

- BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM AARON'S BEFORE PROCEEDING.
- CONTRACTOR SHALL PREPARE ALL FLOORS AS REQUIRED TO ACCEPT NEW FLOORING MATERIALS.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTIGUISHERS AS REQUIRED BY THE LOCAL FIRE CODE.
- ALL PAINTED SURFACES SHALL RECEIVE A PRIME COAT WITH FINISH COATS AS REQUIRED TO OBTAIN PROPER COVERAGE AND UNIFORM APPEARANCE.
- THE GENERAL CONTRACTOR AND EACH SUNBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AT THE JOB SITE PRIOR TO SUBMITTING PROPOSALS. BY SUBMITTING A PROPOSAL, THE CONTRACTOR ACKNOWLEDGES THAT SUCH INSPECTIONS HAVE BEEN MADE.
- CONTRACTOR SHALL CLEAN, SERVICE AND ADJUST AS NECESSARY ALL EXISTING DOORS THAT WILL BE REUSED.
- CONTRACTOR TO INSTALL OWNER SUPPLIED CASEWORK SYSTEMS AT CASH WRAP, SALES AREA, AND BREAK ROOM, INCLUDING ALL REQUIRED POWER FOR DISPLAY ITEMS AS PER PLAN.
- ALL DESIGN AND WORK SHALL BE PERFORMED IN STRICY COMPLIANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS, EXECUTED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS. IT 15. SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INSURE THE PROCUREMENT OF ALL REQUIRED AND NECESSARY PERMITS AND APPROVALS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- PERMANENT POWER NEEDS TO BE IN PLACE AND FULLY OPERATIONAL 3 WEEKS PRIOR TO THE TURNOVER DATE (SUBSTANTIALLY COMPLETE DATE). THE CONTRACTOR WILL BE RESPONSIBLE TO REIMBURSE AARON'S INC. FOR ANY CHARGES FROM ANY FROM ANY OF ITS VENDORS IN THE EVENT THIS WORK IS NOT COMPLETED BY THE REQUIRED DEADLINE. THE CONTRACTOR SHALL NOTIFY THE AARON'S INC. CONSTRUCTION MANAGER OF ANY FIELD CONDITIONS THAT COULD IMPACT THIS WORK AND POSSIBLY CAUSE A DELAY WITHIN 1 WEEK FROM STARTING THE WORK.

- LABOR NEEDED TO DELIVER A COMPLETE ASSEMBLY AND/OR OPERATING SYSTEM(S). IT'S THE TO COMPLETE ALL ASPECTS OF THE WORK AND TO MEET ALL APPLICABLE CODES.
- 11. TO AARON'S NO LATER THAN 24 HOURS FOLLOWING DELIVERY OF THE SAID OPIS.
- 12.
- 13. MERCHANDISING PROCESS WILL BE COMPLETED.
 - ADDITION TO PROVIDING NEW AIR FILTERS.

14.

- DIAPER) TO PREVENT HYDRAULIC FLUID FROM STAINING THE FLOORS.
- AND, PERMIT AND INSPECTION FEES)
- 17. DETERIMINED BY AARON'S CPM.

ABBREVIATIONS

KEVIATIONS)	
ACE OF STUDS	PKG	PARKING
ACE OF WALL	PLAM	PLASTIC LAMINATE
RAMING	PLWO	PLYWOOD
IRE-RETARDANT	PNL	PANEL
OOTING	PSF	
URRED(ING)		FOOT
AUGE	PSI	POUNDS PER
GALVANIZED	пт	SQUARE INCH PAINT
GRADE, GRADING	PT PTN	
SENERAL		
LUE LAMINATED BEAM		PAVING PAVEMENT
SYPSUM BOARD		QUARRY TILE
IOSE BIBB	QT RAD	
		RUBBER BASE
IEAD	RD	
	REF	REFERENCE
	DEED	DEEDIGEDATOD
IORIZONTAL	REG	REGISTER
HEIGHT HESATING /VENTILATING/	RENG	ROOFING
AIR CONDITIONING	RH	ROOF HATCH
ARDWOOD	RFT	RAFTER
ONE-HOUR FIRE	RM	ROOM
RESISTIVE RATING	RO	ROUGH OPENING
WO-HOUR FIRE	ROS	ROUGH SAWN
RESISTIVE RATING	ROW	RIGHT OF WAY
NSIDE DIAMETER	S	SOUTH
NTERIOR	SC	SOLID CORE
IANITOR	SCH	
IOIST	SEC	
_AMINATE(D)	SF	SQUARE FEET
AVATORY	SHT	SHEET
lGHT	SHTG SIM	
IGHTWEIGHT	SKLT	
OUVER	SPECS	
MATERIAL(S)	SPECS SQ	SPECIFICATION(S) SQUARE
MAXIMUM	SS	STAINLESS STEEL
MECHANIC(AL)	STD	STANDARD
MEDIUM	STL	
MANUFACTURE(R)	STOR	
MINIMUM	STRL	
AISCELLANEOUS	SUSP	
MOLDING, MOULDING MIRROR	SYS	SYSTEM
METAL	Т	TEMPERED
NORTH	T&G	TONGUE AND GROOVE
NEW	THK	THICK(NESS)
NOT IN CONTRACT	TOC	TOP OF CONCRETE
NOMINAL	TOP	TOP OF PARAPET
NOT TO SCALE	TR	TREAD
ON CENTER(S)	TOS	TOP OF SHEATHING
DUTSIDE DIAMETER DWNER FURNISHED OWNER	TOSL	TOP OF SLAB TOP OF STEEL
NSTALLED	TV	TELEVISION
OWNER	TÓW	TOP OF WALL
FURNISHED	TYP	TYPICAL
CONTRACTOR	U/C	UNDERCUT
NSTALLED	UL	UNDERWRITER'S
CONTRACTOR		LABORATORIES
URNISHED	UNO	UNLESS NOTED
CONTRACTOR	.,	OTHERWISE
NSTALLED	V	VINYL
DVERHEAD	VCT	VINYL COMPOSITION
DPENING	VEN	VENEER
OPPOSITE	VERT	VERTICAL
PARALLEL	VEST VTR	VESTIBULE VENT THRU ROOF
POUNDS PER	W	WEST
	WAINS	
	WC	WATER CLOSET
PAINT GRADE	WD	WOOD
	WDW	WINDOW
	W/O	WITHOUT
	WP	WATERPROOFING

UNLESS NOTED OTHERWISE "PROVIDE", "BUILD", "FURNISH" AND/OR "INSTALL" AS INDICATED THROUGHOUT THE DRAWINGS MEANS THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS, EQUIPMENT, AND CONTRACTOR'S SOLE RESPONSIBILITY TO SECURE ANY SEPARATE PERMITS AND INSPECTIONS REQUIRED

CONTRACTOR IS RESPONSIBLE TO ACCEPT DELIVERY OF ALL "OWNER PROVIDED ITEMS" (OPIS) TO BE INSTALLED BY THE GC (INCLUDING OFF LOADING, TAKING INVENTORY, STORING AND SECURING SUCH OPIS THROUGHOUT THE DURATION OF THE WORK). GC TO REPORT ANY SHORTAGES AND/OR VISIBLE DAMAGES

FOR "OPEN STORE" REMODEL PROJECTS ALL AFTER HOUR WORK MUST BE SUPERVISED BY A QUALIFIED SUPERINTENDENT CAPABLE OF READING PLANS AND COMMUNICATING EFFECTIVELY WITH TRADES WHILE ENFORCING STRICT RULES FOR MOVEMENT OF GOODS AND PERSONNEL IN AND OUT OF THE SPACE.

BEFORE TURNOVER / COMPLETION DATE CONTRACTOR TO THOROUGHLY CLEAN ALL WINDOWS INSIDE AND OUT AND, ALL WALL, CEILING AND FLOOR SURFACES INCLUDING LIGHT LENSES, SUPPLY AND RETURN AS GRILLES, ALL TRADES FIXTURES AND OFFICE FURNITURE. CONTRACTOR TO PROVIDE A FINAL WHITE GLOVE INCLUSIVE OF ALL SURFACES DEFINED ABOVE AND ALL MERCHANDISES IMMEDIATELY AFTER AARON'S

CONTRACTOR TO PROVIDE NEW AIR FILTERS AT EACH HVAC UNIT PRIOR TO TURNOVER / COMPLETION DATE. FOR PROJECTS WITH POLISHED CONCRETE CONTRACTOR TO THOROUGHLY CLEAN ALL CILS IN

CONTRACTOR IS SOLELY RESPONSIBLE TO PROTECT ALL FLOOR FINISHES ONCE APPLIED / INSTALLED. FLOOR PROTECTION MUST BE USED AT ALL TIME WHEREVER A SCISSOR LIFT OR OTHER EQUIPMENT WILL BE USED ON TOP OF FLOOR FINISHES. IT'S THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THIS REQUIREMENT. ALL SCISSOR MUST HAVE WHITE TIRES AND BE PROVIDED WITH A LIFT DRIP PAN (AKA LIFT

CONTRACTOR TO PROVIDE ALL MODIFICATIONS TO EXISTING FIRE SUPPRESSION SYSTEM(S) SERVICING THE SPACE AS REQUIRED TO MEET ALL APPLICABLE CODES (INCLUDING LABOR, MATERIALS, SHOP DRAWINGS

TEMPORARY SHOWROOM TO BE CREATED USING OPAQUE PLASTIC DUST CURTAIN, LOCATION TO BE

PROJECT TEAM

AARON'S HOLDINGS, LLC 400 GALLERIA PARKWAY, SUITE 300 ATLANTA, GA 30339 PHONE: (678) 420-3000

ARCHITECT / MEP: KINETIC DESIGN 29833 SANTA MARGARITA PKWY. SUITE 300

RANCHO SANTA MARGARITA, CA 92688 PHONE: (951) 710-6334

PROJECT SUMMARY

SCOPE OF WORK:

INTERIOR REMODEL OF (2) EXISTING TENANT SPACES INTO AARON'S FURNITURE STORE. SCOPE TO INCLUDE NEW BREAKROOM, NEW SECURITY/SERVER ROOM, NEW OFFICES, ADDITIONAL LIGHTING, NEW NON-LOAD BEARING INTERIOR PARTITION WALLS, NEW FINISHES AND FIXTURES. FLOORING AND BASE TO BE REPLACED IN EXISTING RESTROOMS, AND HALLWAY. NEW CEILING TILES AND GRIDS TO BE PROVIDED WHERE INDICATED. EXISTING RESTROOMS TO BE MODIFIED FOR ACCESSIBILITY COMPLIANCE. PLANS FOR FIRE ALARM SHALL BE DESIGNED BY OHIO LICENSED CONTRACTORS/ENGINEERS AND SUBMITTED FOR APPROVAL UNDER A SEPARATE APPLICATION (DEFERRED SUBMITTAL)

APPLICABLE BUILDING CODES:

- ALL PLANS AND WORK FOR THE PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES:
- INTERNATIONAL BUILDING CODE 2015 (IBC 2015) INTERNATIONAL FIRE CODE 2015 (IFC 2015) INTERNATIONAL PLUMBING CODE 2015 (IPC 2015) INTERNATIONAL MECHANICAL CODE 2015 (IMC 2015)
- INTERNATIONAL ENERGY CONSERVATION CODE 2018 (IECC 2018)
- ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2009 OF OHIO
- NATIONAL ELECTRICAL CODE 2017 OF OHIO NATIONAL FIRE ALARM AND SIGNALING CODE 2016 OF OHIO
- STANDARD FOR HIGH CHALLENGE FIRE WALLS, FIRE WALLS, AND FIRE BARRIER WALLS 2015 OF OHIO BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE OF OHIO

DEFERRED APPROVALS

THE FOLLOWING SHALL BE DEFERRED SUBMITTALS UNDER SEPARATE PERMITS

FIRE ALARM SYSTEM EXTERIOR BUILDING SIGNAGE

NOTES: CONTRACTOR TO PROVIDE DESIGN, ENGINEERING, AND PROCESSING THROUGH AGENCIES FOR APPROVAL ON DEFERRED SUBMITTALS.

BUILDING DATA

0 HRS

0 HRS

0 HRS

0 HRS

0 HRS

0 HRS

7,784 SQ. FT. / 60 SQ. FT. =

144 SQ.FT. / 100 SQ. FT. =

419 SQ. FT. / 100 SQ. FT. =

1,724 SQ. FT. / 60 SQ. FT. = 29 PEOPLE

TOTAL =

2HRS (EXISTING)

29850 - 29900 LAKESHORE BLVD, WILLOWICK, OH 44095

ALLOWABLE (S1 SPRINKLER INCREASE): NO (NOT REQUIRED, TENANT SPACE DIVIDED INTO 2 FIRE AREAS OF LESS THAN 8,000 SF EACH. SEE A003 FOR ADDITIONAL INFORMATION.) **GROUP M (MERCANTILE)** 14,000 SF 7,943 SF 7,430 SF

FIRE RATINGS:

PROJECT LOCATION:

CONSTRUCTION TYPE

NUMBER OF STORIES:

TOTAL AREA OF WORK:

SPRINKLER:

OCCUPANCY:

FIRE AREA 1:

FIRE AREA 2:

STRUCTURAL FRAME INTERIOR WALLS BEARING WALLS (EXT. & INT.) NON BEARING WALL & PARTITIONS FLOOR CONSTRUCTION ROOF CONSTRUCTION INTERIOR NON-BEARING FIRE BARRIER WALL:

OCCUPANT LOAD (TABLE 1004.1.2):

SHOWROOM (M USE) PRE-LEASE (M USE) STOCK (S USE) GM OFFICE (B USE) CAM OFFICE (B USE) BREAKROOM (B USE)

128 SQ. FT. / 15 SQ. FT. = **EGRESS REQUIREMENTS:**

EXITS REQUIRED PER SECTION 1006 = 4 EXITS EXITS PROVIDED = 5 EXITS

EGRESS WIDTH:

SHOWROOM + GM OFFICE EXIT #1 & EXIT #2 .2 X 132 =

26.4" REQUIRED 144" PROVIDED

PRE-LEASED + STOCK + CAM OFFICE + BREAKROOM EXIT #3 & EXIT #5 .2 X 51 = 10.2" REQUIRED 72" PROVIDED

RESTROOMS:

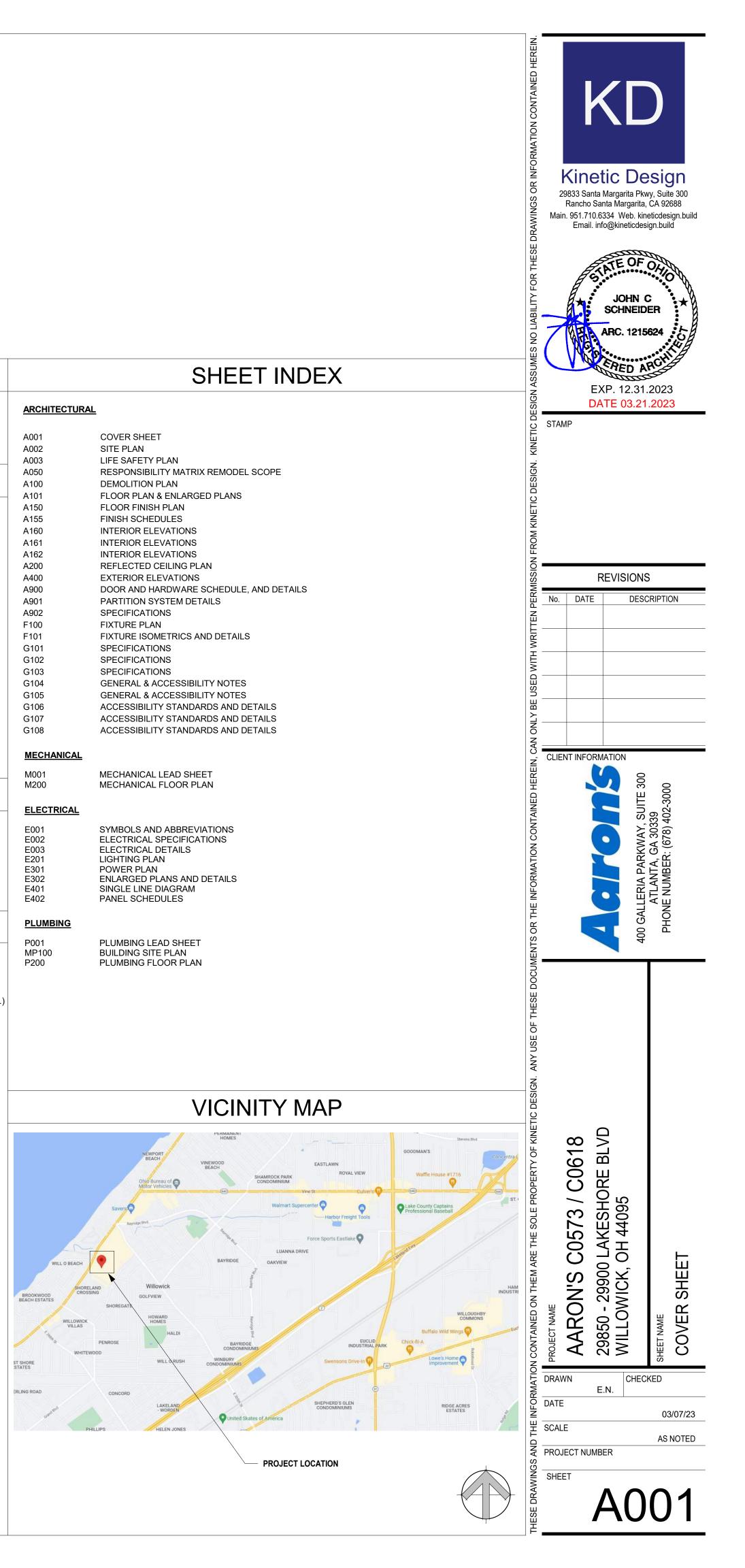
MALE: WC MALE: LAV FEMALE: WC FEMALE: LAV DRINKING FOUNTAIN: SERVICE SINK:

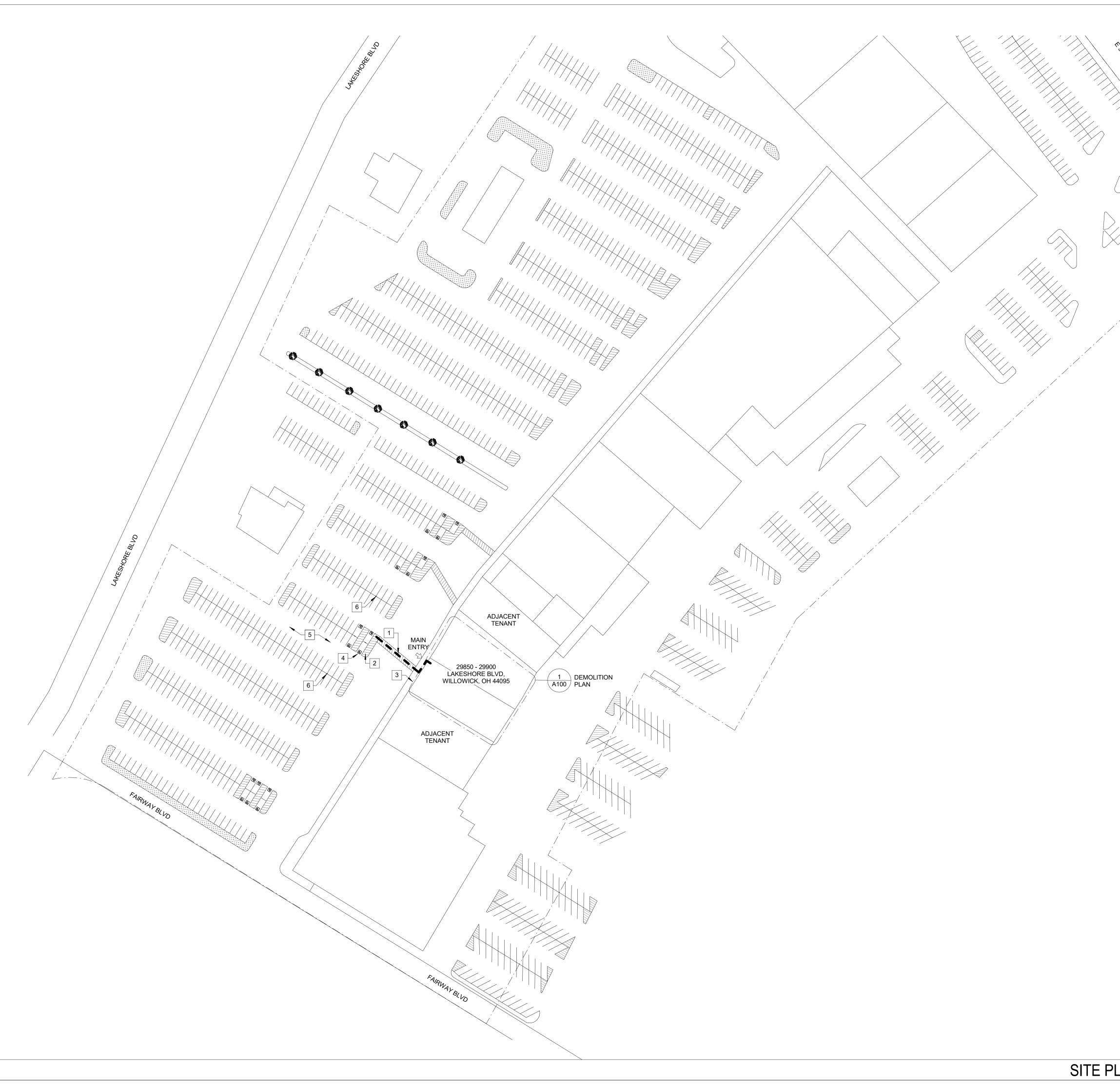
1 REQUIRED PER 500 1 REQUIRED PER 750 1 REQUIRED PER 500 1 REQUIRED PER 750 1 REQUIRED PER 1000 1 REQUIRED

2,334 SQ. FT. / 300 SQ. FT. = 8 PEOPLE 2 PEOPLE 5 PEOPLE 9 PEOPLE 183 PEOPLE

130 PEOPLE

1 PROVIDED 1 PROVIDED 1 PROVIDED 1 PROVIDED 1 PROVIDED (HI-LO) 1 PROVIDED





SITE PLAN NOTES

SITE PLAN SHOWN FOR REFERENCE ONLY. ACCESSIBLE PARKING SPACES, ACCESSIBILITY SIGNANGE, AND PATH OF TRAVEL ARE EXISTING TO REMAIN AND SUBJECT TO FIELD VERIFICATION BY GC.

LEGEND

(E) PROPERTY LINE

(E) PATH OF TRAVEL

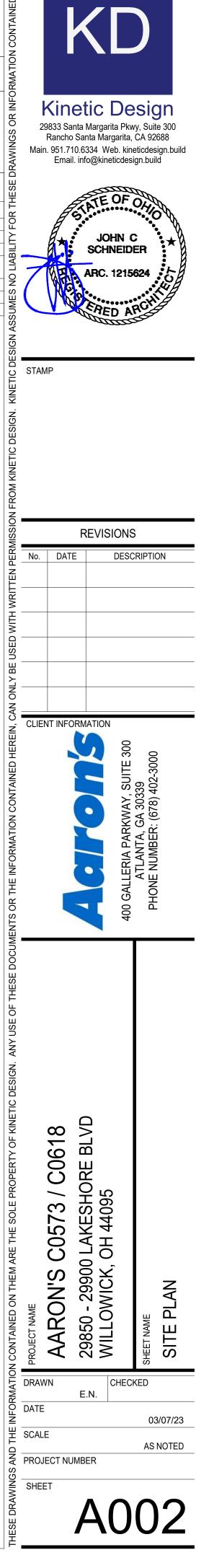
KEYNOTES

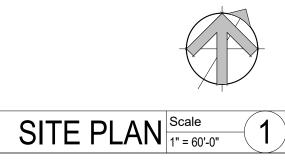
KEYNOTE DESCRIPTION

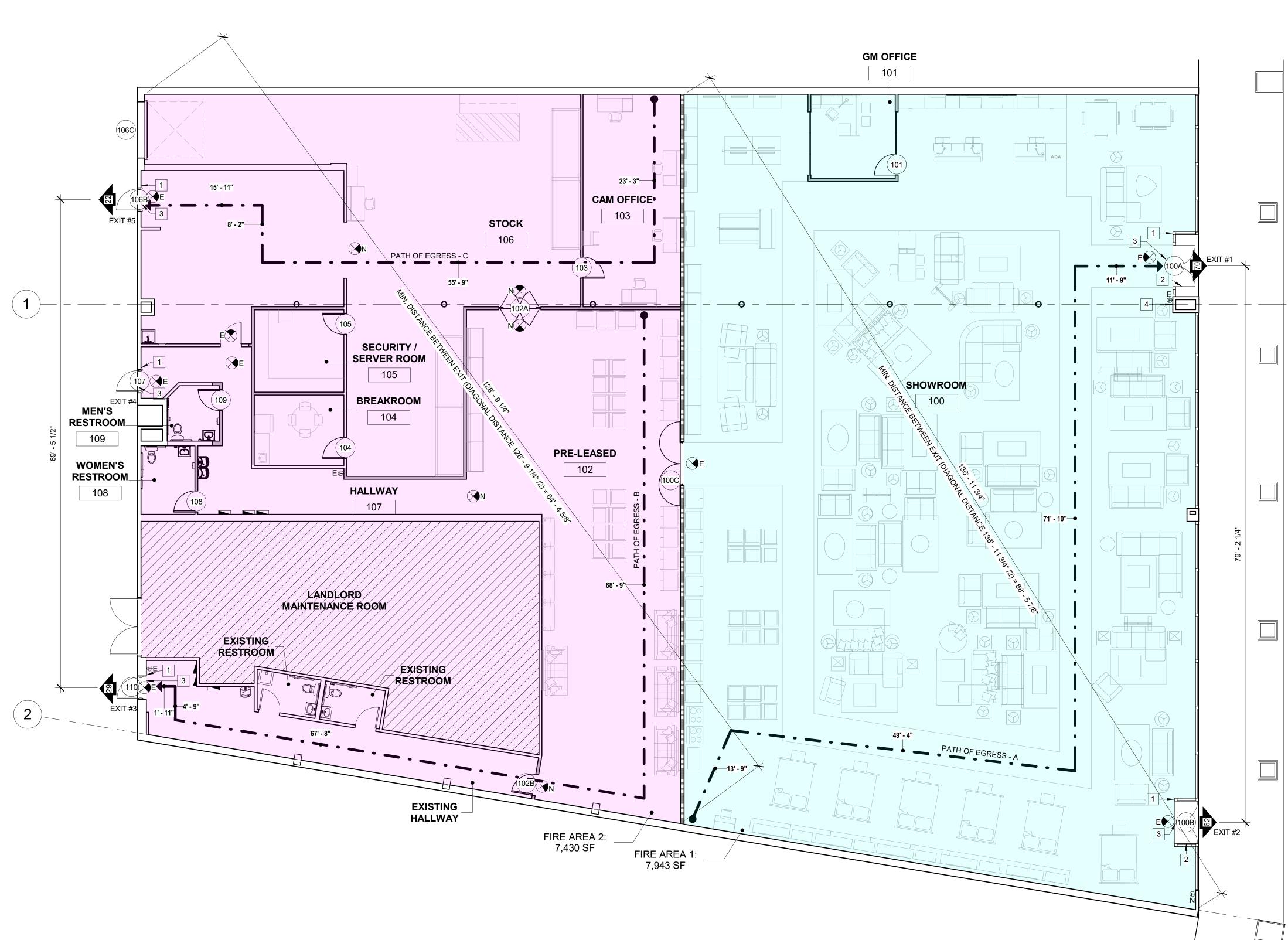
1	EXISTING PATH OF TRAVEL.
2	EXISTING ACCESS AISLE TO REMAIN, TYP.
	EXISTING CONCRETE SIDEWALK TO REMAIN; G.C. TO PRESSURE WASH ENTIRE LENGTH, VERIFY CONDITIONS IN FIELD.
4	EXISTING ACCESSIBLE PARKING SPACES TO REMAIN, TYP.

5 EXISTING ASPHALT PAVING TO REMAIN, TYP.6 EXISTING SITE LIGHT TO REMAIN, TYP.

#

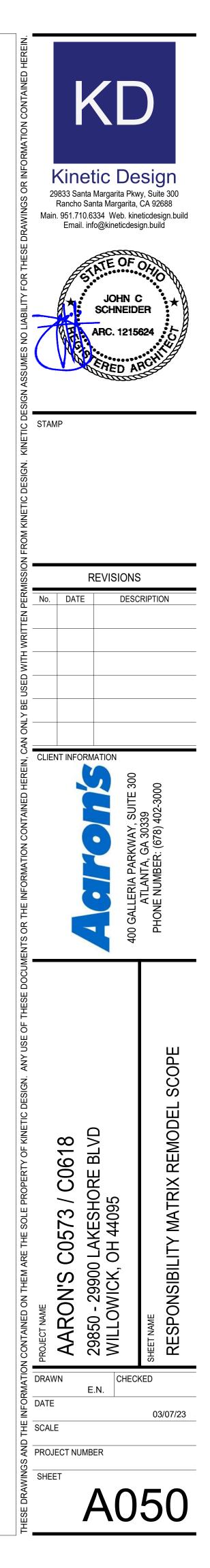


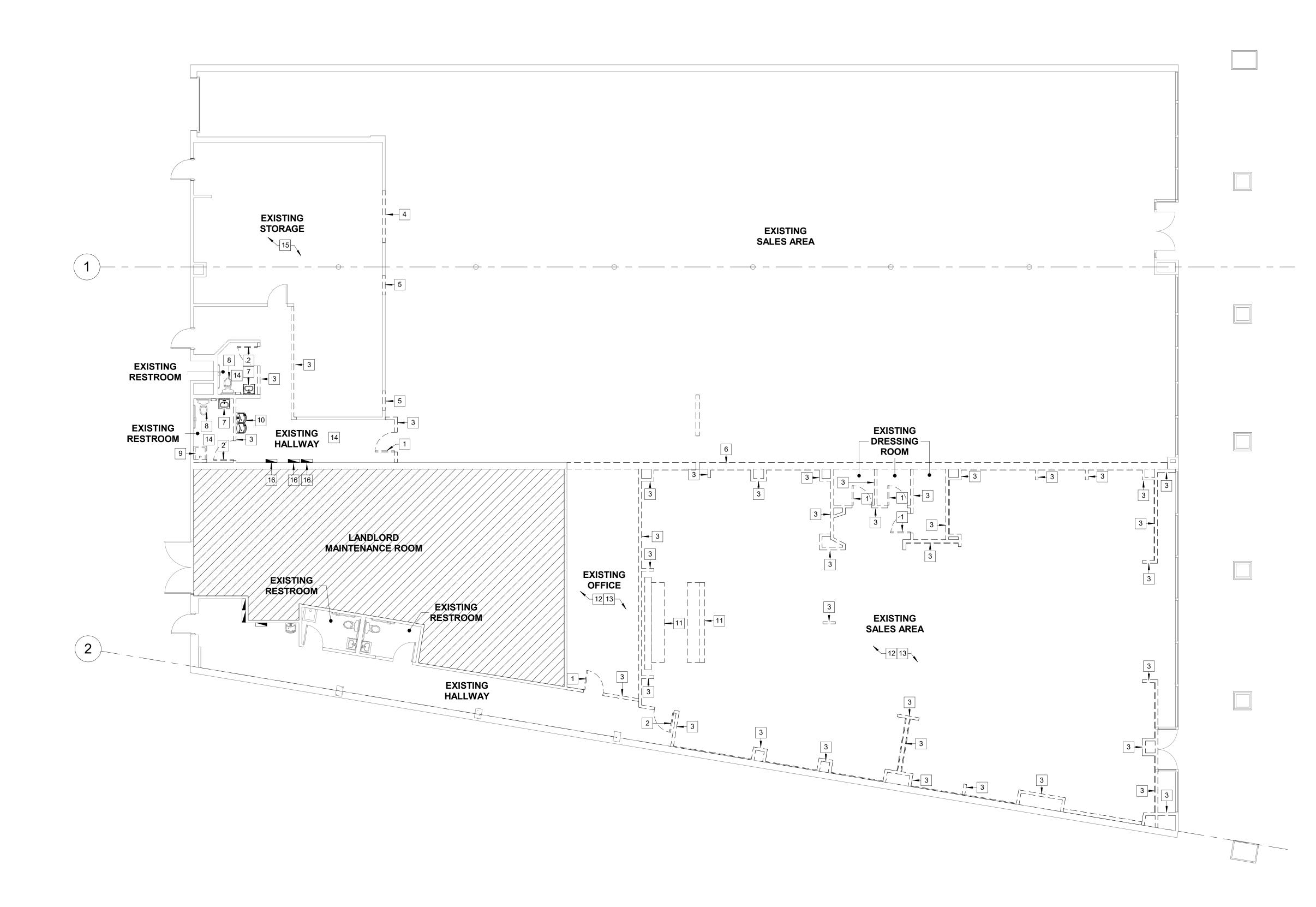




	EXIT	NOTES	HEREIN.			
1. EXIT	SIGNS SHALL BE INTERNALLY	ILLUMINATED.				
		TERNAL SOURCE SHALL HAVE AN	CONTAINED			
	ENSITY OF NOT LESS THAN 5 FC	OT CANDLES (54 LUX). HALL BE LISTED AND LABELED AN				
SHA	LL BE INSTALLED IN ACCORDAN	ICE WITH THE MANUFACTURER'S	27. LAMA			
4. EXIT	SIGNS SHALL BE ILLUMINATED	AT ALL TIMES (1013.5)	ID 227. 201 NOLAN AND AND AND AND AND AND AND AND AND A	Kine	etic De	sign
THA		TO AN EMERGENCY POWER SYS ON OF NOT LESS THAN 90 MIN. IN	ر IEM		a Margarita Pkw Santa Margarita, .6334 Web. kine info@kineticdesi	CA 92688 eticdesign.bu
		OPENABLE FROM THE EGRESS	SIDE (1010.1.9)			grino di d
		OPERATING DEVICES SHALL BE MAX. 48" ABOVE THE FINISHED F	(1010.1.9)	Į.	TATEOF	OHIO
		CKED WHEN BUILDING IS OCCUPI	LOI		JOHN C	
	EGRESS DOOR OPERATION SH).1.9-1010.1.9.12	ALL COMPLY WITH SECTION	ED.		SCHNEID	- *
10. THE	MEANS OF EGRESS, INCLUDIN	G THE EXIT DISCHARGE, SHALL B UILDING SPACE SERVED BY THE I	F 2		ARC. 1215	624 6
11. THE		ION LEVEL SHALL NOT BE LESS T IRFACE.	MEANS SAWUNSSE SAWUNS		CHED A	SSS
NOF EVE	RMALLY BE PROVIDED BY THE P	F EGRESS ILLUMINATION SHALL REMISES' ELECTRICAL SUPPLY. II E, AN EMERGENCY ELECTRICAL S E THE FOLLOWING AREAS:	YSTEM	STAMP		
a.	AISLES AND UNENCLOSED	EGRESS STAIRWAYS IN ROOMS A O OR MORE MEANS OF EGRESS.				
b. c.	BUILDINGS REQUIRED TO H	NENTS AT OTHER THAN LEVEL O	IETIC			
d.	DISCHARGE UNTIL EXIT DIS BUILDINGS REQUIRED TO H INTERIOR EXIT DISCHARGE	CHARGE IS ACCOMPLISHED FOR AVE TWO OR MORE EXITS. ELEMENTS, AS PERMITTED IN SE	CTION			
0			IISO		REVISIONS	\$
e.		EQUIRED BY SECTION 1010.1.6 FO ECTLY TO THE EXIT DISCHARGE		No. DATE	DESC	RIPTION
WIT ACC ART GLA	H NATURAL LIGHT BY MEANS O ORDANCE WITH SECTION 1205. IFICIAL LIGHT IN ACCORDANCE	AN OCCUPANCY SHALL BE PROV EXTERIOR GLAZED OPENINGS II 2 OR SHALL BE PROVIDED WITH WITH SECTION 1205.3. EXTERIOR RECTLY ONTO THE PUBLIC WAY (RDANCE WITH SECTION 1206.	DR LINA			
	MEANS OF EGRESS SYSTEM S 7'-6". MINIMUM.	HALL MAINTAIN A CLEAR CEILING	BE U			
	KEYN	IOTES	CAN ONLY			
#		E DESCRIPTION	HEREIN, O	CLIENT INFOR		
1 (N) TA	CTILE EXIT SIGN				E 300	000
3 PROV		ESSIBILITY /E DOOR: "THIS DOOR TO REMAIN	UNLOCKED CONTAINED		SUITE	A 30339 (678) 402-3000
	N THIS SPACE IS OCCUPIED." INTERIOR SIGNAGE STATING "N	IAXIMUM CAPACITY: 183 PERSONS	S" Z		MAY	A 303 (678)
		ATH TOTAL	INFORMATIO		PARKWAY	TA, G BER:
PA	TH OF EGRESS - RUN A	TRAVEL DISTANCE 146' - 7 1/2"	NFORI			TLAN
	B C	143' - 1" 103' - 0 1/2"	Ľ		400 GALLERIA	ATLANTA, (PHONE NUMBER
		DING CODE 2015, MAXIMUM EXIT (M OCCUPANCY, WITHOUT SPRIN			400 0	H
SYSTEM).	200' - 0", ∴ OKAY.	IN OCCUPANCY, WITHOUT SPRIN				
			Docu			
	LE	GEND	THESE			
ROOM NA	ME		E OF T			
###	ROOM TAG		ANY USI			
	(N) NON-RATED PART	TITION WALL	DESIGN. AN			
	(E) WALL TO REMAIN		OF KINETIC D	ŝ	D	
	(N) 2HR FIRE-BARRIE LANDLORD.	R PER CODE TO BE PROVIDED BY	PROPERTY OF	C0618	0 LAKESHORE BLVD , OH 44095	
	NUMBER OF PEOPLE	EXITING	SOLE PRO	C0573 / (ESHO 4095	
— •••	MAXIMUM EXIT ACCE 200 FT (M OCCUPANO	INTERNATIONAL BUILDING CODE SS TRAVEL DISTANCE FOR BUILD Y, WITHOUT SPRINKLER SYSTEM EL DISTANCE ON EACH AREA		S C05	900 LAK X, OH 4	
F.E.	- ORDINARY HAZARD 2-A RATED SINGLE E THE MAXIMUM TRAV EXTINGUISHER IS 75 - TO BE MOUNTED AT	EXTINGUISHER - /EL DISTANCE TO	ECTION CONTAINED ON THE INFORMATION CONTAINED ON THE INFORMATION	PROJECT NAME AARON'S	29850 - 29900 WILLOWICK, C	SHEET NAME I IFF SAFFT
	EXIT SIGN W/ BATTEF OF TRAVEL	RY BACKUP, ARROW INDICATE DIF	RECTION		CHECH E.N.	
	FIRE AREA 1: 7,943 SF	-		DATE		03/07/ AS NOT
	FIRE AREA 2: 7,430 SF	-	WINGS AND	PROJECT NUM	IBER	
			E DRAWING		A0	\mathbf{n}
			THESE			U L

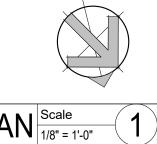
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		BY INS	TALLED BY) BY		ED BY			F		BY		
DIVISION OF WORK AND RESPONSIBILITY	ANDLORD	AARON'S ANDLORD	ONTRACTOR		DIVISION OF WORK AND RESPONSIBILITY	ANDLORD	AARON'S	ANDLORD	AARON'S	COMMENTS	DIVISION OF WORK AND RESPONSIBILITY	ANDLORD	ONTRACTOF	AARON'S	ONTRACTOF	COMMENTS
DIVISION 1 - GENERAL REQUIREMENTS	- 0		0		DIVISION 4 - MASONRY	- 0		- 0			DIVISION 12 - FURNISHINGS					
01100 DEFINITION OF TERMINOLOGY					04100 CONCRETE UNIT MASONRY	X		x			12100 SALES/AREA TRADE FIXTURES			X	X	
01130 CONSTRUCTION DOCUMENTS		x		PREPARED IN ACCORDANCE WITH AARON'S INTERIOR DESIGN DOCUMENTS AND AARON'S	DIVISION 5 - METALS						12110 CASH WRAP COUNTERS			x	x	CONDUIT AND DEVICES PREINSTALLED IN MILLWORK. ELECTRICAL TO PROVIDE
01200 AARON'S NATIONAL ACCOUNTS				PROTOTYPE DWGS.	05100 STRUCTURAL STEEL FRAMING	X		X			12200 OFFICE FURNITURE			×	X	CONDUCTOR AND CONNECTION.
					05200 ROOF DECK/ BAR JOIST	X		X			12300 LOCKERS			×	X	
01300 AARON'S FURNISHED EQUIPMENT/FIXTURES 01400 PROJECT MANAGEMENT		×	^		05300 STAIRS	X		×		ONLY IF APPLICABLE OR REQUIRED BY CODE	12400 BREAK ROOM CABINETRY			x	x	GENERAL CONTRACTOR TO PROVIDE FAUCET AND SINK
		~		GENERAL CONTRACTOR TO SUBMIT CHANGE	ANDRAILINGS	X		~			12500 TOILET COMPARTMENTS /		x		x	IF APPLICABLE ONLY
01410 CHANGE ORDER PROCESS		x		ORDER IN ACCORDANCE WITH AARON'S REQUIREMENTS. ALL CHANGE ORDERS MUST BE APPROVED IN WRITING BY AARON'S PRIOR TO	DIVISION 6 - WOOD AND PLASTICS						12500 PARTITIONS 12520 TOILET ROOM MIRRORS		X		X	
				STARTING THE WORK.	06000 ROUGH CARPENTRY	x		x		PER FOREST STEWARDSHIP COUNCIL'S SUSTAINABLE DESIGN CRITERIA	12530 PAPER TOWEL DISPENSERS			X	X	
01415 CONSTRUCTION PROGRESS DOCUMENTATION	X				06110 CURBS FOR HVAC UNITS	x		x			12550 LAVATORY DECKS WITH BOWLS		X		X	
01420 PHOTOGRAPHIC DOCUMENTATION	X				06120 BLOCKING	x					12560 LAVATORY DECK FAUCETS		X		X	
01435 REQUEST FOR INFORMATION	X				06200 FINISH CARPENTRY	х		x			12570 TOILET ROOM ACCESSORIES 12580 GRAB BARS		X		X X	
01440 REQUEST FOR SUBSTITUTIONS	X				DIVISION 7 - THERMAL & MOISTURE PRO	TECTION					12600 INTERIOR DOOR/ROOM DESIGNATION SIGNAGE		X		X	
01445 SUBMITTAL PROCEDURES	Х				07100 CONCRETE SLAB INSULATION	X		X			12700 ADA SIGNAGE		X		X	
01450 CLOSE OUT PROCEDURES	X				07200 WALL INSULATION	X		X			12710 EXTERIOR SIGNAGE		X		X	ID NUMBER REQUIRED AT EACH ROOFTOP UNIT
01455 POSSESSION DAY PROCESS	x				07210 SOUND ATTENUATION INSULATION	X		X			DIVISION 13 - SPECIAL CONSTRUCTION		+ +			
01460 CLOSE OUT DOCUMENTS	x			IN ELECTRONIC FORMAT	07300 MEMBRANE ROOFING	X		X			13200 FIRE ALARM SYSTEM DESIGN AND INSTALLATION		X		x	
01465 OPERATION AND MAINTENANCE DATA	Х			IN ELECTRONIC FORMAT	07350 SEALANTS AND CAULKING	X		X			DIVISION 14 - CONVEYING SYSTEMS				- + +	
01470 METERS AND TEMPORARY UTILITIES	Х		x		07400 FINISHING SYSTEM / STUCCO	X		X			14300 MATERIAL LIFTS		X		X	IF APPLICABLE ONLY
01475 DEMONSTRATION AND TRAINING	Х				08100 HOLLOW METAL AND WOOD DOORS AND FRAMES	x		x			DIVISION 15 - MECHANICAL					MODIFICATIONS TO EXISTING SYSTEMS AS
01480 CERTIFICATION OF OCCUPANCY	Х				08200 DOOR HARDWARE	x		x			DESIGN		X		X	REQUIRED
					OVERHEAD COIL DOOR	x		x		EXISTING TO REMAIN	15110 FIRE PROTECTION SHOP DRAWINGS/PERMIT		X		X	MODIFICATIONS TO EXISTING SYSTEMS AS REQUIRED
02100 SITE SURVEYS / INVESTIGATION REPORTS		X			(EXTERIOR)		×	×		FOR ALL FUNCTIONING EXTERIOR GLASS DOORS	15120 FIRE PROTECTION SYSTEM INSTALLATION		x		x	MODIFICATIONS TO EXISTING SYSTEMS AS REQUIRED
02110 GEOTECHNICAL REPORT				N/A	GRILLES (INTERIOR)			×		TORALL FUNCTIONING EXTERIOR GLASS DOORS	15200 HVAC ROOFTOP PACKAGE EQUIPMENT		x		x	
02150 AARON'S COMING SOON SIGN		X	x	AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS	(INTERIOR)		X	X			15205 HVAC SECURITY GRILLS		X		X	
02200 TEMPORARY FENCING AND BARRICADES	X		x		08400 SECURITY WINDOW GRILLS		X	X		FOR ALL EXTERIOR WINDOWS	15210 CO2 SENSORS		x		X	
02250 DEMOLITION AND CLEANING	X		x		AND WINDOW FRAMES	X		X			15230 THERMOSTATS		X		X	
02300 LANDSCAPING AND ACCESSORIES	X		x		08510 GLASS (INTERIOR AND OFFICE) 08520 STOREFRONT GLASS WINDOW	X		X			15240 GAS UNIT HEATERS		X		X	RELOCATE EXISTING
02311 HARDSCAPING	Х		x	ONLY IF APPLICABLE	DIVISION 9 - FINISHES	X		X			15250 DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, ETC.		X		X	
02325 IRRIGATION SYSTEM	X		x		09100 PROTECTIVE WALL COVERINGS	x		X		HI-DENSITY FIBERBOARD	15260TEST AND BALANCE REPORTS15300ROOFTOP EXHAUST UNITS		X X		X X	
02375 CHAIN LINK FENCE	X		x	ONLY IF APPLICABLE	09110 SANITARY WALL COVERING	x		x		IMPACT RESISTANT PLASTIC COVERED FIBERBOARD	15310 INTERIOR EXHAUST FANS		X		X	
02380 EROSION CONTROL	X		x		09120 ACOUSTICAL CEILINGS	x		x			15400 GAS SERVICE AND METER					EXISTING TO REMAIN
02400 EXCAVATION & BACKFILL	X		x	PER GEOTECH REPORT	09200 PAINT	X		x			15410 PLUMBING PIPING		X		X	
02420 GRADING	X		x		09210 CONCRETE SEALER	x		x		NON SALES AREAS ONLY	15500 WATER SYSTEMS		X		X	
02450 SITE UTILITIES (PHONE, GAS, POWER)	x		x	EXISTING SITE UTILITIES TO REMAIN	09300 PORCELAIN TILE	x		x		PROVIDE MARBLE THRESHOLD AT ALL TILE TRANSITIONS	METER		X		X	
02500 SANITARY / STORM SEWER	Х		x		09400 TRANSITION STRIPS		x	x			15600 SANITARY SYSTEM		X		X	
02600 COMPACTION TESTING	х		x		09410 VINYL TILES		x	x		TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS	PRESSURE ZONE DEVICES)		X		X	
02625 FIRE HYDRANT(S)	х		x	ONLY IF APPLICABLE	09420 RUBBER FLOORING		x	x		TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS	15710 BACKFLOW PREVENTER 15720 PLUMBING FIXTURES		X X		X X	EXISTING TO REMAIN
02700 RETAINING WALL(S)	х		x		09500 CARPET / CARPET TILE		x	x		TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS	15730 WATER HEATER		X		x	
02725 BOLLARDS	х		x		09510 FLOORING ADHESIVES (CARPET & VCT)		x	x			15800 ENERGY MANAGEMENT SYSTEM SENSORS AND WIRING			x		X EXCLUDES SENSOR WIRING TO THERMOSTAT INTEGRAL WITH SWITCHGEAR PACKAGE
02845 TRAFFIC CONTROL	х		x		09511 FLOORING ADHESIVES (CERAMIC TILE)		x	x						x		x
02850 MARKING & STRIPING (PARKING LOT)	х		x		09520 COVE BASE		x	x			15810 SYSTEM FINAL CERTIFICATION DIVISION 16 - ELECTRICAL					
02875 SITE UTILITIES	X		x	EXISTING SITE UTILITIES TO REMAIN	AWNINGS/STOREFRONT		x	x			16100 ELECTRICAL DISTRIBUTION PANELS		x		X	EXISTING TO REMAIN
02900 DUMPSTER ENCLOSURE	X		x	ONLY IF APPLICABLE	09600 CANOPY 09700 FLOOR CLEANING	x		x			16110 ELECTRIC METER					
02950 CLEANING	X		x		09970 POLISHED CONCRETE FLOOR FINISH		x	x			OVERHEAD CONDUITS AND					
DIVISION 3 - CONCRETE					DIVISION 10 - SPECIALTIES						16150 WIRING FROM TRANSFORMER (LOCAL UTILITY PROVIDER) TO AARON'S SWITCHGEAR		X		X	EXISTING TO REMAIN
03100 10 MIL MOISTURE VAPOR BARRIER	X		x		10200 FIRE EXTINGUISHERS	X		x		PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS	16200 ELECTRIC UNIT HEATER		X		X	
03150 FOUNDATION & FOOTINGS	X		x	PER STRUCTURAL DRAWINGS	10300 EXTERIOR AARON'S SIGNS		x		X	BY AARON'S SIGN VENDOR INCLUDING PERMITS. GC TO PROVIDE POWER AND FINAL	16320 POWER RECEPTACLES		x		x	
03200 INTERIOR CONCRETE SLAB	X		X		10310 INTERIOR SIGNS AND		~ ~			CONNECTIONS GENERAL CONTRACTOR TO PROVIDE	16400 INTERIOR LIGHTING FIXTURES AND SCONCE LIGHTS			x	x	
03210 CMU CONCRETE INFILL	X		X		GRAPHICS					WALLPAPER; ALL OTHER ITEMS BY OWNER	16410 LAMPS FOR INTERIOR LIGHTING FIXTURES			x	x	
03220 CONCRETE CURING BLANKETS	x		X		10320 EXTERIOR WINDOW GRAPHICS				×		16420 EXIT SIGNS		x		X	
03300 PAVING	X		X		10420 CORNER GUARDS DIVISION 11 - EQUIPMENT			X			16430 EXTERIOR BUILDING LIGHTING FIXTURES		x		X	
03400 SIDEWALK AND ADA RAMP	x				11110 DOCK SEALS AND OVERHEAD CANOPY	x		X		ONLY IF APPLICABLE	PARKING LOG LIGHT POLES					
03500 CURBS AND GUTTERS	x				11120 DOCK BUMPERS	x		X		ONLY IF APPLICABLE	16480 INCLUDING UNDERGROUND CONDUITS AND WIRING		×		X	5 FOOT CANDLES MINIMUM
03550 PARKING CURBS	Х		X		11130 DOCK DOOR JAMB GUARDS	x		x		ONLY IF APPLICABLE	16500 DOOR BELLS AND BUZZERS		X	~	X	
03560 LIGHT POLE BASES	X		Х		11140 TRUCK RESTRAINTS	x		X		ONLY IF APPLICABLE	16600 BURGLAR ALARM SYSTEM EXTERIOR BUILDING SIGN			X		X GC TO COORDINATE INSTALLATION
03600 TESTING	×		x		11400 PHONE/SPEAKER SYSTEM		x		×	GC TO COORDINATE INSTALLATION	16700 CONDUIT, WIRING, DEVICES AND FINAL CONNECTION		X		X	GC TO COORDINATE INSTALLATION WITH AARON'S SIGN VENDOR

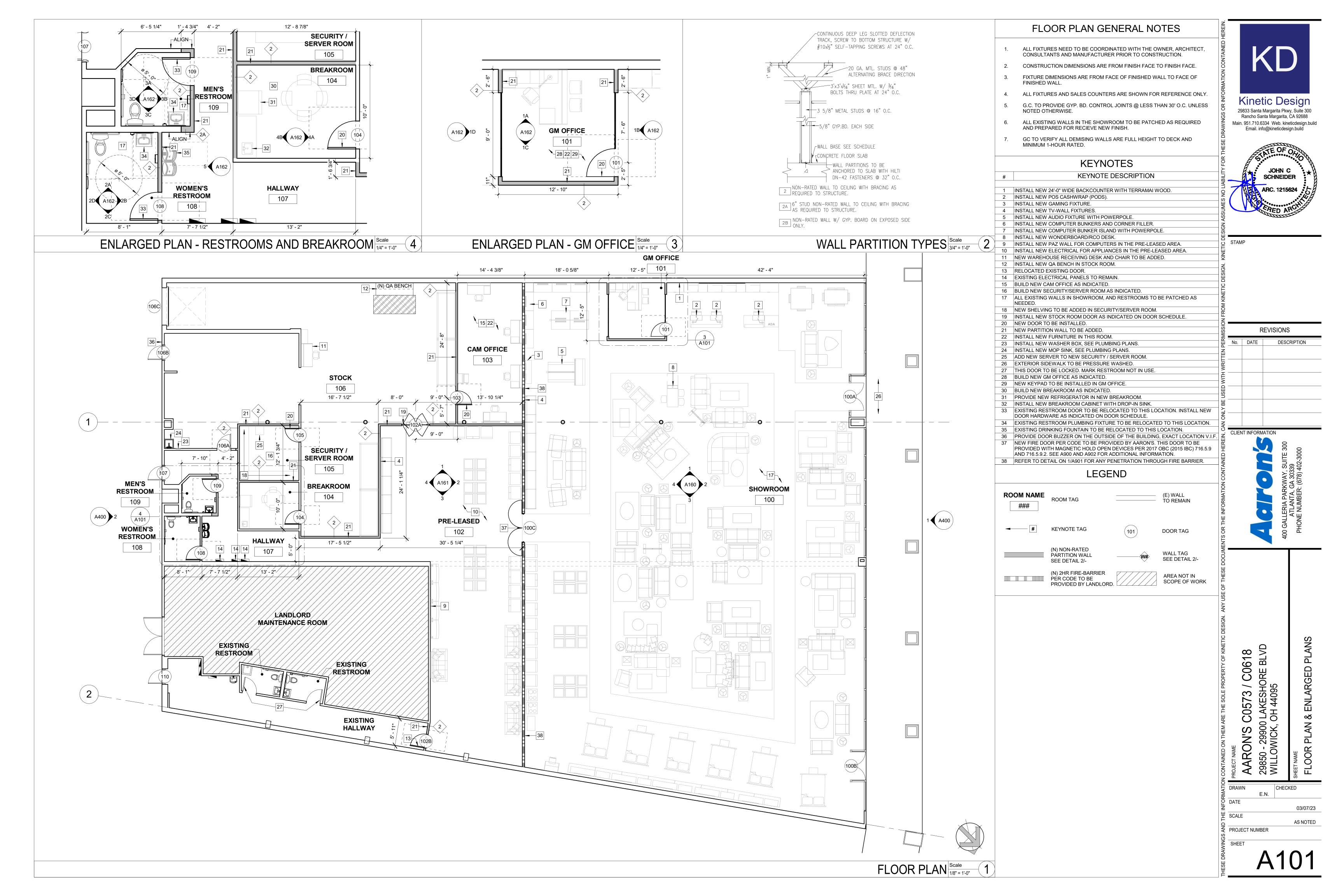


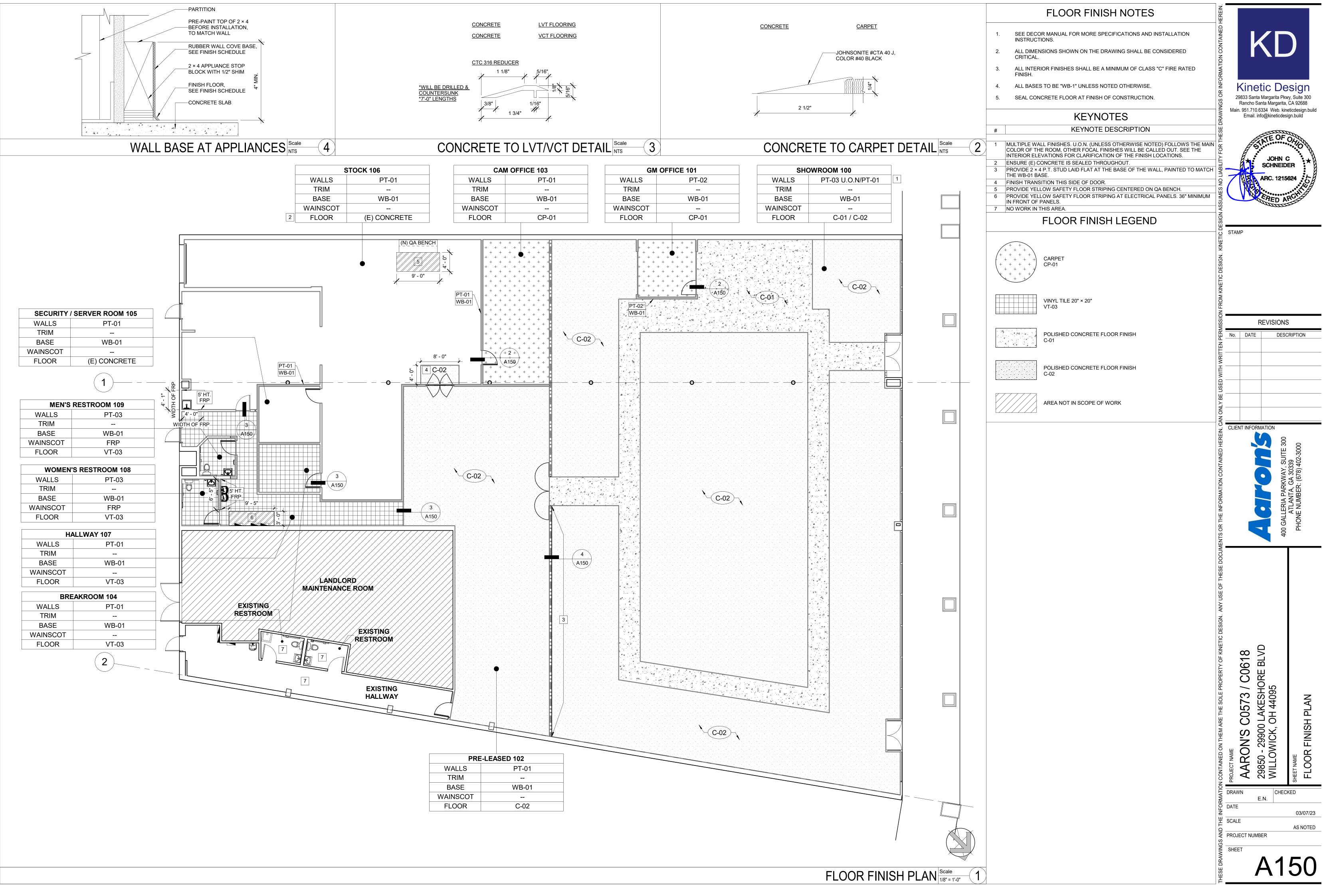


DEMOLITION PLAN Scale 1/8" = 1'-0"

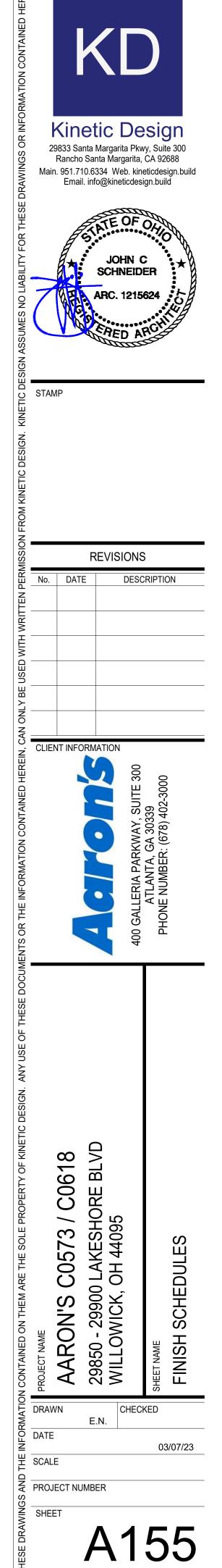
	GENERAL DEMOLITION NOTES	HEREIN.			
1.	PRIOR TO BIDDING, THE CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL INSPECT ALL AREAS IN WHICH THE WORK IS TO BE PERFORMED AND FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.	DRAWINGS OR INFORMATION CONTAINED HEREIN Wair			
2.	REMOVE EXISTING FINISHES WHERE INDICATED AND PREPARE ALL EXISTING SURFACES AS REQUIRED TO INSTALL THE NEW FINISHES SCHEDULES ON NEW FLOOR PLAN.	RMATION			
3.	ALL EXISTING BUILDING UTILITIES SHALL REMAIN IN OPERATION DURING CONSTRUCTION. ANY TEMPORARY SUSPENSION OF SERVICES SHALL BE COORDINATED AND APPROVED BY THE OWNER.		9833 San	etic De Ita Margarita Pkv	vy, Suite 300
4.	IN ORDER TO INSTALL SOME OF THE NEW WORK (STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL), IT WILL BE NECESSARY FOR THE CONTRACTOR AND THEIR SUB-CONTRACTORS TO REMOVE AND REPLACE (OR REFINISH) EXISTING CEILINGS, WALLS, OR FLOORS IN OTHER AREAS OF THE BUILDING NOT SHOWN ON THESE DOCUMENTS. THE CONTRACTOR SHALL INCLUDE ALL SUCH COSTS IN THEIR BASE BID, WHETHER SHOWN ON THESE PLANS OR NOT.	THESE	n. 951.710	Santa Margarita, 0.6334 Web. kin info@kineticdes	eticdesign.build
5.	THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE IN THE COURSE OF THE DEMOLITION WORK.	BILITY FOR		JOHN (SCHNEID	<u> </u>
6.	DO NOT CUT ANY STRUCTURAL ELEMENTS (E.G. CONCRETE SLAB, COLUMN, BEAMS) WITHOUT APPROVAL AND DETAILS FROM ARCHITECT, STRUCTURAL ENGINEER, LANDLORD AND OWNER.		8 EG	ARC. 1215	624 5 A
7.	CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION BARRIER AS NECESSARY FOR SEPARATION OF CONSTRUCTION AREAS AND ADJACENT OWNER OCCUPIED AREAS.	SN ASSUMES	V	ERED A	ACT
8.	CONTRACTOR TO REMOVE ABANDONED ITEMS SUCH AS ABANDONED PIPING, CONDUIT, WIRING, DUCTWORK, ETC. PATCH AND REPAIR SURROUNDING SURFACES AS REQUIRED.		1P		
9.	ENVIOLIES ITEMS AND ENTUDES NOT SOLVEDUI ES ESD DEMOLITION	N N			
10.	WHERE EXISTING WORK TO BE REMOVED PENETRATES EXISTING PARTITIONS TO REMAIN, THE PARTITION SHALL BE PATCHED TO MEET OR EXCEED EXISTING FIRE RATING. FINISH TO MATCH EXISTING OR AS NOTED ON FINISH SCHEDULE.	FROM KINETIC DESIGN.			
11.	AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR				
			DATE	DESC	CRIPTION
12.	CONTRACTOR TO FIELD VERIFY EXISTING PIPES AND CONDUITS, AND TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.	BE USED WITH WRITTEN			
	KEYNOTES				
#	KEYNOTE DESCRIPTION				
1	EXISTING DOOR TO BE REMOVED.				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	EXISTING WALL TO BE REMOVED. GC VERIFY IF ANY OF THE WALLS BEING REMOVED ARE POTENTIALLY STRUCTURAL AND NOTIFY OWNER AND ARCHITECT IMMEDIATELY. REMOVE A PORTION OF EXISTING WALL FOR A NEW WALL OPENING. REMOVE A PORTION OF EXISTING WALL FOR A NEW DOOR OPENING. REMOVE WALL UP TO THE EXISTING CEILING HEIGHT ON BOTH SIDES OF THE WALL, SEE REFLECTED CEILING PLAN FOR ADDITIONAL DETAILS. EXISTING PLUMBING FIXTURE TO BE RELOCATED. EXISTING PLUMBING FIXTURE TO BE CLEANED FOR RE-USE. EXISTING MOP SINK TO BE REMOVED. EXISTING DRINKING FOUNTAIN TO BE RELOCATED. EXISTING CASEWORK TO BE REMOVED. EXISTING FLOORING IN SALES AREA TO BE REMOVED, FLOOR TO BE CLEANED AND PREPPED FOR NEW FINISH. EXISTING BASE TO BE REMOVED. EXISTING FLOORING AND COVE BASE IN HALLWAY AND RESTROOMS TO BE REMOVED. EXISTING CONCRETE FLOORING TO BE CLEANED FOR SMOOTH FINISH.	OR THE INFORMATION CONTAINED HEREIN, CAN	NT INFO	400 GALLERIA PARKWAY, SUITE 300	ATLANTA, GA 30339 PHONE NUMBER: (678) 402-3000
		OF THESE			
		. ANY USE			
-	# KEYNOTE TAG	IC DESIGN			
	AREA NOT IN SCOPE OF WORK	PROPERTY OF KINETIC	C0573 / C0618	29850 - 29900 LAKESHORE BLVD WILLOWICK, OH 44095	
		SOLE PROP	73 / C	ESHOF 1095	
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		I CONTAINED C PROJECT NAME	AARON'S	850 LLO	SHEET NAME DEMOLITION
		AND THE INFORMATION CONTAINED ON THEM ARE THE Dad 25 Dat 27 Dat 27 Date 27 Dat	₹	29 VI	SHEET
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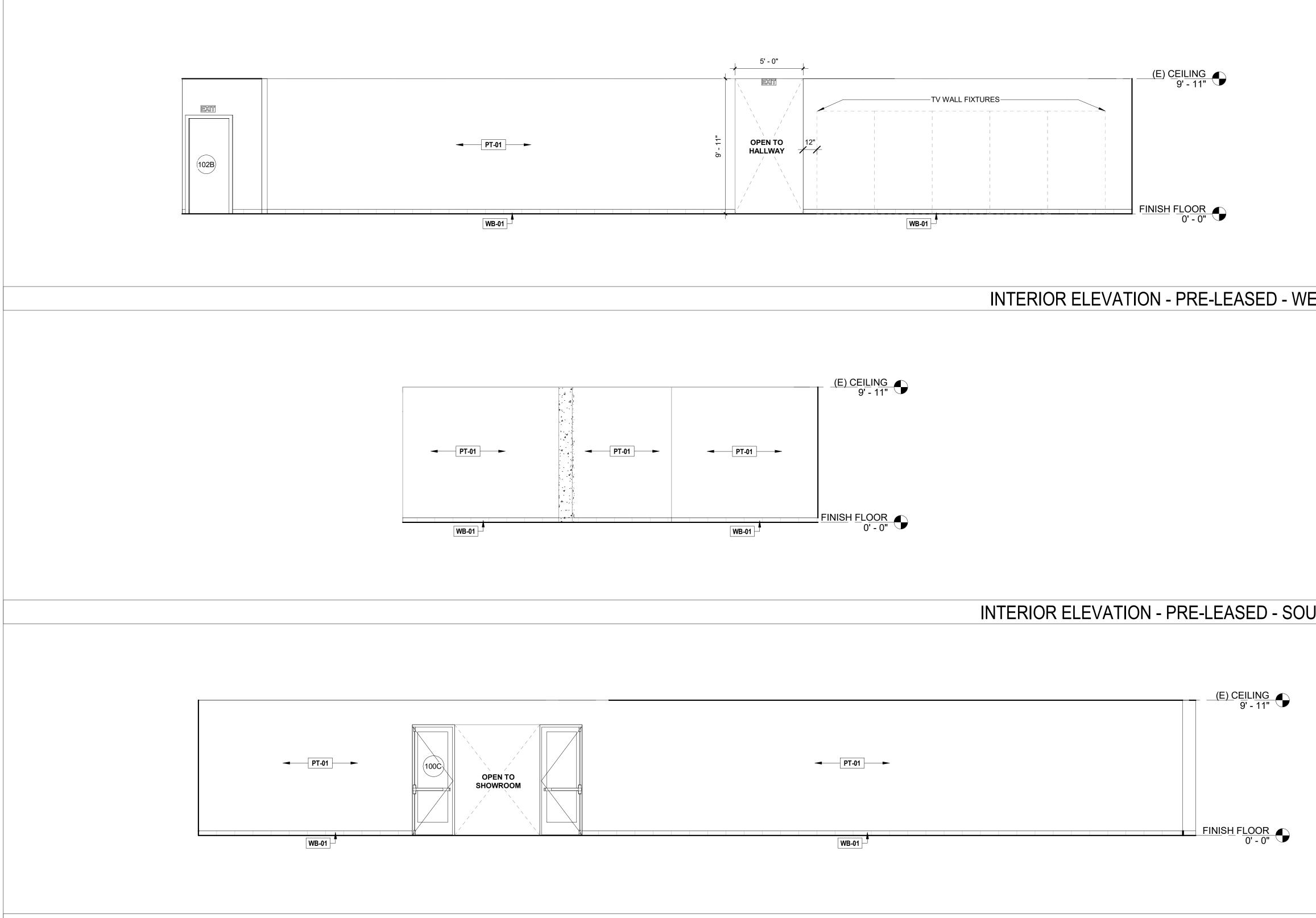


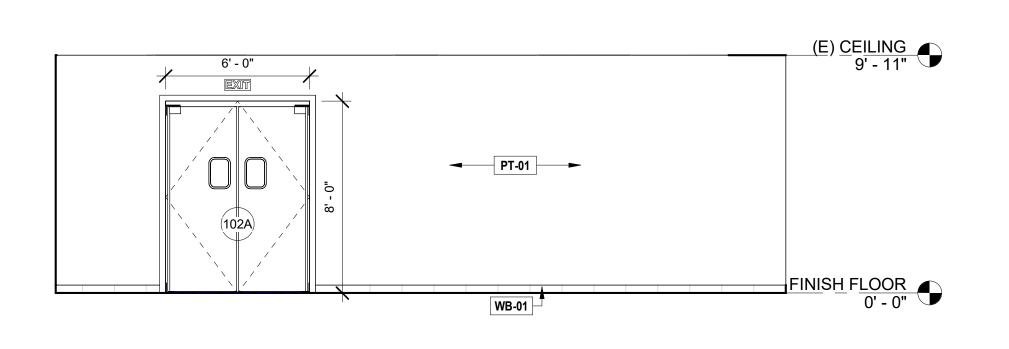
				ROO	M FINISH LEGEND								ROO	M FINISH LEGEND			
CODE	DESCRIPTION	PRODUCT / MODEL #	COLOR / FINISH	SIZE / COVERAGE	MANUFACTURER	SOURCE	LOCATION	NOTES	CODE	DESCRIPTION	PRODUCT / MODEL #	COLOR / FINISH	SIZE / COVERAGE	MANUFACTURER	SOURCE	LOCATION	NOTES
C-01	POLISHED CONCRETE	TBD	DARK GRAY - AISLE	-	ROCKERZ, INC. 100 COMMONWEALTH DRIVE WARRENDALE, PA 15095 T: 724.553.3854 WWW.ROCKERZINC.COM	CONTACT: ROBERT SMITH ROCKERZ, INC. T: 724.553.3854 C: 724.612.6520 RSMITH@ROCKERZINC.COM	SALES FLOOR DRIVE AISLES	OWNER PROVIDED	WB-02	WALL BASE	JOHNSONITE BASEWORKS	TB1 PEPPERCORN - TOE LESS	4"	JOHNSONITE 30000 AURORA ROAD SOLON, OH 44139 T: 800.899.8916 F: 440.543.8920 WWW.JOHNSONITE.COM	CONTACT: STEPHANIE ELLIOTT TANDUS CENTIVA C: 404.998.2872 SBELLIOTT@TANDUS-CENTIVA.COM	WHEREVER WC-01 IS CALLED OUT	OWNER PROVIDED
C-02	POLISHED CONCRETE	TBD	NATURAL POLISHED - FIELD	-	ROCKERZ, INC. 100 COMMONWEALTH DRIVE WARRENDALE, PA 15095 T: 724.553.3854 WWW.ROCKERZINC.COM	CONTACT: ROBERT SMITH ROCKERZ, INC. T: 724.553.3854 C: 724.612.6520 RSMITH@ROCKERZINC.COM	GENERAL SALES AND PRE-LEASE FLOORS	OWNER PROVIDED	WC-01	ENGINEERED WOOD	TERRAMAI - MC WALNUT	MC WALNUT ENGINEERED 5" F/P - POLY		TERRAMAI 8400 AGATE ROAD WHITE CITY, OR 957503 T: 541-973-2301 WWW.TERRAMAI.COM	CONTACT: KEVIN KOWAL TERRAMAI 717.598.3173		
CP-01	CARPET TILE	SPACE WORX 5T124 CENTRIC TILE	RAVEN 17505	24" X 24"	SHAW INDUSTRIES, INC. 616 E. WALNUT AVE DALTON, GA 30720 T:800.441.7429 WWW.SHAWCONTRACT.COM	CONTACT: JESSA FINNEGAN SHAW INDUSTRIES, INC. T: 404.558.1806 JESSA.FINNEGAN@SHAWINC.COM	OFFICE	OWNER PROVIDED	ET-01	EDGE TRIM	SCHLUTER TRIM	LVT 340 EBRZ	12' LENGTHS	SHAW INDUSTRIES, INC. 616 E. WALNUT AVE DALTON, GA 30720 T:800.441.7429 WWW.SHAWCONTRACT.COM	CONTACT: JESSA FINNEGAN, SHAW INDUSTRIES, INC. T: 404.558.1806 JESSA.FINNEGAN@SHAWINC.COM	OFFICE, BACKWRAP AND ALCOVE	OWNER PROVIDED
CT-01	ACOUSTICAL CEILING TILE	ARMSTRONG CIRRUS 533HRC	WHITE SQUARE EDGE - LAY-IN	24"X48"X.75"	ARMSTRONG P.O. BOX 3001 LANCASTER, PA 17604 T: 717.397.0611 WWW.ARMSTRONG.COM	MICHAEL MCDOWELL ARMSTRONG COMMERCIAL CEILING T: 717.396.6052 F: 717.396.4154 MJMCDOWELL@ARMSTRONG.COM	SALES FLOOR	G.C. PROVIDED	ET-02	EDGE TRIM	SCHLUTER TRIM	AE 30	8' LENGTHS	SHAW INDUSTRIES, INC. 616 E. WALNUT AVE DALTON, GA 30720 T:800.441.7429 WWW.SHAWCONTRACT.COM	CONTACT: JESSA FINNEGAN, SHAW INDUSTRIES, INC. T: 404.558.1806 JESSA.FINNEGAN@SHAWINC.COM	OFFICE, BACKWRAP AND ALCOVE	OWNER PROVIDED
FW-01	FAUX WOOD	NICHIHA FIBER CEMENT ARCHITECTURAL WALL PANEL MODEL#: EPC762F	SERIES: VINTAGE WOOD 3030 COLOR: CEDAR	18"W X 10'L	NICHIHA USA, INC. NATIONAL BRANDS DEPT. 6465 E JOHNS CROSSING, SUITE 250 JOHNS CREEK, GA 30097 T: 770.805.9466 WWW.NICHIHA.COM	CONTACT: ADAM COSSICK NATIONAL BRANDS MANAGER - RETAIL T: 770.805.9466 C: 770.570.0011 ACOSSICK@NICHIHA.COM	EXTERIOR	G.C. PROVIDED LEAD TIME: 2 WEEKS	SF-01	EXTERIOR STOREFRONT FRAMING AND GLAZING		FINISH TO MATCH EXISTING					SEE DOOR & HARDWARE SCHEDULE, A900
PT-01	PAINT - INTERIOR	SW 6246	COLOR: NORTH STAR FINISH: EGGSHELL		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	PERIMETER WALLS	G.C. PROVIDED					<u></u>				
	PAINT - INTERIOR FINISH	PRODUCT: SW PROMAR INDUSTRIAL PRE-CATALYZED WB EPOXY K45 SERIES MODEL#: SW 7005	COLOR: PURE WHITE FINISH: WALLS - EGGSHELL PAINT FINISH: DOOR FRAMES - SEMI GLOSS	300SF	SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	OUTSIDE OF OFFICE WALLS/ DOOR FRAMES	G.C. PROVIDED 2 COATS									
PT-02 —	PAINT - PRIMER	PRODUCT: SW PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER MODEL#: B28W2600	N/A	250SF - 300SF	SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	OUTSIDE OF OFFICE WALLS/ DOOR FRAMES	G.C. PROVIDED 1 COAT									
PT-03	PAINT - WALLS	SW 6249	COLOR: STORM CLOUD FINISH: WALLS - EGGSHELL FINISH: DOOR FRAMES - SEMI GLOSS		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	PERIMETER WALLS, BREAKROOM AND DOORS (REFER TO P/A900 DOOR SCHEDULE)	G.C. PROVIDED									
PT-04	PAINT - INTERIOR	SW 6102	COLOR : PORTABELLO FINISH: EGGSHELL		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	INSIDE BACK WRAP ALCOVES, PAINTED GYP. WALLS AND CEILINGS	G.C. PROVIDED									
PT-05 PT-06	NOT USED																
PT-07	NOT USED																
PT-08 PT-09	NOT USED PAINT - EXTERIOR	SW 6959	COLOR: BLUE CHIP FINISH: EXTERIOR PAINT		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	EXTERIOR BUILDING	G.C. PROVIDED									
PT-10	PAINT - EXTERIOR	SW 7648	COLOR: BIG CHILL FINISH: EXTERIOR PAINT		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	EXTERIOR BUILDING	G.C. PROVIDED									
PT-11	PAINT - EXTERIOR	SW 7650	COLOR: ELLIE GRAY FINISH: EXTERIOR PAINT		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	EXTERIOR WALL SIDES AND REAR AND PAINTED ROOF COPPING	G.C. PROVIDED									
PT-12	PAINT - EXTERIOR GRAY ACCENT	SW 7074	COLOR: SOFTWARE FINISH: EXTERIOR PAINT		SHERWIN WILLIAMS PRODUCT HOTLINE T: 1.800.331.7979 WWW.SHERWINWILLIAMS.COM	CONTACT: DWIGHT LECLAIR SHERWIN WILLIAMS 2800 CENTURY PARKWAY NE, SUITE #1000 ATLANTA, GA 30345 T: 678.361.6108 C: 678.942.5377 DCLECLAIR@SHERWIN.COM	EXTERIOR PERIMETER ACCENT	G.C. PROVIDED									
VT-01	LUXURY VINYL TILE	SURFACE 0515V	SEDIMENT 15595	18" X 36"	SHAW INDUSTRIES, INC. 616 E. WALNUT AVE DALTON, GA 30720 T:800.441.7429 WWW.SHAWCONTRACT.COM	CONTACT: JESSA FINNEGAN SHAW INDUSTRIES, INC. T: 404.558.1806 JESSA.FINNEGAN@SHAWINC.COM	SALES FLOOR -AISLE	OWNER PROVIDED									
VT-02	LUXURY VINYL TILE	SURFACE 0515V	GRAVEL 15530	18" X 36"	SHAW INDUSTRIES, INC. 616 E. WALNUT AVE DALTON, GA 30720 T:800.441.7429 WWW.SHAWCONTRACT.COM	CONTACT: JESSA FINNEGAN SHAW INDUSTRIES, INC. T: 404.558.1806 JESSA.FINNEGAN@SHAWINC.COM	SALES FLOOR - FIELD	OWNER PROVIDED									
VT-03	LUXURY VINYL TILE	EON + AMALGAM 4113V AMALGAM	ONYX 13555	20" X 20"	SHAW INDUSTRIES, INC. 616 E. WALNUT AVE DALTON, GA 30720 T:800.441.7429 WWW.SHAWCONTRACT.COM	CONTACT: JESSA FINNEGAN SHAW INDUSTRIES, INC. T: 404.558.1806 JESSA.FINNEGAN@SHAWINC.COM	RESTROOMS / BREAKROOM	OWNER PROVIDED									
WB-01	WALL BASE	JOHNSONITE BASEWORKS	71 STORM CLOUD - TOE STYLE	4"	JOHNSONITE 30000 AURORA ROAD SOLON, OH 44139 T: 800.899.8916 F: 440.543.8920 WWW.JOHNSONITE.COM	CONTACT: STEPHANIE ELLIOTT TANDUS CENTIVA C: 404.998.2872 SBELLIOTT@TANDUS-CENTIVA.COM	PAINTED WALLS	OWNER PROVIDED									





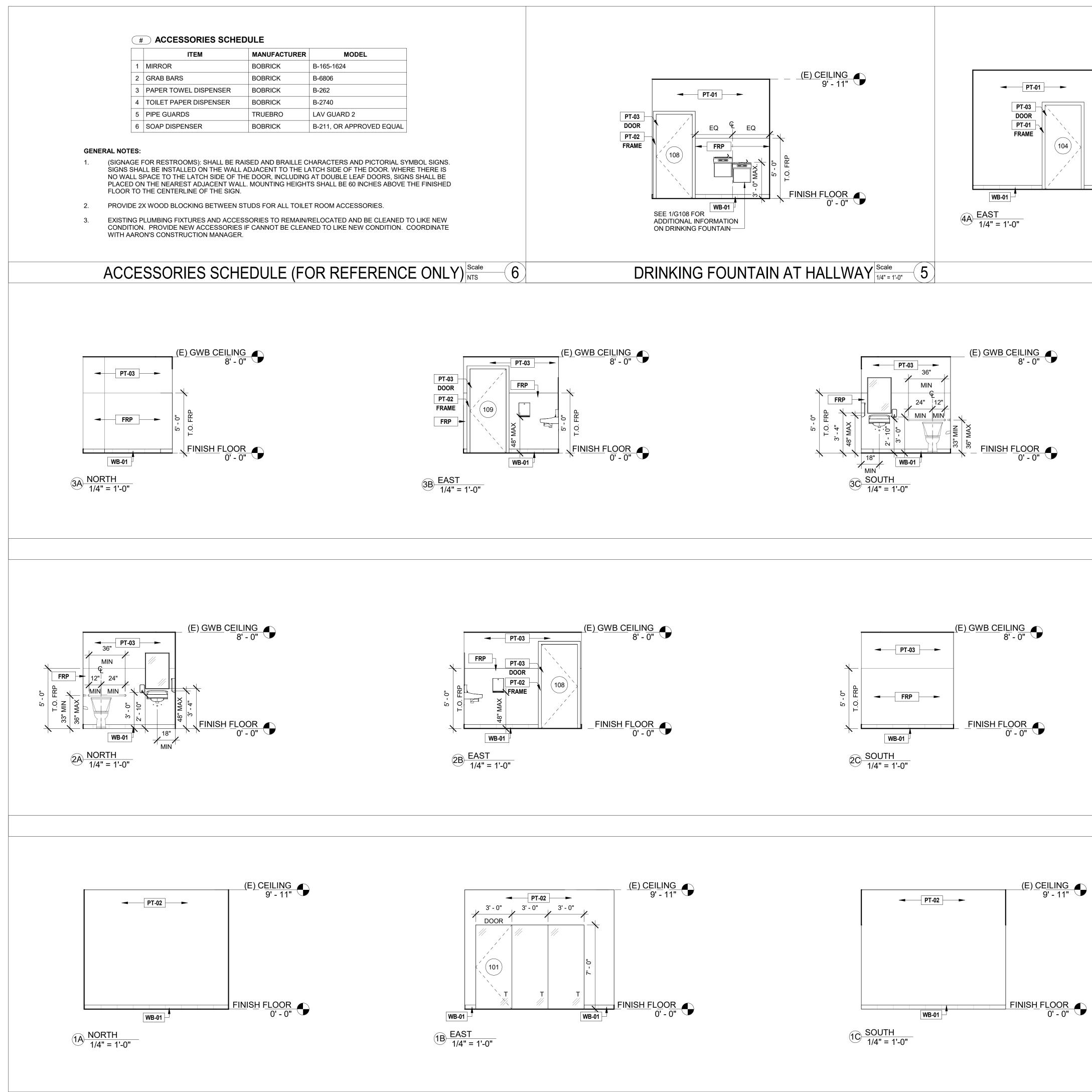
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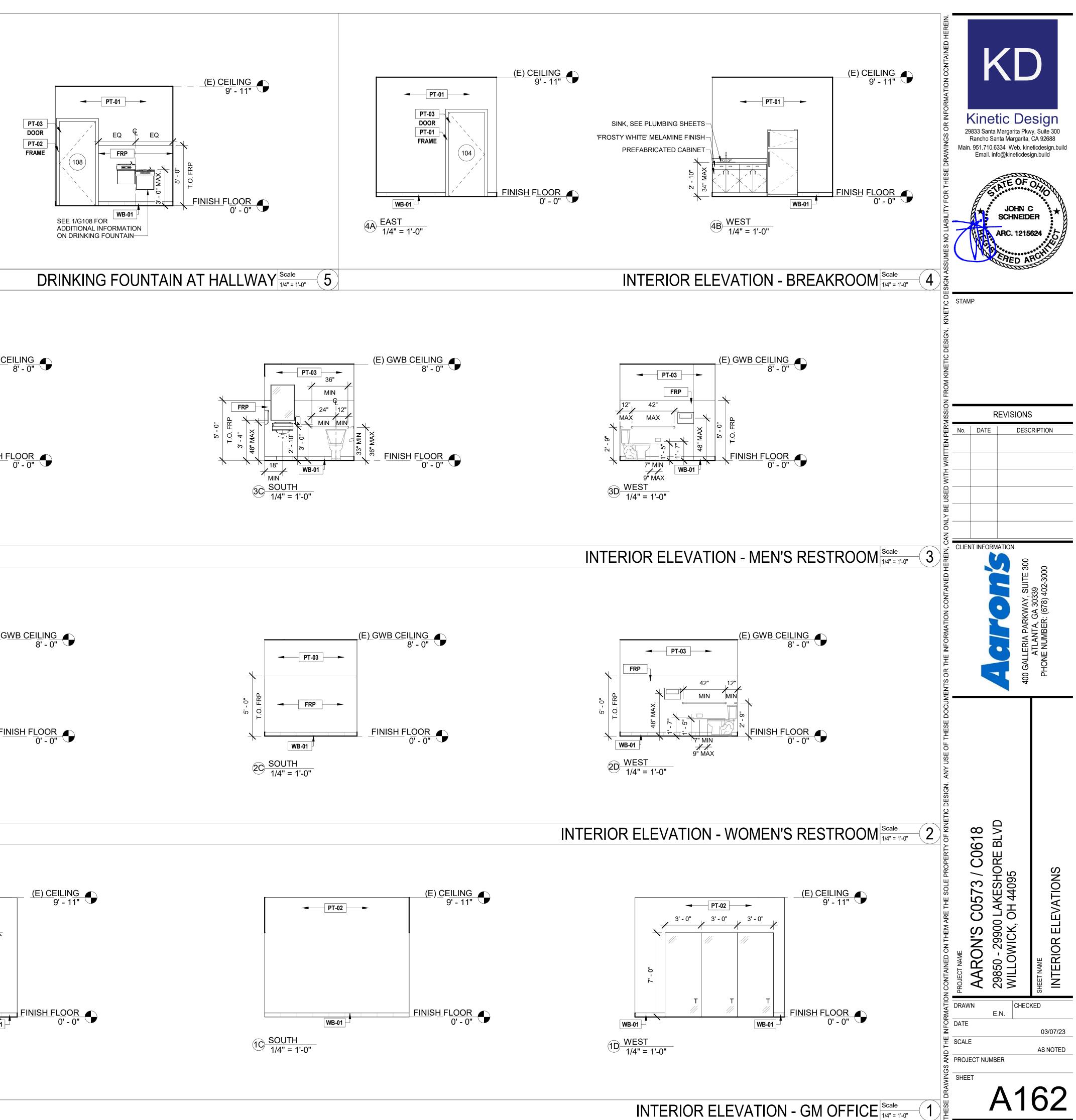


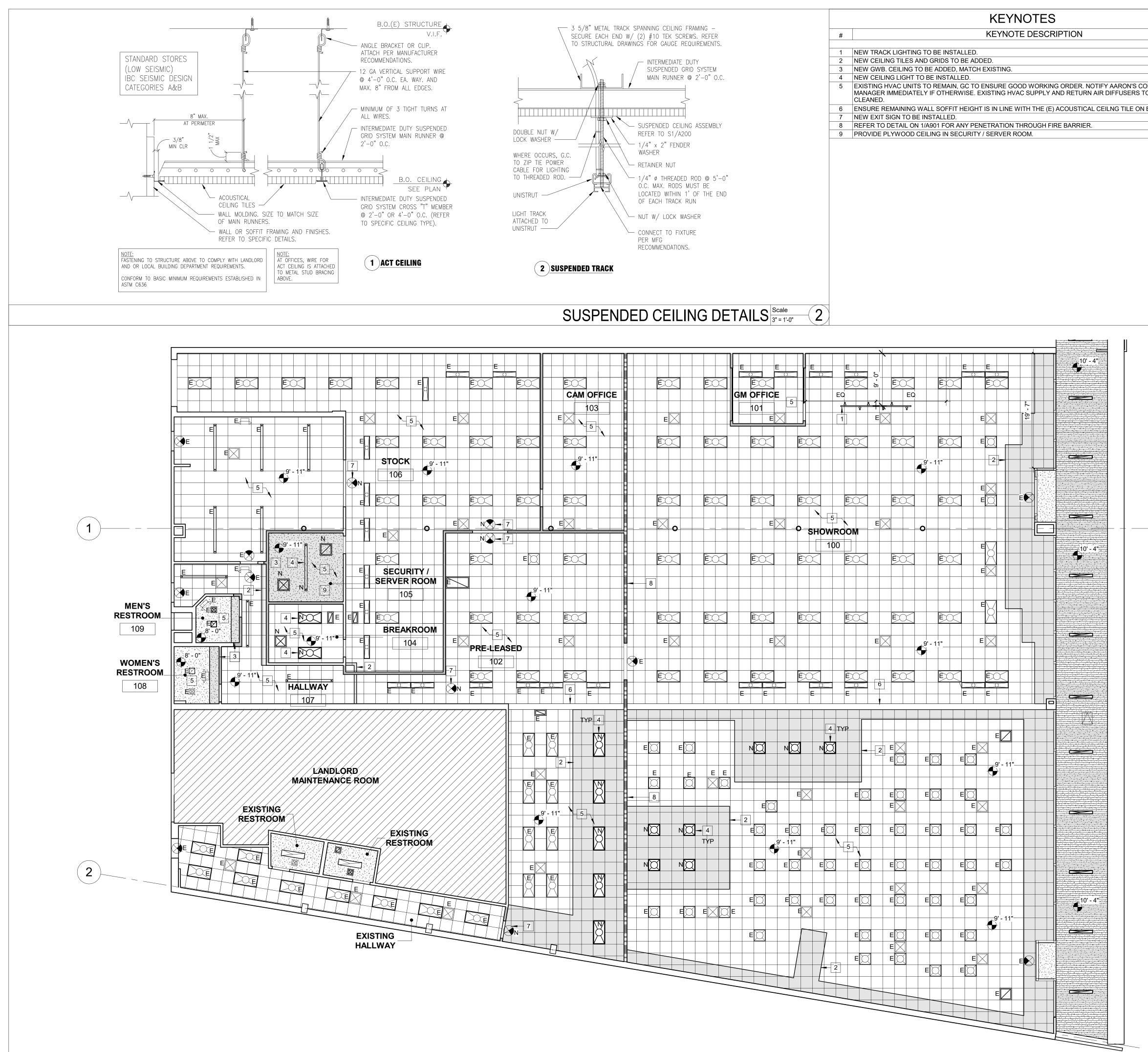


INTERIOR ELEVATION - PRE-LEASED - EA

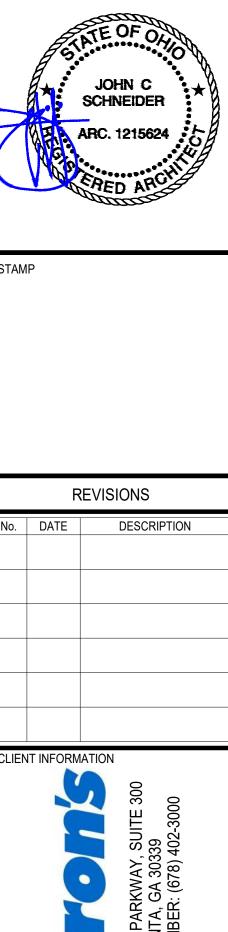
		GRA	PHICS SCHEDULE		
_		TAO			VIDENTIAL Constraints Kinetic Design 29833 Santa Margarita Pkwy, Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build
	DEPARTMENT	TAG	NAME	DIMENSIONS 96" × 32"	
		A1-R	WHOLE LOT COOLER	96" × 32"	
		A2-L	OPEN THE DOOR	96" × 32" 96" × 32"	
		A3-L		96" × 32"	
	APPLIANCES	A3-R	LOW MONTHLY PAYMENT	96" × 32"	29833 Santa Margarita Pkwy, Suite 300
		A4-L A4-R	PILES OF SMILES	96" × 32" 96" × 32"	Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build
		AF1-L	A LOT SWEETER	75" × 105"	Email. info@kineticdesign.build
		AF1-R	A LOT SWEETER	75" × 105"	TE OF O4
		AF2-L	THE CURE	75" × 105" 75" × 105"	HI STATE OF OAN
		B1-84		84" × 84"	JOHN C SCHINEIDER ARC. 1215624
		B1-72 B1-32	DRAGONS	72" × 72" 96" × 32"	
		B1-82 B2-84		84" × 84"	ON STARC. 1215624
		B2-72		72" × 72"	ERED ARCH
EST Scale 4		B2-32 BF2-L	SNOOZE	96" × 32" 75" × 105"	S Vinner
	BEDROOM & SLEEP	BF2-R		75" × 105"	10
	CENTER	B3-84	EASY APPROVALS	84" × 84" 72" × 72"	STAMP E Z Z
		B3-72 B3-32	EASY APPROVALS	96" × 32"	
		B4-84		84" × 84"	DESIGN
		B4-72 B4-32	GOT YOU COVERED	72" × 72" 96" × 32"	
		B5-84		84" × 84"	
		B5-72	LIFE OUTGROWN	72" × 72"	NOL DATE DESCRIPTION
		B5-32 C1A-192		96" × 32" 192" × 67"	
		C1A-144	SURF AWAY (67" HEIGHT)	144" × 67"	
		C1A-96 C1A-32	SURF AWAY (32" HEIGHT)	96" × 67" 96" × 32"	
		C1B-192		192" × 55"	
		C1B-144	SURF AWAY (55" HEIGHT)	144" × 55"	
	COMPUTERS	C1B-96 C2A-192		96" × 55" 192" × 67"	
		C2A-144	LONG-TERM COMMITMENT (67" HEIGHT)	144" × 67"	Ш
		C2A-96	LONG-TERM COMMITMENT (32" HT)	96" × 67" 96" × 32"	
Sacla Carl		C2B-192		192" × 55"	CLIENT INFORMATION
UTH Scale 1/4" = 1'-0"		C2B-144 C2B-96	LONG-TERM COMMITMENT (55" HEIGHT)	144" × 55" 96" × 55"	
		D1-84	EASY APPROVALS	84" × 84"	TAINED HERI SUITE 300 39 402-3000
	DINING	D1-72		72" × 72" 84" × 84"	CONTAI VAY, SL 78) 402
		D2-72	MEAL MEMORIES	72" × 72"	ION CO RKWP GA 3 C (673
		LR1-84	ADD LIFE	84" × 84" 72" × 72"	TS OR THE INFORMATION CONTAINED HE
		LR2-84		84" × 84"	
		LR2-72	RELAX, RECLINE, REWIND	72" × 72"	OR THI
		LR3-84	FASHIONABLE FURNISHINGS	84" × 84" 72" × 72"	H H
	LIVING ROOM	LR4-84	FLEXIBLE PAYMENTS	84" × 84"	POCUMENTS
		LR4-72		72" × 72" 84" × 84"	SE DO
		LR5-72	HOMEWORK HERO	72" × 72"	THESE
		LR6-84	WHERE YOU PLAY	84" × 84" 72" × 72"	USE OF
		LR7-84	CREATE A SPACE	84" × 84"	ANY U
		LR7-72 PL1-BLUE		72" × 72"	DESIGN
		PL1-WHITE	SAY HELLO	88.85" × 24.5"	
	PRE-LEASED	PL2-BLUE	READY TO GO	134.67" × 72"	OF KINETIC
AST Scale 1/4" = 1'-0" 2	AREA	PL2-WHITE PL3-BLUE	MIX. MATCH. MARVEL	24.5" × 120"	⊳ оп
		PL3-WHITE		24.0 * 120	
		PL-4 V1	PRE-LEASED SAVING (PILLOW KIT) OFFICE WALL VINYL	GM OFFICE VINYL	573 / C06 573 / C06 (ESHORE E 44095 TIONS
		V2	DOOR VINYL	DOOR VINYL	
		V3 AV1	WINDOW VINYL	WINDOW VINYL 48" H	CO5 CO5 OH 4 OH 4 EVA1
	SUPPLEMENTAL	AV2	APOSTROPHE VINYL (PERIMETER APOSTROPHE)	36" H	CONTAINED ON THEM ARE THE SOLE PROPERT ROJECT NAME AARON'S CO573 / CO 29850 - 29900 LAKESHORE 29850 - 29900 LAKESHORE 29850 - 29900 LAKESHORE 2014 44095 WILLOWICK, OH 44095 MILLOWICK, OH 44095 MEET NAME MEET NAME INTERIOR ELEVATIONS
		AV3 H1	MR. AARON - RENTS FURNITURE	24" H	DONTHEM ME ON'S OVICK, SUOR EL
		H2	AARON RENTS	45.75" × 34.25"	CONTAINED ROJECT NAM AARC 29850 - 29850 - WILLO HEET NAME HEET NAME
		H3	AARON RENTS INC.		PROJECT NAME PROJECT NAME AARO 29850 - 29850 - WILLOV WILLOV WILLOV SHEET NAME SHEET NAME
					O DRAWN CHECKED
					E.N. DATE
					불 <u>03/07/23</u> 뿐 SCALE
					PROJECT NUMBER
					SHEET A161
RTH Scale 1/4" = 1'-0"					

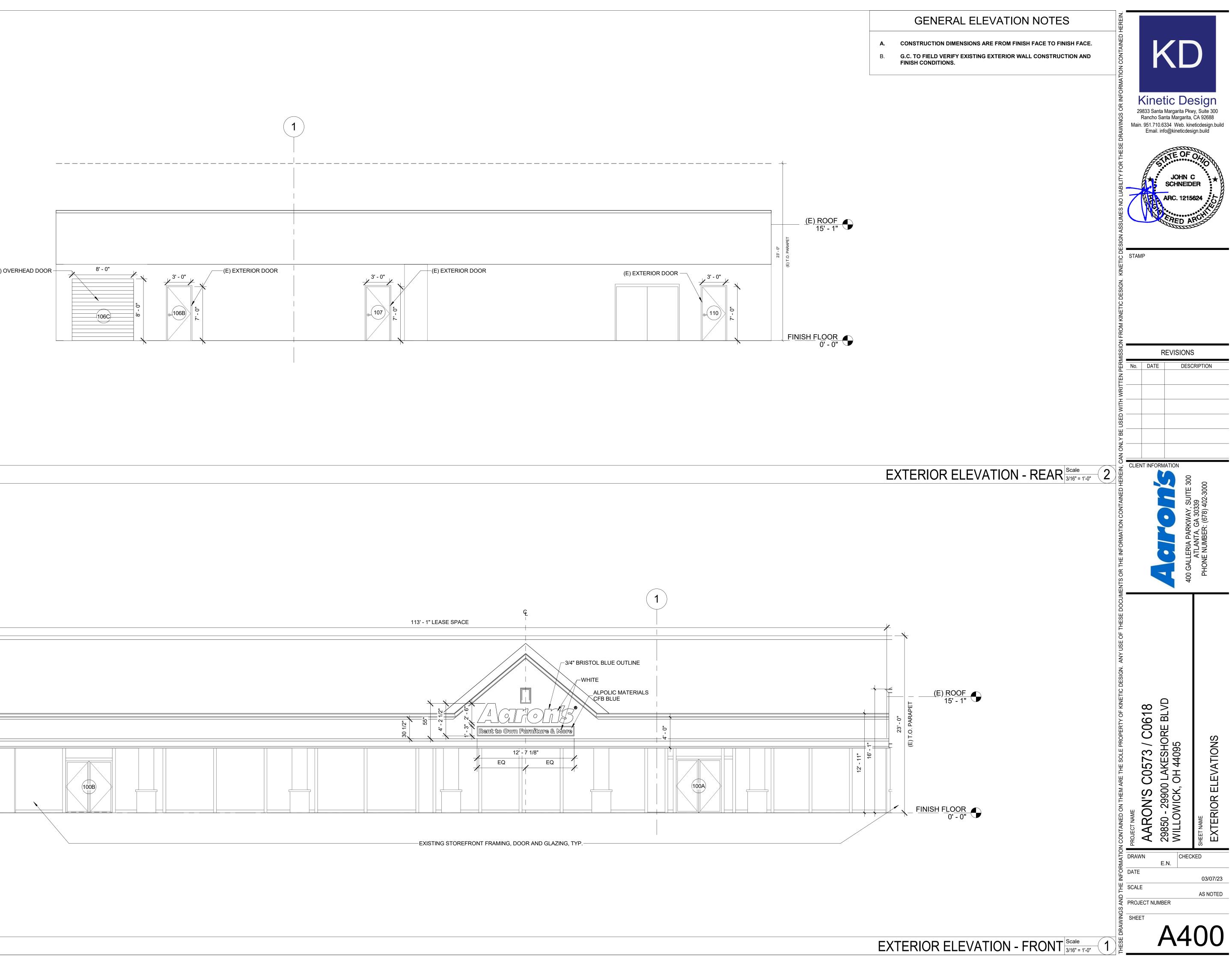


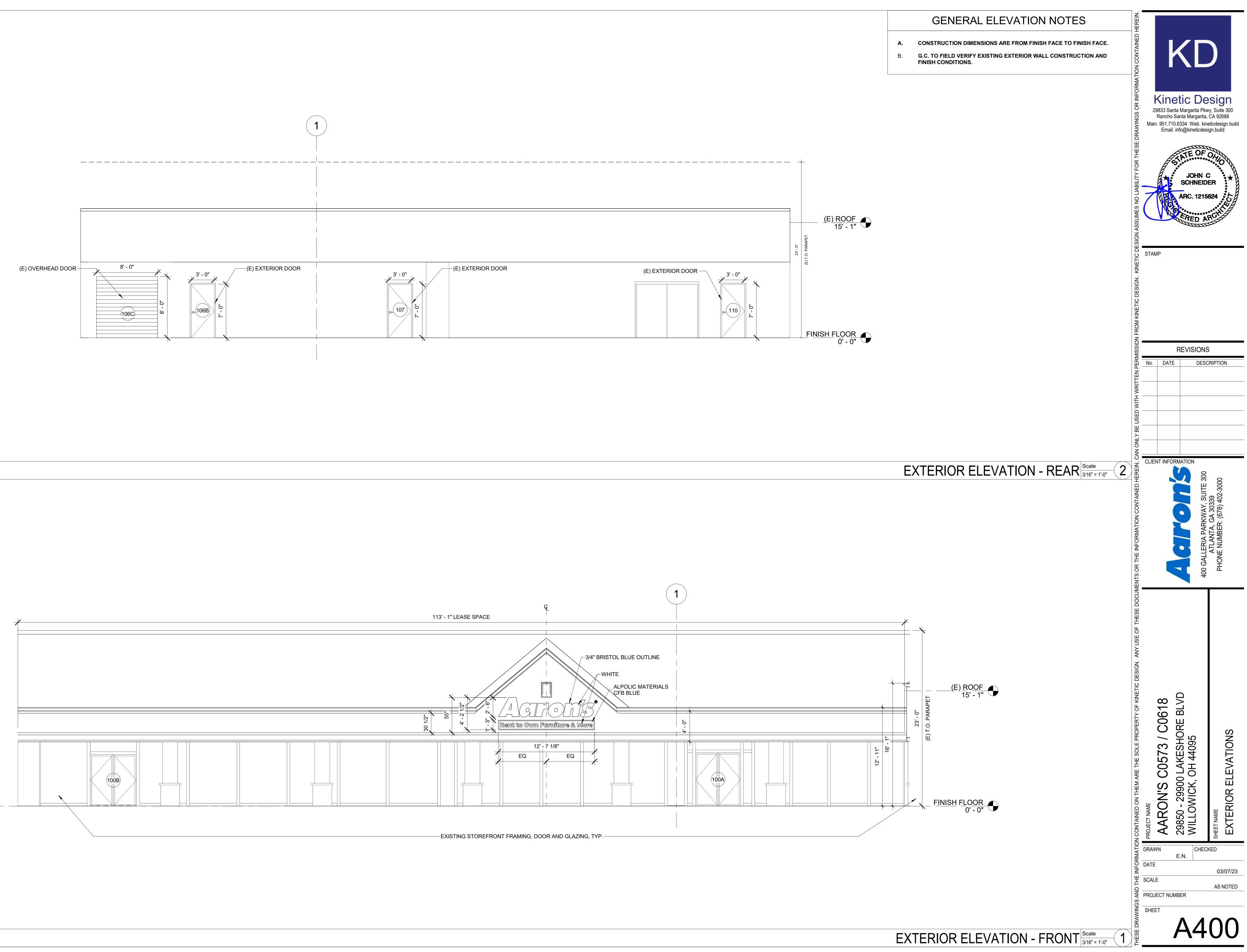




	GEN	NERAL CEILING PLAN NOTES	HEREIN				
		NCY LIGHTS TO BE INSTALLED ON SEPARATE CIRCUIT.					
		FIXTURES INCLUDING EXIT LIGHTS, EMERGENCY LIGHTS, ETC., FURNISHED AND INSTALLED BY THE CONTRACTOR.	CONT		K		
		HING AND PAINTING REQUIREMENTS SHALL BE DIRECTED TO THE HEDULE SPECIFICATIONS AND INTERIOR ELEVATIONS.					
O REMAIN AND BE		TOR TO USE LASER FOR LEVELING OF ALL SOFFITS, CEILINGS PENDED GRIDS.	NFORM	L	Kinetio		sign
		AS AND LIGHTS TO HAVE HANG WIRES ON ALL FOUR CORNERS	GS OR	29	833 Santa Mar Rancho Santa	rgarita Pkwy	, Suite 300
	CEILING E	ELOW. DUCT FIRE DAMPER MUST BE INSTALLED WITH A AY CONNECTION PLENUM THAT CANNOT CONTAIN ANY	EDRAWINGS		. 951.710.6334 Email. info@	Web. kineti	icdesign.build
	CONFIRM FRAMELE	CONTRACTOR TO INSTALL ACCESS DOORS AS NECESSARY AND EXACT LOCATIONS. ACCESS PANEL MUST BE FLUSH, SS GYPSUM PANELS IN SALES AREA. G.C. MUST PROVIDE AN ICE FOR ACCESS PANELS IN BID.	FOR THI		STAT	EOFO	410
	8. ALL LIGHT IN PLACE.	TING SHOULD BE IN WORKING ORDER AND ALL COVERS / LENSES	LIABILITY	-		John C Chneide	R
	9. GENERAL CODES.	CONTRACTOR SHALL COMPLY WITH CURRENT STATE ENERGY	Q	7	AR	C. 12156	24
		CONTRACTOR TO VERIFY FIRE ALARM REQUIREMENTS AND RCHITECT AS SOON AS POSSIBLE OF ANY DISCREPANCIES.	ESIGN ASSUMES		E	PED AP	CH
		RM, FIRE STROBE, FIRE PULL SHALL BE BY OTHERS ON A E SUBMITTAL.	SIGN A:				
	CONDITIC AARON'S SALES; EX FITTED W	ED CEILING PLAN REPRESENTS IDEAL DESIGN. VERIFY INS IN FIELD AND COORDINATE ANY LAYOUT CONFLICTS WITH DESIGN TEAM. TYPICAL IS (1) 2'X4' FIXTURE PER 120-140 SQ.FT. O KISTING FLUORESCENT LIGHTS TO BE RE-USED SHALL BE RETRC ITH LED KITS OR MUST BE T-8 MAX 28 WATT 3 LIGHTS FIXTURES H EFFICIENCY ELECTRONIC BALLASTS (SEE LIGHT ATIONS)	H NETIC D	STAM	Ρ		
	13. REPAIR LI	GHTING AS NECESSARY TO MAKE OPERATIONAL					
		LEGEND	ROM KI				
	ROOM NAME		SION F		RE\	/ISIONS	
	###	ROOM TAG	PERMISSION	No.	DATE	DESCR	
	— [#]	KEYNOTE TAG (N) 2'X2' ACOUSTICAL TILE CEILING ON SUSPENSION SYSTEM.					
		SEE DETAIL THIS SHEET. NEW R-11 BATT INSULATION TO BE PROVIDED ON TOP OF CEILING TILES, TYP.	D WITH WRITTEN				
		(E) 2'X2' ACOUSTICAL TILE CEILING IN EXISTING SUSPENDED ACT GRID.(E) GYPSUM WALL BOARD ON METAL STUD JOISTS TO REMAIN	ONLY BE USED				
	<u>kerese</u> Ngatakatan		CAN	CLIEN		ION	
		(N) GYPSUM WALL BOARD ON METAL STUD	ON CONTAINED HEREIN,		L'	300	00
		(N) NON-RATED PARTITION WALL	ITAINED		-	SUITE 300	(678) 402-3000
		(E) PARTITION WALL TO REMAIN	ON CON		•	PARKWAY, SL TA CA 20220	')
		(N) 2HR FIRE-BARRIER PER CODE TO BE PROVIDED BY LANDLORD.	_				PHONE NUMBER:
	E/N	EXISTING / NEW 2'×4' FIXTURE W/ LED RETROFIT NEW PRISMATIC LENS & 4000K BULBS, SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION	S OR THE INFORMAT		0	400 GALLERIA	PHONE
	E/N	EXISTING / NEW 2'×2' FIXTURE W/ LED RETROFIT NEW PRISMATIC LENS & 4000K BULBS, SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION	ANY USE OF THESE DOCUMENTS				
	E	EXISTING 4'×1' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE WITH COVER	OF THESE [
	» E/N	EXISTING / NEW 8'×4" SUSPENDED / SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE					
	ç ç	NEW SUSPENDED TRACK AND LIGHT FIXTURE	ESIGN.				
	₽	EXISTING EMERGENCY LIGHT	LETIC D		0		
	E/N	EXISTING / NEW EXIT SIGN W/ BATTERY BACKUP	SOLE PROPERTY OF KINETIC DESIGN.		CO618 RE BLVD		z
	E/N	EXISTING / NEW SUPPLY AIR DIFFUSER	LE PROPEI		\sim \circ	44095	g plan
	E/N	EXISTING / NEW RETURN AIR DIFFUSER	RE THE SO		C0573	OH 44(CEILING
	E/N	EXISTING / NEW LIGHT AND EXHAUST COMBO IN RESTROOMS	N THEM AF			WICK, 0	ED
		AREA NOT IN SCOPE OF WORK	THE INFORMATION CONTAINED ON THEM ARE THE	PROJECT NAME	50 Å	WILLOW	SHEET NAME REFLECT
			IATION	DRAW		CHECKE	
			NFORM	DATE	E.N.		03/07/23
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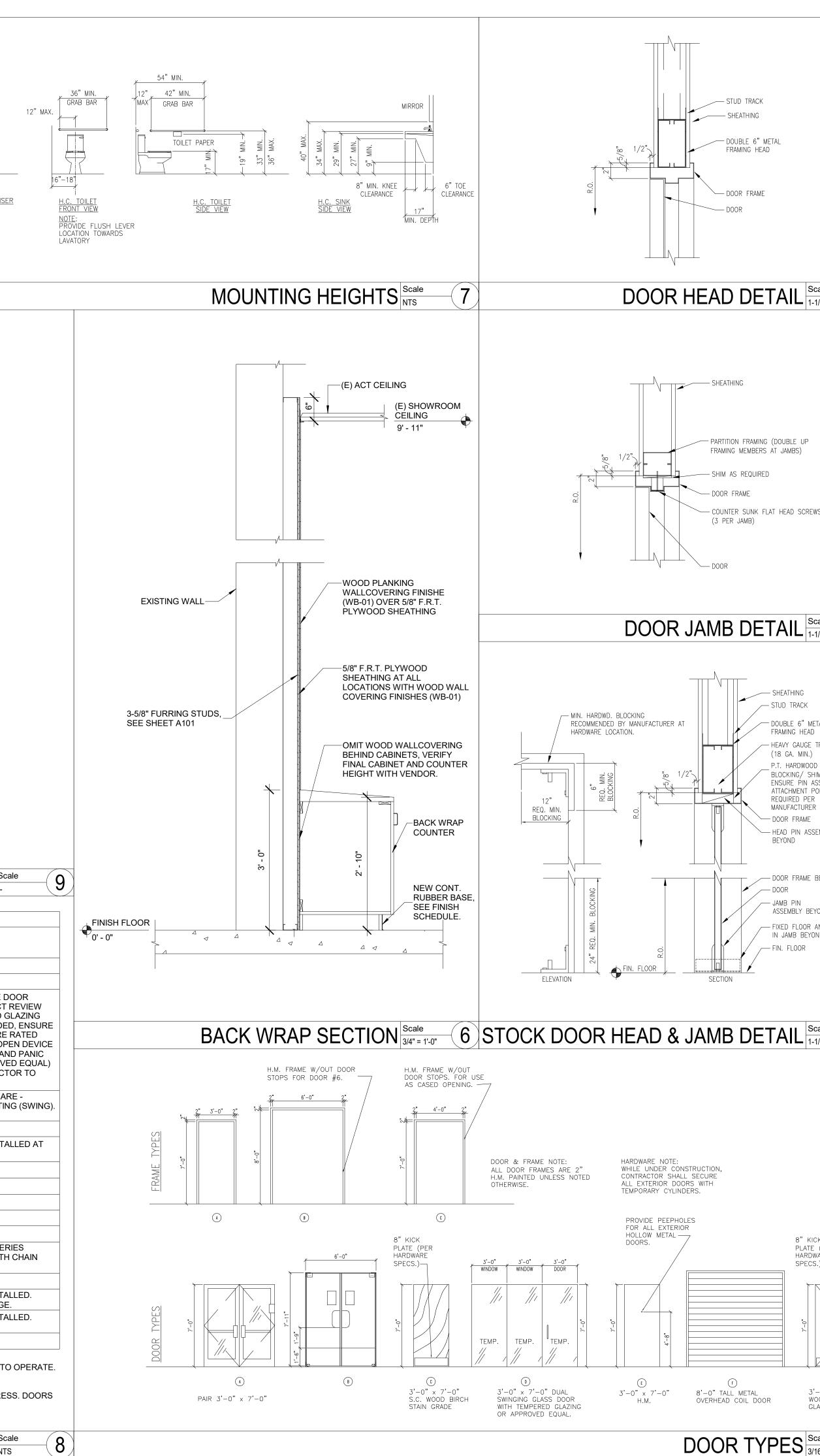




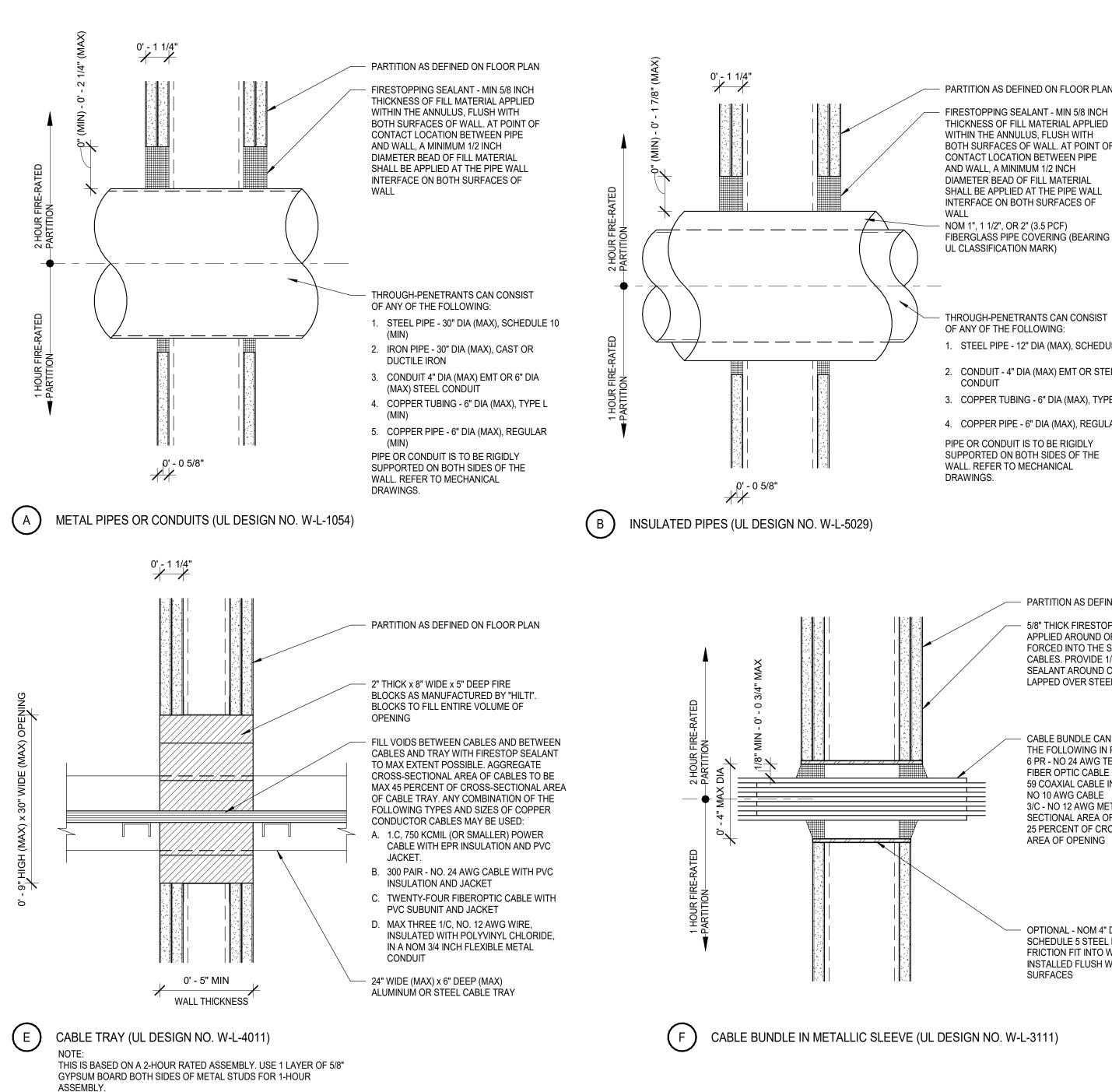
	DRINKING PA	RFACE MTD. DEEP MAX. 	DOOR	7"	VUTLET WALL	€.E			FIRE ALA PULL ST	6, - 8"	ALARM MIRROR SOAP DISPENSER
	Fountain(s) Di	SPENSER			<u>10H4</u>	<u></u>			PULL SI	<u>AIIUN & SII</u>	KUBE
											NOT USED Scale
DOOR NO.	LOCATION	DOOR SIZE	DOOR TYPE	MATERIAL	FINISH	R SCHED HEAD	DULE DETAIL JAMB	SILL	FRAME	HARDWARE SET	REMARKS
100A 100B	(E) FRONT ENTRY (E) FRONT ENTRY	6'-0" x 7'-0" 6'-0" x 7'-0"	-	EXISTING EXISTING	EXISTING EXISTING	-	-		-	-	
100C	(N) SHOWROOM	6'-0" x 7'-0"	в	MANUF.	MANUF.	5/A900 SIM.	4/A900 SIM.	-	-	-	CONTRACTOR TO SUBMIT FIRE DOO SPECIFICATION FOR ARCHITECT REV AND APPROVAL. IF FIRE RATED GLAZ DOOR VISION PANEL IS PROVIDED, E 100 SQ.IN. OR LESS. 90 MIN. FIRE RAT DOOR WITH MAGNETIC HOLD OPEN (2/A902 OR APPROVED EQUAL AND P HARDWARE (1/A902 OR APPROVED E PER CODE. AARON'S CONTRACTOR PROVIDE.
101	(N) GM OFFICE	3'-0" x 7'-0"	D	TEMPERED GLAZING	N/A	-	-	-	-	10	CUSTOM GLASS DOOR HARDWARE - CONCEALED HINGES, DUALACTING (UNDERCUT DOOR 1/2"
102A		6'-0" x 8'-0"	В	IMPACT	MANUF.	3/A900		3/A900	В	5	
102B	(E) PRE-LEASED EMERGENCY EXIT	3'-0" x 7'-0"	-	EXISTING	PAINT PT-03	5/A900		-	A	3	TO BE RELOCATED AND REINSTALLE THE INDICATED LOCATION.
103 104	(N) CAM OFFICE (N) BREAKROOM	3'-0" x 7'-0" 3'-0" x 7'-0"	C C	S.C. WOOD S.C. WOOD	PAINT PT-03 PAINT PT-03	5/A900 5/A900		-	A A	4	
105	(N) SECURITY / SERVER	3'-0" x 7'-0"	E	METAL	PAINT PT-03	5/A900		-	A	7	
106A 106B 106C	(E) STOCK (E) STOCK EGRESS (E) OVERHEAD	3'-0" × 7'-0" 3'-0" × 7'-0" 8'-0" × 8'-0"		EXISTING EXISTING EXISTING	PAINT PT-03 PAINT PT-03 EXISTING	-	-	-	-	3 9 2	OVERHEAD DOOR COMPANY SERIES 620 F-265 FLAT SLAT. 18 GA. WITH CH
107	(E) HALLWAY EXIT	3'-0" x 7'-0"	-	EXISTING	PAINT PT-03	-	-	-	-	9	HOIST.
108 109	(E) WOMEN'S RESTROO (E) MEN'S RESTROOM	M 3'-0" x 7'-0" 3'-0" x 7'-0"	-	EXISTING	PAINT PT-03 PAINT PT-03	5/A900 5/A900		-	-	6 6	TO BE RELOCATED AND REINSTALLE PROVIDE H/C WOMEN'S SIGNAGE. TO BE RELOCATED AND REINSTALLE PROVIDE H/C MEN'S SIGNAGE.
110	(E) PRE-LEASED EXIT	3'-0" x 7'-0"	-	EXISTING	PAINT PT-03	-	-	-	-	9	

1. DOOR HARDWARE SHALL COMPLY WITH ADA SECTION 404.2.7. HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. INTERIOR DOORS WITH CLOSER TO BE SET TO MAX. 5LB. FORCE, EXTERIORS DOORS SET TO MAX 8LB FORCE.

2. LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN THE DIRECTION OF EGRESS. DOORS SHALL BE CAPABLE OF BEING OPENED W/ ONLY ONE RELEASING OPERATION.



EACH SET TO RECEIVQTYITEM1PADLOCKGROUP 3 - INTERIOREACH SET TO RECEIVQTYITEM3HINGES1EXIT DEVICE1CYLINDER1CLOSER1DOOR VIEWER1THRESHOLDGROUP 4 - INTERIOREACH SET TO RECEIVQTYITEM3HINGES1LOCKSET1CLOSER1KICK PLATES1WALL BUMPERQTYITEM2DOORQTYITEM3HINGES1FAMEQTYITEM3HINGES1CLOSER1FAMEQTYITEM3HINGES1CLOSER1FAMEQTYITEM3HINGES1CLOSER1CLOSER1CLOSER1CLOSER1KICK PLATE1CLOSER1CLOSER1KICK PLATE1KICK PLATE1	MANUFACTUREROLD CASTLE GLASSADAMS RITEBY STORE OPSADAMS RITEOSEROLD CASTLE GLASSPPINGOLD CASTLE GLASSSEALOLD CASTLE GLASSOLD CASTLE GLASSSEALOLD CASTLE GLASSSEALOLD CASTLE GLASSOVERHEAD DOORS "STOCHEMERERMANUFACTURERBY STORE OPS.EMERERMANUFACTURERINGEIVESINGPSINGLE LEAF DOORS "BREACAL ROYALINGPSUPPLIACAL ROYALINGPSUPPLIAROCKWOODSUPPLIERMANUFACTURERPHOENIXSINGLE LEAF DOORS "BREASUPPLIERMANUFACTURERINGRPHOENIXSUPPLIERINGR <td< th=""><th>NICKEL MS1850A X 626 A.R. 4015, A.R. 4016.30 A.R. 4015, A.R. 4016.30 MANUFACTURER'S STANDARD WITH OFFSET ARM ASSEMBLY AND HOLD OPEN PB-21, PH-20 X 619 BRUSHED NICKEL MANUFACTURER'S STANDARD V-231 TH-49 925A X SATIN ANODIZED KAREA" MODEL BB1279 X NRP X 619 BRUSHED NICKEL 2670 GUARD-X 900XSPAS/ 900X619 BRUSHED NICKEL 698 X 619 BRUSHED NICKEL 698 X 619 BRUSHED NICKEL 8005 X MIL MODEL BB1191 X 619 BRUSHED NICKEL 8100 SUSPAS/ 900X619 BRUSHED NICKEL 900XSPAS/ 900X619 BRUSHED NICKEL 81191 X 619 BRUSHED NICKEL 8200 MODEL BB1191 X 619 BRUSHED NICKEL 900XSPAS/ 900X619 BRUSHED NICKEL MODEL BB1191 X 619 BRUSHED NICKEL 900XSPAS/ 900X619 BRUSHED NICKEL MODEL BB1191 X 619 BRUSHED NICKEL Y34" X 619 BRUSHED NICKEL Y34" X 619 BRUSHED NICKEL Y34" X 619 BRUSHED NICKEL Y409 X 619 BRUSHED NICKEL Y619 B</th><th>SCHN ARC. 1 ARC. 1 STAMP STAMP REVISIO</th><th>Design a Pkwy, Suite 300 arita, CA 92688 b. kineticdesign.build cdesign.build DF DF DF EIDER 215624</th></td<>	NICKEL MS1850A X 626 A.R. 4015, A.R. 4016.30 A.R. 4015, A.R. 4016.30 MANUFACTURER'S STANDARD WITH OFFSET ARM ASSEMBLY AND HOLD OPEN PB-21, PH-20 X 619 BRUSHED NICKEL MANUFACTURER'S STANDARD V-231 TH-49 925A X SATIN ANODIZED KAREA" MODEL BB1279 X NRP X 619 BRUSHED NICKEL 2670 GUARD-X 900XSPAS/ 900X619 BRUSHED NICKEL 698 X 619 BRUSHED NICKEL 698 X 619 BRUSHED NICKEL 8005 X MIL MODEL BB1191 X 619 BRUSHED NICKEL 8100 SUSPAS/ 900X619 BRUSHED NICKEL 900XSPAS/ 900X619 BRUSHED NICKEL 81191 X 619 BRUSHED NICKEL 8200 MODEL BB1191 X 619 BRUSHED NICKEL 900XSPAS/ 900X619 BRUSHED NICKEL MODEL BB1191 X 619 BRUSHED NICKEL 900XSPAS/ 900X619 BRUSHED NICKEL MODEL BB1191 X 619 BRUSHED NICKEL Y34" X 619 BRUSHED NICKEL Y34" X 619 BRUSHED NICKEL Y34" X 619 BRUSHED NICKEL Y409 X 619 BRUSHED NICKEL Y619 B	SCHN ARC. 1 ARC. 1 STAMP STAMP REVISIO	Design a Pkwy, Suite 300 arita, CA 92688 b. kineticdesign.build cdesign.build DF DF DF EIDER 215624
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1 WALL BUMPER NOTE: UNDERCUT D GROUP 7 – INTERIOR EACH SET TO RECEIV	ROCKWOOD	(MOUNT ON RESTROOM SIDE) 16" X 34" X 619 BRUSHED NICKEL		AY,
NOTE: UNDERCUT D GROUP 7 – INTERIOR EACH SET TO RECEIV	ROCKWOOD	409 X 619 BRUSHED NICKEL		:KWAY, SU GA 30339 :: (678) 402
EACH SET TO RECEIV				PAR ITA, BER
	SINGLE LEAF DOORS "SEC	URITY ROOM"		00 GALLERIA PARK ATLANTA, G PHONE NUMBER:
		MODEL		400 GALLERIA ATLAN PHONE NUN
QTY ITEM 3 HINGES	MANUFACTURER HAGER	MODEL 1191 X NRP X 619 BRUSHED NICKEL		0 G/
1 TUBULAR DEAD		T3660		40
1 LOCK GUARD	IVES	LG1 x 619 BRUSHED NICKEL	DOCUMENTS	
1 DOOR PULL 1 WALL BUMPER	ROCKWOOD	111 X 619 BRUSHED NICKEL 409 X 619 BRUSHED NICKEL		
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REINFORCEMENT				
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EACH SET TO RECEIV	E MANUFACTURER	MODEL	ANY US	D D
3 HINGES	HAGER	1191 x 619 BRUSHED NICKEL		AND
1 LOCKSET	CAL ROYAL	SL05 619 BRUSHED NICKEL STOREROOM	DESIGN	
GROUP 9 – EXTERIOR	EXIT/SERVICE			
EACH SET TO RECEIV			OF KINETIC	SCHEDULE
QTY ITEM	MANUFACTURER	MODEL BB1279 X NRP X 619 BRUSHED NICKEL	;1{ 3L\	
3 HINGES 1 EXIT DEVICE	HAGER VON DUPRIN	BB1279 X NRP X 619 BRUSHED NICKEL 2670 GUARD-X	COG18 CRE BLVI	Ň
1 CYLINDER	BY STORE OPS		PROPERTY / COG HORE E	с) Ш
1 CLOSER	CAL ROYAL	900XSPA/ 900 X ALUM	HC 25 / 102	ARI
1 WEATHER STRI		2525 B	ARE THE SOLE PROPERTY OF KINE C0573 / C0618 D LAKESHORE BLVD OH 44095	ARDWARE
1 DRIP CAP 1 DOOR BOTTOM	NGP SEAL NGP	16A 199NA		RD
1 THRESHOLD	NGP	896S X MIL		HAI
GROUP 10 – GM OFFI	E GLASS DOOR		J'S 9900(1CK,	
EACH SET TO RECEIV				AND
QTY ITEM	MANUFACTURER	MODEL	PROJECT NAME PROJECT NAME AARC 29850 - WILLOV	AME JR
1 END CAPS	DORMA	#233.040.101 FOR 36" HEADER	AR 9850	SHEET NAME DOOR
1 CLOSER	DORMA	RTS-88 CONCEALED, 90 DEGREE HO CLOSER		H C
1 TOP PATCH	DORMA	#833.112.101 - PT 22	PROJ 29 29 29	
		#833.100.101 - PT 10		HECKED
1 HINGE (PIVOT)		#201,106,101,355,6 AD,ILISTARI F BOTTOM		HECKED
	DORMA	#201.106.101 355.6 ADJUSTABLE BOTTOM PIVOT	DRAWN C DRAWN C DRAWN C DATE	HECKED 03/07/23
1 LOCKSET			DRAWN C DRAWN C DRAWN E.N. DATE NI H SCALE	
1 LOCKSET 1 KEY CYCLINDE	DORMA DORMA	PIVOT #801.122.101 PATCH LOCK FITTING AR20	DRAWN C DRAWN C E.N. DATE DATE U H SCALE PROJECT NUMBER	03/07/23
	DORMA DORMA	PIVOT #801.122.101 PATCH LOCK FITTING AR20 1/2", #225.997.107 MORTISE KEY CY #225.997.107 MORTISE KEY CYL./BLOCKING	DRAWN C DRAWN C E.N. DATE DATE U H SCALE PROJECT NUMBER	03/07/23
1 KEY CYCLINDE	DORMA DORMA R DORMA	PIVOT #801.122.101 PATCH LOCK FITTING AR20 1/2", #225.997.107 MORTISE KEY CY #225.997.107 MORTISE KEY CYL./BLOCKING RING, #225.996.101 MORTISE TTI	DRAWN C DRAWN C DRAWN C DATE DATE DATE DATE DATE DATE DATE DATE	03/07/23 AS NOTED
1 KEY CYCLINDER 1 STRIKE 1 PUSH/PULL	DORMA DORMA DORMA DORMA DORMA	PIVOT #801.122.101 PATCH LOCK FITTING AR20 1/2", #225.997.107 MORTISE KEY CY #225.997.107 MORTISE KEY CYL./BLOCKING RING, #225.996.101 MORTISE TTI #932.033.101 DUST PROOF STRIKE #926.004.101 12" BACK TO BACK LADDER	DRAWN C DRAWN C DRAWN C DATE DATE DATE DATE DATE DATE DATE DATE	03/07/23



PARTITION AS DEFINED ON FLOOR PLAN

THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT POINT OF CONTACT LOCATION BETWEEN PIPE AND WALL, A MINIMUM 1/2 INCH DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF

NOM 1", 1 1/2", OR 2" (3.5 PCF) FIBERGLASS PIPE COVERING (BEARING UL CLASSIFICATION MARK)

THROUGH-PENETRANTS CAN CONSIST OF ANY OF THE FOLLOWING:

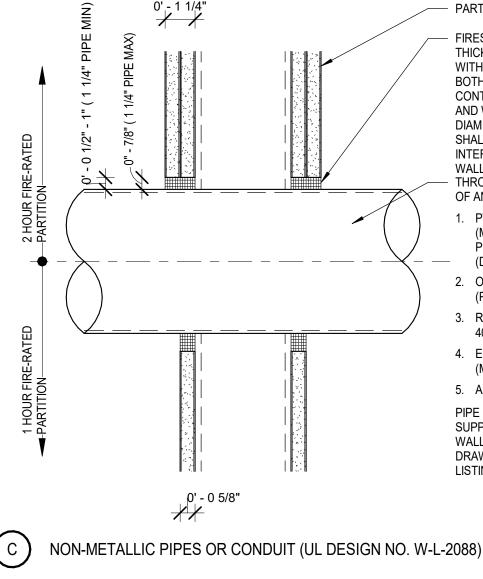
- 1. STEEL PIPE 12" DIA (MAX), SCHEDULE 10 (MIN)
- 2. CONDUIT 4" DIA (MAX) EMT OR STEEL
- 3. COPPER TUBING 6" DIA (MAX), TYPE L (MIN)
- 4. COPPER PIPE 6" DIA (MAX), REGULAR (MIN)

PIPE OR CONDUIT IS TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL. REFER TO MECHANICAL

PARTITION AS DEFINED ON FLOOR PLAN 5/8" THICK FIRESTOPPING SEALANT APPLIED AROUND OPENING AND FORCED INTO THE SPACES BETWEEN CABLES. PROVIDE 1/4" CROWN OF SEALANT AROUND CABLE BUNDLE AND LAPPED OVER STEEL SLEEVE CABLE BUNDLE CAN CONSIST OF ANY OF THE FOLLOWING IN PVC JACKET: 6 PR - NO 24 AWG TELEPHONE CABLE, 24

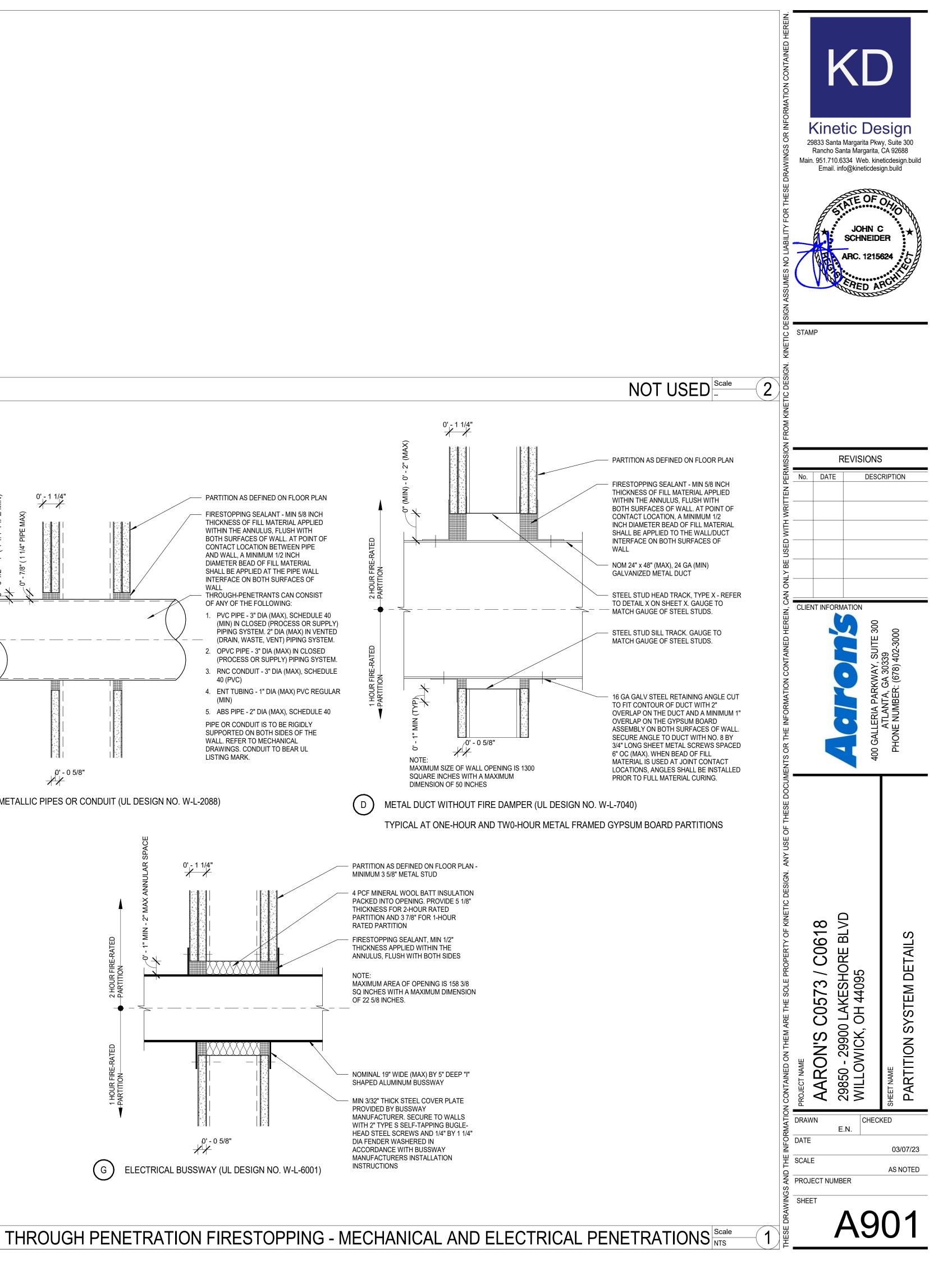
FIBER OPTIC CABLE IN PVC JACKET, RGU 59 COAXIAL CABLE IN PVC JACKET 2/C -NO 10 AWG CABLE 3/C - NO 12 AWG METAL CLAD CABLE SECTIONAL AREA OF CABLES TO BE MAX 25 PERCENT OF CROSS-SECTIONAL AREA OF OPENING

OPTIONAL - NOM 4" DIA, EMT OR SCHEDULE 5 STEEL PIPE SLEEVE, FRICTION FIT INTO WALL ASSEMBLY AND INSTALLED FLUSH WITH WALL SURFACES



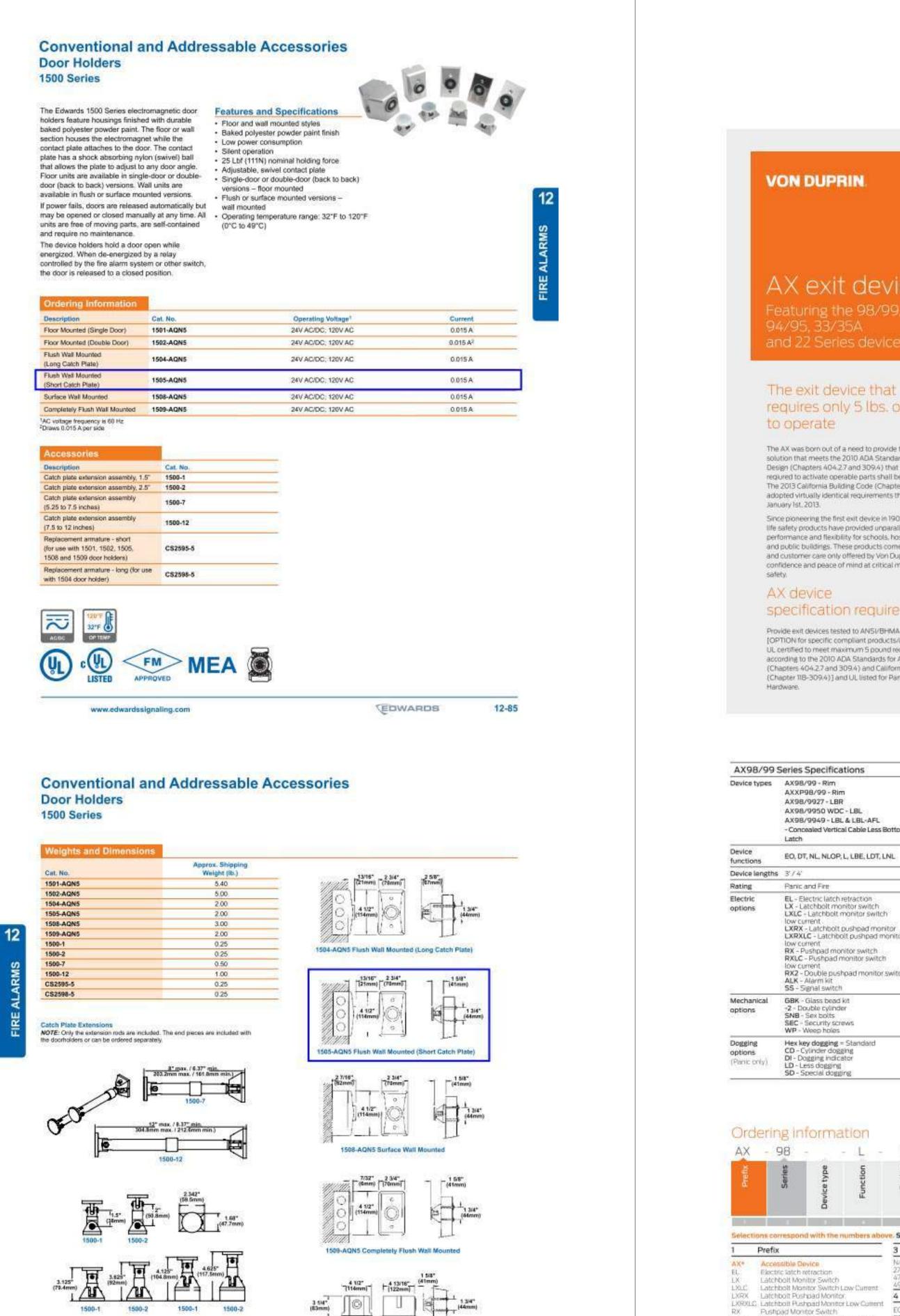
OF ANY OF THE FOLLOWING:

- (DRAIN, WASTE, VENT) PIPING SYSTEM.
- (PROCESS OR SUPPLY) PIPING SYSTEM.
- 40 (PVC)
- (MIN)





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ELECTROMAGNETIC HOLD OPEN DEVICE SPECIFICATION

(2)

ax.allegion.com to learn how the AX device

can help you provide accessibility without

compromise.



AX exit devices and 22 Series devices

requires only 5 lbs. of force

The AX was born out of a need to provide the market with a solution that meets the 2010 ADA Standards for Accessible. Design (Chapters 404.27 and 309.4) that state the force regiured to activate operable parts shall be 5 lbs. maximum. The 2013 California Building Code (Chapter 118-309.4) adopted virtually identical requirements that went into effect

Since pioneering the first exit device in 1908, Von Duprin life safety products have provided unparalleled quality. performance and flexibility for schools, hospitals, stadiums and public buildings. These products come with the support and customer care only offered by Von Duprin. Providing the confidence and peace of mind at critical moments of life

specification requirements

Provide exit devices tested to ANSI/BHMA A156.3 Grade 1, [OPTION for specific compliant products/applications: UL certified to meet maximum 5 pound requirements according to the 2010 ADA Standards for Accessible Design (Chapters 404.2.7 and 309.4) and California Building Code (Chapter 118-309.4)] and UL listed for Panic Exit or Fire Exit



How to identify the Von Duprin AX device

Look for the "AX" Prefix in the door schedule and/or specification. 22 In the field, look for the Compliance note on the UL-Label and the AX Device Label. Both labels can be found on the center case cover of the exit device as shown below



Contact Allegion today at 888.925.4359 or ax.allegion.com to learn how the AX device can help you provide accessibility without compromise.

	Series Specifications		AX94/955	Series Specif	ication	5		AX22 Ser	ies Specifications
Device types	AX98/99 - Rim AXXP98/99 - Rim		Device types	AX94/9547				Device types	AX22 - Rim AX2227 - LBR
	AX98/9927-LBR		Device functions	EO, DT, L, LDT,	LBE, LNL	a.		Device	EO, DT, NL, NLOP, L, LBE
	AX98/9950 WDC - LBL AX98/9949 - LBL & LBL-AFL		Device lengths	3'/4'			- 28	functions	EQ, D1, HE, HOOP, L, EBE
	- Concealed Vertical Cable Less B	ottom	Rating	Panic and Fire				Device lengt	hs 3/4
	Latch		Electric	LX - Latchbolt	monitor s	witch	_	Rating	Panic and Fire
Device unctions	EO, DT, NL, NLOP, L, LBE, LDT, L	NL	options					Electric options	LX - Latchbolt monitor switt RX - Pushpad monitor switt RX2 - Double pushpad
Device lengths	374		AX33/35A	Series Speci	fication	ns			monitor switch
Rating	Farvic and Fire	1	Device	AX33/35A - R	m				ALK - Alarmikit
ilectric options	EL - Electric latch retraction LX - Latchbolt monitor switch LXLC - Latchbolt monitor switch	1	types	AX33/3549 -1 - Concealed Ve Latch	1202 02000		moi	Mechanical options	GBK - Glass bead kit
	low current LXRX - Latchbolt pushpad moni LXRXLC - Latchbolt pushpad mo	tor	Device functions	EO, DT, NL, NU	OP, L, LBR	E, LIDT		Oogging options (Panic only)	Hex key dogging = Standar LD - Less dogging
	low current RX - Pushpad monitor switch		Device lengths	31/4			_		
	RXLC - Pushpad monitor switch		Rating	Panic and Fire	(33491B	(/&EL only)	-		
	low current RX2 - Double pushpad monitors	witch	Electric	EL - Electric lat			-		
	ALK - Alarm kit SS - Signal switch		options	LX - Latchbolt LXLC - Latchbo	monitor s	witch			
Mechanical	GBK - Glass bead kit			LXRX - Latchb	olt pushp	ad monitor	c.		
ptions	-2 - Double cylinder SNB - Sex bolts			LXRXLC - Lato low current					
	SEC - Security screws WP - Weep holes			RX - Pushpada					
Dogging	Hex key dogging = Standard			RXLC - Pushpa low current	sd manita	r switch			
options	CD - Cylinder dogging			RX2 - Double p ALK - Alarm kt		nanitar swi	tch		
Panic only)	DI - Dogging indicator LD - Less dogging			SS - Signal sw					
	SD - Special dogging	_	Mechanical options	GBK - Glass be SEC - Security	screws				
			Dogging	WP - Weep ho Hex key doggi	ng = Stan	dard			
6 J	A State of the second second		(Panic only)	CD - Cylinder o LD - Less dogg		an ca	_		
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Prefix	respond with the numbers abov	3 N/W	Device Type			ions.			
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Prefix Access EL Electril Latcht LXGX Latcht LXGXLC Latcht LXGXLC Latcht LXGXLC Pushp RX_ Pushp RX_ Douby SS_ Signal Must be specified Series 98 Series	stble Device clatch retraction bolt Monitor Switch bolt Monitor Switch Low Current bolt Poshpad Monitor Low Current ad Monitor Switch ad Monitor Switch e Pushpad Monitor Switch switch t may select more than one prefix.	3 N/A 27 47 49 4 EC DT NL NL NL NL NL DT L L BE	Device Type Rim Surface Vertic Concealed Ver Concealed Ver Concealed Ver Concealed Ver Dummy Tim Night Latch Night Latch Lever Lever - Blank	al Ród tical Rod tical Cable Optional Pull Escutcheon Dummy Trim		Procession of the second secon	Dook fo Door Stand Hand Right Left H Trim book fo	h v thish offerin Width land Default fing Hand Reverse and Reverse v trim/control	8
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Prefix Access EL Electri X Latch X Latch X Latch X Latch X Latch X Pushp RX Double SS Signal What be specified Series 99 Series 90 Series 90 Series 90 Series 91 Series 91 Series 91 Series 93 Series 93 Series 93 Series 94 Series 95 Se	state of the second with the numbers above abble Device c latch netraction solt Monitor Switch solt Monitor Switch Low Current solt Pushpad Monitor Low Current ad Monitor Switch ad Monitor Switch Low Current e Pushpad Monitor Switch switch t may select more than one crefts 98 - smooth 99 - grooved 94 - smooth 95 - grooved	3 N/A 27 49 4 EG DT NL NLOP L LBE LDT LNL	Pevice Type Rim Surface Vertici Conosaled Ver Conosaled Ver Function Exit Only Dummy Tim Night Latch Lever - Blank Lever, Rigid - Lever, Rigid -	al Ród tical Rod tical Cable Optional Pull Escutcheon Dummy Trim		Procession of the second secon	book to Door Stand Right Lett H Trim book to Leve	h v finish offenn Width land Default Jing Hand Reverse and Reverse v fram/control v fram/control	8
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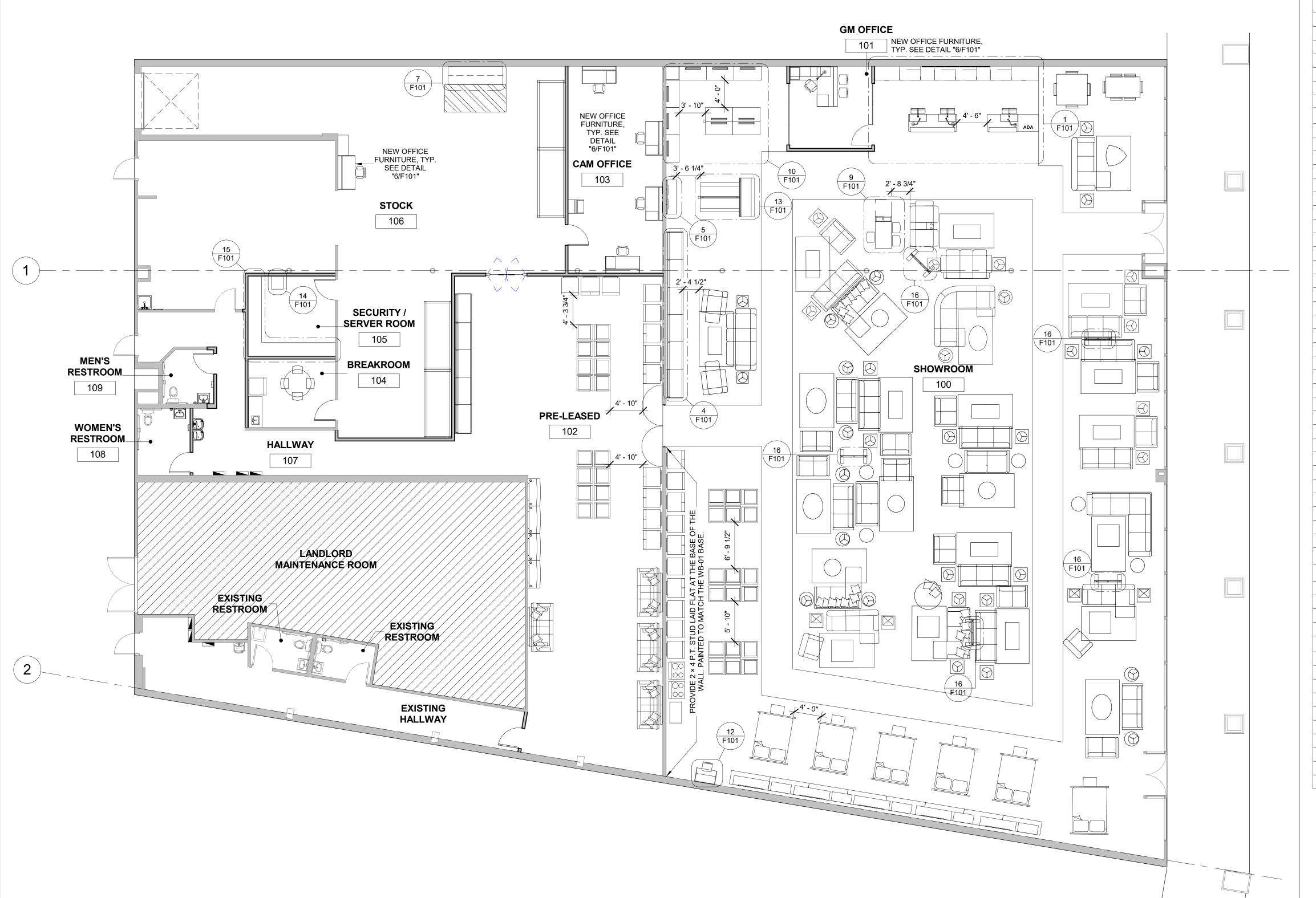
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KD **Kinetic Design** 29833 Santa Margarita Pkwy, Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build JOHN C SCHNEIDER ARC. 1215624 STAMP REVISIONS No. DATE DESCRIPTION CLIENT INFORMATION 9 OU573 / C0618 OLAKESHORE BLVD OH 44095 C0573 / SPECIFICATIONS 9850 - 29900 /ILLOWICK, C **AARON'S** ≥29 DRAWN CHECKED E.N. DATE 03/07/23 SCALE PROJECT NUMBER SHEET A902

PANIC HARDWARE SPECIFICATION Scale

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allegion.com/us



			DULE (UPDATE	,	CONTAINED HEREIN			
MODEL NUMBER	CATEGORY	SIZE	FINISH	DESCRIPTION	LED			
	CASH WRAP, 1 STATION		I WRAP	CASH WRAP POD WITH ONE POS STATION, ADA COUNTER	ITAII	K		
ARN-CW-001	POD - LEFT CASH WRAP, 1 STATION	SEE PLANS	LAMINATE SOLID SURFACE /	ON THE LEFT FROM EMPLOYEE SIDE CASH WRAP POD WITH ONE POS STATION, ADA COUNTER	CO			
ARN-CW-002	POD - RIGHT BEVERAGE / PRINTER	SEE PLANS	LAMINATE	ON THE RIGHT FROM EMPLOYEE SIDE	NO			
ARN-CW-003	STATION	SEE PLANS	SOLID SURFACE / LAMINATE	BEVERAGE / PRINTER STATION POD	DRAWINGS OR INFORMATION Wain			
ARN-CW-004	CASH WRAP, ADD-ON KIT	SEE PLANS	SOLID SURFACE / LAMINATE	CASH WRAP POS STATION ADD-ON KIT	ORN			
ARN-CW-005	CASH WRAP, 2 STATION POD - LEFT	SEE PLANS	SOLID SURFACE / LAMINATE	CASH WRAP POD WITH TWO POS STATIONS, ADA COUNTER ON THE LEFT FROM EMPLOYEE SIDE	Ĭ. Z	Kinetic	De	siar
ARN-CW-006	CASH WRAP, 2 STATION POD - RIGHT	SEE PLANS	SOLID SURFACE / LAMINATE	CASH WRAP POD WITH TWO POS STATIONS, ADA COUNTER ON THE RIGHT FROM EMPLOYEE SIDE	й О 29	9833 Santa Marg		
ARN-CW-007	CASH WRAP, MONOLITHIC	SEE PLANS	SOLID SURFACE / LAMINATE	CASH WRAP POD WITH TWO POS STATIONS, ADA COUNTER ON THE RIGHT FROM EMPLOYEE SIDE	SON	Rancho Santa M	largarita,	CA 92688
ARN-CW-008	CASH WRAP, OFFICE LOGO	SEE PLANS	PVC / SINTRA	WALL LOGO ON OFFICE WALL	Main	. 951.710.6334 \ Email. info@ki		
BUY OUT	LINE VOLTAGE MONOPOINT ADAPTER	SEE PLANS	WHITE	SEE REFLECTED CEILING PLAN ON SHEET A-401	DRA		Inclicaco	gri.bullu
BUY OUT	TRACK FIXTURE - PAR38 GIMBAL	SEE PLANS	WHITE	SEE REFLECTED CEILING PLAN ON SHEET A-401	USE SE	5	an	Th
BUY OUT	LED PAR38 LAMP	SEE PLANS	WHITE	SEE REFLECTED CEILING PLAN ON SHEET A-401	THESE	E ATE	OF	OL.
BUYOUT	ADA UNDERCOUNTER	32.06"H X 20.31"W X	STAINLESS STEEL		FOR .	<i>75¹¹</i>	******	• '0'
	REFRIGERATOR	22.25"D			۲	H. ···	OHN (
BUY OUT	MONITOR ARM	SEE PLANS	STAINLESS STEEL			SCI	HNEID	ER
BUY OUT	25" KEYBOARD PLATFORM	10.5" D X 25" W	BLACK					
BUY OUT	13" KEYBOARD TRACK	SEE PLANS	BLACK		2 2	AFLA AHU). 1215	624
		ELECTRO	ONICS AREA			No al		
ARN-EA 001	WALL SYSTEM STARTER	48" W x 84" H	BLACK		ASSUMES	ER	ED A	acrig
ARN-EA 002	WALL SYSTEM ADD-ON	48" W x 84" H	BLACK	ELECTRONICS AREA FIXTURE ORDER CONSISTS OF A (5)	ASS	- CI	ma	8
ARN-EA 003	WOOD DECK STARTER	50" W x 84" H	HYTEX INDUSTRIES, ASTRO	TYP. GONDOLA WALL UNIT SET, (1 WALL STARTER, 4 WALL ADD-ONS, 1 WOOD DECK STARTER, 4 WOOD DECK ADD ONS, 1 END PANEL SET)	IGN			
ARN-EA 003	WOOD DECK ADD-ON	48" W x 84" H	BLACK CARPET 48-SRO HYTEX INDUSTRIES, ASTRO	STARTER, 4 WOOD DECK ADD-ONS, 1 END PANEL SET) SEE STORE ORDER FOR ANY ADDITIONAL PARTS NEEDED FOR NON-TYP. ELECTRONICS AREA FIXTURES	DESIGN			
			BLACK CARPET 48-SRO	. S. MORTH . LELOTIONION ANEA FIXTURED	ပ္ STAM	IP		
ARN-EA 005	END PANEL SET	6" W X 84" H	BLACK HYTEX INDUSTRIES, ASTRO		KINET			
ARN-EA 006	ADJUSTABLE SHELF	48" W X 18" D	BLACK CARPET 48-SRO	TWELVE TYP. PER STORE, SEE PLANS FOR LAYOUT				
ARN-EA 007	TV PLATFORM	65" W X 24"D X12"H	BLACK CARPET 48-SRO	TWO TYP. PER STORE, SEE PLANS FOR LAYOUT	DESIGN.			
		COMPU	TER AREA		DES			
ARN-CA-001	METAL WALL FRAME	92-1/2"H X 48"W	BLACK METAL POWDER COAT					
ARN-CA-002	END PANEL SET	92-1/2"H X 6 1/2"W	BLACK SINTRA	COMPUTER AREA FIXTURE ORDER CONSISTS OF A (4) TYP. WALL UNIT SET,	KINETIC			
ARN-CA-003	SIGN PANEL	1'-1/4" H X 3'-11 7/8" W	WILSONART #7964K-12 SKYLINE WALNUT	(4 METAL WALL FRAMES, 2 END PANEL SETS, 29 FULL WALL PANELS OR 17 FULL WALL PANELS AND 4 HALF WALL	N N N N			
ARN-CA-004	FULL WALL PANEL	1'-1/4" H X 3'-11 7/8" W	WILSONART #7964K-12	PANELS) SEE STORE ORDER FOR ANY ADDITIONAL PARTS NEEDED	FROM			
ARN-CA-005	HALF WALL PANEL	5" H X 3'-11 7/8" W	SKYLINE WALNUT WILSONART #7964K-12	FOR NON-TYP. COMPUTER AREA FIXTURES				
ARN-CA-005	13" SHELF, STALK HOLES,	1'-1 1/2" D X 3'-11" W	SKYLINE WALNUT NORTHERN CONTOURS,	ONE TYP. PER STORE, SEE PLANS FOR LAYOUT	PERMISSION	RFVI	SIONS	3
	ADJ. HARDWARE		#9031 OYSTER BAY NORTHERN CONTOURS.			1 1		
ARN-CA-007	13" SHELF, ADJ HARDWAR		#9031 OYSTER BAY NORTHERN CONTOURS,	THREE TYP. PER STORE, SEE PLANS FOR LAYOUT		DATE	DESC	RIPTION
ARN-CA-008	(REMODEL)	1'-1 1/2" D X 3'-11" W	#9031 OYSTER BAY	REMODEL ONLY	WRITTEN			
ARN-CA-009	HARDWARE (REMODEL)	1'-1 1/2" D X 3'-11" W	NORTHERN CONTOURS, #9031 OYSTER BAY	REMODEL ONLY				
ARN-CA-012	SET OF SKYLINE WALNUT PANEL INSERTS	SEE PLANS	WILSONART #7964K-12 SKYLINE WALNUT	REMODEL ONLY	≥			
ARN-CA-013	COMPUTER BUNKER	SEE PLANS	SOLID SURFACE / LAMINATE	THREE TYP. PER STORE, SEE PLANS FOR LAYOUT	WITH			
ARN-CA-014	COMPUTER BUNKER WITH HOLES	SEE PLANS	SOLID SURFACE / LAMINATE	ONE TYP. PER STORE, SEE PLANS FOR LAYOUT				
BUY OUT	BLACK PLUG STRIPS				USED			
		OFFIC			BE			
SL7136DI	CONFERENCE DESK	71" W X 36" D X 29.5" H	AMERICAN ESPRESSO	ONE TYP. PER STORE, SEE PLANS FOR LAYOUT				
SL4824DS	48" DESK SHELL	48"W X 24"D X 29.5"H	AMERICAN ESPRESSO	FOUR TYP. PER STORE, SEE PLANS FOR LAYOUT	U Z			
			AMERICAN ESPRESSO)N	
SL6030DS	60" DESK SHELL	60" W X 30" D X 29.5" H						
SL4824R	48" DESK RETURN	48" W X 24" D X 29.5" H	AMERICAN ESPRESSO	TWO TYP. PER STORE, SEE PLANS FOR LAYOUT	HEREIN		300	õ
ARN1105-PE	PENCIL DRAWER		N/A	FOUR TYP. PER STORE, SEE PLANS FOR LAYOUT			SUITE	30339 78) 402-3000
9336P-4F1H	4 DRAWER FILE	36" W X 18" D X 62.25" H	BLACK	ONE TYP. PER STORE, SEE PLANS FOR LAYOUT	ONTAINED		SUI	39 402-:
19FP23FF	2 DRAWER DESK FILE		BLACK	TWO TYP. PER STORE, SEE PLANS FOR LAYOUT	INO		, AΥ, §	8) 4
OTG 10901 B	MANAGERS CHAIR		N/A	FOUR TYP. PER STORE, SEE PLANS FOR LAYOUT	U U		MA	5 A ((67
6621	DUET CHAIR		SEAT: BLACK; FRAME: CHROME	THREE TYP. PER STORE, SEE PLANS FOR LAYOUT	VTIO		\RK	
		SHOV	VROOM		THE INFORMATION		400 GALLERIA PARKW	ATLANTA, GA PHONE NUMBER: (6
ARN-SR-001	FLOATING VIGNETTE WALL	SEE PLANS	TIGER Drylac Metallic Powder Coatings		ЧF0		RIA	NUI
	- STARTER UNIT		P14 - Glimmer 49 TIGER Drylac		⊆ Ψ		ШЦ	'≺⊔́
ARN-SR-002	- ADD-ON UNIT	SEE PLANS	Metallic Powder Coatings P14 - Glimmer 49 70230		ч Т С		GAI	ίομ
ARN-SR-003	ACRYLIC PANELS	4'-0" W X 4'-0" H			S OR		00	ā
ARN-SR-004	36" X 12" RISER	3'-0" W X 2'-0" D X 12" H	HYTEX INDUSTRIES, ASTRO BLACK CARPET 48-SRO		DOCUMENTS		4	
ARN-SR-005	48" X 12" RISER	4'-0" W X 2'-0" D X 12" H	HYTEX INDUSTRIES, ASTRO BLACK CARPET 48-SRO					
	1	FEATL	JRE AREA		QCI			
ARN-FA-003	CEILING TRELLISES	SEE PLANS	FAUX WOOD PAPER TO MATCH WA #79337-07					
			CAFELLE LAMINATE		THESE			
BUY OUT	TRACK - 6' SINGLE CIRCUIT	-	WHITE		OF TI			
BUY OUT	GIMBAL	-	WHITE					
BUY OUT	LED PAR 38 LAMP TCP	-	WHITE		ANY USE			
BUY OUT	EXTENSION WANDS	12", 18", 24", 36", 48"	WHITE	SEE STORE ORDER REQUEST FOR SIZE AND QUANTITY				
BUY OUT	TRACK - FLOATING END FEED	-	WHITE		GN.			
BUY OUT	TRACK - T-BAR CLIP	-	WHITE		DESIGN.			
BUY OUT	CROWN / PICTURE MOLDING KIT	-	-					
BUY OUT	PICTURE MOLDING KIT	-	-		NET	\cap		
	1	BREA	KROOM		F KII	<u>8</u> 7		
ARN-BR-001	BREAKROOM CABINET	5'-0"" W X 2'-1" D	NEVAMAR - #VS6002T VOUS TEMPEST	ONE TYP. PER STORE, SEE PLANS FOR LAYOUT	Ō	CO618 RE BLVI		
					KE THE SOLE PRO	RON'S C0573 / C0618 50 - 29900 LAKESHORE BLVD	v, UH 44095	

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DATE

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SHEET

PROJECT NUMBER

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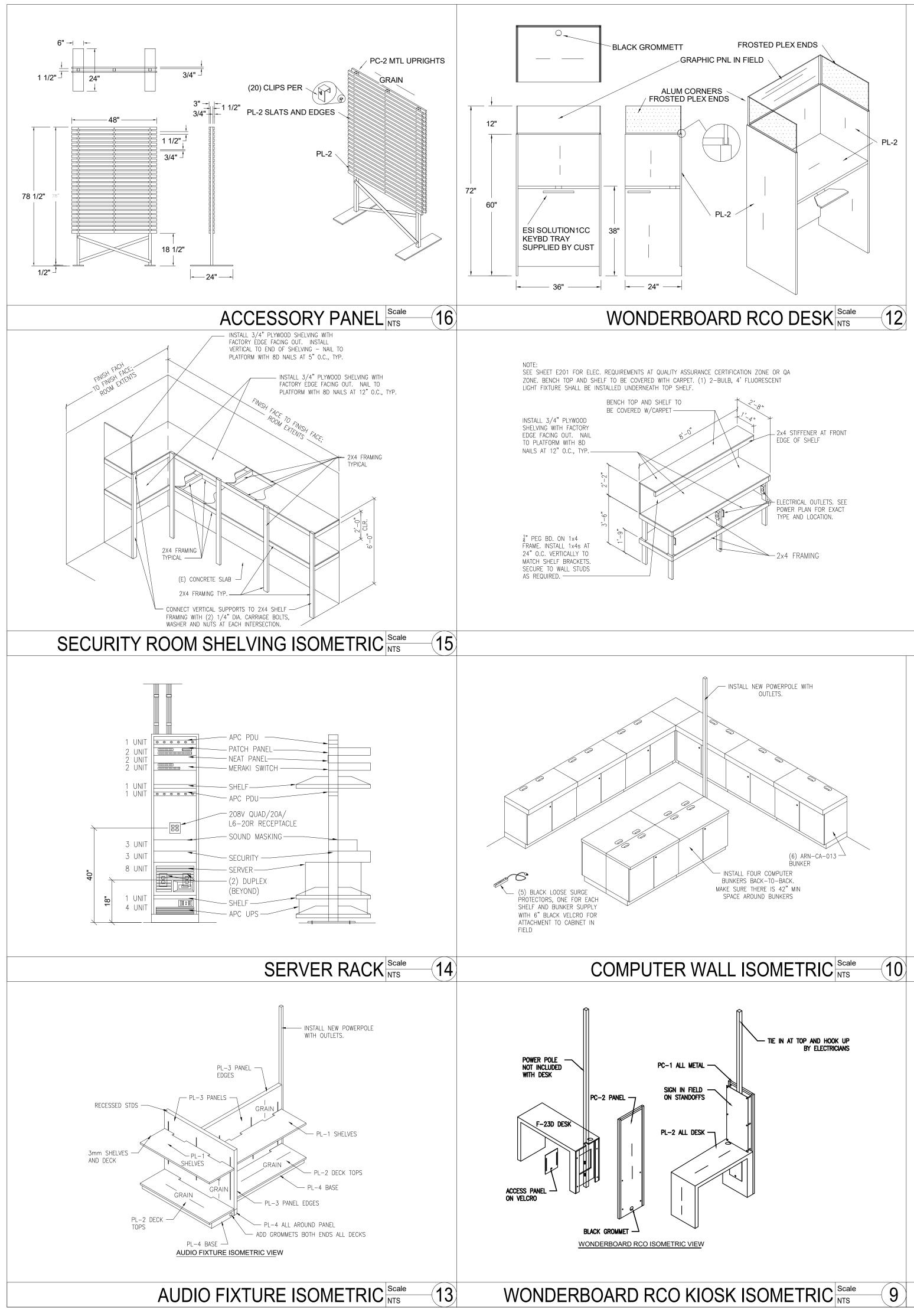
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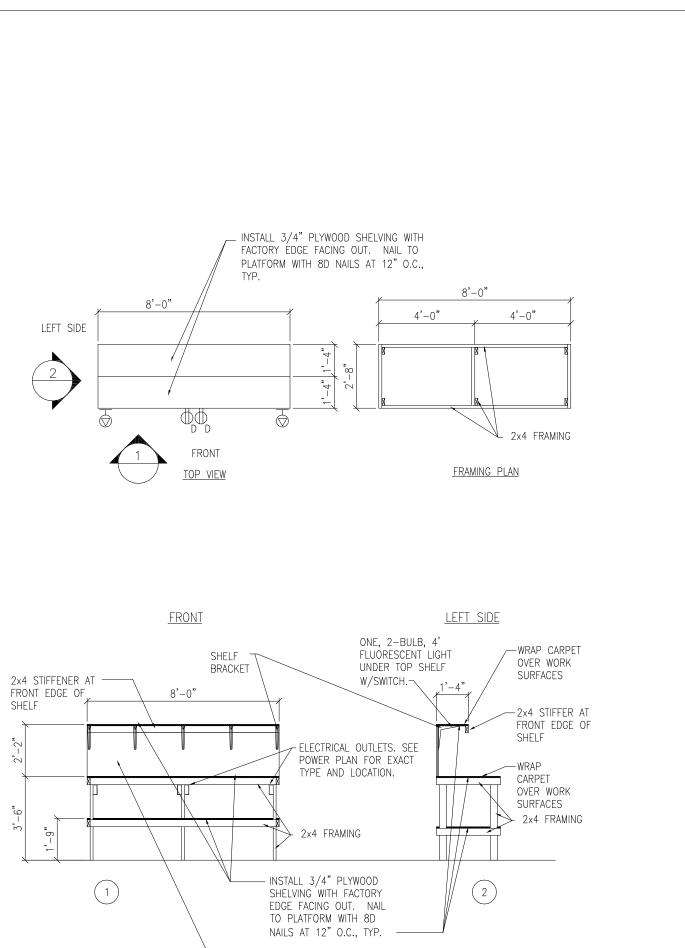
FIXTURE

03/07/23

AS NOTED

CHECKED





 $-\frac{1}{4}$ " PEG BD. ON 1x4 FRAME. INSTALL 1x4s AT 24" O.C. VERTICALLY TO MATCH SHELF BRACKETS. SECURE TO WALL STUDS AS REQUIRED.

QA BENCH Scale



INSTALLED

I FFT HAND

DESK

PENCIL-

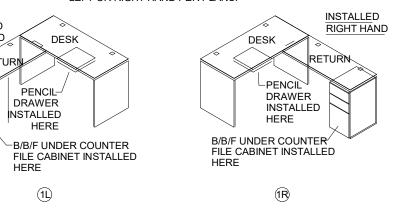
DRAWER

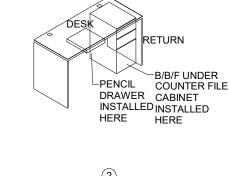
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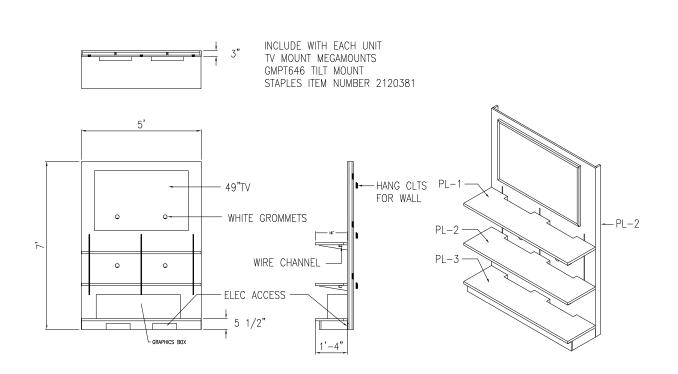
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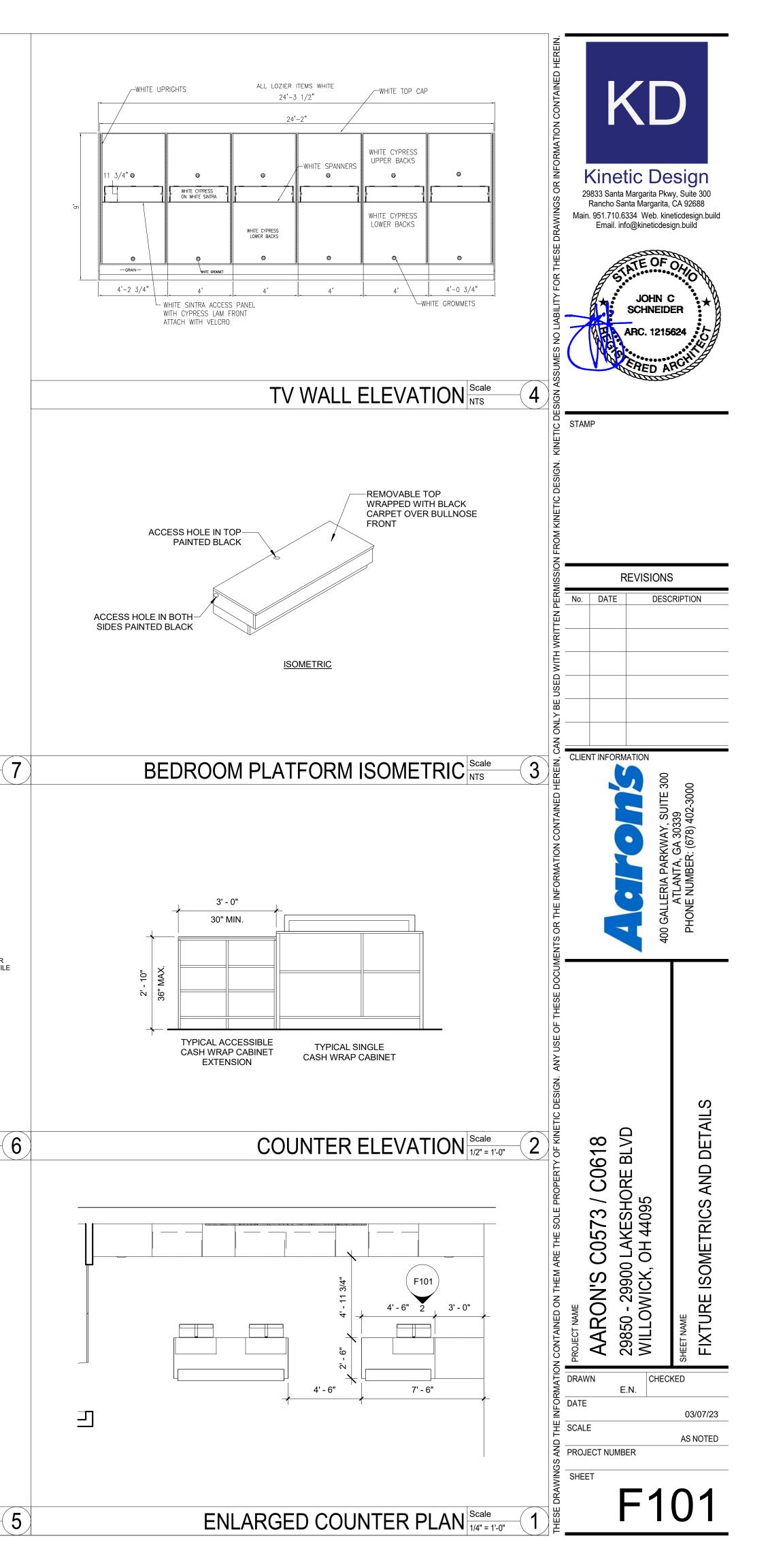




OFFICE FURNITURE



GAMING FIXTURE



Speci	fication Index	C	Tomporary Hos
Sectio	on 01000 Special Conditions on 01310 Project Management And Coordination	C.	Temporary Hea building. Use n
Sectio	n 01330 Submittal Procedures n 01400 Quality Control n 01500 Temporary Construction Facilities	D. E.	Drinking Water Temporary Toil
Section Section	n 01600 Material and Equipment n 01770 Closeout Procedures		condition. Rem
Sectio	n 06000 Carpentry n 06400 Laminate Counter System n 07131 Self-Adhering Sheet Waterproofing	F.	Temporary Enc be glazed in lie
Sectio	on 07200 Building Insulation on 07245 Direct to Masonry Acrylic Finish System on 07500 Membrane Roofing System	G.	On-Site Fire Pr extinguishers o
Section Section	on 07600 Flashing and Sheet Metal on 07710 Roof Accessories	H.	Temporary Bar by code and lav
Sectio	n 07920 Masonry Joint Sealants n 07925 Joint Sealants n 08200 Doors		Contractor will subcontractors.
Section Section	on 08305 Access Doors on 08360 Overhead Doors	<u>Secti</u>	on 01600 Materia
Sectio	n 08400 Aluminum Storefront System n 08710 Finish Hardware n 08800 Glazing	A.	Materials delive to reject any ma
Sectio	on 09545 Concrete Slab Testing on 09120 Lay-In Ceiling System on 09250 Gypsum Drywall	Saati	on 01770 Closes
Sectio	in 09250 Gypsun Drywan in 09550 Wood Flooring in 09650 Resilient Flooring	A.	on 01770 Closeou At completion c
Sectio	on 09660 Rubber Flooring on 09680 Carpet on 09900 Painting		maintenance a
Section Section	on 10536 Awnings on 10800 Toilet and Bath Accessories	В.	Periodic observerse responsible des the Contractor.
Sectio	n 12300 Trade Fixtures	C.	At Project Clos Sub-Subcontra
<u>Section</u>	on 01000 Special Conditions		Sub-Subcontra
A.	Aarons Inc. Contract for Construction, General Conditions to the Contract for Construction and Project Addendum Conditions apply and govern this project.		on 06000 Carpent
В.	Wherever the term "Contract" occurs in the documents, it shall refer to the provision in the Aaron's Inc. Contract for Construction Article 1.	A.	Structural lumb for repetitive us
C.	Wherever the term "Owner" or "Owner's Representative" it shall refer to the following: Aaron's Inc.	В. С.	Oriented Strand
	309 East Paces Ferry Road, NE	U.	(plywood).
	8th Floor	D.	Plywood Backir thickness indica
	Atlanta, GA 30305	E.	Miscellaneous stripping, and s
D. E.	Wherever the term "Contractor" occurs in the documents, it shall refer to the Contractor per the Contract. The Contractor shall coordinate his work and shall coordinate with any other separate contractors employed by the Owner, so as to avoid delays.	F.	wherever possi Bolt heads and
F.	Prior to a bid submission, the Contractor shall examine the premises and verify existing conditions and dimensions affecting the work under this contract. If	G.	Carpentry work
G.	discrepancies are discovered between dimensions or conditions shown in drawings and those actually existing, the Contractor shall report to the Owner's Representative and shall not proceed with the work until the Owner's Representative approves conditions and or changes. Prior to the start of work, the installer shall examine the work area and notify the Owner in writing of conditions which will adversely affect the execution, timely		trades. Doors a must engage p
0.	completion, and quality of his work. Do not proceed with the work until satisfactory conditions have been corrected. Start of installation will be construed as conclusive evidence that the existing conditions have been examined and are acceptable to the installed.	<u>Secti</u>	on 06400 - Lamin
Н.	If any of the provisions, plans, drawings or specifications are inconsistent with the Contract for Construction, The Contract for Construction shall govern and control.	A.	Contractor to in complete finish
I.	Before making any code-related deviations from the drawings and specifications, the Contractor shall give the Owner's Representative written notice specifying the proposed deviation, the costs involved, and the reason therefore. A change order shall be issued per the contract.	<u>Secti</u>	on 07131 Self-Ad
J.	Prior to signing the Contract, if required by the Owner, the Contractor shall obtain and pay for performance and payment bonds in the amount of 100 percent (100%) of the contract amount.	A.	Material shall b sheet shall be . rolls interwover
K.	Verify with Owner, designated locations for contractor's temporary field office, temporary sanitary facilities, refuse dumpster, and material/equipment tool storage.	B.	termination bar Acceptable Alte
L.	Verify with Owner, designated locations of Contractor's employee parking. Access route to the site, and access route to the work area within the building.	D.	1. Mira
M.	Contractor shall establish and maintain all utilities accounts and meters (gas, permanent power, water & sewage) under his name until Owner shall confirm in writing that such accounts have been permanently transferred into Owner's name. Contractor to be solely responsible for all required tap fees and perform all work required to complete each utility connection.		2. Carl 3. W. F 4. Ame 5. Pec
N.	It shall be the responsibility of the Contractor to locate all existing utilities whether shown herein or not and to protect them from damage. The Contractor shall bear the expense of repair or replacement of utilities or other property damages by operations in conjunction with the execution of the work.		6. Poly
О.	Contractor shall employ a licensed surveyor to lay out and establish lot lines, roof outside line and principal building lines as indicated on drawings. Contractor shall maintain all grades, lines, levels and benchmarks established, and shall assume complete responsibility for the layout of the work. Contractor to provide	<u>Secti</u>	on 07200 Building
	Certified Footings and Building elevations to Owner as part of sore out package.	Α.	Faced Mineral- retarder memb
<u>Section</u>	on 01310 Project Management And Coordination	В.	Interior Sound / scheduled on the
A.	Prior to beginning work, Contractor shall provide a construction schedule bar chart with specified completion date. Contractor shall adhere to this schedule and completion date in accordance with Contract.	C.	Install Batt insu
<u>Section</u>	on 01330 Submittal Procedures		1. Plac partitio
A.	Prior to ordering equipment or fabricating fixtures, Contractor shall submit to the Owner in triplicate, shop drawings, product data or samples, if required, which reflect dimensions, utility requirements and installation requirements consistent with the drawings., Contractor shall review Shop Drawings and shall solely ensure consistency to Owner's Specifications.		2. Trim 3. Insta
В.	The use of brand or trade names in describing materials or products is intended to set a minimum standard for those items. Owner must approve any		on 07245- Direct t
	substitutions in writing. Where "Or Equal" is used, Contractor must get owners approval in writing of the "Or Equal" manufacturers. If materials or products are specified by manufacture's name, trade name, or catalog reference without using the phrase "Or Equal", they shall be the basis of the proposal, without substitution, and shall be furnished under the contract unless changes by mutual agreement in writing. Where two or more brands are named, Contractor shall	А. В.	Description: Sy Warranty
0	make a choice.	D.	1. Pro
C.	For Construction details not shown, use the manufacturer's approved shop drawings / data sheets in accordance with the Project Specifications.	C.	Manufactures
			1. Fine 2. ACF
A.	Contractor shall be solely responsible for Quality Control of the work and shall maintain quality control over suppliers, manufacturers, products, services, site conditions and workmanship, to produce work of specified quality.	D.	3. TAF Basis of Desigr
В.	The Owner shall hire testing lab for required testing required by the specifications. Additional testing and inspection required by laws, ordinances, rules, regulations, codes or orders of any public authority having jurisdiction or whether performed by Contractor for quality control shall be at Contractor's expense.	E.	Materials
C.	Minimum testing shall include but not be limited to :		1. Adh 2. Port
	1. Pavement subgrade Compaction 2. Building Pad Compaction 3. Concrete Cylinder Break Test		3. Wat 4. Fine
	4. Floor Flatness testing 5. Slab Moisture Testing		compa 5. Star 6. Corr
	6. Roof installation testing		7. Prim 8. Fine
	Temporary Construction Facilities		additiv 9. Insu
A.	Contractor's Field Office Building: Provide a substantial, weather-tight office building on site. Have the office fully operable, with power and telephone service connected, from the start of construction until project is completed and closed out.	F.	Preparaton: 1. Exa
В.	Temporary Utilities: the Contractor will furnish Water and electricity for construction. Determine where these services will be available, make temporary connections as required, and remove upon completion of the work. Costs for temporary electrical service and power charges to be paid 100% by the Contractor until date of Substantial Completion.		releasi 2. Unit Assem tolerar

2. Owner shall pay 100% of utilities after the date of Substantial Completion.

porary Heat: Furnish temporary heat, including fuel and power, as required to protect materials and work from dampness and cold and to dry out the ding. Use methods that will not adversely effect installed materials.

nking Water: Furnish from a proven safe source for all those connected with the work.

nporary Toilets: Provide chemical type toilets, adequate in number for all those connected with the work. Locate when work is started; keep in sanitary dition. Remove from site upon completion of work or sooner, if and when permanent toilets are made available.

nporary Enclosures: Provide wood batten doors and transparent plastic covered windows for exterior wall openings of building until it is dry. Windows may lazed in lieu of covering, if glass is protected.

Site Fire Protection: From the time the project starts until its completion and acceptance by the Owner, the Contractor shall maintain adequate fire nguishers on the premises, readily available to his workmen, for the protection of the building and its contents.

nporary Barricades and Fences: Contractor shall provide fences and all safeguards necessary for the convenience and protection of the public, as required code and law enforcement regulations. Keep abutting streets and other thoroughfares open to traffic, using only portions of streets allowed by permit. ntractor will be responsible for damage or injury occurring to either persons or property through carelessness or neglect by himself, his employees, or ocontractors.

500 Material and Equipment

terials delivered to and stored at the job site shall be handled and stored so that no components shall be damaged in any way. The Owner reserves the right reject any material that has been damaged because of improper delivery, storage or handling.

70 Closeout Procedures

ompletion of work, resilient floors shall be waxed and buffed. All carpet is to be vacuum cleaned. Contractor shall assemble and transmit to the Owner all ntenance and operation manuals, warranties, and keys, and shall demonstrate to the Owner the usage of equipment.

odic observation of construction may be made by a licensed Architect or Civil Engineer. Certificate of Completion containing the signature(s) of the ponsible design professional(s) shall be presented to the inspector at time of final inspection for Occupancy if required and shall be the sole responsibility of Contractor.

Project Closeout, the Contractor shall provide to the Owner all "as-built" plans, all guarantees, warranties and operating manuals, names of all Subcontractors, -Subcontractors and material suppliers and roof warranties as further defined in the Aaron's Inc. General Conditions.

000 Carpentry

uctural lumber, blocking, and nailers shall be new, dry, sound southern pine #2 or better with a maximum, moisture content of 19 %, minimum FB=1400 PSI repetitive use.

ented Strand Board shall comply with DOC PS 2.

ere fire-retardant-treated materials are indicated, provide materials that comply with performance requirements in AWPA C20 (lumber) and AWPA C27 wood).

wood Backing Panels: For mounting electrical or telephone equipment, provide fire-retardant-treated plywood panels with grade, C-D Plugged Exposure 1, in kness indicated or, if not otherwise indicated, not less than 3⁄4" thick. Panels shall be mounted on 3⁄4" furring.

cellaneous lumber shall be construction grade light framing size lumber for support or attachment of their work including bucks, nailers, blocking, grounds oping, and similar member. Individual plywood sheets shall not be less than 2'-0" in the least dimension nor less than 8 square feet in area. Use full sheets erever possible. All structural plywood shall be DFPA grade stamped with exterior glue and specified by the American Plywood Association.

heads and nuts bearing on wood shall have metal washers. Bolt holes in wood shall be drilled 1/32" to 1/16" in diameter larger the nominal bolt diameter.

pentry work shall conform to the best standards of practice. Work shall be laid out in accordance with the drawings, and to accommodate work of other les. Doors and hardware shall be installed so that doors will swing easily, quietly and freely, and close accurately against stops without binding. Latch bolts st engage positively with strikes when doors are closed.

100 - Laminate Counter System

ntractor to install Owner provided countertop systems as indicated on the drawings and approved by the Owner. Provide accessories as required for nplete finished installation.

131 Self-Adhering Sheet Waterproofing

terial shall be a factory manufactured combination of a polyethylene sheet and rubberized asphalt bonded together to form a membrane. The polyethylene eet shall be .004" thick and black. Sheet shall be coated on one side with a .056" minimum thick layer of rubberized asphalt. Membrane shall be furnished in interwoven with release paper. Waterproofing membrane shall be "Bituthene 3000" as manufactured by W. R. Grace Co. with stainless steel mechanical ination bar and liquid membrane coating sheet terminations.

eptable Alternate manufacturers:

- 1. Mirafi; Miradri 860/861
- 2. Carlisle Corporation, CCW 701. 3. W. R Meadows,., Inc.; Mel-Rol.
- 4. American Hydrotech, Inc.; VM 75. 5. Pecora Corporation: Duramem 700-SM
- 6. Polyguard Products, Inc.; Polyguard 650.

200 Building Insulation

ed Mineral-Fiber Blanket Insulation: ASTM C 665, Type III, Class A; Category 1, faced with foil-scrim-kraft, foil-scrim, or foil-scrim-polyethylene vaporrder membrane on one face. R = 13, flame spread, smoke-developed indices of 25/50. Owens Corning, Johns Manville, Certainteed.

rior Sound Attenuation: Provide 3-1/2" unfaced glass fiber batts for interior sound attenuation purposes at walls, ceilings and other locations where shown or eduled on the Drawings.

all Batt insulation in accordance with Manufacturer's Instructions:

1. Place Batt insulation in partitions tight within spaces around cut openings, behind and around electrical and mechanical items within or behind partitions and tight to items passing through partitions.

2. Trim insulation neatly to fit spaces. Fill gaps or voids with insulation. 3. Install insulation with factory applied membrane facing warm side of building space.

45- Direct to Masonry Acrylic Finish System

cription: System consists of Base Coat, Reinforcing Mesh and Finish Coat without EPS.

rranty

1. Provide Manufacture's five (5) year finish materials coatings warranty for Surfacing System installations.

1. Finestone Surfacing System for Unit Masonry Wall System by Finestone

2. ACF: by Parex 3. TAFS by Dryvit Systems Inc

sis of Design: Finestone

terials

- 1. Adhesive Base Coat: Finebuild Base Coat: 100% acrylic base coat, field-mixed with Portland cement; manufactured by Finestone. 2. Portland cement: conform to ASTM C150, Type I, II, or I/II, grey or white; fresh and free of lumps.
- 3. Water: Clean and potable without foreign matter.
- 4. Finestone Reinforcing Mesh: MIL-Y-1140G; Balanced, open weave glass fiber reinforcing mesh; twisted multi-end strands treated for
- compatibility with Finestone Surfacing System components. 5. Standard Mesh 4: standard weight, 4.5 oz/sq yd.
- 6. Corner Mesh: Double layer of standard mesh for reinforcing at exterior/interior corners.
- 7. Primer: Sanded Primer.
- 8. Finestone Finish Coat: Pebbletex: 100% acrylic resin finish; air cured, compatible with Base Coat; with supplemental biocide and mildewcide additive. Finish color factory-mixed; color as selected on drawings; Finish texture CLS 1.5. 9. Insulation Board used for Foam Shapes: Expanded Polystyrene meeting the Acrylic Finish System Manufacturer's Specification for Insulation Board.

paraton:

1. Examine surfaces to receive the Surfacing System and verify that substrate and adjacent materials are dry, clean, cured, sound and free of releasing agents, paint, or other residue or coatings. Verify substrate surface is flat, free of fins or planar irregularities. 2. Unit Masonry Wall System shall be installed with struck joints and installed in horizontal line and plumb within 1/4" per 20 feet per Unit Masonry Assembly Section. Masonry shall be cured a minimum of 7 to 10 days. Contact Owner and Architect if substrate exceeds installation tolerances

3. Coordinate location of masonry control joints, through wall flashing and weeps penetrating Finish System with Architectural Drawings.

Application: G

a. Immediately place Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base Coat by troweling from the center to the edges. b. Ensure Reinforcing Mesh is continuous at corners, void of wrinkles and embedded in Base Coat so that no mesh color is visible.

c. Allow the base coat mixture to cure a minimum of 4 days between coats until completely dry. Use this procedure to minimize the appearance of the mortar joint pattern in the finished work.

4. Primer:

a. Apply primer to the Reinforced Base Coat by brush, roller or spray.

b. Allow primer to dry thoroughly (approximately 6-8 hours) prior to application of Finish Coat.

5. Finish Coat:

- d. Float Finish Coat to achieve final texture.

6. Joints:

installed against the base coat per Joint Sealant section.

Section 07500-Membrane Roofing System

A.	Roofing System Design: Provide a membrane roofing system that is identical to systems that have been successfully tested by Factory Mutual to confor Factory Mutual Standard 1-28 to resist uplift pressure calculated shown on Structural Drawing S0.0 "General Notes" for Wind Speed, Wind Exposure and Component and Cladding (Wind Pressure Schedule). If design information is not shown on Structural drawings, roof design loading shall comply with A
В.	Provide all roofing accessories from same manufacturer to maintain a certified, warranted roofing system.
C.	Submittal:
	1. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other Work.
	a. Base flashings and membrane terminations.
	b. Tapered insulation, including slopes.
	c. Insulation fastening patterns.
	 Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Roofing System Design" Article. Submit evidence of meeting performance requirements. Warranties: Special warranties specified in this Section. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.
D.	Warranty:
	 Provide 20 year manufacturer's warranty. The warranty shall cover the membrane, insulation, flashing, adhesives, fasteners, sealants and a miscellaneous items required for a complete roof installation as well as labor cost to remove and replace defective materials. The Contractor shall issue a warranty for a period of two years from the date of the Substantial Completion. Under this warranty, the Contra shall remedy any defects resulting from faulty materials or workmanship in the roofing system. Repairs shall be made by the Contractor at this own cost and expense and shall include the roofing membrane and all metal flashings, wall flashings, curb, pipe and accessory flashings provided by or under the supervision of the contractor as may be necessary to maintain the roof in a watertight condition.
E.	Roofing shall be Firestone Ultraply TPO 45 mil, White, Fully Adhered Membrane Roofing System. Install as per manufacturer's published specifications
	1. Note to Designer: Verify with Aaron's Project Manager, Roofing Material and Color.
F.	Polyisocyanurate Board Insulation: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces.
	 Manufacturers: as approved by roofing manufacturer. Insulation: Minimum "in-service" average of R-20 with minimum thickness of 1" R-value used to calculate total thermal resistance shall be 5 per inch (25 mm) of thickness to arrive at a total "in-service" value. Provide insulation by one manufacturer as required to maintain specified warranty. Insulation shall be compatible with deck. Provide slip sheets and accessories as required to make insulation compatible with conditions and specified warranty. All polyisocyanurate insulation shall be produced using non-ozone-depleting hydrocarbon blowing agents.
G.	Field Quality Control
	 Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepareports. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and subm to Architect. Notify Owner 48 hours in advance of date and time of inspection. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply w specified requirements. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
07600) Flashing And Sheet Metal
^	Elashing Materials
	EPAKTORIA WAARAATAIN

Flashing Materials Α.

- 1. Galvanized Sheet Steel
- b. A.S.T.M. A-93.
- c. Armco "Zinc Grip", Republic "U-Lay" or approved equal.
- d. Minimum 24-gauge thickness

07710 Roof Accessories

- A. Curb Mounted Roof Hatch:
 - 1. Manufacturer: Bilco or approved equal
 - a. Model S-50, primed finish.
 - b. Size: Provide 36 inch x 30 inch with hasp, eye, and padlock.

1. General: Apply Finestone Surfacing System materials to Unit Masonry Wall System in accordance with current Finestone product bulletins. 2. Finestone Base Coat/Reinforcing Mesh: Base Coat / Leveling Coat shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible at a minimum thickness of 1/16" to maximum thickness of 1/4".

d. Apply secondary coat as required to provide level 1/8" thick minimum system base coat.

3. Mechanically fasten Cement Board Accent bands and bond supplemental EPS shapes as indicated on the drawings. Bond shapes to dry reinforced base coat using Base Coat / Adhesive. Allow 24 hours to dry.

a. Apply and level Finish Coat during same operation to minimum obtainable thickness consistent with uniform coverage.

b. Maintain a wet edge on Finish Coat by applying and texturing continually over the wall surface.

c. Work Finish Coat to corners, joints, or natural breaks and do not allow material to set up within an uninterrupted wall area.

e. Sealer: Install manufacturer's UV stabilized, mildewcide and algicide Matte Clear Sealer to all surfaces.

a. Extend base coat 1/2" into horizontal and vertical termination joints. Finish Coat shall be installed flush with joint surface and backer rod and sealant

mbrane roofing system that is identical to systems that have been successfully tested by Factory Mutual to conform with uplift pressure calculated shown on Structural Drawing S0.0 "General Notes" for Wind Speed, Wind Exposure and ure Schedule). If design information is not shown on Structural drawings, roof design loading shall comply with ASCE 7. me manufacturer to maintain a certified, warranted roofing system.

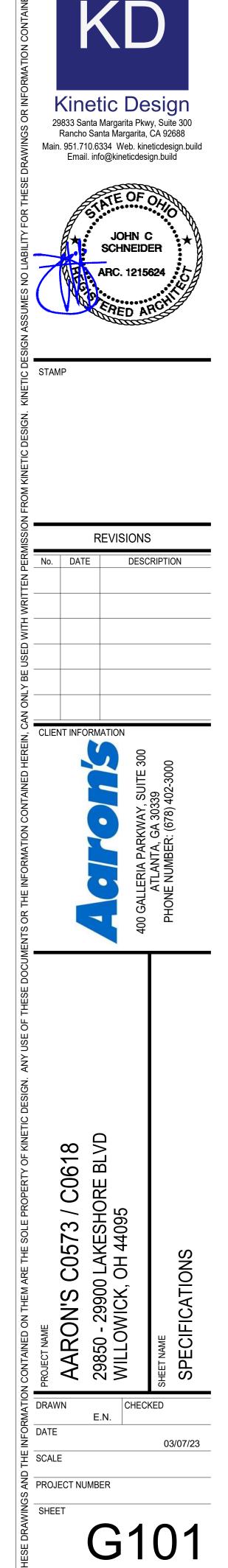
engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepare test

nge for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report

cting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified

a. Hot dipped zinc coated sheet steel; 1 1/2 oz. per sq. ft. coating treated to hold paint.

c. Install on fixed ladder below hatch cover Model 1 LadderUP safety post as manufactured by The Bilco Company, New Haven Connecticut or equal. Device shall be manufactured of high strength steel with telescoping tubular section that locks automatically when fully extended. Upward and downward movement shall be controlled by a stainless steel spring balancing mechanism. Finish shall be black enamel. Unit shall be completely assembled with fasteners for securing to the ladder rungs in accordance with the manufacturer's instructions.



^{1.} Except for telephone service, furnish electric service and utilities, and pay electric and utility costs for Owner's on-site job shack through the date of Substantial Completion.

07920 Masonry Joint Sealants

Electrometric Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates. Stain-Test-Response Characteristics: Where electrometric sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project. В. Single-Component Neutral-Curing Silicone Sealant (low modulus):

A. Provide electrometric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates

1. Uses a. Masonry to steel door frames. b. Masonry to aluminum storefront and curtain wall. c. Concrete/masonry to concrete/masonry. d. Direct to Masonry Acrylic Coatings 2. Type and Grade: S (single component) and NS (nonsag). Products: F a. Tremco; Spectrem 3. b. GE Silicones; SilPruf SCS2000 c. Pecora Corporation; 864 d. Pecora Corporation; 890. Ι. e. Polymeric Systems Inc.; PSI-641. f. Sonneborn, Division of ChemRex Inc.; Omniseal. 07925 Joint Sealants Κ.

A. Latex Sealant:

- 1. Uses: General purpose interior and exterior caulking and as a back bedding glazing compound. Acoustical seal in the construction of interior walls ceilings and floors to reduce Sound Transmission Class (STC) of partition walls. Interior joints that will be painted such as door and window frame perimeters and precast concrete plank joints.
- 2. Type and grade: ASTM C 834, Type P, Grade NF
- 3. Silicone-Emulsion Sealant: "Trade Mate Paintable Glazing Sealant," Dow Corning Corp.
- 4. Products:
- a. Tremco; Tremflex 834.
- b. Pecora Corporation; AC-20+
- c. Sonneborn, Division of ChemRex Inc.; Sonolac
- Β. Sanitary Sealant
 - 1. Uses: Weathertight seal to glass, metal, porcelain, ceramic and most painted surfaces. White and Clear colors can contain a fungicide making the sealant suitable for use in bathrooms, spas and similar applications where joints need protection against fungi and bacteria.
 - 2. Type and Grade: S (single component) and NS (nonsag).
 - 3. Single-Component Mildew-Resistant (Sanitary) Acid-Curing Silicone Sealant
 - 4. Products:
 - a. Tremco; Tremsil 200 (White or Clear).
 - b. Dow Corning Corporation; 786 Mildew Resistant.
 - c. GE Silicones; Sanitary SCS1700.
 - d. Pecora, 898 Silicone-Sanitary Sealant.

Section 08200-Doors

A.	Hollow metal door and frame materials and insulation shall conform to the standards of the steel door institute (SDI). Doors shall be Amweld, Ceco, Steelcraft, or approved equal doors.		hardv hardv cutou
	1. Exterior Doors shall be flush metal 16 gauge.	F.	Morti
	2. Interior Doors shall be flush metal 20 gauge unless noted otherwise.	1.	subs
В.	Core Construction:		indus
	1. Interior Doors: Manufacturer's standard kraft-paper honeycomb that produces doors complying with ANSI A250.8.	G.	Set tl instru
	2. Exterior Doors: Manufacturer's polystyrene that produces doors complying with ANSI A250.8.		to pe
C.	Frames for all doors shall be 16 gauge and shall include reinforcement, wall anchors, security reinforcing, base anchors and silencers in frames.	Н.	Prior remo
D.	Exterior doors shall have no pre-drilled lockset and or door level holes (Blank cover plates covering holes are not acceptable).		
E.	Interior wood doors in welded metal frames shall be solid core stain grade birch machined to fit metal frames. All interior wood doors will be finished with 2 coats of clear satin polyurethane.		0 Glazin
		Α.	Glazi
<u>08305</u>	Access Doors		

- Manufacturer: Karp
- B. Configuration:
- 1. Frames: 16 gage (.0598 inch) sheet steel with flange suitable for adjacent material. 2. Doors: 14 gage (.0625 inch) sheet steel. 3. Door Type: Flush panel. 4. Locking Devices: Key operated Cylinder Locking Device 5. Finish: Primed Section 08360-Overhead Doors A. Overhead Door Design: 1. Overhead door shall be designed to resist wind pressure shown on Structural Drawing S0.0 "General Notes" for Wind Speed, Wind Exposure and Component and Cladding (Wind Pressure Schedule). If design information is not shown on Structural drawings, design loading shall comply with ASCE7 2. Manufacturer: Overhead Door Corporation perpendicularly from outer surfaces of glass lites at unit's edge. 3. Model: Series 620, F-265 Flat Slat, 18 gauge. Provide standard steel angle track installation with chain hoist, locking hasp and bottom rail slide bolts on each side. 4. Color: Manufacturer standard Grey.
- Security Entrance Rolling Door:
 - 1. Affiliated Construction Specialists, Inc. Surface Mounted to aluminum storefront framing. Rollup security door shall match door width and height including transom above. Top of hood to align with top of transom. Provide pull down strap to elevation 7'-0".

Section 08400-Aluminum Storefront System

Storefront System Design: Storefront and Glazing system shall be designed to resist wind pressure shown on Structural Drawing S0.0 "General Notes" for Wind Speed, Wind Exposure and Component and Cladding (Wind Pressure Schedule). If design information is not shown on Structural drawings, design loading shall comply with ASCE 7.

1. Note to Designer: Verify if Hurricane Requirements apply to specific project site. This may include projects within 10 miles of the coast line along the Gulf of Mexico and south Atlantic states and will require storefront and glazing systems meeting higher design requirements per the building code.

Submit color sample to Architect and Owner for approval.

Kawneer Tri-FAB 451 Center Set Outside Glazed Non-thermal System - to be installed as per manufacturer's requirements and as specified herein (Oldcastle Glass Vista Wall FG -3000 or YKK Yes 45 Fl are acceptable equals).

1. Finish to be Clear Anodized.

2. Window glazing to be 1" clear insulated tempered glass. Door glazing to be 1/4" clear tempered glass. Doors to be medium-style standard doors. Finish of doors to match storefront finish. Hardware for aluminum doors and doorframes shall be by the entrance manufacturer. See Door Hardware schedule for required hardware.

Doors shall include reinforcement brackets with bolts and screws, and shall be MIG welded. Doors shall have snap-in-stops with bulb glazing gasket both sides of glass. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism, located in the top rail near the lock stile, which provides minor clearance adjustments after installation. Right door to have mail slot @ 60" a.f.f. to center.

A hard-backed poly pile weather strip shall be installed in both stiles of center-hung pair of doors. Offset pivoted doors shall have weather-stripped at frame jambs and header. The active meeting site of all pair of doors shall have an adjustable astragal with double line of weather-strip. Door bottom rail shall receive a concealed weather-strip insert.

Mail Slot: CRL 2-5/8" x 12-1/8" Satin Anodized Standard Mail Slot

Security Grill: Affiliated Construction Specialties Inc. Architectural Security Grid Systems, Color White. General Contractor to provide field measurements to

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be prefinished mill finish.

All glazing and storefront work shall be set level, square, plumb and proper elevation in alignment with other work in accordance with the manufacture's installation instructions and approved shop drawings. All joints between entrance framing and the building structure shall be sealed in order to secure a watertight installation. Upon completion of the installation of the entrances, it shall be the Contractor's responsibility to make all necessary final adjustments to obtain normal operation of each door and it's mechanical hardware.

The glazing contractor shall furnish all necessary materials, labor and equipment for the complete installation of aluminum entrance doors, doorframes and hardware and glazing system as detailed on the drawings and specified herein. It is the sole responsibility of Contractor to ensure that all required storefront specifications are met.

After installation, the Contractor shall adequately protect exposed portions of the aluminum entrance work from damage by grinding and polishing compounds, plaster, lime, ASID, cement or other containments. The Contractor shall be responsible for final cleaning.

Section 08710-Finish Hardware

C.

D.

Contractor to provide the required hardware for fire-rated openings in compliance with current code requirements of NFPA 80. Exit hardware for fire-rated openings shall bear UL markings. Contractor to warrant all architectural hardware for a period of one year after date of substantial completion. Warrant door closer for five years.

Contractor to operate lock set's by construction core system until date of substantial completion. Provide the following number of keys: change keys - two per lock, master keys - six each, construction master keys - three each.

All hardware to be satin brass - US4, 606, unless noted otherwise. Note: storefront hardware to be provided by storefront manufacturer as scheduled.

All lock sets, latch sets, cylinders and specialty locks shall be Best removable cores with lever type hardware, or prior approved equal. Other hardware as follows

- 1. Hinges Hager Hinge Company.
- 2. Cylindrical locks and locksets 'Best' removable cores, 2 3/8" backset, wrought trim, 6 and 7-pin tumbler.
- 3. Door closer LCN w/ hold open feature where noted.
- 4. Stops, Viewer Rockwood, H.B. Ives, Quality Hardware Manufacturing Company, Builders Brass Works, Baldwin Hardware Manufacturing Co.
- 5. Push/pulls and plates Rockwood, H.B. Ives, Quality Hardware Manufacturing Company, Builders Brass Works.
- 6. Thresholds/weather-stripping National Guard Products.
- 7. Emergency exit devices to be Von Duprin.
- 8. Three foot exit device.
- 9. Double door kit = Part No. A106-001

Install finish hardware plumb, level and true to line in accordance with approved shop drawings for doors and manufacturer's printed instructions. Location of rdware, where applicable, shall be in accordance with "recommended locations for builders' hardware for standard steel doors and frames". Install finish ardware to template. Cut and fit substrate to exact tolerances required for hardware installation without damaging or weakening door construction. Cover tout with hardware item.

ortise work to correct location and size, without gouging, splintering, or causing irregularities in exposed finish work. Where cutting and fitting is required on ibstrates to be painted, install, fit and adjust hardware prior to finishing, then remove and replace in original packaging. Reinstall hardware after finishing peration is completed. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with dustry standards.

t thresholds for exterior doors in full bed of Butyl-rubber or Polyisobutylene mastic sealant. Weather-stripping and seals to comply with manufacturer's structions and recommendations to the extent installation requirements are not otherwise indicated. At time of hardware installation, adjust each hardware item perform function intended. Lubricate moving parts using lubricant acceptable to hardware manufacturer.

ior to date of substantial completion, readjust and re-lubricate hardware. Replace defective materials. As recommended by manufacturer, clean hardware to move dust and stains. Instruct Owner's designated personnel in adjustment and maintenance of hardware and finishes at time of final hardware adjustment.

Β.

lazing locations:

1. Exterior entrances and storefront

2. Doors.

Glass Products

1. Tempered Glass: All tempered glass shall comply with the standards of ASTM C1048, Kind FT;

a. Condition A (uncoated) and Condition B (coated);

b. Type I (transparent, flat);

c. Class 1 (Clear), Class 2 (Thermal/Tinted) and Class 3 (Tinted),

d. Quality q3.

2. Insulating-Glass Units, General: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, and complying with ASTM E 774 for Class CBA units.

a. Provide Kind HS (heat-strengthened) float glass in place of annealed glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.

b. Provide Kind FT (fully tempered) glass lites where safety glass is indicated.

c. Overall Unit thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thickness of units are measured

d. Sealing system: Dual seal, with primary and secondary sealants as follows:

e. Manufacturer's standard sealants.

f. Spacer Specifications: manufacturer's standard spacer material and construction.

g. Uncoated Insulating Glass:

1) Overall Unit Thickness and Thickness of Each Lite: 25 and 6 mm.

2) Interspace Content: Air. 3) Indoor Lite: Float glass, Class 1 (clear) float glass, Kind FT (fully tempered); Condition A (uncoated surfaces).

- 4) Outdoor Lite: Float glass, Class 1 (clear), Kind FT (fully tempered); Condition A (uncoated surfaces).
- 5) Visible Light Transmittance: 80%. 6) Winter Nighttime U-Value: 0.48.
- 7) Summer Daytime U-Value: 0.55.
- 8) Solar Heat Gain Coefficient: 0.83.

Section 09120 - Lay-In Ceiling System

ceiling tile.

- from. Maximum spacing of wires shall be 48" O.C. D.
- of the project
- of Owner acceptance of the project.

Section 09250 - Gypsum Drywall

- Α.
- В
- C. for fire-rated partitions.

- Security Mesh (Expanded Metal)

2. Flattened Expanded Metal:

a. Metal: Carbon Steel

- b. Style: 3/4" #13F (flattened)
- c. Weight: 75 lbs. per 100 sq.ft.
- d. Thickness: .070 inches

Section 09545 - Concrete Slab Testing

A. Subfloor Moisture Testing

1. Test floor for excessive mo
period in accordance with AS

2. Submit Testing Results to Owner

Subflooring PH Testing

- 2. Submit Testing Results to Owner.

Section 09550 - Wood Flooring

В.

A.	Prepara	ation
		1. Glueless Laminate will be in
В.	Delivery	/, Storage and Handling
		1. Cartons of flooring must lay
		2. During the acclimation and i 35% and 65%.
		3. Cartons should be stacked r sunlight.
C.	Prepara	ation
		1. Fill any low spots in the sub- any high spots by sanding or g
		2. If there is an existing wood f
		3. Remove any existing floor m wall studs so that 1/4" expansi
		4. Sweep the subfloor clean.
D.	Floor M	aterials:
		1. See Finish Schedule for Flo
E.	Underla	yments:
		1. On Concrete floors Use Sile go up the wall at least 2" when
		2. Unroll one width of underlay possible parallel to incoming s
		3. Rooms larger than 26 x 40 f
F.	Installat	ion

the wood floor installation

Suspension system: Armstrong 15/16" prelude suspension system Attachment devices and hangers shall meet ASTM C 635. Grid system color shall match

Ceiling Tile: 2 x 4 Armstrong Cortega #769 Square Lay-in. Colors: white & black.

Installation of ceiling shall be the pattern indicated on the reflective ceiling plan and shall coordinate with the mechanical, electrical and sprinkler system requirements. All items to be supported shall be hung with wires of the same size and spacing to support the ceiling system and all other work supported there

System shall be square and level with deflection not to exceed 1/8" in 10 feet. Grid and all tiles shall be thoroughly clean and free of marks, cuts, indentations, spots, foreign paint of other blemishes and imperfections or shall be replaced. Contractor shall provide five (5) full tiles of replacement material at the completion

Provide ceiling system guarantee in writing against defects in labor, materials and maximum deflection of 1/180th of the span for a period of one year from date

Interior wall framing shall be metal studs as shown. In-wall blocking shall be provided at all wall-hung items. Gypsum wallboard shall be ASTM C1396 "sheetrock" as manufactured by the U.S. Gypsum Co., or equal. Thickness and type of gypsum wallboard as noted, with tapered edges. Use type W/R board conforming to ASTM C1396 in restrooms and where noted. Use type x board where one-hour fire rating is required.

Joint reinforcing tape, adhesive and metal corner reinforcement standard products recommended by the wallboard manufacturer. Fasteners shall be self-drilling, self-taping countersunk bugle head drywall screws for attachment of wallboard to metal studs. Use gypsum wallboard nails for attachment to wood studs. Structural studs shall be punched or un-punched 16-gauge steel having minimum yield point of 33,000 PSI, sizes as indicated.

Non-load bearing studs shall be channel-type roll-formed from 20 gauge electro-galvanized steel, sizes as indicated. Furring channels shall be roll-formed, 25 gauge minimum electro-galvanized steel hat section with wing flanges. Installation of "sheetrock" shall be in accordance with manufacturer's recommendations

Gypsum wallboard shall be attached to metal studs with approved metal screws. All joints shall be taped and finished smooth with spackling compound. Gypsum wallboard shall be attached to masonry with metal furring channels and screws with all joints taped and finished. Joints shall be taped and finished smooth. Office, Restroom and Breakroom walls shall be finished to meet ASTM C 840 Level 5. All other areas shall have level 4 finish.

Trim Accessories: Interior Trim: ASTM C 1047 made from Galvanized or aluminum-coated steel sheet or rolled zinc.

1. Shapes: Cornerbead and Expansion (control) joint.

1. Install directly to stud framing behind gypsum drywall walls and/or ceilings where specified on drawings.

e. Sheet size: use largest sheet size practical for intended use

3. Fasten directly to stud framing using No. 8 self-tapping screws with 1/4" minimum penetration at 12" o.c. at perimeter and field.

pisture before installing over concrete. Perform an Anhydrous Calcium Chloride Moisture Emissions test for a 72 hour STM F1869. The maximum allowable reading is 5 lbs./1000 square feet/24 hours.

1. Test floor for excessive pH before installing floor coverings over concrete. A reading below 5.0 or above 9.0 requires corrective measures. Specific information on the correct method of neutralizing extremely low or high pH is available from the Shaw Field Technical Services Department

nstalled directly over existing concrete flooring.

y flat and unopened in the room in which they are to be installed for a minimum of 48 hours before installation. installation period, temperature must be maintained between 65 deg. F and 85 deg F and relative humidity be between

I no more than 3 high with 4" of airflow around them, should be stored away from any heating/cooling ducts or direct

bfloor greater than 1/8" in 6 feet with a Portland cement leveling compound. Check this by using a 6' straight edge. Remove arindina.

I flooring adhered over concrete, it must be removed before installing Shaw Laminated Flooring. molding. Door frames to be undercut for wood floor installation. Saw the bottom of the doorjamb case molding back to the sion gap is maintained when laminate is fitted under doorjamb case molding.

ooring Mode Numbers.

lentStep Ultra 3 in 1 underlayments. SilentStep Ultra 3 in 1 should be rolled out with the seams pulled together. It should n used over concrete. Tape underlayment seams using a 2" clear packaging sealing tape. ayment along the longest wall. Always work from left to right. Planks should run lengthwise against the longest wall, and if

sunlight. feet require T-molding for expansion. Floor spans should not exceed 40' in any direction.

1. Shaw laminates VersaLock AG installation guide entitled "Glueless Laminate Installation Instructions - Wood Designs" are to be strictly adhered to for

Kinetic Design 29833 Santa Margarita Pkwv. Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build JOHN C SCHNEIDER ARC. 1215624 STAMP REVISIONS No. DATE DESCRIPTION CLIENT INFORMATION **8** 061 В \mathbf{O} \sim \mathcal{C} 合4 \sim S ONS ЧЧ 0 2990(VICK F S A C A NO ()N ഗ CHECKED DRAWN E.N. DATE 03/07/23 SCALE PROJECT NUMBER SHEET

<u>Section</u>	on 09650 - Resilient Flooring	В.	"Pa whe
A.	Testing Concrete Substrates: Prepare according to ASTM F 710.	C.	Su
	1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.		are not
	 Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing. Test the slab for moisture and alkalinity prior to beginning the installation in accordance with Section 09545 Concrete Slab Testing. Check the 	D.	Co
	concrete for moisture and surface pH at several locations. Reading outside of values listed in Section 09545 requires corrective measures. Do not begin the installation if test values xceed maximum allowable reading. Do not use other methods of moisture testing, as they are not reliable. If moisture is excessive advise the Contractor or Owner for a decision on whether to begin. Shaw is not responsible for any moisture related installation failures if	E.	pai Sui sur
	these guidelines are not strictly followed.	F.	Do
	4. Vapor Reduction System: Slabs failing moisture testing shall be coated with Vexcon Chemicals Inc. MoistureBloc. Floors shall be stripped, cleaned, repaired and restored per Manufacturer's recommendations. Provide the following MoistureBloc products based on calcium chloride test results:	G.	nor Sin
	a. Low Level, 8 - 9 lbs. MoistureBloc Universal		ma
	b. Medium Level 12 - 15 lbs. MoistureBloc Emulsion 3	H.	Sul
-	c. High Level Up to 27 lbs. MoistureBloc MX WB		
B.	Vinyl composition tile to be installed as indicated on drawings. Tile to be Armstrong or equal. Color as specified on drawings. Rubber base to be installed as indicated on drawings. Base to be 4" rubber coved based as specified in drawings.		
Sectio	on 09680 Carpet	l.	Ac
A.	Installation Guidelines 1. The following instructions shall be reviewed prior to installation. The Shaw installation video must be watched by all installers before any carpet is	J.	Pai witi fini thio
3.	installed. The written acknowledgement of watching the video must be signed and sent to the Owner's Rep. before the carpet installation has begun. Site Testing And Conditioning	K.	Pai prir
	1. Maintain the temperature of the installation site, carpet, adhesive and seam sealer between 65° F and 95° F for 24 hours before installation. Do not	1	pai All
	begin the installation if the room or subfloor temperature is below 65° F. The adhesive and seam sealer will not function properly when applied over an extremely cold surface. Relative humidity should not exceed 65%. These conditions must be maintained for 24 hours prior to, during and 24 hours after installation. Test the slab for moisture and alkalinity prior to beginning the installation in accordance with Section 09545 Concrete Slab Testing. Reading	L. M.	Wa
	outside of values listed in Section 09545 requires corrective measures. Do not begin the installation if test values exceed maximum allowable reading. Do not use other methods of moisture testing, as they are not reliable. If moisture is excessive advise the Contractor or Owner for a decision on whether	171.	Ma
	to begin. Shaw is not responsible for any moisture related installation failures if these guidelines are not strictly followed.	N.	Ele
).	Floor Preparation	Ο.	Ext
	1. The floor must be free of dust, dirt, oil, grease, paint, wax, moisture or any debris that could affect adhesion of the carpet backing to the floor. Shaw Industries recommends the complete coverage of latex primer to encapsulate any remaining dust prior to installing product if floor is not dust free.	1st C	coat.
	2. Do not use sweeping compounds as they leave oily deposits.	2nd (
	3. The floor must be level and smooth. Depressions and cracks must be filled with a liquid latex additive patching compound and all protrusions leveled.		
	 4. All previous non-active adhesives must be removed to a thin bonded residue before installation of carpet tiles. All previous trowel notches must be reduced to a smooth surface. Previous adhesives can be reduced by means of razor scraping or sanding. The new carpet tile must be assured of a 100% mechanical bond between the carpet backing and subfloor. 5. Concrete floors must be sealed if dusting or powdering exists. The following floor sealers are suggested for concrete: 	1st C 2nd (3rd C	Coat:
	a. Kure-N-Seal-Sonneborn #0800 - Chemrex, Inc.	1st C	coat:
	b. Spartan Cote Cure Seal Hardener - The Burke Group	2nd (3rd C	
	c. Shaw Contract Group 9050 Primer	P.	Inte
	6. As always, manufacturers are subject to change their formulations. Please refer to all manufacturers' suggested use and precautions.		
	7. CAUTION: Cutback asphaltic adhesive or any other non-approved adhesives must never be allowed to come into contact with Shaw Contract carpet tiles or adhesives. Installation failure will result. Existing cutback adhesives must be wet scraped and reduced to a well bonded thin residue. When thoroughly dried, it should be encapsulated with Shaw 9000 sealer. If this situation arises, contact Shaw Industries Technical Services Department at 1-800-471-7429 for further instructions.	1st C 2nd C 3rd C	Coat:
).	Job Layout 1. Modular Carpet	1st C 2nd (
	a. The starting point in a modular installation must be as near to the center of the room as possible and must be positioned to utilize the largest perimeter cut	3rd C	
	module size. b. Snap a chalk line parallel to one major wall bisecting the starting point. It may be necessary to offset the center chalk line to assure perimeter modules will be	Eg-S	y Syste hel/Lov
	at least half size. c. A second chalk line must be snapped from the starting point at 90° to the first line. This can be accomplished using a 3-4-5, 6-8-10, or larger triangle,	1st C 2nd (3rd C	Coat:
Ξ.	depending on the room size. Meters or feet may be used to lay out the triangle in these proportions. Adhesive Requirements & Application		
	1. Modular Carpet	1st C 2nd (
	a. Aaron's Ecoworx Tiles require the use of the provided Shaw Contract 5000 Pressure Sensitive, Releasable Adhesive. Use a 1/16 V-notch trowel. Yields 20	3rd C	
	sy per gallon. Allow the adhesive sufficient open time so that it will not transfer to the back of the tile. The adhesive must be allowed to dry completely before installing the carpet. Installing into wet adhesive will result into a permanent bond and may cause carpet to bubble!	1 ot C	`a at.
	b. NOTE - A FULL SPREAD OF ADHESIVE IS REQUIRED.	1st C 2nd (3rd C	Coat:
	Installation		
	1. Modular Carpet	1st C	
	a. Verify floor is dust and powder free per Floor Preparation section above.	2nd (Coat:
	b. Begin the installation by installing according to the carton number. Each module has directional arrows on the backing. This allows for one-directional or multi- directional installation.	1st C	iost.
	c. Field Modular Carpet Tiles require quarter turning.	1st C 2nd (3rd C	Coat:
	d. Aisle Modular Carpet Tile requires arrows on back of tile to run knap monolithically in one direction.	OPT	
	e. Installation must begin at the intersection of two chalk lines. Installation must continue until completed in one quadrant, then proceed to an adjoining quadrant until all four quadrants are completed. Larger areas may require chalk lines bisecting the original four quadrants.	1st C 2nd (Coat: Coat:
	f. Install modules using the pyramid technique. This allows multiple alignment checks. If the edges do not align and the misalignment increases with progression	3rd C	Coat:
	of the installation, the source of the problem must be identified and corrected.	1st C	`oot-
	g. Slide modules into position to prevent yarn from being trapped between the modules. Trapped yarn will adversely affect the appearance of the installation and will cause alignment problems.	2nd (3rd C	Coat:
	h. Modules must fit snugly, but not be compressed. Check for fit by measuring the length of ten full modules after installation. The measurement must not be less than, or exceed by more than 1/4 inch, the length of the modules being multiplied by ten. For example: if 18" X 18" modules are being installed, the measurement should be between 180 and 180 1/4 inches.	1st C	Coat:
Э.	Cutting 1. Modular Carpet Cutting Techniques	2nd (3rd C	Coat:
	a. Modules may be cut by measuring and cutting from the back using a straight edge. Care must be taken to assure the arrows are pointing in the correct	Sect	ion 10
	direction.	<u>00001</u> A.	Su
_	b. Modules may also be cut by letting them cove up the wall and cutting with a cushion back wall trimmer or similar tool. DO NOT COMPRESS!	·	
ł.	Post Installation Care		
	1. Roll the entire installation in both directions with a 75 lb roller once it is completed to assure transfer of the adhesive between floor and carpet backing.		
	 Use plywood over the carpet when heavy objects are moved within 24 hours after installation. A non-staining building material paper must be placed over the carpet to protect it when additional construction activity is to take place that would soil 	В.	Qu
	3. A non-staining building material paper must be placed over the carpet to protect it when additional construction activity is to take place that would soll or stain it. Do not use plastic sheeting as it will trap moisture.		
<u>Se</u> ctio	on 09900 - Painting		a. I
<u>а.</u>	Extent of painting work is indicated on drawings and schedules, and as herein specified. Work includes painting and finishing of interior and exterior exposed		b. \
	items and surfaces throughout project, except as otherwise indicated. Surface preparation, priming and coats of paint specified are in addition to shop priming and surface treatment specified under other sections of work.		c. F

aint" as used herein, means all coating systems materials, including primers, emulsions, enamels, stains, sealers and fillers, and other applied materials 2. Professional Engineer Qualifications: A professional engineer who is legally authorized to practice in the jurisdiction where project is located and who hether used as prime, intermediate or finish coats. is experienced in providing engineering services for installing metal awnings similar to those indicated for this project and with a record of successful in service performance. urfaces to be painted: except where natural finish of material is specifically noted as a surface not to be painted, paint exposed surfaces whether or not colors e designated in "schedules". Where items or surfaces are not specifically mentioned, paint the same as similar adjacent materials or areas. If color or finish is C. Warranty t designated, Owner will select these from standard colors or finishes available. 1. Warrant frame materials and workmanship against defects for a period of one (1) year from date of substantial completion of the Work. mplete coverage of all exposed surfaces is intended, unless indicated "no paint" on drawings. This includes, but is not limited to, all new surfaces to be 2. Warrant metal roofing materials and workmanship against defects for a minimum period of five (5) years, on a prorated basis, from the date of inted both interior and exterior. substantial completion of the work. urfaces not to be painted: following categories of work are not included as part of field-applied finish work unless noted otherwise; pre-finished items, concealed urfaces, finished metal surfaces, operating parts, shop primed items. D. Awnings o not paint over any code-required labels, such as underwriters' laboratories and factory mutual, or any equipment identification, performance rating, name, or 1. Awning shapes: menclature plates. a. Standard Window Awning with Solid Valance ngle source responsibility: provide primers and other undercoat paint produced by same manufacturer as finish coats. Use only thinners approved by paint b. Hip Roof Entrance Canopy anufacturer, and use only within recommended limits. bmittals 2. Metal Roof : Conventional Standing seam Pac-Clad 24 Ga. Steel Color to match MBCI Signature 300 Harbor Blue. 1. Samples: Prior to beginning work, Owner will furnish color chips for surfaces to be painted. Use representative colors when preparing samples for 3. Frames: Minimum 1-inch square 16GA galvanized steel ASTM A 500 tubing or 1" square and rectangular .125 ASTM B 221 aluminum tubing, welding review. Submit samples for Owner's review of color and texture only. Provide a listing of material and application for each coat of each finish sample. to AWS standards with welds ground smooth. Frames designed for wind loads, snow loads and seismic requirements as required by structural Final acceptance of colors will be from samples applied on the job. Prepare and/or clean surfaces to be painted as per manufacturer's specifications. engineering requirements.

Installation

mounting locations.

schedule their delivery.

Section 12300 - Trade Fixtures

E.

Α.

ceptable manufacturer is Sherwin Williams. Contractor may substitute other vendors ONLY with Owner approval prior to bid submission.

int colors, surface treatments, and finishes, are indicated in "schedules" of the contract documents. In the event paint finishes are not indicated, coordinate th Owner prior to application. Apply additional coats when undercoats, stains or other conditions show through final coat of paint, until paint film is of uniform nish, color and appearance. Give special attention to ensure that surfaces, including edges, corners, crevices, welds, and exposed fasteners receive a dry film ckness equivalent to that of flat surfaces.

aint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with ime coat only before final installation of equipment. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, non-specular black

I surfaces to be painted shall have one primer coat and two finish coats except as indicated.

arranty: Electrometric Coating Manufacturer shall provide a five (5) year warranty beginning from the date of Substantial Completion and a final inspection by a anufacturer's Representative, if required to validate warranty.

ectrometric Coating: First coat shall be back rolled, insuring full embedment into substrate

terior Paint Schedule

1. Textured Electrometric Coating over CMU (Water Based Finish)

Apply paint as per manufacturer's specifications.

S-W Loxon XP Smooth, A24W400 Series (14-18 mils wet; 6.4-8.3 mils dry) S-W Loxon XP Fine Textured Waterproofing System, A24-750 Series (14-18 mils wet)

S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series(5-10 mils wet, 2-4 mils dry) S-W Metalatex Acrylic Semi-Gloss, B42 Series

S-W Metalatex Acrylic Semi-Gloss, B42 Series (4 mils wet, 1.5 mils dry per coat)

3. Galvanized Copings and Flashings:

2. Metal Door and Door Frames:

S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series(5-10 mils wet, 2-4 mils dry) S-W Metalatex Acrylic Semi-Gloss, B42 Series S-W Metalatex Acrylic Semi-Gloss, B42 Series (4 mils wet, 1.5 mils dry per coat)

erior Paint Schedule

1. Drywall-Standard Areas (Eggshell Finish)

S-W ProGreen 200 Interior Latex Primer, B28W600 (4 mils wet, 1.5 mils dry per coat) S-W Harmony Low Odor Interior Latex Eg-Shel, B9 Series S-W Harmony Low Odor Interior Latex Eg-Shel, B9 Series (4 mils wet, 1.6 mils dry per coat)

2. Drywall Bathrooms over W.R. Drywall

S-W ProGreen 200 Interior Latex Primer, B28W600 (4 mils wet, 1.5 mils dry per coat) S-W Harmony Low Odor Interior Latex Eg-Shel, B9 Series S-W Harmony Low Odor Interior Latex Eg-Shel, B9 Series (4 mils wet, 1.6 mils dry per coat)

tem (Water Base) w Luster Finish

S-W ProMar 200 Interior Latex Primer, B28W200 (4 mils wet, 1.1 mils dry per coat) S-W Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45-151 Series

S-W Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45-151 Series (4 mils wet, 1.5 mils dry per coat)

3. Drywall Signage Background

S-W ProGreen 200 Interior Latex Primer, B28W600 (4 mils wet, 1.5 mils dry per coat)

S-W Harmony Low Odor Interior Latex Semi-Gloss, B10 Series S-W Harmony Low Odor Interior Latex Semi-Gloss, B10 Series (4 mils wet, 1.8 mils dry per coat)

4. Woodwork - Trim

S-W PrepRite(r) ProBlock(r) Latex Primer, B51 Series (4 mils wet, 1.4 mils dry)

S-W ProClassic Waterborne Acrylic Gloss, B21-51 Series S-W ProClassic Waterborne Acrylic Gloss, B21-51 Series (4 mils wet, 1.6 mils dry per coat)

5. Wood Doors - Trim

S-W WoodClassics Waterborne Polyurethane Varnish, A68 Series S-W WoodClassics Waterborne Polyurethane Varnish, A68 Series (400-500 sq ft/gal)

6. Metals

S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series (5-10 mils wet, 2-4 mils dry) S-W ProClassic Waterborne Acrylic Semi-Gloss, B31 Series S-W ProClassic Waterborne Acrylic Semi-Gloss, B31 Series (4 mils wet, 1.4 mils dry per coat)

S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series (5-10 mils wet, 2-4 mils dry) S-W Harmony Low Odor Interior Latex Semi-Gloss, B10 Series S-W Harmony Low Odor Interior Latex Semi-Gloss, B10 Series (4 mils wet, 1.6 mils dry per coat)

7. Concrete Unit Masonry

PrepRite Block Filler, B25W25, 8 mils dry S-W Harmony Low Odor Interior Latex Eg-Shell, B9 Series, 1.6 Mils Dry per coat S-W Harmony Low Odor Interior Latex Eg-Shell, B9 Series, 1.6 Mils Dry per coat

8. Concrete Floor Striping (Safety Yellow) on Acrylic Floor Sealer

S-W Tread-Plex Acrylic Floor Coating, B90 Series

S-W Tread-Plex Acrylic Floor Coating, B90 Series S-W Tread-Plex Acrylic Floor Coating, B90 Series (optional) (1.5 - 2.0 mils dry, per coat)

<u>536 - Awnings</u>

omittals

1. Shop Drawings: Show shop and erection details, including cut, copes, connections holes and welds. Show welds, both shop and field, by the current recommended symbols of the AWS. Do not fabricate members until shop drawings have been reviewed.

2. Include engineering calculations showing wind load requirements of the local Building Department and include fastener and erection details, signed and sealed by the qualified professional engineer responsible for their preparation.

ality Assurance

1. Awning manufacturer and Awning Contractor, contractor must provide proof of certifications:

Hold a valid general contractor's license for a minimum of five (5) years.

Welder Qualifications: The personnel manufacturing the metal awning frames must certified welders.

Provide written welding procedure specifications.

4. Frames: All corners are to be mitered or completely welded to AWS standards.

5. Metal welding: All joints must be mitered or completely welded to AWS standards, ground smooth, primed and painted to match metal panels. 6. Anchors: Anchoring hardware shall be galvanized, zinc-coated 3/8" diameter or greater.

7. Painting: Two coats of polyester powder coat required when the awning installation is within 4 miles of the ocean or Painting: Shop primer shall conform to FS TT-P-615d (2). Type 1. Use Rustoleum brand paint 2185 zinc -rich spray when further than 4 miles from the ocean.

8. Calking: Acrylic latex or silicone sealant at head bar and wall junction.

9. Use aluminum side molding to attach material to head bars.

1. Buildings are to be field measured by the awning contractor prior to awning manufacture and awning installation.

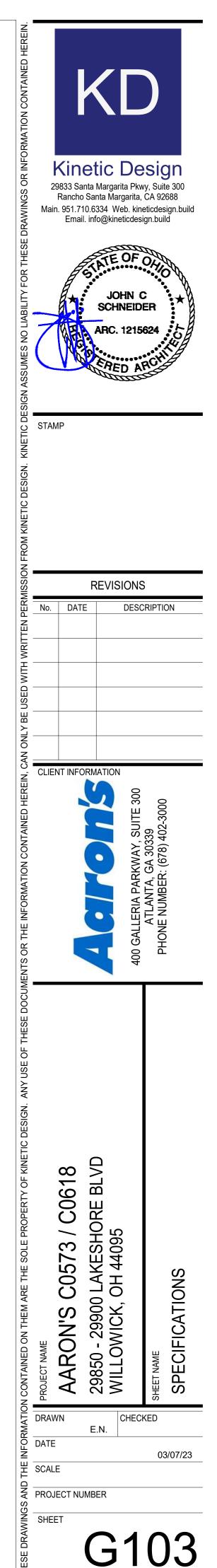
2. Install awnings and frames in strict accordance with the Drawings and the reviewed shop drawings, and provide appropriate building code requirements and aligned and plumb.

3. Welding procedures and operation shall comply with the referenced standard. Welding electrodes shall comply with ASTM A 233, E-70 Series. Grind smooth exposed welds: finish welds to the inside.

Section 10800 - Toilet And Bath Accessories

See drawings for locations and quantities. All accessories shall be installed to meet local code requirements and the Americans with Disabilities Act regardless of drawing locations. Contractor shall notify Owner of any discrepancies prior to installation. All wall-mounted accessories shall have solid wall blocking at

A. Owner's Trade Fixtures - The Contractor, at contractor's sole cost and expense shall install Owner's trade fixture package which consists of customized knock down wood and metal fixtures. Such trade fixtures package include all components needed to assemble electronic fixture system, cash wrap system, wall mounted computer displays, breakroom millwork, and computer table along with specific assembly instructions. All trade fixtures shall be installed prior to the installation of the phone system. Owner is solely responsible for all manufacturing and shipping costs related to its Trade Fixtures, and shall coordinate and



ACCESSIBILITY NOTES

A. GENERAL

- THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, A.I.A. STANDARD FORM A201 - CURRENT EDITION, ARE HEREBY INCORPORATED INTO THIS DOCUMENT EXCEPT AS SPECIFICALLY MODIFIED BELOW.
- THE CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK. SCHEDULING OF APPROVALS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION (A.H.J.) OVER THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACT DOCUMENTS CONVEY DESIGN INTENT AND THE GENERAL TYPE OF CONSTRUCTION DESIRED ARE INTENDED TO APPLY TO THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
- ANY ITEMS NOTED "BY OWNER" OR AS BEING PROVIDED BY OWNER IN THESE CONTRACT DOCUMENTS SHALL BE PROVIDED BY THE OWNER OR HIS VENDORS AND INSTALLED BY THE GENERAL CONTRACTOR OR HIS FORCES UNLESS EXPRESSLY NOTED AS BEING INSTALLED "BY OWNER" - REFER TO THE RESPONSIBILITY SCHEDULE FOR MORE INFORMATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL ACCESSORY MATERIALS REQUIRED TO INSTALL SUCH ITEMS AND MAKE FINAL CONNECTIONS.
- PRIOR TO SUBMITTING A PROPOSAL OR COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO COMPARE THE SCOPE OF WORK SHOWN ON THE DRAWINGS AND OTHER CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. PROMPTLY REPORT ANY ERRORS. OMISSIONS, INCONSISTENCIES OR OTHER DETRIMENTAL CONDITIONS TO THE ARCHITECT. IF THE CONTRACTOR FAILS TO PERFORM THIS OBLIGATION, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS AND DAMAGES ASSOCIATED WITH ACTIONS REQUIRED TO CORRECT UNREPORTED CONDITIONS THAT OTHERWISE COULD HAVE BEEN AVOIDED.
- IN THE EVENT THAT DISCREPANCIES ARE FOUND BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL REQUEST A CLARIFICATION FROM THE ARCHITECT IN WRITING. THE ARCHITECT'S RESPONSE TO THE CONTRACTOR'S REQUEST FOR INFORMATION SHALL NOT BE CAUSE FOR A CHANGE IN THE CONTRACT AMOUNT UNLESS IT IS AGREED THAT THE ORIGINAL SCOPE OF WORK HAS BEEN ALTERED BY THE RESPONSE.
- ALL CONSULTANT DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY OF THE CONSULTANTS WORK AND TO BRING ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECTS ATTENTION FOR CLARIFICATION. IMPROPERLY INSTALLED WORK SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS EXPENSE AND AT NO EXPENSE TO THE ARCHITECT, THEIR CONSULTANTS OR THE OWNER.
- GENERAL CONTRACTOR WILL COORDINATE ALL WORK WITH THE LANDLORD AND PERFORM WORK TO MEET ALL REQUIREMENTS OF THE LEASE AGREEMENT. CONTRACTORS WORK IS SUBJECT TO INSPECTION BY THE LANDLORD FOR COMPLIANCE WITH THE TERMS OF THE LEASE AGREEMENT
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL FURNISH A CONSTRUCTION SCHEDULE SHOWING THE CHRONOLOGICAL PHASES OF WORK, SCHEDULE OF VALUES, AND INSURANCE CERTIFICATE. THIS SCHEDULE SHALL INDICATE ORDERING LEAD TIMES, A BEGINNING AND END DATE FOR EACH PHASE AND A PROJECTED COMPLETION DATE FOR THE ENTIRE PROJECT.
- THE CONTRACTOR IS WHOLLY RESPONSIBLE FOR THE COORDINATION AND SCHEDULING OF 10. THE WORK EFFORTS FOR ALL ENGINEERS, SUBCONTRACTORS, CRAFTSMEN AND TRADESMEN REQUIRED TO COMPLETE THE JOB AND SHALL BE RESPONSIBLE FOR PROVIDING THEM WITH FULL SETS OF CURRENT DRAWINGS, ADDENDUM, AND OTHER SUPPLEMENTAL INFORMATION PERTINENT TO THE COMPLETION OF THE WORK.
- 11. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE AND ABOVE THE CEILINGS (INCLUDING BUT NOT LIMITED TO, STRUCTURAL MEMBERS, CONDUITS, RACEWAYS, LIGHT FIXTURES, CEILING SYSTEM AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE
- THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND ELECTRICAL SERVICE FOR 12. TRADES.
- UNLESS OTHERWISE STIPULATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION. STORAGE AND PAYMENT OF ALL LABOR. MATERIALS. TAXES, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, TRANSPORTATION AND OTHER FACILITIES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK WHETHER OR NOT IT IS SPECIFICALLY CALLED OUT OR DETAILED ON THE DRAWINGS
- THE CONTRACTOR WARRANTS TO THE OWNER THAT MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL MEET INDUSTRY STANDARDS AND BE NEW AND OF GOOD QUALITY UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS. THE WORK WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.FREE FROM DEFECTS AND WILL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER ACCEPTABLE TO THE OWNER.
- THE CONTRACTOR SHALL PROMPTLY CORRECT IN A PROFESSIONAL MANNER, AT NO COST NO 15. THE OWNER AND WITHOUT CHANGE IN CONTRACT TIME, ALL NON-CONFORMING OR DEFECTIVE WORK AND DAMAGES CAUSED BY HIS WORK OR WORKMEN WHETHER DISCOVERED BEFORE OR AFTER SUBSTANTIAL COMPLETION.
- THE CONTRACTOR SHALL INSPECT ALL EQUIPMENT AND SYSTEMS FOR PROPER OPERATIONS 16 UPON SUBSTANTIAL COMPLETION OF PROJECT.
- THE CONTRACTOR SHALL THOROUGHLY CLEAN THE ENTIRE PROJECT SITE AND ADJACENT 17 AFFECTED SPACES TO THE SATISFACTION OF THE OWNER.
- THE GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING REPORTS AND GUARANTEES TO 18 THE OWNER OR OWNER'S REPRESENTATIVE:
 - ELECTRICAL INSPECTOR'S CERTIFICATE OF COMPLIANCE WITH A.H.J. REQUIREMENTS. PLUMBING INSPECTOR'S CERTIFICATE OF COMPLIANCE WITH A.H.J. REQUIREMENTS
 - FIRE MARSHALL'S CERTIFICATE OF COMPLIANCE WITH A.H.J. REQUIREMENTS. BUILDING INSPECTOR'S CERTIFICATE OF COMPLIANCE WITH A.H.J. REQUIREMENTS.
 - HEALTH DEPARTMENT CERTIFICATE OF COMPLIANCE WITH A.H.J. REQUIREMENTS. A.H.J. CERTIFICATE OF OCCUPANCY.

B. DRAWING CONVENTIONS

- DIMENSIONS TAKE PRECEDENCE OVER SCALE ON THE CONSTRUCTION DRAWINGS. NOTIFY THE ARCHITECT OF DISCREPANCIES BETWEEN DRAWING DIMENSIONS AND FIELD CONDITIONS.
- PLAN DIMENSIONS ARE GIVEN TO FACE OF STUDS OR FACE OF EXISTING WALL OR FACE OF NEW FIRE-RATED WALL UNLESS OTHERWISE NOTED.
- PARTITION THICKNESS IS DERIVED FROM DESCRIPTION OF THE PARTITION CONSTRUCTION AND/OR DESIGNATED DETAIL.
- PARTITIONS THAT INTERSECT INTERIOR OR EXTERIOR GLAZED WALLS ARE TO CENTER ON MULLIONS AND PERPENDICULAR TO EXTERIOR WALL UNLESS DETAILED OTHERWISE.
- UNLESS OTHERWISE NOTED, PARTITIONS AND OTHER ELEMENTS ON THE DRAWING THAT ARE DRAWN AT AN OBLIQUE ANGLE ARE TO BE CONSTRUCTED AT A 45-DEGREE ANGLE TO THE MAIN GRID.
- WALLS SHOWN ALIGNED WITH BASE BUILDING STRUCTURE SHALL BE FLUSH AND SMOOTH WITH BASE BUILDING STRUCTURE UNLESS OTHERWISE NOTED.
- UNLESS DIMENSIONED OTHERWISE, DEPTH OF FURRING ON COLUMNS AND OTHER ELEMENTS IS TO BE HELD TO THE MINIMUM THICKNESS REQUIRED TO CONCEAL MECHANICAL, PLUMBING OR ELECTRICAL COMPONENTS.
- UNLESS OTHERWISE INDICATED, POSITION DOOR JAMBS 4" OFF THE FACE OF ADJACENT INTERSECTING PARTITIONS OR CENTER ON PARTITION.
- OUTLETS THAT OCCUR ON OPPOSITE SIDES OF THE SAME PARTITION ARE TO BE STAGGERED HORIZONTALLY A MINIMUM OF 12" TO MINIMIZE SOUND TRANSMISSION.

FIRE DEPARTMENT NOTES

IF EQUIPPED WITH A COMMERCIAL HOOD SYSTEM.

1

2

- INSTALLATION.
- CONTRACTOR OF THIS REQUIREMENT.
- SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.
- OFFICIAL FOR DUE CAUSE.
- 7. SUBMITTED TO VCFD FOR TESTING AND APPROVAL.
- RECOMMENDED.
- 10. ASPHALT PRIOR TO LUMBER DROP AND BUILDING CONSTRUCTION.
- 11 CONSTRUCTION.

"K" RATED PORTABLE FIRE EXTINGUISHER(S) SHALL BE PROVIDED FOR THE KITCHEN AREA

MINIMUM 2A 10B:C FIRE EXTINGUISHERS SHALL BE PROVIDED. TRAVEL DISTANCE TO ANY EXTINGUISHER SHALL NOT EXCEED 75 FEET FROM ANY PORTION OF THE BUILDING. EXTINGUISHER(S) SHALL BE HUNG NO HIGHER THAN 44 INCHES MEASURED FROM THE FLOOR TO THE TOP OF THE EXTINGUISHER.

PLANS FOR ANY AUTOMATIC SPRINKLER SYSTEM (INCLUDING TENANT IMPROVEMENT WORK), HOOD SUPPRESSION SYSTEM AND/OR ALARM SYSTEM, SHALL BE SUBMITTED WITH FEES TO JURISDICTION FIRE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO

PROVIDE FIRE SPRINKLERS FOR THE COVERED PATIO DINING AREA. NOTIFY SPRINKLER

PANIC HARDWARE: EACH DOOR IN A MEANS OF EGRESS FROM A GROUP A, OR ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY, E, I-2 OR I-2.1 OCCUPANCIES HAVING AN OCCUPANT LOAD OF 50 OR MORE AND ANY GROUP H OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE.

LOCKS AND LATCHES, SECTION 1008.1.9.3 ITEM 2: IN BUILDINGS IN OCCUPANCY GROUP A HAVING AN OCCUPANT LOAD OF 300 OR LESS. GROUPS B. F. M AND S. AND IN PLACES OF RELIGIOUS WORSHIP, THE MAIN EXTERIOR DOOR OR DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED: A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED". THE

NOTE: THE USE OF THE KEY-OPERATED LOCKING DEVICE IS REVOCABLE BY THE BUILDING

DECORATIVE MATERIALS: IN EVERY GROUP A, E, I, R-1 AND R-2 OCCUPANCIES ALL DRAPES, HANGINGS, CURTAINS, DROPS AND ALL OTHER DECORATIVE MATERIAL INCLUDING CHRISTMAS TREES, THAT WOULD TEND TO INCREASE THE FIRE AND PANIC HAZARD SHALL BE MADE FROM A NON FLAMMABLE MATERIAL, OR SHALL BE TREATED AND MAINTAINED IN A FLAME-RETARDANT CONDITION BY MEANS OF A FLAME-RETARDANT SOLUTION OR PROCESS APPROVED BY THE "STATE FIRE MARSHAL". PER CALIFORNIA CODE OF REGULATIONS TITLE 19, ARTICLE 3, SUBSECTION 3.08 - DECORATIVE MATERIALS. PROVIDE A CALIFORNIA STATE FIRE MARSHAL CERTIFICATE OF FLAME RETARDANT OR A CALIFORNIA STATE FIRE MARSHAL APPROVED TESTING LAB CERTIFICATION FOR ANY DECORATIVE MATERIALS PRIOR TO FINAL INSPECTIONS. SAMPLES (4" X 12") ARE REQUIRED TO BE

ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTING MAY BE REQUIRED PRIOR TO FINAL INSPECTION FOR OCCUPANCY. A PRELIMINARY WALK-THROUGH INSPECTION IS

MAXIMUM OCCUPANT LOAD SIGN(S) SHALL BE POSTED IN ASSEMBLY AREA(S).

ALL ACCESS ROADS FOR THE DEVELOPMENT SHALL BE INSTALLED WITH FIRST LIFT OF

TALL FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO BUILDING

EGRESS NOTES

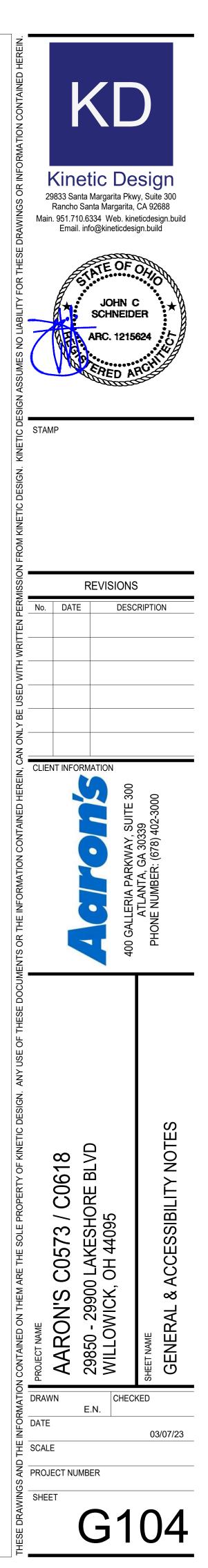
- EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED.
- EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
- ELECTRICALLY POWERED, SELF-LUMINOUS AND PHOTOLUMINESCENT SIGNS SHALL BE LISTED 3 AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH UL 924 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CHAPTER 27. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES PER CBC 1013.5
- EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A 4 DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH CHAPTER 27, PER CBC 1013.6.3.
- EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT PER CBC SECTION 1010.1.9.
- DOOR HANDLES, LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MINIMUM 34" AND A MAX. 48" ABOVE THE FINISHED FLOOR. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT PER CBC SECTION 1010.1.9.2
- A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. THE SIGN SHALL BE IN LETTERS 1" HIGH ON A CONTRASTING BACKGROUND. PER CBC SECTION 1010.1.9.4
- ALL EGRESS DOOR OPERATION SHALL COMPLY WITH CBC SECTION 1010.1.9
- THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM OR SPACE IS OCCUPIED. PER CBC SECTION 1008.2
- THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOTCANDLE (11 LUX) 10. AT THE WALKING SURFACE PER CBC SECTION 1008.2.1
- THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY 11 THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:
 - AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS.
 - CORRIDOR, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
 - EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS
 - INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1027.1 IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
 - EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1010.1.6 FOR EXIT DOORWAYS THAT LEAD DIRECTLY TO THE EXIT DISCHARGE
- 12. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 10 FOOT CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL (CBC SECTION 1204.3).
- THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET 6 INCHES 13. ABOVE THE FINISHED FLOOR PER CBC SECTION 1003.2
- EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.5, FOR EXIT DISCHARGE DOORWAYS IN 14 BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
- THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS 15. THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.
- EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT CANDLE (1 LUX) MEASURE ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CAN (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATION OF 40 TO 1 SHALL NOT BE EXCEEDED.

DOOR ACCESSIBILTY NOTES

- GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS AND CURB RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
- OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE 2. MORE THAN 1/2" DIAMETER EXCEPT AS ALLOWED IN SECTIONS 11B-407.4.3, 11B-409.4.3, 11B-410.4, 11B-810.5.3 AND DIAMETER EXCEPT AS ALLOWED IN SECTIONS 11B-407.4.3, 11B-409.4.3. 11B-410.4. 11B-810.5.3. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (11B-302.3).
- ALL NEW CONSTRUCTION MUST COMPLY WITH DIMENSIONS AS DENOTED ON THESE 3 CONSTRUCTION DOCUMENTS AND WITH CHAPTER 11B OF THE 2016 CBC. DIMENSIONS WITHIN A SPECIFIED DIMENSIONAL "RANGE" MUST BE LESS-THAN THE MAXIMUM DIMENSIONAL RANGE OR GREATER THAN THE MINIMUM DIMENSIONAL RANGE. IN OTHER WORDS, NEW CONSTRUCTION SHALL NOT BE EQUAL TO EITHER THE MAXIMUM OR MINIMUM DIMENSIONS, BUT SHALL BE LESS THAN THE MAXIMUM AND GREATER THAN THE MAXIMUM OR MINIMUM DIMENSIONS, BUT SHALL BE LESS THAN THE MAXIMUM AND GREATER THAN THE DESIGN INTENT OF ARCHITECT IS TO PROVIDE REASONABLE DIMENSIONAL TOLERANCES, ENSURE COMPLIANCE WITH THE ADA, AND TO SIMPLIFY AND EXPEDITE THE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR NON-COMPLIANCE WITH THIS NOTICE. CONTRACTOR TO NOTIFY ARCHITECT IN WRITING PRIOR TO BIDDING OF ANY QUESTIONS OR CONCERNS RELATING TO THIS MATTER.
- DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (11B-404.2.8.1).
- THE FORCE FOR PUSHING OR PULLING A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS 1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM.
 - 2. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM.
 - 3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. NOT TO EXCEED 15 POUNDS (66.7 N).
 - 4. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION. (11B-404.2.9).
- POWER-OPERATED DOORS. WHERE MEANS OF EGRESS DOORS ARE OPERATED BY POWER. SUCH AS DOORS WITH A PHOTOELECTRIC-ACTUATED MECHANISM TO OPEN THE DOOR UPON THE APPROACH OF A PERSON, OR DOORS WITH POWER-ASSISTED MANUAL OPERATION. THE DESIGN SHALL BE SUCH THAT IN THE EVENT OF POWER FAILURE. THE DOOR IS CAPABLE OF BEING OPENED MANUALLY TO PERMIT MEANS OF EGRESS TRAVEL OR CLOSED WHERE NECESSARY TO SAFEGUARD MEANS OF EGRESS. THE FORCES REQUIRED TO OPEN THESE DOORS MANUALLY SHALL NOT EXCEED THOSE SPECIFIED IN SECTION 1010.1.3, EXCEPT THAT THE FORCE TO SET THE DOOR IN MOTION SHALL NOT EXCEED 50 POUNDS (220 N). THE DOOR SHALL BE CAPABLE OF SWINGING FROM ANY POSITION TO THE FULL WIDTH OF THE OPENING IN WHICH SUCH DOOR IS INSTALLED WHEN A FORCE IS APPLIED TO THE DOOR ON THE SIDE FROM WHICH EGRESS IS MADE. FULL-POWER-OPERATED DOORS SHALL COMPLY WITH BHMA A156.10. POWER-ASSISTED AND LOW-ENERGY DOORS SHALL COMPLY WITH BHMA A156.19.7. TEST DOORS FOR DOOR OPENING FORCE AND CLOSING SPEED WITH AIR CONDITIONING AND OTHER FORMS OF MECHANICAL PRESSURIZATION TURNED ON AND ALSO WHEN TURNED OFF.

GENERAL CODE & NOTES

- ALL WORK INCLUDING MATERIALS AND WORKMANSHIP, SHALL CONFORM TO THE 1. REQUIREMENTS OF LOCAL CODES, LAWS, AND ORDINANCES AND THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE. W/ LOCAL AMENDMENTS IN THE EVENT OF A CONFLICT WITH CODE REQUIREMENTS AND ITEMS CALLED OUT ON THE PLANS, THAT CODE OR CALL-OUT WHICH ESTABLISHES THE HIGHER STANDARD SHALL TAKE PRECEDENCE. THE ARCHITECT SHALL BE NOTIFIED OF ALL CONFLICTS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDDING AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING WORK. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT OR WHERE THERE IS A DISCREPANCY BETWEEN THE CONSTRUCTION DOCUMENTS AND THE FIELD CONDITIONS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- DIMENSIONS TAKE PRECEDENCE: DIMENSIONS TYPICALLY TO COLUMN CENTER LINES, FACE OF CONCRETE OR MASONRY, FACE OF FINISH OR AS NOTED ON DRAWINGS. DO NOT SCALE DRAWINGS
- BARRICADES SHALL BE ERECTED PER LOCAL DEPARTMENT OF BUILDING AND SAFETY AND AS REQUIRED FOR SECURITY.
- ALL REQUIRED EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT A KEY OR ANY SPECIAL KNOWLEDGE.
- IF THE FOLLOWING WORDS APPEAR IN ARCHITECTURAL DRAWINGS OR NOTES, REFER TO DOCUMENTS PREPARED BY THE CORRESPONDING CONSULTANTS OR ENGINEERING AND DESIGN DISCIPLINES: "CIVIL": REFER TO CIVIL DOCUMENTS, "STRUCTURAL": REFER TO STRUCTURAL DOCUMENTS, "PLUMBING": REFER TO PLUMBING DOCUMENTS, "MECHANICAL": REFER TO MECHANICAL DOCUMENTS, "ELECTRICAL": REFER TO ELECTRICAL DOCUMENTS, "INTERIORS": REFER TO INTERIORS DOCUMENTS, "LANDSCAPE": REFER TO LANDSCAPE DOCUMENTS. FOR CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, INTERIORS AND LANDSCAPE GENERAL NOTES: SEE CONSULTANTS DRAWINGS.
- ALL GLASS WORK SHALL COMPLY WITH CBC (LATEST APPROVED EDITION) OR LOCAL 7 GOVERNING CODE.
- ALL EXPOSED NON-PREFINISHED METAL IS TO BE PAINTED, INCLUDING SHOP OR FACTORY PRIMED SURFACES.
- FIELD COORDINATE ALL FIELD ROUTED PIPE, CONDUIT, DUCT RUNS, ETC..., WITH LOCATIONS OF RECESSED ACCESSORIES AND EQUIPMENT. NOTIFY ARCHITECT OF POTENTIAL CONFLICTS PRIOR TO PROCEEDING WITH WORK. PLUMBING, MECHANICAL AND ELECTRICAL DOCUMENTS ARE DIAGRAMMATIC BY NATURE. THEREFORE, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD COORDINATE REQUIRED CLEARANCES WITH THE APPROPRIATE TRADES. ADDITIONAL CHARGES WILL NOT BE APPROVED WHICH STEM FROM LACK OF FIELD COORDINATION.
- EXPOSED WELDS: GRIND SMOOTH AND FIELD DRESS ALL WELDS THAT REMAIN VISIBLE AND ARE NOT CONCEALED BY OTHER FINISHES.
- EXIT SIGNS SHALL BE INSTALLED WHERE INDICATED AND AS REQUIRED. SIGN SHALL HAVE 11 LETTERS A MINIMUM OF 6" HIGH ON CONTRASTING BACKGROUND. LIGHTING FOR SIGNS SHALL CONFORM TO AGENCY REQUIREMENTS.
- 12. ALL GLASS OVER 9 SQUARE FEET IN AREAS WITHIN 18" ABOVE FLOOR OR 36" OF GRADE, AND GLASS DOORS AND WALL PANELS SHALL BE LAMINATED OR FULLY TEMPERED.
- 13. ALL GLAZING WITHIN THE SAME WALL AS A DOOR AND WITHIN 24" OF THE DOOR AND WITHIN 18" OF THE FLOOR SHALL BE TEMPERED.
- 14. ALL DOOR HARDWARE SHALL BE LEVER TYPE OR PANIC HARDWARE.
- 15. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL INSPECTION. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
- AN OPERATION AND SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
- THE VOC CONTENT VERIFICATION CHECKLIST, FORM GRN 2, SHALL BE COMPLETED AND 17 VERIFIED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER'S SPECIFICATIONS SHOWING VOC CONTENT FOR ALL APPLICABLE PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION.
- 18. ARCHITECTURAL PAINTS AND COATINGS, ADHESIVES, CAULKS AND SEALANTS SHALL COMPLY WITH THE VOLATILE ORGANIC COMPOUND (VOC) LIMITS LISTED IN LADBS GREEI FORM 11. TAKEN FROM 2017 LADSBS GREEN BUILDING CODE, TABLES 4.504.1, 4.504.2, 4.504.3, 4.504.5, 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.04.4.5
- ALL EXIT DOOR OPERATIONS SHALL COMPLY WITH 1010.1.9 TO 1010.1.9.7 DOOR HANDLES, LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND A MAX. 48" ABOVE FINISH FLOOR.
- 20. FOR CONCRETE SLAB PENETRATIONS AND CORES REFER TO STRUCTURAL DRAWINGS.
- THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED 21. ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP.
- 22. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/ OR ADDITIONAL EXPENSES.
- 23. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWN STREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING." (PER ORDINANCE 170,158) (INCLUDES COMMERCIAL ADDITIONS AND TI WORK OVER \$10,000.) SEPARATE PLUMBING PERMIT IS REQUIRED.
- 24. PROVIDE LOW FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION.
- 25. A COPY OF THE EVALUATION REPORT AND / OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
- 26. THE BUILDING MUST BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM, COMPLYING WITH (NFPA-13); THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CODE
- 27. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTION 1205.2 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 10 FOOT CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL.
- 28. CONSTRUCTION WASTE SHALL BE REDUCED BY 65% . SEE SPEC. 01 74 19 CONSTRUCTION WASTE MANAGMENT.
- 29. CONTRACTOR SHALL PROVIDE DOCUMENTS TO SHOW HVAC SYSTEM INSTALLERS ARE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS (GREEN CODE 702.1).
- 30. SPECIAL INSPECTORS MUST BE QUALIFIED AND ABLE TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE THEY ARE INSPECTING (GREEN CODE 702.2).
- 31. FIXTURE FLOW RATE FORM (WORKSHEET WS-4) SHALL BE AVAILABLE ON FIELD FOR VERIFICATION.
- 32. SELF CERTIFICATION FIELD INSTALLATION FORM SHALL BE SUBMITTED TO INSPECTORS BEFORE FINAL INSPECTION.



RESERVED

3. 4.	THE CONTRACTOR SHALL REVIEW, SIGN, DATE AND SUBMIT A MINIMUM OF (3) SETS OF COMPLETE AND DETAILED SHOP DRAWINGS, FINISHES, FIXTURE AND EQUIPMENT CUT SHEETS TO ARCHITECT FOR REVIEW. THE ARCHITECT SHALL HAVE (10) WORKING DAYS TURNAROUND TIME FROM RECEIPT OF SUBMITTAL. ALL SHOP DRAWINGS AND CUT SHEETS SIGNED "REVIEWED" SHALL SUPERSEDE ORIGINAL DRAWINGS IN DESIGN APPEARANCE ONLY. CONTRACTORS SHALL ASSUME RESPONSIBILITY FOR ERRORS IN THEIR DRAWINGS.
4.	
	IN THE EVENT THAT THE AFOREMENTIONED DRAWINGS, SPECIFICATIONS, ETC. ARE NOT SUBMITTED FOR REVIEW AND APPROVAL, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE REPLACEMENT, CORRECTION OR ACQUISITION OF PRODUCTS TO COMPLY WITH OWNER'S SPECIFICATION AND APPROVAL.
5.	THE CONTRACTOR SHALL PROVIDE CHALK LINES ON THE SLAB OF PARTITIONS FOR APPROVAL PRIOR TO FRAMING AND SHALL NOTIFY ARCHITECT OF ANY DEVIATION FROM CONSTRUCTION DIMENSIONS OR CLEARANCES AS DESIGNATED ON THE DRAWINGS OR OF APPARENT CONSTRUCTION CONFLICTS.
6.	UPON SUBSTANTIAL COMPLETION OF WORK, THE HVAC SYSTEM SHALL BE BALANCED BY A QUALIFIED ENGINEER AND A WRITTEN REPORT SHALL BE SUBMITTED TO THE OWNER.
7.	UPON SUBMISSION OF THE "FINAL APPLICATION FOR PAYMENT", THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) SET OF AS-BUILT DOCUMENTATION INCLUDING DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, PRODUCT DATA, EQUIPMENT WARRANTIES AND MANUALS, FINISH SAMPLES AND OTHER REQUIRED SUBMITTALS. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WRITTEN WARRANTY COVERING ALL WORK PERFORMED UNDER THE CONTRACT. WARRANTY SHALL BE FOR A PERIOD OF ONE YEAR COMMENCING ON THE DATE OF SUBSTANTIAL COMPLETION AND SHALL BE INCLUDED WITH THIS SUBMITTAL.8. THE CONTRACTOR SHALL SUPPLY LIEN WAIVERS RELATING TO ALL WORK WITH THE "FINAL APPLICATION FOR PAYMENT" TO BE REVIEWED FOR "FINAL CERTIFICATE OF PAYMENT".
G. CHA	ANGES IN WORK
1.	THE OWNER WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK - THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY. SUCH WORK SHALL BE EXECUTED UNDER THE CONDITIONS OF THE ORIGINAL CONTRACT EXCEPT THAT ANY CLAIM FOR EXTENSIONS OF TIME CAUSED THEREBY SHALL BE INDICATED ON THE CHANGE ORDER.
2.	CLAIMS FOR ADDITIONAL WORK WILL BE SUBMITTED IN WRITING FOR REVIEW BY OWNER AND SHOULD INCLUDE A COMPLETE DESCRIPTION OF THE WORK, MATERIALS BEING USED, THE ROOM NUMBER OR AREA AFFECTED, AND THE AUTHORIZATION UNDER WHICH THE WORK IS BEING PERFORMED. A. SITE CONSIDERATIONS
3.	DEMOLITION WORK SHALL BE COORDINATED WITH THE LANDLORD TO MINIMIZE DISRUPTION AND INCONVENIENCE TO OTHER OWNERS IN OCCUPIED BUILDINGS. MAINTAIN SAFE MEANS OF ACCESS AND EGRESS TO OCCUPIED OWNER SPACES.
4.	PROVIDE CONCRETE FLOOR SLAB THROUGHOUT "LEAVE-OUT" AREA IN BACK OF HOUSE - MATCH EXISTING FLOOR CONSTRUCTION; COORDINATE WITH LANDLORD.
5.	MAINTAIN THE INTEGRITY OF RATED PARTITIONS AND OTHER FIRE RATED ASSEMBLIES. REPAIR OR REPLACE DAMAGED PORTIONS WITH NEW CONSTRUCTION TO MATCH EXISTING AND HAVE REPAIR WORK APPROVED BY THE BUILDING INSPECTOR.
6.	THE GENERAL CONTRACTOR SHALL REVIEW THE OWNER'S SPACE WITH THE LANDLORD TO DETERMINE IF ANY ACCESS PANELS ARE LOCATED IN THE OWNER'S SPACE FOR THE LANDLORD'S AND/OR OTHER OWNER ELECTRICAL BOXES AND/OR VALVES. THE GENERAL CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT AND THE OWNER OF ANY REQUIRED ACCESS PANEL LOCATIONS.
8.	BUILDING MECHANICAL AND ELECTRICAL SERVICE SHUT DOWN REQUIRED FOR THIS WORK SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR A MINIMUM OF (72) HOURS IN ADVANCE OF THE SHUT DOWN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION PRIOR TO SHUT DOWN AND SHALL NOT OVERLY INCONVENIENCE BUILDING OCCUPANTS.
9.	VERIFY EXISTING SPRINKLER DROP LOCATIONS (IF ANY). ADDITIONS, MODIFICATIONS OR RELOCATIONS OF THE EXISTING SPRINKLER SYSTEM ARE TO BE ALTERED IN TOTAL CONFORMANCE WITH LANDLORD'S CRITERIA AND SHALL BE SUBMITTED FOR PERMIT SEPARATELY. DRAWINGS SHALL BE SUBMITTED TO LANDLORD FOR REVIEW AND SUBMITTED SEPARATELY TO THE FIRE MARSHAL FOR PERMIT.
10.	SPRINKLER HEADS AT STOREFRONT AND DISPLAY WINDOWS MUST BE FLUSH TYPE WITH COVER PLATES PAINTED TO MATCH THE ADJACENT CEILING COLOR. DINING AND KITCHEN MUST HAVE SEMI-RECESSED HEADS WITH ESCUTCHEON RINGS PAINTED TO MATCH THE ADJACENT CEILING COLOR.
11.	WOOD CASEWORK SHALL CONFORM TO ARCHITECTURAL WOODWORK INSTITUTE (AWI) "PREMIUM GRADE" QUALITY STANDARDS AND SHALL BE "FLUSH OVERLAY" CONSTRUCTION UNLESS DETAILED OTHERWISE ON THE DRAWINGS.
12.	PLASTIC LAMINATE CASEWORK SHALL CONFORM TO ARCHITECTURAL WOODWORK INSTITUTE (AWI) "CUSTOM GRADE" QUALITY STANDARDS AND SHALL BE "FLUSH OVERLAY" CONSTRUCTION UNLESS DETAILED OTHERWISE ON THE DRAWINGS.
	CASEWORK SHALL BE SCRIBED TO WALL OR CEILING. CONTRACTOR SHALL COORDINATE WITH OTHER INVOLVED TRADES.

ACCESSIBILITY NOTES (CONTINUED)

C. DEMOLITION, CUTTING, AND PATCHING

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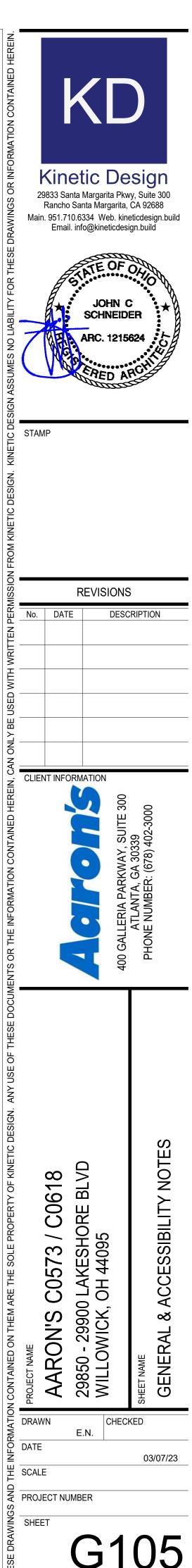
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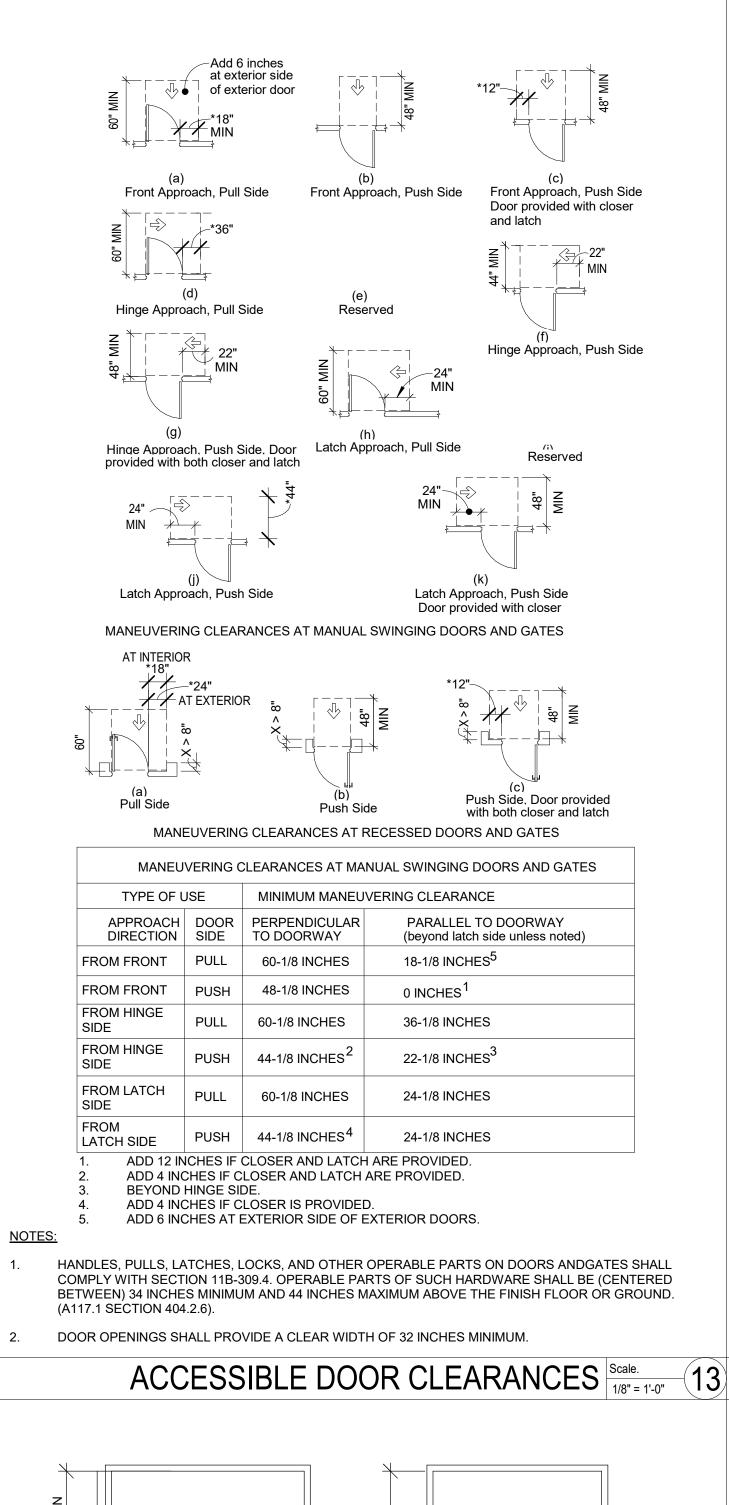
15.

- THE CONTRACTOR SHALL INSPECT THE SITE AND CALL ATTENTION TO ENVIRONMENTAL HAZARDS WITH LANDLORD. SAID HAZARDS ARE TO BE REMOVED AT THE LANDLORD'S EXPENSE. REMOVAL SHALL ADHERE TO THE ENVIRONMENTAL PROTECTION AGENCY'S GUIDELINES. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION, CUTTING AND PATCHING REQUIRED TO FACILITATE COMPLETION OF THE WORK. PRIOR TO STARTING WORK, ERECT TEMPORARY BARRIERS AROUND THE PERIMETER OF THE PROJECT AND BASE BUILDING TOILET FACILITIES TO PREVENT THE SPREAD OF DUST AND OTHER CONTAMINANTS TO ADJACENT AREAS OF THE BUILDING. MAINTAIN DUST PROOF AND SOUND BARRIERS THROUGHOUT THE COURSE OF CONSTRUCTION OR UNTIL NO LONGER REQUIRED. REMOVE BARRIERS AND REPAIR ANY DAMAGE CAUSED BY THEIR INSTALLATION TO MATCH ADJACENT SURFACES. UNLESS NOTED OTHERWISE, ALL DEMOLISHED DEBRIS, MATERIAL, EQUIPMENT AND FIXTURES BECOME THE PROPERTY OF THE CONTRACTOR WHO IS RESPONSIBLE FOR ITS SAFE REMOVAL FROM THE SITE. DISPOSAL OF DEMOLISHED MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE RULES, REGULATIONS AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION. COORDINATE WITH LANDLORD. PATCH ALL EXISTING OR NEWLY DAMAGED AREAS TO MATCH ADJACENT SURFACES IN QUALITY, TEXTURE AND COLOR. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL TRENCHING AND UNDER GROUND WORK WITH SUBCONTRACTORS. D. GENERAL CONSTRUCTION CONTRACTOR SHALL VERIFY ALL GRID LINE COORDINATES AND CHECK THEM AGAINST DIMENSIONS SHOWN ON PLANS AND DETAILS. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY DURING STAKING. ALL LANDSCAPE MATERIALS DISPLACED OR DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION. THE CONTRACTOR SHALL FIRMLY ANCHOR PARTITIONS PER JURISDICTION AND INDUSTRY STANDARDS AND USE METAL TRIM ACCESSORIES AT EXPOSED CORNERS, EDGES AND ENDS IN PLASTER AND DRYWALL PARTITIONS. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING FOR ALL WALL MOUNTED PLUMBING FIXTURES, TOILET ACCESSORIES, CABINETS, AND TABLES. ALL CONCEALED PLYWOOD, WOOD BLOCKING, AND WOOD STUD/JOIST FRAMING SHALL MEET U.L. FIRE RETARDANT TREATED REQUIREMENTS. ALL MATERIALS USED IN UNFINISHED ATTIC SPACE SHALL BE NON-COMBUSTIBLE. ANY WOOD SHALL BE FIRE RETARDANT TREATED. DO NOT PUNCH OR USE METAL DECK TO SUPPORT SUSPENDED CEILING. SUSPENDED METAL FRAMING-CEILING AND METAL STUD PARTITION FRAMING SHALL BE SUPPORTED FROM STRUCTURAL STEEL ROOF FRAME. ALL ROOF PENETRATIONS SHALL BE CUT, FLASHED AND SEALED BY THE LANDLORD'S ROOFING CONTRACTOR IN ORDER TO MAINTAIN THE ROOF SYSTEM INTEGRITY AND WARRANTY. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS REQUIRED FOR MECHANICAL, ELECTRICAL AND PLUMBING INSTALLATIONS PER LOCAL BUILDING CODES. LOCATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION. CEILING FRAMING IN THE FIELD SHALL BE SQUARE, LEVEL AND PERFECTLY ALIGNED WITH EACH OTHER AND WITH THE RECESSED LIGHT FIXTURES. ALL RECESSED FIXTURES SHALL BE SET FLUSH INTO CEILING. NEW PIPE, CONDUIT AND DUCT PENETRATIONS OF FIRE RATED ASSEMBLIES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AN UNDERWRITERS LABORATORY TESTED DESIGN. WIRING AND CONDUIT IS TO BE CONCEALED IN BOTH NEW AND EXISTING PARTITIONS WITH ALL OUTLETS, SWITCHES AND SIMILAR DEVICES MOUNTED IN RECESSED JUNCTION BOXES WITH FLUSH COVER PLATES. SURFACE MOUNTED CONDUIT, WIREMOLD, OUTLETS, ETC. WILL NOT BE PERMITTED UNLESS OTHERWISE NOTED. VERIFY EXACT DIMENSIONS OF ALL OWNER SUPPLIED EQUIPMENT, FEATURES AND FIXTURES TO ASSURE A PROPER FIT WHERE EQUIPMENT, FEATURES AND FIXTURES ARE SHOWN BUILT-IN TO NEW MILLWORK, UNDER COUNTER AND BETWEEN NEW AND EXISTING PARTITIONS. COMMUNICATION, DATA, SECURITY AND SIMILAR SYSTEMS WILL BE PROVIDED AND INSTALLED BY THE OWNER UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER' AND PROVIDE CONDUIT, BOXES AND OTHER ROUGH-IN REQUIREMENTS TO FACILITATE FINAL WIRING INSTALLATION. LOCKSETS SHALL BE "KEYED" IN ACCORDANCE WITH OWNER REQUIREMENTS. "KEYS" ARE TO BE DELIVERED TO OWNER PROPERLY TESTED. THE NUMBER OF MASTER AND PASS KEYS SHALL
- PROVIDE STANDARD IDENTIFICATION PLATE WITH OWNER NAME AND SPACE 16. DESIGNATION/ADDRESS AS SPECIFIED THROUGH A COMMON MANUFACTURER BY THE LANDLORD. IF NO LANDLORD STANDARD PROVIDED, PROVIDE A STANDARD 3" X 9" LAMINATED PLASTIC, DARK COOL GRAY COLORED FACE WITH WHITE LETTERING ROUTED INTO FACE. FASTENED TO OWNER REAR EXIT SERVICE DOOR ON THE ACCESS CORRIDOR FACE.
- 17. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL TILE LOCATIONS, PLASTIC PANEL LOCATIONS, MECHANICAL ROOM WALLS, AND AS NOTED ON DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH LOCAL V.O.C. REGULATIONS 18. FOR MATERIALS USED IN CONSTRUCTION.
- 19. SPACES BEING SURFACED SHALL BE CLOSED TO TRAFFIC AND OTHER WORK DURING THE LAYING OF FLOORING, STONE, WOOD, OR OTHER MATERIAL. FINISHED FLOORS SHALL BE COVERED AFTER INSTALLATION FOR PROTECTION.
- E. FIRE / LIFE SAFETY
- ALL REQUIRED PERMITS AND APPROVALS MUST BE OBTAINED FROM THE FIRE DEPARTMENT 1. BEFORE BUILDINGS ARE OCCUPIED.2. MAINTAIN THE FUNCTION AND INTEGRITY OF EXISTING FIRE, LIFE/SAFETY AND SECURITY SYSTEMS.
- PROVIDE OCCUPANCY SIGNS CONFORMING TO APPLICABLE BUILDING CODE REQUIREMENTS. 2. PROVIDE ADDITIONAL EXIT SIGNS AND FIRE EXTINGUISHERS IN TYPE, NUMBER AND LOCATION 3 AS DIRECTED BY THE FIRE DEPARTMENT FIELD INSPECTOR.
- DURING CONSTRUCTION THE GENERAL CONTRACTOR SHALL PROVIDE A PORTABLE FIRE 4. EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN (75 FT.) FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR.
- F. REQUIRED APPROVALS AND SUBMITTALS

BE COORDINATED WITH LANDLORD.

- WHERE THE TERMS "OR EQUAL", "SIMILAR", OR OTHER GENERAL QUALIFYING TERMS ARE USED. 1 IT SHALL BE UNDERSTOOD THAT REFERENCE IS MADE TO THE RULING AND JUDGMENT OF THE ARCHITECT AND MUST BE SUBMITTED FOR APPROVAL PRIOR TO PURCHASE OR USE.
- THE CONTRACTOR SHALL HAVE (10) WORKING DAYS FROM AWARD OF THE CONTRACT TO 2. SUBMIT SUBSTITUTIONS OF SPECIFIED PRODUCTS OR WORK FOR REVIEW BY ARCHITECT AND SHALL INCLUDE CUT SHEETS WITH SPECIFICATIONS AND REASONS FOR SUBSTITUTION. THE ARCHITECT SHALL RESPOND IN (10) WORKING DAYS FROM RECEIPT OF SUBMITTAL. NO SUBSTITUTIONS SHALL BE ACCEPTED AFTER THE INITIAL TIME LIMIT HAS EXPIRED.

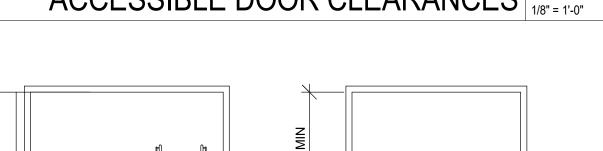


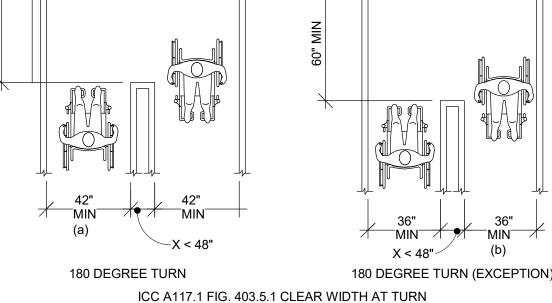




HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS ANDGATES SHALL COMPLY WITH SECTION 11B-309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE (CENTERED BETWEEN) 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

2.

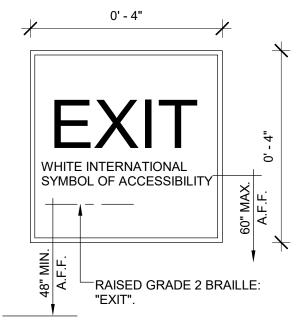




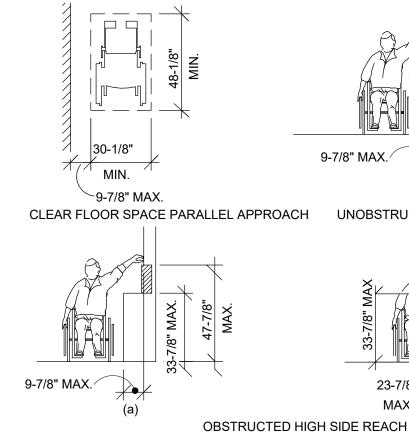


- THE MINIMUM WIDTH OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT SUCH WIDTH SHALL NOT BE LESS THAN 44 INCHES, EXCEPT THAT EXIT PASSAGEWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL NOT BE LESS THAN 36 INCHES IN WIDTH. THE REQUIRED WIDTH OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED. (11B-1023.2).
- 2. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MINIMUM BY 60 INCHES MINIMUM; OR , AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH SECTION 11B-304.2 WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES MINIMUM BEYOND THE INTERSECTION. (11B-403.5.3).

WIDTH OF ACCESSIBLE ROUTE 1/4" = 1'-0"



- RAISED CHARACTERS RAISED CHARACTERS SHALL BE DUPLICATED IN BRAILLE
- DEPTH RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 mm) MINIMUM ABOVE THEIR BACKGROUND.
- CASE
- CHARACTERS SHALL BE UPPERCASE
- STYLE CHARACTERS SHALL BE UPPERCASE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
- CHARACTER HEIGHT CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
- BRAILLI BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH ICC A117.1 SECTION 703.4.
- DIMENSIONS AND CAPITALIZATION BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE
- HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
- LOCATION
- WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDE AT DOUBLE DOORS WITH TWO ACTIVE LEAFS. THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FORROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THEROOM OR SPACE, SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE.
- VISUAL CHARACTERS SHALL COMPLY WITH SECTION ICC A117.1 SECTION 703.2.
- FINISH AND CONTRAST CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- PICTOGRAM FIELD PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
- NOTES:
- TACTILE EGRESS SIGNAGE (SECURE TO STOREFRONT GLASS W/ ADHESIVE). PROVIDE PLASTIC BACKING OVER OTHER SIDE OF GLASS FOR COVERAGE. ADHESIVE SHALL BE COMPATIBLE W GLASS APPLICATION.



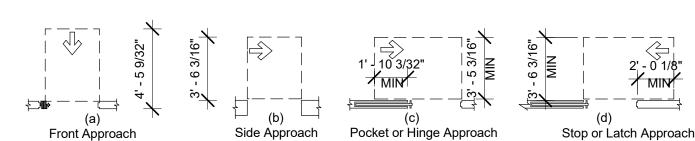
<u>NOTES</u>

- WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND 1. THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 47-7/8" MAXIMUM AND THE LOW SIDE REACH SHALL BE 15-1/8" MINIMUM ABOVE THE FINISH FLOOR OR GROUND. EXCEPTION: AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 9-7/8" MAXIMUM
- DEPTH EXCEEDS 9-7/8", THE HIGH SIDE REACH SHALL BE 45-7/8" MAXIMUM FOR A REACH



EXIT

TACTILE EXIT SIGN



MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

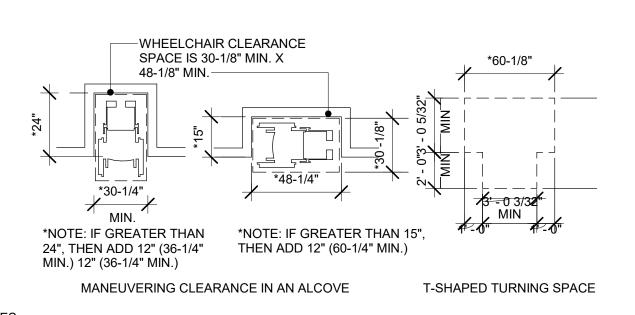
		RING CLEARANCE
APPROACH DIRECTION	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (beyond stop/latch side unless noted
FROM FRONT	48-1/8 INCHES	0 INCHES
FROM SIDE ¹	42-1/8 INCHES	0 INCHES
FROM POCKET/HINGE SIDE	42-1/8 INCHES	22-1/8 INCHES ²
FROM STOP/LATCH SIDE	42-1/8 INCHES	24-1/8 INCHES

NOTES:

MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS 1. DOORWAY WITH NO DOOR ONLY.

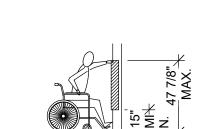
2. BEYOND POCKET/HINGE SIDE.

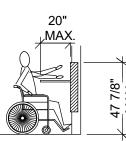
ACCESSIBLE DOOR CLEARANCES. Scale. (8)

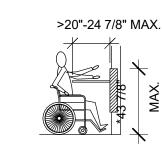


- NOTES:
- ALCOVES SHALL BE 36-1/4" WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES.
- ALCOVES SHALL BE 60-1/4" WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.
- THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60-1/8" SQUARE MINIMUM WITH ARMS AND BASE 36-1/8" WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12" MINIMUM IN EACH DIRECTION AND THE BASE BE CLEAR OF OBSTRUCTIONS 12" MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24" MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE ONLY AT THE END OF EITHER THE BASE OR ONE ARM

CLEAR FLOOR & TURNING SPACE Scale. (7)







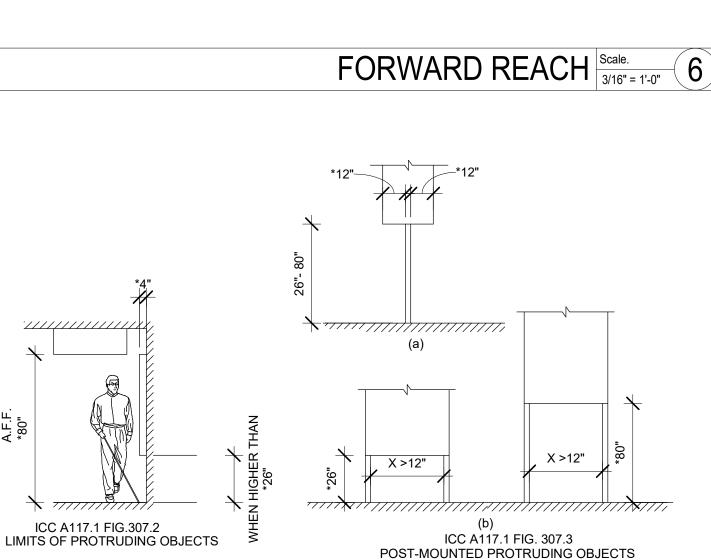
OBSTRUCTED HIGH FORWARD REACH

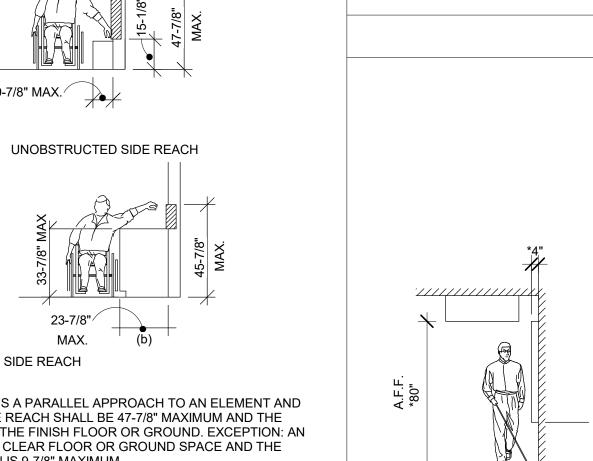
UNOBSTRUCTED FORWARD REACH

NOTES:

-(10)

- WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALLBE 47 7/8" MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 1/8" MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
- WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 47 7/8" MAXIMUM WHERE THE REACH DEPTH IS 20" MAXIMUM. 43 7/8" MAXIMUM AND THE REACH DEPTH SHALL BE 24 7/8" MAXIMUM.





WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 33-7/8" MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 23-7/8" MAXIMUM. THE HIGH SIDE REACH SHALL BE 47-7/8" MAXIMUM FOR A REACH DEPTH OF 9-7/8" MAXIMUM. WHERE THE REACH

BUILDING EXIT SIGN Scale. 6" = 1'-0"

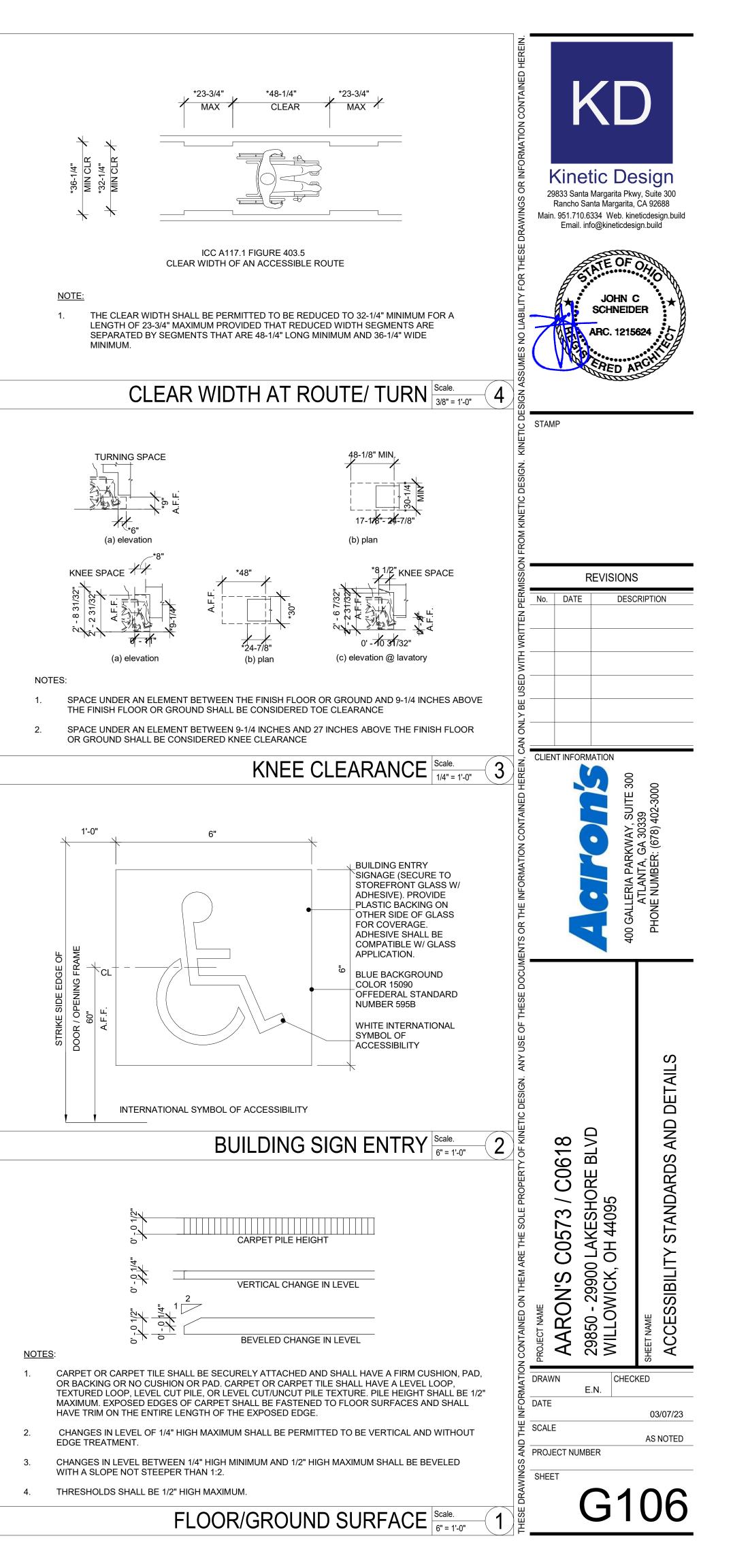
9-7/8" MAX./

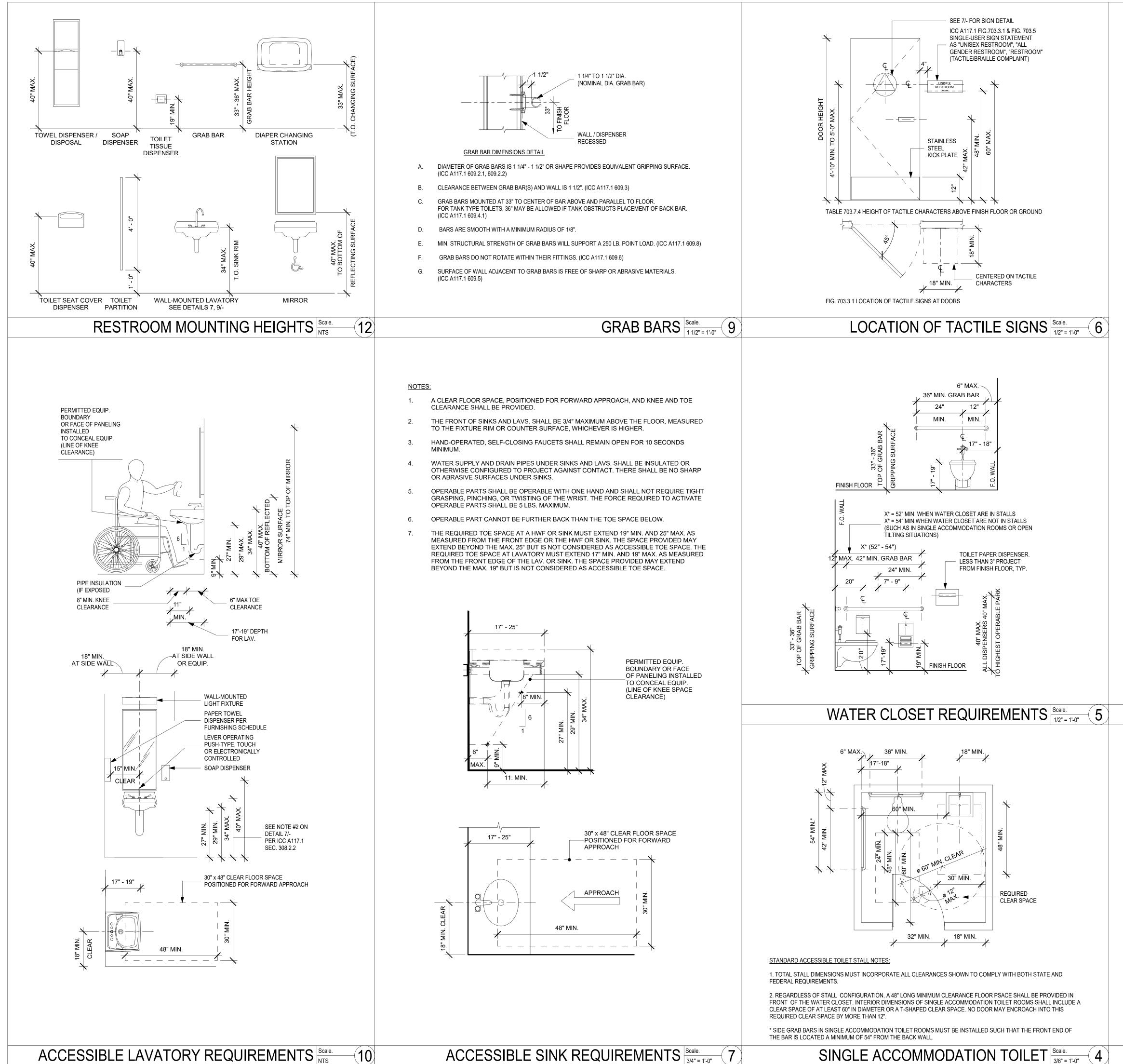
23-7/8"/

MAX.

SIDE REACH Scale. (9)

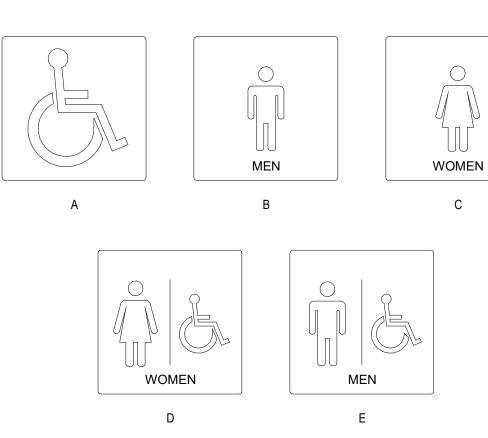
PROTRUDING OBJECTS Scale. (5)





ACCESSIBLE LAVATORY REQUIREMENTS 10

ACCESSIBLE SINK REQUIREMENTS 3/4" = 1'-0" (7)

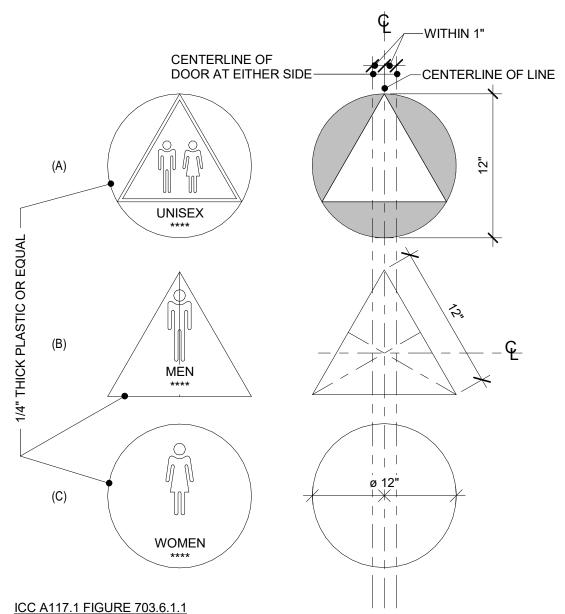


NOTE: ALL SIGNAGE IS 1/4" THICK. PLASTIC OR EQUAL.

1. CHARACTERS & BACKGROUND OF SIGNS IS EGGSHELL, MATTE OR OTHER NON-GLARE FINISH. 2. CHARACTERS SHALL CONTRAST WITH THE BACKGROUND LIGHT ON DARK, OR DARK ON LIGHT.

3. MOUNT SIGNAGE 60" ABOVE FINISHED FLOOR TO CENTERLINE OF SIGN.

4. BORDER DIMENSION OF PICTOGRAM TO BE 6" MINIMUM IN HEIGHT



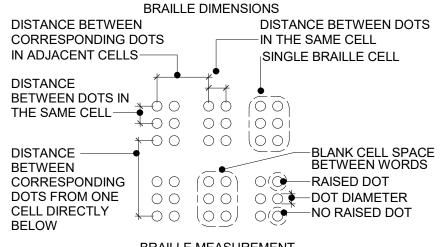
ICC A117.1 FIGURE 703.6.1.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

BACKGROUND TO BE BLUE EQUAL TO COLOR NO.15090 IN FEDERAL STANDARDS 595a. GENDER SYMBOLS TO BE WHITE.

RESTROOM SIGNAGE 3 Cale. 2

MEASUREMENT RANGE		MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER		0.059 TO 0.063
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	1	0.090 TO 0.100
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	1	0.241 TO 0.300
DOT HEIGHT		0.025 TO 0.037
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	1	0.395 TO 0.400

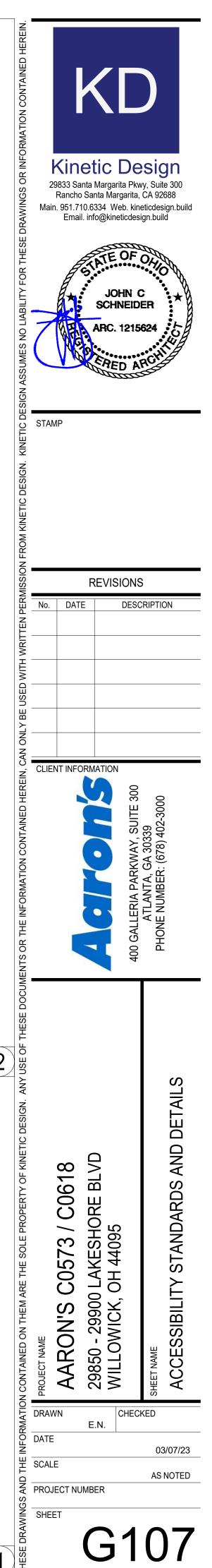
1. MEASURED CENTER TO CENTER



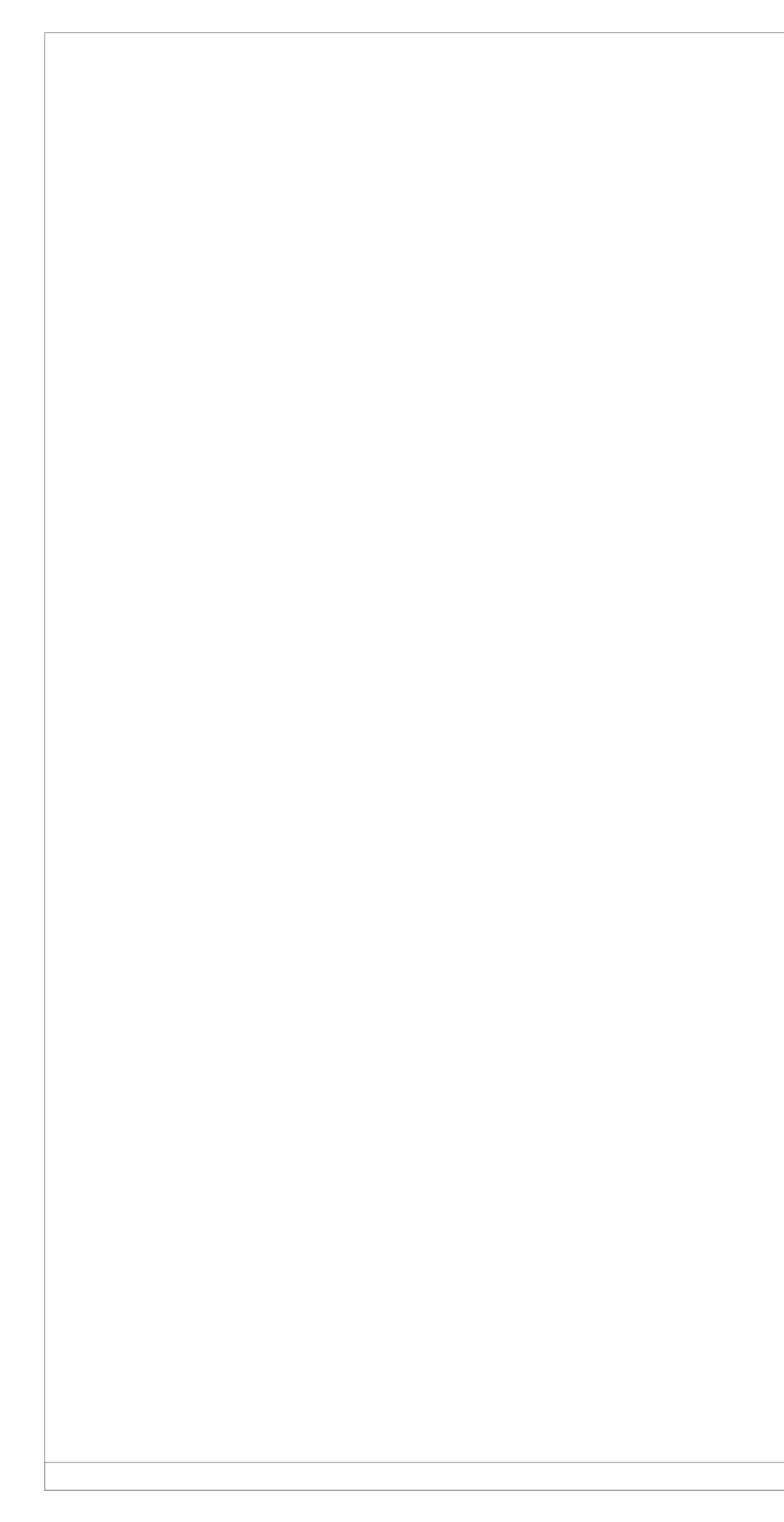
BRAILLE MEASUREMENT BRAILLE SHALL BE CONTRACTED (GRADE 2)

BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH FIGURE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS

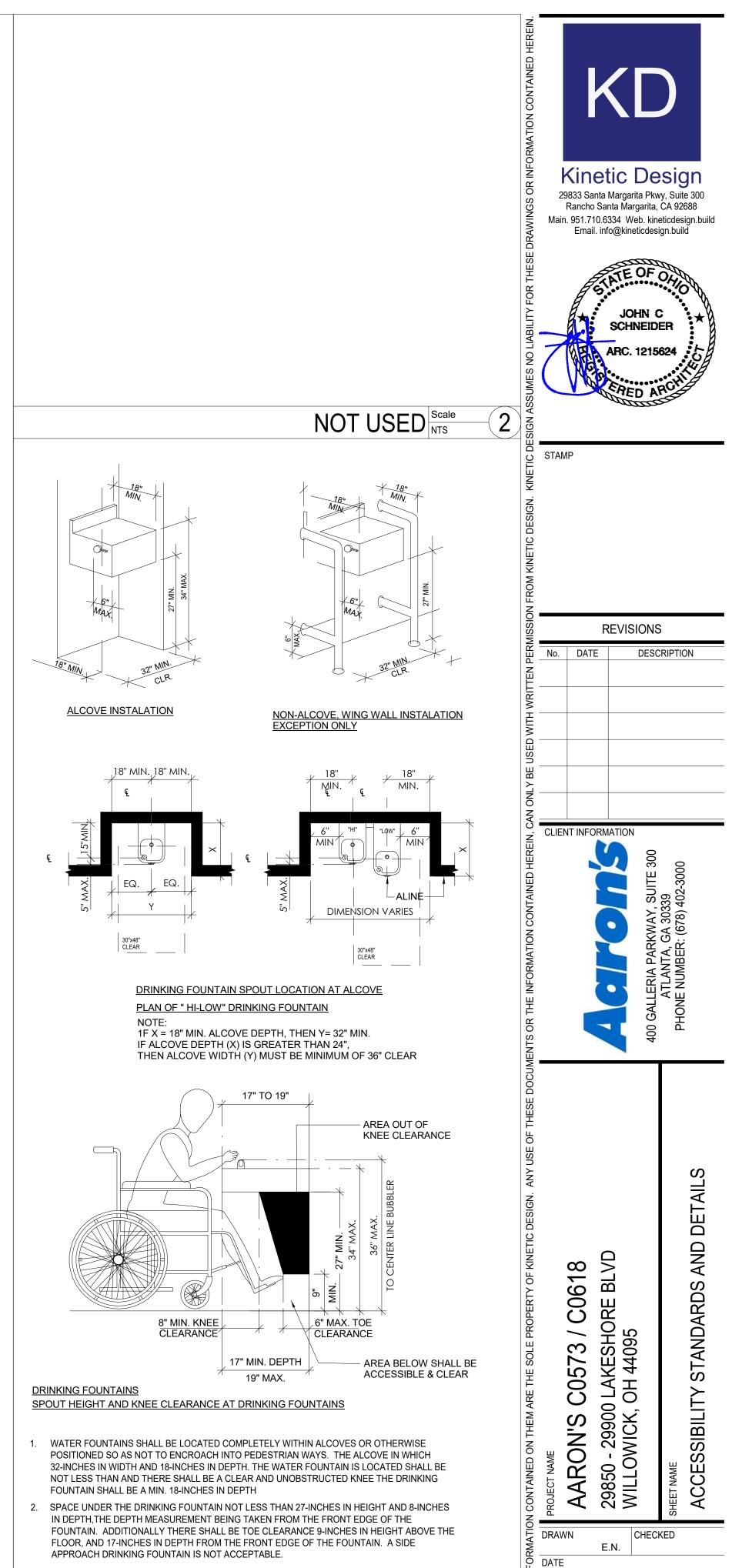
E POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM AND 1/2 INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.



SIGNS/BRAILLE Scale. 1" = 10'-0"







3. THE BUBBLER SHALL BE ACTIVATED BY A CONTROL WHICH IS EASILY OPERATED BY A HANDICAPPED PERSON SUCH AS A HAND-OPERATED LEVER TYPE CONTROL LOCATED WITHIN 6-INCHES OF THE FRONT OF THE FOUNTAIN, A PUSH BAR CONTROL ALONG THE FRONT OF THE DRINKING FOUNTAIN, ETC. THE BUBBLER OULET ORIFICE SHALL BE LOCATED WITHIN 6-INCHES OF THE FRONT OF THE DRINKING FOUNTAIN AND SHALL BE WITHIN 36-INCHES OF THE FLOOR. THE WATER STREAM FROM THE BUBBLER SHALL BE SUBSTANTIALLY PARALLEL TO THE FRONT EDGE OF THE DRINKING FOUNTAIN.

03/07/23

AS NOTED

G108

H SCALE

SHEET

PROJECT NUMBER

NOT USED Scale 3 DRINKING FOUNTAIN REQUIREMENT Scale



_____MECHANICAL_SPECIFICATIONS_____

PART I - GENERAL

A. CONDITIONS

- 1. GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, SPECIAL CONDITIONS, AND OTHER RELATED PORTIONS OF DIVISION 1, APPLY TO THIS SECTION.
- **B** SUMMARY OF WORK
- 1. THE WORK INCLUDED CONSISTS OF FURNISHING LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION A COMPLETE AND OPERABLE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SPECIFIED AND SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO: HVAC UNITS, EXHAUST FANS, DUCTLESS SPLIT-SYSTEMS, DUCTWORK, AIR DISTRIBUTION, CONTROLS AND ACCESSORIES, EXCEPT AS OTHERWISE NOTED.
- C. REGULATIONS, CODES, PERMITS AND INSPECTIONS
- 1. COMPLY WITH NATIONAL, STATE, COUNTY, AND CITY CODES, ORDINANCES, ETC., HAVING JURISDICTION. THIS INCLUDES RULES AND REQUIREMENTS OF UTILITY SERVING AGENCIES.
- 2. INCORPORATE CODES, ORDINANCES, ETC., INTO THE BASE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENTS OR TO OBTAIN APPROVAL OF
- 3. OBTAIN AND PAY FOR REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES.
- 4. IN ADDITION, THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND PUBLISHED STANDARDS SHALL BE ADHERED TO:
- INTERNATIONAL BUILDING CODE 2015 (IBC 2015) - INTERNATIONAL MECHANICAL CODE 2015 (IMC 2015)
- INTERNATIONAL PLUMBING CODE 2015 (IPC 2015)
- INTERNATIONAL FIRE CODE 2015 (IFC 2015) - NATIONAL ELECTRICAL CODE 2017 OF OHIO
- INTERNATIONAL ENERGY CONSERVATION CODE 2018 (IECC 2018)
- ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2009 OF OHIO - NATIONAL FIRE ALARM AND SIGNALING CODE 2016 OF OHIO
- STANDARD FOR HIGH CHALLENGE FIRE WALLS. AND FIRE BARRIER WALLS 2015 OF OHIO - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE OF OHIO

D. DESIGN DRAWINGS

- 1. DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. PROVIDE LABOR, MATERIAL, ETC., NECESSARY TO ACCOMPLISH THESE REQUIREMENTS. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED A PART OF THE WORK INCLUDED. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE PERMITTED. DO NOT SCALE THE DESIGN DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS
- 2. IF A CONFLICT OCCURS BETWEEN THE DESIGN DRAWINGS AND SPECIFICATIONS, PROMPTLY NOTIFY THE ARCHITECT AND/OR ENGINEER. AT THAT POINT, AN INTERPRETATION WILL BE MADE BY THE ARCHITECT AND/OR ENGINEER AND SAID DECISION SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
- E. QUALIFICATIONS OF CONTRACTOR AND WORKMEN
- 1. CONTRACTOR SHALL BE PROPERLY LICENSED TO PERFORM THE WORK. F. BASE BID
- 1. BASE BID SHALL INCLUDE MATERIALS AND EQUIPMENT SPECIFIED OR SCHEDULED ON THE DRAWINGS REQUESTS FOR SUBSTITUTION OF MATERIALS AND EQUIPMENT SHALL BE BY ADDITIVE OR DEDUCTIVE ALTERNATE BID ONLY. THE FOLLOWING DATA MUST BE CLEARLY WRITTEN AT THE BEGINNING OF THE ALTERNATE PROPOSAL
- A. ADDITIVE OR DEDUCTIVE AMOUNT CLEARLY WRITTEN IN WORDS AND NUMERALS.
- B. INCREASED OR REDUCED CONSTRUCTION TIME IN DAYS.
- C. OTHER DEMONSTRABLE BENEFIT, FOR WHICH THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S INTEREST.
- ONLY THOSE MATERIALS AND FOULIPMENT WHICH ARE SUBMITTED AS AN ALTERNATE BID, WHICH ARE ACCOMPANIED BY THE SUPPORTING DATA INDICATED BELOW WILL BE REVIEWED AND CONSIDERED.

G. SUBSTITUTIONS

- 1. MATERIALS AND EQUIPMENT THAT ARE A SUBSTITUTE FROM THE LISTED MANUFACTURER MAY BE CONSIDERED. PRIOR TO PROPOSING ANY SUBSTITUTE ITEM, CONTRACTOR SHALL SATISFY HIMSELF THAT THE ITEM PROPOSED IS, IN FACT, FOUAL TO THAT SPECIFIED, THAT SUCH ITEM WILL FIT INTO THE SPACE ALLOCATED. THAT SUCH ITEM AFFORDS COMPARABLE EASE FOR OPERATION. MAINTENANCE AND SERVICE, THAT THE APPEARANCE, LONGEVITY, CAPACITY, SUITABILITY, AND ELECTRICAL CHARACTERISTICS ARE COMPARABLE. THAT BY REASON OF COST SAVINGS, REDUCED CONSTRUCTION TIME, OR SIMILAR DEMONSTRABLE BENEFIT, THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S INTEREST
- 2. THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE CONTRACTOR. CONTRACTOR SHALL SUPPORT HIS REQUEST WITH SUFFICIENT TEST DATA AND OTHER MEANS TO PERMIT THE ENGINEER TO MAKE A FAIR AND EQUITABLE DECISION ON THE MERITS OF THE PROPOSED SUBSTITUTION. INSUFFICIENT SUBMITTAL DATA WILL RESULT IN REJECTION OF THE PROPOSED SUBSTITUTION. ANY ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED OR OF BRAND NAME MODEL NUMBER OR OF GENERIC SPECIES OTHER THAN THOSE SPECIFIED, WILL BE CONSIDERED A SUBSTITUTION. ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY AND ECONOMY TO THAT SPECIFIED.
- 3. APPROVAL OF A SUBSTITUTION SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT. CONTRACTOR SHALL BEAR THE EXPENSE FOR ANY CHANGES IN OTHER PARTS OF THIS WORK OR OTHER WORK CAUSED BY THE PROPOSED SUBSTITUTION, INCLUDING BUT NOT LIMITED TO STRUCTURAL, ELECTRICAL, PLUMBING, AND ACCESS REQUIREMENTS
- 4. IF ENGINEER REJECTS CONTRACTOR'S SUBSTITUTE ITEM ON THE FIRST SUBMITTAL, CONTRACTOR MAY MAKE ONLY ONE ADDITIONAL REQUEST FOR SUBSTITUTION IN THE SAME CATEGORY
- 5. ANY EQUIPMENT SUBSTITUTED WITHOUT THE ENGINEER'S WRITTEN APPROVAL WILL BE REMOVED AND REPLACED WITH THE SPECIFIED EQUIPMENT AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.

H. SUBMITTALS

1. EQUIPMENT AND MATERIALS:

- A. CONTRACTOR SHALL HAVE APPROVED SUBMITTALS PRIOR TO FABRICATION OR DELIVERY OF ANY MATERIAL AND/OR EQUIPMENT TO THE JOB SITE. SUBMIT A MINIMUM OF 8 (EIGHT) COPIES, COMPREHENSIVELY INDEXED SUBMITTALS IN A 3-RING BINDER, COMPLETELY DESCRIBING EACH MAJOR SYSTEM, MATERIAL AND EQUIPMENT PROPOSED TO BE USED. ANY PIECE OF EQUIPMENT PLACED ON THE JOB WITHOUT PRIOR APPROVAL WILL BE SUBJECT TO REMOVAL AT THE SOLE EXPENSE OF THE CONTRACTOR.
- SUBMITTALS ARE FOR INFORMATION AND COORDINATION ONLY. REVIEW OF MATERIAL AND/OR EQUIPMENT SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATIONS REQUIREMENTS. POINTS OF NON-COMPLIANCE WHICH ARE NOT NOTED SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF THE NON-COMPLIANCE. SUBMITTALS SHALL CLEARLY STATE WHERE EQUIPMENT DOES NOT AGREE WITH THE CONTRACT DOCUMENTS
- SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS, WEIGHTS AND RATINGS OF EQUIPMENT SUBMITTED. INDICATE EQUIPMENT LAYOUTS, ELECTRICAL CHARACTERISTICS, WIRING AND CONTROL DIAGRAMS, SIZES AND LOCATIONS OF PIPING, DUCT, CONDUITS, AND OTHER CONNECTION SIZES AND LOCATIONS.
- SHOP DRAWINGS CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED 1/4"=1'-0" SCALE DRAWINGS THAT HAVE BEEN PROPERLY COORDINATED WITH OTHER TRADES. INDICATE LOCATION AND SIZES OF ACCESS PANELS IN HARD CEILINGS FOR EQUIPMENT AND DAMPER ACCESS.
- 3. AS BUILT DRAWINGS:
- MAINTAIN ACCURATE RECORDS OF ANY CHANGES FROM THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. UPON COMPLETION OF THE PROJECT, DELIVER TO THE ENGINEER ONE (1) SET OF LEGIBLE REPRODUCIBLES AND (3) BLUELINE SETS OF THESE RECORD DRAWINGS.
- 4. WARRANTY UNLESS SPECIFIED OTHERWISE BY ARCHITECT, ENGINEER, OWNER OR OWNER'S 7. ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF RECTANGULAR REPRESENTATIVE, UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A WRITTEN ONE (1) YEAR WARRANTY ON THE SYSTEMS, MATERIALS AND ALL WORK PERFORMED. THIS INCLUDES THE ENTIRE COST, INCLUDING MATERIALS AND/OR LABOR, OF CORRECTIVE WORK REQUIRED AND NECESSITATED BY DEFECTS IN MATERIALS AND/OR WORKMANSHIP. CONTRACTOR SHALL ALSO PRESENT THE OWNER WITH A COPY OF ALL MANUFACTURER'S WARRANTIES THAT EXCEED THE WARRANTY PERIOD, SUCH AS AC UNIT COMPRESSORS.
- 5. OPERATION AND MAINTENANCE INSTRUCTIONS: UPON THE COMPLETION OF THE PROJECT, DELIVER TO THE OWNER THE REQUIRED NUMBER OF COPIES OF HARD BOUND O & M MANUALS. INCLUDE IN THE MANUAL INSTRUCTIONS PREPARED SPECIFICALLY FOR THE SYSTEMS PROVIDED, ALONG WITH DESCRIPTIONS, PARTS LIST, INSTRUCTIONS, AND WARRANTIES, START-UP REPORTS FOR ALL EQUIPMENT WILL BE DELIVERED WITH THE MATERIALS AND EQUIPMENT UTILIZED IN THE PROJECT. IDENTIFY EACH ITEM BY THE DESIGNATION APPEARING ON THE DRAWINGS.
- OWNER TRAINING: AT A TIME DESIGNATED BY THE OWNER, PROVIDE A SUITABLE TECHNICIAN, MECHANIC OR ENGINEER TO REVIEW THE SYSTEMS WITH OWNER'S REPRESENTATIVE TO THOROUGHLY FAMILIARIZE HIM WITH THE OPERATIONS AND MAINTENANCE OF THE SYSTEMS, UP TO (8) FIGHT HOURS TOTAL TRAINING TIME SHALL BE REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO TRAINING THE OWNER SHALL HAVE TAKEN POSSESSION OF THE O & M MANUALS, AND SHALL HAVE HAD A REASONABLE AMOUNT OF TIME FOR THE PERSONNEL TO FAMILIARIZE THEMSELVES WITH THE CONTENTS OF THE MANUALS.

PART II - PRODUCTS

A. GENERAL PRODUCTS 1. SEISMIC RESTRAINTS:

- A. WHERE REQUIRED BY THE BUILDING OFFICIALS/BUILDING CODES, FURNISH AND D. SUPPLY AND RETURN DUCTS LOCATED OUTSIDE SHALL BE LINED WITH 2" INSTALL SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, AND EQUIPMENT. SEISMIC RESTRAINTS SHALL BE DESIGNED TO RESIST SEISMIC FORCES PRESCRIBED IN THE BUILDING CODES FOR THE PROJECT LOCATION.
- B. WHERE REQUIRED BY THE BUILDING OFFICIAL, PROVIDE STRUCTURAL CALCULATIONS SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER. 1. REPLACEABLE (THROWAWAY) PANEL FILTERS:
- C. REFERENCE THE LATEST EDITION OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR GUIDELINES.
- 2. FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. SEE LIST OF ACCEPTABLE MANUFACTURERS ELSEWHERE IN THESE SPECIFICATIONS. MAKE NO EQUIPMENT SUBSTITUTIONS THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICING SPACE. REFER TO 'SUBSTITUTIONS' SECTION OF THE SPECIFICATION.
- 3. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, VIBRATION ISOLATORS. ETC. MOTOR STARTERS FOR PREWIRED EQUIPMENT AND OTHER PROTECTION AND CONTROL DEVICES ARE TO BE FURNISHED UNDER THE MECHANICAL CONTRACTOR'S SCOPE OF WORK. STARTERS FOR NON-PREWIRED EQUIPMENT, I.E.
- FANS, PUMPS ETC., ARE UNDER THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK, UNLESS NOTED OTHERWISE. SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE PLANS AND ELSEWHERE IN THESE SPECIFICATIONS. LISTING OF ALTERNATE EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS AN UNCONDITIONAL APPROVAL OF THE PRODUCTS OF THOSE MANUFACTURERS.
- **B. AIR CONDITIONING UNITS**
- 1. FURNISH AND INSTALL HEATING/COOLING UNITS WITH CAPACITIES AS SCHEDULED. UNITS SHALL BE COMPLETE WITH HERMETICALLY SEALED COMPRESSOR WITH HIGH AND LOW PRESSURE CUT-OFFS, COILS, HEATING SECTION, BLOWERS, NECESSARY REFRIGERANT PIPING, INSULATED COMPRESSOR COMPARTMENT, AIR COOLED CONDENSER, CONDENSER BLOWER OR FAN, AUTOMATIC CONTROLS, CONTROL PANEL WITH STARTERS, RELAYS, ETC. FOR SINGLE POINT POWER CONNECTION. WITHIN A WEATHERPROOF, INSULATED DECORATIVE CASING. UNITS SHALL BE FURNISHED WITH (1) ONE CONSTRUCTION SET OF FILTERS, INSTALLED PRIOR TO START-UP. REPLACE FILTERS AT SUBSTANTIAL COMPLETION BEFORE TEST AND BALANCE ACTIVITIES COMMENCE. FURNISH ONE COMPLETE SET OF SPARE FILTERS TO OWNER. FURNISH ONE COMPLETE SET OF BELTS.
- 2. UNITS SHALL BE COMPLETELY FACTORY WIRED FOR TERMINAL CONNECTIONS OF THERMOSTAT WITH A FAN-AUTO/MANUAL SWITCH AND A SYSTEM HEAT/OFF/COOL/AUTO SWITCH. UNITS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, COMPLETE WITH ALL SCHEDULED AND NECESSARY ACCESSORIES FOR EFFICIENT AND PROPER OPERATION

D. DUCTWORK

PROVIDE A COMPLETE SYSTEM OF DUCTWORK FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST VERSIONS OF THE ASHRAE FUNDAMENTALS HANDBOOK AND SMACNA DUCT CONSTRUCTION STANDARDS. DUCT SYSTEM SHALL BE CONSTRUCTED AS REPRESENTED ON THESE DRAWINGS AND AS COORDINATED IN DETAIL ON THE APPROVED DUCTWORK SHOP DRAWINGS. IF ADDITIONAL CHANGES IN DUCT ARRANGEMENT OR IN DUCT SIZES ARE REQUIRED, THEY SHALL

MAIN AND BRANCH DUCTS SHALL BE RECTANGULAR, ROUND, OR FLAT-OVAL, AND SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL UNLESS NOTED OTHERWISE. DUCT SIZES SHOWN ON THE DRAWINGS ARE NET OPENINGS AND SHALL BE INCREASED TO ACCOMMODATE DUCT LINING WHERE APPLICABLE.

BE MADE ONLY AFTER WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.

FLEXIBLE DUCT SHOWN AT CONNECTION TO AIR DISTRIBUTION DEVICES SHALL BE A FABRICATED ASSEMBLY WITH AN ACOUSTICALLY-RATED CORE CONSISTING OF AN INNER SLEEVE, 2-INCH THICK FIBERGLASS INSULATION, WITH AN R-6.0 MINIMUM AND AN OUTER VAPOR BARRIER COVERING EQUAL TO THERMAFLEX M-KE.

WHETHER SHOWN ON PLANS OR NOT, PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH SUPPLY DIFFUSER OR REGISTER, RETURN AND EXHAUST GRILLE AND ALSO AS REQUIRED FOR A PROPERLY BALANCED SYSTEM. PROVIDE ACCESS PANELS TO DAMPERS LOCATED ABOVE HARD CEILINGS.

VOLUME DAMPERS FOR RECTANGULAR DUCTS SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL, BE OF THE OPPOSED BLADE TYPE AND BE FURNISHED WITH LOCKING AND INDICATING QUADRANTS. DAMPERS FOR ROUND DUCTS SHALL BE SINGLE-BLADE TYPE UP TO 30"Ø. USE CONTINUOUS ROD ON 2" W.G. CLASS DAMPERS FROM 12"Ø-28"Ø, AND RECTANGULAR DUCTS FROM 18"-48" WIDE.

6. ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF ROUND SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW:

A. CONICAL TEE. CONICAL SADDLE TAP. ELBOW (IF LAST FITTING

45° TEE OR SADDLE TAP

SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW: A. COLLAR (CONICAL).

B. COLLAR (STRAIGHT, ONLY WHEN SHOWN ON DRAWINGS).

8. DOVETAILED CUTOFFS ARE NOT ACCEPTABLE. DUCT TAPE OR OTHER PRESSURE SENSITIVE TAPES ARE NOT ACCEPTABLE.

9. TAPS IN SECTIONS OF ROUND FACTORY-MADE FLEXIBLE AIR DUCTS (WHEN ALLOWED) SHALL BE MADE BY INSERTING, IN THE FLEXIBLE DUCT SECTION, ANY OF THE SHEET METAL FITTINGS LISTED BELOW:

90 DEGREE CONICAL STRAIGHT TEE. 45 DEGREE STRAIGHT LATERAL.

45 DEGREE STRAIGHT LATERAL WITH 45 DEGREE ELBOW. 45 DEGREE STRAIGHT LATERAL CROSS. E. Y BRANCH WITH 45 DEGREE ELBOW

E. DUCT INSULATION 1. THERMAL INSULATION:

> A. CONCEALED SUPPLY DUCTS AND RETURN DUCTS ABOVE CEILING OR IN FURRED SPACES SHALL BE THERMALLY INSULATED.

THERMAL INSULATION SHALL BE FLEXIBLE BLANKET GLASS FIBER INSULATION WITH FACTORY APPLIED FLAME RETARDANT, FOIL-SCRIM-KRAFT VAPOR BARRIER (FSK), MAXIMUM K OF 0.30 AT 75 DEGREES F MEAN TEMPERATURE MINIMUM .75 POUND DENSITY. INSULATION SHALL BE 2" THICK.

INSULATION SHALL BE APPLIED OVER SURFACES WHICH HAVE BEEN WIPED CLEAN AND DRY AND SHALL HAVE 3-INCH MINIMUM OVERLAP ON BOTH LONGITUDINAL AND TRANSVERSE SEAMS.

ACOUSTICAL LINER AND SEALED WATER TIGHT, OR INSULATED EXTERNALLY WITH 2" RIGID BOARD AND ALUMINUM LAGGING SEALED WATER TIGHT.

F. AIR FILTERS

A. PROVIDE FACTORY-FABRICATED. VISCOUS-COATED. FLAT PANEL TYPE REPLACEABLE AIR FILTERS WITH HOLDING FRAMES AS INDICATED, IN SIZES I

INDICATED, WITH 2" THICK UL CLASS 2 THROWAWAY MEDIA MATERIAL, CONSTRUCT MEDIA OF INTERLACED GLASS FIBERS, SPRAY WITH NON-FLAMMABLE ADHESIVE, FRAME IN THROWAWAY FIBERBOARD CASINGS, AND SANDWICH BETWEEN PERFORATED METAL GRILLES.

B. CONSTRUCT DUCTWORK-HOLDING FRAMES OF 20-GA. GALVANIZED STEEL, CAPABLE OF HOLDING MEDIA AND MEDIA FRAME IN PLACE, AND GASKETED TO PREVENT UNFILTERED AIR BY-PASSING BETWEEN MEDIA FRAMES AND HOLDING MEMBERS

PROVIDE FILTERS WITH RATED FACE VELOCITY OF 500 FPM, INITIAL RESISTANCE OF OT GREATER THAN 0.30" W.G., FINAL RATED RESISTANCE OF 0.50" W.G., AND AVERAGE ARRESTANCE OF 80%.

C. EXHAUST FAN AND VENT UNITS

CORROSION RESISTANT FASTENERS, ETC.

FURNISH AND INSTALL DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FANS WITH CAPACITIES AS SCHEDULED. UNITS SHALL BE COMPLETE WITH ALUMINUM HOUSING, BACKWARD INCLINED WHEEL, ALUMINUM CURB CAP WITH PREPUNCHED MOUNTING HOLES, BIRDSCREEN, BALL BEARING MOTORS, SLEEVE BEARING MOTORS, MOTOR ISOLATED ON SHOCK MOUNTS, CORROSION RESISTANT

FASTENERS, ETC. 2. FURNISH AND INSTALL BELT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FANS WITH CAPACITIES AS SCHEDULED. UNITS SHALL BE COMPLETE WITH ALUMINUM HOUSING, BACKWARD INCLINED ALUMINUM WHEEL, MOTOR AND DRIVES ISOLATED ON SHOCK MOUNTS, DRAIN TROUGH, ADJUSTABLE MOTOR PULLEY, ADJUSTABLE MOTOR PLATE, FAN SHAFT MOUNTED IN BALL BEARING PILLOW BLOCKS, BEARINGS THAT MEET OR EXCEED TEMPERATURE RATING OF FAN, STATIC RESISTANT BELTS, CURB CAP WITH PREPUNCHED MOUNTING HOLES, BALL BEARING MOTORS,

UNITS SHALL BE COMPLETELY FACTORY WIRED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, COMPLETE WITH ALL SCHEDULED AND NESESSARY ACCESSORIES FOR EFFICIENT AND PROPER OPERATION

F. LIST OF ACCEPTABLE MANUFACTURERS

1. FOLLOWING IS A LIST OF MANUFACTURES WHOSE EQUIPMENT IS ACCEPTABLE AS TO MANUFACTURE, SUBJECT TO CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. CAREFUL CHECKING MUST BE MADE TO VERIFY THAT EQUIPMENT WILL MEET CAPACITIES, REQUIREMENTS, SPACE AND WEIGHT ALLOCATIONS.

- A. HVAC PACKAGED EQUIPMENT: CARRIER OR APPROVED EQUAL BY ARCHITECT/ENGINEER
- B. FANS: GREENHECK, COOK, ACME, PENN, PRICE AIR DEVICES: TITUS, KREUGER, METAL-AIRE, PRICE
- INSULATION: CERTAINTEED, OWENS-CORNING, MANVILLE, KNAUF UNIT HEATERS: CHROMOLOX, REZNOR, Q-MARK, MARKEL
- DUCT SEALANT: DESIGN POLYMERICS, MCGILL AIRFLOW, CANVAS TAPE AND ARABOL
- G. VARIABLE FREQUENCY DRIVE: ALLEN-BRADLEY, ASEA BROWN BOVERI (ABB), CUTLER-HAMMER, SQUARE D. TOSHIBA
- SPRING ISOLATION RAILS: MICRO-METAL SPLIT SYSTEM HEAT PUMP UNITS: CARRIER, TRANE, SANYO AIR FILTERS: AFF, FARR OR FLANDERS.
- APPROVAL FOR SUBSTITUTIONS MUST BE MADE IN ACCORDANCE WITH PART 1, SECTION G "SUBSTITUTIONS" OF THESE SPECIFICATIONS.

PART III - EXECUTION

A. GENERAL

- 1. INSTALL MATERIALS AND EQUIPMENT IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- 2. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
- 3. PERFORM WORK IN ACCORDANCE WITH THE BEST TRADE PRACTICES. INSTALL MATERIALS AND EQUIPMENT SQUARELY WITH THE BUILDING LINES. PROVIDE RIGID PERMANENT BASES AND SUPPORTS FOR WORK.
- 4. CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC., SO THAT THERE WILL BE NO VIBRATION AND/OR RATTLING WHEN THE SYSTEM IS IN OPERATION.
- 5. COVER AND PROTECT EQUIPMENT AND MATERIALS FROM WEATHER. THEFT. ETC... UNTIL DATE OF COMPLETION. PLUG AND/OR CAP OPEN ENDS OF INSTALLED PIPING AND/OR DUCTWORK PENDING EXTENSION OR FINAL CONNECTION.

B. DUCTWORK

- 1. CONSTRUCT DUCTWORK WITH MATERIAL, GAUGES, JOINTS, BRACING AND SUPPORTS IN ACCORDANCE WITH LATEST SMACNA STANDARDS.
- 2. DUCTWORK SHALL BE RIGIDLY CONSTRUCTED AND SUBSTANTIALLY AIR-TIGHT. SEAL ALL DUCTWORK WITH A WATER BASED DUCT SEALANT (DESIGN POLYMERICS) DP-1010 OR EQUAL) OR ARABOL AND CANVAS TAPE. DO NOT UTILIZE PRESSURE SENSITIVE TAPES. SEAL DUCTWORK IN ACCORDANCE WITH TABLE 4-1 "APPLICABLE LEAKAGE CLASSES" OF THE LATEST SMACNA HVAC LEAKAGE TEST MANUAL.
- 3. MAKE CONNECTIONS BETWEEN FLEXIBLE DUCTS AND RIGID TRUNK DUCTS WITH FACTORY FABRICATED FITTINGS WITH DAMPER. SECURE FLEX DUCT TO FITTING WITH CLAMPS OR PANDUIT STRAPS INSTALLED TO FACTORY RECOMMENDED TENSION. INSTALL CLAMPS ON LINER AND SECOND CLAMP OVER JACKET. JOB INSPECTION MAY REQUIRE REMOVAL AND REPLACEMENT OF A RANDOM SAMPLING OF CONNECTIONS.
- 4. ELBOWS SHALL HAVE A THROAT RADIUS EQUAL TO 1-1/2 TIMES THE DUCT WIDTH. SQUARE ELBOWS SHALL HAVE TURNING VANES OR SPLITTER. TRANSITIONS SHALL NOT EXCEED 4 TO 1 ASPECT RATIO.
- C. AUTOMATIC TEMPERATURE CONTROLS & SHUTOFF 1. ROOFTOP AC UNITS SHALL BE TURNED ON/OFF WITH PROGRAMMABLE 7-DAY
- THERMOSTATS. THERMOSTATS SHALL BE SET FOR CONTINUOUS FAN OPERATION. 2. EXHAUST FANS ARE CONTROLLED AS SPECIFIED IN THE EXHAUST FAN SCHEDULE.
- 3. AIR CONDITIONING UNITS SHALL BE EQUIPPED WITH IONIZATION TYPE DUCT
- DETECTOR, UNLESS INDICATED OTHERWISE.
- 4. DUCT SMOKE DETECTOR SHALL BE LOCATED IN THE MAIN SUPPLY AND RETURN -AIR DUCT AHEAD OF ANY BRANCH TAKE-OFFS, AND INSTALLED PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- 5. WHERE REQUIRED BY BUILDING OFFICIALS, ACTIVATION OF ANY SMOKE DETECTOR SHALL CAUSE THE AIR-MOVING EQUIPMENT TO AUTOMATICALLY SHUT DOWN. WHERE A SYSTEM CONSISTS OF MORE THAN ONE AIR CONDITIONER, ACTIVATION OF ANY OF THE SMOKE DETECTORS IN ANY OF THE AIR CONDITIONERS SERVING THE COMMON AREA SHALL CAUSE ALL AIR-MOVING EQUIPMENT SERVING THAT COMMON AREA TO SHUT DOWN.
- 6. WIRING OF THE SMOKE DETECTORS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC AND ELECTRICAL SECTIONS OF THE SPECIFICATION.
- FIRE ALARM CONTRACTOR SHALL CONNECT ALL FIRE/SMOKE DAMPERS TO THE FIRE CONTROL SYSTEM, AS REQUIRED BY LOCAL BUILDING AUTHORITY. THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL THE CEILING MOUNTED SMOKE DETECTOR STATUS LIGHTS.

D. TESTING AND BALANCING

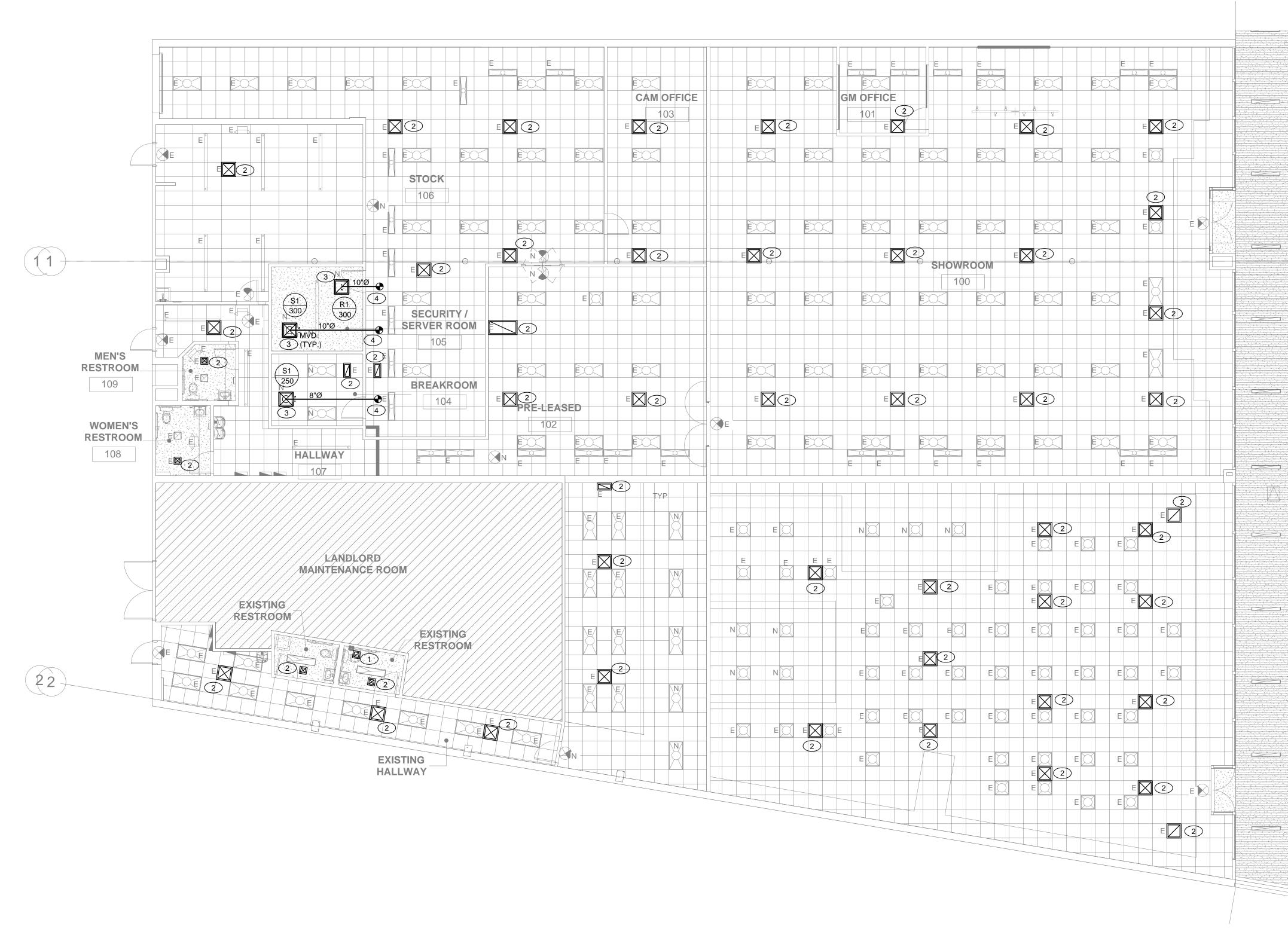
- 1. THE HVAC SYSTEM AND COMPONENTS SHALL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING STANDARDS.
- A. TABB CONSTRUCTION SPECIFICATION INSTITUTE MASTER FORMAT (23 05 93 AND 15990) B. NEBB STANDARDS FOR TESTING, ADJUSTMENT AND BALANCING OF
- ENVIRONMENTAL SYSTEM (7TH EDITION) AABC NATIONAL STANDARD FOR TOTAL SYSTEM BALANCING (6TH EDITION).
- A COMPLETE BALANCING REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION. THE BALANCING REPORT SHALL INCLUDE DESIGN QUANTITIES AND ACTUAL (MEASURED) QUANTITIES FOLLOWING BALANCING. BALANCING SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. T.A.B. CONTRACTOR SHALL BE A.A.B.C. OR N.E.E.B. CERTIFIED, OR COMPANY APPROVED BY ENGINEER.
- 3. INCLUDE IN BID, AS PART OF THE WORK IN THIS CONTRACT, ANY ADJUSTMENTS TO OR REPLACEMENT OF PULLEYS, BELTS, MOTORS, DAMPERS, ETC., REQUIRED FOR CORRECT BALANCING OF SYSTEMS. CONTRACTOR OR EQUIPMENT SUPPLIER TO FURNISH THE ABOVE LISTED ITEMS TO T.A.B. CONTRACTOR TO INSTALL.
- 4. TEST AND ADJUST AIR DEVICES TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN REQUIREMENTS.
- 5. T.A.B. CONTRACTOR SHALL ADJUST THE DEFLECTION OF ALL APPLICABLE SUPPLY AIR DISTRIBUTION FOR PROPER AIR FLOW DIRECTION AND CHARACTERISTICS AS RECOMMENDED BY THE MANUFACTURER AND/OR TO THE SATISFACTION OF THE ENGINEER AND OWNER

AIR DIST	RIBU	TION SC	HE	Ð	ULE		
MANUFACTURER / MODEL	SIZE	CFM	M/ NE VE	CK	MAX N.C.	MAX S.P. DROP	REMARKS
PRICE MODEL	6"Ø	0 - 125	40	00	20	.08	
MODEL SCDA	8"Ø	126 - 250			20	.08	PANEL SIZE: 24"X24"
	10"Ø	251 - 400			20	.08	PAINT INSIDE OF CAN FLAT BLACK, FOR LAY-IN CEILING.
S1	12"Ø	401 - 600			20	.08	
	14"Ø	601 - 800			20	.08	FURNISH WITH SECTORIZING BAFFLE
	16"Ø	801 - 1000			20	.08	(SB) FOR THROW PATTERN CONTROL.
	18"Ø	1001 - 1200			20	.08	
PRICE MODEL	6"Ø	0 - 125	40	00	20	.08	PANEL SIZE: 24"X24"
80	8"Ø	126 - 250			20	.08	1/2" GRID, PAINT INSIDE OF CAN FLAT
00	10"Ø	251 - 400			20	.08	BLACK, FOR LAY-IN CEILING.
R1	12"Ø	401 - 600			20	.08	
	14"Ø	601 - 800			20	.08	
	16"Ø	801 - 1000			20	.08	
	22x22	1001 - 2000			20	.08	
LEGEND SA-1	AIR DISTRI DEVICE	IBUTION		R/ E(T(A - RETU G - EXHA G - TRAN	LY AIR D RN AIR (UST GR ISFER GI IEAR DIF	RILLE

SYMBOL	
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HVAC LEGEND					
SYMBOL CD HWS HWR HPWS HPWR CS CR RS RI HO CWR LPS LPC IPC I	DESCRIPTION CONDENSATE DRAIN HEATING WATER SUPPLY HEATING WATER RETURN HEAT PUMP WATER SUPPLY HEAT PUMP WATER RETURN CONDENSER WATER RETURN CONDENSER WATER RETURN CONDENSER WATER RETURN REFRIGERANT SUCTION LINE REFRIGERANT HOT GAS LINE CHILLED WATER SUPPLY CHILLED WATER SUPPLY CHILLED WATER RETURN LOW PRESSURE STEAM LOW PRESSURE CONDENSATE GATE (SHUT OFF) VALVE BALL VALVE BUTTERFLY VALVE GLOBE VALVE TRIPLE DUTY VALVE SWING CHECK VALVE STRAINER FLEX CONNECTOR PRESSURE REDUCING VALVE		SYMBOL 20"Ø 20"Ø C C C C C C C C C C C C C	DESCRIPTION LIBOW UP DIMENSION DESCRIPTION: 14" # ROUND DUCT 24x12 FO = FLAT OVAL DUCT ELBOW DOWN LONG RADIUS ELBOW RADIUS (R) = 1.5 TIMES DIAMETER OF DUCT DIMENSION DESCRIPTION: 1ST FIGURE = SIDE SHOWN 2ND FIGURE = SIDE NOT SHOWN SUPPLY AIR ELBOW UP SUPPLY AIR ELBOW DOWN EXHAUST/RETURN AIR ELBOW DOWN DOUBLE SIDE TRANSITION TRANSITION SLOPE SPECIFICATION: MINIMUM SLOPE = 15' MAXIMUM SLOPE = 45' SINGLE SIDE TRANSITION SUPPLY AIR SLOPE ON TOP) BOTTOM TRANSITION (SLOPE ON BOTTOM) ACOUSTICALLY LINED SHEET METAL DUCT MANUAL BALANCING DAMPER FLEX CONNECTOR	Image: Construction of the property of the prop
	SAFETY RELIEF VALVE UNION MOTORIZED T.C. VALVE/2-WAY MOTORIZED T.C. VALVE/3-WAY VALVE IN RISER (SPECIFY TYPE) TEE UP TEE DOWN ELBOW UP ELBOW DOWN MANUAL FLOW BALANCING VALV AUTOMATIC FLOW BALANCING VA PIPE ALIGNMENT GUIDE PIPE ANCHOR PRESSURE/TEMP. TEST PLUG DIAL THERMOMETER PRESSURE GAUGE W/ SNUBBER CONNECT NEW WORK TO EXISTIN REDUCER FLOW INDICATOR	E (CIRCUIT SETTER) ALVE		ACCESS DOORS FIRE DAMPER, FIRE/SMOKE DAMPER, SMOKE DAMPER MOTORIZED DAMPER TURNING VANE ELBOW 45' LOW-LOSS TAKE-OFF FITTING W/ DAMPER & FLEX DUCT 45' LOW-LOSS TAKE-OFF FITTING W/ DAMPER & RIGID DUCT 90' TEE TAKE-OFF FITTING 45' TEE TAKE-OFF FITTING CONICAL 90' TEE TAKE-OFF FITTING 45' TEE TAKE-OFF FITTING LOW LOSS TAKE-OFF FITTING SUPPLY AIR DUCT (SINGLE LINE) RETURN AIR DUCT (SINGLE LINE) RETURN /EXHAUST AIR GRILLE SIDE WALL SUPPLY AIR REGISTER DIFFUSER, REGISTER OR GRILLE AS BRANCH DUCT. NECK SIZE SAME 4-WAY THROW	DOCUMENTS OR THE INFORMATION CONTAINED HERIN, CAN ONLY BE USED WITH WRITTEN PERMISSION FROM ADDATE ADDATE OF A DATE
AC AIR CONDITIONII AD ACCESS DOOR AFF ABOVE FINISHEU AHU AIR HANDLING I AMB AMBIENT APD AIR PRESSURE APPROX APPROXIMATE AVG AVERAGE BDD BACK DRAFT D. BHP BRAKE HORSE BOD BOTTOM OF DU BTU/H BRITISH THERM/ CAP CAPACITY CFM CUBIC FEET PEI CU CONDENSING UN CP CONDENSING IN CP CONDENSING COLL D/DIA DIAMETER DB DRY BULB TEMI DEG. DEGREES D.L. DUCT LINER (E) EXISTING EAT ENTERING AIR T EDB ENTERING WET SHEET NAME NO. SHEET MECH. NAME	EXHD FLOORFPMJNITFTGPMDROPHCHPAMPERHWRAMPERHWSPOWERHXCTINAL UNIT/HOURINWGINUTELATNITLWTUMPMAUHEATERMAXDPERATUREMFRBULBNICNONOMTC PRESSURENTSIKOA	ENTERING WATER TEMPERATI EXHAUST FEET PER MINUTE FEET OR FOOT GALLONS PER MINUTE HEATING COIL HORSEPOWER HOT WATER RETURN HOT WATER SUPPLY HEAT EXCHANGER INCHES IN WATER GAUGE INCHES IN WATER COLUMN LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE LEAVING WATER TEMPERATUR MAKEUP AIR UNIT MAXIMUM BTU'S PER HOUR (THOUSAN MOTORIZED DAMPER MANUFACTURER MINIMUM MANUAL VOLUME DAMPER NEW NOT APPLICABLE NOT IN CONTRACT NORMALLY CLOSED NORMALLY OPENED NOMINAL NOT TO SCALE OUTSIDE AIR	PD PRESSU PSI POUND RA RETURN RH RELATIN RT ROOFTO SA SUPPLY FSD FIRE/SI SP STATIC SPEC SPECIFI SL SEALE SQ SQUAR SS STAINLE T.A.B. TEST A IRE TCP TEMPER TEMP TEMPER TSP TOTAL ID) T-STAT THERMO TYP TYPICA UH UNIT H VAV VARIAB VEL VELOCI VFD VARIAB W/ WITH WB WET BU WPD WATER	VE HUMIDITY OP UNIT Y AIR MOKE DAMPER PRESSURE ICATIONS VEL E ESS STEEL AND BALANCING RATURE CONTROL PANEL RATURE STATIC PRESSURE OSTAT L EATER PLE AIR VOLUME TY BLE FREQUENCY DRIVE	THESE DRAMMOS AND THE INFORMATION CONTAINED ON THEM RE DRAMMOS AND THE INFORMATION CONTAINED ON THEM RECT NAME THE SOLE PROPERTY OF KINELIC DESIGN. ANY USE OF TAME PROPERTY OF KINELIC DESIGN. ANY USE OF KINELIC DESIGN. ANY

No. MECH.	SHEET NAME
M001	MECHANICAL
M200	MECHANICAL



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

- A. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO COMMENCING HIS WORK.
- B. COORDINATE DUCT ROUTING INSTALLATION HEIGHTS AND CLEARANCES WITH GENERAL CONTRACTOR.
- C. HVAC CONTRACTOR SHALL REPLACE ALL FILTERS WITH NEW ONES PRIOR TO TURNOVER OF PROJECT TO THE OWNER.
- D. EXISTING PLENUM RETURN SHALL BE USED AS IS.
- E. SMOKE EVACUATION SYSTEM BY OTHERS.
- F. EXISTING ROOF TOP UNIT TO REMAIN, CONTRACTOR VERIFY SIZE AND LOCATION OF UNIT PRIOR OF START TO WORK.
- G. EXISTING THERMOSTAT TO REMAIN. RELOCATED IF IT IS NECESSARY. COORDINATE LOCATION WITH OWNER. CONTRACTOR VERIFY MODEL AND LOCATION OF THERMOSTAT PRIOR OF START TO WORK.
- H. ANY PENETRATIONS TO THE FIRE BARRIER WILL REQUIRE FIRE-SMOKE DAMPER FOR DUCTING AND FIRE CHALKING FOR PIPING. FIELD VERIFY.

MECHANICAL PLAN KEY NOTES

1 EXISTING EXHAUST FAN WITH ALL ACCESSORIES TO REMAIN. CONTRACTOR VERIFY SIZE AND LOCATION OF UNIT PRIOR OF START TO WORK.

- 2 EXISTING AIR DEVICE TO REMAIN. SERVICE AND BALANCE AIR BEFORE OCCUPANCY. CONTRACTOR VERIFY SIZE AND LOCATION OF AIR DEVICE PRIOR OF START TO WORK.
- 3 INSTALL NEW AIR DEVICE AS SHOWN ON PLAN. SERVICE AND BALANCE AIR BEFORE OCCUPANCY.

4 POINT OF CONNECTION FOR NEW DUCT WORK, CONNECT TO EXISTING DUCT WORK NEARBY. CONTRACTOR VERIFY CONNECTION LOCATION OF DUCT WORK ON FIELD.

Kinetic Design 29833 Santa Margarita Pkwy, Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build



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ION CONTAINED ON THEM ARE THE SOLE PROPERTY OF KINETIC DESIGN. ANY USE OF THESE DOCUMENTS OR THE INFORMATION CONTAINED HEREIN, CAN ONLY BE USED WITH WRITTEN PERMISSION	PROJ	∢	26	\geq		SHEE	
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<u>NOTES:</u>

IT IS REQUIRED THAT THE MECHANICAL CONTRACTOR MUST VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH MAJOR ITEMS SUCH AS STRUCTURAL ELEMENTS, PLUMBING LOCATIONS AND ELECTRICAL RUNS. ADDITIONALLY, MECHANICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DIMENSIONS OF SUCH ITEMS AS HVAC UNIT, DUCTWORK, ETC. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN PERFORMANCE OF HIS WORK.

RELOCATE CONDENSATE LINES TO INSIDE THE BUILDING PER LOCAL CODES OR AS NEEDED.

CONTRACTOR TO HANG DUCTS WITHIN 12" OF THE BOTTOM OF THE STRUCTURAL SUPPORTS. CONTRACTOR SHALL VERIFY IN FIELD.

STANDARD ABBREVIATIONS

MAX.

MCB

MIN.

MECH.

MAXIMUM

MINIMUM

MECHANICAL

MAIN CIRCUIT BREAKER

AMPERE

ABOVE FINISHED FLOOR

ARC FAULT, AMP FUSE

ABOVE FINISHED GRADE

Α

AFF

AF

AFG

AIC AL ARCH'L	AMPERE INTERRUPTING CAPACITY ALUMINUM ARCHITECTURAL	MLO MTD NC	MAIN LUGS ONLY MOUNTED NORMALLY CLOSED
AS AWG BC	AMP SWITCH AMERICAN WIRE GAUGE BARE COPPER	NEC NECA NEMA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIAT
BLDG C	BUILDING CONDUIT	NEUT	NEUTRAL NATIONAL FIRE CODE
CAB CAT	CABINET CATALOG/CATEGORY	NF NIC	NON-FUSIBLE NOT IN CONTRACT
C/B CKT CLG	CIRCUIT BREAKER CIRCUIT	NL NO NPCO	NIGHT LIGHT NORMALLY OPEN NEVADA POWER COMPANY
CO, EC COMM	CEILING CONDUIT ONLY COMMUNICATION	NTS OCP	NOT TO SCALE OVERCURRENT PROTECTION
CU (D), DEMO	COPPER DEMOLITION/DEMOLISH	P PH	POLE PHASE
DISC. DN	DISCONNECT DOWN	PNL PV	PANEL PV PHOTOVOLTAIC
DWG EA ELECT.	DRAWING EACH	PVC PWR QTY	POLYVINYL CHLORIDE POWER QUANTITY
ELECT. ELEV EM	ELECTRICAL ELEVATOR EMERGENCY	(R) RECEP	REMOVE AND RELOCATE RECEPTACLE
EMT EQUIP	ELECTRICAL METALLIC TUBING EQUIPMENT	REQ'D RSC	REQUIRED RIGID STEEL CONDUIT
(E), EXIST (ER)	EXISTING EXISTING ELECTRICAL RELOCATED	SCHED SECT SP	SCHEDULE SECTION
FBO FF FIXT	FURNISHED BY OTHERS FINISHED FLOOR FIXTURE	SP SN SPEC	SINGLE POLE SOLID NEUTRAL SPECIFICATION
FLEX FLUOR	FLEXIBLE METALLIC CONDUIT (STEEL) FLUORESCENT	SW SWBD	SWITCH SWITCHBOARD
FT GFA	FEET OR FOOT GROUND FAULT ALARM	SWGR SYS	SWITCH GEAR SYSTEM
GFCI, GFI GND HP	GROUND FAULT CIRCUIT INTERRUPTER GROUND HORSEPOWER	TEMP TELE T-STAT	TEMPORARY TELEPHONE THERMOSTAT
HVAC IBC	HEATING, VENTILATING & AIR CONDITIONING INTERNATIONAL BUILDING CODE	TTB TTC	TELEPHONE TERMINAL BACKBOARD TELEPHONE TERMINAL CABINET
IMC IN	INTERMEDIATE METAL CONDUIT INCH(ES)	TYP. UBC	TYPICAL UNIFORM BUILDING CODE
IRC ISC JB, J-BOX	INTERNATIONAL RESIDENTIAL CODE SHORT CIRCUIT AMPERES	UL U.N.O. V	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE VOLT OR VOLTAGE
KCMIL, MCM	JUNCTION BOX THOUSAND CIRCULAR MILS KILOVOLT AMPERE	VA VD	VOLT AMPERE VOLTAGE DROP
KW LTG	KILOWATT LIGHTING	VP W	VAPOR PROOF WATT, WIRE
		WCR WP WR	WITHSTAND CURRENT RATING UL LISTED WEATHERPROOF, NEMA 3R WEATHER-RESISTANT
		XFMR	TRANSFORMER
	LIGHTING C	ONTROL	SYMBOLS
(A) ³ 10'-0"		AT BOTTOM OF	PE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDIC. F HEXAGON INDICATES MOUNTING HEIGHT FROM FLOC DICATES CEILING MOUNTING.
$ \frac{F1}{1a/EM}$			ESIGNATION INDICATES TYPE OF FIXTURE. BOTTOM NI SWITCH LEG OR CONTROL ZONE. "EM" INDICATES
Sa	LOW VOLTAGE (0-10V) WALL MOUNTED SWITC OF LIGHTING. "a" INDICATES ZONE WHERE SHO		ON/OFF AND DIMMING (STEPPED/CONTINUOUS) CONT INGS.
$\mathbb{S}_{a,b}$	LOW VOLTAGE (0-10V) WALL MOUNTED SWITC OF LIGHTING. "ab" INDICATES ZONE WHERE SH		. ON/OFF AND DIMMING (STEPPED/CONTINUOUS) CONT WINGS.
\$		WIRED WALL S	WITCH TO BE USED WITH NON-DIMMING POWER/RELAY
\$2	TWO POLE SWITCH, 20A, 120/277V		
\$3	THREE-WAY SWITCH, 20A, 120/277V		
\$4			
SD	DIMMER SWITCH, MIN. 2000W, 120/277V	/FRI OAD PROT	ECTION
S _M S _K	KEY SWITCH, 20A, 120/277V		
•	PUSH BUTTON CONTROL STATION		
HOSa	OCCUPANCY SENSOR - WALL MOUNTED. "a" IN SEE CONTROL CONFIGURATIONS FOR MORE I		TROLLED ZONE.
⊦os <mark>a</mark>	OCCUPANCY SENSOR w/ DIMMER - WALL MOU SEE CONTROL CONFIGURATIONS FOR MORE I		CATES CONTROLLED ZONE.
LC	LIGHT CONTACTOR		
ТС	TIME CLOCK		
OS y,(y)	OCCUPANCY SENSOR. QUANTITY OF ADJACE	NT LOWER CAS	RKED/ INTERCONNECTED/ NETWORKED, SYSTEM-BASE SE LETTERS INDICATES QUANTITY OF RELAYS/DIMMING OW FOR MORE INFORMATION. EXACT CONTROL FUNC ⁻
(40) y+,y++	IS PRESENT. NUMBER IN PARENTHESIS INDIC ADJACENT LOWER CASE LETTER(S) INDICATE	ATES THE AVE S SWITCH LEG ENSOR WHERE	LER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL RAGE WORKPLANE "TARGET ILLUMINATION" SYMBOL V (S) CONTROLLED. ADJACENT "+, ++ AND *" INDICATES "+" INDICATES PRIMARY SIDELIT DAYLIT ZONE, "++" ATES SKYLIT DAYLIT ZONE.
CONTROL CONF	GURATIONS:		
у	"y" INDICATES THAT SWITCH LEG "y" TO BE CO (CONTINUOUSLY DIMMED) BY THE ASSOCIATE		N"AUTO ON 100% / AUTO OFF" AND BE CONTROLLED ISOR REMOTE SWITCH ON THE WALL.
у,(у)	"y,(y)" INDICATES THAT SWITCH LEG "y" TO BE CONTROLLED (CONTINUOUSLY DIMMED) BY T		N A " <u>AUTO ON 50%</u> / MANUAL ON 100% / AUTO OFF" ANE D DISTRIBUTED LIGHTING CONTROLS.
(у)	"(y)" INDICATES THAT SWITCH LEG "y" IS TO BE CONTROLLED BY THE ASSOCIATED DISTRIBUT		IN A " <u>MANUAL ON /</u> AUTO OFF" (VACANCY SENSOR) AN CONTROLS.
1			

DEVICES

			мони		
	SYMBOL	DESCRIPTION		NTING HT	
	Φ	SIMPLEX RECEPTACLE			0 _{F-1}
	⇒ ⊕	DUPLEX RECEPTACLE			R
ASSOCIATION		DOUBLE DUPLEX RECEPTACLE	CEILING	FLUSH	TS
SASSOCIATION	€	DUPLEX GFCI RECEPTACLE			С
	φ	SIMPLEX RECEPTACLE			Т
	\Rightarrow	DUPLEX RECEPTACLE			ATS
	-	DUPLEX GFCI RECEPTACLE			
	=	DEDICATED DUPLEX RECEPTACLE			\triangleleft
	÷	DUPLEX RECEPTACLE, SPLIT-WIRED OCCUPANCY SENSOR CONTROLLED/SWITCHED		+18" AFF	
	-	DUPLEX RECEPTACLE, ISOLATED GROUND	WALL	UON	4
	\mathfrak{D}	DUPLEX RECEPTACLES WITH TWO 5V. 3.1A CHARGING PORTS.			\triangleleft
	+	DOUBLE DUPLEX RECEPTACLE			\checkmark
	-	DOUBLE DUPLEX GFCI RECEPTACLE			ΗTV
	F	SPECIAL PURPOSE RECEPTACLE OUTLET			
	Ŧ	SINGLE RECEPTACLE			S⊿ CR
		DUPLEX RECEPTACLE			(FS)
	-	DUPLEX GFCI RECEPTACLE DUPLEX RECEPTACLE, SPLIT-WIRED OCCUPANCY			(ÎS)
		SENSOR CONTROLLED/SWITCHED	ABOVE COUNTER	+6" AFF	ŚD
			OR SPLASH	UON	FD
	王	DUPLEX RECEPTACLES WITH TWO 5V. 3.1A CHARGING PORTS.			CO
	#	DOUBLE DUPLEX RECEPTACLE			DD
	-	DOUBLE DUPLEX GFCI RECEPTACLE			H
		MULTI-OULET ASSEMBLY (SURFACE MOUNTED RACEWAY)			S
	нIJ	WALL MOUNTED CODE SIZE JUNCTION BOX			DH
	J	CODE SIZE JUNCTION BOX	VARIES	VARIES	NOTES: F
		JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE. MOUNT FLUSH IN FLOOR WHEN INDICATED	SEE PLANS	SEE PLANS	A
	· ·	IN A FLOOR BOX SYMBOL.			
	Р	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)			
			BOOF		≪
AGON INDICATES			ROOF	VARIES	
FROM FLOOR TO	ΗŪ	THERMOSTAT ENCLOSED CIRCUIT BREAKER.	WALL	+44" UON	
BOTTOM NUMBER	CB30/3R	AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE			
CATES	[_] _{30/1}	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE			- M
IOUS) CONTROL	30/1	UON			$\overset{\leftarrow}{\leftarrow}$
IOUS) CONTROL	FJ 30/3R	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES SEE PLANS	VARIES SEE PLANS	-}{- = (≧
WER/RELAY PACK	0/1	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE	FLANS	FLANS	(M)
		SPEED UON COMBINATION FUSIBLE DISCONNECT SWITCH AND			,⊂, ∕©∕
	⊠ [⊥] 1/30/3R	MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3			ST
		POLE UON MOTOR. NUMBER INDICATES HORSEPOWER			GFI
	(5)	RATING FOR 1HP AND LARGER	N/A	N/A	
	(F)	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER		N/A	
		FLOOR BOX SPECIFICATIONS	<u> </u>		//
		GLE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PL			$\mathbf{\dot{r}}$
	WIR	EMOLD RFB2-OG/FPCTC WHEN SHOWN IN ON-GRADE E MOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED WHEN	N SHOWN IN A	ABOVE	·
	GRA	D SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN			4
	WIR	EMOLD RFB2-OG/FPCTC WHEN SHOWN IN ON-GRADE E MOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED WHEN	N SHOWN IN A	ABOVE	
	GRA	NDE. NL SERVICE POWER/DATA. DUPLEX RECEPTACLE WITH V			0
		EMOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED.			
/STEM-BASED		ESURFACE COVER SELECTION IN CARPETED AREAS. US ECTION IN HARDWOOD, CONCRETE, TILE AND OTHER HA			(
YS/DIMMING		L SERVICE POWER/DATA. QUAD RECEPTACLES WITH V EMOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED.	OICE/DATA.		
	USE	SURFACE COVER SELECTION IN CARPETED AREAS. US			
T NATURAL LIGHT			ARD SURFAC	E FLOORS.	
" SYMBOL VALUE. NDICATES NE, "++"	WIR	L SERVICE FURNITURE FEED. EMOLD (2) 880-MP2 WHEN SHOWN IN ON-GRADE; 4FFAT BOVE-GRADE OR APPROVED EQUAL.	C SERIES WH	IEN SHOWN	
NE, "++"		RIFY CONNECTION REQUIREMENT WITH MANUFACTURE	R PRIOR TO F	Rough-in.	
	WHE CIRC	EN SHOWN WITH A DIAGONAL SLASH, THE LAST GENERACUIT ON THE HOME-RUN CALLOUT SHALL BE CONTROLL	AL RECEPTAC	CLE	
ROLLED		ISOR. GLE SERVICE FURNITURE FEED.			
O OFF" AND BE	WIR	EMOLD 880-MP2 WHEN SHOWN IN ON-GRADE EMOLD RC7AFFTC SERIES WHEN SHOWN IN ABOVE-GR	· ·	۲)	
		EMOLD RC9AMSTC SERIES WHEN SHOWN IN ABOVE-GR	· · ·		
ENSOR) AND BE	PRC FLO	OVIDE 24" MINIMUM BETWEEN EACH DEVICE TO MAINTAI OR.		IG UF THE	

SIGNAL

	WIRING LEGEND
~	PUSH BUTTON
••	CONTROL SWITCH
t.	TIME SWITCH
xı ∽	
 ∦∕	
└_ エ _┘ ──╢───	CONTACT (NORMALLY OPEN)
	TRANSFER SWITCH
GF	GROUND FAULT INTERRUPT
ST	SHUNT TRIP
∕€∕	GENERATOR
\mathcal{N}	MOTOR
M	POWER METER
<u> </u>	GROUNDING ELECTRODE
${\leftarrow}$	POTENTIAL TRANSFORMER
m	CURRENT TRANSFORMER
TVSS	SURGE SUPPRESSOR
	SWITCH
	FUSED DISCONNECT SWITCH
	FUSE
	SERVICE CABLE TERMINATION
	CIRCUIT BREAKER
	SINGLE LINE
3/4"C.O.	RISER UP WALL WITH PULL STRING TO BLE CEILING SPACE.
	ONE AND DATA OUTLETS PROVIDE ONE (1)
DH	DOOR HOLD OPEN
(s)	SPEAKER, CEILING OR WALL MOUNTED
(H)	HEAT DETECTOR
DD	DUCT MOUNTED SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR (SPECIFIED BY MECHANICAL ENGINEER)
FD	FIRE/SMOKE DAMPER
SD	SMOKE DETECTOR
(TS)	TAMPER SWITCH
(FS)	FLOW SWITCH
	CARD READER
S	FIRE ALARM HORN/STROBE
	TELEVISION CAMERA (CCTV)
HTV	
	OUTLET
\triangleleft	DATA OUTLET ABOVE COUNTER FLUSH FLOOR BOX WITH COMBINATION TELE/DATA
4	TELE/DATA OUTLET ABOVE COUNTER
4	TELEPHONE OUTLET ABOVE COUNTER
	COMBINATION TELE/COMPUTER OUTLET AT +18"
\triangleleft	DATA OUTLET AT +18"
•	TELEPHONE OUTLET AT +18"
ATS	AUTOMATIC TRANSFER SWITCH
T	TRANSFORMER
C	CONTACTOR
TS	TIME SWITCH
R	RELAY
	ENCLOSED CIRCUIT BREAKER
① _{F-1}	THERMOSTAT OUTLET AT +54" (HVAC UNIT DESIGNATION)

o	RACEWAY TURNED UP
-	RACEWAY TURNED DOWN
	HOMERUN TO PANELBOARD 3/4"C W/3#12 CONDUCTORS UNO
	CONDUIT CAP-OFF

APPLICABLE CODES

2015	MICHIGAN BUILDING CODE
2015	MICHIGAN RESIDENTAL CODE
2015	MICHIGAN REHABILITATION CODE
2015	MICHIGAN PLUMBING CODE
2015	MICHIGAN MECHANICAL CODE
2015	MICHIGAN ENERGY CODE
2017	MICHIGAN ELECTRICAL CODE

ELECTRICAL SHEET INDEX

NO.	SHEET	DESCRIPTION
1	E001	SYMBOLS AND ABBREVIATIONS
2	E002	ELECTRICAL SPECIFICATIONS
3	E003	ELECTRICAL DETAILS
4	E201	LIGHTING PLAN
5	E301	POWER PLAN
6	E302	ENLARGED PLANS AND DETAILS
7	E401	SINGLE LINE DIAGRAM
8	E402	PANEL SCHEDULE

ALLOWED SPECIFICATIONS DEVIATIONS

THE FOLLOWING ITEM(S) ARE ALLOWED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER. NONE

SCOPE OF WORK

INTERIOR REMODEL OF EXISTING AARON'S FURNITURE STORE. SCOPE TO INCLUDE NEW EGRESS DOOR, ADDITIONAL LIGHTING, NEW NON-LOAD BEARING INTERIOR PARTITION WALLS, NEW FINISHES AND FIXTURES. FLOORING AND BASE TO BE REPLACED IN EXISTING RESTROOMS. NEW CEILING TILES TO BE PROVIDED WHERE REQUIRED AND EXISTING CEILING GRID TO BE PAINTED WHERE INDICATED.

ANY MODIFICATIONS TO THE EXISTING FIRE ALARM AND FIRE SPRINKLER SYSTEMSHALL BE DESIGNED BY MICHIGAN LICENSED CONTRACTORS/ENGINEERS AND SUBMITTED FOR APPROVAL UNDER A SEPARATE APPLICATION (DEFERRED SUBMITTAL).

DEFERRED APPROVAL

FIRE ALARM SYSTEM SHALL BE UNDER SEPARATE PERMIT. SEPARATE PLANS SHALL BE SUBMITTED FOR APPROVAL BY A FIRE ALARM ENGINEER AND ALL PERMITS, INSPECTIONS AND APPROVALS SHALL BE OBTAINED FROM THE FIRE DEPARTMENT HAVING JURISDICTION.

VIA SEPARATE SUBMITTAL BY SIGN CONTRACTOR, OBTAIN APPROVALS AND PERMITS FOR ALL SIGNS INCLUDING SIGN LIGHTING CERTIFICATE OF COMPLIANCE.

VIA SEPARATE SUBMITTAL, OBTAIN APPROVALS AND PERMITS FOR ALL ELECTRICAL SUBSYSTEMS WITH POWER SUPPLIES OF MORE THAN 50 VA AND/OR 250 VOLTS [E.G. SECURITY, TELCO/DATA, P.A, AUDIOVISUAL, HVAC CONTROLS, ETC.]

NOTE FOR ELECTRICAL CONTRACTOR

ELECTRICAL CONTRACTOR TO SURVEY EXISTING CONDITION AND REPORT TO OWNER. BID TO INCLUDE SCOPE OF EXTENDED WORK, INCLUDING REQUIREMENTS OF STATE & LOCAL CODE

BRANCH CIRCUIT SYMBOLS

CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 P1-1,3,5 – P1-1&3&5 🖵 P1-1+3+5 🚽

CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER N.E.C. TABLE 250-122, BUT NOT SMALLER THAN #12. CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS

INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBERS. HASH MARKS DENOTE NUMBER OF CONDUCTORS IN CONDUIT, #12 AWG MINIMUM, UNLESS OTHERWISE NOTED.. CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS

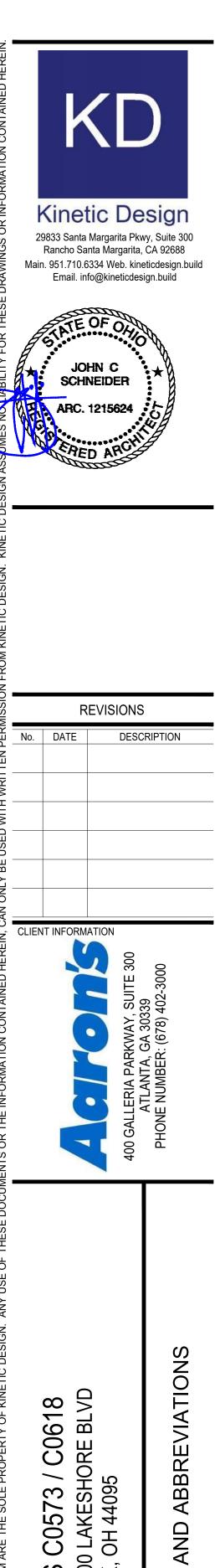
INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBERS WITH SEPARATE NEUTRALS. "&" INDICATES SEPARATE NEUTRALS. CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS

INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER. "+" INDICATES SEPARATE #10 AWG NEUTRAL THROUGHOUT BRANCH CIRCUIT. HASH MARK " | " INDICATES ISOLATED GROUND CONDUCTOR.

CONDUIT CONCEALED IN CEILING OR WALL. 1/2" CONDUIT MINIMUM, 2#12 AWG CONDUCTORS MINIMUM.

CONDUIT CONCEALED BELOW FLOOR SLAB OR UNDERGROUND. 3/4" CONDUIT MINIMUM, 2#12 AWG CONDUCTORS MINIMUM, AND A CODE-SIZED EQUIPMENT GROUND. EXPOSED OR SURFACED MOUNTED CONDUIT, UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, 2#12 AWG CONDUCTORS MINIMUM.

DASHED LINE INDICATES REMOVE/RELOCATE EXISTING ---- ELECTRICAL AS REQUIRED



AND

SHEET NAME SYMBOLS ,

TP

03/07/23

AS NOTED

CHECKED

AARON'S C 29850 - 29900 I WILLOWICK, O

MH

E001

DRAWN

DATE

뿐 SCALE

SHEET

FROJECT NUMBER

PART I - GENERAL

A. CONDITIONS

- 1. Furnish and install a completely wired and operational electrical system as shown on the drawings and specified herein, including but not limited to, these major items.
- 1.1. Lighting fixtures as indicated and specified on the plans.
- 1.2. Electrical panels, service, conduit, wiring, etc., for all outlets and equipment.
- 1.3. Telephone outlets and conduit as indicated.

B. RELATED WORKS

- The Electrical Contractor shall provide conduit, trench, and backfill for electrical service entrance from the main service to utility point of electrical service. Electrical Contractor shall coordinate the installation of the electrical service entrance with serving utility company.
- The Electrical Contractor shall provide conduit, trench, and backfill for primary phone and CATV service from the telephone terminal board or cabinet to the phone company and CATV company point of service.
- C. CODES, REGULATIONS, AND STANDARDS
- 1. The installation shall comply with applicable local and state codes and ordinances, with the regulations of the currently accepted edition of the National Electric Code and with the requirements of the power, telephone, and CATV companies furnishing services to this installation.
- 2. The following industry standards, specifications, and codes are minimum requirements:
- 2.1. The National Electrical Code (NEC), including local amendments.2.2. Underwriter Laboratories (UL) incorporated standards.
- 2.3. American National Standards Institute (ANSI).

D. INSPECTION OF SITE

- 1. Prior to submitting a bid for electrical work, the contractor shall visit the site of the proposed construction and shall thoroughly acquaint himself with existing utilities, and working conditions to be encountered, etc. Allowance will not be made for noncompliance with this condition after bidding.
- 2. Electrical installation shall meet the existing conditions.
- E. STORAGE AND HANDLING OF MATERIALS
- Deliver materials and equipment to the project in the manufacturer's original, unopened, labeled containers. Protect against moisture, tampering, or damage from improper handling or storage. Contractor shall protect and be responsible for any damage to work or materials until final acceptance by the owner, and shall make good without cost to the owner, any damage or loss that may occur during this period.
- 2. Arrange for timely delivery of materials and equipment to the job site in order to minimize the length of time between delivery and installation.
- 3. Cover and protect any material which may be affected by the weather while in transit or stored at the project site. Any material found defective or not installed in accordance with the contract documents may be rejected by the engineer.

F. CLEANUP

1. Keep the premises free from accumulation of waste materials, or rubbish caused by employees or work under this division of the specifications. At the completion of the work remove all surplus materials, tools, etc., and leave the premises broom-clean.

G. EXCAVATION

1. Perform all excavation and back filling required for work performed under this division of the specifications. Use excavated materials for backfill unless off site materials are deemed necessary.

H. DRAWINGS

1. The drawings indicate the general arrangement and locations of the electrical work data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural, and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the engineer in writing before the date of bid opening. If discrepancies are not reported, the Contractor shall bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Contractor shall be responsible to field measure and confirm mounting heights and location of electrical equipment with respect to counters, radiation, etc. Do not scale distances off the electrical drawings, use actual building dimensions.

I. EXCAVATION, CUTTING, AND FITTING

- 1. Perform the excavation, cutting, fitting, repairing, and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural members shall be done without the consent of the architect.
- J. COOPERATION WITH OTHER CONTRACTORS
- Cooperate with the other trades so that the installation of the electrical outlets and equipment will be properly coordinated. Conduit, lighting fixtures, and other equipment locations shall be checked with other trades to avoid conflict with the piping, ductwork, steel, beams, or other obstructions. Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of materials of other trades.
- 2. Coordinate the location of the trenches and conduits for electrical and telephone utility services with the general contractor.
- 3. Coordinate HVAC equipment connection requirements with HVAC contractor.

PART II - PRODUCTS AND EXECUTION

A. MATERIALS

- 1. All materials shall be new and of quality as specified on the plans or specifications and must carry the Underwriter's Laboratories approval covering the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations.
- B. CONDUIT
- 1. All wiring shall be installed in listed metallic conduit except as permitted below. RGS, with a 20 mil PVC coating will be used when in contact with

earth. IMC may be used in indoor locations not in contact with the earth. EMT may be used in indoor locations not in contact with earth, not in concrete slabs or walls and not subject to damage. PVC may be used in or below concrete and direct buried in earth. Flexible steel conduit shall be used for indoor final connections to equipment in lengths not to exceed 72". Liquid-tight flexible steel conduit shall be for outdoor final connections to equipment not to exceed 36".

- Cover metallic conduit in contact with earth with polyethylene taped spiral wrapped, 1/2 lapped to provide 20 mil. thickness. Tape shall be Scotch no. 50 tape. Conduit and ducts not under buildings and feeder ducts shall be installed per N.E.C. 300-5. make joints with compound to be watertight.
- 3. Fittings and conduit bodies shall be steel. No diecast fittings.
- 4. Conduit sizes shall be as required by code and as indicated or specified.
- All empty conduit systems shall have a nylon pull string to facilitate installation of future wire.
- Schedule 40 PVC conduit shall be permitted underground with proper fittings, all UL Approved and cemented joints. Penetrations through floor slabs and bends greater than 22° shall be wrapped rigid galvanized steel elbows.
- 7. Conduits and outlets shall be concealed with the building structure, except that certain motor and lighting feeder conduits may be run exposed in certain areas as indicated on the drawings. Conduit shown to be installed in cabinets, counters, and casework shall be run as directed by the architect.
- 8. All conduit systems shall have a Code sized copper ground conductor increase conduit size as required.
- 9. Conduit penetration through roof shall have roof flashing with caulk type counter flashing sleeve. Installation shall be watertight.
- 10. Conduits shall be routed surface on the structure, parallel and perpendicular to the structure.

C. OUTLET, PULL, AND JUNCTION BOXES

- 1. Each switch, light. receptacle or other outlet shall be provided with a Code gauge, galvanized steel outlet box. Junction and pull boxes shall be Code gauge, galvanized steel. Outlet boxes shall be of the one piece, knockout type, in general 4" square with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of wall. Single gang rings similar to Steel City 52050 shall be used for 4" boxes in unfinished brick number 180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in block course.
- 2. Boxes installed in poured cement floors shall be flush type cast iron or steel with watertight gasketed covers. Where boxes are installed in floors with tile or carpet floor covering, covers shall be of the recessed type to accommodate the floor covering.
- 3. Boxes installed for the alarm, computer, and security system shall be provided with appropriate cover plates.
- 4. Boxes for telephone, computer, TV, fire alarm, security, and similar systems shall be minimum 4" square and 2-1/8" deep.
- D. SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS

- See Single Line Diagram General Notes on drawings for more information.
 E. PANEL BOARDS
- L. TANLE DOARDO
- 1. See drawings for panel board schedules and specifications.

F. WIRE

- 1. Conductor sizes shown on the drawings are based on copper wire. Unless otherwise specified, all wire shall be Type XHHW for feeders or branch circuits larger than 4 AWG, Type THHN/THWN insulation for feeders and branch circuits 4 AWG and smaller. All branch circuit wiring shall be copper. The wire shall be 12 AWG unless otherwise indicated. Circuit shall be labeled in each junction box.
- 2. Metal Clad Cable "Type MC" cable may only be utilized for interior branch circuitry supplying lighting fixtures, not to exceed 6-ft. in length from junction box to the fixture served. "Daisy Chaining" of light fixtures is not allowed.
- 3. When use is permitted in the Allowed Specification Deviations, Metal Clad "Type MC" cable may be installed per NEC Article 330. Where multiple cables are routed adjacent to each other (bundled), a minimum separation of one (1) cable diameter (largest) shall be required.
- 4. The wires shall be marked with color to simplify circuit identification. Unless otherwise required by local ordinances:

208/1	20 Volts
Phase A	= Black
Phase B	= Red
Phase C	= Blue
Veutral	= White
Ground	= Green
480/2	77 Volts
Phase A	= Brown
Phase B	= Orang
Phase C	= Yellow

- Neutral = Gray Ground = Green
- 5. No wire shall be installed in the conduit system until the conduit system is complete. Use Mineralac No. 100 or equivalent as a lubricant to facilitate the installation of the conductors in the conduit system.
- 6. Splices in exterior pull boxes and manholes shall be weatherproof using "Scotchcast" splice kit or approved equal. Seal ends of conduits and ducts with "Ductseal" or approved equal.
- 7. Provide solid conductor for 12 AWG and smaller.
- 8. Provide 10 AWG conductors for 20 ampere, 120V branch circuits longer than 75-feet and 8 AWG conductors for 20 ampere, 120V branch circuits longer than 120-feet. Provide 10 AWG conductors for 20 ampere, 277V branch circuits longer than 200-feet.

G. WIRING DEVICES

- 1. Wall switches shall be Specification Grade AC silent type switches, 20A, 120/277 volt.
- 2. Receptacles shall be Specification Grade, duplex type, NEMA 5-20R, 20 ampere, 120 volt grounded type. Special application receptacles shall be indicated on plans. Mount with the ground down.
- 3. Device plates shall be equal to sierra smooth-line plastic wall plates. Color

shall be white, unless otherwise noted.

- 4. All receptacles identified as weatherproof on the drawings shall be weather-resistant, tamper-resistant, GFCI type and equipped with enclosure that is weatherproof (WP) whether or not the attachment plug cap is inserted (while "IN-USE"). An outlet box hood shall be listed and shall be identified as "Extra Duty".
- 5. Except as otherwise noted, all wiring device plates on the project shall be labeled with panel and circuit number(s) utilizing a Brother P-touch labeling system with 1/2" tape (yellow on black) or equal HellermannTyton or Panduit. Locate label on the concealed side of the wiring device plate. Handwritten labels are unacceptable.

H. LIGHTING FIXTURES

1. Provide all lighting fixtures, wired and connected. the drawings indicate the fixtures for each location. Provide lamps for all fixtures. The lamps shall be by the same manufacturer. Verify ceiling construction before ordering recessed units. Provide plaster frames and hangers as required. Ceiling construction, architectural accessories, voltage, and ballasts to meet the existing condition.

I. SERVICE ENTRANCE SECTION

- 1. The service entrance equipment shall be as indicated on the drawings. Equipment shall carry the UL label and shall conform to the power company regulations.
- 2. Service entrance equipment shall be provided with a fully rated copper or aluminum bus. Horizontally tapered bussing shall not be allowed.

J. SYSTEM GROUNDING

- 1. Grounding shall comply with requirements of Article 250. All exposed non-current carrying metallic parts of electrical equipment, metallic raceway systems, metallic cable armor, grounding conductor of nonmetallic sheathed cables, grounding conductor in nonmetallic raceways, and grounded conductors of the wiring system shall be grounded.
- 2. Grounding conductor (neutral) of the wiring system shall be connected to the system grounding conductor at a single place in each system by removable bonding jumpers, sized according to the applicable provisions of the National Electrical Code. The grounded conductor (neutral) to the grounding conductor connection shall be located in the enclosure for the system's overcurrent protection or where otherwise indicated on the plans or specifications.
- 3. A ground bus separate from the neutral bus shall be provided in all switchboards and panelboards. Ground bus shall be retorqued (checked) prior to energizing equipment per manufacturer's recommendations.
- 4. Ground buses and neutral buses in all distribution panels, switchboards, panelboards, and those provided in any equipment shall be isolated except where required to be connected as specified above for the service entrance and in transformer terminal compartments.
- 5. When indicated on the drawings, equipment grounding conductors shall be extended from the ground bus in the distribution equipment to the receptacle, fixture or device lugs where they are provided. Where lugs are not provided, equipment grounding conductors shall be connected to equipment enclosures. The connections shall be arranged such that removal of the receptacle, equipment ground conductors, or ground jumpers from ground busing shall not affect the ground system.
- 6. Raceways may not be used as a grounding conductor for power and lighting circuits. All conduit shall have separate Code sized green ground wire installed in the conduit to insure a continuos grounding path.
- 7. In inaccessible locations, make connections by exothermic weld process.
- In accessible locations, connections shall be made with bolted through, approved solderless bronze grounding devices.
- Bond together metal siding not attached to grounded structure bond to ground.
- K. TELEPHONE SYSTEM
- 1. Telephone wall outlets shall consist of standard boxes mounted 18" above the floor unless otherwise indicated. Connect outlets to telephone terminal with separate 3/4" conduit unless otherwise shown on drawings. Provide a terminal mounting board for the incoming service cable.

L. LIGHTING CONTROL

- 1. Furnish and install time switches, photocells, contactors and full lighting control systems as required for lighting controls indicated on the drawings.
- 2. Time switches shall be equal to Paragon, General Electric, Tork, or Intermatic and shall have size and number of poles as required.
- 3. Photocells shall be equal to Tork or Intermatic with voltage as indicated.

M. DRY TYPE TRANSFORMERS

1. Manufacturers: subject to compliance with requirements, provide products by one of the following

1.1.	Acme Electric Corporation; Power Distribution Products Division.
1.2.	GE Electrical Distribution & Control.
13	Faton

1.4. Square D/Groupe Schneider NA.

- 2. Coils: Continuous windings without splices, except for taps.
- 3. Internal coil connections brazed or pressure type.
- 4. Coil material copper
- 5. Enclosure ventilated, NEMA 250, Type 2 (NEMA 3R for outdoor installations).
- Insulation class 220°C, UL-component-recognized insulation system with a maximum of 150C° rise above 40°C ambient temperature.
- Taps for transformers 25 kVA and larger two 2.5 percent taps above and four 2.5 percent taps below normal full capacity.
- 8. Wall brackets manufacturer's standard brackets.
- 9. Low-sound-level-requirements minimum of 3 dba less than NEMA ST-20 standard sound levels when factory tested according to IEEE C57.12.91
- N. GUARANTEE
- 1. Guarantee all material furnished and all workmanship performed for a period of one year from date of final acceptance of work. Any defects developing within this period, traceable to material furnished as a part of this section or workmanship performed hereunder, shall be made good at no expense to the owner.

O. SHOP DRAWINGS AND APPROVALS

- 2. The items specified herein and on drawings are used as a standard of quality. any materials of equal quality and aesthetic value will be given consideration as a substitute for the materials specified. No approval will be given to a specific catalog number, model, or type of equipment, prior to bidding. After bidding, the decision of the Architect and/or Engineer determining equal materials will be final.
- 3. The contractor shall submit shop drawings on the following items:
- 3.1. Lighting fixture cuts and performance data.3.2. Outline drawings and data sheets of each panelboard and switchboard.
- 3.2. Outline drawings and data sheets of each panelboard and switchboard.3.3. Outline drawings of all switchgear.
- 4. Submit items at one time in a neat and orderly manner within 15 days of award of contract. Partial submittals will not be acceptable.

P. RECORD AND AS-BUILT DRAWINGS

- 1. The Electrical Contractor shall maintain a set of drawings at the job site for the exclusive purpose of maintaining a record of all work installed and to show any deviations from the work indicated on the drawings.
- 2. At the completion of the project, one set of reproducible drawings, showing all As-Built conditions, shall be delivered to the Owner for acceptance prior to final payment.

Q. HOUSEKEEPING PADS

- 1. Provide a minimum of 3" high housekeeping pad above finished floor/ finished grade for all floor-mounted switchgear, switchboards, distribution boards, transformers, motor control centers, etc., flush with the face of the equipment. Located in mechanical central plants(s), other mechanical spaces, and located outdoors, pads shall be flush with the face of the equipment. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads.
- 2. Unless otherwise noted above, provide a minimum of 1-1/2" high housekeeping pad above finished floor/finished grade for all interior floor-mounted switchgear, distribution boards, transformers, motor control centers, transfer switches, etc., flush with the face of the equipment. All housekeeping pad heights are as measured from finished floor or grade. Confirm pad dimensions with local inspector prior to forming pad to ensure local code interpretations/conditions are met regarding housekeeping pads.
- 3. Provide a 1-1/2" high housekeeping pad above finished floor/finished grade for service equipment. Prior to pad rough-in, Contractor shall verify serving utility company's maximum meter height requirements and, if necessary, adjust height of housekeeping pad to comply with those requirements. In indoor applications, the housekeeping pad shall be flush with the face of the switchgear. In outdoor applications, the housekeeping pad shall extend a minimum of 4 feet from the front of switchgear's weatherproof enclosure. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads.
- 4. All housekeeping pads located in, on, or attached to a building shall be seismically braced/connected to the building structure.

R. EQUIPMENT CONNECTIONS

- 1. Provide flexible connections to all HVAC equipment, water heater, etc any equipment over 20 lb and/or mounted above finished floor.
- 2. Coordinate electrical requirements for all plumbing and mechanical equipment with final Contractor selection. The Contractor shall size disconnects based upon circuit breaker ratings and provide fusing as required per equipment manufacturer recommendations and UL Listing requirements.

S. MOTORS

- 3. Where motors are installed in suspended ceilings, contractor shall provide disconnect switch in suspended ceiling within reach from access point.
- 4. Sizing of motor-related electrical components, including feeder and/ or branch circuits (wire and conduit) and overcurrent protection (breaker and/ or fuses) is based on ratings indicated in the contract documents as well as NEC approximated loads for a given motor horsepower, voltage and phase. It is the contractor's responsibility to verify actual motor and appliance rating and loads. Contractor to provide correctly sized motor overload electrical components based on nameplate rating. Reflect all changes in the as-built drawings.

T. FIRE SYSTEM

- 1. Contractor shall engage the services for a state licensed fire alarm manufacturer/installer to prepare all design drawings and calculations required for system approval by the authority having jurisdiction. Submit all plans and provide all permits required for a complete and operable approved life safety system.
- 2. Fire alarm device wiring shall be minimum #14 AWG copper or per system manufacturer requirements. Provide minimum 3/4" separate raceway system or as required for life safety system wiring configuration.
- 3. Upon completion of the installation of life safety system wiring and devices, a performance test of the entire life safety shall be performed to the satisfaction of the authority having jurisdiction.

U. LOW VOLTAGE SYSTEMS

1. Music, television, video mounting systems are not shown on these drawings and are provided by Contractor through architects schedules/details. Contractor to coordinate all routing and final connections as approved by Starbucks Manager as applicable specifically to this store.

V. IDENTIFICATION OR EQUIPMENT LABELING

- 1. Nameplates shall be provided for switchgear, switchboards, distribution boards, distributions panels, panel boards, motor control centers, transformers, transfer switches, contactors, starters, disconnect switches, enclosed circuit breakers/switches, Inverters, UPS's, PDU's, RDC's, SPD's, lighting control panels, dimming panels, door releasing system panels, fire alarm/central monitoring terminal cabinets/power supplies/control panels, and all low voltage system terminal and control cabinets.
- 1.1. Nameplate inscriptions shall be identical to the equipment designations indicated in plans and specifications. Nameplates shall be engraved with the device designation/identification on the top line, source identification for the device on the 2nd line per NEC, or CEC where adopted, Art 408.4 and load designation for the device on the bottom line. Where load designation consists of a branch circuit, omit bottom line. Where device designation is not intended on plan/specfications. Contractor shall submit a written clarification request to the Engineer.
- 1.2. All circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDU sub-feed

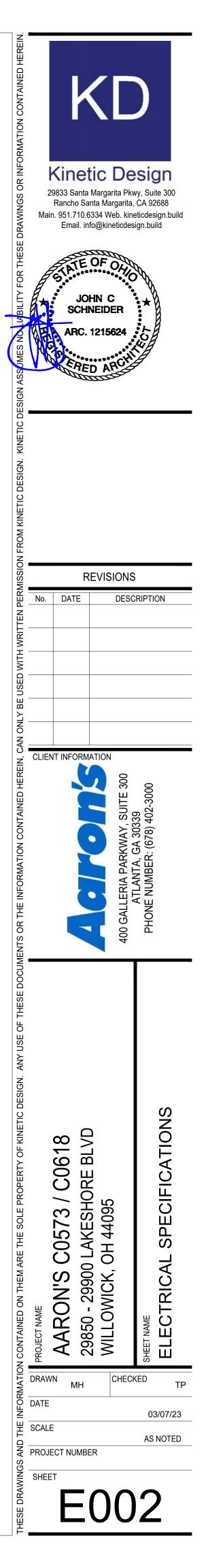
circuit breakers and motor control centers shall have individual nameplates located immediately adjacent to the respective device. Nameplate inscription shall identify the downstream equipment or device served by the circuit breaker or fuse.

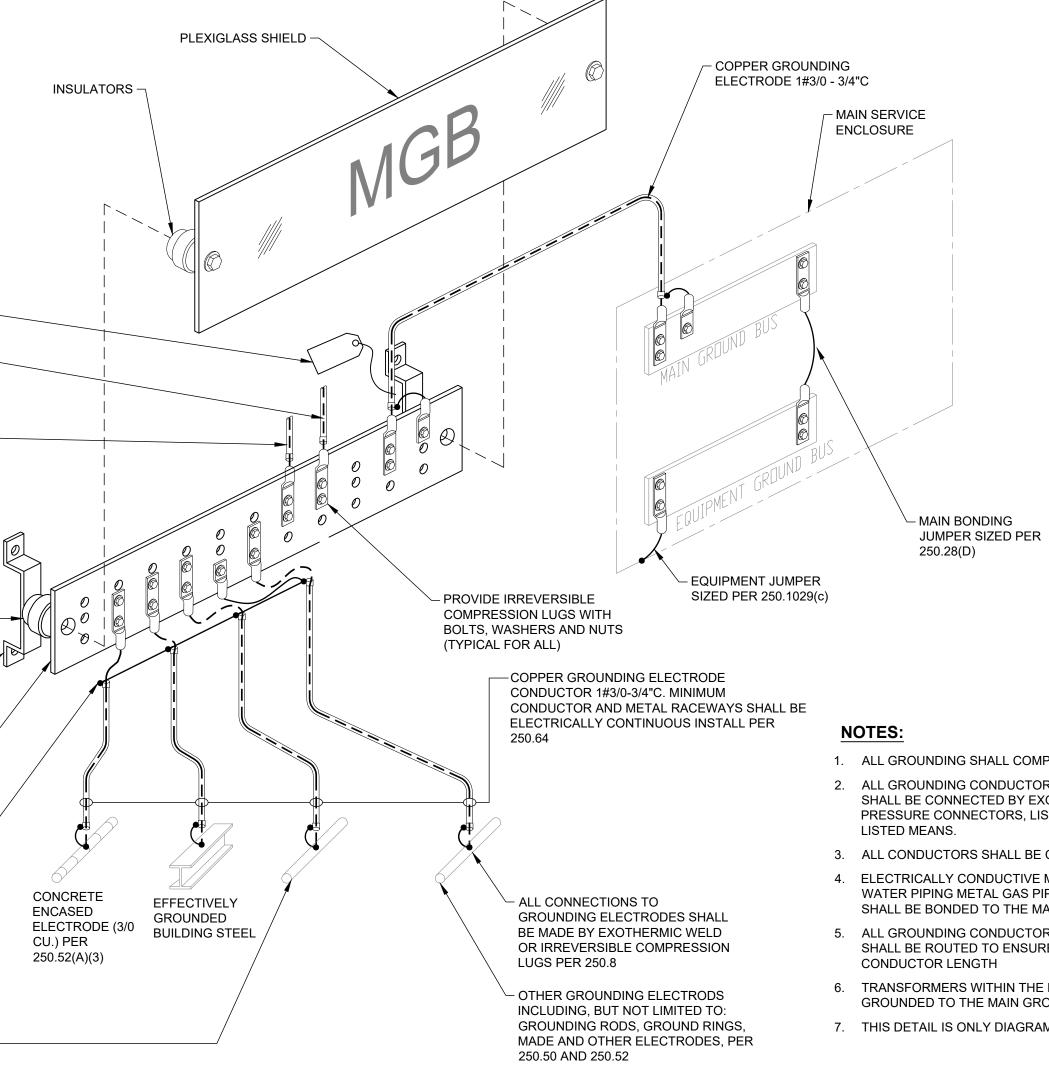
2. Identification nameplates, unless otherwise noted (UON), shall be laminated/extruded modified acrylic or melamine plastic labels that is 3/32" thick, UV-stabilized, matte finish, suitable for use in 180°F ambient, with beveled edges and engraved white letters 3/8" high, minimum, on 1-1/2" high black background for single line of text. Where two lines of text are required, provide minimum 2" high nameplate. Where three lines of text are required, provide 2.5" high nameplate. Provide white letters on red background for all NEC, or CEC where adopted, Article 517 essential power systems, Article 700 Emergency Systems, Article 701 Legally Required Standby Systems and Article 708 COPS.

3. Identification nameplates for new switchgear, switchboards, distribution boards, distribution panels, panel boards and motor control centers shall be attached with switchgear manufacturer-provided screws via switchgear manufacturer factory pre-drilled holes. A factory option to rivet identification nameplates to the equipment is only acceptable if screw-fastened nameplates are not an available option from the switchgear manufacturer. Field drilling or other mechanical attachment methods that change/void the NEMA or NTRL rating of the enclosure are strictly forbidden.

4. Identification nameplates for transformers, transfer switches, disconnect switches, enclosed circuit breakers/switches, inverters, UPSs, PDUs, RDCs, SPDs, lighting control panels, dimming panels, door-releasing system panels, terminal cabinets and all circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDUs, PDU sub-feed circuit breakers, and motor control centers shall be attached to the equipment by self-adhesive backing integral to the nameplates. When equipment is located outdoors, provide nameplates without self-adhesive backing and attach to equipment using weather-rated, UV-resistant epoxy. In all cases, clean surfaces before applying identification nameplates parallel to equipment lines.

5. Warning Placards, as required by General Single Line Diagram Notes for multiple power sources, or instruction placards, as required for all kirk-key interlock schemes, all UPS bypass procedures or as required elsewhere in the plans/specifications shall be engraved 1/2" high with white lettering on red background using the same material specified for identification nameplates with a self-adhesive backing. Warning/instruction placards shall be attached to the face of the equipment directly related to the placards.





PROVIDE PERMANENT TAG -----TO IDENTIFY EACH CONDUCTOR

TELECOMMUNICATION GROUND — 1#1/0 (3/0 OVER 100 FT) CU, 3/4"C TO TELECOMMUNICATIONS ROOM BACKBOARDS AND GROUNDING BUS BARS.

> TELEPHONE/CATV UTILITY GROUND -1#1/0 CU (3/0 OVER 100 FT), 3/4"C TO UTILITY CO. TELEPHONE/CATV BACKBOARD

INSULATORS -

MOUNTING SCREWS) SECURE TO STUDS OR PROVIDE BACK PLATE

COPPER MAIN GROUND BUS -/ (1/4"x4"x24"L) PRE-DRILLED W/ HOLES ON 2" CENTERS HORIZONTALLY AND 1" VERTICALLY. MOUNT 18" A.F.F. PROVIDE CODE REQUIRED CLEARANCES.

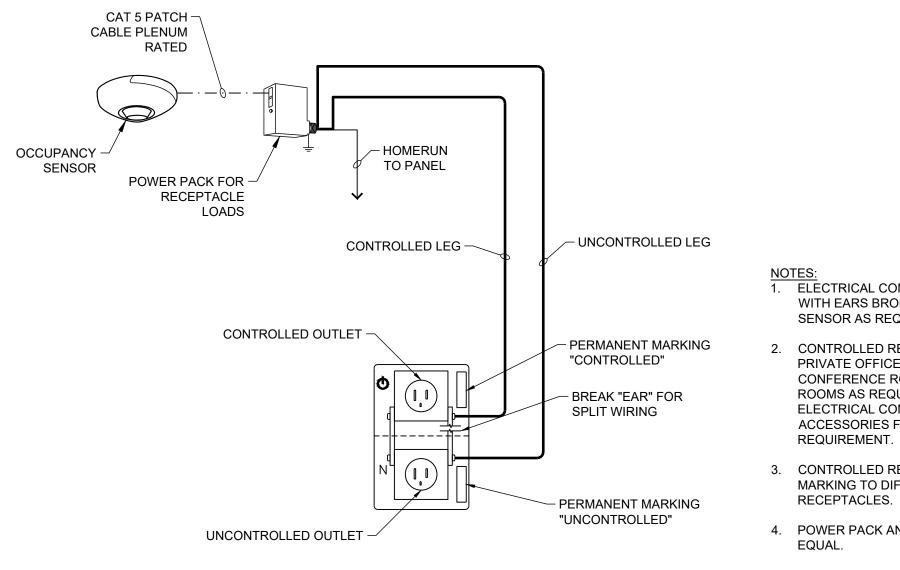
ALL METAL RACEWAYS AND ARMOR -ENCLOSING A GROUNDING ELECTRODE CONDUCTOR SHALL FITTED WITH A BONDING BUSHING AT EACH END AND BE BONDED TO ALL INTERVENING RACEWAYS. BOXES AND ENCLOSURES BETWEEN THE SERVICE EQUIPMENT AND THE GROUNDING ELECTRODE PER 250.92. BONDING CONDUCTOR SIZED TO THE LARGEST GROUNDING CONDUCTOR IN GROUP.

METAL UNDERGROUND PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FEET OR MORE AND ELECTRICALLY CONTINUOUS PER 250.50(A)(1). BOND WITHIN 5 FEET OF ENTERING BUIDING PER 250.039(A)(3)(b)

SCALE: NONE

2

MAIN SERVICE SYSTEM GROUNDING DETAIL

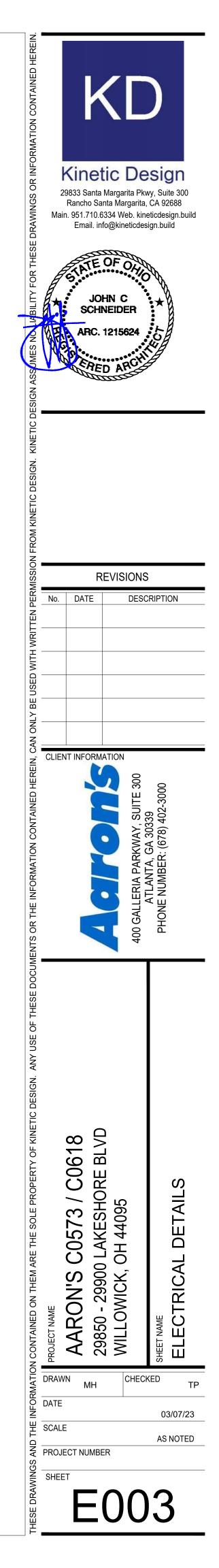


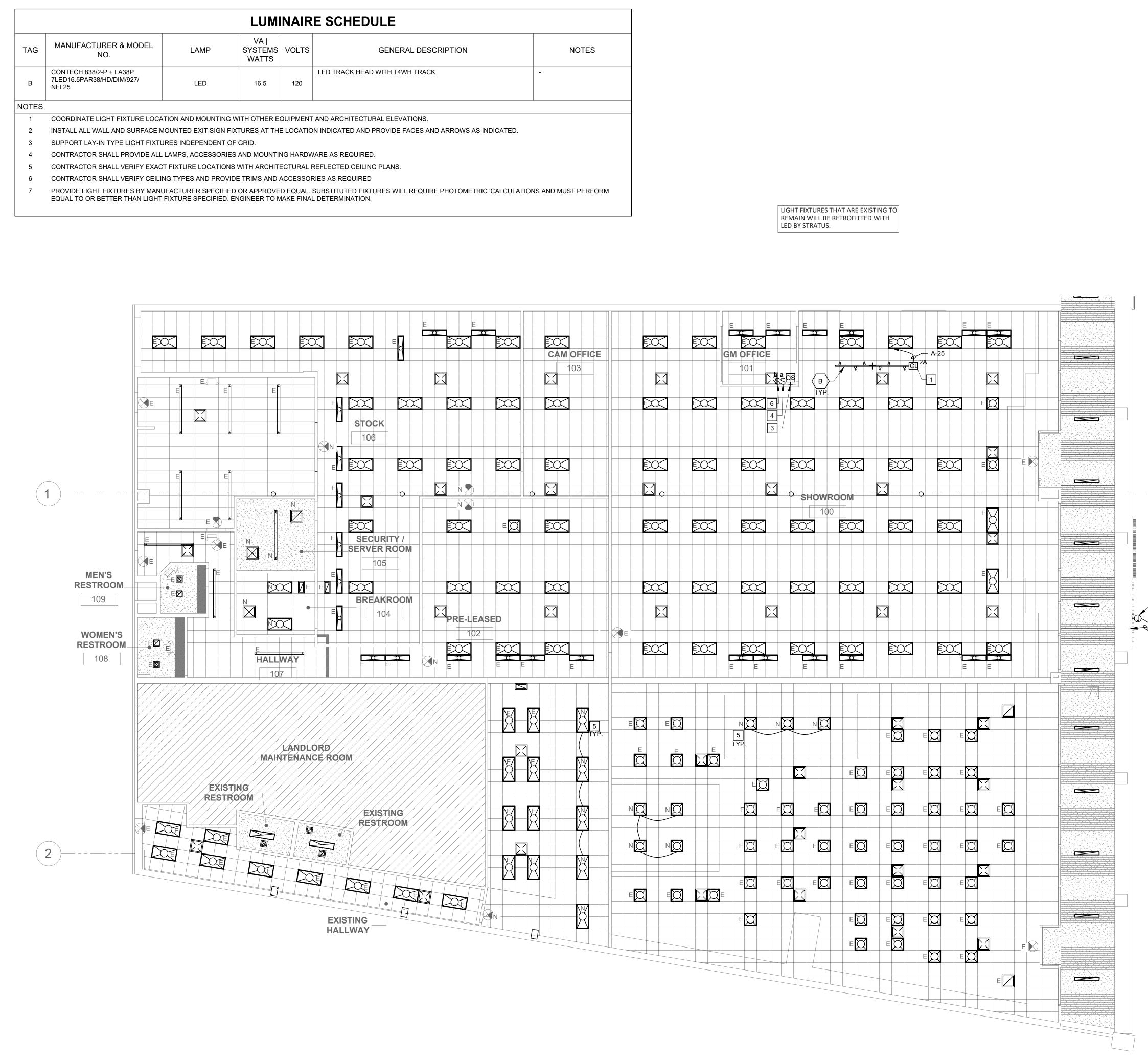
CONTROLLED RECEPTACLE WIRING DETAIL

SCALE: NONE

- 1. ALL GROUNDING SHALL COMPLY WITH ARTICLE 250.
- 2. ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS, OR OTHER
- 3. ALL CONDUCTORS SHALL BE COPPER
- 4. ELECTRICALLY CONDUCTIVE MATERIALS SUCH AS METAL WATER PIPING METAL GAS PIPING AND STRUCTURAL STEEL SHALL BE BONDED TO THE MAIN GROUND BUS.
- 5. ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE ROUTED TO ENSURE SHORTEST POSSIBLE
- 6. TRANSFORMERS WITHIN THE ELECTRICAL ROOM SHALL BE GROUNDED TO THE MAIN GROUND BUS
- 7. THIS DETAIL IS ONLY DIAGRAMMATIC

- 1. ELECTRICAL CONTRACTOR SHALL PROVIDE DUPLEX RECEPTACLE WITH EARS BROKEN TO CONTROL UPPER OUTLET VIA OCCUPANCY SENSOR AS REQUIRED BY CA TITLE 24 2019 SECTION 130.5.
- 2. CONTROLLED RECEPTACLE OUTLETS SHALL BE PROVIDED IN EACH PRIVATE OFFICE, OPEN OFFICE AREA, RECEPTION LOBBY, CONFERENCE ROOM, KITCHENETTE, IN OFFICE SPACES, AND COPY ROOMS AS REQUIRED BY CA TITLE 24 2019 SECTION 130.5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING AND ACCESSORIES FOR COMPLETE INSTALLATION TO COMPLY WITH THIS REQUIREMENT.
- 3. CONTROLLED RECEPTACLES SHALL BE PROVIDED WITH PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED
- 4. POWER PACK AND SENSOR BY SENSOR SWITCH, OR ACCEPTABLE



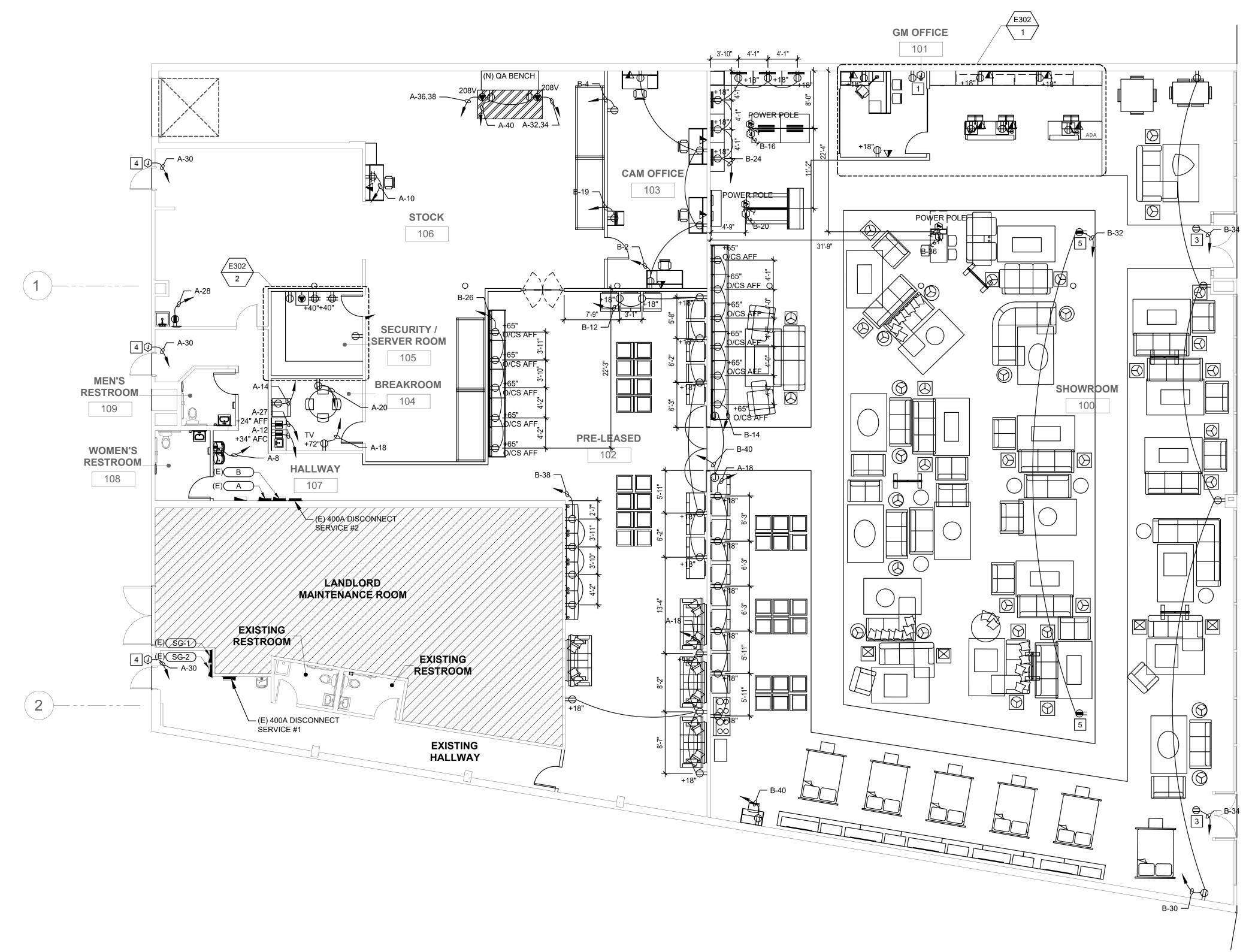




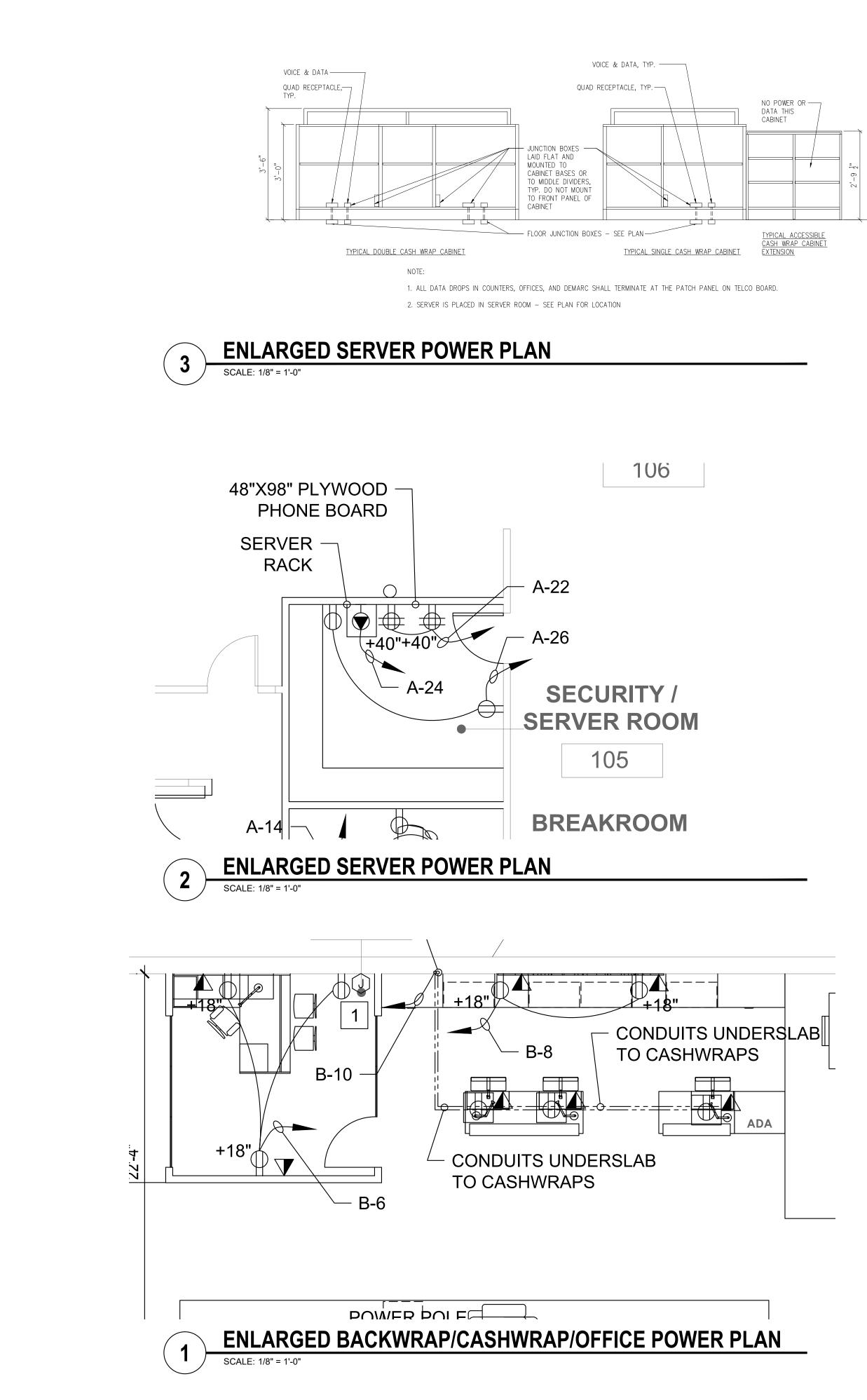
	LIGHTING GENERAL NOTES	D HEREIN			
A.	THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCHES.	DRAWINGS OR INFORMATION CONTAINED HEREIN		K[)
B.	IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY EXACT LOCATION OF ALL LIGHTING FIXTURES AND TYPE OF CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS PRIOR TO ANY WORK.	R INFORM	Kir	netic D	esign
	A JUNCTION BOX MUST BE PROVIDED WITH ALL EXIT LIGHTS CONNECTED TO MORE THAN ONE SET OF CONDUCTORS UNLESS THE EXIT LIGHT FIXTURE IS FURNISHED WITH AN APPROVED OUTLET BOX FOR THROUGH WIRING.	AWINGS O	Rancl 1. Vain. 951	Santa Margarita no Santa Margar 710.6334 Web. ail. info@kinetic	ita, CA 92688 kineticdesign.bu
	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE FINAL LOCATION OF LIGHTING FIXTURES IN MECHANICAL ELECTRICAL AND OTHER EQUIPMENT ROOMS WHERE CONDUITS, DUCT WORK, PIPING, ETC., ARE PRESENT TO AVOID CONFLICT AND ENABLE PROPER ILLUMINATION DISTRIBUTION.	FOR THESE DR	ETA		
•	CONTRACTOR SHALL VERIFY FIXTURES MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGHING.	BILITY FC	*	John C Schneider	*
	* - REFER TO SURFACE MOUNTED FIXTURE.	S NO LIA	A A	RC. 1215624	101
Э.	LUMINAIRES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS:	ASSUME	No.	RED ARC	
		DESIGN			
	 3a/3EB - FIXTURE CONNECTED TO CIRCUIT "3", CONTROL SWITCH "a" - WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3". 	KINETIC I			
	3NL/3EB - FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "#3". BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".				
	 REMOTE BACK-UP SOURCE (EM) 3a/3EM - ROUTED THROUGH A U.L. LISTED TRANSFER RELAY (LC & 	KINETIC			
	D # GR - 2001E/S) FOR SWITCHED CONTROL OR A U.L. LISTED TRANSFER SWITCH (BODINE #GTD SERIES DEVICE) FOR DIMMING CONTROLS . CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3".	PERMISSION FROM KINETIC DESIGN.			
	3NL/3EM - FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "#3".	TEN PERMIS	o. DA		SCRIPTION
	REFERENCE NOTES	WITH WRITTEN			
	PROVIDE J-BOX AND CURRENT LIMITER PER CALLOUT AS SHOWN. VERIFY COMPATIBILITY OF CURRENT LIMITER WITH TRACK SECTION.	USED WIT			
	PROVIDE WEATHERPROOF CONNECT TO SIGNAGE PER MANUFACTURER'S EQUIPMENTS. CONFIRM THAT NEW SIGN IS PROVIDED WITH INTEGRAL DISCONNECT SWITCH, IF NONE IS PROVIDED, ELECTRICAL CONTRACTOR SHALL PROVIDE WEATHERPROOF DISCONNECT AS REQUIRED. ROUTE SIGN CIRCUIT THROUGH NEW TIMECLOCK AND CONTACTOR. COORDINATE SCHEDULE WITH OWNER. E.C. TO PROVIDE PHOTOCELL FOR ADDITIONAL SIGN CONTROL. COORDINATE LOCATION IN	CAN ONLY BE US			
	FIELD AND WITH MANUFACTURER. E.C. TO CONNECT FOR CONTROL OF GM OFFICE LIGHTS.	HEREIN, C	IENT INF	ORMATION	5
	E.C. TO CONNECT FOR CONTROL OF PRE-LEASED AND SHOWROOM TRACK LIGHTS.	NED HE			39 39 402-3000
]	NEW FIXTURES TO BE CONNECTED TO EXISTING CIRCUITRY IN AREA AND CONNECTED TO NEW CONTROLS IN GM OFFICE.	I CONTA			2 4
	E.C. TO CONNECT FOR CONTROL OF PRE-LEASED AND SHOWROOM LIGHTS.	MATION			ITA, GA BER: (6
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POWER PLAN GENERAL NOTES	HEREIN.
1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET	
 24" MINIMUM. MULTI-WIRED (SHARED NEUTRAL) BRANCH CIRCUITS SHALL NOT BE INSTALLED. ALL 120 & 277 VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED INDIVIDUAL NEUTRAL CONDUCTOR. 	
3. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY GFCI CIRCUIT BREAKER(S) WHEN LOCATED WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVIING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED	GININU OUTUNIOUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
 TO ENSURE PROPER GFCI FUNCTION. 4. ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING TYPE RECEPTACLES THROUGHOUT BUILDING SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES, 	THESE DE OL
 NO EXCEPTIONS. 5. ALL RECEPTACLES IDENTIFIED AS WEATHERPROOF ON THE DRAWINGS SHALL BE WEATHER-RESISTANT, TAMPER-RESISTANT, GFCI TYPE AND EQUIPPED WITH ENCLOSURE THAT IS WEATHERPROOF (WP) WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED (WHILE "IN-USE"). AN OUTLET BOX HOOD SHALL BE LISTED 	JOHN C SCHNEIDER
AND SHALL BE IDENTIFIED AS "EXTRA DUTY". E.C. TO VERIFY EXACT LOCATION OF PANELBOARDS.	DESIGN ASSOMES N
REFERENCE NOTES	KINETIC DES
1 6" BELOW CEILING FOR CCTV.	DESIGN. KI
2 (E) EXISTING ELECTRICAL OUTLET TO REMAIN.	
3 RECEPTACLE FOR DOOR CHIME. COORDINATE WITH OWNER FOR EXACT LOCATION.	FROM KINETIC
4 DOOR BUZZER ON EXTERIOR OF BUILDING. COORDINATE WITH OWNER FOR EXACT LOCATION.	
5 PROVIDE ROOF TOP UNIT RECEPTACLE FOR SCENT MACHINE. VERIFY EXACT LOCATION IN FIELD PRIOR TO COMMENCEMENT OF WORK.	REVISIONS
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VOICE AND DATA CABLING NOTES FOR LOW VOLTAGE VENDOR

VOICE AND DATA CABLES

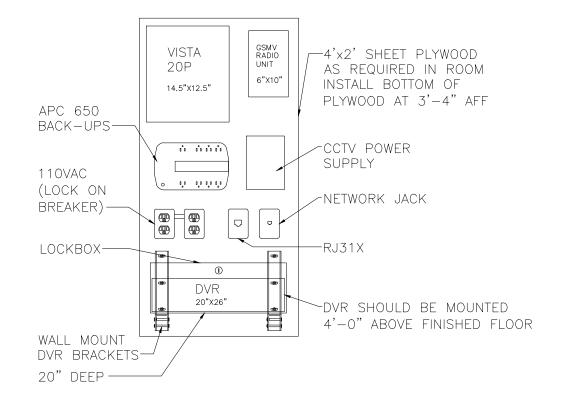
VUICE AND DATA CABLES		
1.CAM/GM OFFICE	6-VOICE	6-DATA
2. CLOSING OFFICE	2-VOICE	2-DATA
3.CASH ROOM	1-VOICE	1-DATA
4.NOOK (BEHIND CASHWRAP)	1-FAX	1-DATA
5.CASHWRAP	3-VOICE	5-DATA1-FAX 1-MODEM 2-CREDIT CARD
6.QA BENCH	1-VOICE	1-DATA
7.BACK DOOR	1-VOICE	
8.BREAK ROOM	1-VOICE	1-DATA
9.SHOW ROOM (SEE KEYED NOTE	16)	1-DATA
10. SECURITY BOARD (CORPORATE	STORES ONL	Y) 1–DATA (ALARM) 1–DATA (CAMERA)

NOTES:

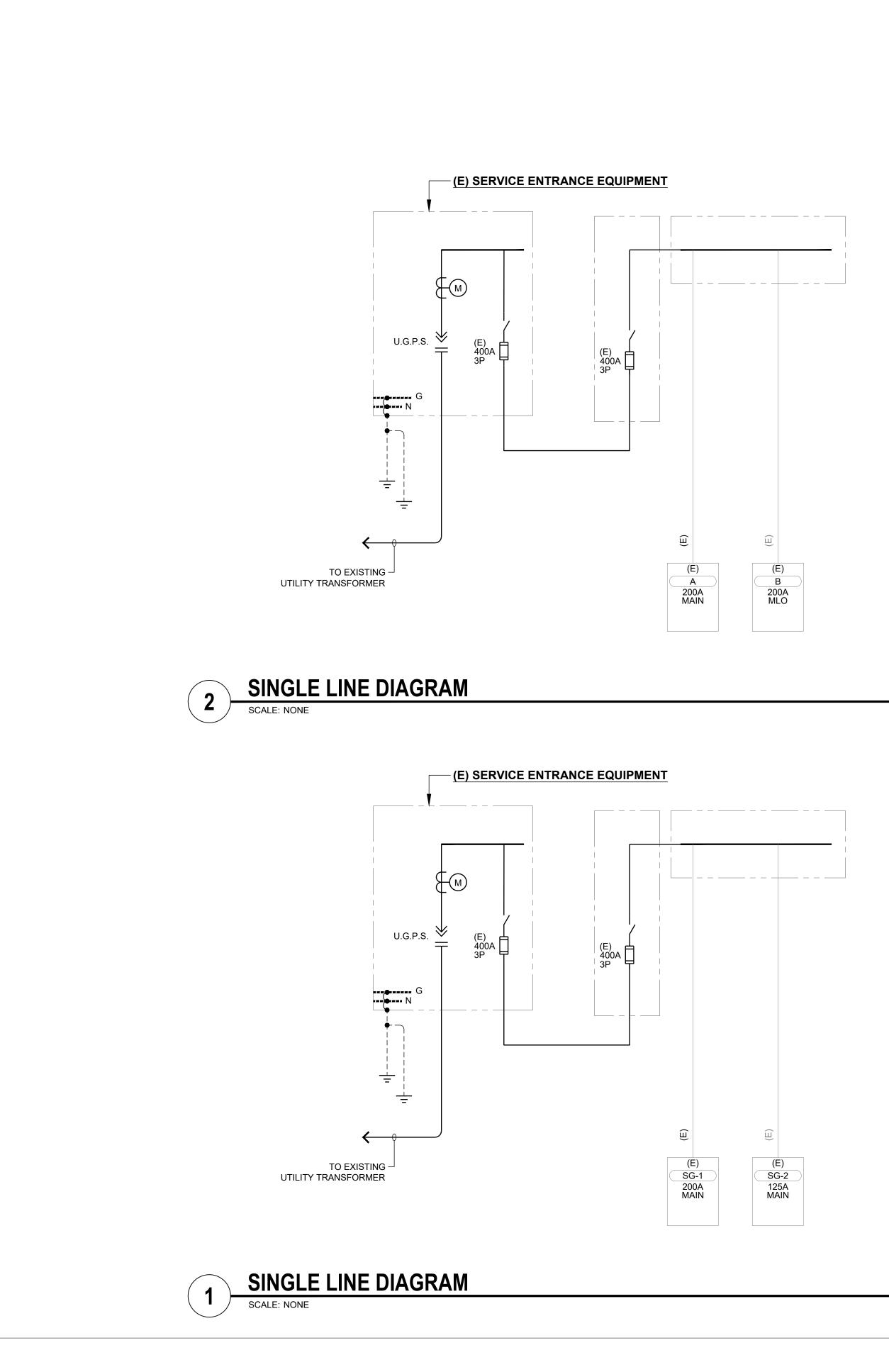
A.ALL DATA TERMINATES AT DEMARC BOARD (PHONE BOARD) ON 568B PATCH PANEL.

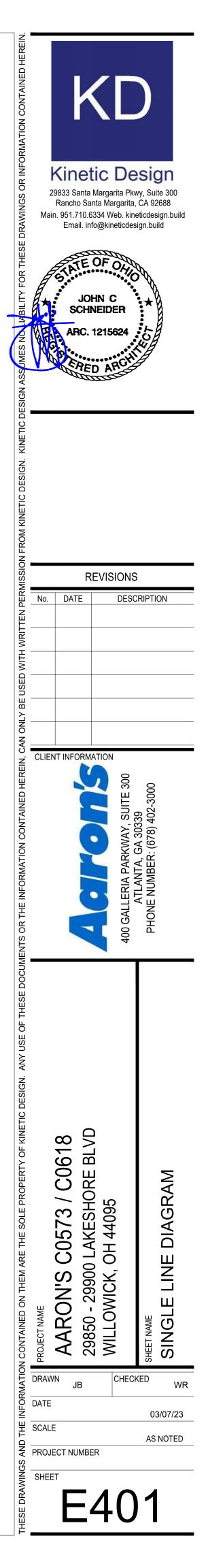
- B.ALL VOICE TERMINATES AT DEMARC BOARD (PHONE BOARD) ON 66 BLOCKS. C.ALL DATA @ EACH LOCATION TERMINATES ON 568B RJ45 JACKS. NO CRIP RJ45 PLUGS.
- D.INSTALL 8"W X 2'L SHELF INSTALLED @ BOTTOM OF DEMARC BOARD.
- E.ALL JACKS MUST HAVE MATCHING NUMBERS W/ PATCH PANEL.
- F.USE ONE COLOR JACK FOR RJ11 VOICEAND ONE COLOR FOR RJ45 DATA.
- G.CORPORATE STORES ONLY: SECURITY BOARD ALARM CABLE RJ31X TO LINE 4 AT DEMARC BOARD RETURN TO PORT 4 IN KSU.

H.CORPORATE STORES ONLY: SECURITY BOARD CAMERA RJ45 JACK TO DEMARC BOARD RJ45 JACK.



POWER PLAN GENERAL NOTES	HEREIN.
1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.	OR INFORMATION CONTAINED HEREIN Kinetic Design
2. MULTI-WIRED (SHARED NEUTRAL) BRANCH CIRCUITS SHALL NOT BE INSTALLED . ALL 120 & 277 VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED INDIVIDUAL NEUTRAL CONDUCTOR.	IN TION
3. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY GFCI CIRCUIT BREAKER(S) WHEN LOCATED WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVIING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.	Kinetic Design 29833 Santa Margarita Pkwy, Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build
 ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING TYPE RECEPTACLES THROUGHOUT BUILDING SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES, NO EXCEPTIONS. 	Rancho Santa Margarita PKwy, Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build
5. ALL RECEPTACLES IDENTIFIED AS WEATHERPROOF ON THE DRAWINGS SHALL BE WEATHER-RESISTANT, TAMPER-RESISTANT, GFCI TYPE AND EQUIPPED WITH ENCLOSURE THAT IS WEATHERPROOF (WP) WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED (WHILE "IN-USE"). AN OUTLET BOX HOOD SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY".	JOHN C SCHNEIDER
E.C. TO VERIFY EXACT LOCATION OF PANELBOARDS.	ERED ARCHING
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1 (D) DEMOLISH OUTLET.	C DESIGN.
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			MOUNTING: SURFACE NEMA 3R: NO FEED THRU: NO	D	OUBLE LUG: 200%: I/G BUS:	NO	VOLTS: PHASES: WIRE:		(ub-meter: Tion type:		MAIN: 200A BUS: 225A A.I.C.: EXISTING		
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GENERAL

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

SCOPE

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

INSPECTION OF SITE

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

PERMITS

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

CODE REQUIREMENTS

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

MATERIALS AND WORKMANSHIP

- A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHER-WISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COM-PLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, <u>DO NOT JUST ABANDON</u>.

CODES AND REGULATIONS

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

PROTECTION OF WORK AND PROPERTY

- A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PRO-TECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.
- B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSUR-ANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

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

COOPERATION

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

SUBSTITUTION OF MATERIALS

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

SHOP DRAWINGS

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

DRAWINGS AND SPECIFICATIONS

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

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

RESPONSIBILITY

- A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PRO-VIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.
- B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

GENERAL PROVISIONS

- 1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING.
- OBTAIN WATER, SEWER, GAS TAPS, AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID.
- COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.
- 2. GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK OF THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
- A. DRAWINGS: THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC., AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.
- B. COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

MATERIALS AND PERFORMANCE

- 1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE WITHIN FIVE (5) DAYS AFTER THE CONTRACT IS LET.
- 2. BACKFILLING: PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE A PROPER BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENINGS SO AS TO ELIMINATE SHIMMING AND VOID SPACES UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMPATIBLE" COUPLINGS OR EQUAL SHALL BE USED AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE. OTHER BACKFILL SHALL CONSIST OF 2-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A. REGULATIONS RELATING TO THIS TYPE OF WORK (FUGITIVE DUST).
- 4. PIPING INSTALLATION: CLEANOUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE BLUEPRINTS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING, THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF SOIL AND WASTE PIPES WITH LONG RADIUS FITTINGS OR WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS. CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH "Y" CONNECTIONS.
- WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDING LINES, EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES, AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILINGS AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB. NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS. UNIONS SHALL BE COPPER TYPE NIBCO #733 OR EQUAL.
- NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTINGS WITH PIPE THREADING TO THE SHOULDER OF THE FITTINGS. NO SLIP JOINTS OR COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.
- 5. NATURAL GAS PIPING: FOR ABOVE GROUND INSTALLATIONS, ALL FITTINGS TO BE JOINED WITH TEFLON TAPE SEAL OR OTHER SUITABLE SEAL AND MADE IN CONFORMANCE WITH THE BEST PRACTICES OF AGA AND NFPA 54. UNIONS SHALL BE CAST BLACK IRON AND INSTALLED IN A MANNER SUCH THAT NO STRESS WILL BE PLACED ON THE MALE-FEMALE SEALING SURFACES. PROPER ALIGNMENT WILL BE MADE AT TIME OF INSTALLATION. ALL JOINTS AND CONNECTIONS SHALL BE THOROUGHLY CLEANED OF OIL, THREAD CUTTINGS AND RESIDUALS TO ACCEPT ENAMEL PAINT. ROUGH OR SHARP EXPOSED THREAD SURFACES SHALL BE FILED SMOOTH. TESTING SHALL BE AS OUTLINED UNDER SECTION 15A, PARAGRAPH 11, TESTS.

6. WATER PIPE:

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE, SOLDER, 1200 DEG. F OR GREATER MELTING POINT.

- NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.
- A. MATERIALS UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER
- B. MATERIALS ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN.
- C. INSULATION: INSULATION FOR HOT AND COLD WATER PIPING SHALL BE 1/2" (1" ON 1ST 8 FT. FROM TANK) THICK ARMAFLEX UL LABELED OR FIBERGLASS 25 WITH ASJ/SSL FOIL/VINYL JACKET OR EQUAL. INSULATE ALL PIPING AND FITTINGS.

7. GAS PIPING

- A. GAS PIPING ABOVE GROUND: ASTM A53, SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. INSTALL MOISTURE TRAPS ON HVAC UNITS AND KITCHEN EQUIPMENT.
- GAS PIPING COMPOUND AT JOINTS: IN COMPLIANCE WITH NFPA BULLETIN #54 AND LOCAL APPLICABLE CODES AND SUITABLE FOR NATURAL GAS SERVICE
- 8. WASTE PIPING: INSTALL HORIZONTAL DRAIN AND WASTE PIPES WITH MIN. 1/8"/FT. SLOPE. MATERIALS: PVC SCH. 40, CAST IRON - HUB TYPE WITH NEOPRENE JOINTS -WITH STAINLESS STEEL CONNECTORS WHEN PVC IS NOT ALLOWED PER LOCAL CODE.

- 9. PIPE SLEEVES/ESCUTCHEONS: PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPES PASSING THROUGH WALLS, FLOORS, OR CEILINGS OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & CADWELL, #10, 40, 6A OR EQUIVALENT WITH SET-SCREWS. PROVIDE ESCUTCHEONS ON ALL WASTE LINES FROM PLUMBING FIXTURES, WHETHER THROUGH WALLS, FLOORS, AND WHETHER CONCEALED BEHIND COUNTERS OR EXPOSED. PIPE SLEEVES SHALL BE PROVIDED WHEN PIPES PENETRATE FOUNDATION AND SHALL BE 1" LARGER THAN PIPE, SEAL SLEEVE W/CAULKING.
- 10. PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SHOWN ON DRAWINGS WITH ALL ACCESSORIES AND TRIM AS LISTED. ALL FIXTURES SHALL BE PROTECTED THROUGH THE COURSE OF THE CONSTRUCTION. ANY FIXTURE DAMAGED SHALL BE REPLACED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- 11. CONNECTION TO OTHER FIXTURES: CONNECT BUILDING SERVICE PIPING, INCLUDING BUT NOT LIMITED TO WATER, DRAIN, AND GAS PIPES TO FOOD SERVICE EQUIPMENT AS INDICATED IN EQUIPMENT SPECIFICATIONS. PROVIDE BACKFLOW PROTECTION ON ICE MACHINES AND BEVERAGE EQUIPMENT SUPPLY CONNECTIONS. CONTRACTOR SHALL PROVIDE TRAPS, VALVES AND ACCESSORIES FOR A COMPLETE SYSTEM. 12. TESTS:
- A. DRAINAGE AND VENT PIPING DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THUS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT
- B. WATER PIPING THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY.
- C. GAS PIPING IN LIEU OF LOCAL REQUIREMENTS, GAS PIPING SHALL BE FILLED WITH COMPRESSED AIR TO 150 PSI AND HELD FOR A PERIOD OF FOUR (4) HOURS. EACH JOINT SHALL BE CHECKED BY LIQUID SOAP OR SPECIAL LIQUID CHEMICAL FOR LEAKS. NOTE: REMOVE ALL GAS VALVES AND PROTECT FROM DAMAGE BEFORE TESTING SYSTEM.
- 13. DISINFECTION OF POTABLE WATER SYSTEM: UPON COMPLETION OF INSTALLATION DISINFECT THE WATER SYSTEM BY FILLING IT WITH SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR NOT LESS THAN SIX (6) HOURS BEFORE FLUSHING THOROUGHLY AND RETURNING TO SERVICE. FURNISH CLEAN WATER SAMPLES TO THE LOCAL AUTHORITY FOR TESTING AFTER THE LINES HAVE BEEN DISINFECTED. THIS PROCEDURE TO BE IN ACCORDANCE WITH STATE PLUMBING CODE.
- 14. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.
- 15. GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTIVE WORK AND ALL DAMAGES CAUSED THEREBY WHICH MAY OCCUR DURING THE TERM OF THE AFOREMENTIONED GUARANTEE WILL BE REPAIRED AND/OR REPLACED AT NO EXPENSE TO THE OWNER.

16. OWNER'S MANUAL: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR EQUIPMENT HOUSINGS.

GENERAL PLUMBING NOTES

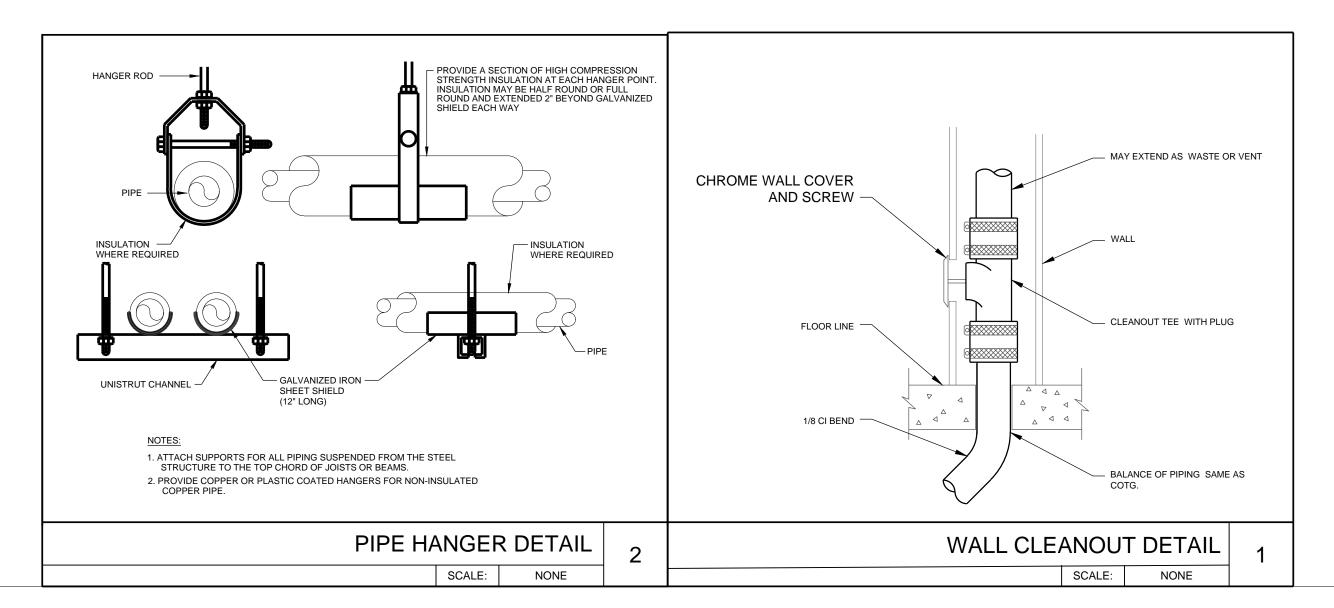
- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS, AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 2. FURNISH A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE OWNER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS PREPARED BY THE ENGINEER-OF-RECORD AFTER FINAL INSPECTION OF INSTALLED PLUMBING SYSTEMS.
- 3. FURNISH TO THE OWNER A COPY OF INSPECTION REPORTS AND APPROVAL IFICATES FROM THE LOCAL AND STATE INSPECTION
- 4. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- 5. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- 6. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- 7. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED AND INSTALLED AT EVERY FIXTURE SUPPLY AND GROUPING TO ALLOW FOR MAINTENANCE, VALVES ARE NOT ALL SHOWN ON PLAN. COORDINATE IN FIELD.
- 8. PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- 9. COORDINATE ALL WITH WITH OTHER TRADES AND CONTRACTORS.
- 10. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC, WHERE REQUIRED AND AS NOTED ON PLANS, COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- 11. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- 12. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES. 13. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE
- PIPING OVER ELECTRICAL PANELS. 14. PAINT ALL EXPOSED GAS PIPING USING RUST INHIBITOR PAINT. PAINT AND
- COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER. 15. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
- 16. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING. ALL OTHER COLD AND HOT WATER LINES SHALL BE INSULATED WITH MINIMUM OF 3/4" FIBERGLASS INSULATION.
- 17. PROVIDE SHIELDED ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON AT SLAB ON GRADE. SEE DIVISION 15 SPECIFICATION SECTION "DRAINAGE AND VENT SYSTEMS" FOR MORE INFORMATION.
- 18. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE AND PROVIDED ON ALL FIXTURES..
- 19. PROVIDE CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
- 20.AIR PIPING MUST BE BLED THOROUGHLY PRIOR TO CONNECTING TO TOOLS OR EQUIPMENT

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE/CONNECTIONS

MARK	FIXTURE			FIXTURE ROU	GH-IN						
		W	V	CW	HW	DESCRIPTION					
<u>S-1</u>	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	ELKAY GECR-2521L4 WITH LK18 GRID STRAINER, DELTA 100-WF FAUCET (0.5 GPM), OR EQUAL.					
<u>MS-1</u>	MOP SINK	3"	2"	3/4"	3/4"	GSW SERVICE SINK MODEL SE-2424FM, FLOOR MOUNTED, STAINLESS STEEL, W/ GSW SERVICE FAUCET MODEL AA-840, WALL MOUNTED, PROVIDE BACK FLOW DEVICE, OR APPROVED EQUAL.					
<u>WB-1</u>	WASHING BOX	3"	2"	3/4"	3/4"	LSP PRODUCTS GROUP, MODEL #OB-207 WASHING MACHINE OUTLET RECESSED BOX WITH SIOUX CHIEF "MINI-RESTER" HAMMER ARRESTOR (FOR HOT AND COLD WATER SUPPLY) OR APPROVED EQUAL.					
wco	WALL CLEANOUT	SEE PLANS	-	-	-	ZURN WALL CLEANOUT MODEL Z1441-VP, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT, VANDAL PROOF SCREWS, COORDINATE FINAL LOCATIONS AND FINISH WITH ARCHITECTURAL.					
<u>MV-1</u>	MIXING VALVE	-	-	-	-	MIXING VALVE WATTS - MODEL #LFMMV-M1, SET OUTLET TEMPERATURE AT 105°F.					
	NOTES: 1. CONTRACTOR TO VERIFY THAT ALL PLUMBING FIXTURES ARE FOR INSTALLATION ON EXPOSED SLAB. 2. SEE ARCHITECT PLANS SPECIFICATIONS FOR ADDITIONAL INFORMATION.										

Ł	GAS COCK							
5 A	RISER BALL VALVE / SHUT OFF VALVE							
	GATE VALVE							
-¥	THREE-WAY SOLENOID VALVE							
_ <u>_</u>	SOLENOID VALVE							
PRV	PRESSURE REDUCING VALVE							
	SWING CHECK VALVE / BACK WATER VALVE							
$\mathbf{\Theta}$	POINT OF CONNECTION							
- <u></u>	CIRCUIT SETTER BALANCE VALVE							
GCO	GRADE CLEAN OUT							
EWF	ELECTRIC WATER FOUNTAIN							
Ъ	BALANCE VALVE							
	BALL VALVE							
	PRESSURE REGULATING VALVE (PRV) (50 PSI)							
CO	CLEAN OUT							
AFF	ABOVE FINISHED FLOOR							
	UNION							
	PIPE TURNING UP CHECK VALVE							
VTR	VENT THROUGH ROOF							
	SANITARY VENT PIPING							
-G₩-	GREASE WASTE PIPING							
-140°-	140° WATER PIPING							
-FW-	FILTERED WATER PIPING							
- W —	SANITARY WASTE PIPING							
	HOT WATER RECIRCULATING PIPING							
	HOT WATER PIPING (140°)							
	COLD WATER PIPING							
-CD	CONDENSATE DRAIN PIPING							

PLUMBING SYMBOLS LEGEND





APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE CODES WHETHER INDICATED HEREIN OR NOT.

- INTERNATIONAL BUILDING CODE 2015 (IBC 2015) - INTERNATIONAL MECHANICAL CODE 2015 (IMC 2015)
- INTERNATIONAL PLUMBING CODE 2015 (IPC 2015)
- INTERNATIONAL FIRE CODE 2015 (IFC 2015)
- NATIONAL ELECTRICAL CODE 2017 OF OHIO - INTERNATIONAL ENERGY CONSERVATION CODE 2018 (IECC 2018)
- ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2009 OF OHIO
- NATIONAL FIRE ALARM AND SIGNALING CODE 2016 OF OHIO - STANDARD FOR HIGH CHALLENGE FIRE WALLS, AND FIRE BARRIER WALLS 2015 OF OHIO - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE OF OHIO

SHEET INDEX

No. PLUMBING

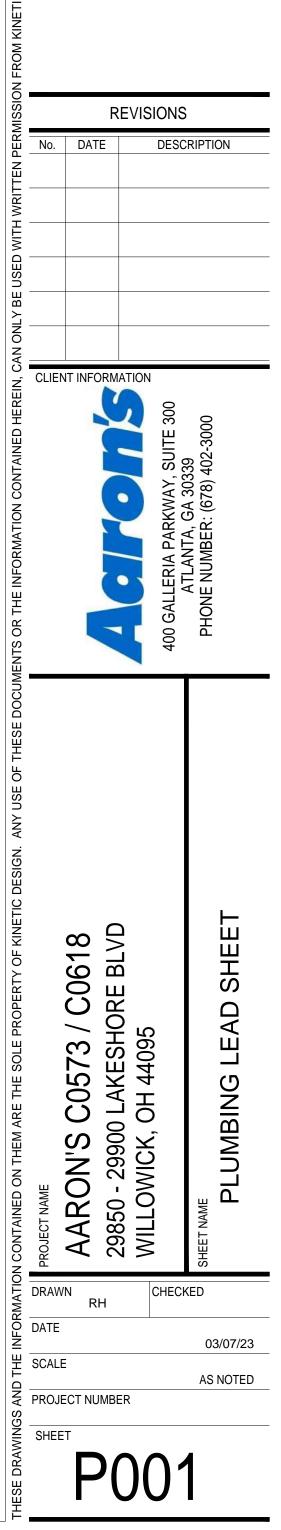
P001

P200

MP100

PLUMBING LEAD SHEET BUILDING SITE PLAN PLUMBING FLOOR PLAN

SHEET NAME

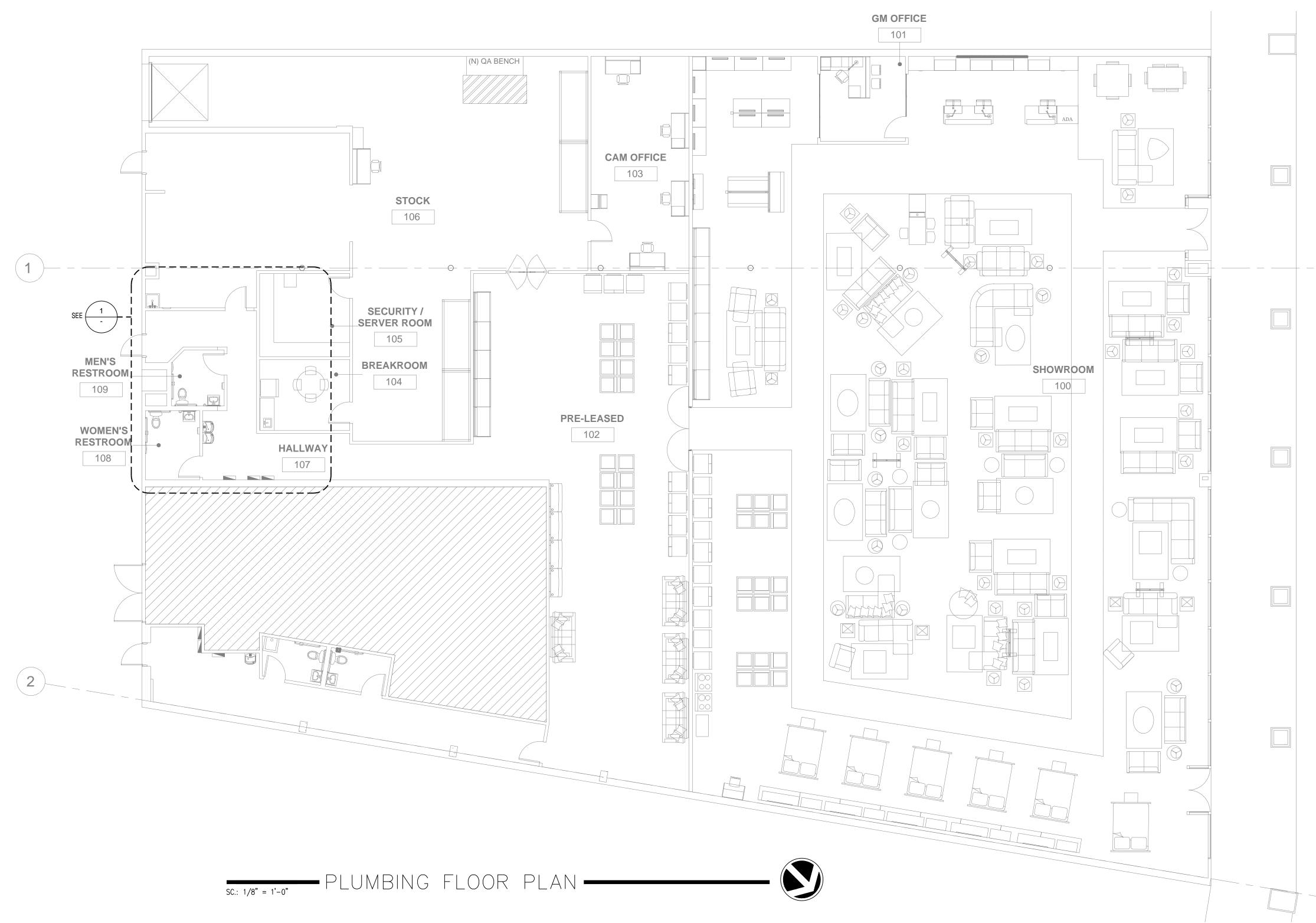




SHEET KEYNOTES

1 MECHANICAL AND PLUMBING SCOPE OF WORK.

2 SEE SHEETS M200 AND P200 FOR IMPROVEMENT PLAN.



SC.: 1/8" = 1'-0"	FLUNDING	LOON	

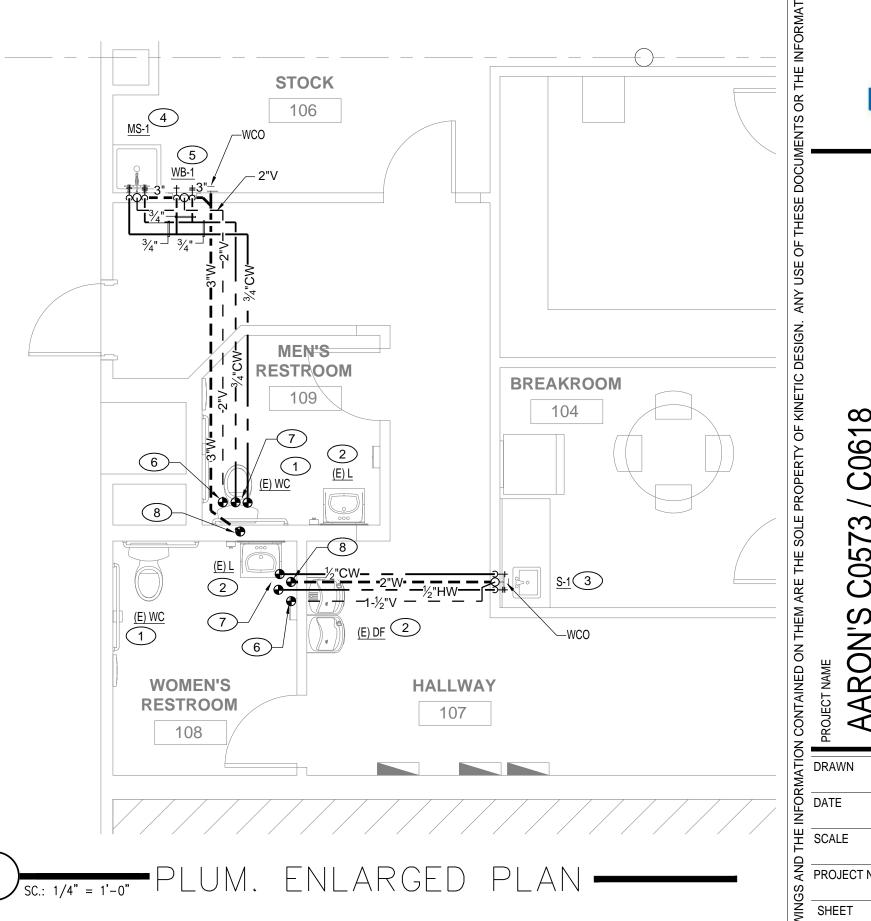
PLUMBING FIXTURE CACULATION												
	Each Total											
Fixture Type	QTY	W	CW(100%)	HW	W	CW(100%)	HW(75%)					
(E) Water Closet	2	4.0	2.5	0.000	8.0	5.0	0.000					
(E) Lavatory	2	1.0	1.0	0.750	2.0	2.0	1.500					
Sink	1	2.0	1.5	1.125	2.0	1.5	1.125					
Mop Sink	1	3.0	3.0	2.250	3.0	3.0	2.250					
Hose Bibb	1	0.0	2.5	0.000	0.0	2.5	0.000					
Hose Bibb (additional)	1	0.0	1.5	0.000	0.0	1.5	0.000					
Washing Box	1	3.0	4.0	3.000	3.0	4.0	3.000					
(E)Drinking Fountain	1	2.0	1.0	0.000	2.0	1.0	0.000					
Total		0.0	1.0	0.000	0.0	0.0	0.000					
	10				20.0	20.5	7.875					
						15 GPM						

GENERAL NOTES

- A PRIOR TO DETAILING & INSTALLING PLUMBING AND FIRE PROTECTION PIPING COORDINATE EXACT ROUTING AND ELEVATIONS WITH MECHANICAL, ELECTRICAL AND FIRE SPRINKLER CONTRACTORS. PROVIDE WRITTEN CONFIRMATION THAT THIS COORDINATION HAS BEEN IMPLEMENTED PRIOR TO PROCEEDING WITH INSTALLATION OF PIPING.
- B PRIOR TO INSTALLATION OF SEWER AND WATER PIPING BELOW GRADE COORDINATE EXACT LOCATIONS AND DEPTHS OF BURIAL WITH CIVIL AND FOUNDATION DRAWINGS AND CORRESPONDING ENGINEERS.
- C ALL PLUMBING FIXTURES SHALL BE WATER CONSERVATION TYPE AS MANDATED BY LOCAL BUILDING DEPARTMENT.
- D ALL PLUMBING FIXTURES SHALL HAVE AN ANGLED SHUT OFF VALVE.
- E ALL PLUMBING FIXTURES SHALL HAVE A TRAP INSTALLED AND SHALL BE PROPERLY VENTED IN ORDER TO MAINTAIN THE TRAP SEAL.
- F ALL PLUMBING FLOOR SINKS, FLOOR DRAINS, MOP SINKS, AND HUB DRAINS SHALL HAVE A TRAP PRIMER INSTALLED AND SHALL BE PROPERLY VENTED IN ORDER TO MAINTAIN THE TRAP SEAL.
- G CONTROLS FOR SERVICE WATER HEATING SYSTEMS SHALL LIMIT THE OUTLET TEMPERATURE AT PUBLIC LAVATORIES TO 100°F (CEC 110.3(c)3). THE WATER HEATER THERMOSTAT MAY NOT BE USED FOR COMPLIANCE WITH THIS CODE SECTION (CPC 421.2).
- H FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LB-FT.
- I HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED SO AS TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
- J ALL WATER CLOSETS DESIGNATED AS HANDICAP SHALL BE INSTALLED SUCH THAT THE ACTUATOR IS OPERABLE FROM THE WIDE SIDE OF THE WATER CLOSET.
- K ANY PENETRATIONS TO THE FIRE BARRIER WILL REQUIRE FIRE-SMOKE DAMPER FOR DUCTING AND FIRE CHALKING FOR PIPING. FIELD VERIFY.

KEYNOTES

- (1) EXISTING FIXTURE/S AND PIPING TO REMAIN. FIELD VERIFY.
- 2 EXISTING FIXTURE/S TO RELOCATED. EXTENDED PIPES AS REQUIRE. FILLED VERIFY.
- (3) INSTALL NEW SINK, CONNECT 1/2"CW, 1/2"HW, 2" WASTE AND 1-1/2" VENT. SEE SHEET P001 FOR MORE INFORMATION.
- (4) INSTALL NEW MOP SINK. CONNECT 3/4"CW, 3/4" HW, 3" WASTE AND 2" VENT. SEE SHEET P001 FOR MORE INFORMATION.
- 5 INSTALL NEW WASHING BOX. CONNECT 3/4"CW, 3/4" HW, 3" WASTE AND 2" VENT. SEE SHEET P001 FOR MORE INFORMATION.
- 6 POINT OF CONNECTION FOR VENT LINE. CONTRACTOR TO VERIFY IN THE FIELD EXACT LOCATION PRIOR TO START OF WORK.
- 7 POINT OF CONNECTION FOR COLD AND HOT WATER LINES. CONTRACTOR TO VERIFY IN THE FIELD EXACT LOCATION PRIOR TO START OF WORK.
- 8 POINT OF CONNECTION FOR WASTE LINE. CONTRACTOR TO VERIFY IN THE FIELD EXACT LOCATION PRIOR TO START OF WORK.



Kinetic Design 29833 Santa Margarita Pkwy, Suite 300 Rancho Santa Margarita, CA 92688 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build JOHN C SCHNEIDER ARC. 1215624

