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Contract Administration Department
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DAVID L. TIPPIN WATER TREATMENT FACILITY RESEARCH LAB FACILITY 100% CONSTRUCTION DOCUMENTS

CONTRACT NO: 16-D-63809

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ARCHITECTURAL

- COVER
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- A5.1 DETAILS
- A6.1 INTERIOR ELEVATIONS AND DETAILS
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PLUMBING

- P001 PLUMBING GENERAL NOTES, LEGEND AND FIXTURE SCHEDULES
- P101 PLUMBING PLANS, SANITARY, DOMESTIC AND DEIONIZED WATER ISOMETRICS

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- E101 ELECTRICAL PLANS AND SCHEDULES
- E201 ELECTRICAL SCHEDULES

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CITY OF TAMPA WATER
DEPARTMENT
306 E JACKSON ST. 5E
TAMPA, FL 33602

COT CONTRACT: 16-D-63809

DAVID L. TIPPIN WATER TREATMENT FACILITY
RESEARCH LAB FACILITY

PROJECT #: 1621-00

100% CD
SUBMITTAL

08.29.17



PROJECT ADDRESS:
7125 NORTH 30TH STREET
TAMPA, FL 33610

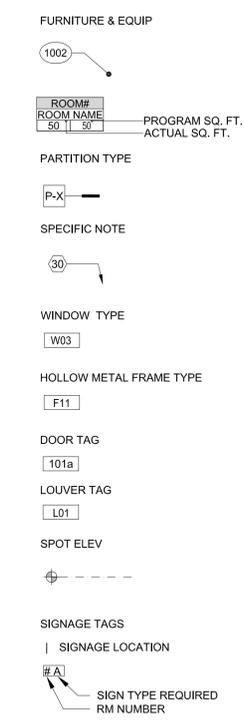
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SECTION 29
TOWNSHIP 28 SOUTH
RANGE 19 E

WILDERARCHITECTURE, INC.

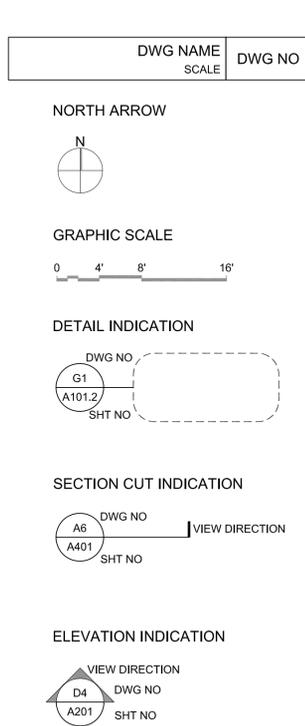
@	AT	MAINT	MAINTENANCE
AB	ANCHOR BOLT	MAS	MASONRY
AC	AIR CONDITION, ER. ING	MAX	MAXIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MECH	MECHANICAL
ADJ	ADJACENT	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
ALUM	ALUMINUM	MIN	MINIMUM
APC	ACOUSTIC PANEL CEILING	MISC	MISCELLANEOUS
APPROX	APPROXIMATELY	MO	MASONRY OPENING
ARCH	ARCHITECT	MTD	MOUNTED
		MVCJ	MASONRY VERTICAL CONTROL JOINT
BLDG(S)	BUILDING(S)	NA	NOT APPLICABLE
BLK	BLOCK	NIC	NOT IN CONTRACT
BLKG	BLOCKING	#, NO	NUMBER
BOS	BOTTOM OF STEEL	NTS	NOT TO SCALE
BOTT	BOTTOM		
BRG	BEARING	OC	ON CENTER
BUR	BUILT-UP ROOFING	OD	OUTSIDE DIAMETER
		OH	OVERHEAD
C1	CONTRACTOR INSTALLED	OI	OWNER INSTALLED
CJ	CONTROL JOINT	OP	OWNER PROVIDED
CL	CENTER LINE	OPNG	OPENING
CLF	CHAIN LINK FENCE	OPP	OPPOSITE
CLG	CEILING	OPH	OPPOSITE HAND
CEM	CEMENT		
CP	CONTRACTOR PROVIDED	PERIM	PERIMETER
CR	CLASSROOM	PLAS	PLASTER
CT	CERAMIC TILE	PL	PROPERTY LINE
CM	CONSTRUCTION MANAGER	PNT	PAIN (PAINTED FINISH)
CMU	CONCRETE MASONRY UNIT	PROJ	PROJECT
COL	COLUMN	PT	PRESSURE TREATED
CONC	CONCRETE	PTN	PARTITION
CONF	CONFERENCE	PVC	POLYVINYL CHLORIDE
CONST	CONSTRUCTION	PLWD	PLYWOOD
CONT	CONTINUOUS	PP	PUSH PLATE
CONTR	CONTRACTOR		
CPT	CARPET	QT	QUARRY TILE
		R/W	RIGHT OF WAY
D	DEEP DEPTH	RCP	REFLECTED CEILING PLAN
DEMO	DEMOLITION	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	REBAR	REINFORCING BAR
DIAM	DIAMETER	REINF	REINFORCEMENT/ING
DIM	DIMENSION	REQ'D	REQUIRED
DOCS	DOCUMENTS	RM	ROOM
DN	DOWN	RO	ROUGH OPENING
DS	DOWNSPOUT	RWB	RESILIENT WALL BASE
DTL	DETAIL	RWL	RAIN WATER LEADER
DWG	DRAWING		
		SC	SMOKE COMPARTMENT
EA	EACH	SHT	SHEET
EHPA	ENHANCED HURRICANE PROTECTION AREA	SF	SQUARE FOOT
EJ	EXPANSION JOINT	SIM	SIMILAR
ELEC	ELECTRICAL	SOG	SLAB ON GRADE
ELEV	ELEVATION	SPECS	SPECIFICATIONS
EQ	EQUAL	SQ	SQUARE
EQUIP	EQUIPMENT	SS	STAINLESS STEEL
ETC	ETCETERA	STC	SOUND TRANSMISSION CLASS (RATING)
ETR	EXISTING TO REMAIN	STD	STANDARD
EWC	ELECTRIC WATER COOLER	STL	STEEL
EW	ELECTRIC WATER HEATER	STOR	STORAGE
EXIST	EXISTING	STRL	STRUCTURAL
EXP	EXPOSED	SUSP	SUSPEND / ED / SION
EXT	EXTERIOR		
		T&B	TOP AND BOTTOM
FBC	FLORIDA BUILDING CODE	T&G	TONGUE AND GROOVE
FD	FLOOR DRAIN	TEL	TELEPHONE
FE	FIRE EXTINGUISHER	TEMP	TEMPORARY
FFPC	FLORIDA FIRE PREVENTION CODE	TERR	TERRAZZO
FIN	FINISH	TOM	TOP OF MASONRY
FKT	FIXTURE	TOS	TOP OF STEEL
FL	FLOOR	TOT	TOTAL
FLUOR	FLUORESCENT	T/S	TOP OF SLAB
FT	FEET	TYP	TYPICAL (UNO)
FTG	FOOTING		
FURN	FURNITURE	UNO	UNLESS NOTED OTHERWISE
		V	VINYL
GA	GAUGE	VCT	VINYL COMPOSITION TILE
GALV	GALVANIZED	VERT	VERTICAL
GC	GENERAL CONTRACTOR	VEST	VESTIBULE
GL	GLASS, GLAZING	VIF	VERIFY IN FIELD
GWB	GYPSTUM WALLBOARD	VP	VENER PLASTER
		VSF	VINYL SHEET FLOORING
HB	HOSE BIBB	VT	VINYL TILE
HC	HANDICAPPED	VTR	VENT TO ROOF
HT	HEIGHT, HIGH		
HDW	HARDWARE	W	WIDE, WIDTH
HM	HOLLOW METAL	W/	WITH
HMF	HOLLOW METAL FRAME	WP	WEATHERPROOF
HORIZ	HORIZONTAL	WWF	WELDED WIRE FABRIC
		WVP	WOOD VENEER PANELING

ARCHITECTURAL ABBREVIATIONS AND ACRONYMS D12

DRAWING TAGS



DRAWING IDENTIFICATION



ARCHITECTURAL DRAWING SYMBOLS D8

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DRAWING INDEX G1



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VICINITY MAP A1

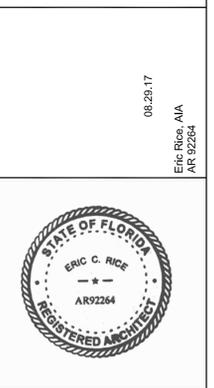
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CITY OF TAMPA WATER DEPARTMENT
306 E JACKSON ST. 5E
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COT CONTRACT: 16-D-63809

DAVID L. TIPPIN WATER TREATMENT FACILITY
RESEARCH LAB FACILITY

PROJECT #: 1621-00	
Distribution	Date
60% CD SET	04.05.17
90% CD SUBMITTAL	05.16.17
100% CD CHECK SET	07.06.17
100% CD FINAL DRAFT	08.28.17
100% CD SUBMITTAL	08.29.17

GENERAL INFORMATION

A0.0

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	AREA	FINISH							REMARKS	
			FLOOR	BASE	WALLS	CEILING					
					SOUTH	EAST	WEST	NORTH	FINISH	HEIGHT	
106	LAB	323 SF	CRF	N/A	PNT	PNT	PNT	PNT	ETR	ETR	1, 2, 3, 4
109	CORRIDOR	30 SF	GPT	ETR	ETR	ETR	ETR	ETR	ETR	ETR	5

FINISH SCHEDULE ABBREVIATIONS

ETR	EXIST TO REMAIN
PNT	PAINTED GYPSUM WALLBOARD
CRF	CHEMICAL RESISTANT FLOORING
GPT	GLAZED PANEL TILE

REMARKS

- NEW PAINTED GWB TO MATCH EXISTING.
- CHEMICAL RESISTANT LAB FLOORING WITH INTEGRAL BASE. SEE SPECIFICATION SECTION 09 6500 - CHEMICAL RESISTANT FLOORING. CHEMICAL RESISTANT FLOOR MATERIAL IS TO INCORPORATE AN INTEGRAL FLASH COVE WALL BASE AT THE VERTICAL WALL SURFACES AND CASEWORK UP TO THE 4" ELEVATION.
- EXISTING CEILING TO REMAIN.
- PROVIDE A CHEMICAL RESISTANT THRESHOLD 1/4" HIGH ABOVE FINISHED ADJACENT CHEMICAL RESISTANT FLOOR SYSTEM. THRESHOLD TO BE OF SAME MATERIAL AS CHEMICAL RESISTANT FLOORING, OR PER MANUFACTURER'S STANDARD DETAIL.
- INSTALL NEW TILE TO MATCH EXISTING REMOVED TO FACILITATE SANITARY TIE-IN.

EQUIPMENT SCHEDULE

NUMBER	DESCRIPTION	CONTRACT STATUS				MOUNT	REMARKS
		CP	OP	CI	OI		
01	PORTABLE WORKBENCH		•			FLOOR	30" D X 60" L X ADJUSTABLE 30" - 37.5" WORK HEIGHT -PHENOLIC TOPS - BLACK WITH DRIP GROOVE (4 SIDES), MODEL #8830 -#0006 CARDINAL WHITE - COAT FINISH -PULL-OUT SHELF (RIGHT SIDE), MODEL #N3142 (KIT-09A) -DRAWER CASE (LEFT SIDE), MODEL #N3115 (KIT-09A) -CASTER 3" SWIVEL W/SIDE BRAKE, MODEL #2003-3" -RUBBER BUMPER BLACK #4724-01, MODEL #3140-B -MOBILE PLATE 12D, MODEL #4250 -SHELF 12D X 60L, MODEL #N3021 -SWAYBRACE 4500 - 60L, MODEL #4565 -LEG MBL 4500-30D X 30/37WH (29D X 22.5CH) W/BASE (LEFT), MODEL #4545L-01 -LEG MBL 4500-30D X 30/37WH (29D X 22.5CH) W/BASE (RIGHT), MODEL #4545R-01 -FRAME 4500-30D X 60L, MODEL #4515 -PORTABLE WORKBENCH TO BE ORDERED AS "FULLY ASSEMBLED"
02	STIRRER		•			COUNTERTOP	
03	STIRRING HOT PLATE		•			COUNTERTOP	
04	CHEMICAL FUME HOOD		•			COUNTERTOP	EQUIPMENT MOUNTED ON TWO (2) ACID STORAGE CABINETS. SEE BELOW. SEE SPECIFICATION SECTION 11 6100 - LABORATORY FUME HOODS UNIFLOW SE AIRESTREAM SERIES FOR MANUFACTURER, MODEL AND . FUME HOOD TO INCLUDE DEDICATED FIRE EXTINGUISHER, MODEL TO BE SELECTED BY OWNER.
05	PERISTALTIC PUMP		•			COUNTERTOP	
06	COMPACT OVEN		•			COUNTERTOP	
07	JAR TESTER		•			COUNTERTOP	
08	DRYING RACK		•			WALL	MANU: KEWAUNEE MODEL: #X-020017
09	HANDHELD EYEWASH		•			COUNTERTOP	MOUNTED NEAR SINK
10	ACID STORAGE CABINET		•			FLOOR	MOUNTED BELOW FUME HOOD (SUPPORTS FUME HOOD). MANU. - HEMCO, MODEL - #15300
11	ADJUSTABLE DESK CHAIR		•				CONTRACTOR TO CONTACT COT VENDOR FOR APPROVED FURNITURE MAKE AND MODEL.
12	ADJUSTABLE STOOL		•				CONTRACTOR TO CONTACT COT VENDOR FOR APPROVED FURNITURE MAKE AND MODEL.
13	GAS CYLINDER		•			FLOOR	MOUNTED ON GAS CYLINDER BRACKET. SEE SPECIFIC NOTES.
14	OZONE GENERATOR		•			FLOOR	MOUNTED IN CHEMICAL FUME HOOD

GENERAL NOTES

- DIMENSIONS ARE TAKEN @ THE FOLLOWING LOCATIONS:
EXISTING PARTITIONS/WALLS: NEW FINISHED FACE
NEW PARTITIONS: CENTERLINE UNLESS OTHERWISE NOTED
FIELD VERIFY DIMENSIONS (INCLUDING WHOLE STRINGS) TAKEN FROM AND BETWEEN EXISTING LOCATIONS. NOTIFY OWNER AND ARCHITECT OF ANY DEVIATIONS.
- CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL TRADES WITH EXISTING STRUCTURAL SYSTEMS AND NEW ARCHITECTURAL SYSTEMS.
- REINSTALL ALL EXISTING, STORED WALL MOUNTED ITEMS (SIGNAGE, ARTWORK, EQUIPMENT, ETC.) REMOVED DURING SELECTIVE DEMOLITION. COORDINATE NEW INSTALLED LOCATION WITH OWNER. ONLY REINSTALL ROOM SIGNAGE THAT IS STILL APPLICABLE TO ROOM USE. ALL NEW ROOMS TO RECEIVE NEW ROOM SIGNAGE AS SCHEDULED. REPAIR EXISTING GYPSUM WALL BOARD FINISH WHERE RESILIENT BASE HAS BEEN REMOVED. REPAIR PRIOR TO REINSTALLATION OF NEW BASE. PREPARE AND PAINT ALL EXISTING PARTITION SURFACES.
- CONTRACTOR TO REINSTALL ALL REMOVED FURNITURE AND EQUIPMENT AT LOCATIONS PER OWNER'S DIRECTION.
- CONFIRM AND COORDINATE CORE DRILLING OF EXISTING CONCRETE SLAB, FOR MEP SYSTEMS, WITH EXISTING CONCRETE STRUCTURE BELOW.

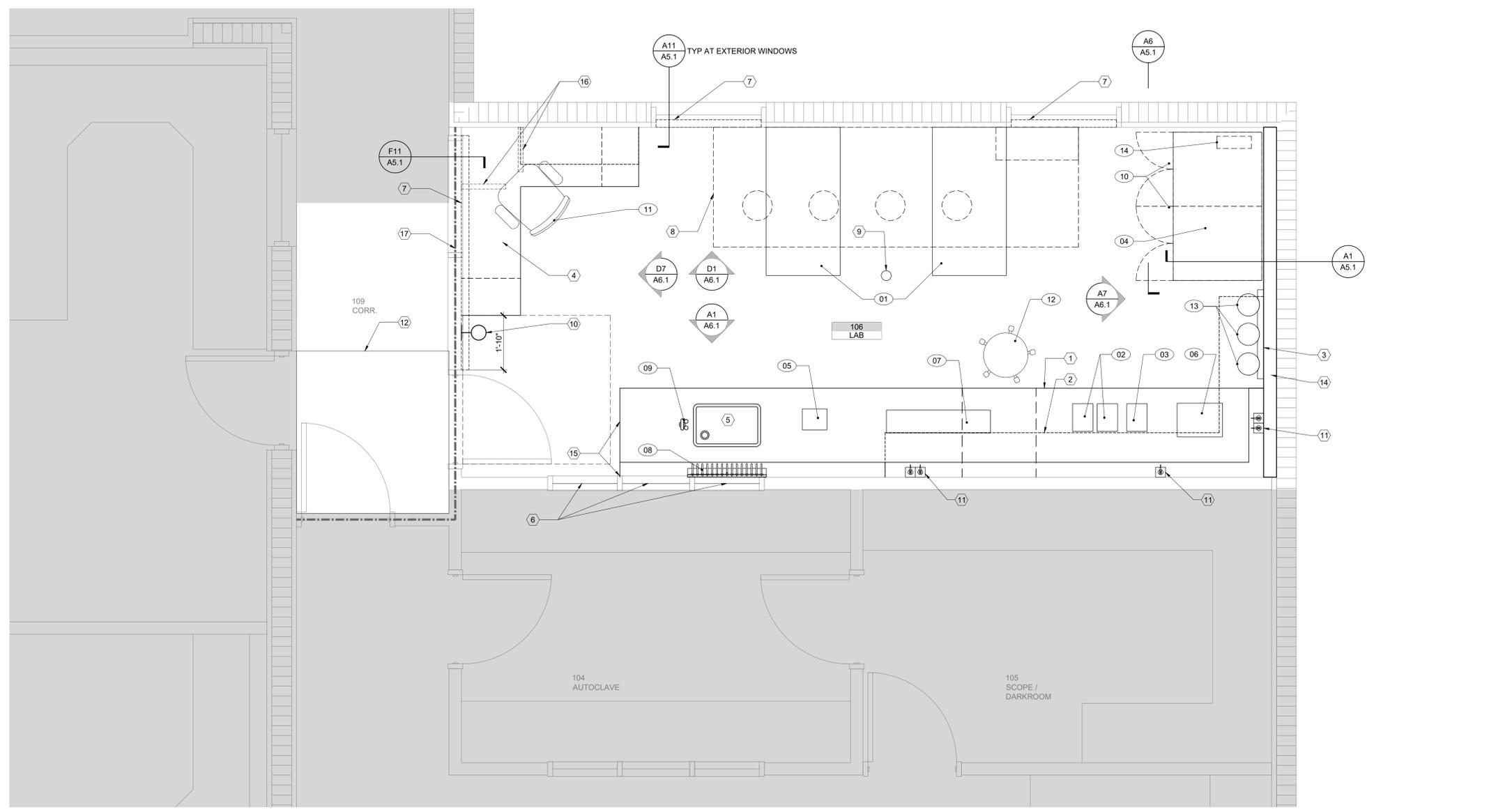
SCHEDULES H3

SPECIFIC NOTES

- NEW LAB CASEWORK. COUNTER TOPS 30" DEEP. SEE SHEETS A6.1, A6.2, AND A6.3 FOR ELEVATIONS AND DETAILS.
- NEW LAB CASEWORK. WALL SHELVING ABOVE. SEE SHEETS A6.1, A6.2, AND A6.3 FOR ELEVATIONS AND DETAILS.
- GAS CYLINDER BRACKET. MOUNTING HEIGHT AS REQUIRED BY MANUFACTURER FOR STANDARD 300 GAS CYLINDER.
- NEW CASEWORK WORKSTATION. SEE SHEETS A6.1, A6.2, AND A6.3 FOR ELEVATIONS AND DETAILS.
- KEMRESIN EPOXY LIPPED DROP-IN SINK MODEL #1005-DI-BK, OR EQUAL. MOLDED IN ONE PIECE WITH INSIDE CORNERS COVERED AND BOTTOM DISHED TO DRAIN OUTLET. SINK TO BE MOUNTED BELOW COUNTER SURFACE.
- TRANSLUCENT WINDOW FILM TO BE INSTALLED AT THIS WINDOW, FULL GLAZING.
- WINDOW SHADES (MECHO SHADE INCLUDING VALANCE, MODEL - MECHO SLIMLINE) TO BE INSTALLED AT THIS WINDOW. COLOR TO BE SELECTED BY OWNER.
- OUTLINE OF EQUIPMENT DEPICTED FOR POWER AND DATA LOCATION PURPOSES ONLY.
- FLOOR DRAIN. REMOVE CONCRETE SLAB AS NECESSARY TO FACILITATE DRAIN TIE-IN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. SEE DEMOLITION DRAWING SHEET G3 / A1.2 FOR SELECTIVE DEMOLITION OF SLAB.
- BRACKET MOUNTED FIRE EXTINGUISHER. MANUFACTURER: LARSEN, MODEL# MP20 WITH STANDARD BRACKET MODEL# 577.
- GAS VALVE. TYP.
- NEW FLOORING TO MATCH EXISTING ADJACENT AT CORRIDOR.
- NOT USED.
- FURRED OUT 5/8" GYPSUM WALLBOARD ON 2" METAL FRAMING. SEE DETAIL A1 / A5.1.
- ALIGN EDGE OF CASEWORK WITH CENTER OF MULLION.
- COUNTERTOP SUPPORT BRACKET. MANUFACTURER: RAKKS, MODEL: #EH-1818.
- REPAIR / PATCH ALL OPENINGS / PENETRATIONS IN EXISTING 1-HOUR RATED PARTITION ABOVE AND BELOW CEILING.

FLOOR PLAN - LEGEND

	DOOR (EXIST)
	PTN OR WALL (EXIST)
	PTN OR WALL (NEW)
	ALUM STOREFRONT / WINDOW (EXIST)
	EXISTING ROOM TAGS
	NEW ROOM TAGS
	EXISTING BRACKET AND MTD FIRE EXTINGUISHER.
	NEW EQUIPMENT TAG



FLOOR PLAN 1/2" = 1'-0" A3

NOTES A1

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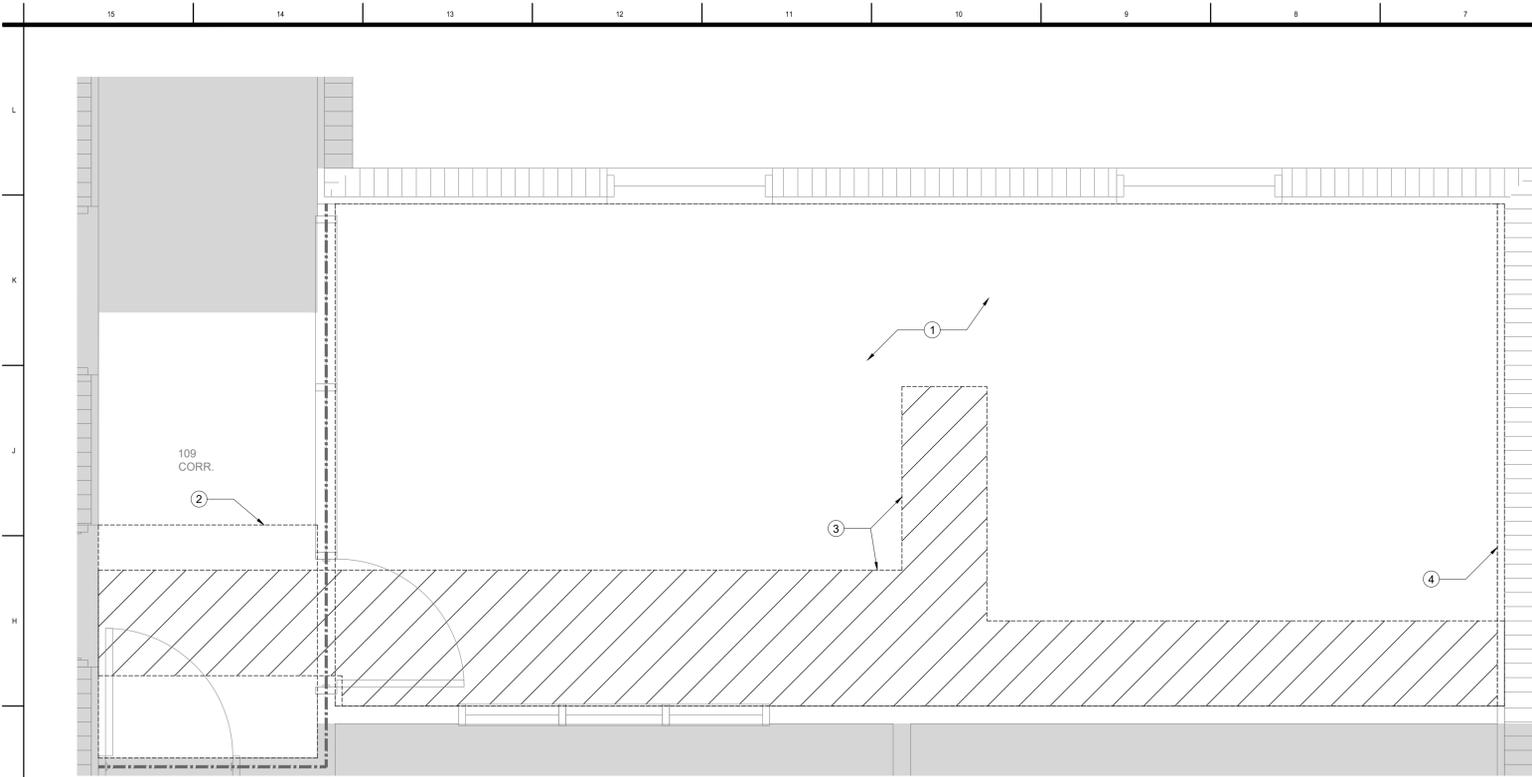
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FLOOR PLAN AND SCHEDULES

A1.1



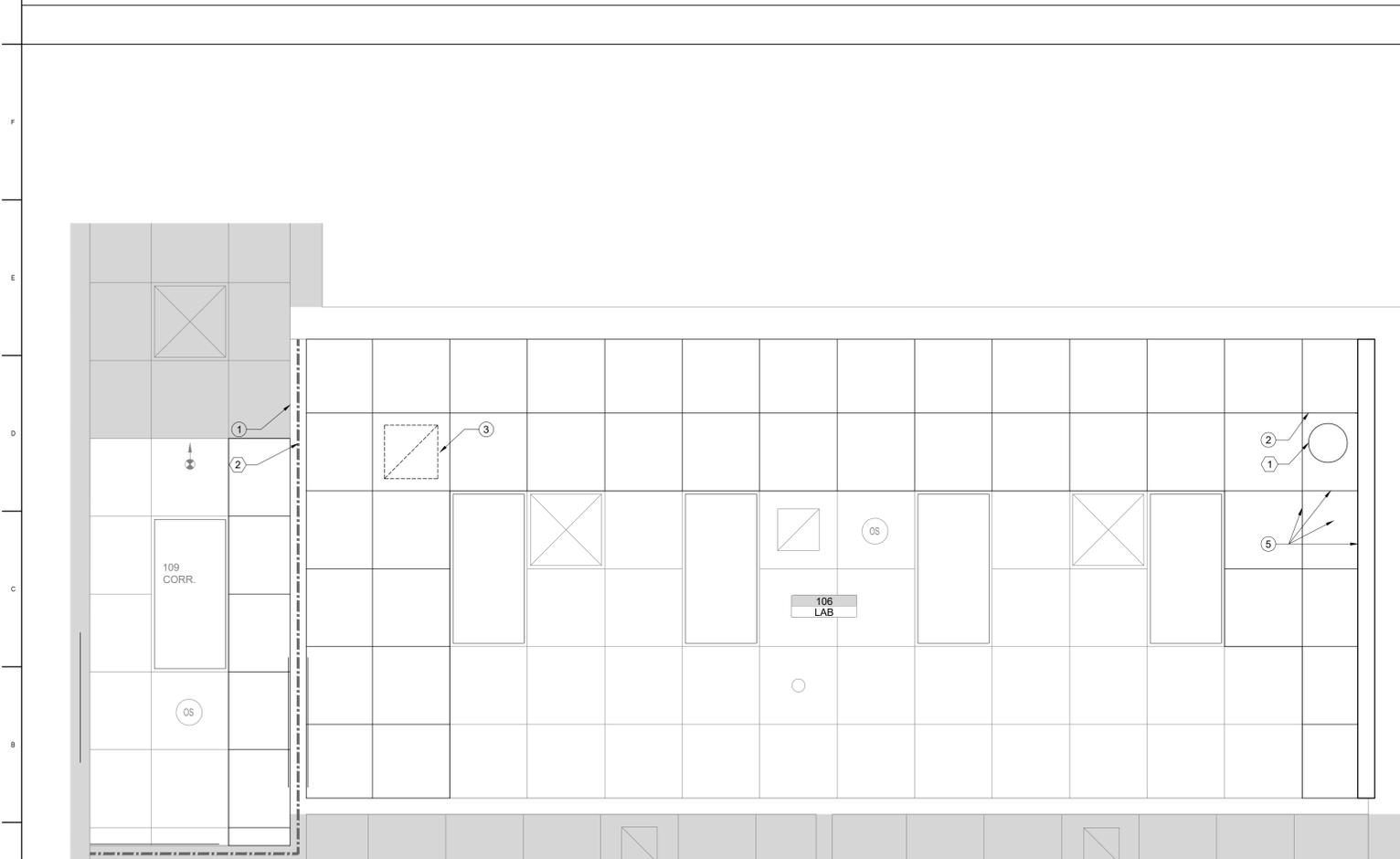
GENERAL NOTES - DEMOLITION

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS CONCERNING SELECTIVE DEMOLITION.
2. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS FOR ADDITIONAL SELECTIVE DEMOLITION SCOPE ASSOCIATED WITH REMOVAL OF ARCHITECTURAL SYSTEMS.
3. PROTECT EXISTING SYSTEMS TO REMAIN FROM DAMAGE DURING SELECTIVE DEMOLITION.
4. WHERE EXISTING FLOOR SYSTEMS ARE SCHEDULED TO BE REMOVED, REMOVE COMPLETE FLOOR SYSTEM TO SUBSTRATE INCLUDING ANY RESIDUAL BONDING AGENT. SUBSTRATE TO BE PREPARED TO RECEIVE NEW FLOOR FINISH SYSTEM.

SPECIFIC NOTES - DEMOLITION

1. REMOVE ALL FLOORING AND WALL BASE IN THIS SPACE.
2. REMOVE EXISTING FLOORING AT EXTENTS INDICATED. REMOVE FLOORING CLOSEST TO EXISTING TILE JOINT.
3. REMOVE EXISTING CONCRETE SLAB TO THE EXTENT NECESSARY FOR INSTALLATION OF NEW PLUMBING. SEE PLUMBING DRAWINGS FOR ROUTING. AREA SHOWN IS ESTIMATED. CONTRACTOR TO CONFIRM AND BID ACTUAL EXTENT OF EXISTING SLAB REQUIRED TO BE REMOVED TO FACILITATE WORK.
4. REMOVE EXISTING GYPSUM WALLBOARD, FURRING, AND INSULATION TO CMU SUBSTRATE.

SELECTIVE DEMOLITION PLAN
1/2" = 1'-0" G3



GENERAL NOTES - DEMO - RCP

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS CONCERNING SELECTIVE DEMOLITION.
2. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS FOR ADDITIONAL SELECTIVE DEMOLITION SCOPE ASSOCIATED WITH REMOVAL OF ARCHITECTURAL SYSTEMS.
3. PROTECT EXISTING SYSTEMS TO REMAIN FROM DAMAGE DURING SELECTIVE DEMOLITION.
4. CAREFULLY REMOVE ALL CEILING MOUNTED EQUIPMENT AND SIGNAGE WHERE EXISTING CEILING SYSTEMS ARE TO BE REMOVED. STORE AND COORDINATE REINSTALLATION WITH OWNER.
5. REFER TO MECHANICAL DRAWINGS FOR EXTENT OF HVAC SCOPE ABOVE CEILING FOR THE ENTIRE FLOOR. WHERE HVAC SCOPE OCCURS ABOVE EXISTING CEILING TO REMAIN, CAREFULLY REMOVE EXISTING CEILING SYSTEM TO FACILITATE WORK AND REINSTALL.

SPECIFIC NOTES - DEMO - RCP

1. REMOVE, AS REQUIRED, AND REINSTALL EXISTING APC TILE IN ADJACENT CORRIDOR WITH CARE TO FACILITATE THE INSTALLATION OF DAMPERS. CONTRACTOR TO REPAIR AND MAINTAIN EXISTING RATED PARTITION.
2. APC TILE TO BE REMOVED, CUT TO MATCH PENETRATION OF DUCT AND REINSTALLED.
3. DIFFUSER TO BE REMOVED. REPLACE APC TILE TO MATCH EXISTING.
4. EXISTING CEILING SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. CAREFULLY REMOVE AND STORE AS REQUIRED PER INSTALLATION OF MECHANICAL, ELECTRICAL AND PLUMBING, AND REINSTALL.
5. APC TILE AND GRID SYSTEM ALONG THE LENGTH OF THE EXTERIOR WALL TO BE REMOVED. CUT TO ACCOMMODATE NEW FURRED OUT PARTITION, AND REINSTALLED.

GENERAL NOTES - NEW CONST - RCP

1. VERIFY ALL EXIST DIMS (TO REMAIN).
2. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR CEILING MOUNTED DEVICES/FIXTURES TYPES AND MOUNTING REQUIREMENTS.
3. ALL NEW CEILING AND SOFFIT ELEVATIONS TO MATCH EXISTING.
4. DEVICES TO BE LOCATED IN CENTER OF APC, TYP.
5. CONTRACTOR TO CAREFULLY REMOVE EXISTING CEILING TILES AND GRID (AND STORE) AS NECESSARY TO FACILITATE ABOVE CEILING WORK AND REINSTALL WHEN COMPLETE.

SPECIFIC NOTES - RCP

1. DUCT PENETRATION. FIELD VERIFY SIZE AND LOCATION OF OPENING WITH CHEMICAL FUME HOOD DUCT.
2. REPAIR / PATCH ALL OPENINGS / PENETRATIONS IN EXISTING 1-HOUR RATED PARTITION ABOVE AND BELOW CEILING.

REFLECTED CEILING PLAN
1/2" = 1'-0" A3

REFLECTED CEILING AND SELECTIVE DEMOLITION PLAN LEGEND

- EXISTING DIFFUSER TO BE REMOVED
- EXISTING APC SYSTEM TO REMAIN
- EXISTING LIGHT FIXTURE TO REMAIN
- EXISTING DIFFUSER TO REMAIN
- EXISTING EXIT SIGN TO BE REMOVED
- EXISTING APC CEILING SYSTEM TO BE CAREFULLY REMOVED AND REINSTALLED TO FACILITATE ABOVE CEILING WORK. AREA SHOWN IS ESTIMATED. CONTRACTOR TO CONFIRM AND BID ACTUAL EXTENT OF CEILING REQUIRED TO BE REMOVED

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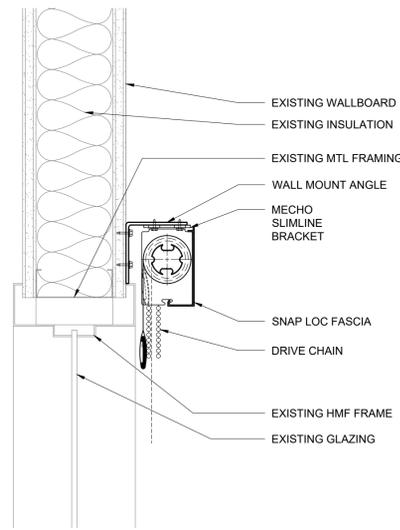
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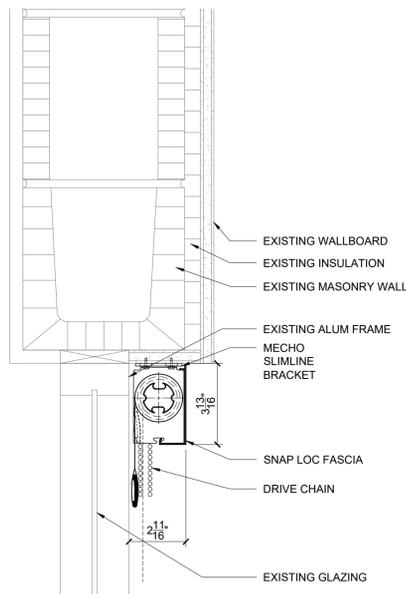
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60% CD SET	04.05.17
90% CD SUBMITTAL	05.16.17
100% CD CHECK SET	07.06.17
100% CD FINAL DRAFT	08.28.17
100% CD SUBMITTAL	08.29.17

REFLECTED CEILING PLAN AND SELECTIVE DEMOLITION PLAN

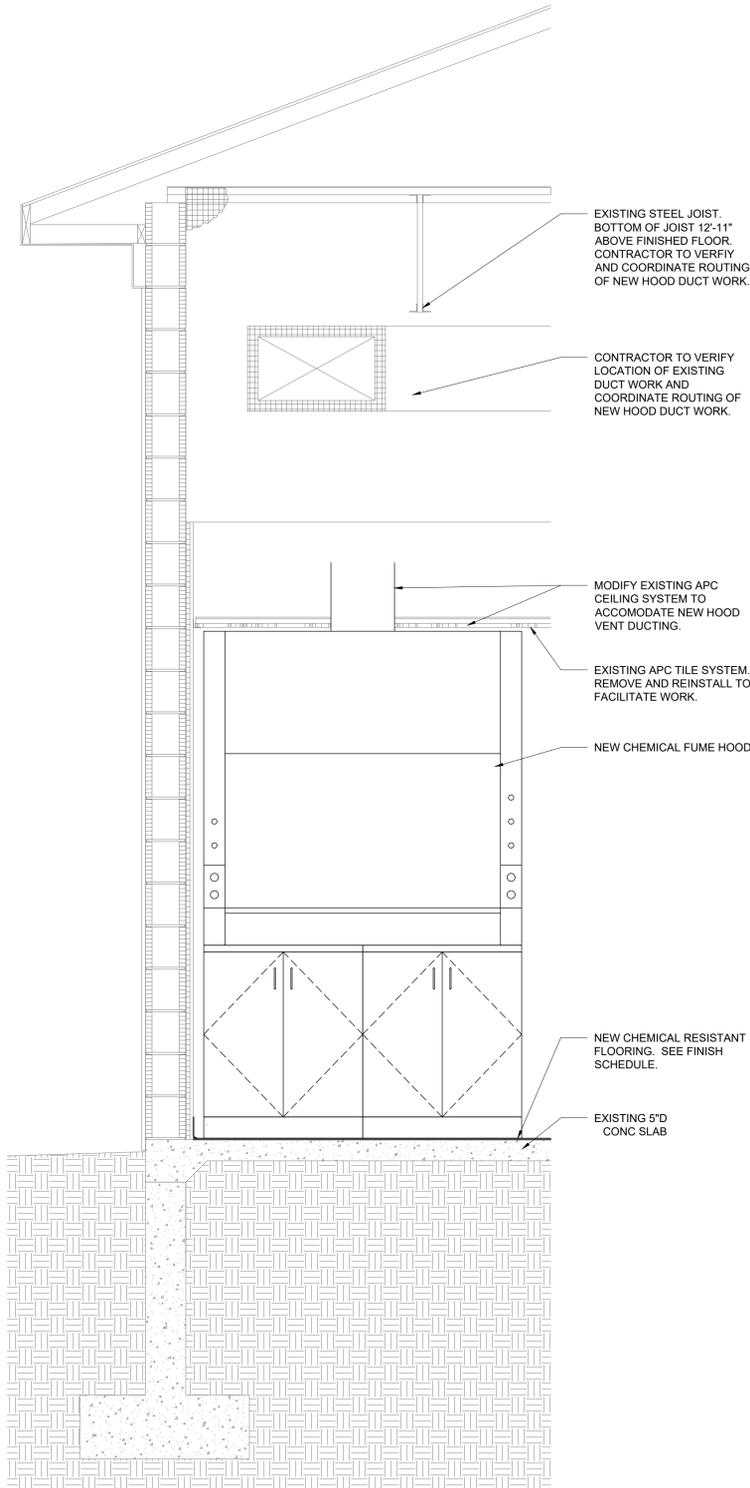
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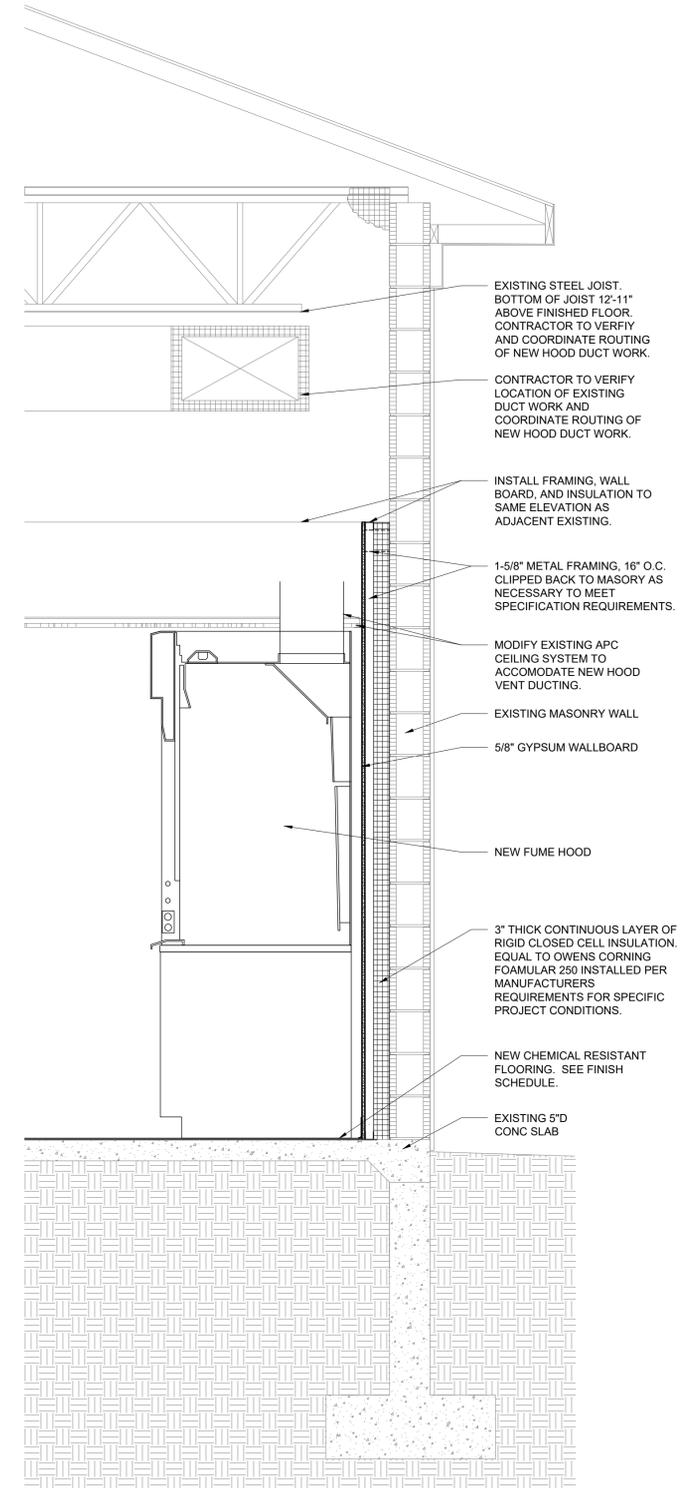
DETAIL
3" = 1'-0" F11



DETAIL
3" = 1'-0" A11



WALL SECTION
3/4" = 1'-0" A6



WALL SECTION
3/4" = 1'-0" A1

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08.29.17
Eric Rice, AIA
AR 93284

DAVID L. TIPPIN WATER TREATMENT FACILITY
RESEARCH LAB FACILITY

CITY OF TAMPA WATER
DEPARTMENT
306 E JACKSON ST. SE
TAMPA, FL 33602
COT CONTRACT: 16-D-63809

DISTRIBUTION	DATE
100% CD CHECK SET	07.06.17
100% CD FINAL DRAFT	08.28.17
100% CD SUBMITTAL	08.29.17

DETAILS

A5.1

GENERAL NOTES

- SEE SPECIFICATION SECTION 12 3553.19 FOR WOOD LABORATORY CASEWORK AT LAB ROOM 106. LAB CASEWORK TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. PROVIDE IN WALL BLOCKING.
- PROVIDE GROMMETS FOR BOTH LAB CASEWORK AND WORKSTATION CASEWORK. CONFIRM WITH OWNER PRIOR TO INSTALLATION.

NOTES J1

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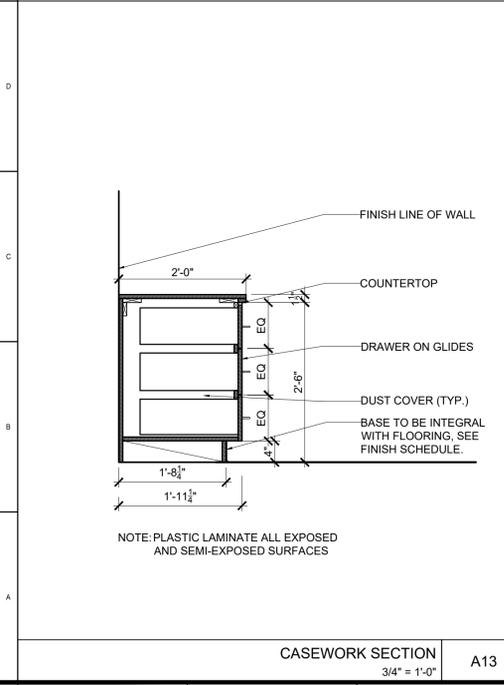
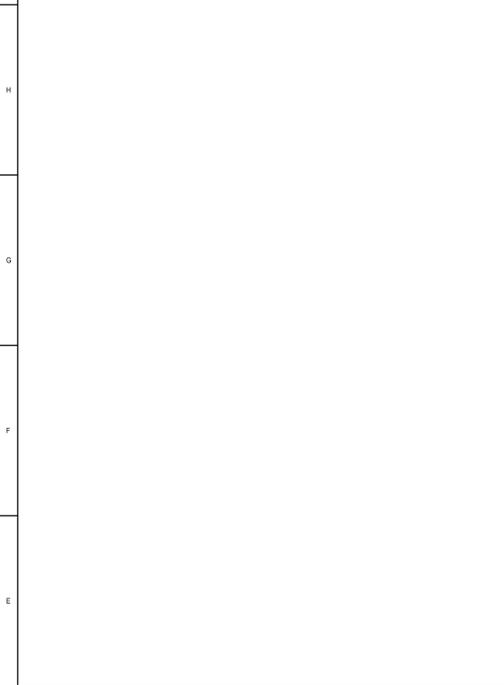
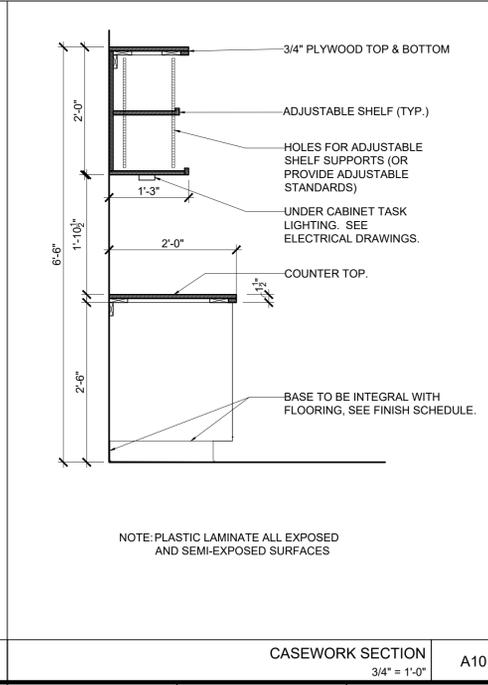
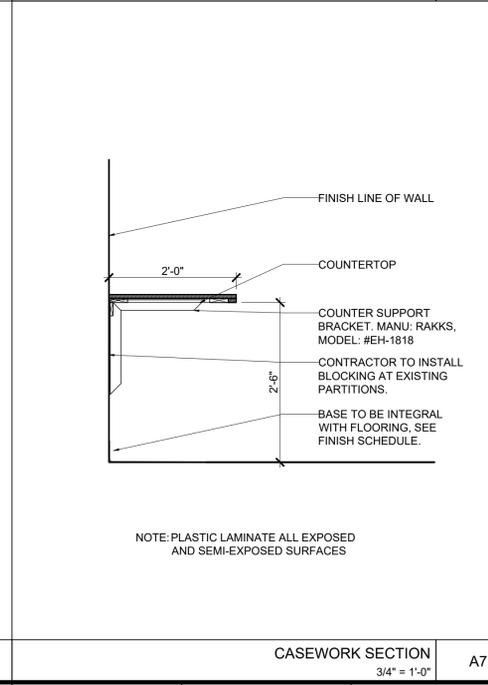
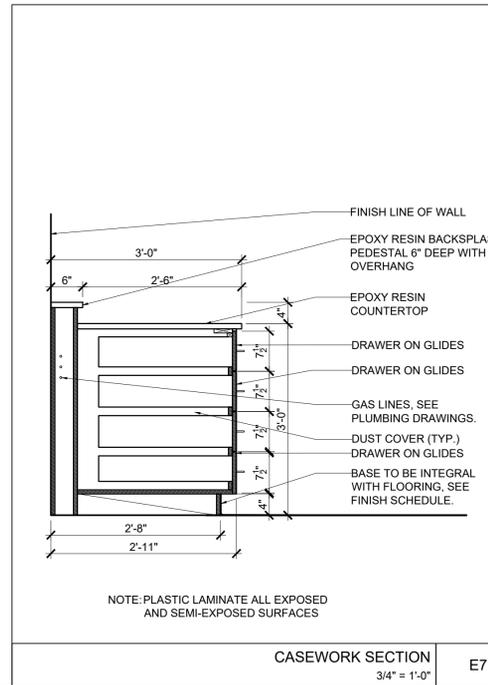
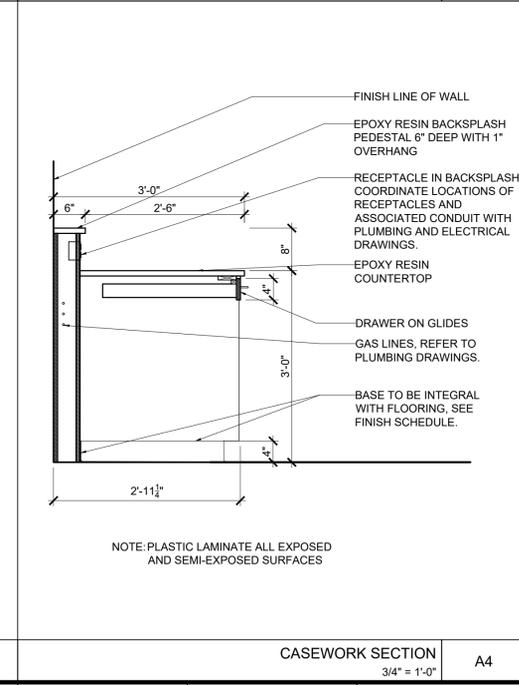
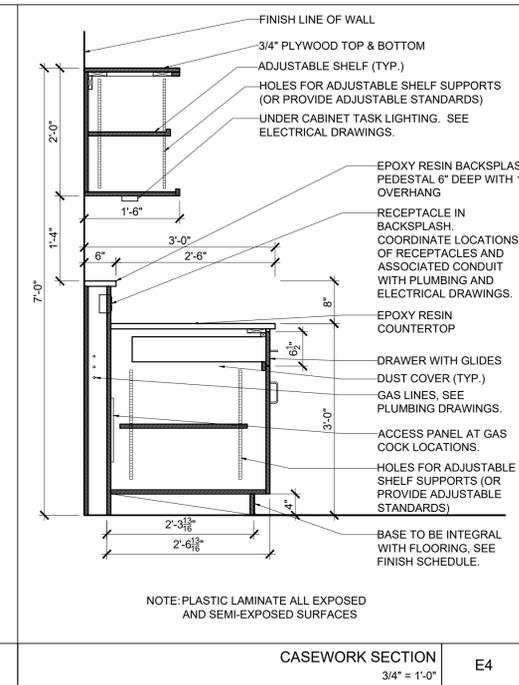
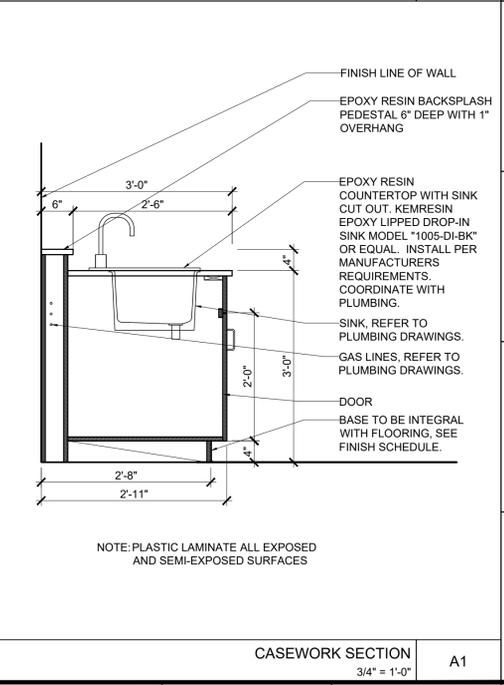
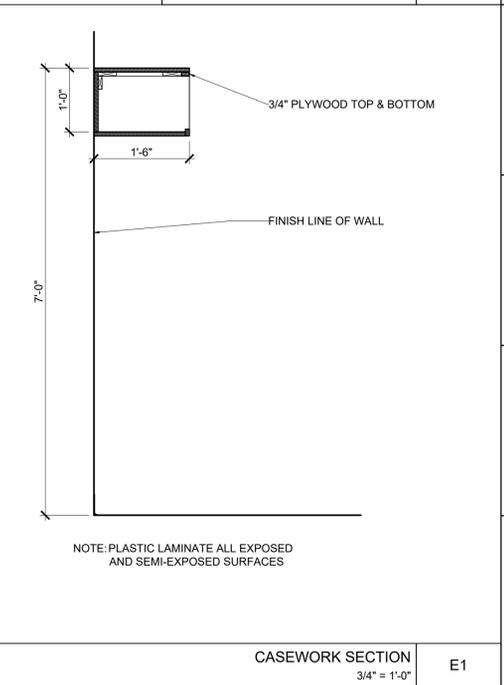
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COT CONTRACT: 16-D-63809

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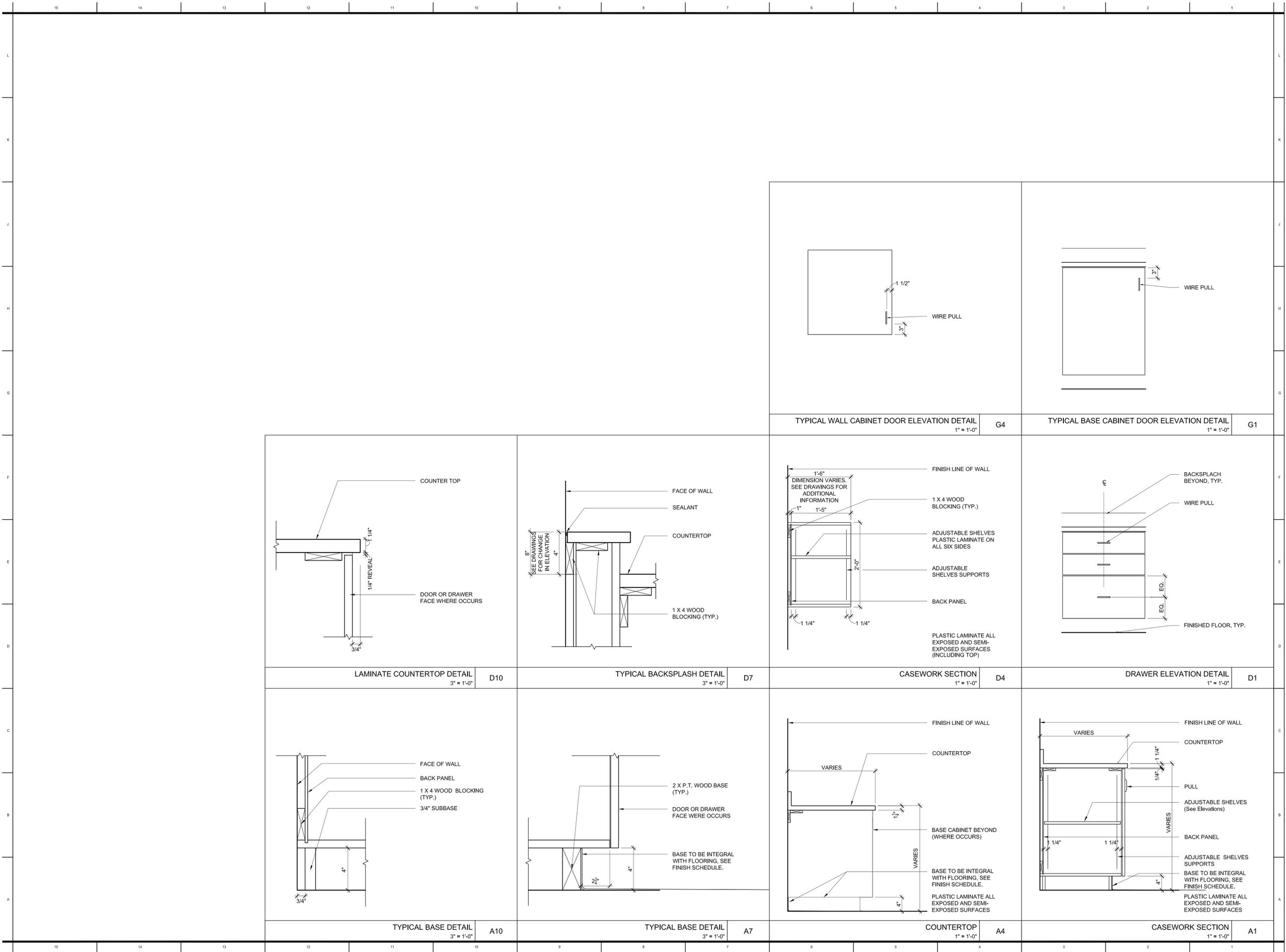
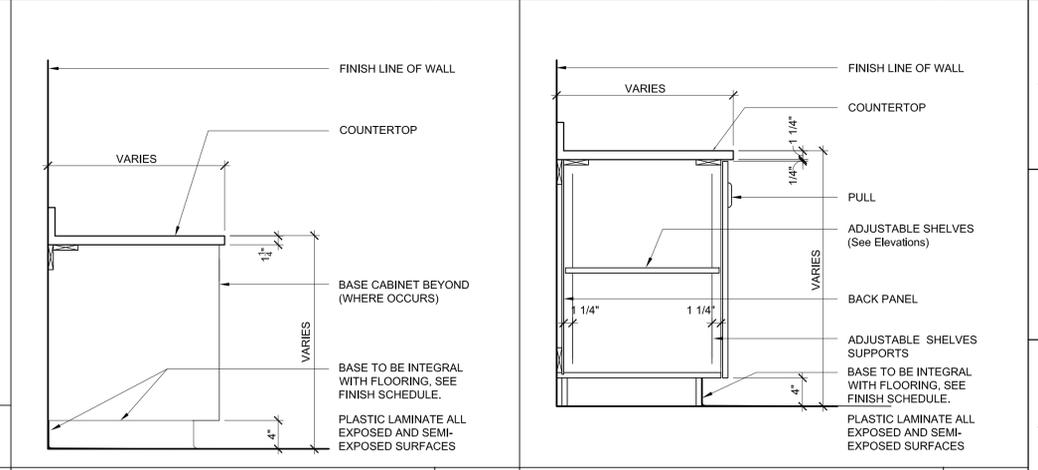
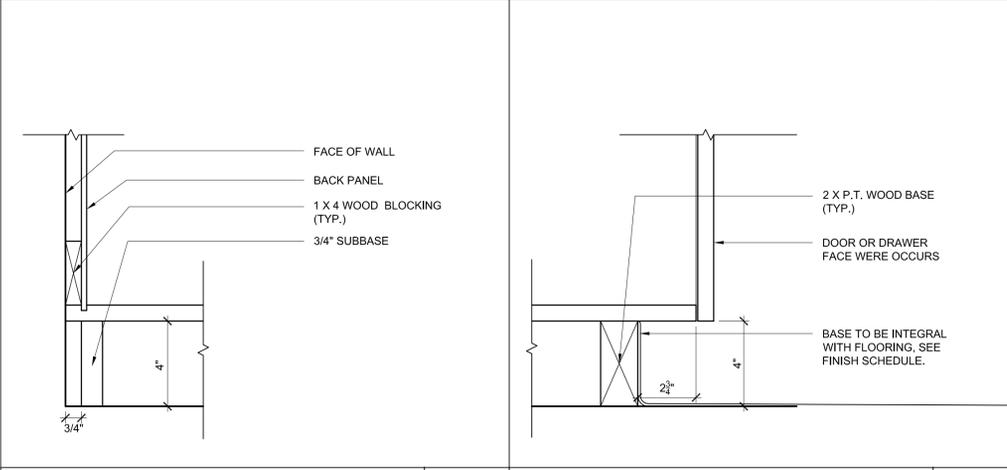
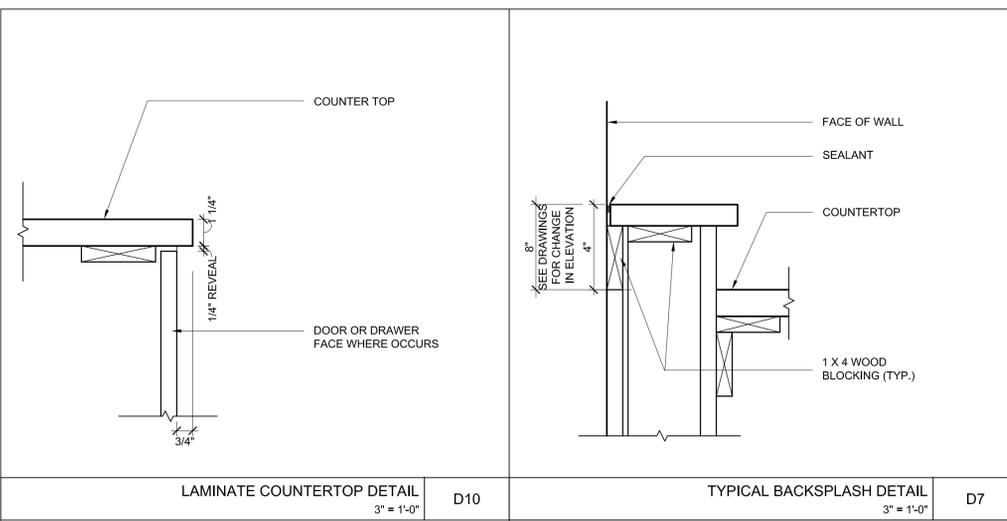
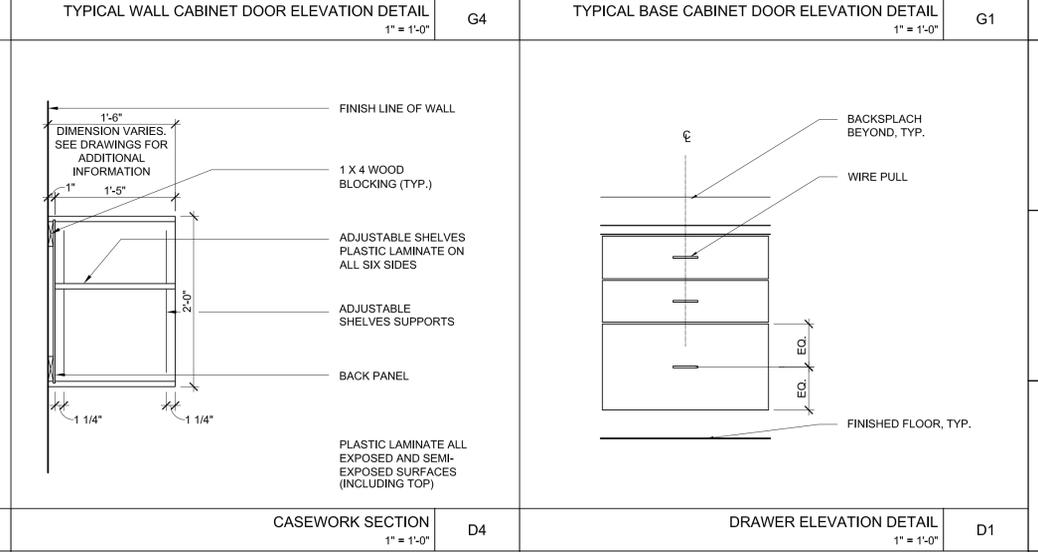
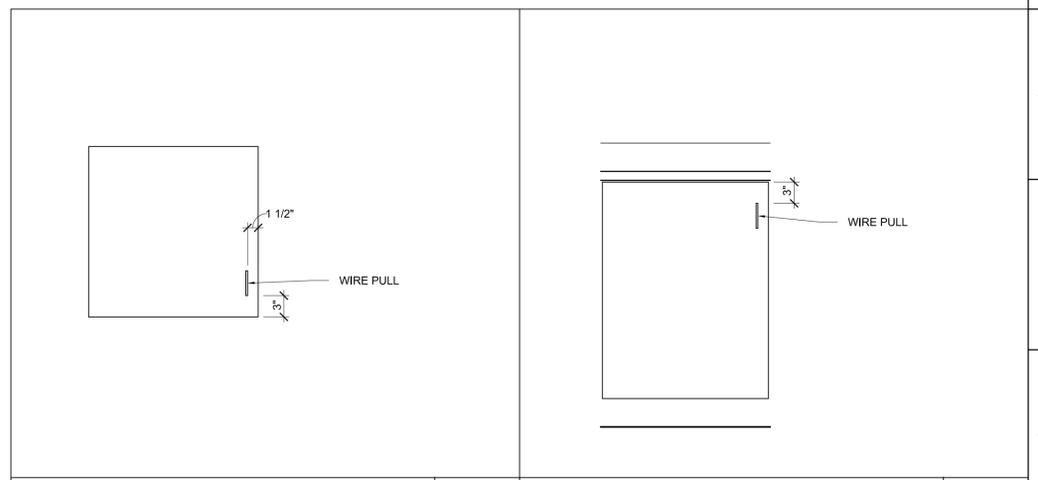
CASEWORK DETAILS

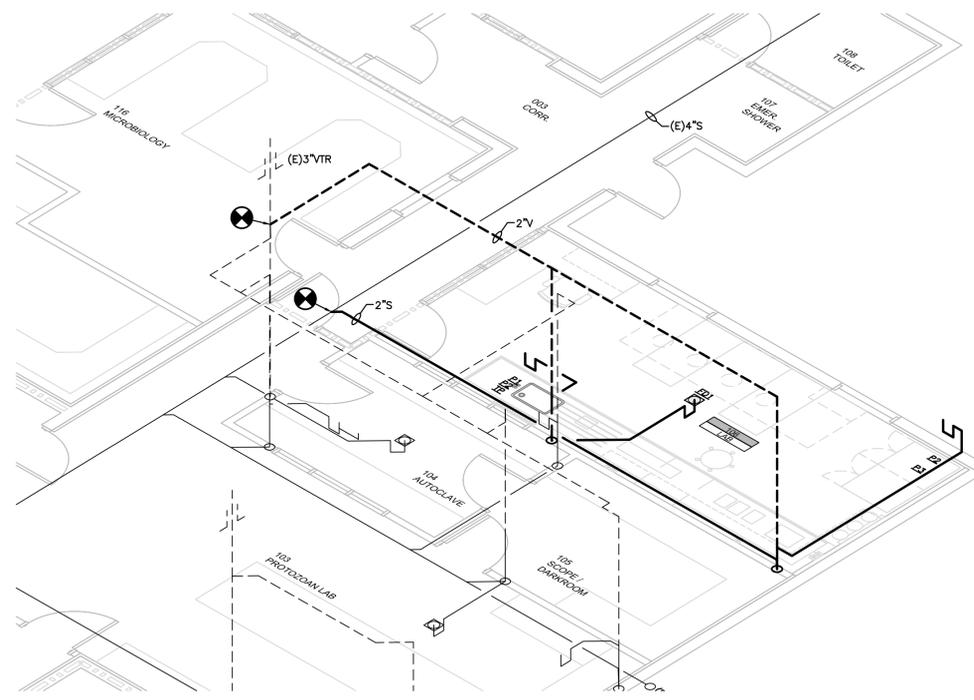
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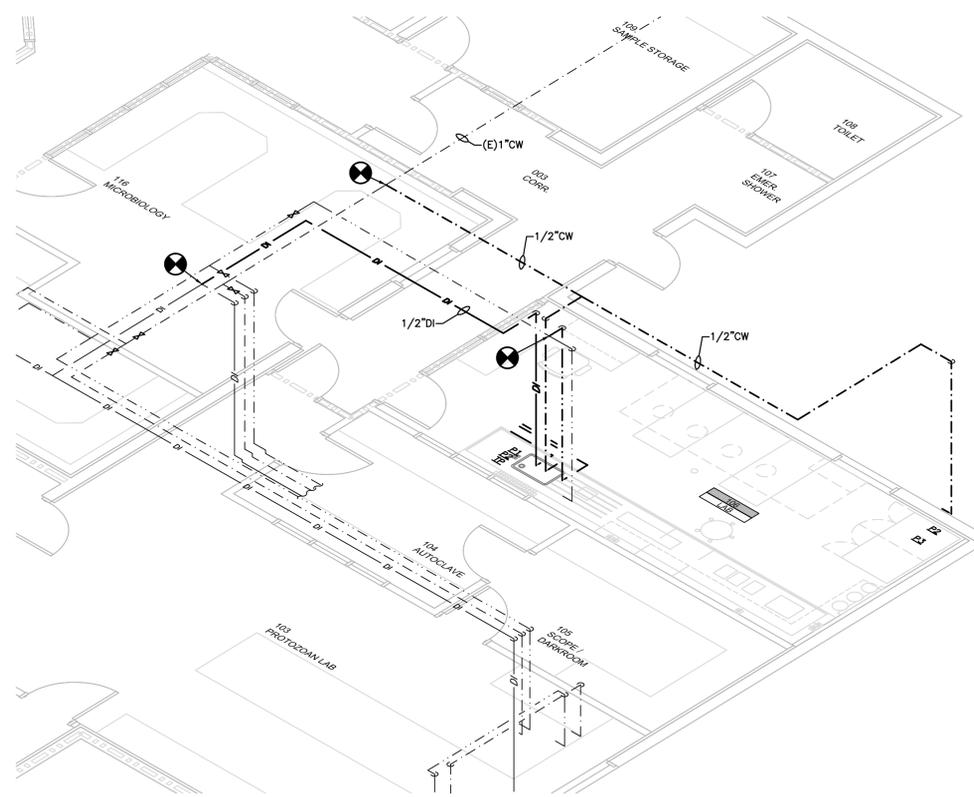
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CASEWORK
DETAILS

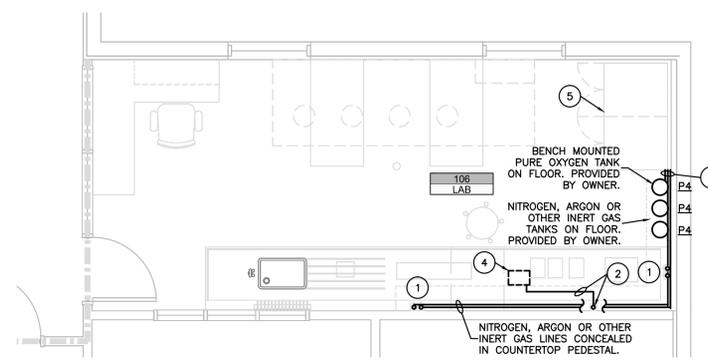




SANITARY ISOMETRIC
NOT TO SCALE G9

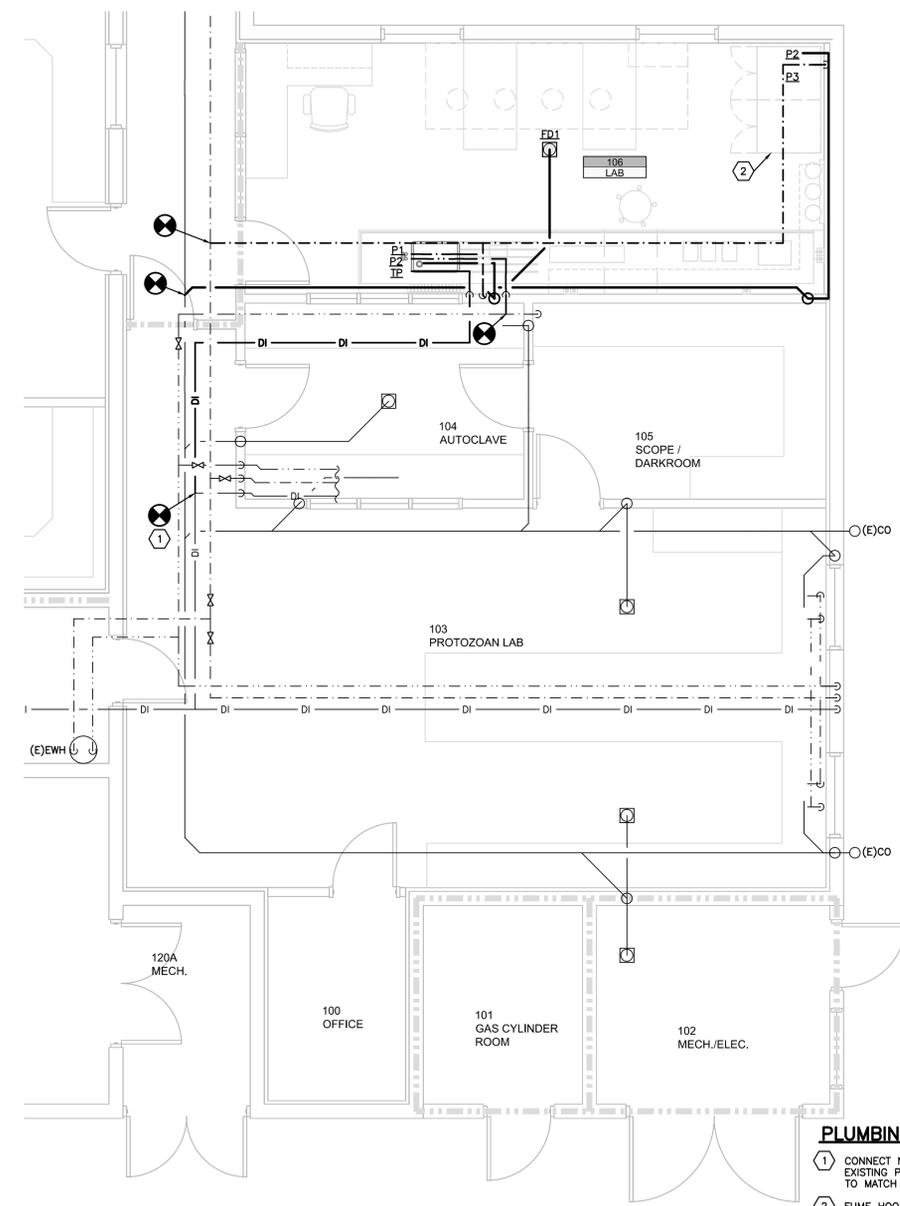


DOMESTIC AND DEIONIZED WATER ISOMETRIC
NOT TO SCALE A9



- GAS PIPING NOTES:**
- 1 PROVIDE TWO ZURN MODEL Z88000 COUNTER MOUNTED TURRETS FOR NITROGEN, ARGON OR OTHER INERT GAS LINES. VALVES AT TURRETS TO BE PROVIDED BY OWNER.
 - 2 PROVIDE ONE ZURN MODEL Z88000 COUNTER MOUNTED TURRET AND 3/8" COPPER PIPING FROM TURRET TO VACUUM PUMP. VALVES AT TURRET TO BE PROVIDED BY OWNER.
 - 3 PROVIDE TWO 3/8" NITROGEN, ARGON OR OTHER INERT GAS LINES FROM GAS TANKS TO FUME HOOD VALVES AND COUNTER MOUNTED TURRETS. VERIFY PIPE MATERIAL WITH OWNER. PROVIDE ONE DEDICATED 3/8" "CLEAN COPPER" PURE OXYGEN LINE TO FUME HOOD VALVE. ALL PURE OXYGEN VALVES SHALL BE GATE VALVES. BALL VALVES ARE NOT ACCEPTABLE. SUPPORT GAS LINES WITH CUSHIONED TUBING CLAMPS/STRAPS AT MINIMUM 2 FT. INTERVALS.
 - 4 VACUUM PUMP UNDER COUNTER. FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.
 - 5 FUME HOOD PROVIDED BY DIFFERENT DIVISION. COORDINATE ALL ACCESSORIES AND PIPING CONNECTIONS WITH FUME HOOD. AIR SERVICE WILL BE PROVIDED TO HOOD IN FUTURE.

GAS PIPING PLAN
1/4" = 1'-0" J1



- PLUMBING NOTES:**
- 1 CONNECT NEW DEIONIZED WATER PIPING TO EXISTING PIPING. NEW DEIONIZED WATER PIPING TO MATCH EXISTING MATERIAL.
 - 2 FUME HOOD PROVIDED BY DIFFERENT DIVISION. COORDINATE ALL ACCESSORIES AND PIPING CONNECTIONS WITH FUME HOOD.

PLUMBING PLAN
1/4" = 1'-0" A1

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HARRY W. PORTELLOS, P.E. 61597
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS
AND THE PROJECT MANUAL ARE COMPLETE AND
COMPLY WITH THE 2014 FLORIDA BUILDING CODE

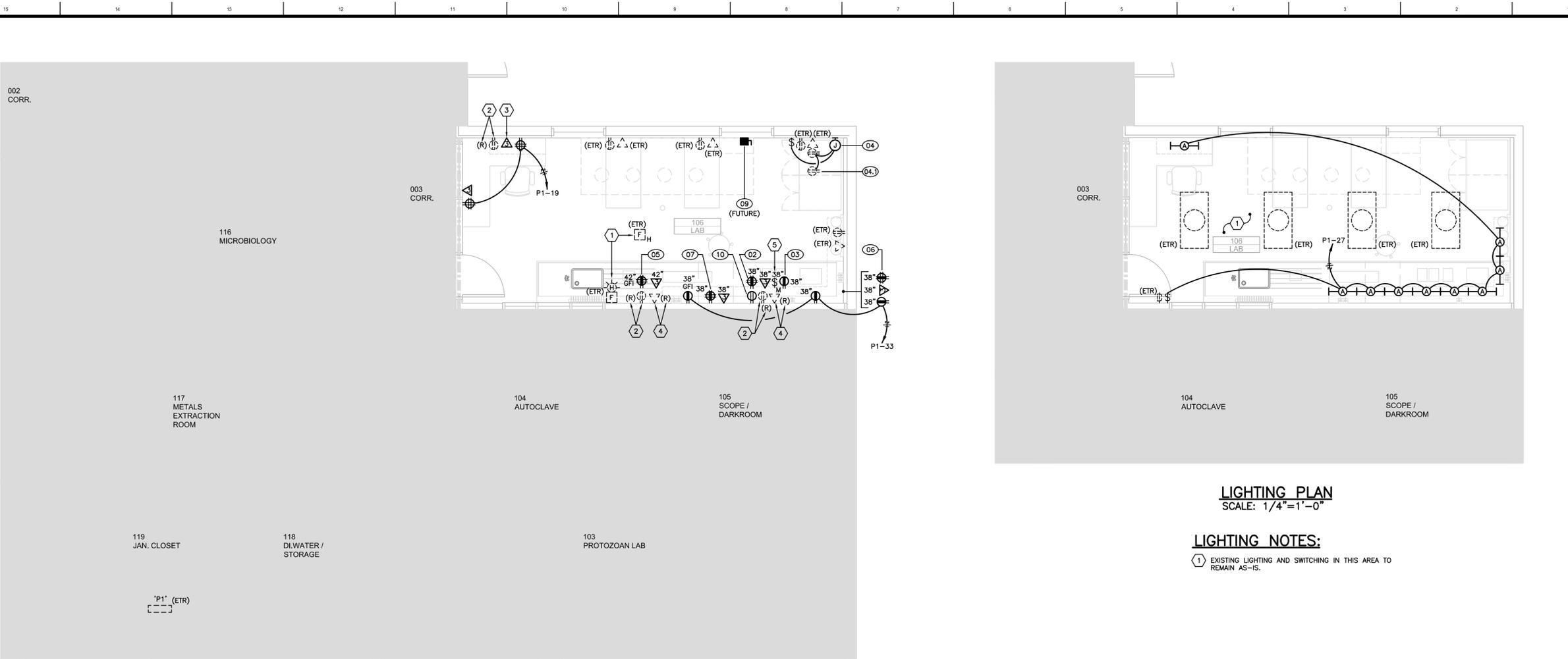
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PLUMBING PLANS,
SANITARY & DOMESTIC
AND DEIONIZED
WATER ISOMETRICS

P101

DAVID L. TIPPIN WATER TREATMENT FACILITY
RESEARCH LAB FACILITY



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

LIGHTING NOTES:

- ① EXISTING LIGHTING AND SWITCHING IN THIS AREA TO REMAIN AS-IS.

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

POWER GENERAL NOTES:

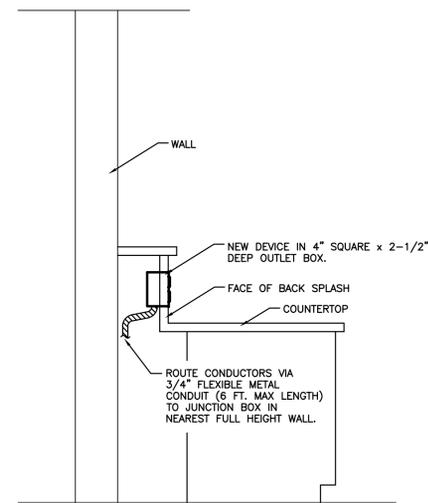
1. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES WITH ARCHITECTURAL DIMENSION PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
2. ALL NEW RECEPTACLE AND DATA OUTLETS TO BE MOUNTED HORIZONTALLY.
3. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON THIS SHEET FOR ELECTRICAL REQUIREMENTS OF LAB EQUIPMENT SHOWN ON POWER PLAN.
4. REFER TO TYPICAL DEVICE MOUNTING IN BACK SPLASH DETAIL AND COORDINATE WITH OTHER DIVISIONS TO AVOID CONFLICTS WITHIN CASEWORK.

POWER KEYED NOTES:

- ① EXISTING FIRE ALARM DEVICE TO REMAIN. COVER DEVICES TO PROTECT FROM DUST AND DEBRIS DURING CONSTRUCTION. TYPICAL FOR ALL FIRE ALARM DEVICES.
- ② DISCONNECT AND REMOVE EXISTING DUPLEX RECEPTACLE AND ASSOCIATED ACCESSIBLE CONDUIT AND CONDUCTORS BACK TO LAST ACTIVE DEVICE. PROVIDE BLANK COVER PLATE FOR EXISTING TO REMAIN OUTLET BOX. REFER TO DEMOLITION NOTES FOR FURTHER INSTRUCTION.
- ③ REMOVE EXISTING VOICE/DATA CABLING AND RE-USE EXISTING DATA OUTLET BOX AND CONDUIT AT THIS LOCATION FOR NEW COMMUNICATIONS OUTLET AS SHOWN.
- ④ DISCONNECT AND REMOVE EXISTING DATA OUTLET AND ASSOCIATED ACCESSIBLE CONDUIT AND CABLING BACK TO LAST ACTIVE DEVICE. PROVIDE BLANK COVER PLATE FOR EXISTING TO REMAIN OUTLET BOX. REFER TO DEMOLITION NOTES FOR FURTHER INSTRUCTION.
- ⑤ MOUNT ON/OFF MOTOR RATED CONTROL SWITCH FOR VACUUM PUMP HORIZONTALLY IN BACK SPLASH AT 38" AFF TO BOTTOM.

DEMOLITION GENERAL NOTES:

1. REMOVE EXISTING WIRING AND EQUIPMENT/DEVICES WHICH ARE NOT NECESSARY FOR THE FUNCTION OF NEW ELECTRICAL SYSTEM.
2. REMOVE ABANDONED WIRING ENTIRELY UNLESS NOTED AND REMOVE ACCESSIBLE RACEWAYS.
3. CUT, CAP AND PATCH OVER CONCEALED CONDUITS AT POINT OF EMERGENCE.
4. DISPOSE OF SCRAP AND DEBRIS. EXISTING EQUIPMENT AND MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED EXCEPT WHERE SPECIFICALLY NOTED.
5. WHERE DEVICES ARE REMOVED CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING RECEPTACLES AND OTHER DEVICES THAT REMAIN.
6. REMOVE EXISTING WIRING DEVICES AS REQUIRED FOR THE REMOVAL OF WALLS AND/OR THE INSTALLATION OF NEW WALL FINISHES.
7. WHERE DEVICES ARE REMOVED, CONTRACTOR SHALL ALSO REMOVE OUTLET BOX, CONDUCTORS, CONDUIT AND MOUNTING HARDWARE UNLESS SPECIFICALLY NOTED OTHERWISE. EXCEPTION TO THIS REQUIREMENT MAY BE WHERE CONTRACTOR PROPOSES TO RE-USE CONDUIT CONCEALED OR OUTLET BOX RECESSED IN EXISTING WALL OR FLOOR SLAB FOR NEW WORK IF APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER.
8. ANY PRODUCT CONTAINING MERCURY (INCLUDING BUT NOT LIMITED TO FLUORESCENT LAMPS) SHALL BE PROPERLY MANAGED IN ACCORDANCE WITH DISPOSAL LAWS WHEN IT BECOMES WASTE TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT. PLEASE VISIT www.lamprecycle.org OR CALL 1-866-666-6850.



TYPICAL DEVICE MOUNTING IN BACK SPLASH
NOT TO SCALE



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EXISTING PANEL

PANEL: P1		3PH,4W										MLO: 0 AMPS	
AIC RATING: EXIST												MCB: 100 AMPS	
SERVICE: 120/208 V.													
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION			
REC; NE HVAC	0.7	20	1				2	20	0.7	REC; GAS CYLINDER			
REC; HALLWAY	0.9	20	3				4	20	0.7	REC; JAN CLOSET			
REC; JAN CLOSET	0.2	20	5				6	2P	0	SPARE			
SPARE	0	2P	7				8	30	0	SPARE			
SPARE	0	30	9				10	3P	0	SPARE			
SPARE	0	3P	11				12	20	0	SPARE			
SPARE	0	50	13				14	--	0	SPARE			
SPARE	0	--	15				16	70	0	SPARE			
EQ; FILTRATION PILOT PLANT	2.0	30	17				18	20	1.2	EQ; CHEM. FUME HOOD			
REC; WORK STATION LAB 106	0.7	20	19				20	20	0.2	EQ; OZONE GENERATOR			
LTG; NORTH HALLWAY	1.0	20	21				22	20	1.0	LTG; NE EXIT			
LTG; NE HVAC/MECH	1.0	20	23				24	20	1.0	LTG; JAN CLOSET			
LTG; GAS CYLINDER STOR	1.0	20	25				26	20	1.2	EQ; COMPACT OVEN			
LTG; LAB 106	0.1	20	27				28	20	0.12	EQ; JAR TESTER			
EQ; STIRRER	0.06	20	29				30	20	1.2	EQ; VACUUM PUMP			
EQ; STIRRING HOT PLATE	1.1	20	31				32	40	0	SPARE			
REC; GENERAL PURPOSE	0.5	20	33				34	40	0	SPARE			
EQ; FACP	0.3	20	35				36	20	0.3	EQ; PERISTALTIC PUMP			
SERVES		A PH = 5.60		B PH = 4.32		C PH = 7.26		DIVERSITY		KVAD		PANEL KVAD	
LIGHTING	5.10	x	1.25	=	6.38	x	=						
RECEPT	4.40	x	*	=	4.40	x	=						
MISC EQUIP	7.68	x	1.00	=	7.68	x	=						
A/C	0.00	x	1.00	=	0.00	x	=						
HEATING	0.00	x	1.00	=	0.00	x	=						
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=						
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=						
OTHER	0.00	x	1.00	=	0.00	x	=						
SPARE													
TOTALS	17.18	KVA			35.98	KVA							

* PER N.E.C. TABLE 220.44

ALL PANELBOARD DIRECTORY CARDS SHALL BE TYPEWRITTEN AND ACCURATELY LABELED AND NUMBERED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.

E = EXISTING CIRCUIT TO REMAIN.
 N = NEW BREAKER AND CIRCUIT.
 R = REUSE EXISTING CIRCUIT BREAKER TO FEED NEW CIRCUIT.
 S = SPARE OUT EXISTING BREAKER. REMOVE ALL ABANDONED CONDUCTORS AND CONDUIT.
 SWITCH BREAKER TO OFF POSITION AND LABEL AS SPARE.
 D = REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW BREAKER, CONDUIT AND WIRE.

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE											
MARK	DESCRIPTION	VOLTAGE /PHASE	RLA	MCA	BREAKER	KVA	HOMERUN CIRCUIT	CONDUIT & CABLING	CONNECTION	DISCONNECT/PLUG TYPE	NOTES
02	STIRRER	120/1	0.5	0.6	20	0.06	P1-29	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	5-20R	NOTES #1,2
03	STIRRING HOT PLATE	120/1	9.2	11.5	20	1.1	P1-31	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	5-20R	NOTES #1,2
04	CHEMICAL FUME HOOD	120/1	10.0	12.5	20	1.2	P1-18	3/4"C; 2 #12 & 1 #12 E.G.	HARDWIRED	20A-1P TOGGLE TYPE	NOTES #1,2,3
04.1	OZONE GENERATOR (MOUNTED IN FUME HOOD)	120/1	2.0	2.5	20	0.2	P1-20	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	5-20R	NOTES #1,2,4,5,7
05	PERISTALTIC PUMP	120/1	2.2	2.8	20	0.3	P1-36	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	ORDER W/UNIT	NOTES #1,2,6
06	COMPACT OVEN	120/1	10.0	12.5	20	1.2	P1-26	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	5-20R	NOTES #1,2
07	JAR TESTER	120/1	1.0	1.3	20	0.12	P1-28	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	5-20R	NOTES #1,2,5
09	FILTRATION PILOT PLANT	120/1	16.5	20.6	30	2.0	P1-17	3/4"C; 2 #10 & 1 #10 E.G.	HARDWIRED	NEMA 1, 30A-2P FUSED DISCONNECT.	NOTES #1,2
10	VACUUM PUMP	120/1	10.0	10.3	20	1.2	P1-30	3/4"C; 2 #12 & 1 #12 E.G.	CORD/PLUG	5-20R	NOTES #1,2,6

ELECTRICAL EQUIPMENT CONNECTION NOTES:

- FIELD VERIFY CONNECTION REQUIREMENTS OF ACTUAL EQUIPMENT SUPPLIED PRIOR TO PURCHASE/ROUGH-IN OF ELECTRICAL CONNECTION DEVICE OR EQUIPMENT.
- FIELD VERIFY MANUFACTURER'S RECOMMENDED OVERCURRENT PROTECTION DEVICE SIZE AND PROVIDE CIRCUIT AND BREAKER ACCORDINGLY.
- UNIT REQUIRES FIELD WIRING OF FACTORY MOUNTED EXPLOSION PROOF LED VAPOR TIGHT LUMINAIRE BY ELECTRICAL CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
- PROVIDE A SEPARATE 120V CONNECTION AND FIELD WIRING OF OWNER PROVIDED OZONE GENERATOR ASSOCIATED WITH FUME HOOD.
- PROVIDE CORD/PLUG FOR UNIT.
- MOUNT RECEPTACLE IN CASEWORK FOR POWER TO PUMP. ROUTE CIRCUIT VIA MOTOR RATED TOGGLE SWITCH MOUNTED ABOVE COUNTER FOR ON/OFF CONTROL OF PUMP. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- PLUGS INTO RECEPTACLE ON THE FUME HOOD.

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ELECTRICAL SCHEDULES

E201