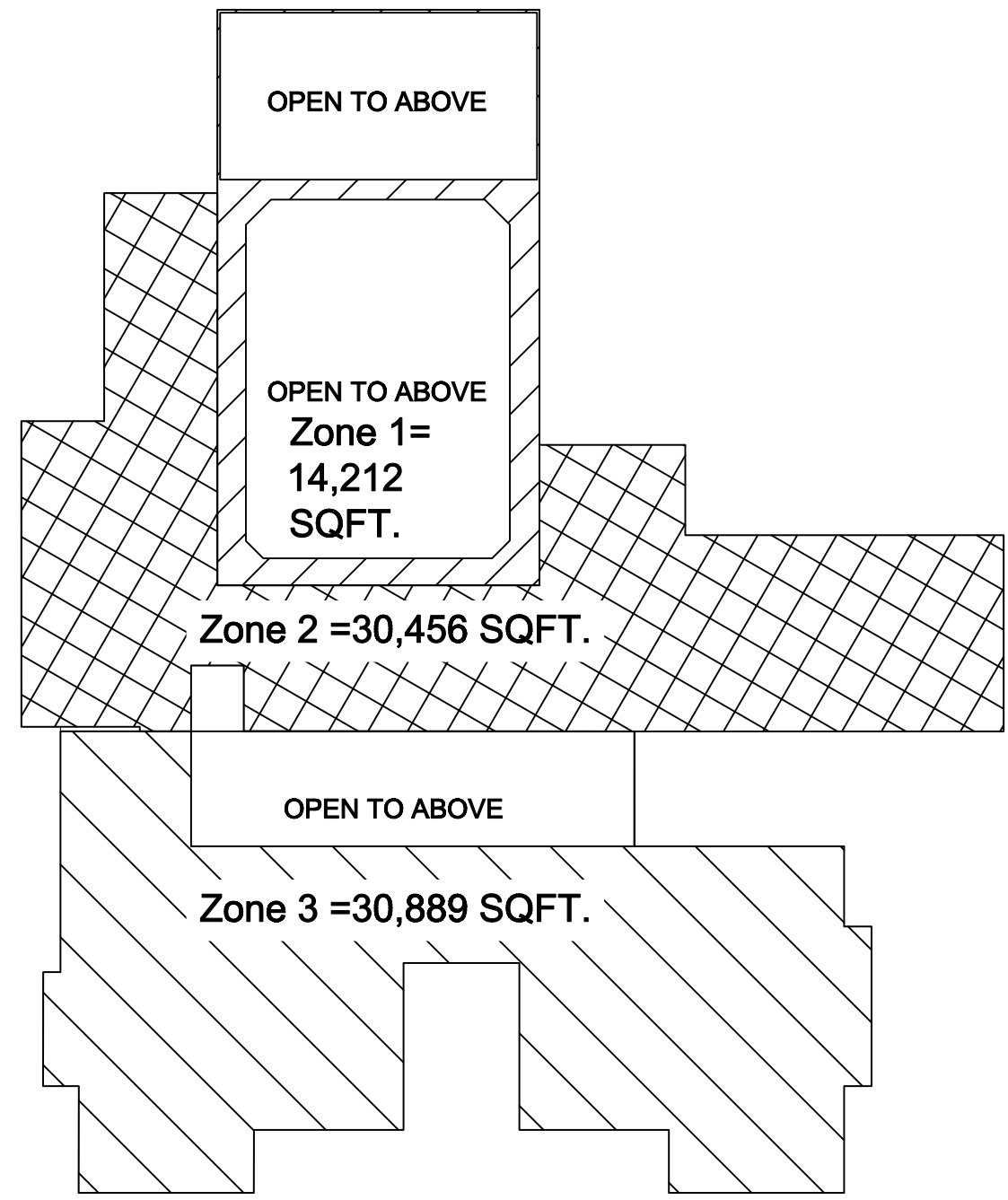
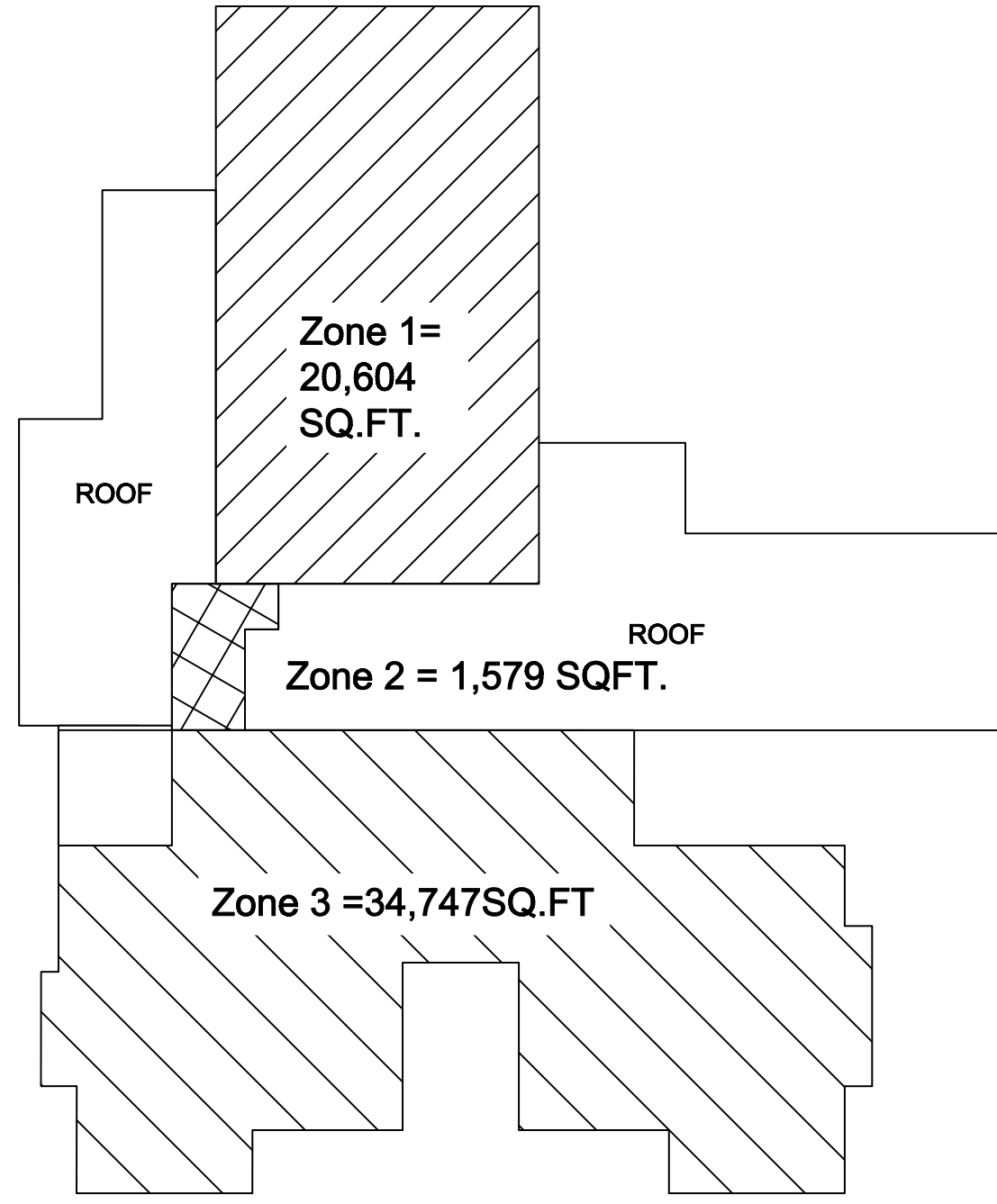
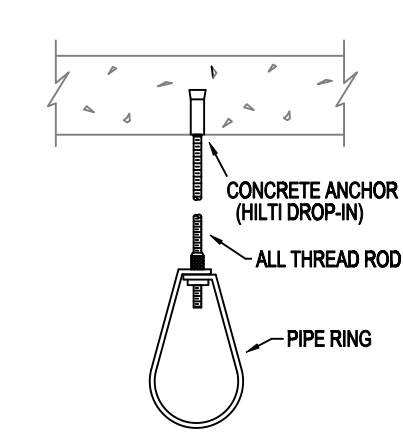
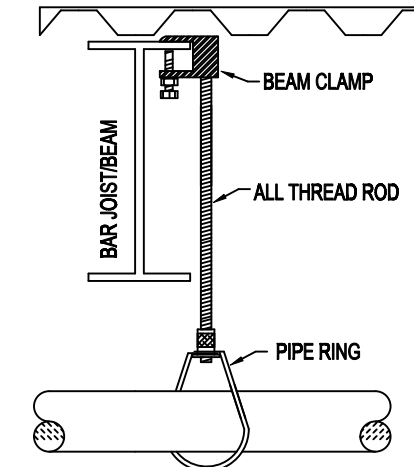
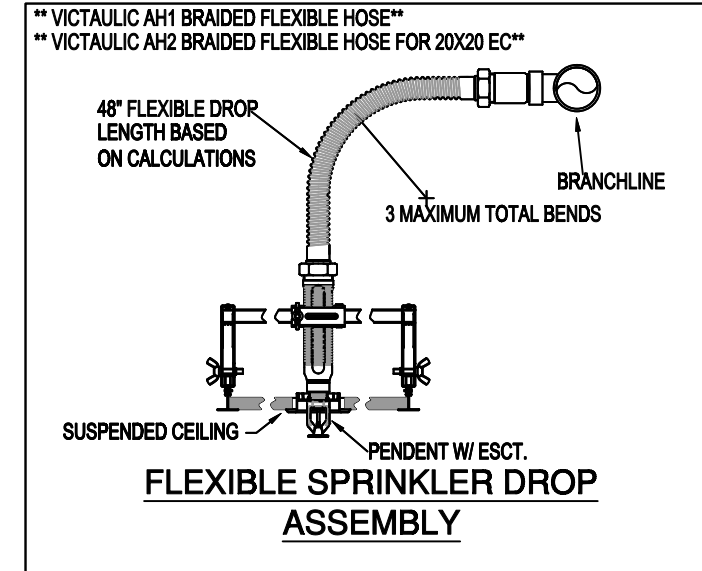
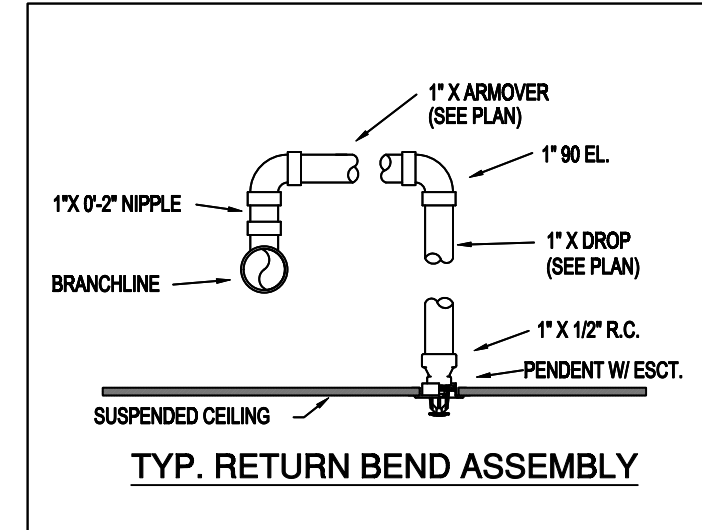
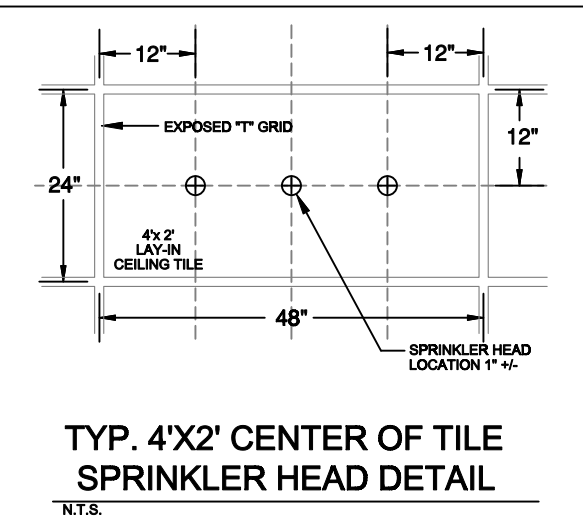
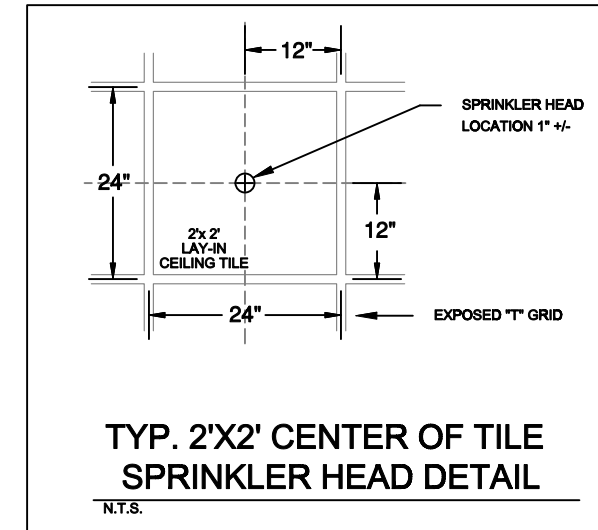




ZONE MAP 1ST FLOOR



ZONE MAP 2ND FLOOR



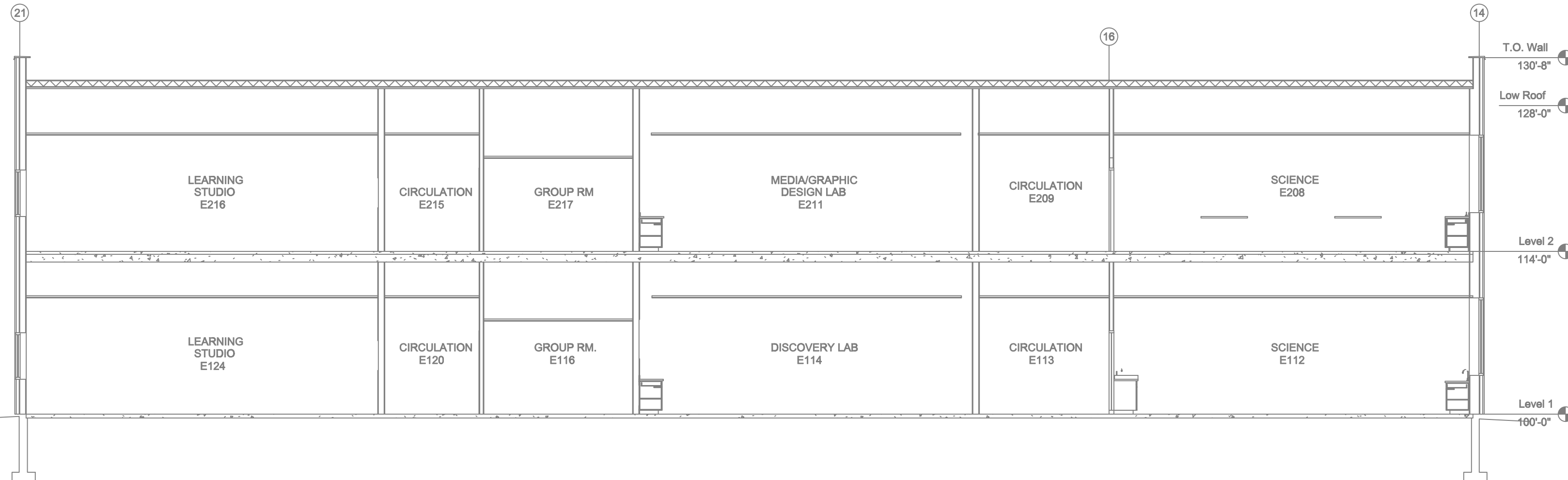
HANGER DETAILS

| NFPA 13 STEEL PIPE HANGER SPACING |                  |
|-----------------------------------|------------------|
| (EXCEPT LIGHT WALL THRD PIPING)   |                  |
| NOMINAL SIZE INCHES               | MAX SPACING FEET |
| 1"                                | 12'-0"           |
| 1-1/4"                            | 12'-0"           |
| 1-1/2"                            | 15'-0"           |
| 2"                                | 15'-0"           |
| 2-1/2"                            | 15'-0"           |
| 3"                                | 15'-0"           |
| 4" & LARGER                       | 15'-0"           |

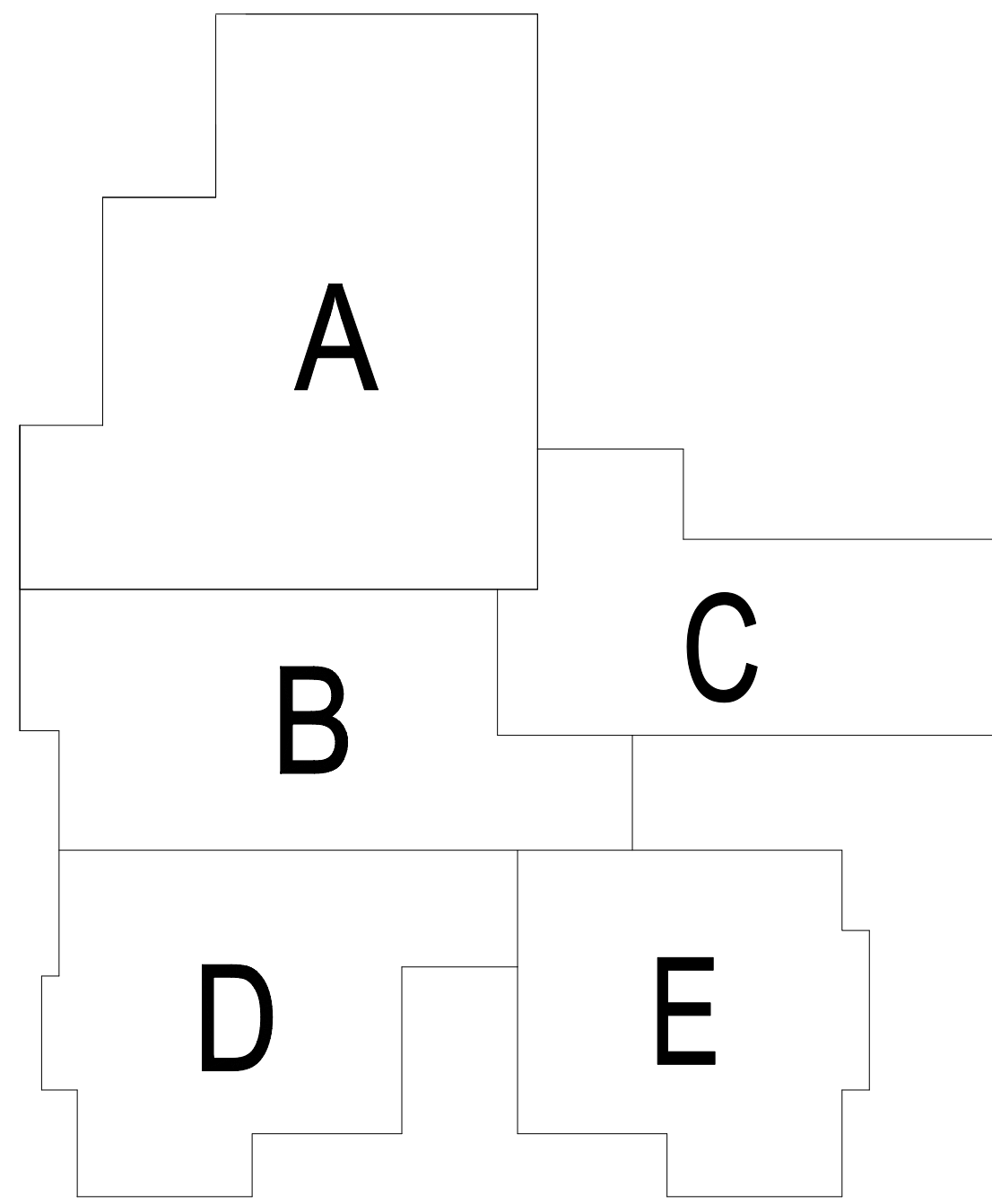
- GENERAL NOTES
- MINNESOTA STATE BUILDING CODE (2020)
  - OCCUPANCY: ASSEMBLY TYPE A-2 & A-4, EDUCATIONAL
  - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)  
1ST FLOOR = 91,164 S.F.  
2ND FLOOR = 33,982 S.F.  
TOTAL = 125,026 S.F.
  - INSTALLATION STANDARDS:  
SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13 (2016)
  - SPRINKLER PIPE TYPES:  
-WET:  
2.1. 1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS  
2.2. 1" THROUGH 2" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH GROOVED FITTINGS  
2.3. 2" & LARGER MAIN LINES TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
  - DESIGN CRITERIA  
3.1. CLASSROOMS, OFFICES, CORRIDORS, GYM, AND OTHER SIMILAR AREAS DESIGNED TO LIGHT HAZARD, DESIGNED TO DELIVER 0.10 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.  
3.1. KITCHEN, MECHANICAL, ELECTRICAL STORAGE ROOMS, AND OTHER SIMILAR AREAS DESIGNED TO ORDINARY HAZARD GROUP 1, DESIGNED TO DELIVER 0.15 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.  
3.2. SCIENCE ROOMS, CONSTRUCTION, TRANSPORTATION, AND METAL FABRICATION DESIGNED TO ORDINARY HAZARD GROUP 2, DESIGNED TO DELIVER 0.20 GPM/S.F. TO MOST DEMANDING 1500 S.F.  
3.3. REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3
  - NOTES:  
4.1. ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS  
4.2. HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016) - SEE PLAN FOR HANGING REQUIREMENTS
  - SYMBOLS USED ON DRAWINGS:  
-E-9-8- PIPE ELEVATION A.F.F.  
-E-12- PIPE ELEVATION BELOW B.O.D.  
OH- ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)  
H- HYDRAULIC CALCULATION JUNCTION POINT  
9'-6" CEILING HEIGHT
  - SCOPE OF WORK:  
6.1. TO INSTALL NEW WET SPRINKLER SYSTEM IN NEW NASHWAUK KEEWATIN SCHOOL & WELLNESS CENTER.  
6.2. ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2016).  
6.3. THE SYSTEM WILL CONSIST OF THREE WET SPRINKLER ZONES.  
6.4. THE FIRE DEPARTMENT CONNECTION A WILL BE LOCATED AT THE WEST SIDE OF THE BUILDING OUTSIDE THE RISER ROOM

SPRINKLER HEAD LEGEND

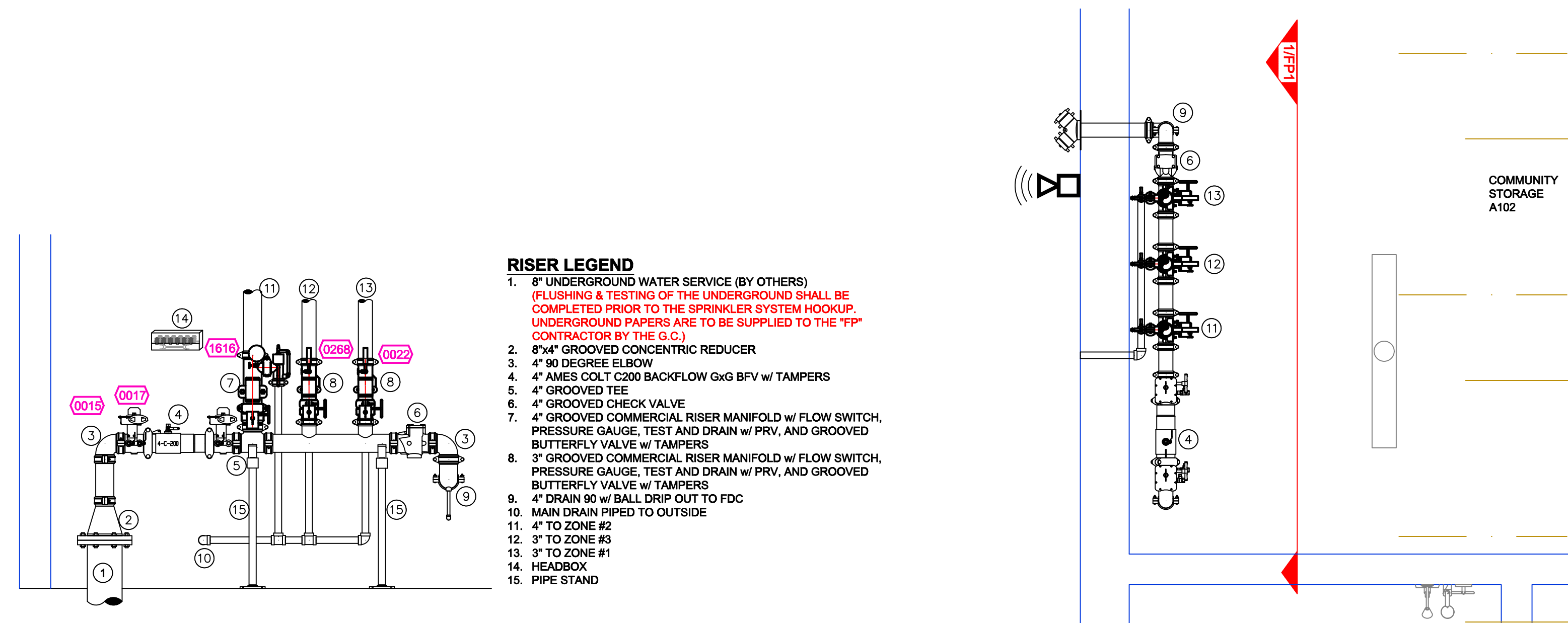
| SYM              | CHT      | POSITION | FINISH | TEMP  | K    | NPT    | SN       | MFG.   | MODEL#        | ESCU/CHRON | MAX SPACING |
|------------------|----------|----------|--------|-------|------|--------|----------|--------|---------------|------------|-------------|
| 24               | PENDENT  | BRASS    | 200    | 5.80  | 1/2" | TY323  | TYCO     | TY-FRB | N/A           | 15' x 15'  | 15' x 15'   |
| 221              | UPRIGHT  | BRASS    | 200    | 5.80  | 1/2" | TY913  | TYCO     | TY-FRB | N/A           | 15' x 15'  | 15' x 15'   |
| 182              | PENDENT  | WHITE    | 212    | 11.20 | 3/4" | TY522  | TYCO     | ELOC   | CONCEALED     | 18' x 18'  | 18' x 18'   |
| 258              | PENDENT  | WHITE    | 200    | 5.80  | 1/2" | TY351  | TYCO     | RFI    | CONCEALED     | 15' x 15'  | 15' x 15'   |
| 96               | UPRIGHT  | BRASS    | 200    | 5.80  | 1/2" | TY913  | TYCO     | TY-FRB | N/A           | 15' x 15'  | 15' x 15'   |
| 3                | PENDENT  | CHROME   | 200    | 5.80  | 1"   | R574   | RELIABLE | F30R   | HS            | 130 SQFT.  | 130 SQFT.   |
| 4                | SIDEWALL | BRASS    | 200    | 5.80  | 1/2" | TY331  | TYCO     | TY-FRB | N/A           | 14' x 14'  | 14' x 14'   |
| 2                | PENDENT  | WHITE    | 286    | 5.80  | 1/2" | TY323  | TYCO     | TY-FRB | SEMI-RECESSED | 130 SQFT.  | 130 SQFT.   |
| 15               | PENDENT  | WHITE    | 212    | 8.00  | 3/4" | RA3412 | RELIABLE | G5     | CONCEALED     | 130 SQFT.  | 130 SQFT.   |
| 36               | PENDENT  | WHITE    | 165    | 11.20 | 3/4" | R7146  | RELIABLE | G4-XLO | CONCEALED     | 20' x 20'  | 20' x 20'   |
| 81               | UPRIGHT  | BRASS    | 200    | 8.00  | 3/4" | TY4151 | TYCO     | TY-FB  | N/A           | 130 SQFT.  | 130 SQFT.   |
| 82 TOTAL HEADS   |          |          |        |       |      |        |          |        |               |            |             |
| HEAD CASE SYMBOL |          |          |        |       |      |        |          |        |               |            |             |



A BUILDING SECTION  
SCALE= 1/8" : 1'-0"

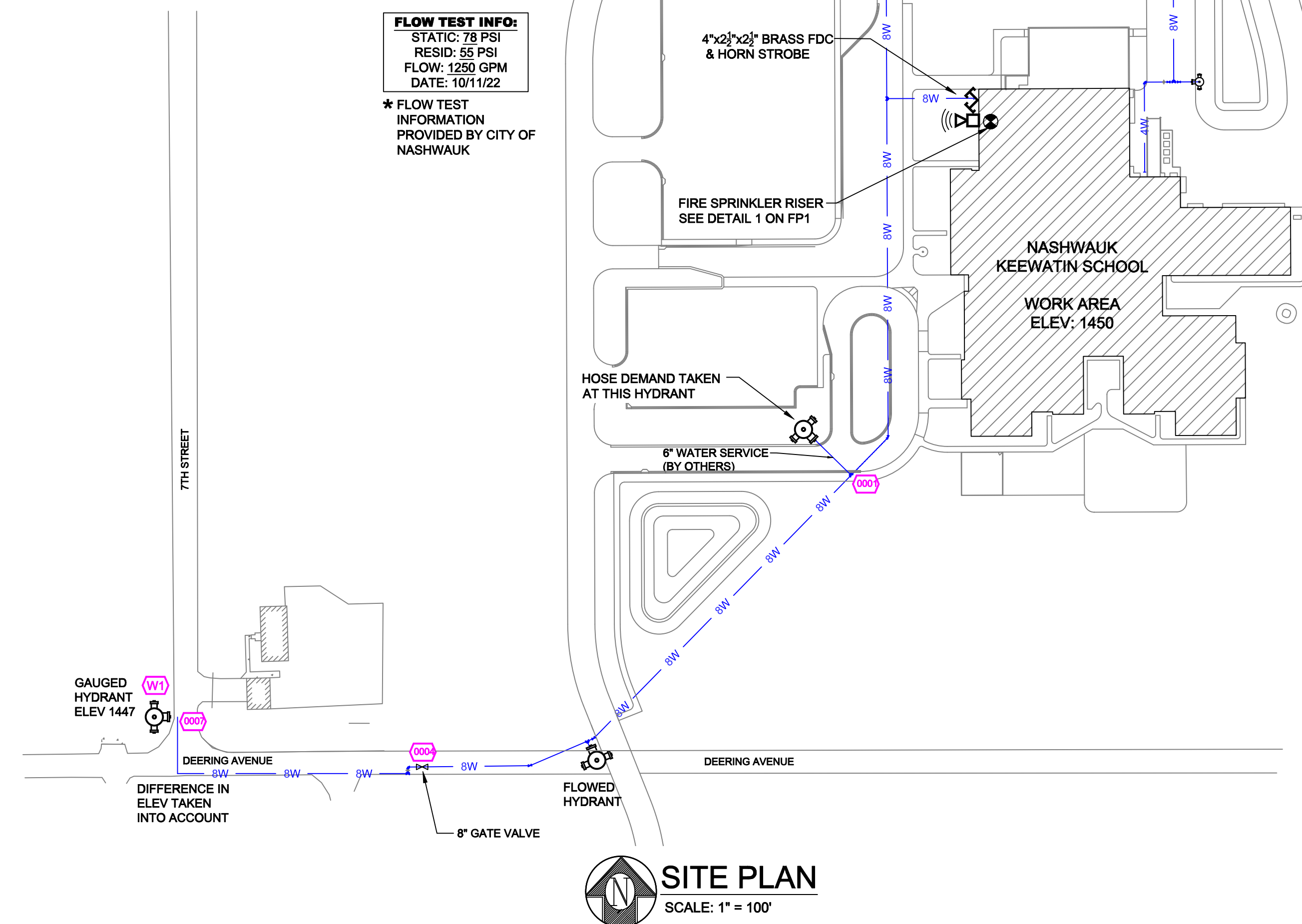


KEY PLAN



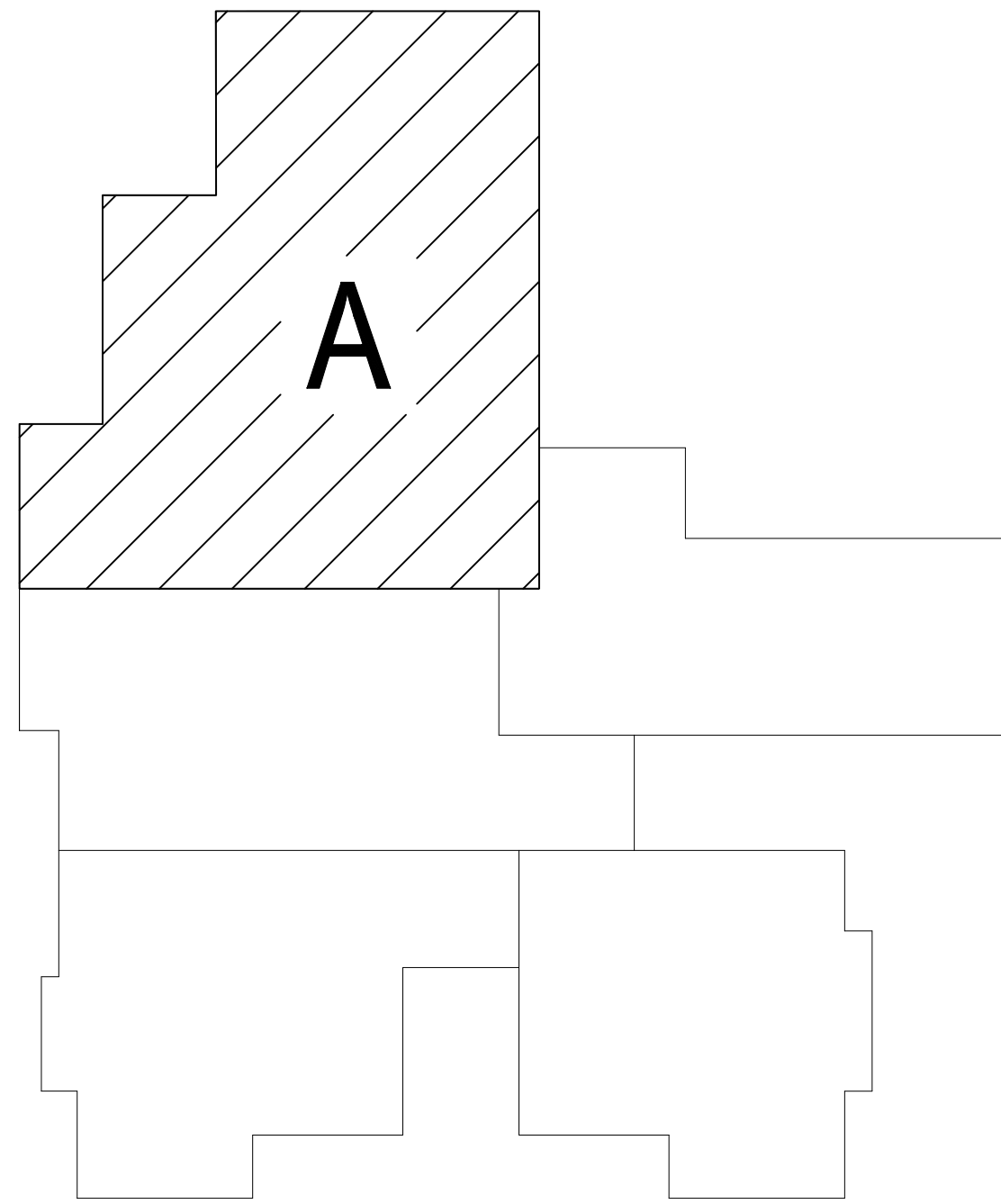
1 RISER DETAIL  
SCALE= 1/2" : 1'-0"

2 RISER DETAIL (PLAN VIEW)  
SCALE= 1/2" : 1'-0"



SITE PLAN  
SCALE: 1" = 100'

| GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | REVISIONS               |  | APPROVAL STAMPS |  | DRAWING TITLE                                 |  | CONTRACT NO.            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|-----------------|--|-----------------------------------------------|--|-------------------------|--|
| 1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL.<br>2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED.<br>3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE.<br>4. ALL SCH-10 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS.<br>5. ALL WELDING PER NFPA-554-2.2.2.<br>6. NO INSTALLATION OR FABRICATION TO BEGON WITHOUT APPROVED SHOP DRAWINGS.<br>7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR.<br>8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER.<br>9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED.<br>10. PROVIDE ON SPRIKE HEAD CABINET W/ HEADS & 1 HEAD WRENCH.<br>11. HANGERS ARE TO BE U.L. LISTED AND M. APPROVED.<br>12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER.<br>13. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING. |  | 1. DOLI REVIEW COMMENTS |  | 03/06/2024      |  | FIRE PROTECTION PLAN                          |  | C23-38                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                         |  |                 |  | NASHWAUK KEEWATIN SCHOOLS AND WELLNESS CENTER |  | 01/25/24                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                         |  |                 |  | 575 PLATT AVENUE EAST                         |  | 1/8" = 1'-0"            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                         |  |                 |  | NASHWAUK, MN 55769                            |  | HL                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                         |  |                 |  |                                               |  | STATE FIRE MARSHAL DIV. |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                         |  |                 |  |                                               |  | FP 1 of 8               |  |



KEY PLAN

SPRINKLER HEAD LEGEND

| SYM | QTY         | POSITION | FINISH | TEMP  | K    | RPT    | SN       | MFG    | MODEL#        | ESCUTCHEON | MAX SPACING |
|-----|-------------|----------|--------|-------|------|--------|----------|--------|---------------|------------|-------------|
| 24  | PENDENT     | BRASS    | 200    | 5.80  | 1/2" | TY323  | TYCO     | TY-FRB | N/A           | N/A        | 15' x 15'   |
| 221 | UPRIGHT     | BRASS    | 200    | 5.80  | 1/2" | TY313  | TYCO     | TY-FRB | N/A           | N/A        | 15' x 15'   |
| 182 | PENDENT     | WHITE    | 212    | 11.20 | 3/4" | TY552  | TYCO     | ELOC   | CONCEALED     | 18' x 18'  |             |
| 258 | PENDENT     | WHITE    | 200    | 5.80  | 1/2" | TY351  | TYCO     | RFII   | CONCEALED     | 15' x 15'  |             |
| 96  | UPRIGHT     | BRASS    | 200    | 5.80  | 1/2" | TY313  | TYCO     | TY-FRB | N/A           | N/A        | 15' x 15'   |
| 3   | PENDENT     | CHROME   | 200    | 5.80  | 1"   | R5714  | RELIABLE | FSOR   | HB            | 130 SQFT.  |             |
| 4   | SIDEWALL    | BRASS    | 200    | 5.80  | 1/2" | TY331  | TYCO     | TY-FRB | N/A           | N/A        | 14' x 14'   |
| 2   | PENDENT     | WHITE    | 286    | 5.80  | 1/2" | TY323  | TYCO     | TY-FRB | SEMI-RECESSED | 130 SQFT.  |             |
| 15  | PENDENT     | WHITE    | 212    | 8.00  | 3/4" | RA3412 | RELIABLE | GS     | CONCEALED     | 130 SQFT.  |             |
| 36  | PENDENT     | WHITE    | 165    | 11.20 | 3/4" | R7146  | RELIABLE | GA-XLO | CONCEALED     | 20' x 20'  |             |
| 81  | UPRIGHT     | BRASS    | 200    | 8.00  | 3/4" | TY4151 | TYCO     | TY-B   | N/A           | 130 SQFT.  |             |
| 82  | TOTAL HEADS |          |        |       |      |        |          |        |               |            |             |
| 83  | TOTAL HEADS |          |        |       |      |        |          |        |               |            |             |

HEAD CAGE SYMBOL

PER STATE IFC AMENDMENTS  
903.3.1.6.5 SPRINKLER COVERAGE IS NOT REQUIRED IN VESTIBULES THAT MEET THE FOLLOWING

- 255 S.F. OR LESS
- IS OF NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE CONSTRUCTION
- HAS GLAZING ALLOWING VISION INTO VESTIBULE
- ONLY PURPOSE IS INGRESS AND EGRESS
- CONTAIN NO FUELED EQUIPMENT, FLAMMABLE OR COMBUSTIBLE LIQUIDS, OR FURNITURE. INCIDENTAL COMBUSTIBLE STORAGE IN THE VESTIBULE IS LIMITED TO FIVE CUBIC FEET OF MATERIAL.

PER STATE IFC AMENDMENTS  
903.3.1.6.5 SPRINKLER COVERAGE IS NOT REQUIRED IN VESTIBULES THAT MEET THE FOLLOWING

- 255 S.F. OR LESS
- IS OF NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE CONSTRUCTION
- HAS GLAZING ALLOWING VISION INTO VESTIBULE
- ONLY PURPOSE IS INGRESS AND EGRESS
- CONTAIN NO FUELED EQUIPMENT, FLAMMABLE OR COMBUSTIBLE LIQUIDS, OR FURNITURE. INCIDENTAL COMBUSTIBLE STORAGE IN THE VESTIBULE IS LIMITED TO FIVE CUBIC FEET OF MATERIAL.

4"x2"-2" BRASS FIRE DEPARTMENT CONNECTION & HORN STROBE

FIRE SPRINKLER RISER SEE DETAIL 1 ON FP1

NONCOMBUSTIBLE EXTERIOR PROJECTION, NO PROTECTION REQ'D PER NFPA 13 8.15.7.2.

SHEET FP2  
SHEET FP3



LEVEL 1 FIRE SPRINKLER PLAN AREA A

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

GENERAL NOTES

1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL.
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED.
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE.
4. ALL SCH-80 LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS.
5. ALL WELDING PER NFPA-106(4.2).
6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS.
7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR.
8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER.
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED.
10. PROVIDE ON SPARE HEAD CABINET WITH HEADS & 1 HEAD WRENCH.
11. HANDERS ARE TO BE U.L. LISTED AND F.M. APPROVED.
12. ELECTRICAL WIRING, ALARM DETECTION AND SUPERVISORY BY OWNER.
13. OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

NO

1 DOLI REVIEW COMMENTS

REVISIONS

DATE

03/08/2024

APPROVAL STAMPS

Drawing

FIRE PROTECTION PLAN

**NASHWAUK KEEWATIN SCHOOLS AND WELLNESS CENTER**  
575 PLATT AVENUE EAST  
NASHWAUK, MN 55769

Contract No.

**C23-38**

Drawing Date: 01/25/24

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

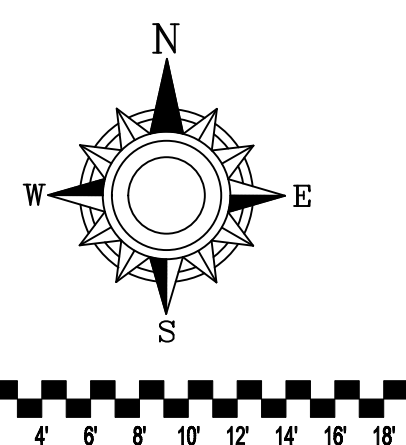
Drawn By: HL

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 2 of 8

| SYM | CNT | POSITION | FINISH | TEMP | K     | NPT  | SYM    | MFG.     | MODEL# | ESLUTCHRON    | MAX SPACING |
|-----|-----|----------|--------|------|-------|------|--------|----------|--------|---------------|-------------|
| ⊙   | 24  | PENDENT  | BRASS  | 200  | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | NA            | 15' x 10'   |
| ○   | 121 | UPRIGHT  | BRASS  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | NA            | 15' x 15'   |
| ⊙   | 282 | PENDENT  | WHITE  | 212  | 11.20 | 3/4" | TY5522 | TYCO     | ESLON  | CONCEALED     | 18' x 18'   |
| ○   | 158 | PENDENT  | WHITE  | 200  | 5.60  | 1/2" | TY3531 | TYCO     | REI    | CONCEALED     | 15' x 12'   |
| ⊙   | 98  | UPRIGHT  | BRASS  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | NA            | 15' x 15'   |
| ⊙   | 3   | PENDENT  | CHROME | 200  | 5.60  | 1"   | RS714  | RELIABLE | FS30R  | HB            | 130 SGFT.   |
| ◀   | 4   | SIDEWALL | BRASS  | 200  | 5.60  | 1/2" | TY3331 | TYCO     | TY-FRB | NA            | 14' x 14'   |
| ⊙   | 2   | PENDENT  | WHITE  | 286  | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | SEMI-RECESSED | 130 SGFT.   |
| ⊙   | 15  | PENDENT  | WHITE  | 212  | 6.00  | 3/4" | RA5412 | RELIABLE | OS     | CONCEALED     | 130 SGFT.   |
| ⊙   | 68  | PENDENT  | WHITE  | 165  | 6.00  | 3/4" | TY4415 | TYCO     | OS     | CONCEALED     | 20' x 20'   |
| ⊙   | 81  | UPRIGHT  | BRASS  | 200  | 6.00  | 3/4" | TY4415 | TYCO     | TY-B   | NA            | 130 SGFT.   |

822 TOTAL HEADS  
HEAD CASE SYMBOL



1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
4. ALL SCH-40 LIGHTWALL PIPING SHALL HAVE OUTLETS & APPROVED SHORT RADII FITTINGS
5. ALL WELDING PER NFPA-33(2-8.2)
6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT A GROUPOUT SHOP DRAWINGS
7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
10. PROVIDE ON SPARE HEAD CABINET W/ HEADS & 1" HEAD WRENCH
11. HANGERS ARE TO BE U.L. LISTED & APPROVED
12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
13. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

[illegible]

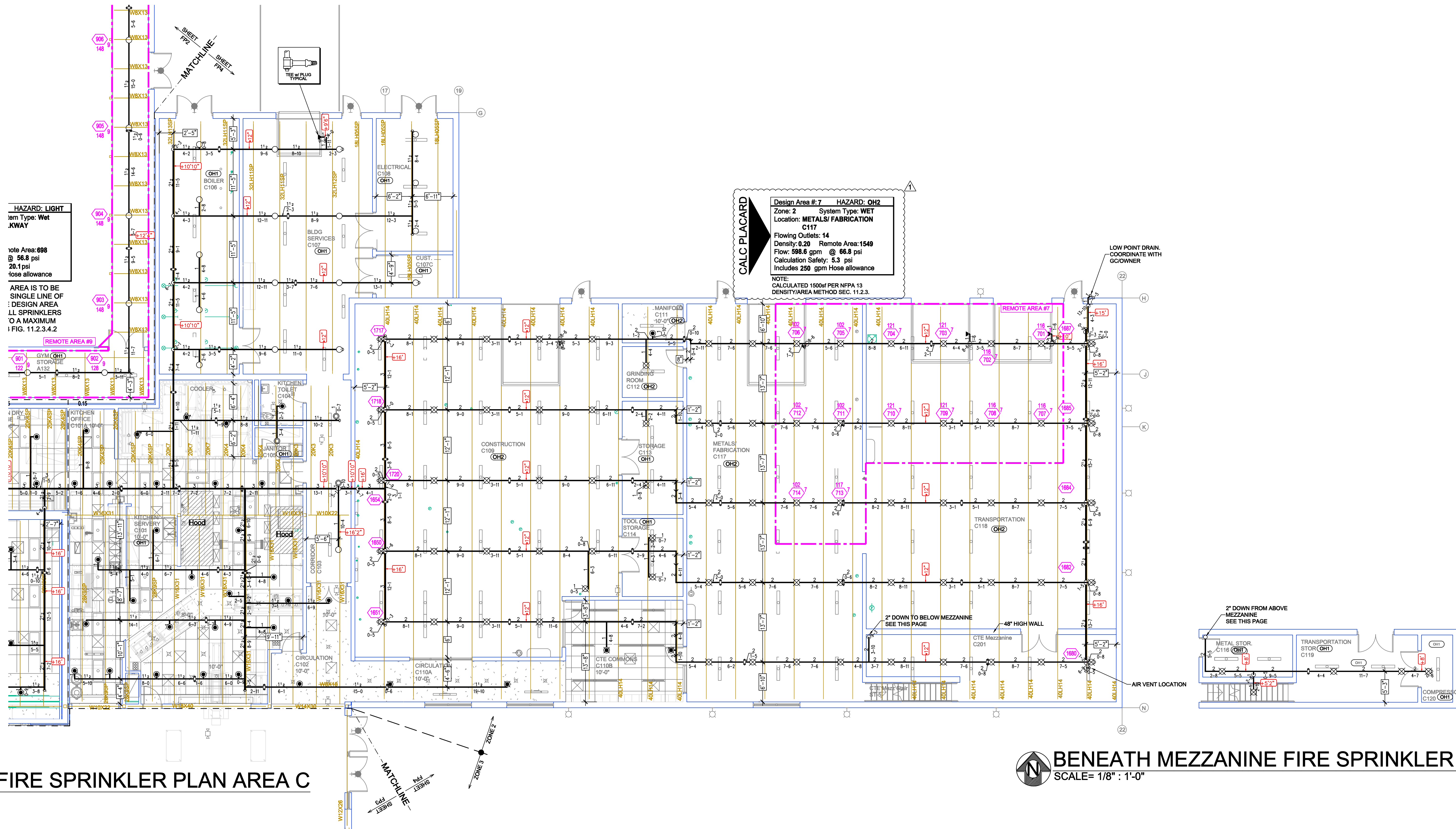
**NASHWAUK KEEWATIN  
SCHOOLS AND  
WELLNESS CENTER**  
575 PLATT AVENUE EAST  
NASHWAUK, MN 55769

|                  |                            |
|------------------|----------------------------|
| Contract No.     |                            |
| <b>C23-38</b>    |                            |
| Drawing Date:    | 01/25/24                   |
| Scale:           | 1/8" = 1'-0"               |
| Drawn By:        | HL                         |
| Approval By:     | STATE FIRE<br>MARSHAL DIV. |
| SHEET NO.        |                            |
| <b>FP 3 of 8</b> |                            |

# SPRINKLER HEAD LEGEND

| SYM              | QTY     | POSITION | FINISH | TEMP  | K    | NPT    | SIN      | MFQ    | MODEL#       | ESCUTCHION | MAX SPACING |
|------------------|---------|----------|--------|-------|------|--------|----------|--------|--------------|------------|-------------|
| 24               | PENDENT | BRASS    | 200    | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | N/A          | 15" x 15"  |             |
| 221              | UPRIGHT | BRASS    | 200    | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | N/A          | 15" x 15"  |             |
| 182              | PENDENT | WHITE    | 212    | 11.20 | 3/4" | TY522  | TYCO     | ELOC   | CONCEALED    | 18" x 18"  |             |
| 258              | PENDENT | WHITE    | 200    | 5.60  | 1/2" | TY331  | TYCO     | RPII   | CONCEALED    | 15" x 15"  |             |
| 86               | UPRIGHT | BRASS    | 200    | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | N/A          | 15" x 15"  |             |
| 3                | PENDENT | CHROME   | 200    | 5.60  | 1"   | RS714  | RELIABLE | F3QR   | HB           | 130 SQFT.  |             |
| 4                | SEAWALL | BRASS    | 200    | 5.60  | 1/2" | TY331  | TYCO     | TY-FRB | N/A          | 14" x 14"  |             |
| 2                | PENDENT | WHITE    | 286    | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | SEM-RECESSED | 130 SQFT.  |             |
| 15               | PENDENT | WHITE    | 212    | 8.00  | 3/4" | RAS12  | RELIABLE | GS     | CONCEALED    | 130 SQFT.  |             |
| 36               | PENDENT | WHITE    | 165    | 11.20 | 3/4" | R7146  | RELIABLE | GA-XLO | CONCEALED    | 20" x 20"  |             |
| 81               | UPRIGHT | BRASS    | 200    | 5.60  | 3/4" | TY4151 | TYCO     | TY-FRB | N/A          | 130 SQFT.  |             |
| 822 TOTAL HEADS  |         |          |        |       |      |        |          |        |              |            |             |
| HEAD CAGE SYMBOL |         |          |        |       |      |        |          |        |              |            |             |

## KEY PLAN

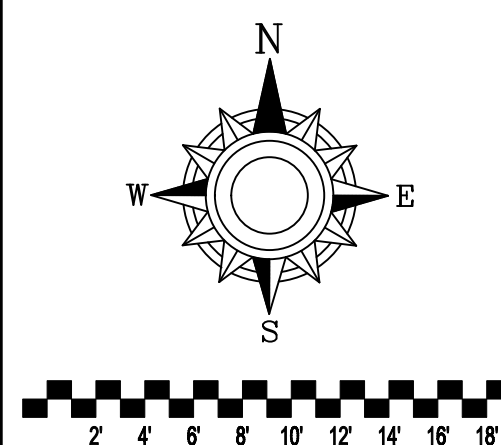


## LEVEL 1 FIRE SPRINKLER PLAN AREA C

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

## BENEATH MEZZANINE FIRE SPRINKLER PLAN

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



### GENERAL NOTES

1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL.
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED.
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE.
4. ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS.
5. ALL WELDING PER NFPA-554-2.3.
6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS.
7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR.
8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER.
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED.
10. PROVIDE ON SPARE HEAD CABINET W/8 HEADS & 1 HEAD WRENCH.
11. HANGERS ARE TO BE U.L. LISTED AND F.M. APPROVED.
12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER.
13. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

| NO | REVISIONS            | DATE       | APPROVAL STAMPS |
|----|----------------------|------------|-----------------|
| 1  | DOLI REVIEW COMMENTS | 03/06/2024 |                 |
|    |                      |            |                 |
|    |                      |            |                 |
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|                |                      |               |                         |
|----------------|----------------------|---------------|-------------------------|
| Drawing Title: | FIRE PROTECTION PLAN | Contract No.: | C23-38                  |
| Drawing Date:  | 01/19/24             | Scale:        | 1/8" = 1'-0"            |
| Drawn By:      | HL                   | Approval By:  | STATE FIRE MARSHAL DIV. |
| SHEET NO.:     | FP 4 of 9            |               |                         |

**NASHWAUK KEEWATIN SCHOOLS AND WELLNESS CENTER**  
575 PLATT AVENUE EAST  
NASHWAUK, MN 55769

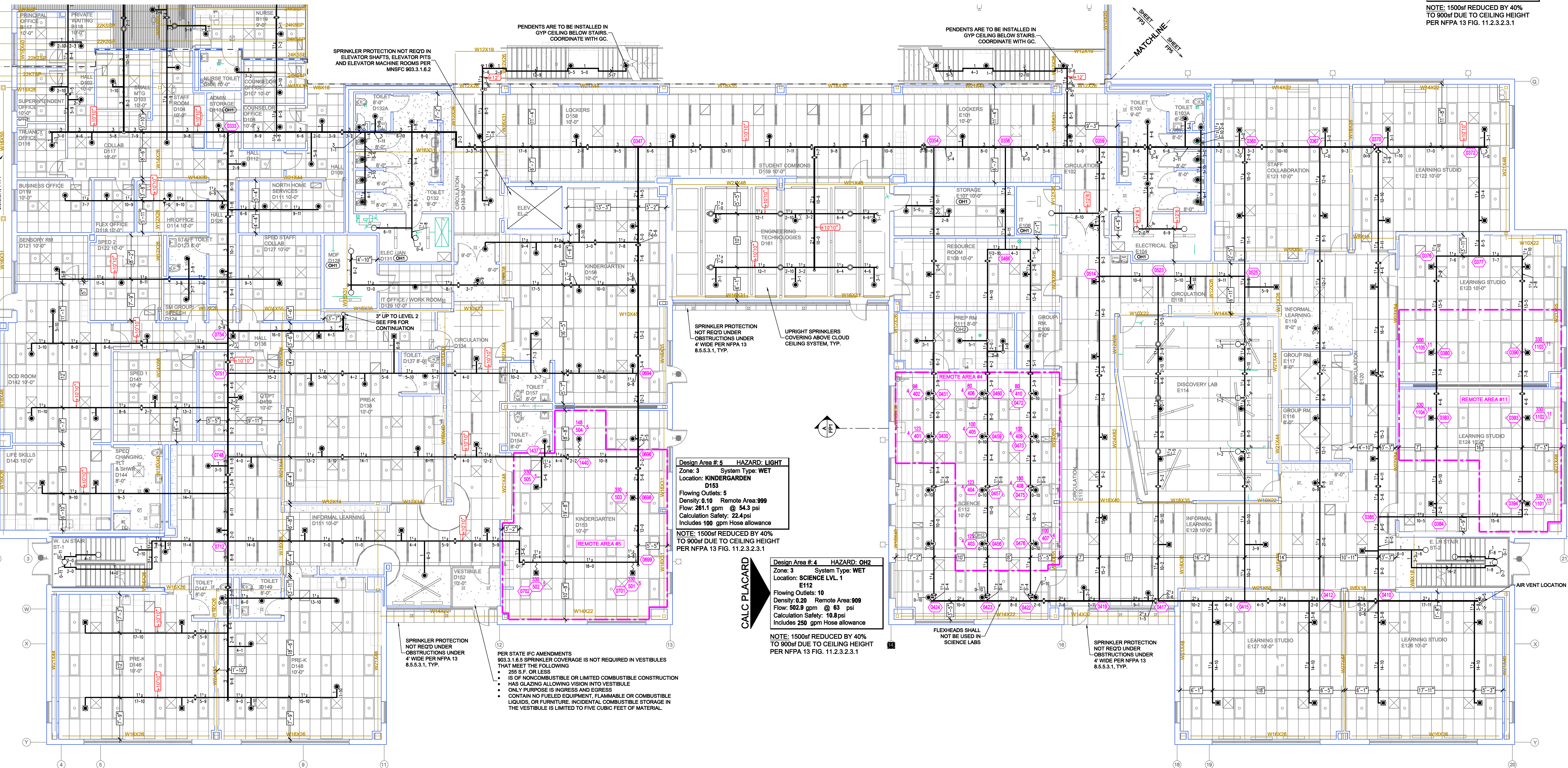
SPRINKLER HEAD LEGEND

| SYM              | CNT      | POSITION | FINISH | TEMP  | K    | NPT    | SIN      | MFG.   | MODEL#        | ESCOLT/CECN | MAX SPACING |
|------------------|----------|----------|--------|-------|------|--------|----------|--------|---------------|-------------|-------------|
| 24               | UPRIGHT  | BRASS    | 200    | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | NA            | NA          | 19' x 19'   |
| 221              | UPRIGHT  | BRASS    | 200    | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | NA            | NA          | 19' x 19'   |
| 182              | PENDENT  | WHITE    | 212    | 11.20 | 3/4" | TY332  | TYCO     | ELDOC  | CONCEALED     | 18' x 18'   | 19' x 19'   |
| 258              | PENDENT  | WHITE    | 200    | 5.60  | 1/2" | TY331  | TYCO     | RFH    | CONCEALED     | 19' x 19'   | 19' x 19'   |
| 98               | UPRIGHT  | BRASS    | 200    | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | NA            | NA          | 19' x 19'   |
| 3                | PENDENT  | CHROME   | 200    | 5.60  | 1"   | R5714  | RELIABLE | F3QR   | HB            | 130 SQFT.   | 14' x 14'   |
| 4                | SIDEWALL | BRASS    | 200    | 5.60  | 1/2" | TY331  | TYCO     | TY-FRB | NA            | NA          | 14' x 14'   |
| 2                | PENDENT  | WHITE    | 288    | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | SEMI-RECESSED | 130 SQFT.   | 130 SQFT.   |
| 18               | PENDENT  | WHITE    | 212    | 8.00  | 3/4" | NA342  | RELIABLE | OS     | CONCEALED     | 130 SQFT.   | OS          |
| 38               | PENDENT  | WHITE    | 165    | 11.20 | 3/4" | R7148  | RELIABLE | GA-XLO | CONCEALED     | 20' x 20'   | 20' x 20'   |
| 81               | UPRIGHT  | BRASS    | 200    | 8.00  | 3/4" | TY4151 | TYCO     | TY-B   | NA            | 130 SQFT.   | 130 SQFT.   |
| 622 TOTAL HEADS  |          |          |        |       |      |        |          |        |               |             |             |
| HEAD CAGE SYMBOL |          |          |        |       |      |        |          |        |               |             |             |

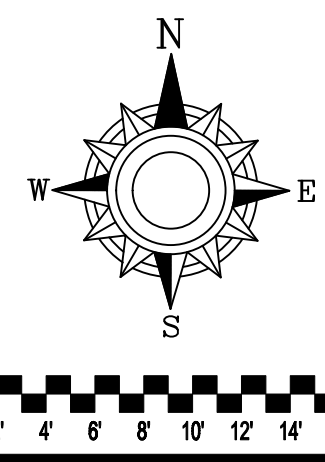
Design Area #11 HAZARD: LIGHT  
Zone: 3 System Type: WET  
Location: LEARNING STUDIO  
E124  
Flowing Outlets: 5  
Density: 0.10 Remote Area: 999  
Flow: 288.8 gpm @ 63.2 psi  
Calculation Safety: 13.4 psi  
Includes 250 gpm Hose allowance

NOTE: 1500sf REDUCED BY 40%  
TO 900sf DUE TO CEILING HEIGHT  
PER NFPA 13 FIG. 11.2.3.2.3.1

KEY PLAN



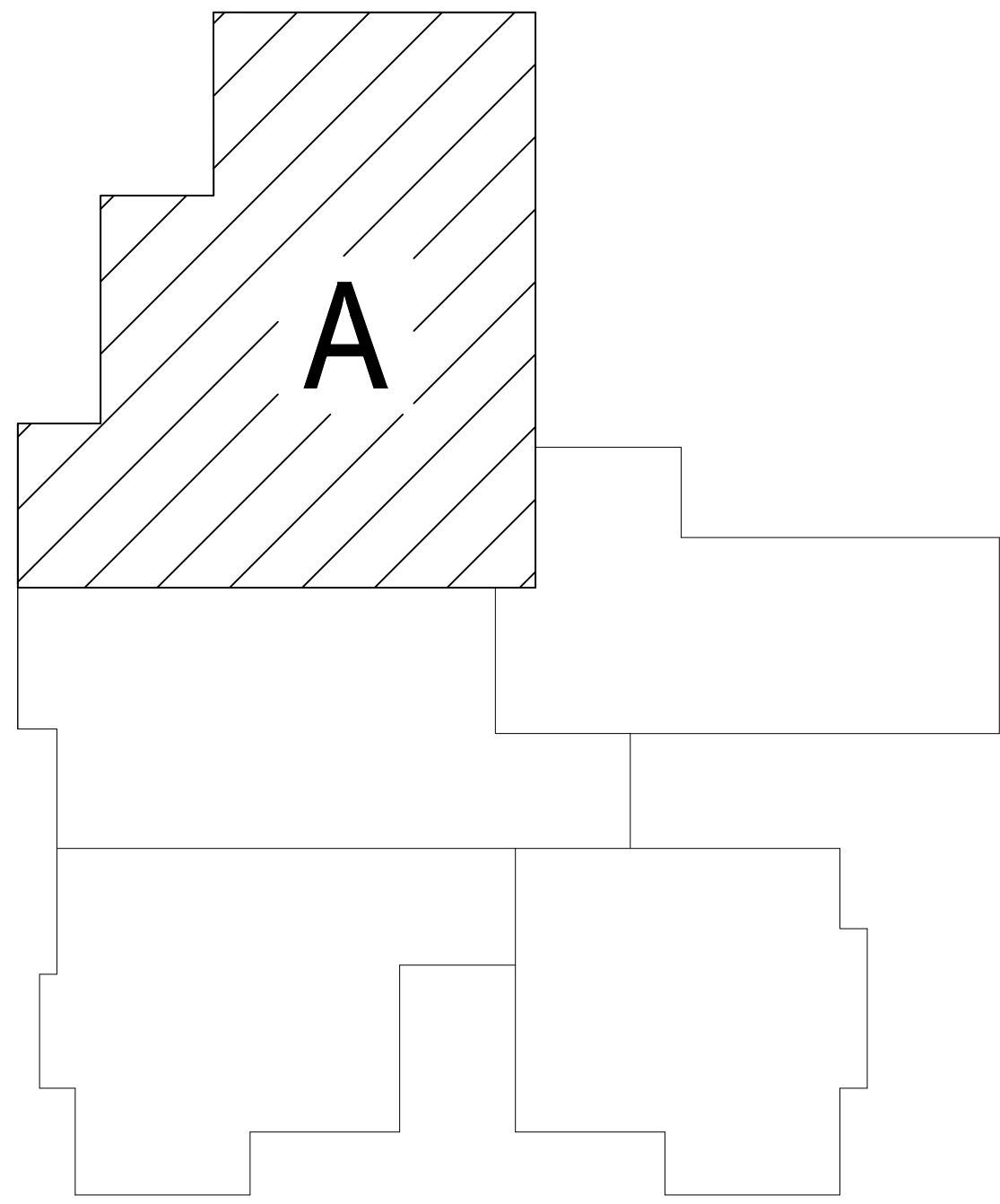
LEVEL 1 FIRE SPRINKLER PLAN AREA D/E  
SCALE = 1/8" = 1'-0"



- GENERAL NOTES
- SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
  - ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
  - MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
  - ALL SCH-40 LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
  - ALL WELDING PER NFPA-54 (2021)
  - NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
  - ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
  - ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
  - HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
  - PROVIDE ON SPARE HEAD CABINET WITH HEADS & 1 HEAD WRENCH
  - HANGERS ARE TO BE U.L. LISTED AND I.A.I. APPROVED
  - ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
  - OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING

| NO | REVISIONS            | DATE       | APPROVAL STAMPS |
|----|----------------------|------------|-----------------|
| 1  | DOLI REVIEW COMMENTS | 03/06/2024 |                 |

|                                                                                                                                                      |                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drawing Title:<br><b>FIRE PROTECTION PLAN</b><br><b>NASHWAUK KEEWATIN SCHOOLS AND WELLNESS CENTER</b><br>575 PLATT AVENUE EAST<br>NASHWAUK, MN 55769 | Contract No.<br><b>C23-38</b><br>Drawing Date: 01/25/24<br>Scale: 1/8" = 1'-0"<br>Drawn By: HL<br>Approval By: STATE FIRE MARSHAL DIV.<br>SHEET NO. <b>FP 5 of 8</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|



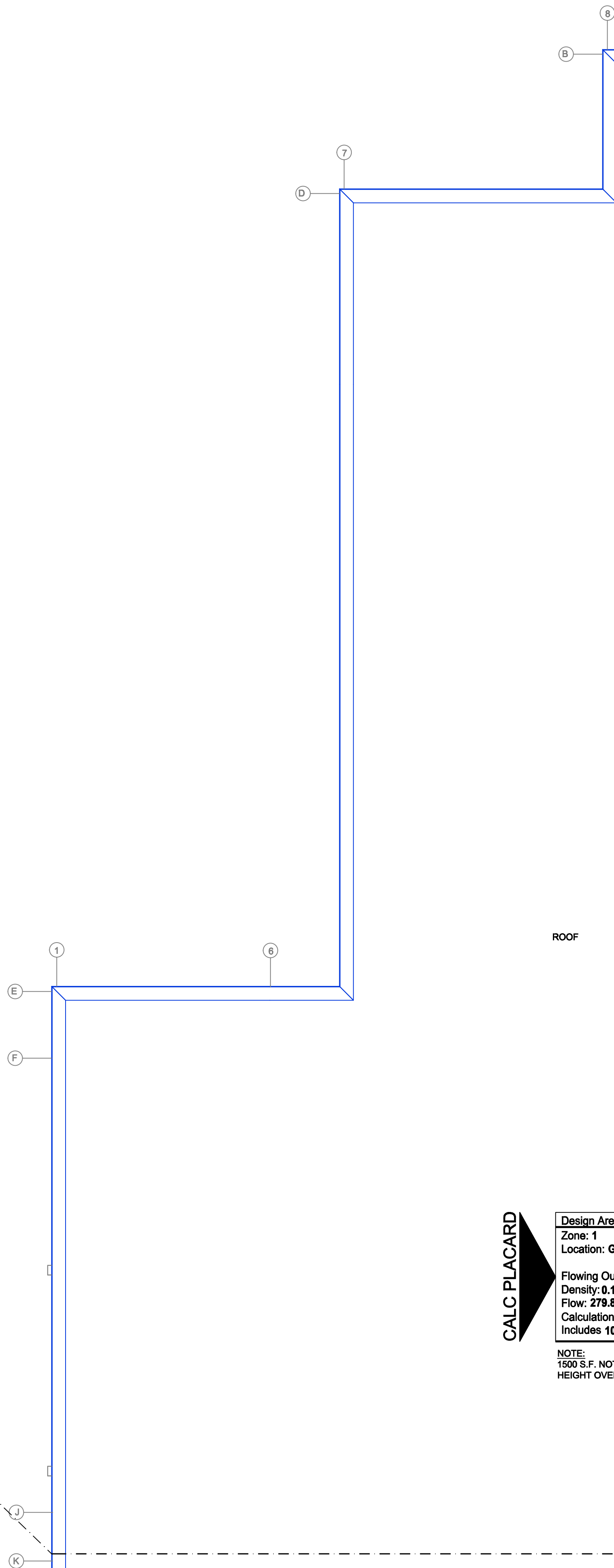
KEY PLAN

SPRINKLER HEAD LEGEND

| SYM | QTY      | POSITION | FINISH | TEMP  | K    | NPT    | SIN      | MFG.   | MODEL#       | ESCUTCHEON | MAX SPACING |
|-----|----------|----------|--------|-------|------|--------|----------|--------|--------------|------------|-------------|
| 24  | PENDENT  | BRASS    | 200    | 5.80  | 1/2" | TY323  | TYCO     | TY-FRB | N/A          |            | 15" x 15"   |
| 221 | UPRIGHT  | BRASS    | 200    | 5.80  | 1/2" | TY313  | TYCO     | TY-FRB | N/A          |            | 15" x 15"   |
| 182 | PENDENT  | WHITE    | 212    | 11.20 | 3/4" | TY522  | TYCO     | ELOC   | CONCEALED    |            | 18" x 18"   |
| 258 | PENDENT  | WHITE    | 200    | 5.80  | 1/2" | TY331  | TYCO     | RFT    | CONCEALED    |            | 15" x 15"   |
| 86  | UPRIGHT  | BRASS    | 200    | 5.80  | 1/2" | TY313  | TYCO     | TY-FRB | N/A          |            | 15" x 15"   |
| 3   | PENDENT  | CHROME   | 200    | 5.80  | 1"   | R5714  | RELIABLE | F3QR   | HB           |            | 130 SQFT.   |
| 4   | SIDEWALL | BRASS    | 200    | 5.80  | 1/2" | TY331  | TYCO     | TY-FRB | N/A          |            | 14" x 14"   |
| 2   | PENDENT  | WHITE    | 286    | 5.80  | 1/2" | TY323  | TYCO     | TY-FRB | SEM-RECESSED |            | 130 SQFT.   |
| 15  | PENDENT  | WHITE    | 212    | 8.00  | 3/4" | RA3412 | RELIABLE | OS     | CONCEALED    |            | 130 SQFT.   |
| 36  | PENDENT  | WHITE    | 165    | 11.20 | 3/4" | R7146  | RELIABLE | GA-XLO | CONCEALED    |            | 20" x 20"   |
| 81  | UPRIGHT  | BRASS    | 200    | 8.00  | 3/4" | TY4151 | TYCO     | TY-B   | N/A          |            | 130 SQFT.   |

822 TOTAL HEADS  
HEAD CAGE SYMBOL

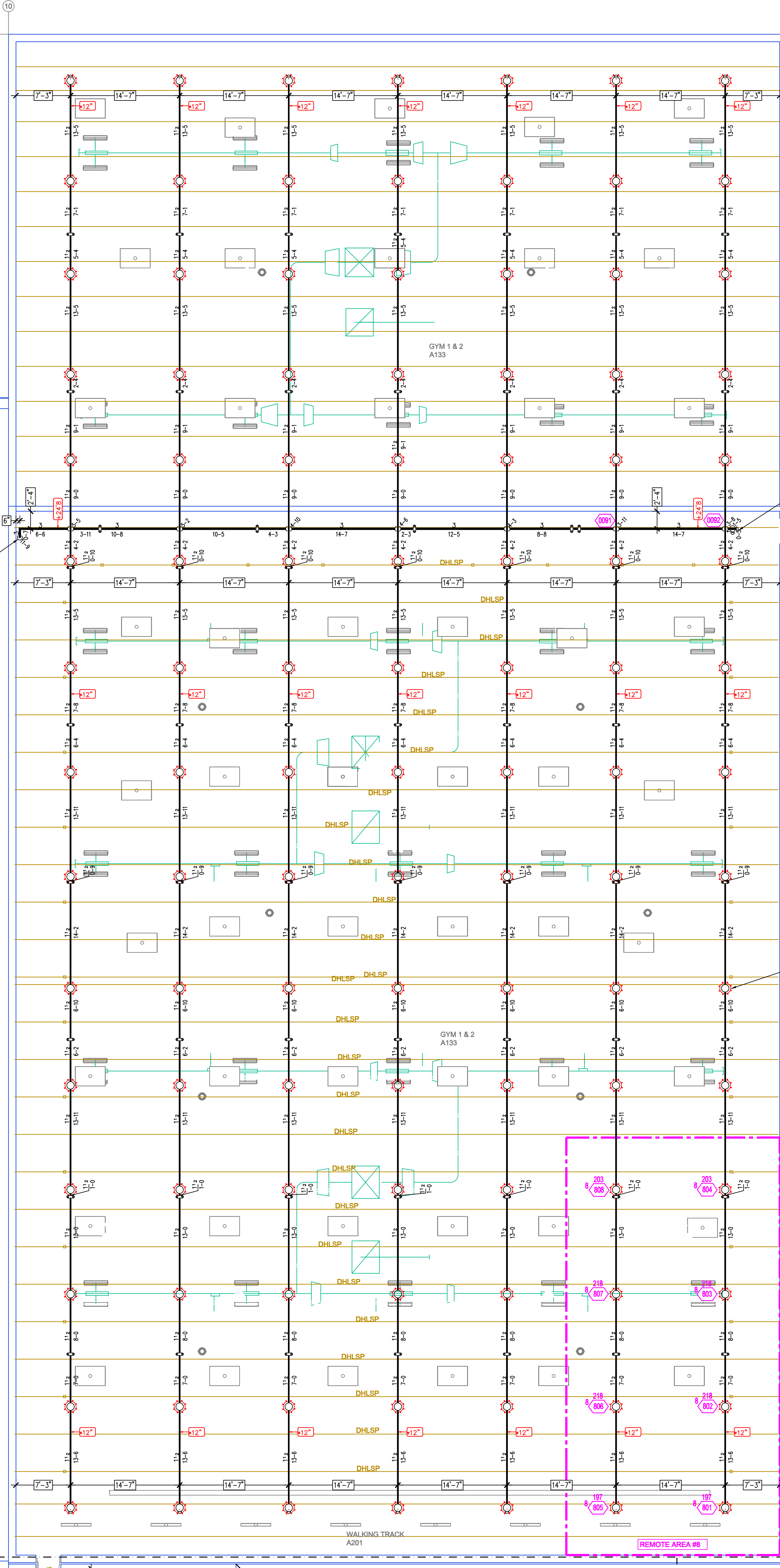
LEVEL 2 FIRE SPRINKLER PLAN AREA A  
SCALE= 1/8" = 1'-0"



CALC PLACARD  
Design Area #: 8 HAZARD: LIGHT  
Zone: 1 System Type: WET  
Location: GYM  
Flowing Outlets: 8  
Density: 0.10 Remote Area: 1588  
Flow: 279.8 gpm @ 71.2 psi  
Calculation Safety: 5.4 psi  
Includes 100 gpm Hose allowance  
NOTE:  
1500 S.F. NOT REDUCED DUE TO CEILING  
HEIGHT OVER 20'-0"

SEE SHEET 10  
MATCHLINE  
SEE SHEET 11

3" UP FROM PIPING  
BELOW SEE FPS



AIR VENT LOCATION

NONCOMBUSTIBLE EXTERIOR  
STARTOWER, NO PROTECTION  
REQD PER NFPA 13 & 15.7.2.

HEAD CAGE, TYP.

ZONE 1  
ZONE 2

SEE SHEET 10  
MATCHLINE  
SEE SHEET 11

| NO | REVISIONS            | DATE       | APPROVAL STAMPS |
|----|----------------------|------------|-----------------|
| 1  | DOLI REVIEW COMMENTS | 03/06/2024 |                 |
|    |                      |            |                 |
|    |                      |            |                 |
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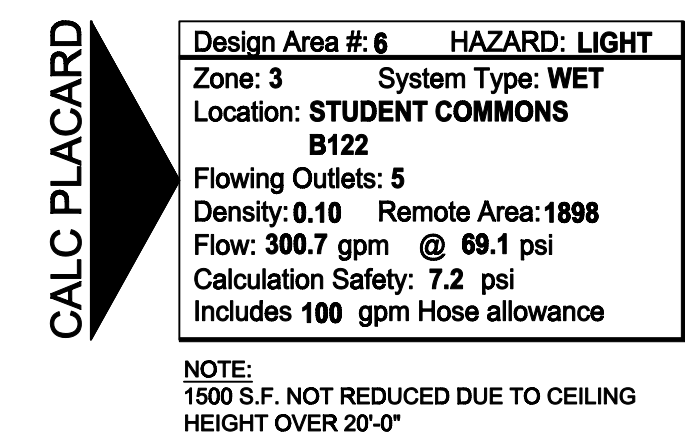
GENERAL NOTES

- SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
- ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
- MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
- ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
- ALL WELDING PER NFPA-554.2.2
- NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
- ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
- ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
- HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
- PROVIDE ON SPARE HEAD CABINET W/8 HEADS & 1 HEAD WRENCH
- MANIFOLD ARE TO BE U.L. LISTED AND I.M. APPROVED
- ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
- OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

|                                                                                                                               |                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drawing Title:<br><b>NASHWAUK KEEWATIN<br/>SCHOOLS AND<br/>WELLNESS CENTER</b><br>575 PLATT AVENUE EAST<br>NASHWAUK, MN 55769 | Contract No.<br><b>C23-38</b><br>Drawing Date: 01/25/24<br>Scale: 1/8" = 1'-0"<br>Drawn By: HL<br>Approval By: STATE FIRE<br>MARSHAL DIV.<br>SHEET NO. FP 6 of 8 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| SYM | CNT | POSITION | FINISH | TEMP | K     | NPT  | SN     | IMG.     | MODE#   | ESCU/CHCON    | MAX SPACING |
|-----|-----|----------|--------|------|-------|------|--------|----------|---------|---------------|-------------|
| ○   | 24  | PENDENT  | BRASS  | 200  | 5.60  | 1/2" | TY323  | TYCO     | TY-FRNB | NA            | 15' x 15'   |
| ○   | 21  | UPRIGHT  | BRASS  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRNB | NA            | 15' x 15'   |
| ●   | 182 | PENDENT  | WHITE  | 212  | 11.20 | 3/4" | TY6522 | TYCO     | ELOC    | CONCEALED     | 18' x 18'   |
| ●   | 158 | UPRIGHT  | WHITE  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRNB | NA            | 15' x 15'   |
| ●   | 18  | UPRIGHT  | BRASS  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRNB | NA            | 15' x 15'   |
| ●   | 3   | PENDENT  | CHROME | 200  | 5.60  | 1"   | R5714  | RELIABLE | F3QR    | HB            | 130 SQFT.   |
| ▲   | 4   | SIDEWALL | BRASS  | 200  | 5.60  | 1/2" | TY3331 | TYCO     | TY-FRNB | NA            | 14' x 14'   |
| ▲   | 2   | PENDENT  | WHITE  | 288  | 5.60  | 1/2" | TY323  | TYCO     | TY-FRNB | SEMI-RECESSED | 130 SQFT.   |
| ●   | 15  | PENDENT  | WHITE  | 212  | 11.00 | 3/4" | RA3412 | RELIABLE | GS      | CONCEALED     | 130 SQFT.   |
| ●   | 16  | PENDENT  | WHITE  | 116  | 11.20 | 3/4" | RT46   | RELIABLE | GA40    | CONCEALED     | 28' x 20'   |
| ○   | 18  | UPRIGHT  | BRASS  | 200  | 5.60  | 3/4" | TY4151 | TYCO     | TY-Ø    | NA            | 130 SQFT.   |

822 TOTAL HEADS  
 HEAD CASE SYMBOL



 **LEVEL 2 FIRE SPRINKLER PLAN AREA B**  
SCALE= 1/8" : 1'-0"



1. SYSTEM INSTALLED PER NFPA 13 (2016 EDITION) AND STATE FIRE MARSHAL
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
4. ALL SCH-40 LIGHTWALL PIPE SHALL HAVE WELDED OUTLETS & GROOVED SHORT RADII FITTINGS
5. ALL WELDING PER NFPA 13(4-2.4)
6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
7. ALL CONNECTIONS ARE TO BE MADE PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
8. DIMENSIONS SHOWN ARE CENTER TO CENTER
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
10. REMOVE ON SPARE HEAD CABINET BE HEADS & HEAD WRENCH
11. HANGERS ARE TO BE U.L. LISTED AND TO BE INSTALLED PER NFPA 13
12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY WIRE
13. OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING

[illegible]

|                    |                                                                                                                     |               |              |
|--------------------|---------------------------------------------------------------------------------------------------------------------|---------------|--------------|
| Drawing:<br>Title: | FIRE PROTECTION PLAN                                                                                                | Contract No.  |              |
|                    | <h1>NASHWAUK KEEWATIN SCHOOLS AND WELLNESS CENTER</h1> <p>575 PLATT AVENUE EAST<br/>         NASHWAUK, MN 55769</p> | <b>C23-38</b> |              |
|                    |                                                                                                                     | Drawing Date: | 01/25/24     |
|                    |                                                                                                                     | Scale:        | 1/8" = 1'-0" |
|                    |                                                                                                                     | Drawn By:     | HL           |
| Approval By:       | STATE FIRE MARSHAL DIV.                                                                                             |               |              |
|                    |                                                                                                                     | SHEET NO.     | FP 7 of 8    |

SPRINKLER HEAD LEGEND

| SYM              | QTY | POSITION | FINISH | TEMP | K     | NBY  | SN     | MPG      | MODEL  | ESCUTCHEON    | MAX SPACING |
|------------------|-----|----------|--------|------|-------|------|--------|----------|--------|---------------|-------------|
| ●                | 24  | PENDENT  | BRASS  | 200  | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | N/A           | 15' x 15'   |
| ○                | 221 | UPRIGHT  | BRASS  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | N/A           | 15' x 15'   |
| ●                | 182 | PENDENT  | WHITE  | 212  | 11.20 | 3/4" | TY522  | TYCO     | ELOC   | CONCEALED     | 18' x 18'   |
| ●                | 258 | PENDENT  | WHITE  | 200  | 5.60  | 1/2" | TY331  | TYCO     | RFI    | CONCEALED     | 15' x 15'   |
| ○                | 58  | UPRIGHT  | BRASS  | 200  | 5.60  | 1/2" | TY313  | TYCO     | TY-FRB | N/A           | 15' x 15'   |
| ●                | 3   | PENDENT  | CHROME | 200  | 5.60  | 1"   | R5714  | RELIABLE | F3OR   | HB            | 130 SQFT.   |
| ▲                | 4   | SIDEWALL | BRASS  | 200  | 5.60  | 1/2" | TY331  | TYCO     | TY-FRB | N/A           | 14' x 14'   |
| ▲                | 2   | PENDENT  | WHITE  | 286  | 5.60  | 1/2" | TY323  | TYCO     | TY-FRB | SEMI-RECESSED | 130 SQFT.   |
| ●                | 15  | PENDENT  | WHITE  | 212  | 8.00  | 3/4" | RA3412 | RELIABLE | G5     | CONCEALED     | 130 SQFT.   |
| ●                | 16  | PENDENT  | WHITE  | 185  | 11.20 | 3/4" | R7146  | RELIABLE | GA-XLO | CONCEALED     | 20' x 20'   |
| ●                | 81  | UPRIGHT  | BRASS  | 200  | 8.00  | 3/4" | TY4151 | Typ      | TY-B   | N/A           | 130 SQFT.   |
| 822 TOTAL HEADS  |     |          |        |      |       |      |        |          |        |               |             |
| HEAD CAGE SYMBOL |     |          |        |      |       |      |        |          |        |               |             |

KEY PLAN

Design Area #3 HAZARD: LIGHT  
Zone: 3 System Type: WET  
Location: LEARNING STUDIO  
D224  
Flowing Outlets: 5  
Density: 0.10 Remote Area: 908  
Flow: 245.9 gpm @ 57.2 psi  
Calculation Safety: 19.6 psi  
Includes 100 gpm hose allowance  
NOTE: 1500sf REDUCED BY 40%  
TO 900sf DUE TO CEILING HEIGHT  
PER NFPA 13 FIG. 11.2.3.2.3.1

Design Area #2 HAZARD: LIGHT  
Zone: 3 System Type: WET  
Location: LEARNING STUDIO  
E216  
Flowing Outlets: 5  
Density: 0.10 Remote Area: 951  
Flow: 288.5 gpm @ 68.9 psi  
Calculation Safety: 7.8 psi  
Includes 100 gpm hose allowance  
NOTE: 1500sf REDUCED BY 40%  
TO 900sf DUE TO CEILING HEIGHT  
PER NFPA 13 FIG. 11.2.3.2.3.1

Design Area #1 HAZARD: OH2  
Zone: 3 System Type: WET  
Location: SCIENCE LVL. 2  
E208  
Flowing Outlets: 10  
Density: 0.20 Remote Area: 913  
Flow: 489.1 gpm @ 66.6 psi  
Calculation Safety: 7.4 psi  
Includes 250 gpm hose allowance  
NOTE: 1500sf REDUCED BY 40%  
TO 900sf DUE TO CEILING HEIGHT  
PER NFPA 13 FIG. 11.2.3.2.3.1

LEVEL 2 FIRE SPRINKLER PLAN AREA D/E  
SCALE = 1/8" = 1'-0"

GENERAL NOTES

1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
4. ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
5. ALL WELDING PER NFPA-514 (2015)
6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
10. PROVIDE ON SPRINKLER HEAD CABINET W/ HEADS & 1 HEAD WRENCH
11. HANGERS ARE TO BE U.L. LISTED AND I.M. APPROVED
12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
13. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

NO

1. DOLI REVIEW COMMENTS

REVISIONS

DATE

03/06/2024

APPROVAL STAMPS

FIRE PROTECTION PLAN

NASHWAUK KEEWATIN  
SCHOOLS AND  
WELLNESS CENTER  
575 PLATT AVENUE EAST  
NASHWAUK, MN 55769

Contract No.

C23-38

Drawing Date: 01/25/24

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

Drawn By: HL

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 8 of 8