PROJECT DESCRIPTION

The project scope consists of select demolition of existing walls, ceiling, lab casework, lab gas & electrical systems. Enlargement of lab alcove P15-9460E. Installation of new ceiling and light fixtures. It is assumed all other existing lighting to remain unmodified. Installation of new fume extraction arm in lab alcove P15-9460F. Installation of new lab sink and casework in P15-9460F. Installation of new partitions in procedure P15-9261. Modify existing power locations to accommodate removed items & new equipment. Modify existing HVAC & plumbing systems to accommodate removed items & new equipment. There will be no change in occupancy count and existing exiting will remain.

CH. 3 OCCUPANCY CLASSIFICATION AND USE

Occupancy classification and use remains unchanged.

CH. 5 BUILDING AREA

The building area remains unchanged as proposed.

CH. 6 CONSTRUCTION TYPE

Type of locating building elevation is construction type.

LEGEND - CODE FLOOR PLANS

- = Existing condition
- New condition
+ = New condition

SEPARATION LEGEND

- = Existing Travel Distance
- = Code Travel Distance

APPLICABLE CODES

- 2017 ICC/ANSI 117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
- INTERNATIONAL BUILDING CODE 2021
- INTERNATIONAL EXISTING BUILDING CODE 2021
- INTERNATIONAL MECHANICAL CODE 2021
- INTERNATIONAL PLUMBING CODE 2021
- INTERNATIONAL ENERGY CONSERVATION CODE 2021
- INTERNATIONAL FIRE CODE 2021
- NATIONAL FIRE PROTECTION CODE 2021
- NATIONAL FIRE PROTECTION CODE 2021 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NATIONAL FIRE PROTECTION CODE 2021 NFPA 70 NATIONAL ELECTRIC CODE
- NATIONAL FIRE PROTECTION CODE 2021 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
- LIFE SAFETY CODE 2021 NFPA 101

CH. 9 FIRE PROTECTION SYSTEMS

The building is fully sprinklered in accordance with 903.2 and 903.3.1.1 automatic sprinkler system per NFPA-13 to be modified as required.

CH. 10 MEANS OF EGRESS AND OCCUPANT LOAD

Occupant load remains unchanged, means of egress remains unchanged.

CH. 11 ACCESSIBILITY

Spaces within employee work areas shall only be required to comply with Section 907.5.3.1, 1009 and 1104.3.1. New construction to be designed and constructed so that individuals with disabilities can approach, enter and exit the work area.

1104.3.1 EMPLOYEE WORK AREAS EXCEPTION 1: Common use paths located within work areas that are less than 1,000 SF in size and defined by permanently installed partitions, counters, casework or furnishings, shall not be required to be accessible routes.

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PHYSIOLOGY MOVE

100% CONSTRUCTION DOCUMENTS
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SCALE: 1/8" = 1'-0"
**DEMO GENERAL NOTES**

- **A.** Coordinate all demolition and phasing efforts with the architect and owner's representative. Every effort shall be made to coordinate any disruption of utility services with the general public and as deemed necessary by the owner and as specified.
- **B.** Coordinate any disruption of utility services with the architect and owner's representative. In all cases, provisions shall be made for new or existing adjacent surfaces.
- **C.** Construct temporary construction partitions within and around the area to be demolished. Refer to renovation plan for phasing.
- **D.** Maintain a secure, weather-tight enclosure at all times.
- **E.** Verify all existing conditions, dimensions and equipment from damage due to any demolition or construction to match existing finishes.
- **F.** Patch and finish as required to match existing finishes.
- **G.** Verify existing materials shall not be reused unless noted otherwise or as authorized by architect.
- **H.** Provide protection for all existing building materials and equipment from damage due to any demolition or construction. Patch and repair walls for new finish.
- **I.** Repair or replace items that are damaged as a result of demolition or construction.
- **J.** Verify and maintain the location of existing power, communication and data cables to prevent further sequencing and scope of work.
- **K.** Verify and maintain the location of existing power, communication and data cables to prevent further sequencing and scope of work.
- **L.** Patch floor, wall and ceiling penetrations resulting in linear equipment.
- **M.** Cap all disconnected mechanical piping lines within the existing building which offer a one-hour enclosure.
- **N.** See mechanical and electrical drawings and notes for various conditions.
- **O.** Where plaster/stud walls are indicated to be removed, demolition notes apply to all demolition sheets.
ENLARGED FLOOR PLAN

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

ENLARGED REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"
GAS CYLINDER ALUMINUM WALL BRACKET WITHOUT MESSAGE.
CONTINUOUS 6" X 16 GA. SHEET METAL PLATES ANCHORED TO WALL.
ANCHOR SCREW.

UNDERMOUNT EPOXY SINK TO MATCH EXISTING PLUMBING CHASE 6" HIGH
REMOVABLE PARTIAL HEIGHT BACK PANEL FINISHED BASE (SEE ARCH. PLANS)
EPOXY BENCHTOP AND BACKPLASH TO MATCH EXISTING.
4" EPOXY BACK SPLASH SEE SINK LAYOUT FIXTURE TYPES.

FINISH TO MATCH EXISTING PULLS TO MATCH EXISTING 10"

EPOXY BACKSPLASH EPOXY COUNTERTOP WITH MARINE EDGE
UNDERMOUNT EPOXY SINK

TV - 0" 4"
3' - 0" 4"

LAYOUT FIXTURE TYPES.

DI-1 MF-1 EW-1 VAC N.GAS WALL MTD SINGLE GAS VALVE DECK MTD SINGLE FAUCET - SPECIALTY FAUCET (REFER TO PLUMBING)
DECK MTD MIXING FAUCET - HANDS FREE & WRIST BLADE CONTROLS DECK MTD SWING-DOWN EYE WASH

EPOXY BENCHTOP AND BACKPLASH TO MATCH EXISTING.

EPOXY BENCHTOP AND BACKPLASH TO MATCH EXISTING.

CRT-1 SINGLE CYLINDER RESTRAINT (REFER TO PLANS)
CRT-2 DOUBLE CYLINDER RESTRAINT (REFER TO PLANS)

SUSPENDED ACOUSTICAL PANEL CEILING
CONTINUOUS WALL ANGLE FACE OF WALL - SEE PLAN FOR WALL TYPE FINISH CEILING SEE RCP

BUILDING STRUCTURE UNISTRUT SUPPORT STRUCTURE EXHAUST FINISHED CEILING SEE MECHANICAL HVAC PLANS FOR EXHAUST CONNECTION
FINISH ESCUTCHEON

VARIES VARIES 15' - 10 1/2" 360° SWIVEL ELBOW TUBULAR KNEE BRACE ALL STEEL CONNECTIONS TO REQUIRE 3RD PARTY INSPECTION.

12700 E 19TH AVE AURORA, CO 80045
SCALE: 3" = 1'-0" A11.1
3E GAS CYLINDER DETAIL SCALE: 1 1/2" = 1'-0" A11.1
4E LAB - CASEWORK SECTION DETAIL
2E APC PERIMETR @ WALL TILE SCALE: 3/4" = 1'-0" A11.1
2D LAB - SNORKEL

INFOVATION 4" 4"
D1 - 1 MF - 1 EW - 1

PHYSIOLOGY MOVE 100% CONSTRUCTION DOCUMENTS
INTERIOR DETAILS

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37 - 24103 - 00 12/18/2023 9TH FLOOR
CU DENVER | ANSCHUTZ - 9TH FLOOR
12700 E 19TH AVE AURORA, CO 80045
INTERIOR FINISH PLAN GENERAL NOTES

A. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.

B. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER.

C. PATCH AND PAINT ALL EXISTING WALLS AS REQUIRED. ALL NEW WALLS TO BE PAINTED P-01.
<table>
<thead>
<tr>
<th>Equipment Name</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Dimensions (inches)</th>
<th>Clearance (inches)</th>
<th>Front</th>
<th>Rear</th>
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<tr>
<td>EQ-21</td>
<td>OFOI</td>
<td>sound cart</td>
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<td></td>
</tr>
</tbody>
</table>
A. REMOVE EXISTING SPRINKER HEADS AND PIPING THIS ROOM.

5. PROVIDE PROTECTION ABOVE AND BELOW CEILINGS WHEN/WHERE COMBUSTIBLE MATERIALS

8. WHERE CEILINGS ARE TO BE INSTALLED, SPRINKLER PIPING SHALL BE INSTALLED WITHIN THE

2. REFER TO STRUCTURAL TO COORDINATE PIPING LAYOUT WITH STRUCTURAL ELEMENTS OF THE

WHICH HAS A SUSPENDED CEILING.

SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM

ELECTRICAL AND DUCT CONNECTIONS.

EASY REMOVAL OF THE FILTER AND EASY ACCESS TO THE EQUIPMENT UNIT ACCESS

THE SYMBOLS AND ABBREVIATIONS

PIPING ANNOTATIONS

DESCRIPTION SCHEMATIC

SIDEWALL SPRINKLER HEAD - DRY
SIDEWALL SPRINKLER HEAD - WET
RECESSED SPRINKLER HEAD - DRY
PENDENT SPRINKLER HEAD - WET
FIRE DEPARTMENT CONNECTION
ALARM VALVE, DRY
BELOW GROUND PIPING
ABOVE GROUND PIPING

APPLICABLE CORES

PROJECT INFORMATION

GENERAL FIRE PROTECTION NOTES

FIRE PROTECTION SYMBOLS

PIPING VALVES AND FITTINGS

SHEET INDEX
LEVEL 9 - ENLARGED FIRE PROTECTION PLAN
GENERAL PLUMBING NOTES

1. LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR ACCESSIBLE. PROVIDE ACCESS TO THESE EQUIMENTS UNLESS THEY HAVE REQUESTED AND OBTAINED A WRITTEN EXCEPTION. RFIs RELATED TO COORDINATION ITEMS WILL NOT BE ACCEPTED.

2. PLUMBING PLANS ARE INTENDED TO SHOW SIZE, CAPACITY, AND LOCATION OF PIPING, PLUMBING FixTURES, AND EQUIPMENT. THEY ARE MEANT TO BE USED TO PLAN AND ORGANIZE THE INSTALLATION WORK.

3. COORDINATION: THE PLUMBING DESIGN SHALL BE COORDINATED WITH MECHANICAL AND ELECTRICAL DESIGNS. THE FLOOR PLAN, ELEVATIONS, AND CONSTRUCTION DRAWINGS MAY NOT BE AVAILABLE TO THE PLUMBING CONTRACTOR AT THE TIME OF THE PLUMBING CONTRACT. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE PLUMBING SPECIFICATIONS. RFIs RELATED TO COORDINATION ITEMS WILL NOT BE ACCEPTED.

4. SUPPORT VERTICAL RUNS OF PLASTIC, FRP, OR GLASS PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY. SUPPORT VERTICAL RUNS OF METALLIC PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

5. INSTALL HANGERS FOR METALLIC PIPE AND TUBING NOT TO EXCEED 1/2-INCH IN DIAMETER. USE HANGERS AS NECESSARY.

6. INSTALL HANGERS FOR PLASTIC, FRP, OR GLASS PIPING WITH THE FABRICATION, PURCHASE, AND INSTALLATION OF ALL COMPONENTS AND EQUIPMENT SHOWN.

7. INSTALL HANGERS FOR METALLIC PIPE AND TUBING NOT TO EXCEED 1/2-INCH IN DIAMETER. USE HANGERS AS NECESSARY.

8. SUPPORT VERTICAL RUNS OF METALLIC PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

9. SUPPORT VERTICAL RUNS OF PLASTIC, FRP, OR GLASS PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

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33. SUPPORT VERTICAL RUNS OF PLASTIC, FRP, OR GLASS PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

34. SUPPORT VERTICAL RUNS OF METALLIC PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

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36. SUPPORT VERTICAL RUNS OF METALLIC PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

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38. SUPPORT VERTICAL RUNS OF METALLIC PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.

39. SUPPORT VERTICAL RUNS OF PLASTIC, FRP, OR GLASS PIPING TO THE STRUCTURE OR TO WALLS. USE HANGERS AS NECESSARY.
LEVEL 9 - ENLARGED PLUMBING DEMOLITION PLAN

GENERAL NOTES

A EXISTING INFORMATION FROM RECORD SET 08/29/08, PLUMBING LEVEL 9.

B CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING; PIPING SIZE, LOCATION, ELEVATION, ROUTING.

C CONTRACTOR TO VERIFY EXISTING VALVES TO BE REUSED ARE IN GOOD WORKING CONDITION. IF VALVES ARE NOT IN GOOD WORKING ORDER NOTIFY ENGINEER AND REPLACE WITH NEW VALVE OF MATCHING STYLE AND SPECIFICATION.

SHEET NOTES

DP1 REMOVE EXISTING VAC INLET VALVE.

DP2 REMOVE EXISTING VAC PIPING IN CEILING AS SHOWN. CAP AT MAIN.

DP3 REMOVE EXISTING GAS OUTLET VALVE.

DP4 REMOVE EXISTING GAS PIPING IN CEILING AS SHOWN. CAP AT MAIN.

DP5 REMOVE EXISTING VAC INLET VALVE, REFER TO NEW PLANS FOR VALVE RE-INSTALLATION.

DP6 REMOVE EXISTING GAS OUTLET VALVE, REFER TO NEW PLANS FOR VALVE RE-INSTALLATION.

DP7 REMOVE EXISTING SERVICES (T, CW, HW, DI, G, VAC, CO2) IN CEILING SPACE, PRESERVE FOR REUSE IN NEW PHASE, REFER TO NEW WORK FOR NEW ELEVATION.
GENERAL NOTES

A EXISTING INFORMATION FROM RECORD SET 08/29/08, PLUMBING LEVEL 9.

B CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING; PIPING SIZE, LOCATION, ELEVATION, ROUTING.

C CONTRACTOR TO VERIFY EXISTING VALVES TO BE REUSED ARE IN GOOD WORKING CONDITION. IF VALVES ARE NOT IN GOOD WORKING ORDER NOTIFY ENGINEER AND REPLACE WITH NEW VALVE OF MATCHING STYLE AND SPECIFICATION.

SHEET NOTES

P3 1-1/2" W, 1-1/2" V. CONNECT WASTE TO EXISTING SERVICES BELOW FLOOR. CONNECT VENT IN CEILING SPACE.

P4 3/4" VAC CONNECT TO EXISTING SERVICES IN CEILING. EXTEND DOWN TO CEILING PANEL(S).

P5 EXTEND REVISED SERVICES (T, CW, HW, DI, G, VAC, CO2) IN CEILING SPACE, CONNECT TO EXISTING. COORDINATE EXACT ELEVATION WITH NEW CEILING HEIGHT AND SOUND BOTH.

P6 REINSTALL EXISTING VAC INLET VALVE AND GAS OUTLET VALVE ON NEW WALL. CONNECT TO ASSOCIATED SUPPLY PIPING.

P7 REINSTALL EXISTING VAC OUTLET VALVE ON NEW WALL. CONNECT TO ASSOCIATED SUPPLY PIPING.

P8 REINSTALL EXISTING PRESERVED PIPING AT NEW HIGHER ELEVATION. RECONNECT TO EXISTING SERVICE PIPING AT LOWER ELEVATION.
1. Refer to manufacturer's installation instructions for additional notations and installation instructions. Refer to architectural plans for mounting elevations.

2. Deck mounted with locknut and washer, polypropylene lined interior, brass body, gooseneck shape, nylon handle with index disc, compression diaphragm valve, serrated poly hose end.

3. Deck mounted, barrier free, 90° swing down activation, dual spray. Provide R or L per architectural elevation. Thermostatic mixing valve, below sink mounting, isolation valves, temperature outlet gauge, mounting bracket.

4. Deck mounted, 10" swing gooseneck, vacuum breaker, serrated nozzle, dual handle wristblade, colored index.

5. Architecturally provided counter sink, integral with countertop. Refer to architectural for additional information.

NOTES:

- Sink faucet Watersaver L2222VB deck mounted 12"x10"
- Emergency eyewash Watersaver EWBF849 deck mounted 14"x12"
- DI faucet Watersaver L7833 deck mounted 12.5"x6"
- Counter sink (manufacturer model, waste vent, connection, trim, electrical requirements, connections, notes)

GENERAL PLUMBING FIXTURE SCHEDULE

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<tr>
<th>MARK</th>
<th>FIXTURE DESCRIPTION</th>
<th>MANUFACTURER MODEL</th>
<th>TYPE</th>
<th>SIZE</th>
<th>WASTE VENT</th>
<th>CW</th>
<th>HW</th>
<th>TRIM</th>
<th>ELECTRICAL REQUIREMENTS</th>
<th>CONNECTIONS</th>
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<td>EEW-1</td>
<td>Emergency eyewash</td>
<td>Watersaver EWBF849</td>
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<tr>
<td>DI-1</td>
<td>DI faucet</td>
<td>Watersaver L7833</td>
<td></td>
<td></td>
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<tr>
<td>CS-1</td>
<td>Counter sink</td>
<td>(manufacturer model, waste vent, connection, trim, electrical requirements, connections, notes)</td>
<td></td>
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LEVEL 9 - ENLARGED HVAC PLAN

© DLR Group
DRAWBAND
SINGLE WALL ROUND SHEETMETAL DUCT
(RUNOUT DUCT SIZE SHALL BE SAME AS GRILLE NECK DIAMETER UNLESS NOTED OTHERWISE ON PLANS)
FLEXIBLE DUCT
RECTANGULAR
RETURN/EXHAUST AIR DUCT (ROUND SIMILAR)
BALANCING DAMPER
ELBOW CL RADIUS TO BE 1-1/2 TIMES DUCT DIAMETER
LAY-IN GRILLE
LAY-IN CEILING
SINGLE WALL ROUND SHEETMETAL DUCT
(RUNOUT DUCT SIZE SHALL BE SAME AS GRILLE NECK DIAMETER UNLESS NOTED OTHERWISE ON PLANS)
ELBOW CL RADIUS TO BE 1-1/2 TIMES DUCT DIAMETER
FLEXIBLE DUCT
RECTANGULAR
RETURN/EXHAUST AIR DUCT (ROUND SIMILAR)
LAY-IN GRILLE 6" PLENUM
LAY-IN CEILING
6" MIN.
1" MIN.
ADJUSTABLE VOLUME DAMPER
ROUND DUCT, SEE PLANS FOR SIZE
RECTANGULAR DUCT, SEE PLANS FOR SIZE
INLET DIAMETER OF TAKE-OFF FITTING TO BE 2" LARGER THAN OUTLET CONNECTION. IF MAIN DUCT SIZE WILL NOT PERMIT THIS LARGE AN INLET, SIZE-FABRICATE SPECIAL RECTANGULAR TO ROUND FITTING THAT HAS 50% MORE INLET AREA THAN OUTLET.
ACCOUSTICALLY LINED DUCT
FLEXIBLE CONNECTION
HEATING COIL
VAV AIR TERMINAL UNIT
AIR INLET DUCT
TRANSITION
DUCT AS INDICATED ON PLANS
NOTES:
1. DO NOT EXCEED ALLOWABLE LOAD LIMITS OF ANY OR ALL OF THE INDIVIDUAL TRAPEZE PARTS.
2. DO NOT PENETRATE DUCT OR DUCT INSULATION VAPOR BARRIER WHEN SECURING HANGERS TO DUCTWORK. EVENTUALLY THE PENETRATIONS WILL LEAK.
3. USE HANGER CLAMPS OR BANDS FOR ROUND DUCTS AS ROUND DUCT TENDS TO DEFORM ON TRAPEZE HANGERS.
4. TEARS, PUNCTURES, ETC. SHALL BE REPAIRED WITH TAPE OR MASTIC TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER.
5. DO NOT USE ANY STRAP HANGERS WITH SCREWS ON ANY DUCTWORK THAT IS EXTERNAL WRAPPED.

CHANNEL OR ANGLE ROD DUCT
LONG FLAT SPANS ON OVAL DUCT HAVE A TENDENCY TO SAG. OVAL DUCT WITH A MAJOR AXIS OF 42 INCHES OR MORE SHALL BE REINFORCED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS TYPE 2.

INSTALLATION REQUIREMENTS: (STRAIGHT DUCT, NOT TRANSITIONS, TAKE OFFS OR FITTINGS)
A = 3 x D
B = 3 x W
NOTE:
INSULATE OVER COIL AND COIL HEADERS TO PREVENT CONDENSATION WHEN IN COOLING MODE.
Sheets:

- **DE1**: Contractor to provide end caps for surface raceway where shortened.
- **DE2**: Maintain existing circuits for reuse.
- **DE3**: Remove all light fixtures and controls, return to owner for salvage. Maintain circuit for reuse.

Scale: 1/8" = 1'-0"
Lighting Plan - Level 9

Sheet Notes:

E1.0 Receptacle to be relocated to 7' aff to feed soundbooth.

E2 Switch shall be circuited to receptacle shown to control soundbooth. Extend existing circuit as needed to refeed receptacle.

E3 Provide power connection to prewired demountable wall at ceiling. Coordinate connection type with demountable wall manufacturer.

L1 Connect lighting fixtures and controls to existing lighting circuit serving space.

L2 New low voltage dimmer shall be wired to control fixtures in space. Occupancy sensor shall be programmed to turn off lights after 30 min of no motion.
GENERAL SINGLE LINE NOTES
PROJECT RESULTS IN NET REDUCTION OF ALL ELECTRICAL PANELS. ALL DEVICES AND MOUNTING DEVICES SHOWN REMAIN IN PLACE AND SHOWN FOR REFERENCE ONLY. ALL CIRCUITING TO BE REUSED.

LIGHTING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>MOUNTING</th>
<th>LAMP</th>
<th>OUTPUT (lm)</th>
<th>COLOR RENDERING INDEX (CRI)</th>
<th>VOLT</th>
<th>WATS</th>
<th>DIMMING</th>
<th>MFR</th>
<th>MODEL</th>
<th>NOTE</th>
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<tr>
<td>A1</td>
<td>2'X2', LENSED, RECESSED LED TROFFER, WITH SHALLOW HOUSING, SPECIFICATION GRADE, GRID TYPE. 4000K. RECESSED LED</td>
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<td></td>
<td>3300 lm</td>
<td>80</td>
<td>277 V</td>
<td>27 W</td>
<td>0-10V</td>
<td>LITHONIA</td>
<td>2BLT2</td>
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12/18/2023