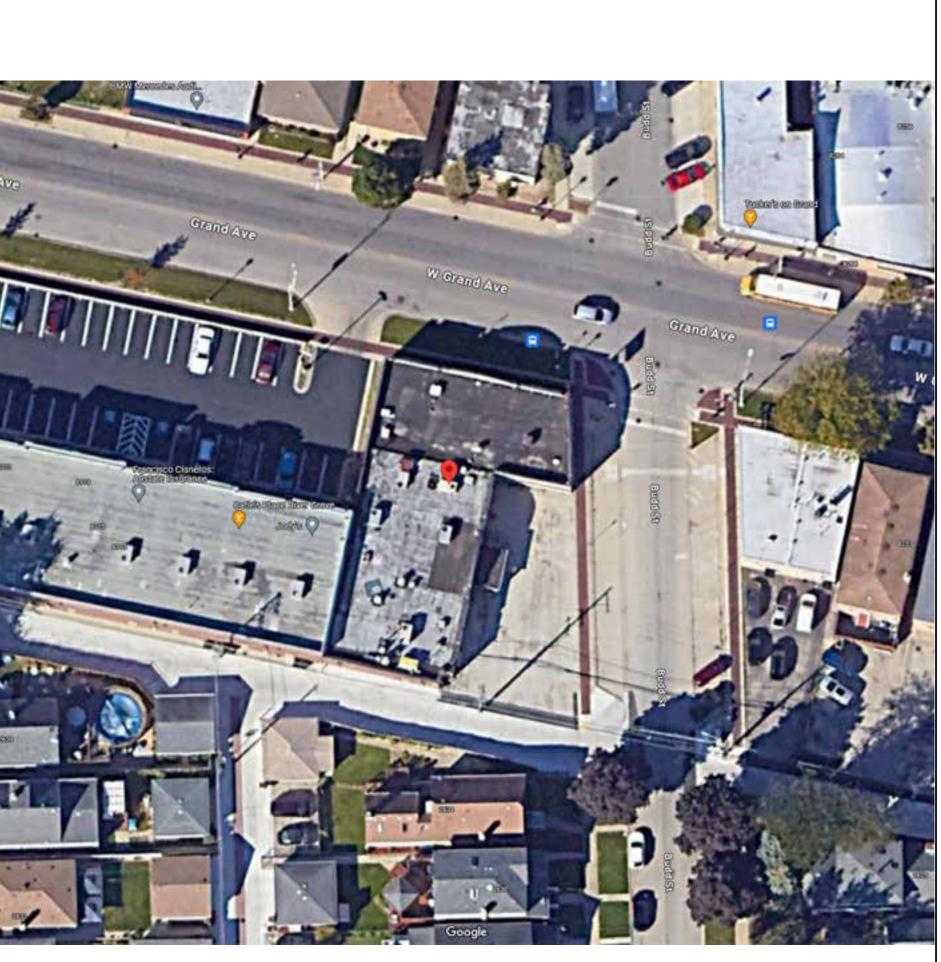
# River Grove Public Library - Remodel (DEMOLITION PHASE)

8301 Grand Avenue | River Grove, IL 60171

Satelite

Location



|  | General | Note |
|--|---------|------|
|--|---------|------|

. General Notes supercede all similar notes in drawings by Architect or other disciplines.

4. General Contractor is to coordinate all work with drawings, specifications and project manual.

2. Do Not scale drawings, dimensions shall govern. Large scale details shall govern over small scale details. 3. Wherever General Notes, Legends and other discriptions appear on one drawing they are applicable to all drawings of the same type.

5. General Contractor shall provide all labor, materials and equipment as required to perform the work of this project.

preceding with the installation of any or all works. Any discrepancy between the Architect's and Engineer's drawings, specifications, dimensions and conditions will be brought to the attention of the Architect and Owner for clarification prior to proceeding with the related work. Any work installed in conflict with the Architectural and Engineering drawings shall be corrected by the General Contractor at the General Contractor's own expense and at no additional expense to the Architect or Owner.

General Contractor is to verify all dimensions shown on Site Plans prior to construction of work. Should there be any discrepancy between architectural Site Plan and Plat of Survey (if included in set), the survey dimensions shall take precedence. B. General Contractor shall immediately notify the Architect upon discovering required interior and exterior repairs not called out in construction

General Contractor shall immediately notify the Architect of any unforeseen job conditions which might affect project costs. Extra work and/or

costs must be approved in writing prior to construction of such work. 0. All materials and methods of installation shall conform to the manufacturers specifications and installation instructions for its intended use.

work including those for dust and noise control and for the legal and proper disposal of all demolition and construction materials. In case of

General Contractor shall supervise and direct the work using His/Her best skill and attention. General Contractor shall be solely responsible for and have complete charge of construction means, methods, techinques, sequences, procedures ad personnel safety programs for coordinating all portions of the scope of this work. Neither the Architect not the Owner or their Agents will assume any of these reponsibilities and they shall be "Held Harmless" from any liabilities that may arise as a result of the General Contractor's failure, neglect or omission to

properly uphold these responsibilities as described herein and other documents of His/ Her contract. 4. General Contractor shall include the following in His/Her base bid: any and all work needing to be done after hours or on weekends, any work

General Contractor shall coordinate with the Architect and Owner for a location at which to store construction materials and delivered items. Upon receipt of all delivered items including construction materials, the General Contractor shall assume full responsibility for all such items

6. General Contractor shall insure that all existing or new interior and exterior drains on site shall not be used for construction clean up or

All finished partitions are dimensioned from finished face of wall to finished face of wall, unless noted otherwisse. General Contractor shall VIF all finished dimensions called out in drawings.

18. See standard Architectural symbols for symbols used on Architectural drawings. See Engineering drawings for Engineerings symbols. 9. General Contractor shall be responsible for coordination of Subcontractors for layout and installation of mechanical, electrical, plumbing and

all other equipment to insure compliance with building codes and to avoid interference with all existing and proposed building components. 20. After the job is in progress, "Change Orders" must be approved by the Architect and Owner in writing prior to starting the work to be changed. Work performed without the proper advance approval may not be considered for payment.

21. Details marked "Typical" or "typ." shall apply in all similar cases unless noted otherwise on the drawing.

22. No substitution or deviations from the drawings or specifications shall be allowed without prior written approval from the Architect and

3. For the entire duration of demolition and construction, General Contractor shall provide ongoing and conprehensive pedestrian protection in accordance with OSHA requirements and guidelines and all local and federal laws to insure public safety. 4. Care will be given to the protection of the existing utility lines during demolition and new construction.

25. Contractors shall minimize noise and congestion as much as possible during demolition so as to not to interfere with other dwellings in the 🤊 unit under construction or other adjacent structures.

26. Disconnection of and/or relocation of existing equipment shall be at such times that operations of the existing facility will be unaffected. 27. The Owner shall remove all portable equipment to be retained before the Contractor starts work.

28. Where mechanical, plumbing and electrical work are removed, all lines conduits, ducts, etc. shall be capped within the walls, above finish ceiling or below finished floor line. See mechanical, plumbing and electrical drawings for additional information.

29. General Contractor shall be responsible for maintaining all exits such that they are clear and in fully operable condition during construction. 30. General Contractor shall provide protection around interior and exterior surfaces and passages corresponding to the path of travel for the removal of rubbish from the construction site.

# **Drawing Index**

Sheet Number

Cover Sheet

Demolition Plan

**Demolition Roof Plan** 

**HVAC Specifications** 

Demolition Reflected Ceiling Plan

**HVAC** First Floor Demolition Plan

**HVAC Roof Demolition Plan** 

Electrical Specifications

DP1.1 Plumbing Demolition Floor Plan

HVAC Symbols, Abbrevations and Notes

Electrical Symbols, Abbrevations and Notes

Plumbing Notes, Symbols and Abbreviations

Electrical Demolition Lighting Floor Plan

Electrical Demolition Power Floor Plan Electrical Demolition Power Roof Plan

Demolition Exterior Elevations

Remodel of an existing grocery store, to a public library. Work to include but not limited to: Major Demolition of all the existing kitchen / food service related items (sinks, reach-in coolers, walk-in coolers, stainless steel wall coverings etc) Major Demoltion of existing roof top RTU's (reduction from 7 units to 3 units)

**Project Description** 

Removal of all existing floor tiles

Major demolition of existing exterior vestibule Minor demolition of existing low voltage wiring and conduits 110 W Park Ave - Unit G, Elmhurst, Illinois 60126 p: 708-277-9086

e: info@daegroup.net

# **Applicable Building Codes**

2015 International Building Code Mechanical Code: 2015 International Mechanical Code Electrical Code: 2014 National Electrical Code Plumbing Code: 2014 Illinois Plumbing Code 2015 International Fire Code Energy Code: 2015 International Energy Conservation Code Accessibilty Code: 2018 Illinois Accessibilty Code Helath Code: Illinois Public Health Code

**Library Board of** 

Demolition Bid/Permit Set

# **Building and Zoning Information**

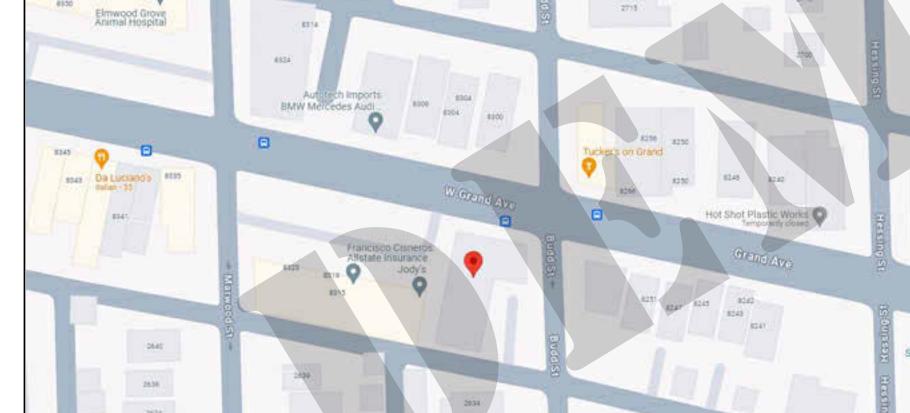
Zoning District: Max. Elevation: Construction Type: Area of Work: Occupancy Type:

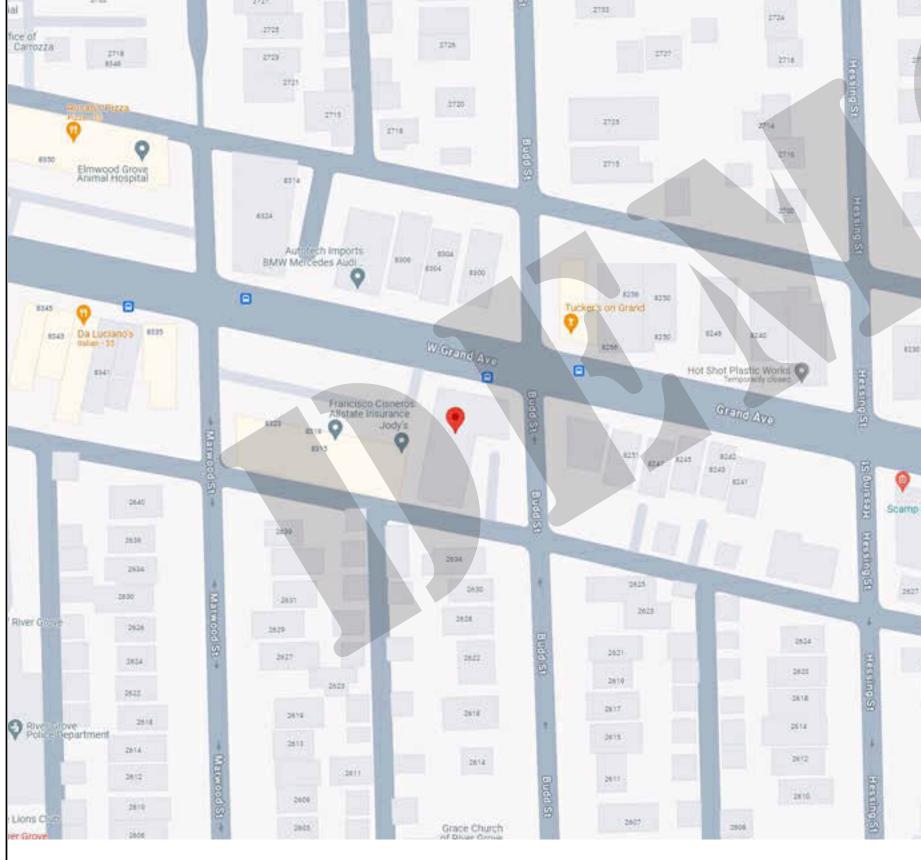
[Enter total occupancy number here]

Cover Sheet

**River Grove Public Library - Remodel** 

8301 Grand Avenue | River Grove, IL 60171



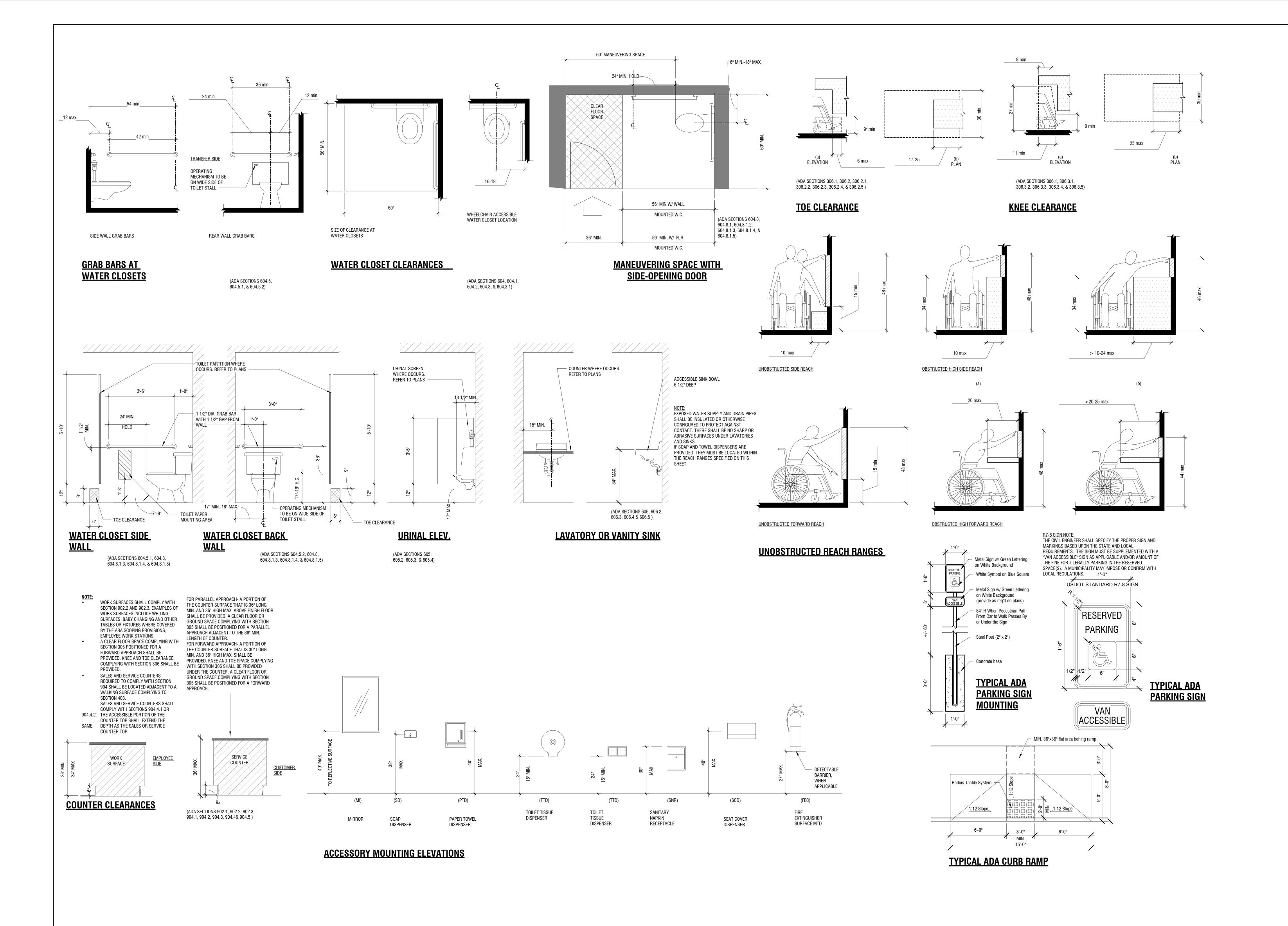


**Architect's Certification** 

I hereby certify that these plans were prepared under my direction and to the best of my knowledge and belief conform to the codes and ordinances of: River Grove, IL

09/26/2024

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KIRIL GEORGIEV IVANOV LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

# Library Board of Trustees

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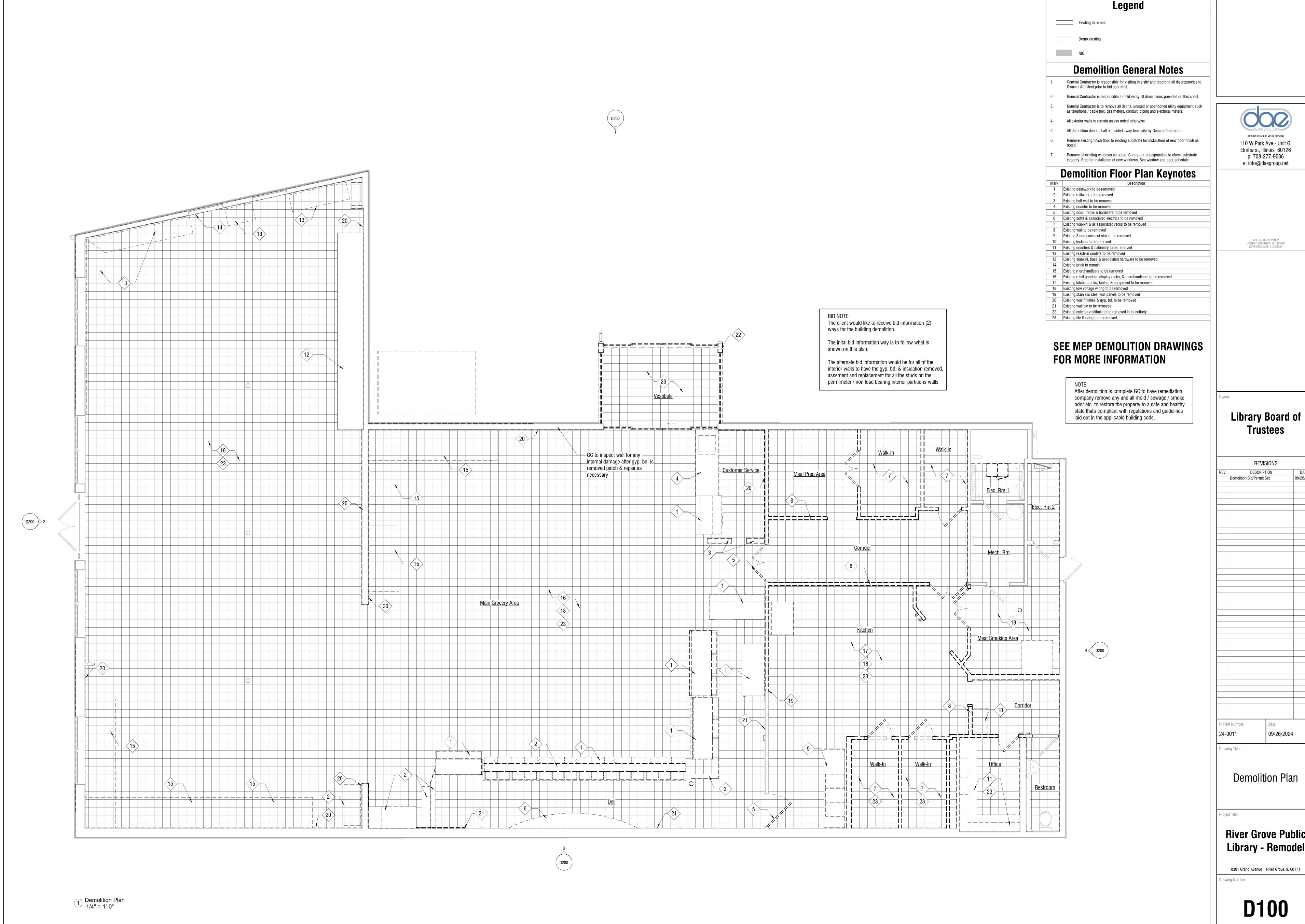
Accessibility Guidelines

Project Tit

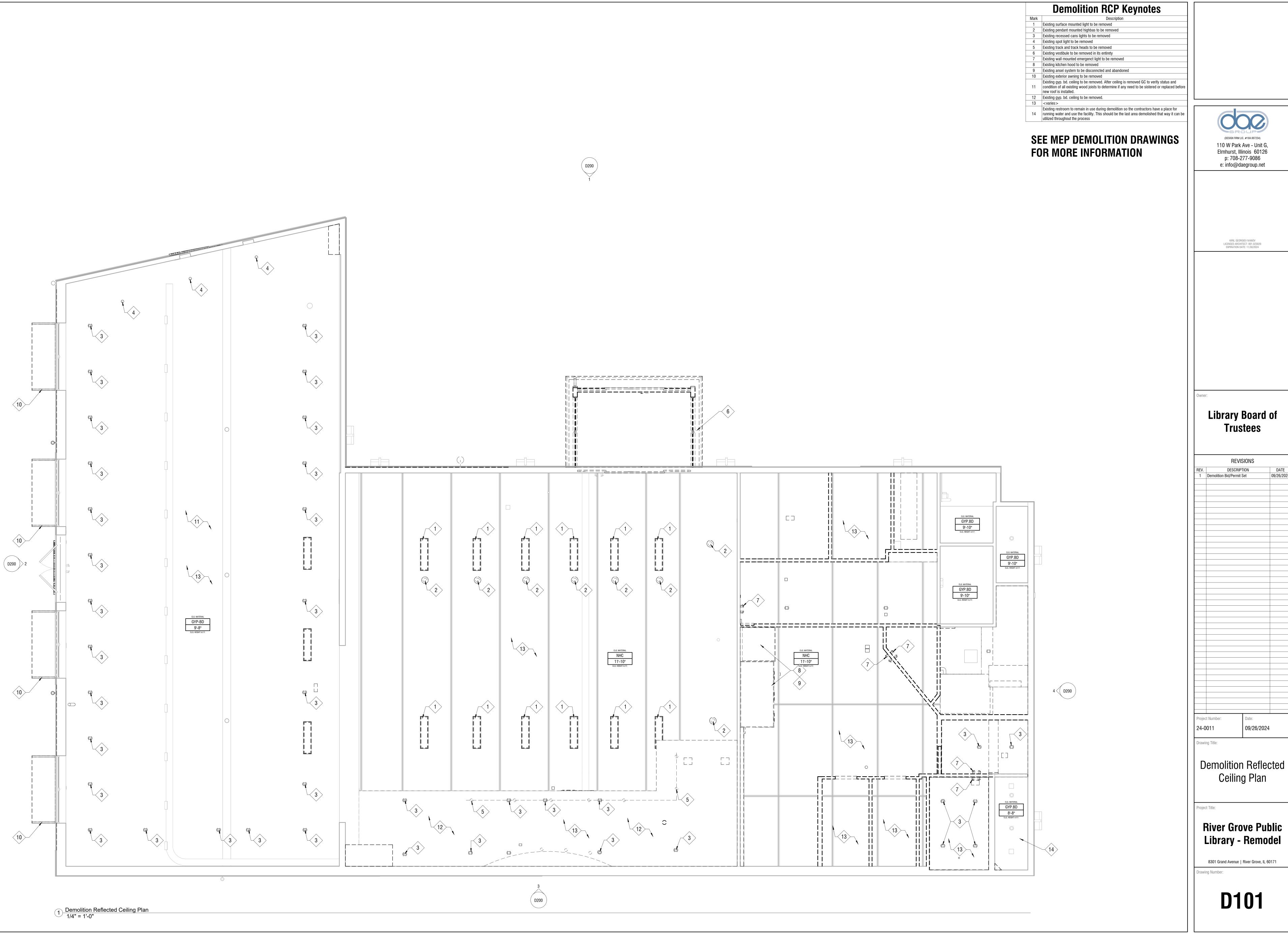
River Grove Public Library - Remodel

8301 Grand Avenue | River Grove, IL 60171

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**River Grove Public Library - Remodel** 







KIRIL GEORGIEV IVANOV LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

# **Library Board of**

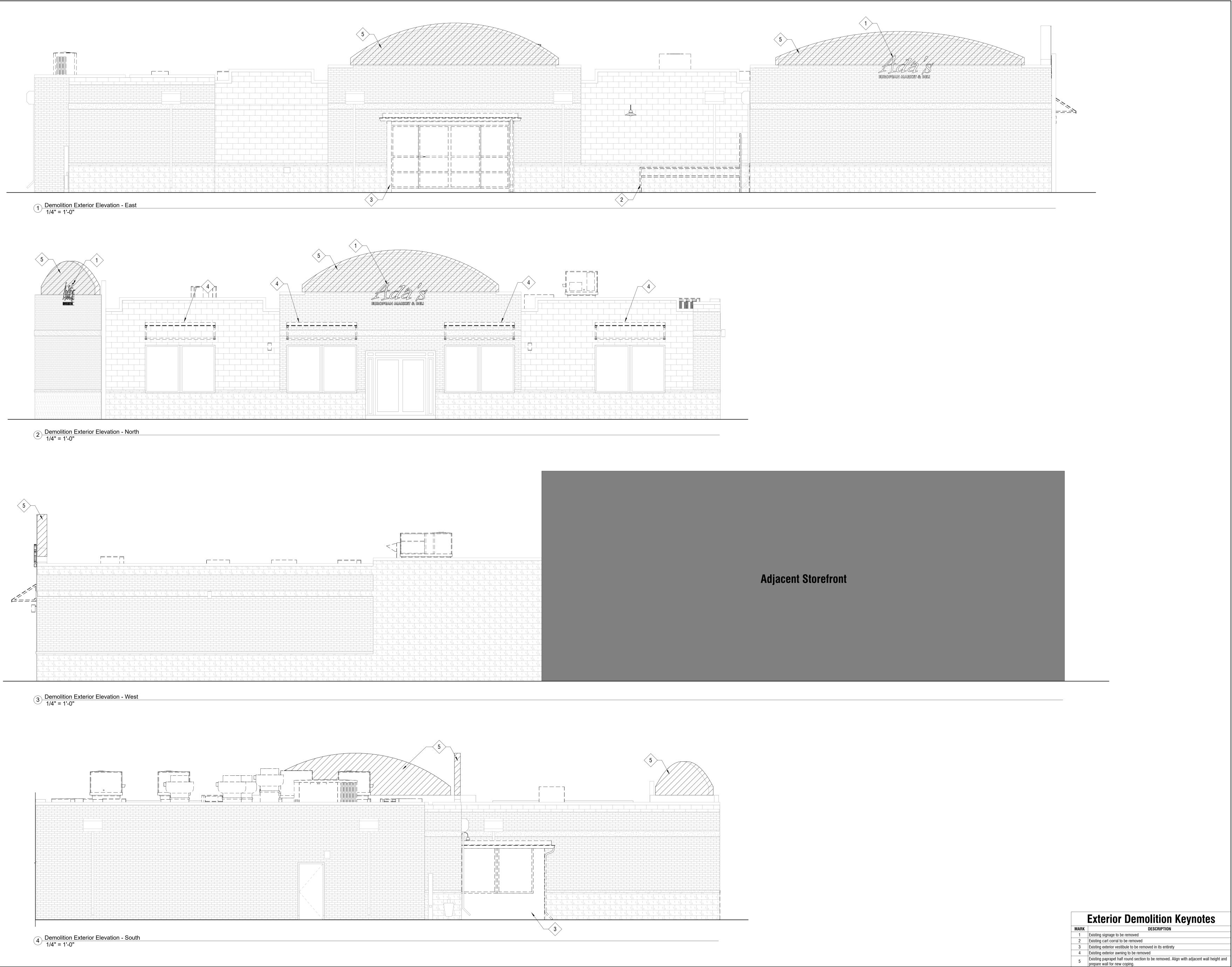
DESCRIPTION Demolition Bid/Permit Set 24-0011 09/26/2024

**River Grove Public Library - Remodel** 

Ceiling Plan

8301 Grand Avenue | River Grove, IL 60171

D101



(DESIGN FIRM LIC. #184.007234)

110 W Park Ave - Unit G,
Elmhurst, Illinois 60126
p: 708-277-9086
e: info@daegroup.net

KIRIL GEORGIEV IVANOV LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

Library Board of

**Trustees** 

REV. DESCRIPTION DATE

1 Demolition Bid/Permit Set 09/26/2024

Project Number: Date: 24-0011 09/26/2024

Demolition Exterior Elevations

Project

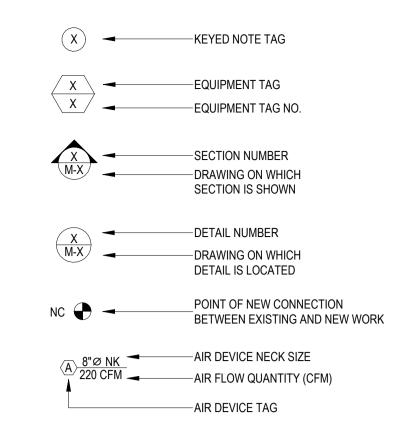
River Grove Public Library - Remodel

8301 Grand Avenue | River Grove, IL 60171

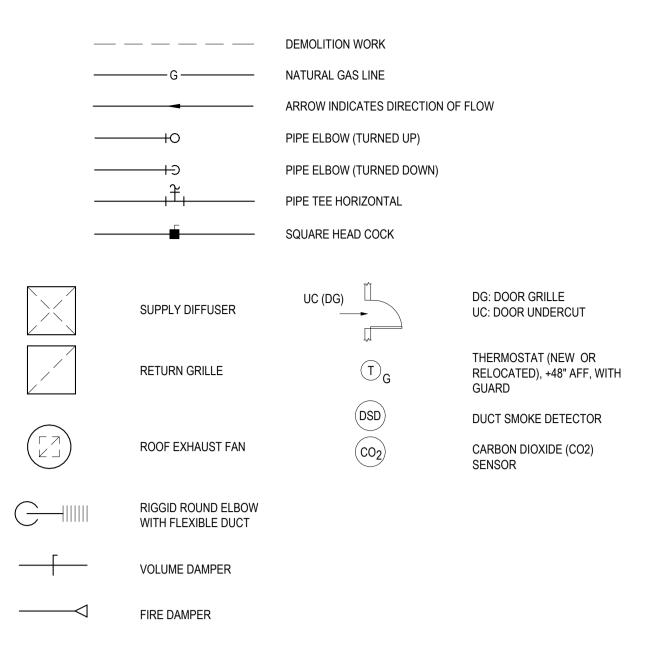
Drawing Number:

**D200** 

#### **IDENTIFICATION SYMBOLS**



## **GENERAL SYMBOLS**



#### **WORK IN EXISTING BUILDINGS**

- 1. CONTRACTOR SHALL FIELD COORDINATE DUCT ROUTING WITH EXISTING STRUCTURAL, CONDUITS, PIPING, ETC. OFFSET, RISE/DROP AS REQUIRED.
- CONTRACTORS ARE TO VISIT JOB SITE PRIOR TO BIDDING WORK. THEY ARE TO FAMILIARIZE THEMSELVES WITH JOB SITE CONDITIONS. CONTRACTORS ARE TO INCLUDE SUFFICIENT ALLOWANCES FOR ANY MODIFICATION OF PIPING AND VENTILATION SYSTEMS THAT MAY BE REQUIRED DUE TO JOB SITE CONDITIONS.
- ALL EQUIPMENT AND MATERIAL INDICATED ON THE DEMOLITION DOCUMENTS THAT IS TO BE REMOVED OR RELOCATED OR REUSED ARE SHOWN FOR THE CONVENIENCE OF THE BIDDERS. CONTRACTORS SHALL FIELD VERIFY ALL ITEMS PRIOR TO SUBMITTING A BID. REMOVE ALL ABANDONED DUCTWORK, PIPE AND FITTINGS THAT IS WITHIN THE CONFINES OF THE WORK AREA. IT IS THE INTENT OF THE DEMOLITION WORK TO INCLUDE THE REMOVAL OF ALL EXISTING DUCTWORK AND PIPING THAT IS NO LONGER REQUIRED FOR THE OPERATION OF MECHANICAL SYSTEMS. THE DUCTWORK AND PIPING WITH ITS ASSOCIATED HANGERS AND INSULATION IS TO BE REMOVED IN ITS ENTIRETY FROM THE BUILDING. ALL DEMOLISHED DUCTS AND PIPING ARE TO BE CAPPED AT THE PERIMETER, FLOOR OR CEILING OF THE PROJECT LIMITATIONS. EXISTING ROOF CURBS AND ROOF OPENINGS TO BE ABANDONED IN PLACE AS A RESULT OF EQUIPMENT REMOVAL SHALL BE CAPPED AND SEALED WEATHERTIGHT.
- SOME OF THE EXISTING ITEMS AND EQUIPMENT SCHEDULES TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. ANY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL BE REMOVED CAREFULLY AS NOT TO DAMAGE THEM. ALL OTHER ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- ALL EXISTING EQUIPMENT IS TO REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD. EXISTING SERVICES MAY BE SHUTDOWN ONLY FOR A SPECIFIC PERIOD OF TIME ONLY AFTER WRITTEN PERMISSION FROM THE OWNER IS OBTAINED.
- UNLESS INDICATED OTHERWISE. THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED. THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.

## **ABBREVIATIONS**

| A.D.  | ACCESS DOOR                   | GPM   | GALLONS PER MINUTE      |
|-------|-------------------------------|-------|-------------------------|
| AFF   | ABOVE FINISHED FLOOR          | НОА   | HAND-OFF-AUTO           |
| АН    | AIR HANDLER                   | HP    | HORSE POWER             |
| AMS   | AIR FLOW MEASURING STATION    | HPU   | HEAT PUMP UNIT          |
| В     | BOILER                        | I.D.  | INNER DIAMETER          |
| BAS   | BUILDING AUTOMATION SYSTEM    | IN    | INCH                    |
| ВС    | BOOSTER COIL                  | L     | LENGTH                  |
| BF    | BOILER FEED (PUMP)            | LAT   | LEAVING AIR TEMPERATURE |
| BFS   | BOILER FEED SYSTEM            | LPC   | LOW PRESSURE CONDENSA   |
| BHP   | BRAKE HORSE POWER             | LPS   | LOW PRESSURE STEAM      |
| BTUH  | BRITISH THERMAL UNIT PER HOUR | MAX   | MAXIMUM                 |
| BV    | BALL VALVE                    | MBH   | 1,000 BTUH              |
| С     | CHILLER                       | MIN   | MINIMUM                 |
| CC    | COOLING COIL                  | NC    | NEW CONNECTION          |
| CFM   | CUBIC FEET PER MINUTE         | NK    | NECK                    |
| CHW   | CHILLED WATER                 | O.A.  | OUTDOOR AIR             |
| CHWS  | CHILLED WATER SUPPLY          | O.D.  | OUTER DIAMETER          |
| CHWR  | CHILLED WATER RETURN          | Р     | PUMP                    |
| CO    | CLEANOUT                      | PD    | PRESSURE DROP           |
| CT    | COOLING TOWER                 | PH    | PHASE                   |
| CTP   | COOLING TOWER PUMP            | PS    | PIPE SLEEVE             |
| CTR   | COOLING TOWER WATER RETURN    | PSI   | POUNDS PER SQUARE INCH  |
| CV    | CONVERTOR                     | RE.D. | RETURN AIR DUCT         |
| CW    | CONDENSER WATER               | RPM   | REVOLUTIONS PER MINUTE  |
| D     | DIAMETER                      | RTU   | ROOF TOP UNIT           |
| D     | DRAIN LINE                    | S     | SUPPLY FAN              |
| DB    | DRY BULB                      | SP    | STATIC PRESSURE         |
| DIA   | DIAMETER                      | SQ    | SQUARE                  |
| DN    | DOWN                          | SU.D. | SUPPLY DUCT             |
| Е     | EXHAUST FAN                   | TFA   | TO FLOOR ABOVE          |
| EAT   | ENTERING AIR TEMPERATURE      | TFB   | TO FLOOR BELOW          |
| EF    | EXHAUST FAN                   | TSP   | TOTAL STATIC PRESSURE   |
| EX.D. | EXHAUST DUCT                  | TYP.  | TYPICAL                 |
| F     | FAHRENHEIT                    | UC    | UNDERCUT DOOR           |
| FI.D. | FIRE DAMPER                   | VAV   | VARIABLE AIR VOLUME     |
| FC    | FLEXIBLE CONNECTOR            | VFD   | VARIABLE FREQUENCY DRIV |
| FD    | FLOOR DRAIN                   | WB    | WET BULB                |
|       |                               |       |                         |

#### MECHANICAL DRAWING LIST HVAC Symbols, Abbreviations, and Notes 06/10/24 **HVAC Specifications** 06/10/24 DM1.1 **HVAC First Floor Demolition Plan** 06/10/24

THIS IS A GENERAL SYMBOL LIST THEREFORE SOME

DISREGARD SYMBOLS AND ABBREVIATIONS WHICH DO

DM1.2 HVAC Roof Demolition Plan

NOT APPLY TO THIS PROJECT.

ITEMS MAY NOT DIRECTLY APPLY TO THIS PROJECT AND

WC WATER COLUMN

WG WATER GAUGE

06/10/24

FPM FEET PER MINUTE

G GAS (NATURAL)

FT FEET

#### MECHANICAL NEW WORK GENERAL NOTES

- DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING AND DUCTWORK AS SHOWN. DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH CONSTRUCTION MANAGER AND OWNERS STIPULATION AS CALLED FOR IN THE SPECIFICATION AND/OR AS DIRECTED.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, ELECTRICAL, PLUMBING, AND STRUCTURAL CONTRACT DOCUMENTS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE OTHER TRADES CONTRACTORS WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING AND REFINISHING OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OF THEIR WORK. (NOTE: FLOOR CUTTING AND PATCHING FOR NEW DUCTWORK AND ALL ROOF CUTTING AND PATCHING TO BE BY GENERAL CONTRACTOR.) ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE NEW CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, AND REFINISHING.
- CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING, DUCTWORK, CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.
- ALL PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. INSULATED PIPING SHALL REST ON STEEL OR WOOD. PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS AS CALLED FOR IN THE SPECIFICATIONS AND/OR DETAILED ON THE DRAWINGS.
- BEFORE STARTING ANY SYSTEM INSTALLING CONTRACTOR SHALL CONTACT EQUIPMENT MANUFACTURER TO VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE OR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE TO THE EQUIPMENT OR SYSTEM.
- ALL PIPING PASSING THRU FLOOR CONSTRUCTION SHALL HAVE A SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND PIPE ONLY. ALL PIPE PASSING THRU WALLS SHALL HAVE A GALVANIZED SHEET METAL OR SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND THE PIPE AND PIPE INSULATION.
- THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT LISTED AS A SPECIFIED ACCEPTABLE MANUFACTURER BUT IS NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH REQUIRED ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY THE SIZE OF EXISTING OPENINGS, WINDOWS, DOORS, CORRIDORS, ROOMS, ETC. FOR ACCESS OF THE NEW EQUIPMENT INTO THE EXISTING BUILDING. IF OPENINGS ARE TOO SMALL FOR ACCESS, THEN CONTRACTOR SHALL PROVIDE NEW OR ENLARGED OPENINGS, AT HIS OWN EXPENSE, TO FACILITATE ENTRANCE INTO EXISTING SPACE OR BUILDING. CONTRACTOR MAY ELECT TO ORDER THE EQUIPMENT DISASSEMBLED AND/OR WITH SPLIT HOUSING FOR ENTRANCE INTO THE EXISTING SPACE OR BUILDING. CONTRACTOR SHALL REASSEMBLE EQUIPMENT AFTER IT IS IN THE SPACE AT HIS OWN EXPENSE.
- REMOVED/REINSTALLED AND EXISTING TO REMAIN EQUIPMENT: REINSTALL EQUIPMENT IN LOCATIONS INDICATED, COMPLY WITH INSTALLATION REQUIREMENTS FOR NEW EQUIPMENT. PROVIDE NEW CONNECTIONS (PIPING, DUCTWORK, ELECTRICAL, GAS, FLUE AND DRAIN) NECESSARY TO MAKE THE EQUIPMENT FUNCTIONAL FOR USE INDICATED.
- THE ACCESSORIES OR DEVICES REASONABLY INFERABLE AS NECESSARY, TO THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY CONTRACTOR WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING, DUCTWORK AND SERVICES SIZES NOTED IN THESE DRAWINGS. ANY DISCREPANCY IN THE NOTED SIZES SHALL NOT BE THE BASIS OF ADDITIONAL COST TO THE CONTRACT.
- THE EXISTING SERVICES AS SHOWN ON THESE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION WHICH IS REPRODUCED HERE FOR CONVENIENCE. HOWEVER THE CONTRACTOR SHALL PERFORM HIS OWN RESEARCH/INVESTIGATION TO CONFIRM ALL EXISTING SERVICES SHOWN ON THESE DRAWINGS. ANY DISCREPANCY IN THIS REGARD SHALL NOT BE THE BASIS OF ADDITIONAL COST TO THE CONTRACT.
- REVISIONS AND ALTERATIONS OF EXISTING SERVICES DUE TO THE NEW CONSTRUCTION: WHERE NECESSARY RE-ROUTE PIPING, DUCTWORK FROM WITHIN WALLS, FLOORS, CEILINGS TO ACCOMMODATE NEW WORK.
- ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS UNLESS NOTED OTHERWISE. ALL PIPING, VALVES, CONNECTIONS, DEVICES RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE CONTRACT.
- CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND PAINTING AS REQUIRED TO COMPLETE THE WORK.

#### **GENERAL NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. THE CONSTRUCTION DOCUMENTS INDICATE APPROXIMATE LOCATION OF EXISTING MECHANICAL SYSTEMS AND ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND ROUTING OF THE EXISTING SYSTEMS. VERIFY WITH ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND MECHANICAL DRAWINGS FOR DUCT SIZES. FIELD VERIFY PRIOR TO BIDDING PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC. AT NO ADDITIONAL
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND
- WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. SUBMIT TO ARCHITECT FIVE (5) COPIES OF EQUIPMENT SPECIFICATIONS FOR
- SUBMIT TO ARCHITECT FIVE (5) COPIES OF ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS.
- AFTER COMPLETION OF WORK SUBMIT AS BUILTS COORDINATED DRAWINGS. THESE DRAWINGS SHALL BE PREPARED ON CAD AND SUBMIT COMPUTER DISK TO ARCHITECT/OWNER. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
- PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT.
- THE DRAWINGS INDICATE GENERAL CHARACTER AND LOCATION OF WORK INCLUDED, BUT HAVING MINOR SPECIALTIES OMITTED WHICH ARE TO BE PROVIDED WITHOUT EXTRA COST.
- PROVIDE ALL HOLES, SLEEVES, AND CAULKING FOR INSTALLATION OF THIS WORK, CAULKING TO CONFORM TO FIRE RATING OF WALLS.

#### M / E / P COORDINATION NOTES

REVIEW (AND/OR) APPROVAL.

EACH TRADE SHALL PREPARE COORDINATION DRAWINGS.

THESE DRAWINGS SHALL DETAIL ALL ELEMENTS, COMPONENTS, AND SYSTEMS OF THE APPLICABLE MECHANICAL, PLUMBING, AND ELECTRICAL TRADE.

DRAWINGS SHALL ALSO INDICATE THE WORK LOCATIONS OF OTHER TRADES AND INDICATE THEIR RELATIONSHIP IN ALL AREAS WHERE LIMITED SPACE REQUIRES DETAILED COORDINATION.

ALL INFORMATION INCLUDED THAT IS NOT A PART OF THE SYSTEM BEING PRESENTED SHALL BE

ALL SYSTEM COMPONENTS OF TRADE BEING PRESENTED SHALL APPEAR DARK AND BE EASILY DISTINGUISHED FROM ARCHITECTURAL INFORMATION OR OTHER SYSTEM INFORMATION INCLUDED FOR COORDINATION PURPOSES.

INDICATED LIGHT OR HALF TONE. INDICATE LOCATIONS WHERE SPACE IS LIMITED FOR INSTALLATION AND ACCESS AND WHERE

SEQUENCING AND COORDINATION OF INSTALLATIONS ARE OF IMPORTANCE TO THE EFFICIENT FLOW OF THE WORK, INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS. INCLUDE THE FOLLOWING:
  - A. DUCTWORK MAINS AND BRANCHES, SIZE AND LOCATION, FOR BOTH EXTERIOR AND INTERIOR; LOCATIONS OF DAMPERS AND OTHER CONTROL DEVICES; FILTERS, BOXES, AND TERMINAL UNITS REQUIRING PERIODIC MAINTENANCE
  - MAINS AND BRANCHES OF ALL PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE. INDICATE ACTUAL INVERTS AND HORIZONTAL LOCATIONS OF UNDERGROUND PIPING.
- EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
- CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, INCLUDING TUBE REMOVAL, FILTER REMOVAL, ETC.
- EQUIPMENT CONNECTIONS AND SUPPORT DETAILS.
- G. EXTERIOR WALL AND FOUNDATION PENETRATIONS.
- H. FIRE-RATED WALL AND FLOOR PENETRATIONS. I. SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
- J. VALVE STEM MOVEMENT.
- K. INDICATE LOCATION OF ALL EQUIPMENT, DUCTWORK, PIPING. ETC.. WITH DIMENSIONS FROM PROMINENT BUILDING LINES: AND ELEVATIONS ABOVE CORRESPONDING FLOORS, ROOFS OR GRADE AS APPLICABLE.
- INDICATE SCHEDULING. SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.
- PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
- PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS, DUCTWORK, LIGHT FIXTURES, PIPING, AND OTHER CEILING-MOUNTED ITEMS. DIMENSION ALL ITEMS FROM PROMINENT BUILDING LINES.
- SUBMIT ALL COORDINATION DRAWINGS AND/OR SHOP DRAWINGS PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF ANY EQUIPMENT, ANY WORK STARTED OR EQUIPMENT PURCHASED PRIOR TO THE REVIEW OF SUBMITTED DRAWINGS BY THE ARCHITECT/ENGINEER IS DONE AT THE CONTRACTOR'S RISK. THE OFFENDING CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ALL CHANGES, MODIFICATIONS, AND/OR EXTRA SERVICES REQUIRED RESULTING FROM THE IMPROPER COORDINATION AND/OR IMPROPER SUBMITTAL PROCESS.
- ENCIRCLE OR BUBBLE ANY REVISIONS MADE ON DRAWINGS BEING SUBMITTED MORE THAN ONE TIME. INDICATE ALL REVISIONS OR CHANGES MADE SUBSEQUENT TO THE PREVIOUS SUBMITTAL REVIEWED BY THE ARCHITECT/ENGINEER.



LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

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Drawing Title:

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**SECTION ONE - (GENERAL)** 

THE MECHANICAL CONTRACTOR SHALL BE THE CONTROLS CONTRACTOR FOR THIS PROJECT.

THE CONTROLS CONTRACTOR SHALL BE THE CONTROLS ENGINEER FOR THIS PROJECT: RESPONSIBLE FOR DESIGN AND ENGINEERING OF ALL CONTROL SYSTEMS TO OPERATE AS DESCRIBED IN THE SEQUENCE OF OPERATION, TO CONFORM WITH THE GOVERNING BUILDING CODES AND OPERATE IN A MANNER CONSISTENT WITH KNOWN GOOD CONTROLS ENGINEERING PRACTICE.

THE CONTROLS CONTRACTOR / ENGINEER SHALL IDENTIFY ANY POTENTIAL CONDITIONS THAT COULD BE CONSTRUED TO DEVIATE FROM GOOD CONTROLS ENGINEERING PRACTICE PRIOR TO BIDDING AND INCLUDE ALL ENGINEERING AND INSTALLATION WORK REQUIRED TO MAKE ALL HVAC SYSTEMS COMPLETE AND OPERATIONAL, IN CONFORMANCE WITH GOOD CONTROLS ENGINEERING PRACTICE PRIOR TO SUBMITTING HIS BID.

THE CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL COMPONENTS, WIRING, INTERLOCKS, ELECTRICAL POWER AND ALL OTHER DEVICES REQUIRED TO MAKE ALL HVAC EQUIPMENT INSTALLED UNDER THIS PROJECT COMPLETE AND OPERATIONAL. PER THE SEQUENCE OF OPERATION AND AS REQUIRED FOR SAFE AND ACCURATE CONTROL.

ALL COMPONENTS, DEVICES, WIRING, PIPING AND GENERAL WORK THAT IS REQUIRED FOR THE COMPLETION OF THE WORK SHALL BE INCLUDED IN THIS CONTRACTORS SCOPE OF WORK. CONTRACTOR SHALL CONFORM TO THE BEST PRECEPTS OF THE TRADE THAT COMPLY WITH CODES AND CONTROL ENGINEERING PRACTICE. CONTRACTOR SHALL PROVIDE A SINGLE SOURCE OPERATING SYSTEM RESPONSIBILITY.

THE CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL VALVES AND ACTUATORS TO THE MECHANICAL CONTRACTOR FOR INSTALLATION. THE CONTROLS CONTRACTOR SHALL DIRECT THE MECHANICAL CONTRACTOR AS TO THE PROPER LOCATION AND ORIENTATION OF ALL DEVICES TO ACHIEVE A PROPER AND CORRECT CONTROL SEQUENCE.

THE CONTROLS CONTRACTOR SHALL PROVIDE ENGINEERED DRAWINGS, CALIBRATION AND COMMISSIONING FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.

THE CONTROLS CONTRACTOR SHALL INCLUDE ADEQUATE TIME IN HIS BID FOR COMPLETE COMMISSIONING OF THE MECHANICAL SYSTEMS. ON SITE COORDINATION WITH THE MECHANICAL CONTRACTOR AND OTHER TRADES AS REQUIRED TO MAKE ALL EQUIPMENT COMPLETE AND FULLY OPERATIONAL.

IN THE EVENT THAT ANY PART OF THE MECHANICAL DRAWINGS. SPECIFICATIONS, OR NOTES CONFLICT WITH ANY OTHER: THE MOST STRINGENT REQUIREMENT SHALL APPLY, PROVIDING THE GREATEST SAFETY AND/OR AT THE HIGHEST COST OF THE CONFLICTING OPTIONS.

ALL CONTROL SYSTEMS READOUTS/DISPLAYS AND OPERATIONS SHALL MATCH INSTALLED MECHANICAL EQUIPMENT, I.E. STAGES OF OPERATION. WIRE ALL LOOSE CONTROLS AND DEVICES PROVIDED WITH HVAC

EQUIPMENT AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. THE CONTROLS TECHNICIAN IS TO WORK WITH THE ENGINEER TO PROVIDE "PROJECT COMMISSIONING" - DEFINED AS: "THE PROCESS OF ADVANCING SYSTEMS FROM A STATE OF STATIC PHYSICAL

COMPLETION TO A STATE OF FULLY DEMONSTRATED AND

DOCUMENTED WORKING ORDER, ACCORDING TO DESIGN

MAINTENANCE."

REQUIREMENTS, DURING WHICH TIME THE OWNERS OPERATING

STAFF ARE INSTRUCTED IN CORRECT SYSTEMS OPERATION AND

AT A TIME MUTUALLY AGREED UPON WITH OWNER AND ARCHITECT/ENGINEER CONTROL CONTRACTOR SHALL HOLD A TOTAL OF TWO HOURS, OR AS DEEMED NECESSARY FOR TYPE OF CONTROL SYSTEM, OF TRAINING AND SUPPORT FOR THE OWNER'S MAINTENANCE PERSONNEL.

SECTION TWO - (ELECTRICAL)

THE CONTROLS CONTRACTOR SHALL PROVIDE ALL ELECTRICAL POWER AND CONTROL WIRING, CONDUIT, JUNCTION BOXES. RACEWAY, TRANSFORMERS, RELAYS AND ALL OTHER ELECTRICAL APPURTENANCES REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL CONTROL SYSTEM. THIS INCLUDES ALL POWER WIRING FROM SPARE CIRCUIT BREAKERS PROVIDED IN BUILDING EMERGENCY PANELS FOR POWERING OF CONTROLS AND CONTROL PANELS AND ALL OTHER CONTROL SYSTEM COMPONENTS.

ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND APPLICABLE STATE AND LOCAL AMENDMENTS.

THE CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL ALL HARDWIRED INTERLOCKS BETWEEN STARTERS AS REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATION AND PROPER SYSTEM CONTROLS. PROVIDE RELAYS AS REQUIRED FOR AUTOMATIC START/STOP OF ALL SINGLE PHASE EXHAUST FANS AND INTERLOCK OF AUTOMATIC DAMPERS.

SECTION THREE - (THERMOSTAT)

THE CONTROLS CONTRACTOR SHALL PROVIDE THERMOSTATS FOR ALL CONTROLLED EQUIPMENT TO OPERATE AS DESCRIBED IN THE SEQUENCE OF OPERATION AND/OR PER MANUFACTURER'S REQUIREMENTS AND KNOWN STANDARDS OF GOOD CONTROL PRACTICE. INCLUDE ALL THERMOSTATS AS REQUIRED FOR EQUIPMENT TO BE COMPLETE AND FULLY OPERATIONAL WHETHER SHOWN SPECIFICALLY ON THE PLANS OR NOT.

PROVIDE LOCKABLE COVERS FOR ALL THERMOSTATS LOCATED IN COMMON AREAS, ETC.

THERMOSTATIC CONTROLS ARE TO HAVE 5 DEGREES F DEADBAND

ALL TEMPERATURE SENSORS IN DUCTWORK, AIR HANDLING UNITS AND PLENUMS SHALL BE OF AVERAGING TYPE. PROPERLY SUPPORT AVERAGING ELEMENT (MINIMUM TWENTY FEET LENGTH) ACROSS A REPRESENTATIVE AREA TO ACHIEVE A TRUE AVERAGE READING. SUPPORT USING HEAVY CABLE AND/OR HALF INCH CONDUIT WITH NYLON WIRE TIES.

BUILDING/SPACE STATIC PRESSURE SENSORS SHALL BE INSTALLED IN THE CEILING IN A MAIN BUILDING CORRIDOR OPEN TO THE MAIN ENTRANCE OF THE BUILDING. STATIC PRESSURE SENSING TIP SHALL HAVE COVER PLATE TO MATCH CEILING AND AN EMBOSSED LABEL STATING "PRESSURE CONTROL SENSOR - DO NOT PAINT".

THE CONTROLS CONTRACTOR/ENGINEER SHALL SELECT ALL PRESSURE AND TEMPERATURE SENSORS WITH AN APPROPRIATE SPAN AND RANGE FOR THE APPLICATION.

ALL OUTDOOR AIR SENSORS SHALL BE INSTALLED WITH SUN SHIELD AND IN A LOCATION WHERE THEY CAN NOT BE WASHED BY EXHAUST AIR OR OTHER SOURCES OF FALSE READINGS.

ALL TEMPERATURE AND PRESSURE SENSORS SHALL BE INSTALLED IN

LOCATIONS SUCH THAT THEY DO NOT MAKE FALSE READINGS. CONTROLS CONTRACTOR/ENGINEER SHALL REVIEW THE PLANS AND IDENTIFY ANY SUCH POTENTIAL CAUSES FOR FALSE READING AND NOTIFY THE ENGINEER IN WRITING THAT THESE SHOULD BE RELOCATED PRIOR TO ROUGH IN AND CONTROLS INSTALLATION.  $\,$  T CONTROLS CONTRACTOR SHALL RELOCATE ANY SENSORS INSTALLED IN IMPROPER LOCATIONS AND GIVING FALSE READINGS AT HIS OWN EXPENSE. CONDITIONS TO BE AWARE OF SHALL INCLUDE BUT ARE NOT LIMITED TO LOCATIONS OF THERMOSTATS BEHIND DOORS, OUTDOOR AIR SENSORS NEAR EXHAUST OPENINGS, STATIC PRESSURE SENSORS IN TURBULENT LOCATIONS, THERMOSTATS INSTALLED ADJACENT TO HEAT SOURCES, SUCH AS COFFEE POTS COMPUTERS, VENDING MACHINES AND OTHER APPLIANCES, ETC.

THE CONTROLS CONTRACTOR/ENGINEER SHALL FURNISH AND INSTALL MINIMUM RESET SAFETY DEVICES FOR ANY AND ALL CONDITIONS THAT COULD DAMAGE THE EQUIPMENT AND/OR NECESSARY CUTTING OF ACCESS. REPRESENT A THREAT TO HUMAN SAFETY.

OUTDOOR AIR AND EXHAUST DAMPERS SHALL FAIL TO THE CLOSED OUTDOOR AIR AND EXHAUST DAMPERS ARE TO BE HIGH

PREFORMANCE AIRFOIL, LOW LEAKAGE, OPPOSED BLADE - RUSKIN EACH UNIT WITH OUTDOOR AIR SHALL BE PROTECTED WITH A FREEZE

**SECTION FOUR - (SAFETY DEVICES)** 

THERMOSTAT TO SHUT DOWN SYSTEM.

SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR FOR ALL SUPPLY FANS OVER 2000 CFM. THE CONTROLS CONTRACTOR SHALL WIRE SPARE CONTACT ON THE LOCAL DUCT SMOKE DETECTOR TO SHUT DOWN THE SUPPLY FAN ON SMOKE ALARM.

**SECTION ONE (GENERAL)** 

SCOPE OF WORK - THIS CONTRACTOR SHALL FURNISH, INSTALL AND MAKE OPERATIONAL ALL EQUIPMENT, DUCTWORK AND PIPING AS SHOWN ON THE PLANS AND DESCRIBED ON THIS DRAWINGS INCLUDING DIFFUSERS, REGISTER, GRILLES, ETC. AND ALL

BIDDING - FURNISH A BASE PRICE FOR ALL WORK SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS.

ACCESS - ACCESS TO THE SITE SHALL BE COORDINATED WITH THE ARCHITECT AND THE OTHER TRADES.

AIR BALANCING - THIS CONTRACTOR SHALL INCLUDE TESTING AND AIR BALANCING IN HIS BID BY AN INDEPENDENT, AABC CERTIFIED AIR TESTING AND BALANCING CONTRACTOR.

THE AIR BALANCER SHALL ADJUST THE AIR SUPPLY TO AND RETURN FROM ALL THE OUTLETS SHOWN TO WITHIN 5% OF THE ASSIGNED AIR QUANTITY.

THE BALANCER SHALL UTILIZE THE DUCT DAMPERS AND BRANCH SPLITTERS TO SET INITIAL VOLUMES. DIFFUSER AND GRILLE DAMPERS SHALL BE USED FOR FINE TUNE ADJUSTMENTS. FAN SHORTAGES SHALL BE REPORTED TO THE ARCHITECT. FAN ADJUSTMENTS IS A PART OF THIS WORK, PRESSURE TEST SHALL BE DONE AS PER SMACNA STANDARDS AND PER BUILDING STANDARDS. THIS CONTRACTOR SHALL PROVIDE 2 SETS OF VENTILATION TEST REPORTS WITH MARKED-UP PRINTS TO THE ARCHITECT/OWNER.

SITE, PRIOR TO SUBMITTING THE BID, TO VERIFY ALL EXISTING CONDITIONS AND ASSURE THAT ALL REQUIRED WORK IS INCLUDED IN THE BID PRICE. NO EXTRA CHARGES SHALL BE ACCEPTED BY THE ARCHITECT/OWNER FOR WORK THAT HAS TO BE PERFORMED DUE TO THE CONTRACTOR'S FAILURE TO ADEQUATELY VERIFY EXISTING CONDITIONS.

HVAC DRAWINGS - THESE DRAWINGS ARE TO SHOW THE SCOPE OF THE REQUIRED WORK. THEY ARE NOT COORDINATED SHOP DRAWINGS NOR ARE THEY DIMENSIONALLY PERFECT. BIDDING CONTRACTORS SHALL MAKE WHATEVER ALLOWANCES ARE NECESSARY IN ORDER TO FIT, COORDINATE, AND COMPLETE THIS WORK FOR THE QUOTED SUM.

COORDINATION OF TRADES - THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE WITH THE WORK OF OTHER TRADES. HVAC WORK THAT INTERFERES WITH THAT OF OTHER TRADES DUE TO LACK OF COORDINATION SHALL BE CHANGED AT NO ADDITIONAL COST TO THE ARCHITECT/OWNER.

<u>CEILING ACCESS</u> - THE GENERAL CONTRACTOR SHALL PROVIDE CEILING ACCESS TO EACH CEILING MOUNTED EQUIPMENT SHOWN ON THE DRAWINGS, ACCESS SHALL BE OF SUFFICIENT SIZE TO ALLOW NORMAL MAINTENANCE. COORDINATE EQUIPMENT LOCATION WITH GENERAL CONTRACTOR.

<u> CHANGES</u> - THE LAYOUT AND SIZES OF DUCTWORK AND EQUIPMENT ON THIS PROJECT HAVE BEEN BASED ON EXISTING BASE BUILDING DRAWINGS, ANY CHANGES THE CONTRACTOR PROPOSES TO MAKE MUST BE SUBMITTED TO THE ARCHITECT/OWNER WITH HIS BID IN WRITING. AFTER THE CONTRACT HAS BEEN AWARDED, CHANGES TO THE LAYOUT OR SIZES MUST BE SUBMITTED TO THE ARCHITECT IN THE FORM OF DIMENSIONED SHOP DRAWINGS FOR APPROVAL.

<u>CUTTING</u> - EACH TRADE SHALL DO THE REQUIRED CUTTING NECESSARY FOR THE PASSAGE OF HIS OWN WORK. THE GENERAL CONTRACTOR SHALL PATCH THE CONSTRUCTION, AS LONG AS THE CUTTING IS DONE IN A TIMELY AND PROPER MANNER.

PROTECT ALL EXISTING BUILDING SURFACES, EQUIPMENT AND FIXTURES FROM DAMAGE FROM THE CONSTRUCTION WORK FOR THIS PROJECT. ANY DAMAGE CAUSED BY THIS CONTRACTOR SHALL BE REPAIRED AT HIS OWN EXPENSE.

PROTECTION OF EXISTING CONDITIONS - THE CONTRACTOR SHALL

PERMITS & CODES - THIS CONTRACTOR SHALL OBTAIN ALL PERMITS AS REQUIRED AT HIS OWN EXPENSE. ALL WORK PERFORMED AND MATERIALS INSTALLED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH LOCAL CITY/VILLAGE CODES, NFPA, ASHRAE, NEC AND ALL OTHER APPLICABLE CODES AND STANDARDS.

<u>CLEANING</u> - ALL AREAS SHALL BE BROOM CLEANED UPON COMPLETION AND ALL EXCESS MATERIALS AND WASTE SHALL BE REMOVED FROM THE JOB SITE DAILY.

INTERFERENCES & ENGINEER AVAILABILITY - IF THE FOREMAN FEELS THAT THE INSTALLATION CAN BE IMPROVED, EXPEDITED OR CAN NOT BE LAID OUT AS SHOWN ON THE PLANS, HE SHALL REQUEST FOR A REPRESENTATIVE OF ARCHITECT TO BE AVAILABLE AT THE JOB SITE. THE CONTRACTOR/FOREMAN SHALL MAINTAIN COMMUNICATION BETWEEN THE INSTALLERS AND ARCHITECT THROUGHOUT THE COURSE OF THE PROJECT.

SUBMITTALS - THIS CONTRACTOR SHALL COORDINATE WITH G.C. AND OTHER SUBCONTRACTORS, SUBMIT MANUFACTURES DATA SHEETS ON ALL EQUIPMENT, DIFFUSERS, 1/4" SCALE SHEET METAL LAYOUTS AND OTHER COMPONENTS SHOWN ON THESE PLANS FOR REVIEW BY THE ARCHITECT/OWNER. SHEET METAL SHOP DRAWINGS SHALL INDICATE DUCT SIZES, ELEVATIONS, COORDINATED WITH OTHER TRADES ETC. ALL SHOP DRAWINGS SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO INSTALLATION BY THE CONTRACTOR.

WARRANTY - THIS CONTRACTOR SHALL WARRANT ALL MATERIALS. PURCHASED EQUIPMENT INSTALLED AND LABOR PERFORMED UNDER THIS CONTRACT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE FULL YEAR FROM THE DATE OF SIGN OFF FOR FINAL PAYMENT. THIS INCLUDES ENFORCEMENT OF THE MANUFACTURES WARRANTIES ON ALL EQUIPMENT. COPIES OF ALL WARRANTIES SHALL BE GIVEN TO

SERVICE ACCESS - ALL SERVICEABLE EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION WITH APPROPRIATE CLEARANCES FROM ADJACENT EQUIPMENT AND/OR STRUCTURES. CLEARANCES SHALL BE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL EQUIPMENT IN THE

SECTION TWO (VENTILATION)

CEILINGS - COORDINATE DUCT RUNS AND DIFFUSER LOCATIONS WITH CEILING LAYOUT, VERIFY OULET AND LIGHTING LOCATIONS, AND CENTER ALL AIR OUTLETS IN CONNECTION WITH OTHER BUILDING ELEMENTS. SUPPORT DUCTWORK FROM STRUCTURAL

> MANUAL DAMPERS - THIS CONTRACTOR SHALL FURNISH AND INSTALL A MANUAL VOLUME DAMPER, OR A SPLITTER DAMPER IN EACH NEW LOW PRESSURE DUCT TAKE-OFF, AND AT EACH RETURN OPENING. FURNISH & INSTALL A SPIN COLLAR DAMPER (SCD) OR OVAL COLLAR DAMPER (OCD) AS REQUIRED. SEAL ALL SPIN COLLAR AND OVAL COLLAR CONNECTIONS WITH UNITED DUCT SEALER.

<u>DUCTWORK FABRICATION (GENERAL)</u> - ALL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN A WORKMAN-LIKE MANNER. CONSISTENT WITH SMACNA STANDARDS. ALL DUCTWORK SHALL BE METAL AS REQUIRED BY LOCAL CODE. ALL DUCTWORK SHALL BE FABRICATED FROM PRIME QUALITY GALVANIZED SHEET STEEL. WATER STAINED MATERIAL IS UNACCEPTABLE. TURNING VANES SHALL BE OMITTED. SIZES SHOWN ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

<u>LOW PRESSURE RECTANGULAR DUCTWORK</u> - ALL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN A WORKMAN-LIKE MANNER, CONSISTENT WITH SMACNA STANDARDS FOR 2" SP (WG). DUCTWORK SHALL BE FABRICATED USING THE FOLLOWING MINIMUM GAUGES FOR THE WIDTHS LISTED. 26 GA FOR DUCTS UP TO 12" WIDE, 24 GA FOR DUCTS 13" TO 29" WIDE, AND 22 GA FOR DUCTS 30" TO 54" WIDE. ALL DUCTWORK SHALL BE FABRICATED FROM PRIME QUALITY GALVANIZED SHEET STEEL. WATER STAINED MATERIAL IS UNACCEPTABLE. TURNING VANES SHALL BE OMITTED. SIZES SHOWN ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

LOW PRESSURE ROUND DUCTWORK - ROUND RIGID SHEET METAL DUCTWORK SHALL BE USED FOR ALL RUN OUTS TO DIFFUSERS MORE THAN FIVE LINEAL FEET (5'-O") FROM THE RECTANGULAR DUCT, I.E. 5'-O" MAXIMUM FLEX LENGTH. ALL ROUND ELBOWS & OFFSETS SHALL BE STAMPED TWO PIECE SHEET METAL PER SMACNA STANDARDS. NO SEGMENTED OR GORE ELBOWS WILL BE ACCEPTED.

LOW-PRESSURE FLEXIBLE DUCTWORK - FLEXIBLE DUCTWORK SHALL BE WIREMOLD TYPE WK, GENFLEX EQUIVALENT, THERMAFLEX M-KE (PRE-INSULATED) OR APPROVED EQUAL. ALL FLEX DUCT ON SUPPLY SHALL BE EXTERNALLY INSULATED WITH 2" FOIL BACKED FIBERGLASS. SEAL ALL JOINTS WITH FSK TAPE. RUN AND SUPPORT FLEX DUCTWORK SUCH THAT IT MAINTAINS ITS FULL DIAMETER THROUGHOUT. SHARP BENDS, KINKS AND CONDITIONS THAT RESTRICT AIR FLOW IN ANY WAY WILL NOT BE ACCEPTED. 5'-0" MAXIMUM FLEX LENGTH. SEE THE FLEXIBLE DUCTWORK SUPPORT DETAIL FOR MORE INFORMATION. FLEXIBLE DUCTWORK TO BE USED FOR THE FINAL CONNECTION BETWEEN SPIN / OVAL COLLAR DAMPER OR ROUND RIGID DUCT AND THE DIFFUSER ONLY. FLEXIBLE DUCT IS NOT TO BE USED IN PLACE OF ELBOWS OR BETWEEN TWO (2) PIECES OF ROUND RIGID DUCT.

INSULATION AND ACOUSTIC LINING - ALL LOW PRESSURE DUCTS, SUPPLY AND RETURN AIR DUCTS SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS INSULATION COVERING. DUCT CONNECTION TO FLANGES SHALL BE SEALED AND MECHANICALLY FASTENED, DUCT TAPE IS NOT PERMITTED AS SEALANT. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. ALL NEW ROUND LOW PRESSURE SUPPLY DUCTS SHALL BE EXTERNALLY INSULATED FOIL BACKED FIBERGLASS SEAL INSULATION JOINTS WITH FSK TAPE. ALL NEW LOW PRESSURE FLEXIBLE DUCTS SHALL EITHER BE PRE-INSULATED OR INSULATED WITH FOIL BACKED FIBERGLASS. SEAL INSULATION JOINTS WITH FSK TAPE. DUCT SIZES SHOWN DO NOT ACCOUNT FOR THE DUCT LINER WHERE SPECIFIED. SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.

HANGERS - DUCTWORK SHALL BE SUPPORTED WITH STANDARD GALVANIZED BAND IRON HANGERS. ALL HANGERS SHALL BE SECURE AND PROPERLY CONNECTED TO STRUCTURAL BEAMS. FLEXIBLE DUCTWORK SHALL BE SUPPORTED AS SHOWN IN THE FLEXIBLE DUCTWORK SUPPORT DETAIL. SHARP BEND, KINKS & CONDITIONS THAT RESTRICT AIR FLOW IN ANY WAY WILL NOT BE ACCEPTED.

OFFSETS - ALL REQUIRED OFFSETS ARE NOT SPECIFICALLY SHOWN ON THESE DRAWINGS. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND BE SATISFIED THAT HE HAS INCLUDED ALL NECESSARY OFFSETS IN HIS BID. ALL RISES AND DROPS IN RECTANGULAR DUCTWORK SHALL HAVE RADIUS FITTINGS.

PRESSURE TESTING - TEST LOW PRESSURE DUCTWORK AS PER SMACNA STANDARDS. THE PRESSURE TEST SHALL BE DONE BEFORE THE DUCTWORK HAS BEEN INSULATED AND BEFORE THE CEILINGS HAVE BEEN INSTALLED.

<u>SUPPLY REGISTER</u> - INSTALL SUPPLY REGISTERS AS SHOWN ON THE DRAWINGS, UNLESS OTHERWISE NOTED. THIS CONTRACTOR SHALL FURNISH AND INSTALL SUPPLY REGISTERS AS SHOWN ON THE DRAWINGS. REGISTERS SHALL HAVE OPPOSED BLADE DAMPERS IF NOT SHOWN ON PLANS. COLOR AND FINISH AS APPROVED BY

RETURN GRILLES - THIS CONTRACTOR SHALL FURNISH AND INSTALL RETURN GRILLES AS SHOWN ON THE DRAWINGS.

SECTION THREE (PIPING)

NATURAL GAS PIPING SYSTEM - PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE HVAC EQUIPMENT AND EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

SECTION FOUR (TAB WORK)

TESTING AND BALANCING: CONTRACT DIRECTLY A THIRD PARTY TO PROVIDE TEST AND BALANCE OF THE HVAC SYSTEM. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE TEST AND BALANCE. TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH NEBB OR AABC, AND ASHRAE STANDARDS, ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF CONTROLS. SUBMIT COMPLETED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR AABC CERTIFICATION. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIR FLOWS INDICATED ON THE DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

**GENERAL NOTES** 

CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. THE CONSTRUCTION DOCUMENTS INDICATE APPROXIMATE LOCATION OF EXISTING DUCTWORK AND ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND ROUTING OF THE EXISTING SYSTEMS. VERIFY WITH ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND MECHANICAL DRAWINGS FOR DUCT SIZES. FIELD VERIFY PRIOR TO BIDDING PROJECT.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.

CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC. AT NO ADDITIONAL COST.

ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS.

SUBMIT TO ARCHITECT FIVE (5) COPIES OF EQUIPMENT SPECIFICATIONS FOR REVIEW (AND/OR) APPROVAL.

SUBMIT TO ARCHITECT FIVE (5) COPIES OF ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS.

SUBMIT TO ARCHITECT FIVE (5) COPIES OF COORDINATED SHOP DRAWINGS FOR REVIEW. THE SHOP DRAWINGS SHALL INDICATE DUCT, LAYOUTS, DIFFUSERS AND THERMOSTAT LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION. SHEET METAL SHOP DRAWINGS SHALL BE PREPARED AT 1/4" PER FOOT SCALE.

AFTER COMPLETION OF WORK SUBMIT AS BUILTS COORDINATED DRAWINGS. THESE DRAWINGS SHALL BE PREPARED ON CAD AND SUBMIT COMPUTER DISK TO ARCHITECT/OWNER. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.

PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT.

BALANCING CONTRACTOR SHALL UTILIZE THE DUCT DAMPERS AND BRANCH SPLITTERS TO SET INITIAL VOLUMES. DIFFUSERS AND GRILLE DAMPERS SHALL BE USED FOR FINE TUNE ADJUSTMENTS. FAN SHORTAGE SHALL BE REPORTED TO THE ARCHITECT/OWNER.

THE DRAWING INDICATES GENERAL CHARACTER AND

**OUTLETS LOCATION WITH ARCHITECT'S REFLECTED CEILING** 

LOCATION OF WORK INCLUDED, BUT HAVING MINOR SPECIALTIES OMITTED WHICH ARE TO BE PROVIDED WITHOUT EXTRA COST. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AIR

PLANS. AIR OUTLETS SHALL BE CENTERED IN CONNECTION TO OTHER BUILDING ELEMENTS. LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA AND ASHRAE

RECOMMENDATIONS. ALL NEW DUCT TURNS, ELBOWS, ETC., SHALL BE INSTALLED WITHOUT TURNING VANES WITH MINIMUM 6" RADIUS

ALL LOW PRESSURE FLEXIBLE DUCT CONNECTIONS FROM RECTANGULAR DUCTWORK WITH THERMAFLEX TYPE M-KE (PRE-INSULATED) ALL FLEX DUCT ON SUPPLY. NO SINGLE CONNECTION TO EXCEED 5'-0" IN LENGTH, ON LONGER CONNECTIONS. THE DIFFERENCE IN LENGTH SHALL BE MADE UP WITH 24 GAUGE LOCK GROOVED LONGITUDINAL SEALED SEAM GALVANIZED ROUND DUCTWORK. SECURE WITH SNAPLOCK STAINLESS STEEL CLAMPS.

CONTRACTOR SHALL FURNISH AND INSTALL A MANUAL VOLUME DAMPER. OR A SPLITTER DAMPER IN EACH NEW LOW PRESSURE DUCT TAKE-OFF AND AT EACH NEW RETURN/EXHAUST OPENING. FURNISH AND INSTALL A SPIN COLLAR DAMPER (SCD) OR OVAL COLLAR DAMPER (OCD) AS

PROVIDE ALL HOLES, SLEEVES, AND CAULKING FOR INSTALLATION OF THIS WORK, CAULKING TO CONFORM TO FIRE RATING OF WALLS.

REQUIRED.

2021 IECC - MINIMUM PROJECT REQUIREMENTS

 MINIMUM ONE TEMPERATURE CONTROL DEVICE PER SYSTEM. 2. MINIMUM ONE HUMIDITY CONTROL DEVICE PER INSTALLED

HUMIDIFICATION/ DEHUMIDIFICATION SYSTEM.

. AUTOMATIC CONTROLS: SETBACK TO 55 DEGREES F (HEAT) AND 85 DEGREES F (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP.

b. EXCEPTION: 2 KW DEMAND OR LESS. 4. AUTOMATIC SHUT-OFF DAMPERS ON EXHAUST SYSTEMS AND

SUPPLY SYSTEMS WITH AIRFLOW > 300 CFM.

a. EXCEPTION: CONTINUOUSLY OPERATING ZONES.

5. OUTSIDE-AIR SOURCE FOR VENTILATION; SYSTEM CAPABLE OF REDUCING OSA TO REQUIRED MINIMUM.

6. R-6 SUPPLY AND RETURN AIR DUCT INSULATION IN UNCONDITIONED SPACES R-8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING R-12 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY. a. EXCEPTION: DUCTS LOCATED WITHIN EQUIPMENT.

b. EXCEPTION: DUCTS WITH INTERIOR AND EXTERIOR TEMPERATURE DIFFERENCE NOT EXCEEDING 15 deg F

7. DUCTS SEALED - LONGITUDINAL SEAMS ON RIGID DUCTS; TRANSVERSE SEAMS ON ALL DUCTS; UL 181A OR 181B TAPES AND a. EXCEPTION: CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES W.G. PRESSURE

8. MECHANICAL FASTENERS AND SEALANTS USED TO CONNECT DUCTS AND AIR DISTRIBUTION EQUIPMENT.

9. OPERATION AND MAINTENANCE MANUAL PROVIDED TO BUILDING

10. BALANCING DEVICES PROVIDED IN ACCORDANCE WITH IMC 603.15.

11. STAIR AND ELEVATOR SHAFT VENTS ARE EQUIPPED WITH MOTORIZED DAMPERS.

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> KIRIL GEORGIEV IVANO LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

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REVISIONS

DESCRIPTION

06.10.2024

Project Number:

24-144C1

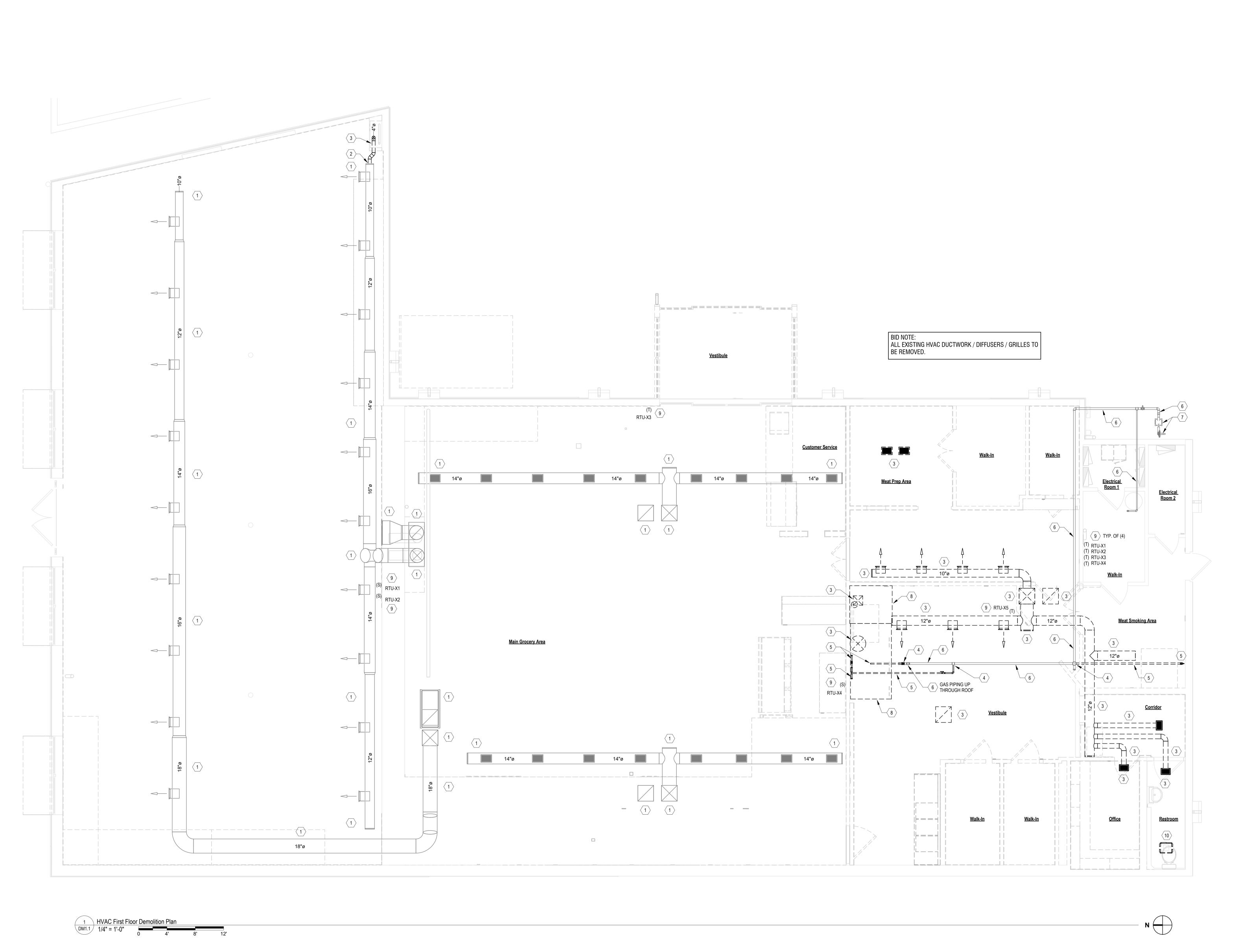
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M0.1





- 1 EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO
- REMAIN.

  2 CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL
- DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
   CAP EXISTING PIPE AT LOCATION SHOWN AND REMOVE ALL
- PIPING, VALVING, HANGERS, ETC. SHOWN DASHED BEYOND THIS POINT.

  5 REMOVE ALL PIPING, VALVING, HANGERS, ETC. SHOWN DASHED.
- 6 EXISTING PIPING AND VALVING TO REMAIN.
  7 EXISTING GAS SERVICE PRESSURE REGULATOR AND GAS
- 8 REMOVE EXISTING KITCHEN EXHAUST HOOD, HANGERS, SUPPORTS, ASSOCIATED FIRE SUPPRESSION SYSTEM, TANKS,
- PIPING, NOZZLE HEADS, CONTROLS, ETC.

  9 REMOVE EXISTING THERMOSTAT / TEMPERATURE SENSOR INCLUDING ALL ASSOCIATED CONDUIT, WIRING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN THERMOSTAT AND

THE UNIT IT CONTROLS. PROVIDE BLANK COVER PLATE OVER ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO

10 REMOVE EXISTING CEILING EXHAUST FAN, HANGERS, SUPPORTS, AND CONTROLS.

(DESIGN FIRM LIC. #184.007234)

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Elmhurst, Illinois 60126
p: 708-277-9086

e: info@daegroup.net

KIRIL GEORGIEV IVANOV LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

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# DAE Group

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HVAC First Floor Demolition Plan

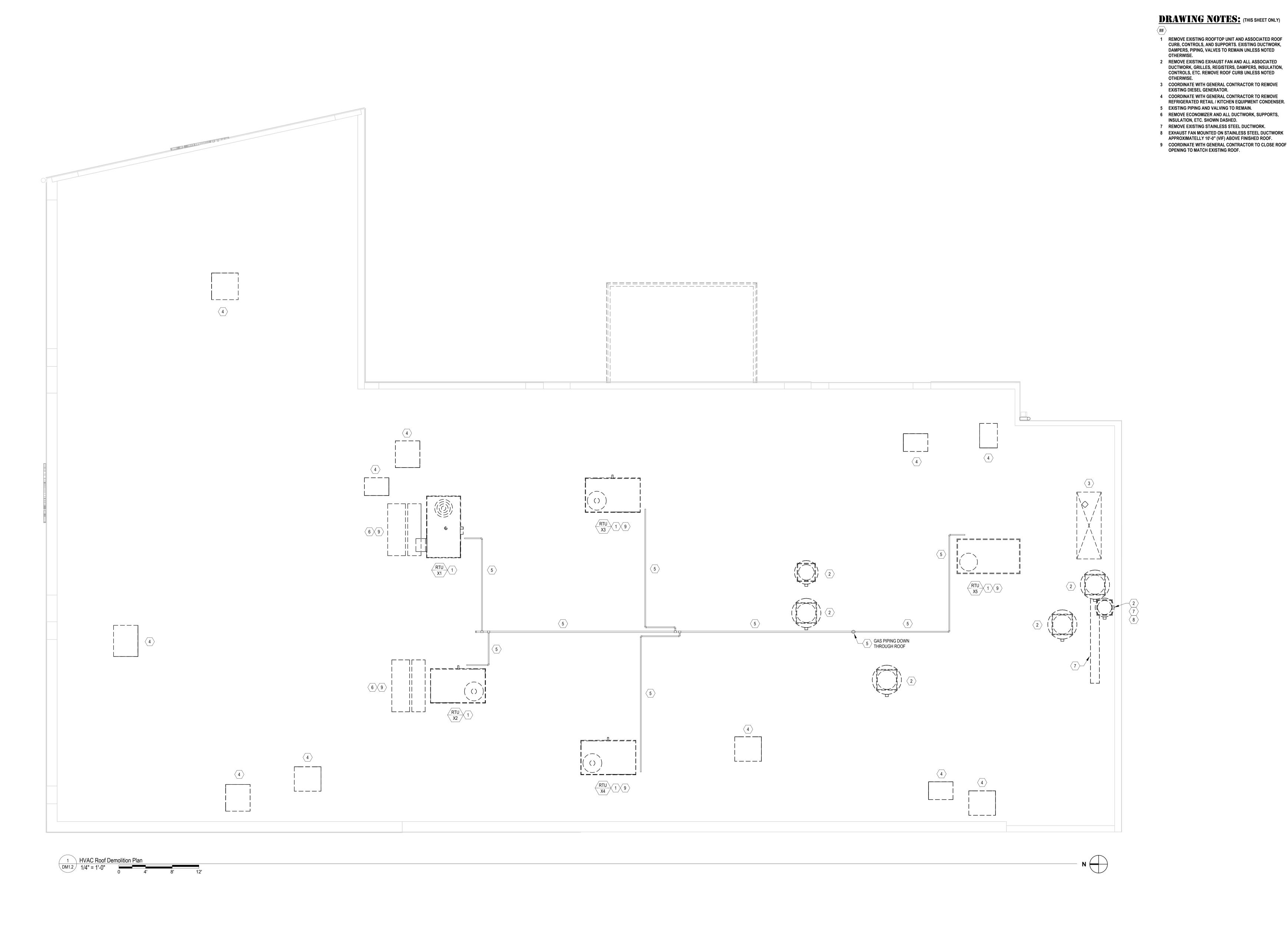
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- 1 REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED ROOF CURB, CONTROLS, AND SUPPORTS. EXISTING DUCTWORK, DAMPERS, PIPING, VALVES TO REMAIN UNLESS NOTED
- 2 REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, GRILLES, REGISTERS, DAMPERS, INSULATION, CONTROLS, ETC. REMOVE ROOF CURB UNLESS NOTED OTHERWISE.
- 3 COORDINATE WITH GENERAL CONTRACTOR TO REMOVE EXISTING DIESEL GENERATOR.
- 4 COORDINATE WITH GENERAL CONTRACTOR TO REMOVE REFRIGERATED RETAIL / KITCHEN EQUIPMENT CONDENSER. 5 EXISTING PIPING AND VALVING TO REMAIN.
- 6 REMOVE ECONOMIZER AND ALL DUCTWORK, SUPPORTS,
- INSULATION, ETC. SHOWN DASHED. 7 REMOVE EXISTING STAINLESS STEEL DUCTWORK.
- APPROXIMATELLY 10'-0" (VIF) ABOVE FINISHED ROOF.
- 9 COORDINATE WITH GENERAL CONTRACTOR TO CLOSE ROOF OPENING TO MATCH EXISTING ROOF.

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**DM1.2** 

### ELECTRICAL SYMBOLS

BRANCH CIRCUIT PANELBOARD DISTRIBUTION PANELBOARD NON-FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH MAGNETIC MOTOR STARTER COMBINATION STARTER/DISCONNECT SWITCH SINGLE POLE MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION FOR FRACTIONAL SINGLE PHASE MOTORS. SINGLE POLE WALL SWITCH WHERE: 'a' IS THE DESIGNATION INDICATING WHAT LIGHTS ARE CONTROLLED BY THAT SWITCH LOW VOLTAGE LIGHT SWITCH LIGHT SWITCH WITH OCCUPANCY SENSOR LIGHT SWITCH WITH OCCUPANCY SENSOR - WALL MOUNTED RECEPTACLE (IG, GFI, AFI - TYPES AS SHOWN ON PLANS) 1' x 4' LED FIXTURE WHERE: 'F' IS THE FIXTURE TAG 'N' IS THE CIRCUIT NUMBER 'a' IS THE SWITCH DESIGNATION 1' x 4' LED EMERGENCY FIXTURE WHERE: 'EM' IS THE DESIGNATION FOR EMERGENCY PANEL 'N' IS THE CIRCUIT NUMBER IN THE EMERGENCY PANEL INDUSTRIAL LED FIXTURE WHERE: 'F' IS THE FIXTURE TAG 'N' IS THE CIRCUIT NUMBER 'a' IS THE SWITCH DESIGNATION CLOTHES DRYER RECEPT. 30A, 2P, GRD., 280V, 1Ø DIVIDED RACEWAY W/(4) RJ-45 JACKS AND (2) 20A, 1P ORANGE I.P. RECEPTS. STANDBY 120/6V CHICAGO APPROVED BATTERY ASSEMBLY SURE-LT OR EQ. W/(2) 25W FLD. LTS. SPEAKER PHONE OUTLET OCCUPANCY SENSOR - WALL MOUNTED OCCUPANCY SENSOR - CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTO CELL - CEILING MOUNTED SECURITY SYSTEM SENSOR DIMMER SWITCH

## PANELBOARD WIRING CONVENTION

POWER PACK - LIGHTING CONTROLS

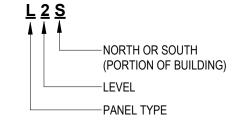
I.T. WALL JACK - COMMUNICATION SYSTEM

(TELEPHONE, TV AND COMPUTER JACKS)

WIRELESS ACCESS POINT

LOW VOLTAGE P.B. (120/6V) W/BELL & TRANSFORMER

AI PHONE



L2S = LIGTHING PANEL, 2ND FLOOR, SOUTH

TYPE

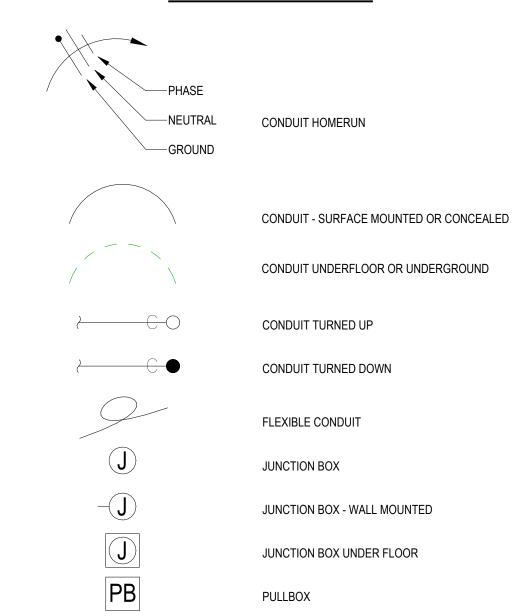
PANELBOARD
- POWER PANELBOARD
P - AIR CONDITIONING PANELBOARD

LIGHTING / GENERAL MAINTENANCE

#### **ABBREVIATIONS**

AMPS FVNR FULL VOLTAGE, NON REVERSING GROUND FAULT INTERRUPTER ATS AUTOMATIC TRANSFER SWITCH BPS BOLTED PRESSURE SWITCH GRD GROUND CONDUIT HP HORSEPOWER CCT CIRCUIT IG ISOLATED GROUND C/B CIRCUIT BREAKER J/B JUNCTION BOX CARBON MONOXIDE DETECTOR LTG LIGHTING M MOTOR CONTROL PANEL MCB MAIN CIRCUIT BREAKER COPPER CURRENT TRANSFORMER MCC MOTOR CONTROL CENTER DIA DIAMETER MCP MAXIMUM CIRCUIT PROTECTION DISCONNECT SWITCH MLO MAIN LUGS ONLY DIV DIVISION MECH MECHANICAL MOCP MAIN OVERCURRENT PROTECTION DWG DRAWING EC ELECTRICAL CONTRACTOR N NEUTRAL EQUIP EQUIPMENT O/H OVERHEAD EM EMERGENCY OL OVERLOAD EMERG EMERGENCY PB PUSHBUTTON EXIST EXISTING PL PILOT LIGHT FURNISH AND INSTALL PNL PANEL FUSE S SWITCH FDR FEEDER V VOLTS FLA FULL LOAD AMPS WP WEATHERPROOF FIXT FIXTURE W WATTS

## RACEWAYS AND WIRING



## POWER SYMBOLS

WALL FLOOR POKE- CEILING

| MOUNTED   | BOX                         | THROUGH              | MOUNTED  | DESCRIPTION  |
|---|-----------------------------|----------------------|----------|--|
| $\mapsto$   | <u> </u>                    | <b>⊕</b>             |          | DUPLEX RECEPTACLE  |
| <b>+</b>  | <u> </u>                    | <b>©</b>             | <b>(</b> | QUAD RECEPTACLE  |
| $\mapsto$   |                             | <b>⊙</b>             | $\Theta$ | SINGLE RECEPTACLE  |
| IG<br><del>L</del>  | IG                          | IG<br>⊚ <del>⊕</del> | IG       | ISOLATED GROUND DUPLEX RECEPTACLE  |
| IG<br>⊭ <b>⇔</b>  | IG<br><del>■</del>          | IG<br>⊕ <del>∯</del> | IG<br>⊕  | ISOLATED GROUND QUAD RECEPTACLE  |
| iG  | V IG                        | VIG<br><b>V</b> IG   | ↓<br>IG  | COMBINATION IG DUPLEX RECEPTACLE, DUPLEX RECEPTACLE AND TELEPHONE/ DATA SYSTEMS OUTLET |
| H   |                             | ••                   | •        | SPECIAL RECEPTACLE - REFER TO SPECIAL RECEPTACLE SCHEDULE                              |
| WP ADJACENT LETTERS IN THE SYMBOLS ABOVE INDICATE THE FOLLOWING:  "CR" INDICATES CHILD RESISTANT (SAFETY TYPE)  "CS" INDICATES CHARGING STATION  "E" INDICATES RECEPTACLE FED BY EMERGENCY CIRCUIT  "EP" INDICATES RECEPTACLE IS EXPLOSION PROOF  "EWC" INDICATES RECEPTACLE SERVES ELECTRIC WATER COOLER  "GFI" INDICATES RECEPTACLE HAS GROUND FAULT CIRCUIT INTERRUPTER  "IG" INDICATES RECEPTACLE HAS ISOLATED GROUND-COMPUTER  "TVS" INDICATES RECEPTACLE HAS TRANSIENT VOLTAGE SURGE SUPPRESSION  "WP" INDICATES RECEPTACLE HAS WATERPROOF COVER  "XX" INDICATES RECEPTACLE CIRCUIT NUMBER  "S" INDICATES RECEPTACLE IS SAFETY TYPE |                             |                      |          |  |
| <u>NOTE</u><br>1.<br>2.   | THIS IS A GE<br>TO THIS PRO | JECT AND DF          | RAWINGS. | REFORE SOME ITEMS MAY NOT DIRECTLY APPLY TIONS WHICH DO NOT APPLY TO THIS PROJECT.     |

#### M / E / P COORDINATION NOTES

EACH TRADE SHALL PREPARE COORDINATION DRAWINGS.

THESE DRAWINGS SHALL DETAIL ALL ELEMENTS, COMPONENTS, AND SYSTEMS OF THE APPLICABLE MECHANICAL, PLUMBING, AND ELECTRICAL TRADE.

DRAWINGS SHALL ALSO INDICATE THE WORK LOCATIONS OF OTHER TRADES AND INDICATE THEIR RELATIONSHIP IN ALL AREAS WHERE LIMITED SPACE REQUIRES DETAILED

ALL SYSTEM COMPONENTS OF TRADE BEING PRESENTED SHALL APPEAR DARK AND BE EASILY DISTINGUISHED FROM ARCHITECTURAL INFORMATION OR OTHER SYSTEM INFORMATION INCLUDED FOR COORDINATION PURPOSES.

ALL INFORMATION INCLUDED THAT IS NOT A PART OF THE SYSTEM BEING PRESENTED SHALL BE INDICATED LIGHT OR HALF TONE.

INDICATE LOCATIONS WHERE SPACE IS LIMITED FOR INSTALLATION AND ACCESS AND WHERE SEQUENCING AND COORDINATION OF INSTALLATIONS ARE OF IMPORTANCE TO THE EFFICIENT

 INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS. INCLUDE THE FOLLOWING:

FLOW OF THE WORK, INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- A. DUCTWORK MAINS AND BRANCHES, SIZE AND LOCATION, FOR BOTH EXTERIOR AND INTERIOR; LOCATIONS OF DAMPERS AND OTHER CONTROL DEVICES; FILTERS, BOXES, AND TERMINAL UNITS REQUIRING PERIODIC MAINTENANCE OR REPAIR.
- B. MAINS AND BRANCHES OF ALL PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE. INDICATE ACTUAL INVERTS AND HORIZONTAL LOCATIONS OF UNDERGROUND PIPING.
- C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

E. CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, INCLUDING TUBE REMOVAL,

- D. CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
- FILTER REMOVAL, ETC.

  F. EQUIPMENT CONNECTIONS AND SUPPORT DETAILS.
- G. EXTERIOR WALL AND FOUNDATION PENETRATIONS.

H. FIRE-RATED WALL AND FLOOR PENETRATIONS.

- I SIZES AND LOCATION OF REQUIRED CONCRETE DADS AND RASES
- I. SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
- J. VALVE STEM MOVEMENT.
- K. INDICATE LOCATION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC., WITH DIMENSIONS FROM PROMINENT BUILDING LINES; AND ELEVATIONS ABOVE CORRESPONDING FLOORS, ROOFS OR GRADE AS APPLICABLE.
- 2. INDICATE SCHEDULING, SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.
- 3. PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
- 4. PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS, DUCTWORK, LIGHT FIXTURES, PIPING, AND OTHER CEILING-MOUNTED ITEMS. DIMENSION ALL ITEMS FROM PROMINENT BUILDING LINES.
- 5. SUBMIT ALL COORDINATION DRAWINGS AND/OR SHOP DRAWINGS PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF ANY EQUIPMENT. ANY WORK STARTED OR EQUIPMENT PURCHASED PRIOR TO THE REVIEW OF SUBMITTED DRAWINGS BY THE ARCHITECT/ENGINEER IS DONE AT THE CONTRACTOR'S RISK. THE OFFENDING CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ALL CHANGES, MODIFICATIONS, AND/OR EXTRA SERVICES REQUIRED RESULTING FROM THE IMPROPER COORDINATION AND/OR IMPROPER SUBMITTAL PROCESS.
- 6. ENCIRCLE OR BUBBLE ANY REVISIONS MADE ON DRAWINGS BEING SUBMITTED MORE THAN ONE TIME. INDICATE ALL REVISIONS OR CHANGES MADE SUBSEQUENT TO THE PREVIOUS SUBMITTAL REVIEWED BY THE ARCHITECT/ENGINEER.

### **WORK IN EXISTING BUILDINGS**

- CONTRACTOR SHALL FIELD COORDINATE DUCT ROUTING WITH EXISTING STRUCTURAL, CONDUITS, PIPING, ETC. OFFSET, RISE/DROP AS REQUIRED.
- 2. CONTRACTORS ARE TO VISIT JOB SITE PRIOR TO BIDDING WORK. THEY ARE TO FAMILIARIZE THEMSELVES WITH JOB SITE CONDITIONS. CONTRACTORS ARE TO INCLUDE SUFFICIENT ALLOWANCES FOR ANY MODIFICATION OF PIPING AND

VENTILATION SYSTEMS THAT MAY BE REQUIRED DUE TO JOB SITE CONDITIONS.

- 3. ALL EQUIPMENT AND MATERIAL INDICATED ON THE DEMOLITION DOCUMENTS THAT IS TO BE REMOVED OR RELOCATED OR REUSED ARE SHOWN FOR THE CONVENIENCE OF THE BIDDERS. CONTRACTORS SHALL FIELD VERIFY ALL ITEMS PRIOR TO SUBMITTING A BID. REMOVE ALL ABANDONED DUCTWORK, PIPE AND FITTINGS THAT IS WITHIN THE CONFINES OF THE WORK AREA. IT IS THE INTENT OF THE DEMOLITION WORK TO INCLUDE THE REMOVAL OF ALL EXISTING DUCTWORK AND PIPING THAT IS NO LONGER REQUIRED FOR THE OPERATION OF MECHANICAL SYSTEMS. THE DUCTWORK AND PIPING WITH ITS ASSOCIATED HANGERS AND INSULATION IS TO BE REMOVED IN ITS ENTIRETY FROM THE BUILDING. ALL DEMOLISHED DUCTS AND PIPING ARE TO BE CAPPED AT THE PERIMETER, FLOOR OR CEILING OF THE PROJECT LIMITATIONS. EXISTING ROOF CURBS AND ROOF OPENINGS TO BE ABANDONED IN PLACE AS A RESULT OF EQUIPMENT REMOVAL SHALL BE CAPPED AND SEALED WEATHERTIGHT.
- 4. SOME OF THE EXISTING ITEMS AND EQUIPMENT SCHEDULES TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. ANY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL BE REMOVED CAREFULLY AS NOT TO DAMAGE THEM. ALL OTHER ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- 5. ALL EXISTING EQUIPMENT IS TO REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD. EXISTING SERVICES MAY BE SHUTDOWN ONLY FOR A SPECIFIC PERIOD OF TIME ONLY AFTER WRITTEN PERMISSION FROM THE OWNER IS OBTAINED.
- 6. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.

# ELECTRICAL DRAWING LIST

| ELECTRICAL DRAWING LIST |  |          |  |
|-------------------------|--|----------|--|
| SHEET                   | DESCRIPTION                                  | DATE     |  |
| E0.0                    | Electrical Symbols, Abbreviations, and Notes | 06/10/24 |  |
| E0.1                    | Electrical Specifications                    | 06/10/24 |  |
| DE1.1                   | Electrical Demolition Lighting Floor Plan    | 06/10/24 |  |
| DE2.1                   | Electrical Demolition Power Floor Plan       | 06/10/24 |  |
| DE2.2                   | Electrical Demolition Power Roof Plan        | 06/10/24 |  |

## **GENERAL NOTES**

- ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
- 2. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
- 3. THE CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THE CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT.
- 4. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
- 5. COORDINATE WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
- 6. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS. ALL WIRING SHALL BE ENCLOSED IN CONDUIT OR SURFACE METAL RACEWAY.
- 7. CONDUIT SHALL BE USED IN CONCEALED SPACES ONLY EXCEPT IN MECHANICAL AND ELECTRICAL SPACES. ALL OTHER SPACES SHALL USE SURFACE METAL RACEWAY. CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC.
- FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
- 9. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK/CASEWORK DETAILS.
- 10. REMOVE ALL ABANDONED CABLING, CONDUIT AND DEVICES IN THE RENOVATION PORTION OF THE BUILDING THAT ARE NOT BEING REUSED AS REQUIRED BY CHICAGO CODE
- 11. ALL BRANCH CIRCUITS, LIGHTING AND RECEPTACLES SHALL BE A MINIMUM OF #12
- 12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE, IF REQUIRED, ADJUSTMENTS (±) 6'-0" IN THE LOCATION OF ALL SYSTEM DEVICES, FIXTURES, OUTLETS, PANELS, ETC. IN ORDER TO EXPEDITE THE ELECTRICAL WORK. THE POSITION OF ALL WORK AS SHOWN IS INTENDED TO BE FIXED AND IN THE PROPER LOCATION. SUCH REQUIRED ADJUSTMENT SHALL BE DETERMINED BY THE A/E.
- SEE ARCHITECTURAL DWGS FOR EXACT LOCATION OF ELECTRICAL DEVICES. LOCATION OF DEVICES SHALL BE COORDINATED WITH ARCHITECT'S TO INSURE PROPER LOCATION AND HEIGHT.
- 14. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE-PROOFING ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS REQURED FOR ELECTRICAL WORK. SEE FIRE-PROOFING SPECIFICATIONS FOR REQUIREMENTS.
- 15. MOUNTING HEIGHTS SHOWN ON THIS SHEET SHALL BE SUPERSEDED BY ARCHITECTURAL ELEVATIONS AND NOTES.

U.N.O. AND SHALL HAVE GROUND CONDUCTORS.

- 16. NO EXPOSED CONDUITS TO BE USED. SURFACE WIREWAY TO BE USED WHERE CONDUIT CANNOT BE CONCEALED. ROUTING OF ALL SURFACE MOUNTED WIREWAY SHALL BE REVIEWED WITH THE ARCHITECT. ALL SURFACE MOUNTED WIREWAY SHALL BE PAINTED TO MATCH EXISTING FINISHES. SURFACE MOUNTED WIREWAY COLOR SHALL BE CONFIRMED WITH ARCHITECT.
- 17. PROVIDE NEW WIRES FOR ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- 18. SEE PANELBOARD SCHEDULES FOR REPLACEMENT OF OLD WIRING FOR ALL CIRCUITS. REUSE EXISTING CONDUIT WHERE POSSIBLE. PROVIDE NEW SURFACE MOUNTED WIREWAY IF EXISTING CONDUIT CAN NOT BE USED.

## ELECTRICAL DEMOLITION NOTES

- 1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION AND REMODELING WORK. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.
- 2. ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES SHALL REMAIN IN OPERATION DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES REQUIRED TO MAINTAIN THE CONTINUITY TO EXISTING EQUIPMENT SLATED TO REMAIN WHICH MAY BE AFFECTED BY THIS DEMOLITION. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE OWNER, AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON. INCLUDE ALL PREMIUM TIME CHARGES IN THE BASEBID.

3. WIRING FOR EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED AT SOURCE AND REMOVED. REMOVE EXISTING WIRING. EXISTING CONDUITS TO BE RE-USED WHERE NOTED. DISCONNECT AND REMOVE ALL CONDUITS THAT WILL NOT BE RE-USED.

4. CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES AS REQURED AND AS SHOWN ON THE DEMOLITION DRAWINGS. LEAVE POWER SOURCE JUNCTION BOXES AT ACCESSIBLE LOCATIONS FOR FUTURE ELECTRICAL CONNECTION EXTENSIONS. COVERPLATES SHALL BE PROVIDED FOR JUNCTION BOXES THAT HAVE HAD DEVICES/LIGHTS REMOVED WITH NO NEW REPLACEMENT IN KIND.

5. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING EQUIPMENT FOR THIS WORK, AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REINSTALLING, REPAIRING, OR REPLACING EQUIPMENT. DUCTWORK, PIPING, CONDUIT, WIRING AND OTHER COMPONENTS OF INTERFERING EXISTING SYSTEMS ABOVE AND BELOW FLOOR LEVEL, AS MAY BE REQUIRED FOR THE PERFORMANCE OF THE WORK.

6. ALL EXISTING ELECTRICAL SYSTEM CONTROL PANELS, DISCONNECT SWITCHES AND STARTERS, ETC. THAT ARE REMOVED SHALL BE SALVAGED AND DELIVERED TO THE PROJECT MANAGER OR REPRESENTATIVE ON SITE. PROPERLY DISPOSED OF EQUIPMENT NOT DESIRED BY PROJECT MANAGER.

7. ALL DEMOLITION WORK SHALL BE SCHEDULED SO AS NOT TO INTERRUPT SERVICE TO FACILITIES OPERATION. WHERE SERVICE INTERRUPTION TO THE FACILITIES OPERATION CAN IN NO WAY BE AVOIDED, THIS INTERRUPTION SHALL BE MADE WITH MINIMAL INCONVENIENCE TO THE FACILITIES OPERATION. CONTRACTOR SHALL INFORM BUILDING MANAGER BEFORE ANY SERVICE INTERRUPTION IS PERMITTED ADVANCE WRITTEN NOTICE OF SEVEN (7) WORKING DAYS FOR EACH INDIVIDUAL SERVICE INTERRUPTION.

8. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING ELECTRICAL EQUIPMENT, LIGHTING OR WIRING DEVICES TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS.

9. ALL CUTTING AND PATCHING OF EXISTING PLASTER, DRYWALL, WOOD, CONCRETE, ETC., FOR THE ELECTRICAL INSTALLATION IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. NOTIFY THE OWNER AND OBTAIN APPROVAL IN WRITING PRIOR TO CUTTING. CARE IS TO BE TAKEN THAT ALL CUTS OR CORING ARE TO BE SQUARE TO THE SURFACE, NO CHOPPING SHALL BE ALLOWED. ALL CUTTING AND CORING IS TO BE DONE WET IN ORDER TO MINIMIZE DUST.

10. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR REMOVAL OR RELOCATION OF EXISTING ELECTRICAL EQUIPMENT (FOR EXAMPLE: LIGHT FIXTURE, RECEPTACLES DEVICES, CONDUIT, AND WIRE) THAT WILL BE IN CONFLICT WITH NEW CONSTRUCTION. NO ADDITIONAL COST WILL BE PERMITTED FOR ANY WORK NOT COORDINATED DURING THE BID PROCESS.

11. ALL DEVICES THAT HAVE BEEN REMOVED FROM EXISTING WALLS AND CEILINGS. CONDUITS ABONDEDED THE E.C. SHALL COORDINATE WITH G.C. OF ALL THE THE PATCHING AND REPAINTING. NEW PAINT, PATCHING AND TILES SHALL MATCH EXISTING.

12. EXPOSED CONDUITS ABANDONED IN FLOOR SLAB SHALL BE CUT AT FLOOR LINE AT PATCHED. ALL THE THE PATCHING AND REPAINTING. NEW PAINT, PATCHING AND TILES SHALL MATCH EXISTING.



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# Library Board of Trustees

REVISIONS

| REV.        | DESCRIPTION | DATE    |
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Drawing Title:

Electrical Symbols, Abbreviations, and Notes

Project Title:

River Grove Public Library - Remodel

8301 Grand Avenue | River Grove, IL 60171

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## **ELECTRICAL SPECIFICATIONS**

- 1. THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THIS SPECIFICATION.
- 2. ALL WORK TO BE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE MOST RECENT EDITION OF LOCAL ELECTRIC CODE.
- 3. FURNISH ALL MATERIALS, EQUIPMENT, LABOR, & SERVICES REQUIRED FOR THE INSTALLATION OF ALL ELECTRICAL WORK & AS REQUIRED TO PROVIDE A COMPLETE & OPERABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS.
- 4. MATERIALS SHALL BE NEW W/ MANUFACTURERS NAME PRINTED THEREON & UNDERWRITERS LABORATORY LISTED. THE SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS. SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS.
- 5. SUBMIT MATERIAL LISTS AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE OWNER'S REPRESENTATIVE FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR THE STAMP OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY THE OWNER.
- 6. CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP & MATERIALS, USUAL WEAR EXCEPTED, & SHOULD ANY SUCH DEFECTS DEVELOP W/IN A PERIOD OF ONE YEAR ACCEPTANCE OF THE BLDG. BY THE YEAR, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS & DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.
- 7. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, OR MENTIONED IN THE SPECIFICATIONS, THAT CAN BE LEGITIMATELY & REASONABLE BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED & INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
- 8. NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS WITH STRUCTURE, MECHANICAL, OR OTHER FEATURES. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS & ARRANGEMENT OF INDICATED EQUIP., CONDUIT, OUTLETS, OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT COST TO OWNER.
- 9. CONTRACTOR SHALL FILE PLANS WITH AND OBTAIN APPROVALS FROM MUNICIPAL AGENCIES. ALL PERMITS AND CERTIFICATES OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- 10. PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING.
- 11. ANY FEES ASSOCIATED WITH CONSTRUCTION AND INSPECTION SHALL BE BORNE BY READY FOR OCCUPANCY AND 100% OPERATION.
- 12. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.
- 13. HE SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. HE SHALL ASCERTAIN CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED, INCLUDING THE HANDLING OF MATERIALS, SECURITY AND LIMITING FIELD DIMENSIONS. FURTHER, THIS CONTRACTOR SHALL PROVIDE FIELD VERIFICATION OF LOCATION OF POINTS OF CONNECTION TO LANDLORD'S ELECTRICAL AND TELEPHONE EQUIPMENT AND DISTANCE FROM LEASED SPACE.
- 14. ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS DISCOVERED AS A RESULT OF THE AFOREMENTIONED FIELD SURVEY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, PRIOR TO COMMENCING ANY WORK. ANY ADDITIONAL COSTS RESULTING FROM CONTRACTOR'S FAILURE TO DO SO SHALL BE HIS RESPONSIBILITY AND SHALL BE BORNE BY HIM.
- 15. ANY DEVIATION FROM PLANS WITHOUT PRIOR APPROVAL OF THE ARCHITECT SHALL BE CAUSE FOR THE REJECTION OF MATERIALS AND/ OR METHODS, AND ANY COST INCURRED TO CORRECT SUCH DEVIATION TO THE SATISFACTION OF THE A/E SHALL BE BORNE BY THE CONTRACTOR.
- 16. THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR, BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORSEEN HAD PROPER EXAMINATION BEEN MADE.
- 17. ANY COSTS INCURRED DUE TO LACK OF COOPERATION AMONG THE TRADES SHALL BE BORNE BY THE CONTRACTOR.
- 18. CONTRACTOR SHALL SUBMIT 6 COPIES OF SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR APPROVAL FOR ALL EQUIPMENT AND DEVICES INSTALLED.THERE WILL BE NO DRAW UNTIL SHOP DRAWINGS. HAVE BEEN SUBMITTED & REVIEWED BY ARCHITECT / ENGINEER.
- 19. THE EQUIPMENT ROUGH-INS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUB- SEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
- 20. PLAN AND INSTALL WORK IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, & KEEP OPENINGS & PASSAGEWAYS
- 21. ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES; AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED.
- 22. UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS AUTHORIZED, SHALL TURN OVER TO THE OWNER'S REPRESENTATIVE A RECORD SET OF PRINTS SHOWING THESE CHANGES.
- 23. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK HEREIN SPECIFIED.

OPERATING, SERVICING, MAINTAINING AND REPAIR.

- 24. ALL OPENINGS THROUGH STRUCTURALLY SUPPORTED SLABS MUST BE COREBORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND AT
- 25. ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE
- SEALED AFTER CONDUIT INSTALLATION TO RETAIN FIRE RATING. 26. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR
- 27. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE SECURED TO THE BUILDING STRUCTURE, NOT TO PIPING OR DUCTWORK.
- 28. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES AND SEPARATED AT LEAST 3" FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES.

- 29. EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER.
- 30. TEST ALL WIRES AND CABLES INSTALLED UNDER THIS CONTRACT WITH A 1,000 VOLT MEGAOHM METER. ANY READINGS THAT ARE LOWER THAN REQUIRED BY GOOD PRACTICE OR APPLICABLE CODES, PROMPTLY REPLACE THE MATERIALS OR EQUIPMENT INVOLVED.
- 31. SHOULD TESTING REVEAL ANY OTHER DEFECTS, PROMPTLY CORRECT SUCH DEFECTS AND RERUN TESTS UNTIL THE ENTIRE INSTALLATION IS SATISFACTORY IN
- 32. ALL ITEMS IN THE NOTES, SCHEDULES AND LEGEND MAY NOT NECESSARILY APPEAR ON THESE DRAWINGS.

33. TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR THE EQUIPMENT

- HEREIN INSTALLED SHALL BE GIVEN TO THE OWNER PRIOR TO ACCEPTANCE OF THE BUILDING FOR OCCUPANCY.
- 34. <u>GUARANTEE:</u>
- 35. CONTRACTOR IS TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE PROJECT BY THE OWNER. IT IS UNDERSTOOD BY HIS ACCEPTANCE OF THE CONTRACT THAT THIS CONTRACTOR WILL MAKE GOOD ANY AND ALL WORK WHICH IN ANY WAY HAS BECOME DEFECTIVE AS TO THE QUALITY OF MATERIALS AND WORKMANSHIP FOR ANY CAUSE OTHER THAN ORDINARY WEAR AND
- 36. FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
- 37. THE CONTRACTOR, BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED, SHALL CLEAN ALL LIGHTING FIXTURES, DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. HE SHALL INSURE THAT ALL DIRECTORIES ARE IN PLACE WITH COMPLETED OR REVISED SCHEDULES AND ALL IDENTIFICATIONS AND MARKINGS OF EQUIPMENT, CABLES AND OTHER ITEMS ARE COMPLETED.
- 38. THIS CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE OF MECHANICAL EQUIPMENT AND

FLUORESCENT FIXTURE BALLASTS, PRIOR COMMENCING ANY WORK.

COMPLETELY AND DISPOSED OF BY THIS CONTRACTOR.

- 39. NO REMOVALS SHALL BE MADE WITHOUT OWNER'S APPROVAL. ALL EXISTING EQUIPMENT, MATERIALS, ETC. THAT ARE NOT TO BE REUSED SHALL BE REMOVED
- 40. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY, PRIOR TO ANY INDIVIDUAL CIRCUIT'S INSTALLATION. TO VERIFY WITH ALL OTHER TRADES CONCERNED THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE IN SIZE AND MAKE-UP FOR THE MECHANICAL AND/OR KITCHEN EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY.
- CIRCUIT CHANGE DIRECTLY UPON THE CONTRACTOR. 41. REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS, UNITS AND OTHER SPECIAL EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS. JUNCTION BOXES AND DISCONNECT

FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT

- SWITCHES, THERMOSTAT AND CONTROL WIRING. 42. THIS CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY POWER AND SHALL PAY THE COST FOR THE UTILITY CONNECTION AND SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE TEMPORARY WORK AND FOR THE REMOVAL
- 43. CONTRACTOR SHALL PAY ALL UTILITY CHARGES IN CONNECTION WITH THE TEMPORARY POWER.
- 44. CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL POWER EQUIPMENT USED ON THE PREMISES DURING CONSTRUCTION.
- 45. GENERAL SCOPE OF WORK
- 46. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT AND FEES REQUIRED TO COMPLETELY INSTALL, TEST AND PLACE THE HEREIN SPECIFIED 89. WIRING DEVICES: EQUIPMENT, COMPONENTS, CONTROLS, AND SYSTEMS IN SERVICE.
- 47. COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEMS INCLUDING ALL PANELS AND COMPLETE BRANCH CIRCUIT WIRING SYSTEM.
- 48. TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR CONSTRUCTION.
- 49. COMPLETE LIGHTING FIXTURE INSTALLATION.
- COMPLETE UTILITY MOTOR WIRING SYSTEM (EXCEPT AS NOTED). 51. COMPLETE TELEPHONE CONDUIT SYSTEM INCLUDING CONDUIT FROM POINT OF CONNECTION TO UTILITY COMPANY SERVICE AND ALL TERMINAL DEVICES, BOXES,
- CONDUIT, PLATES, ETC.
- 52. PROVISIONS FOR FIRE ALARM SYSTEM AS REQUIRED BY CODE. 53. WIRING AND FINAL CONNECTION TO ALL SIGNS AND GRAPHICS.
- 54. TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.
- 55. TESTING OF ALL ELECTRICAL EQUIPMENT
- 56. WARRANTY OF ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF PROJECT
- 57. <u>ELECTRICAL SERVICE</u>
- 58. PROVIDE ELECTRICAL AS INDICATED ON THE DRAWINGS.

EXCEED THIS RATING PER N.E.C.

- 59. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR THE POWER
- COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. 60. CLOSELY COORDINATE ENTIRE INSTALLATION WITH THE POWER COMPANY.
- 61. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY FOR
- INSTALLATION OF METERING. 62. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SUPPLY TERMINALS FROM THE POWER COMPANY &/OR
- 63. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE UTILITY COMPANY FOR TELEPHONE SERVICE TO THE SPACE, CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION TO THE LEASED PREMISES SHALL BE PROVIDED WHERE REQUIRED FOR UTILITY COMPANY WIRES.

MALL/SHOPPING CENTER POWER SOURCE. THE SERVICE EQUIPMENT SHALL MEET OR

- 64. COORDINATE INSTALLATION OF TELEPHONE WORK AND INSTALL ALL CONDUIT FOR TELEPHONE SYSTEM.
- 65. OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND
- 66. PROVIDE INTERIOR TYPE 4-D PLYWOOD 24" X 24" TO SERVE AS TELEPHONE TERMINAL

- 67. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.
- 68. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, AND STATE ELECTRICAL CODE AND REGULATIONS.
- 69. PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE A PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL LOCAL BUILDING CODES AND REGULATIONS AND NATIONAL ELECTRICAL CODE LATEST EDITION.
- 70. MAIN GROUNDING SYSTEM SHALL BE SIZED TO CONFORM WITH SECTION 250, OF THE VILLAGE OF WHEELING ELECTRICAL CODE. PROVIDE CONDUIT TO PROTECT GROUND WIRE FROM DAMAGE TO AN AREA 6 FT. ABOVE FLOOR.
- 71. MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE
- 72. GROUND ALL 3 WIRE RECEPTACLES TO THE OUTLET BOXES.
- 73. GROUND NEUTRAL FROM THE TRANSFORMER CONNECTED TO WATER LINE.
- 74. GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL NON-METALLIC CONDUIT.
- 75. WHERE REQUIRED:
- 76. PROVIDE DRY-TYPE TRANSFORMER WHICH SHALL BE ENCLOSED, VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWING AS MANUFACTURED BY SQUARE-D OR EQUAL.
- 77. TRANSFORMER SHALL HAVE A MINIMUM OF 150 DEGREE, CLASS H INSULATION AND A MINIMUM OF (4) 2-1/2% TAPS BELOW AND (2) 2-1/2% TAPS ABOVE RATED PRIMARY
- 78. SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY.
- 79. <u>LIGHTING FIXTURES:</u>
- 80. THE CONTRACTOR SHALL PROVIDE A NEW LIGHTING FIXTURE OF THE TYPE SPECIFIED FOR EACH LIGHTING OUTLET SHOWN WITH COMPLETE LAMPS OR TUBES. ALL FIXTURES SHALL BE HUNG AND MOUNTED IN PLACE, PROPERLY WIRED, TESTED AND LEFT READY FOR OPERATION.
- 81. CONTRACTOR SHALL VERIFY LOCATION OF ALL PARKING LOT LIGHTS, MONUMENT SIGNS, AND PYLON SIGNS ON INDIVIDUAL SITE PLAN.
- 82. <u>PANELBOARDS:</u>
- 83. PANELBOARDS AND BREAKERS SHALL BE BY SQUARE-D OR EQUAL.
- 84. PANEL SHALL BE CIRCUITED SO THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES.
- 85. PANELBOARDS SHALL CONTAIN A TYPE WRITTEN DIRECTORY WITH A PLASTIC COVER AFFIXED TO THE INSIDE DOOR.
- 86. ALL PANELBOARDS AND EMERGENCY LIGHTING DISCONNECT SWITCHES SHALL BE LABELED WITH RESPECT TO THEIR TITLE, VOLTAGE AND PHASE; I.E. PANEL "A" 120/208/3Ø. LABEL SHALL BE PHENOLIC PLASTIC WITH MIN. 1" WHITE LETTERS AND BLACK BACKGROUND. LABELS SHALL BE PERMANENTLY FIXED TO THE EQUIPMENT.
- 87. LIGHTING PANELBOARD SHALL BE 3-PHASE, 4-WIRE DISTRIBUTED PHASE TYPE W/SOLID NEUTRAL GROUND LUG, GROUND BUS AND ALL BREAKERS SHALL BE BOLTED TYPE, THERMAL MAGNETIC WITH ALL TWO OR THREE POLE BREAKERS HAVING COMMON TRIP. CIRCUIT BREAKERS SHALL BE RATED FOR MINIMUM 10,000 AMP SYMMETRICAL SHORT CIRCUIT CURRENT AT 120/208V.
- 88. CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH
- 90. WALL SWITCHES, SINGLE POLE, DOUBLE POLE, AND THREE WAY SHALL BE GENERAL DUTY, FLUSH, TOGGLE SWITCHES; SPECIFICATION GRADE, 20A, 120/277V, WITH SCREW TERMINALS: MANUFACTURES SHALL BE HUBBELL, BRYANT, PASS & SEYMORE,
- 91. GENERAL DUTY DUPLEX RECEPTACLES SHALL BE 2-POLE, 3-WIRE GROUNDING TYPE, SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R UNLESS OTHERWISE INDICATED. MANUFACTURES SHALL BE HUBBELL, BRYANT, PASS AND SEYMORE, OR LEVITRON.
- 92. GROUND FAULT INTERRUPTER RECEPTACLE SHALL BE GENERAL DUTY, DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTER, FEED - THROUGH TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, GROUNDING TYPE UL-RATED CLASS A, GROUP 1, 20A, 120V, 60 HZ; WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING; WITH 5 MILLIAMPERES GROUND - FAULT TRIP LEVEL; IN NEMA 5-15R CONFIGURATION. MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS & SEYMORE, OR LEVITRON.
- 93. DUPLEX ISOLATED GROUND TYPE RECEPTACLE SHALL BE 2-POLE, 4-WIRE, 15A STRAIGHT BLADE DEVICE WITH SEPARATE ISOLATED GROUND AND BUILDING GROUND CONNECTIONS, IN NEMA 5-15R CONFIGURATION, AS MANUFACTURED BY HUBBELL
- 94. WIRING DEVICE ACCESSORIES INCLUDING ALL WALL PLATES SHALL BE PROVIDED AT EACH DEVICE. WALL PLATES SHALL BE SAME COLOR AS DEVICE AND MANUFACTURED AS A COMPANION TO THE DEVICE.
- 95. ANY ELECTRICAL OUTLETS WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. PROVIDE EITHER INDIVIDUAL GFI DEVICES OR GFI CIRCUIT BREAKERS, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OR SCHEDULES.
- 96. PROVIDE A 120 VOLT RECEPTACLE WITHIN 25 FEET OF ALL HVAC EQUIPMENT ON THE
- 97. ALL EXTERIOR RECEPTACLES AND DEVICES SHALL BE WEATHERPROOF.
- 98. ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC. SHALL BE SUPPORTED INDEPENDENT OF & ISOLATED FROM EQUIP. VIBRATIONS.
- 99. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED AS REQUIRED BY CODE OR SHOWN ON DRAWING. SWITCHES SHALL BE HEAVY DUTY, LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE-D, GENERAL ELECTRIC, OR
- 100. FURNISH AND INSTALL DUAL ELEMENT CURRENT LIMITING FUSES OF TYPE AND AMPACITY DESIGNED TO PROTECT SYSTEM AGAINST AVAILABLE SHORT CIRCUIT FAULT CURRENT.

- 101. COORDINATE ALL EQUIP. CONNECTIONS W/ EQUIP. SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITION FUSED DISCONNECT SWITCHES & CONTROLS IF OVERCURRENT PROTECTION OR CONTROLS ARE NOT INTEGRAL W/ UNITS.
- 102. ALL ELECTRICAL EQUIP, ON ROOF OR OUTSIDE THE BLDG. SHALL BE IN NEMA-3R OR

NEMA-4 ENCLOSURES.

REQUIRED BY N.E.C.

- 103. ALL EQUIP. SHALL BE FUSE SIZED PER MANUF. RECOMMENDATIONS & U.L. APPROVAL 104. ALL VIBRATING EQUIP. CONN. SHALL BE SEAL TYPE FLEX, 30" MAX.
- 105. STARTERS AND RELATED WIRING SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. OVERLOAD UNITS SHALL BE INSTALLED AS PER NAME PLATE DATA ON EQUIPMENT. EXCEPT FOR SUCH ITEMS AS ARE NORMALLY SUPPLIED WITH STARTERS INSTALLED (HVAC UNITS, DISH- WASHERS ETC.) AT THEIR POINT OF MANUFACTURE, ALL STARTERS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED.
- FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY. 106. ALL REMOTE EQUIPMENT ON ROOF OR GROUNDS SHALL HAVE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. FURNISH FUSED DISCONNECTS AS

CONCRETE WHEM RIGID METAL SHALL BE DEMANDED.

- 107. FULL LOAD AMPS (FLA) SIZES ARE BASED ON SPECIFIED EQUIP. DATA. CONTRACTOR SHALL VERIFY NAMEPLATE FLA OF EQUIP. SUPPLIED & COORDINATE ACCORDINGLY PER EQUIP. SUPPLIERS RECOMMENDATIONS.
- 108. ALL WIRING SHALL BE INSTALLED IN EMT TYPE CONDUIT, UNLESS RUNNING THROUGH
- 109. ALL CONDUIT & J-BOXES SHOWN SHALL BE CONCEALED WHEN POSSIBLE. WHEN NOT POSSIBLE, CONDUIT & J-BOXES MAY BE SURFACE MOUNTED W/ PERMISSION OF THE
- 110. INSULATE ALL CONDUIT PASSING THROUGH WALK-IN COOLER, FILL AROUND CONDUIT WITH DUCT-IN SEAL WHERE IT PASSES THROUGH COOLER WALL OR CEILING.
- 111. ALL EXTERIOR CONDUIT FOR WIRING SHOULD BE MINIMIZED BY ROUTING IN CEILING SPACE. NO EXTERIOR CONDUIT WILL BE ACCEPTED, UNLESS OTHERWISE NOTED.
- 112. PAINTING OF ELECTRICAL CONDUITS, ETC. IF REQUIRED, WILL BE BY THE GENERAL CONTRACTOR.
- 113. RACEWAYS SHALL BE SURFACE METAL TYPE OF THE SIZE AND CHANNEL REQUIRED FOR SERVICE, CONSTRUCTED OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8" MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8" O.C. PROVIDE FITTINGS INDICATED WHICH MATCH AND MATE WITH RACEWAY. FINISH WITH
- MANUFACTURER'S STANDARD PRIME COATING SUITABLE FOR PAINTING.
- 114. OUTLET BOXES AND COVERS SHALL BE ONE PIECE, GALVANIZED STEEL. 115. JUNCTION BOXES, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE
- 116. ALL FEEDERS & BRANCH CIRCUITS SHALL BE THHN / THWN (90° C). DESIGN IS BASED ON COPPER CONDUCTORS & ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRING SHALL BE IN CONDUIT OR MC TYPE.
- 117. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.
- 118. ADDITIONAL CONDUCTOR SPECIFICATIONS:

SHALL BE FURNISHED.

- 119. #12 AND SMALLER SOLID WITH SINGLE BRAID.
- 120. # 8 AND LARGER STRANDED WITH AT LEAST DOUBLE BRAID.
- 121. MINIMUM WIRE SIZE SHALL BE #12 (#14 MAY BE USED FOR CONTROLS). 122. WIRES SHALL BE COLOR CODED IN KEEPING WITH NEC STANDARDS.
- 123. PROVIDE IMC FOR FEEDER CONDUIT WHERE INSTALLED ABOVE GRADE. FITTINGS SHALL BE STEEL, THREADED, SET SCREW TYPE W/ INSULATED THROATS. FURNISH EMT CONDUIT OR BX OR MC FOR INTERIOR WIRING NOT SUBJECT TO PHYSICAL DAMAGE, MIN. CONDUIT SIZE SHALL BE 1/2 UNLESS SPECIFICALLY NOTED OTHERWISE. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE & SHALL RUN PARALLEL OR PERPENDICULAR TO BLDG. WALLS OR CEILING. PVC SCHEDULE 40 CONDUIT MAY BE USED FOR UTILITY FEEDERS WHERE BURIED UNDERGROUND. SEE
- ADDITIONAL RATES ON ELECTRICAL SERVICE SCHEMATIC. 124. A SEPARATE GREEN INSULATED EQUIP. GROUNDED CONDUCTOR (BOND) SHALL BE
- INSTALLED W/IN EVERY RACEWAY. 125. WIRING SHOWN IN THE PANEL SCHEDULE IS THE MINIMUM REQUIRED. RUNS IN
- EXCESS OF 90'-0" (ONE WAY) SHALL BE SIZED PER THE N.E.C. MAXIMUM 2% V.D. 126. TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS & MEGGAR TEST FEEDERS &
- BRANCH CIRCUIT WIRING. INSURE LOW IMPEDANCE GROUND PATH SYSTEM. 127. FINALLY: IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK
- 128. THE LOCATION OF RECEPTACLES AND FIXTURES SHOWN ON THE DRAWING IS APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY DEVICES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COSTS.

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LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

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DESCRIPTION Project Number:

05/06/2024

24-0011

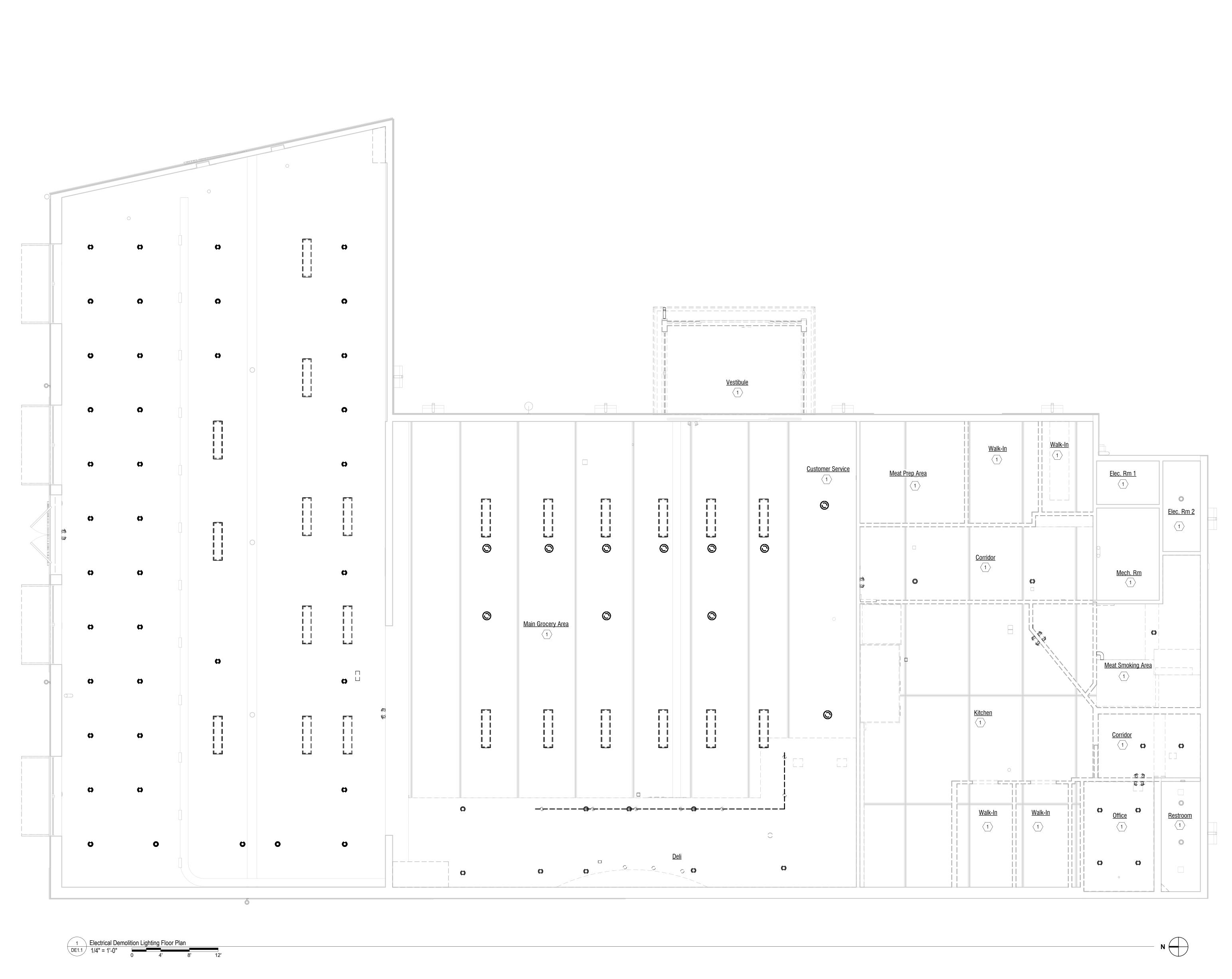
Drawing Title:

**River Grove Public Library - Remodel** 

8301 Grand Avenue | River Grove, IL 60171

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**EnviroControl** Systems Design, Inc. M,E,P & FP Consultant 3512 Prestwick Lane, Northbrook, IL 60062 ph. 847.348.1156 | mail.us@envirocontrol.us esign Firm Registration No.: 184.003813-0002



1 REFER TO ELECTRICAL DEMOLITION SCOPE BELOW.

## ELECTRICAL DEMOLITION SCOPE

#### **EXAMINATION WORK:**

**DEMOLITION OF WORK:** 

equipment and other Appliances etc.

operations.

A. Verify measurements, physical condition, existence of hazardous material, service voltage, and existing circuiting in field.

- B. Verify in field that abandoned/not in use wiring and equipment serve only abandoned facility.
- C. Demolition instructions are based on casual field observation.
- D. Report discrepancies to Architect/Engineer of Record before disturbing existing installation.
- E. Beginning of demolition means Contractor accepts existing conditions.
- A. Disconnect all electrical systems in walls, floors, and ceilings including but, not limited to:
- Remove Main Electrical Service from Com-Ed pole to Main Disconnect Switch Via Com-Ed Meter.
- Remove Distribution Boards and Panel Boards serving Lights,
- Receptacles, Mechanical equipment and other Appliances etc.
- 3. Remove all lighting branch circuits including, general lights, emergency and exit lights.4. Remove all branch circuits serving Receptacles, Mechanical
- B. Coordinate utility service disconnections/outages with Com-Ed.
- C. Provide temporary electrical service, wiring and connections to maintain existing systems (not affected by the demolition work) in service during demolition and new construction. When work must be performed on energized equipment or circuits, use licensed personnel experienced in such
- D. Perform removal work and disposal of equipment and materials containing toxic substances regulated per the Federal Toxic Substances Control Act (TSCA) and in accordance with applicable federal, state, and local regulations. Applicable equipment and materials may include, but are not limited to:
- PCB-containing electrical equipment, including transformers, capacitors, and switches.
- 2. PCB- and DEHP-containing lighting ballasts.
- 3. Mercury-containing lamps and tubes, including fluorescent lamps, high intensity discharge (HID), arc lamps, ultra-violet, high pressure sodium, mercury vapor, ignitron tubes, neon, and incandescent.
- E. Remove abandoned wiring in its entirety (including conduits, wires, disconnecting means) to source of supply.
- F. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.
- G. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.
- H. Disconnect and remove electrical devices and equipment serving Mechanical equipment that has been removed.

 K. Where necessary, extend existing installations using materials and methods compatible with existing electrical installations.

- I. Disconnect and remove abandoned light fixtures including brackets, stems, hangers, and other accessories.
- J. Repair adjacent construction and finishes damaged during demolition and extension work.

(DESIGN FIRM LIC. #184.007234)

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lectrical Demolition Lighting Floor Plan

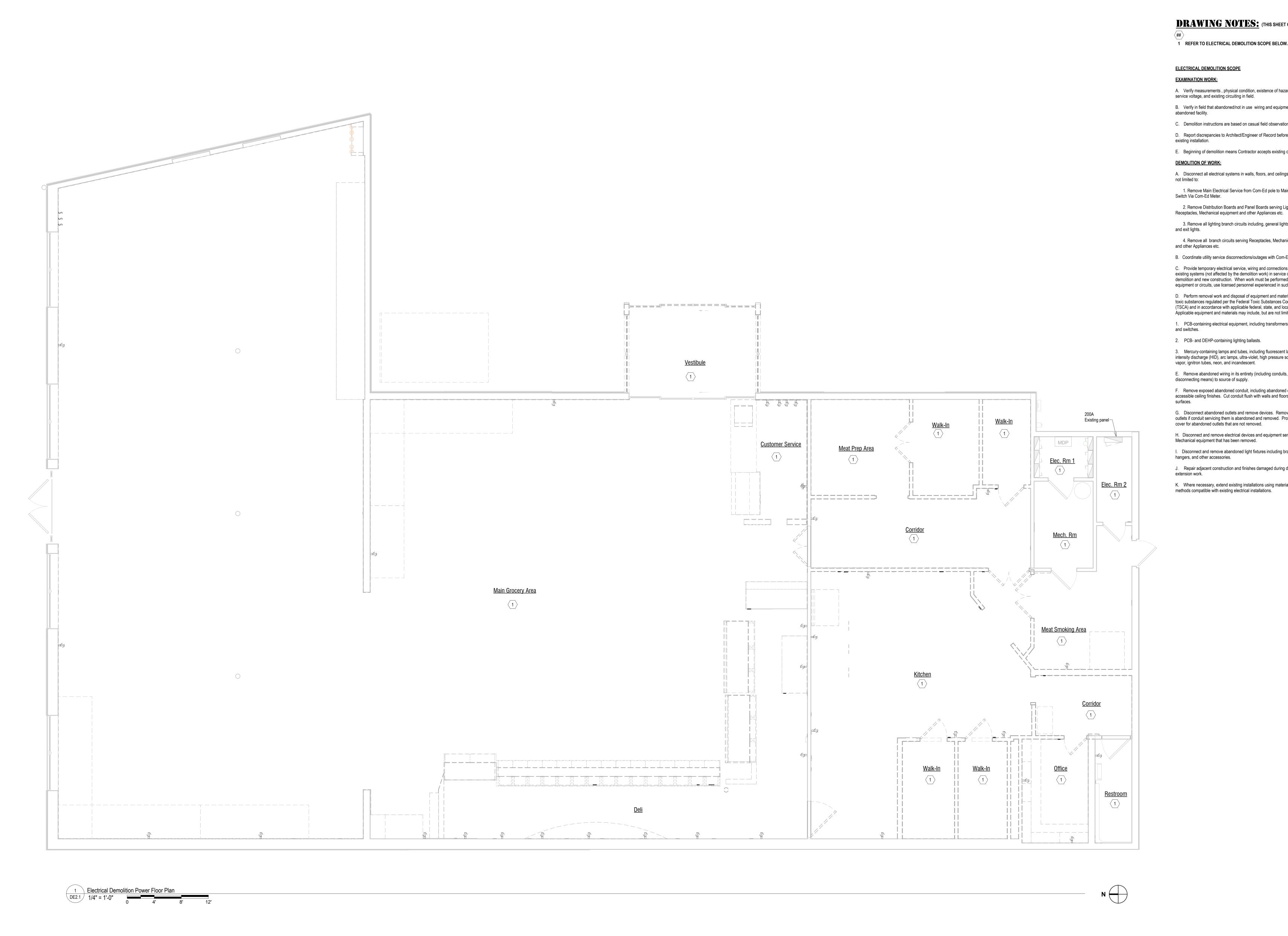
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River Grove Public Library - Remodel

8301 Grand Avenue | River Grove, IL 60171

**DE1.1** 





#### **ELECTRICAL DEMOLITION SCOPE EXAMINATION WORK:**

A. Verify measurements , physical condition, existence of hazardous material, service voltage, and existing circuiting in field.

B. Verify in field that abandoned/not in use wiring and equipment serve only abandoned facility.

C. Demolition instructions are based on casual field observation.

D. Report discrepancies to Architect/Engineer of Record before disturbing

#### E. Beginning of demolition means Contractor accepts existing conditions. **DEMOLITION OF WORK:**

A. Disconnect all electrical systems in walls, floors, and ceilings including but,

1. Remove Main Electrical Service from Com-Ed pole to Main Disconnect Switch Via Com-Ed Meter.

2. Remove Distribution Boards and Panel Boards serving Lights,

3. Remove all lighting branch circuits including, general lights, emergency and exit lights.

4. Remove all branch circuits serving Receptacles, Mechanical equipment

B. Coordinate utility service disconnections/outages with Com-Ed.

C. Provide temporary electrical service, wiring and connections to maintain existing systems (not affected by the demolition work) in service during demolition and new construction. When work must be performed on energized equipment or circuits, use licensed personnel experienced in such operations.

D. Perform removal work and disposal of equipment and materials containing toxic substances regulated per the Federal Toxic Substances Control Act (TSCA) and in accordance with applicable federal, state, and local regulations. Applicable equipment and materials may include, but are not limited to:

1. PCB-containing electrical equipment, including transformers, capacitors, and switches.

2. PCB- and DEHP-containing lighting ballasts.

Mercury-containing lamps and tubes, including fluorescent lamps, high intensity discharge (HID), arc lamps, ultra-violet, high pressure sodium, mercury vapor, ignitron tubes, neon, and incandescent.

E. Remove abandoned wiring in its entirety (including conduits, wires, disconnecting means) to source of supply.

F. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch

G. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.

H. Disconnect and remove electrical devices and equipment serving Mechanical equipment that has been removed.

I. Disconnect and remove abandoned light fixtures including brackets, stems, hangers, and other accessories.

J. Repair adjacent construction and finishes damaged during demolition and extension work.

K. Where necessary, extend existing installations using materials and methods compatible with existing electrical installations.

1 REFER TO ELECTRICAL DEMOLITION SCOPE BELOW.



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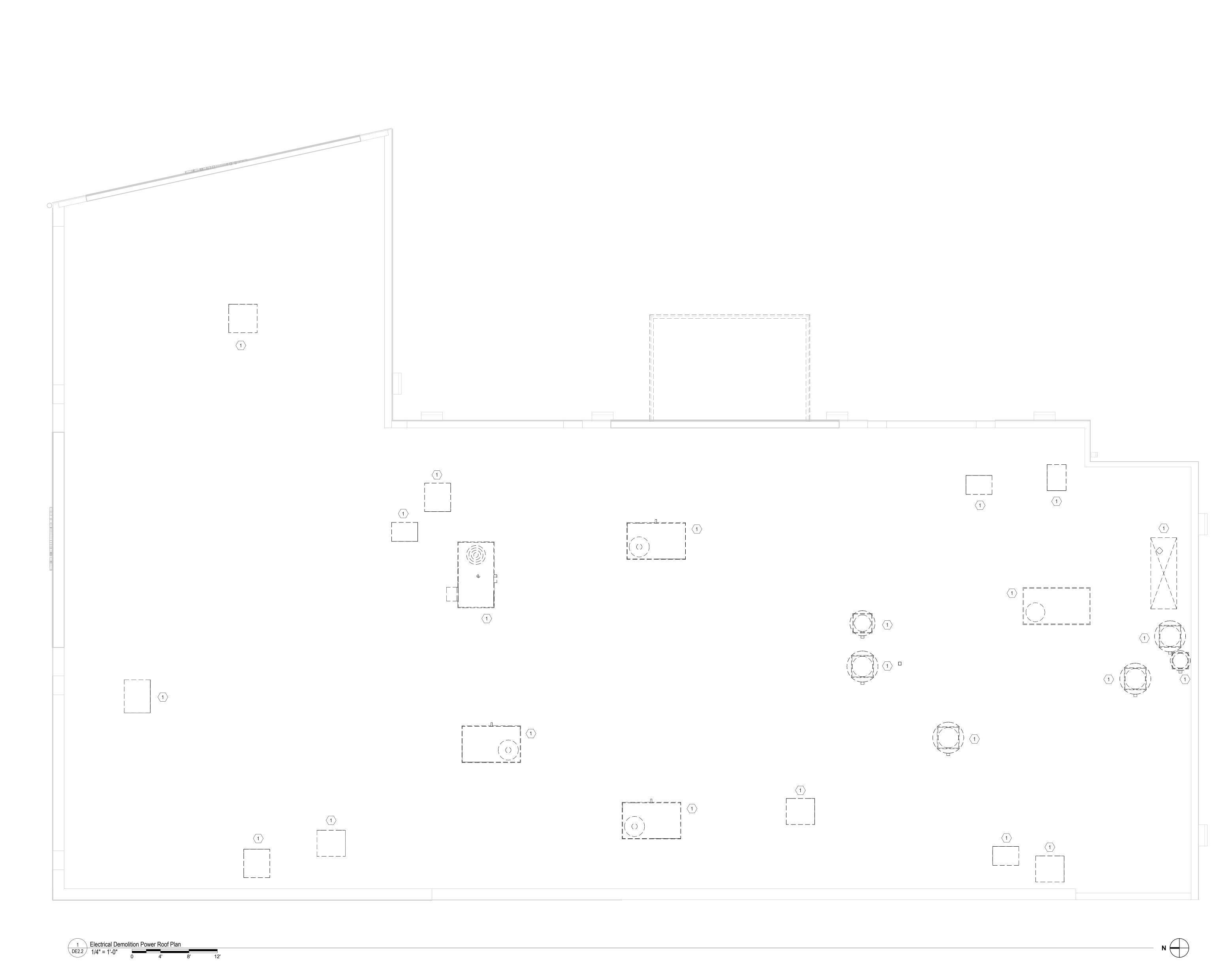
Power Floor Plan

**River Grove Public Library - Remodel** 

8301 Grand Avenue | River Grove, IL 60171

**DE2.1** 





1 REFER TO ELECTRICAL DEMOLITION SCOPE BELOW.

ELECTRICAL DEMOLITION SCOPE

EXAMINATION WORK:

A. Verify measurements , physical condition, existence of hazardous material, service voltage, and existing circuiting in field.

C. Demolition instructions are based on casual field observation.

B. Verify in field that abandoned/not in use wiring and equipment serve only abandoned facility.

D. Report discrepancies to Architect/Engineer of Record before disturbing existing installation.

E. Beginning of demolition means Contractor accepts existing conditions.

DEMOLITION OF WORK:

A. Disconnect all electrical systems on Roof including but, not limited to:

1. Remove Receptacles, Mechanical equipment and Emergency Diesel Generator

Remove all branch circuits serving Receptacles, Mechanical equipment and Emergency Diesel Generator etc.

B. Coordinate utility service disconnections/outages with Com-Ed.

C. Provide temporary electrical service, wiring and connections to maintain existing systems (not affected by the demolition work) in service during demolition and new construction. When work must be performed on energized equipment or circuits, use licensed personnel experienced in such operations.

D. Perform removal work and disposal of equipment and materials containing toxic substances regulated per the Federal Toxic Substances Control Act (TSCA) and in accordance with applicable federal, state, and local regulations. Applicable equipment and materials may include, but are not limited to:

1. PCB-containing electrical equipment, including transformers, capacitors, and switches.

2. PCB- and DEHP-containing lighting ballasts.

 Mercury-containing lamps and tubes, including fluorescent lamps, high intensity discharge (HID), arc lamps, ultra-violet, high pressure sodium, mercury vapor, ignitron tubes, neon, and incandescent.

E. Remove abandoned wiring in its entirety (including conduits, wires, disconnecting means) to source of supply.

F. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with roof, and patch surfaces.

G. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.

H. Disconnect and remove electrical devices and equipment serving Mechanical equipment that has been removed.

I. Disconnect and remove abandoned light fixtures including brackets, stems, hangers, and other accessories.

J. Repair adjacent construction and finishes damaged during demolition and extension work.

K. Where necessary, extend existing installations using materials and methods compatible with existing electrical installations.

(DESIGN FIRM LIC. #184.007234)

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KIRIL GEORGIEV IVANOV LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

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Electrical Demolition Power Roof Plan

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River Grove Public Library - Remodel

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**DE2.2** 



#### PLUMBING DEMOLITION NOTES

- 1. DEMOLITION INFORMATION SHOWN ON THE CONTRACT DOCUMENTS IS INTENDED TO BE SCHEMATIC IN NATURE AND MAY NOT ILLUSTRATE ALL MISCELLANEOUS WORK NECESSARY TO COMPLETE THE DEMOLITION AND NEW WORK. REFER TO ARCHITECTURAL DRAWINGS FOR INTENT OF FINAL CONSTRUCTION.
- 2. DEMOLITION INFORMATION SHOWN ON THE CONTRACT DOCUMENTS IS BASED ON A CURSORY REVIEW OF THE EXISTING CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS.
- 3. ALL PLUMBING FIXTURES REQUIRED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. THIS CONTRACTOR SHALL KEEP GENERAL CONSTRUCTION REMOVAL TO A MAXIMUM OF 8" AROUND EQUIPMENT, FIXTURE, AND/OR DEVICE.
- 4. THE DEMOLITION SCOPE OF WORK SHALL INCLUDE PATCHING OF ALL HOLES LEFT BY THE DEMOLITION WORK ON EXPOSED SURFACES TO MATCH EXISTING.
- 5. THIS CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DANGEROUS OR NON-CONFORMING CONDITIONS PRIOR TO PROCEEDING. EXISTING CONDITIONS SHOWN ARE CORRECT TO THE BEST KNOWLEDGE OF THE ARCHITECT/ENGINEER. IF ACTUAL CONDITIONS VARY, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING IN AFFECTED AREAS. WHERE EXISTING UTILITIES SHOWN ARE REQUIRED TO BE CAPPED, REMOVED, OR ALTERED, WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE PUBLIC UTILITY COMPANIES AND GOVERNMENTAL DEPARTMENTS. APPROPRIATE AUTHORITIES/AGENCIES SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WORK.
- . THIS CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND REMOVAL FROM THE SITE OF ALL CONSTRUCTION DEBRIS, SALVAGE MATERIAL, ETC., ON A DAILY BASIS AND AT THE COMPLETION OF THE WORK. ANY OF SAID MATERIALS, DEVICES, OR EQUIPMENT THAT THE OWNER REQUESTS TO BE RETAINED SHALL BE RELOCATED TO AN AREA DESIGNATED BY THE OWNER.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PLUMBING DEMOLITION/REMOVAL WORK AND FINISHING REQUIREMENTS.
- WORK. PERFORM ALL DEMOLITION AND REMOVAL OF DEBRIS RESULTING THEREFROM AND REQUIRED TO COMPLETE THE WORK. PATCH AND PAINT EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS TO MATCH EXISTING TEXTURE AND THICKNESS USING EXPERIENCED INSTALLERS. RESTORE TO ORIGINAL CONDITION AFTER INSTALLATION.

8. PERFORM ALL CUTTING, CORING, AND PATCHING REQUIRED TO COMPLETE THE

- 9. PROTECT ALL EXISTING PIPING, EQUIPMENT, AND FIXTURES TO REMAIN DURING DEMOLITION AND NEW WORK CONSTRUCTION PERIOD.
- 10. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
- 11. ALL EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM THE PREMISES. MATERIALS AND EQUIPMENT BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF.
- 12. PROVIDE SAFEGUARDS, INCLUDING WARNING SIGNS, BARRICADES, TEMPORARY FENCES, WARNING LIGHTS, AND OTHER SIMILAR ITEMS THAT ARE REQUIRED FOR PROTECTION OF ALL PERSONNEL DURING DEMOLITION AND REMOVAL OPERATIONS.
- 13. SEQUENCE OF ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND/OR AS DIRECTED BY THE CONSTRUCTION
- REMOVED SHALL BE SEALED TO MAINTAIN ANY FIRE RATINGS AND TO SEAL OFF COLD, SMOKE, AND TOXIC FUMES.

14. OPENINGS THROUGH FLOORS AND WALLS WHERE PIPING OR EQUIPMENT HAS BEEN

- 15. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING INSTALLATIONS NOT PERTINENT TO THE CONTRACT. THE COST OF REPAIRS TO SUCH DAMAGED WORK SHALL BE CHARGED AGAINST THE CONTRACTOR.
- 16. PROVIDE ALL CUTTING, CORING, PATCHING, AND FIRE SEALING AS REQUIRED FOR DEMOLITION WORK.
- 17. EXISTING FIXTURES AND/OR EQUIPMENT TO BE DISCONNECTED AND REMOVED FROM SITE, INCLUDING PIPING, INSULATION, VALVES, WIRING, CONDUIT, CONCRETE BASES. UNUSED CONNECTIONS, ETC. WITH ALL PIPING AND/OR CONNECTIONS CAPPED WITHIN CHASE WALL, FLOOR OR CEILING SPACE. THIS CONTRACTOR SHALL PERFORM MINOR RESTORATION, CUTTING, PATCHING, AND PAINTING OF EXISTING SURFACES WHICH IS NOT INCLUDED IN THE GENERAL CONTRACTOR'S WORK. COORDINATE MAJOR RESTORATION, CUTTING, PARCHING, AND PAINTING WHICH IS INCLUDED IN THE GENERAL CONTRACTOR'S WORK.
- 18. ALL PIPING BEING REMOVED MUST BE TAKEN BACK TO WITHIN 2' OF MAIN SOURCE, LEAVING NO DEAD ENDS.
- 19. PLUMBING DEMOLITION WORK SHALL INCLUDE PIPING, EQUIPMENT, VALVES, AND OTHER ACCESSORIES, ETC. IN SUPPORT OF HVAC EQUIPMENT BEING REMOVED.
- 20. CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY PLUMBING CODES, RULES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION OVER THE DEMOLITION WORK INDICATED.
- 21. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE LOCATIONS, SIZES, AND FIXTURE
- 22. ALL WORK SHALL BE PHASED TO MINIMIZE DISRUPTION OF ALL EXISTING FACILITY OPERATIONS. PROVIDE TEMPORARY PIPE CAPS AND CONNECTIONS AS REQUIRED TO MAINTAIN OPERATION OF EXISTING PLUMBING SYSTEMS. SHUTDOWN OF EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER AND SHALL OCCUR AT SUCH A TIME AS IS CONVENIENT FOR THE OWNER.
- 23. WHERE DEMOLITION OF FIXTURE AND REMOVAL OF PIPING OR OTHER ACCESSORY LEAVES AN OPENING IN THE FLOOR, WALL, OR CEILING, THE SAME SHALL BE PATCHED TO MATCH EXISTING ADJACENT SURFACE(S).

THE CONTRACTOR'S EXPENSE.

- 24. CONTRACTOR SHALL PROTECT ALL EXISTING BUILDING COMPONENTS FROM DAMAGE AT ALL TIMES. DAMAGE TO EXISTING BUILDING COMPONENTS RESULTING FROM DEMOLITION OR CONSTRUCTION WORK BEING PERFORMED SHALL BE REMEDIED AT
- 25. EXPOSED EXISTING PIPING NOT TO REMAIN IN USE SHALL BE REMOVED. DISCONNECT ABANDONED WATER PIPING FROM DISTRIBUTION SYSTEM AND DRAIN DOWN. CAP OR PLUG ALL UNUSED OPENINGS.

#### **ABBREVIATIONS**

MAX MAXIMUM

MIN MINIMUM

MB MOP BASIN

| AV    | ACID VENT         | PLBG | PLUMBING             |
|-------|-------------------|------|----------------------|
| AW    | ACID WASTE        | SH   | SHOWER               |
| CI    | CAST IRON         | SAN  | SANITARY             |
| CLG   | CEILING           | SK   | SINK                 |
| CO    | CLEAN OUT         | SLV  | SLEEVE               |
| CONT  | CONTINUED         | SPEC | SPECIFICATION        |
| CONTR | CONTRACTOR        | SS   | SERVICE SINK         |
| CP    | CUP SINK          | SSTL | STAINLESS STEEL      |
| CW    | COLD WATER        | TFA  | TO FLOOR ABOVE       |
| DET   | DETAIL            | TFB  | TO FLOOR BELOW       |
| DF    | DRINKING FOUNTAIN | TYP  | TYPICAL              |
| DIA   | DIAMETER          | UG   | UNDERGROUND          |
| DN    | DOWN              | UR   | URINAL               |
| DWG   | DRAWING           | V    | VENT                 |
| (E)   | EXISTING          | VAC  | VACUUM               |
| EXIST | EXISTING          | VB   | VACUUM BREAKER       |
| FCO   | FLOOR CLEAN OUT   | VTR  | VENT THRU ROOF       |
| FD    | FLOOR DRAIN       | W    | WASTE                |
| FFA   | FLOOR FROM ABOVE  | W/   | WITH                 |
| FFB   | FLOOR FROM BELOW  | WC   | WATER CLOSET         |
| GW    | GREASE WASTE      | WM   | WATER METER          |
| HS    | HAND SINK         | WH   | WATER HEATER         |
| HW    | HOT WATER         | (X)  | EXIST. TO BE REMOVED |
| HWR   | HOT WATER RETURN  |      |                      |
| LAV   | LAVATORY          |      |                      |
|       |                   |      |                      |

1. THIS IS A GENERAL SYMBOL LIST THEREFORE SOME ITEMS MAY NOT DIRECTLY APPLY TO THIS PROJECT AND DRAWINGS.

2. DISREGARD SYMBOLS AND ABBREVIATIONS WHICH DO NOT APPLY TO THIS PROJECT.

### **PIPING MATERIAL**

#### SANITARY WASTE, VENT PIPING

AFF ABOVE FINISHED FLOOR

AP ACCESS PANEL

ARCH ARCHITECTURAL

- 1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; LEAD AND OAKUM JOINTS, ASTM A74 2. COPPER TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS, ASTM B 88,
- 3. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS ASTM D2665.
- ABOVEGROUND DOMESTIC WATER PIPING

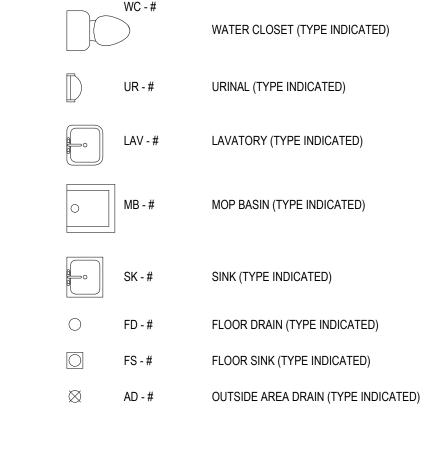
1. NPS 3" AND SMALLER: HARD COPPER TUBE, ASTM B88, TYPES K AND L; ASTM B88M. TYPE A AND B. COPPER PRESSURE FITTINGS: ASME B16.18, CAST-COPPER-ALLOY OR B16.22, WROUGHT-COPPER, SOLDER-JOINTS FITTINGS.

### INSULATION

1. DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK 7# DENSITY,

GLASS FIBER PRE-FORMED, ALL PURPOSE FLAME RETARDANT JACKET. 2. COLD WATER PIPING SHALL BE INSULATED WITH AS FOLLOWING: A. PIPING LESS 1 1/2" - WITH 1/2" THICK, 7# DENSITY, GLASS FIBER, PRE-FORMED ALL PURPOSE FLAME RETARDANT VAPOR BARRIER JACKET. B. PIPING 1 1/2" TO 4" - WITH 1" THICK, 7# DENSITY, GLASS FIBER, PRE-FORMED ALL

PURPOSE FLAME RETARDANT VAPOR BARRIER JACKET.



#### DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATION GREASE WASTE GREASE VENT SANITARY SEWER SANITARY VENT STORM PIPING

# **WORK IN EXISTING BUILDINGS**

- CONTRACTOR SHALL FIELD COORDINATE DUCT ROUTING WITH EXISTING STRUCTURAL, CONDUITS, PIPING, ETC. OFFSET, RISE/DROP AS REQUIRED.
- 2. CONTRACTORS ARE TO VISIT JOB SITE PRIOR TO BIDDING WORK. THEY ARE TO FAMILIARIZE THEMSELVES WITH JOB SITE CONDITIONS. CONTRACTORS ARE TO INCLUDE SUFFICIENT ALLOWANCES FOR ANY MODIFICATION OF PIPING AND VENTILATION SYSTEMS THAT MAY BE REQUIRED DUE TO JOB SITE CONDITIONS.
- 3. ALL EQUIPMENT AND MATERIAL INDICATED ON THE DEMOLITION DOCUMENTS THAT IS TO BE REMOVED OR RELOCATED OR REUSED ARE SHOWN FOR THE CONVENIENCE OF THE BIDDERS. CONTRACTORS SHALL FIELD VERIFY ALL ITEMS PRIOR TO SUBMITTING A BID. REMOVE ALL ABANDONED DUCTWORK, PIPE AND FITTINGS THAT IS WITHIN THE CONFINES OF THE WORK AREA. IT IS THE INTENT OF THE DEMOLITION WORK TO INCLUDE THE REMOVAL OF ALL EXISTING DUCTWORK AND PIPING THAT IS NO LONGER REQUIRED FOR THE OPERATION OF MECHANICAL SYSTEMS. THE DUCTWORK AND PIPING WITH ITS ASSOCIATED HANGERS AND INSULATION IS TO BE REMOVED IN ITS ENTIRETY FROM THE BUILDING. ALL DEMOLISHED DUCTS AND PIPING ARE TO BE CAPPED AT THE PERIMETER, FLOOR OR CEILING OF THE PROJECT LIMITATIONS. EXISTING ROOF CURBS AND ROOF OPENINGS TO BE ABANDONED IN PLACE AS A RESULT OF EQUIPMENT REMOVAL SHALL BE CAPPED AND SEALED WEATHERTIGHT.
- 4. SOME OF THE EXISTING ITEMS AND EQUIPMENT SCHEDULES TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. ANY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL BE REMOVED CAREFULLY AS NOT TO DAMAGE THEM. ALL OTHER ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- 5. ALL EXISTING EQUIPMENT IS TO REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD. EXISTING SERVICES MAY BE SHUTDOWN ONLY FOR A SPECIFIC PERIOD OF TIME ONLY AFTER WRITTEN PERMISSION FROM THE OWNER IS OBTAINED.
- 6. UNLESS INDICATED OTHERWISE. THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.

#### **GENERAL NOTES**

- 1. ALL KITCHEN SALES AND AREA EQUIPMENT WILL BE FURNISHED AND INSTALLED EXCEPT AS NOTED. EQUIPMENT WILL BE FURNISHED WITH TRIM AND FAUCETS. EXCEPT AS NOTED. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-IN TRAPS AND MAKE FINAL CONNECTIONS. 2. ALL PIPING IS SHOWN DIAGRAMATICAL, EXACT LOCATIONS SHALL BE DETERMINED
- IN THE FIELD. SEE FOUNDATIONS PLAN FOR CRITICAL DIMENSIONS. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH ALL TRADES BEFORE INSTALLATION.
- 3. ALL PIPING SHALL BE RUN CONCEALED UNLESS OTHERWISE NOTED.
- 4. ALL ELEVATIONS SHALL BE VERIFIED AT THE JOB SITE.
- 5. PROVIDE BACK-FLOW PREVENTER AT THE LOCATIONS REQUIRED BY CODES, AND ALL GOVERNING AUTHORITIES.
- 6. PROVIDE TRAP PRIMERS IF / AS REQUIRED BY LOCAL CODE.
- 7. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTORS EXPENSE.
- 8. SEE INTERIOR ELEVATIONS FOR DIMENSIONS EFFECTING THIS WORK.
- 9. COORDINATE, AS REQUIRED, TO ASSURE PROPER AND ADEQUATE PROVISIONS IN
- THE WORK OF THE TRADES FOR INTERFACE WITH THIS SYSTEM. 10. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND CITY OF
- CHICAGO BUILDING DEPARTMENT. 11. 5'-6" OF COVER WILL BE REQUIRED ON WATER SERVICES.
- 12. HOT WATER TEMPERATURE SHALL BE REGULATED TO 110 DEGREES AT ALL PUBLIC LAVATORIES.
- 13. PURPLE PRIMER AND STACK TEST WILL BE REQUIRED ON ALL PVC PIPING. 14. 100 lb. TEST WILL BE REQUIRED ON WATER PIPING AT TIME OF ROUGH
- INSPECTION.
- 15. MAXIMUM DEVELOPED LENGTH OF CLEAR WATER INDIRECT WASTE TO BE 15'-0". 16. FINAL PLUMBING CONNECTIONS TO ALL EQUIPMENT TO BE MADE BY LICENSED PLUMBER.
- 17. VACUUM RELIEF VALVE REQUIRED ON WATER HEATERS LOCATED ABOVE
- 18. ALL UNDER FLOOR DRAIN LINES TO BE 4". ALL NEW VENT LINES TO BE 2". VENT ALL FLOOR DRAINS AS REQUIRED BY LOCAL CODE. (TYPICAL)
- 19. SAW-CUT EXISTING CONCRETE SLAB AS REQUIRED TO INSTALL NEW WASTE PIPE AND PATCH FLOOR AS NECESSARY.
- 20. WASTE RECEPTORS SHALL BE EXTENDED NOT LESS THAN 1" ABOVE A WATER-IMPERVIOUS FLOOR.

### **DOMESTIC WATER GENERAL NOTES**

- 1. PROVIDE BACK FLOW PREVENTER AND SHUT-OFF VALVE ON ANY PIECE OF EQUIPMENT WITH DIRECT CONNECTION TO DOMESTIC WATER SYSTEM.
- 2. ALL WATER PIPE TO BE TESTED AT 100 PSI (AIR TEST, 1998 ILLINOIS PLUMBING CODE SECTION 890.1930-D).
- 3. ALL TYPES OF BACK FLOW/BACK SIPHONAGE DEVICES SHALL BE FIELD TESTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BY A CERTIFIED TES-TER BEFORE INITIAL OPERATION. FINAL PLUMBING IN-SPECTIONS WILL NOT BE APPROVED WITHOUT TESTER'S REPORT BEING SUBMITTED TO THE LOCAL PLUMBING INSPECTOR <u>PRIOR</u> TO FINAL INSPECTION.

## M / E / P COORDINATION NOTES

EACH TRADE SHALL PREPARE COORDINATION DRAWINGS.

THESE DRAWINGS SHALL DETAIL ALL ELEMENTS, COMPONENTS, AND SYSTEMS OF THE APPLICABLE MECHANICAL, PLUMBING, AND ELECTRICAL TRADE.

DRAWINGS SHALL ALSO INDICATE THE WORK LOCATIONS OF OTHER TRADES AND INDICATE THEIR RELATIONSHIP IN ALL AREAS WHERE LIMITED SPACE REQUIRES DETAILED COORDINATION.

ALL SYSTEM COMPONENTS OF TRADE BEING PRESENTED SHALL APPEAR DARK AND BE EASILY DISTINGUISHED FROM ARCHITECTURAL INFORMATION OR OTHER SYSTEM INFORMATION INCLUDED FOR COORDINATION PURPOSES.

ALL INFORMATION INCLUDED THAT IS NOT A PART OF THE SYSTEM BEING PRESENTED SHALL BE INDICATED LIGHT OR HALF TONE.

INDICATE LOCATIONS WHERE SPACE IS LIMITED FOR INSTALLATION AND ACCESS AND WHERE SEQUENCING AND COORDINATION OF INSTALLATIONS ARE OF IMPORTANCE TO THE EFFICIENT FLOW OF THE WORK, INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- 1. INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS. INCLUDE THE FOLLOWING:
- A. DUCTWORK MAINS AND BRANCHES, SIZE AND LOCATION, FOR BOTH EXTERIOR AND INTERIOR; LOCATIONS OF DAMPERS AND OTHER CONTROL DEVICES; FILTERS, BOXES, AND TERMINAL UNITS REQUIRING PERIODIC MAINTENANCE OR REPAIR.
- B. MAINS AND BRANCHES OF ALL PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE. INDICATE ACTUAL INVERTS AND HORIZONTAL LOCATIONS OF UNDERGROUND PIPING.
- C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- D. CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
- E. CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, INCLUDING TUBE REMOVAL, FILTER REMOVAL, ETC.
- F. EQUIPMENT CONNECTIONS AND SUPPORT DETAILS.
- G. EXTERIOR WALL AND FOUNDATION PENETRATIONS.
- H. FIRE-RATED WALL AND FLOOR PENETRATIONS.
- I. SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
- J. VALVE STEM MOVEMENT.
- K. INDICATE LOCATION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC., WITH DIMENSIONS FROM PROMINENT BUILDING LINES; AND ELEVATIONS ABOVE CORRESPONDING
- FLOORS, ROOFS OR GRADE AS APPLICABLE. 2. INDICATE SCHEDULING, SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE
- EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.
- PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
- PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS. DUCTWORK, LIGHT FIXTURES, PIPING, AND OTHER CEILING-MOUNTED ITEMS. DIMENSION ALL ITEMS FROM PROMINENT BUILDING LINES.
- 5. SUBMIT ALL COORDINATION DRAWINGS AND/OR SHOP DRAWINGS PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF ANY EQUIPMENT, ANY WORK STARTED OR EQUIPMENT PURCHASED PRIOR TO THE REVIEW OF SUBMITTED DRAWINGS BY THE ARCHITECT/ENGINEER IS DONE AT THE CONTRACTOR'S RISK. THE OFFENDING CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ALL CHANGES, MODIFICATIONS. AND/OR EXTRA SERVICES REQUIRED RESULTING FROM THE IMPROPER COORDINATION AND/OR IMPROPER SUBMITTAL PROCESS.
- 6. ENCIRCLE OR BUBBLE ANY REVISIONS MADE ON DRAWINGS BEING SUBMITTED MORE THAN ONE TIME. INDICATE ALL REVISIONS OR CHANGES MADE SUBSEQUENT TO THE PREVIOUS SUBMITTAL REVIEWED BY THE ARCHITECT/ENGINEER.

| PLUMBING DRAWING LIST |  |          |  |  |
|-----------------------|--|----------|--|--|
| SHEET                 | DESCRIPTION                                | DATE     |  |  |
| P0.0                  | Plumbing Notes, Symbols, and Abbreviations | 06/10/24 |  |  |
| DP1.1                 | Plumbing Demolition Floor Plan             | 06/10/24 |  |  |

### **PLUMBING NOTES**

- 1. THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS ISSUED BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.
- 2. THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COST.
- 3. ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL, ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCES, PRESERVE MAXIMUM
- 4. THIS CONTRACTOR SHALL MAKE ALL NECESSARY TAPS AS CALLED FOR ON THE CONTRACT DOCUMENTS.
- 5. ALL WORK SHOWN OR INDICATED ON THE PLAN SHALL BE LEFT CLEAN AND IN FULL OPERATING CONDITION AND FULLY TESTED.

HEADROOM, AND AVOID OMISSIONS.

- 6. THIS CONTRACTOR SHALL REMOVE ALL DEBRIS EACH DAY AND ON COMPLETION OF THE JOB AND CLEAN ALL FIXTURES.
- 7. INSULATE ALL HOT AND COLD WATER LINES. PIPE COVERING SHALL BE 1" THICK, 2.5 LBS. DENSITY FIBERGLASS WITH MOLDED FITTINGS AND BUTT JOINTS AND VAPOR
- 8. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO START UP, ADJUST, AND CHECK FOR PROPER OPERATION OF ALL EQUIPMENT INSTALLED UNDER THIS
- CONTRACT. 9. THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICE ON ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM
- 10. ALL WATER PIPING SHALL BE TESTED WITH WATER UNDER PRESSURE OF 150 PSI, AND MADE TIGHT AT THIS PRESSURE.

THE DATE OF FINAL ACCEPTANCE OF THE WORK BY OWNER.

- 11. ALL SOIL, WASTE AND VENT SHALL BE SUBJECTED TO A HYDROSTATIC TEST OF NOT LESS THAN 10 FEET OF WATER COLUMN, AND PROVEN TO BE WATER TIGHT.
- 12. BEFORE TURNING PLUMBING SYSTEM OVER TO THE OWNER, CHLORINATE ALL DOMESTIC WATER PIPING FOR A PERIOD OF 24 HOURS. AFTER CHLORINATION HAS BEEN COMPLETED, FLUSH ALL PIPING UNTIL WATER RUNS CLEAR AND IS RESIDUAL
- CHI ORINE FREE. 13. ALL PLUMBING WORK SHALL CONFORM TO THE APPLICABLE PLUMBING CODE REQUIREMENTS.
- 14. THIS CONTRACTOR SHALL PROVIDE FLOW RESTRICTORS ON WATER LINE AS PER APPLICABLE PLUMBING CODE.
- 15. ANY MINOR CHANGES IN LOCATION OF PIPING AND EQUIPMENT FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT COST TO THE OWNER IF SO DIRECTED BY THE ARCHITECT / OWNER BEFORE INSTALLATION.
- 16. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR METAL PIPING MATERIALS.
- 17. ALL FIXTURES SHALL BE NEW AND FREE FROM FLAWS OR BLEMISHES. ALL FINISHED SURFACES SHALL BE CLEAR, SMOOTH AND BRIGHT, AND GUARANTEED NOT TO CRAZE, DISCOLOR, OR SCALE. ALL FIXTURES, INCLUDING FAUCETS, ESCUTCHEON, WASTES, STRAINERS, TRAPS, SUPPLIES, STOPS, ETC., SHALL BE HEAVILY CHROME PLATED.
- 18. ALL FIXTURES AND EQUIPMENT SHALL BE SUPPLIED AND MANUFACTURED AS NOTED IN THE "PLUMBING FIXTURE AND EQUIPMENT SCHEDULE". NO SUBSTITUTIONS WILL BE ALLOWED TO THE FIXTURES AND EQUIPMENT NOTED UNLESS PRIOR APPROVAL IS GIVEN BY ARCHITECT / OWNER.
- 19. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY LOCATIONS. ELEVATIONS, AND CHARACTERISTICS OF UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- 20. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.

21. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH OWNER FOR WATER, SEWER,

SERVICE, AND CONNECTIONS, AND SHALL PAY FOR ALL FEES, CHARGES, AND PERMITS. 22. INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT, AND STRUCTURAL FRAMING. WATER AND DRAIN LINES ARE NOT

PERMITTED OVER OR UNDER ELECTRICAL PANELS.

- 23. THIS CONTRACTOR SHALL FURNISH AND INSTALL FAUCETS, TRAPS, STOPS, GATE VALVES, WATER HAMMER ARRESTERS, AND CLEANOUT COVERS. FURNISH AND INSTALL ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
- 24. DURING THE PROCESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES). MATERIALS, SIZES, AND HOOK-UP POINTS.
- 25. UPON COMPLETION OF PROJECT, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING FIXTURE INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
- ADDITIONAL COMPENSATION DUE TO HIS NEGLECT TO COMPLY WITH ALL OF THE FOREGOING REQUIREMENTS

26. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE GIVEN CONSIDERATION FOR

27. WHERE DRAWINGS, SPECIFICATIONS, AND NOTES CONFLICT WITH ONE ANOTHER THE CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF SUCH CONFLICTS.

28. PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE

OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT. 29. INSTALL FLUSH VALVES OR LEVER ON WIDE SIDE OF FIXTURES.

COMPONENTS AND OTHER SYSTEM INSTALLATIONS.

DETAILS.

CONTRACT.

- 30. LOCATE ALL VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILINGS SHALL BE WITHIN 18" OF CEILING. SEE DRAWINGS FOR LOCATIONS. 31. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE
- CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THESE PLANS. 32. PROVIDE PIPING EQUIPMENT AND MATERIALS IN ACCORDANCE WITH APPLICABLE

VERIFY EXACT LOCATIONS AND ELEVATIONS OF UTILITY TO BE CROSSED OR

BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION.

AND AS OTHERWISE RECOMMENDED OR DIRECTED BY MANUFACTURERS. 33. COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL

PLUMBING CODE REGULATIONS AND STANDARDS, AUTHORITIES HAVING JURISDICTION,

34. COORDINATE ALL FIXTURES, EQUIPMENT, AND PIPE ROUGH-IN CONNECTION LOCATIONS WITH ARCHITECTURAL DRAWINGS, TENANT'S REPRESENTATIVE, AND SUPPLIER OF EQUIPMENT PRIOR TO INSTALLATION.

35. ALL PIPING ROUTED THROUGH ROOF SHALL BE INSTALLED PER ARCHITECTURAL

- 36. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH RESTROOM FIXTURES AND TOILET PARTITIONS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO DOING
- ANY WORK. 37. INSTALL ALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE TO PRESERVE

MAXIMUM HEADROOM. HOLD TIGHT TO BOTTOM OF STRUCTURAL MEMBERS.

38. ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING WHERE POSSIBLE.

39. DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL EQUIPMENT PLAN FOR

EXACT LOCATION OF EQUIPMENT. 40. EXISTING UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY RESULT BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL EXISTING UNDERGROUND UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT NO EXTRA COST TO THE

## **BIDDING NOTE**

UNLESS INDICATED ON ARCHITECTURAL DRAWINGS. THIS CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION (INCLUDING BUT NOT LIMITED TO: CEILINGS, CEILING TILES, LIGHTS GRID, WALLS, FLOORS AND ROOF) REQUIRED TO ACCOMMODATE OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR,



TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

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LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

DAE Group

REVISIONS

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Drawing Title:

Project Title:

**River Grove Public Library - Remodel** 

8301 Grand Avenue | River Grove, IL 60171 Drawing Number:

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- 1 EXISTING 2" COLD WATER SERVICE TO REMAIN. EXISTING WATER
- METER, BACKFLOW PREVENTER TO REMAIN. 2 EXISTING WATER PIPING TO BE REMOVED FOR ENTIRE BUILDING. 3 EXISTING GAS WATER HEATER TO BE DISCONNECTED, REMOVED,
- AND REPLACED WITH A NEW GAS WATER HEATER. 4 EXISTING UNDERGROUND GREASE TRAP TO BE DISCONNECTED AND REMOVED. CAPPED EXISTING UNDERGROUND WASTE PIPING. VOID TO BE FILLED IN.
- 5 EXISTING THREE-COMPARTMENT SINK TO BE DISCONNECTED AND REMOVED. CAP UNUSED PIPING.
- 6 EXISTING PLUMBING FIXTURES TO BE REMAIN. RECONNECT EXISTING WATER CLOSET AND LAVATORY TO NEW WATER
- 7 EXISTING FLOOR DRAIN/OPEN SIDE DRAIN/TRENCH DRAIN BODY, P-TRAP TO BE DISCONNECTED AND REMOVED. EXISTING UNDERGROUND WASTE PIPING TO BE CAPPED.

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KIRIL GEORGIEV IVANOV LICENSED ARCHITECT: 001.023020 EXPIRATION DATE: 11/30/2024

**DAE Group** 

DESCRIPTION

24-144C1

Plumbing Demolition Floor Plan

River Grove Public Library - Remodel

8301 Grand Avenue | River Grove, IL 60171

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