THE COMMUNITY COLLEGE OF PHILADELPHIA | 1700 SPRING GARDEN STREET | PHILADELPHIA, PA

WEST BUILDING | FOURTH FLOOR RENOVATIONS

ADDENDUM No 2 | 3 SEPTEMBER 2013

REVISIONS

2	9/03/13 ADDENDUM No 2
1	8/26/13 ADDENDUM No 1
	8/16/13 ISSUE FOR PERMIT
	8/15/13 ISSUE FOR BID

SEALS

DRAWING SYMBOL LEGEND

SYMBOL DESIGNATIONS

- SECTION NO. / SHEET NO. — SECTION
- ELEVATION NO. / SHEET NO. — ELEVATION
- DETAIL NO. / SHEET NO. — DETAIL
- NOTE
- COLUMN GRID BUBBLE
- WALL TYPE
- BORROWED LIGHT NO.
- SIGN TYPE
- EQUIPMENT TAG
- DOOR NO.

MATERIAL DESIGNATIONS

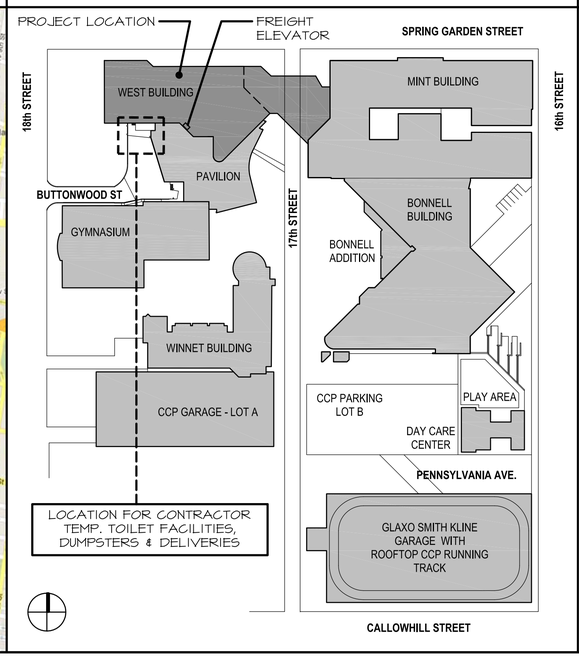
- CONCRETE
- BRICK
- STEEL
- WOOD BLOCKING
- PLYWOOD
- CONCRETE MASONRY UNIT
- GYPSUM WALLBOARD
- GUNNITE / SHOTCRETE
- EXISTING CONSTRUCTION

DRAWING DESIGNATIONS

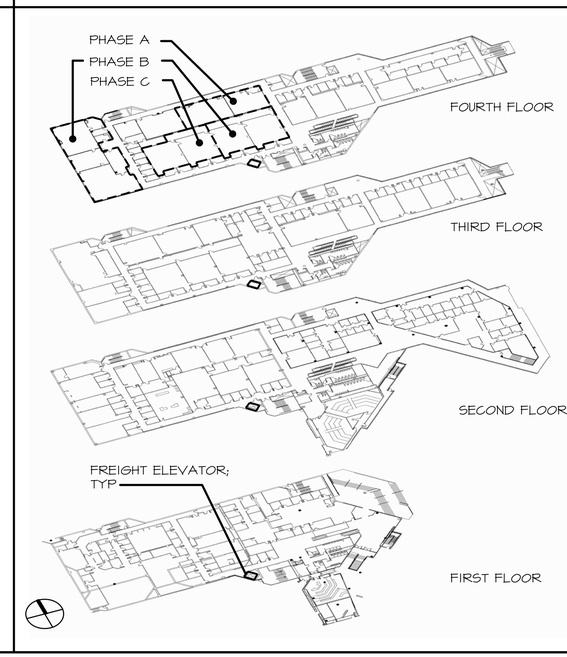
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- NEW WALL
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- NEW DOOR

LOCATION MAP - PHILADELPHIA

CCP CAMPUS MAP & SITE UTILIZATION PLAN



FLOOR DIAGRAM - WEST BUILDING



GENERAL NOTES

1. DO NOT SCALE DRAWINGS. USE DIMENSIONS AS NOTED.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, & IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCY.
3. THE EXTENT OF SEALANT INSTALLATION INCLUDES, BUT IS NOT LIMITED TO THE DETAILS INDICATED ON THE DRAWINGS. ALL INTERSECTIONS OF DISSIMILAR MATERIALS ARE TO RECEIVE SEALANT UNLESS RECOMMENDED OTHERWISE BY PRODUCT MANUF. INSTALL SEALANT BETWEEN SIMILAR MATERIALS AS SPECIFIED.
4. FIRESTOP ALL FLOOR PENETRATIONS, FIRE RATED SHAFTWAYS, PARTITIONS & ENCLOSURES.
5. THE EXTENT OF PAINTED SURFACES INCLUDES, BUT IS NOT LIMITED TO WHAT IS INDICATED ON THE DRAWINGS.
6. IT IS IMPORTANT TO NOTE THAT THESE PROJECT REQUIREMENTS ARE NOT NECESSARILY STANDARD OR NORMAL PRACTICES IN CONSTRUCTION. SPECIAL PROVISIONS AND EFFORTS IN LAYOUT, FABRICATION, CONSTRUCTION, MEANS AND METHODS, AND THE PROCUREMENT OF NON-STANDARD EQUIPMENT/ APPARATUS MAY BE REQUIRED FOR THE PROPER EXECUTION OF THIS PROJECT.
7. NOTHING IN THE CONTRACT DOCUMENTS, INCLUDING SPECIFICATIONS FROM MANUFACTURER OR SUPPLIERS OVER WHOM THE ARCHITECT HAS NO CONTROL, SHALL BE CONSTRUED TO EXPRESS, IMPLY OR REPRESENT IN ANY WAY THAT THE ARCHITECT IS OFFERING ANY OPINION WHATSOEVER AS TO THE EASE OR DIFFICULTY OF ANY METHODOLOGY WHICH MIGHT BE EMPLOYED BY THE CONTRACTOR IN PERFORMING THE WORK.
8. THE OWNER RECOGNIZES THE FACT THAT THIS PROJECT INVOLVES RENOVATION TO AN EXISTING BUILDING. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL BE RESPONSIBLE FOR WORK DESIGNED BY THE ARCHITECTS AND ARCHITECT'S CONSULTANTS. THE ARCHITECTS AND ARCHITECT'S CONSULTANTS SHALL NOT BE RESPONSIBLE FOR EXISTING OR PRE-EXISTING CONDITIONS OF THE BUILDING OR SITE. THE OWNER ALSO RECOGNIZES THE NEED TO RESERVE CONTINGENCY FUNDS FOR CHANGES REQUIRED TO ADDRESS UNFORESEEN CONDITIONS DISCOVERED AT THE BUILDING ON SITE DURING SELECTIVE DEMOLITION OR CONSTRUCTION OF THIS PROJECT.

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
AC/DR	ACCESS DOOR
ACT	ACOUSTICAL TILE
A/C	AIR CONDITIONING (ER)
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
ANG	ANGLE
ARCH	ARCHITECT (URAL)
@	AT
ASPH	ASPHALT
BACK	SPL BACKSPLASH
B&B	BALLED & BURLAPPED
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BLK	BLOCK
BLK'G	BLOCKING
BLT	BOLT (ED)
BM	BENCH MARK
B.O.	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
B.U.R.	BUILT-UP ROOFING
BW	BOTH WAYS
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CHBD	CHALKBOARD
C.I.	CAST IRON
C.J.	CONTROL JOINT
CLG	CEILING
CLK'G	CAULKING
CLR	CLEAR
C.M.A.	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACT (OR)
CONTRSK	COUNTERSINK
CORR	CORRIDOR
CORRUG	CORRUGATED
CPR	COPPER
CPT	CARPET
CRS	COURSE
CSMT	CASEMENT
CT	CERAMIC TILE
DET	DETAIL
D.F.	DRINKING FOUNTAIN
D.H.	DOUBLE HUNG
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DPPR'G	DAMPPROOFING
DR(S)	DOOR (S)
DWG	DRAWING
DRN	DRAIN
EA	EACH
ELEC	ELECTRIC (AL)
EL	ELEVATION
ELEV	ELEVATOR
EQ	EQUAL
EST	ESTIMATED
E.W.A.	ELECTRIC WATER COOLER
EXG	EXISTING
EXP. JT.	EXPANSION JOINT
EXT	EXTERIOR
EXTRU	EXTRUDED
F.B.	FACE BRICK
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FIN	FINISH (ED)
FLD	FIELD
FL'G	FLASHING
FLR	FLOOR
FPC	FIRE PROTECTION CABINET
FR	FRAME
FRT	FLAME RETARDANT TREATED
FRTG	FIRE RATING
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GL	GLASS
GR	GRADE
GRNT	GRANITE
GWB	GYPSUM WALLBOARD
H.C.	HOLLOW CORE
HDW	HARDWARE
H.M.	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
I.D.	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
LAM	LAMINATED
LBL	LABEL
LMSTN	LIMESTONE
LT	LIGHT
LVR	LOUVER
MANUF	MANUFACTURE (R)
MAT	MATERIAL
MB	MARKER BOARD
M.C.	MINERAL CORE
MET	METAL
MFR	MANUFACTURE (D)
M.O.	MASONRY OPENING
M.R.	MOISTURE-RESISTANT
MRB	MARBLE
MTD	MOUNTED
NEC	NECESSARY
N.I.C.	NOT IN CONTRACT
N.O.	NUMBER
N.C.	NOISE REDUCTION COEFFICIENT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD, OPPOSITE HAND
OPG.	OPENING
ORIG.	ORIGINAL
P.C.	PARTICAL BOARD
PERIM	PERIMETER
PLAS	PLASTER
PLY'W'D	PLYWOOD
PR	PAIR
PT	POINT
P.T.	PRESSURE-TREATED
PTD	PAINTED
Q.T.	QUARRY TILE
R	RADIUS
RAD	RADIATOR
REBAR	REINFORCING BAR
RECP	RECEPTACLE
REINF	REINFORCED/REINFORCING
REM	REMOVE (D)
REQ'D	REQUIRED
R.O.	ROUGH OPENING
R.W.C.	RAIN WATER CONDUCTOR
SCHED	SCHEDULE
S.C.	SOLID CORE
S.F.	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC.	SPECIFICATIONS
S.T.C.	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
S.S.	STAINLESS STEEL
STR	STRUCTURE (AL)
SUSP	SUSPEND (ED)
TB	TACKBOARD
T.C.S.	TERNE-COATED STAINLESS STEEL
TEMP	TEMPORARY
THK	THICK/THICKNESS
THRES	THRESHOLD
T.O.	TOP OF
TPSL	TOP SOIL
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
UNO	UNLESS OTHERWISE NOTED
V.B.	VAPOR BARRIER
V.C.T.	VINYL COMPOSITION TILE
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
V.W.C	VINYL WALL COVERING
W	WITH
WD	WOOD
WDW	WINDOW
WP	WATERPROOFING
W.R.	WATER RESISTANT
WCST	WAINSCOT
W.W.F.	WELDED WIRE FABRIC

FOURTH FLOOR RENOVATIONS
WEST BUILDING RENOVATIONS

Community College of Philadelphia
1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE: COVER SHEET AND GENERAL NOTES

DATE: MARCH 14, 2013

SCALE: ---

DRAWN BY: AME

CHECKED BY: ASC

PROJECT NUMBER: 911

DRAWING NUMBER: CL-CS-1

PLOTTED: 9/3/2013 7:38 PM BY: ALEX COLL

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		8/15/13 - ISSUE FOR BID	8/16/13 - ISSUE FOR PERMIT	8/26/13 - ADDENDUM No 1	9/03/13 - ADDENDUM No 2
GENERAL					
CL-CS-1	COVER SHEET AND GENERAL NOTES	●	●	●	●
CL-CS-2	DRAWING LIST	●	●	●	●
G-004	FOURTH FLOOR LIFE SAFETY PLAN		●		
ARCHITECTURAL					
CL-AD-004	OVERALL FOURTH FLOOR DEMOLITION PLAN AND PHASE DIAGRAM	●	●		
CL-AD-104.A	FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE A	●	●		●
CL-AD-104.B	FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE B	●	●		●
CL-AD-104.C	FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE C	●	●		●
CL-A-004	OVERALL FOURTH FLOOR PLAN AND PHASE DIAGRAM	●	●		
CL-A-104.A	FOURTH FLOOR PLAN - PHASE A	●	●		●
CL-A-104.B	FOURTH FLOOR PLAN - PHASE B	●	●		●
CL-A-104.C	FOURTH FLOOR PLAN - PHASE C	●	●		●
CL-A-403	THIRD FLOOR REFLECTED CEILING PLAN	●	●		
CL-A-404.A	FOURTH FLOOR REFLECTED CEILING PLAN - PHASE A	●	●		
CL-A-404.B	FOURTH FLOOR REFLECTED CEILING PLAN - PHASE B	●	●		
CL-A-404.C	FOURTH FLOOR REFLECTED CEILING PLAN - PHASE C	●	●		
CL-A-500	INTERIOR ELEVATIONS -CHEM LAB W4-44 & 47	●	●		
CL-A-501	INTERIOR ELEVATIONS -CHEM LAB W4-41	●	●		
CL-A-502	INTERIOR ELEVATIONS -PREP ROOM W4-50	●	●		●
CL-A-503	INTERIOR ELEVATIONS -INSTRUMENT LAB W4-21	●	●		
CL-A-504	INTERIOR ELEVATIONS -ORGANIC LAB W4-22	●	●		●
CL-A-505	INTERIOR ELEVATIONS -MULTI-DISCIPLINARY BIOCHEM LAB W4-27	●	●		●
CL-A-506	INTERIOR ELEVATIONS -PREP ROOM W4-28 & STORAGE W4-29	●	●		●
CL-A-507	INTERIOR ELEVATIONS -ENGINEERING / ENGINEERING TECHNOLOGY W4-37	●	●		●
CL-A-508	INTERIOR ELEVATIONS -RESEARCH LAB W4-38	●	●		●
CL-A-550	TYPICAL CHEM LAB BENCH DETAILS		●		
CL-A-551	ACCESSIBLE CHEM LAB BENCH DETAILS		●		
CL-A-552	TYPICAL INSTRUCTOR BENCH DETAILS		●		
CL-A-553	ORGANIC CHEM & INSTRUMENT LAB BENCH DETAILS		●		
CL-A-554	CASEWORK DETAILS		●		●
CL-A-555	CASEWORK DETAILS		●		
CL-A-556	BIOCHEM LAB BENCH DETAILS		●		●
CL-A-600	DOOR SCHEDULE & MISC. DETAILS		●		●
CL-A-601	PARTITION TYPES		●		
CL-A-610	FINISH SCHEDULE & MISC. DETAILS		●		
CL-A-614.A	FOURTH FLOOR FINISH PLAN - PHASE A		●		
CL-A-614.B	FOURTH FLOOR FINISH PLAN - PHASE B		●		
CL-A-614.C	FOURTH FLOOR FINISH PLAN - PHASE C		●		
CL-A-900	FOURTH FLOOR PARTIAL EQUIPMENT PLAN - PHASE A		●		●
CL-A-901	FOURTH FLOOR PARTIAL EQUIPMENT PLAN - PHASE B		●		●
CL-A-902	FOURTH FLOOR PARTIAL EQUIPMENT PLAN - PHASE B		●		●
CL-A-903	FOURTH FLOOR PARTIAL EQUIPMENT PLAN - PHASE C		●		●
MECHANICAL					
CLH-000	HVAC COVER SHEET		●		
CLH-001	HVAC SPECIFICATION AND GENERAL NOTES		●		
CLH-002	HVAC DETAILS		●		
CLH-003	HVAC CONTROL DIAGRAM		●		
CLH-004	HVAC SCHEDULES	○	●		
		●	●		
CLH-104.A	CHEMICAL LAB RENOVATION PHASE A HVAC PLANS	●	●		
CLDH-104.B	CHEMICAL LAB RENOVATION PHASE B HVAC DEMOLITION PLAN	●	●		
CLH-104.B	CHEMICAL LAB RENOVATION PHASE B HVAC PLANS	●	●		
CLH-204.B	CHEMICAL LAB RENOVATION PHASE B LAB EXHAUST PLANS	●	●		
CLH-104.C	CHEMICAL LAB RENOVATION PHASE C HVAC PLANS	●	●		●

		8/15/13 - ISSUE FOR BID	8/16/13 - ISSUE FOR PERMIT	8/26/13 - ADDENDUM No 1	9/03/13 - ADDENDUM No 2
PLUMBING					
CLP-000	FOURTH FLOOR PLUMBING COVER SHEET	●	●		●
CLP-001	FOURTH FLOOR PLUMBING DETAILS	●	●		
CLP-002	FOURTH FLOOR PLUMBING LAB WASTE RISER DIAGRAM		●		●
CLP-104.A	CHEMICAL LAB RENOVATION PHASE A PLUMBING WATER PLANS	●	●		
CLP-204.A	CHEMICAL LAB RENOVATION PHASE A PLUMBING WASTE PLANS	●	●		
CLDP-104.B	CHEMICAL LAB RENOVATION PHASE B PLUMBING WATER DEMOLITION PLAN	●	●		
CLP-104.P	CHEMICAL LAB RENOVATION PHASE B PLUMBING WATER PLANS	●	●		●
CLDP-204.B	CHEMICAL LAB RENOVATION PHASE B PLUMBING WASTE DEMOLITION PLAN	●	●		
CLP-204.B	CHEMICAL LAB RENOVATION PHASE B PLUMBING WASTE PLANS	●	●		●
CLP-104.C	CHEMICAL LAB RENOVATION PHASE C PLUMBING WATER PLANS	●	●		●
CLP-204.C	CHEMICAL LAB RENOVATION PHASE C PLUMBING WASTE PLANS	●	●		●
FIRE PROTECTION					
FP-104A	CHEMICAL LAB RENOVATION PHASE A SPRINKLER PLAN	●	●		
FP-104B	CHEMICAL LAB RENOVATION PHASE B SPRINKLER PLAN	●	●		
FP-104C	CHEMICAL LAB RENOVATION PHASE C SPRINKLER PLAN	●	●		
ELECTRICAL					
CLE-000	ELECTRICAL COVER SHEET	●	●		
CLE-001	ELECTRICAL SPECIFICATION SHEET	●	●		●
CLE-104.A	CHEMICAL LAB RENOVATION PHASE A ELECTRICAL POWER PLANS	●	●		
CLE-204.A	CHEMICAL LAB RENOVATION PHASE A ELECTRICAL LIGHTING PLANS	●	●	●	
CLDE-104.B	CHEMICAL LAB RENOVATION PHASE B ELECTRICAL DEMOLITION PLAN	●	●		
CLE-104.B	CHEMICAL LAB RENOVATION PHASE B ELECTRICAL POWER PLAN	●	●	●	●
CLE-204.B	CHEMICAL LAB RENOVATION PHASE B ELECTRICAL LIGHTING PLAN	●	●		
CLE-104.C	CHEMICAL LAB RENOVATION PHASE C ELECTRICAL POWER PLANS	●	●	●	●
CLE-204.C	CHEMICAL LAB RENOVATION PHASE C ELECTRICAL LIGHTING PLANS	●	●		
CLE-301	ELECTRICAL SINGLE LINE DIAGRAM	●	●		
CLE-401	ELECTRICAL PANEL SCHEDULES	●	●	●	
CLE-402	ELECTRICAL PANEL SCHEDULES	●	●	●	
END OF DWG LIST					

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REVISIONS

3	9/03/13	ADDENDUM No 2
2	8/26/13	ADDENDUM No 1
1	8/16/13	ISSUE FOR PERMIT
	8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
DRAWING LIST

DATE
MARCH 14,2013

SCALE

DRAWN BY
AME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-CS-2

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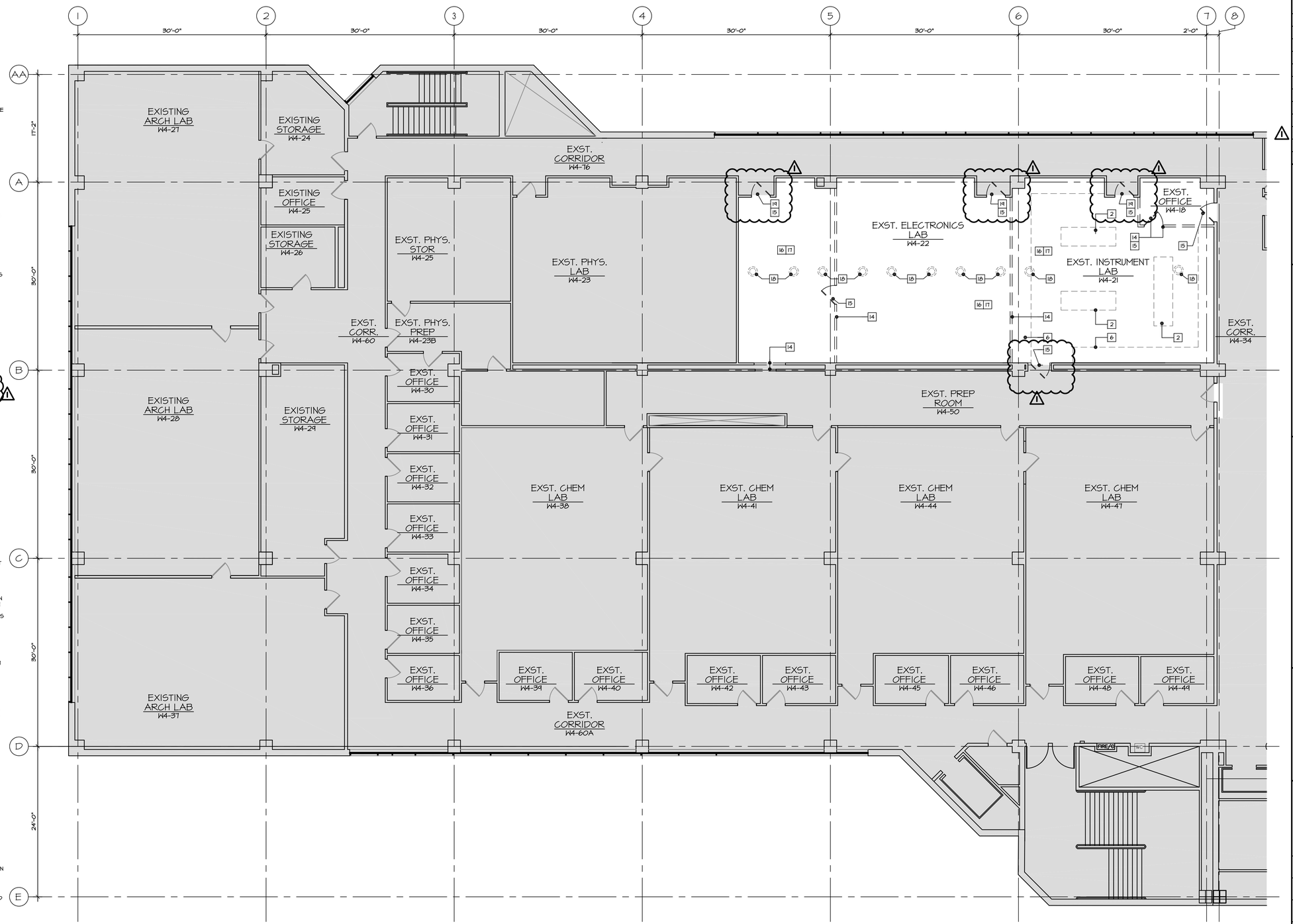
DEMOLITION KEY NOTES

1. DEMOLISH EXISTING HOOD, HOOD BASE CABINETS AND ALL RELATED COMPONENTS. REFER TO MECHANICAL DRAWINGS. PATCH AND REPAIR AREAS DAMAGED BY HOOD REMOVAL.
2. REMOVE EXISTING BASE CABINETS AND STORE FOR IN EXISTING ARCH LAB W4-31 FOR INSTALLATION IN PROPOSED WORK. DEMOLISH EXISTING CABINET COUNTERTOP.
3. DEMOLISH EXISTING END SINK AND ALL RELATED COMPONENTS.
4. DEMOLISH EXISTING PIPED GAS AND AIR LINES AND FIXTURES.
5. NOT USED.
6. REMOVE EXISTING BASE AND OVERHEAD CASEWORK AND STORE SELECT PIECES IN EXISTING ARCH LAB W4-31 TO BE RE-USED IN PROPOSED STORAGE W4-29. COORDINATE PIECES TO BE RE-USED AND /OR DISPOSED OF WITH OWNER AND ARCHITECT. DEMOLISH EXISTING COUNTERTOP. PATCH AND REPAIR AREAS DAMAGED BY DEMOLITION.
7. NOT USED.
8. DEMOLISH EXISTING PERIMETER TABLE.
9. DEMOLISH EXISTING PERIMETER PLUMBING FIXTURES, EQUIPMENT AND LINES. REFER TO PLUMBING DRAWINGS.
10. NOT USED.
11. DEMOLISH EXISTING METAL TEACHER'S DESK, HOOD BASE CABINETS AND COUNTERTOP AND ALL RELATED COMPONENTS. REMOVE EXISTING PLUMBING FIXTURES, TEMPORARILY CAP LINES AND PREPARE FOR REUSE. REFER TO PLUMBING DRAWINGS.
12. DEMOLISH EXISTING EMERGENCY EYEWASH STATION. REFER TO PLUMBING DRAWINGS.
13. DEMOLISH EXISTING EMERGENCY SHOWER STATION. REFER TO PLUMBING DRAWINGS.
14. DEMOLISH EXISTING PARTITION AND ALL RELATED ITEMS TO EXTENT SHOWN ON DRAWING. PATCH AND REPAIR ALL SURFACES DAMAGED BY REMOVAL OF PARTITION.
15. DEMOLISH EXISTING DOOR, DOOR FRAME AND RELATED HARDWARE.
16. DEMOLISH EXISTING FLOORING TO EXISTING CONCRETE SLAB. SCRAPE AND CLEAN ANY GLUE AND DEBRIS FROM FLOOR AND PREPARE TO RECEIVE FLOOR FINISH.
17. DEMOLISH EXISTING CEILING AND ALL RELATED COMPONENTS. PREPARE FOR INSTALLATION OF ACOUSTIC CEILING PANELS.
18. PROPOSED OPENING IN ROOF DECK ABOVE. COORD. WITH MECHANICAL DRAWINGS.
19. ALTERNATE GT-1: DEMOLISH DOOR AND PARTITION AS REQ'D.
20. ALTERNATE GT-3/HVAC-2/EC-3/PFPC-1: EXISTING HOODS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES AND ELECTRICAL AND PLUMBING SERVICE AND FIXTURE TO REMAIN. 1

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE LOCAL AND STATE GOVERNING AUTHORITIES.
3. WORK PERFORMED IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST OSHA SAFETY AND HEALTH STANDARDS.
4. THIS DRAWING INDICATES THE GENERAL EXISTING PARTITION LAYOUT. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WITHIN THE DEMOLITION AREA AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/DESIGNER FOR CLARIFICATION BEFORE PROCEEDING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND All DAMAGES RELATED TO THE ADJACENT AREAS WHICH ARE THE RESULT OF THE DEMOLITION PROCESS. IF DURING DEMOLITION ANY EXISTING CONSTRUCTION/FINISHES ARE DAMAGED THE CONTRACTOR IS RESPONSIBLE TO REPAIR AT NO COST TO THE OWNER.
6. WHERE IT BECOMES NECESSARY TO TEMPORARILY DISTURB SYSTEMS TO PERMIT EXECUTION OF THE DEMOLITION PROCESS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE OWNER AND CONSTRUCTION MANAGER TO SCHEDULE A SHUTDOWN. THE CONTRACTOR SHALL GIVE A MINIMUM OF FIVE DAYS ADVANCED NOTICE FOR ANY SHUTDOWN.
7. THE CONTRACTOR SHALL COORDINATE WITH THE ALL DEMOLITION DRAWINGS FOR ITEMS TO REMAIN IN EXISTING PARTITIONS TO BE REMOVED. WHERE REQUIRED, CONTRACTOR WILL PROVIDE TEMPORARY SUPPORT OR REROUTING UNTIL NEW CONSTRUCTION IS IN PLACE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL REMOVED ITEMS IN A SAFE AND ENVIRONMENTALLY ACCEPTABLE MANNER COMPLYING WITH FEDERAL, STATE AND LOCAL GUIDELINES FOR DISPOSING OF MATERIALS.
9. COORDINATE DEMOLITION THAT IS WITHIN 7 FEET OF FIRE ALARM PULL STATIONS WITH THE FIRE MARSHALL.
10. PATCH WALLS WITHIN THE LIMIT OF WORK AS REQUIRED TO RECEIVE FINISHES.
11. EXISTING CONSTRUCTION TO REMAIN SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER, INCLUDING THE MAINTENANCE OF ALL FIRE RATINGS AT STRUCTURAL MEMBERS; SURFACES OF FLOORS, WALLS, CEILINGS, ETC.
12. EXISTING FINISHES TO BE REMOVED ARE SHOWN FOR CONTRACTOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND QUANTITIES OF FINISHES TO BE REMOVED PRIOR TO SUBMISSION OF COST PROPOSAL.
13. ANY ITEM NOT SPECIFICALLY IDENTIFIED BUT REQUIRED TO BE REMOVED OR REPAIRED TO PREPARE THE BUILDING FOR WORK, OR TO OTHERWISE PRODUCE THE FINISHED PRODUCT SHOWN IN THE CONTRACT DOCUMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
14. CONTRACTOR TO VERIFY WITH OWNER ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. THE OWNER RETAINS FIRST RIGHT OF REFUSAL FOR ANYTHING BEING DEMOLISHED.
15. CUTS AND PENETRATIONS INTO EXISTING WORK SHALL BE KEPT TO A MINIMUM AND COMPLETED WITHOUT DISTURBING ADJACENT WORK TO REMAIN.
16. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FULL EXTENT OF DEMOLITION REQUIRED.
17. FIELD VERIFY THAT EXISTING FIRE RATED PARTITIONS TO REMAIN MEET THE MINIMUM STANDARDS. REFER TO LIFE SAFETY PLAN FOR LOCATIONS. NOTIFY THE OWNER OF ANY QUESTIONABLE CONDITIONS.
18. CONTRACTOR SHALL PATCH EXISTING GYPSUM WALL BOARD AND ALL SPRAY APPLIED FIREPROOFING DAMAGED DURING DEMOLITION OPERATIONS.
19. FILL VOIDS IN EXISTING CONCRETE FLOOR WITH CONCRETE FILL.



1 CL-AD-104.A
FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE A
1/8" = 1'-0"

1' 4' 20'
0 2' 10'

PROJECT NORTH

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
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SEALS

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DRAWING TITLE
FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE A

DATE MARCH 14, 2013
SCALE AS NOTED
DRAWN BY AME
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-AD-104.A

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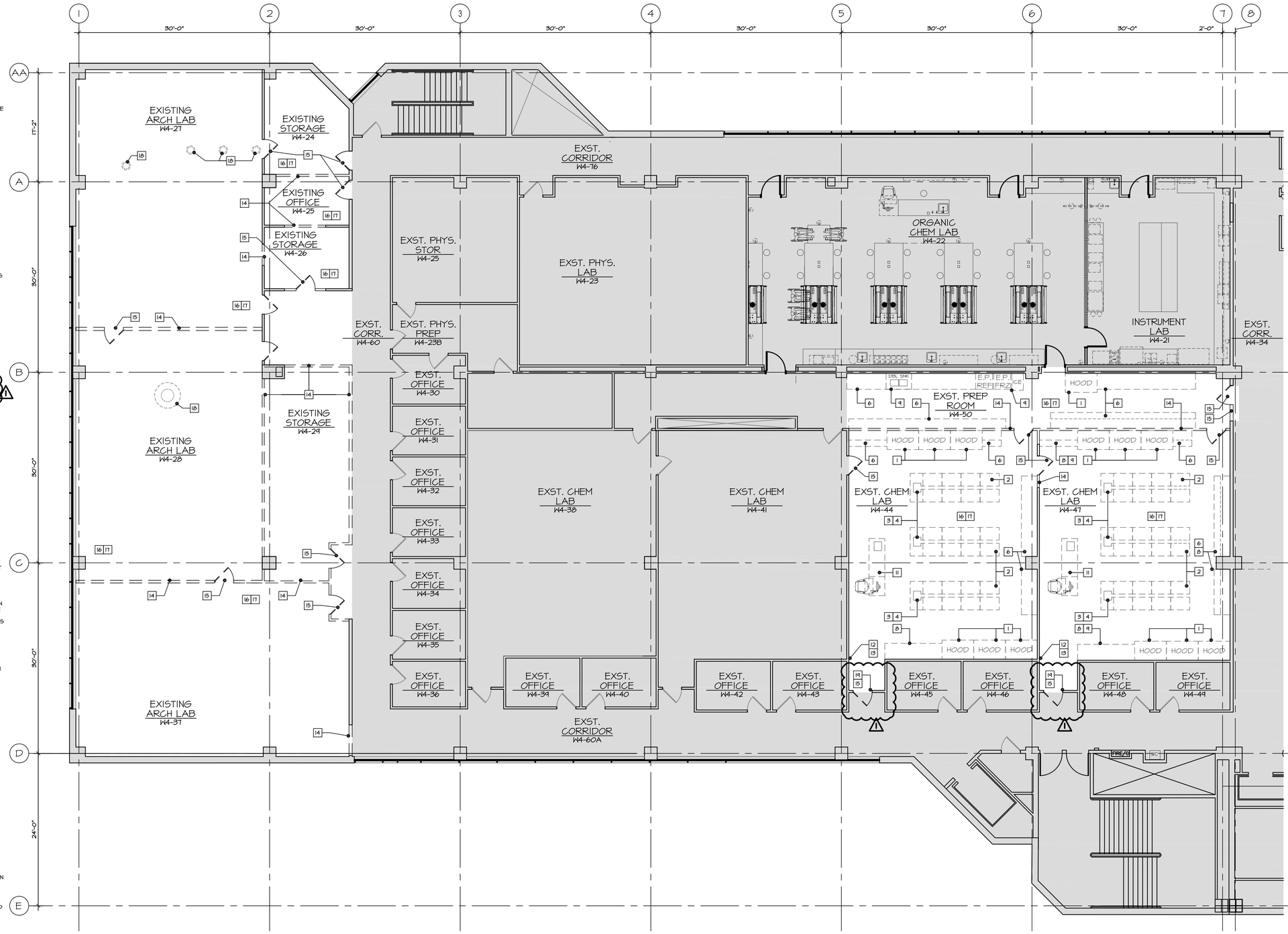
DEMOLITION KEY NOTES

1. DEMOLISH EXISTING HOOD, HOOD BASE CABINETS AND ALL RELATED COMPONENTS. REFER TO MECHANICAL DRAWINGS. PATCH AND REPAIR AREAS DAMAGED BY HOOD REMOVAL.
2. REMOVE EXISTING BASE CABINETS AND STORE FOR IN EXISTING ARCH LAB W4-31 FOR INSTALLATION IN PROPOSED WORK. DEMOLISH EXISTING CABINET COUNTERTOP.
3. DEMOLISH EXISTING END SINK AND ALL RELATED COMPONENTS.
4. DEMOLISH EXISTING PIPED GAS AND AIR LINES AND FIXTURES.
5. NOT USED.
6. REMOVE EXISTING BASE AND OVERHEAD CASEWORK AND STORE SELECT PIECES IN EXISTING ARCH LAB W4-31 TO BE RE-USED IN PROPOSED STORAGE W4-24. COORDINATE PIECES TO BE RE-USED AND /OR DISPOSED OF WITH OWNER AND ARCHITECT. DEMOLISH EXISTING COUNTERTOP. PATCH AND REPAIR AREAS DAMAGED BY DEMOLITION.
7. NOT USED.
8. DEMOLISH EXISTING PERIMETER TABLE.
9. DEMOLISH EXISTING PERIMETER PLUMBING FIXTURES, EQUIPMENT AND LINES. REFER TO PLUMBING DRAWINGS.
10. NOT USED.
11. DEMOLISH EXISTING METAL TEACHER'S DESK, HOOD BASE CABINETS AND COUNTERTOP AND ALL RELATED COMPONENTS. REMOVE EXISTING PLUMBING FIXTURES, TEMPORARILY CAP LINES AND PREPARE FOR REUSE. REFER TO PLUMBING DRAWINGS.
12. DEMOLISH EXISTING EMERGENCY EYEWASH STATION. REFER TO PLUMBING DRAWINGS.
13. DEMOLISH EXISTING EMERGENCY SHOWER STATION. REFER TO PLUMBING DRAWINGS.
14. DEMOLISH EXISTING PARTITION AND ALL RELATED ITEMS TO EXTENT SHOWN ON DRAWING. PATCH AND REPAIR ALL SURFACES DAMAGED BY REMOVAL OF PARTITION.
15. DEMOLISH EXISTING DOOR, DOOR FRAME AND RELATED HARDWARE.
16. DEMOLISH EXISTING FLOORING TO EXISTING CONCRETE SLAB. SCRAPE AND CLEAN ANY GLUE AND DEBRIS FROM FLOOR AND PREPARE TO RECEIVE FLOOR FINISH.
17. DEMOLISH EXISTING CEILING AND ALL RELATED COMPONENTS. PREPARE FOR INSTALLATION OF ACOUSTIC CEILING PANELS.
18. PROPOSED OPENING IN ROOF DECK ABOVE. COORD. WITH MECHANICAL DRAWINGS.
19. ALTERNATE GT-1; DEMOLISH DOOR AND PARTITION AS REQ'D.
20. ALTERNATE GT-3/HVAC-2/EC-3/FFPC-1; EXISTING HOODS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES AND ELECTRICAL AND PLUMBING SERVICE AND FIXTURE TO REMAIN. 1

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE LOCAL AND STATE GOVERNING AUTHORITIES.
3. WORK PERFORMED IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST OSHA SAFETY AND HEALTH STANDARDS.
4. THIS DRAWING INDICATES THE GENERAL EXISTING PARTITION LAYOUT. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WITHIN THE DEMOLITION AREA AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/DESIGNER FOR CLARIFICATION BEFORE PROCEEDING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND All DAMAGES RELATED TO THE ADJACENT AREAS WHICH ARE THE RESULT OF THE DEMOLITION PROCESS. IF DURING DEMOLITION ANY EXISTING CONSTRUCTION/FINISHES ARE DAMAGED THE CONTRACTOR IS RESPONSIBLE TO REPAIR AT NO COST TO THE OWNER.
6. WHERE IT BECOMES NECESSARY TO TEMPORARILY DISTURB SYSTEMS TO PERMIT EXECUTION OF THE DEMOLITION PROCESS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE OWNER AND CONSTRUCTION MANAGER TO SCHEDULE A SHUTDOWN. THE CONTRACTOR SHALL GIVE A MINIMUM OF FIVE DAYS ADVANCED NOTICE FOR ANY SHUTDOWN.
7. THE CONTRACTOR SHALL COORDINATE WITH THE ALL DEMOLITION DRAWINGS FOR ITEMS TO REMAIN IN EXISTING PARTITIONS TO BE REMOVED. WHERE REQUIRED, CONTRACTOR WILL PROVIDE TEMPORARY SUPPORT OR REROUTING UNTIL NEW CONSTRUCTION IS IN PLACE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL REMOVED ITEMS IN A SAFE AND ENVIRONMENTALLY ACCEPTABLE MANNER COMPLYING WITH FEDERAL, STATE AND LOCAL GUIDELINES FOR DISPOSING OF MATERIALS.
9. COORDINATE DEMOLITION THAT IS WITHIN 7 FEET OF FIRE ALARM PULL STATIONS WITH THE FIRE MARSHALL.
10. PATCH WALLS WITHIN THE LIMIT OF WORK AS REQUIRED TO RECEIVE FINISHES.
11. EXISTING CONSTRUCTION TO REMAIN SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER, INCLUDING THE MAINTENANCE OF ALL FIRE RATINGS AT STRUCTURAL MEMBERS, SURFACES OF FLOORS, WALLS, CEILINGS, ETC.
12. EXISTING FINISHES TO BE REMOVED ARE SHOWN FOR CONTRACTOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND QUANTITIES OF FINISHES TO BE REMOVED PRIOR TO SUBMISSION OF COST PROPOSAL.
13. ANY ITEM NOT SPECIFICALLY IDENTIFIED BUT REQUIRED TO BE REMOVED OR REPAIRED TO PREPARE THE BUILDING FOR WORK, OR TO OTHERWISE PRODUCE THE FINISHED PRODUCT SHOWN IN THE CONTRACT DOCUMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
14. CONTRACTOR TO VERIFY WITH OWNER ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. THE OWNER RETAINS FIRST RIGHT OF REFUSAL FOR ANYTHING BEING DEMOLISHED.
15. CUTS AND PENETRATIONS INTO EXISTING WORK SHALL BE KEPT TO A MINIMUM AND COMPLETED WITHOUT DISTURBING ADJACENT WORK TO REMAIN.
16. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FULL EXTENT OF DEMOLITION REQUIRED.
17. FIELD VERIFY THAT EXISTING FIRE RATED PARTITIONS TO REMAIN MEET THE MINIMUM STANDARDS. REFER TO LIFE SAFETY PLAN FOR LOCATIONS. NOTIFY THE OWNER OF ANY QUESTIONABLE CONDITIONS.
18. CONTRACTOR SHALL PATCH EXISTING GYPSUM WALL BOARD AND ALL SPRAY APPLIED FIREPROOFING DAMAGED DURING DEMOLITION OPERATIONS.
19. FILL VOIDS IN EXISTING CONCRETE FLOOR WITH CONCRETE FILL.



1 GL-AD-104.B
FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE B
1/8" = 1'-0"

1' 4' 20'
0 2' 10'

PROJECT NORTH

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE B

DATE
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SCALE
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DRAWN BY
AME

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5. NOT USED.
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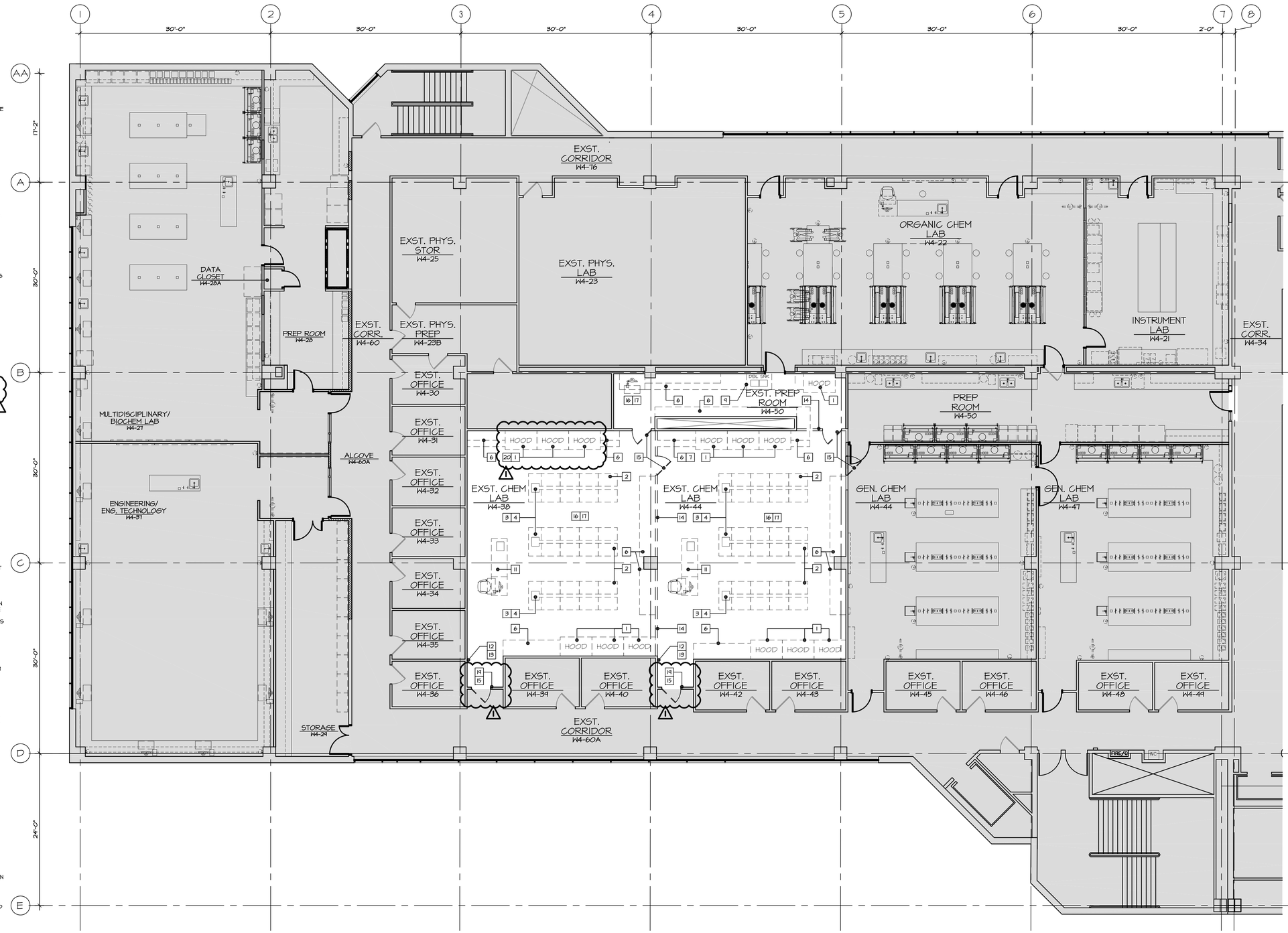

1 SELECTIVE DEMOLITION PLAN - PHASE C
CL-AD-104.C
1/8" = 1'-0"

1' 4' 20'
0 2' 10'

PROJECT NORTH

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE C

DATE JULY 19, 2013

SCALE AS NOTED

DRAWN BY AME

CHECKED BY ASC

PROJECT NUMBER 911

DRAWING NUMBER CL-AD-104.C

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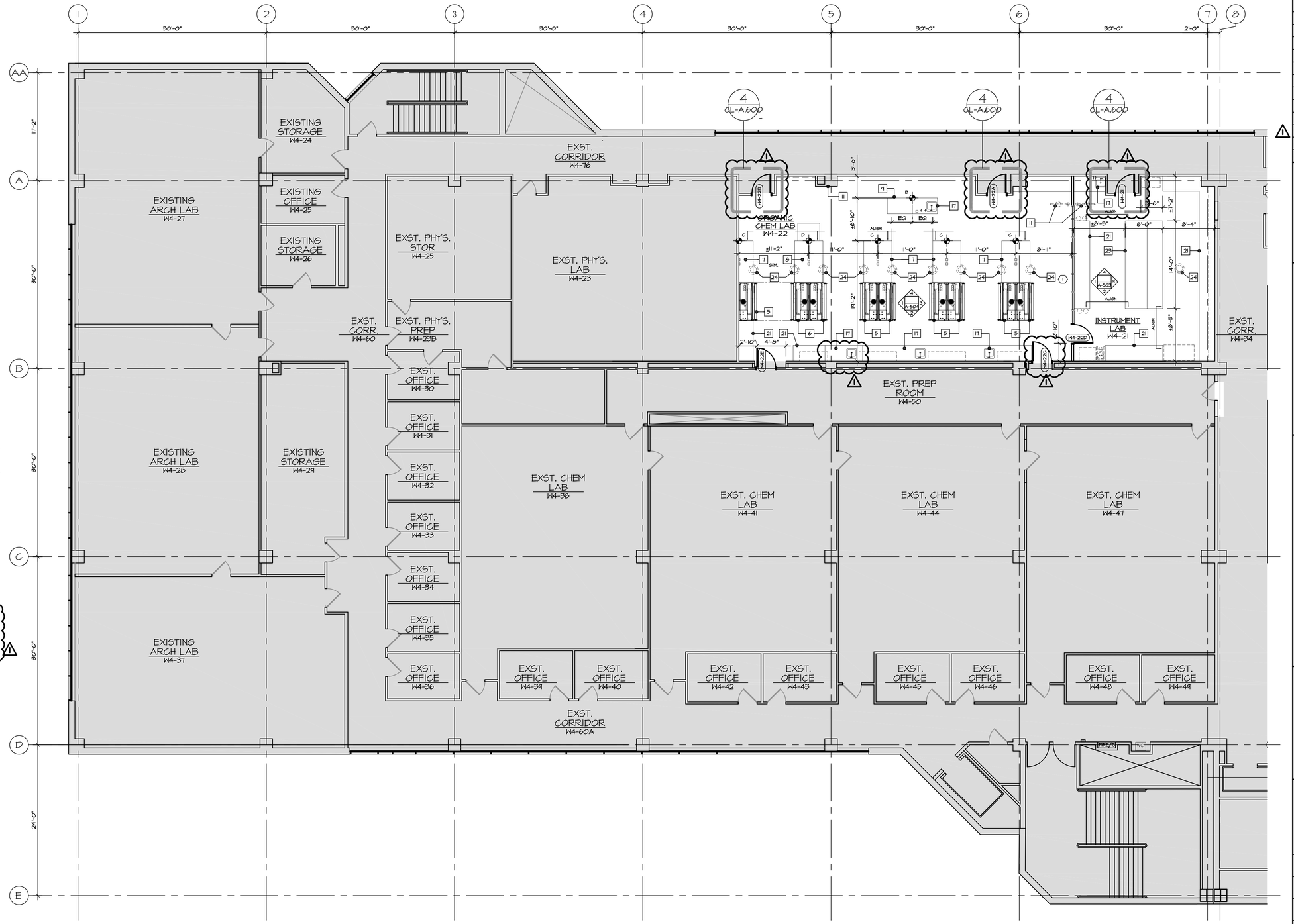
KEY NOTES

1. HOOD H001; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
2. HOOD H002; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
3. WOOD LAB CASEWORK GEN. CHEM. BENCH; REFER TO DRAWING 1/CL-A-550 & COORD. W/ ALL TRADES.
4. WOOD LAB CASEWORK GEN. CHEM. ADA BENCH; REFER TO DRAWING 1/CL-A-551 & COORD. W/ ALL TRADES.
5. HOOD H003; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
6. HOOD H004; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
7. WOOD LAB CASEWORK ORG. CHEM. BENCH; REFER TO DRAWING 1/CL-A-553 & COORD. W/ ALL TRADES.
8. WOOD LAB CASEWORK ORG. CHEM. ADA BENCH; REFER TO DRAWING 2/CL-A-553 & COORD. W/ ALL TRADES.
9. WOOD LAB CASEWORK/BENCH TYPICAL INSTRUCTOR; REFER TO DRAWING 1/CL-A-552 & COORD. W/ ALL TRADES.
10. NOT USED.
11. EMERGENCY EYE WASH AND SHOWER; REFER TO PLUMBING DRAWINGS.
12. TEMPORARY; PARTITION TYPE C04.
13. WOOD LAB CASEWORK BIOCHEM. BENCH; REFER TO DRAWING 1/CL-A-556 & COORD. W/ ALL TRADES.
14. WOOD LAB CASEWORK BIOCHEM. ADA BENCH; REFER TO DRAWING 2/CL-A-556 & COORD. W/ ALL TRADES.
15. HOOD H007; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
16. HOOD H008; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
17. UTILITY SINK (SINGLE BASIN), REFER TO PLUMBING DRAWINGS; COORD. W/ CASEWORK.
18. UTILITY SINK (DOUBLE BASIN); REFER TO PLUMBING DRAWINGS; COORD. W/ CASEWORK.
19. NOT USED.
20. NOT USED.
21. WOOD LAB CASEWORK; TYP.
22. EXISTING WOOD LAB CASEWORK TO BE RE-USED. COORD. WITH OWNER AND ARCHITECT.
23. REFER TO 5/CL-A-552.
24. PROPOSED OPENING IN ROOF DECK ABOVE. COORD. WITH MECHANICAL DRAWINGS AND 3/CL-A.610. ±'-6" X ±'-6" UNO.
25. ALTERNATE GT-3/HVAC-2/EC-3/PFPC-1; EXISTING HOODS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES AND ELECTRICAL AND PLUMBING SERVICE AND FIXTURES TO REMAIN IN LIEU OF PROPOSED HOODS AND ASSOCIATED WORK. 1

GENERAL NOTES:

1. ALL PARTITION TYPES TO BE C04, UNLESS OTHERWISE NOTED; REFER TO DRAWING CL-A-601 FOR DETAILS.
2. PROVIDE SHEET METAL BACKING IN ALL PARTITIONS TO RECEIVE WALL MOUNTED CASEWORK OR EQUIPMENT; COORD. W/ EQUIPMENT PLANS.
3. PROVIDE DRIP CUPS AT LOCATIONS INDICATED ON PLUMBING DRAWINGS. COORDINATE WITH CASEWORK AND EQUIPMENT LOCATIONS.
4. CONFIRM INTEGRITY OF ALL EXISTING EXPANSION JOINT COVERS AND REFURBISH IN PLACE.
5. COORDINATE WITH OWNER LOCATION OF MISC. WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CLOCKS, CHALKBOARDS, TACK-BOARDS AND ELEMENTAL CHARTS.
6. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT THE EXTENT OF EXISTING CASEWORK THAT CAN BE RE-USED IN PROPOSED STORAGE W4-29.
7. REMOVAL, ON-SITE STORAGE, AND INSTALLATION OF EXISTING BASE CABINETS, PURSUANT TO DEMO KEY NOTE "2", SHALL BE WORK DONE UNDER BASE CONTRACT. ALTERNATE GT-2 SHALL BE THE REFURBISHMENT OF SAID BASE CABINETS PURSUANT TO SPEC SECTION 06411.
8. REFER TO EQUIPMENT PLANS FOR ALL EQUIPMENT.
9. LAMINATE GWB TO EXISTING CONCRETE COLUMNS, WHERE EXPOSED, TO ACHIEVE MONOLITHIC APPEARANCE.



1 CL-A-104.A FOURTH FLOOR PLAN - PHASE A
1/8" = 1'-0"

1' 4' 20' 0 2' 10'

PROJECT NORTH

REVISIONS

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SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

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3. WOOD LAB CASEWORK GEN. CHEM. BENCH; REFER TO DRAWING 1/CL-A-550 & COORD. W/ ALL TRADES.
4. WOOD LAB CASEWORK GEN. CHEM. ADA BENCH; REFER TO DRAWING 1/CL-A-551 & COORD. W/ ALL TRADES.
5. HOOD H003; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
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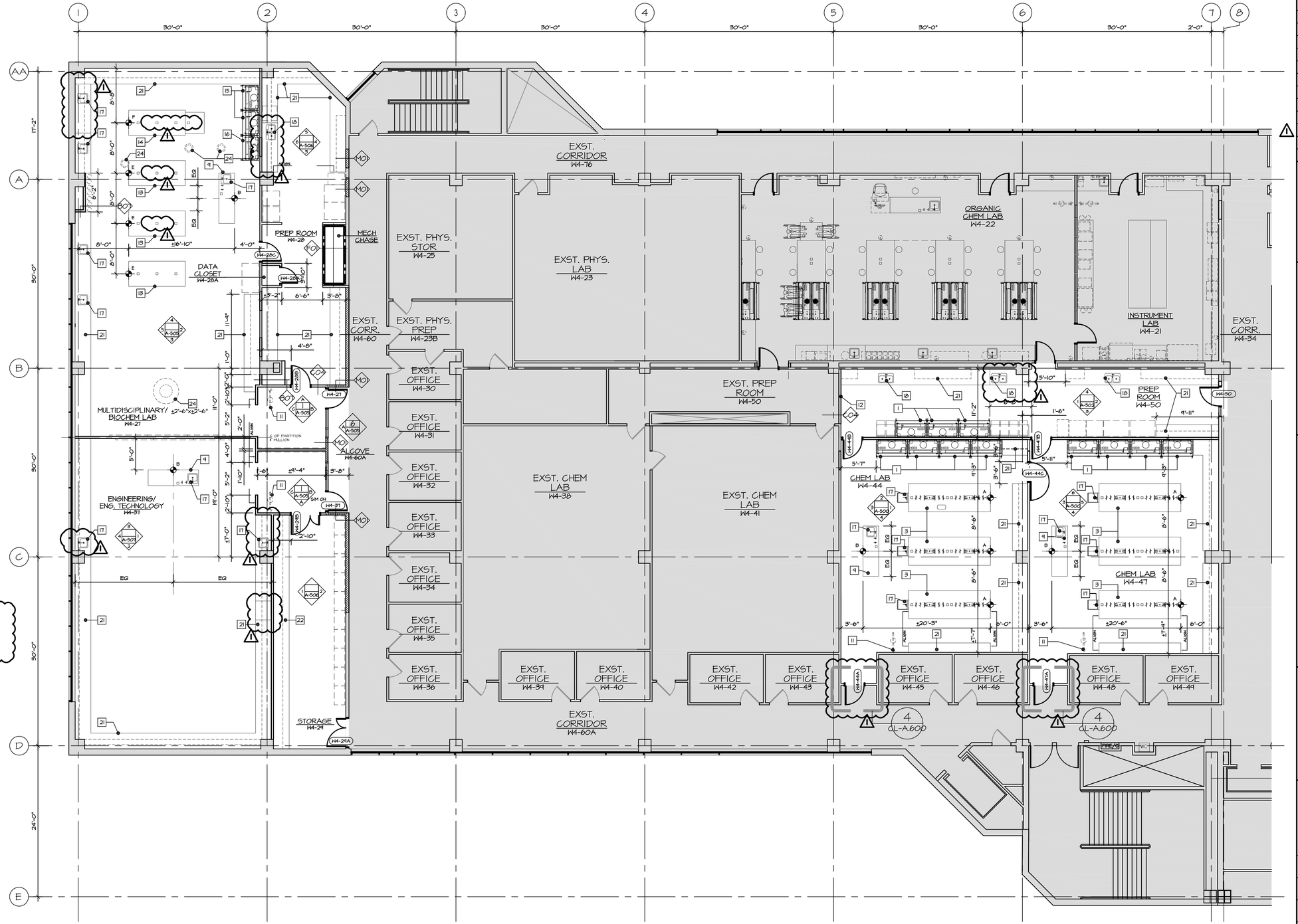

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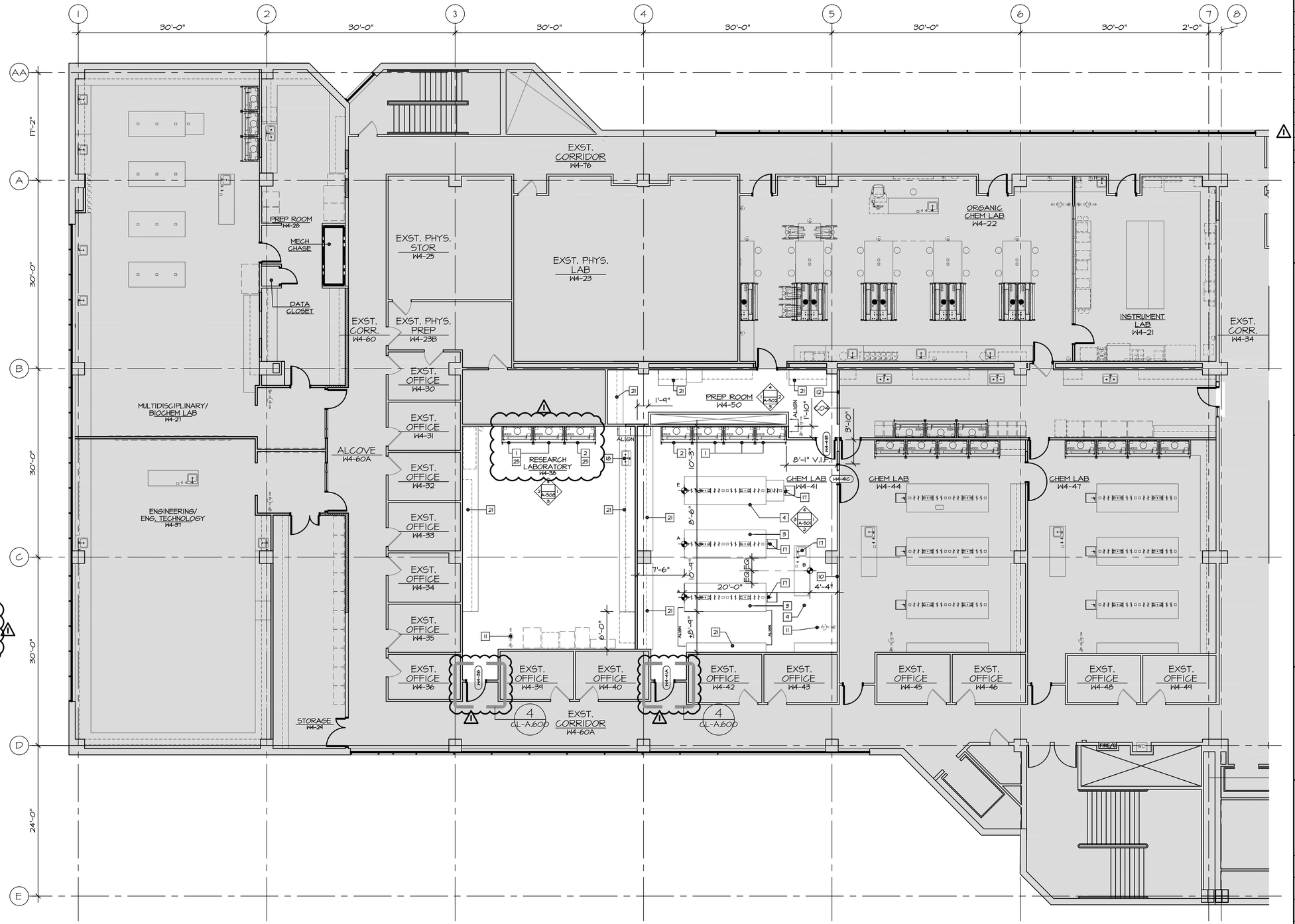
7. WOOD LAB CASEWORK ORG. CHEM. BENCH; REFER TO DRAWING 1/CL-A-553 & COORD. W/ ALL TRADES.
8. WOOD LAB CASEWORK ORG. CHEM. ADA BENCH; REFER TO DRAWING 2/CL-A-553 & COORD. W/ ALL TRADES.
9. WOOD LAB CASEWORK/BENCH TYPICAL INSTRUCTOR; REFER TO DRAWING 1/CL-A-552 & COORD. W/ ALL TRADES.
10. NOT USED.
11. EMERGENCY EYE WASH AND SHOWER; REFER TO PLUMBING DRAWINGS.
12. TEMPORARY; PARTITION TYPE C04.
13. WOOD LAB CASEWORK BIOCHEM. BENCH; REFER TO DRAWING 1/CL-A-556 & COORD. W/ ALL TRADES.
14. WOOD LAB CASEWORK BIOCHEM. ADA BENCH; REFER TO DRAWING 2/CL-A-556 & COORD. W/ ALL TRADES.
15. HOOD H007; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
16. HOOD H008; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
17. UTILITY SINK (SINGLE BASIN), REFER TO PLUMBING DRAWINGS; COORD. W/ CASEWORK.
18. UTILITY SINK (DOUBLE BASIN); REFER TO PLUMBING DRAWINGS; COORD. W/ CASEWORK.
19. NOT USED.
20. NOT USED.
21. WOOD LAB CASEWORK; TYP.
22. EXISTING WOOD LAB CASEWORK TO BE RE-USED. COORD. WITH OWNER AND ARCHITECT.
23. REFER TO 5/CL-A-552.
24. PROPOSED OPENING IN ROOF DECK ABOVE. COORD. WITH MECHANICAL DRAWINGS AND 3/CL-A.610. ±1'-6" X ±1'-6" UNO.
25. ALTERNATE GT-3/HVAC-2/EC-3/PFPC-1; EXISTING HOODS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES AND ELECTRICAL AND PLUMBING SERVICE AND FIXTURES TO REMAIN IN LIEU OF PROPOSED HOODS AND ASSOCIATED WORK.

GENERAL NOTES:

1. ALL PARTITION TYPES TO BE C04, UNLESS OTHERWISE NOTED; REFER TO DRAWING CL-A-601 FOR DETAILS.
2. PROVIDE SHEET METAL BACKING IN ALL PARTITIONS TO RECEIVE WALL MOUNTED CASEWORK OR EQUIPMENT; COORD. W EQUIPMENT PLANS.
3. PROVIDE DRIP CUPS AT LOCATIONS INDICATED ON PLUMBING DRAWINGS. COORDINATE WITH CASEWORK AND EQUIPMENT LOCATIONS.
4. CONFIRM INTEGRITY OF ALL EXISTING EXPANSION JOINT COVERS AND REFURBISH IN PLACE.
5. COORDINATE WITH OWNER LOCATION OF MISC. WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CLOCKS, CHALKBOARDS, TACK-BOARDS AND ELEMENTAL CHARTS.
6. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT THE EXTENT OF EXISTING CASEWORK THAT CAN BE RE-USED IN PROPOSED STORAGE W4-29.
7. REMOVAL, ON-SITE STORAGE, AND INSTALLATION OF EXISTING BASE CABINETS, PURSUANT TO DEMO KEY NOTE "2", SHALL BE WORK DONE UNDER BASE CONTRACT. ALTERNATE GT-2 SHALL BE THE REFURBISHMENT OF SAID BASE CABINETS PURSUANT TO SPEC SECTION 06411.
8. REFER TO EQUIPMENT PLANS FOR ALL EQUIPMENT.
9. LAMINATE GWB TO EXISTING CONCRETE COLUMNS, WHERE EXPOSED, TO ACHIEVE MONOLITHIC APPEARANCE.



1 CL-A-104.C FOURTH FLOOR PLAN - PHASE C
1/8" = 1'-0"

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
FOURTH FLOOR PLAN - PHASE C

DATE JULY 19, 2013
SCALE AS NOTED
DRAWN BY AME
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-104.C

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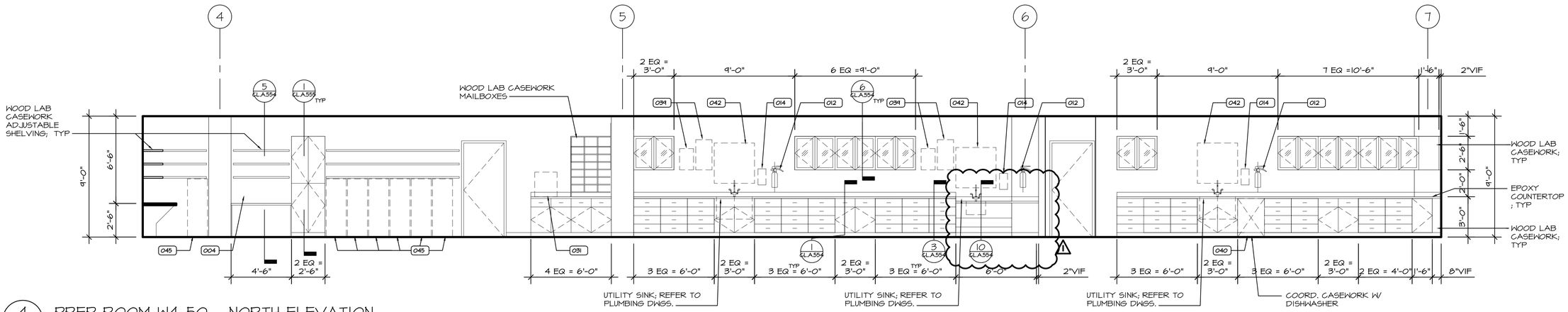
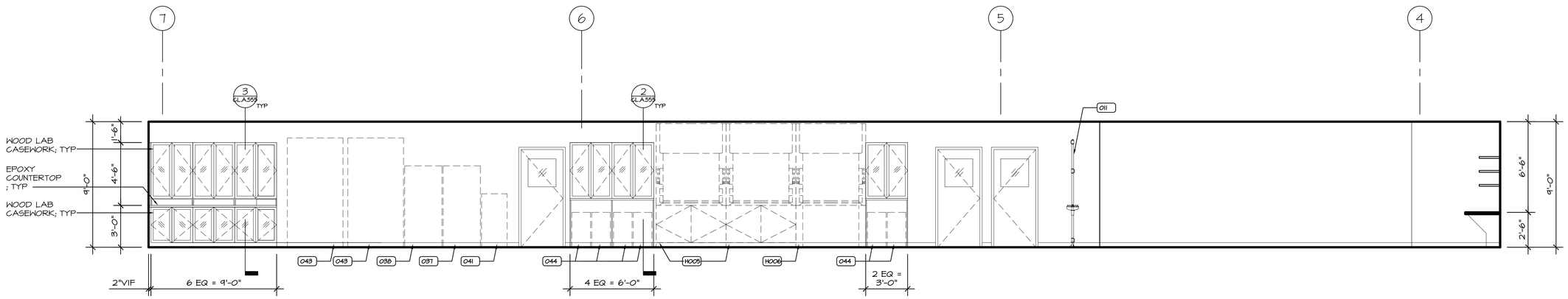


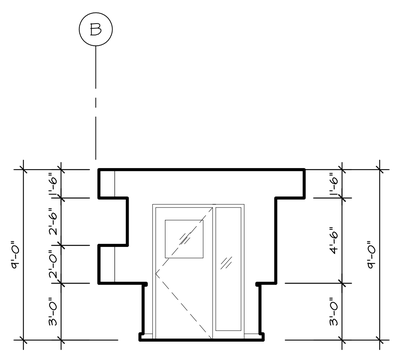
4 PREP ROOM W4-50 - NORTH ELEVATION
CL-A.502 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



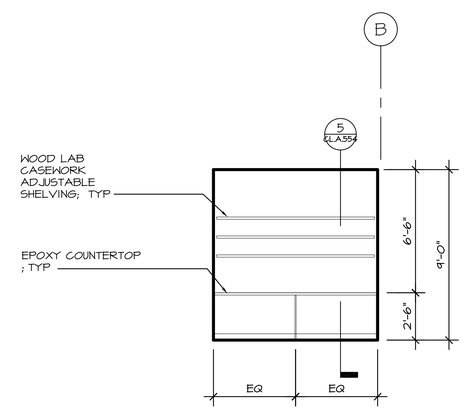
3 PREP ROOM W4-50 - SOUTH ELEVATION
CL-A.502 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 PREP ROOM W4-50 - EAST ELEVATION
CL-A.502 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



1 PREP ROOM W4-50 - WEST ELEVATION
CL-A.502 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
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UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
INTERIOR ELEVATIONS PREP ROOM W4-50

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
AME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-502

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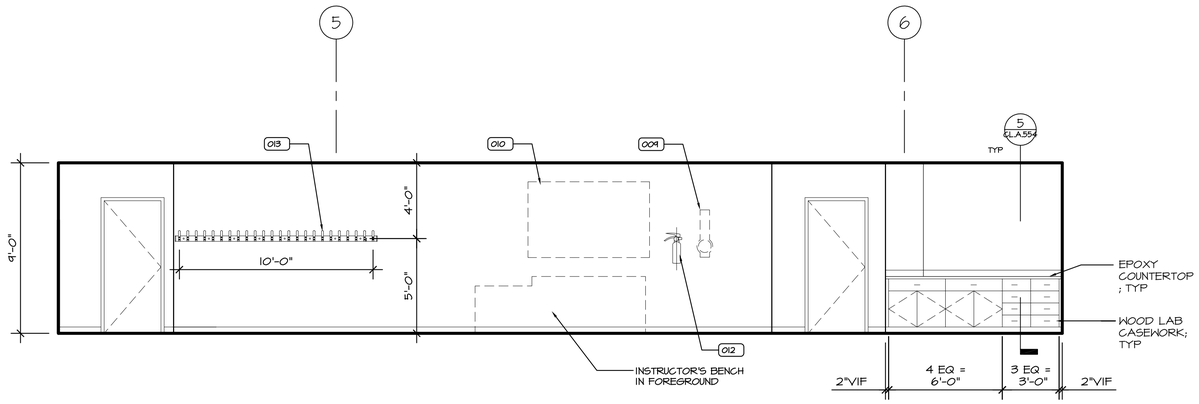
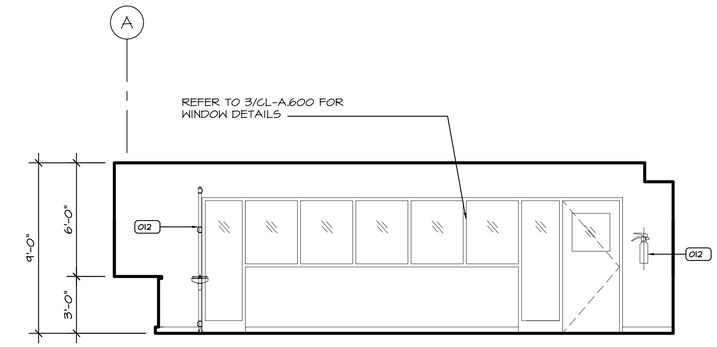


4 CL-A.504 ORGANIC CHEM LAB W4-22 - NORTH ELEVATION

1/4" = 1'-0"

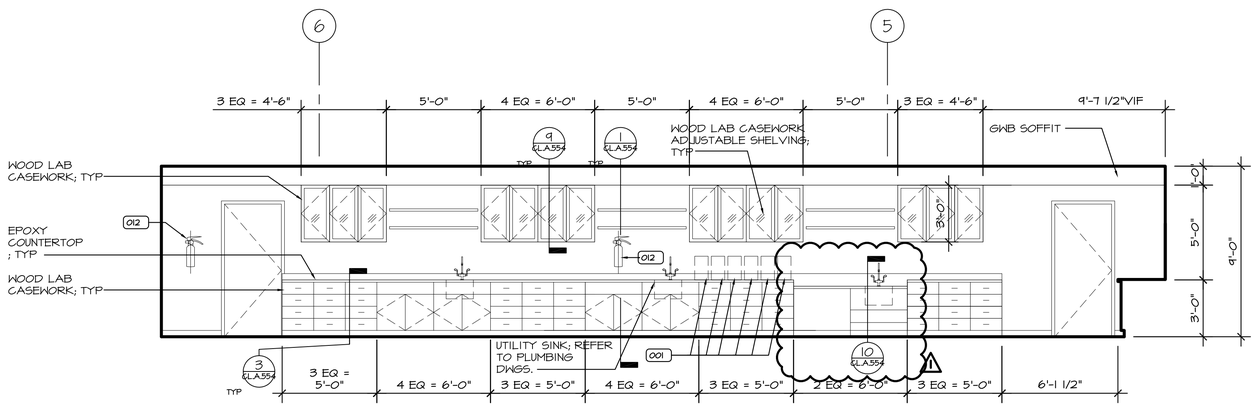
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 CL-A.504 ORGANIC CHEM LAB W4-22 - WEST ELEVATION

1/4" = 1'-0"

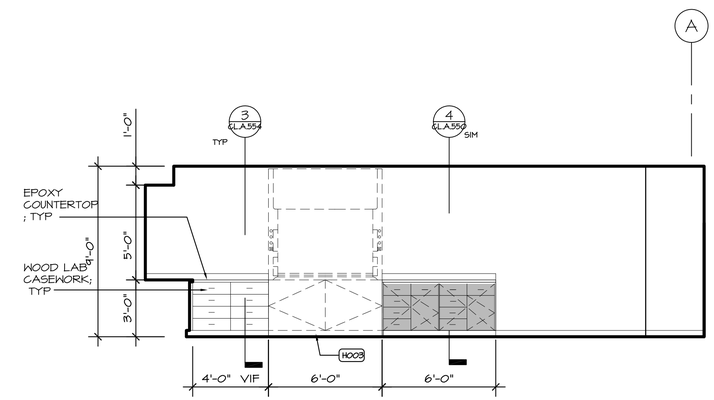
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 CL-A.504 ORGANIC CHEM LAB W4-22 - SOUTH ELEVATION

1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



1 CL-A.504 ORGANIC CHEM LAB W4-22 - EAST ELEVATION

1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.

REVISIONS

1	9/03/13 ADDENDUM No 2
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	8/15/13 ISSUE FOR BID

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1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
INTERIOR ELEVATIONS ORGANIC LAB W4-22

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
AME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-504

PLOTTED: 9/3/2013 7:39 PM BY: ALEX COLL

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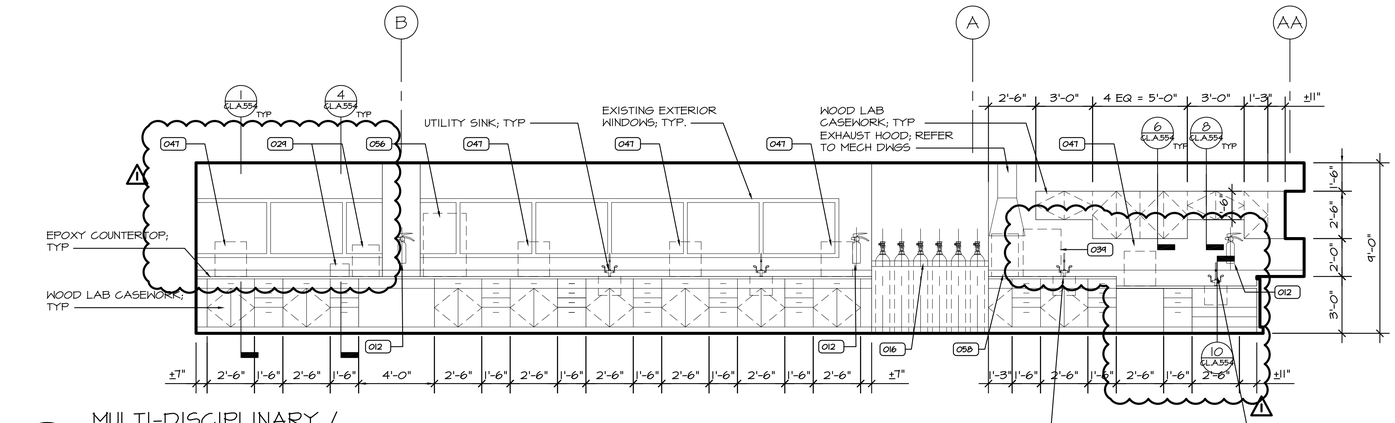
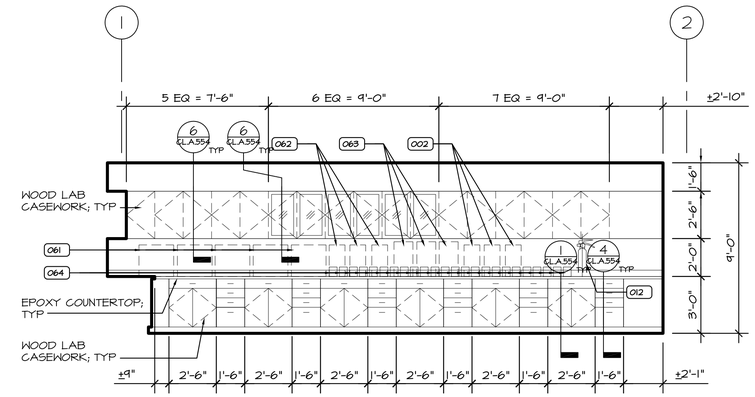


5 CL-A.505 MULTI-DISCIPLINARY / BIOCHEM LAB W4-27 - WEST ELEVATION

1/4" = 1'-0"

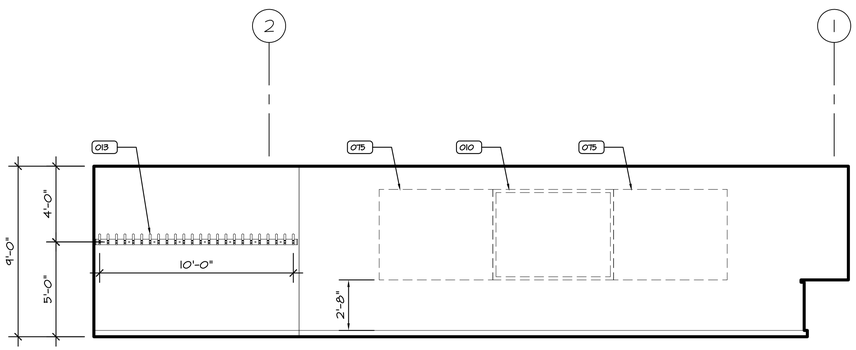
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



4 CL-A.505 MULTI-DISCIPLINARY / BIOCHEM LAB W4-27 - NORTH ELEVATION

1/4" = 1'-0"

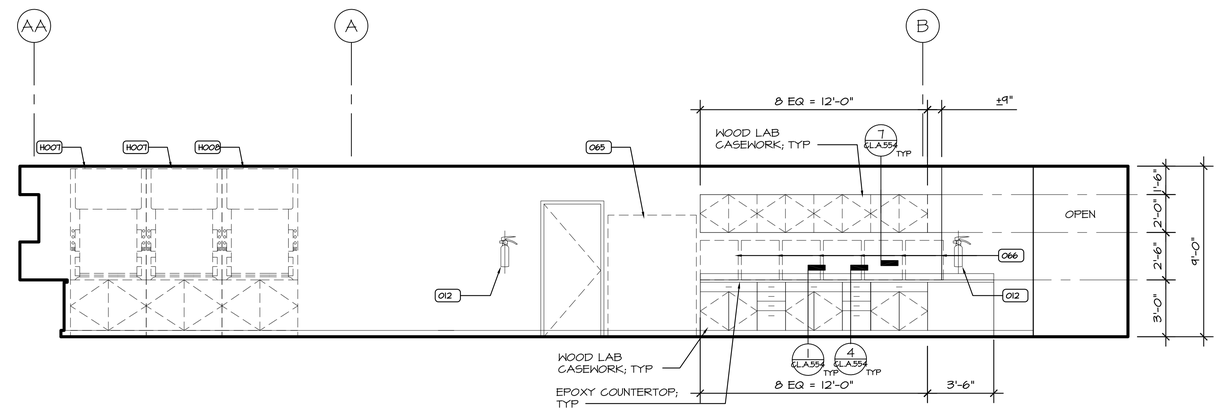
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 CL-A.505 MULTI-DISCIPLINARY / BIOCHEM LAB W4-27 - SOUTH ELEVATION

1/4" = 1'-0"

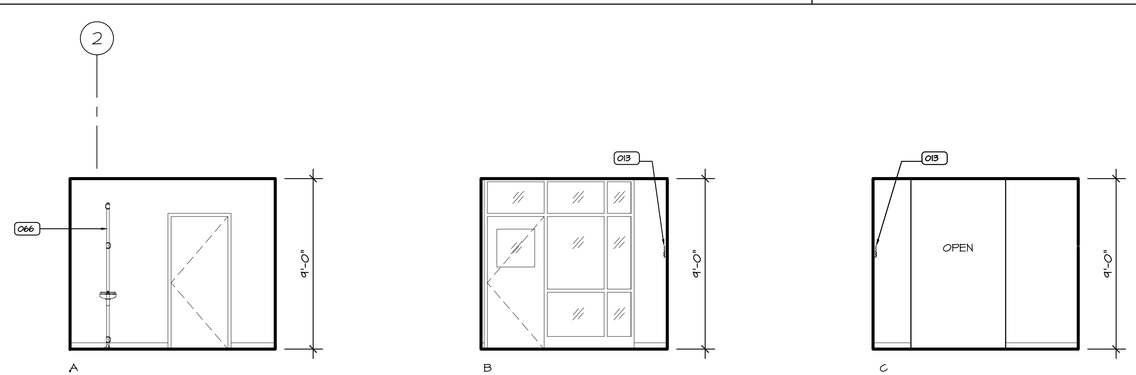
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 CL-A.505 MULTI-DISCIPLINARY / BIOCHEM LAB W4-27 -EAST ELEVATION

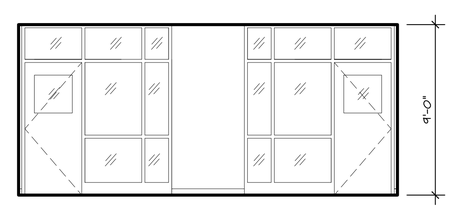
1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



1 CL-A.505 MULTI-DISCIPLINARY / BIOCHEM LAB W4-27

1/4" = 1'-0"



6 CL-A.505 VESTIBULE W4-60A - WEST ELEVATION

1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
INTERIOR ELEVATIONS MULTI-DISCIPLINARY BIOCHEM LAB W4-27

DATE
JULY 17, 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-505

PLOTTED: 9/3/2013 7:40 PM BY: ALEX COLL

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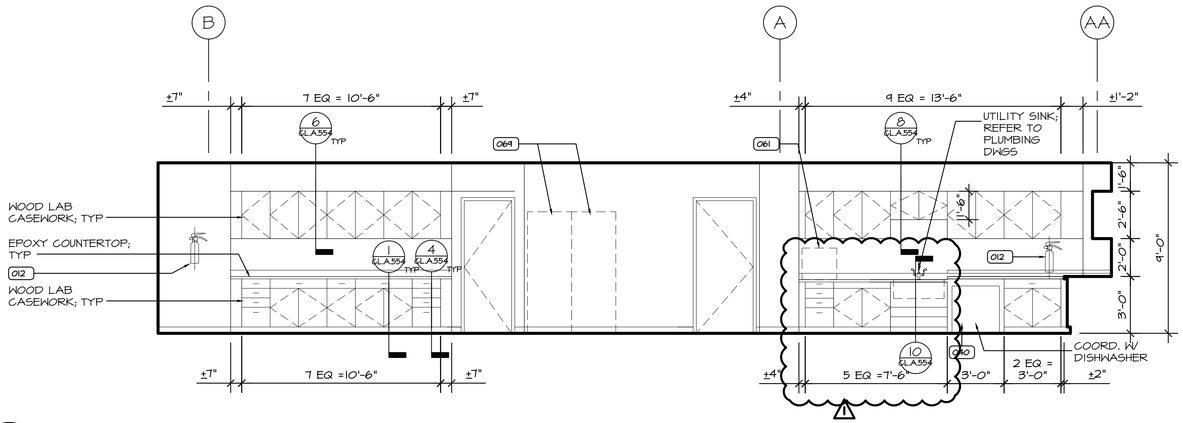
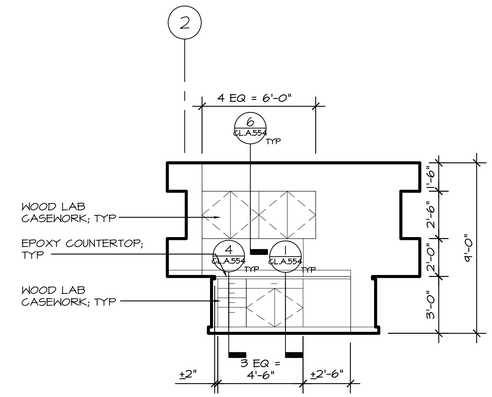


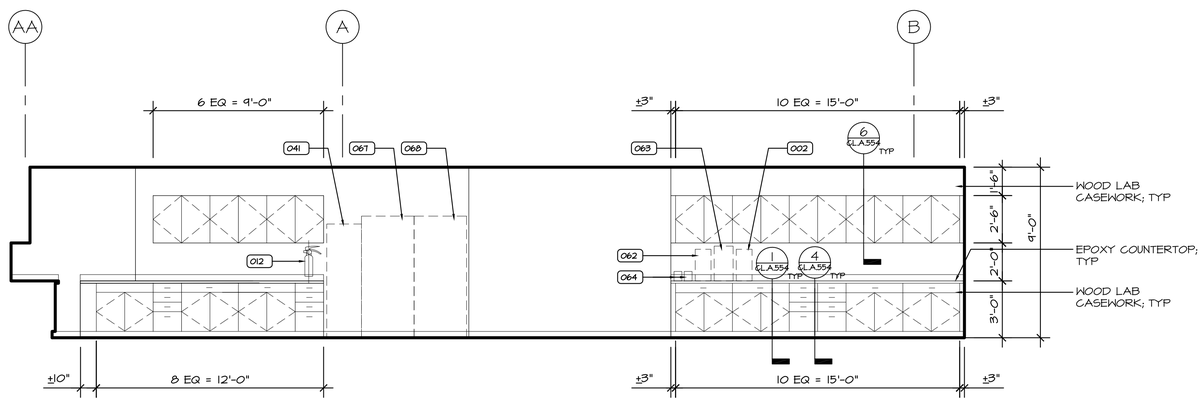
6 PREP ROOM W4-28 - WEST ELEVATION
CL-A.506 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



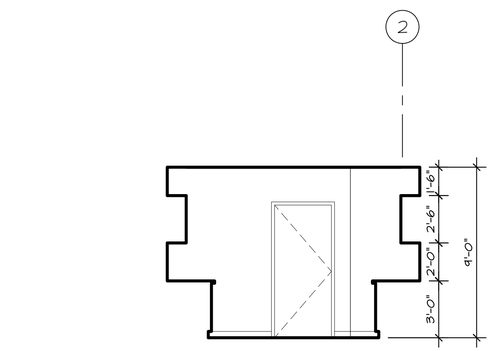
5 PREP ROOM W4-28 - NORTH ELEVATION
CL-A.506 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



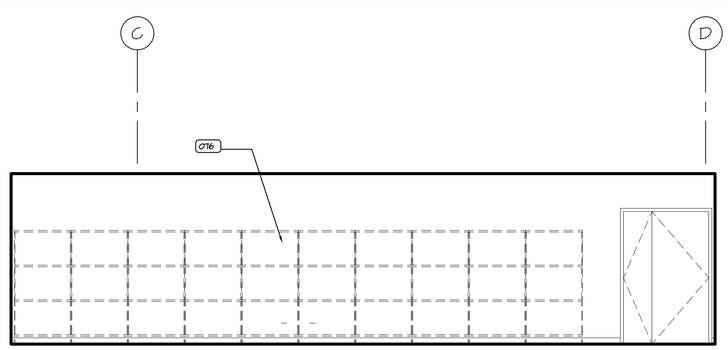
4 PREP ROOM W4-28 - EAST ELEVATION
CL-A.506 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



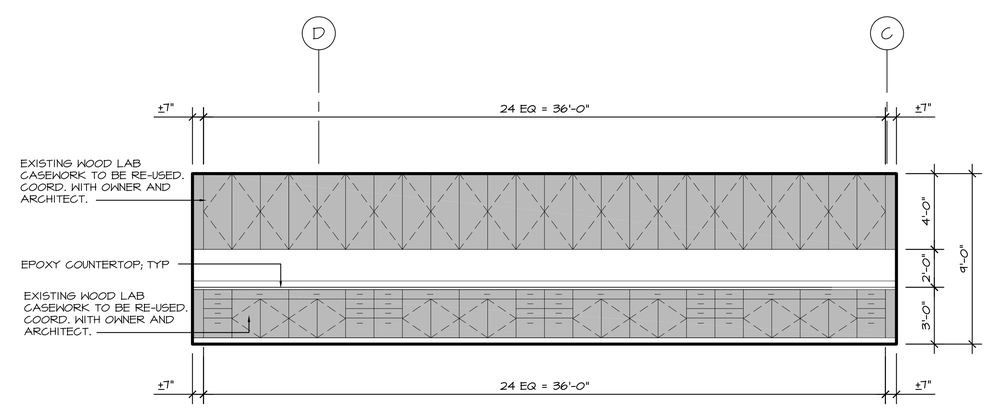
3 PREP ROOM W4-28 - SOUTH ELEVATION
CL-A.506 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 STORAGE W4-29 - EAST ELEVATION
CL-A.506 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



1 STORAGE W4-29 - WEST ELEVATION
CL-A.506 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.

REVISIONS

1	9/03/13 ADDENDUM No 2
	8/16/13 ISSUE FOR PERMIT
	8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
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UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
INTERIOR ELEVATIONS
PREP ROOM W4-28
STORAGE W4-29

DATE JULY 17, 2013

SCALE AS NOTED

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CHECKED BY ASC

PROJECT NUMBER 911

DRAWING NUMBER CL-A-506

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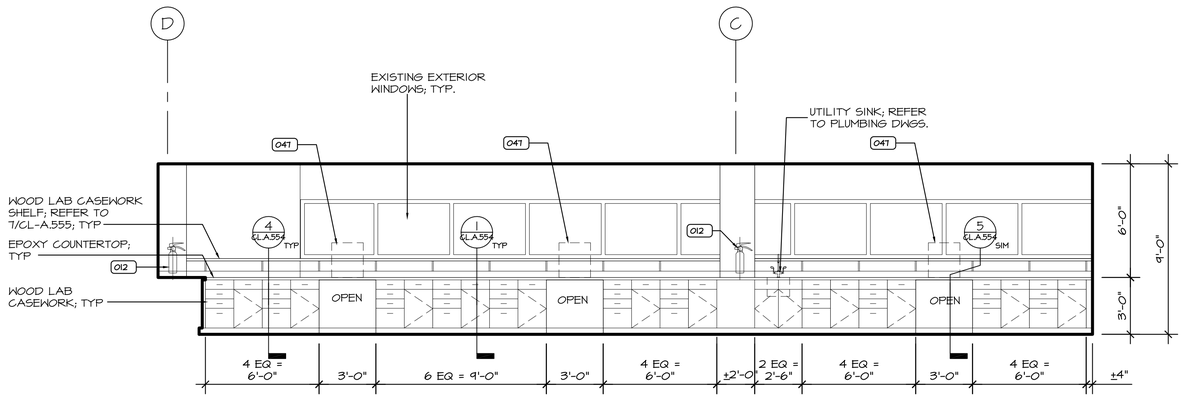
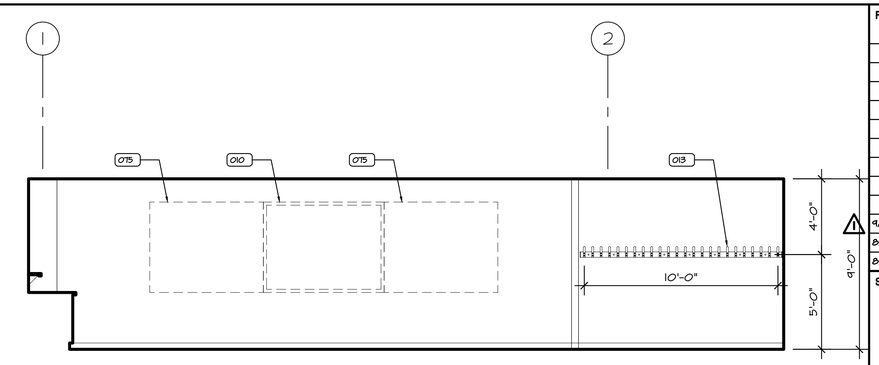


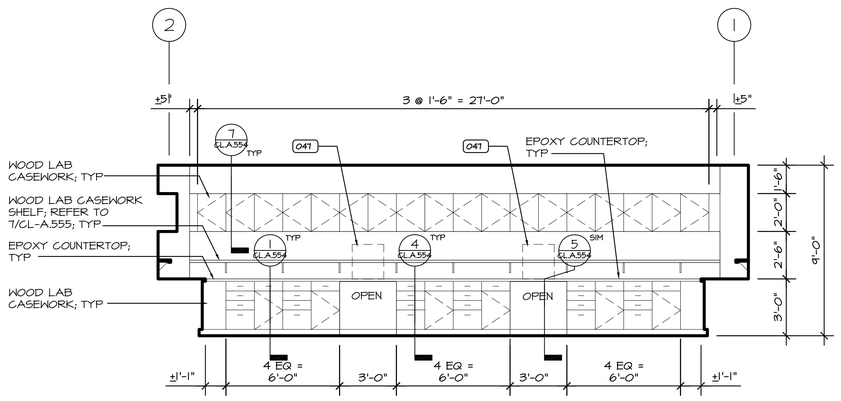
4 CL-A.507 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - WEST ELEVATION
1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



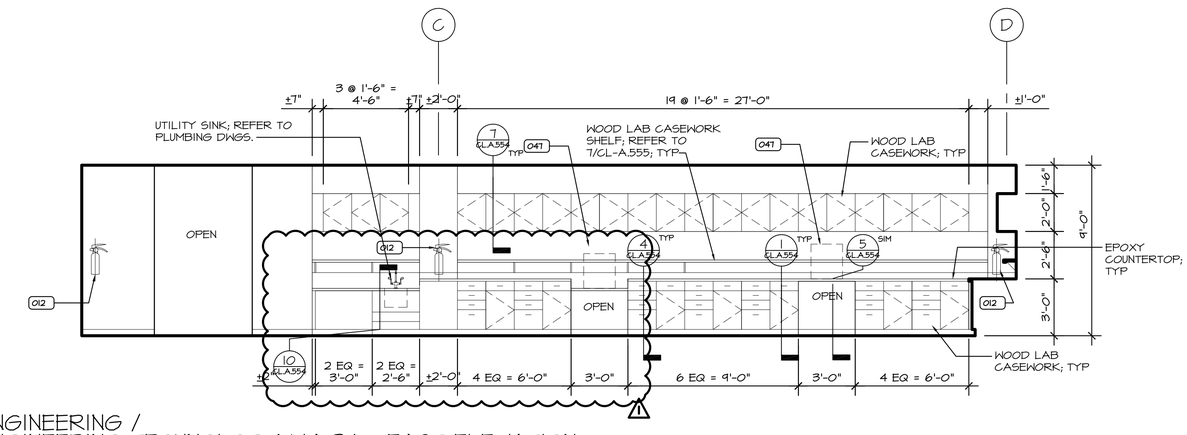
3 CL-A.507 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - NORTH ELEVATION
1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 CL-A.507 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - SOUTH ELEVATION
1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



1 CL-A.507 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - EAST ELEVATION
1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.

REVISIONS

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INTERIOR ELEVATIONS ENGINEERING / ENGINEERING TECHNOLOGY W4-37

DATE
JULY 17, 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-507

PLOTTED: 9/3/2013 7:40 PM BY: ALEX COLL

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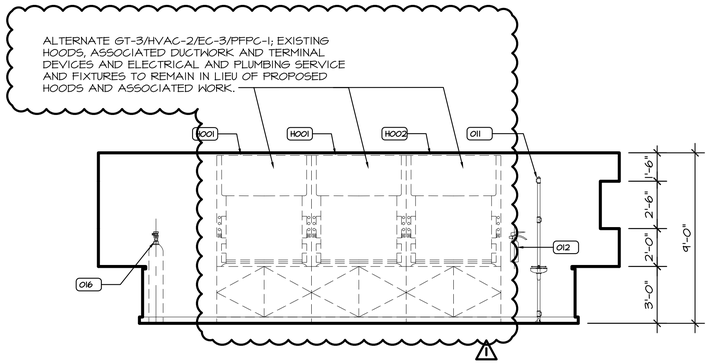
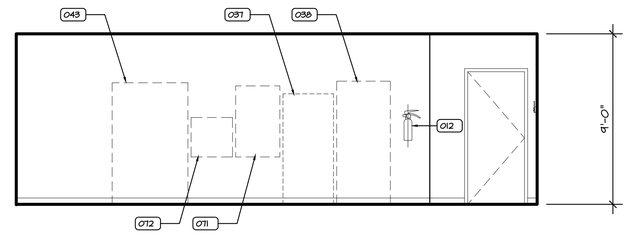


4 RESEARCH LAB W4-38 - NORTH ELEVATION

CL-A.508 1/4" = 1'-0"

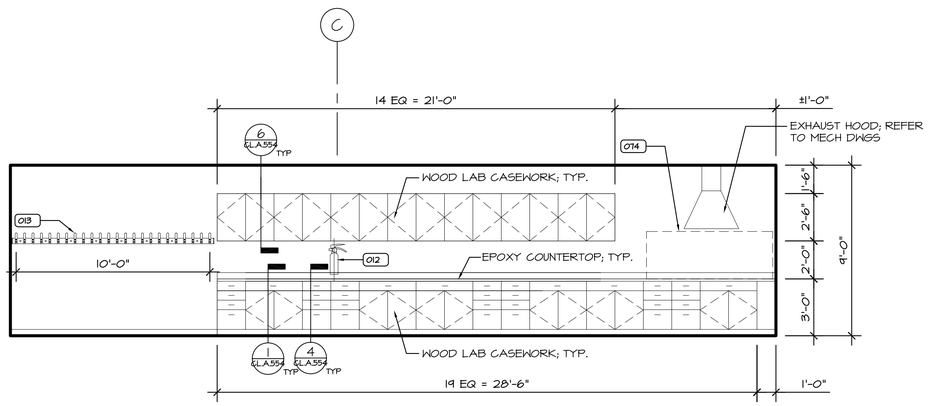
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 RESEARCH LAB W4-38 - SOUTH ELEVATION

CL-A.508 1/4" = 1'-0"

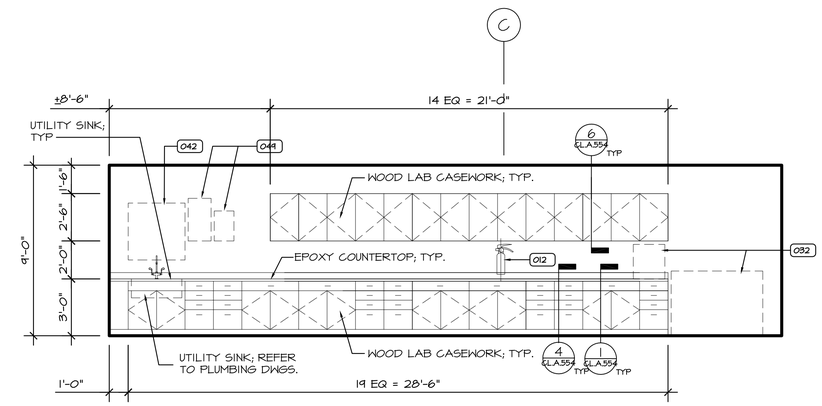
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 RESEARCH LAB W4-38 - WEST ELEVATION

CL-A.508 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



1 RESEARCH LAB W4-38 - EAST ELEVATION

CL-A.508 1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.

REVISIONS

1	9/03/13 ADDENDUM No 2
	8/16/13 ISSUE FOR PERMIT
	8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
INTERIOR ELEVATIONS RESEARCH LAB W4-38

DATE JULY 17, 2013

SCALE AS NOTED

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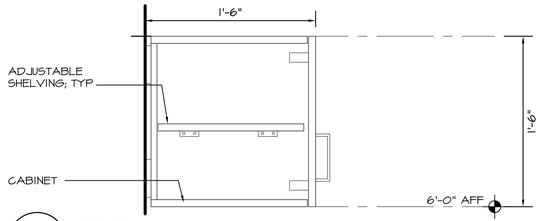
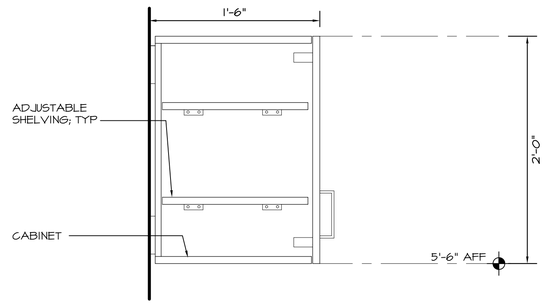


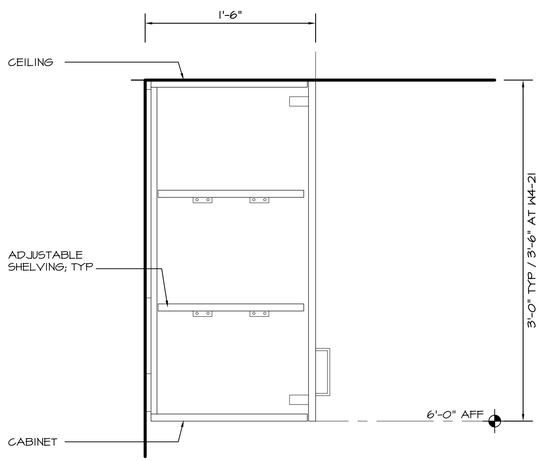
8 DETAIL
CL-A554 1-1/2" = 1'-0"

NOTE:
EXTENT OF GLAZING IS INDICATED ON ELEVATIONS. REFER TO 6/CL-A.554 FOR TYPICAL GLAZING DETAILS



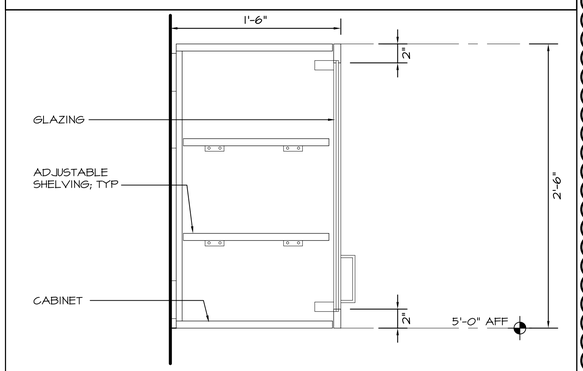
7 DETAIL
CL-A554 1-1/2" = 1'-0"

NOTE:
EXTENT OF GLAZING IS INDICATED ON ELEVATIONS. REFER TO 6/CL-A.554 FOR TYPICAL GLAZING DETAILS



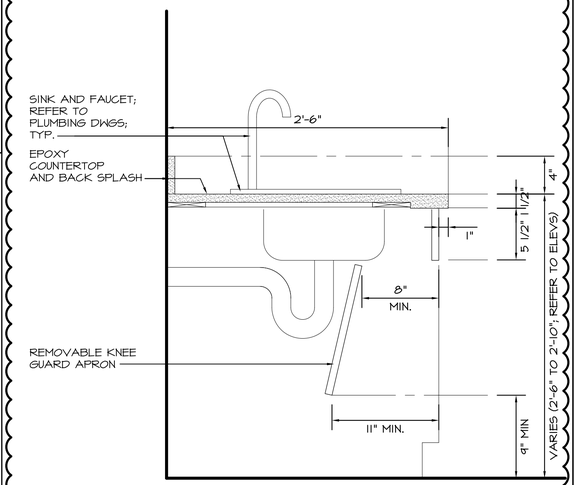
9 DETAIL
CL-A554 1-1/2" = 1'-0"

NOTE:
EXTENT OF GLAZING IS INDICATED ON ELEVATIONS. REFER TO 6/CL-A.554 FOR TYPICAL GLAZING DETAILS

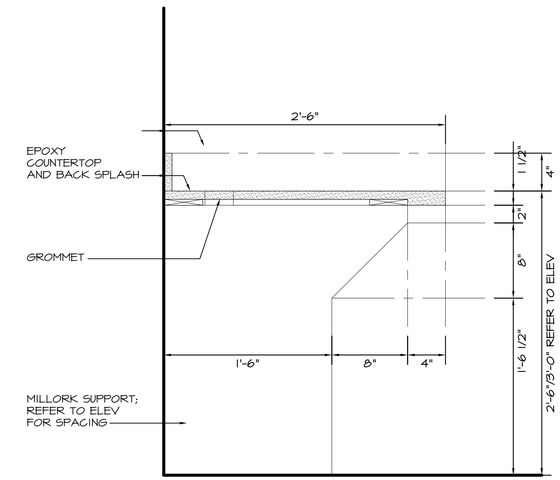


6 DETAIL
CL-A554 1-1/2" = 1'-0"

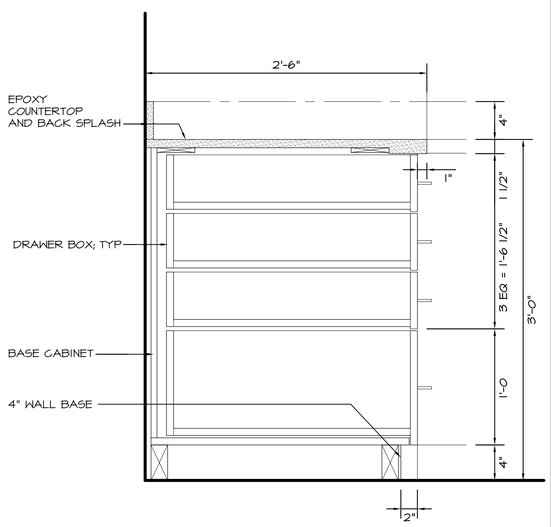
NOTE:
EXTENT OF GLAZING IS INDICATED ON ELEVATIONS. REFER TO 6/CL-A.554 FOR TYPICAL GLAZING DETAILS



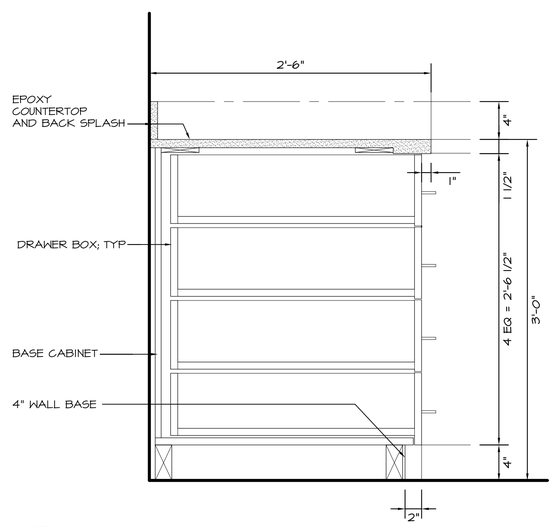
10 DETAIL
CL-A554 1-1/2" = 1'-0"



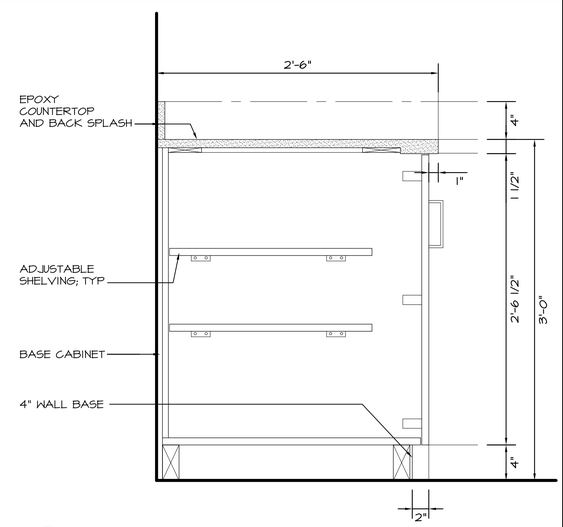
5 DETAIL
CL-A554 1-1/2" = 1'-0"



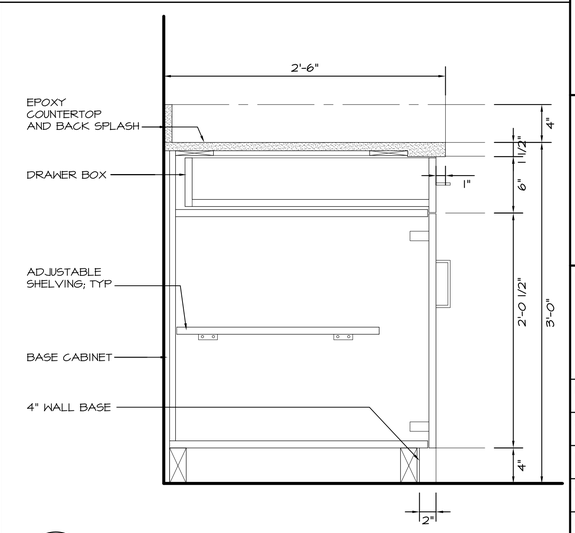
4 DETAIL
CL-A554 1-1/2" = 1'-0"



3 DETAIL
CL-A554 1-1/2" = 1'-0"



2 DETAIL
CL-A554 1-1/2" = 1'-0"



1 DETAIL
CL-A554 1-1/2" = 1'-0"

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS
WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
CASEWORK DETAILS

DATE MARCH 19, 2013
SCALE AS NOTED
DRAWN BY ASC
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-554

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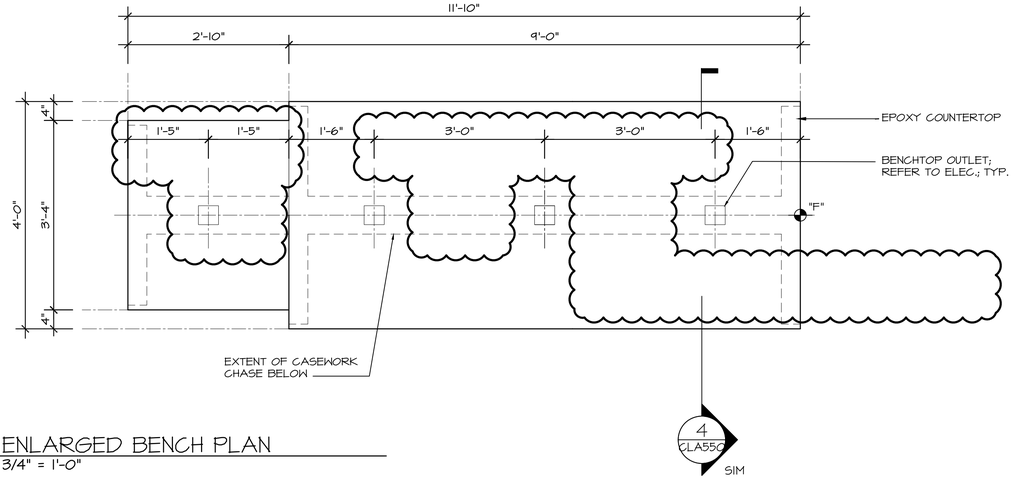
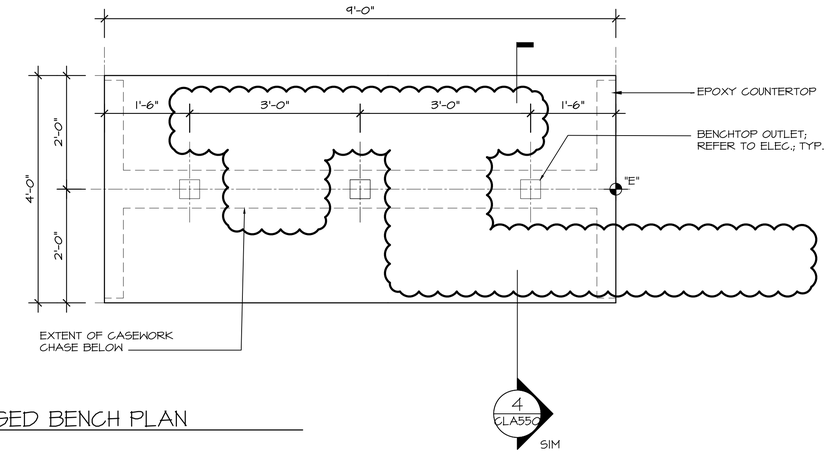
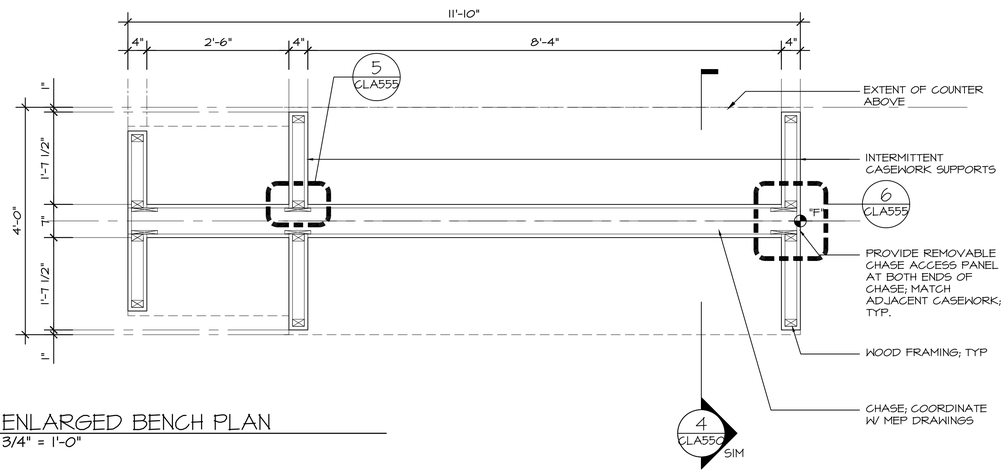


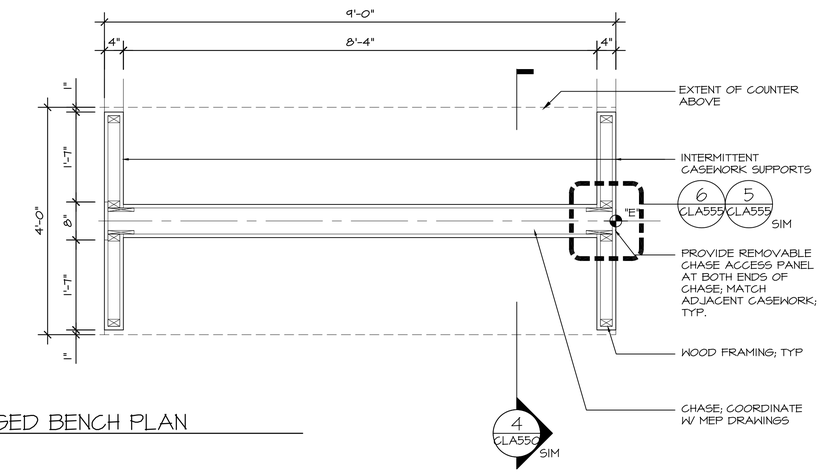
2 ENLARGED BENCH PLAN
CL-A-556 3/4" = 1'-0"



1 ENLARGED BENCH PLAN
CL-A-556 3/4" = 1'-0"



4 ENLARGED BENCH PLAN
CL-A-550 3/4" = 1'-0"



3 ENLARGED BENCH PLAN
CL-A-550 3/4" = 1'-0"

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
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1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
BIOCHEM LAB
BENCH DETAILS

DATE
AUGUST 9 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-556

PLOTTED: 9/3/2013 7:40 PM BY: ALEX COLL

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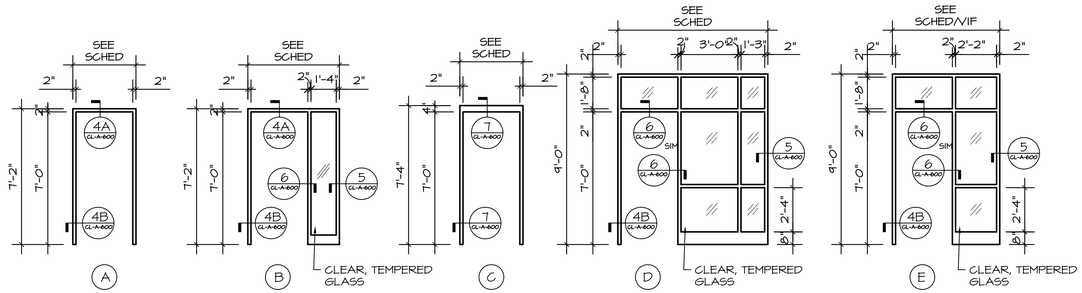
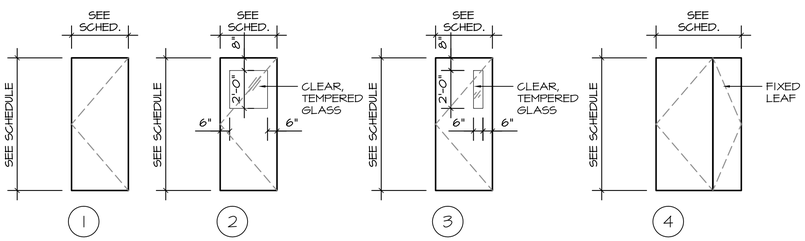
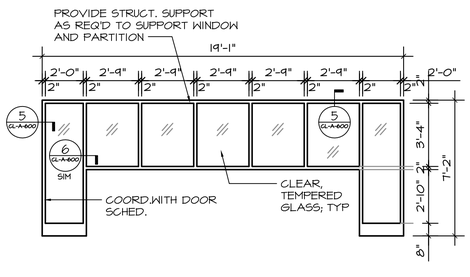


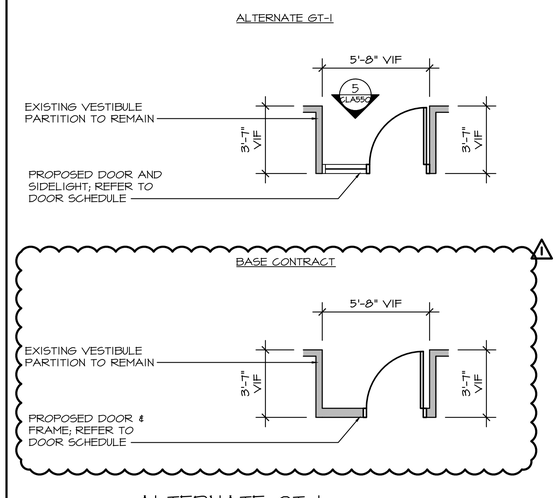
1 FRAME TYPES
CL-A-600 1/4" = 1'-0"



2 DOOR TYPES
CL-A-600 1/4" = 1'-0"



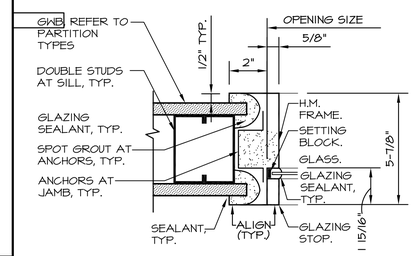
3 BORROWED LITES
CL-A-600 1/4" = 1'-0"



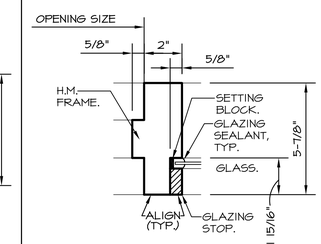
4 ALTERNATE GT-1 DOOR VESTIBULE DETAIL
CL-A-600 1/4" = 1'-0"

DOOR SCHEDULE

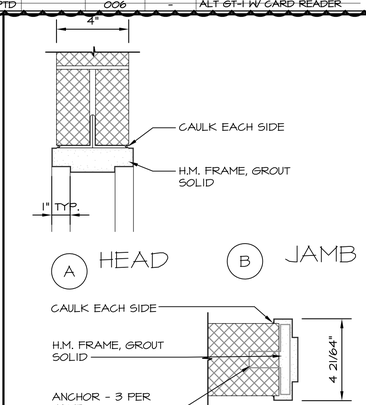
DOOR NUMBER	FROM	TO	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FIN	HARDWARE SET	RATING	REMARKS
PHASE A														
W4-21	INSTRUMENT LAB W4-21	EXST. CORR. W4-76	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-22A	ORGANIC CHEM LAB W4-22	EXST. CORR. W4-76	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-22B	ORGANIC CHEM LAB W4-22	EXST. CORR. W4-76	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-22C	ORGANIC CHEM LAB W4-22	PREP ROOM W4-50	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	005	-	-
W4-22D	ORGANIC CHEM LAB W4-22	INSTRUMENT LAB W4-21	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	002	-	-
W4-22E	PREP ROOM W4-50	ORGANIC CHEM LAB W4-22	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	005	-	-
PHASE C														
W4-27	MULTIDISC LAB W4-27	ALCOVE W4-60A	3'-0"	7'-0"	1-3/4"	2	WD	ST	D	H.M.	PTD	006	-	CARD READER
W4-28A	DATA CLOSET W4-28A	PREP ROOM W4-28	2'-6"	7'-0"	1-3/4"	1	WD	ST	A	H.M.	PTD	004	-	-
W4-28B	MULTIDISC LAB W4-27	PREP ROOM W4-28	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER
W4-28C	MULTIDISC LAB W4-27	PREP ROOM W4-28	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	005	-	-
W4-29A	EXST. CORR. W4-60	STORAGE W4-29	3'-0"	7'-0"	1-3/4"	4	WD	ST	C	H.M.	PTD	003	-	-
W4-29B	ENG/ENG TECH W4-37	STORAGE W4-29	3'-0"	7'-0"	1-3/4"	4	WD	ST	A	H.M.	PTD	001	-	CARD READER
W4-37	ENG/ENG TECH W4-37	ALCOVE W4-60A	3'-0"	7'-0"	1-3/4"	2	WD	ST	D	H.M.	PTD	006	-	CARD READER
W4-44A	CHEM LAB W4-44	EXST. CORR. W4-60A	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-44B	PREP ROOM W4-50	CHEM LAB W4-44	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	005	-	-
W4-44C	CHEM LAB W4-44	CHEM LAB W4-47	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	001	-	180 DEGREE SWING
W4-47A	CHEM LAB W4-44	EXST. CORR. W4-60A	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-47B	PREP ROOM W4-50	CHEM LAB W4-47	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	005	-	-
W4-50	EXST. CORR. W4-34	PREP ROOM W4-50	3'-0"	7'-0"	1-3/4"	2	WD	ST	B	H.M.	PTD	006	-	CARD READER
PHASE C														
W4-38	ENG TECH W4-38	EXST. CORR. W4-60	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-41A	CHEM LAB W4-41	CHEM LAB W4-41	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	006	-	CARD READER; ALT GT-1 FRAME "E"
W4-41B	PREP RM W4-50	CHEM LAB W4-44	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	005	-	-
W4-41C	CHEM LAB W4-41	CHEM LAB W4-44	3'-0"	7'-0"	1-3/4"	2	WD	ST	A	H.M.	PTD	001	-	180 DEGREE SWING
ALTERNATE GT-1; PROVIDE FRAME TYPE "E" IN LIEU OF FRAME TYPE "A" AT DOORS NOTED ABOVE. CARD READER IS BASE CONTRACT														
W4-21	INSTRUMENT LAB W4-21	EXST. CORR. W4-76	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER
W4-22A	ORGANIC CHEM LAB W4-22	EXST. CORR. W4-76	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER
W4-22B	ORGANIC CHEM LAB W4-22	EXST. CORR. W4-76	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER
W4-44A	CHEM LAB W4-44	EXST. CORR. W4-60A	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER
W4-47A	CHEM LAB W4-44	EXST. CORR. W4-60A	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER
W4-38	ENG TECH W4-38	EXST. CORR. W4-60	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER
W4-41A	CHEM LAB W4-41	CHEM LAB W4-41	3'-0"	7'-0"	1-3/4"	2	WD	ST	E	H.M.	PTD	006	-	ALT GT-1 W/ CARD READER



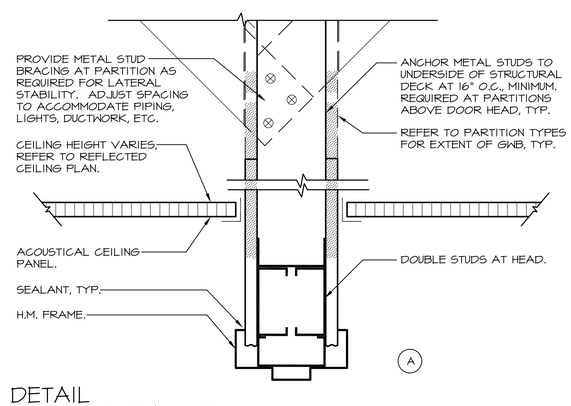
5 DETAIL: BORROWED LITE HEAD/JAMB
CL-A-600 3" = 1'-0"



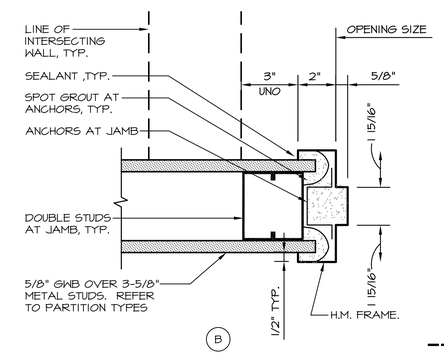
6 DETAIL: BORROWED LITE/DOOR JAMB
CL-A-600 3" = 1'-0"



7 DETAIL: MASONRY HEAD/JAMB
CL-A-600 3" = 1'-0"



4 DETAIL DOOR HEAD/JAMB
CL-A-600 3" = 1'-0"



REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

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PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
DOOR SCHEDULE & MISC DETAILS

DATE MARCH 14, 2013
SCALE AS NOTED
DRAWN BY AME
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-600

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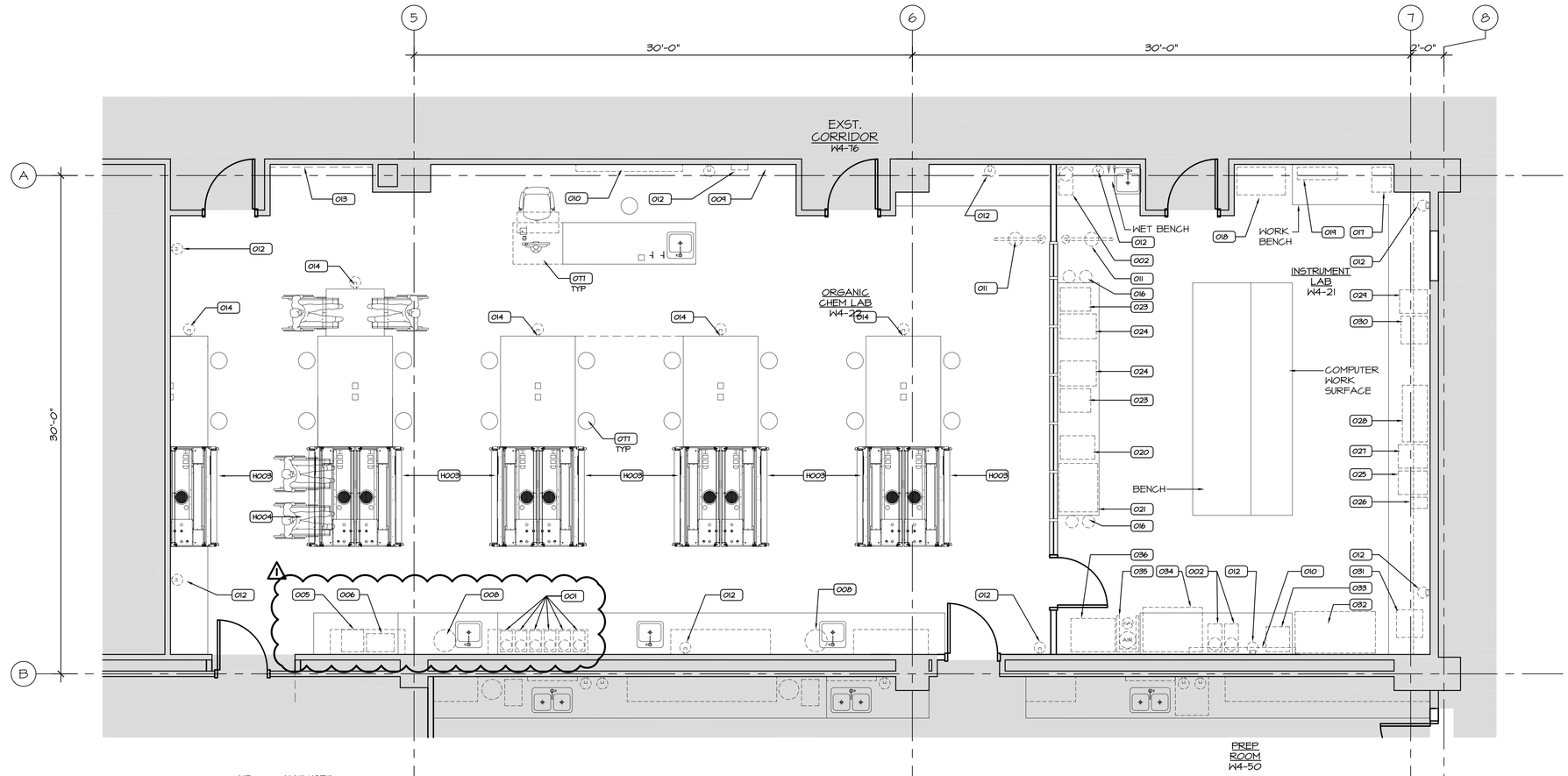

NOTES:

1. REFER TO LIST BELOW FOR FF&E DESIGNATIONS.
2. COORDINATE ALL SERVICE CONNECTIONS AS REQUIRED AND NOTED ON MEPFP DRAWINGS
3. ALL FURNITURE IS OWNER PROVIDED AND INSTALLED, UNO.

EQUIPMENT LIST:

001 - BALANCE, REGULAR; NIC; OWNER FURNISHED AND INSTALLED.

002 - BALANCE, ANALYICAL; NIC; OWNER FURNISHED AND INSTALLED.

003 - HOT WATER BATH; NIC; OWNER FURNISHED AND INSTALLED.

004 - HOT PLATE, LARGE; NIC; OWNER FURNISHED AND INSTALLED.

005 - DRYING OVEN; NIC; OWNER FURNISHED AND INSTALLED.

006 - MICROWAVE OVEN; NIC; ; OWNER FURNISHED AND INSTALLED.

007 - WALL BAROMETER; NIC; ; OWNER FURNISHED AND INSTALLED; PROVIDE BLOCKING.

008 - DISTILLED WATER CARBOY; NIC; OWNER FURNISHED AND INSTALLED.

009 - BAROMETER, WALL-MOUNTED; NIC; OWNER FURNISHED AND INSTALLED; PROVIDE BLOCKING.

010 - SMARTBOARD.

011 - EMERGENCY EYEWASH/SHOWER; CONTRACTOR FURNISHED AND INSTALLED.

012 - FIRE EXTINGUISHER, WALL MOUNTED; CONTRACTOR FURNISHED AND INSTALLED.

013 - HANGSAFE 500 SERIES HOOK RACK; REFER TO ELEVATION FOR LENGTH.

014 - PAPER TOWEL DISPENSER; OWNER FURNISHED AND INSTALLED.

015 - NOT USED.

016 - WALL MOUNTED GAS CYLINDER RESTRAINTS; REFER TO 3/CL-A.610.

017 - GRINDER; NIC; OWNER FURNISHED AND INSTALLED.

018 - LARGE TOOLBOX; NIC; OWNER FURNISHED AND INSTALLED.

019 - SMALL TOOLBOX; NIC; OWNER FURNISHED AND INSTALLED.

020 - GAS CHROMATOGRAPH; NIC; OWNER FURNISHED AND INSTALLED.

021 - GAS CHROMATOGRAPH COMPUTER STATION; NIC; OWNER FURNISHED AND INSTALLED.

022 - GAS CYLINDER STORAGE RACK, (2)X(2); USA SAFETY OR APPROVED EQUIVALENT MANUF; CONTRACTOR FURNISHED AND INSTALLED.

023 - FTIR (FOURIER TRANSFORM INFRARED SPECTROPHOTOMETER); NIC; OWNER FURNISHED AND INSTALLED.

024 - FTIR COMPUTER STATION; NIC; OWNER FURNISHED AND INSTALLED.

025 - UV-VIS MINI (ULTRAVIOLET-VISIBLE SPECTROPHOTOMETER); NIC; OWNER FURNISHED AND INSTALLED.

026 - UV-VIS MINI PRINTER; NIC; OWNER FURNISHED AND INSTALLED.

027 - UV-VIS (ULTRAVIOLET-VISIBLE SPECTROPHOTOMETER); NIC; OWNER FURNISHED AND INSTALLED.

028 - UV-VIS COMPUTER STATION; NIC; OWNER FURNISHED AND INSTALLED.

029 - HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPH); NIC; OWNER FURNISHED AND INSTALLED.

030 - HPLC COMPUTER STATION; NIC; OWNER FURNISHED AND INSTALLED.

031 - PRINTER; NIC; OWNER FURNISHED AND INSTALLED.

032 - NMR (NUCLEAR MAGNETIC RESONANCE SPECTROPHOTOMETER); NIC; OWNER FURNISHED AND INSTALLED.

033 - NMR COMPUTER STATION; NIC; OWNER FURNISHED AND INSTALLED.

034 - AA (ATOMIC ABSORPTION SPECTROPHOTOMETER); NIC; OWNER FURNISHED AND INSTALLED.

035 - GAS CYLINDER STORAGE RACK, (2)X(2); USA SAFETY OR APPROVED EQUIVALENT MANUF; CONTRACTOR FURNISHED AND INSTALLED.

036 - SMART CART; NIC; OWNER FURNISHED AND INSTALLED.

037 - REFRIGERATOR, EXPLOSION PROOF; NIC; OWNER FURNISHED CONTRACTOR INSTALLED.

038 - FREEZER, EXPLOSION PROOF; NIC; OWNER FURNISHED CONTRACTOR INSTALLED.

039 - ELIXIR WATER DISTILLATION UNIT; NIC; OWNER FURNISHED CONTRACTOR INSTALLED.

040 - DISHWASHER; NIC; OWNER FURNISHED CONTRACTOR INSTALLED.

041 - ICE MACHINE; NIC; OWNER FURNISHED CONTRACTOR INSTALLED.

042 - PEG DRYING BOARD; 3'-0" x 3'-0"; CONTRACTOR FURNISHED AND INSTALLED.

043 - VENTED CHEMICAL STORAGE CABINET; CONTRACTOR FURNISHED AND INSTALLED.

044 - PREP ROOM CART; NIC,OWNER FURNISHED AND INSTALLED.

045 - FILE CABINET; NIC OWNER FURNISHED AND INSTALLED.

046 - TYP. PERIMETER STUDENT BENCH WITH OVERHEAD SHELF.

047 - TYP. SHARED COMPUTER STATION; NIC; OWNER FURNISHED AND INSTALLED.

048 - NOT USED.

049 - NOT USED.

050 - NOT USED.

051 - NOT USED.

052 - FIXED HEIGHT LAB TABLE (3'-0" WIDE, FF&E).

053 - ADJUSTABLE HEIGHT LAB TABLE (4'-0" WIDE).

054 - NOT USED.

055 - STILL; NIC; OWNER FURNISHED AND INSTALLED.

056 - ULTRA CENTRIFUGE AND ROTORS; NIC; OWNER FURNISHED AND INSTALLED.

057 - GAS CYLINDERS; NIC; OWNER FURNISHED AND INSTALLED.

058 - GAS LIQUID CHROMATOGRAPH; NIC; OWNER FURNISHED AND INSTALLED.

059 - TYP. PERIMETER COUNTER AND BASE CABINETS.

060 - TYP. PERIMETER COUNTER AND BASE AND OVERHEAD CABINETS.

061 - TYP. WATER BATH; NIC; OWNER FURNISHED AND INSTALLED.

062 - TYP. MICRO-BALANCE; NIC; OWNER FURNISHED AND INSTALLED.

063 - TYP. PH METER; NIC; OWNER FURNISHED AND INSTALLED.

064 - TYP. HOT PLATE/STRIPPER; NIC; OWNER FURNISHED AND INSTALLED.

065 - CHROMATOGRAPHY REFRIGERATOR; NIC; OWNER FURNISHED AND INSTALLED.

066 - TYP. SPECTROPHOTOMETER; NIC; OWNER FURNISHED AND INSTALLED.

067 - ISOTEMP FREEZER; NIC; OWNER FURNISHED AND INSTALLED.

068 - ISOTEMP REFRIGERATOR; NIC; OWNER FURNISHED AND INSTALLED.

069 - TYP. INCUBATOR; NIC; OWNER FURNISHED AND INSTALLED.

070 - ELIX SYSTEM; NIC; OWNER FURNISHED AND INSTALLED.

071 - REGULAR INCUBATOR; NIC; OWNER FURNISHED AND INSTALLED.

072 - CO2 INCUBATOR; NIC; OWNER FURNISHED AND INSTALLED.

073 - FLOW CHANNEL; NIC; OWNER FURNISHED AND INSTALLED.

074 - GCMS (GAS CHROMATOGRAPH MASS SPECTROPHOTOMETER); NIC; OWNER FURNISHED AND INSTALLED

075- WIPE BOARD; OWNER FURNISHED CONTRACTOR INSTALLED.

076- WIRE SHELVING; OWNER FURNISHED CONTRACTOR INSTALLED.

077- FURNITURE; TYP

078- CORNER GUARD

HOODS

H001 - LABORATORY FUME HOOD; TYPICAL; CONTRACTOR FURNISHED AND INSTALLED.

H002 - LABORATORY FUME HOOD; ACCESSIBLE; CONTRACTOR FURNISHED AND INSTALLED.

H003 - ORGANIC CHEMISTRY LABORATORY FUME HOOD; TYPICAL; CONTRACTOR FURNISHED AND INSTALLED.

H004 - ORGANIC CHEMISTRY LABORATORY FUME HOOD; ACCESSIBLE; CONTRACTOR FURNISHED AND INSTALLED.

H005 - LABORATORY FUME HOOD PREP ROOM; CONTRACTOR FURNISHED AND INSTALLED.

H006 - LABORATORY FUME HOOD; PREP ROOM ACCESSIBLE; CONTRACTOR FURNISHED AND INSTALLED.

H007 - LABORATORY FUME HOOD; BIOCHEM; CONTRACTOR FURNISHED AND INSTALLED.

H008 - LABORATORY FUME HOOD; BIOCHEM ACCESSIBLE; CONTRACTOR FURNISHED AND INSTALLED.

1 / CL-A-900

FOURTH FLOOR PLAN
PHASE A - PARTIAL EQUIPMENT PLAN

1/4" = 1'-0"

PROJECT NORTH

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
FOURTH FLOOR PARTIAL EQUIPMENT PLAN PHASE A

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-900

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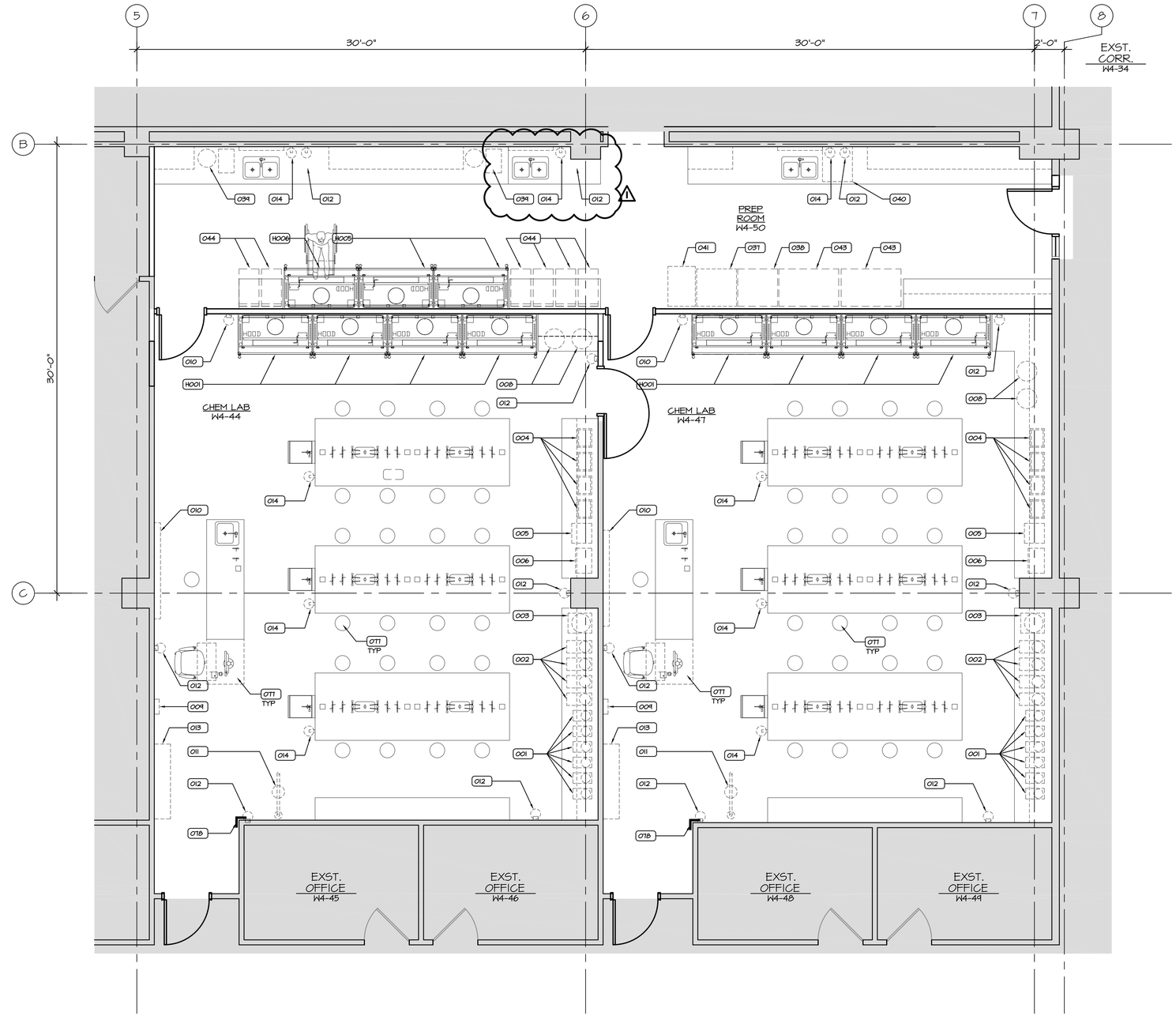

1 CL-A-901

FOURTH FLOOR PLAN
PHASE B - PARTIAL EQUIPMENT PLAN

1/4" = 1'-0"

PROJECT NORTH

NOTE: SEE DWG A-900 FOR EQUIPMENT LIST

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
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DRAWING TITLE
FOURTH FLOOR PARTIAL EQUIPMENT PLAN PHASE B

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-901

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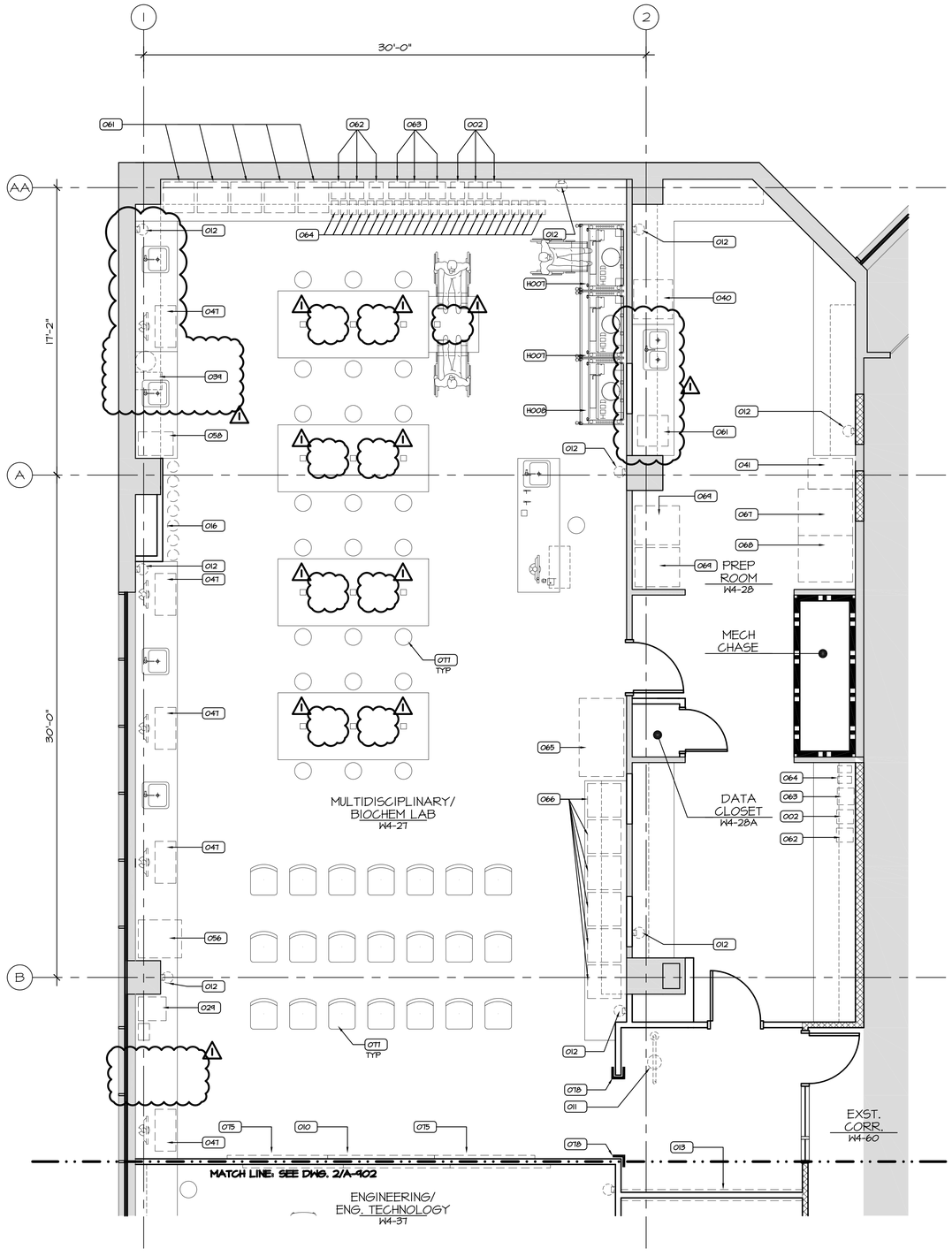
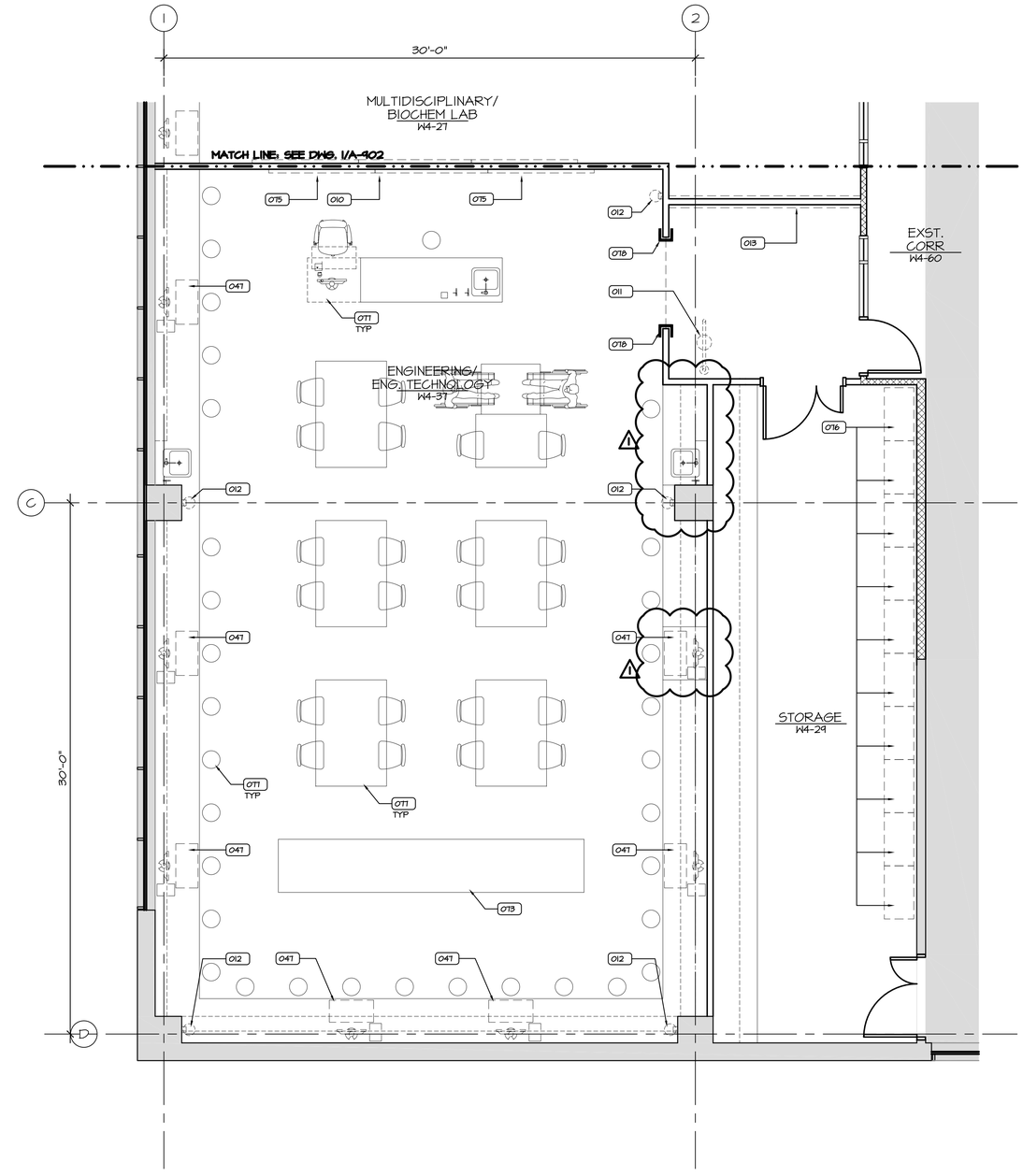


1 CL-A-902 FOURTH FLOOR PLAN
PHASE B - PARTIAL EQUIPMENT PLAN
1/4" = 1'-0"



2 CL-A-902 FOURTH FLOOR PLAN
PHASE B - PARTIAL EQUIPMENT PLAN
1/4" = 1'-0"

PROJECT NORTH

NOTE: SEE DWG A-900 FOR EQUIPMENT LIST

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

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DRAWING TITLE
FOURTH FLOOR PARTIAL EQUIPMENT PLAN PHASE B

DATE MARCH 14, 2013

SCALE AS NOTED

DRAWN BY ASC

CHECKED BY ASC

PROJECT NUMBER 911

DRAWING NUMBER CL-A-902

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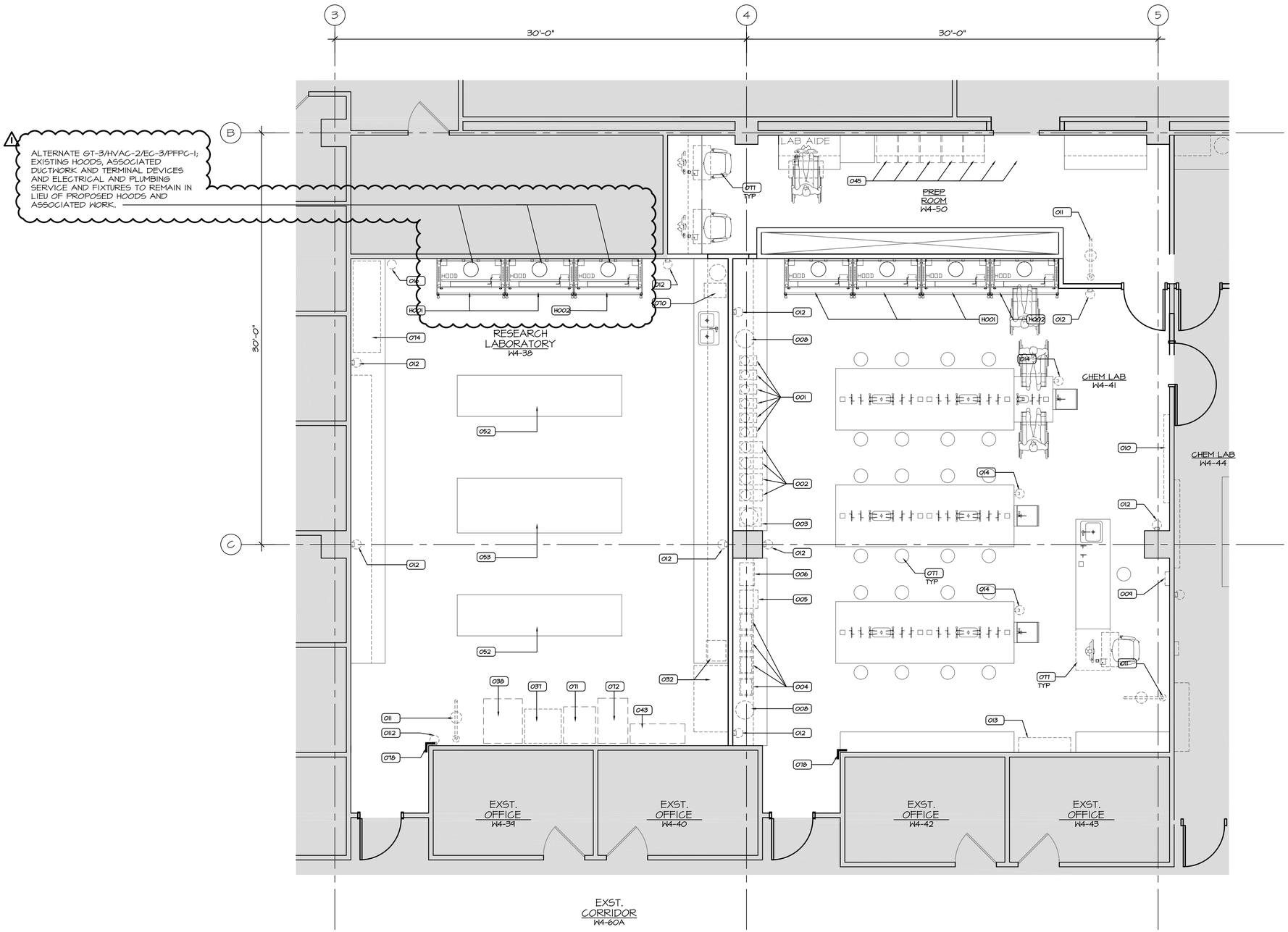

1 CL-A-903 FOURTH FLOOR PLAN
PHASE C - PARTIAL EQUIPMENT PLAN
1/4" = 1'-0"

NOTE: SEE DWG A-900 FOR EQUIPMENT LIST

REVISIONS

9/03/13	ADDENDUM No 2
8/16/13	ISSUE FOR PERMIT
8/15/13	ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

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Historic Preservation
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DRAWING TITLE
FOURTH FLOOR PARTIAL EQUIPMENT PLAN PHASE C

DATE JULY 19, 2013

SCALE AS NOTED

DRAWN BY ASC

CHECKED BY ASC

PROJECT NUMBER 911

DRAWING NUMBER CL-A-903

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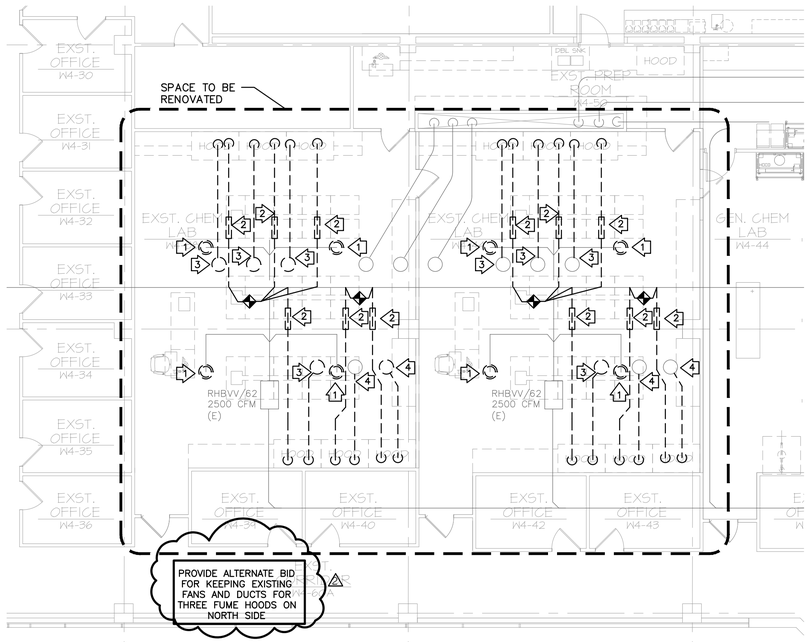


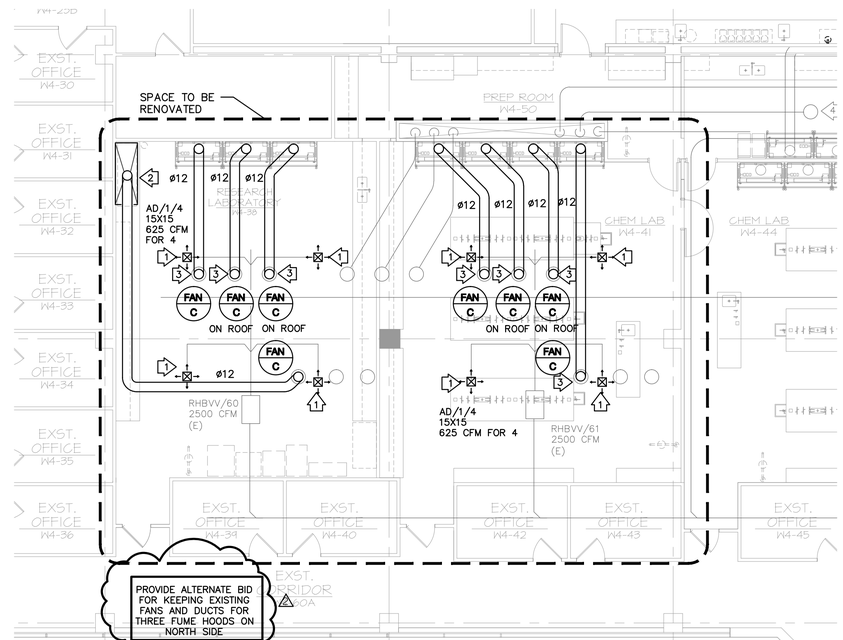
FLAG NOTES:
1. DEMOLISH EXISTING CEILING SA DIFFUSERS. EXISTING BRANCH DUCT TO REMAIN FOR NEW CEILING DIFFUSERS.
2. DEMOLISH EXISTING AIR FLOW CONTROL DEVICES FOR HOOD MAKE UP AIR SUPPLY ALONG WITH ENTIRE BRANCH DUCT.
3. DEMOLISH EXISTING EXHAUST DUCT FROM HOOD TO EXHAUST FAN, EXHAUST FAN AND ROOF CURB. CLEAN ROOF OPENING FOR NEW FAN INSTALLATION.
4. DEMOLISH EXISTING EXHAUST DUCT FROM HOOD TO 12" BELOW ROOF. EXISTING FAN AND CURB SHALL REMAIN. CAP DUCT OPENING WITH INSULATED CAPS.

DRAWING NOTES:
1. AIR DEVICES, DUCTWORK AND EQUIPMENT SHOWN IN DASHED LINES ARE TO BE DEMOLISHED. SALVAGE EQUIPMENT WHERE "(S)" IS INDICATED.
2. OTHERS SHOWN IN LIGHT SOLID LINES ARE EXISTING TO REMAIN.
3. UNIT HEATERS ABOVE CEILING W/PIPING AND CONTROLS (NOT SHOWN ON DRAWING) ARE TO REMAIN.

1 CHEMICAL LAB PHASE C HAVC DEOMLITION PLAN

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

0 2' 4' 8'



FLAG NOTES:
1. NEW SUPPLY DIFFUSER TO REPLACE EXISTING DIFFUSER. MODIFY DUCT IF NECESSARY.
2. NEW EXHAUST HOOD VIKING VCWH6648 OR EQUAL, NO MANUFACTURER VENTILATION KITS IS NEEDED. CONNECT TO DUCT AS INDICATED. BALANCE AT 650 CFM.
3. NEW SSL FUME HOOD EXHAUST DUCT UP TO NEW EXHAUST FAN ON ROOF. COORDINATE WITH EXISTING ROOF OPENING FOR NEW FAN AND CURB INSTALLATION.

DESIGN NOTE:
A. AFTER INSTALLATION OF PHASE B, REBALANCE HV-2 IN ALL REUSED EQUIPMENT SHALL BE TESTED. REPAIR IF NECESSARY.

2 CHEMICAL LAB PHASE C HVAC PLAN

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

0 2' 4' 8'

REVISIONS

9/03/13 ADDENDUM #2 △2
8/26/13 ADDENDUM #1 △1
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
YONGZHONG JIA
ENGINEER
NO.PE060355

FOURTH FLOOR RENOVATIONS

(WEST BUILDING RENOVATION)

COMMUNITY COLLEGE OF PHILADELPHIA

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DRAWING TITLE

CHEMICAL LAB RENOVATION HVAC PHASE C PLANS

DATE 8/11/2013

SCALE AS NOTED

DRAWN BY

CHECKED BY

PROJECT NUMBER 911

DRAWING NUMBER CLH-104.C

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GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN BUT MUST BE PROVIDED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED AND TO TURN OVER COMPLETE AND OPERABLE SYSTEMS TO THE OWNER. ALL CONSTRUCTION WORK SHOWN ON THE CONTRACT DRAWINGS AND NOT EXPRESSLY MENTIONED IN THE SPECIFICATIONS, AND ALL WORK SPECIFIED AND NOT SHOWN ON THE DRAWINGS BUT OBVIOUSLY NECESSARY TO THE PROPER EXECUTION OF SAME, SHALL BE PERFORMED BY THE CONTRACTOR, AS IT IS NOT THE INTENT TO DELINEATE OR DESCRIBE EVERY DETAIL AND FEATURE OF WORK. NO ADDITIONS TO THE CONTRACT SUM WILL BE APPROVED FOR ANY MATERIALS, EQUIPMENT AND/OR LABOR TO PERFORM WORK HEREUNDER UNLESS IT CAN BE CLEARLY SHOWN SUCH WORK IS BEYOND THE SCOPE AND INTENT OF THE DRAWINGS AND SPECIFICATIONS AND ABSOLUTELY ESSENTIAL TO THE PROPER PROSECUTION OF THE WORK.

2. DO NOT SCALE DRAWINGS.

3. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES, ETC. INDICATED ON THE DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS CAUSING ON SITE REVISIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY, PRIOR TO PROCEEDING, THAT CONDITIONS ON THE PROJECT HAVE NOT CAUSED SUCH MODIFICATIONS OF THE WORK PRIOR TO INSTALLATION OF ANY OF THE WORK. IF CONDITIONS ARISE CAUSING SUCH MODIFICATION TO THE WORK THE CONTRACTOR SHALL MAKE SUCH MODIFICATIONS WITHOUT CHANGE TO THE CONTRACT. IF AFTER VERIFICATION AND INSTALLATION OF THE WORK SUCH CONDITIONS ARISE REQUIRING MODIFICATIONS THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR DIRECTION. ANY MODIFICATIONS REQUIRED TO WORK PREVIOUSLY INSTALLED BECAUSE OF THE CONTRACTOR'S FAILURE TO VERIFY THE SITE CONDITIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE DUE FROM THE OWNER FOR THIS FAILURE.

4. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND NOTE EXISTING CONDITIONS THAT MAY AFFECT THE WORK OR THE ABILITY OF THE CONTRACTOR TO PERFORM THE WORK AS THEY INTENDED. ANY ADDITIONAL COSTS RELATED TO THE EXISTING CONDITIONS MUST BE INCLUDED IN THE CONTRACT COST. NO ADDITIONAL COMPENSATION WILL BE DUE FROM THE OWNER FOR THE CONTRACTOR'S FAILURE TO VISIT THE SITE OR CONSIDER THE EFFECTS OF THE EXISTING CONDITIONS ON THE CONTRACTOR'S WORK.

5. ALL SLEEVES, OPENINGS, CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF PLUMBING WORK IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. CUTTING AND PATCHING WORK WILL BE COMPLETED BY THE GENERAL CONSTRUCTION SECTION. THE PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL INFORMATION TO THE GENERAL CONTRACTOR REQUIRED FOR THE WORK. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.

6. PIPING PASSING THROUGH WALLS, FLOORS OR ROOF SHALL BE PROVIDED WITH SLEEVES. SLEEVES IN WATER PROOFING OR DAMP PROOFING SHALL EXTEND TWO (2) INCH BEYOND THE SURFACE OF SUCH WALL, FLOOR OR ROOF AND MADE WATER TIGHT. SLEEVES PASSING THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE PROOFED WITH MATERIALS APPROVED FOR THE RATING OF THE STRUCTURE AND U.L. LISTED. PIPING PASSING THROUGH FINISHED OR EXPOSED WALLS, FLOORS OR CEILING SHALL BE PROVIDED WITH CHROME PLATED ESCUTCHEON PLATES. FAILURE TO PROVIDE SLEEVES FOR ANY REASON BY THE CONTRACTOR SHALL BE CONSIDERED A VIOLATION OF THE REQUIREMENTS OF THE SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO REDO THE WORK WITH THE PROPER SLEEVES IN PLACE.

7. COORDINATE LOCATION OF ALL DEVICES WITH ARCHITECTS DETAILED ELEVATIONS, SECTIONS, REFLECTED CEILING PLAN, AND STRUCTURAL DRAWINGS. LOCATIONS INDICATED ON PLUMBING DRAWINGS ARE STRICTLY DIAGRAMMATIC. FAILURE TO COMPLY WILL RESULT IN THE CONTRACTOR CORRECTING THE WORK AT THEIR OWN COSTS.

8. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

9. COORDINATE ALL EQUIPMENT CLEARANCES WITH OTHER TRADES. FAILURE TO COORDINATE THE WORK WITH ALL OTHER TRADES RESULTING IN CONFLICTS WILL RESULT IN THIS CONTRACTOR CORRECTING THE WORK AT THEIR OWN COSTS.

10. ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILING UNLESS OTHERWISE SPECIFICALLY NOTED.

11. ACCESS PANELS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. AND SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONSTRUCTION CONTRACTOR. IT WILL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO INFORM THE GENERAL CONSTRUCTION SECTION WHERE EACH ACCESS PANEL IS REQUIRED AND ALSO COORDINATE ALL LOCATIONS WITH THE ARCHITECT.

12. ALL WORK WILL BE DONE WHILE THE BUILDING IS OCCUPIED. SHUT DOWN OF UTILITIES SHALL BE COORDINATED WITH OWNER TWO WEEKS IN ADVANCE OR INSTRUCTED BY OWNER.

13. ALL WORK WILL BE DONE WHILE THE BUILDING IS OCCUPIED. CONTRACTOR SHALL MINIMIZE AFFECTED AREAS BY THE CONSTRUCTION. MAINTAIN ALL SERVICES TO AREAS NOT IN SCOPE OF WORK.

SPECIFICATIONS

A. GENERAL:

1. THE ENTIRE INSTALLATION, INCLUDING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM TO ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES AND IN COMPLIANCE WITH THE LATEST EDITIONS OF INTERNATIONAL PLUMBING CODE, INTERNATIONAL GAS AND FUEL CODE, INTERNATIONAL FIRE CODE, THE LIFE SAFETY CODE, LOCAL BUILDING CODE, HEALTH CODES, NATIONAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, NFPA, AND ALL AMENDMENTS.

2. THE PLUMBING CONTRACTOR MUST OBTAIN APPROVED CONSTRUCTION DRAWINGS FROM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY WORK.

3. THE PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND LICENSES PERTAINING TO THE WORK.

4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PLUMBING WORK WITH OTHER TRADES SO AS TO PROVIDE THE SYSTEM AS DESCRIBED.

5. THE PLUMBING CONTRACTOR SHALL INCLUDE IN PLUMBING PROPOSAL A ONE YEAR GUARANTEE-WARRANTY ON ALL INSTALLED EQUIPMENT AND MATERIALS. THIS GUARANTEE-WARRANTY IS TO INCLUDE ALL LABOR, MATERIALS, PARTS, ETC. NECESSARY TO MAINTAIN THE SYSTEM IN SATISFACTORY OPERATION FOR A PERIOD OF ONE YEAR STARTING FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE OWNER.

6. PLUMBING CONTRACTOR SHALL PROVIDE THE WORK INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN FOR ALL PLUMBING WORK. THE WORD "WORK" SHALL MEAN ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE ALL FINAL CONNECTIONS AND LEAVE IN AN APPROVED OPERATING CONDITION.

7. THE PLUMBING CONTRACTOR SHALL NOTIFY LOCAL INSPECTOR FOR ALL REQUIRED INSPECTIONS THROUGHOUT THE CONSTRUCTION THAT ARE UNDER THE LOCAL INSPECTOR'S JURISDICTION.

8. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING WITH REGARD TO THE PLUMBING WORK: WORKMAN IDENTIFICATION, WORKER'S SAFETY CONTRACTOR'S LIABILITY INSURANCE, SAFETY BARRICADES, WARNING SIGNS AND TRASH REMOVAL.

9. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL RIGGING, HANDLING OF MATERIALS AND EQUIPMENT, AND NECESSARY PROTECTION FOR MATERIALS AND EQUIPMENT. TOOLS AND EQUIPMENT WILL ONLY BE STORED IN OWNER DESIGNATED AREAS ONLY.

10. THE PLUMBING CONTRACTOR WILL PROTECT THE WORK AND MATERIALS AGAINST DIRT, THEFT, INJURY OR DAMAGE UNTIL ACCEPTED BY THE OWNER. ALL WORK SHALL BE TURNED OVER TO THE OWNER CLEAN AND IN NEW CONDITION READY FOR SATISFACTORY SERVICE.

11. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL FOUNDATIONS, HANGERS AND DUNNAGE FOR ALL EQUIPMENT SUPPLIED AND/OR INSTALLED UNDER THIS WORK. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH VIBRATION ISOLATION SUPPORTS OR HANGERS AND FLEXIBLE PIPE CONNECTORS.

12. ALL EQUIPMENT SHALL BE PROVIDED WITH FACTORY FINISHED PAINT BY THE MANUFACTURER.

13. THE PLUMBING CONTRACTOR SHALL CHECK AND VERIFY ALL SIZES, DIMENSIONS AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATIONS OR PROBLEMS SHALL BE TRANSMITTED TO THE ARCHITECT FOR REVIEW.

B. EXISTING CONDITIONS:

1. BIDDERS SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AND/OR PRESENT AREAS AFFECTED BY THIS WORK SO AS TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK.

2. IF DISCREPANCIES ARE NOTED BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS THE ARCHITECT SHALL BE NOTIFIED AND THE CONTRACTOR SHALL RECEIVE CLARIFICATION BEFORE SUBMITTING BID. THE SUBMISSION OF A PROPOSAL SHALL INDICATE THAT ALL CHARGES AND COSTS MADE NECESSARY BY EXISTING CONDITIONS ARE INCLUDED AND THAT THE COMPLETE SYSTEM AS DESCRIBED ABOVE WILL BE FURNISHED AT THE PROPOSED COST.

C. SUBMITTALS:

1. PLUMBING CONTRACTOR SHALL SUBMIT SUBMITTAL SHEETS AND EQUIPMENT SPECIFICATIONS (SHOP DRAWINGS) OF ALL EQUIPMENT, PIPING, VALVES, ACCESSORIES, ETC. FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK. INCLUDING THE FOLLOWING:
   - 1.1. VALVES, PLUMBING FIXTURES, FLOOR DRAINS
   - 1.2. INSPECTION AND TEST REPORTS. CERTIFICATES OF INSPECTIONS AND TESTS FROM AN INDEPENDENT TESTING AGENCY.
   - 1.3. MAINTENANCE MANUALS OF PROCESS PIPING SYSTEM AND COMPONENTS.
   - 1.4. THREE (3) SETS OF AS-BUILT DRAWINGS OF THE PROJECT. ANY DEVIATIONS, CHANGES OR ADDITIONS TO THE CONTRACT DRAWINGS MUST BE INDICATED ON THE AS-BUILT DOCUMENTS..

D. DELIVERY, STORAGE AND HANDLING.

1. DELIVER AND STORE EQUIPMENT ON FACTORY INSTALLED SHIPPING SKIDS, SMALL SPECIALTIES IN FACTORY FABRICATED CONTAINERS AND PIPING WITH SEALING PLUGS IN ENDS OR WITH OTHER PROTECTION.

E. GENERAL PIPING, VALVES AND SUPPORTS FOR PLUMBING SYSTEMS:

1. SANITARY PIPING
   - a. SANITARY SEWER PIPING: CAST IRON, COMPLY WITH ASTM A74, ASTM A888, AND CISPI 301.
   - b. CONTRACTOR SHALL RUN ALL NEW UNDERGROUND SANITARY LINES AT A MINIMUM PITCH OF 1/8" PER FOOT UNLESS PITCH IS INDICATED. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT INVERT ELEVATIONS AND PIPE LOCATIONS AS WELL AS MAKING ALL CONNECTIONS TO SITE MAIN IN A MANNER ACCEPTABLE TO THE LOCAL PLUMBING INSPECTOR.
2. WATER PIPING:
   - a. WATER PIPING WITHIN BUILDING AND ABOVE GROUND SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS AND VALVES AT EQUIPMENT MAKEUP INLET CONNECTIONS. SOLDER SHALL BE LEAD FREE.
   - b. PROVIDE FLUSHING AND DISINFECTING AS PRESCRIBED IN LOCAL HEALTH AUTHORITIES' STANDARDS. IN ABSENCE, PROVIDE AS PRESCRIBED IN AWWA C-651.
   - c. CONTRACTOR SHALL ONLY RUN DOMESTIC WATER PIPING UNDERGROUND WHEN ABSOLUTELY NECESSARY, USING TYPE "K" SOFT COPPER TUBING WITH MINIMUM JOINTS UNDERGROUND. JOINTS SHALL BE MADE BY SWAGING ONE TUBE END AND BRAZING THE JOINT USING A LEAD AND CADMIUM FREE AWS BAG GROUP SILVER SOLDER OR AWS BCUP COPPER PHOSPHORUS GROUP BRAZING ALLOY. CONTRACTOR SHALL SUBMIT MSDS FOR SILVER SOLDER OR BRAZING ALLOY.
   - d. UTILITY SERVICE PIPING LOCATED WITHIN BUILDINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE STRUCTURAL SAFETY AND FIRE PROTECTION PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
3. LABORATORY WASTE PIPING:
   - a. ALL LAB DRAIN PIPING SHALL BE OF ACID-RESISTING CAST IRON, OR SARAN-LINED STEEL PIPE. PROVIDE ALTERNATE BID FOR USING POLY-PRO PIPE. CONTRACTOR MUST PROVIDE BOTH PRICES FOR BASE AND ALTERNATE BID. FINAL ACCEPTANCE OF POLY-PRO PIPE SUBJECT TO APPROVAL BY CITY OF PHILADELPHIA 2
4. LABORATORY GAS AND COMPRESSED AIR PIPING:
   - a. ALL NEW AND RENOVATED LABORATORY GAS SYSTEMS SHALL BE DESIGNED, INSTALLED, TESTED/CERTIFIED IN STRICT ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODES.
   - b. ALL PIPING SHALL BE LABELED IN ACCORDANCE WITH OSHA AND ASME A13.1.
   - c. ALL GAS PIPING SHALL BE SEAMLESS TYPE L (ASTM B-88) DRAWN COPPER TUBING. WHERE MATERIAL COMPATIBILITY ISSUES BETWEEN THE PIPING AND GAS, SUITABLE MATERIALS MUST BE UTILIZED.
   - d. ALL GAS PIPING JOINTS SHALL BE BRONZED IN ACCORDANCE WITH ANSI/ANS A5.8 AND FEDERAL SPECIFICATION GG-B-654 A GRADE III.
   - e. ALL GAS SYSTEMS SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH INTERNATIONAL, NATIONAL, AND PGW REQUIREMENTS.
5. INSULATE PIPING:
   - a. DOMESTIC COLD WATER MAINS, LAB WASTE ABOVE GROUND SHALL BE INSULATED WITH 1/2" THICK OWENS CORNING SSL-II FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. DOMESTIC HOT WATER LINES SHALL BE INSULATED WITH 1" THICK OWENS CORNING SSL-II FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. SAME THICKNESS ARMAFLEX OR RUBATEX MAY BE SUBSTITUTED WITH JOINTS GLUED & TAPED FOR POSITIVE VAPOR BARRIER.
5. PLUMBING SPECIALTIES:
   - a. DRAINAGE SPECIALTIES (CLEAN OUTS, TRENCH DRAINS AND FLOOR DRAINS) SHALL BE FROM A SINGLE MANUFACTURER AS NOTED IN THE PLUMBING FIXTURE SCHEDULE OR APPROVED EQUAL. CONTRACTOR SHALL COORDINATE TOP SHAPE FOR FLOOR DRAINS AND CLEAN OUTS WITH FINAL FLOOR FINISHES. IN GENERAL, PROVIDE SQUARE TOPS IN TILE FLOORS, AND ROUND TOPS IN OTHER AREAS.
6. SHUTOFF VALVES - DOMESTIC WATER:
   - a. PROVIDE AN ACCESSIBLY LOCATED VALVE IN EACH CONNECTION TO A PIECE OF EQUIPMENT AND AT ALL OTHER POINTS WHERE INDICATED OR REQUIRED FOR PROPER SYSTEM OPERATION AND MAINTENANCE.
     1. BALL VALVES: 600 PSI WOG, FULL PORT, THREE PIECE, BRONZE BODY CHROME PLATED STEEL BALL AND STEM. NIBCO T595Y SERIES, THREADED ENDS; NIBCO S5595Y SERIES, SWEAT ENDS.
     2. PROVIDE A SHUT OFF VALVE TO EACH FIXTURE ON COLD AND HOT WATER PIPE RISER.
     3. DOMESTIC WATER SERVICE VALVES SHALL BE BALL VALVES, APOLLO SERIES 70-100 (THREAD) OR 70-200 (SWEAT) BALL VALVES, OR EQUAL BY NIBCO OR WATTS.
7. PLUMBING FIXTURES:
   - a. PLUMBING FIXTURES SHALL REFER TO SCHEDULE. EQUIVALENT FIXTURES ARE ACCEPTABLE, PENDING APPROVAL. WHERE MANUFACTURER'S PRODUCT LINE PERMITS, ALL FIXTURES SHALL BE FROM A SINGLE MANUFACTURER. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH SHUTOFF VALVES.
8. NEW COMBO VALVE AND TURRET ON LAB BENCH:
   REFER TO SECTION 11610, PROVIDED BY GC. INSTALLED AND PIPED BY PC
9. EMERGENCY PUSH BOTTON
   1. PUSH-TO-STOP, TWIST-TO-RELEASE OPERATION
   2. MECHANICAL LIFE: 300,000 OPERATIONS
   3. OPERATING FORCE: 0.8 KG
   4. METAL BUTTON: THE ADAPTER IS FIXED TO THE MOUNTING SURFACE
   5. CONSTRUCTION PLASTIC PARTS: POLYAMIDE AND POLYCARBONATE
   6. METAL PARTS: ALUMINUM AND ZINC ALLOY
   7. ENVIRONMENTAL RATING: NEMA 4, 13
   8. OPERATING TEMPERATURE: -13⅛ TO +140⅛ F
   9. UL LISTED
   10. DESIGN BASE MODEL BANNER S6A-EBM
10. MOTORIZED GAS VALVES
   1. COMPLY WITH UL 429.
   2. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
      - a. ASCO POWER TECHNOLOGIES, LP; DIVISION OF EMERSON.
      - b. DUNGS, KARL, INC.
      - c. ECLIPSE COMBUSTION, INC.
      - d. GOYEN VALVE CORP.; TYCO ENVIRONMENTAL SYSTEMS.
      - e. MAGNATROL VALVE CORPORATION.
      - f. WATTS REGULATOR CO.; DIVISION OF WATTS WATER TECHNOLOGIES, INC.
   3. PRODUCTS:
      - PILOT OPERATED.
      - BODY: BRASS OR AL
      - SEATS AND DISC: NITRILE RUBBER.
      - SPRINGS AND VALVE TRIM: STAINLESS STEEL.
      - 24-V AC, 60 HZ, CLASS B, CONTINUOUS-DUTY MOLDED COIL, AND REPLACEABLE.
      - LESS THAN 54 VA AT 24V FOR FAST ACTION
      - NEMA ICS 6, TYPE 4, COIL ENCLOSURE.
      - NORMALLY CLOSED.
      - VISUAL POSITION INDICATOR.
      - MANUALLY RESET AFTER POWER FAILURE
      - BASE DESIGN: BLACK TERNIGAS-SERIES 2000, SIZE AS GAS PIPE SIZE SERVED.

PLUMBING FIXTURE RUNOUT SCHEDULE

Symbol	Fixture	Waste	Cold Water	Hot Water	Manufacturer and Model Number	NOTE
ESS	EMERGENCY SHOWER AND EYE WASH	1-1/2"	1-1/4"	–	GUARDIAN G1202P WITH AP 275-100 ELECTRIC LIGHT AND ALARM HORN, STAINLESS STEEL SHOWER HEAD	MEET ANSI Z258.1
LS	LABORATORY SINK	1-1/2"	1/2"	1/2"	TECLAB SS-1919, WITH FM8-412 FAUCET	
LS1	LABORATORY SINK	1-1/2"	1/2"	1/2"	TECLAB SS-1918, WITH FM8-412 FAUCET	
LS2	LABORATORY SINK	1-1/2"	1/2"	1/2"	TECLAB RS-21, WITH FM8-412 FAUCET 2	
DS	LABORATORY SINK	1-1/2"	1/2"	1/2"	TECLAB SC-2918, WITH FM8-412 FAUCET	
BS	BENCH END SINK	1-1/2"	1/2"	1/2"	ADVANCE TABCO 4-1-18 W/BK RESOURCES BKF-12 2	
CS	CUP SINK	1-1/2"			TECHLAB REAIN CUPSINK RS-0505	

FLOOR DRAINS/CO

FD/CO

Type	Function	Manufacturer & Model No.	Remarks
FD	FLOOR DRAIN	JOSAM 30000-5C-17-50	VANDAL-PROOF GRATE & 1/2" PRIMER TAP
CO	FLOOR CLEAN OUT	JOSAM 56670 STAIN FINISH BRASS TOP	

REVISIONS

9/03/13 ADDENDUM #2 2
8/26/13 ADDENDUM #1 1
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

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DRAWING TITLE
FOURTH FLOOR PLUMBING COVER SHEET

DATE 8/11/2013
SCALE AS NOTED
DRAWN BY
CHECKED BY
PROJECT NUMBER 911
DRAWING NUMBER CLP-000

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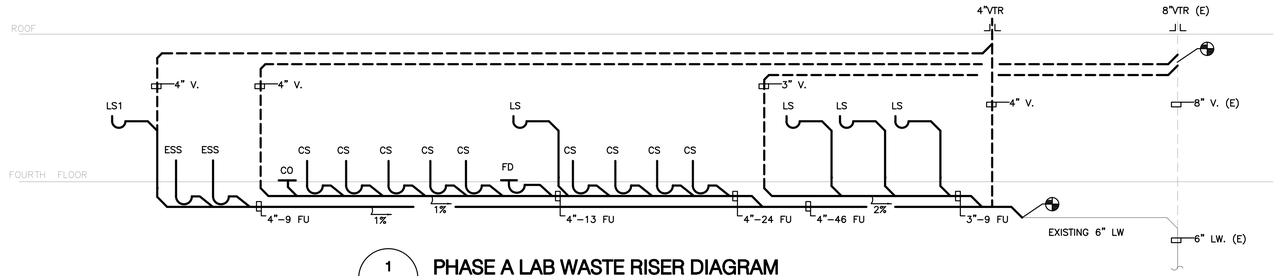
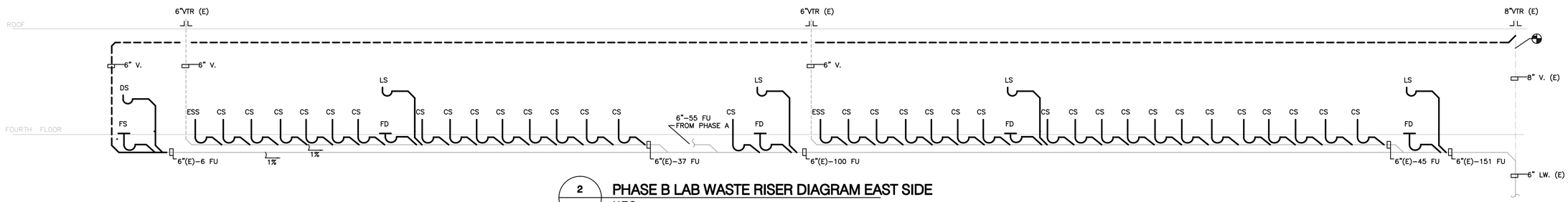


1 CLP002 PHASE A LAB WASTE RISER DIAGRAM
N.T.S.



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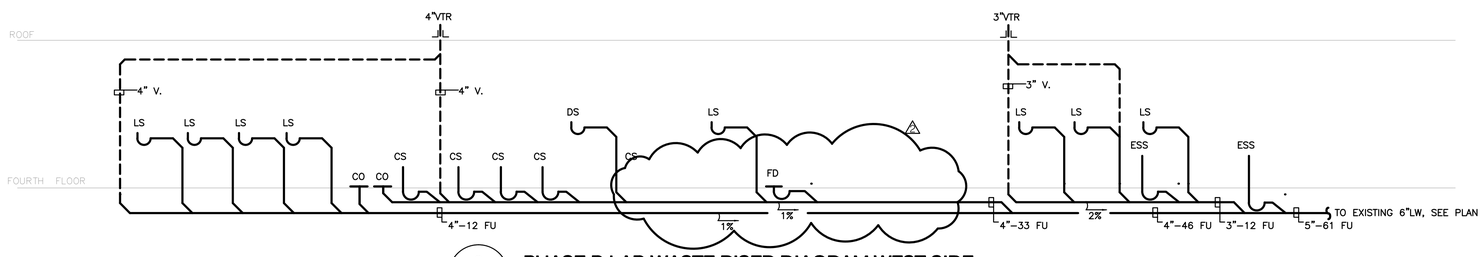

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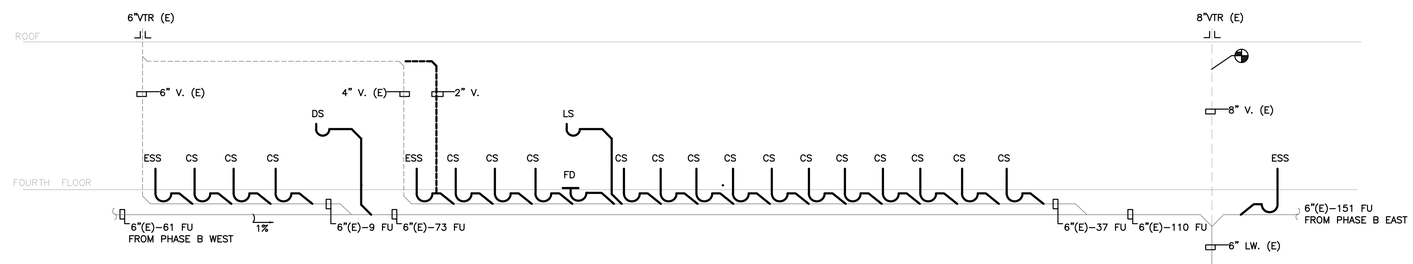

4 CLP002 PHASE C LAB WASTE RISER DIAGRAM
N.T.S.

REVISIONS

9/03/13 ADDENDUM #2 △2
8/26/13 ADDENDUM #1 △1
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

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FOURTH FLOOR PLUMBING LAB WASTE RISER DIAGRAM

DATE 8/11/2013

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PROJECT NUMBER 911

DRAWING NUMBER CLP-002

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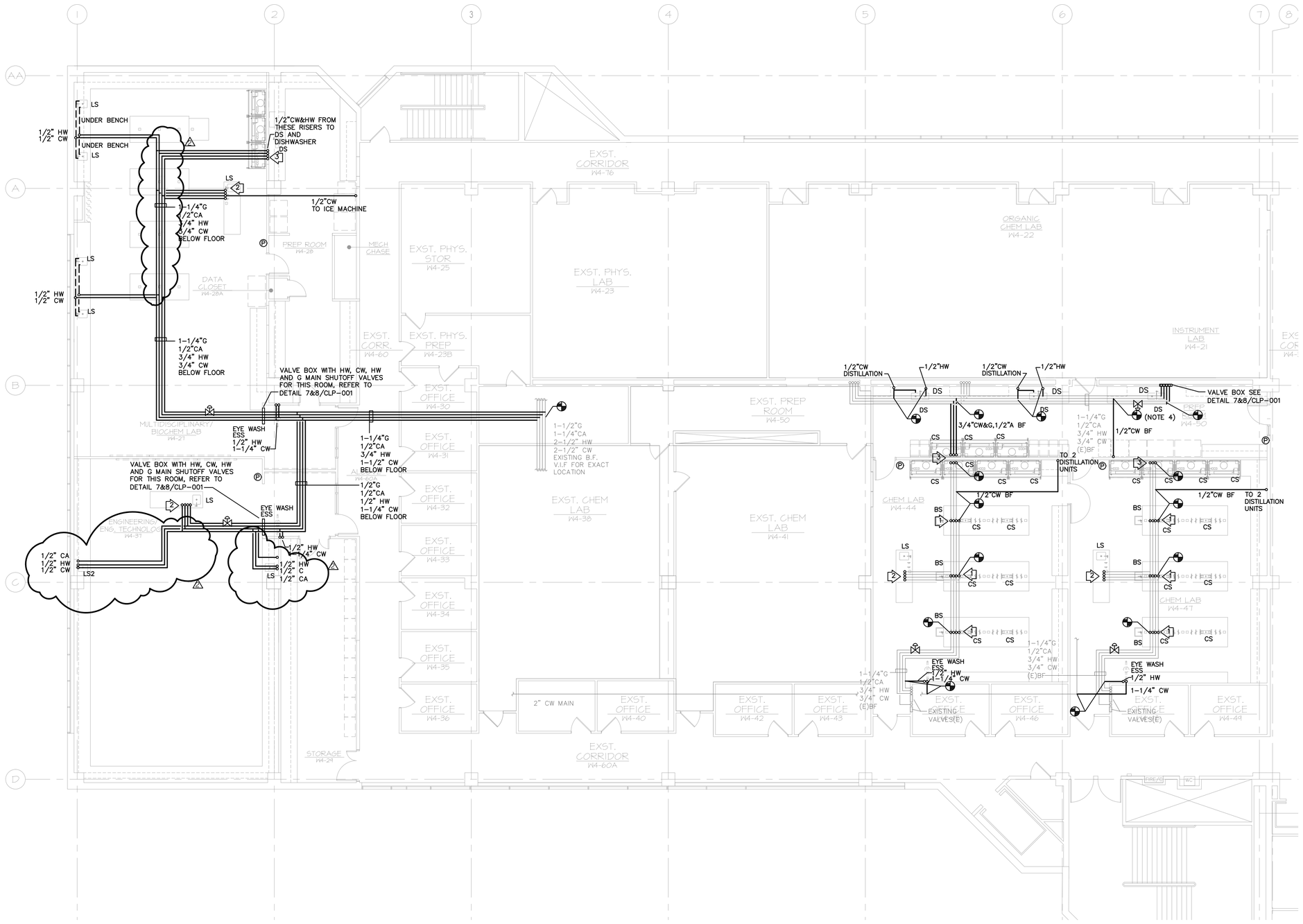

FLAG NOTES:

1. 3/4"G, 3/4"CW, 3/4"HW AND 1/2"CA RISE FROM MAINS BF (SHOWN ON DRAWING) CONNECT TO BENCH DECK MOUNTED HW, CW, GAS, AND COMPRESSED AIR VALVES. REFER TO DETAIL 1/CLP-001. BENCH DECK MOUNTED VALVES PROVIDED BY GC. INSTALLED BY THIS CONTRACTOR. ON EACH BENCH, PROVIDE PIPE CONNECTS TO:
   - TWO CUP SINKS: TECHLAB REAIN CUPSINK RS-0505. COORDINATE WITH COUNTERTOP OPENING WITH GC (DRAIN CONNECTION ONLY)
   - EIGHT HOT&COLD MIXING FAUCETS WITH 8" GOOSENECK SPOUT: TECHLAB FM8-412 OR EQUAL (1/2" HW AND CW)
   - FOUR DECK MOUNTED GAS DOUBLE VALVES
   - FOUR DECK MOUNTED COMPRESSED AIR DOUBLE VALVES
   - ONE BENCH END SINK VALVE
2. 1/2"G, 1/2"CW&HW AND 1/2" CA RISE FROM UTILITY BELOW TO VALVES AND NOZZLES ON TEACHER'S WORK STATION. PROVIDE PIPE CONNECTIONS TO:
   - ONE STAINLESS STEEL SINK: TECHLAB SS-1919. COORDINATE WITH COUNTERTOP OPENING WITH GC.
   - ONE HOT&COLD MIXING FAUCETS WITH 8" GOOSENECK SPOUT: TECHLAB FM8-412 OR EQUAL (1/2" HW AND CW)
   - ONE DECK MOUNTED GAS DOUBLE VALVES
   - ONE DECK MOUNTED COMPRESSED AIR DOUBLE VALVES
3. 3/4"G, 3/4"CW, AND 1/2"CA RISE FROM MAINS BF (SHOWN ON DRAWING) CONNECT TO FUME HOOD MANUFACTURER PROVIDED CW, GAS, AND COMPRESSED AIR VALVES. SIMILAR TO DETAIL 1/CLP-001. IN EACH HOOD, PROVIDE PIPE CONNECTS TO:
   - ONE FAUCET 1/2" CW, AND ONE CUP SINK
   - ONE COMPRESSED AIR NOZZLE 1/2" A WITH VALVE
   - ONE GAS NOZZLE 1/2" WITH VALVE
4. 3/4"CW, 3/4"HW RISE FROM MAINS BF (SHOWN ON DRAWING) CONNECT TO BENCH DECK MOUNTED HW, CW, VALVES. REFER TO DETAIL 1/CLP-001. BENCH DECK MOUNTED VALVES PROVIDED BY GC. INSTALLED BY THIS CONTRACTOR. ON EACH BENCH, PROVIDE PIPE CONNECTS TO:
   - TWO CUP SINKS: TECHLAB REAIN CUPSINK RS-0505. COORDINATE WITH COUNTERTOP OPENING WITH GC (DRAIN CONNECTION ONLY)
   - FOUR HOT&COLD MIXING FAUCETS WITH 8" GOOSENECK SPOUT: TECHLAB FM8-412 OR EQUAL (1/2" HW AND CW) (BENCH AT NORTH END HAS 6 FAUCETS.)

VALVES SHALL BE PROPERLY LABELED BY MANUFACTURER. PROVIDE LABEL AND IDENTIFICATION WITH SHOP DRAWING FOR APPROVAL. REFER TO ARCHITECTURAL DRAWING FOR VALVE, NOZZLE AND FIXTURE LOCATION.

(P) NEW EMERGENCY GAS SHUT-OFF PUSH BUTTON, MANUALLY RESET

NEW SOLENOID GAS VALVE, NORMALLY OFF FOR EMERGENCY GAS SHUTDOWN

1 CHEMICAL LAB PHASE B PLUMBING WATER PLAN
SCALE: 1/8"=1'-0"

REVISIONS

9/03/13 ADDENDUM #2 2
8/26/13 ADDENDUM #1 1
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

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CHEMICAL LAB RENOVATION PHASE B PLUMBING WATER PLAN

DATE 8/11/2013

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DRAWING NUMBER CLP-104.B

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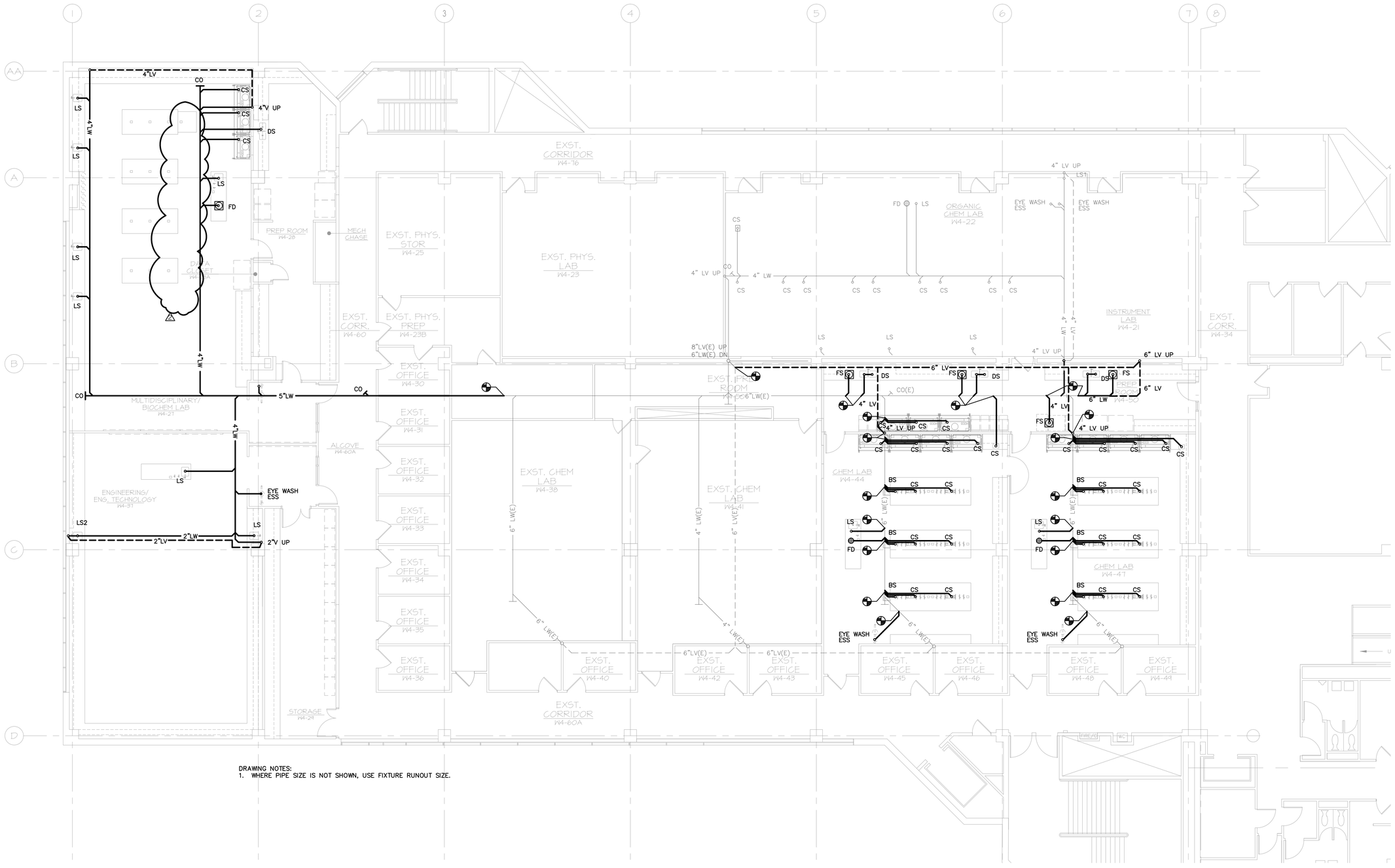

DRAWING NOTES:
1. WHERE PIPE SIZE IS NOT SHOWN, USE FIXTURE RUNOUT SIZE.

1 CHEMICAL LAB PHASE B PLUMBING WASTE PLAN
SCALE: 1/8"=1'-0"

0 2' 4' 8'

REVISIONS

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CHEMICAL LAB RENOVATION PHASE B PLUMBING WASTE PLAN

DATE 8/11/2013

SCALE AS NOTED

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DRAWING NUMBER CLP-204.B

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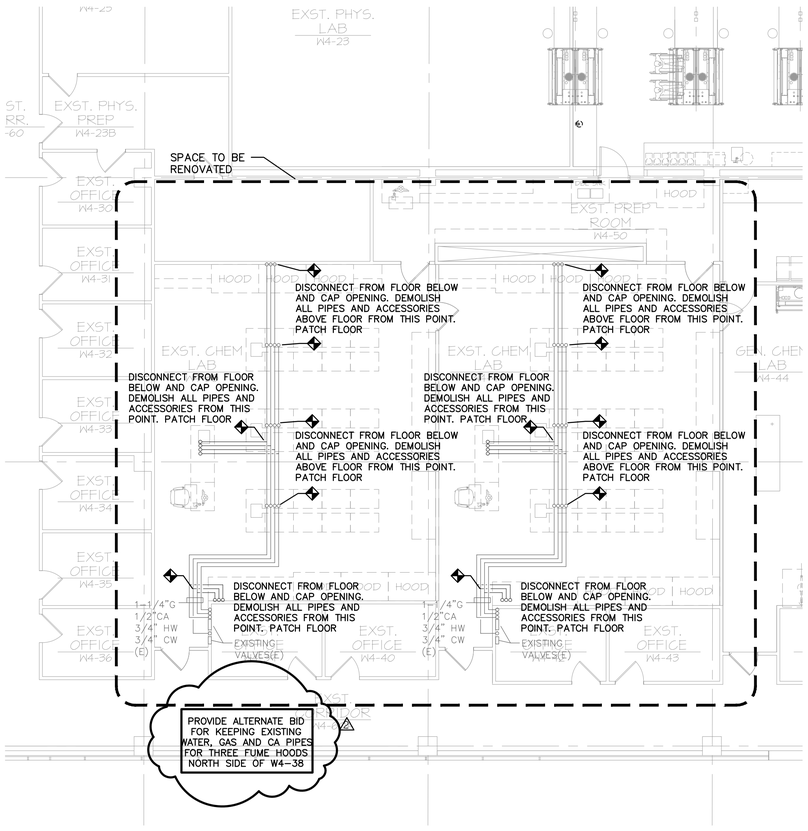
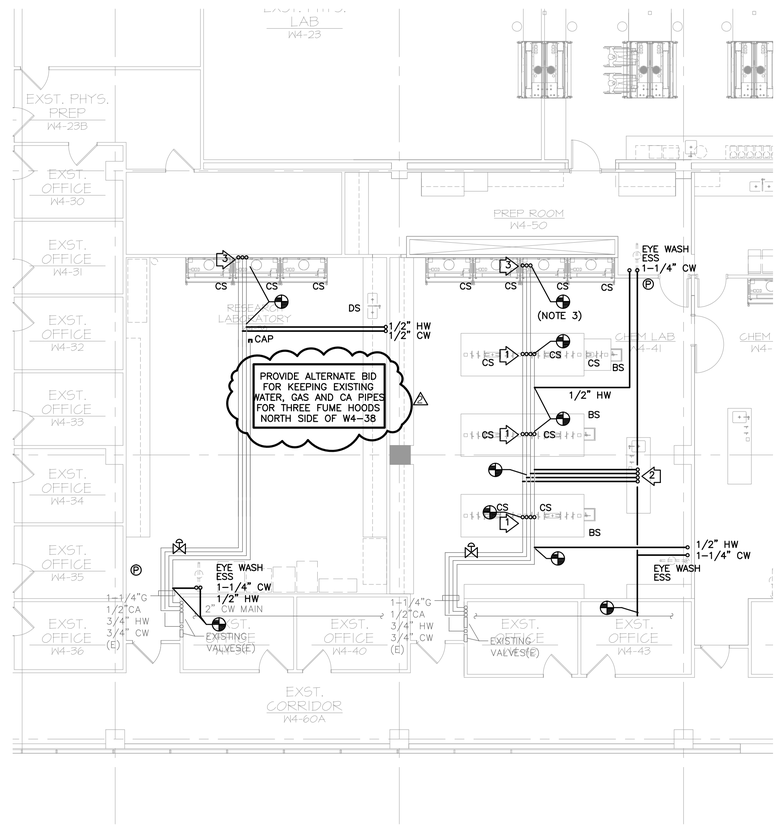


1 CHEMICAL LAB PHASE C PLUMBING WATER DEOMLITION PLAN

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

0 2' 4' 8'



2 CHEMICAL LAB PHASE C PLUMBING WATER PLAN

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

0 2' 4' 8'

FLAG NOTES:

1. 3/4"G, 3/4"CW, 3/4"HW AND 1/2"CA RISE FROM MAINS BF (SHOWN ON DRAWING) CONNECT TO BENCH DECK MOUNTED HW, CW, GAS, AND COMPRESSED AIR VALVES. REFER TO DETAIL 1/CLP-001. BENCH DECK MOUNTED VALVES PROVIDED BY GC. INSTALLED BY THIS CONTRACTOR. ON EACH BENCH, PROVIDE PIPE CONNECTS TO:
   - TWO CUP SINKS: TECHLAB REAIN CUPSINK RS-0505. COORDINATE WITH COUNTERTOP OPENING WITH GC (DRAIN CONNECTION ONLY)(NORTH END BENCH HAS THREE CS)
   - EIGHT HOT&COLD MIXING FAUCETS WITH 8" GOOSENECK SPOUT: TECHLAB FM8-412 OR EQUAL (1/2" HW AND CW)(NORTH END BENCH HAS TEN FAUCETS)
   - FOUR DECK MOUNTED GAS DOUBLE VALVES (NORTH END BENCH HAS 5 VALVES)
   - FOUR DECK MOUNTED COMPRESSED AIR DOUBLE VALVES (NORTH END BENCH HAS 5 VALVES)
   - ONE BENCH END SINK VALVE
2. 1/2"G, 1/2"CW&HW AND 1/2" CA RISE FROM UTILITY BELOW TO VALVES AND NOZZLES ON TEACHER'S WORK STATION. PROVIDE PIPE CONNECTIONS TO:
   - ONE STAINLESS STEEL SINK: TECHLAB SS-1919. COORDINATE WITH COUNTERTOP OPENING WITH GC.
   - ONE HOT&COLD MIXING FAUCETS WITH 8" GOOSENECK SPOUT: TECHLAB FM8-412 OR EQUAL (1/2" HW AND CW)
   - ONE DECK MOUNTED GAS DOUBLE VALVES
   - ONE DECK MOUNTED COMPRESSED AIR DOUBLE VALVES
3. 3/4"G, 3/4"CW, AND 1/2"CA RISE FROM MAINS BF (SHOWN ON DRAWING) CONNECT TO FUME HOOD MANUFACTURER PROVIDED CW, GAS, AND COMPRESSED AIR VALVES. SIMILAR TO DETAIL 1/CLP-001. IN EACH HOOD, PROVIDE PIPE CONNECTS TO:
   - ONE FAUCET 1/2" CW, AND ONE CUP SINK
   - ONE COMPRESSED AIR NOZZLE 1/2" A WITH VALVE
   - ONE GAS NOZZLE 1/2" WITH VALVE

VALVES SHALL BE PROPERLY LABELED BY MANUFACTURER. PROVIDE LABEL AND IDENTIFICATION WITH SHOP DRAWING FOR APPROVAL. REFER TO ARCHITECTURAL DRAWING FOR VALVE, NOZZLE AND FIXTURE LOCATION.

(P) NEW EMERGENCY GAS SHUT-OFF PUSH BUTTON, MANUALLY RESET

NEW SOLENOID GAS VALVE, NORMALLY OFF FOR EMERGENCY GAS SHUTDOWN

REVISIONS

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CHEMICAL LAB RENOVATION PLUMBING WATER PHASE C PLANS

DATE 8/11/2013

SCALE AS NOTED

DRAWN BY

CHECKED BY

PROJECT NUMBER 911

DRAWING NUMBER CLP-104.C

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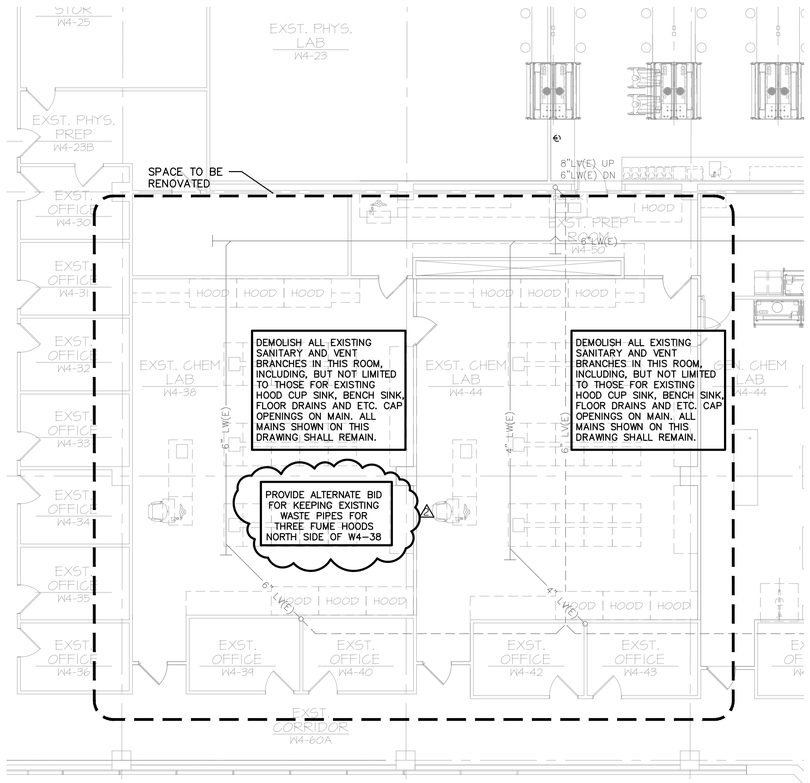
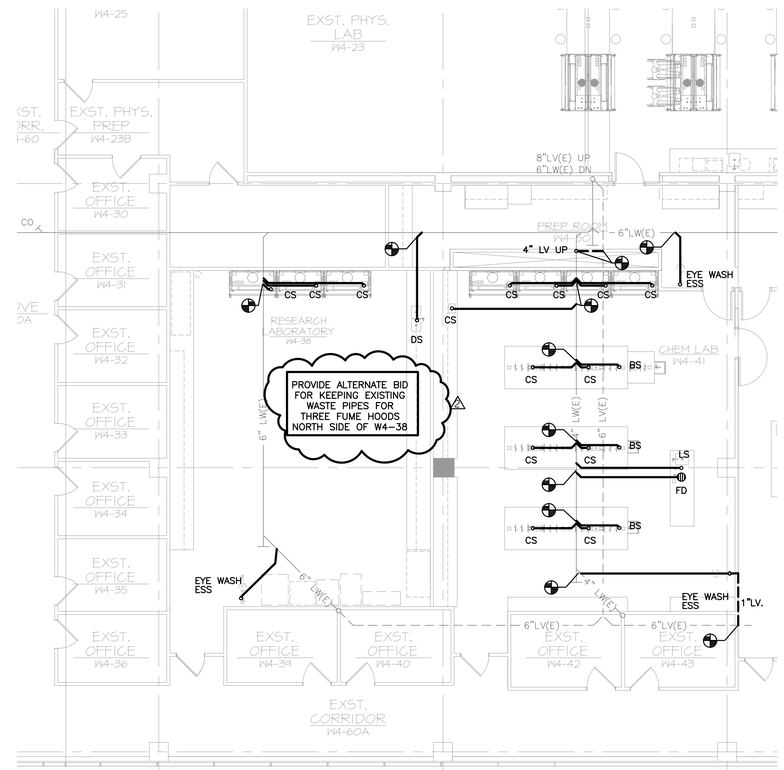


1 CHEMICAL LAB PHASE C PLUMBING WASTE DEOMLITION PLAN

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

0 2' 4' 8'



DRAWING NOTES:
1. WHERE PIPE SIZE IS NOT SHOWN, USE FIXTURE RUNOUT SIZE.

2 CHEMICAL LAB PHASE C PLUMBING WASTE PLAN

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

0 2' 4' 8'

REVISIONS

9/03/13 ADDENDUM #2 2
8/26/13 ADDENDUM #1 1
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
YONGZHONG JIA
ENGINEER
NO.PE060355

FOURTH FLOOR RENOVATIONS

(WEST BUILDING RENOVATION)

COMMUNITY COLLEGE OF PHILADELPHIA

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DRAWING TITLE

CHEMICAL LAB RENOVATION PLUMBING WASTE PHASE C PLANS

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PROJECT NUMBER 911

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SPECIFICATIONS

GENERAL

THE ENTIRE INSTALLATION, INCLUDING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM TO ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, COUNTY, STATE AND FEDERAL AUTHORITIES AND SHALL ALSO BE IN COMPLIANCE WITH THE LATEST EDITIONS OF THE LIFE SAFETY CODE, THE STANDARD BUILDING CODE, UNDERWRITERS LABORATORIES, THE NATIONAL ELECTRICAL CODE, NFPA 70, 90A, AND 96.

IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE, FINISHED, TESTED, ADJUSTED AND OPERATIONAL ELECTRICAL SYSTEM. ANY APPARATUS, MATERIAL, WORK OR INCIDENTAL ITEMS REQUIRED TO MAKE THE SYSTEM COMPLETE AND READY FOR OPERATION SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S PROPOSAL WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS.

THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY ARE INTENDED TO CONVEY THE SCOPE OF WORK AND TO INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT, CONDUIT, ETC. THE ELECTRICAL CONTRACTOR MUST OBTAIN APPROVED CONSTRUCTION DRAWINGS FROM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY WORK.

THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND LICENSES PERTAINING TO HIS WORK.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MECHANICAL WORK WITH OTHER TRADES SO AS TO PROVIDE THE SYSTEM AS DESCRIBED.

THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN ELECTRICAL PROPOSAL A ONE YEAR GUARANTEE-WARRANTY ON ALL INSTALLED EQUIPMENT AND MATERIALS. THIS GUARANTEE-WARRANTY IS TO INCLUDE ALL LABOR, MATERIAL, PARTS, ETC. NECESSARY TO MAINTAIN THE SYSTEM IN SATISFACTORY OPERATION FOR A PERIOD OF ONE YEAR STARTING FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE OWNER.

DESCRIPTION OF WORK

THE WORK INCLUDES THE PROVIDING OF ALL LABOR, MATERIAL, EQUIPMENT, ACCESSORIES, SERVICES AND TESTS NECESSARY TO COMPLETE AND MAKE READY FOR OPERATION BY THE OWNER ALL ELECTRICAL WORK, AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. DEMOLITION OF OBSOLETE WIRE, REPCTS, AND TETE/DATA JACKS.
2. PROVISION OF BRANCH CIRCUIT WIRING AND RACEWAYS.
3. PROVISION OF NEW LIGHTING FIXTURES AND WIRING DEVICES.
4. PROVISION OF DATA COMMUNICATIONS SYSTEM JACKS AND CABLES CABLE HOME RUN TO EXISTING MDF RACK IN IT ROOM. PROVIDE NECESSARY EXTENSION MODULE TO EXISTING MDF RACK.
5. ADD, REPLACE AND RELOCATE PANEL BOARDS
6. ALL CUTTING AND PATCHING.
7. TESTING.

CODE REGULATIONS

ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE AMENDMENT. ALL MATERIAL SHALL BE UNDERWRITERS LABELED. THE CONTRACTOR SHALL PROCURE ALL NECESSARY CERTIFICATES FOR WORK INSTALLED BY HIM, PAY ALL FEES AND CHARGES CONNECTED THEREWITH AND DELIVER ALL CERTIFICATES AND INSPECTION APPROVALS TO THE OWNER THROUGH THE ARCHITECT PRIOR TO FINAL ACCEPTANCE OF THE WORK.

EXISTING CONDITIONS

BIDDERS SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AND/OR PRESENT AREAS AFFECTED BY THIS WORK SO AS TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK.

IF DISCREPANCIES ARE NOTED BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS THE ARCHITECT SHALL BE NOTIFIED AND THE CONTRACTOR SHALL RECEIVE CLARIFICATION BEFORE SUBMITTING BID. THE SUBMISSION OF A PROPOSAL SHALL INDICATE THAT ALL CHARGES AND COSTS MADE NECESSARY BY EXISTING CONDITIONS ARE INCLUDED AND THAT THE COMPLETE SYSTEM AS DESCRIBED ABOVE WILL BE FURNISHED AT THE PROPOSED COST.

THE DRAWINGS SHOW THE APPROXIMATE LOCATIONS OF EXISTING ELECTRICAL WORK TO BE RETAINED AND ALSO THE APPROXIMATE LOCATIONS OF EXISTING ELECTRICAL WORK TO BE EXTENDED OR REMOVED. THE EXISTING CONDITIONS INDICATED ARE APPROXIMATE ONLY AND IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN DETERMINING THE SCOPE OF THE WORK.

SHOP DRAWINGS

THE ELECTRICAL CONTRACTOR SHALL PREPARE THREE (3) SETS OF AS-BUILT DRAWINGS OF THE PROJECT. THE THREE (3) SETS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.

THE ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK.

MATERIAL AND INSTALLATION

ALL MATERIAL USED SHALL BE NEW AND FREE FROM DEFECTS. ALL MATERIALS SHALL BE UL LISTED. MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, OR APPROVED EQUAL.

CONDUITS AND RACEWAYS

PROVIDE RACEWAYS, MINIMUM SIZE 3/4", OF TYPES REQUIRED BY N.E.C. AND IN GENERAL AS FOLLOWS:

WHERE PERMITTED BY CODE, USE METAL CLAD (MC) CABLE FOR SINGLE AND MULTI-PHASE PANEL FEEDERS AND BRANCH CIRCUITS.

CONDUIT INSTALLED OUTDOORS AND IN SLABS SHALL BE RIGID GALVANIZED STEEL CONDUIT. CONDUIT INSTALLED INDOORS SHALL BE EMT.

SHORT EXTENSIONS TO OUTLETS AND MOTORS SHALL BE IN FLEXIBLE STEEL PVC COATED LIQUID-TIGHT CONDUIT.

ALL RACEWAY BENDS SHALL BE OF THE LONG RADIUS TYPE.

DRAWINGS SHOW RACEWAY LOCATIONS DIAGRAMMATICALLY. RACEWAYS SHALL BE INSTALLED TO CONFORM TO CONDITIONS IN BUILDING, OFFSETTING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK, AND MAKING NECESSARY PROVISIONS TO FIT TO BUILDING AND MECHANICAL FEATURES INSTALLED. FURNISH AND INSTALL ALL FITTINGS AND SPECIAL DEVICES NECESSARY FOR THE PROPER INSTALLATION, CONNECTION AND OPERATION OF THE SYSTEM. CONDUIT ELBOWS SHALL BE OF THE SAME MAKE, QUALITY AND FINISH AS THE CONDUIT USED.

INSTALLATION ACCESSORIES

FURNISH AND INSTALL ALL INSERTS, HANGERS AND SUPPORTS REQUIRED FOR SUPPORTING CONDUITS, CABLES, JUNCTION BOXES, FIXTURES, WIRING DEVICES AND SIMILAR MATERIAL AND EQUIPMENT. ALL HORIZONTAL AND VERTICAL RUNS OF CONDUIT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. VERTICAL DROPS TO MOTORS AND EQUIPMENT SHALL BE SUPPORTED BY THE CEILING STRUCTURE AND A 1" CONDUIT EXTENSION TO THE FLOOR. ANCHOR TO FLOOR WITH FLANGE FITTINGS. UNI-STRUT SUPPORTS MAY ALSO BE USED FOR THIS PURPOSE.

INDIVIDUAL CONDUITS ONE-INCH (1") AND SMALLER SHALL BE SECURED WITH ONE HOLE MALLEABLE IRON PIPE STRAPS AND SCREWS AND INSERTS. EXPANSION FITTINGS SHALL BE WATERTIGHT, SEISMICALLY QUALIFIED, CORROSION RESISTANT, THREADED FOR AND COMPATIBLE WITH RIGID CONDUIT AND SHALL INCLUDE INTERNAL FLEXIBLE METAL BRAID SIZED TO GUARANTEE CONDUIT GROUND CONTINUITY AND FAULT CURRENTS IN ACCORDANCE WITH UL 467 AND THE NEC TABLES FOR GROUND CONDUCTORS. JACKET SHALL BE FLEXIBLE, CORROSION RESISTANT, WATERTIGHT, MOISTURE & HEAT RESISTANT MOLDED RUBBER MATERIAL WITH STAINLESS STEEL JACKET CLAMPS.

SEALING FITTINGS SHALL BE STANDARD THREADED CONTINUOUS DRAIN TYPE. MATERIAL SHALL BE MALLEABLE IRON OR STEEL, ZINC OR CADMIUM PLATED.

FIREPROOFING

FIRE-PROOFING MATERIALS SHALL BE PROVIDED AS REQUIRED. FOR SEALING OF HOLES UP TO TWO INCHES IN DIAMETER IN FIRE RATED FLOORS RATED FLOORS AND WALLS, PROVIDE FIRE BARRIER PUTTY (3M TYPE 303 OR EQUAL) OR CAULK (3M TYPE CP 25 OR EQUAL). MATERIAL SHALL BE UL LISTED AS A WALL OPENING PROTECTIVE.

FOR OPENINGS THROUGH FIRE WALLS WHERE HOLES ARE LARGER THAN TWO INCHES IN DIAMETER, SEAL OPENINGS WITH A UL LISTED FIRE BARRIER PENETRATION SYSTEM (3M-TYPE 7904 OR EQUAL).

JUNCTION AND PULL BOXES

JUNCTION AND PULL BOXES SHALL BE INSTALLED WHERE INDICATED OR AS MAYBE REQUIRED FOR PULLING OR TAPPING CONDUCTORS.

OUTLET BOXES AS SPECIFIED BELOW MAY BE USED FOR JUNCTION AND PULL BOXES WHEREVER POSSIBLE. JUNCTION AND PULL BOXES IN EXPOSED WORK SHALL BE FITTED WITH BLANK STEEL SHEET.

ALL BOXES SHALL BE RIGIDLY FASTENED TO THE STRUCTURE ANS SHALL NOT DEPEND ON THE CONDUITS FOR SUPPORT.

OUTLETS, FITTINGS AND INSTALLATION

OUTLET BOX AND FITTINGS SHALL BE AS MANUFACTURED BY APPLETON, STEEL OUTLET BOXES SHALL BE MOUNTED PLUMB AND SECURELY FASTENED.

OUTLET BOXES SHALL BE SIZED PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

SURFACE MOUNTED OUTLET BOXES SHALL BE CAST TYPE WITH THREADED CONDUIT CONNECTIONS.

OUTLETS FOR EXTERIOR WORK, AND ALL FITTINGS REQUIRED FOR MAKING UP EXPOSED CONDUIT RUNS, SHALL BE CAST METAL WITH THREADED CAST HUBS INTEGRAL WITH FITTINGS OF SIZE AND TYPE MOST SUITABLE FOR THE OUTLET USE, FITTED WITH APPROPRIATE SHEET STEEL OR CAST METAL COVERS AND NEOPRENE COVER GASKET.

FLUSH MOUNTED BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED PRESSED STEEL. ALL COVER PLATE SHALL BE METAL AND BRUSHED NICKEL FINISH.

WIRING DEVICES

WALL SWITCHES SHALL BE LOCATED AS INDICATED ON DRAWINGS. SINGLE POLE WALL SWITCH SHALL BE 20A. 120-277 VOLT AC - HUBBELL No. 1221 OR APPROVED EQUAL. THREE-WAY SWITCH SHALL BE HUBBELL No. 1223 OR APPROVED EQUAL. FOUR-WAY SWITCH SHALL BE HUBBELL No. 1224 OR APPROVED EQUAL.

WALL RECEPTACLES FOR GENERAL PURPOSE SHALL BE LOCATED AS INDICATED ON DRAWINGS. ALL RECEPTACLES SHALL BE 20A. 125 VOLT AC

MANUAL MOTOR STARTER SHALL BE ALLEN BRADLEY BULLETIN 600 OR APPROVED EQUAL BY SQUARE D OR GENERAL ELECTRIC AND SHALL BE HORSEPOWER RATED AND VOLTAGE RATED FOR THE MOTOR LOAD, OPERATED BY SNAP SWITCH WITH ONE POLE PER PHASE AND WITH ONE THERMAL OVERLOAD RELAY FOR EACH POLE.

COVERPLATES FOR WALL SWITCHES AND RECEPTACLES SHALL BE ALMOND. EXTERIOR COVERPLATES SHALL BE WEATHER-PROOF.

SAFETY SWITCHES AND FUSES

SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. WHERE FUSED, EQUIP SWITCHES WITH "R" CLIPS.

EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS, FUSES SHALL BE OF THE DUAL ELEMENT TIME DELAY TYPE; UL CLASS K-5 WITH AN INTERRUPTING CAPACITY OF 200,000 AMPERES R.M.S. SYMMETRICAL.

FUSES SHALL HAVE VOLTAGE RATING COMPATIBLE WITH CIRCUIT IN WHICH THEY ARE INSTALLED.

PROVIDE THREE (3) SPARE FUSES OF EACH SIZE AND TYPE INSTALLED.

CONDUIT AND FITTINGS

ALL WIRING SHALL BE CONTAINED WITHIN A CONDUIT SYSTEM.

IT SHALL COMPLY WITH AND BE INSTALLED AS PER ALL APPLICABLE CODES AND TRADE STANDARDS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIZING, FILL, DE-RATING, SUPPORTING, BURIAL DEPTHS, FIRE STOPPING, AND ETC.

ALL PULL AND OR SPLICE BOXES WILL IDENTIFY THE CIRCUIT'S NUMBERS AND THE PANEL ID OF THE WIRES WITHIN THE BOX. THEY MUST ALSO BE ACCESSIBLE AFTER THE COMPLETION OF THE PROJECT.

RIGID CONDUIT SHALL BE THREADED GALVANIZED. GALVANIZED E.M.T. SHALL BE INSTALLED WITHIN BUILDINGS UTILIZING COMPRESSION TYPE COUPLINGS AND CONNECTORS. THESE FITTINGS SHALL BE UL LISTED AS WATERTIGHT AND OR CONCRETE TIGHT AS REQUIRED BY THE ENVIRONMENT THAT THEY ARE EXPOSED.

M/C CABLE AND OR GREENFIELD MAY BE USED ABOVE SUSPENDED CEILINGS TO FEED DEVICES OR EQUIPMENT. IT MAY ALSO BE USED WHERE FLEXIBILITY IS REQUIRED FOR VIBRATION OR SERVICEABILITY.

SEALTIGHT CONDUIT SHALL BE USED WHERE FLEXIBILITY IS REQUIRED AND ENVIRONMENT ARE AN ISSUE. (MOISTURE, CORROSION, ETC.)

P.V.C. CONDUIT (SCHEDULE 40 OR THICKER) SHALL BE USED IN ALL EARTH BURIALS AND WHERE CHEMICAL AND OR ENVIRONMENTAL CONCERNS DICTATE.

FIRE ALARM SYSTEM

1. FIRE ALARM SYSTEM IS EXISTING SYSTEM.
2. ADD AND RELOCATED SMOKE DETECTOR, AUDIO/VISUAL SIGNALING DEVICES AS REQUIRED PER LATEST CODE.
3. NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING CONTROL PANEL.
4. SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT AND SHALL BE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND ALL APPLICABLE CODES. WHERE PERMITTED BY CODE, TYPE 'FLP' CABLE MAY BE USED. CABLE SHALL BE PLENUM RATED.

PHASE RELATIONSHIP

CONNECT FEEDERS TO MAINTAIN PHASE RELATIONSHIP THROUGH SYSTEM. PHASE LEGS OF FEEDERS SHALL MATCH BUS OR CABLE ARRANGEMENTS IN EQUIPMENT TO WHICH THE FEEDERS ARE CONNECTED. COLOR CODING SHALL BE AS FOLLOWS:

208/120 VOLT
A - PHASE - BLACK   B - PHASE - RED   C - PHASE - BLUE

NEUTRAL CONDUCTORS SHALL BE WHITE FOR 208/120 VOLTS. EQUIPMENT GROUND WIRE SHALL BE GREEN.

DIRECTORY HOLDER SHALL CONSIST OF METAL FRAME WITH NON-BREAKABLE TRANSPARENT COVER AND TYPEWRITTEN LIST OF CIRCUITS.

CONDUCTORS AND CONDUCTOR INSTALLATION

INSTALL WIRE AND CABLE IN ACCORDANCE WITH THE NEC AND AS HEREINAFTER SPECIFIED. WIRE AND CABLE SHALL BE INSTALLED IN ACCORDANCE WITH NECA 'STANDARD OF INSTALLATION' AND MANUFACTURER'S WRITTEN INSTRUCTIONS UNLESS SUPERCEDED BY THESE SPECIFICATIONS. IN ALL CASES THE INSTALLATION SHALL BE IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.

ALL CONDUCTORS SHALL BE INSTALLED IN RACEWAY OR CABLE ASSEMBLY. WIRING SHALL BE INSTALLED IN CONDUIT AFTER CONDUIT SYSTEM HAS BEEN COMPLETED. EXISTING RACEWAYS MAY BE REUSED FOR NEW CONDUCTORS AFTER THE EXISTING CONDUCTORS HAVE BEEN REMOVED AND THE RACEWAY SYSTEM CLEANED OF ANY FOREIGN DEBRIS. WHERE POSSIBLE, EXISTING CONDUCTORS IN RACEWAY MAY BE REUSED, ONCE TESTED AND FOUND TO BE SAFE FOR THE APPLICATION.

THERE WILL BE NO SPLICES IN A FEEDER RUN.

TYPE THHN-THWN SHALL BE USED FOR BRANCH CIRCUIT WIRING.

ALL CONDUCTORS SHALL BE NEW, 600 VOLT INSULATED TYPE, COPPER. POWER CONDUCTORS SHALL BE No. 12 AWG MINIMUM; CONTROL WIRING SHALL BE No. 14 MINIMUM. CONDUCTORS SMALLER THAN No. 8 SHALL BE STRANDED. SOLID CONDUCTOR WIRES SHALL HAVE COLOR INSULATION AND STRANDED CONDUCTOR CABLES SHALL BE COLOR TAPED AT ALL PULL BOXES AND TERMINALS.

ALL CONDUCTORS SHALL BE COLOR CODED.

ALL SPLICING SHALL BE DONE IN OUTLET, PULL AND JUNCTION BOXES AND NOT IN CONDUIT OR EQUIPMENT CABINETS. ALL TAPS AND SPLICES FOR WIRES No. 8 AND SMALLER SHALL BE CONNECTED WITH SCOTCHLOK SPRING TYPE CONNECTORS (PRE-INSULATED).

THE GROUNDING TERMINALS OF ALL RECEPTACLES AND SWITCHES AND ALL NON-CURRENT CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRICAL EQUIPMENT SHALL BE GROUNDED BY AN INSULATED GREEN GROUND COPPER CONDUCTOR.

LIGHTING

LIGHTING FIXTURES SHALL BE PROVIDED AS SHOWN ON DRAWINGS. FIXTURES SHALL BE INSTALLED WITH ALL REQUIRED APPURTENANCES AND WITH NEW LAMPS. LIGHTING FIXTURES SHALL BE AS PER SCHEDULE ON DRAWINGS OR APPROVED EQUALS.

INSTALLATION

CONTRACTOR SHALL EXAMINE LOCATION WHERE THIS EQUIPMENT IS TO BE INSTALLED AND TAKE RESPONSIBILITY FOR PROPER AND TIMELY COMPLETION OF THE WORK. UPON COMPLETION OF INSTALLATION OF EQUIPMENT, AND AFTER CONNECTION OF POWER SOURCE, TEST EQUIPMENT TO DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. WHEN POSSSIBLE, FIELD CORRECT MALFUNCTIONING UNITS, THEN RETEST. REPLACE EQUIPMENT WHICH CANNOT BE SATISFACTORILY CORRECTED.

GROUNDS

THE CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY GROUNDING IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

INSPECTION OF MATERIALS

OBTAIN AND DELIVER A FINAL CERTIFICATE OF APPROVAL FROM APPLICABLE NEC INSPECTION AUTHORITY HAVING JURISDICTION. MAKE DELIVERY TO THE ARCHITECT FOR TRANSMITTAL TO OWNER UPON COMPLETION OF WORK AND BEFORE FINAL PAYMENT. PAY ALL CHARGES MADE BY THE INSPECTION AUTHORITY AND INCLUDE THEIR COST IN THE BID.

TESTS

FINAL TESTS AND INSPECTION SHALL BE HELD IN PRESENCE OF REPRESENTATIVE OF OWNER AND TO THEIR SATISFACTION. THE CONTRACTOR SHALL SUPPLY PERSONNEL AND REQUIRED AUXILIARY EQUIPMENT FOR THIS TESTING WITHOUT ADDITIONAL COST.

DEMOLITIONS

1. CONTRACTOR SHALL SURVEY AND VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR REPORTING UPON DISCOVERY ANY CONDITIONS THAT VARY FROM THE CONSTRUCTION DOCUMENTS OR A POSSIBLE CAUSE FOR A CHANGE IN THE WORK SCOPE TO THE OWNER AND ARCHITECT.
2. PRIOR TO PERFORMING ANY DEMOLITION ANYWHERE IN THE BUILDING, THE CONTRACTOR SHALL CONSULT WITH THE FACILITIES DEPARTMENT TO ALLOW THE FACILITIES DEPARTMENT TO REMOVE ANY EQUIPMENT THEY WISH TO SALVAGE FROM THE BUILDING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FACILITIES DEPARTMENT (OWNER) THE LEGAL DISCONNECTION OF ANY UTILITIES AS A RESULT OF EQUIPMENT REMOVAL.
3. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL CONSTRUCTION AND BUILDING SYSTEMS SHOWN TO REMAIN THROUGHOUT ALL PHASES OF DEMOLITION AND CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT / REPAIR OF ANY EXISTING CONSTRUCTION / BUILDING SYSTEMS THAT ARE DAMAGED AS A RESULT OF THE DEMOLITION AND / OR NEW CONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY UPON DISCOVERING ANY DAMAGE. A SCHEDULE TO REPAIR/ REPLACE THE DAMAGED ELEMENTS WITH NO INTERRUPTION TO THE ORIGINAL CONSTRUCTION SCHEDULE WILL BE PRESENTED TO THE OWNER AND ARCHITECT WITHIN THREE (3) BUSINESS DAYS OF THE DISCOVERY OF ANY DAMAGE..
4. CONTRACTOR SHALL PATCH ALL HOLES IN WALLS AND FLOORS RESULTING FROM REMOVAL OF CONDUIT/WIRING, ETC. ALL PATCHING WORK SHALL PROVIDE FIRE RATING AND FIRE STOPPING AT PARTITION AND FLOOR ASSEMBLIES AS REQUIRED BY BUILDING CODES AND THE CITY OF WEST CHESTER BUILDING INSPECTOR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ELECTRICAL DEMOLITION OF THE EXISTING AREAS AS REQUIRED AND AS DIRECTED BY THE ARCHITECT. THE CONTRACTOR MUST COMPLETELY REMOVE ALL EXISTING DEVICES, WIRING, ETC. AS PART OF THIS DEMOLITION. INACTIVE CONDUIT SHALL BE REMOVED AS MUST AS PRACTICAL AND CAPPED. THE CONTRACTOR SHALL PROVIDE FOR DEMOLITION AND REROUTE OF EXISTING CONDITIONS THAT MAY IMPEDE CONSTRUCTION OF NEW WORK. WHERE EXISTING ELECTRICAL WORK MUST BE REMOVED, DEVICES AND WIRE SHALL BE COMPLETELY REMOVED BACK TO POINT OF ORIGIN IN ELECTRICAL PANEL/SWITCHBOARD.
6. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
7. THE CONTRACTORS RESPONSIBLE FOR THE REMOVAL, IN ITS ENTIRETY OF ANY INACTIVE ELEMENTS FOUND DURING EXCAVATION; INCLUDING, BUT NOT LIMITED TO RECEPTACLES, LIGHTING FIXTURES, EMERGENCY AND EXIT SIGNS, WIRE/CONDUITS, PANELS, AND SWITCHBOARD. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND MAINTAINING THE INTEGRITY OF THE LOCATION OF EXISTING ACTIVE UTILITIES WITHIN THE AREA OF EXCAVATION. IF AN ACTIVE UTILITY IS COMPROMISED OR INTERFERED WITH BY THE CONTRACTOR AS A RESULT OF EXCAVATION, SELECTIVE DEMOLITION, OR NEW WORK, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING BOTH A TEMPORARY AND PERMANENT SOLUTION TO THE PROBLEM AD NO EXPENSE TO THE OWNER OR EXTENSION TO THE SCHEDULE.

GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITION. MAINTAIN HEADROOM AND SPACE CONDITIONS WITH PROJECT CRITERIA.
3. EXACT LOCATION OF LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN OR AS DIRECTED BY THE ARCHITECT.
4. ELECTRICAL CONTRACTOR SHALL DETERMINE CEILING TYPE PRIOR TO PURCHASE AND INSTALLATION OF LIGHTING FIXTURES, HEAT AND SMOKE DETECTORS, EXIT LIGHTS, OR ANY OTHER CEILING MOUNTED ELECTRICAL COMPONENTS AND COORDINATE ALL WORK WITH CEILING CONTRACTOR. ELECTRICAL WORK SHALL ALSO BE COORDINATED WITH LOCATION OF DIFFUSERS, SPRINKLER HEADS, DUCTS, PIPING AND OTHER MECHANICAL WORK.
5. WIRE COLOR CODING SHALL CONFORM TO CODE REQUIREMENTS. COLOR CODE MULTIPLE CONDUCTORS OF CONTROL AND SIGNAL CABLES PER IPCEA. COLOR CODING, ONCE ESTABLISHED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
6. LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS SHALL BE VERIFIED WITH INTERIOR DETAILS AND FINISHES AS SHOWN ON ARCHITECTURAL DRAWINGS. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIMS, PANELING, SUSPENDED CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER.
7. IN GENERAL JUNCTION AND PULL BOXES SHALL BE FLUSH MOUNTED IN FINISHED AREAS. WHERE NECESSARY, CONDUITS SHALL BE REROUTED OR OTHER ARRANGEMENTS MADE FOR CONCEALMENT. PULL BOXES SHALL BE PROVIDED AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. FOR EMPTY RACEWAY RUNS, PULL BOXES SHALL BE PROVIDED EVERY 100 FEET AND AS INDICATED. MAXIMUM OF 4-90⅛ CONDUIT BENDS SHALL NOT BE EXCEEDED. COVER OF ALL PULL BOXES SHALL BE ACCESSIBLE.
8. BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. WALL AND SWITCH OUTLETS SHALL BE ERECTED IN ADVANCE OF FIRRING AND FIREPROOFING. BOXES SHALL BE SECURED TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
9. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, SWITCH SHALL BE INSTALLED ON SIDE OPPOSITE HINGE. FINAL DOOR HINGE LOCATION SHALL BE VERIFIED IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
10. RACEWAYS, FITTINGS AND BOXES INSTALLED IN CONCRETE WORK SHALL BE CAREFULLY COORDINATED IN THE FIELD FOR LOCATION AND INTERFACING WITH CONNECTORS. ALL RACEWAYS AND OUTLETS LOCATED IN POURED IN PLACE CONCRETE WORK SHALL BE PROTECTED FROM THE ENTRANCE OF CONCRETE OR DEBRIS.
11. ALL SUPPORTS TO BUILDING STRUCTURES SHALL BE SECURED BY MEANS OF TOGGLES BOLTS ON HOLLOW MASONARY WALLS, EXPANSION SHIELDS OR INSERTS IN CONCRETE OR BRICK, MACHINE SCREWS ON METAL SURFACE, AND WOOD SCREWS ON WOOD CONSTRUCTION
12. HORIZONTAL RUNS OF METALLIC CONDUIT SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 10 FEET APART. RACEWAY RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL. EXPOSED RACEWAYS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
13. PANELS, JUNCTION BOXES AND PULL BOXES SHALL BE SUPPORTED INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
14. ALL ACCESS DOORS REQUIRED FOR ELECTRICAL WORK SHALL BE FURNISHED UNDER THE ELECTRICAL SECTION AND INSTALLED UNDER GENERAL CONSTRUCTION. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.
15. MOUNTING HEIGHTS OF DEVICES AND OUTLET BOXES SHALL BE AS DESCRIBED IN THE SPECIFICATIONS.
16. ALL DISCONNECT SWITCHES AND CIRCUIT BREAKERS IN FINISHED AREAS SHALL BE RECESSED IN WALL, SUBJECT TO APPROVAL OF THE ARCHITECT AND/OR ENGINEER.
17. NO ELECTRICAL RACEWAY SHALL BE INSTALLED WITHIN 6" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1" FROM PIPE COVER. WHERE 6" MINIMUM SEPARATION CANNOT BE MAINTAINED, APPROVED THERMAL INSULATION SHALL BE PROVIDED FOR RACEWAYS.
18. HORIZONTAL OR CROSS RUNS IN PARTITIONS OR WALLS ARE NOT PERMITTED. CONDUITS SHALL NOT BE INSTALLED IN PRECAST ROOF SLABS, IN 2" SLABS, OR IN TERRAZZO FLOOR FINISH.
19. EXPANSION FITTINGS WITH BONDING JUMPER SHALL BE PROVIDED WHERE CONDUITS EMBEDDED IN CONCRETE CROSS EXPANSION JOINTS. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF EXPANSION JOINTS.
20. SEPARATE RACEWAYS AND BOXES SHALL BE PROVIDED FOR CONDUCTORS OF NORMAL AND EMERGENCY SYSTEMS.
21. CONDUIT ENDS SHALL BE CUT SQUARE AND REAMED SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH HOMOGENIZED BLEND OF COLORED COPPER AND RUST CORROSION INHIBITANT PIPE COMPOUND SIMILAR TO "T & B" COPPERSHIELD. BUTT CONDUIT ENDS.
22. FINAL CONNECTIONS TO MOTOR TERMINAL BOXES, TRANSFORMER AND OTHER VIBRATING EQUIPMENT SHALL BE MADE WITH 'SEALTITE' FLEXIBLE CONDUIT; 3/4" MINIMUM WITH 50% SLACK. DO NOT FASTEN RACEWAYS TO MOTOR FOUNDATION.
23. SUFFICIENTLY LONG WIRE SLACK SHALL BE LEFT IN RUN TO MAKE FINAL CONNECTIONS. ALL EMPTY CONDUITS OVER 10 FEET LONG SHALL BE PROVIDED WITH MANILA OR SYNTHETIC FIBER ROPE PULL WIRE.
24. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER FOR CONSTRUCTION ACTIVITY INCLUDING BUT NOT LIMIT TO PROVIDING TEMPORARY PANEL FEEDER AND EXTENDED CORD. REMOVE TEMPORARY POWER EQUIPMENT AND DEVICES AFTER CONSTRUCTION. 2

REVISIONS

REVISIONS
9/03/13 ADDENDUM #2 (2)
8/26/13 ADDENDUM #1 (1)
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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ENGINEER
NO.PE060355

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DRAWING TITLE
ELECTRICAL SPECIFICATION SHEET

DATE
8/11/2013

SCALE
AS NOTED

DRAWN BY

CHECKED BY

PROJECT NUMBER
911

DRAWING NUMBER
CLE-001

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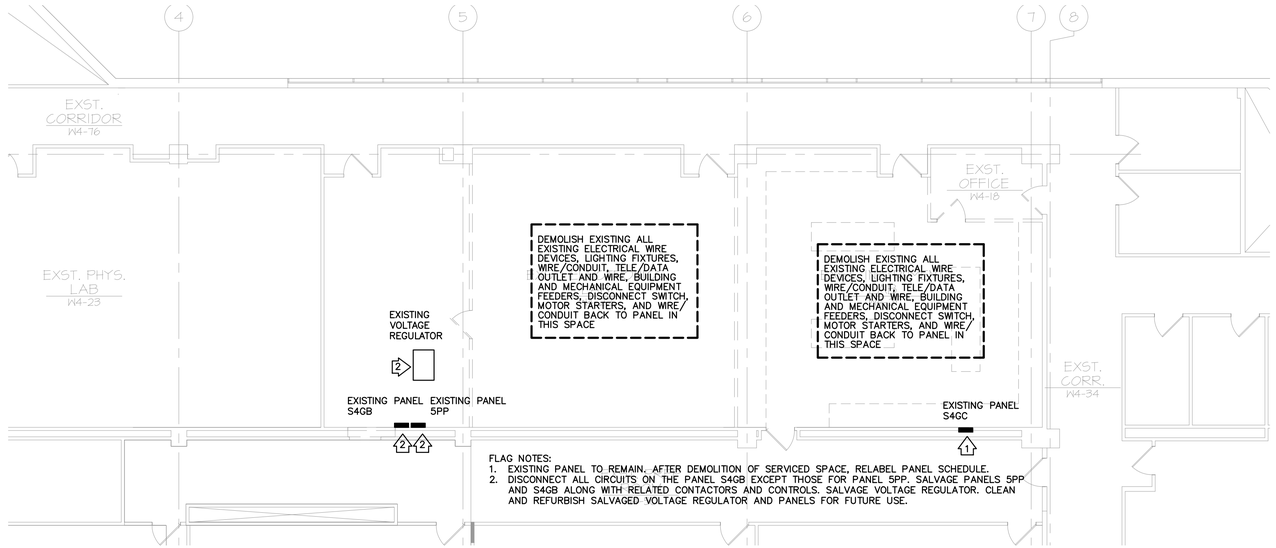


FLAG NOTES:
1. EXISTING PANEL TO REMAIN. AFTER DEMOLITION OF SERVICED SPACE, RELABEL PANEL SCHEDULE.
2. DISCONNECT ALL CIRCUITS ON THE PANEL S4GB EXCEPT THOSE FOR PANEL 5PP. SALVAGE PANELS 5PP AND S4GB ALONG WITH RELATED CONTACTORS AND CONTROLS. SALVAGE VOLTAGE REGULATOR. CLEAN AND REFURBISH SALVAGED VOLTAGE REGULATOR AND PANELS FOR FUTURE USE.

1 CHEMICAL LAB PHASE A ELECTRICAL DEMOLITION PLAN

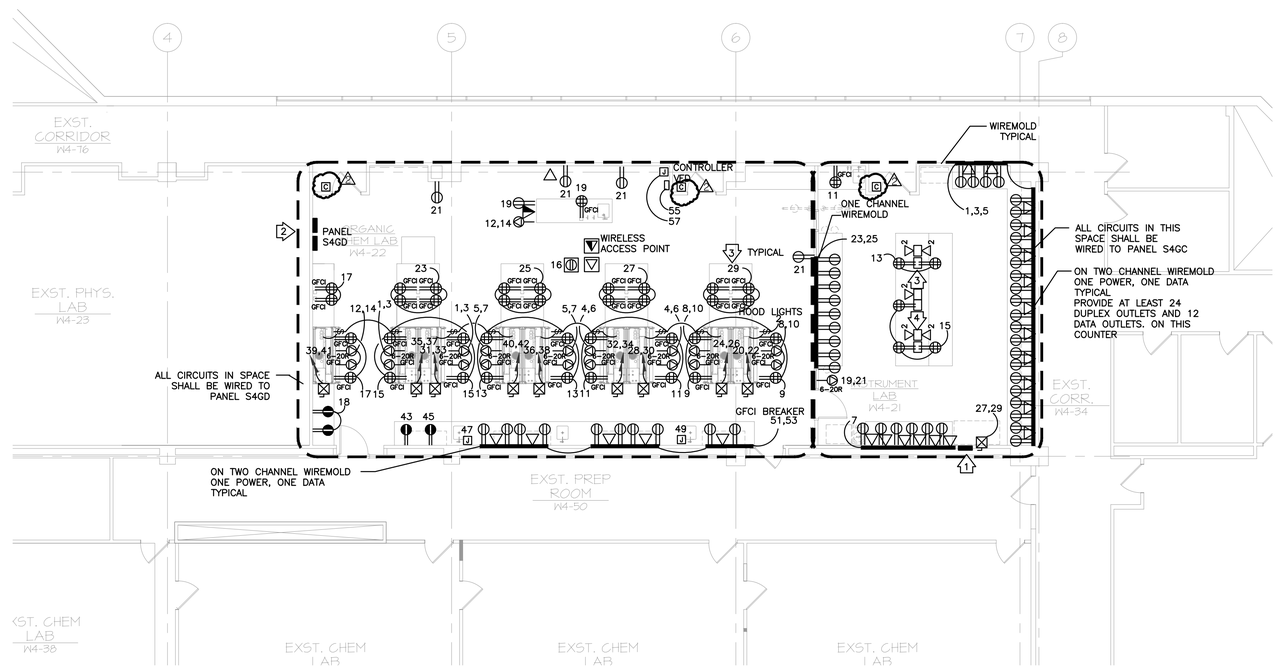
SCALE: 1/8"=1'-0"

0 2' 4' 8'

FLAG NOTES:
1. NEW PANEL TO REPLACE EXISTING PANEL WITH NEW FEEDERS. REFER TO SINGLE LINE DIAGRAM FOR NEW FEEDER SIZE AND SOURCE.
2. REPLACED EXISTING PANEL WITH NEW PANEL AS SCHEDULED. INSTALL NEW PANEL ON NEW LOCATION. EXTEND EXISTING FEEDER.
3. TOMBSTONE BOX ON BENCH WITH DOUBLE SIDE OPENING TO FIT TWO QUADRAPLEX RECPTS, TYPICAL FOR BENCH TOP RECPTS.
4. TOMBSTONE BOX ON BENCH WITH DOUBLE SIDE OPENING TO FIT TWO DATA OUTLET, TYPICAL FOR BENCH TOP DATA OUTLETS.

FIRE ALARM SYSTEM NOTES:
1. REPLACE EXISTING FIRE ALARM DEVICES IN SPACES TO BE RENOVATED. PROVIDE PRICE FOR REUSE EXISTING.

TELE/DATA NOTES:
1. REFER TO COVERSHEET FOR IT/TELE/COMM/CARD READER CABLING REQUIREMENT. CONTRACTOR SHALL HOME RUN REQUIRED CABLE(S) FROM DEVICE(S) TO IT ROOMAND LEAVE 10-FEET LOOP OF CABLE NEATLY COILED BEHIND PROPOSED MDF RACK. TYPED OUTLET IDENTIFICATION LABEL.



2 CHEMICAL LAB PHASE A ELECTRICAL POWER PLAN

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

0 2' 4' 8'

REVISIONS

9/03/13 ADDENDUM #2 2
8/26/13 ADDENDUM #1 1
8/16/13 ISSUE FOR PERMIT
8/15/13 ISSUE FOR BID

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CHEMICAL LAB RENOVATION PHASE A ELECTRICAL POWER PLANS

DATE 8/11/2013

SCALE AS NOTED

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DRAWING NUMBER CLE-104.A

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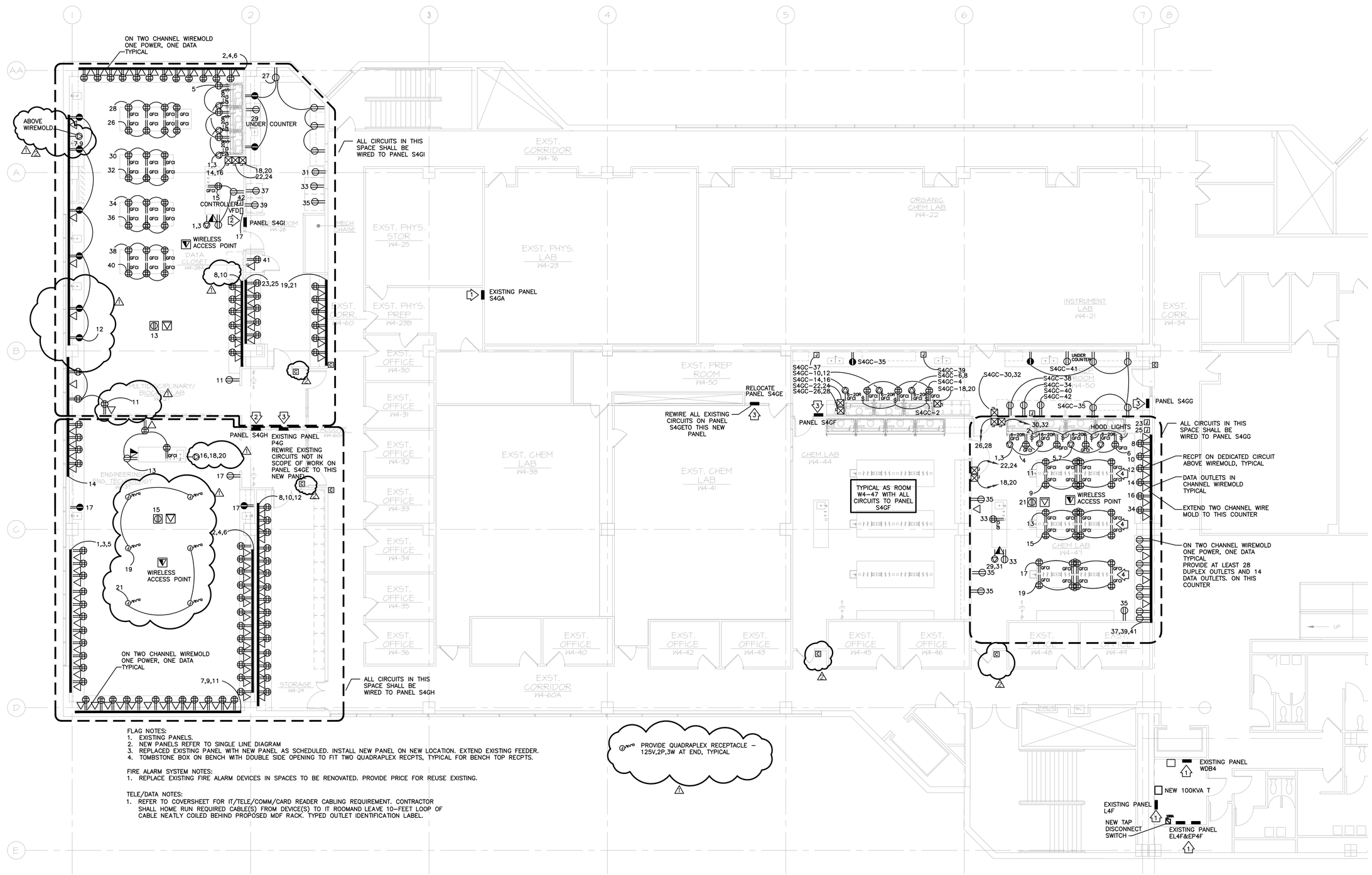

FLAG NOTES:
1. EXISTING PANELS.
2. NEW PANELS REFER TO SINGLE LINE DIAGRAM
3. REPLACED EXISTING PANEL WITH NEW PANEL AS SCHEDULED. INSTALL NEW PANEL ON NEW LOCATION. EXTEND EXISTING FEEDER.
4. TOMBSTONE BOX ON BENCH WITH DOUBLE SIDE OPENING TO FIT TWO QUADRAPLEX RECPTS, TYPICAL FOR BENCH TOP RECPTS.

FIRE ALARM SYSTEM NOTES:
1. REPLACE EXISTING FIRE ALARM DEVICES IN SPACES TO BE RENOVATED. PROVIDE PRICE FOR REUSE EXISTING.

TELE/DATA NOTES:
1. REFER TO COVERSHEET FOR IT/TELE/COMM/CARD READER CABLING REQUIREMENT. CONTRACTOR SHALL HOME RUN REQUIRED CABLE(S) FROM DEVICE(S) TO IT ROOMAND LEAVE 10–FEET LOOP OF CABLE NEATLY COILED BEHIND PROPOSED MDF RACK. TYPED OUTLET IDENTIFICATION LABEL.

1 CHEMICAL LAB PHASE B ELECTRICAL POWER PLAN

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

0 2' 4' 8'

REVISIONS

9/03/13 ADDENDUM #2 2
8/26/13 ADDENDUM #1 1
8/16/13 ISSUE FOR PERMIT
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CHEMICAL LAB RENOVATION PHASE B ELECTRICAL POWER PLAN

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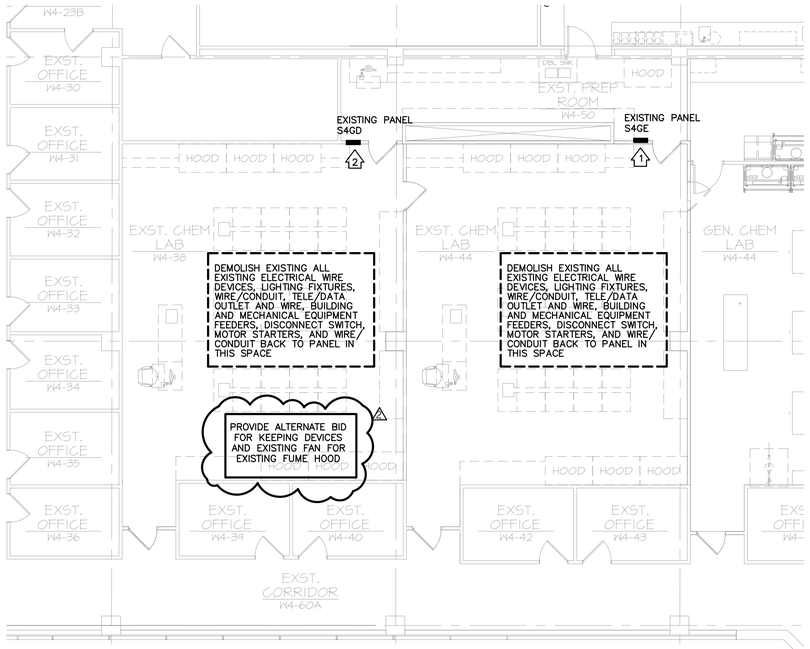
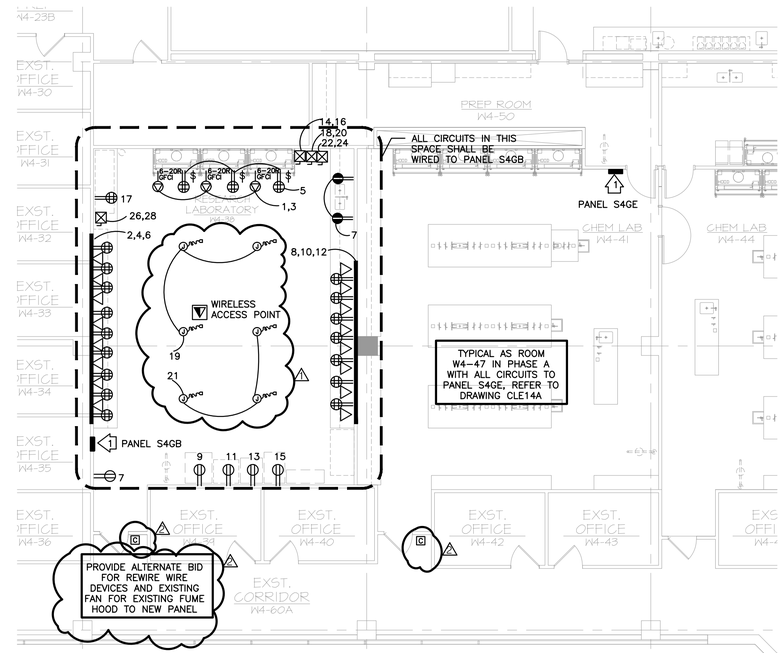


FLAG NOTES:
1. EXISTING PANEL TO REMAIN. AFTER DEMOLITION OF SERVICED SPACE, RELABEL PANEL SCHEDULE.
2. EXISTING PANEL TO BE REPLACED.

1 CHEMICAL LAB PHASE C ELECTRICAL DEOMLITION PLAN

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



FLAG NOTES:
1. REPLACED EXISTING PANEL WITH NEW PANEL AS SCHEDULED. INSTALL NEW PANEL ON NEW LOCATION. EXTEND EXISTING FEEDER.

FIRE ALARM SYSTEM NOTES:
1. REPLACE EXISTING FIRE ALARM DEVICES IN SPACES TO BE RENOVATED. PROVIDE PRICE FOR REUSE EXISTING.

TELE/DATA NOTES:
1. REFER TO COVERSHEET FOR IT/TELE/COMM/CARD READER CABLING REQUIREMENT. CONTRACTOR SHALL HOME RUN REQUIRED CABLE(S) FROM DEVICE(S) TO IT ROOMAND LEAVE 10-FEET LOOP OF CABLE NEATLY COILED BEHIND PROPOSED MDF RACK. TYPED OUTLET IDENTIFICATION LABEL.

PROVIDE QUADRAPLEX RECEPTACLE – 125V,2P,3W AT END, TYPICAL

2 CHEMICAL LAB PHASE C ELECTRICAL POWER PLAN

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

REVISIONS

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8/26/13 ADDENDUM #1
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CHEMICAL LAB RENOVATION ELECTRICAL POWER PHASE C PLANS

DATE 8/11/2013

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