DEMOlITION GENERAL NOTES

1. Demolition is not necessarily limited to what is shown on drawings. The intent is to depict the general scope of removal. The plan should be considered as a guide only and any drawings depict the general scope of demolition. As required, patch & repair all existing surfaces after equipment has been removed. Provide a smooth transition of surfaces to surrounding areas.

2. As required, any fireproofing, firestop, or fire-resistant or fire-rated materials, barriers, or enclosures should be supplemented in accordance with all current applicable codes. All firestopping is crossing off all existing before working in any portion of the project.

3. Do not close or obstruct facilities or interrupt utility services without written permission from the authorities having jurisdiction.

4. General contractor is required to maintain operation of building and life safety systems in occupied areas during construction. A clear & unobstructed path is to be maintained to egress exits during construction.

5. Refer to engineering documents for additional information.

DEMOlITION PLAN LEGEND

EXISTING PARTITION TO REMAIN
EXISTING PARTITION TO BE DEMOLISHED
EXISTING DOOR AND FRAME TO REMAIN
EXISTING DOOR AND FRAME TO BE DEMOLISHED

DEMOlITION KEY NOTES

1. REMOVE WINDOW AND INTERIOR SECURITY GRATE
2. REMOVE CONCRETE SLAB
3. REMOVE PORTION OF CASE PANEL TO ACCOMMODATE NEW CONFIGURATION. FIELD COORDINATE DIMENSIONS WITH NEW FLOOR PLAN
4. REMOVE DOWNSPOUT AND DOWNSPOUT BOOT TO REMAIN
5. REMOVE HOLLOW METAL DOOR, FRAME, AND HARDWARE
6. REMOVE WALL PACK LIGHT FIXTURE - SEE ELECTRICAL DWGS FOR ADDITIONAL INFORMATION

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.
1. REFER TO SPEC FOR DOOR & FRAME GAUGES, ANCHORS, AND REINFORCEMENT.
2. ALL DOOR GLAZING TO BE 1/4" SAFETY GLASS.
3. PAIRED DOOR TYPES ARE INDICATED BY NOTING "2" IN FRONT OF A DOOR TYPE, E.G. 2F IS A PAIRED TYPE F (FLUSH) DOOR.
4. SCHEDULE DESIGNATIONS AS FOLLOWS:
   GL - GLASS
   AL - ALUMINUM
   RWD - RESIDENTIAL WOOD
   PRE - PREFINISHED
   PTD - PAINTED, OPAQUE FINISH
   STN - STAINED, TRANSPARENT FINISH
   FOR OTHER DESIGNATIONS, REFER TO ABBREVIATIONS LIST.

DOORS AND FRAMES NOTES:
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PROJECT NO.
DRAWING NO.
DRAWN BY
CHECKED BY
DATE
SCALE

PROJECT TITLE
DRAWING TITLE

PHILADELPHIA
PENNSYLVANIA
11TH FLOOR, ONE PARKWAY BUILDING
1515 ARCH STREET
DEPARTMENT OF PUBLIC PROPERTY
CITY OF PHILADELPHIA

REVISIONS
ISSUE
DATE
REVISIONS

PROJECT COORDINATOR
SEALS
71-19-4365-01
MARC ORGOVAN
AS NOTED
ARTFULLY REPRODUCED
BY MADMAN RADER
ARTFULLY REPRODUCED
BY MADMAN RADER

Small Primate Holding
Mechanical Upgrades

KS ENGINEERS, P.C.
494 Broad Street, 4th Floor, Newark, N.J. 07102

Surveyors
Construction Managers
Phone: (973)623-2999, Fax: (973)623-2988

H.D./V.S.
S.C.

Small Primate Holding Mechanical Upgrades
FOUNDATION AND ROOF PLAN
71-19-4365-01
AS NOTED
REV
S2.1
NOTE:
ALL DIMENSIONS AND CONDITIONS SHALL BE
VERIFIED BY THE CONTRACTOR AT THE SITE
BEFORE PROCEEDING WITH THE WORK.
MECHANICAL SMALL PRIMATE - DEMOLITION EQUIPMENT

MECHANICAL SMALL PRIMATE - DEMOLITION CONTROLS

DEMOLE ALL HANGERS/ISOLATORS AND DUCT MOUNTED DAMPER. MAINTAIN SLEEVE AND LINTEL.

NOTE:

1/4" = 1'-0"

DEMOLE ALL NON-PERMANENT AIR AND water COILS WHERE OTHERS REMAIN IN SERVICE, OR SERVE, AREAS BEYOND THE IMMEDIATE WORK (POINTS OF CONNECTION OF ADDITIONS, ALL SERVICES, PIPING, DUCT, VENTS, AND البطاطس ENCLOSURES, POWER, ALL ELECTRICAL, THE REAR ANIMAL BOILER, THE NEW ATC SYSTEM BACK TO THEIR POINTS OF SOURCE.

NOTE:

15.

DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.

NOTE:

14.

CONDUIT, CONTROL OR SWITCH DEVICES, OR OTHER HVAC, PLUMBING POINTS OF CONNECTION OF ADDITIONS, ALL SERVICES, PIPING, DUCT, VENTS, AND batts ENCLOSURES, POWER, ALL ELECTRICAL, THE REAR ANIMAL BOILER, THE NEW ATC SYSTEM BACK TO THEIR POINTS OF SOURCE.

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NOTE:

14.
1. PROVIDE ACCESS PANEL TO SERVICE COIL.

2. PROVIDE ANTI-BACTERIAL COATED DIVERSITECT 6-M2748 CONDENSATE DRAIN PAN.

3. PROVIDE AND INSTALL A 4" HIGH ABOVE GRADE CONCRETE PAD UNDER CONDENSING UNIT. ANCHOR UNIT TO BE 'SINGLE POINT' ELECTRICAL CONNECTION.

4. PROVIDE RAWAL APR VALVES ON EACH CIRCUIT.

5. PROVIDE AND INSTALL WITH SURFACE MOUNTING FRAME CONTROL VALVES, CIRCUIT SETTER AND FURTHER ISOLATION REQUIREMENTS ON THE SUPPLY FAN (SEE NOTES 2&3).

NOTES:

1. PROVIDE AND INSTALL NEW ATC DAMPER AT THIS POINT. PROVIDE AND INSTALL NEW ATC DAMPER B/B/C AT THIS LOCATION.

2. PROVIDE AND INSTALL WITH SCR CONTROLLER. UNIT TO BE PROVIDED WITH A DIGITAL SCROLL WITH RAWAL APR VALVE ON EACH COMPRESSOR.

3. PROVIDE AND INSTALL NEW ATC DAMPER B/B/C AT THIS LOCATION.

4. PROVIDE AND INSTALL A DRAIN PAN IN DUCT TO CAPTURE CONDENSATE FOR EACH LINE. INSULATE AND SEAL REQUIREMENTS FOR ALL EXISTING DUCTWORK.
MECHANICAL BASE CONTROL LAYOUT

MECHANICAL AHU-1 CONTROL LAYOUT (REFER TO SPECIFICATION SECTION 230993)

MECHANICAL CONTROL DIAGRAM

NOT TO SCALE

MECHANICAL RISER REQUIREMENTS

NOT TO SCALE

MECHANICAL AHU-1 CONTROL LAYOUT (REFER TO SPECIFICATION SECTION 230993)

Small Primate Holding
Mechanical Upgrades

PHILADELPHIA
AMERICA'S FIRST ZOO

Wick Fisher White
Federal Reserve Bank Building
100 N. Independence Mall West
Suite 5 SE
Philadelphia, PA 19106
Tel: 215-927-0200

CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY

MECHANICAL CONTROLS

AD

06/07/19

03/18/19

04/22/19

11-19-4359-01

AS NOTED

M4.0
PROVIDE AND INSTALL 3" CAST IRON SUBSOIL STORM PIPING.
GC TO PROVIDE NEW DOWN LEADER.

NOT FOR CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS AND CONDITIONS SHALL BE AS NOTED.

1/4" = 1'-0" (NOT TO SCALE)

STORM CONNECTION SMALL PRIMATE FRONT OF BUILDING - NEW WORK

STORM RISER DIAGRAM WEST SIDE

STORM RISER DIAGRAM EAST SIDE

STORM CONNECTION SMALL PRIMATE - NEW WORK PLAN VIEW
NOTE: SMALL PRIMATE HOLDING LOCATION

FIRE PROTECTION SMALL PRIMATE - NEW WORK VESTIBULE

FIRE PROTECTION SMALL PRIMATE - NEW WORK MECHANICAL SPACE
NOTE:

GSP

CHECKED BY

06/07/19

DRAWING NO.

PROJECT NO.

WIREMOLD RACEWAY 4000 WITH DIVIDER, CONTACT, MAGNETIC.

AREA OF REFUGE STATION - RESCUE ASSISTANCE CALL STATION

AR

MECHANICAL UPGRADES

BREAKER SIZE AS REQUIRED.

FURNISHED BY PLUMBING CONTRACTOR.

1

MOTOR STARTER, COMBINATION TYPE WITH DISCONNECT MEANS.

VOLTAGE, SIZE, NUMBER OF

FIRE PROTECTION WATER FLOW RELEASE CONTROL PANEL, SMALL PRIMATE HOLDING

SAFETY SWITCH, FUSED, HEAVY DUTY.

FURNISHED BY PLUMBING CONTRACTOR.

SAFETY SWITCH, NON-FUSED, HEAVY DUTY.

PHILADELPHIA

P1

PASSIVE INFRARED LOW TEMPERATURE OCCUPANCY SENSOR & ULTRASONIC OCCUPANCY SENSOR & POWER PACK ASSEMBLY.

MOTOR OUTLET WITH JACK DEVICE IN PLATE, MOUNTED IN PULL STATIONS

SAME AS ABOVE EXCEPT MOUNT 48" TO TOP OF BOX.

GFI

INTERCOM STATION MOUNTED, 16" A.F.F. WIRED TO THE TELEPHONE SYSTEM

SAME AS ABOVE EXCEPT WALL MOUNTED 16" A.F.F.

SAME AS ABOVE EXCEPT MTD. IN RECESSED FLOOR BOX.

SAME AS ABOVE EXCEPT MOUNT 48" TO TOP OF BOX.

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**ELECTRICAL DEMOLITION NOTES:**

1. **MATERIALS REPORTED:** All electrical equipment and fixtures are indicated on the drawings.

2. **ELECTRICAL EQUIPMENT AND MATERIALS:** All materials and equipment removed or relocated shall be removed according to the drawings. All uncovered cables or conduits shall be covered with suitable materials.

3. **WIRING:** All wiring shall be removed to the nearest termination device. All wiring shall be terminated according to the drawings.

4. **ELECTRICAL PANELS:** All panels shall be removed to the nearest terminal box. All panel boards shall be removed to the nearest terminal box. All panel boards shall be removed to the nearest terminal box.

5. **ELECTRICAL MACHINERY:** All machinery shall be removed to the nearest terminal box. All machinery shall be removed to the nearest terminal box. All machinery shall be removed to the nearest terminal box.

6. **ELECTRICAL DRAWINGS:** All drawings shall be reviewed by the architect before work begins. All drawings shall be reviewed by the architect before work begins. All drawings shall be reviewed by the architect before work begins.

7. **REVISE ALL NOTATION:** All notation shall be revised according to the drawings. All notation shall be revised according to the drawings. All notation shall be revised according to the drawings.

8. **ELECTRICAL CONTRACTOR:** The electrical contractor shall verify all removals with the architect.

9. **ARCHITECT & ZOO:** The architect and zoo shall be notified of all removals.

10. **PROTECTION:** Provide adequate protection where required to prevent damage during the demolition process.

11. **WASTE DISPOSAL:** All waste shall be disposed of in a legal manner.

12. **SAFETY:** All work shall be performed in accordance with accepted trade practices.

13. **INSPECTION:** All work shall be subject to inspection by the owner's representative.

**DEMOELION GENERAL NOTES:**

1. **REMOVE EXISTING MECHANICAL EQUIPMENT:** All mechanical equipment shall be removed according to the drawings. All mechanical equipment shall be removed according to the drawings. All mechanical equipment shall be removed according to the drawings.

2. **NEW MECHANICAL EQUIPMENT:** All new mechanical equipment shall be installed according to the drawings. All new mechanical equipment shall be installed according to the drawings. All new mechanical equipment shall be installed according to the drawings.

3. **MECHANICAL MACHINERY:** All machinery shall be installed according to the drawings. All machinery shall be installed according to the drawings. All machinery shall be installed according to the drawings.

4. **MECHANICAL DRAWINGS:** All drawings shall be reviewed by the mechanical engineer before work begins. All drawings shall be reviewed by the mechanical engineer before work begins. All drawings shall be reviewed by the mechanical engineer before work begins.

5. **REVISIONS:** All revisions shall be reviewed and approved by the owner's representative.

6. **WASTE DISPOSAL:** All waste shall be disposed of in a legal manner.

7. **SAFETY:** All work shall be performed in accordance with accepted trade practices.

8. **INSPECTION:** All work shall be subject to inspection by the owner's representative.

9. **COMPLIANCE:** All work shall comply with governing regulations pertaining to the project.

10. **LIMIT DUST AND DIRT:** Limit dust and dirt rising and scattering to the lowest practical level. Comply with governing regulations pertaining to the project.

11. **PROTECTION:** Provide adequate protection where required to prevent damage during the demolition process.

12. **WASTE DISPOSAL:** All waste shall be disposed of in a legal manner.

13. **SAFETY:** All work shall be performed in accordance with accepted trade practices.

14. **INSPECTION:** All work shall be subject to inspection by the owner's representative.

**ELECTRICAL DEMOLITION SMALL PRIMATE PLAN - DEMOLITION**

**ELECTRICAL SMALL PRIMATE PLAN - DEMOLITION**

**DEMOELION GENERAL NOTES:**

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**ELECTRICAL DEMOLITION SMALL PRIMATE**

**ELECTRICAL DEMOLITION SMALL PRIMATE**

**DEMOELION GENERAL NOTES:**

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12. **WASTE DISPOSAL:** All waste shall be disposed of in a legal manner.

13. **SAFETY:** All work shall be performed in accordance with accepted trade practices.

14. **INSPECTION:** All work shall be subject to inspection by the owner's representative.
DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE
NOT FOR CONSTRUCTION

NOTE:
GSP
DP/GP
DRAWN BY
AS NOTED
SCALE
LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
DATE
THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL
MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN
OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A
DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE
8.
DRAWING NO.
PROJECT NO.
CONTRACTOR SHALL VERIFY ALL REMOVALS WITH ARCHITECT & ZOO
7.
ITEMS OR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR DIRECTIONS.
2.
VERIFY ALL CONDITIONS AT JOB SITE.
13.
WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE
WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE
3.
MAINTENANCE AND ENGINEERING DEPARTMENT. EXTREME CARE SHALL BE TAKEN TO
COORDINATE ALL WORK WITH OTHER TRADES.
6.
ALL ELECTRICAL DEVICES AND WIRING/CONDUIT ASSOCIATED WITH DEMOLISHED
ALL ELECTRICAL DEVICES AND WIRING/CONDUIT ASSOCIATED WITH DEMOLISHED
1.
PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND
REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM
REMOVED.
8.
EXTERNALLY PENETRATED, AND WHERE EXISTING END WALLS OF THE BUILDING ARE
10.
REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE
REMOVED.
8.
REMOVED.
8.
E.C. SHALL VERIFY THE PANEL DESIGNATION AND CIRCUIT NUMBER FOR EACH DEVICE TO BE
12.
INSERVICE, AREAS BEYOND THE IMMEDIATE WORK) CONTRACTOR
REMOVED.
8.
REMOVED.
8.
EXCEPT WHEN SCHEDULED WITH THE OWNER.
6.
MAINTAIN EXISTING UTILITIES INDICATED OR REQUIRED TO REMAIN,
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PINNSYLVANIA
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DOUBLE INSULATION (D.O.I.) SHALL BE REMOVED TO BE REMOVED TO BE
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SHEET NOTES:

1. REPLACE DISTRIBUTION CONTROL WITH THE EATON IQ DP-4000 ELECTRICAL DISTRIBUTION SYSTEM MONITORING DEVICE. PROVIDE ALL REQUIRED ACCESSORIES, WIRING, TERMINATIONS, PROGRAMMING AND CALIBRATION. PROVIDE AS A SEPARATE, ADD-ON ALTERNATE BID ITEM.

2. THE EXISTING 750 KVA TRANSFORMER SHALL BE PROVIDED WITH NEW EATON TC-100 TRANSFORMER TEMPERATURE CONTROLLER, MONITOR(S), COOLING FANS, THERMOCOUPLES, ALARMS, ALL WIRING AND ETC TO ASSURE A COMPLETE AND FUNCTIONING SYSTEM. PROVIDE AS A SEPARATE, ADD-ON ALTERNATE BID ITEM. THE AFOREMENTIONED INSTALLATION OF THE TRANSFORMER'S COOLING FANS AND CONTROLLER(S) SHALL BE COMPLETED PRIOR TO COMMENCING OF ANY WORK ASSOCIATED WITH SMALL PRIMATE HOLDING AND/OR ANIMAL CLINIC PROJECTS. THIS WORK SHALL BE DONE IN (1) FOUR-HOUR SHUTDOWN. IF LONGER SHUTDOWN IS REQUIRED, IT HAS TO BE APPROVED BY ZOO AND DPP, BEFORE COMMENCING ANY WORK.

3. ALL WORK SHAL BE COORDINATED AND APPROVED BY THE ZOO AND DPP. PROVIDE WRITTEN NOTICE TO PROCEED PRIOR TO COMMENCING ANY WORK THAT REQUIRE SHUTTING DOWN ELECTRICAL SERVICE AND/OR DE-ENERGIZING OF ANY FACILITY'S EQUIPMENT AND/OR SYSTEMS. ALL WORK AT THE SWITCHBOARD SHALL BE DESIGNATED AS OFF-HOURS WORK. SEE NOTE #2

4. PANELBOARD "EPP" EATON POW-R-LINE C SWITCHBOARD SECTION (SUPPLY - 2500A, SECTION - 3000A)
**BASIS OF DESIGN - WATT STOPPER DLM SYSTEM.**

4. **ELECTRICAL DETAILS**
   
   **NOT TO SCALE**

   **DRAWING TITLE**
   
   **PROJECT TITLE**
   
   **DRAWING NO.**

   **PROJECT NO.**

   **AND DIAGRAMS**

   **SEQUENCE OF OPERATION**

   **Mechanical Upgrades**

   **Small Primate Holding**

   **NOT TO SCALE**

   **EMERGENCY BALLAST DETAIL**

   **Wattstopper**

   **LMDC-100**

   **Dual Tech Sensor**

   **Room Controller**

   **Lighting Auto On To 50% When Occupancy Detected.**

   **NOT TO SCALE**

   **TYPICAL DETAIL FOR CABLE OR CONDUIT PASSING THROUGH FLOOR**

   **NOT TO SCALE**

   **TYPICAL STANDARD MOUNTING HEIGHTS DETAIL**

   **NOT TO SCALE**

   **EMERGENCY BALLAST DETAIL**

   **NOT TO SCALE**

   **OCCUPANCY SENSOR CONTROL DETAIL**

   **NOT TO SCALE**

   **CONDUIT ROOF PENETRATION DETAIL**

   **NOT TO SCALE**