The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

Tampa Water Department

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

CONTRACT NO: 16-D-63809

DRAWING INDEX:

ARCHITECTURAL

PLUMBING

MECHANICAL

ELECTRICAL

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CITY OF TAMPA ATLAS
PAGE: D-14
SECTION 29
TOWNSHIP 28 SOUTH
RANGE 19 E

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1315 E. Seventh Avenue
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wilderarchitecture.com

AA26000655

WILDERARCHITECTURE, INC.

PROJECT TEAM

MECHANICAL / ELECTRICAL
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1315 W FLETCHER AVENUE, SUITE A
TAMPA, FL 33612
TEL: 813-963-1919
FAX: 813-963-2815

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

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

ARCHITECTURAL ABBREVIATIONS AND ACRONYMS | D12

DRAWING TAGS

FURNITURE & EQUIP

PARTITION TYPE

SPECIFIC NOTE

WINDOW TYPE

W03

HOLLOW METAL FRAME TYPE

F11

DOOR TAG

101a

LOUVER TAG

L01

SPOT ELEV

SIGNAGE TAGS

| SIGNAGE LOCATION

DRAWING IDENTIFICATION

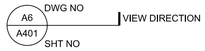
DWG NAME / SCALE	DWG NO

NORTH ARROW

GRAPHIC SCALE

DETAIL INDICATION

SECTION CUT INDICATION



ELEVATION INDICATION

ARCHITECTURAL DRAWING SYMBOLS | D8

ARCHITECTURAL

PLUMBING

MECHANICAL

ELECTRICAL

DRAWING INDEX | G1

PROJECT ADDRESS:
7125 NORTH 30TH STREET
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CITY OF TAMPA ATLAS PAGE: D-14
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VICINITY MAP | A1

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AA26000655

WILDERARCHITECTURE, INC.

08.29.17

Eric Rice, AIA
AR 92264

STATE OF FLORIDA
ERIC C. RICE
AR92264
REGISTERED ARCHITECT

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

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

LIFE SAFETY LEGEND

PRIMARY EXIT	EXISTING CABINET MTD FIRE EXTINGUISHER.
EXISTING 1HR FIRE RATING	NEW OR RELOCATED CABINET MTD FIRE EXTINGUISHER.
NEW 1HR FIRE RATING	EXISTING BRACKET AND MTD FIRE EXTINGUISHER.
EXISTING 2HR FIRE RATING	NEW OR RELOCATED BRACKET AND MTD FIRE EXTINGUISHER.
TRAVEL DISTANCES	PTN OR WALL (NEW)
END OF COMMON PATH OF TRAVEL	DOOR (NEW)
NEW EXIT SIGN, SEE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS	PTN OR WALL (EXIST)
EXISTING EXIT SIGN TO REMAIN, SEE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS	DOOR (EXIST)
400A CORRIDOR — EXISTING SPACE TO REMAIN (NO SCOPE)	
432D CONSULT — REMODELED/RENOVATED SPACE	

DRAWING LEGEND

LIFE SAFETY PLAN

1/8" = 1'-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

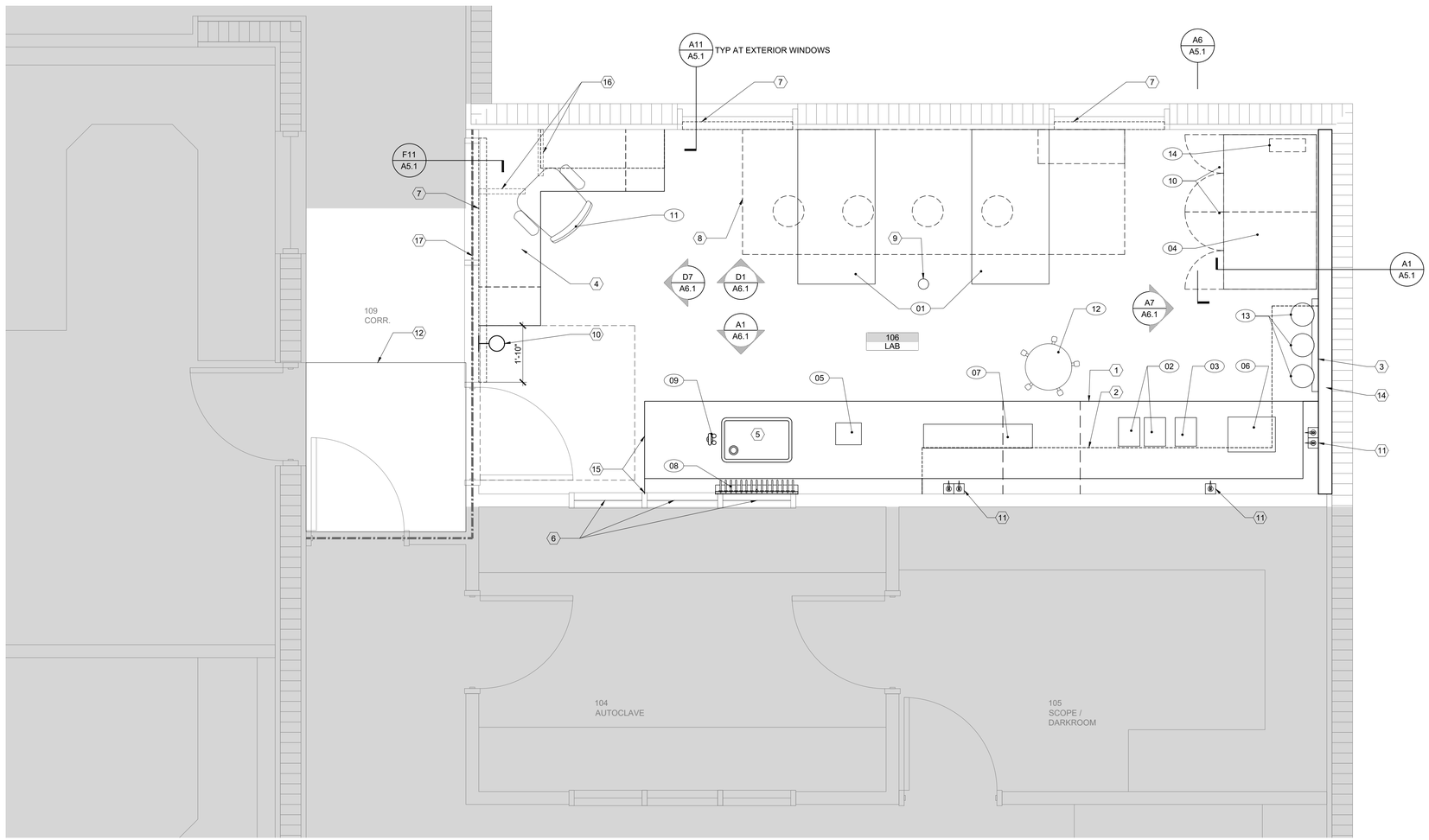
REMARKS

1. NEW PAINTED GWB TO MATCH EXISTING.
2. 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.
3. EXISTING CEILING TO REMAIN.
4. 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.
5. INSTALL NEW TILE TO MATCH EXISTING REMOVED TO FACILITATE SANITARY TIE-IN.

EQUIPMENT SCHEDULE

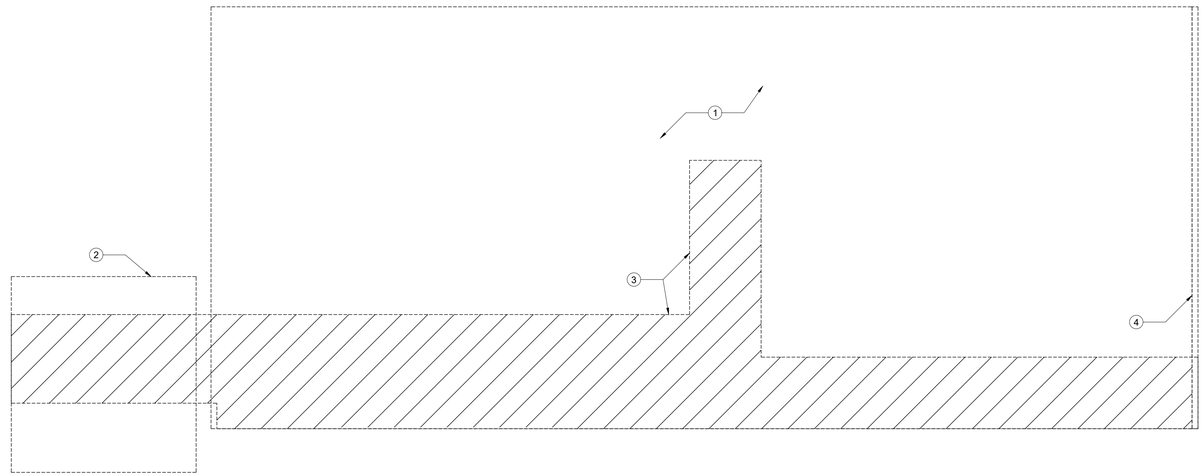
NUMBER	DESCRIPTION	CONTRACT STATUS				MOUNT	REMARKS
		CP	OP	CI	OI		
01	PORTABLE WORKBENCH	•		•		FLOOR	-30" D X 60" L X ADJUSTABLE 30" - 37.5" WORK HEIGHT -PHENOLIC TOPS - BLACK WITH DRIP GROOVE (4 SIDES), MODEL #8830 -#0006 CARDINAL WHITE - COAT FINISH -PULL-OUT SHELF (RIGHT SIDE), MODEL #N3142 (KIT-09A) -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 #1250 -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		•		•		MOUNTED IN CHEMICAL FUME HOOD

SCHEDULES



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

192



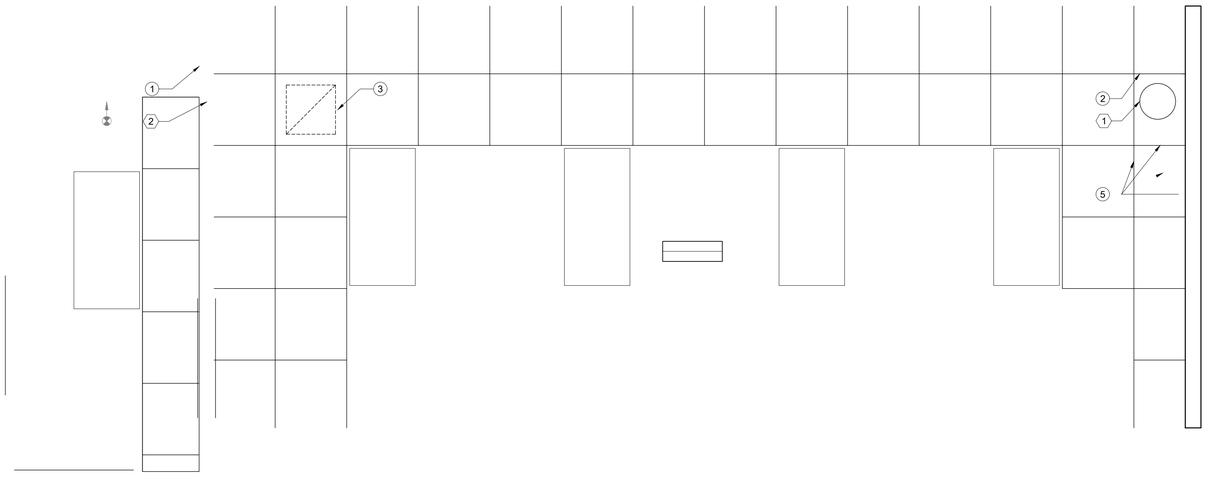
GENERAL NOTES - DEMOLITION

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.

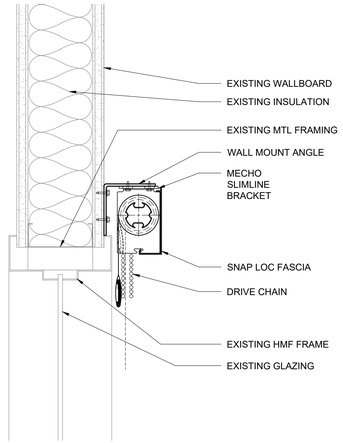
SPECIFIC NOTES - DEMOLITION

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.

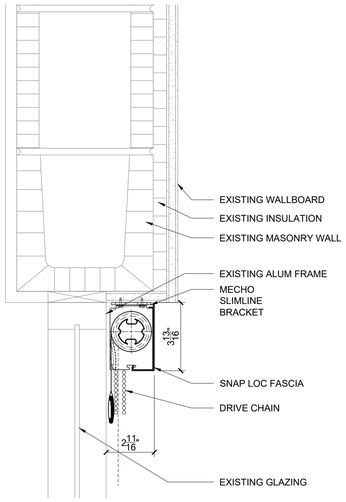
SELECTIVE DEMOLITION PLAN
1/2" = 1'-0"



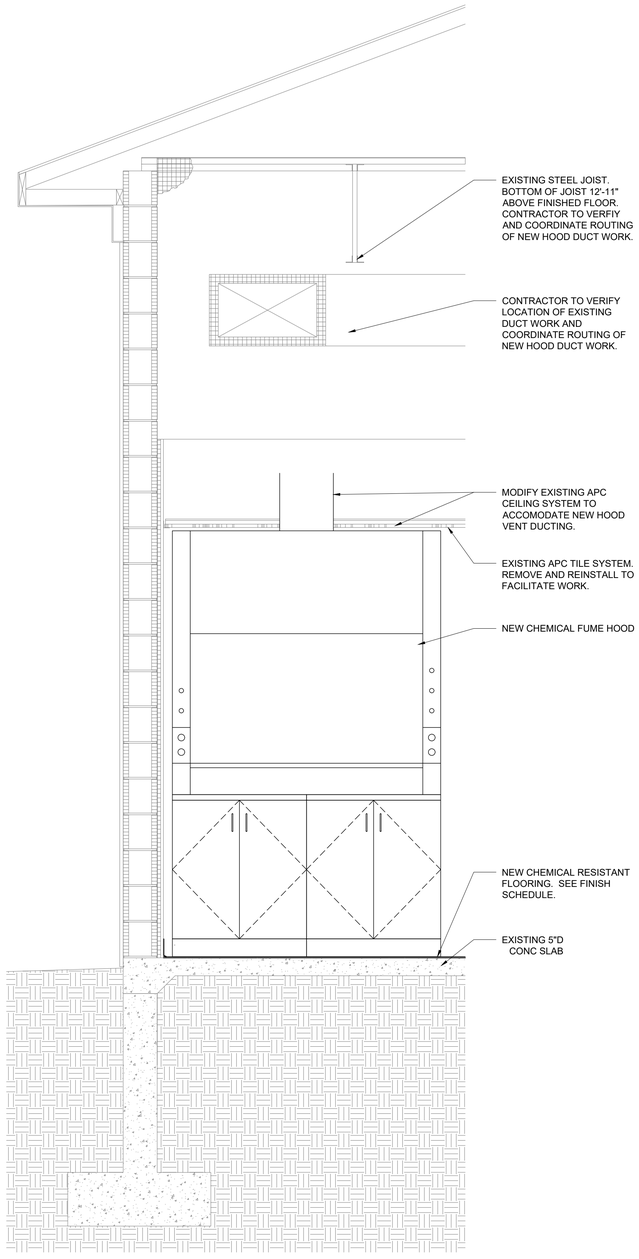
REFLECTED CEILING PLAN
1/2" = 1'-0"



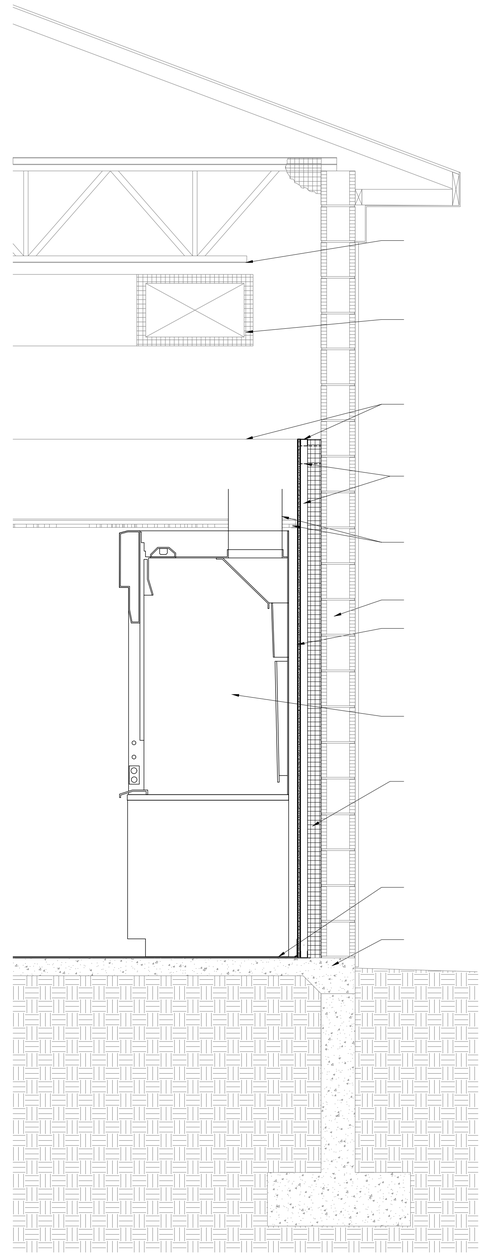
DETAIL 3" = 1'-0" F11



DETAIL 3" = 1'-0" A11



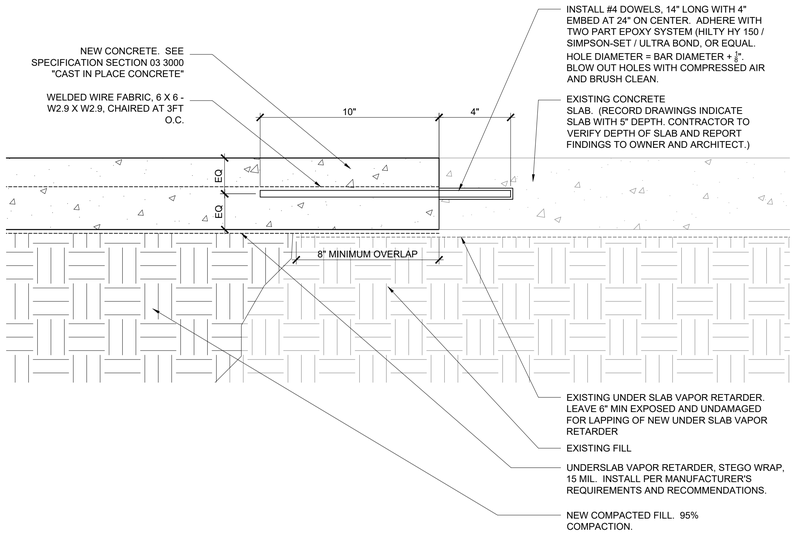
WALL SECTION 3/4" = 1'-0" A6



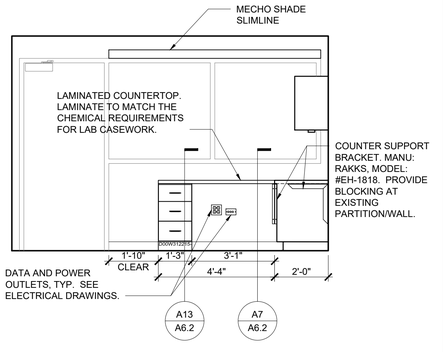
TERMITE TREATMENT NOTES

1. TREATEMENT PRODUCT(S): AS LISTED AS A CURRENT TERMITICIDE REGISTEREED IN FLORIDA FOR PREVENTATIVE TREATMENT OF NEW CONSTRUCTION. IMIDACLOPRID (SUCH AS PREMISE 75) OR FIPRONIL (SUCH AS TERMIDOR 80 WG), DILUTED TO THE STRONGEST ALLOWABLE CONCENTRATION ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. TERMITE PROTECTION SHALL COMPLY WITH SECTION 1816 (TERMITE PROTECTION) OF THE FLORIDA BUILDING CODE (2014).
3. PER FBC 1816.1 - UPON COMPLETION OF THE APPLICATION OF THE TEMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE THE FOLLOWING STATEMENT "THE BULDING HAS RECEIVED A COMPLETE TREATEMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES".
4. INITIAL CHEMICAL SOIL TREATMENT INSIDE THE FOUNDATION PERIMETER SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING, AND COMPACTION IS COMPLETE.
5. SOIL AREA DISTURBED AFTER INITIAL CHEMICAL SOIL TREATMENT SHALL BE RETREATED WITH A CHEMICAL SOIL TREATMENT, INCLUDING SPACES BOXED OR FORMED.
6. SPACE IN CONCRETE FLOORS BOXED OUT OR FORMED FOR THE SUBSEQUENT INSTALLATION OF PLUMBING TRAPS, DRAINS, OR ANY OTHER PURPOSE SHALL BE CREATED BY USING PLASTIC OR METAL PERMANENTLY PLACED FORMS OF SUFFICIENT DEPTH TO ELIMINATE ANY PLANNED SOIL DISTURBANCE AFTER INITIAL CHEMICAL TREATMENT.
7. CHEMICALLY TREATED SOIL SHALL BE PROTECTED WITH A MINIMUM 6 MILLIMETER VAPOR RETARDER TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. ANY WORK, INCLUDING PLACEMENT OF REINFORCING STEEL, DONE AFTER CHEMICAL TREATMENT UNTIL THE CONCRETE FLOOR IS POURED, SHALL BE DONE IN SUCH MANNER AS TO AVOID PENETRATING OR DISTURBING TREATED SOIL.
8. CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO EXTERIOR CHEMICAL SOIL TREATMENT, TO ENHANCE VERTICAL PENETRATION OF THE CHEMICALS.
9. CHEMICAL SOIL TREATMENTS SHALL ALSO BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1 FOOT (305 MM) OF THE PRIMARY STRUCTURE SIDEWALLS. ALSO, A VERTICAL CHEMICAL BARRIER SHALL BE APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED, INCLUDING INITIAL LANDSCAPING AND IRRIGATION/SPRINKLER INSTALLATION. ANY SOIL DISTURBED AFTER THE CHEMICAL VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED.

TERMITE PROTECTION | G9

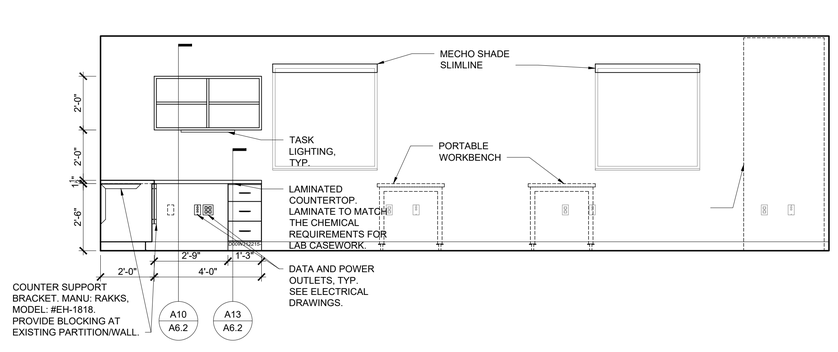


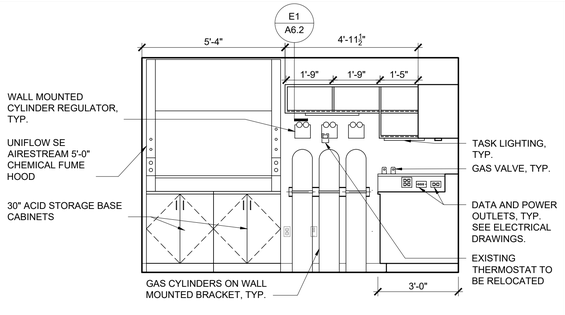
NEW SLAB TO EXISTING SLAB TIE-IN
3" = 1'-0"



WEST ELEVATION
3/8" = 1'-0"

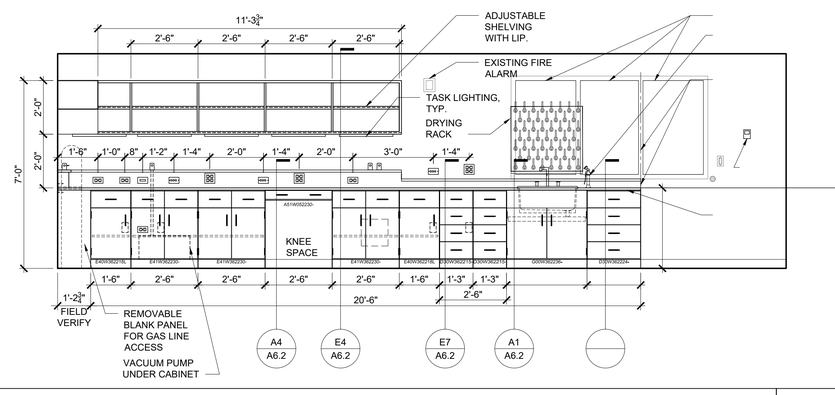
D7

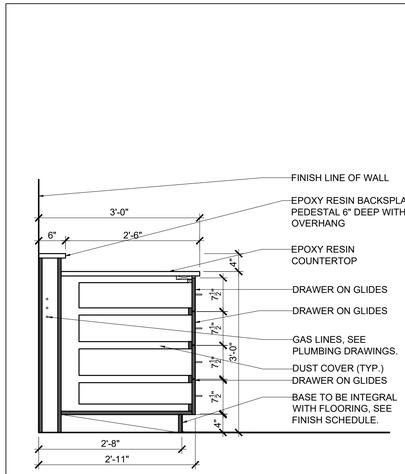




EAST ELEVATION
3/8" = 1'-0"

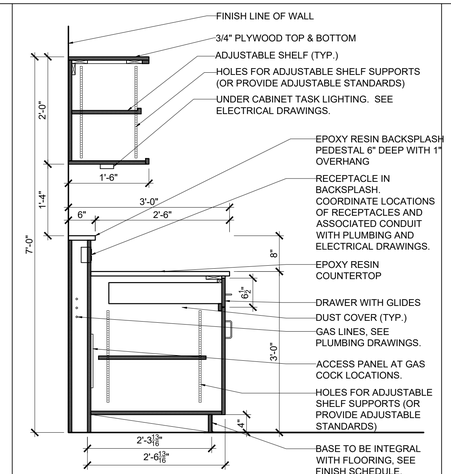
A7





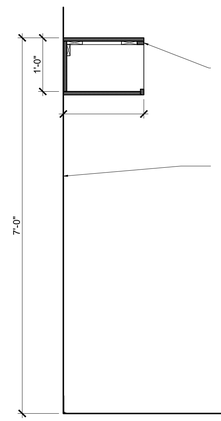
NOTE: PLASTIC LAMINATE ALL EXPOSED AND SEMI-EXPOSED SURFACES

CASEWORK SECTION E7
3/4" = 1'-0"



NOTE: PLASTIC LAMINATE ALL EXPOSED AND SEMI-EXPOSED SURFACES

CASEWORK SECTION E4
3/4" = 1'-0"



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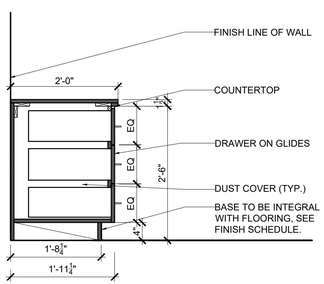
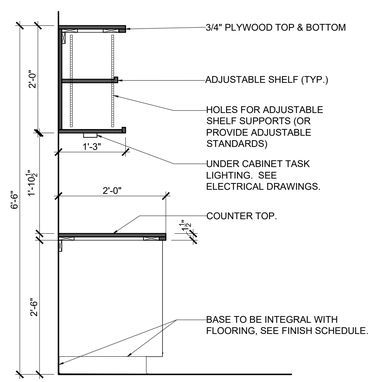


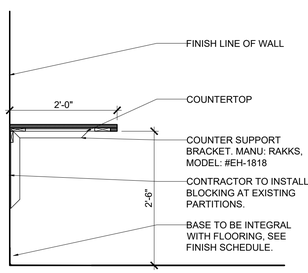
NOTE: PLASTIC LAMINATE ALL EXPOSED AND SEMI-EXPOSED SURFACES

CASEWORK SECTION A13
3/4" = 1'-0"



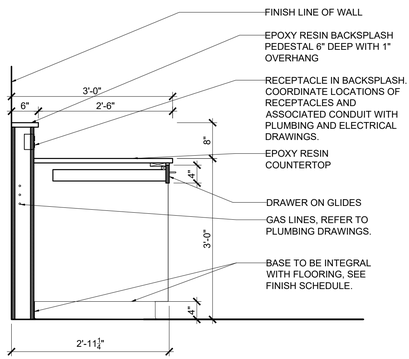
NOTE: PLASTIC LAMINATE ALL EXPOSED AND SEMI-EXPOSED SURFACES

CASEWORK SECTION A10
3/4" = 1'-0"



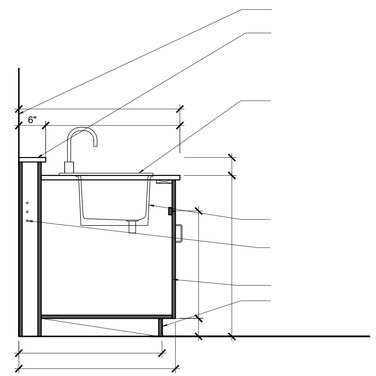
NOTE: PLASTIC LAMINATE ALL EXPOSED AND SEMI-EXPOSED SURFACES

CASEWORK SECTION A7
3/4" = 1'-0"



NOTE: PLASTIC LAMINATE ALL EXPOSED AND SEMI-EXPOSED SURFACES

CASEWORK SECTION A4
3/4" = 1'-0"



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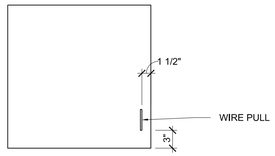
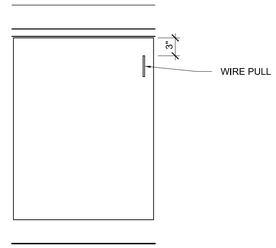
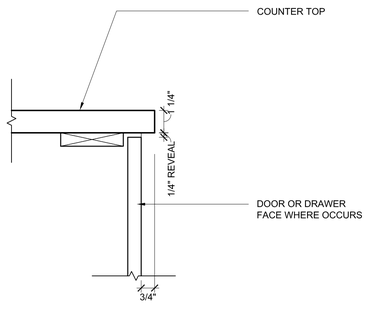


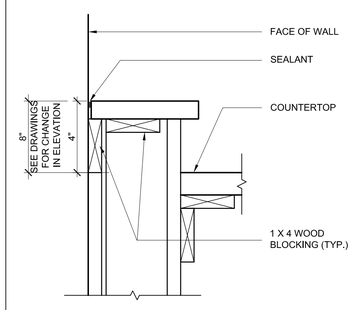
TYPICAL WALL CABINET DOOR ELEVATION DETAIL
1" = 1'-0" | G4



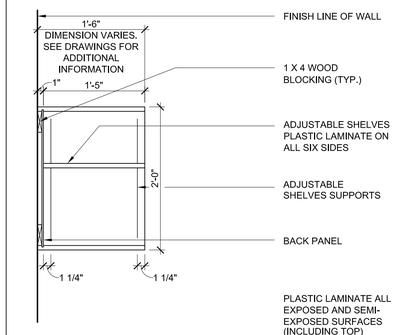
TYPICAL BASE CABINET DOOR ELEVATION DETAIL
1" = 1'-0" | G1



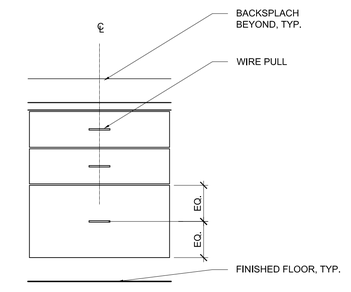
LAMINATE COUNTERTOP DETAIL
3" = 1'-0" | D10



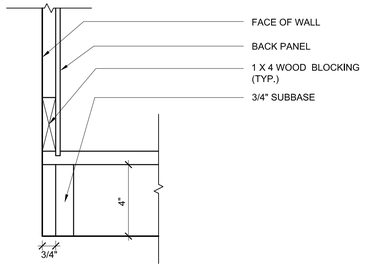
TYPICAL BACKSPLASH DETAIL
3" = 1'-0" | D7



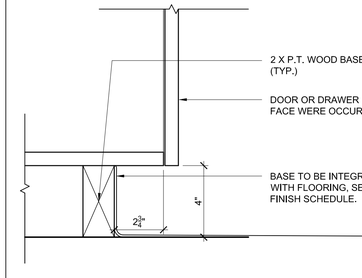
CASEWORK SECTION
1" = 1'-0" | D4



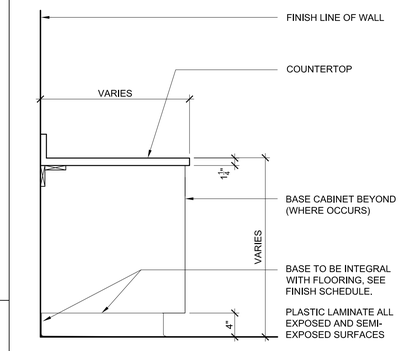
DRAWER ELEVATION DETAIL
1" = 1'-0" | D1



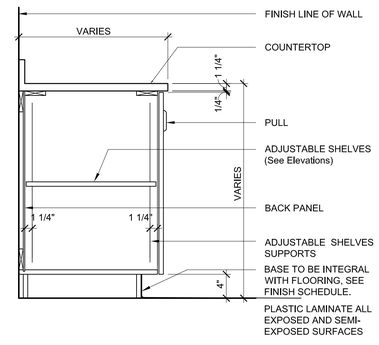
TYPICAL BASE DETAIL
3" = 1'-0" | A10



TYPICAL BASE DETAIL
3" = 1'-0" | A7



COUNTERTOP
1" = 1'-0" | A4



CASEWORK SECTION
1" = 1'-0" | A1

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08.29.17

Eric Rice, AIA
AR 92284

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

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

CASEWORK
DETAILS

A6.3

PLUMBING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW
FD1	FLOOR DRAIN 3" FLOOR DRAIN WITH TRAP PRIMER CONNECTED TO DOMESTIC COLD WATER LINE AT LAVATORY. NICKEL BRONZE TOP. 6" ROUND. CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER.	SMITH 2005-A-6"	3"	3"	1-1/2"	–	–
TP	PRESSURE DROP ACTIVATED TRAP PRIMER INSTALLED UNDER LAVATORY OR SINK, EXPOSED FOR MAINTENANCE. ALL EXPOSED PIPING TO TRAP PRIMER SHALL HAVE A CHROME FINISH.	MIFAB M-500	–	–	–	–	–

PLUMBING FIXTURE SCHEDULE

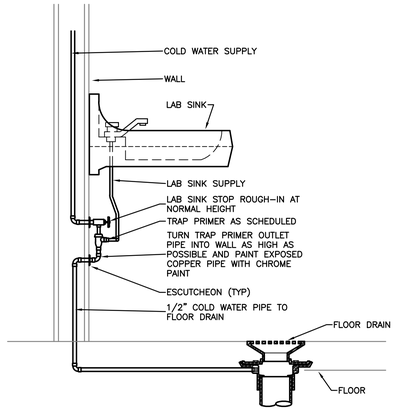
MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW	DI
P1 LAB SINK	CHEMICAL RESISTANT SINK BOWL: DROP-IN KEMRESIN 25"x15"x10". DECK MOUNTED FIXTURES. POTABLE WATER FAUCET: CHROME PLATED SOLID BRASS BODY. QUARTER TURN CERAMIC DISC CARTRIDGES AND A 6" CENTERLINE GOOSENECK SPOUT WITH VACUUM BREAKER. 4" COLOR CODED WRIST BLADE HANDLES. PROVIDE WITH STAINLESS STEEL BRAIDED HOSES FOR CONNECTION TO NEW SUPPLY STOPS. FIELD VERY CONNECTION LENGTHS BEFORE ORDERING. EMERGENCY EYE AND FACE WASH: DECK MOUNTED ABS PLASTIC PERFORATED SPRAY HEAD WITH CHROME PLATED BRASS STAY OPEN HANDLE. PROVIDE WITH 8' YELLOW REINFORCED HOSE AND BACK FLOW PREVENTER. CONNECTED TO POTABLE COLD WATER SUPPLY. DRAIN CONNECTIONS: PROVIDE ACID WASTE PIPE EQUIVALENT TO ORION BY WATTS WATER TECHNOLOGIES. PROVIDE UNDER SINK ACID TRAP AND PIPING FOR RECONNECTION TO EXISTING DRAINAGE SYSTEM. (NO HUB CONNECTION IS ACCEPTABLE) FIELD VERIFY EACH LOCATION TO MATCH EXISTING CONDITION. SUPPLY STOPS: PROVIDE NEW SUPPLY STOPS FOR EACH CONNECTION. POTABLE SUPPLY SHALL BE EQUIVALENT TO MCGUIRE HEAVY LEAD FREE STOP WITH ANGLE OR STRAIGHT CONNECTION AS REQUIRED FOR RETRO-FIT. DI WATER PIPING AND VALVES SHALL BE HIGH PURITY PIPING SCH 80 EQUIVALENT TO ORION WHITE LINE POLYPROPYLENE. RIONTITE JOINING SHALL BE ACCEPTABLE FOR NEW CONNECTIONS. PROVIDE NEW BALL VALVE SHUT OFF UNDER COUNTER FOR EACH NEW DI FAUCET INSTALLED.	KEWAUNEE KEMRESIN 1005-DI-BK ZURN Z826U4 T AND S BRASS BL-5704-08 WH4 BRADLEY S19-465 S27-303 McGUIRE 3/8" X 1/2" HEAVY LEAD FREE ORION BV	1-1/2"	TANK	2"	1/2"	1/2"	1/2"
P2 DILUTION TANK/TRAP	UNDER BENCH 2 GALLON DILUTION TANK. PROVIDE WITH A 2" CLEAN OUT. TANK SHALL BE CONSTRUCTED OF VIRGIN RESIN AND MEET ASTMD-28 FOR HIGH DENSITY POLYPROPYLENE. PROVIDE HIGH PURITY LIMESTONE CHIPS FOR EACH TANK INSTALLATION PER MANUFACTURERS' RECOMMENDATION.	ORION OF59155-200 STYLE 10 – 2 GAL HIGH PURITY LIMESTONE CHIPS	1-1/2" INLET 1-1/2" OUTLET	INT.	2" CLEAN OUT	–	–	–
P3 CUPSINK FAUCET	UNDERMOUNT CUPSINK: 3"x9" DROP-IN OVAL POLYPROPYLENE CUPSINK. IPS TAILPIECE WITH STRAINER. CUPSINK WATER FAUCET: COLD WATER REMOTE CONTROLLED 8" SWIVEL GOOSENECK WITH VACUUM BREAKER. TURRET AND GOOSENECK ARE EPOXY COATED BRASS. 1/2" NPSM SUPPLY INLET AND COUPLING NUT FOR 3/8" OR 1/3" FLEXIBLE RISER. PROVIDE WITH STAINLESS STEEL BRAIDED HOSES FOR CONNECTION TO SUPPLY STOP. FIELD VERY CONNECTION LENGTHS BEFORE ORDERING.	HEMCO 40121 HEMCO 50113-CW	1-1/2"	1-1/2"	1-1/2"	1/2"	–	–
P4 GAS CONNECTION QUICK MOUNT	COMPACT GAS DELIVERY ASSEMBLY: 30" STAINLESS STEEL FLEXIBLE PIGTAILS, WALL MOUNT BRACKET, STAINLESS STEEL STREET ELBOW FITTING, CGA CONNECTION WITH INTEGRATED CHECK VALVE, 304 STAINLESS STEEL WALL-MOUNT BRACKETS. REGULATOR PROVIDED BY OWNER.	AIRGAS Y15-QMB1	–	–	–	–	–	–

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   - A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   - B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   - C. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS 1910 AND 1926.
   - D. COMPRESSED GAS ASSOCIATION (CGA) – SAFE HANDLING OF COMPRESSED GASES.
   - E. 2011 NATIONAL ELECTRIC CODE.
2. PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS.
3. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. ALL FLOOR DRAINS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE EQUIPMENT LOCATIONS.
4. CONDITIONS SHOWN AS EXISTING ARE BASED ON AVAILABLE DATA AND SHOULD BE INTERPRETED TO BE APPROXIMATE. VERIFY EXISTING CONDITIONS IN THE FIELD.
5. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
6. COORDINATE LOCATIONS OF FLOOR DRAINS WITH THE ARCHITECTURAL DRAWINGS.
7. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE RUN IN CONCEALED SPACES.
8. WATER PIPING SHALL BE HARD DRAWN COPPER TYPE L WITH WROUGHT COPPER FITTINGS AND 95-5 SOLDER.
9. ALL SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV.
10. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE.
11. ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
12. UNLESS NOTED OTHERWISE, ALL PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A ONE YEAR PERIOD FROM DATE OF ACCEPTANCE.
13. PROVIDE ALL CUTTING REQUIRED FOR THE INSTALLATION OF PLUMBING WORK. FINISH PATCHING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER.
14. ALL SOIL AND WASTE PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT. LARGER WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
15. ALL WATER PIPING SHALL BE SUPPORTED RIGIDLY AND IN LINE FROM THE BUILDING STRUCTURE. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
16. PRIOR TO COMMENCING ANY PLUMBING ROUGH-IN, THE EXISTING SANITARY PIPING SHALL BE EXCAVATED. VERIFY THE EXACT SIZE, LOCATION, INVERT AND DIRECTION OF FLOW. NOTIFY THE ENGINEER IMMEDIATELY IF THE DRAIN IS SMALLER THAN INDICATED OR IF THE INVERT WILL NOT BE LOW ENOUGH FOR THE NEW PLUMBING ROUGH-IN. CONNECT NEW SANITARY LINES TO EXISTING SANITARY LINES AS INDICATED. PATCH THE FLOOR AS DIRECTED BY THE ARCHITECT.
17. VERIFY ALL SITE RELATED SANITARY & WATER CONNECTIONS PRIOR TO STARTING WORK. SHOULD DEPTHS BE DIFFERENT THAN THAT SHOWN HEREIN ADVISE ENGINEER IMMEDIATELY.
18. WASTE LINES RECEIVING BELOW AMBIENT TEMPERATURE CONDENSATE SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION TO GRADE.
19. ALL EXISTING LINES TO REMAIN SHALL BE VISUALLY INSPECTED AND MACHINE CLEANED.
20. REMOVE ALL UNUSED WASTE AND VENT PIPING.
21. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLUMBING LEGEND

	VENT PIPING
	WASTE PIPING BELOW FLOOR OR GRADE (SAN)
	COLD WATER PIPING (CW)
DI	DEIONIZED WATER
	HOT WATER PIPING (HW)
	PIPING UP
	PIPING DOWN
P#	PLUMBING FIXTURE IDENTIFICATION. SEE PLUMBING FIXTURE SCHEDULE
	CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING WORK
(E)	EXISTING – EXACT SIZE AND LOCATION TO BE FIELD VERIFIED.
(D)	EXISTING ITEM TO BE DEMOLISHED
(RL)	EXISTING ITEM TO BE RELOCATED
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
S	SANITARY
W	WASTE
V	VENT



TRAP PRIMER DETAIL
NOT TO SCALE

COORDINATE AND VERIFY EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS

HARRY PORTELLOS LICENSE No. 61597 STATE OF FLORIDA PROFESSIONAL ENGINEER

PLUMBING DRAWING INDEX

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Florida Engineering Business Number 6093

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

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

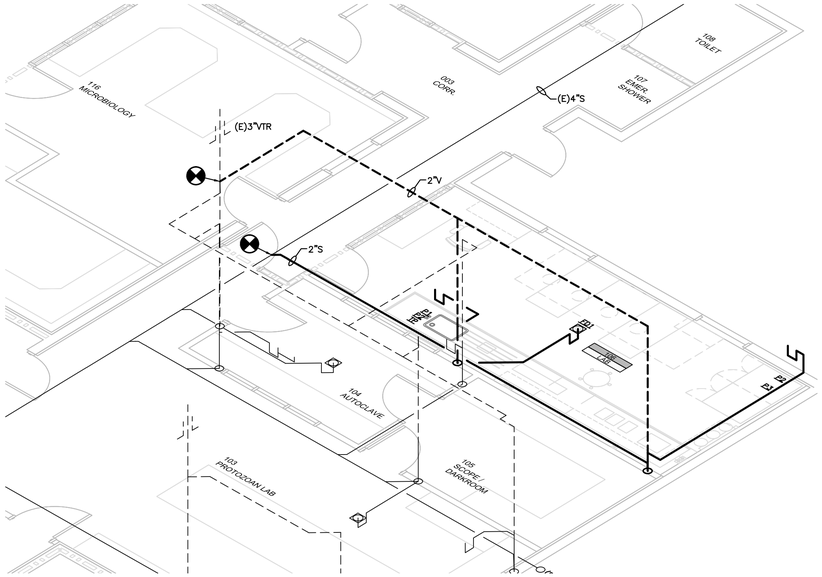
PROJECT #: 1621-00

DISTRIBUTION	DATE
100% CD	08.29.17

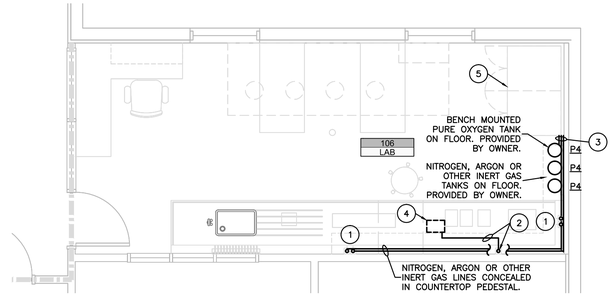
PLUMBING GENERAL NOTES, LEGEND AND FIXTURE SCHEDULES

P001

Drawing File: I:\17xxx\17009.00\117009p001.dwg P001
Plotted by: Brandon Aug 31, 2017 - 10:45am



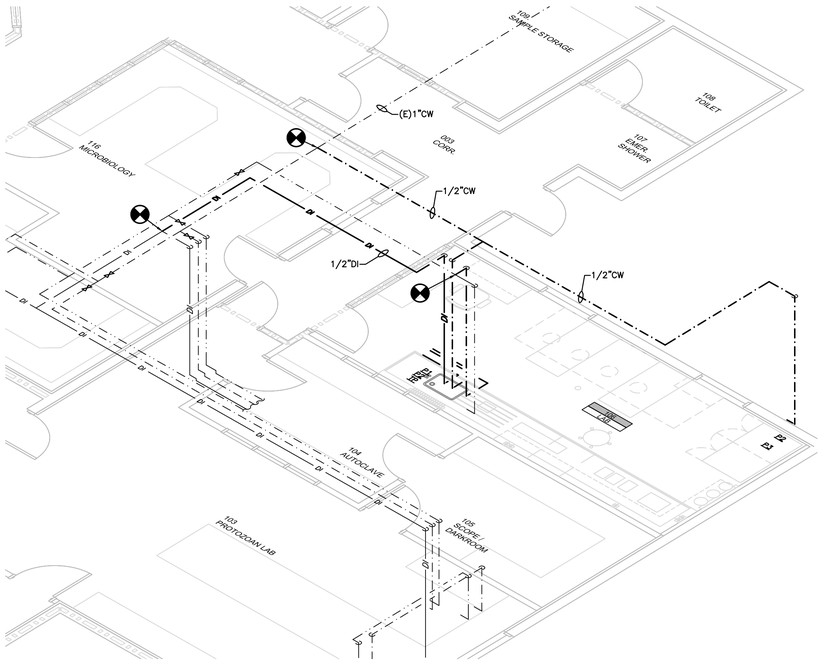
SANITARY ISOMETRIC
NOT TO SCALE | G9



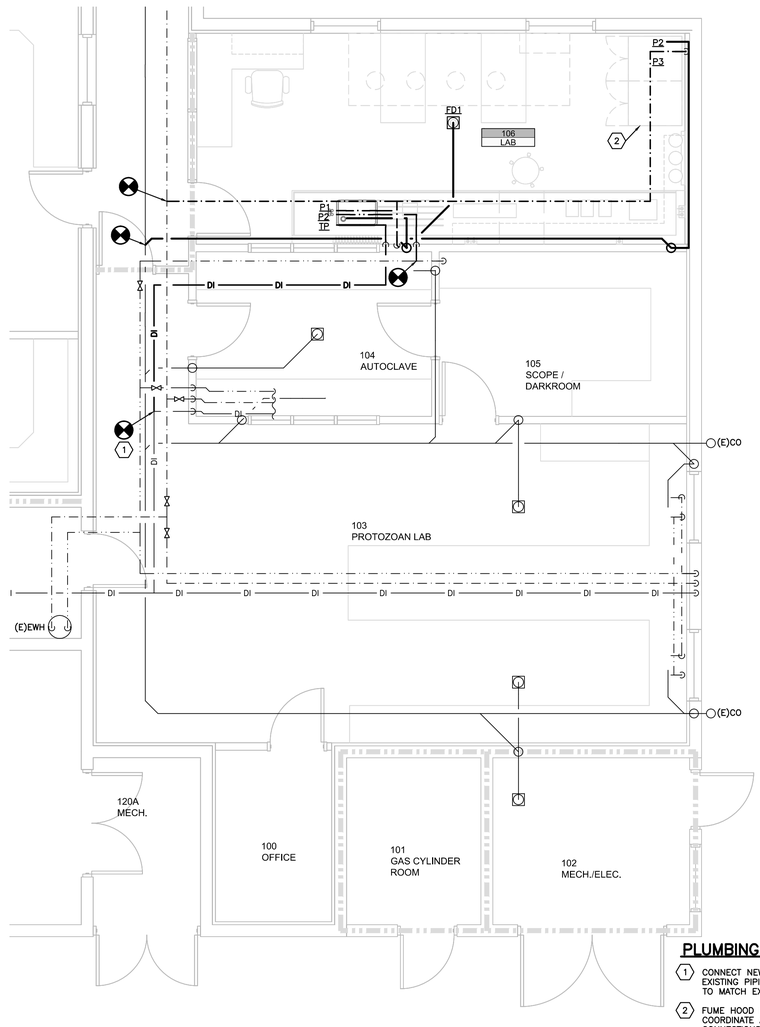
GAS PIPING NOTES:

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



DOMESTIC AND DEIONIZED WATER ISOMETRIC
NOT TO SCALE | A9



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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Florida Engineering Business Number 6093

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

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

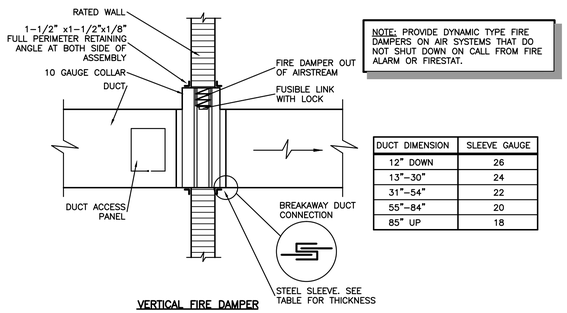
PROJECT #: 1621-00

DISTRIBUTION	DATE
100% CD	08.29.17

PLUMBING PLANS, SANITARY & DOMESTIC AND DEIONIZED WATER ISOMETRICS

P101

Drawing File: I:\17xxx\17009,001\17009p101.dwg P101
Plotted by: Brandon Aug 31, 2017 - 10:50am

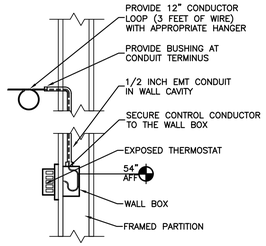


NOTE: PROVIDE DYNAMIC TYPE FIRE DAMPERS ON AIR SYSTEMS THAT DO NOT SHUT DOWN ON CALL FROM FIRE ALARM OR FIRESTAT.

DUCT DIMENSION	SLEEVE GAUGE
12" DOWN	26
13"–30"	24
31"–54"	22
55"–84"	20
85" UP	18

VERTICAL FIRE DAMPER

FIRE DAMPER DETAIL
NOT TO SCALE



ROOM THERMOSTAT IN GYPBOARD WALL
NOT TO SCALE

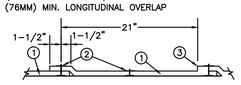
GENERAL MECHANICAL NOTES

1. ALL MECHANICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   C. 2011 NATIONAL ELECTRIC CODE
2. VERIFY, BY VISITING THE SITE, THE LOCATION OF UTILITIES IN ALL AREAS BEFORE COMMENCING WORK.
3. COORDINATE ALL WORK WITH OTHER AFFECTED TRADES. THE MECHANICAL CONTRACTOR SHALL FORWARD TO THE ELECTRICAL CONTRACTOR AN APPROVED COPY OF ALL EQUIPMENT SHOP DRAWINGS FOR ELECTRICAL POWER/CONTROL INTERFACE.
4. COVER ALL ELECTRICAL AND MECHANICAL EQUIPMENT TO PROTECT THEM FROM DUST AND DAMAGE DURING CONSTRUCTION. RESTORE ALL FACTORY PAINTED SURFACES TO NEW CONDITION, REPAIR ALL SCRATCHES, DENTS AND ABRASIONS. THOROUGHLY CLEAN ALL SURFACES OF DUST DEBRIS, AND FOREIGN MATTER. THE EQUIPMENT, WHEN TURNED OVER TO THE OWNER, SHALL BE CLEAN AND FREE OF DEFECTS.
5. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
6. ALL DUCTWORK SHALL MEET THE STANDARDS SET FORTH BY THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE FABRICATED FROM SHEET METAL. ALL ROUND DUCT SHALL BE SHEET METAL UNLESS OTHERWISE NOTED. PROVIDE TURNING VANES IN ALL 90° DUCT ELBOWS.
7. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS (FREE AREA).
8. VERIFY ALL CLEARANCES AND DIMENSIONS BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSETS TO MEET FIELD CONDITIONS. ADJUST LOCATIONS OF ALL EQUIPMENT AND DUCTWORK, AS NECESSARY TO AVOID INTERFERENCES WITH STRUCTURAL AND OTHER BUILDING COMPONENTS.
9. UNLESS NOTED OTHERWISE, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO UNDERSIDE OF STRUCTURE. COORDINATE DUCT ELEVATION WITH RAIN LEADERS, WATER PIPING, DRAINS, AND MAJOR ELECTRICAL CONDUITS AND LIGHTS. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO KEEP DUCTWORK TIGHT TO THE STRUCTURE AND MAINTAIN CEILING ELEVATIONS AS INDICATED IN THE ARCHITECTURAL DRAWINGS. DUCTWORK MAY BE FLATTENED TO A 4:1 HEIGHT RATIO MAINTAINING THE DUCT FREE AREA SIZE AS INDICATED IN THE DRAWINGS. DUCTWORK SHAPE MAY HAVE TO BE ADJUSTED (I.E. ROUND TO RECTANGULAR) AS SPACE DICTATES. MULTIPLE SMALLER RUNS MAY BE REQUIRED IN PLACE OF A SINGLE RUN. DUCT RECONFIGURATION SHALL BE INDICATED IN THE DUCT FABRICATION DRAWINGS AND FIELD VERIFIED PRIOR TO SUBMITTAL FOR ENGINEER'S REVIEW.
10. REPLACE ANY CEILING TILES OR GRID, DAMAGED DURING CONSTRUCTION IN ANY AREAS WHERE THE CEILING IS REMOVED TO EXECUTE WORK. REPLACEMENT TILES AND TEES SHALL MATCH EXISTING.
11. MAINTAIN NEGATIVE PRESSURE IN ALL DESIGNATED CONSTRUCTION AREAS.
12. ALL REQUIRED FIRE DAMPERS MAY NOT BE INDICATED HEREIN. PROVIDE FIRE DAMPERS AS REQUIRED AT RATED WALLS AND FLOORS PER FLORIDA BUILDING – MECHANICAL CODE. REFER TO ARCHITECTURAL DRAWINGS FOR RATED PARTITION LOCATIONS.
13. ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
14. ALL DUCTS THAT ARE TO BE REUSED OR EXISTING TO REMAIN SHALL BE INSPECTED AND TESTED BY THE DISTRICT'S SAFETY OFFICER FOR SUITABILITY OF REUSE. THIS EFFORT IS TO BE COORDINATED BY THE CONSTRUCTION MANAGER. REPORTS ARE TO BE FORWARDED TO THE ENGINEER OF RECORD AND THE DISTRICT'S PLANNING AND CONSTRUCTION MECHANICAL ENGINEER. DUCT CLEANING AS RECOMMENDED BY THE SAFETY OFFER'S REPORT SHALL BE PERFORMED AS DIRECTED BY THE REPORT OR AS SPECIFIED.
15. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

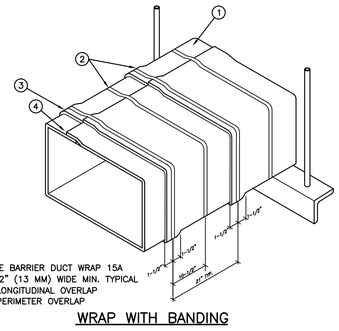
HVAC NOTES AND DETAILS | E7

FIRE WRAP DETAILS INDICATED HEREIN ARE BASED ON 3M FIRE BARRIER DUCT WRAP 15A. EQUIVALENT PRODUCTS ARE ACCEPTABLE PENDING ENGINEER'S REVIEW. MANUFACTURER'S U.L. INSTALLATION DETAILS SHALL BE SUBMITTED WITH THE PRODUCT DATA FOR SHOP DRAWING REVIEW.

1. ONE LAYER 3M FIRE BARRIER DUCT WRAP 15A
2. 1-1/2" SQUARE OR 1-1/2" DIA. GALVANIZED SPEED CLIPS TYPICAL
3. 3" (76MM) MIN. LONGITUDINAL OVERLAP



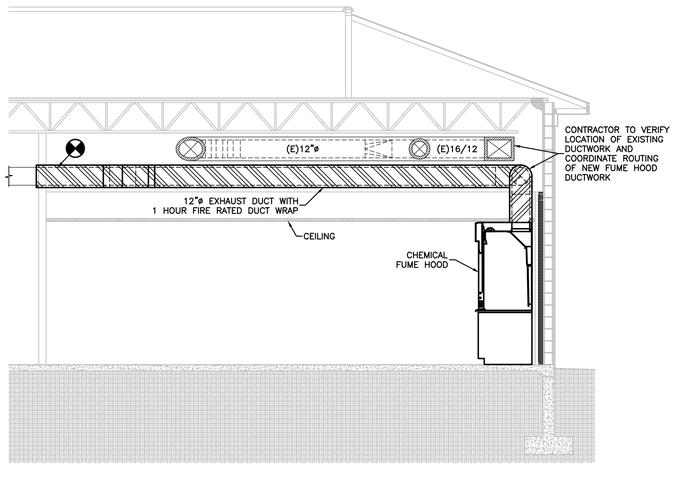
WRAP TECHNIQUE
TELESCOPING OVERLAP WRAP OPTION
CROSS SECTIONAL VIEW



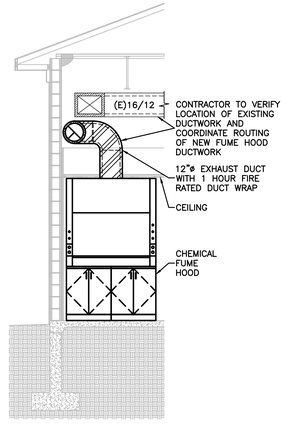
1. ONE LAYER 3M FIRE BARRIER DUCT WRAP 15A
2. STEEL BANDING 1/2" (13 MM) WIDE MIN. TYPICAL
3. 3" (76 MM) MIN. LONGITUDINAL OVERLAP
4. 3" (76 MM) MIN. PERIMETER OVERLAP

WRAP WITH BANDING

FIRE RATED WRAP DETAILS
NOT TO SCALE



HVAC SECTION | A10

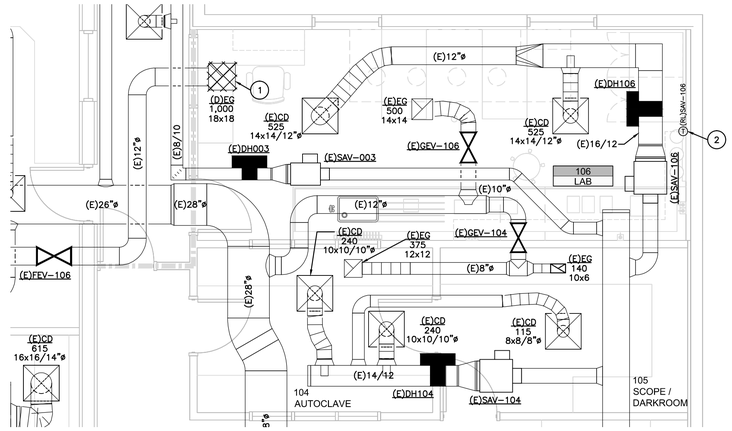


HVAC SECTION | A7

HVAC LEGEND

UP / DOWN	SUPPLY AIR DUCT (UP & DOWN)
UP / DOWN	RETURN AIR DUCT (UP & DOWN)
UP / DOWN	EXHAUST AIR DUCT (UP & DOWN)
	FIRE DAMPER – REFER TO DETAIL
100 / 100	AT CONTRACTOR'S OPTION: FIRE DAMPER OR DUCT WITH 24 GAUGE PER 100 SQ. INCH EXCEPTION IN THE MECHANICAL CODE. PROVIDE 12" LONG STEEL SLEEVE AT PENETRATION OF THE RATED WALL AND PACK VOID WITH MINERAL WOOL (SEE FBC/MECHANICAL 607.5.3.6.)
(E)	EXISTING – FIELD VERIFY EXACT SIZE AND LOCATION
(D) OR -X--X-	EXISTING TO BE DEMOLISHED
(RL)	EXISTING ITEM TO BE RELOCATED
	CONNECT NEW TO EXISTING
	REMOVE ALL HATCHED MECHANICAL ITEMS
	1 HOUR FIRE RATED DUCT WRAP

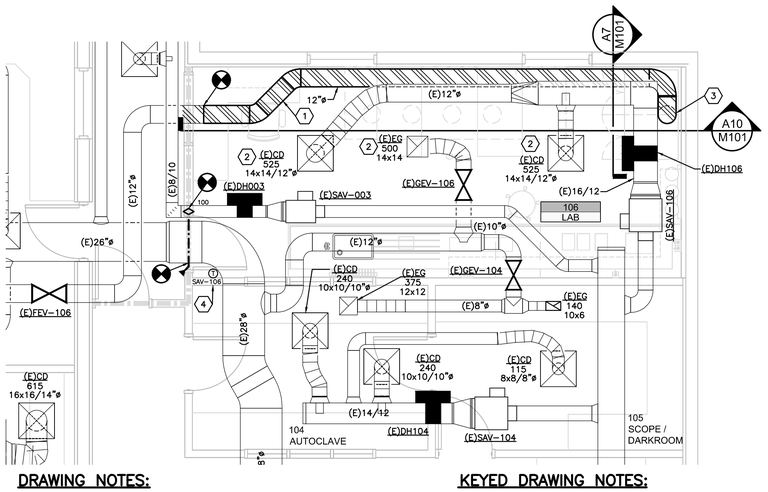
HVAC LEGEND | K1



DEMOLITION NOTES:

1. DEMOLISH (E) EXHAUST GRILLE.
2. RELOCATE (E) THERMOSTAT.

HVAC DEMOLITION PLAN
1/4" = 1'-0" | F1



DRAWING NOTES:

1. THE EXISTING LAB EXHAUST SYSTEM IS PHOENIX CONTROLS AND STROBIC AIR. COORDINATE ANY MODIFICATIONS, ADJUSTMENTS OR AIR BALANCING WITH LOCAL MANUFACTURER'S REPRESENTATIVE, FLOW CONTROL TECHNOLOGY (813) 623-3444.

KEYED DRAWING NOTES:

1. PROVIDE 1 HOUR FIRE RATED DUCT WRAP ON NEW DUCTWORK AS INDICATED BY HATCH PATTERN. REFER TO DETAIL.
2. RE-BALANCE AIR FLOWS TO VALUES INDICATED ON PLAN.
3. BALANCE TO 1,000 CFM MAXIMUM AND 250 CFM MINIMUM.
4. NEW LOCATION FOR (E) THERMOSTAT.

HARRY PORTELLOS LICENSE No. 61597 STATE OF FLORIDA PROFESSIONAL ENGINEER

HVAC DRAWING INDEX

M101	HVAC FLOOR PLANS, LEGEND, NOTES, DETAILS AND SECTIONS

HVAC 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

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	
DISTRIBUTION	DATE
100% CD	08.29.17

HVAC FLOOR PLANS, LEGEND, NOTES, DETAILS AND SECTIONS

M101

Drawing File: I:\17xxx\17009\00\17009sm101.dwg M101
Plotted by: Brandon Aug 31, 2017 - 10:51am

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	VOLTS	LAMP	BALLAST	MOUNTING
A	LED UNDER CABINET LUMINAIRE. EXTRUDED MARINE GRADE ALUMINUM WITH HEALTHCARE SOLID FRONT, ANTIMICROBIAL FINISH AND ROCKER SWITCH. KENALL #MAUCLED–S–MW–1120K–xx–120–SW (LENGTH AS REQUIRED), OR APPROVED EQUIVALENT. PROVIDE INTERCONNECT CORDSET (#ICD1) AS NECESSARY.	120	11W–LED 4000K	LED DRIVER	UNDER CABINET

NOTES:
1. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING AND REVIEWED FOR PRIOR APPROVAL. ACCEPTABLE SUBSTITUTIONS SHALL BE ISSUED BY OFFICIAL ADDENDUM.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED ABOVE CEILING OR BEHIND FINISHED WALL	N/A
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED BELOW FINISHED FLOOR OR UNDERGROUND.	N/A
	RACEWAY EXPOSED ON WALL OR CEILING	N/A
LA–1,3,5 EG IG	HOMERUN TO PANELBOARD – LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT, MINIMUM 3/4" CONDUIT. NOTE: ANY HOMERUN WITHOUT FURTHER DESIGNATION INDICATES TWO #12 AWG AND #12 AWG EQUIPMENT GROUND. PC OUTLET REQUIRES SEPARATE NEUTRAL, MIN. #10 AWG. DEDICATED CIRCUIT REQUIRES SEPARATE NEUTRAL	N/A
UP DOWN	RACEWAY RISER, UP OR DOWN AS NOTED	N/A
	CONDUIT CAPPED	N/A
A 1 a, B	LED OR FLUORESCENT LUMINAIRE, LETTER INDICATES TYPE. 1 = CKT. NO., a = SWITCH DESIGNATION, NL = NIGHT LIGHT	AS NOTED
X X	EXIT LIGHT, LETTER INDICATES TYPE. SINGLE OR DUAL FACED AS INDICATED ON DRAWINGS	CEILING MOUNTED
VS	VACANCY SENSOR CEILING MOUNTED, DUAL TECHNOLOGY. SUBMIT SENSOR MANUFACTURER'S LAYOUT DRAWINGS FOR APPROVAL. SENSOR SWITCH CM–PDT–10 OR APPROVED EQUIVALENT. PROVIDE WIDER RANGE DEVICES WHEN NECESSARY.	CEILING MOUNTED
$	SINGLE POLE SWITCH	M.H. 48" AFF TO TOP
$3	THREE WAY SWITCH	M.H. 48" AFF TO TOP
$4	FOUR WAY SWITCH	M.H. 48" AFF TO TOP
$M	MOTOR/HP RATED TOGGLE SWITCH SIZED PER MOTOR MANUFACTURER'S RECOMMENDATION, MINIMUM 20 AMP.	SURFACE, ADJACENT TO OR ON MOTOR
a	LIGHTING CONTROL WALL SWITCH WITH 0–10V DIMMING CONTROL. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH SPODM–D, OR APPROVED EQUAL.	M.H. 48" AFF TO TOP
a 3	THREE WAY LIGHTING CONTROL WALL SWITCH WITH 0–10V DIMMING CONTROL. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH SPODM–D–3X, OR APPROVED EQUAL.	M.H. 48" AFF TO TOP
a	LIGHTING CONTROL WALL SWITCH. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH #SPODM–SA, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
a 3	THREE WAY LIGHTING CONTROL WALL SWITCH. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH #SPODM–SA–3X, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
VS	WALL SWITCH VACANCY SENSOR. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH #WSD–PDT–SA, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
	SINGLE RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
WP GFI	DUPLEX RECEPTACLE – 120VAC, "WP" DENOTES WEATHERPROOF "GFI" DENOTES GROUND FAULT PROTECTION.	M.H. 16" AFF TO BOTTOM
	DUPLEX RECEPTACLE CONTROLLED VIA REMOTE SWITCH– 120VAC	M.H. 16" AFF TO BOTTOM
	DUPLEX RECEPTACLE – 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
	DOUBLE DUPLEX RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
	DOUBLE DUPLEX RECEPTACLE – 120VAC	M.H. 42" AFF TO BOTTOM
3	4"x4"x2–1/8" DEEP OUTLET BOX FOR COMMUNICATIONS WITH 1" CONDUIT WITH BUSHING STUBBED INTO CEILING SPACE. VOICE AND DATA CABLING AND OUTLETS/JACKS ARE BY OWNER. PROVIDE BLANK COVERPLATE FOR UNUSED BOXES. "#" = PROPOSED NUMBER OF PORTS.	M.H. 16" AFF TO BOTTOM OR AS NOTED
	120/208V. PANELBOARD	M.H. 6'–0" TO TOP OR AS NOTED
	NON–FUSIBLE SAFETY SWITCH	M.H. 6'–0" TO TOP OR AS NOTED
	FUSIBLE SAFETY SWITCH	M.H. 6'–0" TO TOP OR AS NOTED
	COMBINATION FUSED DISCONNECT/MOTOR STARTER	AS NOTED
	MAGNETIC MOTOR STARTER	AS NOTED
J J	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
	MOTOR CONNECTION	AS NOTED

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

ELECTRICAL LEGEND (EXISTING DEVICES)

SYMBOL	DESCRIPTION	MOUNTING
	EXISTING FLUORESCENT LUMINAIRE	CEILING MOUNTED
	EXISTING INCANDESCENT, FLUORESCENT LUMINAIRE	CEILING MOUNTED
	EXISTING LOCATION FOR DUPLEX RECEPTACLE– 120VAC	M.H. 16"/24" AFF TO BOTTOM
	EXISTING LOCATION FOR DUPLEX RECEPTACLE– 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
P C	EXISTING POWER POLE	
$	EXISTING SINGLE POLE SWITCH	M.H. 48" AFF TO TOP
$3	EXISTING THREE WAY SWITCH	M.H. 48" AFF TO TOP
F S	EXISTING/REINSTALLED FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
F H	EXISTING/REINSTALLED FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
F	EXISTING/REINSTALLED FIRE ALARM PULL STATION	WALL MOUNTED
F H	EXISTING/REINSTALLED FIRE ALARM INDICATION APPLIANCE	WALL MOUNTED
	EXISTING PANEL LOCATION	WALL MOUNTED
	EXISTING DATA DEVICES LOCATION WA DENOTES EXISTING WIRELESS ACCESS POINT TO REMAIN	WALL MOUNTED
	EXISTING TELEPHONE OUTLET LOCATION	WALL MOUNTED
	EXISTING DISCONNECT LOCATION	WALL MOUNTED

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS. ALL DEVICES SHOWN AS EXISTING, ARE TO REMAIN UNLESS OTHERWISE NOTED

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	GWB	GYPSUM WALL BOARD
AFG	ABOVE FINISHED GRADE	H.D.	HAND DRYER
E	EXISTING	INT	INTERCOM/PAGING CABINET
ETR	EXISTING TO REMAIN	MTG	MOUNTING
EWC	ELECTRIC WATER COOLER	MTD	MOUNTED
EWH	ELECTRIC WATER HEATER	M.H.	MOUNTING HEIGHT
EG	EQUIPMENT GROUND	N/A	NOT APPLICABLE
ESB	ENERGY SAVING BALLAST	PROJ	PROJECTOR LOCATION
EXP	EXPLOSION PROOF	U.O.N.	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	R	REMOVE
FATC	FIRE ALARM TERMINAL CABINET	RL	RELOCATED
GFI	GROUND FAULT PROTECTION	WP	WEATHER PROOF
G, GND	GROUND		

ELECTRICAL GENERAL NOTES:
(THESE NOTES APPLY TO ALL SHEETS)

1. ALL ELECTRICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   C. 2011 NATIONAL ELECTRIC CODE
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK INVOLVED.
3. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. IN GENERAL, THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. ELECTRICAL INSTALLATION SHALL BE CLOSELY COORDINATED WITH ALL OTHER TRADES. REVIEW THE ENTIRE SET OF DOCUMENTS FOR COORDINATION. NO COST SHALL BE ASSOCIATED WITH ILL–TIMED INSTALLATION INCLUDING ANY REPAIRS OR REPLACEMENTS.
6. ALL CONDUITS AND BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT RUNS ARE SCHEMATIC IN NATURE. EXACT ROUTING TO BE DETERMINED IN THE FIELD UNLESS OTHERWISE NOTED.
7. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION.
8. PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH–IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
9. ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN/THWN, MINIMUM #12 AWG. ALL CONDUCTORS SHALL BE IN CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO A MAXIMUM OF 6'–0" IN LENGTH.
10. MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED UNLESS APPROVED BY THE OWNER AND ENGINEER.
11. ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
12. ALL RECEPTACLES SHALL HAVE A GROUND TERMINAL.
13. WHEN REUSING OR EXTENDING EXISTING CIRCUITS, VERIFY ALL CIRCUIT NUMBERS AND VERIFY ANY EXISTING LOAD. CIRCUITS MAY BE PICKED UP AT AN EXISTING JUNCTION BOX IF AVAILABLE RATHER THAN PROVIDING A SEPARATE HOMERUN TO A PANEL.
14. RECESSED LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE AT (4) POINTS. DO NOT SUPPORT FIXTURES FROM THE CEILING GRID, MECHANICAL PIPING, DUCTWORK, CONDUIT OR OTHER NON–STRUCTURAL BUILDING MEMBERS. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR INSTALLATION.
15. THE COLOR OF ALL RECEPTACLES, TOGGLE SWITCHES AND COVERPLATES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING.
16. PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
17. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
18. PROVIDE HANDLE TIES FOR 2 OR MORE SINGLE POLE WITH SHARED NEUTRALS TO COMPLY WITH NEC 210.4 (B)
19. SEE SPECIFICATIONS FOR MORE REQUIREMENTS.

ELECTRICAL DRAWING INDEX

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ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE

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

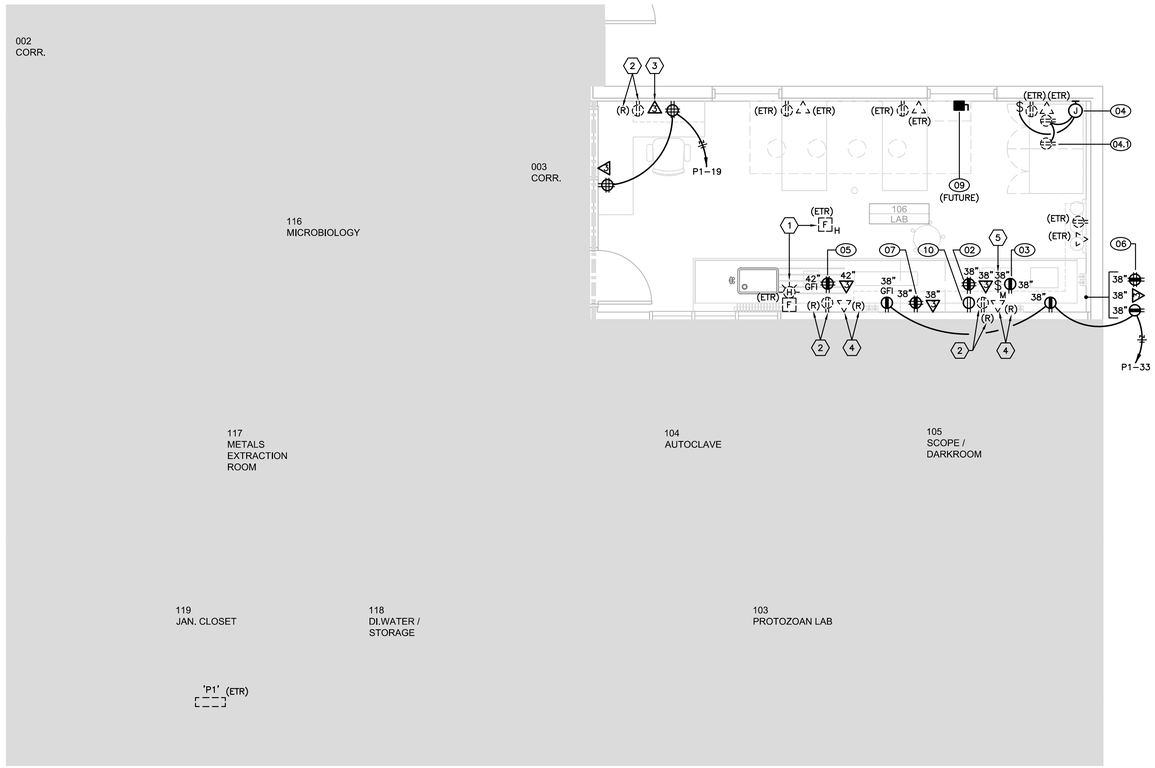
PROJECT #: 1621-00

DISTRIBUTION	DATE
100% CD	08.29.17

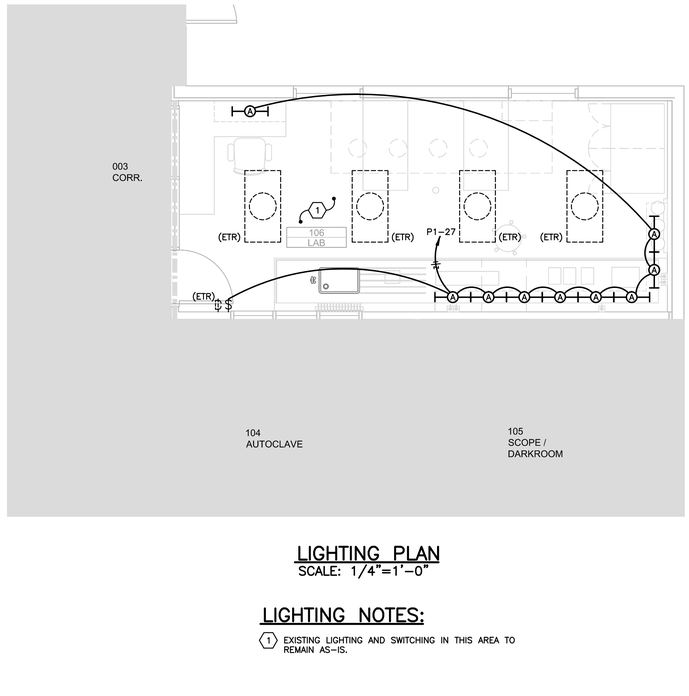
ELECTRICAL LEGEND AND GENERAL NOTES

E001

Drawing File: I:\17xxx\17009.001\17009e001.dwg E001
Plotted by: Brandon Aug 31, 2017 - 10:54am



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



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

LIGHTING NOTES:

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

POWER GENERAL NOTES:

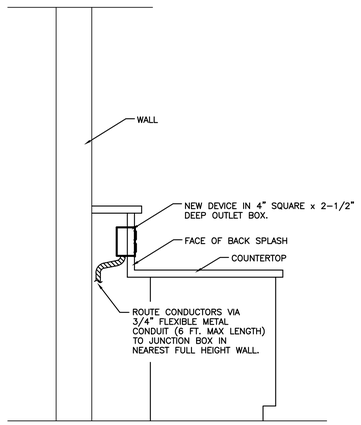
1. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES WITH ARCHITECTURAL DIMENSION PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
2. ALL NEW RECEPTACLE AND DATA OUTLETS TO BE MOUNTED HORIZONTALLY.
3. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON THIS SHEET FOR ELECTRICAL REQUIREMENTS OF 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 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 DEVICE 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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ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE

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

DISTRIBUTION	DATE
100% CD	08.29.17

ELECTRICAL PLANS
AND SCHEDULES

E101

Drawing File: I:\17xxx\17009.00\17009e101.dwg E101
Plotted by: Brandon Aug 31, 2017 - 10:54am

EXISTING PANEL

PANEL: P1
AIC RATING: EXIST AMPS
SERVICE: 120/208 V.,
3PH,4W
MLO: 0 AMPS
MCB: 100 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	REC; NE HVAC	0.7	20	1				2	20	0.7	REC; GAS CYLINDER	E
E	REC; HALLWAY	0.9	20	3				4	20	0.7	REC; JAN CLOSET	E
E	REC; JAN CLOSET	0.2	20	5				6	2P	0	SPARE	E
E	SPARE	0	2P	7				8	30	0	SPARE	E
E	SPARE	0	30	9				10	3P	0	SPARE	E
E	SPARE	0	3P	11				12	20	0	SPARE	E
E	SPARE	0	50	13				14	"	0	SPARE	E
E	SPARE	0	"	15				16	70	0	SPARE	E
D	EQ; FILTRATION PILOT PLANT	2.0	30	17				18	20	1.2	EQ; CHEM. FUME HOOD	R
D	REC; WORK STATION LAB 106	0.7	20	19				20	20	0.2	EQ; OZONE GENERATOR	R
E	LTG; NORTH HALLWAY	1.0	20	21				22	20	1.0	LTG; NE EXIT	E
E	LTG; NE HVAC/MECH	1.0	20	23				24	20	1.0	LTG; JAN CLOSET	E
E	LTG; GAS CYLINDER STOR	1.0	20	25				26	20	1.2	EQ; COMPACT OVEN	R
R	LTG; LAB 106	0.1	20	27				28	20	0.12	EQ; JAR TESTER	R
R	EQ; STIRRER	0.06	20	29				30	20	1.2	EQ; VACUUM PUMP	R
R	EQ; STIRRING HOT PLATE	1.1	20	31				32	40	0	SPARE	E
R	REC; GENERAL PURPOSE	0.5	20	33				34	40	0	SPARE	E
E	EQ; FACP	0.3	20	35				36	20	0.3	EQ; PERISTALTIC PUMP	R

A PH = 5.60 B PH = 4.32 C PH = 7.26

SERVES	CONN LOAD		FACTOR		FEED		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					17.53					
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:

1. FIELD VERIFY CONNECTION REQUIREMENTS OF ACTUAL EQUIPMENT SUPPLIED PRIOR TO PURCHASE/ROUGH-IN OF ELECTRICAL CONNECTION DEVICE OR EQUIPMENT.
2. FIELD VERIFY MANUFACTURER'S RECOMMENDED OVERCURRENT PROTECTION DEVICE SIZE AND PROVIDE CIRCUIT AND BREAKER ACCORDINGLY.
3. 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.
4. PROVIDE A SEPARATE 120V CONNECTION AND FIELD WIRING OF OWNER PROVIDED OZONE GENERATOR ASSOCIATED WITH FUME HOOD.
5. PROVIDE CORD/PLUG FOR UNIT.
6. 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.
7. PLUGS INTO RECEPTACLE ON THE FUME HOOD.

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ELECTRICAL SCHEDULES

E201

Drawing File: I:\17xxx\17009.001\17009e201.dwg E201
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