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POST-INSTALLED ANCHORS

1. Post-installed anchors shall only be used if there is no other specified method to install the components.
2. Installation frames, through a contractor with the appropriate training and certification, shall be used to install post-installed anchors. Each anchor shall be installed in accordance with the manufacturer’s recommendations.
3. Post-installed anchors shall be installed per the manufacturer’s recommendations, including any necessary anchoring or fastening methods.
4. Post-installed anchors shall be used for all loads specified in the plans, except for loads specified for shear walls and diaphragms.

SEISMIC DESIGN DATA

SECTION 1705.2 / TABLE 1705.2.2

Shall have been tested and qualified for use in accordance with the manufacturer’s recommendations.
1.25
0.18
0.00
1.00
0.00
13.4
DELTA

WIND DESIGN DATA

1. Full design wind loads are based on the basic wind speed of 15.4 PSF. The wind Loads for the structure shall be calculated in accordance with the latest version of the latest edition of the American Society of Civil Engineers (ASCE) 7-10, "Minimum Design Loads for Buildings and Other Structures.
2. Distribution of the wind loads shall be based on the wind pressure coefficients determined in accordance with the latest version of the ASCE 7-10.
3. Structural steel shall be designed in accordance with the AISI Specification SP-10.
4. Masonry shall be designed in accordance with the latest version of the latest edition of the ACI 318.

EXISTING STRUCTURE AND CONDITIONS

1. Contracting is hereby warned of questions regarding existing structural components and shall be responsible for verifying the adequacy of the existing structure.
2. Concrete and masonry shall be designed in accordance with the latest version of the ACI 318.
3. Structural steel shall be designed in accordance with the latest version of the AISI Specification SP-10.

DESIGN LOADS

1. Design loads shall be based on the latest version of the American Society of Civil Engineers (ASCE) 7-10, "Minimum Design Loads for Buildings and Other Structures."
A. INSPECTION OF FASTENER ASSEMBLIES

1. Periodic fastener assemblies, of suitable condition, placed in all holes and washers (if applicable).

2. Weld cleanliness - periodic welds cleaned.

B. Welding consumables - periodic control and handling of welding consumables:

1. Fillet welds - periodic fit-up of fillet welds.

C. Reinforcing steel - periodic fastener rotation:

1. Periodic no welding over cracked tack welds.

D. Proper bolting - periodic proper bolting procedure selected for joint detail.

E. Repairs - continuous repair activities.

F. Access holes - periodic configuration and finish of access holes.

G. Proper storage - periodic proper storage provided for bolts, nuts, washers and other fastener components.

H. Workmanship and the fabricator’s ability to conform to the construction control procedures that provide a basis for inspection control of the structure, such that the fabricator maintains detailed fabrication and quality control records of all work performed.

I. Certifications - required inspection frequency:

1. Periodic pre-installation verification testing by installation personnel observed and documented.

2. Periodic verifying permanent individual truss member restraint/bracing are installed per IBC Table 1705.2.2, ASTM AISC: N5.

3. Periodic field magnetic particle or penetrant testing of thermally cut surfaces of welds under tension.

4. Periodic 4. Radio graphic or ultrasonic testing of welded joints subject to fatigue when risk category III or IV.

5. Periodic 3. Field magnetic particle or penetrant testing of thermally cut surfaces of welds under tension.

6. Periodic 5. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

7. Periodic 2. Field magnetic particle or penetrant testing of thermally cut surfaces of welds under tension.

8. Periodic 1. Field magnetic particle or penetrant testing of thermally cut surfaces of welds under tension.

9. Periodic 6. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

10. Periodic 7. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

11. Periodic 8. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

12. Periodic 9. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

13. Periodic 10. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

14. Periodic 11. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.

15. Periodic 12. Radiographic or ultrasonic testing of all welds subject to fatigue when risk category III or IV.
LEVEL 1 DEMOLITION PLAN

AREA A

AREA B

AREA C

DRAWINGS & ACTUAL CONDITIONS / DIMENSIONS

KEY PLAN

LEVEL 1 DEMOLITION PLAN

NOTE: All dimensions are approximate and in inches. All openings, doors, and windows are approximate.

1. REMOVE EXISTING WINDOWS, DOORS, AND FRAMES.
2. REMOVE EXISTING EXPOSED CONDUIT AND LIGHT FIXTURES FOR DEMOLITION.
3. REMOVE EXISTING STOREFRONT FRAMING AND ENTRANCE SEALANT JOINT SUPPORT STRUCTURE TO REMAIN.
4. REMOVE DOOR AND FRAME.
5. REMOVE DOOR AND FRAME.
6. REMOVE EXISTING WINDOW AND FRAME.
7. REMOVE EXISTING STOREFRONT FRAME.

SHADING NOTE

KEY PLAN

LEVEL 1 DEMOLITION PLAN

NOTE: All dimensions are approximate and in inches. All openings, doors, and windows are approximate.

1. REMOVE EXISTING WINDOWS, DOORS, AND FRAMES.
2. REMOVE EXISTING EXPOSED CONDUIT AND LIGHT FIXTURES FOR DEMOLITION.
3. REMOVE EXISTING STOREFRONT FRAMING AND ENTRANCE SEALANT JOINT SUPPORT STRUCTURE TO REMAIN.
4. REMOVE DOOR AND FRAME.
5. REMOVE DOOR AND FRAME.
6. REMOVE EXISTING WINDOW AND FRAME.
7. REMOVE EXISTING STOREFRONT FRAME.
LEVEL 1 - AREA A DEMO PLAN

GENERAL DEMOLITION PLAN NOTES

1. All dimensions are shown in imperial units. Verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

2. Permits and/or Bids are required to be obtained by the Contractor. Without threat, limitations, or exclusions, the Contractor assumes the obligation and responsibility to provide, and shall also pay for, all permits and/or Bids required to be obtained. Permit and/or Bids are to be obtained for the required work and are to be paid by the Contractor.

3. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

4. All quantities, dimensions, and other data are approximations for the Contractor's bid purposes and are not necessarily for use in the Contractor's working drawings or contracts with subcontractors. All quantities, dimensions, and other data may vary from what indicated. Verify all conditions / dimensions prior to demolition.

5. All work shall be performed in compliance with all applicable codes, laws, and regulations including owner requirements.

6. The Contractor is responsible for all work indicated within the contract documents. The Contractor shall provide access to owner's records, documents, and information required to perform work. Owner assumes no responsibility for actual conflicts with the intended final product. In the event that conflicts with the intended final product are found that require modifications to the layout, owner retains the right to direct work of the Contractor.

7. The Contractor shall perform, and is responsible for, all work indicated within the contract documents. In the event that field conditions are uncovered or a discrepancy is found in the contract documents, the Contractor should immediately notify the owner and allow owner to inspect all areas in which work is to be performed. If the Contractor is unable to inspect owner's records, documents, and information required to perform work, there is no guarantee that the Contractor will perform all work indicated within the contract documents.

8. All quantities, dimensions, and other data are approximations for the Contractor's bid purposes and are not necessarily for use in the Contractor's working drawings or contracts with subcontractors. All quantities, dimensions, and other data may vary from what indicated. Verify all conditions / dimensions prior to demolition. Any work performed by the Contractor assumes the obligation and responsibility to provide, and shall also pay for, all permits and/or Bids required to be obtained.

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24. All quantities, dimensions, and other data are approximations for the Contractor's bid purposes and are not necessarily for use in the Contractor's working drawings or contracts with subcontractors. All quantities, dimensions, and other data may vary from what indicated. Verify all conditions / dimensions prior to demolition. Any work performed by the Contractor assumes the obligation and responsibility to provide, and shall also pay for, all permits and/or Bids required to be obtained.

25. All work shall be performed in compliance with all applicable codes, laws, and regulations including owner requirements.

DEMOLITION KEYNOTES

- Remove damaged precast wall panels
- Remove existing exposed sealant joints
- Replace horizontal precast concrete floor slab behind walls & as close to salvageable items. All debris caused by owner. Remove from site & dispose all non-salvaged; provide a detailed inventory list of those items & their stored location to the architect for future reference.
- Stop work immediately & inform the owner of any potential issues.
- Provide representative & architect for future reference.
- Prevent movement, settlement, damage or collapse of structure within demolition areas per code.
- Provide proper means of egress as required for occupied zones.
- Provide proper protection as required to protect owner's property, finishes, utilities, & construction necessary for connection of new services. Later patch all holes & openings in existing conditions / dimensions prior to demolition. All demolition work required is not limited to the extent of the interference. Alter existing construction that interferes with the intent is to remove all mechanical, plumbing, electrical & architectural items as indicated within the contract documents. Owner assumes no responsibility for actual damages caused by selective demolition. Remove and patch damaged masonry, repair & finish or replace damaged masonry. Damaged by selective demolition shall be repaired and finished or replaced to the extent of the interference. Owner shall be responsible for all demolition work. Match existing adjacent surfaces at no expense to the owner. Owner assumes no responsibility for acts of nature or other causes of damage.
- Provide temporary barricades & other forms of protection as required to protect owner's property, finishes, utilities, & construction necessary for connection of new services.
- Later patch all holes & openings in existing conditions / dimensions prior to demolition. All demolition work required is not limited to the extent of the interference. Alter existing construction that interferes with the intent is to remove all mechanical, plumbing, electrical & architectural items as indicated within the contract documents. Owner assumes no responsibility for actual damages caused by selective demolition. Remove and patch damaged masonry, repair & finish or replace damaged masonry. Damaged by selective demolition shall be repaired and finished or replaced to the extent of the interference. Owner shall be responsible for all demolition work. Match existing adjacent surfaces at no expense to the owner. Owner assumes no responsibility for acts of nature or other causes of damage.
LEVEL 1 - AREA B DEMO PLAN

GENERAL DEMOLITION PLAN NOTES

1. As the Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

2. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

3. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

4. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

LEVEL 1 - AREA B DEMO PLAN

- REMOVE EXISTING EXPOSED CONDUIT AND LIGHT FIXTURES FOR FRAMING AND ENTRANCE
- REMOVE EXISTING WINDOW AND SEALANT JOINT
- REMOVE DAMAGED PRECAST WALL
- REMOVE EXISTING WINDOWS, FRAMING AND ENTRANCE
- REPLACE HORIZONTAL PRECAST SUPPORT STRUCTURE TO REMAIN PATCHED, REPAIRED & FINISHED OR REPLACED TO DAMAGED BY SELECTIVE DEMOLITION SHALL BE RESULTING FROM DEMOLITION WORK & FILE W/ WHICH COULD BE MISCONSTRUED AS DAMAGE DEMOLITION, DOCUMENT SURROUNDING PROPERTIES OTHER ITEMS SCHEDULED TO REMAIN. PRIOR TO DEMOLITION VERIFY WHICH ITEMS ARE TO BE REPRESENTATIVE & ARCHITECT FOR FUTURE STOP WORK IMMEDIATELY & INFORM THE OWNER DEMOLITION OPERATIONS, THE CONTRACTOR IS TO IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING AREAS PER CODE.

CONTRACT LIMITS.

1. COLLAPSE OF STRUCTURE WITHIN DEMOLITION PREVENT MOVEMENT, SETTLEMENT, DAMAGE OR SHORING, BRACING OR SUPPORT AS REQUIRED TO CONDITION OF ITEMS OR STRUCTURES TO BE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL REQUIRES MODIFICATIONS TO THE LAYOUT.

2. IN THE CONTRACT DOCUMENTS ARE FOUND THAT FIELD CONDITION IS UNCOVERED OR A DISCREPANCIES NOTIFY THE ARCHITECT IMMEDIATELY IF A HIDDEN SERVICES. MECHANICAL, PLUMBING & ELECTRICAL UTILITIES & WORK & FOR THE PASSAGE OR CONNECTION OF ANY CONSTRUCTION NECESSARY FOR CONNECTION OF NEW LATER PATCH ALL HOLES & OPENINGS IN EXISTING REQUIRED TO FACILITATE NEW CONSTRUCTION. CUT & ALTER EXISTING CONSTRUCTION THAT INTERFERES W/ ALL DEMOLITION WORK REQUIRED IS NOT LIMITED TO MATCH EXISTING ADJACENT SURFACES AT NO EXPENSE PATCHED, REPAIRED & FINISHED OR REPLACED TO DAMAGED BY SELECTIVE DEMOLITION SHALL BE RESULTING FROM DEMOLITION WORK & FILE W/ WHICH COULD BE MISCONSTRUED AS DAMAGE DEMOLITION, DOCUMENT SURROUNDING PROPERTIES OTHER ITEMS SCHEDULED TO REMAIN. PRIOR TO DEMOLITION VERIFY WHICH ITEMS ARE TO BE REPRESENTATIVE & ARCHITECT FOR FUTURE STOP WORK IMMEDIATELY & INFORM THE OWNER DEMOLITION OPERATIONS, THE CONTRACTOR IS TO IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING AREAS PER CODE.

3. PROVIDED TEMPORARY BARRICADES & OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER PROVISIONS OF THE CONTRACT DOCUMENTS ARE FOUND THAT FIELD CONDITION IS UNCOVERED OR A DISCREPANCIES NOTIFY THE ARCHITECT IMMEDIATELY IF A HIDDEN SERVICES. MECHANICAL, PLUMBING & ELECTRICAL UTILITIES & WORK & FOR THE PASSAGE OR CONNECTION OF ANY CONSTRUCTION NECESSARY FOR CONNECTION OF NEW LATER PATCH ALL HOLES & OPENINGS IN EXISTING REQUIRED TO FACILITATE NEW CONSTRUCTION. CUT & ALTER EXISTING CONSTRUCTION THAT INTERFERES W/ ALL DEMOLITION WORK REQUIRED IS NOT LIMITED TO MATCH EXISTING ADJACENT SURFACES AT NO EXPENSE PATCHED, REPAIRED & FINISHED OR REPLACED TO DAMAGED BY SELECTIVE DEMOLITION SHALL BE RESULTING FROM DEMOLITION WORK & FILE W/ WHICH COULD BE MISCONSTRUED AS DAMAGE DEMOLITION, DOCUMENT SURROUNDING PROPERTIES OTHER ITEMS SCHEDULED TO REMAIN. PRIOR TO DEMOLITION VERIFY WHICH ITEMS ARE TO BE REPRESENTATIVE & ARCHITECT FOR FUTURE STOP WORK IMMEDIATELY & INFORM THE OWNER DEMOLITION OPERATIONS, THE CONTRACTOR IS TO IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING AREAS PER CODE.

4. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

5. THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS FORBIDDEN.
LEVEL 2 DEMOLITION PLAN

SHADING NOTE: Area 1 and Area 2 have been shaded to indicate areas of the building that have no work planned. Mechanical, plumbing, and electrical work may need to access these areas to complete their work. Refer to mechanical and electrical drawings.
GENERAL DEMOLITION PLAN NOTES

1. All existing electrical, mechanical, and plumbing systems, as well as any other systems or structures, are to be removed and/or isolated as necessary to ensure public safety and health. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

2. The Contractor shall be responsible for ensuring that all demolition activities are performed in compliance with applicable building codes, regulations, and safety standards.

3. The Contractor shall provide temporary barricades and other forms of protection as required to prevent movement, settlement, and damage to existing structures, finishes, utilities, and services during the demolition process.

4. The Contractor shall ensure that all demolition work is performed in a manner that does not interfere with the owner's ability to access or use the premises during the demolition process.

5. The Contractor shall carry out all demolition work in a manner that minimizes noise and disruption to the general public and other tenants.

6. The Contractor shall provide a work schedule for the demolition activities, which shall be approved by the owner and/or the architect.

7. The Contractor shall be responsible for the safe and efficient completion of all demolition work within the specified time frame.

8. The Contractor shall be responsible for the removal and disposal of all debris and waste generated during the demolition process.

9. The Contractor shall ensure that all work areas are left clean and clear of debris and waste at the conclusion of each work day.

10. The Contractor shall ensure that all work areas are left in a safe and secure condition at the conclusion of each work day.

11. The Contractor shall be responsible for ensuring that all entering and exiting points are marked and protected.

12. The Contractor shall be responsible for ensuring that all work areas are properly ventilated and free from hazards.

13. The Contractor shall be responsible for ensuring that all work areas are properly secured and locked at the end of each work day.

14. The Contractor shall be responsible for ensuring that all work areas are properly cleaned and maintained at the end of each work day.

15. The Contractor shall be responsible for ensuring that all work areas are properly equipped and stocked with the necessary tools and materials.

16. The Contractor shall be responsible for ensuring that all work areas are properly monitored and controlled during the demolition process.

17. The Contractor shall be responsible for ensuring that all work areas are properly closed and locked at the conclusion of each work day.

18. The Contractor shall be responsible for ensuring that all work areas are properly maintained and cleaned at the conclusion of each work day.

19. The Contractor shall be responsible for ensuring that all work areas are properly equipped and stocked with the necessary tools and materials.

20. The Contractor shall be responsible for ensuring that all work areas are properly monitored and controlled during the demolition process.

21. The Contractor shall be responsible for ensuring that all work areas are properly closed and locked at the conclusion of each work day.

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28. The Contractor shall be responsible for ensuring that all work areas are properly monitored and controlled during the demolition process.

29. The Contractor shall be responsible for ensuring that all work areas are properly closed and locked at the conclusion of each work day.

30. The Contractor shall be responsible for ensuring that all work areas are properly maintained and cleaned at the conclusion of each work day.
LEVEL 2 - AREA B DEMO PLAN

DEMOLITION KEYNOTES

1. REMOVE DAMAGED PRECAST WALL PANELS
2. REMOVE EXISTING EXPOSED SEALANT JOINT
3. REMOVE EXISTING WINDOW AND FRAME
4. REMOVE EXISTING WINDOWS, DOORS, AND MASONRY INFILL

CONTRACT Documents:

All demolition work required is not limited to the drawings shown. All demolition work to be performed in compliance with all applicable codes, laws, regulations, permits, and the contract documents.

The contractor shall verify and be responsible for all dimensions. Do not scale the drawing - any errors or omissions shall be reported to Stantec without delay.

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Tel: (248) 336-4700 • www.stantec.com

PERMIT/BID SET 2022.06.21

By Appd YYYY.MM.DD

DOCUMENTATION:

1. Original contract documents
2. Addendum
3. Bidding documents
4. Original contractor materials
5. Original design build contractor materials
6. Original architectural materials

LEVEL 2 DEMOLITION PLAN AREA B

3/28/2022

02/10/22

՝ Checking, Designing, and Authoring

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LEVEL 2 DEMOLITION PLAN AREA B

3/28/2022

02/10/22

很少的错误和改进需要
GENERAL DEMOLITION NOTES

1. DEMOLITION OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT DOCUMENTS AND APPLICABLE LOCAL CODES.

2. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING – ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

3. THE CONTRACTOR SHALL PROVIDE A DETAILED INVENTORY LIST OF SALVaged ITEMS PRIOR TO DEMOLITION VERIFY WHICH ITEMS ARE TO BE SALVAGED; PROVIDE A DETAILED INVENTORY LIST OF SALVAGED ITEMS & THEIR STORED LOCATION TO THE OWNER. PROVIDE TEMPORARY BARRICADES & OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S INTERESTS.

4. NO WORK IS TO BE PERFORMED IN AREAS PER CODE.

5. ALL DEMOLITION WORK REQUIRED IS NOT LIMITED TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR CAPPING, UNLESS OTHERWISE NOTED. REFER TO THE CEILING DECK AS POSSIBLE & MADE SAFE BY CONCRETE FLOOR SLAB, BEHIND WALLS & AS CLOSE TO PIPING IS TO BE REMOVED TO A POINT BELOW EXISTING ALL ABANDON MECHANICAL, PLUMBING & ELECTRICAL INFRINGE ON CLEAR PATH OF EGRESS. REMOVED FROM SITE. DEBRIS STORAGE SHALL NOT DEMOLITION & CONSTRUCTION SHALL BE CLEARED & SALVAGEABLE ITEMS. ALL DEBRIS CAUSED BY THOSE ITEMS & THEIR STORED LOCATION TO THE GENERAL PUBLIC FROM INJURY DUE TO PROTECTION AS REQUIRED TO PROTECT OWNER'S INTERESTS.

6. PROVIDE INTERIOR &/OR EXTERIOR SHORING, BRACING OR SUPPORT AS REQUIRED TO PROTECT ADJACENT AREAS FROM DUST, EXCESSIVE MOVEMENT, SETTLEMENT, DAMAGE OR DEMOLISHED. PROVIDE INTERIOR &/OR EXTERIOR CONDITION OF ITEMS OR STRUCTURES TO BE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONFLICTS WITH THE INTENDED FINAL PRODUCT & IN THE CONTRACT DOCUMENTS ARE FOUND THAT FIELD CONDITION IS UNCOVERED OR A DISCREPANCIES SERVICES INCLUDING THE SHUTDOWN OF UTILITIES, THE SURROUNDING AREAS & ANY INTERRUPTION OF NOISE OR DISRUPTION OF OPERATION. ANY WORK REQUIRES MODIFICATIONS TO THE LAYOUT. THE INTENT IS TO REMOVE ALL MECHANICAL, ALTER EXISTING CONSTRUCTION THAT INTERFERES W/ THAT INDICATED WITHIN THE CONTRACT DOCUMENTS.

7. PROVIDE A DETAILED INVENTORY LIST OF SALVAGED ITEMS PRIOR TO DEMOLITION VERIFY WHICH ITEMS ARE TO BE SALVAGED; PROVIDE A DETAILED INVENTORY LIST OF SALVAGED ITEMS & THEIR STORED LOCATION TO THE OWNER. PROVIDE TEMPORARY BARRICADES & OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S INTERESTS.

8. DEMOLITION OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT DOCUMENTS AND APPLICABLE LOCAL CODES.

9. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING – ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

10. THE CONTRACTOR SHALL PROVIDE A DETAILED INVENTORY LIST OF SALVaged ITEMS PRIOR TO DEMOLITION VERIFY WHICH ITEMS ARE TO BE SALVAGED; PROVIDE A DETAILED INVENTORY LIST OF SALVAGED ITEMS & THEIR STORED LOCATION TO THE OWNER. PROVIDE TEMPORARY BARRICADES & OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S INTERESTS.

11. NO WORK IS TO BE PERFORMED IN AREAS PER CODE.

12. ALL DEMOLITION WORK REQUIRED IS NOT LIMITED TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR CAPPING, UNLESS OTHERWISE NOTED. REFER TO THE CEILING DECK AS POSSIBLE & MADE SAFE BY CONCRETE FLOOR SLAB, BEHIND WALLS & AS CLOSE TO PIPING IS TO BE REMOVED TO A POINT BELOW EXISTING ALL ABANDON MECHANICAL, PLUMBING & ELECTRICAL INFRINGE ON CLEAR PATH OF EGRESS. REMOVED FROM SITE. DEBRIS STORAGE SHALL NOT DEMOLITION & CONSTRUCTION SHALL BE CLEARED & SALVAGEABLE ITEMS. ALL DEBRIS CAUSED BY THOSE ITEMS & THEIR STORED LOCATION TO THE GENERAL PUBLIC FROM INJURY DUE TO PROTECTION AS REQUIRED TO PROTECT OWNER'S INTERESTS.

13. PROVIDE INTERIOR &/OR EXTERIOR SHORING, BRACING OR SUPPORT AS REQUIRED TO PROTECT ADJACENT AREAS FROM DUST, EXCESSIVE MOVEMENT, SETTLEMENT, DAMAGE OR DEMOLISHED. PROVIDE INTERIOR &/OR EXTERIOR CONDITION OF ITEMS OR STRUCTURES TO BE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONFLICTS WITH THE INTENDED FINAL PRODUCT & IN THE CONTRACT DOCUMENTS ARE FOUND THAT FIELD CONDITION IS UNCOVERED OR A DISCREPANCIES SERVICES INCLUDING THE SHUTDOWN OF UTILITIES, THE SURROUNDING AREAS & ANY INTERRUPTION OF NOISE OR DISRUPTION OF OPERATION. ANY WORK REQUIRES MODIFICATIONS TO THE LAYOUT. THE INTENT IS TO REMOVE ALL MECHANICAL, ALTER EXISTING CONSTRUCTION THAT INTERFERES W/ THAT INDICATED WITHIN THE CONTRACT DOCUMENTS.
LEVEL 2 DEMOLITION REFLECTED CEILING PLAN
GENERAL FLOOR PLAN NOTES

1. REMOVE EXISTING METAL COPING TO MATCH EXISTING.
   INSTALL INSULATED METAL WALL WHERE EXISTING.
   PROVIDE PATCH CEILING CLOSE TO NEW GLAZED INTO CURTAIN WALL.
   REFER TO ELECTRICAL.
   INSTALL NEW LIGHTING AND EXTERIOR WALL. REPLACE INT/EXT LIGHTING AND CONDUIT AWAY FROM JOINT. REFER TO ELECTRICAL SCOPE.
   PATCH CEILING WHERE EXISTING. FLASH INTO EXTERIOR LIGHTING AND CONDUIT AWAY FROM JOINT. REFER TO ELECTRICAL.
   PATCH CEILING WHERE EXISTING. FLASH INTO EXTERIOR LIGHTING AND CONDUIT AWAY FROM JOINT. REFER TO ELECTRICAL.
   INSTALL NEW MANUAL ROLLER DOOR 0" AFF ON ALL WALLS.
   INSTALL NEW LIGHTING AND EXTERIOR WALL. REPLACE INT/EXT LIGHTING AND CONDUIT AWAY FROM JOINT. REFER TO ELECTRICAL SCOPE.
   INSTALL NEW LIGHTING AND EXTERIOR WALL. REPLACE INT/EXT LIGHTING AND CONDUIT AWAY FROM JOINT. REFER TO ELECTRICAL.
   PATCH CEILING WHERE EXISTING. FLASH INTO EXTERIOR LIGHTING AND CONDUIT AWAY FROM JOINT. REFER TO ELECTRICAL.

2. PROVIDE TILE BACKER BOARD AT ALL WALL LOCATIONS SCHEDULED TO RECEIVE TILE FINISHES. REFER TO ROOM FINISH SCHEDULE FOR WALLS TO PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
   PROVIDE TILE BACKER BOARD AT ALL WALL LOCATIONS SCHEDULED TO RECEIVE TILE FINISHES. REFER TO ROOM FINISH SCHEDULE FOR WALLS TO PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
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   PROVIDE TILE BACKER BOARD AT ALL WALL LOCATIONS SCHEDULED TO RECEIVE TILE FINISHES. REFER TO ROOM FINISH SCHEDULE FOR WALLS TO PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.

3. INSERTS. CLASS TO BE 1" LOW-E INSULATING GLASS, SPANDRELS TO MATCH EXISTING KYNAR-COATED, ALUMINUM CURTAIN WALL. REFER TO ELECTRICAL.
   INSERTS. CLASS TO BE 1" LOW-E INSULATING GLASS, SPANDRELS TO MATCH EXISTING KYNAR-COATED, ALUMINUM CURTAIN WALL. REFER TO ELECTRICAL.
   INSERTS. CLASS TO BE 1" LOW-E INSULATING GLASS, SPANDRELS TO MATCH EXISTING KYNAR-COATED, ALUMINUM CURTAIN WALL. REFER TO ELECTRICAL.
   INSERTS. CLASS TO BE 1" LOW-E INSULATING GLASS, SPANDRELS TO MATCH EXISTING KYNAR-COATED, ALUMINUM CURTAIN WALL. REFER TO ELECTRICAL.
   INSERTS. CLASS TO BE 1" LOW-E INSULATING GLASS, SPANDRELS TO MATCH EXISTING KYNAR-COATED, ALUMINUM CURTAIN WALL. REFER TO ELECTRICAL.

4. PROVIDE MASONRY PARTITIONS ARE TYPE M08 UNLESS NOTED TYPES. PROVIDE MASONRY PARTITIONS ARE TYPE M08 UNLESS NOTED TYPES.
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5. PROVIDE W/ MECHANICAL, PLUMBING &/OR ELECTRICAL TRADE COLUMN REFERENCE LINE TO CENTERLINE OF TRAFFIC LANE.
   PROVIDE W/ MECHANICAL, PLUMBING &/OR ELECTRICAL TRADE COLUMN REFERENCE LINE TO CENTERLINE OF TRAFFIC LANE.
   PROVIDE W/ MECHANICAL, PLUMBING &/OR ELECTRICAL TRADE COLUMN REFERENCE LINE TO CENTERLINE OF TRAFFIC LANE.
   PROVIDE W/ MECHANICAL, PLUMBING &/OR ELECTRICAL TRADE COLUMN REFERENCE LINE TO CENTERLINE OF TRAFFIC LANE.
   PROVIDE W/ MECHANICAL, PLUMBING &/OR ELECTRICAL TRADE COLUMN REFERENCE LINE TO CENTERLINE OF TRAFFIC LANE.

6. CONCRETE PAD SIZES INDICATED ARE BASED ON A CONCRETE PAD, UNLESS NOTED OTHERWISE.
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   CONCRETE PAD SIZES INDICATED ARE BASED ON A CONCRETE PAD, UNLESS NOTED OTHERWISE.

7. PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
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   PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
   PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.

8. REFER TO ROOM FINISH SCHEDULE FOR WALLS TO PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.
   REFER TO ROOM FINISH SCHEDULE FOR WALLS TO PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.
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   REFER TO ROOM FINISH SCHEDULE FOR WALLS TO PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.

9. REFER TO DRAWING G021 FOR WALL ACCESSORIES AND ROOM FINISH SCHEDULE FOR LOCATIONS.
   REFER TO DRAWING G021 FOR WALL ACCESSORIES AND ROOM FINISH SCHEDULE FOR LOCATIONS.
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   REFER TO DRAWING G021 FOR WALL ACCESSORIES AND ROOM FINISH SCHEDULE FOR LOCATIONS.

10. REFER TO DRAWING A421 FOR ALL INTERIOR PARTITION DESIGNATION DESCREPENCY OCCURS LOCATIONS & EXTENT OF RATED ASSEMBLIES. IF REFER TO CODE DRAWINGS (G000 SERIES) FOR PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
    REFER TO CODE DRAWINGS (G000 SERIES) FOR PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
    REFER TO CODE DRAWINGS (G000 SERIES) FOR PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.
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    REFER TO CODE DRAWINGS (G000 SERIES) FOR PROVIDE THE PARTITION TYPE INDICATED W/ THE MOST HAND RAILS, EQUIPMENT, ETC.

11. PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.
    PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.
    PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.
    PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.
    PROVIDE FRT PLYWOOD BACKING PANELS IN ALL MDF, RECEIVE ABUSE RESISTANT GYPSUM BOARD.

12. ALL DIMENSIONS ARE FROM COLUMN REFERENCE LINE (XXXX DATUM, REFER TO CIVIL). FIRST FLOOR REFERENCE ELEVATION 100 0'. TOP TO FACE OF PARTITION, UNLESS NOTED OTHERWISE.
    ALL DIMENSIONS ARE FROM COLUMN REFERENCE LINE (XXXX DATUM, REFER TO CIVIL). FIRST FLOOR REFERENCE ELEVATION 100 0'. TOP TO FACE OF PARTITION, UNLESS NOTED OTHERWISE.
    ALL DIMENSIONS ARE FROM COLUMN REFERENCE LINE (XXXX DATUM, REFER TO CIVIL). FIRST FLOOR REFERENCE ELEVATION 100 0'. TOP TO FACE OF PARTITION, UNLESS NOTED OTHERWISE.
    ALL DIMENSIONS ARE FROM COLUMN REFERENCE LINE (XXXX DATUM, REFER TO CIVIL). FIRST FLOOR REFERENCE ELEVATION 100 0'. TOP TO FACE OF PARTITION, UNLESS NOTED OTHERWISE.
    ALL DIMENSIONS ARE FROM COLUMN REFERENCE LINE (XXXX DATUM, REFER TO CIVIL). FIRST FLOOR REFERENCE ELEVATION 100 0'. TOP TO FACE OF PARTITION, UNLESS NOTED OTHERWISE.
LEVEL 1 - AREA B

GENERAL FLOOR PLAN NOTES

1. PROVIDE THERMALLY BROKEN, 1" LOW-E INSULATING GLASS, SPANDRELS TO THE PERIMETER OF THE BUILDING.
2. REPLACE ALL EXTERIOR MOUNTED SEETHROUGH LIGHTING AND CONDUIT AND LIGHT FIXTURES FOR HOUSEKEEPING PADS. ALL DIMENSIONS ARE FROM FACE OF PARTITION TO FIRST FLOOR REFERENCE ELEVATION 100.' APPROXIMATE. VERIFY ACTUAL DIMENSION IN FIELD.
3. INSTALL NEW MANUAL ROLLER SHUTTERS. REFER TO DRAWING A311. GLASS TO BE STOREFRONT WINDOWS AND TRIM WHERE CURTAIN WALL PASSES BY INCLUDE PERIMETER FIRESTOPPING. THE PERIMETER OF THE BUILDING.
4. INSTALL INSULATED METAL WALL PANELS. PATCH ROOF AND EXISTING MOUNTING HOLES. PATCH CEILING CLOSE TO NEW KYNAR-COATED ALUMINUM WALL WITH OPERABLE WINDOW INSERTS. CLASS TO BE 1" LOW-E INSULATING GLASS, SPANDRELS TO PROVIDE PRE-FINISHED PRODUCT DATA. OPENNESS: 3% /
5. REPLACE ALL EXTERIOR MOUNTED SEETHROUGH LIGHTING AND CONDUIT AND LIGHT FIXTURES FOR HOUSEKEEPING PADS. ALL DIMENSIONS ARE FROM FACE OF PARTITION TO FIRST FLOOR REFERENCE ELEVATION 100.' APPROXIMATE. VERIFY ACTUAL DIMENSION IN FIELD.

CONTACT STANTEC FOR TYPICAL DETAIL FOR CONCRETE PAD, UNLESS NOTED OTHERWISE. FOR HOUSEKEEPING PADS, ALL DIMENSIONS ARE FROM FACE OF PARTITION, UNLESS NOTED OTHERWISE. REFER TO DRAWING A501 FOR ALL INTERIOR PARTITION TYPES.

CONTRACTOR TO OBTAIN PURCHASED EQUIPMENT W/ MECHANICAL, PLUMBING &/OR ELECTRICAL TRADE SPECIFIC MANUFACTURER CONCRETE PAD, UNLESS NOTED OTHERWISE.

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LEVEL 2 FLOOR PLAN

AREA A

AREA B

AREA C
MECHANICAL EQUIPMENT
REFER TO MECHANICAL DRAWINGS

GUARDRAIL ASSEMBLY
2" GALV. STEEL GRATING
MECHANICAL PLATFORM
SERVICE STAIR

EXISTING ROOF EQUIPMENT

EXISTING ROOF CURB

Saucut existing concrete roof for installation of mechanical ductwork. Refer to structural for typical detail.

1/4" Thick kick plate continuous at guardrail assembly.

Sealant, stainless steel drawband, single-ply roofing, base flashing adhered to steel.

Install new roof insulation to replace existing removed for structural steel installation. Extend base flashing and overlap existing roofing 3" min.

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Shading Note:
Gray shaded area indicates areas of the building that have no work planned. Mechanical, plumbing, and electrical may need to access these areas to complete their work. Refer to mechanical and electrical drawings.
GENERAL CEILING PLAN NOTES

1. REFER TO FLOOR PLANS & INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES & DEVICES, ETC.
2. REFER TO MECHANICAL, ELECTRICAL & TECHNOLOGY DRAWINGS FOR QUANTITY & TYPE OF CEILING MOUNTED FIXTURE, DEVICES, ETC.
3. CENTER ALL LIGHTS, DIFFUSERS, ETC. IN CEILING TILES UNLESS NOTED OTHERWISE.
4. TYPICAL CEILING HEIGHT IN CLASSROOMS SHALL BE 12'-0" AFF UNLESS NOTED OTHERWISE.
5. TYPICAL CEILING HEIGHT IN CORRIDORS SHALL BE 10'-0" AFF UNLESS NOTED OTHERWISE.
6. TYPICAL HEIGHT FOR GYPSUM BOARD BULKHEADS SHALL BE 8'-10" AFF, UNLESS NOTED OTHERWISE.
7. GYPSUM BOARD SOFFIT ELEVATIONS ARE GENERAL IN NATURE, THOSE ABUTTING CURTAIN WALL ARE TO ALIGN WITH TOP AND BOTTOM OF MULLION AS INDICATED IN SECTION DETAIL.
8. ALL ROLLER SHADES SHALL BE MANUAL, UNO.

CEILING CONSTRUCTION NOTES

1. REMOVE EXISTING HARD CEILING. AFTER HVAC RENOVATION, PROVIDE NEW LAY-IN ACOUSTICAL CEILING.
GENERAL CEILING PLAN NOTES

1. REFER TO FLOOR PLANS & INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES & DEVICES, ETC.

2. REFER TO MECHANICAL, ELECTRICAL & TECHNOLOGY DRAWINGS FOR QUANTITY & TYPE OF CEILING MOUNTED FIXTURE, DEVICES, ETC.

3. CENTER ALL LIGHTS, DIFFUSERS, ETC. IN CEILING TILES UNLESS NOTED OTHERWISE.

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7. GYPSUM BOARD SOFFIT ELEVATIONS ARE GENERAL IN NATURE, THOSE ABUTTING CURTAIN WALL ARE TO ALIGN WITH TOP AND BOTTOM OF MULLION AS INDICATED IN SECTION DETAIL

8. ALL ROLLER SHADES SHALL BE MANUAL, UNO.

CEILING CONSTRUCTION NOTES

1. REMOVE EXISTING HARD CEILING. AFTER HVAC RENOVATION, PROVIDE NEW LAY-IN ACOUSTICAL CEILING.

KEY PLAN

REFLECTED CEILING PLAN - AREA B
KEYNOTES

1. IN ADDITION TO LINTEL REPLACEMENT TUCKPOINT AND/OR RE-SET DISLODGED MASONRY - ASSUME 10% OF MASONRY SURFACE AREA.

2. REFER TO SHEET A501 FOR WINDOW SCHEDULE.

3. ALL WINDOW REPLACEMENTS TO BE 1" LOW-E INSULATING GLASS, WITH HISTORICALLY PROFILED ALUMINUM, INCLUDING PANNING, SILLS, AND JAMB TRIM.

4. WHERE LINTELS ARE BEING REPLACED, INSTALL GALVANIZED LINTEL WITH STAINLESS STEEL FLASHING.

5. REMOVE LIMESTONE COPING. INSTALL DEFORMED STAINLESS STEEL FLASHING AND REINSTALL LIMESTONE COPING, SEAL JOINTS BETWEEN COPING STONES.

6. REMOVE TERRACOTTA COPING AROUND NORTH AND WEST SIDES AT BASE OF HIGH ROOF AREA. INSTALL DEFORMED STAINLESS STEEL FLASHING AND REINSTALL COPING.

7. POINT BRICK JOINTS

8. REPLACE STEEL LINTEL

9. POINT STONE SILL/TRIM/COPING

10. RESET OR REPLACE DILODGED OR BROKEN BRICK

11. REPLACE LIMESTONE CHIMNEY CAP - MATCH EXISTING METAL PANEL IN WINDOW FRAMING

12. PATCH STONE MISSING FROM PILASTER

13. PATCH BROKEN STONE

14. REPLACE MISSING LIMESTONE COLUMN SHAFT - MATCH EXISTING

15. PATCH MISSING MORTAR IN DECORATIVE BAND

16. REPLACE LIMESTONE SILL

17. RESET DISPLACED LIMESTONE BLOCK

18. PATCH LIMESTONE BELT COURSE
GENERAL NOTES
1. IN ADDITION TO LINTEL REPLACEMENT, INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING WINDOW TRIM.
2. REFER TO EXISTING WINDOW FRAME.
3. ALL WINDOW REPLACEMENTS TO BE 1" LOW-E INSULATING GLASS.
4. IN ADDITION TO LINTEL REPLACEMENT, TUCKPOINT AND/OR REPLACE CONCRETE OR MASONRY AS NEEDED.
5. REMOVE STEEL LINTEL. REINSTALL BRICK TO DECORATIVE PATTERN WITH WEEP HOLES.
6. REMOVE EXISTING WOOD SILL. INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING SILL.
7. SELECTIVELY SALVAGE DECORATIVE BRICK MASONRY TO 1/8" OR 1/4".
8. REMOVE STEEL LINTEL. REINSTALL BRICK TO DECORATIVE PATTERN WITH WEEP HOLES.
9. REMOVE EXISTING WOOD SILL. INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING SILL.
10. REMOVE EXISTING WOOD SILL. INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING SILL.

KEYNOTES
- LINTEL REPLACEMENT
- TUCKPOINT AND OR REPLACE CONCRETE OR MASONRY AS NEEDED
- REMOVE STEEL LINTEL. REINSTALL BRICK TO DECORATIVE PATTERN WITH WEEP HOLES
- REMOVE EXISTING WOOD SILL. INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING SILL
- SELECTIVELY SALVAGE DECORATIVE BRICK MASONRY TO 1/8" OR 1/4"
- REMOVE STEEL LINTEL. REINSTALL BRICK TO DECORATIVE PATTERN WITH WEEP HOLES
- REMOVE EXISTING WOOD SILL. INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING SILL
- REMOVE EXISTING WOOD SILL. INSTALL A MINIMUM OF 20 SQUARE INCHES OF MASONRY COMO SITE TO MATCH EXISTING SILL

REPLACE:
- LIMESTONE SILL
- PATCH BROKEN STONE
- PATCH STONE MISSING FROM PILASTER
- REPLACE LIMESTONE CHIMNEY CAP
- RESET OR REPLACE DILODGED OR BROKEN BRICK
1. EXPOSED STEEL: WELDED CONNECTIONS SHALL HAVE CONTINUOUS WELDS, BE COMPLETELY FILLED, GROUND SMOOTH & FINISHED AS SPECIFIED.

2. AIR BARRIER VAPOR RETARDER: EXTERIOR ENVELOPE SHALL HAVE CONTINUOUS AIR BARRIER / VAPOR RETARDER - TAPE / SEAL ALL PERIMETER TERMINATIONS, JOINTS & PENETRATIONS TO OTHER SUBSTRATES &/OR OTHER AIR BARRIER / VAPOR RETARDER & WATERPROOFING SYSTEMS AS REQ'D.

NOTE: THE 3" INSUL METAL PANEL IS ACTING AS THE AIR BARRIER / VAPOR RETARDER WHERE INSTALLED.

PROVIDE:

A. AIR BARRIER / VAPOR RETARDER TAPE AT ALL VERT & HORIZ PANEL JOINTS
B. AIR BARRIER / VAPOR RETARDER TAPE BETWEEN FACE OF PANEL & FASTENERS

3. STOREFRONT (& CURTAIN WALL WHEN USED) SYSTEMS ARE TO HAVE CLOSED HEAD, JAMB & SILL PROFILES.

4. FILL ALL VOIDS AROUND GLAZING SYSTEM PERIMETER WITH MINERAL WOOL INSULATION.

5. VERIFY ALL DIMENSIONS IN FIELD.
MECHANICAL GENERAL DEMOLITION NOTES

1. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

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MECHANICAL DEMOLITION KEYNOTES

1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.

2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.

3. ALL MECHANICAL SYSTEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN PIPES AND DUCTS. PATCH AND SEAL ALL OPENINGS AS A RESULT OF DEMOLITION IN RATED WALLS TO MAINTAIN EXISTING WALL'S FIRE OR SMOKE RATING AND TO MATCH EXISTING ADJACENT SURFACES.

4. ALL ITEMS AND EQUIPMENT REMOVED SHALL REMAIN PROPERTY OF THE OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. CONTRACTOR SHALL MEET WITH OWNER PRIOR TO START OF DEMOLITION TO DETERMINE WHICH ITEMS ARE TO BE SALVAGED. CONTRACTOR SHALL REMOVE REMAINING ITEMS FROM SITE.

5. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO START OF DEMOLITION.
AT ALL EXISTING OPEN ENDED DUCT RISERS IN TUNNEL, REMOVE EXISTING 24x12 STEAM COIL AND ASSOCIATED STEAM AND CONDENSATE PIPING ASSEMBLY (TYP 30 TOTAL PROJECT-WIDE). CAP ALL STEAM AND COND BRANCH PIPING AT MAINS.

MECHANICAL GENERAL DEMOLITION NOTES

1. ALL INTERIOR/EXTERIOR EXISTING SERVICES AND EQUIPMENT MUST BE SHUT OFF AND DE-ENERGIZED PRIOR TO DEMOLITION.

2. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

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MECHANICAL DEMOLITION KEYNOTES

1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.

2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.

3. ALL MECHANICAL SYSTEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN PIPES AND DUCTS. PATCH AND SEAL ALL OPENINGS AS A RESULT OF DEMOLITION IN RATED WALLS TO MAINTAIN EXISTING WALL'S FIRE OR SMOKE RATING AND TO MATCH EXISTING ADJACENT SURFACES.

4. ALL ITEMS AND EQUIPMENT REMOVED SHALL REMAIN PROPERTY OF THE OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. CONTRACTOR SHALL MEET WITH OWNER PRIOR TO START OF DEMOLITION TO DETERMINE WHICH ITEMS ARE TO BE SALVAGED. CONTRACTOR SHALL REMOVE REMAINING ITEMS FROM SITE.

5. CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING SERVICES PRIOR TO START OF DEMOLITION.
MECHANICAL GENERAL DEMOLITION NOTES

1. ALL MECHANICAL SYSTEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN PIPES AND DUCTS. PATCH AND SEAL ALL OPENINGS AS A RESULT OF DEMOLITION IN RATED WALLS TO MAINTAIN EXISTING WALL'S FIRE OR SMOKE RATING AND TO MATCH EXISTING ADJACENT SURFACES.

2. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO START OF DEMOLITION.

3. ALL ITEMS AND EQUIPMENT REMOVED SHALL REMAIN PROPERTY OF THE OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. CONTRACTOR SHALL MEET WITH OWNER PRIOR TO START OF DEMOLITION TO DETERMINE WHICH ITEMS ARE TO BE SALVAGED. CONTRACTOR SHALL REMOVE REMAINING ITEMS FROM SITE.

MECHANICAL DEMOLITION KEYNOTES

- REMOVE ALL (E) PNEUMATIC T-STATS IN THIS AREA (TYP)
- REMOVE ALL FTR COVERS AS REQUIRED TO ACCESS FTR STEAM CONTROL VALVES. REMOVE CONTROL VALVE AND CONTROLS TUBING COMPLETE (TYP FOR ADMIN)
- REMOVE ALL (E) SILL RADIATION GRILLES IN THIS AREA TO ACCESS STEAM CONTROL VALVE. REMOVE VALVE AND CONTROLS TUBING COMPLETE (TYP FOR ADMIN)
- REMOVE (E) SECTION OF SA DUCT TO PREP FOR INSTALLATION OF AIR TERMINAL UNIT (TYP - 5)
- REMOVE ALL FTR COVERS AS REQUIRED TO ACCESS FTR STEAM CONTROL VALVES. REMOVE CONTROL VALVE AND CONTROLS WIRING COMPLETE (TYP FOR 100, 100A, 101, 102 & 103)
- REMOVE ALL (E) THERMAL VALVES AND ALL EXISTING STEAM CONTROL VALVES (TYP FOR (E)ACU)
- REMOVE ALL (E) SECTION OF SA DUCT TO PREP FOR INSTALLATION OF AIR TERMINAL UNIT (TYP - 5)
- REMOVE ALL (E) THERMAL VALVES AND ALL EXISTING STEAM CONTROL VALVES (TYP FOR (E)ACU)
- REMOVE ALL (E) THERMAL VALVES AND ALL EXISTING STEAM CONTROL VALVES (TYP FOR (E)ACU)
MECHANICAL GENERAL DEMOLITION NOTES

1. Any interruption of service or disruption to existing systems will be performed at a time approved in advance by the owner's representative in order to interfere with the building operation.

2. These drawings indicate the general extent of work. The extent of demolition shall be as required by the new work and removal of materials/components not required for the new and renovated systems.

3. All mechanical systems to be removed shall be removed complete with all related items including hangers, supports, controls, etc. Cap all open pipes and ducts. Patch and seal all openings as a result of demolition in rated walls to maintain existing wall's fire or smoke rating and to match existing adjacent surfaces.

4. All items and equipment removed shall remain property of the owner unless possession rights are waived. Contractor shall meet with owner prior to start of demolition to determine which items are to be salvaged. Contractor shall remove remaining items from site.

5. Field verify exact size and location of all existing services prior to start of demolition.
MECHANICAL GENERAL DEMOLITION NOTES

1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE
   PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S
   REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.

2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF
   DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF
   MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED
   SYSTEMS.

3. ALL MECHANICAL SYSTEMS TO BE REMOVED SHALL BE REMOVED COMPLETE
   WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC
   CAP ALL OPEN PIPES AND DUCTS. PATCH AND SEAL ALL OPENINGS AS A RESULT
   OF DEMOLITION IN RATED WALLS TO MAINTAIN EXISTING WALL'S FIRE OR SMOKE
   RATING AND TO MATCH EXISTING ADJACENT SURFACES

4. ALL ITEMS AND EQUIPMENT REMOVED SHALL REMAIN PROPERTY OF THE
   OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. CONTRACTOR SHALL MEET
   WITH OWNER PRIOR TO START OF DEMOLITION TO DETERMINE WHICH ITEMS
   ARE TO BE SALVAGED. CONTRACTOR SHALL REMOVE REMAINING ITEMS FROM
   SITE.

5. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO
   START OF DEMOLITION.

MECHANICAL DEMOLITION KEYNOTES
MECHANICAL GENERAL DEMOLITION NOTES

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1. Any interruption of existing services or equipment shall be performed at a time approved in advance by the Owner's Representative so as not to interfere with the building operation.

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4. All items and equipment removed shall remain property of the Owner unless possession rights are waived. Contractor shall meet with Owner prior to start of demolition to determine which items are to be salvaged. Contractor shall remove remaining items from site.

5. Field verify exact size and location of all existing services prior to start of demolition.

SECOND LEVEL MECHANICAL DEMOLITION PLAN - AREA A

MECHANICAL DEMOLITION KEYNOTES

- All mechanical systems to be removed shall be removed complete with all related items including hangers, supports, controls, etc.
- Cap all open pipes and ducts. Patch and seal all openings as a result of demolition in rated walls to maintain existing wall's fire or smoke rating and to match existing adjacent surfaces.
- All items and equipment removed shall remain property of the Owner unless possession rights are waived. Contractor shall meet with Owner prior to start of demolition to determine which items are to be salvaged. Contractor shall remove remaining items from site.
- Field verify exact size and location of all existing services prior to start of demolition.
MECHANICAL GENERAL DEMOLITION NOTES

1. Any interruption of existing services or equipment shall be performed at a time approved in advance by the owner's representative so as not to interfere with the building operation.

2. These drawings indicate the general extent of work. The extent of demolition shall be as required by the new work and removal of materials/components not required for the new and renovated systems.

3. All mechanical systems to be removed shall be removed complete with all related items including hangers, supports, controls, etc. Cap all open pipes and ducts. Patch and seal all openings as a result of demolition in rated walls to maintain existing wall's fire or smoke rating and to match existing adjacent surfaces.

4. All items and equipment removed shall remain property of the owner unless possession rights are waived. Contractor shall meet with owner prior to start of demolition to determine which items are to be salvaged. Contractor shall remove remaining items from site.

5. Field verify exact size and location of all existing services prior to start of demolition.

SECOND LEVEL MECHANICAL DEMOLITION PLAN - AREA B
MECHANICAL GENERAL DEMOLITION NOTES

1. ALL MECHANICAL SYSTEMS TO BE REMOVED SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN PIPES AND DUCTS. PATCH AND SEAL ALL OPENINGS AS A RESULT OF DEMOLITION IN RATED WALLS TO MAINTAIN EXISTING WALL'S FIRE OR SMOKE RATING AND TO MATCH EXISTING ADJACENT SURFACES.

2. ALL ITEMS AND EQUIPMENT REMOVED SHALL REMAIN PROPERTY OF THE OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. CONTRACTOR SHALL MEET WITH OWNER PRIOR TO START OF DEMOLITION TO DETERMINE WHICH ITEMS ARE TO BE SALVAGED. CONTRACTOR SHALL REMOVE REMAINING ITEMS FROM SITE.

3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO START OF DEMOLITION.

MECHANICAL DEMOLITION KEYNOTES

- REMOVE ALL (E) PNEUMATIC STATS IN THIS AREA (TYP).
- REMOVE ALL (E) SILL RADIATION GRILLES IN THIS AREA TO ACCESS STEAM CONTROL VALVE. REMOVE VALVE AND CONTROLS TUBING COMPLETE (TYP).
- REMOVE ALL 14x8 SA DIFFUSERS. (2) IN EACH CLASSROOM. ENLARGE WALL OPENING TO FIT NEW GRILLE UP TO 16x16 DUCT WITHIN WALL.
- NO SCOPE.
MECHANICAL GENERAL NOTES
1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.
2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.
4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.
5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.
6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.
7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION REQUIREMENTS.
8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.
9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND SPECIFICATIONS.
10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRIC REFLECTED CEILING PLANS.

MECHANICAL KEYNOTES
1. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.
2. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.

EXAMPLE LAYOUT PER VRF UNIT SERVING STACKED AREAS. CONNECT TO (2) EXISTING SUPPLY BRANCHES PER ROOM ABOVE, (4) TOTAL. SAME NUMBER OF RETURN BRANCHES CONNECTING TO EXISTING.
MECHANICAL GENERAL NOTES

1. PROVIDE ALL MECHANICAL DUCTWORK FOR AIR HANDLING UNITS TO BE ENCLOSURE TYPE.

2. PROVIDE ALL EXHAUST SYSTEMS TO BE ENCLOSURE TYPE.

3. ALL EXHAUST SYSTEMS TO BE ENCLOSURE TYPE.

4. PROVIDE ALL INSULATION PER MANUFACTURER'S RECOMMENDATIONS.

5. PROVIDE ALL DAMPERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

6. PROVIDE ALL VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. PROVIDE ALL ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

8. PROVIDE ALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

9. PROVIDE ALL PENETRATIONS THROUGH WALLS AND CEILINGS TO BE SEALED.

10. PROVIDE ALL DIFFUSERS AND RETURN GRILLES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.

11. PROVIDE ALL TEMPERATURE SENSOR LOCATIONS IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.

12. PROVIDE ALL VAV BOXES AND VALVES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.

13. PROVIDE ALL DUCT LOCATIONS IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.

14. PROVIDE ALL DUCT LOCATIONS IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.

15. PROVIDE ALL DUCT LOCATIONS IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.

MECHANICAL KEYNOTES

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.

2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.

4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.

5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.

6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.

7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION REQUIREMENTS.

8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.

9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND SPECIFICATIONS.

10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRIC REFLECTED CEILING PLANS.

11. COORDINATE ALL TEMPERATURE SENSOR LOCATIONS WITH FURNITURE AND ARCHITECT.

12. VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.

13. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.
MECHANICAL GENERAL NOTES

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.
2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.
4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.
5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.
6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.
7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION REQUIREMENTS.
8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.
9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND SPECIFICATIONS.
10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRIC REFLECTED CEILING PLANS.
11. COORDINATE ALL TEMPERATURE SENSOR LOCATIONS WITH FURNITURE AND ARCHITECT.
12. VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.
13. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.

MECHANICAL KEYNOTES

- FIRST LEVEL SHEET METAL PLAN - AREA A

- PROVIDE DDC RETROFIT KITS FOR CUH CONTROL VALVES TO ATU-103 & FTR.
MECHANICAL GENERAL NOTES

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT INSTALLATION.

2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.

3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.

4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED.

5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.

6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.

7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION.

8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.

9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND REQUIREMENTS.

10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH CEILING AND ARCHITECT.

11. COORDINATE ALL TEMPERATURE SENSOR LOCATIONS IN TRASH ROOMS WITH SITE CONDITIONS SPECIFICATIONS.

12. COORDINATE VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.

13. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING AND ARCHITECT.

14. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.

MECHANICAL KEYNOTES

- Coordinate locations in trash rooms as per the site conditions schedule.
- Ensure all ductwork is concealed in walls and/or ceiling space, unless otherwise noted.
- Seal all penetrations through walls per details and requirements.
- Coordinate all temperature sensor locations in trash rooms with site conditions specifications.
- Coordinate exact locations of all diffusers and return grilles with ceiling and architect.
MECHANICAL GENERAL NOTES

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.

2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

3. ALL DUCTWORK SIZE AND LOCATION TO MATCH TEMPERATURE SENSOR LOCATIONS WITH FURNITURE AND ARCHITECT.

4. VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.

5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.

6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.

7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION REQUIREMENTS.

8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.

9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND SPECIFICATIONS.

10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRIC REFLECTED CEILING PLANS.

11. COORDINATE ALL TEMPERATURE SENSOR LOCATIONS WITH FURNITURE AND ARCHITECT.

12. MECHANICAL KEYNOTES

13. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.

MECHANICAL KEYNOTES
MECHANICAL KEYNOTES

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.

2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.

4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.

5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.

6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.

7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION REQUIREMENTS.

8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.

9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND SPECIFICATIONS.

10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRIC REFLECTED CEILING PLANS.

11. COORDINATE ALL TEMPERATURE SENSOR LOCATIONS WITH FURNITURE AND ARCHITECT.

12. VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.

13. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.

MECHANICAL GENERAL NOTES

1. PROVIDE ACCESS TO ALL DUCTWORK AND EQUIPMENT FOR MAINTENANCE.

2. ALL DUCTWORK SHALL BE BUILT IN ACCORDANCE WITH NATIONAL TUBESANDDuctING SPECIFICATIONS.

3. ALL DUCTWORK SHALL BE BUILT IN ACCORDANCE WITH NATIONAL TUBESANDDucting SPECIFICATIONS.

4. PROVIDE ACCESS TO ALL DUCTWORK AND EQUIPMENT FOR MAINTENANCE.

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10. PROVIDE ACCESS TO ALL DUCTWORK AND EQUIPMENT FOR MAINTENANCE.

11. ALL DUCTWORK SHALL BE BUILT IN ACCORDANCE WITH NATIONAL TUBESANDDucting SPECIFICATIONS.
MECHANICAL GENERAL NOTES

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO AVOID INTERFERENCES.

2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.

4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.

5. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.

6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.

7. REFER TO MECHANICAL SPECIFICATION FOR DUCTWORK INSULATION REQUIREMENTS.

8. ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE, UNLESS OTHERWISE NOTED.

9. SEAL ALL PENETRATIONS THROUGH WALLS PER DETAILS AND SPECIFICATIONS.

10. COORDINATE EXACT LOCATIONS OF ALL DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRIC REFLECTED CEILING PLANS.

11. COORDINATE ALL TEMPERATURE SENSOR LOCATIONS WITH FURNITURE AND ARCHITECT.

12. VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.

13. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.

MECHANICAL KEYNOTES

1. PREPARE DUCTWORK AND EQUIPMENT LOCATION CHARTS SHOWING ALL AIR DUCTS AND EQUIPMENT LOCATIONS.

2. PROVIDE AIR DUCTWORK AND AIR EQUIPMENT LOCATION CHARTS SHOWING ALL AIR DUCTS AND EQUIPMENT LOCATIONS.

3. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

4. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.

5. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES.

6. BALANCE ALL AIR SYSTEMS TO INDICATED AIR FLOW RATES.

7. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO GRILLE, REGISTER & DIFFUSER SCHEDULE.

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13. VAV BOXES AND VALVES SHALL BE LOCATED NO MORE THAN 24 INCHES ABOVE SUSPENDED CEILINGS FOR ACCESS.

14. COORDINATE DUCT LOCATIONS WITHIN CLASSROOMS WITH CEILING PROJECT SUPPORTS.

SECOND LEVEL SHEET METAL PLAN - AREA C
REMOVE (E) AHU, (E) SF AND ALL ASSOCIATED SUPPLY AIR AND RETURN AIR DUCTWORK, ALL STEAM AND CONDENSATE PIPING ASSEMBLIES AND CONNECTIONS AND PNEUMATIC CONTROLS COMPLETE. OA DUCT TO REMAIN. PROVIDE DRAIN PAN.

PROVIDE NEW DX COOLING COIL AND NEW HGRH COIL

ROUTE NEW REFRIGERANT LINES OVERHEAD AND DOWN TO NEW COILS.

PROVIDE NEW SF MOTOR AND NEW VFD

PROVIDE NEW 4” STEAM AND 2” COND. PIPING ASSEMBLIES TO TWO (E) STEAM COILS

REMOVE EXISTING 4” STEAM AND 2” CONDENSATE PIPING ASSEMBLIES FROM (2) STEAM COILS TO FACILITATE INSTALLATION OF DX COOLING COIL AND HOT GAS REHEAT COIL INTO EXISTING AIR HANDLING UNIT.

REMOVE (2) 16” SECTIONS OF EXISTING AHU TO PROVIDE ROOM FOR MOUNTING NEW DX COOLING COIL AND HGRH COIL.

REMOVE EXISTING SUPPLY FAN MOTOR AND PREP FOR INSTALLATION OF VFD CAPABLE MOTOR.

PIPING MUD FITTING DEMO BY OTHERS

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NATURAL GAS LOAD SCHEDULE

- Existing Boiler (B-1): 7-14, 4,185 CFH
- Existing Boiler (B-2): 7-14, 4,185 CFH
- DWH: 7-14, 200 CFH
- RTU-1: 5-14, 300 CFH
- RTU-2: 5-14, 450 CFH
- RTU-15: 5-14, 200 CFH
- RTU-16: 5-14, 200 CFH

Total @ 11" W.C.: 9,880 CFH

NATURAL GAS LOAD SCHEDULE

- Backflow Preventer
- Existing Boiler (B-1): 7-14, 4,185 CFH
- Existing Boiler (B-2): 7-14, 4,185 CFH
- DWH: 7-14, 200 CFH
- RTU-1: 5-14, 300 CFH
- RTU-2: 5-14, 450 CFH
- RTU-15: 5-14, 200 CFH
- RTU-16: 5-14, 200 CFH

Total @ 11" W.C.: 9,880 CFH

NATURAL GAS METER AND BUILDING PRESSURE REGULATOR. REVISE PRESSURE OUTLET TO 11" W.C.

TOTAL CONNECTED LOAD: 9,880 CFH.

COORDINATE WITH UTILITY COMPANY TO REVISE EXISTING GAS METER ASSEMBLY AND REGULATOR AS REQUIRED FOR NEW BUILDING LOAD AND REVISED PRESSURE.

3/4" GV TO TERMINATE TO ATMOSPHERE

BUILDING SHUT-OFF VALVE

NOTES:

NATURAL GAS PIPING SYSTEM FROM BUILDING REGULATOR TO NEW EQUIPMENT IS BASED ON 9,880 CFH WITH A TOTAL FARTHEST DISTANCE RUN OF 400 FEET, 0.3 INCH WATER COLUMN LOSS, 0.6 SPECIFIC GRAVITY GAS, SCHEDULE 40 PIPING. REFER TO SCHEDULE BELOW.

BASED ON 11" W.C.

GAS PIPE SIZE (INCH)

<table>
<thead>
<tr>
<th>NOMINAL</th>
<th>ACTUAL ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>0.62</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>0.82</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1.049</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1.38</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1.61</td>
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<tr>
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<td>2 1/2&quot;</td>
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<td>4&quot;</td>
<td>4.026</td>
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<tr>
<td>6&quot;</td>
<td>6.065</td>
</tr>
<tr>
<td>8&quot;</td>
<td>7.981</td>
</tr>
</tbody>
</table>

CAPACITY (CUBIC FEET PER HOUR)

Q = (D*19.17(H/Cr*L)^.206)^(1/.381)

Q = CAPACITY (CUBIC FEET PER HOUR)
D = INSIDE PIPE DIAMETER (INCHES)
L = LENGTH OF PIPE (FEET)
H = PRESSURE DROP (INCH WATER COLUMN)
Cr = 0.6094

PROVIDE PRESSURE REGULATOR IF REQUIRED BY RTU EQUIPMENT MANUFACTURER (TYP)

3/4" GV TO TERMINATE TO ATMOSPHERE (TYP)

1 1/2" NG
2" NG

NEW DDC FLOW METER

VRF/ATU DUCT DIAGRAM

SCALE: NONE

CONDITIONED OUTSIDE AIR
SEE FLOOR PLAN FOR SIZE

AIR TERMINAL UNIT REFER TO ATU INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS

VENTILATION/LATENT DUCT
REFER TO TERMINAL UNIT SCHEDULE FOR SIZE

ONE EQUIVALENT DUCT DIAMETER

SIDE ACCESS
FILTER RACK
FLEX CONNECTION
MIXED AIR

DUCT SIZED TO MATCH CRF RETURN OPENING

VRF UNIT
SEE FLOOR PLANS AND SCHEDULES
MOUNT VRF ON NEW FLOOR STAND AT 3 FEET A.F.F.

OFFSET DUCT TRANSITION TO EXISTING DUCT SIZE

NEW SUPPLY DUCT SIZED TO MATCH EXISTING DUCT

ROUTE AND CONNECT NEW SUPPLY DUCT TO EXISTING SUPPLY DUCT AT TUNNEL WALL

ROUTE AND CONNECT NEW RETURN DUCT TO EXISTING RETURN DUCT AT TUNNEL WALL

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A

D

E

LEAVE MAXIMUM 1" GAP IN INFORMATION REFER TO EXTERIOR WALL PENTRATION

DUCT INSULATION TO BE EXTERIOR WALL DUCT PENETRATION DETAIL

CHANNEL STEEL SIDE HEIGHT ADJUST THREADED CONTINUOUS BRACKET EQUAL TO T EQUAL TO 2T

ARCHITECTURAL AND ALUMINUM CLOSURE WHERE SPECIFIED

FLOOR PLANS FOR DUCT SIZE SEE OTHER FRAMING, REFER TO MISCELLANEOUS STEEL OR TRADES

WATER MEMBRANE BY ARCH. FLASHING BY ARCH. TRADES CURB FLASHING & COUNTER ROOF CURB WITH TREATED SHEET 3" MIN ABOVE CURB 2 INCH MINIMUM OVERLAP REFER TO EXTERIOR DUCT

SHOWN ON DRAWINGS.

FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 25% OF THE TOTAL AIR FLOW OR AS

NOTE: 1. USE PIPE CLAMP FOR ALL DUCT WORK DRAWN

2. PIPE CLAMP TO CLAMP BOTH INSIDE AND OUTSIDE DUCTS TOGETHER

3. PIPE CLAMP TO BE SECURED TO EXTERIOR WALL WITH 2" GALVANIZED SILO TYPE RIVETS

NOTE:

1. USE PIPE CLAMP FOR ALL DUCT WORK DRAWN

2. PIPE CLAMP TO CLAMP BOTH INSIDE AND OUTSIDE DUCTS TOGETHER

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NOTE: 1. USE PIPE CLAMP FOR ALL DUCT WORK DRAWN

2. PIPE CLAMP TO CLAMP BOTH INSIDE AND OUTSIDE DUCTS TOGETHER

3. PIPE CLAMP TO BE SECURED TO EXTERIOR WALL WITH 2" GALVANIZED SILO TYPE RIVETS

4. PROVIDE ALL SERVICE BANDS AND CORNERS

5. PROVIDE ALL SERVICE BANDS AND CORNERS

6. PROVIDE ALL SERVICE BANDS AND CORNERS
### VRF Mode Change Unit Schedule

<table>
<thead>
<tr>
<th>UNIT IDENTIFICATION</th>
<th>PHYSICAL CHARACTERISTICS</th>
<th>ELECTRICAL</th>
</tr>
</thead>
</table>

### VRF Refrigenant Flow Schedule

<table>
<thead>
<tr>
<th>UNIT IDENTIFICATION</th>
<th>PHYSICAL CHARACTERISTICS</th>
<th>ELECTRICAL</th>
</tr>
</thead>
</table>

### VRF Condensing Unit Schedule

<table>
<thead>
<tr>
<th>UNIT IDENTIFICATION</th>
<th>PHYSICAL CHARACTERISTICS</th>
<th>ELECTRICAL</th>
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</thead>
</table>

### VRF Refrigerant Flow Schedule

<table>
<thead>
<tr>
<th>UNIT IDENTIFICATION</th>
<th>PHYSICAL CHARACTERISTICS</th>
<th>ELECTRICAL</th>
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</thead>
</table>

### VRF System Application Schedule

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>APPLICATION</th>
<th>LOCATION</th>
<th>CAPACITY</th>
</tr>
</thead>
</table>
THE UNIT WILL BE PROVIDED WITH PACKAGED DDC CONTROLS PROGRAMMED TO THE SEQUENCE OF OPERATION DESCRIBED WITHIN THE CONTRACT.

DURING THE OPTIMUM START, THE UNIT SHALL OPERATE IN A RECIRCULATION MODE.

THE VFD MODULATES THE SPEED OF THE FANS SLOWLY AND LINEARLY OVER 120 SECONDS (ADJ) TO REACH THE DUCT STATIC SET POINT.

SPECIFIC TRENDS TO BE SET UP AS DEFINED BY USER DURING SYSTEM TRAINING:

- 0.1 IN WC UNOCCUPIED HEATING SPACE TEMPERATURE SET POINT
- THE CONTROL SYSTEM ENABLES THE COOLING SYSTEM TO MAINTAIN SPACE TEMPERATURE SET POINT.

UPON A COMMAND TO START, DDC MODULATES THE EXHAUST FAN'S VFD TO THE EXHAUST FAN'S MINIMUM SPEED OVER 30 SECONDS (ADJ). THE VFD POINTS (TYP) ARE TO BE MAINTAINED FOR ONE WEEK INTERVALS AND THEN ARE TO BE ARCHIVED FOR USE FOR SYSTEM DIAGNOSTICS AND COMMISSIONING.

IF EITHER THE SUPPLY OR EXHAUST FAN OR THE ASSOCIATED VFD FAILS, THE UNIT SHALL BE SHUT DOWN. REFER TO SHUTDOWN MODE.

THE OCCUPIED COOLING SPACE TEMPERATURE SET POINT

THE SUPPLY FAN SHALL BE CONTROLLED TO MAINTAIN A DUCT STATIC SET POINT. THIS MEASUREMENT IS TAKEN FROM THE SYSTEM STATIC PRESSURE SET POINT.

INSTANTANEOUS ENERGY USAGE (KW)

TRENDING FUNCTIONS TO BE AVAILABLE FOR ALL CONTROL AND MONITORING POINTS.

THE RELIEF FAN IS CONTROLLED TO MAINTAIN THE SPACE PRESSURE SET POINT.

YEARLY ENERGY USAGE

THE COOLING SYSTEM SHALL CYCLE OFF.

THE DRIVE SHALL BE PROGRAMMED TO AUTOMATICALLY RESTART BASED ON A LOSS OF POWER OR AN ALARM CLEARED. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR THE MINIMUM AND MAXIMUM QUANTITIES OF RESTARTS SPECIFICATION FOR QUANTITIES AND THE COMMISSIONING PLAN FOR REQUIREMENTS.

HOURS (ADJ).  THE UNIT'S PERFORMANCE WILL BEмонitored TO DETERMINE IF THE EQUIPMENT IS OPERATING AS DESIGNED AND ALARMED IF THE OPERATIONAL PROBLEMS OCCUR.

THE INITIAL SET POINT BASED ON THE BALANCING PROCEDURES IDENTIFIED IN THE PROJECT SPECIFICATION.

BEFORE REQUIRING A MANUAL RESET.

THE SYSTEM SHALL MEET THE SPECIFICATIONS AS DEFINED IN THE PROJECT SPECIFICATION.

THE CONTROL SYSTEM SHALL COMMUNICATE WITH THE VARIABLE FREQUENCY DRIVE TO PROVE THE CONTROL SEQUENCE DESCRIBED.

EMERGENCY SHUTDOWN:

THE SYSTEM WOULD BE SHUT DOWN AUTOMATICALLY IN THE EVENT OF A SYSTEM FAULT OR ALARM CONDITION.

SAFETY TRIP:

THE UNIT SHALL BE SHUT DOWN IF A CONTROLLING SENSOR IS DETERMINED TO HAVE FAILED THAT WOULD DAMAGE THE EQUIPMENT OR CAUSE INAPPROPRIATE CONDITIONS IN THE SPACE.

12" = 1'-0"

IN A SAFETY TRIP, THE UNIT SHALL BE SHUT DOWN TO PROTECT THE EQUIPMENT, THE BUILDING AND PERSONNEL. NO PERSONNEL SHALL ENTER THE AREA WHERE THE UNIT IS SHUT DOWN IN THE EVENT OF A CONTROLLING SENSOR FAILURE UNLESS APPROPRIATE SAFETY RESTRAINTS HAVE BEEN INSTALLED.

CONTROL TIGHTNESS SHOWN HERE:

THEorical TEMPERATURE SET POINTS SHOWN HERE FOR THE CONTROL AND MONITORING POINTS.

THE CONTROL SYSTEM SHALL BE PROGRAMMED TO AUTOMATICALLY RESTART BASED ON A LOSS OF POWER OR AN ALARM CLEARED. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR THE MINIMUM AND MAXIMUM QUANTITIES OF RESTARTS SPECIFICATION FOR QUANTITIES AND THE COMMISSIONING PLAN FOR REQUIREMENTS.

1. THE CONTROL SYSTEM SHALL BE PROGRAMMED TO AUTOMATICALLY RESTART BASED ON A LOSS OF POWER OR AN ALARM CLEARED. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR THE MINIMUM AND MAXIMUM QUANTITIES OF RESTARTS SPECIFICATION FOR QUANTITIES AND THE COMMISSIONING PLAN FOR REQUIREMENTS.

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3. EMERGENCY SHUTDOWN:

4. THE SYSTEM WOULD BE SHUT DOWN AUTOMATICALLY IN THE EVENT OF A SYSTEM FAULT OR ALARM CONDITION.

5. SAFETY TRIP:

6. THE UNIT SHALL BE SHUT DOWN IF A CONTROLLING SENSOR IS DETERMINED TO HAVE FAILED THAT WOULD DAMAGE THE EQUIPMENT OR CAUSE INAPPROPRIATE CONDITIONS IN THE SPACE.

7. YEARLY ENERGY USAGE

8. THE COOLING SYSTEM SHALL CYCLE OFF.

9. THE DRIVE SHALL BE PROGRAMMED TO AUTOMATICALLY RESTART BASED ON A LOSS OF POWER OR AN ALARM CLEARED. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR THE MINIMUM AND MAXIMUM QUANTITIES OF RESTARTS SPECIFICATION FOR QUANTITIES AND THE COMMISSIONING PLAN FOR REQUIREMENTS.

10. HOURS (ADJ).  THE UNIT'S PERFORMANCE WILL BEмонitored TO DETERMINE IF THE EQUIPMENT IS OPERATING AS DESIGNED AND ALARMED IF THE OPERATIONAL PROBLEMS OCCUR.

11. THE INITIAL SET POINT BASED ON THE BALANCING PROCEDURES IDENTIFIED IN THE PROJECT SPECIFICATION.

12. BEFORE REQUIRING A MANUAL RESET.

13. THE SYSTEM SHALL MEET THE SPECIFICATIONS AS DEFINED IN THE PROJECT SPECIFICATION.

14. TRENDING FUNCTIONS TO BE AVAILABLE FOR ALL CONTROL AND MONITORING POINTS.

15. THE RELIEF FAN IS CONTROLLED TO MAINTAIN THE SPACE PRESSURE SET POINT.

16. INSTANTANEOUS ENERGY USAGE (KW)

17. THE SUPPLY FAN SHALL BE CONTROLLED TO MAINTAIN A DUCT STATIC SET POINT. THIS MEASUREMENT IS TAKEN FROM THE SYSTEM STATIC PRESSURE SET POINT.

18. THE COOLING SYSTEM SHALL CYCLE OFF.

19. THE CONTROL SYSTEM SHALL COMMUNICATE WITH THE VARIABLE FREQUENCY DRIVE TO PROVE THE CONTROL SEQUENCE DESCRIBED.

20. EMERGENCY SHUTDOWN:

21. THE SYSTEM WOULD BE SHUT DOWN AUTOMATICALLY IN THE EVENT OF A SYSTEM FAULT OR ALARM CONDITION.

22. SAFETY TRIP:

23. THE UNIT SHALL BE SHUT DOWN IF A CONTROLLING SENSOR IS DETERMINED TO HAVE FAILED THAT WOULD DAMAGE THE EQUIPMENT OR CAUSE INAPPROPRIATE CONDITIONS IN THE SPACE.
THE UNIT WILL BE PROVIDED WITH PACKAGED DDC CONTROLS PROGRAMMED TO THE SEQUENCE OF OPERATION DESCRIBED WITHIN THE CONTRACT.

TRENDING FUNCTIONS TO BE AVAILABLE FOR ALL CONTROL AND MONITORING POINTS.

1. OCCUPIED HEATING SPACE TEMPERATURE SET POINT TRENDS ARE TO BE MAINTAINED FOR ONE WEEK INTERVALS AND THEN ARE TO BE ARCHIVED FOR USE FOR SYSTEM DIAGNOSTICS AND RS.

2. UPON REACHING MINIMUM SPEED, THE DDC SYSTEM ENERGIZES THE EXHAUST FAN.

3. PROVIDE TRENDS TO SUPPORT COMMISSIONING ACTIVITIES AS DEFINED BY COMMISSIONING PLAN. REFER TO COMMISSIONING SPECIFICATIONS.

4. ALL POINTS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS WILL BE DISPLAYED ON THE USER'S GRAPHIC INTERFACE. ALARMS AND OTHER SYSTEM FUNCTIONALITY OF PRE AND POST OCCUPANCY VENTILATION MODE SHALL BE ABILITY TO BE DEACTIVATED THROUGH THE USER GRAPHICAL INTERFACE.

5. DDC MONITORS AND DISPLAYS THE AIR FILTER PRESSURE DROPS AND ISSUE A DIRTY FILTER ALARM WHEN THE DIFFERENTIAL PRESSURE REACHES A HIGH LIMIT.

6. THE UNIT HEATING DISCHARGE AIR TEMPERATURE SET POINT FOR WARMUP MAY RESET UP TO A HIGH LIMIT OF 90 DEGREES (⁰F).

7. THE DX CONTROL SYSTEM MODULATES THE HOT GAS REHEAT COIL TO MAINTAIN SPACE PRESSURE SET POINT.

8. THE SUPPLY FAN SHALL BE CONTROLLED TO MAINTAIN A DUCT STATIC SET POINT. THIS MEASUREMENT IS TAKEN FROM THE SYSTEM STATIC PRESSURE.

9. THE RELIEF FAN IS CONTROLLED TO MAINTAIN THE SPACE PRESSURE SET POINT.

10. IF SMOKE IS DETECTED IN THE AIRSTREAM BY A DUCT SMOKE DETECTOR OR THE FIRE ALARM ZONE MODULE INDICATES A ZONE ALARM, THE UNIT SHALL COMMENCE A SHUTDOWN MODE UPON A COMMAND TO START, DDC MODULATES THE EXHAUST FAN'S VFD TO THE EXHAUST FAN'S MINIMUM SPEED OVER 30 SECONDS. THE UNIT WILL BE COMMANDED TO START PRIOR TO SCHEDULED OCCUPANCY TO MEET OCCUPIED HEATING OR COOLING SET POINTS BY SCHEDULED START UP MODE.

11. WHEN THE OUTSIDE ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, OUTSIDE AIR WILL STAGE AS THE FIRST STAGE OF COOLING.

12. THE CONTROL SYSTEM ENABLES THE GAS HEATING SYSTEM TO MAINTAIN SPACE TEMPERATURE SET POINT.

13. DURING THE OPTIMUM START, THE UNIT SHALL OPERATE IN A RECIRCULATION MODE.
The control system enables the cooling system to maintain space temperature set points.

Occupied Cooling Space Temperature Set Point

Unoccupied Cooling Space Temperature Set Point

55°F

The unit will be provided with packaged DDC controls programmed to the sequence of operation described within the contract.

Dehumidification Dew Point Set Point

55°F

The unit.

All field wired or installed devices will be procured and installed by the contractor. Devices may be provided by the unit.

All hand points identified in the construction documents will be displayed on the user's graphic interface. Alarms and other system notifications will be reported to system users. Provide all necessary integration from packaged controller to facility systems.

The DX control system modulates the hot gas reheat coil to maintain the space temperature set point.

Off - Auto (HOA) switches normally remain in the Auto position and the Hand and Off positions are used for maintenance of the system.

Economizer Mode

Cooling Mode

General Sequence of Operation

Approved Dead Bands and time delays shall be used to prevent short cycling situations. All set points, dead bands, and time delay intervals described in sequence shall be adjustable by system operators.

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Existing Domestic Water Heater Control Diagram

The contractor shall coordinate and provide all additional components or labor for a complete and operational system. Contractor shall coordinate and provide all additional components or labor for a complete and operational system. Contractor shall coordinate and provide all additional components or labor for a complete and operational system. Contractor shall coordinate and provide all additional components or labor for a complete and operational system.

The building is in its normal occupied mode. Pump or heat exchanger may sometimes be in maintenance mode. Both are resettable on the BAS.

The Domestic Hot Water pump and heat exchanger system runs whenever the system temperature is 120°F and alarms if the water temperature exceeds the high temperature alarm setpoint. Setpoint is initially set at 130°F (adjustable).

DDC generates high DHW temperature alarm at 130°F (adjustable) and low DHW temperature alarm at 105°F (adjustable) alarms to BAS.

DDC monitors the building Domestic water heater supply temperature and contains control of the temperature. A pump is commanded off or commanded off and in alarm, DDC does not totalize run time hours for BAS use. If a pump is commanded to run and the status is sensed properly within 3 seconds (adjustable), status is not appropriate, DDC provides the BAS with a critical pump failure alarm. When the pump is commanded to stop, and after a delay of 120 seconds (adjustable), status is not appropriate, DDC provides the BAS with a critical pump failure alarm.

All pump motors are monitored with current sensors. When the pump is manually commanded off at the front end, the building is in its normal occupied mode. Pump or heat exchanger may sometimes be in maintenance mode. Both are resettable on the BAS.

Existing AHU DX Coil Control

Existing AHU DX coil control
FAN

INFER BUT NOT LIMITED TO THE FOLLOWING:
- COMPRESSOR SUCTION
- EXPANSION VALVE
- 55% RH
- COMPRESSOR STATUS
- VRF CASSETTE (DUCTED OR NON DUCTED)
- HUMIDITY SET POINT
- EMERGENCY HEAT
- 70
- OIL RETURN MODE

THE FAN IS TO BE DEACTIVATED DURING A DEFROST MODE TO LIMIT SPACE TEMPERATURE IMPACTS.

ON COST ASSOCIATED WITH THE
THE UNIT SHALL HAVE SCHEDULING FUNCTIONALITY THROUGH THE BUILDING AUTOMATION SYSTEM.

CONTROLLED
VENTILATION SET POINT
VENTILATION / LATENT CONTROL

THE VRF SYSTEM WILL BE PROVIDED WITH A PACKAGED CONTROL SYSTEM. THE PACKAGED CONTROL SYSTEM WILL BE INTEGRAL

THE CONTRACTOR COORDINATES AND PROVIDES ALL COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT

FAN SPEED
INDOOR FAN COIL IN ORDER TO SIMPLIFY BAS INTEGRATION AND VRF

THE VRF PACKAGE CONTROL SYSTEM OPERATES THE CENTRAL CONDENSING UNIT AND HEAT RECOVERY BOXES TO MAINTAIN

DEFROST MODE
HEATING SET POINT
DISCHARGE AIR TEMP

THE VRF (CASSETTE) POINTS TO BE MAPPED TO
BUILDING AUTOMATION SYSTEM

- DI
- AI
- AO
- TEMP
- SPEED

UNIT CONTROLLER
COMMUNICATED THROUGH A BACNET INTERFACE TO THE INDIVIDUAL VRF CASSETTE

COMMUNICATE WITH INDIVIDUAL AIR TERMINAL UNITS FOR

COOLING MODE.

THE MECHANICAL
DETECTOR OF THE
ALARM WHEN THE
SPACE TEMP
EXCEEDS THE
SCHEDULED
VALUE.

NOTE
VRF (CASSETTE) CONTROLLER BY EQUIPMENT MANUFACTURER

NOT TO SCALE
1. REFER TO DRAWING E001 AND E002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

2. ALL LIGHTS AND LIGHTING DEVICES SHOWN CROSS HATCHED SHALL BE REMOVED. REMOVE ALL ASSOCIATED WIRING, SWITCHES AND CONTROLS BACK TO SOURCE.

3. ALL ELECTRICAL ITEMS BEING REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE BY OWNER.

4. ALL ELECTRICAL OUTLETS, DEVICES, CONDUIT AND WIRING, ETC., SHOWN CROSS HATCHED SHALL BE REMOVED BACK TO SOURCE OR UPSTREAM JUNCTION BOX.

5. CONTRACTOR SHALL NOT ABANDON EXISTING WIRING WITHIN EXISTING WALLS OR CEILINGS TO REMAIN. ALL SUCH ELECTRICAL ITEMS SHALL BE REMOVED.

6. MAINTAIN OPERATION OF ALL EXISTING SYSTEMS DURING CONSTRUCTION. ANY REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.

7. 'R' INDICATES EXISTING EQUIPMENT TO BE RELOCATED. CAREFULLY DISCONNECT AND STORE IN A SAFE PLACE UNTIL REINSTALLATION.

8. WHERE SAWCUTTING IS NOTED, ELECTRICAL CONTRACTOR SHALL PROVIDE COST TO PROVIDE XRAY/GPR TO LOCATE CONDUITS IN SLAB.

9. EXISTING CIRCUIT NUMBERS INDICATED ARE FOR INFORMATION WHICH SHOULD BE VERIFIED PRIOR TO WORK.
ELECTRICAL DEMOLITION GENERAL NOTES

1. REFER TO DRAWING E001 AND E002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

2. ALL LIGHTS AND LIGHTING DEVICES SHOWN CROSS HATCHED SHALL BE REMOVED. REMOVE ALL ASSOCIATED WIRING, SWITCHES AND CONTROLS BACK TO SOURCE.

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8. WHERE SAWCUTTING IS NOTED, ELECTRICAL CONTRACTOR SHALL PROVIDE COST TO PROVIDE XRAY/GPR TO LOCATE CONDUITS IN SLAB.

9. EXISTING CIRCUIT NUMBERS INDICATED ARE FOR INFORMATION WHICH SHOULD BE VERIFIED PRIOR TO WORK.

ELECTRICAL DEMOLITION KEYNOTES

- ED1 EXISTING MAIN SWITCHBOARD TO BE REMOVED AND REPLACED. EXISTING FEEDER TO BE REFERED FROM NEW MAIN SWITCHBOARD. REFER TO DRAWING E001 FOR POWER TO NEW BUILDING LIGHTS.

- ED4 ED5 EXISTING PAD-MOUNTED UTILITY TRANSFORMER TO REMAIN IN PLACE AND OPERATIONAL.
1. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

2. REFER TO DRAWING E601 & E602 FOR LIGHTING FIXTURE SCHEDULE AND CONTROLS INFORMATION.

3. THE CONTRACTOR SHALL PROVIDE A 'HOT' WIRE TIED AHEAD OF LOCAL SWITCHING AND THE LIGHTING CONTROL PANEL RELAYS FOR THE LEADS TO ALL NIGHT LIGHTS, EXIT LIGHTS, EMERGENCY BATTERY PACKS AND EMERGENCY UL924 RELAYS AND EXIT LIGHTS.

4. THE CONTRACTOR SHALL SUBMIT A FULL SET OF OCCUPANCY CONTROL LOCATION DRAWINGS TO THE A/E PRIOR TO PURCHASE OR INSTALLATION. OCCUPANCY CONTROL LOCATIONS AND QUANTITIES SHALL BE BASED ON THE MANUFACTURER'S RECOMMENDATIONS. THE LIGHTING PLANS SHOW DESIGN INTENT ONLY AND DO NOT REFLECT EVERY MANUFACTURER PERMUTATIONS.

5. OCCUPANCY CONTROLS SHALL BE WIRED SUCH THAT ALL GENERAL ROOM LIGHTING IS CONTROLLED.

6. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

7. IN GENERAL, DEVICES AT LOWER HEIGHTS SHALL BE STACKED DIRECTLY BELOW DEVICES AT HIGHER ELEVATIONS. PROVIDE CONDUIT OFFSET AS NECESSARY.
LIGHTING GENERAL NOTES
1. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWING E601 & E602 FOR LIGHTING FIXTURE SCHEDULE AND CONTROLS INFORMATION.
3. THE CONTRACTOR SHALL PROVIDE A 'HOT' WIRE TIED AHEAD OF LOCAL SWITCHING AND THE LIGHTING CONTROL PANEL RELAYS FOR THE LEADS TO ALL NIGHT LIGHTS, EXIT LIGHTS, EMERGENCY BATTERY PACKS AND EMERGENCY UL924 RELAYS AND EXIT LIGHTS.
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LIGHTING KEYNOTES
- L1: EXISTING FACADE LIGHTING TO BE REMOVED AND REPLACED WITH NEW LIGHTING AS INDICATED. REMOVE AND REPLACE EXISTING LIGHTING WITH NEW LIGHTING. ROUTE ALL NEW CONDUIT CONCEALED. TIE INTO EXISTING LIGHTING CONTROLS FOR ALL NEW EXTERIOR BUILDING LIGHTS.
1. Refer to drawing E001 and E002 for electrical legend, abbreviations and general notes.

2. Refer to drawing E601 & E602 for lighting fixture schedule and controls information.

3. The contractor shall provide a 'hot' wire tied ahead of local switching and the lighting control panel relays for the leads to all night lights, exit lights, emergency battery packs and emergency UL924 relays and exit lights.

4. The contractor shall submit a full set of occupancy control location drawings to the A/E prior to purchase or installation. Occupancy control locations and quantities shall be based on the manufacturer's recommendations. The lighting plans show design intent only and do not reflect every manufacturer permutation.

5. Occupancy controls shall be wired such that all general room lighting is controlled.

6. Provide a dedicated neutral conductor for each branch circuit.

7. In general, devices at lower heights shall be stacked directly below devices at higher elevations. Provide conduit offset as necessary.
LIGHTING GENERAL NOTES

1. Refer to Drawing E001 and E002 for electrical legend, abbreviations and general notes.

2. Refer to Drawing E601 & E602 for lighting fixture schedule and controls information.

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5. Occupancy controls shall be wired such that all general room lighting is controlled.

6. Provide a dedicated neutral conductor for each branch circuit.

7. In general, devices at lower heights shall be stacked directly below devices at higher elevations. Provide conduit offset as necessary.

LIGHTING KEYS NOTES

- L1: Existing facade lighting to be removed and replaced with new lighting as indicated. Remove and replace existing floodlights and replace with new medium pressure sodium floodlights. Route all new conduit concealed. Tie into existing lighting controls for all new exterior building lights.
LIGHTING GENERAL NOTES

1. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

2. REFER TO DRAWING E601 & E602 FOR LIGHTING FIXTURE SCHEDULE AND CONTROLS INFORMATION.

3. THE CONTRACTOR SHALL PROVIDE A 'HOT' WIRE TIED AHEAD OF LOCAL SWITCHING AND THE LIGHTING CONTROL PANEL RELAYS FOR THE LEADS TO ALL NIGHT LIGHTS, EXIT LIGHTS, EMERGENCY BATTERY PACKS AND EMERGENCY UL924 RELAYS AND EXIT LIGHTS.

4. THE CONTRACTOR SHALL SUBMIT A FULL SET OF OCCUPANCY CONTROL LOCATION DRAWING SUBMITTALS TO THE A/E PRIOR TO PURCHASE OR INSTALLATION. OCCUPANCY CONTROL LOCATIONS AND QUANTITIES SHALL BE BASED ON THE MANUFACTURER'S RECOMMENDATIONS. THE LIGHTING PLANS SHOW DESIGN INTENT ONLY AND DO NOT REFLECT EVERY MANUFACTURER PERMUTATIONS.

5. OCCUPANCY CONTROLS SHALL BE WIRED SUCH THAT ALL GENERAL ROOM LIGHTING IS CONTROLLED.

6. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

7. IN GENERAL, DEVICES AT LOWER HEIGHTS SHALL BE STACKED DIRECTLY BELOW DEVICES AT HIGHER ELEVATIONS. PROVIDE CONDUIT OFFSET AS NECESSARY.
LIGHTING GENERAL NOTES

1. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

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LIGHTING KEYNOTES

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EXISTING FACADE LIGHTING TO BE REMOVED AND REPLACED WITH NEW LIGHTING AS INDICATED. REMOVE AND REPLACE EXISTING ... NEW LIGHTING. ROUTE ALL NEW CONDUIT CONCEALED. TIE INTO EXISTING LIGHTING CONTROLS FOR ALL NEW EXTERIOR BUILDING LIGHTS.
LIGHTING GENERAL NOTES

1. Refer to drawings E001 and E002 for electrical legend, abbreviations and general notes.

2. Refer to drawings E601 & E602 for lighting fixture schedule and controls information.

3. The contractor shall provide a 'hot' wire tied ahead of local switching and the lighting control panel relays for the leads to all night lights, exit lights, emergency battery packs and emergency UL924 relays and exit lights.

4. The contractor shall submit a full set of occupancy control location drawing submittals to the A/E prior to purchase or installation. Occupancy control locations and quantities shall be based on the manufacturer’s recommendations. The lighting plans show design intent only and do not reflect every manufacturer permutation.

5. Occupancy controls shall be wired such that all general room lighting is controlled.

6. Provide a dedicated neutral conductor for each branch circuit.

7. In general, devices at lower heights shall be stacked directly below devices at higher elevations. Provide conduit offset as necessary.

LIGHTING KEYNOTES

- #1 Existing facade lighting to be removed and replaced with new lighting as indicated. Remove and replace existing lighting with new lighting. Route all new conduit concealed. Tie into existing lighting controls for all new exterior building lights.
PROVIDE PATHWAYS AND ROUGH ALARM SYSTEM TO EACH DETECTORS ASSOCIATED WITH AIR HANDLING UNITS. PROVIDE THE ABBREVIATIONS AND GENERAL NOTES.

REFER TO DRAWING E401 & E402 FOR ELECTRICAL SINGLE LINE DIAGRAMS.

ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY DRAWINGS FOR LOCATIONS AND QUANTITIES. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY DRAWINGS FOR LIFE SAFETY DAMPER LOCATIONS AND DUCT COMMUNICATION MODULES, POWER, AND ALL NECESSARY WIRING.

FURNISH AND INSTALL DUCT SMOKE DETECTORS ASSOCIATED WITH AIR HANDLING EQUIPMENT AND LIFE SAFETY DAMPERS, FIRE ALARM HANDLING EQUIPMENT AND LIFE SAFETY DAMPERS, FIRE ALARM.

POWER & AUXILIARY GENERAL NOTES

1. REFER TO PLUMBING DRAWINGS FOR TRAP PRIMERS CIRCUIT ELECTRONIC TRAP PRIMERS TO NEARBY 120V RECEPTACLE.
2. REFER TO FIRE PROTECTION DRAWINGS AND DETAILS FOR LOCATIONS AND PRECISE MOUNTING HEIGHT OF ELECTRICAL DEVICES FOR ARCHITECTURAL PLANS.
3. IN GENERAL, DEVICES AT LOWER HEIGHTS SHALL BE STACKED DIRECTLY BELOW DEVICES AT HIGHER ELEVATIONS. PROVIDE CONDUIT OFFSET AS NECESSARY COSTS WITH HIS BID.
4. THE PANEL.
5. REFER TO STRUCTURAL DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH EXISTING STRUCTURAL ELEMENTS.
6. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, AS INDICATED.
7. REFER TO MECHANICAL FLOOR PLANS AND TEMPERATURE CONTROL COMMUNICATION MODULES, POWER, AND ALL NECESSARY WIRING.
8. REFER TO DRAWINGS FOR DATA DEVICES, SECURITY DEVICES, DOOR ACCESS DEVICES, ETC.
9. REFER TO DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH EXISTING STRUCTURAL ELEMENTS.
10. PROVIDE 120V CIRCUIT TO FIRE ALARM EXTENDER PANELS.
11. Opaque glass shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions ... are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.
12. IN GENERAL, DEVICES AT LOWER HEIGHTS SHALL BE STACKED DIRECTLY BELOW DEVICES AT HIGHER ELEVATIONS. PROVIDE CONDUIT OFFSET AS NECESSARY COSTS WITH HIS BID.
13. PROVIDE CONNECTION TO FIRE ALARM FLOW AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM FLOW AND TAMPER SWITCHES AND RECEPTACLES INSTALLED ABOVE COUNTERTOPS SHALL BE THE SAME HEIGHT.
14. THE PANEL.
15. PROVIDE PATHWAYS AND ROUGH FOR LOCATIONS AND QUANTITIES. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY DRAWINGS FOR LOCATIONS AND QUANTITIES. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY DRAWINGS FOR LOCATIONS AND QUANTITIES.
16. REFER TO STRUCTURAL DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH EXISTING STRUCTURAL ELEMENTS.
POWER & AUXILIARY GENERAL NOTES

1. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWING E401 & E402 FOR ELECTRICAL SINGLE LINE DIAGRAMS.
3. EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONNECTED BACK TO THE PANEL.
4. PROVIDE 120V CIRCUIT TO FIRE ALARM EXTENDER PANELS.
5. COORDINATE ALL DEVICE MOUNTING LOCATIONS, HEIGHTS, AND SPACINGS WITH ARCHITECTURAL FLOOR PLANS AND ELEVATIONS. BIDDERS SHALL EXAMINE ARCHITECTURAL DRAWINGS TO INCLUDE ANY NECESSARY COSTS WITH HIS BID.
6. IN GENERAL, DEVICES AT LOWER HEIGHTS SHALL BE STACKED DIRECTLY BELOW DEVICES AT HIGHER ELEVATIONS. PROVIDE CONDUIT OFFSET AS NECESSARY.
7. COORDINATE MOUNTING HEIGHT OF DEVICES ABOVE MILL WORK WITH ARCHITECTURAL PLANS.
8. COORDINATE FINAL MOUNTING HEIGHT OF ELECTRICAL DEVICES FOR UNIT APPLIANCES WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
9. SWITCHES AND RECEPTACLES INSTALLED ABOVE COUNTERTOPS SHALL BE THE SAME HEIGHT.
10. FURNISH AND INSTALL DUCT SMOKE DETECTORS ASSOCIATED WITH AIR HANDLING EQUIPMENT AND LIFE SAFETY DAMPERS, FIRE ALARM COMMUNICATION MODULES, POWER, AND ALL NECESSARY WIRING. REFER TO MECHANICAL FLOOR PLANS AND TEMPERATURE CONTROL DRAWINGS FOR LIFE SAFETY DAMPERS LOCATIONS AND DUCT DETECTORS ASSOCIATED WITH AIR HANDLING UNITS. PROVIDE THE QUANTITY OF DUCT DETECTORS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLED DUCT CONFIGURATION.
11. REFER TO FIRE PROTECTION DRAWINGS AND DETAILS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM TO EACH.
12. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY DRAWINGS FOR DATA DEVICES, SECURITY DEVICES, DOOR ACCESS DEVICES, ETC. FOR LOCATIONS AND QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE PATHWAYS AND ROUGH-INS AS INDICATED ON TECHNOLOGY DRAWINGS.
13. REFER TO STRUCTURAL DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH EXISTING STRUCTURAL ELEMENTS.
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13. CIRCUIT ELECTRONIC TRAP PRIMERS TO NEARBY 120V RECEPTACLE CIRCUIT. REFER TO PLUMBING DRAWINGS FOR TRAP PRIMER LOCATIONS.
1. REFER TO DRAWING E001 AND E002 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWING E401 & E402 FOR ELECTRICAL SINGLE LINE DIAGRAMS.
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8. COORDINATE FINAL MOUNTING HEIGHT OF ELECTRICAL DEVICES FOR UNIT APPLIANCES WITH MANUFACTURER’S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
9. SWITCHES AND RECEPTACLES INSTALLED ABOVE COUNTERTOPS SHALL BE THE SAME HEIGHT.
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15. REFER TO STRUCTURAL DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH EXISTING STRUCTURAL ELEMENTS.
20 16" SECTIONS OF EXISTING AHU TO BE REMOVED FOR MOUNTING NEW DX COOLING COIL AND HGRH COIL.

EXISTING SUPPLY FAN MOTOR TO BE REMOVED. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE.

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

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1. PROVIDE CUSTOM LABELING OF CONTROL STATIONS.

2. PROVIDE PHOTO CELL WHEN APPLICABLE AND SHOWN ON PLANS.

3. REFER TO SWITCH DESIGNATION*.

4. REFER TO SPECIFICATION 26 09 43 FOR SEQUENCE OF OPERATION AND ADDITIONAL REQUIREMENTS. (QTY PER PLANS)

5. PACKS TO MEET TYPE AND NUMBER

ZONE 2

- ZONE 2 (Z2): ON/OFF/RAISE/LOWER
- ZONE 3 (Z3): ON/OFF/RAISE/LOWER
- ZONE 4 (Z4): ON/OFF/RAISE/LOWER
- ZONE 5 (Z5): ON/OFF/RAISE/LOWER

ZONE 1

- ZONE 1 (Z1): ON/OFF/RAISE/LOWER

ZONE ROOM DIGITAL CONTROLS WIRING DIAGRAM

MULTI-ZONE ROOM DIGITAL CONTROLS WIRING DIAGRAM

LOW VOLTAGE CONTROL STATION SWITCH DESIGNATION*

SINGLE ZONE ROOM DIGITAL CONTROLS WIRING DIAGRAM

NOTE:

- PROVIDE ADDITIONAL POWER/RELAY PACK.
- CONTRACTOR'S RESPONSIBILITY TO SHARE THIS SPECIFICATION WITH THE MANUFACTURER IN ORDER TO PROVIDE COMPLETE INFORMATION.
- PROVIDE THE REQUIRED NUMBER OF BUTTONS TO ACHIEVE FUNCTIONALITY FOR EACH ZONE.