

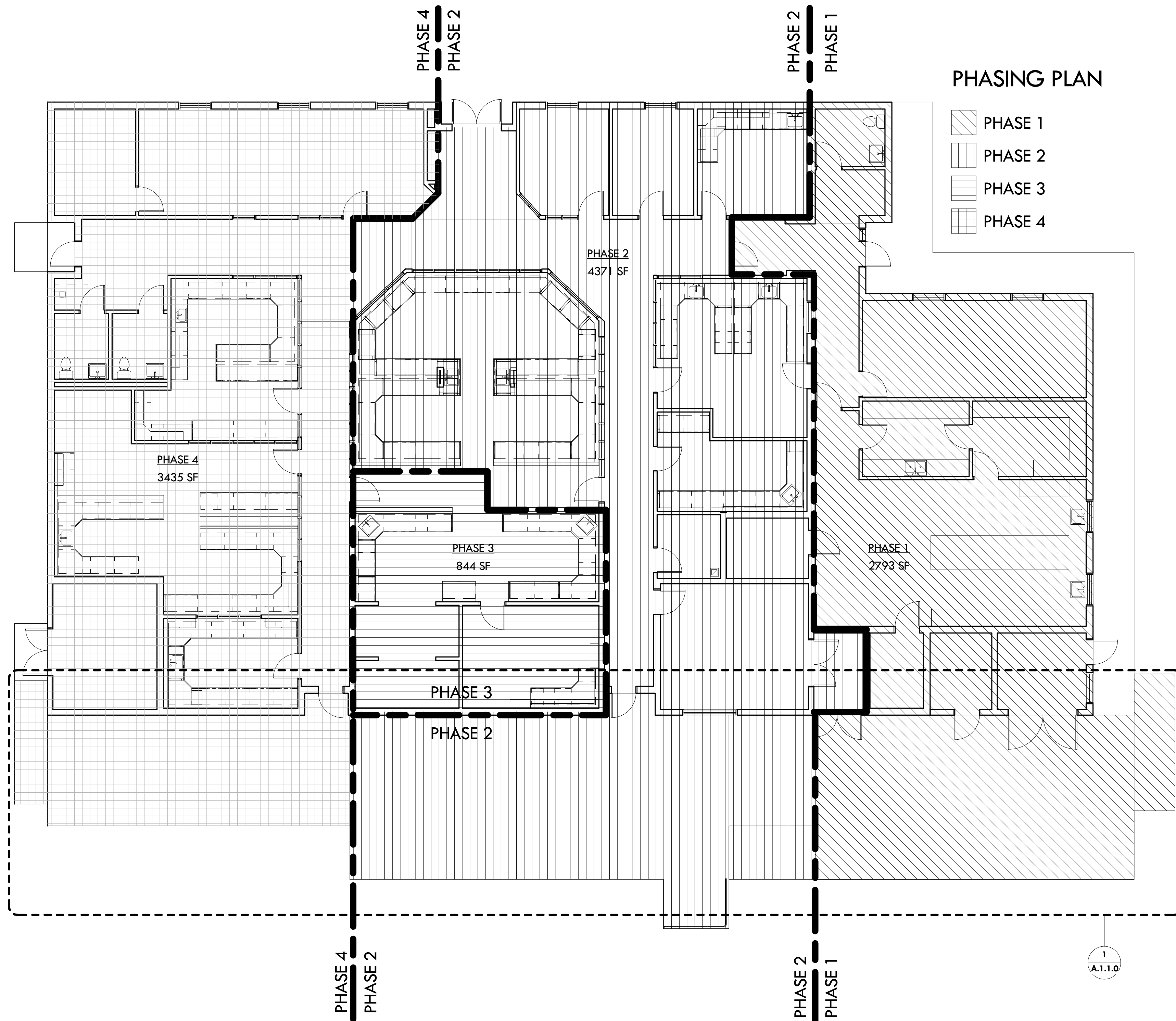
The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

[MailTo:ContractAdministration@TampaGov.net](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



1 PHASING PLAN
1/8" = 1'-0"

PHASING NOTES

TOTAL PROJECT TIME PERIOD
THE TIME PERIOD FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION OF THE FINAL PHASE SHALL BE 345 DAYS.

a. 51 DAYS = SHOP DRAWING REVIEW AND MOBILIZATION
b. 84 DAYS = EQUIPMENT DELIVERY
c. 210 DAYS = CONSTRUCTION
TOTAL=345 DAYS

60 DAYS = FINAL COMPLETION AND PROJECT CLOSEOUT.

TOTAL PROJECT TIME PERIOD FROM NOTICE TO PROCEED TO FINAL COMPLETION SHALL BE 405 DAYS. SEE PHASING PLAN BELOW FOR A DETAILED BREAKDOWN OF THE ALLOWABLE TIME PERIOD OR EACH PHASE OF CONSTRUCTION.

PHASING PLAN

THE CONSTRUCTION SHALL BE REQUIRED TO BE IMPLEMENTED IN A PHASED MANNER THAT ALLOWS THE OWNER TO CONTINUE TO OCCUPY THE BUILDING AND PERFORM OPERATIONS. THE FOLLOWING PROPOSED PHASING APPROACH IS INTENDED TO OUTLINE THE GENERAL REQUIREMENTS OF THE PHASED WORK, THE GENERAL DEMARCATION OF THE PHASING ZONES, THE NUMBER OF PHASES, THE TIME PERIOD ALLOWED, AND OTHER RESTRICTIONS AND REQUIREMENTS. THIS PHASING OUTLINE IS NOT INTENDED TO DICTATE THE CONTRACTOR'S MEANS AND METHODS FOR IMPLEMENTING THE WORK. REFER TO THE DRAWINGS FOR THE PHASING DEMARCATION LINES AND OTHER REQUIREMENTS. THIS WILL BE AN OCCUPIED, OPERATIONAL BUILDING DURING CONSTRUCTION. PLAN ACCORDINGLY.

PHASE 1

- ALL ITEMS EXCEPT AS NOTED BELOW WITH UTILITY SERVICES, SUCH AS WATER, ELECTRICAL, TELECOMMUNICATIONS, DI WATER, GASES, ETC., SHALL BE DISCONNECTED BY THE CONTRACTOR AND PREPARED FOR MOVING. THE FOLLOWING ITEMS AND EQUIPMENT SHALL BE DISCONNECTED AND PREPARED FOR MOVING BY THE OWNER.
 - BALANCES, PH METERS, TURBID METER, OVENS: VARIOUS LOCATIONS
 - PERKIN ELMER FIMS 100; METALS LAB 115
 - DIONEX ICS 3000; GENERAL CHEMISTRY 123
 - DIONEX ICS 3000; GENERAL CHEMISTRY 123
 - DIONEX ICS 3500; ORGANICS LABORATORY 124
 - AGILENT (VARIAN) LC/MS/MS; ORGANICS LABORATORY 124
 - AGILENT (VARIAN) LC/MS/MS; ORGANICS LABORATORY 124
 - AQUAMATE SPEC; GENERAL CHEMISTRY 123
 - JAR TEST APPARATUS; GENERAL CHEMISTRY 123
 - FUSION TOC INSTRUMENT; GENERAL CHEMISTRY 123

THE CONTRACTOR SHALL MOVE ALL ITEMS AND EQUIPMENT OUT OF THE SPACES INTO OTHER AREAS FOR THEIR USE OR TO STORAGE CONTAINER AS REQUIRED. CONTRACTOR SHALL NOTIFY THE LAB MANAGER 30 DAYS PRIOR TO COMMENCEMENT OF PHASE WORK.

- THE CONTRACTOR SHALL PROVIDE AN ON-SITE STORAGE CONTAINER. LOCATION WILL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL MOVE AND STORE ALL OF THE OWNER'S PACKED AND BOXED ITEMS AND OTHER EQUIPMENT INTO AN ON-SITE STORAGE CONTAINER. THE MOVING AND STORING SHALL BE PERFORMED BY A PROFESSIONAL CERTIFIED, LICENSED, AND BONDED MOVING COMPANY. THE STORAGE CONTAINER WILL NOT BE REQUIRED TO BE AIR CONDITIONED.
- THE CONTRACTOR SHALL PUT UP NOISE AND DUST BARRIERS TO SEPARATE THE OWNER'S OCCUPIED AREAS FROM THE CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL COMMENCE DEMOLITION OF THE CEILINGS, LIGHTING, DUCTWORK, HVAC EQUIPMENT, CABINETS (WHERE APPLICABLE), ETC. CARE AND CAUTION SHALL BE TAKEN DURING DEMOLITION TO ENSURE THE FOLLOWING:
 - MEANS OF EGRESS IS MAINTAINED FOR THE OCCUPIED AREAS.
 - ELECTRICAL POWER SHALL REMAIN IN OPERATION IN OCCUPIED AREAS, EXCEPT FOR ANY REQUIRED PRIOR APPROVED AND SCHEDULED OUTAGES. A SCHEDULED OUTAGE WILL BE REQUIRED TO PROVIDE THE NEW SERVICE AND NEW PANEL WDP. THIS OUTAGE WILL BE REQUIRED TO BE PERFORMED OVER A WEEKEND.
 - POWER WILL BE REQUIRED TO REMAIN ON FOR LIGHTING AND ALL BRANCH CIRCUITS TO THE AREAS OUTSIDE THE CONSTRUCTION ZONE. PROVIDE TEMPORARY RE-ROUTING OF ELECTRICAL CIRCUITS AS NECESSARY. EMERGENCY LIGHTING SHALL REMAIN OPERATIONAL. REFER TO SECTION 16050 FOR MORE REQUIREMENTS.
 - TELECOMMUNICATIONS SERVICES SHALL REMAIN IN OPERATION IN OCCUPIED AREAS. ALL VOICE AND DATA CABLING SHALL BE PROTECTED. REFER TO SECTION 16050 FOR MORE REQUIREMENTS.
 - THE NEW FIRE ALARM CONTROL PANEL SHALL BE INSTALLED DURING PHASE 1 AND CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL FOR MONITORING. SEE SECTION 16721 FOR MORE REQUIREMENTS. THERE SHALL BE AN OPERATIONAL AND FUNCTIONAL FIRE ALARM SYSTEM IN ALL OCCUPIED AREAS AT ALL TIMES.
 - ALL EXISTING HVAC SYSTEMS, INCLUDING AIR HANDLERS, FLUME HOOD EXHAUST, GENERAL EXHAUST, AND CONTROLS, SHALL REMAIN OPERATIONAL IN THE PHASE 2, 3, AND 4 AREAS.
 - ALL EXISTING WATER AND SANITARY SEWER SYSTEMS SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION IN THE PHASE 2, 3, AND 4 AREAS.
- INSTALL ALL NEW WORK SCHEDULED AND INDICATED IN THE CONTRACT DOCUMENTS, AND AS REQUIRED FOR THE COMPLETION OF THIS PHASE, INCLUDING TEST AND BALANCE OF ALL AREAS, OTHER REQUIRED TESTING, PAINTING, AND CLEAN-UP.
- SCHEDULE AND PASS A SUBSTANTIAL COMPLETION INSPECTION PRIOR TO STARTING TO THE NEXT PHASE OF WORK.
- MOVE ALL BOXES FROM STORAGE BACK INTO THIS AREA. THE OWNER WILL UN-PACK AND MOVE BACK INTO THE SPACE.
- WARRANTY PERIODS SHALL NOT COMMENCE UNTIL ALL PHASES ARE COMPLETE.
- THIS PHASE SHALL BE COMPLETE IN 60 DAYS.

PHASE 2

- REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING WATER AND SEWER SYSTEMS IN PHASE 1, 3 & 4 SHALL REMAIN OPERATIONAL, AND PROTECTED DURING CONSTRUCTION. THE EXISTING HVAC SYSTEMS IN PHASE 1 AND 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.
- PROVIDE TEMPORARY AIR CONDITIONING FOR THE PHASE 3 AREA.
- PROVIDE FOR ELECTRICAL CIRCUITS THAT WILL NEED TO EXTEND FROM PHASE 2 INTO PHASE 3 AND 4 SUCH THAT THE DISRUPTION TO THE PHASE 2 AREA IS MINIMAL DURING THE CONSTRUCTION OF PHASE 3 AND 4.
- PROVIDE FOR HVAC SYSTEMS EXTENSION INTO PHASE 3 AND 4 SUCH THAT THE DISRUPTION TO THE PHASE 2 AREA IS MINIMAL DURING THE CONSTRUCTION OF PHASE 3 AND 4.
- THIS PHASE SHALL BE COMPLETED IN 60 DAYS.

PHASE 3

- REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING HVAC, WATER AND SEWER SYSTEMS IN PHASE 1, 2 & 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.
- THIS PHASE SHALL BE COMPLETED IN 30 DAYS.

PHASE 4

- REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING HVAC, WATER AND SEWER SYSTEMS IN PHASE 1, 2 & 3 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.
- THIS PHASE SHALL BE COMPLETED IN 60 DAYS.

A. AIR CONDITIONING, DATA NETWORK, POWER AND TELEPHONE SERVICE MUST REMAIN OPERATIONAL IN OCCUPIED AREAS FOR THE DURATION OF THE PROJECT. ANY OUTAGES OF UTILITIES AS MAY BE NECESSARY TO PERFORM THE WORK OF THIS PROJECT MUST OCCUR ON WEEKENDS ONLY AND SERVICES MUST BE RESTORED BY 7:00 AM MONDAY MORNING.

B. SOME OF THE OWNER'S FURNITURE, EQUIPMENT WILL REMAIN IN THE AREA OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO COVER AND PROTECT IT FROM DAMAGE AND THEFT, AND TO MOVE IT AS NEEDED TO ACCOMPLISH THE WORK. THE CONTRACTOR IS REQUIRED TO RETURN ALL ITEMS TO THE ROOM OF ORIGIN PRIOR TO REQUESTING A SUBSTANTIAL COMPLETION INSPECTION.

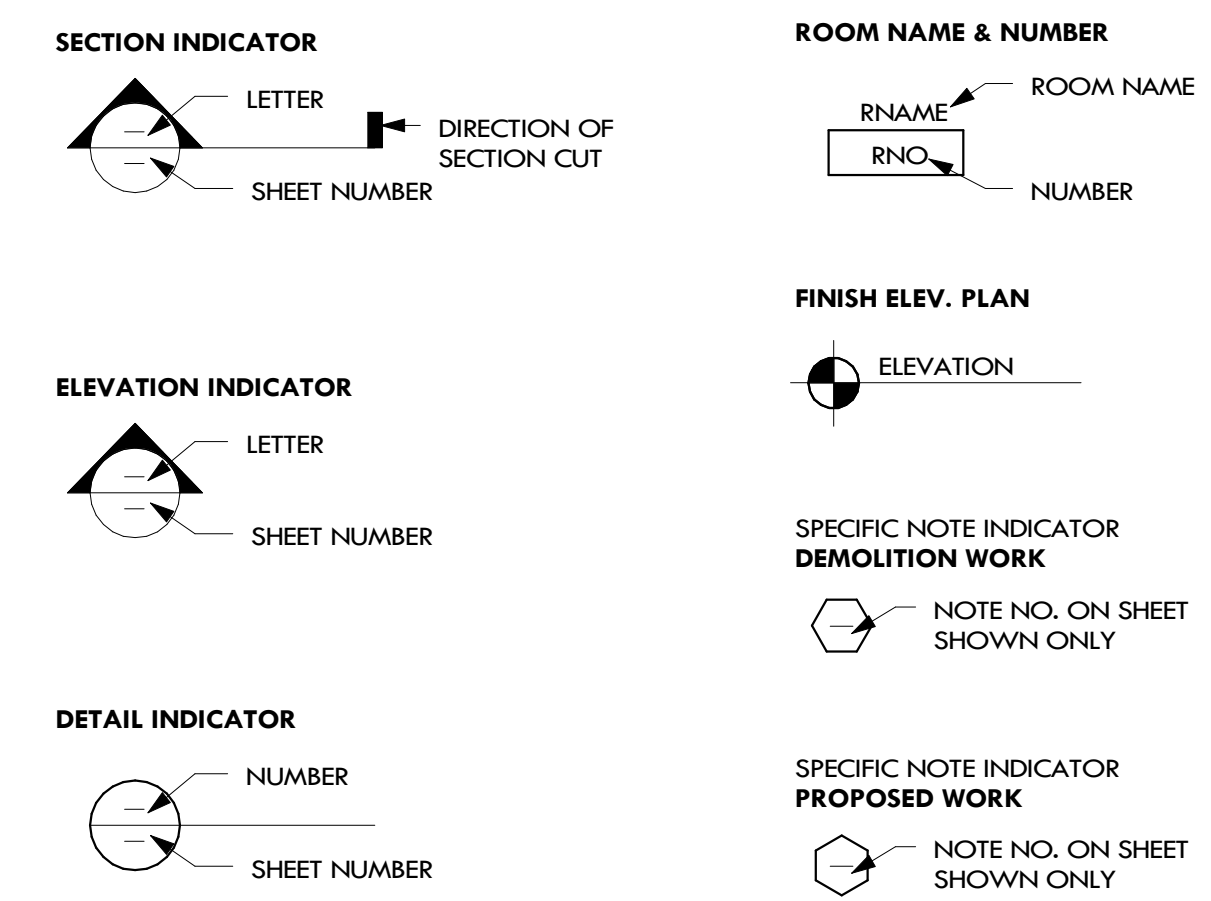
GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH EACH TRADE WHETHER IT BE PRIME OR SUBCONTRACTOR. CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.
- CONTRACTOR SHALL PROTECT ALL EXISTING ADJACENT CONSTRUCTION TO PREVENT DAMAGE DURING DEMOLITION AND CONSTRUCTION AND AT ALL TIMES.
- CONTRACTOR SHALL PATCH AND/OR REPAIR ALL EXISTING ADJACENT CONSTRUCTION AS MAY BE REQUIRED AFTER DEMOLITION TO PROVIDE A COMPLETE FINISHED INSTALLATION.
- ALL MATERIAL AND EQUIPMENT REMOVED FROM THE BUILDING SHALL BE DISPOSED OF BY THE CONTRACTOR.
- EACH TRADE WHETHER IT BE THE CONTRACTOR OR THE SUBCONTRACTOR, IS RESPONSIBLE FOR THEIR OWN CUTTING. ALL PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE EXISTING LIGHTING FIXTURES, PLUMBING FIXTURES, HVAC EQUIPMENT ETC. ARE TO BE REMOVED, ALL SERVICE TO SAME SHALL BE CAPPED OR REMOVED IN ACCORDANCE WITH APPLICABLE CODES. WHERE EXISTING LIGHTING, PLUMBING, HVAC, ETC. ARE TO REMAIN BUT ARE EFFECTED BY ADJACENT DEMOLITION AND/OR NEW CONSTRUCTION, CONTRACTOR IS TO PROVIDE RECONNECTION, CLEANING AND RELOCATION AS NECESSARY TO ACCOMMODATE WORK. COORDINATE WITH MECHANICAL AND ELECTRICAL DISCIPLINES.
- IF DURING DEMOLITION, THE DEMOLITION CONTRACTOR FINDS PLUMBING, PIPING, ELECTRICAL, ETC., WITHIN CHASE WALL OR ENCLOSURE NOT SHOWN ON DRAWINGS, DEMOLITION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER/ENGINEER.
- CONTRACTOR SHALL CLEAN WORK AREA AND REMOVE ALL DEBRIS AFTER AND DURING EACH WORK SHIFT, IN ORDER TO MAINTAIN MINIMAL DISTURBANCE.
- PHASING SEPARATION BARRICADES. PROVIDE BARRICADE SEPARATION ENCLOSURES AS REQUIRED TO MAINTAIN SAFETY AMONG PERSONS EMPLOYED IN ADDITION TO THE BUILDING OCCUPANTS IN ACCORDANCE WITH THE STANDARDS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ACT (LATEST ADOPTION). THE OWNER AND ARCHITECT SHALL BE HELD HARMLESS FOR ANY ACCIDENT, INJURY OR ANY OTHER INCIDENT RESULTING FROM NONCOMPLIANCE WITH THESE STANDARDS.
- USE EXISTING COUNTERTOPS TO BE USED AS TEMPLATES FOR PROPOSED COUNTERTOPS. COORDINATE WITH OWNER FOR STORAGE.
- NOTIFY OWNER 30 DAYS PRIOR TO REMOVAL OF SPECIALIZED EQUIPMENT.

STANDARDS, CODES AND QUALITY

- INDUSTRY STANDARDS: APPLICABLE STANDARDS OF CONSTRUCTION INDUSTRY HAVE SAME FORCE AND EFFECT ON PERFORMANCE OF THE WORK AS IF COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS OR IN GOVERNING REGULATIONS HAVE PRECEDENCE OVER NON-REFERENCED STANDARDS. REFERENCES TO STANDARD SPECIFICATIONS AND CODES REFER TO CURRENT EDITIONS. COMPLY WITH APPLICABLE STANDARDS OF WORK, PROMULGATED BY ORGANIZATIONS, ASSOCIATIONS, INSTITUTES, SOCIETIES, BOARDS AND GENERALLY RECOGNIZED ORGANIZATIONS.
- CODES: THE FLORIDA BUILDING CODE (FBC), 2010 EDITION AND NFPA 101 (LIFE SAFETY CODE) 2012 EDITION APPLY TO ALL WORK. IN EVENT OF A CONFLICT, THE MOST STRINGENT CODE SHALL APPLY.

ARCHITECTURAL SYMBOL KEY



WOODROFFE CORPORATION ARCHITECTS
5005 WEST LAUREL STREET, SUITE 215
TAMPA, FL 33607

813-281-0411
FLORIDA LICENSE NUMBER AA C001379

ENRIQUE A. WOODROFFE, FAIA, LEED
FLORIDA LICENSE AR 0007703

REVISIONS	BY

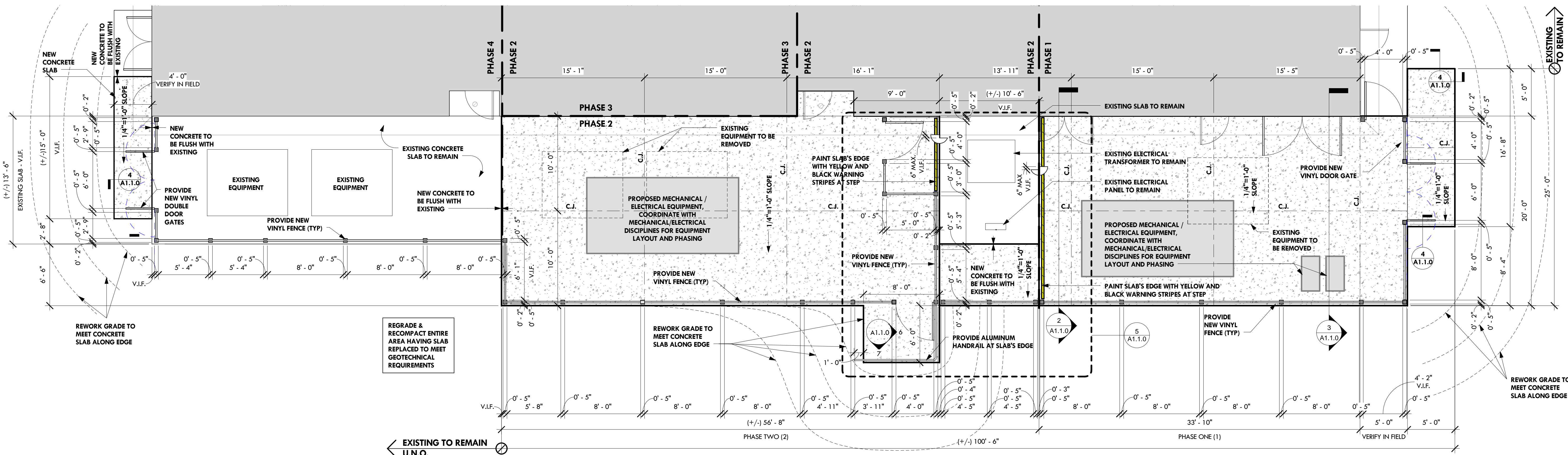
DAVID L. TIPPIN WATER TREATMENT FACILITY
LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

100% CONSTRUCTION DOCUMENTS

PHASING PLAN AND GENERAL NOTES

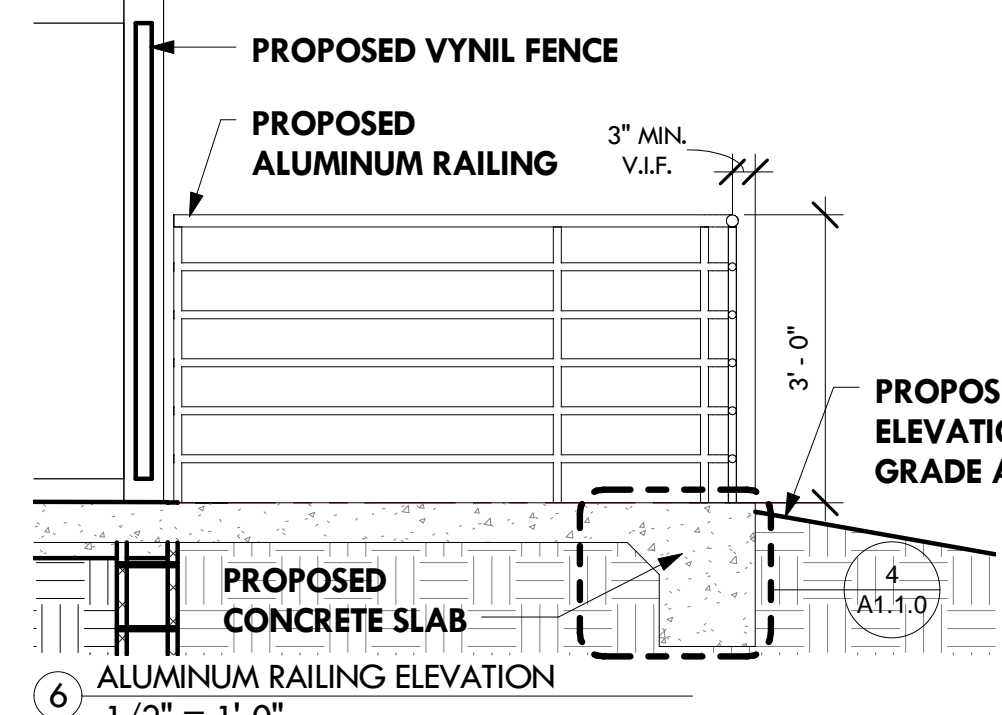
AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1401 West Bayshore Avenue, Suite 200
Tampa, FL 33606
www.agiconsulting.com
Florida Engineering Business Number 0001

DRAWN	DC
CHECKED	HW
DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	A1.1

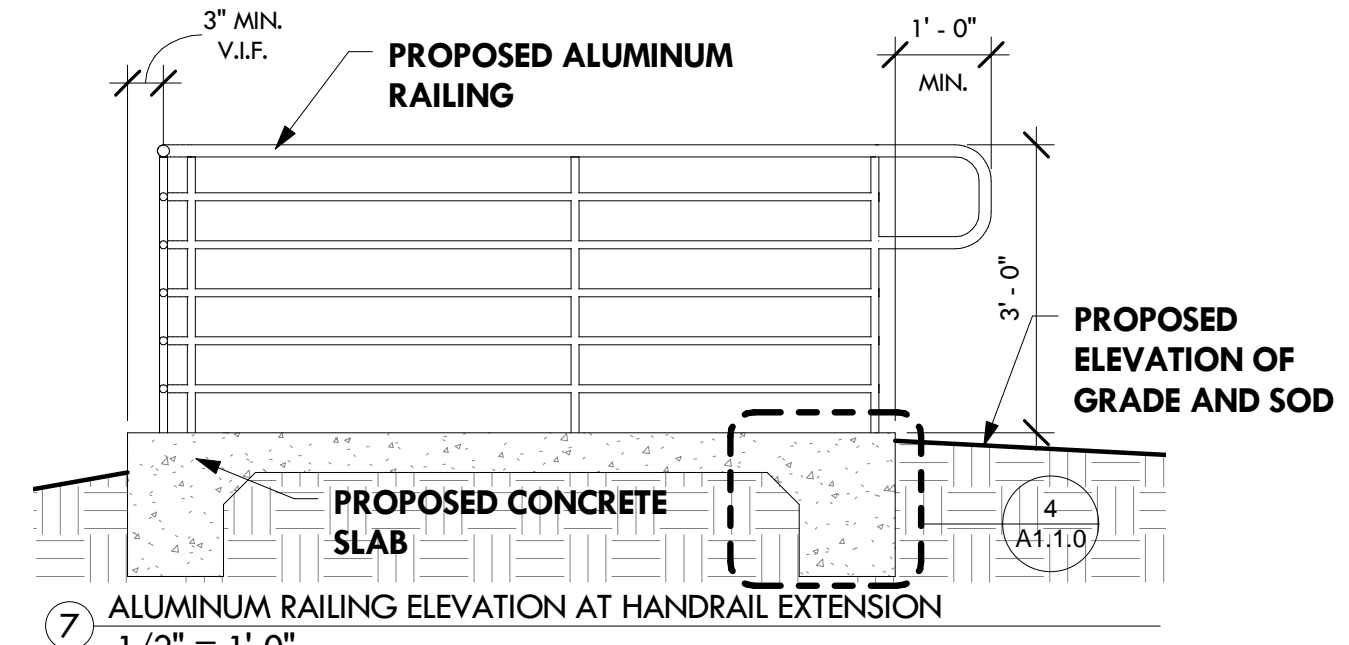


1 EXTERIOR PHASING PLAN (NOTE: THIS PLAN SHOWS RENOVATED PLAN AT THE END OF PHASE IV)
3/16" = 1'-0"

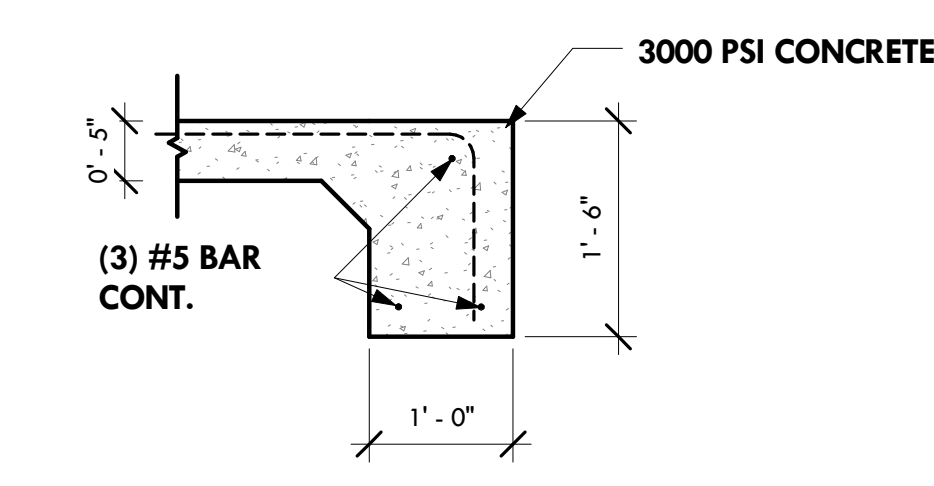
REFER TO SHEET A1.1.1 FOR PHASE I; SHEET A1.2.1 FOR PHASE II; SHEET A1.4.1 FOR PHASE IV



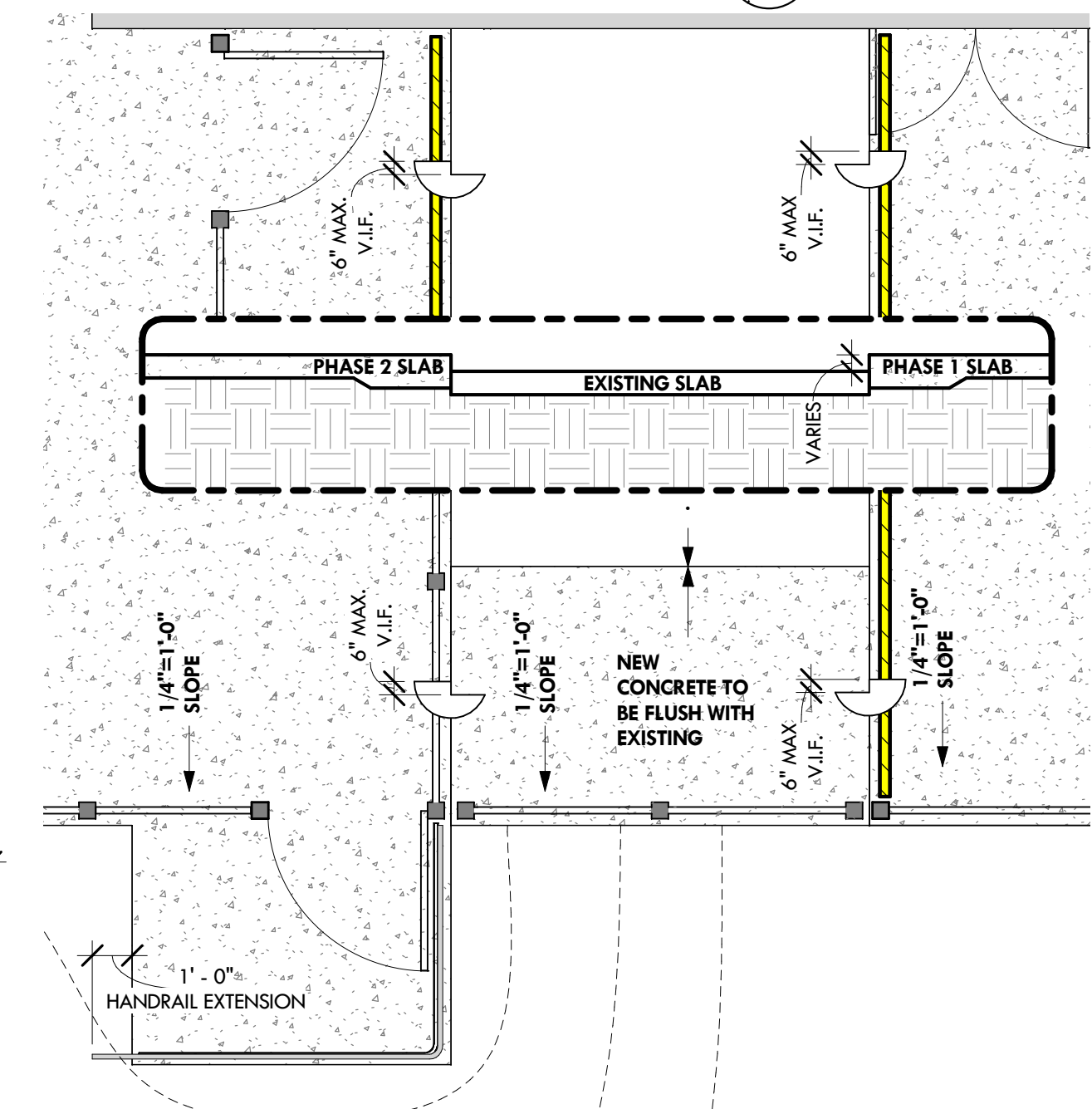
6 ALUMINUM RAILING ELEVATION
1/2" = 1'-0"



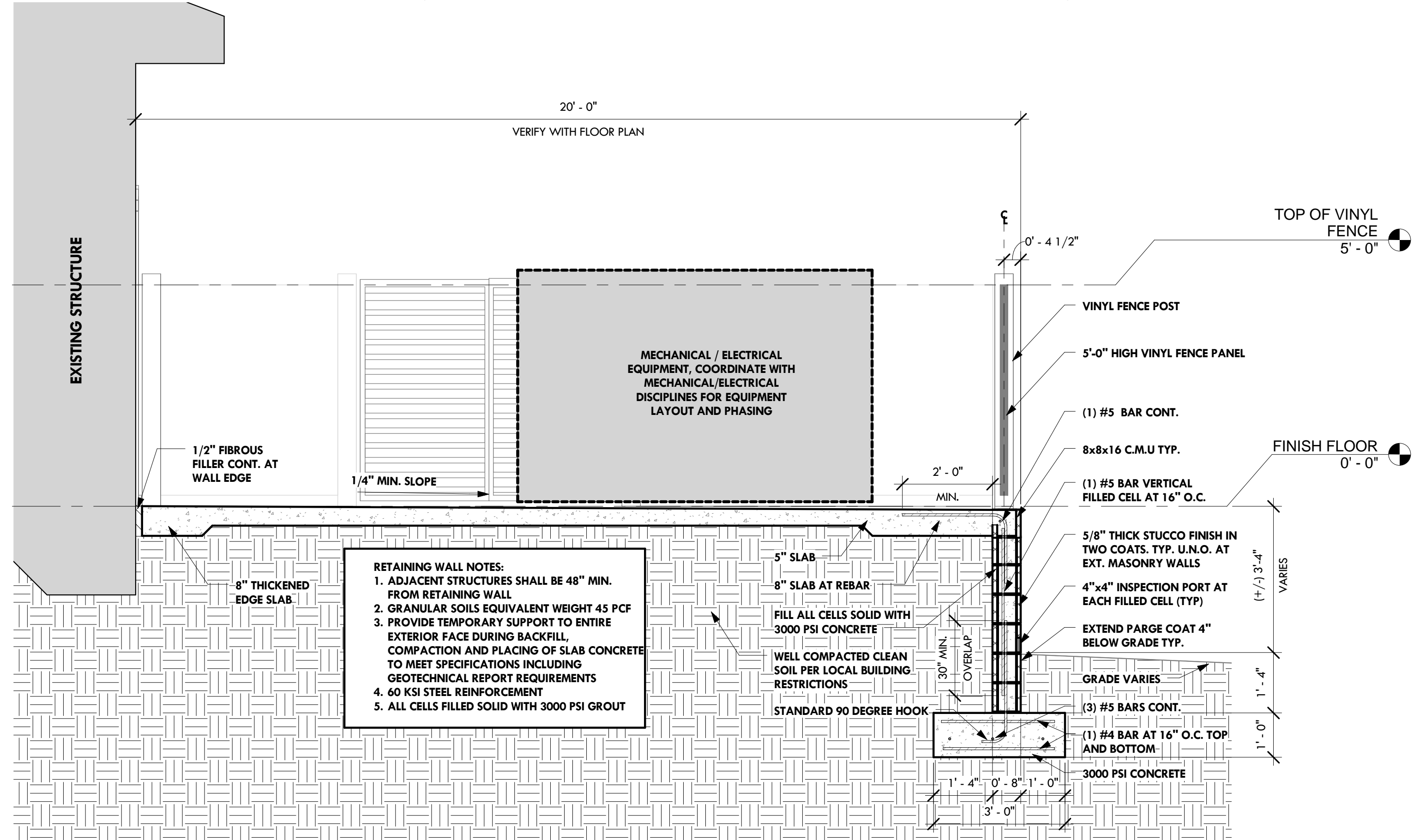
7 ALUMINUM RAILING ELEVATION AT HANDRAIL EXTENSION
1/2" = 1'-0"



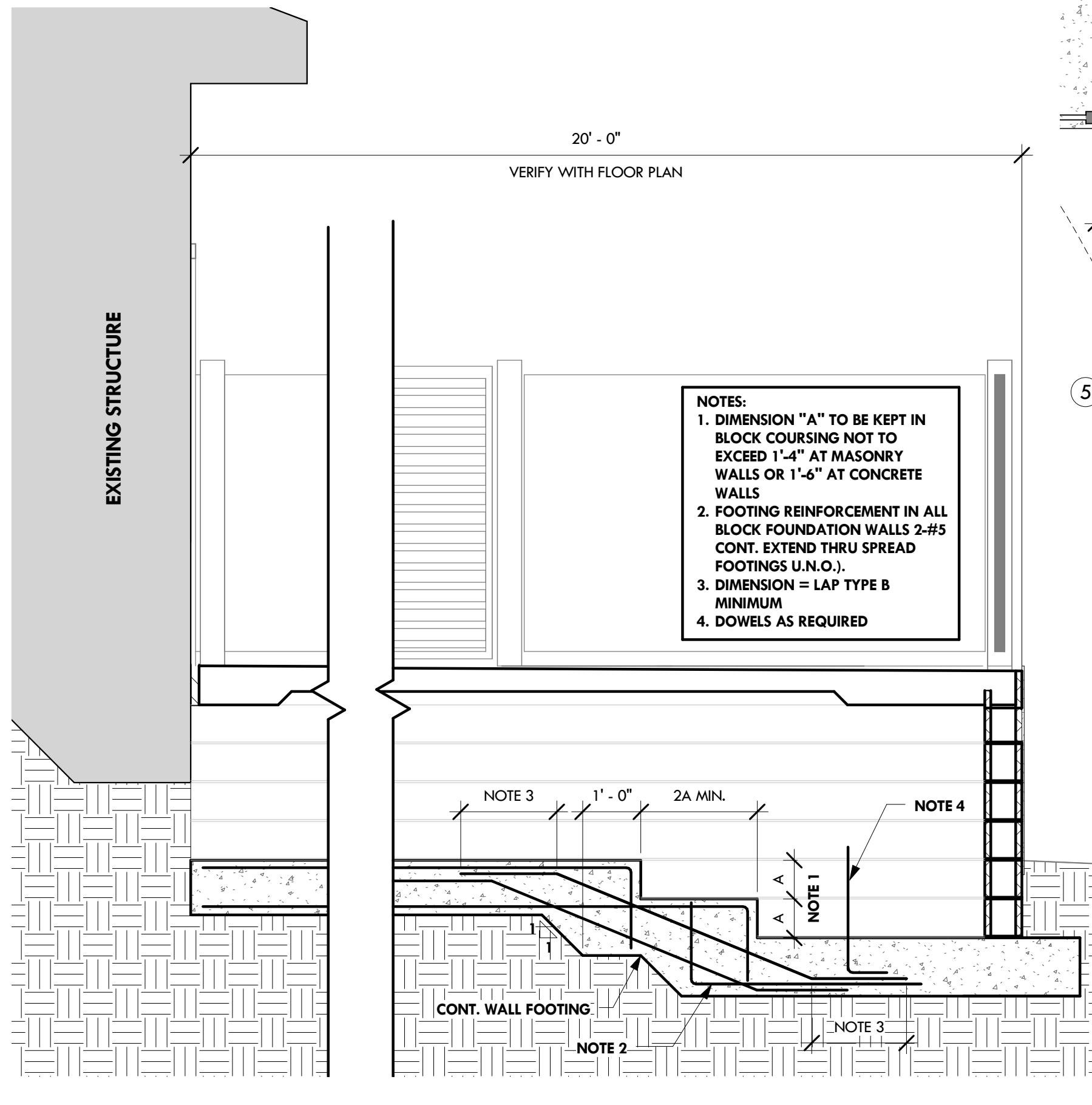
4 TYPICAL SLAB FOOTING
3/4" = 1'-0"



5 SLAB PLAN AROUND EXISTING ELECTRICAL EQUIPMENT
1/4" = 1'-0"



2 SECTION THROUGH RETAINING WALL
1/2" = 1'-0"



3 SECTION THROUGH STEPPED FOOTING AT EAST RETAINING WALL
1/2" = 1'-0"

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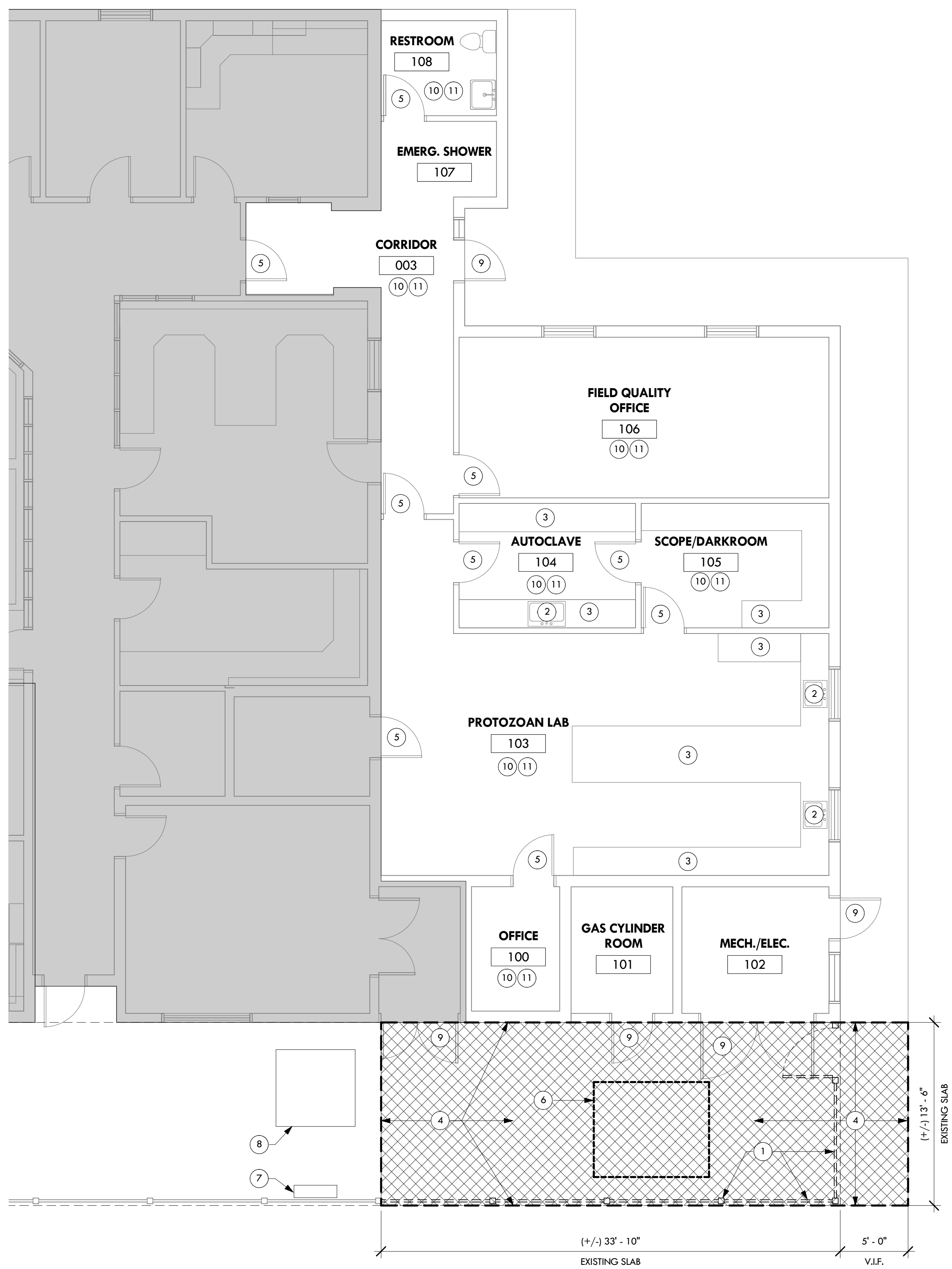
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DAVID L. TIPPIN WATER TREATMENT FACILITY
LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

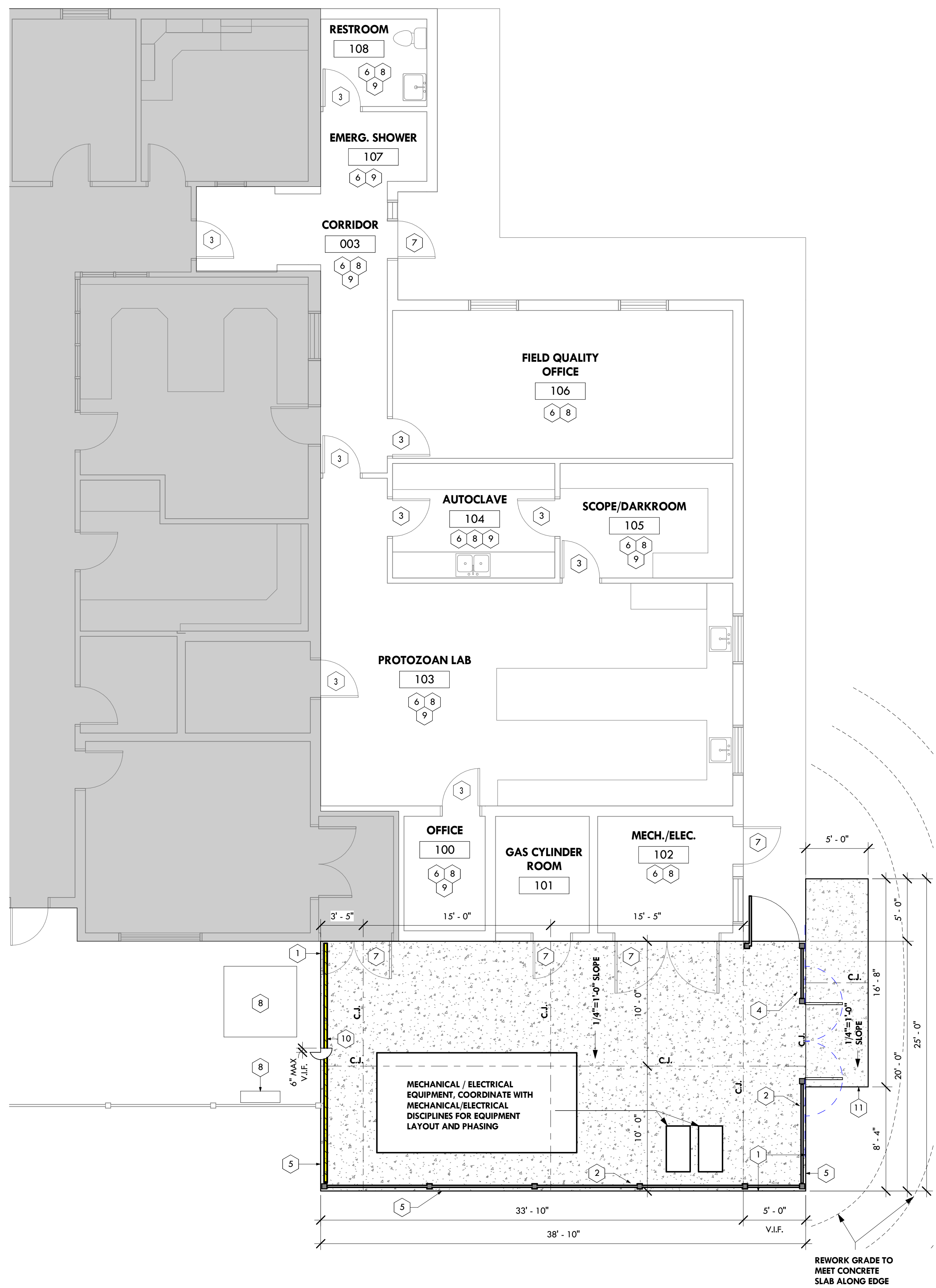
100% CONSTRUCTION DOCUMENTS
EXTERIOR PHASING PLAN
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
10000 W. Hillsborough Avenue, Suite 200
Tampa, FL 33610
AGI

DRAWN DC
CHECKED HW
DATE 01/10/14
SCALE As indicated
AGI PROJECT 13009
SHEET A1.1.0

1/24/2014 9:13:22 AM



1 PHASE 1 - DEMOLITION PLAN
3/16" = 1'-0"



2 PHASE 1 - RENOVATION PLAN
3/16" = 1'-0"

GENERAL NOTES

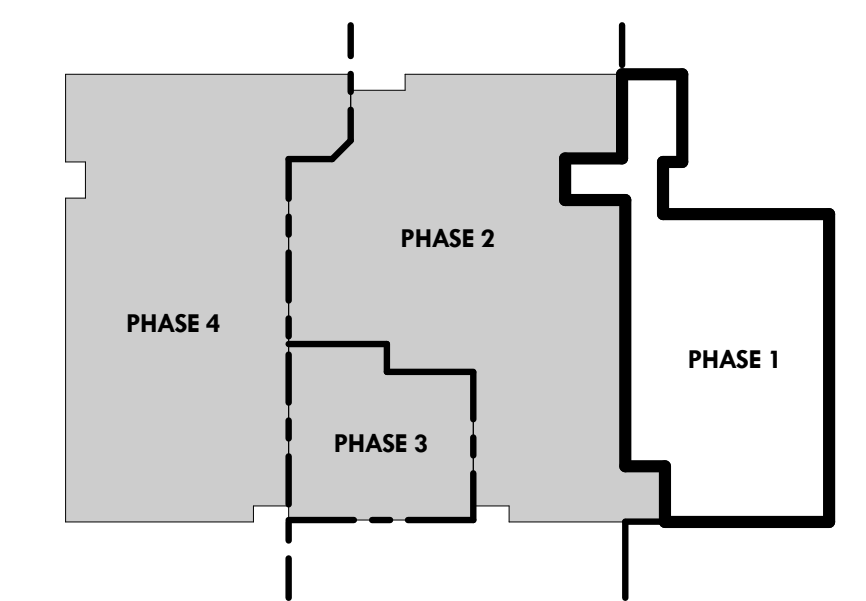
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- ALL DIMENSIONS ARE TO ONE OF THE FOLLOWING:
 - CENTERLINE OF ITEMS
 - FACE OF CONCRETE AT EXTERIOR
 - FACE OF FINISH AT INTERIOR
- PATCH AND PREPARE ALL INTERIOR WALLS FOR NEW PAINTING. PROTECT ALL ADJACENT SURFACES
- PROTECT ALL FLOOR FINISHES PRIOR TO COMMENCEMENT OF WORK
- REMOVE ALL CEILING TILES AND LIGHTING FIXTURES PER PHASE PLAN - PROVIDE HUMIDITY RESISTANT CEILING TILE AND GRID
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING DIFFUSERS, EXIT LIGHTS, LIGHTS, ETC.

DEMO PLAN NOTES " O "

- REMOVE EXISTING VINYL FENCE
- EXISTING SINK TO REMAIN
- EXISTING CABINETS AND COUNTERTOPS TO REMAIN
- REMOVE EXISTING CONCRETE SLAB
- STRIP DOOR PANEL FINISH. PREPARE FOR PAINT AND STAIN. PREPARE METAL DOOR AND FRAME TO REPAINT
- REMOVE EXISTING MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK
- EXISTING ELECTRICAL PANEL TO REMAIN
- EXISTING ELECTRICAL TRANSFORMER TO REMAIN
- PREPARE TO REPAINT DOOR AND FRAME
- PREPARE TO REPAINT WALLS
- PROTECT FLOOR FINISHES

RENOVATION PLAN NOTES " O "

- 5" CONCRETE SLAB WITH WIRE MESH AND 8" THICKENED SLAB EDGE
- PROVIDE WHITE EXTERIOR VINYL ENCLOSURE FENCE
- RE-STAIN WOOD DOORS, PAINT HOLLOW METAL FRAME AROUND DOOR AND FRAME AROUND WINDOW IF APPLICABLE
- PROVIDE 4'-0" WHITE EXTERIOR VINYL GATE
- PROVIDE RETENTION WALL - REFER TO SHEET A1.1.0 FOR ADDITIONAL DETAILS
- ALL INTERIOR WALLS TO BE PAINTED - COLOR TO MATCH EXISTING
- PAINT DOOR AND FRAME
- REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR SCOPE OF WORK
- CLEAN FLOORS AND BASE - USE PROFESSIONAL CLEANING SERVICE. REMOVE STAINS WHERE POSSIBLE
- PAINT SLAB'S EDGE WITH YELLOW AND BLACK WARNING STRIPES AT STEP
- SLAB FOOTING DETAIL - REFER TO SHEET A1.1.0



WOODROFFE CORPORATION ARCHITECTS
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TAMPA, FL 33607
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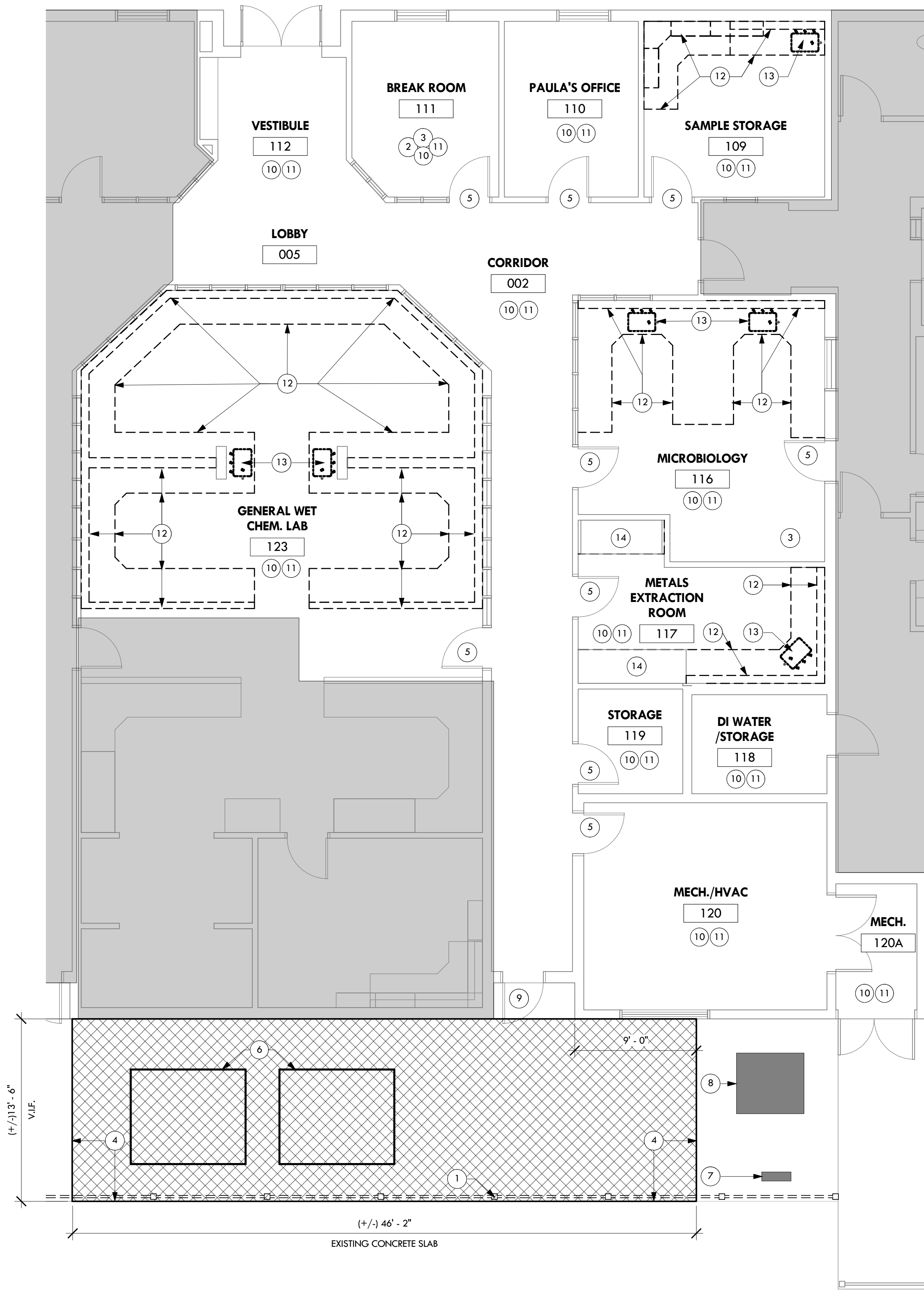
REWORK GRADE TO MEET CONCRETE SLAB ALONG EDGE

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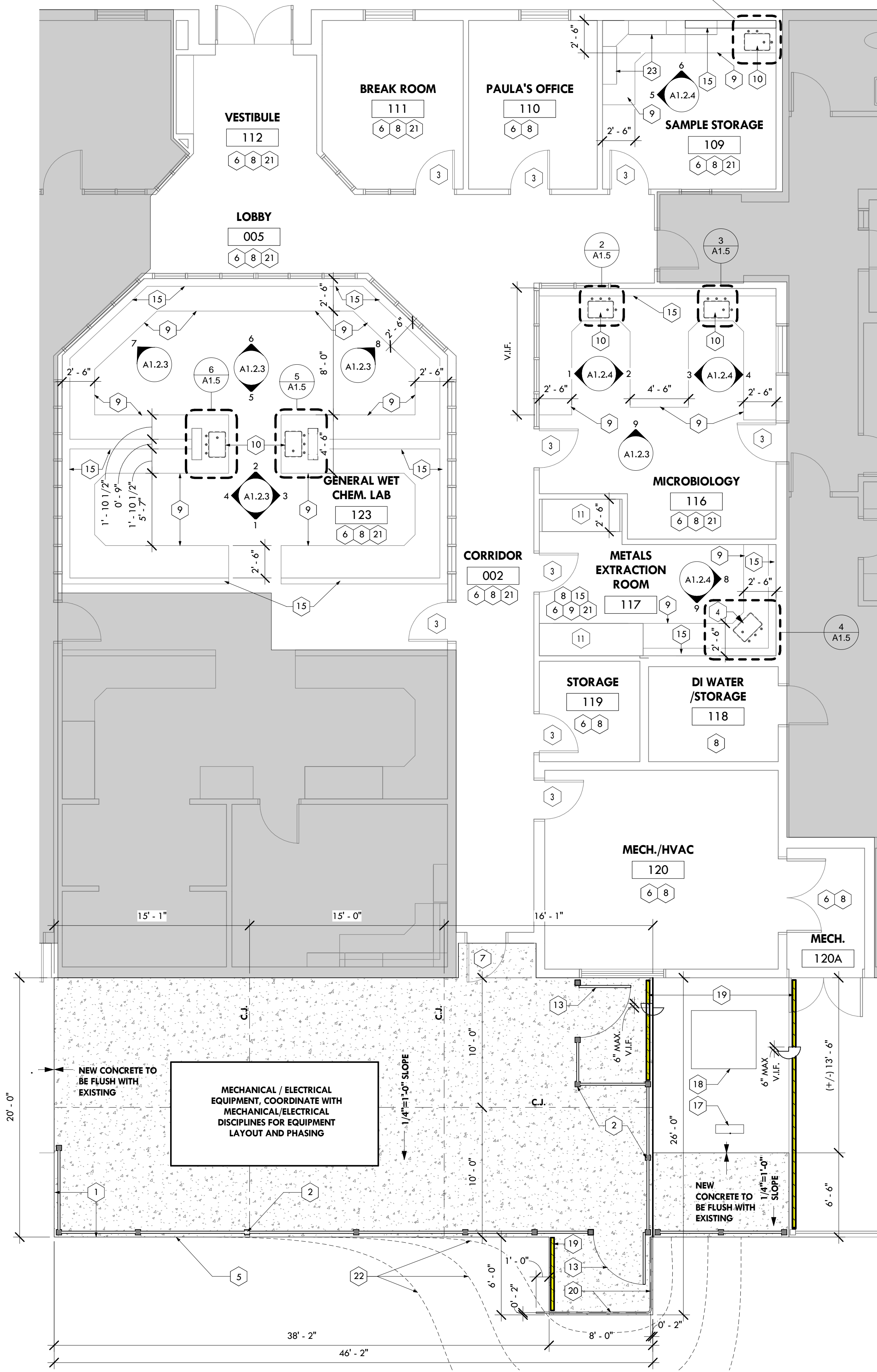
DAVID L. TIPPIN WATER TREATMENT FACILITY
LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

PHASE 1 - PLANS
100% CONSTRUCTION DOCUMENTS
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
AGI

DRAWN	DC
CHECKED	HW
DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	A1.1.1



1 PHASE 2 - DEMOLITION PLAN
3/16" = 1'-0"



2 PHASE 2 - RENOVATION PLAN
3/16" = 1'-0"

GENERAL NOTES

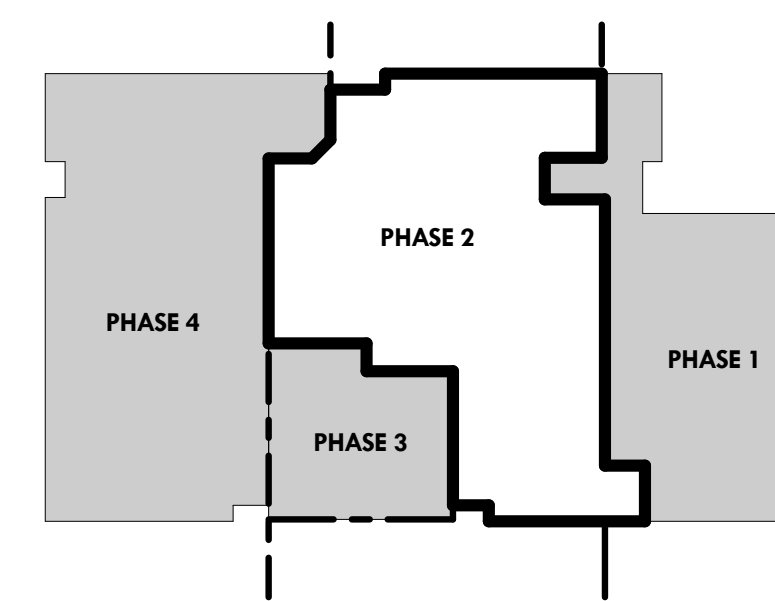
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- REMOVE ALL CEILING TILES AND LIGHTING FIXTURES PER PHASE PLAN - PROVIDE HUMIDITY RESISTANT CEILING TILE AND GRID
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING DIFFUSERS, EXIT LIGHTS, LIGHTS, ETC.

DEMO PLAN NOTES " O "

- REMOVE EXISTING VINYL FENCE
- EXISTING SINK TO REMAIN
- EXISTING CABINETS AND COUNTERTOPS TO REMAIN
- REMOVE EXISTING CONCRETE SLAB
- STRIP DOOR PANEL FINISH. PREPARE FOR PAINT AND STAIN. PREPARE METAL DOOR AND FRAME TO REPAIR
- REMOVE EXISTING MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK
- EXISTING ELECTRICAL PANEL TO REMAIN
- EXISTING ELECTRICAL TRANSFORMER TO REMAIN
- PREPARE TO REPAIR DOOR AND FRAME
- PREPARE TO REPAIR WALLS
- PROTECT FLOOR FINISHES
- REMOVE EXISTING CABINETS AND COUNTERTOPS
- REMOVE/RELOCATE EXISTING SINK - GC TO COORDINATE EFFORTS WITH CLIENT
- EXISTING HOOD TO REMAIN

RENOVATION PLAN NOTES " O "

- 5" CONCRETE SLAB WITH WIRE MESH AND 8" THICKENED SLAB EDGE
- PROVIDE WHITE EXTERIOR VINYL ENCLOSURE FENCE
- RE-STAIN WOOD DOORS, PAINT HOLLOW METAL FRAME AROUND DOOR AND FRAME AROUND WINDOW IF APPLICABLE
- PROVIDE PAIR OF 3'-0" WHITE EXTERIOR VINYL GATES
- PROVIDE RETENTION WALL - REFER TO SHEET A1.1.0 FOR ADDITIONAL DETAILS
- ALL INTERIOR WALLS TO BE PAINTED - COLOR TO MATCH EXISTING
- PAINT DOOR AND FRAME
- REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR SCOPE OF WORK
- NEW BASE CABINETS AND CHEMICAL RESISTANT SOLID SURFACE COUNTERTOPS - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS
- NEW CHEMICAL RESISTANT SINK, NEW PLUMBING FIXTURES TO MATCH EXISTING - SEE MECH./PLUMB. SHEETS FOR FIXTURE SCHEDULE
- RECONNECT EXISTING HOOD - COORDINATE WITH HOOD MANUFACTURER AND OWNER
- VINYL FENCE ENCLOSURE
- 4'-0" VINYL GATE
- RETAINING WALL REFER TO SHEET A1.1.0 FOR ADDITIONAL DETAILS
- PROVIDE NEW ELECTRICAL RACEWAY FOR ELECTRICAL CONDUIT
- REWORK GRADE TO MEET CONCRETE SLAB ALONG EDGE
- EXISTING ELECTRICAL PANEL TO REMAIN
- EXISTING ELECTRICAL TRANSFORMER TO REMAIN
- PAINT SLAB'S EDGE WITH YELLOW AND BLACK WARNING STRIPES AT STEP
- PROVIDE STEEL PIPE HANDRAIL AT SLAB'S EDGE
- CLEAN FLOORS AND BASE - USE PROFESSIONAL CLEANING SERVICE. REMOVE STAINS WHERE POSSIBLE
- REWORK GRADE TO MEET CONCRETE SLAB ALONG EDGE
- NEW WALL CABINET - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS



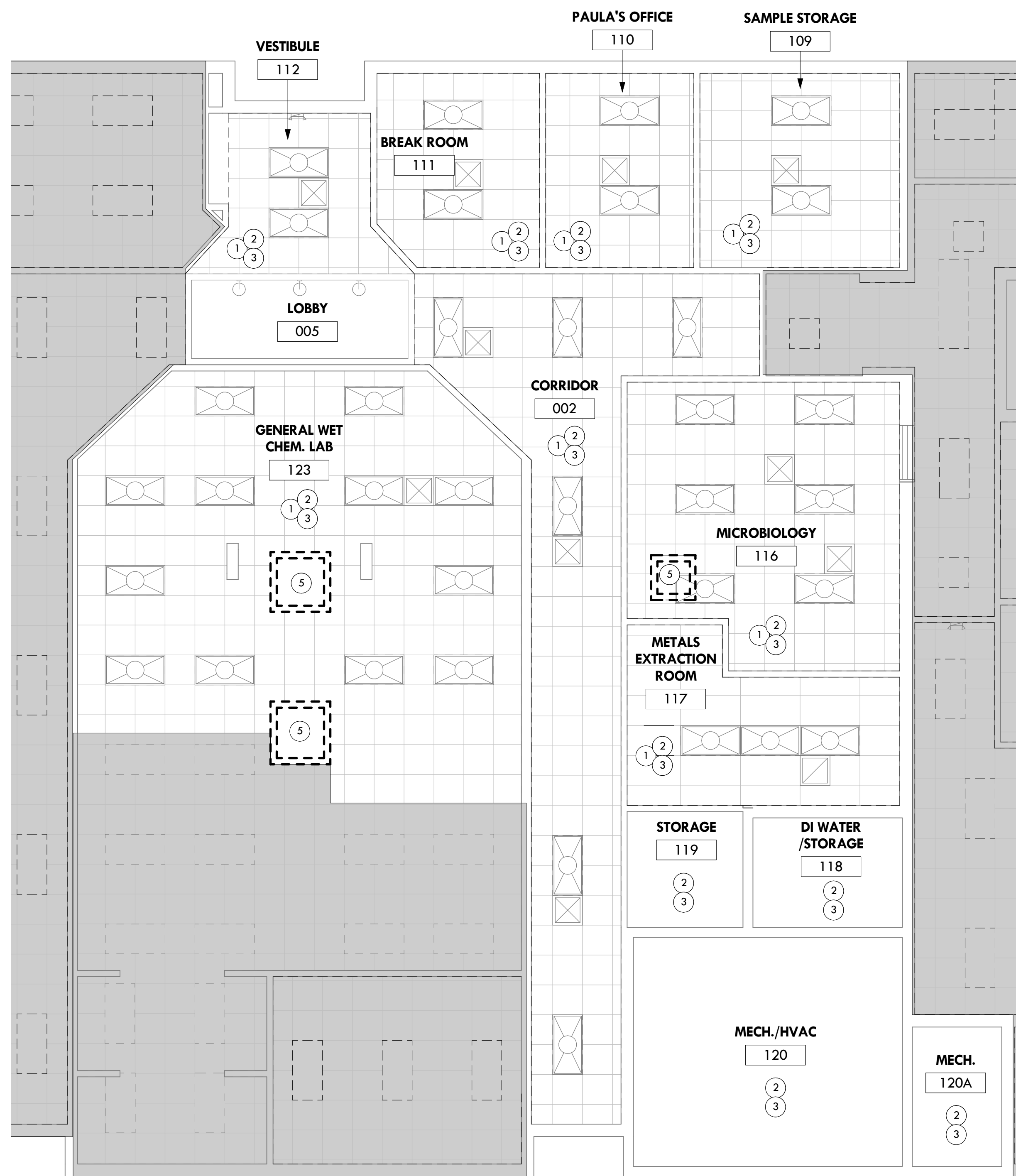
WOODROFFE CORPORATION ARCHITECTS
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TAMPA, FL 33607
813-281-0411
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REVISIONS	BY

DAVID L. TIPPIN WATER TREATMENT FACILITY
LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

PHASE 2 - PLANS
100% CONSTRUCTION DOCUMENTS
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
AGI

DRAWN	DC
CHECKED	HW
DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	A1.2.1



① PHASE 2-DEMOLITION CEILING PLAN
3/16" = 1'-0"



② PHASE 2-RENOVATION CEILING PLAN
3/16" = 1'-0"

GENERAL NOTES

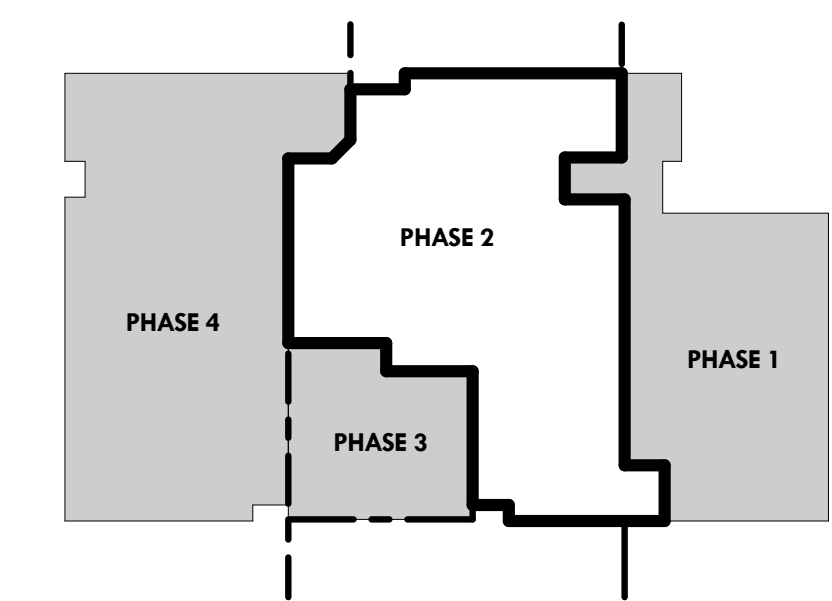
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- PATCH AND PREPARE ALL INTERIOR WALLS FOR NEW PAINTING. PROTECT ALL ADJACENT SURFACES
- PROTECT ALL FLOOR FINISHES PRIOR TO COMMENCEMENT OF WORK
- REMOVE ALL CEILING TILES AND LIGHTING FIXTURES PER PHASE PLAN - PROVIDE HUMIDITY RESISTANT CEILING TILE AND GRID
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING DIFFUSERS, EXIT LIGHTS, LIGHTS, ETC.

DEMO PLAN NOTES " O "

- REMOVE EXISTING ACUSTICAL SUSPENDED CEILING
- REMOVE EXISTING LIGHT FIXTURES
- REMOVE EXISTING MECHANICAL SYSTEM - SEE MECHANICAL SHEETS FOR SCOPE OF WORK
- EXISTING HOOD TO REMAIN
- REMOVE EXISTING ABANDONED SKYLIGHT - REMOVE FRAMING - PROTECT EXISTING CURB AND WATERPROOFING TO AVOID WATER INTRUSION CAUSED BY DEMOLITION

RENOVATION PLAN NOTES " O "

- NEW ACUSTICAL SUSPENDED CEILING
- NEW LIGHT FIXTURES - SEE ELECTRICAL SHEETS FOR SCOPE OF WORK
- NEW MECHANICAL SYSTEM - SEE MECHANICAL SHEETS FOR SCOPE OF WORK



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5005 WEST LAUREL STREET, SUITE 215
TAMPA, FL 33607
813-281-0411
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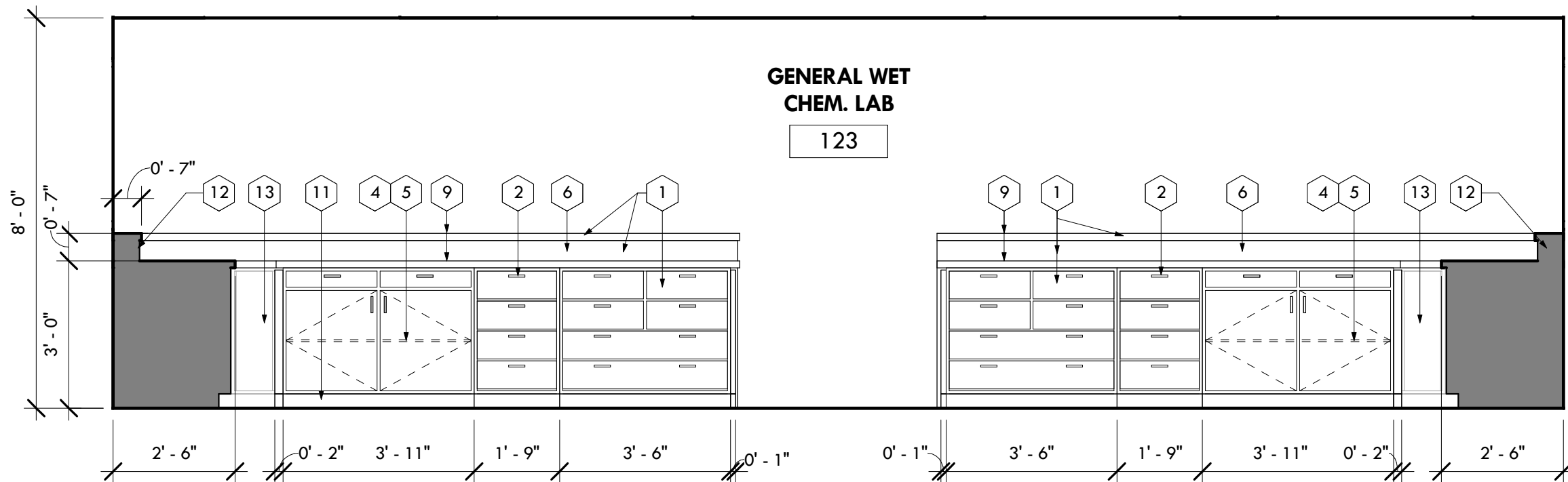
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LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

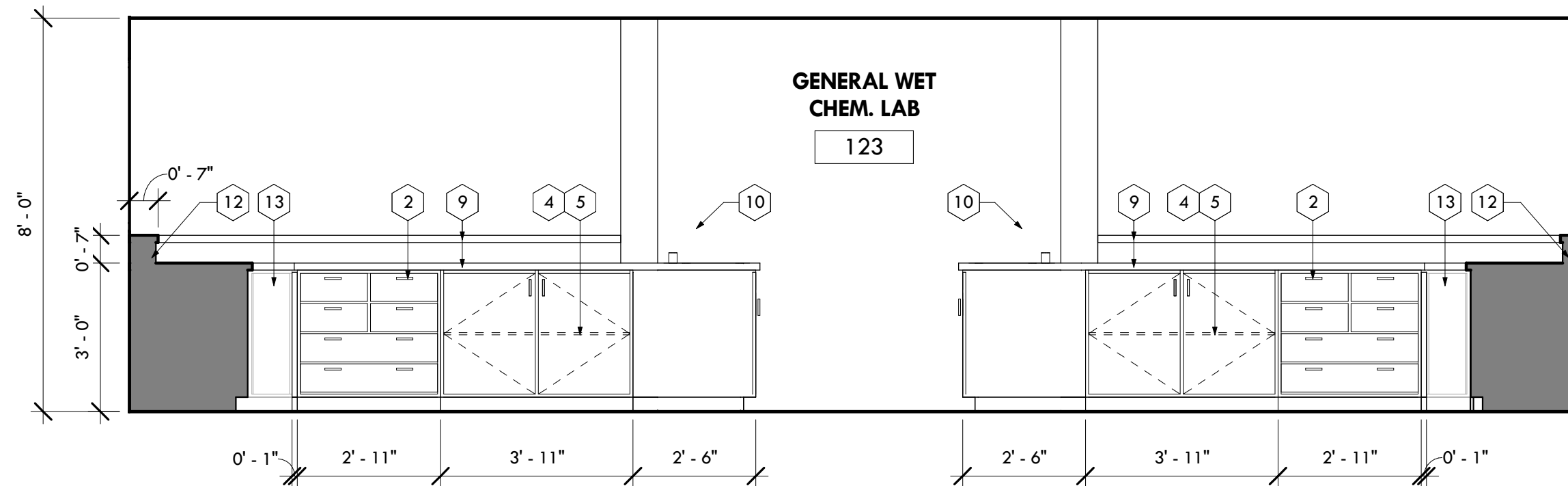
100% CONSTRUCTION DOCUMENTS
PHASE 2 - REFLECTED CEILING PLANS
AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
10410 West Bayshore Avenue, Suite 200
Tampa, FL 33607
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SCALE	As indicated
AGI PROJECT	13009
SHEET	SHEET

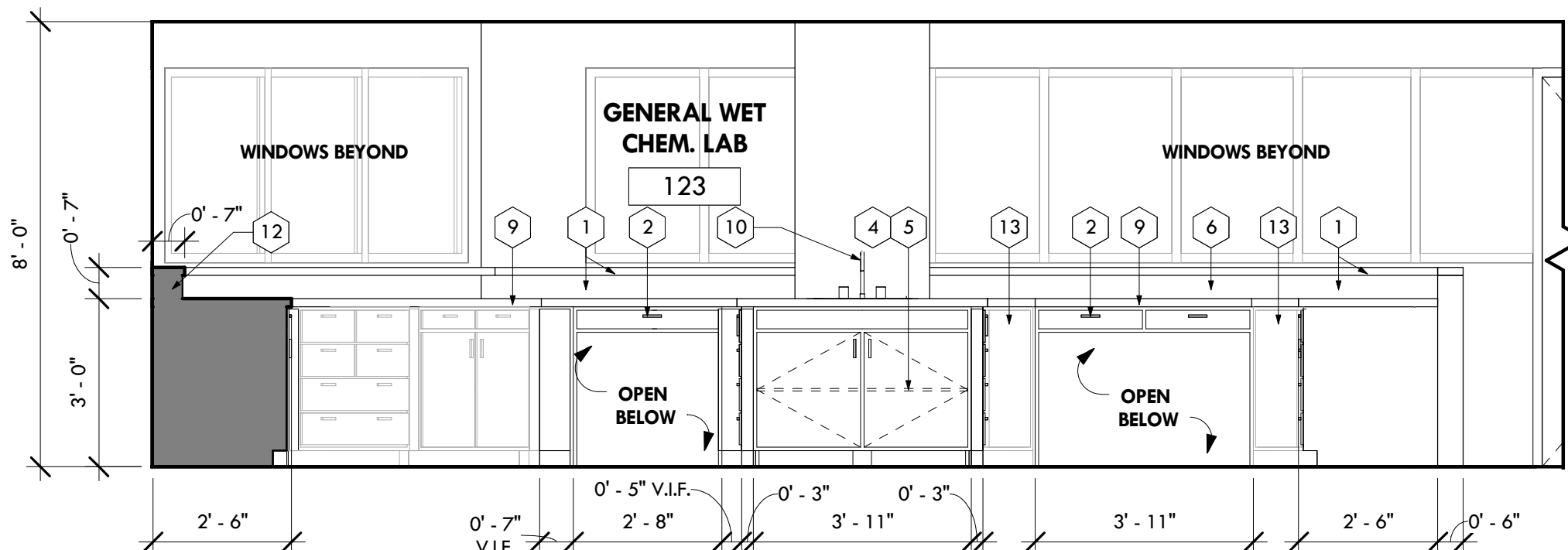
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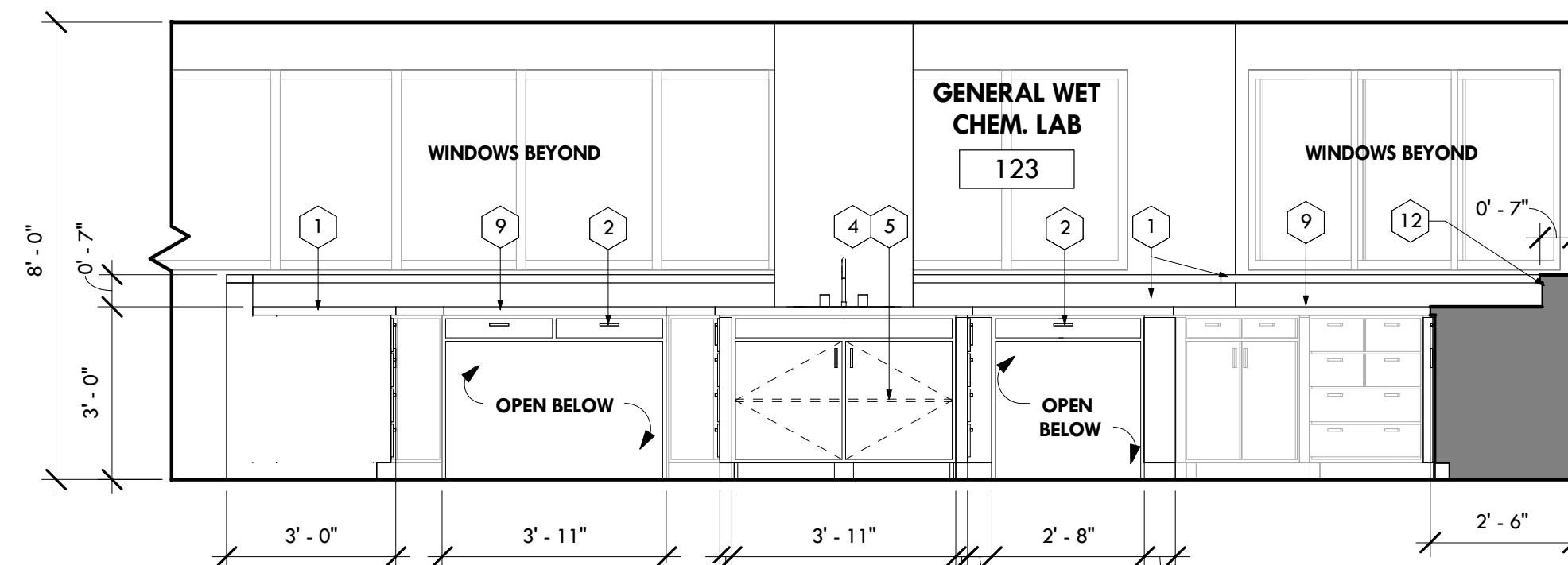
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3/8" = 1'-0"



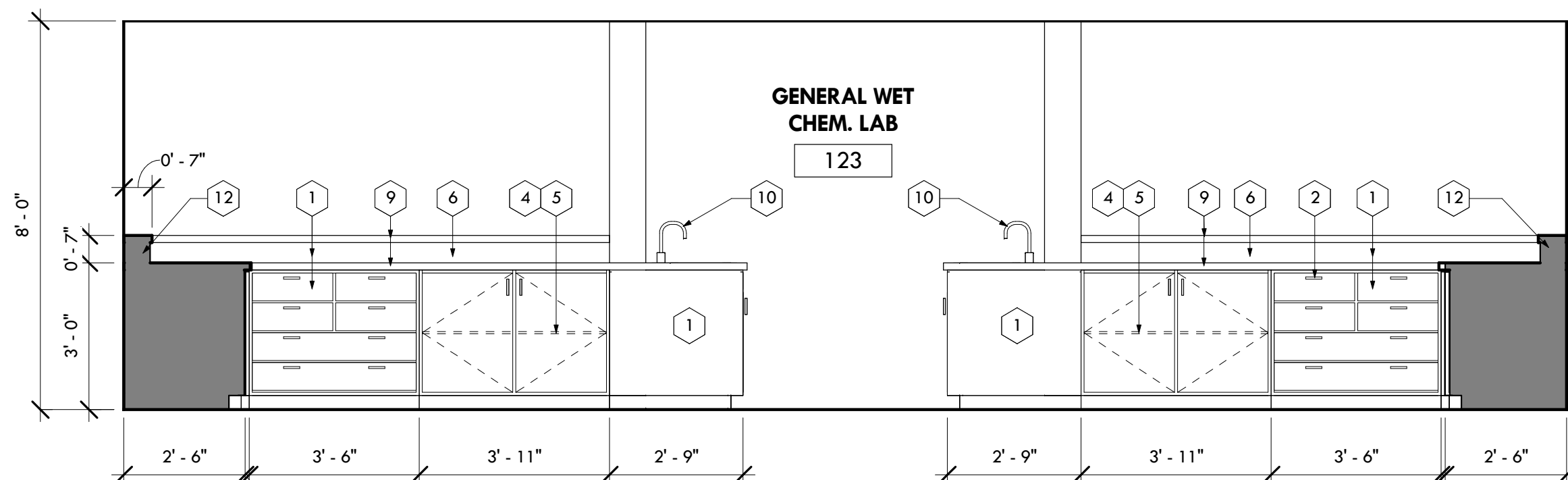
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3/8" = 1'-0"



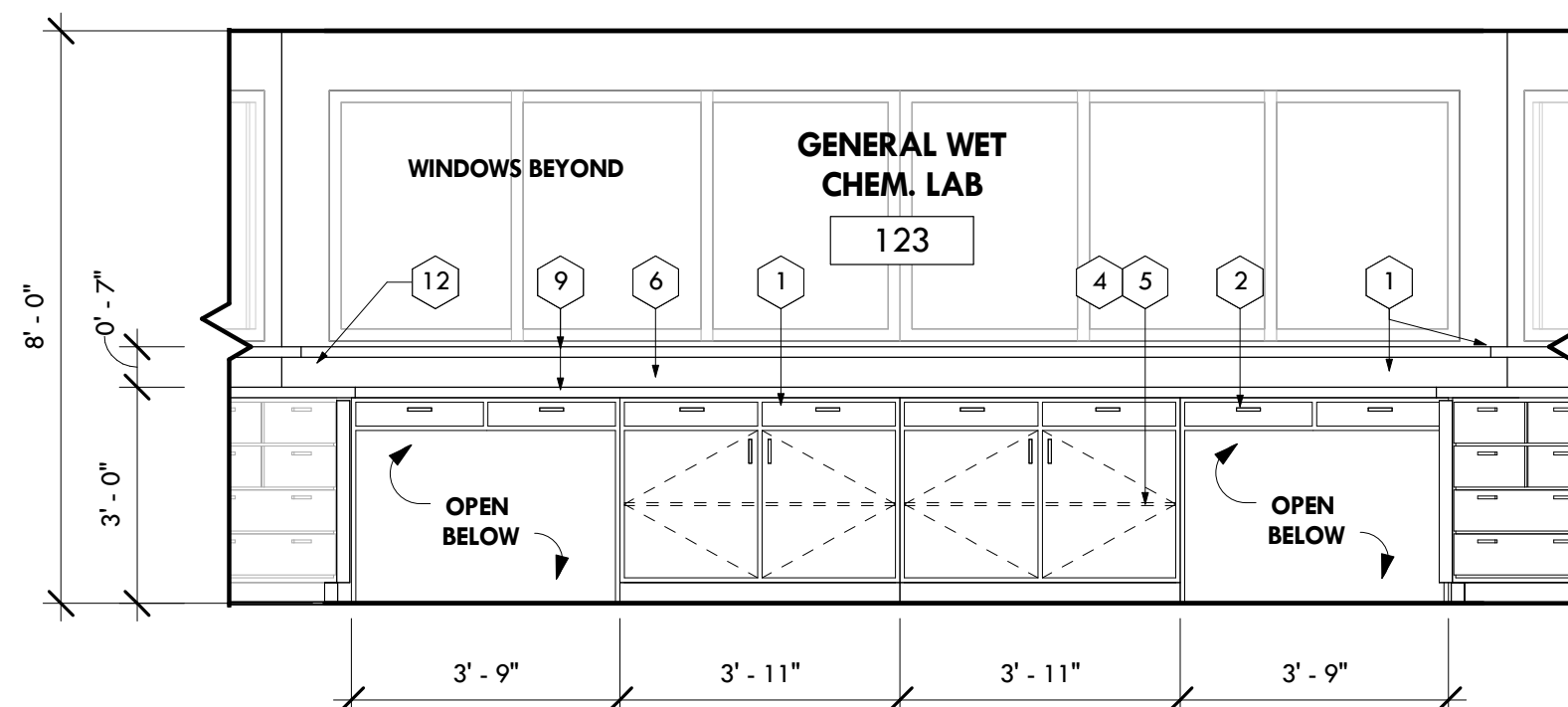
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3/8" = 1'-0"



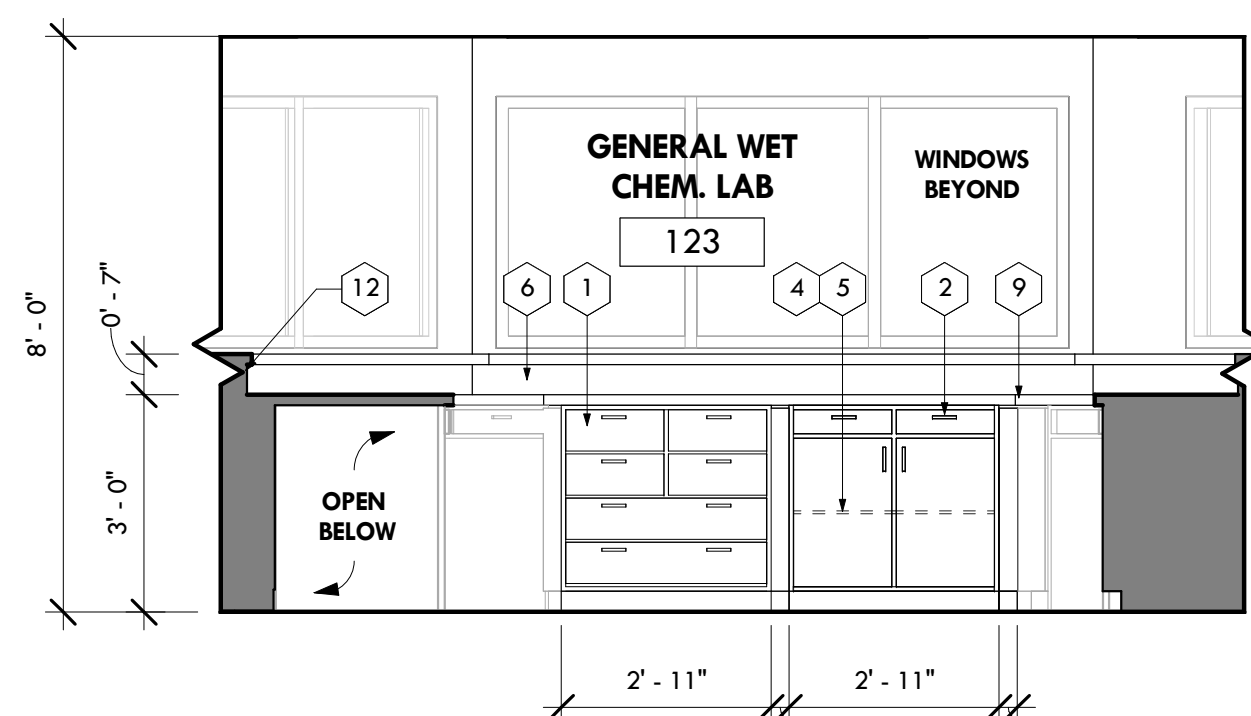
4 PHASE 2 - INTERIOR ELEVATIONS
3/8" = 1'-0"



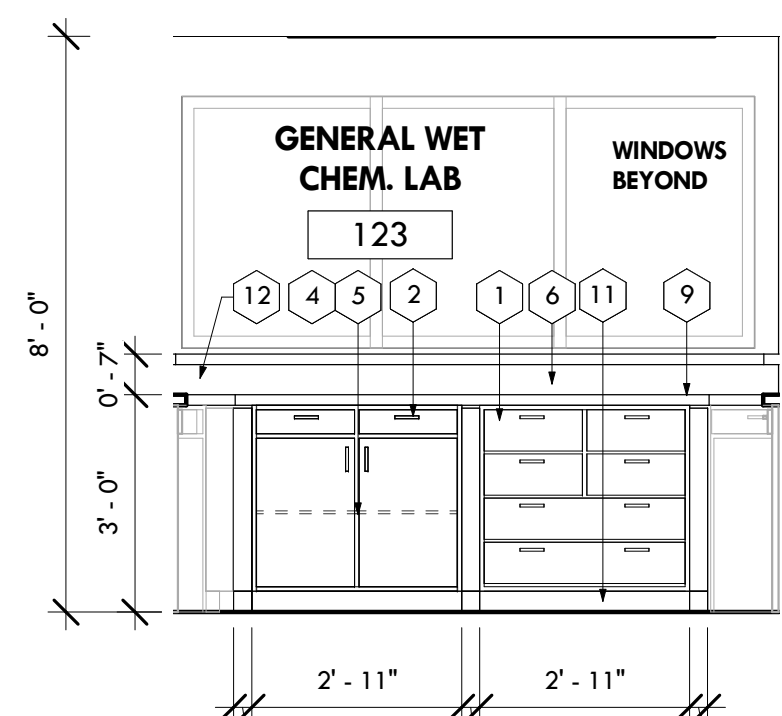
5 PHASE 2 - INTERIOR ELEVATIONS
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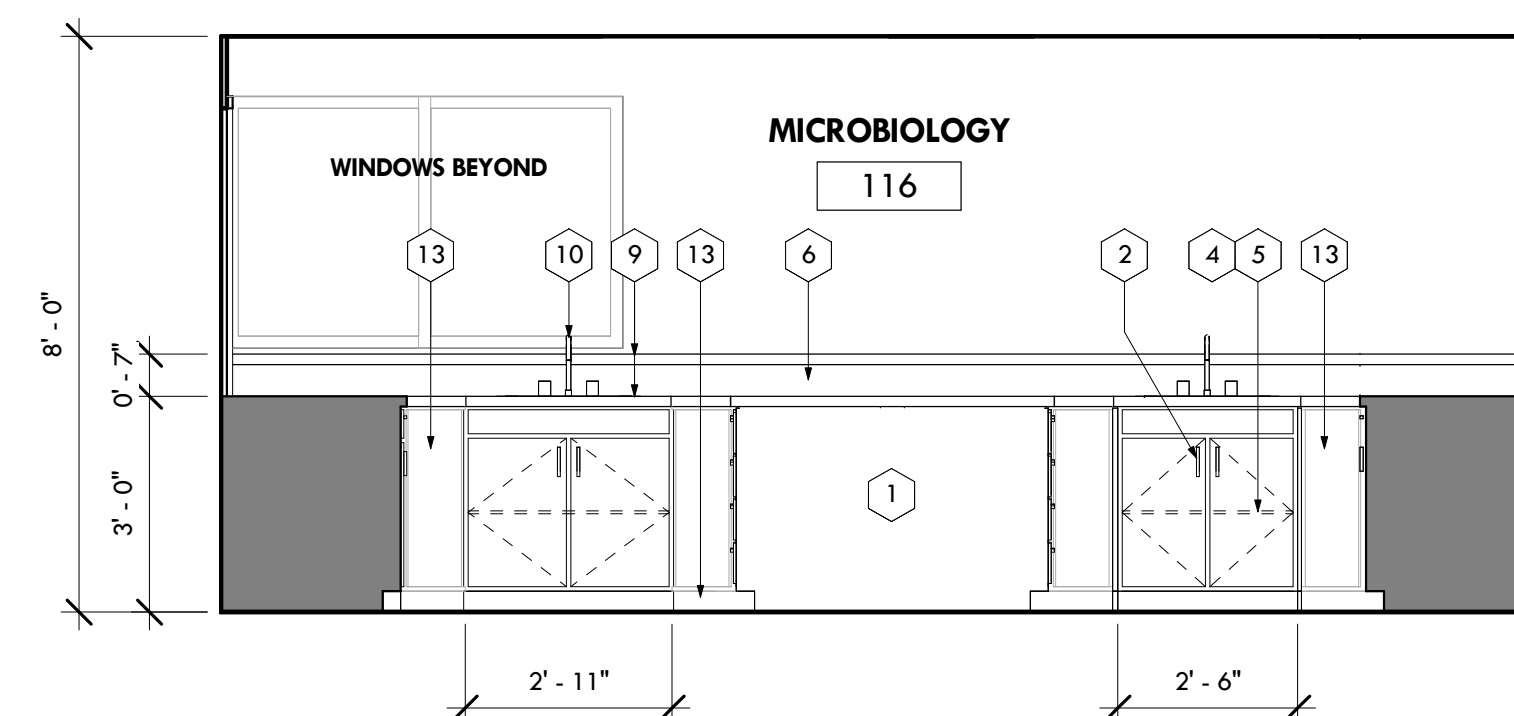
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3/8" = 1'-0"



8 PHASE 2 - INTERIOR ELEVATIONS
3/8" = 1'-0"



7 PHASE 2 - INTERIOR ELEVATIONS
3/8" = 1'-0"



9 PHASE 2 - INTERIOR ELEVATIONS
3/8" = 1'-0"

GENERAL NOTES

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- CONTRACTOR SHALL VERIFY A DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.
- ALL CASEWORK SHALL BE SQUARE, PLUMB AND TRUE.
- ALL EXPOSED AND SEMI-EXPOSED WOOD SURFACES TO HAVE PLASTIC LAMINATE FINISH.
- PROVIDE NYLON ROPE STOPS WHERE CABINET DOORS WOULD OTHERWISE HIT ADJACENT SURFACES.
- PROVIDE FILLER PANELS (MAX. 1 1/2" WIDE) AT CASEWORK SIDES & TOPS. SCRIBE FILLERS TO WALL & SECURE TO ADJACENT SURFACE. SEAL CASEWORK FILLERS TO ADJACENT WALL.
- PROVIDE A MINIMUM 3/8" THICK INSTALLATION RAIL FOR MOUNTING CABINERY TO WALL, EXCEPT WHERE 1/2" THICK MATERIAL IS PROVIDED.
- GENERAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF SINK DRAINAGE CONNECTION PRIOR TO ORDERING PLUMBING FIXTURES
- GENERAL CONTRACTOR TO COORDINATE OPENING IN COUNTERTOP FOR ALL PLUMBING FIXTURES.
- PROTECT EXISTING FLOOR FINISHES PRIOR TO DEMOLITION AND THROUGHOUT INSTALLATION OF NEW CABINET WORK. CLEAN FLOOR BY A PROFESSIONAL CLEANING COMPANY.
- ALL COUNTERTOPS TO BE 1" EPOXY RESIN CHEMICAL RESISTANT
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- ALL CABINETS TO BE MADE OF PLYWOOD
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SPECIFIC CABINETRY NOTES "1"

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- 4" WIRE PULL TO MATCH EXISTING
- CABINET BACKS TO BE 3/4" PLYWOOD
- HOLES DRILLED FOR ADJUSTABLE SHELVES AT 1-1/4" O.C. PROVIDE SHELF PINS TO ACCOMMODATE 3/4" SHELVES
- PLASTIC LAMINATE ADJUSTABLE SHELVES
- HIGH BACKSPLASH AT BACK OF COUNTER, RETURN SPLASH WHERE PERPENDICULAR WALL ABUTS CABINET
- NOT USED
- PLASTIC LAMINATE AT UPPER CABINET SHELVING (3/4" THICK PLYWOOD-TYP)
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- CHEMICAL RESISTANT EPOXY RESIN BLACK SINKS TO MATCH EXISTING - SEE SHEET A1.5 FOR ADDITIONAL INFORMATION - REFER TO PLUMBING SHEET FOR FIXTURE SCHEDULES (TYP.)
- 4" INTEGRAL BASE
- ELECTRICAL RACEWAY FOR ELECTRICAL CONDUIT
- CORNER CABINET - PROVIDE ROTATING SHELVES TO MATCH EXISTING (TYP.)
- MACHINE SCRUB FLOORS BEFORE INSTALLING NEW CABINETS
- PROVIDE WOOD BLOCKING AS REQUIRED
- GLASS FRAME OPTIONAL - MATCH EXISTING CONDITIONS - COORDINATE WITH CLIENT
- FULL EXTENSION DRAWER SLIDE
- 1/4" PLYWOOD BACKING ON 1 X 3 HARDWOOD CABINET FRAME
- CABINET SUB BASE. SEPARATE AND CONTINUOUS P.T., 2X4 WITH CONCEALED FASTENING TO CABINET BOTTOM. INSET WITH 1/4" AT CABINET FINISHED ENDS FOR A RECESSED BASE CONDITION
- ELECTRICAL OUTLET - REFER TO ELECTRICAL SHEETS FOR SCOPE OF WORK
- 2X4 KNEE WALL AT 16" O.C.
- NEW WALL CABINET - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS

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DAVID L. TIPPIN WATER TREATMENT FACILITY
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PHASE 2 - INTERIOR CABINET ELEVATIONS

Anston-Greenlees, Inc.
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14015 W. Hillchase Court, Tampa, FL 33613
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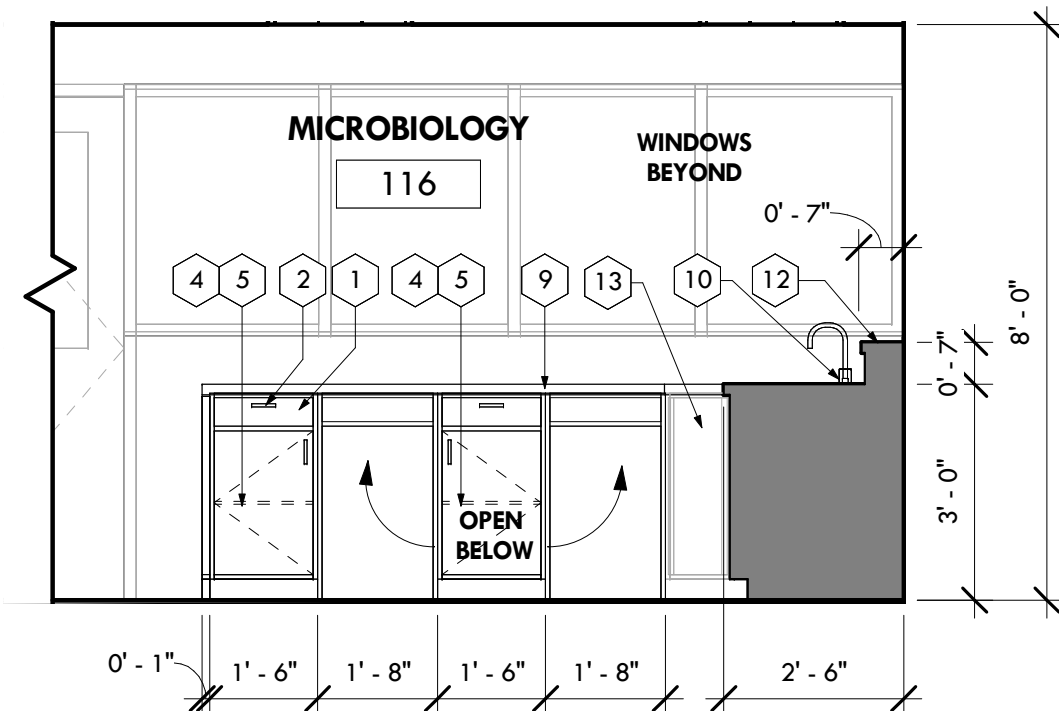
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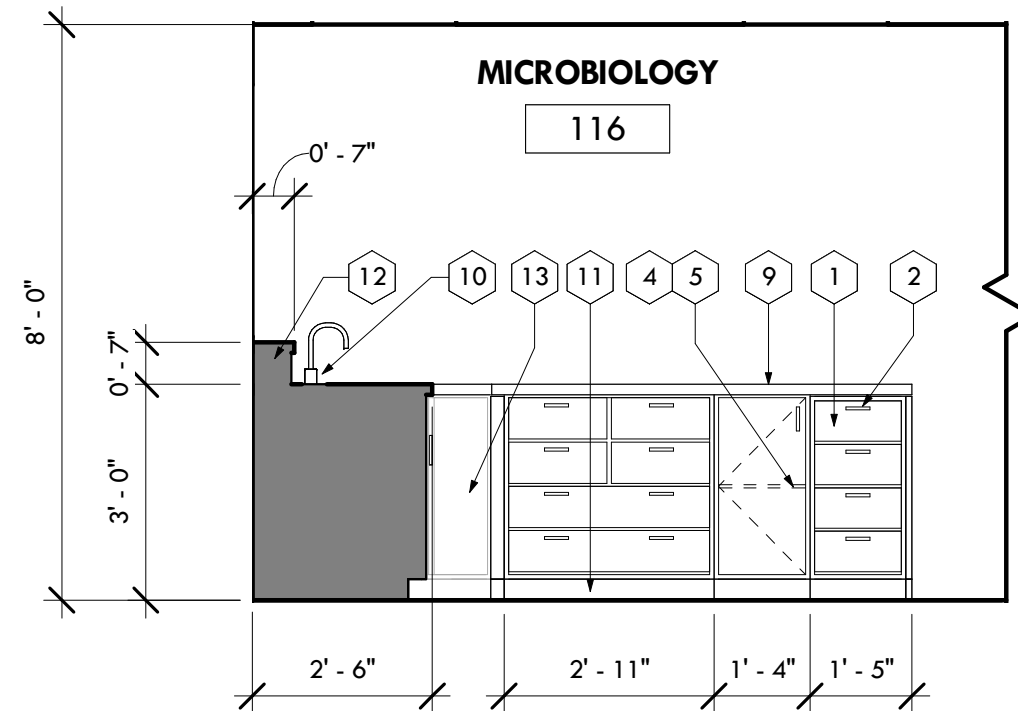
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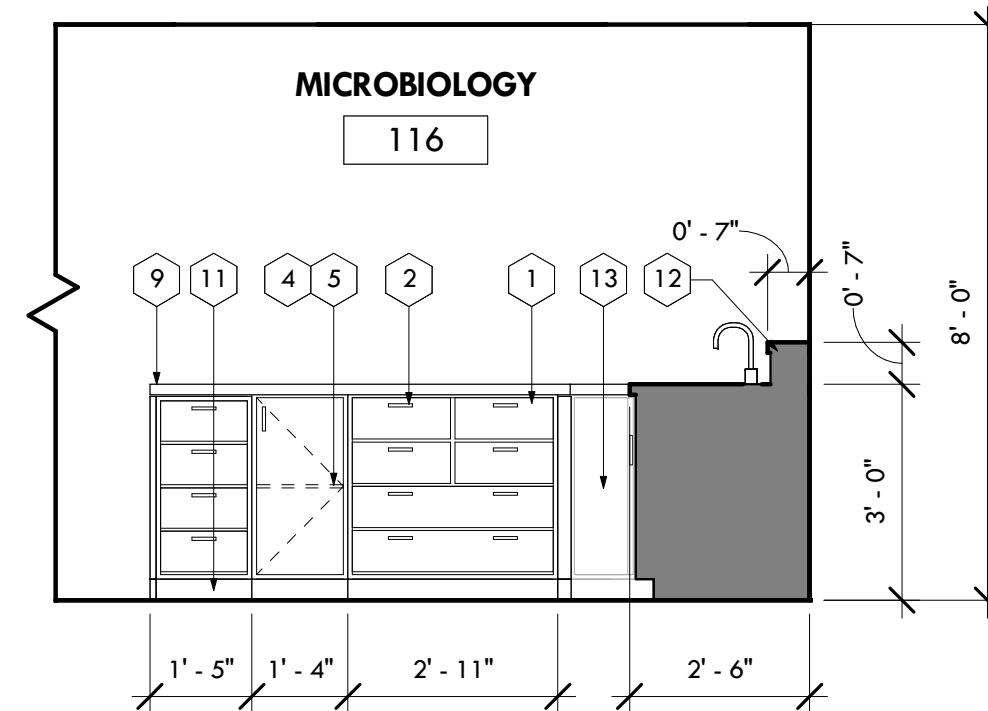
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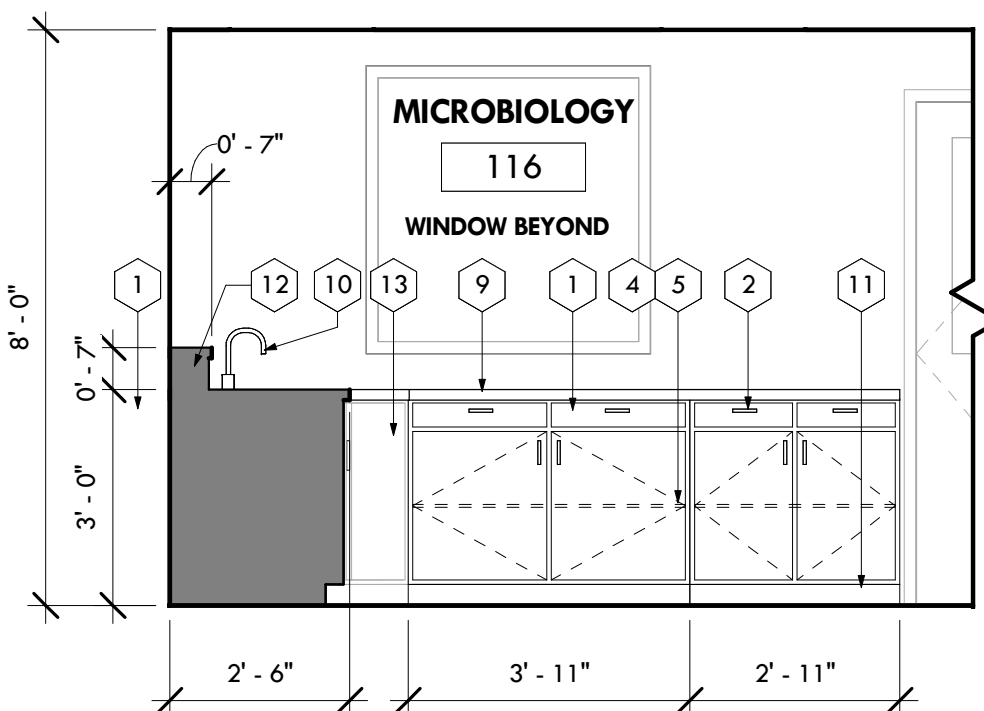
1 PHASE 2 - INTERIOR ELEVATIONS
3/8" = 1'-0"



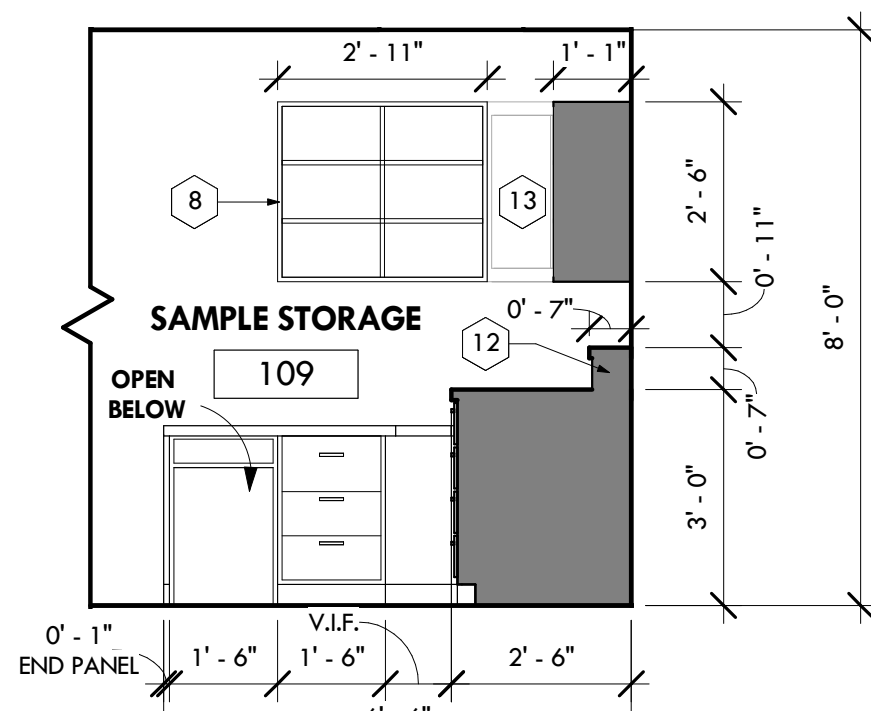
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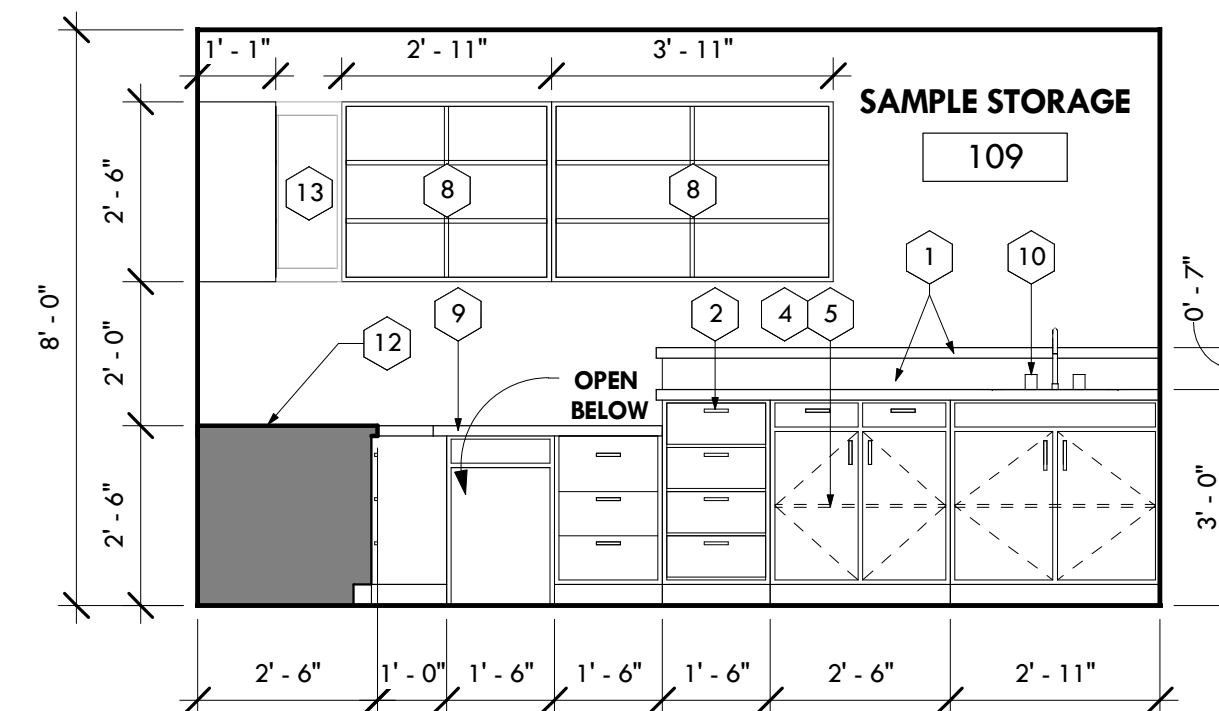
3 PHASE 2 - INTERIOR ELEVATIONS
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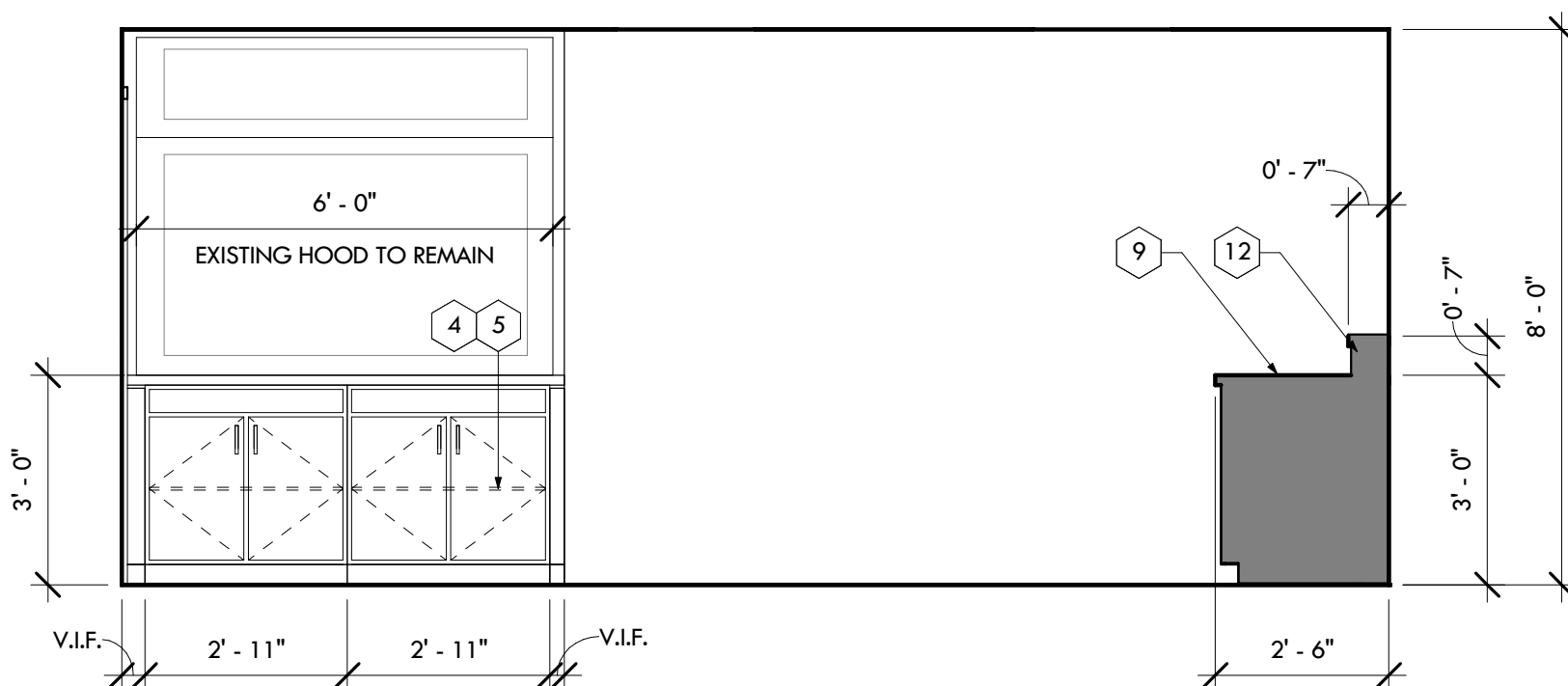
4 PHASE 2 - INTERIOR ELEVATIONS
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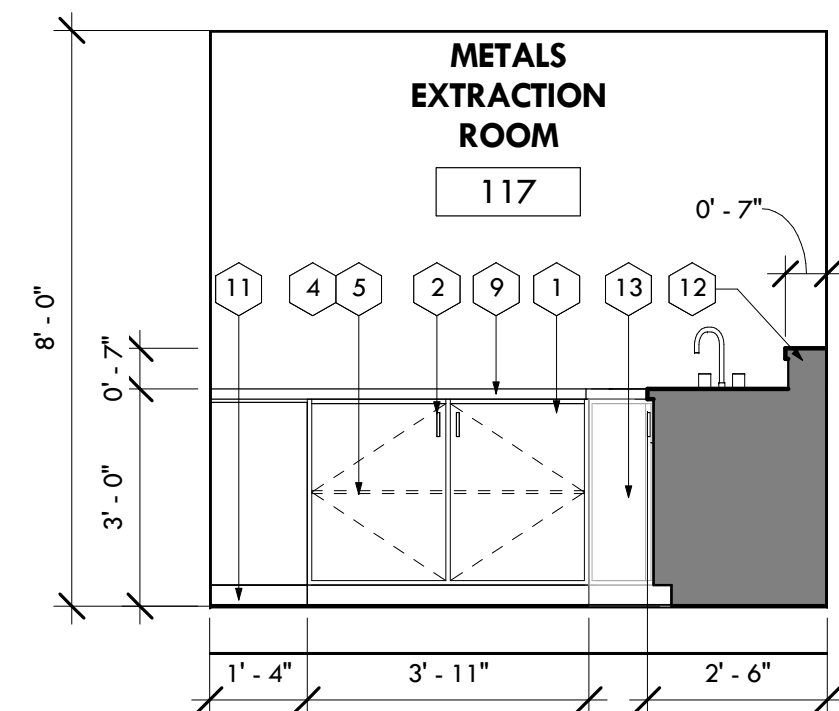
5 PHASE 2 - INTERIOR ELEVATIONS
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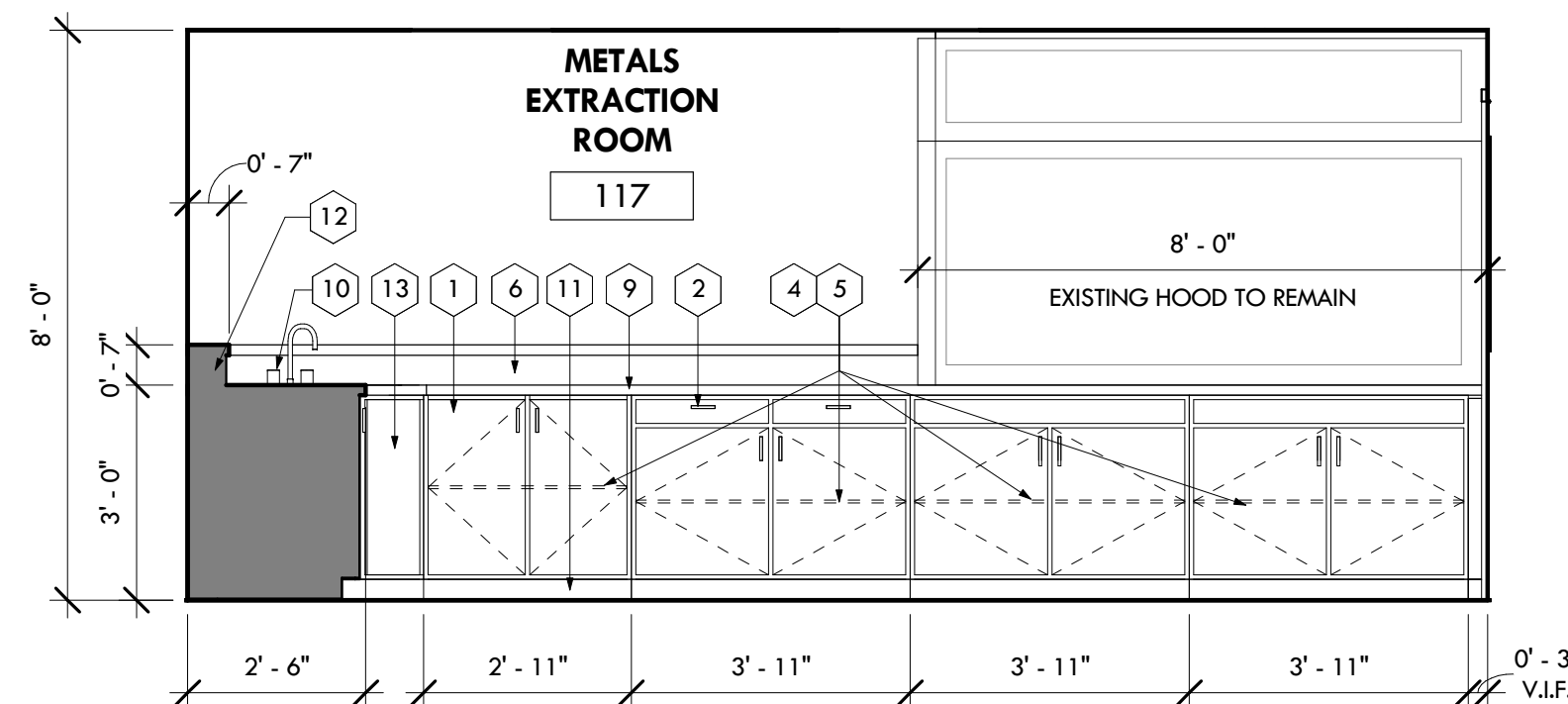
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REVISIONS	BY

DAVID L. TIPPIN WATER TREATMENT FACILITY
LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

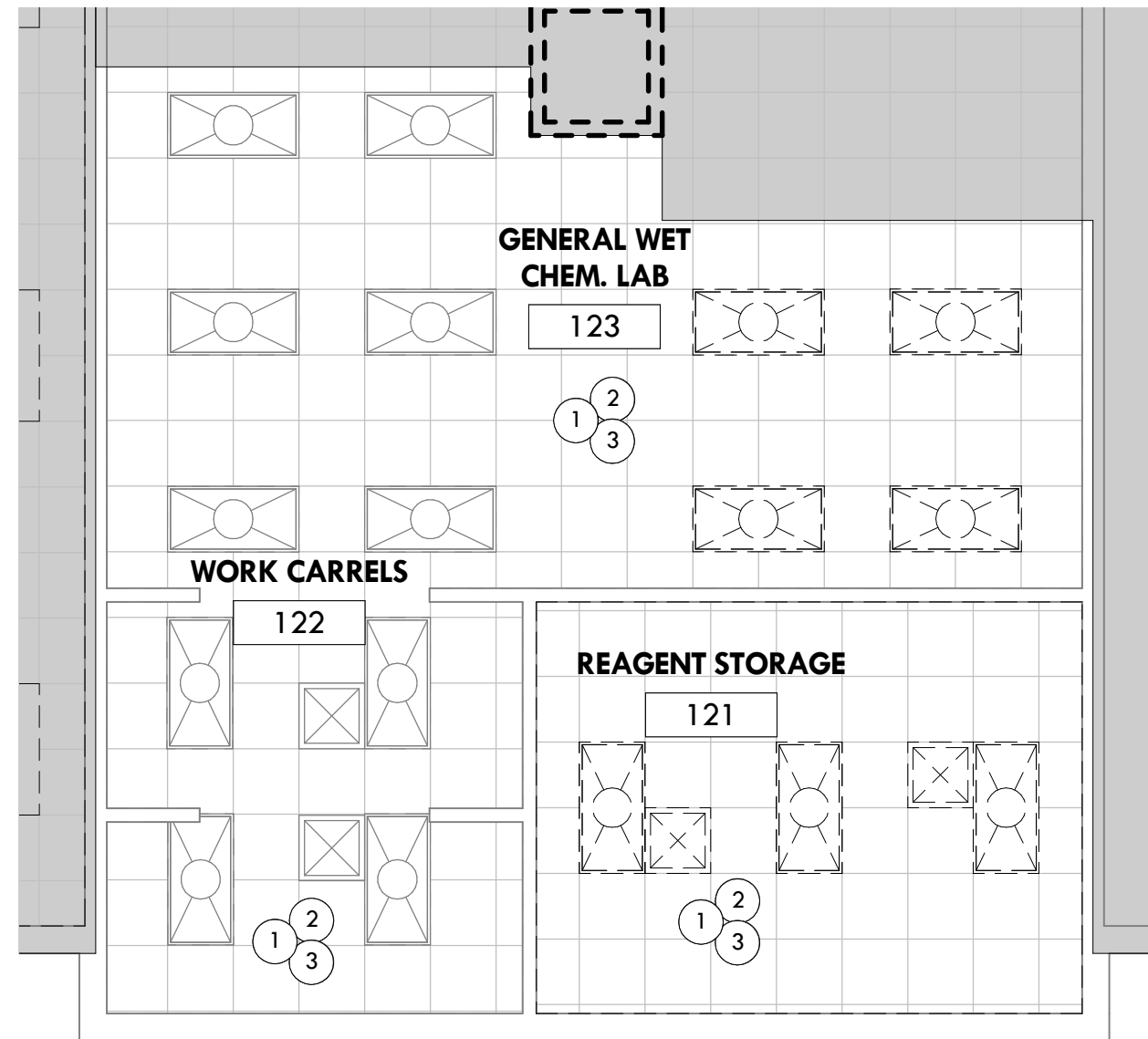
PHASE 2 - INTERIOR CABINET ELEVATIONS
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5005 WEST LAUREL STREET, SUITE 215
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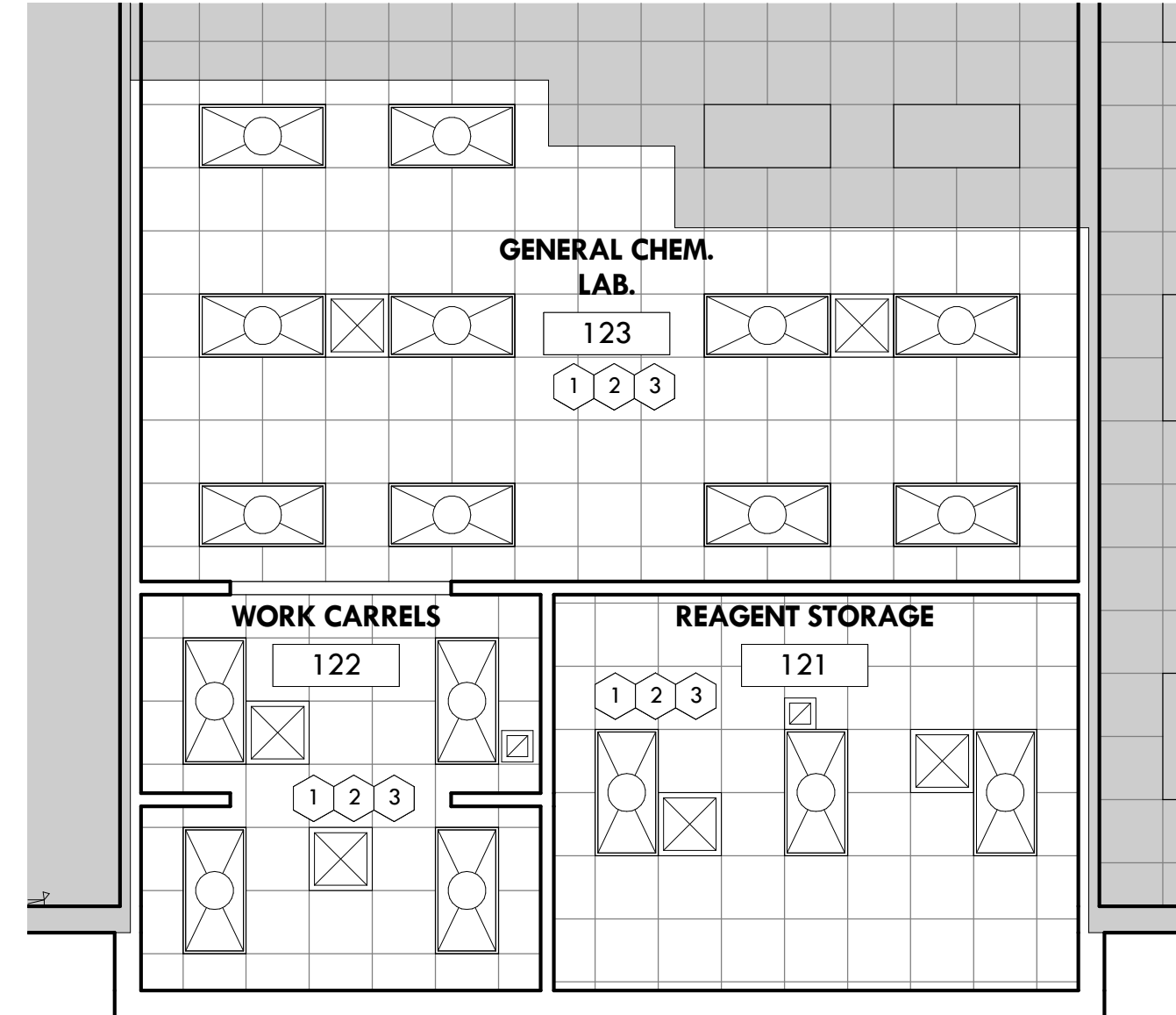
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AGI PROJECT	13009
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A1.2.4

ENRIQUE A. WOODROFFE, FAIA, LEED
FLORIDA LICENSE AR 0007703



① PHASE 3-DEMOLITION CEILING PLAN
3/16" = 1'-0"



② PHASE 3-RENOVATION CEILING PLAN
3/16" = 1'-0"

GENERAL NOTES

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4. PROTECT ALL FLOOR FINISHES PRIOR TO COMMENCEMENT OF WORK
5. REMOVE ALL CEILING TILES AND LIGHTING FIXTURES PER PHASE PLAN - PROVIDE HUMIDITY RESISTANT CEILING TILE AND GRID
6. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING DIFFUSERS, EXIT LIGHTS, LIGHTS, ETC.

DEMO PLAN NOTES " O "

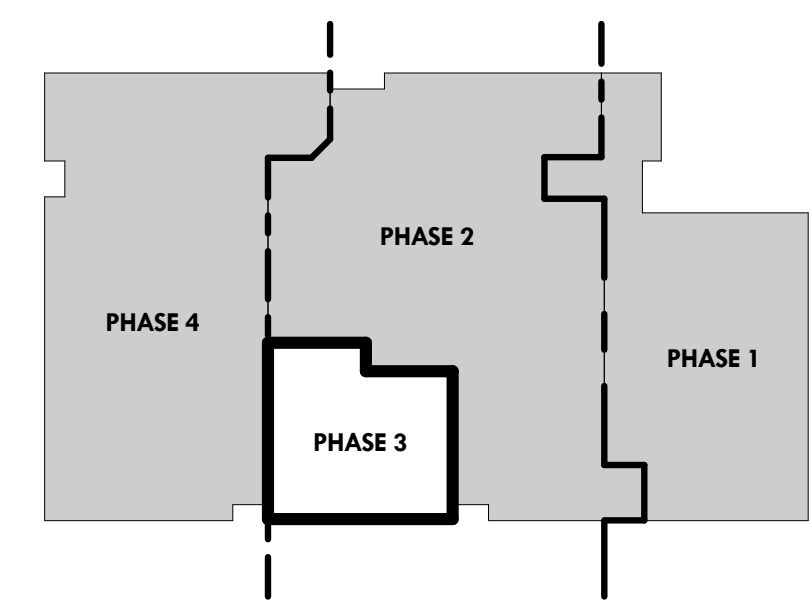
1. REMOVE EXISTING ACUSTICAL SUSPENDED CEILING
2. REMOVE EXISTING LIGHT FIXTURES
3. REMOVE EXISTING MECHANICAL SYSTEM - SEE MECHANICAL SHEETS FOR SCOPE OF WORK
4. EXISTING HOOD TO REMAIN
5. REMOVE EXISTING ABANDONED SKYLIGHT - REMOVE FRAMING - PROTECT EXISTING CURB AND WATERPROOFING TO AVOID WATER INTRUSION CAUSED BY DEMOLITION

RENOVATION PLAN NOTES " O "

1. NEW ACUSTICAL SUSPENDED CEILING
2. NEW LIGHT FIXTURES - SEE ELECTRICAL SHEETS FOR SCOPE OF WORK
3. NEW MECHANICAL SYSTEM - SEE MECHANICAL SHEETS FOR SCOPE OF WORK

REVISIONS	BY

DAVID L. TIPPIN WATER TREATMENT FACILITY
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TAMPA, FL 33607
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100% CONSTRUCTION DOCUMENTS

PHASE 3 - REFLECTED CEILING PLANS

AGI
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Tampa, FL 33626
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www.agi-engineers.com
Florida Engineering Business Number 0001

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AGI PROJECT	13009
SHEET	A1.3.2

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DEMO PLAN NOTES " O "

- REMOVE EXISTING VINYL FENCE
- EXISTING HOOD TO REMAIN
- STRIP DOOR PANEL FINISH. PREPARE FOR PAINT AND STAIN. PREPARE METAL DOOR AND FRAME TO REPAIR
- EXISTING MECHANICAL EQUIPMENT TO REMAIN
- PREPARE TO REPAIR DOOR AND FRAME
- PREPARE TO REPAIR WALLS
- PROTECT FLOOR FINISHES
- REMOVE EXISTING CABINETS AND COUNTERTOPS
- REMOVE/RELOCATE EXISTING SINK - GC TO COORDINATE EFFORTS WITH CLIENT
- EXISTING CABINETS TO REMAIN

RENOVATION PLAN NOTES " O "

- PROVIDE WHITE EXTERIOR VINYL ENCLOSURE FENCE
- PROVIDE PAIR OF 3'-0" WHITE EXTERIOR VINYL GATES
- RE-STAIN WOOD DOORS, PAINT HOLLOW METAL FRAME AROUND DOOR AND FRAME AROUND WINDOW IF APPLICABLE
- ALL INTERIOR WALLS TO BE PAINTED - COLOR TO MATCH EXISTING
- PAINT DOOR AND FRAME
- REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR SCOPE OF WORK
- NEW BASE CABINETS AND CHEMICAL RESISTANT SOLID SURFACE COUNTERTOPS - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS
- NEW CHEMICAL RESISTANT SINK, NEW PLUMBING FIXTURES TO MATCH EXISTING - SEE MECH/PLUMB. SHEETS FOR FIXTURE SCHEDULE
- RECONNECT EXISTING HOOD - COORDINATE WITH HOOD MANUFACTURER AND OWNER
- PROVIDE NEW ELECTRICAL RACEWAY FOR ELECTRICAL CONDUIT
- PAINT SLAB'S EDGE WITH YELLOW AND BLACK WARNING STRIPES AT STEP 12. REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR SCOPE OF WORK
- CLEAN FLOORS AND BASE - USE PROFESSIONAL CLEANING SERVICE. REMOVE STAINS WHERE POSSIBLE
- NEW WALL CABINET - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS

REVISIONS	BY

DAVID L. TIPPIN WATER TREATMENT FACILITY
 LABORATORY HVAC REPLACEMENT AND RENOVATION
 7125 NORTH 30TH STREET, TAMPA, FL 33610

PHASE 4 - PLANS
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 14015 W. 31st Ave., Suite 100, Fort Lauderdale, FL 33309
 (954) 349-1000
 www.ans-ton-greenlees.com
 Florida Engineering Business Number 0001

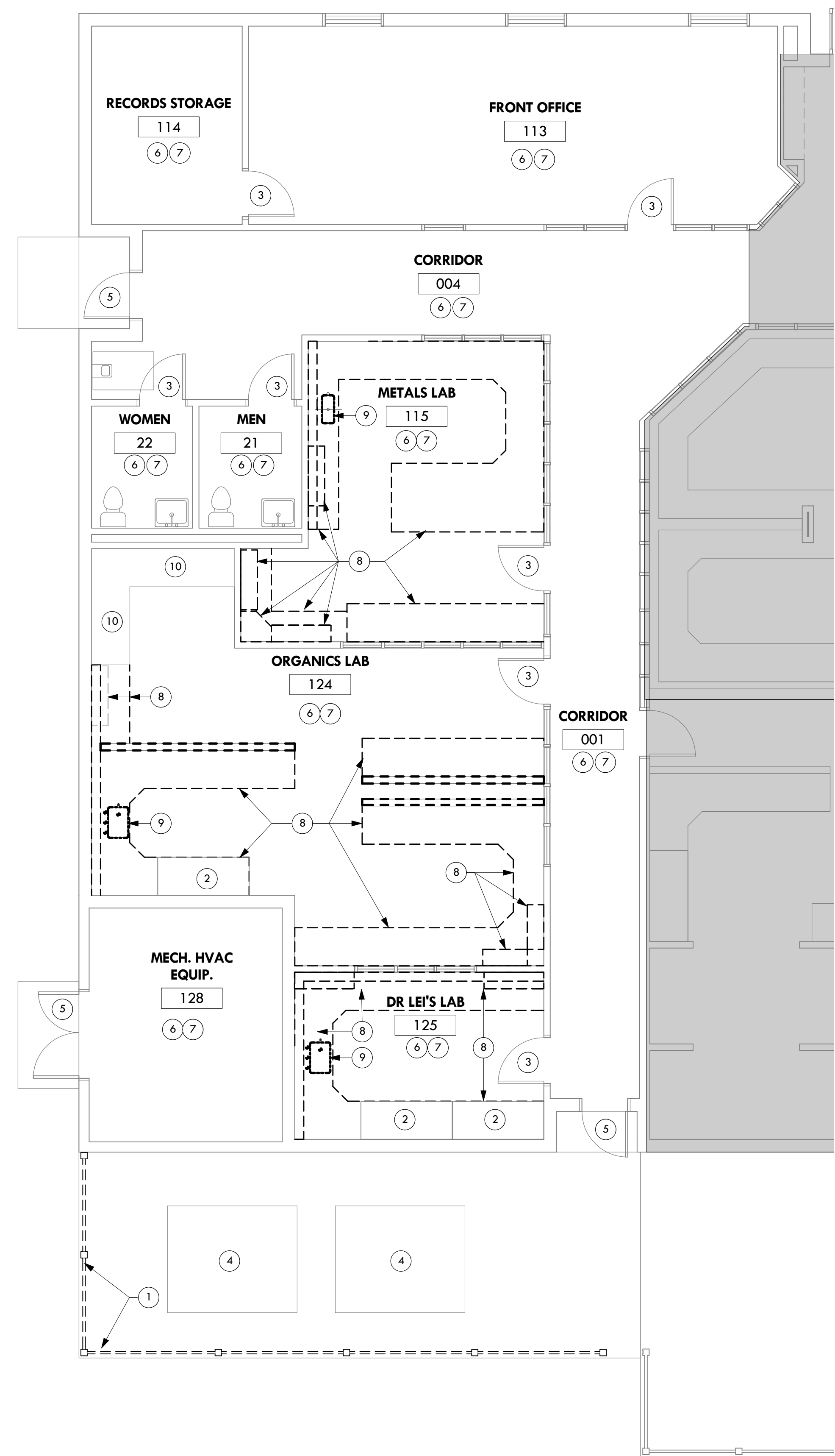
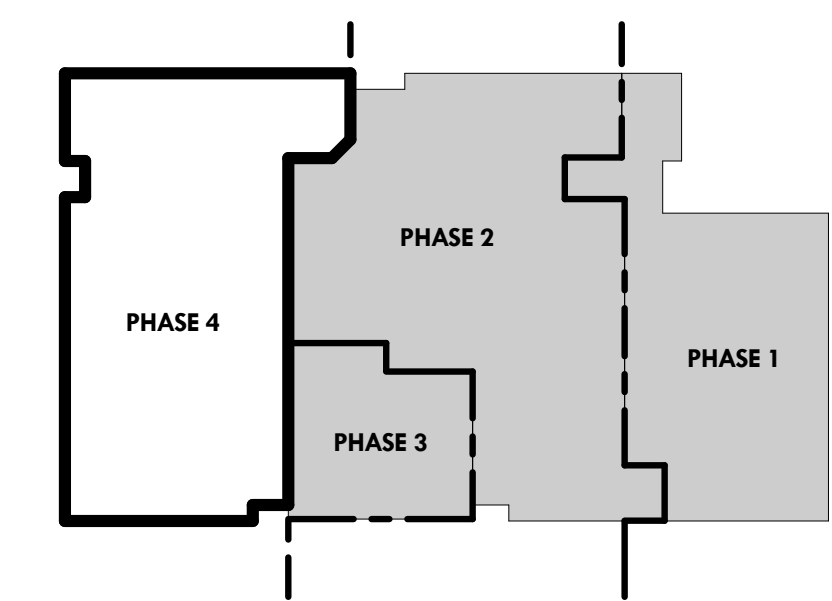
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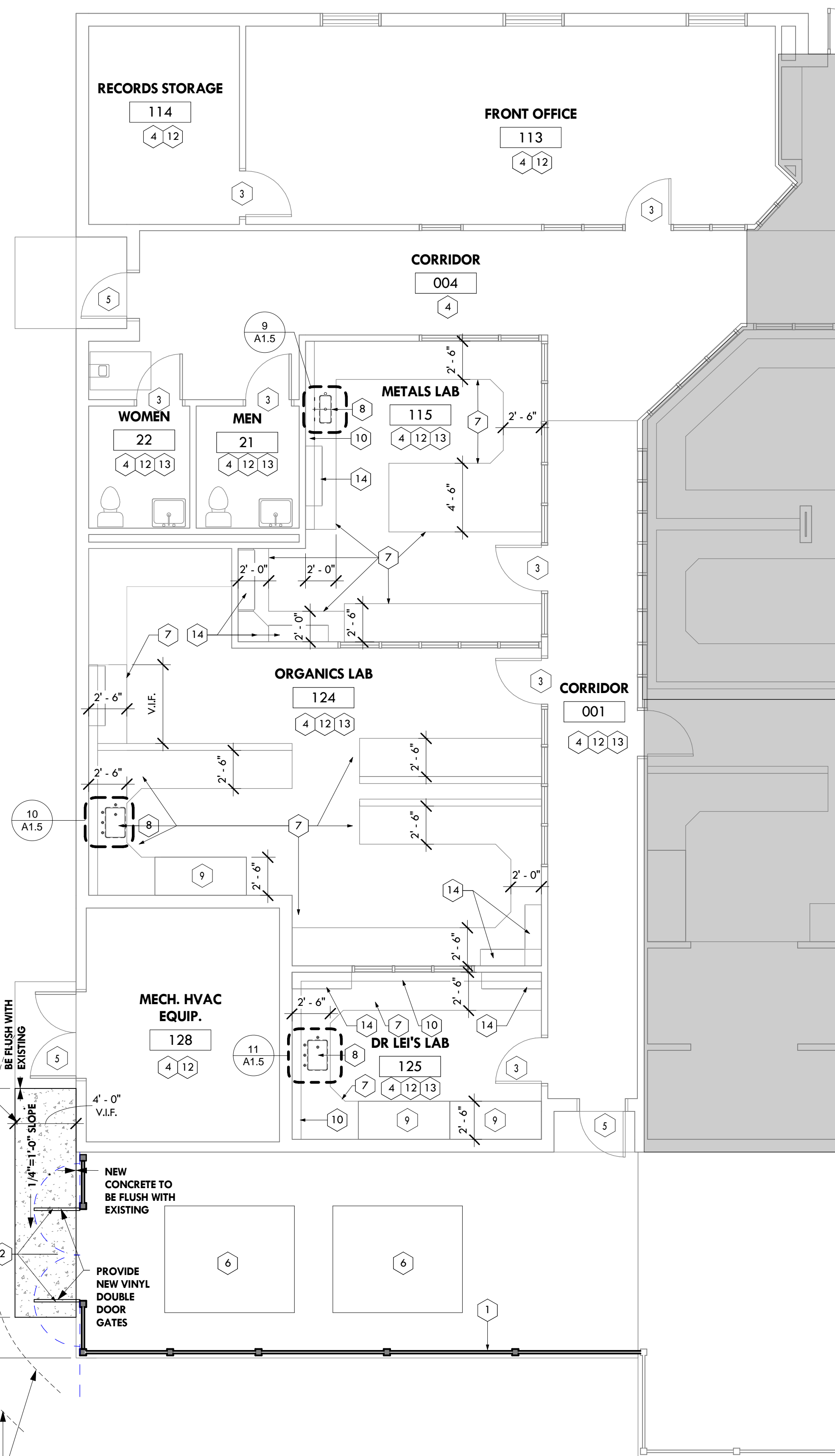
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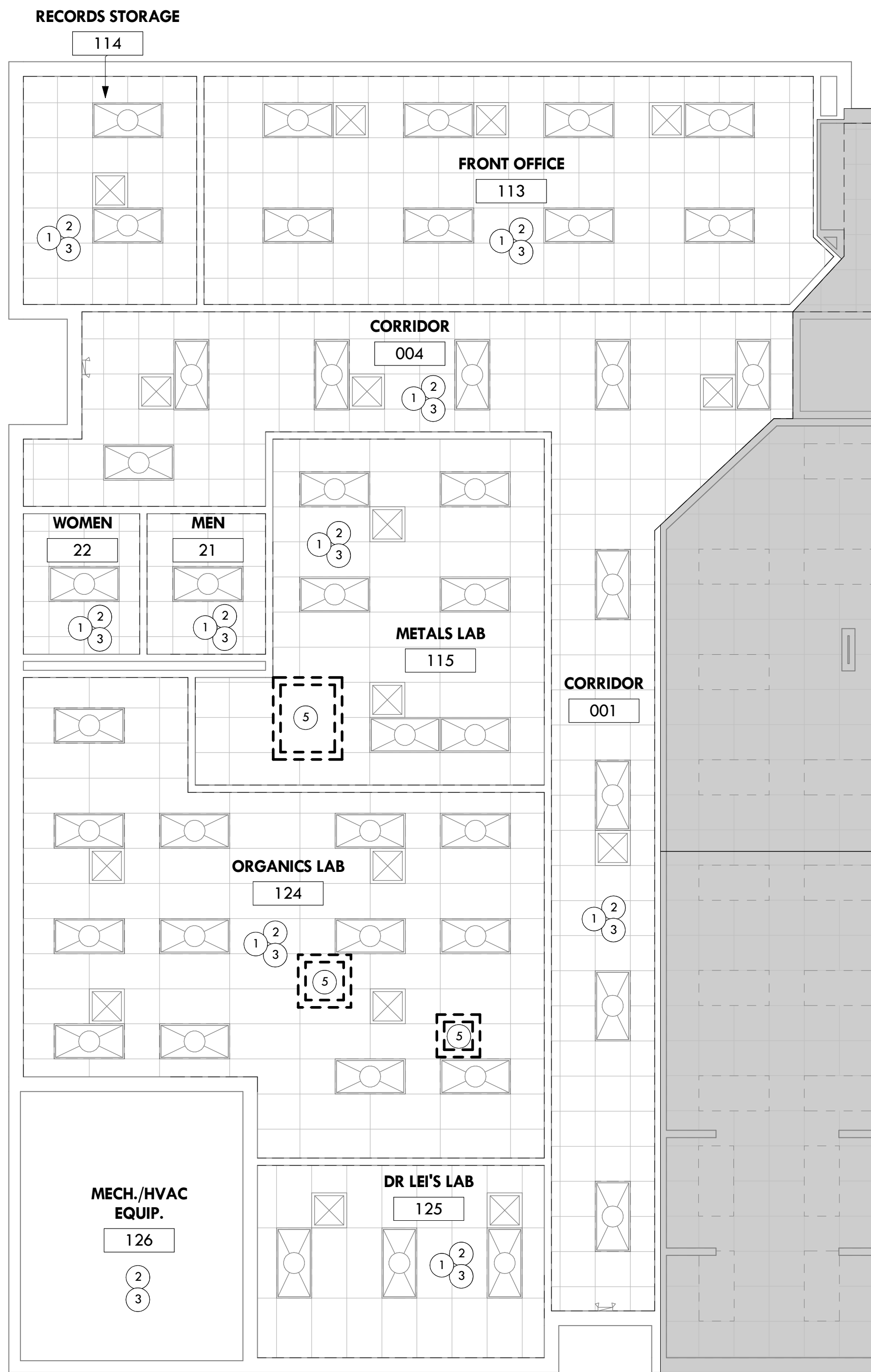


1 PHASE 4 - DEMOLITION PLAN
 3/16" = 1'-0"



2 PHASE 4- RENOVATION PLAN
 3/16" = 1'-0"

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① PHASE 4 - DEMOLITION CEILING PLAN
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3. PATCH AND PREPARE ALL INTERIOR WALLS FOR NEW PAINTING. PROTECT ALL ADJACENT SURFACES
4. PROTECT ALL FLOOR FINISHES PRIOR TO COMMENCEMENT OF WORK
5. REMOVE ALL CEILING TILES AND LIGHTING FIXTURES PER PHASE PLAN - PROVIDE HUMIDITY RESISTANT CEILING TILE AND GRID
6. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING DIFFUSERS, EXIT LIGHTS, LIGHTS, ETC.

DEMO PLAN NOTES "○"

1. REMOVE EXISTING ACUSTICAL SUSPENDED CEILING
2. REMOVE EXISTING LIGHT FIXTURES
3. REMOVE EXISTING MECHANICAL SYSTEM - SEE MECHANICAL SHEETS FOR SCOPE OF WORK
4. EXISTING HOOD TO REMAIN
5. REMOVE EXISTING ABANDONED SKYLIGHT - REMOVE FRAMING - PROTECT EXISTING CURB AND WATERPROOFING TO AVOID WATER INTRUSION CAUSED BY DEMOLITION

RENOVATION PLAN NOTES "◡"

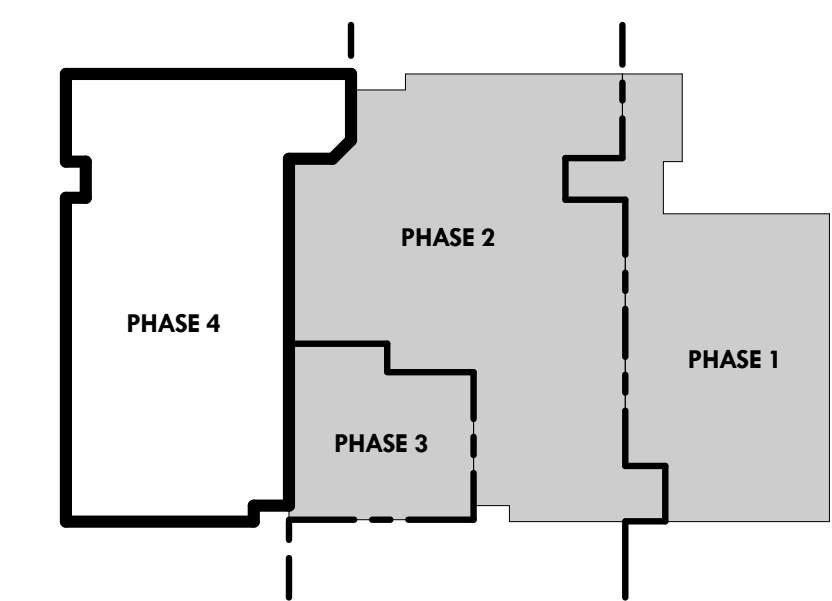
1. NEW ACUSTICAL SUSPENDED CEILING
2. NEW LIGHT FIXTURES - SEE ELECTRICAL SHEETS FOR SCOPE OF WORK
3. NEW MECHANICAL SYSTEM - SEE MECHANICAL SHEETS FOR SCOPE OF WORK

REVISIONS	BY

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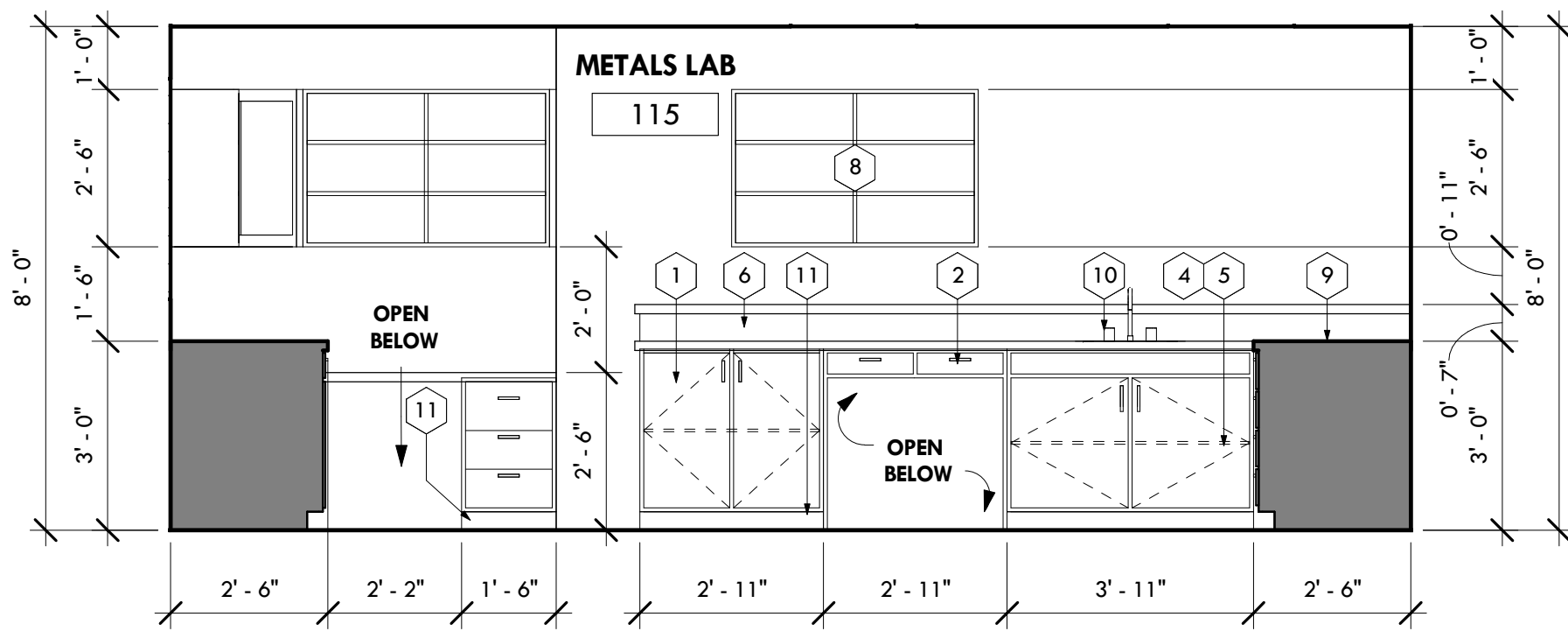
PHASE 4 - REFLECTED CEILING PLANS
 100% CONSTRUCTION DOCUMENTS
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 11010 W. Hillsborough Ave., Suite 200
 Tampa, FL 33610
 (813) 988-1100
 www.angreenlees.com
 Florida Engineering License Number 0001

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CHECKED	HW
DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	A1.4.2

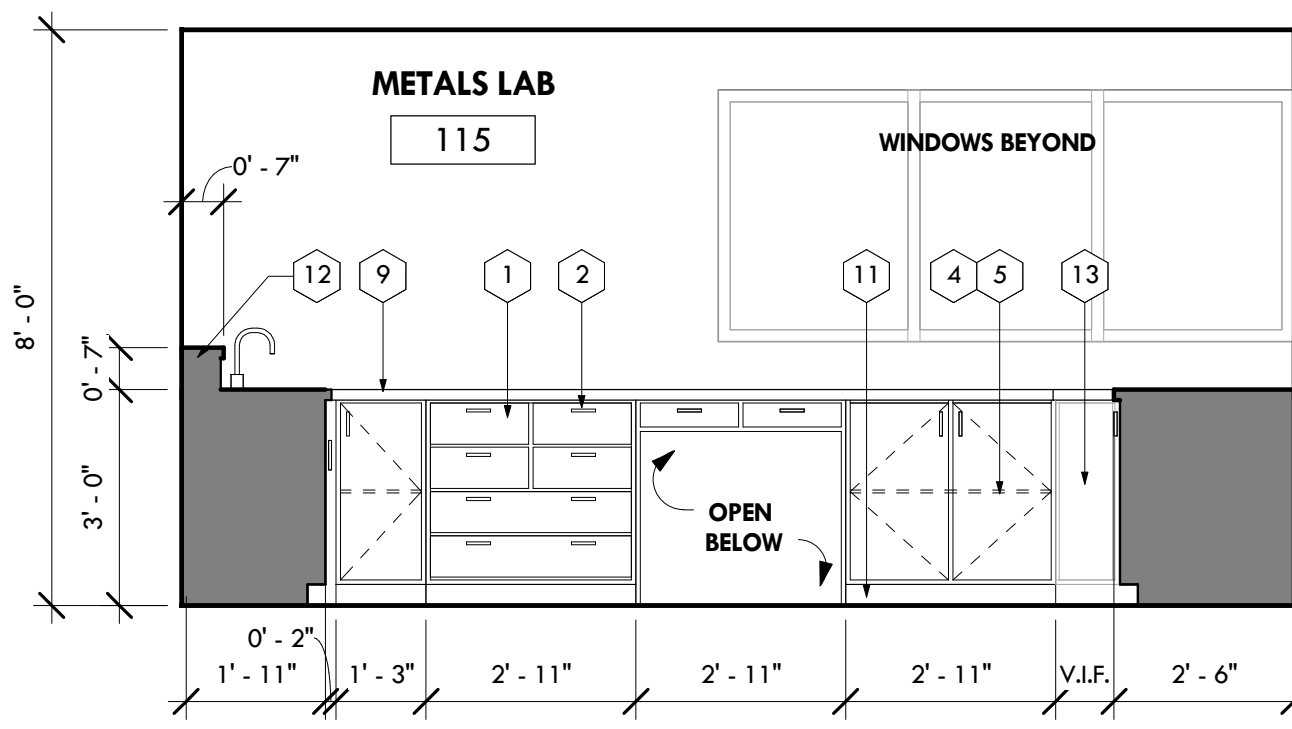


WOODROFFE CORPORATION ARCHITECTS
 5005 WEST LAUREL STREET, SUITE 215
 TAMPA, FL 33607
 813-281-0411
 FLORIDA LICENSE NUMBER AA C001379

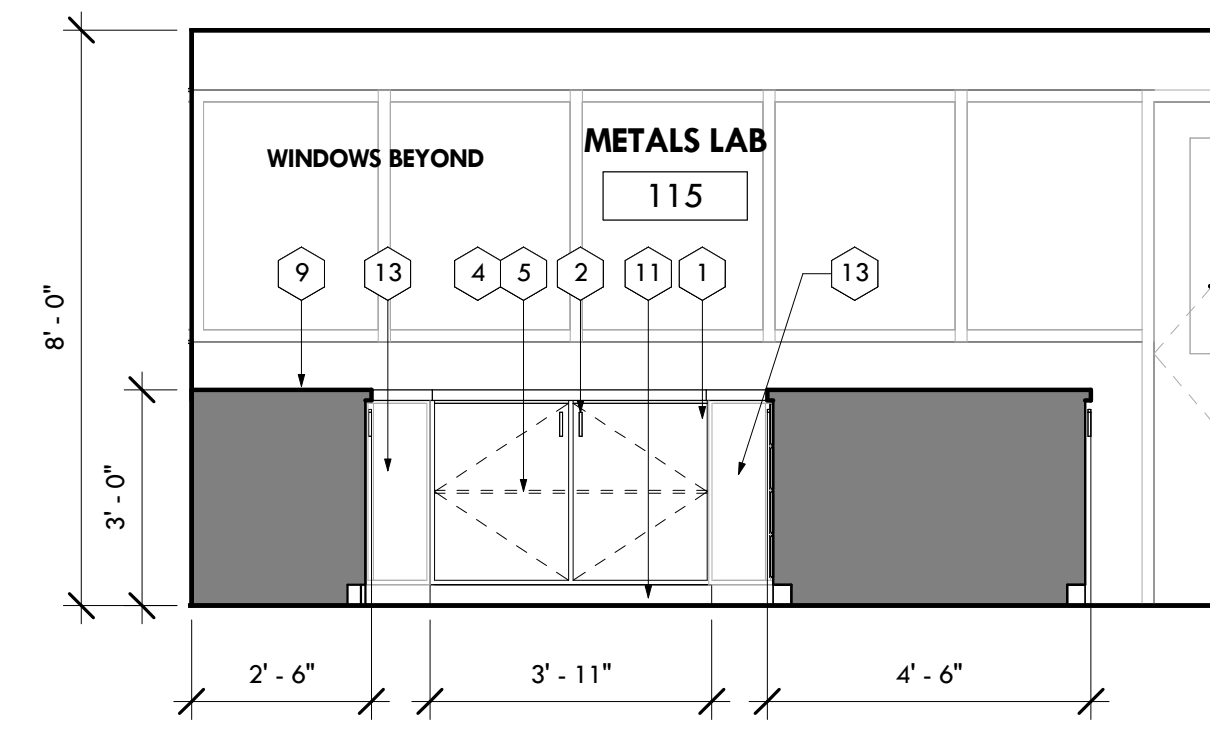
ENRIQUE A. WOODROFFE, FAIA, LEED
 FLORIDA LICENSE AR 0007703



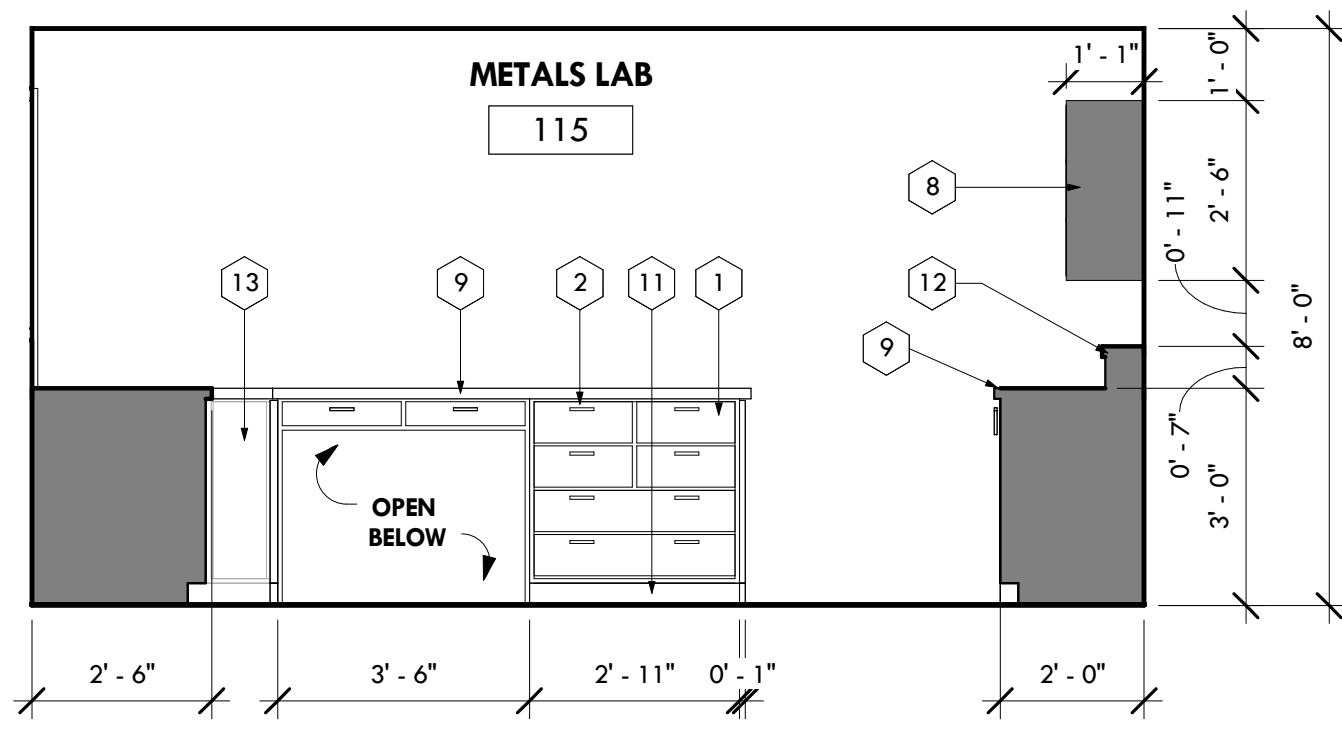
① PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



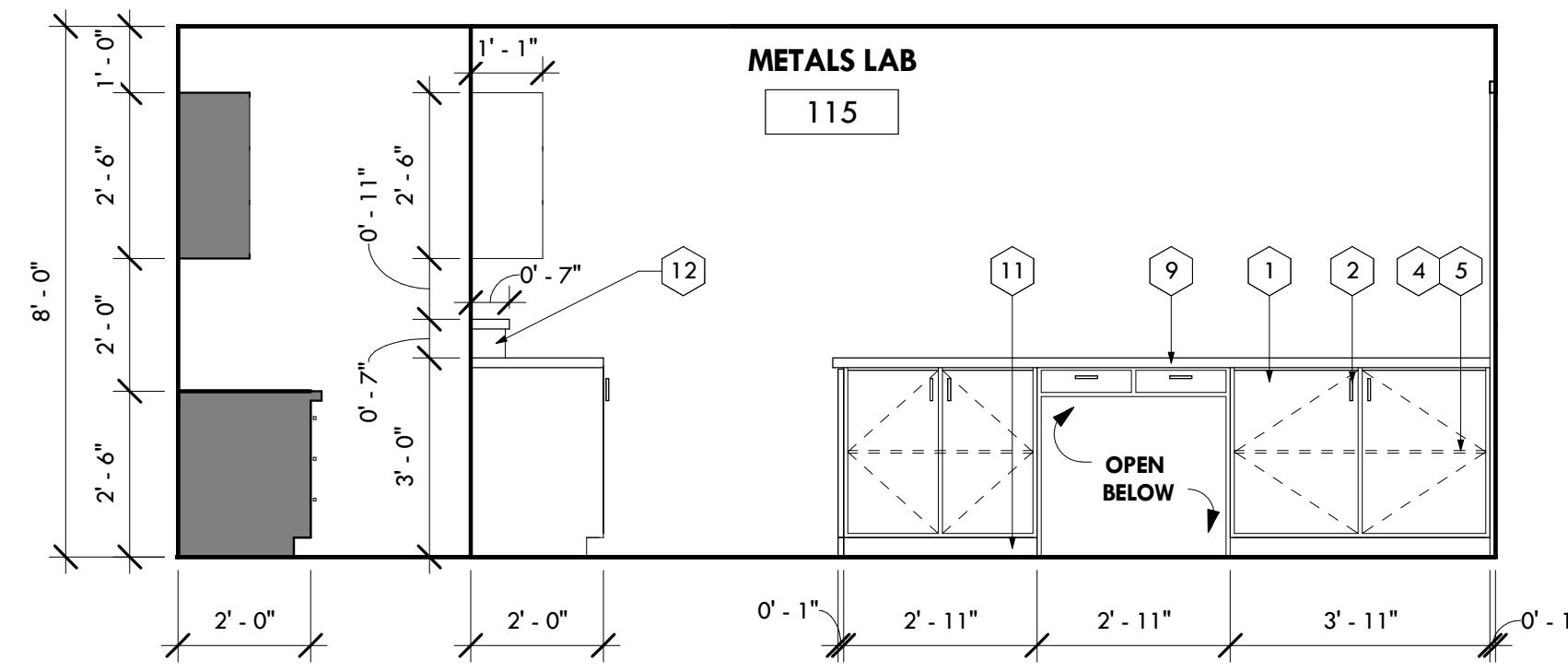
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3/8" = 1'-0"



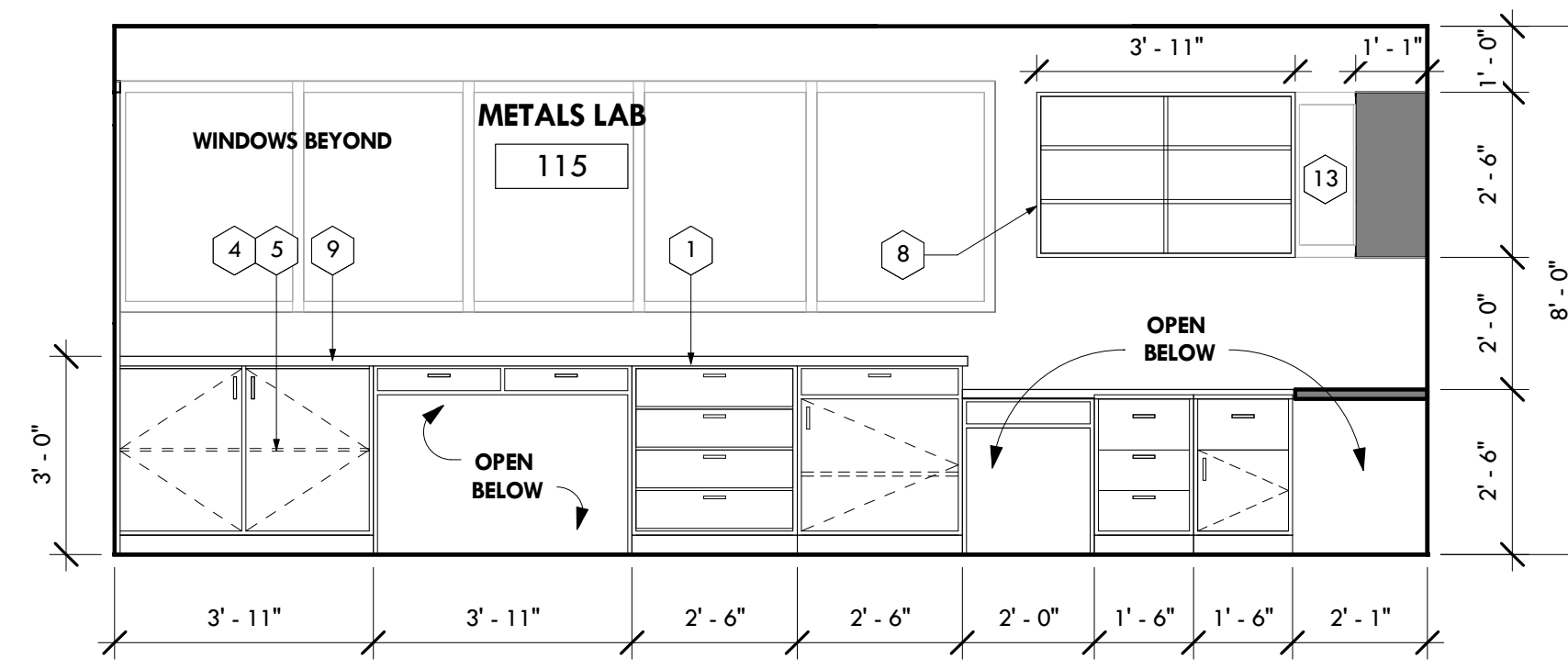
③ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



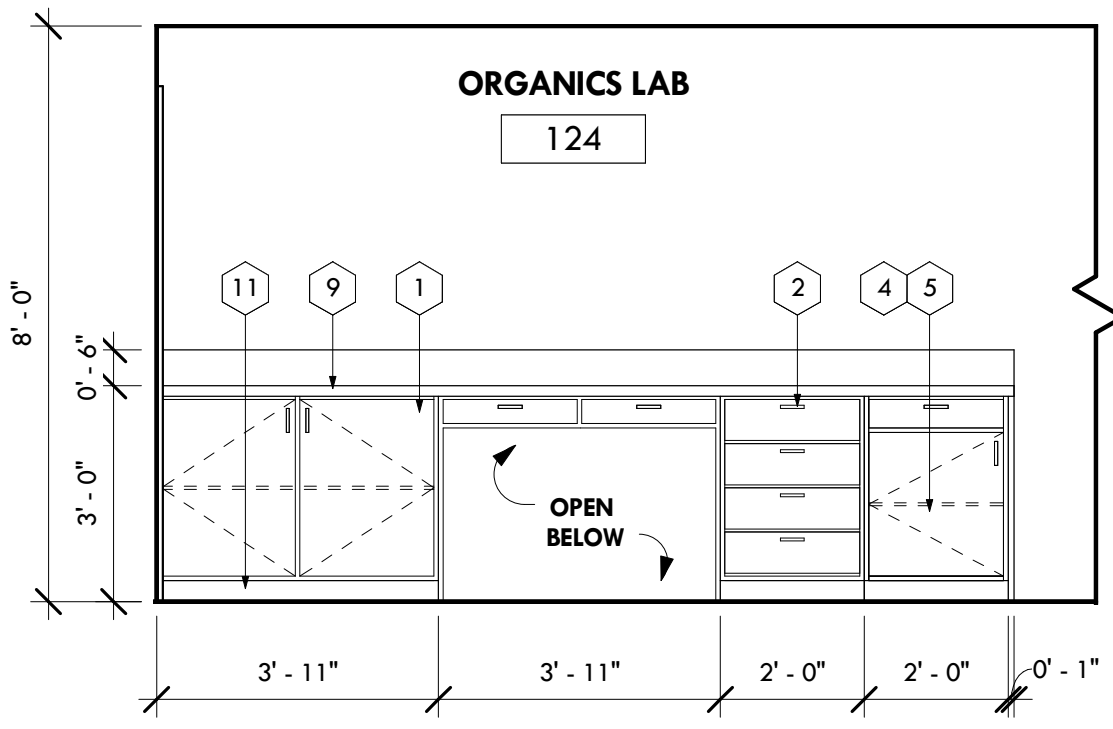
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3/8" = 1'-0"



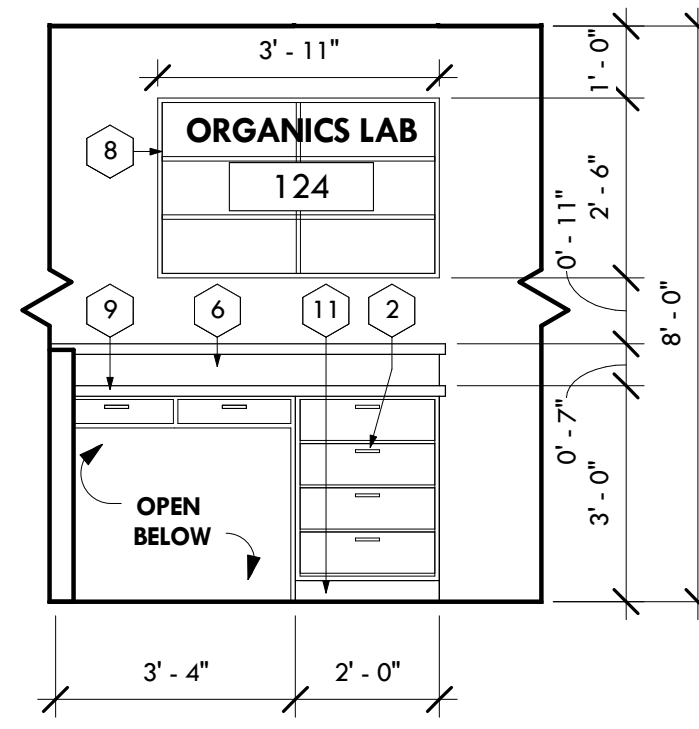
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3/8" = 1'-0"



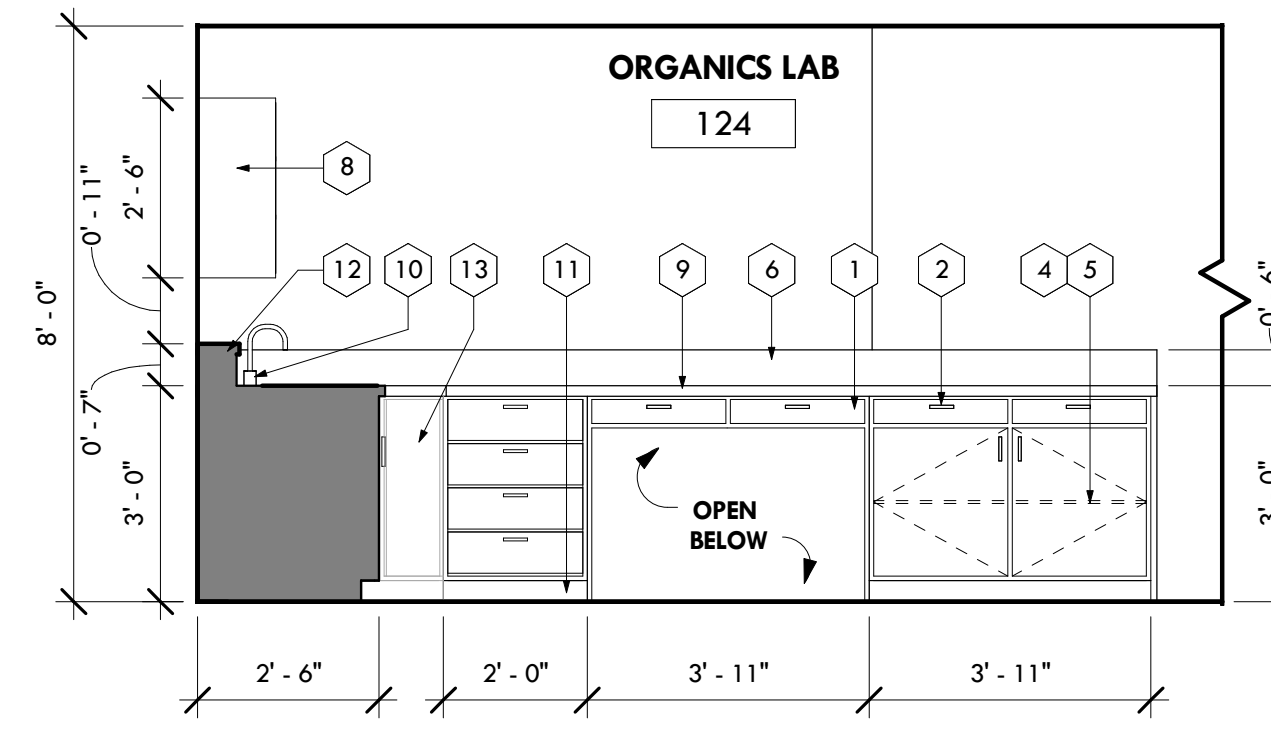
⑥ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



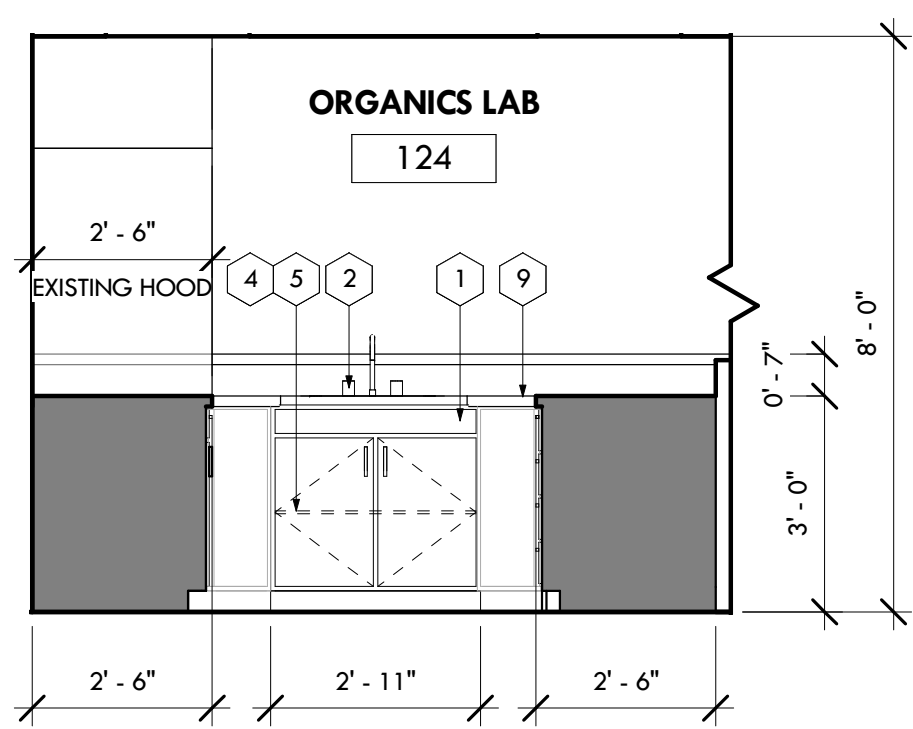
⑦ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



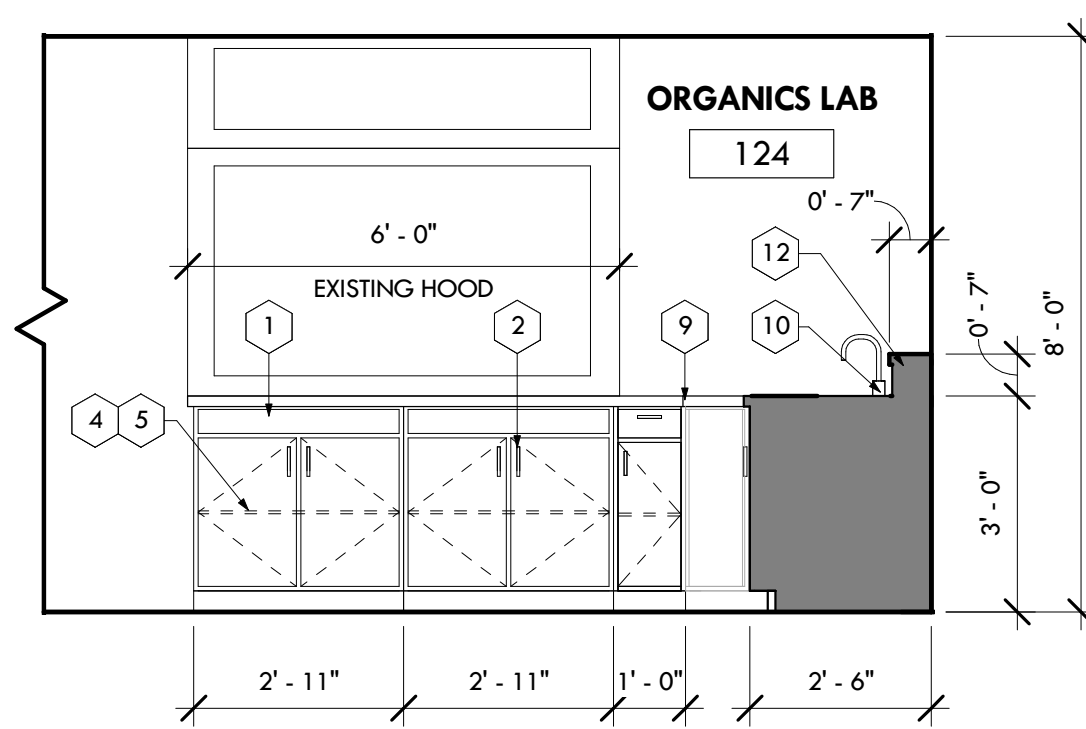
⑧ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



⑨ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



⑩ PHASE 4 - INTERIOR ELEVATIONS
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⑪ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"

GENERAL NOTES

- WOOD CABINETS ARE TO BE CERTIFIED BY AN INDEPENDENT AGENCY SIMILAR AIA. SEE SHEET A0.0 FOR LIST OF ARCHITECTURAL SYMBOLS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.
- ALL CASEWORK SHALL BE SQUARE, PLUMB AND TRUE.
- ALL EXPOSED AND SEMI-EXPOSED WOOD SURFACES TO HAVE PLASTIC LAMINATE FINISH.
- PROVIDE NYLON ROPE STOPS WHERE CABINET DOORS WOULD OTHERWISE HIT ADJACENT SURFACES.
- PROVIDE FILLER PANELS (MAX. 1 1/2" WIDE) AT CASEWORK SIDES & TOPS. SCRIBE FILLERS TO WALL & SECURE TO ADJACENT SURFACE. SEAL CASEWORK FILLERS TO ADJACENT WALL.
- PROVIDE A MINIMUM 3/8" THICK INSTALLATION RAIL FOR MOUNTING CABINETS TO WALL, EXCEPT WHERE 1/2" THICK MATERIAL IS PROVIDED.
- GENERAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF SINK DRAINAGE CONNECTION PRIOR TO ORDERING PLUMBING FIXTURES
- GENERAL CONTRACTOR TO COORDINATE OPENING IN COUNTERTOP FOR ALL PLUMBING FIXTURES.
- PROTECT EXISTING FLOOR FINISHES PRIOR TO DEMOLITION AND THROUGHOUT INSTALLATION OF NEW CABINET WORK. CLEAN FLOOR BY A PROFESSIONAL CLEANING COMPANY.
- ALL COUNTERTOPS TO BE 1" EPOXY RESIN CHEMICAL RESISTANT
- ALL SINKS TO BE EPOXY RESIN CHEMICAL RESISTANT
- ALL CABINETS TO BE MADE OF PLYWOOD
- REFER TO SHEET A1.5 FOR CABINET DETAILS

SPECIFIC CABINETRY NOTES " " "

- CHEMICAL RESISTANT PLASTIC LAMINATE AT ALL EXPOSED SURFACES ON 3/4" PLYWOOD (TYPICAL). PROVIDE WEAR FACTOR FINISH
- 4" WIRE PULL TO MATCH EXISTING
- CABINET BACKS TO BE 3/4" PLYWOOD
- HOLES DRILLED FOR ADJUSTABLE SHELVES AT 1-1/4" O.C. PROVIDE SHELF PINS TO ACCOMMODATE 3/4" SHELVES
- PLASTIC LAMINATE ADJUSTABLE SHELVES
- HIGH BACKSPLASH AT BACK OF COUNTER. RETURN SPLASH WHERE PERPENDICULAR WALL ABUTTS CABINET
- NOT USED
- PLASTIC LAMINATE AT UPPER CABINET SHELVING (3/4" THICK PLYWOOD-TYP)
- 1" CHEMICAL RESISTANT EPOXY RESIN BLACK COUNTER TOP (TYP.)
- CHEMICAL RESISTANT EPOXY RESIN BLACK SINKS TO MATCH EXISTING - SEE SHEET A1.5 FOR ADDITIONAL INFORMATION - REFER TO PLUMBING SHEET FOR FIXTURE SCHEDULES (TYP.)
- 4" INTEGRAL BASE
- ELECTRICAL RACEWAY FOR ELECTRICAL CONDUIT
- CORNER CABINET - PROVIDE ROTATING SHELVES TO MATCH EXISTING (TYP.)
- MACHINE SCRUB FLOORS BEFORE INSTALLING NEW CABINETS
- PROVIDE WOOD BLOCKING AS REQUIRED
- GLASS FRAME OPTIONAL - MATCH EXISTING CONDITIONS - COORDINATE WITH CLIENT
- FULL EXTENSION DRAWER SLIDE
- 1/4" PLYWOOD BACKING ON 1 X 3 HARDWOOD CABINET FRAME
- CABINET SUB BASE SEPARATE AND CONTINUOUS P.T. 2X4 WITH CONCEALED FASTENING TO CABINET BOTTOM. INSET WITH 1/4" AT CABINET FINISHED ENDS FOR A RECESSED BASE CONDITION
- ELECTRICAL OUTLET - REFER TO ELECTRICAL SHEETS FOR SCOPE OF WORK
- 2X4 KNEE WALL AT 16" O.C.
- NEW WALL CABINET - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS

REVISIONS	BY

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PHASE 4 - INTERIOR CABINET ELEVATIONS

AGI Anston-Greenlees, Inc.
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Phone: 813-281-0411 Fax: 813-281-0412
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Florida Engineering License Number 0001

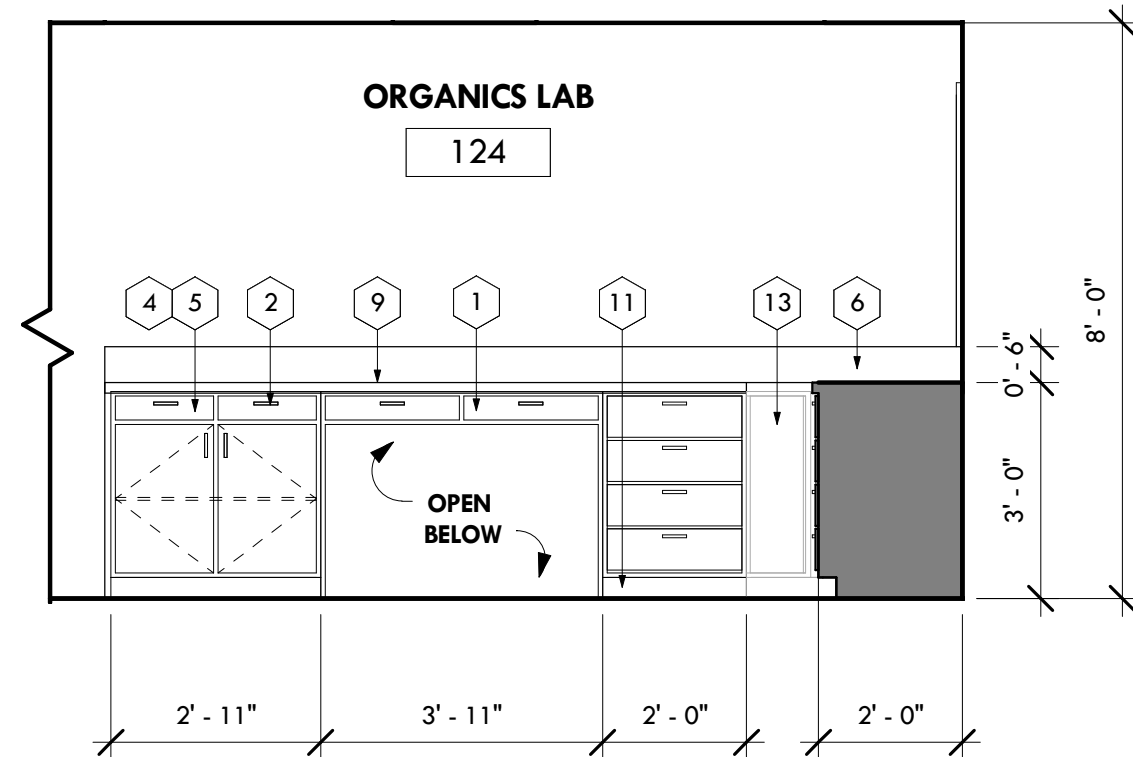
100% CONSTRUCTION DOCUMENTS

WOODROFFE CORPORATION ARCHITECTS
5005 WEST LAUREL STREET, SUITE 215
TAMPA, FL 33607
813-281-0411
FLORIDA LICENSE NUMBER AA C001379

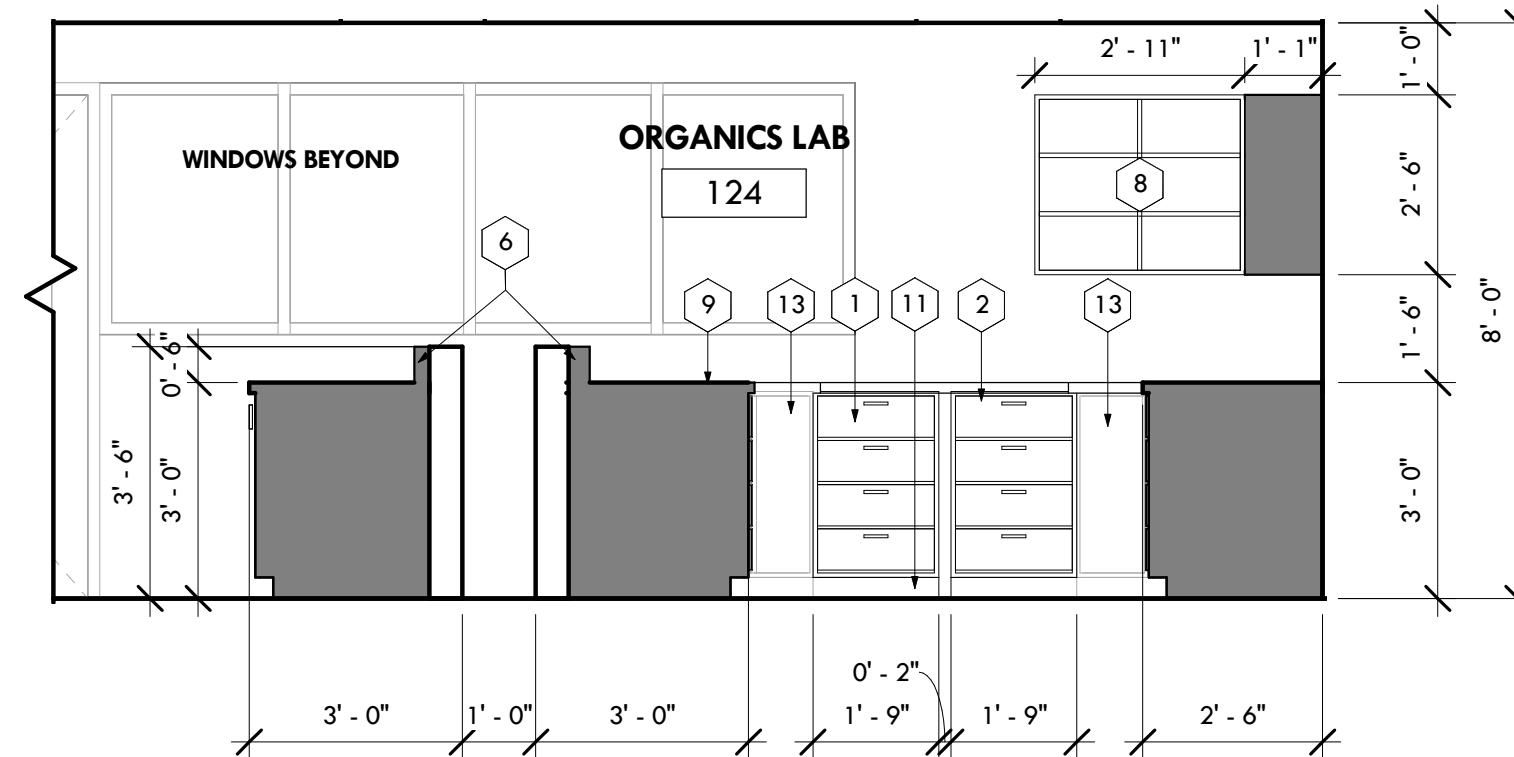
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AGI PROJECT	13009
SHEET	

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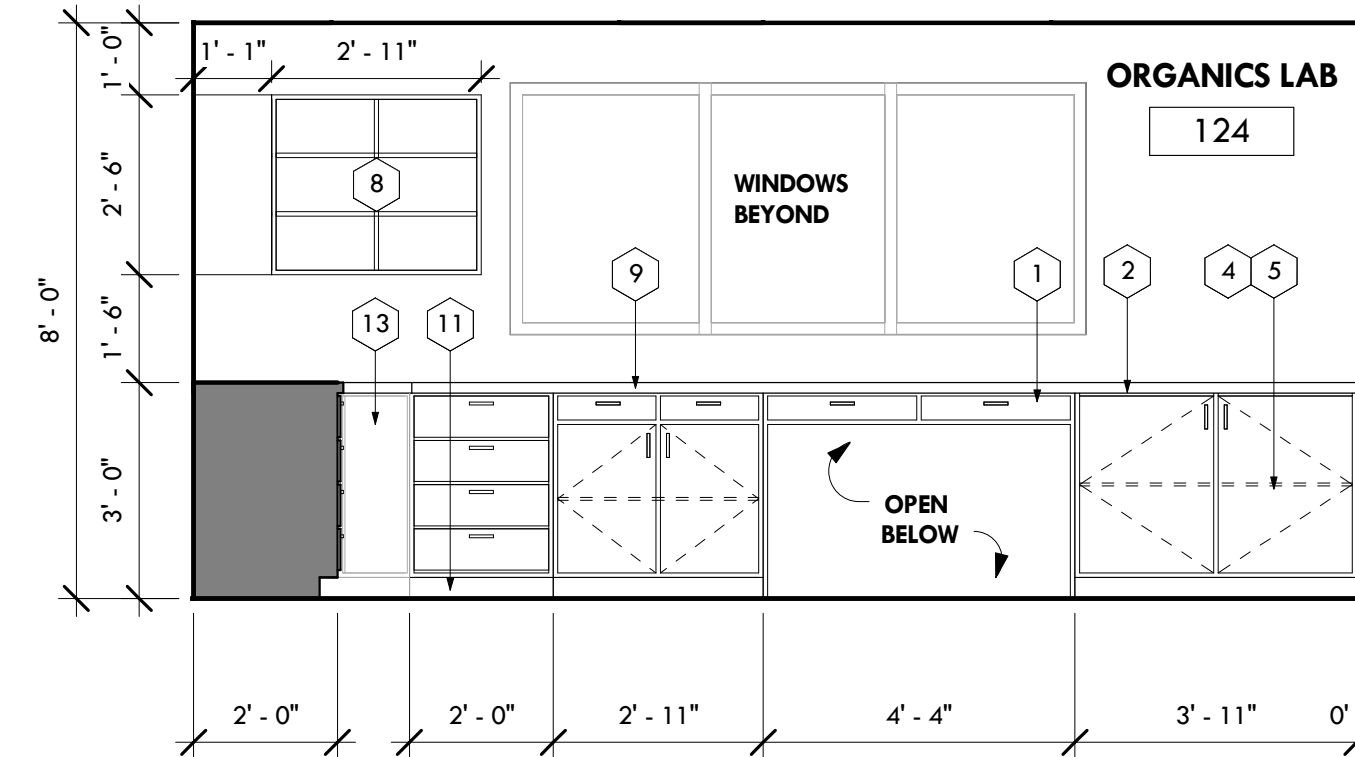
ENRIQUE A. WOODROFFE, FAIA, LEED
FLORIDA LICENSE AR 0007703



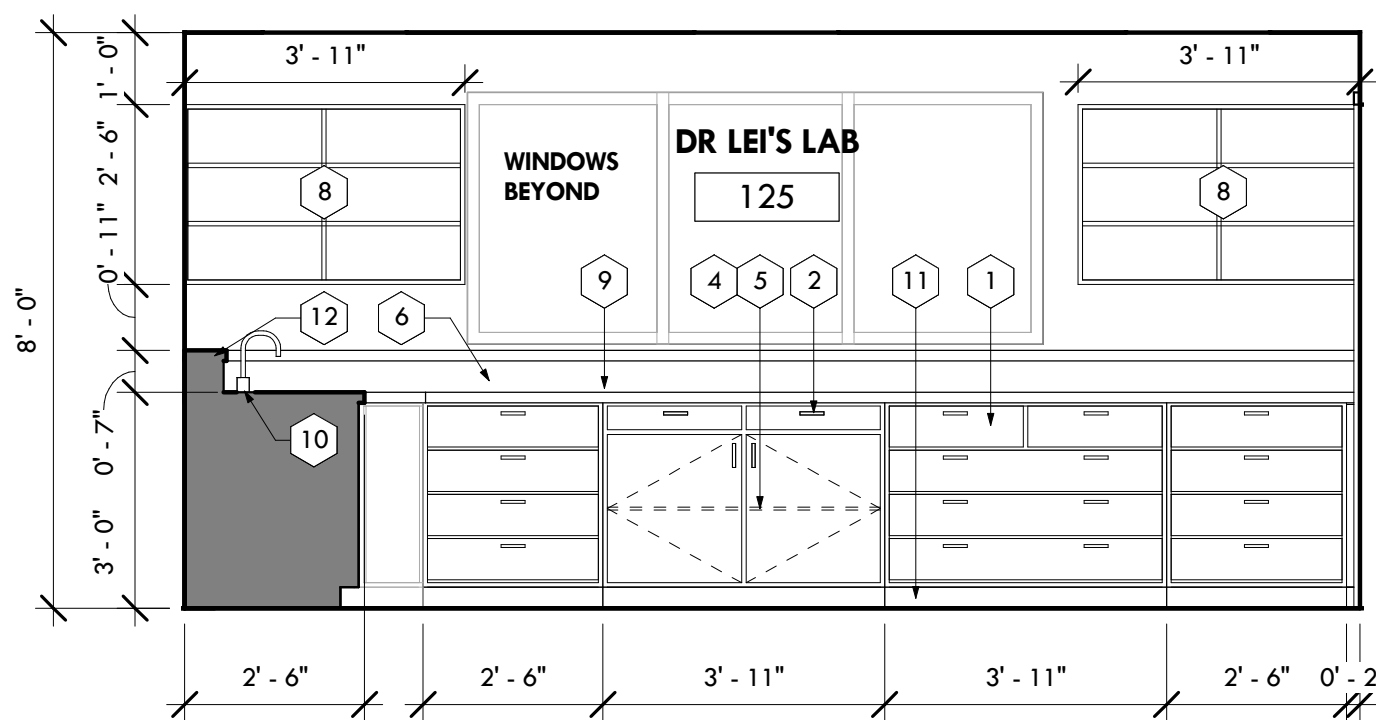
① PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



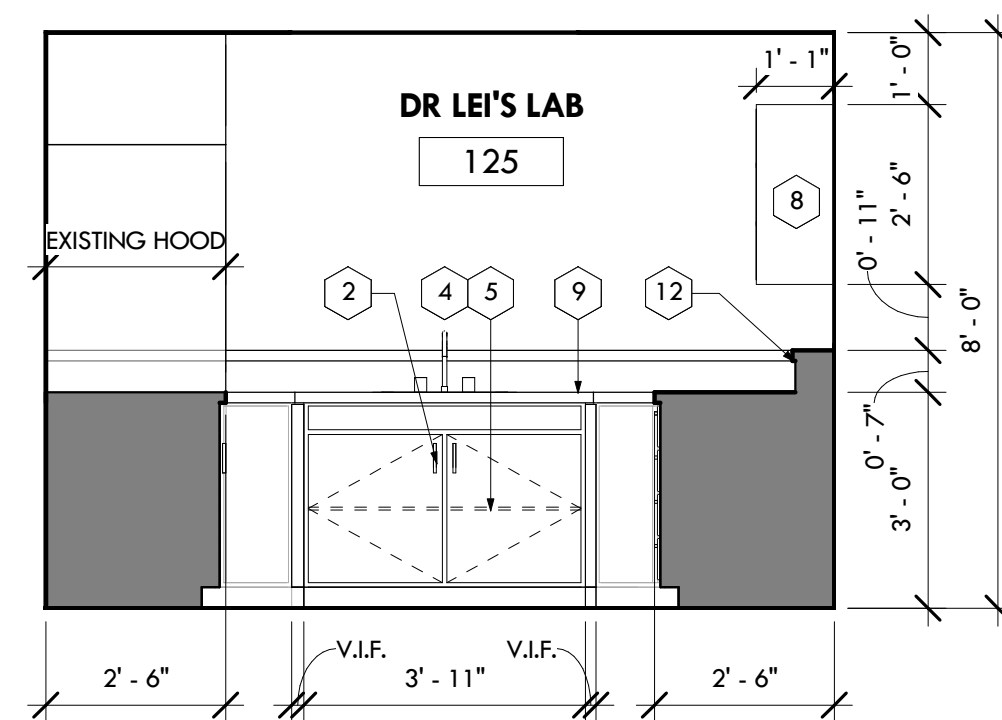
② PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



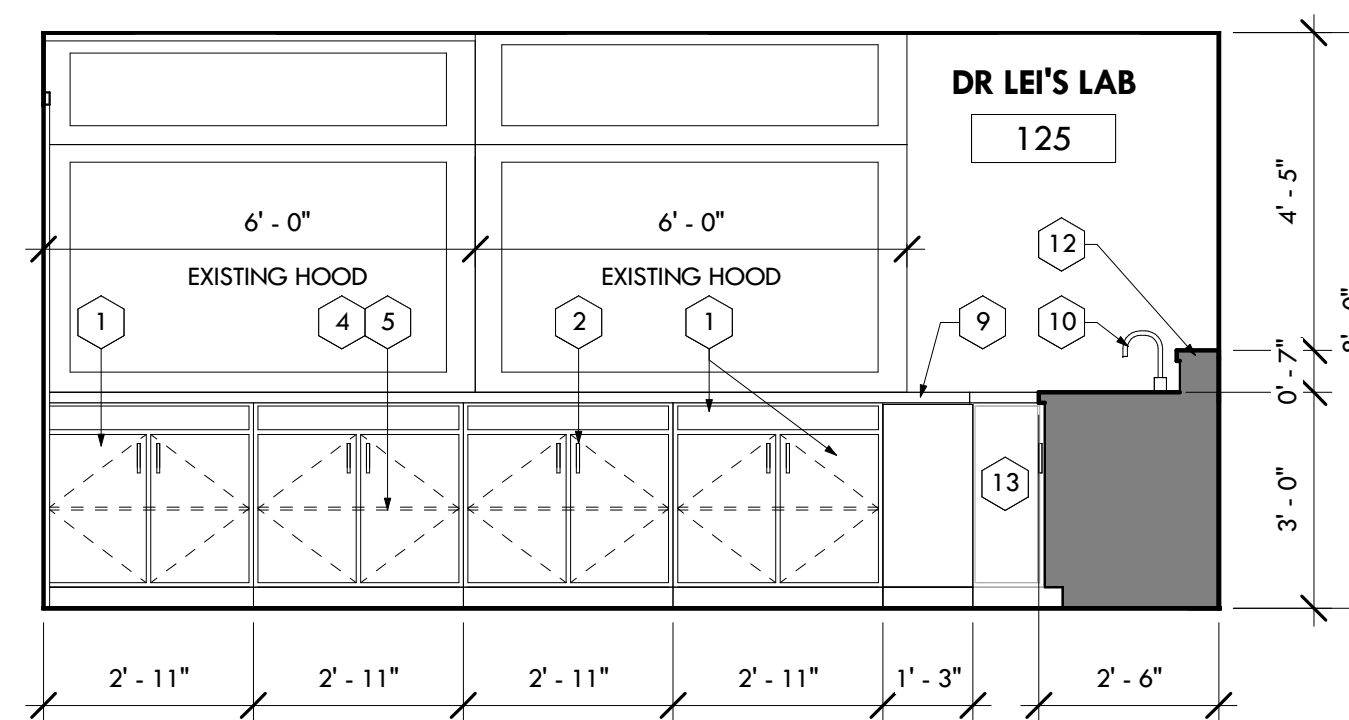
③ PHASE 4 - INTERIOR ELEVATIONS
3/8" = 1'-0"



④ PHASE 4 - INTERIOR ELEVATIONS
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⑤ PHASE 4 - INTERIOR ELEVATIONS
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⑥ PHASE 4 - INTERIOR ELEVATIONS
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- ALL SINKS TO BE EPOXY RESIN CHEMICAL RESISTANT
- ALL CABINETS TO BE MADE OF PLYWOOD
- REFER TO SHEET A1.5 FOR CABINET DETAILS

SPECIFIC CABINETRY NOTES

- CHEMICAL RESISTANT PLASTIC LAMINATE AT ALL EXPOSED SURFACES ON 3/4" PLYWOOD (TYPICAL). PROVIDE WEAR FACTOR FINISH
- 4" WIRE PULL TO MATCH EXISTING
- CABINET BACKS TO BE 3/4" PLYWOOD
- HOLES DRILLED FOR ADJUSTABLE SHELVES AT 1-1/4" O.C. PROVIDE SHELF PINS TO ACCOMMODATE 3/4" SHELVES
- PLASTIC LAMINATE ADJUSTABLE SHELVES
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- NOT USED
- PLASTIC LAMINATE AT UPPER CABINET SHELVING (3/4" THICK PLYWOOD - TYP.)
- 1" CHEMICAL RESISTANT EPOXY RESIN BLACK COUNTER TOP (TYP.)
- CHEMICAL RESISTANT EPOXY RESIN BLACK SINKS TO MATCH EXISTING - SEE SHEET A1.5 FOR ADDITIONAL INFORMATION - REFER TO PLUMBING SHEET FOR FIXTURE SCHEDULES (TYP.)
- 1/4" INTEGRAL BASE
- ELECTRICAL RACEWAY FOR ELECTRICAL CONDUIT
- CORNER CABINET - PROVIDE ROTATING SHELVES TO MATCH EXISTING (TYP.)
- MACHINE SCRUB FLOORS BEFORE INSTALLING NEW CABINETS
- PROVIDE WOOD BLOCKING AS REQUIRED
- GLASS FRAME OPTIONAL - MATCH EXISTING CONDITIONS. COORDINATE WITH CLIENT
- FULL EXTENSION DRAWER SLIDE
- 1/4" PLYWOOD BACKING ON 1 X 3 HARDWOOD CABINET FRAME
- CABINET SUB BASE. SEPARATE AND CONTINUOUS P.T. 2X4 WITH CONCEALED FASTENING TO CABINET BOTTOM. INSET WITH 1/4" AT CABINET FINISHED ENDS FOR A RECESSED BASE CONDITION
- ELECTRICAL OUTLET - REFER TO ELECTRICAL SHEETS FOR SCOPE OF WORK
- 2X4 KNEE WALL AT 16" O.C.
- NEW WALL CABINET - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS

REVISIONS	BY

DAVID L. TIPPIN WATER TREATMENT FACILITY
LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

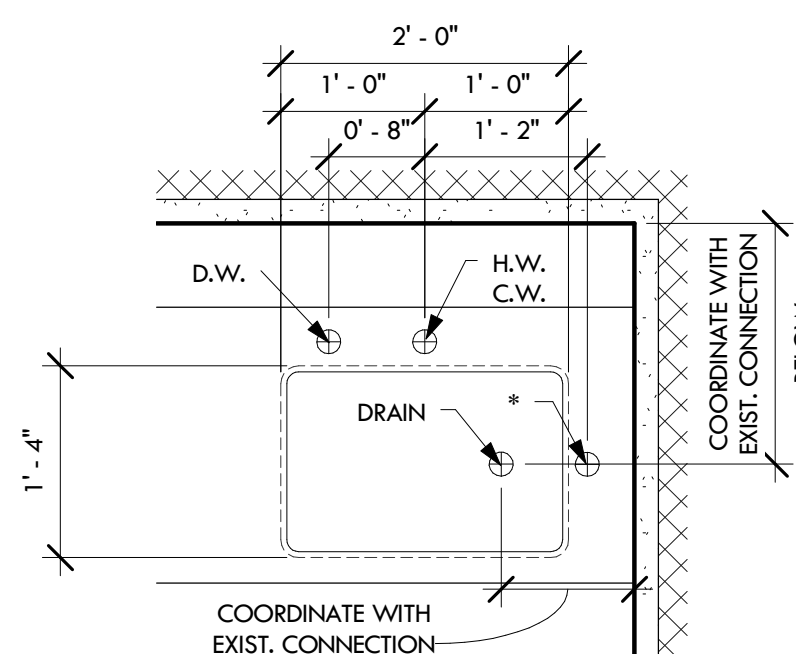
100% CONSTRUCTION DOCUMENTS
PHASE 4 - INTERIOR CABINET ELEVATIONS
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
14015 West Bayshore Avenue, Suite 200, Tampa, FL 33607
AGI
Florida Engineering Business Number 0003

WOODROFFE CORPORATION ARCHITECTS
5005 WEST LAUREL STREET, SUITE 215
TAMPA, FL 33607
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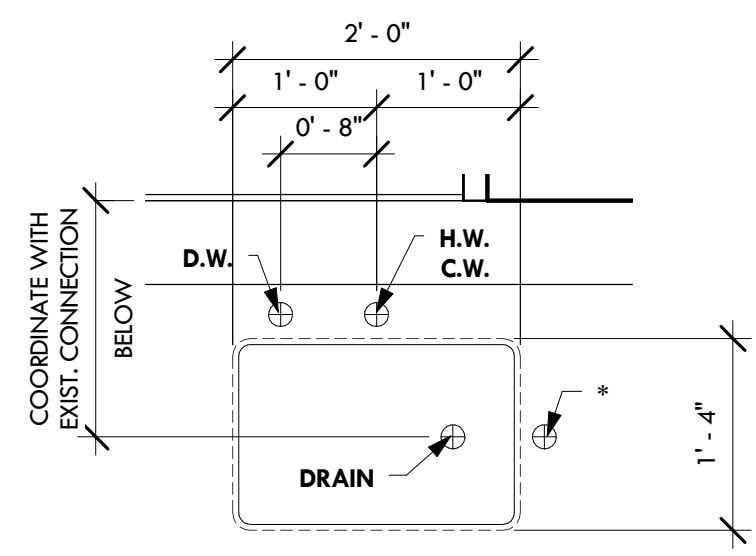
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DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	

A1.4.4

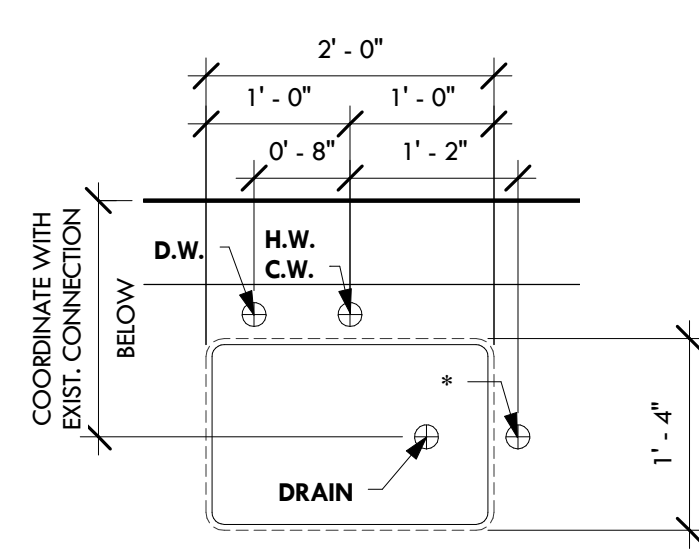
ENRIQUE A. WOODROFFE, FAIA, LEED
FLORIDA LICENSE AR 0007703



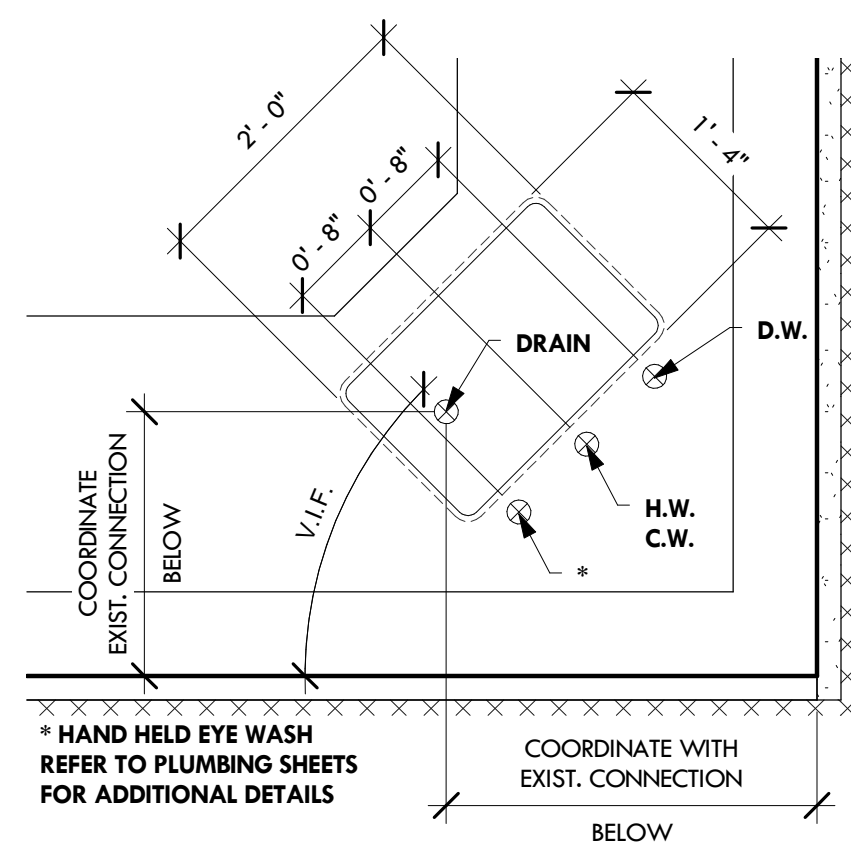
*CAP AND REPLACE WITH HAND HELD EYE WASH REFER TO PLUMBING SHEETS FOR ADDITIONAL DETAILS
 ① SINK IN SAMPLE STORAGE ROOM
 3/4" = 1'-0"



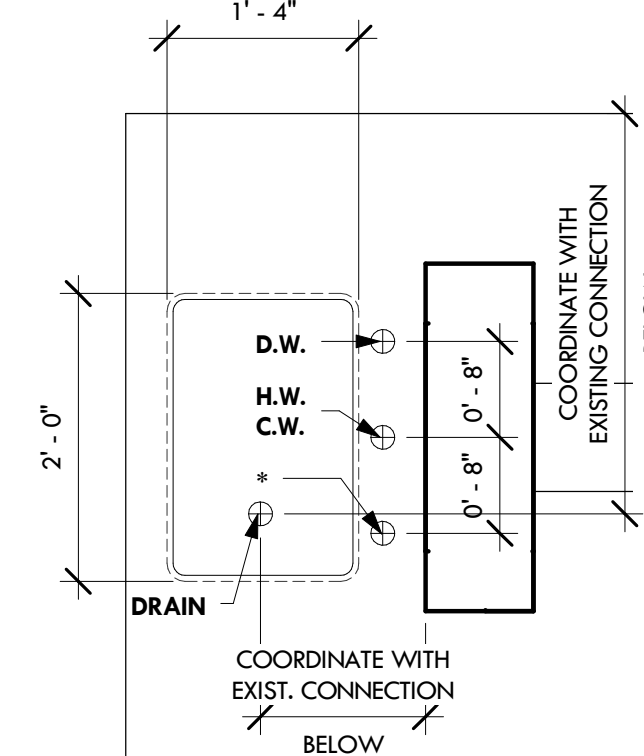
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 ② SINK IN MICROBIOLOGY ROOM
 3/4" = 1'-0"



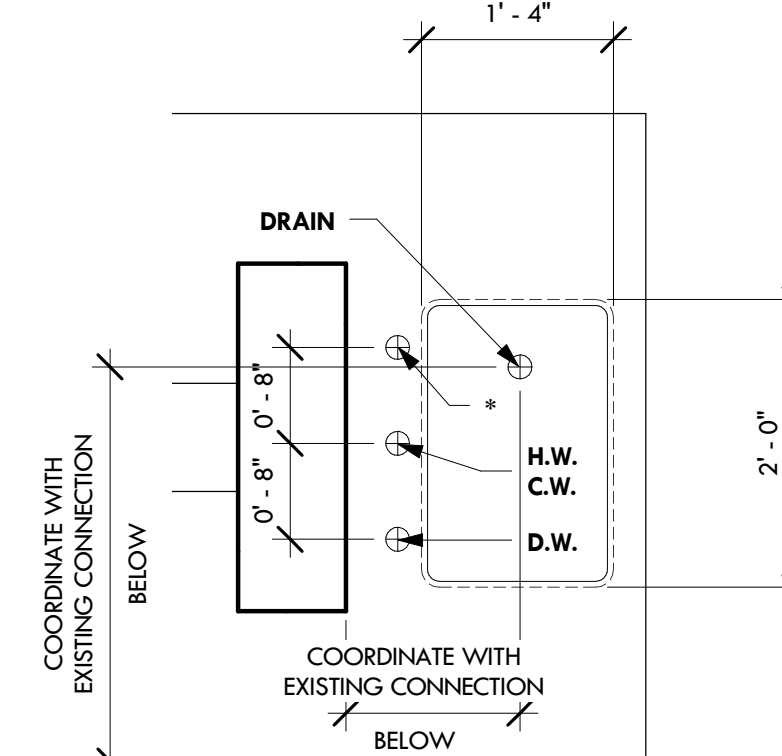
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 ③ 2ND SINK IN MICROBIOLOGY ROOM
 3/4" = 1'-0"



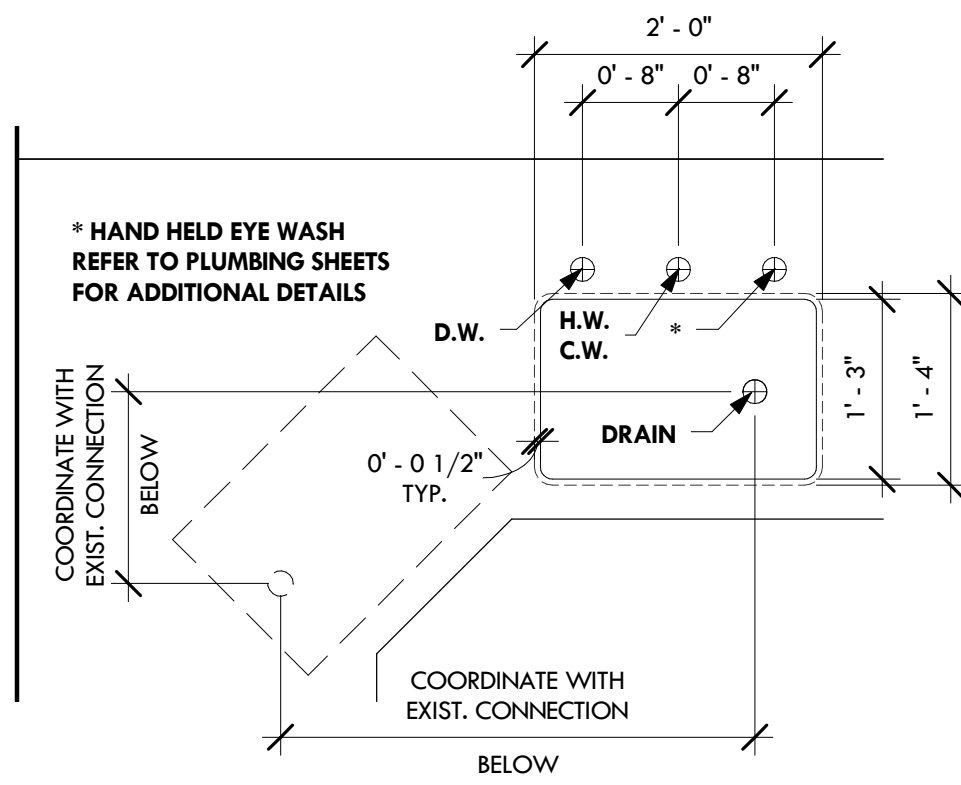
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 ④ SINK IN METALS EXTRACTION ROOM
 3/4" = 1'-0"



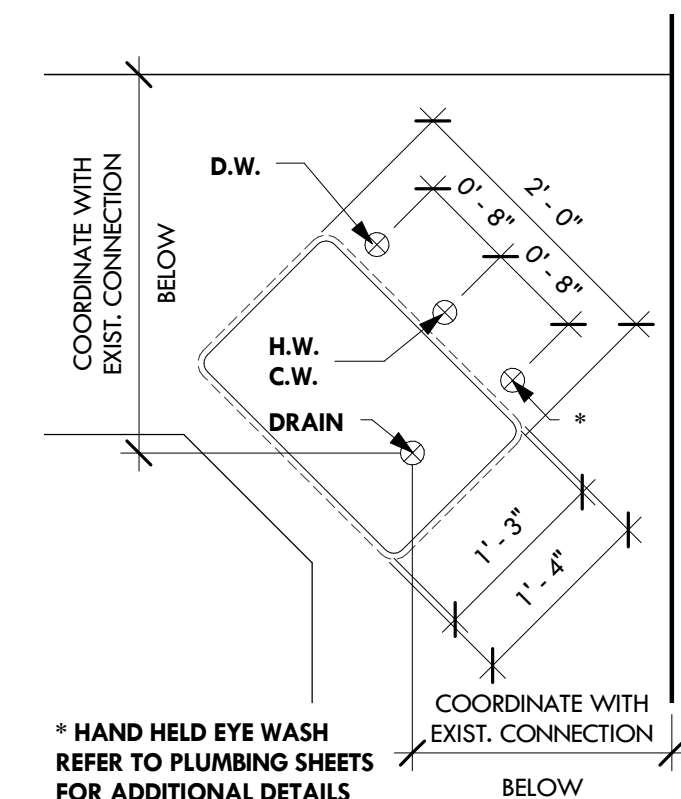
*HAND HELD EYE WASH REFER TO PLUMBING SHEETS FOR ADDITIONAL DETAILS
 ⑤ SINK IN GEN. WET CHEM. LAB
 3/4" = 1'-0"



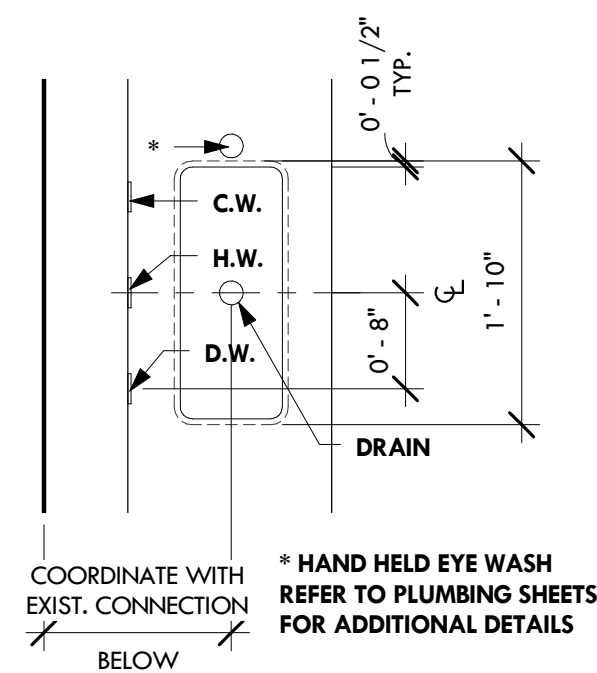
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 ⑥ 2ND SINK IN GEN. WET CHEM. LAB
 3/4" = 1'-0"



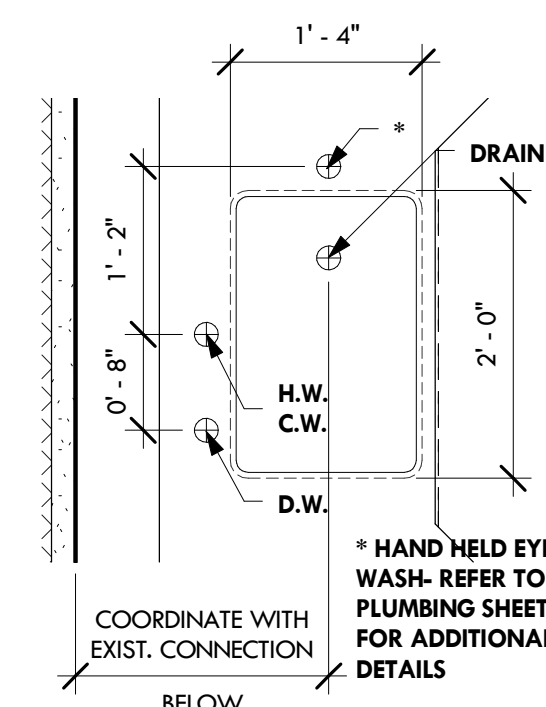
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 ⑦ 3RD SINK IN GEN. WET CHEM. LAB
 3/4" = 1'-0"



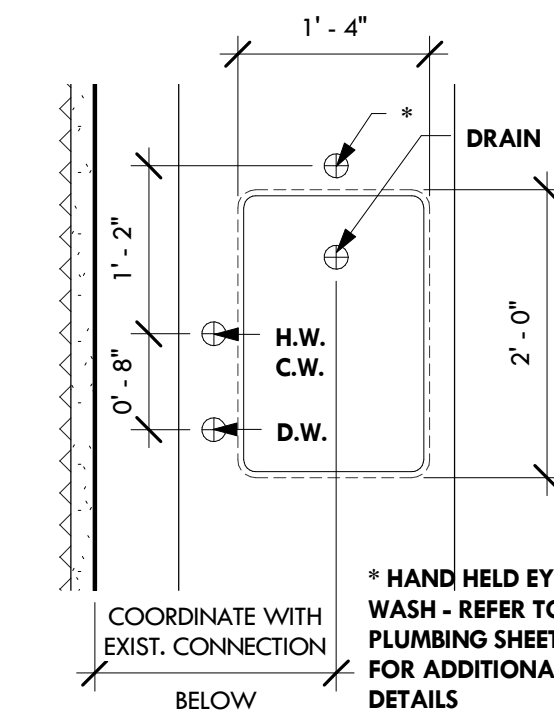
*HAND HELD EYE WASH REFER TO PLUMBING SHEETS FOR ADDITIONAL DETAILS
 ⑧ 4TH SINK IN GEN. WET CHEM. LAB
 3/4" = 1'-0"



*HAND HELD EYE WASH REFER TO PLUMBING SHEETS FOR ADDITIONAL DETAILS
 ⑨ SINK IN METAL'S LAB
 3/4" = 1'-0"



*HAND HELD EYE WASH - REFER TO PLUMBING SHEETS FOR ADDITIONAL DETAILS
 ⑩ SINK IN ORGANIC'S LAB
 3/4" = 1'-0"



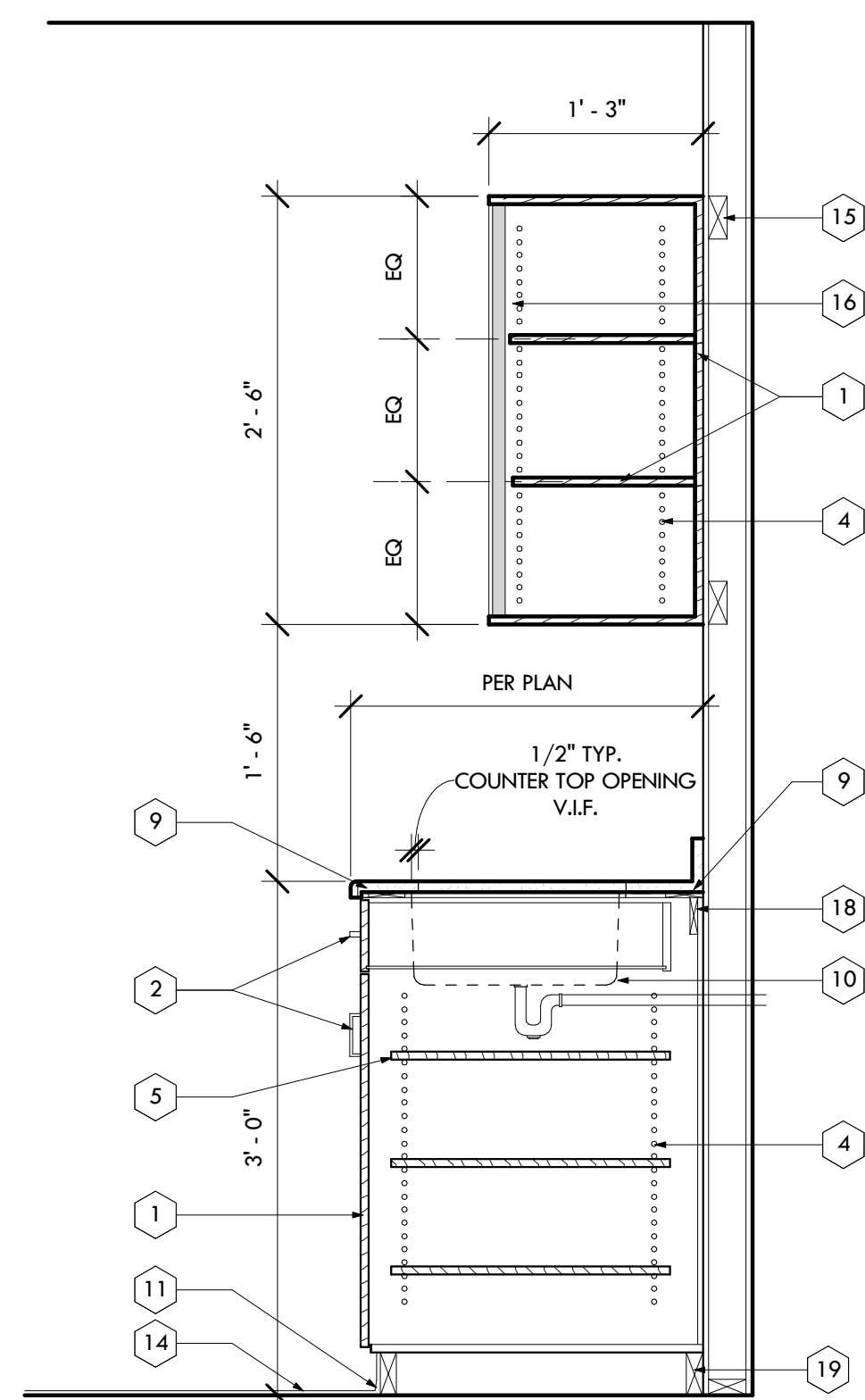
*HAND HELD EYE WASH - REFER TO PLUMBING SHEETS FOR ADDITIONAL DETAILS
 ⑪ SINK IN DR. LET'S LAB
 3/4" = 1'-0"

GENERAL NOTES

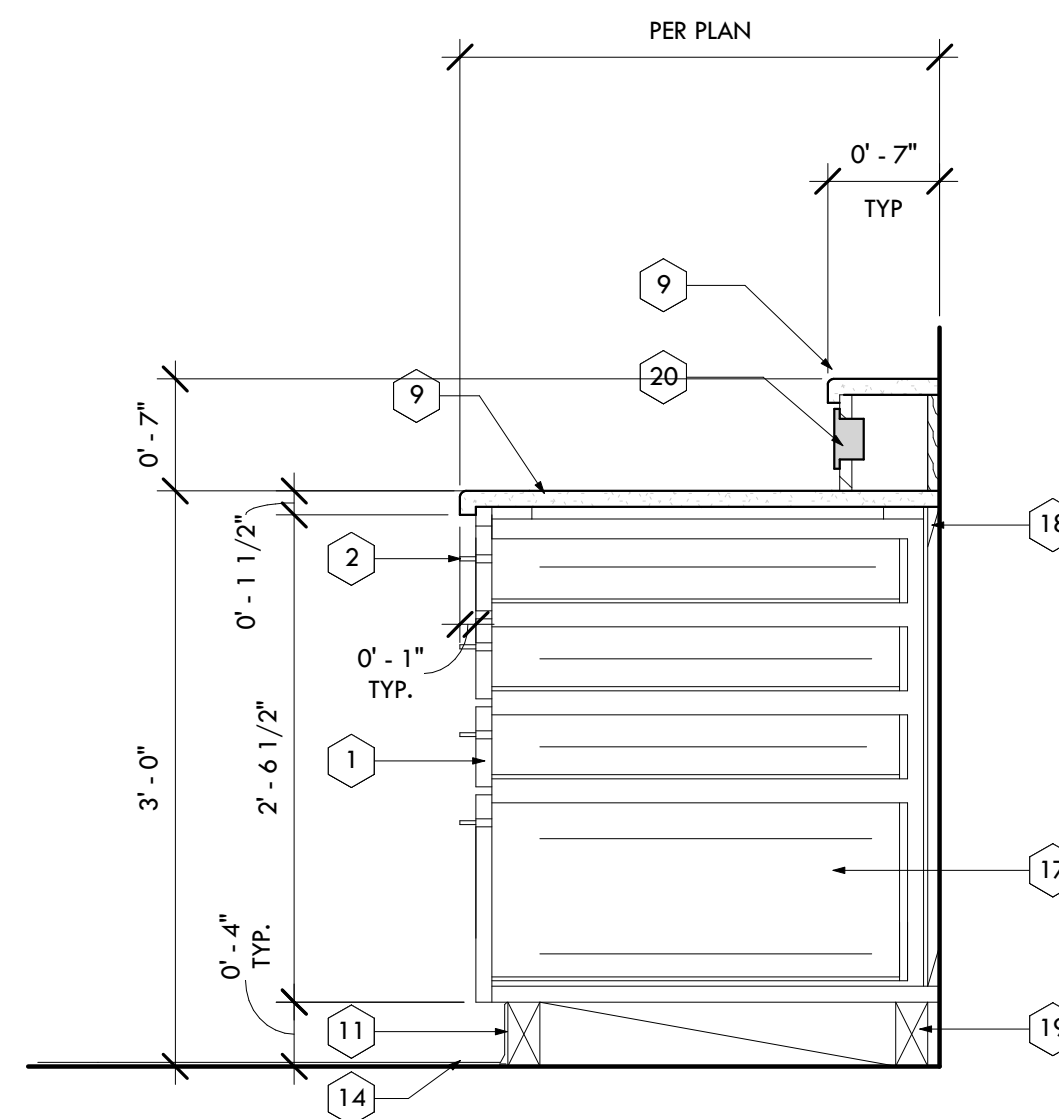
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- REFER TO SHEET A1.5 FOR CABINET DETAILS

SPECIFIC CABINETRY NOTES " " "

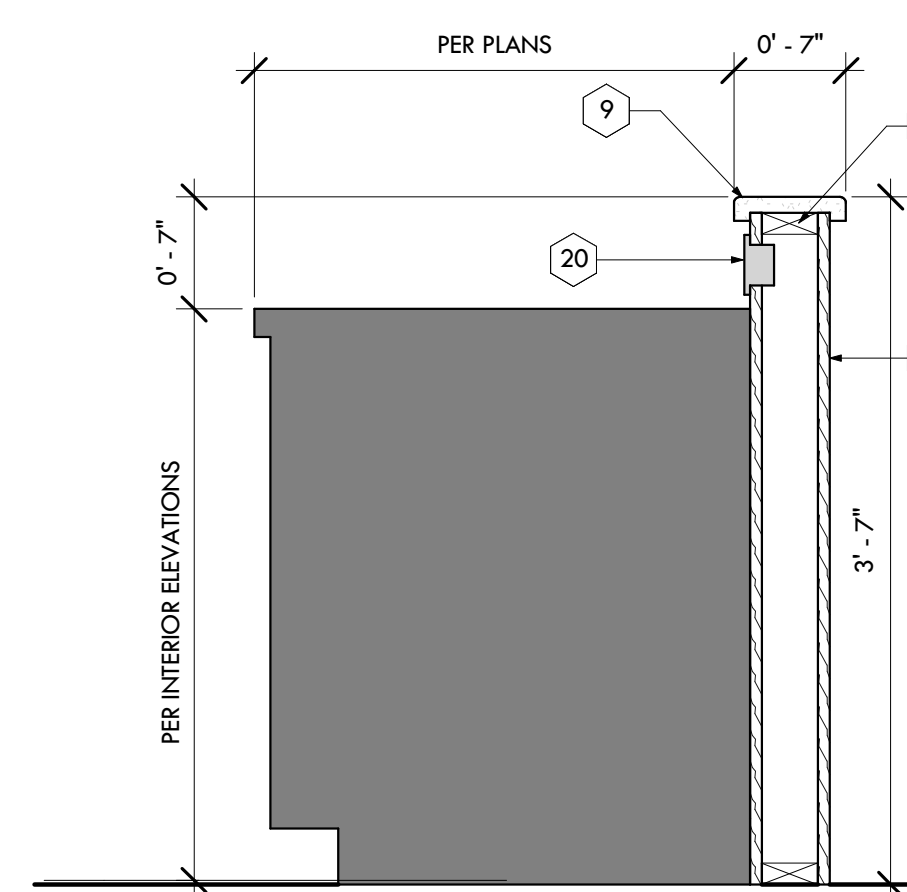
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- FULL EXTENSION DRAWER SLIDE
- 1/4" PLYWOOD BACKING ON 1 X 3 HARDWOOD CABINET FRAME
- CABINET SUB BASE. SEPARATE AND CONTINUOUS P.T. 2X4 WITH CONCEALED FASTENING TO CABINET BOTTOM. INSET WITH 1/4" AT CABINET FINISHED ENDS FOR A RECESSED BASE CONDITION
- ELECTRICAL OUTLET - REFER TO ELECTRICAL SHEETS FOR SCOPE OF WORK
- 2X4 KNEE WALL AT 16" O.C.
- NEW WALL CABINET - SEE INTERIOR ELEVATIONS FOR CABINET DETAILS



A BASE & UPPER CABINET SECTION - SINK AS PER PLAN



B BASE CABINET SECTION - WITH ELECTRICAL RACEWAY



C LOW WALL BEHIND CABINETS

⑫ CABINET SECTIONS
 1" = 1'-0"

REVISIONS	BY

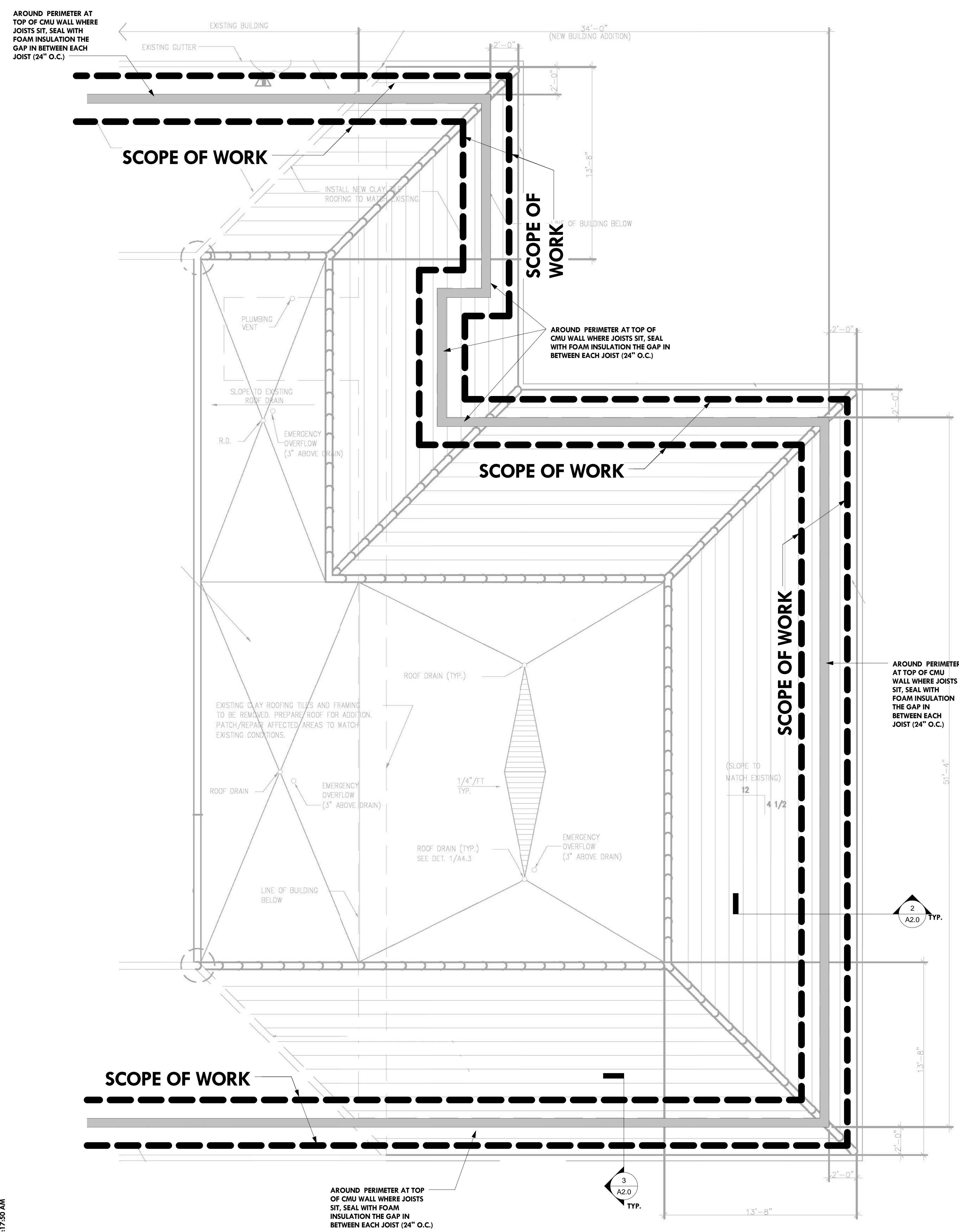
DAVID L. TIPPIN WATER TREATMENT FACILITY
 LABORATORY HVAC REPLACEMENT AND RENOVATION
 7125 NORTH 30TH STREET, TAMPA, FL 33610

SINK AND CABINET DETAILS
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 1401 W. Hillsborough Avenue, Suite 200
 Tampa, FL 33606
 AGI
 100% CONSTRUCTION DOCUMENTS

DRAWN	DC
CHECKED	HW
DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	A1.5

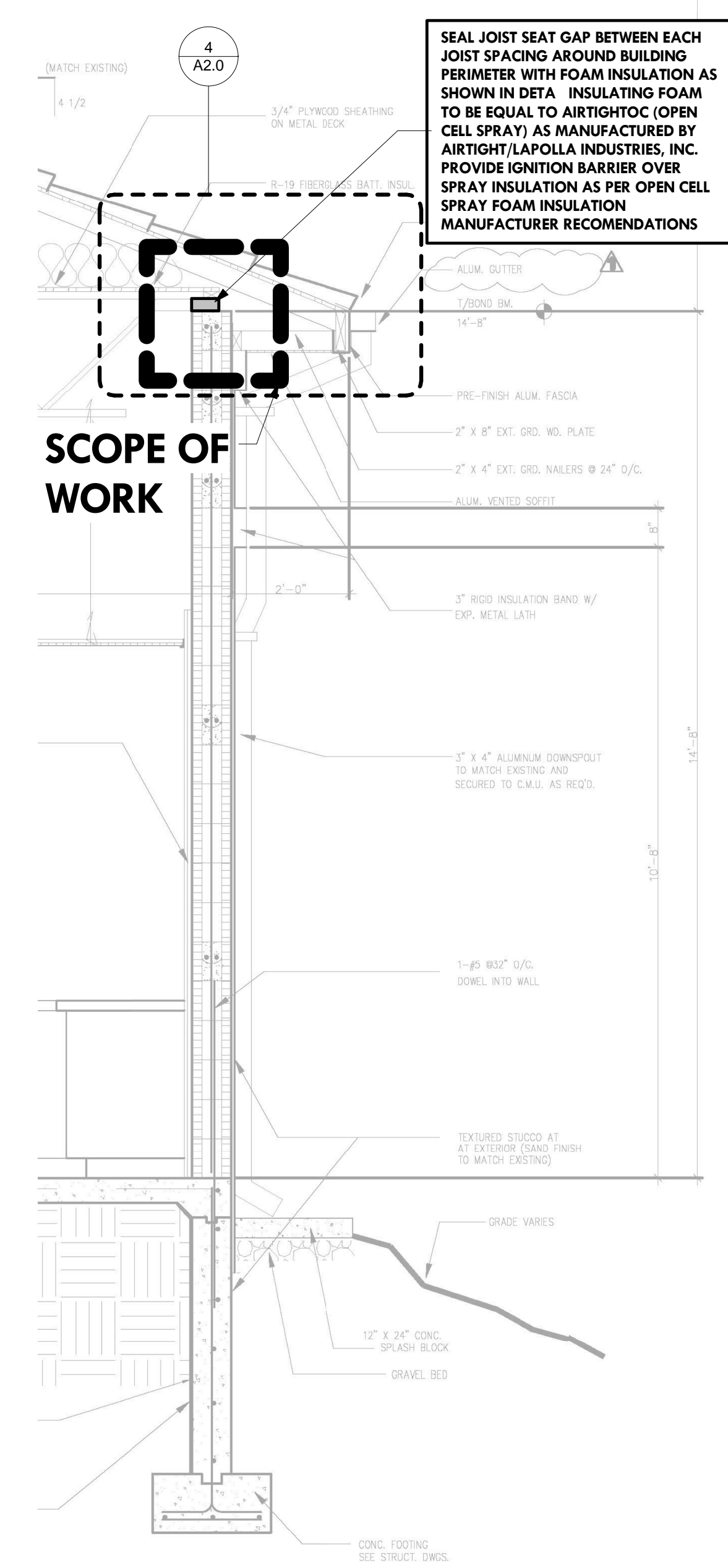
WOODROFFE CORPORATION ARCHITECTS
 5005 WEST LAUREL STREET, SUITE 215
 TAMPA, FL 33607
 813-281-0411
 FLORIDA LICENSE NUMBER AA C001379

ENRIQUE A. WOODROFFE, FAIA, LEED
 FLORIDA LICENSE AR 0007703

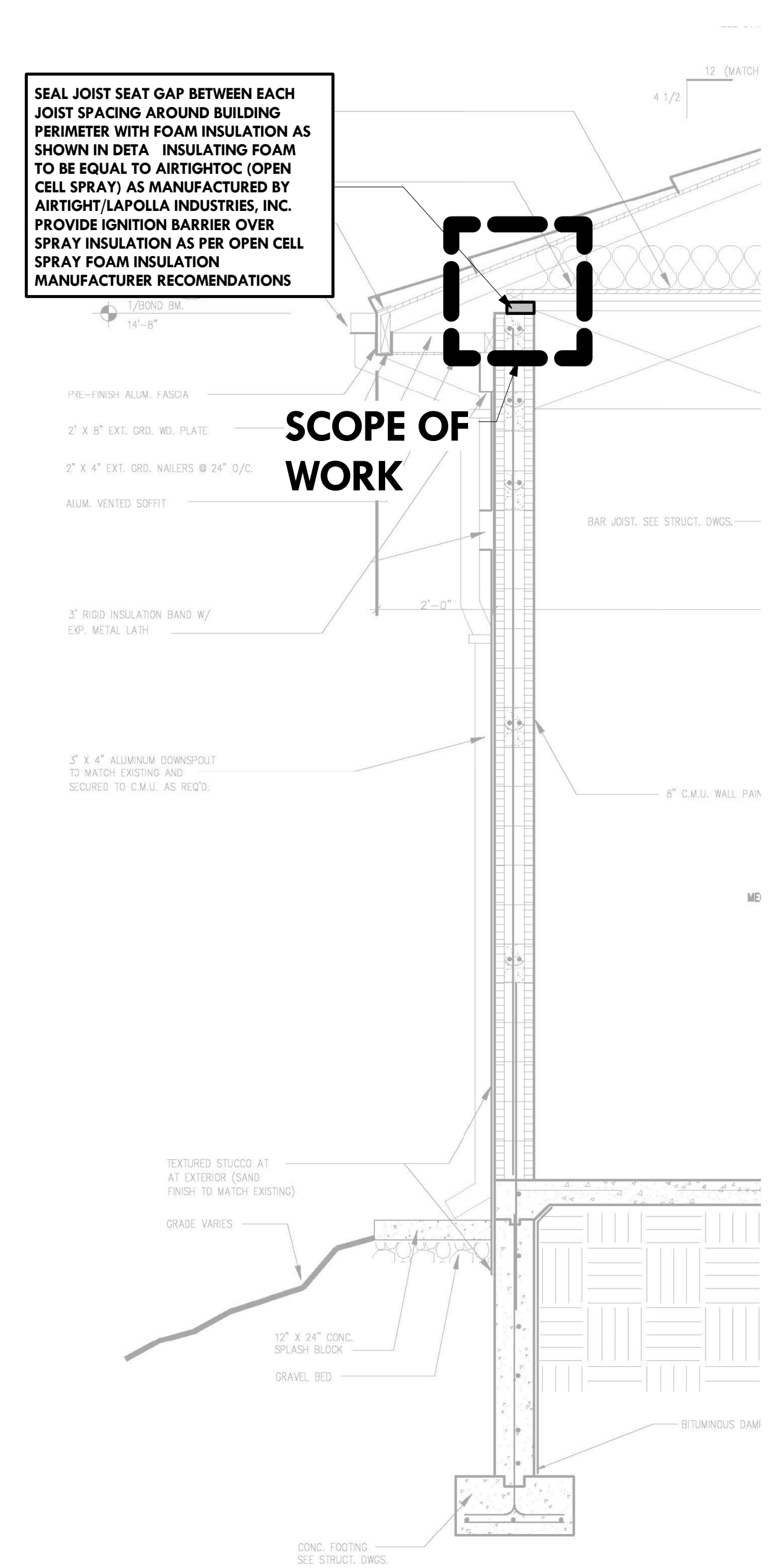


1 REFERENCE ROOF PLAN - PERIMETER INSULATION ENCLOSURE
1/4" = 1'-0"

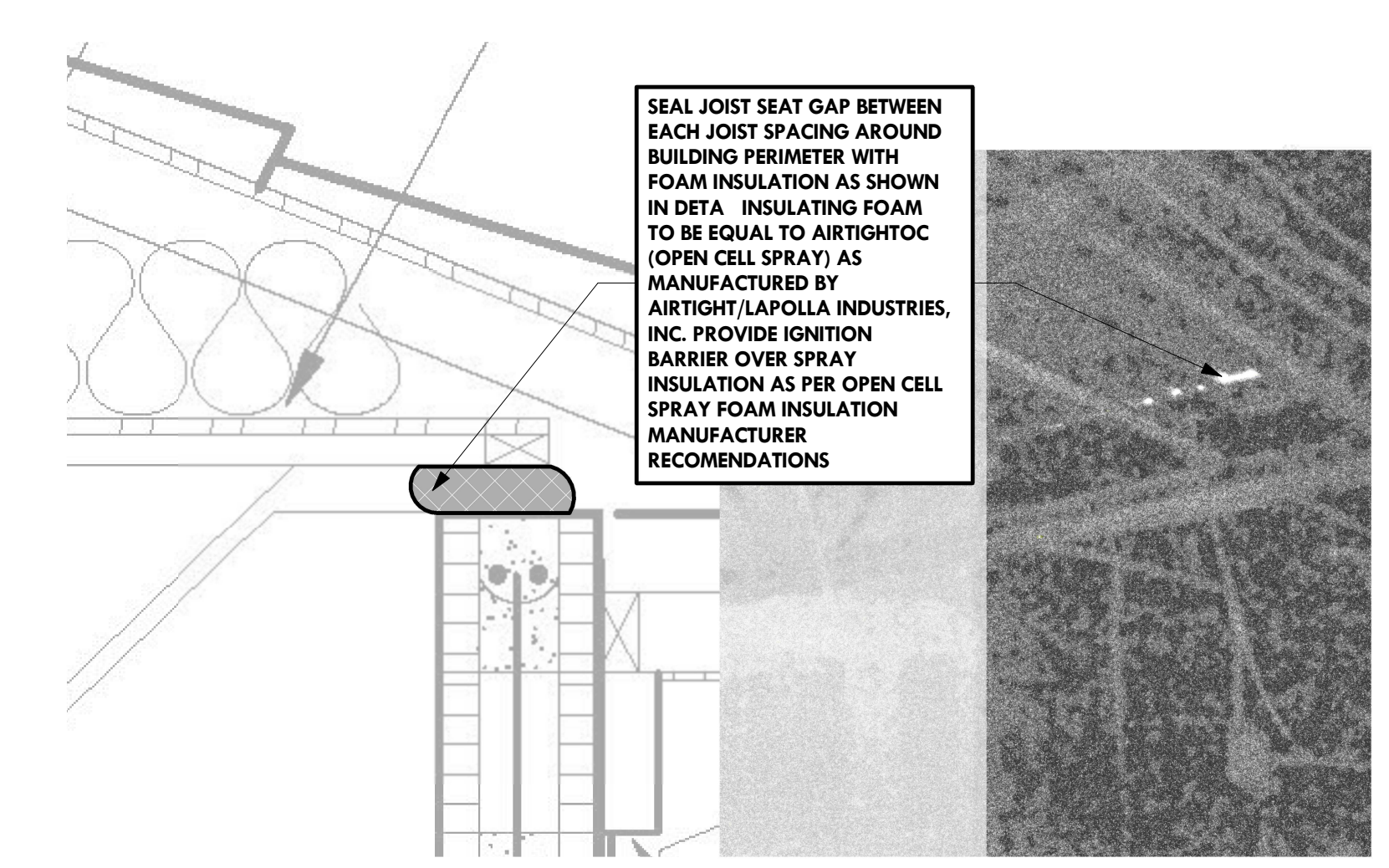
ORIGINAL DRAWING OF LAB ADDITION IN 1997



2 REFERENCE WALL SECTION - 1
1/2" = 1'-0" ORIGINAL DRAWING OF LAB ADDITION IN 1997



3 REFERENCE WALL SECTION - 2
1/2" = 1'-0" ORIGINAL DRAWING OF LAB ADDITION IN 1997



4 CLOSE UP DETAIL - PERIMETER INSULATION ENCLOSURE
1/2" = 1'-0" ORIGINAL DRAWING OF LAB ADDITION IN 1997

REVISIONS	BY

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LABORATORY HVAC REPLACEMENT AND RENOVATION
7125 NORTH 30TH STREET, TAMPA, FL 33610

PERIMETER INSULATION ENCLOSURE
100% CONSTRUCTION DOCUMENTS
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
AGI

DRAWN	DC
CHECKED	HW
DATE	01/10/14
SCALE	As indicated
AGI PROJECT	13009
SHEET	A2.0

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1/24/2014 9:17:50 AM

PLUMBING FIXTURE SCHEDULE							
MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW
P1 LAB SINK FIXTURE CONNECTIONS	UNDER MOUNT LAB SINK SHALL BE PROVIDED UNDER DIFFERENT DIVISION. PROVIDE NEW DECK MOUNT FIXTURES AS LISTED. MAKE ALL CONNECTIONS NECESSARY FOR A COMPLETE AND WORKING SYSTEM. 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. DI WATER FAUCET: POLYPROPYLENE SINGLE LAB FAUCET WITH INTEGRAL SHANK, A NEEDLE POINT VALVE AND A 5-3/4" GOOSENECK SPOUT. PROVIDE WITH A SERRATED NOZZLE OUTLET AND 1/2" NPSM MALE MOUNTING SHANK AND LOCKNUT. 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. RIONITE JOINING SHALL BE ACCEPTABLE FOR NEW CONNECTIONS. PROVIDE NEW BALL VALVE SHUT OFF UNDER COUNTER FOR EACH NEW DI FAUCET INSTALLED.	ZURN ZB26U4 T AND S BRASS BL-5704-08 WH4 ZURN ZB2900 ORION GNF-10 BRADLEY S19-465 S27-303 McGUIRE 3/8" x 1/2" HEAVY LEAD FREE ORION BV	1-1/2"	TANK	(E)	1/2"	1/2"
P2 LAB SINK FIXTURE CONNECTIONS	UNDER MOUNT LAB SINK SHALL BE PROVIDED UNDER DIFFERENT DIVISION. PROVIDE NEW WALL MOUNT FIXTURES AS LISTED. MAKE ALL CONNECTIONS NECESSARY FOR A COMPLETE AND WORKING SYSTEM. POTABLE WATER FAUCET: CHROME PLATED SOLID BRASS 8" BODY, QUARTER TURN COMPRESSION CARTRIDGES AND A 6" RIGID/SWING GOOSENECK SPOUT WITH VACUUM BREAKER, 4" WRIST BLADE HANDLES. PROVIDE WITH STAINLESS STEEL BRAIDED HOSES FOR CONNECTION TO NEW SUPPLY STOPS. FIELD VERY CONNECTION LENGTHS BEFORE ORDERING. DI WATER FAUCET: POLYPROPYLENE SINGLE LAB FAUCET WITH INTEGRAL SHANK, A NEEDLE POINT VALVE AND A 5-3/4" GOOSENECK SPOUT. PROVIDE WITH A SERRATED NOZZLE OUTLET AND 1/2" NPSM MALE MOUNTING SHANK AND LOCKNUT. 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. RIONITE JOINING SHALL BE ACCEPTABLE FOR NEW CONNECTIONS. PROVIDE NEW BALL VALVE SHUT OFF UNDER COUNTER FOR EACH NEW DI FAUCET INSTALLED.	CHICAGO FAUCET 943-317CP T AND S BRASS BL-5725-08 B-WH4 ZURN ZB2900-WM WALL MOUNT ORION GNF-20 WALL MOUNT BRADLEY S19-465 S27-303 McGUIRE 3/8" x 1/2" HEAVY LEAD FREE ORION BV	1-1/2"	TANK	(E)	1/2"	1/2"
P3 DILUTION TANK/TRAP	UNDER BENCH 2 GALLON DILUTION TANK. PROVIDE WITH A 2" CLEAN OUT TANK SHALL BE CONSTRUCTED OF VIRGIN RESIN AND MEET ASTM-D28 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	-	-

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
 - 2010 FLORIDA BUILDING CODE (FBC); (THIS CODE INCLUDES THE FLORIDA BUILDING CODE, ACCESSIBILITY AS CHAPTER 11.) THIS CODE INCLUDES THE 2010 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE THE 2010 FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 13; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 6.) (EFFECTIVE MARCH 15, 2012).
 - 2010 FLORIDA FIRE PREVENTION CODE (FFPC); (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2011)
- PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS.
- IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. ALL FLOOR DRAINS IN MECHANICAL ROOMS/CLOSETS, SHALL BE FIELD VERIFIED AND COORDINATED WITH THE HVAC EQUIPMENT/PAD LOCATIONS.
- CONDITIONS SHOWN AS EXISTING ARE BASED ON AVAILABLE DATA AND SHOULD BE INTERPRETED TO BE APPROXIMATE. VERIFY EXISTING CONDITIONS IN THE FIELD.
- COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- WATER PIPING SHALL BE HARD DRAWN COPPER TYPE L WITH WROUGHT COPPER FITTINGS AND 95-5 SOLDER.
- GATE VALVES SHALL BE #125 BRONZE WITH UNION BONNET.
- 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.
- UNLESS NOTED OTHERWISE, ALL PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A ONE YEAR PERIOD FROM DATE OF ACCEPTANCE.
- WASTE LINES RECEIVING BELOW AMBIENT TEMPERATURE CONDENSATE SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION TO GRADE.
- ALL EXISTING LINES TO REMAIN SHALL BE VISUALLY INSPECTED AND MACHINE CLEANED.
- REMOVE ALL UNUSED WASTE AND VENT PIPING.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TOTAL PROJECT TIME PERIOD

THE TIME PERIOD FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION OF THE FINAL PHASE SHALL BE 345 DAYS.

- 51 DAYS = SHOP DRAWING REVIEW AND MOBILIZATION
 - 84 DAYS = EQUIPMENT DELIVERY
 - 210 DAYS = CONSTRUCTION
- TOTAL=345 DAYS

60 DAYS = FINAL COMPLETION AND PROJECT CLOSEOUT.

TOTAL PROJECT TIME PERIOD FROM NOTICE TO PROCEED TO FINAL COMPLETION SHALL BE 405 DAYS. SEE PHASING PLAN BELOW FOR A DETAILED BREAKDOWN OF THE ALLOWABLE TIME PERIOD OR EACH PHASE OF CONSTRUCTION.

PHASING PLAN

THE CONSTRUCTION SHALL BE REQUIRED TO BE IMPLEMENTED IN A PHASED MANNER THAT ALLOWS THE OWNER TO CONTINUE TO OCCUPY THE BUILDING AND PERFORM OPERATIONS. THE FOLLOWING PROPOSED PHASING APPROACH IS INTENDED TO OUTLINE THE GENERAL REQUIREMENTS OF THE PHASED WORK, THE GENERAL DEMARCATION OF THE PHASING ZONES, THE NUMBER OF PHASES, THE TIME PERIOD ALLOWED, AND OTHER RESTRICTIONS AND REQUIREMENTS. THIS PHASING OUTLINE IS NOT INTENDED TO DICTATE THE CONTRACTORS MEANS AND METHODS FOR IMPLEMENTING THE WORK. REFER TO THE DRAWINGS FOR THE PHASING DEMARCATION LINES AND OTHER REQUIREMENTS. THIS WILL BE AN OCCUPIED, OPERATIONAL BUILDING DURING CONSTRUCTION. PLAN ACCORDINGLY.

PHASE 1

1. ALL ITEMS EXCEPT AS NOTED BELOW WITH UTILITY SERVICES, SUCH AS WATER, ELECTRICAL, TELECOMMUNICATIONS, DI WATER, GASES, ETC., SHALL BE DISCONNECTED BY THE CONTRACTOR AND PREPARED FOR MOVING. THE FOLLOWING ITEMS AND EQUIPMENT SHALL BE DISCONNECTED AND PREPARED FOR MOVING BY THE OWNER.

- BALANCES, PH METERS, TURBID METER, OVENS: VARIOUS LOCATIONS
- PERKIN ELMER FMS 100; METALS LAB 115
- DIONEX ICS 3000; GENERAL CHEMISTRY 123
- DIONEX ICS 5000; GENERAL CHEMISTRY 123
- DIONEX ICS 2500; ORGANICS LABORATORY 124
- AGLENT (VARIAN) LC/MS/MS; ORGANICS LABORATORY 124
- AGLENT (VARIAN) LC/MS; ORGANICS LABORATORY 124
- AQUAMATE SPEC; GENERAL CHEMISTRY 123
- JAR TEST APPARATUS; GENERAL CHEMISTRY 123
- FUSION TOC INSTRUMENT; GENERAL CHEMISTRY 123

THE CONTRACTOR SHALL MOVE ALL ITEMS AND EQUIPMENT OUT OF THE SPACES INTO OTHER AREAS FOR THEIR USE OR TO STORAGE CONTAINER AS REQUIRED. CONTRACTOR SHALL NOTIFY THE LAB MANAGER 30 DAYS PRIOR TO COMMENCEMENT OF PHASE WORK.

2. THE CONTRACTOR SHALL PROVIDE AN ON SITE STORAGE CONTAINER. LOCATION WILL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL MOVE AND STORE ALL OF THE OWNER'S PACKED AND BOXED ITEMS AND OTHER EQUIPMENT INTO AN ON-SITE STORAGE CONTAINER. THE MOVING AND STORING SHALL BE PERFORMED BY A PROFESSIONAL CERTIFIED, LICENSED, AND BONDED MOVING COMPANY. THE STORAGE CONTAINER WILL NOT BE REQUIRED TO BE AIR CONDITIONED.

3. THE CONTRACTOR SHALL PUT UP NOISE AND DUST BARRIERS TO SEPARATE THE OWNER'S OCCUPIED AREAS FROM THE CONSTRUCTION ZONE.

4. THE CONTRACTOR SHALL COMMENCE DEMOLITION OF THE CEILINGS, LIGHTING, DUCTWORK, HVAC EQUIPMENT, CABINETS (WHERE APPLICABLE), ETC. CARE AND CAUTION SHALL BE TAKEN DURING DEMOLITION TO ENSURE THE FOLLOWING:

- MEANS OF EGRESS IS MAINTAINED FOR THE OCCUPIED AREAS.
- ELECTRICAL POWER SHALL REMAIN IN OPERATION IN OCCUPIED AREAS, EXCEPT FOR ANY REQUIRED PRIOR APPROVED AND SCHEDULED OUTAGES. A SCHEDULED OUTAGE WILL BE REQUIRED TO PROVIDE THE NEW SERVICE AND NEW PANEL MDP. THIS OUTAGE WILL BE REQUIRED TO BE PERFORMED OVER A WEEKEND.
- POWER WILL BE REQUIRED TO REMAIN ON FOR LIGHTING AND ALL BRANCH CIRCUITS TO THE AREAS OUTSIDE THE CONSTRUCTION ZONE. PROVIDE TEMPORARY RE-ROUTING OF ELECTRICAL CIRCUITS AS NECESSARY. EMERGENCY LIGHTING SHALL REMAIN OPERATIONAL. REFER TO SECTION 16050 FOR MORE REQUIREMENTS.
- TELECOMMUNICATIONS SERVICES SHALL REMAIN IN OPERATION IN OCCUPIED AREAS. ALL VOICE AND DATA CABLING SHALL BE PROTECTED. REFER TO SECTION 16050 FOR MORE REQUIREMENTS.
- THE NEW FIRE ALARM CONTROL PANEL SHALL BE INSTALLED DURING PHASE 1 AND CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL FOR MONITORING. SEE SECTION 16721 FOR MORE REQUIREMENTS. THERE SHALL BE AN OPERATIONAL AND FUNCTIONAL FIRE ALARM SYSTEM IN ALL OCCUPIED AREAS AT ALL TIMES.
- ALL EXISTING HVAC SYSTEMS, INCLUDING AIR HANDLERS, FUME HOOD EXHAUST, GENERAL EXHAUST, AND CONTROLS, SHALL REMAIN OPERATIONAL IN THE PHASE 2, 3, AND 4 AREAS.
- ALL EXISTING WATER AND SANITARY SEWER SYSTEMS SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION IN THE PHASE 2, 3, AND 4 AREAS.
- INSTALL ALL NEW WORK SCHEDULED AND INDICATED IN THE CONTRACT DOCUMENTS, AND AS REQUIRED FOR THE COMPLETION OF THIS PHASE, INCLUDING TEST AND BALANCE OF ALL AREAS, OTHER REQUIRED TESTING, PAINTING, AND CLEAN-UP.
- SCHEDULE AND PASS A SUBSTANTIAL COMPLETION INSPECTION PRIOR TO STARTING TO THE NEXT PHASE OF WORK.
- MOVE ALL BOXES FROM STORAGE BACK INTO THIS AREA. THE OWNER WILL UN-PACK AND MOVE BACK INTO THE SPACE.
- WARRANTY PERIODS SHALL NOT COMMENCE UNTIL ALL PHASES ARE COMPLETE.
- THIS PHASE SHALL BE COMPLETE IN 60 DAYS.

PHASE 2

1. REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING WATER AND SEWER SYSTEMS IN PHASE 1, 3 & 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION. THE EXISTING HVAC SYSTEM IN PHASE 1 AND 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.

2. PROVIDE TEMPORARY AIR CONDITIONING FOR THE PHASE 3 AREA.

3. PROVIDE FOR ELECTRICAL CIRCUITS THAT WILL NEED TO EXTEND FROM PHASE 2 INTO PHASE 3 AND 4 SUCH THAT THE DISRUPTION TO THE PHASE 2 AREA IS MINIMAL DURING THE CONSTRUCTION OF PHASE 3 AND 4.

4. PROVIDE FOR HVAC SYSTEMS EXTENSION INTO PHASE 3 AND 4 SUCH THAT THE DISRUPTION TO THE PHASE 2 AREA IS MINIMAL DURING THE CONSTRUCTION OF PHASE 3 AND 4.

5. THIS PHASE SHALL BE COMPLETED IN 60 DAYS.

PHASE 3

1. REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING HVAC, WATER AND SEWER SYSTEMS IN PHASE 1, 2 & 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.

2. THIS PHASE SHALL BE COMPLETED IN 30 DAYS.

PHASE 4

1. REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING HVAC, WATER AND SEWER SYSTEMS IN PHASE 1, 2 & 3 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.

2. THIS PHASE SHALL BE COMPLETED IN 60 DAYS.

A. AIR CONDITIONING, DATA NETWORK, POWER AND TELEPHONE SERVICE MUST REMAIN OPERATIONAL IN OCCUPIED AREAS FOR THE DURATION OF THE PROJECT. ANY OUTAGES OF UTILITIES AS MAY BE NECESSARY TO PERFORM THE WORK OF THIS PROJECT MUST OCCUR ON WEEKENDS ONLY AND SERVICES MUST BE RESTORED BY 7:00 AM MONDAY MORNING.

B. SOME OF THE OWNER'S FURNITURE, EQUIPMENT WILL REMAIN IN THE AREA OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO COVER AND PROTECT IT FROM DAMAGE AND THEFT, AND TO MOVE IT AS NEEDED TO ACCOMPLISH THE WORK. THE CONTRACTOR IS REQUIRED TO RETURN ALL ITEMS TO THE ROOM OF ORIGIN PRIOR TO REQUESTING A SUBSTANTIAL COMPLETION INSPECTION.

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

PLUMBING LEGEND

- WASTE PIPING BELOW FLOOR OR GRADE (SAN)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- PIPING UP
- PIPING DOWN
- PLUMBING FIXTURE IDENTIFICATION. SEE PLUMBING FIXTURE SCHEDULE
- VENT THROUGH ROOF
- ELEVATION
- CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING WORK
- EXISTING - EXACT SIZE AND LOCATION TO BE FIELD VERIFIED.
- EXISTING ITEM TO BE REMOVED
- EXISTING ITEM TO BE RELOCATED
- NEW LOCATION OF EXISTING ITEM

REVISIONS	BY

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GENERAL NOTES, LEGEND

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AGI

DRAWN	DATE
JC	1/10/2014
CHECKED	SCALE
HWP	AS NOTED
DATE	AGI PROJECT
1/10/2014	13009
SCALE	SHEET
AS NOTED	

PLUMBING DRAWING INDEX

P001 PLUMBING LEGEND AND GENERAL NOTES
P100 PLUMBING FLOOR PLAN

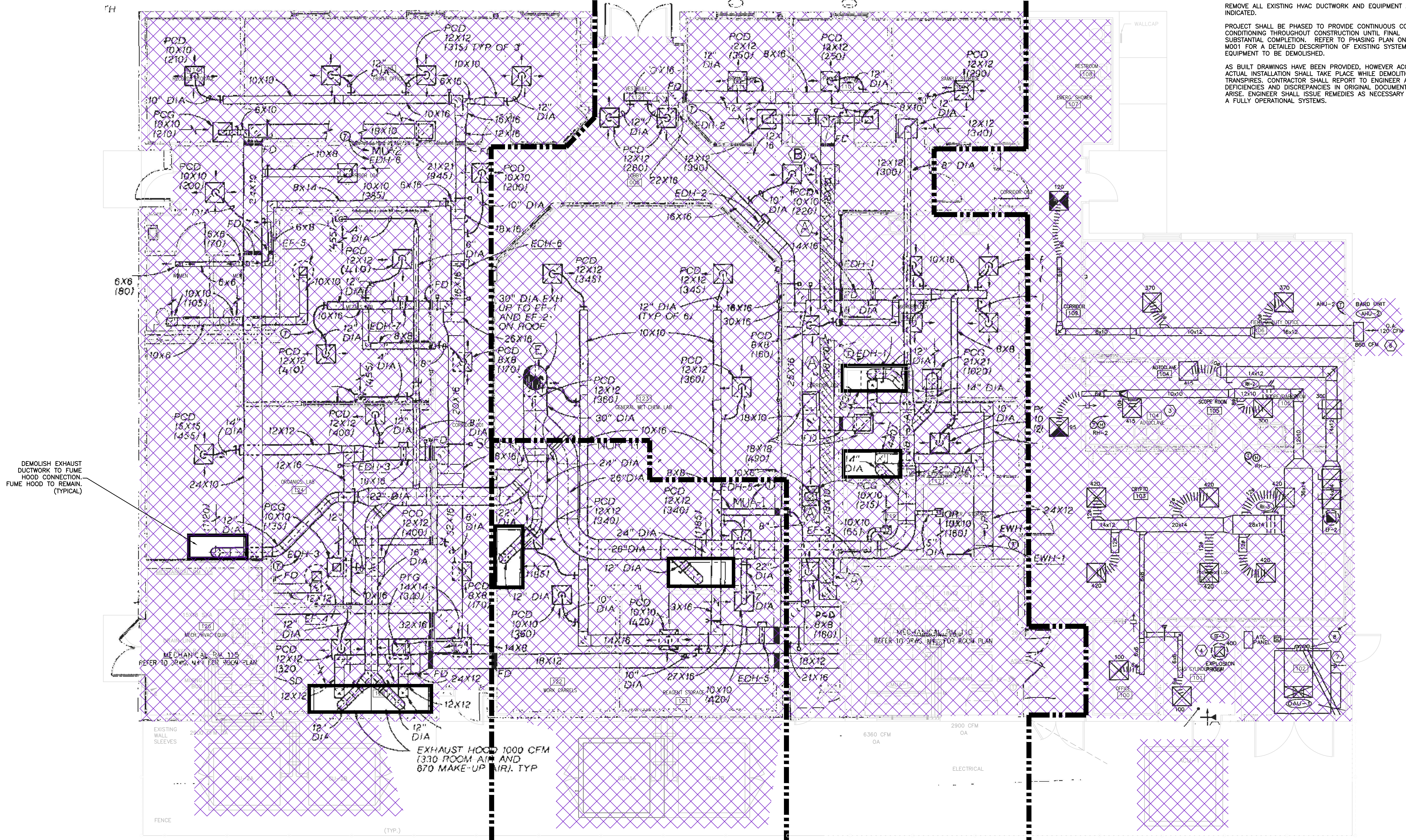
P001

HVAC DEMOLITION NOTES:

REMOVE ALL EXISTING HVAC DUCTWORK AND EQUIPMENT AS INDICATED.

PROJECT SHALL BE PHASED TO PROVIDE CONTINUOUS COOLING AND CONDITIONING THROUGHOUT CONSTRUCTION UNTIL FINAL SUBSTANTIAL COMPLETION. REFER TO PHASING PLAN ON SHEET M001 FOR A DETAILED DESCRIPTION OF EXISTING SYSTEMS AND EQUIPMENT TO BE DEMOLISHED.

AS BUILT DRAWINGS HAVE BEEN PROVIDED, HOWEVER ACCURACY TO ACTUAL INSTALLATION SHALL TAKE PLACE WHILE DEMOLITION TRANSPIRES. CONTRACTOR SHALL REPORT TO ENGINEER ANY DEFICIENCIES AND DISCREPANCIES IN ORIGINAL DOCUMENTS AS THEY ARISE. ENGINEER SHALL ISSUE REMEDIES AS NECESSARY TO INSURE A FULLY OPERATIONAL SYSTEMS.



HVAC DEMOLITION PLAN
 SCALE: 3/16"=1'-0"

DEMOLISH EXHAUST DUCTWORK TO FUME HOOD CONNECTION. FUME HOOD TO REMAIN. (TYPICAL)

EXHAUST HOOD 1000 CFM (330 ROOM AIR AND 670 MAKE-UP AIR). TYP

POINT DESCRIPTION	TEMPERATURE CONTROLS POINT SCHEDULE												NOTES	
	SYSTEM	HARDWARE						SOFTWARE						
		OUTPUT			INPUT			ALARMS		SOFTWARE				
	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	EMCS FUNCTIONS			
CAV SYSTEM (AH1)														
AH1 DAMPER (D1-1)														
AH1 CHILLED WATER VALVE (V1)														
AH1 FAN STATUS (CS1-1)														
AH1 START/STOP (MS1-1)														
AH1 UNIT LVG COIL TEMP (TE1-1)														
AH1 DUCT STATIC PRESSURE (P1-1)														
AH1 DUCT STATIC PRESSURE (P1-2)														
AH1 FAN VARIABLE FREQUENCY DRIVE (A01-1)														
DH01 OA ELECTRIC HEAT (DH1)														
DH001 ZONE ELECTRIC HEAT (DH001)														
DH001 SPACE TEMPERATURE SENSOR (TE1-001)														
DH113 ELECTRIC HEAT (DH113)														
DH113 SPACE TEMPERATURE SENSOR (TE1-113)														
DH124 ELECTRIC HEAT (DH124)														
DH124 SPACE TEMPERATURE SENSOR (TE1-124)														
DH125 ELECTRIC HEAT (DH125)														
DH125 SPACE TEMPERATURE SENSOR (TE1-125)														
CAV SYSTEM (AH2)														
AH2 DAMPER (D2-1)														
AH2 CHILLED WATER VALVE (V2)														
AH2 FAN STATUS (CS2-1)														
AH2 START/STOP (MS2-1)														
AH2 UNIT LVG COIL TEMP (TE2-1)														
AH2 DUCT STATIC PRESSURE (P2-1)														
AH2 DUCT STATIC PRESSURE (P2-2)														
AH2 FAN VARIABLE FREQUENCY DRIVE (A02-1)														
DH2 OA ELECTRIC HEAT (DH2)														
DH002 ZONE ELECTRIC HEAT (DH002)														
DH002 SPACE TEMPERATURE SENSOR (TE2-002)														
DH005 ELECTRIC HEAT (DH005)														
DH005 SPACE TEMPERATURE SENSOR (TE2-005)														
DH109 ELECTRIC HEAT (DH109)														
DH109 SPACE TEMPERATURE SENSOR (TE2-109)														
DH116 ELECTRIC HEAT (DH116)														
DH116 SPACE TEMPERATURE SENSOR (TE2-116)														
DH117 ELECTRIC HEAT (DH117)														
DH117 SPACE TEMPERATURE SENSOR (TE2-117)														
DH121 ELECTRIC HEAT (DH121)														
DH121 SPACE TEMPERATURE SENSOR (TE2-121)														
DH122 ELECTRIC HEAT (DH122)														
DH122 SPACE TEMPERATURE SENSOR (TE2-122)														
DH123 ELECTRIC HEAT (DH123)														
DH123 SPACE TEMPERATURE SENSOR (TE2-123)														
CAV SYSTEM (AH3)														
AH3 DAMPER (D3-1)														
AH3 CHILLED WATER VALVE (V3)														
AH3 FAN STATUS (CS3-1)														
AH3 START/STOP (MS3-1)														
AH3 UNIT LVG COIL TEMP (TE3-1)														
AH3 DUCT STATIC PRESSURE (P3-1)														
AH3 DUCT STATIC PRESSURE (P3-2)														
AH3 FAN VARIABLE FREQUENCY DRIVE (A03-1)														
DH3 OA ELECTRIC HEAT (DH3)														
DH003 ZONE ELECTRIC HEAT (DH003)														
DH003 SPACE TEMPERATURE SENSOR (TE1-003)														
DH100 ELECTRIC HEAT (DH100)														
DH100 SPACE TEMPERATURE SENSOR (TE1-100)														
DH103 ELECTRIC HEAT (DH103)														
DH103 SPACE TEMPERATURE SENSOR (TE1-103)														
DH104 ELECTRIC HEAT (DH104)														
DH104 SPACE TEMPERATURE SENSOR (TE1-104)														
DH106 ELECTRIC HEAT (DH106)														
DH106 SPACE TEMPERATURE SENSOR (TE1-106)														
EXHAUST FANS														
EFX FAN STATUS (CSEFX-1)														
EFX START/STOP (MSEFX-1)														
EFX DUCT STATIC PRESSURE (P111-1)														
OUTSIDE AMBIENT TEMP (ATS1)														
AMBIENT AIR HUMIDITY (AHS1)														

WHERE x = 1/2 & 3/4

AIRSIDE TEMPERATURE CONTROL SEQUENCES

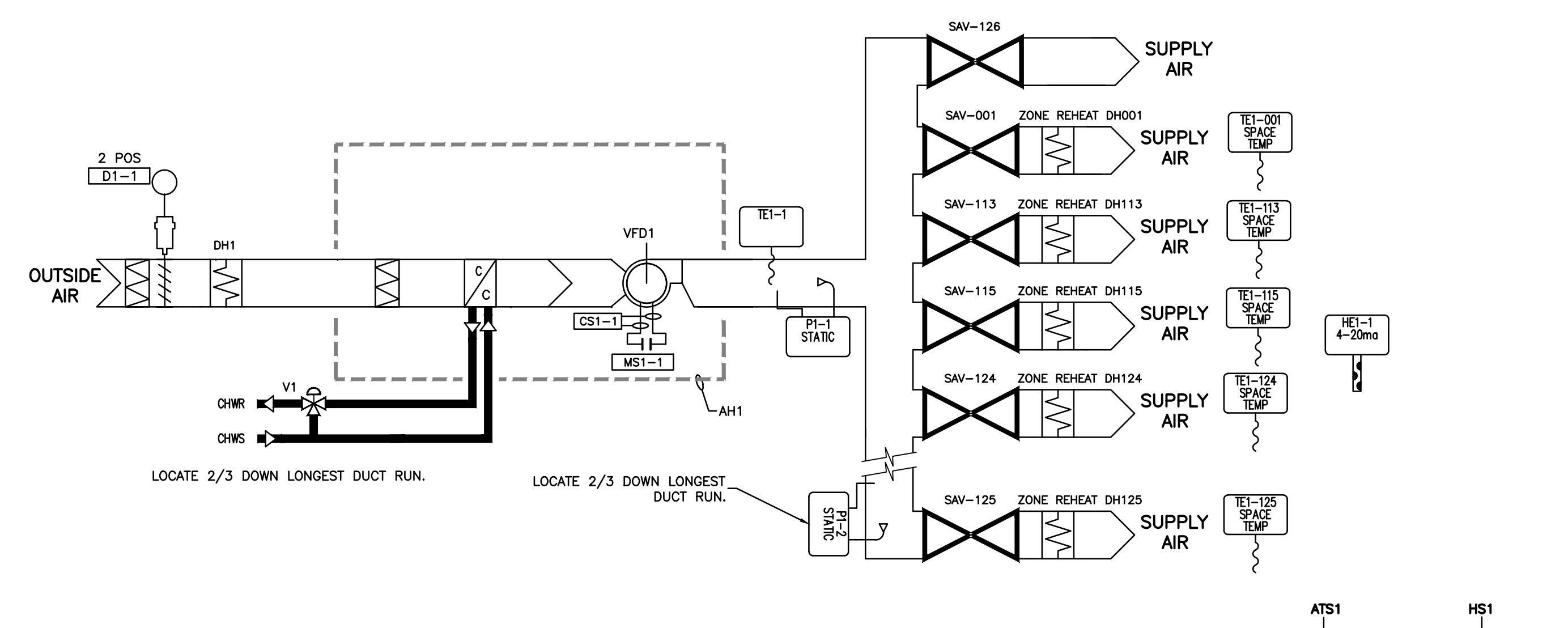
Constant Volume 100% Fresh Air Unit (AH1, AH2 & AH3)

The air handler shall run on a time of day schedule as defined by the owner. When the air handler is not running, the three-way chilled water valve shall be closed to the coil. The EMS shall enable the air handler supply air fan. The outside air damper shall be interlocked with the air handler so that the outside air damper will open when the air handler is running and will be closed when the air handler is disabled. An end switch on the damper will allow the supply fan to be energized when the damper is fully open. Interlock the exhaust fans so all fans will run when the OA damper opens on the air handler and the SA fan on the air handler is running.

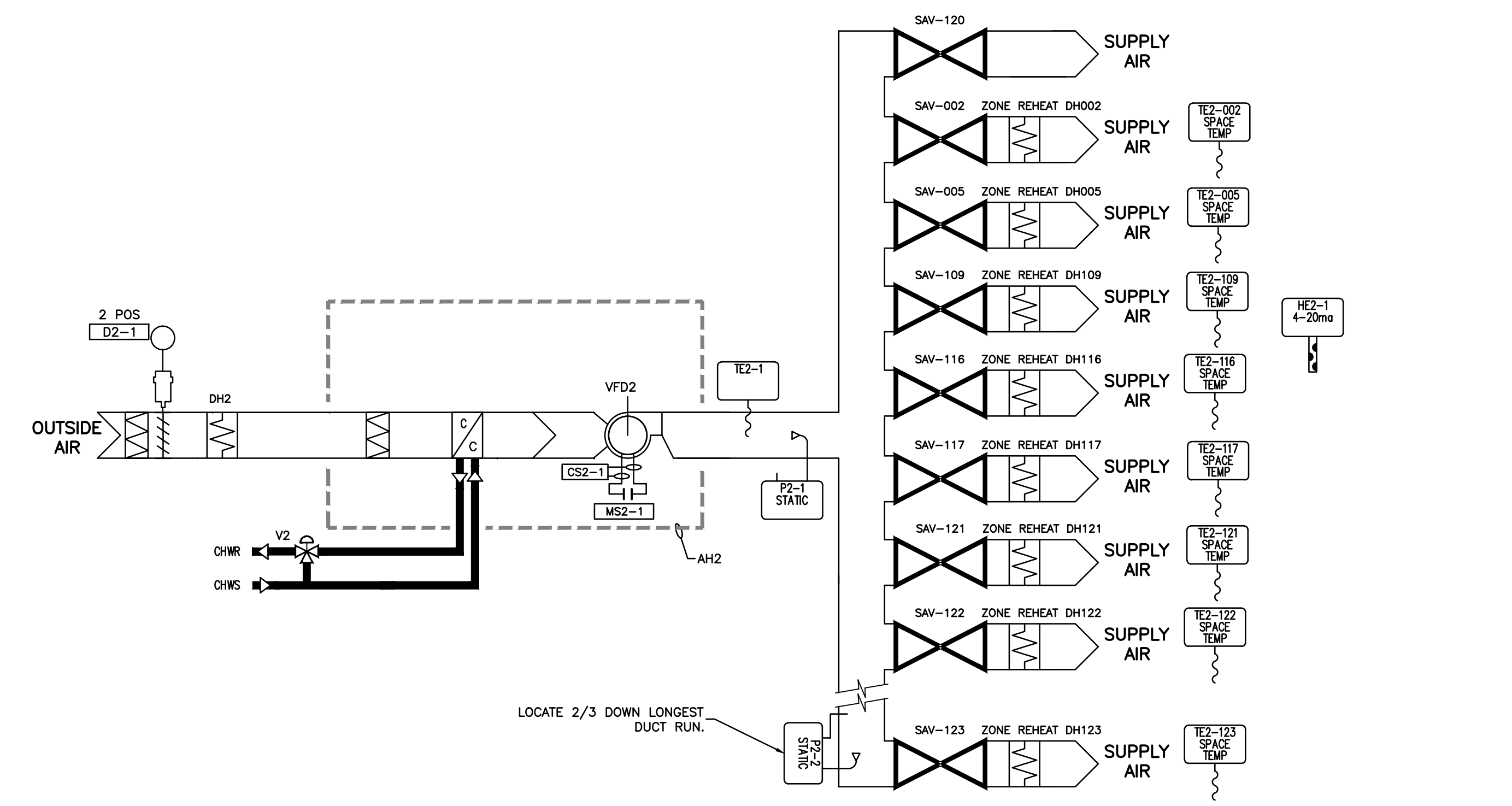
Cooling mode: In the cooling mode, the chilled water valve shall modulate to maintain the supply air temperature at 53°F setting (adjustable) as sensed by the supply air temperature sensor. When the ambient temperature falls below 60°F (adjustable), the chilled water valve shall be closed to the coil.

Zone reheat: In the cooling mode, the zone electric reheat shall stage on to maintain space setpoint.

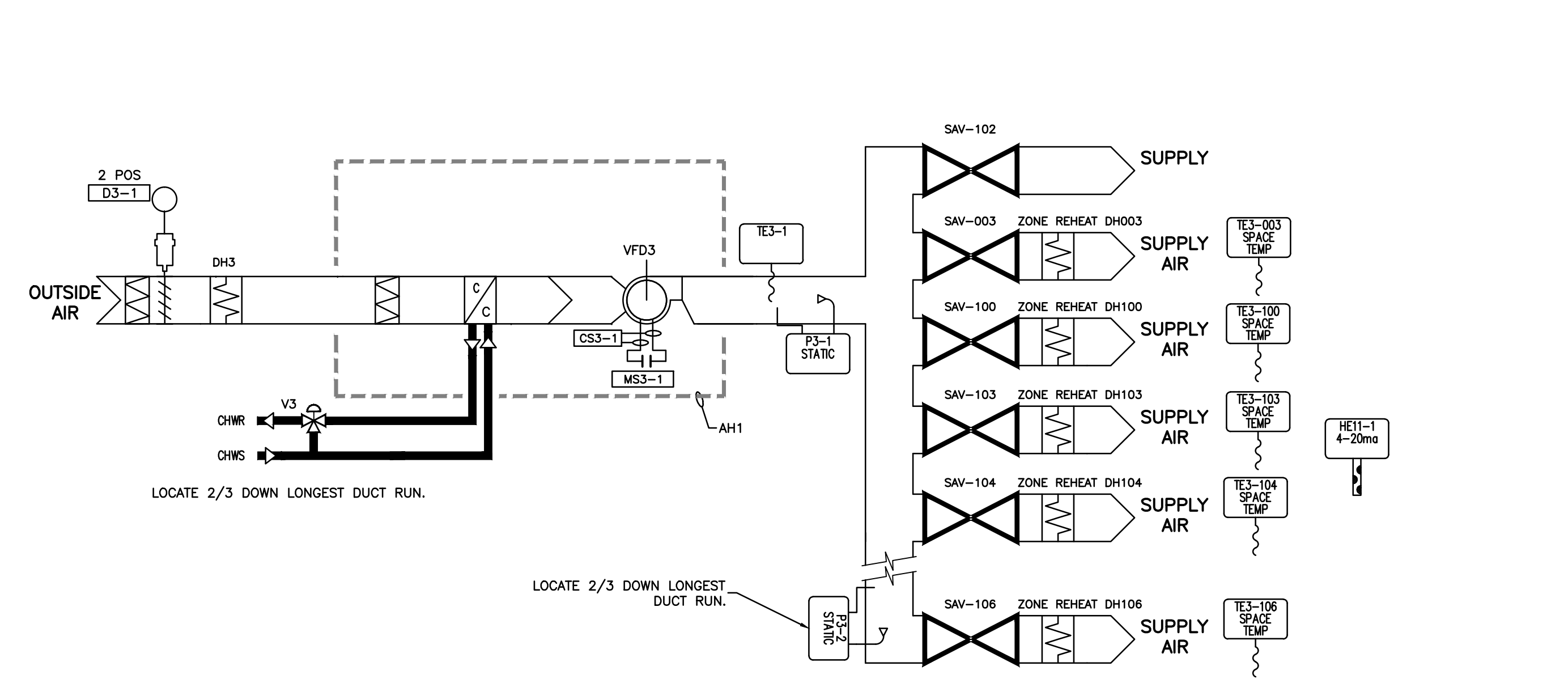
Heating mode: In the heating mode, the chilled water valves shall be fully closed to the coil. The electric pre-heat shall stage on to maintain the supply air temperature setting at 55°F as sensed by the supply air temperature sensor.



CAV AIR SYSTEM FLOW DIAGRAM (AH1)
NOT TO SCALE



CAV AIR SYSTEM FLOW DIAGRAM (AH2)
NOT TO SCALE



CAV AIR SYSTEM FLOW DIAGRAM (AH3)
NOT TO SCALE

REVISIONS	BY

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DRAWN	JC
CHECKED	HWP
DATE	1/10/2014
SCALE	AS NOTED
AGI PROJECT	13009
SHEET	
M500	

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
NOTE: DASHED OBJECTS ON FLOOR PLANS INDICATED EXISTING DEVICES THAT ARE TO REMAIN U.O.N.		
	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
	CONDUIT/RACEWAY EXPOSED ON WALL OR CEILING	N/A
	CONDUIT CAPPED	N/A
	HOMERUN TO PANELBOARD - LETTER INDICATES PANEL	N/A
	RACEWAY RISER, UP OR DOWN AS NOTED	
	RECESS OR PENDANT MOUNT TYPE LIGHT FIXTURE. LETTER INDICATES TYPE, ON NORMAL LIGHTING CIRCUIT	CEILING - SEE FIXTURE SCHEDULE
	RECESS OR PENDANT MOUNT TYPE LIGHT FIXTURE. LETTER INDICATES TYPE. HALF SHADED INDICATES FIXTURE EQUIPPED WITH EMERGENCY BATTERY BACKUP	CEILING - SEE FIXTURE SCHEDULE
	RECESS/SURFACE WALL MOUNT TYPE LIGHT FIXTURE. LETTER INDICATES TYPE, ON NORMAL LIGHTING CIRCUIT	CEILING OR WALL - SEE FIXTURE SCHEDULE
	RECESS/SURFACE WALL MOUNT TYPE LIGHT FIXTURE. LETTER INDICATES TYPE. HALF SHADED INDICATES FIXTURE EQUIPPED WITH EMERGENCY BATTERY BACKUP	CEILING OR WALL - SEE FIXTURE SCHEDULE
	RECESS/SURFACE MOUNT 2X4 FLUORESCENT LIGHTING FIXTURE. LETTER INDICATES TYPE, ON NORMAL LIGHTING CIRCUIT	CEILING - SEE FIXTURE SCHEDULE
	RECESS/SURFACE MOUNT 2X4 FLUORESCENT LIGHTING FIXTURE. LETTER INDICATES TYPE. HALF SHADED INDICATES FIXTURE EQUIPPED WITH EMERGENCY BATTERY BACKUP	CEILING - SEE FIXTURE SCHEDULE
	PENDANT/SURFACE MOUNT CHANNEL OR INDUSTRIAL TYPE FIXTURE. LETTER INDICATES TYPE, ON NORMAL LIGHTING CIRCUIT	CEILING - SEE FIXTURE SCHEDULE
	PENDANT/SURFACE MOUNT CHANNEL OR INDUSTRIAL TYPE FIXTURE. LETTER INDICATES TYPE. HALF SHADED INDICATES FIXTURE EQUIPPED WITH EMERGENCY BATTERY BACKUP	CEILING - SEE FIXTURE SCHEDULE
	EXIT SIGNAGE, LETTER INDICATES TYPE, SEE PLANS FOR DIRECTIONAL CHEVRONS, CONNECT TO UNSWITCHED LEG, TYPICAL FOR ALL EXITS	SEE FIXTURE SCHEDULE
	EMERGENCY LIGHTING FIXTURE - UNIT EQUIPMENT TYPE, LETTER INDICATES TYPE	WALL/CEILING - SEE FIXTURE SCHEDULE
	INCANDESCENT, FLUORESCENT OR HID FLOODLIGHT OR TRACK LIGHT FIXTURE, LETTER INDICATES TYPE	IN GRADE - SEE FIXTURE SCHEDULE
	TRACK WITH TRACK HEADS, LETTER INDICATES TYPE	CEILING - SEE FIXTURE SCHEDULE
	SINGLE POLE SWITCH LOWERCASE LETTER INDICATES FIXTURE GROUPING BY SWITCH IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 48" AFF TO TOP
	THREE WAY SWITCH IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 48" AFF TO TOP
	FOUR WAY SWITCH IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 48" AFF TO TOP
	120 VOLT, 1 POLE, HORSEPOWER RATED, TOGGLE TYPE MANUAL MOTOR DISCONNECT SWITCH. GENERAL ELECTRIC #CR101 TYPE OR EQUAL. SIZED PER MOTOR MANUF. RECOMMENDATION. PROVIDE NEMA 3R ENCLOSURE FOR EXTERIOR, NEMA 1 TYPE FOR INTERIOR.	M.H. 48" AFF TO TOP OR AS NOTED
	LED OR FLUORESCENT DIMMER SWITCH LUTRON NOVA-T SERIES. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE COMPATIBLE WITH BALLAST OR LED DRIVE IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 48" AFF TO TOP
	AUTOMATIC WALL SWITCH WITH OCCUPANCY SENSOR WAITSTOPPER WA-200 OR APPROVED EQUIVALENT IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 48" AFF TO TOP OR AS NOTED
	DIGITAL TIME SWITCH WITH LCD INDICATING COUNTDOWN WAITSTOPPER TS-400 OR APPROVED EQUIVALENT	M.H. 48" AFF TO TOP
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY SUBMIT SENSOR MANUFACTURER'S LAYOUT DRAWINGS FOR APPROVAL. WAITSTOPPER DT-300 OR APPROVED EQUIVALENT	CEILING MOUNTED OR WALL MOUNT AT 9'-0" AFF, SEE DETAIL E601
	KEY SWITCH IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 48" AFF TO TOP
	SIMPLEX RECEPTACLE - 120VAC IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 16" AFF TO BOTTOM U.O.N.
	DUPLEX RECEPTACLE - 120VAC, WP = WEATHERPROOF GF = GROUND FAULT PROTECTION IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 16" AFF TO BOTTOM U.O.N.
	FLOOR MOUNTED WP/GF RECEPTACLE OR JUNCTION BOX SEE WEATHERPROOF PEDIESTAL RECEPTACLE/JUNCTION BOX DETAIL	M.H. MAX. 4" AFF TO TOP, SEE DETAIL E601
	DUPLEX RECEPTACLE - 120VAC IVORY DEVICE, STAINLESS STEEL FACEPLATE	MOUNTED 42" AFF TO BOTTOM U.O.N.
	DUPLEX RECEPTACLE - 120VAC MOUNTED HORIZONTALLY IN BACKSPASH IVORY DEVICE, STAINLESS STEEL FACEPLATE	MOUNTED 6" ABOVE BACKSPASH U.O.N.
	DOUBLE DUPLEX RECEPTACLE - 120VAC IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 16" AFF TO BOTTOM
	DOUBLE DUPLEX RECEPTACLE - 120VAC IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 42" AFF TO BOTTOM
	SPECIAL PURPOSE TYPE RECEPTACLE, ASSUME NEMA L6-30 OR L6-20, TWISTLOCK TYPE CONFIGURATION UNLESS OTHERWISE INDICATED ON PLAN. IVORY DEVICE, STAINLESS STEEL FACEPLATE	M.H. 16" AFF TO BOTTOM U.O.N.
	SURFACE MOUNTED "PLUGMOLD" WITH OUTLETS MOUNTED ON 30" CENTERS. WIREMOLD SERIES 2200, OR EQUAL	MOUNTED ABOVE COUNTER TOP

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	DUPLEX FLOOR OUTLET - 120VAC 20A RECEPTACLE WITH BRASS COVERPLATE, (3) 1/2" TRADE SIZE KNOCKOUTS, DIE-CAST ALUMINUM CONSTRUCTION STEEL CITY 600 SERIES OR APPROVED EQUIVALENT	SURFACE MOUNTED ON FLOOR. SEE DETAIL
	COMBINATION VOICE/DATA/POWER POLE DUAL CHANNEL FOR SEPARATION OF POWER/TELECOM STEEL CONSTRUCTION, (2) DUPLEX, 20A RECEPTACLES, (2) COMMUNICATIONS MOUNTING INSERTS, IVORY FINISH HUBBEL CAT. #250TP-4ACT OR EQUIVALENT BY WIREMOLD NUMBER OF COMMUNICATIONS OUTLETS AS SHOWN ON DRAWINGS	COORDINATE WITH MANUFACTURER
	COMBINATION VOICE/DATA/POWER FLOOR BOX 2-GANG, CONCRETE TIGHT, STAMPED STEEL CONSTRUCTION 2-GANG BRASS COVERPLATE AND CARPET FLANGE PROVIDE 20A QUADRAPLEX TYPE RECEPTACLE IN FIRST SECTION D = # OF CAT-SE JACKS/CABLES TO PROVIDE IN 2ND SECTION HUBBEL CAT. #880S2 OR APPROVED EQUIVALENT PROVIDE ALL REQUIRED ACCESSORIES/FITTINGS FOR A COMPLETE INSTALLATION AND FINISH	FLUSH IN FLOOR
	NON-FUSIBLE SAFETY SWITCH	6'-0" TO TOP U.O.N.
	FUSIBLE SAFETY SWITCH	6'-0" TO TOP U.O.N.
	RECESSED ENCLOSED 50 AMP, 2-POLE, 208 VOLT, SINGLE PHASE CIRCUIT BREAKER FOR RANGE. MOUNT ABOVE COUNTER CENTERED BETWEEN COUNTER TOP AND OVERHEAD CABINETS. CIRCUIT BREAKER: SQUARE 'D' #00250 FLUSH ENCLOSURE: SQUARE 'D' #002100BNF GROUND BAR KIT: SQUARE 'D' #PK0GTA2 3/4"x; 3 #8, 1 #10 GND.	FLUSH MOUNTED
	COMBINATION MOTOR STARTER/DISCONNECT	5'-0" TO TOP U.O.N.
	MAGNETIC MOTOR STARTER	5'-0" TO TOP U.O.N.
	RED "MUSHROOM HEAD" TYPE PUSH-BUTTON SWITCH "EPO" TYPE REQUIRES KEY RESET WITH CONTRACTOR. SEE TYPICAL LAB EPO SWITCH CONTROL DETAIL ON PLANS	
	277/480V. PANELBOARD	6'-0" TO TOP U.O.N.
	120/208V. PANELBOARD	6'-0" TO TOP U.O.N.
	MOTOR CONNECTION	AS NOTED
	ELECTRIC HEAT STRIP	AS NOTED
	ELECTRIC DUCT HEATER	AS NOTED
	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
	DEVICE AS NOTED	AS NOTED
	PHOTOELECTRIC CELL	AS NOTED
	DIGITAL TIME CLOCK, SINGLE POLE, SINGLE THROW, 120/277V TORK CAT. #DWZ100A OR APPROVED EQUIVALENT	M.H. 5'-0" AFF TO TOP U.O.N.
	COMMUNICATIONS OUTLET W/EXISTING CAT 5 CABLING IN CONDUIT. # DESIGNATES QUANTITY OF CABLES & RJ45 JACKS, SEE DETAILS AND SPECIFICATIONS FOR MORE INFO. PROVIDE A 4" SQUARE X 2.5" DEEP OUTLET BOX WA = WIRELESS ACCESS POINT - LOCATE OUTLET ABOVE CLNG	M.H. 16" AFF TO BOTTOM OR AS NOTED
	FIRE ALARM MANUAL PULL STATION	M.H. 48" AFF TO TOP
	FIRE ALARM STROBE XX = CANELADA RATINGS, MINIMUM 75 CANELADA U.O.N.	TOP 6" BELOW CEILING OR 90" TO CTR. A.F.F. WHICHEVER IS LOWER
	FIRE ALARM HORN/SPEAKER, LETTER IN CIRCLE INDICATES TYPE: B=BELL, C=CHIME, H=HORN, S=SPEAKER WP=WEATHERPROOF TYPE	TOP 6" BELOW CEILING OR 90" TO CTR. A.F.F. WHICHEVER IS LOWER EXTERIOR HORNS MOUNTED AT 96" AFF
	FIRE ALARM COMBINATION HORN/STROBE C=CHIME, B=BELL, H=HORN, S=SPEAKER XX = CANELADA RATINGS, MINIMUM 75 CANELADA U.O.N.	TOP 6" BELOW CEILING OR 90" TO CTR. A.F.F. WHICHEVER IS LOWER
	FIRE ALARM REMOTE INDICATOR	M.H. 48" AFF TO TOP
	FIRE ALARM FLOW SWITCH	AS NOTED
	FIRE ALARM TAMPER SWITCH	AS NOTED
	FIRE ALARM MAGNETIC DOOR HOLDER COORDINATE MOUNTING HEIGHT WITH DOOR SUPPLIER	WALL MOUNTED

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	SEC	SECURITY SYSTEM CONTROL PANEL
AFG	ABOVE FINISHED GRADE	TYTC	TELEVISION TERMINAL CABINET
CIR	COMMUNICATION INSTRUMENT RACK	FACP	FIRE ALARM CONTROL PANEL
EWIC	ELECTRIC WATER COOLER ELECTRIC	FATC	FIRE ALARM TERMINAL CABINET
EWH	WATER HEATER	ITC	INTERCOM TERMINAL CABINET
EG	EQUIPMENT GROUND	EXP	EXPLOSION PROOF
GEB	ELECTRONIC BALLAST	MDF	MAIN DISTRIBUTION FRAME
(ETR)	EXISTING TO REMAIN	IDF	INTERMEDIATE DISTRIBUTION FRAME
EXP	EXPLOSION PROOF	AHC	ABOVE HUNG CEILING
GF1	GROUND FAULT PROTECTION	WP	WEATHER PROOF
G, GND	GROUND	N/A	NOT APPLICABLE
GWB	GYPSUM WALL BOARD	(R)	REMOVE
MH	MOUNTING HEIGHT	(RL)	RELOCATE
WP	WEATHER PROOF	(RPN)	REPLACE WITH NEW UNLESS OTHERWISE NOTED
UON	UNLESS OTHERWISE NOTED		

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
	FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
	FIRE ALARM HEAT DETECTOR, HIGH TEMPERATURE RATING 190°F FIXED TEMP. RATING	CEILING MOUNTED
	FIRE ALARM CONTROL RELAY (AIR HANDLER SHUTDOWN SOLENOID VALVE, ETC.)	SEE PLANS
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	DUCT MOUNTED (SEE MECH. DWGS.)
	FIRE ALARM TERMINAL CABINET - MIN. 18"x18"x6" WITH HINGED LOCKABLE COVER	M.H. 6'-0" AFF TO TOP
	FIRE ALARM ANNUNCIATOR PANEL	M.H. 6'-0" AFF TO TOP
	FIRE ALARM CONTROL PANEL	M.H. 6'-0" AFF TO TOP
	FIRE ALARM SYSTEM END OF LINE RESISTOR	SEE FIRE ALARM RISER
	FIRE ALARM SIGNAGE - "FIRE ALARM PULL STATION INSIDE"	M.H. 48" AFF TO TOP

ELECTRICAL LEGEND (EXISTING DEVICES)

SYMBOL	DESCRIPTION	MOUNTING
	EXISTING FLUORESCENT LIGHTING FIXTURE UV=INDICATES ULTRAVIOLET FIXTURE	CEILING MOUNTED
	EXISTING INCANDESCENT, FLUORESCENT OR HIGH INTENSITY DISCHARGE LIGHTING FIXTURE	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
	EXISTING LOCATION FOR SINGLE RECEPTACLE - 120VAC	SURFACE MOUNTED ABOVE COUNTER
	EXISTING SURFACE MOUNTED "PLUGMOLD" WITH OUTLETS	MOUNTED ABOVE COUNTER TOP
	EXISTING SINGLE POLE SWITCH	M.H. 48" AFF TO TOP
	EXISTING KEY OPERATED SWITCH, SINGLE POLE SWITCH	M.H. 48" AFF TO TOP
	EXISTING THREEWAY SWITCH	M.H. 48" AFF TO TOP
	EXISTING DIMMER SWITCH	
	EXISTING FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
	EXISTING FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
	EXISTING FIRE ALARM PULL STATION	WALL MOUNTED
	EXISTING FIRE ALARM INDICATION APPLIANCE	WALL MOUNTED
	EXISTING PANEL LOCATION	WALL MOUNTED
	EXISTING DATA DEVICES LOCATION	WALL MOUNTED
	EXISTING VOICE/DATA POLE TO REMAIN	MOUNTED CEILING TO FLOOR
	EXISTING DISCONNECT LOCATION	WALL MOUNTED

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

TOTAL PROJECT TIME PERIOD

THE TIME PERIOD FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION OF THE FINAL PHASE SHALL BE 345 DAYS.

a. 51 DAYS = SHOP DRAWING REVIEW AND MOBILIZATION
b. 84 DAYS = EQUIPMENT DELIVERY
c. 210 DAYS = CONSTRUCTION
TOTAL=345 DAYS

60 DAYS = FINAL COMPLETION AND PROJECT CLOSEOUT.

TOTAL PROJECT TIME PERIOD FROM NOTICE TO PROCEED TO FINAL COMPLETION SHALL BE 405 DAYS. SEE PHASING PLAN BELOW FOR A DETAILED BREAKDOWN OF THE ALLOWABLE TIME PERIOD OR EACH PHASE OF CONSTRUCTION.

PHASING PLAN

THE CONSTRUCTION SHALL BE REQUIRED TO BE IMPLEMENTED IN A PHASED MANNER THAT ALLOWS THE OWNER TO CONTINUE TO OCCUPY THE BUILDING AND PERFORM OPERATIONS. THE FOLLOWING PROPOSED PHASING APPROACH IS INTENDED TO OUTLINE THE GENERAL REQUIREMENTS OF THE PHASING WORK, THE GENERAL DEMARCATION OF THE PHASING ZONES, THE NUMBER OF PHASES, THE TIME PERIOD ALLOWED, AND OTHER RESTRICTIONS AND REQUIREMENTS. THIS PHASING OUTLINE IS NOT INTENDED TO DICTATE THE CONTRACTOR'S MEANS AND METHODS FOR IMPLEMENTING THE WORK. REFER TO THE DRAWINGS FOR THE PHASING DEMARCATION LINES AND OTHER REQUIREMENTS. THIS WILL BE AN OCCUPIED, OPERATIONAL BUILDING DURING CONSTRUCTION. PLAN ACCORDINGLY.

PHASE 1

- ALL ITEMS EXCEPT AS NOTED BELOW WITH UTILITY SERVICES, SUCH AS WATER, ELECTRICAL, TELECOMMUNICATIONS, DI WATER, GASES, ETC., SHALL BE DISCONNECTED BY THE CONTRACTOR AND PREPARED FOR MOVING. THE FOLLOWING ITEMS AND EQUIPMENT SHALL BE DISCONNECTED AND PREPARED FOR MOVING BY THE OWNER.
 - BALANCES, PH METERS, TURBID METER, OVENS; VARIOUS LOCATIONS
 - PERKIN ELMER FIMS 100; METALS LAB 115
 - DIONEX ICS 3000; GENERAL CHEMISTRY 123
 - DIONEX ICS 5000; GENERAL CHEMISTRY 123
 - DIONEX ICS 2500; ORGANICS LABORATORY 124
 - AGILENT (VARIAN) LC/MS/MS; ORGANICS LABORATORY 124
 - AGILENT (VARIAN) LC/MS; ORGANICS LABORATORY 124
 - AQUAMATE SPEC; GENERAL CHEMISTRY 123
 - JAR TEST APPARATUS; GENERAL CHEMISTRY 123
 - FUSION COT INSTRUMENT; GENERAL CHEMISTRY 123

THE CONTRACTOR SHALL MOVE ALL ITEMS AND EQUIPMENT OUT OF THE SPACES INTO OTHER AREAS FOR THEIR USE OR TO STORAGE CONTAINER AS REQUIRED. CONTRACTOR SHALL NOTIFY THE LAB MANAGER 30 DAYS PRIOR TO COMMENCEMENT OF PHASE WORK.

- THE CONTRACTOR SHALL PROVIDE AN ON SITE STORAGE CONTAINER. LOCATION WILL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL MOVE AND STORE ALL OF THE OWNERS PACKED AND BOXED ITEMS AND OTHER EQUIPMENT INTO AN ON-SITE STORAGE CONTAINER. THE MOVING AND STORING SHALL BE PERFORMED BY A PROFESSIONAL CERTIFIED, LICENSED, AND BONDED MOVING COMPANY. THE STORAGE CONTAINER WILL NOT BE REQUIRED TO BE AIR CONDITIONED.

- THE CONTRACTOR SHALL PUT UP NOISE AND DUST BARRIERS TO SEPARATE THE OWNERS OCCUPIED AREAS FROM THE CONSTRUCTION ZONE.

- THE CONTRACTOR SHALL COMMENCE DEMOLITION OF THE CEILING, LIGHTING, SWITCHWORK, HVAC EQUIPMENT, CABINETS (WHERE APPLICABLE), ETC. CARE AND CAUTION SHALL BE TAKEN DURING DEMOLITION TO ENSURE THE FOLLOWING:
 - MEANS OF EGRESS IS MAINTAINED FOR THE OCCUPIED AREAS.

- ELECTRICAL POWER SHALL REMAIN IN OPERATION IN OCCUPIED AREAS, EXCEPT FOR ANY REQUIRED PRIOR APPROVED AND SCHEDULED OUTAGES. A SCHEDULED OUTAGE WILL BE REQUIRED TO PROVIDE THE NEW SERVICE AND NEW PANEL NDF. THIS OUTAGE WILL BE REQUIRED TO BE PERFORMED OVER A WEEKEND.

- POWER WILL BE REQUIRED TO REMAIN ON FOR LIGHTING AND ALL BRANCH CIRCUITS TO THE AREAS OUTSIDE THE CONSTRUCTION ZONE. PROVIDE TEMPORARY RE-ROUTING OF ELECTRICAL CIRCUITS AS NECESSARY. EMERGENCY LIGHTING SHALL REMAIN OPERATIONAL. REFER TO SECTION 16050 FOR MORE REQUIREMENTS.

- TELECOMMUNICATIONS SERVICES SHALL REMAIN IN OPERATION IN OCCUPIED AREAS. ALL VOICE AND DATA CABLING SHALL BE PROTECTED. REFER TO SECTION 16050 FOR MORE REQUIREMENTS.

- THE NEW FIRE ALARM CONTROL PANEL SHALL BE INSTALLED DURING PHASE 1 AND CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL FOR MONITORING. SEE SECTION 16721 FOR MORE REQUIREMENTS. THERE SHALL BE AN OPERATIONAL AND FUNCTIONAL FIRE ALARM SYSTEM IN ALL OCCUPIED AREAS AT ALL TIMES.

- ALL EXISTING HVAC SYSTEMS, INCLUDING AIR HANDLERS, FUME HOOD EXHAUST, GENERAL EXHAUST, AND CONTROLS, SHALL REMAIN OPERATIONAL IN THE PHASE 2, 3, AND 4 AREAS.

- ALL EXISTING WATER AND SANITARY SEWER SYSTEMS SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION IN THE PHASE 2, 3, AND 4 AREAS.

- INSTALL ALL NEW WORK SCHEDULED AND INDICATED IN THE CONTRACT DOCUMENTS, AND AS REQUIRED FOR THE COMPLETION OF THIS PHASE INCLUDING TEST AND BALANCE OF ALL AREAS, OTHER REQUIRED TESTING, PAINTING, AND CLEAN-UP.

- SCHEDULE AND PASS A SUBSTANTIAL COMPLETION INSPECTION PRIOR TO STARTING TO THE NEXT PHASE OF WORK.
- MOVE ALL BOXES FROM STORAGE BACK INTO THIS AREA. THE OWNER WILL UN-PACK AND MOVE BACK INTO THE SPACE.
- WARRANTY PERIODS SHALL NOT COMMENCE UNTIL ALL PHASES ARE COMPLETE.
- THIS PHASE SHALL BE COMPLETE IN 60 DAYS.

PHASE 2

- REPEAT STEPS 1 THROUGH 8, AS NOTED IN PHASE 1, EXCEPT THE EXISTING WATER AND SEWER SYSTEMS IN PHASE 1, 3 & 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION. THE EXISTING HVAC SYSTEM IN PHASE 1 AND 4 SHALL REMAIN OPERATIONAL AND PROTECTED DURING CONSTRUCTION.

ELECTRICAL GENERAL NOTES:

(THESE NOTES APPLY TO ALL SHEETS)

- ALL WORK SHALL COMPLY WITH THE LATEST ACCEPTED VERSIONS OF THE FOLLOWING:
 - 2010 FLORIDA BUILDING CODE (FBC), EFFECTIVE MARCH 15, 2012;
 - 2010 FLORIDA FIRE PREVENTION CODE (FFPC); (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.); (EFFECTIVE DECEMBER 31, 2011)
 - 2008 NATIONAL ELECTRICAL CODE
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK INVOLVED.
- "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- 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.
- 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.
- 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.
- APPLY A BITUMASTIC COATING FOR ALL CONDUITS PENETRATING FLOOR SLABS FROM BELOW GRADE.
- PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION.
- PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH-IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
- PROVIDE FIRE-STOPPING AT ALL FIRE WALL PENETRATIONS. USE A U.L. APPROVED SYSTEM LISTED FOR THE ASSOCIATED INSTALLATION.
- 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.
- MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED UNLESS APPROVED BY THE OWNER AND ENGINEER.
- ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
- ALL RECEPTACLES SHALL HAVE A GROUND TERMINAL.
- WHEN REPAIRING 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.
- 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.
- THE COLOR OF ALL RECEPTACLES, TOGGLE SWITCHES AND COVERPLATES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING.
- PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
- BRANCH CIRCUIT SHALL NOT BE RUN UNDERGROUND UNLESS SPECIFIED OR APPROVED BY THE OWNER AND ENGINEER. ROUTE CONCEALED IN WALL AND ABOVE CEILING. DISTRIBUTION FEEDERS FROM THE MAIN SWITCHBOARD MAY BE RUN UNDERGROUND.
- SYSTEMS (FIRE ALARM, INTERCOM, TV, VOICE/DATA, SECURITY) WIRING SHALL NOT BE RUN UNDERGROUND.
- 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.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- PROVIDE FOR ELECTRICAL CIRCUITS THAT WILL NEED TO EXTEND FROM PHASE 2 INTO PHASE 3 AND 4 SUCH THAT THE DISRUPTION TO THE PHASE 2 AREA IS MINIMAL DURING THE CONSTRUCTION OF PHASE 3 AND 4.

- PROVIDE FOR HVAC SYSTEMS EXTENSION INTO PHASE 3 AND 4 SUCH THAT THE DISRUPTION TO THE PHASE 2 AREA IS MINIMAL DURING THE CONSTRUCTION OF

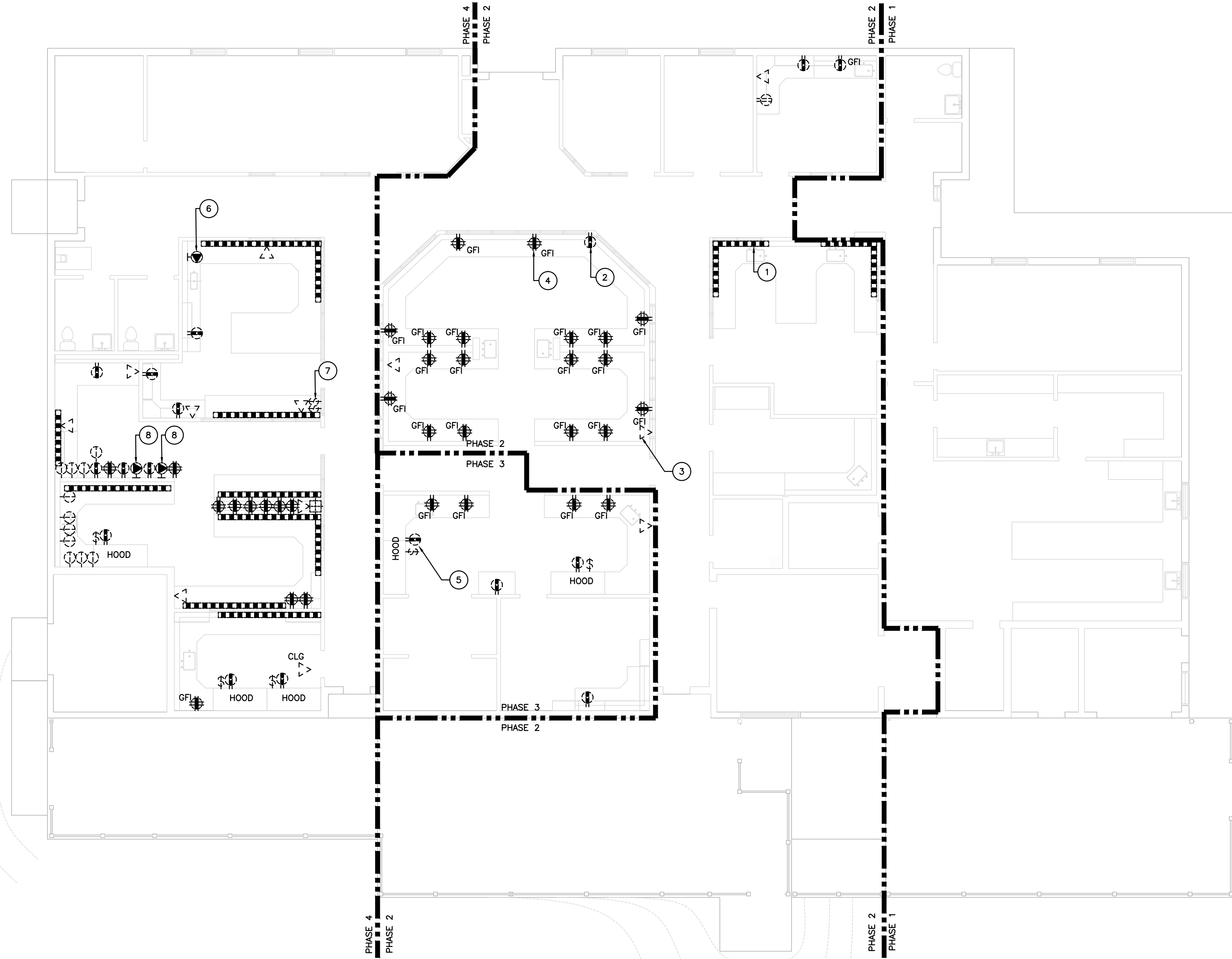
DAVID L. TIPPIN
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 7125 NORTH 30TH STREET, TAMPA, FL 33610

POWER CABINET DEMOLITION PLAN

AGI
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 Mechanical & Electrical Consulting Engineers
 1115 West Harbor Avenue, Tampa, FL 33622 (813) 264-9419
 Florida Engineering License Number 0676

DRAWN
 EJV
 CHECKED
 RCA
 DATE
 1/10/2014
 SCALE
 AS NOTED
 AGI PROJECT
 13009
 SHEET

E011



POWER CABINET DEMOLITION PLAN
 SCALE: 1/8"=1'-0"

DEMOLITION GENERAL NOTES:

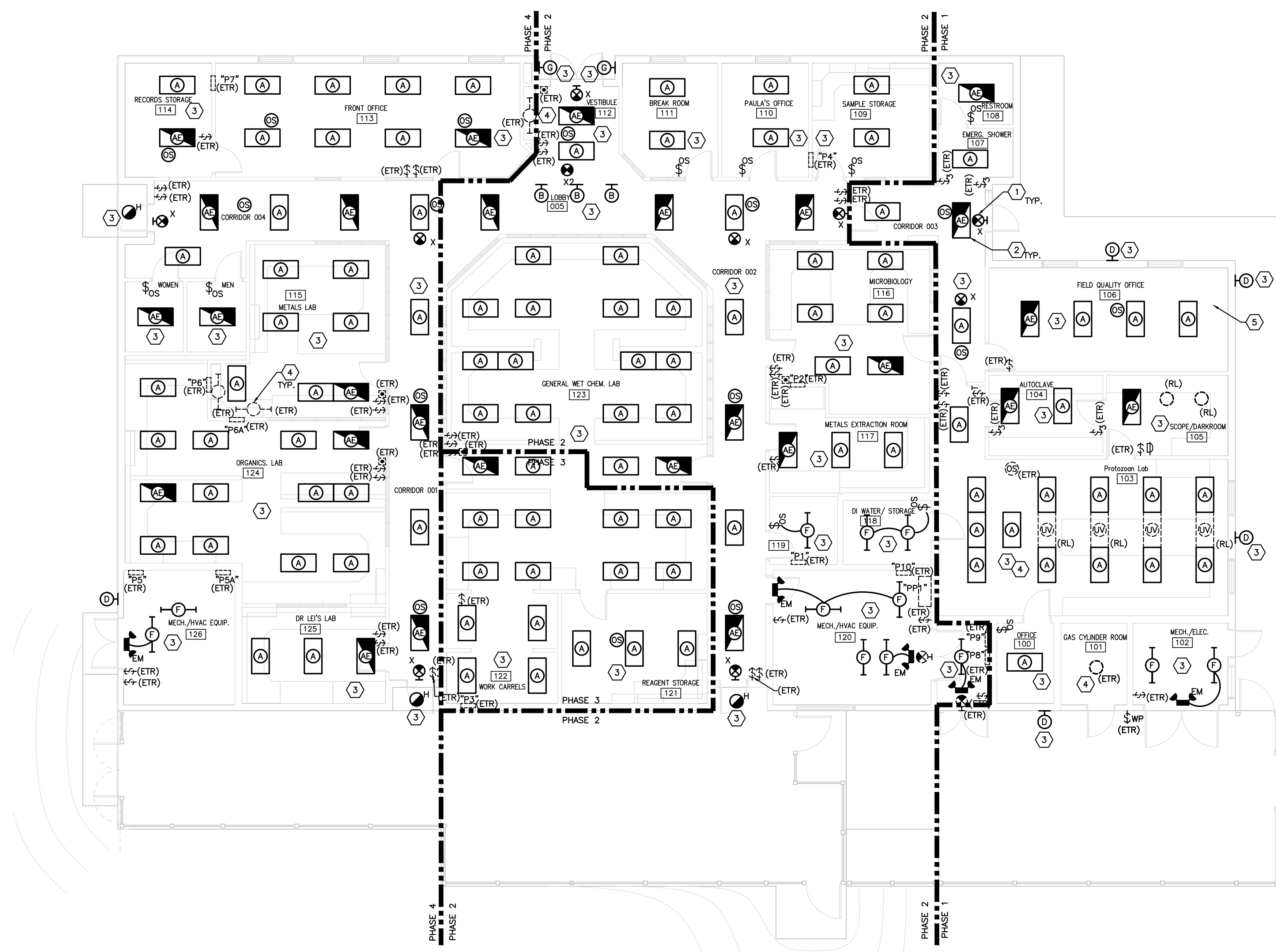
1. REFER TO DRAWINGS FOR THE AREAS AND EXTENT OF THE REQUIRED DEMOLITION.
2. SPLICE AND EXTEND CIRCUITS AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING LIGHT FIXTURES AND OTHER EQUIPMENT WHICH IS TO REMAIN.
3. EXISTING LIGHTING FIXTURES, SWITCHES, DEVICES, WIRING, RACEWAY, AND JUNCTION BOXES WHICH ARE NOT BEING REUSED SHALL BE REMOVED AND THE WALLS OR CEILINGS SHALL BE PATCHED AND PAINTED TO MATCH THE SURROUNDING AREA.
4. EXTEND CIRCUITS AS NECESSARY TO DEVICE WHICH ARE TO REMAIN MAINTAIN CIRCUIT CONTINUITY.
5. RETAIN CIRCUIT INTEGRITY FOR ALL DEVICES OUTSIDE OF WORK AREA THAT SHALL BE SCHEDULE TO REMAIN.

DEMOLITION NOTES:

1. EXISTING SURFACE MOUNTED ABOVE COUNTER POWER STRIP TO BE REMOVED AND RETAIN EXISTING BRANCH CIRCUIT FOR EXTENSION AND RECONNECTION OF NEW RECEPTACLES IN NEW CASEWORK. (TYPICAL)
2. EXISTING RECEPTACLE AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW AND RETAIN EXISTING BRANCH CIRCUIT AND RECONNECT NEW RECEPTACLE BACK TO EXISTING BRANCH CIRCUIT, EXTEND CONDUIT AND WIRING AS REQUIRED AND MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW RECEPTACLE LOCATION. (TYPICAL)
3. EXISTING COMMUNICATION OUTLET AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW AND RETAIN EXISTING DATA/VOICE CABLING AND RECONNECT NEW COMMUNICATION OUTLET BACK TO EXISTING CABLING. MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW COMMUNICATION OUTLET LOCATION. (TYPICAL)
4. EXISTING SURFACE ABOVE THE COUNTER QUAD RECEPTACLE AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW AND RETAIN EXISTING BRANCH CIRCUIT AND RECONNECT NEW RECEPTACLE BACK TO EXISTING BRANCH CIRCUIT, EXTEND CONDUIT AND WIRING AS REQUIRED AND MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW RECEPTACLE LOCATION. (TYPICAL)
5. EXISTING FLUSH MOUNTED HOOD SWITCH AND RECEPTACLE AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW IN SAME LOCATION AND RETAIN EXISTING BRANCH CIRCUIT AND RECONNECT NEW SWITCH AND RECEPTACLE BACK TO EXISTING BRANCH CIRCUIT, EXTEND CONDUIT AND WIRING AS REQUIRED AND MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW RECEPTACLE LOCATION. (TYPICAL)
6. EXISTING FLUSH MOUNTED NEMA L6-30R TWIST LOCK RECEPTACLE AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW AND RETAIN EXISTING BRANCH CIRCUIT AND RECONNECT NEW RECEPTACLE BACK TO EXISTING BRANCH CIRCUIT, EXTEND CONDUIT AND WIRING AS REQUIRED AND MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW RECEPTACLE LOCATION. (TYPICAL)
7. EXISTING FLUSH MOUNTED WALL SWITCH AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW AND RETAIN EXISTING BRANCH CIRCUIT AND RECONNECT NEW WALL SWITCH BACK TO EXISTING BRANCH CIRCUIT, EXTEND CONDUIT AND WIRING AS REQUIRED AND MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW SWITCH LOCATION. (TYPICAL)
8. EXISTING SURFACE MOUNTED NEMA L6-20R TWIST LOCK RECEPTACLE AND COVER PLATES ARE TO BE REMOVED AND REPLACE WITH NEW AND RETAIN EXISTING BRANCH CIRCUIT AND RECONNECT NEW RECEPTACLE BACK TO EXISTING BRANCH CIRCUIT, EXTEND CONDUIT AND WIRING AS REQUIRED AND MAKE ALL FINAL CONNECTIONS. SEE NEW WORK FOR NEW RECEPTACLE LOCATION. (TYPICAL)

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	VOLTS	LAMPS	MOUNTING
A	2x4 LED FIXTURE WITH METAL DIFFUSER, LITHONIA 2VTLED-40L-ADP-MVOLT-D40-LP840-XX, OR APPROVED EQUAL METALUX, DAYBRITE.	MVOLT	LED, 40 WATTS, 4000 LUMENS	RECESSED CEILING GRID
AE	SAME AS TYPE 'A' EXCEPT EQUIPPED WITH EMERGENCY BATTERY BACKUP, LITHONIA 2VTLED-40L-ADP-MVOLT-D40-LP840-XX-EL14L, OR APPROVED EQUAL METALUX, DAYBRITE.	MVOLT	LED, 40 WATTS, 4000 LUMENS	RECESSED CEILING GRID
B	LED UP/DOWN WALL CYLINDER LIGHT, CONSTRUCTED OF CAST ALUMINUM HOUSING WITH CORROSION-RESISTANT PAINT (WHITE) LITHONIA OLLWLV-XX-MVOLT-WH OR APPROVED EQUAL METALUX, DAYBRITE.	MVOLT	LED, 14 WATTS, 500 LUMENS	WALL MOUNTED
D	WALL MOUNTED FLOOD LIGHT, DIE CAST ALUMINUM HOUSING, 100,000 HOUR INDUCTION LAMP, TEMPERED GLASS LENS, FIELD ADJUSTABLE, 12,600 LUMENS, COLOR SELECTED BY OWNER - BUFF. EVERLAST INDUCTION LIGHTING # EOF-ED-150W.	UNIV	150 WATT INDUCTION, 5,000 DEGREE KELVIN	WALL AT EXISTING LOCATION
EM	LED EMERGENCY REMOTE UNIT CONSTRUCTED WITH THERMOPLASTIC HOUSING, ADJUSTABLE LAMP HEADS, LISTED FOR WET LOCATION, LITHONIA EU2-LED-M12 OR APPROVED EQUAL METALUX, DAYBRITE.	120/277	LED, 3.6 WATTS,	WALL MOUNTED
F	4 FLOURESCENT INDUSTRIAL FIXTURE LITHONIA L-232-MVOLT-GE810PS-WGL-HCXX) OR APPROVED EQUAL METALUX, DAYBRITE. PROVIDE WITH WIREGUARD.	MVOLT	2-48" 32W/8 3500K	CHAIN HUNG, 8'-0" AFF. CHAIN LENGTH AS REQUIRED
G	LED WALL LUMINAIRE WITH HIGH OUTPUT LEDS TO PROVIDE ENERGY EFFICIENT, LOW MAINT LED WALL PACK. BACK PLATE IS DIE CAST ALUMINUM WITH FRONT COVER IMPACT RESISTANT POLYCARBONATE AND GASKETED. LITHONIA TWS-LED-150K-120-PE OR APPROVED EQUAL METALUX, DAYBRITE.	120	LED 19 WATTS 1000 LUMENS	WALL AT EXISTING LOCATION

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	VOLTS	LAMPS	MOUNTING
H	6" ROUND RECESSED LED DOWNLIGHT, LISTED FOR WET LOCATION, PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK-UP, LITHONIA DDM6 LED-900L-40K-120-DL64-ELRB722 OR APPROVED EQUAL METALUX, DAYBRITE.	120	LED, 25 WATTS, 900LUMENS	RECESSED CEILING EXISTING LOCATION
X	LED EXIT SIGN, CONSTRUCTED OF HIGH POLISH INJECTION MOLDED ACRYLIC PANEL, WITH INTEGRAL BATTERY BACK UP NICAD, LITHONIA SOLO-W-1-RMR-SD (SINGLE FACE) OR APPROVED EQUAL METALUX, DAYBRITE.	120/277	LED	UNIVERSAL MOUNTING
X2	LED EXIT SIGN, CONSTRUCTED OF HIGH POLISH INJECTION MOLDED ACRYLIC PANEL, WITH INTEGRAL BATTERY BACK UP NICAD, LITHONIA SOLO-W-2-RMR-SD (DOUBLE FACE) OR APPROVED EQUAL METALUX, DAYBRITE.	120/277	LED	UNIVERSAL MOUNTING



LIGHTING GENERAL NOTES:

- GROUNDING OF THE LIGHTING CIRCUITS WILL BE REQUIRED. ALL NEW CIRCUITS SHALL HAVE A SEPARATE GROUND CONDUCTOR IN EACH BRANCH CIRCUIT. EXISTING CIRCUITS BEING EXTENDED SHALL HAVE A GROUND CONDUCTOR ADDED AT THE NEAREST JUNCTION BOX AND BONDED TO THE BOX. THE EXISTING RACEWAY SHALL BE INSPECTED AND ALL SUPPORTS AND CONNECTIONS TIGHTENED TO PROVIDE FOR A SAFE BRANCH CIRCUIT GROUND.
- EXISTING LIGHT SWITCHES AREA SHALL REMAIN UNLESS OTHERWISE NOTED. REMOVE UNUSED SWITCHES AND CONDUCTORS BACK TO THE LAST DEVICE THAT IS TO REMAIN PROVIDE NEW SWITCHES WHERE SHOWN, AND REMOVE EXISTING SWITCH THAT IS TO BE REPLACED BY NEW SWITCH.
- CONNECT EXIT SIGNS TO THE UNSWITCHED LEG OF LOCAL LIGHTING.
- EXISTING CONDUCTORS AND CONDUITS MAY BE REUSED WHERE IN GOOD CONDITION. ANY REUSED CONDUIT SHALL BE SUPPORTED PER NEC, AND ALL CONNECTIONS TIGHTENED.

DRAWING NOTES

- EXIT LIGHTS 'X' LIGHTS ARE A NEW FIXTURE SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT BUT SHALL NOT BE SWITCHED.
- FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SWITCHED AFTER THE EMERGENCY PACK SUCH THAT THE BATTERY PACK CONTINUOUSLY SEES NORMAL POWER. THE EMERGENCY BATTERY BACK-UP SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY ILLUMINATE THE FIXTURE IN THE EVENT OF LOSS OF NORMAL POWER. SEE TYPICAL BATTERY BALLAST WIRING DIAGRAM, THIS SHEET. TYPICAL FOR ALL FIXTURES HALF SHADED.
- ELECTRICAL CONTRACTOR SHALL EXTEND THE EXISTING LIGHTING BRANCH CIRCUIT AS REQUIRED TO EXISTING RESPECTIVE LIGHTING PANEL. CONCEAL NEW CONDUIT BETWEEN EXISTING WALLS AND ABOVE CEILING. PROVIDE JUNCTION BOX WITH BLANK COVER PLATE IN CEILING SPACE AS REQUIRED TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUITS.
- CLEAN AND RE-LAMP ALL EXISTING LIGHTING FIXTURES BEING REUSED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION.

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

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LIGHTING FLOOR PLAN

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AGI

DRAWN	EJV
CHECKED	RCA
DATE	1/10/2014
SCALE	AS NOTED
AGI PROJECT	13009
SHEET	

E100

"PP2" (REMOVE PANEL UNDER PHASE 4)

PANEL: PP2 AIC RATING: EXIST AMPS SERVICE: 120/208 V., 3PH,4W MLO: 0 AMPS MCB: 800 AMPS													
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION			
SPARE	0	3P	1				2		0	SPACE			
SPARE	0	110	3				4		0	SPACE			
SPARE	0	"	5				6		0	SPACE			
SPARE	0	3P	7				8		0	SPACE			
SPARE	0	110	9				10		0	SPACE			
SPARE	0	"	11				12		0	SPACE			
A/C/CU2A	10.3	3P	13				14	3P	10.3	A/C/CU2B			
A/C/CU2A	10.3	110	15				16	110	10.3	A/C/CU2B			
A/C/CU2A	10.3	"	17				18	"	10.3	A/C/CU2B			
SPACE	0	"	19				20	"	0	SPACE			
SPACE	0	"	21				22	"	0	SPACE			
SPACE	0	"	23				24	"	0	SPACE			
SPACE	0	"	25				26	"	0	SPACE			
SPACE	0	"	27				28	"	0	SPACE			
SPACE	0	"	29				30	"	0	SPACE			
SPACE	0	"	31				32	"	0	SPACE			
SPACE	0	"	33				34	"	0	SPACE			
SPACE	0	"	35				36	"	0	SPACE			
SPACE	0	"	37				38	"	0	SPACE			
SPACE	0	"	39				40	"	0	SPACE			
SPACE	0	"	41				42	"	0	SPACE			
SPACE	0	"	41				42	"	0	SPACE			
A PH = 20.60				B PH = 20.60				C PH = 20.60					
SERVES	CONN LOAD	FACTOR	FEED	DIVERSITY	KVAD	PANEL	KVAD						
LIGHTING	0.00	x 1.25	=	0.00	x	=							
RECEPT	0.00	x *	=	0.00	x	=							
MISC EQUIP	0.00	x 1.00	=	0.00	x	=							
A/C	61.80	x 1.00	=	61.80	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	61.80	KVA		287.87	KVA								

* PER N.E.C. TABLE 220.44

"MDP"-- NEW PANEL

PANEL: MDP AIC RATING: EXIST AMPS SERVICE: 120/208 V., 3PH,4W MLO: 0 AMPS MCB: 1000 AMPS ***													
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION			
A/C; CH1	63.4	3P	1				2	3P	0	A/C; CH2			
A/C; CH1	63.4	600	3				4	600	0	A/C; CH2			
A/C; CH1	63.4	"	5				6	"	0	A/C; CH2			
MTR; CHWP1	2.9	3P	7				8	3P	0	MTR; CHWP-2			
MTR; CHWP1	2.9	40	9				10	40	0	MTR; CHWP-2			
MTR; CHWP1	2.9	"	11				12	"	0	MTR; CHWP-2			
A/C; CU1B	10.3	3P	13				14	3P	10.3	A/C; CU1A			
A/C; CU1B	10.3	110	15				16	110	10.3	A/C; CU1A			
A/C; CU1B	10.3	"	17				18	"	10.3	A/C; CU1A			
MTR; EF3 ON ROOF	3.7	3P	19				20	3P	0	MTR; EF2 ON ROOF			
MTR; EF3 ON ROOF	3.7	60	21				22	60	0	MTR; EF2 ON ROOF			
MTR; EF3 ON ROOF	3.7	"	23				24	"	0	MTR; EF2 ON ROOF			
MTR; EF4 ON ROOF	0	3P	25				26	"	0	SPACE			
MTR; EF4 ON ROOF	0	60	27				28	"	0	SPACE			
MTR; EF4 ON ROOF	0	"	29				30	"	0	SPACE			
SPACE	0	"	31				32	"	0	SPACE			
SPACE	0	"	33				34	"	0	SPACE			
SPACE	0	"	35				36	"	0	SPACE			
SPACE	0	"	37				38	3P	0	SPD			
SPACE	0	"	39				40	60	0	SPD			
SPACE	0	"	41				42	"	0	SPD			
A PH = 90.60				B PH = 90.60				C PH = 90.60					
SERVES	CONN LOAD	FACTOR	FEED	DIVERSITY	KVAD	PANEL	KVAD						
LIGHTING	0.00	x 1.25	=	0.00	x	=							
RECEPT	0.00	x *	=	0.00	x	=							
MISC EQUIP	0.00	x 1.00	=	0.00	x	=							
A/C **	252.00	x 0.50	=	126.00	x	=							
HEATING	0.00	x 1.00	=	0.00	x	=							
LARGEST MOTOR	11.10	x 1.25	=	13.88	x	=							
OTHER MOTORS	8.70	x 1.00	=	8.70	x	=							
OTHER	0.00	x 1.00	=	0.00	x	=							
SPARE													
TOTALS	271.80	KVA		359.84	KVA								

* PER N.E.C. TABLE 220.44

NOTES:
 ** CHILLER LOAD IN PHASE 1 SHALL BE LIMITED TO 50% OF THE LOAD VIA HVAC CONTROLS.
 *** PROVIDE 1000A FEED THRU LUGS.
 **** REMOVE EXISTING A/C UNITS UNDER PHASE 2, AND LABEL SPARE.
 ***** CH2 & CHWP2 ARE BACKUP UNITS.

"PP1"

PANEL: PP1 AIC RATING: EXIST AMPS SERVICE: 120/208 V., 3PH,4W MLO: 0 AMPS MCB: 1200 AMPS													
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION			
E PNL P10	22.1	3P	1				2	3P	4.1	HEAT; DH113			
E PNL P10	21.3	225	3				4	50	4.1	HEAT; DH113			
E PNL P10	21.3	"	5				6	"	4.1	HEAT; DH113			
E EQ; STERILIZER	8	3P	7				8	3P	4.6	HEAT; DH117			
E EQ; STERILIZER	8	100	9				10	60	4.6	HEAT; DH117			
E EQ; STERILIZER	8	"	11				12	"	4.6	HEAT; DH117			
N MTR; AH2	2.9	3P	13				14	3P	12.8	HEAT; DH1			
N MTR; AH2	2.9	40	15				16	150	12.8	HEAT; DH1			
N MTR; AH2	2.9	"	17				18	"	12.8	HEAT; DH1			
E PNL P1	5.05	3P	19				20	3P	8	PNL P2			
E PNL P1	12.85	100	21				22	100	8	PNL P2			
E PNL P1	3.2	"	23				24	"	8	PNL P2			
E PNL P3	9.6	3P	25				26	3P	9	PNL P4			
E PNL P3	9.6	125	27				28	125	9	PNL P4			
E PNL P3	9.6	"	29				30	"	9	PNL P4			
E PNL P5	16.2	3P	31				32	3P	0	PNL P6			
E PNL P5	16.7	200	33				34	225	0	PNL P6			
E PNL P5	14.9	"	35				36	"	0	PNL P6			
E PNL P7	8	3P	37				38	3P	5.5	MTR; EF1 ON ROOF			
E PNL P7	8	100	39				40	90	5.5	MTR; EF1 ON ROOF			
E PNL P7	8	"	41				42	"	5.5	MTR; EF1 ON ROOF			
A PH = 115.85				B PH = 123.35				C PH = 111.90					
SERVES	CONN LOAD	FACTOR	FEED	DIVERSITY	KVAD	PANEL	KVAD						
LIGHTING	0.00	x 1.25	=	0.00	x	=							
RECEPT	0.00	x *	=	0.00	x	=							
MISC EQUIP	24.00	x 1.00	=	24.00	x	=							
A/C	0.00	x 1.00	=	0.00	x	=							
HEATING	64.50	x 1.00	=	64.50	x	=							
LARGEST MOTOR	16.50	x 1.25	=	20.63	x	=							
OTHER MOTORS	8.70	x 1.00	=	8.70	x	=							
OTHER	237.40	x 1.00	=	237.40	x	=							
SPARE													
TOTALS	351.10	KVA		431.81	KVA								

* PER N.E.C. TABLE 220.44

"P10"-- EXISTING PANEL

PANEL: P10 AIC RATING: EXIST AMPS SERVICE: 120/208 V., 3PH,4W MLO: 225 AMPS MCB:													
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION			
N HEAT; DH001	2.6	3P	1				2	3P	1.1	HEAT; DH002			
N HEAT; DH001	2.6	30	3				4	20	1.1	HEAT; DH002			
N HEAT; DH001	2.6	"	5				6	"	1.1	HEAT; DH002			
N HEAT; DH003	0.9	3P	7				8	20	0.8	HEAT; DH100			
N HEAT; DH003	0.9	20	9				10	3P	2.4	HEAT; DH103			
N HEAT; DH003	0.9	"	11				12	30	2.4	HEAT; DH103			
N HEAT; DH005	1.3	3P	13				14	"	2.4	HEAT; DH103			
N HEAT; DH005	1.3	20	15				16	3P	2.2	HEAT; DH104			
N HEAT; DH005	1.3	"	17				18	30	2.2	HEAT; DH104			
N HEAT; DH109	2.2	3P	19				20	"	2.2	HEAT; DH104			
N HEAT; DH109	2.2	30	21				22	3P	1.8	HEAT; DH106			
N HEAT; DH109	2.2	"	23				24	20	1.8	HEAT; DH106			
N HEAT; DH115	1.2	3P	25				26	"	1.8	HEAT; DH116			
N HEAT; DH115	1.2	20	27				28	3P	1	HEAT; DH116			
N HEAT; DH115	1.2	"	29				30	20	1	HEAT; DH116			
N HEAT; DH121	1.7	3P	31				32	"	1	HEAT; DH116			
N HEAT; DH121	1.7	20	33				34	3P	2	HEAT; DH124			
N HEAT; DH121	1.7	"	35				36	30	2	HEAT; DH124			
N HEAT; DH122	0.9	3P	37				38	"	2	HEAT; DH124			
N HEAT; DH122	0.9	20	39				40	"	0	SPACE			
N HEAT; DH122	0.9	"	41				42	"	0	SPACE			
A PH = 22.10				B PH = 21.30				C PH = 21.30					
SERVES	CONN LOAD	FACTOR	FEED	DIVERSITY	KVAD	PANEL	KVAD						
LIGHTING	0.00	x 1.25	=	0.00	x	=							
RECEPT	0.00	x *	=	0.00	x	=							
MISC EQUIP	0.00	x 1.00	=	0.00	x	=							
A/C	0.00	x 1.00	=	0.00	x	=							
HEATING	64.70	x 1.00	=	64.70	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	64.70	KVA		80.96	KVA								

* PER N.E.C. TABLE 220.44

"P9"-- EXISTING PANEL

PANEL: P9 AIC RATING: EXIST AMPS SERVICE: 120/208 V., 3PH,4W MLO: 400 AMPS MCB: 0 AMPS												
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION		
N MTR; AH3	0.9	3										

