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

WEST BUILDING | FOURTH FLOOR RENOVATIONS

ISSUE FOR BID | 15 AUGUST 2013

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

DRAWING SYMBOL LEGEND

SYMBOL DESIGNATIONS

- A-00 / NOTE / SHEET NO. — SECTION NO. / SECTION
- A-00 / NOTE / SHEET NO. — ELEVATION NO. / ELEVATION
- A-00 / NOTE / SHEET NO. — DETAIL NO. / DETAIL
- A — COLUMN GRID BUBBLE
- A — WALL TYPE
- 1 — BORROWED LIGHT NO.
- 0-0 — SIGN TYPE
- XXX — EQUIPMENT TAG
- 100 — DOOR NO.

MATERIAL DESIGNATIONS

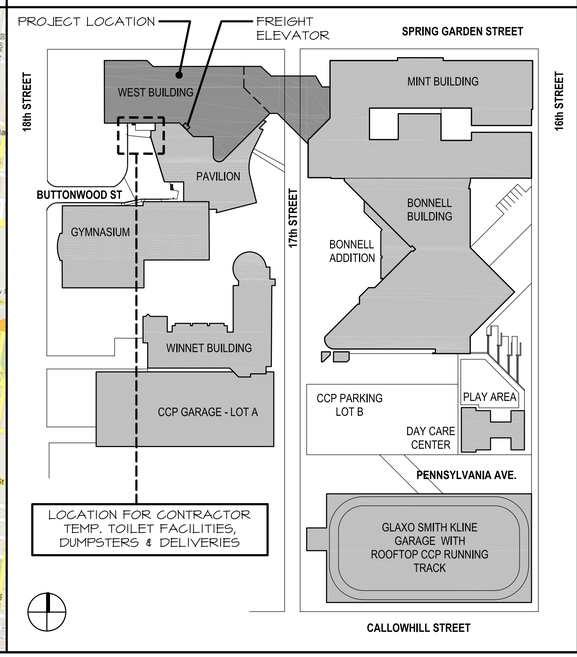
- CONCRETE
- BRICK
- STEEL
- WOOD BLOCKING
- PLYWOOD
- CONCRETE MASONRY UNIT
- GYPSUM WALLBOARD
- GUNNITE / SHOTCRETE
- EXISTING CONSTRUCTION

DRAWING DESIGNATIONS

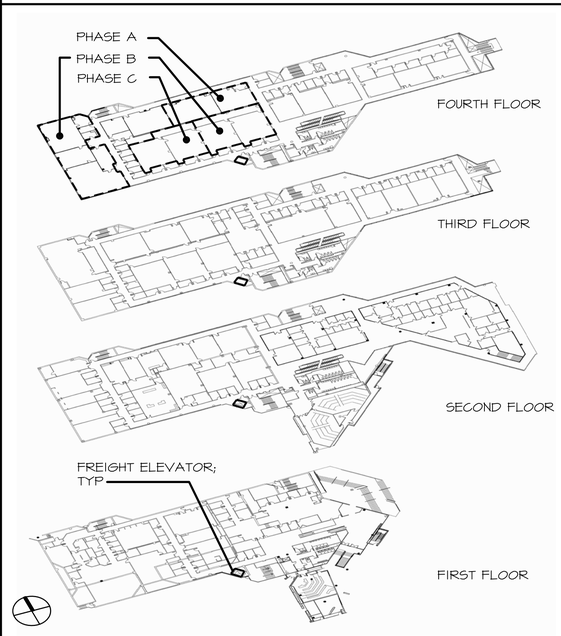
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- NEW WALL
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- NEW DOOR

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

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		8/15/13 - ISSUE FOR BID
GENERAL		
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CL-AD-104.B	FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE B	●
CL-AD-104.C	FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE C	●
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CL-A-555	CASEWORK DETAILS	●
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PLUMBING		
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CLE-104.B	CHEMICAL LAB RENOVATION PHASE B ELECTRICAL POWER PLAN	●
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CLE-301	ELECTRICAL SINGLE LINE DIAGRAM	●
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END OF DWG LIST		

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

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PHASE C EXTENT OF DEMOLITION

PHASE A EXTENT OF DEMOLITION

PHASE B EXTENT OF DEMOLITION

EXISTING ARCH LAB W4-27
EXISTING STORAGE W4-24
EXISTING OFFICE W4-25
EXISTING STORAGE W4-26
EXISTING ARCH LAB W4-28
EXISTING STORAGE W4-24
EXISTING ARCH LAB W4-31
EXST. CORRIDOR W4-16
EXST. PHYS. STOR W4-25
EXST. PHYS. LAB W4-23
EXST. PHYS. PREP W4-23B
EXST. OFFICE W4-30
EXST. OFFICE W4-31
EXST. OFFICE W4-32
EXST. OFFICE W4-33
EXST. OFFICE W4-34
EXST. OFFICE W4-35
EXST. OFFICE W4-36
EXST. OFFICE W4-39
EXST. OFFICE W4-40
EXST. CORRIDOR W4-60A
EXST. ELECTRONICS LAB W4-22
EXST. INSTRUMENT LAB W4-21
EXST. OFFICE W4-18
EXST. PREP ROOM W4-20
EXST. CHEM LAB W4-38
EXST. CHEM LAB W4-41
EXST. CHEM LAB W4-44
EXST. CHEM LAB W4-47
EXST. OFFICE W4-42
EXST. OFFICE W4-43
EXST. OFFICE W4-45
EXST. OFFICE W4-46
EXST. OFFICE W4-48
EXST. OFFICE W4-49
EXST. JAN. CLO W4-48
EXST. ELEC/TEL CLO. W4-36
EXST. JAN. CLO. W4-44
EXST. WOMEN'S TLT. W4-34
EXST. OFFICE W4-20
EXST. OFFICE W4-19
EXST. CORRIDOR W4-34
EXST. LOUNGE W4-2
EXST. OFFICE W4-13
EXST. OFFICE W4-14
EXST. OFFICE W4-15
EXST. SCI. DEMO W4-51
EXST. OFFICE W4-14
EXST. OFFICE W4-15
EXST. OFFICE W4-18
EXST. OFFICE W4-17
EXST. SCI. DEMO W4-51
EXST. OFFICE W4-22
EXST. OFFICE W4-21
EXST. OFFICE W4-20
EXST. SCI. DEMO W4-1
EXST. MEN'S TLT. W4-40
EXST. MEN'S TLT. W4-38
EXST. WOMEN'S TLT. W4-38
EXST. CORRIDOR W4-1
EXST. CONF. ROOM W4-25
EXST. DIV. OFFICES W4-24
EXST. OFFICE W4-26
EXST. OFFICE W4-27
EXST. OFFICE W4-28
EXST. OFFICE W4-29
EXST. OFFICE W4-30
EXST. OFFICE W4-31
EXST. CLASSROOM W4-4
EXST. CLASSROOM W4-8
EXST. CLASSROOM W4-7
EXST. CORRIDOR W4-16
EXST. STORAGE W4-32
EXST. CORRIDOR W4-35
ESCALATORS
UP
DN

1 CL-A-104.A
1 CL-A-104.B
1 CL-A-104.C

1 FOURTH FLOOR DEMOLITION PLAN AND PHASE DIAGRAM
CL-AD-004 1/16" = 1'-0"

0 2' 4' 10' 20'

PROJECT NORTH

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FOURTH FLOOR DEMOLITION PLAN AND PHASE DIAGRAM

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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

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

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 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 W4-37 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 W4-37 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 DRAWING.
19. ALTERNATE GT-1; DEMOLISH DOOR AND PARTITION AS REQ'D

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.
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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.
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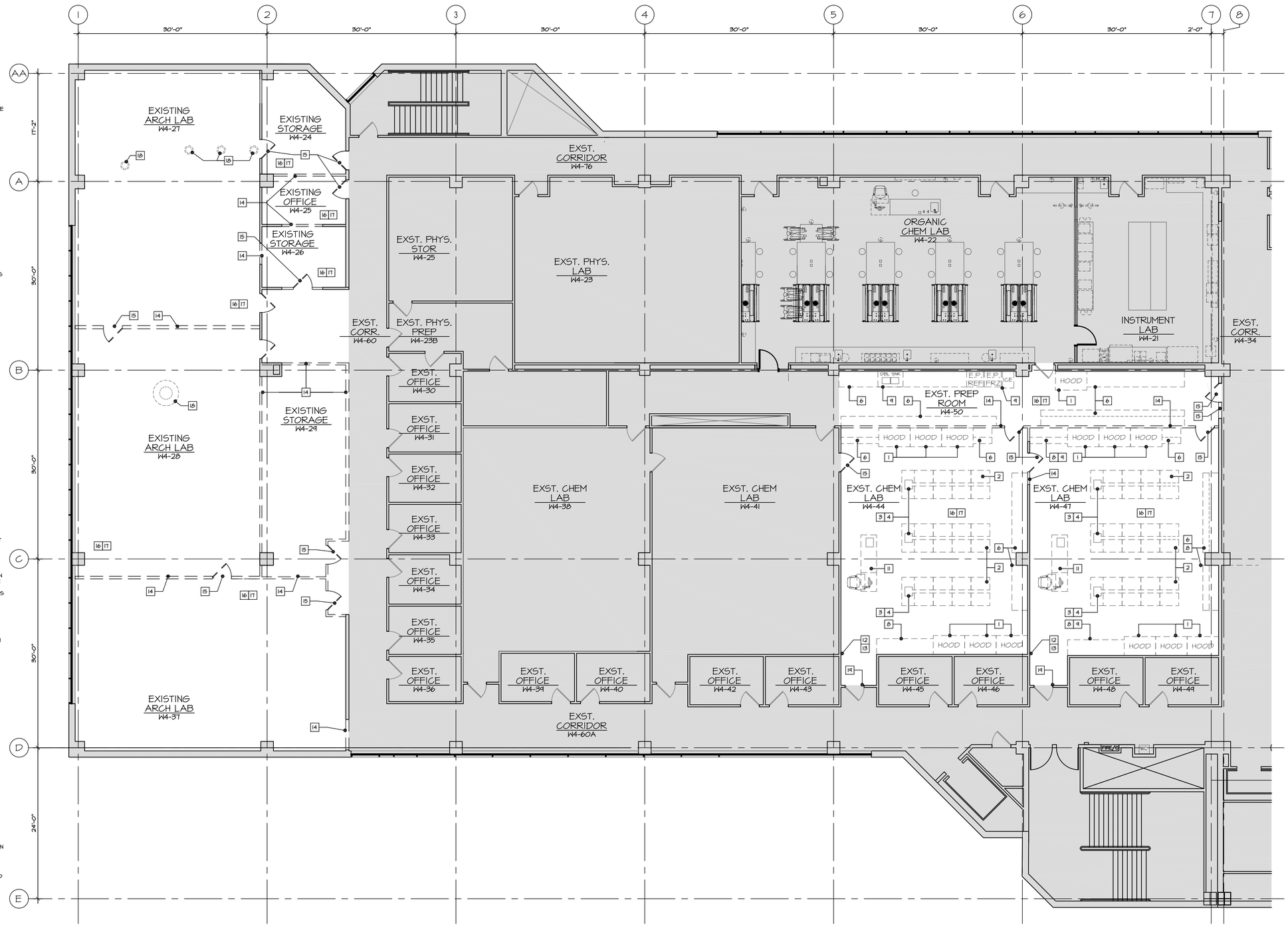

1 / CL-AD-104.B — FOURTH FLOOR SELECTIVE DEMOLITION PLAN - PHASE B

1/8" = 1'-0"

1' 4' 20'

0 2' 10'

PROJECT NORTH

REVISIONS

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
MARCH 14, 2013

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PROJECT NUMBER
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DRAWING NUMBER
CL-AD-104.B

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DEMOLITION KEY NOTES

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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 W4-37 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.
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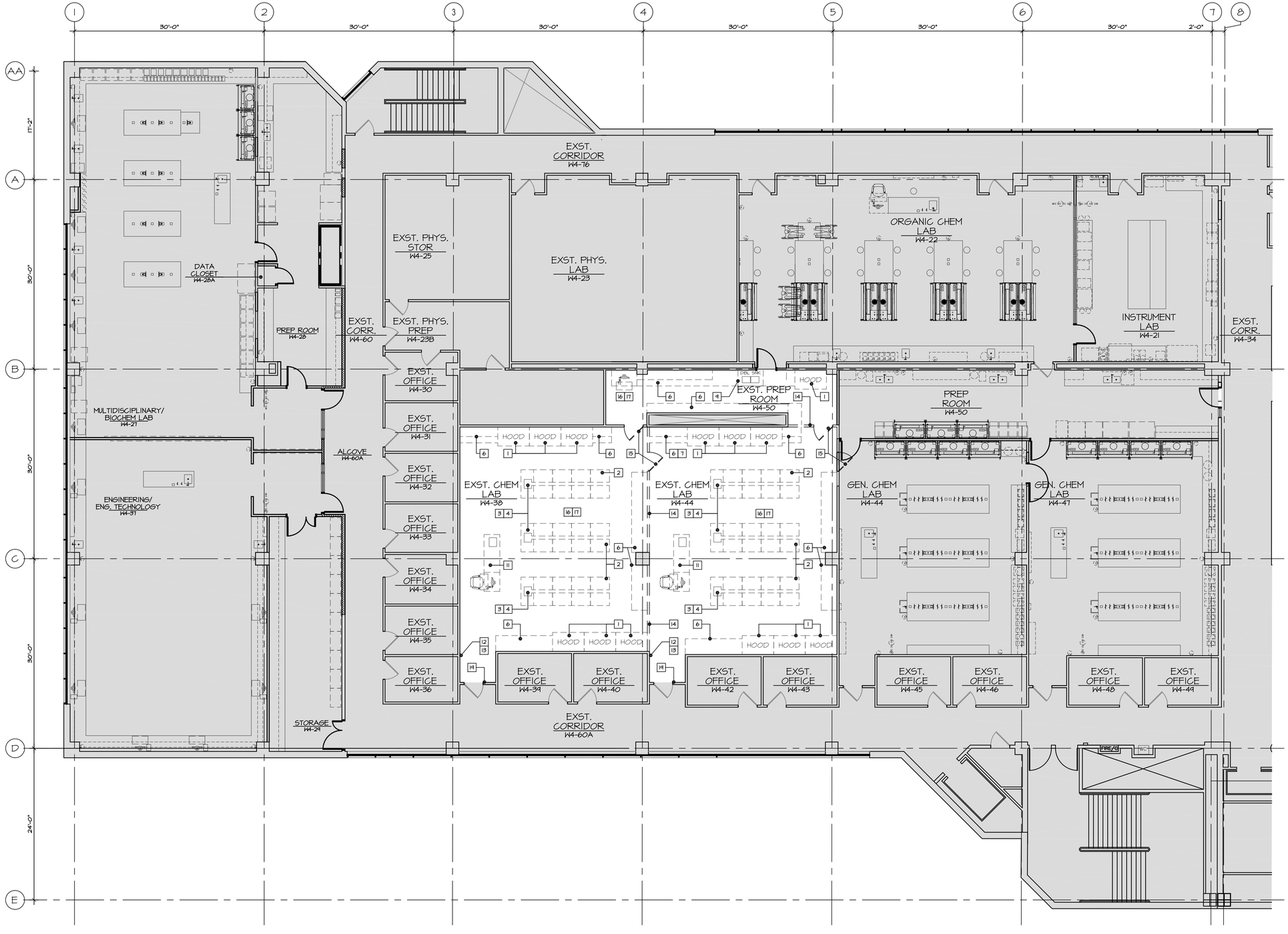

1 / CL-AD-104.C — SELECTIVE DEMOLITION PLAN - PHASE C

1/8" = 1'-0"

0 2' 10' 1' 4' 20'

PROJECT NORTH

REVISIONS

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

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PHASE C EXTENT OF WORK

PHASE A EXTENT OF WORK

PHASE B EXTENT OF WORK

MULTIDISCIPLINARY/ BIOCHEM LAB M4-27

PREP ROOM M4-28

DATA CLOSET M4-28A

MECH CHASE

EXST. PHYS. STOR M4-25

EXST. PHYS. LAB M4-23

EXST. CORRIDOR M4-16

EXST. PHYS. PREP M4-23B

EXST. CORRIDOR M4-60

EXST. OFFICE M4-30

EXST. OFFICE M4-31

EXST. OFFICE M4-32

EXST. OFFICE M4-33

EXST. OFFICE M4-34

EXST. OFFICE M4-35

EXST. OFFICE M4-36

ENGINEERING/ ENG. TECHNOLOGY M4-37

STORAGE M4-29

ENG. TECH M4-38

ORGANIC CHEM LAB M4-22

INSTRUMENT LAB M4-21

PREP ROOM M4-50

CHEM LAB M4-41

CHEM LAB M4-44

CHEM LAB M4-41

EXST. OFFICE M4-39

EXST. OFFICE M4-40

EXST. OFFICE M4-42

EXST. OFFICE M4-43

EXST. OFFICE M4-45

EXST. OFFICE M4-46

EXST. OFFICE M4-48

EXST. OFFICE M4-49

EXST. CORRIDOR M4-60A

EXST. JAN. CLO M4-48

EXST. ELEC/TEL CLO. M4-36

EXST. JAN. CLO. M4-49

EXST. WOMEN'S TLT. M4-34

EXST. OFFICE M4-20

EXST. OFFICE M4-19

EXST. CORRIDOR M4-34

EXST. LOUNGE M4-2

EXST. OFFICE M4-13

EXST. OFFICE M4-14

EXST. OFFICE M4-15

EXST. SCI. DEMO M4-51

EXST. OFFICE M4-19

EXST. OFFICE M4-18

EXST. OFFICE M4-17

EXST. SCI. DEMO M4-51

EXST. OFFICE M4-22

EXST. OFFICE M4-21

EXST. OFFICE M4-20

EXST. SCI. DEMO M4-1

EXST. MEN'S TLT. M4-40

EXST. MEN'S TLT. M4-38

EXST. WOMEN'S TLT. M4-38

EXST. CORRIDOR M4-1

EXST. CONF. ROOM M4-25

EXST. DIV. OFFICES M4-24

EXST. OFFICE M4-26

EXST. OFFICE M4-27

EXST. OFFICE M4-28

EXST. OFFICE M4-29

EXST. OFFICE M4-30

EXST. OFFICE M4-31

EXST. CLASSROOM M4-9

EXST. CLASSROOM M4-8

EXST. CLASSROOM M4-7

EXST. CORRIDOR M4-16

EXST. STORAGE M4-32

EXST. CORRIDOR M4-35

ESCALATORS

UP

DN

3'-0"

6'-0"

4'-6"

15'-0"

CL-A-104.A

CL-A-104.B

CL-A-104.C

1 A-004 FOURTH FLOOR PLAN AND PHASE DIAGRAM

1/8" = 1'-0"

0 2' 1' 4' 10' 20'

PROJECT NORTH

SIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

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FOURTH FLOOR PLAN AND PHASE DIAGRAM

MARCH 14, 2013

AS NOTED

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PROJECT NUMBER
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DRAWING NUMBER
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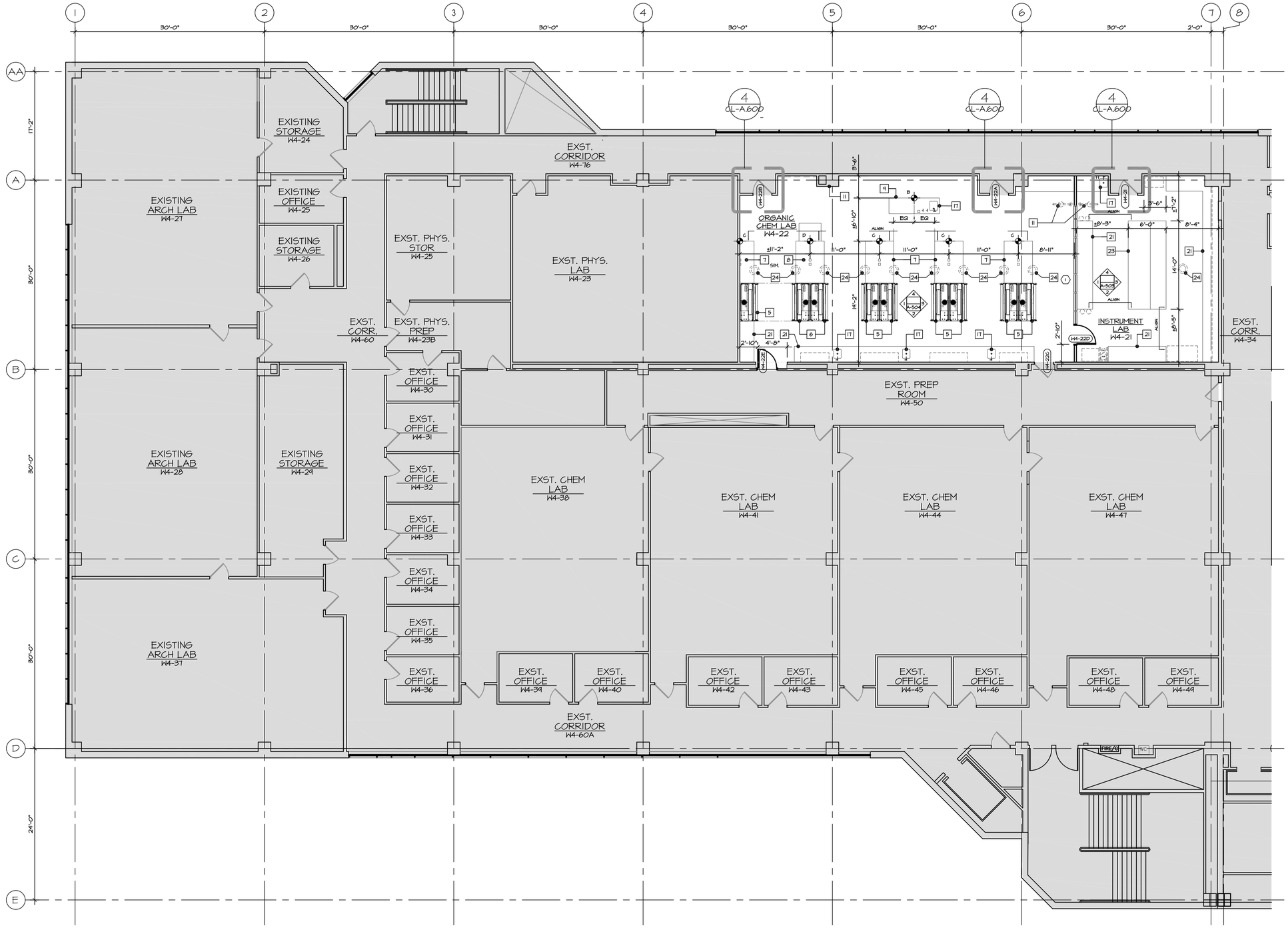
KEY NOTES

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. ±1'-6" X ±1'-6" UNO.

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 W4-24.
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 ST-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

8/15/13 ISSUE FOR BID

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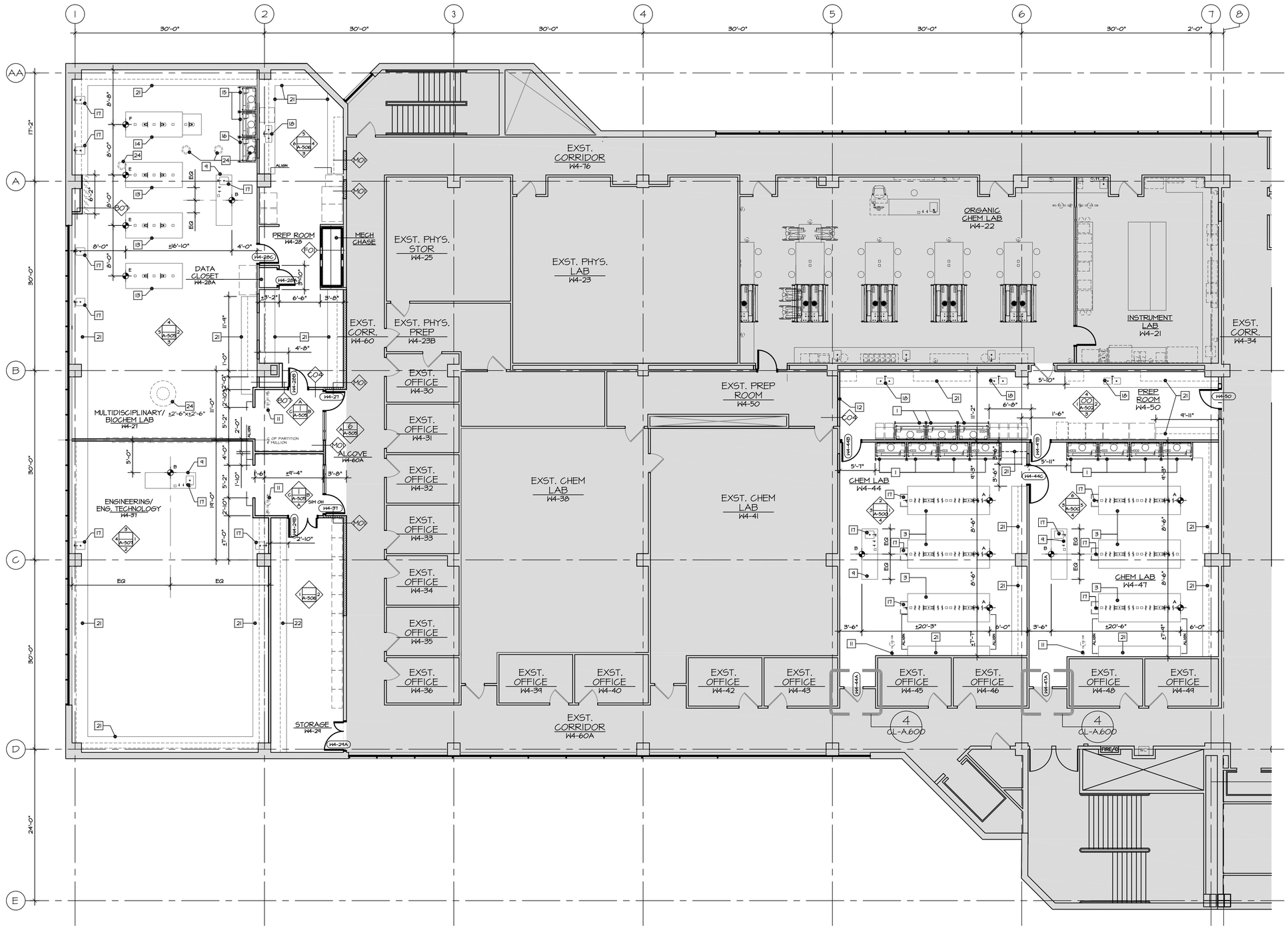
1. HOOD H001; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
2. HOOD H002; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
3. WOOD LAB CASEWORK GEN. CHEM. BENCH; REFER TO DRAWING 1/CL-A-550 & COORD. W/ ALL TRADES.
4. WOOD LAB CASEWORK GEN. CHEM. ADA BENCH; REFER TO DRAWING 1/CL-A-551 & COORD. W/ ALL 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. ±1'-6" X ±1'-6" UNO.

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.B FOURTH FLOOR PLAN - PHASE B
1/8" = 1'-0"

0 2' 1' 4' 10' 20'

PROJECT NORTH

REVISIONS

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 B

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

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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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.
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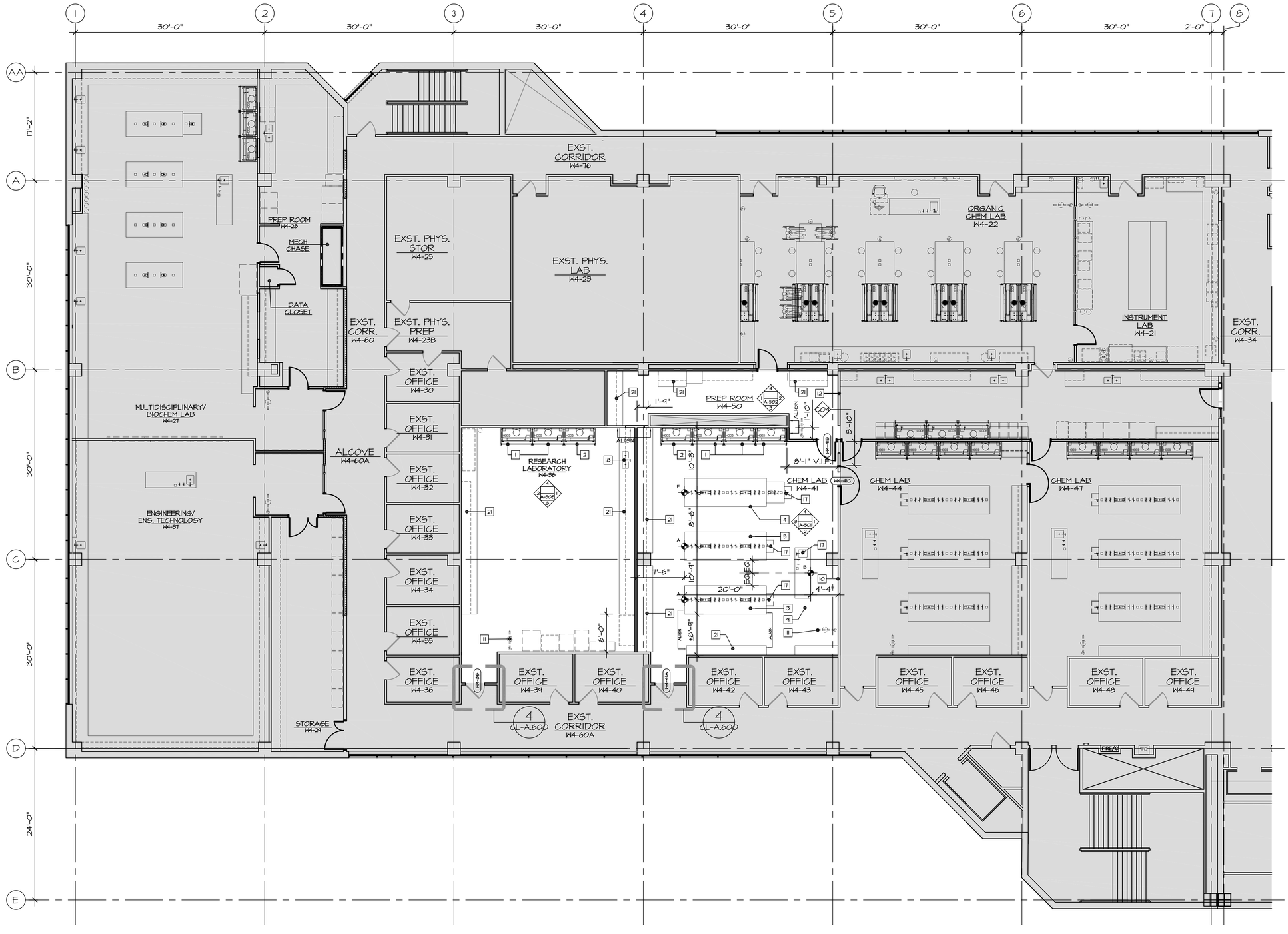
16. HOOD H008; REFER TO EQUIPMENT PLANS & COORD. W/ ALL TRADES.
17. UTILITY SINK (SINGLE BASIN); REFER TO PLUMBING DRAWINGS; COORD. W/ CASEWORK.
18. UTILITY SINK (DOUBLE BASIN); REFER TO PLUMBING DRAWINGS; COORD. W/ CASEWORK.
19. NOT USED.
20. NOT USED.
21. WOOD LAB CASEWORK; TYP.
22. EXISTING WOOD LAB 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.

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"

0 2' 1' 4' 10' 20'

PROJECT NORTH

REVISIONS

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

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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NOTES

1. THIRD FLOOR REFLECTED CEILING PLAN SHOWN FOR REFERENCE AND COORDINATION ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS TO THE EXTENT REQUIRED FOR THE PROPOSED WORKS.

1 THIRD FLOOR EXISTING REFLECTED CEILING PLAN
CL-A-403 1/8" = 1'-0"

1' 4' 20'
0 2' 10'

PROJECT NORTH

REVISIONS

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
THIRD FLOOR REFLECTED CEILING PLAN

DATE JULY 19, 2013

SCALE AS NOTED

DRAWN BY AME

CHECKED BY ASC

PROJECT NUMBER 911

DRAWING NUMBER CL-A-403

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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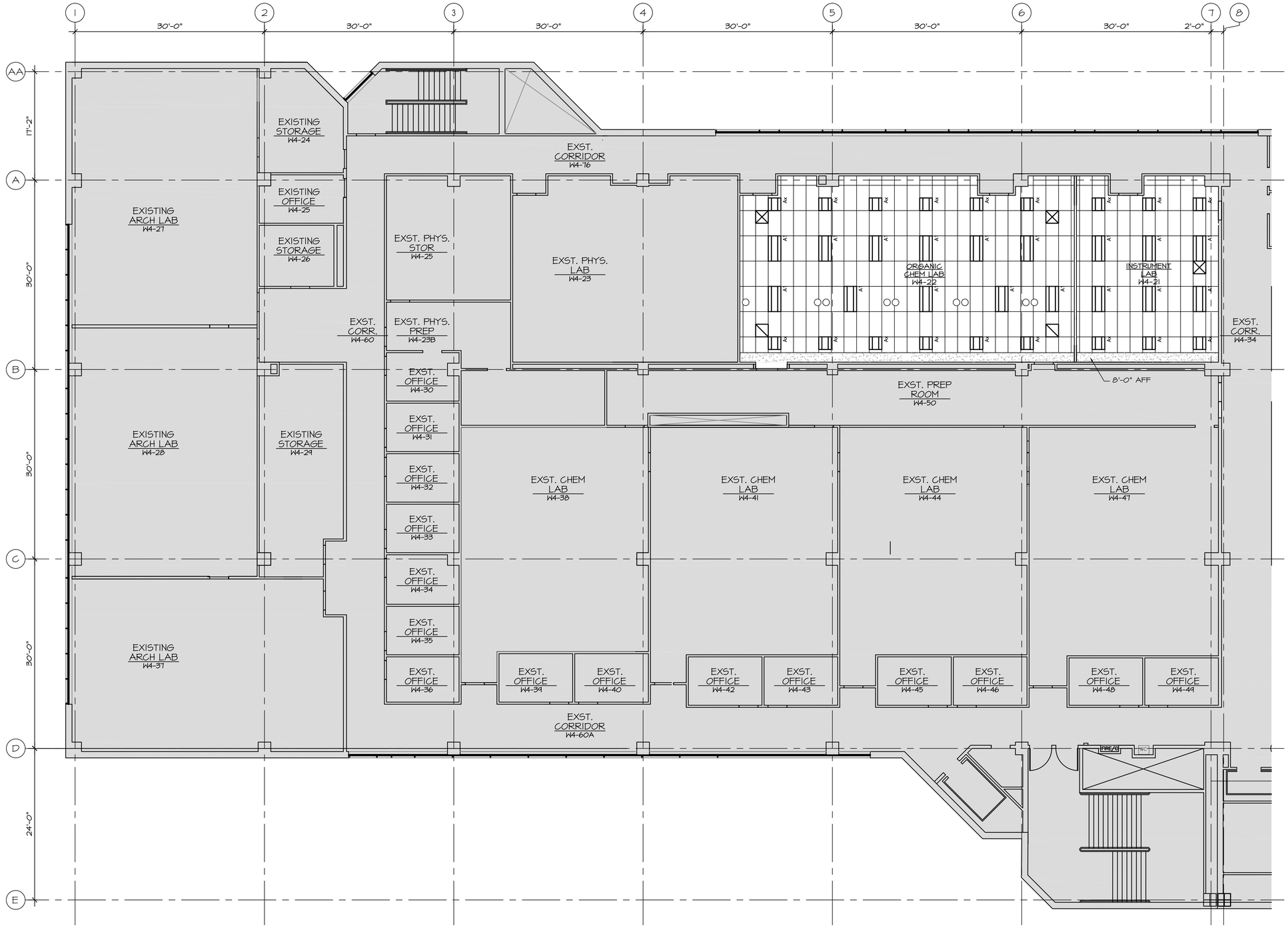
KEY:

- A1 — 2'x4' RECESSED DIRECT/INDIREDCT SIDE MOUNT FLUORESCENT FIXTURE; REFER TO ELEC DWG
- AX — 2'x2' RECESSED DIRECT/INDIREDCT SIDE MOUNT FLUORESCENT FIXTURE; REFER TO ELEC DWG
- EXIT FIXTURE - WALL MOUNTED
- EXIT FIXTURE - CEILING MOUNTED
- 2'X4' ACOUSTIC CEILING TILE REFER TO FINISH SCHEDULE
- GWB CEILING; PTD
- C2 — LOW PROFILE LED DOWNLIGHT
- P1 — CEILING MOUNTED RETRACTABLE POWER CORD AND REEL
- DUCT OPENING FOR HOOD EXHAUST; TYP.

GENERAL NOTES:

1. ALL CEILING 9'-0" AFF UNO.
2. COORDINATE CEILING LAYOUT WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS.
3. COORDINATE CEILING FINISHES WITH FINISH SCHEDULE.
4. REFER TO 2/CLA-610 FOR TYPICAL CEILING MOUNTED RETRACTABLE POWER CORD AND REEL DETAIL.



1 CL-A-404.A — FOURTH FLOOR REFLECTED CEILING PLAN - PHASE A

1/8" = 1'-0"

0 2' 10' 1' 4' 20'

PROJECT NORTH

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

WEST BUILDING RENOVATIONS

Community College of Philadelphia

1700 SPRING GARDEN ST
PHILADELPHIA, PA 19130

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Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE: FOURTH FLOOR REFLECTED CEILNING PLAN - PHASE A

DATE: MARCH 14, 2013

SCALE: AS NOTED

DRAWN BY: AME

CHECKED BY: ASC

PROJECT NUMBER: 911

DRAWING NUMBER: CL-A-404.A

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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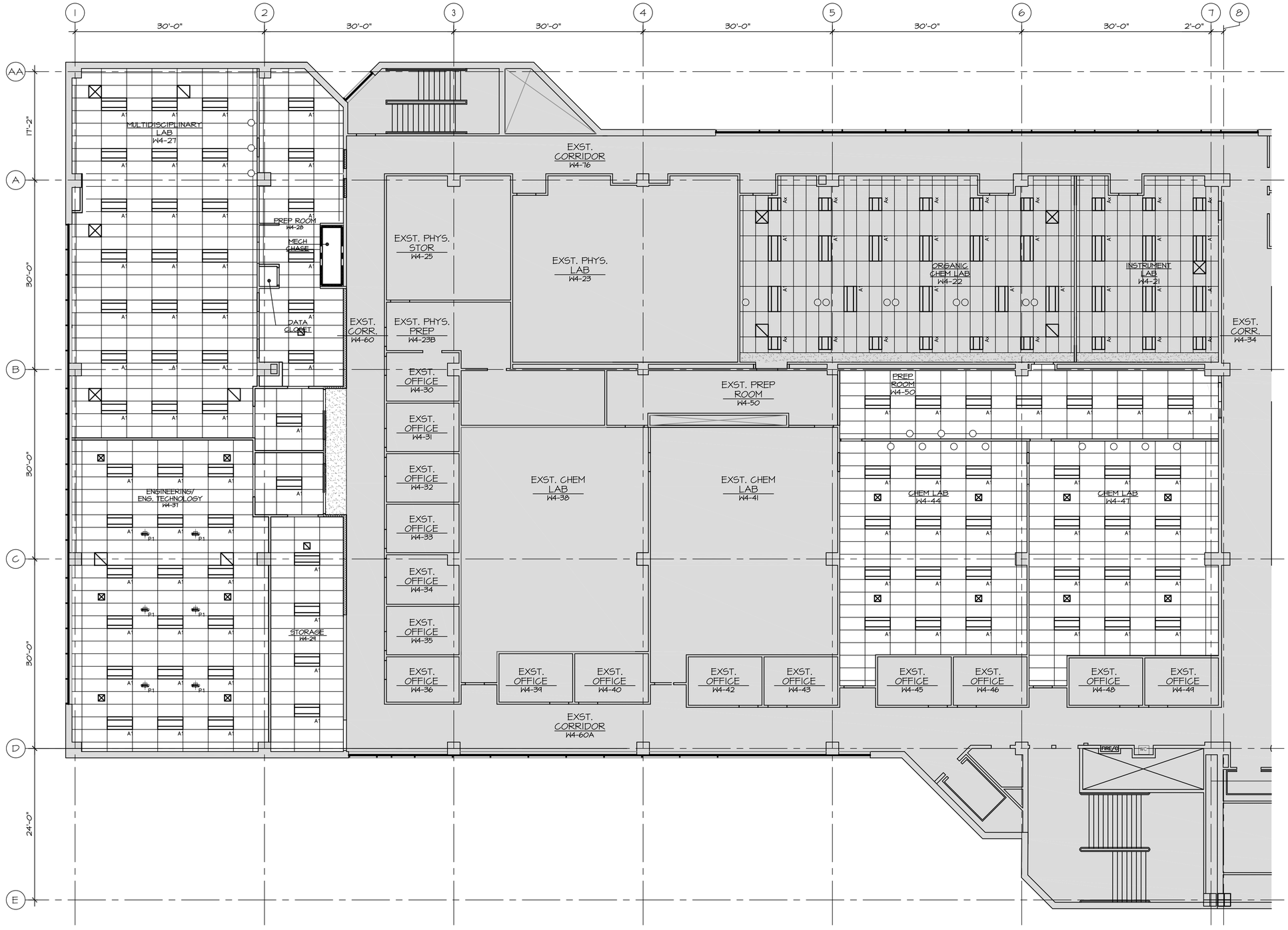
KEY:

- A1 — 2'x4' RECESSED DIRECT/INDIREDCT SIDE MOUNT FLUORESCENT FIXTURE; REFER TO ELEC DWG
- AX — 2'x2' RECESSED DIRECT/INDIREDCT SIDE MOUNT FLUORESCENT FIXTURE; REFER TO ELEC DWG
- EXIT FIXTURE - WALL MOUNTED
- EXIT FIXTURE - CEILING MOUNTED
- 2'X4' ACOUSTIC CEILING TILE REFER TO FINISH SCHEDULE
- GWB CEILING; PTD
- C2 — LOW PROFILE LED DOWNLIGHT
- P1 — CEILING MOUNTED RETRACTABLE POWER CORD AND REEL
- DUCT OPENING FOR HOOD EXHAUST; TYP.

GENERAL NOTES:

1. ALL CEILING 9'-0" AFF UNO.
2. COORDINATE CEILING LAYOUT WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS.
3. COORDINATE CEILING FINISHES WITH FINISH SCHEDULE.
4. REFER TO 2/CLA-610 FOR TYPICAL CEILING MOUNTED RETRACTABLE POWER CORD AND REEL DETAIL.



1 / CL-A-404.B — FOURTH FLOOR REFLECTED CEILING PLAN - PHASE B

1/8" = 1'-0"

1' 4' 20'

0 2' 10'

PROJECT NORTH

REVISIONS

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 REFLECTED CEILNING PLAN - PHASE B

DATE: MARCH 14, 2013

SCALE: AS NOTED

DRAWN BY: AME

CHECKED BY: ASC

PROJECT NUMBER: 911

DRAWING NUMBER: CL-A-404.B

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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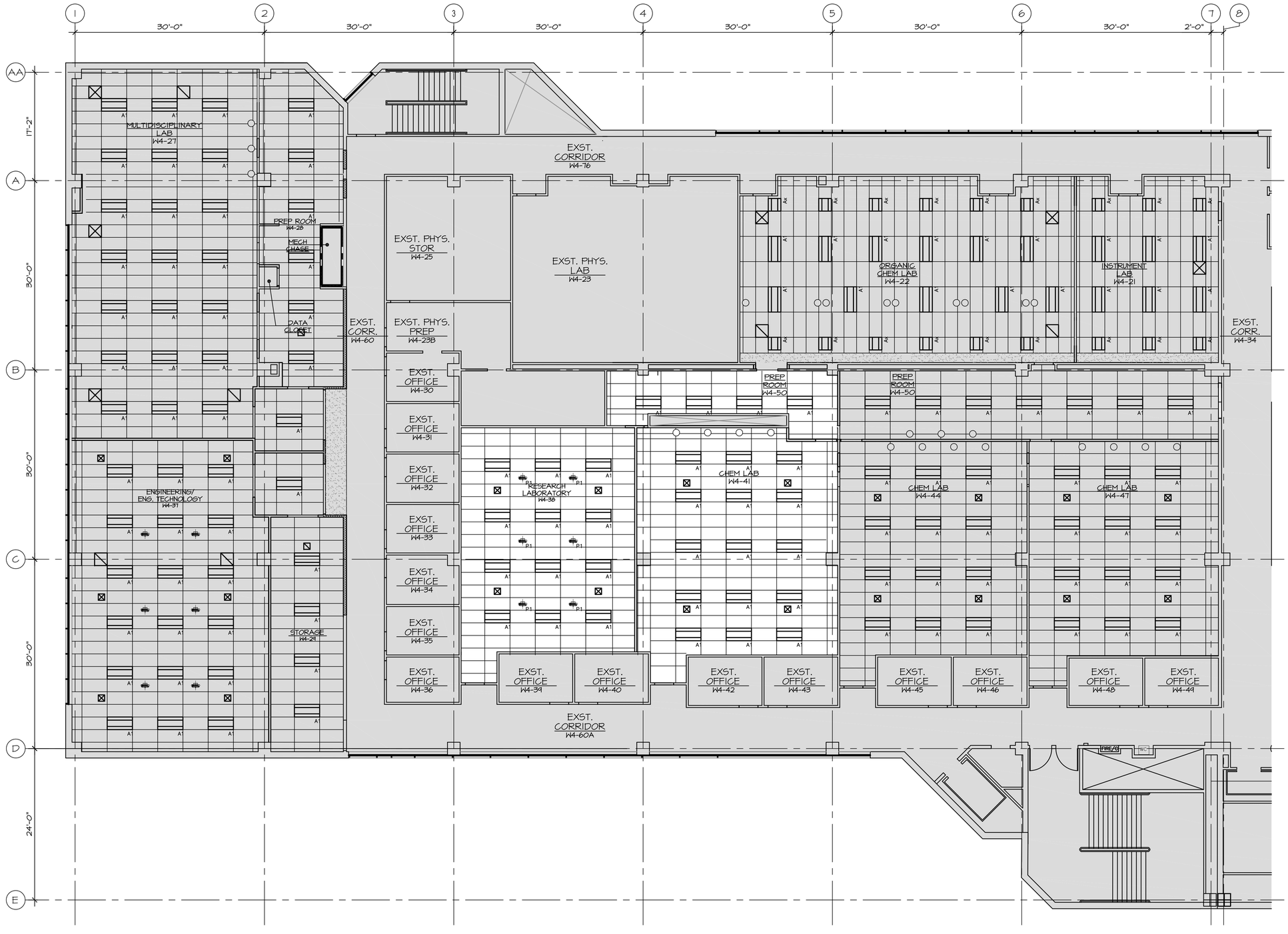
KEY:

- A1 — 2'x4' RECESSED DIRECT/INDIREDCT SIDE MOUNT FLUORESCENT FIXTURE; REFER TO ELEC DWG
- AX — 2'x2' RECESSED DIRECT/INDIREDCT SIDE MOUNT FLUORESCENT FIXTURE; REFER TO ELEC DWG
- EXIT FIXTURE - WALL MOUNTED
- EXIT FIXTURE - CEILING MOUNTED
- 2'X4' ACOUSTIC CEILING TILE REFER TO FINISH SCHEDULE
- GWB CEILING; PTD
- C2 — LOW PROFILE LED DOWNLIGHT
- P1 — CEILING MOUNTED RETRACTABLE POWER CORD AND REEL
- DUCT OPENING FOR HOOD EXHAUST; TYP.

GENERAL NOTES:

1. ALL CEILING 9'-0" AFF UNO.
2. COORDINATE CEILING LAYOUT WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS.
3. COORDINATE CEILING FINISHES WITH FINISH SCHEDULE.
4. REFER TO 2/CLA-610 FOR TYPICAL CEILING MOUNTED RETRACTABLE POWER CORD AND REEL DETAIL.



1 / CL-A-404.C — FOURTH FLOOR PLAN - PHASE C
1/8" = 1'-0"

0 2' 10' 1' 4' 20'

PROJECT NORTH

REVISIONS

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 REFLECTED CEILNING PLAN - PHASE C

DATE
JULY 19, 2013

SCALE
AS NOTED

DRAWN BY
AME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-404.C

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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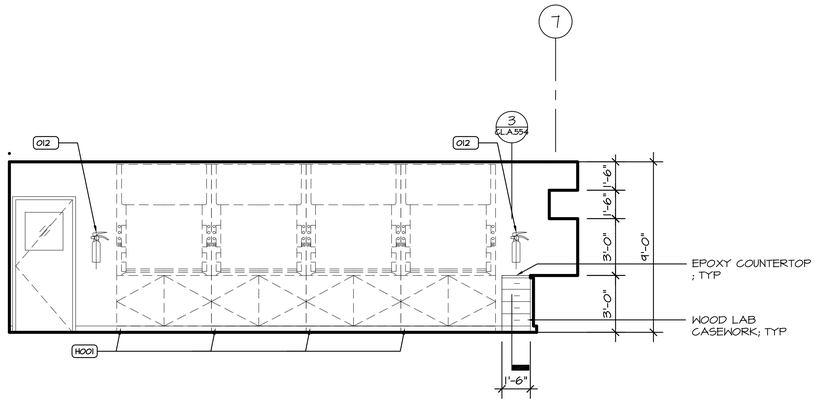
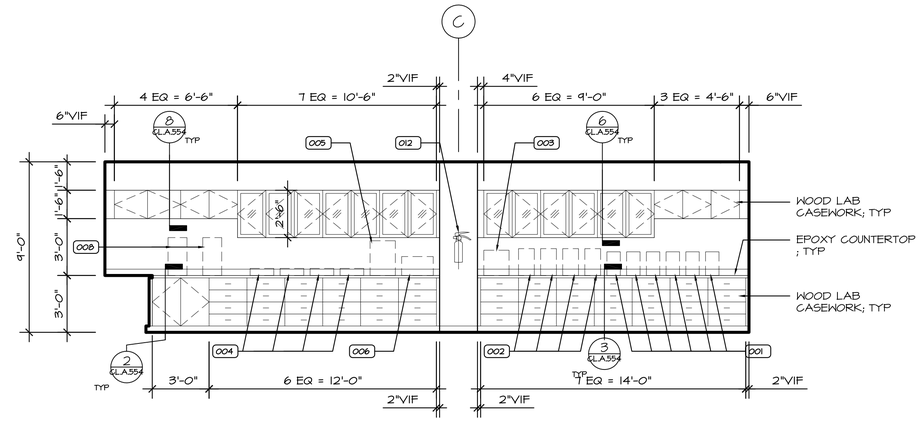


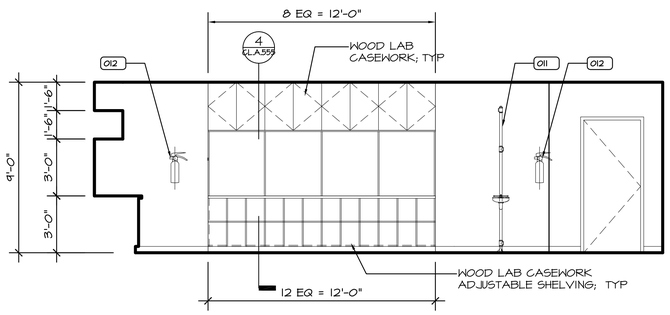
6 CHEMISTRY LAB W4-47 - NORTH ELEVATION
CL-A-500 1/4" = 1'-0"

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



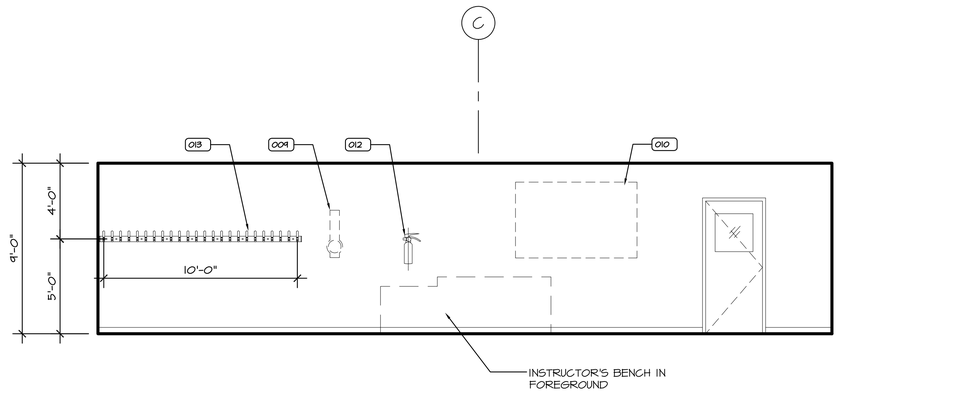
5 CHEMISTRY LAB W4-47 - EAST ELEVATION
CL-A-500 1/4" = 1'-0"

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



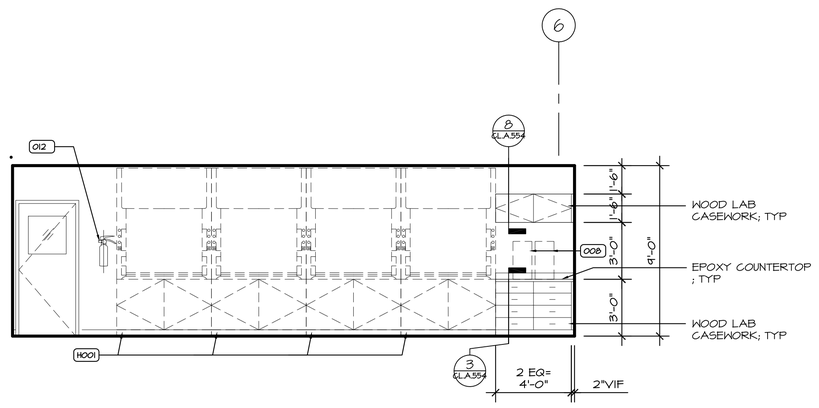
4 CHEMISTRY LAB W4-44/7 - SOUTH ELEVATION
CL-A-500 1/4" = 1'-0"

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



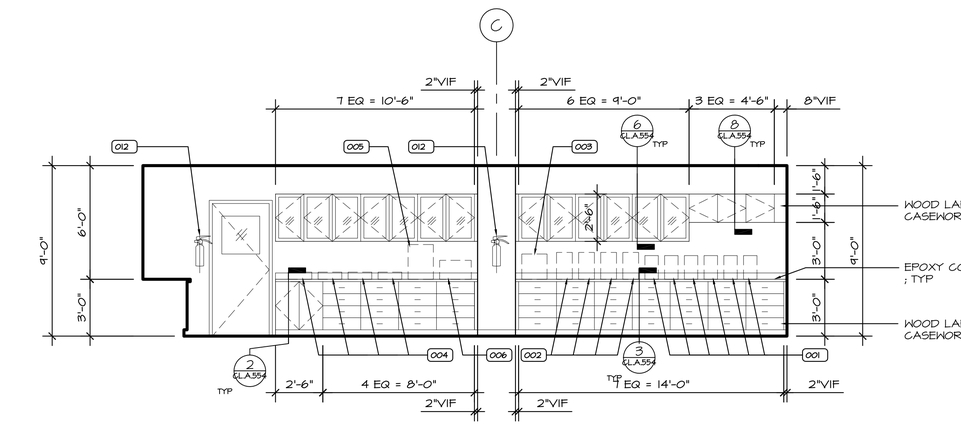
3 CHEMISTRY LAB W4-44/7 - WEST ELEVATION
CL-A-500 1/4" = 1'-0"

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 CHEMISTRY LAB W4-44 - NORTH ELEVATION
CL-A-500 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 CHEMISTRY LAB W4-44 - EAST ELEVATION
CL-A-500 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

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 CHEM LAB W4-44 &47

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
AME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-500

PLOTTED: 8/13/2013 5:14 PM BY: ALEX COLL

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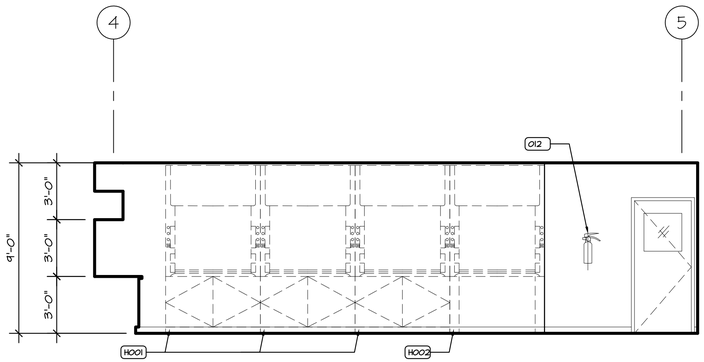
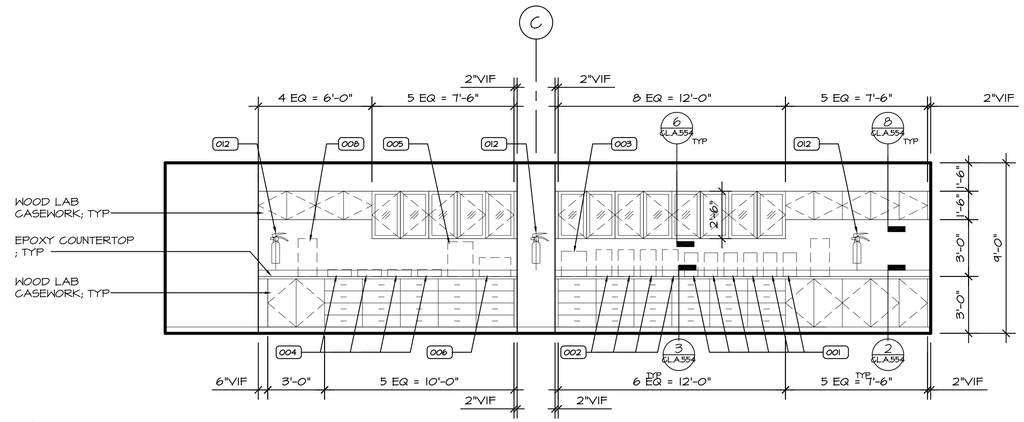


4 CL-A.501 CHEM LAB W4-41 - NORTH ELEVATION

1/4" = 1'-0"

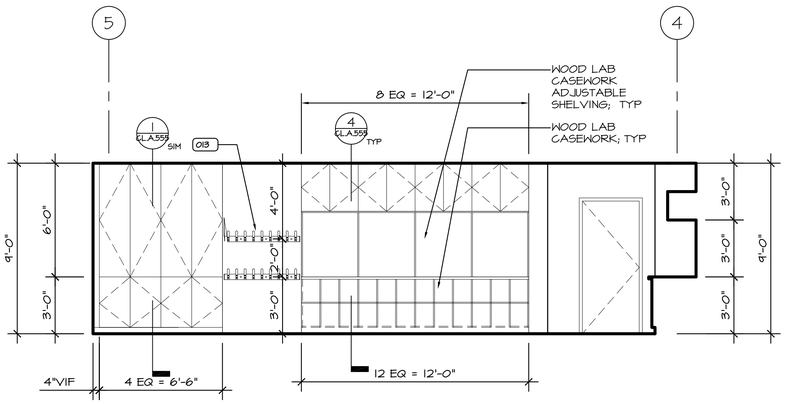
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 CL-A.501 CHEM LAB W4-41 - WEST ELEVATION

1/4" = 1'-0"

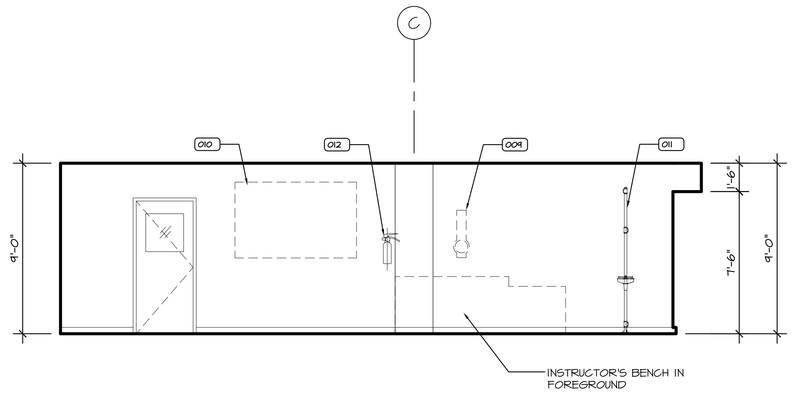
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 CL-A.501 CHEM LAB W4-41 - 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.501 CHEM LAB W4-41 - 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

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 CHEM LAB W4-41

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
AME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-501

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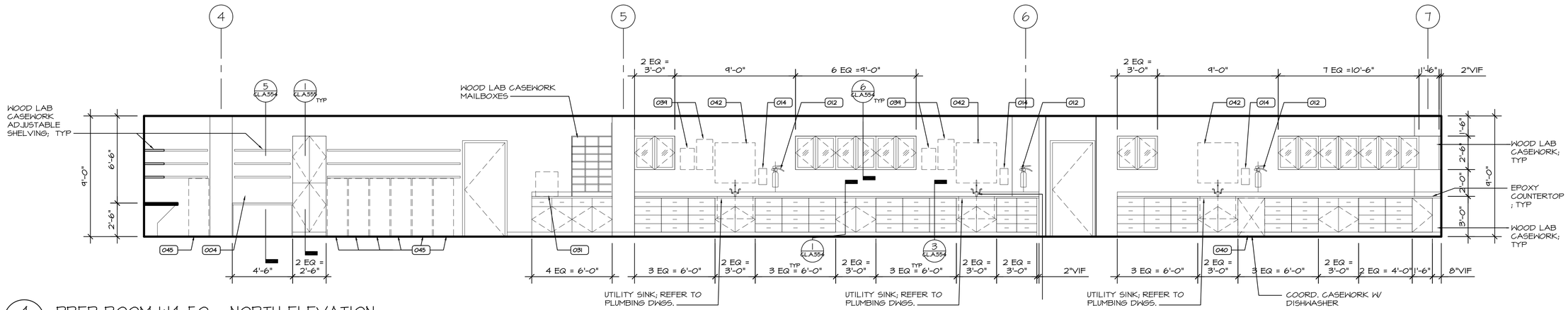
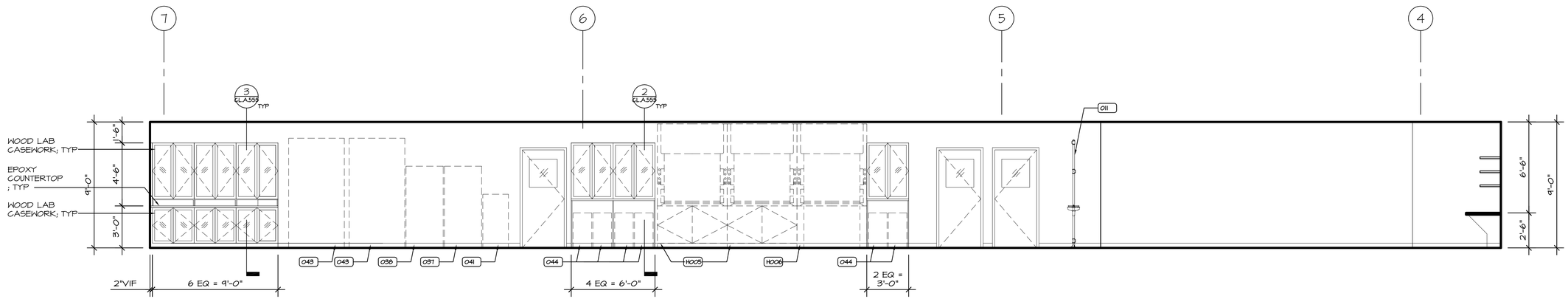


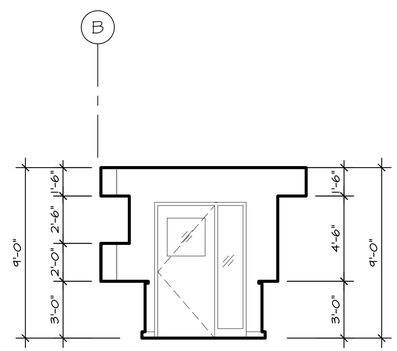
4 PREP ROOM W4-50 - NORTH ELEVATION
CL-A.502 1/4" = 1'-0"

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



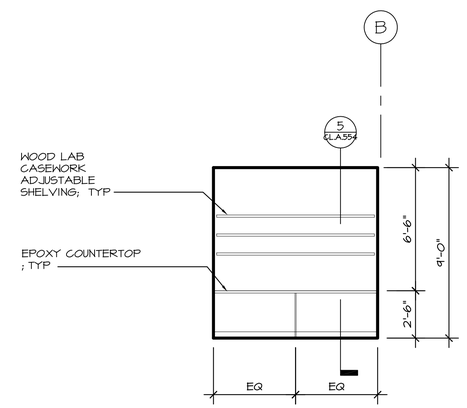
3 PREP ROOM W4-50 - SOUTH ELEVATION
CL-A.502 1/4" = 1'-0"

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.

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FOURTH FLOOR RENOVATIONS
WEST BUILDING RENOVATIONS

Community College of Philadelphia
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Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
INTERIOR ELEVATIONS PREP ROOM W4-50

DATE
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CL-A-502

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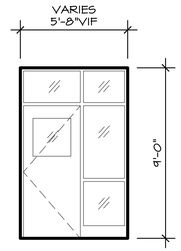

5 CL-A.503 ALTERNATE GT-1 VESTIBULE ELEVATION
1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
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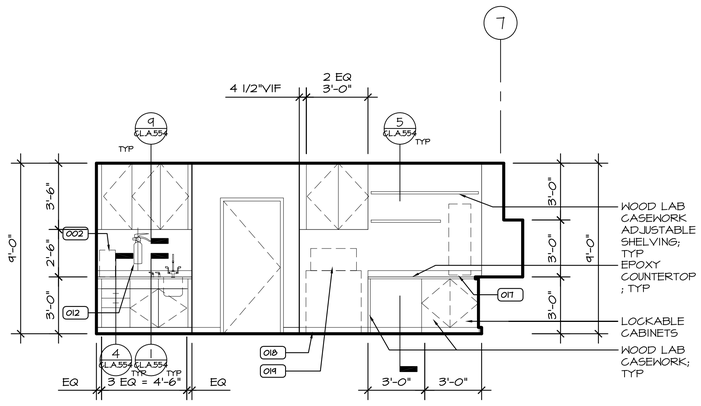
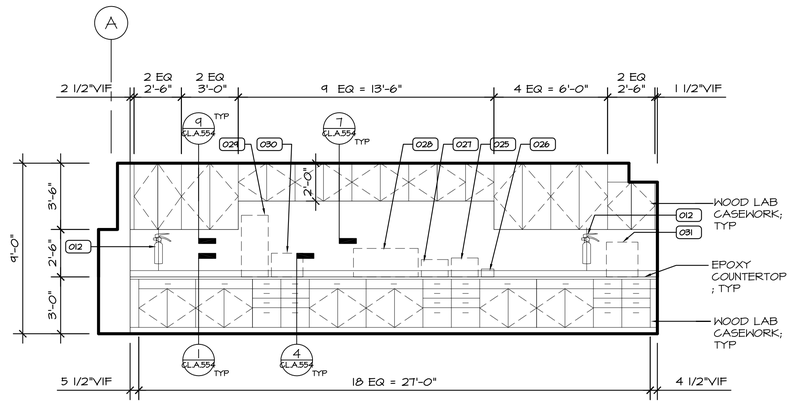


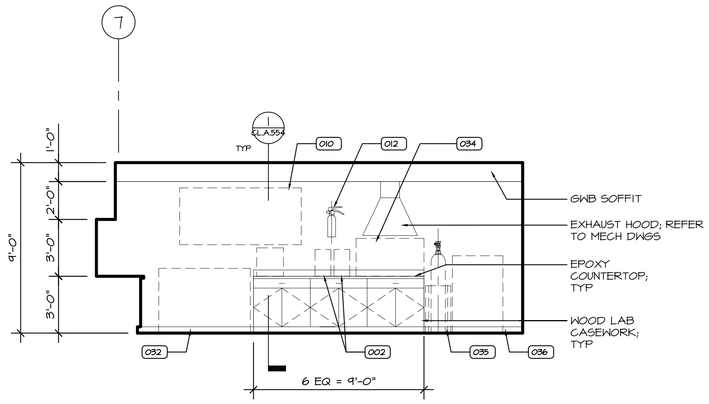
4 CL-A.503 INSTRUMENT LAB W4-21 - NORTH ELEVATION
1/4" = 1'-0"

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



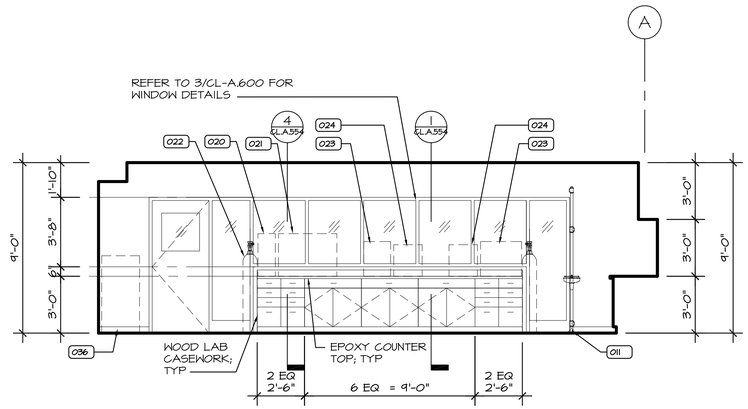
3 CL-A.503 INSTRUMENT LAB W4-21 - EAST ELEVATION
1/4" = 1'-0"

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



2 CL-A.503 INSTRUMENT LAB W4-21 - 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.503 INSTRUMENT LAB W4-21 - 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.

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INTERIOR ELEVATIONS INSTRUMENT LAB W4-21

DATE
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911

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CL-A-503

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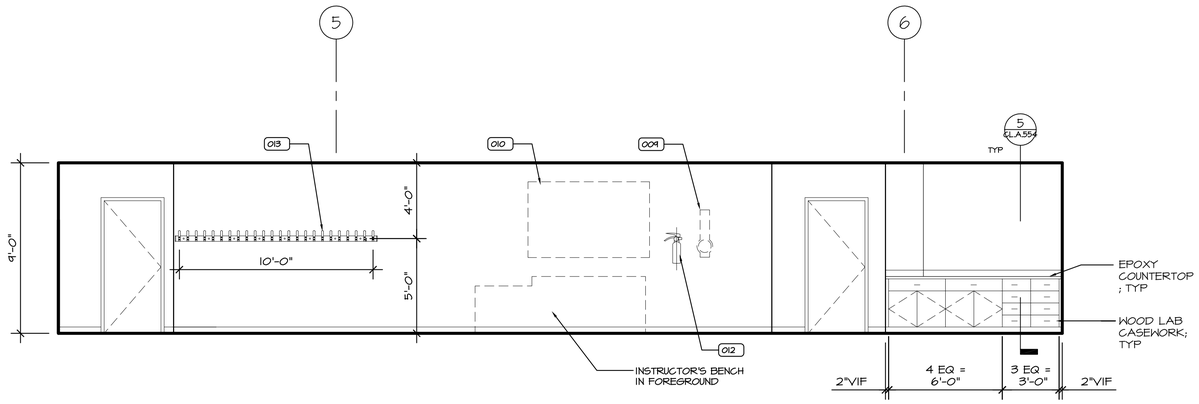
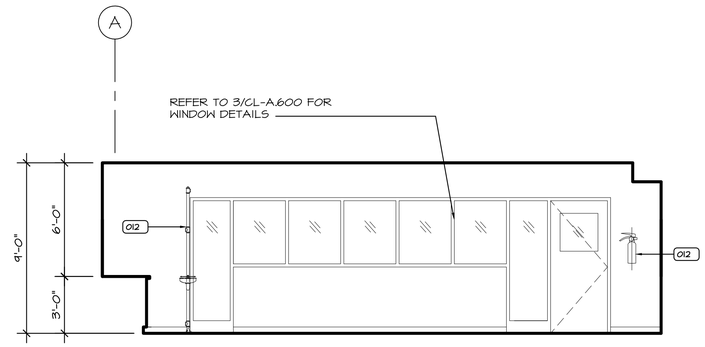


4 ORGANIC CHEM LAB W4-22 - NORTH ELEVATION

CL-A.504 1/4" = 1'-0"

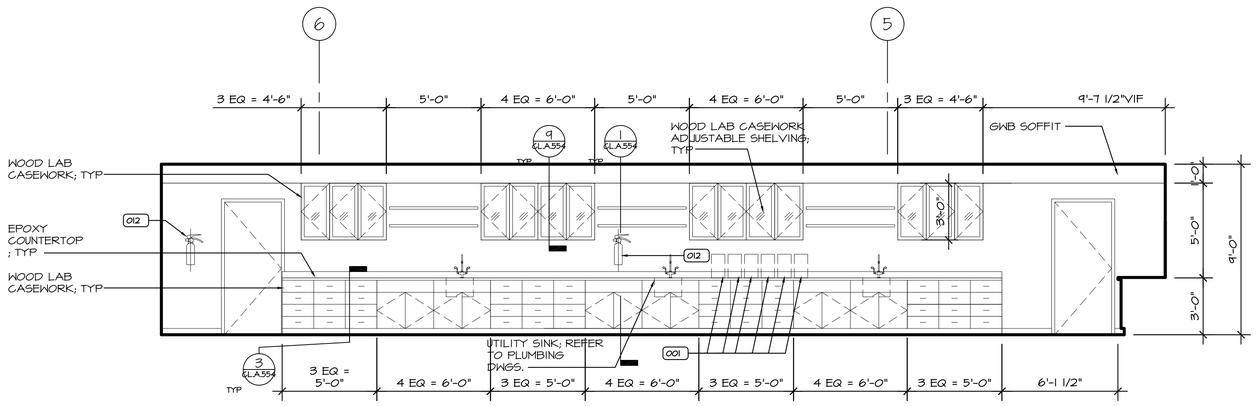
NOTE;
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 ORGANIC CHEM LAB W4-22 - WEST ELEVATION

CL-A.504 1/4" = 1'-0"

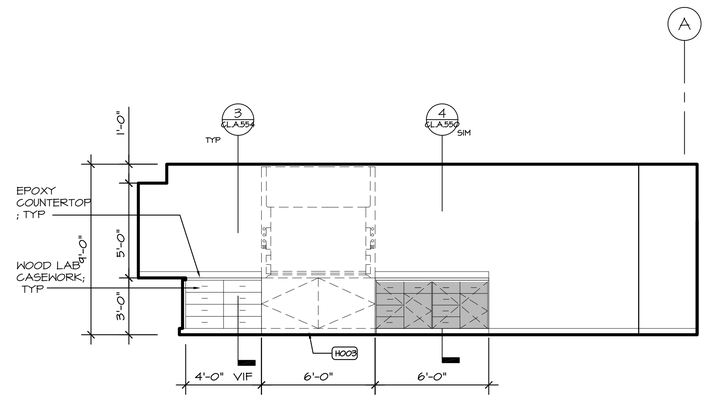
NOTE;
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 ORGANIC CHEM LAB W4-22 - SOUTH ELEVATION

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

CL-A.504 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.

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DRAWING TITLE

INTERIOR ELEVATIONS ORGANIC LAB W4-22

DATE MARCH 14, 2013

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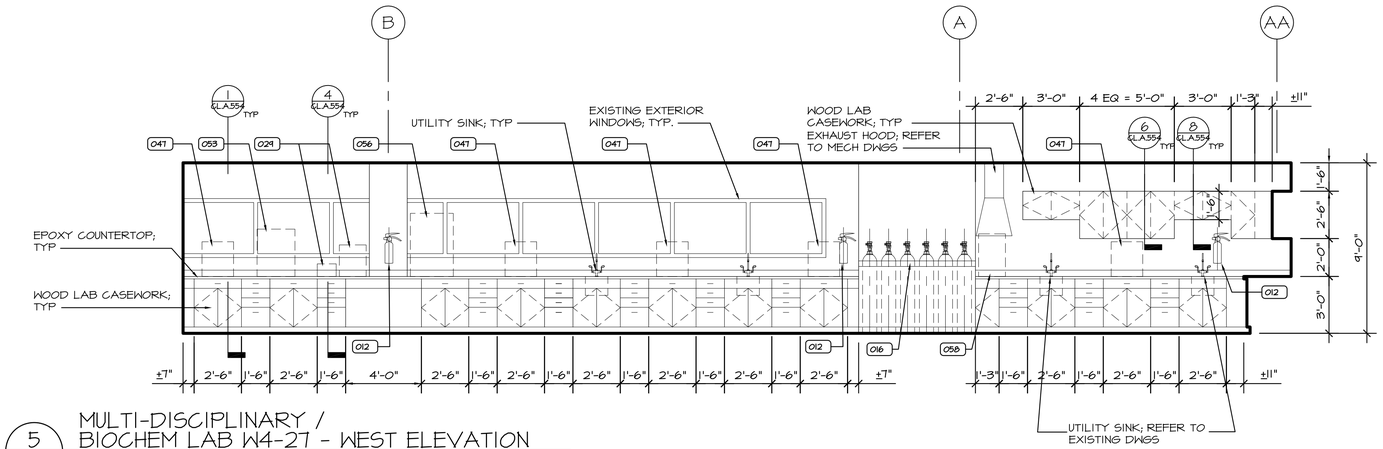
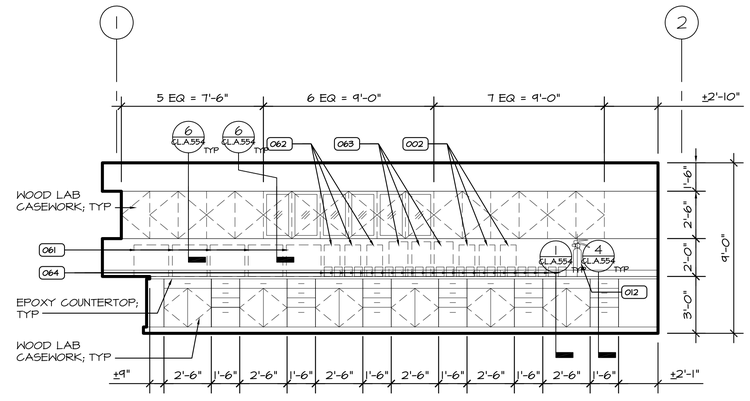


5 GL-A.505 MULTI-DISCIPLINARY / BIOCHEM LAB W4-27 - WEST ELEVATION

1/4" = 1'-0"

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



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

1/4" = 1'-0"

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

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

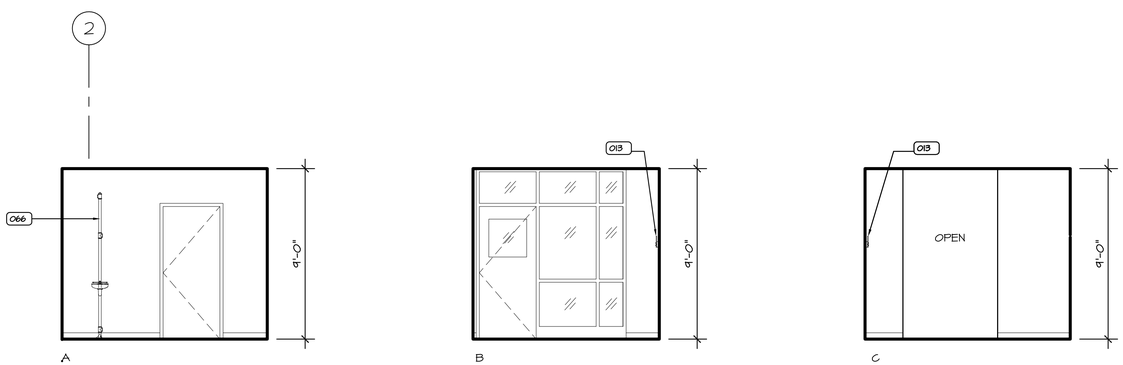
1/4" = 1'-0"

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

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

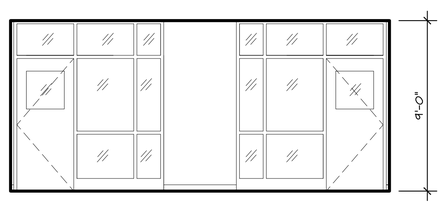
1/4" = 1'-0"

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



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

1/4" = 1'-0"



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

1/4" = 1'-0"

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

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SEALS

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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

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DRAWING NUMBER
CL-A-505

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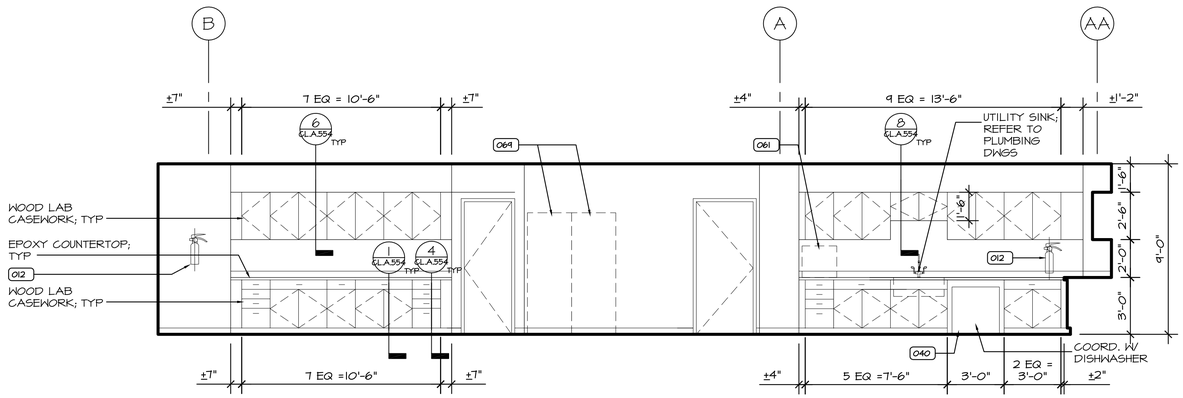
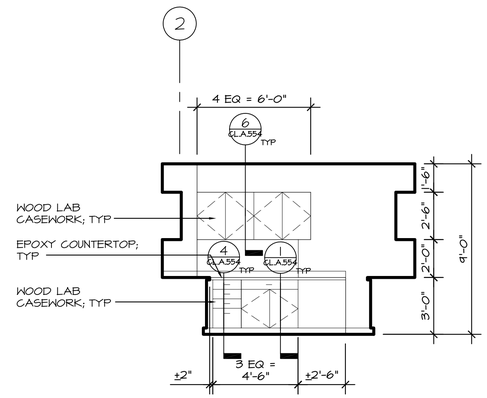


6 PREP ROOM W4-28 - WEST ELEVATION

CL-A.506 1/4" = 1'-0"

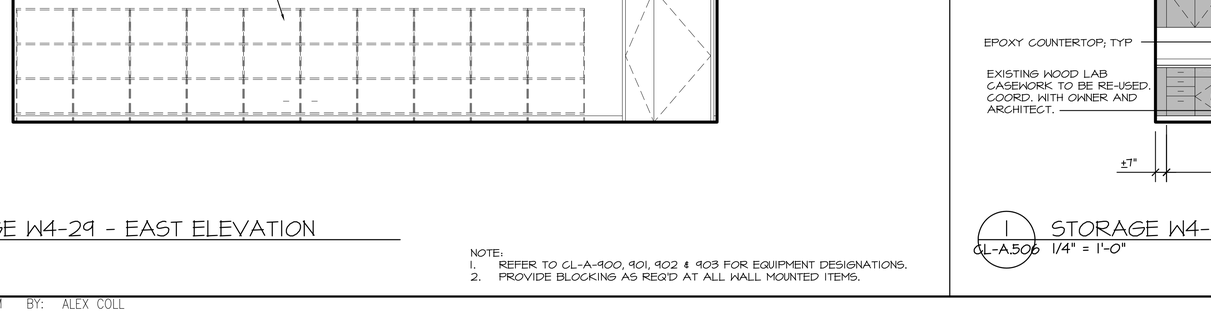
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



5 PREP ROOM W4-28 - NORTH ELEVATION

CL-A.506 1/4" = 1'-0"

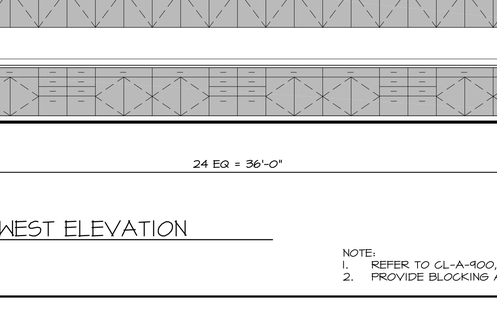
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



4 PREP ROOM W4-28 - EAST ELEVATION

CL-A.506 1/4" = 1'-0"

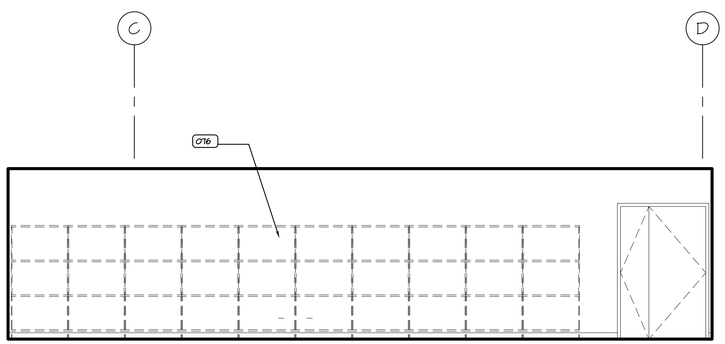
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 PREP ROOM W4-28 - SOUTH ELEVATION

CL-A.506 1/4" = 1'-0"

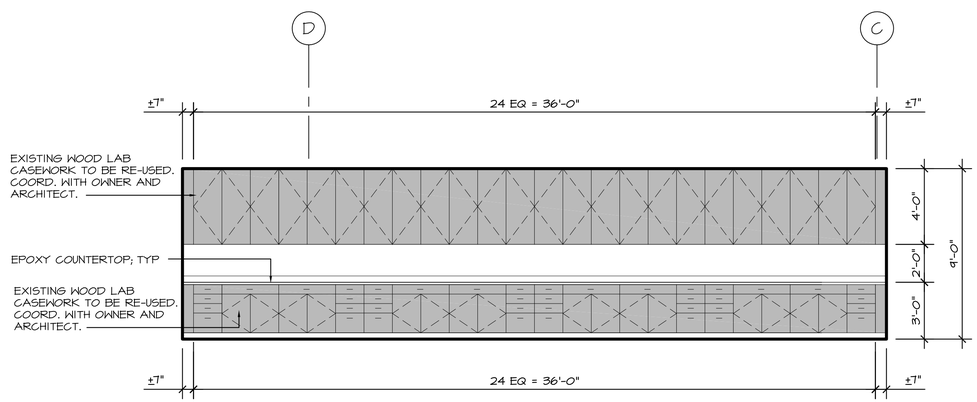
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



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.

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INTERIOR ELEVATIONS
PREP ROOM W4-28
STORAGE W4-29

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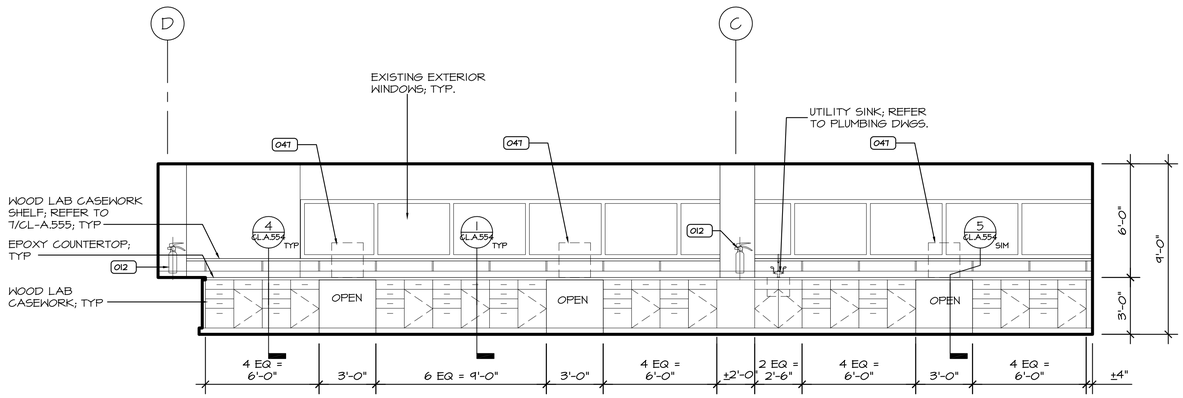
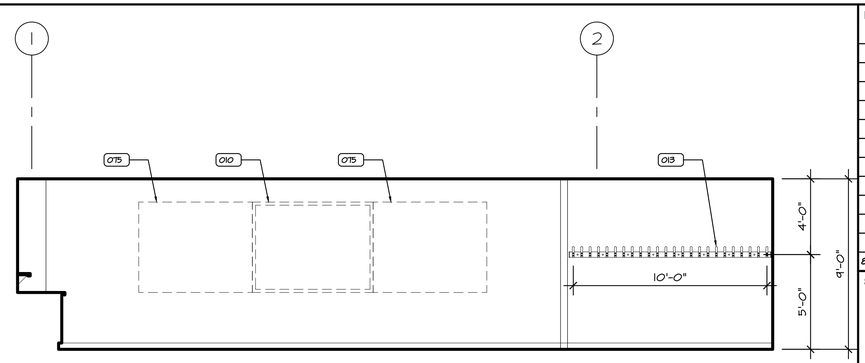


4 CL-A.501 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - WEST ELEVATION

1/4" = 1'-0"

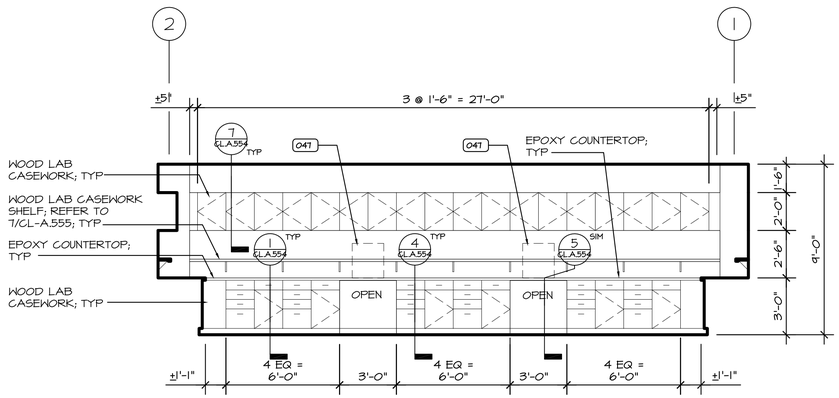
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



3 CL-A.501 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - NORTH ELEVATION

1/4" = 1'-0"

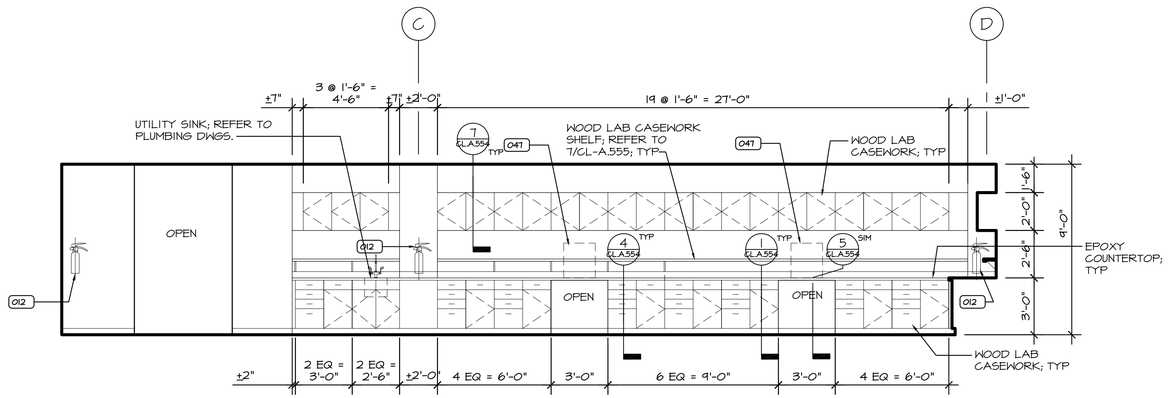
NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
2. PROVIDE BLOCKING AS REQ'D AT ALL WALL MOUNTED ITEMS.



2 CL-A.501 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.501 ENGINEERING / ENGINEERING TECHNOLOGY W4-37 - EAST ELEVATION

1/4" = 1'-0"

NOTE:
1. REFER TO CL-A-900, 901, 902 & 903 FOR EQUIPMENT DESIGNATIONS.
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INTERIOR ELEVATIONS ENGINEERING / ENGINEERING TECHNOLOGY W4-37

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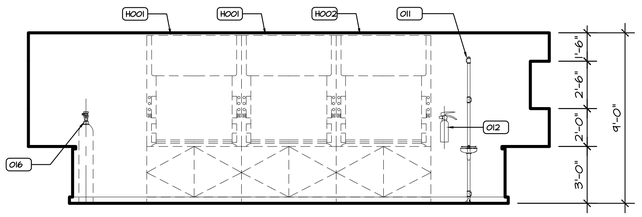
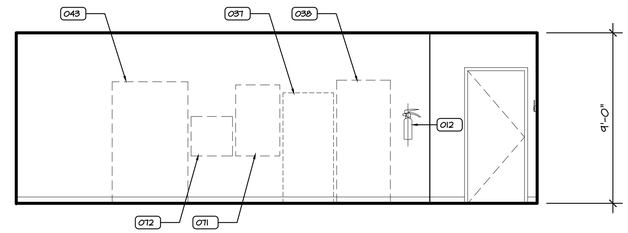


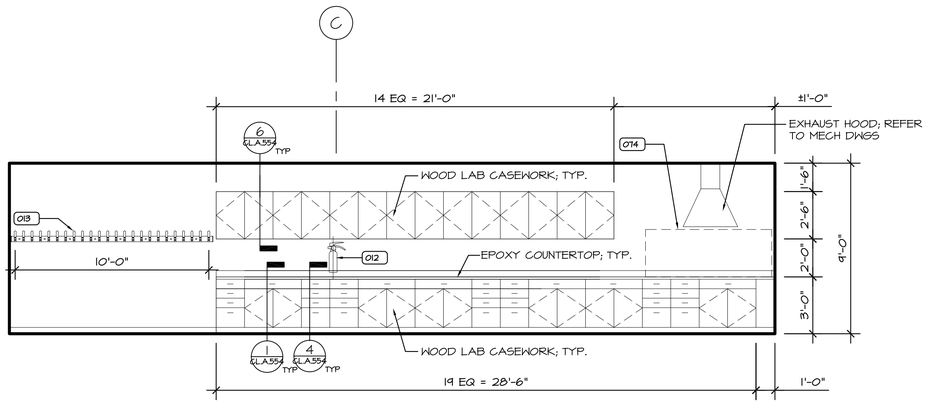
4 RESEARCH LAB W4-38 - NORTH ELEVATION
CL-A.508 1/4" = 1'-0"

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



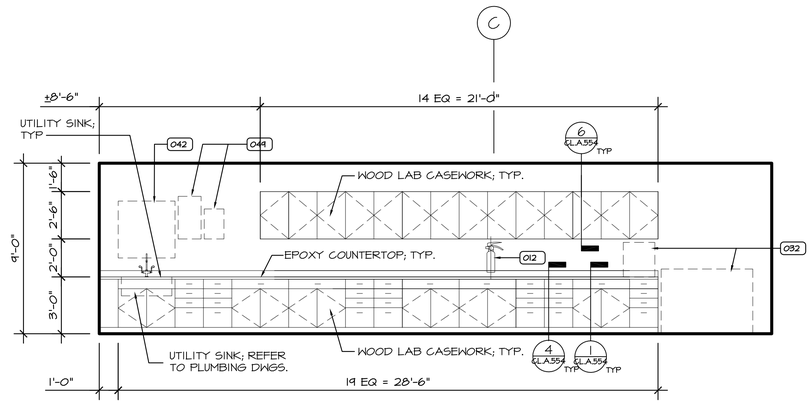
3 RESEARCH LAB W4-38 - SOUTH ELEVATION
CL-A.508 1/4" = 1'-0"

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

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
DRAWN BY ASC
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-508

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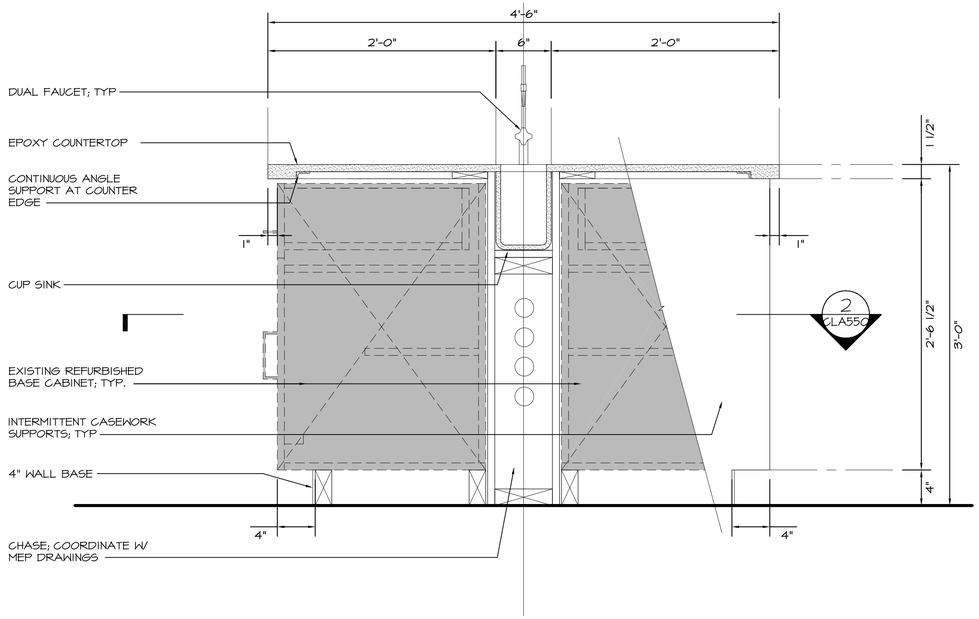
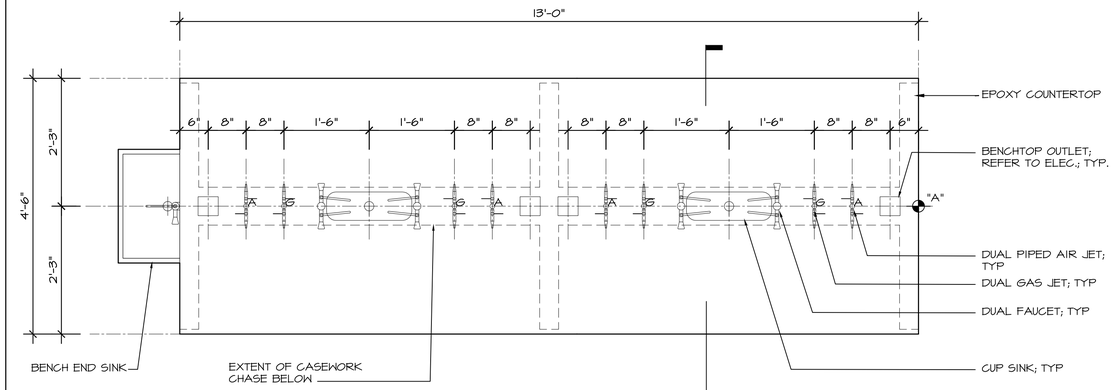
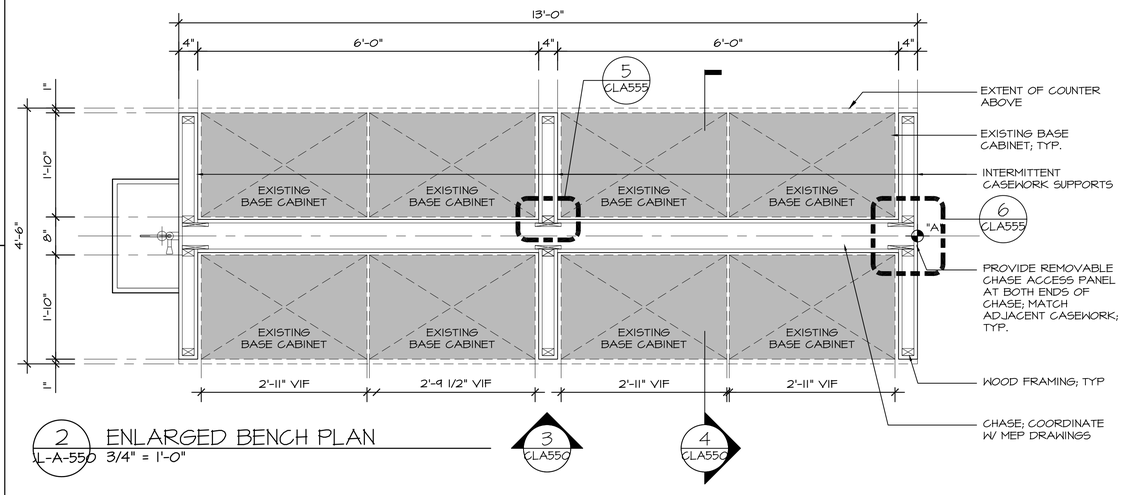


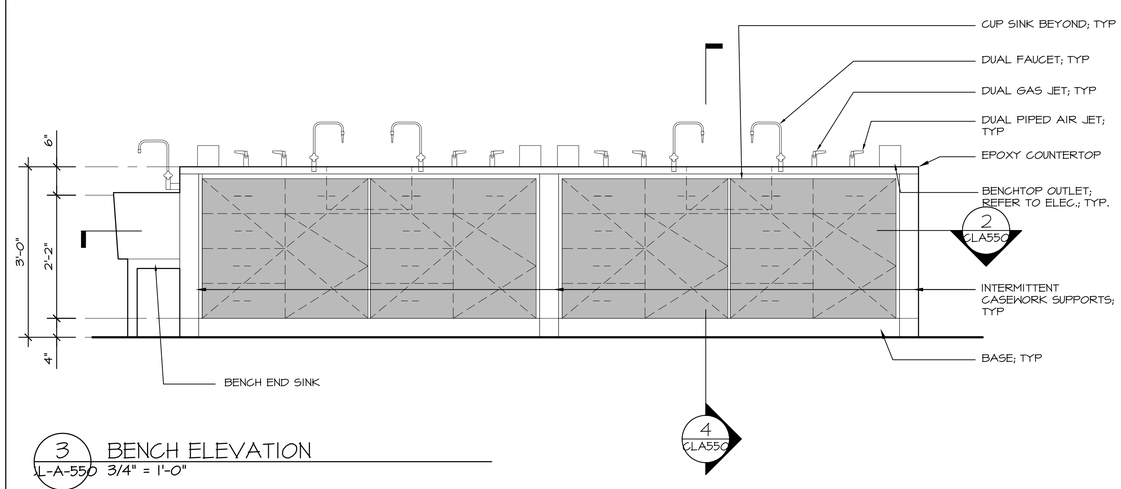
4 DETAIL
CL-A-550 1-1/2" = 1'-0"



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



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



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

--

REVISIONS

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
TYPICAL CHEM LAB BENCH DETAILS

DATE MARCH 14, 2013
SCALE AS NOTED
DRAWN BY ASC
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-550

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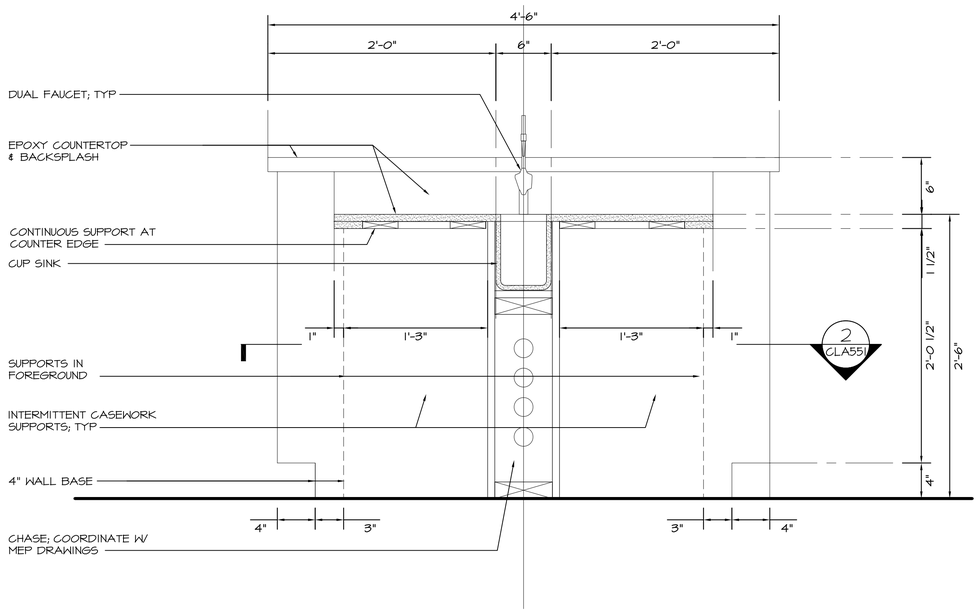
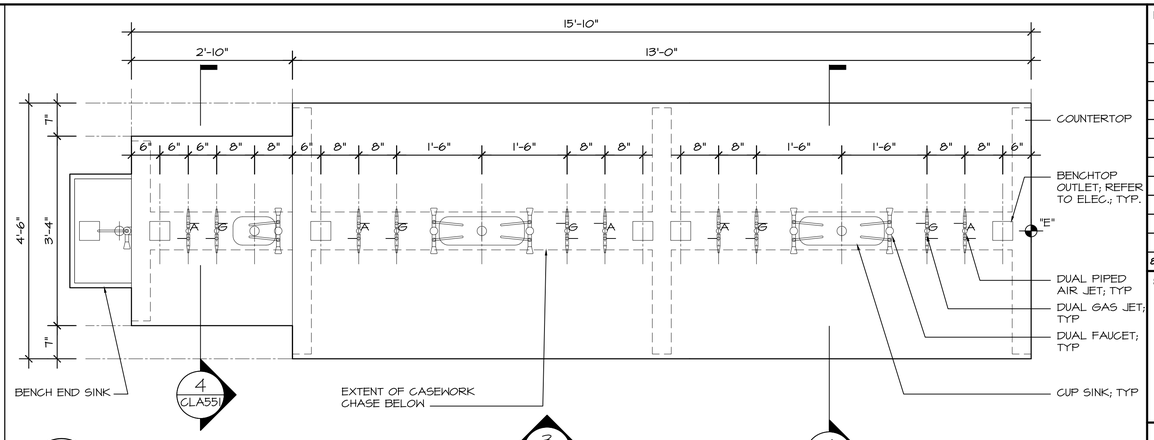
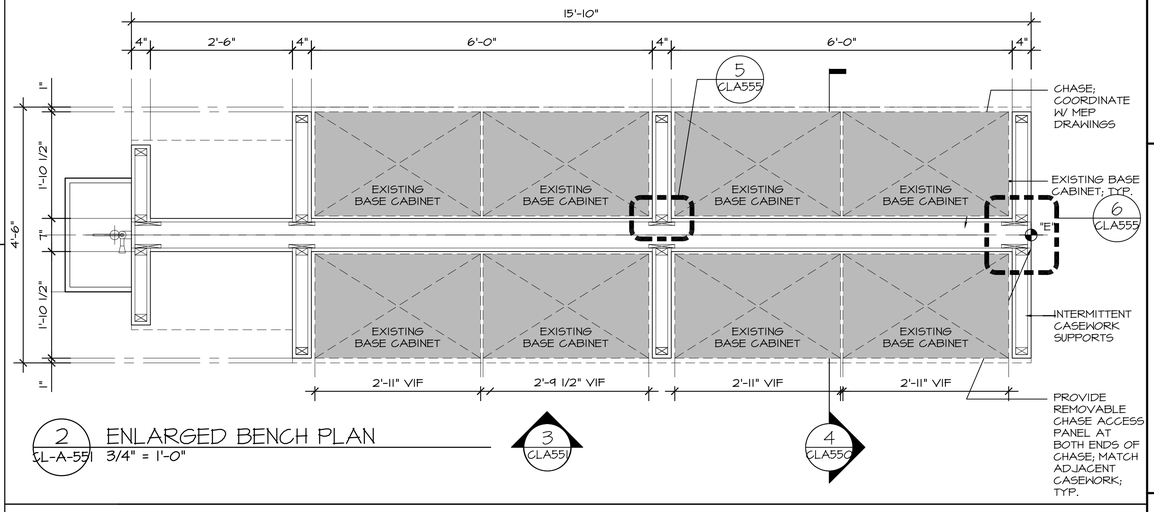


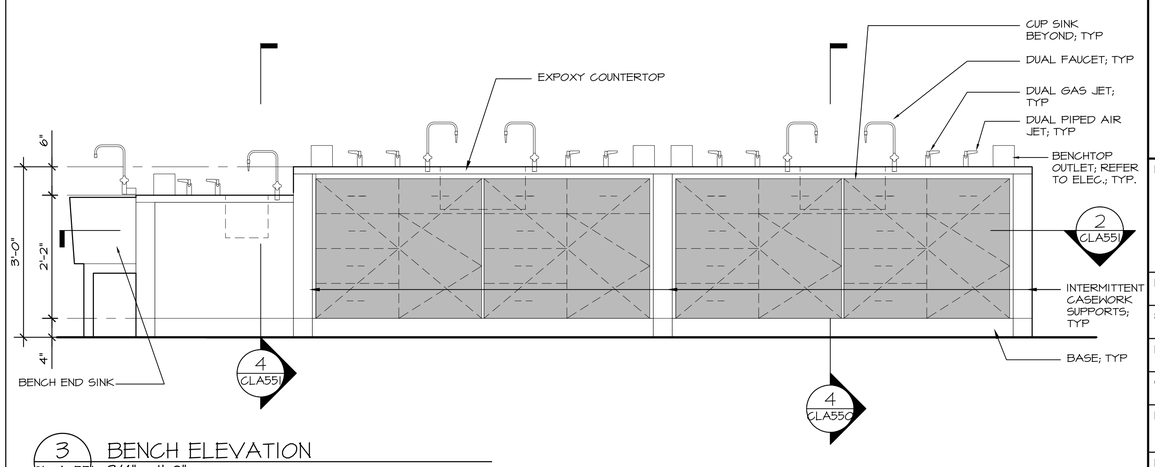
4 DETAIL
CL-A-551 1-1/2" = 1'-0"



1 ENLARGED BENCH PLAN
CL-A-551 3/4" = 1'-0"



2 ENLARGED BENCH PLAN
CL-A-551 3/4" = 1'-0"



3 BENCH ELEVATION
CL-A-551 3/4" = 1'-0"

--

REVISIONS

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
ACCESSIBLE CHEM LAB BENCH DETAILS

DATE MARCH 14, 2013
SCALE AS NOTED
DRAWN BY ASC
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-551

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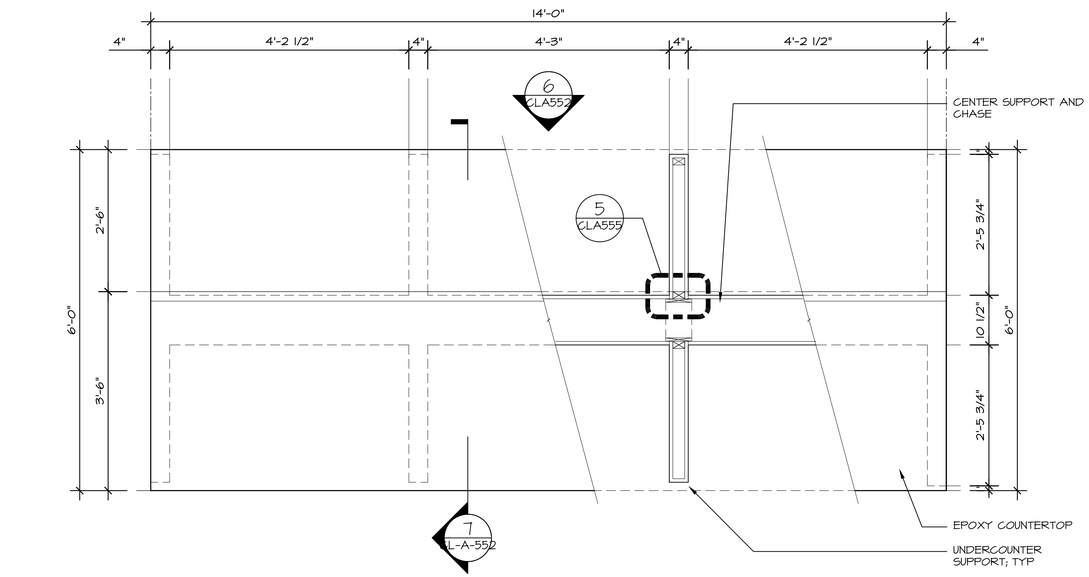
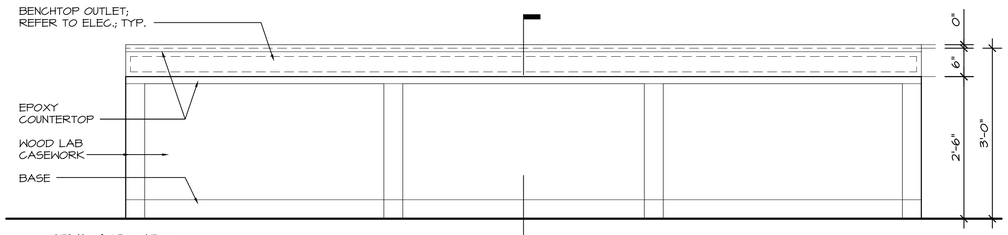
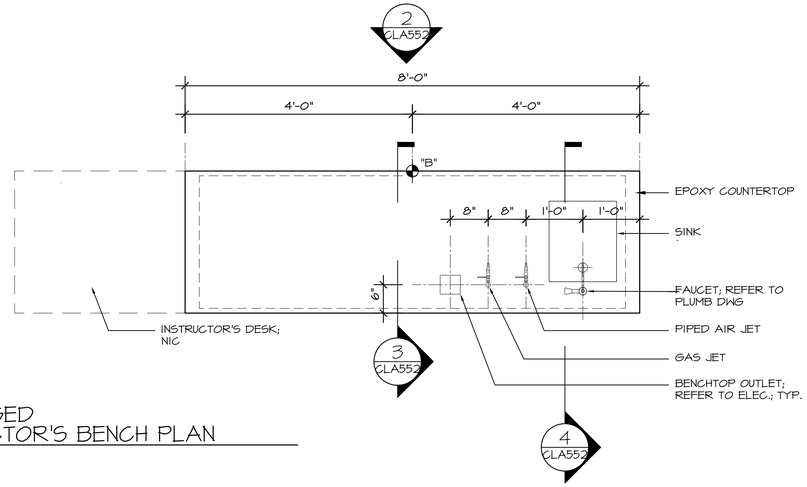


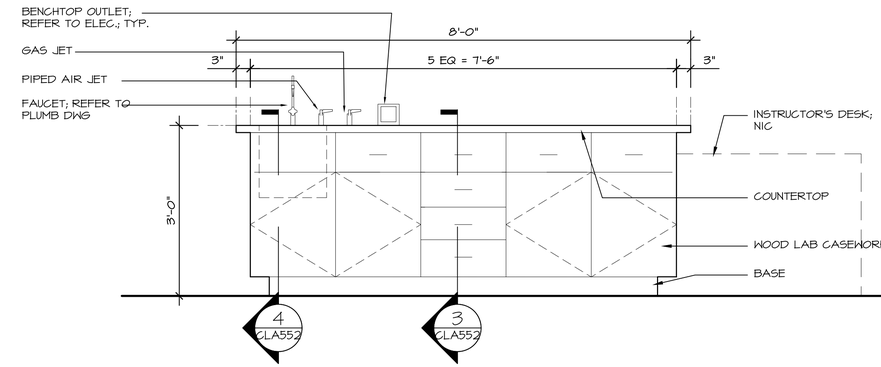
5 ENLARGED BENCH PLAN
CL-A-552 3/4" = 1'-0"



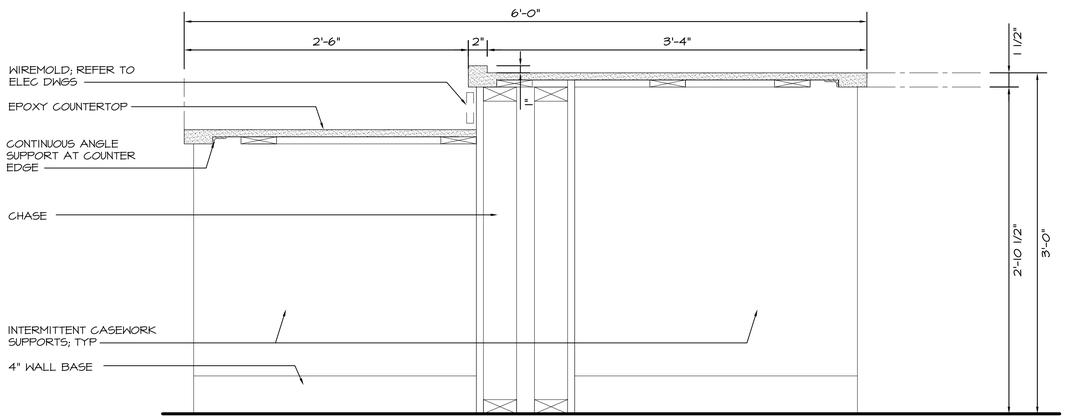
6 ENLARGED BENCH ELEVATION
CL-A-552 3/4" = 1'-0"



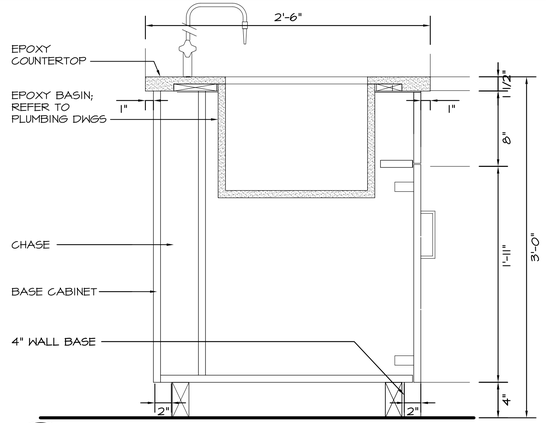
1 ENLARGED INSTRUCTOR'S BENCH PLAN
CL-A-552 3/4" = 1'-0"



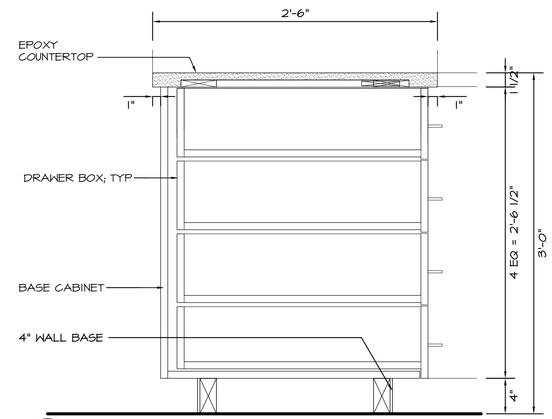
2 ENLARGED INSTRUCTOR'S BENCH ELEVATION
CL-A-552 3/4" = 1'-0"



7 DETAIL
CL-A-552 1-1/2" = 1'-0"



4 DETAIL
CL-A-552 1-1/2" = 1'-0"



3 DETAIL
CL-A-552 1-1/2" = 1'-0"

REVISIONS

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
TYPICAL INSTRUCTOR BENCH DETAILS

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-552

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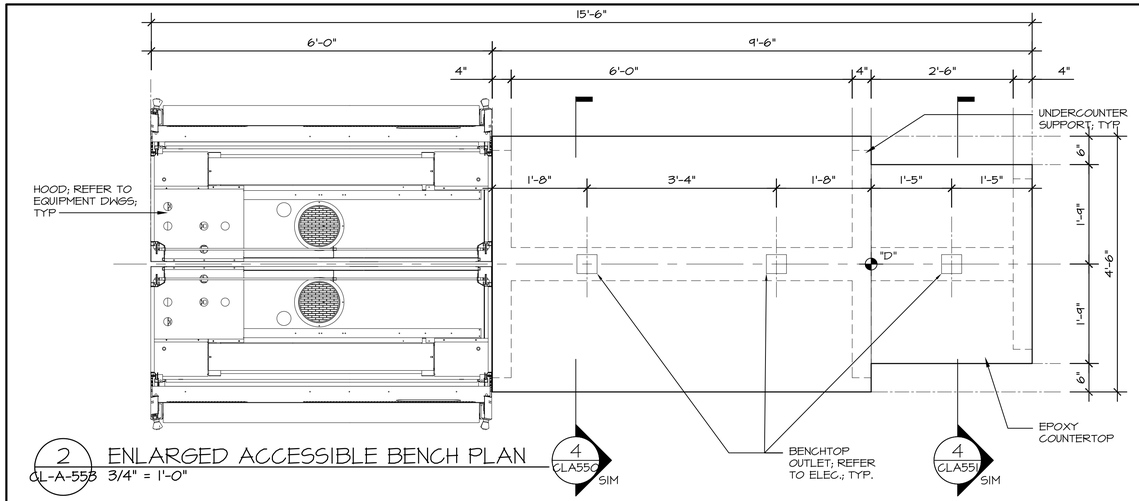
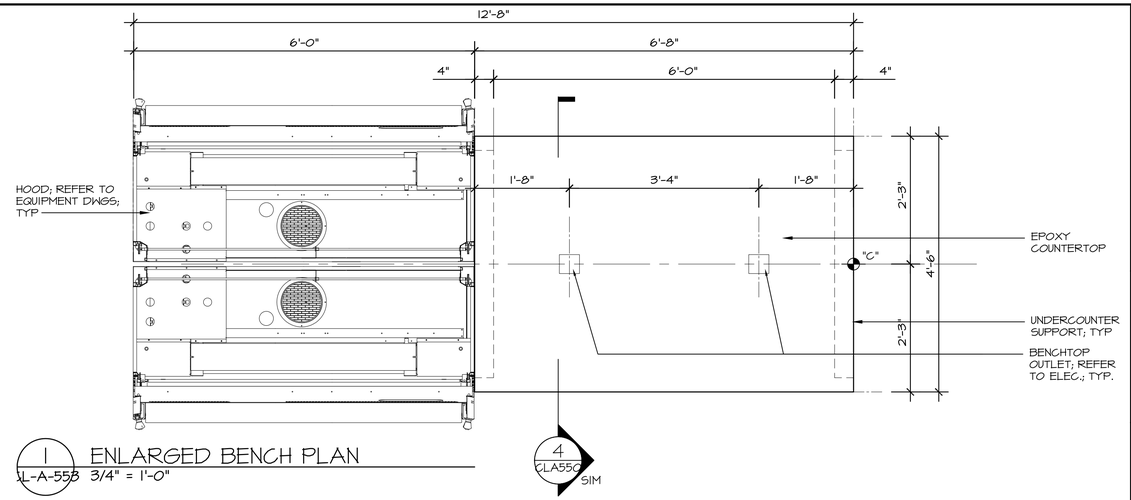
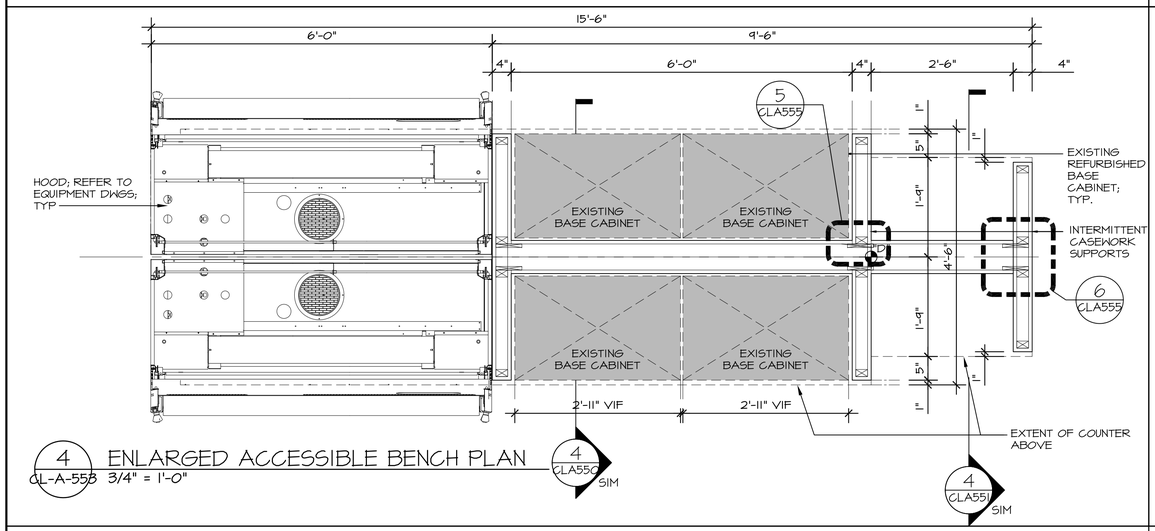


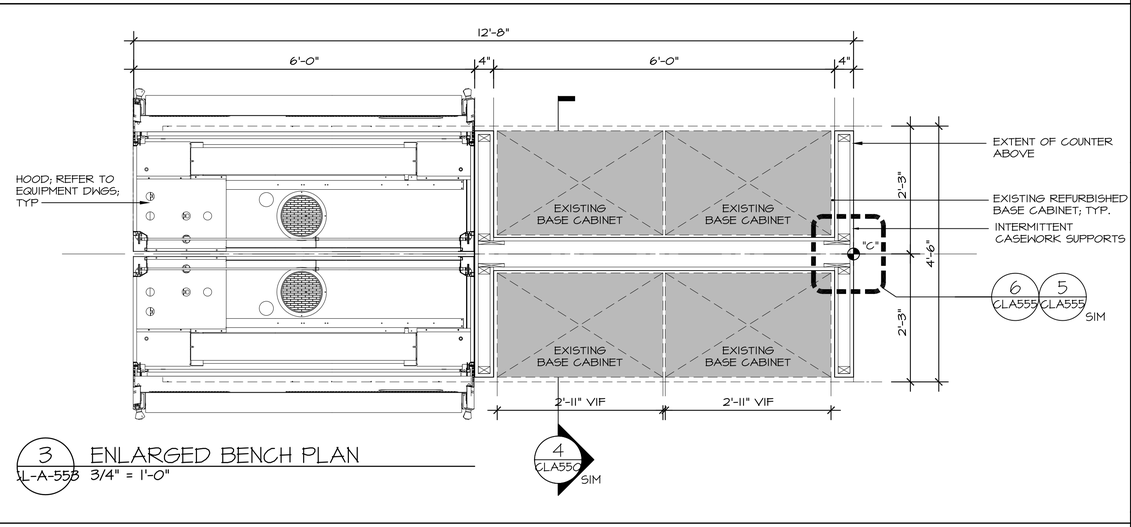
2 ENLARGED ACCESSIBLE BENCH PLAN
CL-A-553 3/4" = 1'-0"



1 ENLARGED BENCH PLAN
CL-A-553 3/4" = 1'-0"



4 ENLARGED ACCESSIBLE BENCH PLAN
CL-A-553 3/4" = 1'-0"



3 ENLARGED BENCH PLAN
CL-A-553 3/4" = 1'-0"

REVISIONS

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
ORGANIC CHEMISTRY & INSTRUMENT LAB BENCH DETAILS

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-553

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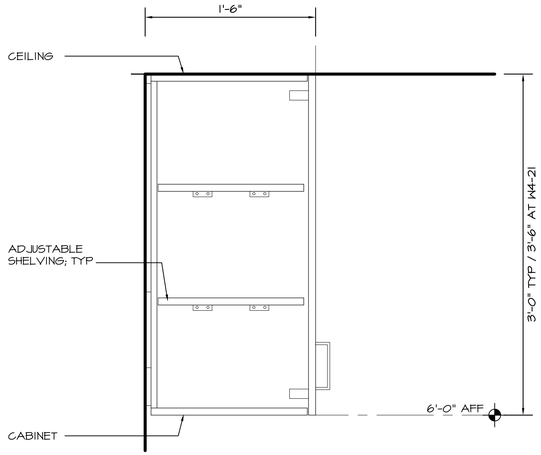
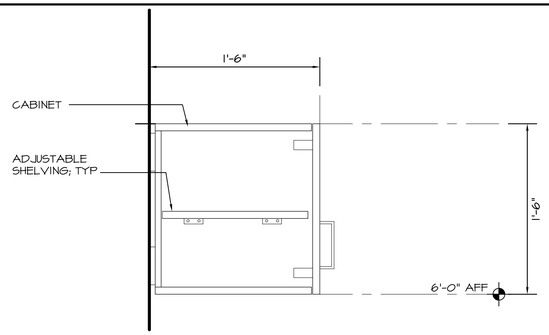


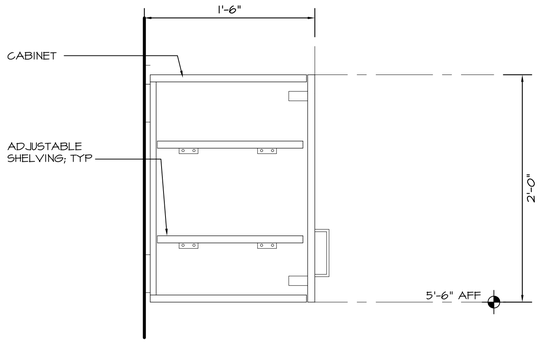
9 DETAIL
CL-A554 1-1/2" = 1'-0"

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



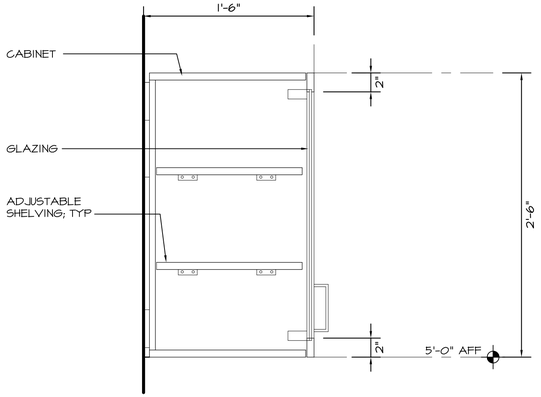
8 DETAIL
CL-A554 1-1/2" = 1'-0"

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



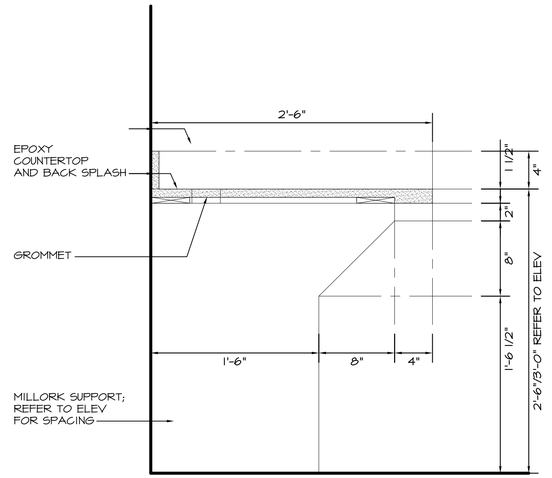
7 DETAIL
CL-A554 1-1/2" = 1'-0"

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

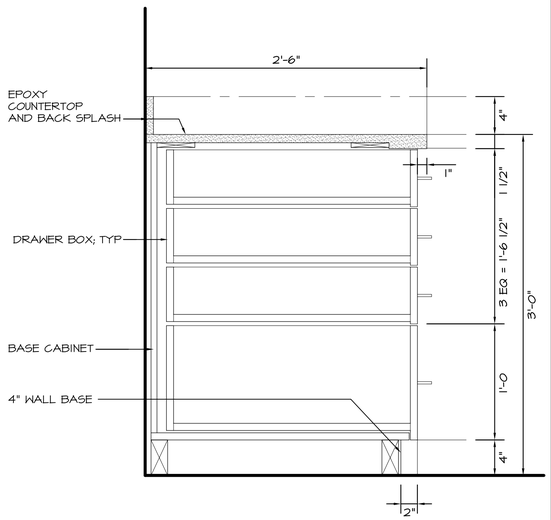


6 DETAIL
CL-A554 1-1/2" = 1'-0"

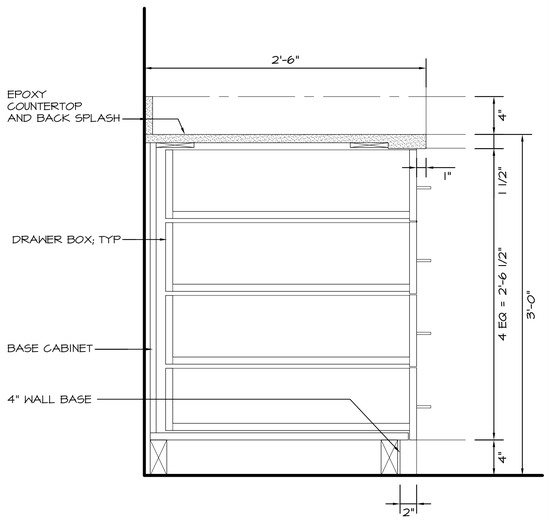
NOTE:
EXTENT OF GLAZING IS INDICATED ON ELEVATIONS. REFER TO 6/CL-A.554 FOR TYPICAL GLAZING DETAILS



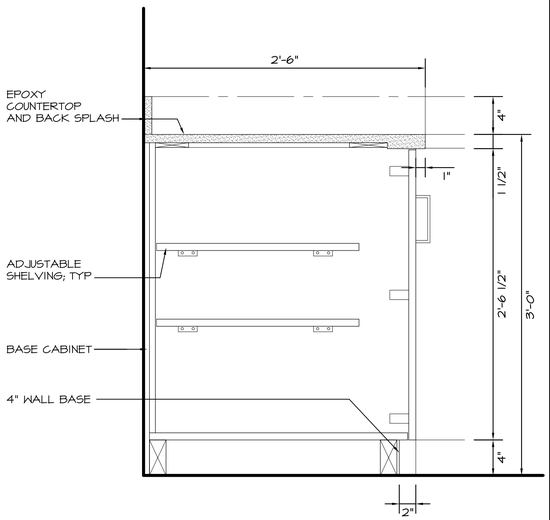
5 DETAIL
CL-A554 1-1/2" = 1'-0"



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



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



2 DETAIL
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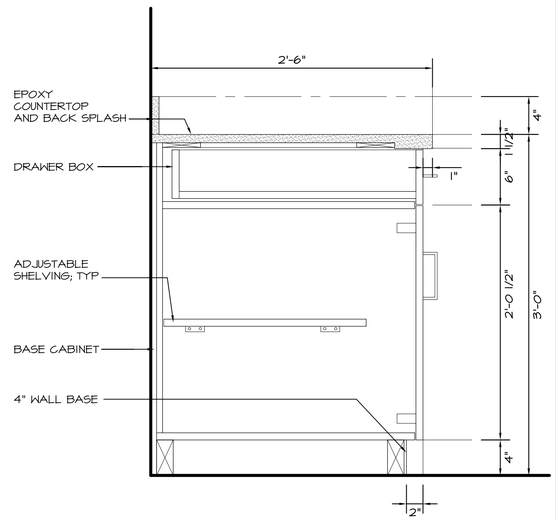

1 DETAIL
CL-A554 1-1/2" = 1'-0"

REVISIONS

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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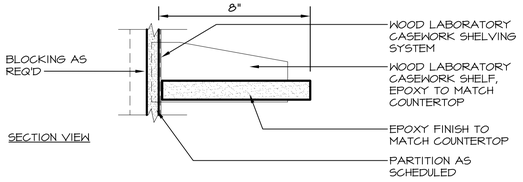
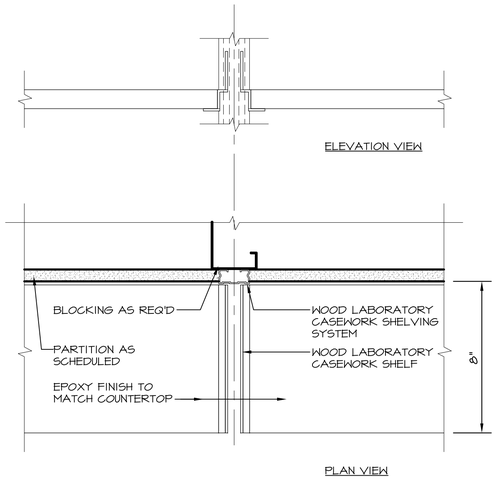
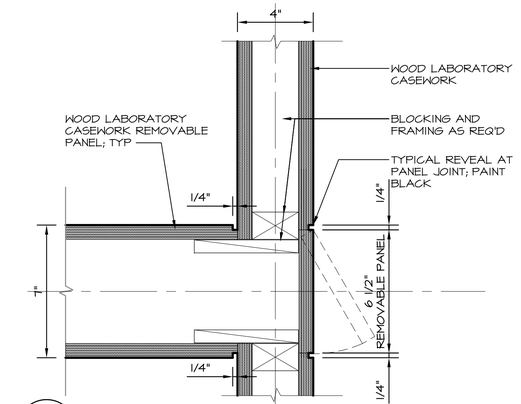
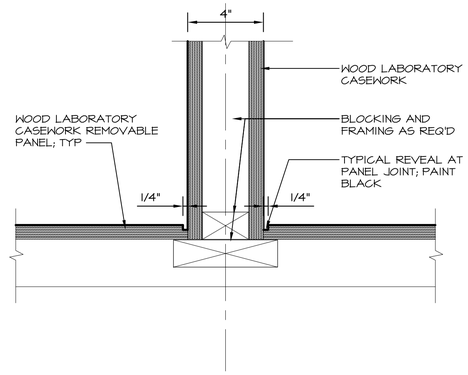


7 CASEWORK DETAIL
CL-A-6555 3" = 1'-0"

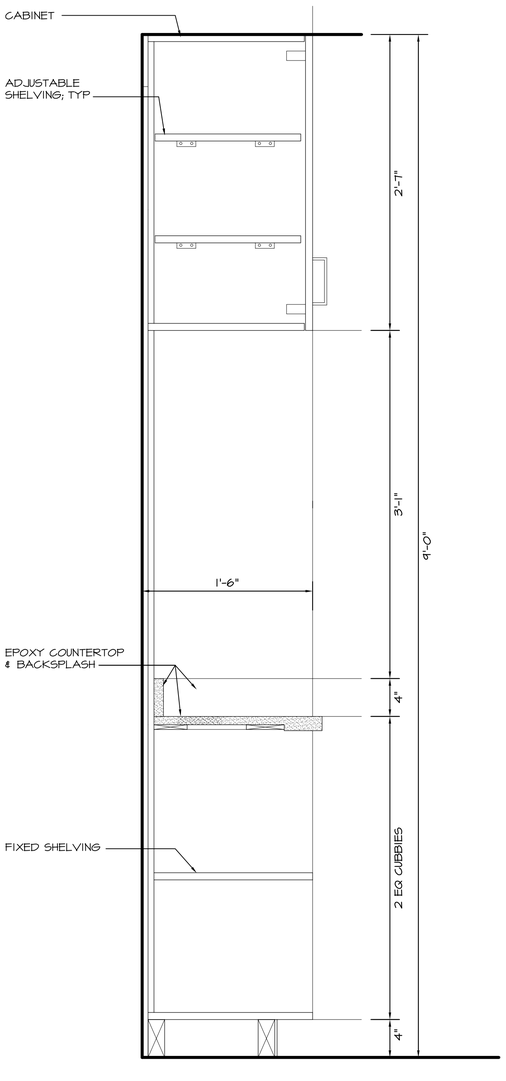




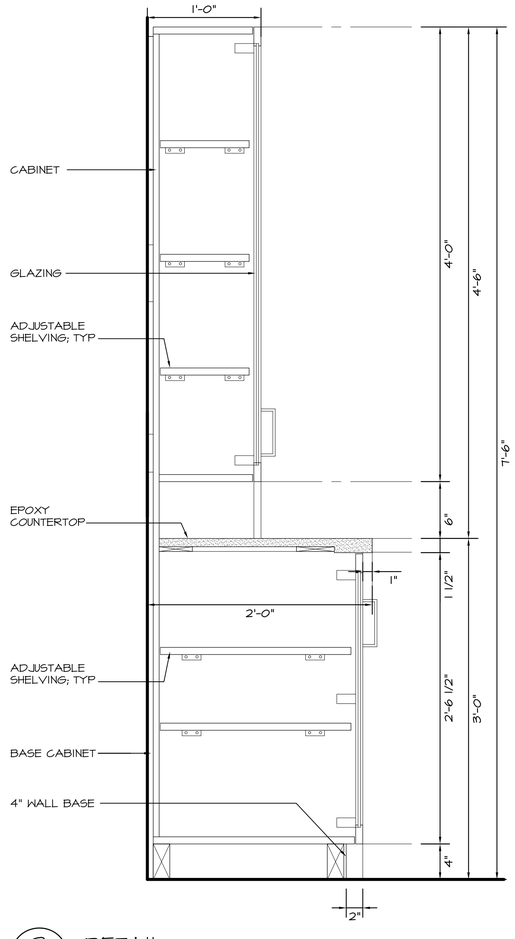
6 CASEWORK DETAIL
CL-A-6555 3" = 1'-0"



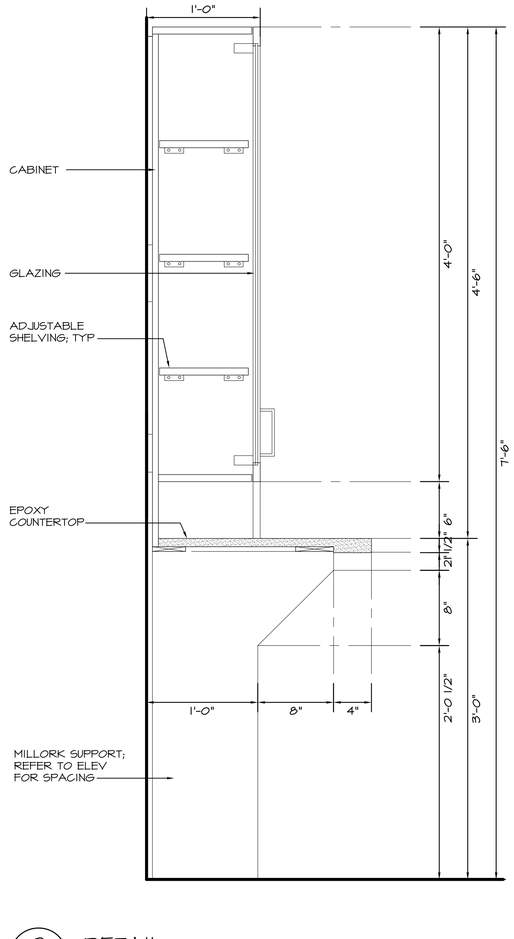
5 CASEWORK DETAIL
CL-A-6555 3" = 1'-0"



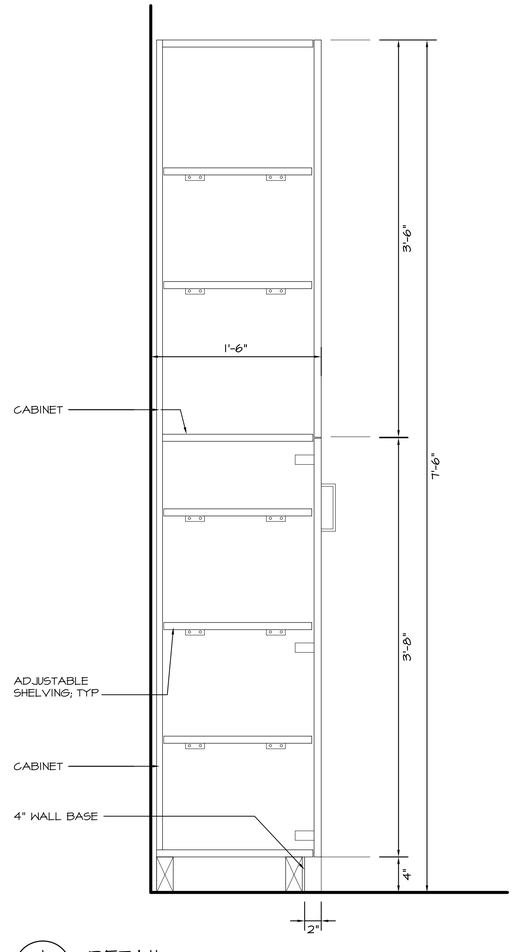
4 DETAIL
CL-A555 1-1/2" = 1'-0"



3 DETAIL
CL-A555 1-1/2" = 1'-0"



2 DETAIL
CL-A555 1-1/2" = 1'-0"



1 DETAIL
CL-A555 1-1/2" = 1'-0"

REVISIONS

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-555

PLOTTED: 8/13/2013 5:16 PM BY: ALEX COLL

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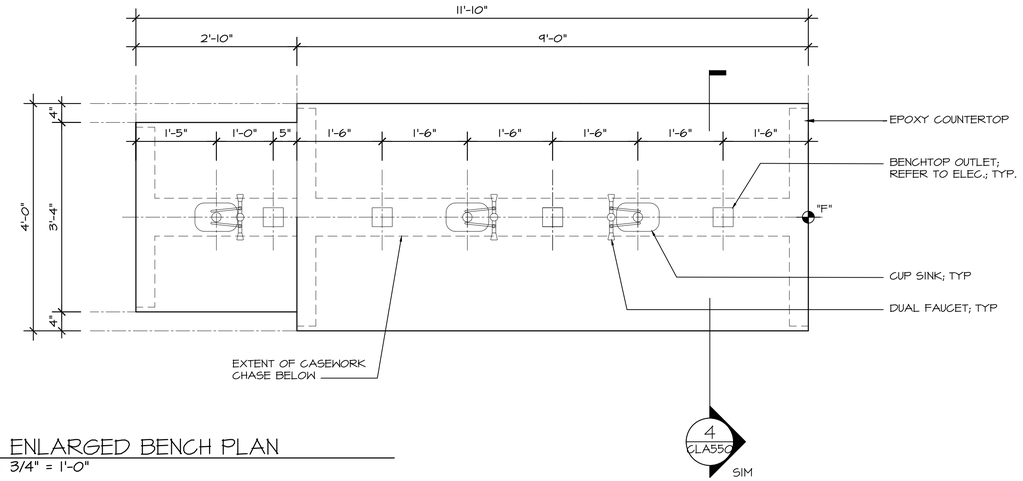
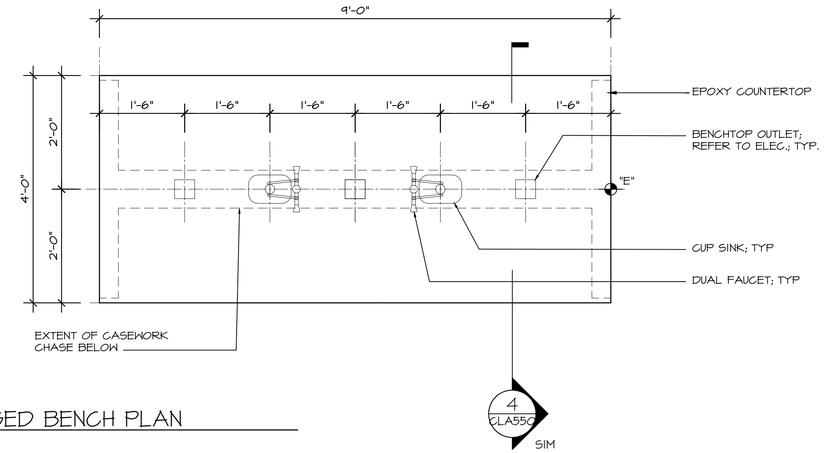
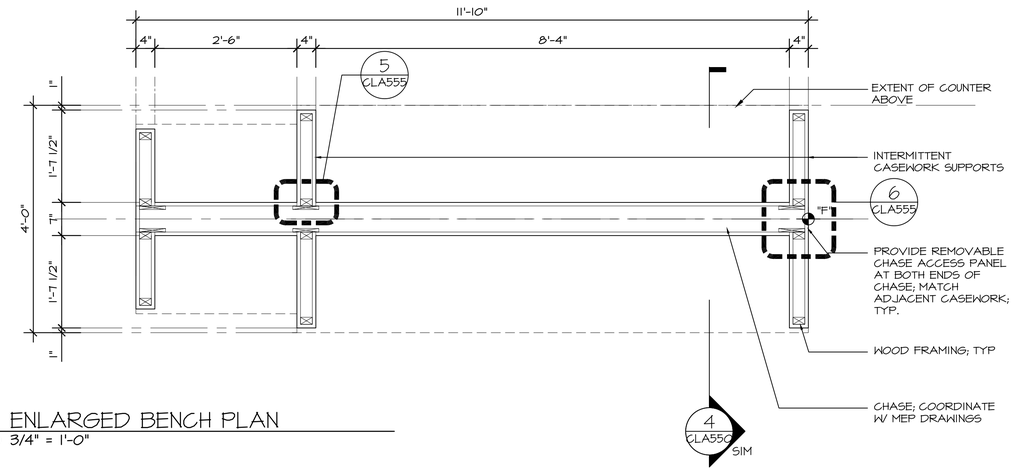


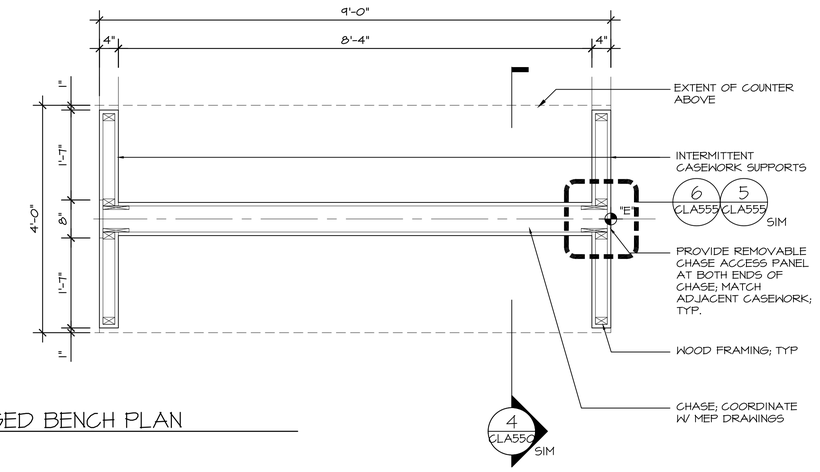
2 ENLARGED BENCH PLAN
CL-A-556 3/4" = 1'-0"



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

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
BIOCHEM LAB
BENCH DETAILS

DATE
AUGUST 9 2013

SCALE
AS NOTED

DRAWN BY
ASC

CHECKED BY
ASC

PROJECT NUMBER
911

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CL-A-556

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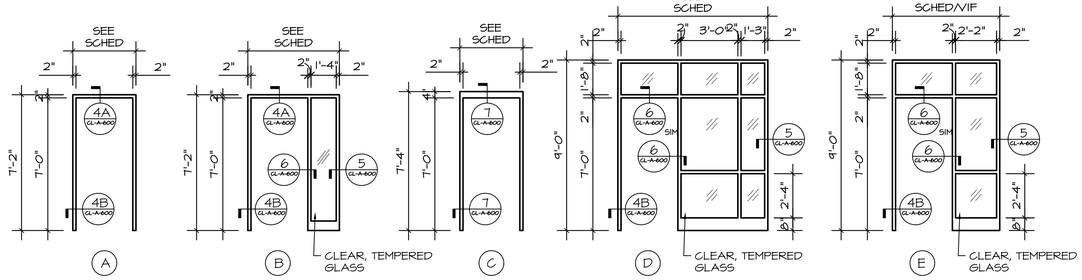
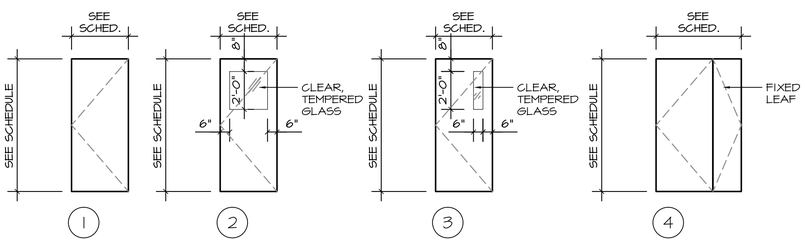
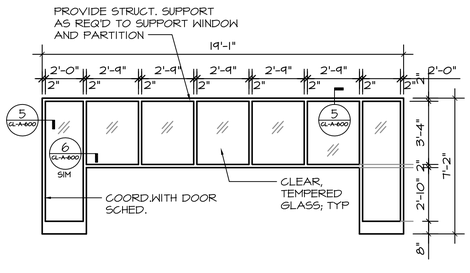


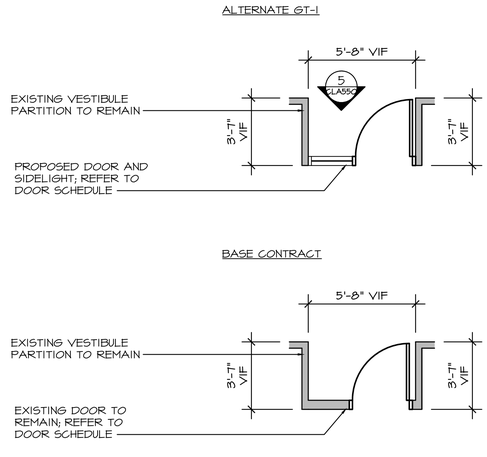
1 FRAME TYPES
CL-A-600 1/4" = 1'-0"



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



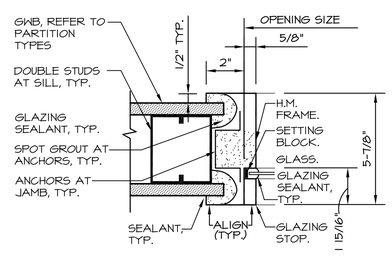
3 BORROWED LITES
CL-A-600 1/4" = 1'-0"



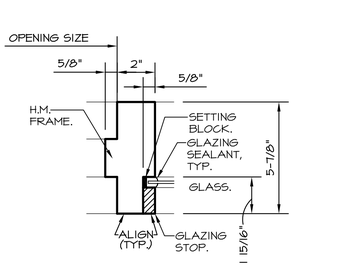
4 ALTERNATE GT-1 DOOR VESTIBULE DETAIL
CL-A-600 1/4" = 1'-0"

DOOR SCHEDULE

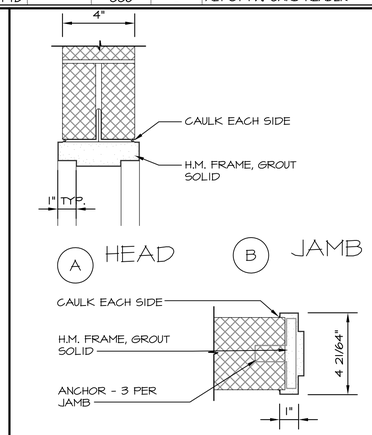
DOOR NUMBER	FROM	TO	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FIN	HARDWARE SET	RATING	REMARKS
PHASE A														
W4-21	INSTRUMENT LAB W4-21	EXST. CORR. W4-T6	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
W4-22A	ORGANIC CHEM LAB W4-22	EXST. CORR. W4-T6	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
W4-22B	ORGANIC CHEM LAB W4-22	EXST. CORR. W4-T6	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
W4-22C	ORGANIC CHEM LAB W4-22	PREP ROOM W4-50	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN
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	005	-	-
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	003	-	-
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	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
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	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
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	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
W4-41A	CHEM LAB W4-41	CHEM LAB W4-41	-	-	-	-	-	-	-	-	PTD	-	-	EXST. TO REMAIN (BASE CONTRACT)
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														
W4-21	INSTRUMENT LAB W4-21	EXST. CORR. W4-T6	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-T6	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-T6	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



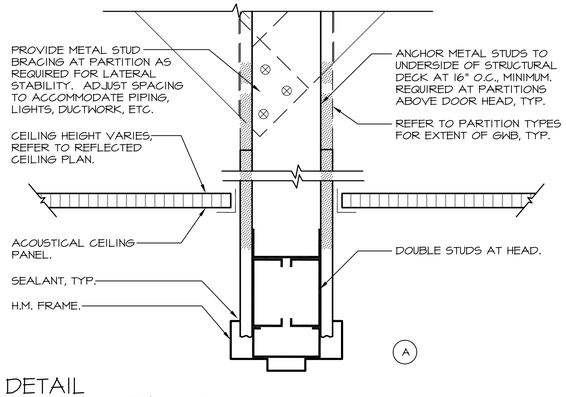
5 DETAIL: BORROWED LITE HEAD/JAMB
CL-A-600 3" = 1'-0"



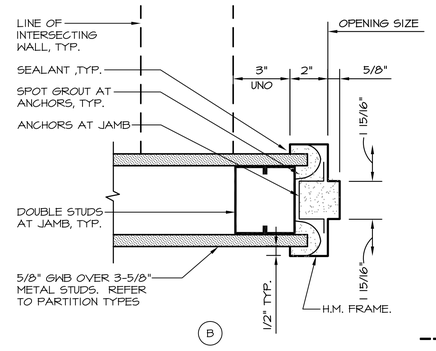
6 DETAIL: BORROWED LITE/DOOR JAMB
CL-A-600 3" = 1'-0"



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



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



REVISIONS

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
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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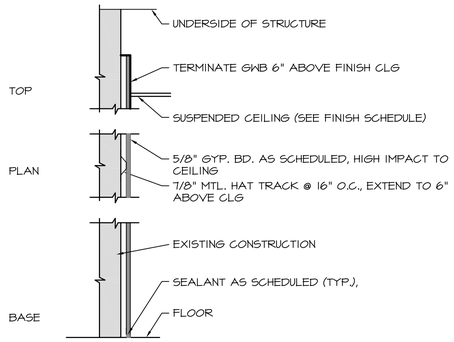
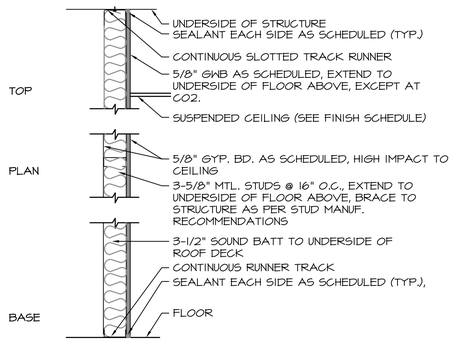


NOTE: SEE FINISH SCHEDULE FOR BASE TYPE AND LOCATION

PARTITION TYPES A

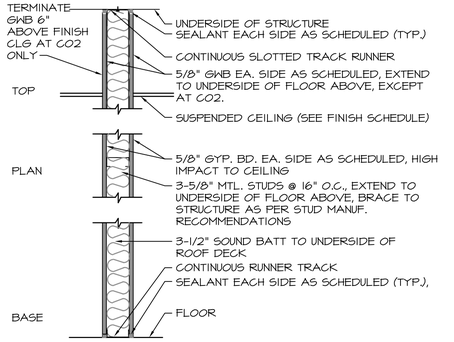
	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
A01	-	-	-	-	GWB TO 6" ABOVE CLG



NOTE: SEE FINISH SCHEDULE FOR BASE TYPE AND LOCATION

PARTITION TYPES B

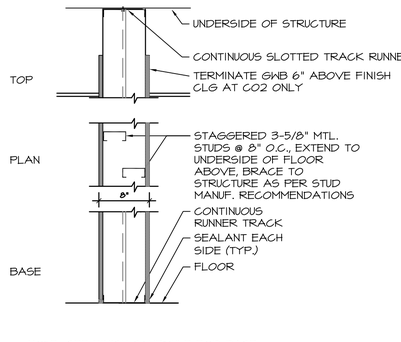
	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
B01	-	-	-	-	-



NOTE: SEE FINISH SCHEDULE FOR BASE TYPE AND LOCATION

PARTITION TYPES C

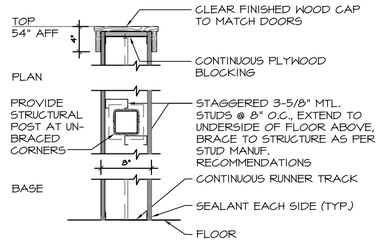
	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
C02	-	-	-	3-1/2" SOUND BATT	GWB TO 6" ABOVE CLG
C03	-	-	-	3-1/2" SOUND BATT	STC-40 RATING (USG-860808)
C04	-	-	-	3-1/2" SOUND BATT	STC-49 RATING (SA-870717)
C05	1 - HR.	U465	5/8" TYPE X	3-1/2" SOUND BATT	STC-49 RATING (SA-870717)
C06	2 - HR.	U415	5/8" TYPE X	3-1/2" SOUND BATT	SHAFTWALL; TYP SECT SIM



NOTE: SEE FINISH SCHEDULE FOR BASE TYPE, LOCATION AND HEIGHT

PARTITION TYPE C

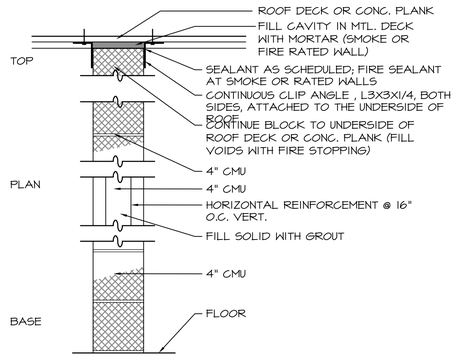
	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
C17	NONE	-	-	-	-



NOTE: SEE FINISH SCHEDULE FOR BASE TYPE

PARTITION TYPE C

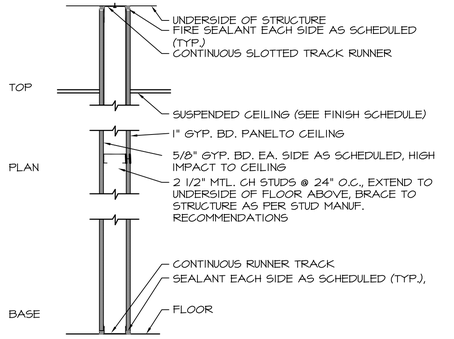
	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
C18	NONE	-	-	-	-



NOTE: SEE FINISH SCHEDULE FOR BASE TYPE AND LOCATION

PARTITION TYPE M

	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
M01	NONE	-	-	-	-



NOTE: SEE FINISH SCHEDULE FOR BASE TYPE AND LOCATION

PARTITION TYPES F

	RATING	U.L. #	SPECIAL GWB	INSULATION	REMARKS
F01	1 HOUR	U415	5/8" TYPE X		

1 PARTITION TYPES
CL-A-601 1" = 1'-0"

REVISIONS

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
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DRAWING TITLE
PARTITION TYPES

DATE
MARCH 14, 2013

SCALE
AS NOTED

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CRS

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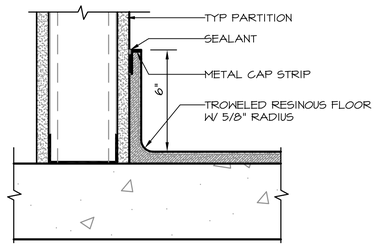
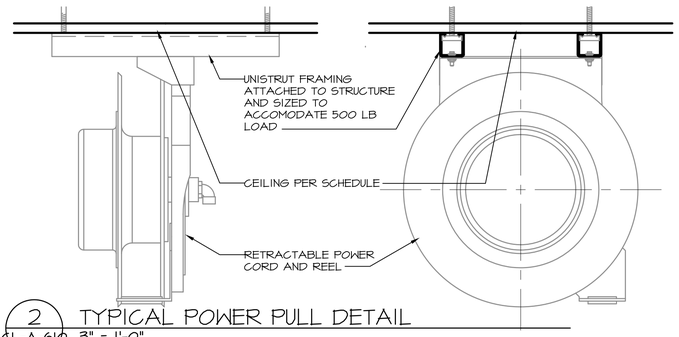
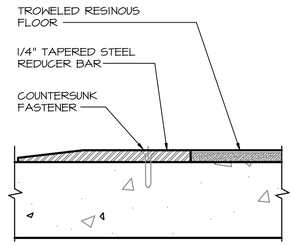


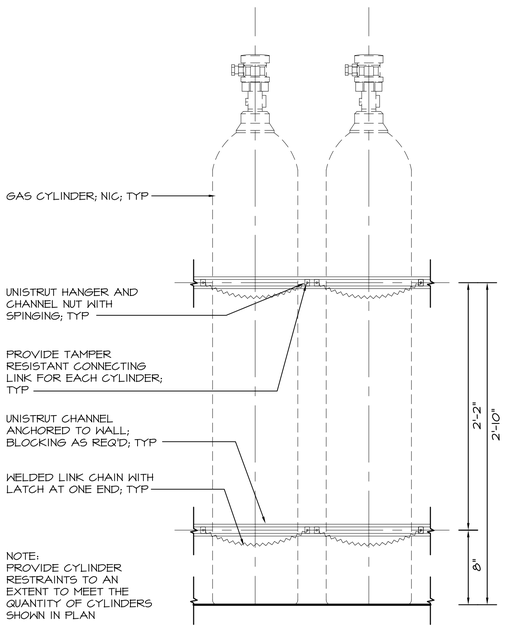
1 CL-A-610 TYPICAL BASE DETAIL AT RESINOUS FLOOR
3" = 1'-0"



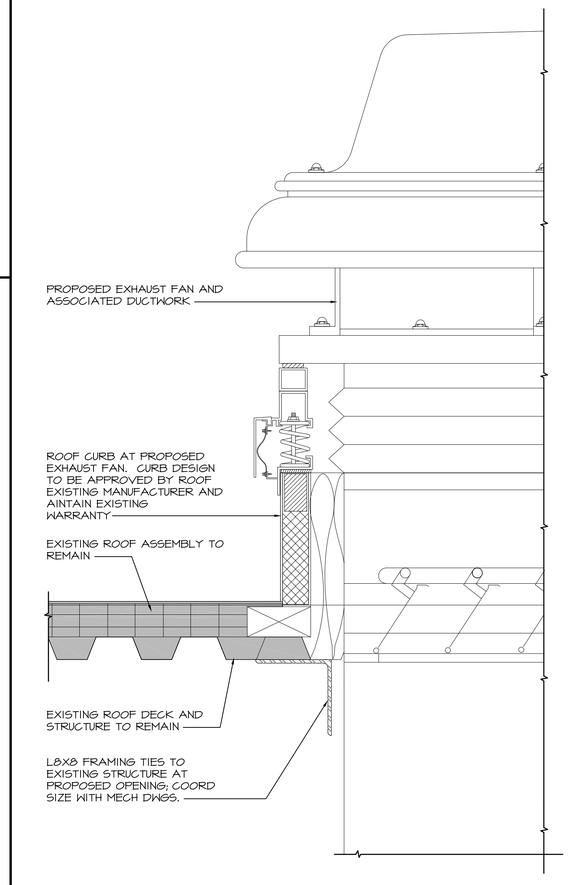
2 CL-A-610 TYPICAL POWER PULL DETAIL
3" = 1'-0"



5 CL-A-610 TYPICAL DETAIL @ RES. FLR TRANSITION
3" = 1'-0"



3 CL-A-610 TYPICAL DETAIL AT GAS CYLINDER RESTRAINT
3" = 1'-0"



3 CL-A-610 TYPICAL DETAIL AT PROPOSED ROOF OPENING
3" = 1'-0"

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	CEILING	WALL	ACCENT	DR FR	BASE	FLOOR	FLOOR PATTERN	MILLWORK	ACCESSORY GROUP	REMARKS	PHASE
PHASE A												
W4-21	INSTRUMENT LAB	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.A	SEE ELEVS			
W4-22	ORGANIC CHEM LAB	A1	P1		P16	R1	R1,R2,R3	SEE CL-A-614.A	SEE ELEVS			
PHASE B												
W4-27	MULTIDISCIP/BIOCHEM LAB	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.B	SEE ELEVS			
W4-28	PREP ROOM	A1	P1	-	P16	R1	R1	SEE CL-A-614.B	SEE ELEVS			
W4-28A	DATA CLOSET	A1	P1	-	P16	R1	R1	SEE CL-A-614.B	SEE ELEVS			
W4-29	STORAGE	A1	P1	-	P16	R1	R1	SEE CL-A-614.B	SEE ELEVS			
W4-37	ENGINEERING/ENG. TECH	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.B	SEE ELEVS			
W4-44	CHEM LAB	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.B	SEE ELEVS			
W4-47	CHEM LAB	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.B	SEE ELEVS			
W4-50	PREP ROOM	A1	P1	-	P16	R1	R1	SEE CL-A-614.B	SEE ELEVS			
W4-60	ALCOVE	A1	P1	-	P16	RB4	L5	SEE CL-A-614.B				
PHASE C												
W4-38	RESEARCH LAB	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.C	SEE ELEVS			
W4-41	CHEM LAB	A1	P1	-	P16	R1	R1,R2,R3	SEE CL-A-614.C	SEE ELEVS			

NOTES:

1. ALL RESINOUS FLOOR FINISHES TO BE CONTINUOUS THROUGHOUT A GIVEN SPACE, INCLUDING UNDER MILLWORK AND EQUIPMENT.

FINISHES:

CEILING FINISHES:

(A1) - ACOUSTICAL CEILING TILE
MANUFACTURER: ARMSTRONG
STYLE: CIRRUS STRONG TEXTURE
SIZE: 2'x4'x ¾"
GRID: 15/16" PRELUDE
ITEM: 595

WALL FINISHES:

(P1) - PAINT, GENERAL WALLS
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW1637 OYSTER WHITE
FINISH: EGGSHELL

(P16) - PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7045 INTELLECTUAL GRAY
FINISH: SEMI-GLOSS

MASONRY:

(M-1) - CMU TYPE 1
MANUFACTURER: -
STYLE: GROUND FACE
COLOR: MATCH EXISTING CMU

FLOOR FINISHES:

(RB4) - RUBBER BASE
MANUFACTURER: ROPPE
STYLE: 4"H COVE
COLOR: 114 LUNAR DUST

(L1) - LINOLEUM 1
MANUFACTURER: FORBO MARMOLEUM
STYLE: REAL
WELDING ROD: R 3139
COLOR: 3139 LAVA

(L2) - LINOLEUM 2
MANUFACTURER: FORBO MARMOLEUM
STYLE: VIVACE
WELDING ROD: MC 3405
COLOR: 3405 GRANADA

(L5) - LINOLEUM 5
MANUFACTURER: FORBO
STYLE: FRESCO
WELDING ROD: R3203
COLOR: 3203 HENNA

FLOOR FINISHES (CONT'D):

(R1) - RESINOUS FLOOR
MANUFACTURER: DEX-O-TEX
BODY COAT: DECORFLOR TROWELED BODY COAT
TOP COAT: QUIK-GLAZE
COLOR: SUBMIT FOR ARCHITECT APPROVAL

(R2) - RESINOUS FLOOR
MANUFACTURER: DEX-O-TEX
BODY COAT: DECORFLOR TROWELED BODY COAT
TOP COAT: QUIK-GLAZE
COLOR: SUBMIT FOR ARCHITECT APPROVAL

(R3) - RESINOUS FLOOR
MANUFACTURER: DEX-O-TEX
BODY COAT: DECORFLOR TROWELED BODY COAT
TOP COAT: QUIK-GLAZE
COLOR: SUBMIT FOR ARCHITECT APPROVAL

(C4) - CARPET 4
MANUFACTURER: SHAW
STYLE: 1 2 SQUARE EW24 59343
COLOR: OLD FASHIONED 90400
FIBER: 100% SOLUTION DYED
BACKING: ECO WORX
DIM: 24"X24" TILE
NOTE: CARPETS C4, C5, AND C6 TO BE INSTALLED IN A RANDOM PATTERN IN EQ AMOUNTS.

(C5) - CARPET 5
MANUFACTURER: SHAW
STYLE: 2 SQUARE EW24 59341
COLOR: OLD FASHIONED 90400
FIBER: 100% SOLUTION DYED
BACKING: ECO WORX
DIM: 24"X24" TILE
NOTE: CARPETS C4, C5, AND C6 TO BE INSTALLED IN A RANDOM PATTERN IN EQ AMOUNTS.

(C6) - CARPET 6
MANUFACTURER: SHAW
STYLE: 4 SQUARE EW24 59342
COLOR: OLD FASHIONED 90400
FIBER: 100% SOLUTION DYED
BACKING: ECO WORX
DIM: 24"X24" TILE
NOTE: CARPETS C4, C5, AND C6 TO BE INSTALLED IN A RANDOM PATTERN IN EQ AMOUNTS.

REVISIONS

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
FINISH SCHEDULE & MISC. DETAILS

DATE MARCH 14, 2013
SCALE AS NOTED
DRAWN BY RME
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-610

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PLOTTED: 8/13/2013 5:16 PM BY: ALEX COLL

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KEY:

R1

R2

R3

L5

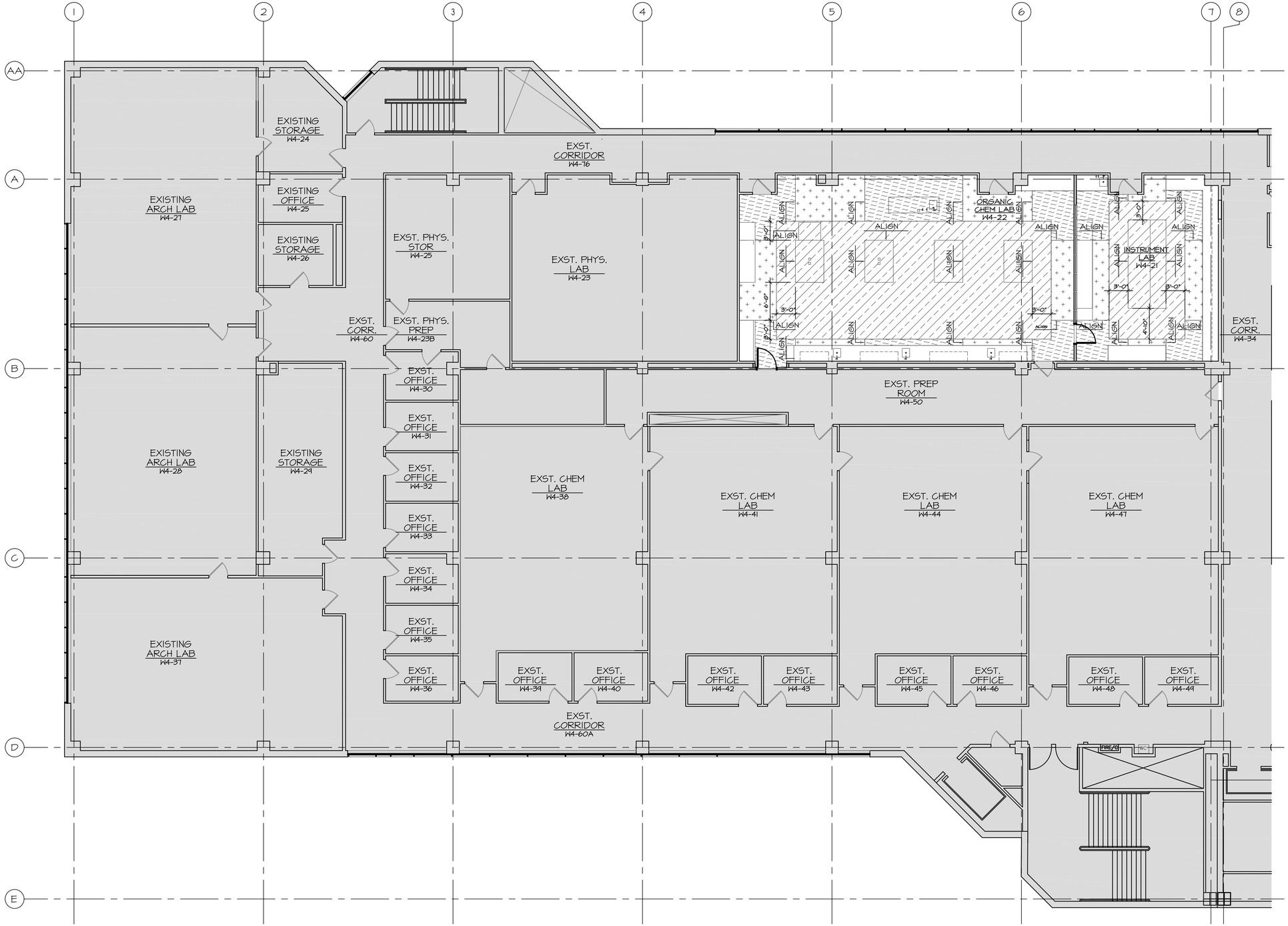
NOTES:

1. ALL PROPOSED GWB PARTITIONS FACING A PUBLIC CORRIDOR SHALL RECEIVE P2O UNO.

2. REFER TO CL-A-610 FOR FINISH SCHEDULE.

3. FLOOR FINISHES ARE SHOWN TO DOCUMENT PATTERNS; REFER TO FINISH SCHEDULE FOR FULL EXTENT OF FINISHES.

4. ALL RESINOUS FLOOR FINISHES TO BE CONTINUOUS THROUGHOUT A GIVEN SPACE, INCLUDING UNDER MILLWORK AND EQUIPMENT.



1 CL-A-614.A FOURTH FLOOR FINISH PLAN - PHASE A

1/8" = 1'-0"

1' 4' 20'

0 2' 10'

PROJECT NORTH

PLOTTED: 8/13/2013 5:16 PM BY: ALEX COLL

REVISIONS

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 FINISH PLAN - PHASE A

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
RME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-614.A

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KEY:

R1
R2
R3
L5

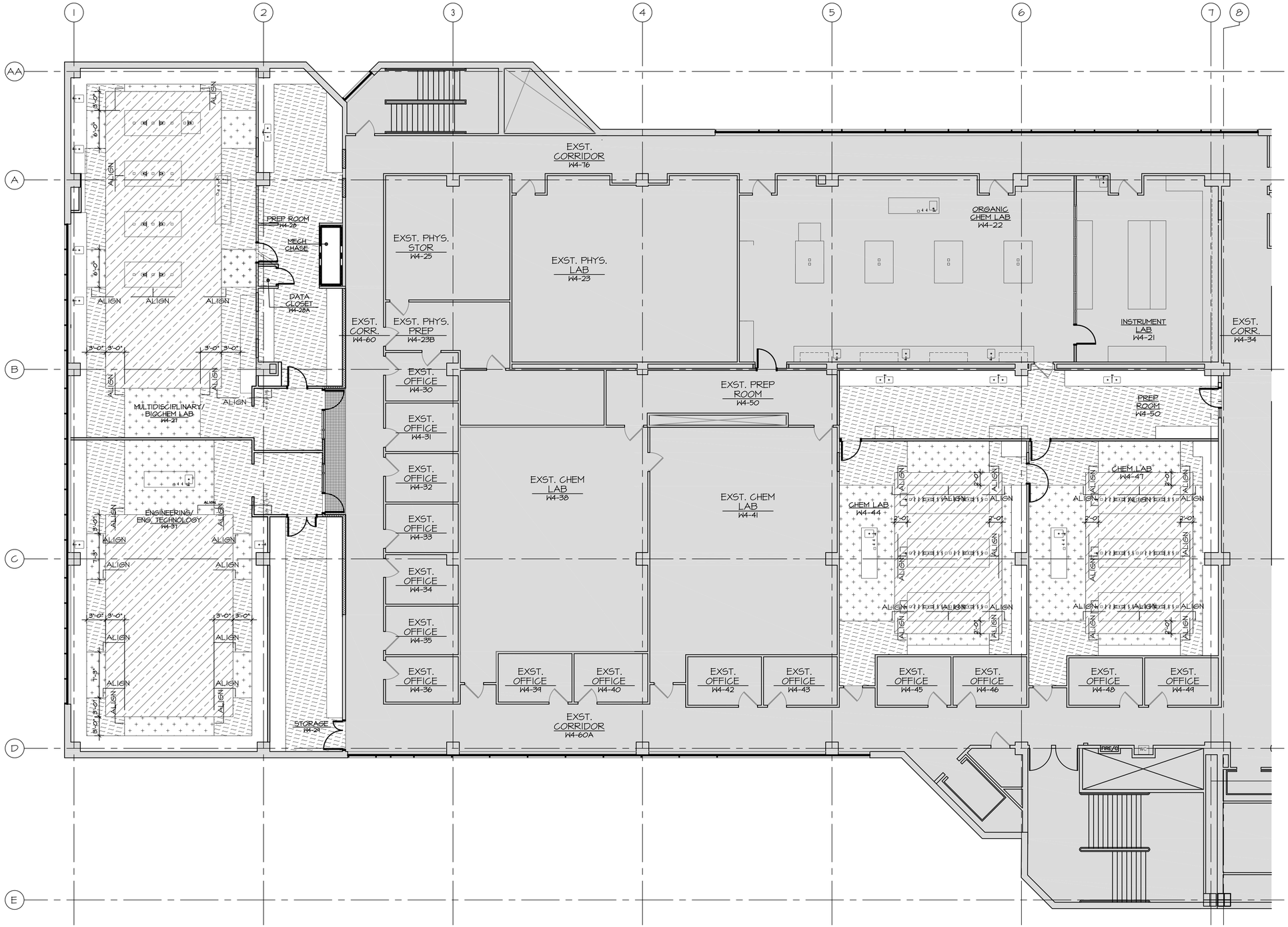
NOTES:

1. ALL PROPOSED GWB PARTITIONS FACING A PUBLIC CORRIDOR SHALL RECEIVE P20 UNO.

2. REFER TO CL-A-610 FOR FINISH SCHEDULE.

3. FLOOR FINISHES ARE SHOWN TO DOCUMENT PATTERNS; REFER TO FINISH SCHEDULE FOR FULL EXTENT OF FINISHES.

4. ALL RESINOUS FLOOR FINISHES TO BE CONTINUOUS THROUGHOUT A GIVEN SPACE, INCLUDING UNDER MILLWORK AND EQUIPMENT.



1 FOURTH FLOOR FINISH PLAN - PHASE B
CL-A-614.B
1/8" = 1'-0"

1' 4' 20'
0 2' 10'

PROJECT NORTH

PLOTTED: 8/13/2013 5:16 PM BY: ALEX COLL

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS
WEST BUILDING RENOVATIONS

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PHILADELPHIA, PA 19130

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Architecture Urban Planning
Historic Preservation
1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE
FOURTH FLOOR FINISH PLAN - PHASE B

DATE
MARCH 14, 2013

SCALE
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ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-614.B

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KEY:

R1

R2

R3

L5

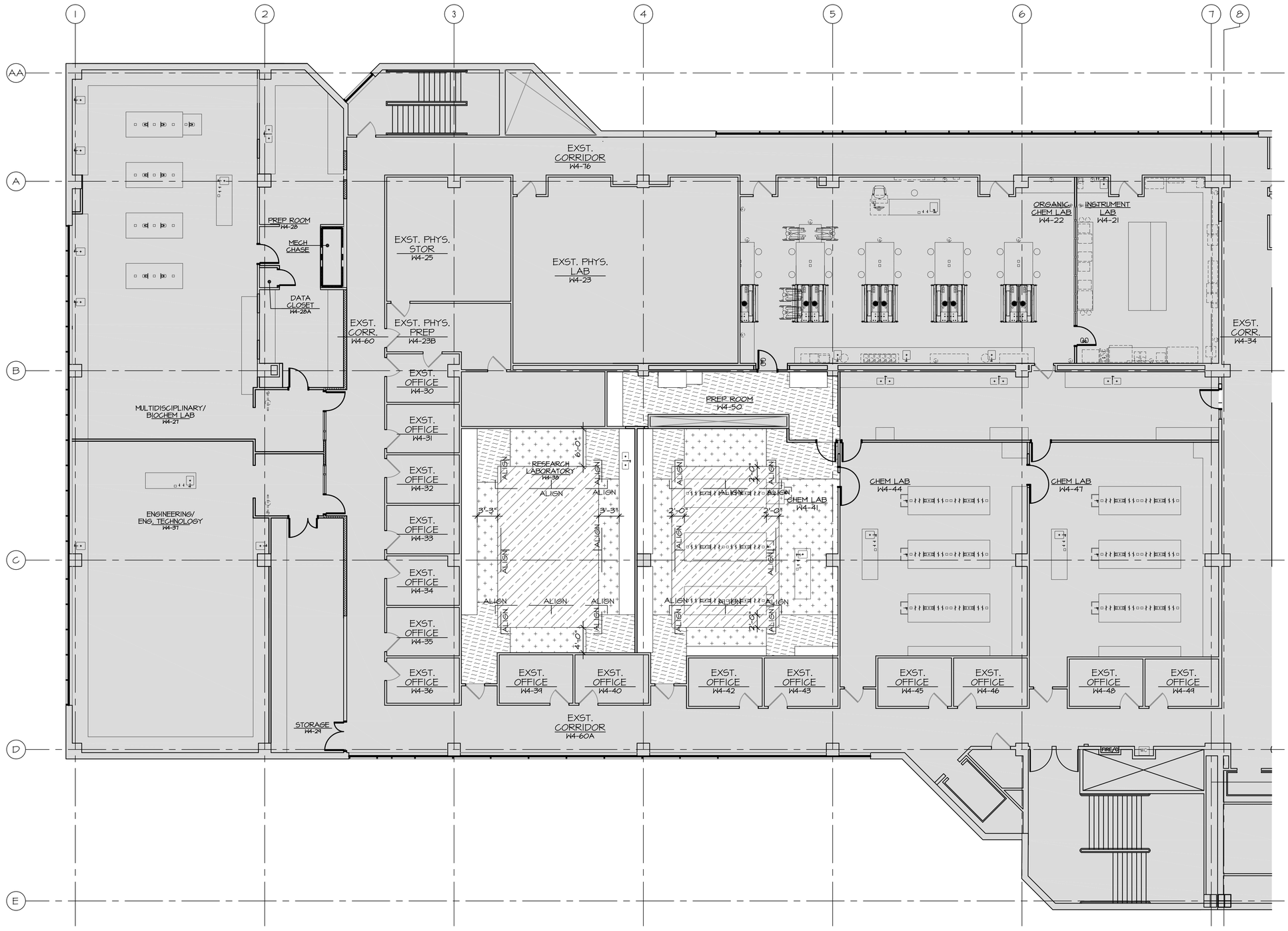
NOTES:

1. ALL PROPOSED GWB PARTITIONS FACING A PUBLIC CORRIDOR SHALL RECEIVE P2O UNO.

2. REFER TO CL-A-610 FOR FINISH SCHEDULE.

3. FLOOR FINISHES ARE SHOWN TO DOCUMENT PATTERNS, REFER TO FINISH SCHEDULE FOR FULL EXTENT OF FINISHES.

4. ALL RESINOUS FLOOR FINISHES TO BE CONTINUOUS THROUGHOUT A GIVEN SPACE, INCLUDING UNDER MILLWORK AND EQUIPMENT.



1 CL-A-614.C
FOURTH FLOOR FINISH PLAN - PHASE C
1/8" = 1'-0"

1' 4' 20'
0 2' 10'

PROJECT NORTH

REVISIONS

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 FINISH PLAN - PHASE C

DATE
MARCH 14,2013

SCALE
AS NOTED

DRAWN BY
RME

CHECKED BY
ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-614.C

PLOTTED: 8/13/2013 5:16 PM BY: ALEX COLL

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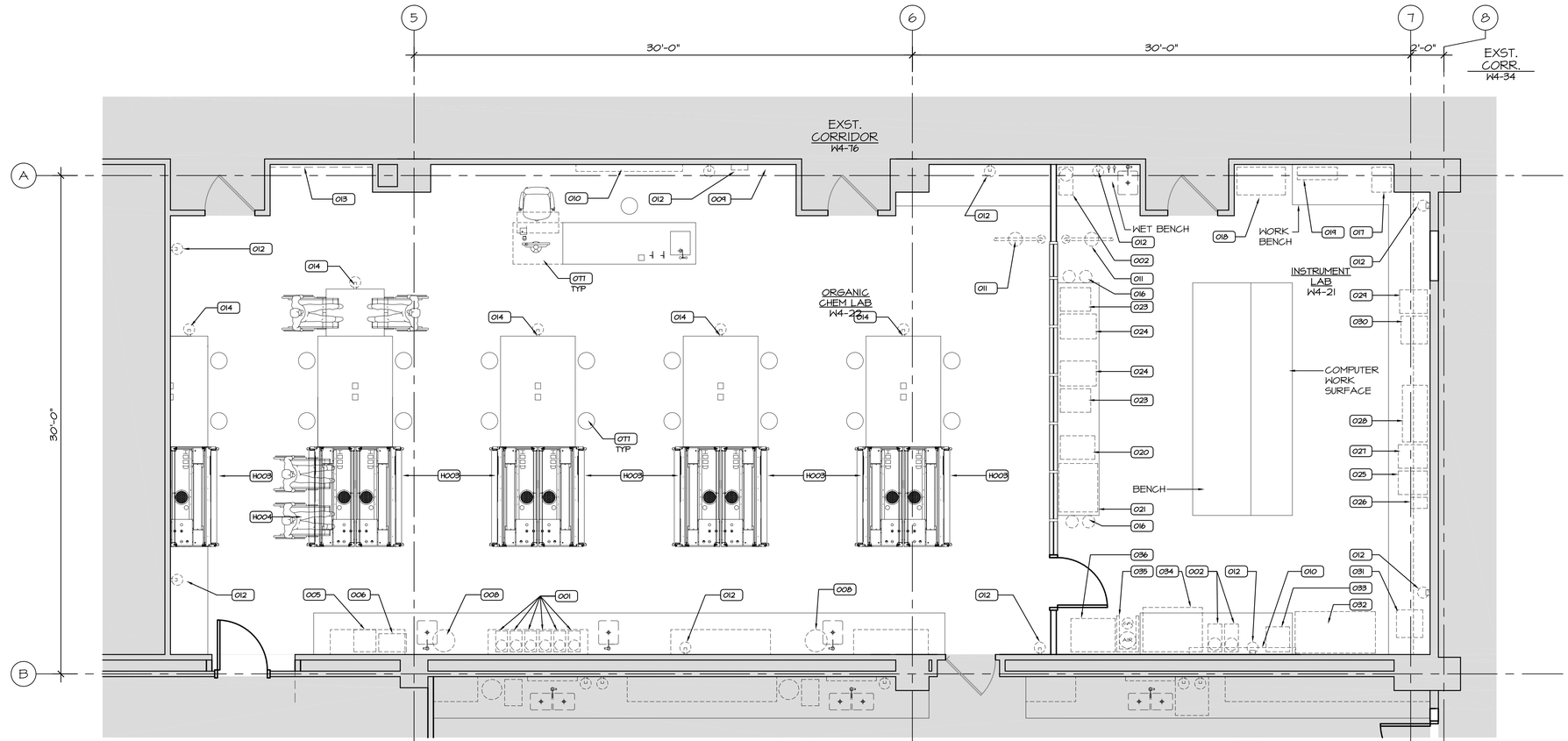

NOTES:

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

PLOTTED: 8/13/2013 5:16 PM BY: ALEX COLL

REVISIONS

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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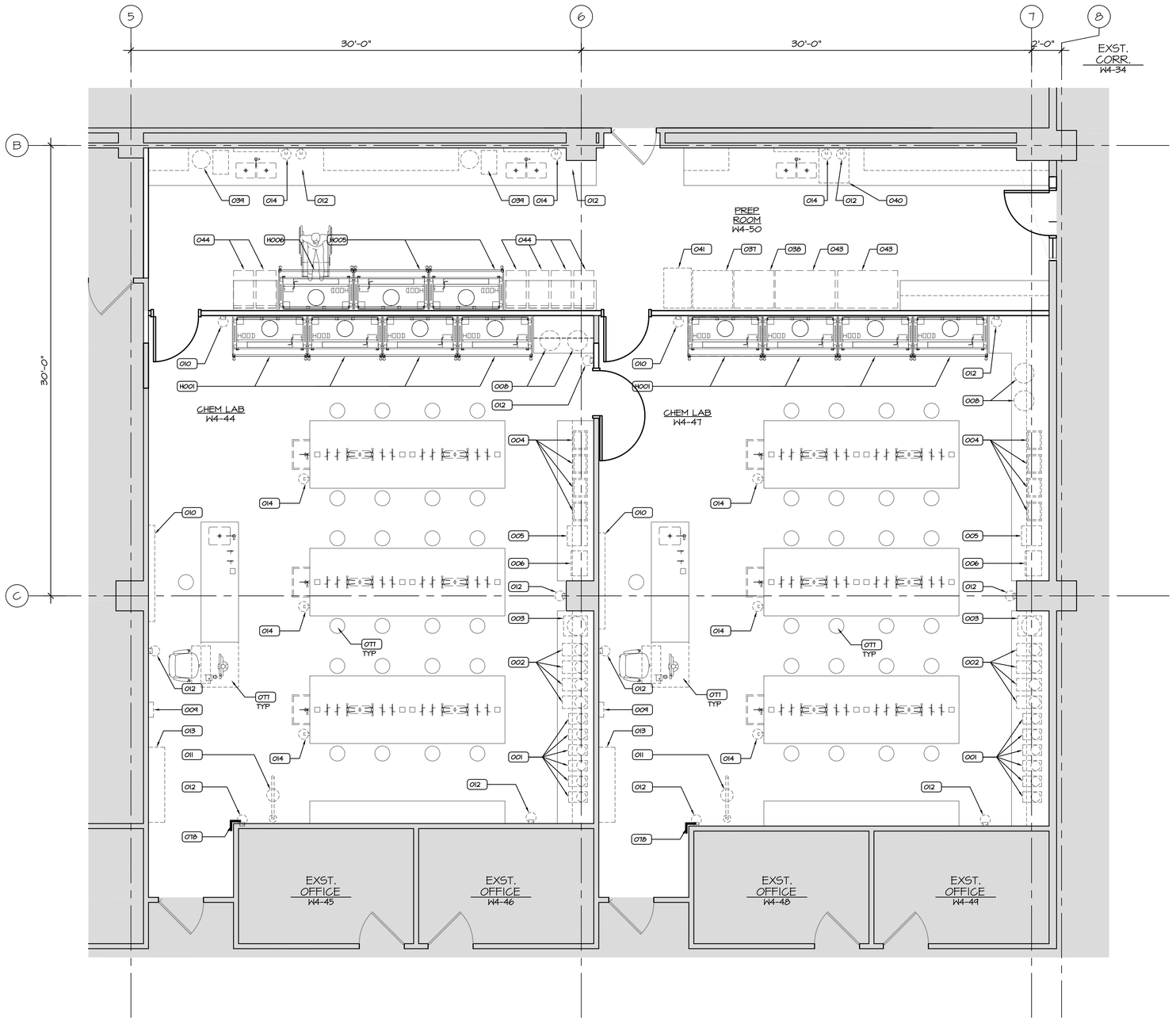

1 CL-A-901

FOURTH FLOOR PLAN
PHASE B - PARTIAL EQUIPMENT PLAN

1/4" = 1'-0"

PROJECT NORTH

NOTE: SEE DWG A-900 FOR EQUIPMENT LIST

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REVISIONS

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 B

DATE
MARCH 14, 2013

SCALE
AS NOTED

DRAWN BY
ASC

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ASC

PROJECT NUMBER
911

DRAWING NUMBER
CL-A-901

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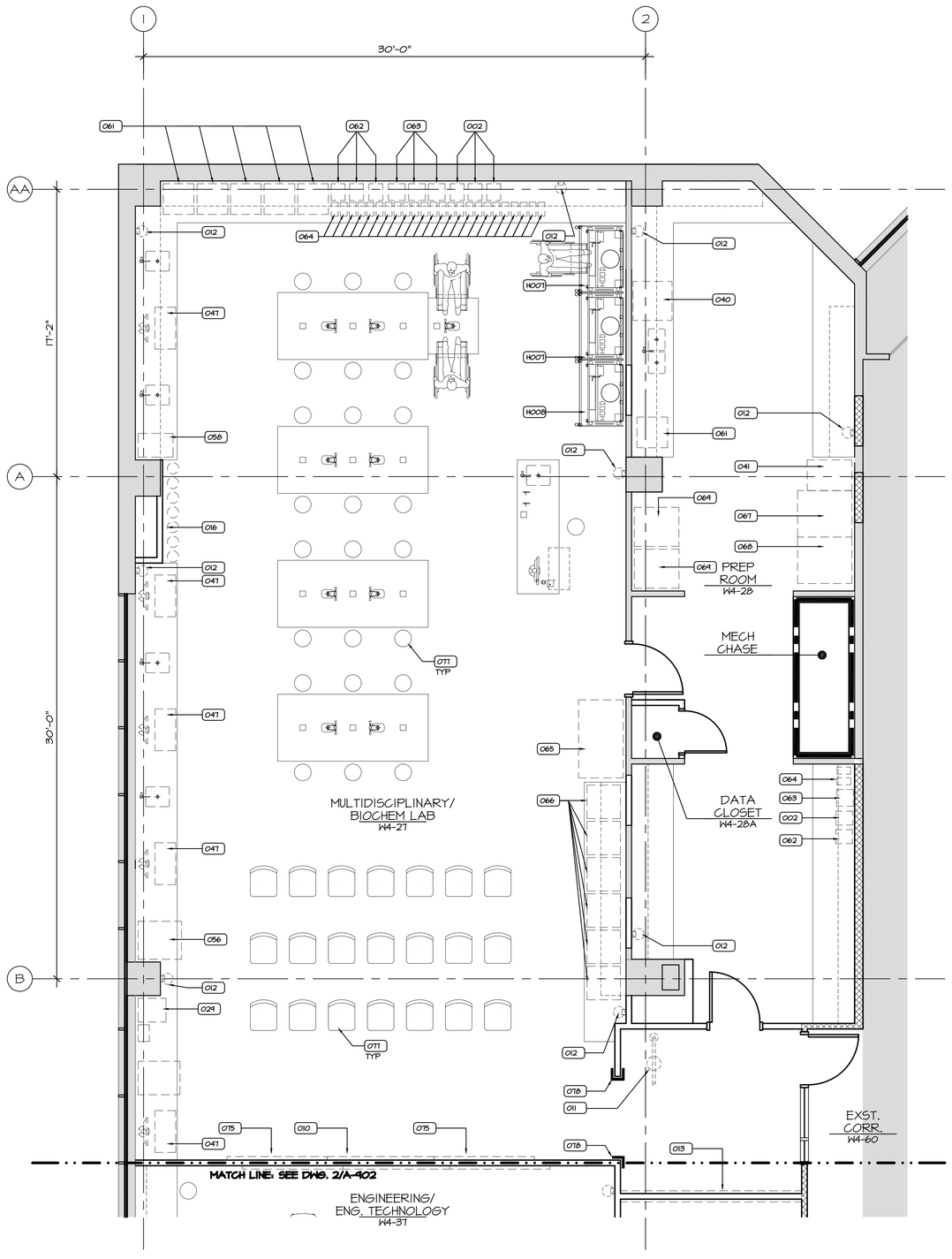
1
2
30'-0"
AA
A
B
17'-2"
30'-0"
061
062
063
002
064
012
HOOT
HOOT
HOOB
040
061
041
069
067
068
069
PREP ROOM W4-28
MECH CHASE
065
066
064
063
002
062
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012
012
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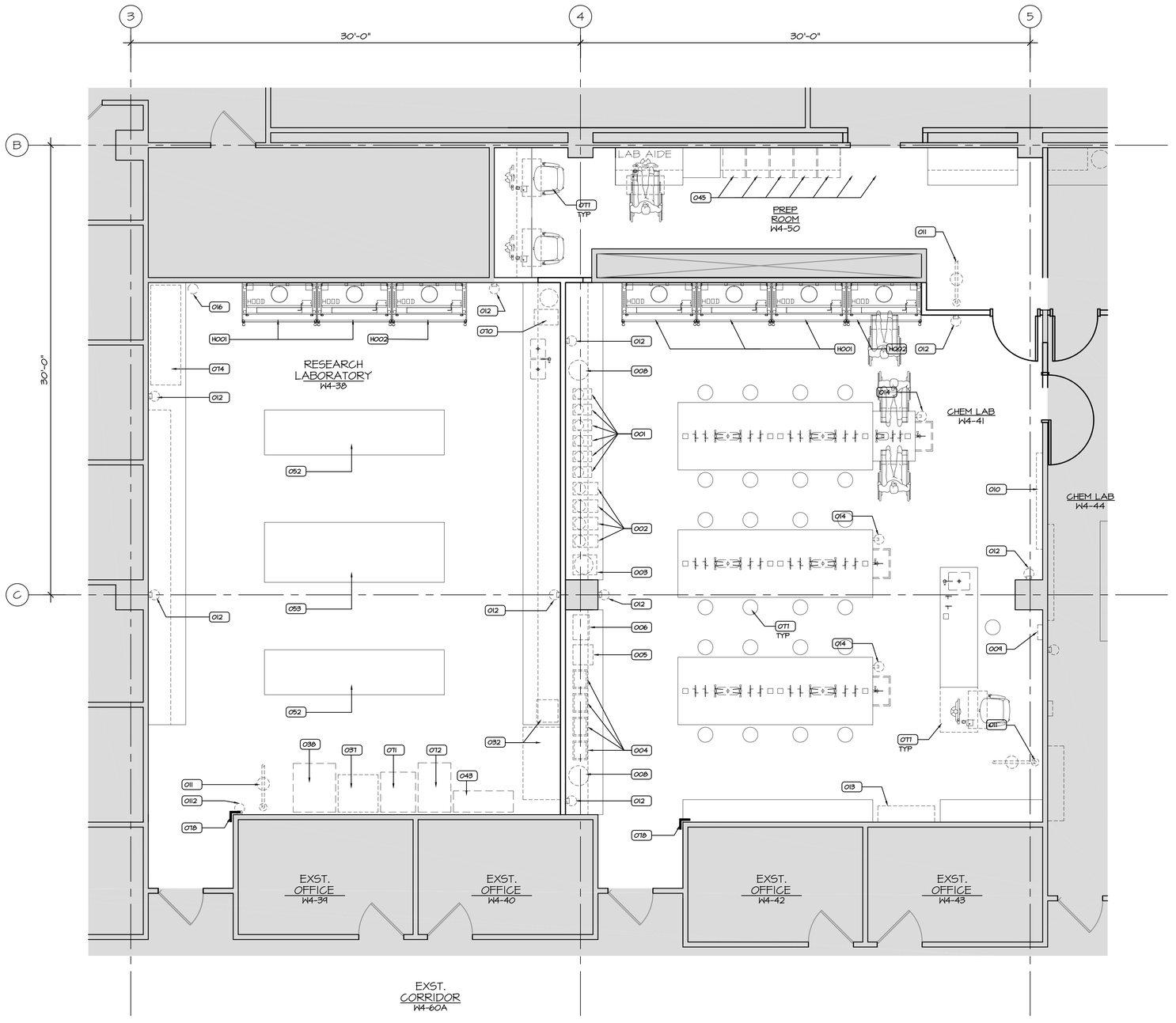

1 / CL-A-903 FOURTH FLOOR PLAN
PHASE C - PARTIAL EQUIPMENT PLAN
1/4" = 1'-0"

PROJECT NORTH

NOTE: SEE DWG A-900 FOR EQUIPMENT LIST

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS
WEST BUILDING RENOVATIONS

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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 C

DATE JULY 19, 2013
SCALE AS NOTED
DRAWN BY ASC
CHECKED BY ASC
PROJECT NUMBER 911
DRAWING NUMBER CL-A-903

PLOTTED: 8/13/2013 5:17 PM BY: ALEX COLL

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HVAC / PLUMBING SYMBOLS

- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- GCHWS — GLYCOL CHILLED WATER SUPPLY
- GCHWR — GLYCOL CHILLED WATER RETURN
- DTWS — DUAL TEMPERATURE WATER SUPPLY
- DTWR — DUAL TEMPERATURE WATER RETURN
- EHWS — EXTERIOR HOT WATER SUPPLY
- EHWR — EXTERIOR HOT WATER RETURN
- HWS — HOT WATER SUPPLY (HEATING)
- HWR — HOT WATER RETURN (HEATING)
- GHWS — GLYCOL HOT WATER SUPPLY (HEATING)
- GHWR — GLYCOL HOT WATER RETURN (HEATING)
- MTWS — MEDIUM TEMPERATURE WATER SUPPLY
- MTWR — MEDIUM TEMPERATURE WATER RETURN
- HTWS — HIGH TEMPERATURE WATER SUPPLY
- HTWR — HIGH TEMPERATURE WATER RETURN
- HPS — HIGH PRESSURE STEAM (HPS)
- MPS — MEDIUM PRESSURE STEAM (MPS)
- LPS — LOW PRESSURE STEAM (LPS)
- HPC — HIGH PRESSURE CONDENSATE (HPC)
- MPC — MEDIUM PRESSURE CONDENSATE (MPC)
- LPC — LOW PRESSURE CONDENSATE (LPC)
- PC — PUMPED CONDENSATE (PC)
- CF — CHEMICAL FEED
- R — RELIEF PIPING
- CD — CONDENSATE DRAIN
- RS — REFRIGERANT SUCTION
- RL — REFRIGERANT LIQUID
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- G — NATURAL GAS
- G — HIGH PRESSURE NATURAL GAS(HPG)
- LPG — LIQUIFIED PETROLEUM GAS
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RECIRC. (HWR)
- FW — FILTERED WATER
- FWS — FILTERED WATER SUPPLY
- FWR — FILTERED WATER RETURN
- DIS — DEIONIZED WATER SUPPLY
- DIR — DEIONIZED WATER RETURN
- ROS — REVERSE OSMOSIS WATER SUPPLY
- ROR — REVERSE OSMOSIS WATER RETURN
- SD — STORM DRAIN
- SANITARY SEWER
- SANITARY VENT
- IW — INDIRECT WASTE
- AV — ACID VENT
- AW — ACID WASTE
- VA — VACUUM
- A — COMPRESSED AIR
- O — OXYGEN
- N — NITROGEN
- DOMESTIC HOT WATER W/PIPE HEATER
- 140° DOMESTIC HOT WATER (140°)
- 140° DOMESTIC HOT WATER RECIRCULATION (140°)
- DIRECTION OF FLOW
- SLOPE – FALL PER FOOT
- GATE VALVE
- GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- CIRCUIT SETTER
- ATC FLOW METER

- GAS COCK
- GAS PRESSURE REGULATOR
- AUTOMATIC CONTROL VALVE (3 WAY)
- AUTOMATIC CONTROL VALVE (2 WAY)
- PRESSURE REDUCING VALVE
- TEMPERATURE & PRESSURE RELIEF VALVE
- SAFETY RELIEF VALVE
- F&T — FLOAT & THERMOSTATIC TRAP
- BUCKET TRAP
- VB — VACUUM BREAKER
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- STRAINER WITH BLOWDOWN VALVE, HOSE END, CAP AND CHAIN
- PIPE UP
- PIPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION SCREWED/FLANGED
- A — PIPE ANCHOR
- G — PIPE GUIDE
- FM (GPM) — FLOW METER
- FLEXIBLE PIPE CONNECTOR
- FLOW SWITCH
- THERMOMETER
- GAUGE WITH GAUGE VALVE
- GAUGE WITH GAUGE COCK & SNUBBER FITTING (STEAM)
- SHOCK ARRESTER
- REDUCED PRESSURE BACKFLOW PREVENTER W/STRAINER AND QUARTER TURN VALVES
- DOUBLE CHECK VALVE ASSEMBLY
- AD — AREA DRAIN
- RD — ROOF DRAIN
- FD FD — FLOOR DRAIN (SQUARE/ROUND)
- CO FCO — CLEANOUT
- MH — MANHOLE
- DEMOLITION BREAK POINT
- NEW TO EXISTING CONNECTION
- TB — THRUST BLOCK
- ELECTRICALLY HEAT TRACED PIPE
- SUPPLY DUCT AND/OR OUTSIDE AIR INTAKE (INTERNAL DIMENSIONS SHOWN)
- RETURN/EXHAUST RELIEF DUCT (INTERNAL DIMENSIONS SHOWN)
- SUPPLY AIR DIFFUSER (PATTERN AS INDICATED)
- RETURN/EXHAUST GRILLE
- 90° VANED ELBOW UP
- 90° VANED ELBOW DOWN
- INTERNALLY LINED DUCT(INTERNAL DIMENSIONS INDICATED)
- D — DROP IN DUCT IN DIRECTION OF AIRFLOW
- R — RISE IN DUCT IN DIRECTION OF AIRFLOW
- BRANCH DUCT TAKE-OFF
- VANED ELBOW
- W R — FULL THROAT RADIUS ELBOW R=1.5W
- FD — FIRE DAMPER WITH ACCESS DOOR
- VD — VOLUME DAMPER
- ATC — ATC DAMPER
- S.D. — SMOKE DETECTOR (DUCT MOUNTED)
- FSD — FIRE/SMOKE DAMPER WITH ACCESS DOOR
- T — THERMOSTAT/SENSOR
- TN — THERMOSTAT/SENSOR (NIGHT)
- I — IAQ SENSOR
- H — HUMIDISTAT
- $ — SWITCH
- FLAG NOTE
- (E) — EXISTING TO REMAIN
- (N) — NEW
- (T) — TOTAL
- (D) — ABANDON & REMOVE
- (S) — SALVAGE
- (ER) — EXISTING TO BE RELOCATED

HVAC / PLUMBING ABBREVIATIONS

A.	COMPRESSED AIR
ABV.	ABOVE
AC	ABOVE CEILING
AD	AIR DEVICE
A/D	ACCESS DOOR
AF	AIRFOIL FAN
A.F.F.	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL (WALL/CEILING)
ATC	AUTOMATIC TEMPERATURE CONTROL
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BDD	BACK DRAFT DAMPER
BF	BELOW FLOOR
BFP	BACK FLOW PREVENTER
BIF	BACKWARD INCLINED FAN
BLDG	BUILDING
B.O.S.	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNITS
BTU/H	BRITISH THERMAL UNITS PER HOUR
C	CHILLER
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG.	CEILING
CONT.	CONTINUED/CONTINUATION
CONT'R	CONTRACTOR
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	DOMESTIC COLD WATER
dB	DECIBELS
DOM	DOMESTIC
DDC	DIRECT DIGITAL CONTROL
DEPT	DEPARTMENT
DIS. SW.	DISCONNECT SWITCH
DIV	DIVISION
DN	DOWN
DX	DIRECT EXPANSION
DW	DOUBLE WALL
DWG	DRAWING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD
E.C.	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CEILING HEATER
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATING
EL	ELEVATION
EMT	ELECTRIC METALLIC TUBE
ENT	ENTERING
ER	EXHAUST RISER
ETC	ETCETERAS
EX	EXHAUST AIR
EXT	EXTERNAL
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
F	FAN
F.A.I.	FRESH AIR INLET
FC	FLEXIBLE CONNECTION
FCF	FORWARD CURVED FAN
FCU	FAN COIL UNIT
FD	FIRE DAMPER OR FLOOR DRAIN
FLA	FULL LOAD AMPS
FP	FIRE PROTECTION
FPVAV	FAN POWERED VARIABLE AIR VOLUME BOX
FPM	FEET PER MINUTE
FT	FEET
G.	GAS
GA	GAUGE
G.C.	GENERAL CONTRACTOR
GAL	GALLON
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
H.C.	HVAC CONTRACTOR
HP	HORSEPOWER
HR	HOUR
HWR	DOMESTIC HOT WATER RECIRCULATED
HW	DOMESTIC HOT WATER
IN.	INCHES
INT	INTERNAL
INV.	INVERT
KW	KILOWATTS
LBS	POUNDS
LBS/H	POUNDS PER HOUR
LAT	LEAVING AIR TEMPERATURE
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BRITISH THERMAL UNITS PER HOUR
M.C.	MECHANICAL CONTRACTOR
MIN	MINIMUM
MOBDD	MOTOR-OPERATED BACK DRAFT DAMPER
MOD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
No.	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
O.C.	ON CENTER
OPER.	OPERATING
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PF	PLENUM FAN
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RLA	RATED LOAD AMPS
RA	RETURN AIR
RECIR	RECIRCULATED
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RWC	RAIN WATER CONDUCTOR
S.	SANITARY
SA	SUPPLY AIR
SD	STORM DRAIN
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
S.F.	SQUARE FEET
SR	SUPPLY RISER
SSI	SPLIT SYSTEM INSIDE UNIT
SSO	SPLIT SYSTEM OUTSIDE UNIT
TEMP	TEMPERATURE
T.O.S.	TOP OF STEEL
T-STAT	THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
V.	VENT
VD	VOLUME DAMPER
V.I.F.	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W.	WASTE
W/	WITH
WH	WALL HEATER
WG	WATER GAUGE
W/O	WITHOUT
#	POUNDS OR NUMBER
#/HR	POUNDS PER HOUR
°F	DEGREES FAHRENHEIT
°wb	DEGREES FAHRENHEIT WET BULB
°db	DEGREES FAHRENHEIT DRY BULB
ø	ELECTRICAL PHASE OR DIAMETER

NOTE:

NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED APPEAR ON THESE DOCUMENTS.

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS
(WEST BUILDING RENOVATION)

COMMUNITY COLLEGE OF PHILADELPHIA

1700 SPRING GARDEN STREET, PHILADELPHIA, PA 19130

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DRAWING TITLE

HVAC COVER SHEET

DATE 8/11/2013

SCALE AS NOTED

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PROJECT NUMBER 911

DRAWING NUMBER CLH-000

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MECHANICAL 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 SHALL ALSO BE IN COMPLIANCE WITH THE LATEST EDITIONS OF ASHRAE STANDARDS, INTERNATIONAL MECHANICAL CODE 2009, INTERNATIONAL BUILDING CODE 2009, INTERNATIONAL FUEL AND GAS CODE 2009, INTERNATIONAL FIRE CODE 2009, THE LIFE SAFETY CODE, UNDERWRITERS LABORATORIES, THE NATIONAL ELECTRICAL CODE, NFPA 70, 90A, 96 & 99, 2002.

2. THE REQUIREMENTS OF THE GOVERNING AUTHORITIES SHALL BE THE MINIMUM ACCEPTABLE REQUIREMENTS FOR THE WORK, AND NOTHING DESCRIBED IN THESE SPECIFICATIONS OR INDICATED ON THE DRAWINGS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES AND REGULATIONS. WHEN DRAWINGS OR SPECIFICATIONS CALL FOR MATERIALS OR CONSTRUCTION OF BETTER QUALITY OR LARGER SIZE THAN REQUIRED BY CODES, LAWS, RULES AND REGULATIONS, THE DRAWINGS AND SPECIFICATIONS SHALL TAKE PRECEDENCE. EQUIPMENT NOT COMPLYING WITH THE LEGAL REQUIREMENTS AND REFERENCE STANDARDS SHALL BE REMOVED AND REPLACED WITH APPROVED EQUIPMENT AT MECHANICAL CONTRACTOR'S EXPENSES. UL LISTING LABELS, WHERE APPLICABLE, SHALL BE INSTALLED PRIOR TO SHIPMENT FROM FACTORY, SHOULD ANY CHANGES TO THE WORK INDICATED ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS BE NECESSARY IN ORDER TO COMPLY WITH THE ABOVE REQUIREMENTS, NOTIFY THE PROFESSIONAL IMMEDIATELY AND CEASE WORK ON ALL PARTS OF THE CONTRACT WHICH ARE AFFECTED UNTIL APPROVAL FOR ANY REQUIRED MODIFICATIONS TO THE CONSTRUCTION HAS BEEN OBTAINED FROM THE PROFESSIONAL.

3. 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 HEREINDER 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. SHOULD THE DRAWINGS AND SPECIFICATIONS DISAGREE WITHIN THEMSELVES OR BETWEEN EACH OTHER, THE BETTER QUALITY, GREATER QUANTITY OR MORE COSTLY WORK OR MATERIALS SHALL BE ESTIMATED UPON AND, UNLESS OTHERWISE DIRECTED BY THE PROFESSIONAL IN WRITING, SHALL BE INCORPORATED IN THE WORK.

4. ARRANGEMENT OF EQUIPMENT AND ROUTING OF DUCT, 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.

5. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MECHANICAL WORK WITH OTHER TRADES SO AS TO PROVIDE THE SYSTEM AS DESCRIBED. THE MECHANICAL CONTRACTOR MUST OBTAIN APPROVED CONSTRUCTION DRAWINGS FROM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY WORK. BEFORE COMMENCING WORK, THE MECHANICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER SPECIALTY DESIGN DRAWINGS. IF ANY DISCREPANCIES OCCUR BETWEEN THE DRAWINGS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, HE SHALL REPORT SUCH DISCREPANCIES TO THE PROFESSIONAL AND THE OWNER IN WRITING AND OBTAIN WRITTEN INSTRUCTIONS AS TO THE MANNER IN WHICH TO PROCEED. NO DEPARTURES FROM THE CONTRACT DRAWING SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROFESSIONAL AND THE OWNER. FAILURE TO PERFORM THIS PROCEDURE MAY RESULT IN THE MECHANICAL CONTRACTOR CORRECTING THE WORK AT THE MECHANICAL CONTRACTOR'S OWN COSTS. THE MECHANICAL CONTRACTOR SHALL ASCERTAIN WHERE ALL EQUIPMENT ROOMS, SHAFTS, AND EQUIPMENT SPACES HAVE BEEN PLANNED FOR HIS USE BY THE PROFESSIONAL. BEFORE PROCEEDING WITH ANY WORK, THE MECHANICAL CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS, SIZES, ETC., AND ASSUME FULL RESPONSIBILITY FOR THE FITTING-IN OF HIS EQUIPMENT AND MATERIALS TO THE OTHER PARTS OF THE EQUIPMENT AND TO THE STRUCTURE. COORDINATE ALL WORK WITH ALL TRADES THAT MAKE USE OF THE SAME SPACES FOR BEST UTILIZATION OF AVAILABLE ROOM. ANY CHANGES TO BUILDING STRUCTURE REQUIRED TO ACCOMMODATE THE WORK OF THIS DIVISION SHALL BE INITIATED, COORDINATED, PROVIDED, AND PAID FOR BY THE MECHANICAL CONTRACTOR. ANY SUCH MODIFICATIONS SHALL BE REVIEWED AND ACCEPTED IN WRITING BEFOREHAND BY THE PROFESSIONAL.

6. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
   a. SAFETY AND GOOD CONDITION OF ALL MATERIALS AND EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE OWNER.
   b. PROVIDING ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK.
   c. REPLACING ALL DAMAGED AND DEFECTIVE WORK BEFORE APPLYING FOR FINAL ACCEPTANCE.
   d. ALL LOSS, DAMAGE, OR INJURY TO PERSONS OR PROPERTY RESULTING FROM ANY NEGLECT OF THESE RESPONSIBILITIES.
   THE MECHANICAL CONTRACTOR SHALL COMPLY WITH APPLICABLE OSHA, FEDERAL, STATE AND CITY SAFETY REGULATIONS. THE MECHANICAL CONTRACTOR SHALL MAKE ALL SUBMITTALS REQUIRED TO GOVERNING AGENCIES AND AUTHORITIES AND OBTAIN NECESSARY APPROVALS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LEAKS IN THE MECHANICAL WORK DURING THE CONSTRUCTION AND GUARANTEE PERIOD AND SHALL REPAIR, AT NO COST TO THE OWNER, ALL SUCH LEAKS THAT OCCUR IMMEDIATELY UPON NOTIFICATION BY THE OWNER AND/OR PROFESSIONAL. LEAKS AND ALL DAMAGE TO OTHER WORK THERE FROM WHICH MAY OCCUR DURING CONSTRUCTION AND GUARANTEE PERIOD SHALL BE REPAIRED AT ONCE, AT NO COST TO THE OWNER.

7. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN MECHANICAL PROPOSAL A ONE YEAR GUARANTEE-WARRANTY ON ALL INSTALLED EQUIPMENTS 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 SUBSTANTIAL COMPLETION OF THE PROJECT.

B. SITE VISIT AND EXISTING CONDITION:

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. BIDS AS SUBMITTED, WILL BE INTERPRETED TO INCLUDE ALL COSTS AND CHARGES MADE NECESSARY BY EXISTING CONDITIONS.

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.

3. EXTRAS WILL NOT BE CONSIDERED FOR ADDITIONAL WORK CREATED BY CONNECTIONS TO EXISTING UTILITIES OR SYSTEMS OR ADAPTABILITY OF NEW SYSTEMS TO EXISTING UTILITIES OR SYSTEMS, UNLESS NOTICE IS GIVEN BEFORE THE BIDS ARE RECEIVED.

C. MATERIALS AND PRODUCT:

1. ALL MATERIAL AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS SPECIFICALLY NOTED OTHERWISE. GENERALLY, MATERIALS AND EQUIPMENT SPECIFIED BY THE NAME OF THE MANUFACTURER, BRAND, TRADE NAME, CATALOG REFERENCE, OR FIGURE NUMBER NAMED IN THE SPECIFICATIONS AND/OR LISTED IN EQUIPMENT SCHEDULES ON DRAWINGS ARE THE ITEMS THAT HAVE BEEN USED AS THE BASIS FOR DESIGN. EQUIVALENT ITEMS OF OTHER MANUFACTURERS MAY BE SUBMITTED AND ACCEPTED, BUT THESE ITEMS MUST MATCH THE "BASIS OF DESIGN" ITEM WITH RESPECT TO GRADE, QUALITY, STANDARD, CAPACITY, PHYSICAL DIMENSIONS, DESIGN AND WHERE APPLICABLE PIPING ARRANGEMENT. IF THE USE OF OTHER MANUFACTURER'S MATERIALS HAS AN AFFECT ON ANY PART OF THE BUILDING CONSTRUCTION AND INSTALLATION INCLUDING WORK OF OTHER CONSTRUCTION CONTRACTS AND OTHER CONTRACTORS IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO INCLUDE, AT NO EXTRA COST TO THE OWNER, ALL COSTS FOR CHANGES TO THE DESIGNED GENERAL CONSTRUCTION, STRUCTURAL, HEATING, VENTILATING AND AIR CONDITIONING, PLUMBING, AND ELECTRICAL SYSTEM THAT ARE REQUIRED BY THE USE OF SUCH ITEMS, INCLUDING COST OF THE PROFESSIONAL'S REDESIGN AND EXTRAORDINARY APPROVAL TIME.

2. ALL ACCESS PANELS REQUIRED FOR SERVICING, ADJUSTING AND CLEANING DEVICES (E.G., VALVES, CONTROLS, ETC.) SHALL BE PROVIDED AND SET IN PLACE BY THE MECHANICAL CONTRACTOR, AND MUST BE INDICATED ON ALL SHOP DRAWINGS. IT IS EXPRESSLY UNDERSTOOD THAT ALL REQUIRED ACCESS PANELS ARE NOT INDICATED ON THE DRAWINGS DUE TO VARYING OPTIONS. HOWEVER, THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ACCESS PANELS REQUIRED BY HIS WORK WHETHER INDICATED OR NOT. NO ADDITIONAL COMPENSATION WILL BE PAID BY THE OWNER FOR CONTRACTOR'S FAILURE TO CONSIDER THE ABOVE.

D. OTHER RELATED WORK:

1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROUGH CUTTING, TRENCHING, AND BACKFILLING REQUIRED TO FACILITATE THE INSTALLATION OF HIS WORK. ALL CUTTING OF OPENINGS IN ROOFS, WALLS, FLOORS, AND CEILINGS SHALL BE CAREFULLY DONE TO AVOID THE NECESSITY FOR EXCESSIVE PATCHING. OPENINGS CUT IN CONCRETE WALLS AND FLOORS SHALL BE NEATLY DONE USING CORE BORING MACHINES. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING UTILIZING MECHANICS QUALIFIED IN THE REQUIRED RESPECTIVE TRADES. ALL PATCHING SHALL MATCH ADJACENT FINISHES. ALL PATCHING WORK WILL BE REVIEWED BY THE PROFESSIONAL. ANY UNACCEPTABLE WORK WILL BE REDONE AT THE COST OF THE MECHANICAL CONTRACTOR. REFER TO APPLICABLE GENERAL CONSTRUCTION DIVISIONS OF THESE SPECIFICATIONS FOR PROCEDURES FOR REPAIRING AND/OR PATCHING VARIOUS TYPES OF MATERIALS AND FINISHES.

2. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR AND SUPERVISION NECESSARY TO CONSTRUCT WORK, INDICATED ON THE DRAWINGS AND/OR HEREINAFTER SPECIFIED FOR PADS, SUPPORTS, AND RELATED APPURTENANCES. ALL CONCRETE SHALL BE "READY MIXED" CONFORMING TO ASTM DESIGNATION C94. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL STRUCTURAL STEEL SUPPORTS REQUIRED FOR EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS. ALL CONCRETE FOUNDATIONS SHALL BE SECURELY ANCHORED TO THE FLOOR SLAB WHERE THE REQUIREMENTS AND WEIGHT OF EQUIPMENT IS LIGHT AND THE FLOOR SLAB IS OF AMPLE DESIGN TO SUPPORT THE EQUIPMENT. ALL FOUNDATIONS SHALL BE BUILT TO TEMPLATES AND REINFORCED AS REQUIRED BY THE LOAD TO BE IMPOSED UPON TIME. THE MECHANICAL CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR APPROVAL SHOWING SIZE AND LOCATION, IN DETAIL, OF ALL FOUNDATIONS AND SUPPORTS FOR EQUIPMENT BEFORE ANY CONSTRUCTION IS BEGUN, AND SHALL ASSUME ALL RESPONSIBILITY FOR THE SIZE AND LOCATION OF ALL FOUNDATIONS.

3. ANY MATERIAL, EQUIPMENT AND APPURTENANCE WHOSE OPERATION, CAPACITY OR PERFORMANCE DOES NOT COMPLY WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR WHICH IS DAMAGED WILL BE DEEMED DEFECTIVE AND SHALL BE REMOVED AND REPLACED WITH PROPER AND ACCEPTABLE MATERIAL, EQUIPMENT AND APPURTENANCE OR PUT INTO PROPER AND ACCEPTABLE WORKING ORDER BY REPAIR OR ADJUSTMENT, WITHOUT ANY COST TO THE OWNER. ALL MOVING PARTS OF EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY LUBRICATED IN ACCORDANCE TO THE MANUFACTURES INSTRUCTIONS BY THE MECHANICAL CONTRACTOR. ALL EQUIPMENT AND APPURTENANCES SHALL BE STARTED, OPERATED AND TESTED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH THESE SPECIFICATIONS, AND SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION DETERMINED BY THE PROFESSIONAL. ANY OBJECTIONABLE NOISE OR VIBRATION SHALL BE CURED WITHOUT ANY ADDITIONAL COSTS TO THE OWNER AND TO THE SATISFACTION OF THE PROFESSIONAL.

4. THE ENTIRE INSTALLATION SHALL BE LEFT IN A NEAT, CLEAN, AND USABLE CONDITION ACCEPTABLE TO THE PROFESSIONAL. UPON FAILURE TO COMPLY WITH THE ABOVE, THE OWNER MAY HAVE ALL CLEANING COMPLETED AT THE MECHANICAL CONTRACTOR'S EXPENSE FOR ALL LABOR AND MATERIAL.

E. ELECTRICAL WORK BY MC:

1. THE MECHANICAL CONTRACTOR SHALL FURNISH TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION ALL NECESSARY AUXILIARY CONTACTS, LINE VOLTAGE CONTROLS AND STOP-START SWITCHES, UNLESS INTEGRALLY FACTORY MOUNTED AND PRE-WIRED ON THE EQUIPMENT, OR OTHERWISE NOTED. FINAL WIRING OF THESE DEVICES SHALL BE BY THE ELECTRICAL CONTRACTOR.

2. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LOW VOLTAGE (UNDER 120 VOLTS) CONTROL DEVICES SUCH AS TRANSFORMERS, RELAYS, PRESSURE SWITCHES, FLOAT SWITCHES, THERMOSTAT, ETC., AND THEIR ASSOCIATES WIRING AND CONDUIT FROM THESE CONTROL DEVICES, REQUIRED FOR THE OPERATION OF THE STARTERS AND/OR EQUIPMENT THAT THE MECHANICAL CONTRACTOR FURNISHES. WIRING SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE ELECTRICAL DIVISION OF THESE SPECIFICATIONS.

3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND SET MOTORS, HEATING ELEMENTS, ETC. FOR EQUIPMENT UNDER THE MECHANICAL CONTRACT. MOTOR FRAME AND BEARING BRACKETS SHALL BE CAST IRON. MOTORS SHALL BE MOUNTED ON THE SAME BED PLATE AS EQUIPMENT DRIVEN, AND BE COMPLETE WITH PULLEYS, BELTS, SLIDE RAILS, OR FLEXIBLE COUPLINGS REQUIRED.

4. AFTER THE MECHANICAL CONTRACTOR CHECKS THE MOTORS SUPPLIED FOR ALIGNMENT, OIL, ETC., AND AFTER FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR, THE ELECTRICAL CONTRACTOR SHALL TEST MOTORS FOR PROPER ROTATION. THE ELECTRICAL CONTRACTOR SHALL ALSO MAKE NECESSARY ADJUSTMENTS OF STARTER AND CONTROL EQUIPMENT FOR PROPER STARTING AND OVERLOAD PROTECTION. THE MECHANICAL CONTRACTOR SHALL COORDINATE THIS WORK WITH THE ELECTRICAL CONTRACTOR.

5. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PAY ANY AND ALL COSTS ASSOCIATES WITH CHANGE AND/OR REPLACEMENT OF ANY ELECTRICAL DEVICE, FEEDERS OR CONDUIT, IF THE MECHANICAL CONTRACTOR DOES NOT PROVIDE MATERIALS AS REQUIRED BY THIS DIVISION OF THE SPECIFICATIONS OR DIVISION 16 OF THESE SPECIFICATIONS. ALL ELECTRICAL WORK, EQUIPMENT AND MATERIALS FURNISHED SHALL HAVE A UL. LABEL AND BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).

6. ALL CONTROL WIRING IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR REGARDLESS OF VOLTAGE. ALL LINE VOLTAGE CONTROLS (100 VOLTS AND ABOVE) SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR WHO SHALL BE COMPENSATED BY THE MECHANICAL CONTRACTOR. LOW VOLTAGE CONTROLS (UNDER 100 VOLTS) MAY BE INSTALLED BY THE MECHANICAL CONTRACTOR.

7. ANY AND ALL PENALTIES AND COSTS FOR DELAY ATTRIBUTABLE TO NON-COMPLIANCE OF THIS SECTION OF THESE SPECIFICATIONS WILL BE BORNE BY THE MECHANICAL CONTRACTOR FOR THE EQUIPMENT PROVIDED UNDER THIS CONTRACT.

F. SHOP DRAWINGS

1. THE MECHANICAL 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.

2. THE MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SPECIFICATIONS OF THE ENTIRE SYSTEM (INCLUDING DUCTWORK AND PIPING ROUTING, EQUIPMENT LAYOUT, AND COORDINATION PLAN WITH OTHER TRADE) FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK.

3. SUBMITTAL SHEETS ARE REQUIRED FOR ALL DIFFUSERS AND OTHER DUCT TERMINAL DEVICES FOR APPROVAL PRIOR TO INSTALLATION.

G. DUCT WORK (OTHER THAN FOR FUME HOOD):

1. ALL DUCTWORK SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND THE SMACNA "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" MANUAL, USING PRIME SHEETS OF GALVANIZED STEEL. PROVIDE SEAL CLASS "C" ON ALL TRANSVERSE JOINTS UNLESS SUPERSEDED BY MORE STRINGENT LOCAL CODES.

2. CHANGE IN DIRECTION ELBOWS SHALL HAVE AN INSIDE RADIUS OF NOT LESS THAN THE WIDTH OF THE DUCT. WHERE SQUARE ELBOWS ARE NECESSARY PROVIDE SINGLE THICKNESS TURNING VANES A MAXIMUM OF 3" ON CENTER.

3. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL FIRE DAMPERS AS REQUIRED BY CODES HAVING JURISDICTION. ALL FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF THE BOARD OF FIRE UNDERWRITERS, THE LOCAL FIRE MARSHALL, AND SHALL BE LABELED AND APPROVED BY UNDERWRITERS LABORATORIES. ALL FIRE DAMPERS SHALL BE TYPE "B", WITH DAMPERS OUT OF THE AIR STREAM.

4. ALL BRANCHES AND TAKE-OFFS SHALL BE EQUIPPED WITH MANUAL VOLUME CONTROLLING DEVICES HAVING AN INDICATING AND LOCKING DEVICE.

5. SUPPORT HORIZONTAL DUCTS WITH HANGERS SECURED TO BAR JOISTS OR STRUCTURAL STEEL ABOVE AT INTERVALS NOT TO EXCEED 8'-0".

6. ALL CONCEALED SUPPLY, OA AND RETURN DUCTWORK SHALL BE INSULATED. INSULATION SHALL BE 1" THICK W/ FACED FOIL, 1.5# DENSITY. MIN. R VALUE SHALL BE 5. NO INSULATION TO ANY DUCT IN CONDITIONED SPACES. WHERE DUCT LINING IS SHOWN ON DRAWINGS, IT SHALL BE COATED AND SEALED, 1" LINER AND SHALL MEET ASTM C1071. THESE LININGS (INCLUDING COATINGS, ADHESIVES, AND EXTERIOR SURFACE INSULATION ON PIPES AND DUCTS IN SPACES USED AS AIR SUPPLY PLENUMS) SHALL HAVE A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA 255. THE LINER SEAMS AND PUNCTURES SHALL BE RESEALED. REFER TO M4.00 FOR OTHER REQUIREMENTS FOR DUCTS AND INSULATION.

7. ALL DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS AND LOCAL CODES.

H. EXISTING VAV BOX

REUSE EXISTING VAV BOXES AND CONTROLS. REFURBISH IF NECESSARY. RELOCATE TEMPERATURE SENSORS AS INDICATED ON DRAWING.
VERIFY IF EXISTING VAV BOXES MEET ASTM STANDARD AND REPORT TO OWNER AND ARCHITECT.

I. BALANCING AND ADJUSTING:

THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE AIR AND WATER BALANCING OF ALL SYSTEMS. TESTING AND BALANCING SHALL BE PERFORMED BY AN INDEPENDENT, NEBB (NATIONAL ENVIRONMENTAL BALANCING BUREAU) OR AABC (ASSOCIATED AIR BALANCE COUNCIL) CERTIFIED BALANCING CONTRACTOR. A COMPLETE CERTIFIED REPORT INDICATING AIR FLOW RATES, PRESSURE DROPS, STATIC PRESSURES, INLET & OUTLET TEMPERATURES, CONDENSING TEMPERATURES, BRAKE HORSEPOWER, AMP DRAW, ETC., SHALL BE DELIVERED TO THE ARCHITECT AT THE COMPLETION OF THE WORK FOR REVIEW AND APPROVAL.
BIDS ON BALANCING AND ADJUSTING SHALL BE SEPARATE LINE ITEM.

J. FUME HOOD EXHAUST DUCT

ALL DUCTWORK FOR FUME HOOD EXHAUST SHALL BE STAINLESS STEEL. CONSTRUCTION PER SMACANA

K. FUME HOOD

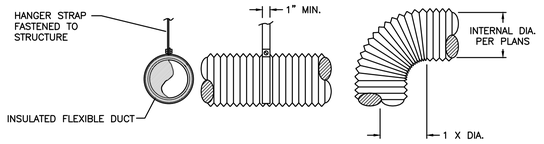
1. FUME HOOD SHALL BE LABCONCO PROTECTOR XSTREAM LABORATORY HOOD OR APPROVED EQUAL. HOOD SHALL ALLOW 60 FPM FACE VELOCITY AND MEET SEFA-1 STANDARD. PROVIDE SERVICE FIXTURE KITS, INCLUDING GAS, AIR, WATER VALVES, AND CUPSINK.
2. PROVIDE ELECTRICAL DUPLEX KITS.
3. PROVIDE GUARDIAN AIRFLOW MONITOR KITS.
4. CONSTRUCTION PER ANSI Z9.5 2011
5. REFER TO DRAWING CLP1.04A1A NOTE 3 FOR REQUIRED HOOD MOUNTED PLUMBING AGGESSORIES.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. DUCT SIZES SHOWN ON THE DRAWING ARE INTERNAL FREE AREA SIZES. DUCT SIZES MUST BE INCREASED TO ALLOW FOR THE LINING AS REQUIRED WITHIN SPECIFICATIONS. DUCTWORK INTERIOR BEHIND ALL GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
3. PROVIDE BALANCING DAMPERS AT TAKE OFFS IN ALL LOW PRESSURE DUCTWORK AND TURNING VANES AT ALL 90 DEGREE ELBOWS.
4. COORDINATE LOCATION OF ALL DEVICES WITH ARCHITECTS DETAILED ELEVATIONS, SECTIONS, REFLECTED CEILING PLAN, AND STRUCTURAL DRAWINGS. LOCATIONS INDICATED ON MECHANICAL DRAWINGS ARE STRICTLY DIAGRAMMATIC. FAILURE TO COMPLY WILL RESULT IN THE CONTRACTOR CORRECTING THE WORK AT THEIR OWN COSTS.
5. 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.
6. CONTRACTOR TO COORDINATE ACTUAL SIZE & LOCATION OF DUCTWORK WITH RESPECT TO MINIMUM CLEARANCES AT STRUCTURAL MEMBERS AND SHAPES, ALL OTHER EXISTING CONDITIONS AND EQUIPMENT BEING INSTALLED IN CEILINGS AND SHAFTS. FAILURE TO COORDINATE THIS WORK THAT RESULTS IN CONFLICTS WILL REQUIRE THIS CONTRACTOR TO CORRECT THE WORK AT THEIR OWN COSTS.
7. ALL HVAC CEILING OR WALL MOUNTED EQUIPMENT SHALL BE SUPPORTED WITH STRUCTURAL STEEL AND THREADED RODS. ALL UNITS SHALL BE ISOLATED FROM BUILDING CONSTRUCTION FOR VIBRATION CONTROL.
8. SEAL ALL DUCT PENETRATIONS THROUGH WALLS . SEAL ALL TRANSVERSE DUCT SEAMS WITH APPROVED MASTIC. DUCT TAPE WILL NOT BE ALLOWED.
9. USE ONLY RIGID METAL DUCTWORK, UNLESS SHOWN AS FLEXIBLE DUCT ON DRAWINGS. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0".
10. BALANCE ALL DUCTS, DIFFUSERS, AND GRILLES TO OBTAIN THE AIR QUANTITIES AS SHOWN ON PLANS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
11. 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.
12. 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.

DEMOLITION NOTES

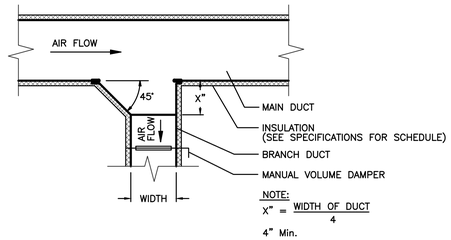
1. CONTRACTOR SHALL SURVEY AND VERIFY EXISTING CONDITIONS PRIOR TO COST PROPOSAL AND COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR REPORTING UPON DISCOVERY ANY CONDITIONS THAT VARY FROM THE CONSTRUCTION DOCUMENTS OR A POSSIBLE CAUSE FOR A CHANGE IN THE WORK SCOPE TO THE OWNER AND ARCHITECT.
2. PRIOR TO PERFORMING ANY DEMOLITION ANYWHERE IN THE BUILDING, THE CONTRACTOR SHALL CONSULT WITH THE CCP 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 CCP 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. THE CONTRACTORS RESPONSIBLE FOR THE REMOVAL, IN ITS ENTIRETY OF ANY INACTIVE ELEMENTS FOUND DURING EXCAVATION; INCLUDING, BUT NOT LIMITED TO ABANDONED PIPES, PIPE CONDUITS, DUCTWORK, AIR DEVICES, AND VALVES AS PER CODE, TO THEIR LEGAL POINT OF ORGIN. 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.
5. CONTRACTOR SHALL PATCH ALL HOLES IN WALLS AND FLOORS RESULTING FROM REMOVAL OF DUCTWORK, PIPING, CONDUIT/WIRING, ETC. AL



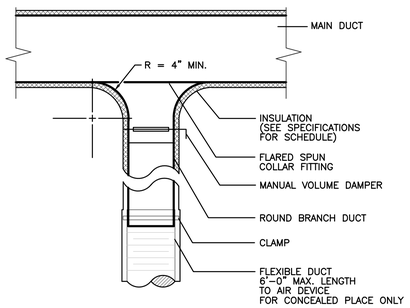
NOTE:
1. STRAP HANGERS SHALL BE SPACED NO MORE THAN 8'-0" APART.
2. MAXIMUM PERMISSIBLE SAG OF FLEXIBLE DUCT SHALL BE 1/2" PER FOOT OF SPACING BETWEEN HANGERS.
3. INSTALLATION OF ALL FLEXIBLE DUCT SHALL BE IN ACCORDANCE WITH SMACNA & ASHRAE STANDARDS.
4. ALL FLEXIBLE DUCT SHALL BE "FLEXMASTER" TYPE 4M, UL181, CLASS 1, INSULATED & HAVING REINFORCED METALIZED PROTECTIVE VAPOR BARRIER.
5. FLEXIBLE DUCT SHALL NOT BE LONGER THAN 10'.

ALL FLEXIBLE DUCT SHALL BE "BRD NOISE AND VIBRATION CONTROL, INC." HUSH DUCT HIGH PRESSURE ACOUSTICAL FLEXIBLE DUCT TYPE HD-HPAF. DUCT SHALL BE DOUBLE WALL WITH A PERFORATED INNER LINER OF SINGLE-PLY ALUMINUM WITH A MINIMUM OF SEVEN MECHANICALLY FORMED CORRUGATIONS PER JOINT, COVERED BY A 1" THICK BY 1 LB. DENSITY FIBERGLASS BLANKET. THE OUTER LINER SHALL BE A BONDED TWO-PLY LAMINATE CLOSELY CORRUGATED, CAPABLE OF 20"± POSITIVE OR NEGATIVE PRESSURE. SPUN ALUMINUM INLET & OUTLET COLLARS SHALL BE FACTORY SEALED TO THE INNER & OUTER LINERS. STANDARD FLEXIBLE LENGTH SHALL BE FIVE FEET.

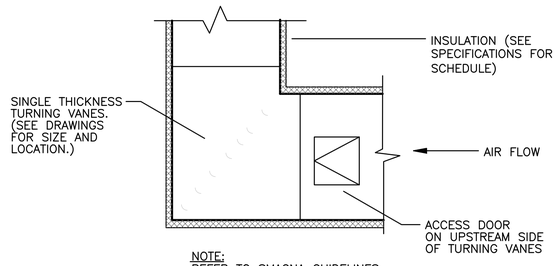
1 CLH002 **RECTANGULAR BRANCH DUCT TAKE-OFF DETAIL**
SCALE: NONE



2 CLH002 **RECTANGULAR BRANCH DUCT TAKE-OFF DETAIL**
SCALE: NONE

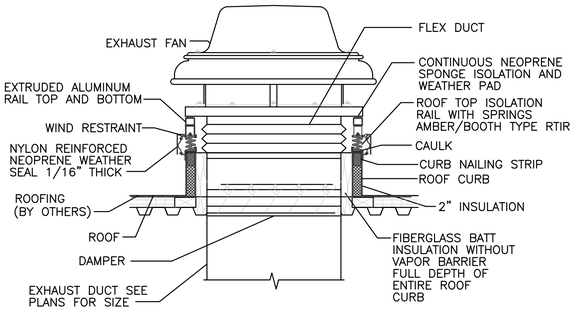


3 CLH002 **ROUND BRANCH TAKE-OFF DETAIL**
SCALE: NONE

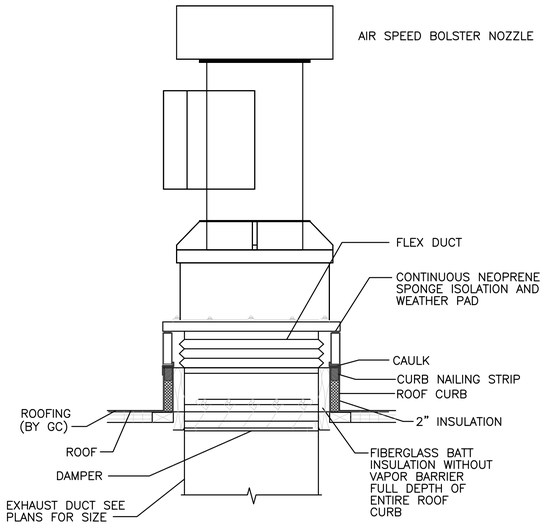


NOTE:
REFER TO SMACNA GUIDELINES FOR INSTALLATION & CONSTRUCTION DETAILS.

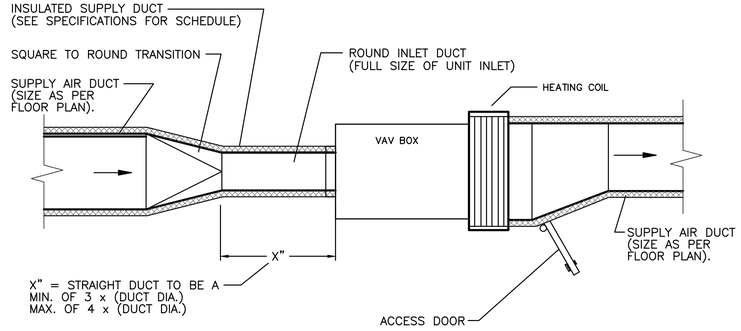
4 CLH002 **VANED ELBOW DETAIL**
SCALE: NONE



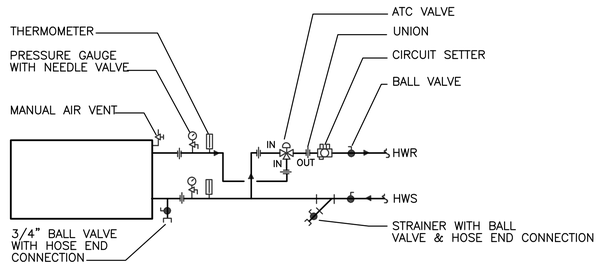
5 CLH002 **LAB PRESSURE REGULATION EXHAUST FAN DETAIL**
SCALE: NONE



6 CLH002 **FUME HOOD EXHAUST FAN DETAIL**
SCALE: NONE



7 CLH002 **VAV BOX W/ HEATING COIL DETAIL**
SCALE: NONE



8 CLH002 **VAV HOT WATER COIL PIPING DETAIL**
SCALE: NONE

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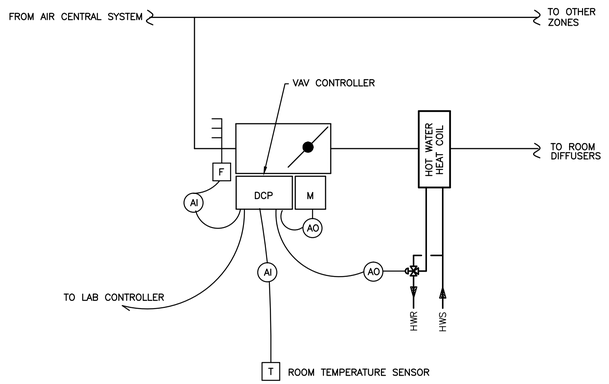
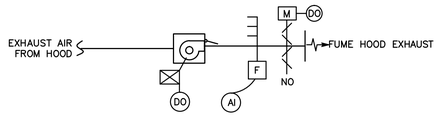


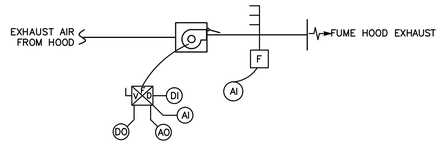
1 CLH003 VAV TERMINAL WITH HOT WATER COIL DIAGRAM

NOT TO SCALE



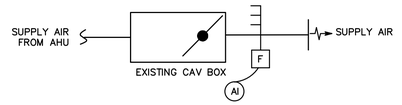
2 CLH003 FUME HOOD EXHAUST FAN DIAGRAM

NOT TO SCALE



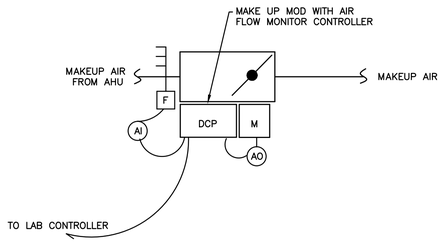
3 CLH003 LAB ROOM EXHAUST FAN DIAGRAM

NOT TO SCALE



4 CLH003 ROOM W4-38,41,44,47 EXISTING CAV

NOT TO SCALE



5 CLH003 MAKEUP AIR CONTROLLER DIAGRAM

NOT TO SCALE

SEQUENCE OF OPERATION:

1. NEW LAB W4-22 AND 28
   - A. VAV BOX: SPACE THERMOSTAT SHALL MODULATE VAV BOX INLET DAMPER TO MAINTAIN SPACE TEMPERATURE. WHEN DAMPER AT MIN POSITION AND SPACE CONTINUES TO CALL HEATING, MODULATE HW VALVE TO MAINTAIN SPACE SETTING. REPORT DAMPER POSITION AND AIR FLOW TO LAB CONTROLLER.
   - B. SPACE EXHAUST FAN: MODULATE EXHAUST FAN SPEED VIA VFD BY TRACKING VAV DAMPER POSITION, SO THAT SPACE IS ALWAYS IN NEGATIVE PRESSURE OF 0.1" WC COMPARED WITH CORRIDOR. REPORT AIR FLOW TO LAB CONTROLLER
   - C. FUME HOOD EXH: INTERLOCK FUME HOOD EXHAUST FAN AND MAKE UP AIR CONTROLLER. REPORT BOTH AIR FLOW TO LAB CONTROLLER.
   - D. SET A ALARM TO LAB CONTROLLER WHEN SPACE IS IN POSITIVE AIR FLOW.
   - E. CONNECT LAB CONTROLLER TO BAS
2. EXISTING LAB W4-38,41,44 AND 27
   - A. REPORT EXISTING CAV BOX AIR FLOW TO NEW LAB CONTROLLER
   - B. FUME HOOD EXH: REPORT AIR FLOW TO LAB CONTROLLER.
   - C. FUME HOOD EXH FAN SHALL RUN CONTINUOUSLY.
   - E. EXISTING SPACE TEMPERATURE CONTROLLER SHALL REMAIN.
   - F. CONNECT LAB CONTROLLER TO BAS

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AIR DEVICE SCHEDULE

AD/Type/Pattern

No.	Function	Damper	Description	Finish	Manufacturer & Model No.	Remarks
1	SUPPLY	Y	MIXING DIFFUSER DOWN BLOW	WHITE	TITUS TDV	–
2	RETURN	Y	RETURN/EXHAUST	WHITE	TITUS 350 FL	
3	SUPPLY	Y	LINEAR	WHITE	TITUS FLOW BAR	

MECHANICAL INSULATION SCHEDULE

System	Application	Temperature Range	Location	Insulation Type	Thickness/R-Value	Lined or Wrapped	Jacket Type	Finish
AIR DISTRIBUTION	SUPPLY AIR	50°F – 120°F	INDOOR	FIBERGLASS	1"/ R=5	WRAPPED	NONE	FOIL
AIR DISTRIBUTION	RETURN	60°F – 90°F	INDOOR					

NOTES: 1. EXCLUDES FACTORY INSULATED EQUIPMENT.

FAN SCHEDULE

F

TYPE	CFM	Available SP "WG	Electrical Data			Manufacturer & Model No.	Remarks
			HP	Volts	Phase		
A	710	1.0	1/2	208	1	COOK FAN 100TCNHBLE-6	W/MOD, DISCONNECT SWITCH (1)
B	1800	0.25	1/4	120	1	COOK FAN 150ACEB	W/BACK DRAFT DAMPER, SCREEN, DISCONNECT SWITCH ON ROOF, AND INDOOR VFD
C	650	1.0	1/2	208	1	COOK FAN 100TCNHBLE-6	W/MOD, DISCONNECT SWITCH (1)
D	2400	0.25	1/3	120	1	COOK FAN 165ACEB	W/BACK DRAFT DAMPER, SCREEN, DISCONNECT SWITCH ON ROOF, AND INDOOR VFD

NOTES: 1. ANSI Z9.5 "LAB VENTILATION STANDARD", SSL SHAFT HARDWARE AND LUBE LINES, NEMA 3R DISCONNECT PRE-WIRED, AND PROVIDE LOCAL DISCONNECT TO BE INSTALLED BY EC.

VARIABLE AIR VOLUME BOX SCHEDULE

VAV

No.	CFM			Hot Water Coil Data							Manufacturer & Model No.	Remarks
					Air		Water					
	Min	Max	Δ P ① Max	Rows	ENT °F	LVG °F	ENT °F	LVG °F	GPM	PD FT	Total Capacity MBH	
1	750	1,800	0.38	1	50	87.9	175	147.6	2.0	5.0	26.8	ENVIRO-TEC #SDR14	
2	600	700	0.38	1	50	87	175	145.0	1.2	1.4	17.6	ENVIRO-TEC #SDR08	
3	1,100	2,200	0.21	1	50	90.0	175	146.5	3.0	2.4	41.7	ENVIRO-TEC #SDR16	

① IN/WG, MAX. TOTAL PRESSURE DROP ON VAV

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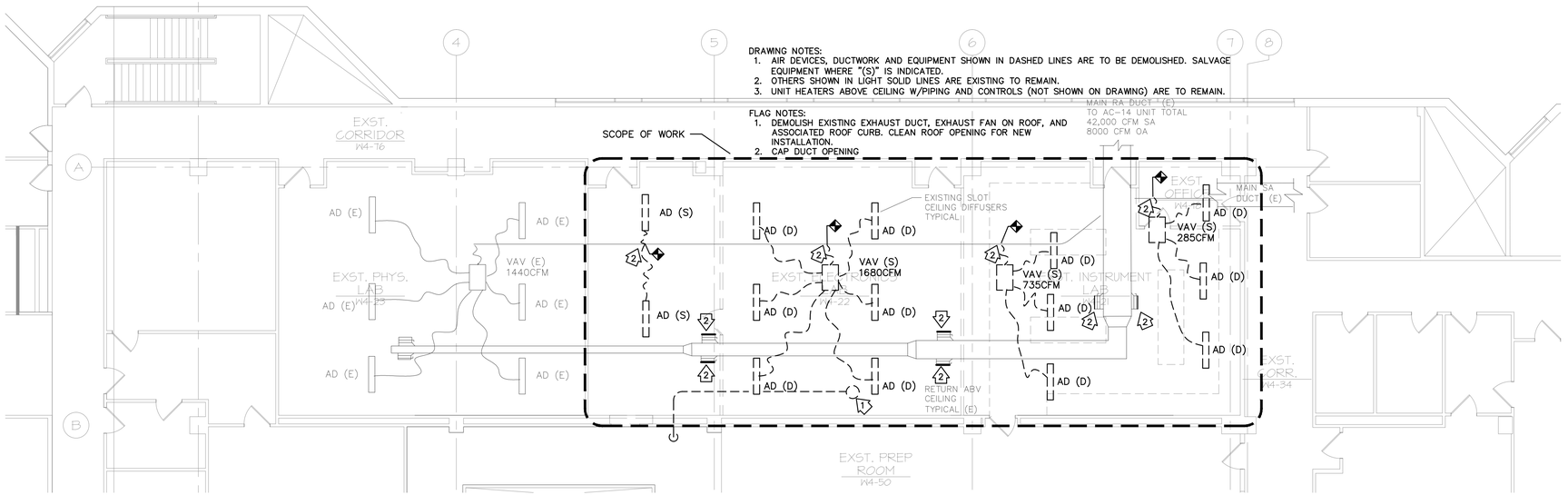
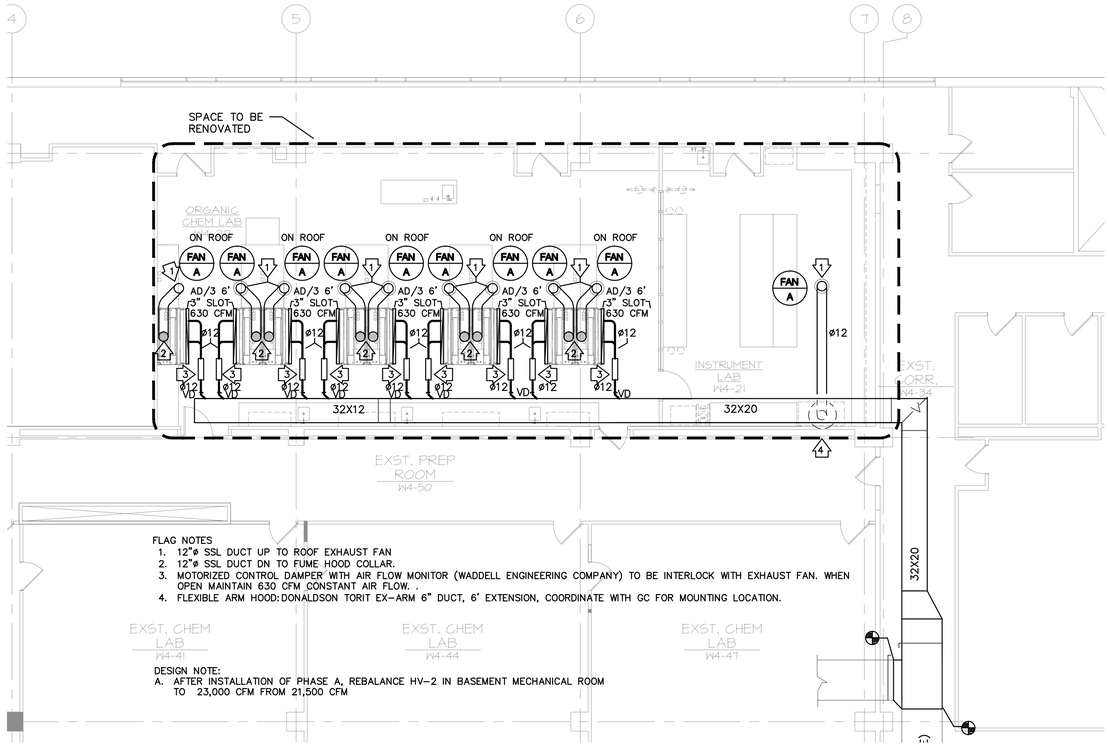
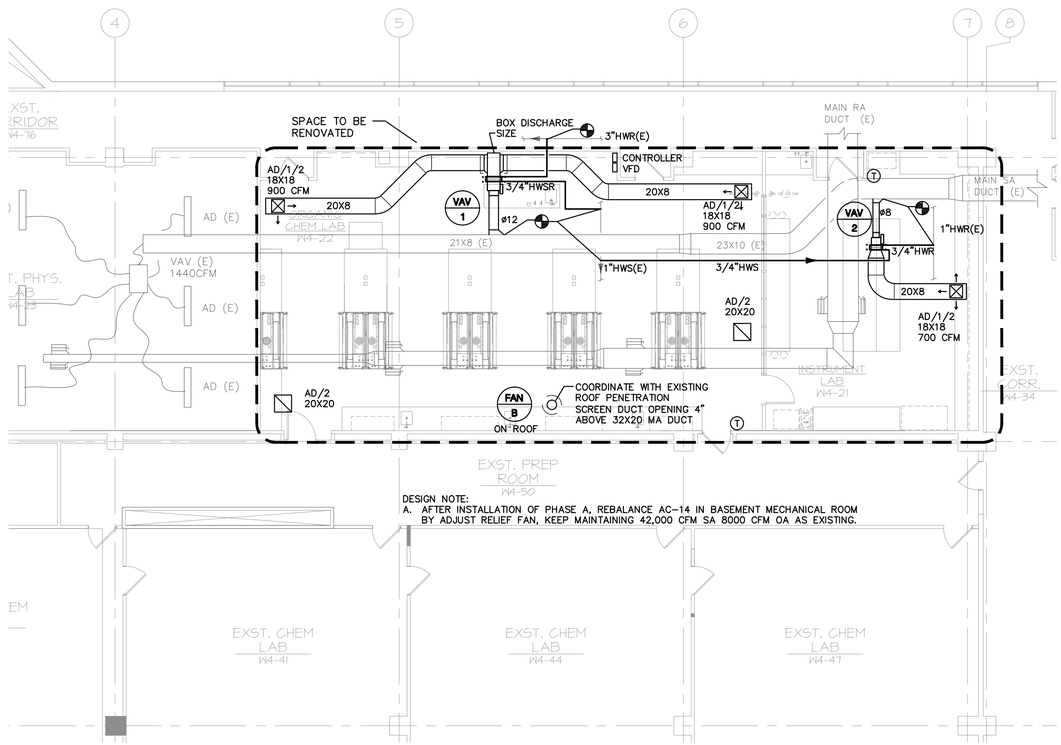


1 **CHEMICAL LAB PHASE A HVAC DEMOLITION PLAN**
SCALE: 1/8"=1'-0"



2 **CHEMICAL LAB PHASE A FUME HOOD EXH PLAN**
SCALE: 1/8"=1'-0"



3 **CHEMICAL LAB PHASE A HEATING AND COOLING SYSTEM PLAN**
SCALE: 1/8"=1'-0"

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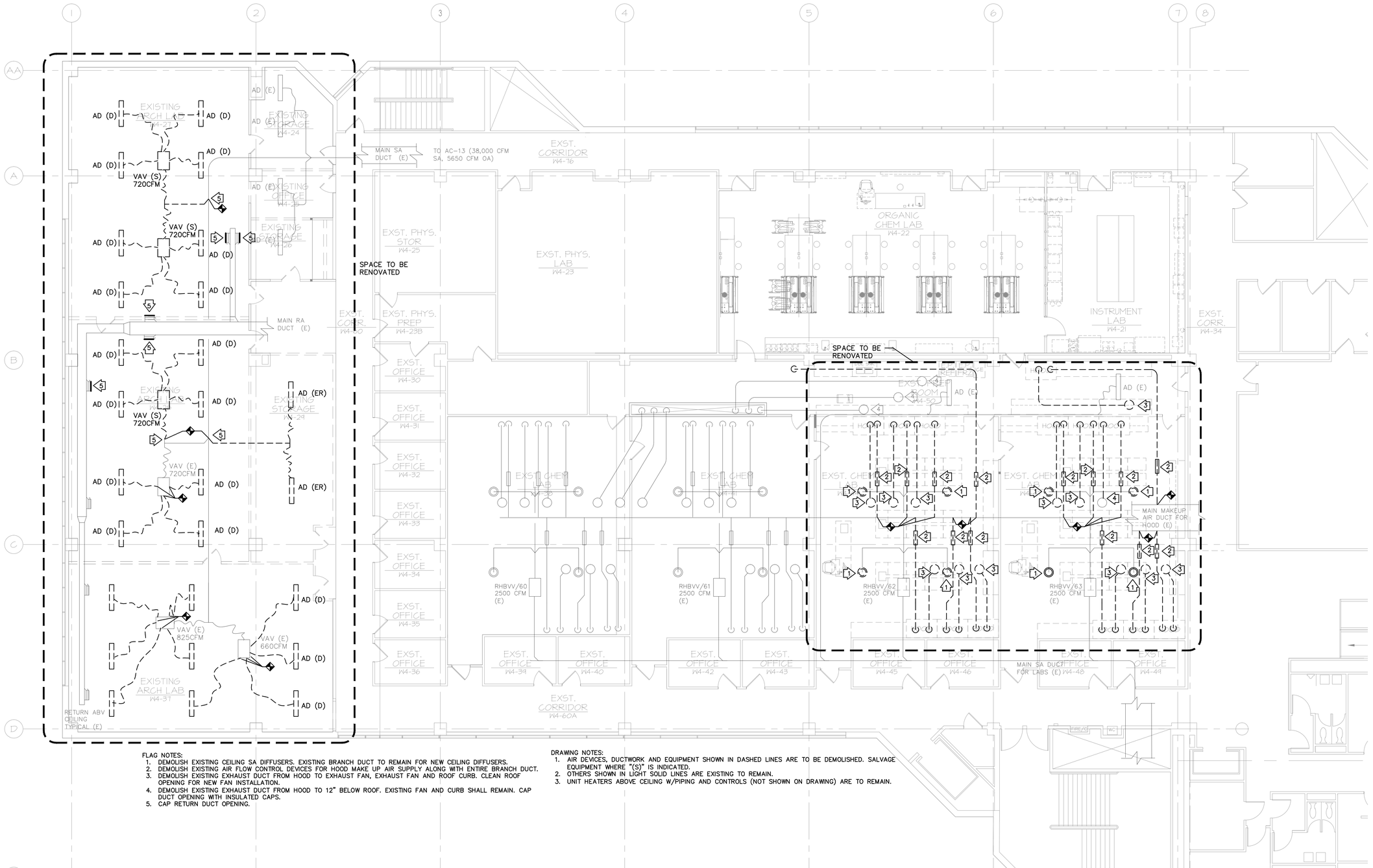

FLAG NOTES:
1. DEMOLISH EXISTING CEILING SA DIFFUSERS. EXISTING BRANCH DUCT TO REMAIN FOR NEW CEILING DIFFUSERS.
2. DEMOLISH EXISTING AIR FLOW CONTROL DEVICES FOR HOOD MAKE UP AIR SUPPLY ALONG WITH ENTIRE BRANCH DUCT.
3. DEMOLISH EXISTING EXHAUST DUCT FROM HOOD TO EXHAUST FAN, EXHAUST FAN AND ROOF CURB. 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.
5. CAP RETURN DUCT OPENING.

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 B HVAC DEMOLITION PLAN

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

0 2' 4' 8'

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

(WEST BUILDING RENOVATION)

COMMUNITY COLLEGE OF PHILADELPHIA

1700 SPRING GARDEN STREET, PHILADELPHIA, PA 19130

urban technology inc

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Consulting Engineers

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231 Tollgate Road
Quakertown, PA 18951
www.utengineers.com

UCI Architects, Inc.
Architecture Urban Planning
Historic Preservation

1630 Pine Street
Philadelphia, PA 19103

DRAWING TITLE

CHEMICAL LAB RENOVATION PHASE B HVAC DEMOLITION PLAN

DATE 8/11/2013

SCALE AS NOTED

DRAWN BY

CHECKED BY

PROJECT NUMBER 911

DRAWING NUMBER CLDH-104.B

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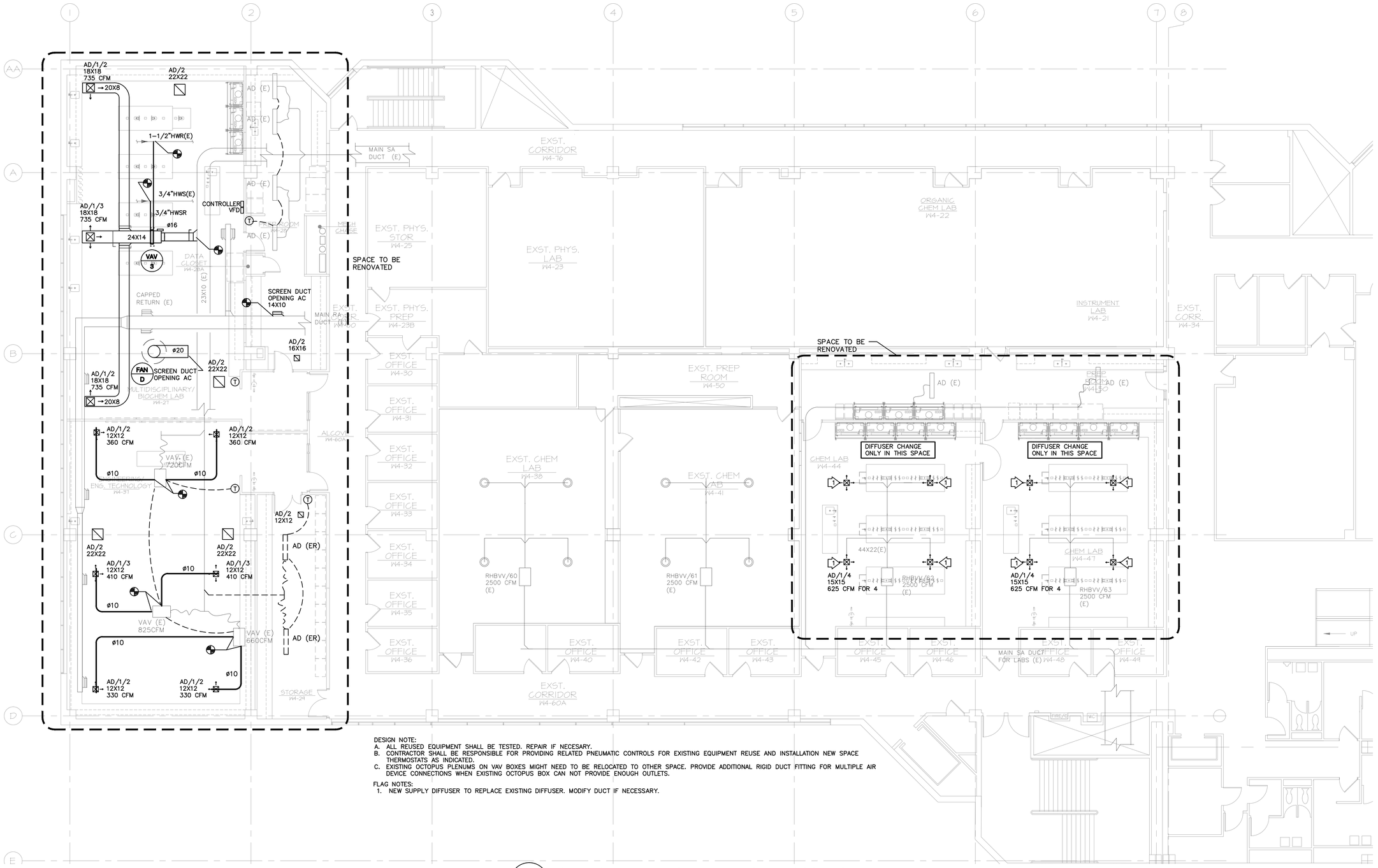

DESIGN NOTE:
A. ALL REUSED EQUIPMENT SHALL BE TESTED. REPAIR IF NECESARY.
B. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RELATED PNEUMATIC CONTROLS FOR EXISTING EQUIPMENT REUSE AND INSTALLATION NEW SPACE THERMOSTATS AS INDICATED.
C. EXISTING OCTOPUS PLENUMS ON VAV BOXES MIGHT NEED TO BE RELOCATED TO OTHER SPACE. PROVIDE ADDITIONAL RIGID DUCT FITTING FOR MULTIPLE AIR DEVICE CONNECTIONS WHEN EXISTING OCTOPUS BOX CAN NOT PROVIDE ENOUGH OUTLETS.

FLAG NOTES:
1. NEW SUPPLY DIFFUSER TO REPLACE EXISTING DIFFUSER. MODIFY DUCT IF NECESSARY.

1 CHEMICAL LAB PHASE B HEATING AND COOLING PLAN

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

0 2' 4' 8'

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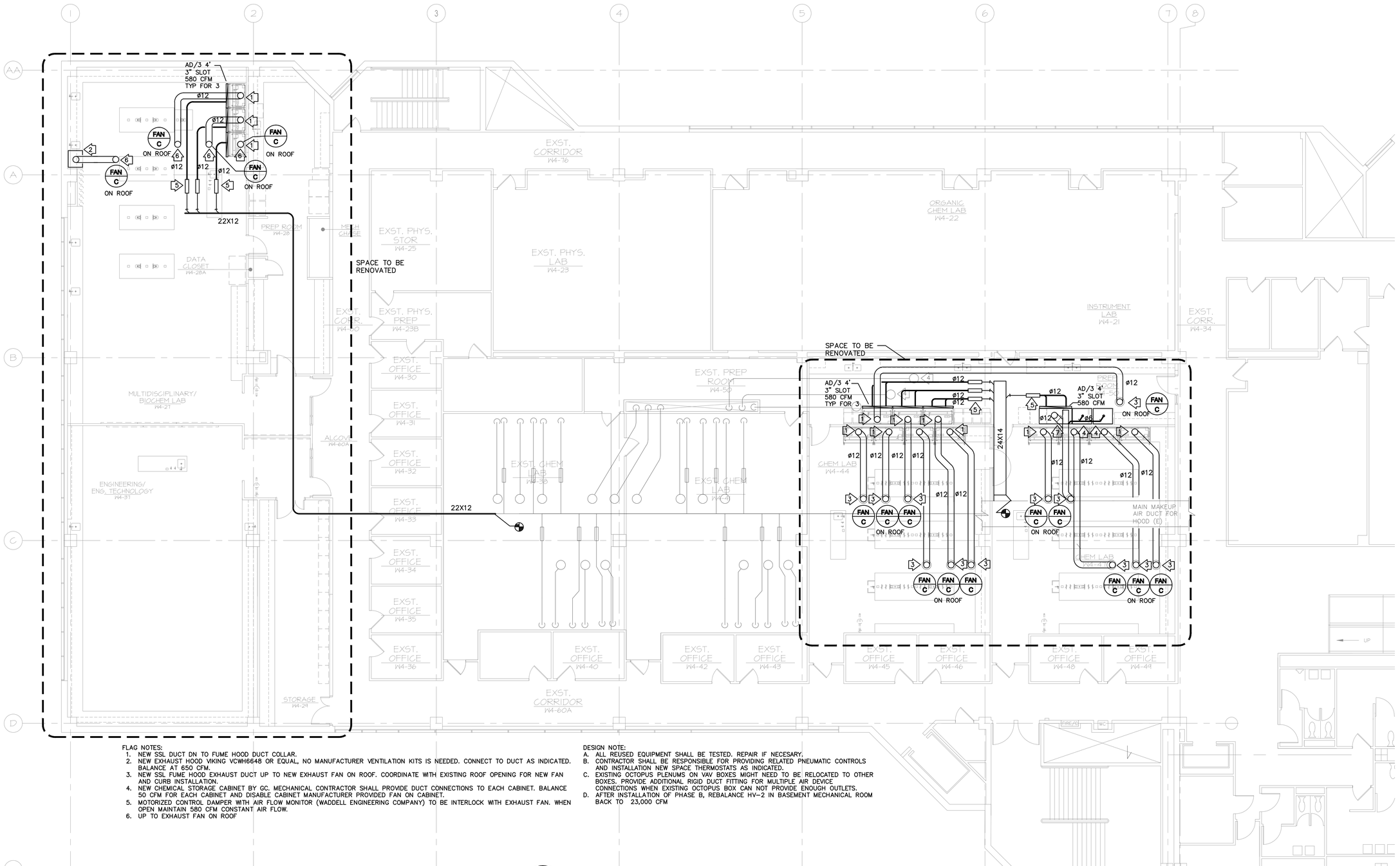

FLAG NOTES:
1. NEW SSL DUCT DN TO FUME HOOD DUCT COLLAR.
2. NEW EXHAUST HOOD VIKING VCWH6648 OR EQUAL, NO MANUFACTURER VENTILATION KITS IS NEEDED. CONNECT TO DUCT AS INDICATED. BALANCE AT 650 CFM.
3. NEW SSL FUME HOOD EXHAUST DUCT UP TO NEW EXHAUST FAN ON ROOF. COORDINATE WITH EXISTING ROOF OPENING FOR NEW FAN AND CURB INSTALLATION.
4. NEW CHEMICAL STORAGE CABINET BY GC. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT CONNECTIONS TO EACH CABINET. BALANCE 50 CFM FOR EACH CABINET AND DISABLE CABINET MANUFACTURER PROVIDED FAN ON CABINET.
5. MOTORIZED CONTROL DAMPER WITH AIR FLOW MONITOR (WADDELL ENGINEERING COMPANY) TO BE INTERLOCK WITH EXHAUST FAN. WHEN OPEN MAINTAIN 580 CFM CONSTANT AIR FLOW.
6. UP TO EXHAUST FAN ON ROOF

DESIGN NOTE:
A. ALL REUSED EQUIPMENT SHALL BE TESTED. REPAIR IF NECESARY.
B. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RELATED PNEUMATIC CONTROLS AND INSTALLATION NEW SPACE THERMOSTATS AS INDICATED.
C. EXISTING OCTOPUS PLENUMS ON VAV BOXES MIGHT NEED TO BE RELOCATED TO OTHER BOXES. PROVIDE ADDITIONAL RIGID DUCT FITTING FOR MULTIPLE AIR DEVICE CONNECTIONS WHEN EXISTING OCTOPUS BOX CAN NOT PROVIDE ENOUGH OUTLETS.
D. AFTER INSTALLATION OF PHASE B, REBALANCE HV-2 IN BASEMENT MECHANICAL ROOM BACK TO 23,000 CFM

1 CHEMICAL LAB PHASE B FUME HOOD EXHAUST PLAN

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

0 2' 4' 8'

REVISIONS

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DRAWING TITLE

CHEMICAL LAB RENOVATION PHASE B LAB EXHAUST PLANS

DATE 8/11/2013

SCALE AS NOTED

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PROJECT NUMBER 911

DRAWING NUMBER CLH-204.B

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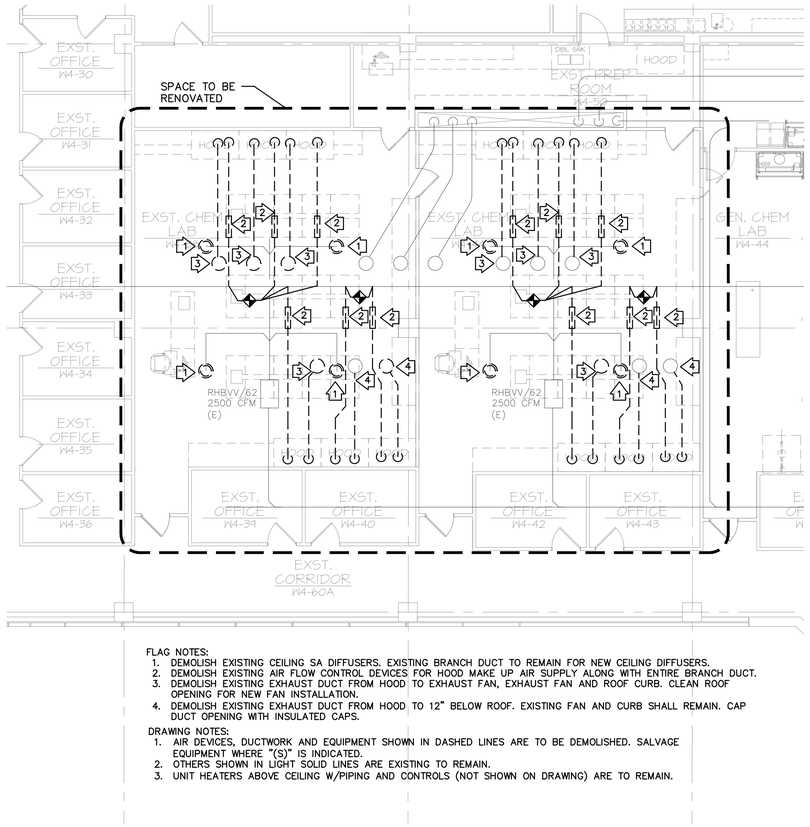


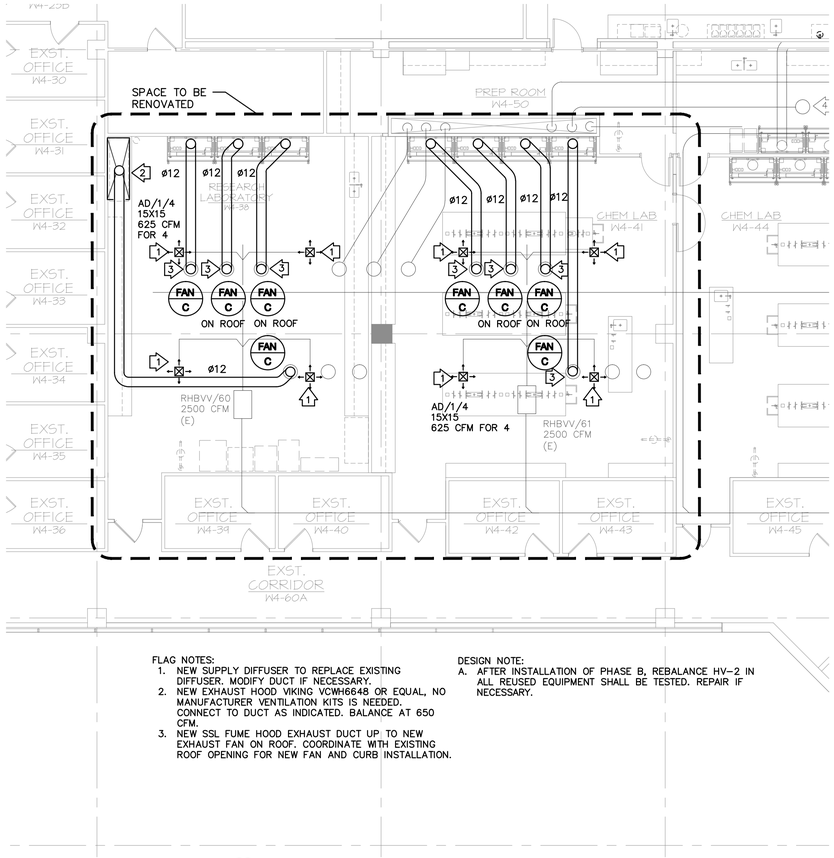
FLAG NOTES:
1. DEMOLISH EXISTING CEILING SA DIFFUSERS. EXISTING BRANCH DUCT TO REMAIN FOR NEW CEILING DIFFUSERS.
2. DEMOLISH EXISTING AIR FLOW CONTROL DEVICES FOR HOOD MAKE UP AIR SUPPLY ALONG WITH ENTIRE BRANCH DUCT.
3. DEMOLISH EXISTING EXHAUST DUCT FROM HOOD TO EXHAUST FAN, EXHAUST FAN AND ROOF CURB. 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'

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8/15/13 ISSUE FOR BID

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P: 215-536-0808 F: 215-689-0936
231 Tollgate Road
Quakertown, PA 18951
www.uteingineers.com

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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 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.

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 QQ-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 55A-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	
DS	LABORATORY SINK	1-1/2"	1/2"	1/2"	TECLAB SS-2918, WITH FM8-412 FAUCET	
BS	BENCH END SINK	1-1/2"	1/2"	1/2"	ADVANCE TABCO 4-1-24 W/BK RESOURCES BKF-12	
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	

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FOURTH FLOOR PLUMBING COVER SHEET

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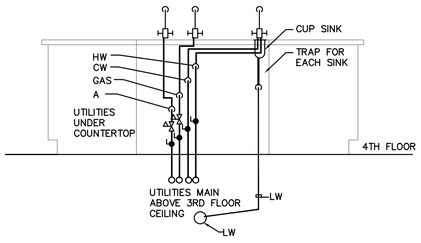
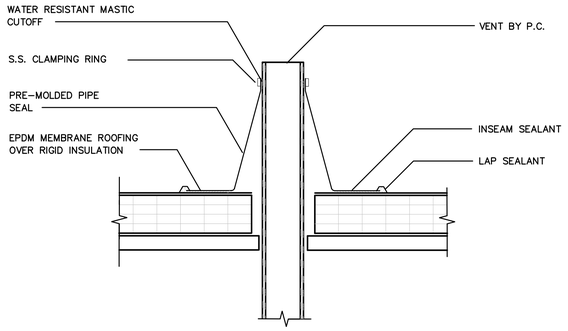
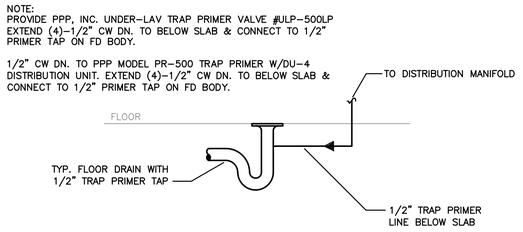


1 CLP001 **BENCH PIPING DETAIL**
SCALE: NONE



2 CLP001 **VENT THROUGH ROOF**
SCALE: NONE



3 CLP001 **TRAP PRIMER DETAIL**
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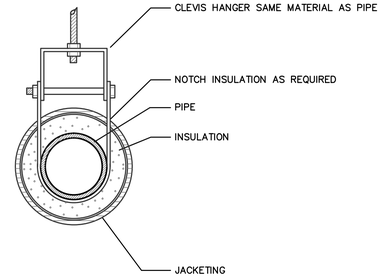
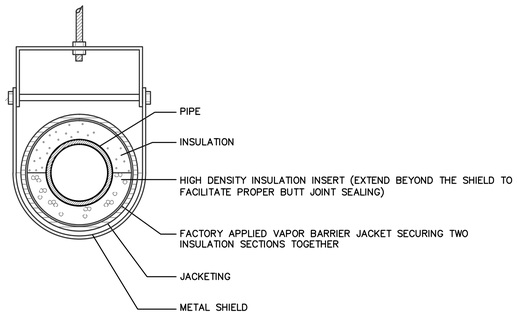
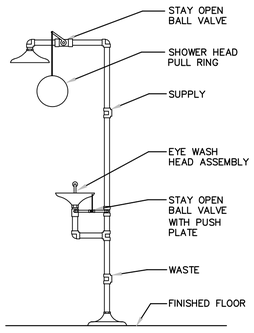


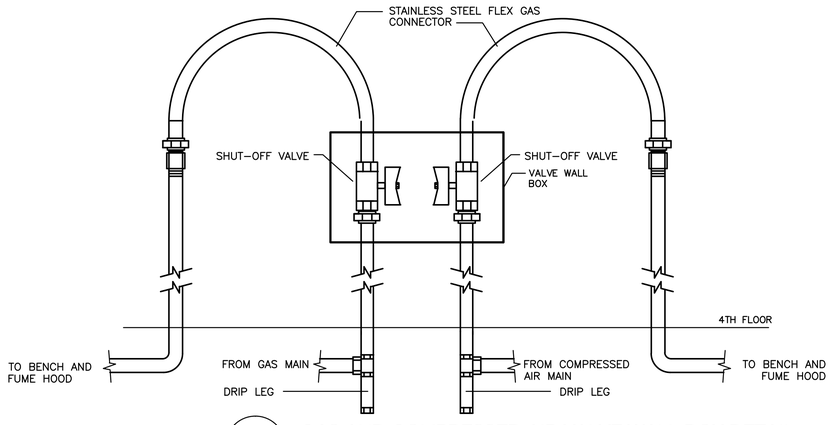
4 CLP001 **DOMESTIC HW PIPE HANGER DETAIL**
SCALE: NONE



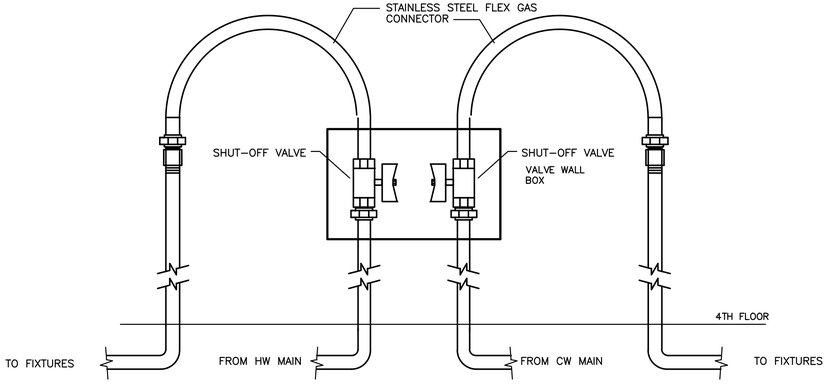
5 CLP001 **DOMESTIC CW PIPE HANGER DETAIL**
SCALE: NONE



6 CLP001 **EMERGENCY SHOWER WITH EYE WASH DETAIL**
SCALE: NONE



7 CLP001 **GAS AND COMPRESSED AIR VALVE WALL BOX DETAIL**
SCALE: NONE



8 CLP001 **WATER VALVE WALL BOX DETAIL**
SCALE: NONE

DEMOLITION NOTES

1. CONTRACTOR SHALL SURVEY AND VERIFY EXISTING CONDITIONS PRIOR TO COST PROPOSAL 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 CCP 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 CCP 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. THE CONTRACTORS RESPONSIBLE FOR THE REMOVAL, IN ITS ENTIRETY OF ANY INACTIVE ELEMENTS FOUND DURING EXCAVATION; INCLUDING, BUT NOT LIMITED TO ABANDONED PIPES, PIPE CONDUITS, DUCTWORK, AIR DEVICES, AND VALVES AS PER CODE, TO THEIR LEGAL POINT OF ORGIN. 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.
5. CONTRACTOR SHALL PATCH ALL HOLES IN WALLS AND FLOORS RESULTING FROM REMOVAL OF DUCTWORK, PIPING, 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 PHILADELPHIA BUILDING INSPECTOR.
6. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
7. THE CONTRACTOR SHALL REMOVE ALL EXISTING DUCTWORK, AND PIPING/DUCT INSULATION.
8. PROVIDE ALTERATION AND DEMOLITION OF MECHANICAL FACILITIES AS REQUIRED BY THE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW THE EXACT LOCATION AND NUMBER OF ALL EXISTING MECHANICAL WORK; HOWEVER, THE INTENDED EXTENT OF DEMOLITION WORK HAS BEEN DEFINED ON THE DRAWINGS. DO NOT BEGIN THE WORK UNTIL TIME SCHEDULES AND MANNER OF OPERATIONS HAVE BEEN APPROVED BY THE CCP. ALL INTERRUPTIONS OF EXISTING SERVICES SHALL BE INCLUDED IN THE SCHEDULES AS APPROVED BY THE CCP, AND SO IDENTIFIED. VERIFY THE LOCATION OF ALL EXISTING MECHANICAL EQUIPMENT, PIPING, FITTINGS, VALVES, DUCTWORK, INSULATION, CONTROLS, AND OTHER MECHANICAL FACILITIES. PROVIDE FOR THE REMOVAL, RELOCATION, REROUTING AND RECONNECTION OF THIS WORK AND ANY RELATED WORK AS REQUIRED BECAUSE OF DEMOLITION METHODS OR SEQUENCES EMPLOYED. OBTAIN THE CCP'S PERMISSION PRIOR TO COMMENCING ANY WORK. WHERE EXISTING EQUIPMENT MUST REMAIN IN SERVICE DURING CONSTRUCTION, PROVIDE REROUTING AND RECONNECTION OF MECHANICAL SERVICES AS REQUIRED TO MAINTAIN CONTINUOUS SERVICE. PROTECT EXISTING EQUIPMENT (TO BE REUSED) FROM POSSIBLE DAMAGE DURING DEMOLITION WORK.

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FOURTH FLOOR PLUMBING DETAILS

DATE
8/11/2013

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PROJECT NUMBER
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CLP-001

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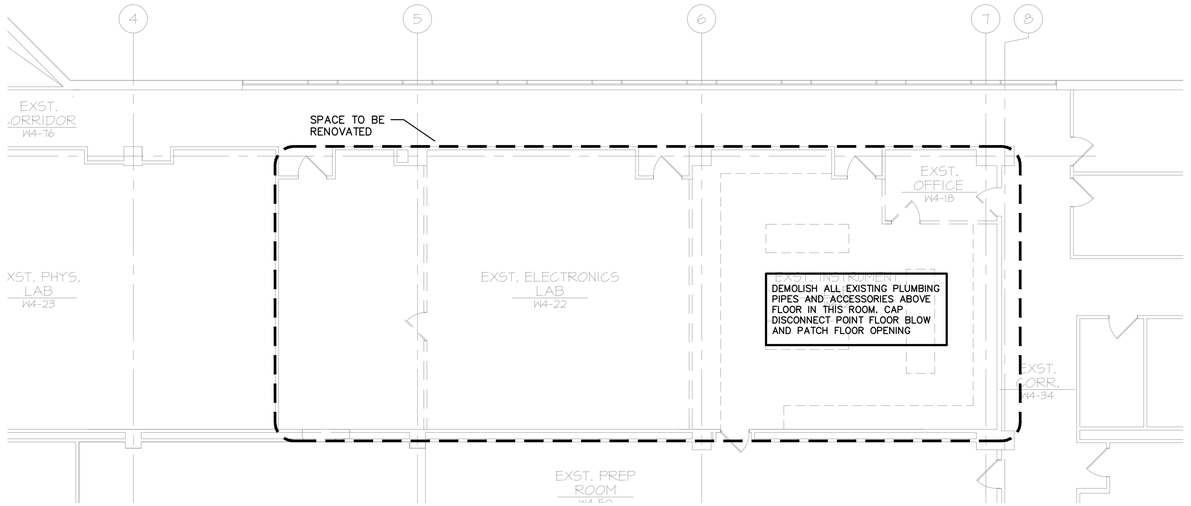


1 **CHEMICAL LAB PHASE A PLUMBING WATER DEMOLITION PLAN**

SCALE: 1/8"=1'-0" 0 2' 4' 8'

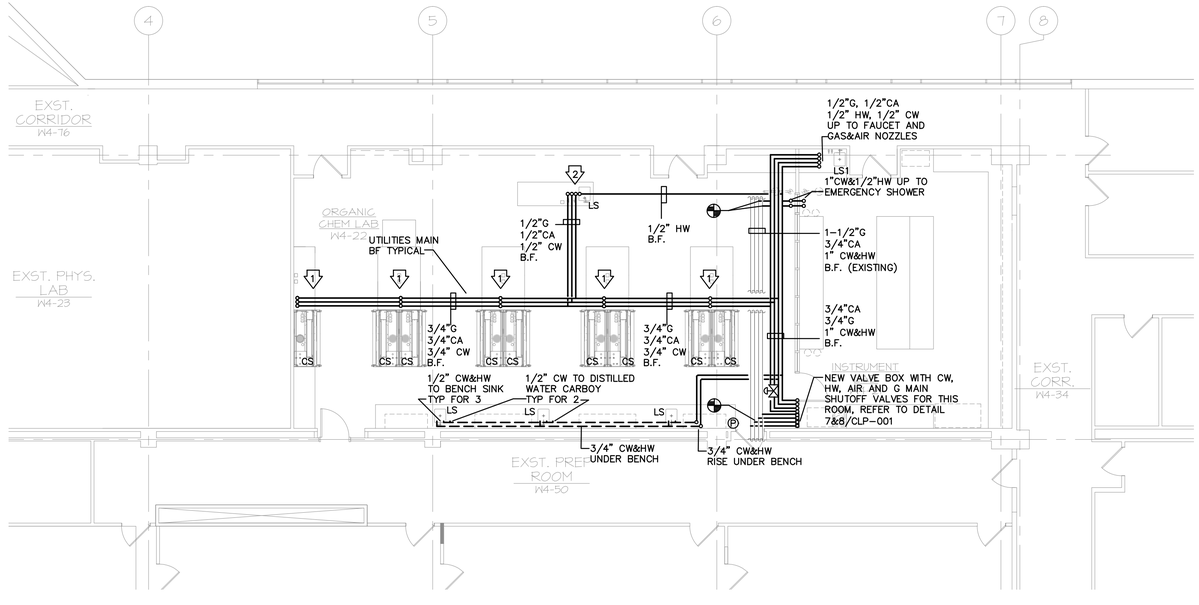
FLAG NOTES:

1. 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:
   - TWO FAUCET 1/2" CW, AND ONE CUP SINK
   - TWO COMPRESSED AIR NOZZLE 1/2" A WITH VALVE
   - TWO GAS NOZZLE 1/2" WITH 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

   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.

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

NEW SOLENOID GAS VALVE, NORMALLY OFF FOR EMERGENCY GAS SHUTDOWN



2 **CHEMICAL LAB PHASE A PLUMBING WATER PLAN**

SCALE: 1/8"=1'-0" 0 2' 4' 8'

REVISIONS

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CHEMICAL LAB RENOVATION PHASE A PLUMBING WATER PLANS

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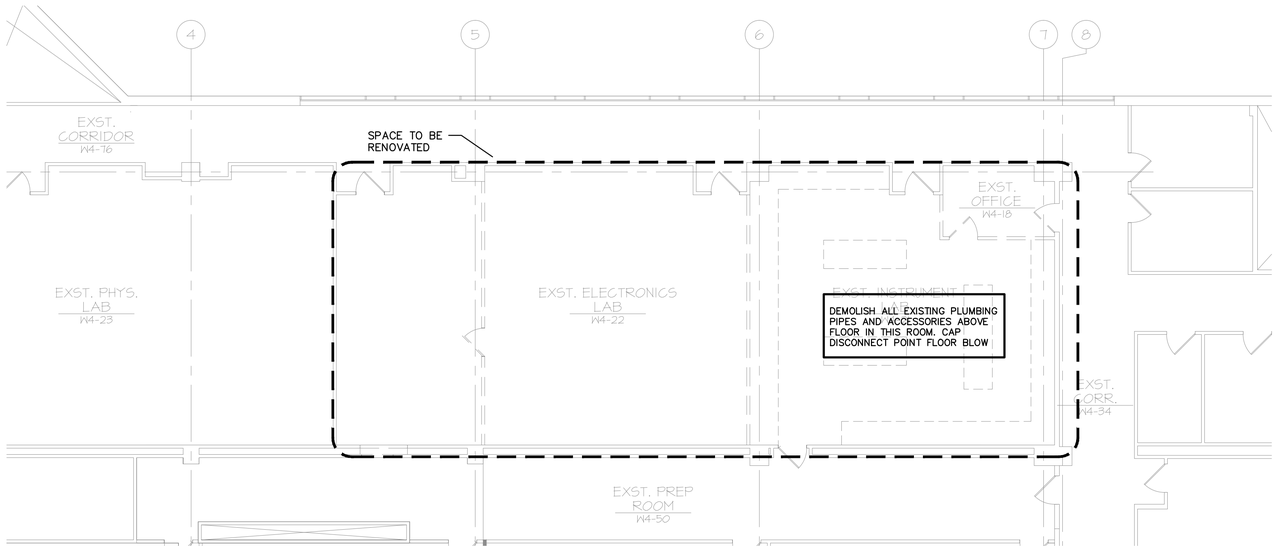
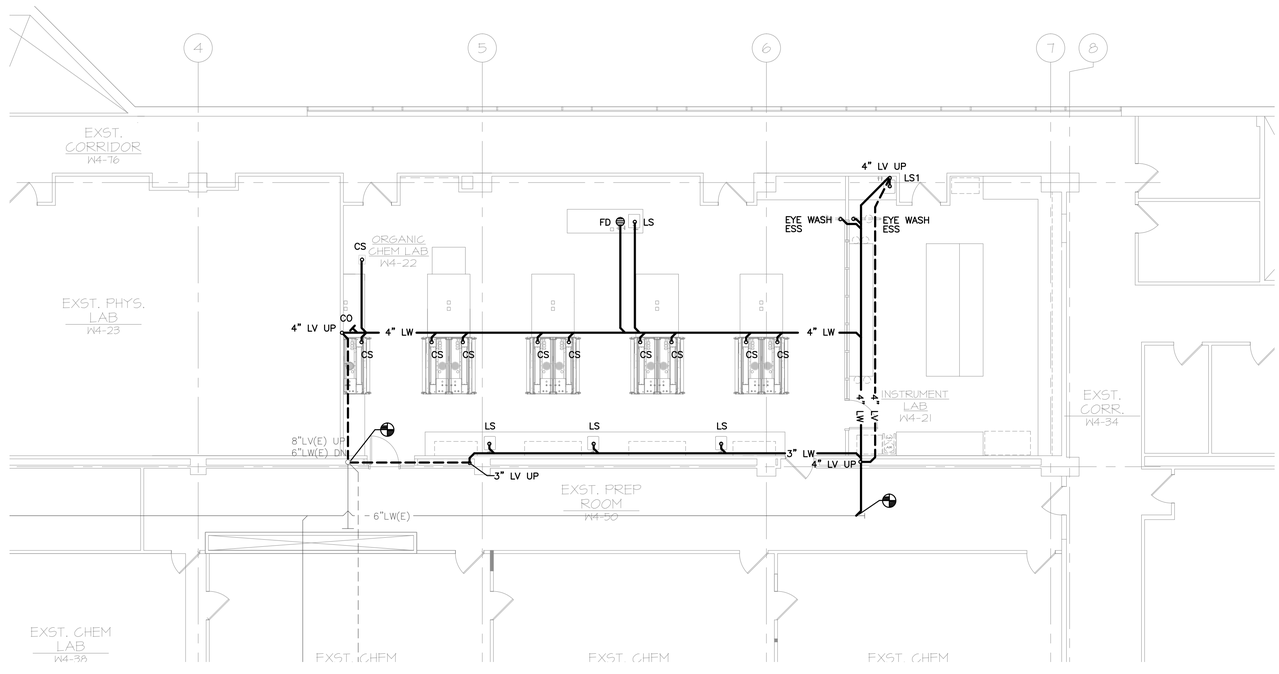


1 **CHEMICAL LAB PHASE A PLUMBING WASTE DEMOLITION PLAN**
SCALE: 1/8"=1'-0"
0 2' 4' 8'



2 **CHEMICAL LAB PHASE A PLUMBING WASTE PLAN**
SCALE: 1/8"=1'-0"
0 2' 4' 8'

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DRAWING TITLE
CHEMICAL LAB RENOVATION PHASE A PLUMBING WASTE PLANS

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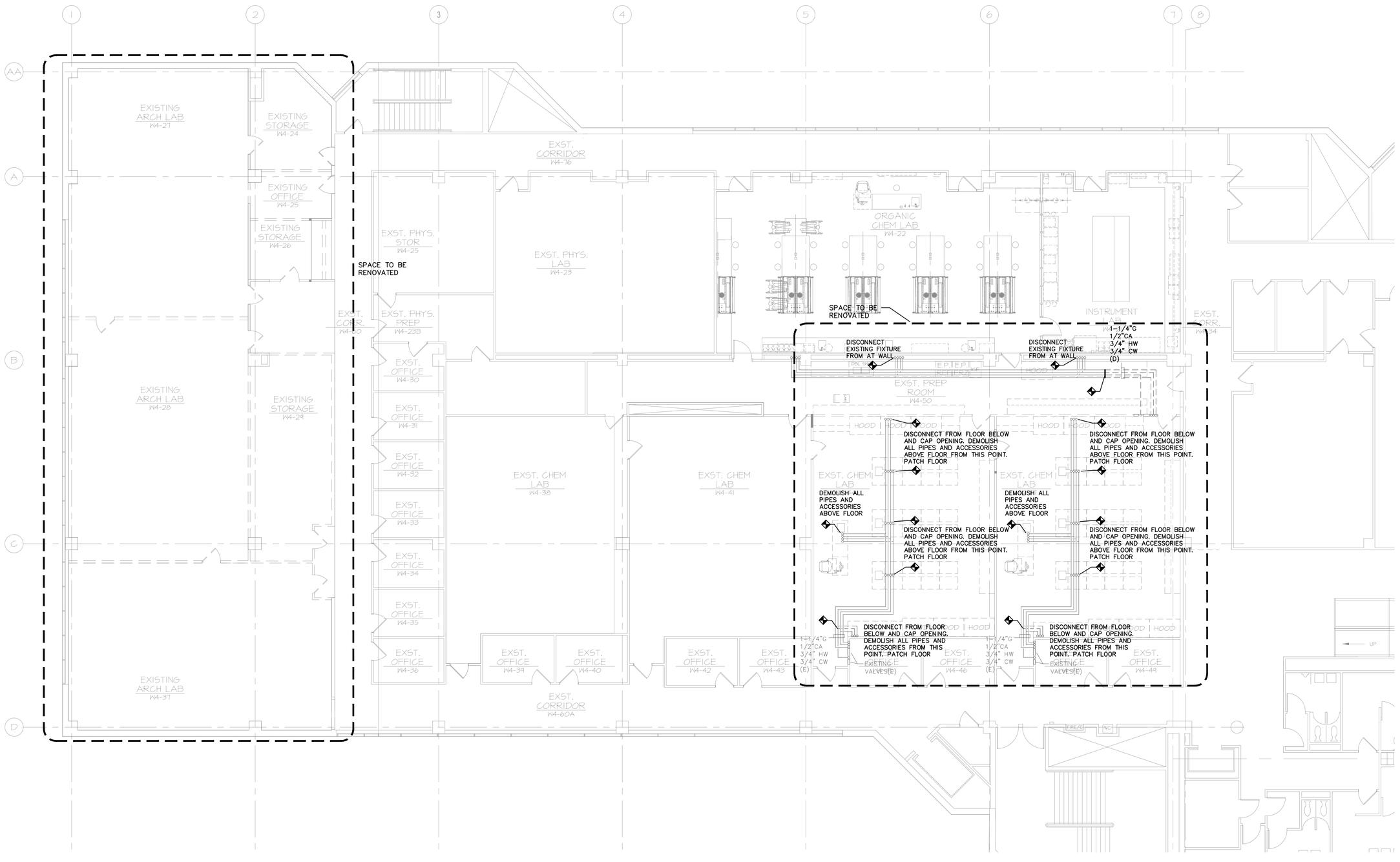

1 CHEMICAL LAB PHASE B PLUMBING WATER DEMOLITION PLAN

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

0 2' 4' 8'

REVISIONS

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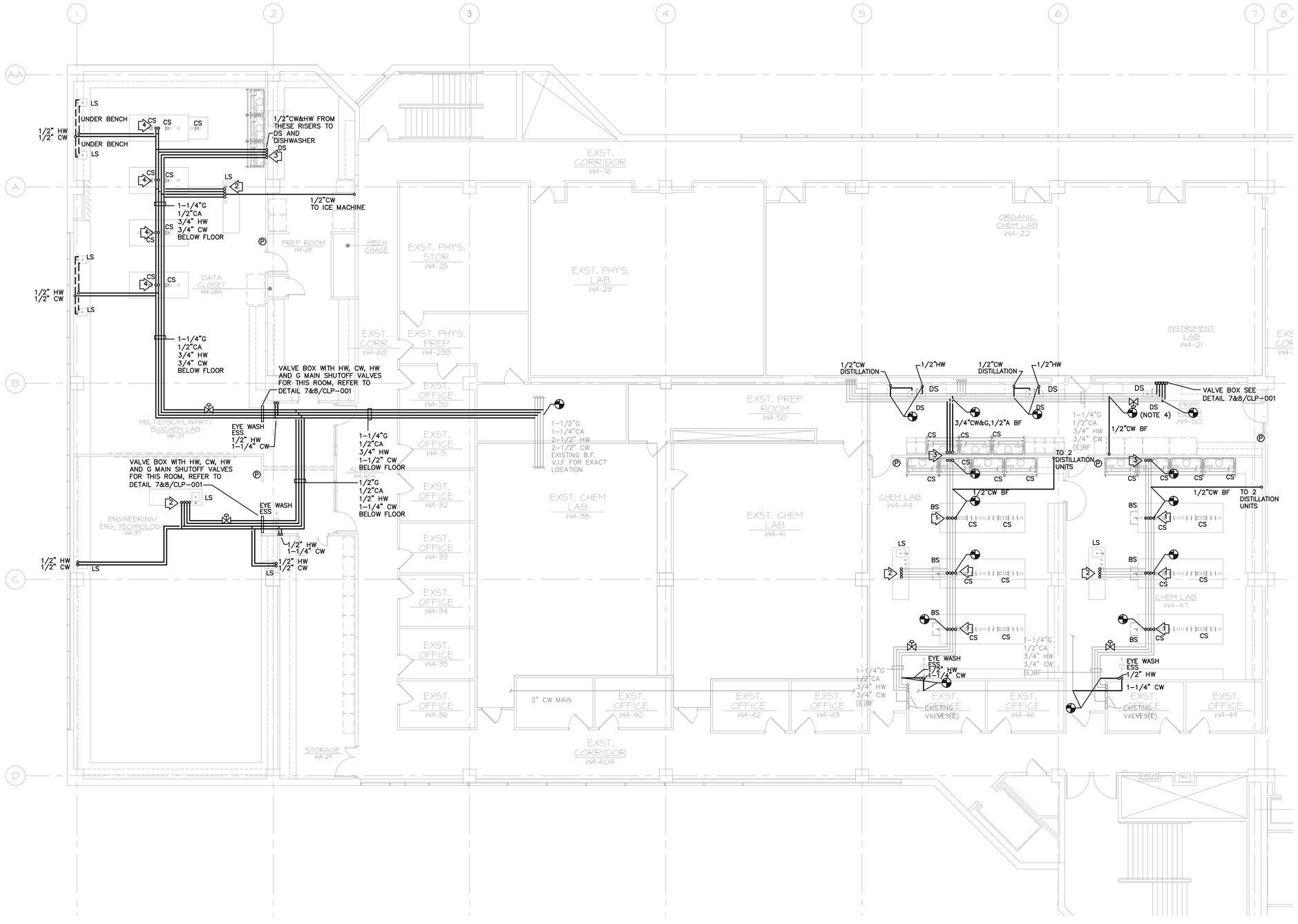

1 **CHEMICAL LAB PHASE B PLUMBING WATER PLAN**
SCALE: 1/8"=1'-0"

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

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CHEMICAL LAB RENOVATION PHASE B PLUMBING WATER PLAN

DATE 8/11/2013

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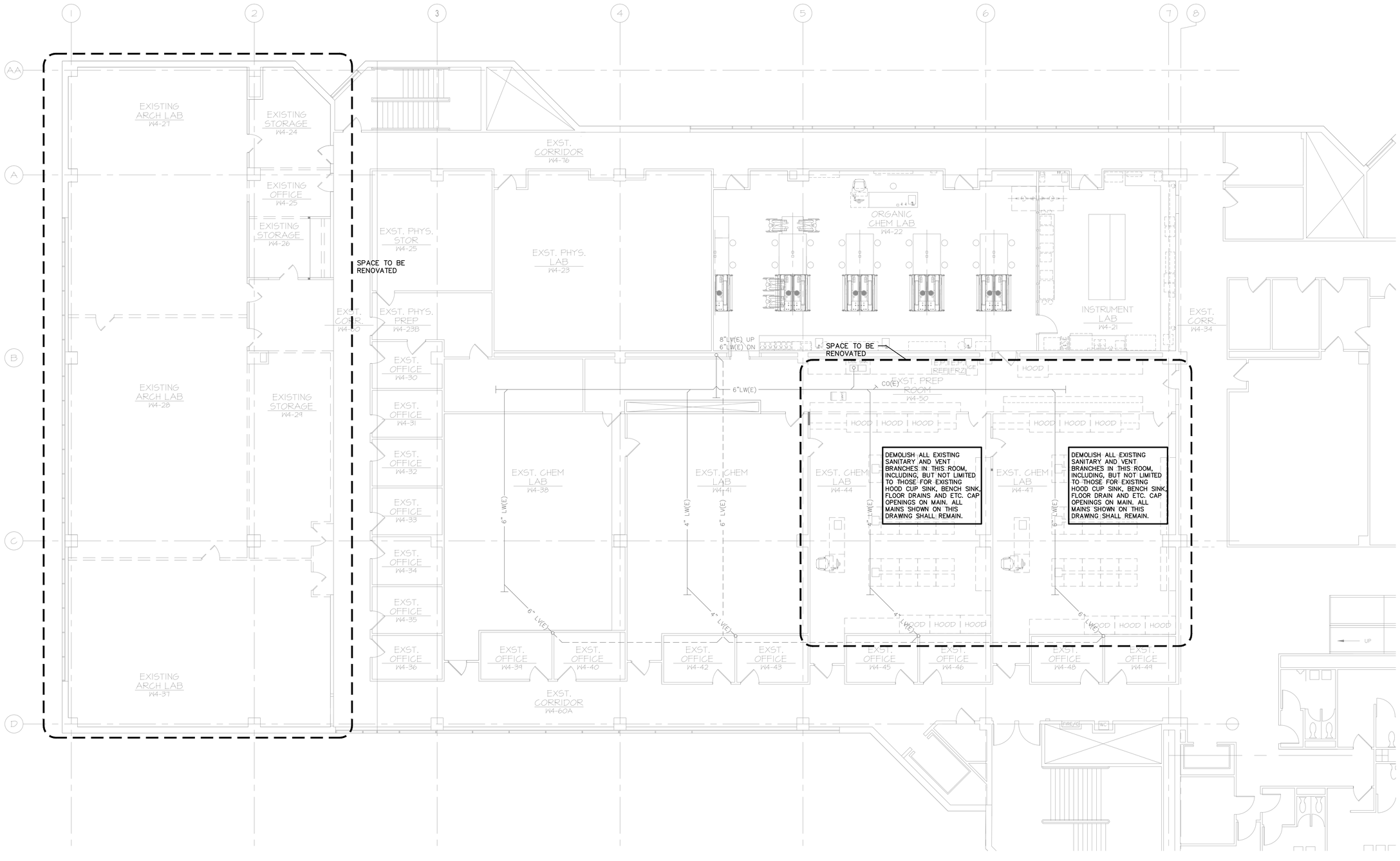

1 **CHEMICAL LAB PHASE B PLUMBING WASTE DEMOLITION PLAN**

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

0 2' 4' 8'

REVISIONS

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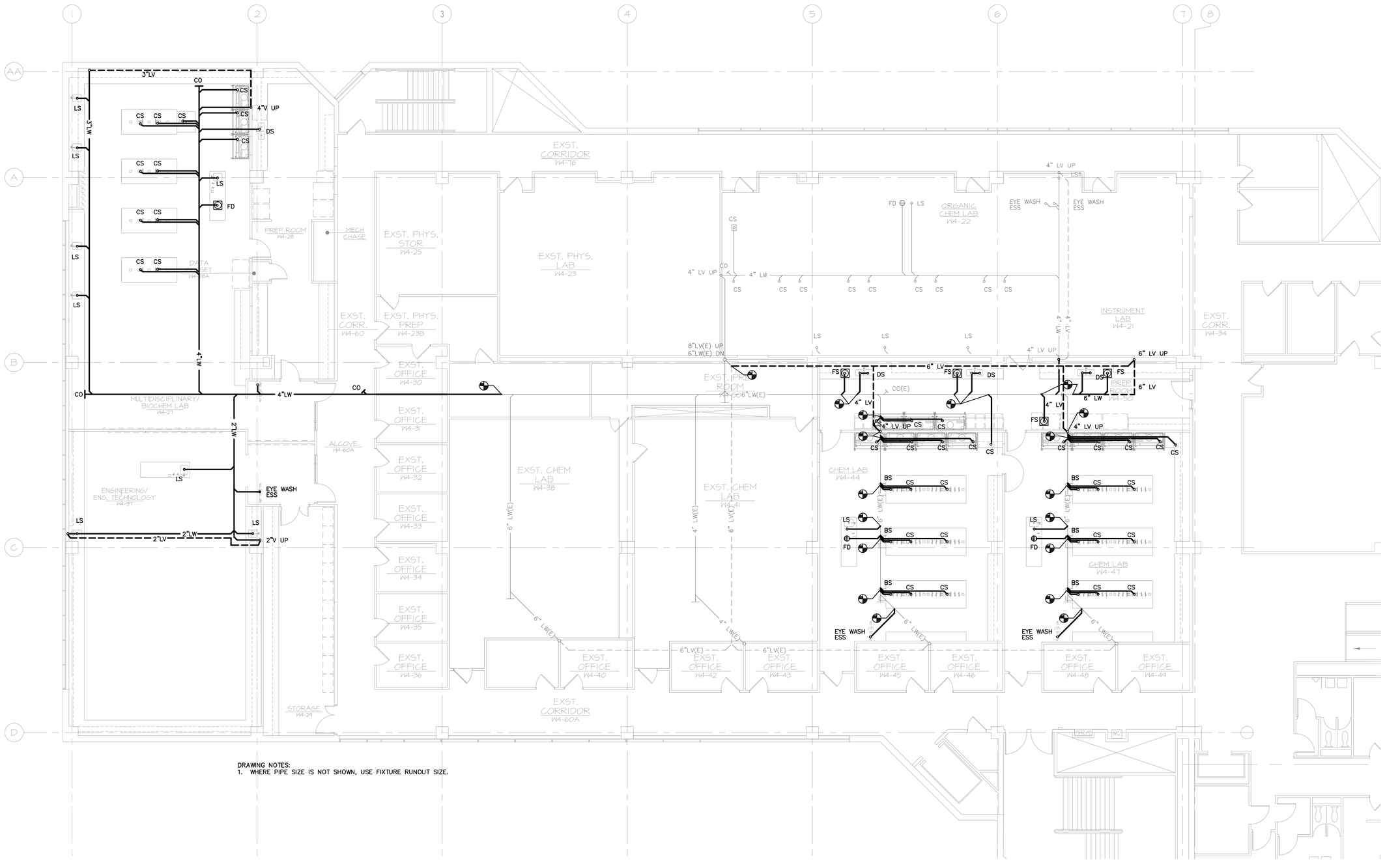

DRAWING NOTES:
1. WHERE PIPE SIZE IS NOT SHOWN, USE FIXTURE RUNOUT SIZE.

1 CHEMICAL LAB PHASE B PLUMBING WASTE PLAN

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

0 2' 4' 8'

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PROJECT NUMBER 911

DRAWING NUMBER CLP-204.B

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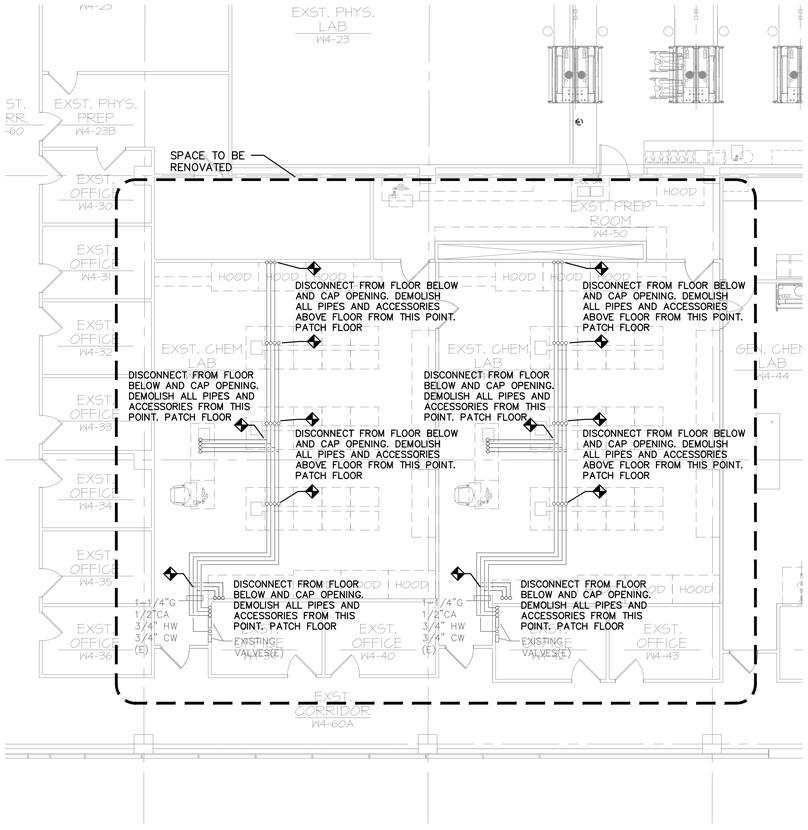
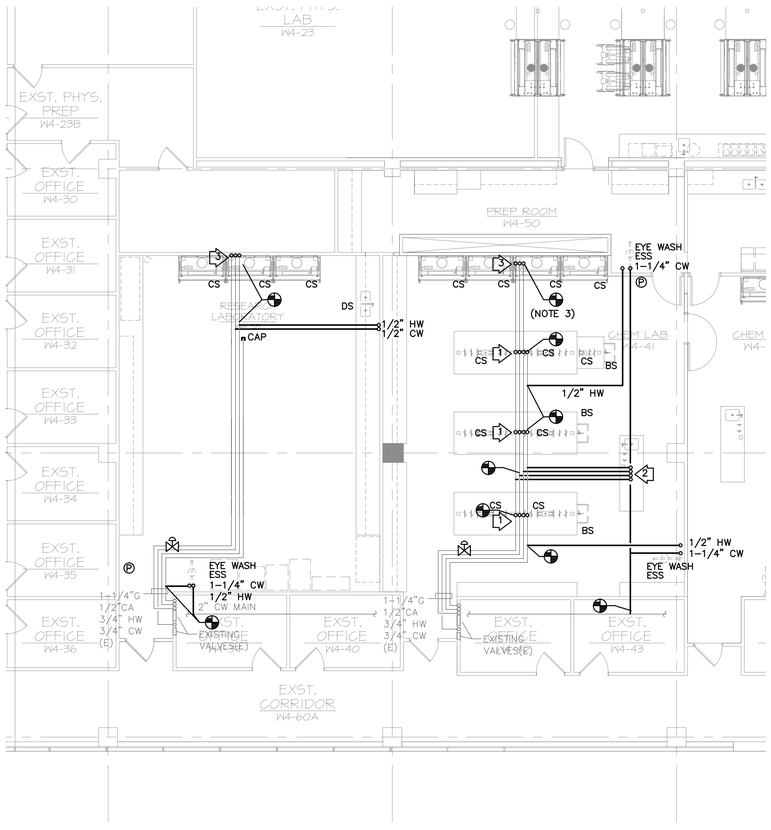


1 CHEMICAL LAB PHASE C PLUMBING WATER DEOMLITION PLAN

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.

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

NEW SOLENOID GAS VALVE, NORMALLY OFF FOR EMERGENCY GAS SHUTDOWN

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS

(WEST BUILDING RENOVATION)

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DRAWING TITLE

CHEMICAL LAB RENOVATION PLUMBING WATER PHASE C PLANS

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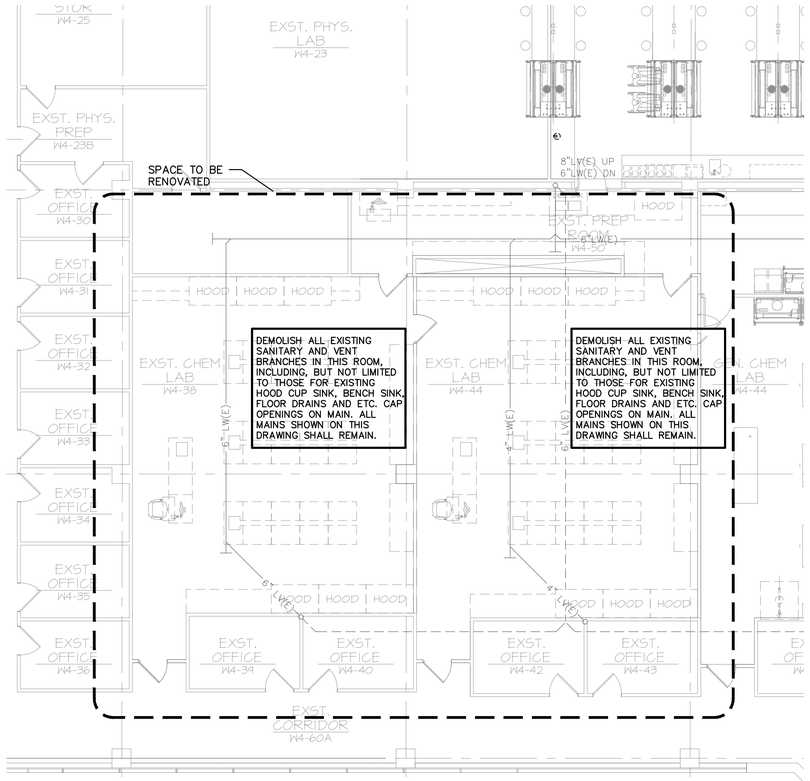

1 CHEMICAL LAB PHASE C PLUMBING WASTE DEOMLITION PLAN

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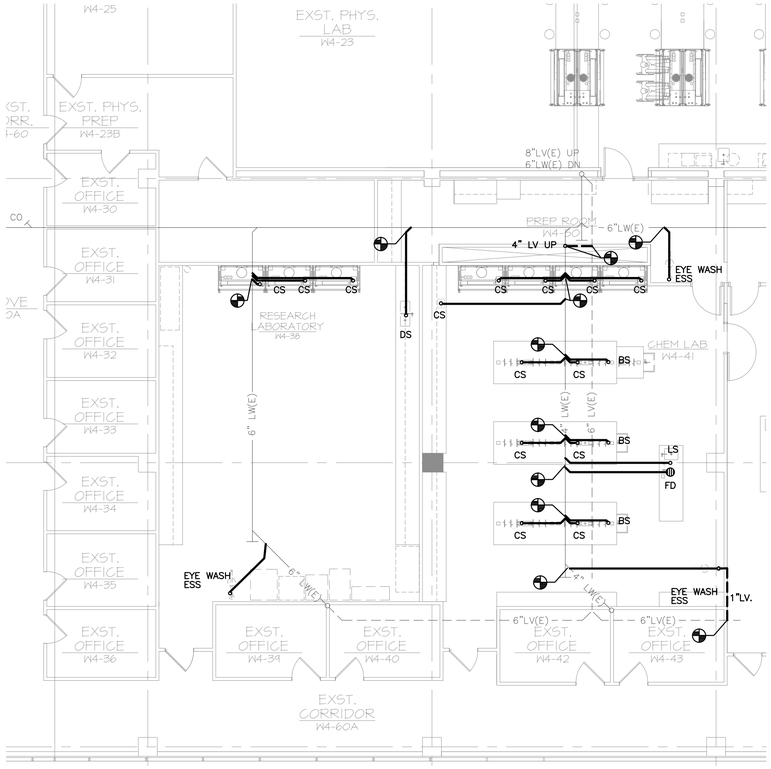

DRAWING NOTES:
1. WHERE PIPE SIZE IS NOT SHOWN, USE FIXTURE RUNOUT SIZE.

2 CHEMICAL LAB PHASE C PLUMBING WASTE PLAN

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

0 2' 4' 8'

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SYMBOLS & ABBREVIATIONS

T.S.	TAMPER SWITCH
SPKR	SPRINKLER
⊕	PENDANT SPRINKLER WITH CHROME ESCUTCHEON PLATE
●	CONCEALED SPRINKLER HEAD (COLOR TO BE COORDINATED W/ ARCHITECT)

DESIGN CRITERIA

1. THE FIRE PROTECTION SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS PER NFPA-13 2010, ALL AUTHORITIES HAVING JURISDICTION, & LANDLORD'S INSURANCE CO.
2. HAZARD OCCUPANCY:
   ORDINARY HAZARD GROUP II STORAGE ROOM
   MINIMUM DENSITY – 0.17 GPM/FT^2 OVER THE MOST REMOTE 3,000 FT^2.

   LIGHTING HAZARD: ALL OTHER AREAS
   MINIMUM DENSITY – 0.10 GPM/FT^2 OVER THE MOST REMOTE 1,500 FT^2.
3. ALL PIPE SHALL BE BLACK STEEL SCH 40 PIPE AS PER NFPA-13. MAXIMUM VELOCITY IN PIPE SHALL BE 20 FT./SEC.
4. THE CONTRACTOR SHALL SUBMIT THE APPROPRIATE SHOP DRAWING TO THE REVIEWING AGENCY FOR APPROVAL & OBTAINING PERMIT. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED BY THIS CONTRACTOR AND SHALL BE SUBMITTED TO ALL AUTHORITIES HAVING JURISDICTION, LANDLORD'S INSURANCE COMPANY AND I.S.O. SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO FABRICATION OF ALL MATERIAL OR STARTING ANY WORK. SHOP DRAWING SHALL COMPLY WITH NFPA-13, SECTION "PLANS, AND CALCULATIONS." SHOW ELEVATIONS FOR SYSTEM.
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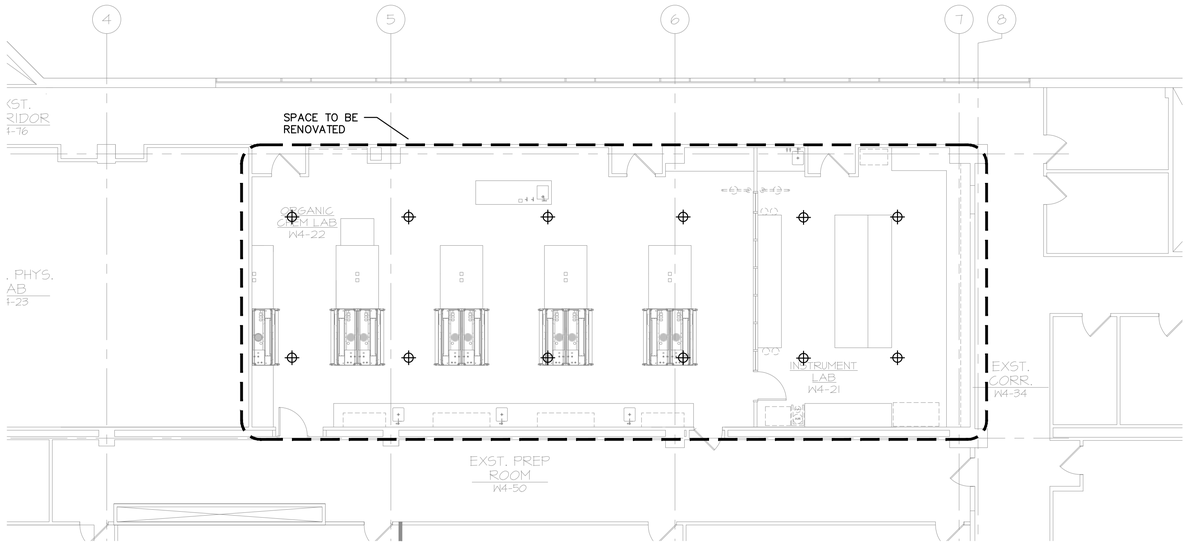
10. SUBJECT TO APPROVAL BY ALL AUTHORITIES HAVING JURISDICTION AND OWNER'S INSURANCE COMPANY, CONTRACTOR SHALL PROVIDE 4' FLEXIBLE HOSE FROM SPRINKLER HEADS TO END OF BRANCH PIPE FOR FOR FUTURE HEAD LOCATION CHANGE. INSTALL PER NFPA 13.



1 **CHEMICAL LAB PHASE A SPRINKLER SYSTEM PLAN**
SCALE: 1/8"=1'-0"

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8/15/13 ISSUE FOR BID

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CHEMICAL LAB RENOVATION PHASE A SPRINKLER PLAN

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SYMBOLS & ABBREVIATIONS

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⊕	PENDANT SPRINKLER WITH CHROME ESCUTCHEON PLATE
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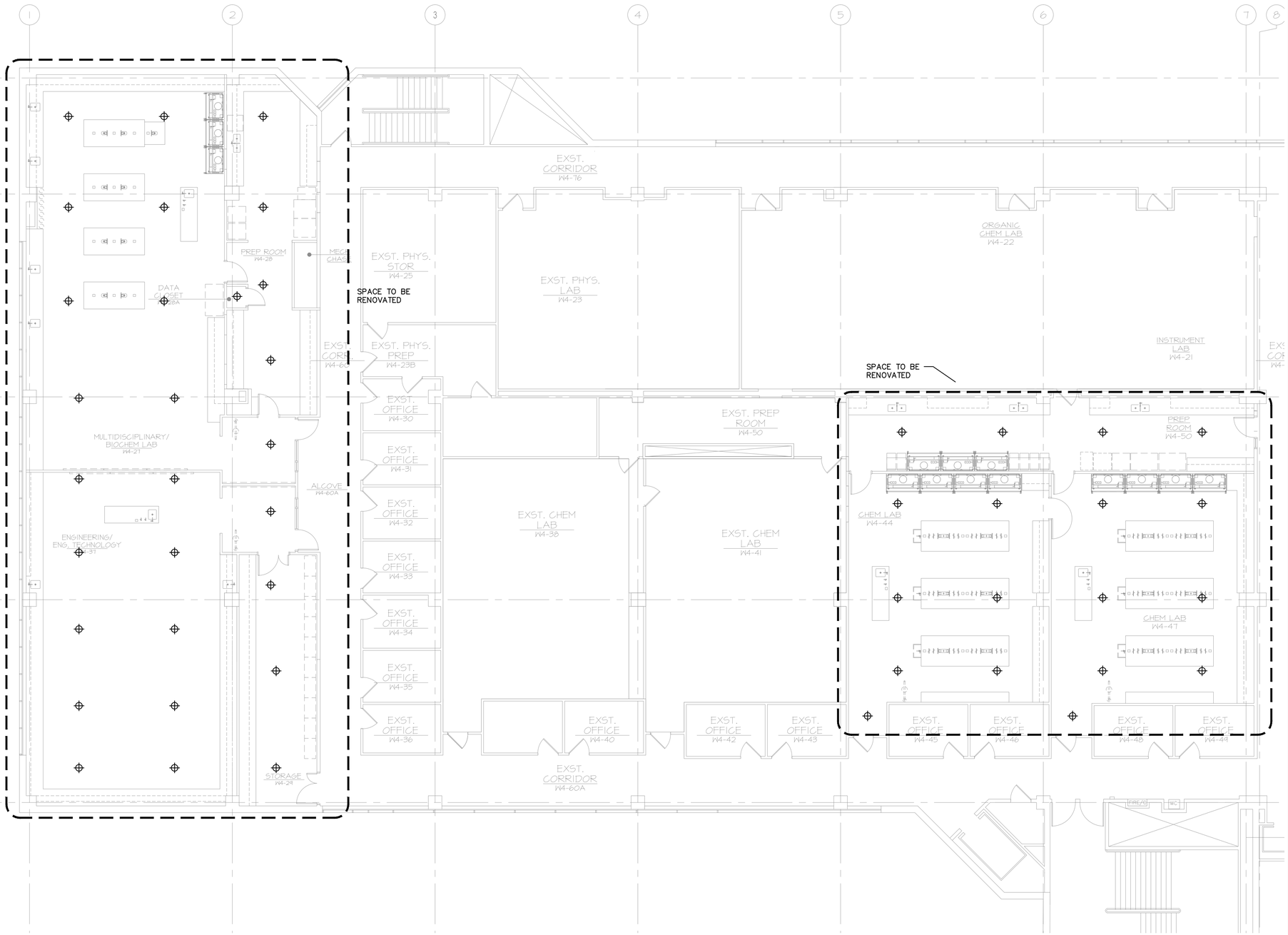

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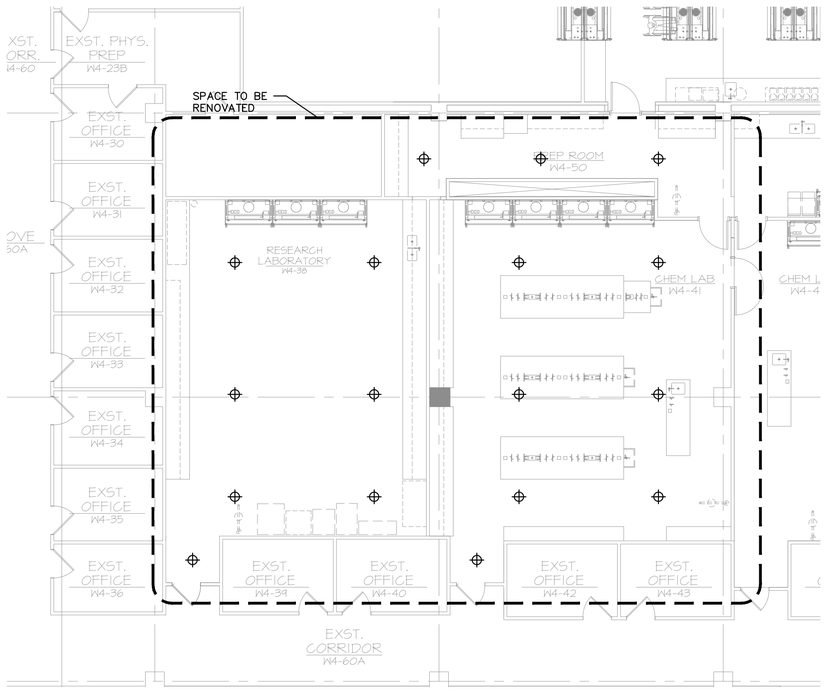

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PLAN SYMBOL LEGEND

POWER DEVICE SYMBOLS

	single receptacle – 125v,2p,3w,20A
IG	duplex receptacle – 125v,2p,3w IG – isolated groung duplex receptacle, 125v,2p,3w,20A SP – surge suppression duplex receptacle, 125v,2p,3w,20A BL – blue face, Specification Grade, duplex receptacle, 125W 2p, 3w, 20A, Hubbell no. 5352BLU
	duplex recpt (1) recpt controlled by switch – 125v,2p,3w
	quadraplex receptacle – 125v,2p,3w
	duplex recpt ground fault circuit interrupter – 125v,2p,3w
	duplex receptacle on emergency power – 125v,2p,3w
	single receptacle on emergency power – 125v,2p,3w
L5-20R	non–locking special purpose receptacle NEMA configuration as indicated
L5-20R	locking special purpose receptacle NEMA configuration as indicated
	floor or ceiling single receptacle
	floor or ceiling duplex receptacle
L5-20R	floor or ceiling non–locking special purpose receptacle NEMA configuration as indicated
L5-20R	floor or ceiling locking special purpose receptacle NEMA configuration as indicated
HCR2	ceiling mounted junction box w/hanging receptacle cord
	fire rated pokethru
	floor box
	floor outlet with device as shown
	conduit stub–up with device as shown
C	clock hanger [clock functions] C– conventional D– digital ET– elapsed timer M– master 2– double face
CSG	clock signal generator
J	junction box
	outlet box with blank cover
PB	PB–pull box, FB–floor box, CP–Control Panel
	control station
ES	emergency shutdown pushbutton
FF	furniture system FF–power connection FC–tele/data connection

POWER EQUIPMENT SYMBOLS

	vertical motor
	horizontal motor
HF	unfused safety disconnect switch
30A	fused safety disconnect switch
	circuit breaker
	motor starter
P	combination motor starter and disconnect switch
	combination motor starter and circuit breaker
30A	combination motor starter and fused disconnect switch
	electrical panel – surface mounted [access area does not plot]
	electrical panel – flush mounted [access area does not plot]
	distribution panel [access area does not plot]
T	transformer
BD	bus duct
BD	bus duct with plug in switch
BD	bus duct riser
	bus duct riser with plug in switch

LIGHTING SYMBOLS

A L–1 a	light fixture circuit switch designation lighting fixture symbol lighting fixture type
	recessed or surface mounted fluorescent fixture
	recessed or surface mounted fluorescent fixture on emerg. power
	industrial, undercounter, strip, or casework fluorescent fixture
	industrial or strip fluorescent fixture on emergency power
	incandescent or fluorescent downlight fixture
	incandescent or fluorescent downlight fixture on emergency power
	directional incandescent or fluorescent downlight fixture
	incandescent or fluorescent wall or surface mounted fixture
	incand. or fluor. wall or surface mounted fixture on emergency
	exit fixture – ceiling mounted – arrows as indicated
	exit fixture – wall or surface mounted – arrows as indicated
	emergency battery unit with adjustable head(s)
	emergency battery unit for remote emergency fixtures
	remote emergency fixture single head
	remote emergency fixtures dual head
	track system with incandescent downlight or flood lighting
	exterior lighting fixture – pole mounted
	exterior directional flood lighting fixture – pole or wall mounted
	exterior bollard lighting fixture
	exterior walkway lighting fixture
A 1 a	HID pendant mounted lighting fixture
PC	photo cell control switch
S 3 a	single pole switch (shown without subscript) [subscript indicates type of switch] 2 – double pole single throw switch 3 – three way switch 4 – four way switch D – single pole dimming switch Ds – door switch P – switch with pilot light K – key operated momentary contact switch V – variable speed control switch T – manual motor starter with overloads L – low voltage switch M – manual switch (motor rated) with lockout device, without overloads LM – low voltage master switch CO – single pole, center off momentary contact switch 3P – single pole, 3 pos., center off, mom. con. switch (FBO) TC – time control switch XP – explosion proof Class 1 Div. 2 MS – motion sensor, Automatic On/manual on, wall switch Ms – mullion switch
	one way ceiling mounted motion sensor.
	two way ceiling mounted motion sensor.
	360° ceiling mounted motion sensor.

CONDUIT AND WIRING SYMBOLS

LP–1–1	branch circuit conduit & wire homerun to panelboard circuit number of panelboard number of panelboard
OR	conduit & wire or item run at or above elevation shown
OR	conduit & wire or item run below elevation shown, behind obstruction, in slab, or below grade
	flexible conduit
	conduit stub–up with device as shown
	conduit bends toward observer (up)
	conduit bends away from observer (down)
	conduit floor to floor
	hash marks on conduit indicate number of conductors required ground conductor neutral conductor phase conductors
exposed underground or in slab	home run to MCC or panelboard ** indicates MCC or panelboard No. No. * refer to notes for conduit size and wire fill

COMMUNICATIONS SYSTEM SYMBOLS

P V	tele/data (double gang junction box, w/2 CAT 6 PLENUM RATED CABLE TO IT RM) (one tele jack and one ethernet jack) indicates floor or ceiling [special function] P – printer outlet # – qty of jacks
W V	telephone (double gang junction box, w/single gang plaster ring and w/pullstring to above ceiling) indicates floor or ceiling W – wall single gang (telephone only) PS – pay station single gang (telephone only) F – fireman's phone jack FX – fax outlet # – qty of jacks E – emergency H – house phone HP – handicapped phone
M V	data outlet (double gang junction box, w/single gang plaster ring and w/pullstring, see specifications) indicates floor or ceiling [special function] M – network cable outlet for monitoring WS – wireless system connection point # – qty of jacks
C	card reader (w/1 CAT 6 plenum rated cable to it rm)
I	intercom hands free station (wall mounted)
IMS W	intercom master station (desk mounted) W – indicates wall mounted DW – indicates desk model with wall bracket
I V	intercom system speaker
S V	trumpet speaker
S V S V	speaker [speaker function] NC – nurse call M – music only PA – public address V – voice paging only VM – voice paging and music
M	sound system microphone
VC	volume control
CS	channel selector
SA	sound system amplifier

FIRE ALARM SYSTEM SYMBOLS

FACP	fire alarm control panel
FAAP	fire alarm annunicator panel
RPS	remote power supply
H	fire alarm mini–horn
F	fire alarm manual pull station
FB	fire alarm signal chime
FH FC	fire alarm wall mounted audio/visual unit
FH	fire alarm siren
FH	fire alarm horn
FC	fire alarm strobe
FB	fire alarm bell
S F	fire evacuation speaker
C	fire alarm addressable relay [relay function] I – interface C – control M – monitor S – signal
	electric door holder provided with door hardwire mounted and wired by electrical contractor
D S	automatic detector [detector classification] D – duct mounted, smoke ionization F – thermal, fixed temperature FR – thermal, combination rate of rise plus fixed temperature PE – smoke refraction, photo electric R – thermal, rate of rise S – area smoke, ionization E – elevator recall, ionization CO – carbon monoxide SA – smoke refraction, photo electric / carbon monoxide with multi–station alarm
	fire extinguisher light
FS	alarm initiating contact [contact function] EP – electric pneumatic switch ETL – electric thermal link FS – flow switch "alarm" FA – first aid (hose system) "alarm" G – gas alarm panel GM – gas manifold R – refrigeration unit OS&Y – alarm check valve "trouble" TS – tamper switch "trouble" PS – pressure switch

SCHEMATIC/WIRING DIAGRAM LEGEND

	single pole single throw switch ✱ rating in amps
	fuse ✱ rating in amps
	fused disconnect ✱ rating in amps
	circuit breaker ✱ frame size/trip rating in amps
	thermal overload relay
	relay contact, normally closed
	relay contact, normally open
	thermal overload relay contact
	current transformer ✱ current ratio
	control circuit transformer ✱ voltage rating ✱✱ volt–amp rating
	pushbutton, normally closed momentary action
	pushbutton, normally open momentary action
	pushbutton, universal 2 circuit – momentary action
	selector switch 2 position
	pushbutton, maintained contact type
1 2 3	selector switch 3 position – center "off" x on line denotes circuit switch position, spring return from test position
	limit switch normally open
	limit switch normally closed
	limit switch normally closed, held open
	limit switch normally open, held closed
	flow switch normally closed
	flow switch normally open
	pressure switch normally closed
	pressure switch normally open
	temperature switch normally closed
	temperature switch normally open
	time delay contact, normally closed, instant open, timed closure on deenergization
	time delay contact, normally closed, instant open, timed closure on deenergization
	time delay contact, normally open, instant close, timed opening on deenergization
	time delay contact, normally closed, timed opening on energization, instant close
	time delay contact normally open, timed closure on energization, instant open
	level switch normally closed
	level switch normally open
	solenoid operated valve
	ground connection
	drawout connection
	electrical connection
	indicating pilot light ✱ A=amber, G=green R=red, W=white
	horn
	resistor ✱ rating in ohms/watts
	space heater ✱ rating in watts/volts
	✱ starter holding coil, relay time delay relay, or other operating coil. device number
	surge protection module

STANDARD MOUNTING HEIGHTS

9" below finish ceiling	wall–mounted clocks, program bells, (or as shown on architectural details)
6" above fire house cabinet	blue signal light
10'–0"	battery lighting units and remote wall mounted light heads (or 1'–0" below finished ceiling of top of unit).
8'–6"	pendant–hung industrial and strip lighting fixtures.
7'–8"+	television outlet and service receptacle – for shelf mounted T.V. in bedrooms.
centered above door or window opening	warning and signaling fixtures/signs.
6'–8" –to bottom of device	or 6" below finsihed ceiling whichever is lower. fire alarm signal devices and illuminated fire signals
6'–6"	top of flush and surface mounted electrical lighting or power panelboards and telephone cabinets.
6'–3"	top of back–mounted wall exit fixtures (not mounted above doors).
6'–0"	top of highest electrical safety disconnect switches, magnetic starters, contactors.
4'–6"	wall mounted intercom, telephone and pay stations. (maximum side reach height ADA)
4'–0"	wall mounted electrical device lighting switches, manual motor starters, thermostats, wall–mounted wiremold and g.f.i. receptacles in toilet rooms or for seperate sinks not in casework (maximum side reach height ADA)
3'–6"	fire alarm pull stations, ADA compliant device rough in
2'–0"	electrical receptacles within mechanical spaces, electrical and elevator rooms.
18"	electrical receptacles, telephone outlets, computer outlets, intercom outlet for desks
00"	finished floor

MOUNTING HEIGHT NOTES:

1. MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
3. INDICATION (+) NEXT TO A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DETAILS AND CASEWORK CONTRACTOR.

REVISIONS

8/15/13 ISSUE FOR BID

SEALS

FOURTH FLOOR RENOVATIONS
(WEST BUILDING RENOVATION)

COMMUNITY COLLEGE OF PHILADELPHIA

1700 SPRING GARDEN STREET, PHILADELPHIA, PA 19130

urban technology inc
Mechanical-Electrical-Plumbing
Fire protection
Consulting Engineers
P: 215-536-0808 F: 215-689-0936
231 Tollgate Road
Quakertown, PA 18951
www.utengineers.com

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

DRAWING TITLE
ELECTRICAL COVER SHEET

DATE 8/11/2013

SCALE AS NOTED

DRAWN BY

CHECKED BY

PROJECT NUMBER 911

DRAWING NUMBER CLE-000

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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 POSSIBLE, 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 CONDUITS 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 GROSSINGS 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.

REVISIONS

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DRAWING TITLE
ELECTRICAL SPECIFICATION SHEET

DATE
8/11/2013

SCALE
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PROJECT NUMBER
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DRAWING NUMBER
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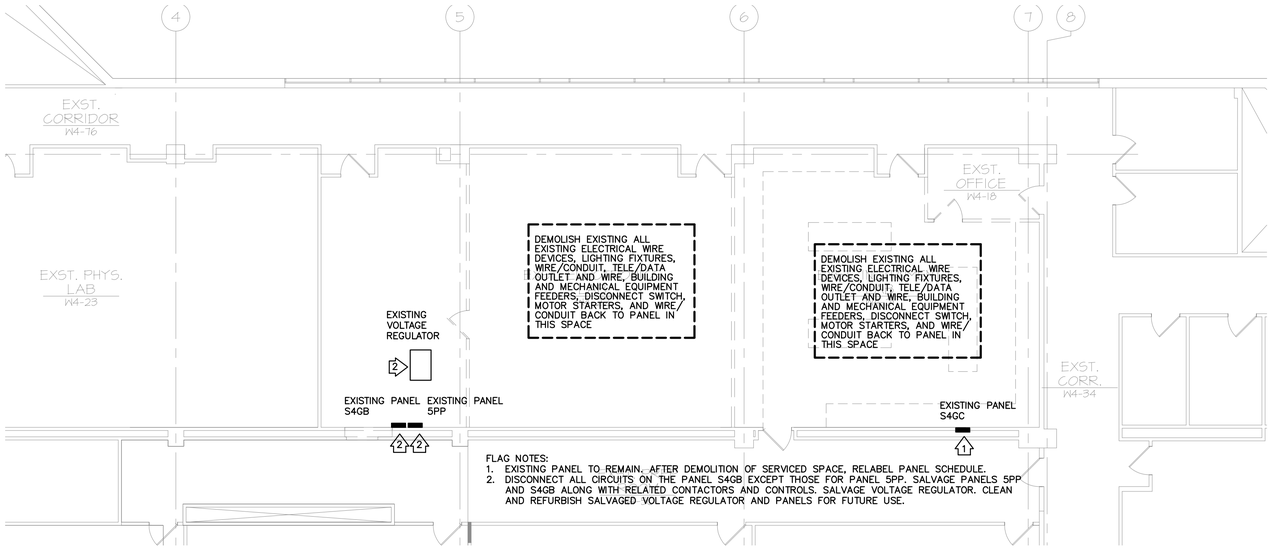


1 CHEMICAL LAB PHASE A ELECTRICAL DEMOLITION PLAN

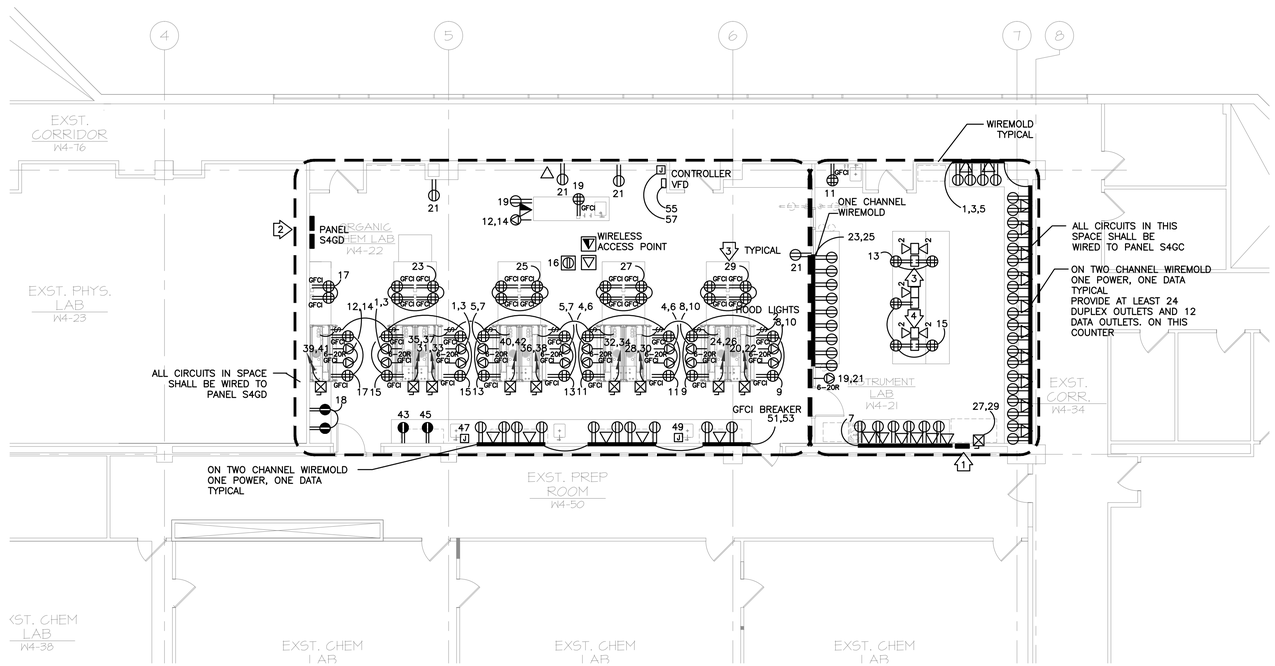
SCALE: 1/8"=1'-0"

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'

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SEALS

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Quakertown, PA 18951
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CHEMICAL LAB RENOVATION PHASE A ELECTRICAL POWER PLANS

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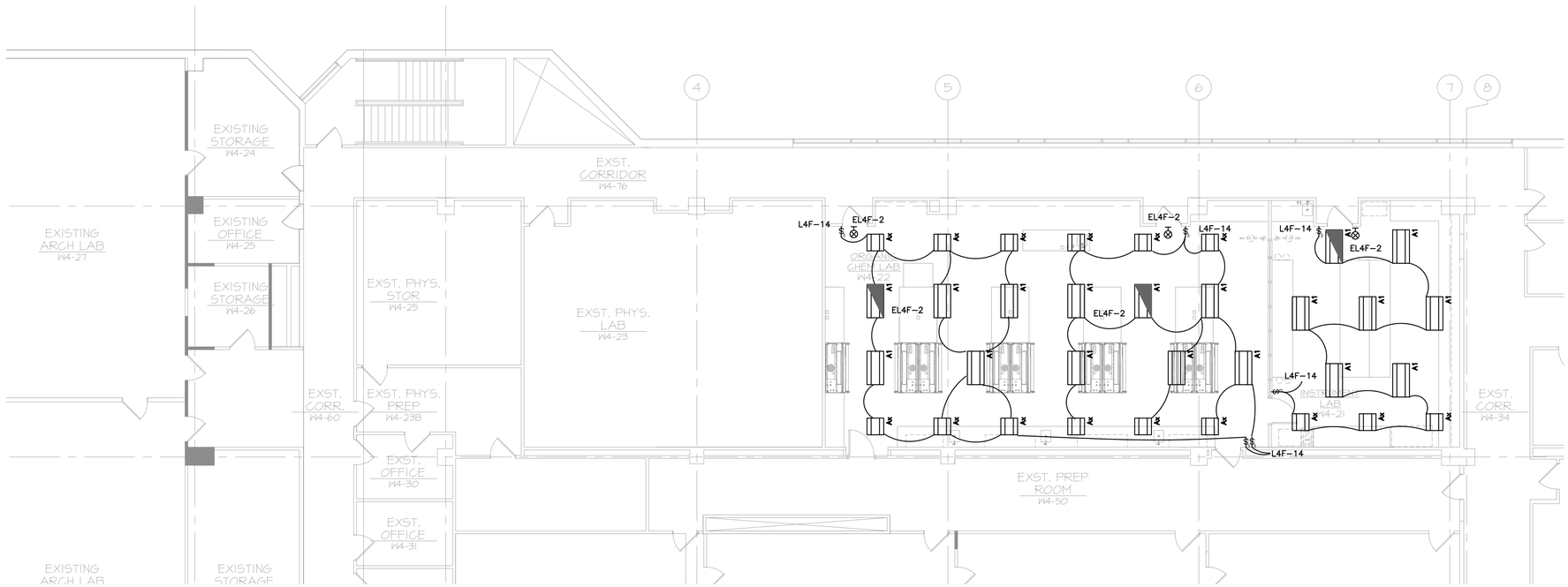

1 **CHEMICAL LAB PHASE A ELECTRICAL LIGHTING PLAN**

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

0 2' 4' 8'

REVISIONS

8/15/13 ISSUE FOR BID

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231 Tollgate Road
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CHEMICAL LAB RENOVATION PHASE A ELECTRICAL LIGHTING PLANS

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DEMOLISH EXISTING ALL EXISTING ELECTRICAL WIRE DEVICES, LIGHTING FIXTURES, WIRE/CONDUIT, TELE/DATA OUTLET AND WIRE, BUILDING AND MECHANICAL EQUIPMENT FEEDERS, DISCONNECT SWITCH, MOTOR STARTERS, AND WIRE/ CONDUIT BACK TO PANEL IN THIS SPACE

DEMOLISH EXISTING ALL EXISTING ELECTRICAL WIRE DEVICES, LIGHTING FIXTURES, WIRE/CONDUIT, TELE/DATA OUTLET AND WIRE, BUILDING AND MECHANICAL EQUIPMENT FEEDERS, DISCONNECT SWITCH, MOTOR STARTERS, AND WIRE/ CONDUIT BACK TO PANEL IN THIS SPACE

DEMOLISH EXISTING ALL EXISTING ELECTRICAL WIRE DEVICES, LIGHTING FIXTURES, WIRE/CONDUIT, TELE/DATA OUTLET AND WIRE, BUILDING AND MECHANICAL EQUIPMENT FEEDERS, DISCONNECT SWITCH, MOTOR STARTERS, AND WIRE/ CONDUIT BACK TO PANEL IN THIS SPACE

DEMOLISH EXISTING ALL EXISTING ELECTRICAL WIRE DEVICES, LIGHTING FIXTURES, WIRE/CONDUIT, TELE/DATA OUTLET AND WIRE, BUILDING AND MECHANICAL EQUIPMENT FEEDERS, DISCONNECT SWITCH, MOTOR STARTERS, AND WIRE/ CONDUIT BACK TO PANEL IN THIS SPACE

DEMOLISH EXISTING ALL EXISTING ELECTRICAL WIRE DEVICES, LIGHTING FIXTURES, WIRE/CONDUIT, TELE/DATA OUTLET AND WIRE, BUILDING AND MECHANICAL EQUIPMENT FEEDERS, DISCONNECT SWITCH, MOTOR STARTERS, AND WIRE/ CONDUIT BACK TO PANEL IN THIS ROOM

EXISTING PANEL S4GA

EXISTING PANEL S4GD

EXISTING PANEL S4GE

EXISTING PANEL S4GF

EXISTING PANEL S4GG

EXISTING PANEL P4G

EXISTING PANEL WDB4

EXISTING PANEL L4F

EXISTING PANEL EL4F&EP4F

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

1 CHEMICAL LAB PHASE B ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

0 2' 4' 8'

REVISIONS

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CHEMICAL LAB RENOVATION PHASE B ELECTRICAL DEMOLITION PLAN

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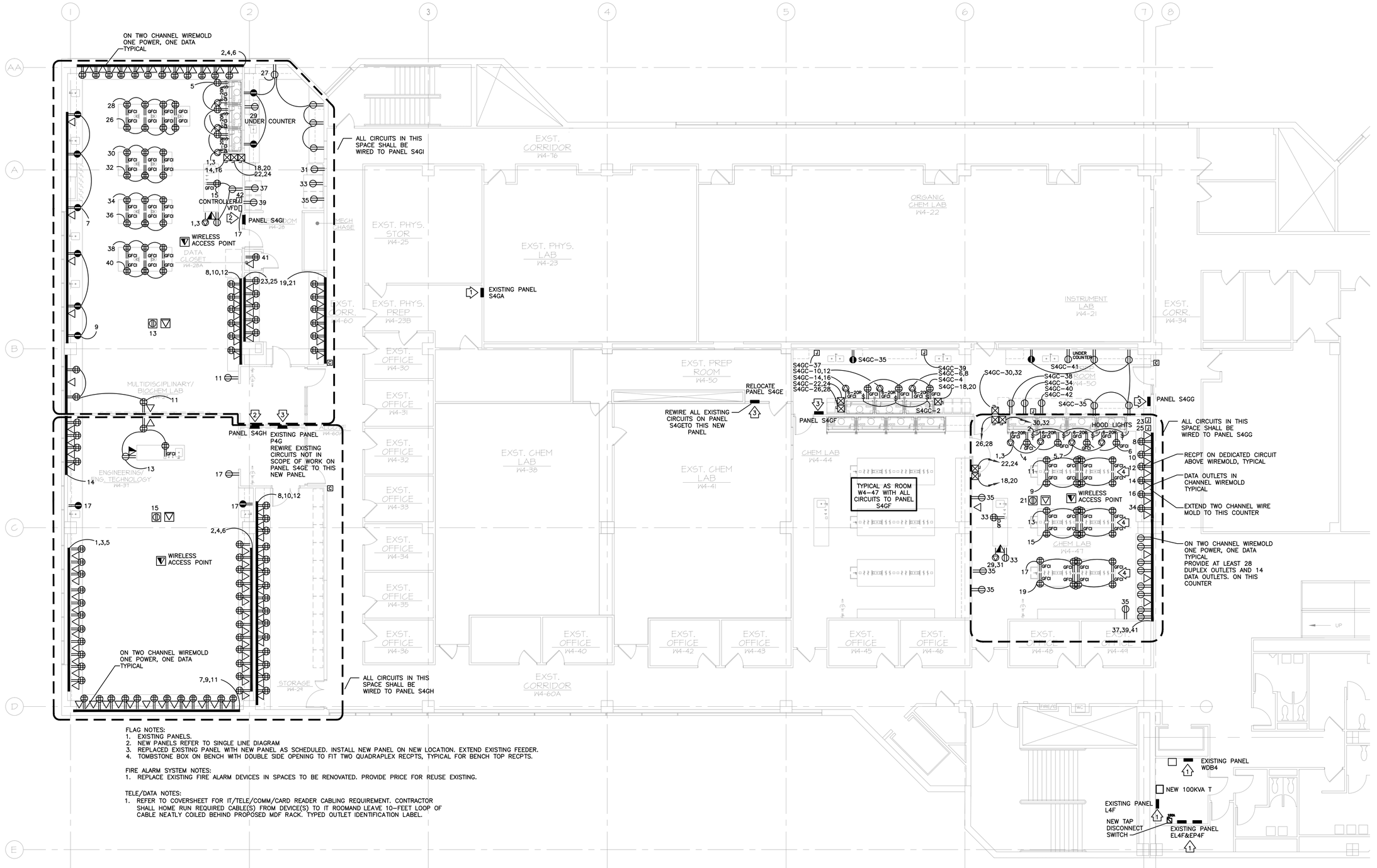

FLAG NOTES:
1. EXISTING PANELS.
2. NEW PANELS REFER TO SINGLE LINE DIAGRAM
3. REPLACED EXISTING PANEL WITH NEW PANEL AS SCHEDULED. INSTALL NEW PANEL ON NEW LOCATION. EXTEND EXISTING FEEDER.
4. TOMBSTONE BOX ON BENCH WITH DOUBLE SIDE OPENING TO FIT TWO QUADRAPLEX RECPTS, TYPICAL FOR BENCH TOP RECPTS.

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1 CHEMICAL LAB PHASE B ELECTRICAL POWER PLAN

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

0 2' 4' 8'

REVISIONS

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SEALS

FOURTH FLOOR RENOVATIONS

(WEST BUILDING RENOVATION)

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DRAWING NUMBER
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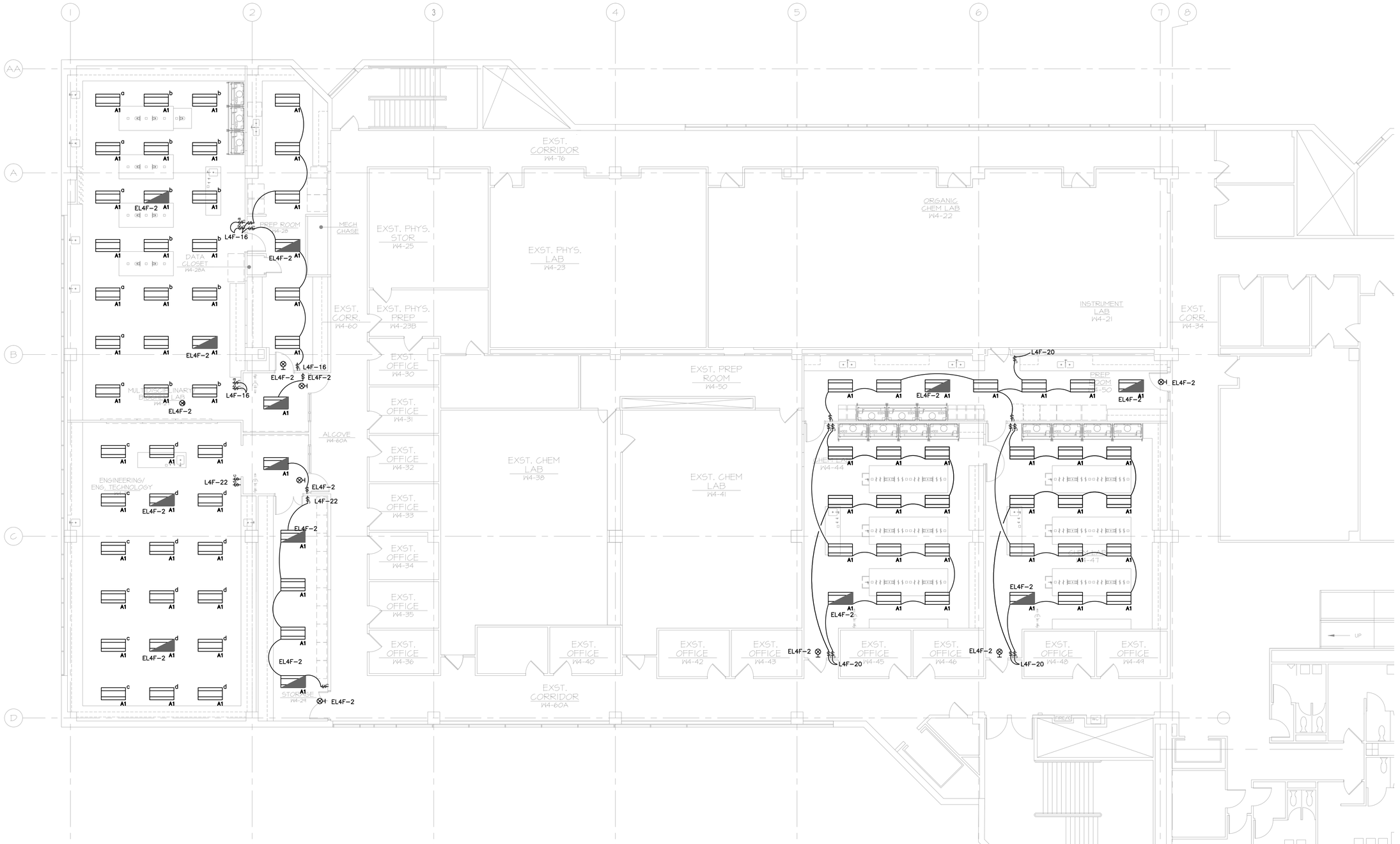

1 CHEMICAL LAB PHASE B ELECTRICAL LIGHTING PLAN

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

0 2' 4' 8'

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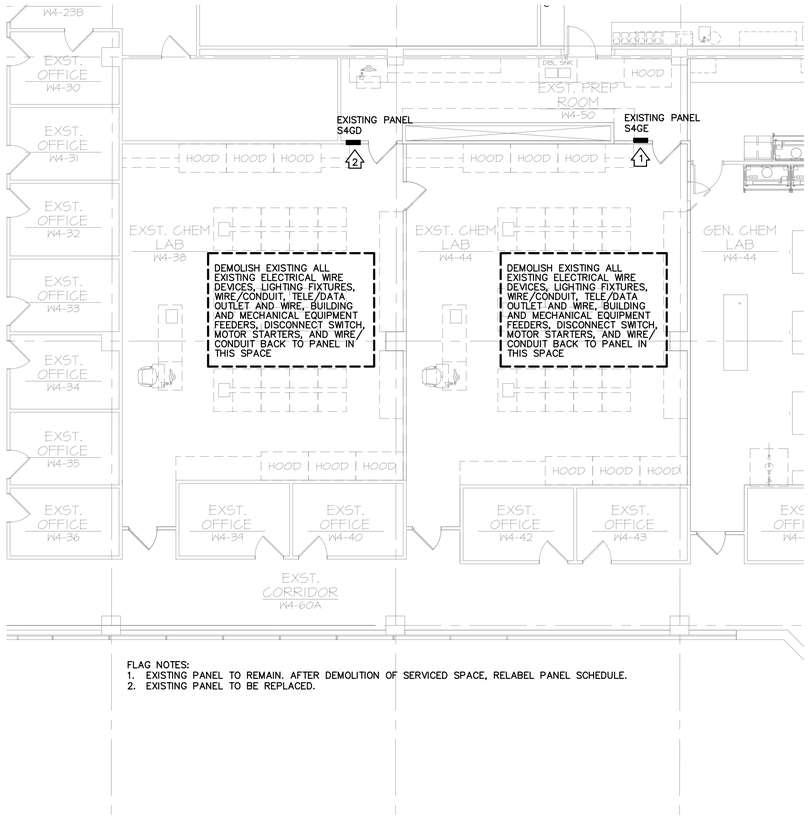
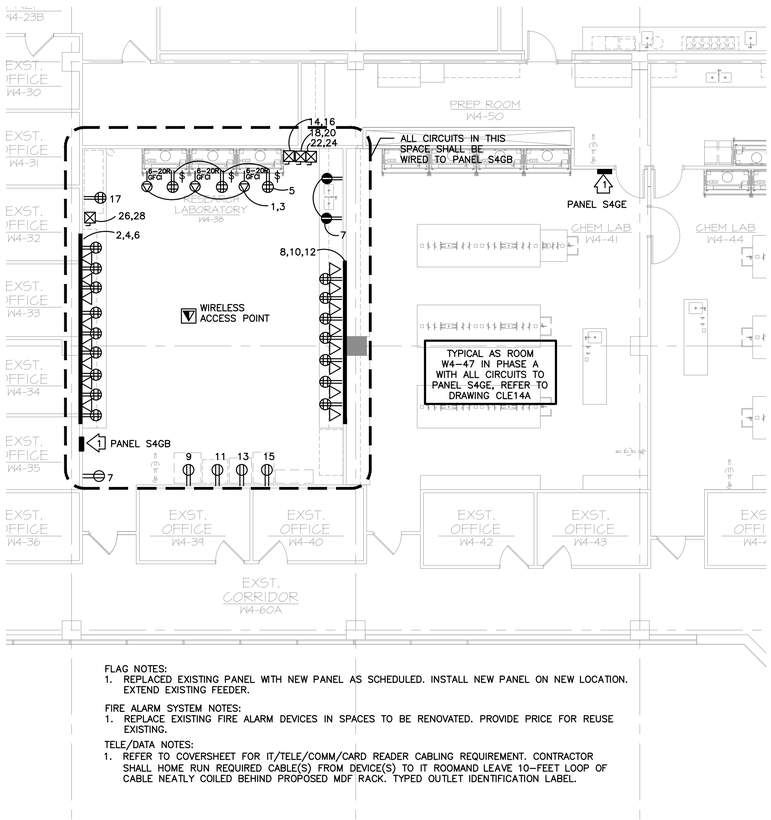


FLAG NOTES:
1. EXISTING PANEL TO REMAIN. AFTER DEMOLITION OF SERVICED SPACE, RELABEL PANEL SCHEDULE.
2. EXISTING PANEL TO BE REPLACED.

1 CHEMICAL LAB PHASE C ELECTRICAL DEOMLITION PLAN

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

0 2 4 8



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

TELE/DATA NOTES:
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2 CHEMICAL LAB PHASE C ELECTRICAL POWER PLAN

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

0 2 4 8

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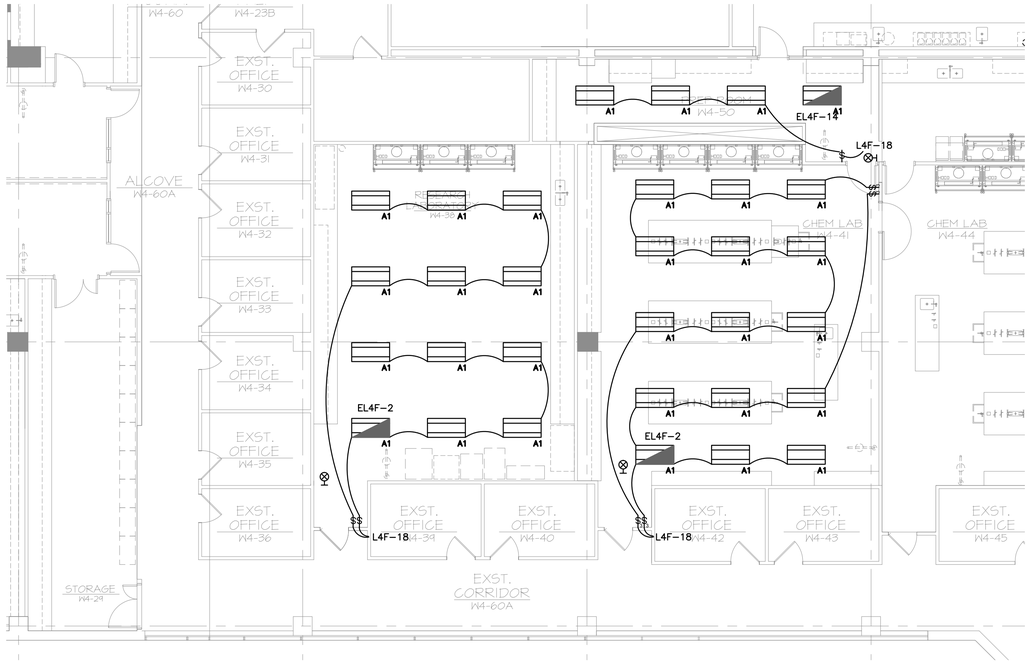

1 **CHEMICAL LAB PHASE C ELECTRICAL LIGHTING PLAN**
SCALE: 1/8"=1'-0"

0 2' 4' 8'

REVISIONS

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CHEMICAL LAB RENOVATION PHASE C ELECTRICAL LIGHTING PLANS

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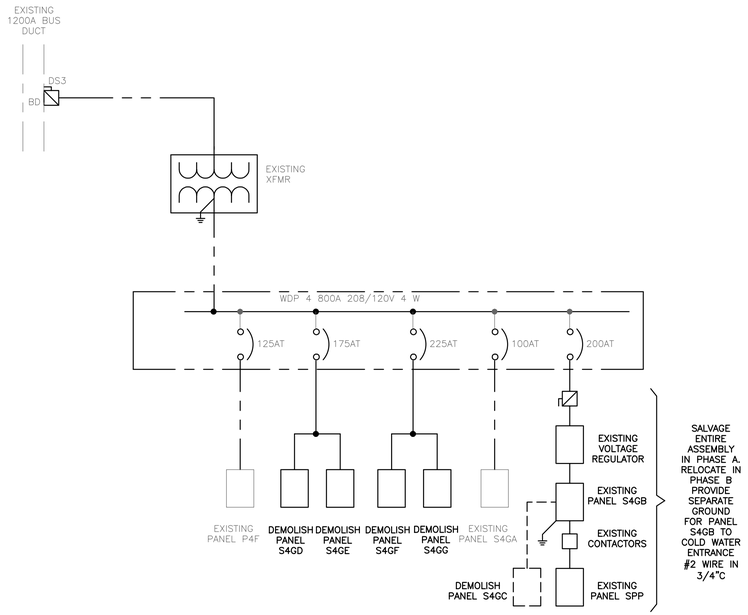
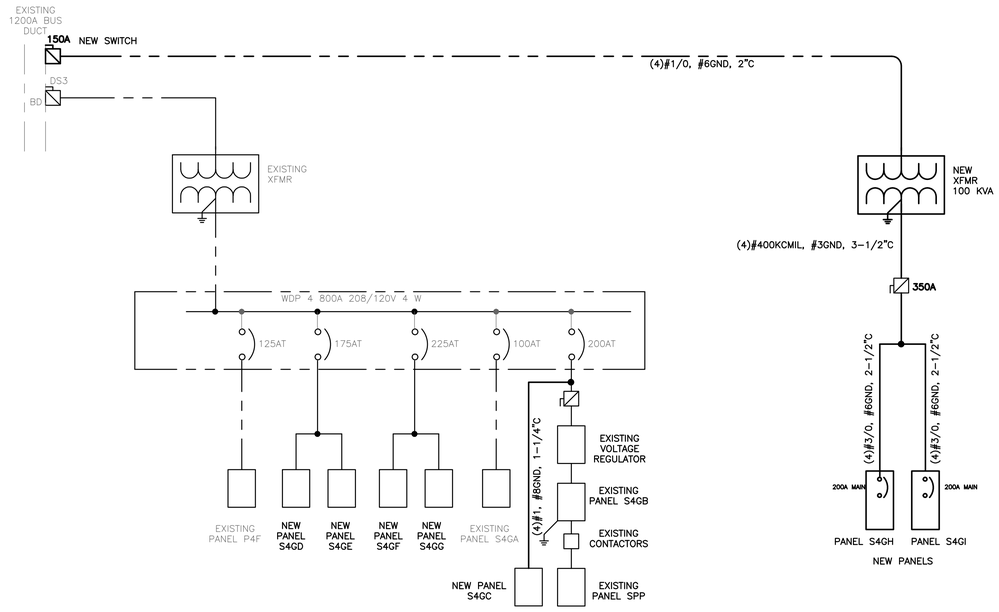


1 CLE301 **POWER SINGLE LINE DEMOLITION DIAGRAM**
SCALE: NONE



2 CLE301 **POWER SINGLE LINE DIAGRAM**
SCALE: NONE

LIGHTING FIXTURE SCHEDULE (OWNER TO APPROVE ALL FIXTURE SELECTIONS)

SYMBOL	VOLTAGE	LAMP DATA TYPE	LAMP DATA QTY	DESCRIPTION	PROPOSED MANUFACTURER / SERIES (OR APPROVED EQUAL)
A1	277	F28WT5 82 CRI MIN, 4100'K	3	2'X4' RECESSED DIRECT/INDIRECT FLUORESCENT WITH DUST COVER 10% THD PROGRAM STAT, ELECTRONIC BALLAST	COLUMBIA TRA24-3-28T5 MVOLT
Ax	277	14WT5 82 CRI MIN, 4100'K	3	2'X2' RECESSED DIRECT/INDIRECT FLUORESCENT WITH DUST COVER 10% THD PROGRAM STAT, ELECTRONIC BALLAST	COLUMBIA TRA22-3-14T5 MVOLT
X1	277	LEDS 5W		SINGLE FACE EDGELIT EXIT SIGN CHEVRONS AS INDICATED ON PLAN	SURE LITES/DUAL-LITE/CHLORIDE ELX61BRUSHED AL R

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DRAWING TITLE
ELECTRICAL SINGLE LINE DIAGRAM

DATE 8/11/2013

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DRAWING NUMBER CLE-301

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13-Aug-13 | Panel: S4GB

Auxiliary Gutter [ ] | [X] Neutral Bus | Voltage: 208 | Phase: 3 | Wire: 4 | Bus: 200

Double Lugged [ ] | [X] Ground Bus | (A) MCB/MLO: 200 A MCB | Mounting: Surface

[ ] | [ ] Isolated Ground Bus | ISC Rating: 10,000

Light	Recpt.	Equip.	Mech.	Description	Bkr	No.		No.	Bkr	Description	Light	Recpt.	Equip.	Mech.
	1,500			RECPT, FUME HOOD 208V	20/2	1	A	2	20/1	RECPT WIREMOLD WEST		1,400		
	1,500				20/1	3	B	4	20/1	RECPT WIREMOLD WEST		1,400		
	1,200			RECPT, FUME HOOD 120V	20/1	5	C	6	20/1	RECPT WIREMOLD WEST		1,400		
		800		RECPT, SPACE	20/1	7	A	8	20/1	RECPT WIREMOLD EAST		1,000		
		1,070		FREEZER	20/1	9	B	10	20/1	RECPT WIREMOLD EAST		1,000		
		1,070		FREEZER	20/1	11	C	12	20/1	RECPT WIREMOLD EAST		1,000		
		1,200		INCUBATOR	20/1	13	A	14	20/2	EXHAUST FAN 1			582	
		1,200		INCUBATOR	20/1	15	B	16					582	
		1,200		FLOW CHANNEL	20/1	17	C	18	20/2	EXHAUST FAN 2			582	
				SPARE	20/1	19	A	20					582	
				SPARE	20/1	21	B	22	20/2	EXHAUST FAN 3			582	
				SPARE	20/1	23	C	24					582	
				SPARE	20/1	25	A	26	20/2	EXHAUST FAN 4			582	
				SPARE	20/1	27	B	28					582	
				SPARE	20/1	29	C	30	20/1	SPARE				
				SPARE	20/1	31	A	32	20/1	SPARE				
				SPARE	20/1	33	B	34	20/1	SPARE				
				SPARE	20/1	35	C	36	20/1	SPARE				
				SPARE	20/1	37	A	38	20/1	SPARE				
				SPARE	20/1	39	B	40	20/1	SPARE				
				SPARE	20/1	41	C	42	20/1	SPARE				
0	4,200	5,540	0	Sub-Total										

Sub-Total:	0	7,200	4,659	0
Sub-total (from left side):	0	4,200	6,540	0
Totals Connected:	0	11,400	11,199	0
Totals Demand:	0	7,980	9,519	0
Total Load:	17,499	VA	49	Amps

Notes:

Feed by: MDP

13-Aug-13 | Panel: S4GC

Auxiliary Gutter [ ] | [X] Neutral Bus | Voltage: 208 | Phase: 3 | Wire: 4 | Bus: 100

Double Lugged [ ] | [X] Ground Bus | (A) MCB/MLO: 100 A MCB | Mounting: Surface

[ ] | [ ] Isolated Ground Bus | ISC Rating: 10,000

Light	Recpt.	Equip.	Mech.	Description	Bkr	No.		No.	Bkr	Description	Light	Recpt.	Equip.	Mech.
	1,600			RECPT, WIREMOLD 1	20/1	1	A	2	20/1	PREPARE HOOD LIGHTS	192			
	1,600			RECPT, WIREMOLD 1	20/1	3	B	4	20/1	PREPARE HOOD 110v RECPT		1,200		
	1,600			RECPT, WIREMOLD 1	20/1	5	C	6	20/2	PREPARE HOOD 208V RECPT 1		1,200		
	1,400			REPCT, WIREMOLD 2	20/1	7	A	8				1,200		
				SPACE	20/1	9	B	10	20/2	PREPARE HOOD 208V RECPT 2		1,200		
	400			RECPT, WET BENCH	20/1	11	C	12				1,200		
	800			RECPT, BENCH	20/1	13	A	14	20/2	PREPARE HOOD 208V RECPT 3		1,200		
	1,200			RECPT, BENCH	20/1	15	B	16				1,200		
				SPARE	20/1	17	C	18	20/2	Hood Exhaust Fan 1		672		
	900			REPCT 208V	20/2	19	A	20				672		
	900					21	B	22	20/2	Hood Exhaust Fan 2		672		
	1,000			RECPT WIREMOLD 3	20/1	23	C	24				672		
	1,000			RECPT WIREMOLD 3	20/1	25	A	26	20/2	Hood Exhaust Fan 3		672		
			672	EXHAUST FAN	20/2	27	B	28				672		
			672		20/1	29	C	30	20/2	Freezer Exhaust Fan		672		
				SPARE	20/1	31	A	32				672		
				SPARE	20/1	33	B	34	20/1	FREEZER HOOD			200	
	1,200			PREPARE ROOM RECPT	20/1	35	C	36	20/1	SPARE				
		1,200		Water Distillation Unit 2	20/1	37	A	38	20/1	ICE MACHINE			960	
		1,200		Water Distillation Unit 1	20/1	39	B	40	20/1	FREEZER			1,180	
		1,160		Dishw asher	20/1	41	C	42	20/1	Refrigerator			860	
0	13,600	3,560	1,344	Sub-Total										

Sub-Total:	192	13,776	3,200	0
Sub-total (from left side):	0	13,600	3,560	1,344
Totals Connected:	192	27,376	6,760	1,344
Totals Demand:	192	21,901	5,408	1,344
Total Load:	28,845	VA	80	Amps

Notes:

Feed by: MDP

13-Aug-13 | Panel: S4GD

Auxiliary Gutter [ ] | [X] Neutral Bus | Voltage: 208 | Phase: 3 | Wire: 4 | Bus: 150

Double Lugged [ ] | [X] Ground Bus | (A) MCB/MLO: 150 A MCB | Mounting: Surface

[ ] | [ ] Isolated Ground Bus | ISC Rating: 10,000

Light	Recpt.	Equip.	Mech.	Description	Bkr	No.		No.	Bkr	Description	Light	Recpt.	Equip.	Mech.
	1,500			RECPT, HOOD 208V	20/2	1	A	2	20/1	HOOD LIGHTS			576	
	1,500					3	B	4	20/2	RECPT, HOOD 208V		1,500		
	1,500			RECPT, HOOD 208V	20/2	5	C	6				1,500		
	1,500					7	A	8	20/2	RECPT, HOOD 208V		1,500		
	1,600			RECPT, HOOD	20/1	9	B	10				1,500		
	1,600			RECPT, HOOD	20/1	11	C	12	20/2	RECPT, HOOD 208V		1,500		
	1,600			RECPT, HOOD	20/1	13	A	14				1,500		
	1,600			RECPT, HOOD	20/1	15	B	16	20/1	PROJECTOR			1,400	
	1,600			RECPT, HOOD	20/1	17	C	18	20/1	RECEPT BENCH		400		
	600			RECPT, TEACHER TABLE	20/1	19	A	20	20/2	EXHAUST FAN 1			582	
	800			RECPT, WALL SMART BOARD	20/1	21	B	22					582	
	1,600			RECPT, BENCH	20/1	23	C	24	20/2	EXHAUST FAN 2			582	
	1,600			RECPT, BENCH	20/1	25	A	26					582	
	1,600			RECPT, BENCH	20/1	27	B	28	20/2	EXHAUST FAN 3			582	
	1,600			RECPT, BENCH	20/1	29	C	30					582	
		582		EXHAUST FAN 7	20/2	31	A	32	20/2	EXHAUST FAN 4			582	
		582				33	B	34					582	
		582		EXHAUST FAN 8	20/2	35	C	36	20/2	EXHAUST FAN 5			582	
		582				37	A	38					582	
		582		EXHAUST FAN 9	20/2	39	B	40	20/2	EXHAUST FAN 6			582	
		582				41	C	42					582	
0	21,800	3,494	0	Sub-Total										

Sub-Total:	0	9,400	8,965	0
Sub-total (from left side):	0	21,800	3,494	0
Totals Connected:	0	33,200	18,059	1,214
Totals Demand:	0	26,560	14,447	0
Total Load:	41,007	VA	114	Amps

Notes:

Feed by: MDP

13-Aug-13 | Panel: S4GD (RUNTHROUGH)

Auxiliary Gutter [ ] | [X] Neutral Bus | Voltage: 208 | Phase: 3 | Wire: 4 | Bus: 150

Double Lugged [ ] | [X] Ground Bus | (A) MCB/MLO: 150 A MCB | Mounting: Surface

[ ] | [ ] Isolated Ground Bus | ISC Rating: 10,000

Light	Recpt.	Equip.	Mech.	Description	Bkr	No.		No.	Bkr	Description	Light	Recpt.	Equip.	Mech.
		1,600		DRYING OVEN	20/1	43	A	44	20/1	SPARE				
		1,600		MICROWAVE OVEN	20/1	45	B	46	20/1	SPARE				
		1,200		Water Distillation Unit	20/1	47	C	48	20/1	SPARE				
		1,200		Water Distillation Unit	20/1	49	A	50	20/1	SPARE				
	1,000			WIREMOLD RECPT(GFI BREAKER)	20/1	51	B	52	20/1	SPARE				
	1,000			WIREMOLD RECPT (GFI BREAKER)	20/1	53	C	54	20/1	SPARE				
			864	VFD FAN-B	20/1	55	A	56	20/1	SPARE				
			350	DDC controller and other DDC pow er	20/1	57	B	58	20/1	SPARE				
				SPARE	20/1	59	C	60	20/1	SPARE				
				SPARE	20/1	61	A	62	20/1	SPARE				
				SPARE	20/1	63	B	64	20/1	SPARE				
				SPACE		65	C	66		SPACE				
				SPACE		67	A	68		SPACE				
				SPACE		69	B	70		SPACE				
				SPACE		71	C	72		SPACE				
				SPACE		73	A	74		SPACE				
				SPACE		75	B	76		SPACE				
				SPACE		77	C	78		SPACE				
				SPACE		79	A	80		SPACE				
				SPACE		81	B	82		SPACE				
				SPACE		83	C	84		SPACE				

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8/15/13 ISSUE FOR BID

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DRAWING TITLE

ELECTRICAL PANEL SCHEDULES

DATE 8/11/2013

SCALE AS NOTED

DRAWN BY

CHECKED BY

PROJECT NUMBER 911

DRAWING NUMBER CLE-401

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13-Aug-13 | Panel: | | |