NOTES FOR DESIGNER (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. THE STANDARD DETAILS ILLUSTRATE ONLY A FEW OF THE POSSIBLE EMERGENCY EQUIPMENT COMBINATIONS THAT MAY BE REQUIRED FOR A SPECIFIC PROJECT.

2. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM MECHANICAL POC.

3. EMERGENCY EQUIPMENT AND INSTALLATION SHALL COMPLY WITH ANSI/ISEA Z358.1-2014, AMERICAN NATIONAL STANDARD FOR EMERGENCY EYEWASH AND SHOWER EQUIPMENT.

4. PROVIDE TEPID WATER TO EMERGENCY EQUIPMENT EXCEPT FOR EXISTING SYSTEMS.

5. WHERE THE POSSIBILITY OF FREEZING CONDITIONS EXIST, PROTECT EQUIPMENT FROM FREEZING OR INSTALL FREEZE PROTECTED EQUIPMENT.

6. CONSULT WITH HIS AND THE USER TO DETERMINE EMERGENCY EQUIPMENT LOCATIONS, QUANTITIES, TYPE AND COMBINATIONS (SHOWERS/EYEWASH, SHOWER, ETC.)

7. LOCATE EMERGENCY EQUIPMENT IN ACCESSIBLE LOCATIONS THAT REQUIRED NO MORE THAN 15 SECONDS TO REACH AND WITHIN 30 FEET OF THE HAZARD. WHEN THE HAZARD IS HIGHLY CORROSIVE, SUCH AS A STRONG ACID OR CAUSTIC, THE EQUIPMENT SHOULD BE WITHIN 15 FEET OF THE HAZARD.

8. THE ROUTE TO GET TO EMERGENCY UNITS MUST HAVE NO OBSTACLES IN ELEVATION (I.E. STEPS OR UNEVEN GROUND); PASSAGE THROUGH NO MORE THAN ONE DOORWAY, AND NO PATHWAY OBJECTS.

9. SIZE PIPING NO SMALLER THAN THE NEXT SIZE OF THE UNIT.

10. PROVIDE A MINIMUM OF 30 PSIG PRESSURE TO THE EQUIPMENT. INSTALL A PRV IF PRESSURE AT EQUIPMENT EXCEEDS 60 PSIG.

11. THE FOLLOWING IS THE MINIMUM FLOW AND TIME REQUIREMENTS FOR EMERGENCY EQUIPMENT UNITS BASED ON 30 PSIG INLET PRESSURE.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Minimum Flow (gpm)</th>
<th>Minimum Time (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shower</td>
<td>25</td>
<td>15</td>
</tr>
<tr>
<td>Drench Hose</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>Eye/Face Wash</td>
<td>0.4</td>
<td>15</td>
</tr>
<tr>
<td>Eyewash</td>
<td>3</td>
<td>15</td>
</tr>
</tbody>
</table>

12. FLOOR DRAINS ARE NOT ALLOWED WHEN SAFETY SHOWERS ARE INSTALLED IN NEW CONSTRUCTION. IN RETROFIT CONSTRUCTION, A SHOWER MAY BE LOCATED NEAR AN EXISTING DRAIN PROVIDING THE DRAIN IS TIED INTO SANITARY SEWER WASTE SYSTEM AND APPROVAL IS OBTAINED FROM ES/UI SANITARY WASTE SME.

13. WASTE LINES FROM EYEWASH OR EYE/FACE WASH UNITS SHALL DISCHARGE INTO A FLOOR.

14. LOCATE CENTERLINE OF EMERGENCY EQUIPMENT A MINIMUM OF 7 FEET FROM ELECTRICAL OR MECHANICAL EQUIPMENT (I.E. TRANSFORMERS, COMPRESSORS AND SIMILAR ITEMS). EQUIP ELECTRICAL OUTLETS WITHIN 6 FEET WITH A GFCI.

15. AN ALARM SYSTEM MAY HAVE TO BE INSTALLED WHEN THE EMERGENCY UNITS ARE INSTALLED IN ISOLATED AREAS OR IN HAZARDOUS LOCATIONS WHERE THERE ARE FEW PEOPLE. HIS AND THE USER WILL MAKE THIS DETERMINATION.

16. ALLOW A MINIMUM UNOBSTRUCTED AREA OF 34" IN DIAMETER WHEN A SHOWER PRIVACY SCREEN (2, 3, OR 4 SIDED) IS REQUESTED BY THE USER.

17. CONSIDER CORROSION RESISTANT MATERIAL IF EMERGENCY EQUIPMENT IS INSTALLED IN WASH ENVIRONMENTS.

18. PORTABLE EYEWASH UNITS MEETED ANSI/ISEA Z358.1-2014 MAY BE USED ONLY FOR TEMPORARY OR FIELD OPERATIONS OR WHERE POTABLE WATER IS NOT AVAILABLE.