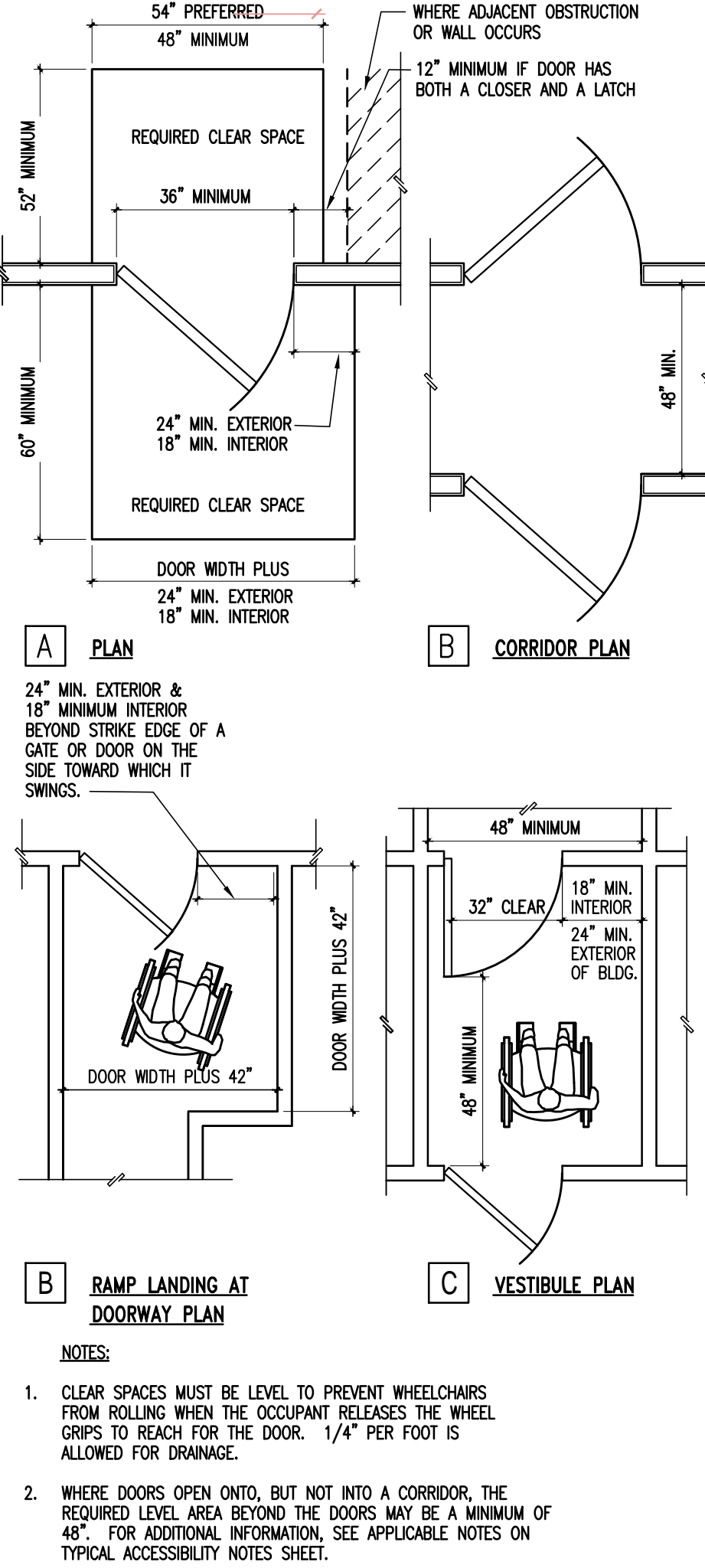
#### 4 PROTRUDING OBJECTS



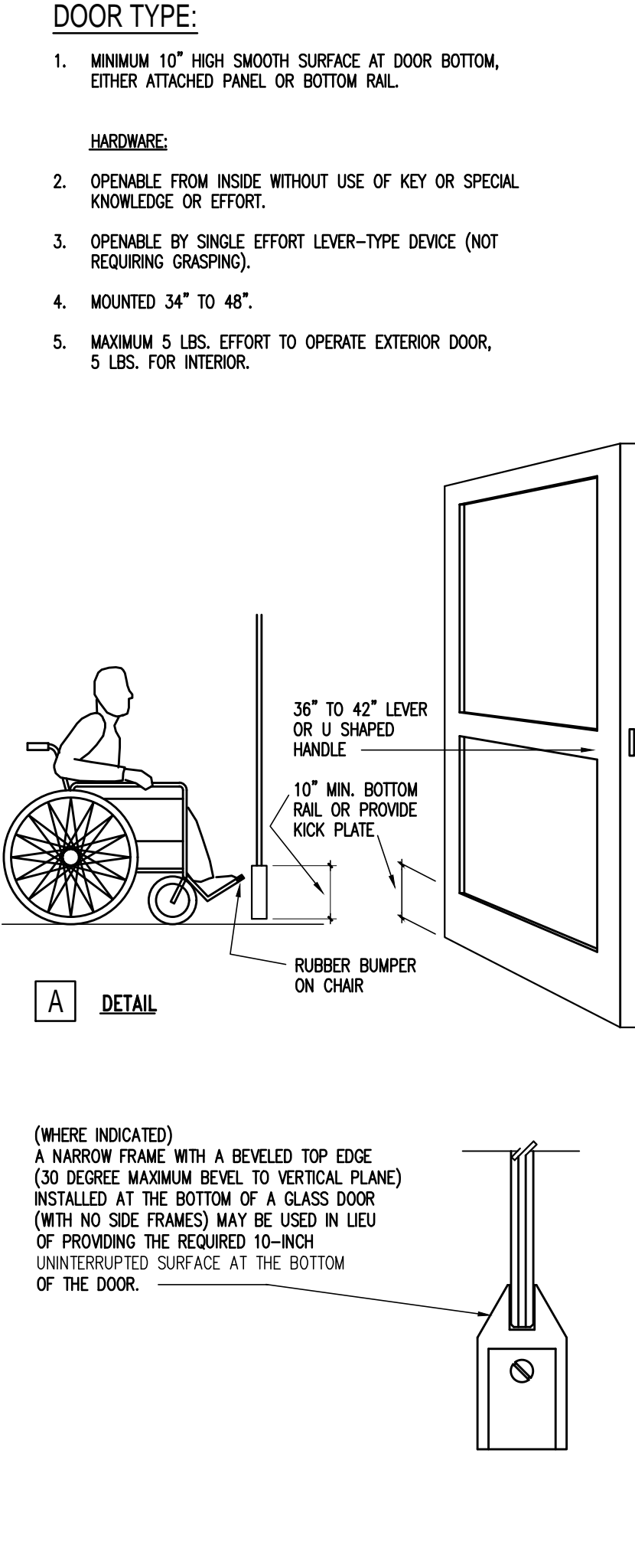
#### 5 THRESHOLD LEVEL CHANGES



#### 6 REACH REQUIREMENTS



#### 7 DOOR CLEAR SPACE

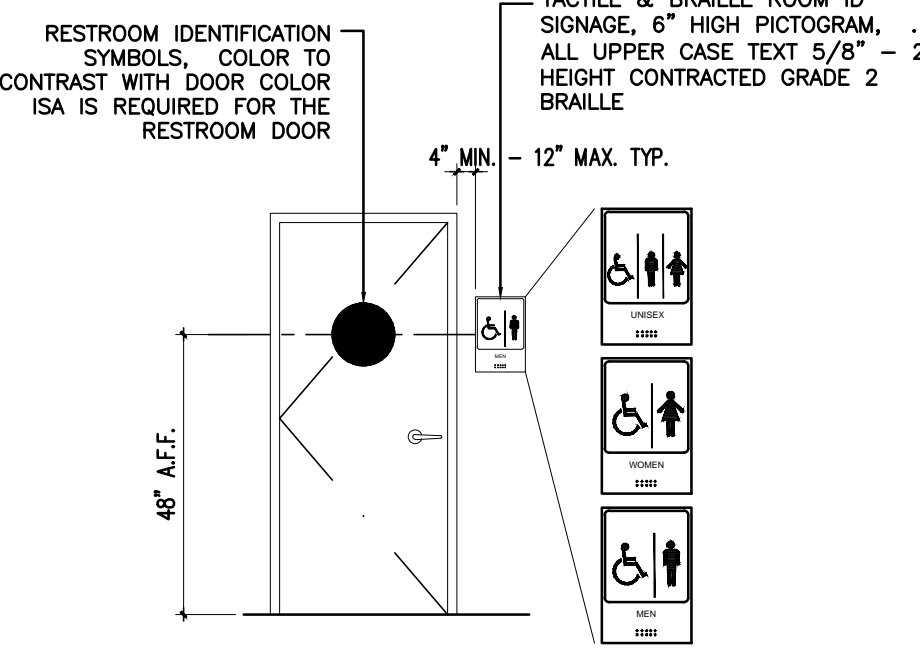


#### 8 DOOR

#### ACCESSIBLE RESTROOM REQUIREMENTS

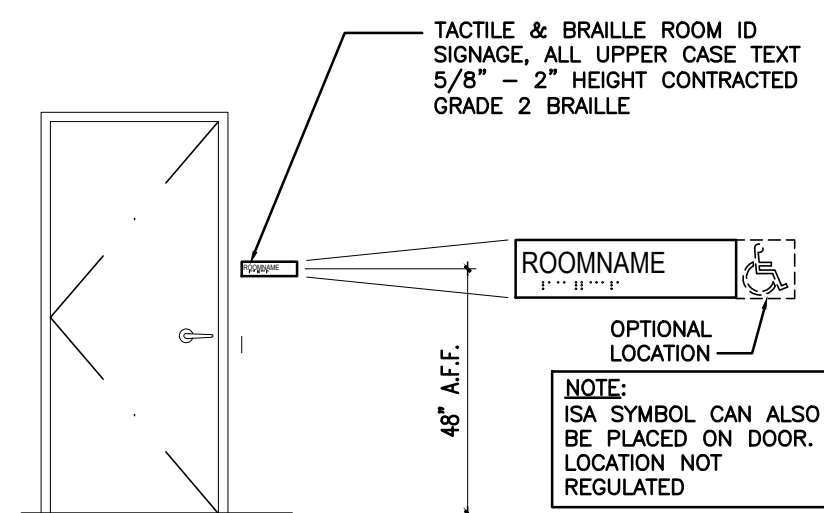
- A CLEAR FLOOR SPACE MEASURED FROM THE FLOOR TO A HEIGHT OF 27" ABOVE THE FLOOR, WITHIN THE SANITARY FACILITY ROOM, OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE DIAMETER NOT LESS THAN 60" IN SIZE. OTHER THAN THE DOOR TO THE ACCESSIBLE WATER CLOSET COMPARTMENT, A DOOR IN ANY POSITION, MAY ENCRoACH INTO THIS SPACE BY NOT MORE THAN 12".
- DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED FOR ANY FIXTURE.
- ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL COMPLY WITH THE FOLLOWING:
  - THE COMPARTMENT SHALL BE A MINIMUM OF 60" WIDE.
  - IF THE COMPARTMENT HAS A SIDE-OPENING DOOR, A MINIMUM 60" WIDE AND 60" DEEP CLEAR FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.
  - IF THE COMPARTMENT HAS AN END-OPENING DOOR (FACING THE WATER CLOSET) A MINIMUM 60" WIDE AND 48" DEEP CLEAR FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. THE DOOR SHALL BE LOCATED IN FRONT OF THE CLEAR FLOOR SPACE AND DIAGONAL TO THE WATER CLOSET, WITH A MAXIMUM STILE WIDTH OF 4".
  - THE WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WITH 32" WHEN LOCATED AT THE END AND A 34" WHEN LOCATED AT THE END AND A 34" WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
  - MANEUVERING SPACE AT THE COMPARTMENT DOOR SHALL COMPLY WITH SECTIONS 1133B.2.4.2 AND 1133B.2.4.3 EXCEPT THAT THE SPACE IMMEDIATELY IN FRONT OF THE WATER CLOSET COMPARTMENT SHALL NOT BE LESS THAN 48" AS MEASURED AT RIGHT ANGLES TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION.
- IN OTHER THAN DWELLING UNITS, TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTEND UPWARD ONTO WALLS AT LEAST 5". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND EXCEPT FOR STRUCTURAL ELEMENTS; THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.
- PROVIDE ONE ACCESSIBLE LAVATORY IN COMPLIANCE WITH SECTION 1115B.4.3.
- THE CENTERLINE OF THE WATER CLOSET FIXTURE SHALL BE 18" FROM THE SIDE WALL OR PARTITION. ON THE OTHER SIDE OF THE WATER CLOSET, PROVIDE A MINIMUM OF 28" WIDE CLEAR FLOOR SPACE IF THE WATER CLOSET IS ADJACENT TO A FIXTURE OR A MINIMUM OF 32" WIDE CLEAR FLOOR SPACE IF THE WATER CLOSET IS ADJACENT TO A WALL OR PARTITION. THIS CLEAR FLOOR SPACE SHALL EXTEND FROM THE REAR WALL TO THE FRONT OF THE WATER CLOSET.
- A MINIMUM 60" WIDE AND 48" DEEP CLEAR FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.
- THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17" AND A MAXIMUM OF 19" MEASURES TO THE TOP OF A MAXIMUM 2" HIGH TOILET SEAT.
- GRAB BARS SHALL EXTEND 24" IN FRONT OF WATER CLOSET.

Tactile characters on signs shall be located 48" minimum above the finish floor measured from the baseline of the lowest braille cells and 60" maximum above the finish floor or ground surface.



TYPICAL TOILET ROOM IDENTIFICATION SIGNAGE

Tactile characters on signs shall be located 48" minimum above the finish floor measured from the baseline of the lowest braille cells and 60" maximum above the finish floor or ground surface.



TYPICAL PERMANENT ROOM IDENTIFICATION SIGNAGE

#### 9 ACCESSIBLE ENTRY SIGNAGE AND NOTES



GENERAL DEMO NOTES NOTE: NOT ALL APPLY

1. GENERAL CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, INSURANCE, PROTECTION AND OTHER RELATED SERVICE REQUIRED TO COMPLETE ALL DEMOLITION WORK FOR THE TENANT IMPROVEMENTS.
2. GENERAL CONTRACTOR TO COORDINATE WITH TENANT, PHASING AND/OR TIMING OF COMMENCEMENT, CONTINUATION AND COMPLETION OF ALL DEMOLITION WORK.
3. GENERAL CONTRACTOR SHALL COORDINATE WITH LANDLORD, ANY WORK AFFECTING THE CONTINUITY OF UTILITIES SERVICING OTHER TENANTS ON THE PROPERTY. GENERAL CONTRACTOR SHALL PROTECT ALL UTILITIES SERVING OTHER TENANTS, PEOPLE AND EXISTING AND/OR ADJACENT CONSTRUCTION AND OTHER AREAS FROM DAMAGE INCIDENTAL TO CONSTRUCTION OPERATIONS WITH CONSTRUCTION BARRICADES IN ACCORDANCE WITH CODES AND ORDINANCES OF THE CITY OF WESTMINSTER, CA.
4. GENERAL CONTRACTOR SHALL REPAIR OR RESTORE TO EXISTING CONDITION ADJACENT CONSTRUCTION AND PUBLIC OR PRIVATE PROPERTY DAMAGED BY DEMOLITION WORK.
5. MATERIAL SHALL NOT BE DROPPED BY GRAVITY OR THROWN OUTSIDE THE CONTRACT AREA DURING DEMOLITION. ANY MATERIAL, WHICH IN ITS REMOVAL WILL CAUSE AN EXCESSIVE AMOUNT OF DUST, SHALL BE WETTED DOWN TO PREVENT THE CREATING OF A NUISANCE.
6. ALL PARTS OF THE CONTRACT AREA UNDER DEMOLITION SHALL BE ADEQUATELY LIGHTED WHILE PERSONS ARE ENGAGED AT WORK.
7. RUBBISH AND TRASH SHALL BE REMOVED AS OFTEN AS CONDITIONS WARRANT. COMBUSTIBLE RUBBISH, SHALL BE REMOVED DAILY, AND SHALL NOT BE DISPOSED OF BY BURNING ON THE PREMISES.
8. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR HIDDEN CONDITIONS AFFECTING DEMOLITION OF PROPOSED WORK.
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SUB-TRADES WITH COMPLETE AND CURRENT DOCUMENTS.
10. UPON COMPLETION OF DEMOLITION, THE LEASED PREMISES AND ADJACENT PUBLIC AND PRIVATE PROPERTY SHALL BE LEFT CLEAN AND CLEAR OF DEBRIS.
11. VERIFY WITH ARCHITECTURAL DOCUMENTS ALL AREAS TO BE MODIFIED.
12. ALL AREAS OF MODIFICATION OR DEMOLITION, WHICH ARE INCORPORATED INTO THE NEW FACILITY, ARE TO BE PATCHED, REPAIRED, OR ADJUSTED TO AN ACCEPTABLE CONDITION.
13. CONTRACTOR SHALL PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A OR 2A10BC WITHIN 75' TRAVEL DISTANCE OF ALL PORTIONS OF THE BUILDING DURING THE DEMOLITION AND CONSTRICION.
14. GENERAL CONTRACTOR SHALL VERIFY ALL ON SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO DEMOLITION AND CONSTRUCTION.
15. PATCH ALL CONCRETE SLABS AS REQUIRED DUE TO MODIFICATIONS.
16. PROVIDE SECURITY ENCLOSURE AT ALL REMOVED DOORS OR WALLS AS REQUIRED.
17. NOTIFY BUILDING MANAGEMENT AND FIRE ALARM COMPANY OF DEMOLITION OR CONSTRUCTION WORK. FIRE ALARM SYSTEM, (IE: EXITING) IS TO REMAIN ACTIVATED AT ALL TIMES.
18. COORDINATE REMOVAL OF ALL FINISHES OF WITH BUILDING OWNER PRIOR TO START OF DEMOLITION (IF APPLICABLE).
19. EXISTING FIRE SPRINKLER SYSTEM TO REMAIN.
20. EXISTING PLUMBING LINES FOR FLOORS ABOVE TO REMAIN (IF APPLICABLE).
21. ANY EXISTING SPRAY-APPLIED FIRE PROOFING FOUND FLOOR DECK ABOVE TO REMAIN (IF APPLICABLE)

ELECTRICAL DEMOLITION GENERAL NOTES.

22. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
23. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT AND RETAIN POWER TO ALL EXISTING ACTIVE EQUIPMENT WHICH SHALL REMAIN.
24. ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY THIS CONTRACTOR UNLESS DIRECTED TO DO OTHERWISE BY OWNER, TENANT OR ARCHITECT.
25. DISCONNECT, REMOVE, OR RELOCATE ALL EXISTING ELECTRICAL MATERIAL AND EQUIPMENT THAT INTERFERES WITH THE NEW INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO LIGHTING FIXTURES, WIRING DEVICES, SIGNAL EQUIPMENT, EXHAUST FANS, ETC.
26. REMOVE ALL CONDUIT WIRE, BOXES, AND FASTENING DEVICES, AS REQUIRED TO AVOID ANY INTERFERENCE WITH THE NEW INSTALLATION. ABANDONED CONDUITS AND ALL WIRING ARE TO BE REMOVED.
27. ELECTRICAL CONTRACTOR SHALL RECONNECT ANY EQUIPMENT BEING DISTURBED BY THE RENOVATION YET REQUIRED FOR CONTINUED SERVICE TO SAME OR NEAREST AVAILABLE PANEL.
28. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVAL, NEW OR RELOCATED WALL OPENINGS, ETC.) RESULTS IN THE REMOVAL, RELOCATION OR RE-FEEDING OF ELECTRICAL DEVICES OR LIGHTING FIXTURES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.
29. ELECTRICAL CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, RECEPTACLES, J-BOXES, SWITCHES, CONDUIT, WIRING, ETC. AS INDICATED IN CONSTRUCTION DOCUMENTS.

PLUMBING AND MECHANICAL GENERAL NOTES

30. MECHANICAL CONTRACTOR SHALL VISIT THE SITE DURING BIDDING PHASE TO VERIFY ALL EXISTING MECHANICAL EQUIPMENT AND COMPARE WITH MECHANICAL PLANS FOR THIS PROJECT
31. PLUMBING CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF WASTE LINE, EXACT LOCATION AND SIZE OF WATERLINE STUBBED TO SPACE AND COMPARE TO PLUMBING PLANS FOR THIS PROJECT.



THIS PROJECT  
TROPICAL SMOOTHIE CAFE  
SUITE 300

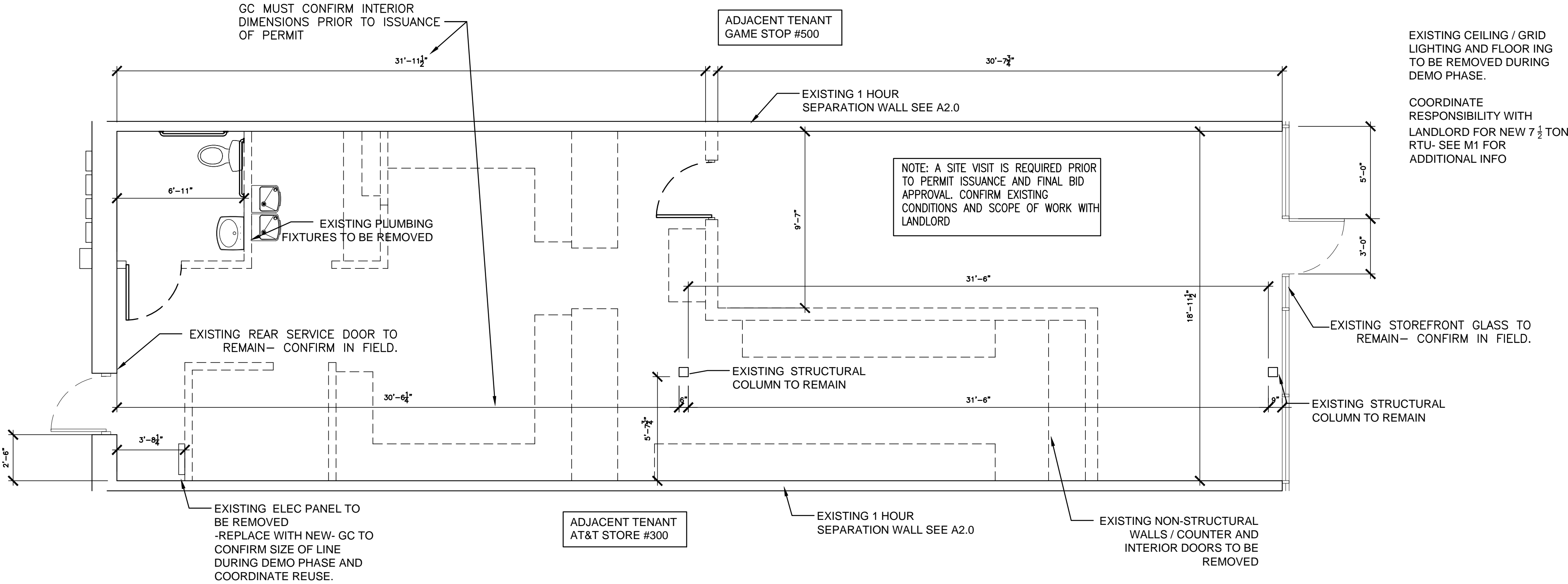
EXISTING H/C STALLS  
EXISTING H/C RAMP

HANDICAP PATH OF TRAVEL:  
DISTANCE =20'  
5% MAX SLOPE IN DIRECTION OF  
TRAVEL AND 2% MAX CROSS SLOPE

NOTE: ACCESSIBLE PARKING STALLS  
AND ACCESS AISLE TO HAVE MAX  
SLOPE OF 1:48 IN ANY DIRECTION

2 EXISTING SITE PLAN (NO NEW WORK)

SCALE: NTS



EXISTING CEILING / GRID  
LIGHTING AND FLOOR ING  
TO BE REMOVED DURING  
DEMO PHASE.

COORDINATE  
RESPONSIBILITY WITH  
LANDLORD FOR NEW 7 1/2 TON  
RTU- SEE M1 FOR  
ADDITIONAL INFO

NOTE:  
A SITE VISIT IS REQUIRED BY THE  
GC. AFTER DEMO OF CEILING- GC  
MUST CONFIRM MAX HEIGHT OF  
NEW CEILING AT 12'-0" CONTACT  
ARCHITECT IMMEDIATELY. MUST BE  
COMPLETED BEFORE PERMIT  
ISSUANCE.

NOTE:  
GC TO PROVIDE CAMERA TEST OR  
X-RAY OF SLAB TO LOCATE EXISTING  
WASTE LINES UNDER SLAB. NO SHELL  
PLANS PROVIDED. CONFIRM WITH P  
SHEETS AND CONTACT DESIGN TEAM  
IF MODIFICATIONS ARE NEEDED.  
CONFIRMATION REQUIRED PRIOR TO  
ISSUANCE OF PERMIT ISSUANCE.

1 EXISTING FLOOR PLAN

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



ND ENTERPRISES, LLC

6501 E. GREENWAY PKWY #103-707 SCOTTSDALE, AZ 85254

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- 1
- 2
- 3

DATE: 12.26.2019

REVIEW SET  
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PERMIT

SITE PLAN  
EXISTING PLAN

A1.3



GENERAL NOTES:

- ALL DIMENSIONS ARE FROM FACE OF DRYWALL, UNLESS OTHERWISE NOTED.
- ALL GYPSUM BOARD USED SHALL BE 5/8" TYPE 'X' FIRE TAPED, DEMISING PARTITIONS SHALL BE OF FIRECODE "X" SHEETROCK, TAPED AND SEALED TO DECK ABOVE.
- ALL PLYWOOD, PLYWOOD BACKING, PARTICLE BOARD, WOOD BLOCKING, AND FRAMING USED SHALL BE FIRE RETARDANT & STAMPED NON-COMBUSTIBLE.
- PLACE AND FINISH ALL NEW MATERIALS SO AS TO PROVIDE A SMOOTH & INTEGRAL TRANSITION TO EXISTING FINISHES & MATERIALS.
- PROVIDE ADDITIONAL FRAMING/BRACING FOR ALL WALL MOUNTED EQUIPMENT. CHECK CUTSHEETS OF ALL EQUIPMENT PRIOR TO INSTALLATION.
- GENERAL CONTRACTOR TO PROVIDE REQUIRED FIRE EXTINGUISHER(S) PER CODE.
- FIRE SPRINKLERS: ADDITIONS & MODIFICATIONS AS REQUIRED BY CODE AND NFPA PAMPHLET #13. SPRINKLER HEADS CENTERED WITHIN CEILING BOARD. SPRINKLER HEADS AT GYPSUM BOARD CEILINGS MUST BE FULLY RECESSED AND COVERED WITH METAL PLATES FINISHED TO MATCH ADJACENT SURFACE. CENTER SPRINKLER HEADS IN CEILING-WHERE APPLICABLE. ANY MODIFICATIONS TO BE DONE BY LANDLORD'S SPECIFIED SPRINKLER CONTRACTOR. ALL COSTS FOR SPRINKLER RE-LOCATION TO CONFORM WITH FIT OUT DESIGN ARE PROVIDED BY TENANT. - WHEN APPLICABLE.
- SEE MECHANICAL AND ELECTRICAL SHEETS FOR ALL FIXTURE SPECIFICATIONS, WIRING, AND POWER REQUIREMENTS. - VERIFY WITH EQ SHEETS.
- NEWLY INSTALLED OR RELOCATED DOORS MUST HAVE LEVER TYPE HARDWARE OR OTHER SHAPE WHICH WILL PERMIT OPERATION BY WRIST OR ARM PRESSURE AND WHICH DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING TO OPERATE. PER WAC 51.20.3103 (A) AND (C).
- ALL DOORS TO PROVIDE 32" MIN. CLEAR OPENING WHEN OPENED TO 90 DEGREE POSITION.
- FLOORS IN FOOD PREPARATION AREA, DISH WASHING AREA, SERVICE AREA, JANITORIAL AREA, STORAGE AREA, AND ANY AREA WHERE FOR EQUIPMENT IS PLACED SHALL BE SMOOTH, EASILY CLEANABLE, WASHABLE, DURABLE, AND OF COMMERCIAL GRADE MATERIAL AND SHALL HAVE A MINIMUM 3/8" RADIUS INTEGRAL COVE BASE EXTENDING AT LEAST 4" UP THE WALL. GROUT SPACING FOR TILE SHALL NOT EXCEED 1/4" AND SHALL BE SEALED.
- NOT USED.
- TENANT'S GC TO COMPLETE SITE VISIT AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - GC TO REVIEW TENANT'S LEASE DURING BID PROCESS TO DETERMINE RESPONSIBILITIES.
- FLOOR SINKS SHALL BE INSTALLED FLUSH WITH THE FLOOR SURFACE AND BE LOCATED SO AS TO BE READILY ACCESSIBLE FOR CLEANING AND REPAIR.
- SUPPORT WIRING FOR LAY-IN CEILING SHALL NOT BE ATTACHED TO ANY OF THE LANDLORD'S MECH, ELEC, PLUMB, OR FIRE PROTECTION PIPING OR EQUIPMENT.
- ALL EXITS SHALL BE OPERABLE FROM INTERIOR OF BUILDING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

WALL LEGEND:

- EXISTING WALL TO REMAIN. VERIFY CONDITION PATCH AND REPAIR TO LIKE NEW CONDITION - GC TO VERIFY FIRE RATING IF APPLICABLE.
- EXISTING 1 HOUR RATED DEMISING WALL BY LANDLORD- PER LEASE. TO MATCH 17/A6.0
- 1 LAYER 5/8" GYPSUM BOARD EACH SIDE OVER 3 5/8" 20 GA METAL STUDS AT 16" O.C. TO CEILING. BRACE STUDS @ 4'-0" O.C. PROVIDE 5 8" MTL STUDS AT ALL 7" NOMINAL WALLS.

NOTE:  
ALL EXPOSED CMU BLOCK MASONRY WALLS SHALL BE FURRED OUT WITH 1 1/2" METAL STUDS WITH GYP BOARD (TYP)

NOTE: DIMENSIONED TO FINISHED WALL.  
NOTE: ALL EXTERIOR WALLS TO BE INSULATED.

KEYED NOTES:

- EXISTING DEMISING WALL BY LANDLORD GC-SEE NOTES ON A1.3- TENANT'S GC TO CONFIRM IN FIELD A 1 HOUR RATED WALL PER 17/A6.0
- METAL SHELVING RACK - 5 TIER IN HEIGHT NOT TO EXCEED 6 FEET
- NEW WALK-IN COOLER/ FREEZER- SEE EQUIPMENT PLAN
- RESTROOM HAND SINK
- ELECTRICAL PANEL- SEE ELECTRICAL DRAWINGS- GC TO CONFIRM EXISTING
- 3-COMPARTMENT SINK WITH (2) 18" INTEGRAL DRAIN BOARDS
- SERVICE COUNTER - CABINET SUPPLIER TO FURNISH SHOP DRAWINGS
- NEW FURR OUT W/ GYP BD AND FRP AT ALL EXISTING CMU WALLS- IF NEEDED
- 24" JANITORIAL MOP SINK W/ WH ABOVE (SEE PLUMBING SHEETS)
- EXISTING STRUCTURAL COLUMN TO REMAIN
- WALL-MOUNTED HAND SINK
- EXISTING STOREFRONT BY LANDLORD- SEE LEASE TO CONFIRM RESPONSIBILITY - CONFIRM MATCH TO THIS LAYOUT
- QUARRY TILE FLOORING THROUGHOUT KITCHEN & SERVICE AREA
- FIRE EXTINGUISHER
- RESTROOM FIXTURES
- NEW 3 5/8" METAL STUD WALL FURRING AND 5/8" GYP BD INSTALLED AT EXISTING DEMISING WALL.
- HANDICAP GRAB BARS WITH BLOCKING
- ELECTRICAL SERVICE ENTRANCE BY LL TO REMAIN
- NEW FLOORING IN DINING ROOM SEE SHEET A2.1
- NEW WALL - REFER TO WALL SCHEDULE
- KITCHEN EQUIPMENT- SEE EQUIPMENT SHEET A5.0
- PREP SINK W/ DRAIN BOARD
- SEATING- SEE EQUIPMENT SCHEDULE
- NEW MARKETPLACE CABINET PROVIDE BY TROPICAL SMOOTHIE CAFE AND INSTALLED BY GC. SEE 5/A6.2
- NEW OFFICE COUNTERTOP AND WALL SHELVES BY GC- SEE DETAIL 5/A4.0
- GC TO PROVIDE GYP BD AND INSULATION TO DECK IF NOT EXISTING-CONFIRM POST DEMO OF EXISTING CEILING.
- NOT USED
- HANDICAP ACCESSIBLE TABLE
- DROP-IN HAND SINK IN SERVICE COUNTER.
- EXISTING EXTERIOR DOOR AND HARDWARE BY LANDLORD. CONFIRM IN FIELD IF PROPER WORKING CONDITION PROVIDED.
- EXISTING SINGLE STOREFRONT DOOR PROVIDED BY LANDLORD.

NOTE:  
FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL TO 2 UNITS HORIZONTAL.

DOOR HARDWARE 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.

SPECIALTIES:

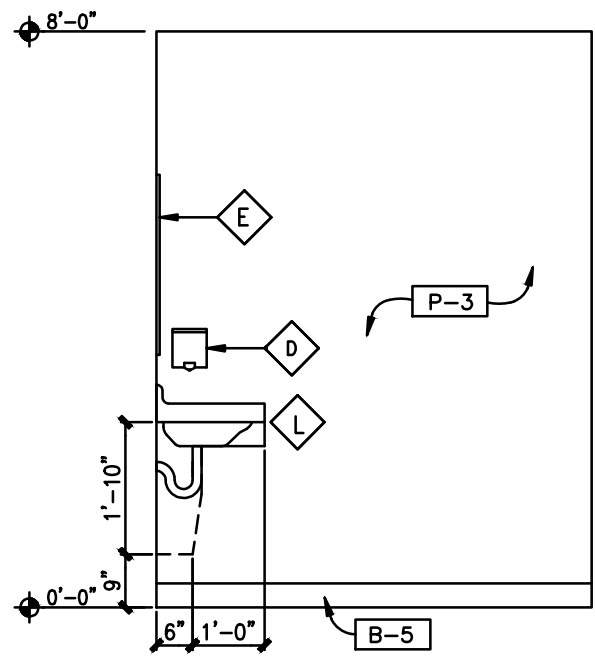
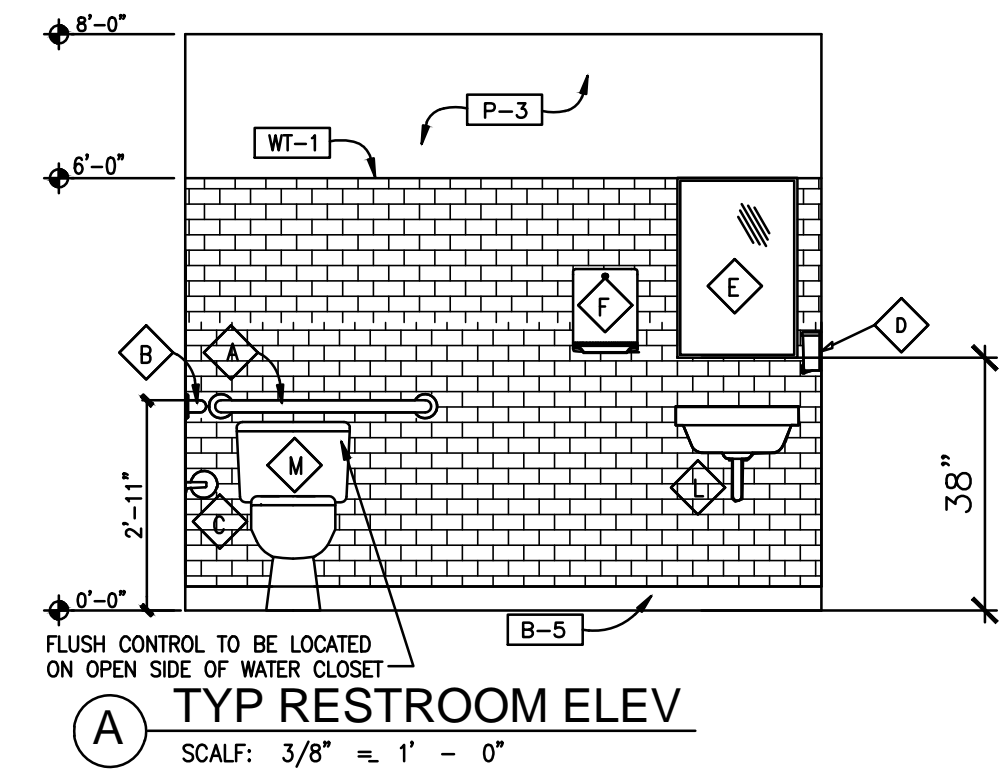
- GENERAL CONTRACTOR TO PROVIDE BLOCKING IN WALLS AS NEEDED FOR ALL WALL MOUNTED FIXTURES, SIGNS, MENU BOARD, ETC. PER DRAWINGS.
- USE FIRE TREATED WOOD FOR MISCELLANEOUS WOOD BLOCKING, ETC.
- USE STAINLESS STEEL WALL PANELS, CORNER GUARDS AND ANGLE STRIPS TO SEAL GAP TO WALL AT COOLER/FREEZER. (SEE W-2 AT WALL FINISHES)
- TABLE BASE HARDWARE
  - TABLE TOP LAG BOLTS: 1/2"x2" (4 PER BASE)
  - ANCHOR BOLTS: SIMPSON "WEDGEALL" MODEL # WA62500 (5/8"x5") COMES COMPLETE W/NUTS AND WASHERS (4 PER BASE)

NOTE:  
DURING BID PROCESS - GC TO VISIT SITE & REVIEW TENANT'S LEASE TO CONFIRM RESPONSIBILITY AGREEMENT. GC RESPONSIBLE FOR ALL TI CONSTRUCTION IE. CONCRETE POUR, ELECTRIC, PLUMBING, ROOF PENETRATIONS AND MECHANICAL ETC. ACCORDING TO LEASE

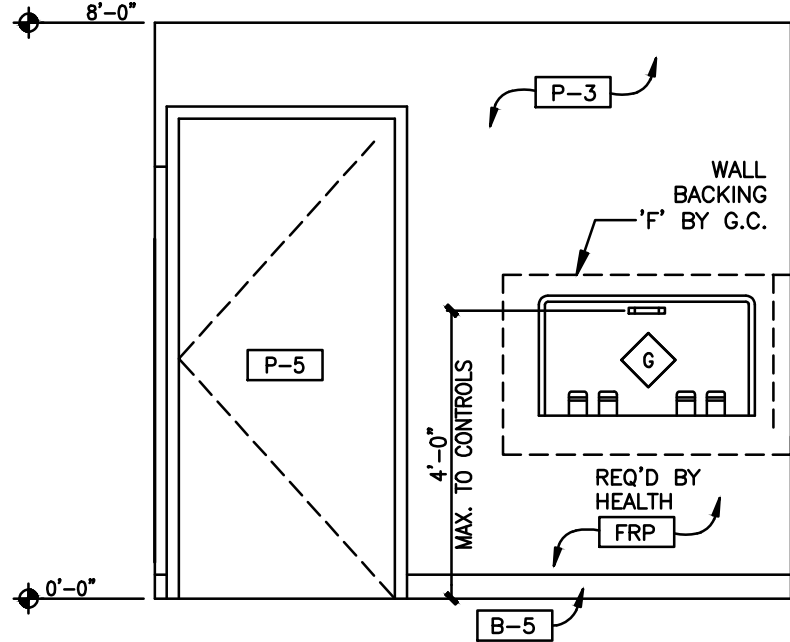
NOTE:  
GC TO VERIFY ALL EXISTING DIMENSIONS AND COLUMNS DURING BID AND ALERT NEPTUNE IF DIFFERENT FROM PLAN.

NOTE:  
ONLY SINGLE SERVICE UTENSILS WILL BE USED IN THIS SPACE

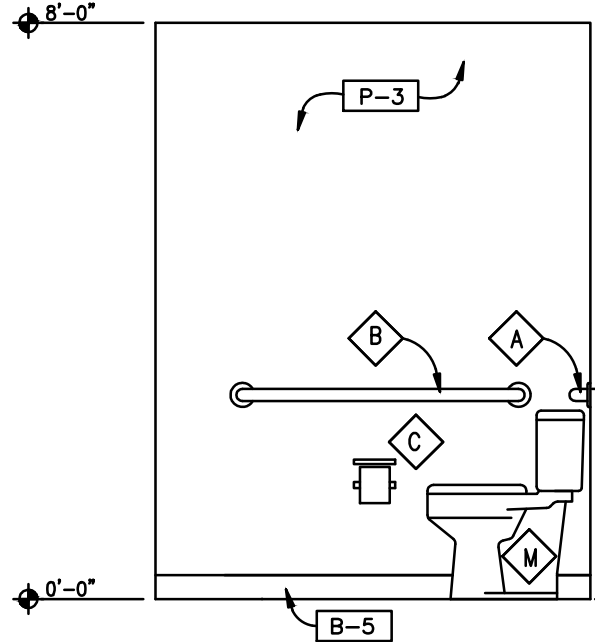
NOTE:  
MAIN ENTRY/EXIT DOORS MAY BE KEY OPERATED FROM INTERIOR IF SIGNAGE WITH 1" LETTERING IS PROVIDED ON OR ADJACENT TO DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED".



TYP RESTROOM ELEV  
SCALE: 3/8" = 1' - 0"



TYP RESTROOM ELEV  
SCALE: 3/8" = 1' - 0"



TYP RESTROOM ELEV  
SCALE: 3/8" = 1' - 0"

DOOR SCHEDULE

ITEM NO	SIZE	THK.	MATERIAL	FRAME	TYPE	REMARKS	HARDWARE
1	3' X6'-8"	1-3/4"	WOOD	METAL	FLUSH SOLID CORE	NEW INTERIOR DOOR	GROUP #2
2	3' X6'-8"	1-3/4"	WOOD	METAL	FLUSH SOLID CORE	NEW INTERIOR DOOR	GROUP #2

E1	3'X0'	EXISTING	ALUM/GLASS	EXISTING	STOREFRONT	EXISTING EXTERIOR DOOR	GROUP #E1
E2	3'X0'	EXISTING	HM	EXISTING	REAR SERVICE	EXISTING EXTERIOR DOOR	GROUP #E2

DOOR NOTES:

- ALL NEW INTERIOR WOOD DOORS ARE TO BE CLEANED AND TOUCHED UP TO RECIEVE NEW SCHEDULED FINISH.
- LOCKING DEVICES ON REQUIRED EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE OF THE DOOR, EXCEPT AS SPECIFICALLY PERMITTED BY SECTION 1008.1.9 (2010 FBC).
- ALL INTERIOR DOOR LOCKSETS/PASSAGE SETS ARE TO BE HANDICAP ACCESSIBLE WITH LEVER ACTION HANDLES AND MOUNTED AT 40" ABOVE THE FINISHED FLOOR.
- CONTRACTOR IS TO ADJUST ALL DOORS TO NORMAL WORKING OPERATION WHICH INCLUDES THE REPAIR OR REPLACEMENT OF HARDWARE AND WEATHER STRIPPING AS REQUIRED.
- CONTRACTOR TO VERIFY THAT THE EXISTING RESTROOM DOORS HAVE CLOSERS. IF NOT, CONTRACTOR IS TO INSTALL NEW CLOSER ON EACH RESTROOM DOOR.
- ALL DOORS SHALL HAVE AN OPENING FORCE OF FIVE POUNDS MAXIMUM.

DOOR HARDWARE:

GROUP #1 - NEW INTERIOR DOOR:

- 1.5 PAIR BUTTS: NEW
- 1.0 LOCKSET W/ LEVER HANDLE

GROUP #E1 - EXISTING EXTERIOR DOOR HARDWARE

- 1.5 PAIR BUTTS: EXISTING
- 1.0 LATCH SET WITH RETRACTABLE DEAD BOLT
- 1.0 DOOR CLOSURES: EXISTING
- 1.0 THRESHOLD: EXISTING
- 1.0 DOOR SWEEP: EXISTING
- PROVIDE PEEP HOLE IF NOT EXISTING

NOTE:  
GC TO XRAY SLAB AT ALL PLUMBING FLOOR LOCATIONS TO ENSURE ADEQUATE CLEARANCE FROM STRUCTURAL BEAM. NOTIFY ARCHITECT IMMEDIATELY IF PLUMBING FIXTURES NEED TO BE RELOCATED.

NOTE:  
GC TO CONFIRM WITH TENANT AND LANDLORD RESPONSIBILITY OF DOORS AND FIXTURES WITH FINAL LEASE

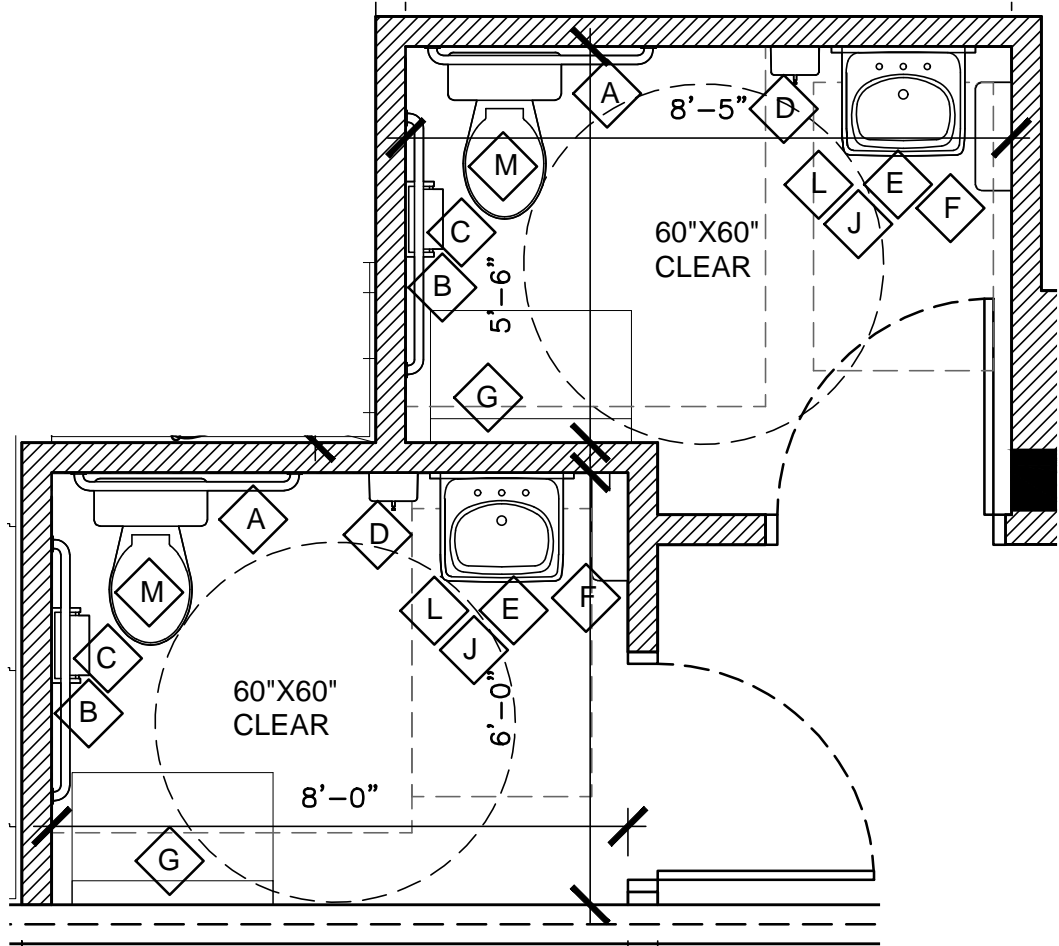
NOTE:  
RESTROOM DOORS MUST BE EQUIPPED WITH SELF-CLOSING DEVICES.

GROUP #2 - NEW INTERIOR DOOR:

- 1.5 PAIR BUTTS: NEW
- 1.0 LOCKSET W/ LEVER HANDLE
- 1.0 DOOR CLOSER, SURFACE MOUNTED

GROUP #E2 - EXISTING ENTRANCE HARDWARE:

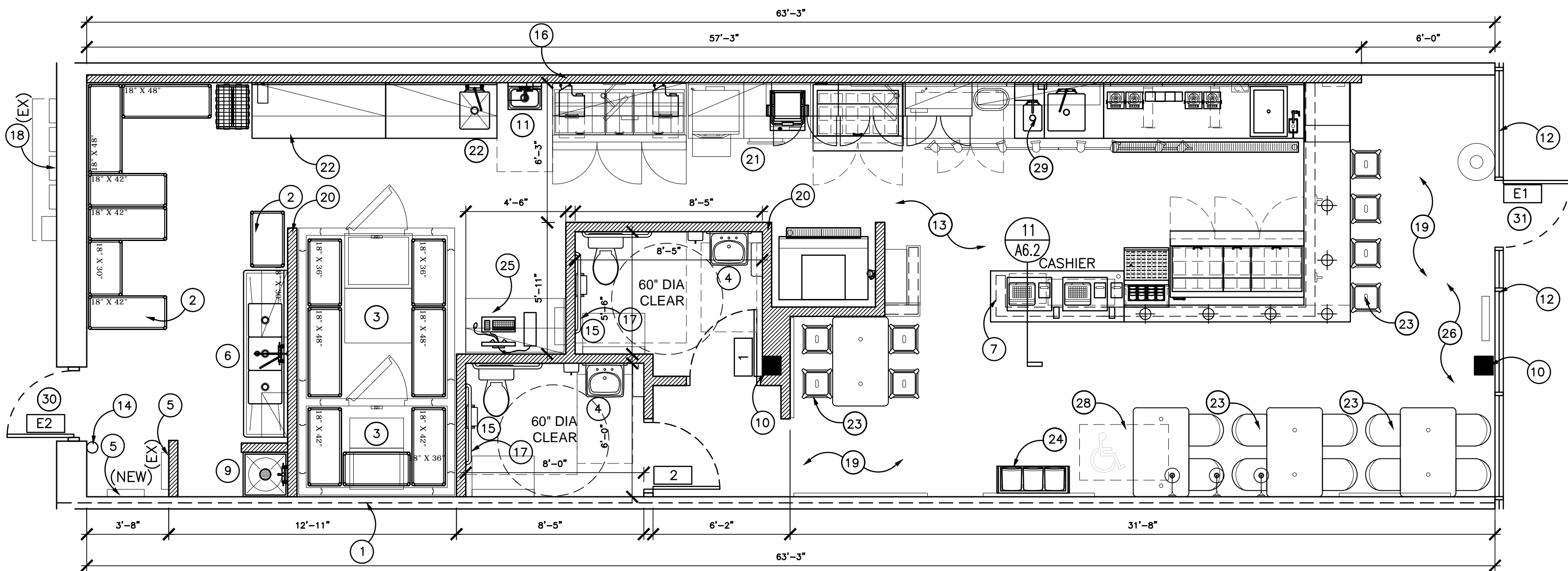
- 1.5 PAIR BUTTS: EXISTING
- 1.0 DEAD BOLT (IN OPEN POSITION DURING BUSINESS HRS)
- 1.0 DOOR CLOSER: EXISTING
- 1.0 THRESHOLD: EXISTING
- 1.0 DOOR SWEEP: EXISTING
- 1.0 DOOR PULLS: EXISTING
- 1.0 PUSH PLATE: EXISTING



ENLARGED RESTROOM PLAN  
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY SCHEDULE: #

ITEM	MOUNTING HEIGHT
A. NEW GRAB BAR, 36" L.	33"-36" AFF TO CL
B. NEW GRAB BAR, 42" L.	33"-36" AFF TO CL
C. NEW TISSUE DISPENSER	24" AFF TO OUTLET
D. NEW SOAP DISPENSER	38"-48" TO OPERATOR & DISPENSER
E. NEW FRAMED MIRROR. 18"x30"	40" AFF MAX. TO BUTTO OF REFLECTIVE SURFACE
F. NEW PAPER TOWEL DISPENSER	38"-48" TO TOWEL DISPENSER
G. BABY CHANGING STATION	34"-44" AFF
J. 30" X 48" MIN. CLR. FLR. SPACE TYP. ALL LAVS.	
L. NEW HANDICAP ACCESSIBLE WALL MOUNTED SINK	
M. NEW HANDICAP ACCESSIBLE WATER CLOSET.	



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

NOTE:  
GC TO PROVIDE CAMERA TEST OR X-RAY OF SLAB TO LOCATE EXISTING WASTE LINES UNDER SLAB. NO SHELL PLANS PROVIDED. CONFIRM WITH P SHEETS AND CONTACT DESIGN TEAM IF MODIFICATIONS ARE NEEDED. CONFIRMATION REQUIRED PRIOR TO ISSUANCE OF PERMIT ISSUANCE.

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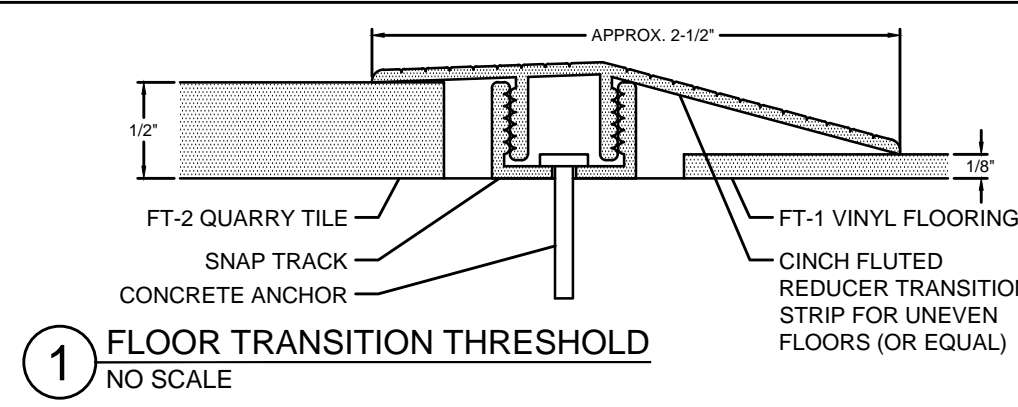
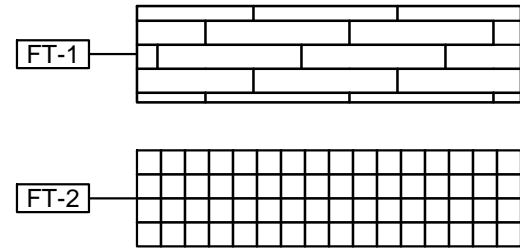
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FLOOR PLAN

A2.0



## FLOOR FINISH LEGEND



1 FLOOR TRANSITION THRESHOLD  
NO SCALE



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TRAFFIC CHANNEL  
GRATE WITH UV  
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SECTION AT 5"  
PRO SERIES  
NEW FELT  
EXPANSION JOINT  
EXISTING OR NEW  
CONCRETE  
SLAB  
EXISTING SOILS  
#3 OR #4 REBAR STAKE  
SUSPENSION METHOD.  
LENGTH OF STAKE  
APPROX. 16".

### NOTES:

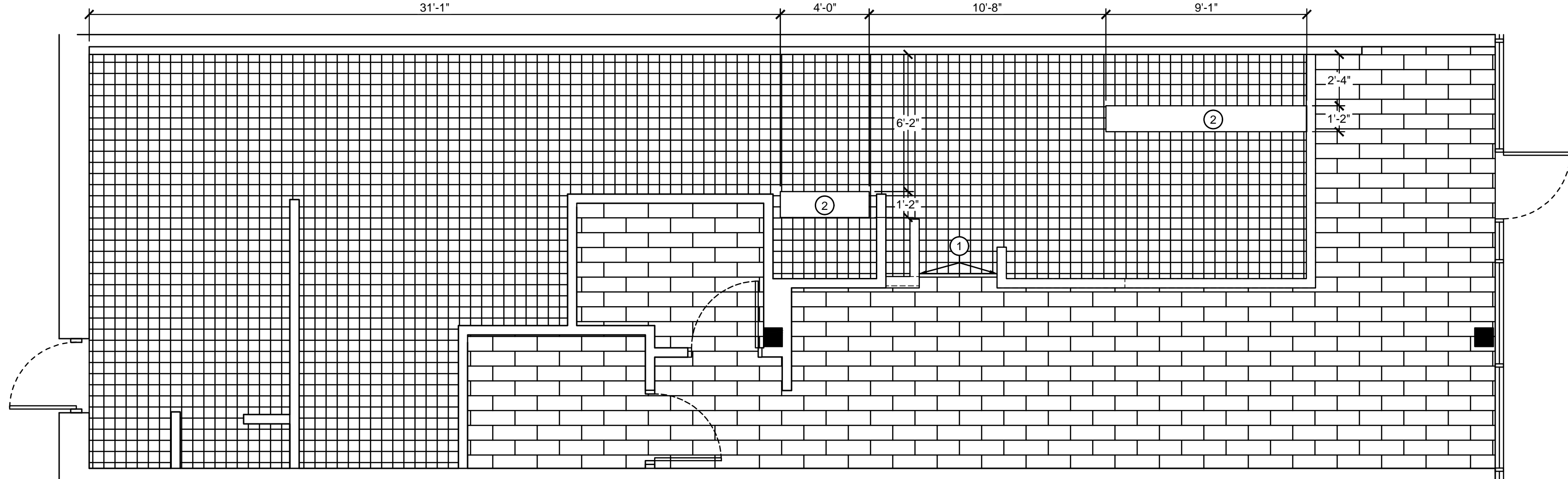
- CHANNELS TO BE INSTALLED WITH GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DO NOT SCALE DRAWING.
- THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
- ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

### PRO SERIES CHANNEL DRAIN SYSTEM

5" PRO SERIES INSTALLATION DETAIL - LOAD CLASS 'A' & 'B' - 4" ENCASEMENT REBAR SUSPENSION

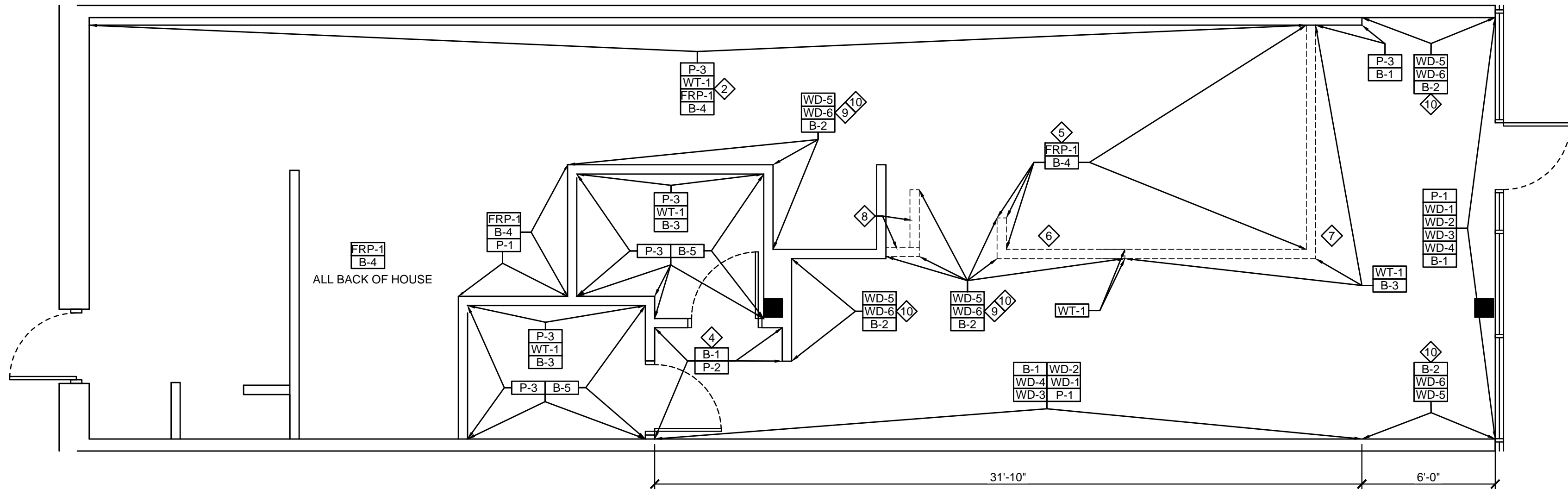
## INTERIOR FINISHES SCHEDULE

FLOOR TILE (DINING)		WALL TILE	
FT-1	MANUF: CENTIVA TYPE: VINYL FLOORING SERIES: CONTOUR PLANK NUMBER: CP-0303-C COLOR: VINTAGE CHALET  CONTACT INFO:  LENNIE ROWAN, LEED GA ACCOUNT EXECUTIVE TANDUS / CENTIVA A TARKETT COMPANY (404) 428-5210	WT-1	MANUF: DAL TILE OR EQUAL TYPE: CERAMIC TILE COLOR: WHITE SIZE: 3" X 6" GROUT MANUF: POLYBLEND OR EQUAL GROUT TYPE: NON-SANDED GROUT COLOR: NEW TAUPE #185 SCHLUTER: JOLLY AE80 SATIN ANODIZED ALUMINUM
FLOOR TILE (KITCHEN)		PAINT	
FT-2	MANUF: DAL TILE OR EQUAL TYPE: QUARRY TILE COLOR: 0703 ASHEN GRAY SIZE: 6" X 6" GROUT MANUF: POLYBLEND OR EQUAL GROUT TYPE: SANDED GROUT COLOR: DELOREAN GRAY #165	P-1	MANUF: SHERWIN WILLIAMS NUMBER: SW-7103 COLOR: WHITETAIL FINISH: SATIN
		P-2	MANUF: SHERWIN WILLIAMS NUMBER: SW-6621 COLOR: EMOTIONAL FINISH: SATIN
		P-3	MANUF: SHERWIN WILLIAMS NUMBER: SW-6463 COLOR: BREAKTIME FINISH: SATIN
FLOOR TILE BASE		COUNTER TOPS	
B-1	TYPE: STAIN GRADE PINE SIZE: 1" X 4" STRIPS STAIN: SHERWIN WILLIAMS NUMBER: SW-224 FINISH: SPECIAL WALNUT	ST-1	MANUF: LG HAUSYS TYPE: HI-MACS ACRYLIC COLOR: TROPICAL TEAL FINISH: POLISHED THICKNESS: 1/2"
B-2	3-5/8" METAL STUD TRACK INSTALLED W/FLANGES FACING THE WALL. SHINY, NON-TEXTURED FINISH. 20 GAUGE.	ST-2	MANUF: JOHN BOOS OR EQUAL TYPE: BUTCHER BLOCK TOP LAMINATED CLEAR THROUGH, WARP RESISTANT AND ELECTRONICALLY THERMOBONDED. WOOD: MAPLE - EDGE GRAINED THICKNESS: 1-1/2" - 1-3/4" FINISH: VARNIQUE, IF VARNIQUE SURFACE IS CUT, IT WILL NEED TO BE RE-SEALED USING BOOS EZ-DO FINISH OR DURAKRYL 102
B-3	MANUF: DAL TILE OR EQUAL TYPE: CERAMIC COVE BASE COLOR: WHITE SIZE: 3" X 6" GROUT MANUF: POLYBLEND OR EQUAL GROUT TYPE: NON-SANDED GROUT COLOR: NEW TAUPE #185	ST-3	MANUF: HOME DEPOT TYPE: PVC TRIM PLANK COLOR: WHITE NUMBER: VERANDA 7311 OR SIMILAR SIZE: 1" X 6"
B-4	MANUF: DAL TILE OR EQUAL TYPE: QUARRY TILE BASE COLOR: 0703 ASHEN GRAY SIZE: 5" X 6" GROUT MANUF: POLYBLEND OR EQUAL GROUT TYPE: SANDED GROUT COLOR: DELOREAN GRAY #165	FRP-1	MANUF: FRP TYPE: X COLOR: WHITE NOTE: CAULK ALL JOINTS. EXISTING FRP TO REMAIN WHERE POSSIBLE
B-5	MANUF: JOHNSONITE TYPE: VINYL WALL BASE COLOR: SEAWEED #101 SIZE: 4" HIGH  (FOR RESTROOMS & OPTIONAL KITCHEN BASE)		



## 1 FLOOR FINISH PLAN

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



## 2 WALL FINISHES PLAN

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

## RESTROOM FINISHES

STOOL / VANITY WALL TO HAVE [WT-1] WALL TILE FROM FLOOR TO 48" AFF (HORIZONTAL MOUNT). WALL ABOVE TILE TO BE PAINTED WITH [P-3]

ALL OTHER WALLS TO BE PAINTED [P-3] FROM FLOOR TO CEILING

INTERIOR SIDE OF DOOR AND TRIM TO BE PAINTED WITH [P-3]

BASE TO BE [B-5]

## KEY NOTES

NO.	ITEM DESCRIPTION
1	GYP. BOARD WALL OR FRP OPTION
2	[FRP-1] FROM FLOOR TO 34" AFF. WT-1 FROM 35" AFF TO 62" AFF
3	DINING SIDE OF DOOR AND TRIM TO BE PAINTED [P-2]
4	PAINTED GYP. BOARD WALL
5	[FRP-1] INSTALLED FROM FLOOR TO TOP OF HALF HEIGHT WALL
6	HORIZONTAL SURFACE TO BE [ST-1]
7	HORIZONTAL SURFACE TO BE [ST-2]
8	HORIZONTAL SURFACE TO BE [ST-3]
9	CORRUGATED METAL APPLIED TO WALL AS SHOWN ON ELEVATIONS
10	WALL PAINTED BLACK BEHIND [WD-3] WOOD PLANKS

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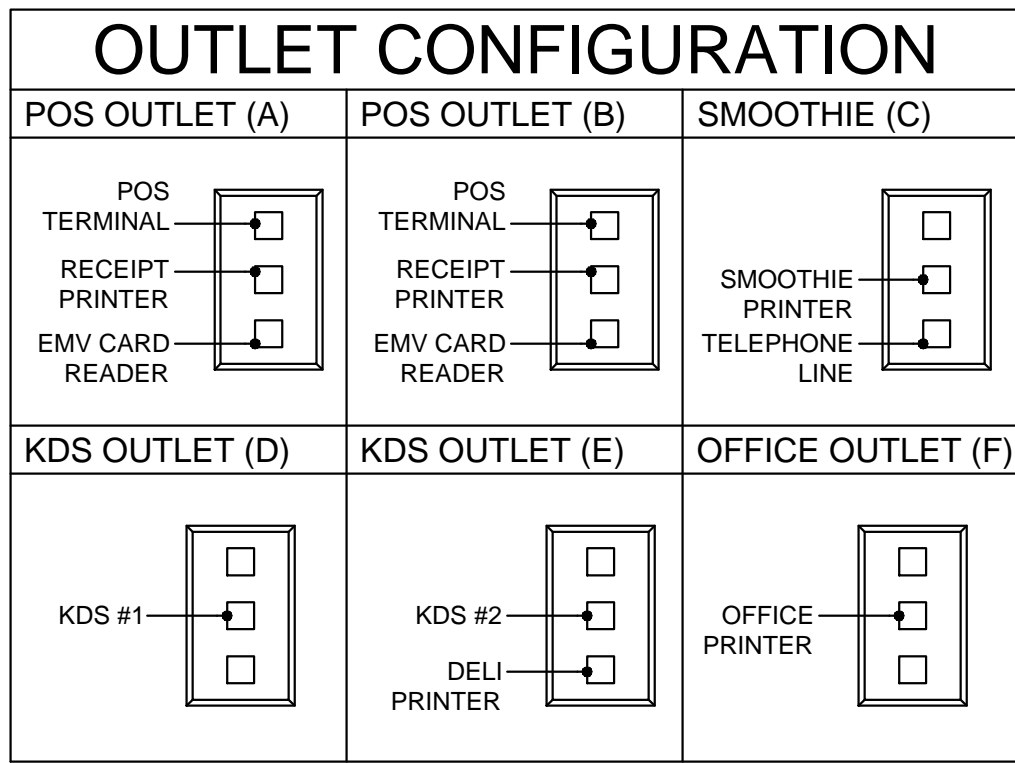
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FLOOR  
FINISH PLAN

A2.1





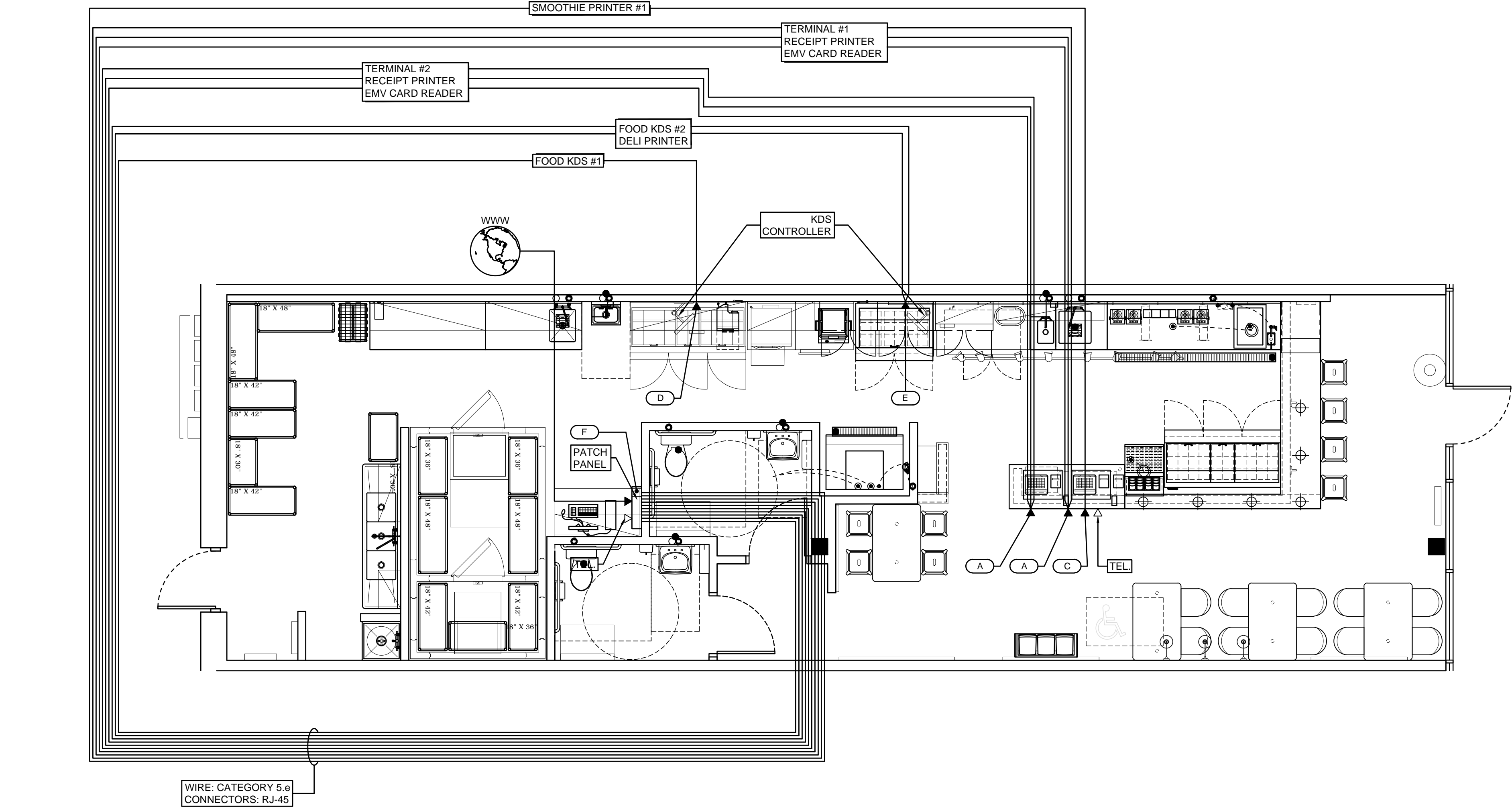
DATA OUTLET LOCATION			
NO.	QTY	ITEM DESCRIPTION	HGT
A	2	POS STATION OUTLET (CASHIER COUNTER)	24"
B	0	POS STATION OUTLET (DRIVE-THRU AREA)	46"
C	1	SMOOTHIE PRINTER OUTLET (CASHIER COUNTER)	24"
D	1	KDS OUTLET (TWO WHEN DRIVE-THRU WINDOW)	67"
E	1	KDS / DELI PRINTER OUTLET (AT FINISH STATION)	67"
F	1	OFFICE OUTLET (PRINTER)	46"

GENERAL NOTES	
1	VERIFY ALL REQUIREMENTS WITH POS SUPPLIER
2	OWNER TO COORDINATE WITH MICROS & RTG FOR ALL KDS AND PRINTER LOCATIONS
3	ALL POS WIRING TO BE PROVIDED BY AND INSTALLED BY RTG
4	G.C. TO CONTACT RTG 4 WEEKS PRIOR TO INSTALL
5	G.C. RESPONSIBLE FOR CONDUITS WITH PULL STRING AND EMPTY ELECTRICAL BOXES TO ACCESSIBLE CEILING LOCATIONS

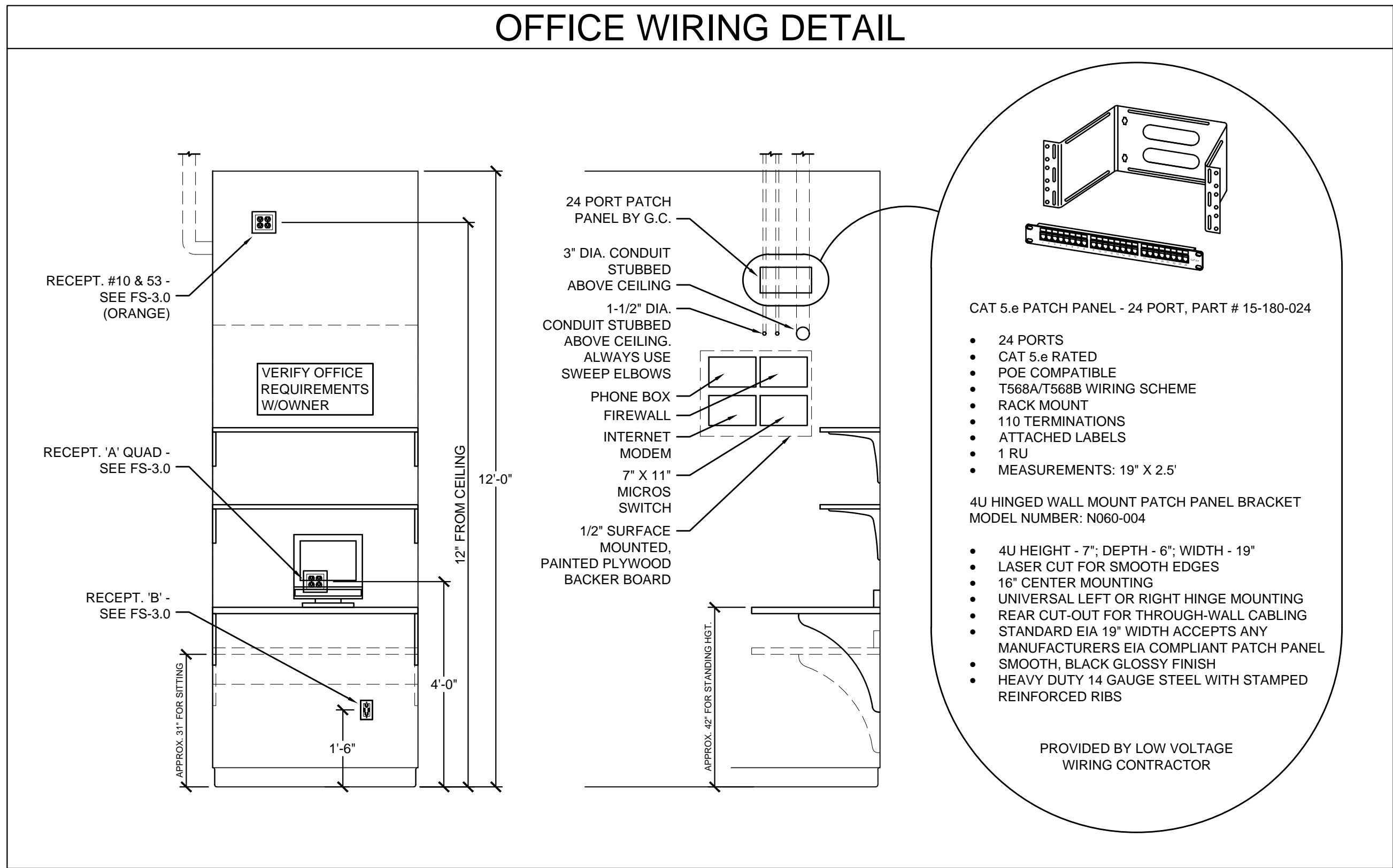
T-STAT LOCATIONS	
NO.	ITEM DESCRIPTION
	T-STAT PREFERRED LOCATIONS
1	NEAR THE RESTROOM CORRIDOR
2	NEAR THE WATER HEATER / MOP SINK AREA

SPEAKER LOCATIONS	
NO.	ITEM DESCRIPTION
	MUZAK, MOOD MEDIA - PREFERRED VENDOR - 3 SPEAKERS
1	NEAR THE SMOOTHIE BAR BETWEEN BAR AND FRONT WALL
2	NEAR THE COMMUNITY TABLE
3	NEAR THE BANQUETTE
	SPEAKERS NOT LOCATED NEAR CEILING FANS & POS AREA

VIDEO SURVEILLANCE LOC'S	
NO.	ITEM DESCRIPTION
	MIN. RECOMMENDED SURVEILLANCE (4 CAMERA SYSTEM)
1	MANAGER'S STATION
2	POS AREA / SAFE
3	BACK DOOR
4	MAIN ENTRY
	PREFERRED SURVEILLANCE (8 CAMERA SYSTEM)
5	SMOOTHIE MAKE LINE
6	PREP AREA
7	DINING AREA
8	BACK OF HOUSE OR CAFE SPECIFIC UNMONITORED AREAS



**1 LOW VOLTAGE WIRING PLAN**  
SCALE: 1/4" = 1'-0"



**2 OFFICE OUTLET AND LOW VOLTAGE EQUIPMENT LOCATIONS**  
SCALE: 1/2" = 1'-0"

**ND ENTERPRISES, LLC**  
6501 E. GREENWAY PKWY #103-707 SCOTTSDALE, AZ 85254  
P 480-297-5577 [www.ndentaz.com](http://www.ndentaz.com)

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SANFORD, FL 32773  
STORE #FL-278

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SMOOTHIE  
eat better. feel better.

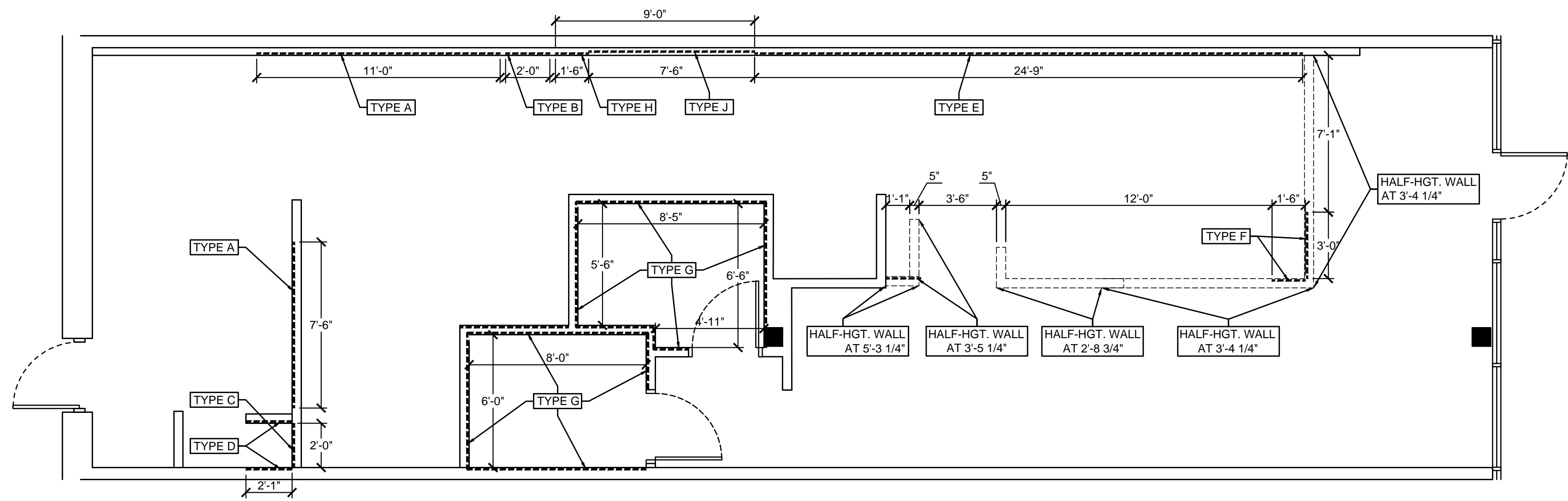
TSC: FL-278

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3  
DATE: 12.26.2019

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PERMIT

FLOOR PLAN  
LOW VOLTAGE  
**A2.2**





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

WALL BACKING LEGEND			
TYPE	HGT.	LOCATION	REMARKS
A	72"	FROM 36" TO 108" A.F.F.	OVERSHELVES AND ICE FILTER
B	84"	FROM 24" TO 108" A.F.F.	HAND SINK AND OFFICE
C	30"	FROM 39" TO 69" A.F.F.	MOP SINK FAUCET BRACKET
D	12"	FROM 48" TO 60" A.F.F.	MOP RACK
E	24"	FROM 42" TO 66" A.F.F.	FRONT WALL SHELVES
F	VARIES	FROM 18" TO TOP OF HALF-HGT. WALL	WALL MOUNTED WORK TOP
G	30"	FROM 24" TO 54" A.F.F.	RESTROOM FIXTURES
H	24"	FROM 18" TO 42" A.F.F.	WALL MOUNTED WORK TOP
J	78"	FROM 42" TO 120" A.F.F.	FRONT WALL CABINETS

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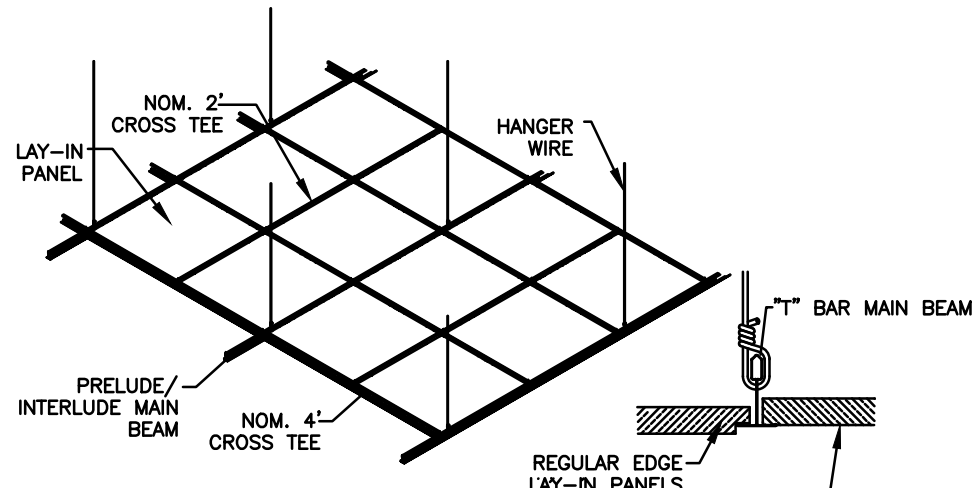
TSC: FL-278

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DATE: 12.26.2019	

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WALL BACKING  
PLAN  
  
A2.3

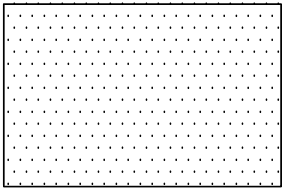




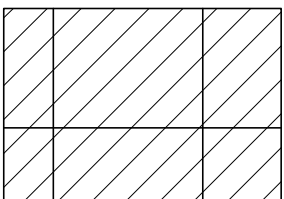
GENERAL NOTES FOR STANDARD CEILING SYSTEMS:

- INSTALL PER ARMSTRONG INSTALLATION SPECS.
- FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.

## A SUSPENDED GRID DETAIL



INDICATES AREA OF GYP BD CLG 5/8" TYPE WR GYP BD ON 20 GA MTL STUDS @ 24" OC AT (SEE PLAN)



INDICATES AREA OF WASHABLE CEILING TILES REQUIRED BY HEALTH - SEE PLAN FOR HEIGHT AFF



INDICATES AREA OF LAY-IN CEILING TILES - SEE FINISH SCHEDULE

NOTE:  
SEE MECHANICAL FOR EXACT LOCATION OF DIFFUSERS

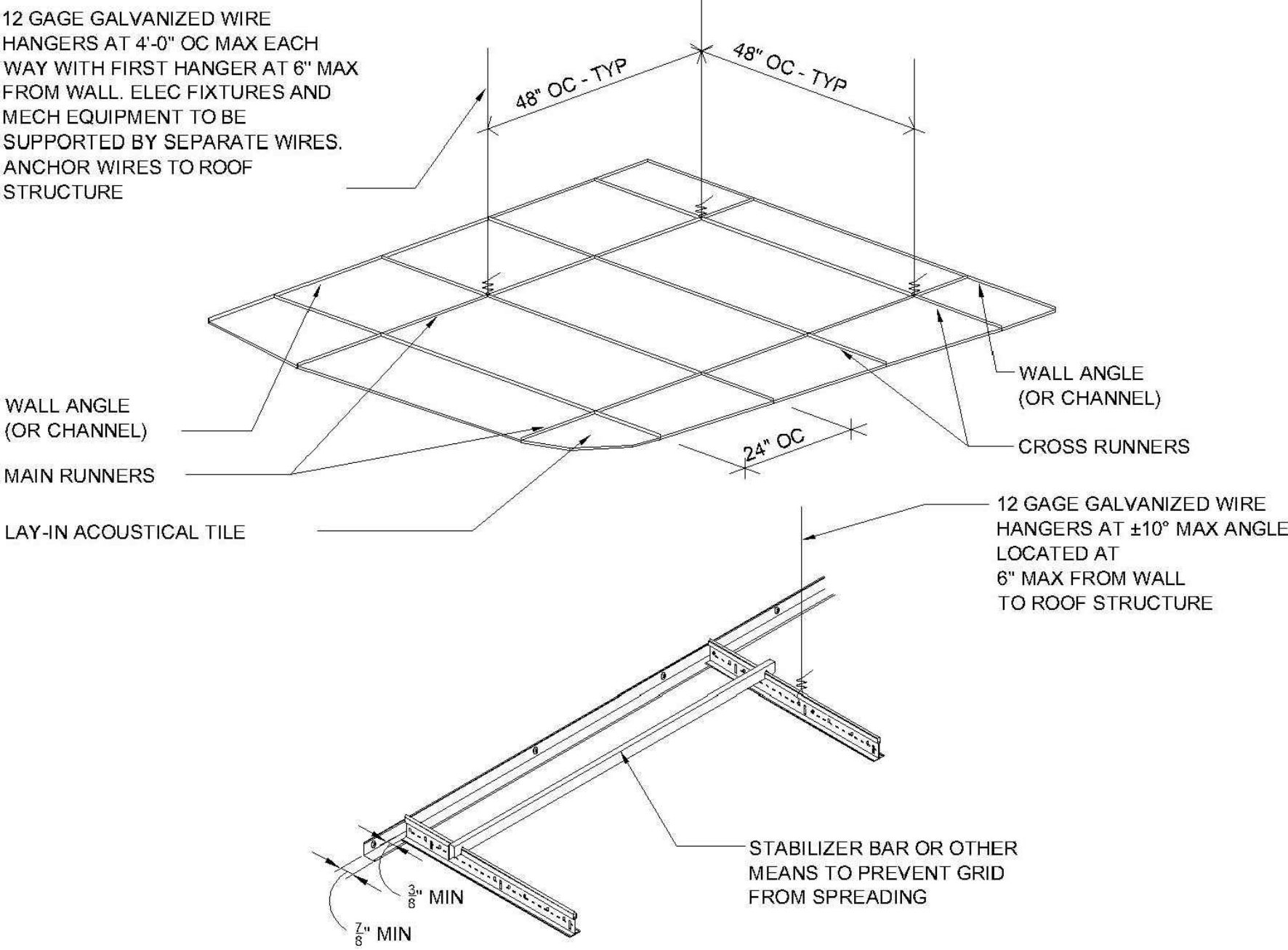
NOTE:  
SEE ELECTRICAL SHEETS FOR LIGHTING SPECIFICATIONS AND EMERGENCY LIGHT PACK LOCATIONS.

NOTE:  
ALL GRILLES/DIFFUSERS TO MATCH CEILING TILES - SEE MECHANICAL SHEETS FOR EXACT LOCATIONS

EXTERIOR SIGN UNDER SEPARATE PERMIT PROVIDED BY SIGN COMPANY & INSTALLED BY SIGN COMPANY

## SUSPENDED CEILING SUPPORT DETAIL

12 GAGE GALVANIZED WIRE HANGERS AT 4'-0" OC MAX EACH WAY WITH FIRST HANGER AT 6" MAX FROM WALL. ELEC FIXTURES AND MECH EQUIPMENT TO BE SUPPORTED BY SEPARATE WIRES. ANCHOR WIRES TO ROOF STRUCTURE



NOTE:  
SIGN MANUFACTURER TO SUBMIT TO LANDLORD DETAILED CUT SHEETS FOR MAIN STOREFRONT SIGN. LANDLORD MUST APPROVE ALL SIGNS IN WRITING PRIOR TO FABRICATION.

NOTE:  
ALL LIGHTS IN THE PREPARATION AREA, STORAGE AREA, DISHWASH AREA, WALK-IN REFRIGERATOR, AND FREEZER MUST HAVE SHATTERPROOF COVERS.

## KEY NOTES

NO.	ITEM DESCRIPTION	NO.	ITEM DESCRIPTION
1	WALL MTD. MENU BOARD FROM 6'-3" AFF TO 9'-0" AFF	6	CEILING GRID INSTALLED @ 90" W/STORE FRONT
2	CEILING MOUNTED TRACK LIGHTING	7	PENDANT LIGHT AT 7'-0" TO BOTTOM OF PENDANT
3	CEILING FAN: 8'-6" A.F.F. TO BOTTOM OF FIXTURE	8	WALL SCONCE AT 8'-6" A.F.F. TO CENTER OF J-BOX
4	PAINTED GYP. BOARD CEILING	9	SUSPENDED MILLWORK SOFFIT BY G.C.
5	CEILING GRID INSTALLED @ 90" W/STORE FRONT		

## REFLECTED CEILING SCHEDULE

SUSPENDED CEILING		PAINT	
AT-1	MANUF: ARMSTRONG TYPE: CLASS "A" NUMBER: 1728A WH FINE FISSURED COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: 15/16" GRID, MATCH WHITE OF CEILING TILE COLOR: NEW WHITE	P-1	MANUF: SHERWIN WILLIAMS NUMBER: SW-7103 COLOR: WHITETAIL FINISH: SATIN
AT-2	MANUF: ARMSTRONG TYPE: CLASS "A" NUMBER: WASHABLE VINYL SURFACE COLOR: WHITE SIZE: 24" X 48" X 5/8" GRID: NEW WHITE 15/16" GRID	P-2	MANUF: SHERWIN WILLIAMS NUMBER: SW-6621 COLOR: EMOTIONAL FINISH: SATIN
AT-3	MANUF: ARMSTRONG TYPE: CLASS "A" NUMBER: WASHABLE VINYL SURFACE COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: 5/16" GRID, MATCH WHITE OF CEILING TILE COLOR: NEW WHITE	P-3	MANUF: SHERWIN WILLIAMS NUMBER: SW-6621 COLOR: BREAKTIME FINISH: SATIN
		JD RYAN - ACCOUNT MANAGER HERMITAGE LIGHTING NATIONAL ACCOUNTS 3640 TROUSDALE DR. NASHVILLE, TN 37204 EMAIL: <a href="mailto:jryan@hermitagelighting.com">jryan@hermitagelighting.com</a> PHONE: (615) 843-3394 FAX: (615) 843-3351 WEBSITE: <a href="http://nationalaccounts.hermitagelighting.com/#home">http://nationalaccounts.hermitagelighting.com/#home</a>	

## LIGHT FIXTURE SCHEDULE

SYMBOL	TYPE	CATALOG #	DESCRIPTION	SUPPLIER
	A	20800844	2X4 LED FIXTURE	HERMITAGE LIGHTING
	AE	20800852	2X4 LED FIXTURE W / EM	HERMITAGE LIGHTING
	B	20801082	LED MODULE	HERMITAGE LIGHTING
	B	20800761	RECESSED NEW HOUSING	HERMITAGE LIGHTING
	B	20800977	REMODEL HOUSING	HERMITAGE LIGHTING
	CF	50069353	CEILING FAN	HERMITAGE LIGHTING
	CF	518730	FAN SPEED CONTROLLER	HERMITAGE LIGHTING
	CF	522608	CANOPY MODULE	HERMITAGE LIGHTING
	D	72002753	LED STRIP	HERMITAGE LIGHTING
	EF	136186	VENT FAN	HERMITAGE LIGHTING
	EM	90902323	EMERGENCY	HERMITAGE LIGHTING
	MS	527997	MOTION SENSOR	HERMITAGE LIGHTING
	P	86703397	BLUE SEEDED GLASS PENDANT	HERMITAGE LIGHTING
	P	43907403	LAMP	HERMITAGE LIGHTING
	S	6619813	BRONZE WALL SCONCE	HERMITAGE LIGHTING
	S	43907403	LAMP	HERMITAGE LIGHTING
	T	18644197	TRACK HEAD	HERMITAGE LIGHTING
	T	18622804	4' TRACK	HERMITAGE LIGHTING
	T	18622846	8' TRACK	HERMITAGE LIGHTING
	T	18622888	STRAIGHT CONNECTOR	HERMITAGE LIGHTING
	T	18642000	CURRENT LIMITER	HERMITAGE LIGHTING
	T	18641995	CURRENT LIMITER END FEED	HERMITAGE LIGHTING
	X	90900301	EXIT SIGN	HERMITAGE LIGHTING
	XC	90902167	EXIT EMERGENCY COMBO	HERMITAGE LIGHTING
	X2	90903363	MULTIVOLT EGRESS HEAD	HERMITAGE LIGHTING

FOR SPECIAL NATIONAL ACCOUNT PRICING CONTACT: HERMITAGE LIGHTING. ATTN: JD RYAN (615) 843-3394.

GENERAL CONTRACTOR TO CONTACT HERMITAGE LIGHTING PRIOR TO INSTALLATION TO OBTAIN FINAL LIGHTING QUOTE BASED OFF APPROVED CONSTRUCTION DRAWINGS.

## STUD GAUGE SCHEDULE

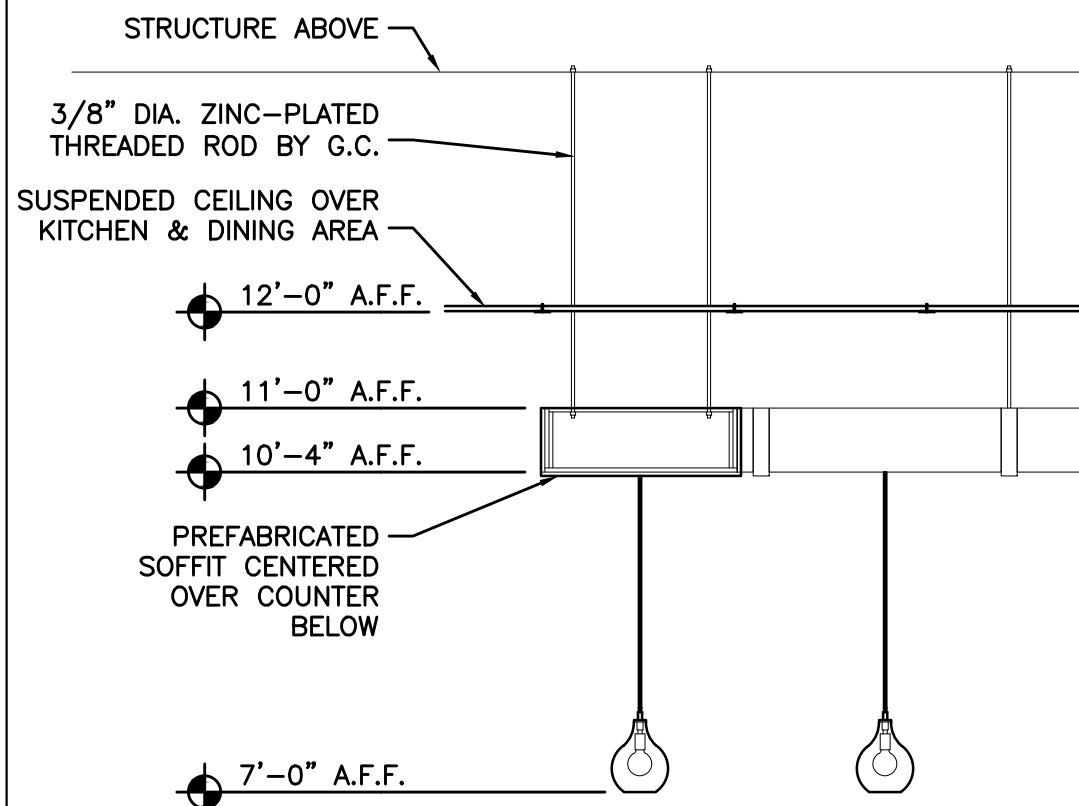
A. TABLE BELOW IS BASED ON UNIVERSAL INDUSTRIES, UNIMAST (USG) CORPORATION'S LIMITING HEIGHT TABLE FOR EMBRACED STUDS SPACED 16" AND 24" O.C. (SYSTEM FOLDER SA-923-1090 EDITION). REQUIREMENT FOR 5 PSF LATERAL PRESSURE AND 1/240 ALLOWABLE DEFLECTION FOR FLEXIBLE FINISHES, WITH 1 LAYER OF GYP. BD. PER SIDE OF STUD.

B. SCHEDULED HEIGHTS MAY BE INCREASED BY 50% WHERE THE STUDS ARE DIAGONALLY BRACED AT THE MAXIMUM HEIGHT POINT TO THE STRUCTURE ABOVE @ 4'-0" O.C.

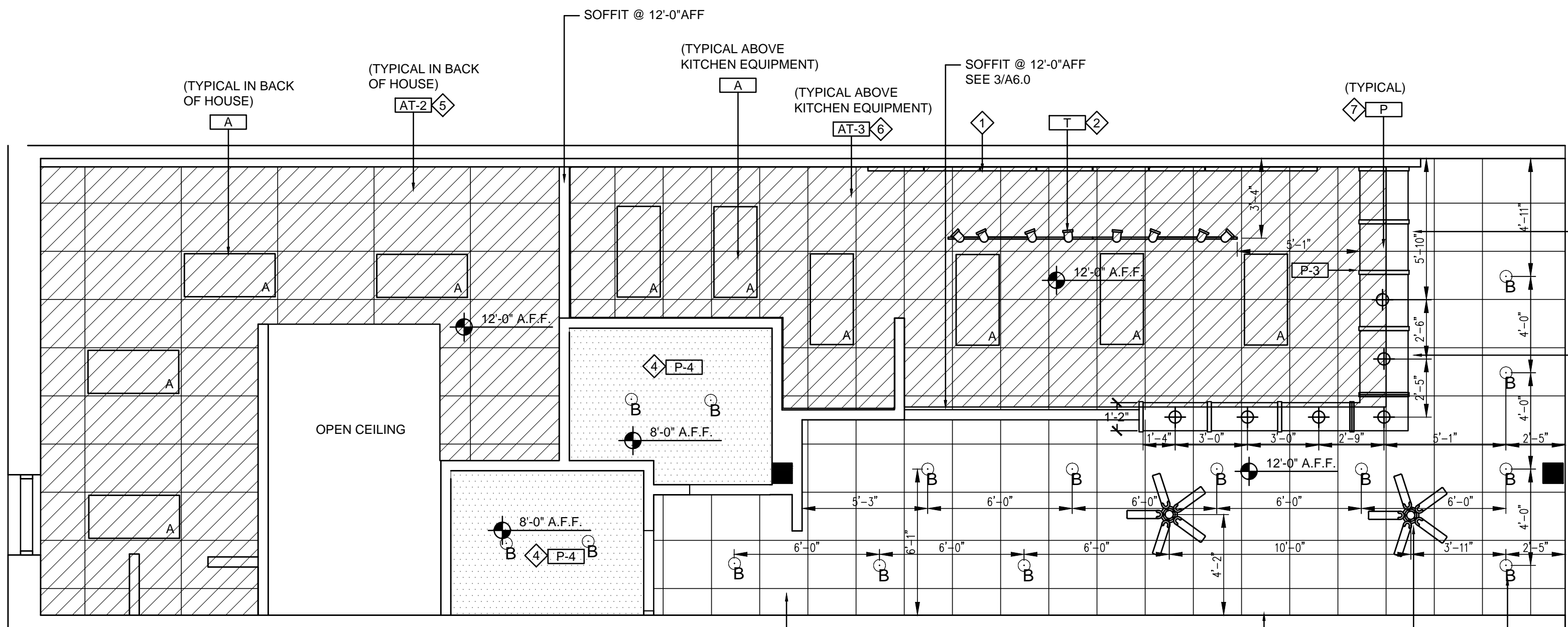
C. CAUTION! WHEN USING STUDS MANUFACTURED BY A COMPANY OTHER THEN USG, VERIFY MANUFACTURERS STUD STRENGTH AND LIMITING HEIGHT. ADJUST GAUGE AND MAXIMUM HEIGHT RECOMMENDED BY MANUFACTURER'S CURRENT PRINTED SPECIFICATION.

STUD WIDTH	STUD TYPE	STUD GAUGE	STUD SPACING	MAX. HEIGHT
1-5/8"	158ST25	25	16"	9'-6"
	158ST25	25	24"	7'-3"
2-1/2"	212ST25	25	16"	12'-6"
	212ST25	25	24"	10'-9"
	212ST22	22	16"	13'-0"
	212ST22	22	24"	11'-6"
	212ST20	20	16"	14'-0"
	212ST20	20	24"	12'-3"
3-5/8"	358ST25	25	16"	16'-0"
	358ST25	25	24"	13'-6"
	358ST22	22	16"	17'-3"
	358ST22	22	24"	15'-0"
	358ST20	20	16"	18'-3"
	358ST20	20	24"	16'-0"
6"	600ST25	25	16"	20'-0"
	600ST25	25	24"	15'-0"

## SOFFIT SECTION DETAIL



2 SOFFIT DETAIL FOR SUSPENDED DINING CEILING  
1/2" = 1'-0"



RESTROOM LIGHTING TO BE ACTIVATED THRU MOTION SENSOR PROVIDED BY HERMITAGE LIGHTING AND INSTALLED BY G.C.

GENERAL CONTRACTOR TO REPLACE ALL HVAC FILTERS WHEN CONSTRUCTION IS COMPLETE.

## 1 REFLECTED CEILING PLAN

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

ND ENTERPRISES, LLC

6801 E. GREENWAY PKWY #103-707 SCOTTSDALE, AZ 85254  
P 480-297-5577 [www.ndentlazz.com](http://www.ndentlazz.com)

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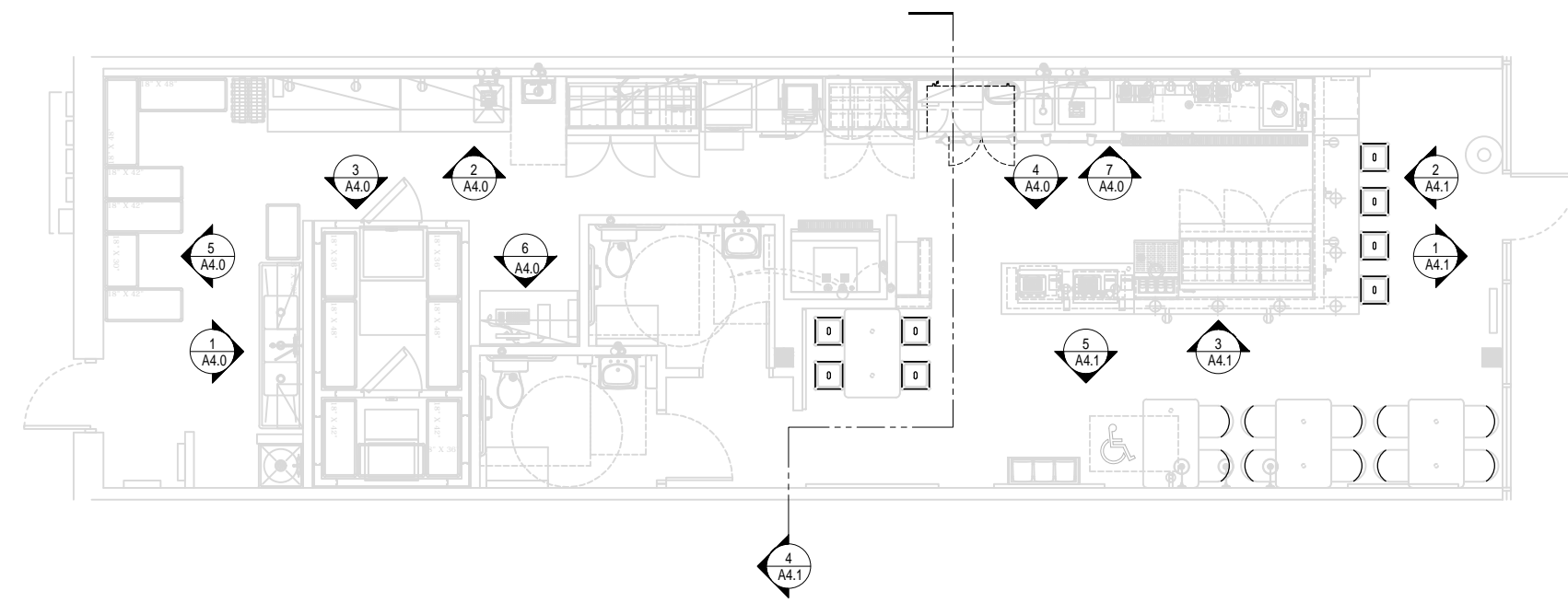
DATE: 12.26.2019

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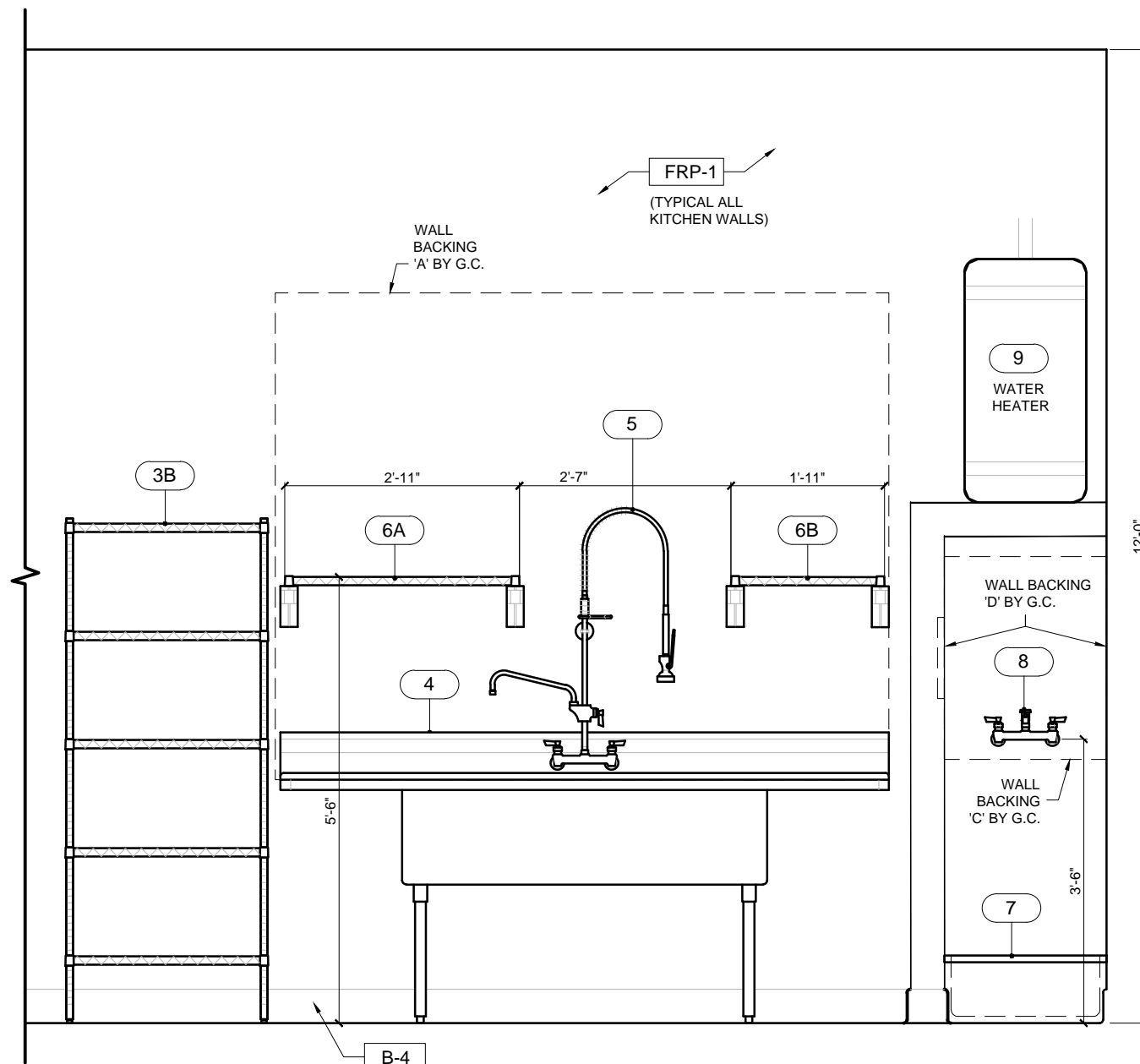
CEILING PLAN

A3.0

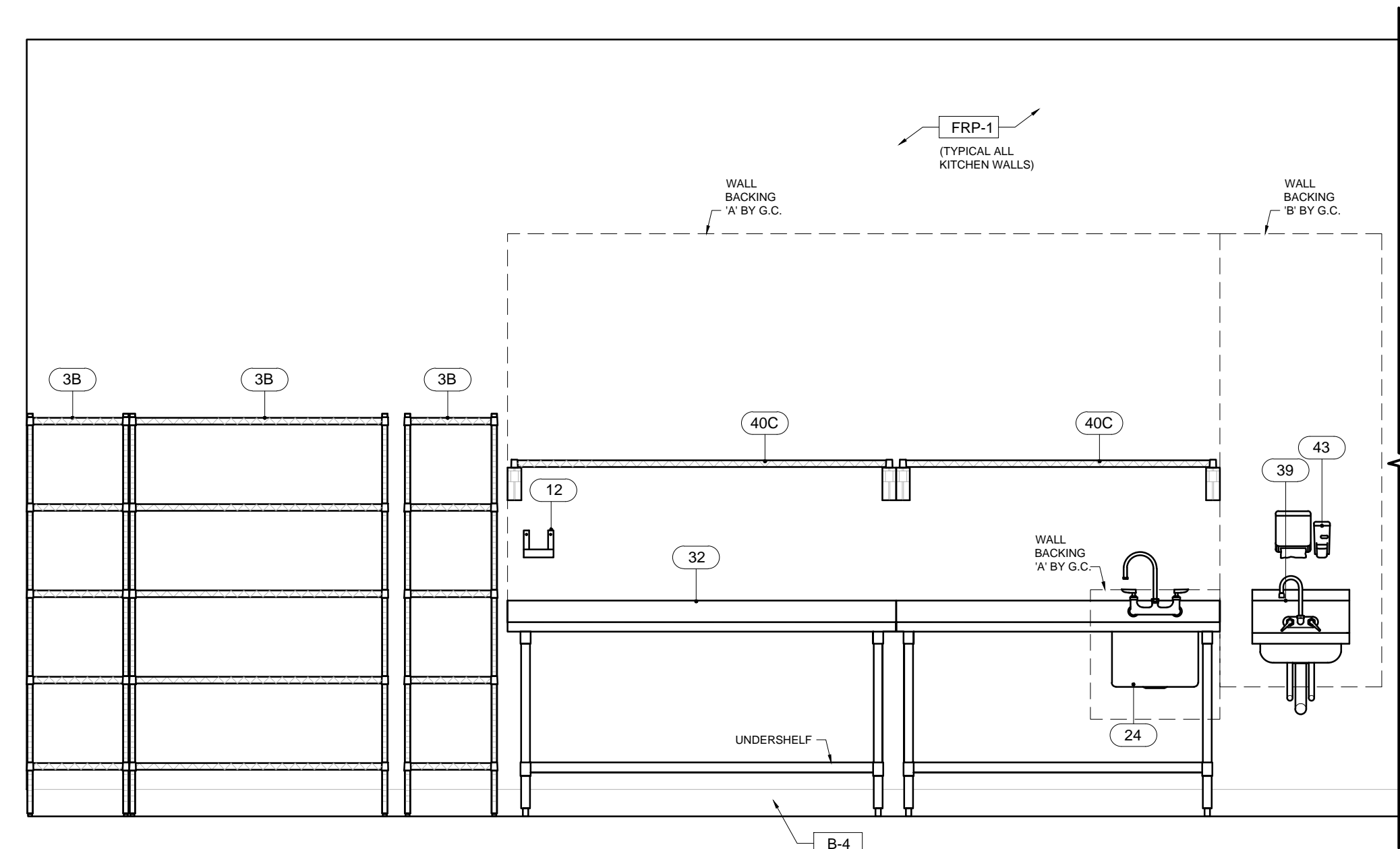




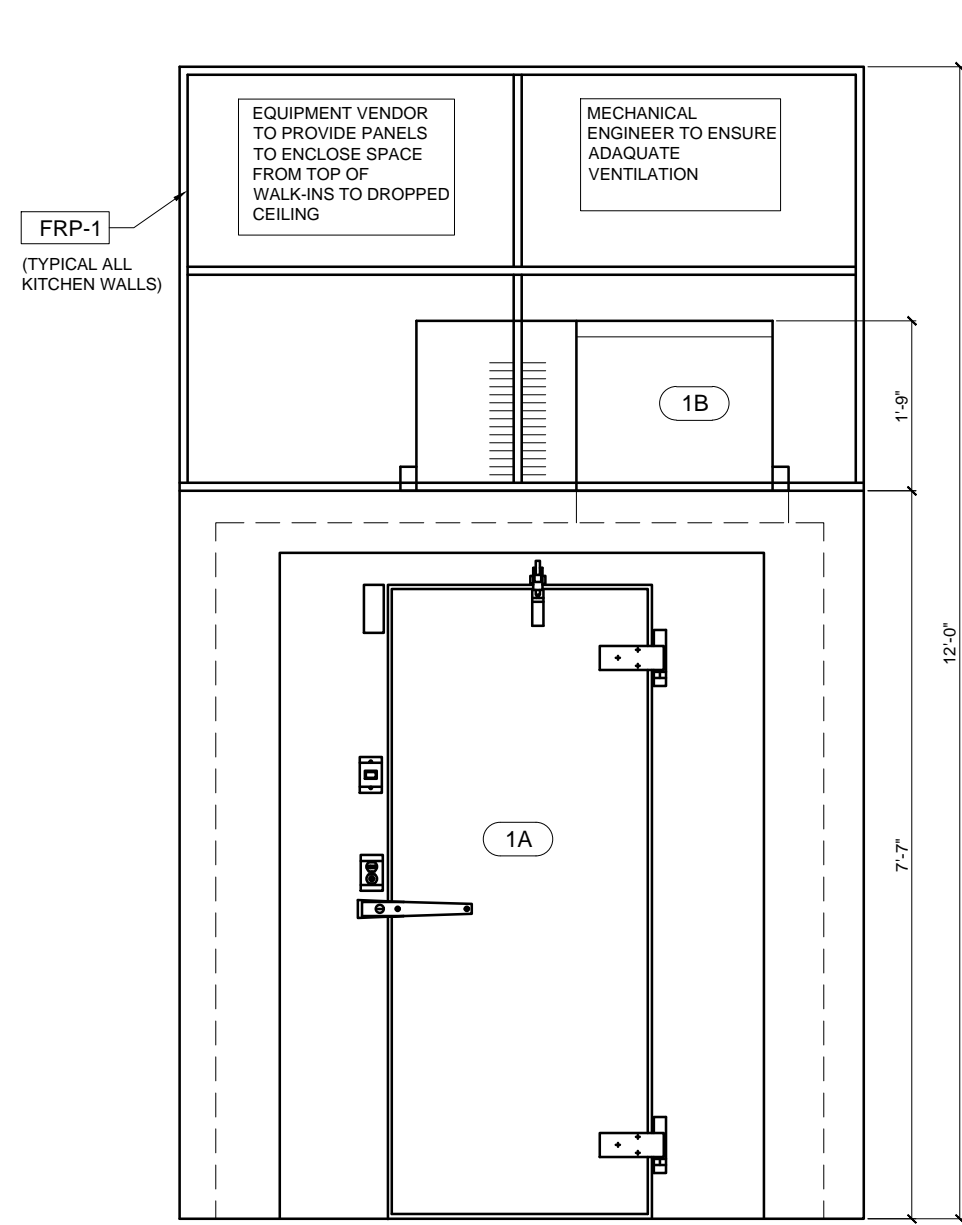
**PROPOSED FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



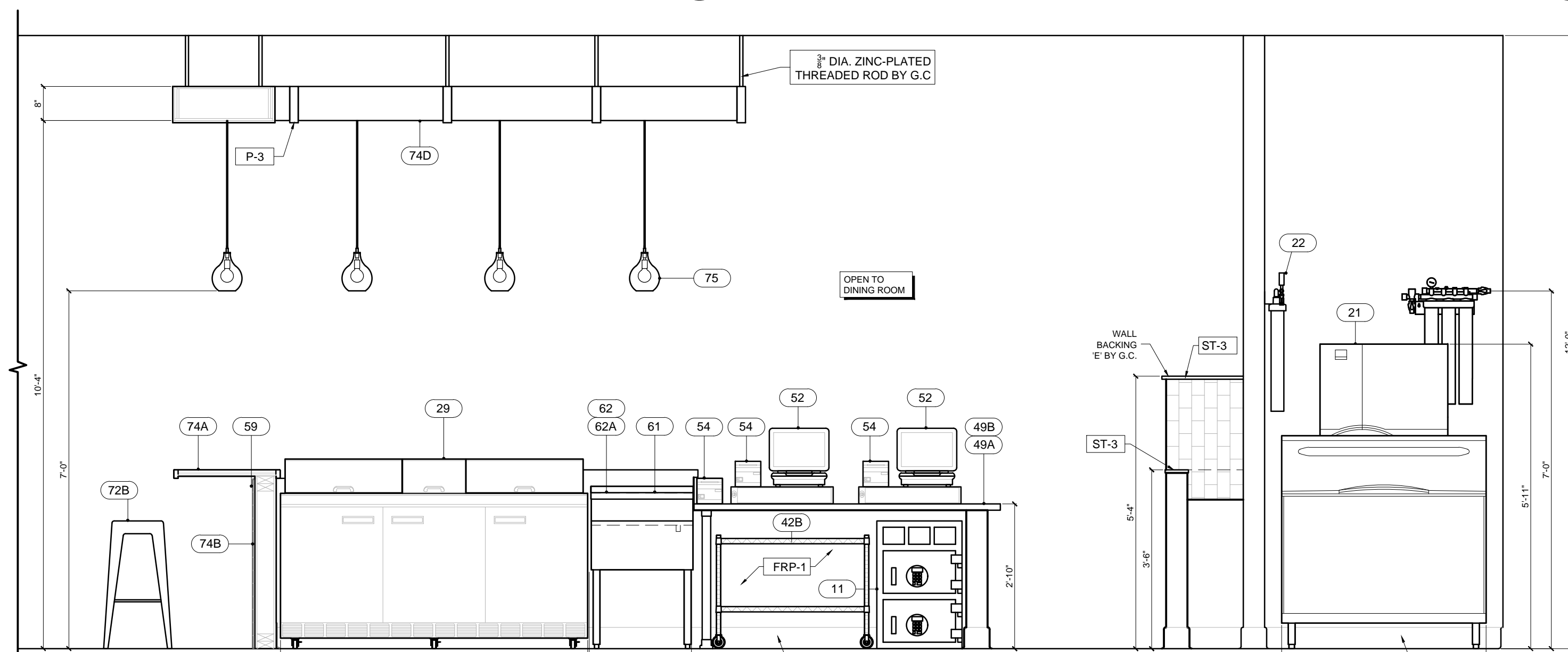
**1 MOP / SCULLERY ELEVATION**  
A4.0



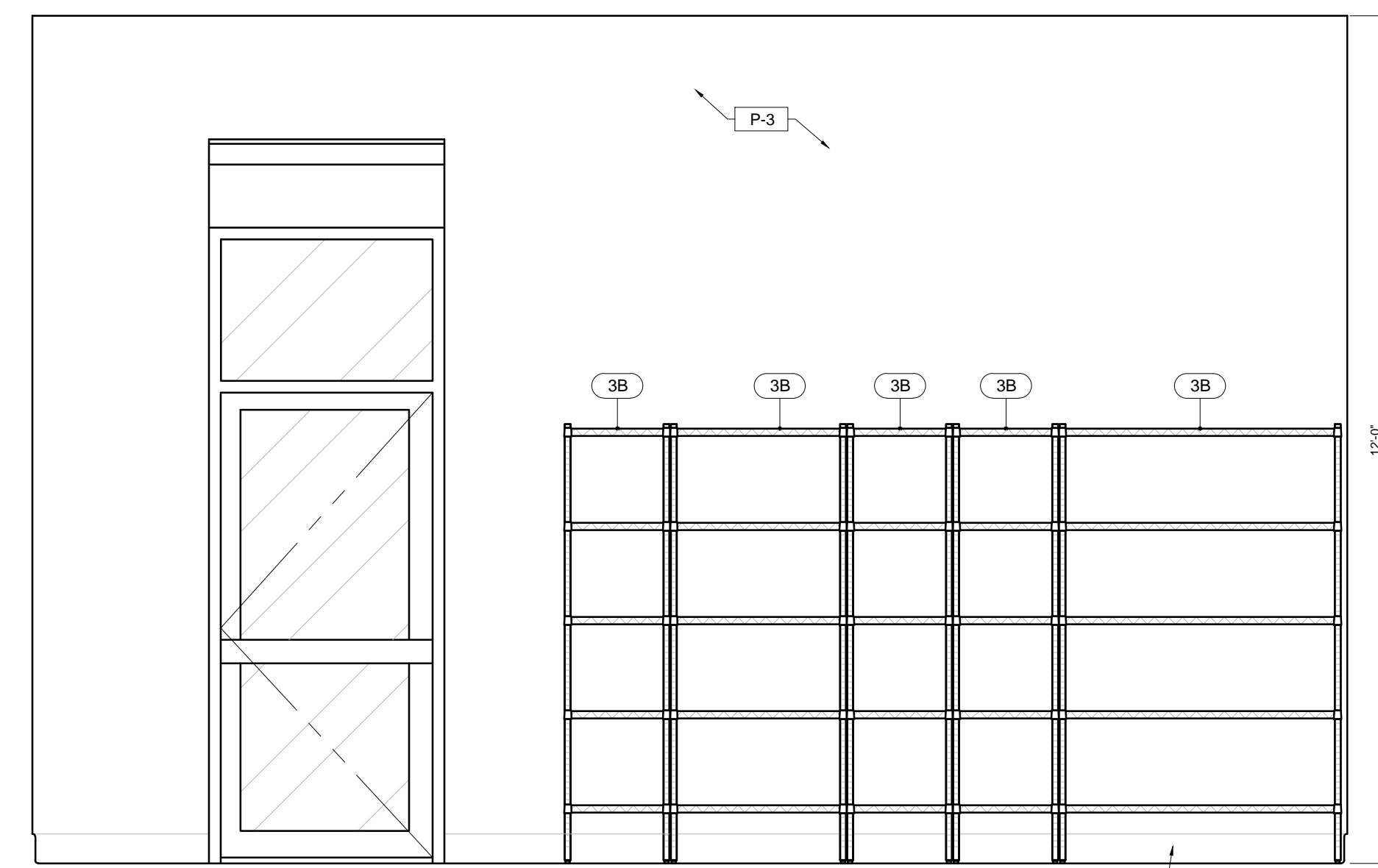
**2 PREP / ICE ELEVATION**  
A4.0



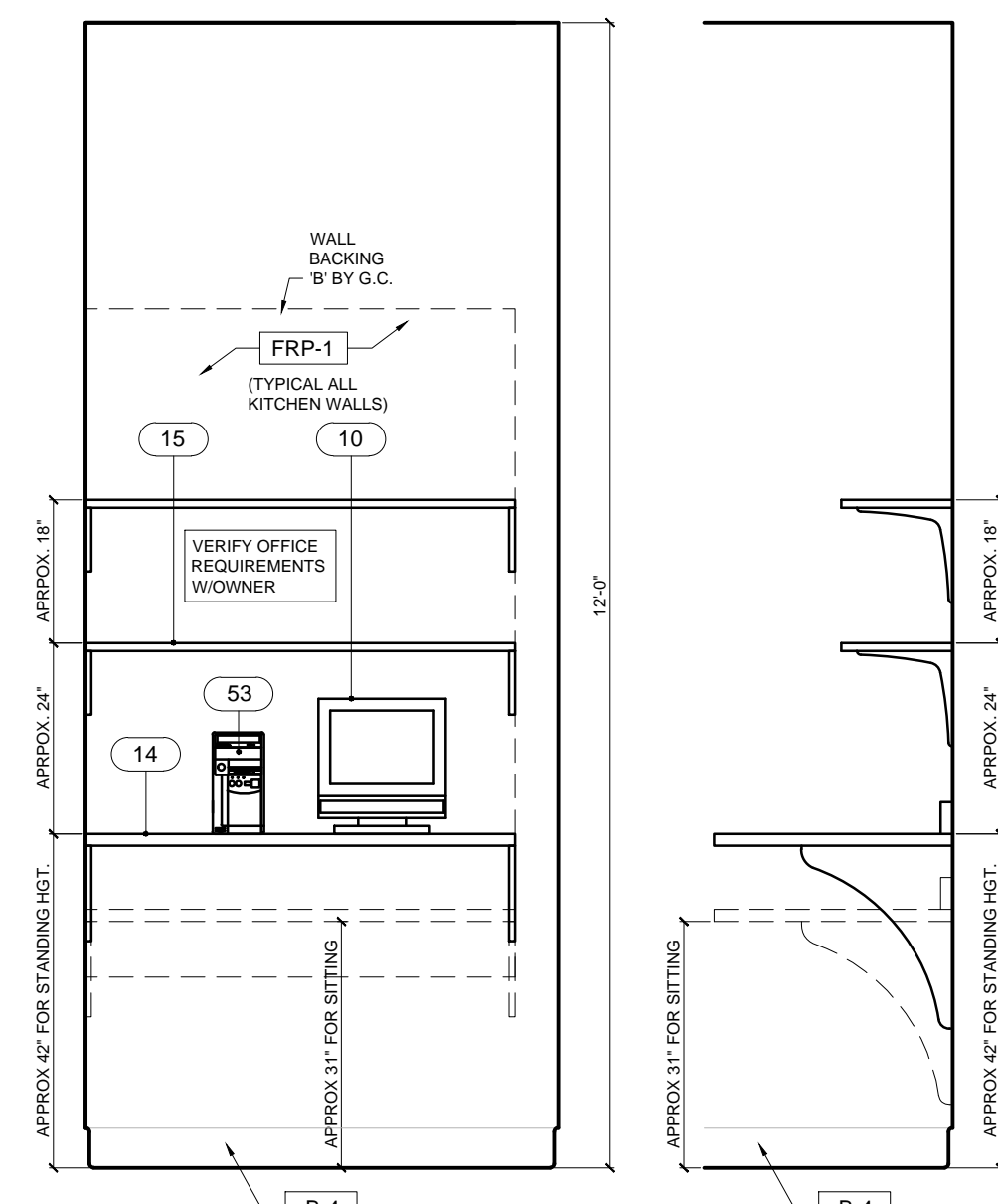
**3 REFRIGERATOR ELEVATION**  
A4.0



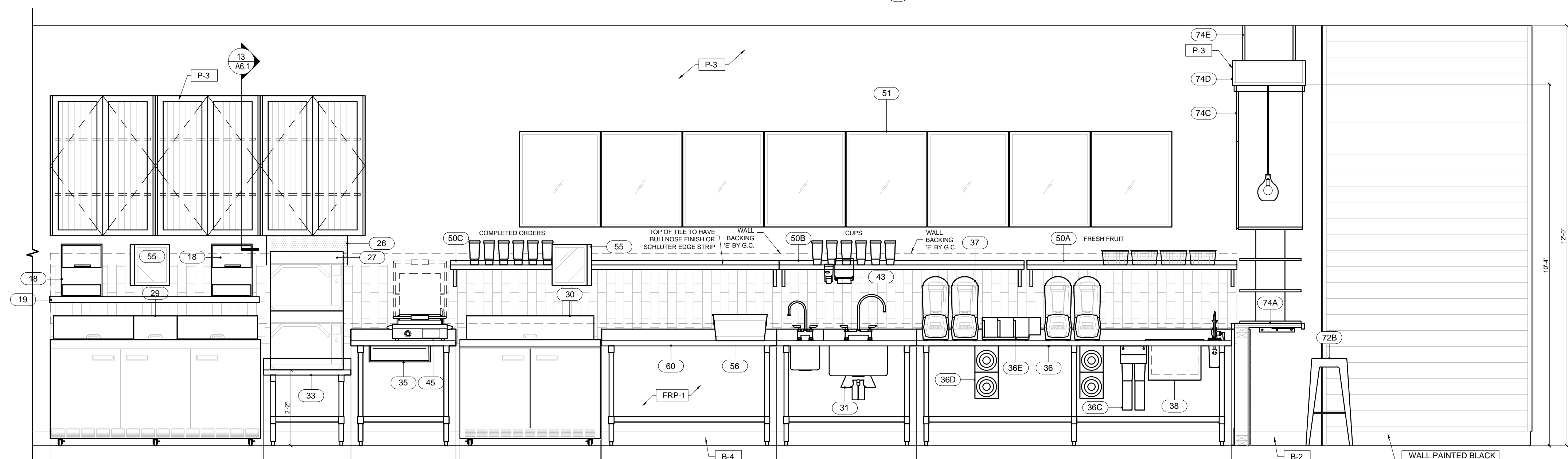
**4 FRONT LINE/BACK VIEW ELEVATION**  
A4.0



**5 BACK WALL**  
A4.0

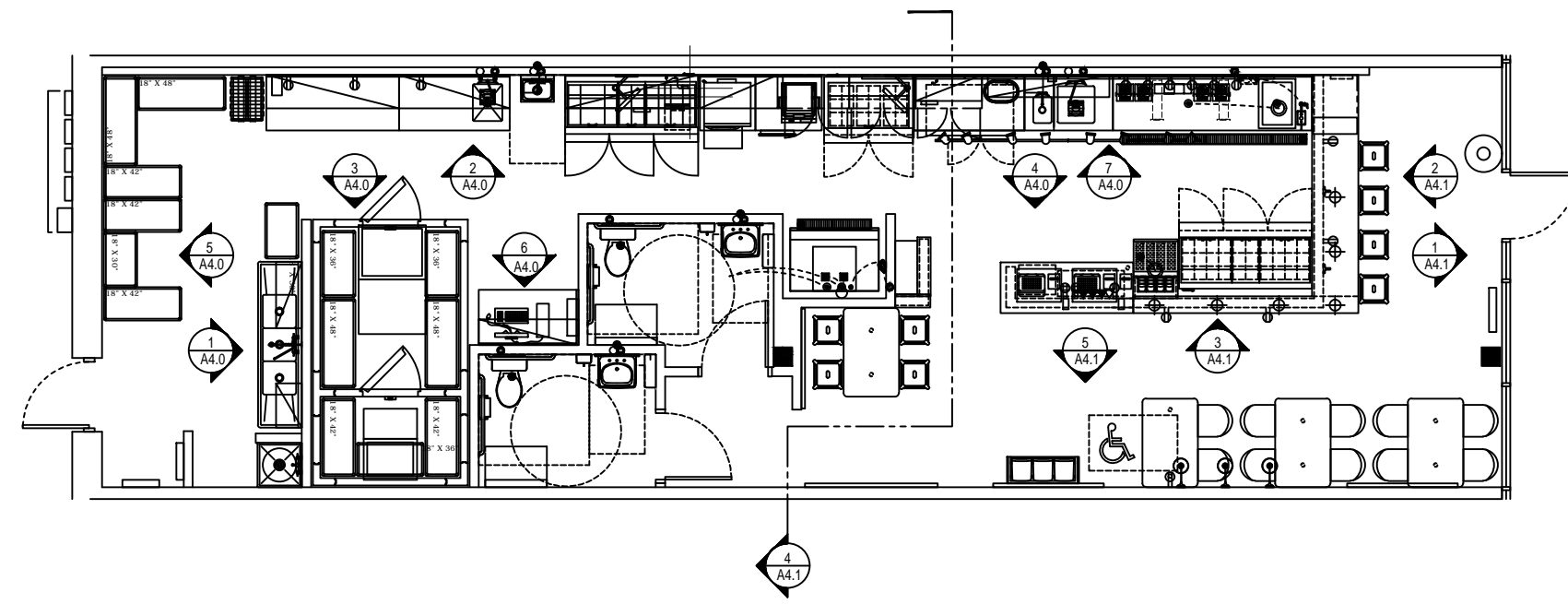


**6 DESK ELEVATION & SECTION**  
A4.0

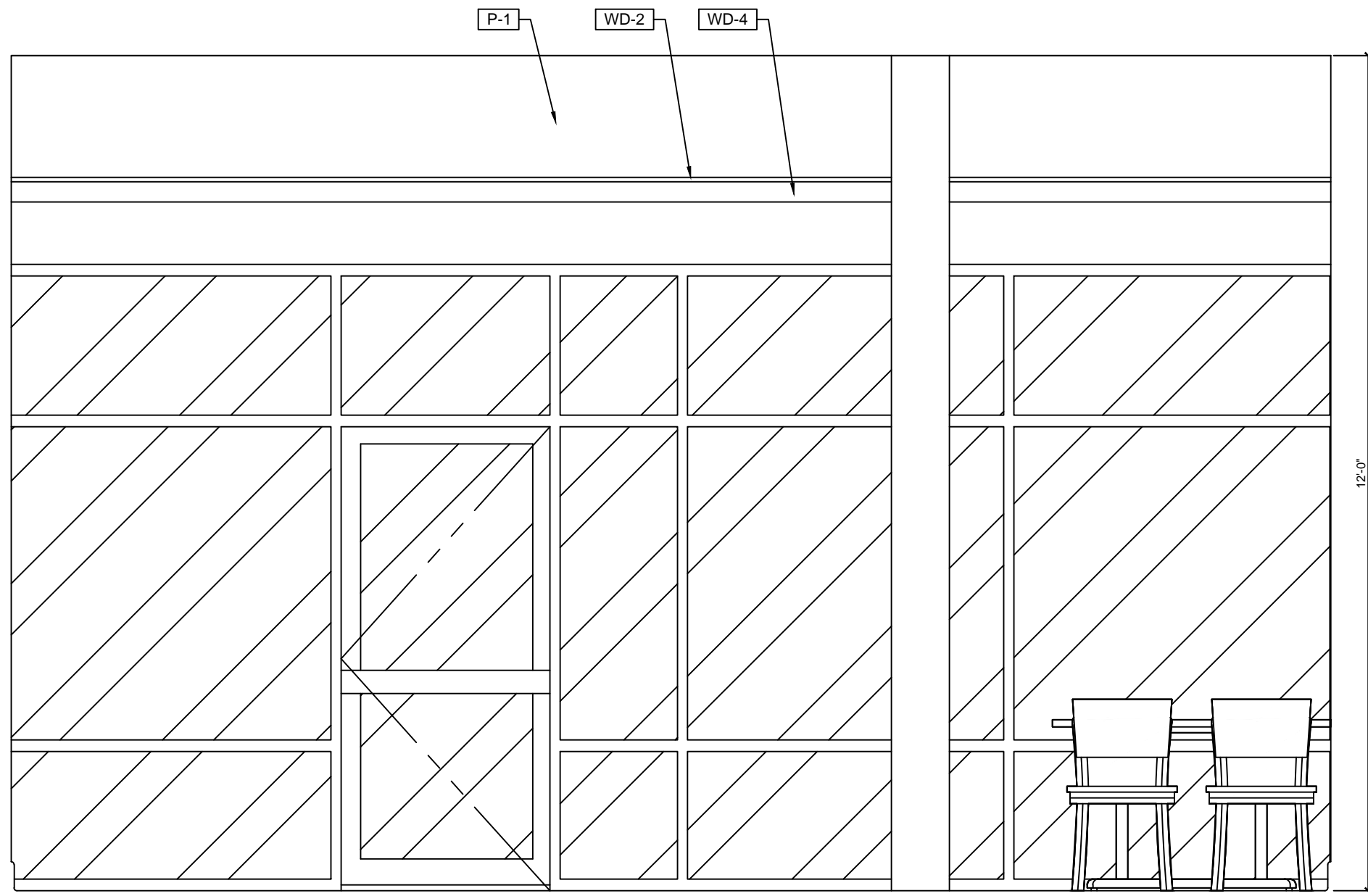


**7 BACK LINE ELEVATION**  
A4.0

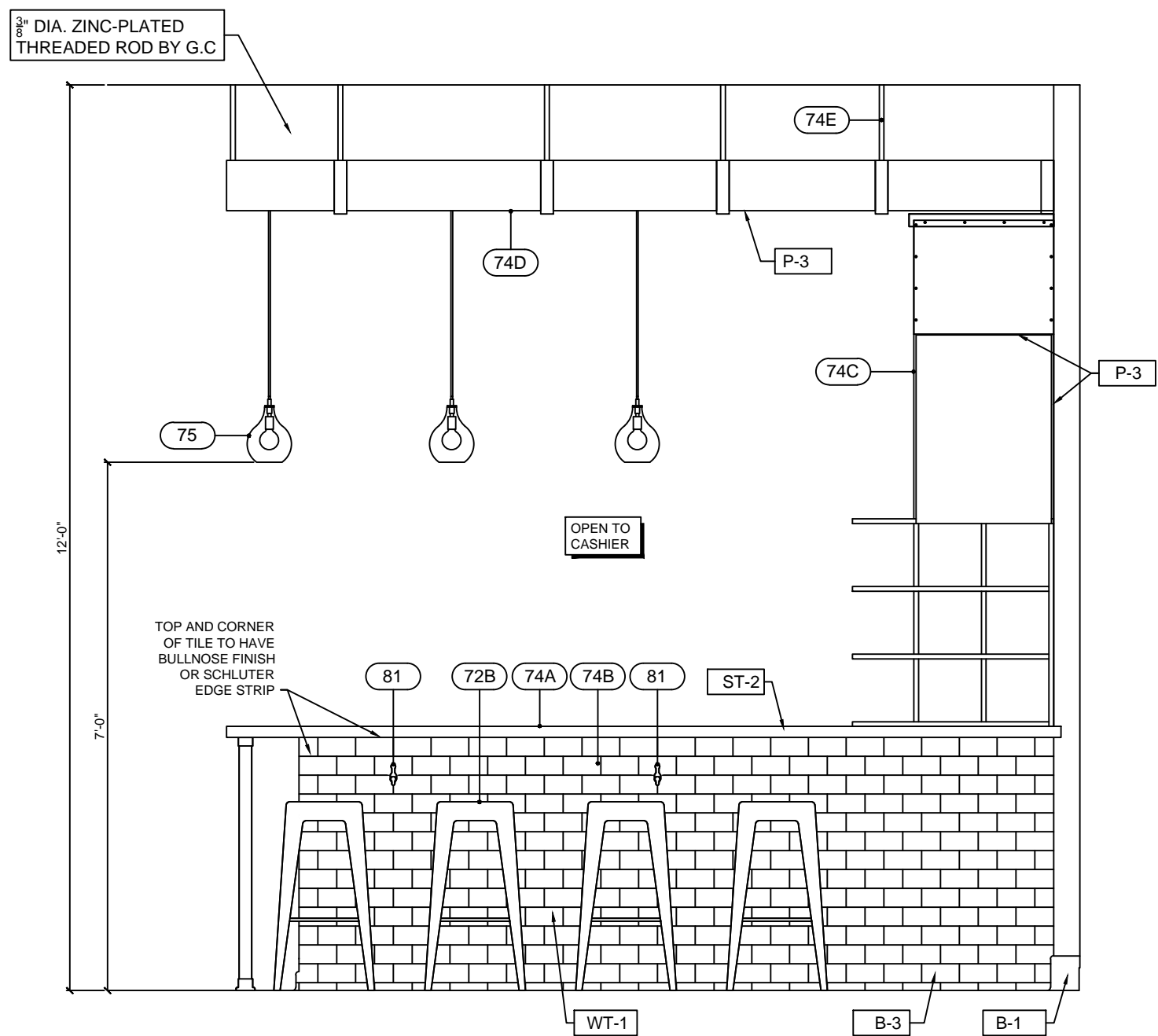




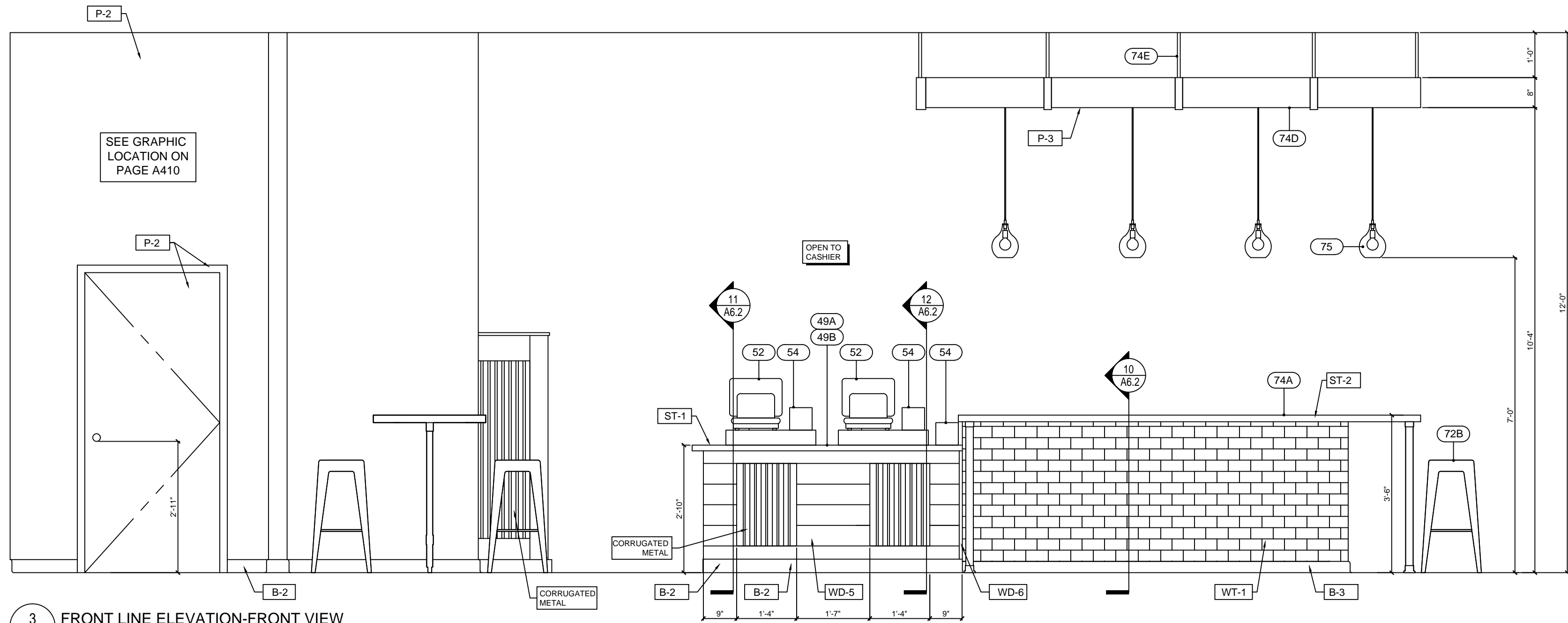
**PROPOSED FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



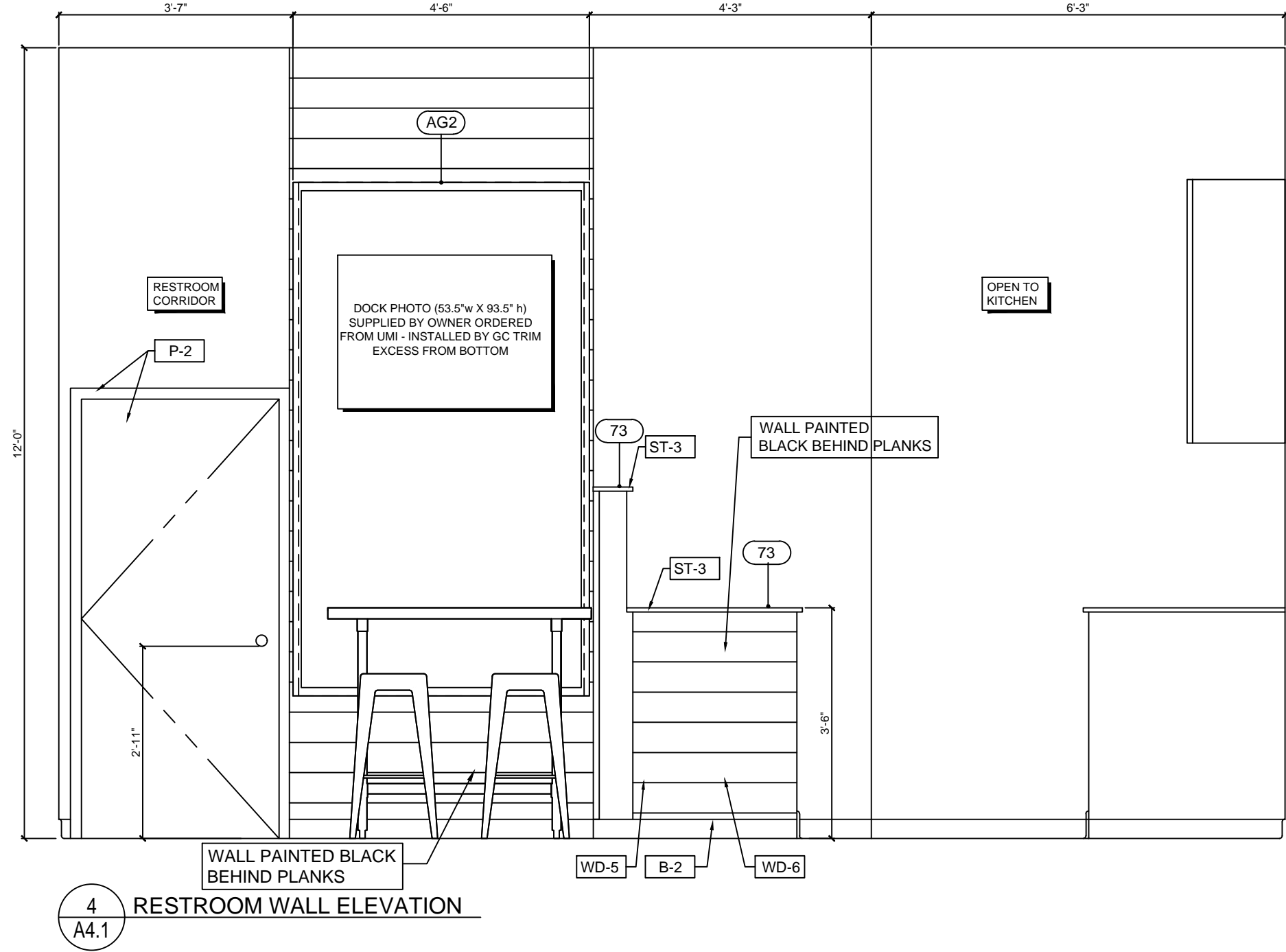
**1 ENTRY WALL**



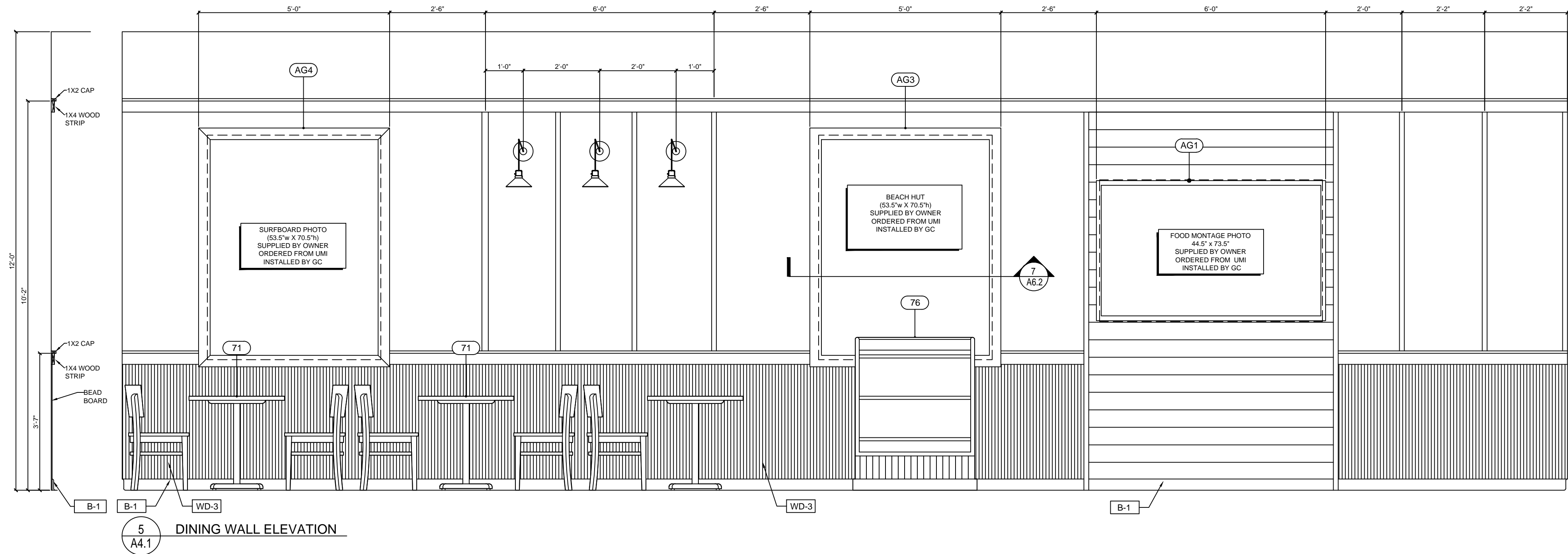
**2 SMOOTHIE DINING COUNTER ELEVATION**



**3 FRONT LINE ELEVATION-FRONT VIEW**



**4 RESTROOM WALL ELEVATION**

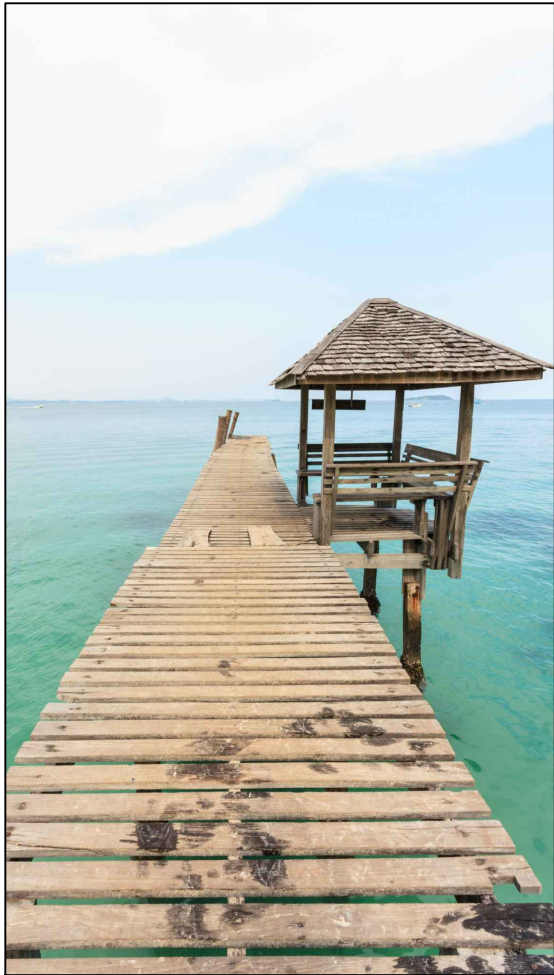


**5 DINING WALL ELEVATION**

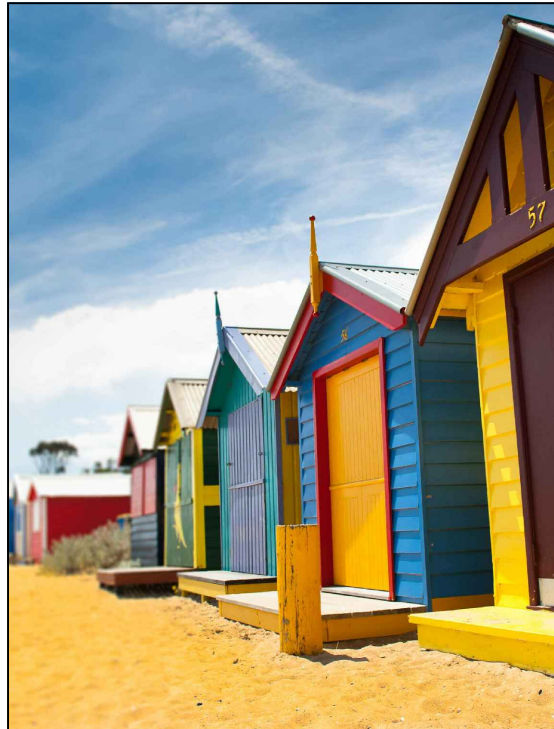




ARTWORK (AG-1)  
SCALE: NTS



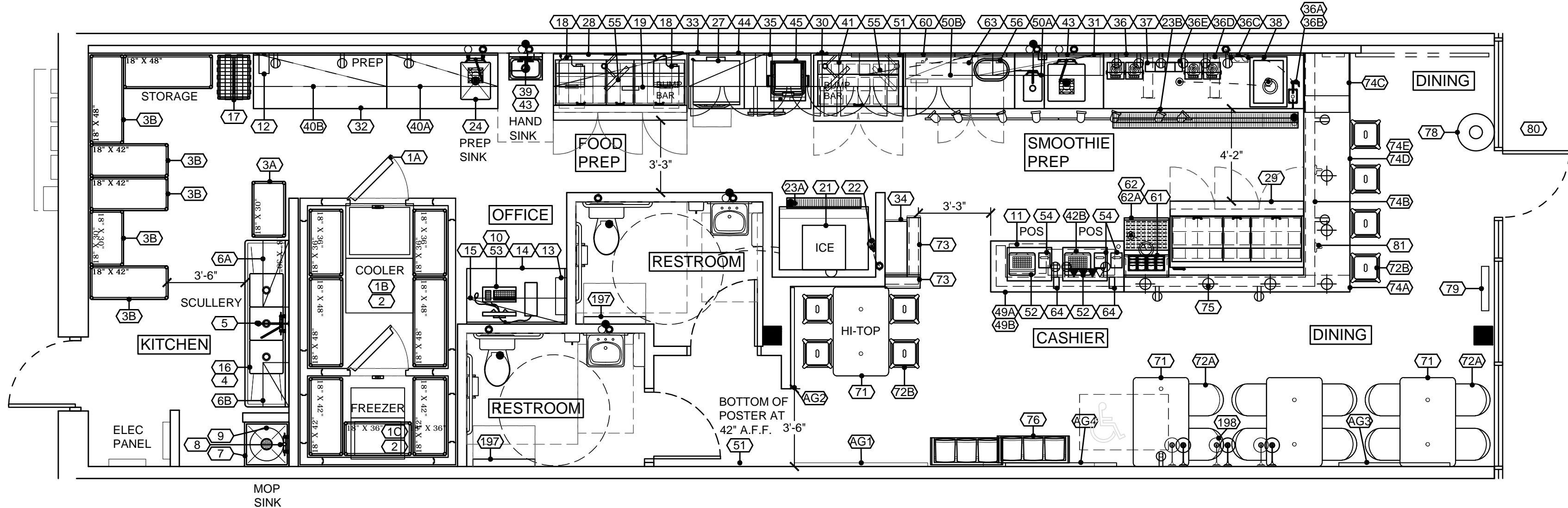
ARTWORK (AG-2)  
SCALE: NTS



ARTWORK (AG-3)  
SCALE: NTS



ARTWORK (AG-4)  
SCALE: NTS



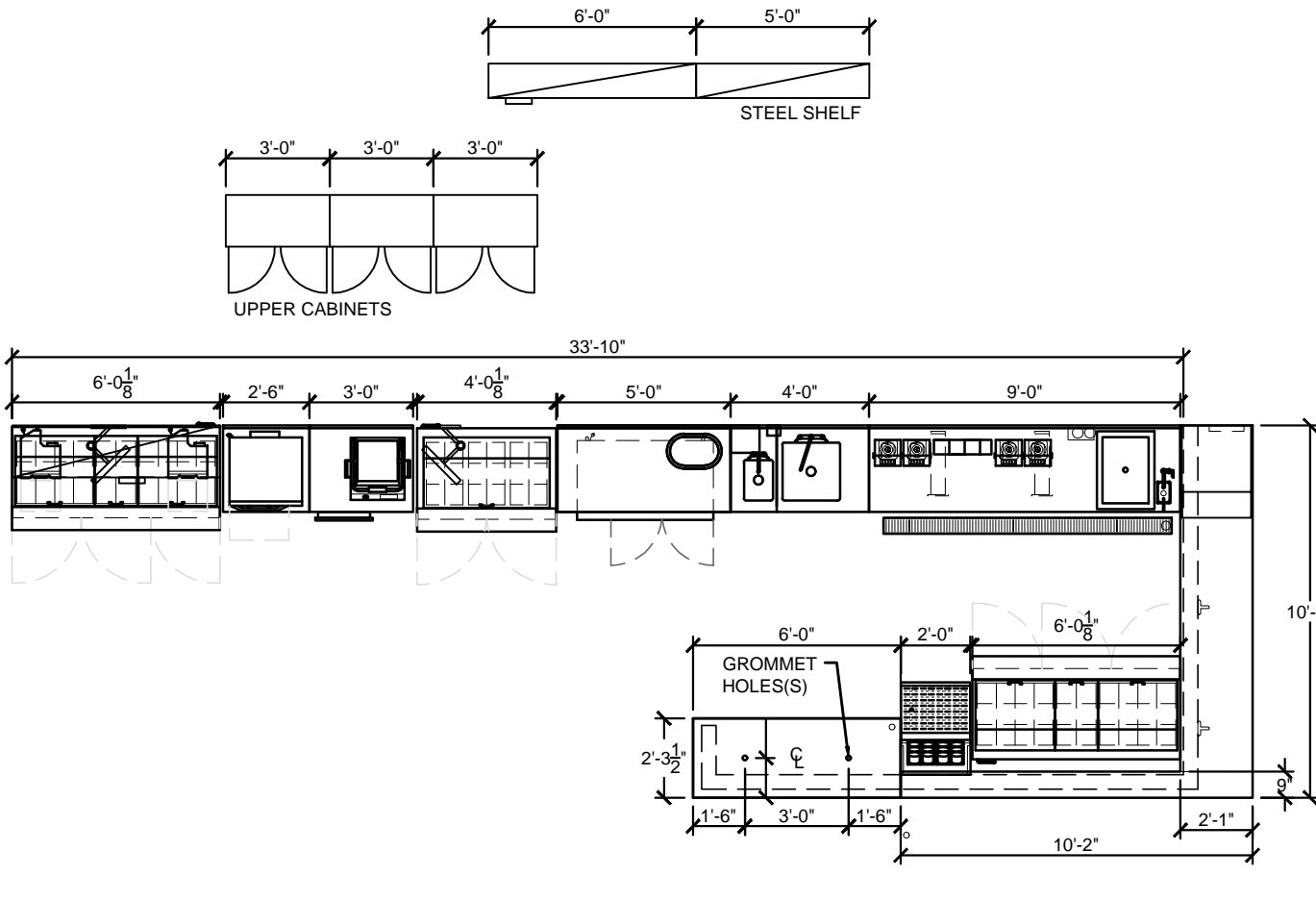
**1** EQUIPMENT FLOOR PLAN  
SCALE: 1/4" = 1'-0"

**EQUIPMENT DELIVERY NOTES:**  
THE GC IS TO COORDINATE THE DELIVERY OF THE EQUIPMENT WITH EQUIP SUPPLIER. IT IS THE RESPONSIBILITY OF THE FRANCHISEE OR THEIR AGENT TO ACCEPT DELIVERY AND TO INSPECT FOR DAMAGE AND SHORTAGES. IN THE ABSENCE OF THE FRANCHISEE OR THEIR AGENT THE CONTRACTOR WILL ACCEPT DELIVERY. DAMAGE AND SHORTAGES MUST BE NOTATED ON THE RECEIVING DOCUMENT OR BILL OF LADING SUPPLIED BY THE FREIGHT CARRIER. THE PARTY RECEIVING DELIVERY IS LIABLE FOR DAMAGE AND MISSING ITEMS, UNLESS NOTED ON THE RECEIVING DOCUMENT OR BILL OF LADING. CONTACT EQ SUPPLIER WITH ANY ISSUES ABOUT DAMAGES, SHORTAGES, OR WHATEVER SHIPMENT SHOULD BE REFUSED. IF IN DOUBT, SIGN FOR THE DELIVERY AS DAMAGED, TAKE PHOTOS OF THE DAMAGED ITEMS IN ITS ORIGINAL PACKAGING AND RETAIN ALL ORIGINAL PACKING MATERIALS. ONCE A DELIVERY IS RECEIVED, INSPECT DELIVERABLES FOR CONCEALED DAMAGE, AND REPORT DAMAGES TO EQ SUPPLIER IMMEDIATELY SO A CONCEALED DAMAGE CLAIM CAN BE MADE. ALL CONCEALED DAMAGE MUST BE REPORTED BACK TO EQ SUPPLIER WITHIN 24 HOURS OF RECEIPT OF EQUIPMENT OR NO CONCEALED FREIGHT CLAIM WILL HAVE TIME TO PROCESS. ALL ORIGINAL DAMAGED PACKING PACKING MATERIALS MUST BE KEPT FOR INSPECTION.

SIGNATURE OF APPROVAL OF REVIEW

TROPICAL SMOOTHIE CAFE \_\_\_\_\_  
EQUIPMENT SUPPLIER \_\_\_\_\_  
NEPTUNE DESIGN GROUP \_\_\_\_\_

SMOOTHIE LINE / FOOD LINE EQUIPMENT DIMENSIONS



ARTWORK SCHEDULE				
NO.	QTY.	DESCRIPTION	PROVIDER	VENDOR
AG-1	1	FOOD MONTAGE PHOTO	F	UMI
AG-2	1	DOCK PHOTO	F	UMI
AG-3	1	BEACH HUT PHOTO	F	UMI
AG-4	1	SURF BOARD PHOTO	F	UMI
AG-5	0	PALM TREE PHOTO	F	UMI

HEALTH DEPT NOTES:

1. TILE OR FRP ON ALL RESTROOM WALLS UP TO 6'-0" AFF- SEE ELEVATIONS ON A2.0.
2. NO OPERABLE WINDOWS WITHIN THIS PROJECT.
3. DOORS AND WINDOW FRAMES SHALL BE SMOOTH FINISHED.
4. HAND WASHING SIGNS ARE REQUIRED AT ALL SINKS FOR EMPLOYEES.
5. NO DIPPER WELL PROVIDED- #36 IS A WATER SPIGOT- SEE P SHEETS
6. WALK-IN COOLER IS SELF-CONTAINED- NO FLOOR SINK REQUIRED.
7. 3 COMPARTMENT SINK IS DESIGNED TO EQUIP LARGEST UTENSILS AND IS THE STANDARD SIZED 3 COMPARTMENT SINK USED FOR TROPICAL SMOOTHIE.
8. ALL COUNTER-MOUNTED EQUIPMENT MUST BE MOUNTED ON 4" LEGS, SEALED TO THE COUNTER OR EASILY MOVABLE.
9. ALL EQUIPMENT SEALED TO THE WALL OR TO ADJOINING EQUIPMENT OR SPACED TO FACILITATE CLEANING.
10. CORPORATE HAS DETERMINED THAT ADEQUATE FACILITIES FOR MAINTAINING FOOD AT HOT OR COLD TEMPS WITH ACCURATE THERMOMETERS. SITE CONFIRMATION WILL BE REQUIRED.
11. WALL CABINETS ARE MADE OF APPROVED / SUITABLE MATERIALS - SUBJECT TO INSPECTORS APPROVAL.
12. WALK-IN COOLERS SHALL BE PROPERLY INSTALLED.
13. ITEM #36 IS A WATER SPIGOT- NO DRAIN-SEE P SHEETS.
14. GAS LINES, WATER PIPES, ELECTRICAL LINES, PANEL BOXES AND CONDUITS SHALL BE LOCATED AND PROPERLY INSTALLED AS TO FACILITATE EASY CLEANING OF FLOORS, WALLS, CEILING AND EQUIPMENT.
15. DUMPSTER WILL BE REPLACED AS NEEDED AS CURRENT DESIGN DOES NOT HAVE WATER OR DRAIN.
16. A COVERED TRASH CAN WILL BE PROVIDED IN WOMEN'S RESTROOM.
17. GLOVES AND HAIR RESTRAINTS WILL BE PROVIDED BY MANAGER AND WORN AT ALL TIMES BY EMPLOYEES.
18. ONE EMPLOYEE MUST HAVE AN APPROVED FOOD SAFETY CERTIFICATE. ALL PLATES AND CUPS WILL BE REUSED- SINGLE SERVE ONLY.
19. A CONSUMER ADVISORY STATING THE COUNTRY OF ORIGIN FOR ALL SEAFOOD, HAZARDS OF UNDERCOOKED MEATS AND EGGS, AND LISTING FOOD ALLERGY INGREDIENTS WILL BE PLACED ON THE MENU OR A PLACARD IN PUBLIC VIEW.
20. THERMOSTATS WILL BE PROVIDED TO CHECK THE INTERNAL TEMP OF FOOD.

**NOTE:**  
REFERENCE SHOP DRAWINGS FROM NEPTUNE ARE AVAILABLE TO GC UPON REQUEST, TO BE USED AS A REFERENCE ONLY. ORIGINAL SHOP DRAWINGS SHOULD BE PRODUCED FOR THIS SPECIFIC LOCATION AND SENT TO NEPTUNE FOR REVIEW.

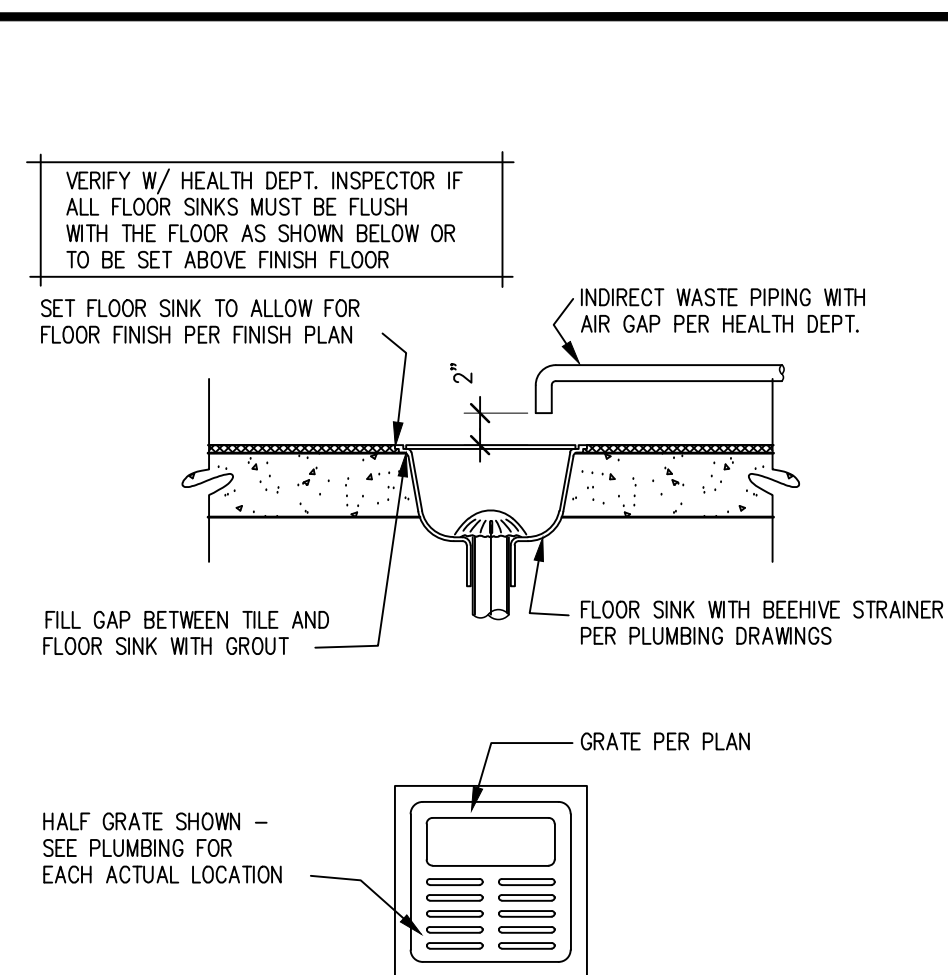
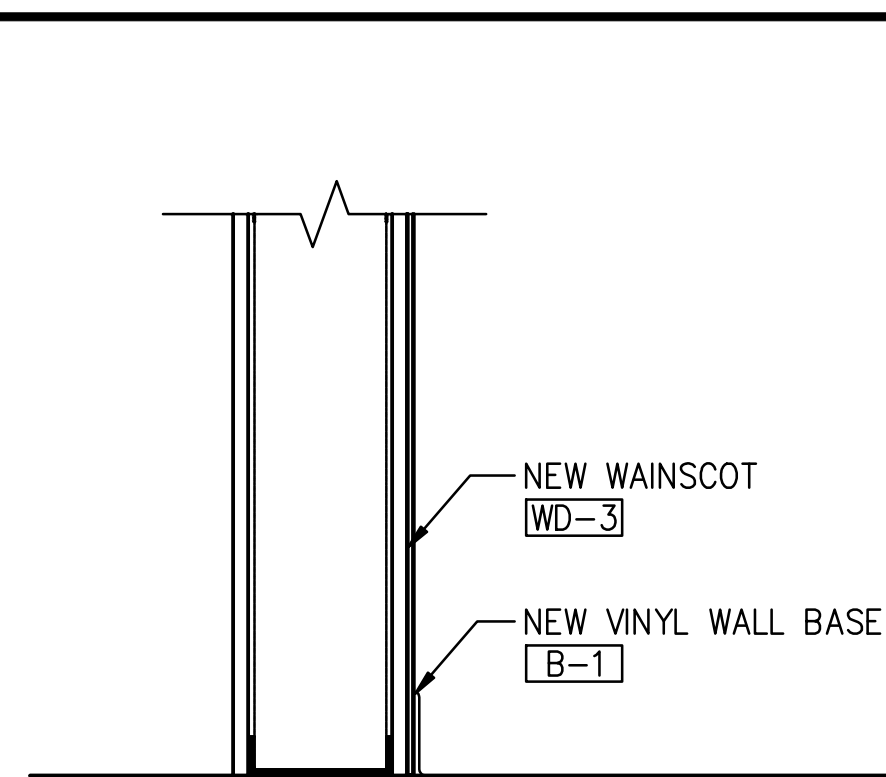
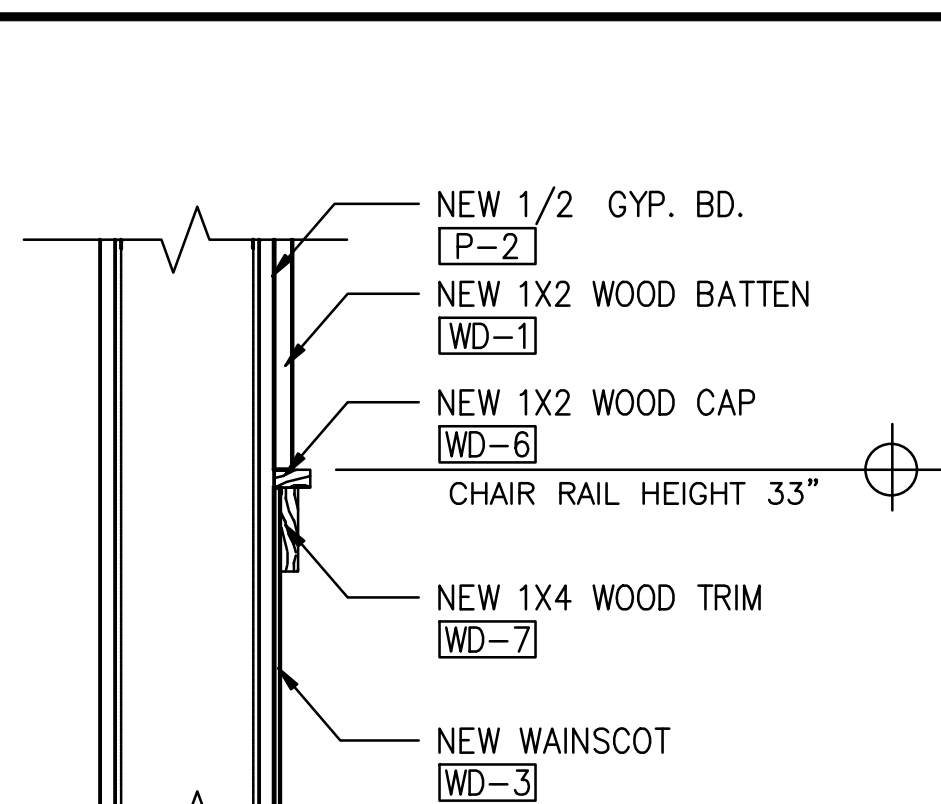
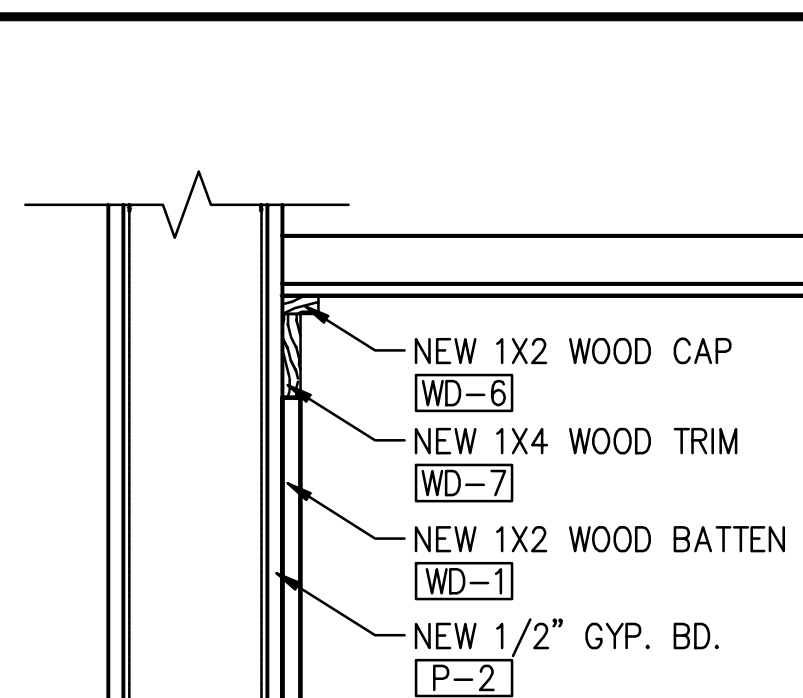
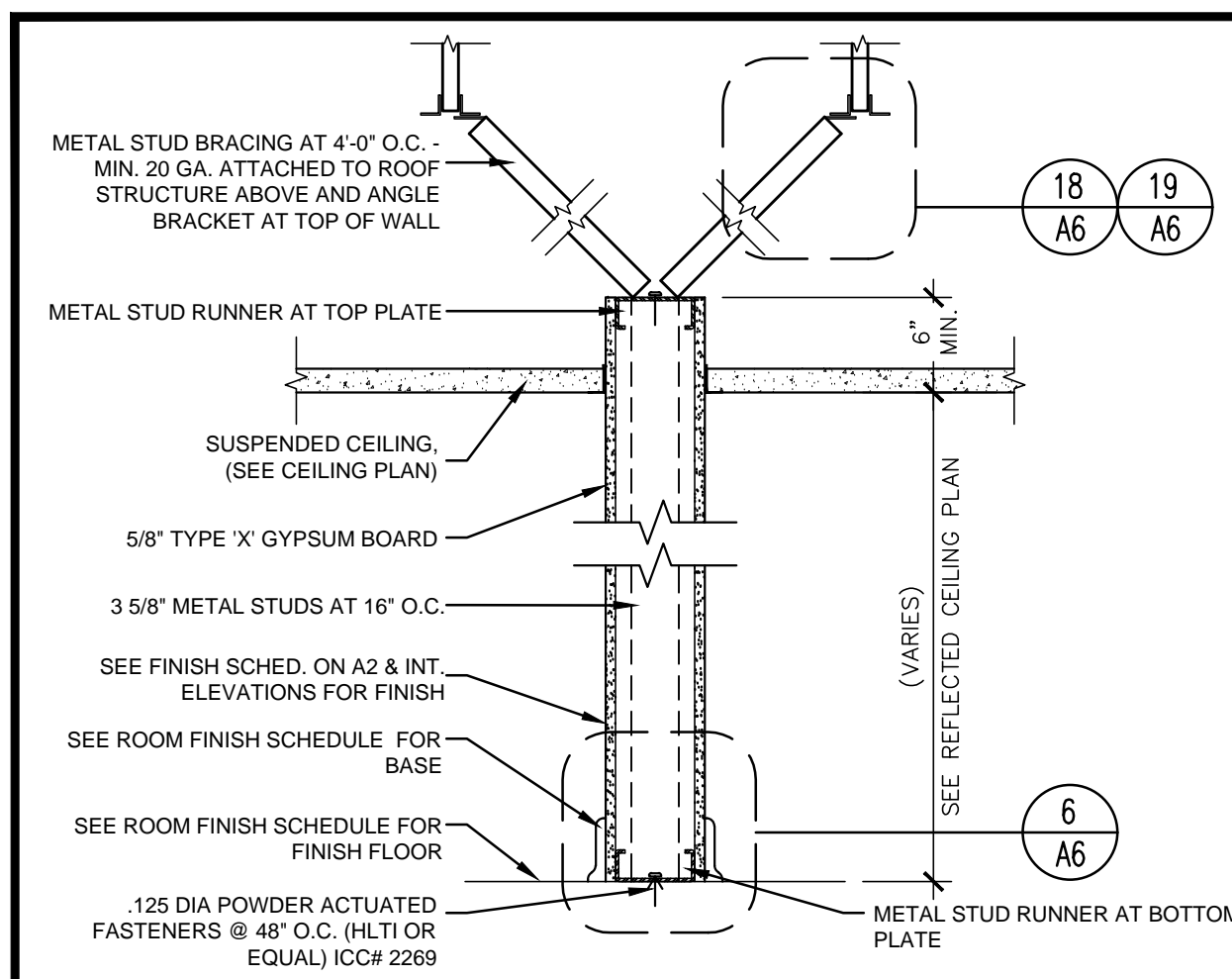
EQUIPMENT SCHEDULE					
NO.	QTY	EQUIPMENT DESCRIPTION	PROVIDER	VENDOR	INSTALL
BACK OF HOUSE EQUIPMENT					
1A	1	WALK-IN COOLER / FREEZER COMBO UNIT	F	EV	GC
1B	1	COOLER REFRIGERATION, SELF-CONTAINED	F	EV	GC
1C	1	FREEZER REFRIGERATION, SELF-CONTAINED	F	EV	GC
2	7	WALK-IN COOLER / FREEZER SHELVING	F	EV	GC
3A	1	75" TALL DRY STORAGE SHELVING (EPOXY COATED)	F	EV	EV
3B	6	75" TALL DRY STORAGE SHELVING (ZINC COATED)	F	EV	EV
4	1	THREE COMPARTMENT SINK	F	EV	PC
5	1	PRE-RINSE FAUCET	F	EV	PC
6A	1	WALL SHELF, WIRE (EPOXY COATED), 14" X 24"	F	EV	EV
6B	1	WALL SHELF, WIRE (EPOXY COATED), 14" X 36"	F	EV	EV
7	1	MOP SINK	GC	SPS	GC
8	1	SERVICE FAUCET	GC	SPS	GC
9	1	WATER HEATER	GC	SPS	GC
10	LOT	SURVEILLANCE SYSTEM	F	VLL	V
11	1	SAFE	F	EV	EV
12	1	PRINTER WITH SHELF	F	JOLT	GC
13	1	POS PATCH PANEL	F	M	RTG
14	1	MANAGER'S DESK	F	EV	GC
15	1	WALL SHELVES	F	EV	GC
16	LOT	WAREWASHING & SANITIZING PRODUCTS	F	C	C
17	1	18" X 24" DUNNAGE RACK	F	EV	EV
18	2	ON QUE	F	EV	EV
19	1	18" X 72", ON QUE SHELF	F	EV	EV
SMOOTHIE LINE / FOOD LINE EQUIPMENT					
21	1	ICE MAKER W/ BIN	F	EV	EV
22A	1	WATER FILTER, 3-STAGE	F	EV	EV
22B	1	ICE MACHINE TREATMENT SYSTEM	F	EV	EV
23A	1	CHANNEL DRAIN, 5" (3'-4" LONG)	GC	SPS	PC
23B	1	CHANNEL DRAIN, 5" (8'-4" LONG)	GC	SPS	PC
24	1	PREP SINK, 30" X 60"	F	EV	EV
25	-	SPARE NUMBER	-	-	-
26	-	SPARE NUMBER	-	-	-
27	2	MICROWAVE CONVECTION OVEN	F	EV	EV
28	1	REFRIGERATED PREP TABLE, 30 PAN	F	EV	EV
29	1	REFRIGERATED PREP TABLE, 30 PAN	F	EV	EV
30	1	REFRIGERATED PREP TABLE, 18 PAN	F	EV	EV
31	1	WORK TABLE W/HAND SINK & DUMP SINK, 30" X 48"	F	EV	PC
32	1	WORK TABLE, 30" X 72"	F	EV	EV
33	1	EQUIPMENT STAND, 30" X 30" (26" HGT.)	F	EV	EV
34	1	WALL MTD. WORK TOP, 30" X 12"	F	EV	EV
35	1	WORK TABLE, 30" X 36", WITH UTENSIL DRAWER	F	EV	EV
36	1	BLENDER TABLE, 30" X 108"	F	EV	PC
36A	1	WATER SPIGOT	F	EV	PC
36B	1	WATER CONTAINER, DROP-IN	F	EV	EV
36C	1	WATER FILTER, 2-STAGE	F	EV	PC
36D	4	CUP DISPENSER	F	EV	EV
36E	1	LID DISPENSER	F	EV	EV
37	4	BLENDER, BAR TYPE	F	EV	EV
38	1	ICE BIN, DROP-IN	F	EV	PC
39	1	HAND SINK, HANDS-FREE	F	EV	PC
40A	1	WALL SHELF, WIRE (ZINC COATED), 18" X 60"	F	EV	EV
40B	1	WALL SHELF, WIRE (ZINC COATED), 18" X 72"	F	EV	EV
41	3	WALL CABINET, 36"	F	EV	EV

EQUIPMENT SCHEDULE					
NO.	QTY	EQUIPMENT DESCRIPTION	PROVIDER	VENDOR	INSTALL
BACK OF HOUSE EQUIPMENT					
42A	-	SPARE NUMBER	-	-	-
42B	1	MOBILE STORAGE UNIT, 14" X 36"	F	EV	EV
43	2	SOAP / PAPER TOWEL DISPENSERS	F	C	C
44	1	S/S L-SHAPED WALL PANEL	F	EV	EV
45	1	PANINI PRESS	F	EV	EV
CASHIER AREA EQUIPMENT					
49A	1	CASHIER COUNTER TOP & SUPPORT LEG	F	EV	EV
49B	1	CASHIER COUNTER SUPPORT WALL	F	GC	GC
50A	1	WALL SHELF, S/S, 12" X 60"	F	EV	EV
50B	1	WALL SHELF, S/S, 12" X 72"	F	EV	EV
51	1	MENU BOARD SYSTEM, WALL MOUNT, 9 PANELS	F	EV	EV
52	2	POS TERMINAL	F	M	RTG
53	1	POS SYSTEM - BACK OF HOUSE	F	M	RTG
54	3	POS PRINTER	F	M	RTG
55	2	KDS MONITOR	F	M	RTG
56	1	BEVERAGE ICE CHEST	F	EV	EV
57	-	SPARE NUMBER	-	-	-
57A	-	SPARE NUMBER	-	-	-
58	-	SPARE NUMBER	-	-	-
59	-	SPARE NUMBER	-	-	-
60	1	WORK TABLE, 30" X 60"	F	EV	EV
61	2	SUPPLEMENT HOLDER	F	EV	EV
62	1	DRAIN BOARD	F	EV	PC
62A	1	CUSTOM SHELF	F	EV	EV
63	1	UNDER COUNTER REFRIGERATOR	F	EV	EV
64	2	EMV CARD READER	F	M	RTG
DINING EQUIPMENT					
71	4	TABLE TOP & BASE	F	EV	EV
72A	12	DINING CHAIR	F	EV	EV
72B	8	DINING STOOL	F	EV	EV
73	2	HALF-HGT. WALL WITH TOP CAP	F	GC	GC
74A	1	SIT-DOWN COUNTER TOP & SUPPORT LEGS	F	EV	EV
74B	1	SIT-DOWN COUNTER SUPPORT WALL	F	GC	GC
74C	1	MILLWORK TO-GO CABINET	F	EV	EV
74D	1	MILLWORK SOFFIT	F	EV	EV
74E	1	THREADED MOUNTING RODS FOR SOFFIT	GC	GC	GC
75	6	PENDANT LIGHT	F	HL	GC
76	1	MARKET PLACE	F	EV	EV
77	-	SPARE NUMBER	-	-	-
78	1	TRASH CAN	F	EV	EV
78A	1	TRAY SHELF	F	EV	EV
79	1	TROPICAL SMOOTHIE NEON SIGN	F	EV	EV
80	1	EXTERIOR SIGNAGE	F	SC	SC
81	2	APPAREL HOOK	F	GC	GC
100	-	SPARE NUMBER	-	-	-
197	2	BBQ CHANGING STATION	F	EV	EV
198	3	WALL SCONCE LIGHTING	F	HL	GC

**NOTE:**  
TENANT & GC TO LOCATE & APPROVE EXACT LOCATION & WIRING OF LOW VOLTAGE SPEAKERS & SECURITY CAMERA. PRIOR TO INSTALL - THESE DOCUMENTS ARE USED FOR REFERENCE ONLY & FINAL PLACEMENT OF CAMERAS & SPEAKERS MUST BE APPROVED BY TENANT & COORDINATED BY INSTALLING CONTRACTOR.  
GC IS RESPONSIBLE FOR ALL LOW VOLTAGE EQUIPMENT WHICH INCLUDES BUT IS NOT LIMITED TO ALL AUDIO/VIDEO, MICROS, CAT 5, AND SPEAKERS.

ABBREVIATION KEY	
ABBR.	ABBREVIATION DESCRIPTION
F	FRANCHISEE
EV	EQUIPMENT VENDOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
CC	CONTRACTOR'S CHOICE
OC	OWNER'S CHOICE
LJ	LOCAL JURISDICTION
SC	SIGN COMPANY
VLL	VERIFY WITH LANDLORD
V	VENDOR
M	MICROS
RTG	RETAIL TECHNOLOGY GROUP
UMI	ULTERIOR MOTIVES INTERNATIONAL
HL	HERMITAGE LIGHTING
MMM	MUZAK (MOOD MEDIA)
C	CINTAS
UC	UTILITY COMPANY
SFS	SEE FINISH SCHEDULE
SPS	SEE PLUMBING SCHEDULE
INSTALL	EQUIPMENT INSTALLER
FIN. CON.	FINAL CONNECTIONS
DT	DRIVE-THRU
DBL	DOUBLE SHELVES





**IND ENTERPRISES, LLC**  
6501 E. GREENWAY PKWY #103-707 SCOTTSDALE, AZ 85254  
P 480-297-5577 [www.indentaz.com](http://www.indentaz.com)


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**SMOOTHIE**

TSC: FL-278

REVISION



DATE: 12.26.2019

REVIEW SET  
NOT FOR  
PERMIT

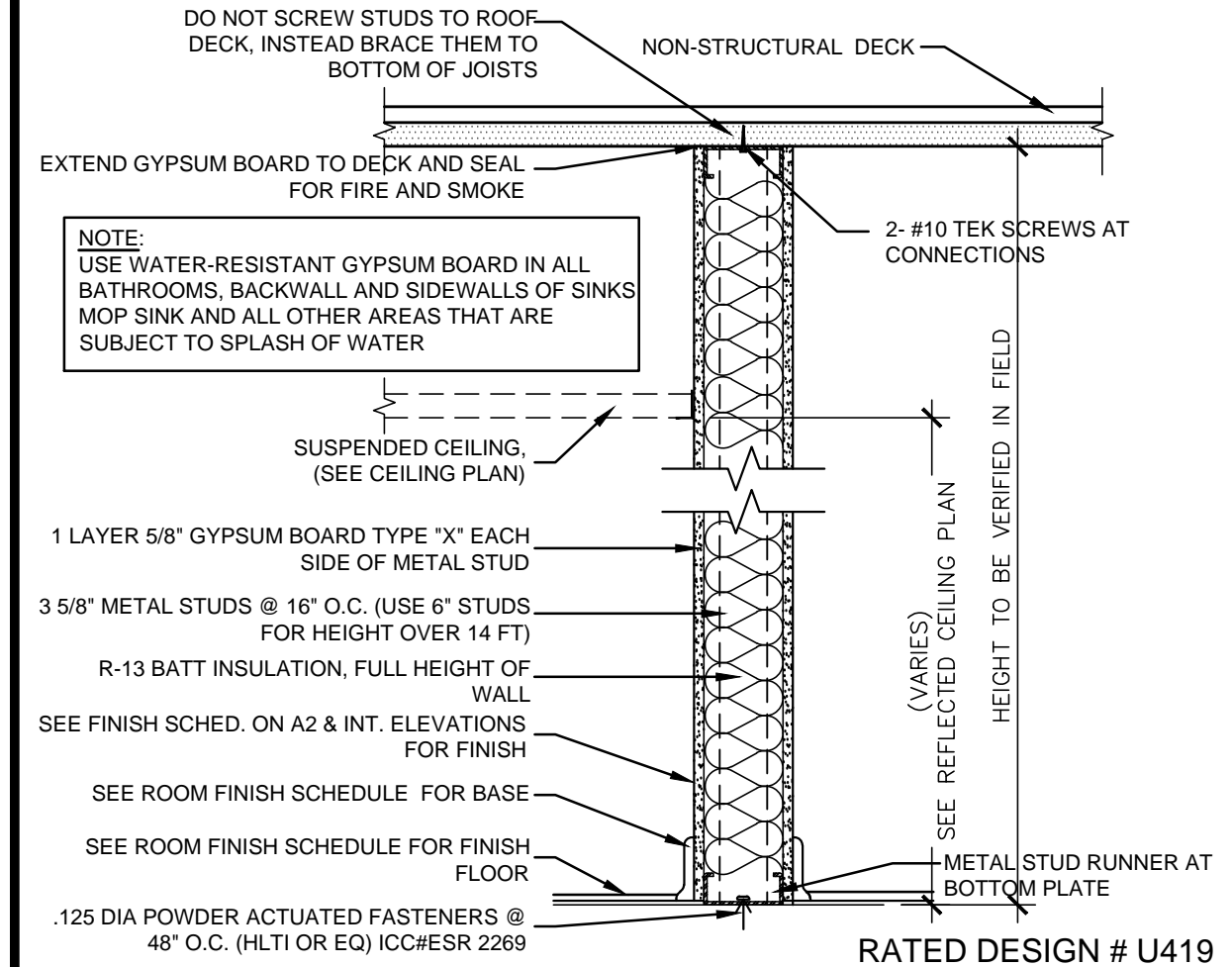
## DETAILS

## A6.0

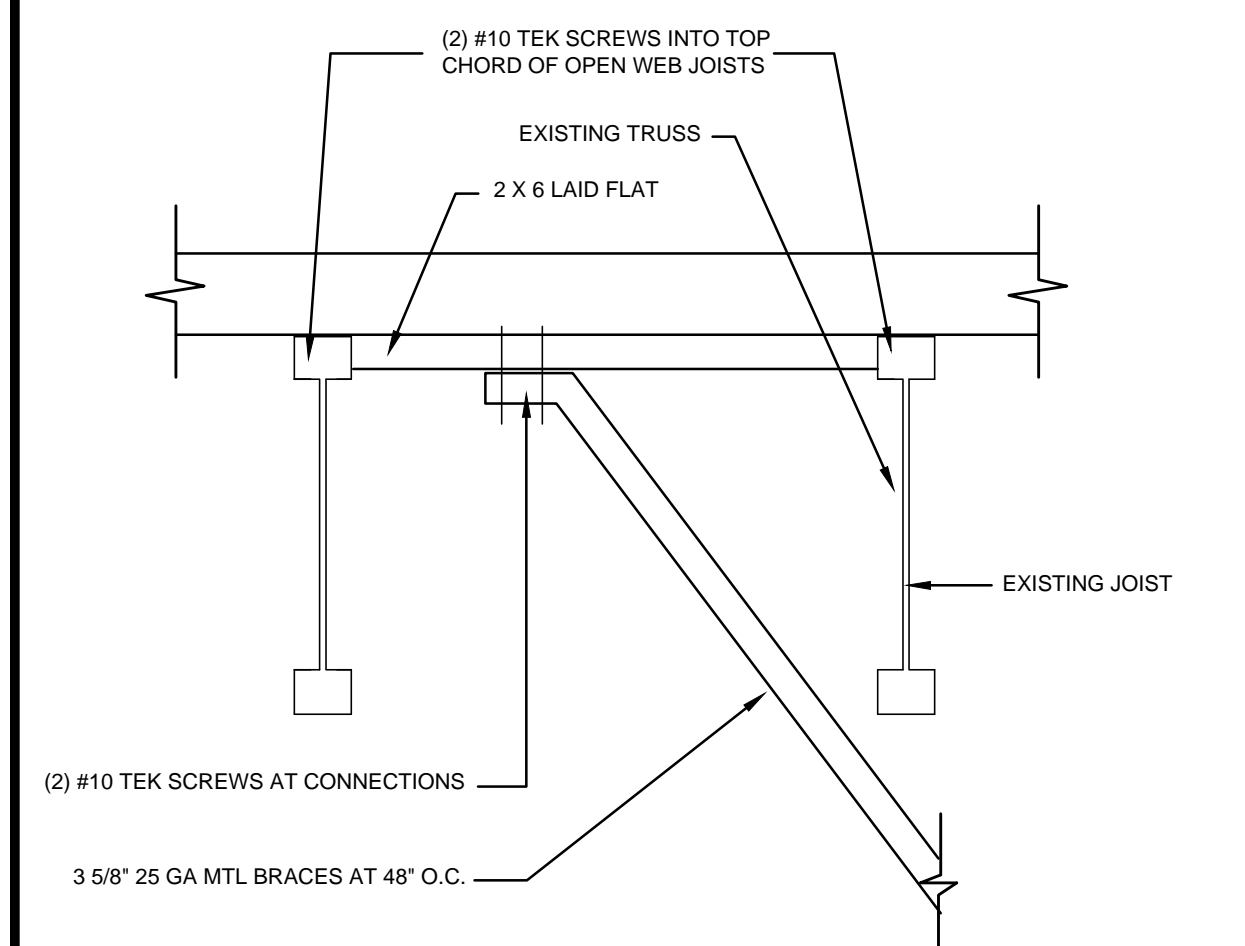
16 WALL PARTITION

NOTE:  
REFER TO 1/A3 FOR STUD  
GAUGE LIMITING HEIGHT  
SCHEDULE FOR ASSEMBLY

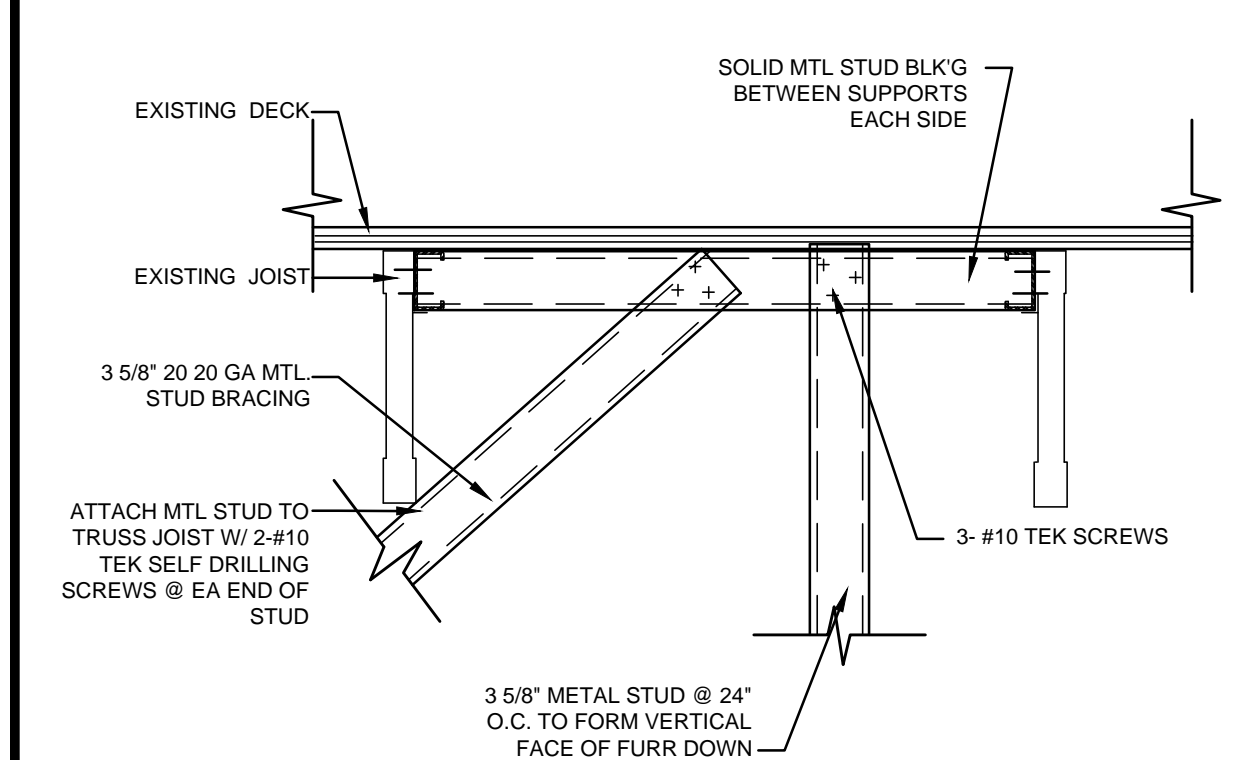
SCALE = N.T.S.



17 1 HR RATED WALL ASSEMBLY

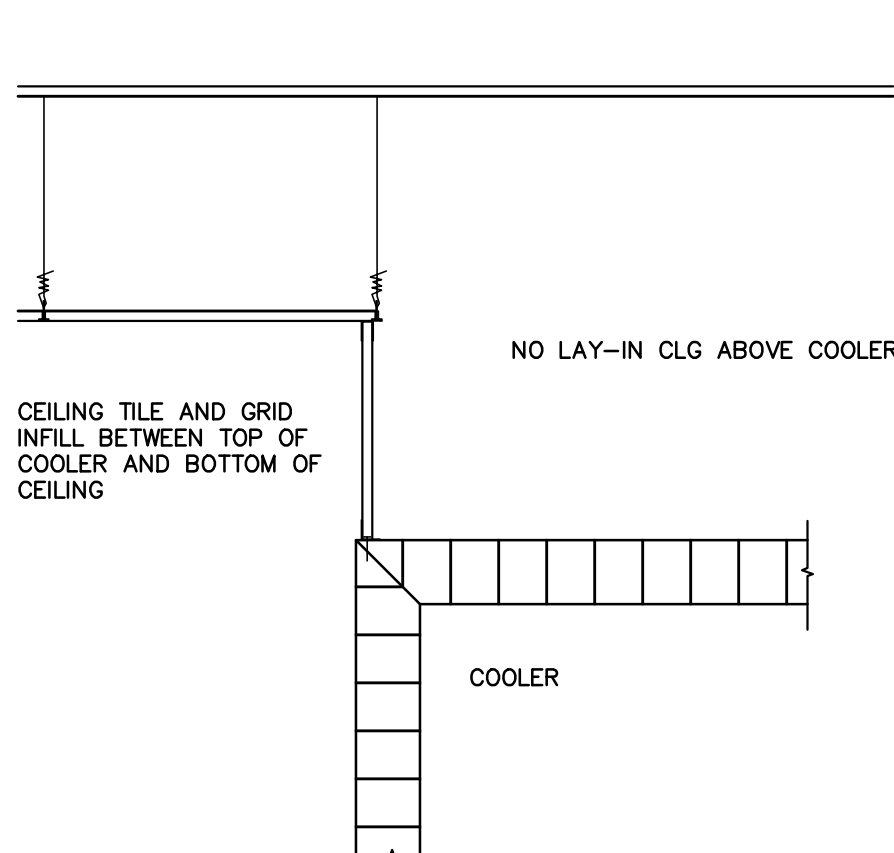


18 BRACE AT DECK

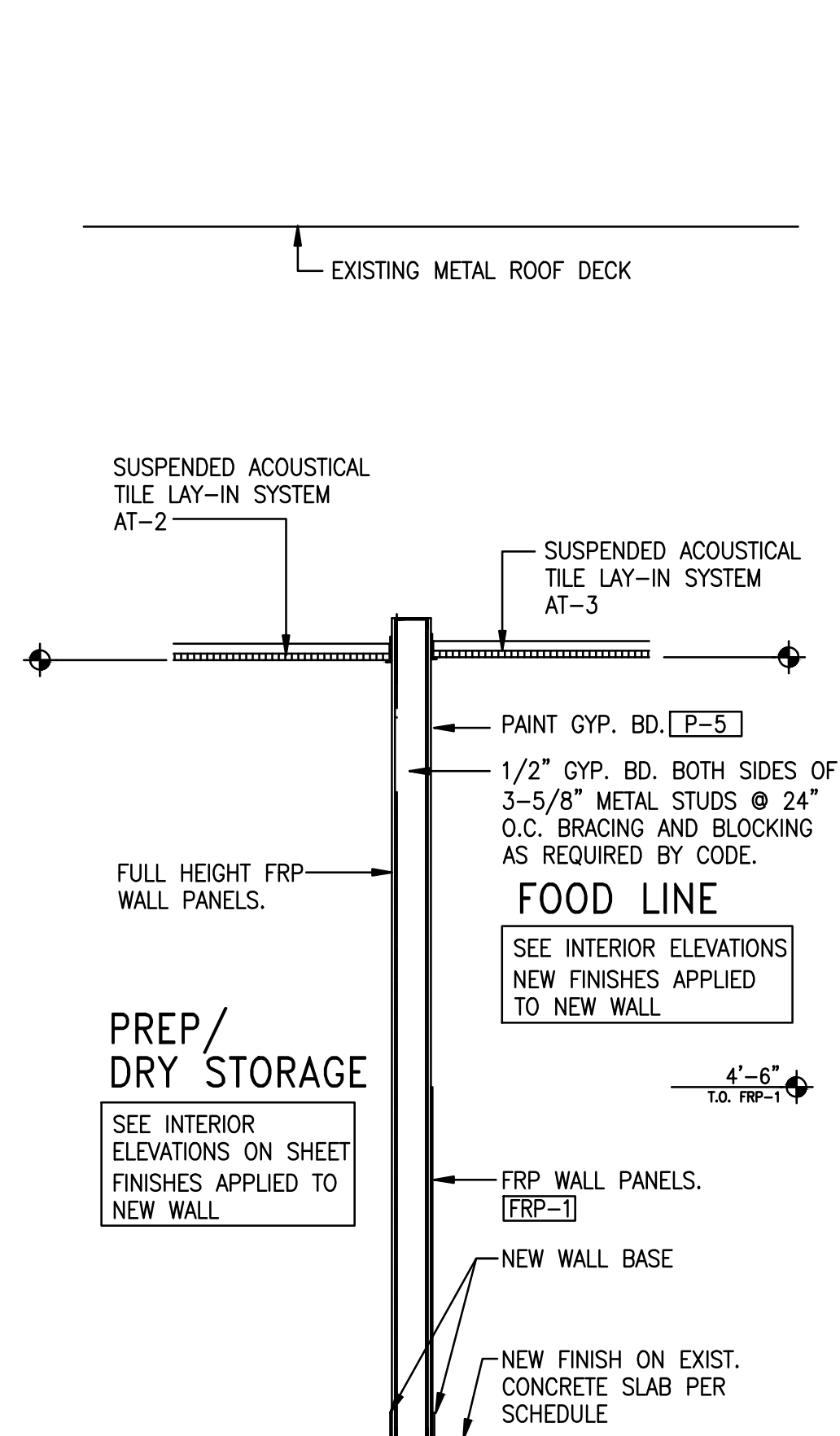


19	BRACE AT ROOF FRAMING	BRCE-RF1 N.T.S.
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### 13 | CEILING TRIM DETAIL



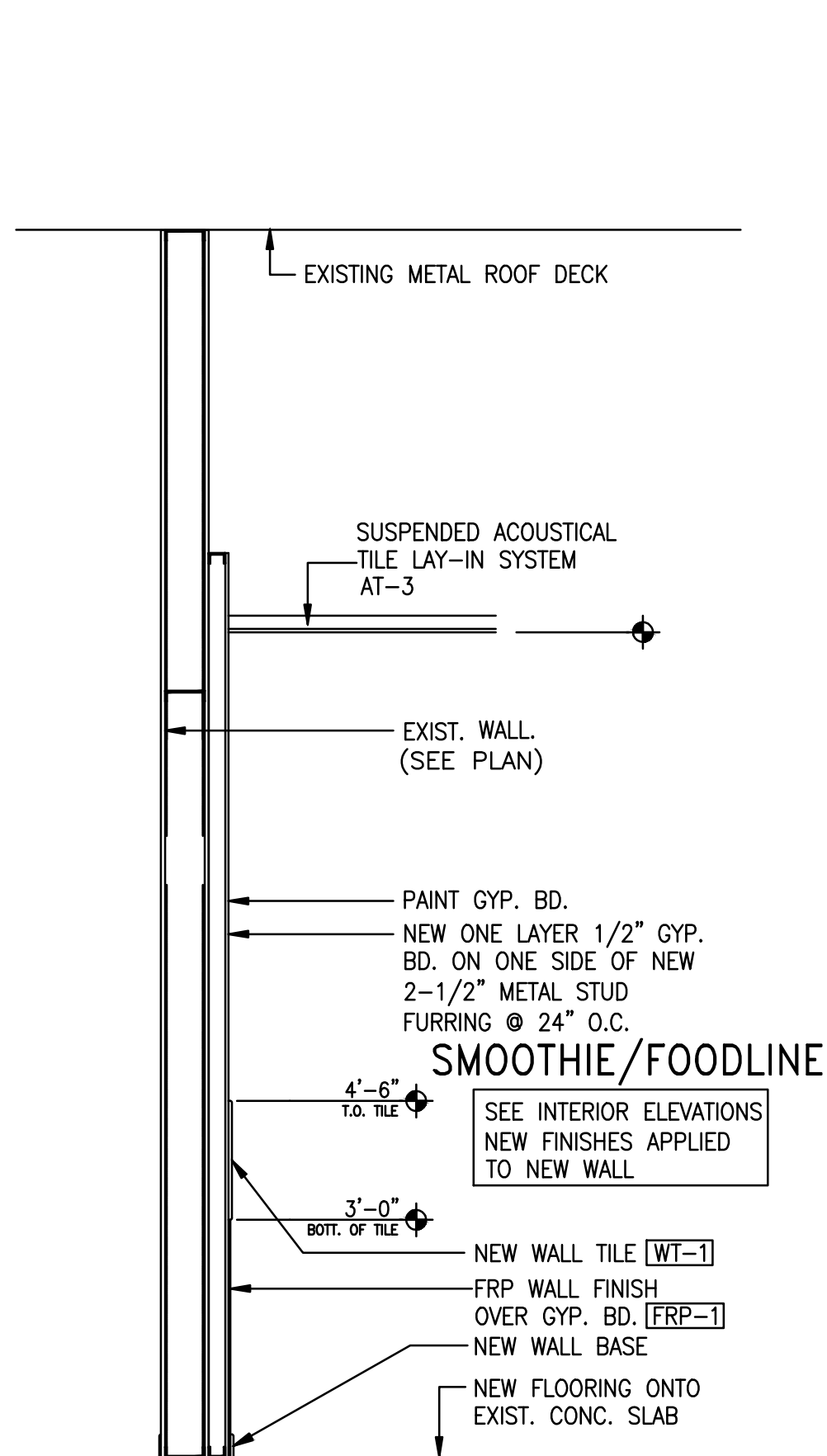
14 WALK IN COOLER SCALE = N.T.S.



15	WALL SECTION	N.T.S.
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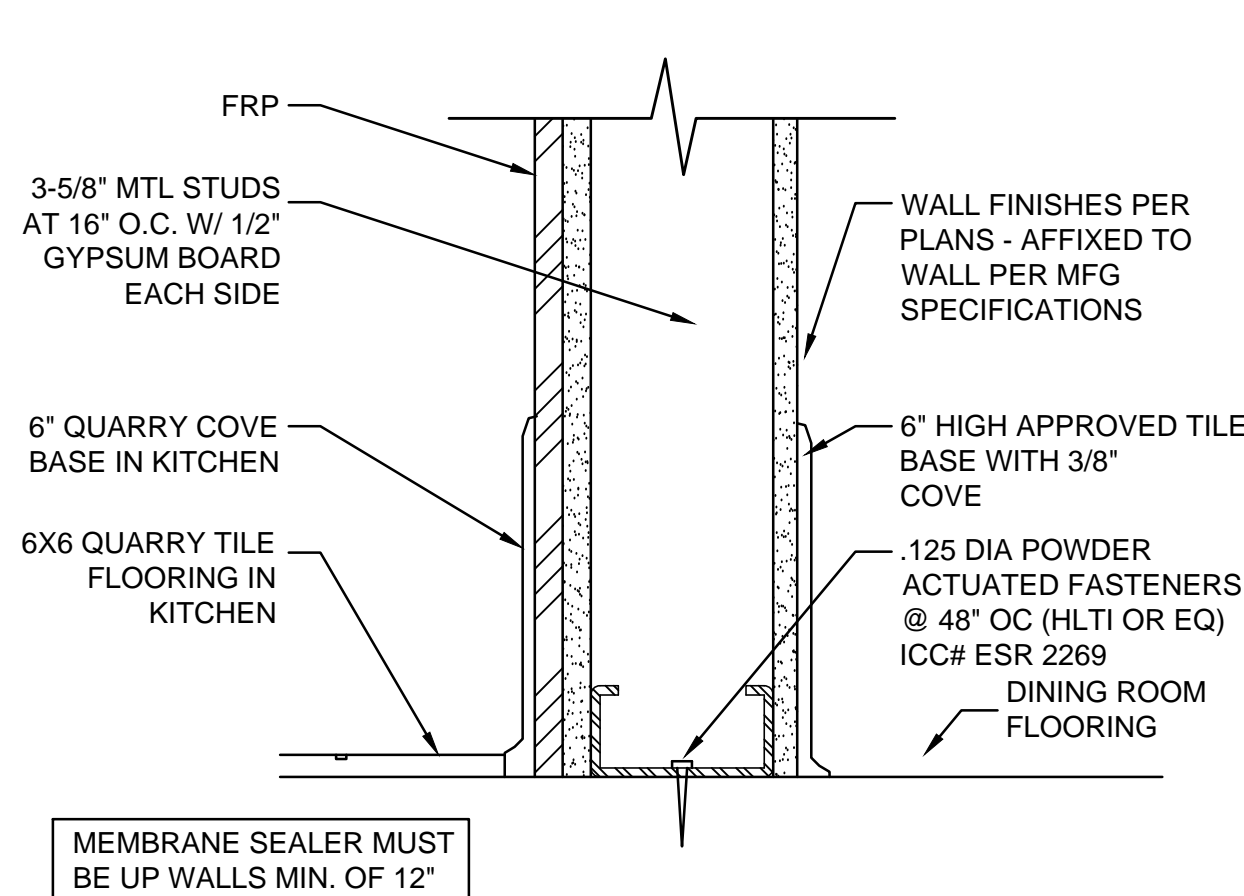
9 CHAIR RAIL DETAIL SCALE = N.T.S.

10	NOT USED	SCALE = N.T.S.
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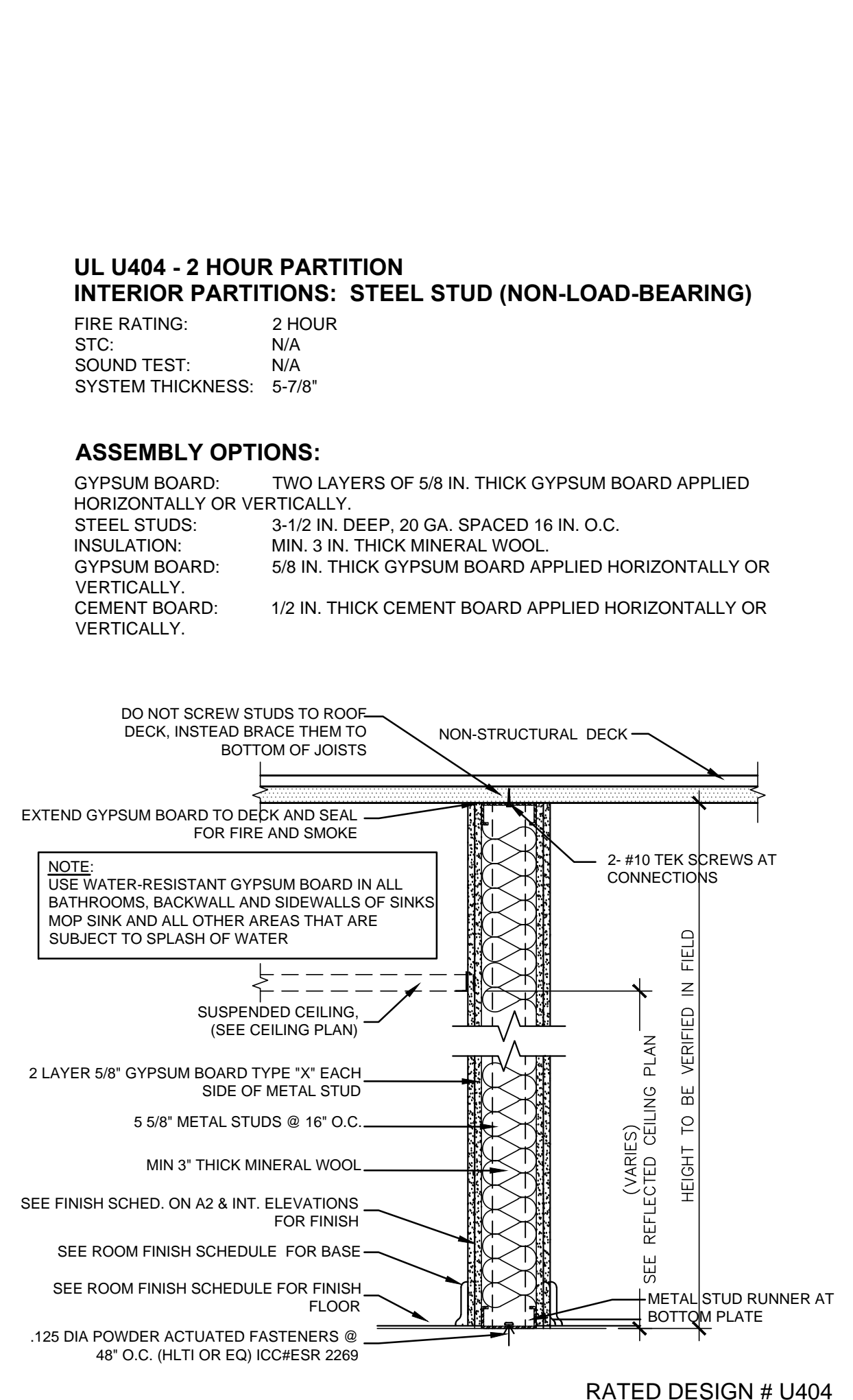


12	WALL SECTION	NT
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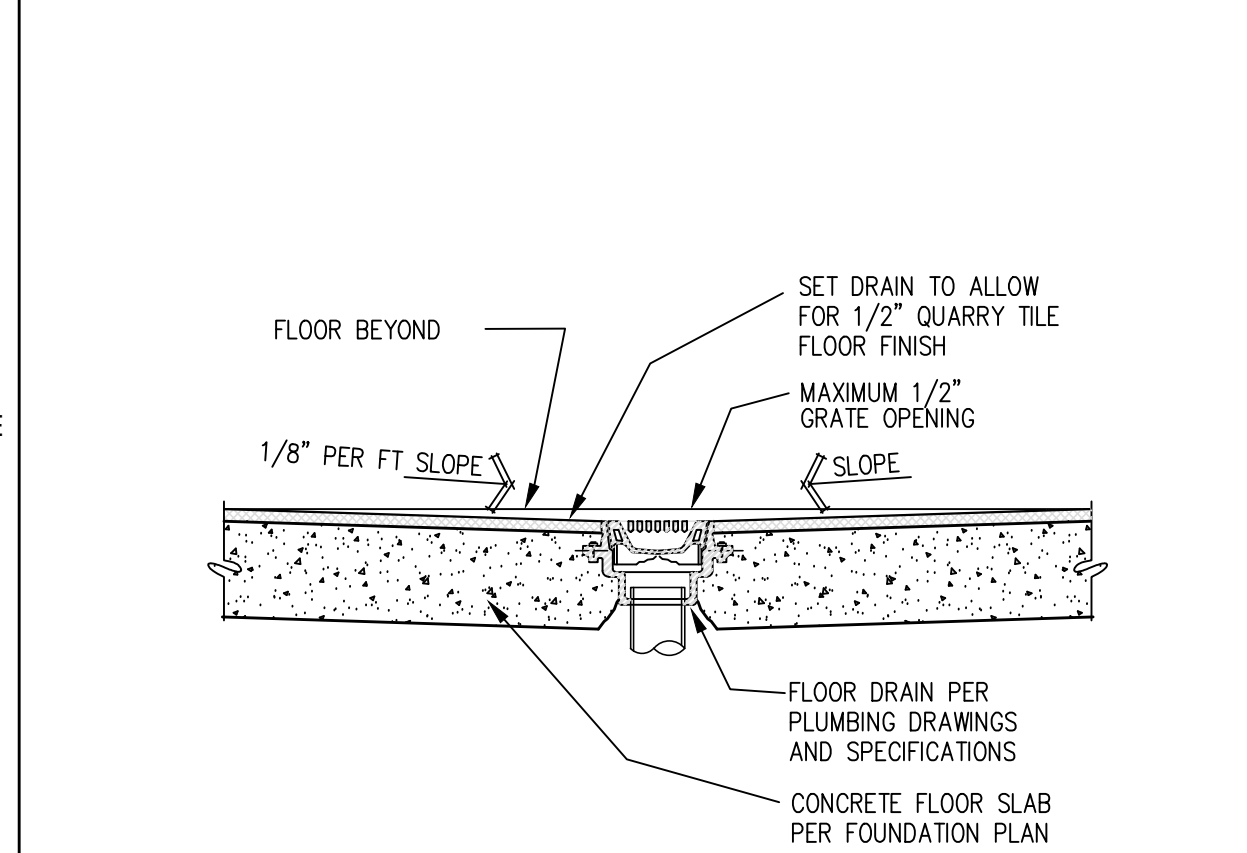
## 5 WALL BASE DETAIL



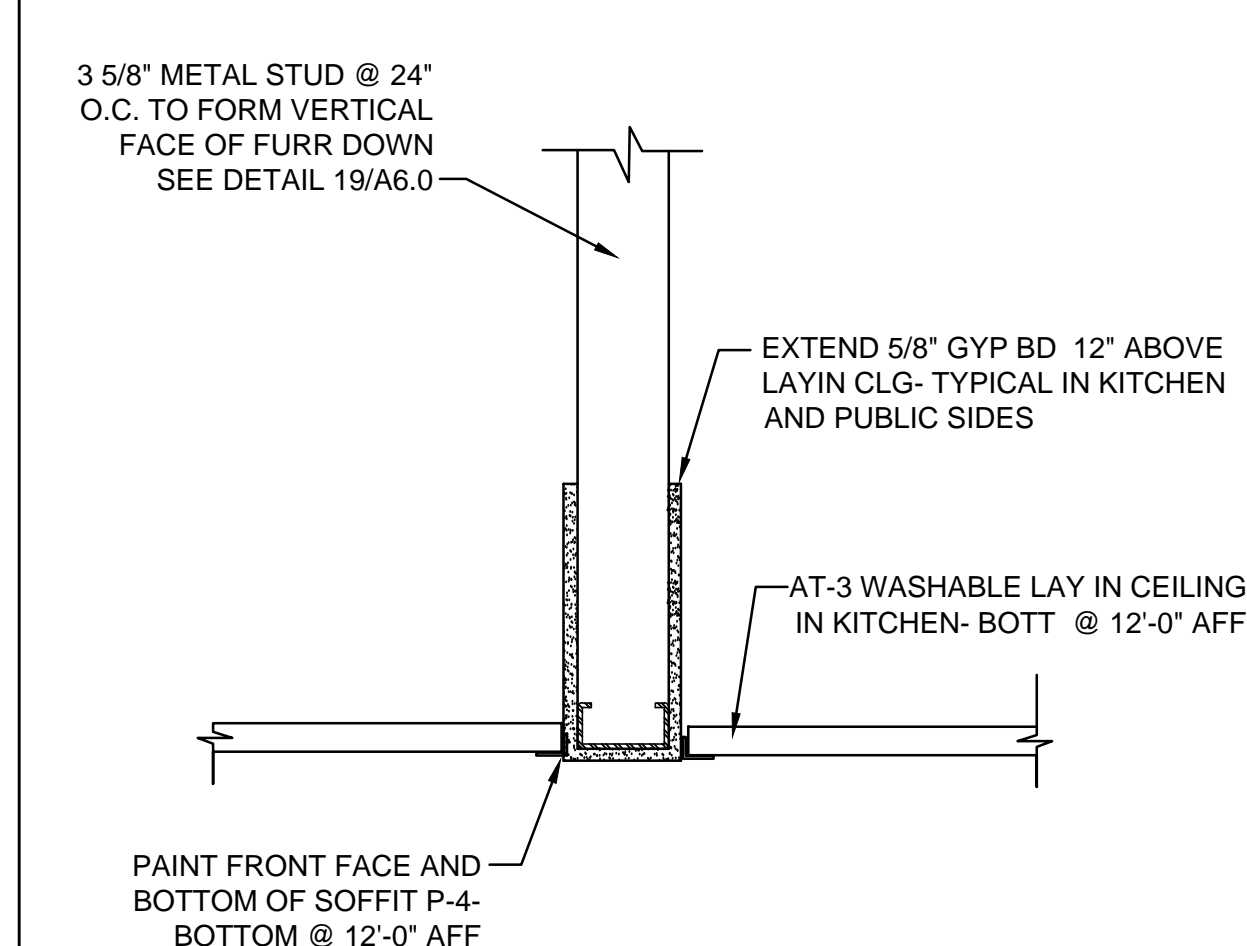
6 WALL SECTION AT FLOOR SCALE = NT



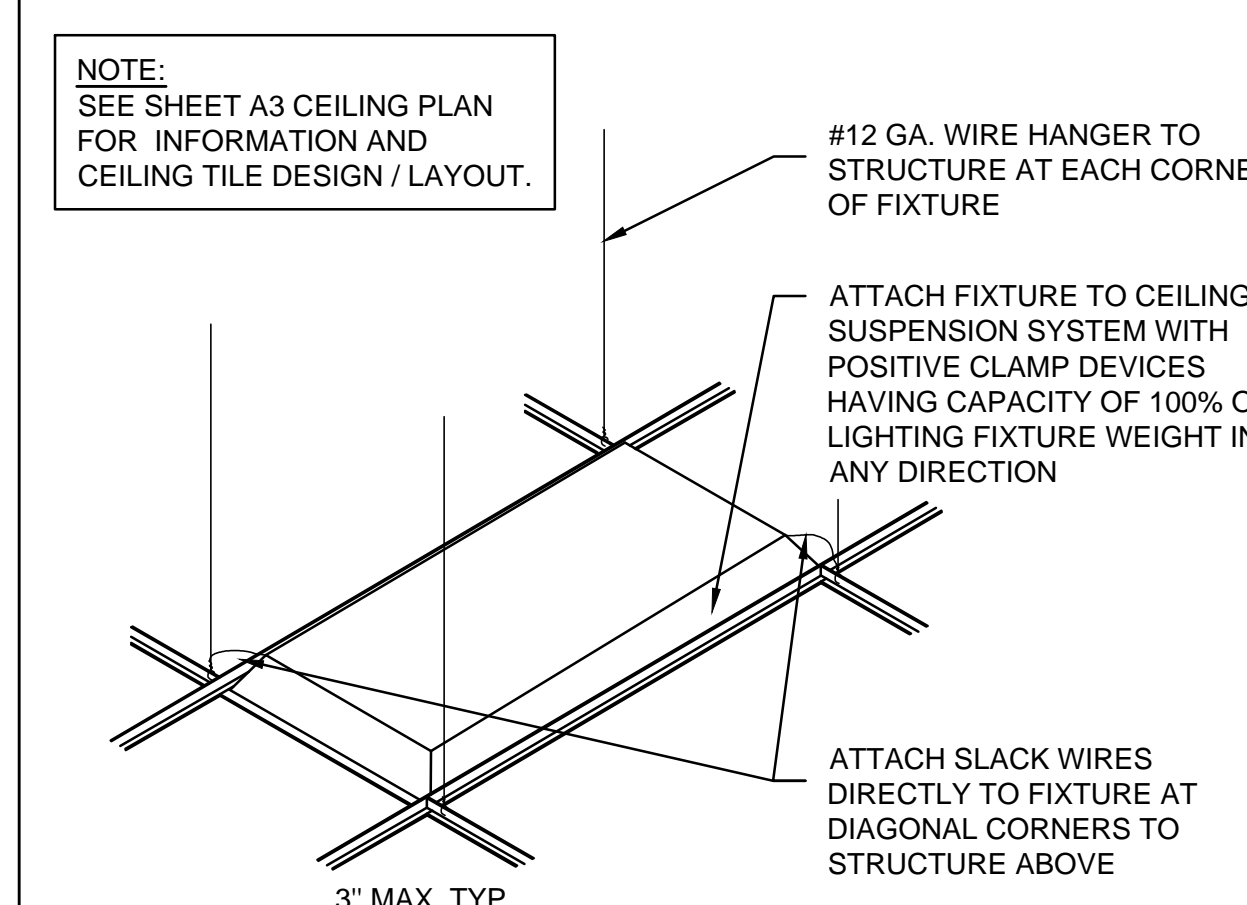
8	2 HR RATED WALL ASSEMBLY	NOTE: REFER TO 1/A3 FOR STUD GAUGE LIMITING HEIGHT SCHEDULE FOR ASSEMBLY	SCALE = N.T.
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1 FLOOR SINK DETAIL SCALE = NTS



3 SOFFIT AT FRONT COUNTER  
SCALE = NTS



## 4 LIGHT FIXTURE BRACING SCALE:



CONSTRUCTION NOTES:  
16GA S.S. TOP  
16GA S.S. BODY / DOORS  
MAGNETIC LATCHES  
LEVELING FEET

18 1/4 11 13/16 25 1/4 6 13/16 6 4 1/2 4 1/8

FIT CHECK AND SHIP LOOSE,  
T3300099  
MB11CIP MINGRAM BRASS  
DRINK/FAUCET FILTER

INSTALL,  
DROP-IN ICE BIN  
KROVNE METAL MODEL NO. B2712

INSTALL, TAPE DOWN FOUNTAIN JAR  
SERVER PRODUCTS MODEL NO. B2557

SHIPS LOOSE  
SIDE SPLASH

108 107 3/4 108 32 1/16 34 32 1/16 34 32 1/16 34 2 51/64

30 48 30 6



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## A6.2

1 ITEM #32, 34, 35 & 60 - WORK TABLE WITH BACKSPLASH  
1/2" = 1'-0"

2 ITEM #32 & 60 - WORK TABLE WITHOUT BACKSPLASH  
1/2" = 1'-0"

3 ITEM #32 & 60 - WORK TABLE WITH CASTERS  
1/2" = 1'-0"

4 ITEM #71 - DINING TABLE TOP  
1/2" = 1'-0"

5 ITEM #76 - MARKET PLACE  
1/2" = 1'-0"

6 ITEM #49 - CASHIER COUNTER TOP  
1/2" = 1'-0"

7 ITEM #77 - BANQUET SEATING  
1/2" = 1'-0"

8 ITEM #74D - MILLWORK SOFFIT DETAIL  
1/2" = 1'-0"

9 ITEM #AG - WALL MURAL SECTION DETAIL  
1/2" = 1'-0"

8 ITEM #74D - MILLWORK SOFFIT DETAIL  
1/2" = 1'-0"

13 ITEM #73 - HALF-HGT WALL  
1" = 1'-0"

10 ITEM #49 - COUNTER SECTION  
1/2" = 1'-0"

11 ITEM #49 - CASHIER COUNTER SECTION  
1/2" = 1'-0"

12 ITEM #49 - CASHIER COUNTER SECTION  
1/2" = 1'-0"

NOTE: A 36" SECTION OF THE BAR COUNTER IS REQUIRED TO BE  
34" MAX HT- SEE A2.0



General Conditions									
1. CONTRACTOR									
a. The Contractor shall be lawfully licensed. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract.									
b. The Contractor shall perform the Work in accordance with the Contract Documents.									
c. Execution of the Contract by the Contractor is a representation that the Contractor has carefully examined the Contract Documents, has visited the site, become thoroughly familiar with the nature and location of the Work, the conditions of the site as they exist, and the character of the operations to be carried out under the Contract Documents, including all existing site conditions, access to the site, physical characteristics of the site and surrounding areas, and all matters that affect the Work, or its performance. Because of such examinations and investigations, the Contractor further represents that he thoroughly understands the Contract Documents. The Contractor further represents that he will abide by all applicable codes, ordinances, laws, regulations, and rules as they apply to the Work. Claims for additional time or additional compensation because of the Contractor's failure to familiarize himself with all local conditions and the Contract Documents will not be permitted.									
d. Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Owner any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.									
e. The accuracy of grades, elevations, dimensions, or locations of existing conditions is not guaranteed by the Architect or the Owner. The Contractor is responsible for verifying same. If the Contractor performs construction activity when the Contractor knows, or should know in exercise in reasonable diligence, that an activity involves an error, inconsistency, or omission in the Contract Documents, the Contractor shall assume appropriate responsibility for such performance and shall bear an appropriate amount of the costs attributable for correction.									
f. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Owner any nonconformity discovered by or made known to the Contractor.									
g. The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.									
h. The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors, and for any damages, losses, costs, and expenses resulting from such acts or omissions.									
i. Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated to be incorporated in the Work.									
j. Except in the case of minor changes in the Work, the Contractor may make substitutions only with the consent of the Owner, after evaluation and in accordance with a Change Order or Construction Change Directive.									
k. The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.									
l. The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements will be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Owner, the Contractor shall furnish satisfactory evidence as to the condition and quality of materials and equipment. The Contractor shall assign to the Owner all warranties and guarantees of manufacturers, Subcontractors, and others related to the Work.									
m. The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect. The Contractor shall cooperate with the Owner to reduce state taxes on the Project. If requested by the Owner, the Contractor shall assist the Owner in the preparation of purchase orders, processing of invoices and payments in order to direct purchase material to be furnished to the Contractor. All state tax savings shall be returned to the Owner.									
n. The Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded. The Contractor shall secure and pay for the building, mechanical, electrical and plumbing permits, engineering and inspection charges required by any governmental authority or other person or entity having jurisdiction over the work. Said permits shall include, without limitation, both temporary and permanent permits, building permits, certificates of occupancy, curb-breaking permits, highway entrance permits, water permits and all similar permits and certificates. The Owner shall be responsible for all capacity charges and impact fees									
o. The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work. If the Contractor fails to give such notices, it shall be liable for and shall indemnify and hold harmless the Owner and their respective employees, officers and agents, against any resulting fines, penalties, judgments or damages, imposed on or incurred by the parties indemnified hereunder.									
p. If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs, damages, losses, and expenses attributable to correction.									
q. 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 as if given to the Contractor.									
2. USE OF SITE									
The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment. The Contractor acknowledges the ongoing operations of the Owner and agrees to coordinate the Work with the Owner and conduct the Work in a manner which minimizes or eliminates any adverse impact on the Owner.									
3. CUTTING AND PATCHING									
The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.									
4. CLEANING UP									
a. 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 waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project. If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.									
b. If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable.									
13. CORRECTION OF WORK									
a. The Contractor shall promptly correct Work rejected by the Owner or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, the cost of uncovering and replacement, and compensation shall be at the Contractor's expense. If, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor, at the Contractor's expense, shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition.									
b. If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable.									
1. CONTRACTOR									
a. The Contractor shall be lawfully licensed. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract.									
b. The Contractor shall perform the Work in accordance with the Contract Documents.									
c. Execution of the Contract by the Contractor is a representation that the Contractor has carefully examined the Contract Documents, has visited the site, become thoroughly familiar with the nature and location of the Work, the conditions of the site as they exist, and the character of the operations to be carried out under the Contract Documents, including all existing site conditions, access to the site, physical characteristics of the site and surrounding areas, and all matters that affect the Work, or its performance. Because of such examinations and investigations, the Contractor further represents that he thoroughly understands the Contract Documents. The Contractor further represents that he will abide by all applicable codes, ordinances, laws, regulations, and rules as they apply to the Work. Claims for additional time or additional compensation because of the Contractor's failure to familiarize himself with all local conditions and the Contract Documents will not be permitted.									
d. Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Owner any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.									
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b. If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable.									
13. CORRECTION OF WORK									
a. The Contractor shall promptly correct Work rejected by the Owner or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, the cost of uncovering and replacement, and compensation shall be at the Contractor's expense. If, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor, at the Contractor's expense, shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition.									
b. If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable.									
1. CONTRACTOR									
a. The Contractor shall be lawfully licensed. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract.									
b. The Contractor shall perform the Work in accordance with the Contract Documents.									
c. Execution of the Contract by the Contractor is a representation that the Contractor has carefully examined the Contract Documents, has visited the site, become thoroughly familiar with the nature and location of the Work, the conditions of the site as they exist, and the character of the operations to be carried out under the Contract Documents, including all existing site conditions, access to the site, physical characteristics of the site and surrounding areas, and all matters that affect the Work, or its performance. Because of such examinations and investigations, the Contractor further represents that he thoroughly understands the Contract Documents. The Contractor further represents that he will abide by all applicable codes, ordinances, laws, regulations, and rules as they apply to the Work. Claims for additional time or additional compensation because of the Contractor's failure to familiarize himself with all local conditions and the Contract Documents will not be permitted.									
d. Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Owner any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.									
e. The accuracy of grades, elevations, dimensions, or locations of existing conditions is not guaranteed by the Architect or the Owner. The Contractor is responsible for verifying same. If the Contractor performs construction activity when the Contractor knows, or should know in exercise in reasonable diligence, that an activity involves an error, inconsistency, or omission in the Contract Documents, the Contractor shall assume appropriate responsibility for such performance and shall bear an appropriate amount of the costs attributable for correction.									
f. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Owner any nonconformity discovered by or made known to the Contractor.									
g. The Contractor shall supervise and direct the Work									



SECTION 09510 ACOUSTICAL CEILINGS		FIRE PROTECTION SPECIALTIES	
<b>PART 1</b>	<b>GENERAL</b>	<b>A.</b>	Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
<b>1.1</b>	<b>QUALITY ASSURANCE</b>	<b>B.</b>	Standards: UL and FM listed products, NFPA 10.
<b>A.</b>	Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.	<b>C.</b>	Regulations: ADAAAG.
<b>B.</b>	Performance: Fire, structural, and seismic performance meeting requirements of building code and local authorities. Acoustical performance based on project requirements.	<b>PART 2</b>	<b>PRODUCTS</b>
<b>PART 2</b>	<b>PRODUCTS</b>	<b>2.1</b>	<b>MATERIALS</b>
<b>2.1</b>	<b>MATERIALS</b>	<b>A.</b>	Fire Extinguishers:
<b>A.</b>	Mineral Fiber Acoustical Ceilings: see finish schedule on architectural plans.	<b>1.</b>	Type: Multipurpose dry chemical type.
<b>1.</b>	Panel Size: 24 by 24 inches.	<b>PART 3</b>	<b>EXECUTION</b>
<b>2.</b>	Panel Size: 24 by 48 inches.	<b>3.1</b>	<b>INSTALLATION</b>
<b>3.</b>	Panel Edge: Square.	<b>A.</b>	Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
<b>4.</b>	Suspension System: Intermediate duty.	<b>B.</b>	Install fire extinguishers in mechanical and service areas with wall-hung brackets at locations and heights indicated and acceptable to authorities having jurisdiction.
<b>5.</b>	Auxiliary Materials:	<b>C.</b>	Install fire extinguishers in cabinets in public areas plumb and level at heights acceptable to authorities having jurisdiction.
<b>a.</b>	Edge molding and trim.	<b>D.</b>	Restore damaged finishes. Clean and protect work from damage.
<b>b.</b>	Hold-down clips and impact clips.		
<b>c.</b>	Concealed acoustical sealant.		

PART 3 EXECUTION		SECTION 10800 TOILET ACCESSORIES	
<p><b>3.1 INSTALLATION</b></p> <p>A. Install materials and suspension systems in accordance with manufacturer's instructions and recommendations, and ASTM C 636. Coordinate installation with location of mechanical and electrical work to ensure proper locations and anchorage.</p> <p>B. Level ceiling to within 1/8 inch (3 mm) in 10 ft in both directions. Scribe and cut panels to fit accurately. Measure and layout to avoid less than half panel units.</p> <p>C. Removal and reinstallation at existing ceilings: Remove and store materials for reuse when allowed. Handle with white gloves and avoid damaging corners and edges. Clean tiles and grid system, which have been removed. Provide additional materials to complete the work and to replace damaged existing materials. New materials shall match existing materials as approved.</p> <p>D. Ceiling areas shall be measured to establish layout of acoustical units to balance board widths at opposite edges of each ceiling. Avoid use of less-than-half width units at borders.</p> <p>E. Grid layout shall be symmetrical laid out in each space. Coordinate work with other trades so that lighting fixtures, grilles and other ceiling fixtures work with grid layout.</p> <p>F. Support for suspension system shall be from structure above, not from ductwork, metal deck, equipment or piping.</p> <p>G. Wall moldings shall be installed at the perimeter of each acoustical ceiling area and at locations where edge of units would otherwise be exposed.</p> <p>H. Field cut acoustical panels as required, in accordance with manufacturers recommended procedures and equipment.</p> <p>I. Adjust, clean, and touch-up all system components.</p>		<p><b>PART 1 GENERAL</b></p> <p>1. <b>QUALITY ASSURANCE</b></p> <p>A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.</p> <p><b>PART 2 MATERIALS</b></p> <p>A. Toilet and Bath Accessories:</p> <ol style="list-style-type: none"> <li>1. Accessory: Paper towel dispensers.</li> <li>2. Accessory: Toilet tissue dispensers, single roll.</li> <li>3. Accessory: Waste receptacles.</li> <li>4. Accessory: Grab bars.</li> <li>5. Accessory: Wall Mirror</li> <li>6. Accessory: Soap dispensers, wall mounted.</li> <li>7. Accessory: Mats and brush holders.</li> </ol> <p>B. <b>ACCEPTABLE MANUFACTURERS</b></p> <p>1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering</p>	

	SECTION 0910 PAINTS	b. Bobrick Washroom Equip., Inc. c. Bradley Corporation. d. McKinney/Parker.
PART 1	GENERAL	C.
1.1 QUALITY ASSURANCE		A. MATERIALS: 1. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gage minimum, unless otherwise indicated. 2. Brass: leaded and unleaded, flat products ASTM B18/B30; rods, shapes, forgings, and flat products with finished edges; AISI B6; castings; ASTM A813; 3. Sheet Steel: Cold-rolled commercial quality ASTM A36, 20-gage minimum, unless otherwise indicated. Preparation and metal pretreatments as required for applied finish. 4. Galvanized Steel Sheet: ASTM A252, G60. 5. Chromium Plating: Nickel and chromium electroplated on base metal, ASTM B456, Type 2. 6. Baked Enamel Finish: Factory-applied, gloss white, baked acrylic enamel coating. 7. Mirror Glass: ASTM D 1036, Type I, Quality QZ, 3/4" thick, black, alkali-resistant, with silvering, electro-plated copper coating, and protective organic coating. 8. Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized steel, fabricated after fabrication. 9. Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized
A.	Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.	
B.	Regulations: Compliance with VOC and environmental regulations.	
PART 2	PRODUCTS	
2.1 MATERIALS		
A. Painting:		
1.	Manufacturers: Sherwin-Williams, ProMar 200	
2.	Application: Interior unfinished surfaces.	
3.	Primary Painting: Type I, Quality QZ, 3/4" thick, black, alkali-resistant, with silvering, electro-plated copper coating, and protective organic coating.	
4.	Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized steel, fabricated after fabrication.	
5.	Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized	

PART	EXECUTION	
PART 3	INSTALLATION	<p>steel where concealed.</p> <p><b>SANITARY NAPW/DISPOSALS.</b></p> <p>D. 1. Surface mounted satin stainless steel, with self-closing door and tumblers lock retention of the receptacle.</p> <p>a. Provide Disposable Liners: (300x313x22 minimum quantity of twelve per each unit.</p>
		<p><b>TOILET TISSUE DISPENSER:</b></p> <p>D. 1. Surface mounted double roll toilet tissue holder of satin finish stainless steel, 1/8 inch wall thickness, at each water closet.</p>
		<p>2. 06 GRAB BARS:</p>
		<p>1. 304 Stainless Steel Type 304 satin finishes with wall thickness not less than 18 gage and as follows:</p>
		<p>A. Mounting: Dispenser's standard 1/8" satin finish flanges and valand resistant anchorages.</p>
		<p>B. Clearance: 1-1/2" clearance between wall surface and inside of bar.</p>
		<p>C. Gripping Surfaces: Smooth, satin finish</p>
		<p>D. Medium-Duty Size (6" x 1-1/4"</p>
		<p>E. Lengths and shapes as indicated on the drawings, capable of supporting 250 lb. concentrated load in any direction, per ASTM F446.</p>
		<p><b>LIQUID SOAP DISPENSER: (pubic)</b></p>
		<p>1. Type-304, satin finish stainless steel, 40 l. oz. capacity. Concealed wall fastening shall be val-resistant with unbreakable 1/8" of force.</p>
		<p>2. Valve operates with less than 5 lbs. of force.</p>
		<p><b>WALL MIRRORS:</b></p>
		<p>1. Stainless Steel Channel Frame Mirror: One piece type 304 channel frame 3/4 inch x 3/4 inch, Satin finish with mirrored corners, welded, ground and polished smooth.</p>
		<p>2. Float/plated mirror, 1/4 inch thick, plated, mirror.</p>
		<p>3. Mounting: install on concealed wall hanger and lock in place with theft-resistant screws.</p>
		<p>4. Size as indicated.</p>
		<p><b>PAPER TOWEL DISPENSER:</b></p>
		<p>1. Surface-Mounted Towel Dispensers: Fabricate of stainless steel with hinged front equipped with tumblers lock. Provide pre-drilled slots as side as refill indicators.</p>
		<p>2. Size: Not less than either 300 x 40 or 400 x 400 millimeter paper towels without special adapters.</p>
		<p>3. Surface mount stainless steel. Satin finish S.S. with brackets.</p>

<p>tar, pitch, oil, tarring compounds, and other substances which could impair coating performance or appearance.</p> <p>2. Existing Coatings:</p> <p>a. Remove surface irregularities by scraping or sanding to produce uniform substrate for coating application; apply one coat primer of type recommended by coating manufacturer for maximum coating adhesion.</p> <p>b. If presence of lead in existing coatings is suspected, cease surface preparation and notify Architect immediately.</p> <p>c. Gypsum Board: Repair cracks, holes and other surface defects with joint compound to produce surface flush with adjacent surfaces.</p> <p>d. Masonry Surfaces - Restored: Remove loose particles, sand, efflorescence, cleaning compounds and other substances that could impair paint coating performance or appearance.</p> <p>e. Metals - Aluminum, Mill-Finish: Clean and etch surfaces with a phosphoric acid water solution or water based industrial cleaner. Flush with clean water and allow to dry, before applying primer coat.</p> <p>f. Metals - Copper: Clean surfaces with pressurized steam, pressurized water, or solvent washing.</p> <p>g. Metals - Ferrous: Remove rust or scale, if present, by wire brush cleaning, power tool cleaning, sandblast cleaning; remove grease, oil, and other contaminants which could impair coating performance or appearance by solvent cleaning; remove surface contaminants which could impair coating of welds, joints and nuts; spot-prime repaired welds with specified primer.</p>	<p><b>PART 3 EXECUTION</b></p> <p><b>3.1 INSTALLATION</b></p> <p>A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with other construction. Coordinate with work of other sections.</p> <p>B. Restore damaged finishes and test for proper operation. Clean and protect work from damage.</p> <p style="text-align: center;"><b>SECTION 15100 PLUMBING</b></p> <p><b>PART 1 GENERAL</b></p> <p><b>1.1 SUMMARY</b></p> <p>A. Work shall include but not be limited to the following: Provide all labor, materials, services, equipment and appliances required for the fabrication and installation of the plumbing system, as indicated on the design drawings and as outlined in these specifications.</p> <p>B. Equipment and design of systems indicated on the design drawings, and within these specifications shall be considered as "specified standard" quality. Substitutions shall be equal quality.</p>
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	<p><b>APPLICATION - GENERAL</b></p> <p>1. Apply each coat to uniform coating thickness in accordance with manufacturer's instructions, not exceeding manufacturer's specified maximum spread rate for indicated surface; coats, brush marks, roller marks, orange-peel, or other application imperfections are not permitted.</p> <p>2. Allow manufacturer's specified drying time, and ensure correct coating adhesion, for each coat before applying next coat.</p> <p>3. Inspect each coat before applying next coat; touch-up surface imperfections with coating materials (troweling, and sanding if required); touch-up areas to achieve flat, uniform surface without surface defects visible from 5 feet (15 m).</p> <p>4. Remove dust and other foreign materials from substrate immediately prior to applying each coat.</p>	<p>C. The entire system and all components listed herein shall meet all state, county and local codes and ordinances in every respect. The contractor shall obtain all required permits, inspections and pay all fees.</p>
same	<p>5. Where paint application abuts other materials or other coating color, terminate coating with a clean sharp termination line without coating overlap.</p> <p>6. Where color changes occur at adjoining spaces, through framed openings that are of color as adjoining surfaces, change color at outside stop corner nearest to face of closed door.</p> <p>7. Repaint areas and re-coat unsatisfactory finishes; refresh entire area to corners or other natural terminations.</p>	<p>D. All equipment, etc., shall be new unless otherwise noted, and as specified free of defects as shown on the drawings and as indicated in these specifications. All electrical powered equipment shall be U.L. or E.T. Listed.</p>
H.	<p><b>CLEANING</b></p> <p>1. Clean excess coating materials, and coating materials deposited on surfaces not indicated to receive coats, as construction activities of this section progress; do not allow to dry.</p> <p>2. Re-install hardware, electrical equipment plates, mechanical grilles and covers, lighting fixture trim, and other items that have been removed to protect from contact with coatings.</p> <p>3. Reconnect equipment adjacent to surfaces indicated to receive coatings.</p> <p>4. Relocate to original position equipment and fixtures that have been moved to allow the applications shown on the drawings and specifications.</p> <p>5. Remove protective materials.</p>	<p>E. All materials shall be fabricated and installed in a neat and professional manner with the coordination of all involved trades to avoid interferences and delay due to lack of coordination. No allowances will be made for rework due to coordination difficulties or interferences between insured trades.</p> <p>F. Obtain all permits and inspections required by law for the completions of the work. Cost of the required permits and inspections shall be paid by the contractor. The Contractor shall obtain and pay for all Certificates of Approval, which must be obtained prior to final acceptance of the job. All materials and labor furnished by the Contractor shall be in strict accordance with the rules and regulations of the state and municipality, utility companies, Florida Building Code Plumbing- 2004, National Electrical Code (NEC) and the National Fire Protection Association (NFPA).</p>
of		<p><b>QUALITY ASSURANCE</b></p> <p>A. Materials and Workmanship:</p> <p>a. Products and materials shall meet or exceed the quality or requirements specified or shown on the drawings.</p> <p>b. Provide products and materials, which the manufacturer has certified as appropriate to the applications shown on the drawings and specifications.</p> <p>c. Provide subproducts and materials, which are supported by convenient, nerts availability and service.</p>

d. Workmanship shall be in all respects of the highest quality and all construction shall be done according to the best practice of the trade. All systems shall be made complete and operational in first class working order. Furnish all necessary labor and materials to construct a complete system.

<p align="center"><b>FIRE PROTECTION SPECIALTIES</b></p> <p>A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.</p> <p>B. Standards: UL and FM listed products, NFPA 10.</p> <p>C. Regulations: ADAG.</p>		<p>B. Provide the owner with the following prior to final acceptance:</p> <p>a.Parts list for each piece of equipment.</p> <p>b.One bound set of approved shop drawings.</p> <p>c.One bound set of operating instructions and maintenance schedules for each piece of equipment.</p> <p>d.Copies of all warranties for each piece of equipment.</p>	
<p><b>PART 2 PRODUCTS</b></p> <p>2.1 MATERIALS</p> <p>A. Fire Extinguishers:</p> <p>1. Type: Multipurpose dry chemical type.</p>		<p>C. Guarantees and Warranties:</p> <p>a.Guarantee all labor and material furnished for a period of one year extending from the time of final acceptance of the building. The guarantee shall cover the repair or replacement without additional cost to the owner for any defective material or faulty workmanship.</p> <p>b.Provide warranties for each piece of major equipment. Warranties shall be included with the owner's final documents.</p>	
<p><b>PART 3 EXECUTION</b></p> <p>3.1 INSTALLATION</p> <p>A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.</p> <p>B. Install fire extinguishers in mechanical and service areas with wall-hung brackets at locations and heights indicated and acceptable to authorities having jurisdiction.</p> <p>C. Install fire extinguishers in cabinets in public areas plumb and level at heights acceptable to authorities having jurisdiction.</p> <p>D. Restore damaged finishes. Clean and protect work from damage.</p>		<p><b>PART 2 PRODUCTS</b></p> <p>2.1 MATERIALS</p> <p>A. Access Panel:</p> <p>a.Contractor shall provide hinged access doors (min. 12"x12") for valves, etc. where floors, walls and ceiling must be penetrated to access mechanical systems. Finish shall be coordinated through the architect to match surrounding finishes.</p> <p>B. Cleaning, Testing and Adjusting:</p>	

		SECTION 10800 TOILET ACCESSORIES	<p>The A contractor, at its expense, shall clean, repair, adjust, check, A balance, and place in service the various systems herein specified with their respective equipment, accessories and piping. The contractor shall furnish all labor, materials, equipment, and tools required to perform tests required by these specifications and by the governing authorities.</p> <p>B no work shall be covered or concealed until properly inspected B and tested.</p> <p>C All domestic water piping systems shall be tested for absolute C tightness by subjecting the system to a hydrostatic pressure of 150 PSI gauge or 50 PSI over working pressure, whichever is greater for a period of not less than eight (8) hours. All leaks shall be repaired and the hydrostatic test reapplied until, for an eight (8) hour period, no leaks can be found while the system is subject to the test pressure. Soil pipe and condensate drains shall be tested by temporarily plugging all outlets and filling the system with water to the level of the highest vent stack. The system must be inspected and all leaks repaired and the test repeated until the water level does not decrease for a period of 24 hours.</p> <p>D Hangers and Supports:</p> <p>E Provide all necessary pipe supports, hangers, rods, clamps and attachments to properly install and support piping and equipment from the building structure.</p> <p>F Provide any angle iron or unstirred and suspension rods required to install equipment and piping.</p> <p>G Water Supply Systems:</p> <p>H Extend water supply as indicated on design drawings. Provide shock absorbers and vacuum breakers where required.</p> <p>I Pipe and fittings:</p> <p>J Above ground - Schedule 40 CPVC.</p> <p>K Below ground - Schedule 80 CPVC.</p> <p>L Chlorination: Before being placed in service all water distribution. Systems shall be sterilized with chlorine in accordance with FPG 610.1 standard procedure for disinfecting potable water piping.</p> <p>M Insulation: Insulate all hot water lines with "1" of insulation having a conductivity not exceeding 0.07 BTU per inch.</p>
PART 1	GENERAL		
1.	QUALITY ASSURANCE		
A.	Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.		
PART 2	PRODUCTS		
2.	MATERIALS		
A.	Toilet and Bath Accessories:		
	1. Accessory: Paper towel dispensers.		
	2. Accessory: Toilet tissue dispensers, single roll.		
	3. Accessory: Waste receptacles.		
	4. Accessory: Grab bars.		
	5. Accessory: Wall Mirror		
	6. Accessory: Soap dispensers, wall mounted.		
	7. Accessory: Mop and broom holders.		
B.	ACCEPTABLE MANUFACTURERS:		
	1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering toilet accessories that may be incorporated in the Work include, but are not limited to the following:		
	a. A. S. I. Washroom Accessories.		
	b. Bradkor Washroom Equip., Inc.		
	c. Bradley Corporation.		
	d. McKinney/Parker.		
C.	MATERIALS, GENERAL:		
	1. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gauge minimum, unless otherwise		

A.	Indicated.	
	1. Castings and unalloyed, flat products, ASTM A 819; Rods, shapes, forgings, and flat products with finished edges, ASTM B16; castings, ASTM B 30	A rough-in and connect water, waste, and vent to complete the installation of equipment listed on the drawings.
B.	3. Sheet Steel: Cold-rolled, commercial quality ASTM A 366, 20-gage minimum, unless otherwise indicated. Preparation and metal pretreatment as required for applied finish.	B. Plumbing fixtures shall be provided complete as shown on the drawings with all required supply, waste, soil, and vent connections, together with all fittings, supports, fastening devices, cocks, valves, and traps.
	4. Galvanized Sheet Steel: ASTM A 527, 660.	C. All fixtures shall have stop valves on all water connections. All exposed metal trim on all fixtures shall be polished chromium plated. All exposed pipes extending from wall shall have chromium plated brass excutcheon mounted against wall. Exposed PVC piping and g-p-traps are unacceptable.
C.	5. Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B456, Type 6; baked Kamefil Finish: Factory-applied, gloss white, baked acrylic enamel coating.	D. The plumbing fixtures shall be "rough-in" accordance with manufacturer's "rough-in" information." Provisions for mounting wall fixtures shall be made while the wall is being built.
	7. Mirror Glass: ASTM C 1036, Type 1, Quality #2, 1/4" thick, (0.23-inch), with silvering.	F. Drainage System: A. Pipe Slope: I. 1/2" x 1/2 inch diameter and less shall be installed with a fall of not less than 1/8 inch per foot. II. 3 inch diameter or larger shall be installed with a fall not less than 1/8 inch per foot.
D.	8. Electro-plated copper coating and protective organic coating.	G. Pipe and Fittings: A. Drain, waste and vent piping for this project shall be schedule 40 PVC type DWV.
	8. Galvanized Sheet Mounting Devices: ASTM A 153, hot dip galvanized after fabrication.	B. Provide cleanouts every 75 feet, at changes in direction, at base of down spouts and at base of soil and waste stacks.
E.	9. Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized sheet hardware where concealed.	
	SANITARY NAPKIN DISPOSALS:	
F.	1. Surface mounted satin stainless steel, with self-closing door and tumblers lock retention of the receptacle.	
	A. Provide Disposable Liners, (Bobrick 355-12) minimum quantity of twelve per each unit.	
G.	TOILET DISPENSER:	
	1. Surface mounted double roll toilet tissue holder of satin finish stainless steel, 1/8 inch wall thickness, at each water closet.	
H.	2.06 GRAB BARS:	

<p>3.1.1. <b>STAINLESS STEEL TYPE 304</b> with finishes wall and ceiling thickness not less than 18 gauges and 19 gauges:  a. Mountings: Exposed, manufacturer's standard 1/8 inch thick flanges and vandal resistant</p>		<p><b>PART 3 EXECUTION</b></p>
<p>b. Clearance: 1-1/2" clearance between wall surface and inside face of bar.</p> <p>c. Gripping Surfaces: Smooth, satin finish.</p> <p>d. Medium-Duty Type: Outside diameter of 1-1/4"</p> <p>e. Lengths and shapes as indicated on the drawings, capable of supporting 250 lb. concentrated load in any direction, per ASTM F446.</p>		<p><b>3.1 INSTALLATION</b></p>
<p><b>G. LIQUID SOAP DISPENSER: (public)</b></p> <p>1. TYPE 304, satin finish stainless steel, 40 lb. oz. capacity. Concealed wall fastening shall be vandal resistant with non-scratch finish windows.</p> <p>2. Valve operates with less than 5 lbs. of force.</p>		<p>A. All locations of equipment, piping, etc. indicated on the drawings are diagrammatic and shall be followed as closely as possible to the plans, subject to building construction and interference with other trades. All work shall be installed to ensure maximum headroom, balanced operation and suitable aesthetical appearance. Contractor is responsible for any field measurements required to provide an approved and functional installation.</p>
<p><b>H. WALL MIRRORS:</b></p> <p>1. Stainless Steel Channel Frame Mirror: One piece type 304 channel frame 3/4 inch x 3/4 inch, Satin finish with interced corners, welded, ground and polished smooth.</p> <p>2. Float glass: glass mirror, 1/4 inch thick, polished edges, as ref. indicated.</p> <p>3. Mounting: Install on concealed wall hanger and lock in place with theft-resistant screws.</p> <p>4. Sizes as indicated.</p>		<p>B. Not all components required for a complete installation are shown on these drawings. Refer to equipment installation instructions, schedules, and applicable codes for additional information, including required connection locations, types and sizes.</p>
<p><b>I. PAPER TOWEL DISPENSER:</b></p> <p>1. Surface-Mounted Towel Dispensers: Fabricate of stainless steel with hinged front equipped with tumblers lockset. Provide pierced slots as sizes as ref. indicated.</p> <p>2. Capacity: Not less than either 300 or 400 multifold paper towels without special adaptors.</p> <p>3. Surface mount stainless steel: Satin finish 5.5. with brackets.</p>		<p>C. Provide isolation valves and unions at all equipment and as indicated on drawings.</p> <p>D. Contractor shall be responsible for furnishing and installing adequate and proper insulation and moisture-seal in a manner that will permanently prevent the accumulation of any objectionable moisture on the exterior of condensate drain piping, or other parts of the system. The contractor shall correct the cause of any condensation and fully repair, without cost the owner, any damages to building surfaces, furnishings or equipment caused by condensation from this system, for the full period of the guarantee.</p>
		<p>E. Perform all work necessary to prepare the structure for the installation of the work.</p>
		<p>F. All holes, openings and damaged materials created during construction shall be repaired and finished by experienced workmen. Provide all roof, wall and floor penetrations required to</p>

PART 3	EXECUTION	complete installation or work (maintain fire rating of existing structure). All penetrations shall be patched and finished to match surrounding surfaces and finishes. All equipment or pipe penetrations through wall, roof and floors shall be sleeved and sealed so as to be water and air tight.
3.1 INSTALLATION	A.	Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
B.		Restore damaged finishes and test for proper operation. Clean and protect work from damage.
		SECTION 15000

SECTION 15100 PLUMBING		PART 1 GENERAL	
1.1	SUMMARY	1.1	SUMMARY
A. Work shall include but not be limited to the following: Provide all labor, materials, services, equipment and appliances required for the fabrication and installation of the plumbing system, including on the design drawings, and as outlined in these specifications.		A. Materials and workmanship	
B. Equipment and design of systems indicated on the design drawings and within these specifications shall be considered as "specified standard" quality. Substitutions shall be equal quality.		1. Products and materials shall meet or exceed the quality or requirements specified or shown on the drawings.	
C. The entire system and all components listed herein shall meet all state, county and local codes and ordinances in every respect. The contractor shall obtain all required permits, inspections and pay all fees.		2. Provide products and materials, which the manufacturer has certified as appropriate to the application shown on the drawings and specifications.	
D. All equipment, etc., shall be new unless otherwise noted, and as specified free of defects as shown on the drawings and as indicated in these specifications. All electrical powered equipment shall be U.L. or E.T.L. Listed.		3. Provide products and materials, which are supported by convenient, parts availability and servicing.	
E. All materials shall be fabricated and installed in a neat and professional manner with the coordination of all involved trades to avoid interference and delay due to lack of coordination. No rework will be made for rework due to coordination difficulties or interferences between involved trades.		4. Workmanship shall be in all aspects of the highest quality and all construction shall be done according to the best practice of the Trade. All systems shall be made complete and operational in first class working order. Furnish all necessary labor and materials to construct a complete system.	
F. Obtain all permits and inspections required by law for the completion of the work. The cost of the required permits and inspections shall be paid by the contractor. The contractor shall obtain and pay for all certificates of approval, which must be obtained prior to final acceptance of the job.		5. The HVAC contractor shall coordinate all electrical, A/C, and plumbing requirements with those subcontractors.	
G. All materials and labor furnished by the contractor shall be in strict accordance with the rules and regulations of the state and municipality, utility companies, building code - 2001, National electric code (NEC) and the national fire protection association (NFPA).		6. Obtain all permits and inspections required by law for the completion of the work. The cost of the required permits and inspections shall be paid by the contractor. The contractor shall obtain and pay for all certificates of approval, which must be obtained prior to final acceptance of the job.	
H. All materials and labor furnished by the Contractor shall be in strict accordance with the rules and regulations of the state and municipality, utility companies, Building Code Plumbing - 2004, National Electric Code (NEC) and the National Fire Protection Association (NFPA).		7. Provide all labor, materials, services, equipment, and appliances required for the fabrication and installation of mechanical systems including heating, air-conditioning, and various systems as indicated on the design drawings and as outlined in these specifications.	
		8. Equipment and design of systems indicated on the design drawings and within these specifications shall be considered as "specified standard" quality. Substitutions shall be of equal quality.	
		9. The entire system and all components listed herein shall meet all state, county, and local codes and	

1.2	QUALITY ASSURANCE		
	A. Materials and Workmanship:		
	a.Products and materials shall meet or exceed the quality or requirements specified or shown on the drawings.		
	b.Provide products and materials, which the manufacturer has certified as appropriate to the applications shown on the drawings and specifications.		
	c.Provide products and materials, which are supported by convenient, parts availability and servicing.		
	d.Workmanship shall be in all respects of the highest quality and all construction shall be done according to the best practice of the trade. All systems shall be made complete and operational in first class working order. Furnish all necessary labor and materials to construct a complete system.		
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<p><b>B. Provide the owner with the following prior to final acceptance:</b></p> <p>a.Parts list for each piece of equipment.</p> <p>b.One bound set of approved shop drawings.</p> <p>c. One bound set of operating instructions and maintenance schedules for each piece of equipment.</p> <p>d.Copies of all warranties for each piece of equipment.</p> <p>C. Guarantees and Warranties:</p> <p>a.Guarantee all labor and material furnished for a period of one year extending from the time of final acceptance of the building. The guarantee shall cover the repair or replacement without additional cost to the owner for any defective material or faulty workmanship.</p> <p>b.Provide warranties for each piece of major equipment. Warranties shall be included with the owner's final documents.</p>	<p><b>1.2 QUALITY ASSURANCE</b></p> <p>A. Provide to the owner with the following prior to final acceptance</p> <p>1. Parts list for each piece of equipment.</p> <p>2. One bound set of approved shop drawings.</p> <p>3. One bound set of operating instructions and maintenance schedules for each piece of equipment.</p> <p>4. Copies of all warranties for each piece of equipment.</p> <p>B. Guarantees and Warranties</p> <p>1. Guarantee all labor and material furnished for a period of one year extending from the time of final acceptance of the building. The guarantee shall cover the repair or replacement without additional cost to the owner for any defective material or faulty workmanship.</p> <p>2. Provide warranties for each piece of major equipment. Warranties shall be included with the owner's final documents.</p> <p>C. Training Services</p> <p>1. Thoroughly instruct the owner's personnel during normal working hours on start-up and shut-down procedures, troubleshooting procedures, servicing and preventative maintenance schedules and procedures. Review with the owner's personnel the data contained in the operating and maintenance manuals. Schedule the training with the owner. Provide at least 7-days prior notice to architect/engineer.</p> <p>D. System Identification</p> <p>1. Provide identification labels on or near each piece of major equipment and each operational device and disconnect. The labels shall be constructed of engraved plastic laminate sign or plastic equipment marker permanently secured to equipment. The lettering shall be a minimum of 1/2 inch high for equipment name and 3/8 inch for equipment information.</p>
<p><b>PART 2 PRODUCTS</b></p> <p><b>2.1 MATERIALS</b></p> <p>A. Access Panel:</p> <p>1. <u>Contractor</u> provide hinged access doors (min. 12"x24") for valves, etc. where floors, walls and ceiling must be penetrated to access mechanical systems. Finish shall be coordinated through the architect to match surrounding finishes.</p> <p>B. Cleanin. Testine and Adjustin:</p>	<p><b>2.1 MATERIALS</b></p>

The Contractor, at his expense, shall clean, repair, adjust, check, A. balance, and place in service the various systems herein specified with their respective equipment, accessories and piping. The Contractor shall be responsible for all labor, materials, equipment, and tools required to perform tests required by these specifications and by the governing authority.

b. No work shall be covered or concealed until properly inspected & B. tested.

c. All domestic water piping systems shall be tested for absolute C. tightness by subjecting the system to a hydrostatic pressure of 150 PSI gage or 50 PSI over working pressure, whichever is greater for a period of not less than eight (8) hours. This test shall be required and the hydrostatic test required until, for an eight (8) hour period, no leaks can be found while the system is subject to the test pressure. Soil pipe and condensate drains shall be tested by temporarily plugging all outlets and filling the piping to the level of the system. All leaks must be inspected and repaired with the piping and the test repeated until the water level does not decrease for a period of 24 hours.

C. Hangers and Supports:

a. Provide all necessary, pipe supports, hangers, rods, clamps and attachments to properly install and support piping and equipment from the building structure.

b. Provide any angle iron or strut and suspension rods required to install equipment and piping.

D. Water Supply Systems:

a. Extend water service as indicated on design drawings. Provide shock absorbers and vacuum breakers where required.

b. Pipe and fittings:

I. Above ground - Schedule 40 CPVC.

II. Below ground - Schedule 80 CPVC.

c. Chlorination: Before being placed in service all water distribution. Systems shall be sterilized with commercial grade sodium hypochlorite solution for disinfecting potable water piping.

d. Insulation: Insulate all hot water lines with 1" of insulation having a conductivity not exceeding 0.07 BTU per inch.

A. Hangers and Supports

1. Provide all necessary ductwork, pipe supports, hanger rods, clamps and attachments to properly support ductwork, piping and equipment from the building structure. Provide any angle iron or strut and suspension rods required to install equipment, piping and ductwork

2. All supports exposed to outdoors shall be cleaned, primed and painted to prevent rusting. Finish color to be selected by the owner.

3. The use of building wire or perforated metal strapping is not acceptable for supports.

B. Air-Conditioning Equipment (If any new equipment is shown)

1. Units shall be installed in accordance with the manufacturer's drawings. Units with integral electrical resistance heaters shall have a single-point electrical connection. Total cooling capacity of the units shall be as scheduled on drawings. Unit cabinets shall be constructed of galvanized steel, and shall be painted to match the building exterior. Units shall comply with any energy code.

2. The units shall contain hermetic compressors with service valves and vibration isolation. Units shall have dual compressors and dual refrigeration circuits or capacity reduction steps where indicated on equipment schedule.

3. The indoor air fans shall be of the forward-curved centrifugal class 1 type. The outdoor fans shall be of the propeller type, each directly driven by an inherently protected motor. Motor and drive shall provide higher fan output when job requirements exceed standard conditions.

4. Cooling system shall be protected by: loss of charge protection, high and low pressure stat, compressor motor overloads, and a timing device which will prohibit the compressor motor form running continuously to a starting, current more than once every five (5) minutes.

5. Units shall have phase-phase protection. The unit will have an auto air compressor lockout set at 55 degrees. Controls - provide wall mounted, hot/cold/on-off thermostat. Smoke detectors shall be provided by division 15, installed by division 15 and wired by division 16 (do not. Locations for smoke detectors are indicated on HVAC plans).

6. Provide air conditioning unit with soft cooling coil and gas relief option.

C. Air Distribution Equipment

1. Furnish supply air diffusers and return air grills as scheduled on the design drawings.

a. Metal-air or PRIME may be substituted as an equal.

2. Grills registers and diffusers shall be installed in accordance on the design drawings.

D. DUCTWORK

1. Glass fiber duct board with uni-microbially treated inner lining, called "ough duct". Inner lining shall be sealed in accordance with the manufacturer's recommendations. Board shall

1. Connections to Miscellaneous Equipment:

A. Rough-in and connect water, waste, and vent to complete the installation of equipment listed on the drawings.

B. Plumbing fixtures shall be provided complete as shown on the drawings with all required supply, waste, soil, and vent connections, together with all fittings, supports, fastening devices, cocks, valves and traps.

C. All fixtures shall have stop valves on all water connections. All exposed metal trim on all fixtures shall be polished chromium plated. All exposed pipes extending from wall shall have chromium plated brass escrowed mounted against wall. Exposed PVC piping and traps are unacceptable.

D. The plumbing fixtures shall be roughed-in accordance with manufacturer's "rough-in information". Provisions for mounting wall fixtures shall be made while the wall is being built.

F. Drainage System:

A. Pipe slope:

1. 1/2" inch diameter and less shall be installed with a fall of not less than 1/4 inch per foot.

2. 3/4" inch diameter and less shall be installed with a fall of not less than 1/8 inch per foot.

3. 1 inch diameter or larger shall be installed with a fall of not less than 1/8 inch per foot.

G. Pipe and Fittings:

A. Drain, waste and vent piping for this project shall be schedule 40 PVC type DWV.

B. Provide cleanouts every 75 feet, at changes in direction, at base of down spouts and at base of soil and waste stacks.

1-1/2" thick, r-6. All field joints shall be sealed with glass fiber and mastic.

2. Adjustable supports and dampers shall be installed in every split and branch duct and shall be provided with locking clamps on exposed or in accessible areas of the duct for ease of operation. Elbows or curves in duct direction greater than 45 degrees shall be fitted with turns consisting of curved air blade blades or vanes, which will permit the air to make abrupt turns without appreciable turbulence.

3. Flexible ductwork shall be acoustical low pressure type with interior liner, metal helix, fiberglass insulation with an R-value of 6.0 or greater, and copolymer seamless outside shell. The entire flexible duct assembly shall be listed in accordance with UL-81 class I air duct material. Flexible ductwork shall meet the energy efficiency code.

4. All exhaust ductwork shall be galvanized steel.

E. FIRE SAFETY CONTROLS

1. Install smoke detector furnished by division 16 in supply and return air ducts. Detector shall shut unit off when activated.

F. VIBRATION ISOLATION

1. All blower units and vibrating type equipment shall be properly fitted with mass industries vibration isolation equipment sized in accordance with equipment weight and duty.

2. Provide flexible connectors at all supply and return connections to air conditioning equipment consisting of heavy canvas or neoprene fabric with airtight seams and connections to the equipment.

G. AIR FILTERS

1. Filters shall be 2" fiberglass media 303 throwaway type in a rigid frame with a supporting maze across both entering and leaving surfaces. Supply one complete set of filters after owner's final acceptance. Part 30/30 or equal.

H. ACCESS DOORS

### 3.1 INSTALLATION

A. All locations of equipment, piping, etc. indicated on the drawings are diagrammatic and shall be followed as closely as possible, the plan, subject to building construction and interferences with other trades. All work shall be installed to ensure maximum headroom, balanced operation and optimum aesthetic appearance. Contractor's responsibility for any field measurements required to provide an approved and functional installation.

B. Not all components required for a complete Installation are shown on these drawings. Refer to equipment installation instructions, schedules and applicable codes for additional information, including required connection locations, types and sizes.

C. Provide isolation valves and unions at all equipment and as indicated on drawings.

D. Contractor shall be responsible for furnishing and installing adequate and proper insulation and moisture-seal in a manner that will permanently prevent the accumulation of any objectionable condensation on the exterior of container or other parts of the system. The contractor shall correct the cause of any condensation and fully repair, without cost the owner, any damages to building partitions, furnishings or equipment caused by condensation from this system, for the full period of the guarantee.

E. Perform all work necessary to prepare the structures for the installation of the work.

F. All holes, openings and damaged materials created during construction shall be repaired and finished by experienced workers. Provide all roof, wall and floor penetrations required to complete installation or work (maintain fire rating of existing structure). All penetrations shall be sealed and finished to match surrounding conditions. Sealant shall be applied to all penetrations through wall, roof and floors shall be sheaved and sealed so as to be water and air tight.

G. Furnish in ductwork as indicated and wherever necessary for proper access to all instruments, controls, fire damper motors dampers and equipment and for convenient inspection, maintenance and replacement of same. Size to be ample for use. Openings to be reinforced on all sides with material or ductwork in which doors are installed.

H. Work using vent cover hardware throughout. All doors to be hinged with brass pin hinges and with quick opening (QO) handles.

I. Reach in doors to be 18" high.

J. Two (2) #10 Hinges (one per #90 latch).

K. Access doors (hard surface) on motor cabinet providing hinge covers (min. 12"x12") for dampers, valves, etc. Where floors, walls, and ceilings must be penetrated to access mechanical systems, finish shall be coordinated through the architect or owner's representative to match surrounding finishes. Fire rated access doors in fire rated walls and ceilings shall bear a U.L. label for fire rating requirement.

L. UTILITY FANS  
1. Contractor shall furnish and install centrifugal fans of size and type called for on drawings.  
2. Fans shall be rated and constructed to be capable of operating at static pressure of 0.5" above BDOOR AIR CURTAIN (if new equipment is show on drawings)  
3. Units shall be furnished with sufficient structural strength to be supported from both ends without immediate support. Multiple units shall not be permitted. Unit casing shall be a minimum of 18 gauge 304 stainless steel in a number three finish.  
4. Mounted fans shall be supplied with curved centrifugal discharge duct design, with zinc plated hubs. Tangential flow blowers and coupling connection shall not be permitted. In screen shall be perforated stainless steel powder coated black.  
5. Discharge nozzle shall be high efficiency plenum, designed so that the air leaves on a 6 degree plane. Air curtain creates a positive air seal with directional air flow valve. The vane shall facilitate deflection of air stream 20 degrees. Unit shall have multiple speed motor(s) to control minimum down draft velocity.  
6. All air curtains consist of a stainless steel casing, centrifugal fan, raised stainless steel insect screen, discharge nozzle, motor(s) and an optional 1/2 inch cleanable filter.  
7. Motors at 120 V/ 1075 rpm each shall be heavy duty equipped with permanently lubricated, shielded sleeve bearings of equal size at each end and double extended shafts requiring no outward bearings.

SECTION 15000

MECHANICAL	
<b>PART 1 GENERAL</b>	
<b>1.1 SUMMARY</b>	<p>1. Shall be as manufactured by <u>Owen-Corning, Manville, Pittsburgh Corning, Armstrong, or approved equal insulation sundries</u> and adhesives shall be manufactured by <u>Benjamin Foster, Childers, Vmisco, or approved equal.</u></p> <p>2. Insulate all sheet metal ductwork except exhaust ductwork externally with 2" thick (1-6 minimum) Manville R series Microtyle type-100 insulation or approved equal. Insulate with FSK facing an UL fire hazard classification of: flames spread 25, smoke developed 50, and fuel contributed 5d. Install per energy efficiency code and manufacturer's recommendations.</p> <p>3. Contractor shall be responsible for furnishing and installing adequate and proper insulation and</p> <p>1. TESTING</p> <p>1. Condensate drains shall be tested by temporarily plugging all outlets and filling the system with water to the level of the highest vent stack. The system must be inspected and all leaks repaired and the test repeated until the water level does not decrease for a period of 24 hours.</p> <p>2. Adjust the air-conditioning systems, ventilating systems, fans, etc. To deliver not less than the required air quantity with quantities in excess to be subject to the approval of the engineer if found not have objectionable effects such as noise, drafts, or motor overloads.</p>
	<p>4. Materials and workmanship</p> <p>1. Products and materials shall meet or exceed the quality or requirements specified or shown on the drawings.</p> <p>2. Provide products and materials, which the manufacturer has certified as appropriate to the applications shown on the drawings and specifications.</p> <p>3. Provide products and materials, which are supported by convenient, parts availability and servicing.</p> <p>4. Workmanship shall be in all respects of the highest quality and all construction shall be done according to the best practice of the trade. All systems shall be made complete and operational in first class condition. Furnish all necessary labor and materials to construct a complete system.</p> <p>5. The HVAC contractor shall coordinate all electrical, ATC, and plumbing requirements with those subcontractors.</p> <p>6. Obtain all permits and inspections required by law for the completion of the work.</p> <p>1. Cost of the required permits and inspections shall be paid by the contractor. The contractor shall obtain and pay for all certificates of approval, which be obtained prior to final acceptance of the job.</p> <p>2. All materials and labor furnished by the contractor shall be in strict accordance with the rules and regulations of the state and municipality, utility companies, building code - 2001, national electric code (NEC) and the national fire protection association (NFPA).</p> <p>C. Provide all labor, materials, services, equipment, and appliances required for the fabrication and installation of mechanical systems including heating, ventilating, air-conditioning, and various systems as indicated on the design drawings and as outlined in these specifications.</p>

D. Equipment and design of systems indicated on the design drawings and within these specifications shall be considered as "specified standard" of quality. Substitutions shall be of equal quality.

E. The entire system and all components listed herein shall meet all state, county, and local codes and ordinances in every respect. The contractor shall obtain all required permits, inspections and pay all fees.

F. All equipment, etc. Shall be new unless otherwise specified, free of defects as shown on the drawings, and as indicated in these specifications.

G. All materials shall be fabricated and installed in a neat and professional manner with the coordination of all involve trades to avoid interferences and delay due to lack of coordination. No allowances will be made for rework due to coordination difficulties or interferences between involved trades.

<p><b>2.1 QUALITY ASSURANCE</b></p> <ol style="list-style-type: none"> <li>Provide to the owner with the following prior to final acceptance             <ol style="list-style-type: none"> <li>Parts for each piece of equipment.</li> <li>One bound set of approved shop drawings.</li> <li>One bound set of operating instructions and maintenance schedules for each piece of equipment.</li> <li>Copies of all warranties for each piece of equipment.</li> </ol> </li> <li>Guarantees and Warranties             <ol style="list-style-type: none"> <li>Guarantee all labor and material furnished for a period of one year extending from the time of final acceptance of the building. The guarantee shall cover the repair or replacement without additional cost to the owner for any defective material or faulty workmanship.</li> </ol> </li> <li>Provide warranties for each piece of major equipment. Warranties shall be included with the owner's final documents.             <ol style="list-style-type: none"> <li>Training Services                 <ol style="list-style-type: none"> <li>Thoroughly instruct the owner's personnel during normal working hours on start-up and shut-down procedures, troubleshooting procedures, servicing and preventive maintenance schedules and provide a review with the owner's personnel the data contained in the operating and maintenance manuals. Schedule the training with the owner. Provide at least 7-days prior notice to architect/engineer.</li> </ol> </li> <li>System Identification                 <ol style="list-style-type: none"> <li>Provide identification labels on or near each piece of major equipment and each operational device and component. The labels shall be constructed of engraved plastic laminate sign or plastic equipment marker permanently secured to equipment. The lettering shall be a minimum of 1/2 inch high for equipment name and 3/8 inch for equipment information.</li> </ol> </li> </ol> </li> </ol> <p><b>2.1.1 MATERIALS</b></p>	<p><b>3.1 INSTALLATION</b></p> <ol style="list-style-type: none"> <li>All locations of equipment, ductwork, piping, etc. indicated on the drawings are diagrammatic and shall be followed as closely as possible to the plans subject to building construction and any interference with other trades. All work shall be installed to ensure maximum headroom, clearances, balanced operation and suitable aesthetic appearance. Contractor is responsible for any field measurements required to prepare an approved and functional installation.</li> <li>Not all components required for a complete installation are shown on these drawings. Refer to equipment installation instructions, schedules and applicable codes for additional information, including required connection locations, types and sizes.</li> <li>Contractor shall be responsible for furnishing and installing adequate and proper insulation and moisture seal in a manner that will permanently prevent the accumulation of any objectionable moisture on the exterior of all conditioning units, refrigerant piping, condensate drain piping, air ducts or other parts of the system. Contractor shall correct the cause of any condensation and fully repair, without cost to the owner, any damages to building surfaces, furnishings or equipment caused by condensation from this system for the full period of the guarantee.</li> <li>All penetrations shall be patched and finished to match surrounding surfaces and finishes. All equipment or pipe penetrations through walls, roofs and floors shall be sealed and sealed so as to be water and airtight.</li> <li>Cleaning testing and adjusting: the contractor, at his expense, shall clean, repair, adjust, check, balance, and place in service the various systems herein specified for their respective</li> </ol>
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- A. Hangers and Supports
  1. Provide all necessary ductwork, pipe supports, hanger rods, clamps and attachments to properly support ductwork, piping and equipment from the building structure. Provide any angle iron or unistrut and suspension rods required to install equipment, piping and ductwork.
  2. All supports exposed to outdoors shall be cleaned, primed and painted to prevent rusting. Finish color to be selected by the owner.
  3. The use of bailing wire or perforated metal strapping is not acceptable for supports.
- B. Air-Conditioning Equipment (if any new equipment is shown)
  1. Units shall be air-to-air electric if as scheduled on the design drawings. Units with integral electric resistance heaters shall have a single-point electric connection. Total cooling capacity of the units shall be as scheduled on drawings. Unit cabinets shall be constructed of galvanized steel, powder coated with baked enamel. Cabinet insulation shall comply with local energy code.
  2. The units shall contain hermetic compressors with service valves and vibration isolation. Units shall have dual compressors and dual refrigeration circuits or capacity reduction steps where indicated on equipment schedule.
  3. The indoor air fans shall be of the forward-curved centrifugal class 1 type. The outdoor air fans shall be of the propeller type, each directly driven by an in-herently protected motor. Motor and drive shall be rated for fan output when the fan is operating at the design fan capacity. The fan shall be protected. Cooling system shall be protected by loss of charge protection, high and low pressure stat, compressor motor overloads, and a timing device which will prohibit the compressor motor from starting, or starting, current limit, and a timing device which will prohibit the compressor motor from phase-loss protection. The unit will have an ambient air compressor lockout set at 55 degrees. Controls - provide wall mounted, heat/cool on-off auto thermostat. Smoke detectors shall be installed by division 15, minimum 15 and divided by division 1 600s. Locations for smoke detectors are indicated on HVAC plans.
  4. Provide air conditioning unit with soft cooling coil and gas reheat option.
- C. Air Distribution Equipment
  1. Furnish supply air diffusers and return air grills as scheduled on the design drawings.
  2. Metal-air or Air-prime may be substituted as an equal.
  3. Grills registers and diffusers shall be furnished as scheduled on the design drawings.
- D. DUCTWORK
  1. Glass fiber duct board with anti-microbial treated inner lining, equal to "tough-duct". Inner lining shall be installed in accordance with manufacturer's instructions. Duct board shall be 1-1/2" thick, r.f.s. All field joints shall be sealed with glass fabric and mastic.
  2. Adjustable supports and dampers shall be installed in every split and branch duct and shall be provided with locking quadrants on exposed or in accessible areas of the duct for ease of adjustment. Dampers or quadrants in ducts shall be installed in straight ducts and not in air turns consisting of curved arched blades or vanes, which will permit the air to make abrupt turns

equipment, accessories and piping. He shall furnish all labor, materials, equipment, and tools required to perform tests required by these specifications and by the governing authorities.

F. No work shall be concealed until properly inspected and tested.

5. Removal applicable turbulence.

6. Flexible ductwork shall be acoustical low-pressure type with interior liner, metal helix, fiberglass insulation, and an R-value of 6.0 or greater, and copolymer seamless outside shell. The entire flexible duct assembly shall be listed in accordance with UL-181 class I air duct material. Flexible ductwork must meet the energy efficiency code.

7. All exhaust ductwork shall be galvanized steel.

8. FIRE SAFETY CONTROLS

9. Install smoke detector furnished by division 16 in supply and return air ducts. Detector shall shut unit off when activated.

10. VIBRATION ISOLATION

11. All blower units and vibrating type equipment shall be properly fitted with mason insulating vibration isolation system listed in accordance with equipment weight and duty.

12. Provide flexible connectors at all supply and return connections to air conditioning equipment consisting of heavy canvas or neoprene fabric with airtight seams with connections to the equipment.

13. AIR FILTERS

14. Filters shall be #2 fiberglass media 303 throwaway type in a rigid frame with a supporting mesh across both entering and leaving surfaces. Supply one complete set of filters after owner's final acceptance. Furnish 30/30 or equal.

15. ACCESS DOORS

16. Furnish in ductwork in addition and wherever necessary for proper access to all instruments, controls, fire dampers motorized dampers and equipment for and convenient inspection, maintenance and replacement of same. Size to be ample for usage. Openings to be reinforced on 18" material or ductwork in which doors are installed.

17. Hardware - use vent lock hardware throughout. All doors to be hinged with brass pin hinges and with quick opening latches as follows:

- i. Reach in doors to be 12" high.
- ii. Two (2) #150 hinges w/ one #900 latch.

18. Access doors (hinged) contractor shall furnish hinge access doors (min. 12"x12") for valves, etc. Where floor valves, and ceilings must be penetrated to access equipment systems. Finish shall be coordinated through the architect or owner's representative to match surrounding finishes. Fire rated access doors in fire rated walls or ceilings shall bear a U.L. label for fire rating requirement.

19. UTILITY FANS

20. Contractor shall furnish and install centrifugal fans of size and type called for on drawings.

21. Fans shall be furnished to be rated and constructed to be capable of operating at static pressures of 0.5" above 1" DDOOR AIR CURTAIN (if new equipment is shown on drawings)

22. Units shall be furnished in single increments of sufficient structural strength to be supported from above without intermediate support and shall be permitted. Unit casting shall be a minimum of 18 gauge 304 stainless steel in a number three finish.

23. Galvanized fans shall be forward curved centrifugal type, double inlet design, with zinc plated hubs. Tangential type blowers and coupling connection shall not be permitted. Inlet screen shall be composed of finesse steel powder coated black.

24. Discharge nozzle shall be high efficiency discharge plenum, designed so that the air leaves on a 6 degree plane. Air curtain creates a positive air seal with directional air foil vane. The vane shall be constructed of air stream 120 degrees. Unit shall have multiple motor(s) to control air column down from maximum speed.

5.2. QUALITY ASSURANCE

6. MATERIALS AND WORKMANSHIP

a. Products and materials shall meet or exceed the quality or requirements specified or shown on the drawings.

b. Provide products and materials, which the manufacturer has certified as acceptable to the applications shown on the drawing and specifications.

c. Provide products and materials, which are supported by convenient, parts availability and servicing.

d. Workmanship shall be in all respects of the highest quality and all construction shall be done according to the best practice of the trade. All finishes shall be made complete and operational in first class working order. Furnish all necessary labor and materials to construct a complete system.

e. Provide all labor, materials, equipment, fees, electrical permits and all necessary items for a complete electrical system.

f. Provide complete systems, regardless of whether each individual component is indicated or not.

g. The work shall comply with the latest applicable editions of the following listed codes and ordinances:

- i. NFPA no. 70 "National electrical code".
- ii. NECA "standard of installation code".

h. Electric utility company service standards.

i. Telephone utility company service standards.

- ii. Cable TV utility company service standards.
- iii. Underwriter's laboratory standards.
- iv. Other local codes, ordinances and standards as applicable to the place of work.

h. Related work specified elsewhere:

- i. Refer to the architectural, structural and mechanical divisions of the work for electrical work to be done in conjunction with this work.
- ii. Verify locations and electrical requirements of all equipment furnished by the owner or other trades prior to installation of control and wire.

7. SUBSTITUTIONS

8. Equipment and design of systems indicated on the design drawings and within the specifications are considered as "specified standards" of quality and, with dimensions of the specified materials from the basis of design.

9. PRODUCTS

10. All materials shall be new and of the best quality, free of defects. Where applicable, all materials shall be U.L. Listed or be listed with an approved testing agency.

11. WORKMANSHIP

12. All materials shall be fabricated and installed in a neat and workmanlike manner with the coordination of all trades to avoid interference and delay due to lack of coordination.

13. CLEANING, TESTING AND ADJUST

14. Clean, repair, adjust, check and place in service the various systems shown on the construction documents.

15. GUARANTEE AND WARRANTY

16. Provide written guarantee to the owner stating that all work has been performed in accordance with the construction documents and warranty all work against defects due to workmanship or workmanship for a period of one year from beneficial use.

4. All air curtains shall consist of a stainless steel casing, centrifugal fan, raised stainless steel metal mesh screen, motor, UL fire-rated insulation, and an optional 1/2 inch neoprene weather filter.

5. Motors at 172 HP 1075 RPM shall have heavy duty type equipped with permanently lubricated, shielded sealed bearings of equal size at each end and double extended shafts requiring no outward bearings.

K. INSULATION

i. Shall be as manufactured by Owen-Corning, Manville, Pittsburgh corning, Armstrong, or approved equal insulation suppliers and adhesives shall be manufactured by Benjamin Foster, Childers, Vmaxco, or approved equal.

ii. Insulate all sheet metal ductwork except exhaust ductwork externally with 2" thick (6 v minimum) urethane Microclote type 100 insulation and adhesive to meet UL requirements to have F90 and UL fire hazard classification of flames spread 25, smoke developed 50, and fuel contributed 5d. Install per energy efficiency code and manufacturer's recommendations.

j. Contractor will be responsible for furnishing and installing adequate and proper insulation and vapor barrier.

L. TESTING

i. Condensate drains shall be tested by temporarily plugging all outlets and filling the system with water to level of the highest vent pipe and test for leaks and all leaks repaired and the test repeated until the water level does not decrease for a period of 24 hours.

ii. Adjust the air-conditioning systems, ventilating systems, fans, etc. to deliver not less than the required air quantity with quantities in excess to be subject to the approval of the engineer if found not have objectionable effects such as noise, drafts, or motor overloads.

PART 1 PRODUCTS

A. MATERIALS AND WORKMANSHIP

i. Assume full responsibility for the timely placement of all conduit, outlet boxes, cabinets, and other wiring devices in walls, ceilings, etc. As the construction progresses.

ii. Raceway and conduit systems:

a. Surface mounted equipment and raceways will be painted under division 9. Color as specified by the architect.

b. The raceways as required by the national electrical code with oversized conduits as indicated.

c. Provide complete raceway systems including conduit, supports, boxes and enclosures and all connections to electrical components. Conceal raceway in finished areas unless indicated otherwise. Install exposed raceway parallel or perpendicular to walls, ceiling or structural members.

d. Conduit systems shall be suspended from or affixed to the building superstructure only.

iii. All raceways shall be run in a neat and workmanlike manner and shall be properly supported in accordance with the NEC with approved conduit straps, clamps, hangers and other structural fasteners. Non-bolted conduit clamp supporting of the conduit system from suspended ceilings is not permitted.

iv. Whenever for branch circuits the conduit has an insulated copper system ground conductor throughout the entire length of the circuit in accordance with the NEC. Grounding conductors shall be included in the total conduit fill when determining conduit size.

v. An approved nylon pull-cord shall be installed in all empty conduits. Pull cords shall be fastened to prevent accidental removal.

vi. Circuit numbers and system identification shall be printed on junction box covers using ink markers and be plainly visible.

**3.1 INSTALLATION**

All locations of equipment, ductwork, piping, etc. indicated on the drawings are diagrammatic and shall be followed as closely as possible to the plans subject to building construction and interferences with other trades. All work shall be installed to ensure maximum headroom, balanced operation and suitable aesthetic appearance. Contractor is responsible for any field measurements required to provide an approved and functional installation.

**A.** Not all components required for a complete installation are shown on these drawings. Refer to equipment installation instructions, schedules and applicable codes for additional information, including required connection locations, types and sizes.

**B.** Contractor shall be responsible for furnishing and installing adequate and proper insulation and moisture-seal in a manner that will permanently prevent the accumulation of any objectionable moisture on the exterior air-side of ventilation coils, refrigerant piping, condensate drain piping, air ducts or other parts of the system. This work shall correct the cause of any condensation and fully repair, without cost to the owner, any damages to building surfaces, furnishings or equipment caused by condensation from this system for the full period of the guarantee.

**C.** All penetrations shall be patched and finished to match surrounding surfaces and finishes. All equipment or pipe penetrations through walls, roofs and floors shall be sleeved and sealed so as to be water and airtight.

**D.** Cleaning testing and adjusting the contractor, at his expense, shall clean, repair, adjust, check, balance and place in service the various systems herein specified with their respective equipment, accessories and piping. He shall furnish all labor, materials, equipment, and tools required to perform tests required by these specifications and by the governing authorities.

**F.** No work shall be concealed until properly inspected and tested.

**viii.** Conduit shall be EMT for branch circuit wiring with set screw connectors. Unless otherwise indicated, PVC (schedule 40) shall be used below and above grade. Flexible conduit shall be used to make final connection to electrical equipment where required, liquid tight shall be used for exterior applications. MC Cable is allowed.

**B. WIRE AND CABLE:**

a. Branch circuit and feeder conductors shall be copper 600 volt type THHN/THWN. Conductors

b. #12 AWG and smaller shall be solid. The minimum wire size shall be #12 AWG unless noted otherwise.

c. No aluminum wire will be permitted.

d. All copper taps and splices #8 AWG or smaller shall be fastened with wire nut connectors. All taps and splices larger than #8 AWG shall be made with cold worked high compression type connectors. An approved shrink sleeve to equal insulation rating of the wire shall be used to insulate splices.

e. All power feeders and branch circuits #12 AWG and larger shall be wired with color-coded wire as herein specified. Power feeders #8 AWG and larger shall either be color-coded with tape or paint inside all panels, junction boxes, etc.

f. 120/208 volt 3 phase, 4 wire

g. Phase wires black, red, blue

h. Neutral - white

i. Ground - green or green with yellow stripes

j. Switch tags - colors other than those utilized above.

f. Where permitted by code approved cable assemblies may be used for concealed branch circuit wiring only.

PART 1 GENERAL	SECTION 16000 ELECTRICAL	D. OUTLET BOXES:
1.1 SUMMARY		a. Fixtures to be used, number and size of conductors. Minimum 4"x4" square with required ribs. Welded boxes are allowed. Provide outlet boxes for all power and communication devices.
A. SERVICE INTERRUPTIONS AND UTILITY:	Coordinate with the owner the interruption of utility services necessary to accomplish the work.	b. Ceiling outlet boxes shall be 4" square by 1-1/2" deep or larger as required for number and size of conductors.
B. IDENTIFICATION:	Properly label all panel boards, distribution panel boards, signal distribution systems including feeder circuits. Provide two copies of typed panel board schedules.	c. Flush outlet boxes shall be one piece steel outlet boxes. Boxes shall be mounted so that covers and plates will finish flush with finished surfaces without the use of shims, mats, or other devices. Plates shall not support wiring devices. Gang switches with common cover plates where two or more are indicated in the same location. Outlets on each side of the wall shall have separate boxes, through-wall outlet boxes or back-to-back mounting shall not be permitted. Trim rings shall be extended to within 1/4" of finish wall surface.
C. PERFORMANCE VERIFICATION:	Provide for the final inspection test feeder and branch circuit panels #6 AWG and larger for shorts, open, intentional and unintentional grounds by means of an approved type of constant "Megger".	d. Outlet outlet boxes mounted in stud walls with two screws inside of outlet box to a horizontal stud brace between vertical studs.
D. LAYOUT OF WORK:	Correlate final equipment locations with governing architectural drawings. Provide coordination of all trades required for installation in a neat and workmanlike manner.	e. Outlet boxes that do not receive wiring devices shall be provided with blank plates to match installed wiring device plates.
E. SITE INVESTIGATION:	Verify existing site conditions thoroughly before bid. Advise architect prior to bid of any discrepancies between existing site conditions and contract documents.	f. Outlet boxes/condut boxes exposed to the weather, not contained inside building walls, shall be type malleable iron. Covers shall be of the type and from the same manufacturer as the conduit bodies and shall be suitable for use in the area served. Cast aluminum boxes will not be approved.
F. SUPERVISION OF WORK:	The field superintendent who has a minimum of four years' experience on projects of a similar nature and size. The superintendent shall be present at all times that work under the division is being installed or affected.	g. Locate special purpose outlets as indicated on the drawings for the equipment served.
G. COORDINATION:	Provide all coordination and supervision where work connects to or is affected by other trades. Locate all openings required for work performed under this section.	h. Location and type of outlets shall be coordinated with the appropriate trades involved. The wiring of complete information for proper electrical rough-in shall be included as work required under this division of the contract.
H. BASIS OF WORKING DESIGN:	The construction document design is based on specific sizes of equipment. Wherever equipment provided differs from the documents, the associated wiring and circuit components shall be changed to the proper size for the equipment being installed with no additional cost to the owner.	D. WIRING DEVICES: a. Duplex convenience outlets - NEMA 5-20R Hubbell #3562. b. Duplex convenience outlets - GFI type NEMA 5-20; Hubbell # gfi362. c. Switches - 20a i. Single pole - Hubbell #1221

<p><b>QUALITY ASSURANCE</b></p>	<p>ii. Double pole - Hubbell #1222</p>
<p><b>A. MATERIALS AND WORKMANSHIP</b></p>	<p>iii. Three pole - Hubbell #1121</p>
<p>a. Products and materials shall meet or exceed the quality or requirements specified or shown on the drawings.</p> <p>b. Provide products and materials, which the manufacturer has certified as appropriate to the specifications shown on the drawings and specifications.</p> <p>c. Provide products and materials, which are supported by convenient, parts availability and servicing.</p>	<p>iv. Four pole - Hubbell #1124</p> <p>d. Equal devices provided at copper or P&amp;S may be provided.</p> <p>e. Motor starting switch</p>
<p>d. Workmanship shall be in all respects of the highest quality and all construction shall be done according to the best practice of the trade. All systems shall be made complete and operational in first class working order. Furnish all necessary labor and materials to construct a complete system.</p>	<p>f. E. Square of class 2510 type FGIP surface mounted or equal by cutter hammer or GE.</p> <p>f. Color of wiring devices shall be ivory unless otherwise indicated or directed.</p>
<p>e. Provide all labor, materials, equipment, fees, electrical permits and all necessary items for a complete electrical system.</p> <p>f. Provide complete systems, regardless of whether each individual component is indicated or not.</p>	<p>g. Other devices, specification grade, type and NEMA configuration as indicated.</p> <p>h. Communications outlets - as indicated.</p>
<p>g. The work shall comply with the latest applicable editions of the following listed codes and ordinances:</p> <p>i. NFPA no. 70 "National electric code"</p> <p>ii. NFPA no. 70 "Standard of installation."</p> <p>iii. Electric utility company service standards.</p> <p>iv. Telephone utility company service standards.</p> <p>v. Cable TV utility company service standards.</p>	<p>i. Provide panel boards as indicated on the drawings or equals as manufactured by Cutler Hammer, Square D or Siemens. Short circuit rating shall be as listed on the panel schedules</p>
<p>vi. Other local codes, ordinances and laws applicable to the place of work.</p> <p>h. Related work specified elsewhere:</p> <p>i. Refer to the architectural, structural and mechanical divisions of the work for electrical work to be done in conjunction with the divisions.</p> <p>ii. Verify locations and electrical requirements of all equipment furnished by the owner or other trades prior to installation of conduit and wire.</p>	<p>E. Ground the electrical system as indicated and, as a minimum, in accordance with article 250 of the national electrical code and all local requirements.</p>
<p><b>B. SUBSTITUTIONS:</b></p> <p>Equipment and design of systems indicated on the design drawings and within the specifications are considered as "specified standard," of quality and, with dimensions of the specified materials from the basis of design.</p>	<p>F. Make final connections to all electrical equipment furnished and/or set in place by others.</p>
<p><b>C. PRODUCTS:</b></p> <p>All materials shall be new and of the best quality, free of defects. Where applicable, all materials shall be U.L. Listed or be listed with an approved testing agency.</p>	<p>G. Furnish and install equipment disconnects as indicated or required. Switches shall be sized to suit the actual equipment being served.</p>
<p><b>D. WORKMANSHIP</b></p> <p>All materials shall be fabricated and installed in a neat and workmanlike manner with the coordination of all trades to avoid interference and delay due to lack of coordination.</p>	<p>H. Connect motor starters, relays, switches, and related items furnished under other divisions.</p>
<p><b>E. CLEANING, TESTING AND ADJUSTING</b></p> <p>Clean, repair, adjust, check and place in service the various systems shown on the construction documents.</p>	<p>I. Ductwork takes precedence over electrical conduit. Coordinate conduit runs to allow ductwork to be installed as drawn. Light fixtures take precedence over ductwork.</p>
<p><b>F. GUARANTEE AND WARRANTY:</b></p> <p>Provide written guarantee to the owner stating that all work has been performed in accordance with the construction documents and warranty all work against defects due to workmanship or materials for the period of one year from beneficial occupancy.</p>	<p>J. All interior lights shall be controlled from wall switches. Lights shall not be switched from panel unless otherwise indicated.</p>
<p></p>	<p>K. All enclosures shall be of the NEMA type which is suitable for the application.</p>
<p></p>	<p>L. All work shall have proper labeling. All circuits shall be labeled at panels and boxes indicated. All panels and disconnects are to be permanently marked with name or equipment served utilizing engraved nameplates, laminated phenolic blank with white letters, 3/8" high minimum. All panels are to be provided with type written panel schedules.</p>
<p></p>	<p>M. All circuit breakers serving air conditioning and refrigeration equipment shall be HACR rated.</p>
<p></p>	<p>N. Provide and install conduit and junction boxes for interior lighting as indicated and/or required.</p>
<p></p>	<p>O. Disconnect switches shall be rated normal duty, fully enclosed with dual cover locks.</p> <p>P. Quick -make/quick-break mechanisms and dual horsepower rated. Provide NEMA-3r enclosures in exterior or damp locations and nema-4 enclosures in wet locations.</p> <p>Q. Lighting fixtures, lamps, mounting hardware.</p>

## 2.1 MATERIALS

### A. MATERIALS AND WORKMANSHIP

- a. Assume full responsibility for the timely placement of all conduit, outlets, boxes, cabinets, and other wiring devices in walls, ceilings, etc. As the construction progresses.
- b. Raceway and conduit systems:
- i. Surface mounted equipment and raceways will be painted under division 9. Color as selected by the architect.
- ii. Size raceway as required by the national electrical code with oversized conduit as indicated. Provide complete raceway systems including conduit, supports, boxes and enclosures and all connections to electrical equipment. Conceal raceway in finished areas unless indicated otherwise. Install exposed raceway parallel or perpendicular to walls, ceiling or structural members.
- iii. Conduit systems shall be suspended from or affixed to the building superstructure only.
- iv. All raceways shall be run in a neat and workmanlike manner and shall be properly supported in accordance with the NEC with approved conduit straps, clamps, hanger rods and structural fasteners. Non-bolted conduit clamps supporting part of the conduit system from suspended ceilings is not permitted.
- v. Raceways for branch circuits and feeders shall have an insulated copper system ground conductor throughout the entire length of the circuit in accordance with the NEC. Grounding conductors shall be included in the total conduit fill when determining conduit size.
- vi. An approved nylon pull-cord shall be installed in all empty conduits. Pull cords shall be fastened to prevent accidental removal.
- vii. Circumferrers and system identification shall be printed on junction box covers using ink markers and be plainly visible.

- c. Provide all necessary mounting hardware and install fixtures as shown on the drawings and per the manufacturer's recommended installation instructions. Fixtures shall be firmly mounted using standard supports for outlets and fixtures.
- d. Lamps shall have a 30 day guarantee

vi. Conduit shall be EMT for branch circuit wiring with set screw connectors. Unless otherwise indicated, PVC (schedule 40) shall be used below and above grade. Flexible conduit shall be used to make final connection to electrical equipment where required, liquid tight shall be used for exterior applications. MC Cable is allowed.

B. WIRE AND CABLE:

- a. Branch circuit and feeder conductors shall be copper 600 volt type THHN/THWN. Conductors b. #12 AWG and smaller shall be solid. The minimum wire size shall be #12 AWG unless noted otherwise.
- c. No aluminum wire will be permitted.
- d. All copper taps and splices #8 AWG or smaller shall be fastened with wire nut connectors. All taps and splices larger than #8 AWG shall be made with color keyed high compression type connectors. An approved shrink sleeve to equal insulation rating of the wire shall be used to insulate splices.
- e. All power feeders and branch circuits #8 AWG and smaller shall be wired with color-coded wire as herein specified. Power feeders #8 AWG and larger shall either be color-coded with tape or paint inside all panels, junction boxes, etc.
- i. 120/208 volt: 3 phase, 4 wire
- ii. Phase wires black, red, blue
- iii. Neutral - white
- iv. Ground - green or green with yellow stripes
- v. Switch legs - colors other than those utilized above.
- f. Where permitted by code approved cable assemblies may be used for concealed branch circuit wiring only.

**OUTLET BOXES:**

- a. Fixtures to be used, and number and size of conductors. Minimum 4"x4" square with required ribs. Welded boxes are allowed. Provide outlet boxes for all power and communication devices.
- b. Ceiling boxes shall be 4" square by 1-1/2" deep or larger as required for number and size of conductors.
- c. Flush outlet boxes shall be one piece steel outlet boxes. Boxes shall be mounted so that covers and plates will finish flush with finished surfaces without the use of shims, mats, or other devices. Plates shall not support wiring devices. Gang switches with common cover plates where two or more are indicated in the same location. Outlets on each side of the wall shall have separate boxes, through-wall type boxes or back-to-back mounting shall not be permitted. Trim rings shall be extended to within 1/4" of finish wall surface.
- d. Supply outlet boxes mounted in stud walls with two screws inside outlet box to a horizontal stud brace between vertical studs.
- e. Outlet boxes that do not receive wiring devices shall be provided with blank plates to match installed wiring device plates.
- f. Outlet boxes/conduit bodies exposed to the weather, not contained inside building walls, shall be type malleable iron. Covers shall be of the type and of the same manufacturer as the conduit bodies and shall be suitable for the use in the area served. Cast aluminum boxes will not be approved.
- g. Locate special purpose outlets as indicated on the drawings for the equipment served.
- h. Location and type of outlets shall be coordinated with the appropriate trades involved. The securing of complete information for proper electrical rough-in shall be included as work required under this division of the contract.

**D. WIRING DEVICES:**

- a. Duplex communication outlets - NEMA 5-20r Hubbell #3562.
- b. Duplex convenience outlets - GFI type NEMA 5-20r, Hubbell # g3562.
- c. Switches - 20a
- i. Single pilot - Hubbell #1221

- ii. Double pole - Hubbell #1222
- iii. Three pole - Hubbell #1223
- iv. Four pole - Hubbell #1224
- d. Equal devices by cooper or P&S may be provided.
- e. Motor starting switch
- i. Square d class 250 type FGIP surface mounted or equal by cutler hammer or GE.
- f. Color of wiring devices shall be ivory unless otherwise indicated or directed.
- g. Other devices, specification grade, type and NEMA configuration as indicated.
- h. Communications outlets - as indicated.
- i. Provide panel boards as scheduled on the drawings or equals as manufactured by Cutler Hammer, Square D or Siemens. Short circuit rating shall be as listed on the panel schedules


  

- E. Ground the electrical system as indicated and, as a minimum, in accordance with article 250 of the national electrical code and all local requirements.
- F. Make final connections to all electrical equipment furnished and/or set in place by others.
- G. Furnish and install equipment disconnects as indicated or required. Switches shall be sized to suit the actual equipment being served.
- H. Connect motor starters, relays, switches, and related items furnished under other divisions.
- I. Ductwork takes precedence over electrical conduit. Coordinate conduit runs to allow ductwork to be installed as drawn. Light fixtures take precedence over ductwork.
- J. All interior lights shall be controlled from wall switches. Lights shall not be switched from panels unless otherwise indicated.
- K. All enclosures shall be of the NEMA type which is suitable for the application.
- L. All work shall have proper labeling. All circuits shall be labeled at panels and boxes indicated. All panels and disconnects are to be permanently marked with name or equipment served utilizing engraved namesplates, laminated phenolic black with white letters, 3/8" high minimum. All panels are to be provided with type written panel schedules.
- M. All circuit breakers serving air conditioning and refrigeration equipment shall be HACR rated.
- N. Provide and install conduit and junction boxes for interior lighting as indicated and/or required.
- O. Disconnect switches shall be rated normal duty, fully enclosed with dual cover locks.
- P. Quick -make/quick -break mechanisms and dual horsepower rated. Provide NEMA-3r enclosures in exterior or damp locations and nema-4 enclosures in wet locations.
- Q. Lighting fixtures, lamps, mounting hardware.

a. Provide lighting fixtures, lamps, mounting hardware, etc. as required for complete installation.

b. Provide all necessary mounting hardware and install fixtures as shown on the drawings and per the manufacturer's recommended installation instructions. Fixtures shall be firmly mounted using standard supports for outlets and fixtures.

c. Lamps shall have a 30 day guarantee

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