#11- FIRE PROTECTION
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**Address:**
919 Middle St.
Middletown, CT
06457

**Designated by:**
AI Engineers
919 Middle St.
Middletown, CT
06457

**Engineers:**
Wendel

**Architect:**
Wendel

**Maintenance Facility:**

**Prepared for:**
WATERBURY BUS MAINTENANCE FACILITY REPLACEMENT

**Date:**
06/11/2014

**Estimated Quantities of Waterbury Bus 0431-0006**

**Actual Quantities of Work**

**Approved by:**
Engineers:

**Checked by:**

**REPLACEMENT**

**Designated by:**
AI Engineers
919 Middle St.
Middletown, CT
06457

**Date:**
2014.06.03
09:42:05 04'00"
SYMBOL LEGEND

TYPICAL FIRE PROTECTION NOTES

1. SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 30, FM GLOBAL DATA SHEETS AND THE CONNECTICUT STATE FIRE SAFETY CODE.

2. PROVIDE AUTOMATIC FIRE SPRINKLER SYSTEMS THROUGHOUT THE ENTIRE FACILITY. DRY FIRE SYSTEMS ARE NOT APPROVED.

3. PROVIDE SPRINKLER PROTECTION TO BUS MAIN ENTRANCE & EXIT, EMPLOYEE PARKING LEVEL, AT EXTERIOR DOOR LOCATIONS (FIRST TWO BAYS), AND OTHER AREAS SUBJECT TO FIRE EXPOSURE.

4. SUMMIT COPIES OF THE SPRINKLER AND STANDPIPE HYDRAULIC CALCULATIONS AND THE HAZARD CLASS IDENTIFIED FOR ALL SPACES. UPDATED WATER SUPPLY INFORMATION SHOP NOTES FOLLOWS FOR EACH LISTED COMPONENT. ALONG WITH DETAILED SHOP DRAWINGS WITH THE REQUIRED DATA OBTAINED BY CHAPTER 14 OF THE 2003 EDITION OF NFPA 13 AND CHAPTER 1 OF NFPA 14. SUBMITTED TO THE OFFICE OF STATE FIRE MARSHAL PRIOR TO ANY INSTALLATION.

5. CONTRACTOR SHALL PROVIDE THE FINAL SPRINKLER LAYOUT DRAWINGS INCLUDING HYDRAULIC CALCULATIONS AND OBTAIN APPROVAL OF STATE FIRE MARSHAL AND ALL AUTHORITIES HAVING JURISDICTION.

6. SPRINKLER SYSTEMS SHALL BE DESIGNED HYDRAULICALLY FOR UNIFORM DISCHARGE DENSITIES ON THE FOLLOWING BASIS: MAJOR AREAS LISTED BELOW. SEE EACH SHEET FOR INTEGRAL HAZARD OCCUPANCY.

A. WET SYSTEMS. DISCHARGE RATES SHALL BE AS FOLLOWS:

1. CLEARANCE: 5 GPM/1000 SQFT OVER 1500 SQFT
2. GARAGE MAINTENANCE AND BUS STORAGE AREA: 0.30 GPM/SQFT OVER 1000SQFT
3. FUELING AREA: 0.30 GPM/SQFT OVER 4000 SQFT
4. SPRINKLERS: 0.30 GPM/SQFT OVER 2500 SQFT
5. LAVATORY, 0.30 GPM/SQFT OVER 1000 SQFT
6. RESTROOMS: 0.30 GPM/SQFT OVER 2100 SQFT
7. FIRE STOREROOMS: 0.30 GPM/SQFT OVER 300 SQFT
8. FIRE HOSE STATIONS: 0.10 GPM/SQFT MAXIMUM 300 GPM
9. MECHANICAL ROOMS WITHOUT GAS-FIRED EQUIPMENT LIGHT HAZARD 0.10 GPM/SQFT
10. GAS-FIRED EQUIPMENT: 0.36 GPM/1000 SQFT
11. GAS-FIRED EQUIPMENT: 0.36 GPM/SQFT OVER 2500 SQFT
12. OTHER AREAS AS DETERMINED BY STATE FIRE MARSHAL

B. DRY SYSTEM FOR EMPLOYEE PARKING: 0.20 GPM/SQFT OVER 3500 SQFT

C. DRY SYSTEM FOR OVERHAUL DOOR AREA: 0.10 GPM/1000 SQFT OVER 4000 SQFT

D. MAXIMUM SPRINKLER HEAD-spacing: 12 SQ.FEET PER HEAD FOR ADMINISTRATION AREAS AND 10 SQ.FEET PER HEAD ALL OTHER AREAS.

E. SPRINKLER HEADS SHALL HAVE 1/2" ORIFICE WITH "F" FACTOR OF THE FOLLOWING:

1. 0.5 FOR MAIN ENTRANCE AND ADMINISTRATION
2. 0.3 FOR FUELING AREA, EMPLOYEE PARKING, BUS STORAGE, MAINTENANCE AREAS
3. 0.2 FOR INDIVIDUAL ROOMS.

F. SPRINKLER HEADS SHALL BE LARGER THAN Standard Area: Parts Cleaning Room: 150 PSIG 10" HIGH PRESSURE WASH EQUIPMENT ROOM, STORAGE BATTERY ROOM, AND OTHER SIMILAR AREAS.

G. PROVIDE CELLOPHANE BAG (THICKNESS .003 INCH) OVER SPRINKLER HEADS IN PAINT BOOTH, PAINT TRAY, PAINT EXHAUST AND PAINT HOSES.

H. PROVIDE SPRINKLERS, DRIER, EXHAUST, AND VACUUM SYSTEMS EQUIPMENT, AND RESISTIVE EQUIPMENT OVER 40" IN FINISH WIDTH, FOR DUCT AND EQUIPMENT LOCATIONS, SEE HVAC AND SERVICE EQUIPMENT DRAWINGS.

I. SPRINKLER HEADS SHALL CLEAR ALL LIGHTING FIXTURES, FOR FIXTURE LOCATIONS, SEE ELECTRICAL, DRAWINGS AND ARCHITECTURAL, REFLECTED CEILING PLANS.

J. ALL HOSE VALVES SHALL CONNECT TO FIRE SYSTEMS.

K. SPRINKLER HEADS ABOVE AND BELOW OVERHEAD DOORS. SPRINKLER HEADS ARE NOT REQUIRED FOR SELF CONTAINED ROLL-UP TYPE.

L. PROVIDE CAGES ON SPRINKLER HEADS SUBJECT TO DAMAGE BUT NOT LIMITED TO THE FOLLOWING AREAS: PAINT BOOTH, PAINT TRAY, BODY PARTS STORAGE, BODY REPAIRS, SHEET METAL SHOP, PARTS ELECTRICAL ROOMS, AND WITH OVERHEAD DOORS, SCAFFOLD WORK, MECHANICAL ROOM, BUILDING MAINTENANCE, GROUND SHOP & STORAGE, GENERAL STORAGE, VACUUM ROOM, BOILER ROOM, WASH WATER ROOM, GENERATOR ROOM. PROVIDE ADDITIONAL 20 CAGES TO OWNER AT COMPLETION OF JOB

NOTES:

1. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.

2. SPRINKLER HEADS FOR GENERAL BUILDING SPRINKLER SYSTEM ARE NOT SHOWN.

3. SPRINKLER HEADS UNDER DUCTWORK OR OTHER EQUIPMENT OMISSIONS OF 4' OR UNDER ARE NOT SHOWN.

4. CONTRACTOR TO ACCOUNT FOR ALL SPRINKLER HEADS AND PIPING FOR CONDITIONS CONSIDERED.

5. CONTRACTOR TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS WITH ALL TRADE SHOP DRAWINGS.

6. OMISSIONS OF DUCTWORK ARE NOT SHOWN. REFER TO MECHANICAL DRAWINGS. FOR ADDITIONAL INFORMATION ON DUCT ELEVATION, SEE MECHANICAL, STRUCTURAL, AND ELECTRICAL DRAWINGS.

7. MAINTAIN A MINIMUM HEIGHT OF 14'-0" CLEAR IN BUS TRAVEL AREAS AND A MINIMUM OF 12'-0" CLEAR IN ANY LIFT AREA.

8. MAINTAIN 7'-0" CLEARANCE IN EMPLOYEE PARKING AREAS.

9. DO NOT HANG ANY FIRE OR SPRINKLER PIPING INCLUDING CEILING BRACKETS FROM ANY DUCT SUPPORTS WITHOUT COORDINATION WITH MECHANICAL, TRADE AND FIRE MARSHAL.
1. APPROVED BY:
1-1/2" FHC

INCLUDING SEISMIC RETRAINTS FROM ANY DUCT
FP-101

SPRINKLER ZONE 1

SPRINKLER ZONE 1.

5. CONTRACTOR TO COORDINATE FINAL

2.7.

B

E

0431-0006

1/8" RCP GROUND FLOOR AREA A - FIRE

7. MAINTAIN A MINIMUM HEIGHT OF 14'-6" CLEAR IN
FACE OF COLUMN

SHEETS IS BASED ON LIMITED
919 MIDDLE STREET
WHICH WILL BE REQUIRED.

A

4" FIRE SERVICE TO
SPRINKLER ZONE 4A, REFER TO FP104 FOR
CONTINUATION

A

4" FIRE SERVICE TO
SPRINKLER ZONE 4A, REFER TO FP104 FOR
CONTINUATION

 notes:
1. REFER TO TABLE FOR AREA CLASSIFICATION
AND ZONE REQUIREMENTS.
2. SPRINKLER HEADS FOR GENERAL BUILDING
SPRINKLER SYSTEM ARE NOT SHOWN.
3. SPRINKLER HEADS UNDER DUCTWORK OR
OTHER EQUIPMENT OBSTRUCTIONS 48" OR WIDER
ARE NOT SHOWN.
4. CONTRACTOR TO ACCOUNT FOR ALL
REQUIRED SPRINKLER HEADS AND PIPING FOR
THOSE CONDITIONS.
5. CONTRACTOR TO COORDINATE FINAL
SPRINKLER HEAD LOCATIONS WITH ALL TRADE
SHOP DRAWINGS.
6. DUCTWORK IS NOT SHOWN, REFER TO
MECHANICAL DRAWINGS. FOR ADDITIONAL
INFORMATION (I.E. DUCT ELEVATION, SEE
MECHANICAL, ARCHITECTURAL, STRUCTURAL &
ELECTRICAL DRAWINGS.
7. MAINTAIN A MINIMUM HEIGHT OF 14'-6" CLEAR IN
BUS TRAVEL AREAS AND A MINIMUM OF 22'-6" CLEAR
IN ANY LIFT AREA.
8. MAINTAIN 5'-0" CLEARANCE IN EMPLOYEE
PARKING AREAS.
9. DO NOT HANG ANY FIRE OR SPRINKLER PIPING
INCLUDING SEISMIC RETRAINTS FROM ANY DUCT
SUDDENTS WITHOUT COORDINATION WITH
MECHANICAL TRADE AND FIRE MATERIAL.
NOTES:
1. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.
2. SPRINKLER HEADS FOR GENERAL BUILDING SPRINKLER SYSTEM ARE NOT SHOWN.
3. SPRINKLER HEADS UNDER DUCTWORK OR OTHER EQUIPMENT OBSTRUCTIONS 4' OR WIDER ARE NOT SHOWN.
4. CONTRACTOR TO ACCOUNT FOR ALL REQUIRED SPRINKLER HEADS AND PIPING FOR THESE CONDITIONS.
5. CONTRACTOR TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS WITH ALL TRADE SHOP DRAWINGS.
6. DUCTWORK IS NOT SHOWN, REFER TO ACTUAL QUANTITIES OF WORK.
7. MAINTAIN A MINIMUM HEIGHT OF 14'-0" CLEAR IN BUS TRAVEL AREAS AND A MINIMUM OF 22'-0" CLEAR IN ANY LIFT AREA.
8. MAINTAIN 7'-0" CLEARANCE IN EMPLOYEE PARKING AREAS.
9. DO NOT HANG ANY FIRE OR SPRINKLER PIPING INCLUDING SPRINKLER HEADS OR OTHER SUPPORTS WITHOUT COORDINATION WITH MECHANICAL TRADE AND FIRE MARSHAL.
NOTES:
1. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.
2. SPRINKLER HEADS FOR GENERAL BUILDING SPRINKLER SYSTEM ARE NOT SHOWN.
3. SPRINKLER HEADS UNDER DUCTWORK OR OTHER EQUIPMENT OBSTRUCTIONS 4'8" OR WIDER ARE NOT SHOWN.
4. CONTRACTOR TO ACCOUNT FOR ALL REQUIRED SPRINKLER HEADS AND PIPING FOR THESE CONDITIONS.
5. CONTRACTOR TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS WITH ALL TRADE SHOP DRAWINGS.
6. DUCTWORK IS NOT SHOWN. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL MACHINERY.
7. MECHANICAL, ARCHITECTURAL, STRUCTURAL & ELECTRICAL DRAWINGS.
8. TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.
9. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.
10. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.

PROTECTION AREA AND MAXIMUM SPACING OF SPRINKLERS

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<th>PROTECTION AREA</th>
<th>MAXIMUM SPRINKLER SPACING</th>
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<tr>
<td>1 EMPLOYEES PARKING</td>
<td>136 SF</td>
<td>18&quot;</td>
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<td>2 EMPLOYEES PARKING</td>
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FHC AT LANDING

ARCHITECT:
REPLACEMENT

WATERBURY BUS MAINTENANCE FACILITY REPLACEMENT
GROUND FLOOR REFLECTED CEILING PLAN-AREA D & E

DESIGNER/DRAFTER:
WET SPRINKLER RISER - ZONE 10.

CONNECTION. REFER TO CONTINUATION.
1. SPRINKLER ZONE 15
   6.4 KSF - 0.20 GRADE SF

   PROVIDE SPRINKLER PIPING
   AND SPRINKLER HEADS AT 2'-0" VERTICALLY ABOVE EACH FUEL AND LUBricant TRANSFER PUMP

   PROVIDE SPRINKLER DROP AND SPRINKLER HEADS AT 2'-0"
   VERTICALLY ABOVE EACH FUEL AND LUBricant TRANSFER PUMP

   SPRINKLER ZONE 15
   6.4 KSF - 0.20 GRADE SF

   EXPANSION JOINT
   3'-0"

   BRANCH PIPING ON TO SPRINKLER ZONE 3 ON
   1ST FLOOR. REFER TO FP-103 FOR CONTINUATION.

   1/8" = 1'-0"

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

   4" WET HOSE PIPING

   4" WET HOSE CABINET LOOP

   6" W.M. PIPE PIPING

   SERVICE LINES

   BRANCH PIPING

   6" W.M. PIPE PIPING

   WASHROOM

   SERVICE OFFICE

   MAIN ENTRANCE

   2.00 M.

   3. WVSTORAGE

   4. 1/2" HIC PIPING

   5. 1/2" HIC PIPING

   6. 4" WET HOSE CABINET LOOP

   7. 4" WET HOSE PIPING

   8. MECHANICAL, ARCHITECTURAL, STRUCTURAL &

   9. NOTES:

   1. REFER TO TABLE FOR AREA CLASSIFICATION
   AND WATER FLOWS.

   2. SPRINKLER HEADS FOR GENERAL BUILDING
   SPRINKLER SYSTEM ARE NOT SHOWN.

   3. SPRINKLER HEADS UNDER DUCTWORK OR
   OTHER EQUIPMENT OBSTRUCTIONS ARE NOT SHOWN.

   4. CONTRACTOR TO ACCOUNT FOR ALL
   REQUIRED SPRINKLER HEADS AND PIPING FOR
   THOSE CONDITIONS.

   5. CONTRACTOR TO COORDINATE FINAL
   SPRINKLER HEAD LOCATIONS WITH ALL TRADE
   SHOP DRAWINGS.

   6. DUCTWORK IS NOT SHOWN. REFER TO
   MECHANICAL DRAWINGS. FOR ADDITIONAL
   INFORMATION SEE DUCT ELEVATIONS SEE
   MECHANICAL, ARCHITECTURAL, STRUCTURAL &
   ELECTRICAL DRAWINGS.

   7. MAINTAIN A MINIMUM HEIGHT OF 14'-0"
   CLEAR IN BUS TRAVEL AREAS AND A MINIMUM OF 22'-0"
   CLEAR IN ANY LIFT AREA.

   8. MAINTAIN 7'-0" CLEARANCE IN EMPLOYEE
   PARKING AREAS.

   9. DO NOT HANG ANY FIRE OR SPRINKLER PIPING
   INCLUDING SEISMIC RETRACTORS FROM ANY DUCT
   SUPPORTS WITHOUT COORDINATION WITH
   MECHANICAL TRADE AND FIRE MARSHAL.

   WATERBURY BUS
   MAINTENANCE FACILITY
   REPLACEMENT

   FP-107

   0431-0006

   REV. DATE

   SHEET NO.

   FP-107

   0431-0006

   WATERBURY BUS
   MAINTENANCE FACILITY
   REPLACEMENT

   KEY PLAN

   C

   FIRST FLOOR REFLECTED CEILING

   PLAN - AREA C

   MECHANICAL DRAWINGS. FOR ADDITIONAL
   INFORMATION SEE DUCT ELEVATIONS SEE
APPROVED BY:

BRANCH PIPING FROM SPRINKLER ZONE 4. REFER TO Figures FOR CONTINUATION.

5. I.1. AIR COMP. ROOM M129

M103

CIRCULATION

M122

MECHANICAL TRADE AND FIRE MARSHAL

WENDEL

ROOM

M.9.

CHECKED BY:

FHC

WET SPRINKLER RISER - ZONE 4

SCALE:

NOTES:

1. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.

2. SPRINKLER HEADS FOR GENERAL BUILDING SPRINKLER SYSTEM ARE NOT SHOWN.

3. SPRINKLER HEADS UNDER DUCTWORK OR OTHER EQUIPMENT OBSTRUCTIONS 40'-0" OR WIDER ARE NOT SHOWN.

4. CONTRACTOR TO ACCOUNT FOR ALL REQUIRED SPRINKLER HEADS AND PIPING FOR THESE CONDITIONS.

5. CONTRACTOR TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS WITH ALL TRADE SHOP DRAWINGS.

6. DUCTWORK IS NOT SHOWN. REFER TO MECHANICAL DRAWINGS. FOR ADDITIONAL DETAILED INFORMATION REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL & ELECTRICAL DRAWINGS.

7. MAINTAIN A MINIMUM HEIGHT OF 14'-6" CLEAR IN BAY TRAVEL AREAS AND A MINIMUM OF 22'-0" CLEAR IN ANY LIFT AREA.

8. MAINTAIN 7'-6" CLEARANCE IN EMPLOYEE PARKING AREAS.

9. DO NOT HANG ANY FIRE OR SPRINKLER PIPING INCLUDING SEPARATE RESTRAINTS FROM ANY DUCT SUPPORTS WITHOUT COORDINATION WITH MECHANICAL, TRADE AND FIRE MARSHAL.

10. MAINTAIN A MAXIMUM HEIGHT OF 14'-6" CLEAR IN BAY TRAVEL AREAS AND A MINIMUM OF 22'-0" CLEAR IN ANY LIFT AREA.

11. MAINTAIN A MINIMUM HEIGHT OF 14'-6" CLEAR IN BAY TRAVEL AREAS AND A MINIMUM OF 22'-0" CLEAR IN ANY LIFT AREA.

12. MAINTAIN 7'-6" CLEARANCE IN EMPLOYEE PARKING AREAS.

13. DO NOT HANG ANY FIRE OR SPRINKLER PIPING INCLUDING SEPARATE RESTRAINTS FROM ANY DUCT SUPPORTS WITHOUT COORDINATION WITH MECHANICAL, TRADE AND FIRE MARSHAL.

PREFACE: COLLISION BAG OVER SPRINKLERS IN PAINT BOOTH AND FREP AREA. PROVIDE SPRINKLERS IN PAINT BOOTH, AIR FILTER, FLEET AND DUCTWORK. PROVIDE INDIRECT SPRINKLERS AT TOP OF DUCT RISER AND AT MAX. 24" SPACING.

FIRE PROTECTION PLAN ON THIS SHEET FOR ELEV. E AND CONTINUATION.

ROOM

M125

LARGE ITEM

ELECTRONICS AREA

ROOM

M114a

ReSTL DESIGNERS, CLOUGH HARBOUR ASSOC., AI ENGINEERS,

0431-0006

KEY PLAN

WATERBURY BUS MAINTENANCE FACILITY REPLACEMENT

FIRST FLOOR REFLECTED CEILING PLAN - AREA E

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
NOTES:

1. REFER TO TABLE FOR AREA CLASSIFICATION AND WATER FLOWS.
2. SPRINKLER HEADS FOR GENERAL BUILDING SPRINKLER SYSTEM ARE NOT SHOWN.
3. SPRINKLER HEADS UNDER DUCTWORK OR OTHER EQUIPMENT OBSTRUCTIONS 4FT OR WIDER ARE NOT SHOWN.
4. CONTRACTOR TO ACCOUNT FOR ALL REQUIRED SPRINKLER HEADS AND PIPING FOR THESE CONDITIONS.
5. CONTRACTOR TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS WITH ALL TRADE SHOP DRAWINGS.
6. ELECTRICAL IS NOT SHOWN. REFER TO MECHANICAL DRAWINGS. FOR ADDITIONAL INFORMATION, REFER TO ELEVATIONS, AND ELECTRICAL DRAWINGS.
7. MAINTAIN A MINIMUM HEIGHT OF 14'-6" CLEAR OVER TRAVEL AREAS AND A MINIMUM OF 12'-0" CLEAR IN ANY LIFT AREA.
8. MAINTAIN 7'-6" CLEARANCE IN EMPLOYEE PARKING AREAS.
9. DO NOT HANG ANY FIRE OR SPRINKLER PIPING INlected SPRINKLER HEADS FROM ANY DUCT SUPPORTS WITHOUT COORDINATION WITH MECHANICAL TRASH AND FIRE MARSHAL.

PROTECTION AREA AND MAXIMUM SPACING OF SPRINKLERS

<table>
<thead>
<tr>
<th>SPINKLER ZONE</th>
<th>PROTECTION AREA</th>
<th>MAXIMUM SPINKLER SPACING</th>
</tr>
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<tbody>
<tr>
<td>1. EMPLOYEE PARKING</td>
<td>100 SF</td>
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<tr>
<td>2. EMPLOYEE PARKING</td>
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<tr>
<td>3. EMPLOYEE PARKING</td>
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<td>9. MAINTENANCE</td>
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<td>10. AGREEMENT AREA</td>
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<tr>
<td>11. MECHANICAL STOR.</td>
<td>200 SF</td>
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</tr>
<tr>
<td>12. MECHANICAL STOR.</td>
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</table>

LOCATE SPRINKLERS IN THE CEILING CONDUITS IN THIS AREA

PROVIDE SPRINKLERS ON EITHER SIDE OF ATRIUM GLASS SPRINKLERS TO BE 6" FROM GLASS AT 6'-0" C-C.

PROVIDE SPRINKLERS ON EITHER SIDE OF ATRIUM GLASS SPRINKLERS TO BE 6" FROM GLASS AT 6'-0" C-C.

PROVIDE SPRINKLERS ON EITHER SIDE OF ATRIUM GLASS SPRINKLERS TO BE 6" FROM GLASS AT 6'-0" C-C.
<table>
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<tr>
<th>Number</th>
<th>Supplier</th>
<th>Description</th>
<th>Quantity</th>
<th>Size</th>
<th>RPM</th>
<th>Maintenance</th>
<th>Notes</th>
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All shapes, numbers, sizes, weights and capacities are estimated. This schedule is based on the supplier's specifications. All weights are approximate. Refer to the supplier's specifications for exact details.