

Roof Drawing Index  
East Bank District

Last Updated: 3/12/2014

Bldg No	Building Name	Roof Plan View Drawing	Roof Penetrations Drawing	Date Assessed
001	EDDY HALL	Y	Y	7/1/2010
002	PILLSBURY HALL	Y	Y	7/1/2010
003	PATTEE HALL	Y	Y	7/1/2010
005	NICHOLSON HALL	Y	Y	7/1/2010
006	WULLING HALL	Y	Y	7/1/2010
008	BURTON HALL	Y	Y	7/1/2010
011	ARMORY BUILDING**	Y	N	5/9/2011
011G	ARMORY GARAGE**	Y	N	5/9/2011
017	JONES HALL	Y	Y	7/1/2010
019	CHILD DEVELOPMENT BUILDING	Y	Y	7/1/2010
020	ELLIOTT HALL	Y	Y	7/1/2010
021	SHEVLIN HALL	Y	Y	7/1/2010
022	FOLWELL HALL	Y	Y	7/1/2010
028	SANFORD HALL [see Housing file*]	Y	Y	11/1/2010
030	ROY WILKINS HALL [see Housing file*]	Y	Y	11/1/2010
031	LIND HALL	Y	Y	7/1/2010
034	HEATING PLANT	Y	Y	7/1/2010
034A	COAL UNLOADING FACILITY	Y	Y	7/1/2010
035	SMITH HALL	Y	Y	7/1/2010
037	APPLEBY HALL	Y	Y	7/1/2010
040	SCOTT HALL	Y	Y	7/1/2010
041	EDUCATION SCIENCES BUILDING	Y	Y	7/1/2010
042	WALTER LIBRARY	Y	Y	7/1/2010
044	DONHOWE BUILDING	Y	Y	7/1/2010
046	MORRILL HALL	Y	Y	7/1/2010
049	TATE LABORATORY OF PHYSICS	Y	Y	7/1/2010
050	WILLIAMS ARENA	Y	Y	11/1/2001
051	FRASER HALL	Y	Y	7/1/2010
053	NORTHROP MEMORIAL AUDITORIUM	Y	Y	7/1/2010
056	COOKE HALL	Y	Y	9/12/2013
057	NOLTE CENTER FOR CONTINUING EDUCATION	Y	Y	7/1/2010
060	VINCENT HALL	Y	Y	7/1/2010
061	BELL MUSEUM OF NATURAL HISTORY, JAMES F.	Y	Y	7/1/2010
062	MURPHY HALL	Y	Y	7/1/2010
066	AMUNDSON HALL	Y	Y	7/1/2010
067	UNIVERSITY OF MINNESOTA FIELD HOUSE**	Y	N	5/6/2011
071	FORD HALL	Y	Y	7/1/2010
072	BIERMAN FIELD CLUBHOUSE	N	N	
073	JOHNSTON HALL	Y	Y	7/1/2010
078	SALT AND SAND STORAGE [NO SURVEY]	Y	Y	7/1/2010
093	1901 UNIVERSITY AVENUE SE**	Y	Y	9/12/2013
103	TRANSPORTATION AND SAFETY BUILDING	Y	Y	7/1/2010

112	RAPSON HALL, RALPH	Y	Y	7/1/2010
122	KOLTHOFF HALL	Y	Y	7/1/2010
125	SHEPHERD LABORATORIES	Y	Y	7/1/2010
127	1425 UNIVERSITY AVENUE	Y	Y	7/1/2010
138	SIEBERT STADIUM	N	N	
139	BIERMAN FIELD ATHLETIC BUILDING**	Y	Y	2/21/2012
152	WILLIAMSON HALL	Y	Y	7/1/2010
153	CANCER AND CARDIOVASCULAR RES BLDG	Y	Y	12/6/2013
156	CIVIL ENGINEERING BUILDING	Y	Y	7/1/2010
157	TRACK AND FIELD STORAGE BUILDING [NO SURVEY]	N	N	
158	WASHINGTON AVENUE PARKING RAMP	N	N	
159	GIBSON/NAGURSKI FOOTBALL PRACTICE FCLTY	Y	N	1/28/2010
160	CAMPUS SUBSTATION**	Y	Y	2/14/2012
165	KELLER HALL, KENNETH H.	Y	Y	7/1/2010
167	UNIVERSITY AQUATIC CENTER	Y	Y	
169	UNIVERSITY RECREATION CENTER	N	N	
170	FOURTH STREET PARKING RAMP	N	N	
173	CHILD DEVELOPMENT CENTER	Y	Y	9/12/2013
174	LIONS RESEARCH BLDG/MCGUIRE TR FACILITY	Y	Y	
176	MARIUCCI ARENA	Y	Y	10/1/2001
177	THOMPSON CTR FOR ENVIRONMENTAL MGMT	Y	N	10/4/2011
180	CENTER FOR MAGNETIC RESONANCE RESEARCH	Y	Y	9/12/2013
181	RIDDER ARENA & BASELINE TENNIS FACILITY	Y	Y	9/12/2013
184	INFORMATION TECHNOLOGY	Y	Y	9/12/2013
187	COWLES STADIUM, JANE SAGE	Y	Y	9/12/2013
188	UNIVERSITY AVENUE RAMP	N	N	
190	UNIVERSITY OF MINNESOTA BOATHOUSE	Y	Y	9/12/2013
191	MAST LABORATORY	Y	N	10/4/2011
192	UNIVERSITY OFFICE PLAZA	Y	N	
196	TCF BANK STADIUM	N	N	
197	WMBB-WALLIN MEDICAL BIOSCIENCES BLDG	Y	N	
198	LANDCARE AND FACILITIES OPERATIONS	Y	Y	
199	EAST GATEWAY DISTRICT STEAM DISTR.	Y	Y	
265	MECHANICAL ENGINEERING BUILDING	Y	Y	7/1/2010
266	AKERMAN HALL	Y	Y	7/1/2010
267	PEIK HALL	Y	Y	7/1/2010
268	PEIK GYMNASIUM	Y	Y	7/1/2010
269	OIL PUMP BUILDING	Y	Y	7/1/2010
299	SCIENCE TEACHING + STUDENT SERVICES	Y	N	12/6/2013

81

73

64

\*Roof Drawings organized into (4) Packages; East Bank, St Paul / West, Health Sciences & Housing

\*\*Drawings available under separate cover (available upon contract award)

# Roof ID

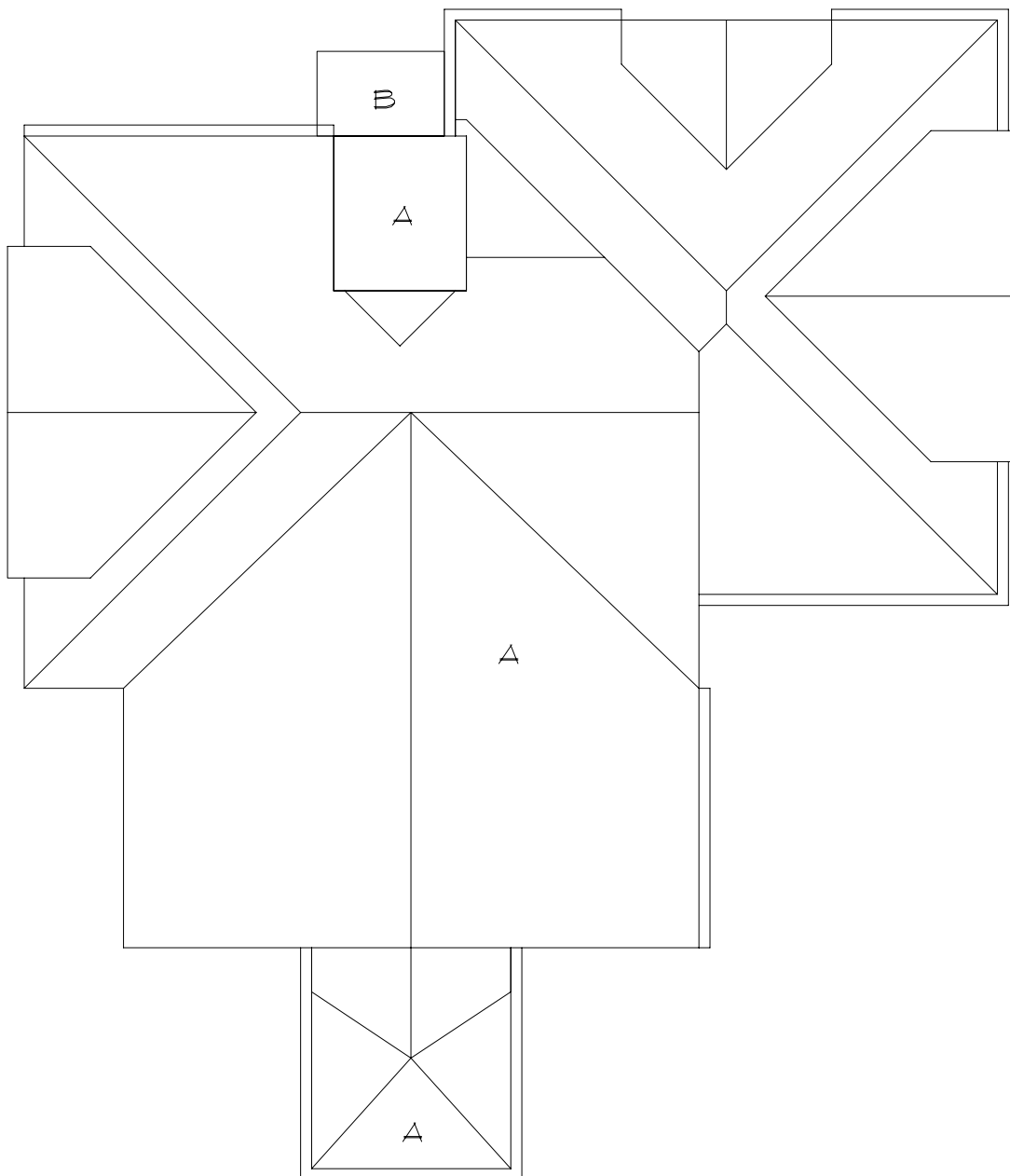
**Building:** EB001 - Eddy Hall - (192 Pillsbury Drive SE Minneapolis)

**Roof Access:** Manlift

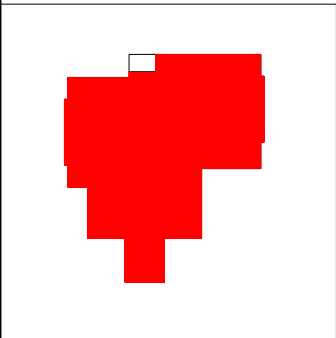
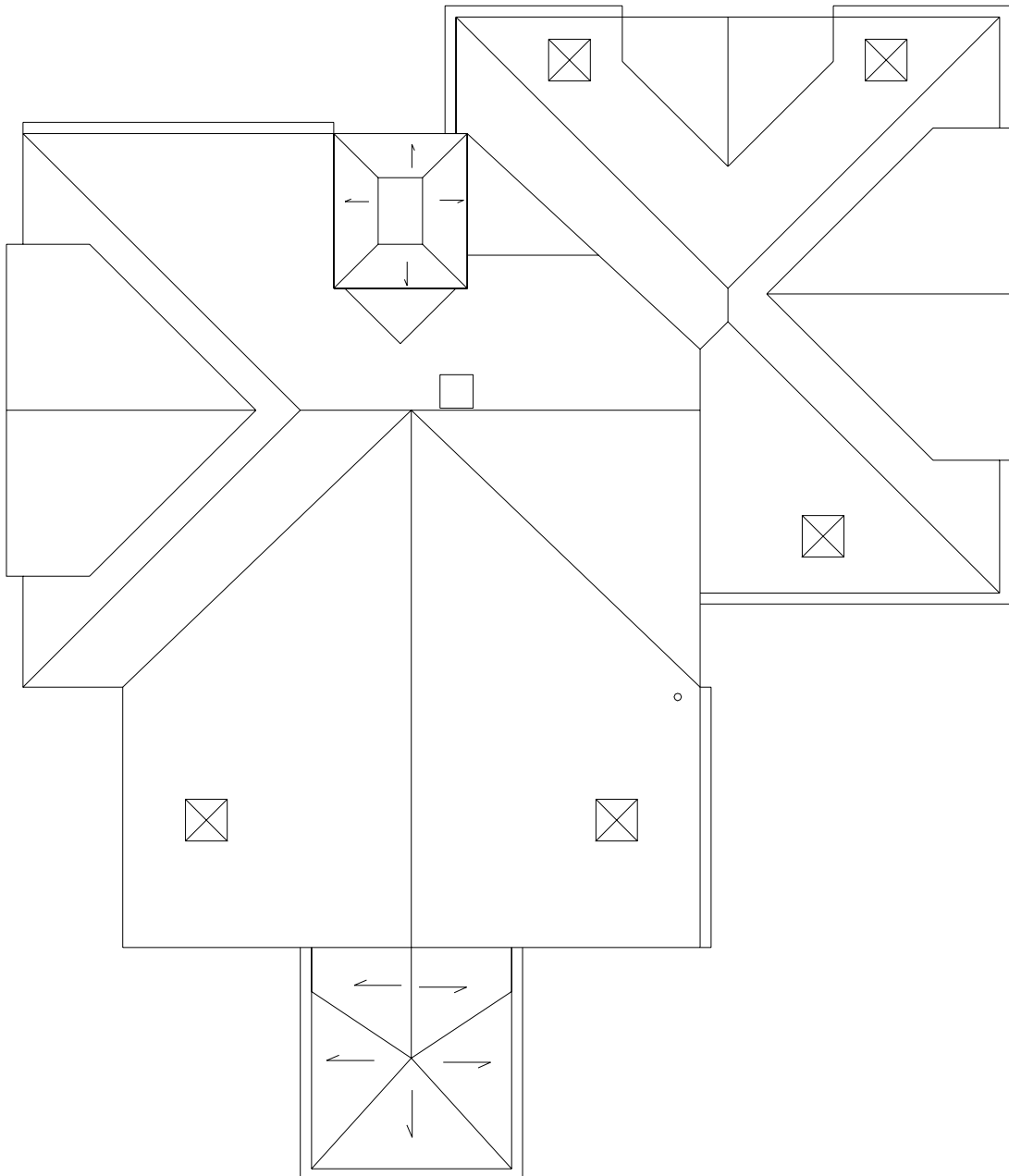
**Total Area:** 9,394 sf

**A**      **9,298**

**B**      **96**

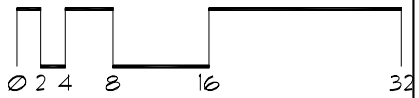


# Roof Corrective Action

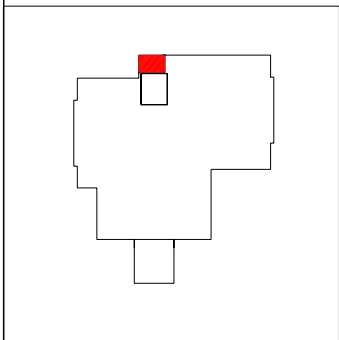
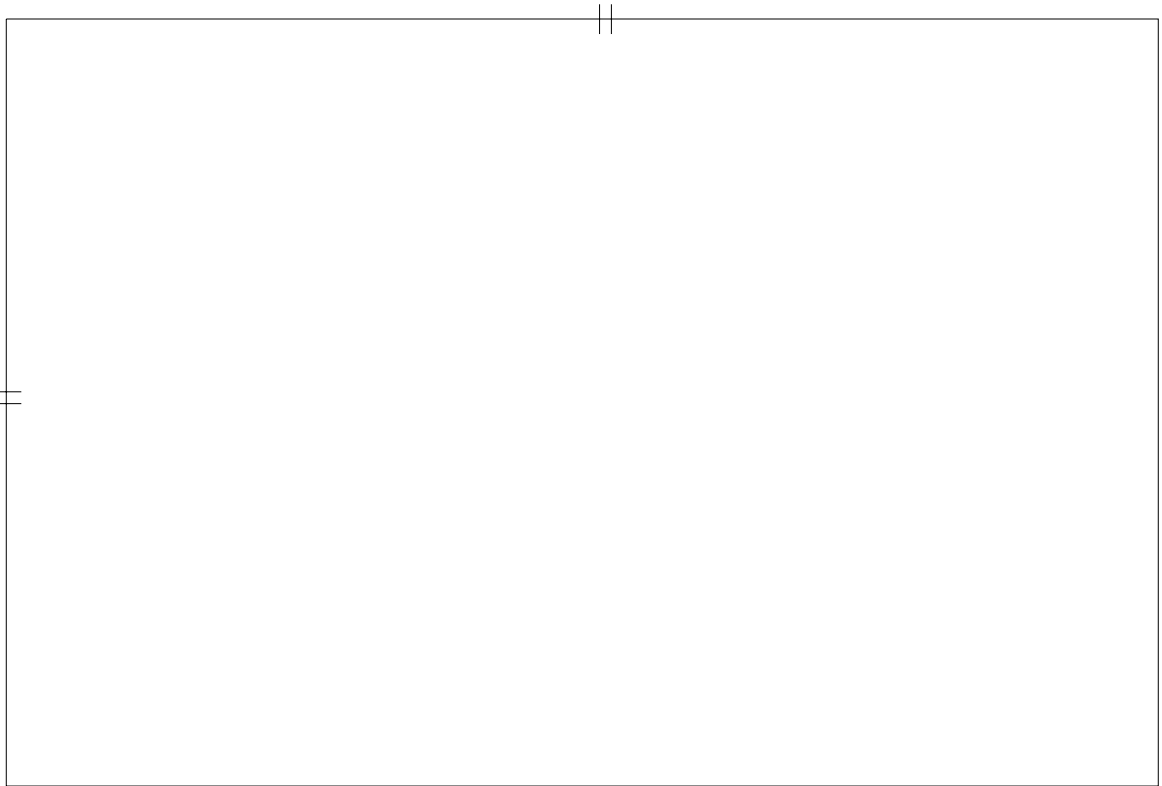


## SYMBOLS KEY

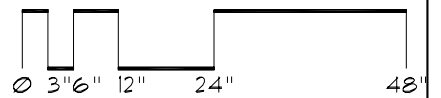
- ROOF CURB
- ⊠ SKYLIGHT
- SLOPE DIRECTION
- VENT STACK



# Roof Corrective Action



SYMBOLS KEY  
† SCUPPER  
⓪ DEFECT-NO REPAIR



# Roof ID

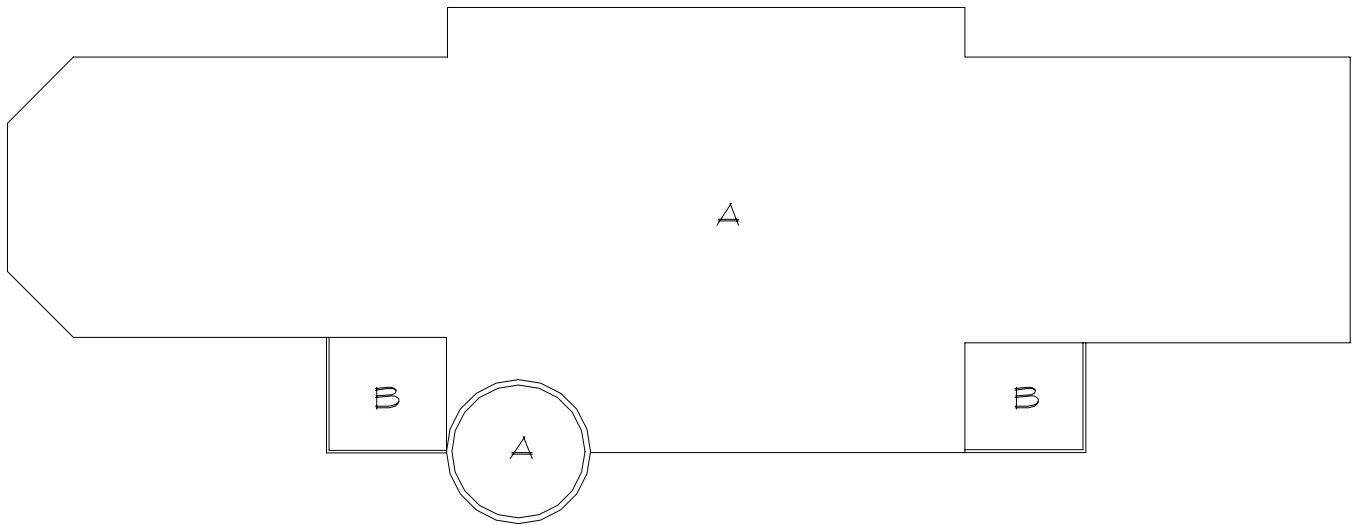
**Building:** EB002 - Pillsbury Hall - ( 310 Pillsbury Drive SE Minneapolis)

**Total Area:** 23,020 sf

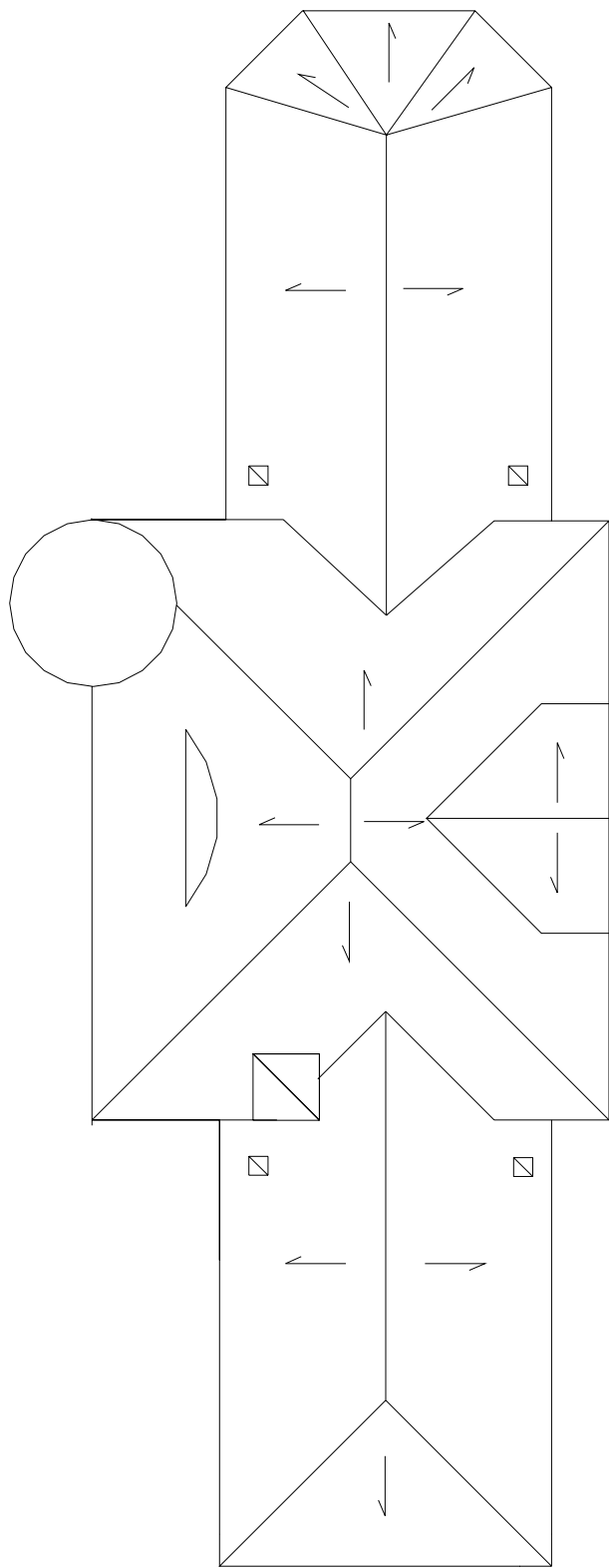
**A**      22,140

**B**      880

SYMBOLS KEY

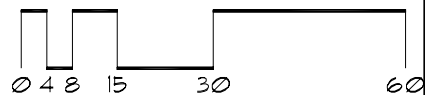
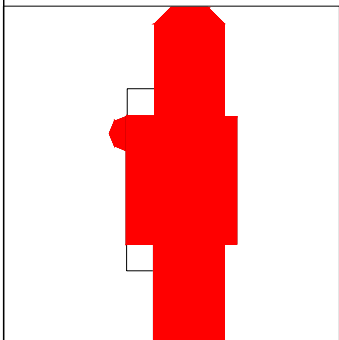


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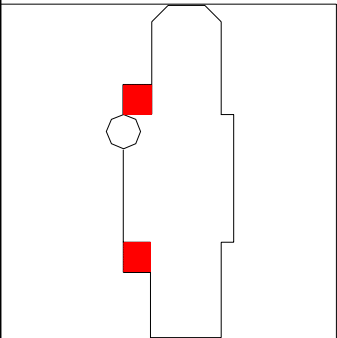
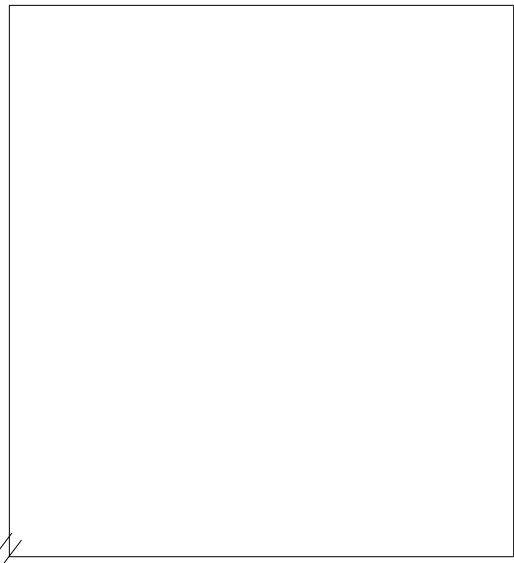
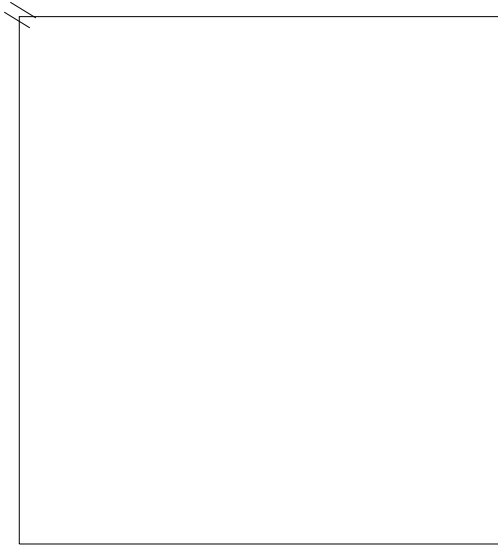


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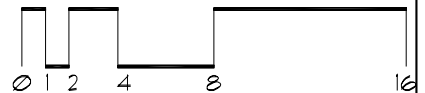
- ☐ ROOF HATCH
- SLOPE DIRECTION
- DEFECT-REPAIR



# Roof Corrective Action



SYMBOLS KEY





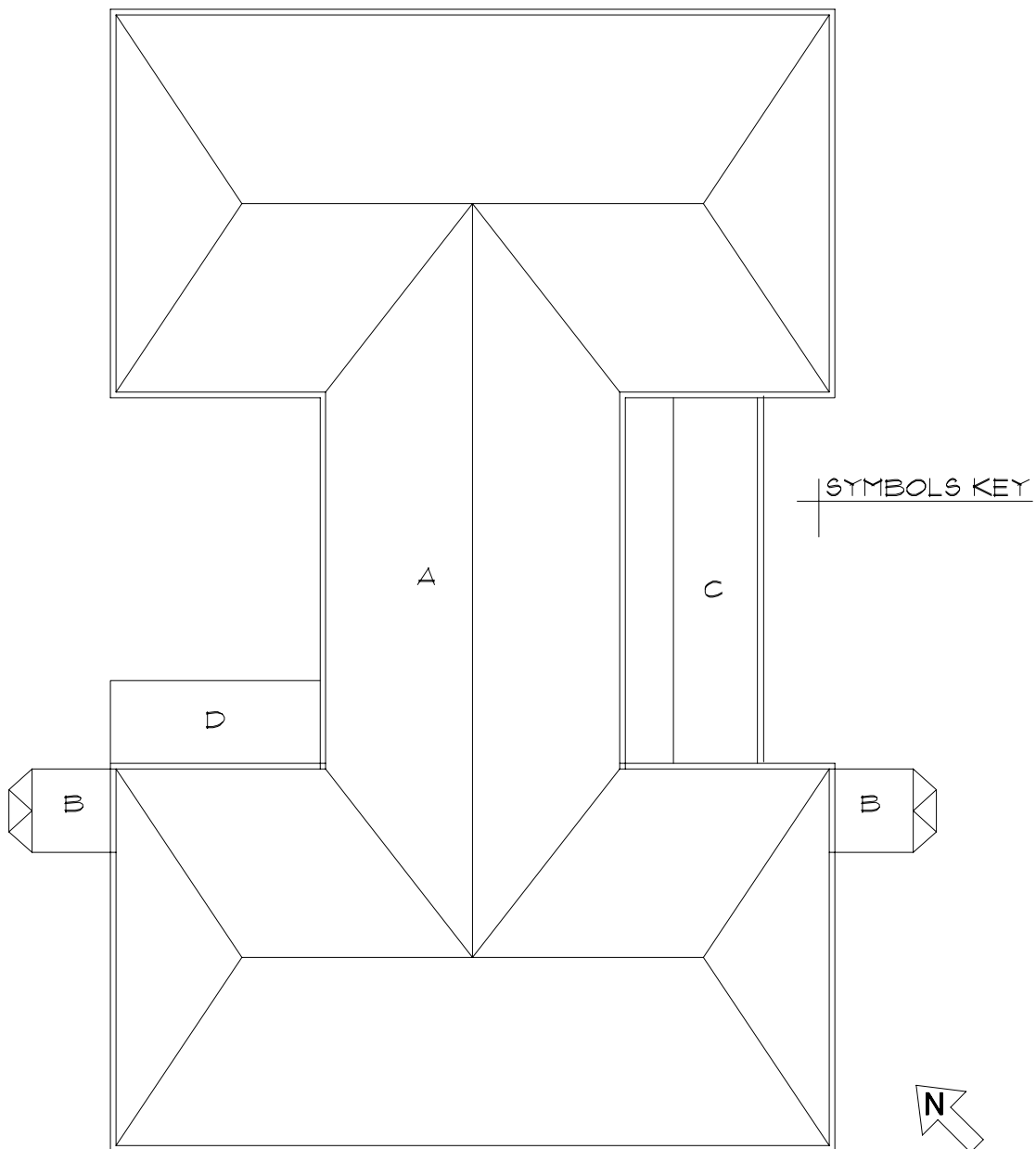
# Roof ID

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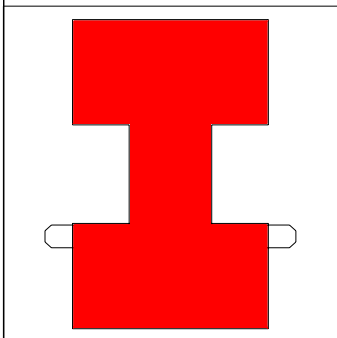
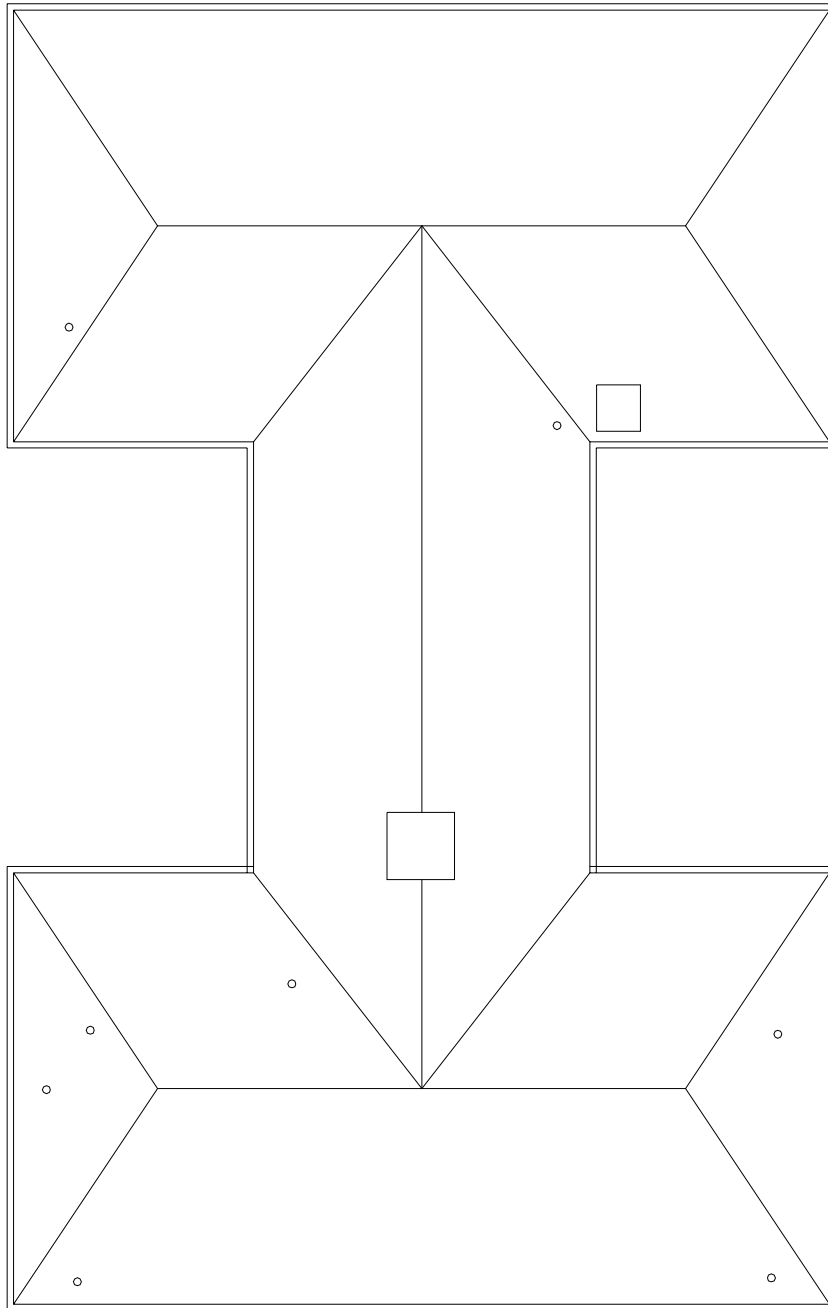
**Roof Access:** Manlift

**Total Area:** 10,870 sf

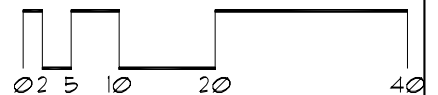
<b>A</b>	<b>9,970</b>
<b>B</b>	<b>290</b>
<b>C</b>	<b>450</b>
<b>D</b>	<b>160</b>



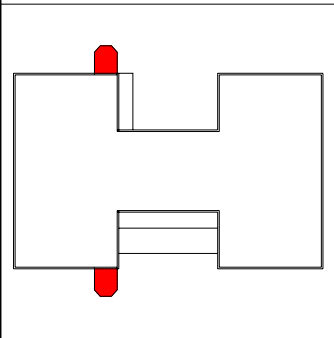
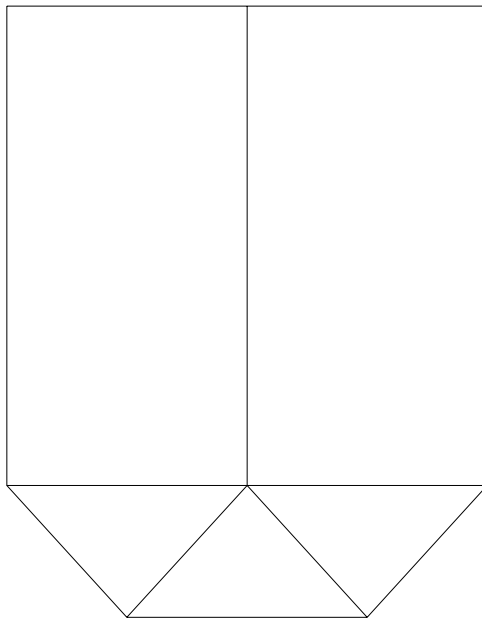
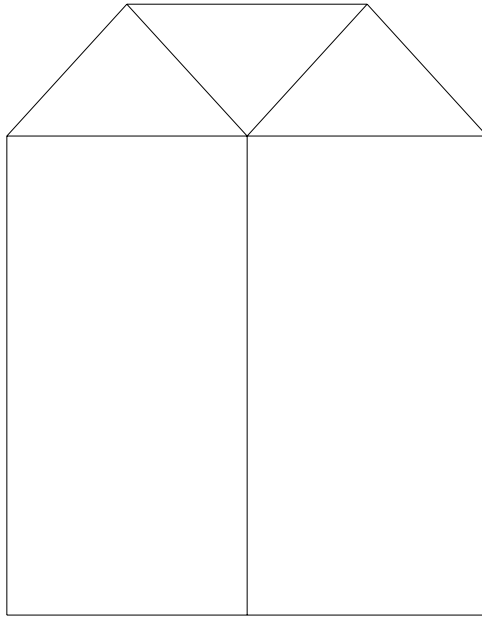
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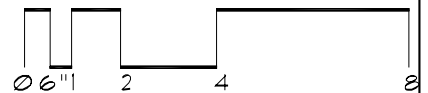
SYMBOLS KEY	
○	VENT STACK
□	ROOF CURB



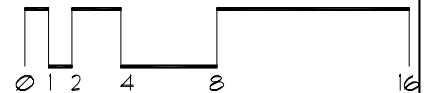
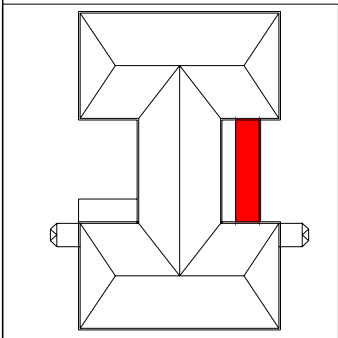
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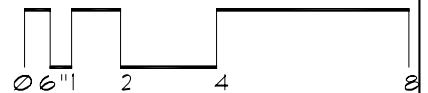
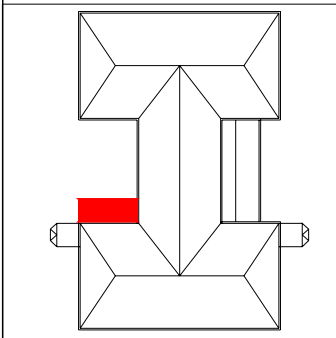
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# Roof Corrective Action



# Roof Corrective Action



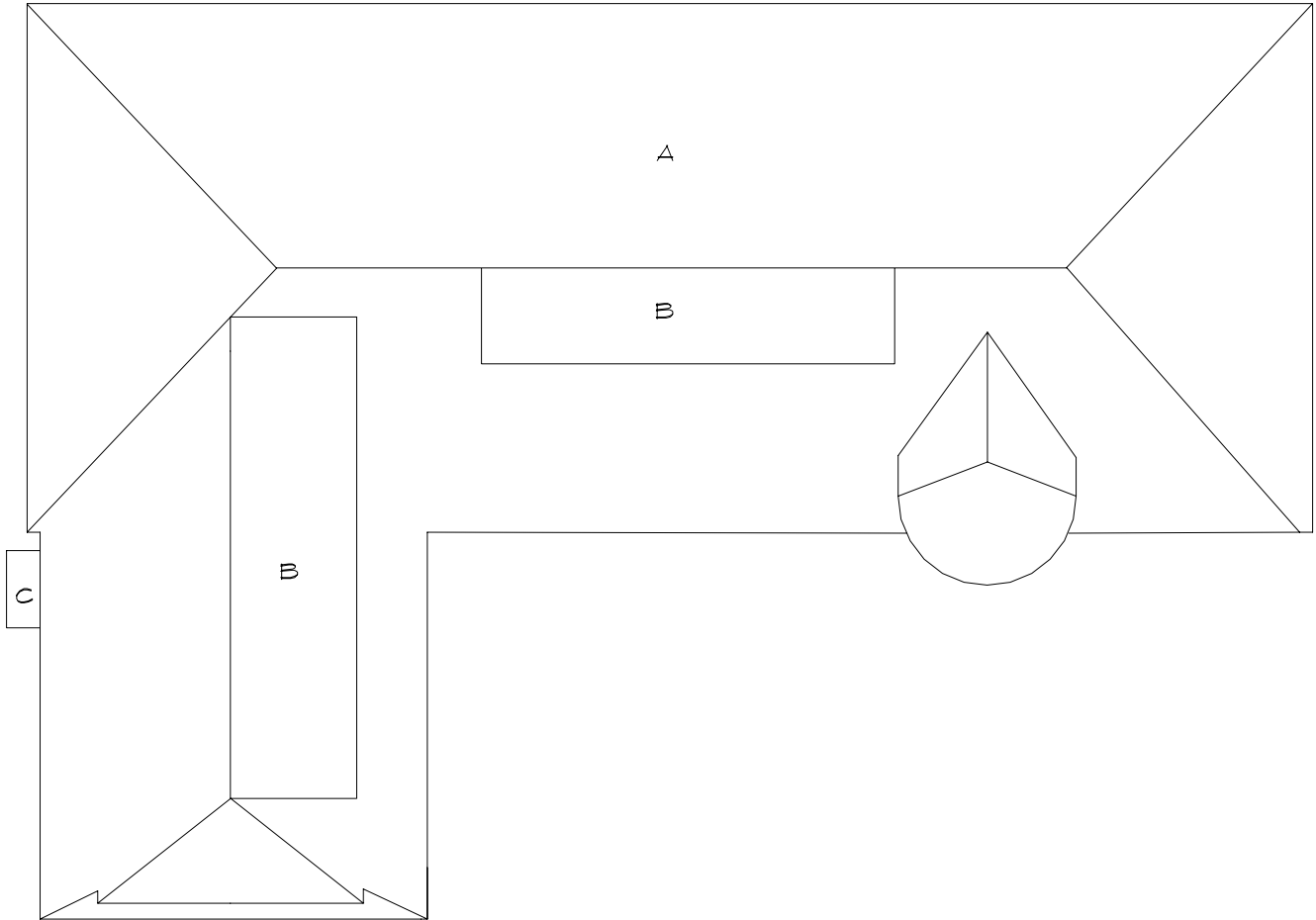
# Roof ID

**Building:** EB005 - Nicholson Hall - (216 Pillsbury Drive SE Minneapolis)

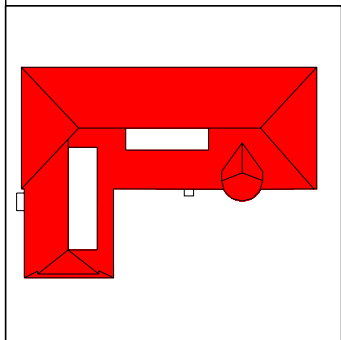
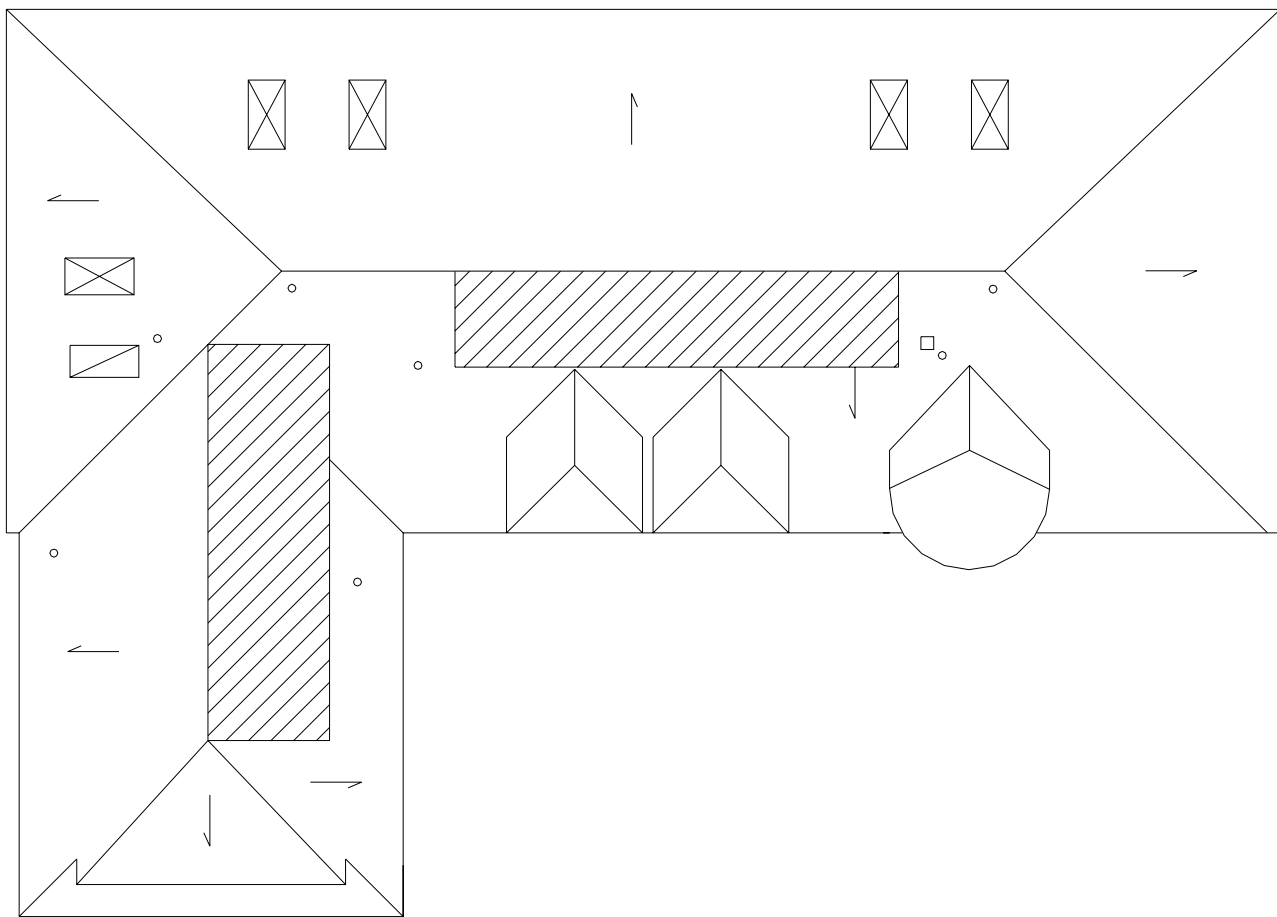
**Roof Access:** Ladder

**Total Area:** 21,352 sf

<b>A</b>	<b>18,914</b>
<b>B</b>	<b>2,044</b>
<b>C</b>	<b>250</b>
<b>D</b>	<b>144</b>

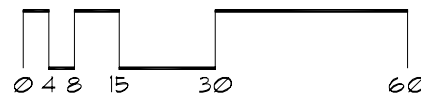


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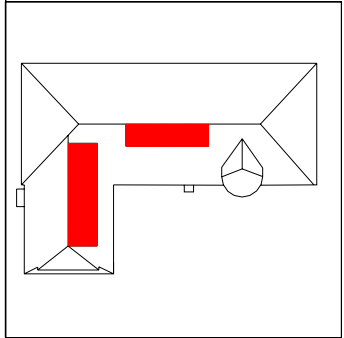
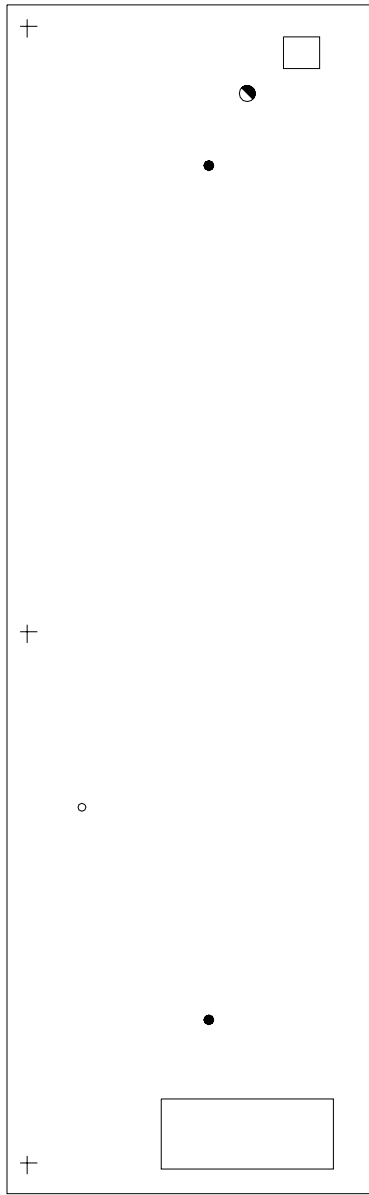


**SYMBOLS KEY**

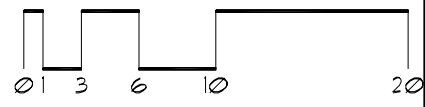
- VENT STACK
- ⊠ SKYLIGHT
- ▨ ROOF HATCH
- SLOPE DIRECTION



# Roof Corrective Action

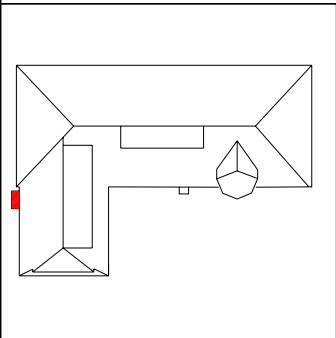
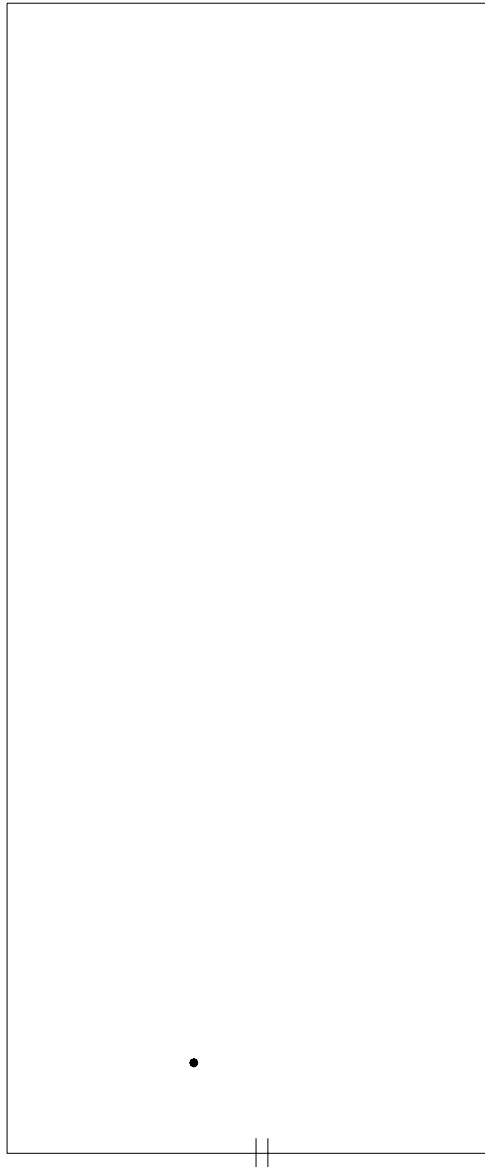


- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ⊕ FLASHED PENETRATION
  - HEAT STACK

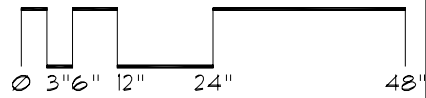




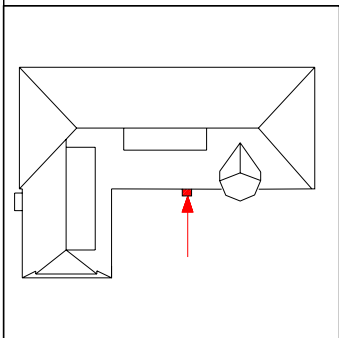
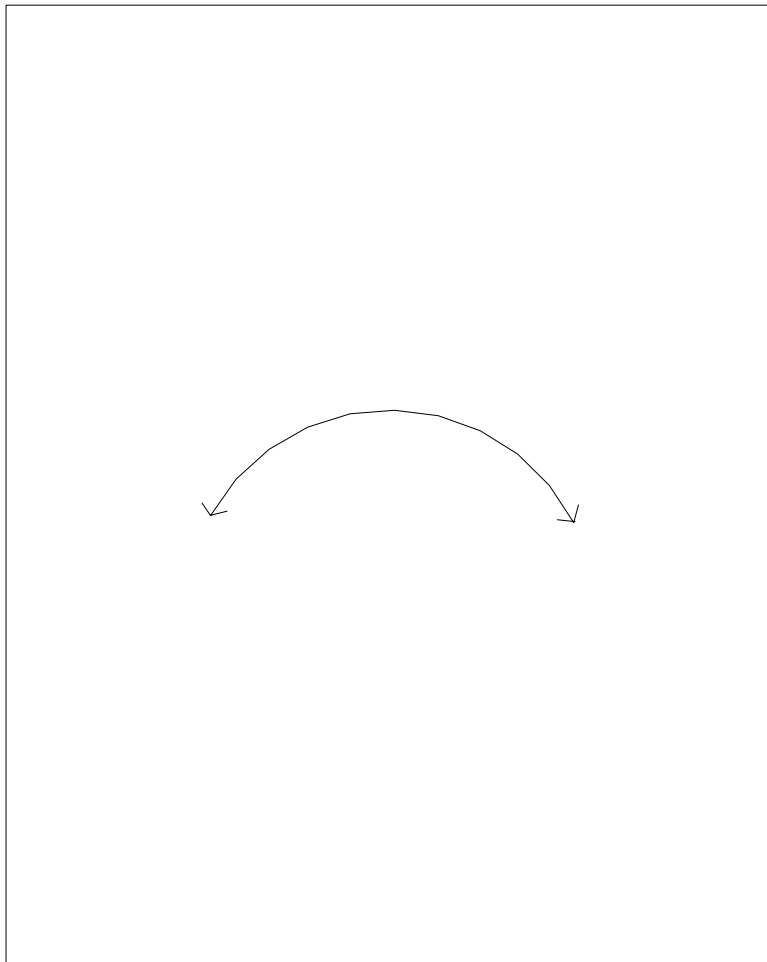
# Roof Corrective Action



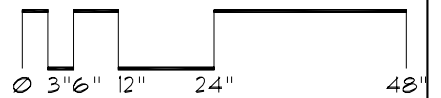
SYMBOLS KEY  
|| SCUPPER  
● ROOF DRAIN  
Ⓢ



# Roof Corrective Action



SYMBOLS KEY  
→ SLOPE DIRECTION



# Roof ID

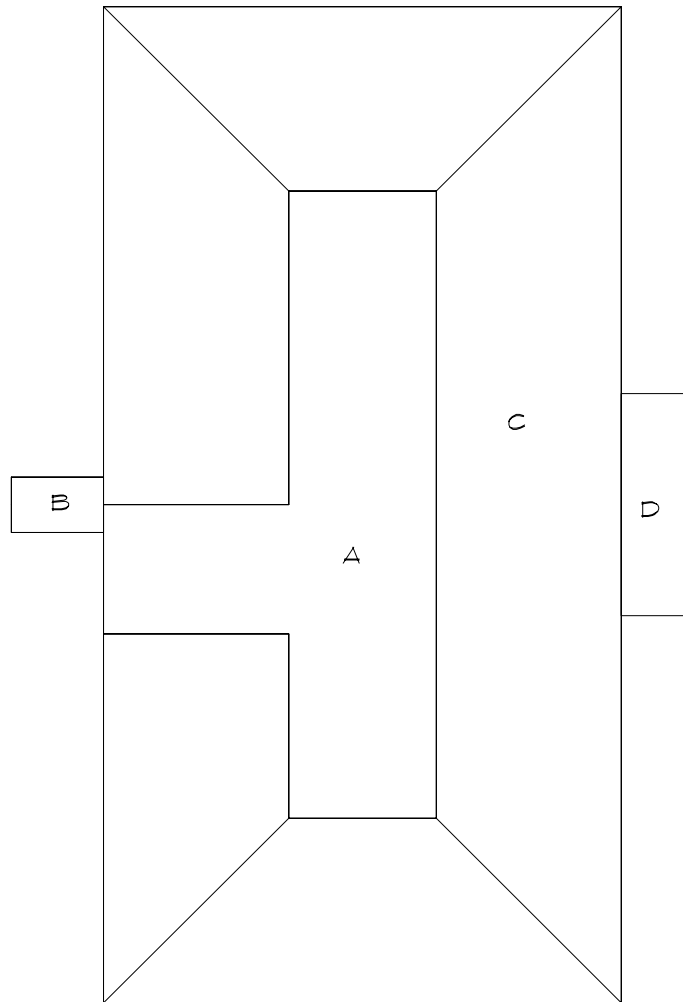
**Building:** EB006 - Wulling Hall - (86 Pleasant Street SE Minneapolis)

**Roof Access:** South stairwell room 530-boiler room

**Total Area:** 6,300 sf

<b>A</b>	<b>1,348</b>
<b>B</b>	<b>60</b>
<b>C</b>	<b>4,700</b>
<b>D</b>	<b>192</b>

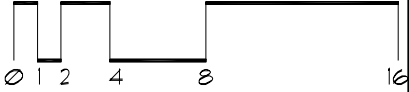
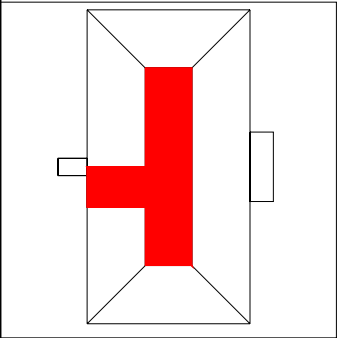
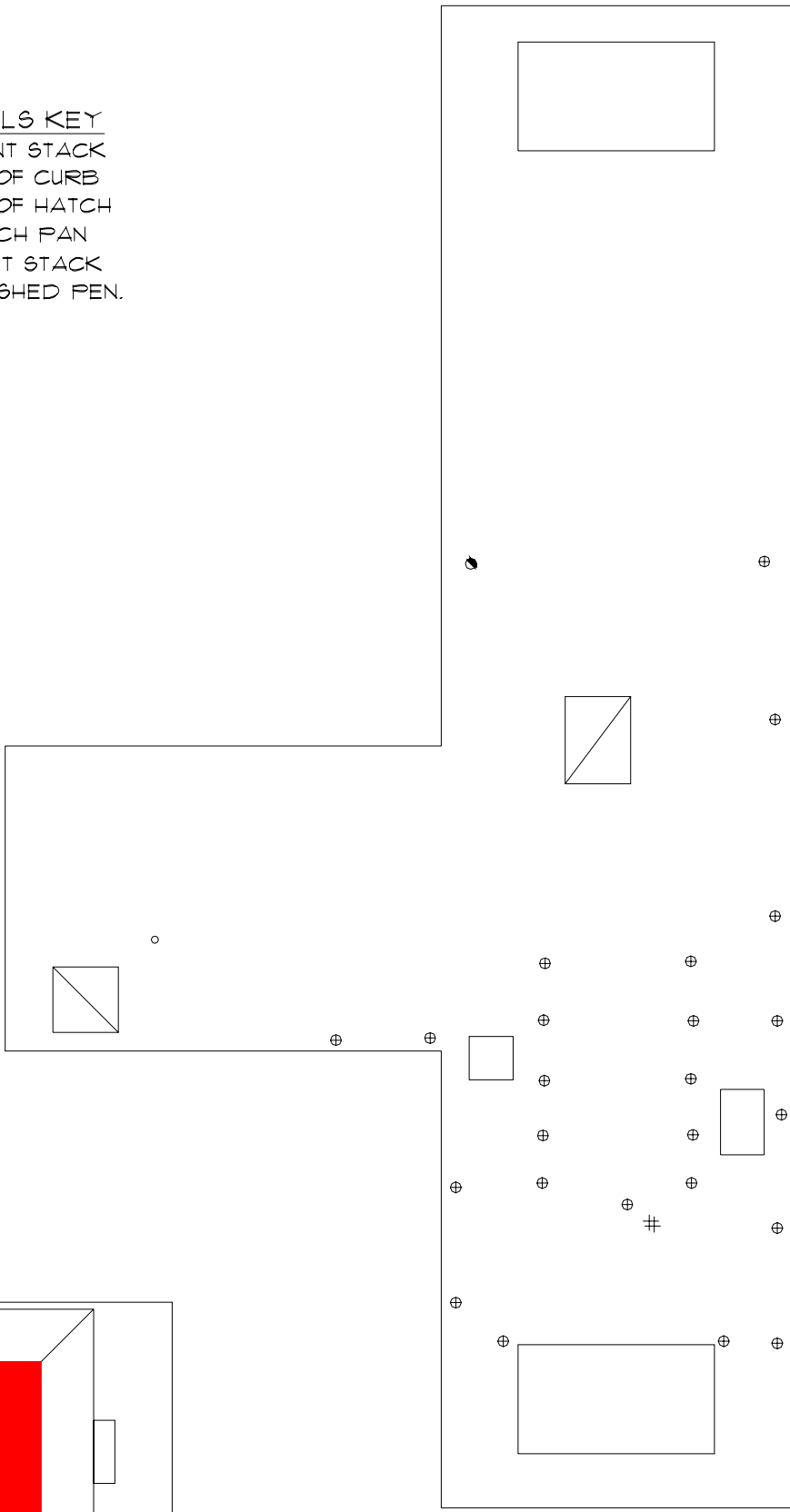
## SYMBOLS KEY



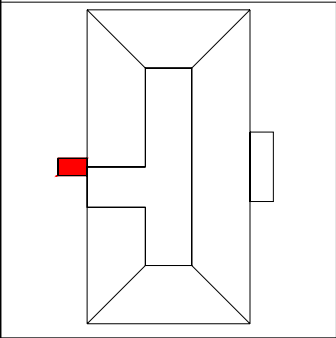
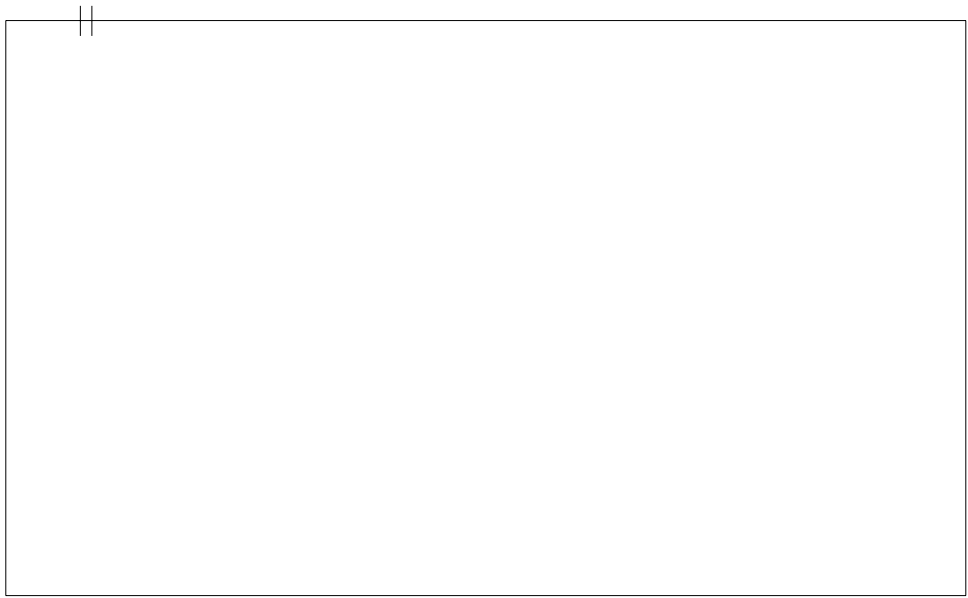
# Roof Corrective Action

## SYMBOLS KEY

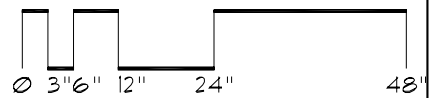
- VENT STACK
- ROOF CURB
- ▣ ROOF HATCH
- ≡ PITCH PAN
- HEAT STACK
- ⊕ FLASHED PEN.



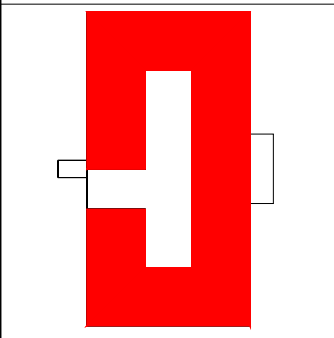
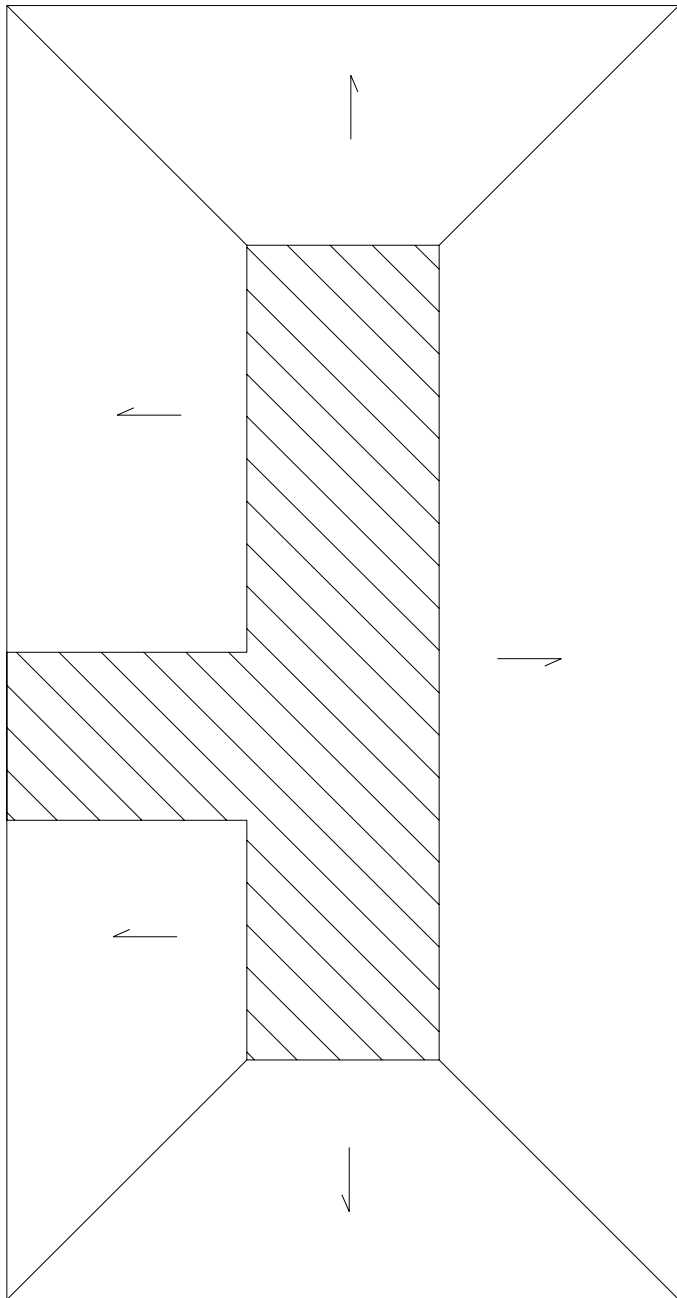
# Roof Corrective Action



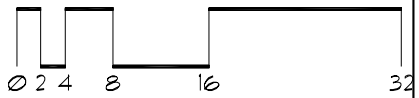
SYMBOLS KEY  
| || SCUPPER



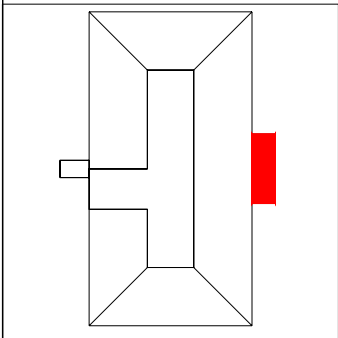
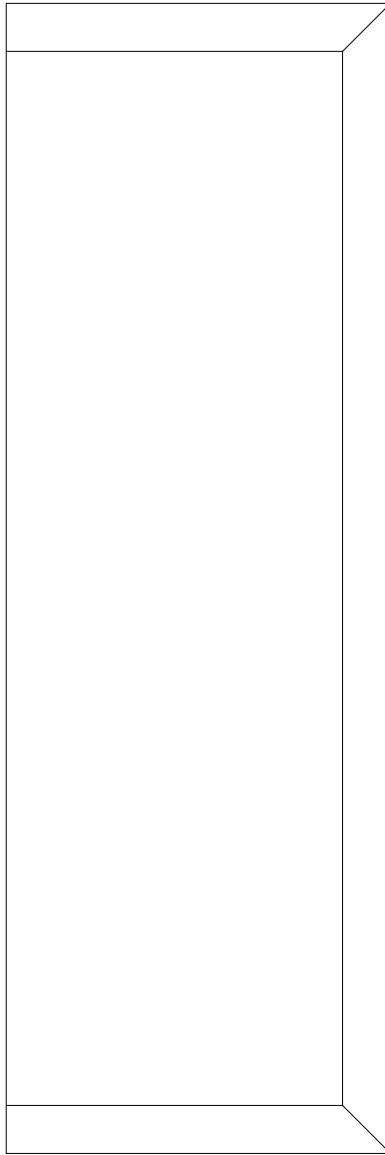
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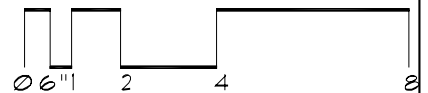
SYMBOLS KEY  
→ SLOPE DIRECTION



# Roof Corrective Action



SYMBOLS KEY  
① DEFECT-REPAIR



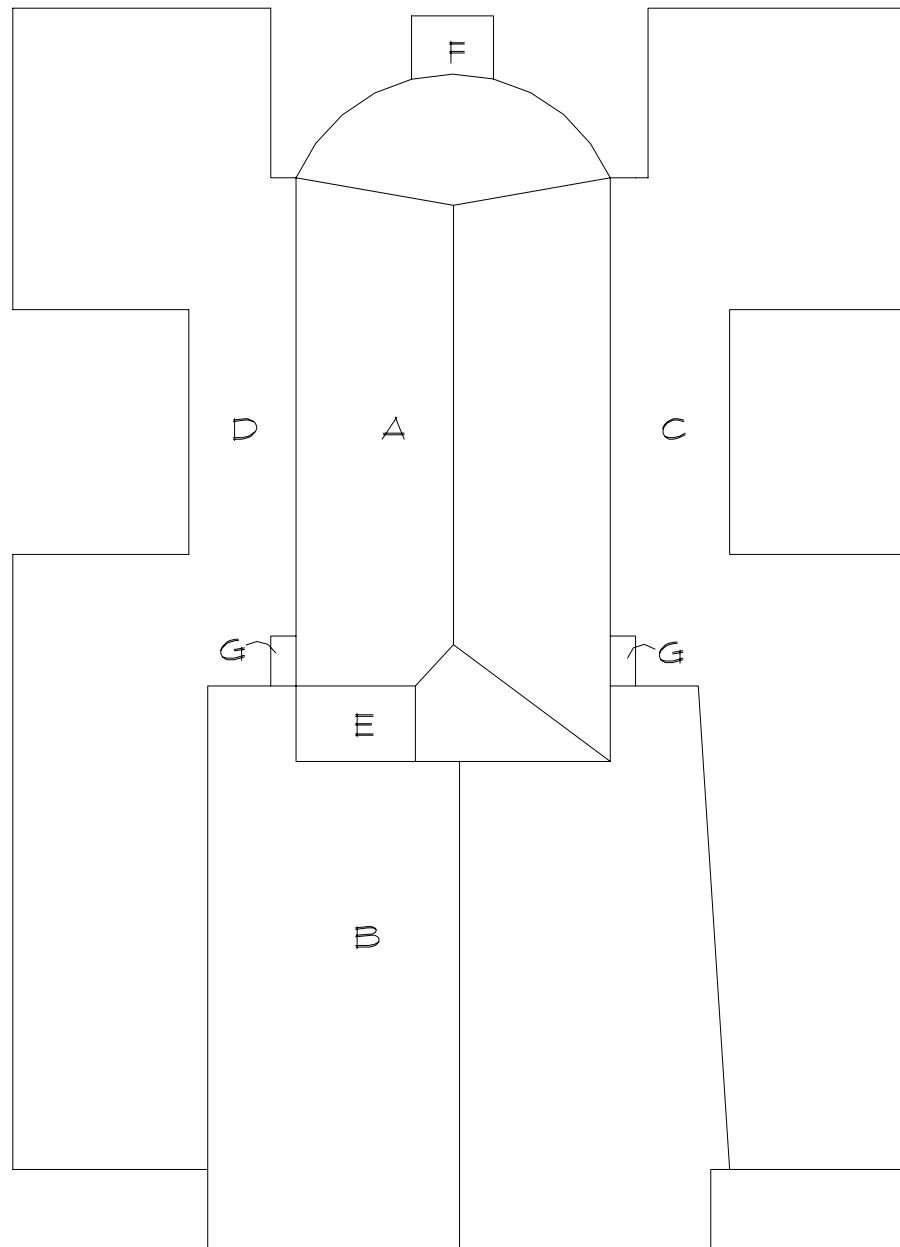
# Roof ID

**Building:** EB008 - Burton Hall - (178 Pillsbury Drive SE Minneapolis)

**Roof Access:** Room 301 Penthouse Door

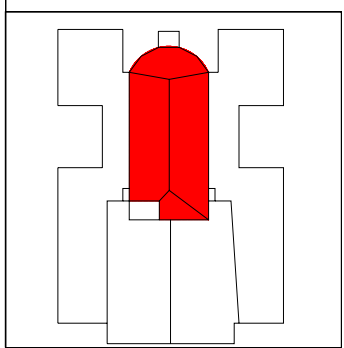
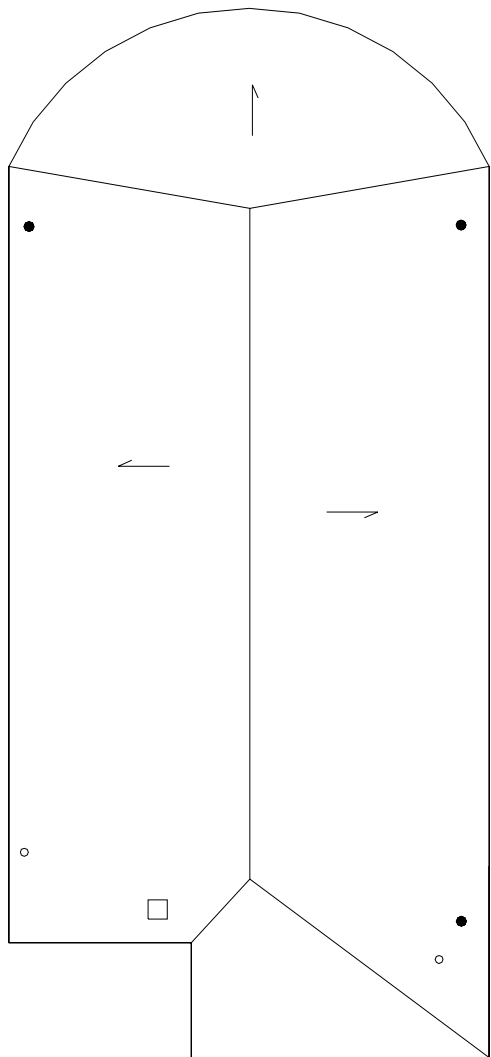
**Total Area:** 18,940 sf

<u>A</u>	<u>5,520</u>	<u>E</u>	<u>228</u>
<u>B</u>	<u>6,524</u>	<u>F</u>	<u>130</u>
<u>C</u>	<u>3,234</u>	<u>G</u>	<u>70</u>
<u>D</u>	<u>3,234</u>		

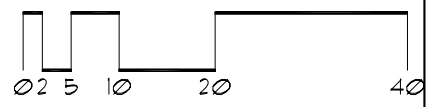




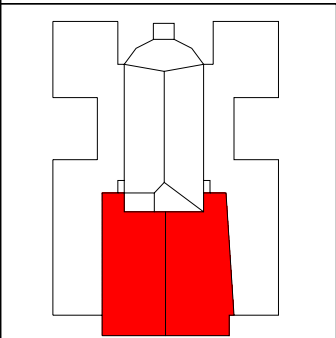
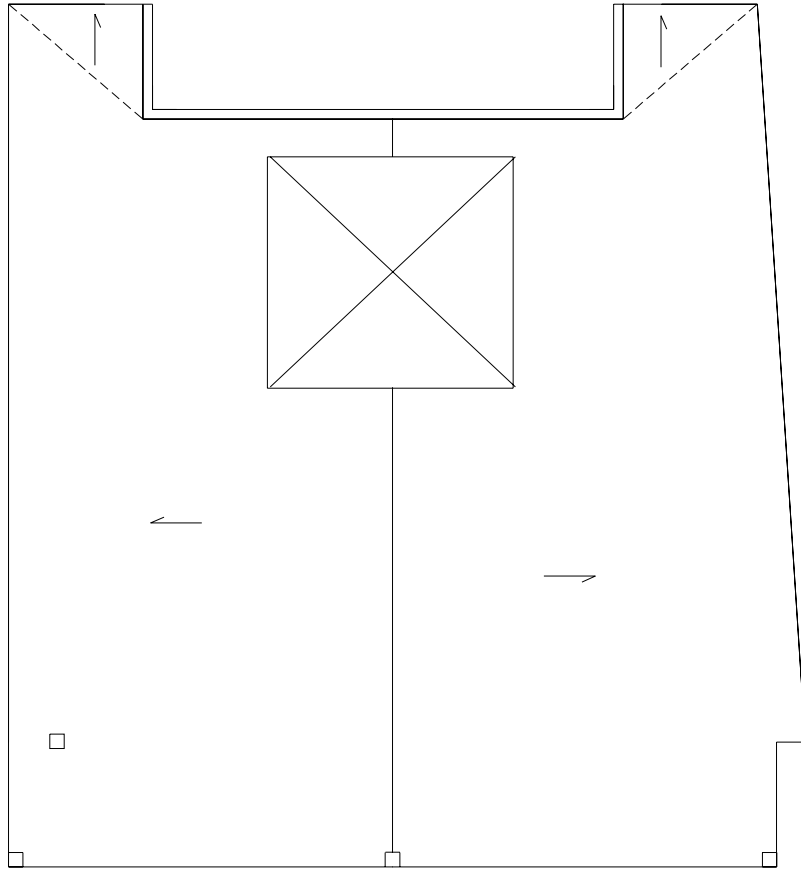
# Roof Corrective Action



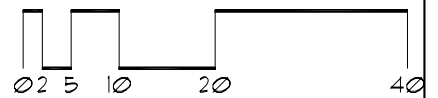
- SYMBOLS KEY**
- VENT STACK
  - ROOF DRAIN
  - ROOF CURB
  - SLOPE DIRECTION



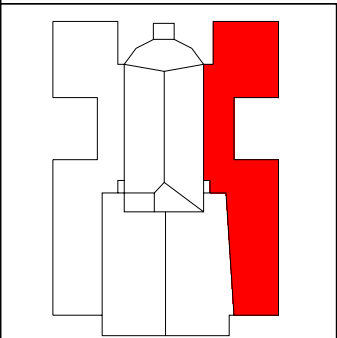
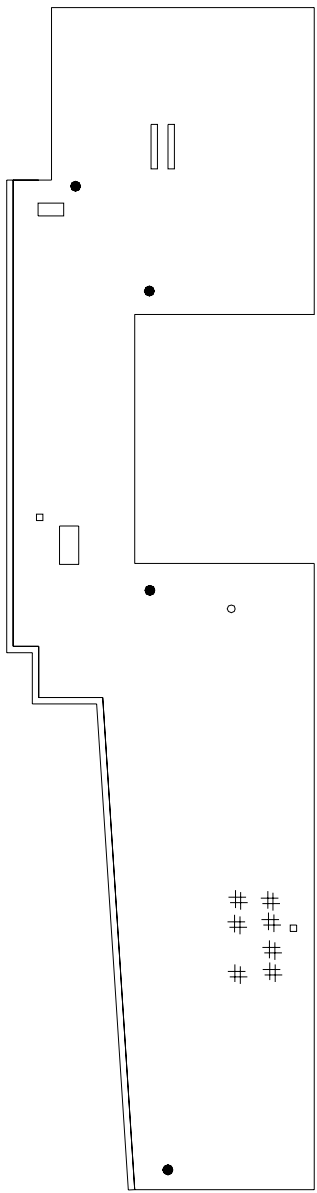
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ⊠ SKYLIGHT
  - SLOPE DIRECTION
  - Ⓢ DEFECT-REPAIR

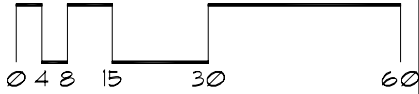


# Roof Corrective Action

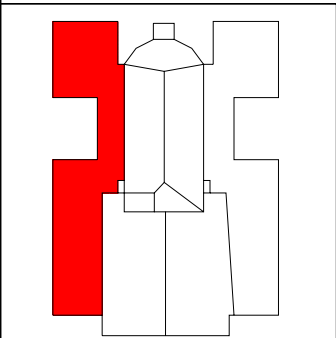
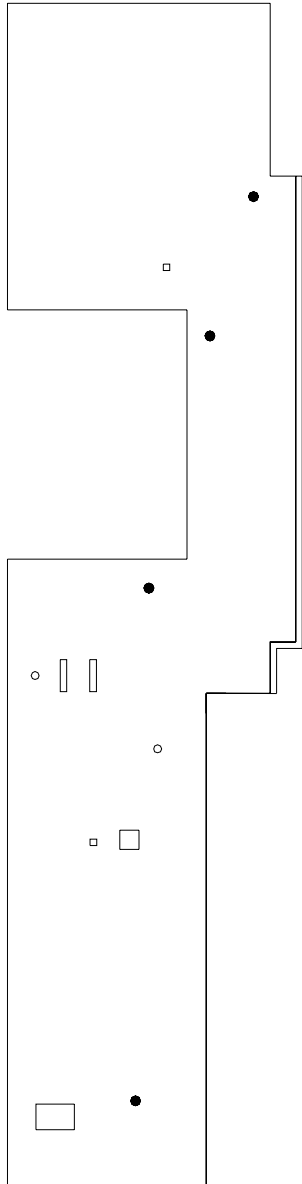


## SYMBOLS KEY

- VENT STACK
- ROOF DRAIN
- # PITCH PAN
- ROOF CURB
- ⓪ DEFECT-NO REPAIR
- Ⓢ DEFECT-REPAIR

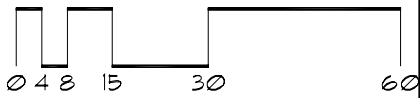


# Roof Corrective Action

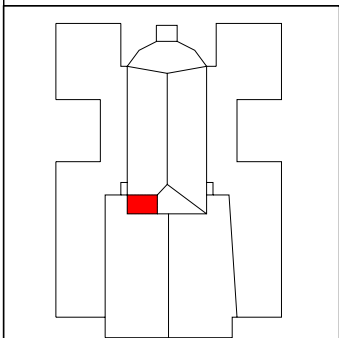
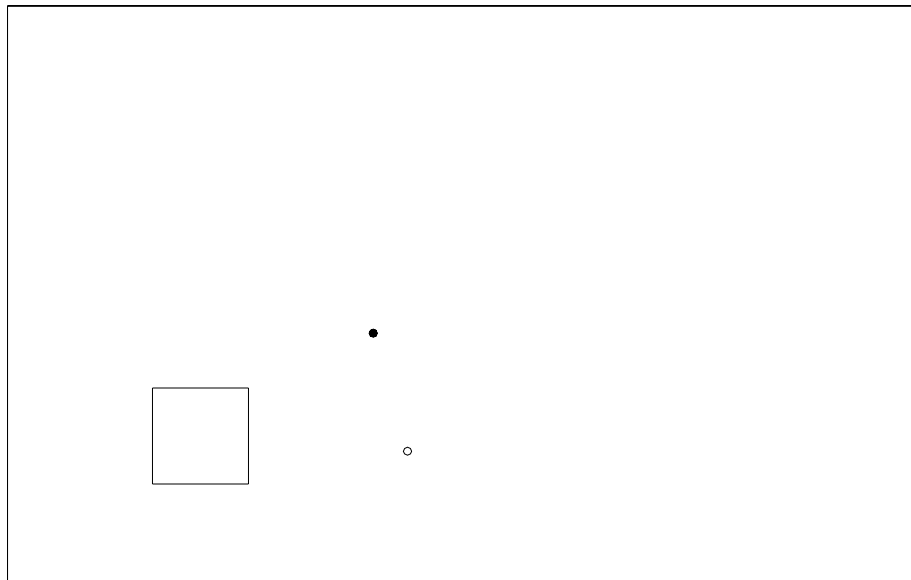


## SYMBOLS KEY

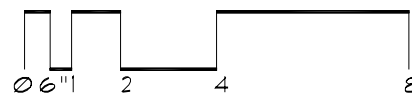
- VENT STACK
- ROOF DRAIN
- ROOF CURB
- Ⓢ DEFECT-NO REPAIR
- Ⓡ DEFECT-REPAIR



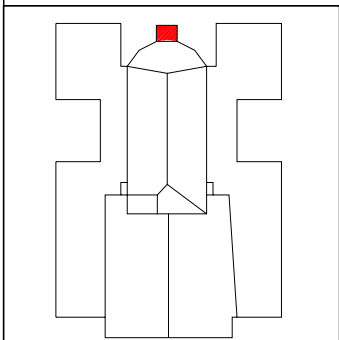
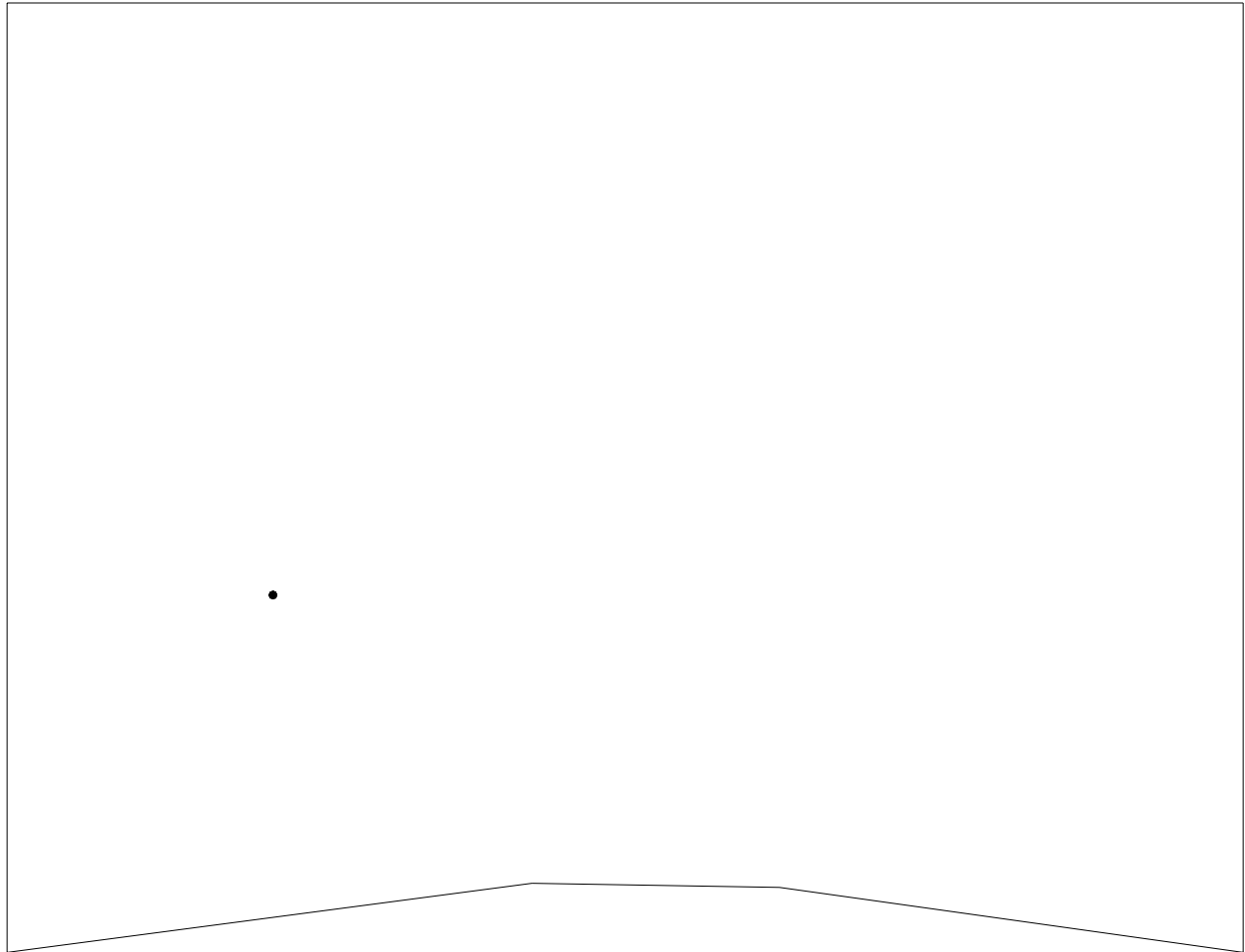
# Roof Corrective Action



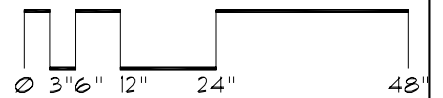
SYMBOLS KEY  
○ VENT STACK  
● ROOF DRAIN



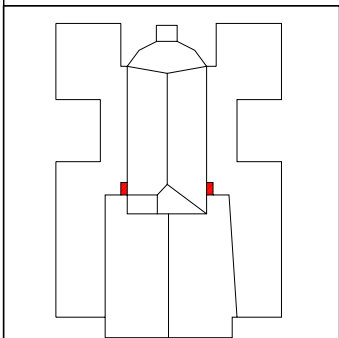
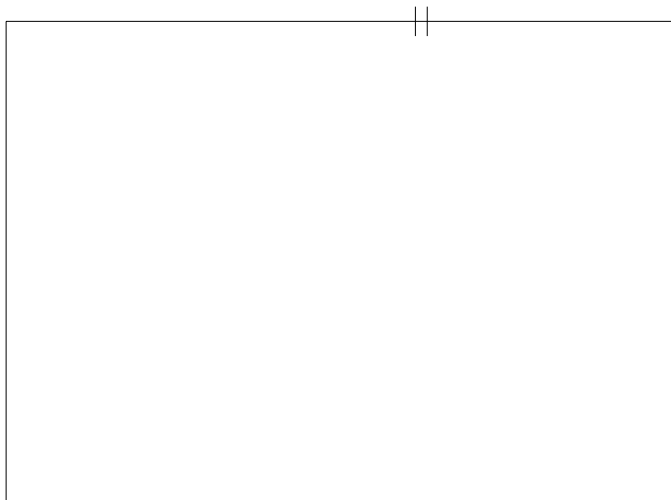
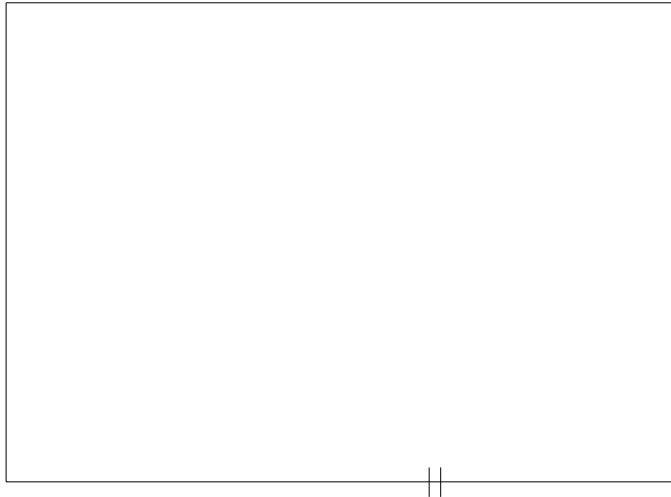
# Roof Corrective Action



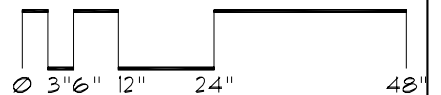
SYMBOLS KEY  
● ROOF DRAIN



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER



# Roof ID

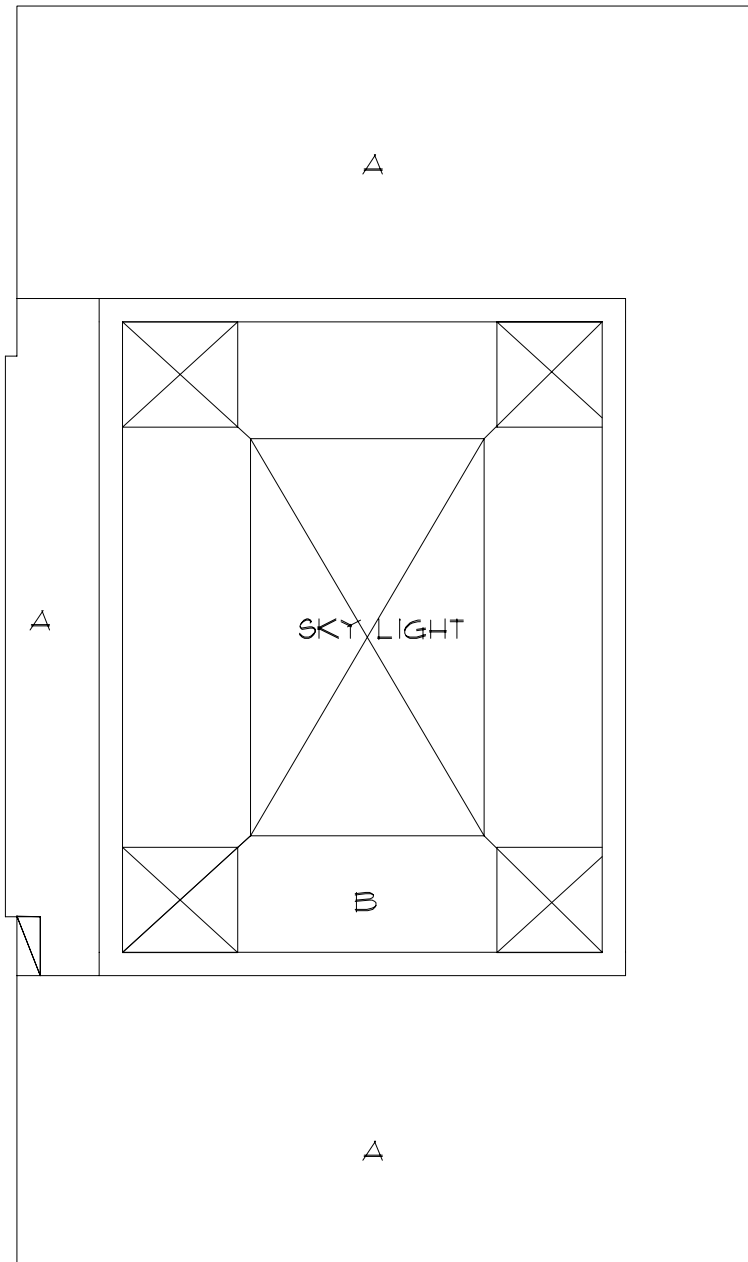
**Building:** EB017 - Jones Hall - (27 Pleasant Street SE Minneapolis)

**Roof Access:** Rm 200F access to flat roof, door in mezzanine, need E6M key

**Total Area:** 6,280 sf

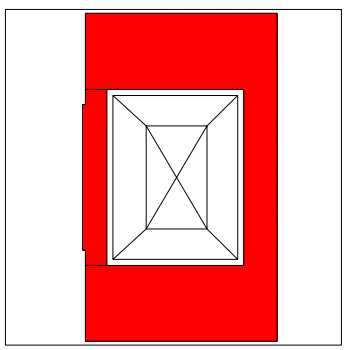
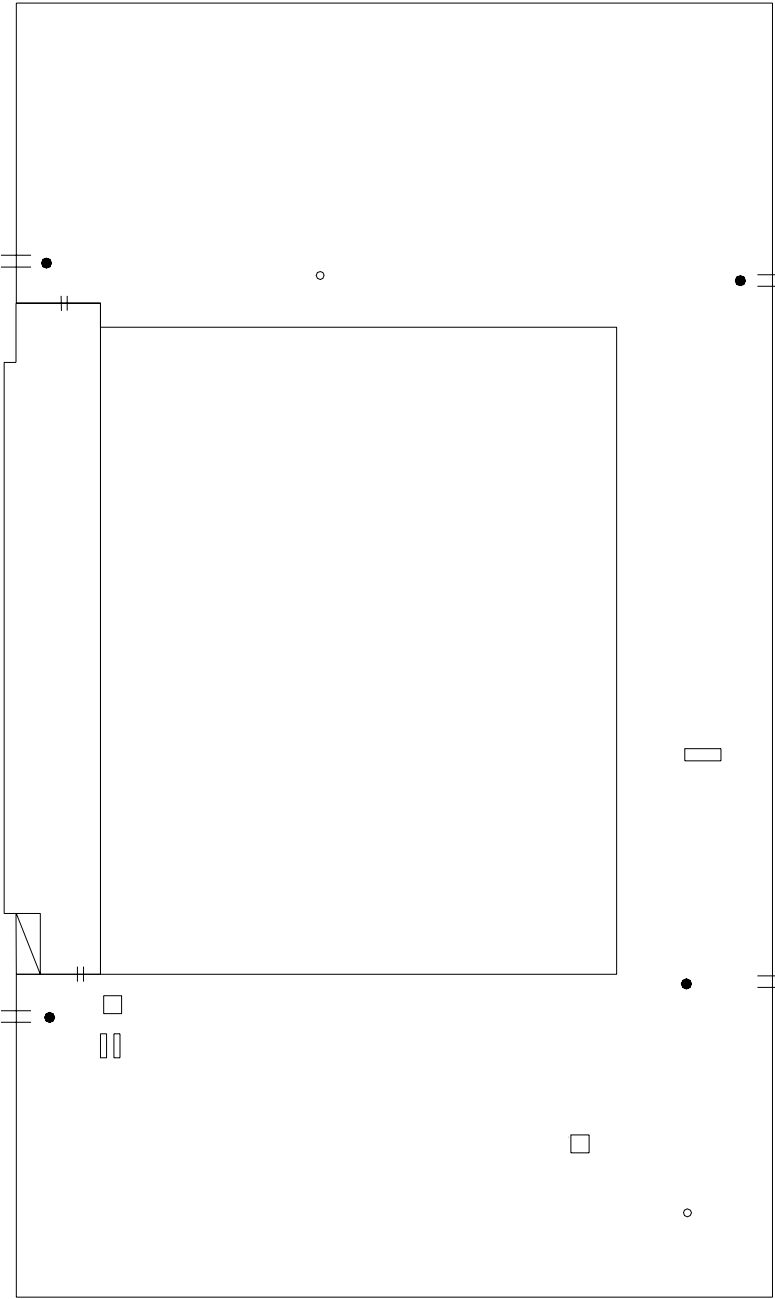
**A**      4,252

**B**      2,028

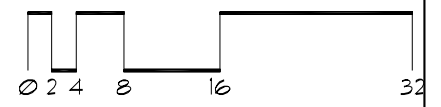




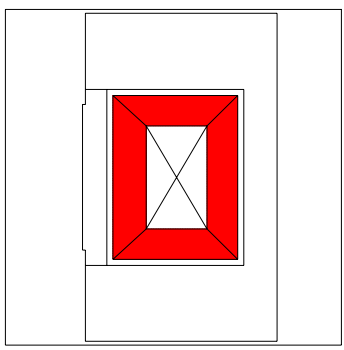
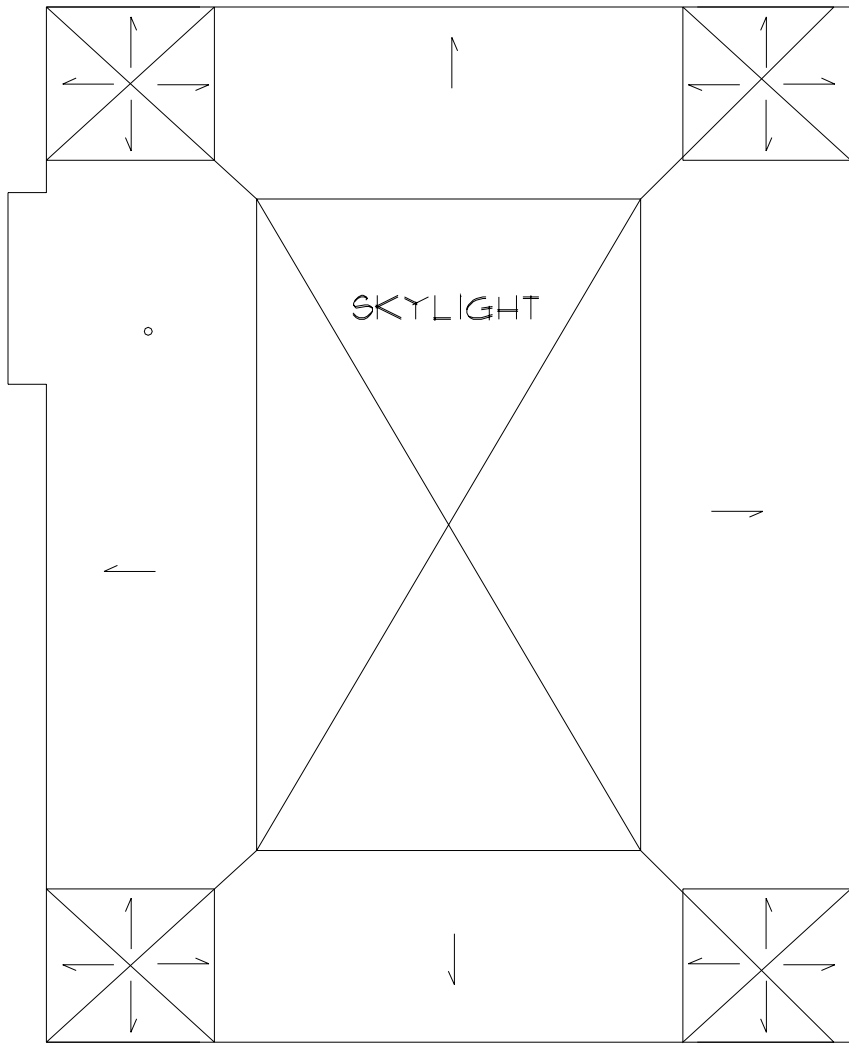
# Roof Corrective Action



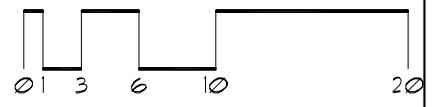
- SYMBOLS KEY**
- VENT STACK
  - ROOF CURB
  - ROOF DRAIN
  - ① DEFECT-REPAIR



# Roof Corrective Action



SYMBOLS KEY  
○ VENT STACK  
→ SLOPE DIRECTION



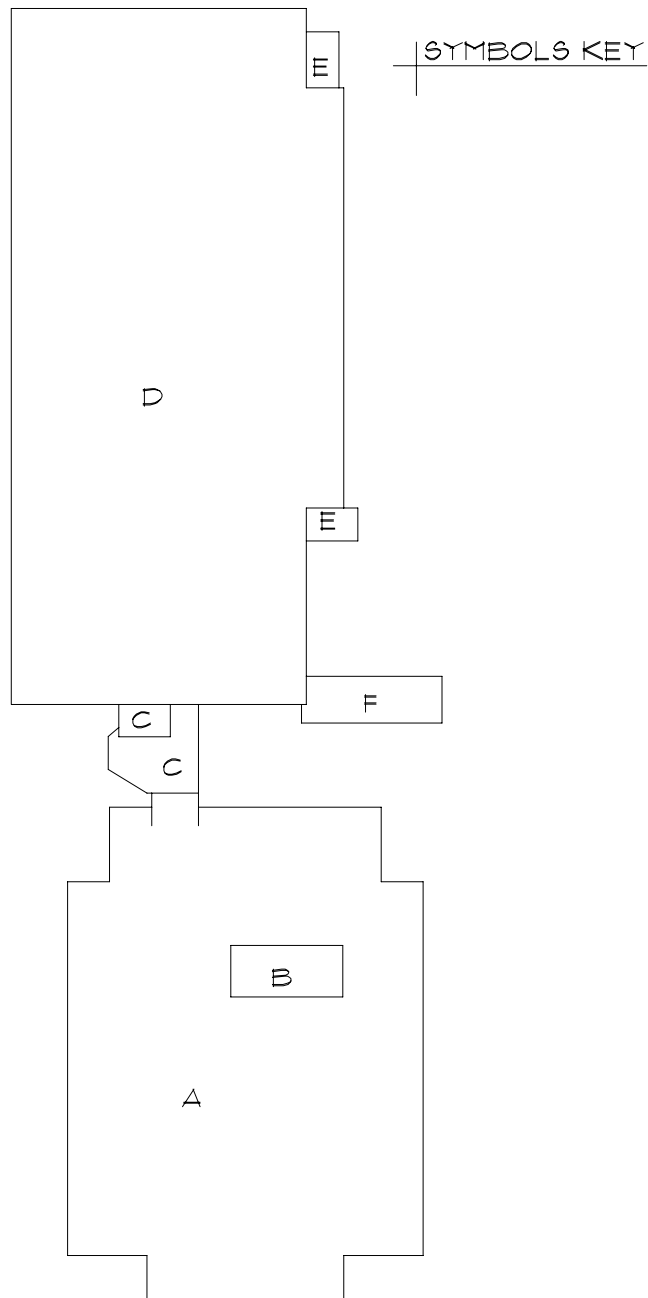
# Roof ID

**Building:** EB019 - Child Development - (51 E River Road Minneapolis)

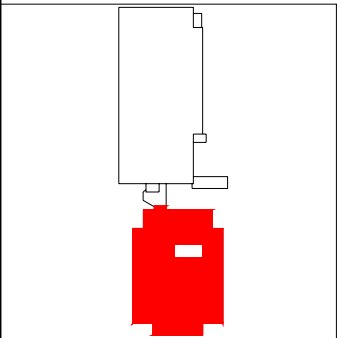
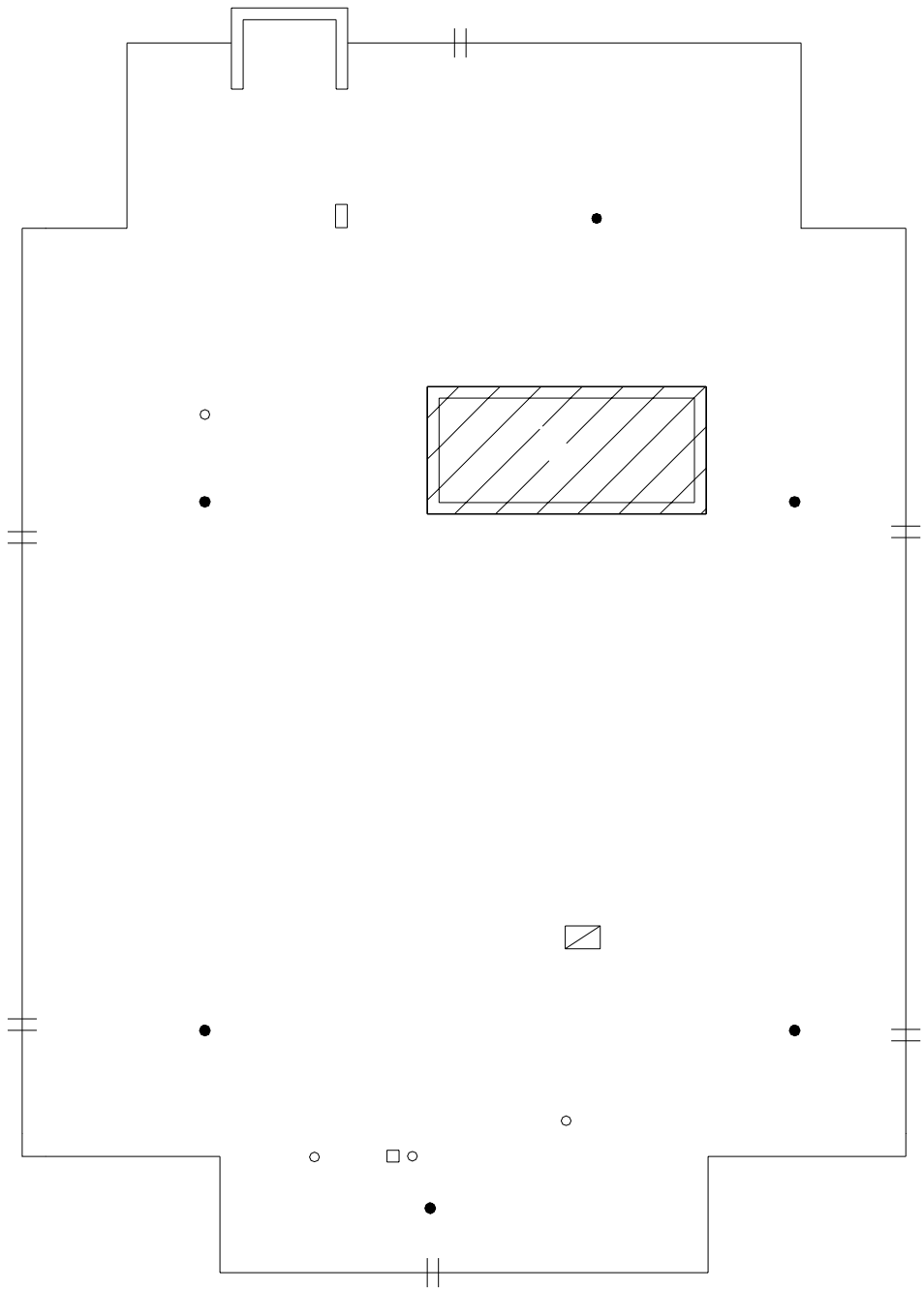
**Roof Access:** South=203; North=roof hatch

**Total Area:** 16,640 sf

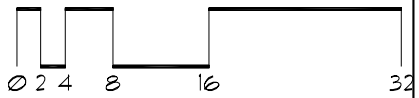
<u>A</u>	<u>7,015</u>	<u>E</u>	<u>161</u>
<u>B</u>	<u>264</u>	<u>F</u>	<u>294</u>
<u>C</u>	<u>374</u>		
<u>D</u>	<u>8,532</u>		



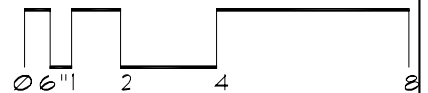
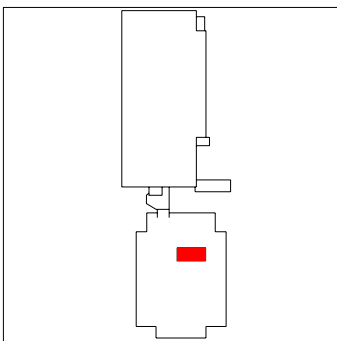
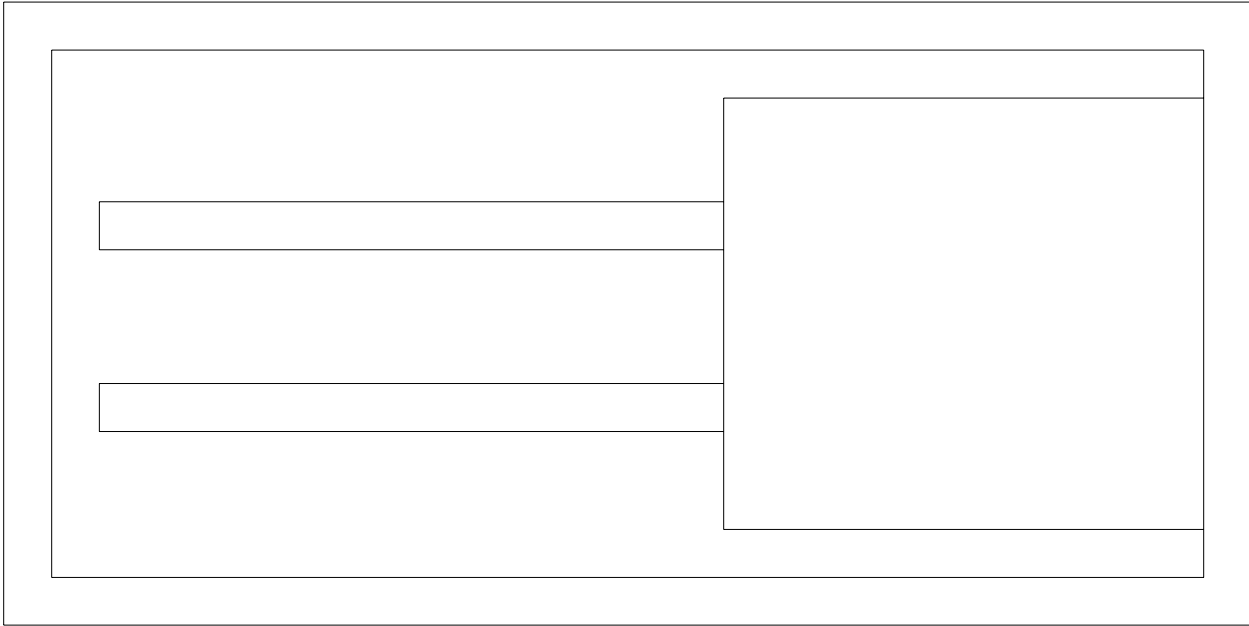
# Roof Corrective Action



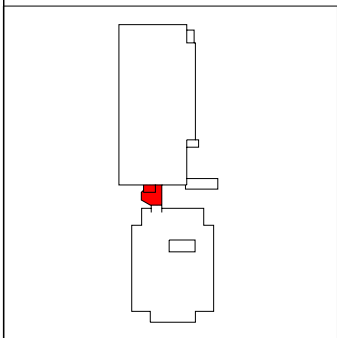
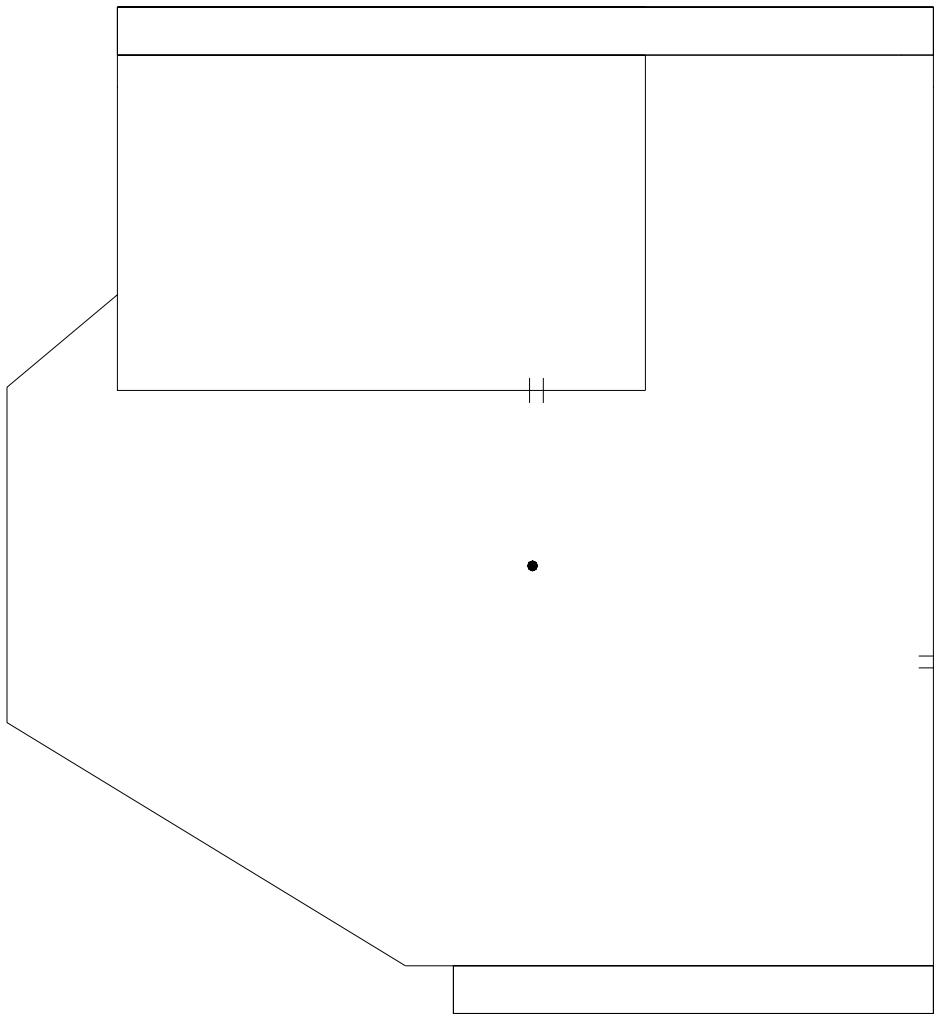
- SYMBOLS KEY**
- VENT STACK
  - ROOF DRAIN
  - ROOF CURB
  - ▣ ROOF HATCH
  - ≡ SCUPPER



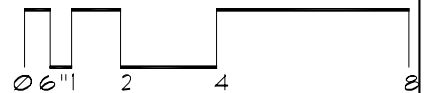
# Roof Corrective Action



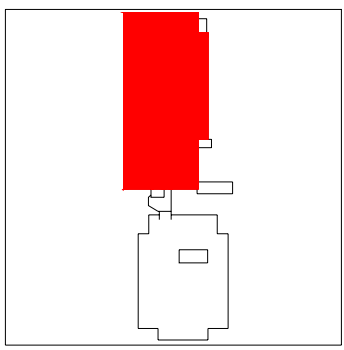
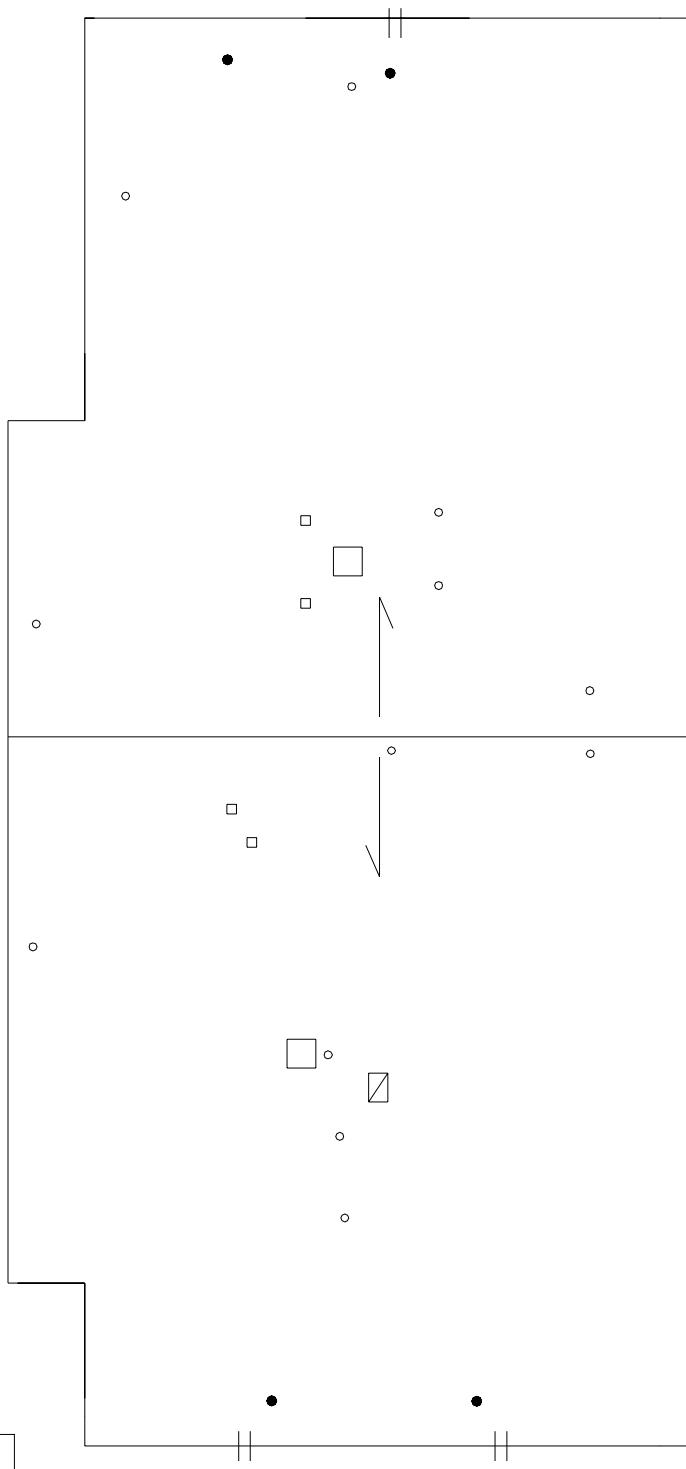
# Roof Corrective Action



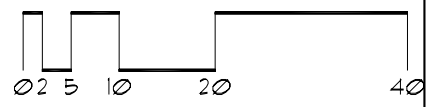
SYMBOLS KEY  
● ROOF DRAIN  
|| SCUPPER  
DEFECT-REPAIR



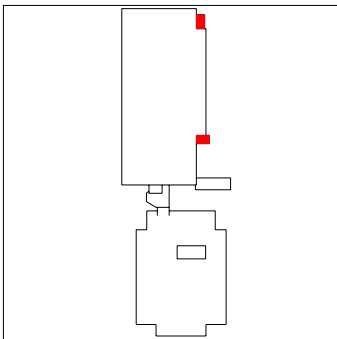
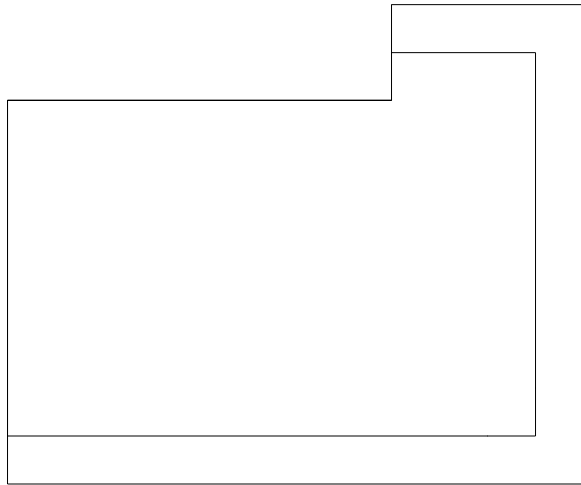
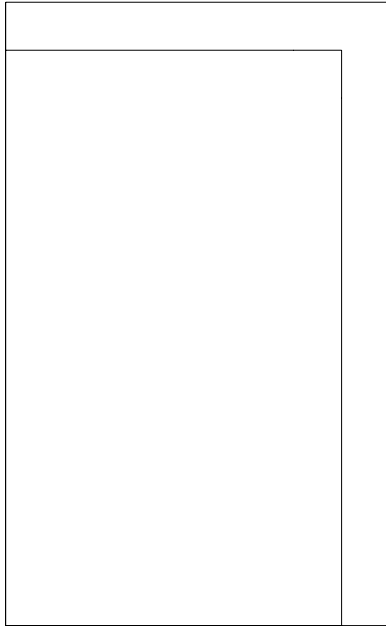
# Roof Corrective Action



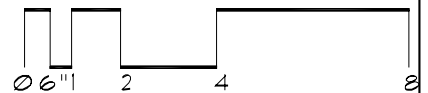
- SYMBOLS KEY**
- SLOPE DIRECTION
  - || SCUPPER
  - VENT STACK
  - ROOF DRAIN
  - ROOF CURB
  - ▣ ROOF HATCH
  - Ⓜ DEFECT-REPAIR
  - Ⓜ DEFECT-NO REPAIR



# Roof Corrective Action

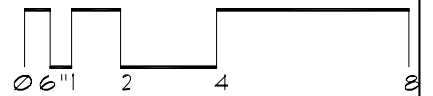
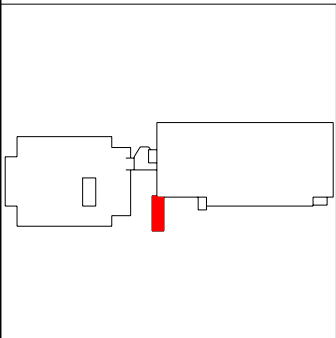


SYMBOLS KEY





# Roof Corrective Action



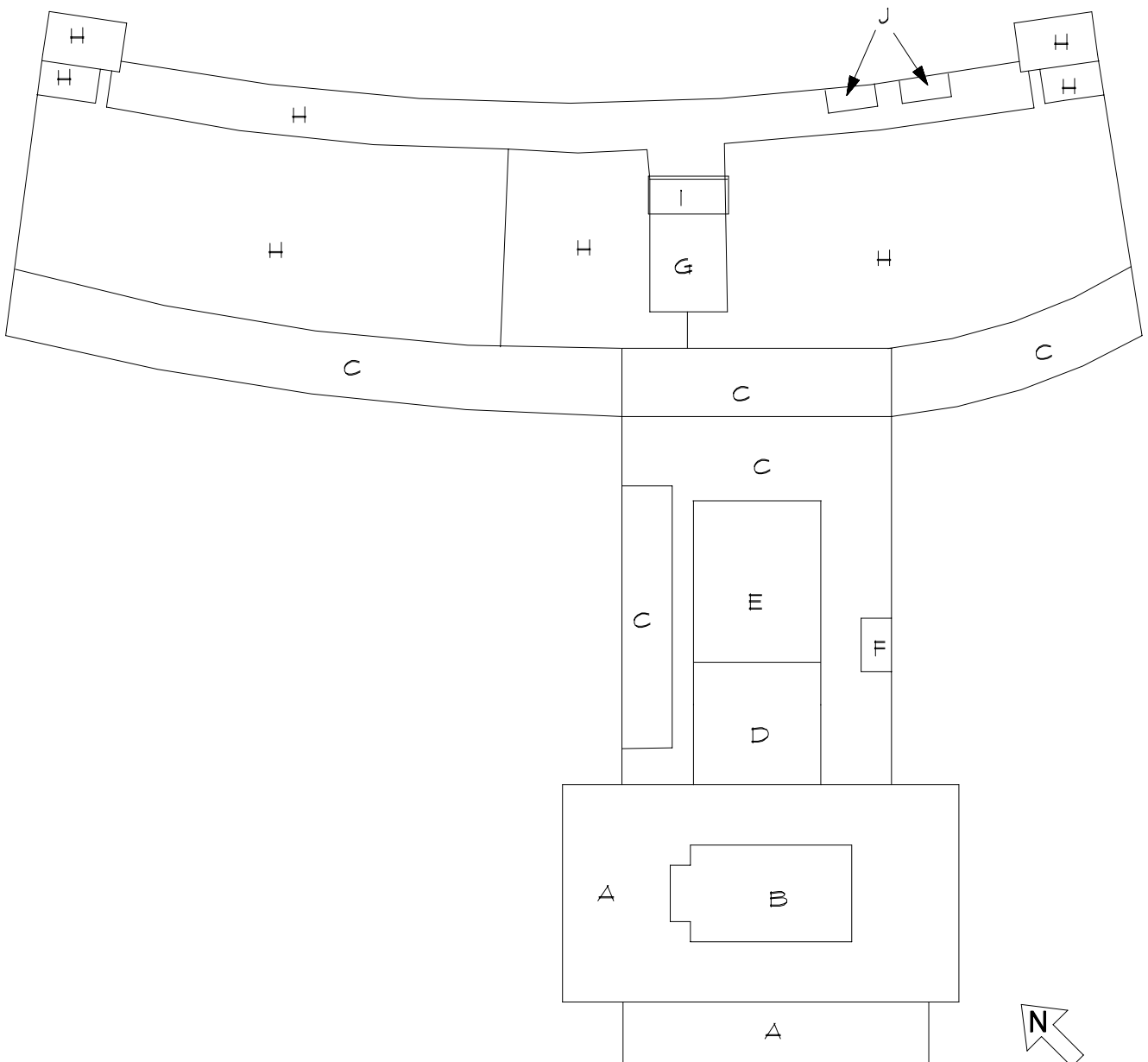
# Roof ID

**Building:** EB020 - Elliot Hall - (75 East River Road Minneapolis)

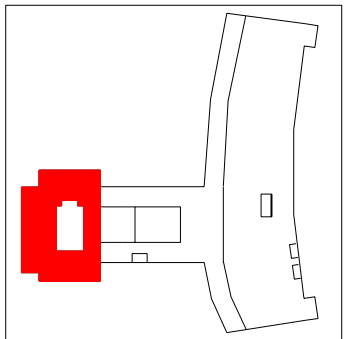
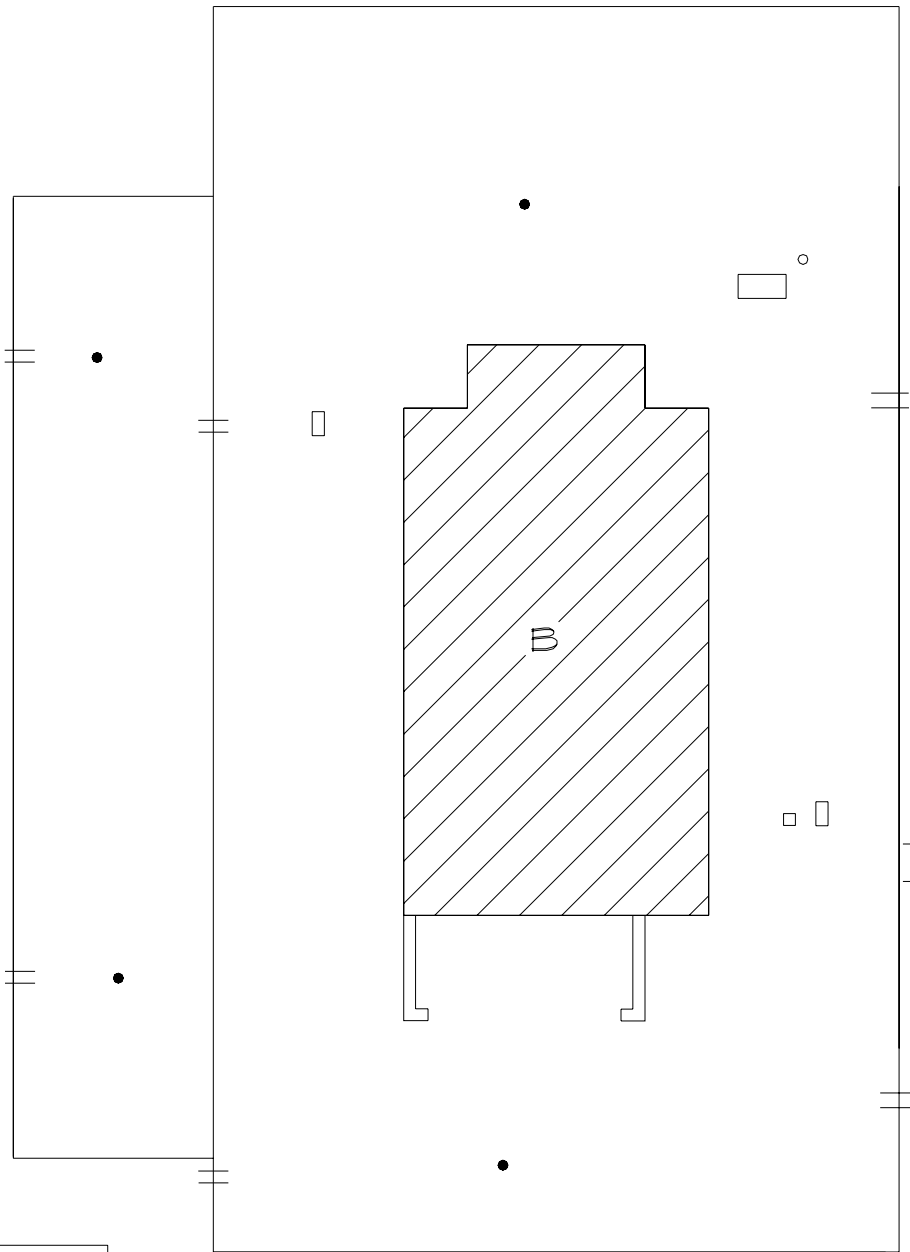
**Roof Access:** A-C through rest room N594. H=elevator to 6th floor to NE stairwell

**Total Area:** 37,588 sf

<b>A</b>	<b>5,838</b>	<b>E</b>	<b>1,386</b>	<b>I</b>	<b>210</b>
<b>B</b>	<b>1,050</b>	<b>F</b>	<b>112</b>	<b>J</b>	<b>156</b>
<b>C</b>	<b>9,302</b>	<b>G</b>	<b>680</b>		
<b>D</b>	<b>1,024</b>	<b>H</b>	<b>17,830</b>		



# Roof Corrective Action

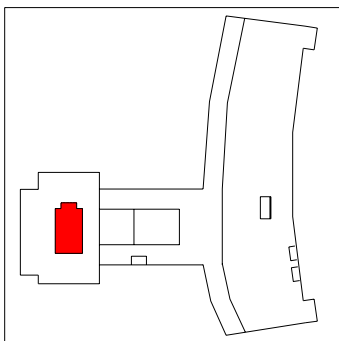
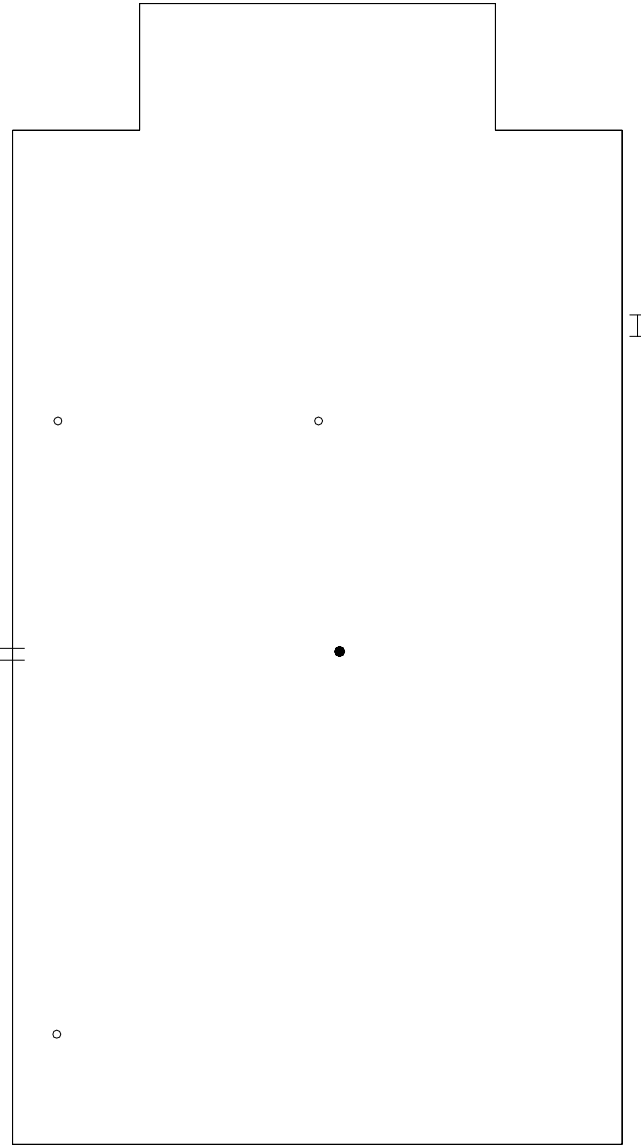


SYMBOLS KEY

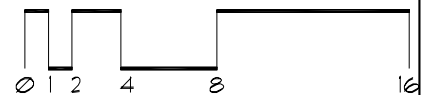
	SCUPPER
●	ROOF DRAIN
○	VENT STACK
□	ROOF CURB



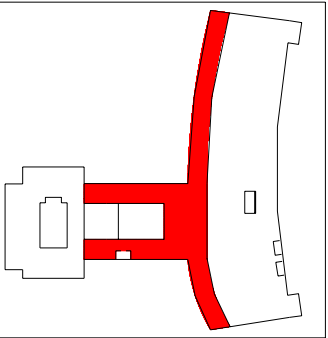
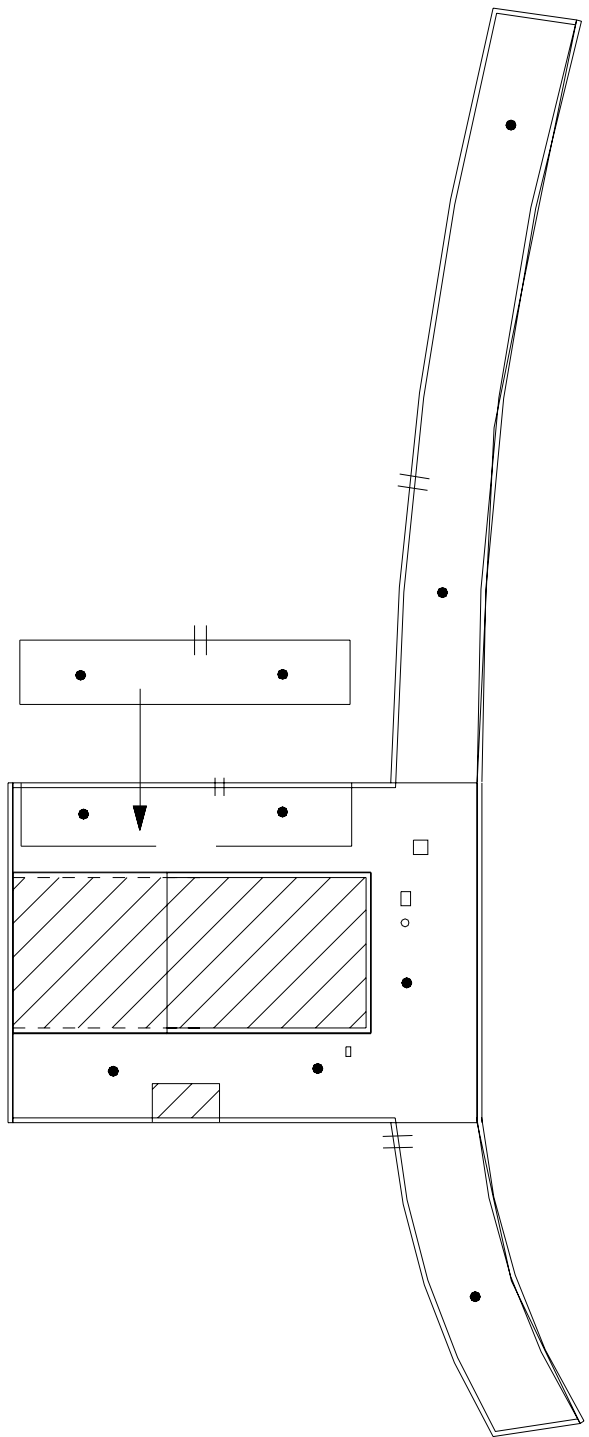
# Roof Corrective Action



SYMBOLS KEY	
†	SCUPPER
○	VENT STACK
●	ROOF DRAIN
I	LADDER

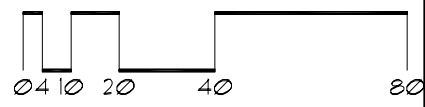


# Roof Corrective Action

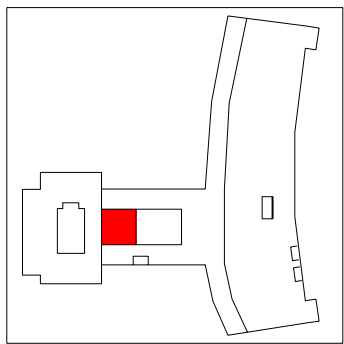
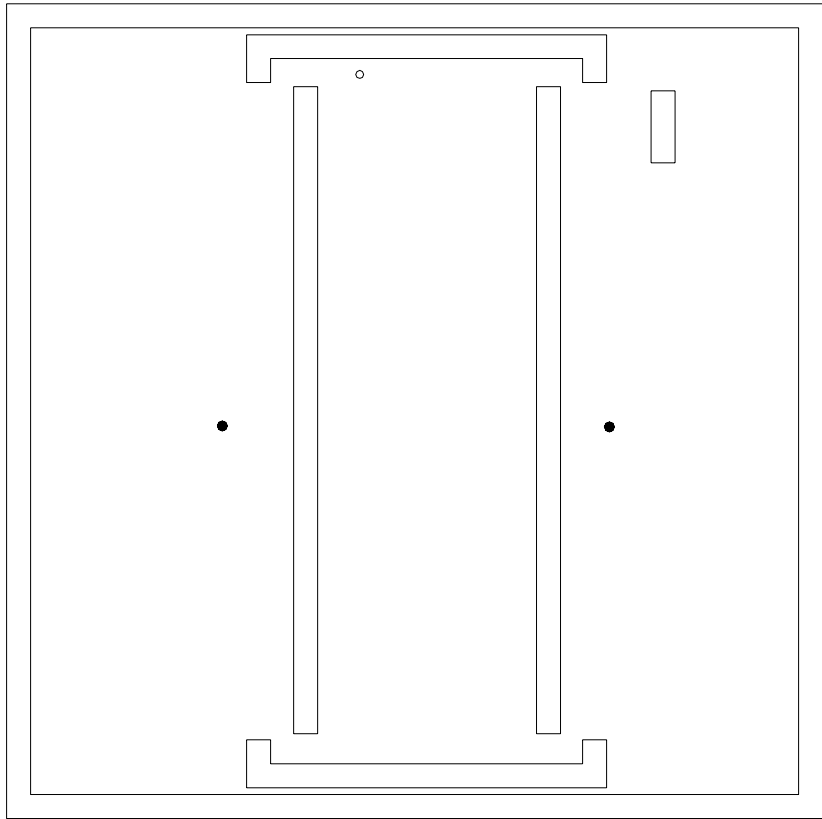


## SYMBOLS KEY

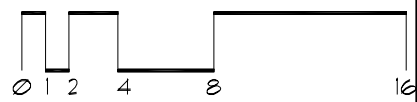
- || SCUPPER
- ROOF DRAIN
- ROOF CURB



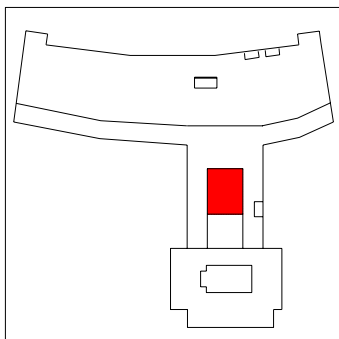
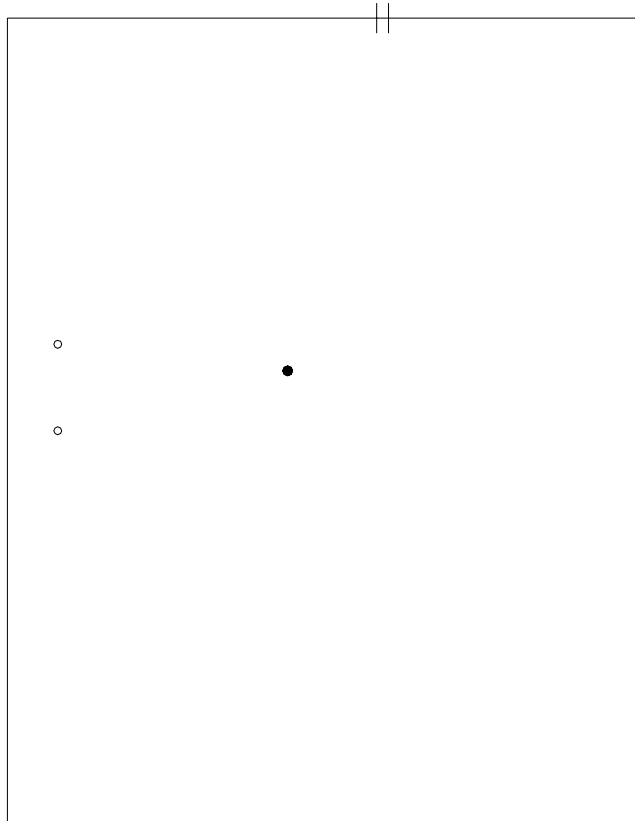
# Roof Corrective Action



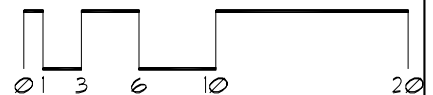
- SYMBOLS KEY**
- ROOF DRAIN
  - ROOF CURB
  - H LADDER
  - VENT STACK
  - Ⓢ DEFECT-REPAIR



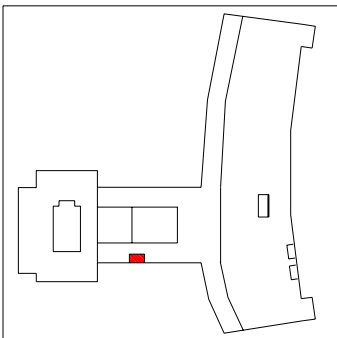
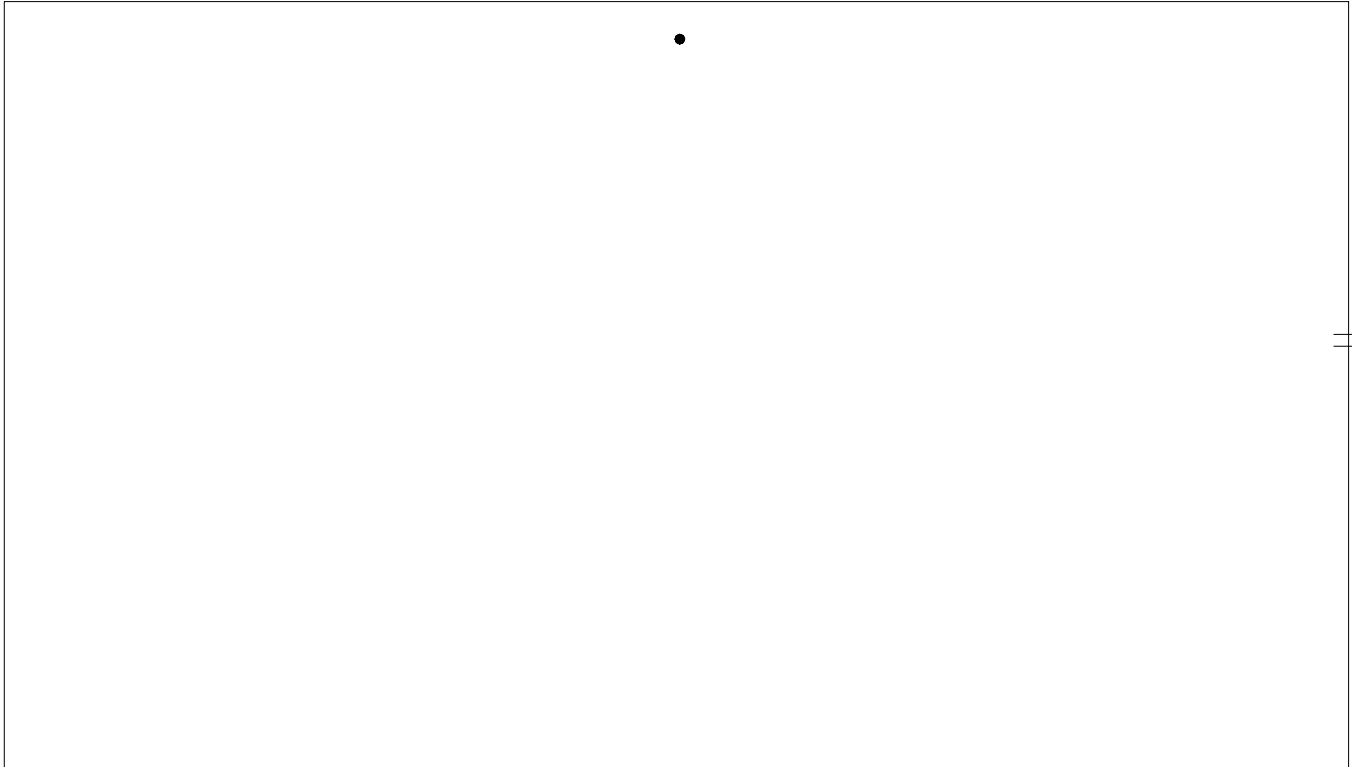
# Roof Corrective Action



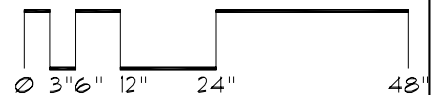
**SYMBOLS KEY**  
|| SCUPPER  
○ VENT STACK  
● ROOF DRAIN



# Roof Corrective Action

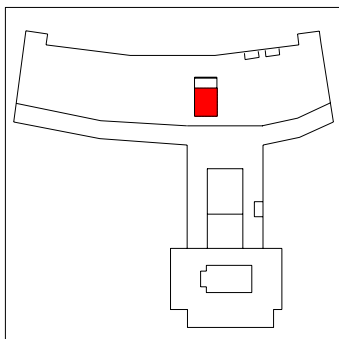
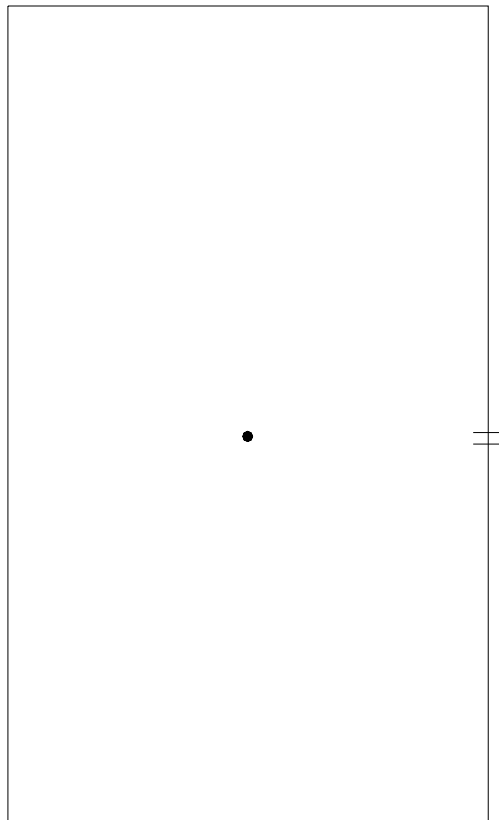


SYMBOLS KEY  
† SCUPPER  
● ROOF DRAIN

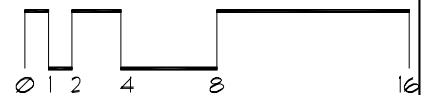




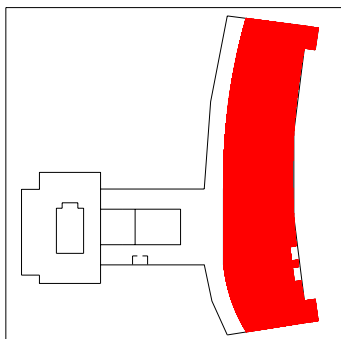
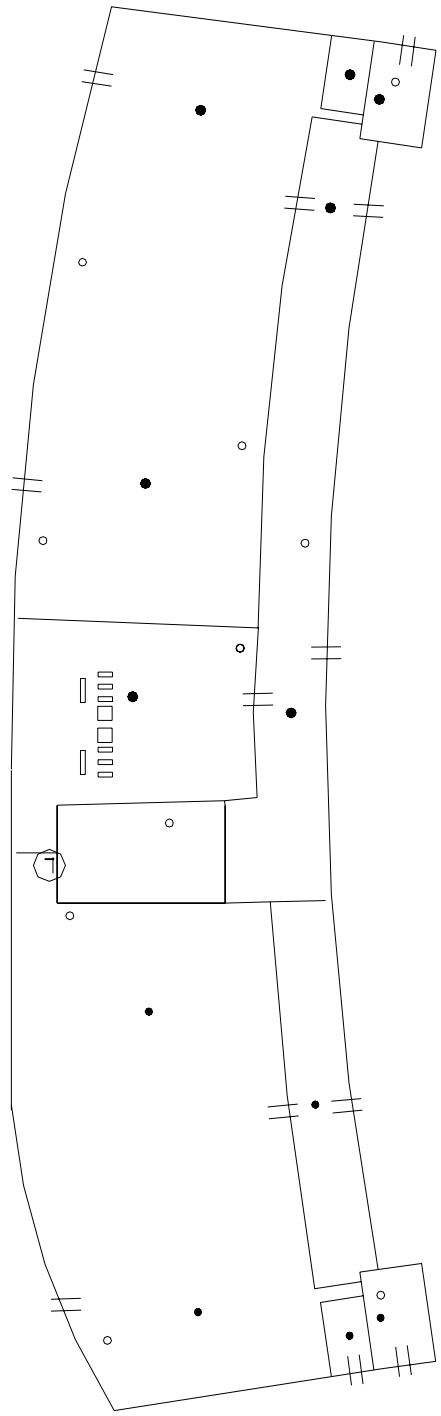
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER  
• ROOF DRAIN  
DEFECT-REPAIR

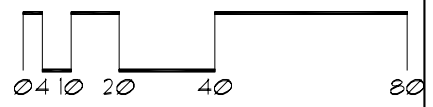


# Roof Corrective Action

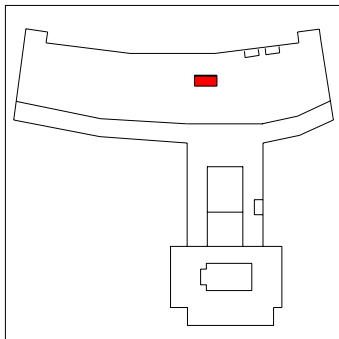
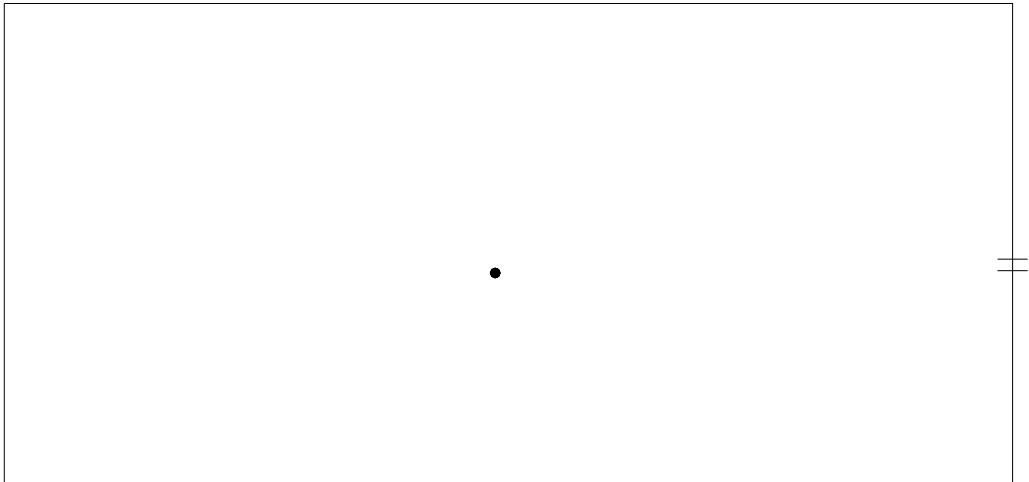


## SYMBOLS KEY

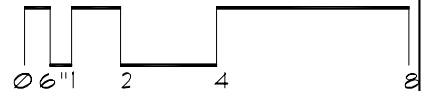
- || SCUPPER
- VENT STACK
- ROOF DRAIN
- ROOF CURB



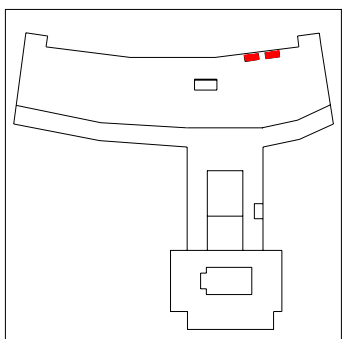
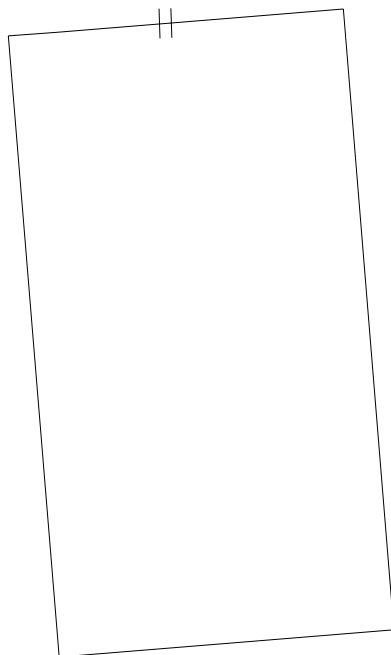
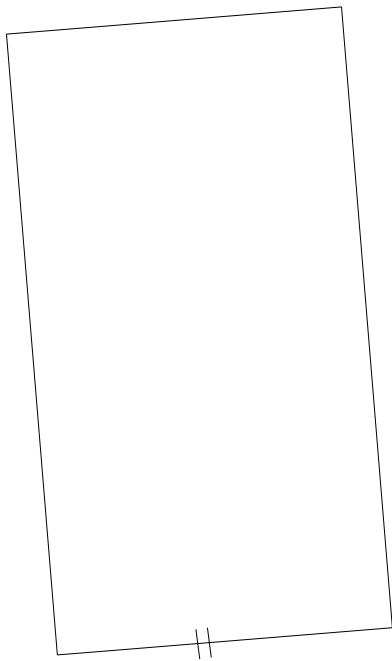
# Roof Corrective Action



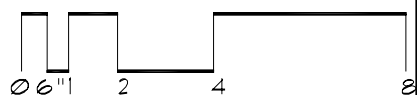
SYMBOLS KEY  
• ROOF DRAIN



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER

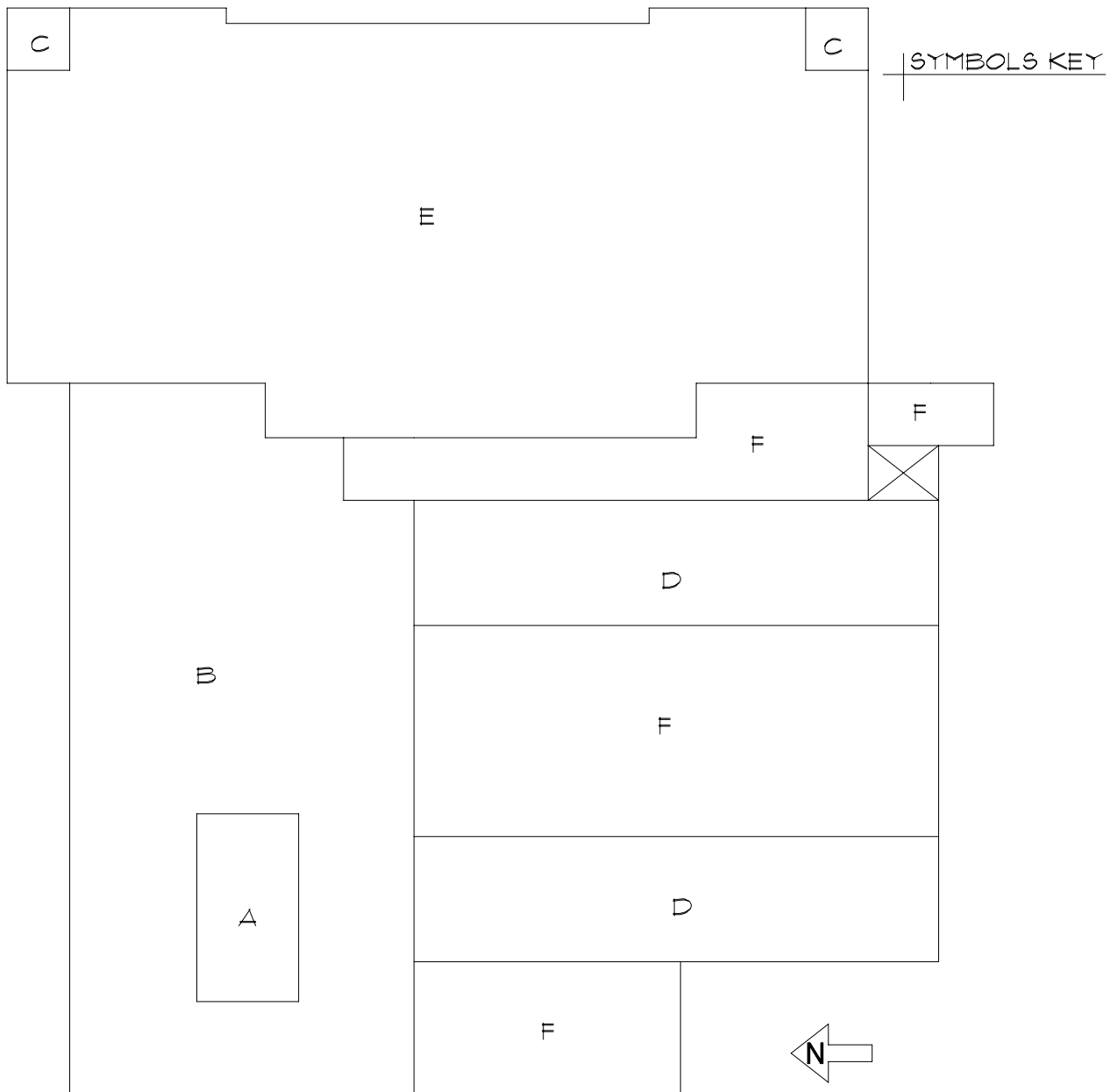


# Roof ID

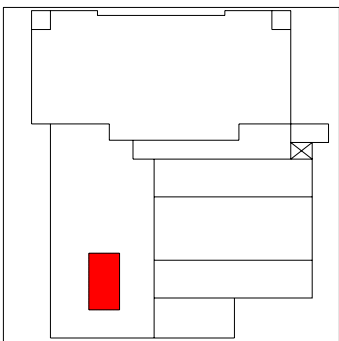
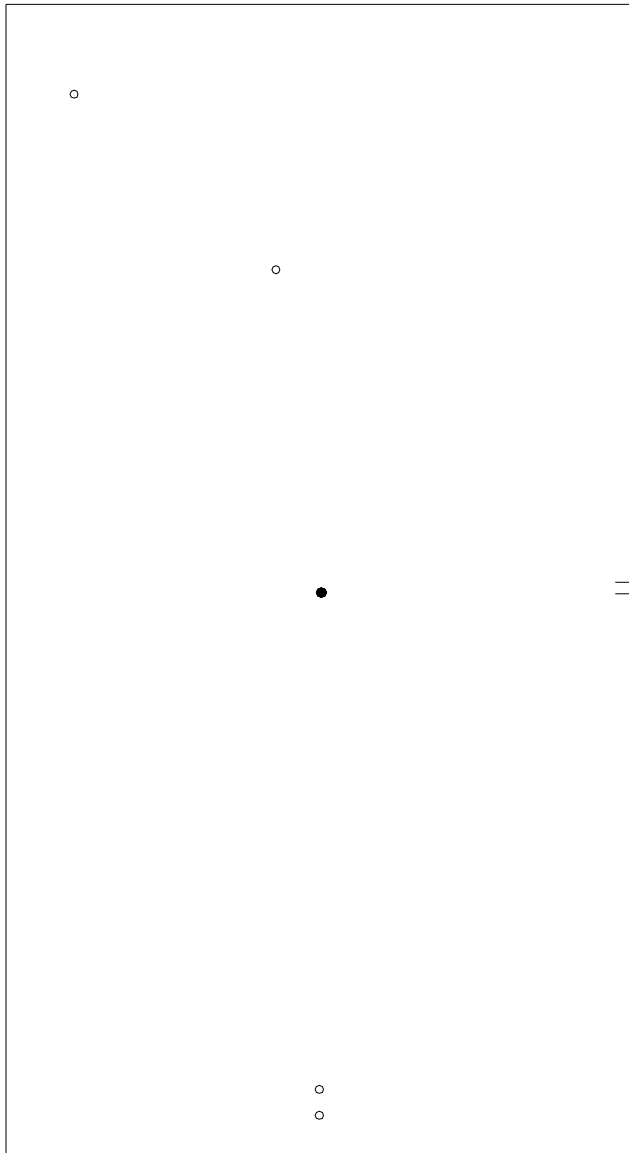
**Building:** EB021 - Shevlin Hall - (164 Pillsbury Drive SE Minneapolis)

**Total Area:** 14,228 sf

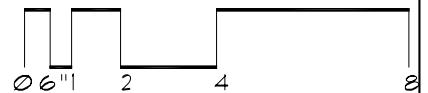
<u>A</u>	<u>312</u>	<u>E</u>	<u>4,600</u>
<u>B</u>	<u>3,862</u>	<u>F</u>	<u>3,182</u>
<u>C</u>	<u>128</u>		
<u>D</u>	<u>2,144</u>		



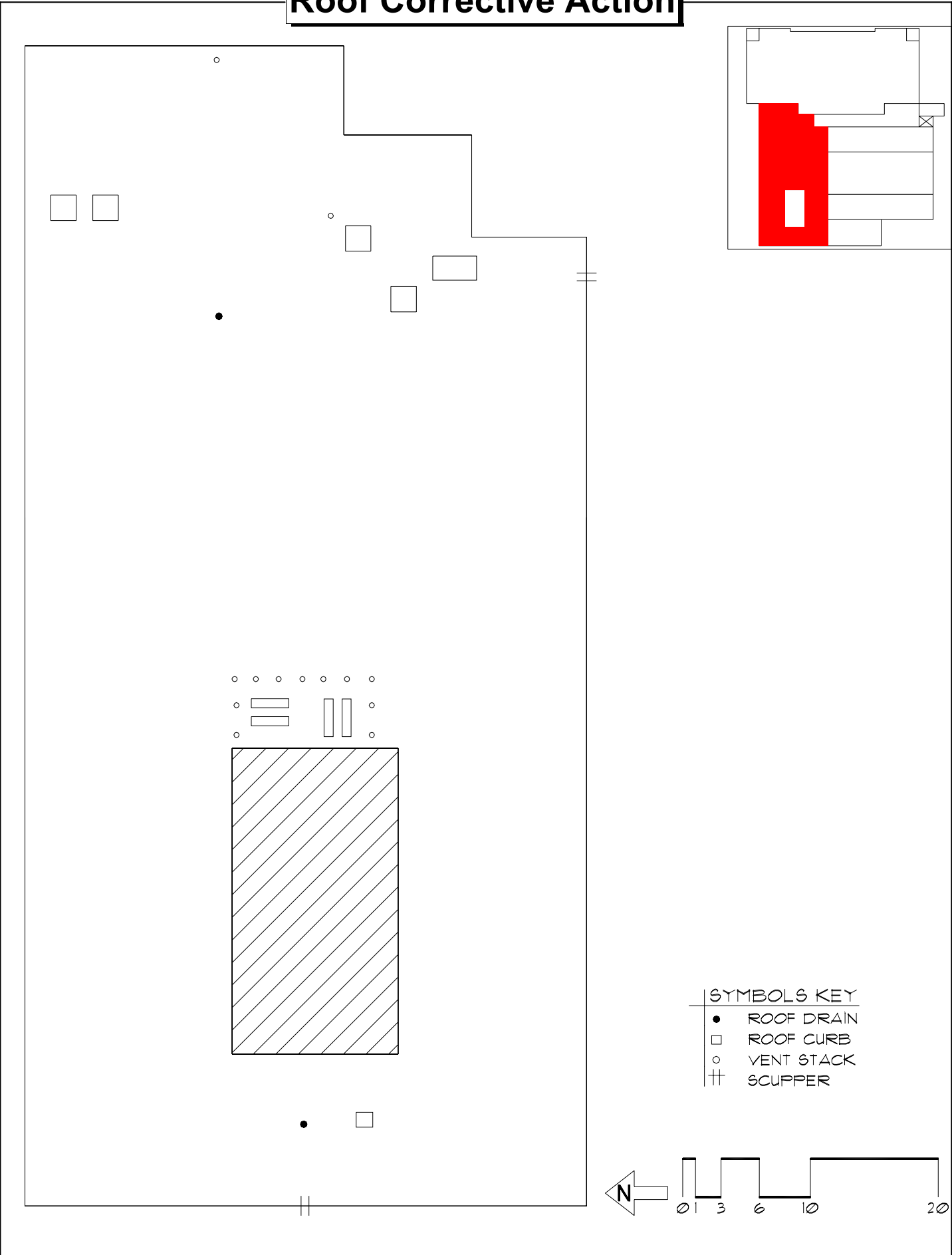
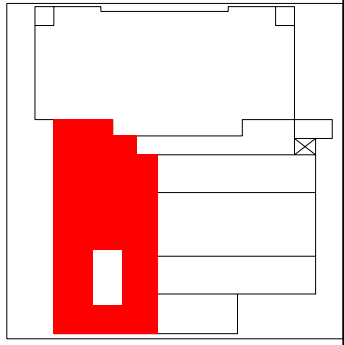
# Roof Corrective Action



**SYMBOLS KEY**  
○ VENT STACK  
● ROOF DRAIN  
≡ SCUPPER

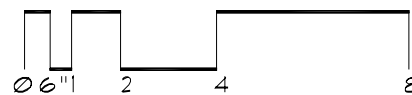
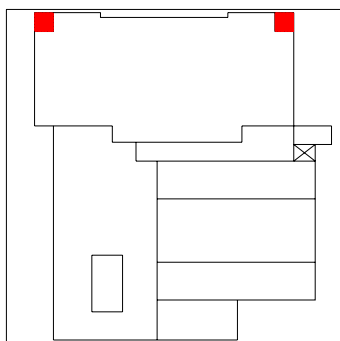
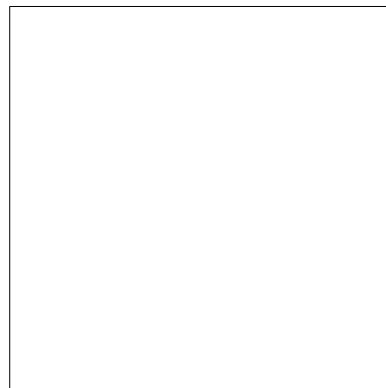
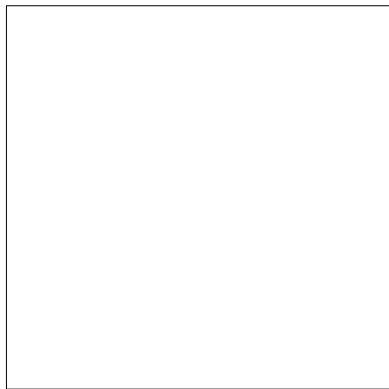


# Roof Corrective Action



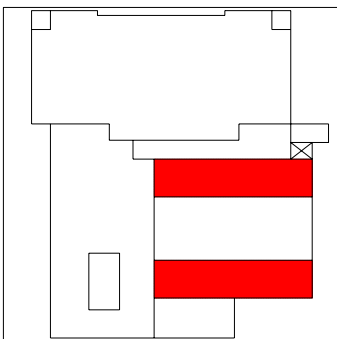
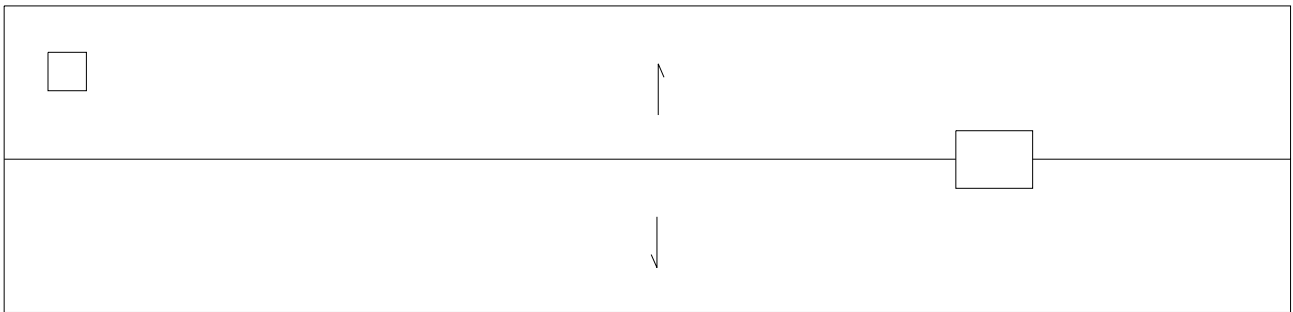
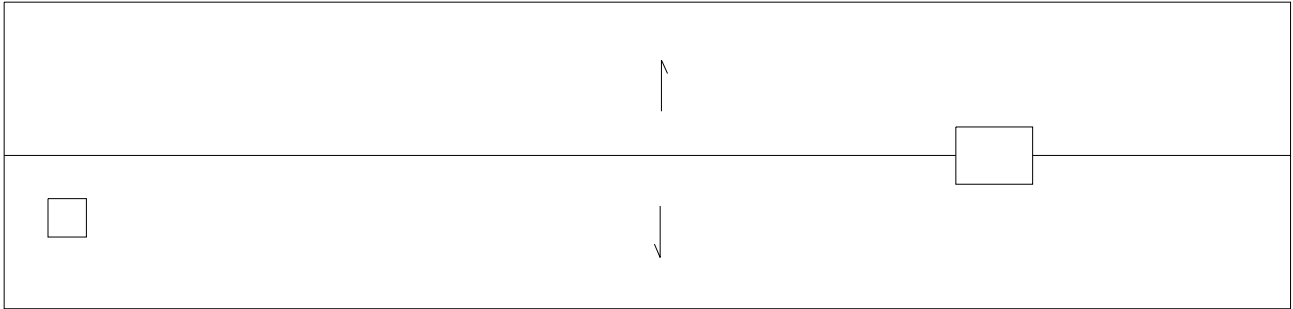
SYMBOLS KEY	
●	ROOF DRAIN
□	ROOF CURB
○	VENT STACK
⊥	SCUPPER

# Roof Corrective Action

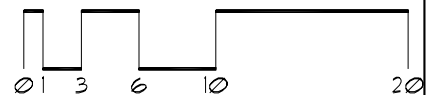




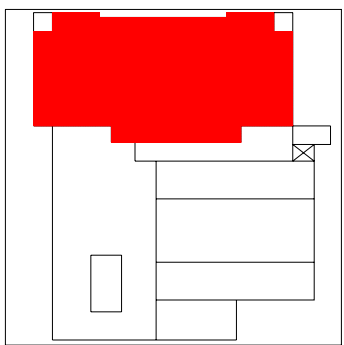
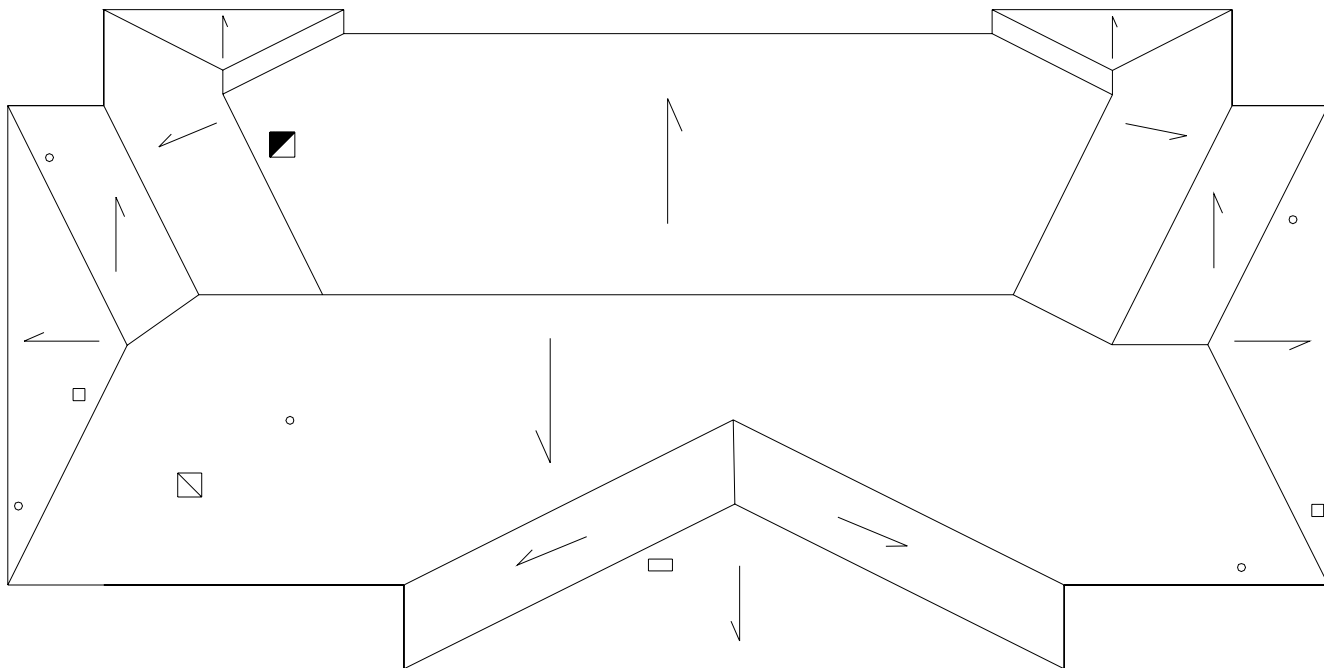
# Roof Corrective Action



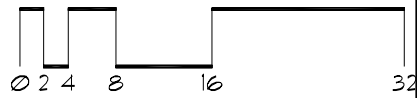
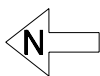
SYMBOLS KEY  
➤ SLOPE DIRECTION  
□ ROOF CURB



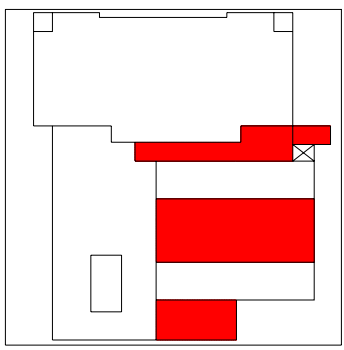
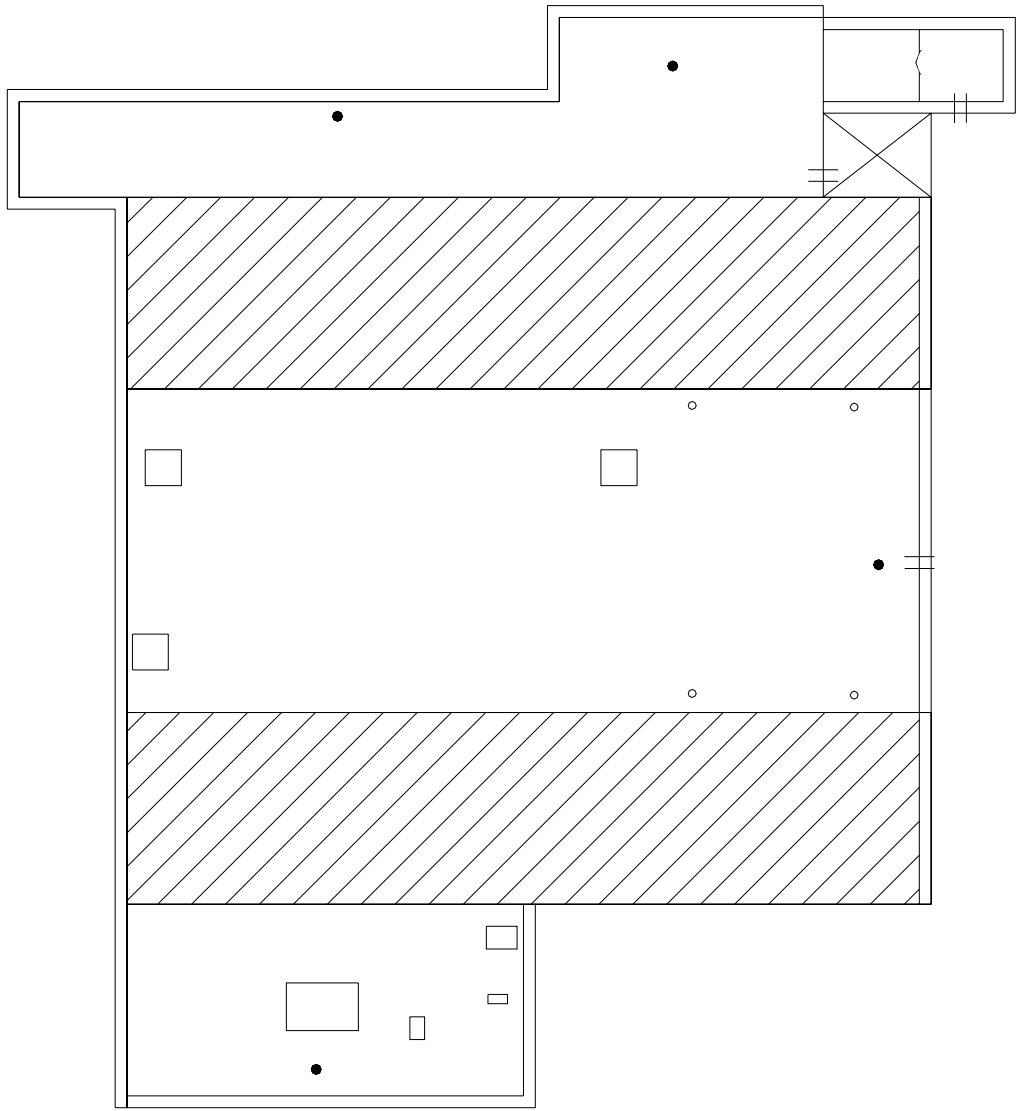
# Roof Corrective Action



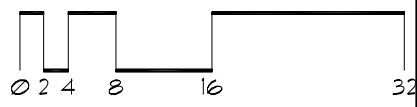
- SYMBOLS KEY**
- SLOPE DIRECTION
  - VENT STACK
  - ROOF CURB
  - ⊗ SKYLIGHT
  - CHIMNEY



# Roof Corrective Action



- SYMBOLS KEY**
- ⦶ SCUPPER
  - ROOF DRAIN
  - ROOF CURB
  - VENT STACK
  - Ⓢ DEFECT-REPAIR



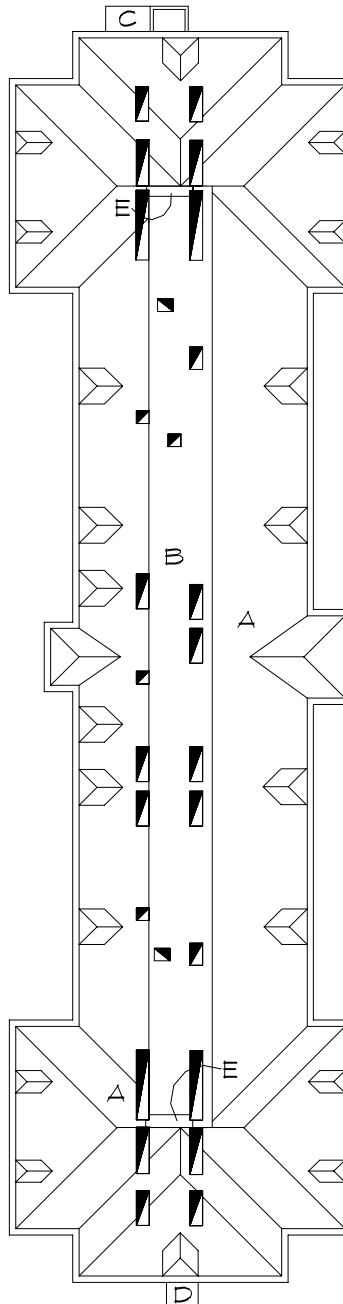
# Roof ID

**Building:** EB022 - Folwell Hall - (9 Pleasant Street SE Minneapolis)

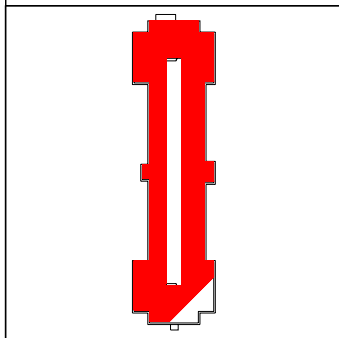
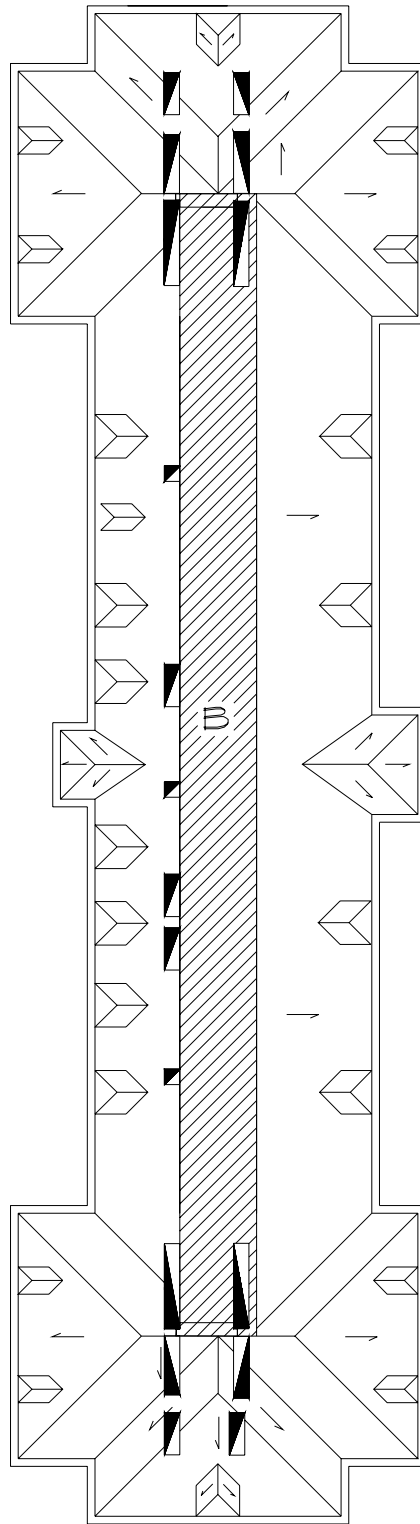
**Roof Access:** 448, light switch behind door

**Total Area:** 34,502 sf

<b>A</b>	<b>29,400</b>	<b>E</b>	<b>102</b>
<b>B</b>	<b>4,680</b>		
<b>C</b>	<b>208</b>		
<b>D</b>	<b>112</b>		

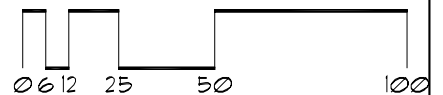


# Roof Corrective Action



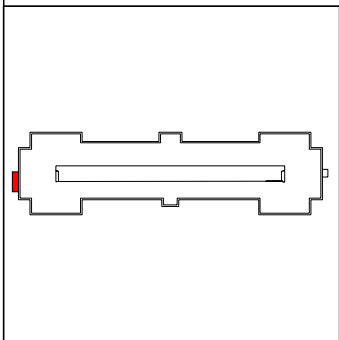
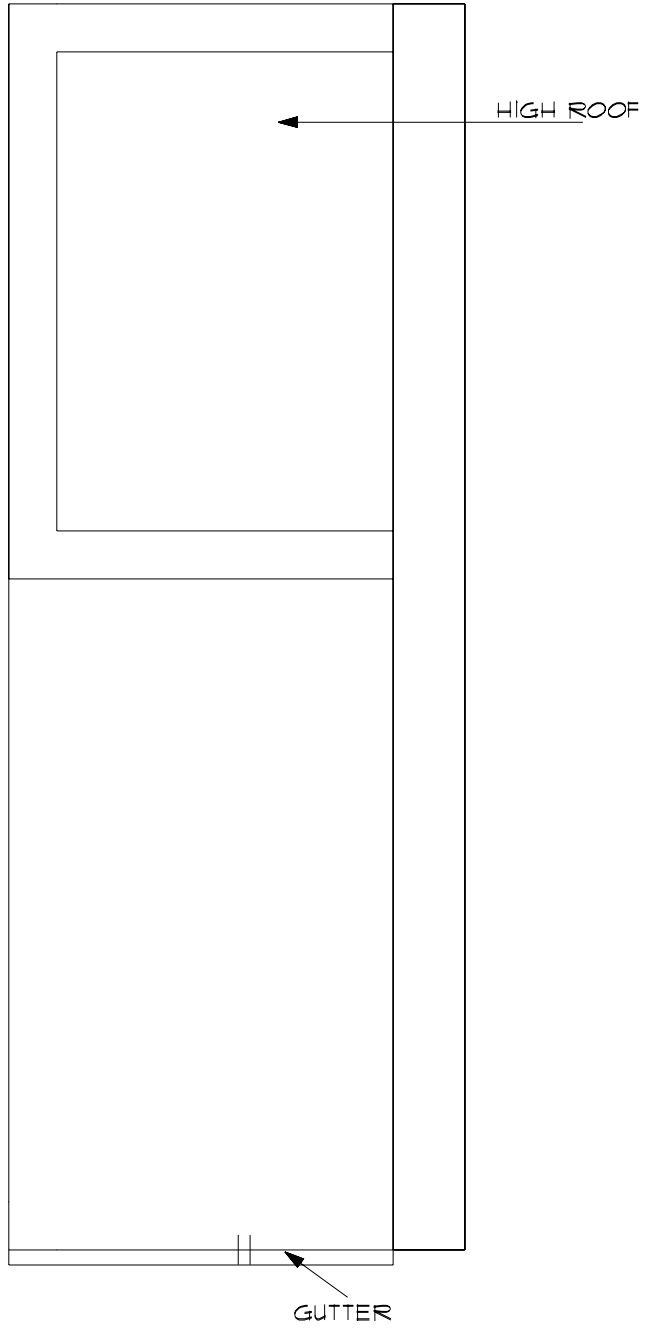
### SYMBOLS KEY

- CHIMNEY
- SLOPE DIRECTION
- ⊕ DEFECT-REPAIR

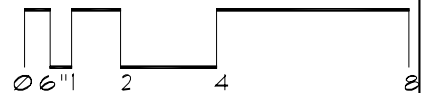




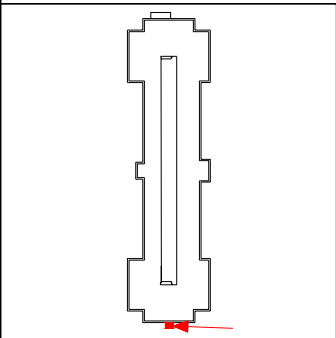
# Roof Corrective Action



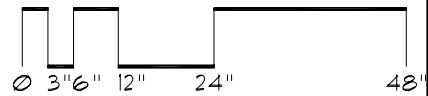
SYMBOLS KEY  
|| SCUPPER



# Roof Corrective Action

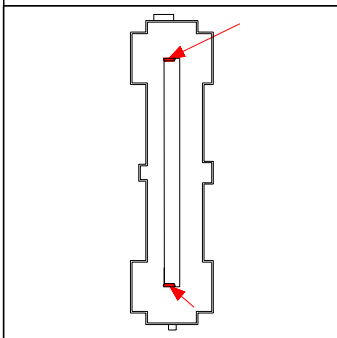
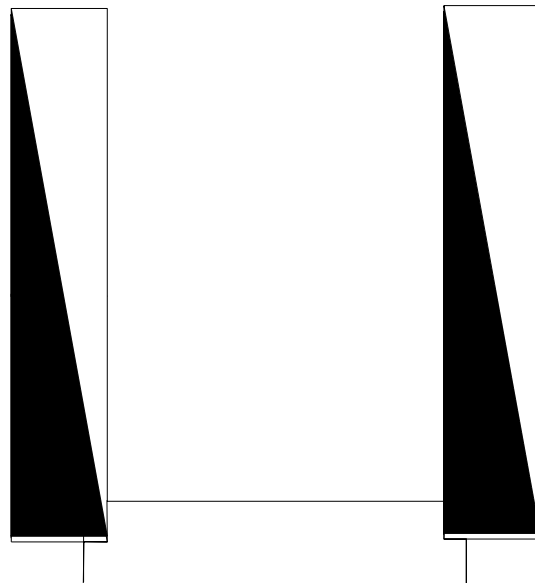
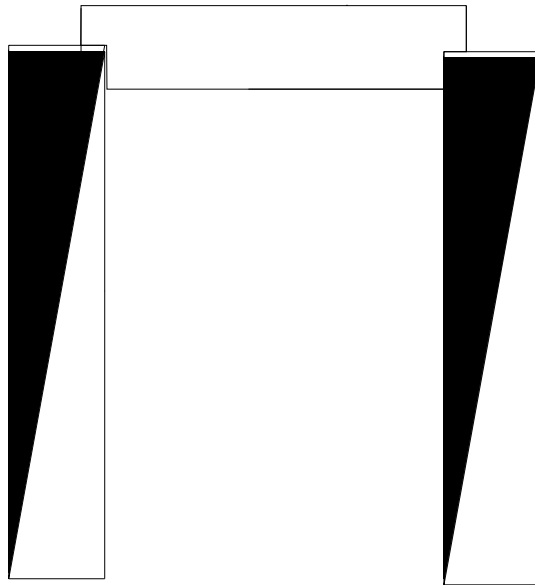


SYMBOLS KEY  
● ROOF DRAIN

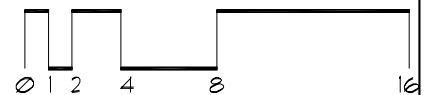




# Roof Corrective Action



SYMBOLS KEY  
■ CHIMNEY



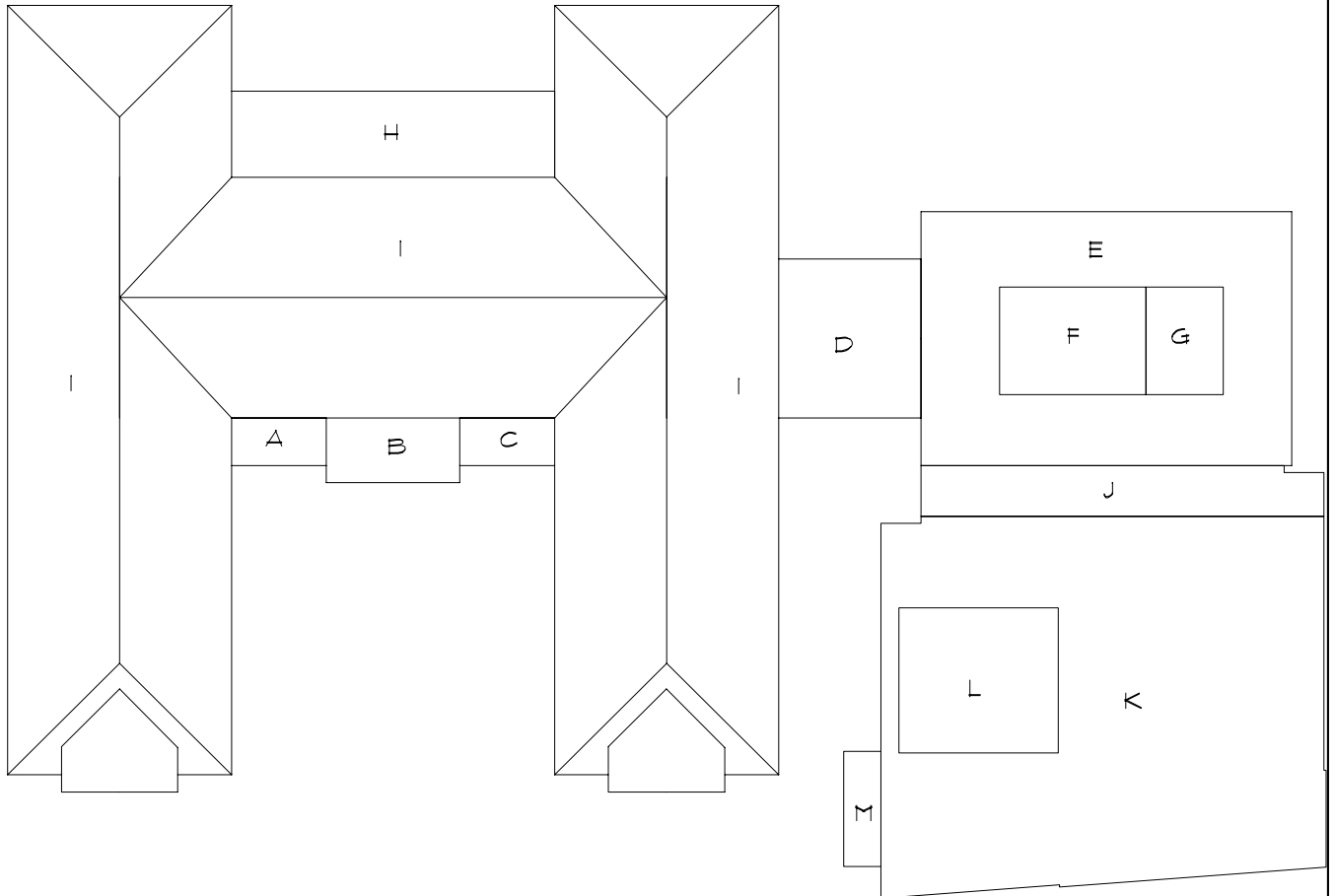
# Roof ID

Building: EB028 - Sanford Hall - (1122 University Ave SE)

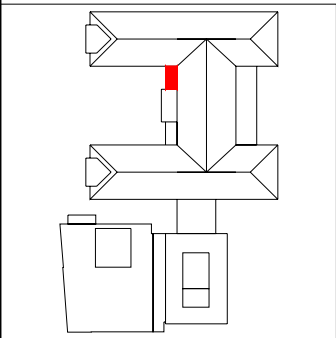
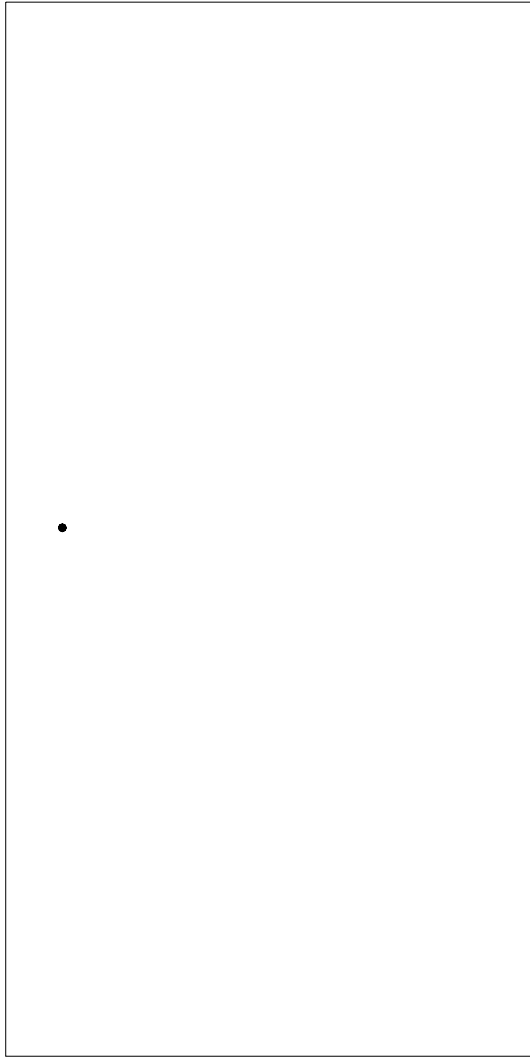
Total Area: 50,259 sf

A	242	E	5,074	I	30,155	M	230
B	465	F	850	J	1,100		
C	242	G	450	K	7,500		
D	1,221	H	1,480	L	1,250		

## SYMBOLS KEY

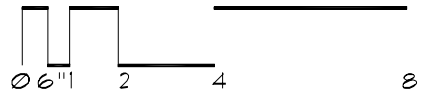


# Roof Corrective Action

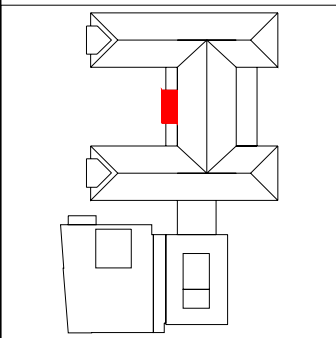
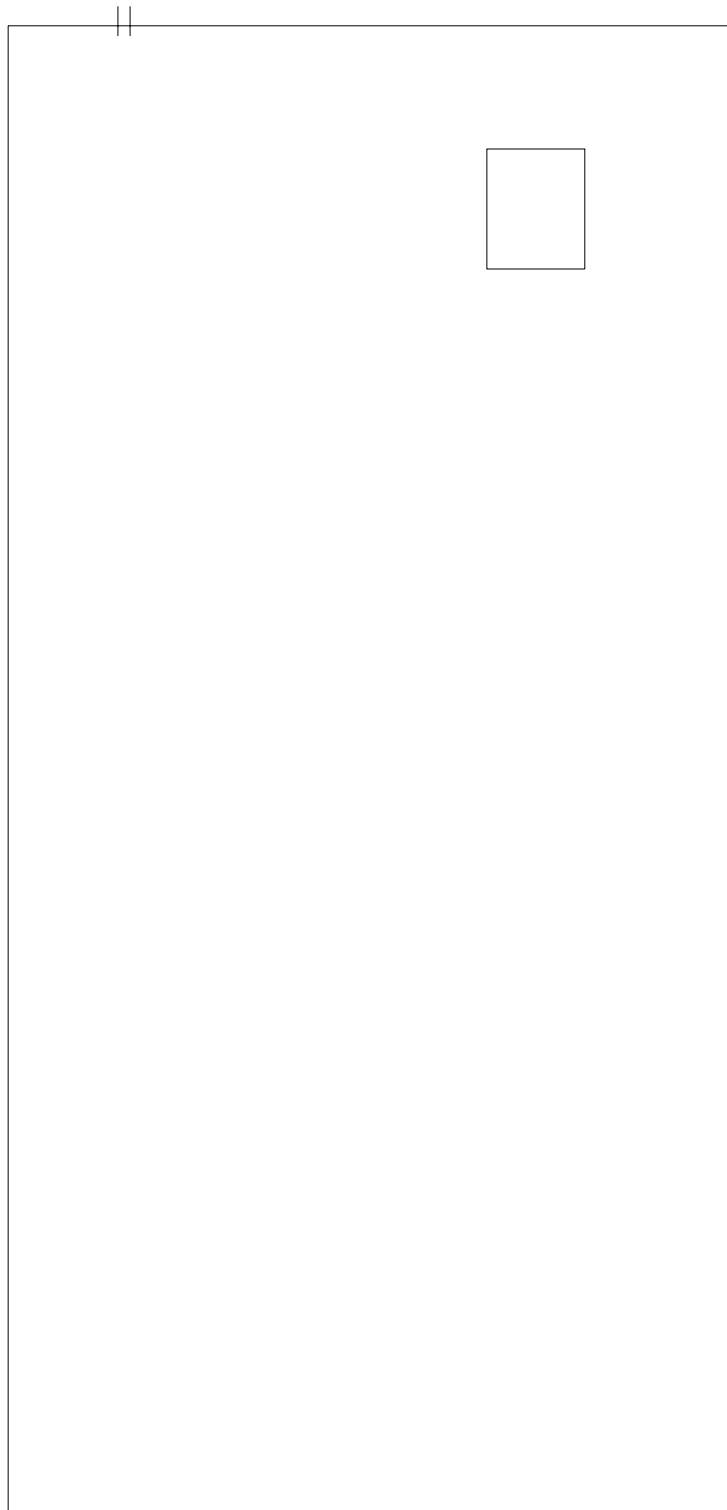


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- ① DEFECT-NO REPAIR



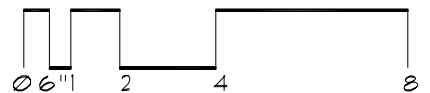
# Roof Corrective Action



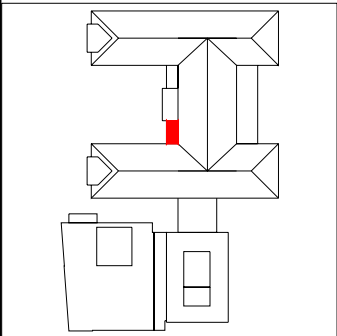
## SYMBOLS KEY

|| SCUPPER

□ ROOF CURB

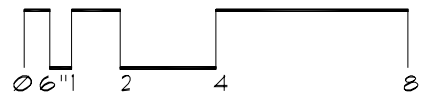


# Roof Corrective Action

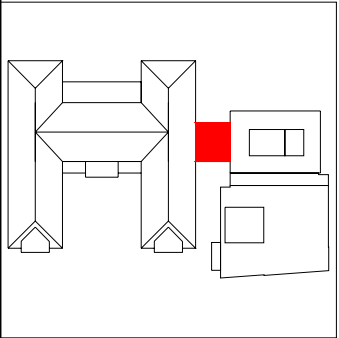
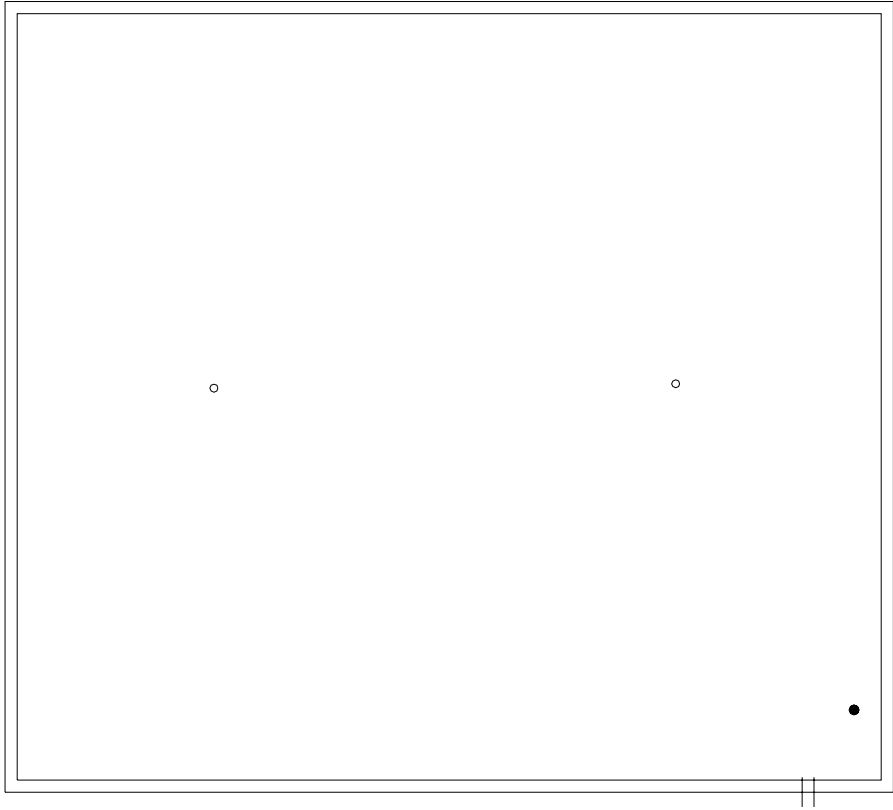


## SYMBOLS KEY

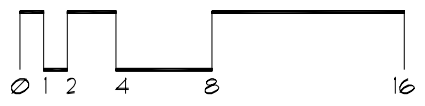
- ROOF DRAIN
- ⓪ DEFECT-NO REPAIR



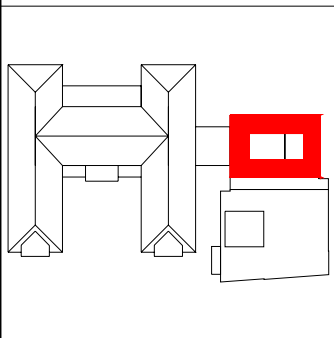
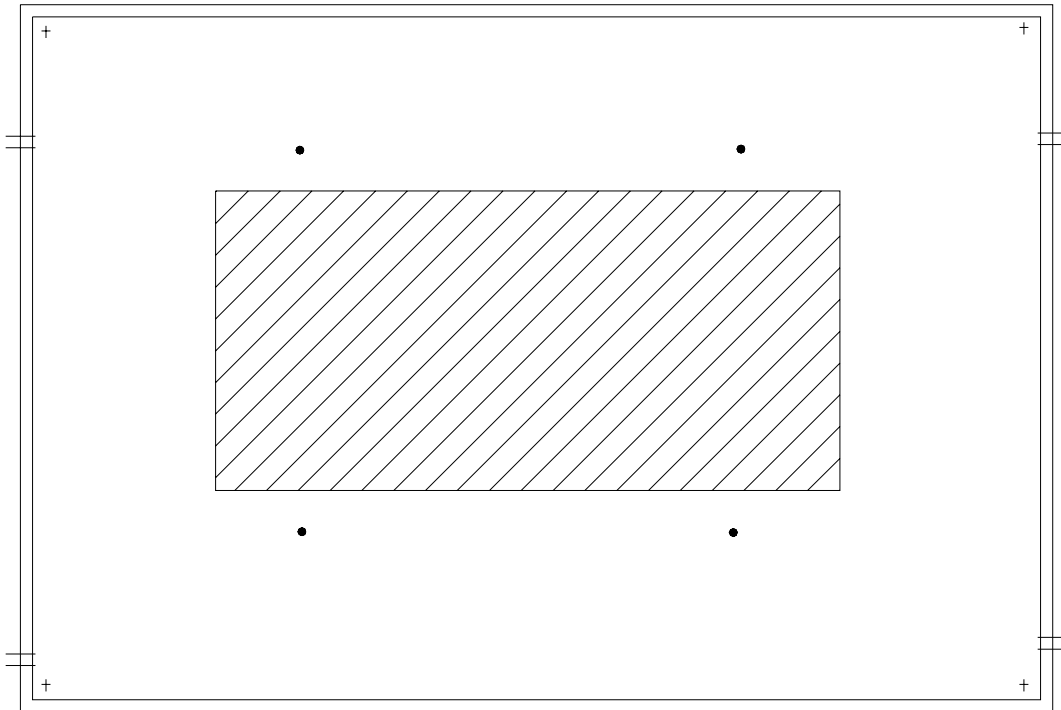
# Roof Corrective Action



- SYMBOLS KEY
- ROOF DRAIN
  - VENT STACK
  - ≡ SCUPPER

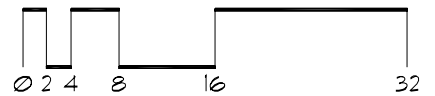


# Roof Corrective Action

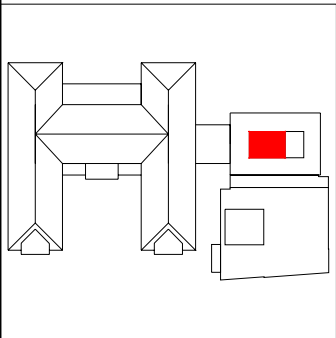
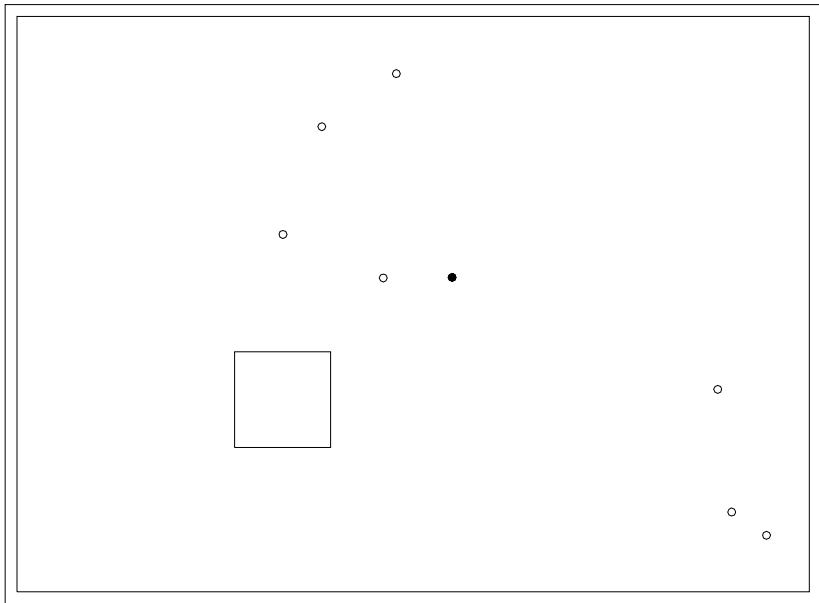


## SYMBOLS KEY

- ROOF DRAIN
- ≡ SCUPPER
- † FLASHED PENETRATION

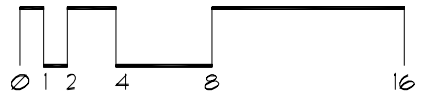


# Roof Corrective Action



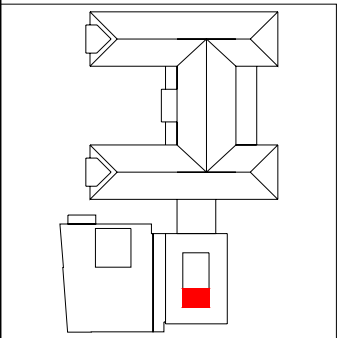
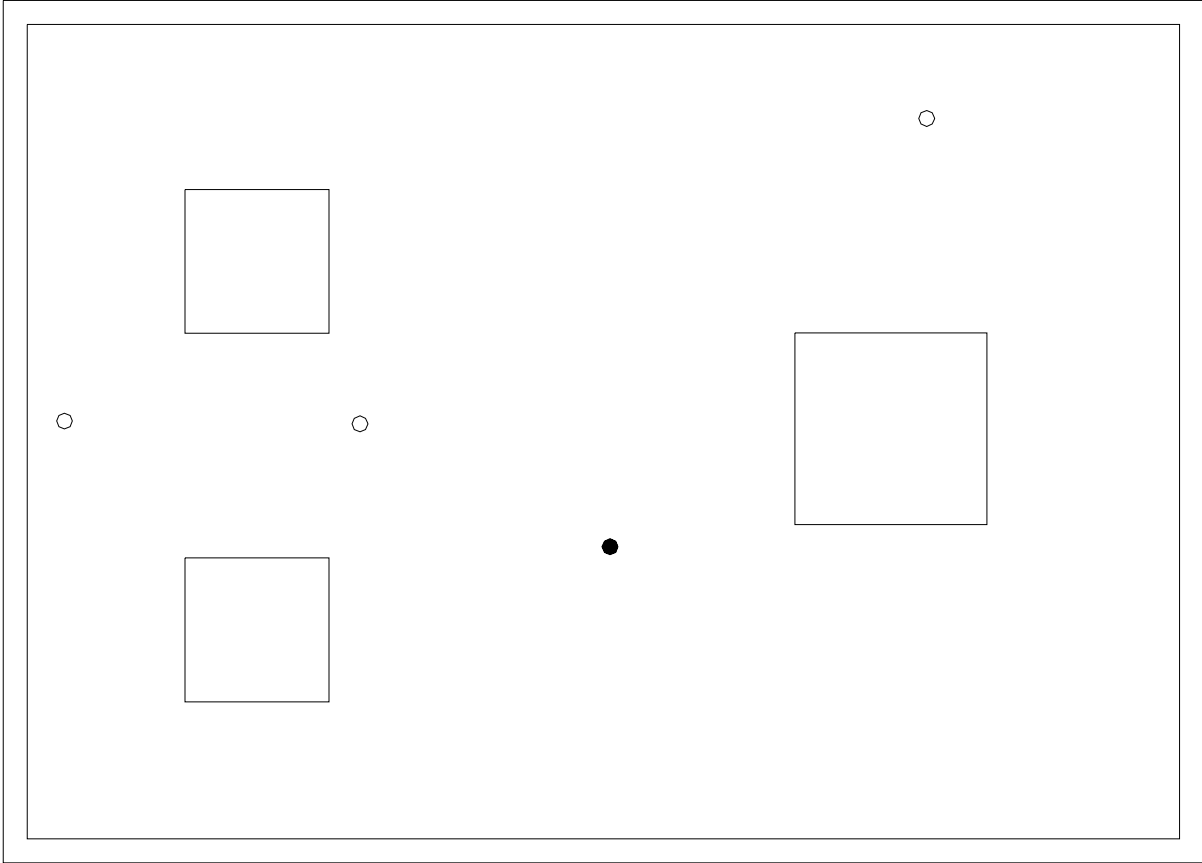
## SYMBOLS KEY

- ROOF CURB OR VENT
- ROOF DRAIN
- VENT STACK

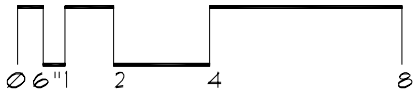




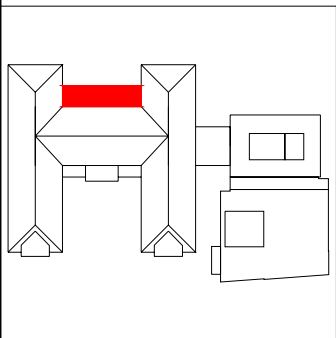
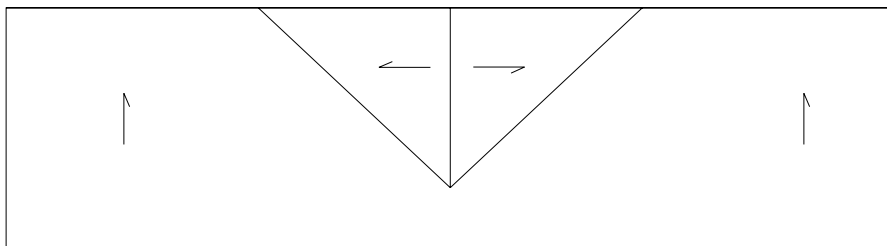
# Roof Corrective Action



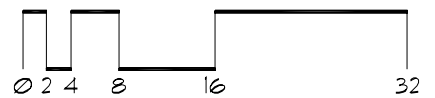
- SYMBOLS KEY
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK



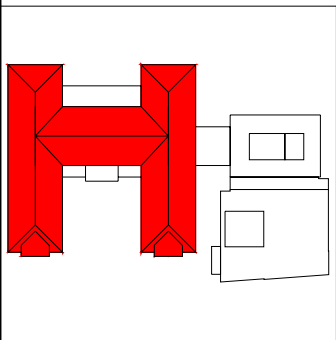
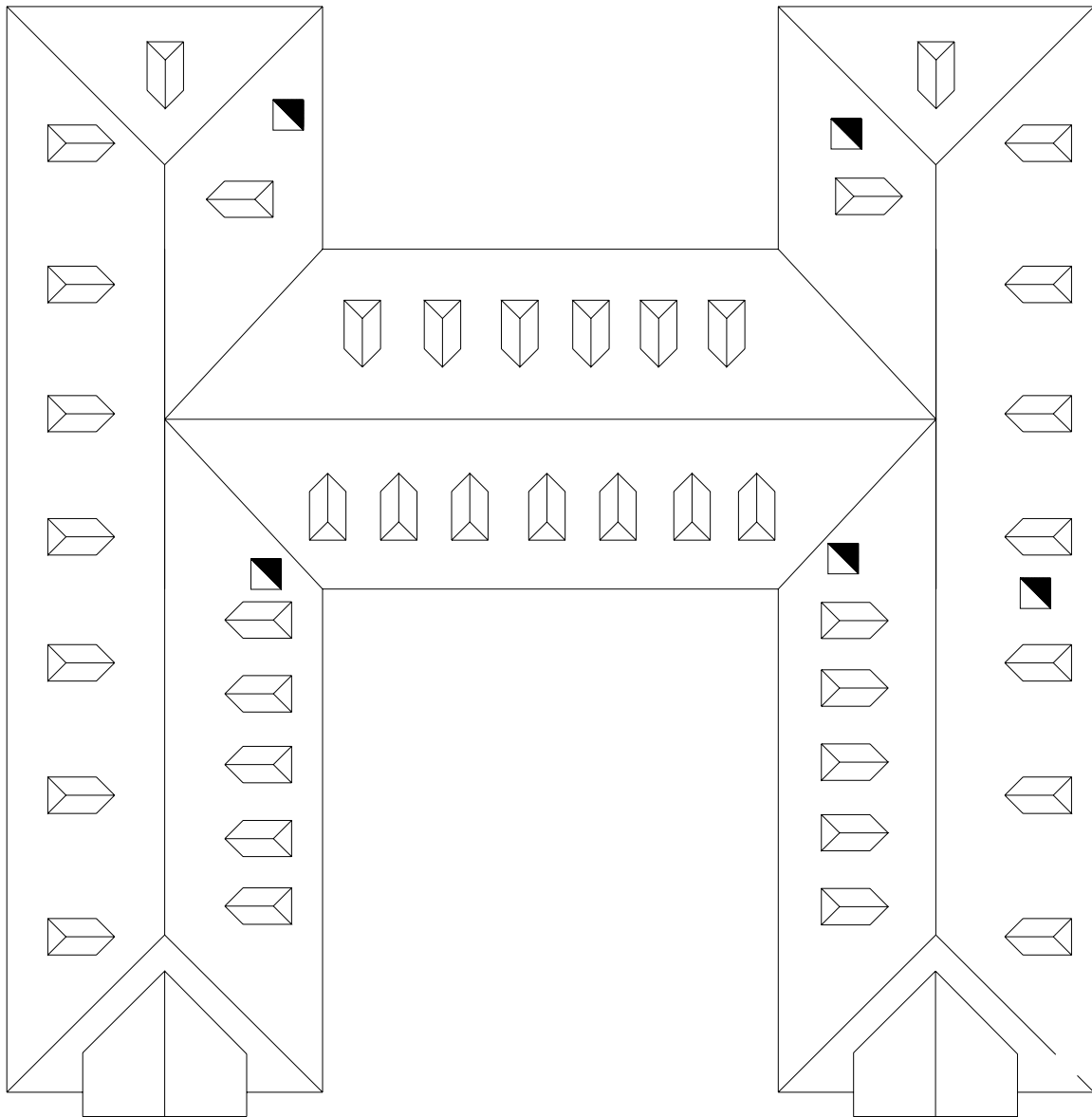
# Roof Corrective Action



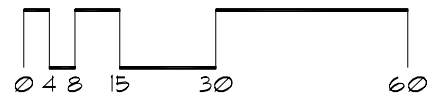
SYMBOLS KEY  
→ SLOPE DIRECTION



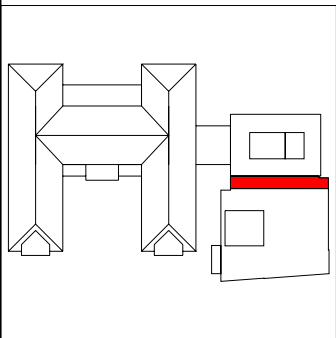
# Roof Corrective Action



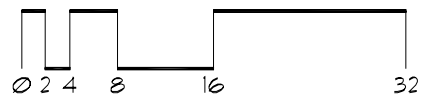
SYMBOLS KEY  
■ CHIMNEY



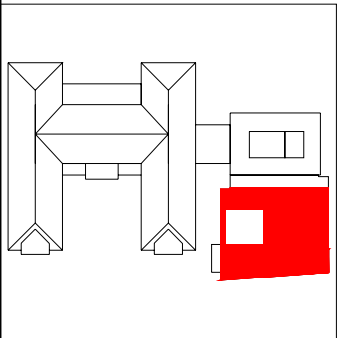
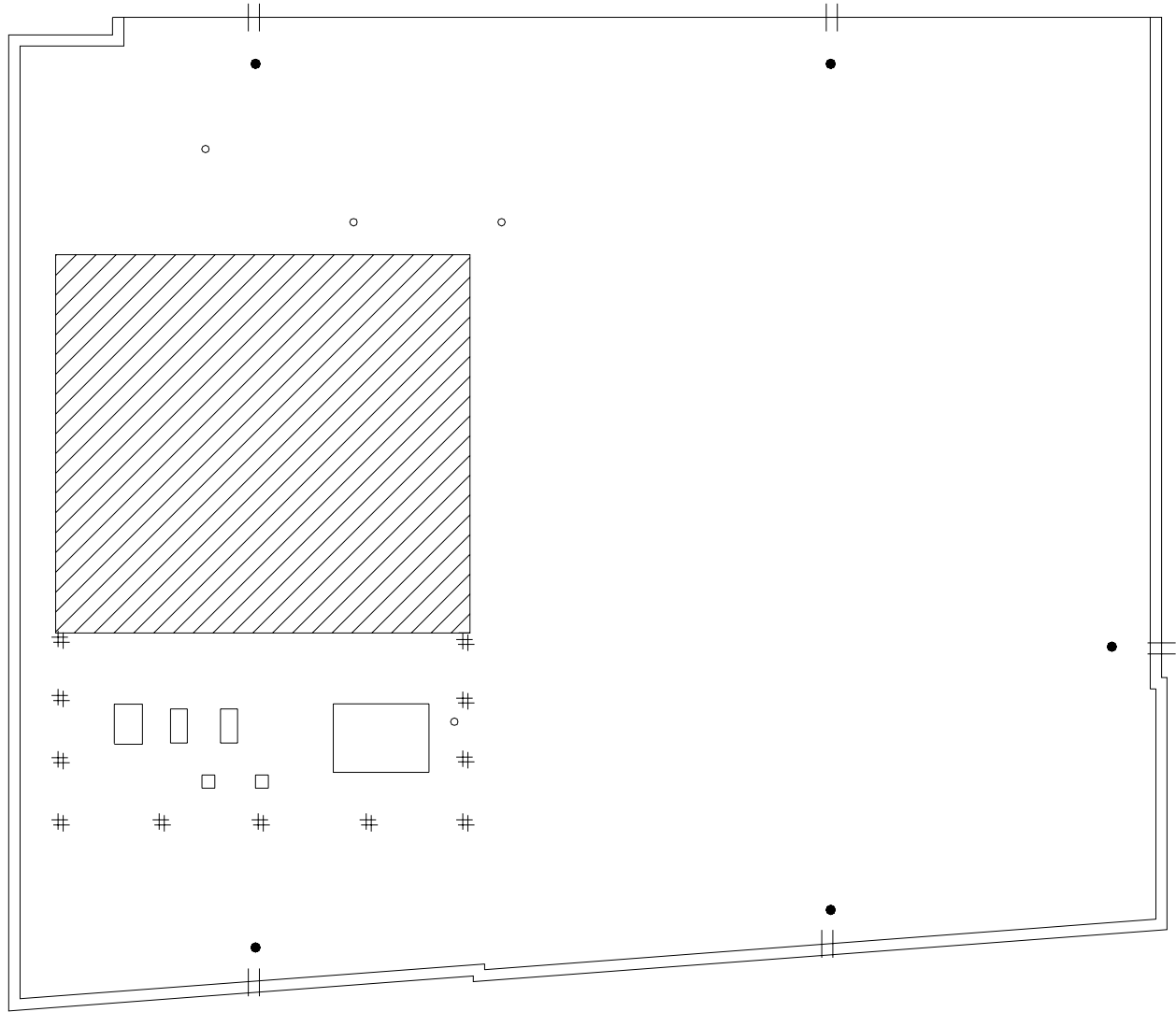
# Roof Corrective Action



SYMBOLS KEY  
• ROOF DRAIN

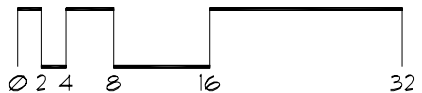


# Roof Corrective Action

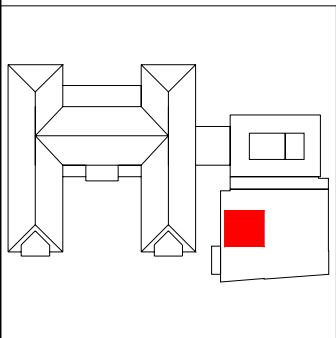
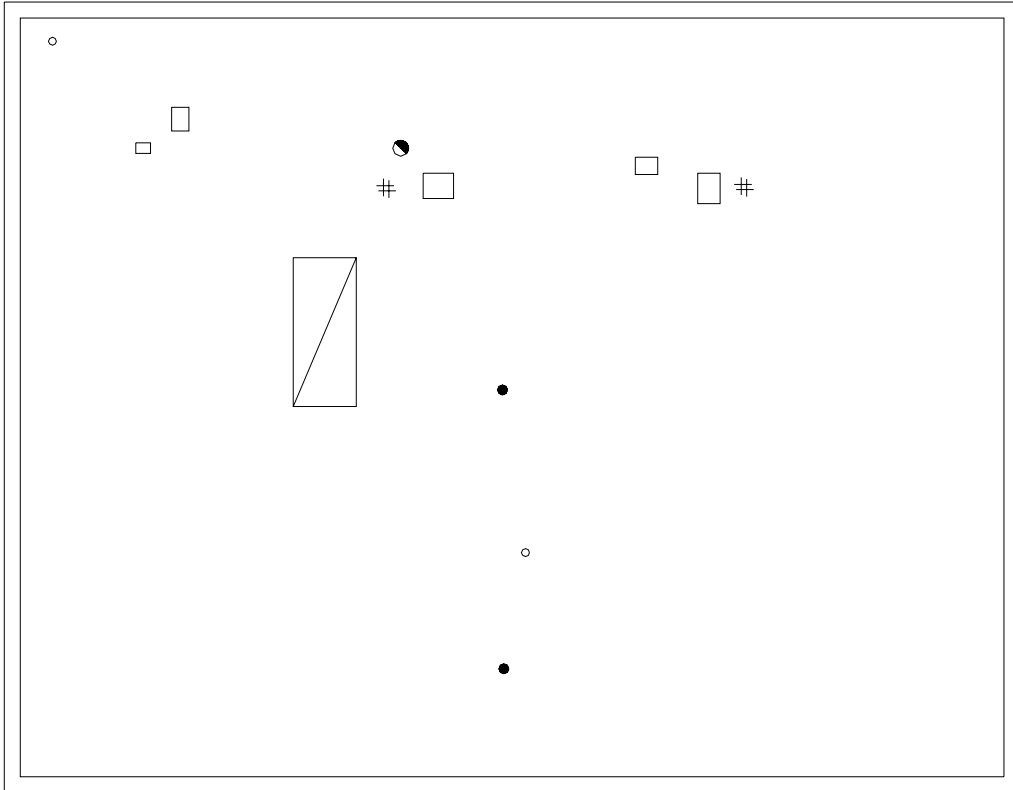


SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- || SCUPPER
- VENT STACK
- # PITCH PAN

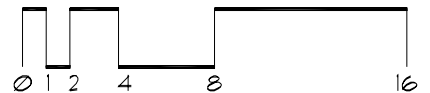


# Roof Corrective Action

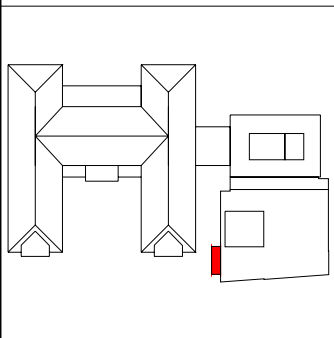
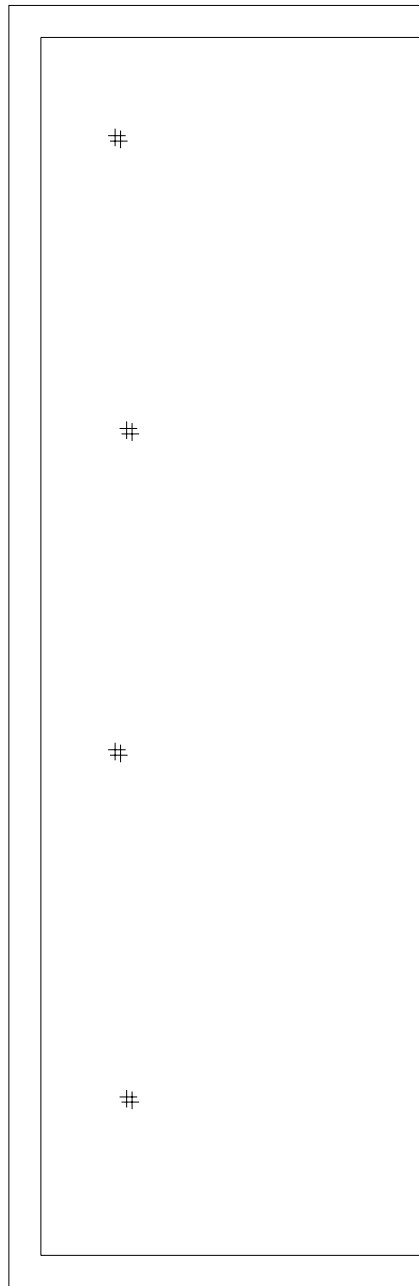


## SYMBOLS KEY

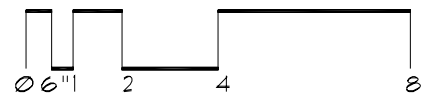
- ROOF DRAIN
- ⊕ SCUPPER
- ▣ ROOF HATCH
- ROOF CURB



# Roof Corrective Action



SYMBOLS KEY  
# PITCH PAN  
DEFECT-REPAIR

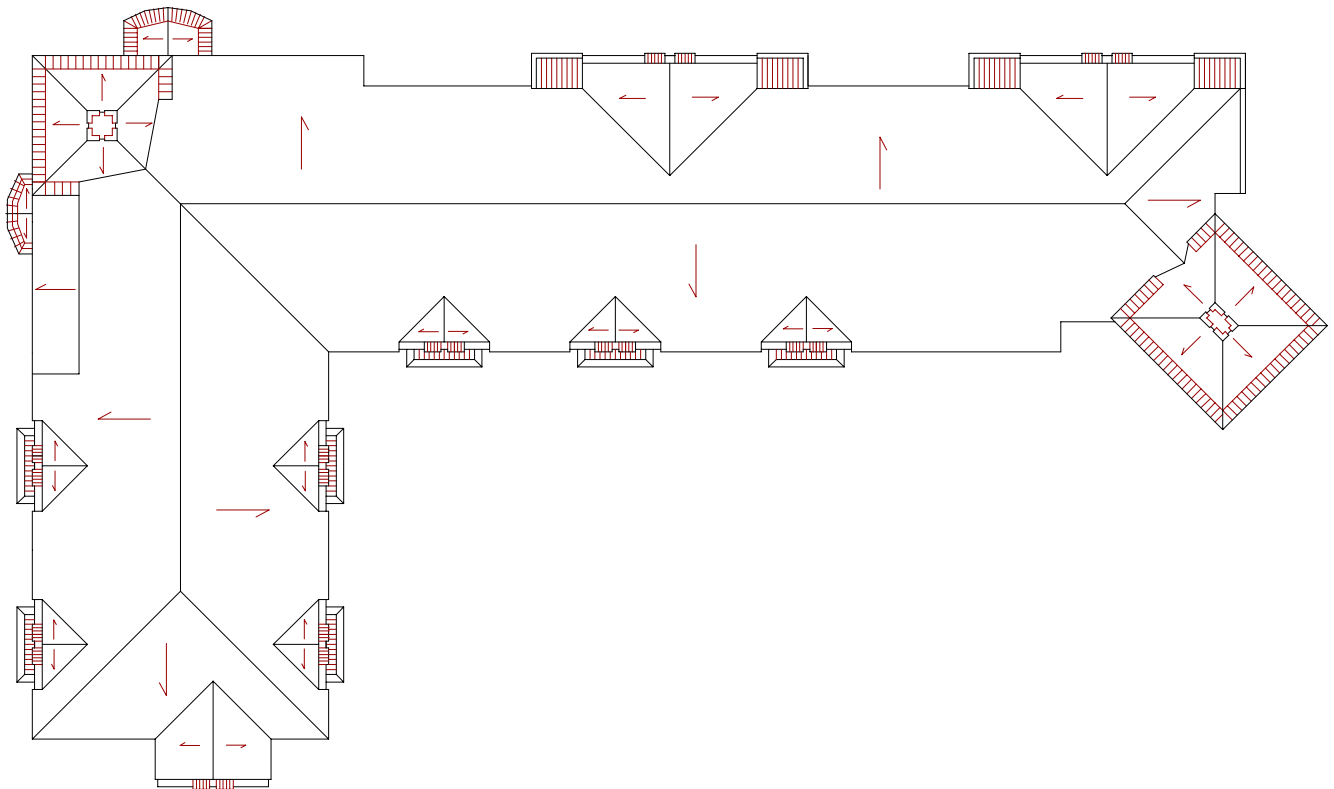


# Roof ID

Building: EB030 - Roy Wilkins Hall - (1212 University Ave SE)

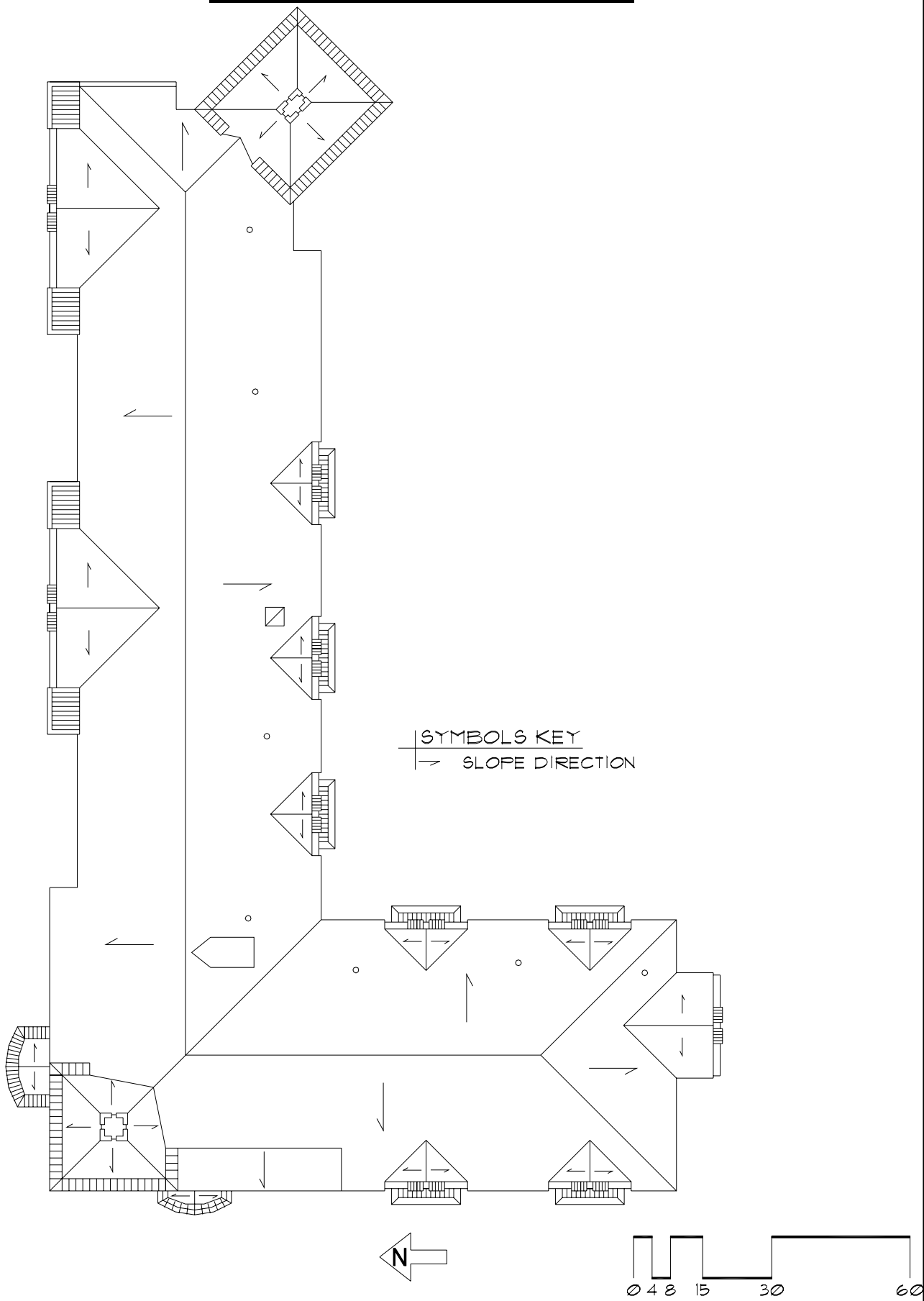
Total Area: 19,165 sf

A 19,165





# Roof Corrective Action



# Roof ID

**Building:** EB031 - Lind Hall - (207 Church Street SE Minneapolis)

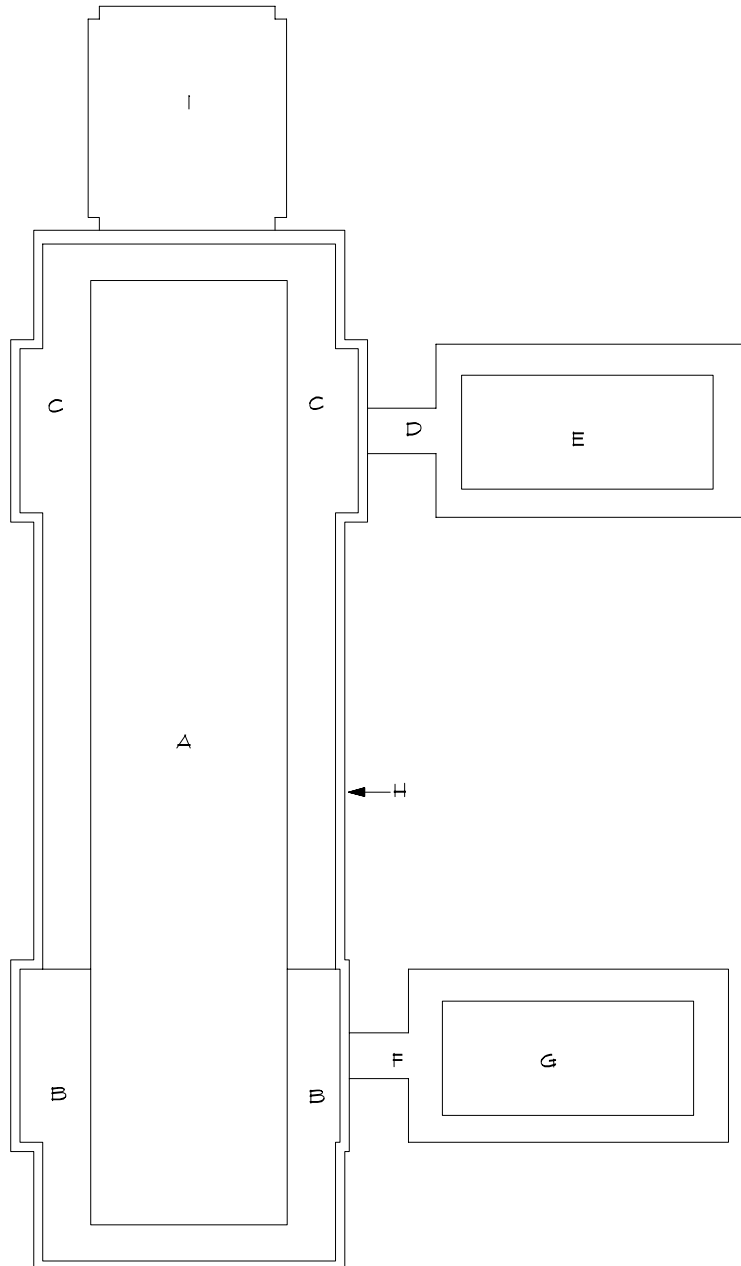
**Roof Access:** South stairwell to top floor door access

**Total Area:** 23,991 sf

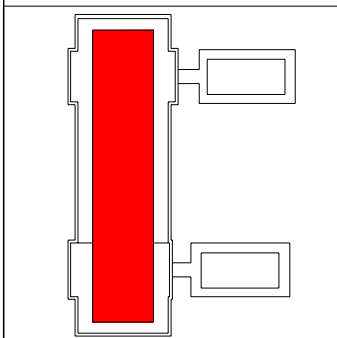
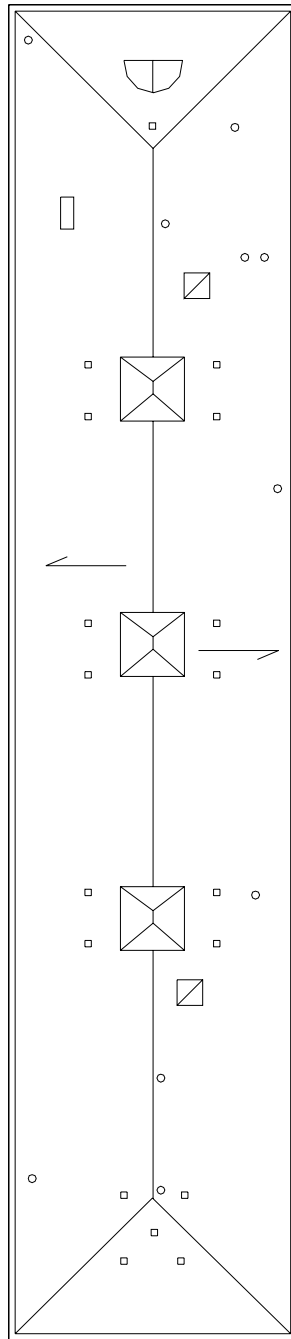
<b>A</b>	<b>9,381</b>	<b>E</b>	<b>1,430</b>	<b>I</b>	<b>1,930</b>
<b>B</b>	<b>1,852</b>	<b>F</b>	<b>1,415</b>		
<b>C</b>	<b>3,904</b>	<b>G</b>	<b>1,430</b>		
<b>D</b>	<b>1,415</b>	<b>H</b>	<b>1,234</b>		

## SYMBOLS KEY

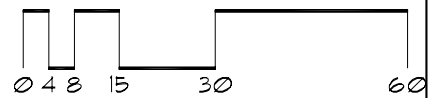
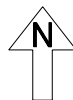
|



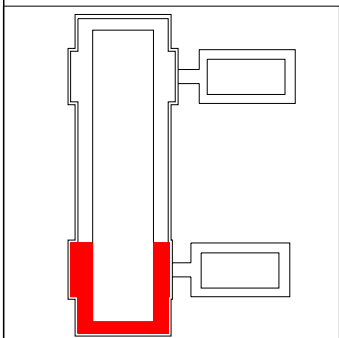
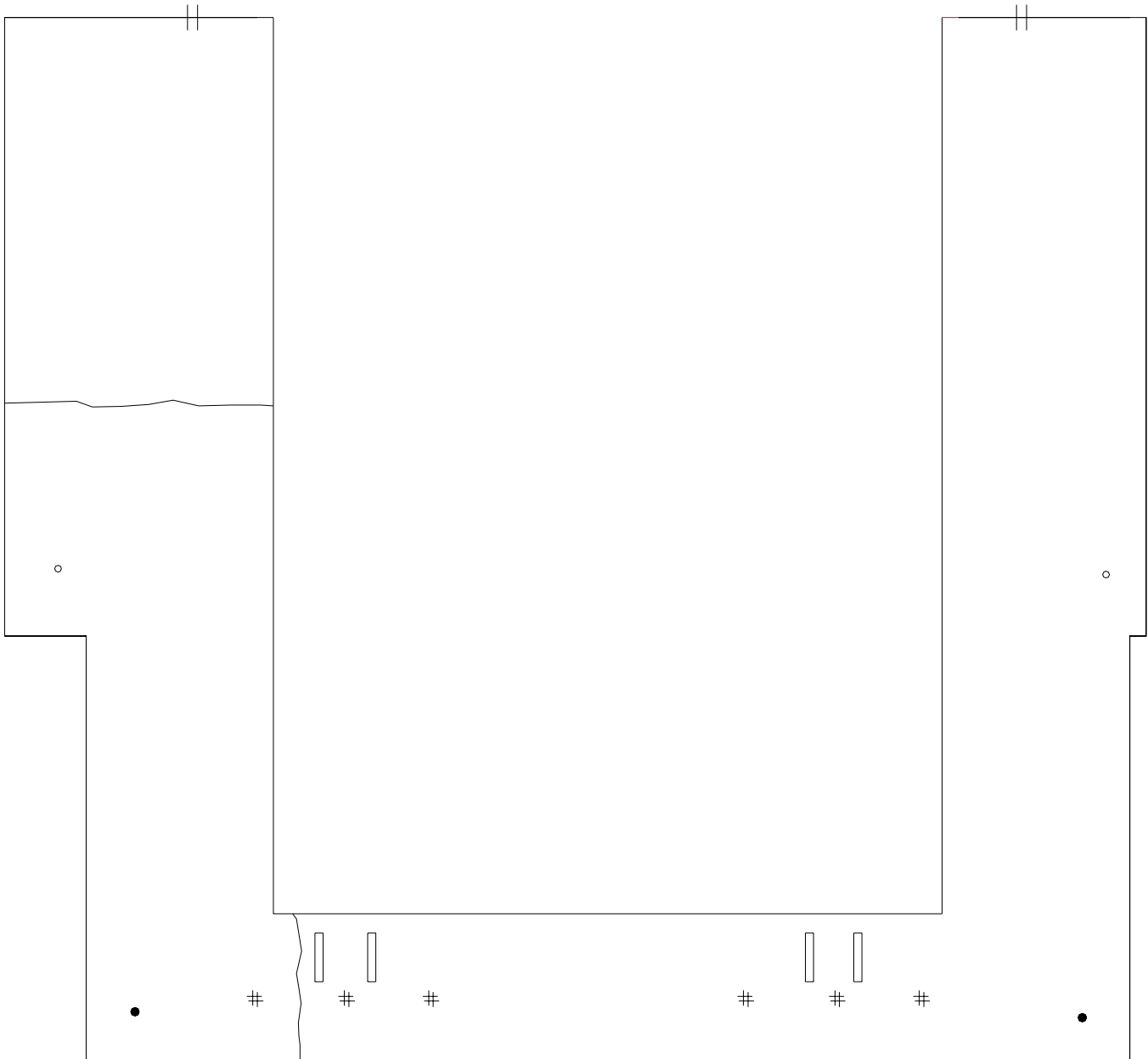
# Roof Corrective Action



- ⊖ DEFECT-REPAIR
- ⊙ DEFECT-NO REPAIR

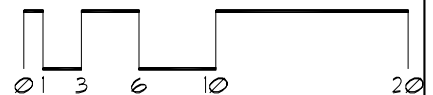


# Roof Corrective Action

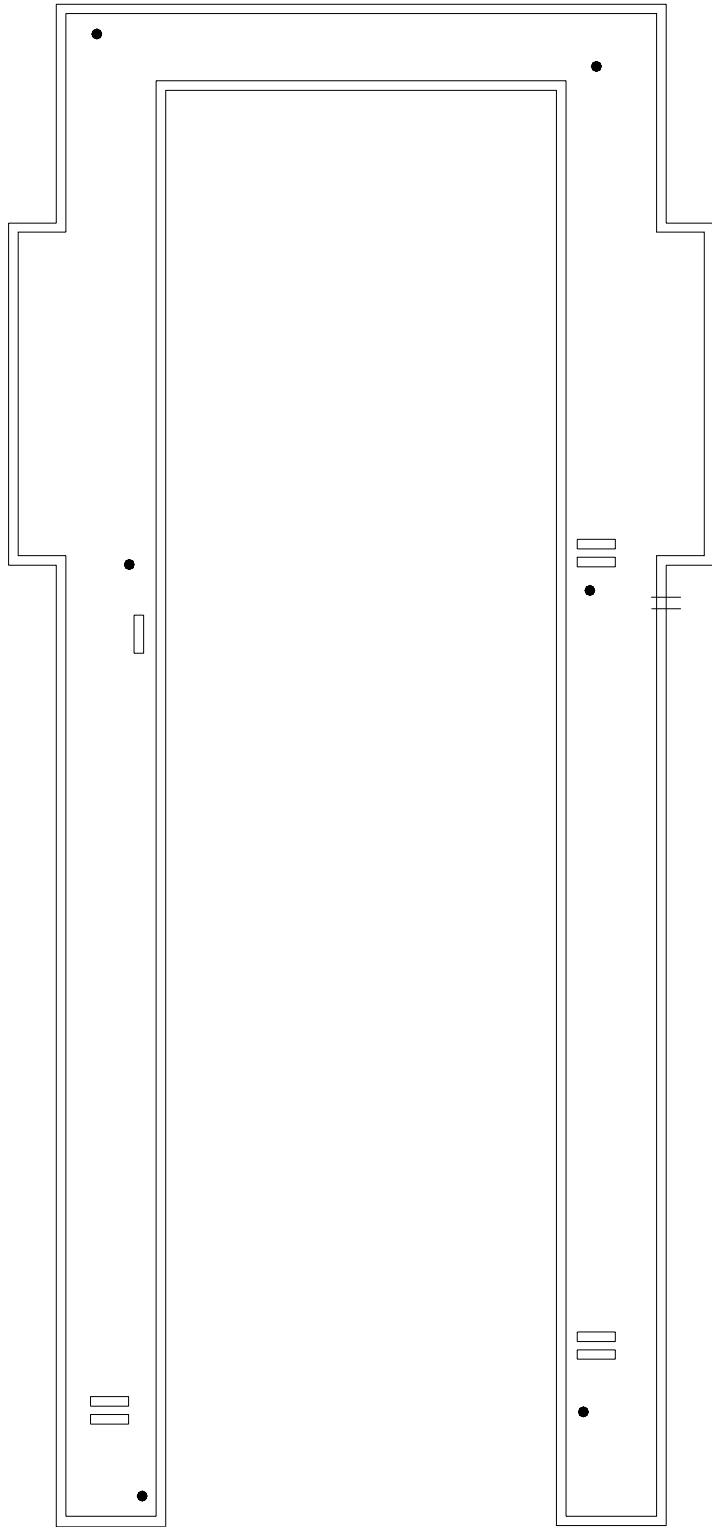


## SYMBOLS KEY

- ⊥ SCUPPER
- VENT STACK
- ROOF DRAIN
- Ⓢ DEFECT-REPAIR
- Ⓣ DEFECT-NO REPAIR

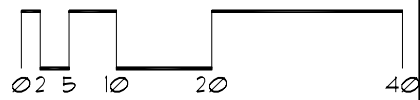
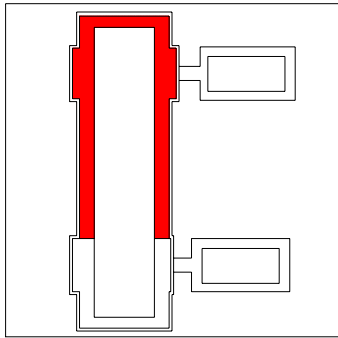


# Roof Corrective Action

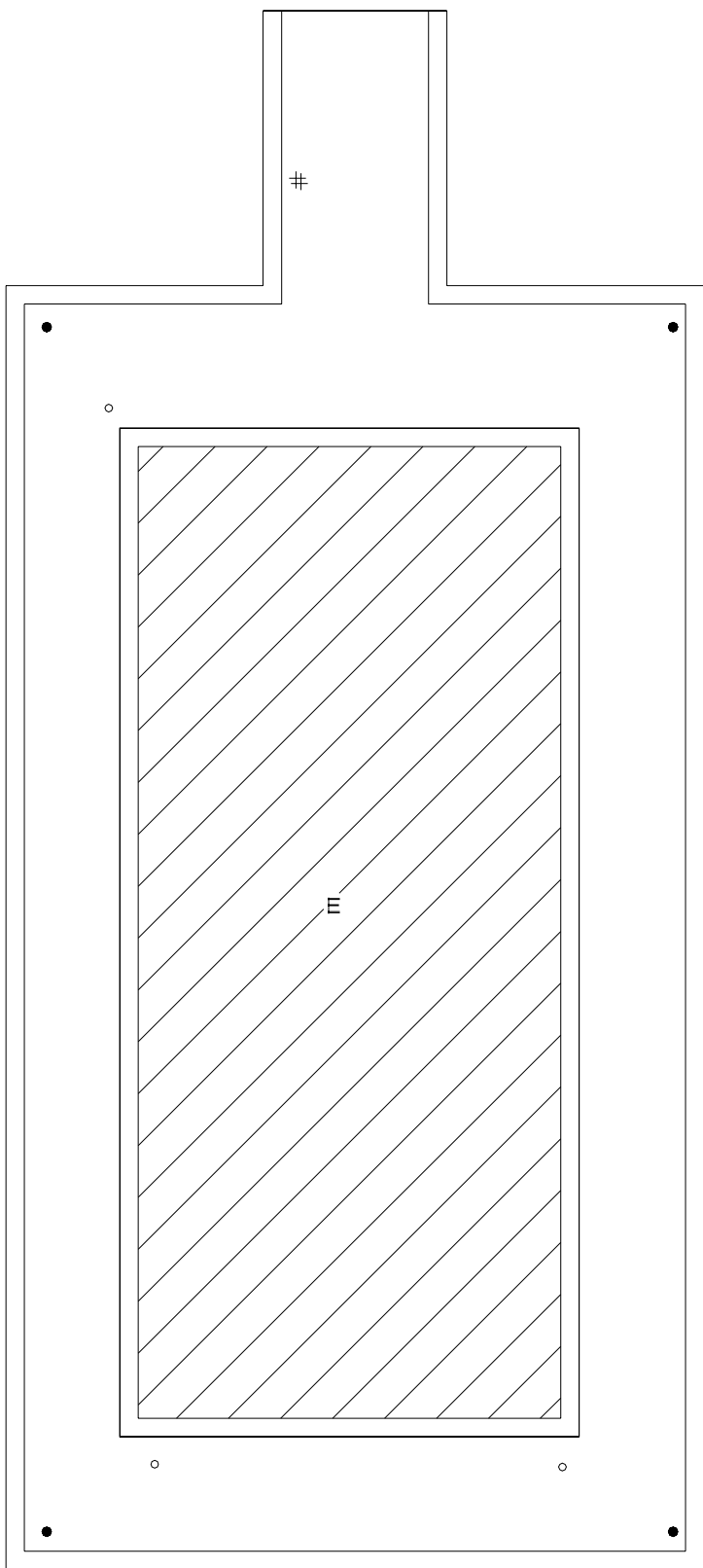


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- DEFECT-REPAIR
- DEFECT-NO REPAIR
- ▬ SLEEPER CURB

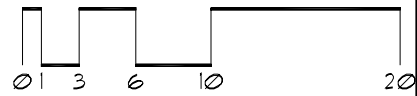
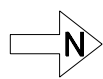
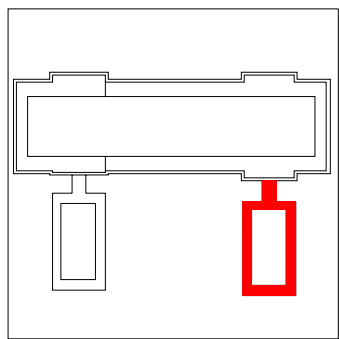


# Roof Corrective Action

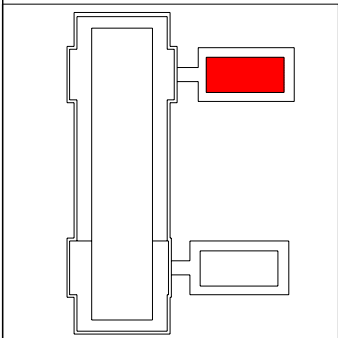


## SYMBOLS KEY

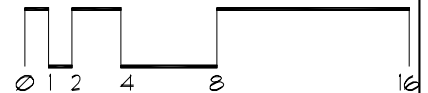
- ROOF DRAIN
- VENT STACK
- ① DEFECT-REPAIR
- ⓪ DEFECT-NO REPAIR



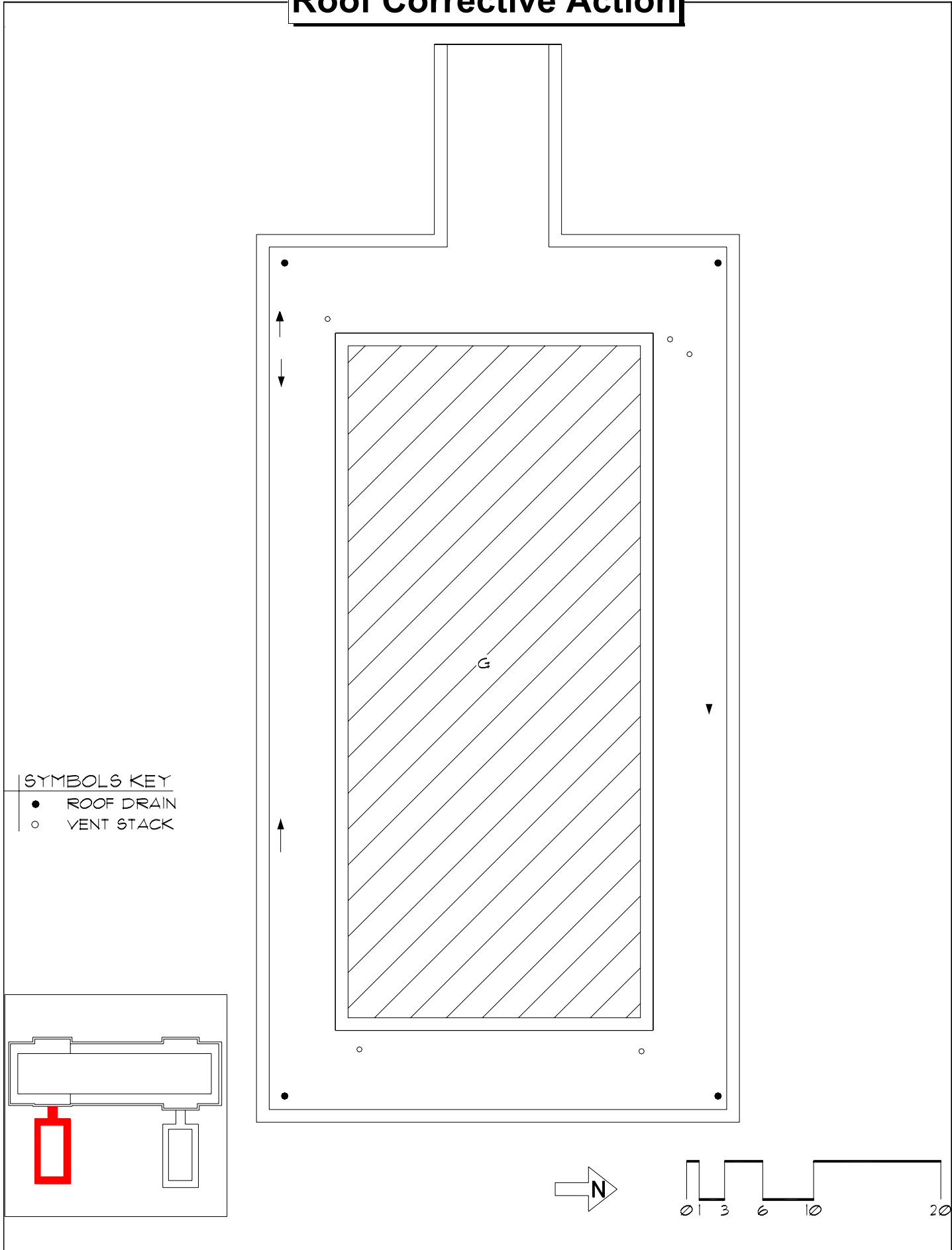
# Roof Corrective Action



SYMBOLS KEY  
□ ROOF CURB  
DEFECT-REPAIR

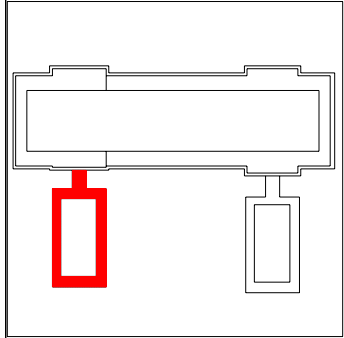


# Roof Corrective Action



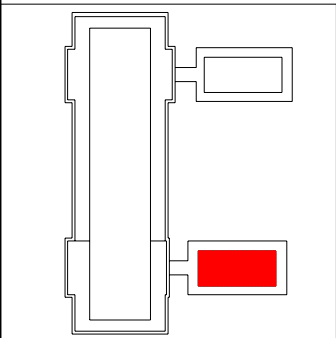
## SYMBOLS KEY

- ROOF DRAIN
- VENT STACK

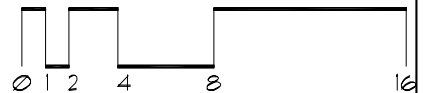




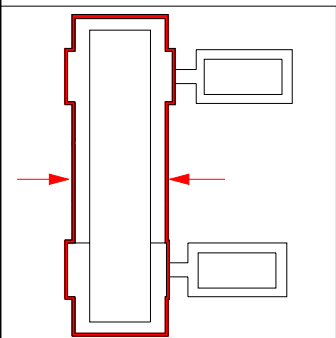
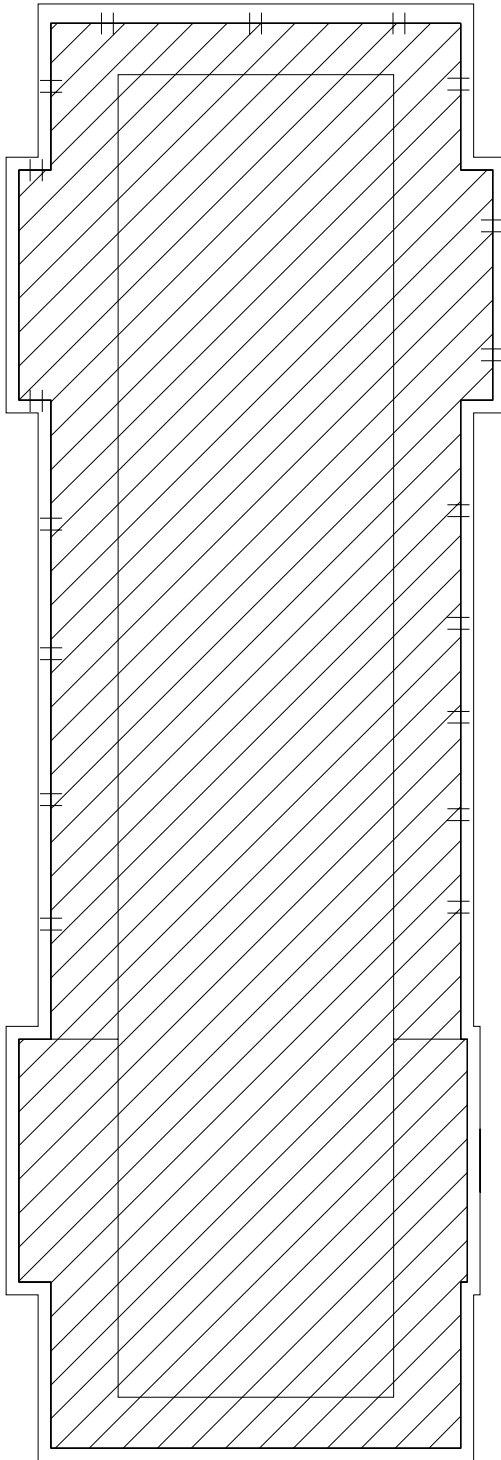
# Roof Corrective Action



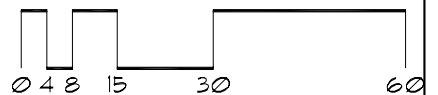
SYMBOLS KEY  
① DEFECT-NO REPAIR



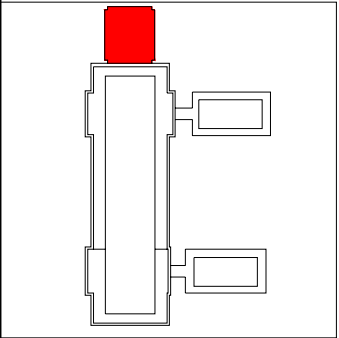
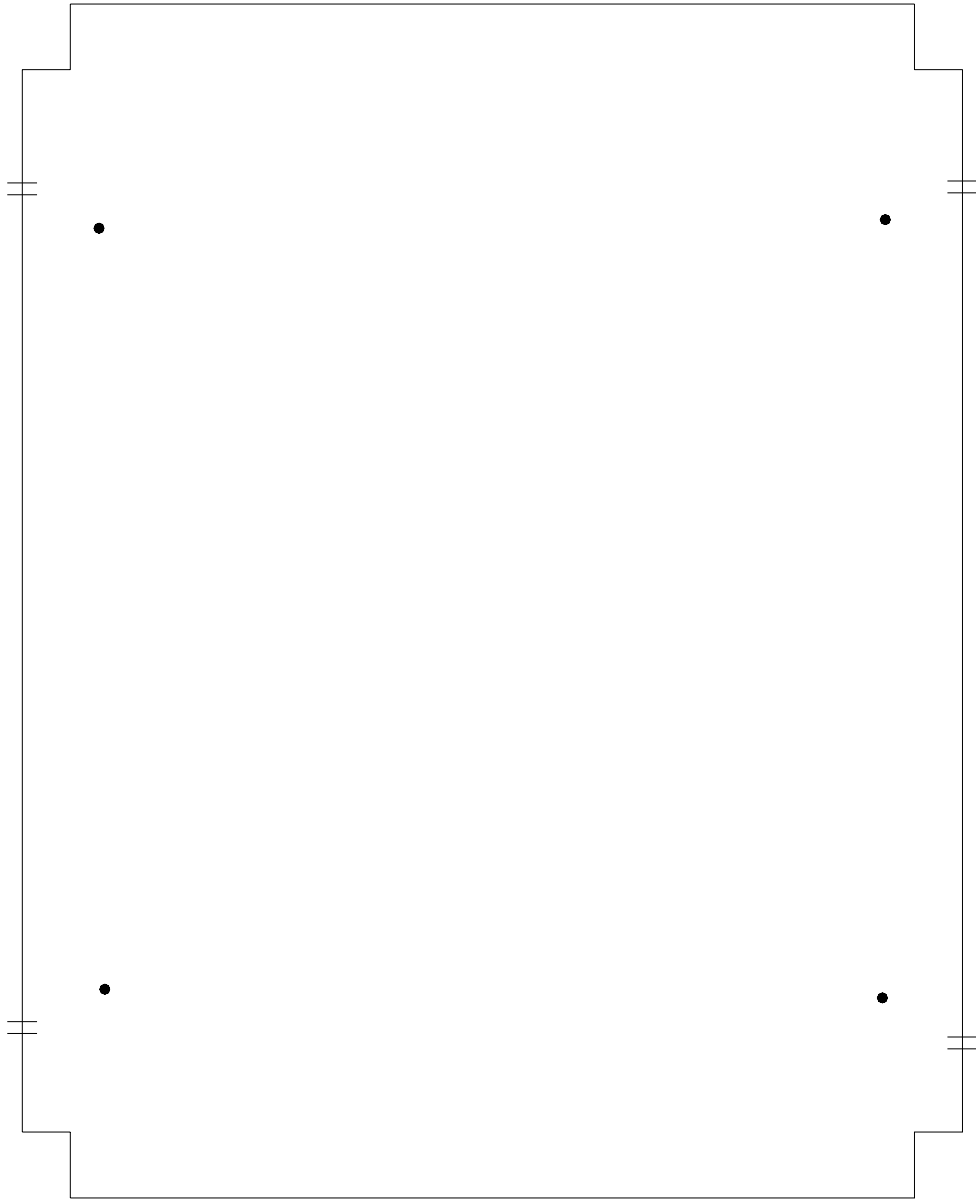
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER

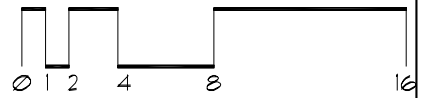


# Roof Corrective Action



### SYMBOLS KEY

- ROOF DRAIN
- ⦶ SCUPPER
- ⊙ DEFECT-NO REPAIR

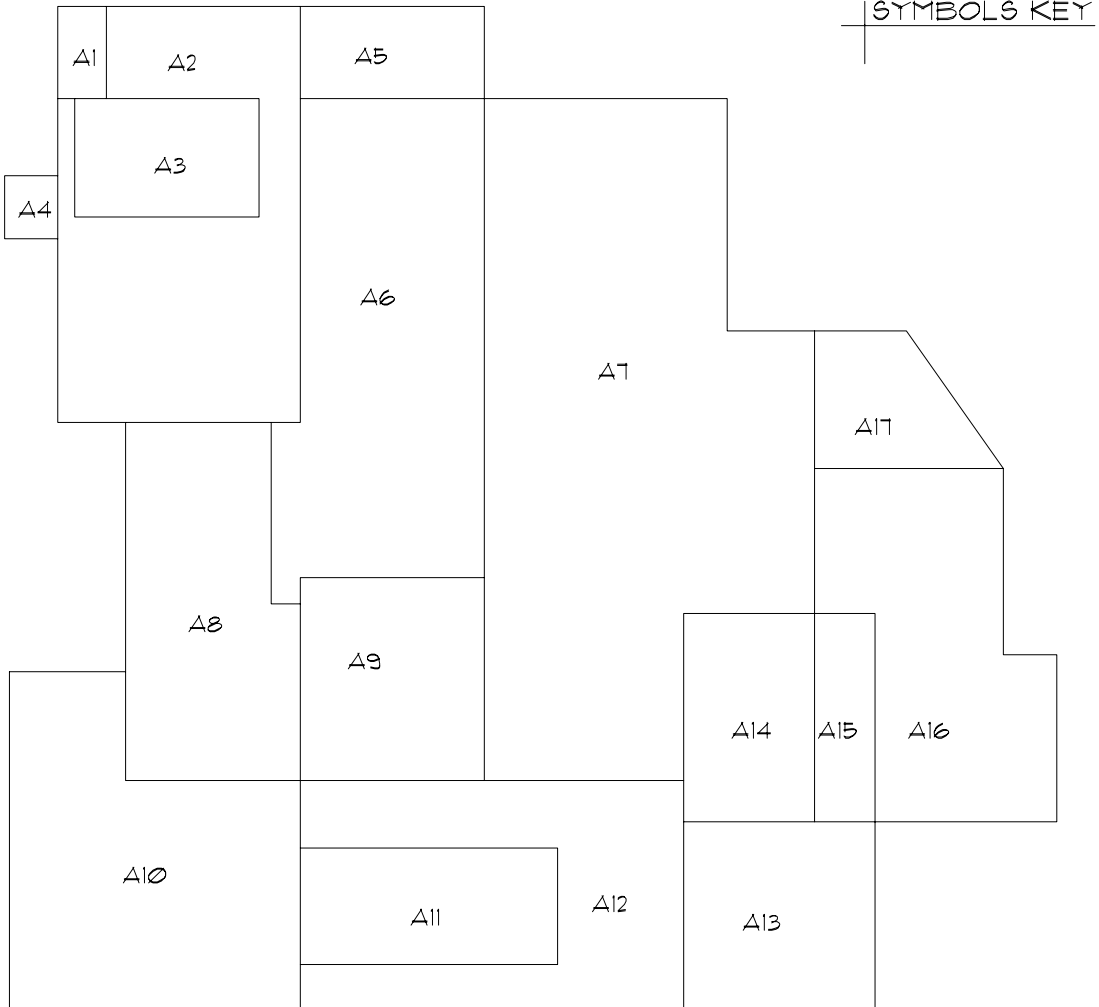


# Roof ID

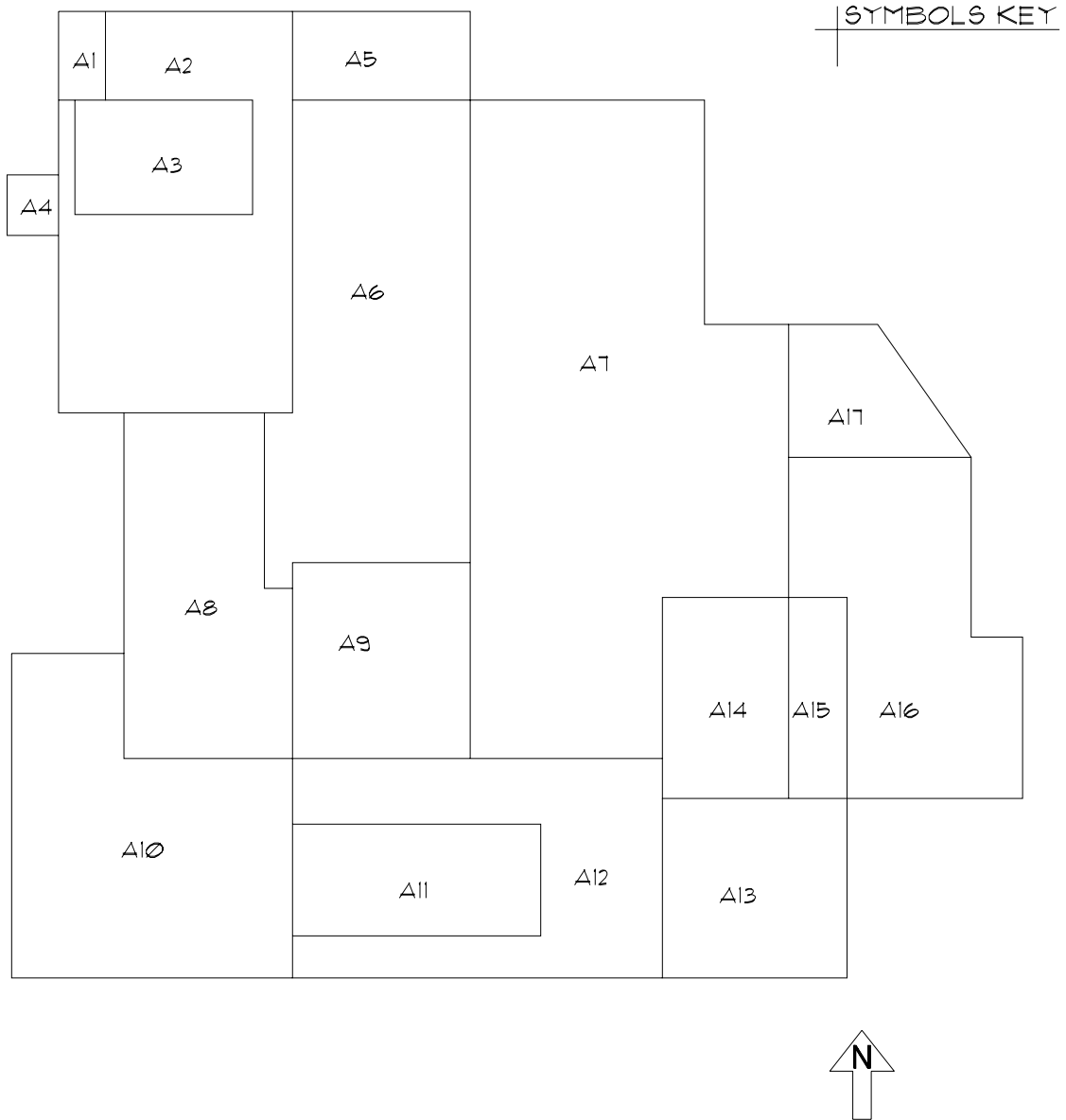
Building: EB034 - Heating Plant - ()

Total Area: 39,465 sf

A 39,465



# Roof Corrective Action

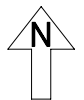
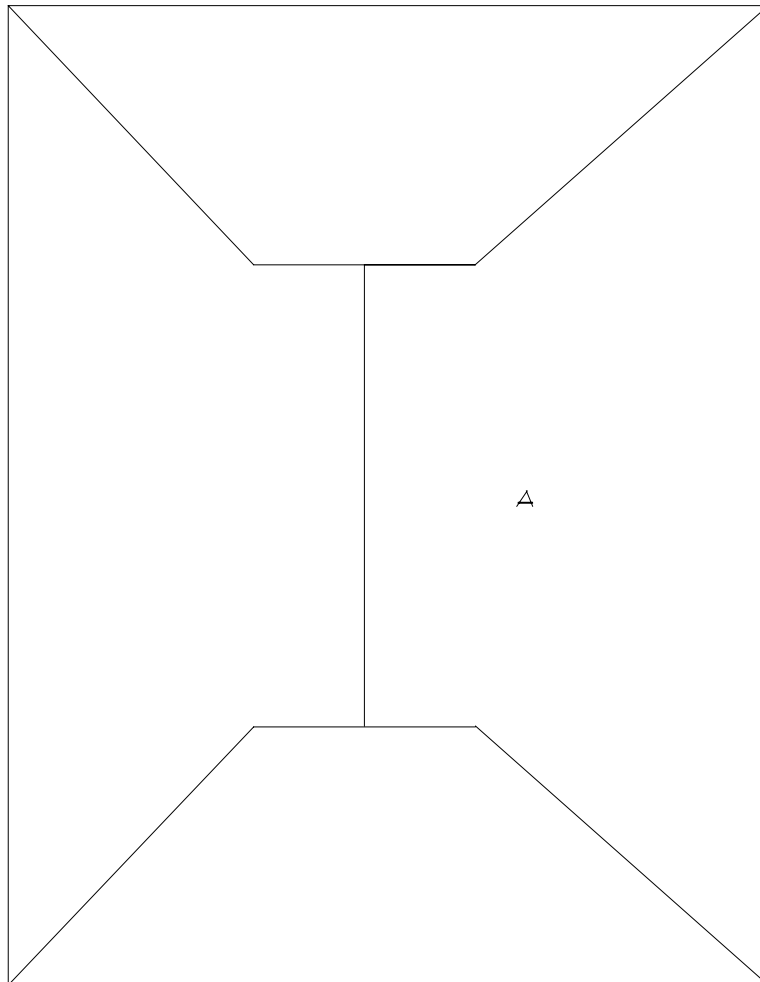


# Roof ID

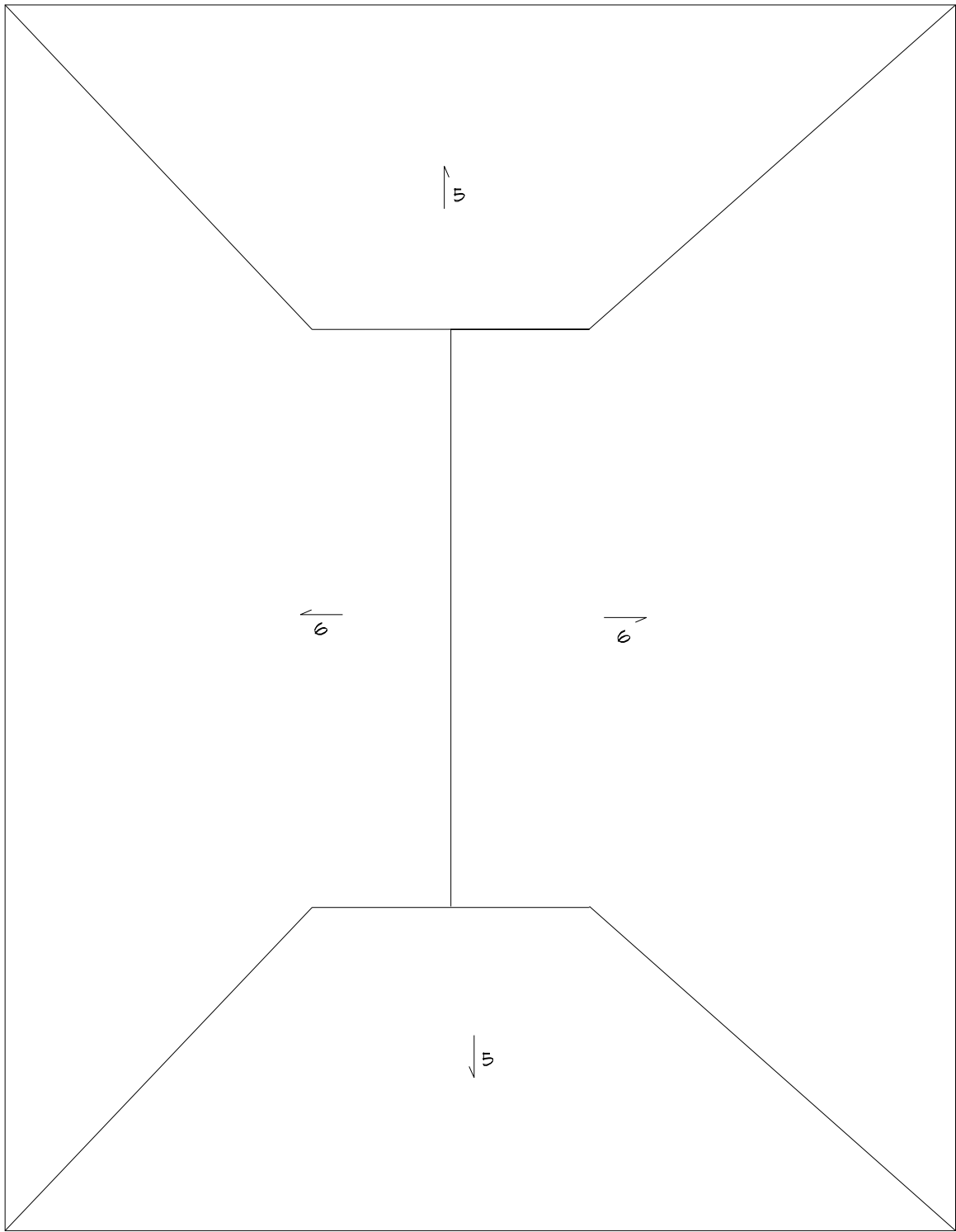
Building: EB034a - Coal Unloading - ()

Total Area: 20,800 sf

A 20,800

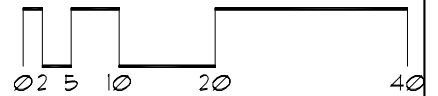


# Roof Corrective Action



## SYMBOLS KEY

→ SLOPE DIRECTION



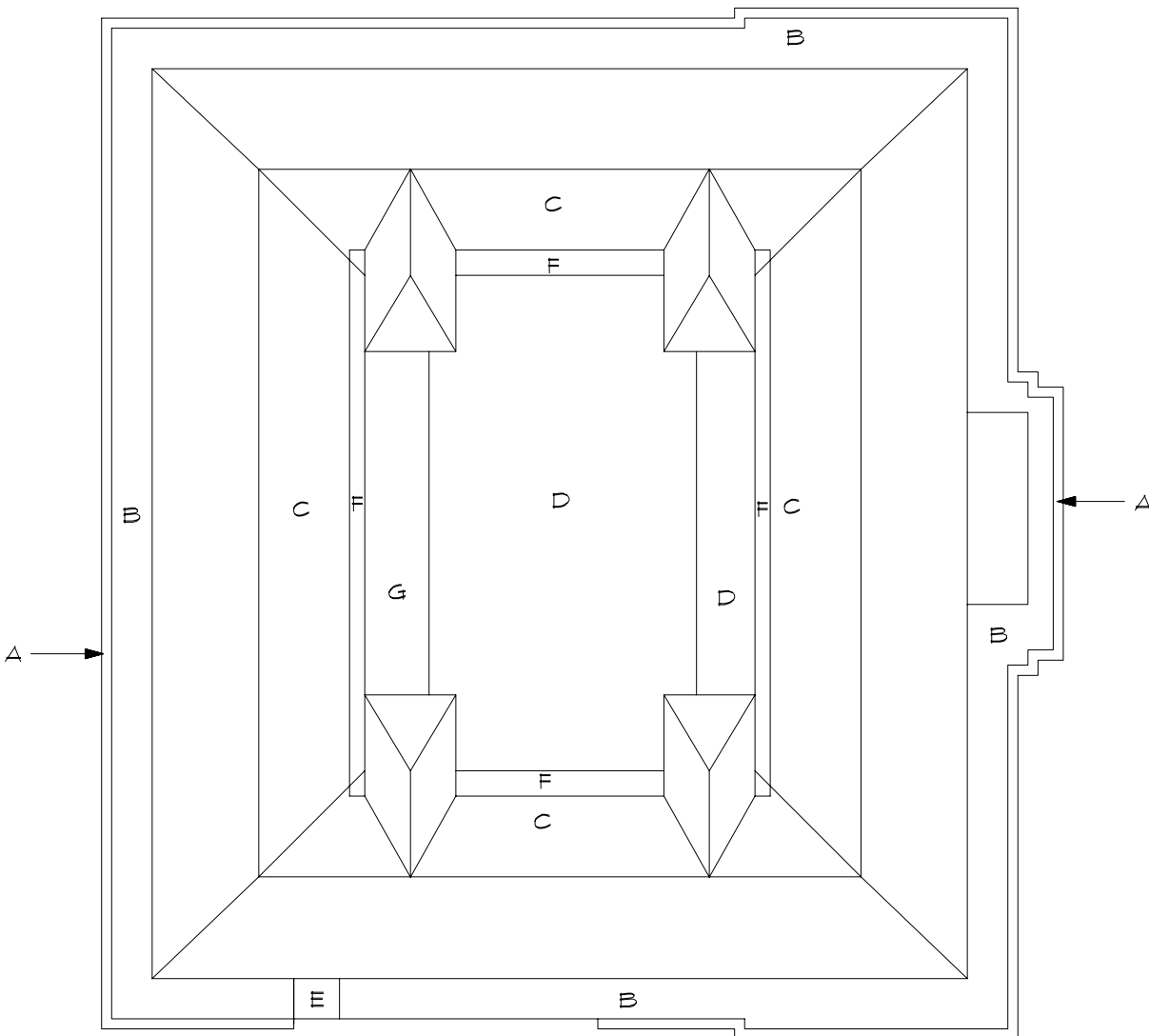
# Roof ID

**Building:** EB035 - Smith Hall - (207 Pleasant Street SE Minneapolis)

**Roof Access:** Room 4305; window in room 206. B=from any lab on 4th floor (key 26m)

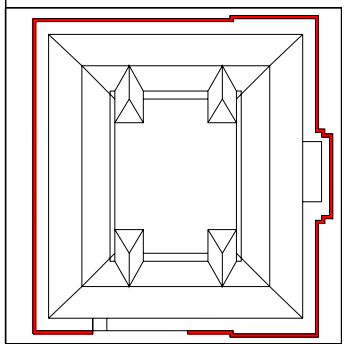
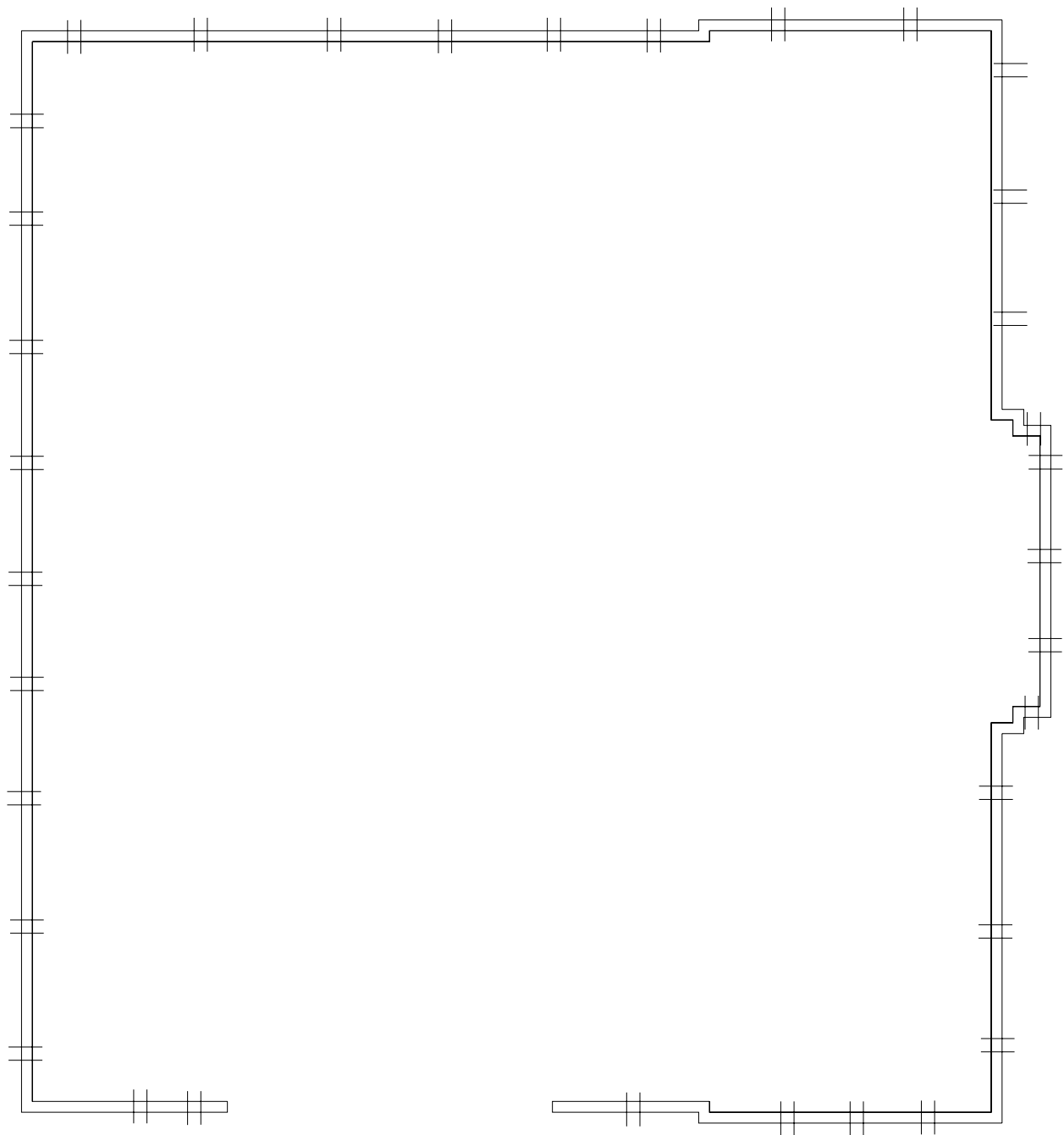
**Total Area:** 41,198 sf

<b>A</b>	<b>1,440</b>	<b>E</b>	<b>72</b>
<b>B</b>	<b>5,866</b>	<b>F</b>	<b>1,192</b>
<b>C</b>	<b>24,288</b>	<b>G</b>	<b>836</b>
<b>D</b>	<b>7,504</b>		

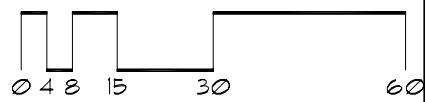




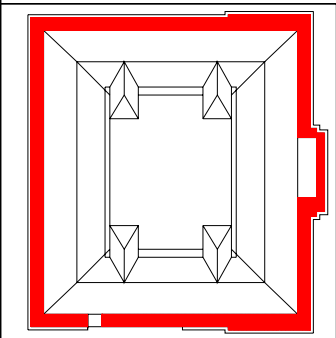
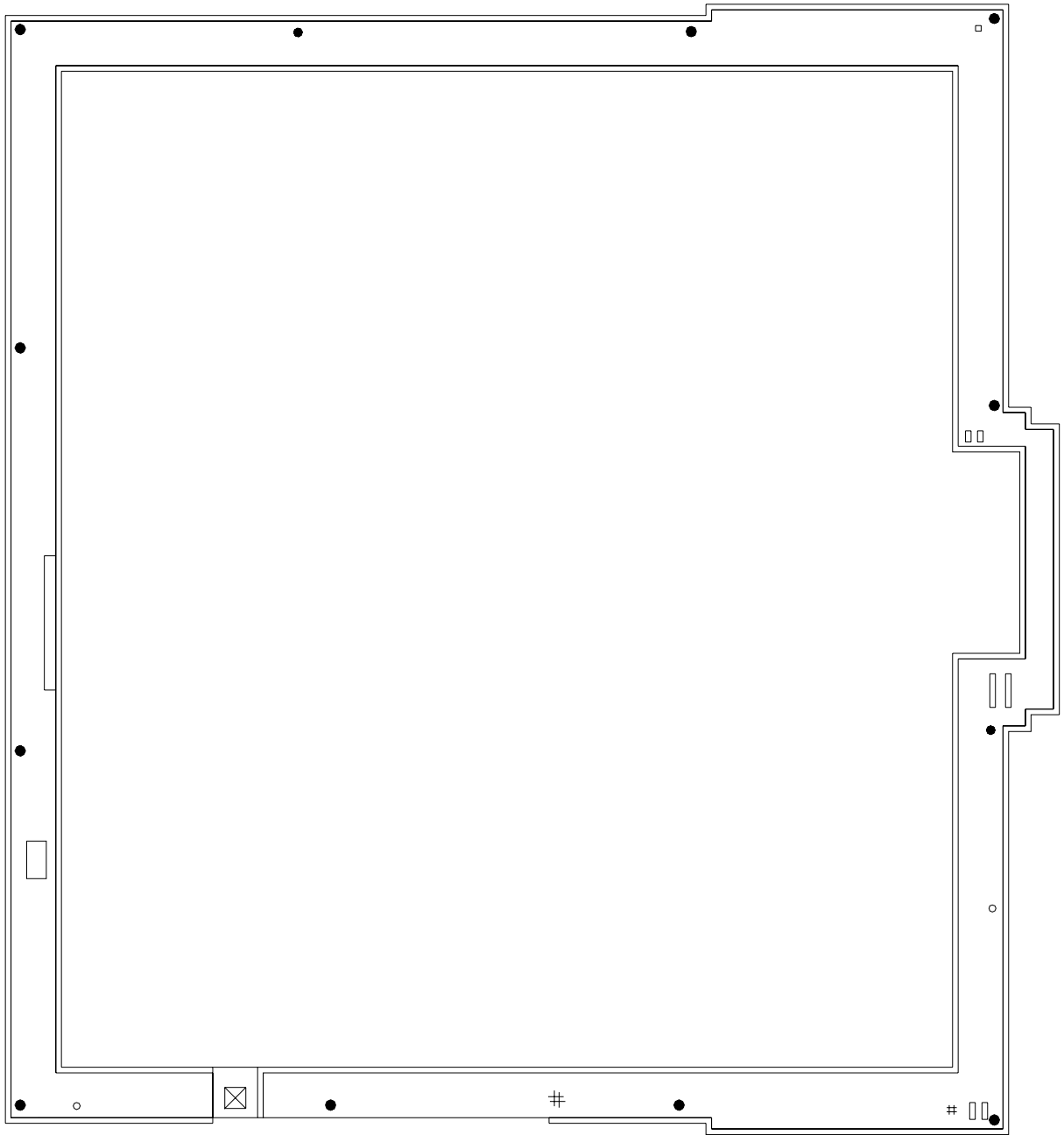
# Roof Corrective Action



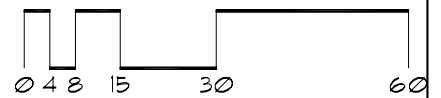
SYMBOLS KEY  
|| SCUPPER



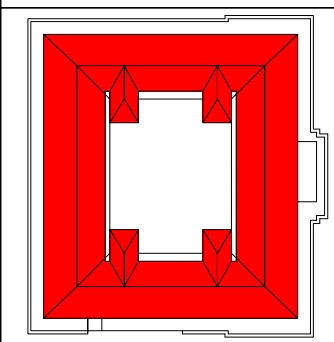
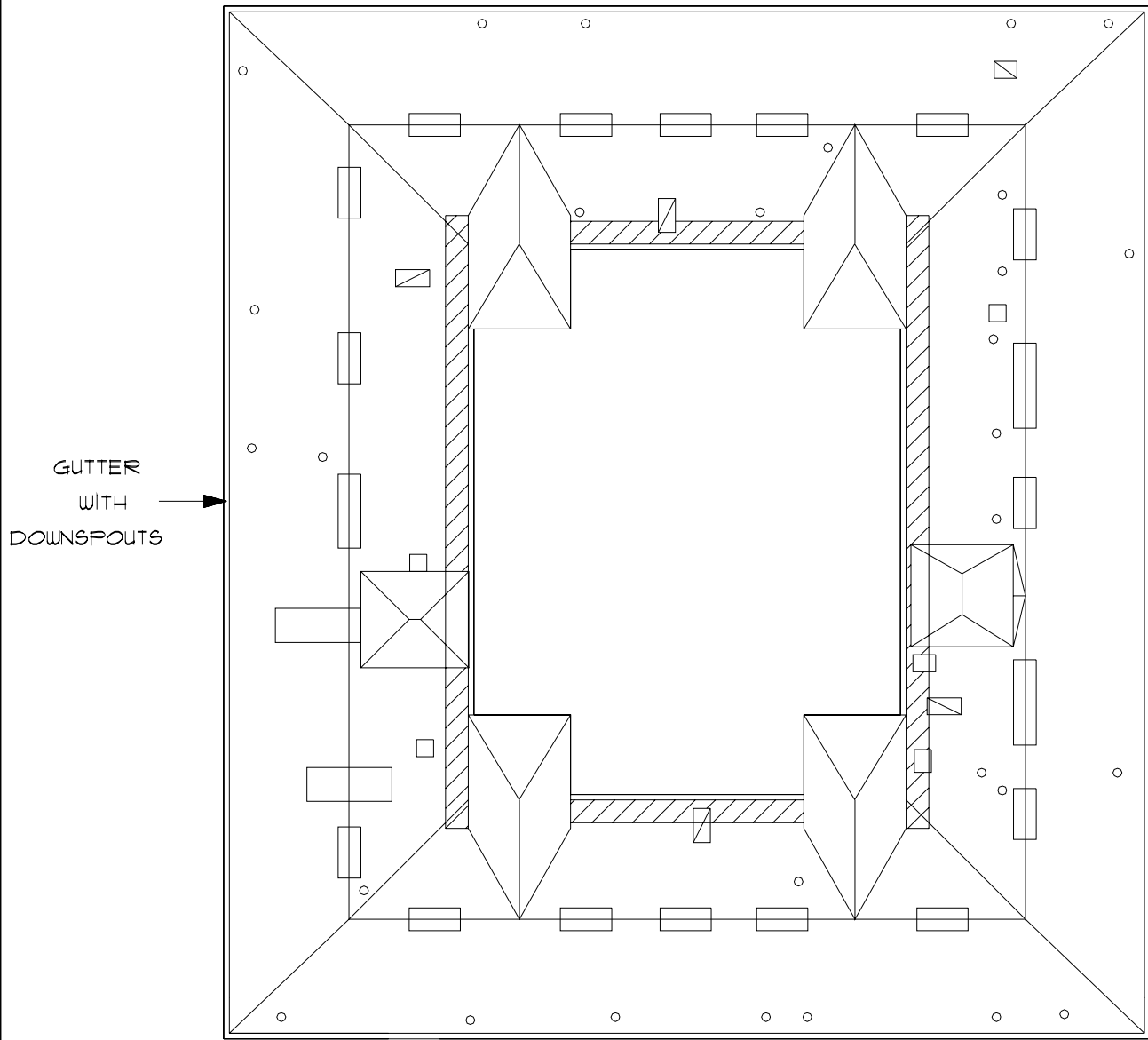
# Roof Corrective Action



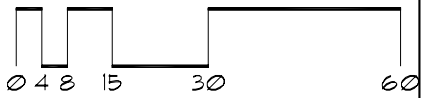
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ≡ PITCH PAN
  - ≡ SLEEPER CURB
  - ⊠ SKYLIGHT



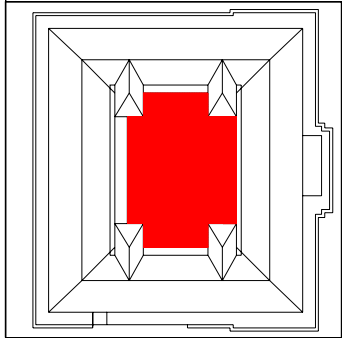
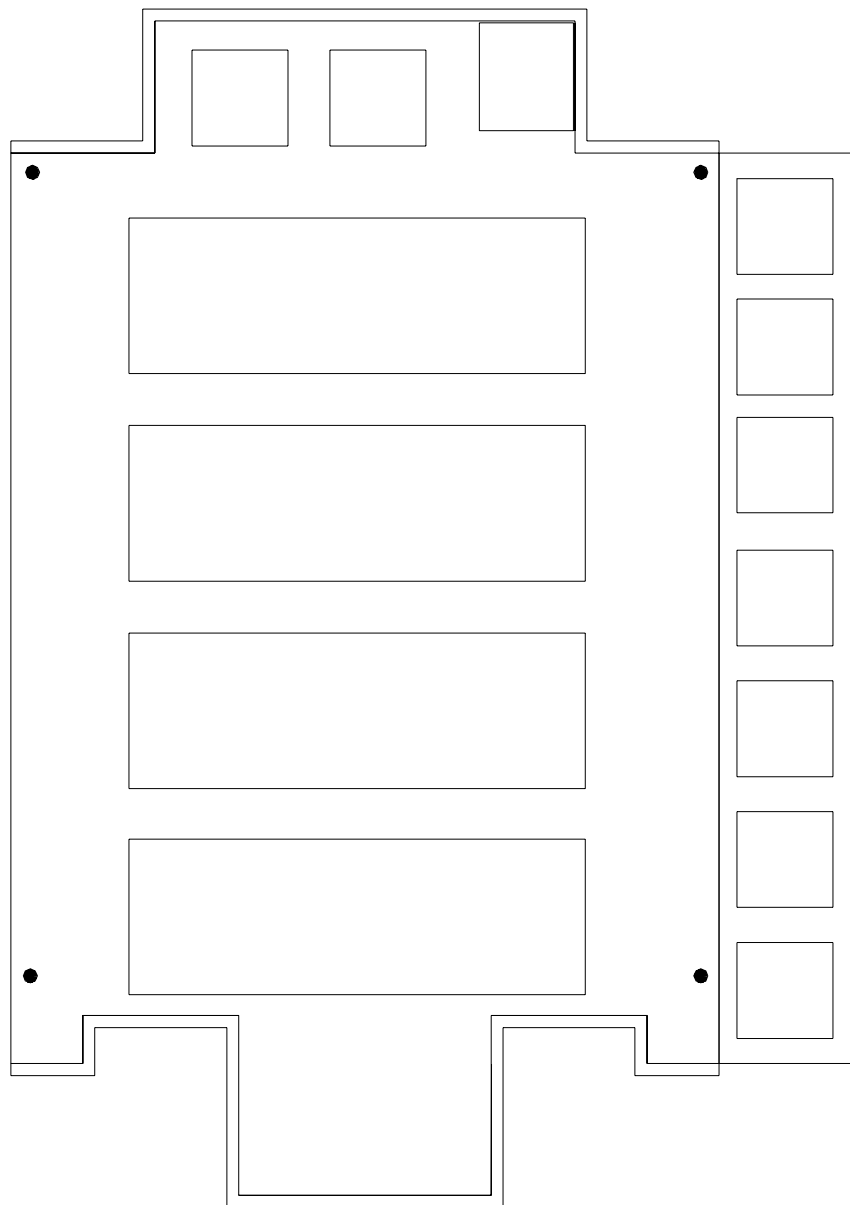
# Roof Corrective Action



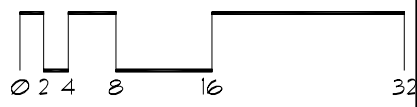
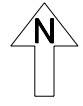
- SYMBOLS KEY**
- ROOF CURB
  - VENT STACK
  - † SCUPPER



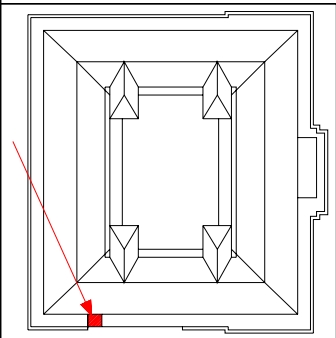
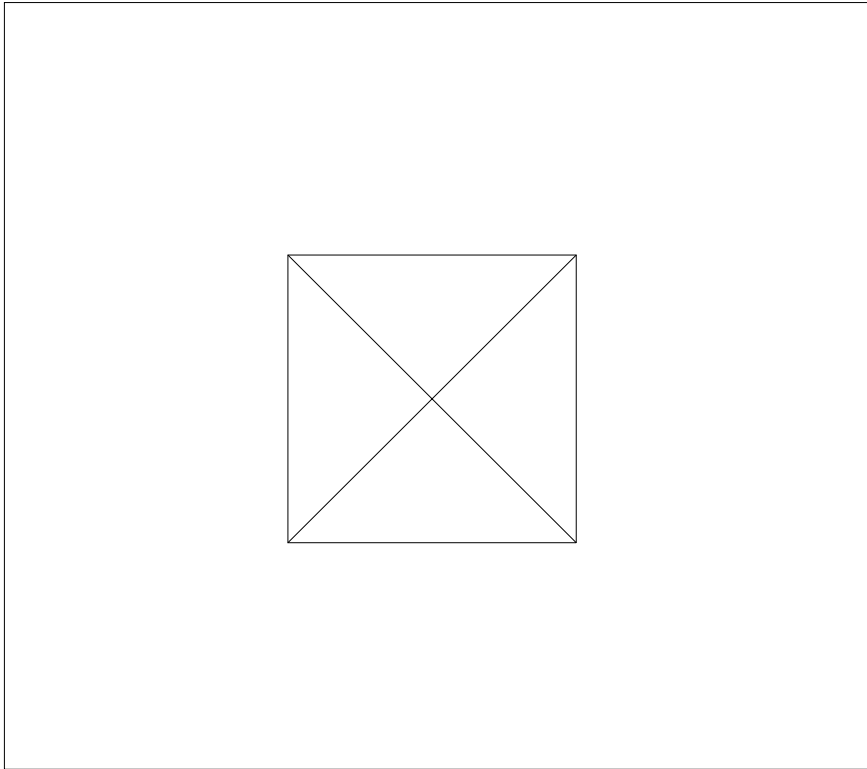
# Roof Corrective Action



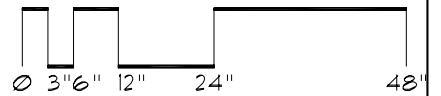
SYMBOLS KEY  
☒ SKYLIGHT  
● ROOF DRAIN



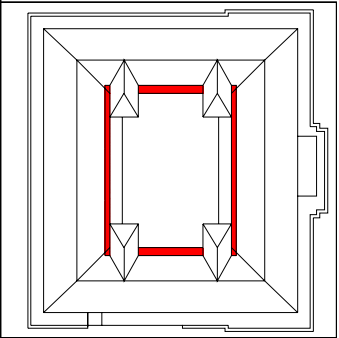
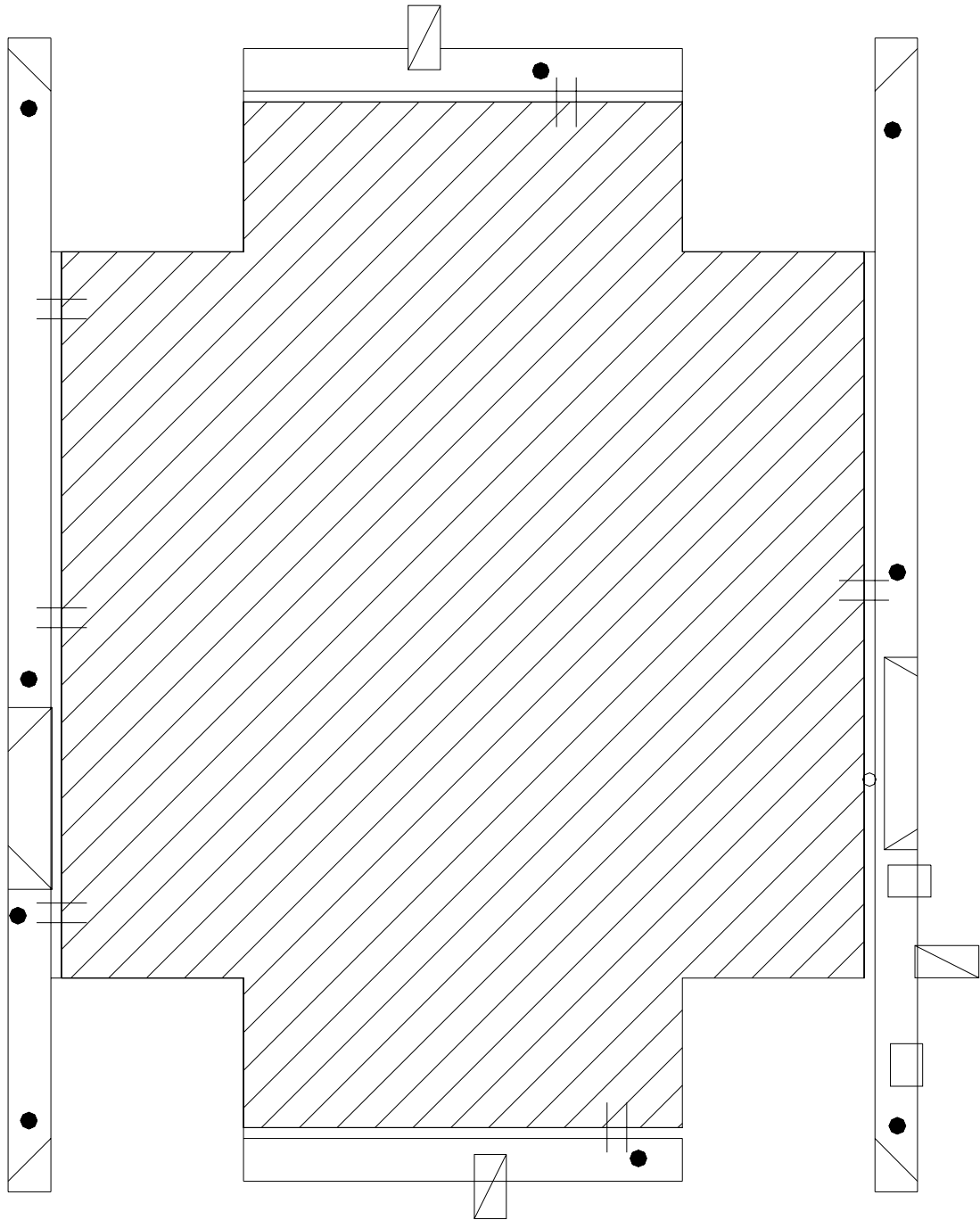
# Roof Corrective Action



SYMBOLS KEY  
| ☒ SKYLIGHT



# Roof Corrective Action

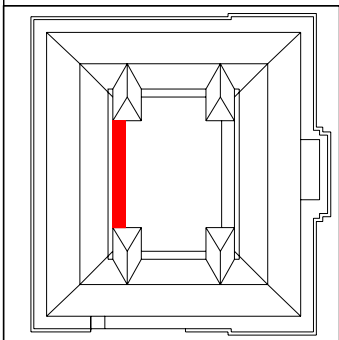
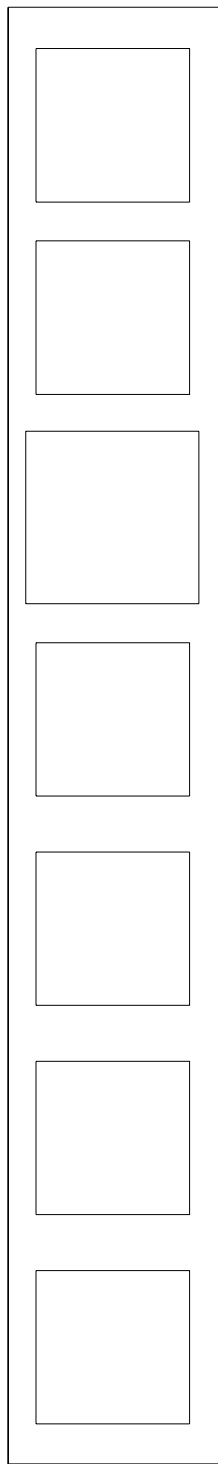


**SYMBOLS KEY**

- ▣ ROOF HATCH
- ROOF DRAIN
- ≡ SCUPPER

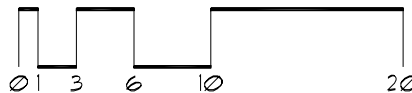


# Roof Corrective Action



## SYMBOLS KEY

- ☒ SKYLIGHT
- ROOF DRAIN



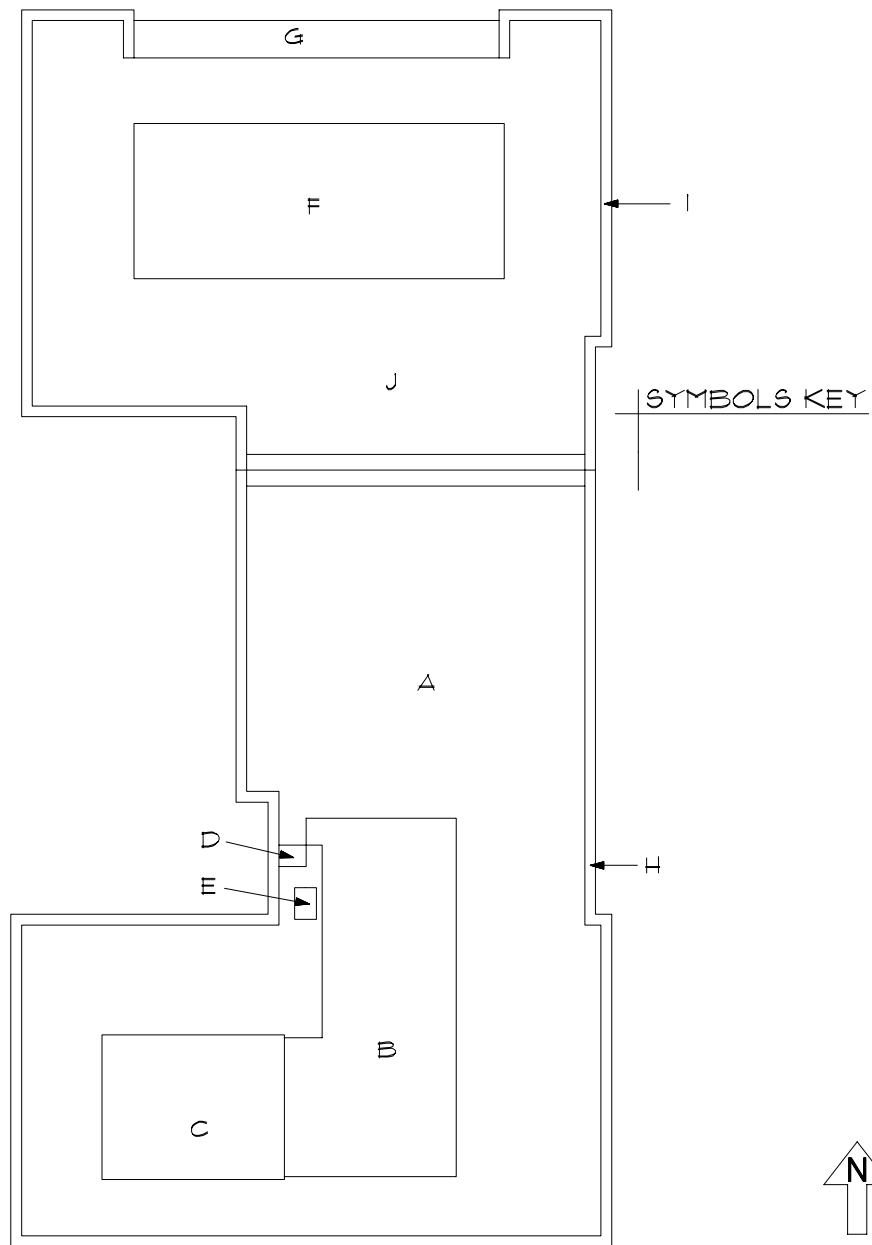
# Roof ID

**Building:** EB037 - Appleby Hall - (128 Pleasant Street SE Minneapolis)

**Roof Access:** Center stairwell, door to penthouse

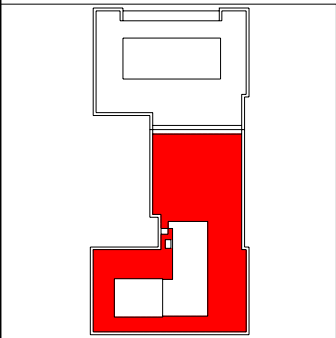
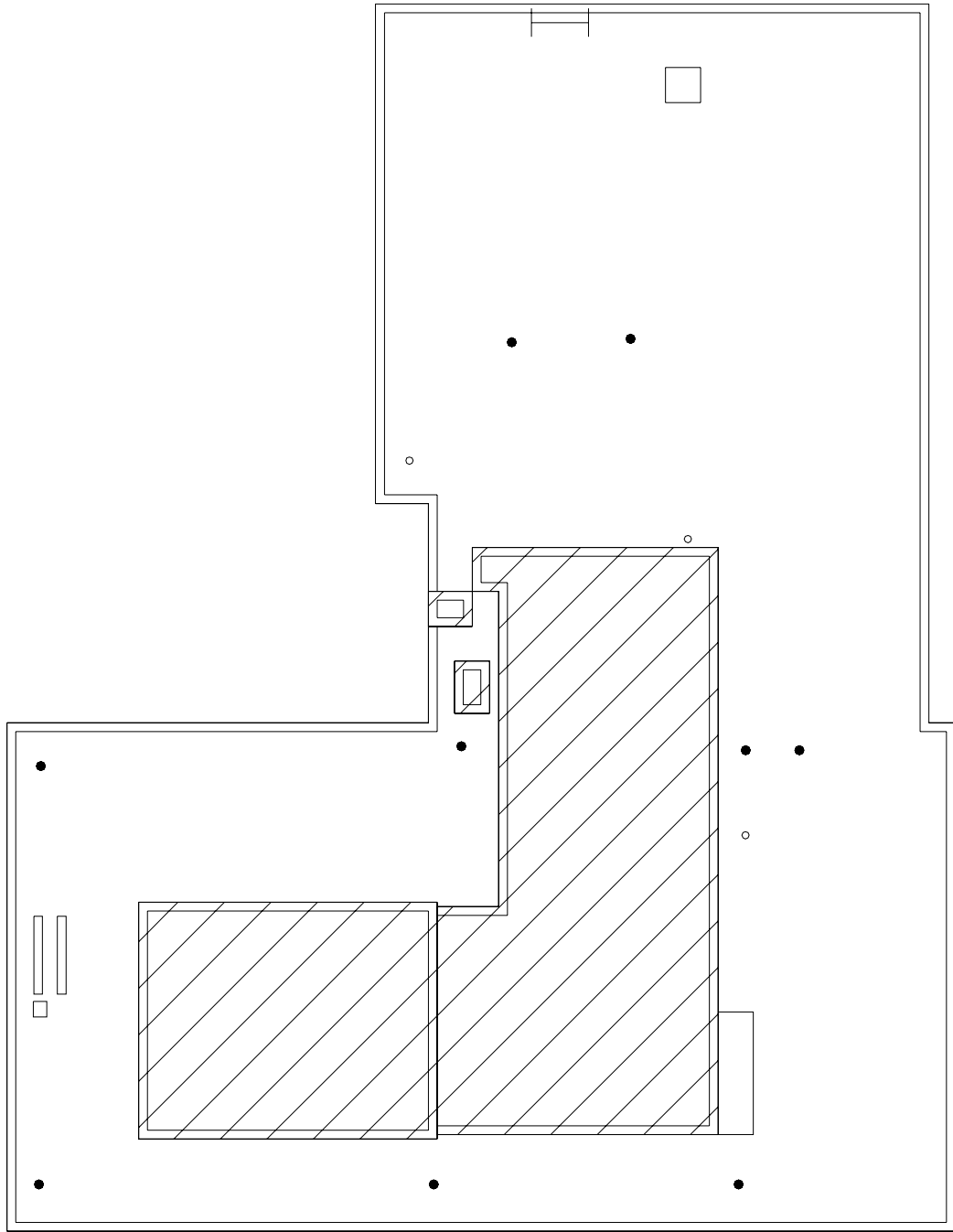
**Total Area:** 20,919 sf

<u>A</u>	<u>8,446</u>	<u>E</u>	<u>24</u>	<u>I</u>	<u>534</u>
<u>B</u>	<u>1,836</u>	<u>F</u>	<u>2,100</u>	<u>J</u>	<u>5,655</u>
<u>C</u>	<u>918</u>	<u>G</u>	<u>476</u>		
<u>D</u>	<u>20</u>	<u>H</u>	<u>910</u>		





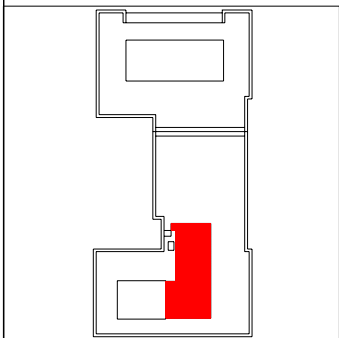
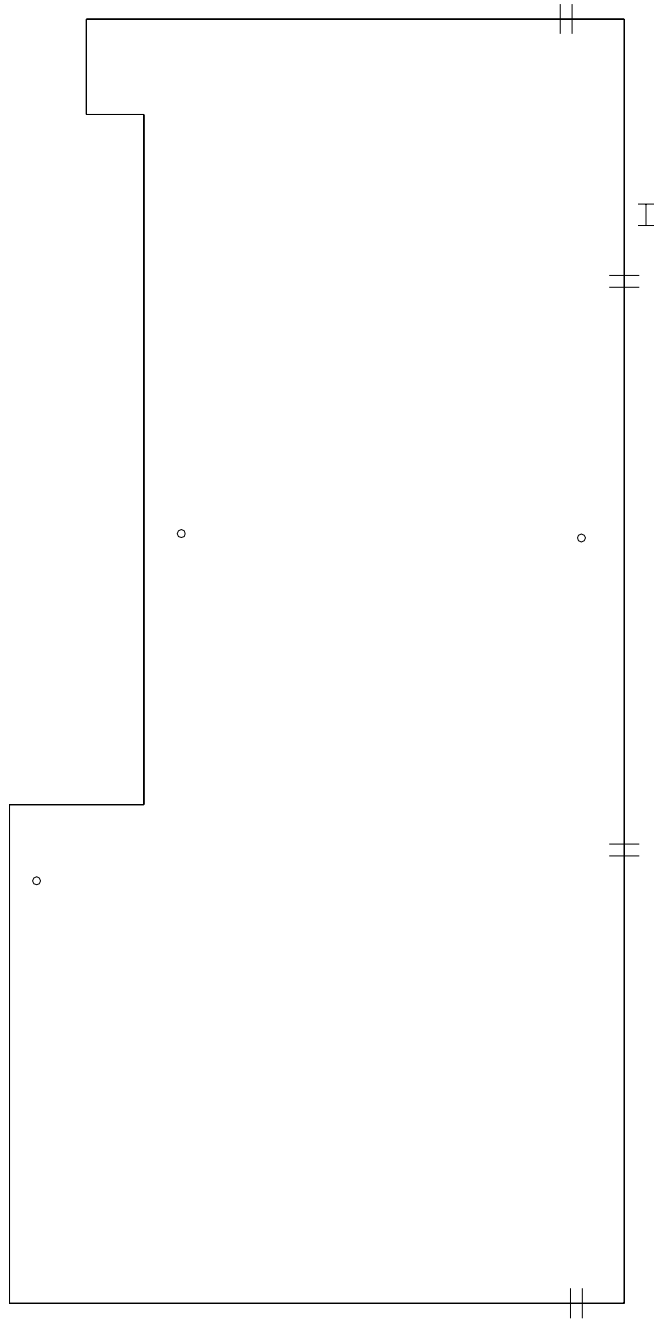
# Roof Corrective Action



- SYMBOLS KEY**
- VENT STACK
  - ROOF DRAIN
  - ROOF CURB
  - I LADDER
  - ⊕ DEFECT-NO REPAIR
  - ⊖ DEFECT-REPAIR

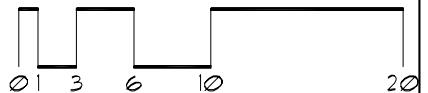


# Roof Corrective Action

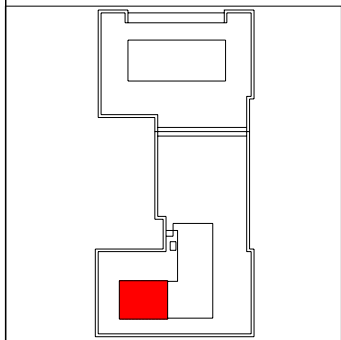
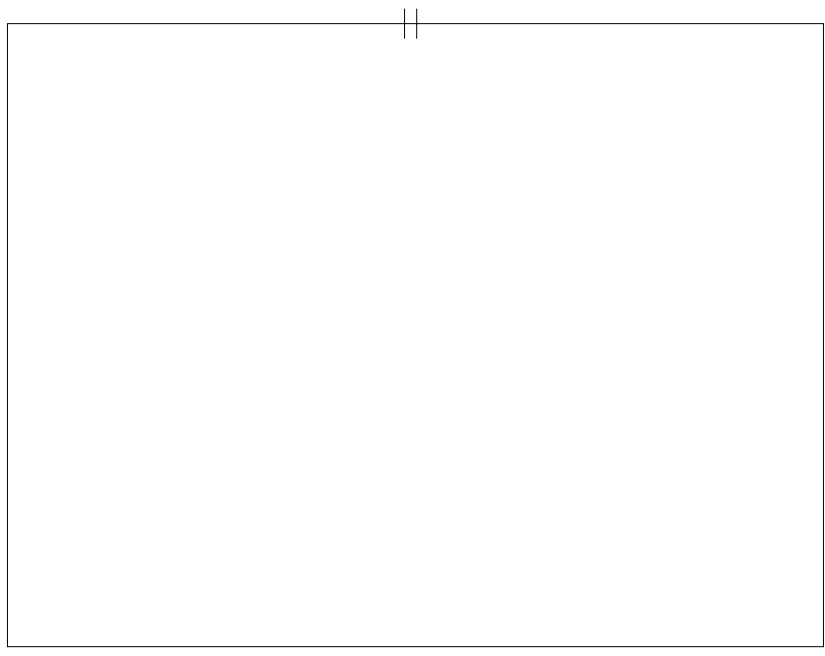


## SYMBOLS KEY

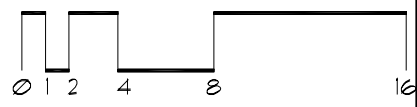
- || SCUPPER
- VENT STACK
- | I LADDER



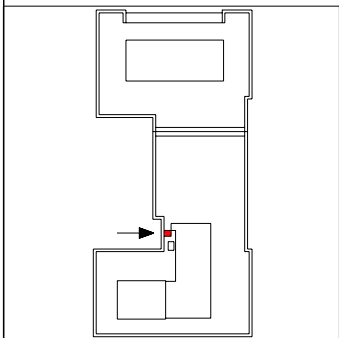
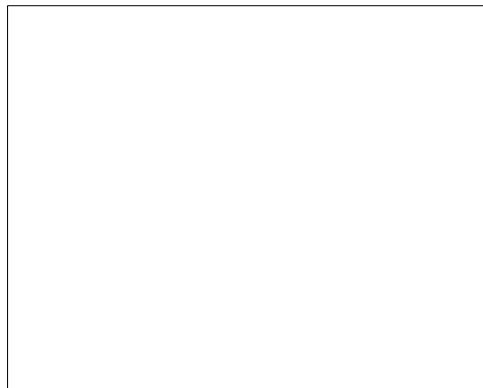
# Roof Corrective Action



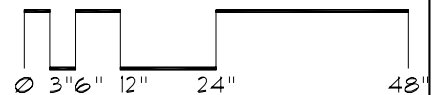
SYMBOLS KEY  
|| SCUPPER  
| DEFECT-NO REPAIR



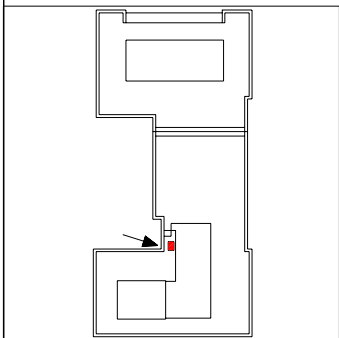
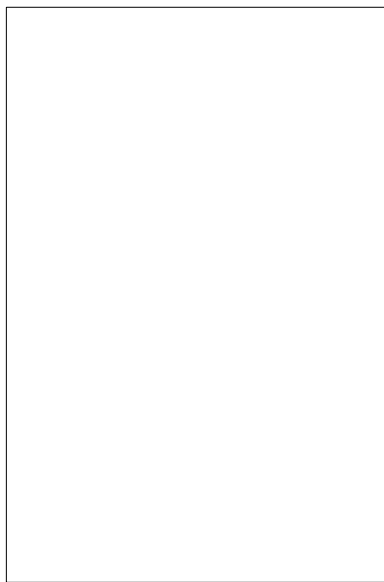
# Roof Corrective Action



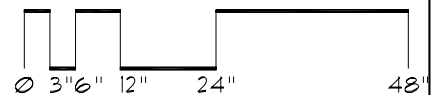
SYMBOLS KEY



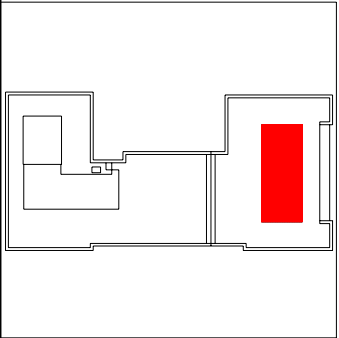
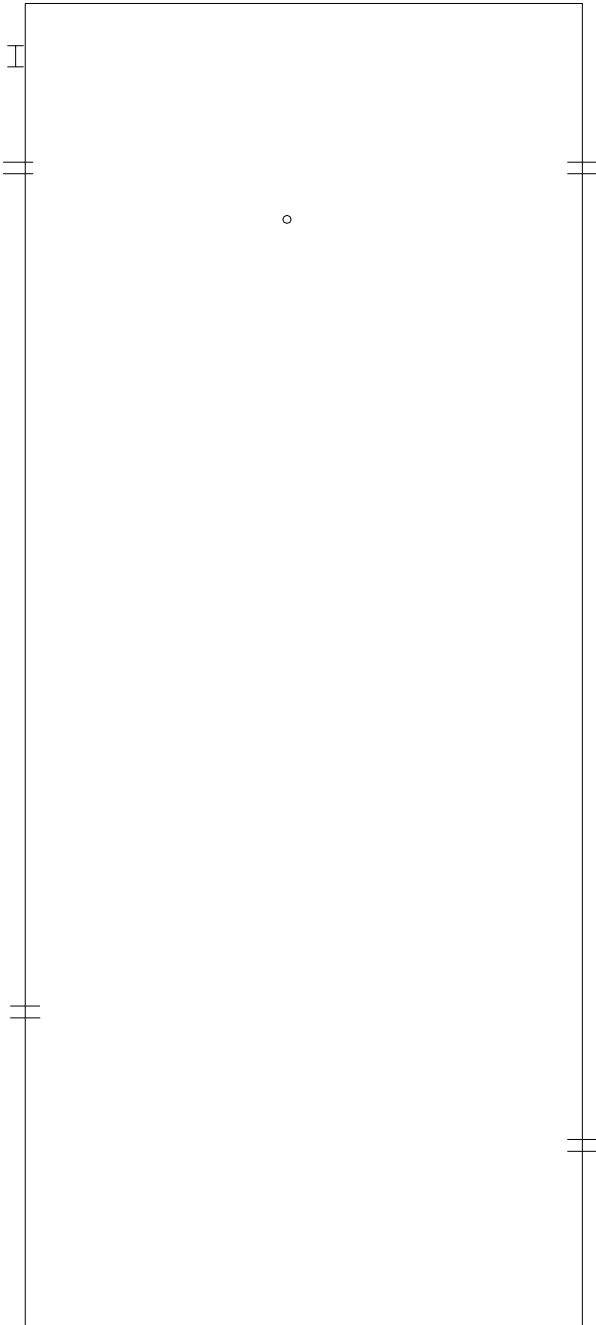
# Roof Corrective Action



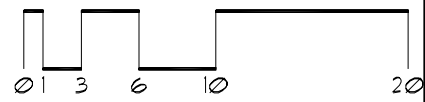
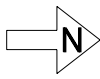
SYMBOLS KEY



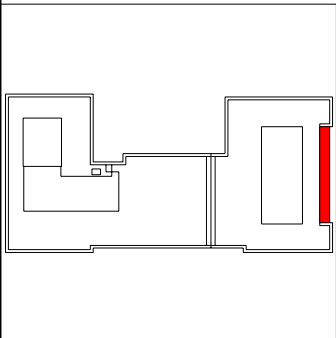
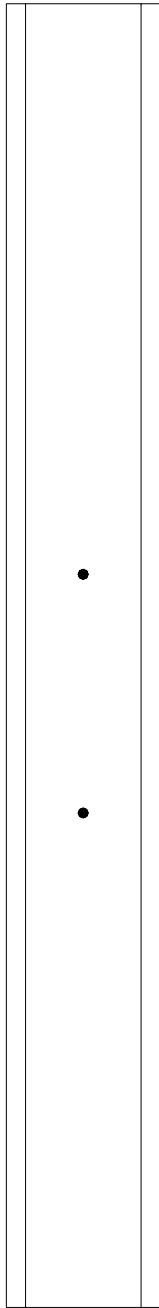
# Roof Corrective Action



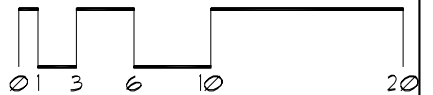
SYMBOLS KEY  
○ VENT STACK  
|| SCUPPER



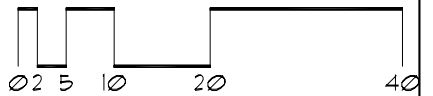
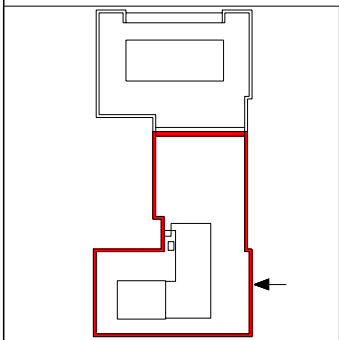
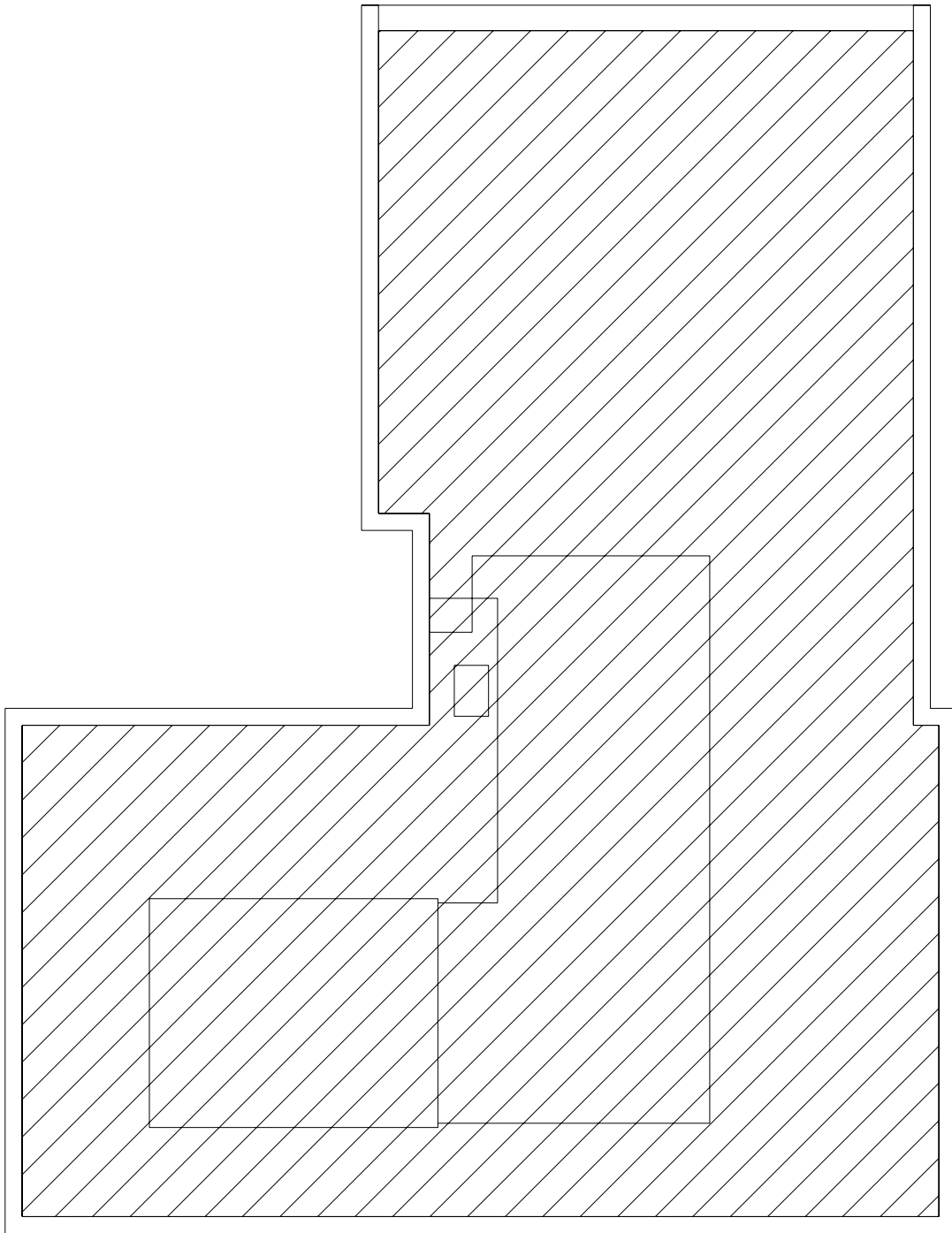
# Roof Corrective Action



SYMBOLS KEY  
● ROOF DRAIN

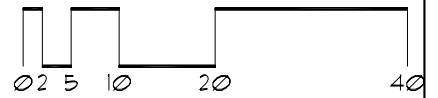
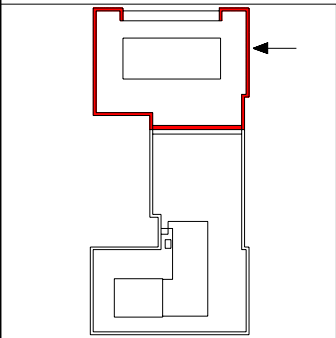
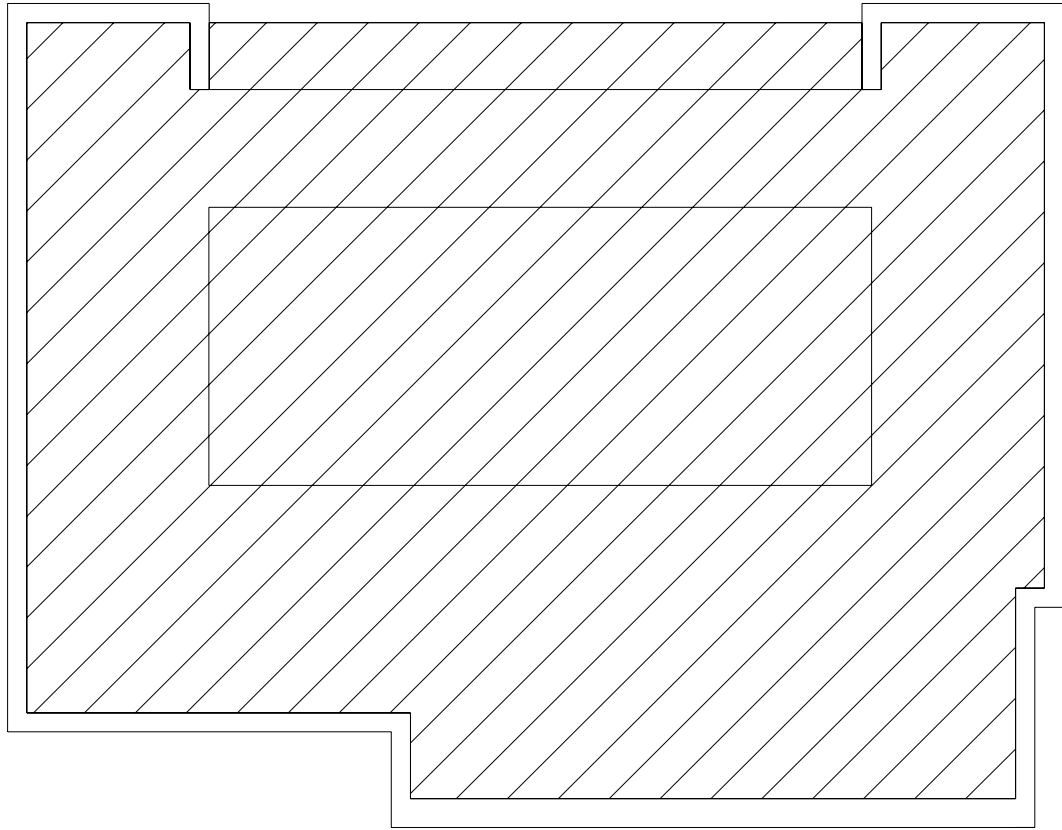


# Roof Corrective Action

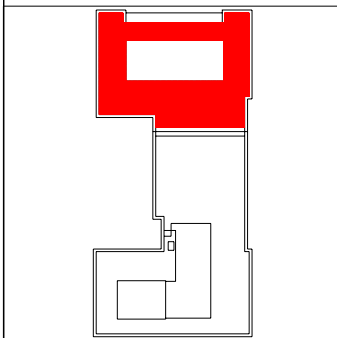
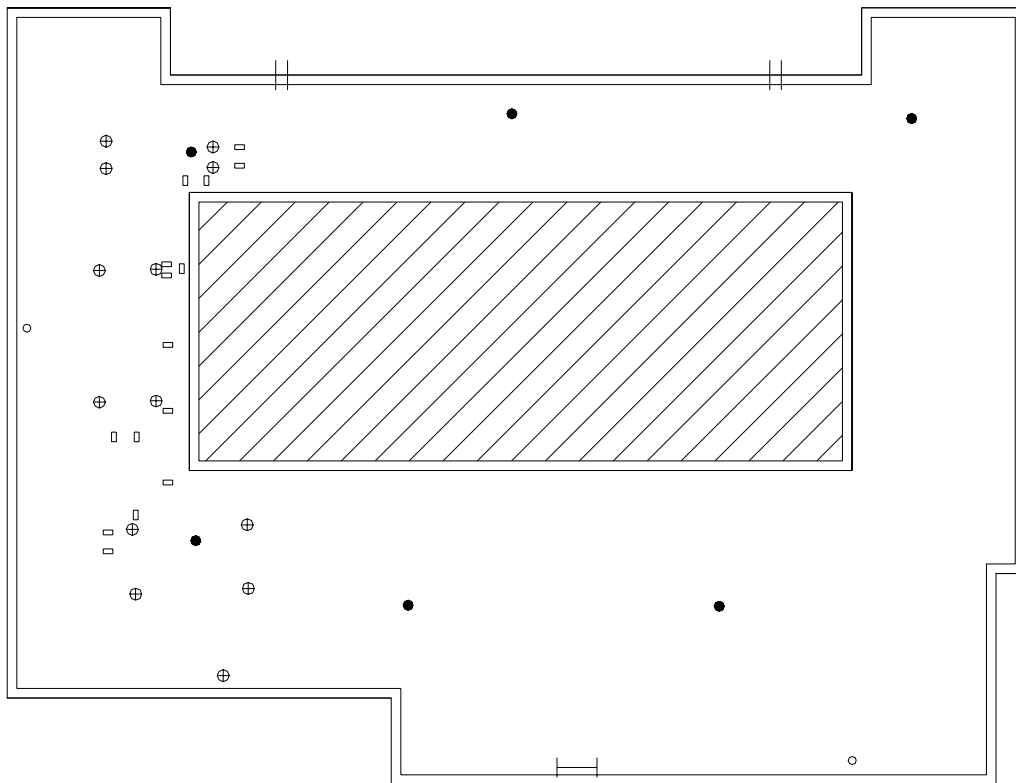




# Roof Corrective Action

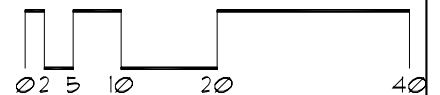


# Roof Corrective Action



### SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ⋈ SCUPPER
- I LADDER
- ⊕ FLASHED PEN.
- Ⓢ DEFECT-NO REPAIR



# Roof ID

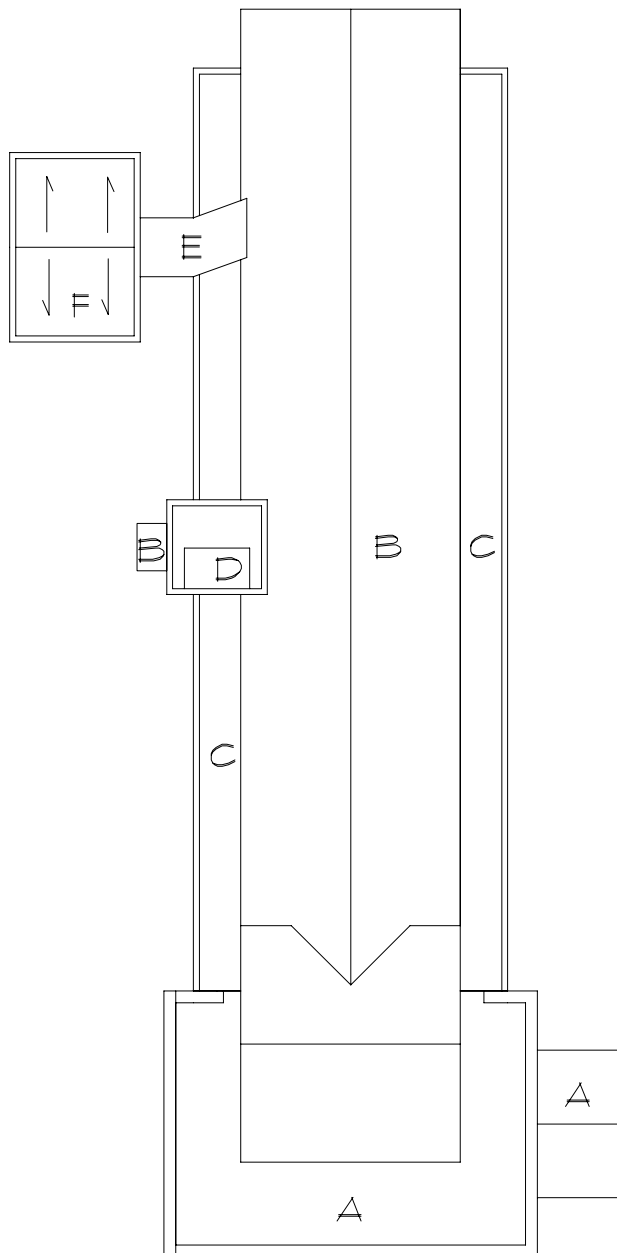
**Building:** EB040 - Scott Hall - (72 Pleasant Street SE Minneapolis)

**Roof Access:** Parapet access through 328. Get key at zone office in basement of Scott Hall.

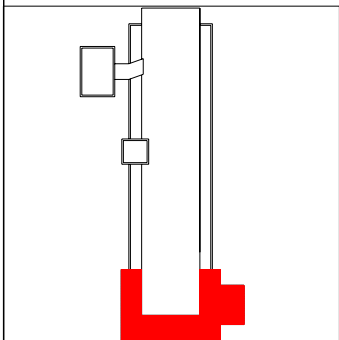
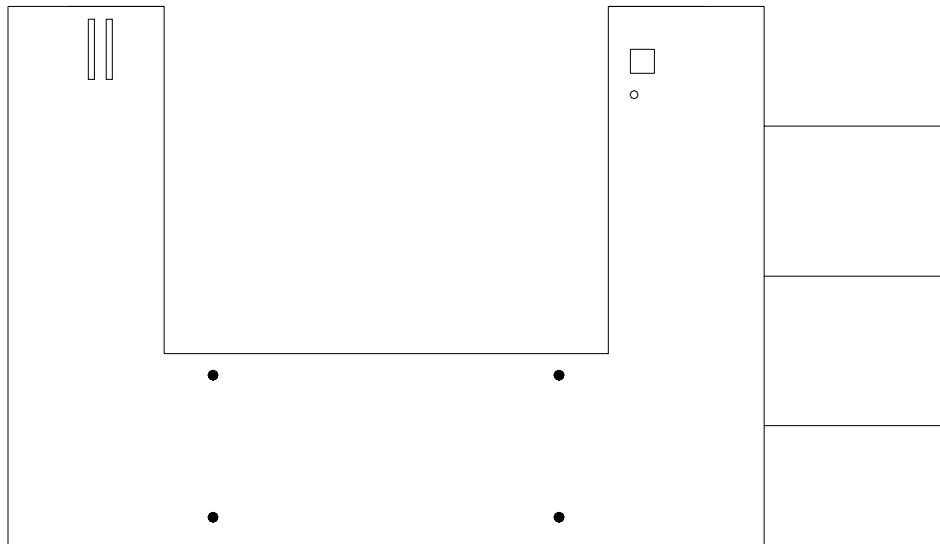
**Total Area:** 12,939 sf

<b>A</b>	<b>1,762</b>	<b>E</b>	<b>190</b>
<b>B</b>	<b>7,723</b>	<b>F</b>	<b>704</b>
<b>C</b>	<b>2,288</b>		
<b>D</b>	<b>272</b>		

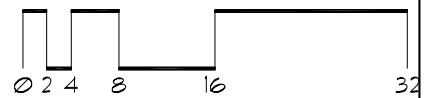
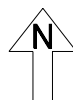
## SYMBOLS KEY



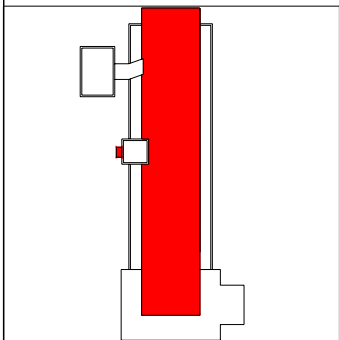
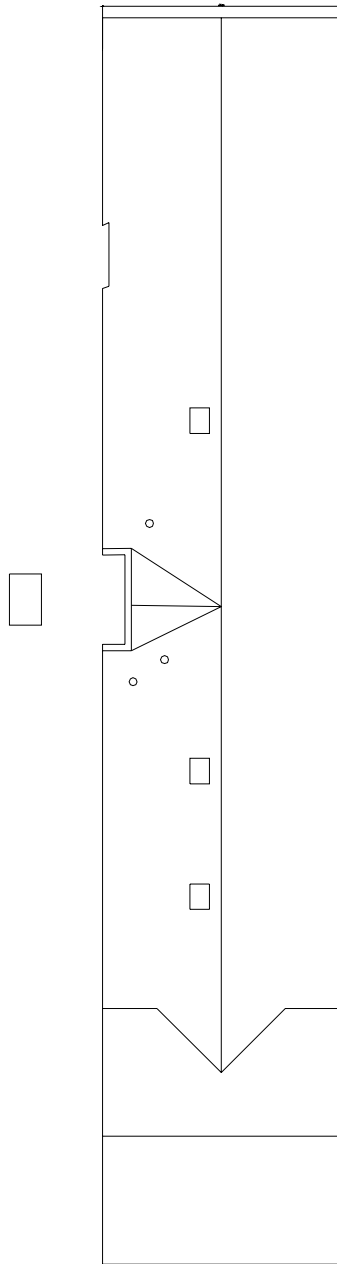
# Roof Corrective Action



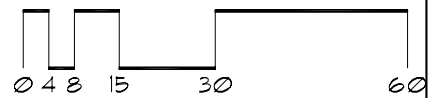
SYMBOLS KEY  
○ VENT STACK  
● ROOF DRAIN  
□ ROOF CURB



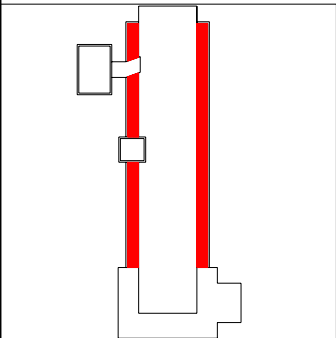
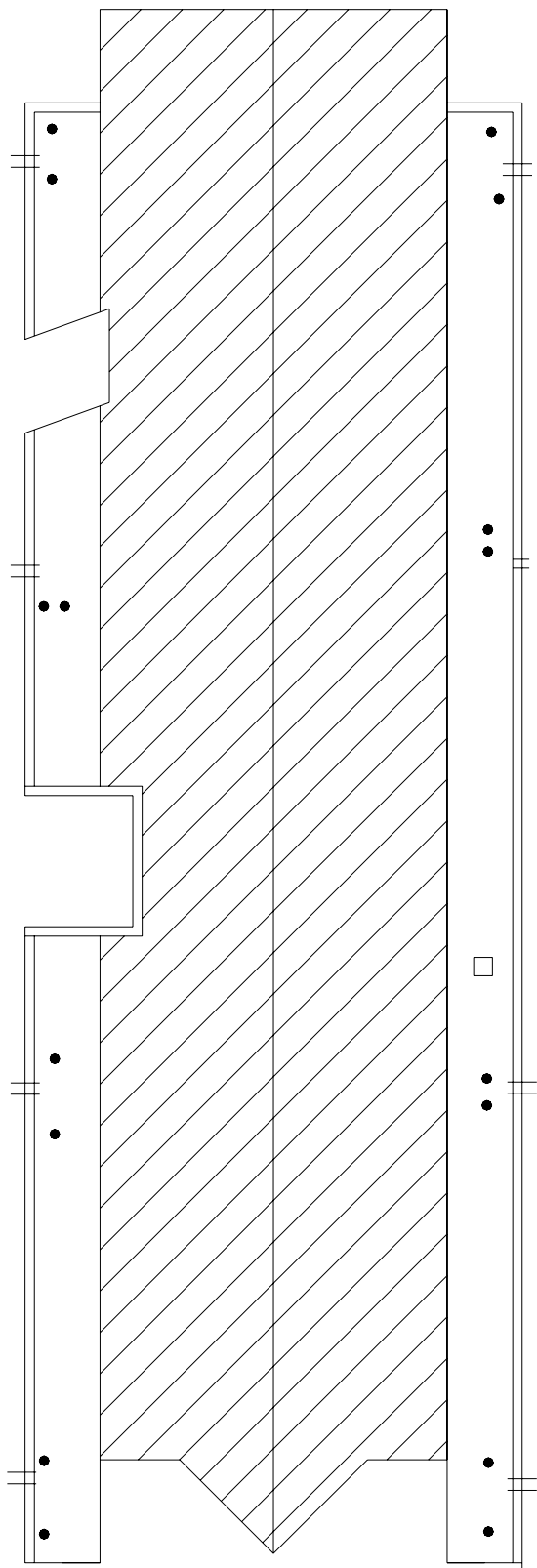
# Roof Corrective Action



**SYMBOLS KEY**  
○ VENT STACK  
□ ROOF CURB  
DEFECT-REPAIR

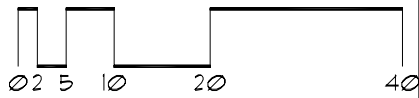


# Roof Corrective Action

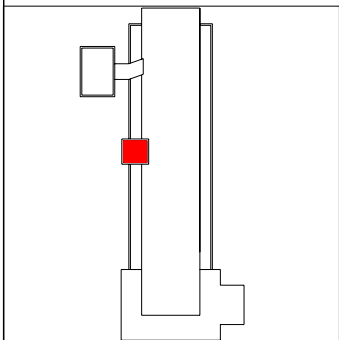
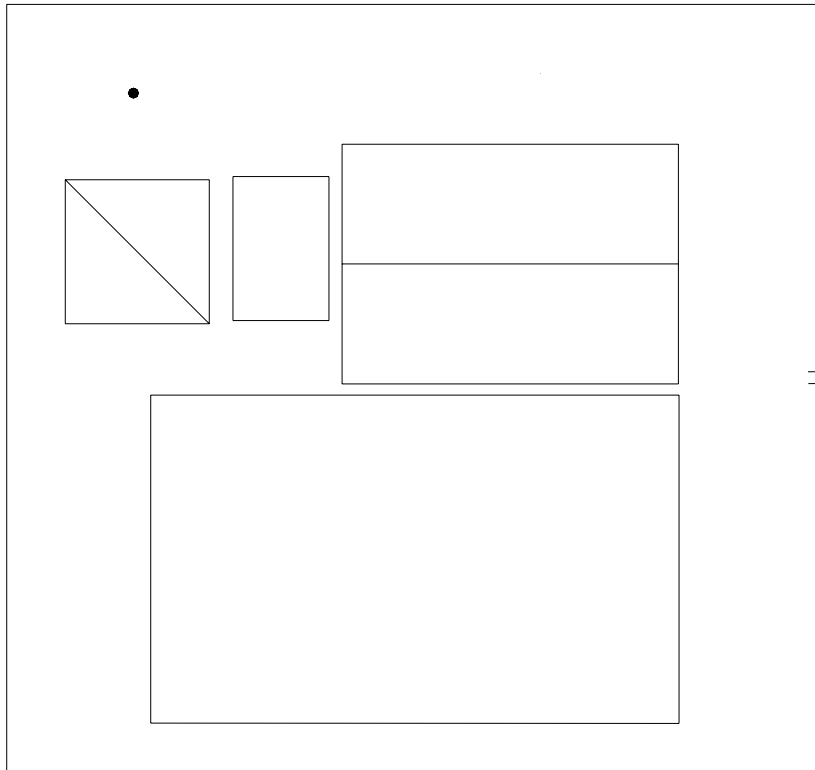


**SYMBOLS KEY**

	SCUPPER
●	ROOF DRAIN
□	ROOF CURB

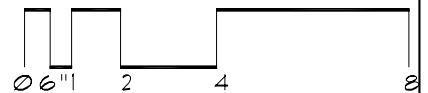


# Roof Corrective Action

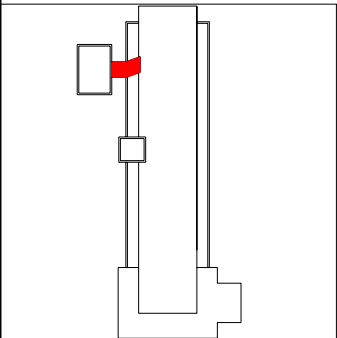
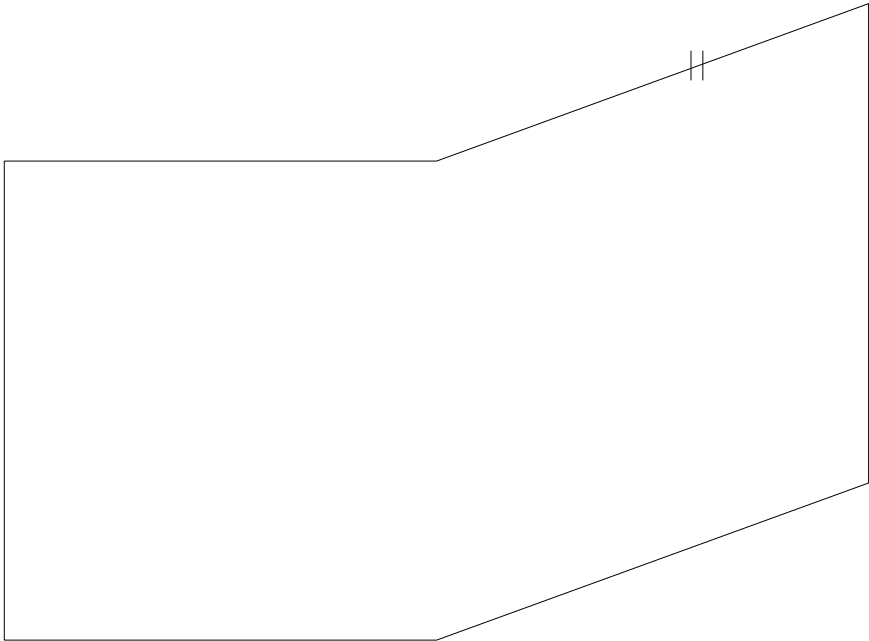


## SYMBOLS KEY

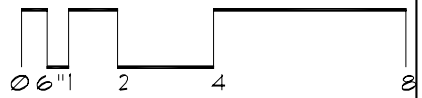
- † SCUPPER
- ROOF DRAIN
- ◻ ROOFHATCH
- ◻ ROOF CURB



# Roof Corrective Action

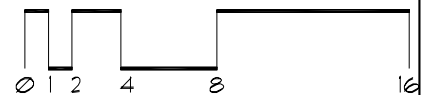
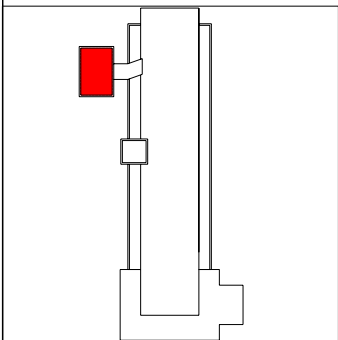
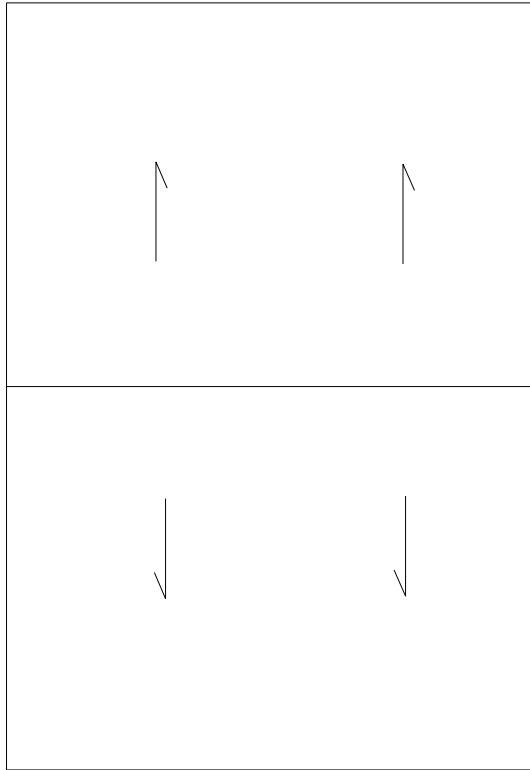


SYMBOLS KEY  
|| SCUPPER





# Roof Corrective Action

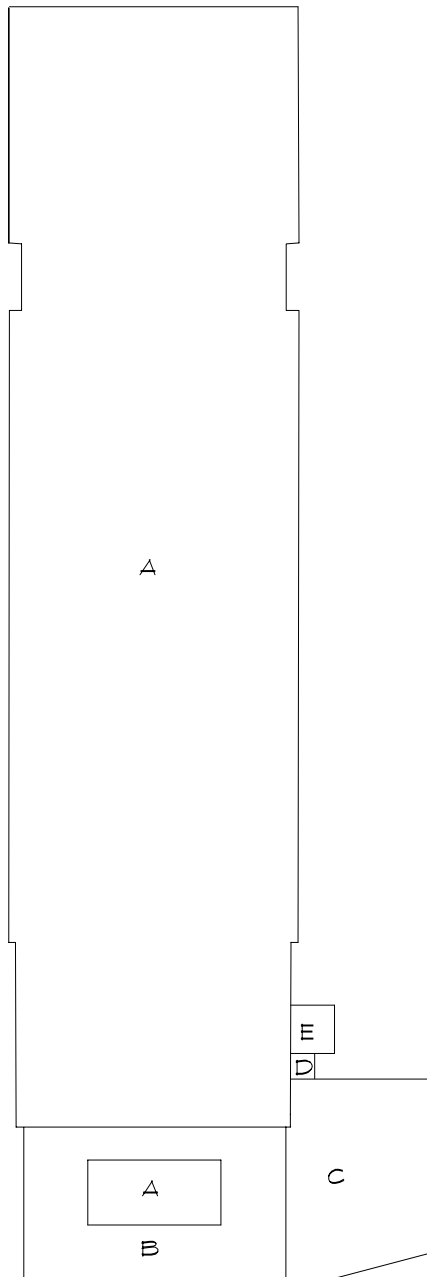


# Roof ID

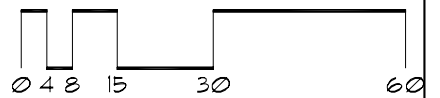
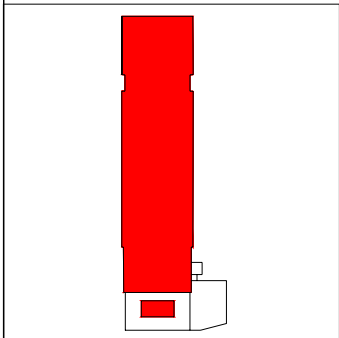
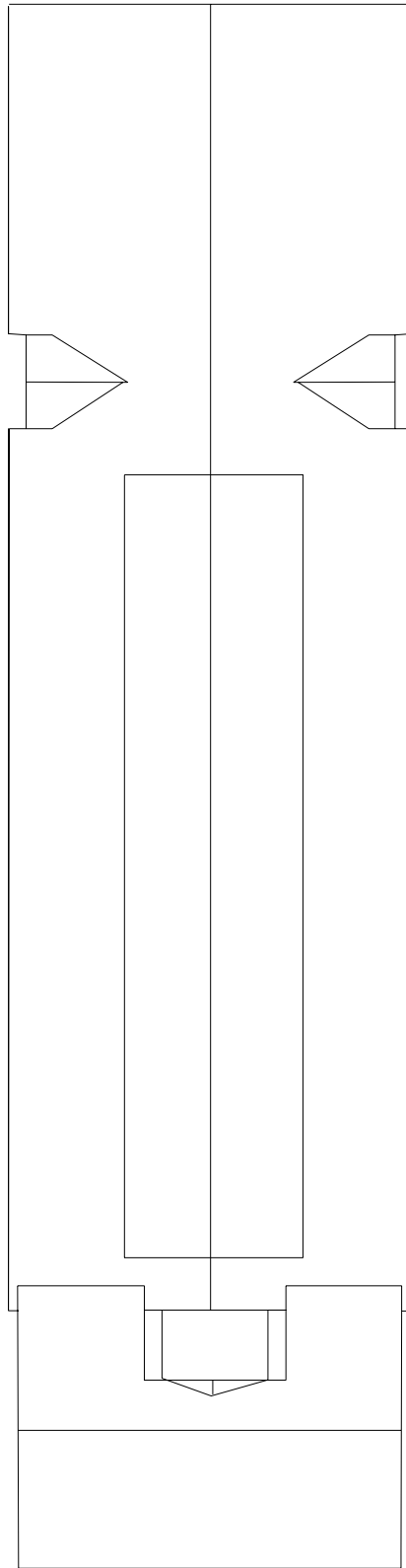
Building: EB041 - Educational Sciences - ()

Total Area: 25,789 sf

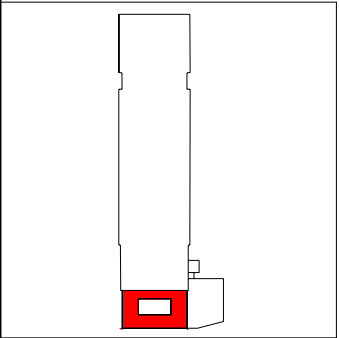
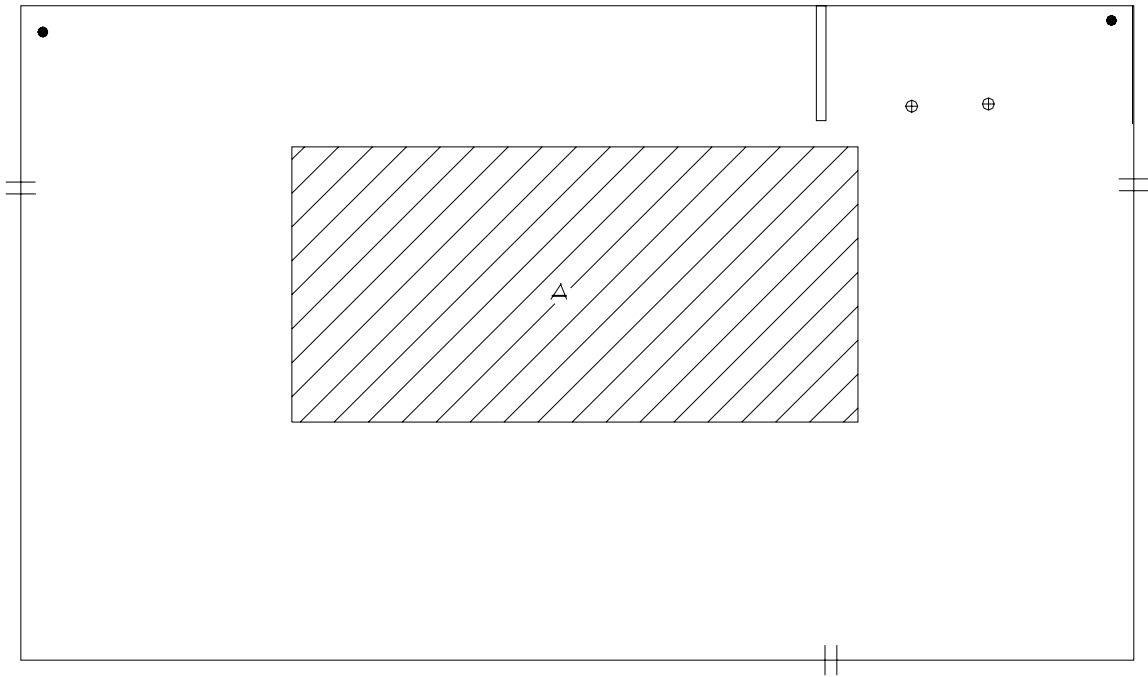
<u>A</u>	<u>15,900</u>	<u>E</u>	<u>105</u>
<u>B</u>	<u>8,367</u>		
<u>C</u>	<u>1,387</u>		
<u>D</u>	<u>30</u>		



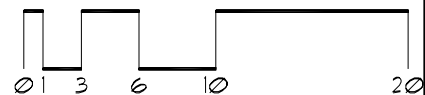
# Roof Corrective Action



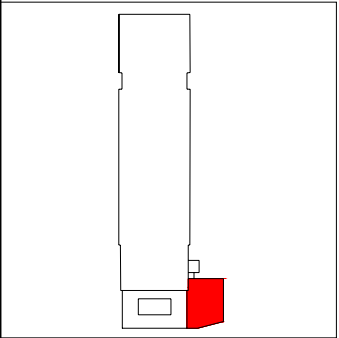
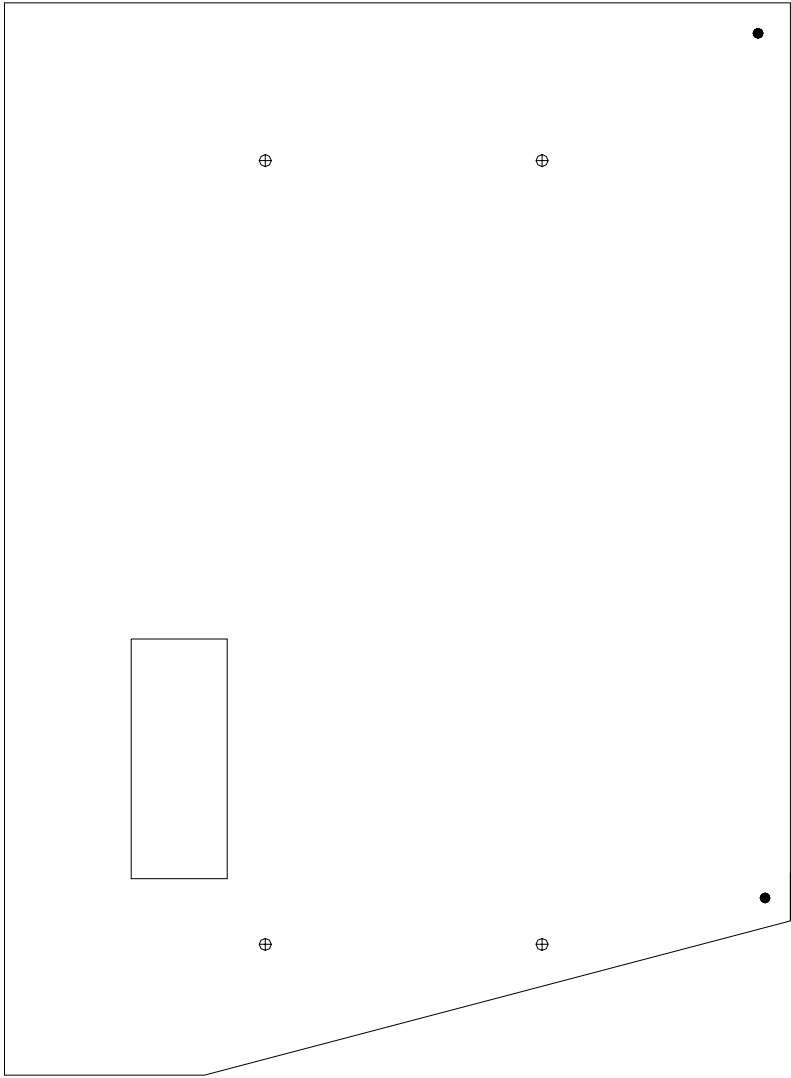
# Roof Corrective Action



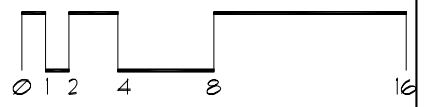
- SYMBOLS KEY**
- ROOF CURB OR VENT
  - ROOF DRAIN
  - † SCUPPER
  - ⊕ FLASHED PEN.
  - Ⓢ DEFECT-REPAIR



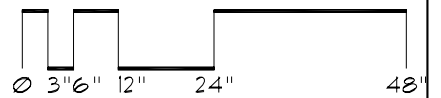
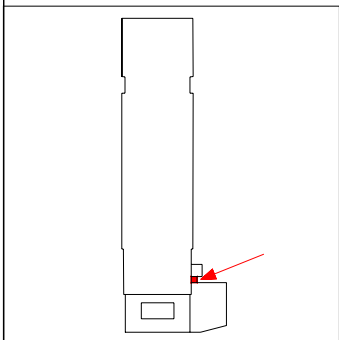
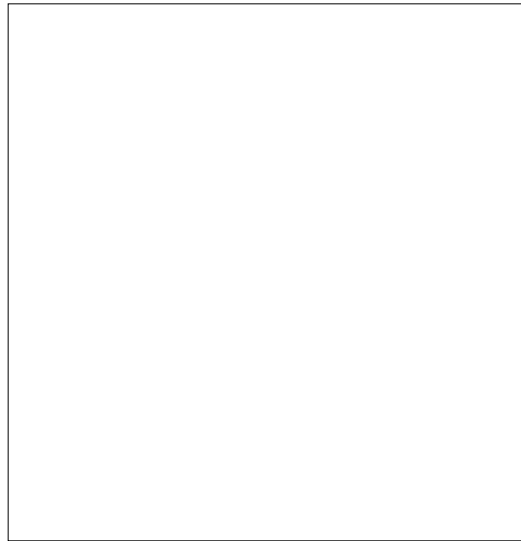
# Roof Corrective Action



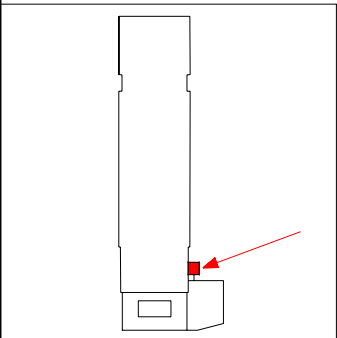
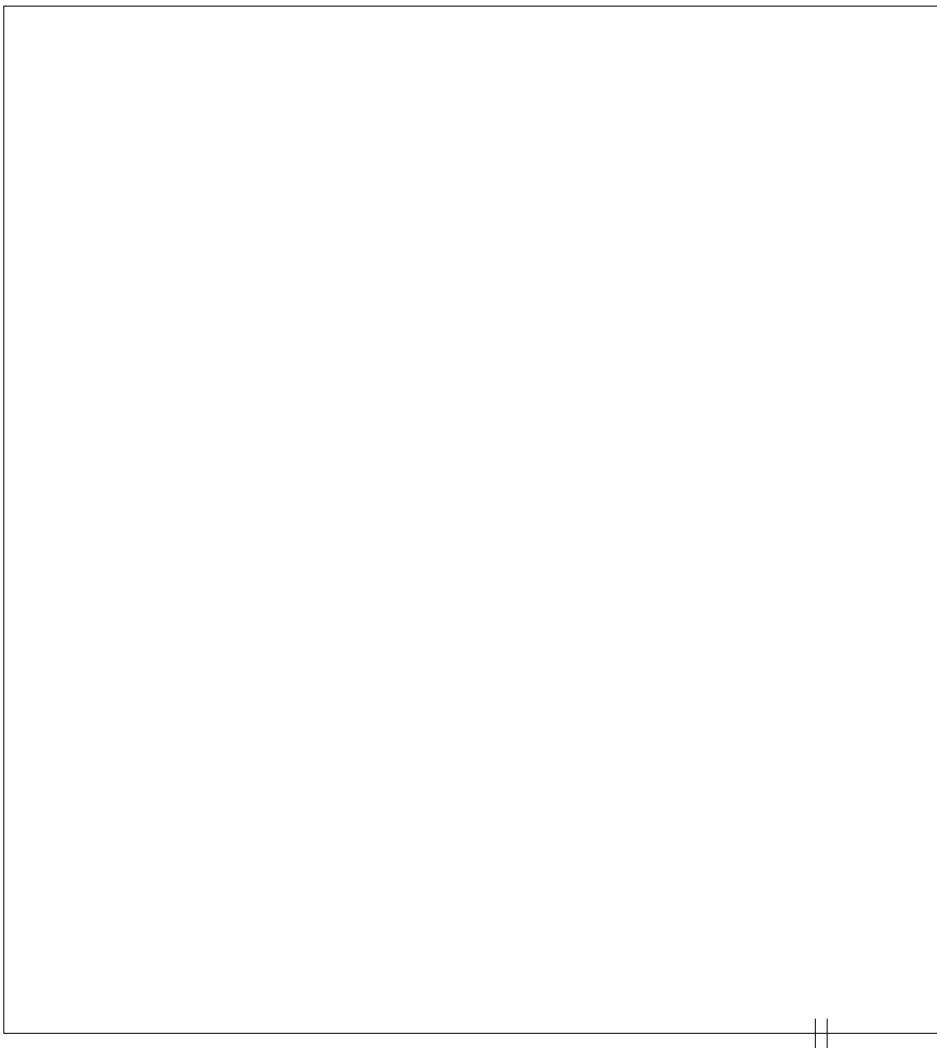
- SYMBOLS KEY**
- ROOF CURB OR VENT
  - ROOF DRAIN
  - ⊕ FLASHED PEN.
  - Ⓜ DEFECT-REPAIR



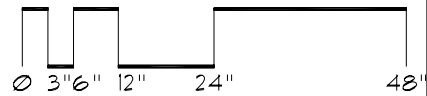
# Roof Corrective Action



# Roof Corrective Action



SYMBOLS KEY  
# SCUPPER  
Ⓢ DEFECT-REPAIR



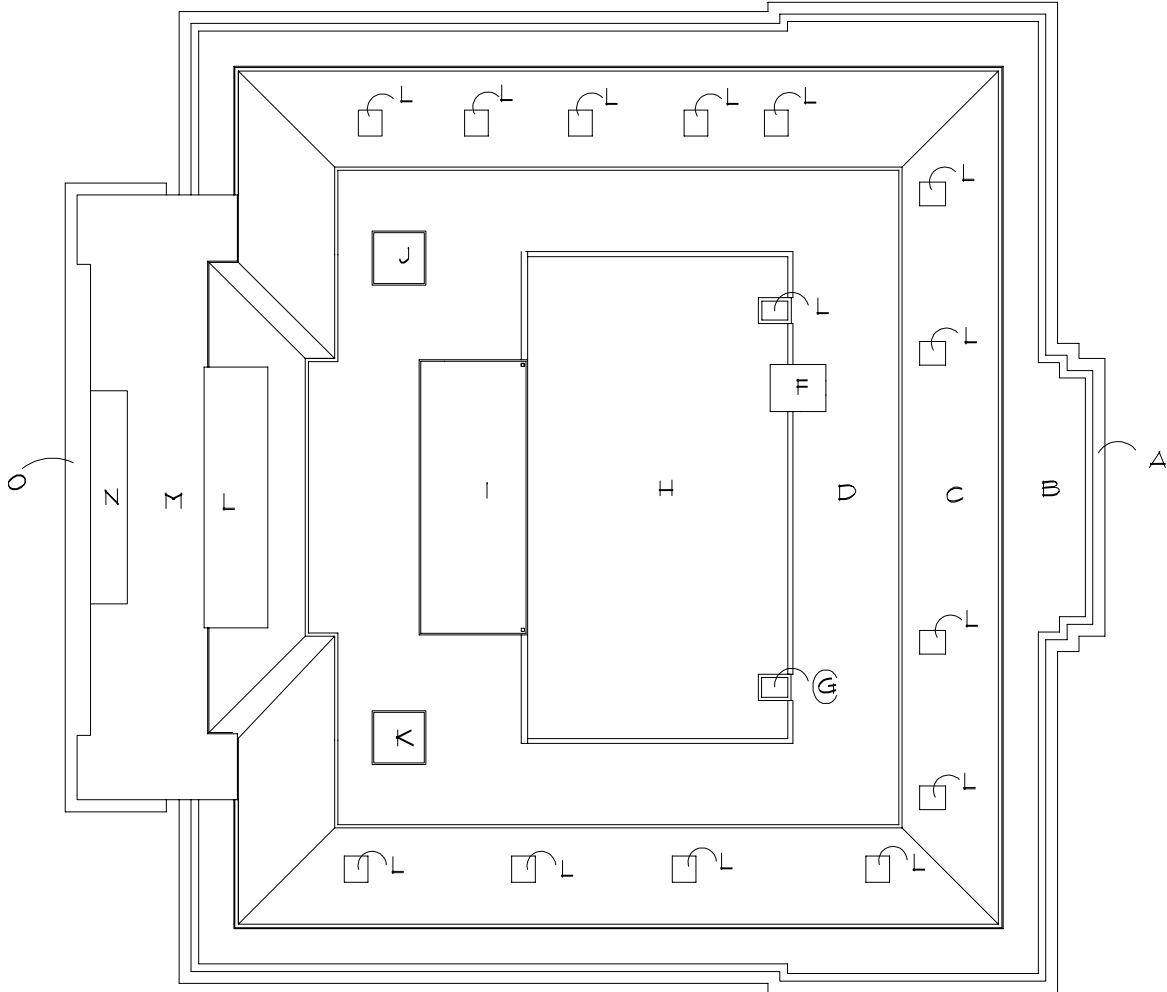
# Roof ID

**Building:** EB042 - Walter Library - (117 Pleasant Street SE Minneapolis)

**Roof Access:** Room 435

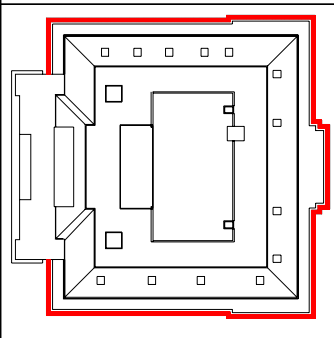
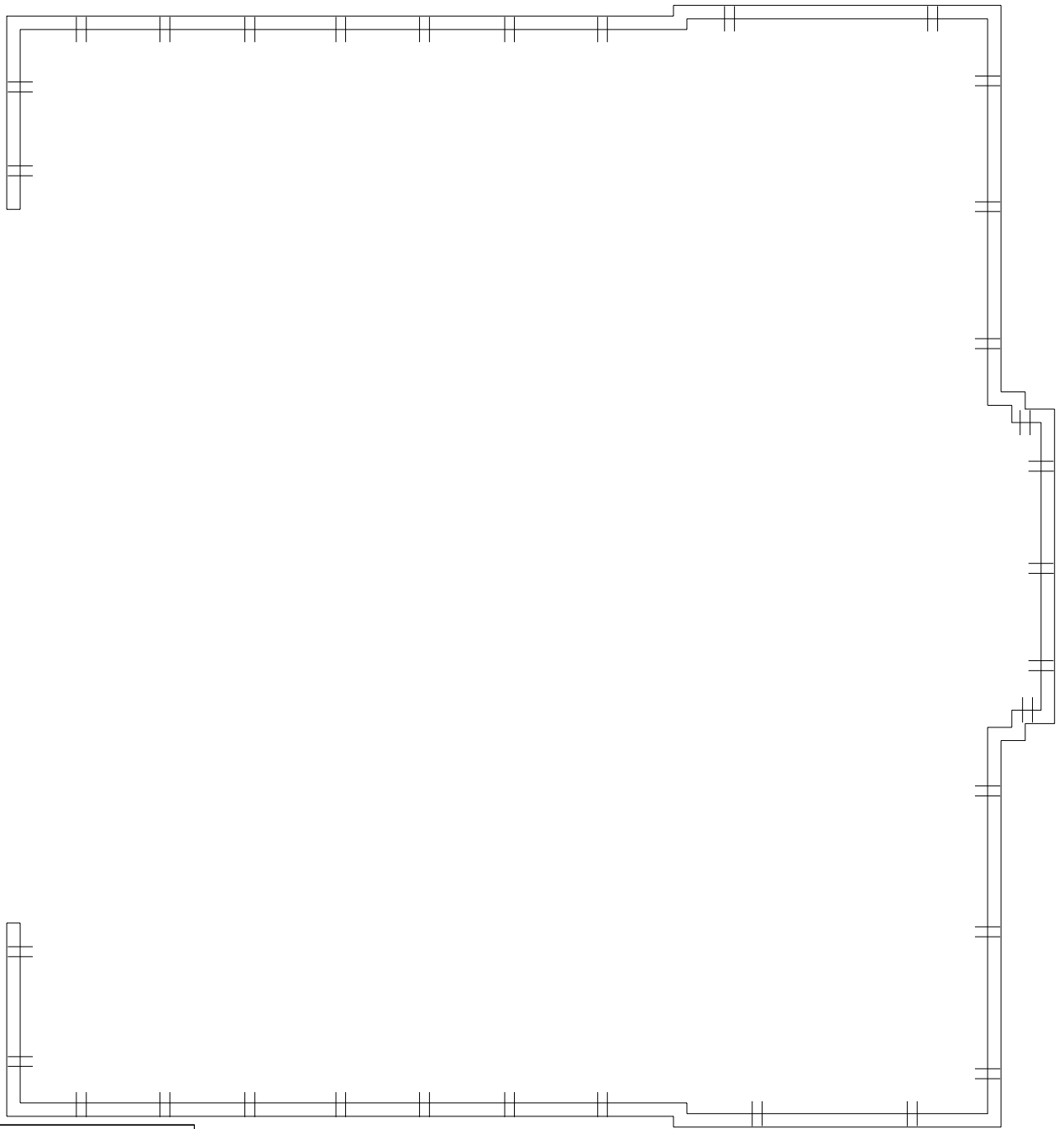
**Total Area:** 43,875 sf

<b>A</b>	<b>5,490</b>	<b>E</b>	<b>130</b>	<b>I</b>	<b>1,328</b>	<b>M</b>	<b>3,022</b>
<b>B</b>	<b>10,560</b>	<b>F</b>	<b>1,372</b>	<b>J</b>	<b>128</b>	<b>N</b>	<b>348</b>
<b>C</b>	<b>5,663</b>	<b>G</b>	<b>25</b>	<b>K</b>	<b>128</b>	<b>O</b>	<b>707</b>
<b>D</b>	<b>100</b>	<b>H</b>	<b>13,800</b>	<b>L</b>	<b>1,074</b>		

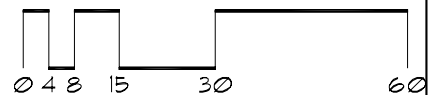
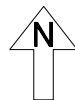




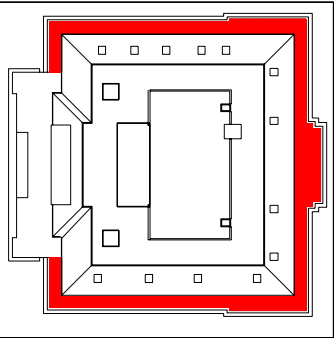
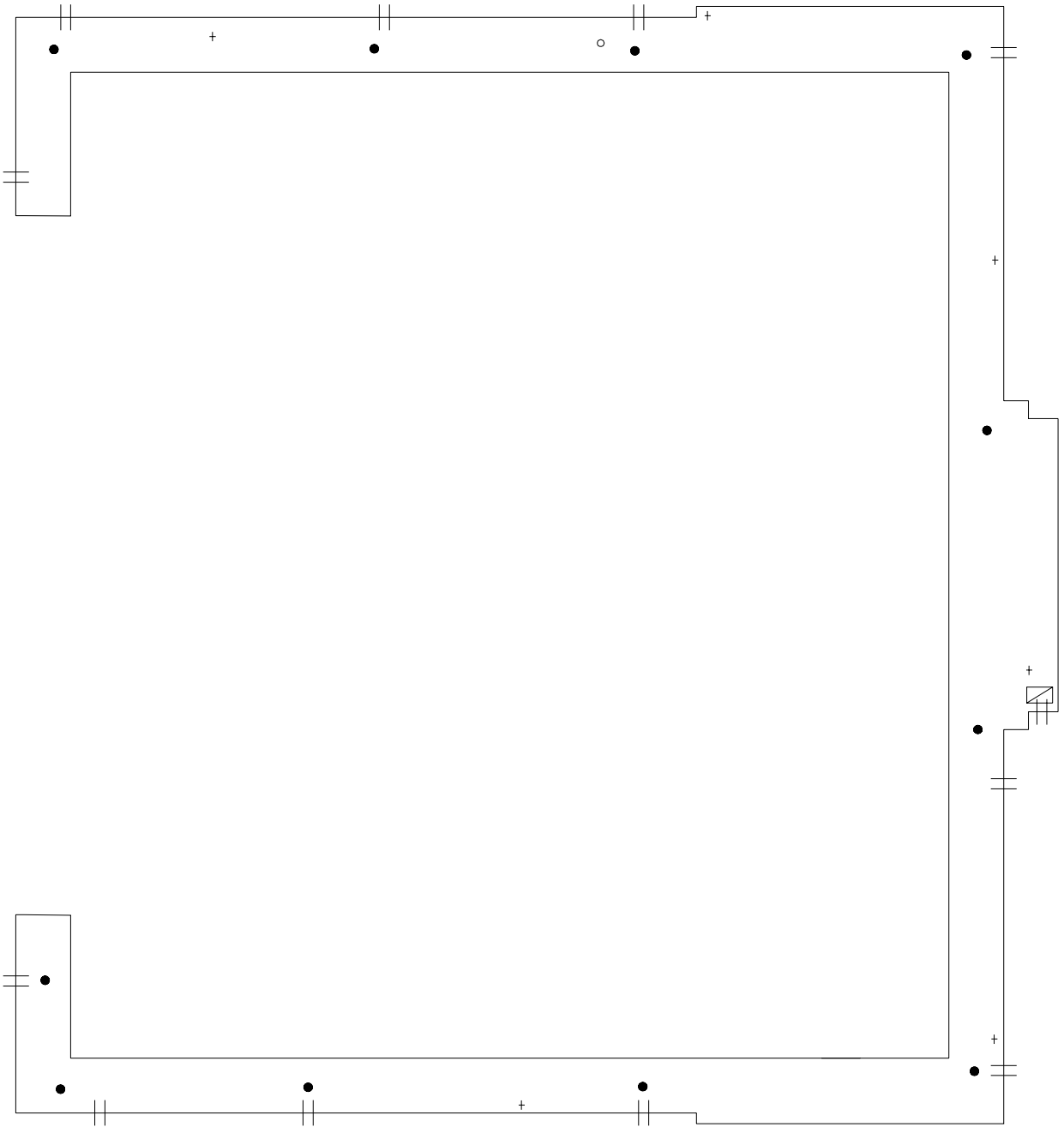
# Roof Corrective Action



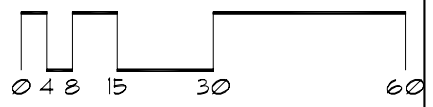
SYMBOLS KEY  
|| SCUPPER



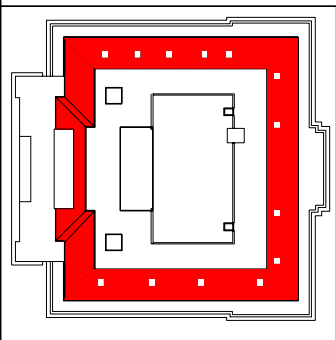
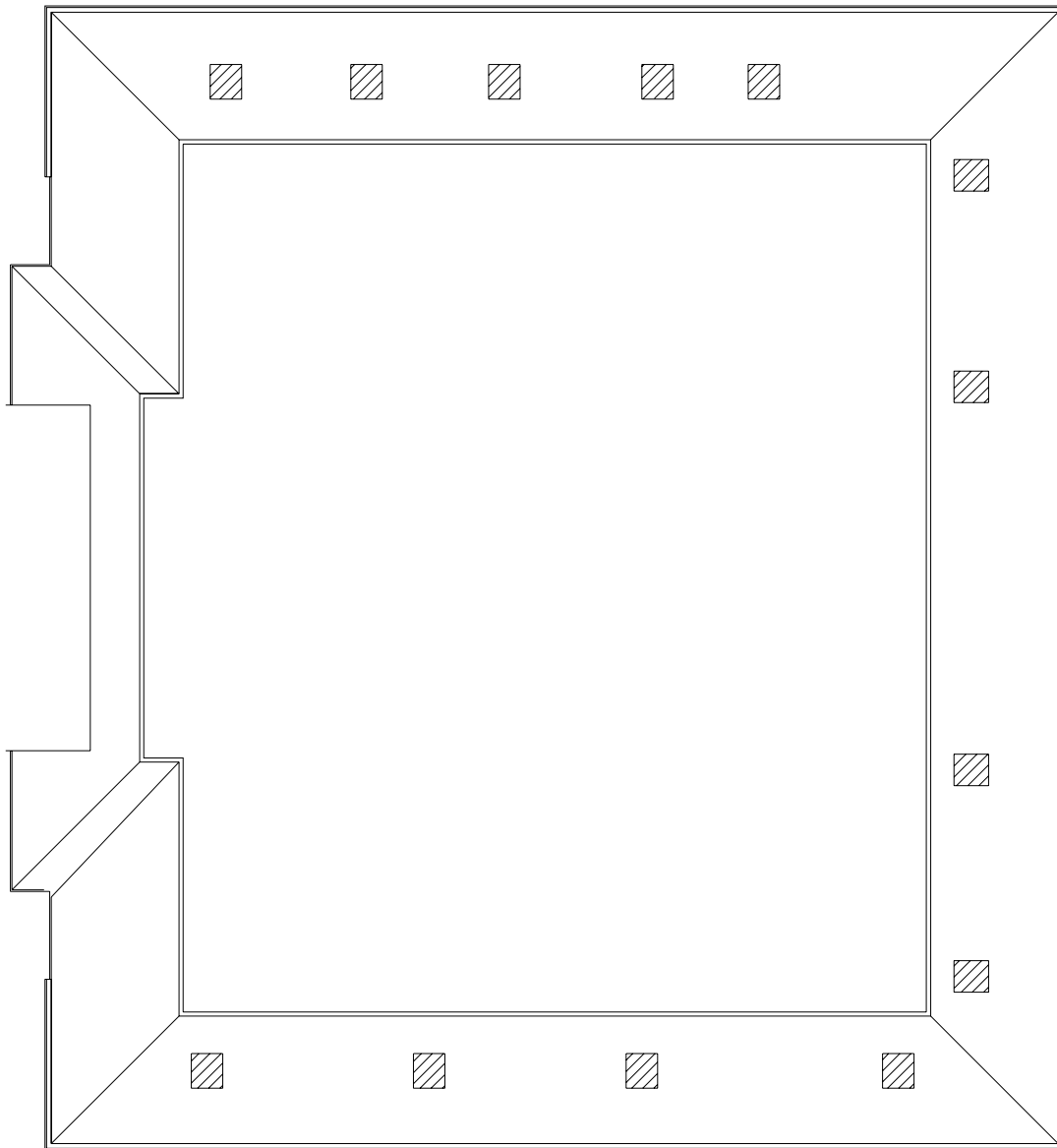
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF DRAIN
  - VENT STACK
  - ≡ SCUPPER
  - ▣ ROOF HATCH
  - ⊕ ROOF PENETRATION
  - Ⓢ DEFECT-REPAIR

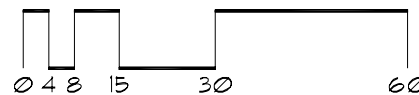


# Roof Corrective Action

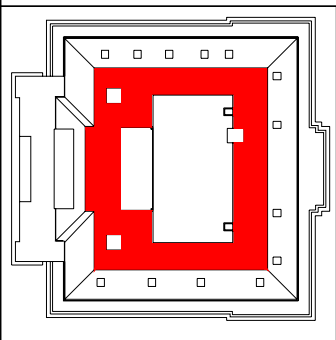
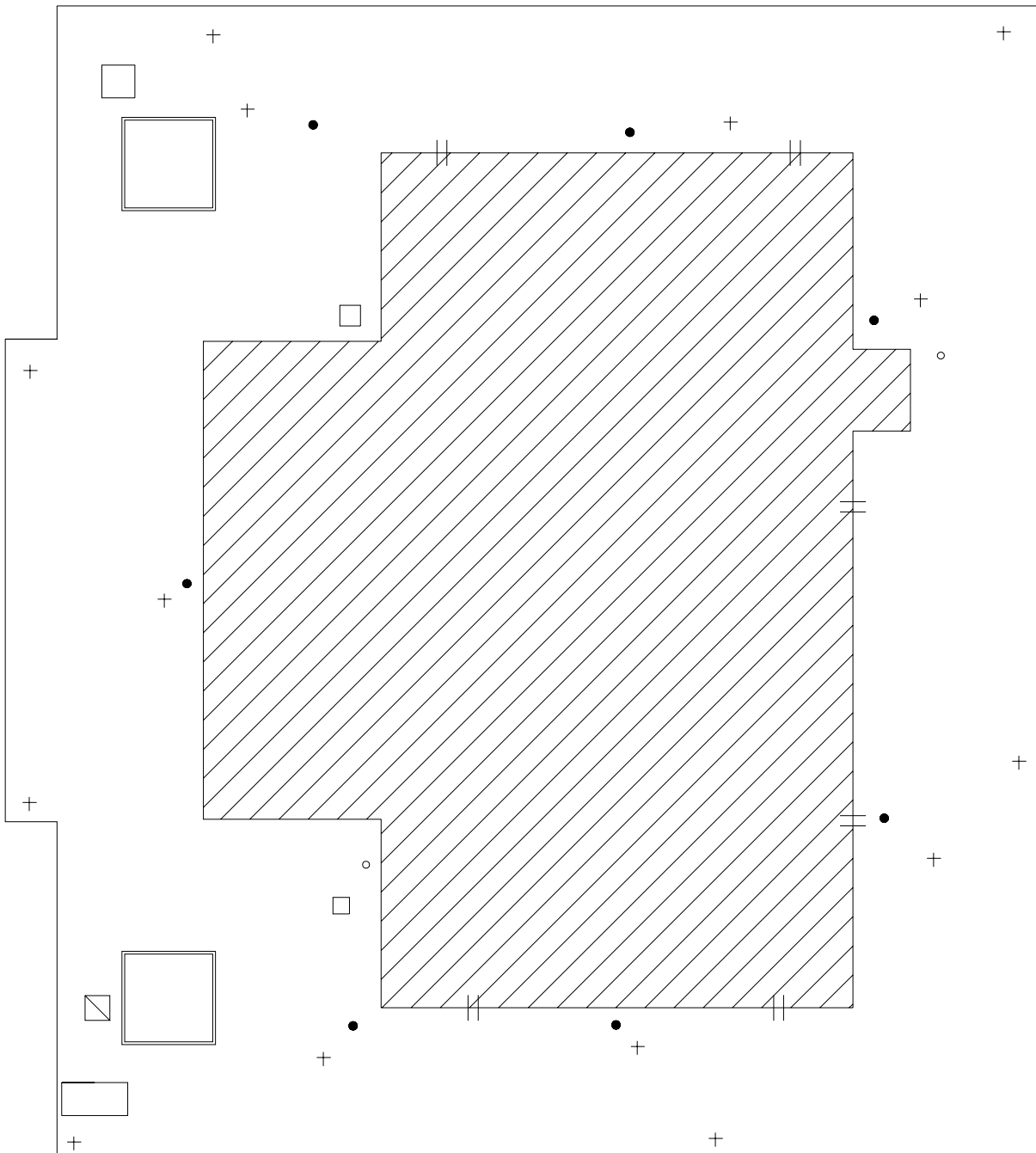


## SYMBOLS KEY

- ROOF CURB
- Ⓢ DEFECT-REPAIR

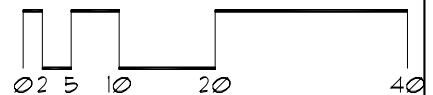


# Roof Corrective Action

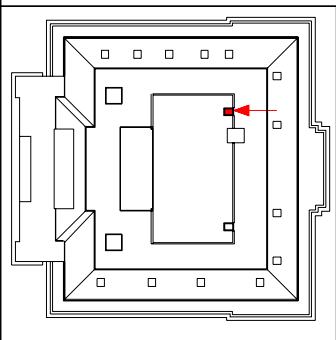
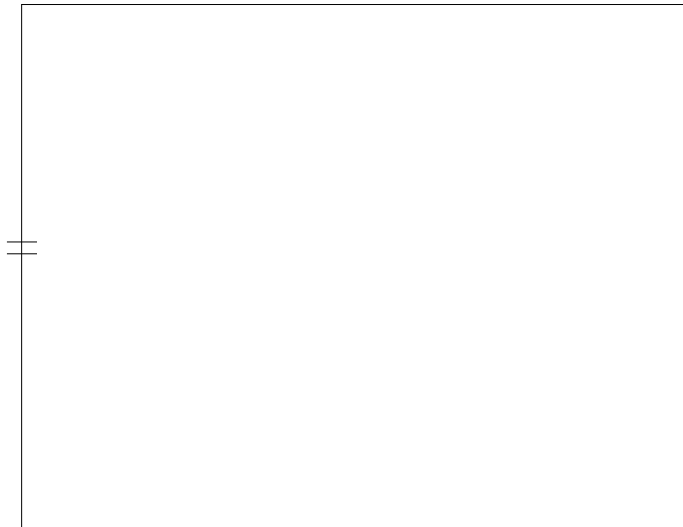


## SYMBOLS KEY

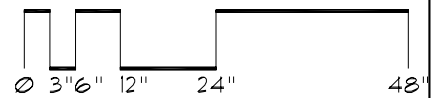
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ⊥ SCUPPER
- ▣ ROOF HATCH
- ⊕ ROOF PENETRATION
- Ⓢ DEFECT-REPAIR



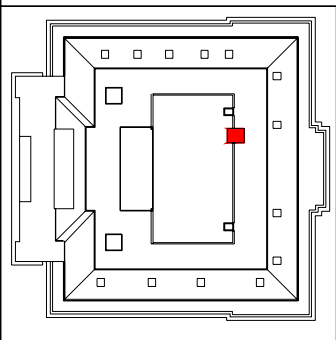
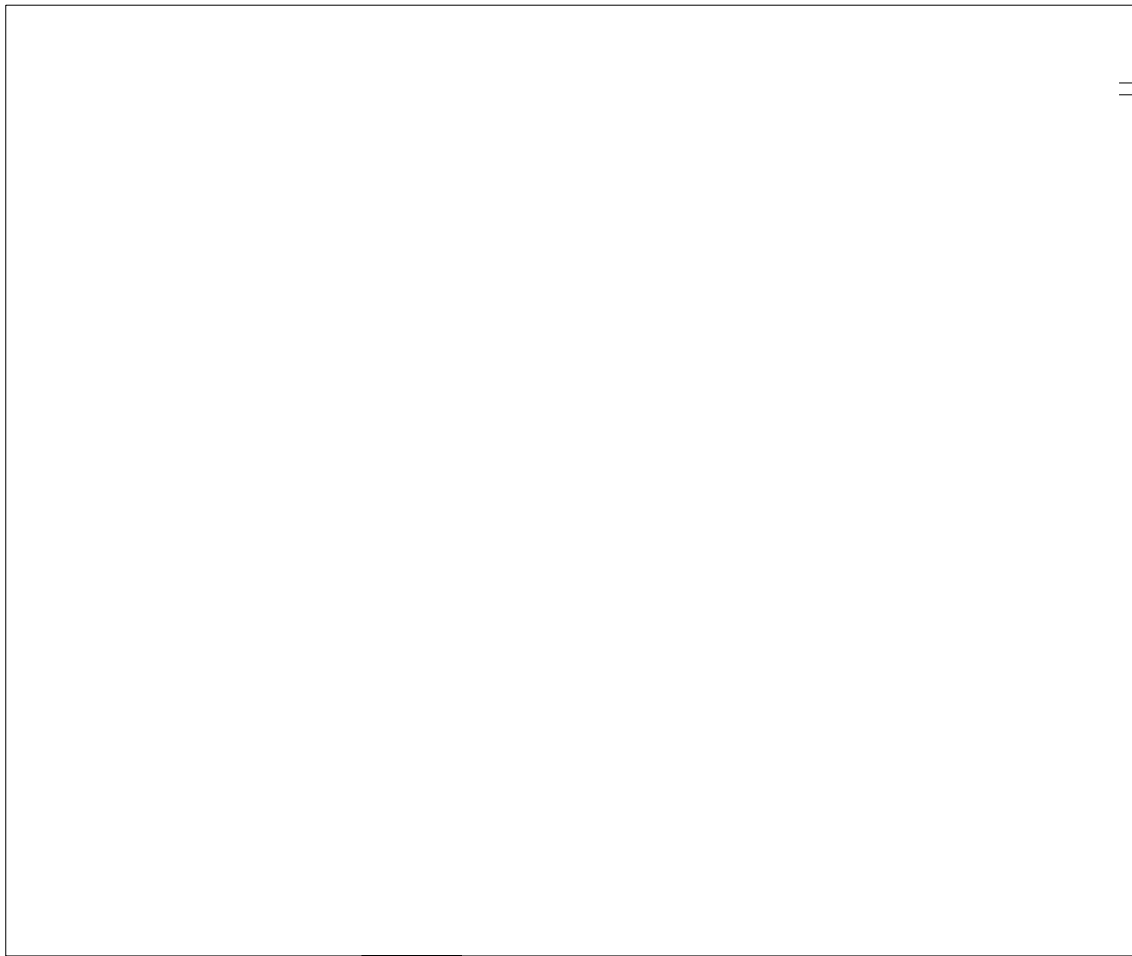
# Roof Corrective Action



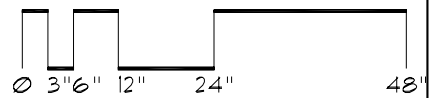
SYMBOLS KEY  
|| SCUPPER



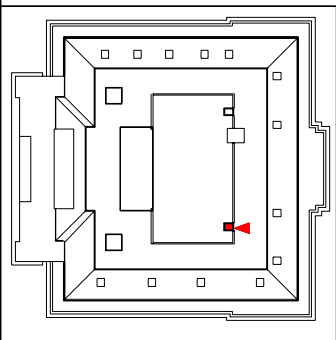
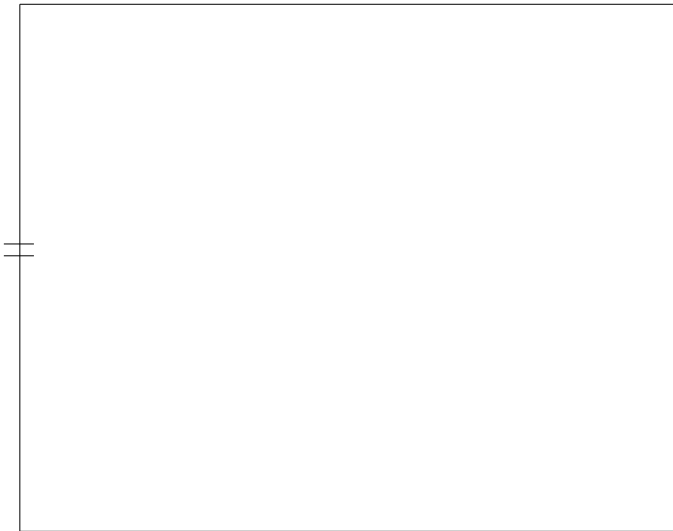
# Roof Corrective Action



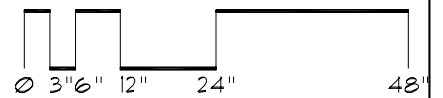
SYMBOLS KEY  
|| SCUPPER



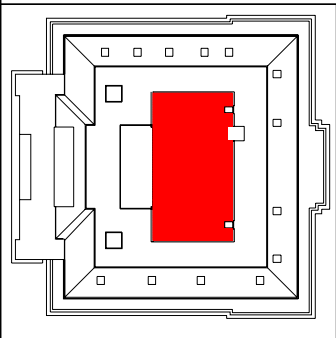
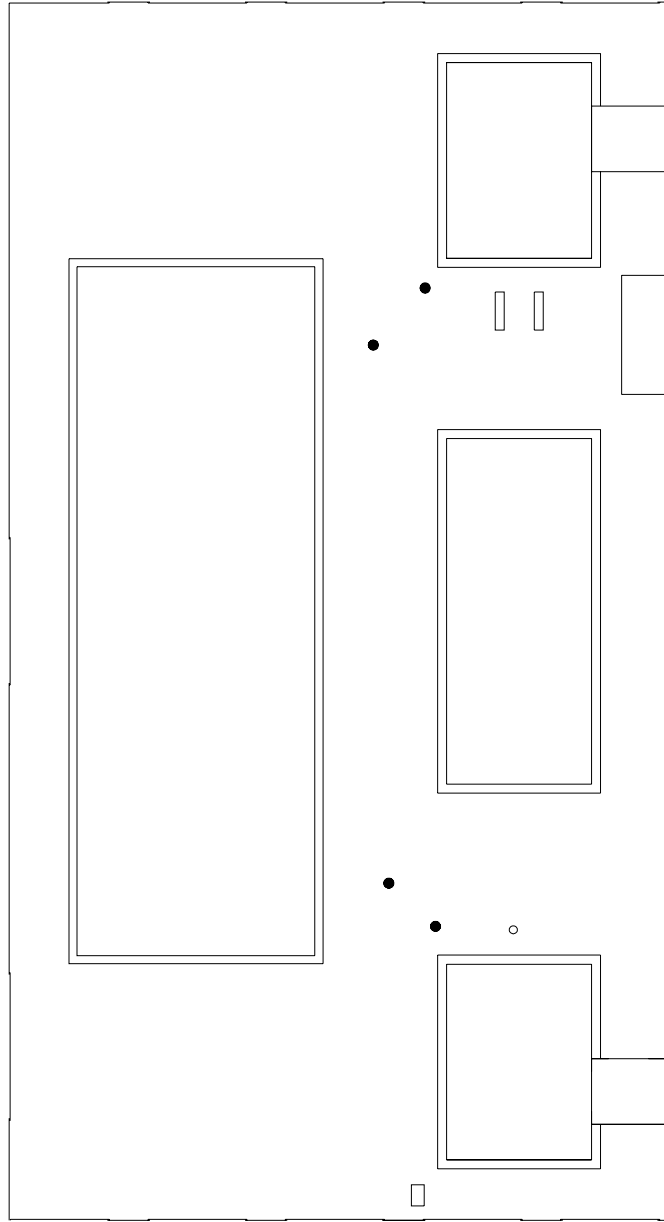
# Roof Corrective Action



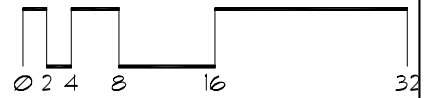
SYMBOLS KEY  
|| SCUPPER



# Roof Corrective Action

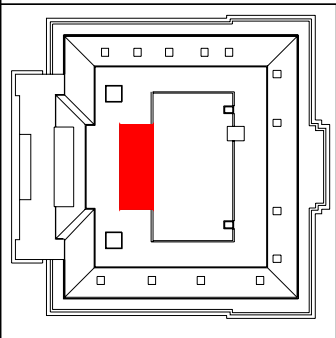
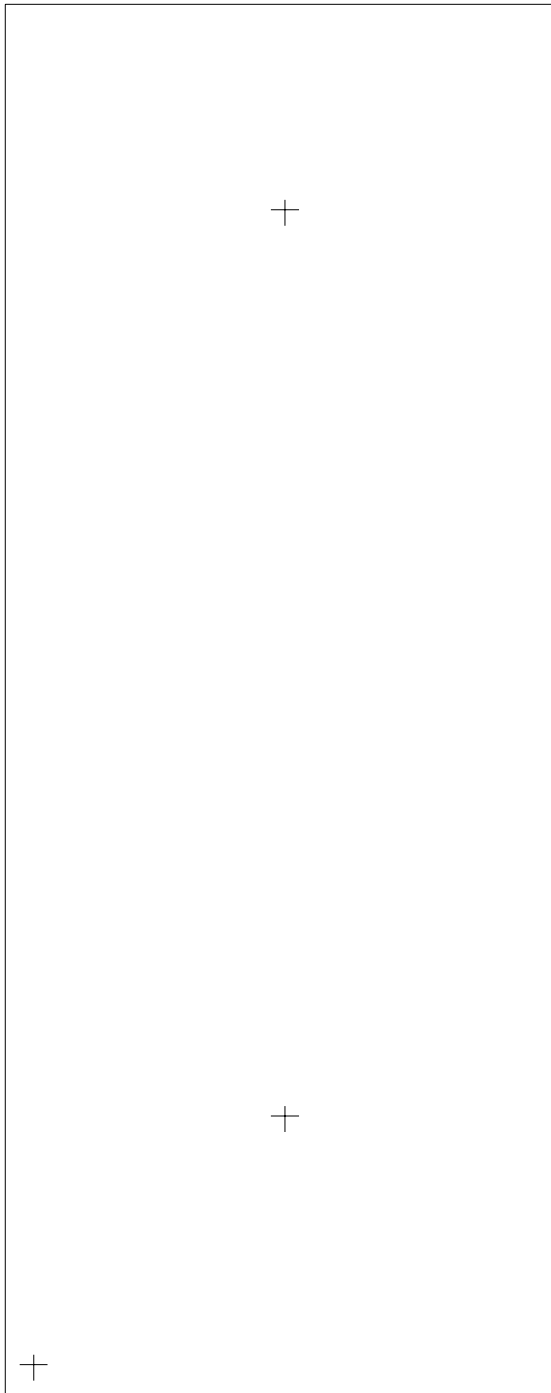


- SYMBOLS KEY
- ROOF CURB
  - ≡ SLEEPER CURB
  - ROOF DRAIN
  - VENT STACK
  - Ⓜ DEFECT-REPAIR

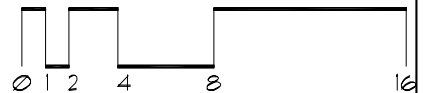




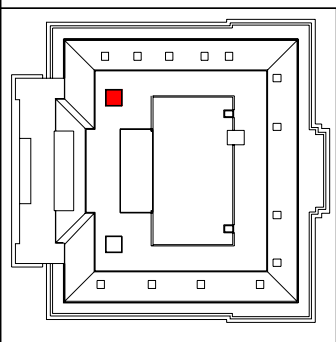
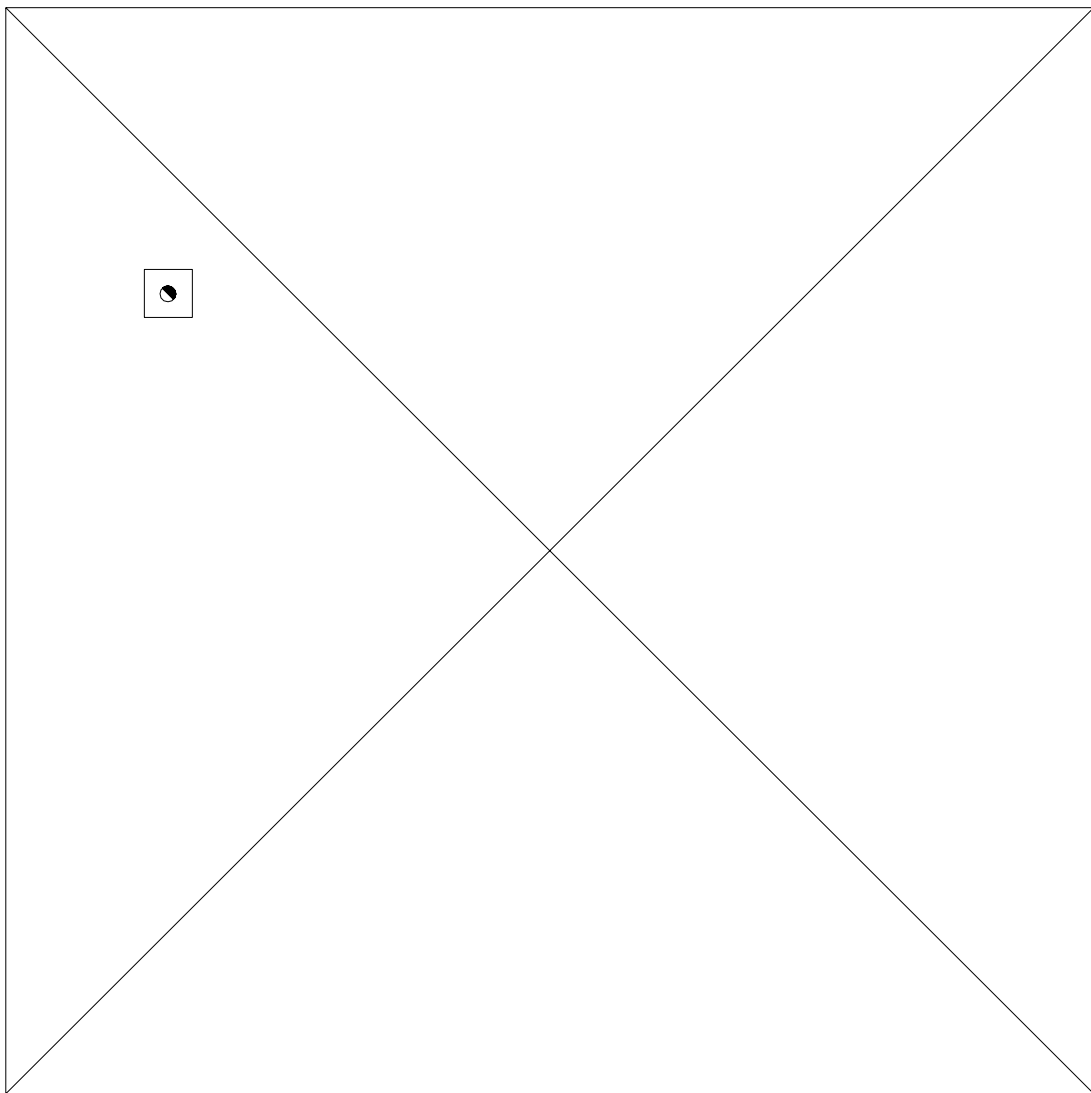
# Roof Corrective Action



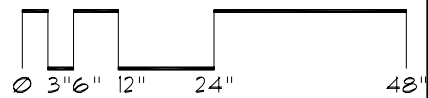
SYMBOLS KEY  
+ ROOF PENETRATION



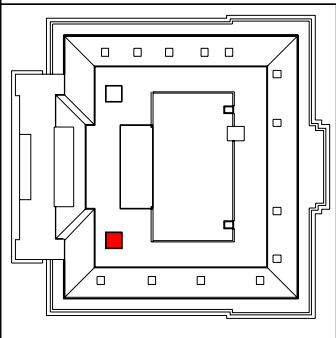
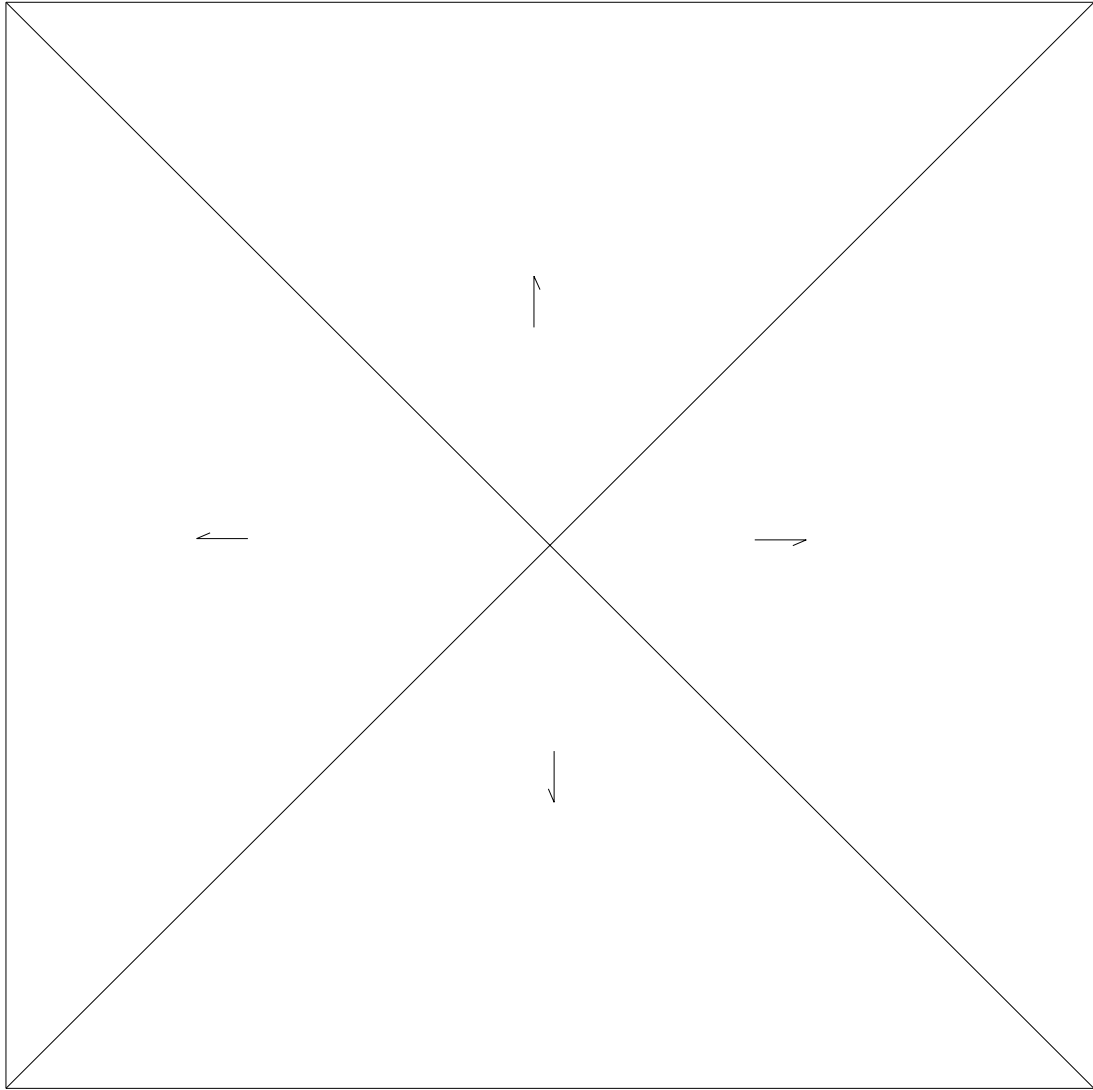
# Roof Corrective Action



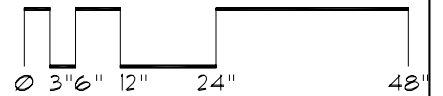
SYMBOLS KEY  
[Symbol] HEAT STACK



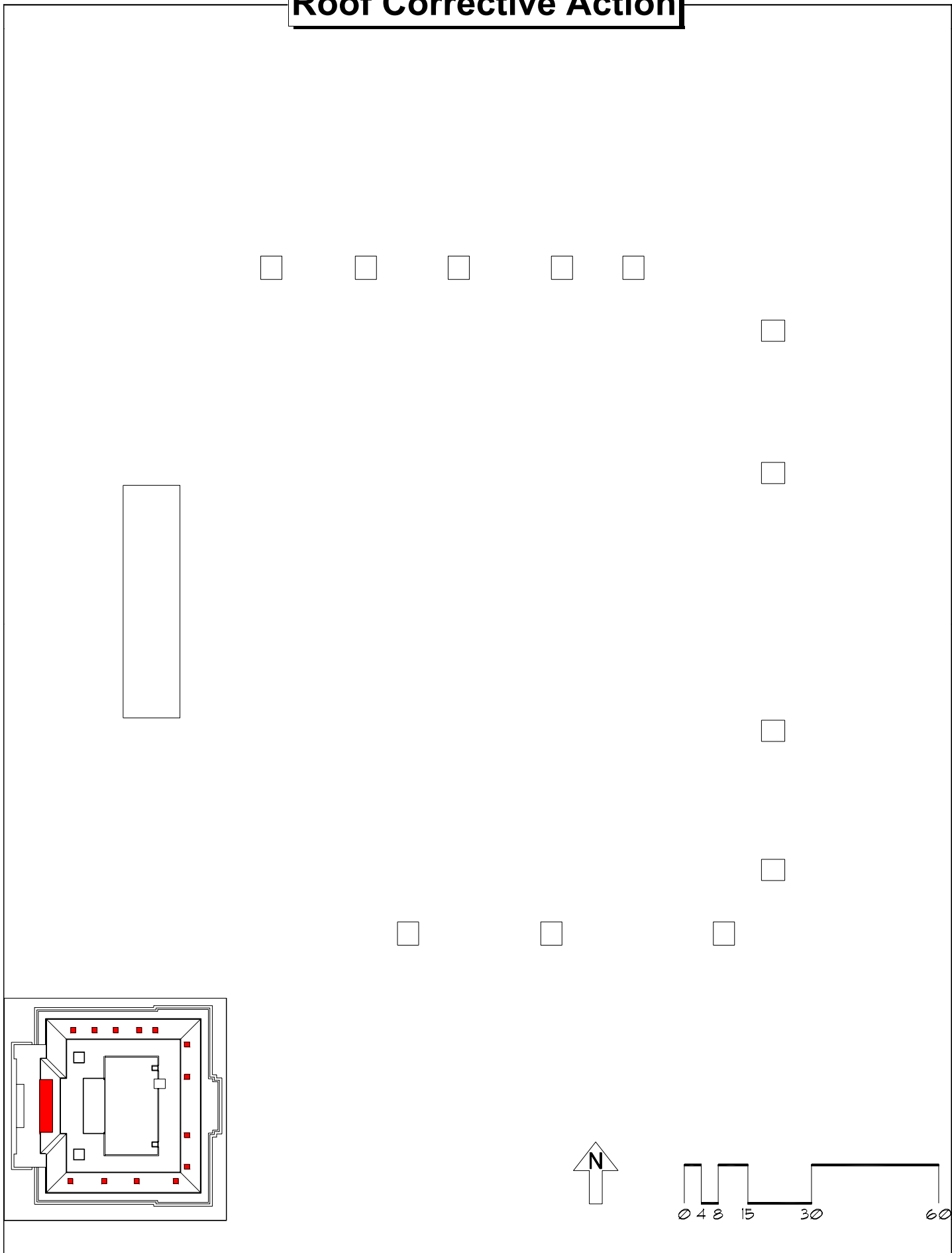
# Roof Corrective Action



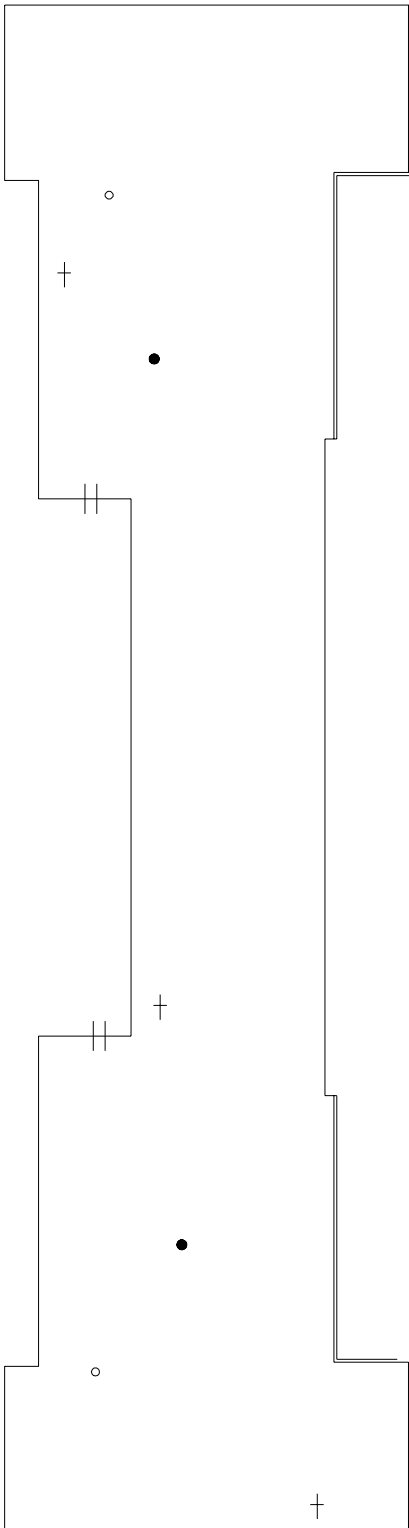
SYMBOLS KEY  
→ SLOPE DIRECTION



# Roof Corrective Action

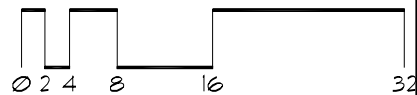
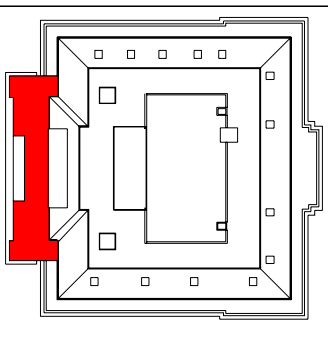


# Roof Corrective Action

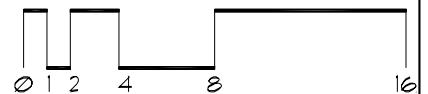
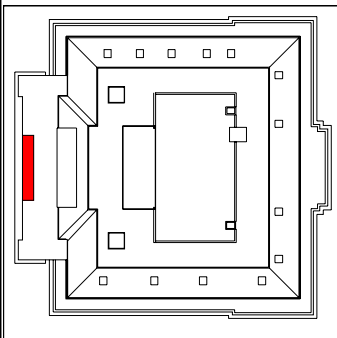
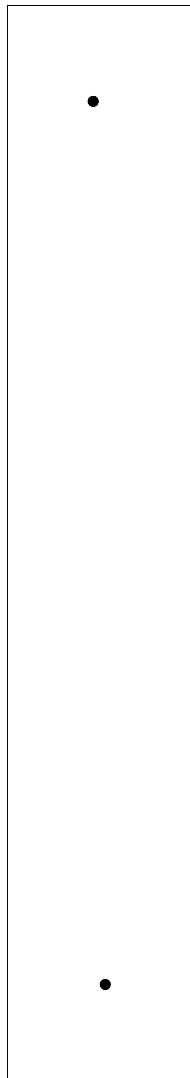


## SYMBOLS KEY

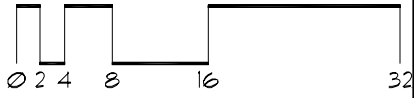
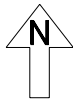
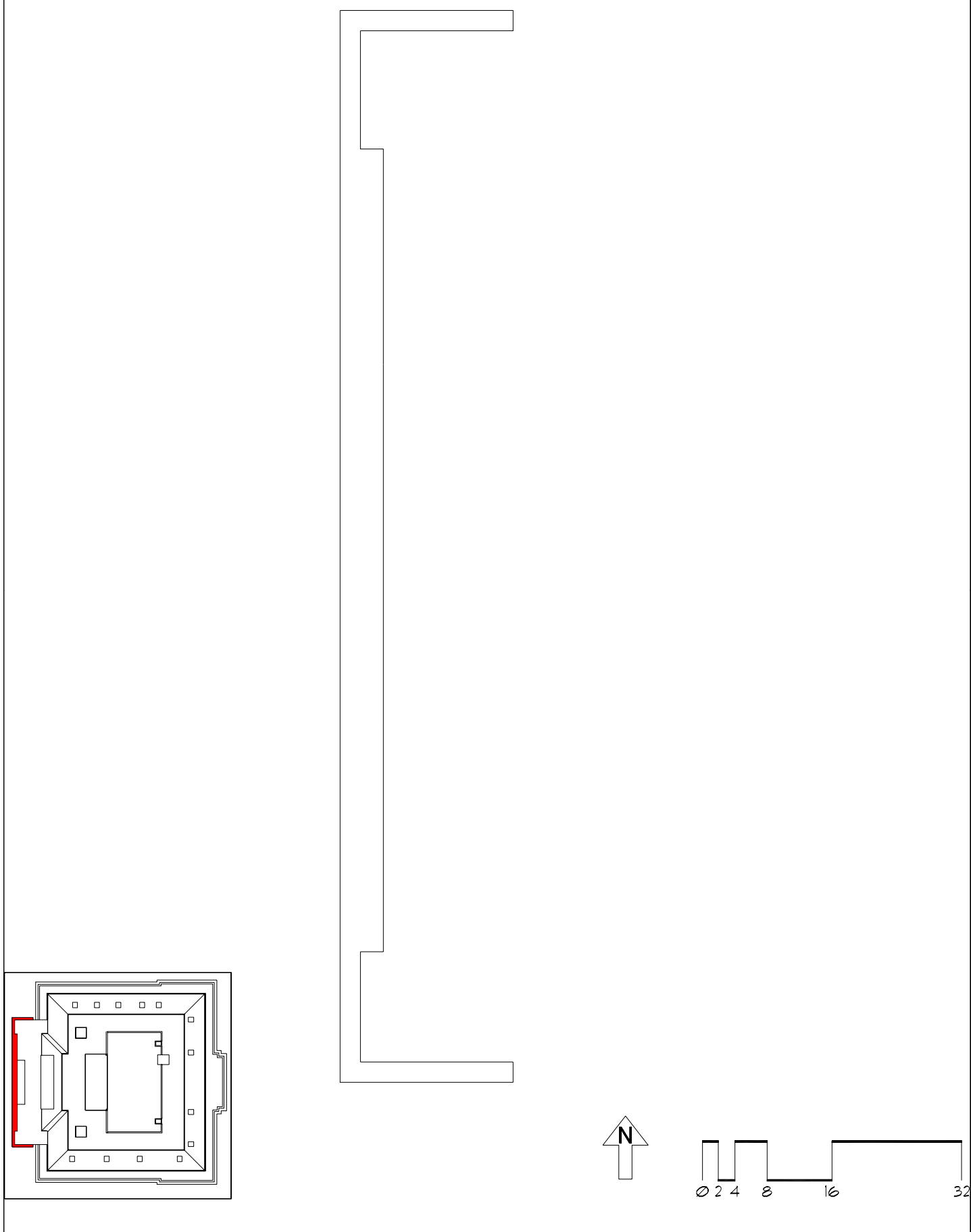
- ROOF DRAIN
- VENT STACK
- || SCUPPER
- + ROOF PENETRATION



# Roof Corrective Action



# Roof Corrective Action



# Roof ID

**Building:** EB044 - Donhowe Building - (319 15th Ave SE)

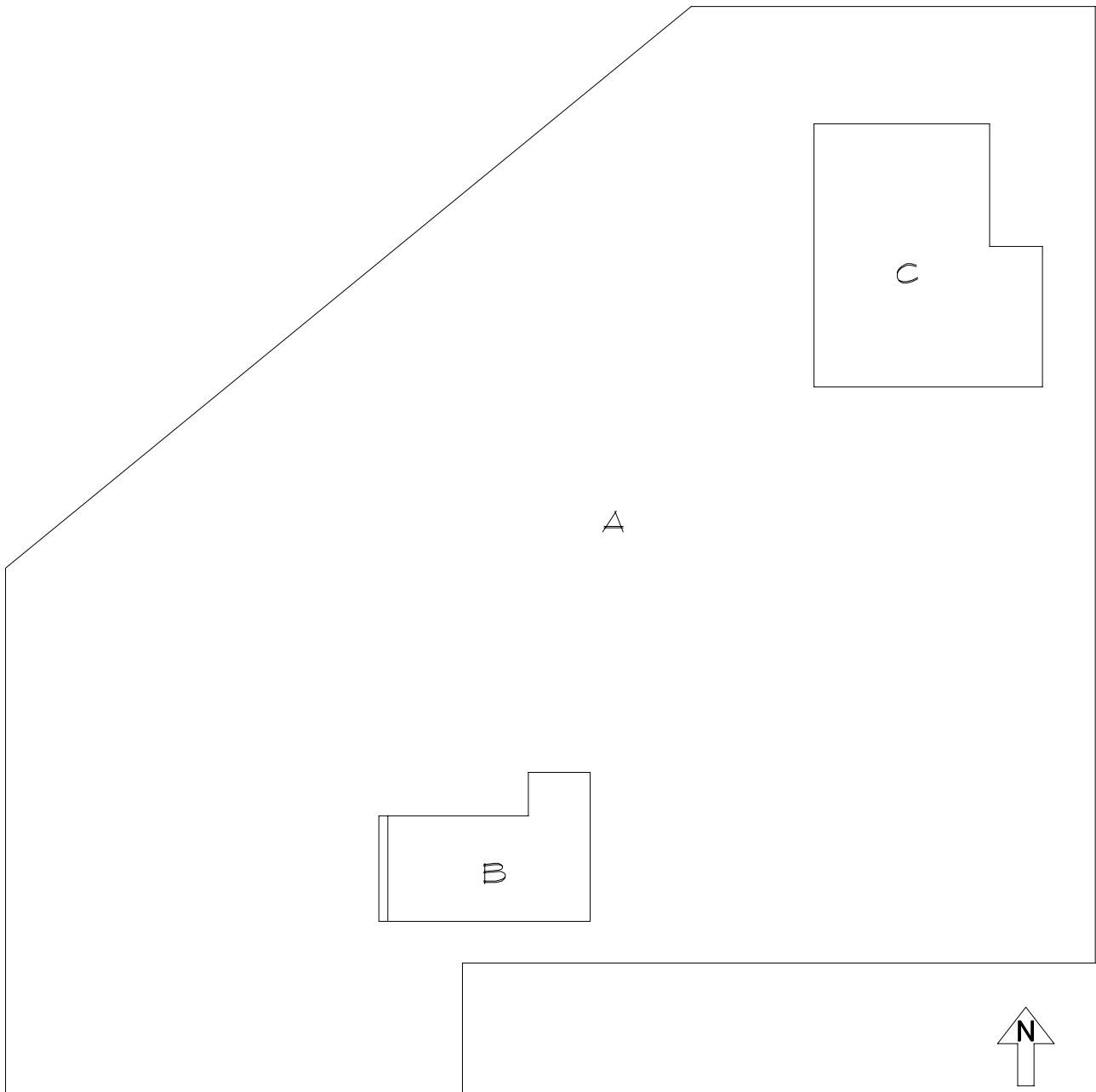
**Roof Access:** North staircase at penthouse C & Ladder for C&B

**Total Area:** 13,800 sf

**A**      **12,781**

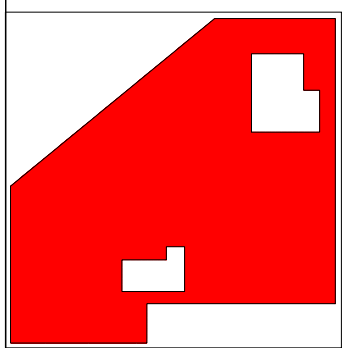
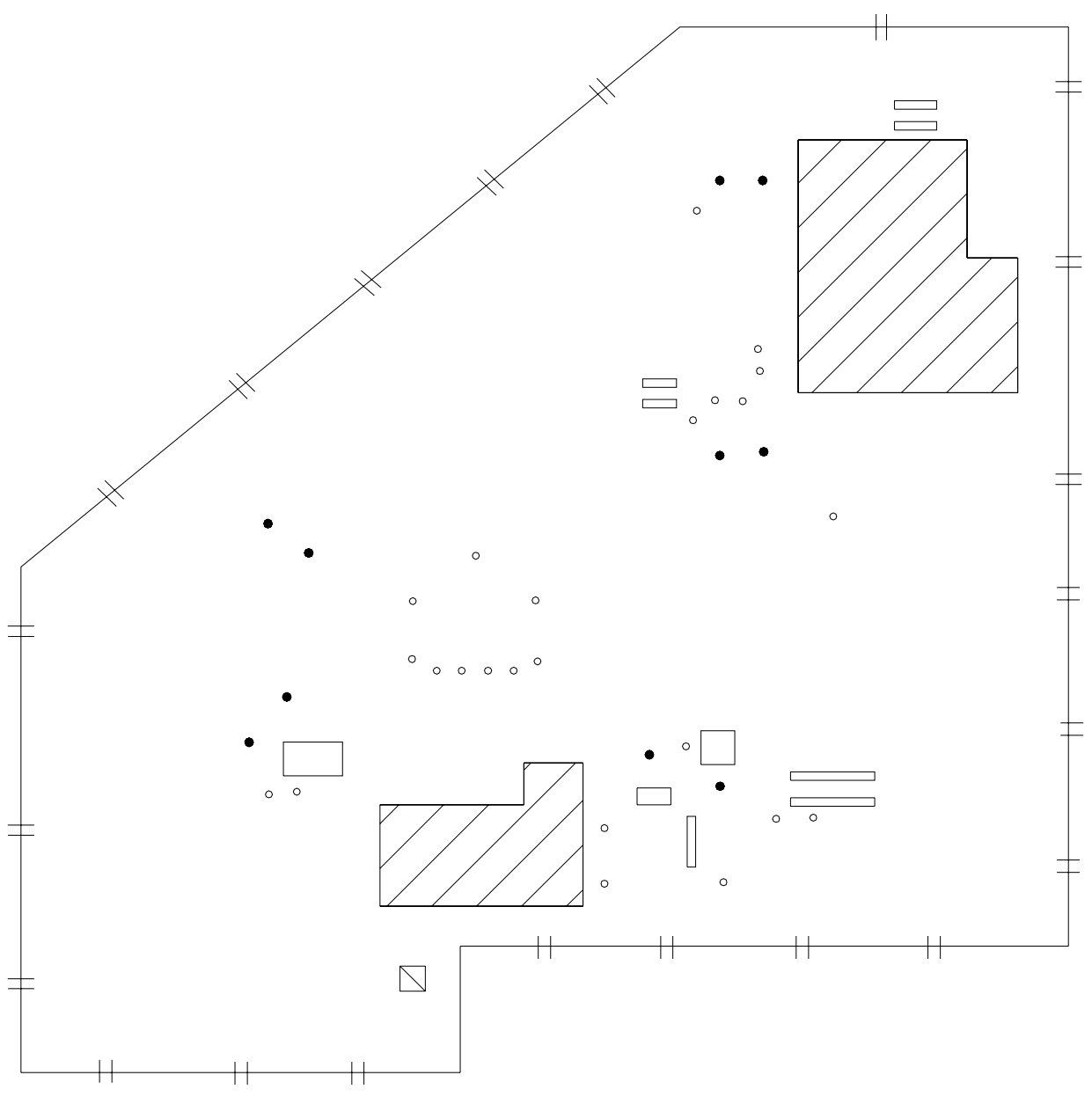
**B**      **323**

**C**      **696**



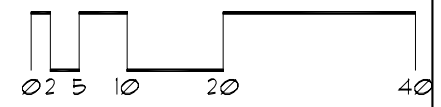


# Roof Corrective Action

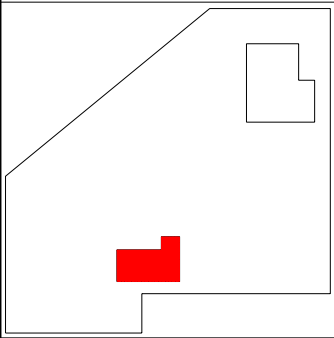
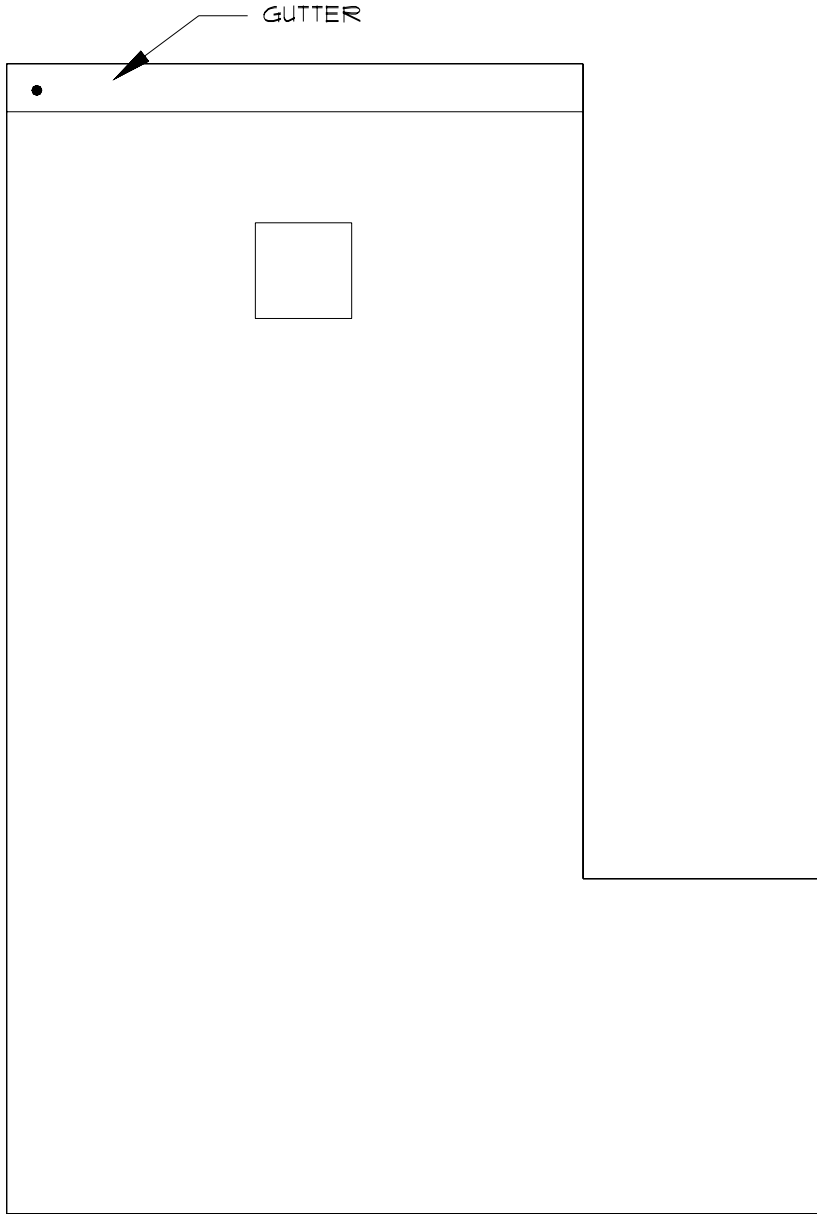


**SYMBOLS KEY**

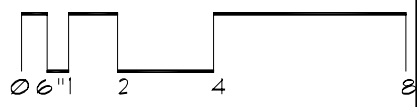
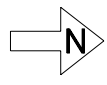
⊢	SCUPPER
○	VENT STACK
●	ROOF DRAIN
□	ROOF CURB
▨	ROOF HATCH
≡	SLEEPER CURB



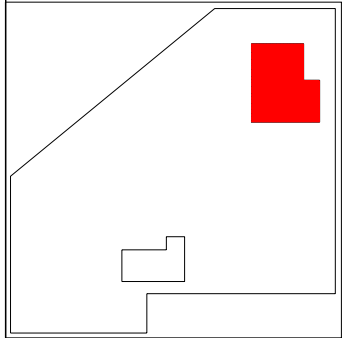
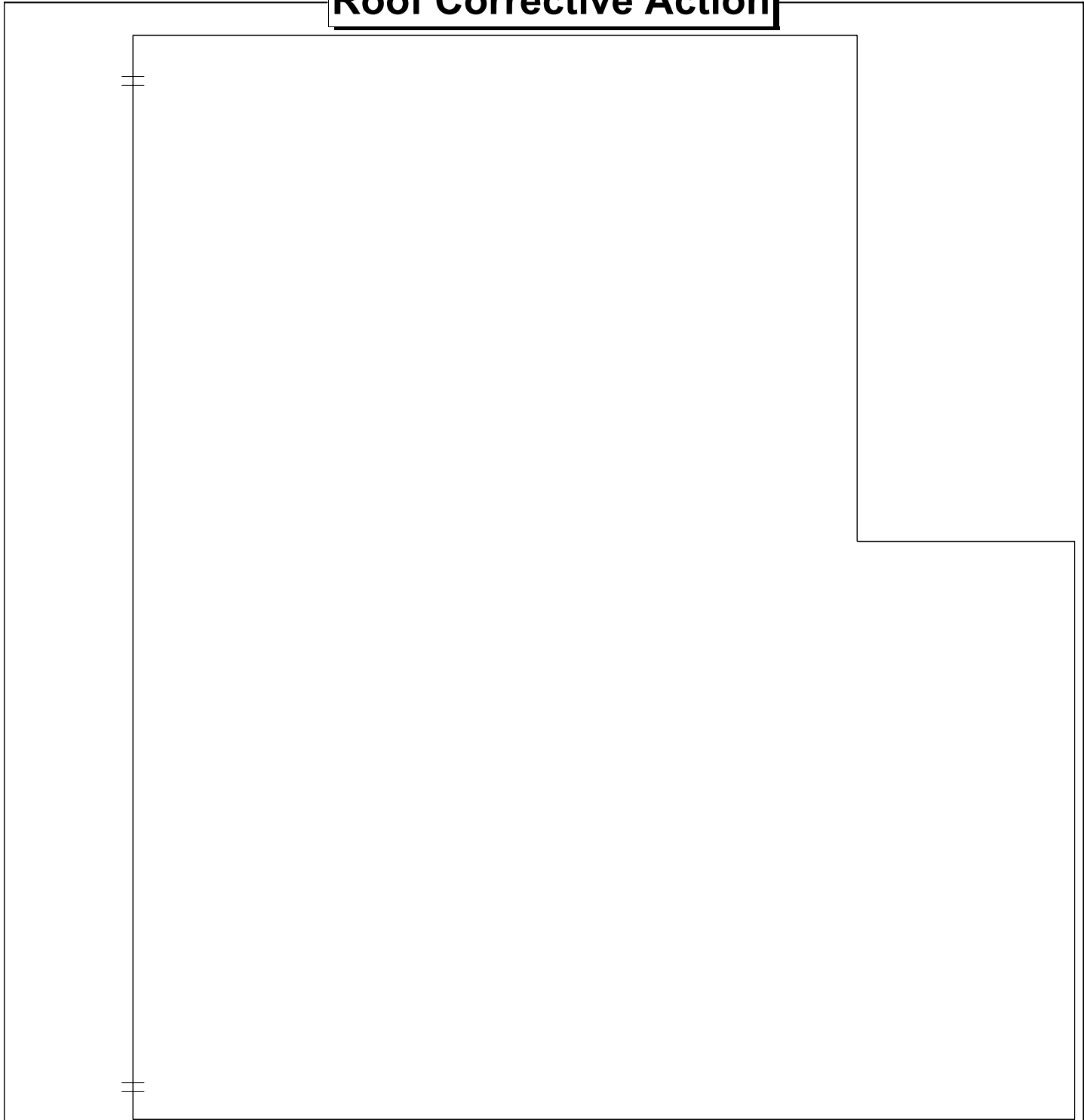
# Roof Corrective Action



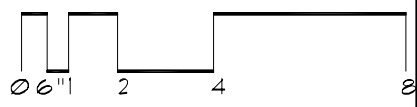
SYMBOLS KEY  
□ ROOF CURB  
① DEFECT-



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER



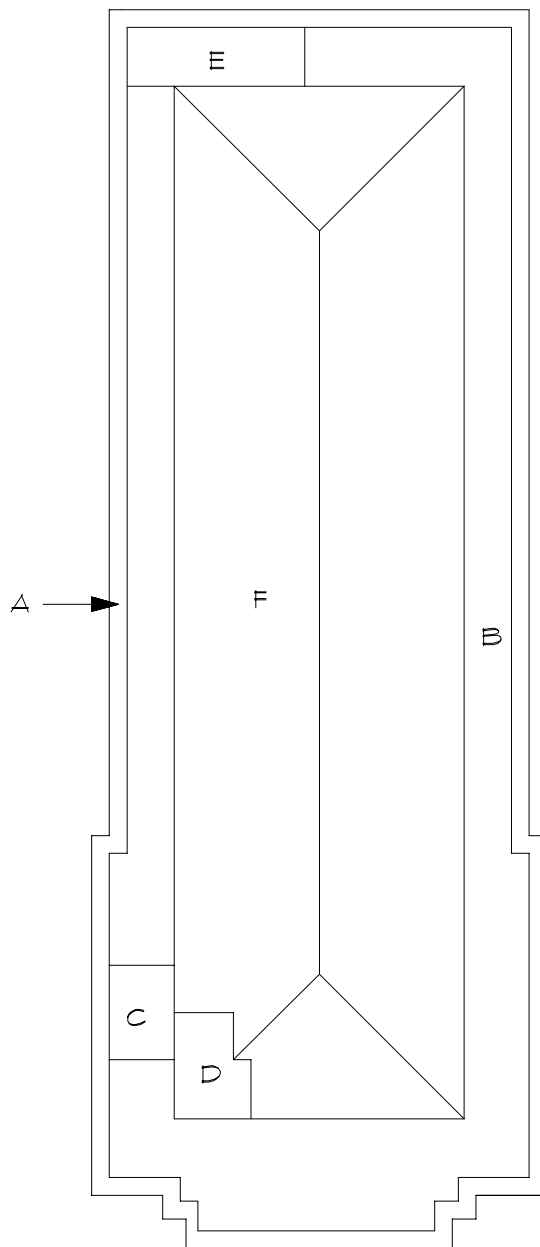
# Roof ID

**Building:** EB046 - Morrill Hall - (100 Church Street SE Minneapolis)

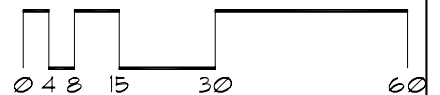
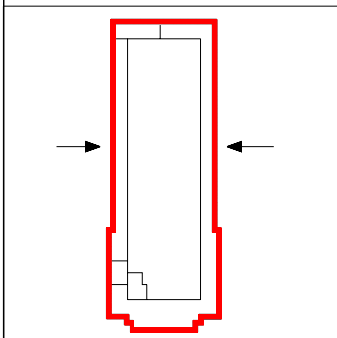
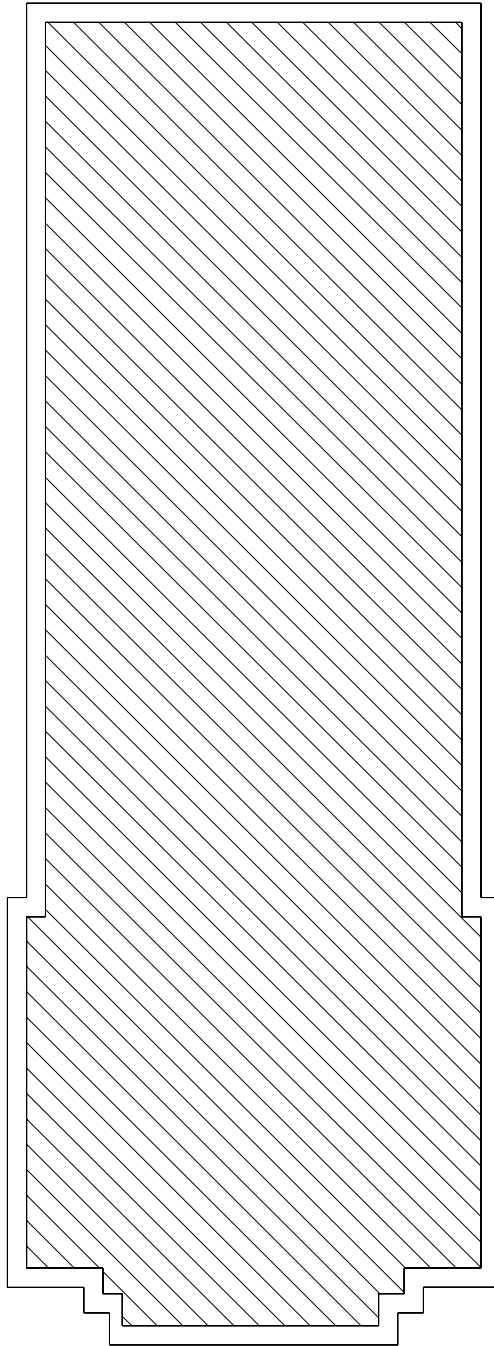
**Roof Access:** Window in center stairwell at 5th floor just off elevator.

**Total Area:** 15,181 sf

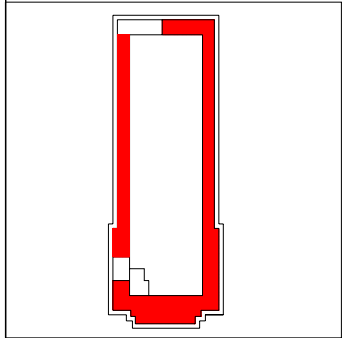
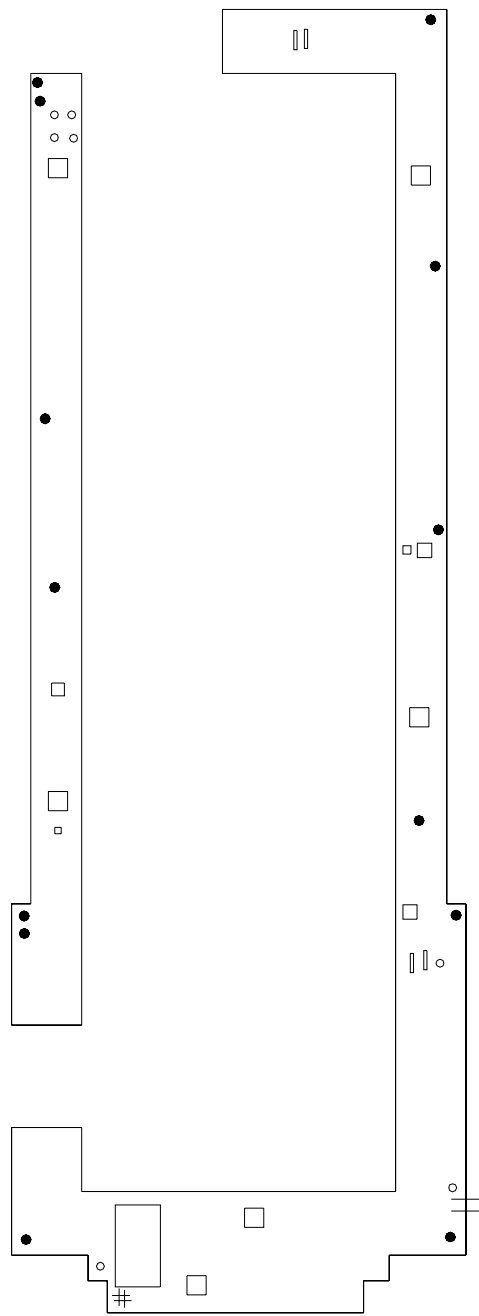
<u>A</u>	<u>1,716</u>	<u>E</u>	<u>330</u>
<u>B</u>	<u>4,256</u>	<u>F</u>	<u>8,493</u>
<u>C</u>	<u>176</u>		
<u>D</u>	<u>210</u>		



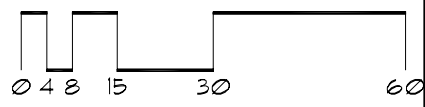
# Roof Corrective Action



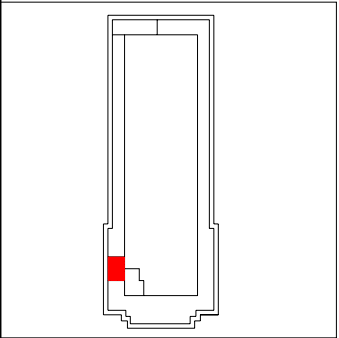
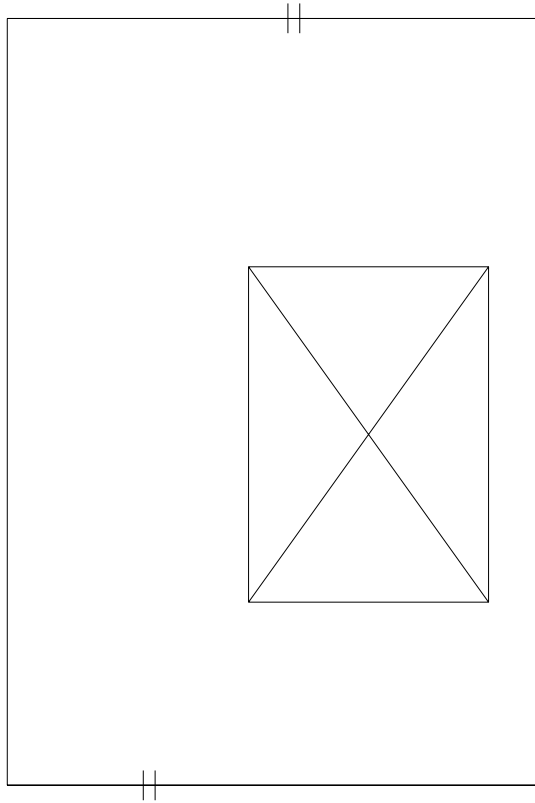
# Roof Corrective Action



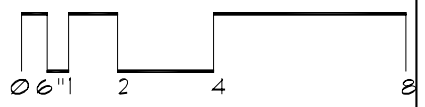
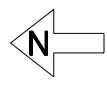
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ≡ SCUPPER
  - # PITCH FAN
  - ≡ SLEEPER CURB



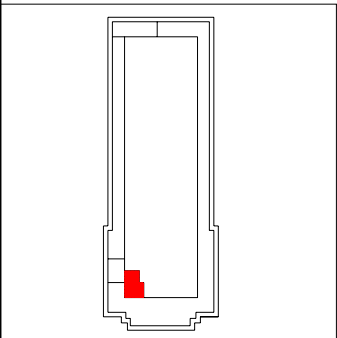
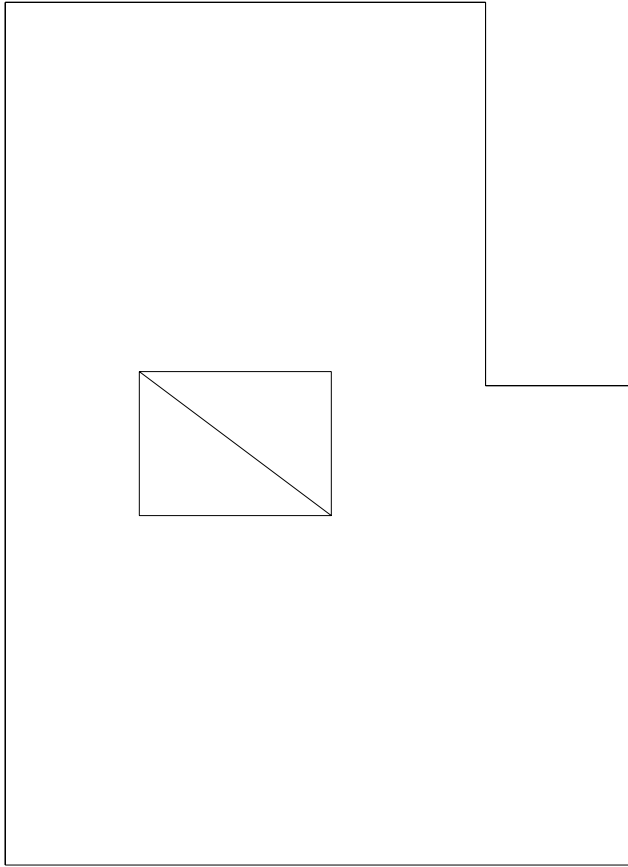
# Roof Corrective Action



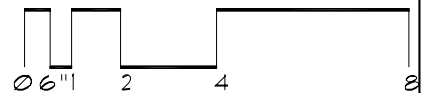
SYMBOLS KEY  
|| SCUPPER  
☒ SKYLIGHT



# Roof Corrective Action

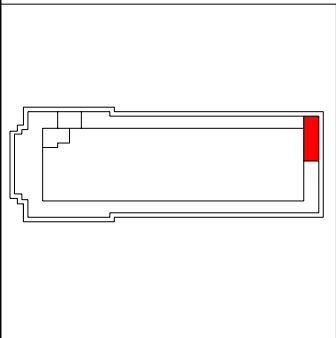


SYMBOLS KEY  
☐ ROOF HATCH

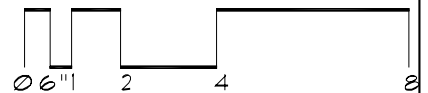




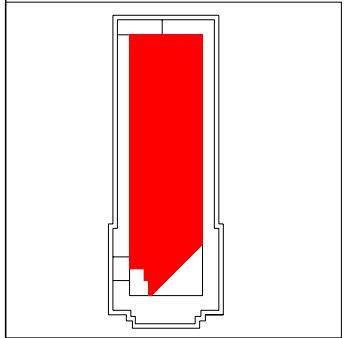
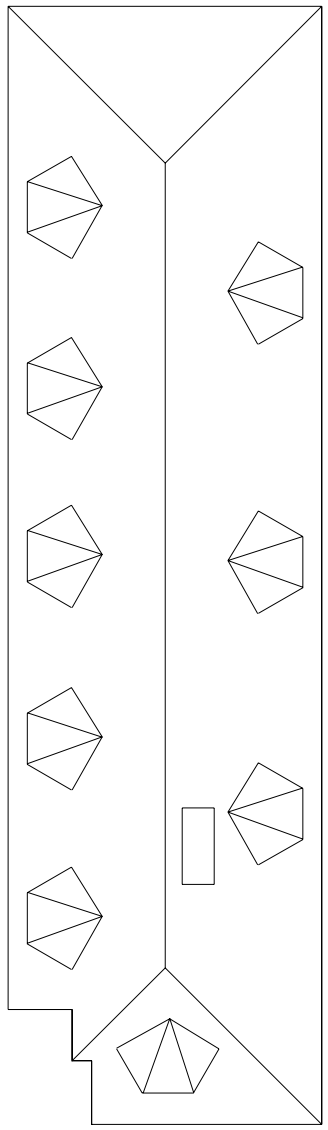
# Roof Corrective Action



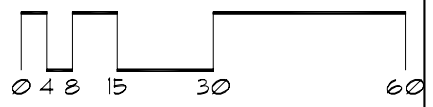
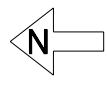
SYMBOLS KEY  
|| SCUPPER



# Roof Corrective Action



SYMBOLS KEY



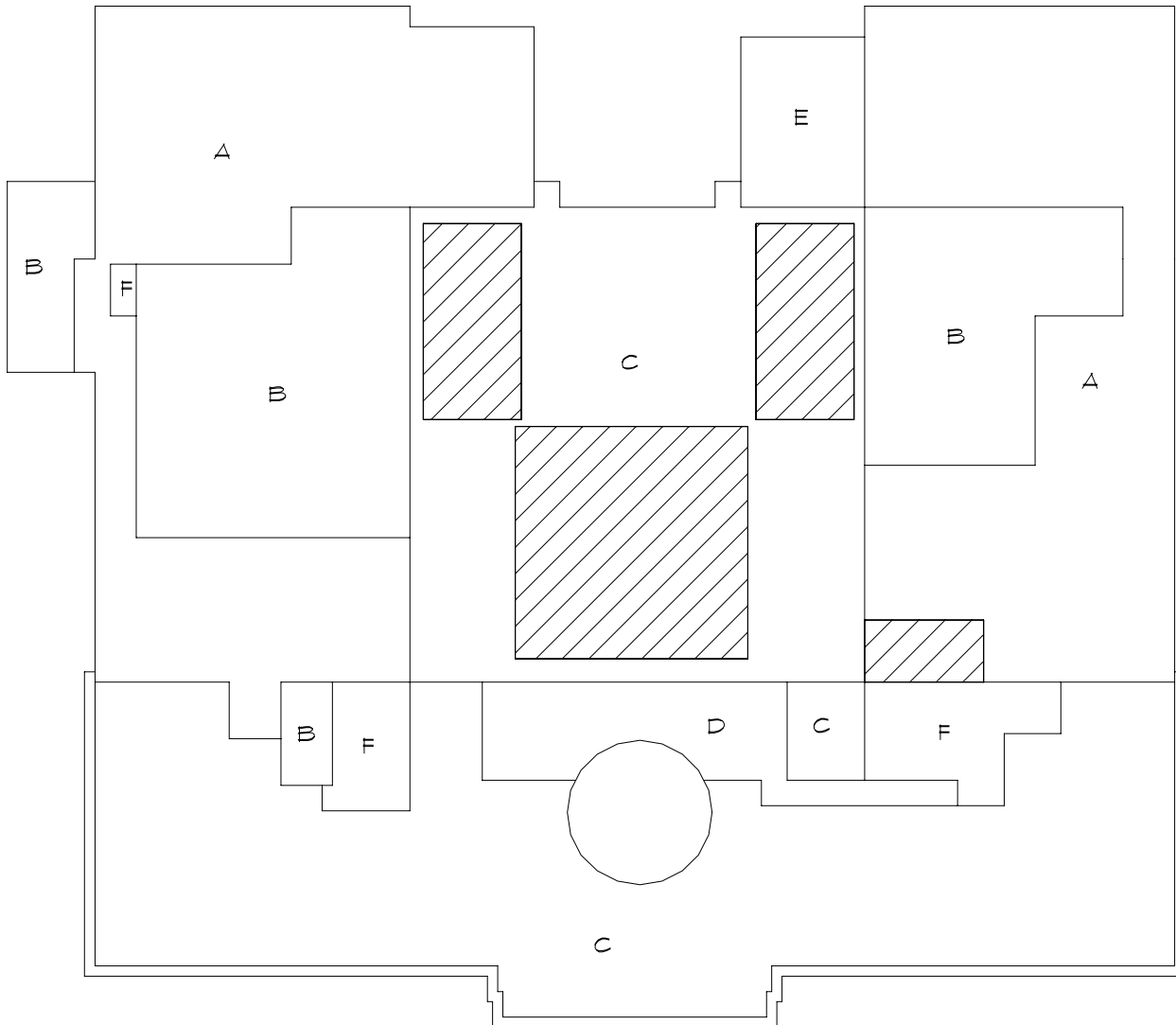
# Roof ID

**Building:** EB049 - Tate Lab of Physics - (116 Church Street SE Minneapolis)

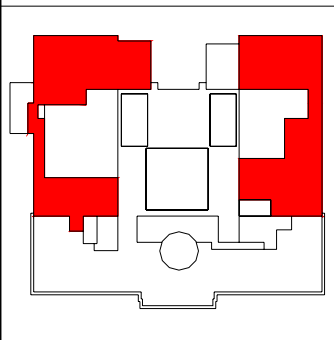
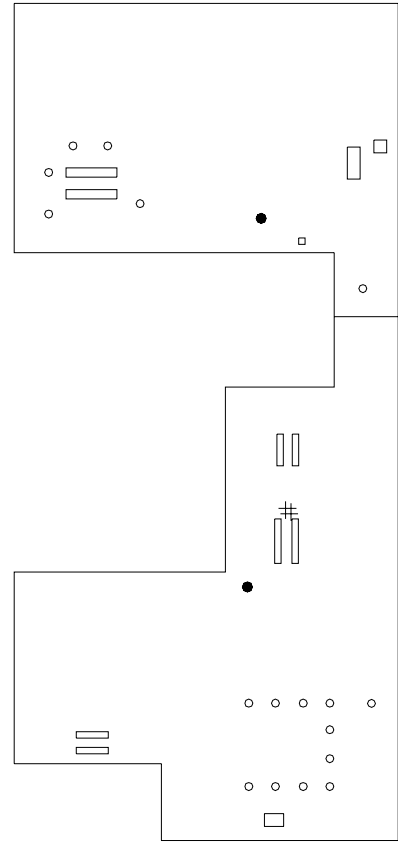
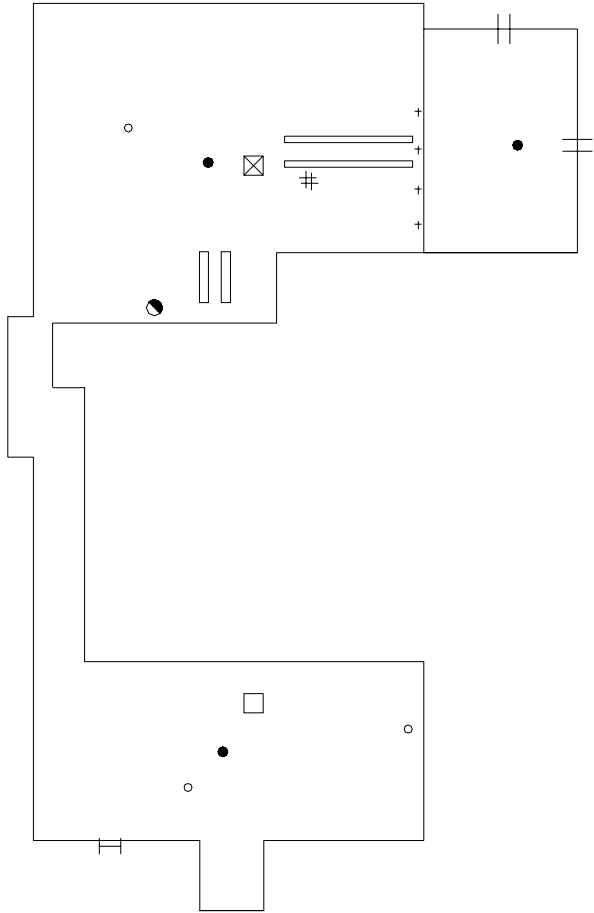
**Roof Access:** Penthouse area B. Access to lower section C through mens restroom window (next to RM225) ladder in storage closet 229.

**Total Area:** 32,536 sf

<u>A</u>	<u>11,074</u>	<u>E</u>	<u>792</u>
<u>B</u>	<u>5,810</u>	<u>F</u>	<u>1,103</u>
<u>C</u>	<u>12,642</u>		
<u>D</u>	<u>1,115</u>		

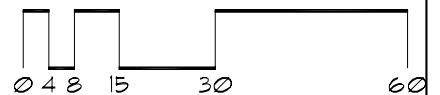


# Roof Corrective Action

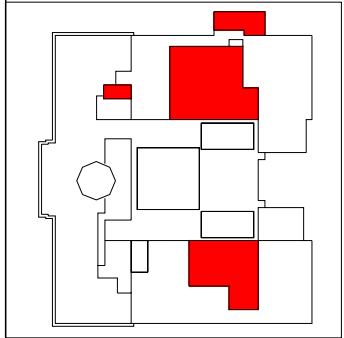
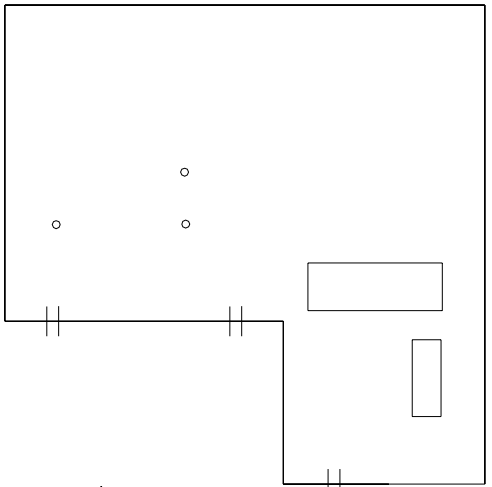
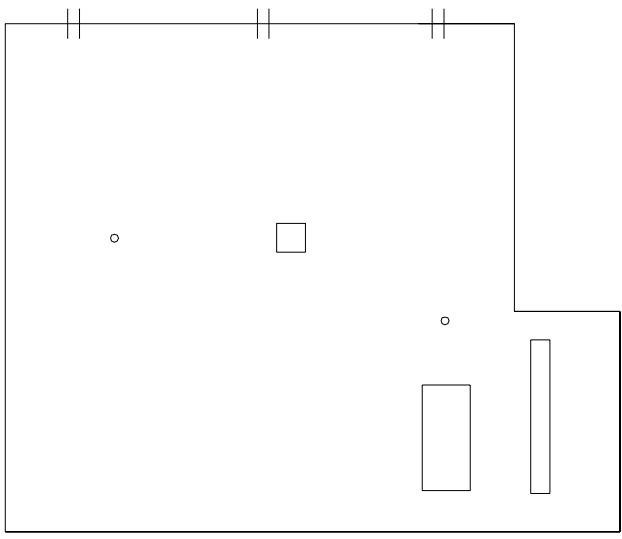
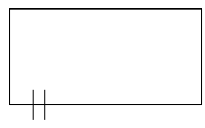
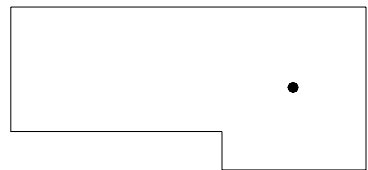


### SYMBOLS KEY

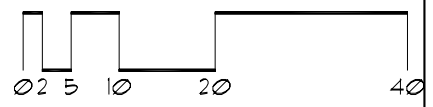
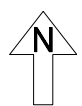
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- # PITCH PAN
- ++ SCUPPER
- ⊗ SKYLIGHT
- ≡ SLEEPER CURB
- I LADDER
- Ⓧ DEFECT-REPAIR



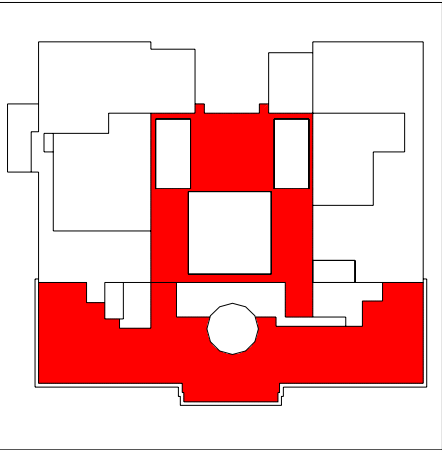
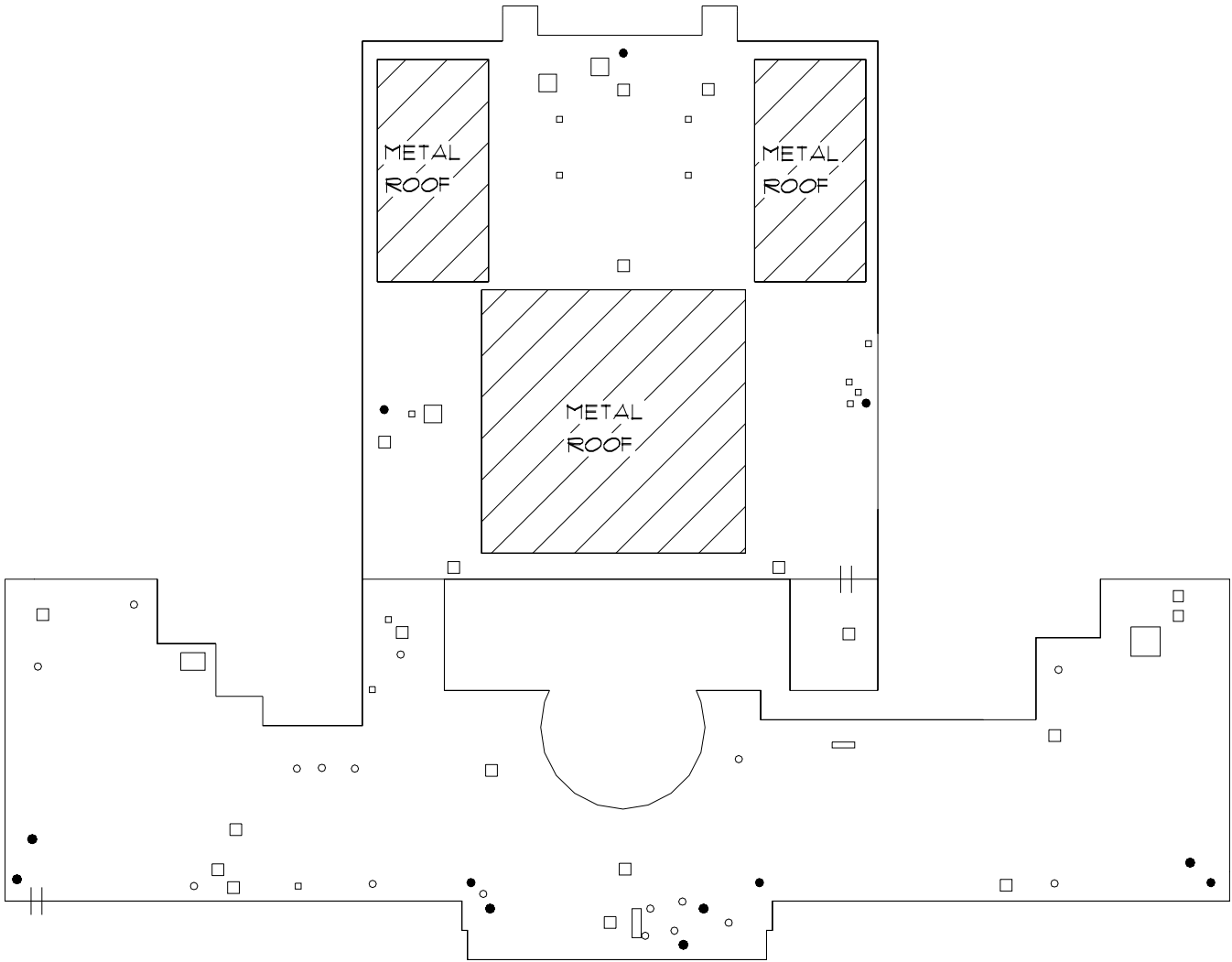
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ⊥ SCUPPER
  - Ⓢ DEFECT-REPAIR

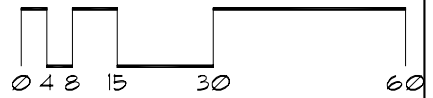


# Roof Corrective Action

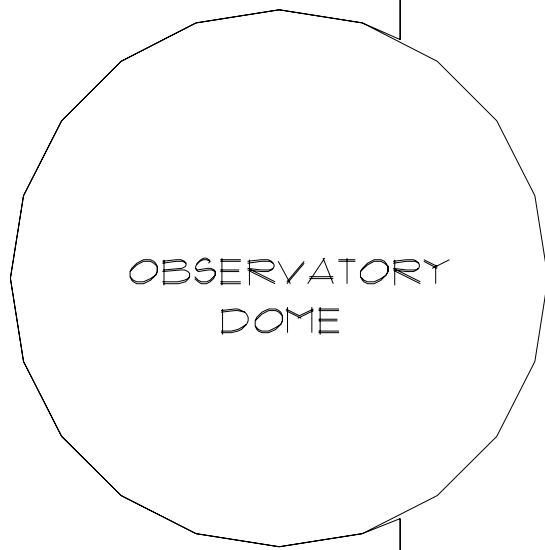


## SYMBOLS KEY

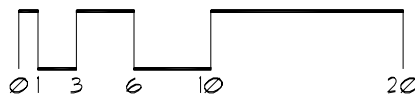
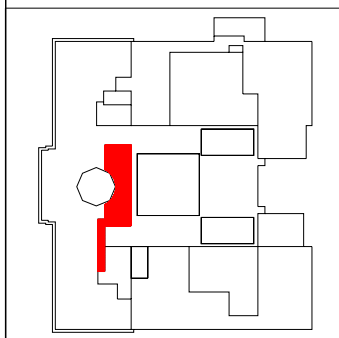
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ⊥ SCUPPER
- ⊙ DEFECT-NO REPAIR
- ⊗ DEFECT-REPAIR



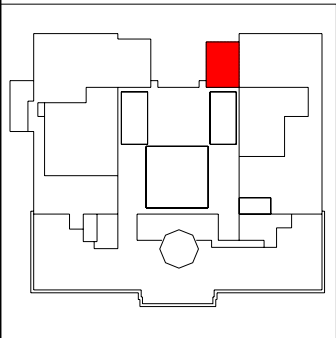
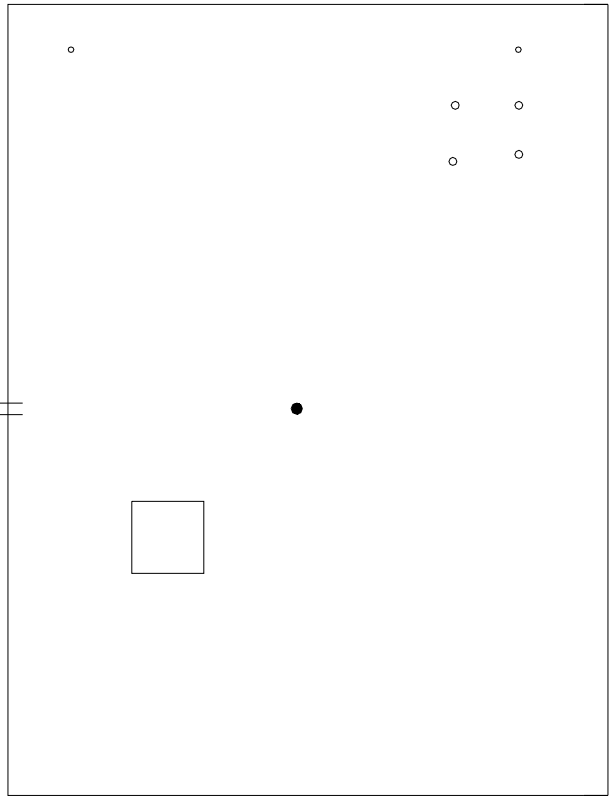
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER

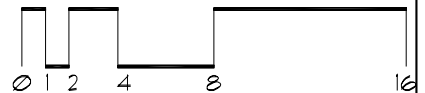


# Roof Corrective Action



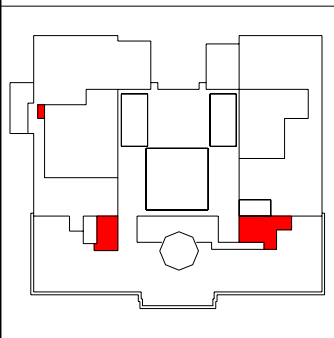
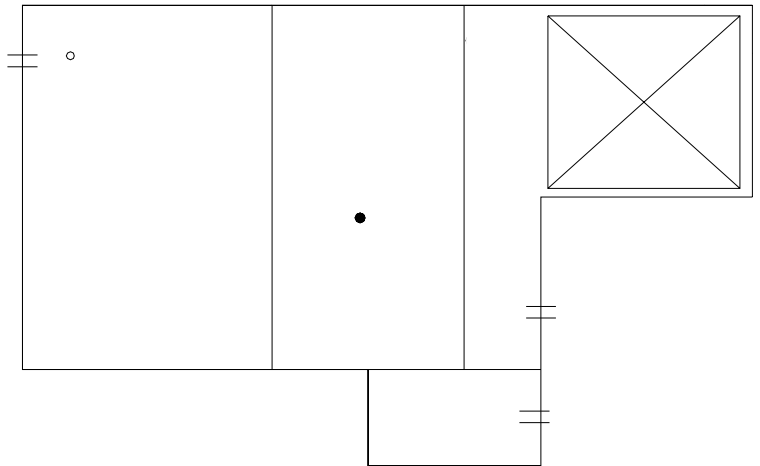
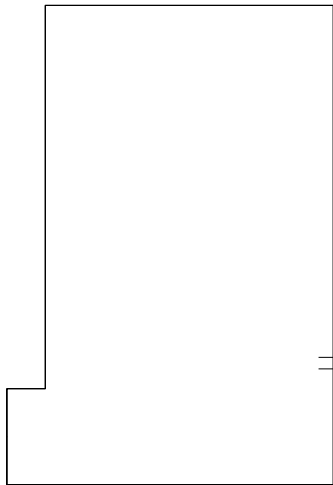
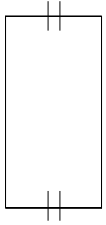
## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ≡ SCUPPER



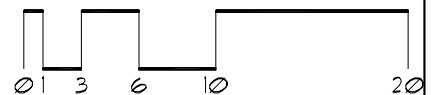


# Roof Corrective Action



## SYMBOLS KEY

- ROOF DRAIN
- VENT STACK
- ⊢ SCUPPER
- ⊠ SKYLIGHT
- ⓪ DEFECT-NO REPAIR



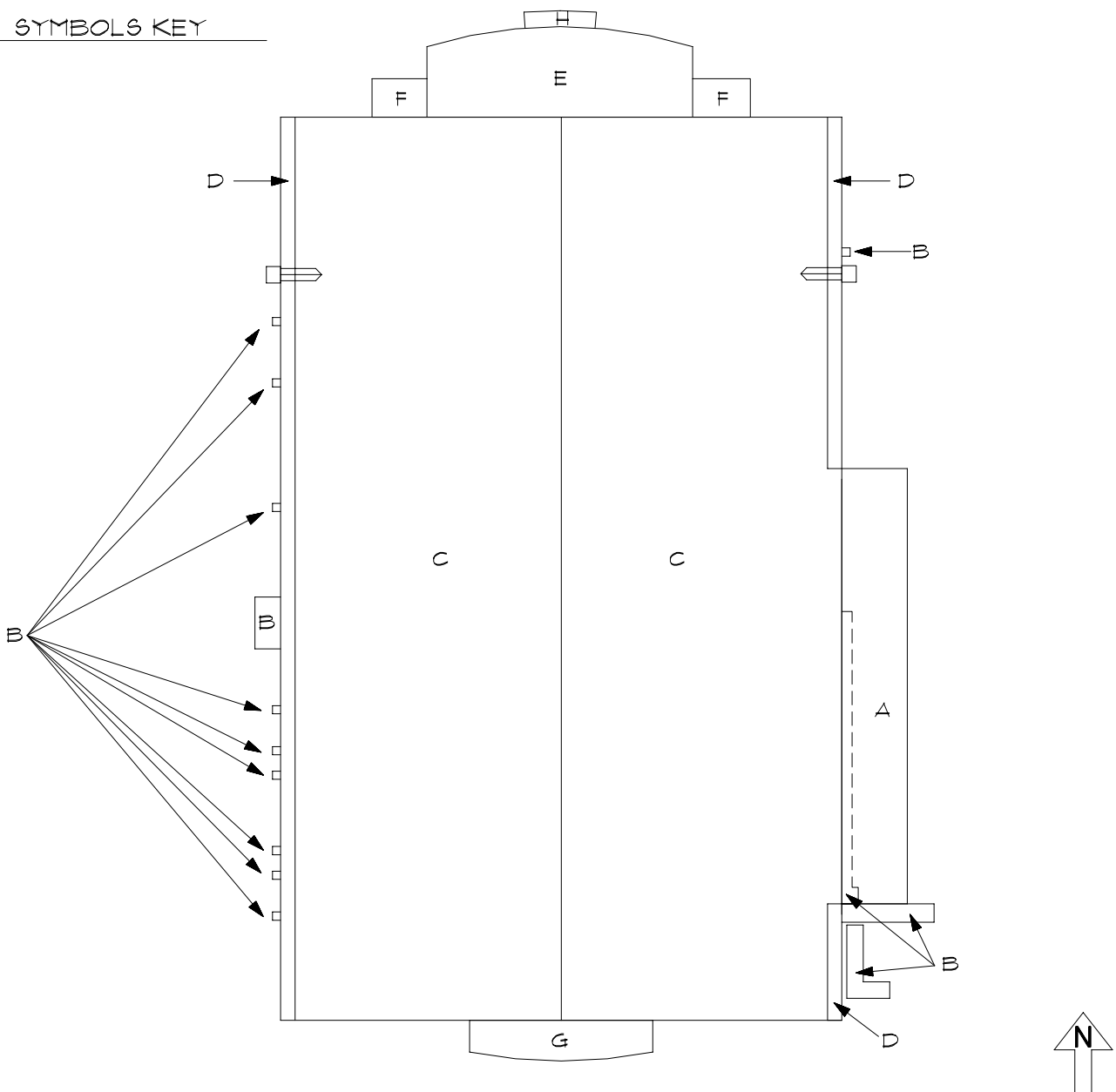
# Roof ID

Building: 050 - Williams Arena - (1925 University Avenue SE)

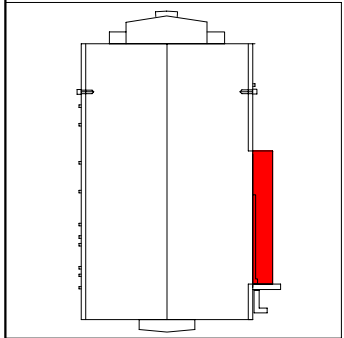
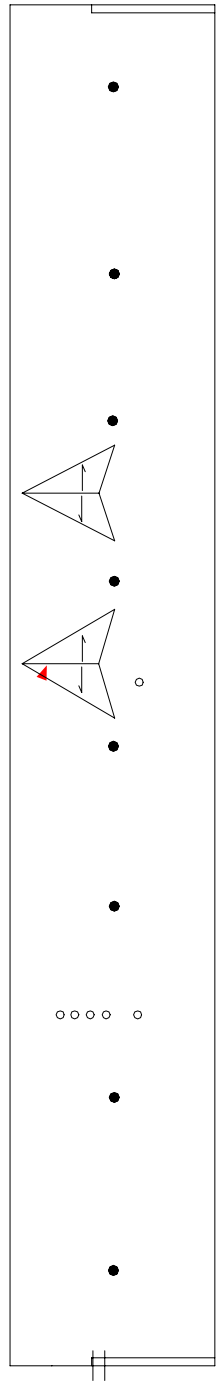
Total Area: 138,246 sf

<u>A</u>	<u>6,816 sf</u>	<u>F</u>	<u>1,000 sf</u>
<u>B</u>	<u>1,984 sf</u>	<u>G</u>	<u>1,734 sf</u>
<u>C</u>	<u>116,411 sf</u>	<u>H</u>	<u>284 sf</u>
<u>D</u>	<u>4,697 sf</u>		
<u>E</u>	<u>5,320 sf</u>		

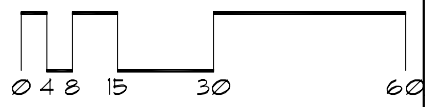
## SYMBOLS KEY



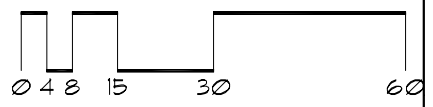
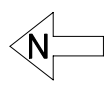
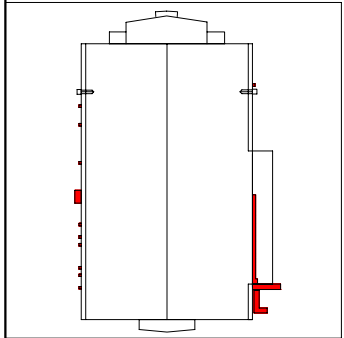
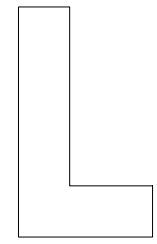
# Roof Corrective Action



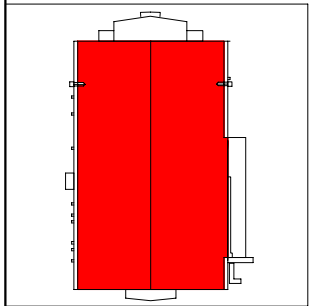
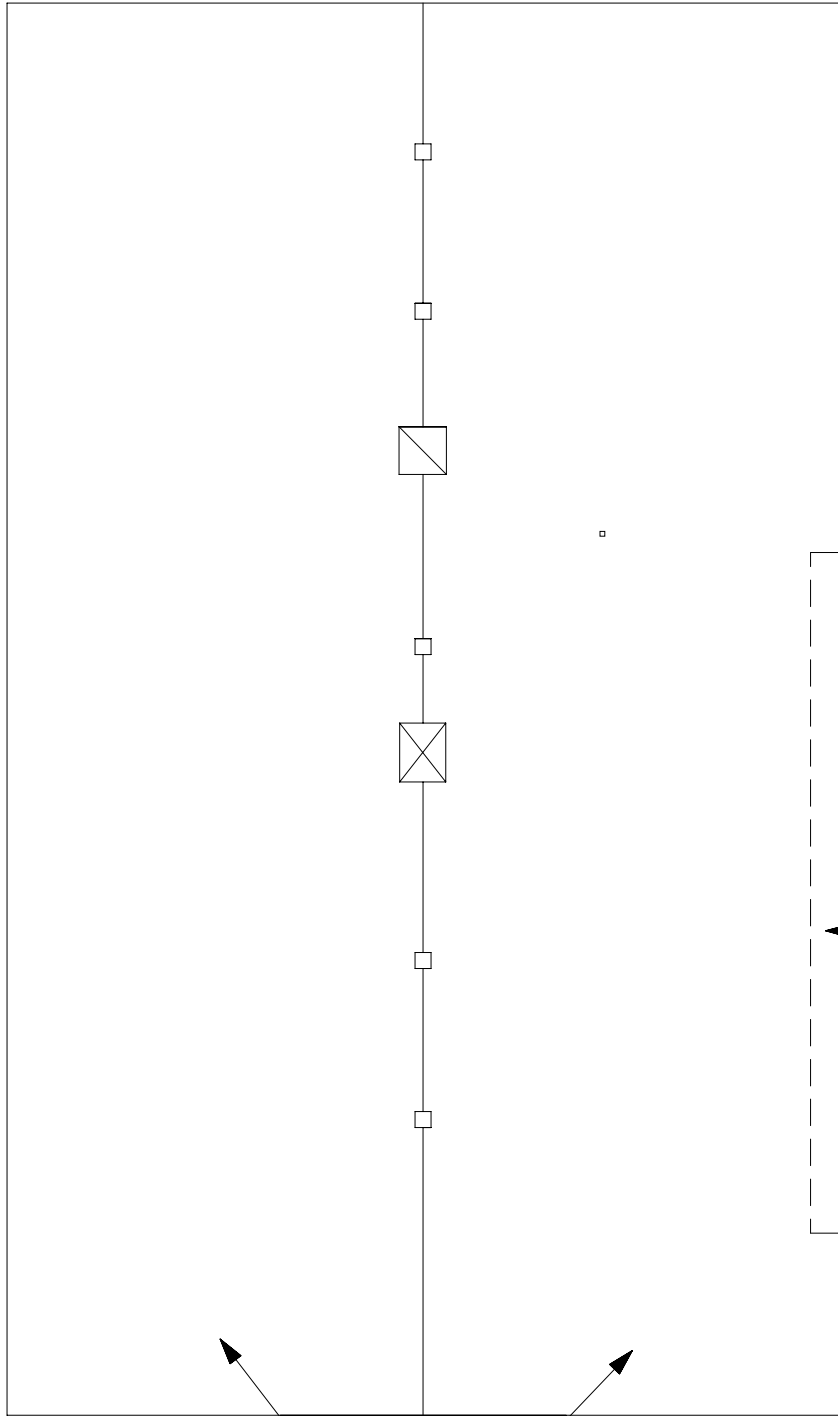
- SYMBOLS KEY**
- ROOF DRAIN
  - ▾ SLOPE DIRECTION
  - VENT STACK
  - ⊥ SCUPPER
  - ① D



# Roof Corrective Action

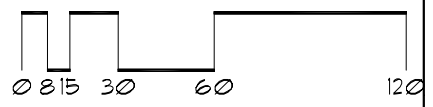
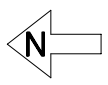


# Roof Corrective Action

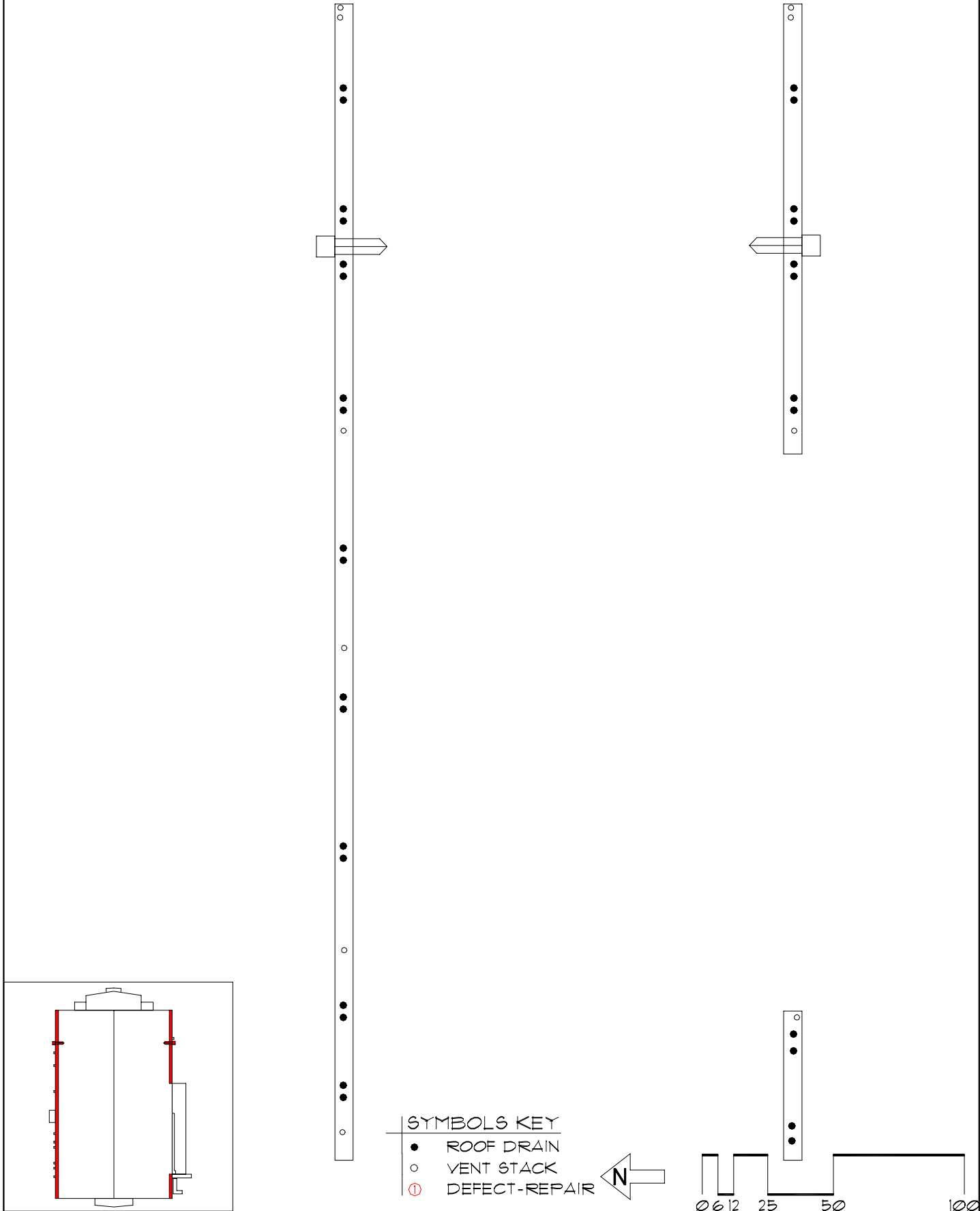


- SYMBOLS KEY**
- ROOF CURB
  - ⊠ SKYLIGHT
  - ⊞ ROOF HATCH
  - Ⓢ DEFECT-REPAIR

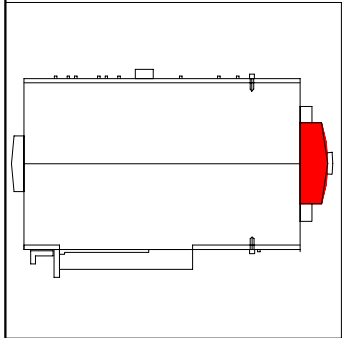
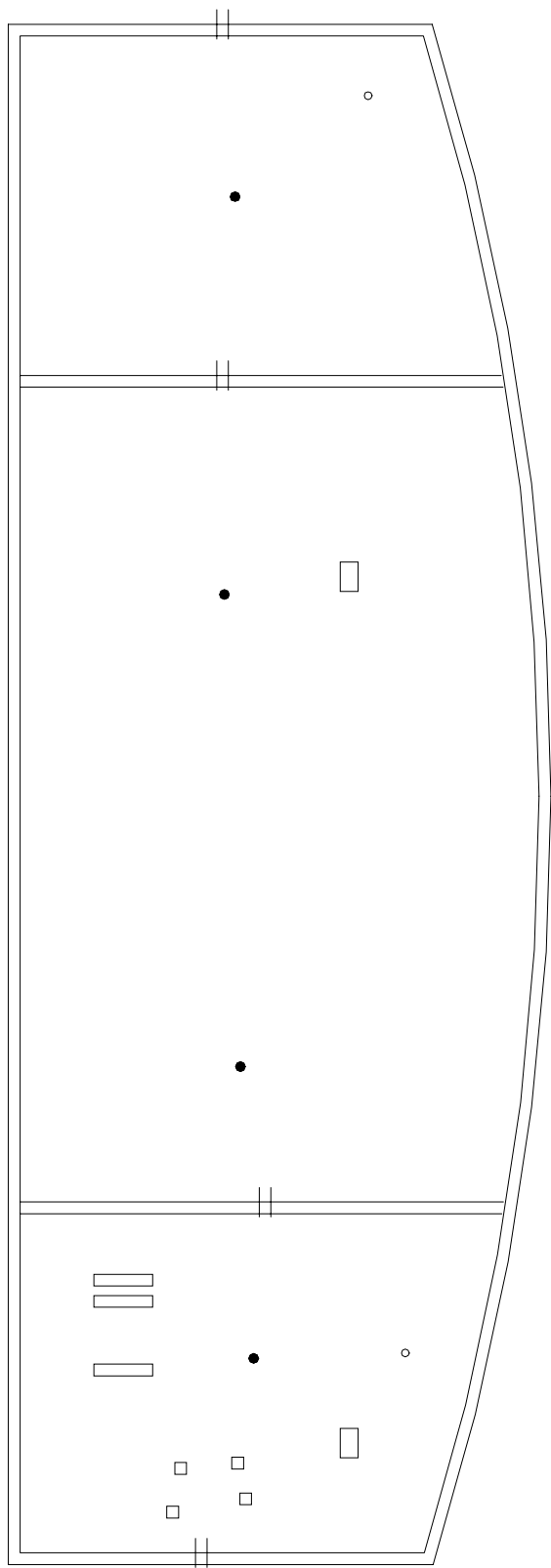
METAL



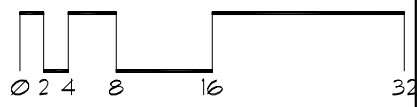
# Roof Corrective Action



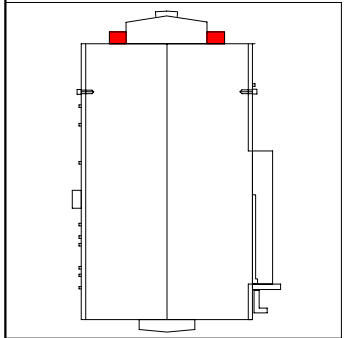
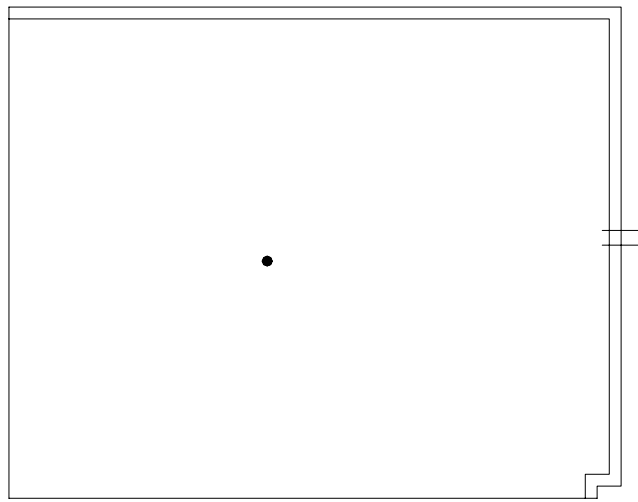
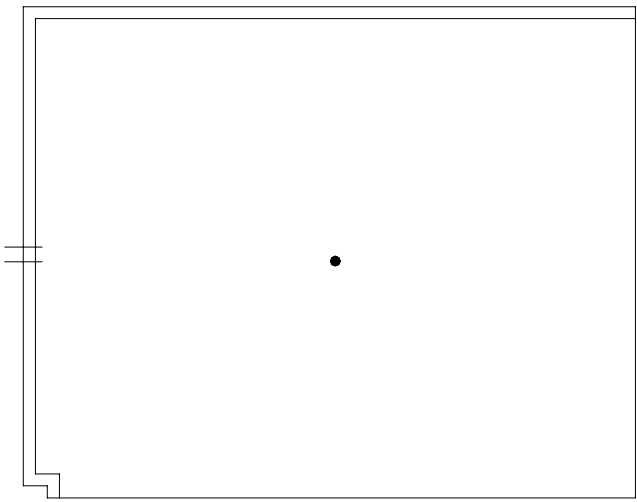
# Roof Corrective Action



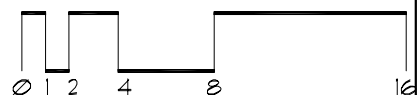
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - || SCUPPER
  - ⓧ DEFECT-REPAIR



# Roof Corrective Action

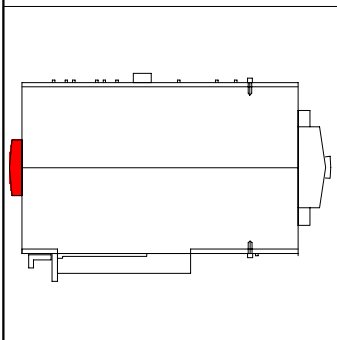
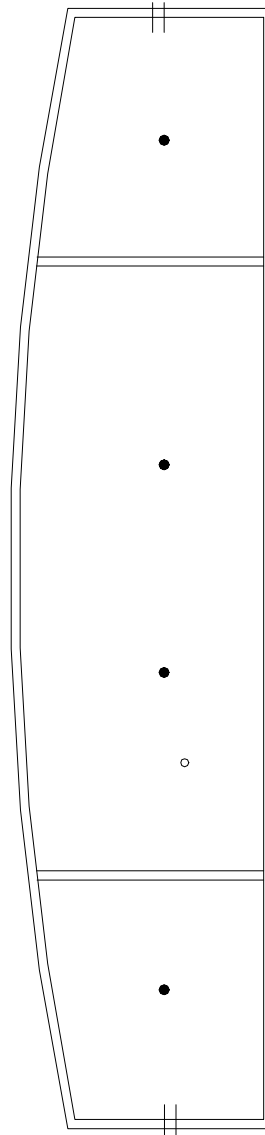


**SYMBOLS KEY**  
● ROOF DRAIN  
|| SCUPPER  
Ⓢ DEFECT-REPAIR

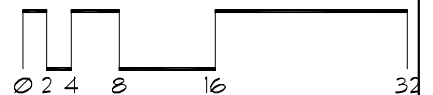




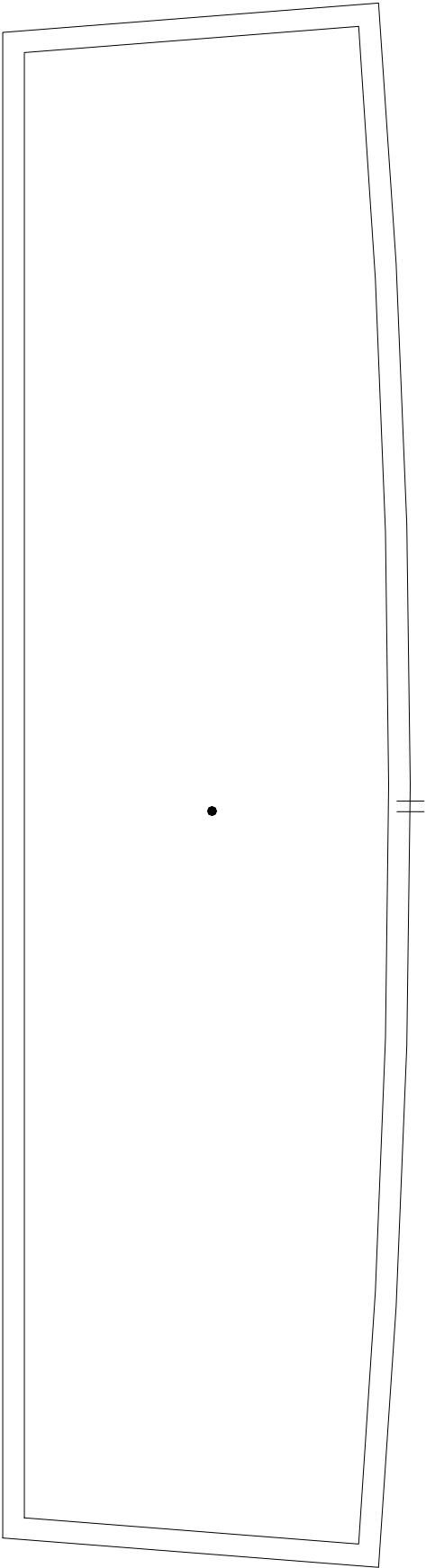
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF DRAIN
  - VENT STACK
  - || SCUPPER
  - Ⓢ DEFECT-REPAIR

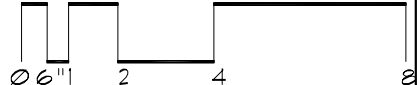
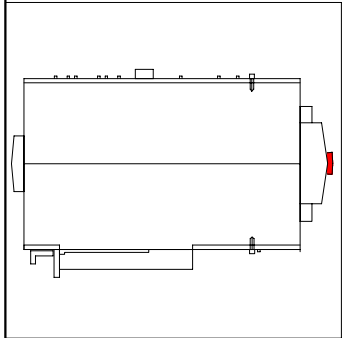


# Roof Corrective Action



## SYMBOLS KEY

- ROOF DRAIN
- † SCUPPER
- Ⓢ DEFECT-REPAIR



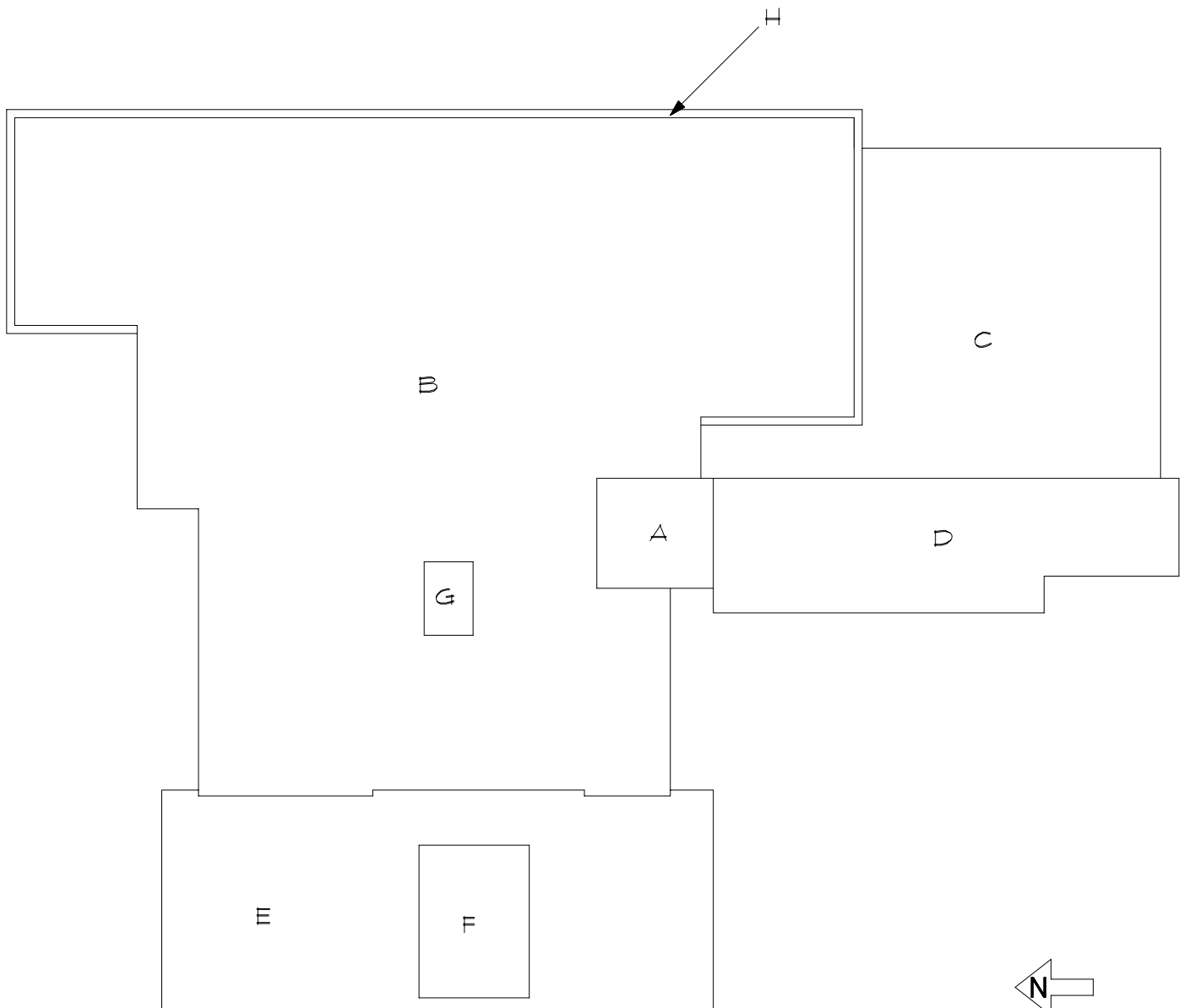
# Roof ID

**Building:** EB051 - Fraser Hall - (106 Pleasant Street SE Minneapolis)

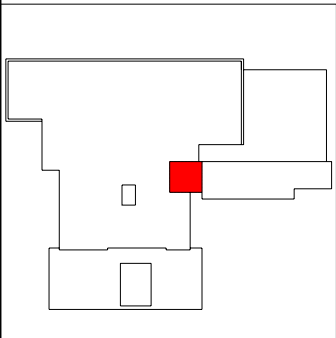
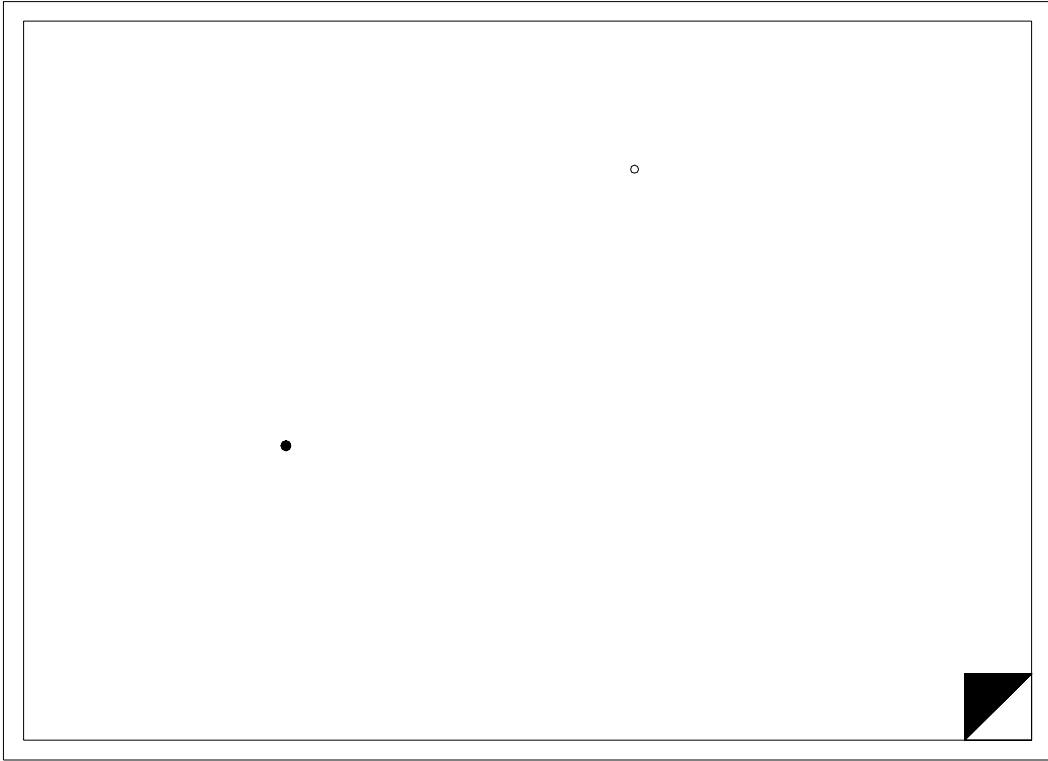
**Roof Access:** Front door to stairs/elevator to 3rd floor-elevaor to equipmetn room (key e-15) then e-1 key to roof D (upper levels ships ladder). Access E & F through control room 340 (metal stairs from 2nd floor stairway by room 269).

**Total Area:** 18,901 sf

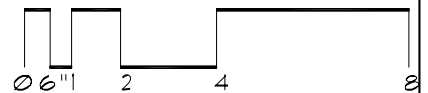
<u>A</u>	<u>315</u>	<u>E</u>	<u>2,405</u>
<u>B</u>	<u>10,760</u>	<u>F</u>	<u>475</u>
<u>C</u>	<u>3,020</u>	<u>G</u>	<u>96</u>
<u>D</u>	<u>1,540</u>	<u>H</u>	<u>290</u>



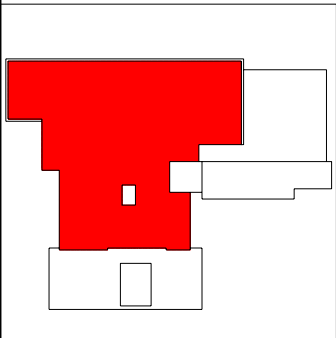
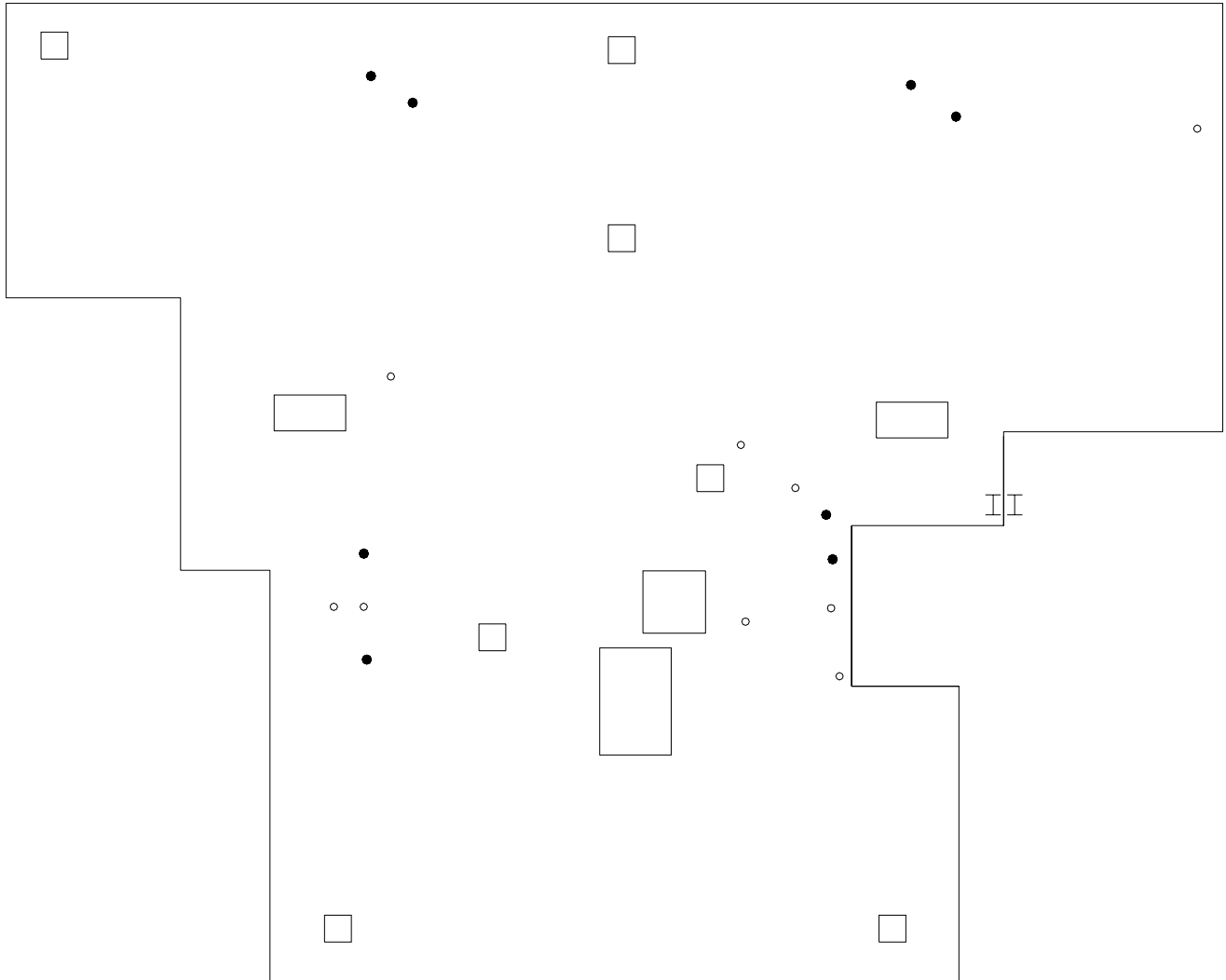
# Roof Corrective Action



- SYMBOLS KEY
- ROOF DRAIN
  - VENT STACK
  - CHIMNEY DEFECT-REPAIR

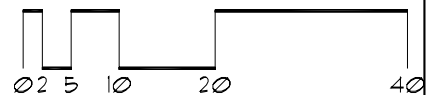


# Roof Corrective Action

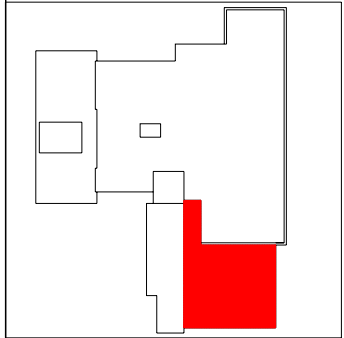
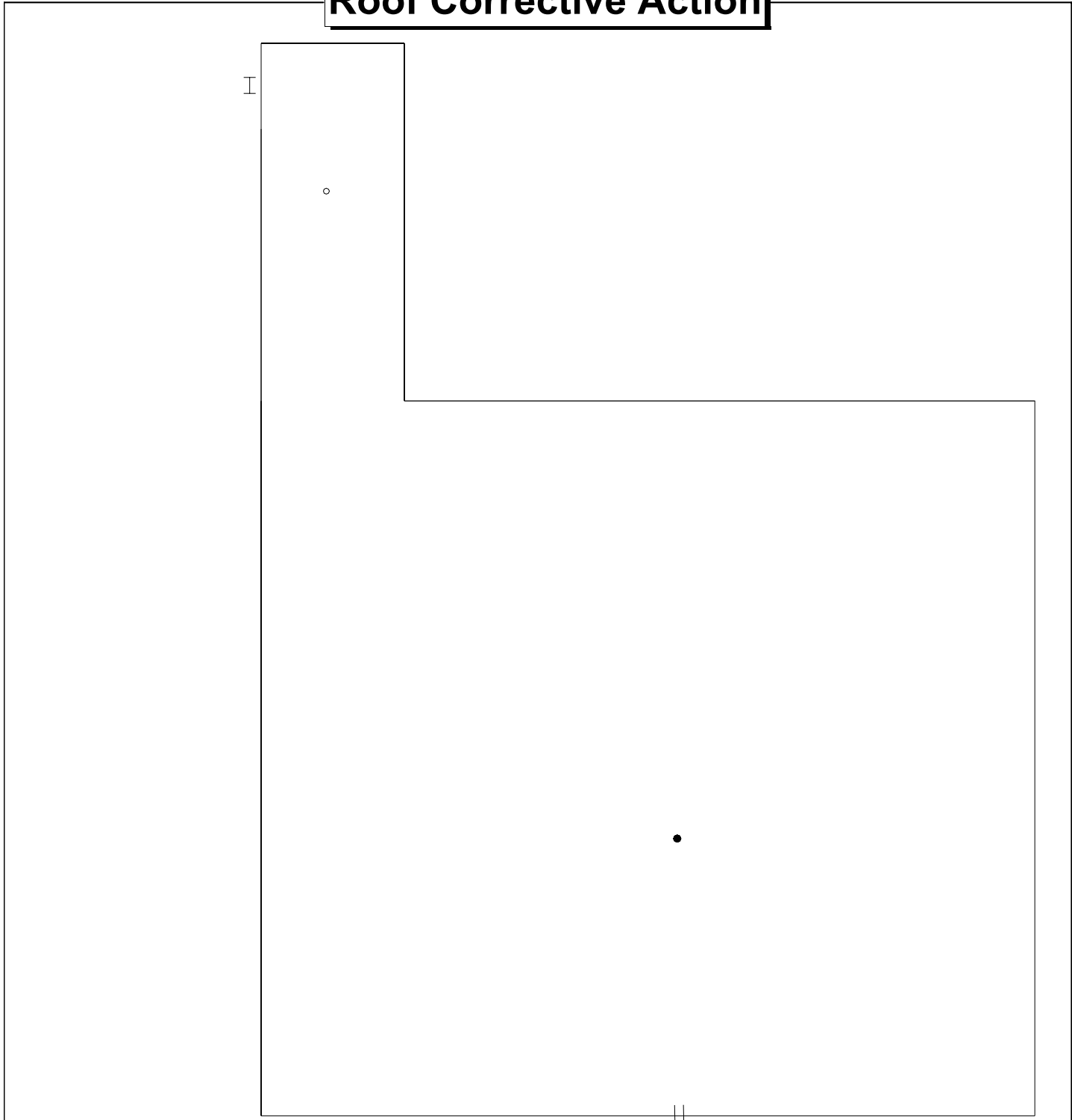


## SYMBOLS KEY

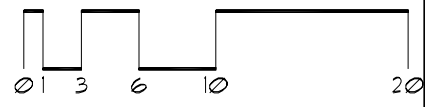
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- † SCUPPER
- I LADDER



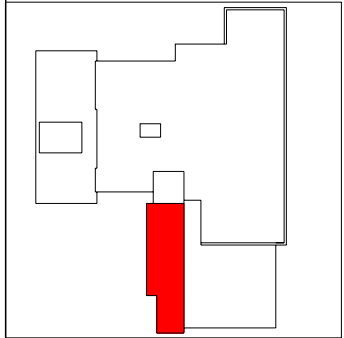
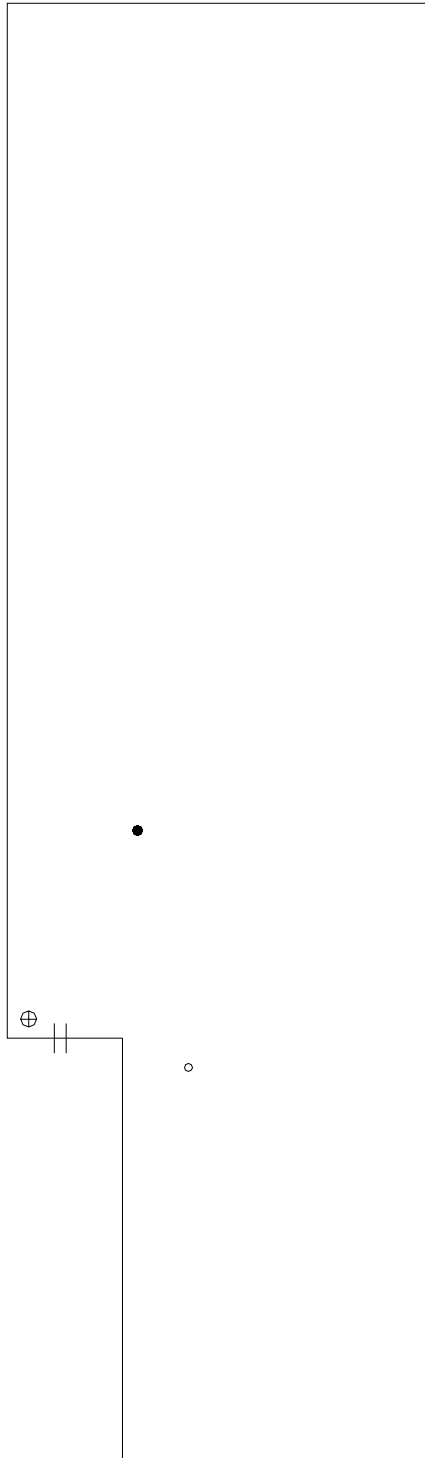
# Roof Corrective Action



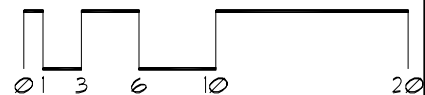
- SYMBOLS KEY
- ROOF DRAIN
  - o VENT STACK
  - I LADDER



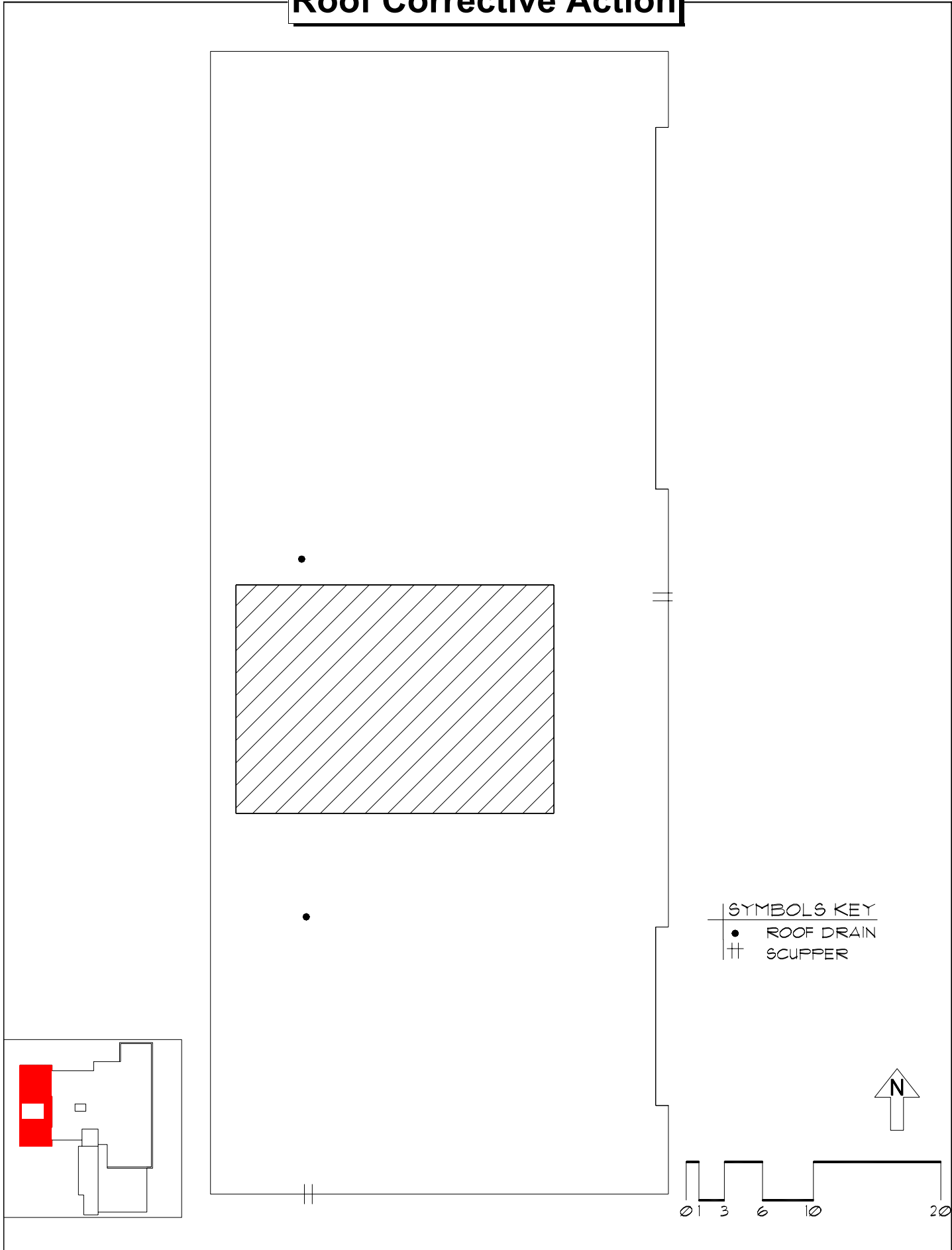
# Roof Corrective Action



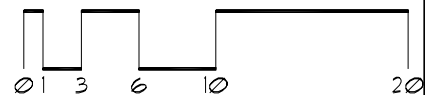
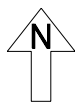
- SYMBOLS KEY**
- ROOF DRAIN
  - VENT STACK
  - ⊕ FLASHED PENETRATION



# Roof Corrective Action

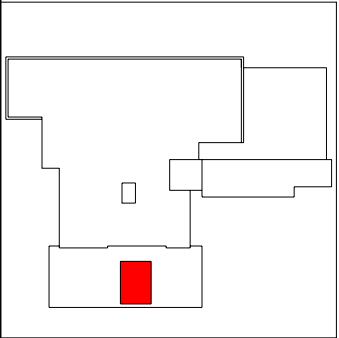
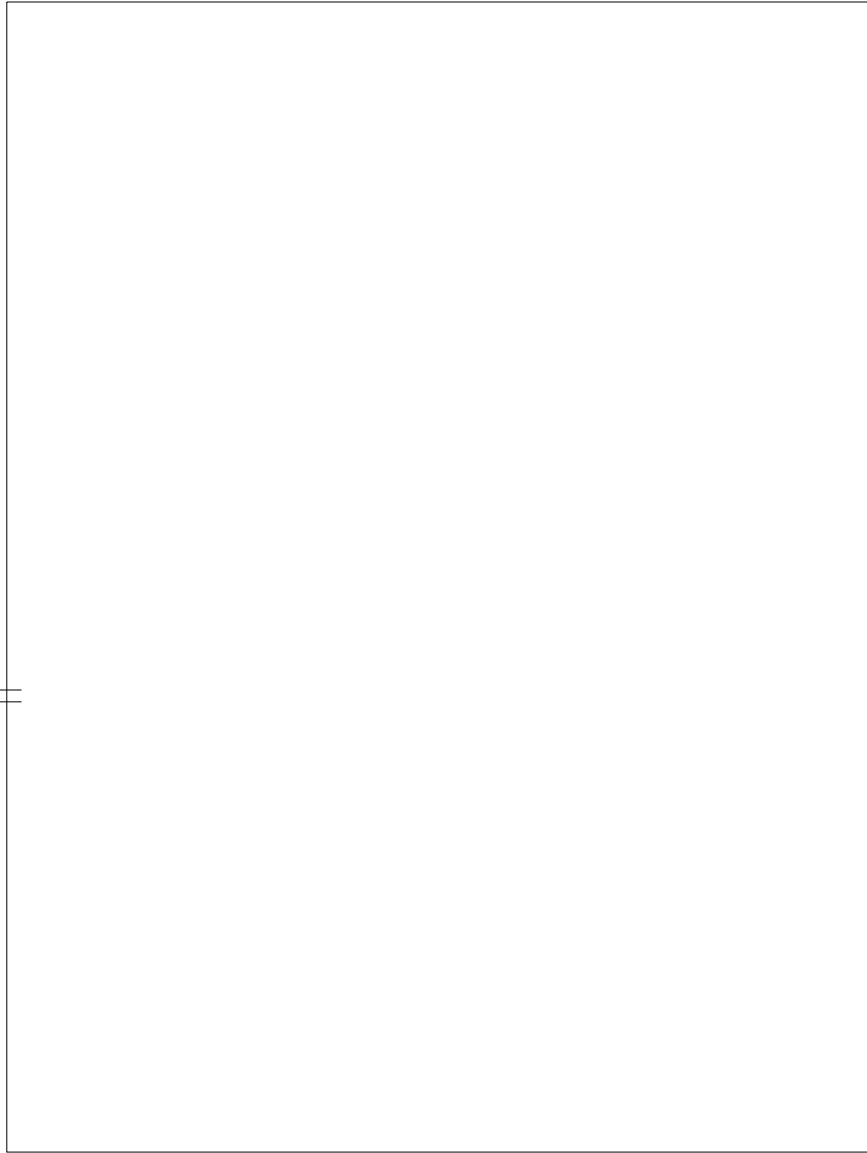


SYMBOLS KEY  
● ROOF DRAIN  
|| SCUPPER

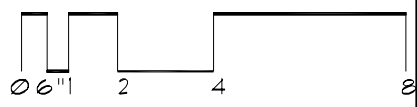




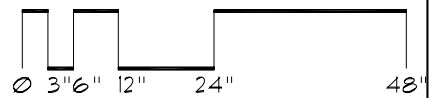
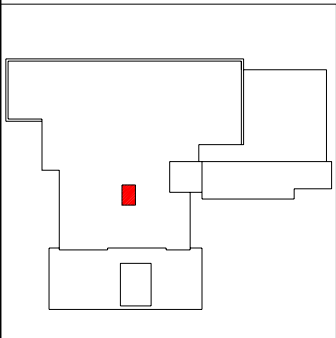
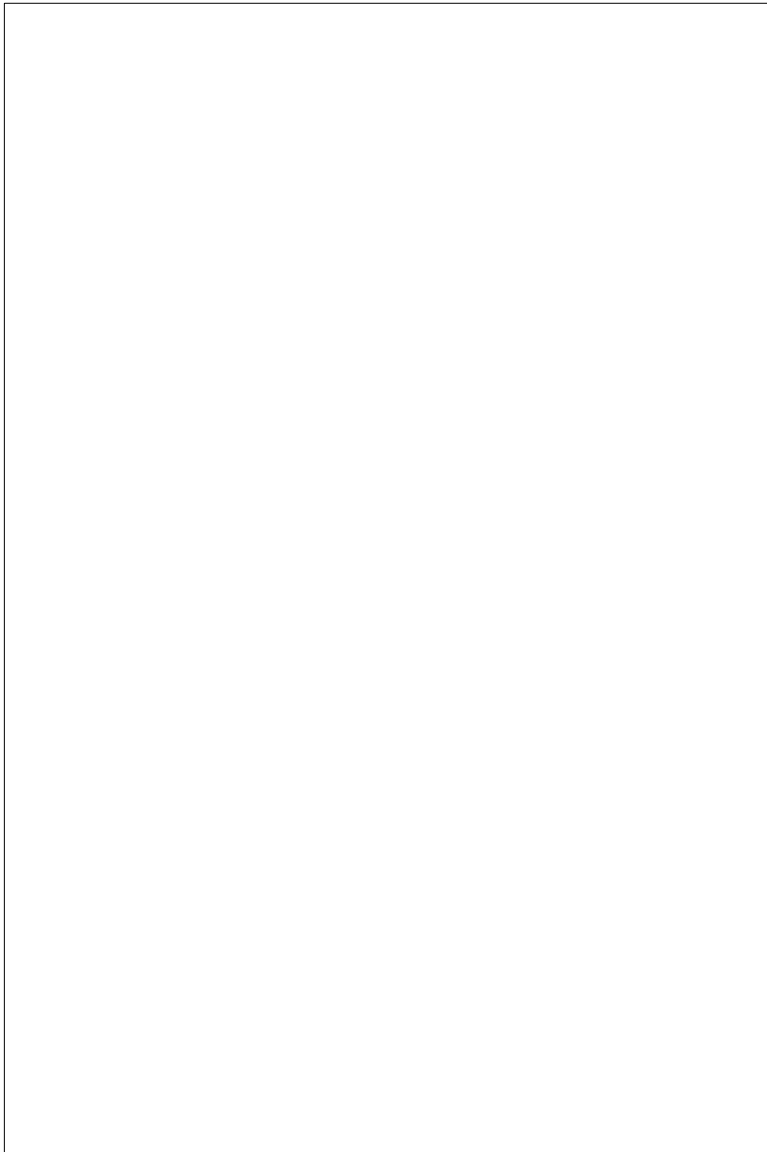
# Roof Corrective Action



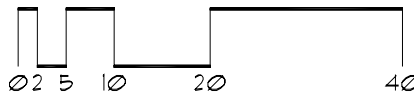
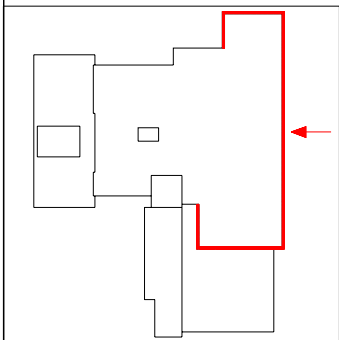
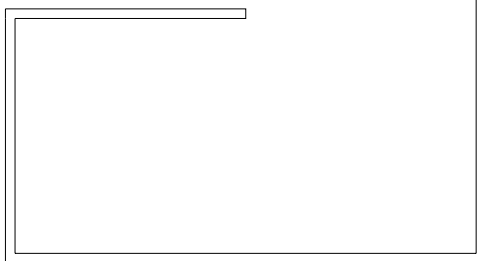
SYMBOLS KEY  
|| SCUPPER  
⓪ DEFECT-NO REPAIR



# Roof Corrective Action



# Roof Corrective Action



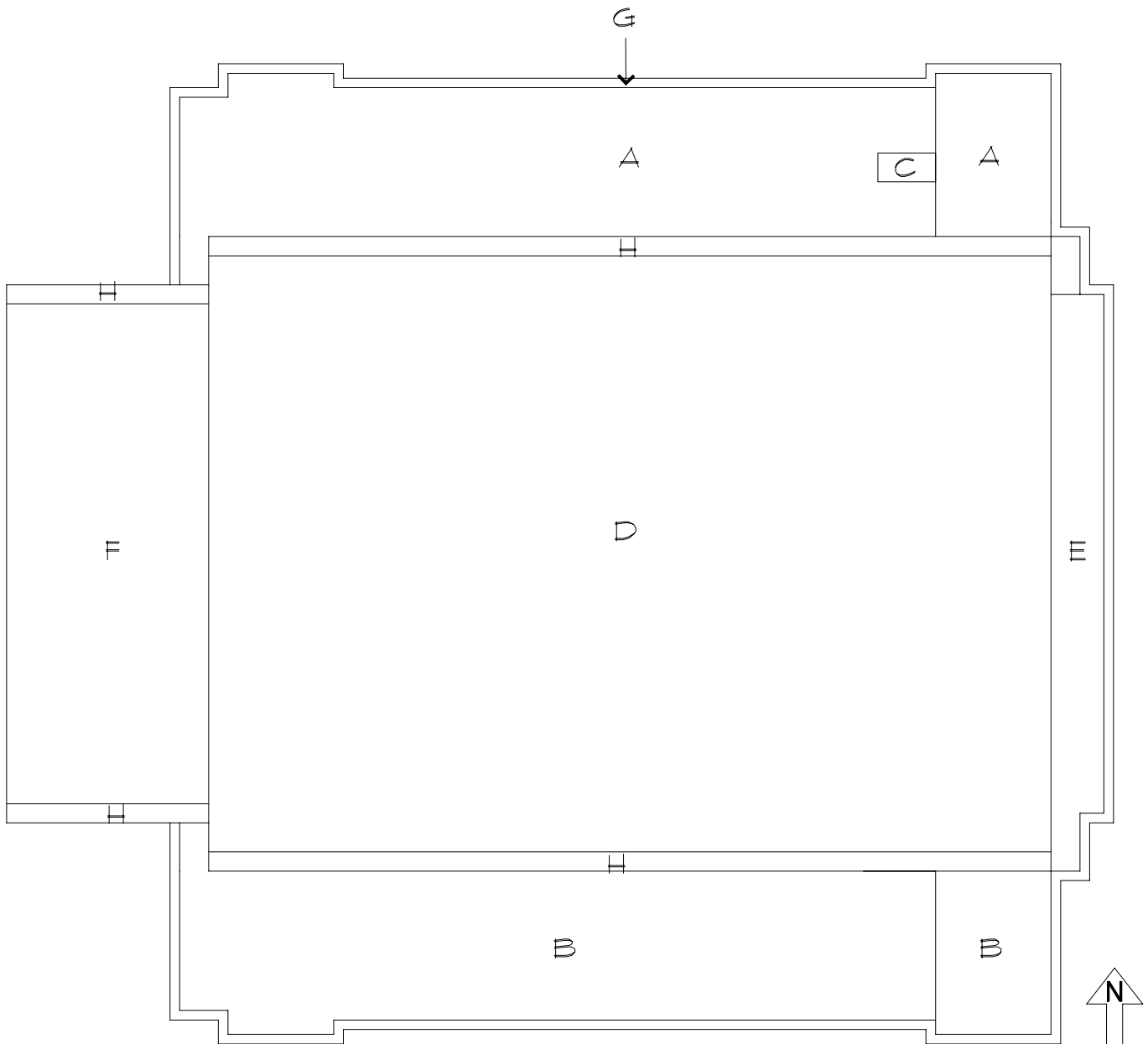
# Roof ID

**Building:** EB053 - Northrop Auditorium - (84 Church Street SE Minneapolis)

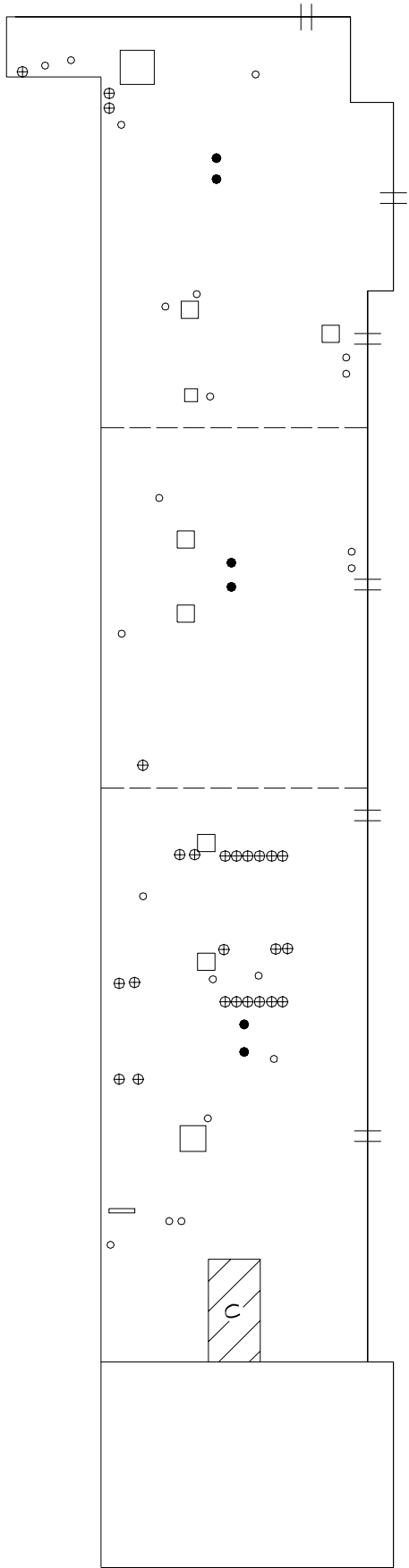
**Roof Access:** Room 302, El key Room 303, hatch behind stage

**Total Area:** 47,380 sf

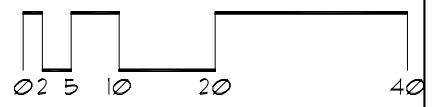
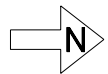
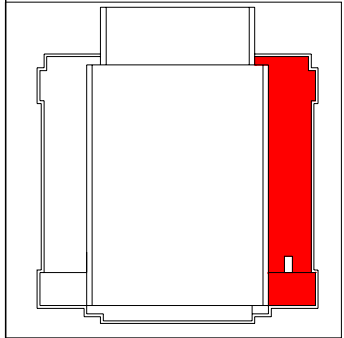
<u>A</u>	<u>5,700</u>	<u>E</u>	<u>1,332</u>
<u>B</u>	<u>5,789</u>	<u>F</u>	<u>5,468</u>
<u>C</u>	<u>78</u>	<u>G</u>	<u>1,385</u>
<u>D</u>	<u>25,916</u>	<u>H</u>	<u>1,712</u>



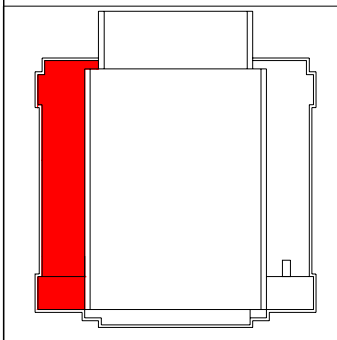
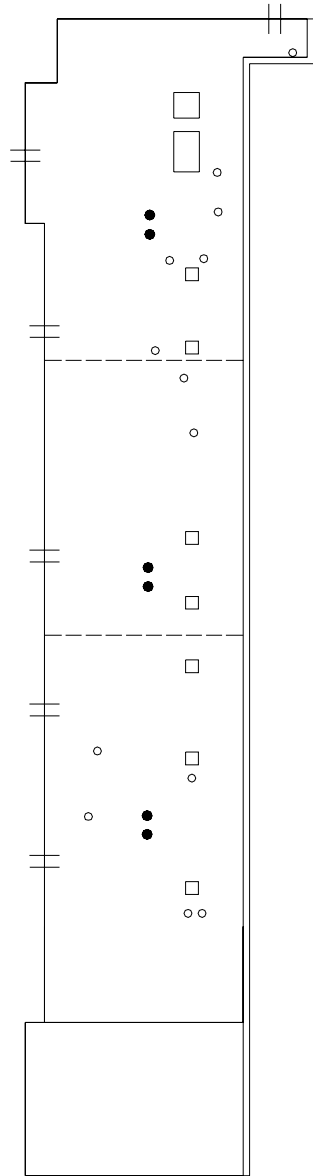
# Roof Corrective Action



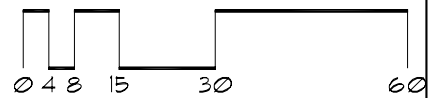
SYMBOLS KEY	
□	ROOF CURB
●	ROOF DRAIN
○	VENT STACK
⊕	FLASHED PEN.
ⓧ	DEFECT-REPAIR



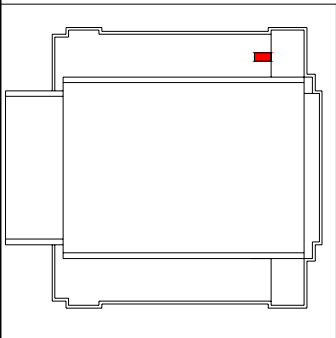
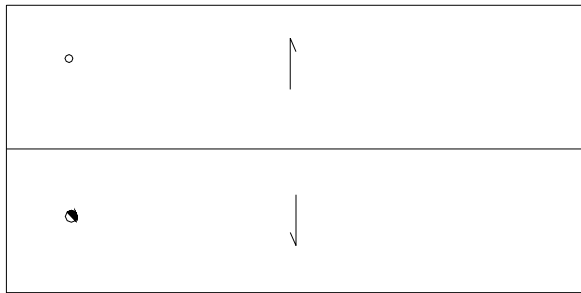
# Roof Corrective Action



SYMBOLS KEY	
⦏	SCUPPER
○	VENT STACK
●	ROOF DRAIN
□	ROOF CURB
Ⓜ	DEFECT-REPAIR

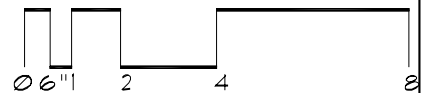


# Roof Corrective Action

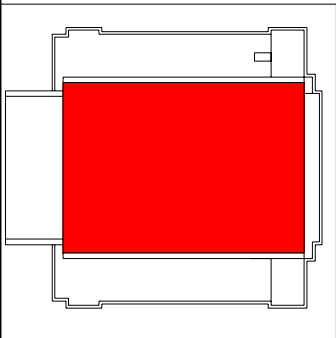
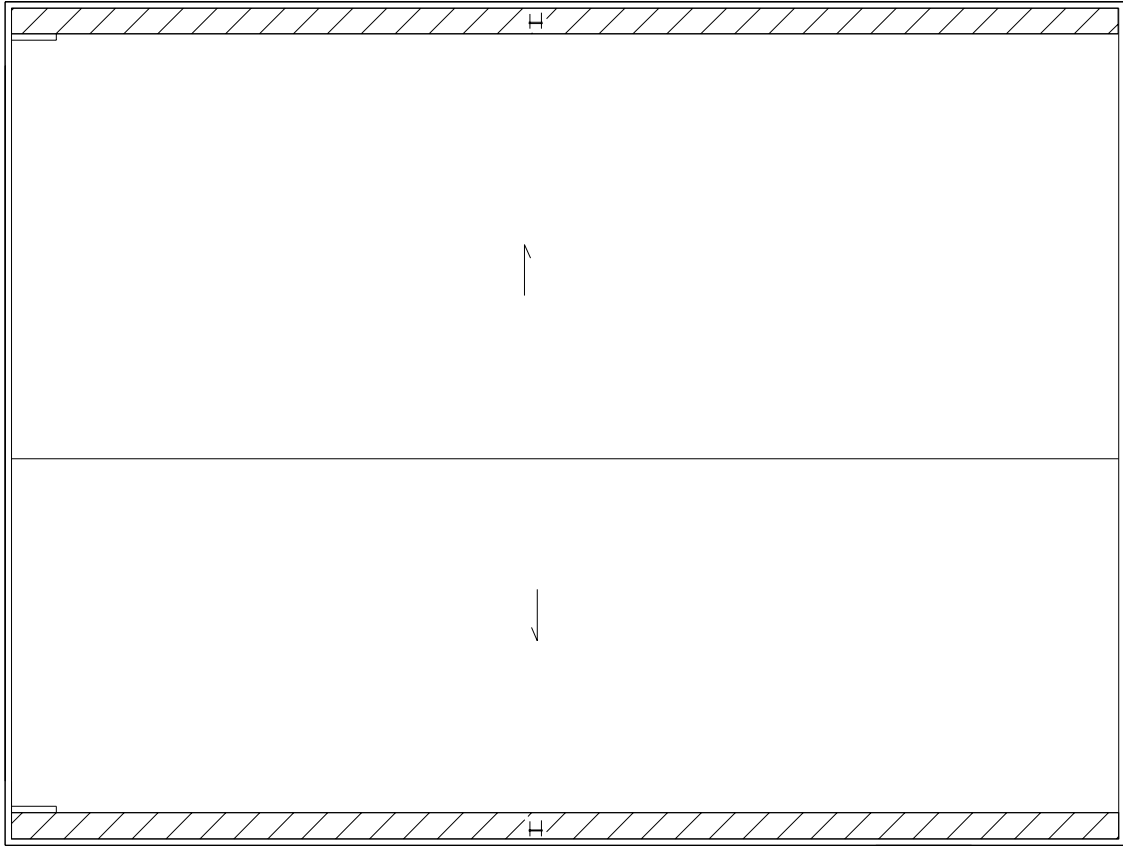


## SYMBOLS KEY

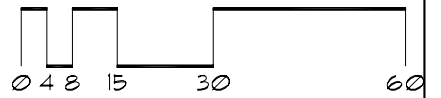
- VENT STACK
- HEAT STACK
- SLOPE DIRECTION



# Roof Corrective Action

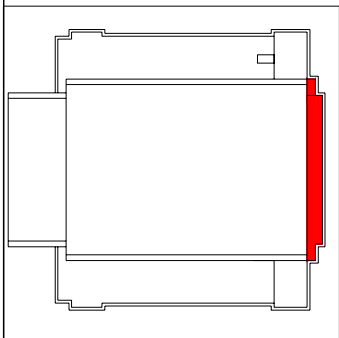
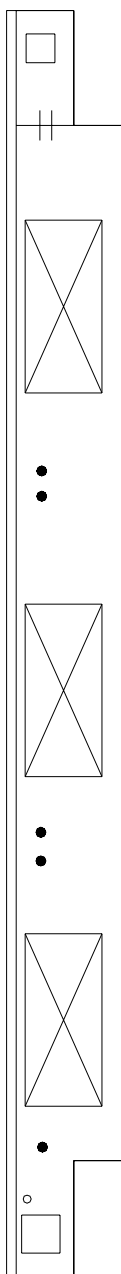


SYMBOLS KEY  
→ SLOPE DIRECTION



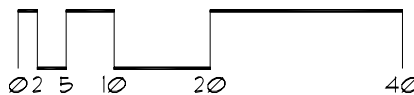


# Roof Corrective Action

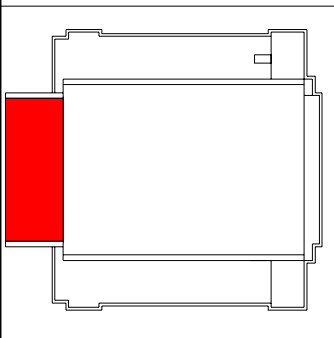
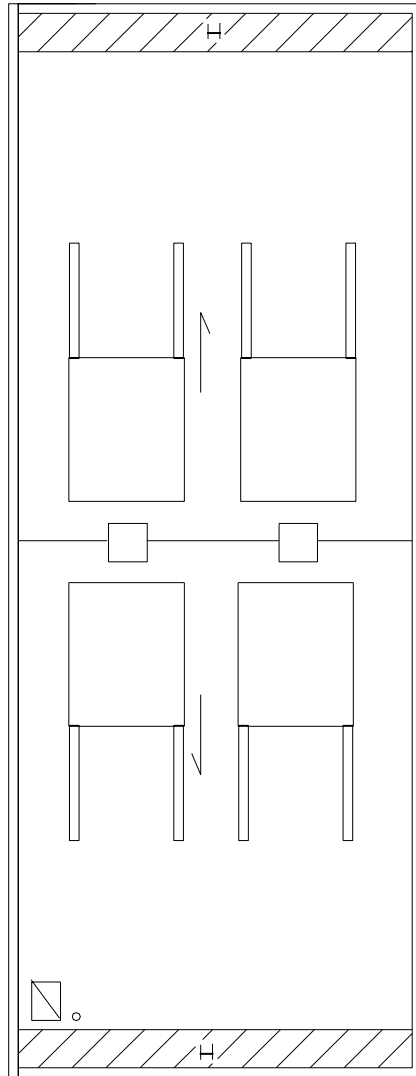


## SYMBOLS KEY

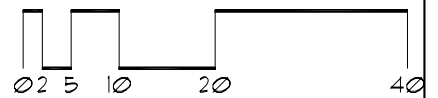
- † SCUPPER
- VENT STACK
- ROOF DRAIN
- ☒ SKYLIGHT



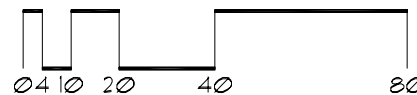
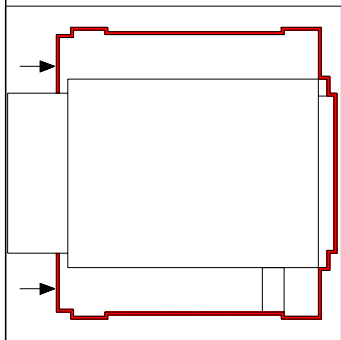
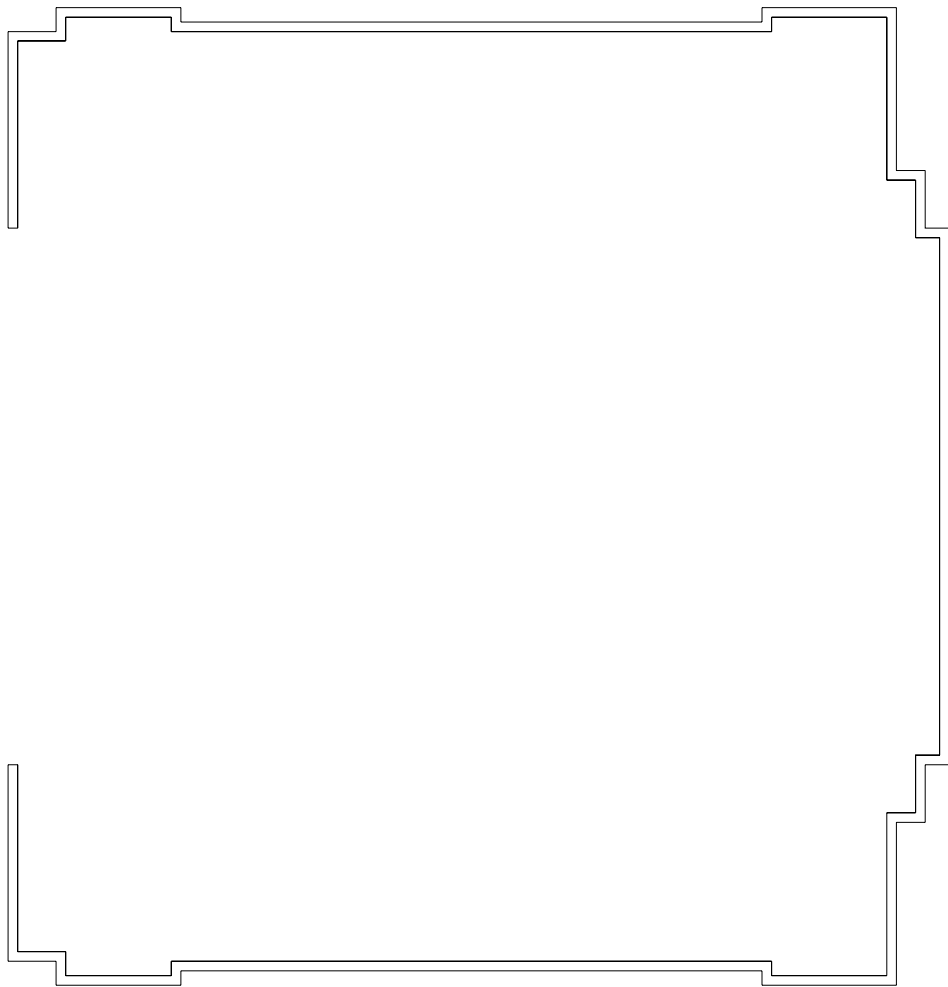
# Roof Corrective Action



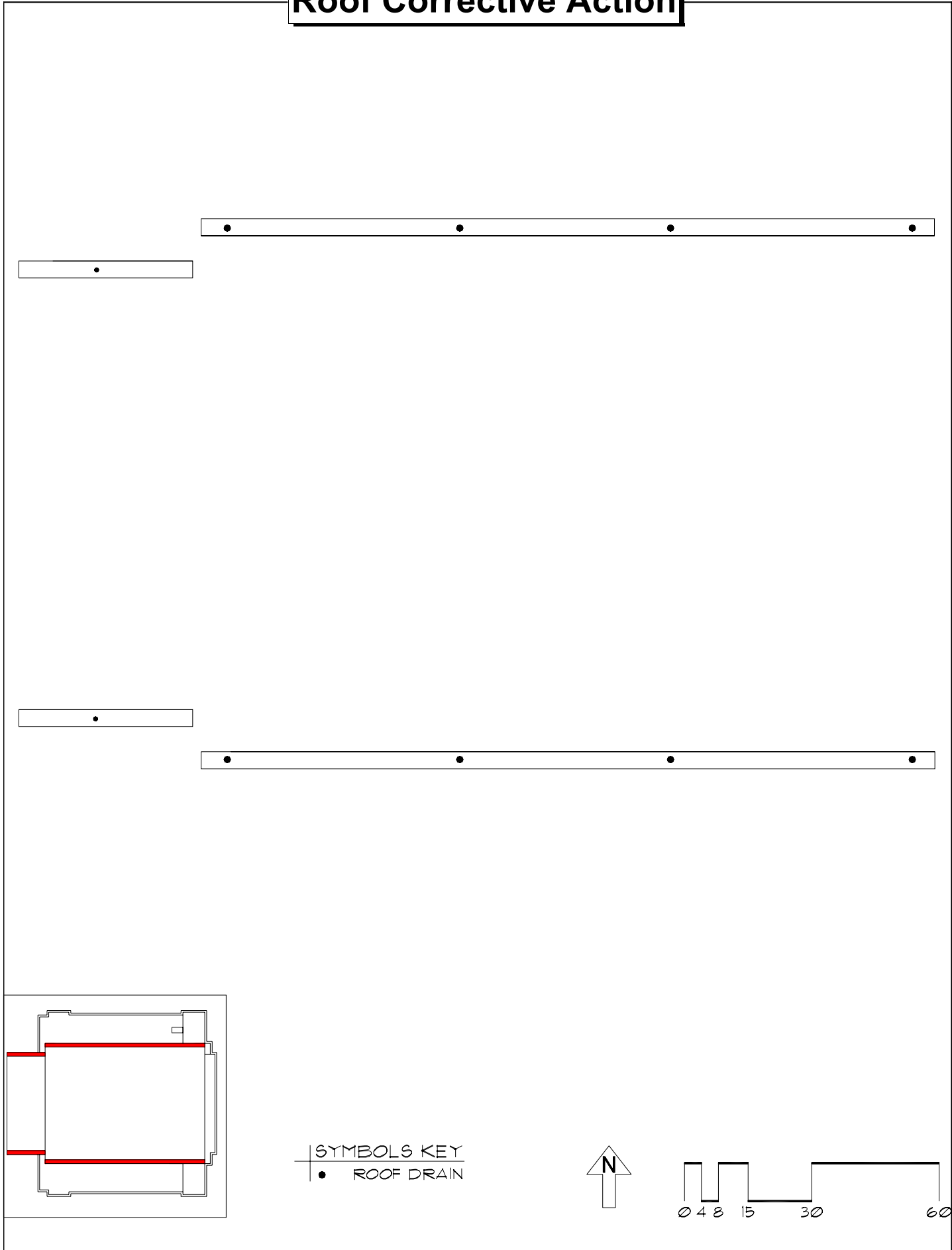
- SYMBOLS KEY**
- VENT STACK
  - ▣ ROOF HATCH
  - ↗ SLOPE DIRECTION
  - ROOF CURB



# Roof Corrective Action



# Roof Corrective Action



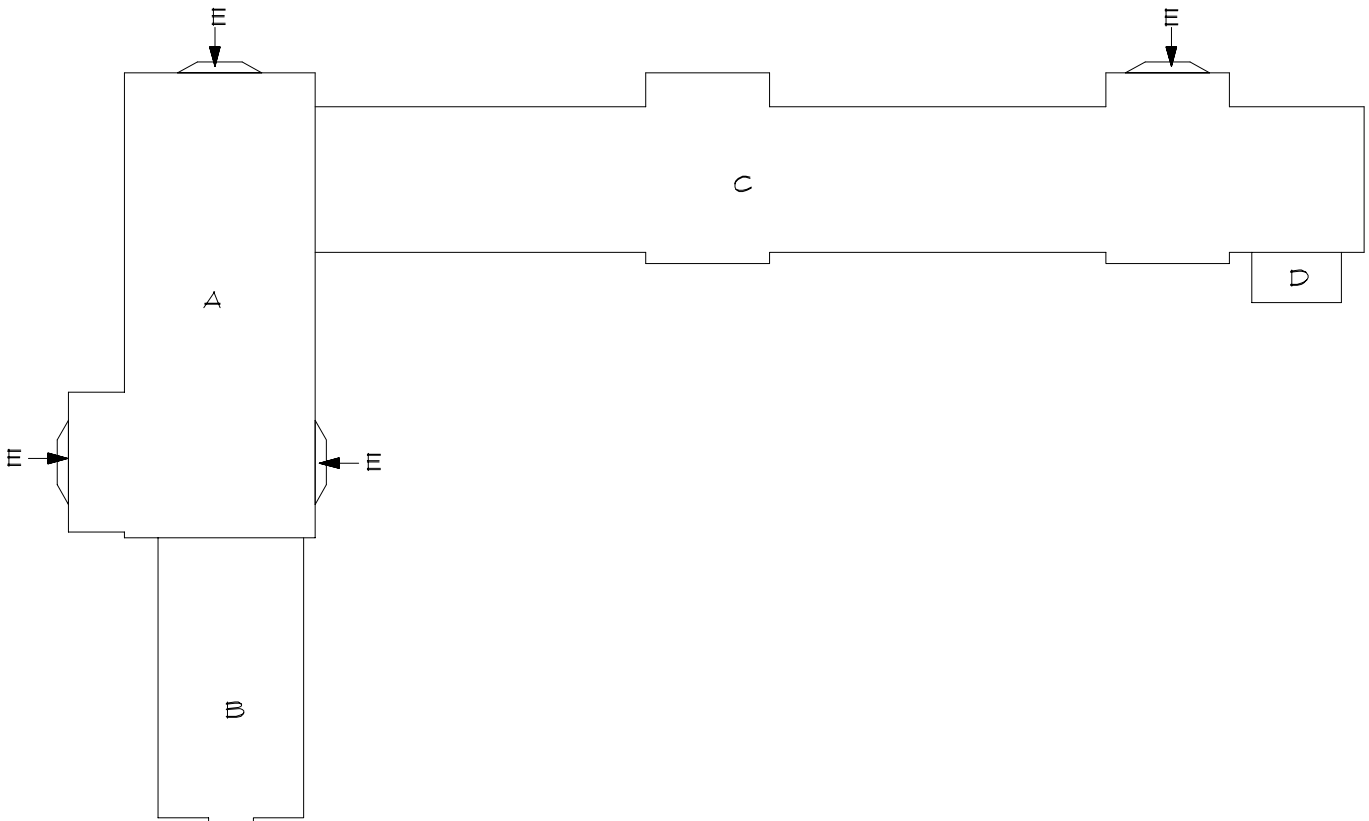
# Roof ID

**Building:** EB057 - Nolte Center - (315 Pillsbury Drive Se Mpls)

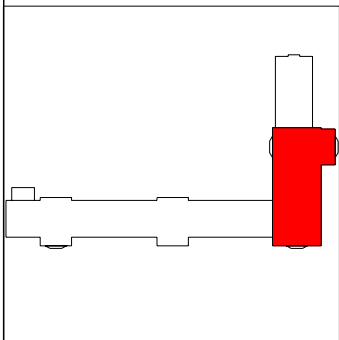
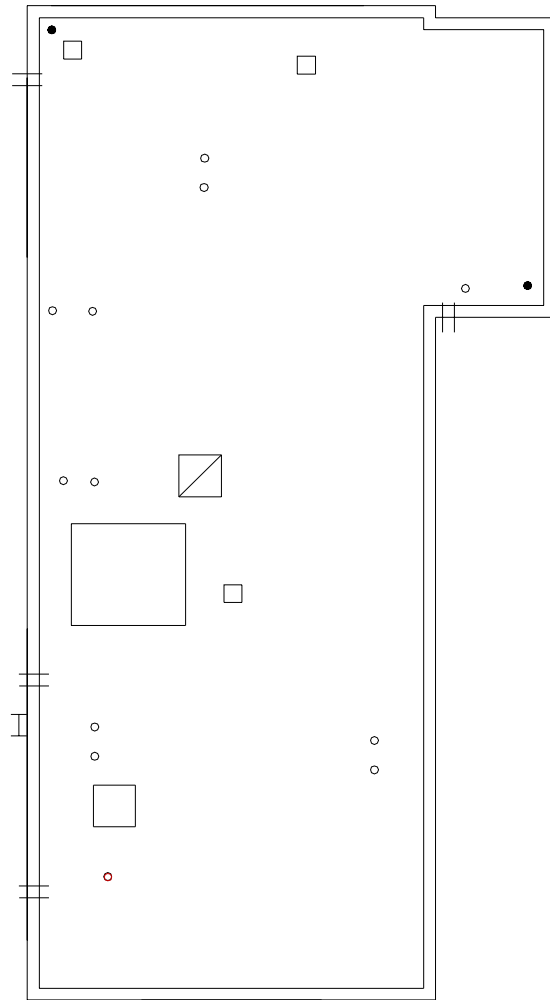
**Roof Access:** Custodian closet 336

**Total Area:** 9,887 sf

<b>A</b>	<b>3,072</b>	<b>E</b>	<b>176</b>
<b>B</b>	<b>1,308</b>		
<b>C</b>	<b>5,214</b>		
<b>D</b>	<b>117</b>		

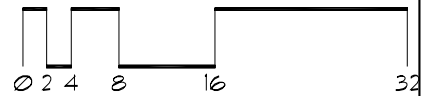


# Roof Corrective Action

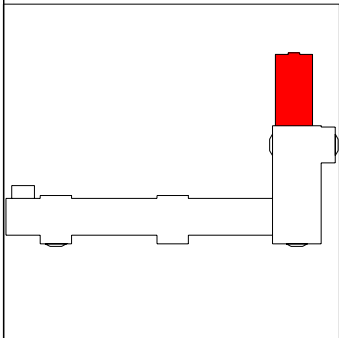
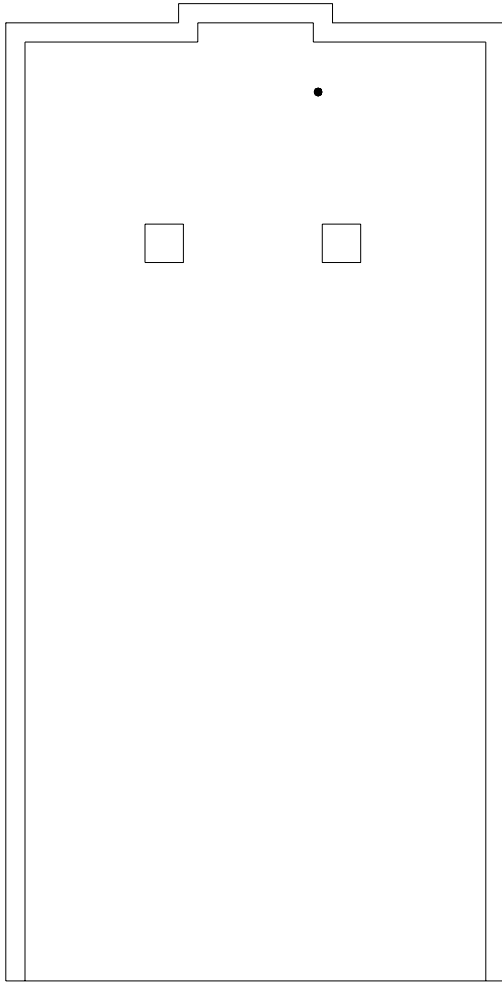


## SYMBOLS KEY

- ⋈ SCUPPER
- VENT STACK
- ROOF DRAIN
- ROOF CURB
- H LADDER
- ▣ ROOF HATCH
- ① DEFECT-NO REPAIR

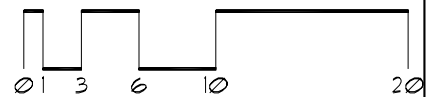


# Roof Corrective Action



## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN

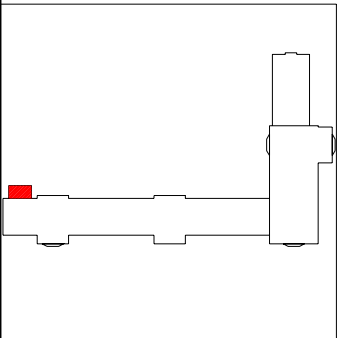
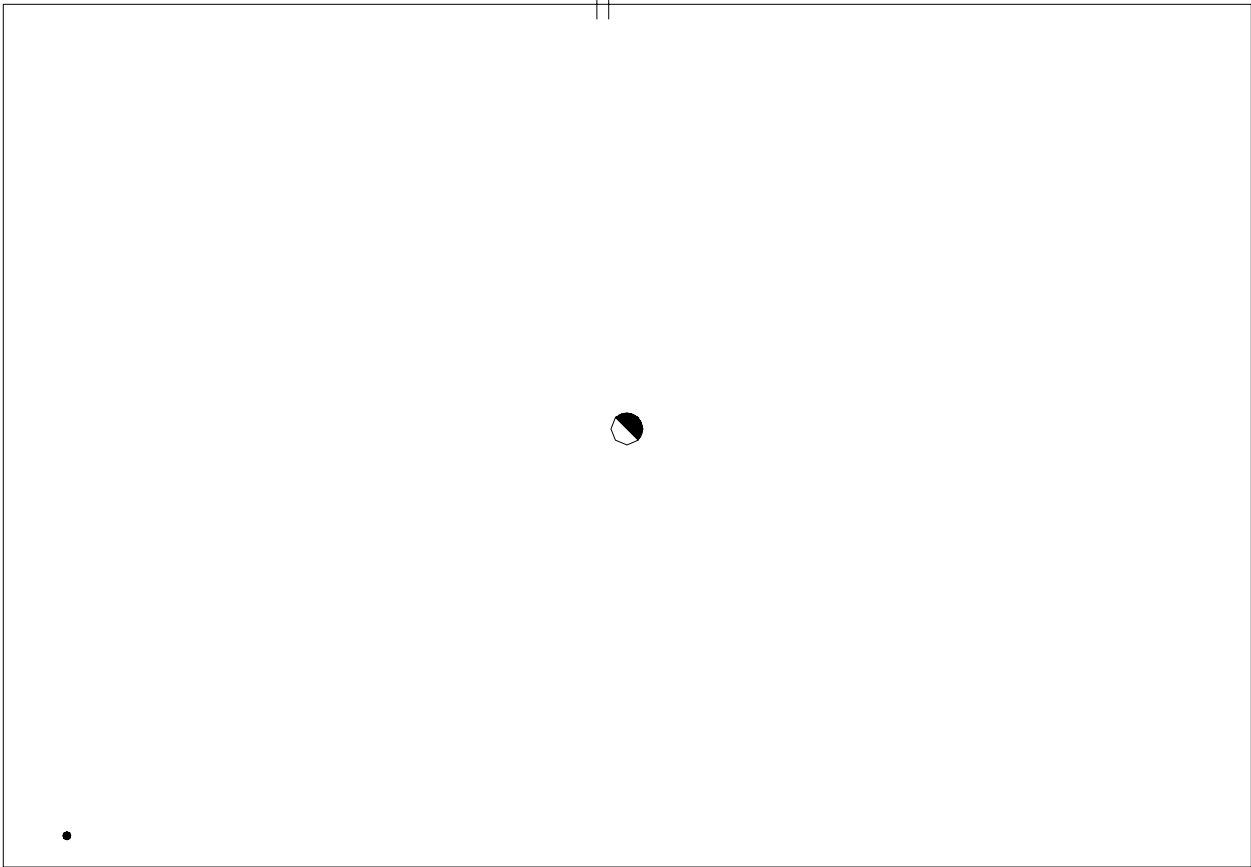


# Roof Corrective Action



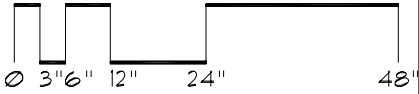


# Roof Corrective Action

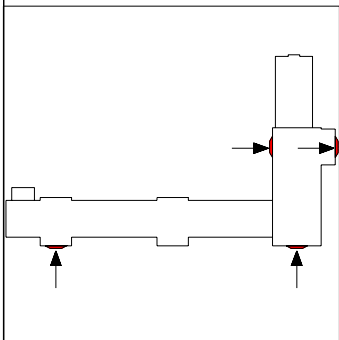
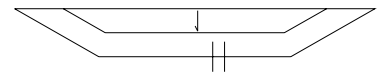
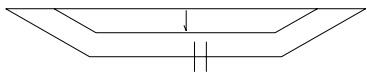
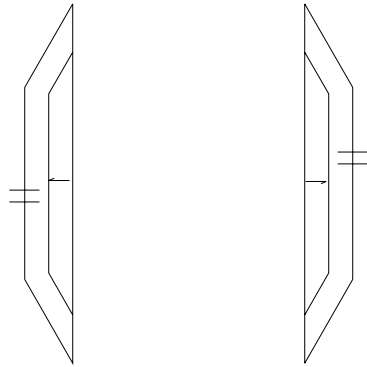


### SYMBOLS KEY

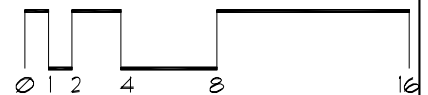
- †† SCUPPER
- ROOF DRAIN
- ◐ HEAT STACK



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER  
-> SLOPE DIRECTION



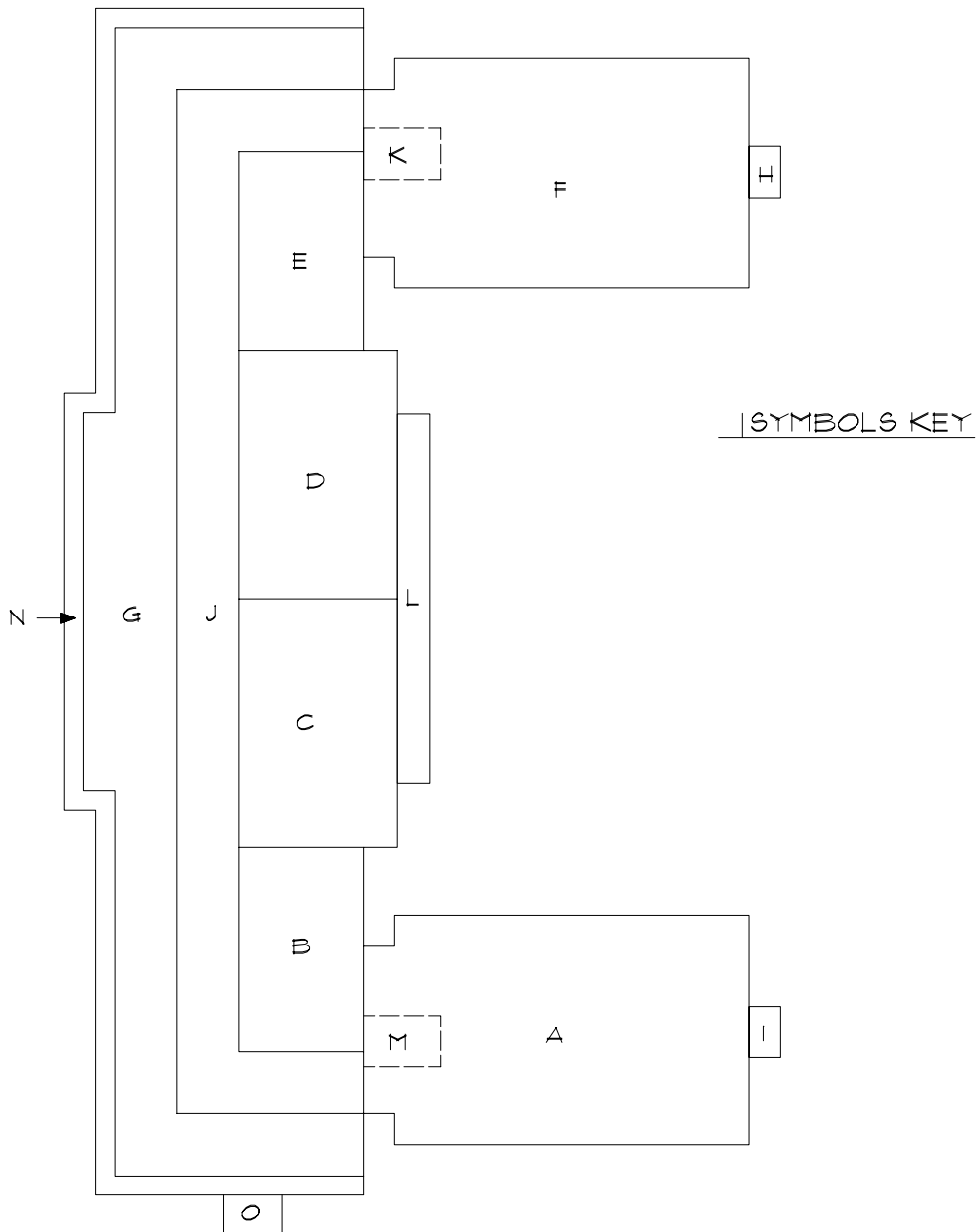
# Roof ID

**Building:** EB060 - Vincent Hall - (206 Church Street SE Minneapolis)

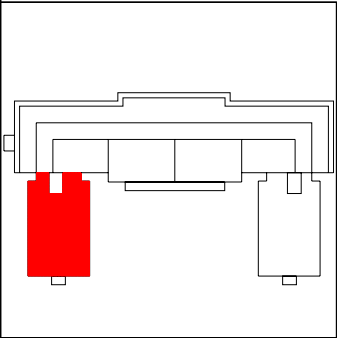
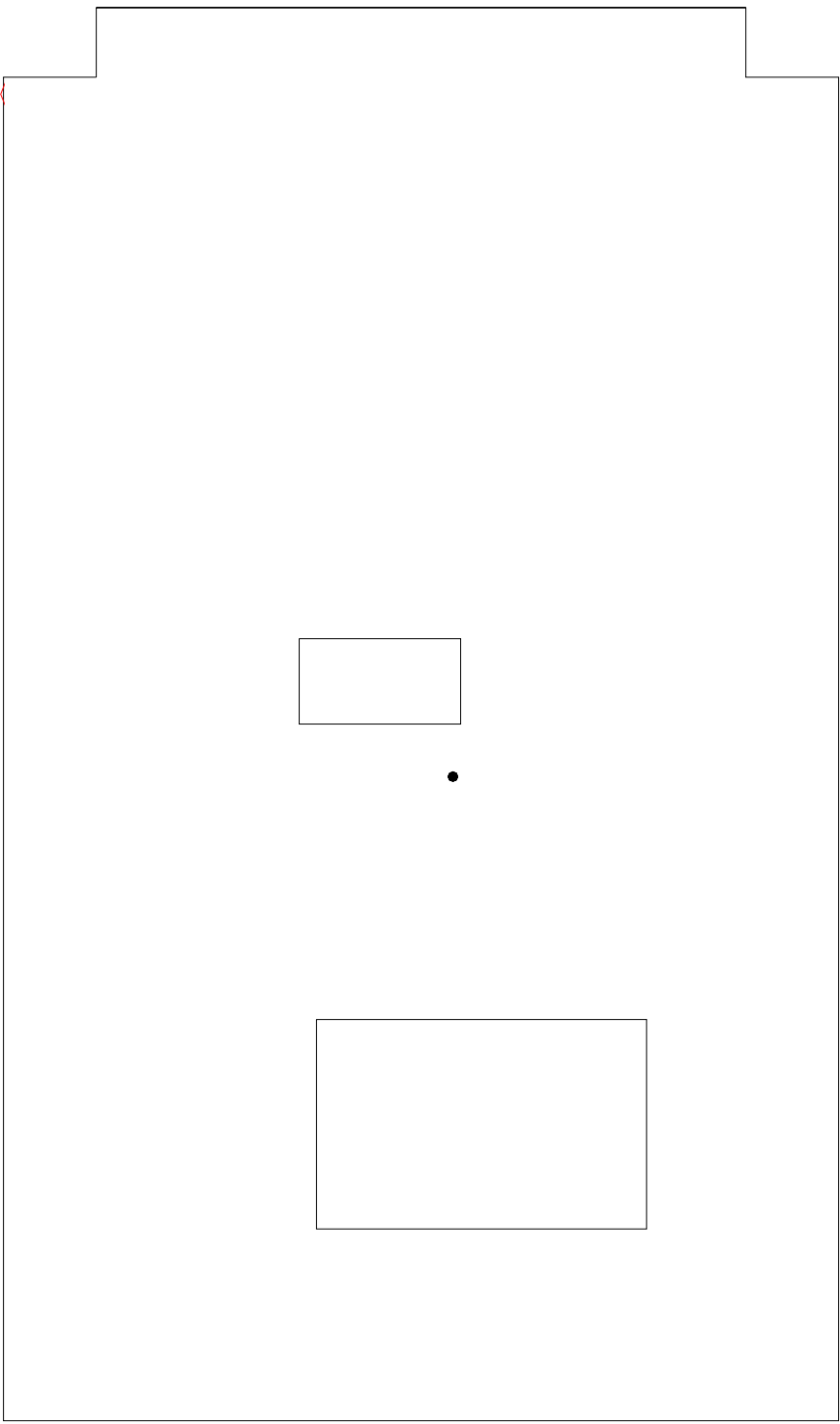
**Roof Access:** 5th floor mechanical room across from room 513

**Total Area:** 17,271 sf

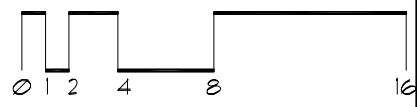
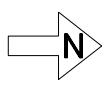
A	2,172	E	620	I	40	M	96
B	620	F	1,899	J	5,525	N	820
C	960	G	2,878	K	96	O	255
D	960	H	40	L	290		



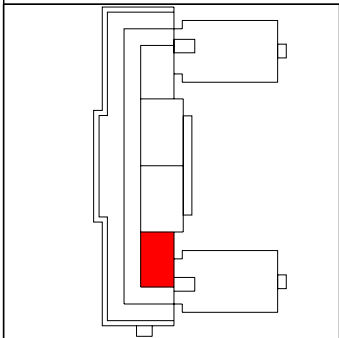
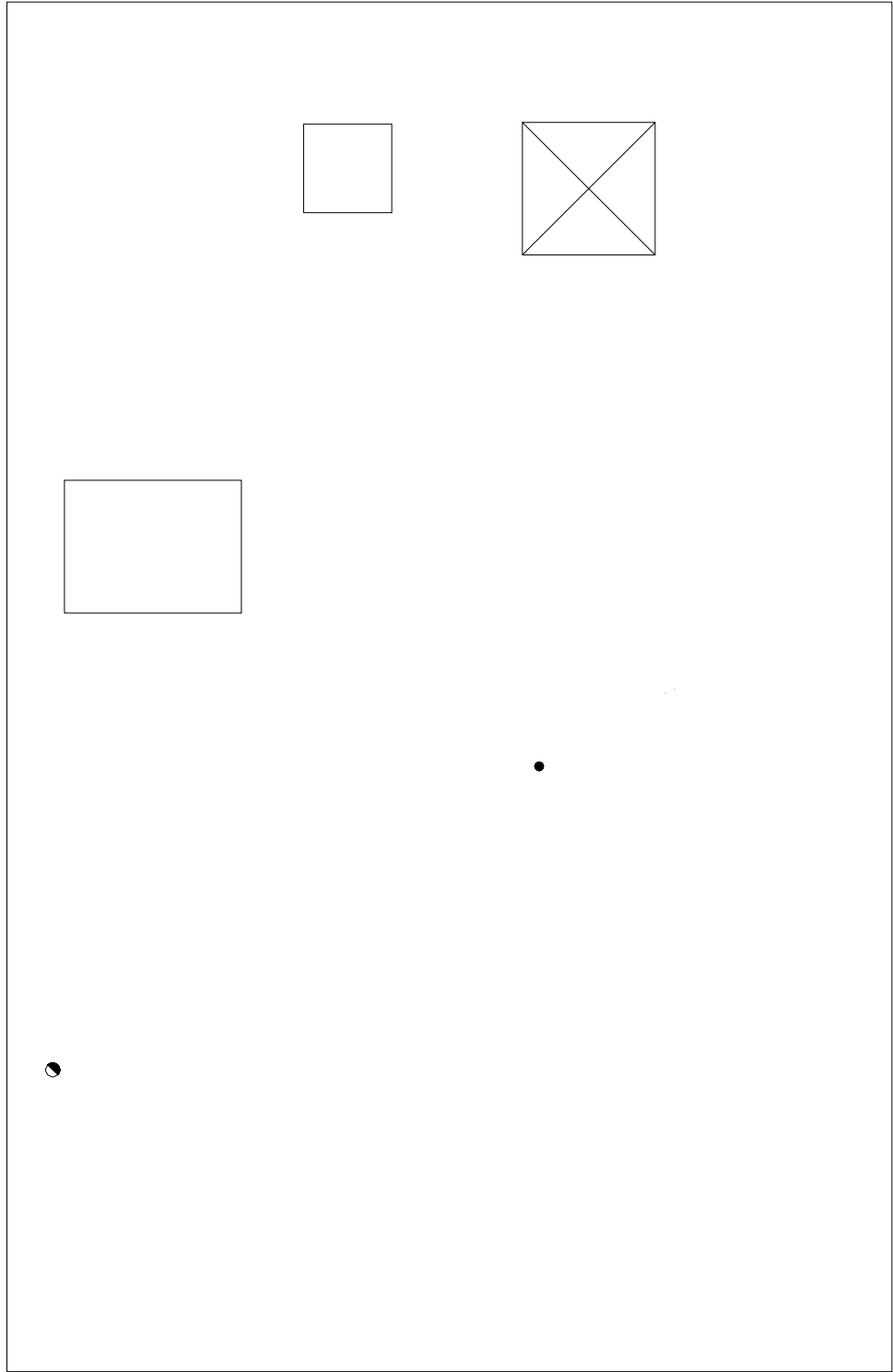
# Roof Corrective Action



- SYMBOLS KEY
- ROOF CURB
  - ROOF DRAIN
  - ⊖ DEFECT-NO REPAIR
  - ⊕ DEFECT-REPAIR

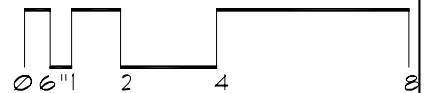


# Roof Corrective Action

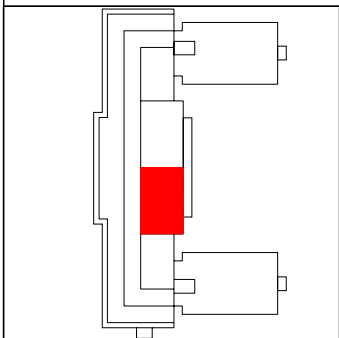
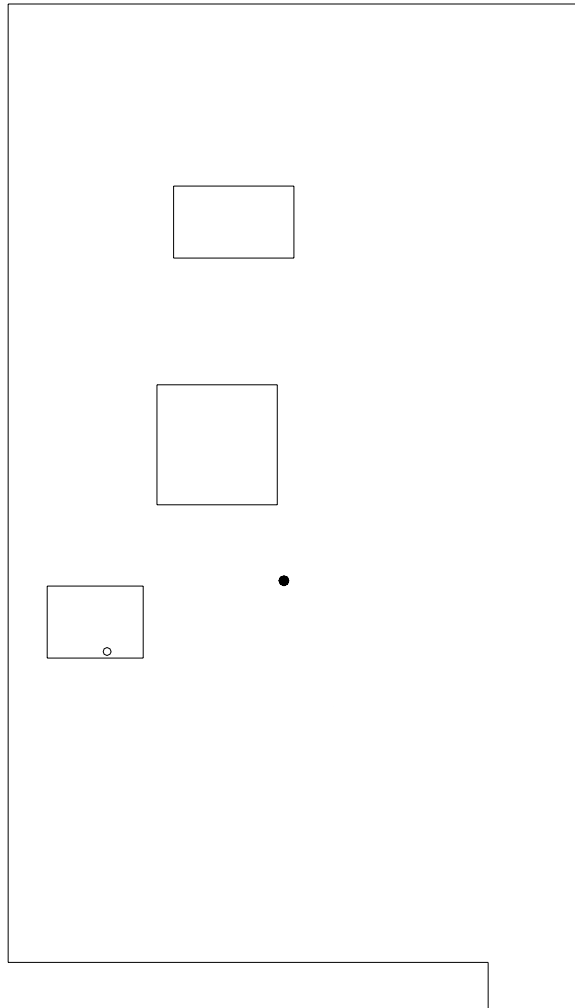


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- ⊠ SKYLIGHT
- ⓪ DEFECT-NO REPAIR
- Ⓢ DEFECT-REPAIR

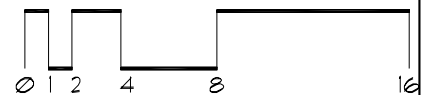


# Roof Corrective Action

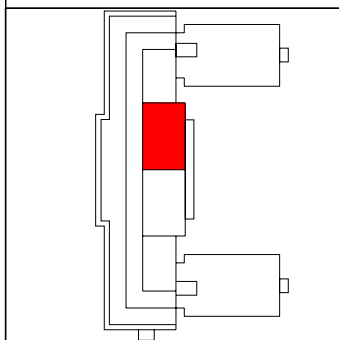
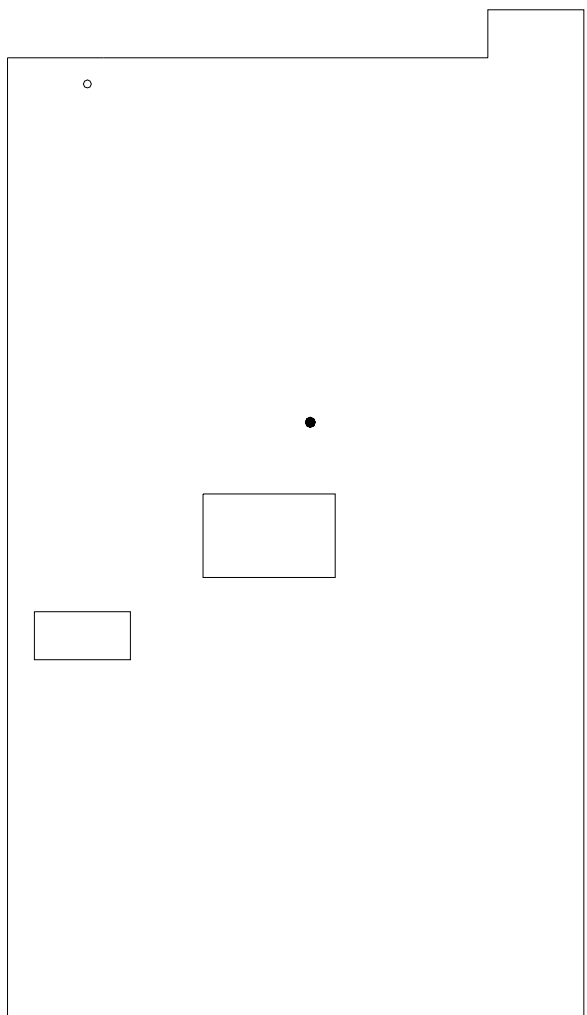


## SYMBOLS KEY

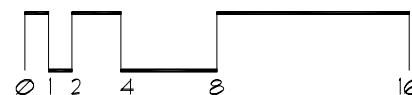
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ① DEFECT-NO REPAIR
- Ⓜ DEFECT-REPAIR



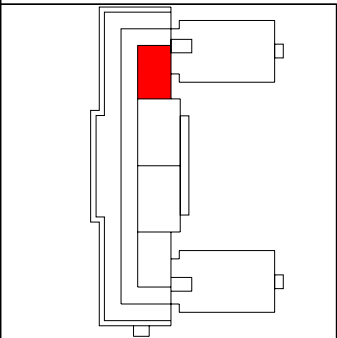
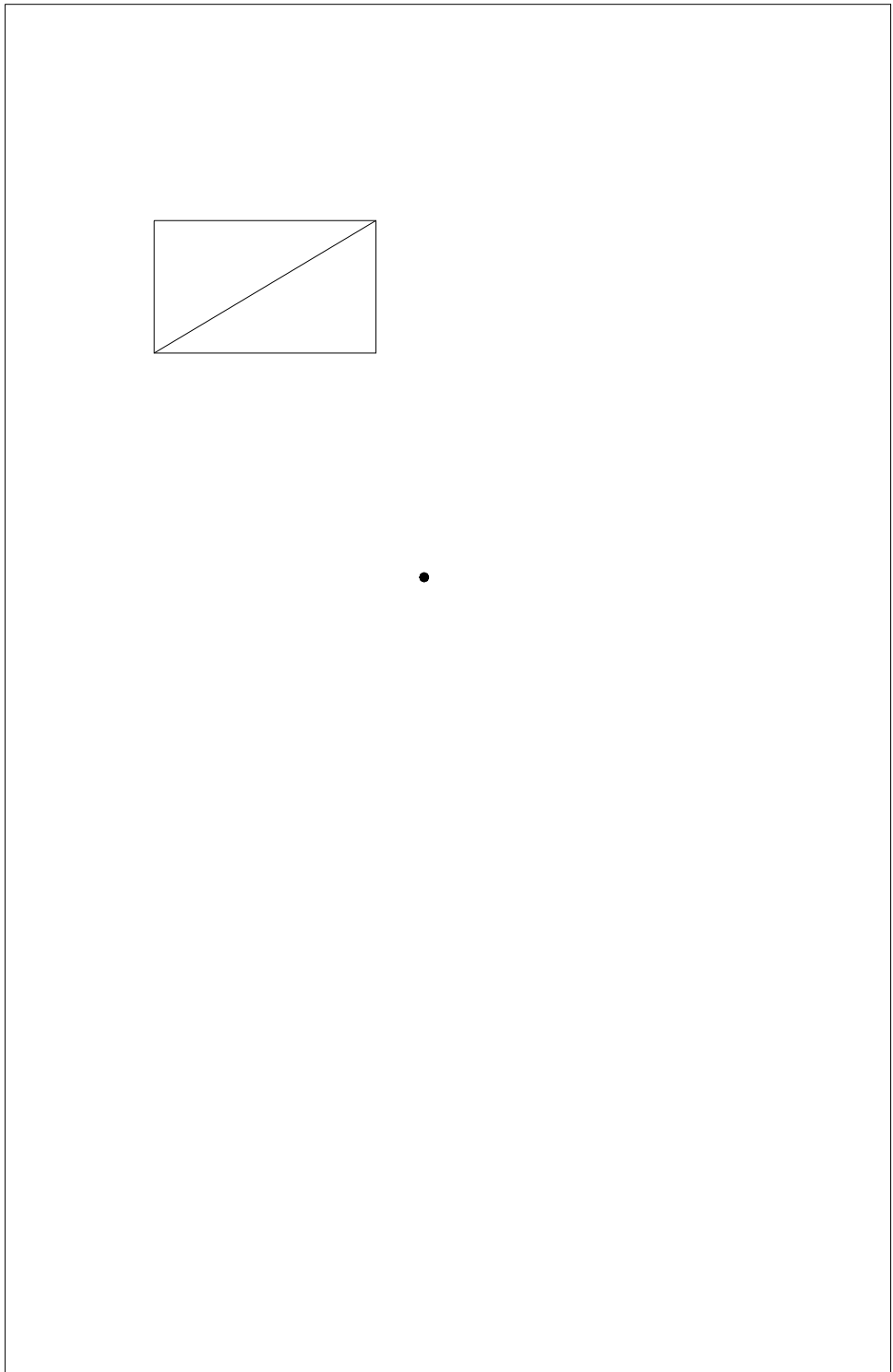
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ① DEFECT-NO REPAIR

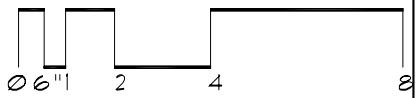


# Roof Corrective Action



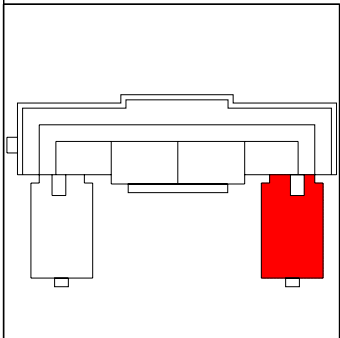
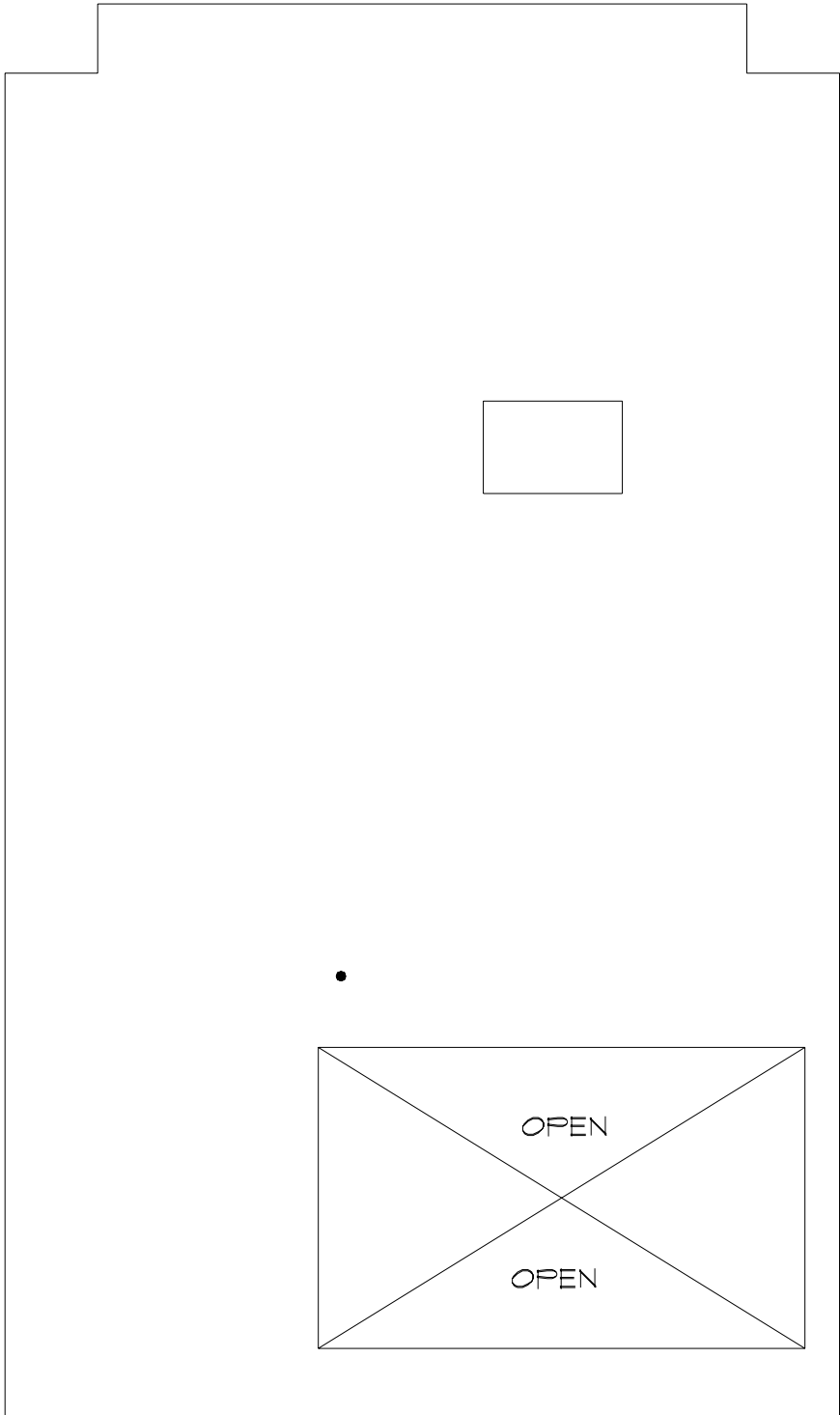
## SYMBOLS KEY

- ROOF DRAIN
- ☒ ROOF HATCH
- ① DEFECT-NO REPAIR
- ② DEFECT-REPAIR

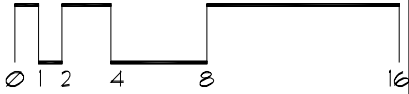




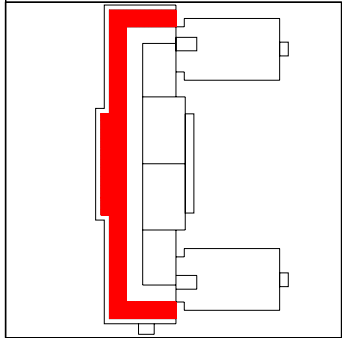
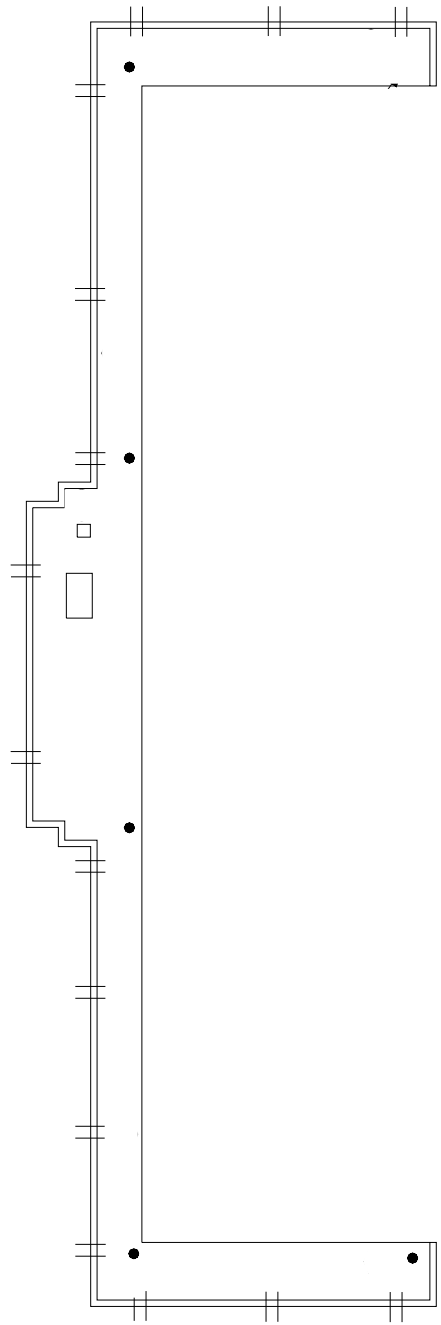
# Roof Corrective Action



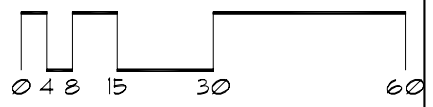
- SYMBOLS KEY**
- ROOF DRAIN
  - ROOF CURB
  - Ⓢ DEFECT-REPAIR
  - Ⓣ DEFECT-NO REPAIR



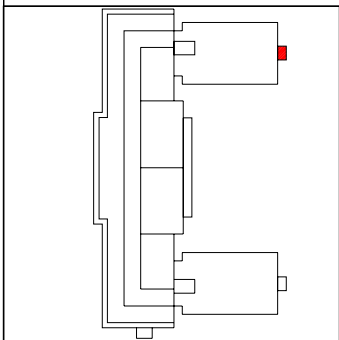
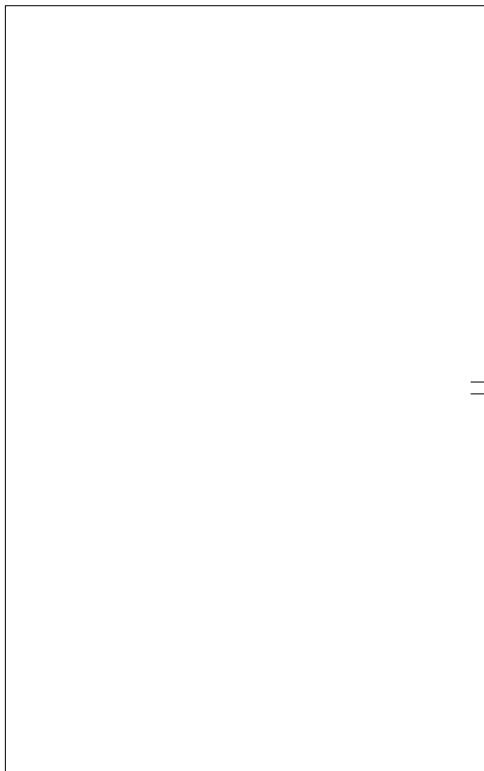
# Roof Corrective Action



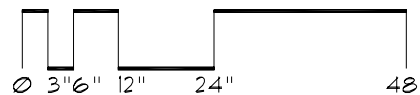
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - || SCUPPER
  - ⊖ DEFECT-NO REPAIR
  - ⊕ DEFECT-REPAIR



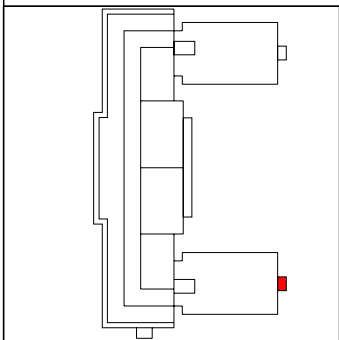
# Roof Corrective Action



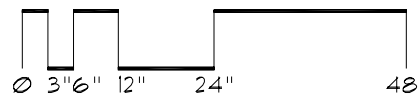
SYMBOLS KEY  
|| SCUPPER  
DEFECT-REPAIR



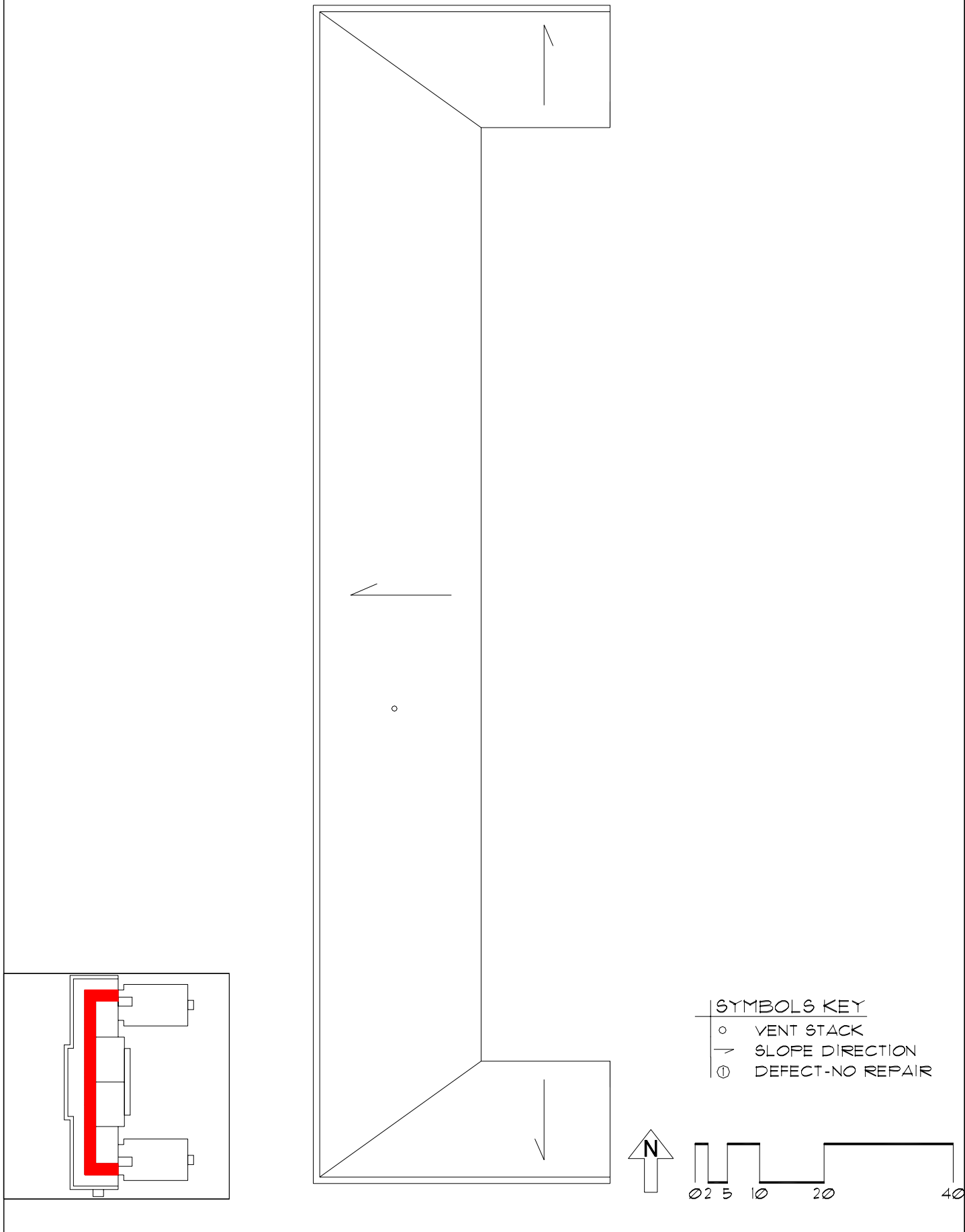
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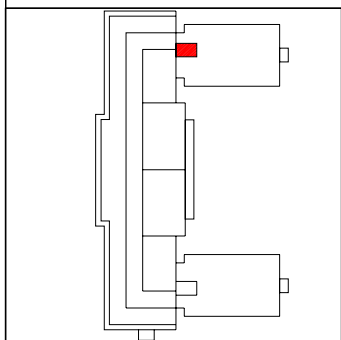
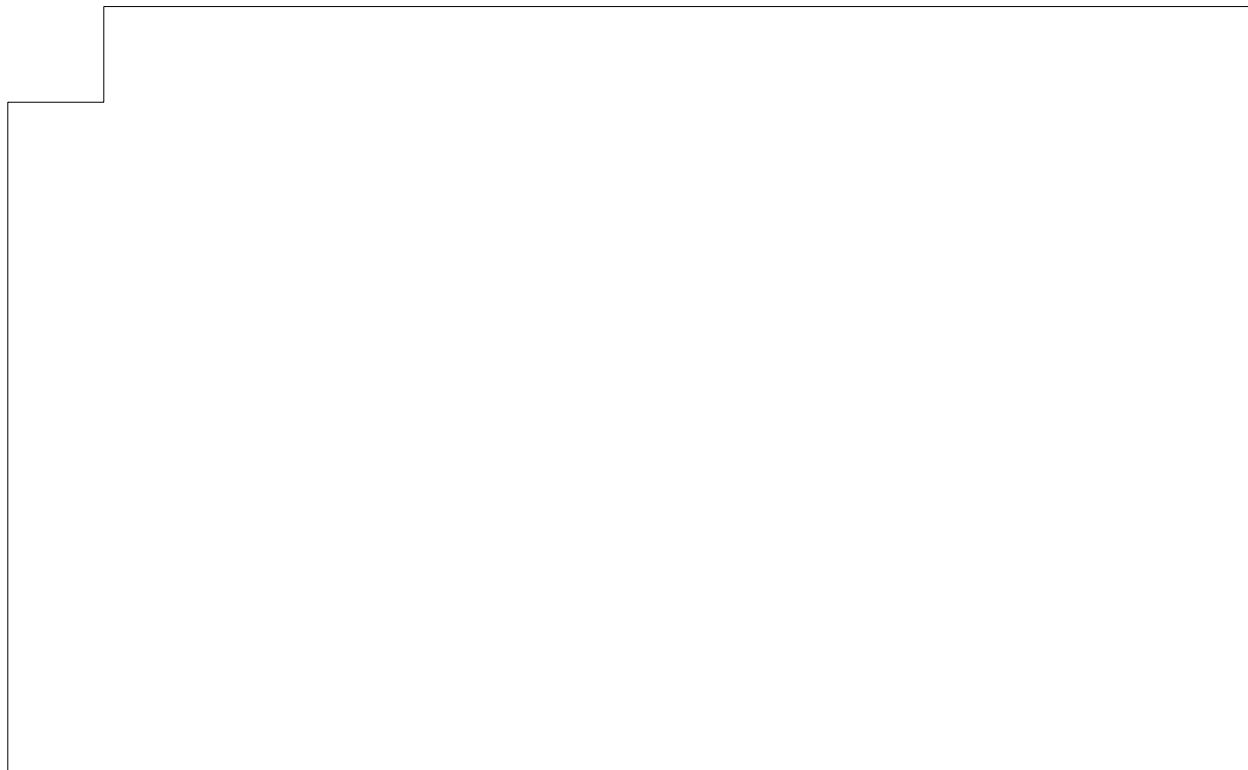
SYMBOLS KEY  
|| SCUPPER



# Roof Corrective Action



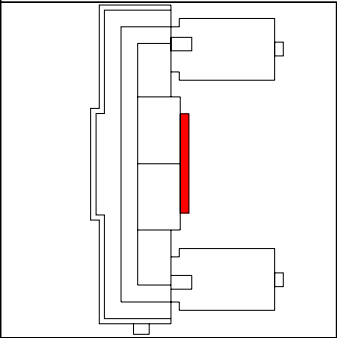
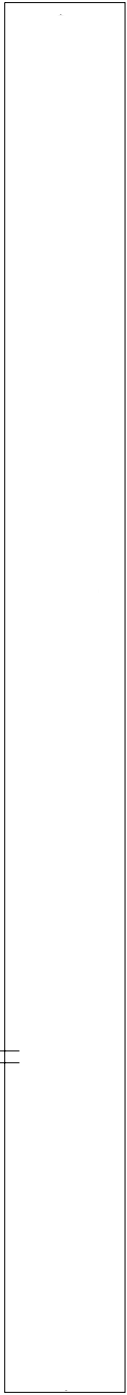
# Roof Corrective Action



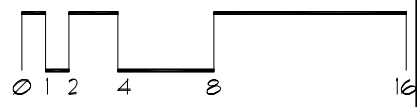
SYMBOLS KEY



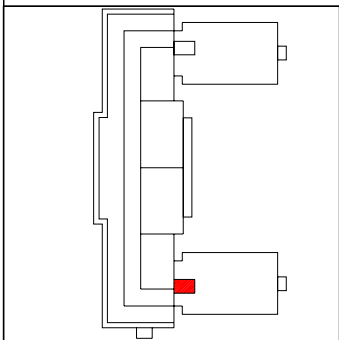
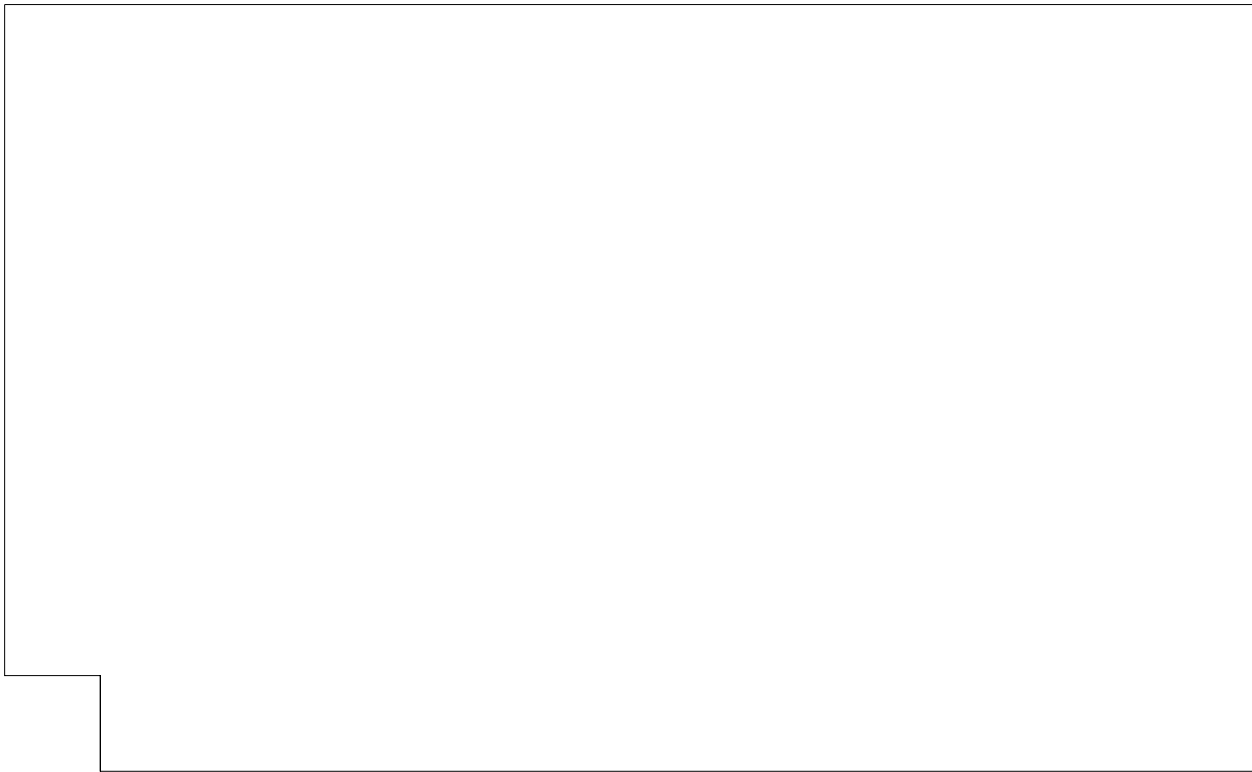
# Roof Corrective Action



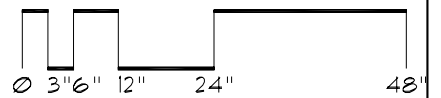
**SYMBOLS KEY**  
⊕ SCUPPER  
⊙ DEFECT-NO REPAIR  
○ DEFECT-REPAIR



# Roof Corrective Action

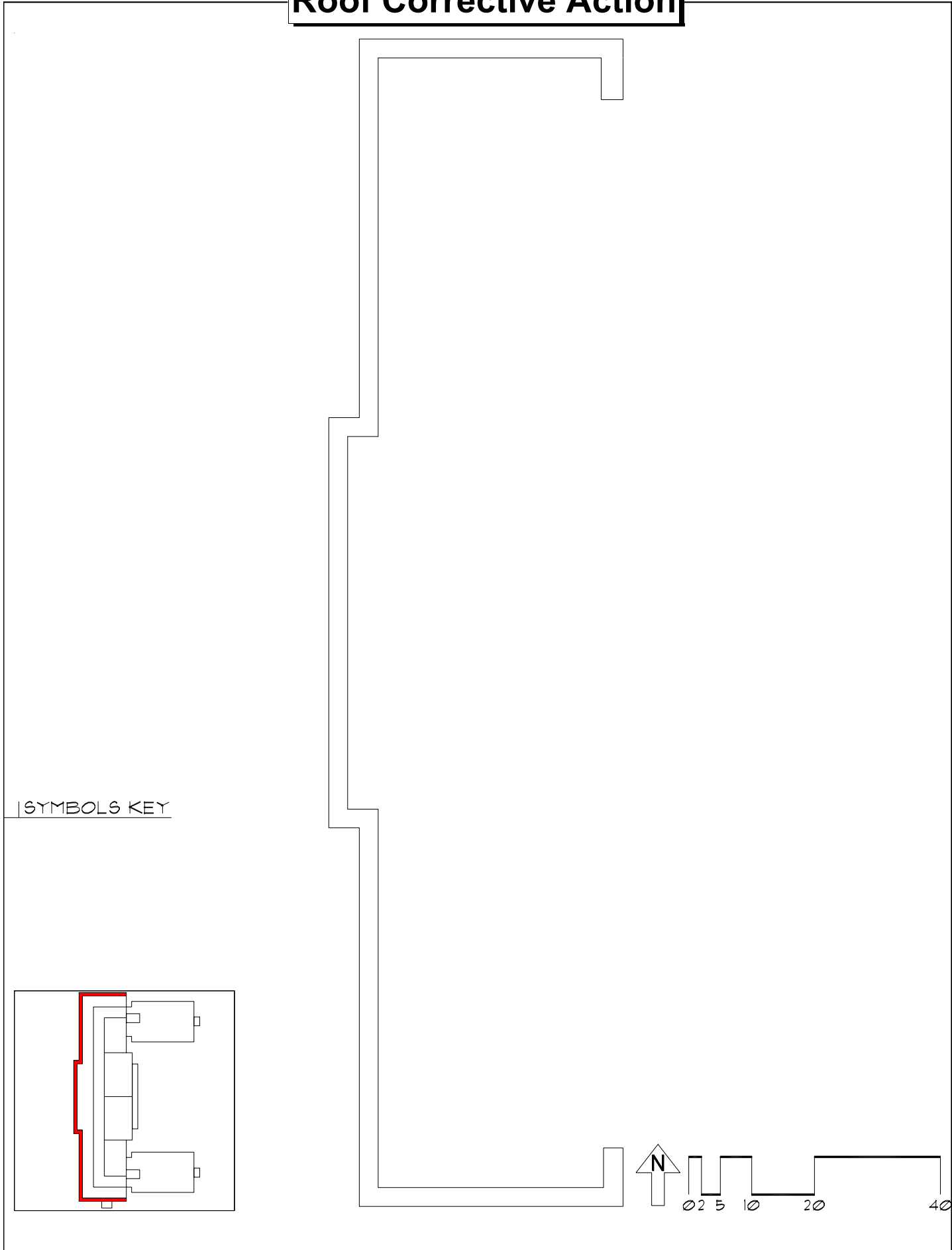


SYMBOLS KEY  
① DEFECT-REPAIR

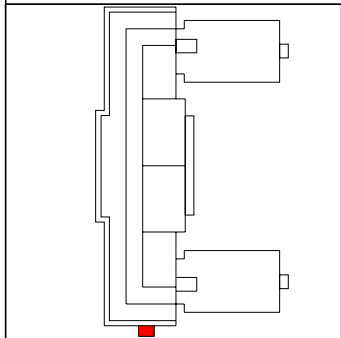
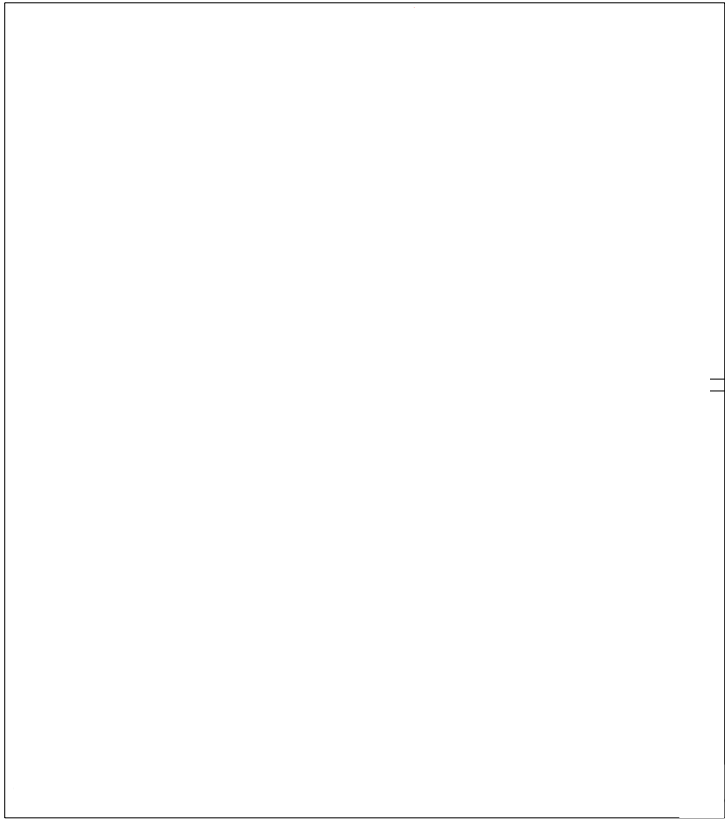




# Roof Corrective Action

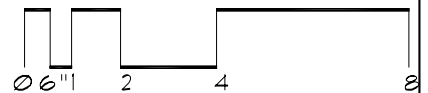


# Roof Corrective Action



## SYMBOLS KEY

- † SCUPPER
- ⊖ DEFECT-REPAIR
- ⊕ DEFECT-NO REPAIR



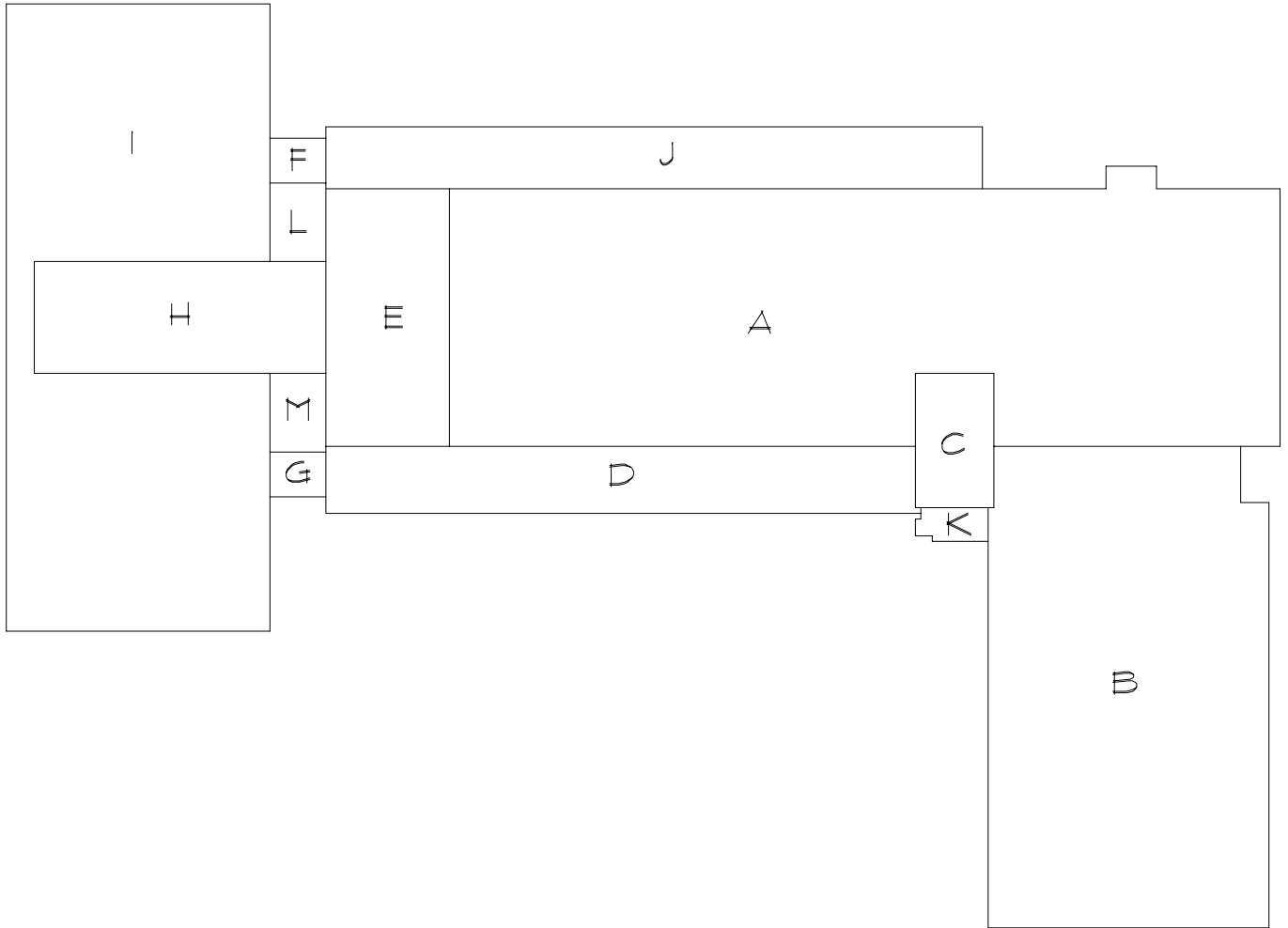
# Roof ID

**Building:** EB061 - Bell Museum - (10 Church Street SE Minneapolis)

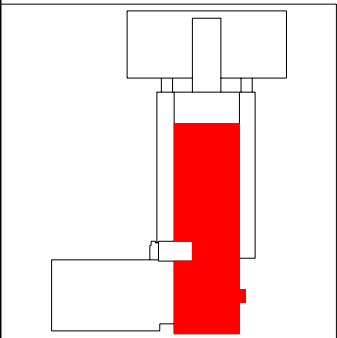
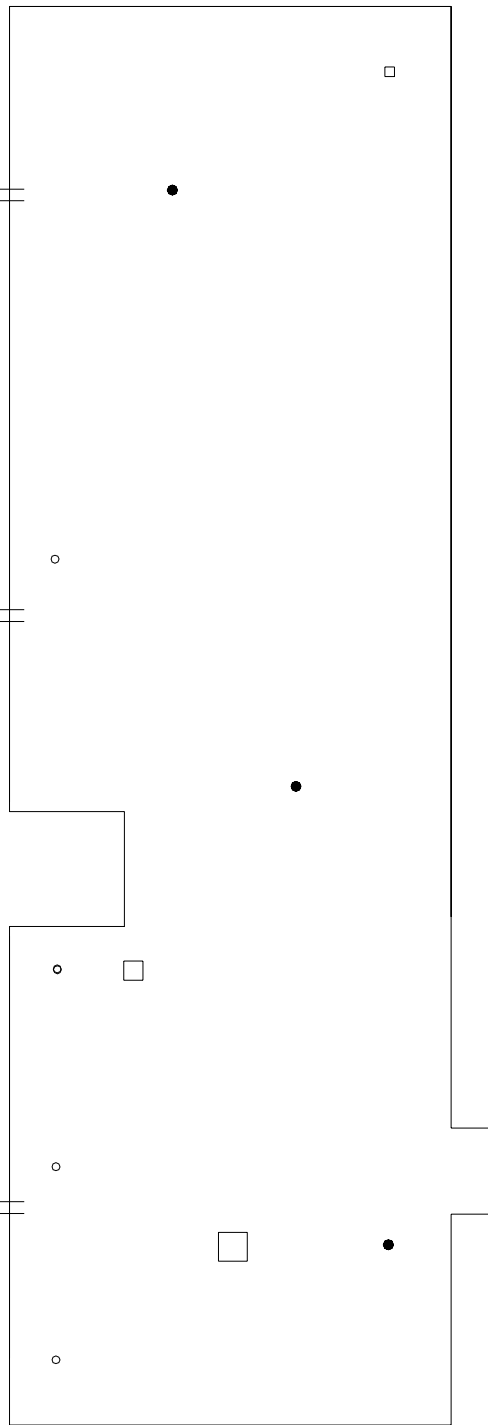
**Roof Access:** Penthouse C

**Total Area:** 20,713 sf

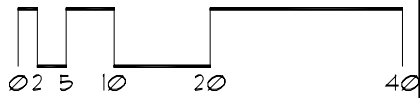
<b>A</b>	<b>6,662</b>	<b>E</b>	<b>1,056</b>	<b>I</b>	<b>4,424</b>	<b>M</b>	<b>140</b>
<b>B</b>	<b>4,239</b>	<b>F</b>	<b>80</b>	<b>J</b>	<b>1,287</b>		
<b>C</b>	<b>336</b>	<b>G</b>	<b>80</b>	<b>K</b>	<b>73</b>		
<b>D</b>	<b>1,156</b>	<b>H</b>	<b>1,040</b>	<b>L</b>	<b>140</b>		



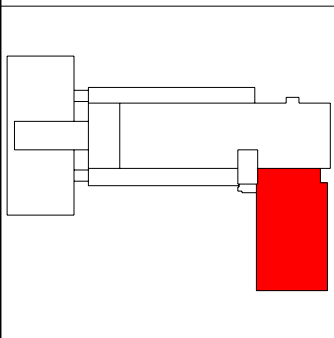
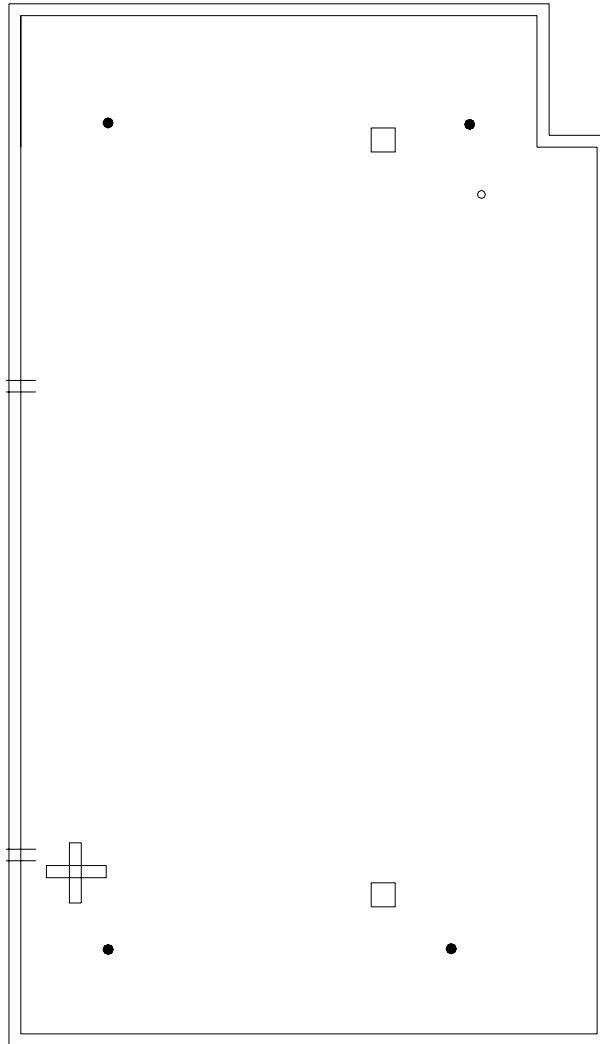
# Roof Corrective Action



- SYMBOLS KEY**
- VENT STACK
  - ROOF DRAIN
  - ROOF CURB
  - ≡ SCUPPER

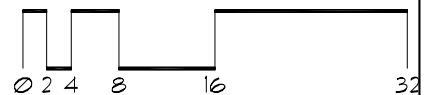


# Roof Corrective Action

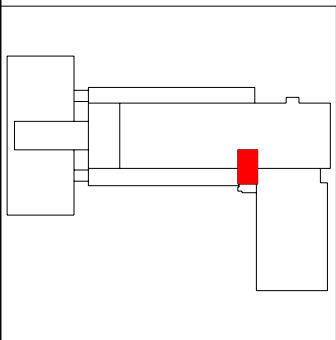
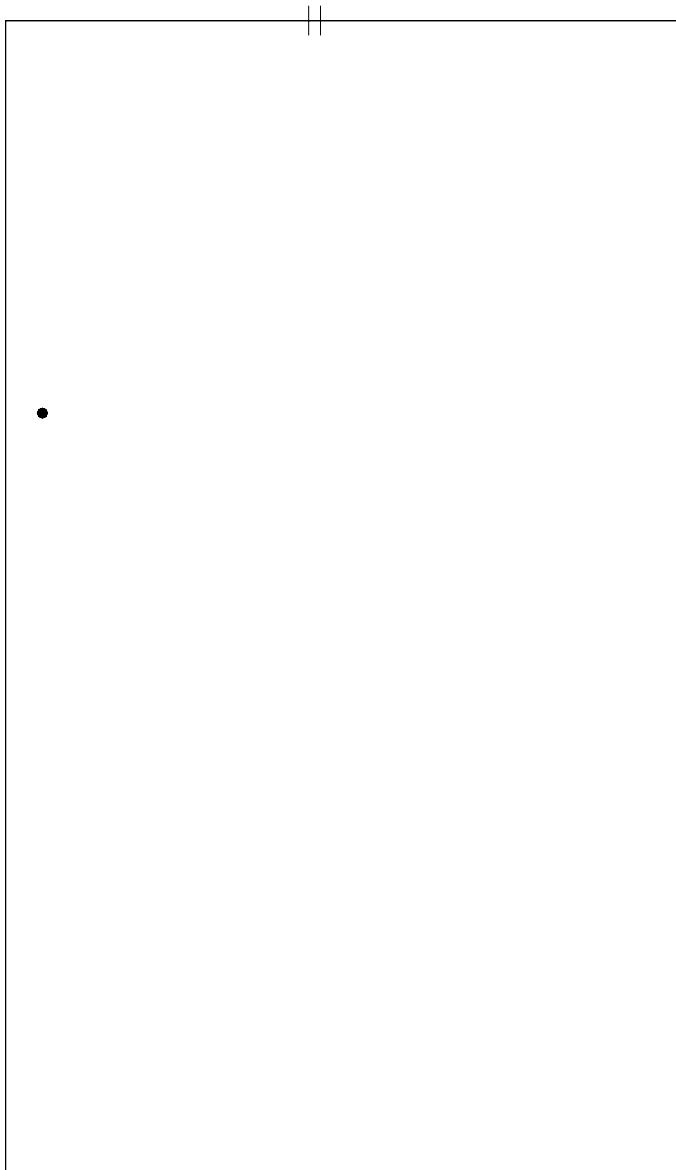


**SYMBOLS KEY**

⊕	SCUPPER
○	VENT STACK
●	ROOF DRAIN
□	ROOF CURB

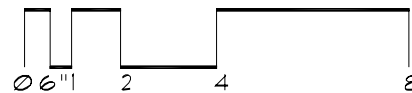


# Roof Corrective Action

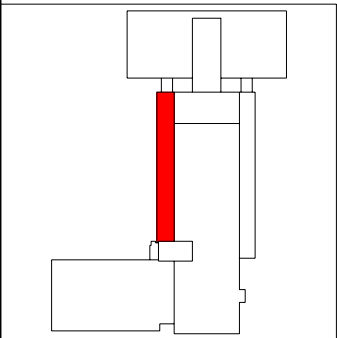
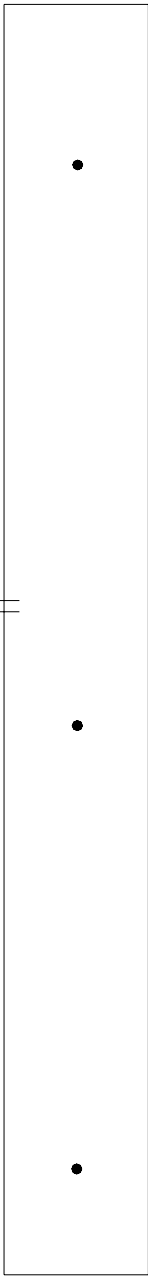


## SYMBOLS KEY

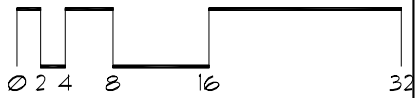
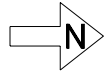
- †† SCUPPER
- ROOF DRAIN



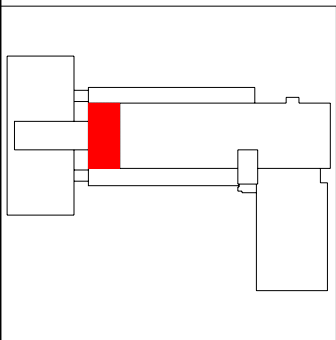
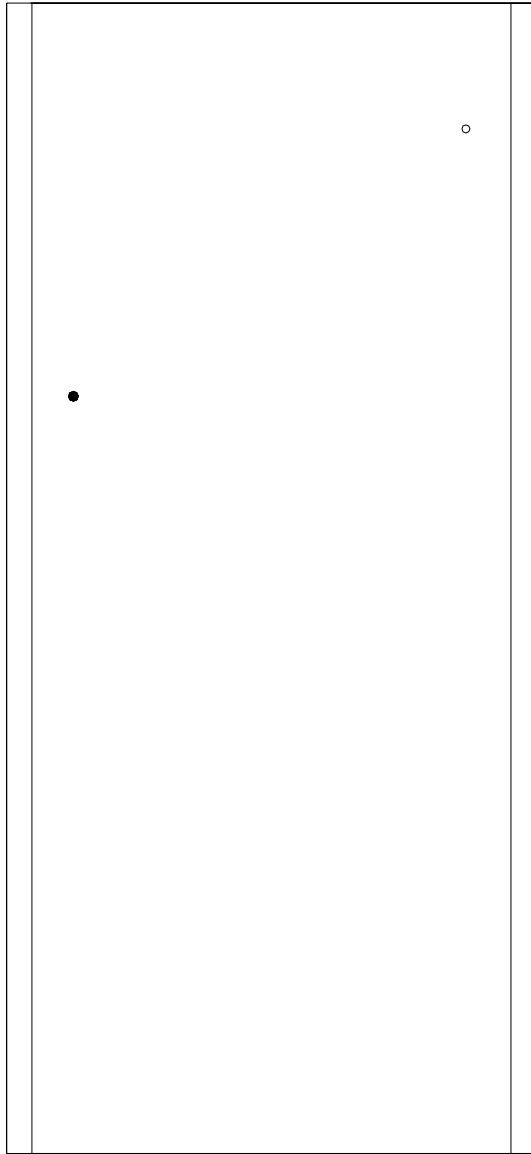
# Roof Corrective Action



SYMBOLS KEY  
† SCUPPER  
• ROOF DRAIN

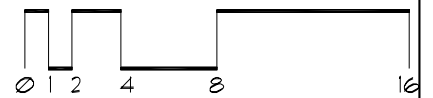


# Roof Corrective Action



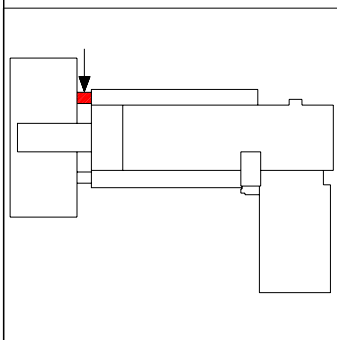
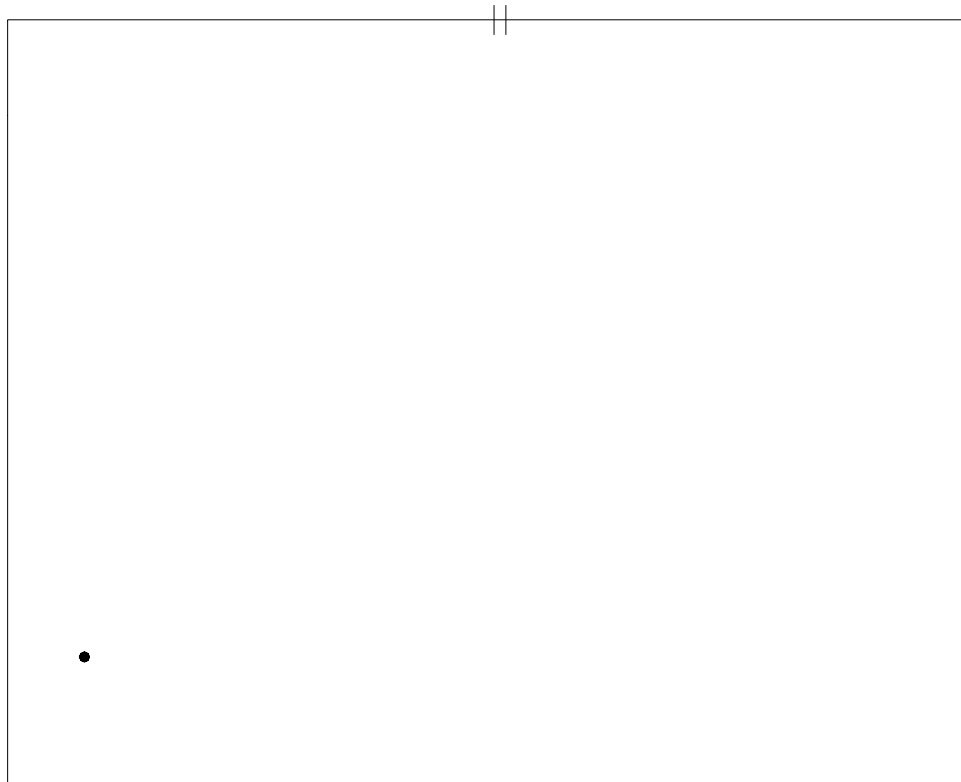
## SYMBOLS KEY

- VENT STACK
- ROOF DRAIN

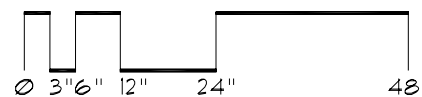




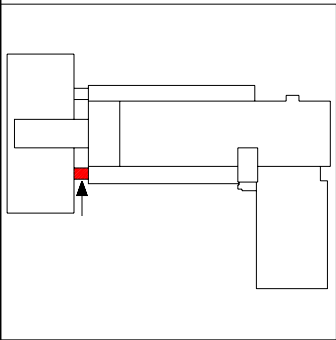
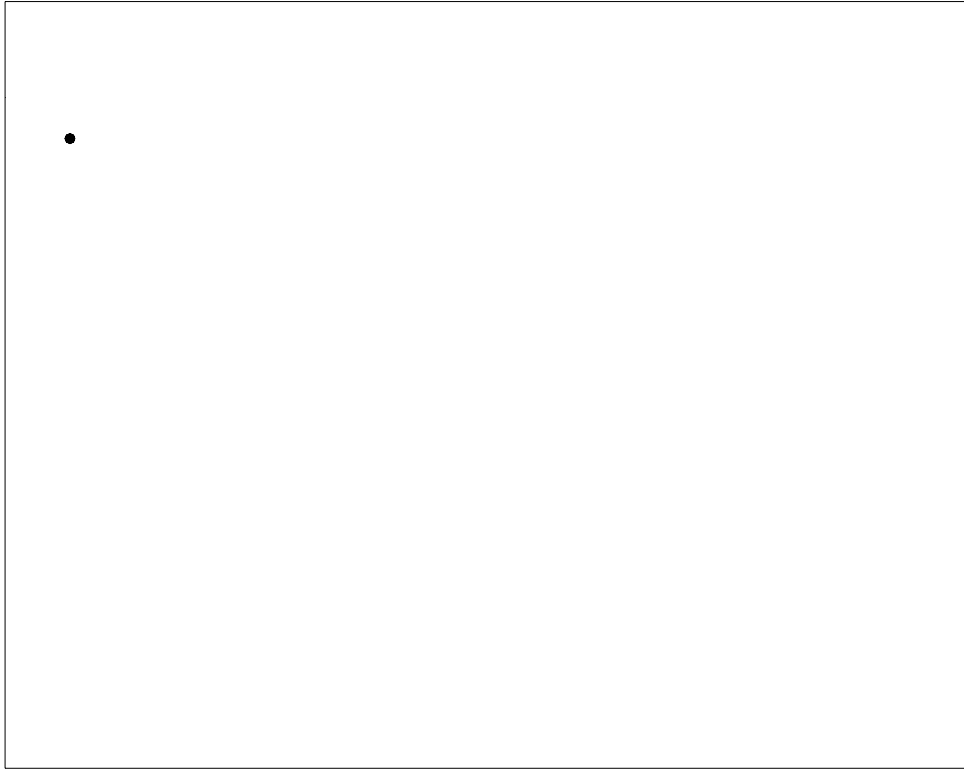
# Roof Corrective Action



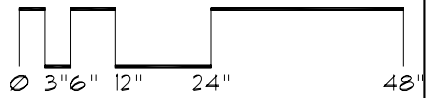
SYMBOLS KEY  
• ROOF DRAIN  
|| SCUPPER



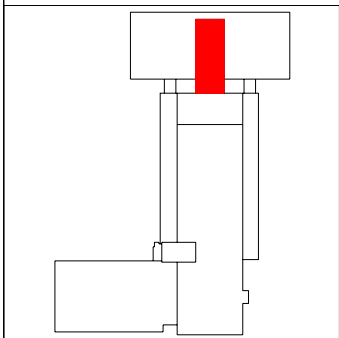
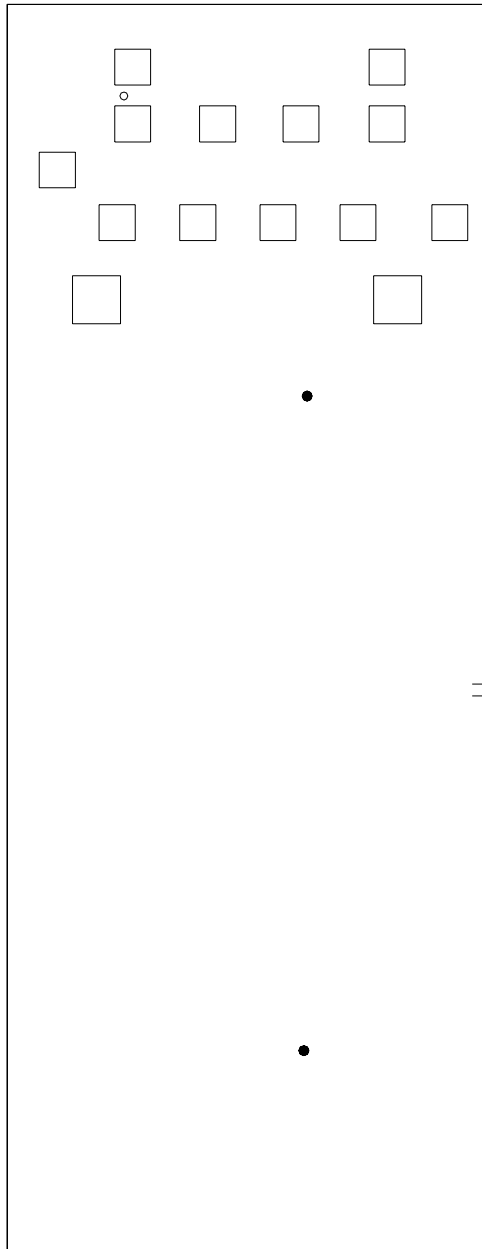
# Roof Corrective Action



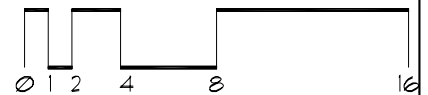
SYMBOLS KEY  
● ROOF DRAIN



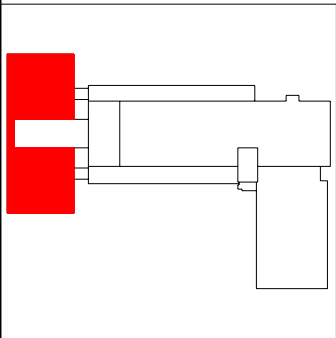
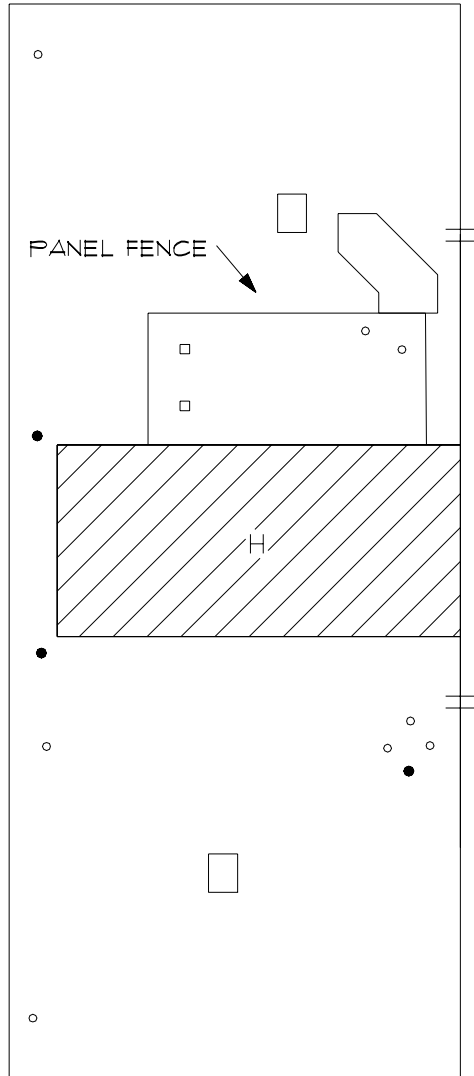
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF DRAIN
  - ROOF CURB
  - VENT STACK
  - † SCUPPER

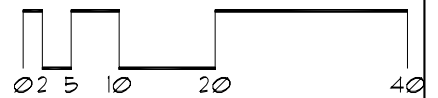


# Roof Corrective Action

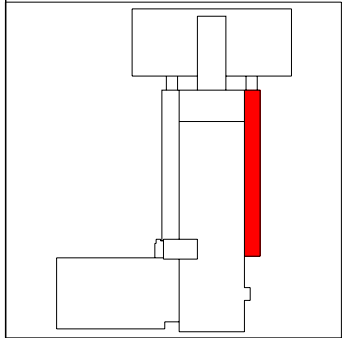
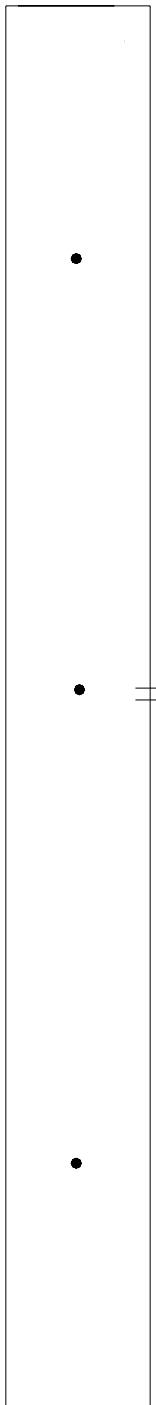


## SYMBOLS KEY

- VENT STACK
- ROOF DRAIN
- † SCUPPER
- ROOF CURB
- Ⓜ DEFECT-REPAIR



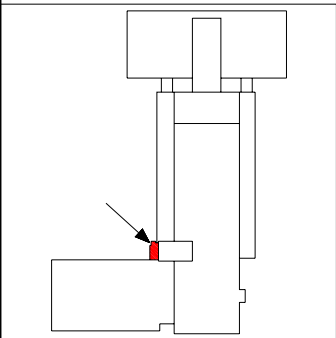
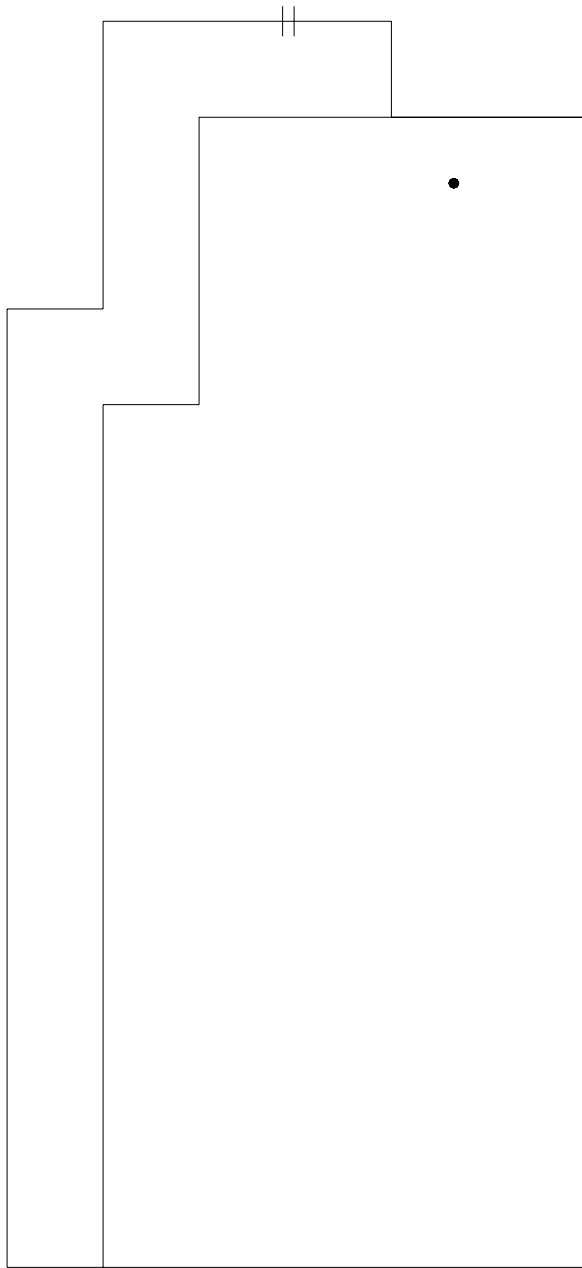
# Roof Corrective Action



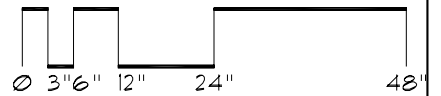
SYMBOLS KEY  
● ROOF DRAIN  
|| SCUPPER



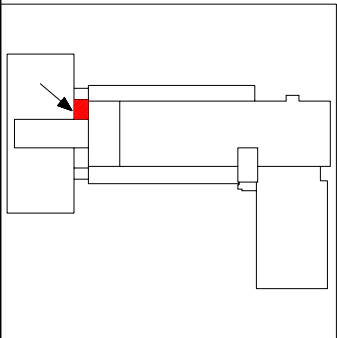
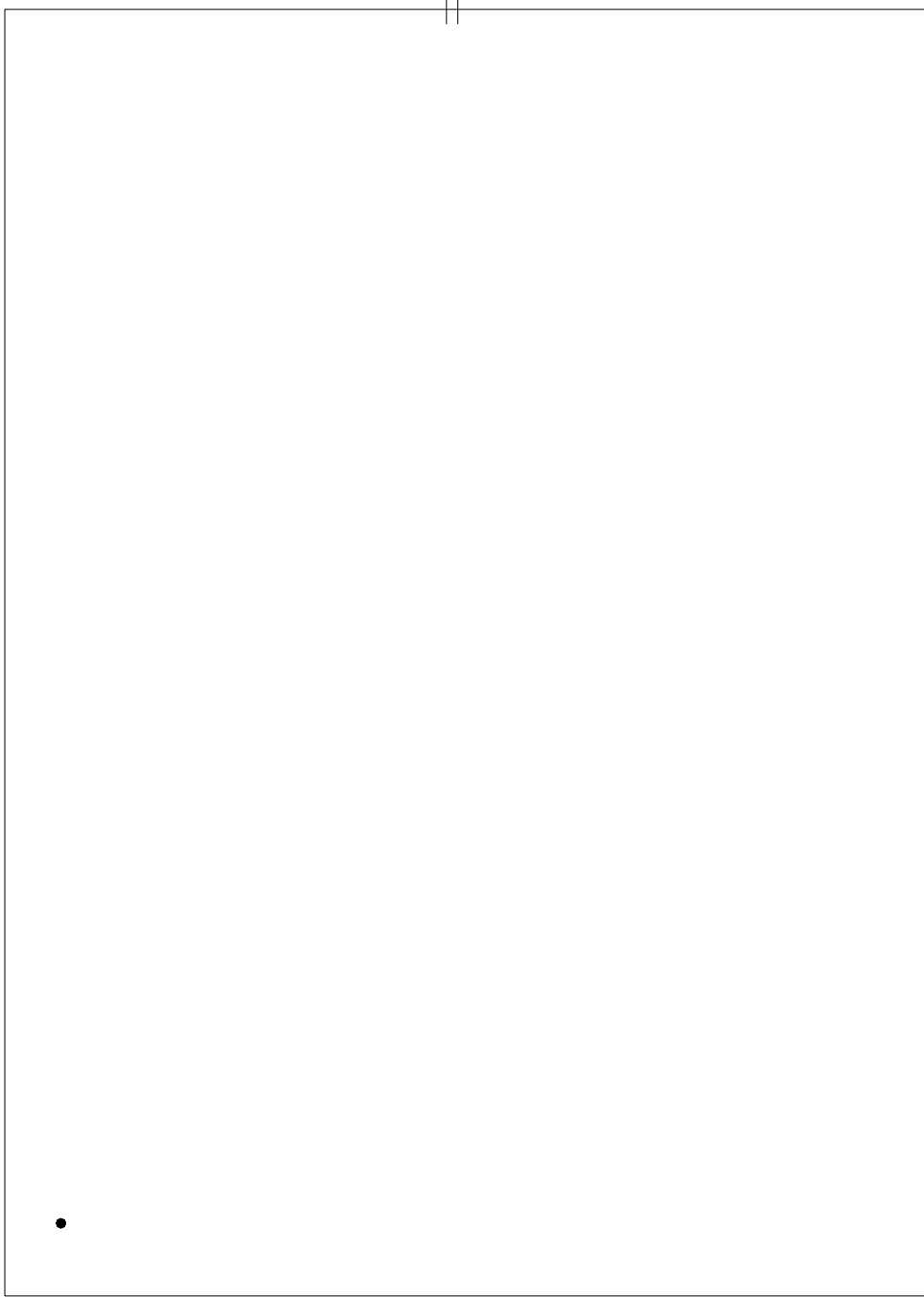
# Roof Corrective Action



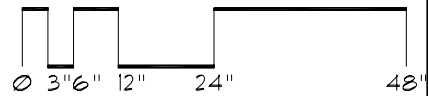
SYMBOLS KEY  
● ROOF DRAIN  
|| SCUPPER



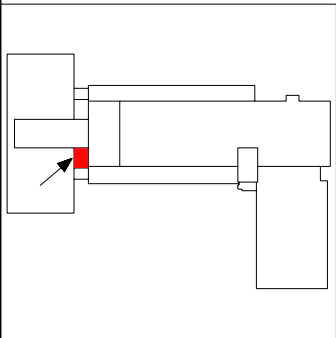
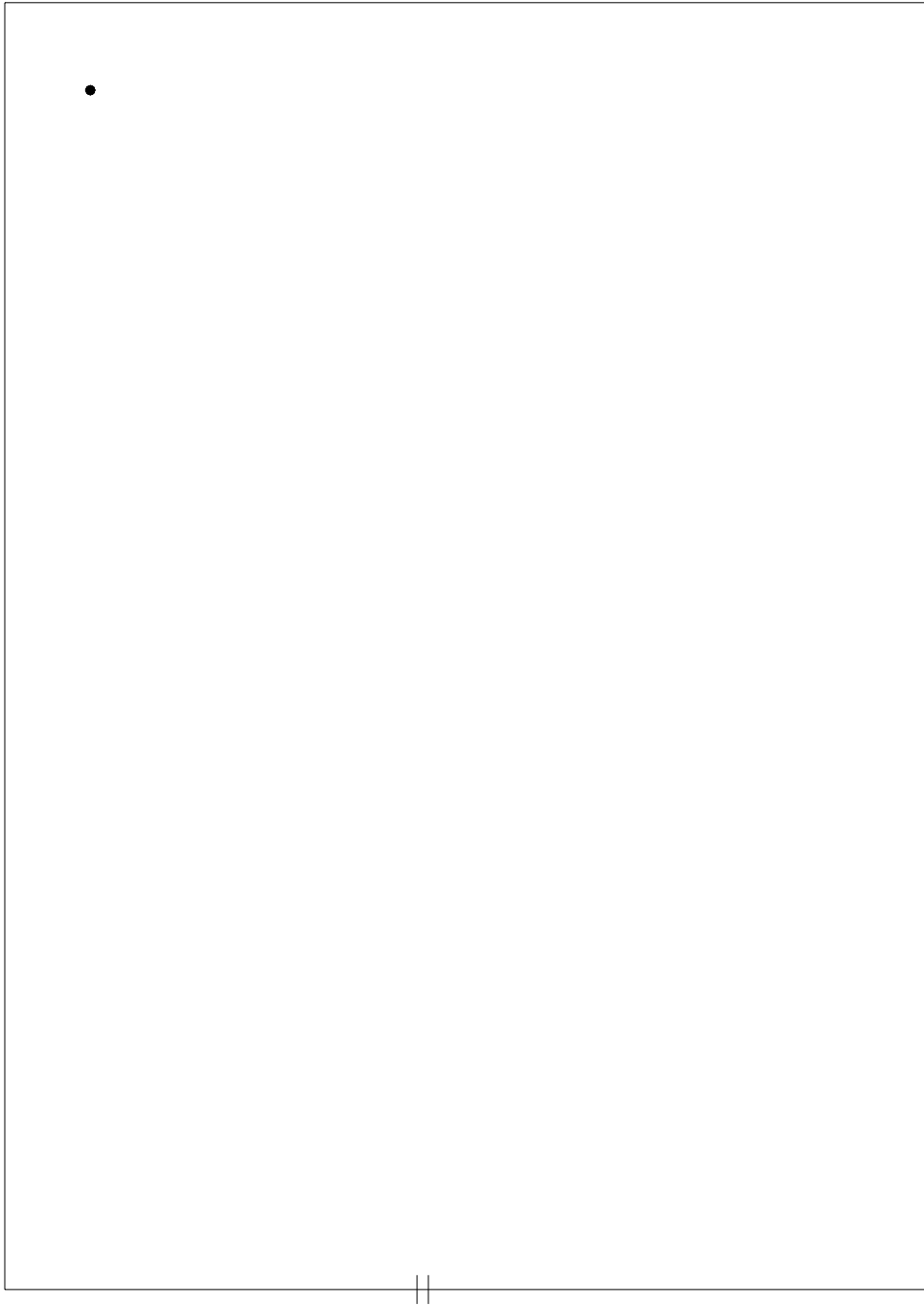
# Roof Corrective Action



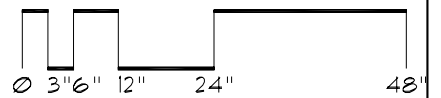
SYMBOLS KEY  
• ROOF DRAIN  
|| SCUPPER



# Roof Corrective Action



SYMBOLS KEY  
• ROOF DRAIN  
†† SCUPPER





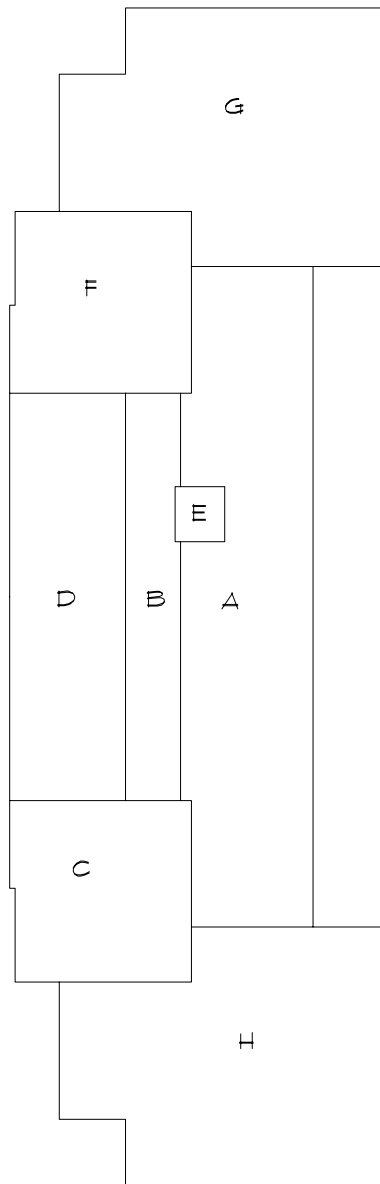
# Roof ID

**Building:** EB062 - Murphy Hall - (206 Church Street SE Minneapolis)

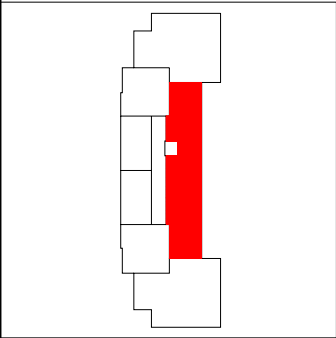
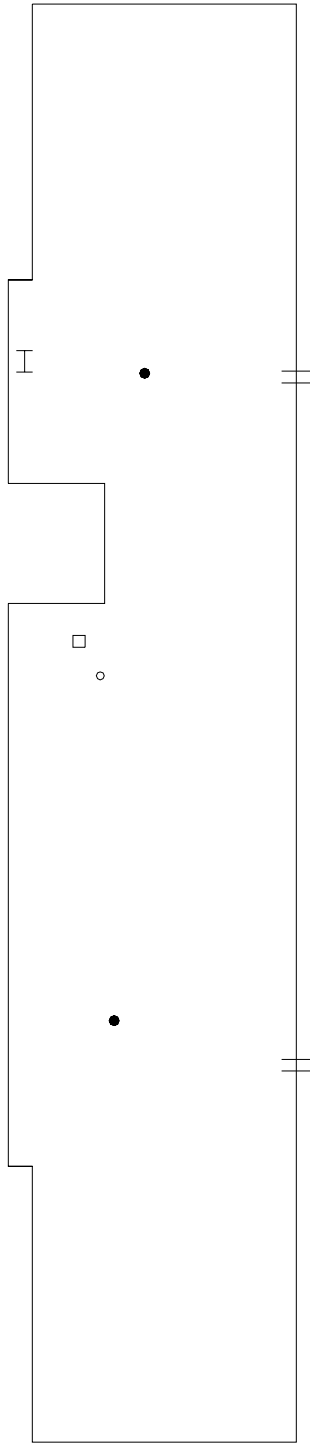
**Roof Access:** North stairwell: North stairwell-A, B, C, D & F- Mechanical room 520 D-Ladder G & H

**Total Area:** 12,004 sf

<u>A</u>	<u>2,708</u>	<u>E</u>	<u>90</u>
<u>B</u>	<u>730</u>	<u>F</u>	<u>1,072</u>
<u>C</u>	<u>1,072</u>	<u>G</u>	<u>2,389</u>
<u>D</u>	<u>1,554</u>	<u>H</u>	<u>2,389</u>

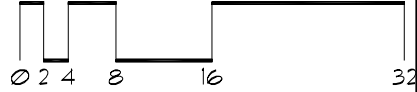
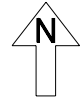


# Roof Corrective Action

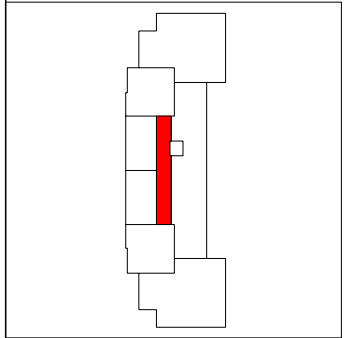
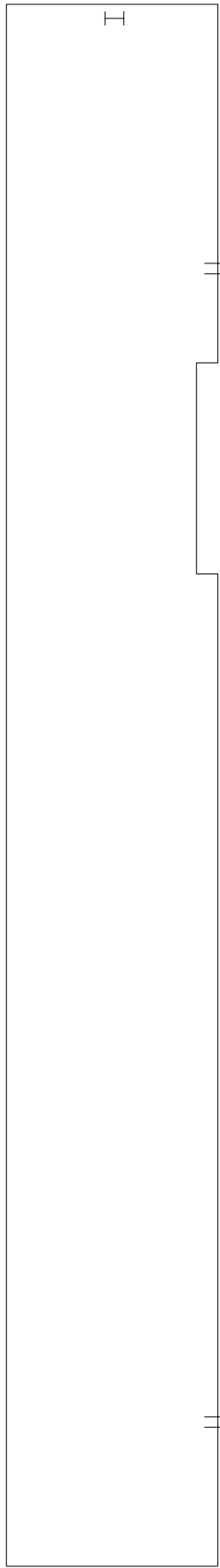


## SYMBOLS KEY

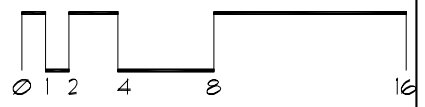
- † SCUPPER
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- I LADDER



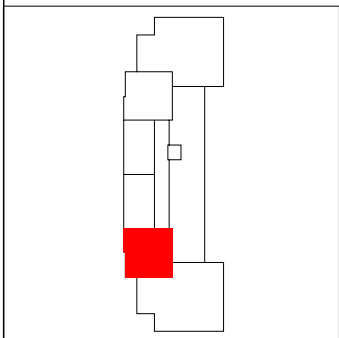
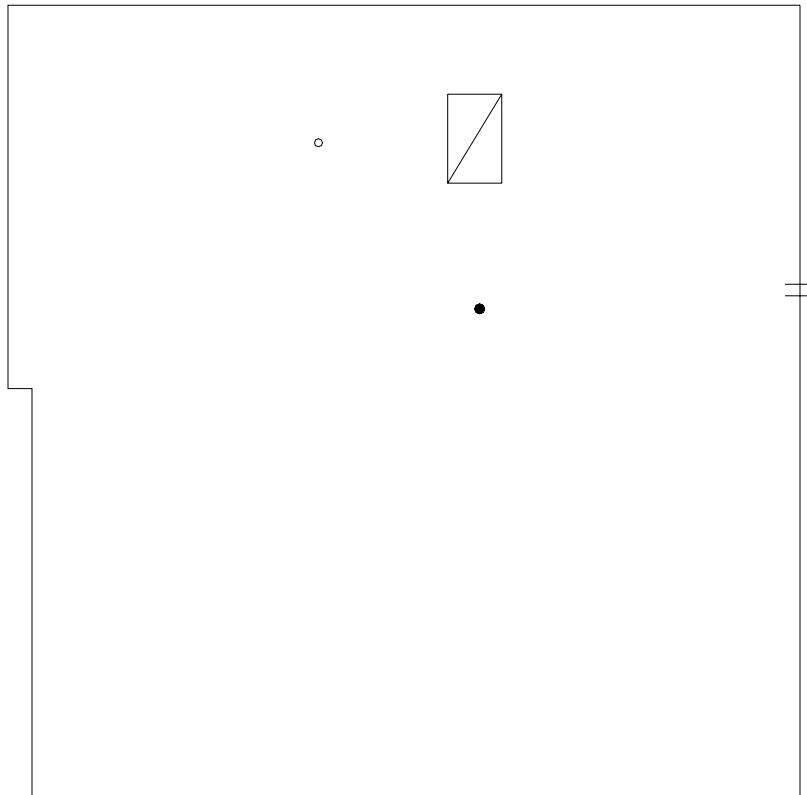
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER  
I LADDER

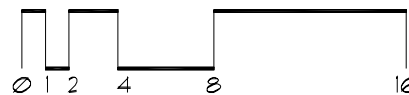


# Roof Corrective Action

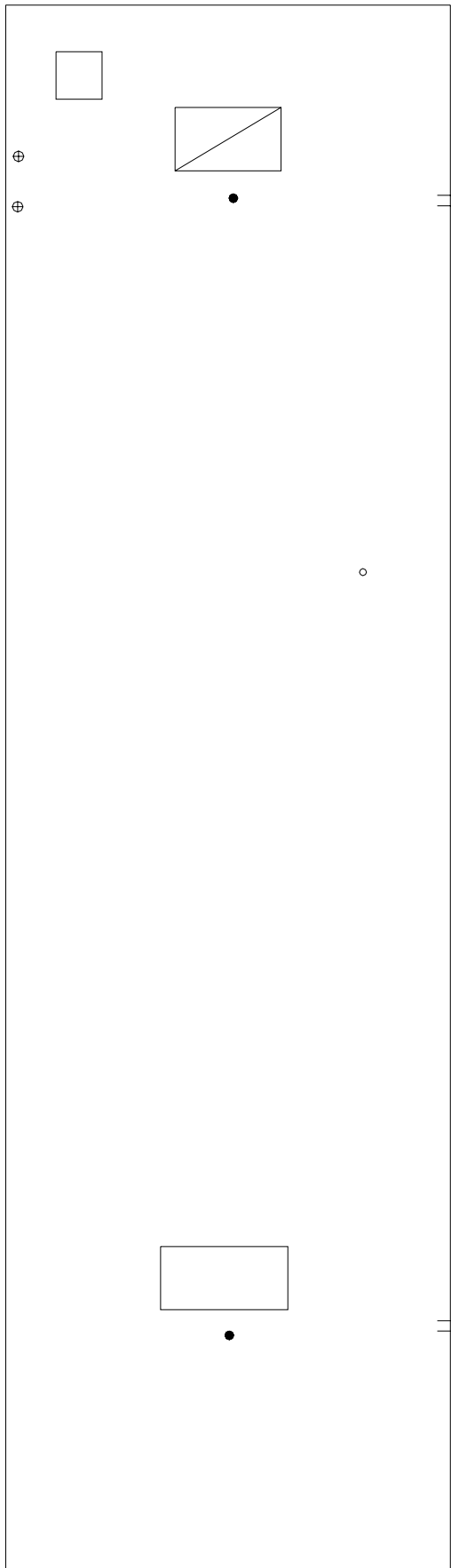


## SYMBOLS KEY

- ROOF DRAIN
- VENT STACK
- ≡ SCUPPER
- ▣ ROOF HATCH

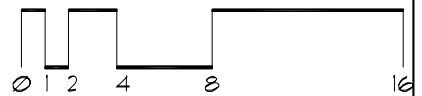
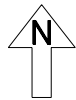
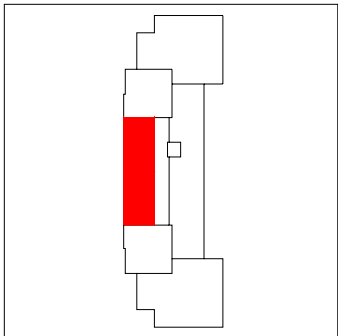


# Roof Corrective Action

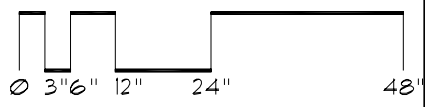
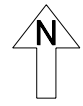
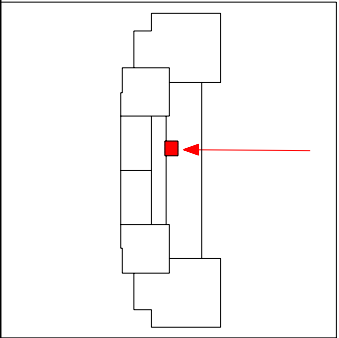
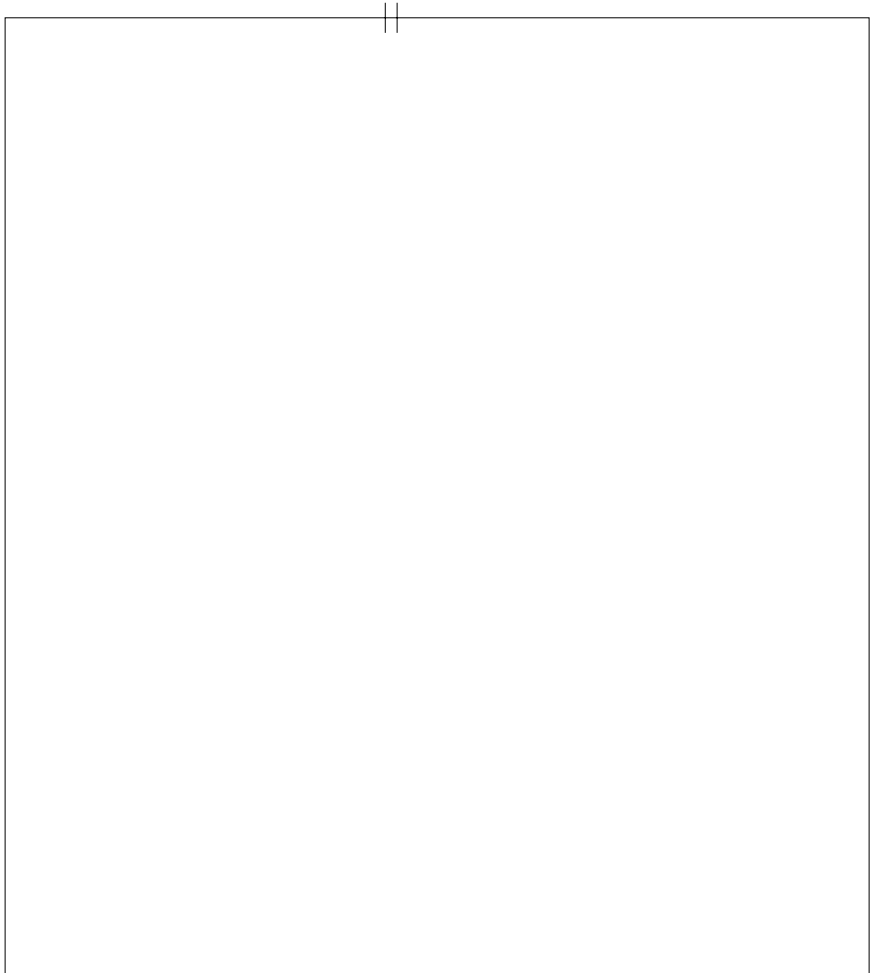


## SYMBOLS KEY

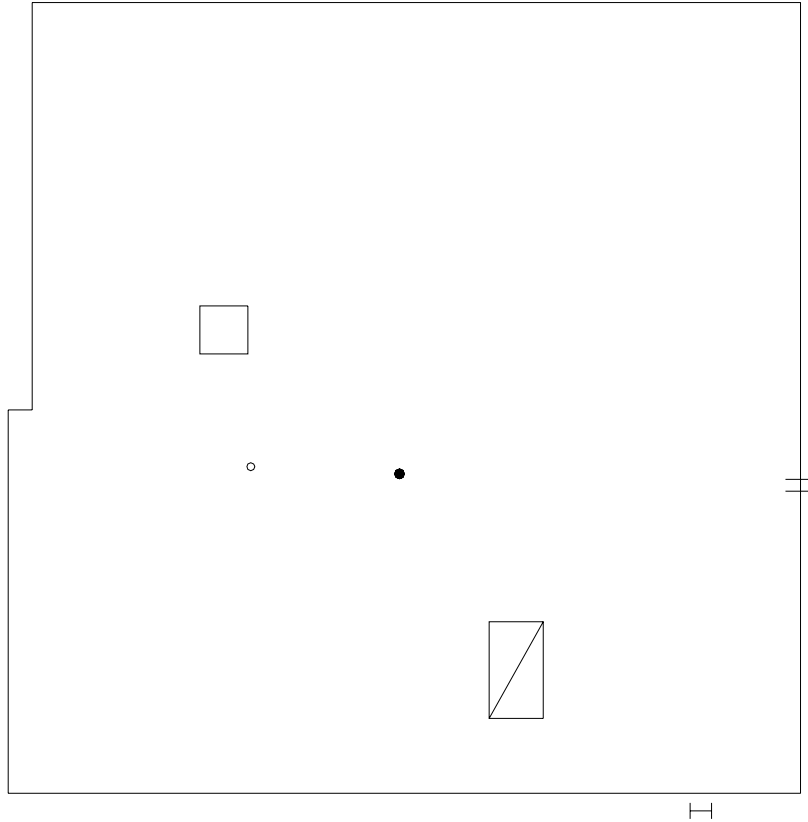
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ⊕ SCUPPER
- ▨ ROOF HATCH
- ⊕ FLASHED PEN.
- Ⓢ DEFECT-REPAIR



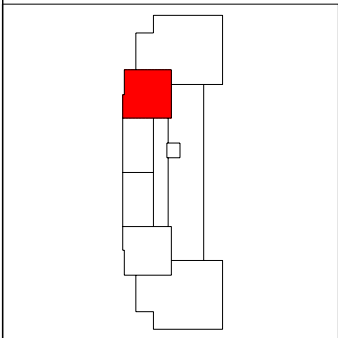
# Roof Corrective Action



# Roof Corrective Action

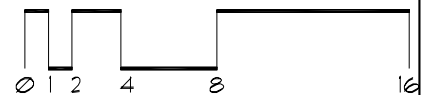


H

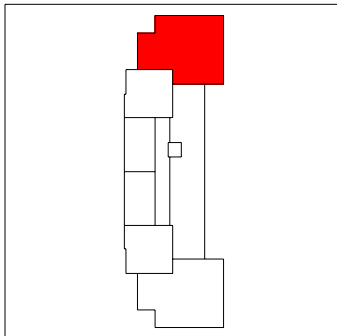
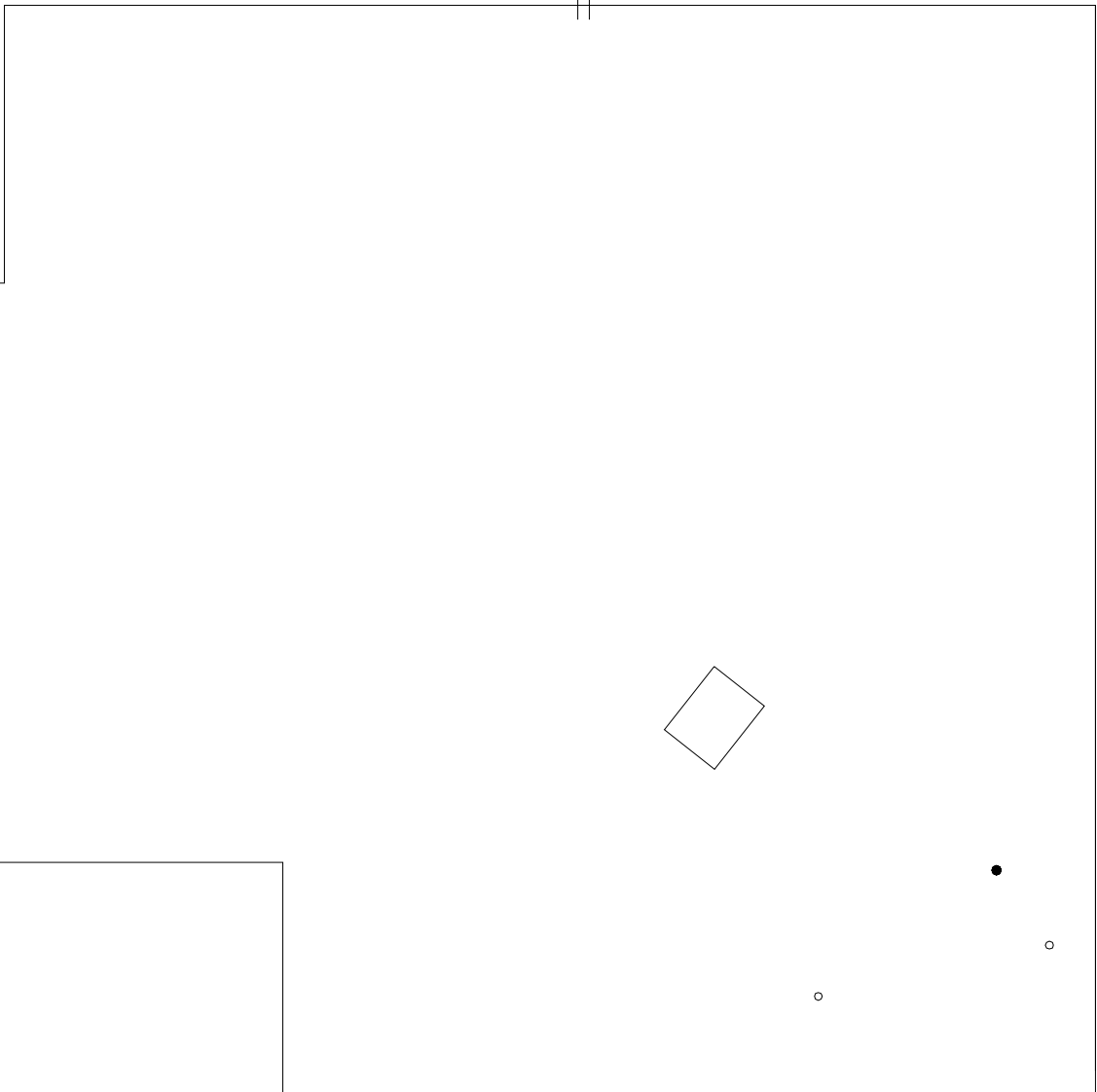


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ▤ ROOF HATCH
- ≡ SCUPPER
- ⊕ DEFECT-REPAIR
- I LADDER

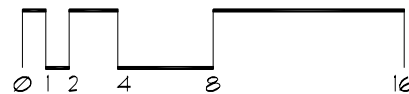


# Roof Corrective Action



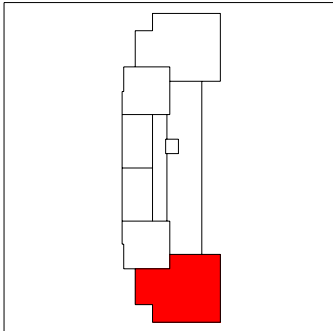
## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ⦶ SCUPPER
- ⊖ DEFECT-REPAIR
- ⊕ DEFECT-NO REPAIR



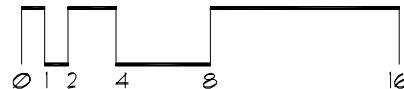


# Roof Corrective Action



## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- || SCUPPER



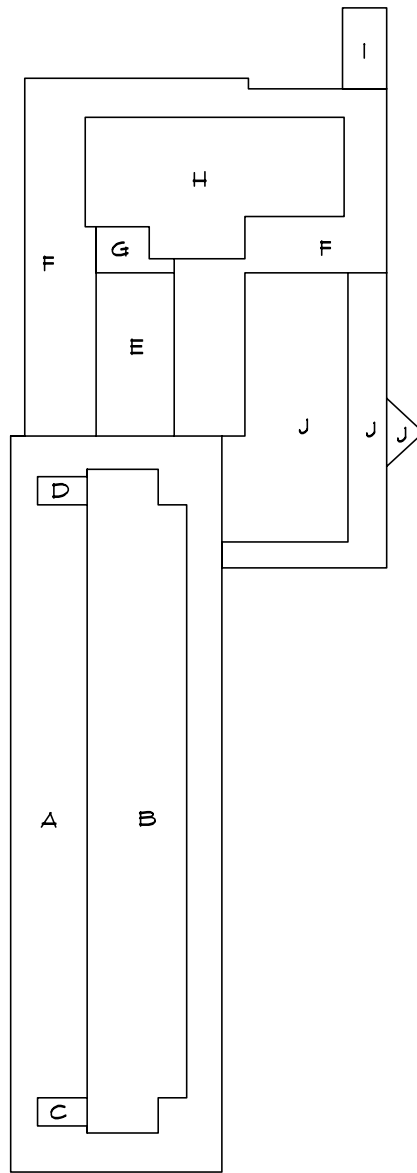
# Roof ID

**Building:** EB066 - Amundson Hall - (421 Washington Avenue SE Minneapolis)

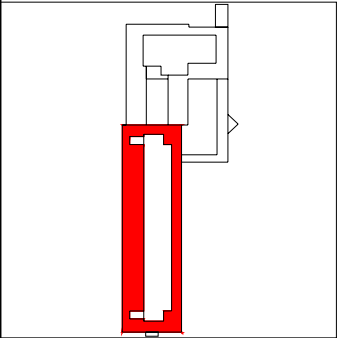
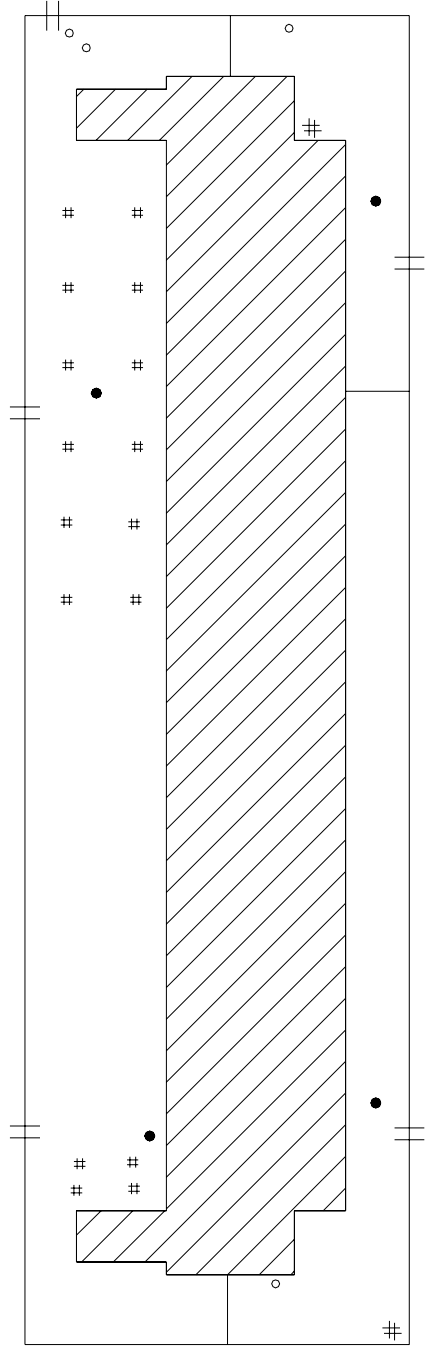
**Roof Access:** Stairwell below area D

**Total Area:** 24,856 sf

<u>A</u>	<u>6,936</u>	<u>E</u>	<u>990</u>	<u>I</u>	<u>264</u>
<u>B</u>	<u>5,236</u>	<u>F</u>	<u>4,688</u>	<u>J</u>	<u>3,400</u>
<u>C</u>	<u>154</u>	<u>G</u>	<u>212</u>	<u>K</u>	<u>400</u>
<u>D</u>	<u>154</u>	<u>H</u>	<u>2,422</u>		

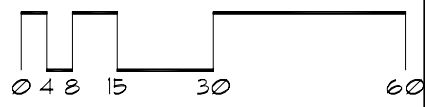


# Roof Corrective Action

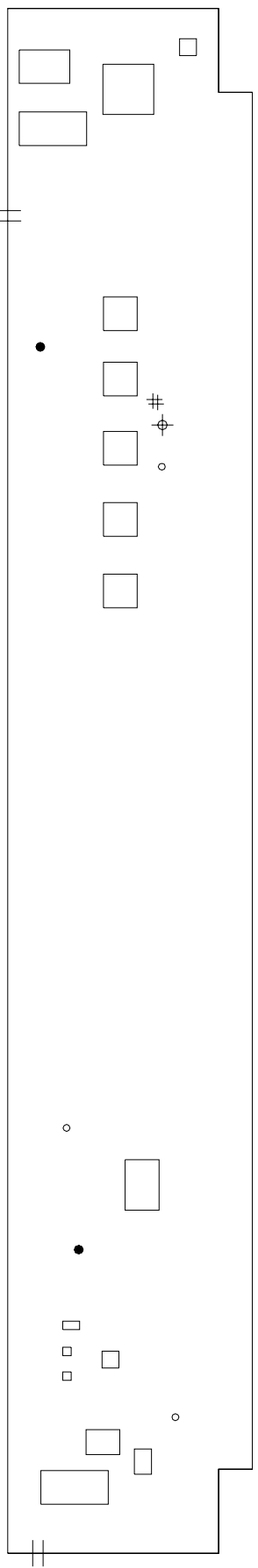


## SYMBOLS KEY

- || SCUPPER
- ROOF CURB
- VENT STACK
- ROOF DRAIN
- # PITCH PAN

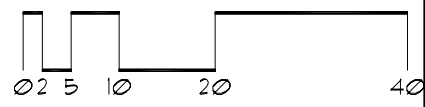
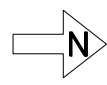
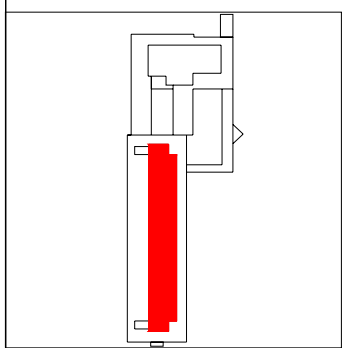


# Roof Corrective Action

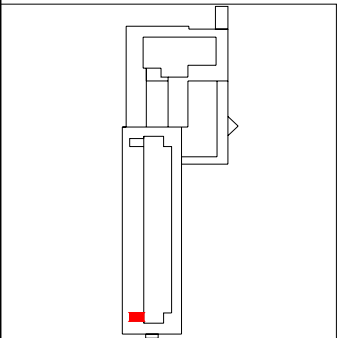
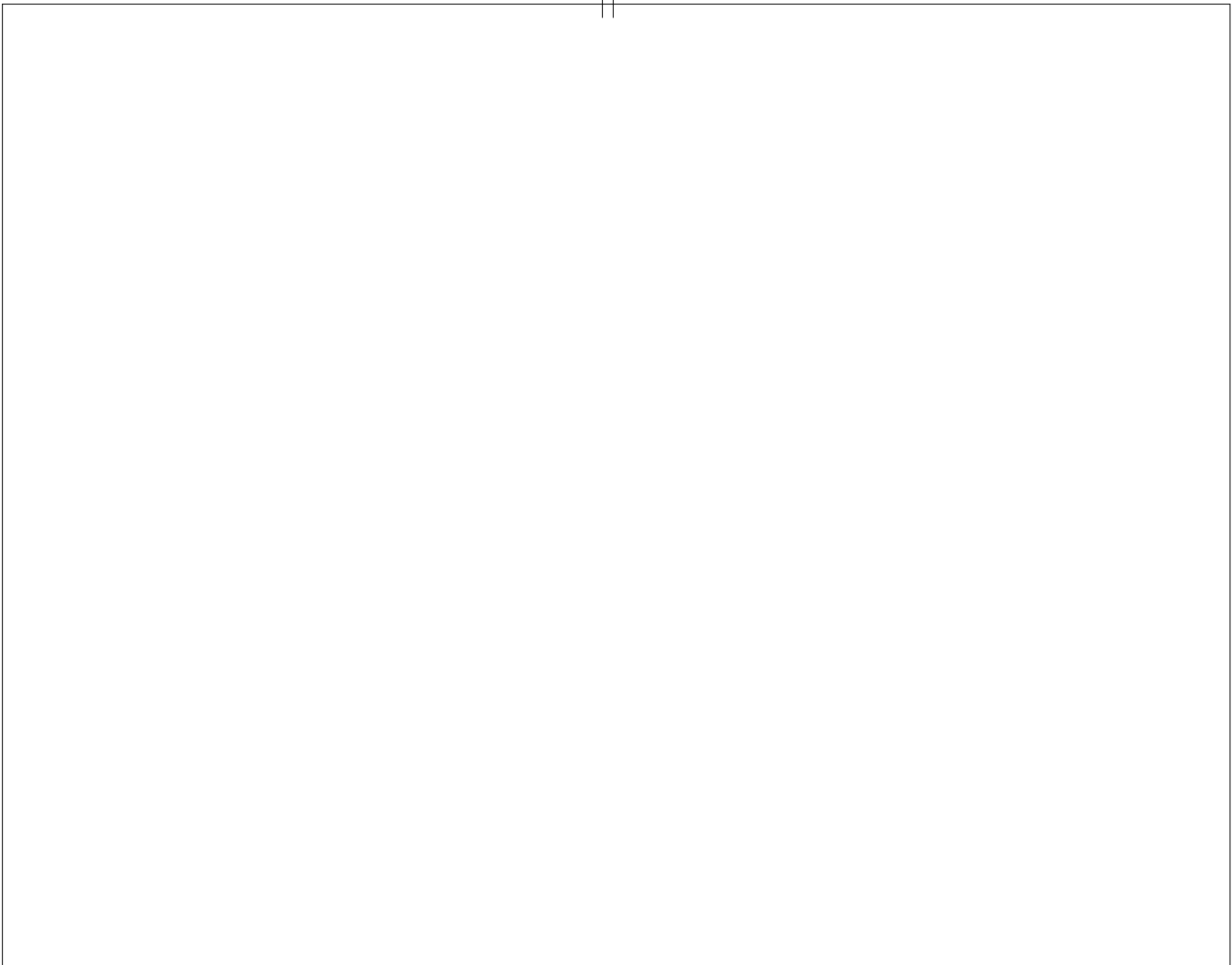


## SYMBOLS KEY

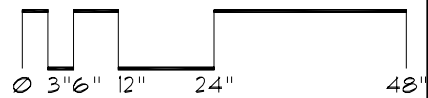
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- || SCUPPER
- ⊞ PITCH PAN
- ⊞⊞ FLASHED PENETRATION
- ⓧ DEFECT-REPAIR



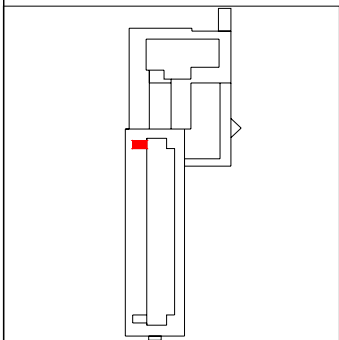
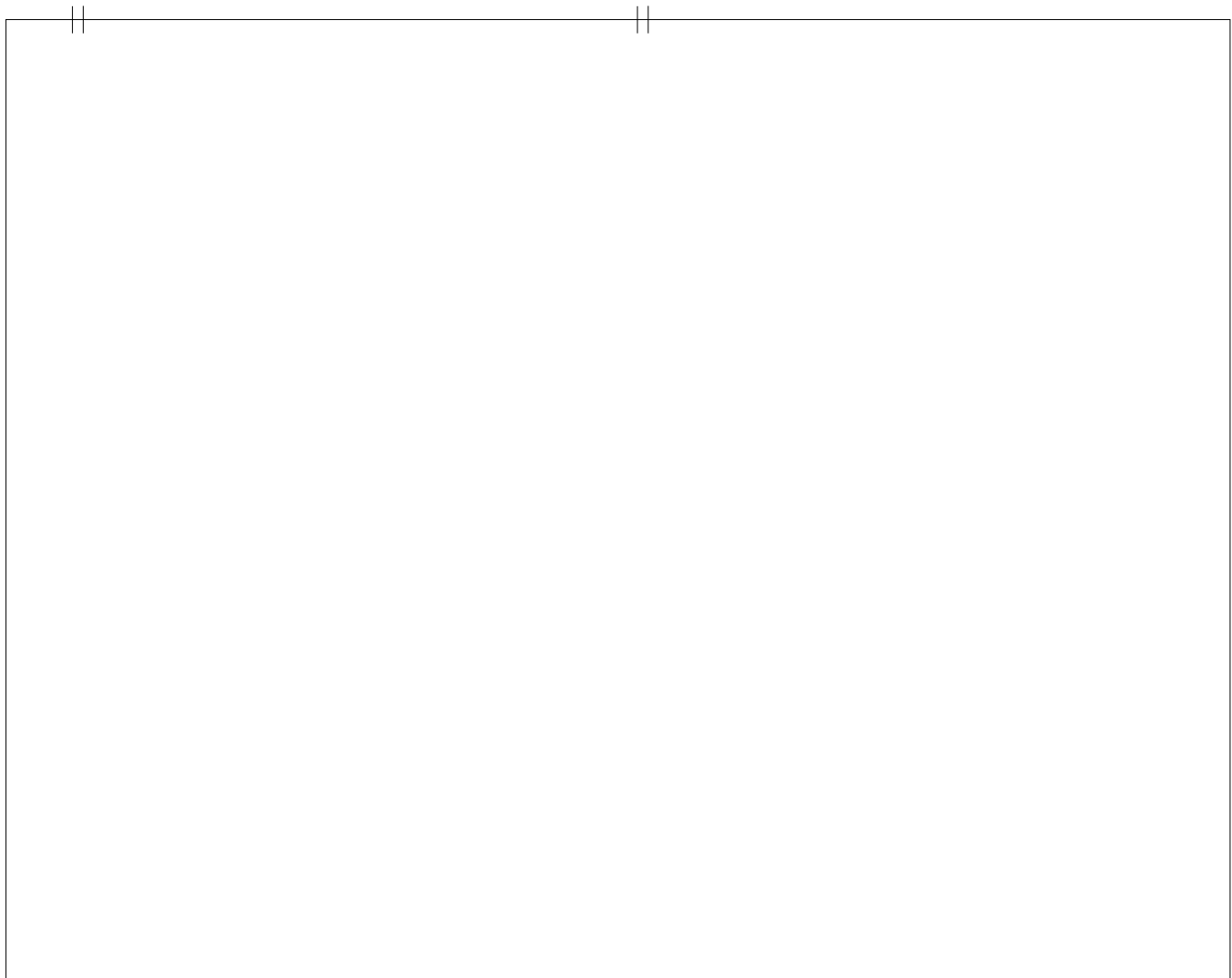
# Roof Corrective Action



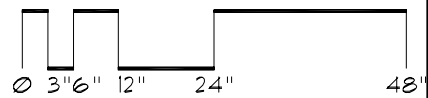
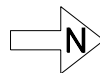
SYMBOLS KEY  
|| SCUPPER



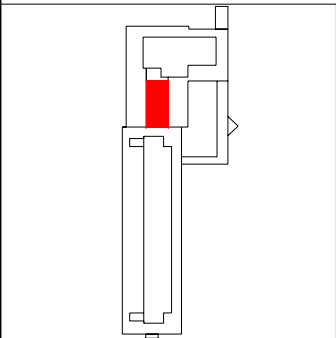
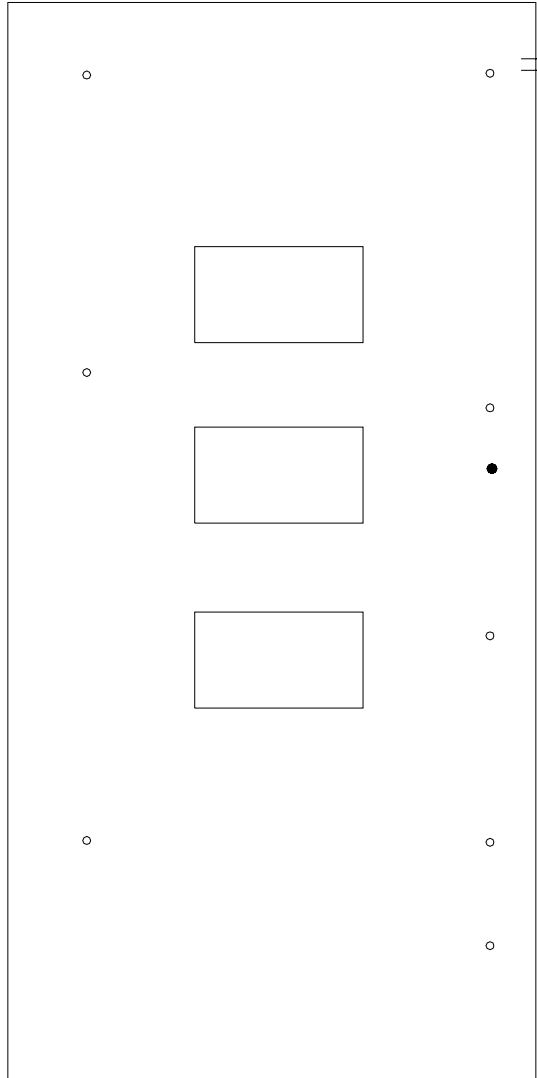
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER

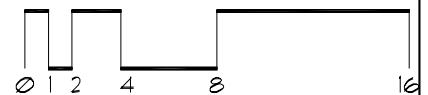


# Roof Corrective Action

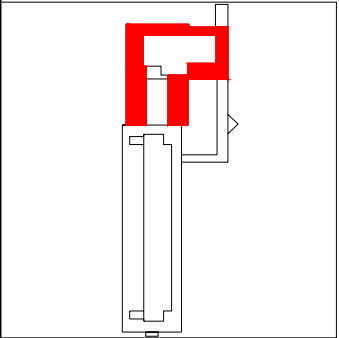
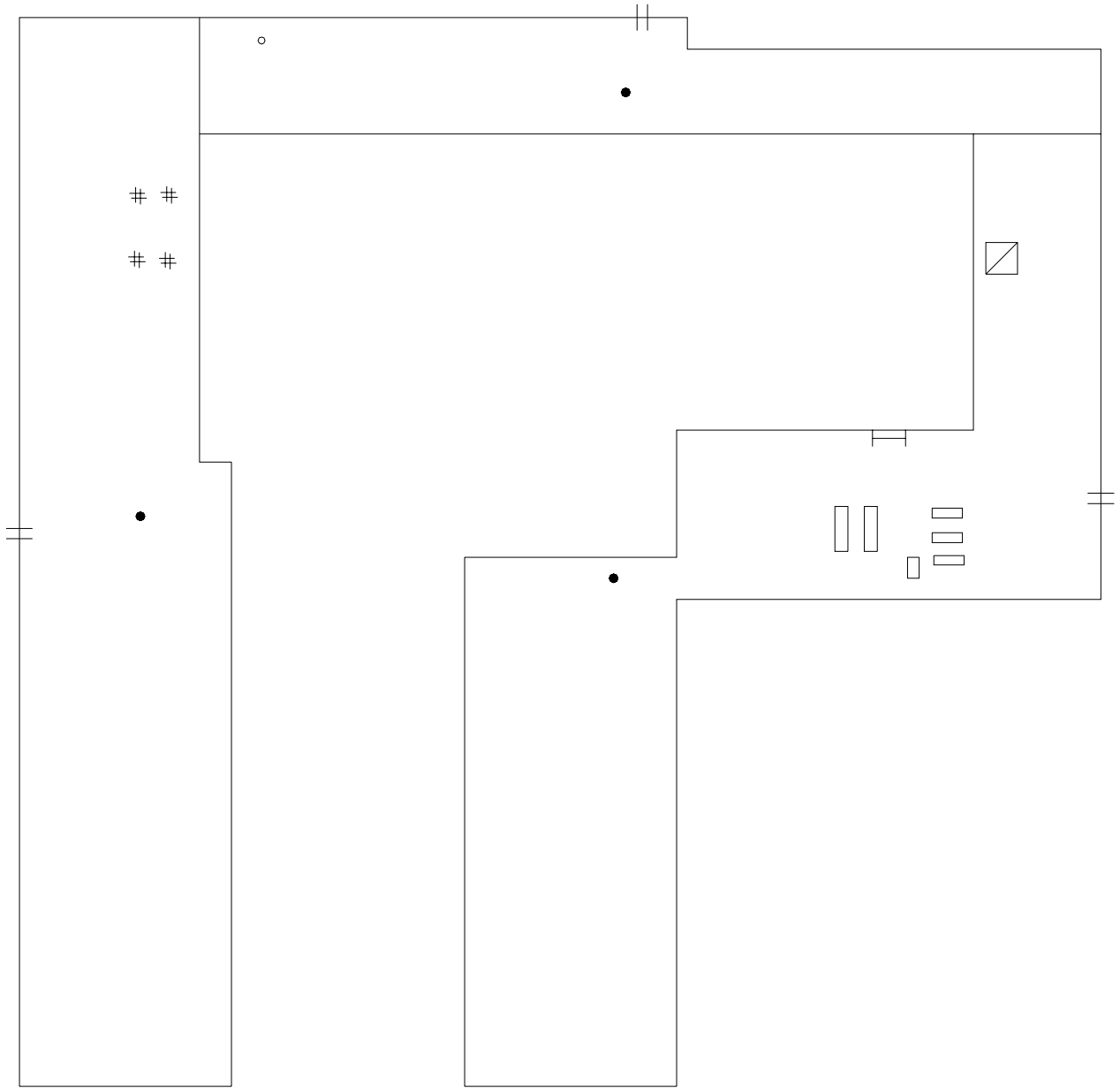


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ⊕ SCUPPER

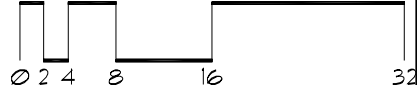


# Roof Corrective Action



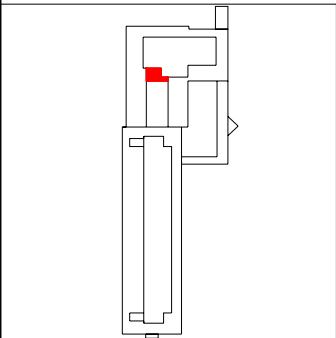
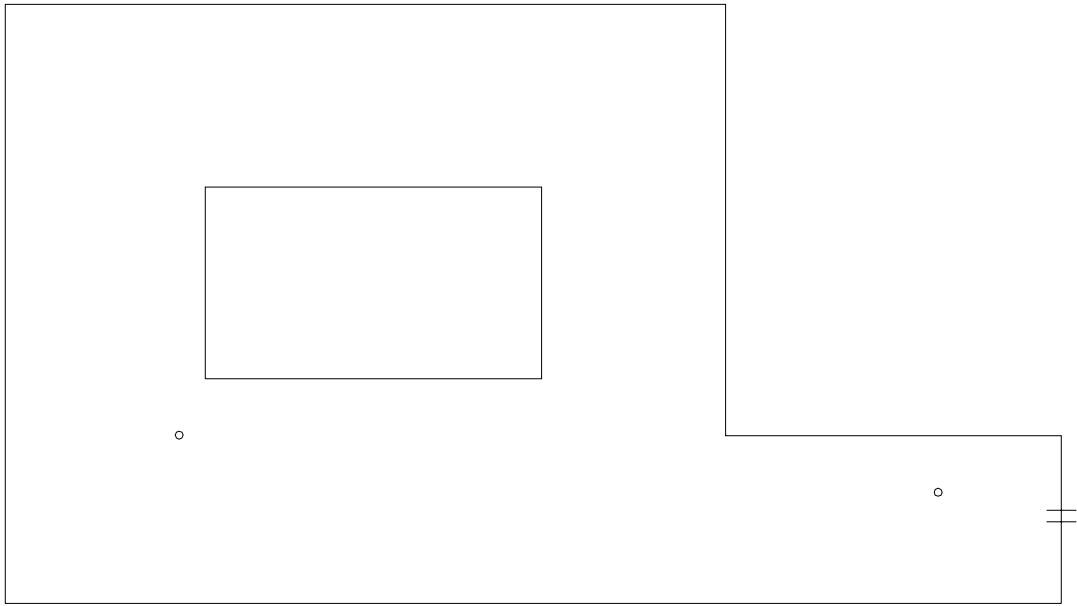
## SYMBOLS KEY

- ROOF DRAIN
- VENT STACK
- # PITCH PAN
- ◻ ROOF HATCH
- I LADDER
- ▭ ROOF CURB
- ⊥ SCUPPER

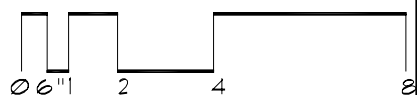
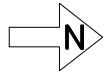




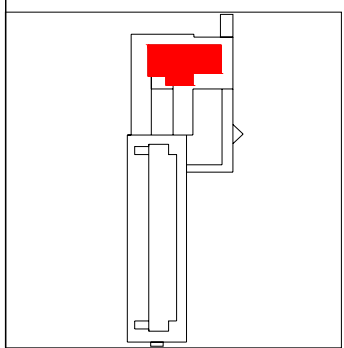
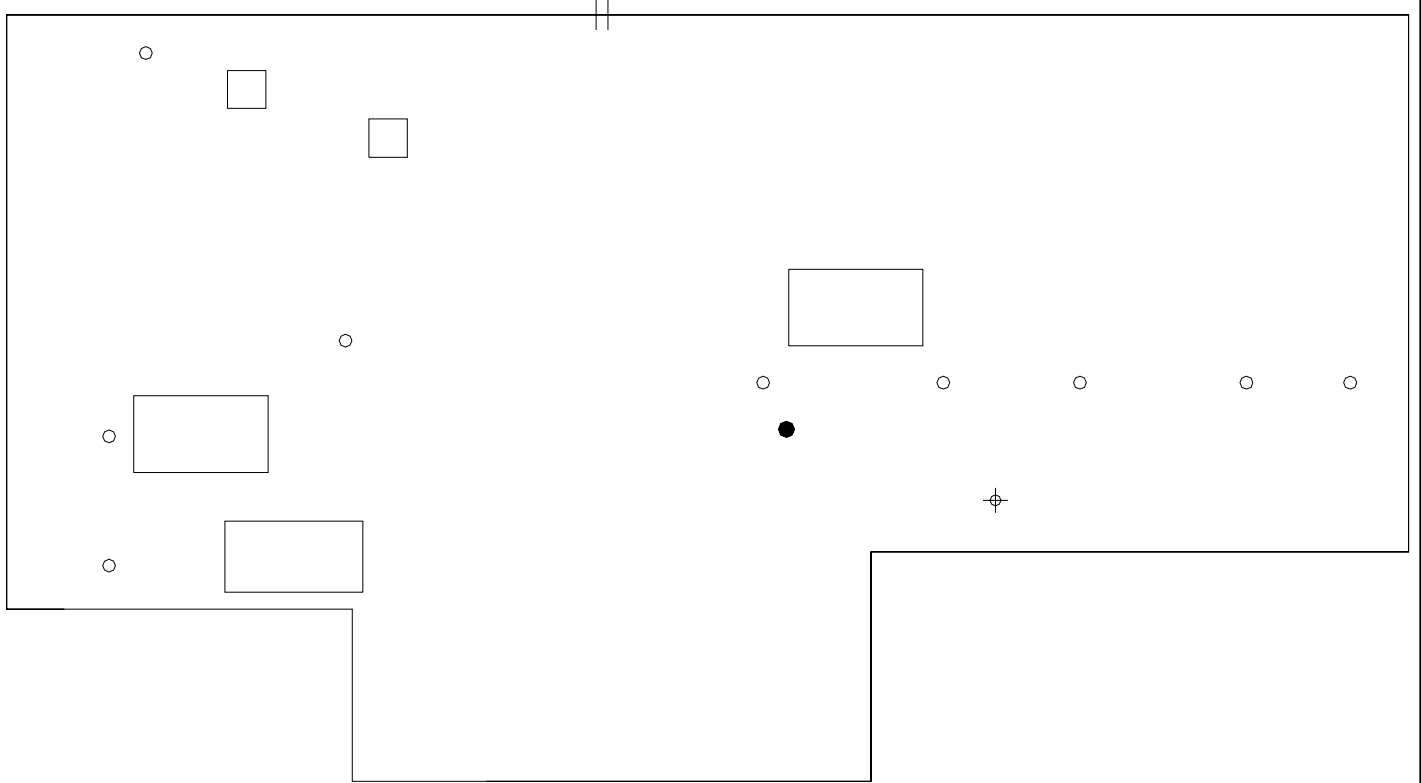
# Roof Corrective Action



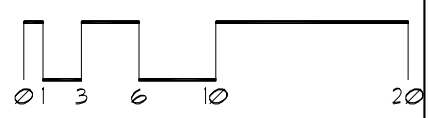
- SYMBOLS KEY
- ROOF CURB
  - VENT STACK
  - † SCUPPER
  - ① DEFECT-NO REPAIR



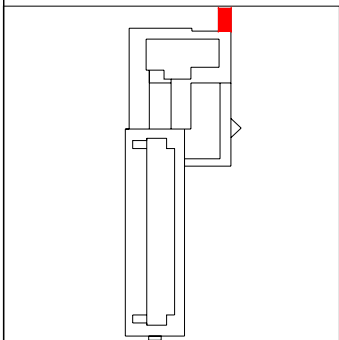
# Roof Corrective Action



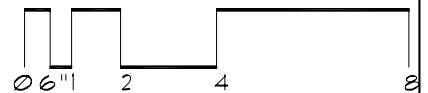
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ⊕ FLASHED PENETRATION



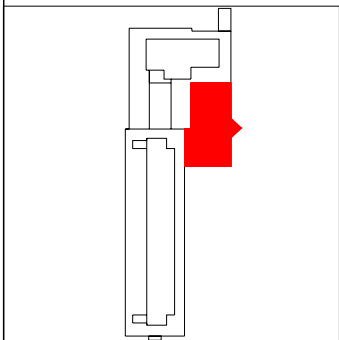
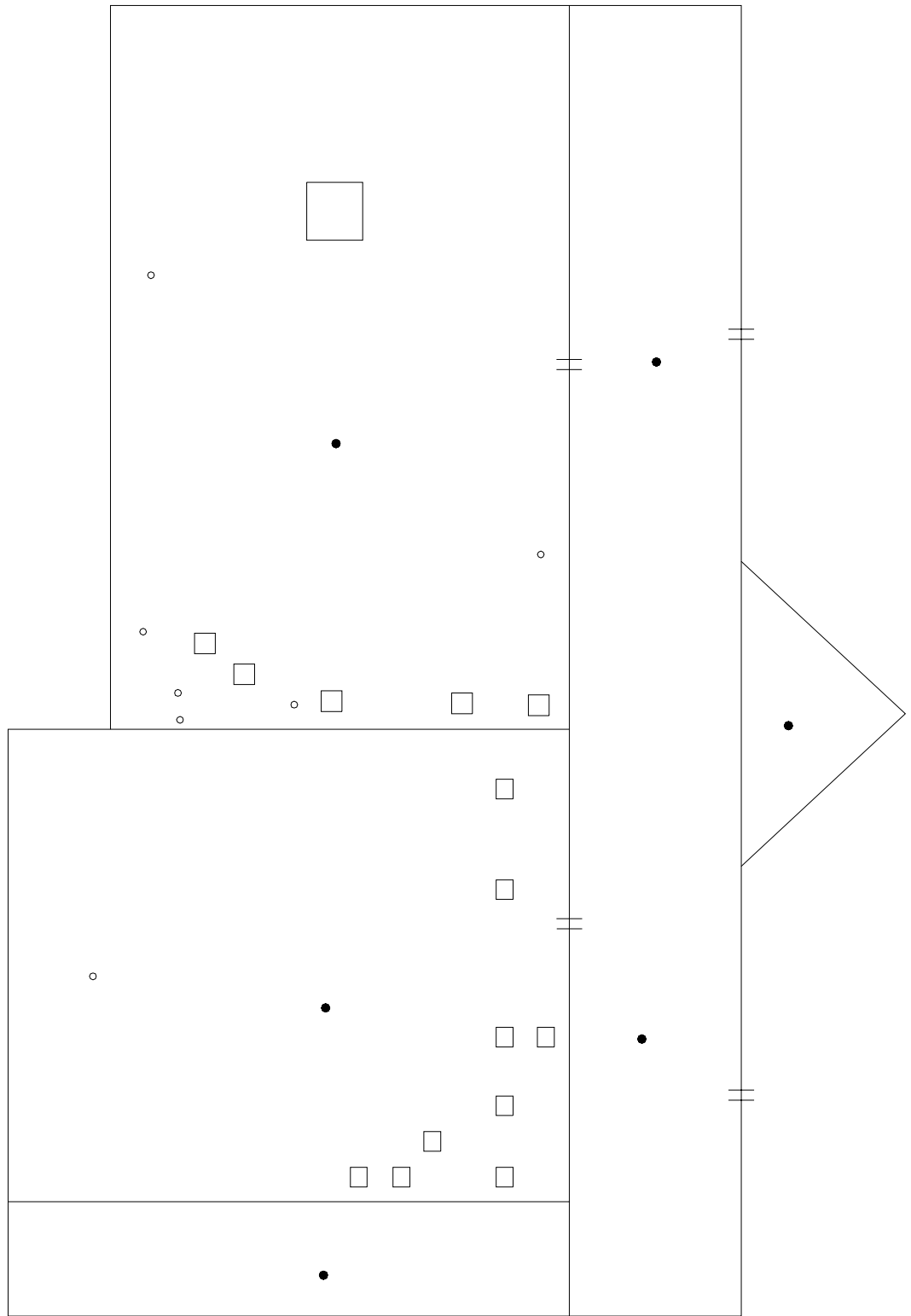
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER

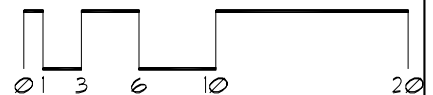


# Roof Corrective Action

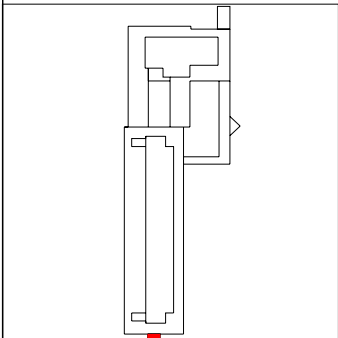
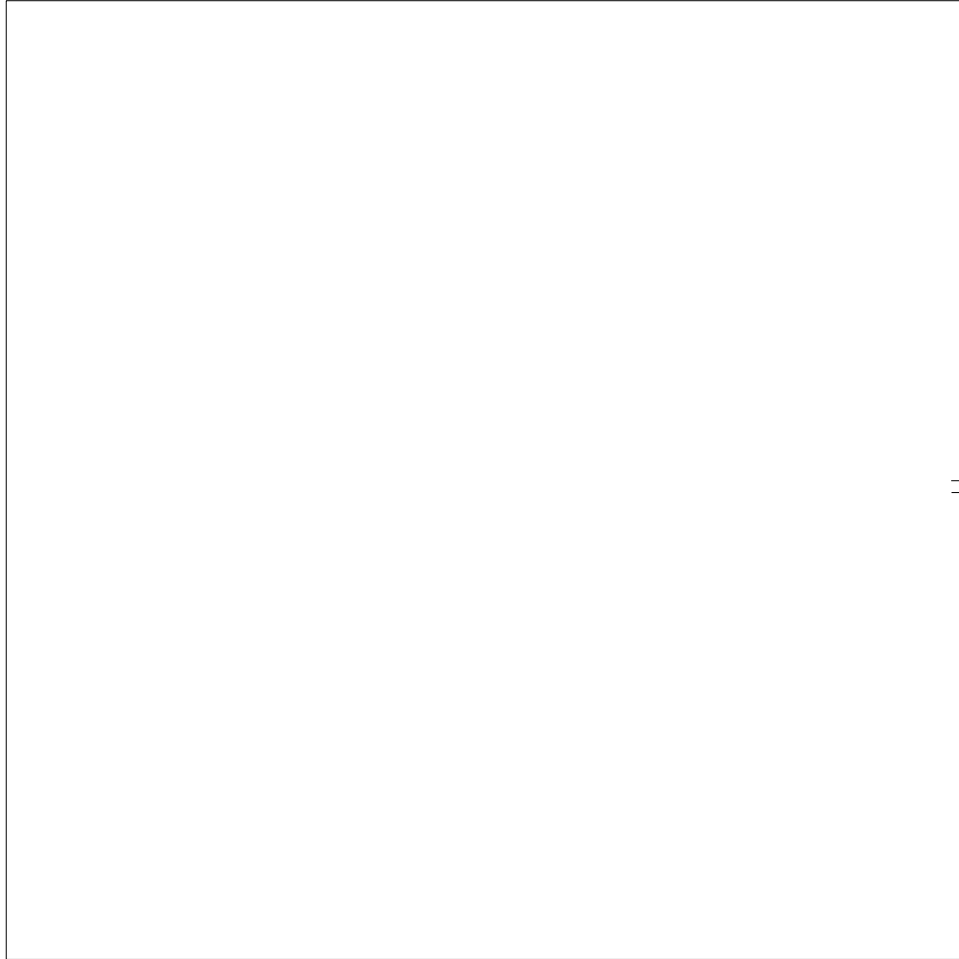


## SYMBOLS KEY

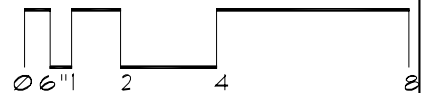
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ≡ SCUPPER



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER



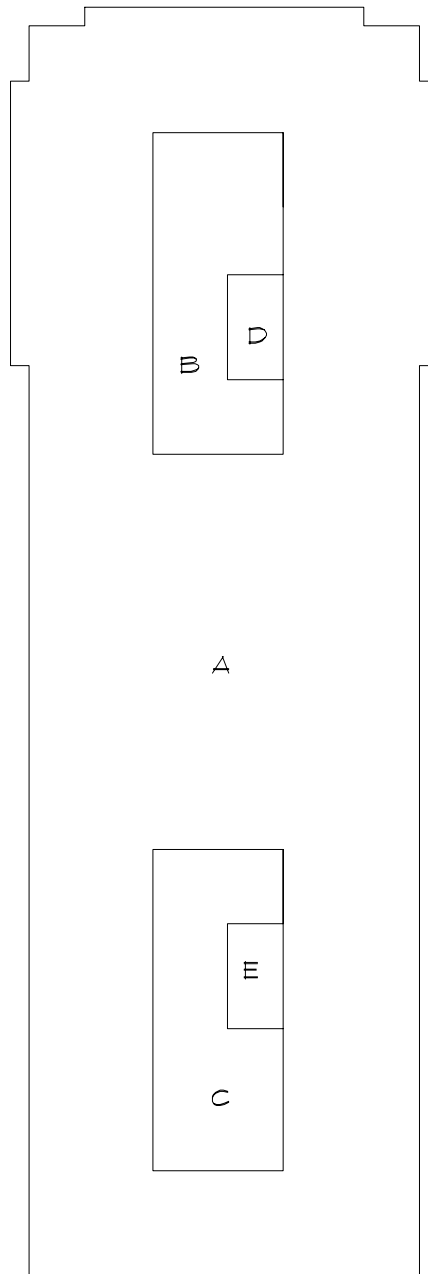
# Roof ID

**Building:** EB071 - Ford Hall - (224 Church Street SE Minneapolis)

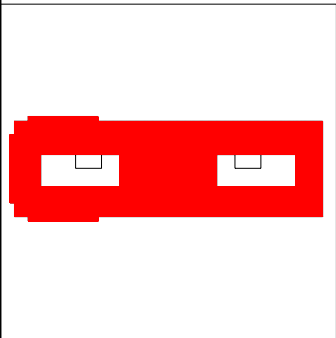
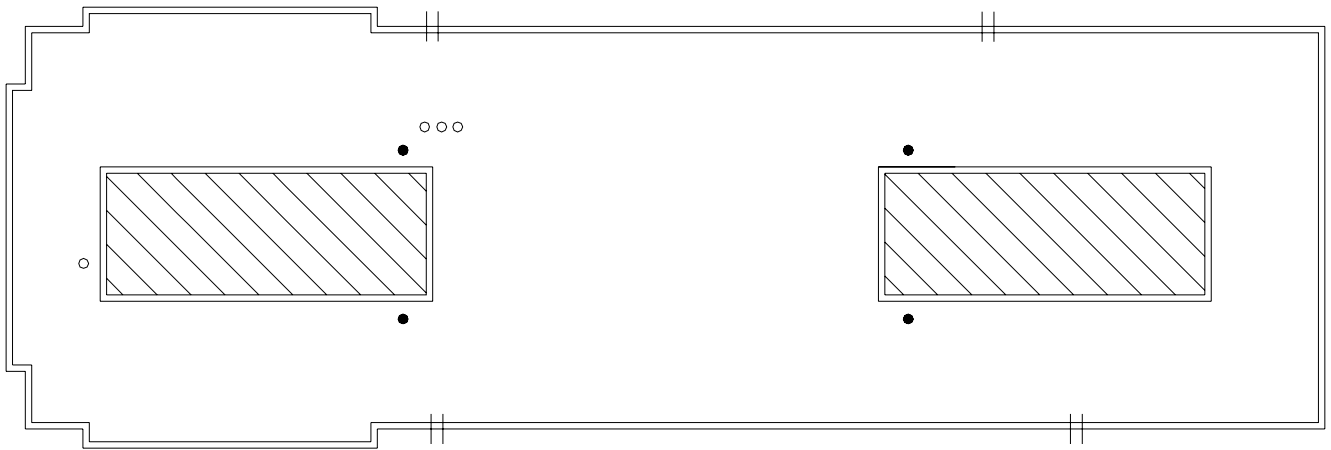
**Roof Access:** West or East stairwells

**Total Area:** 13,200 sf

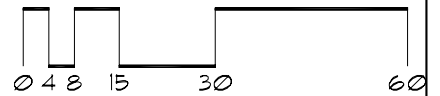
<b>A</b>	<b>11,016</b>	<b>E</b>	<b>153</b>
<b>B</b>	<b>939</b>		
<b>C</b>	<b>939</b>		
<b>D</b>	<b>153</b>		



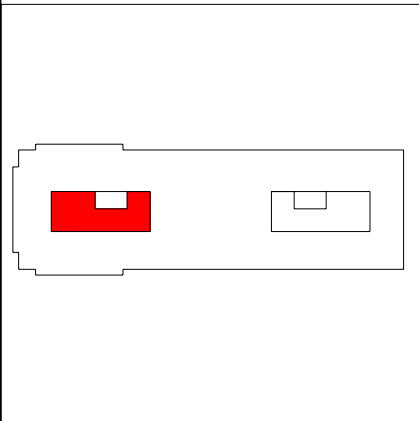
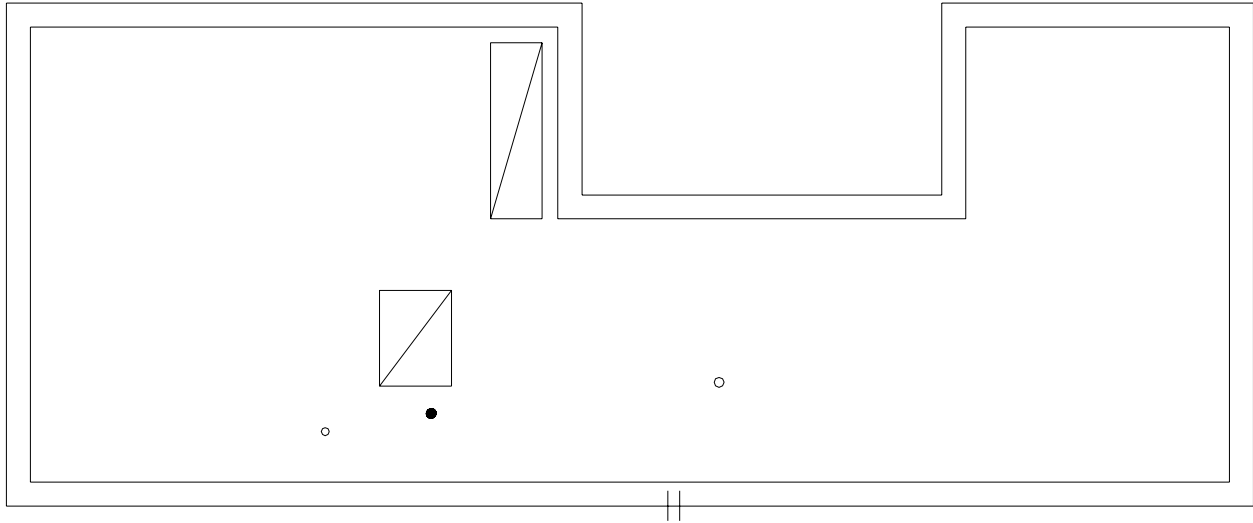
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ⊥ SCUPPER
  - ⊖ DEFECT-REPAIR

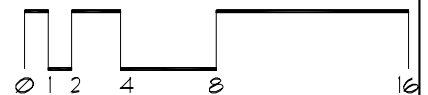


# Roof Corrective Action



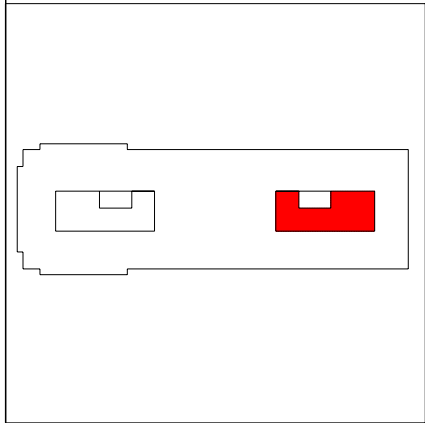
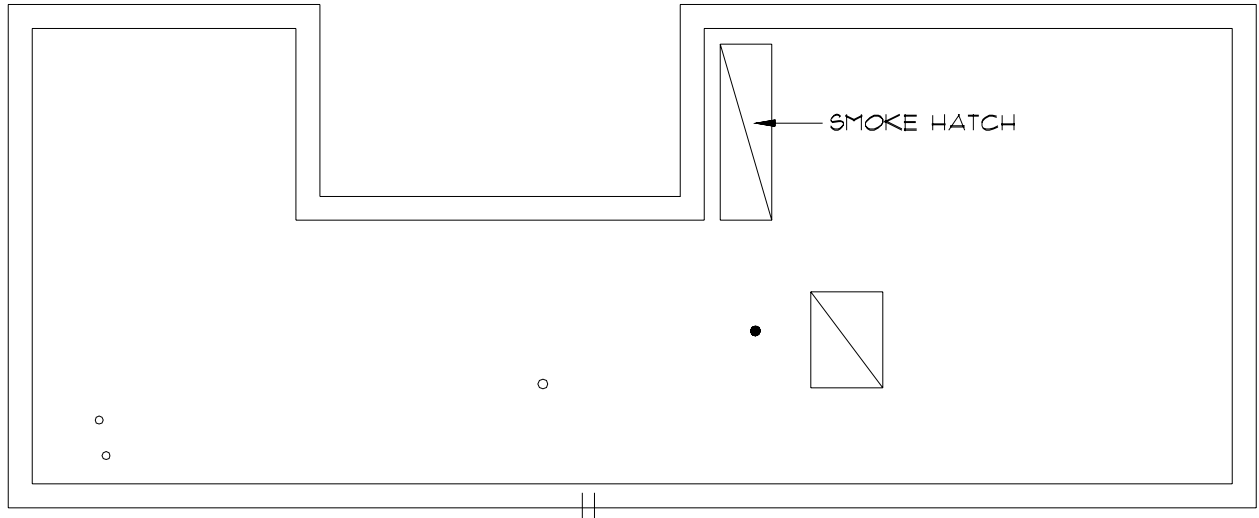
**SYMBOLS KEY**

	ROOF HATCH
	ROOF DRAIN
	VENT STACK
	SCUPPER

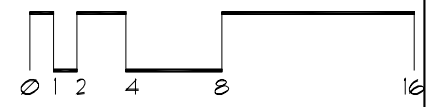




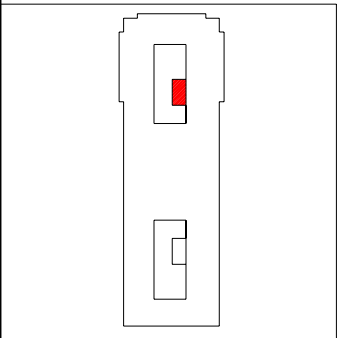
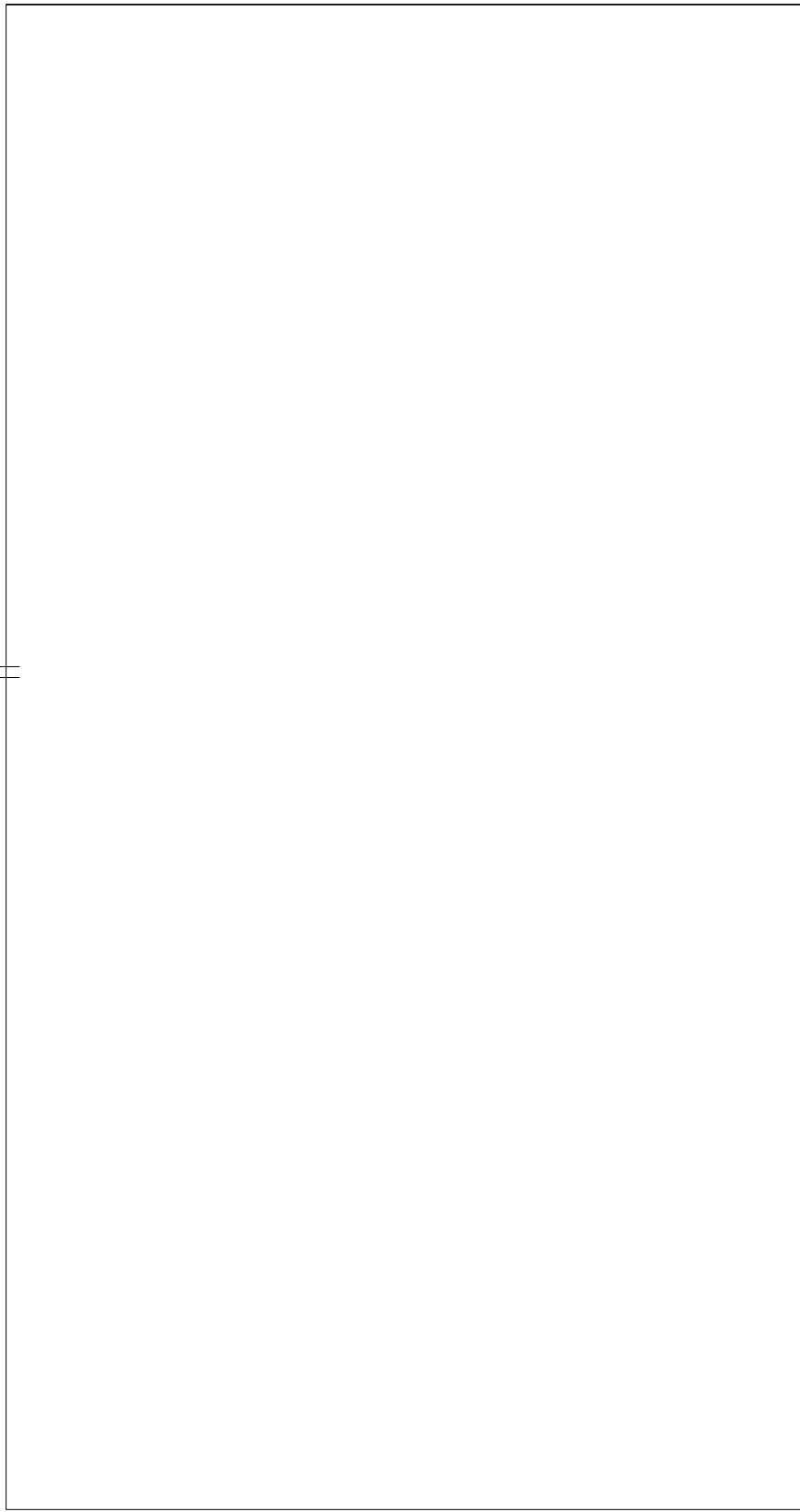
# Roof Corrective Action



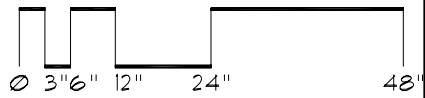
- SYMBOLS KEY**
- ROOF DRAIN
  - VENT STACK
  - † SCUPPER
  - ▣ ROOF HATCH



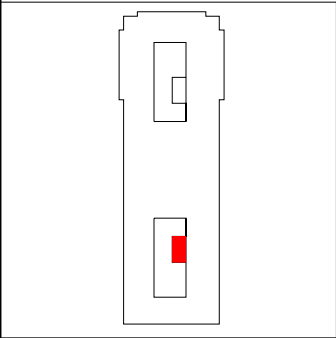
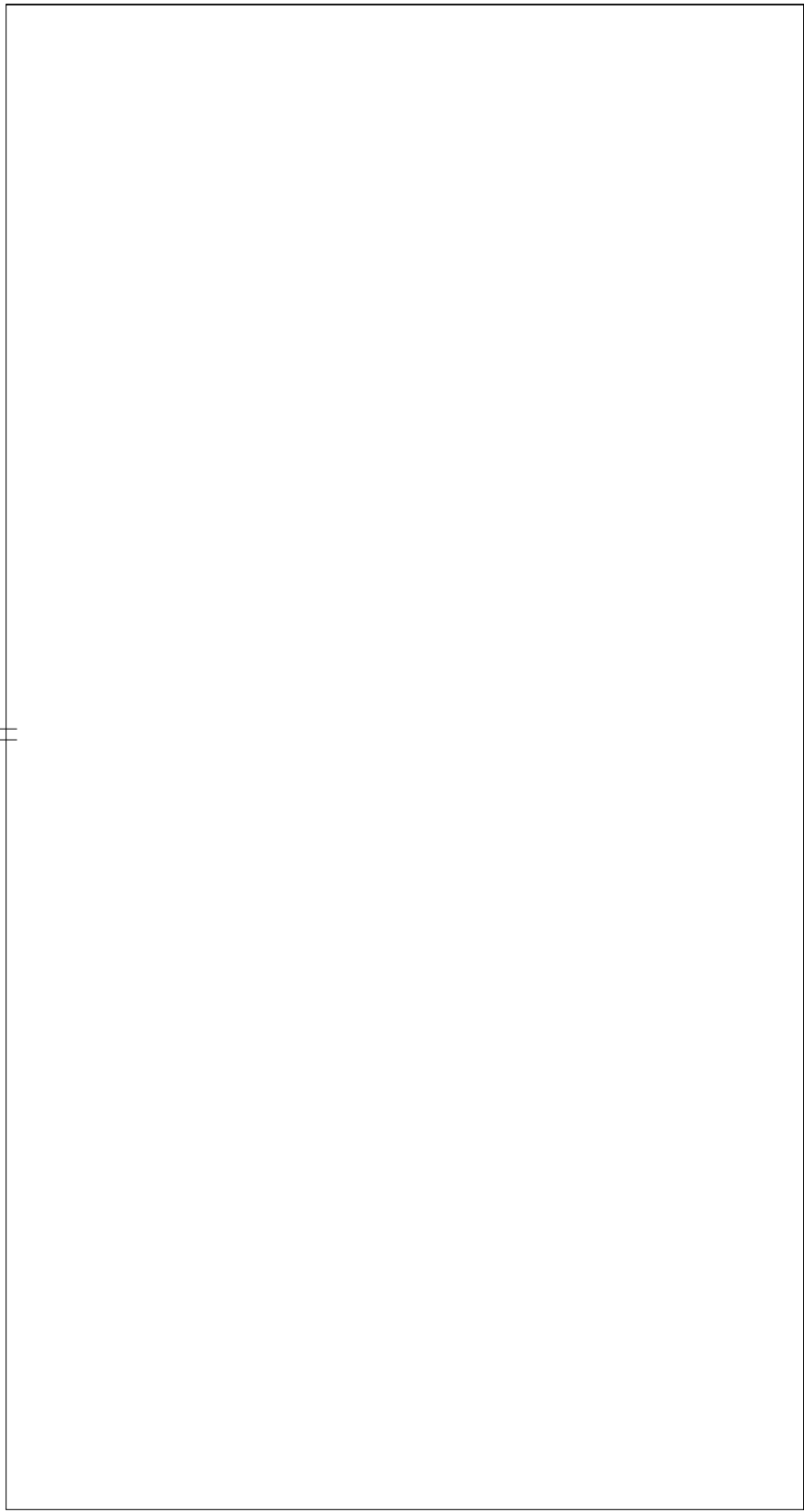
# Roof Corrective Action



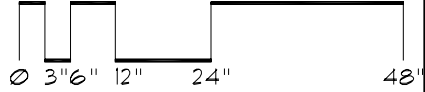
SYMBOLS KEY  
| † SCUPPER



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER



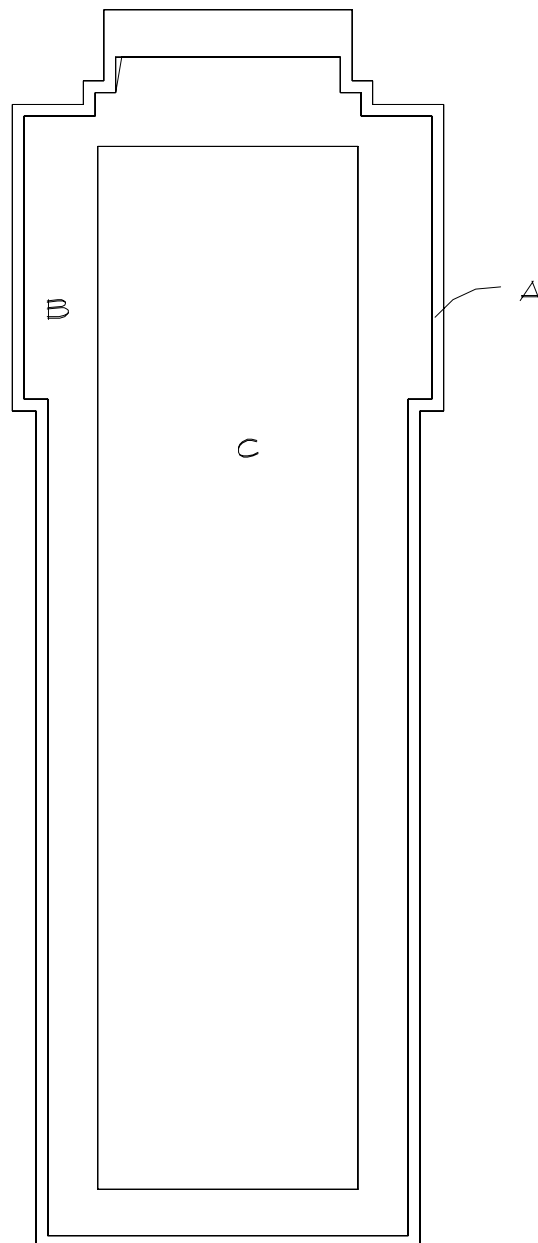
# Roof ID

**Building:** EB073 - Johnston Hall - (101 Pleasant Street SE Minneapolis)

**Roof Access:** East stair

**Total Area:** 13,904 sf

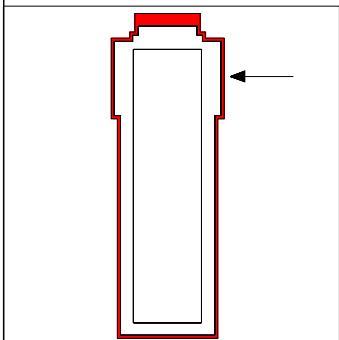
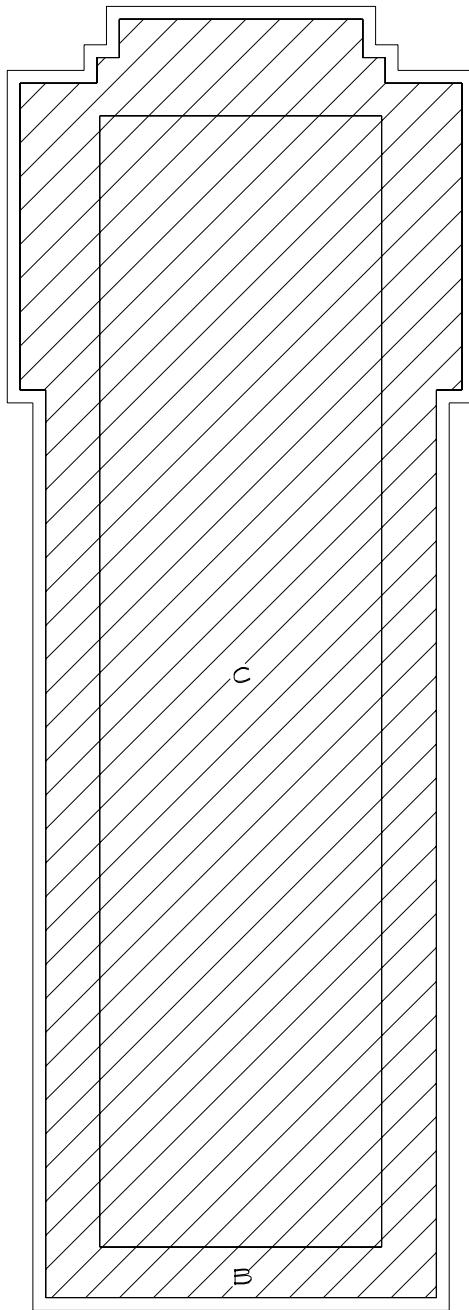
<b>A</b>	<b>1,124</b>
<b>B</b>	<b>4,572</b>
<b>C</b>	<b>8,208</b>



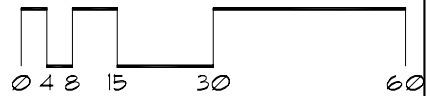
SYMBOLS KEY



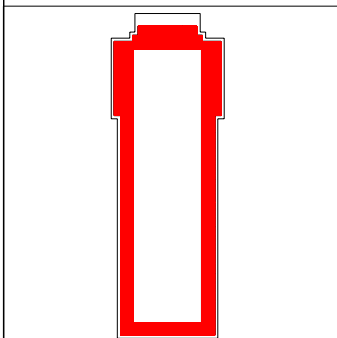
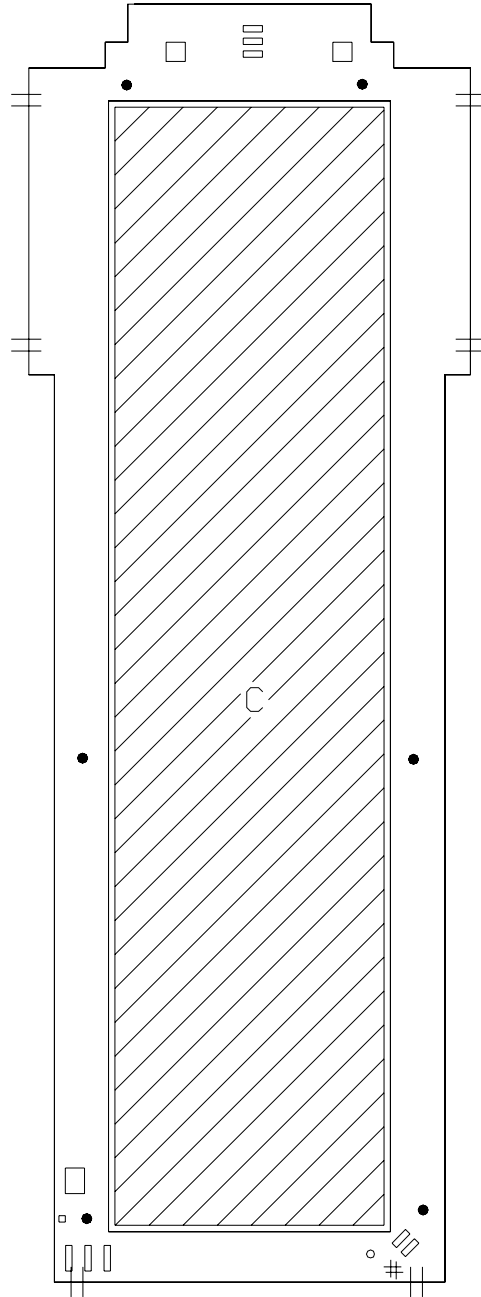
# Roof Corrective Action



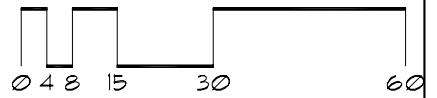
SYMBOLS KEY  
DEFECT-REPAIR



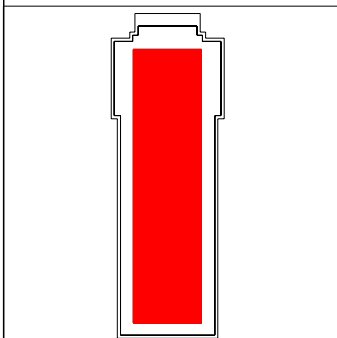
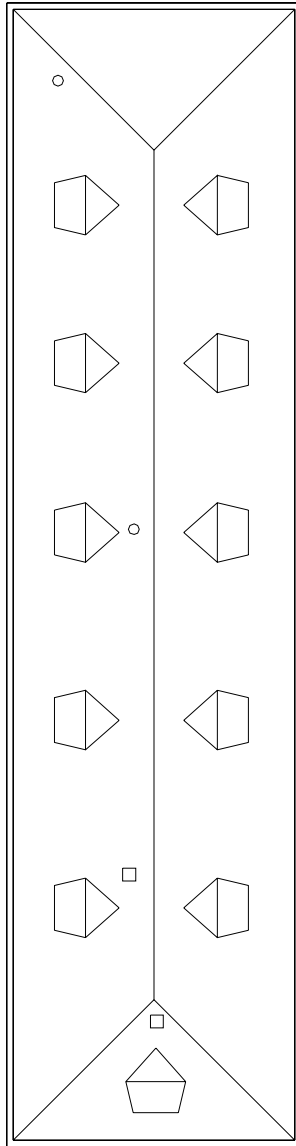
# Roof Corrective Action



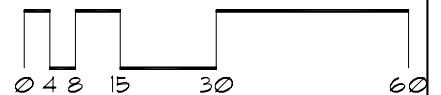
- SYMBOLS KEY**
- || SCUPPER
  - VENT STACK
  - ROOF DRAIN
  - # PITCH PAN



# Roof Corrective Action



SYMBOLS KEY  
□ ROOF CURB  
○ VENT STACK



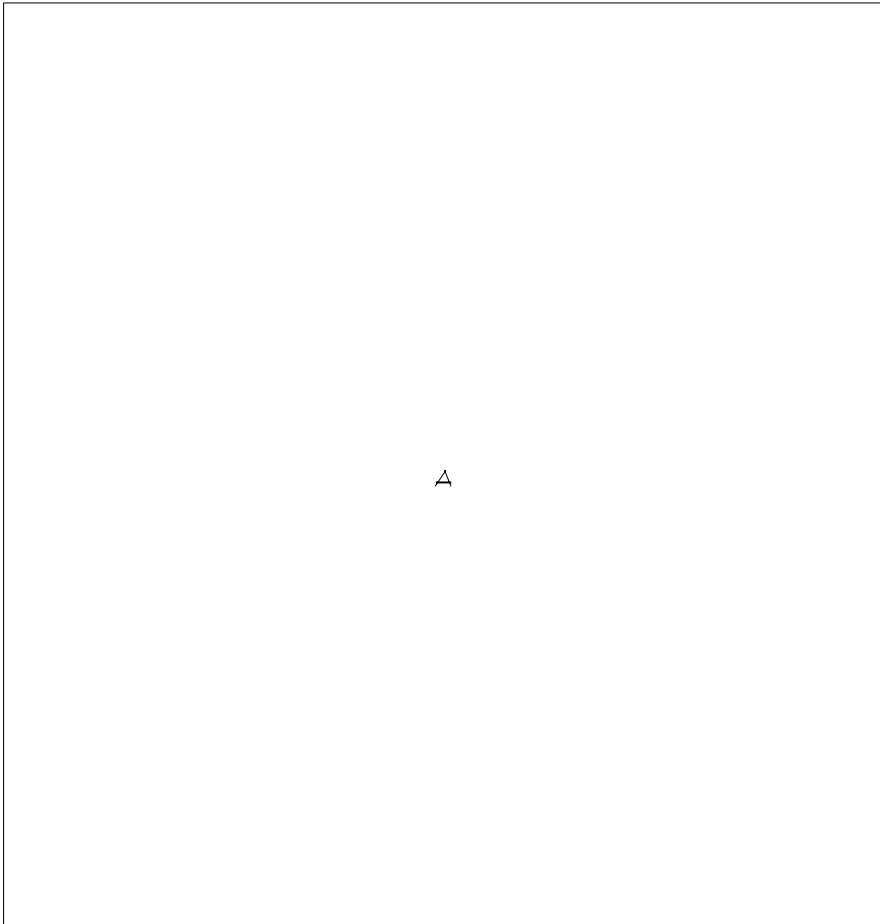
# Roof ID

**Building:** EB078 - Salt and Sand Storage - ()

**Total Area:** 5,110 sf

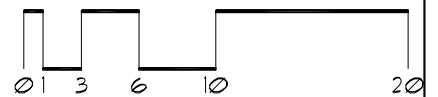
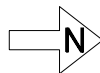
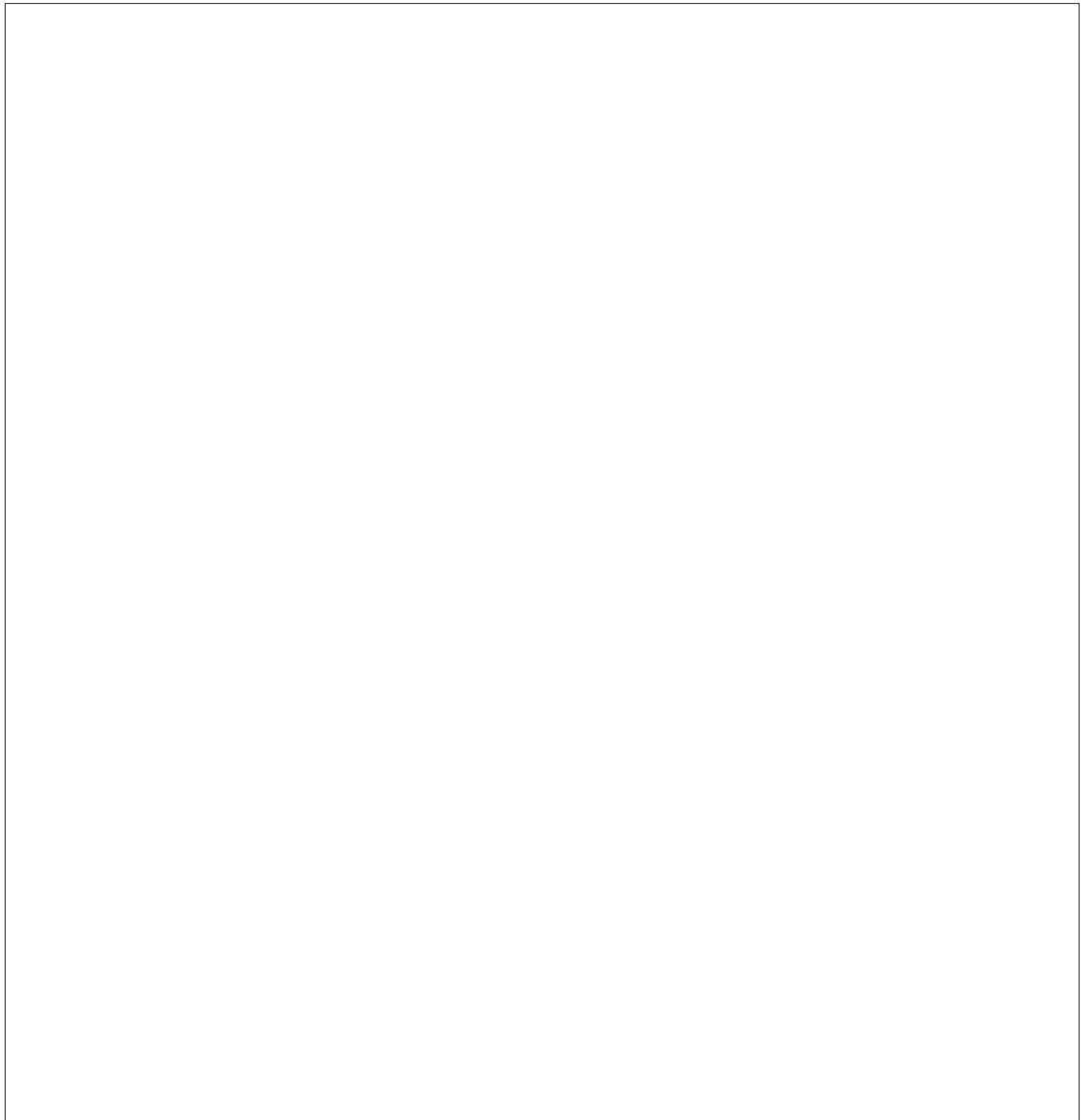
A 5,110

SYMBOLS KEY





# Roof Corrective Action

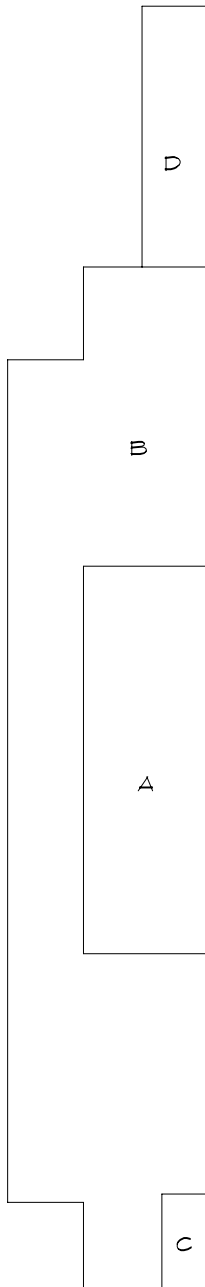


# Roof ID

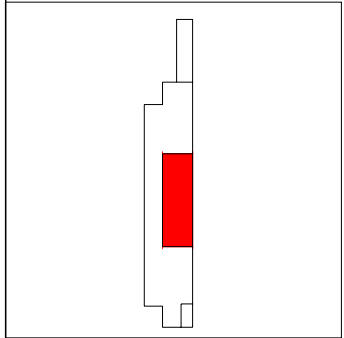
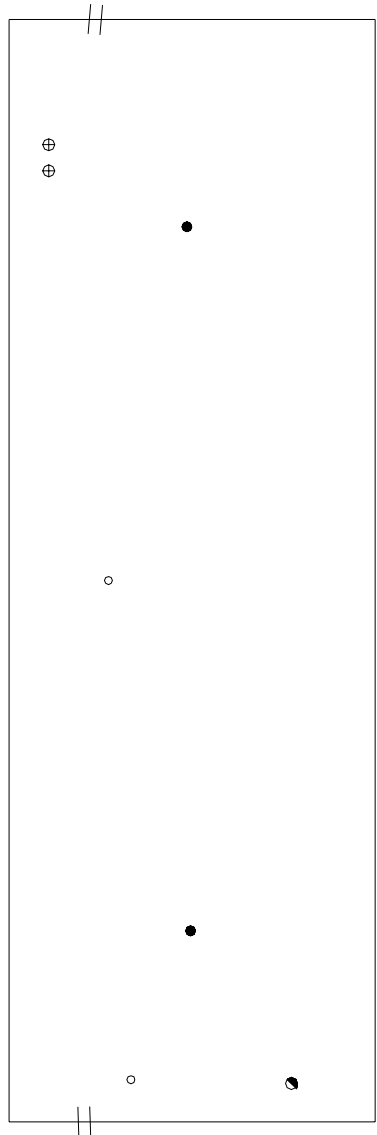
**Building:** EB103 - Transportation Safety - ()

**Total Area:** 11,852 sf

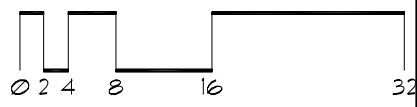
<b>A</b>	<b>2,806</b>
<b>B</b>	<b>7,793</b>
<b>C</b>	<b>261</b>
<b>D</b>	<b>992</b>



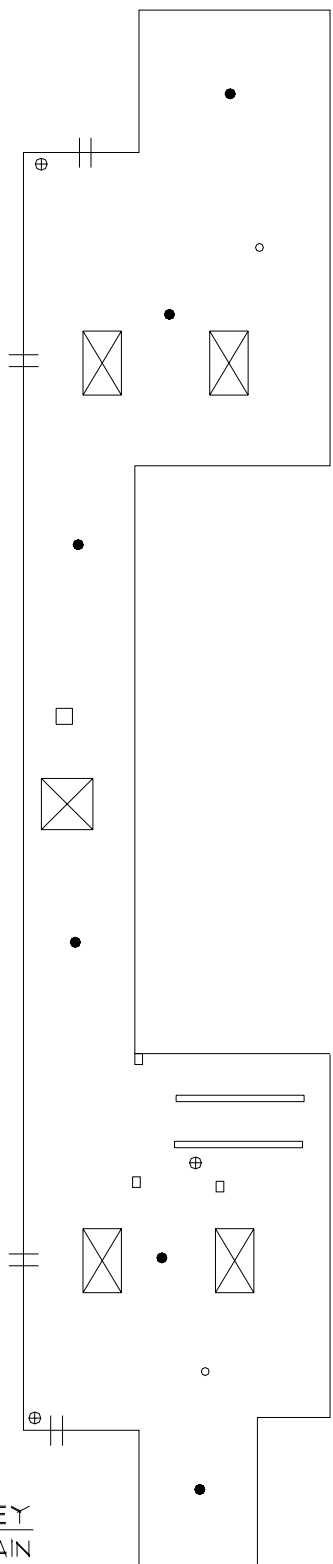
# Roof Corrective Action



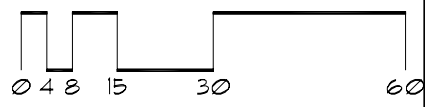
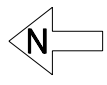
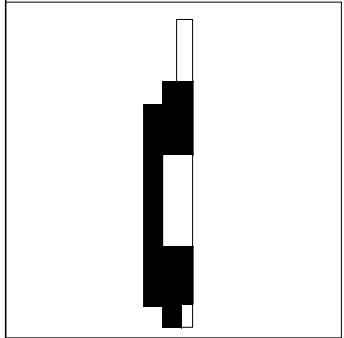
- SYMBOLS KEY**
- ROOF DRAIN
  - ⊕ SCUPPER
  - ⊕ FLASHED PENETRATION
  - HEAT STACK
  - VENT STACK
  - Ⓢ DEFECT-REPAIR



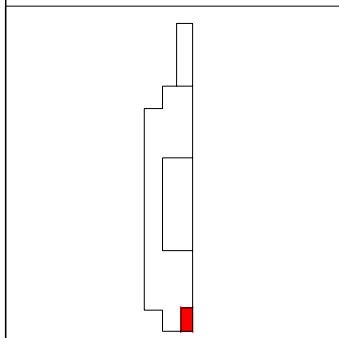
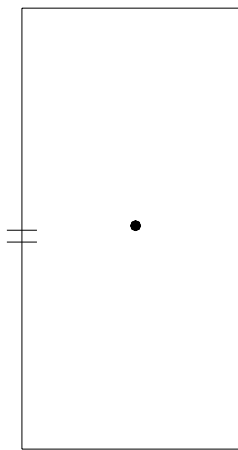
# Roof Corrective Action



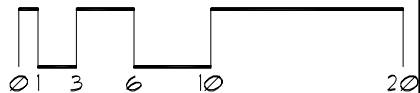
- SYMBOLS KEY**
- ROOF DRAIN
  - ROOF CURB
  - ⊠ SKYLIGHT
  - VENT STACK
  - ⊕ FLASHED PENETRATION
  - || SCUPPER
  - Ⓢ DEFECT-REPAIR



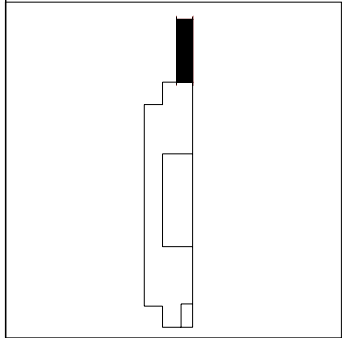
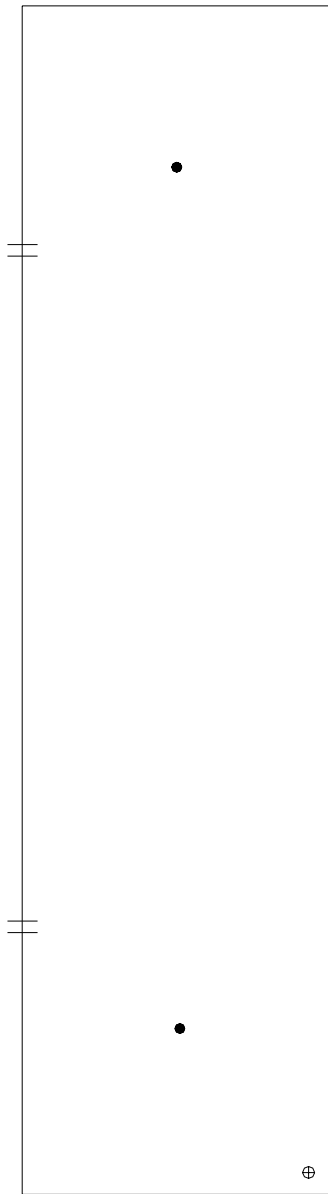
# Roof Corrective Action



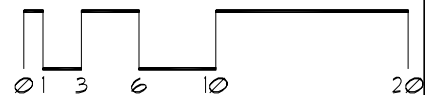
- SYMBOLS KEY
- ROOF DRAIN
  - ≡ SCUPPER
  - Ⓜ DEFECT-REPAIR



# Roof Corrective Action



- SYMBOLS KEY**
- ROOF DRAIN
  - ≡ SCUPPER
  - Ⓢ DEFECT-REPAIR



# Roof ID

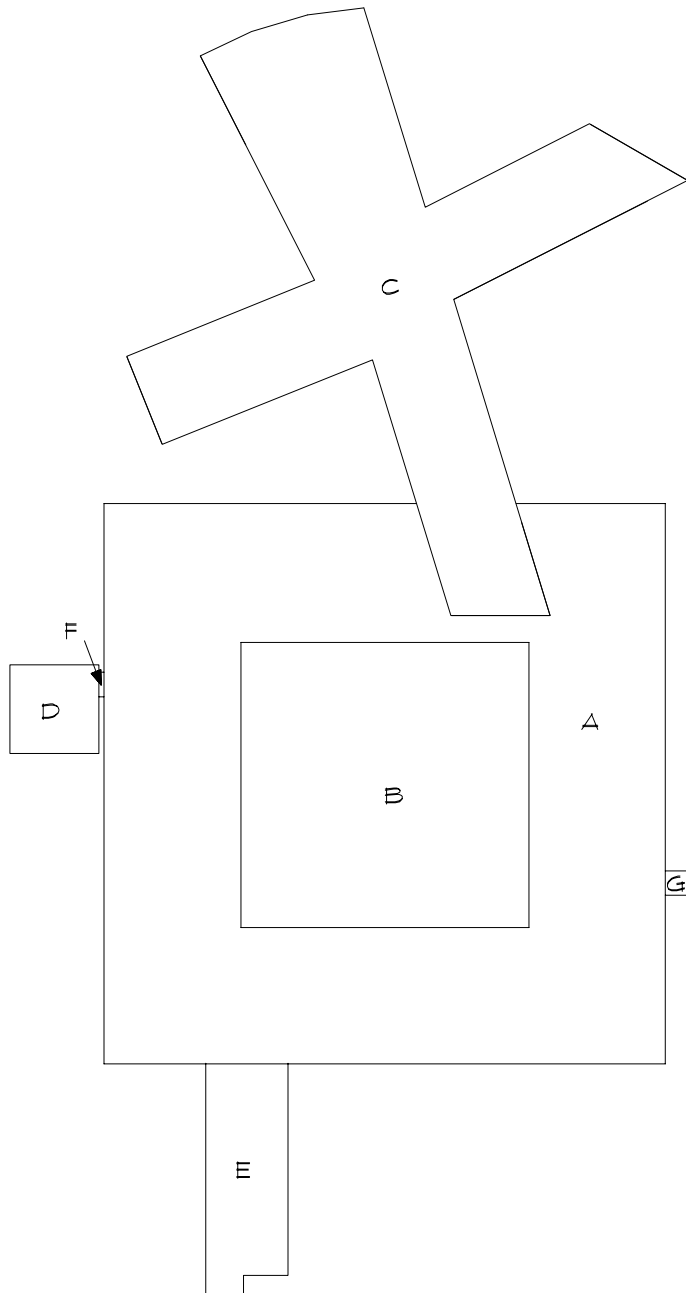
**Building:** EB112 - Rapson Hall - (89 Church Street Se, Mpls)

**Roof Access:** Northeast roof hatch: use stairwell

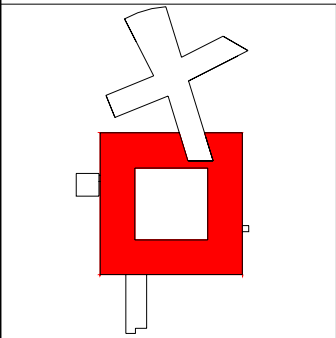
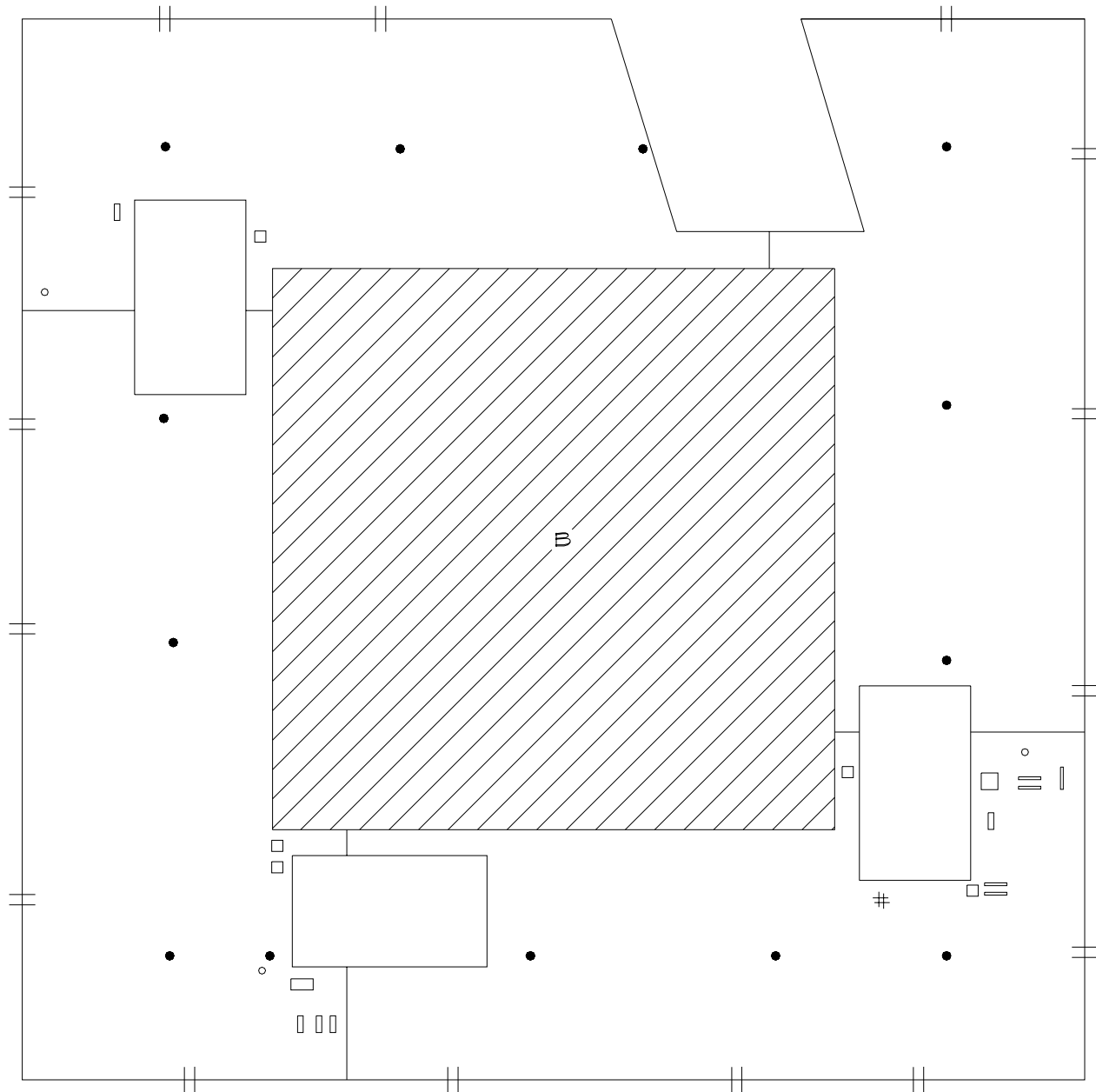
**Total Area:** 53,360 sf

<u>A</u>	<u>25,000</u>	<u>E</u>	<u>4,050</u>
<u>B</u>	<u>9,620</u>	<u>F</u>	<u>15</u>
<u>C</u>	<u>13,675</u>	<u>G</u>	<u>70</u>
<u>D</u>	<u>930</u>		

SYMBOLS KEY

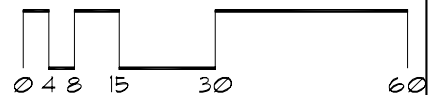


# Roof Corrective Action



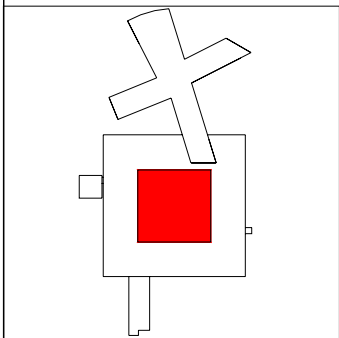
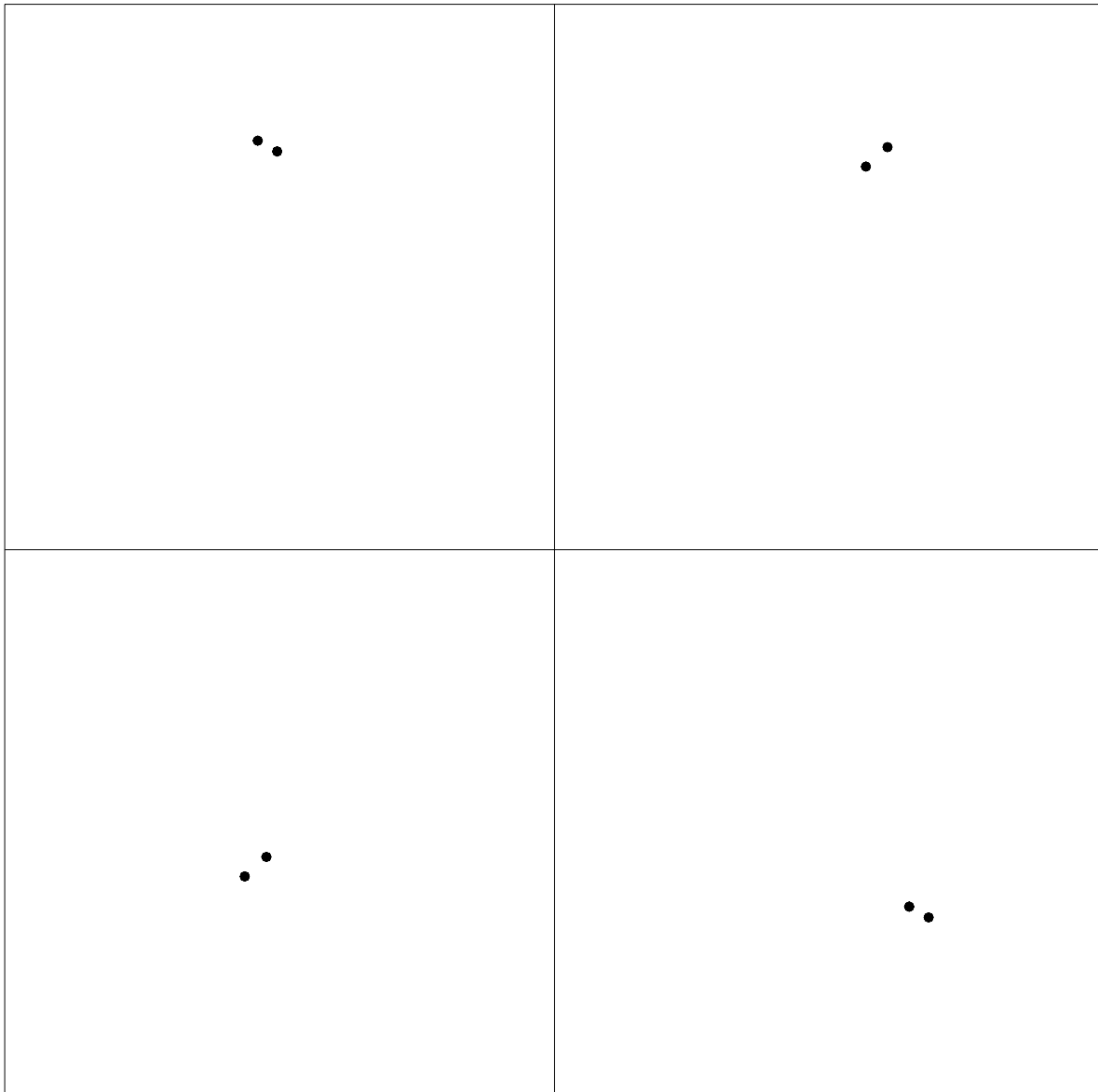
## SYMBOLS KEY

- ROOF CURB OR VENT
- ROOF DRAIN
- VENT STACK
- ⊥ SCUPPER
- # PITCH PAN
- ⓧ DEFECT-REPAIR

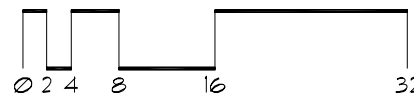




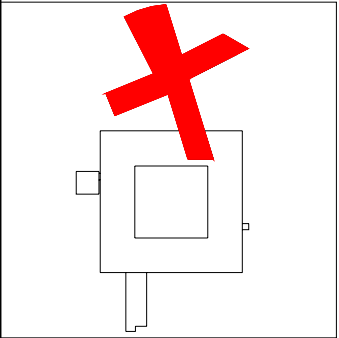
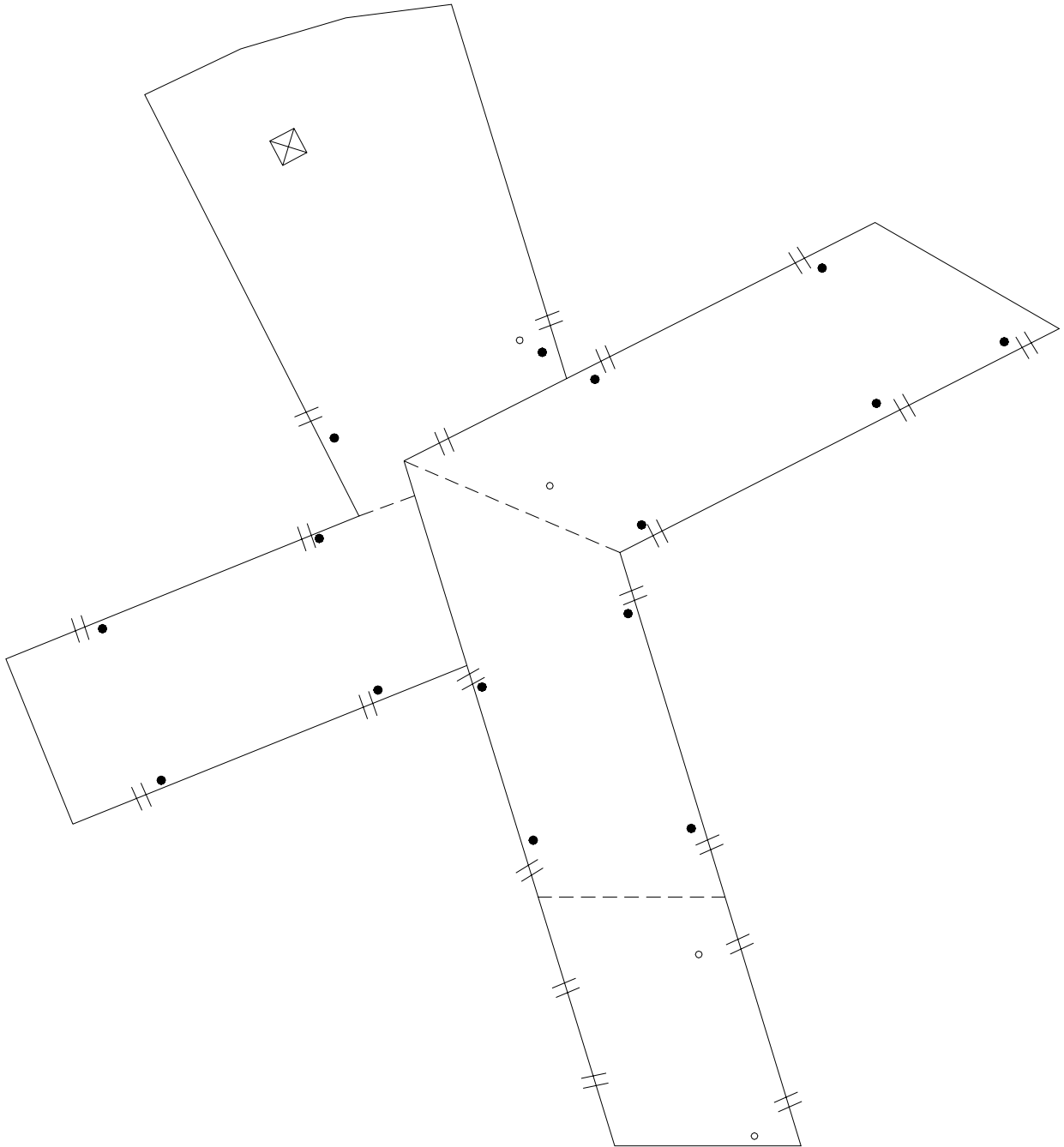
# Roof Corrective Action



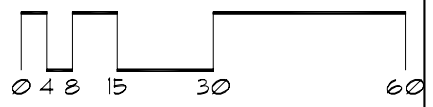
SYMBOLS KEY  
● ROOF DRAIN  
Ⓢ DEFECT-REPAIR



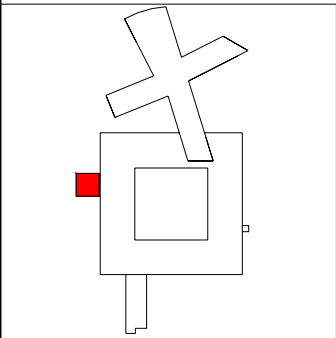
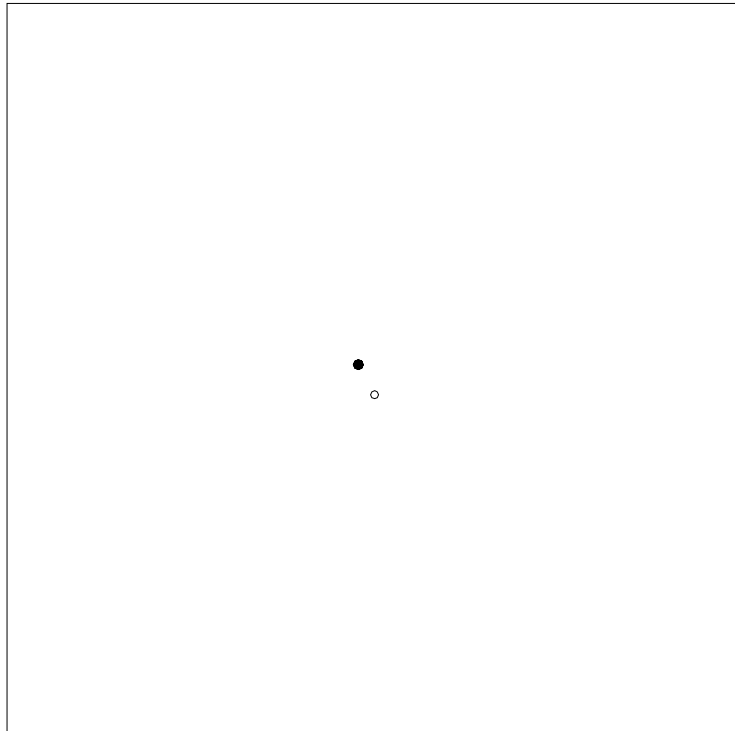
# Roof Corrective Action



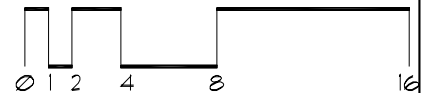
- SYMBOLS KEY**
- ROOF DRAIN
  - ⊠ SKYLIGHT
  - || SCUPPER
  - VENT STACK
  - ① DEFECT-REPAIR



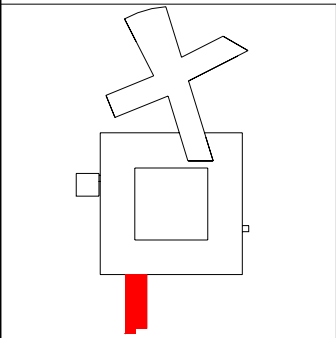
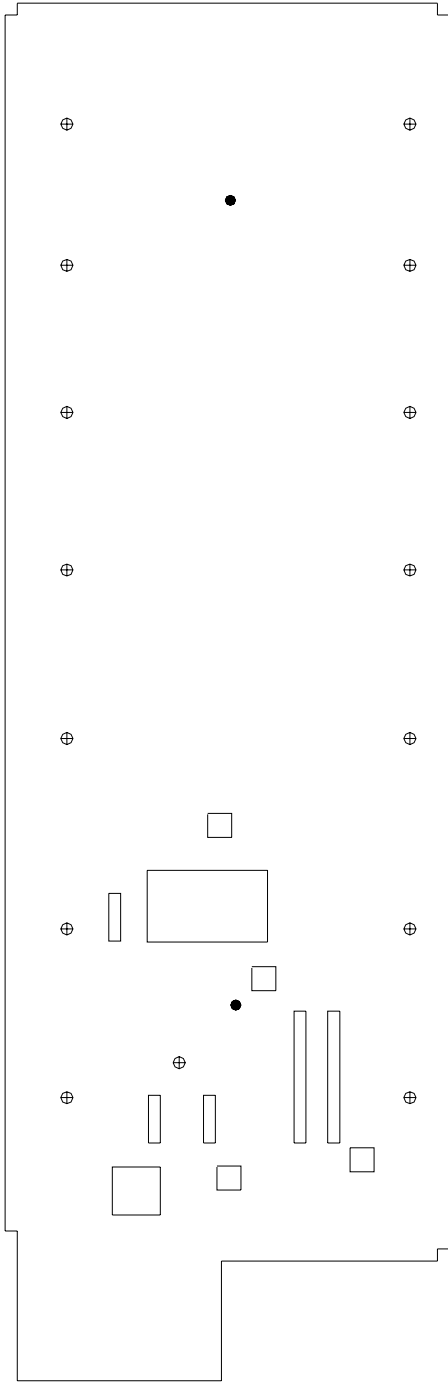
# Roof Corrective Action



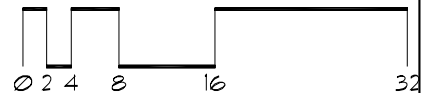
- SYMBOLS KEY**
- ROOF DRAIN
  - VENT STACK
  - ⊖ DEFECT-REPAIR



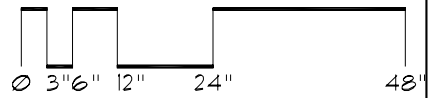
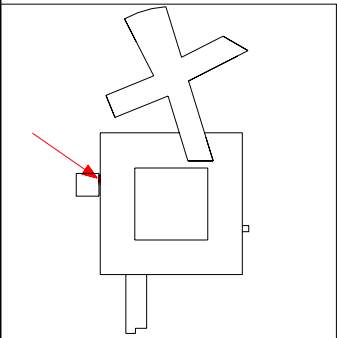
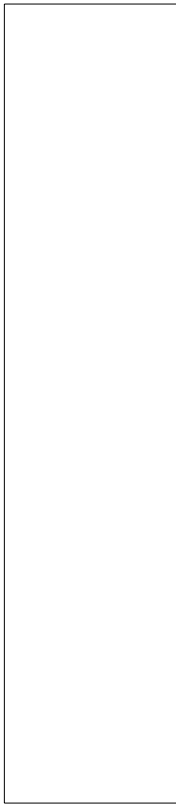
# Roof Corrective Action



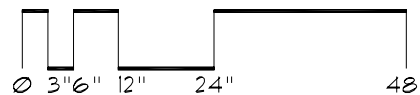
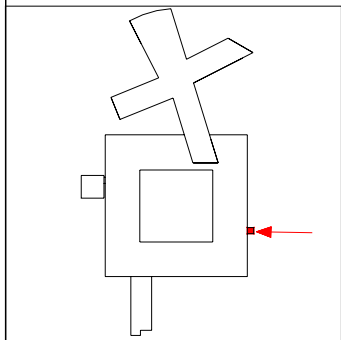
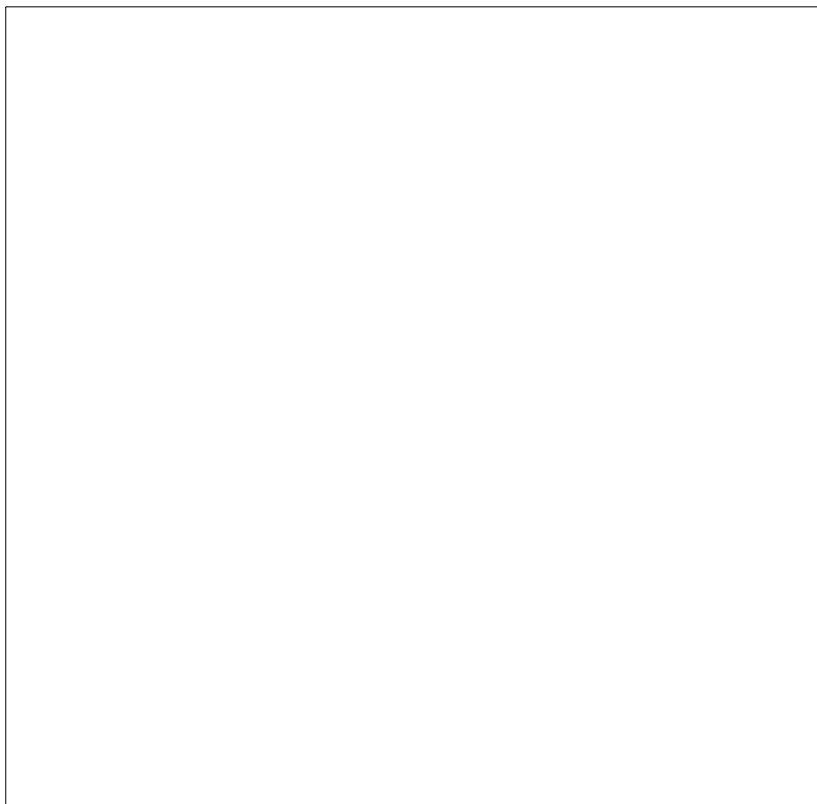
- SYMBOLS KEY**
- ROOF CURB OR VENT
  - ROOF DRAIN
  - ⊕ FLASHED PEN.



# Roof Corrective Action



# Roof Corrective Action



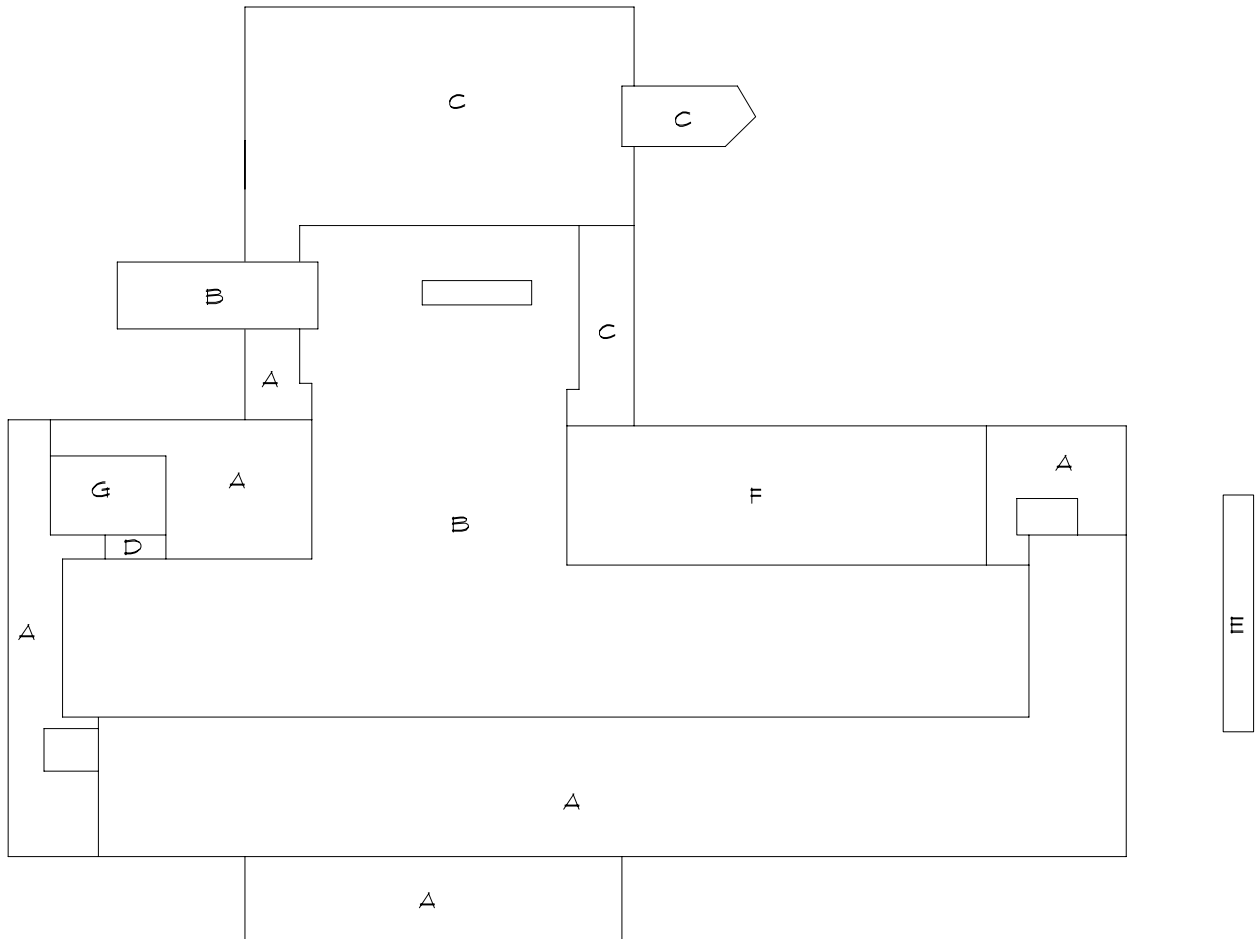
# Roof ID

**Building:** EB122 - Kolthoff Hall - (225 Pleasant Ave Se, Mpls)

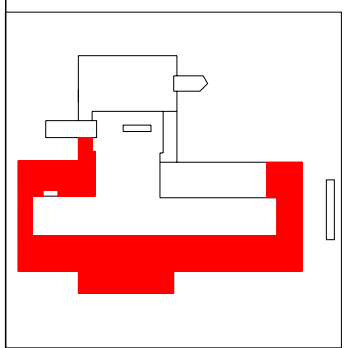
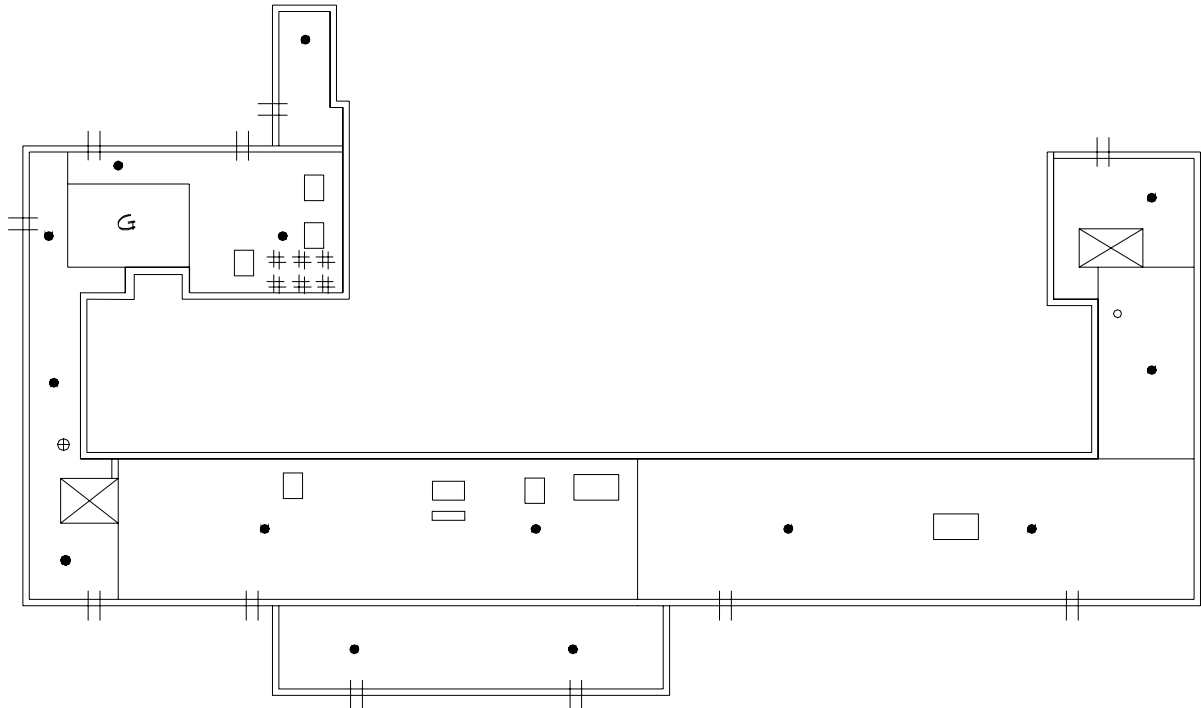
**Roof Access:** Elevator to top floor, through door next to men's room, then 1st door on left. Sect A- East through mechanical room, turn left under section F, in northwest corner of section C.

**Total Area:** 19,013 sf

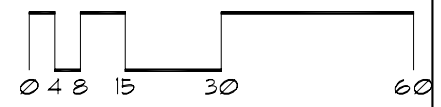
<u>A</u>	<u>7,341</u>	<u>E</u>	<u>195</u>
<u>B</u>	<u>6,589</u>	<u>F</u>	<u>1,334</u>
<u>C</u>	<u>3,267</u>	<u>G</u>	<u>247</u>
<u>D</u>	<u>40</u>		



# Roof Corrective Action

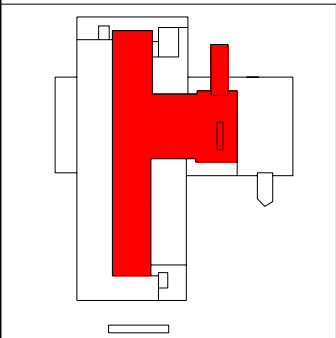
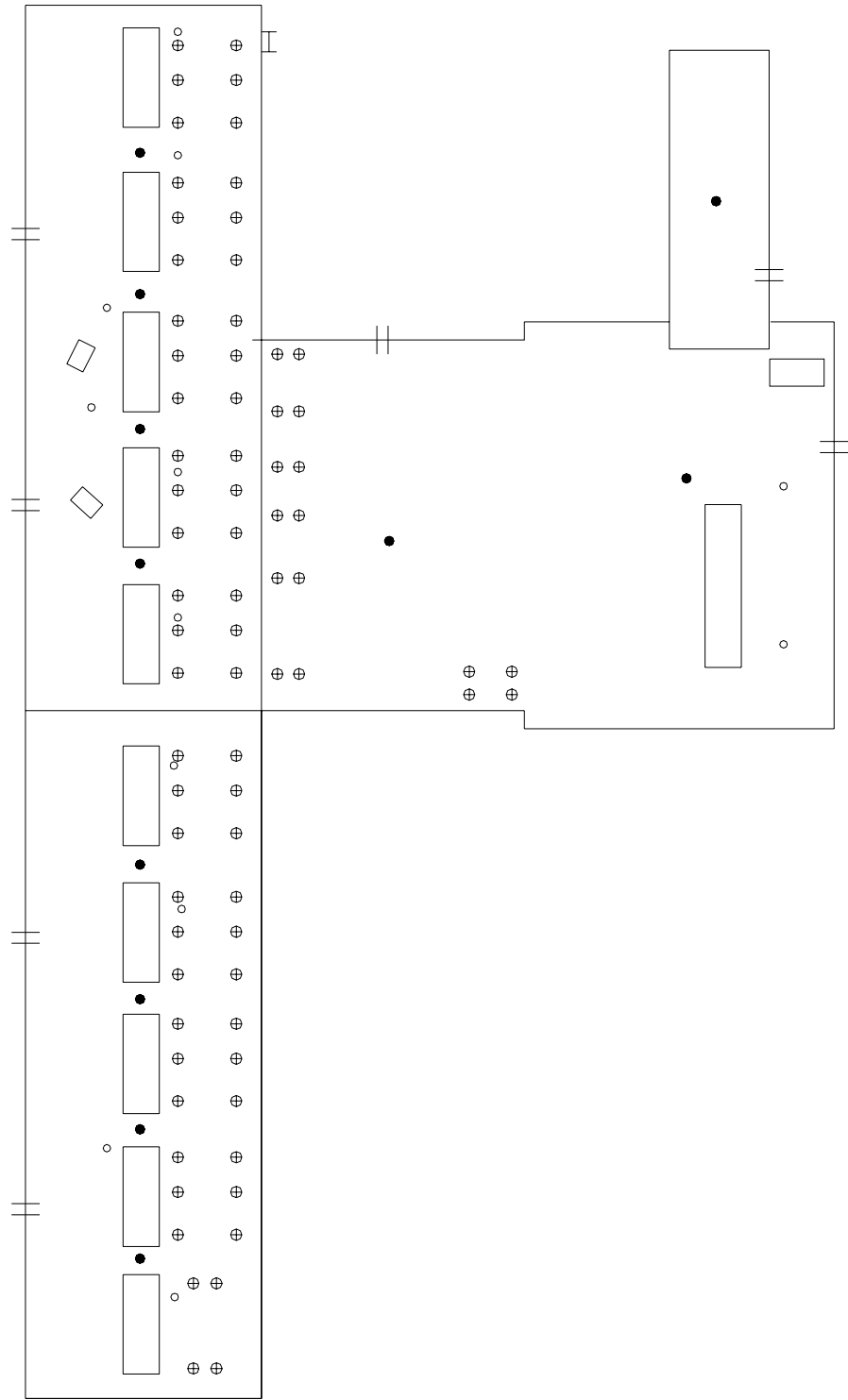


- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - || SCUPPER
  - ⊠ SKYLIGHT
  - # PITCH PAN



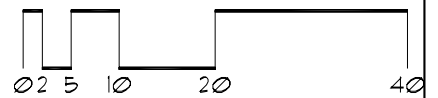


# Roof Corrective Action

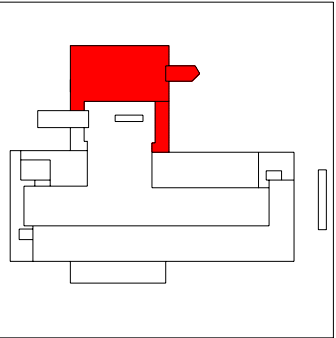
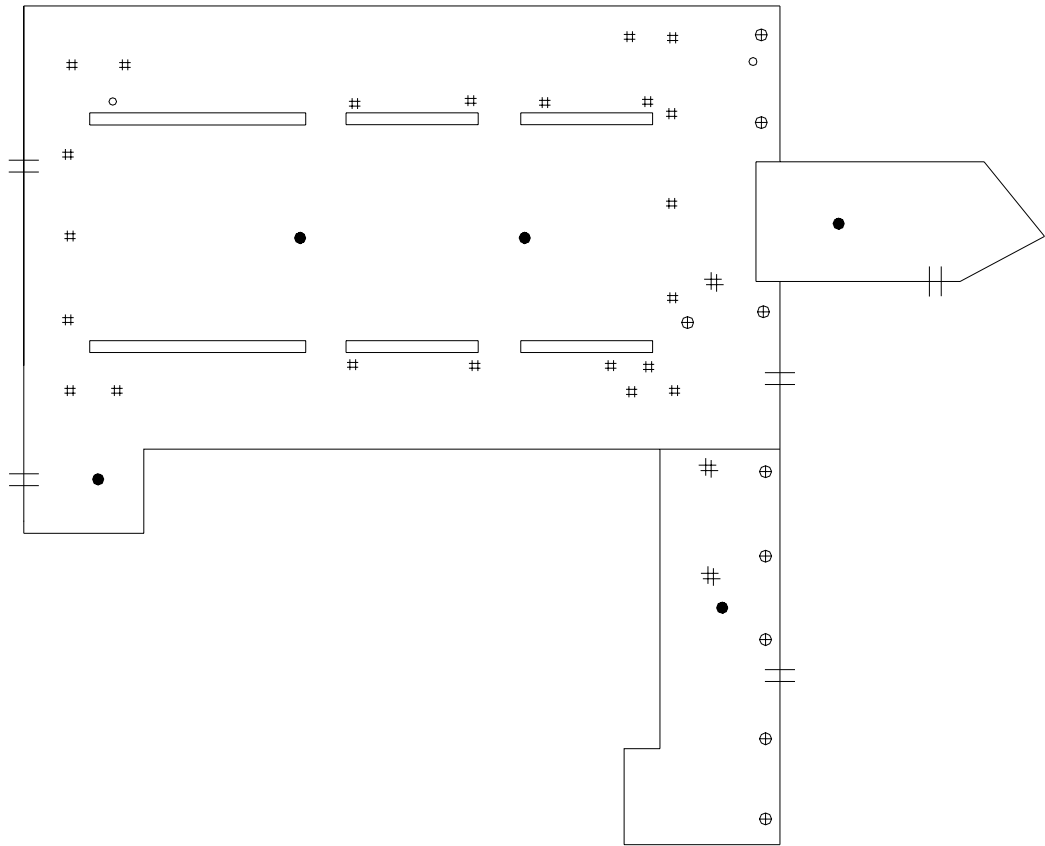


## SYMBOLS KEY

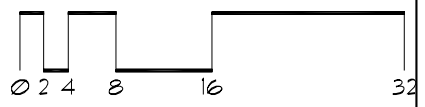
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- † SCUPPER
- ⊕ FLASHED PENETRATION



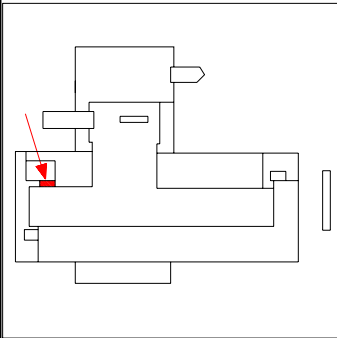
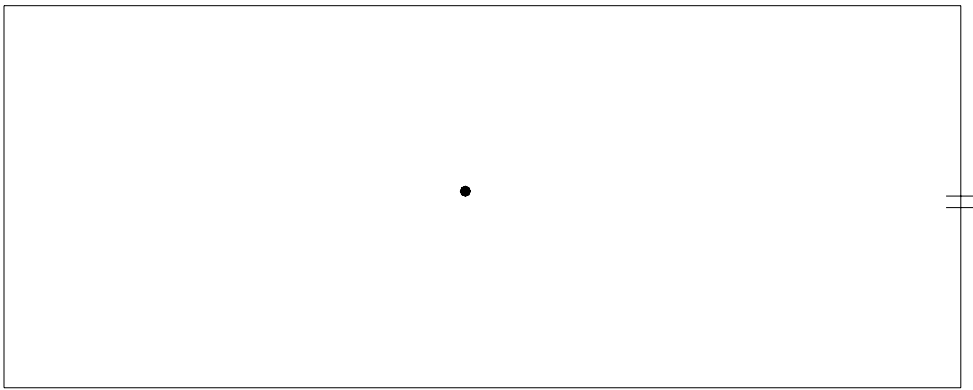
# Roof Corrective Action



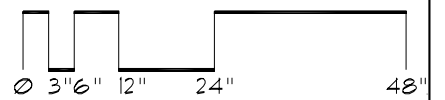
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - # PITCH PAN
  - ⊕ SCUPPER



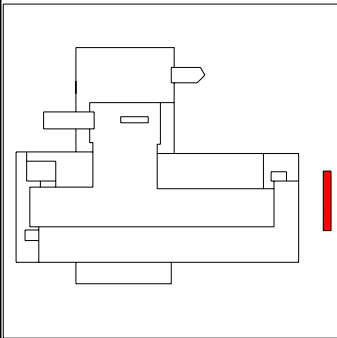
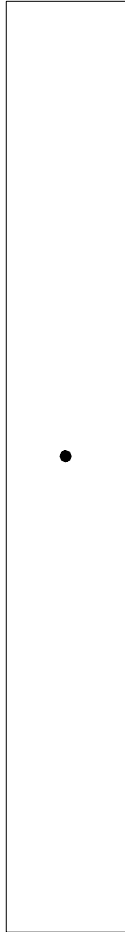
# Roof Corrective Action



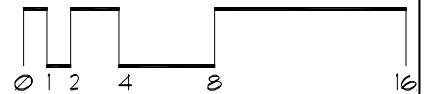
SYMBOLS KEY  
● ROOF DRAIN  
†† SCUPPER



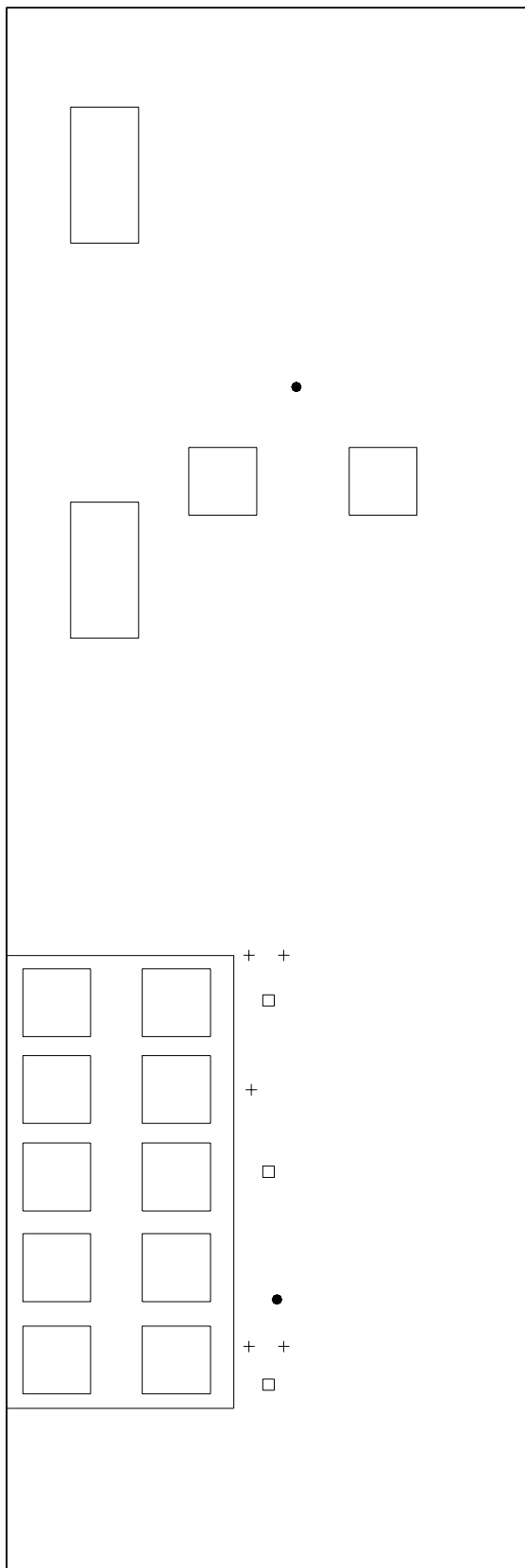
# Roof Corrective Action



SYMBOLS KEY  
● ROOF DRAIN  
① DEFECT-REPAIR

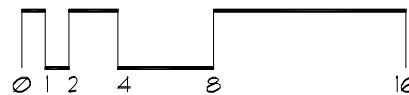
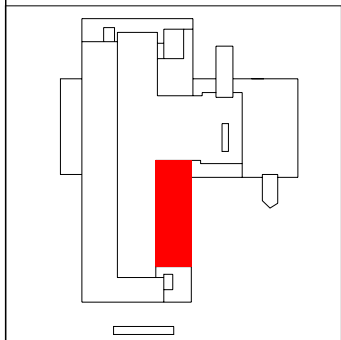


# Roof Corrective Action

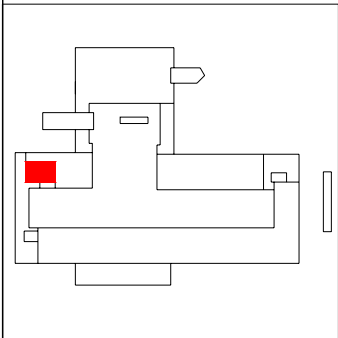
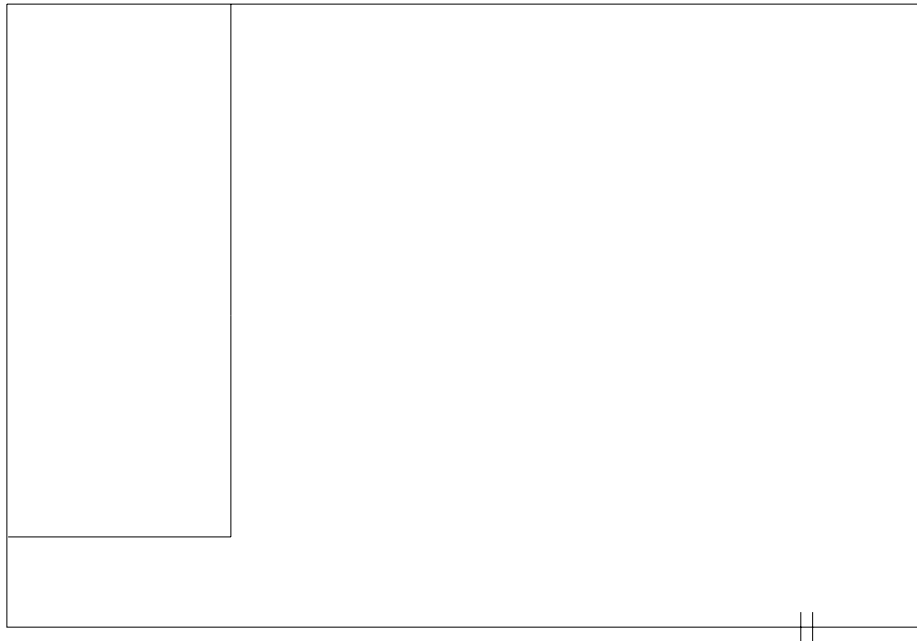


## SYMBOLS KEY

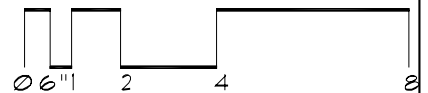
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- DEFECT-REPAIR
- + FLASHED PENETRATION



# Roof Corrective Action



- SYMBOLS KEY
- ROOF CURB
  - †† SCUPPER
  - ⊖ DEFECT-NO REPAIR



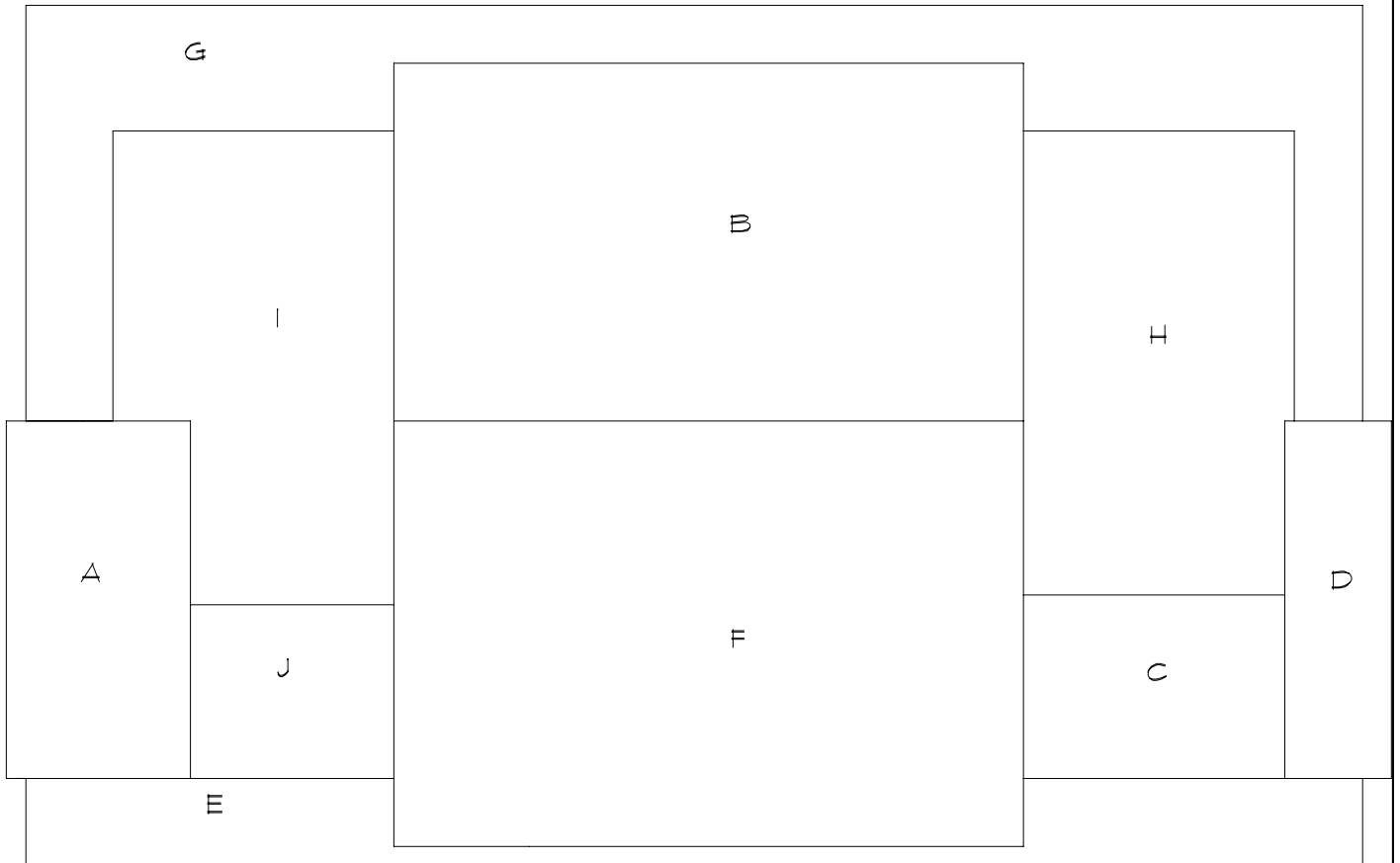
# Roof ID

**Building:** EB125 - Shepherds Lab - (100 Union Street SE Minneapolis)

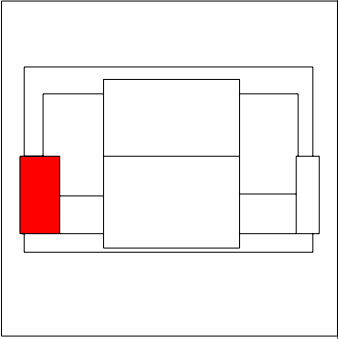
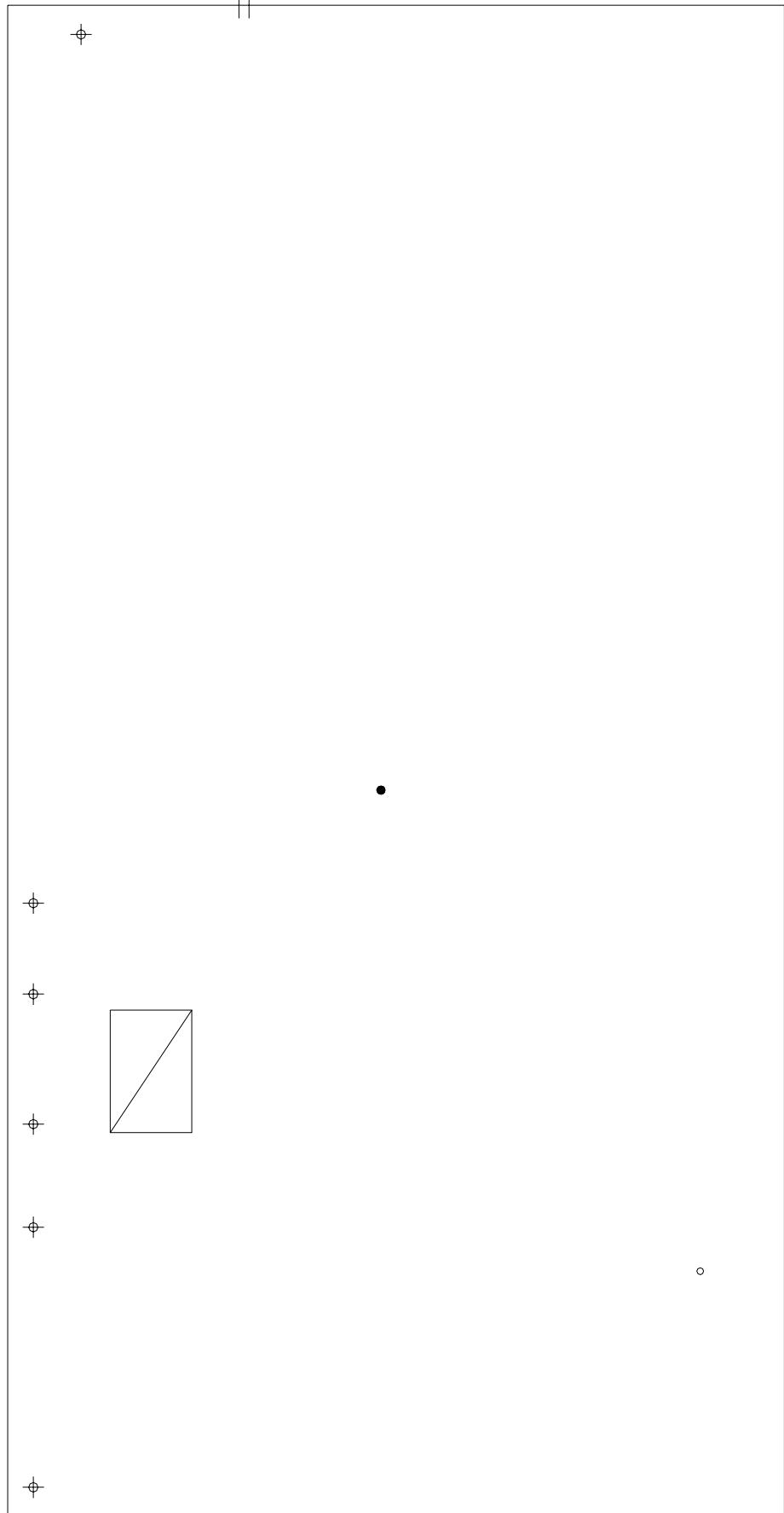
**Roof Access:** East and West stairwells to 6th floor

**Total Area:** 12,521 sf

<u>A</u>	<u>703</u>	<u>E</u>	<u>787</u>	<u>I</u>	<u>1,269</u>
<u>B</u>	<u>2,405</u>	<u>F</u>	<u>2,860</u>	<u>J</u>	<u>378</u>
<u>C</u>	<u>567</u>	<u>G</u>	<u>1,819</u>		
<u>D</u>	<u>407</u>	<u>H</u>	<u>1,326</u>		

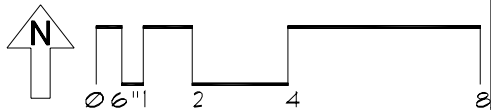


# Roof Corrective Action



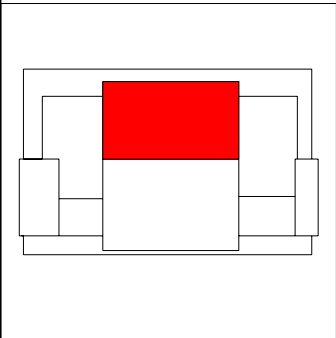
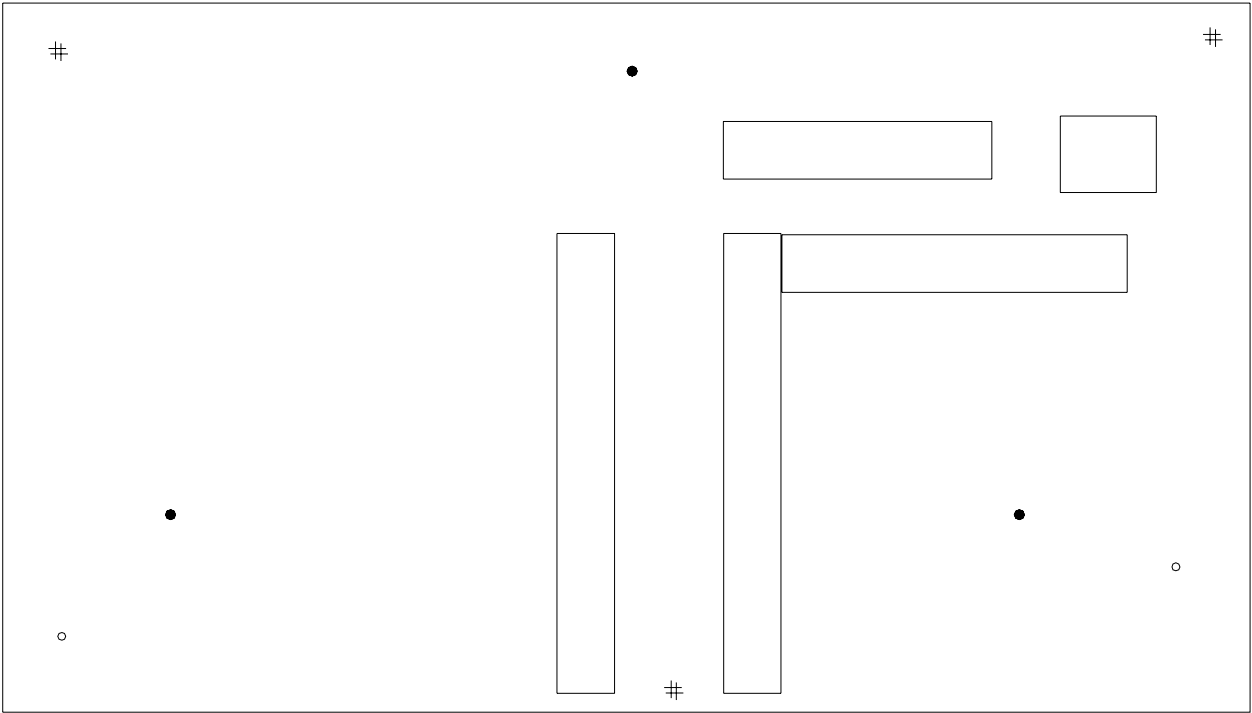
## SYMBOLS KEY

- ROOF DRAIN
- VENT STACK
- ⊕ FLASHED PENETRATION
- ▣ ROOF HATCH



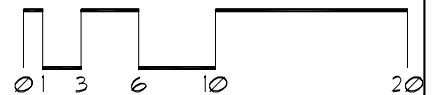


# Roof Corrective Action

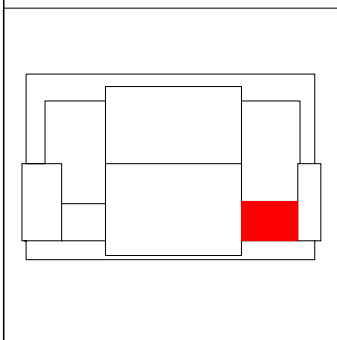
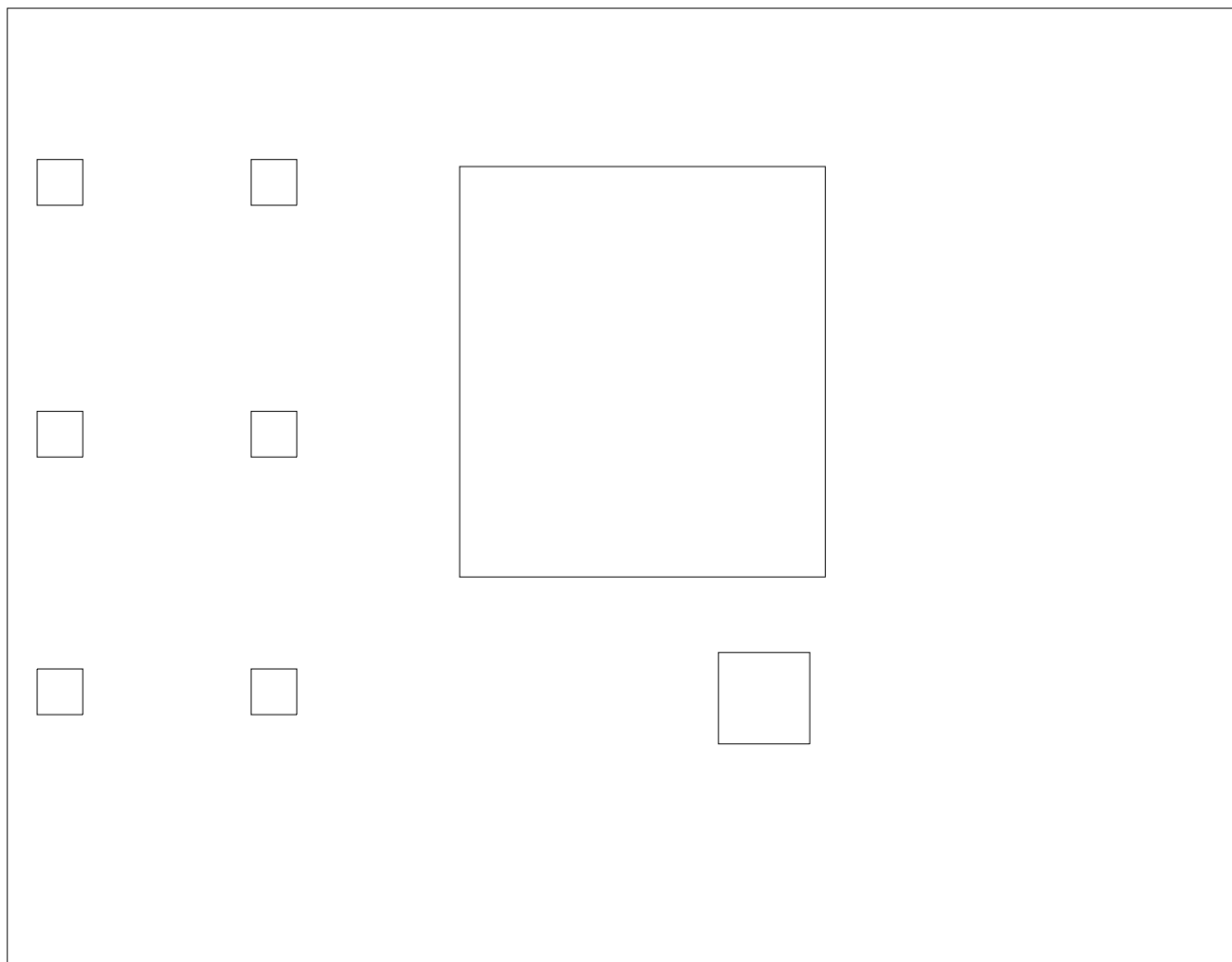


### SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- # PITCH PAN
- Ⓢ DEFECT-REPAIR

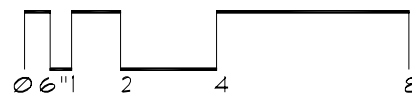


# Roof Corrective Action

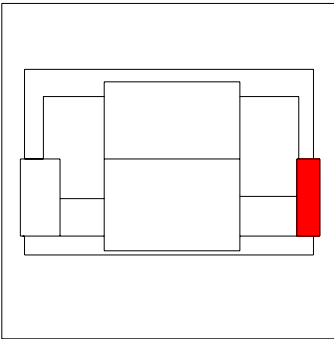
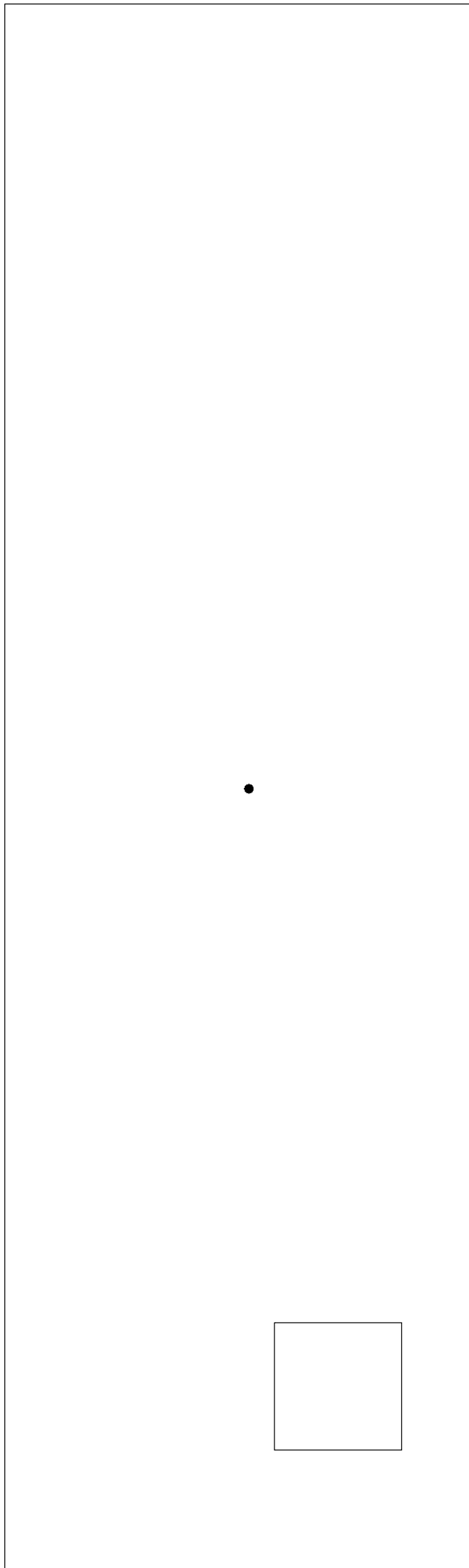


## SYMBOLS KEY

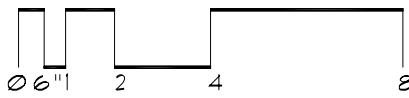
- ROOF CURB
- Ⓢ DEFECT-REPAIR



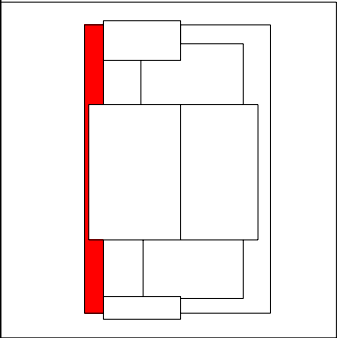
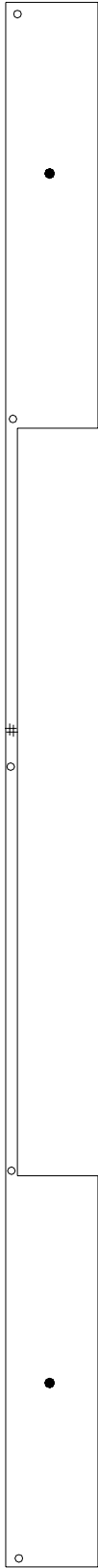
# Roof Corrective Action



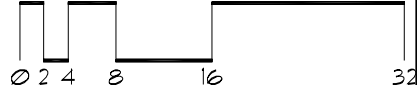
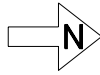
SYMBOLS KEY  
□ ROOF CURB  
● ROOF DRAIN



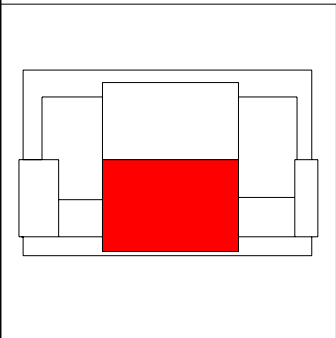
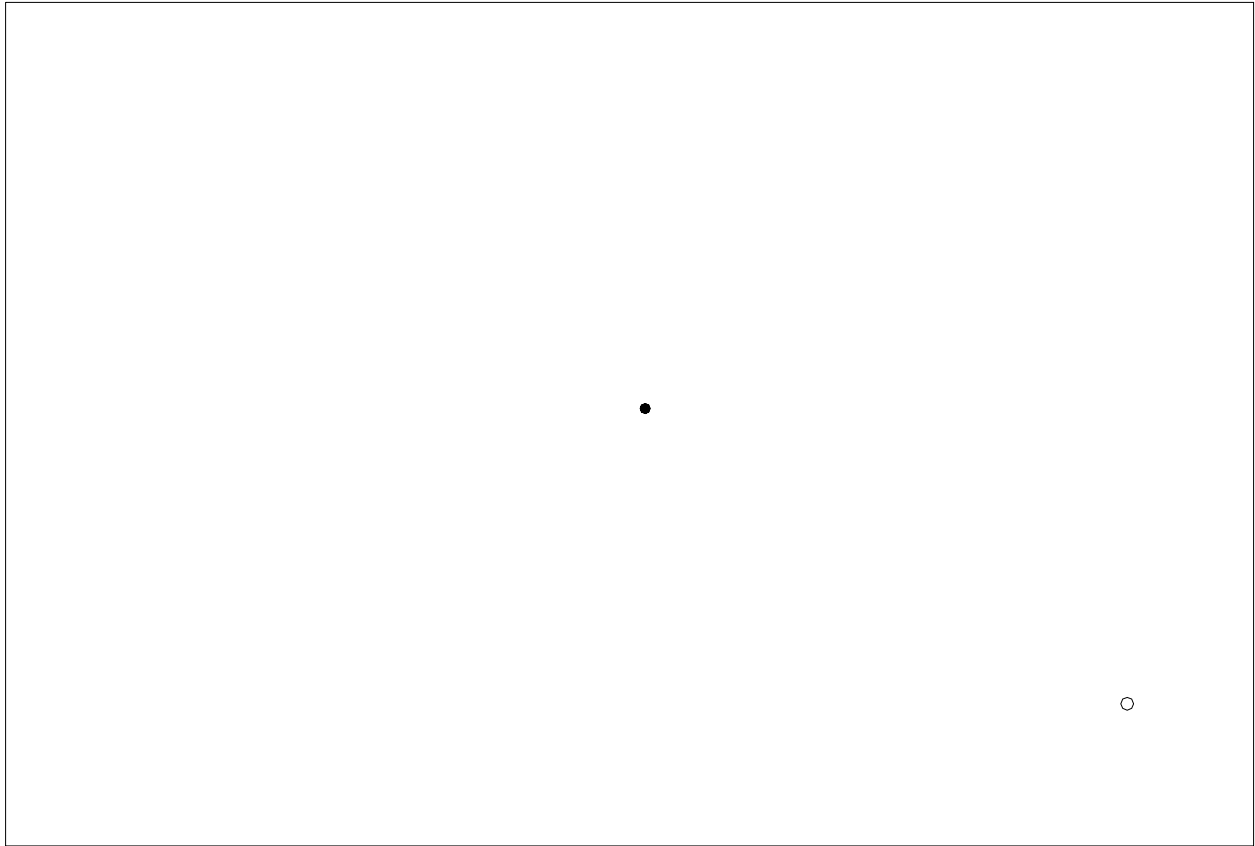
# Roof Corrective Action



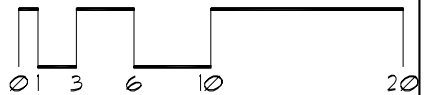
SYMBOLS KEY  
● ROOF DRAIN  
○ VENT STACK  
# PITCH PAN



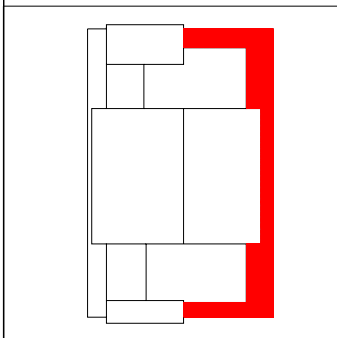
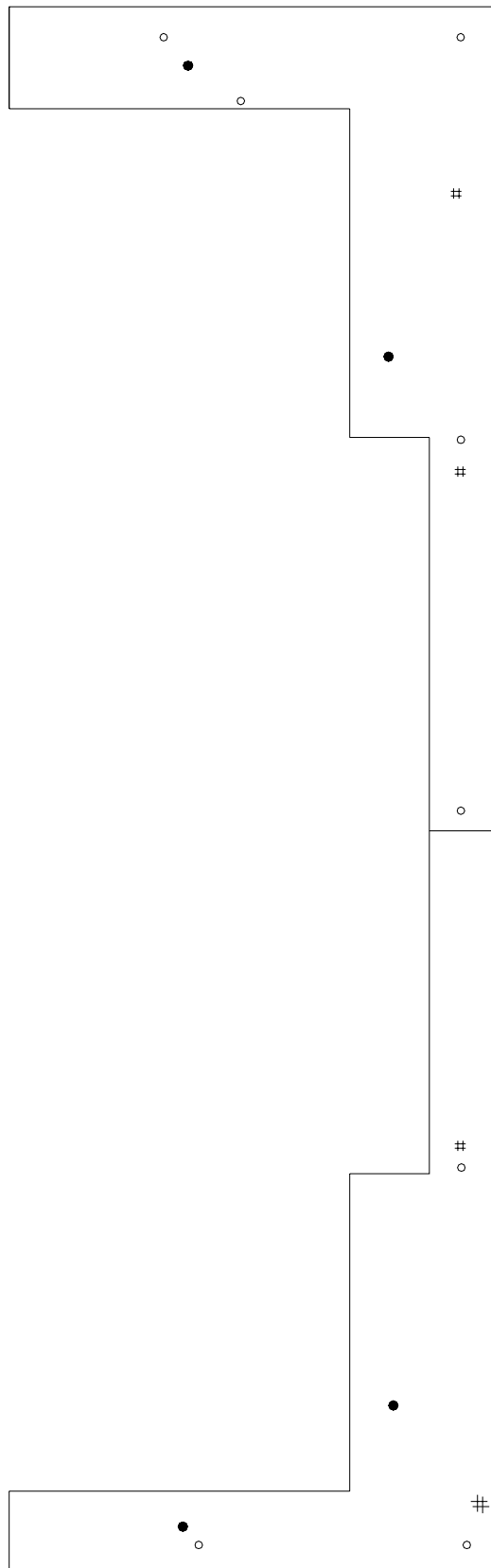
# Roof Corrective Action



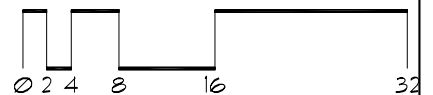
SYMBOLS KEY  
● ROOF DRAIN  
○ VENT STACK



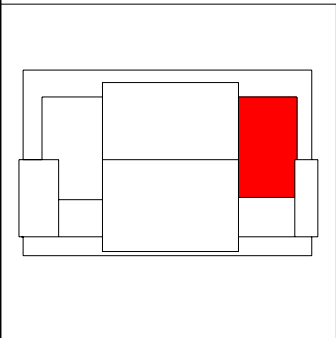
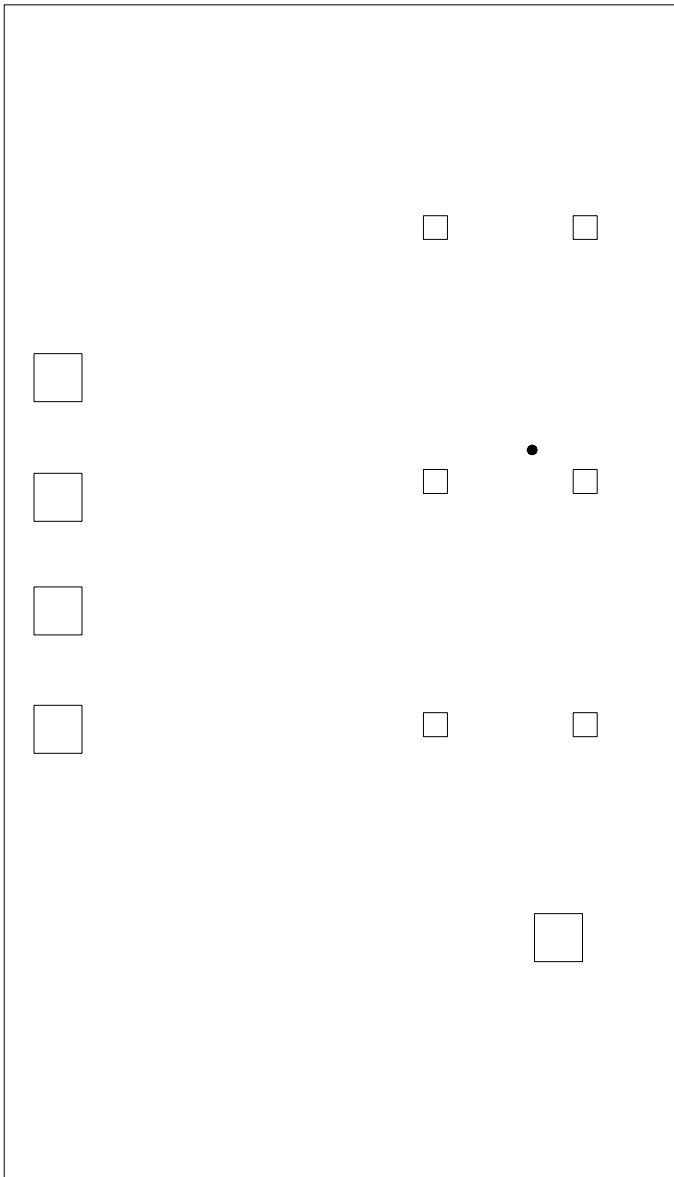
# Roof Corrective Action



SYMBOLS KEY	
●	ROOF DRAIN
○	VENT STACK
#	PITCH PAN
①	DEFECT-NO REPAIR

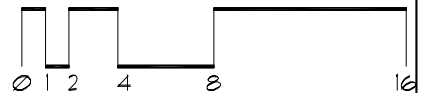


# Roof Corrective Action

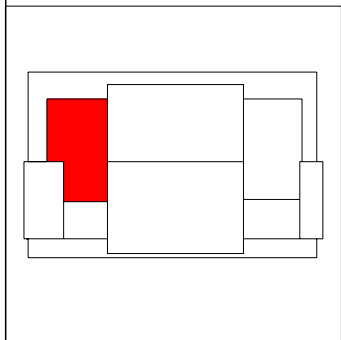
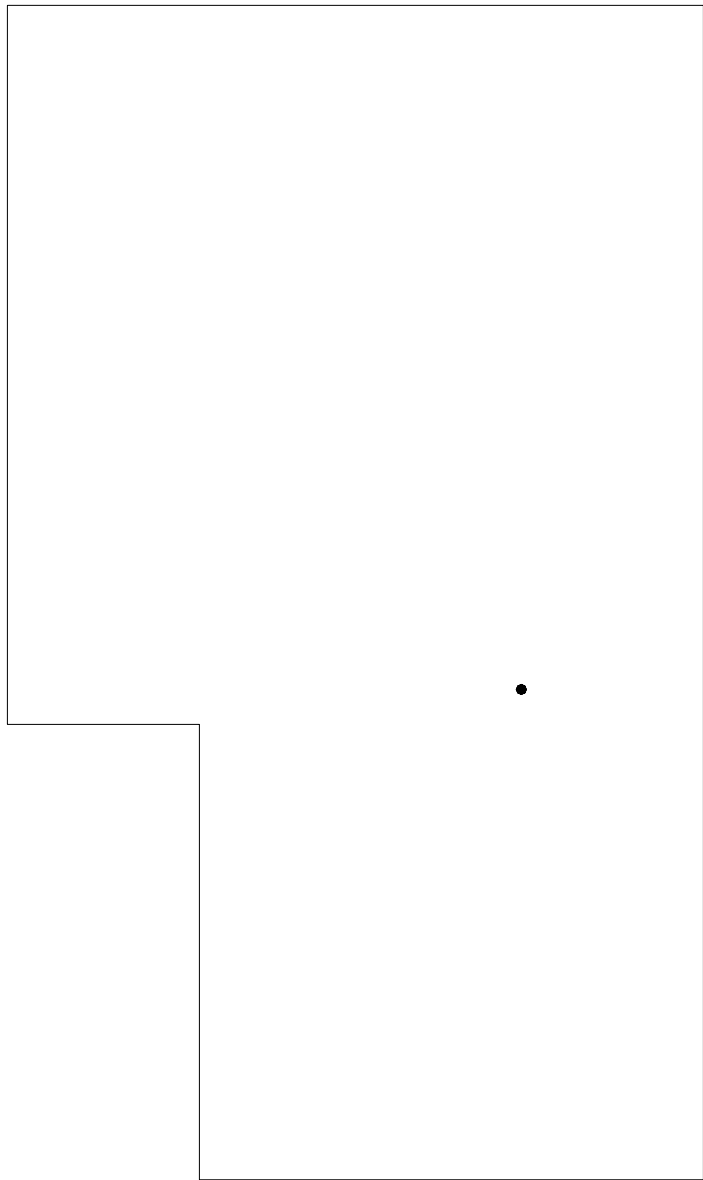


## SYMBOLS KEY

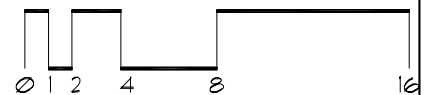
- ROOF CURB
- ROOF DRAIN
- Ⓢ DEFECT-REPAIR



# Roof Corrective Action

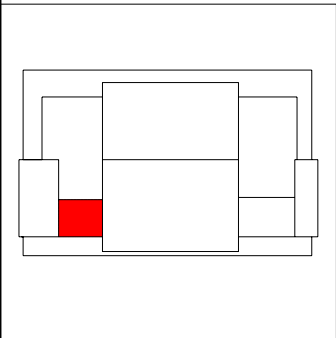
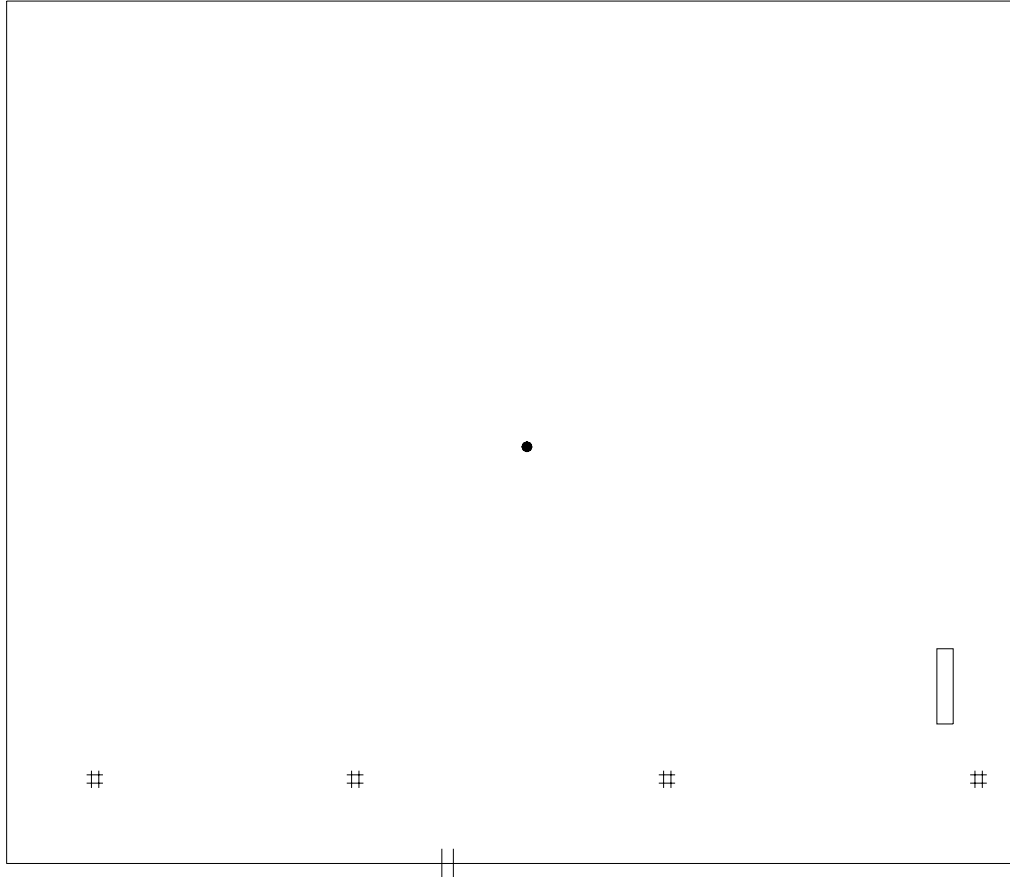


**SYMBOLS KEY**  
● ROOF DRAIN  
① DEFECT-NO REPAIR

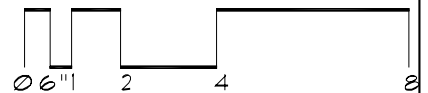




# Roof Corrective Action



SYMBOLS KEY	
•	ROOF DRAIN
#	PITCH PAN
□	ROOF CURB
⊕	SCUPPER



# Roof ID

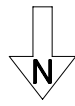
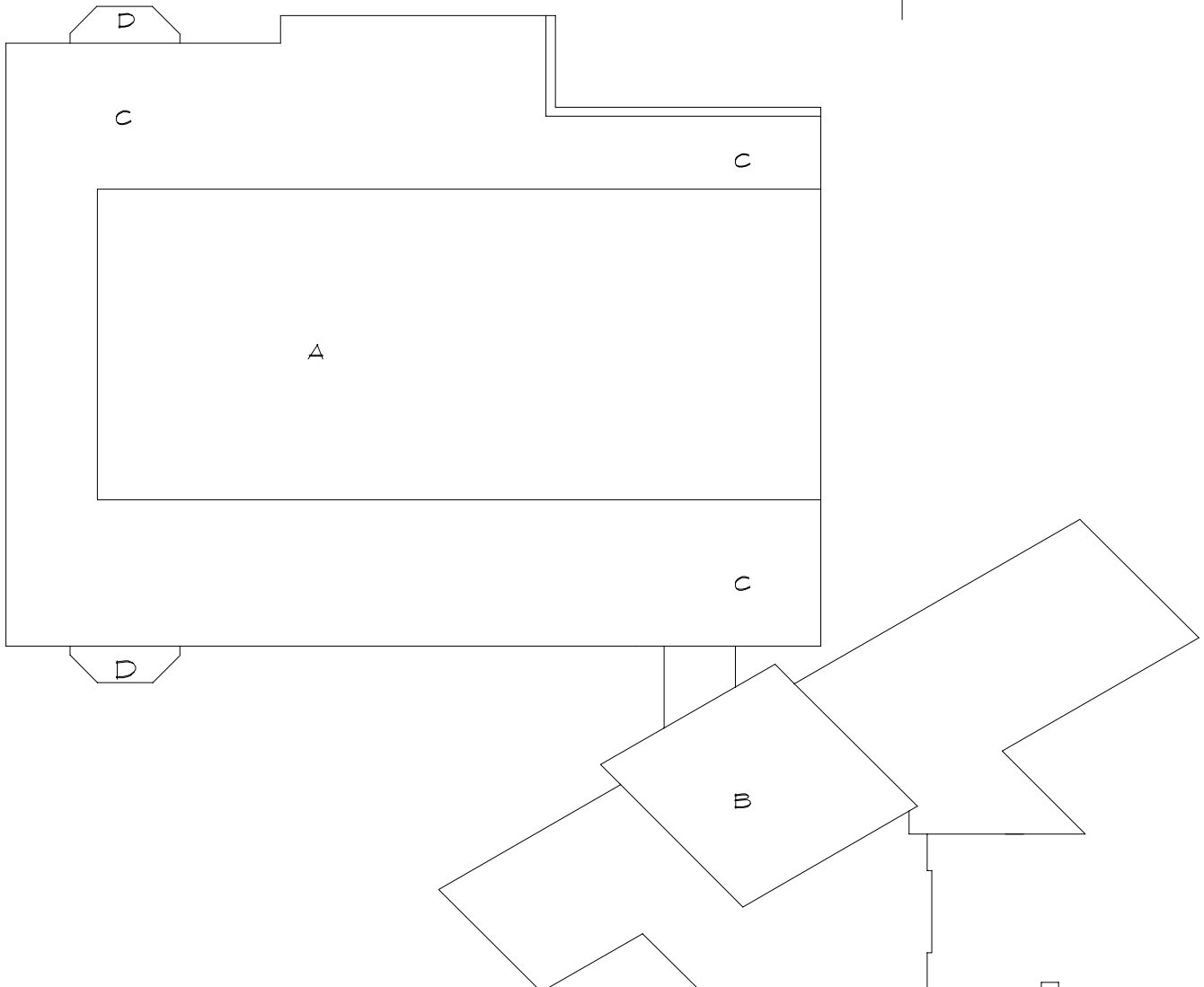
**Building:** EB127 - 1425 University - (1425 University Ave., Mpls)

**Roof Access:** Ladder

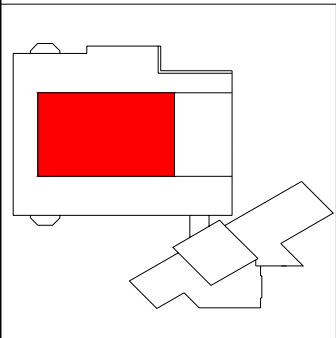
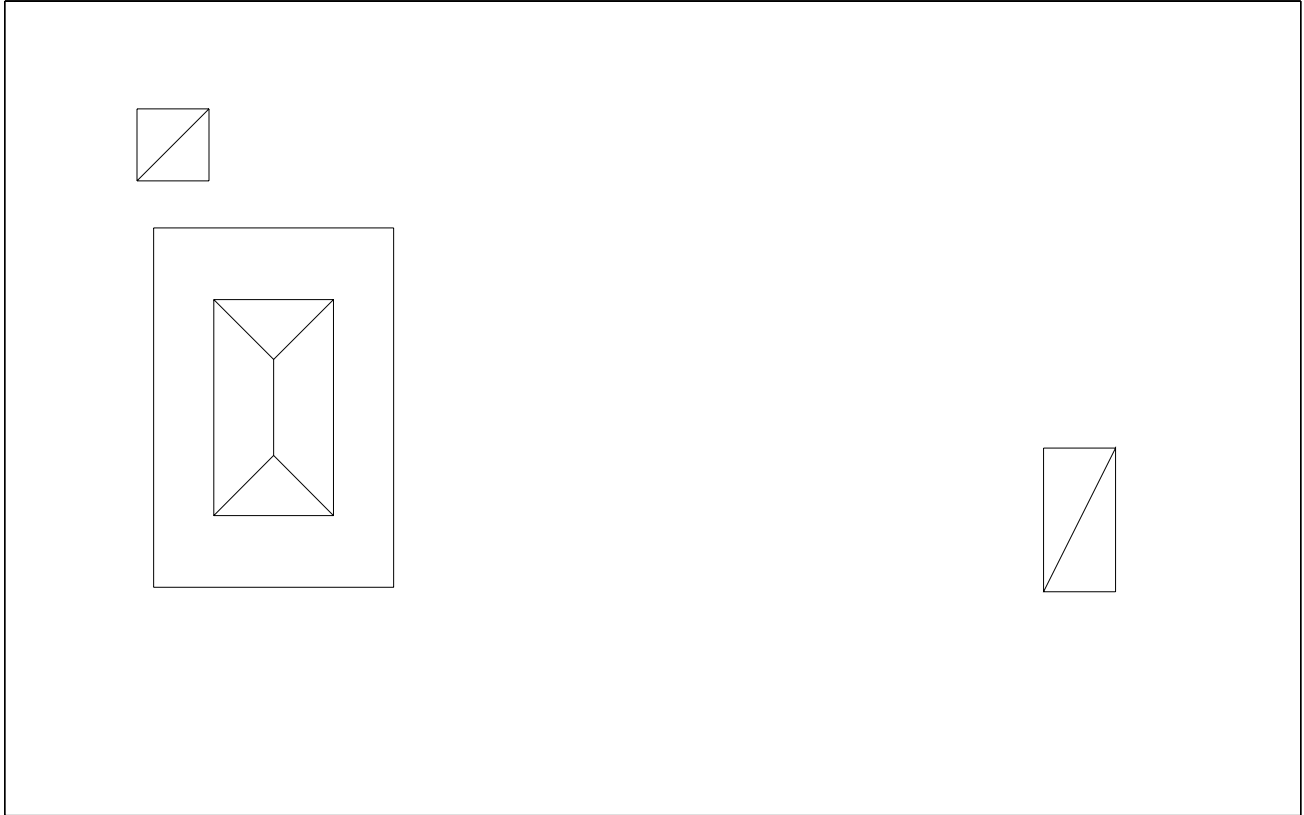
**Total Area:** 11,457 sf

<b>A</b>	<b>1,855</b>
<b>B</b>	<b>2,396</b>
<b>C</b>	<b>7,025</b>
<b>D</b>	<b>181</b>

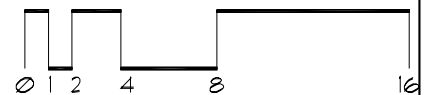
SYMBOLS KEY



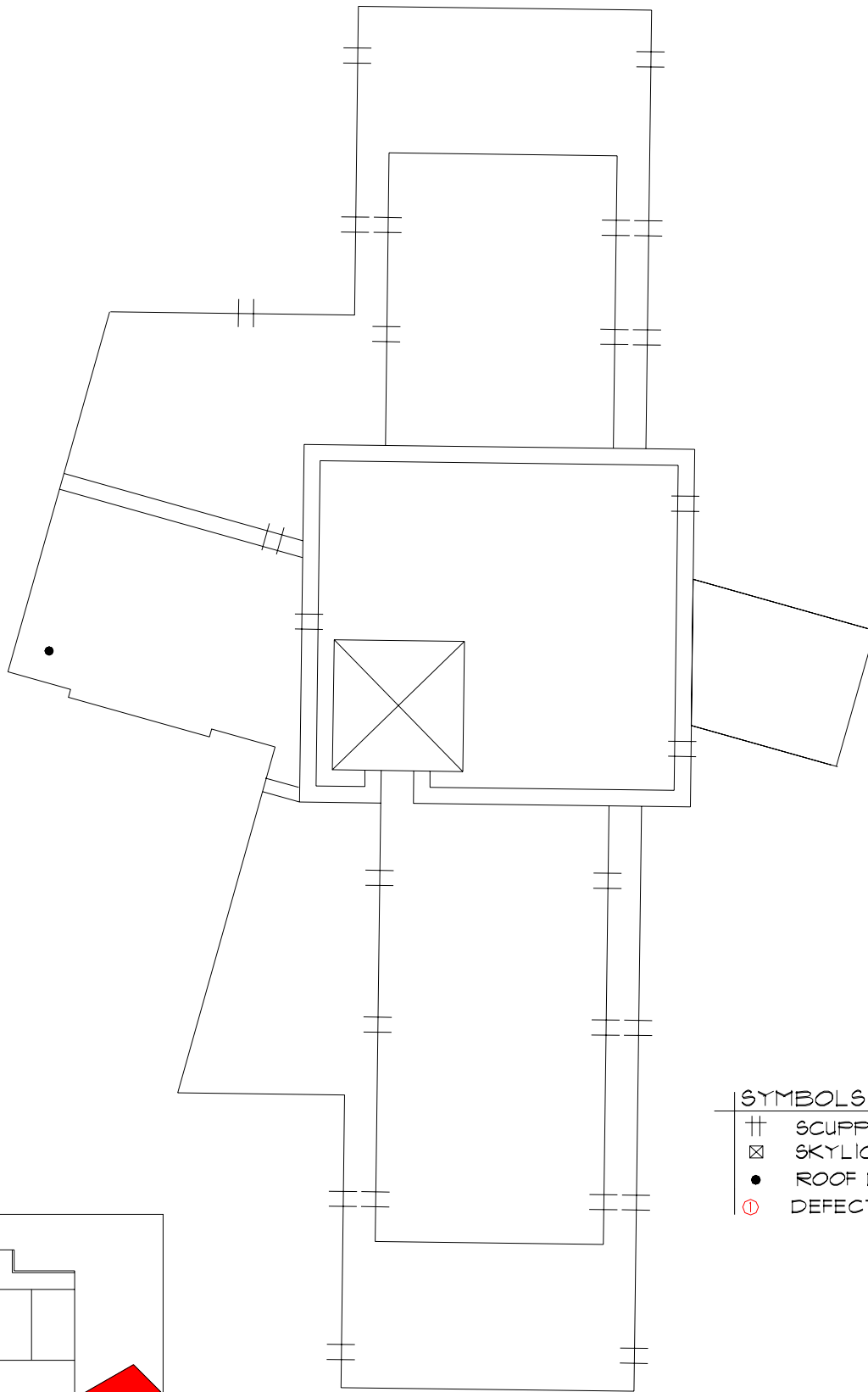
# Roof Corrective Action



SYMBOLS KEY  
☐ ROOF HATCH

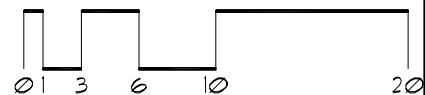
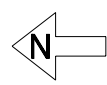
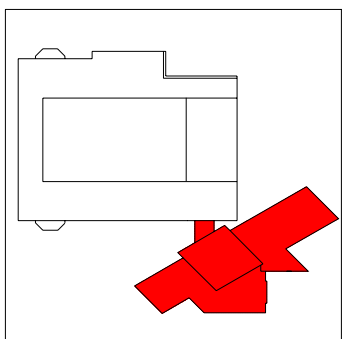


# Roof Corrective Action

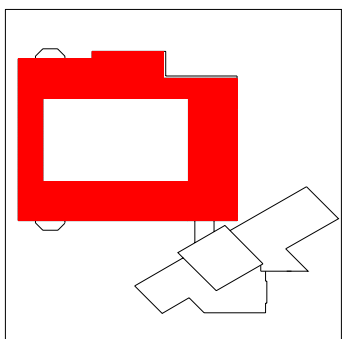
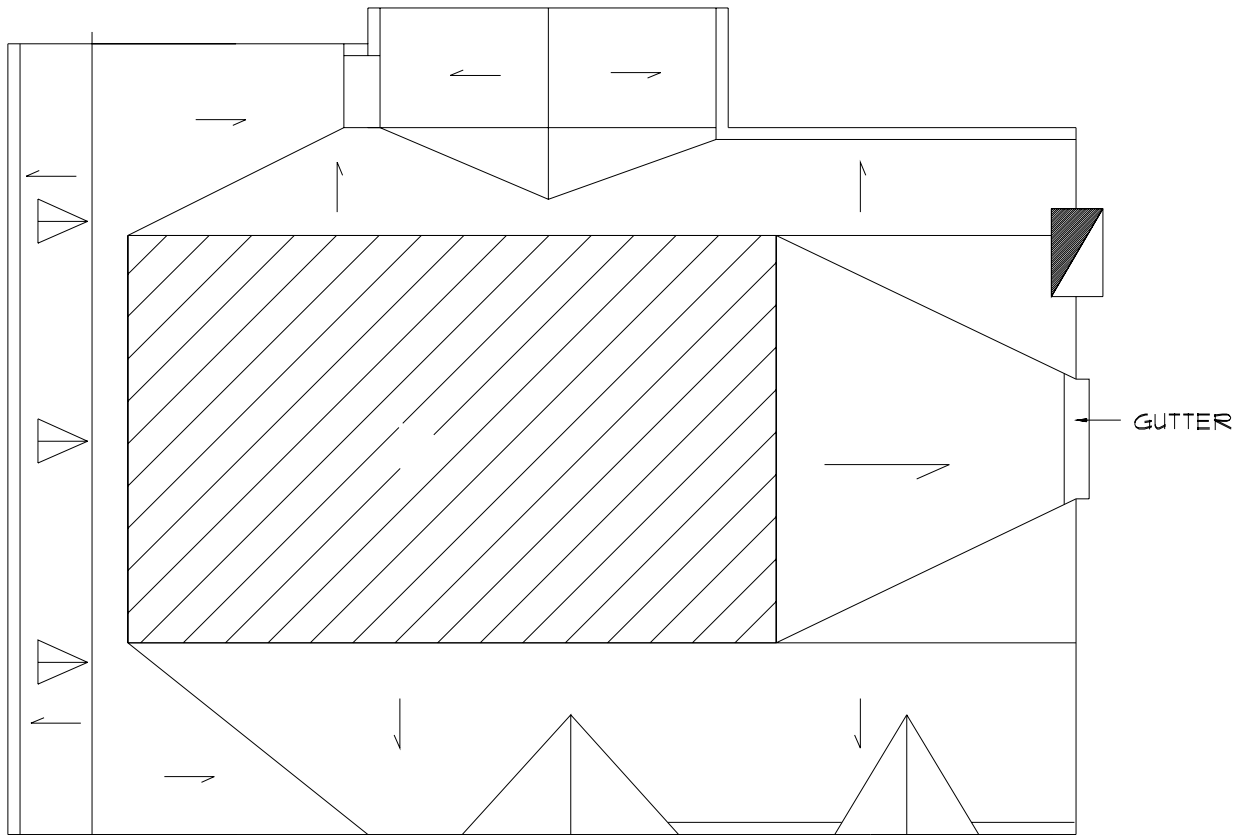



**SYMBOLS KEY**

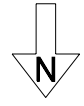
	SCUPPER
⊠	SKYLIGHT
●	ROOF DRAIN
Ⓢ	DEFECT-REPAIR



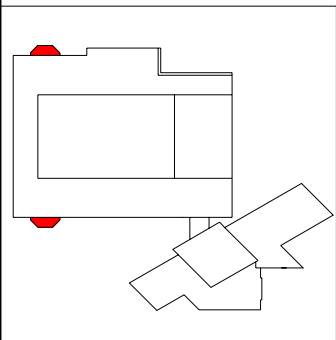
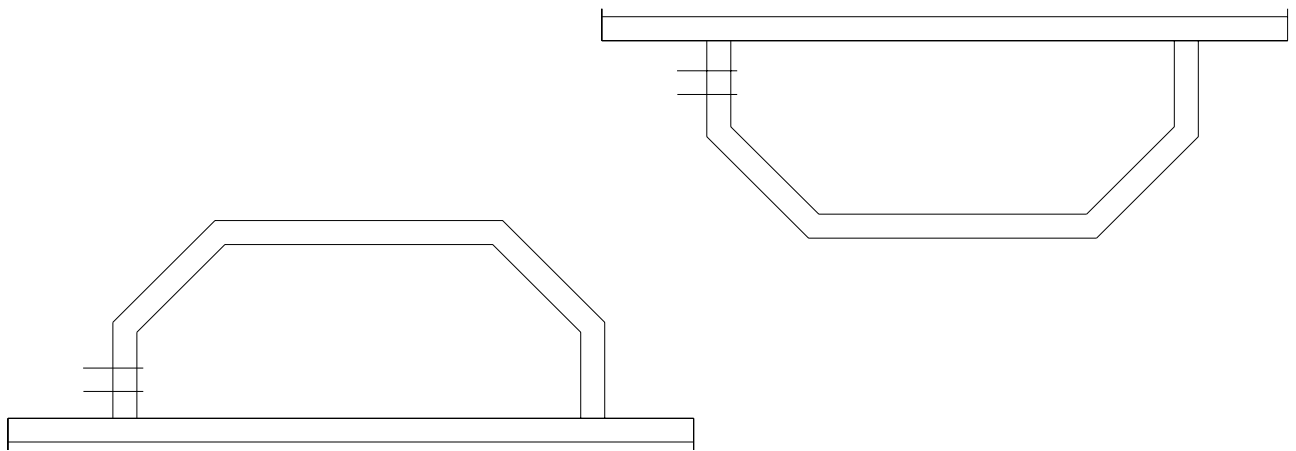
# Roof Corrective Action



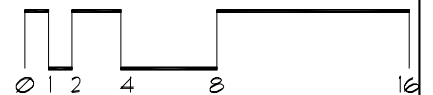
**SYMBOLS KEY**  
 → SLOPE DIRECTION  
 CHIMNEY  
 [Diagonal Hatching] DEFECT-REPAIR



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER



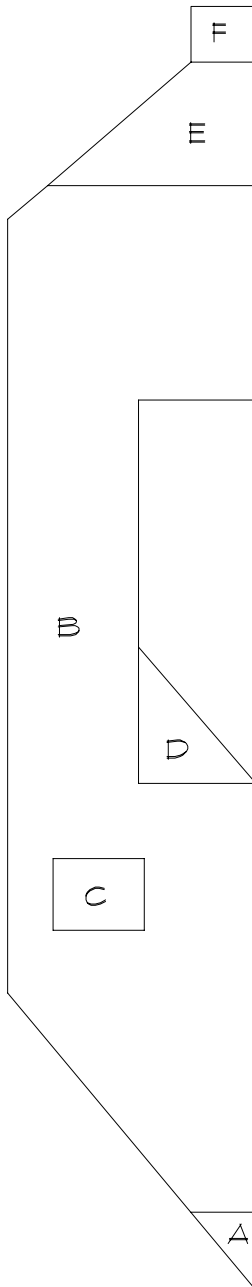
# Roof ID

**Building:** EB152 - Williamson Hall - (231 Pillsbury Dr Se., Mpls)

**Roof Access:** Room 325 to Area E

**Total Area:** 5,304 sf

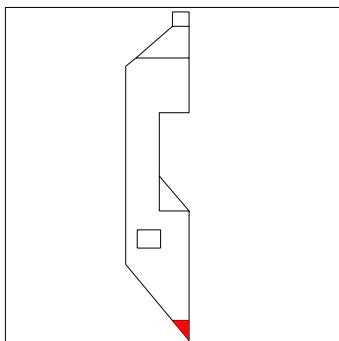
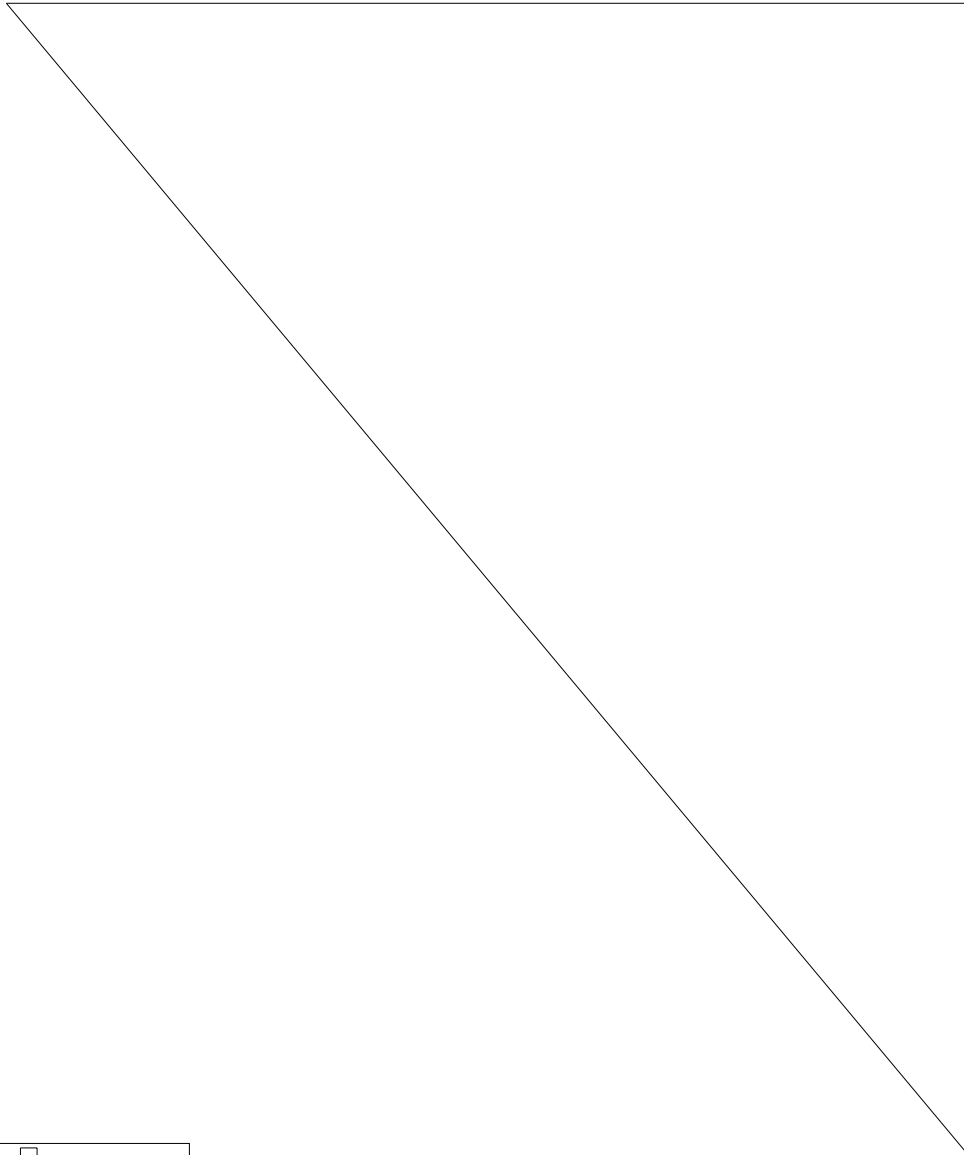
<u>A</u>	<u>60</u>	<u>E</u>	<u>430</u>
<u>B</u>	<u>4,335</u>	<u>F</u>	<u>136</u>
<u>C</u>	<u>154</u>		
<u>D</u>	<u>189</u>		



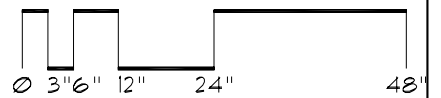
SYMBOLS KEY



# Roof Corrective Action

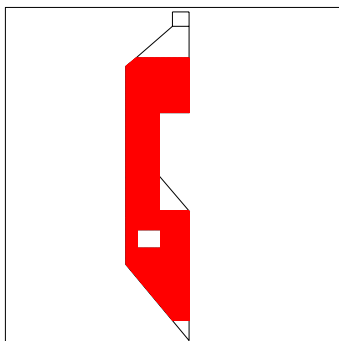
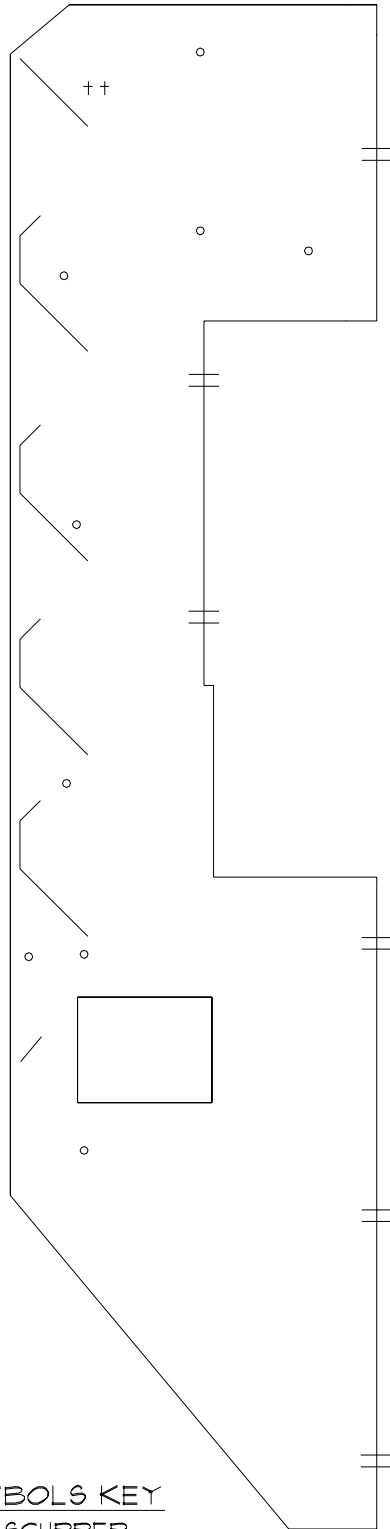


SYMBOLS KEY  
① DEFECT-REPAIR



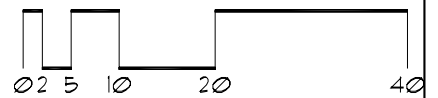


# Roof Corrective Action

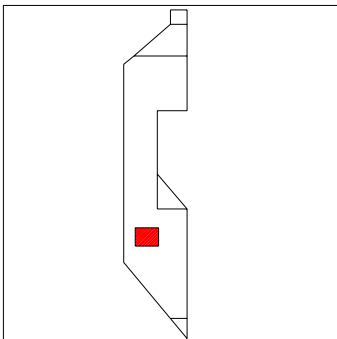
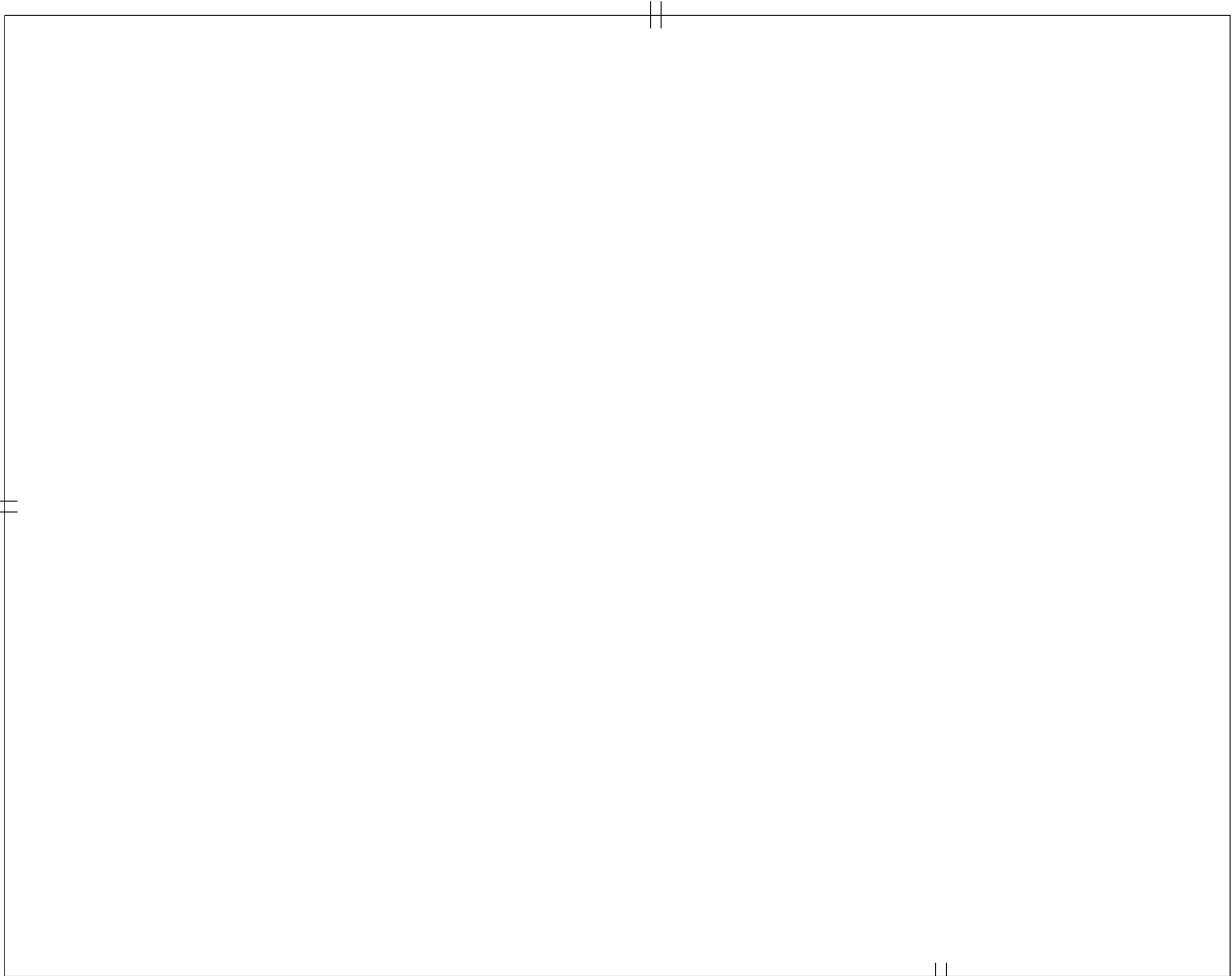


## SYMBOLS KEY

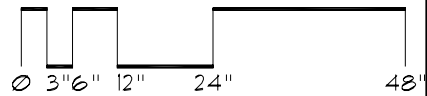
- ++ SCUPPER
- o VENT STACK
- ROOF CURB
- + FLASHED PENETRATION



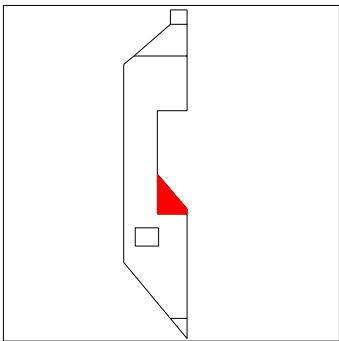
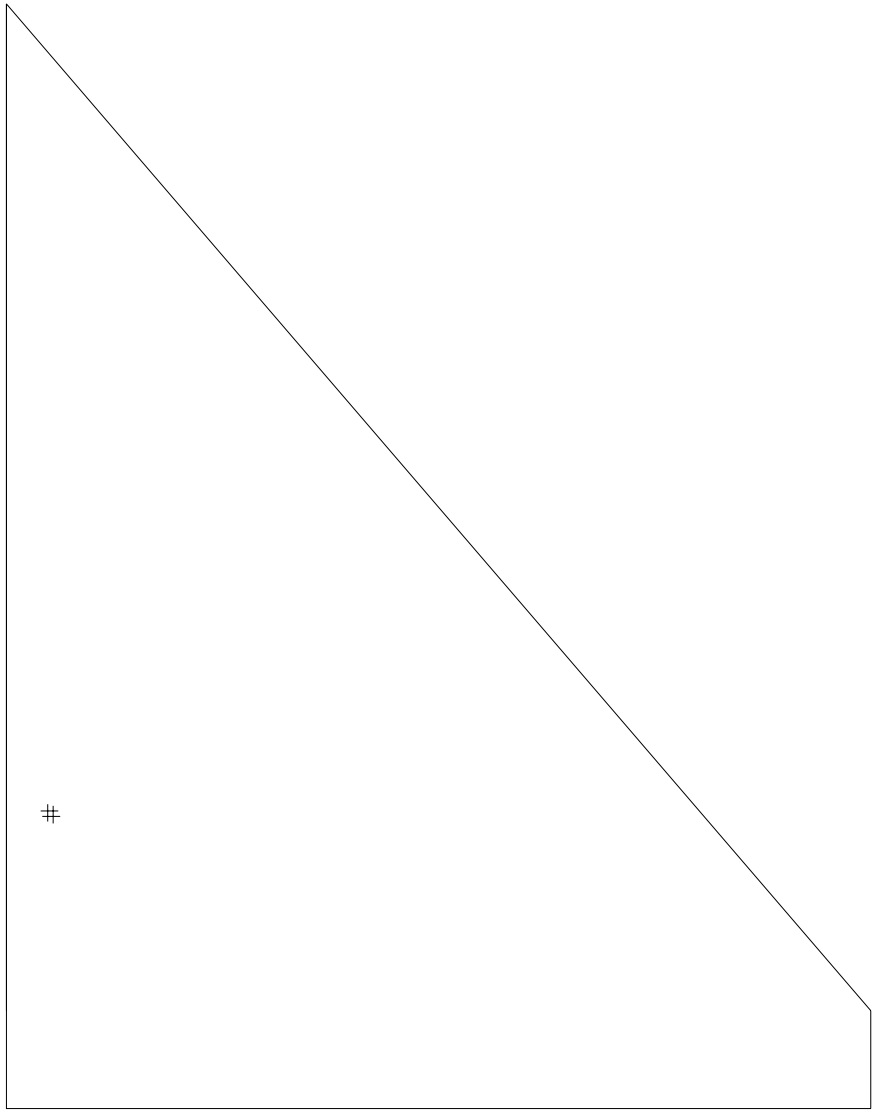
# Roof Corrective Action



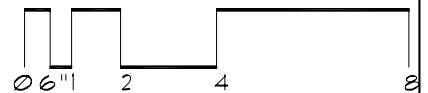
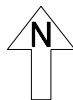
SYMBOLS KEY  
|| SCUPPER



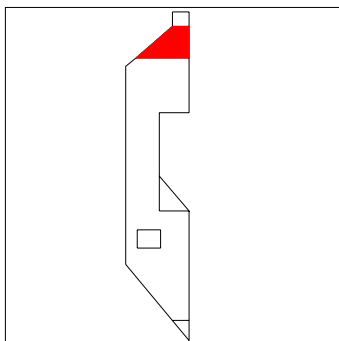
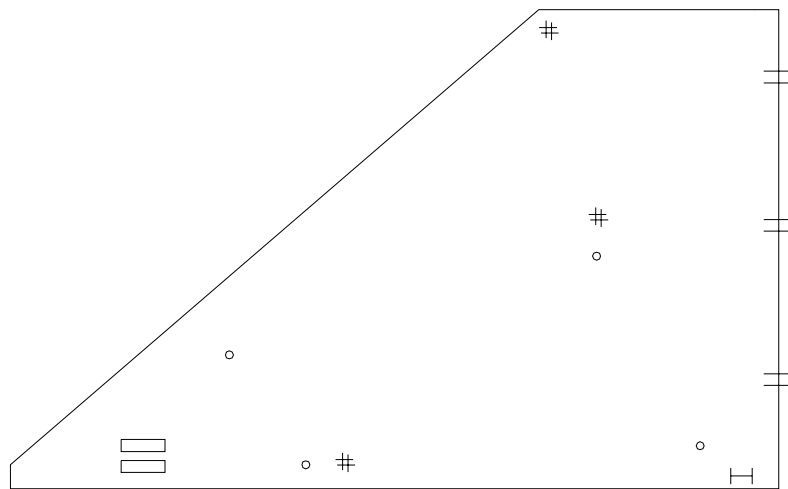
# Roof Corrective Action



SYMBOLS KEY  
# PITCH PAN  
Ⓢ DEFECT-REPAIR

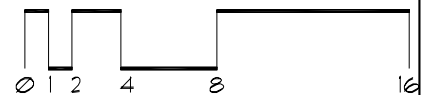


# Roof Corrective Action

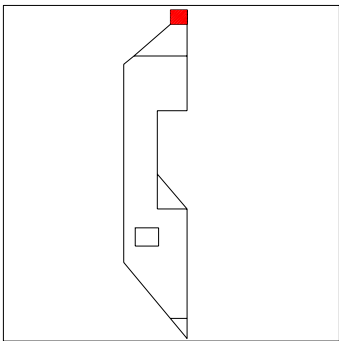
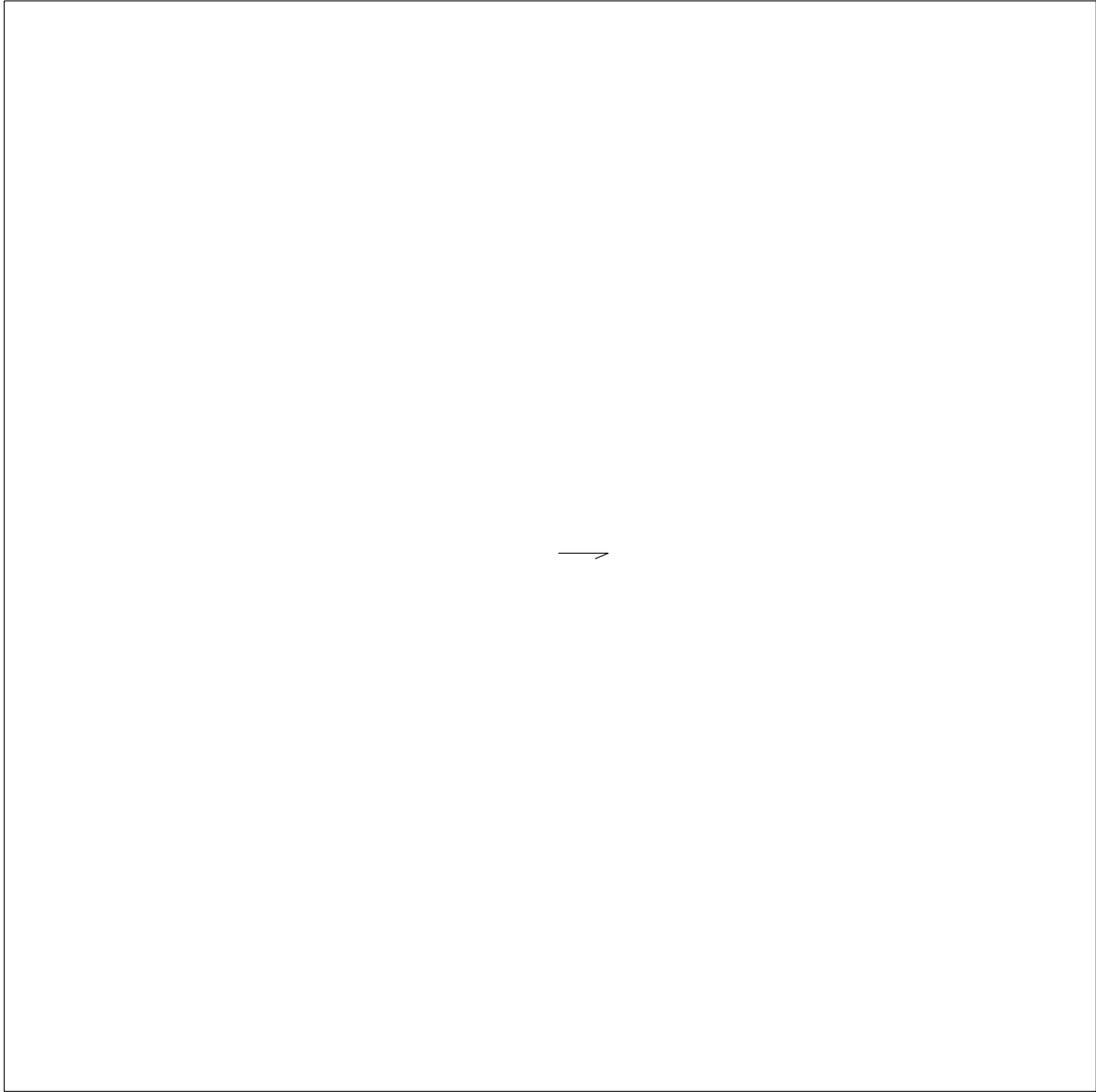


**SYMBOLS KEY**

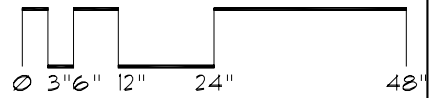
□	ROOF CURB
	SCUPPER
#	PITCH PAN
○	VENT STACK
Ⓢ	DEFECT-REPAIR

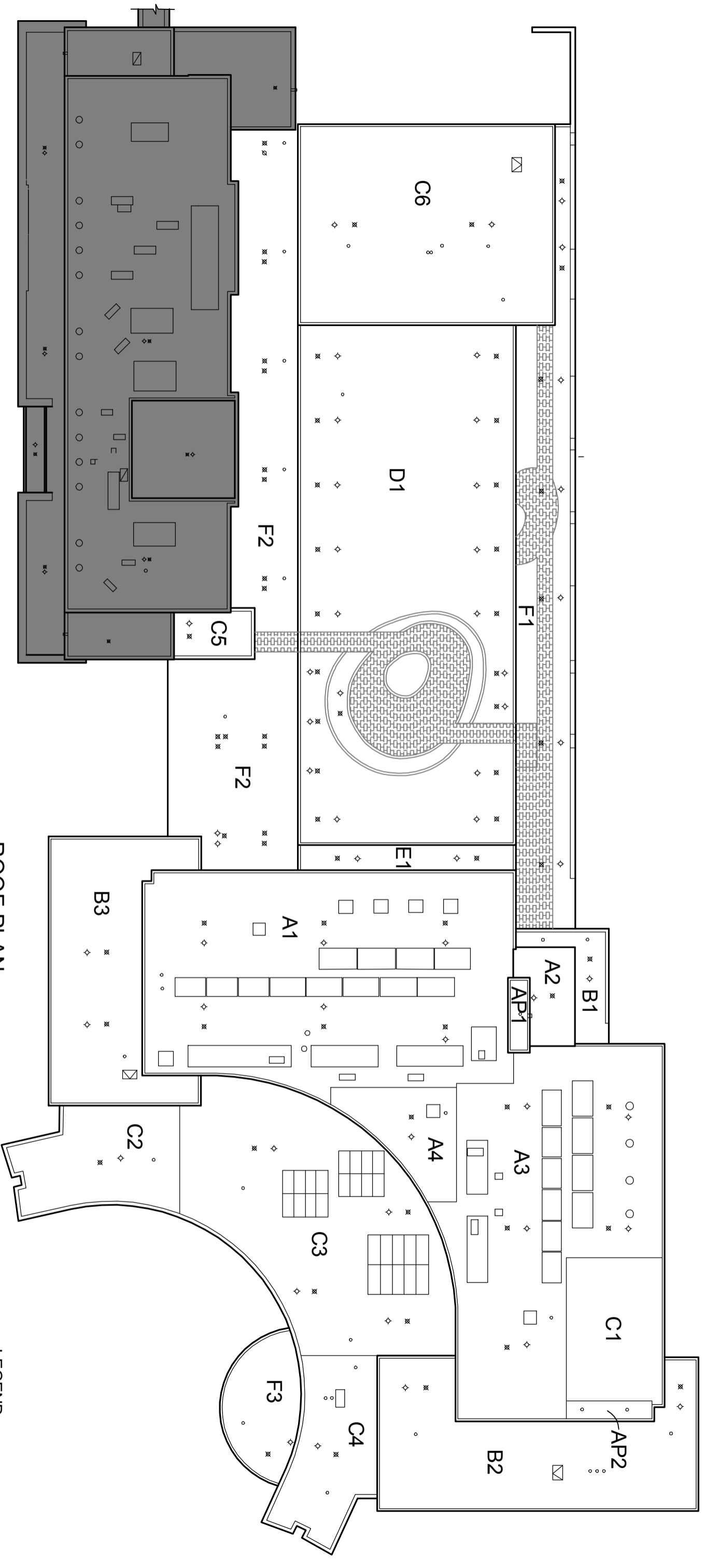


# Roof Corrective Action



SYMBOLS KEY  
→ SLOPE DIRECTION



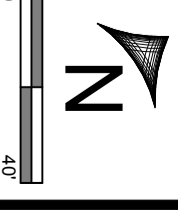


**ROOF PLAN**

SCALE: 1" = 40'

- LEGEND**
- ⊗ ROOF DRAIN
  - ◇ OVERFLOW ROOF DRAIN
  - ≡ SCUPPER
  - PIPE PENETRATION / VENT STACK
  - MECHANICAL CURB (SIZES VARY)
  - ▣ ROOF HATCH

UNIVERSITY OF MINNESOTA  
 CANCER AND CARDIOVASCULAR RESEARCH BUILDING #153  
 2101 6th ST SE  
 MINNEAPOLIS, MINNESOTA 55455



# Roof ID

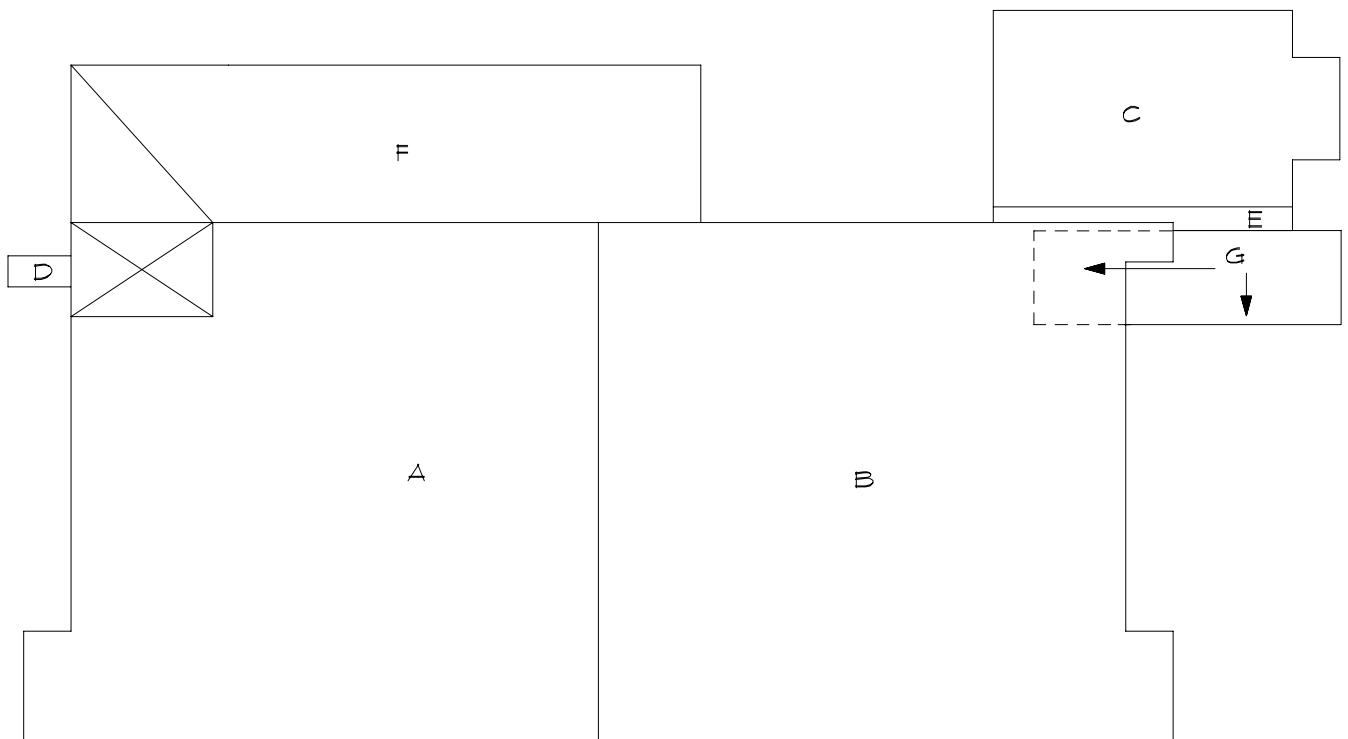
**Building:** EB156 - Civil Engineering - (500 Pillsbury Drive Se, mpls.)

**Roof Access:** NE stairwell, east (middle) stairwell; Ladder for E,G

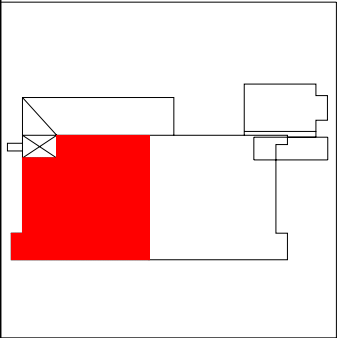
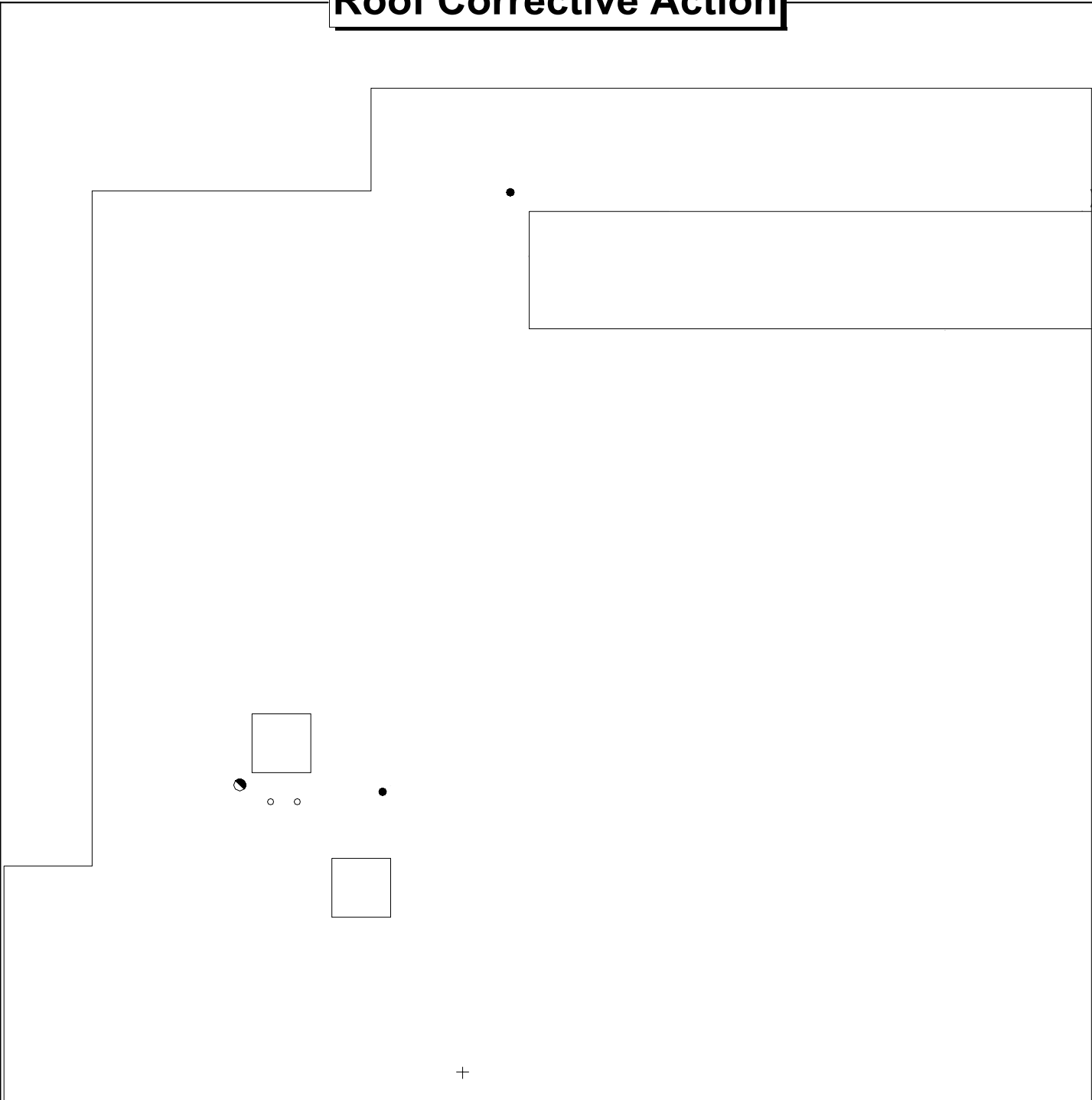
**Total Area:** 12,683 sf

<u>A</u>	<u>4,655</u>	<u>E</u>	<u>91</u>
<u>B</u>	<u>4,825</u>	<u>F</u>	<u>1,600</u>
<u>C</u>	<u>954</u>	<u>G</u>	<u>468</u>
<u>D</u>	<u>90</u>		

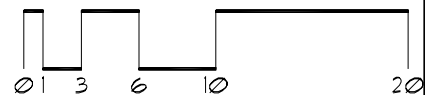
## SYMBOLS KEY



# Roof Corrective Action

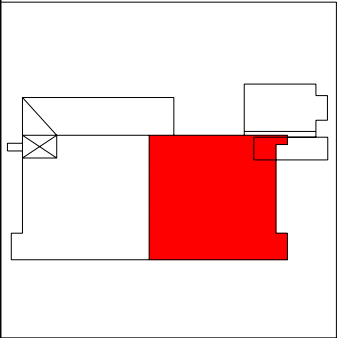
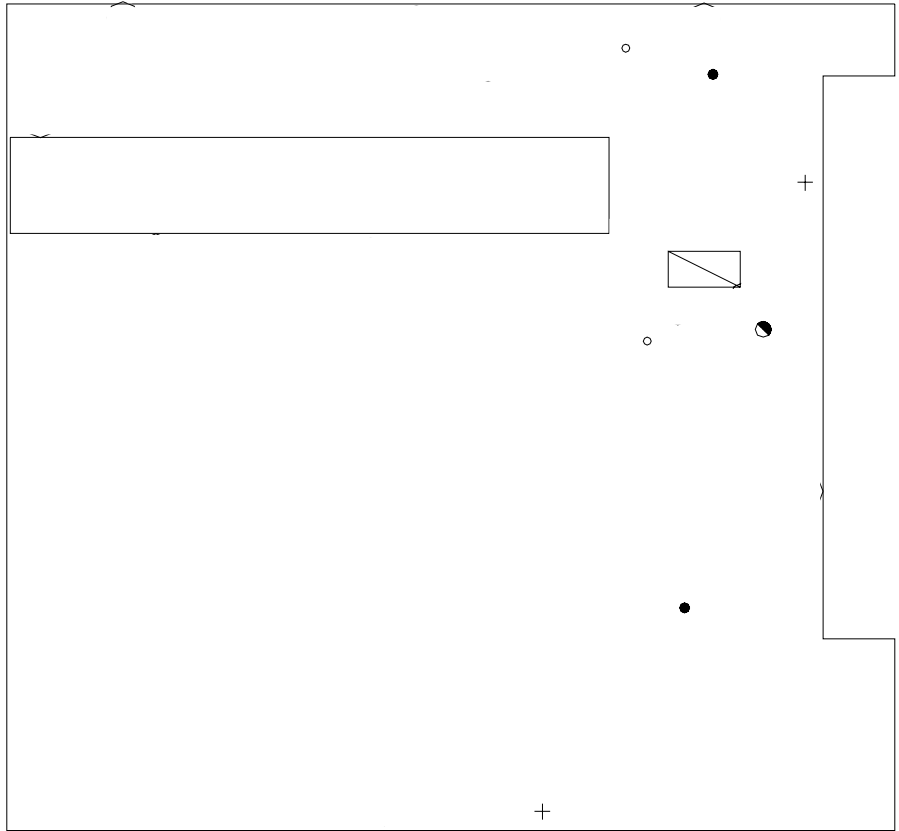


- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - + FLASHED PENETRATION
  - ① DEFECT-NO REPAIR
  - Ⓜ DEFECT-REPAIR

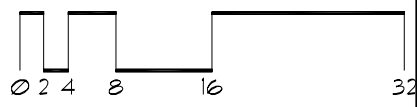




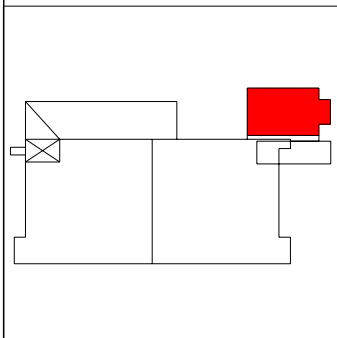
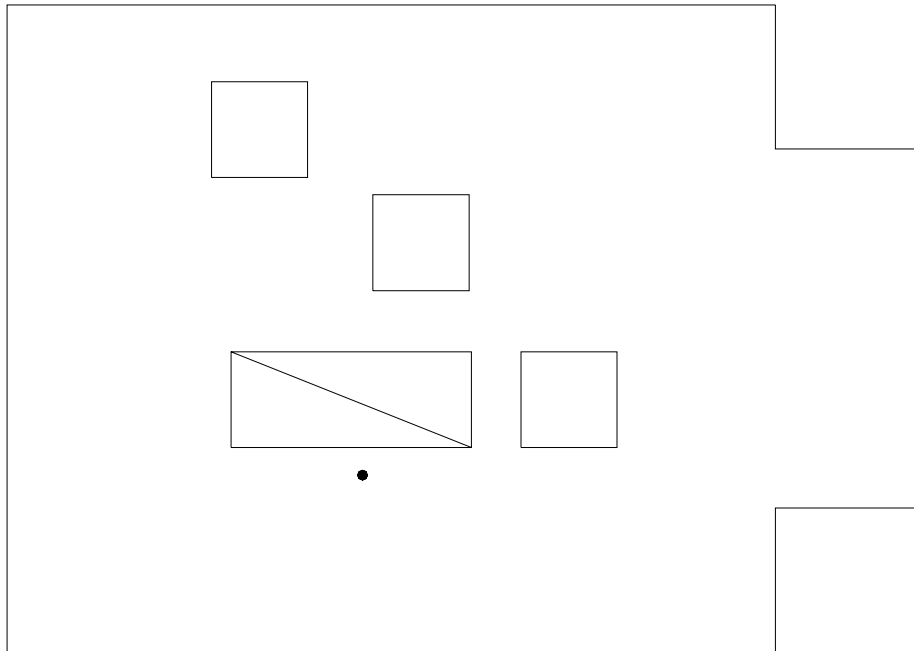
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ⊕ FLASHED PENETRATION
  - ▣ ROOF HATCH
  - ⓪ DEFECT-NO REPAIR
  - Ⓛ DEFECT-REPAIR

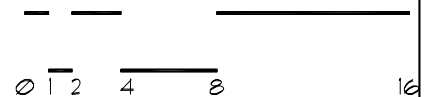


# Roof Corrective Action



## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- ▣ ROOF HATCH
- ⓪ DEFECT-NO REPAIR

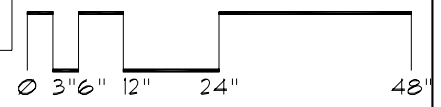
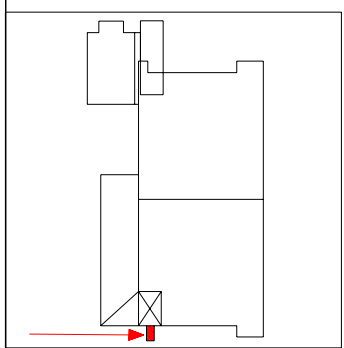


# Roof Corrective Action

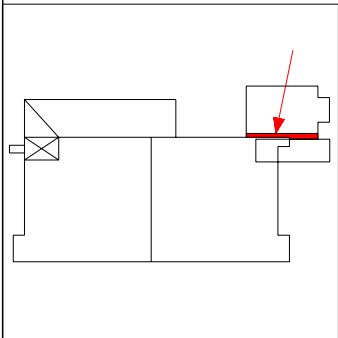
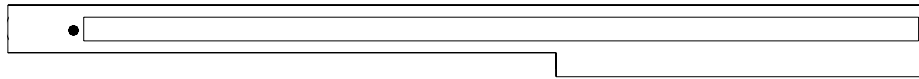


## SYMBOLS KEY

- ROOF DRAIN
- ⓪ DEFECT-NO REPAIR

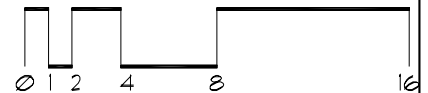


# Roof Corrective Action

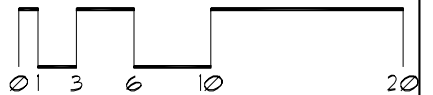
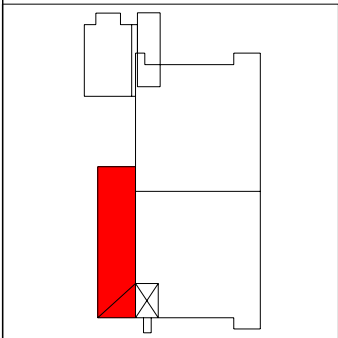
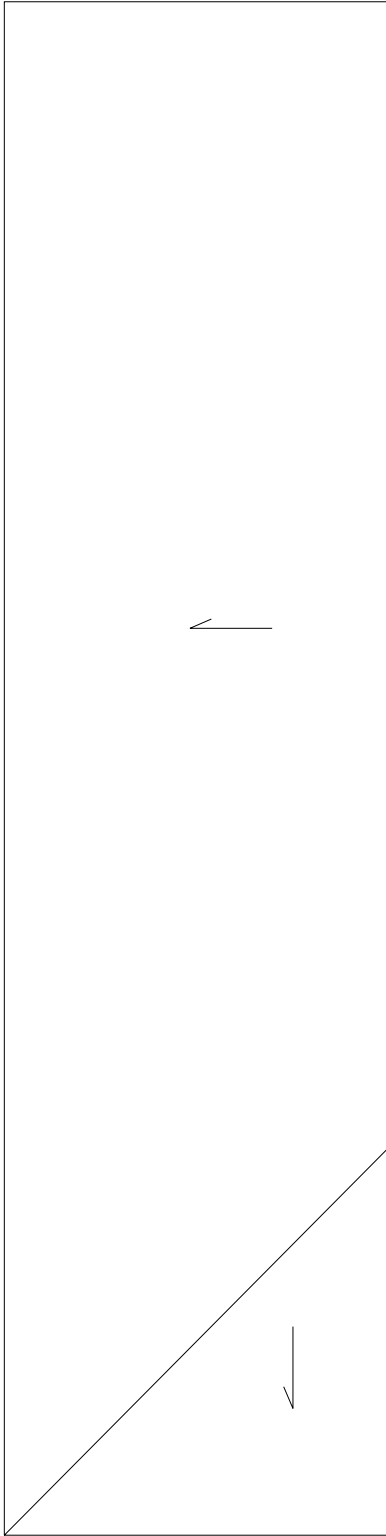


## SYMBOLS KEY

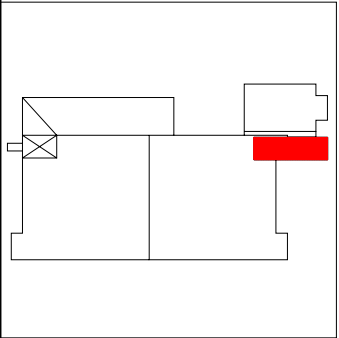
- ROOF CURB
- ROOF DRAIN
- ① DEFECT-NO REPAIR



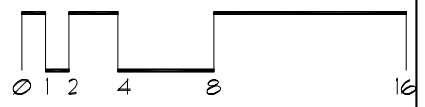
# Roof Corrective Action



# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER

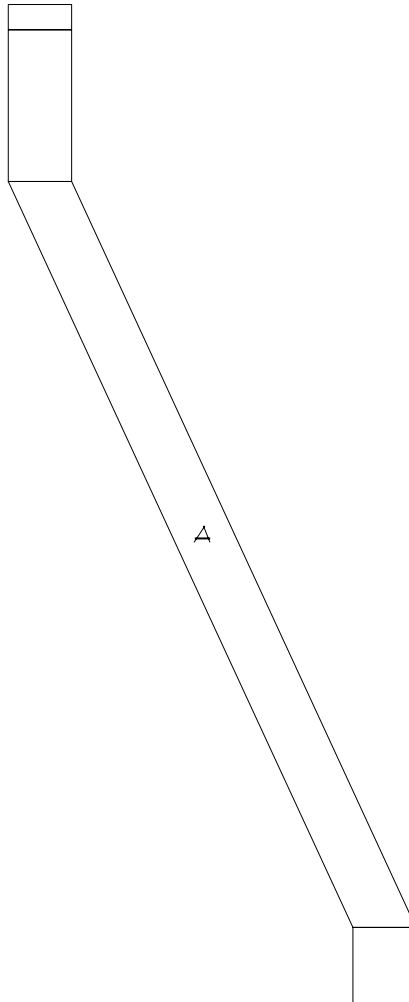


# Roof ID

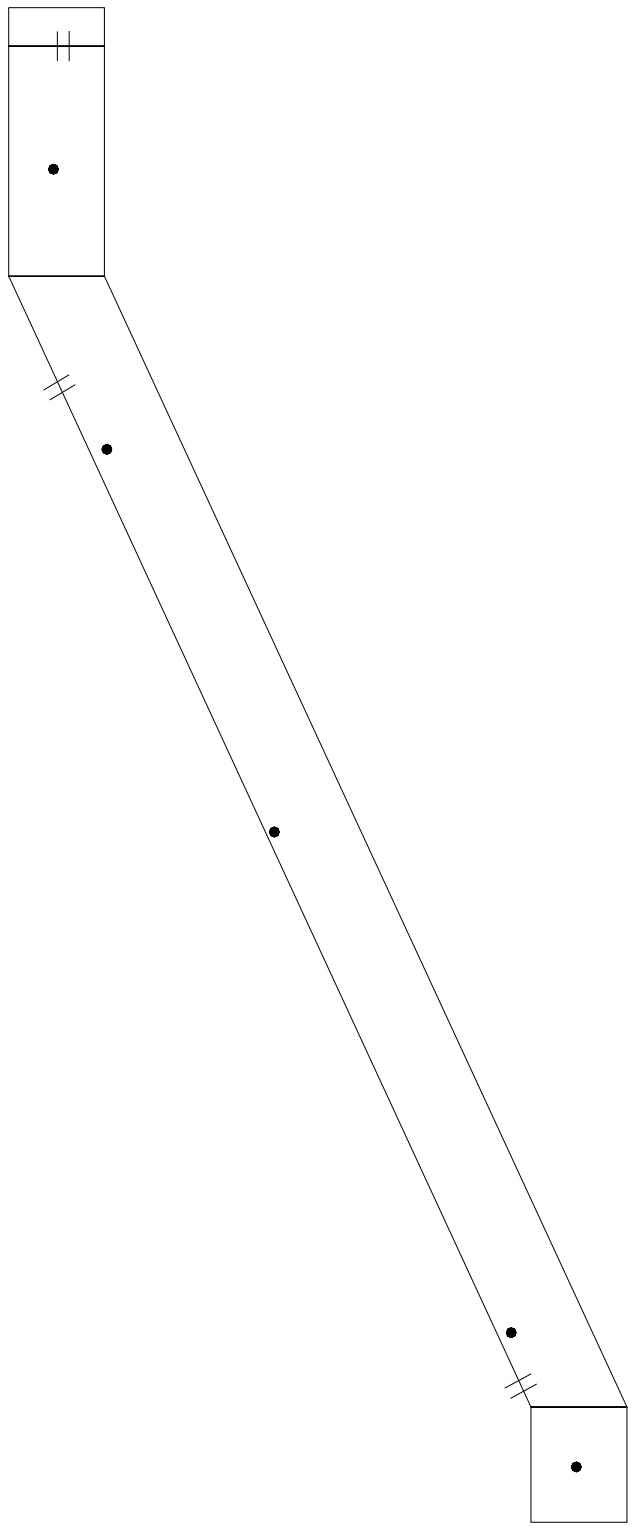
Building: EB158A - Skyway - ()

Total Area: 1,580 sf

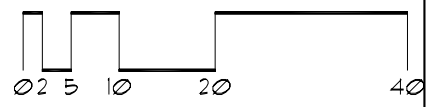
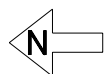
A 1,580



# Roof Corrective Action



SYMBOLS KEY	
●	ROOF DRAIN
∥	SCUPPER
⊖	DEFECT-REPAIR

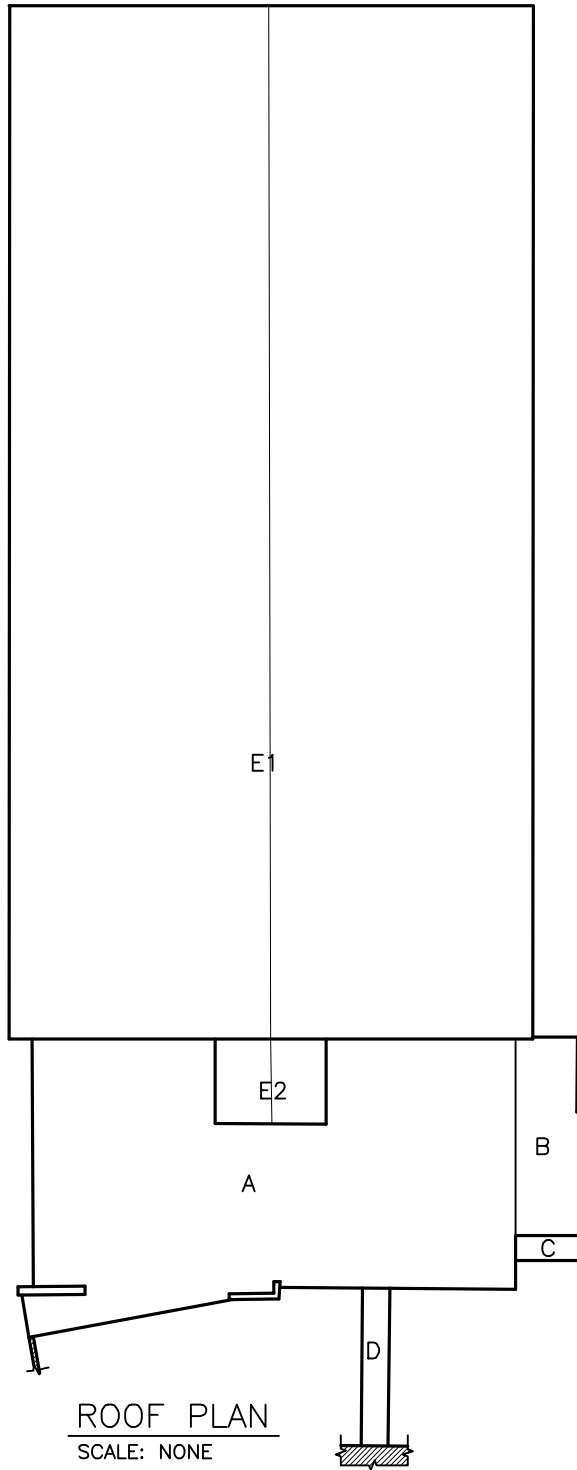




AREA A = 16,759 SQ FT  
AREA B = 1,840 SQ FT

AREA C = 78,255 SQ FT  
AREA D = 606 SQ FT

AREA E = 78,255 SQ FT



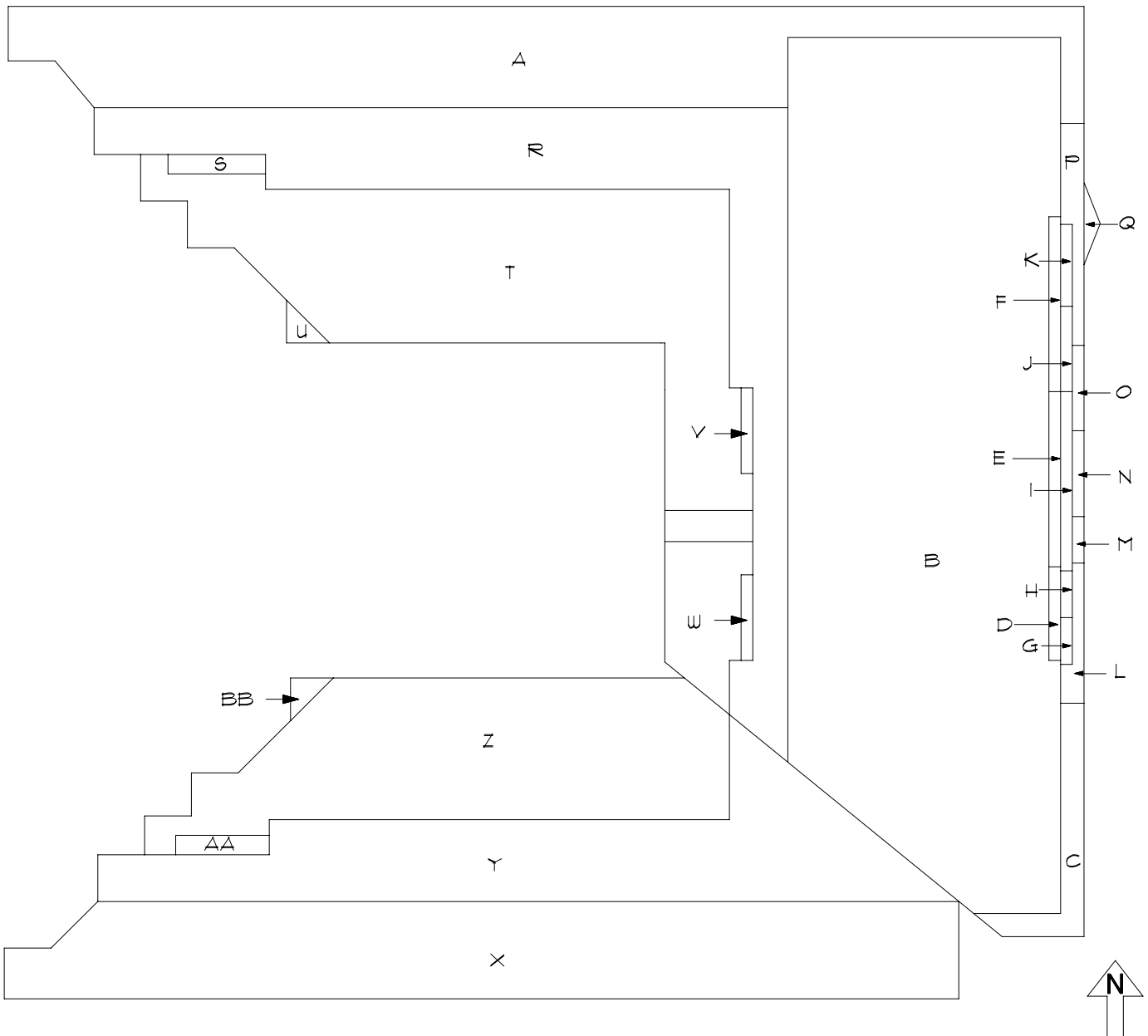
# Roof ID

**Building:** EB165 - EECS - (200 Union St Se, Mpls)

**Roof Access:** SE mechanical room top floor

**Total Area:** 49,031 sf

A	5,736	C	472	G	36	K	63	O	66	S	125
AA	75	D	72	H	36	L	138	P	249	T	6,665
B	14,483	E	135	I	138	M	36	Q	60	U	61
BB	61	F	135	J	66	N	66	R	5,038	V	66



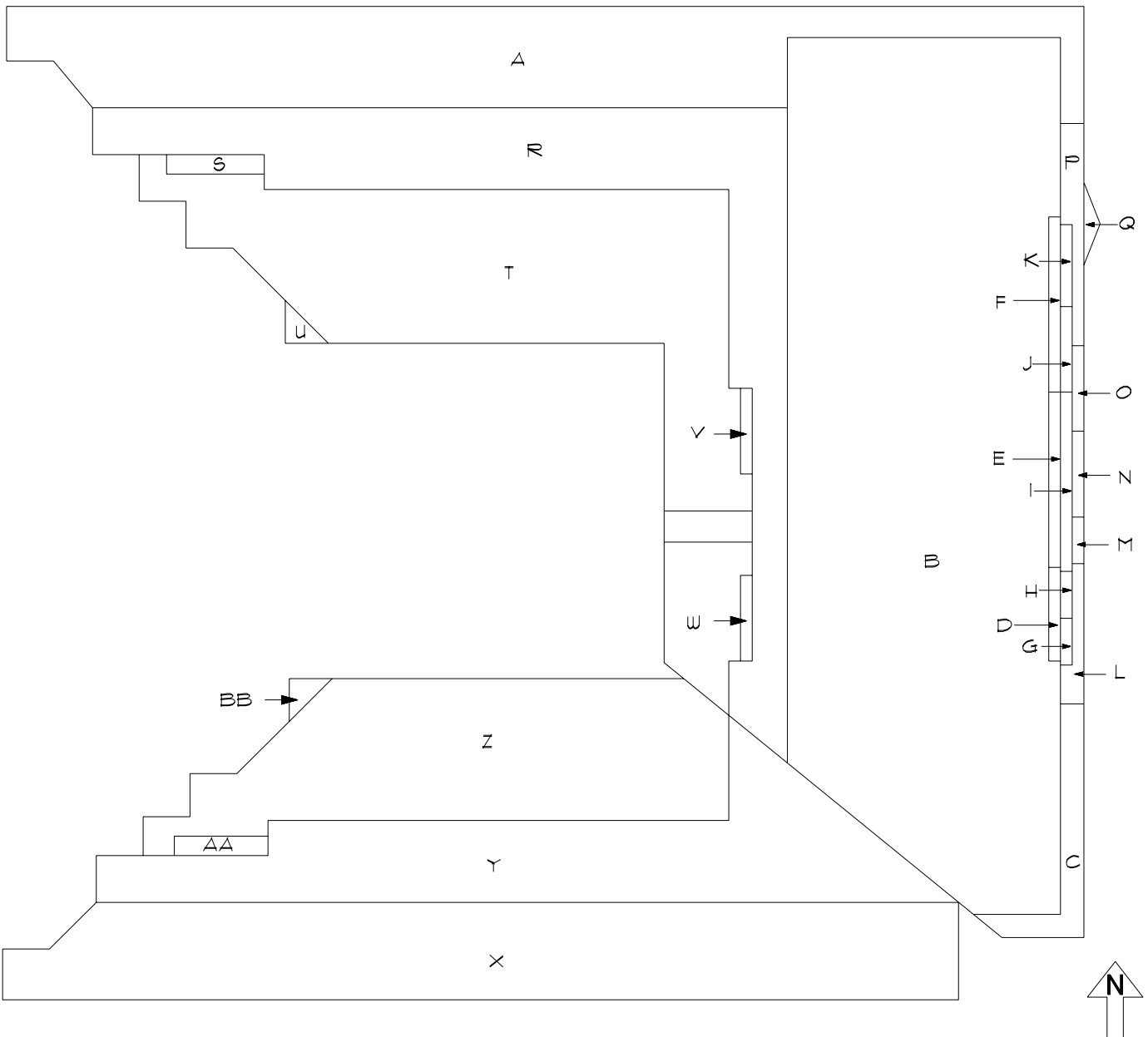
# Roof ID

**Building:** EB165 - EECS - (200 Union St Se, Mpls)

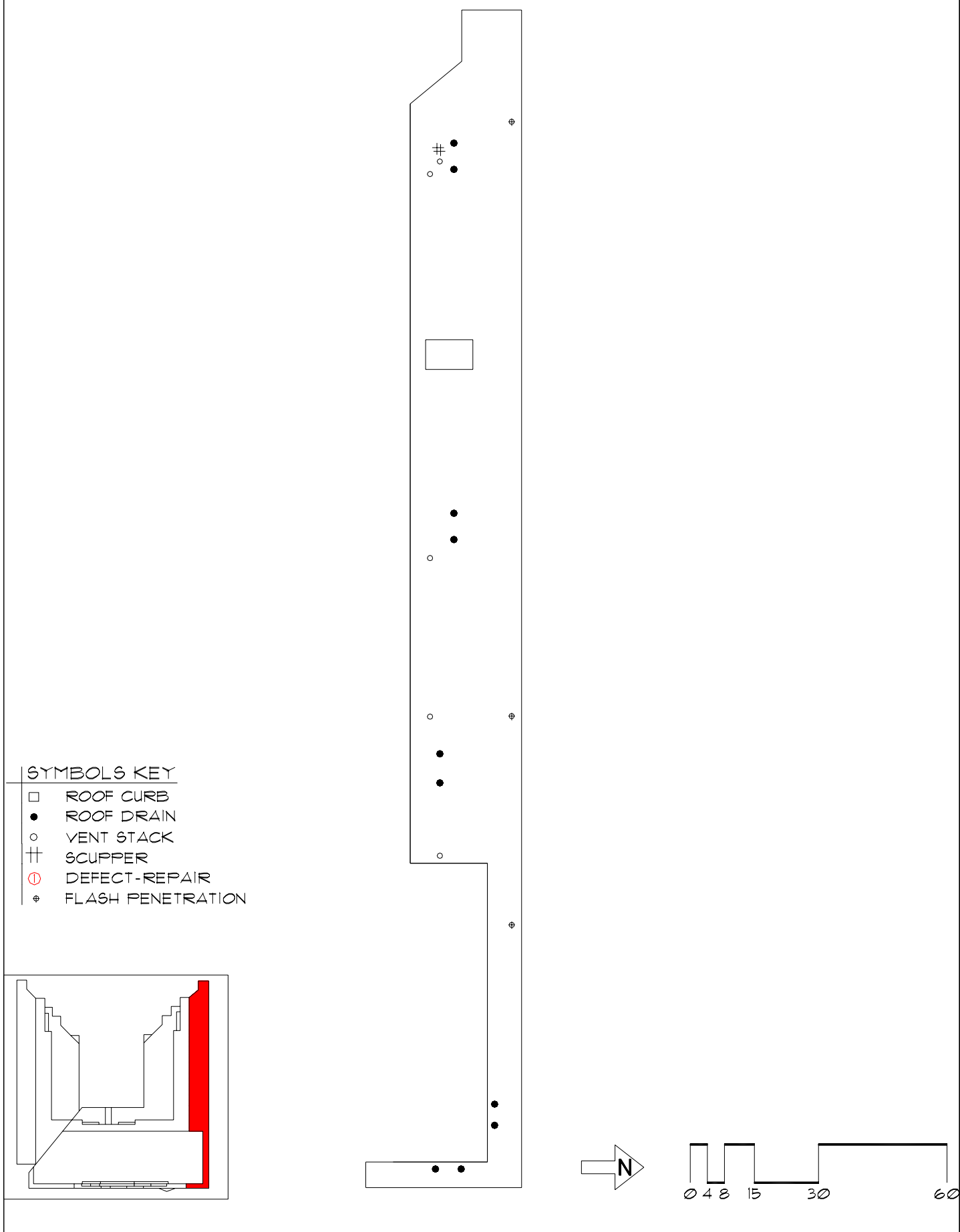
**Roof Access:** SE mechanical room top floor

**Total Area:** 49,031 sf

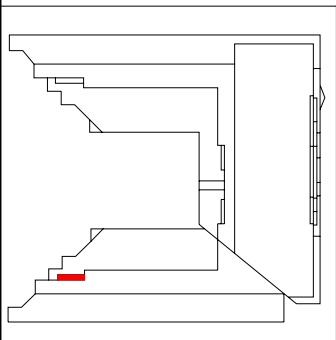
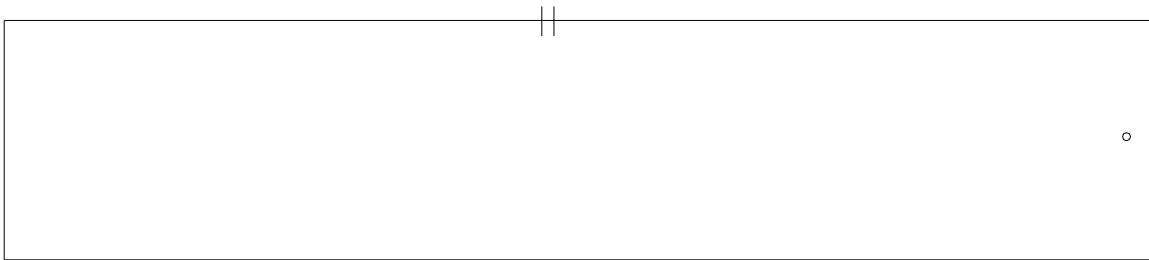
<b>W</b>	<b>66</b>
<b>X</b>	<b>5,906</b>
<b>Y</b>	<b>4,419</b>
<b>Z</b>	<b>4,562</b>



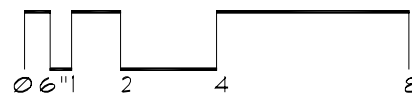
# Roof Corrective Action



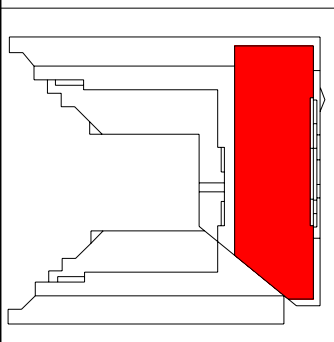
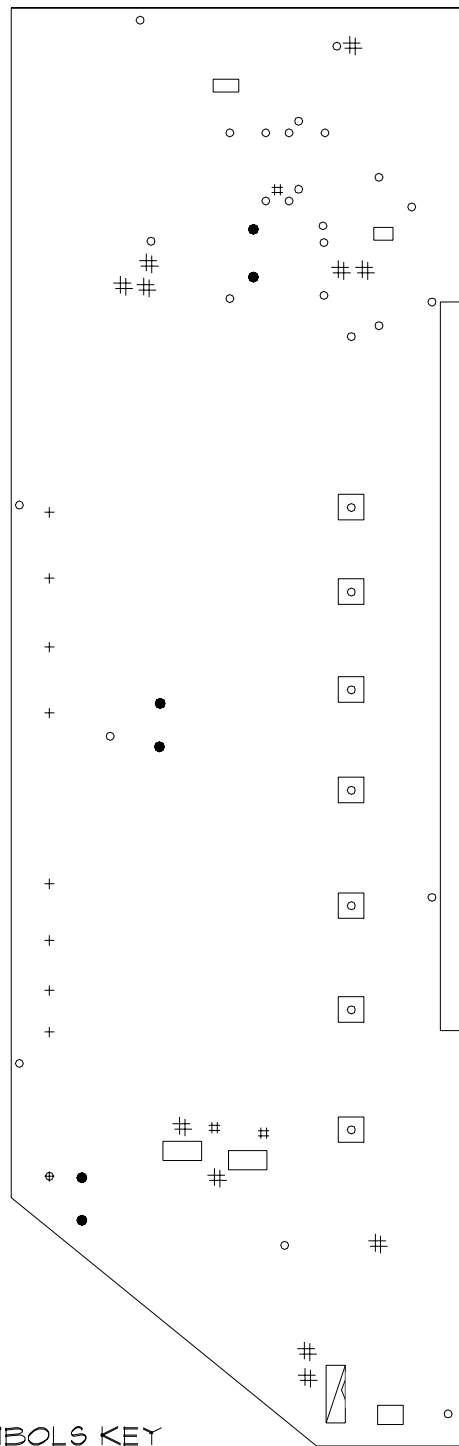
# Roof Corrective Action



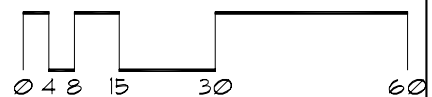
SYMBOLS KEY  
|| SCUPPER  
o VENT STACK



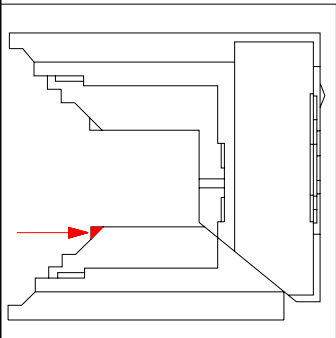
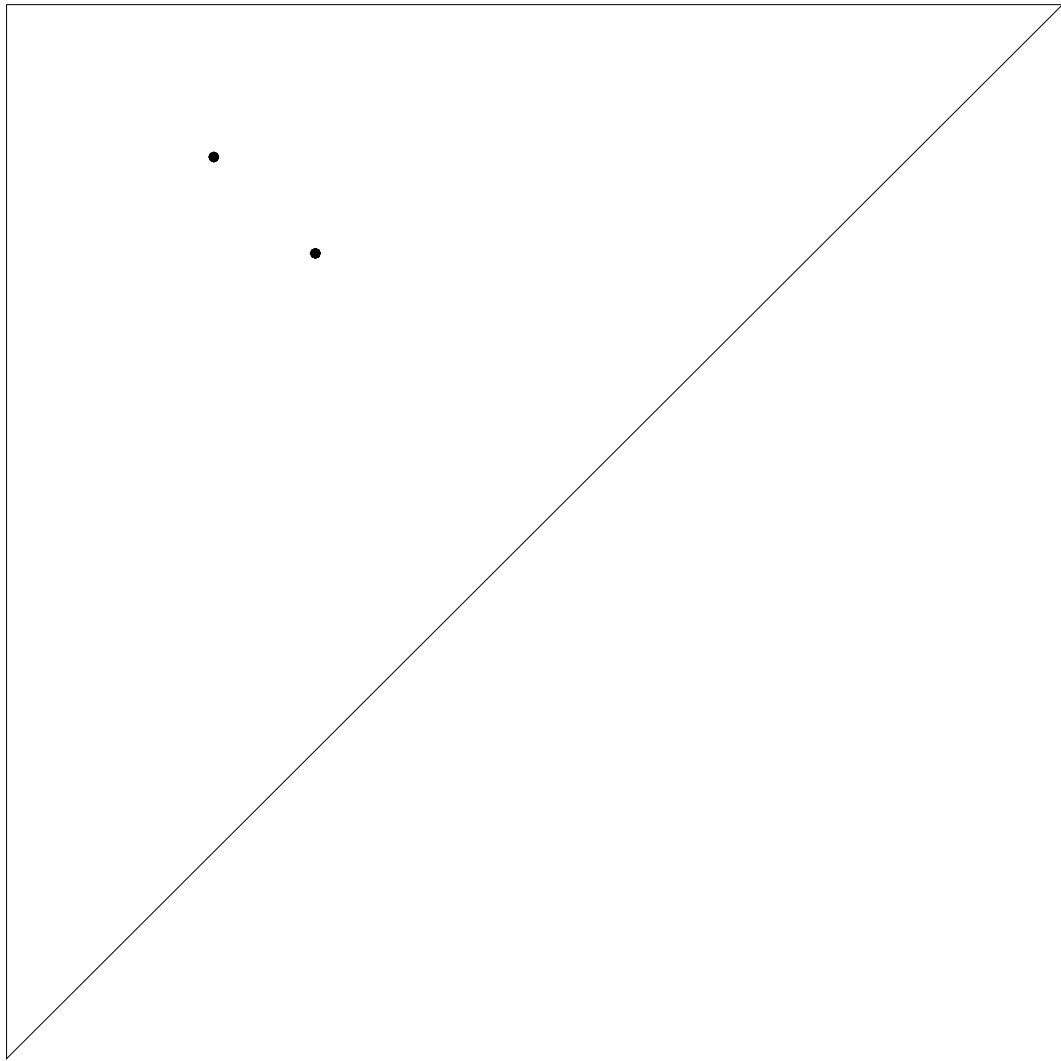
# Roof Corrective Action



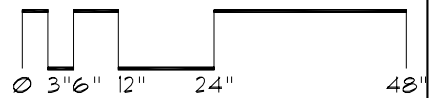
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - # PITCH PAN
  - DEFECT-REPAIR
  - ⊕ FLASHED PENETRATION
  - HEAT STACK
  - ① DEFECT-NO REPAIR



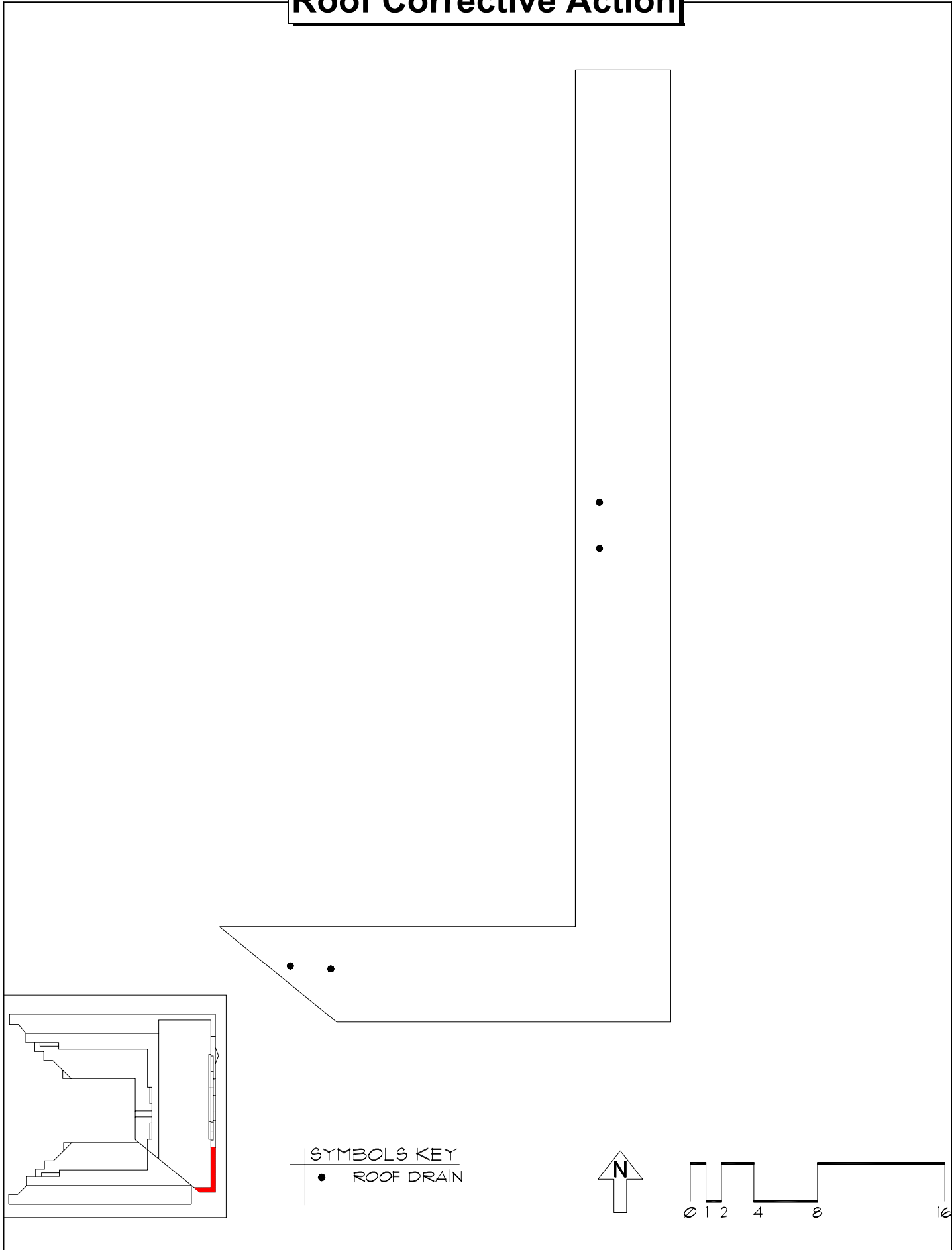
# Roof Corrective Action



SYMBOLS KEY  
● ROOF DRAIN

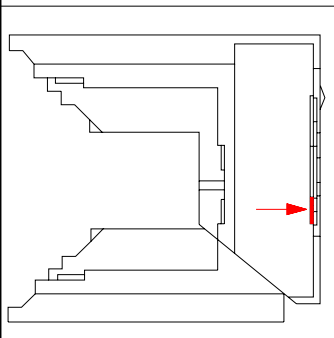


# Roof Corrective Action

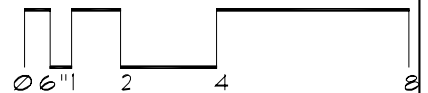




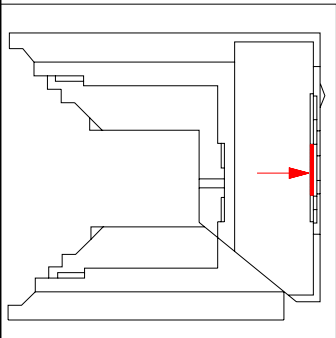
# Roof Corrective Action



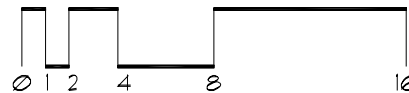
SYMBOLS KEY  
● ROOF DRAIN



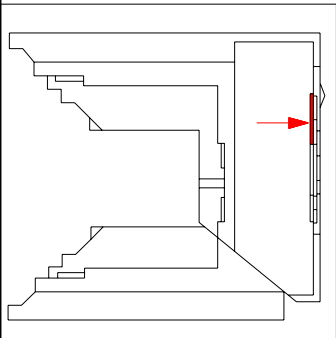
# Roof Corrective Action



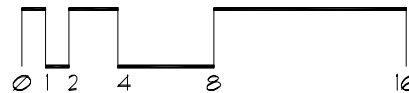
SYMBOLS KEY  
● ROOF DRAIN



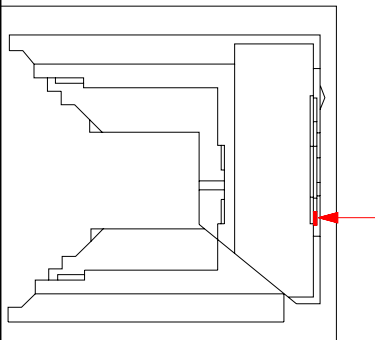
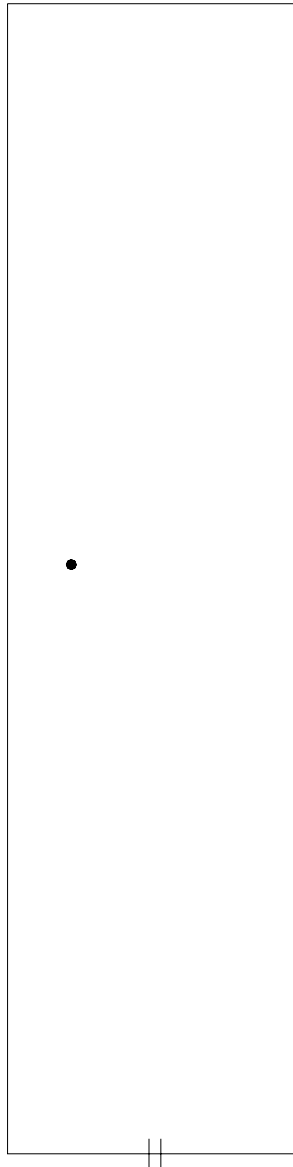
# Roof Corrective Action



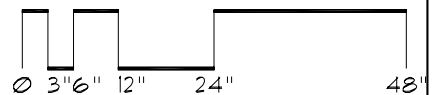
SYMBOLS KEY  
• ROOF DRAIN



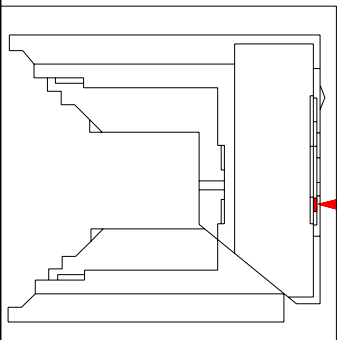
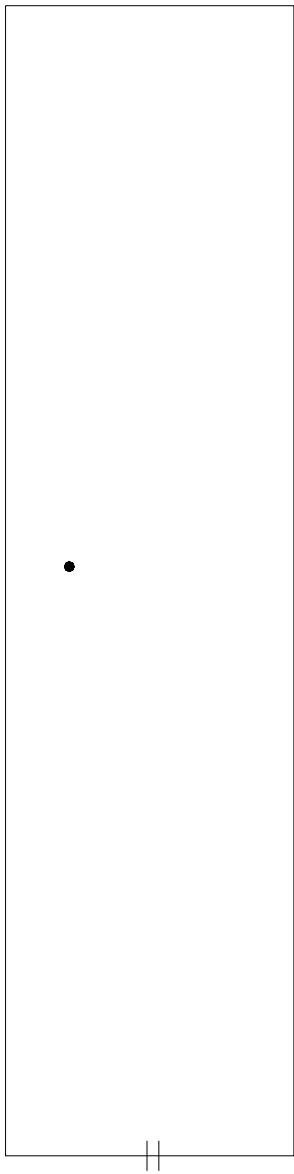
# Roof Corrective Action



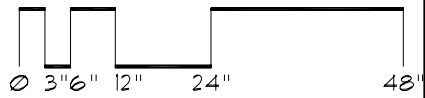
SYMBOLS KEY	
•	ROOF DRAIN
	SCUPPER



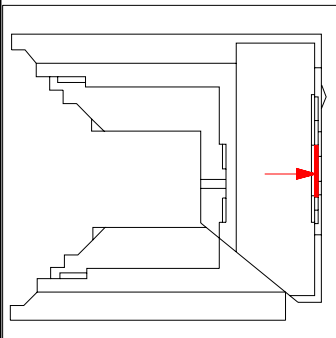
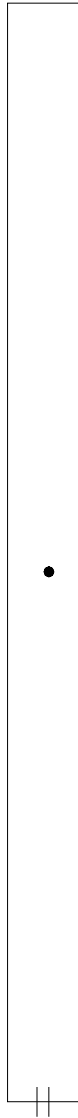
# Roof Corrective Action



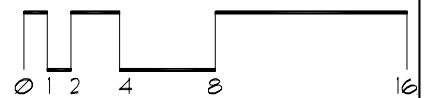
SYMBOLS KEY	
•	ROOF DRAIN
	SCUPPER



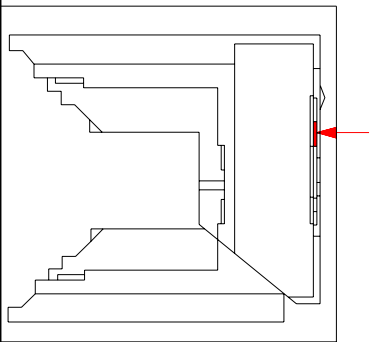
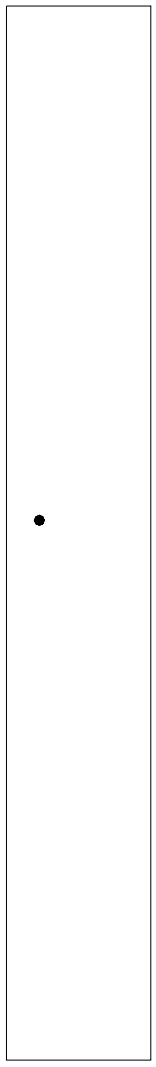
# Roof Corrective Action



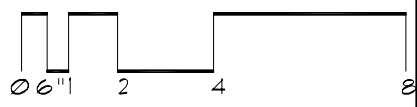
SYMBOLS KEY  
● ROOF DRAIN  
⊥ SCUPPER



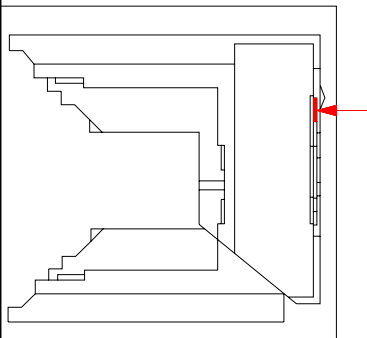
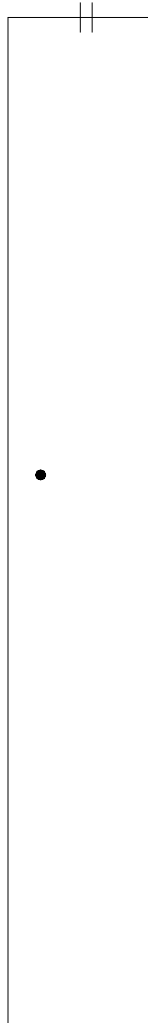
# Roof Corrective Action



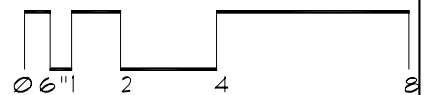
SYMBOLS KEY  
● ROOF DRAIN



# Roof Corrective Action

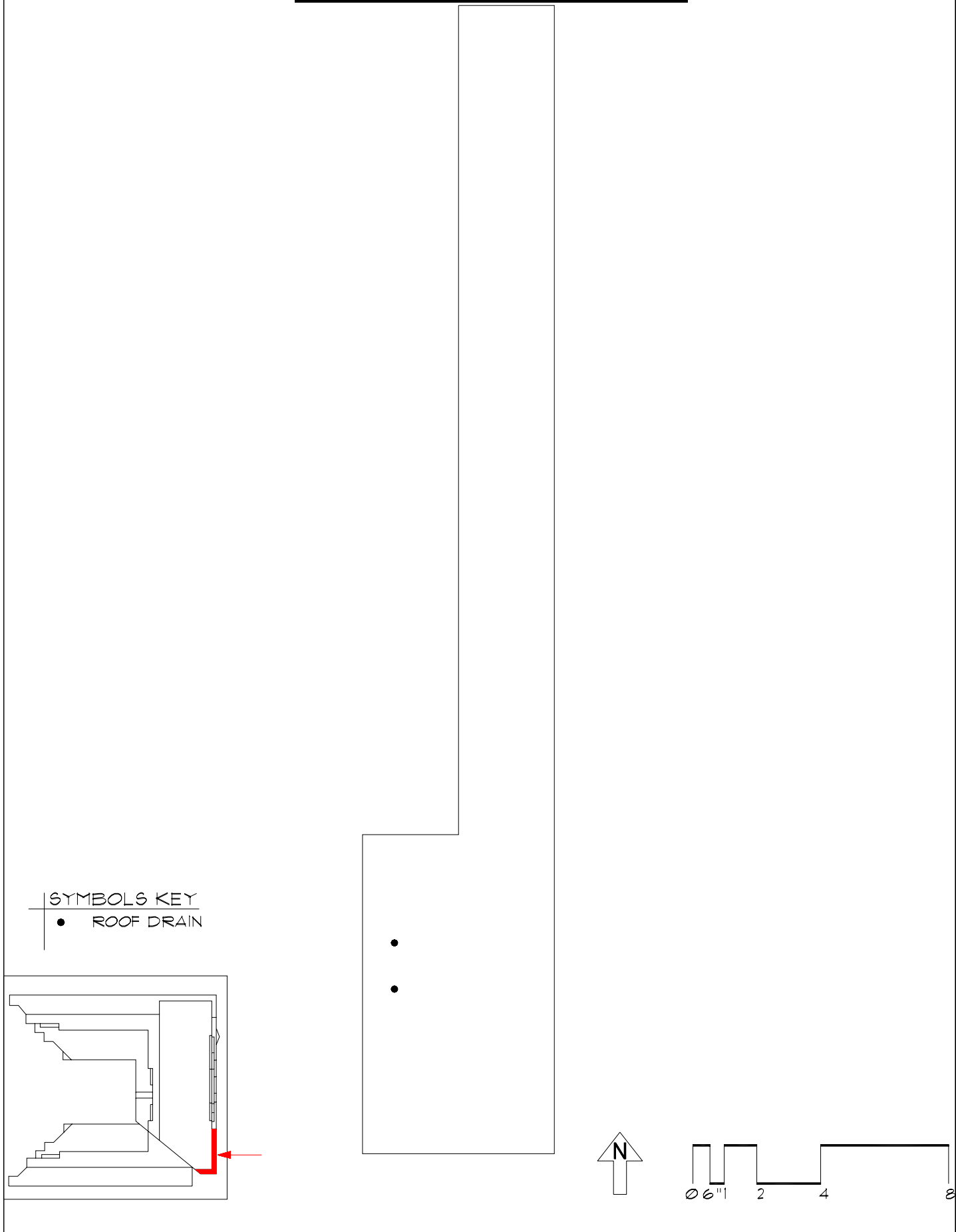


SYMBOLS KEY  
• ROOF DRAIN

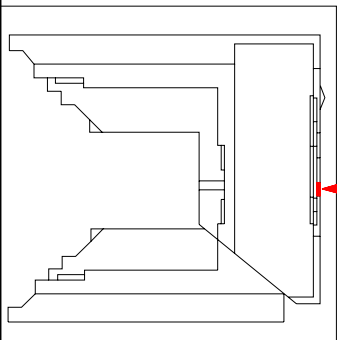
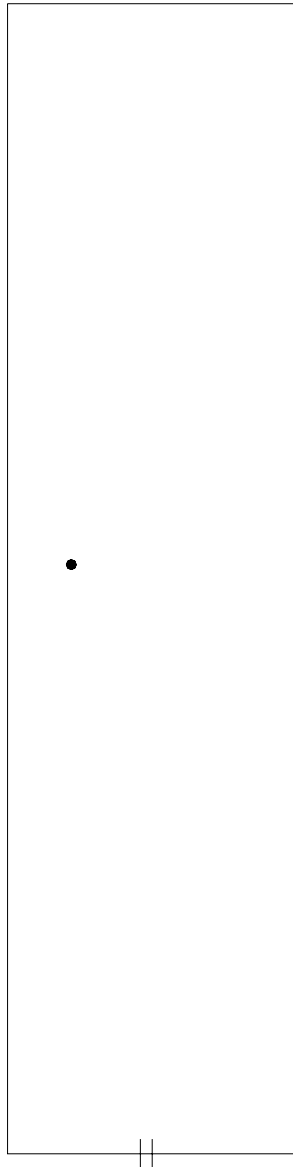




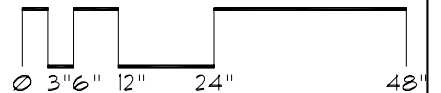
# Roof Corrective Action



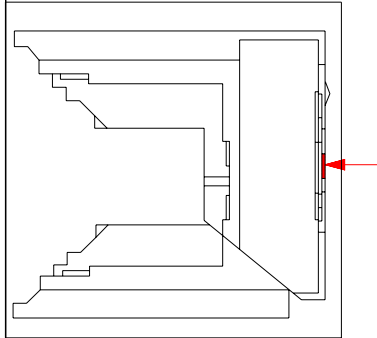
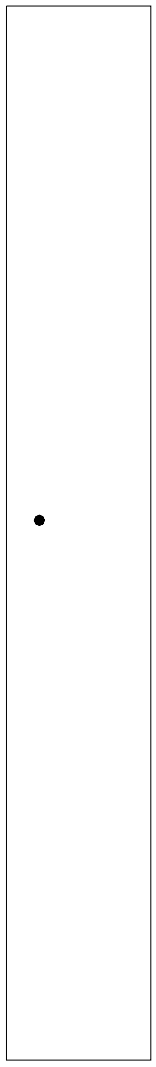
# Roof Corrective Action



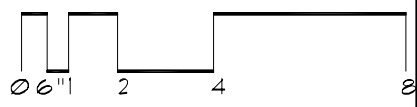
SYMBOLS KEY	
•	ROOF DRAIN
⊥	SCUPPER



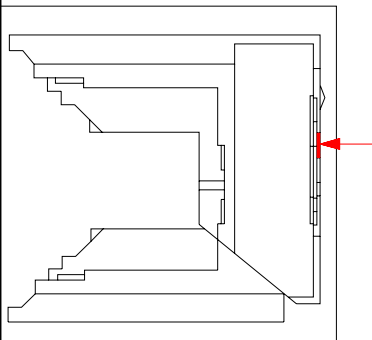
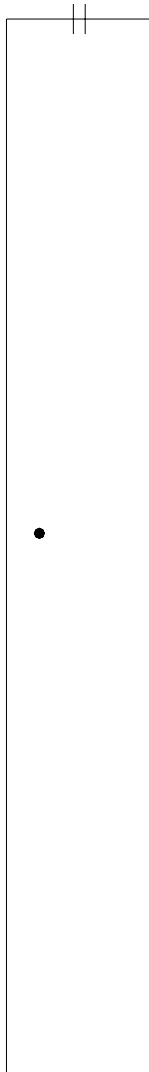
# Roof Corrective Action



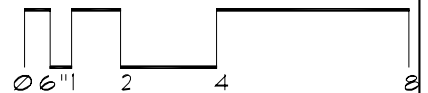
SYMBOLS KEY  
● ROOF DRAIN



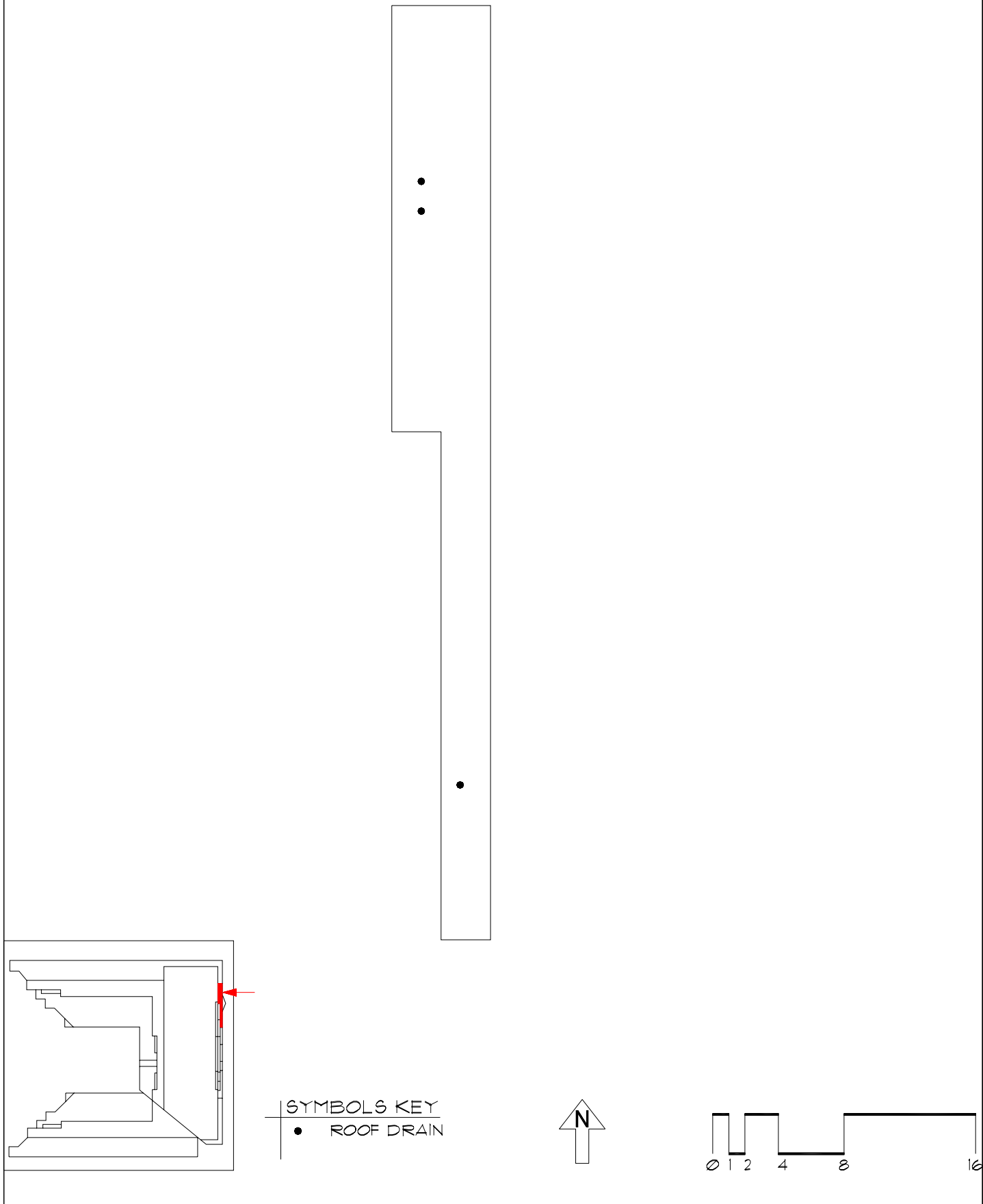
# Roof Corrective Action



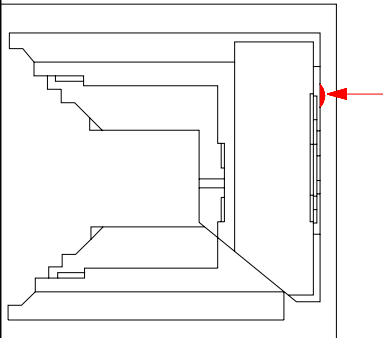
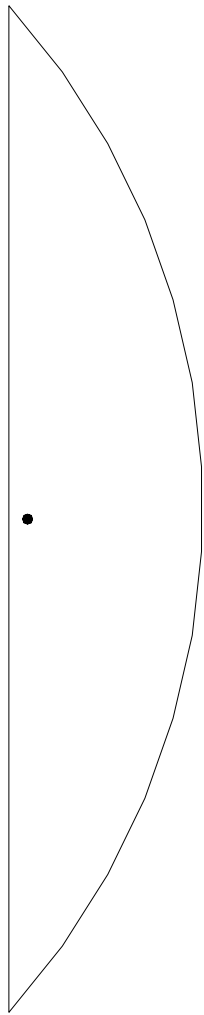
SYMBOLS KEY  
● ROOF DRAIN  
|| SCUPPER



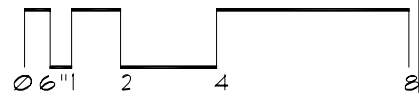
# Roof Corrective Action



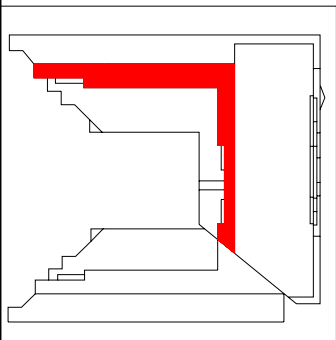
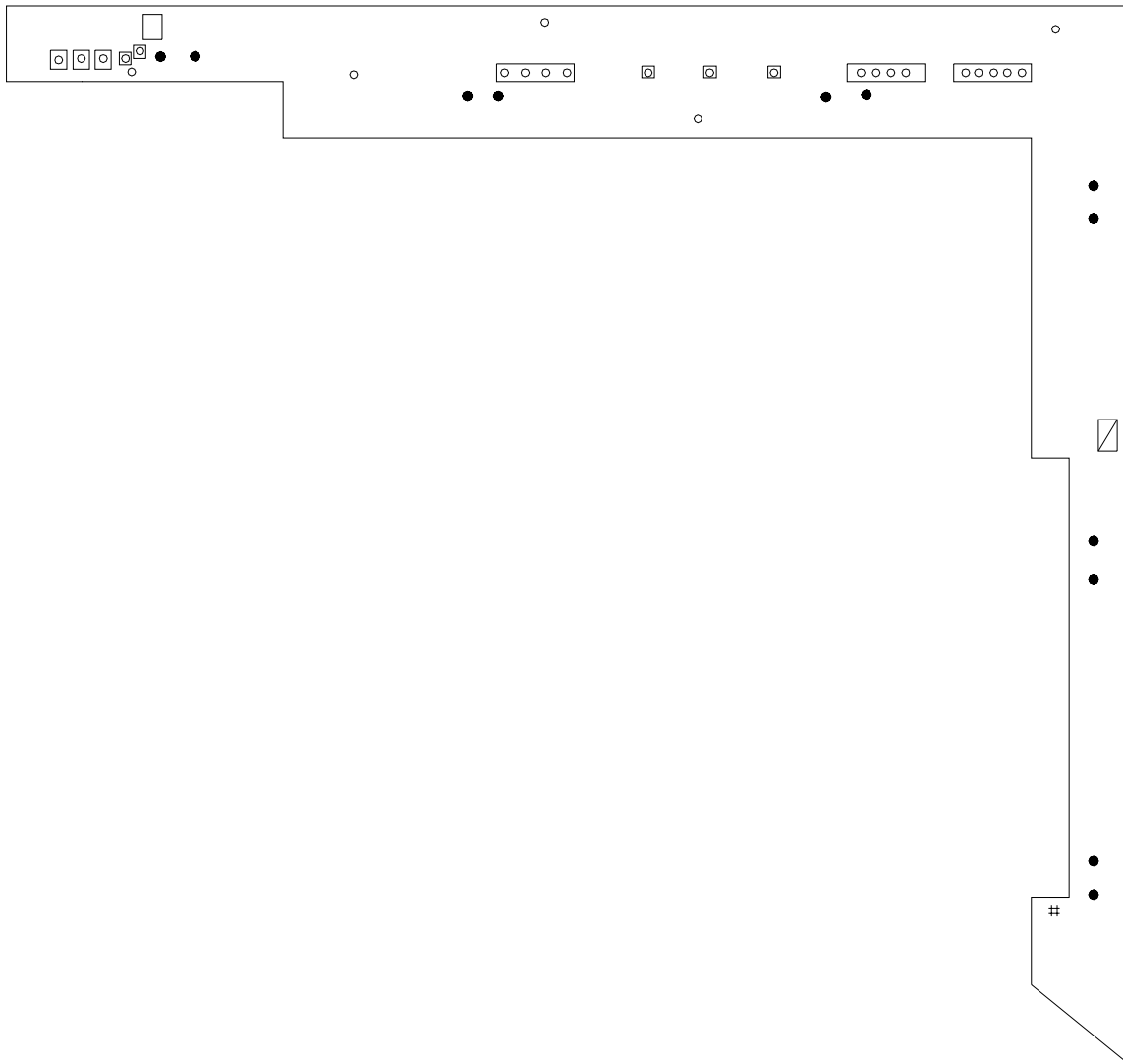
# Roof Corrective Action



SYMBOLS KEY  
● ROOF DRAIN

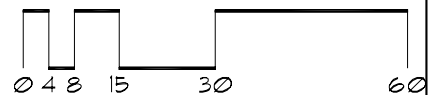


# Roof Corrective Action

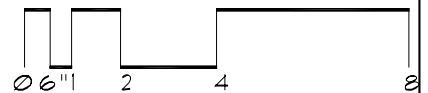
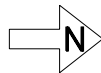
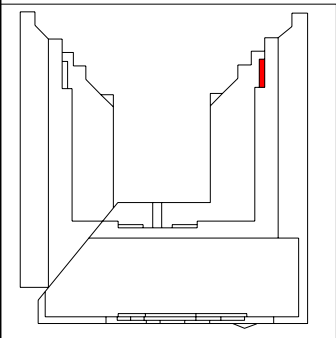
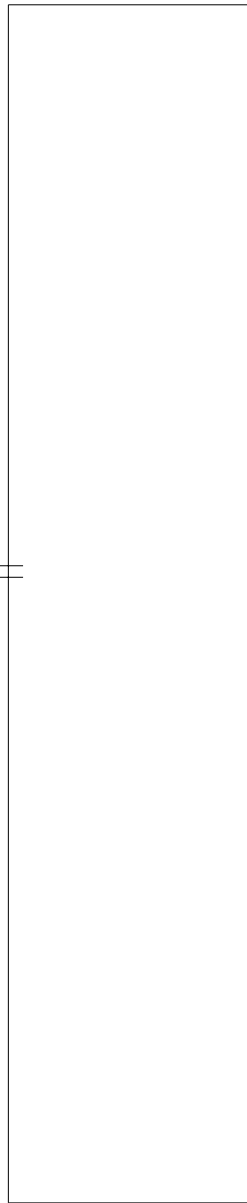


## SYMBOLS KEY

- ▣ ROOF CURB
- ROOF DRAIN
- VENT STACK
- # PITCH PAN
- ▣ ROOF HATCH
- ① DEFECT-REPAIR



# Roof Corrective Action



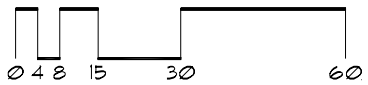
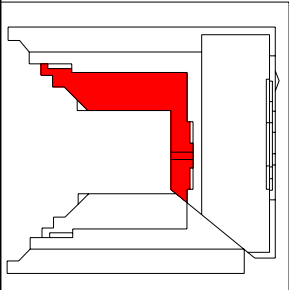


# Roof Corrective Action

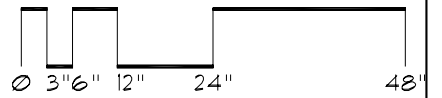
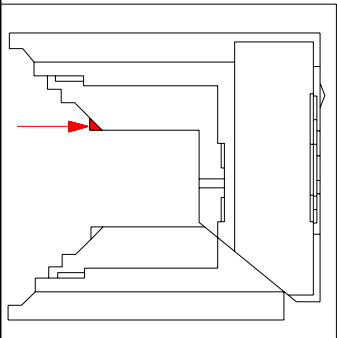
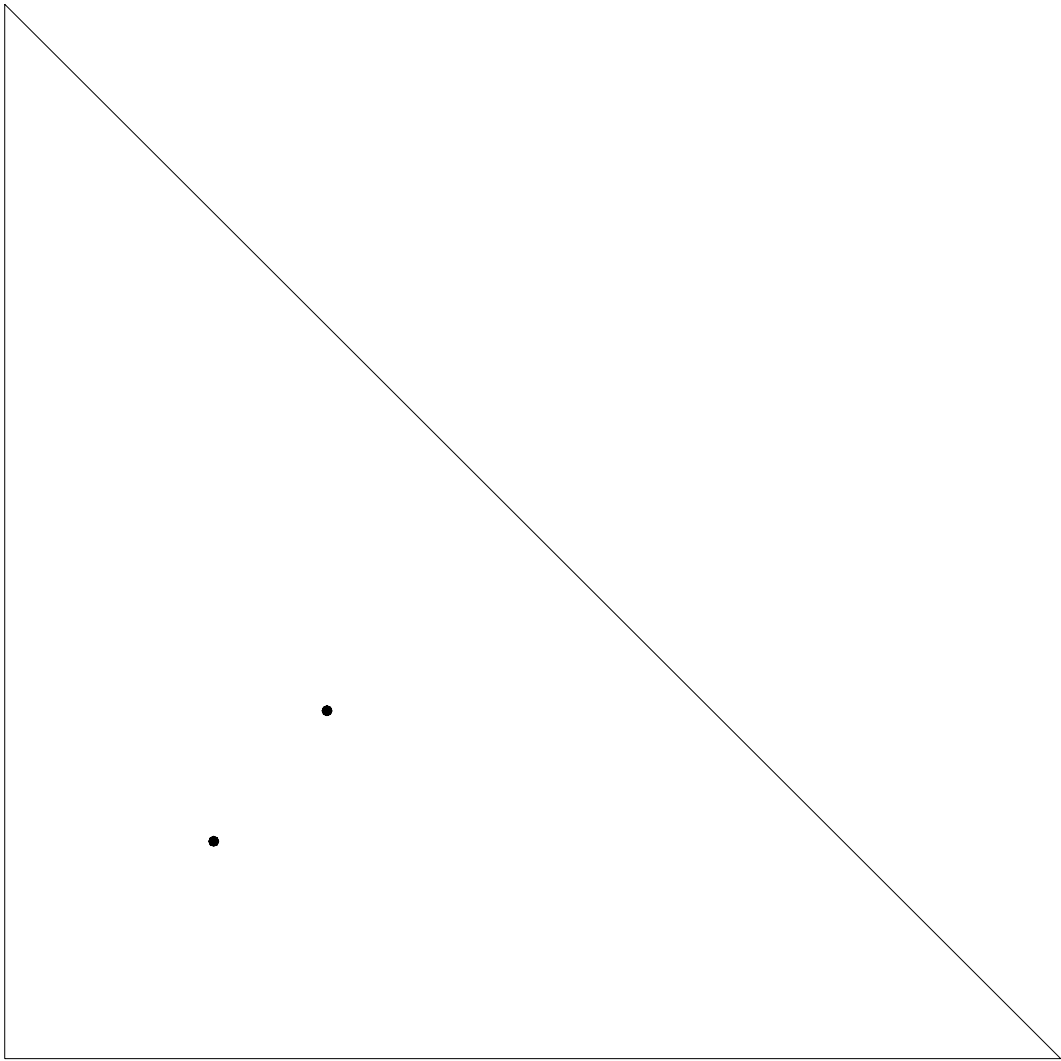


### SYMBOLS KEY

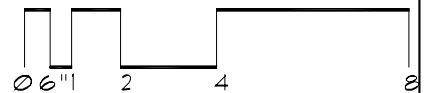
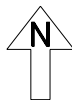
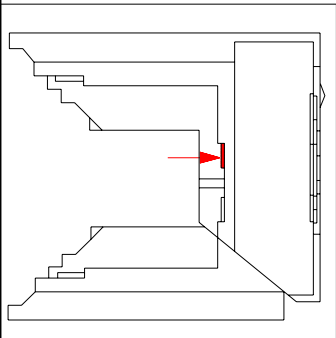
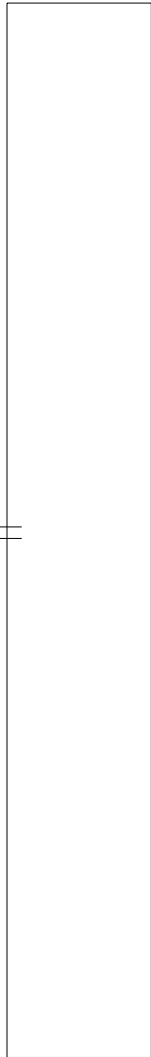
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ≡ SCUPPER
- # PITCH PAN
- Ⓢ DEFECT-REPAIR
- + FLASHED PENETRATION



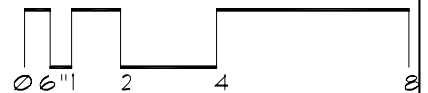
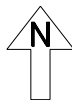
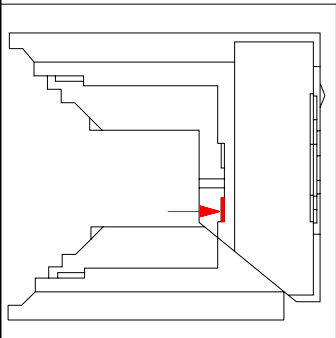
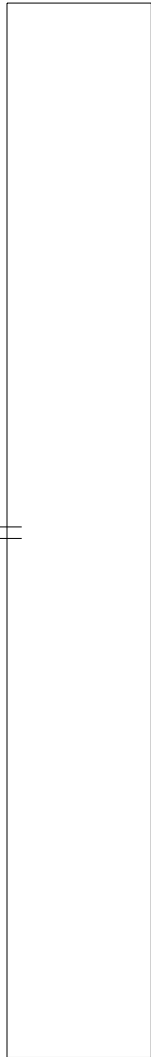
# Roof Corrective Action



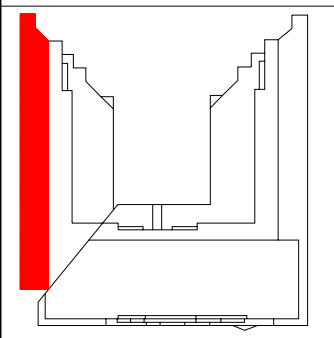
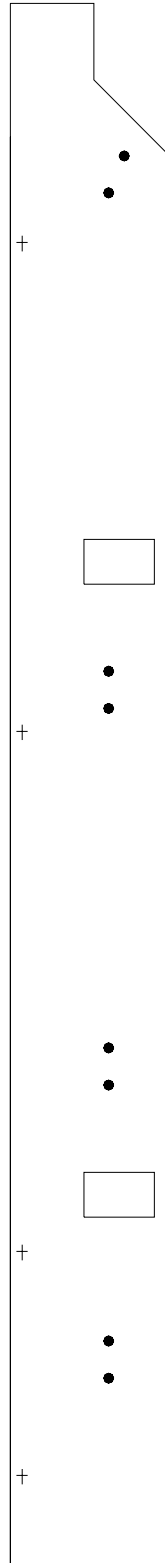
# Roof Corrective Action



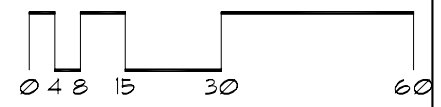
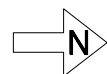
# Roof Corrective Action



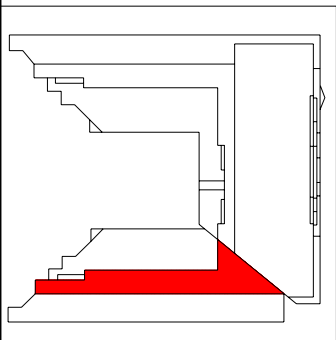
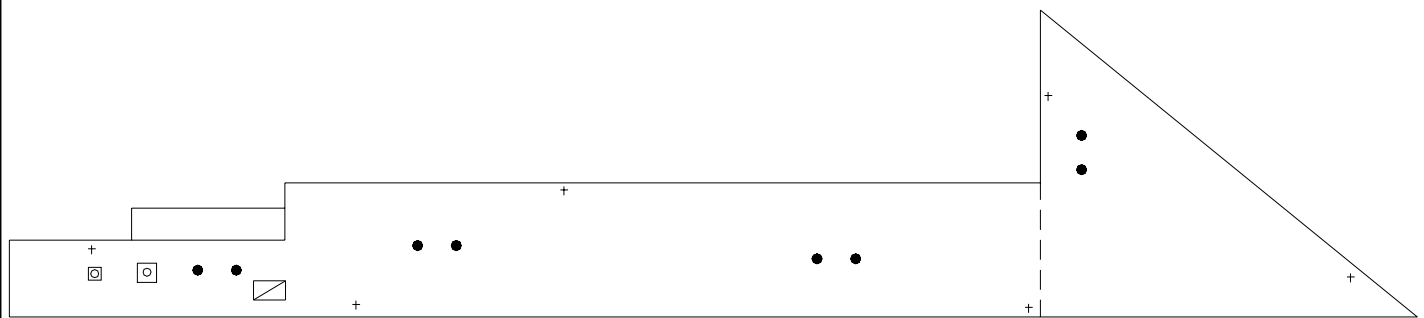
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - + FLASHED PENETRATION

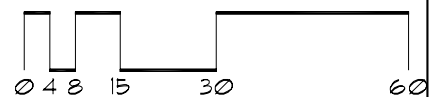


# Roof Corrective Action

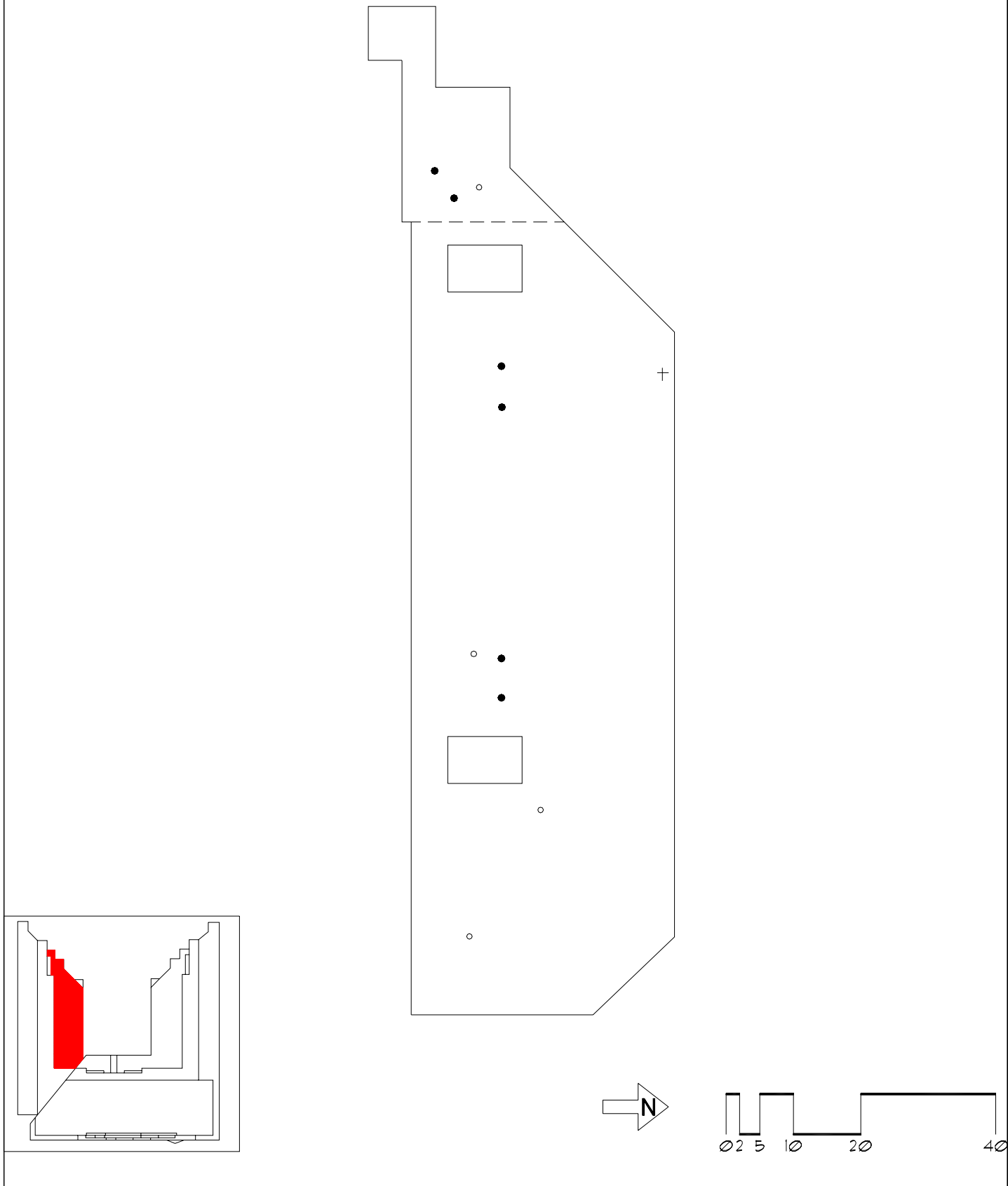


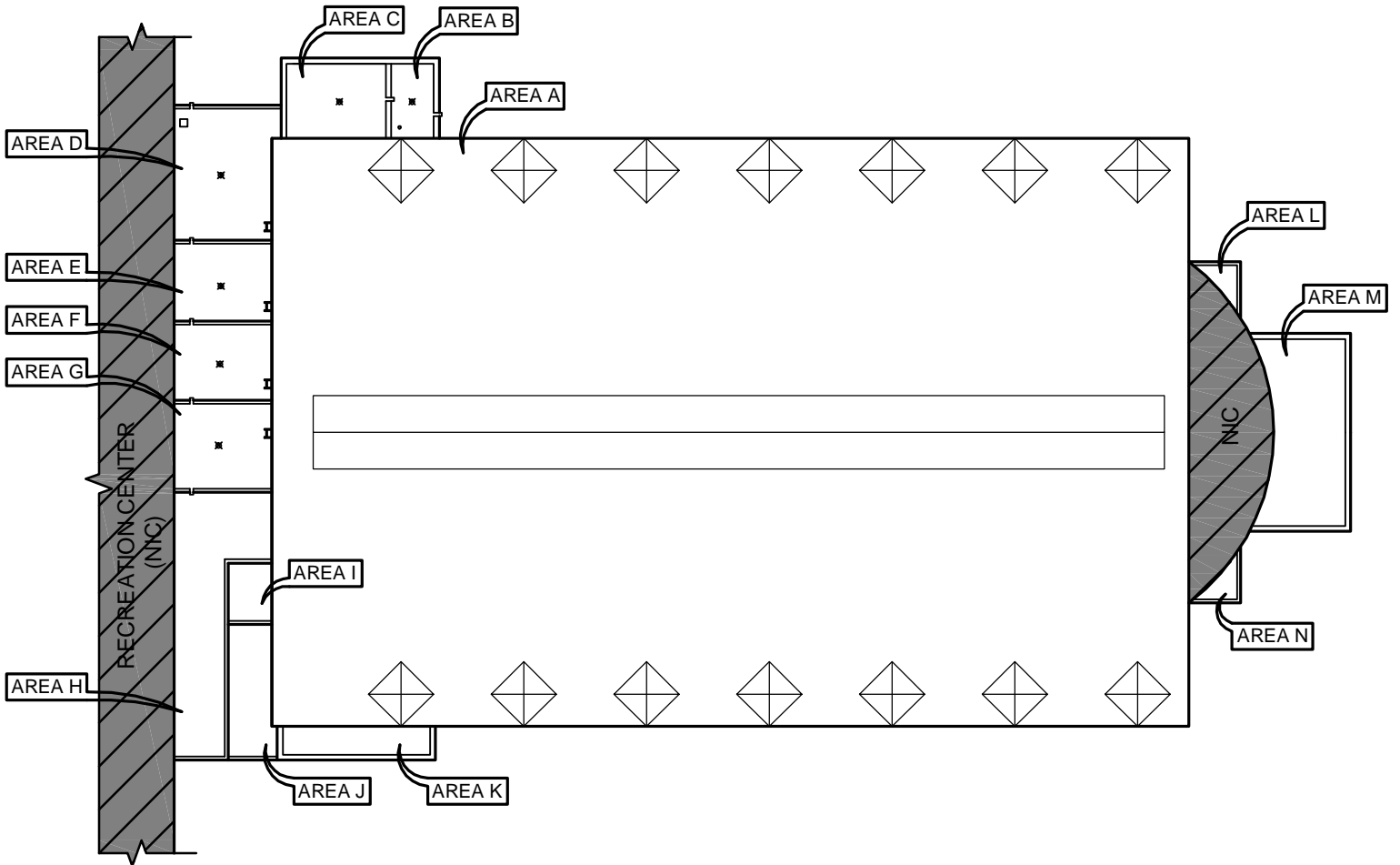
## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- + FLASHED PENETRATION
- ▣ ROOF HATCH
- Ⓜ DEFECT-REPAIR



# Roof Corrective Action













ROOF PLAN

SCALE: NONE

LEGEND

-  ROOF DRAIN
-  LADDER
-  SCUPPER
-  PIPE SUPPORT
-  VENT STACK
-  HEAT STACK
-  MECHANICAL CURB (SIZES VARY)
-  SKYLIGHT

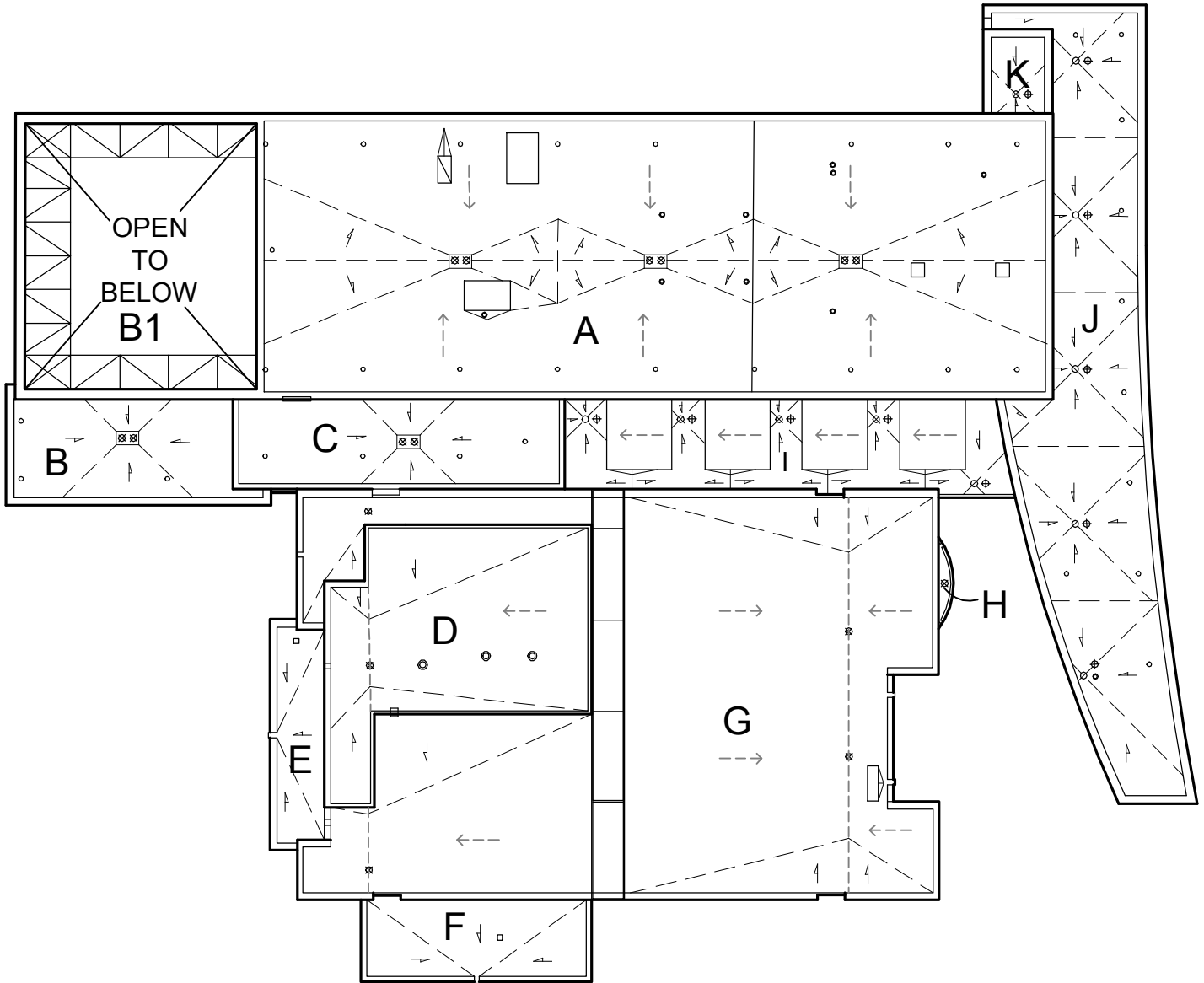




AREA A = 11,010 SQ. FT.  
AREA B = 1,200 SQ. FT.  
AREA B1 = 2,978 SQ. FT.  
AREA C = 1,443 SQ. FT.

AREA D = 2,561 SQ. FT.  
AREA E = 560 SQ. FT.  
AREA F = 913 SQ. FT.  
AREA G = 9,611 SQ. FT.

AREA H = 45 SQ. FT.  
AREA I = 1,940 SQ. FT.  
AREA J = 4,231 SQ. FT.  
AREA K = 282 SQ. FT.



KEY PLAN  
SCALE: NONE

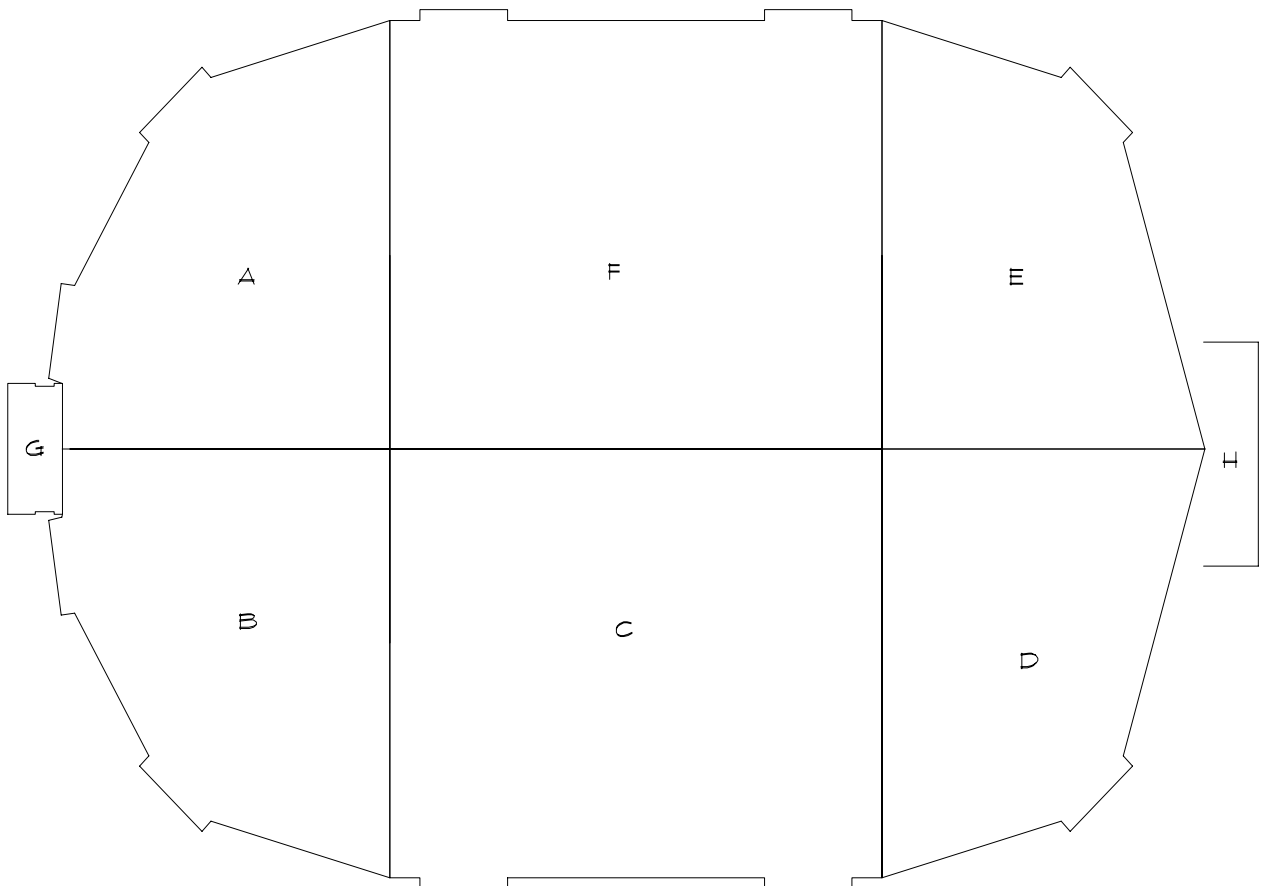


# Roof ID

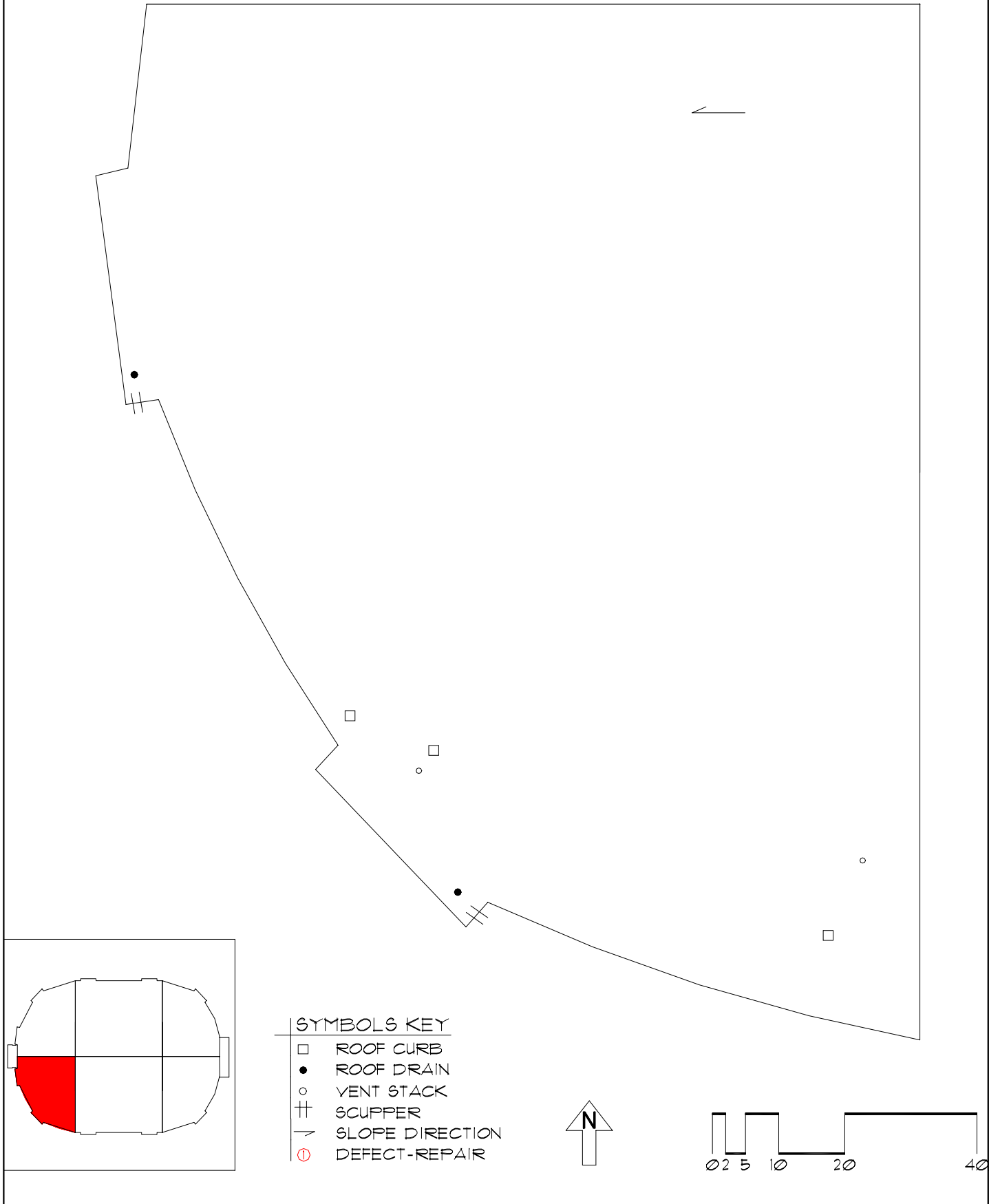
Building: 176 - Mariucci Arena - (1901 4th Street SE)

Total Area: 118,948 sf

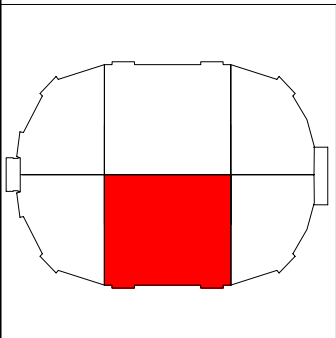
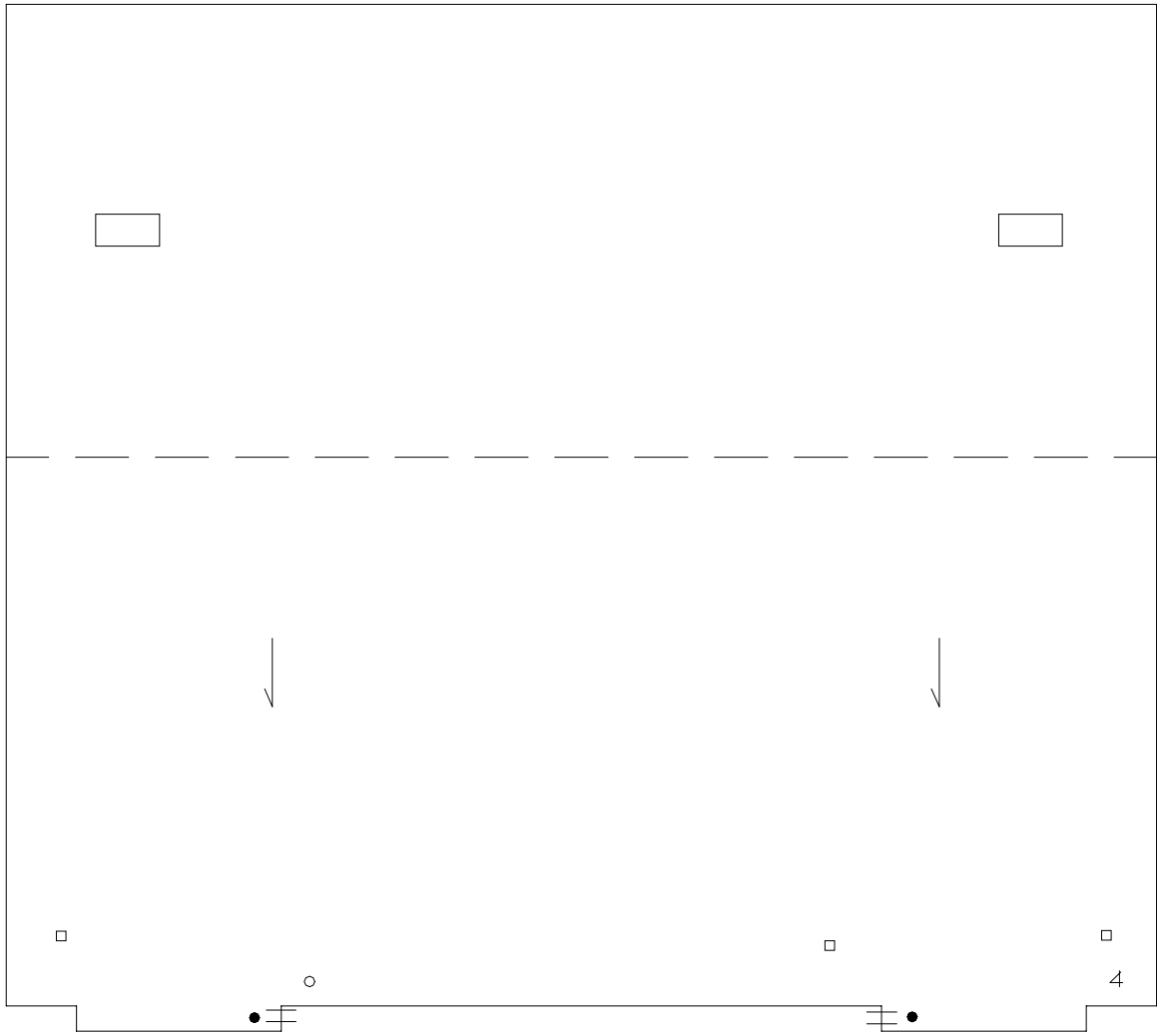
<u>A</u>	<u>15,420 sf</u>	<u>F</u>	<u>28,516 sf</u>
<u>B</u>	<u>15,420 sf</u>	<u>G</u>	<u>946 sf</u>
<u>C</u>	<u>28,516 sf</u>	<u>H</u>	<u>1,640 sf</u>
<u>D</u>	<u>14,245 sf</u>		
<u>E</u>	<u>14,245 sf</u>		



# Roof Corrective Action

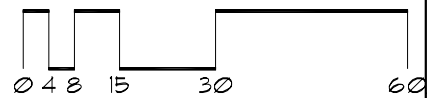


# Roof Corrective Action

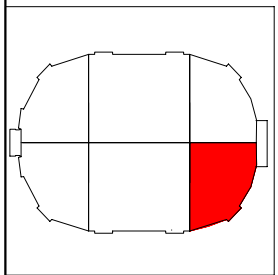
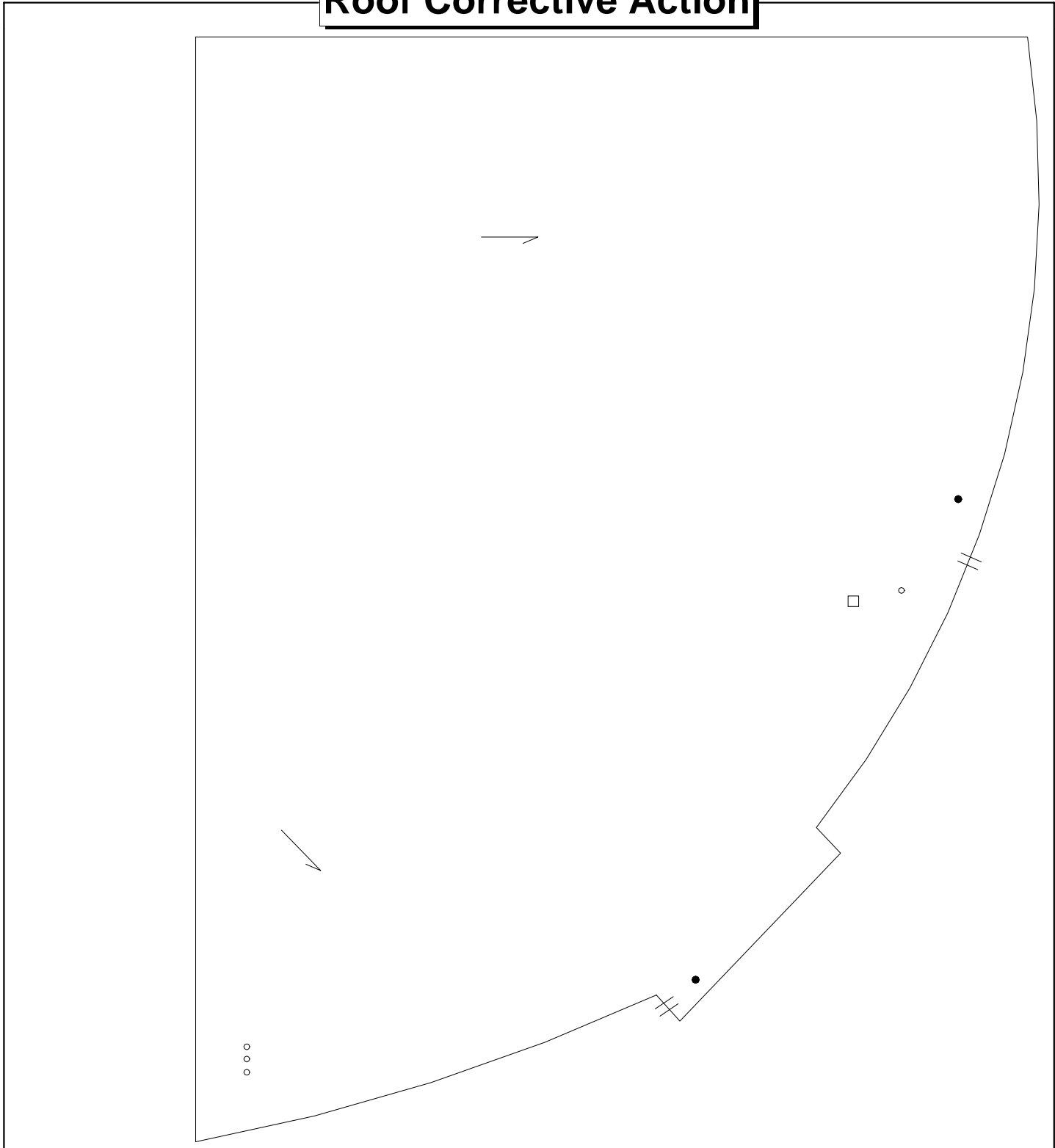


## SYMBOLS KEY

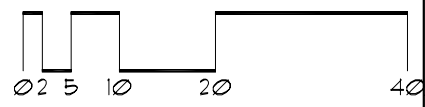
- ROOF CURB
- ROOF DRAIN
- ⊥ SCUPPER
- SLOPE DIRECTION
- ⊖ DEFECT-NO REPAIR
- ⊕ DEFECT-REPAIR



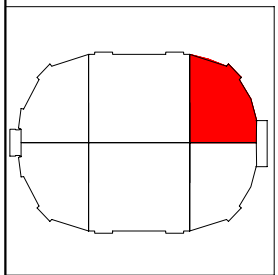
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ≡ SCUPPER
  - SLOPE DIRECTION
  - Ⓡ DEFECT-REPAIR

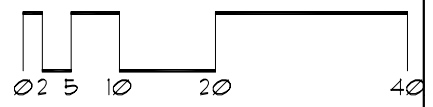
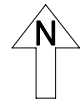


# Roof Corrective Action

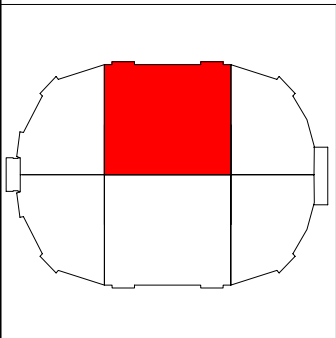
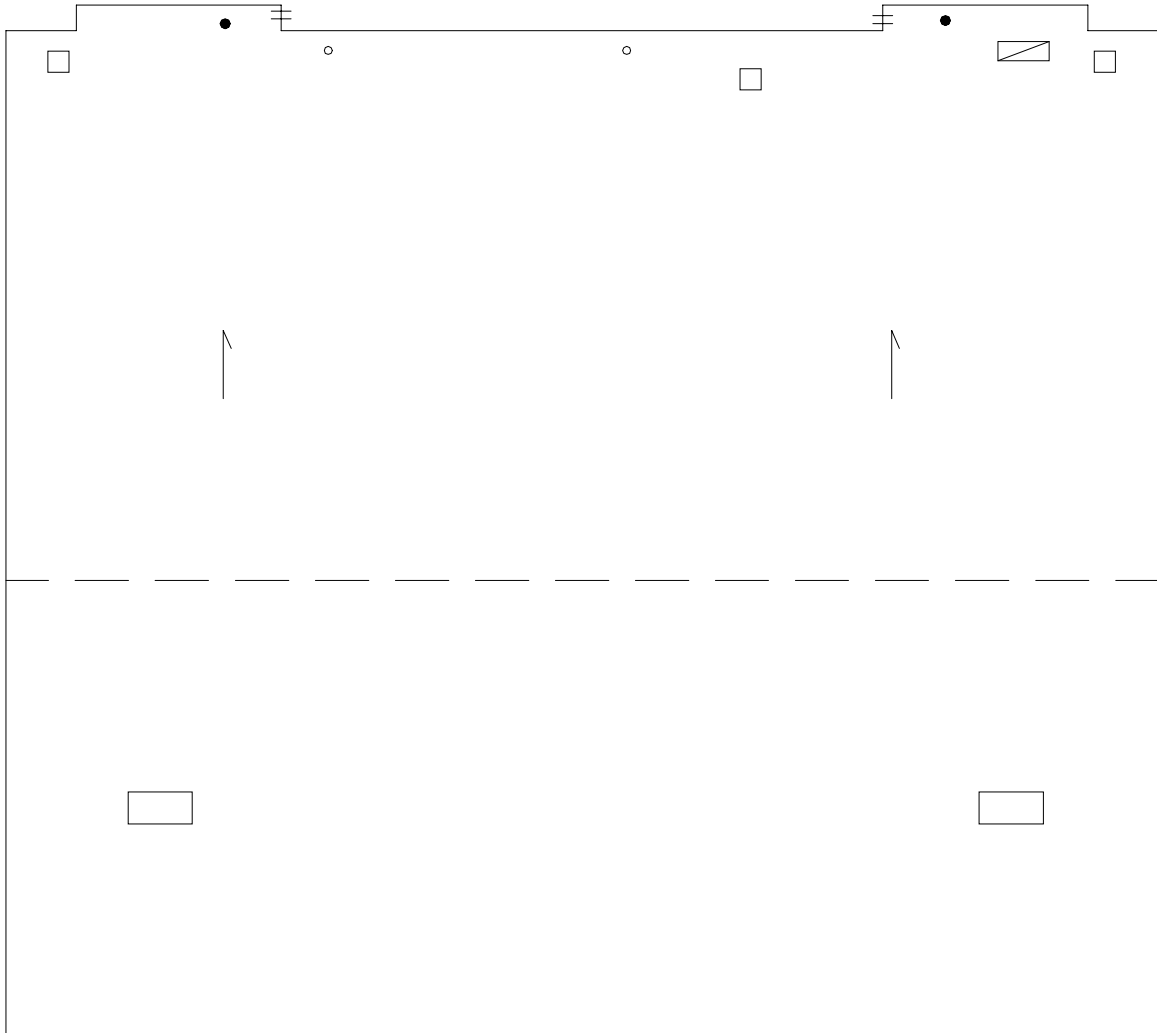


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- || SCUPPER
- Ⓢ DEFECT-REPAIR

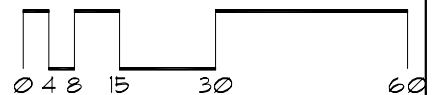


# Roof Corrective Action

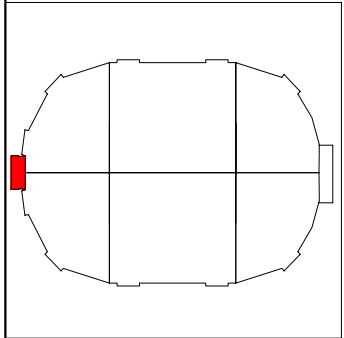
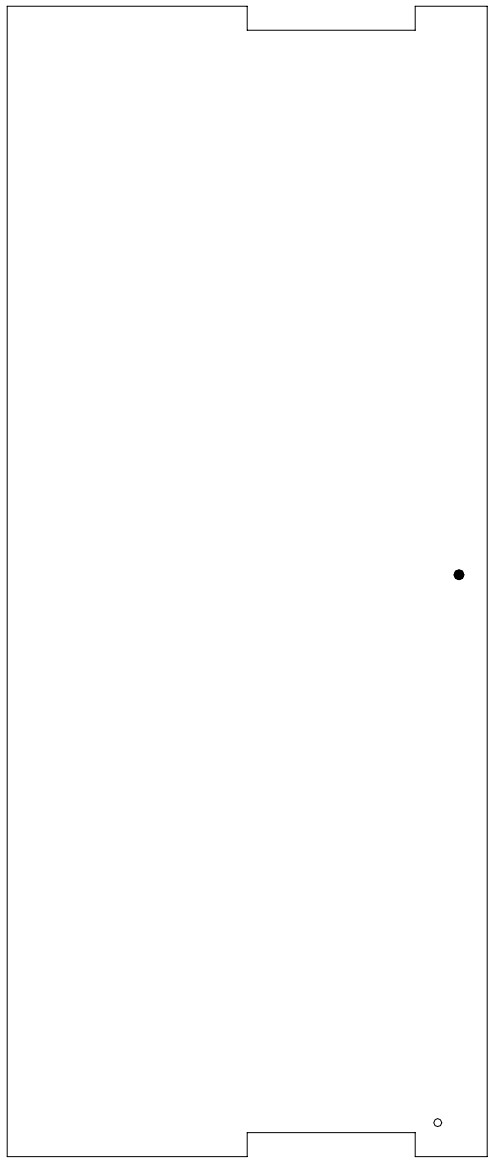


## SYMBOLS KEY

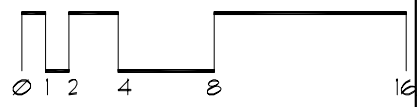
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- ▧ ROOF HATCH
- ↗ SLOPE DIRECTION
- Ⓡ DEFECT-REPAIR



# Roof Corrective Action

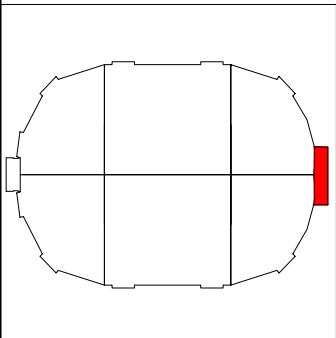
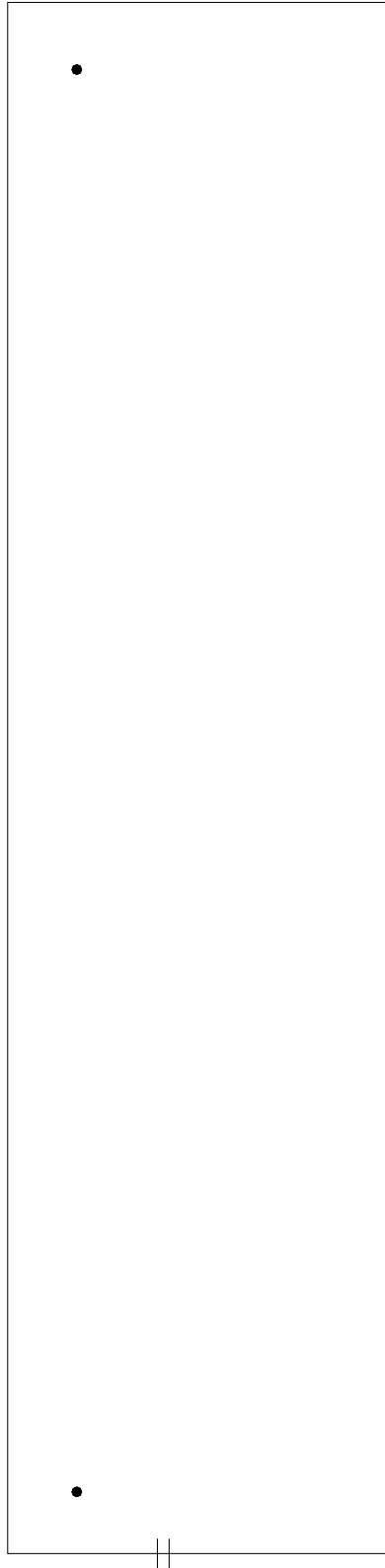


SYMBOLS KEY  
● ROOF DRAIN  
○ VENT STACK

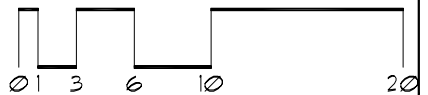




# Roof Corrective Action



- SYMBOLS KEY**
- ROOF DRAIN
  - || SCUPPER
  - ⊖ DEFECT-REPAIR



A = 3,410 sf

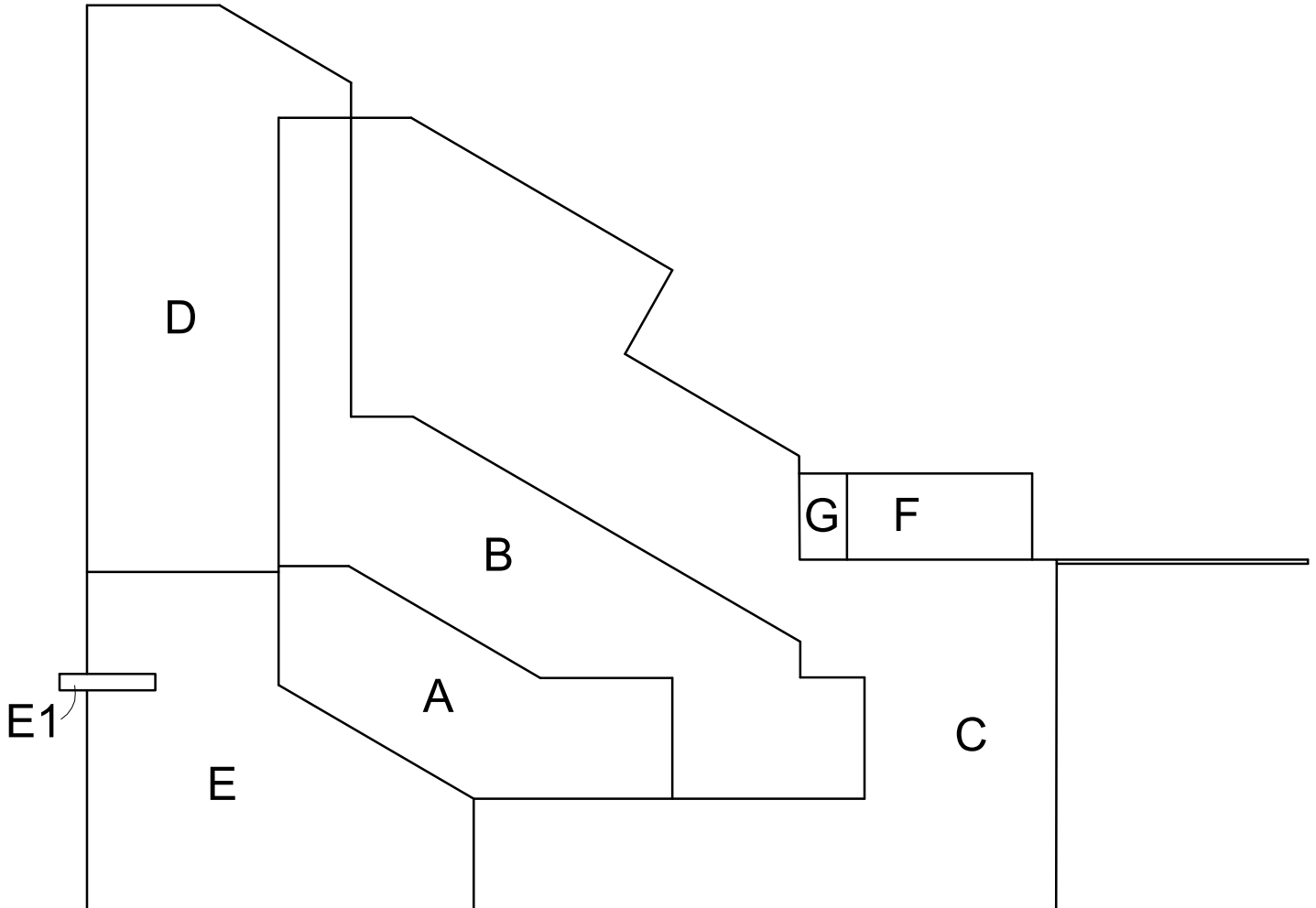
B = 7,395 sf

C = 14,628 sf

D = 6,928 sf

E = 6,092 sf

F = 1,248 sf



KEY PLAN

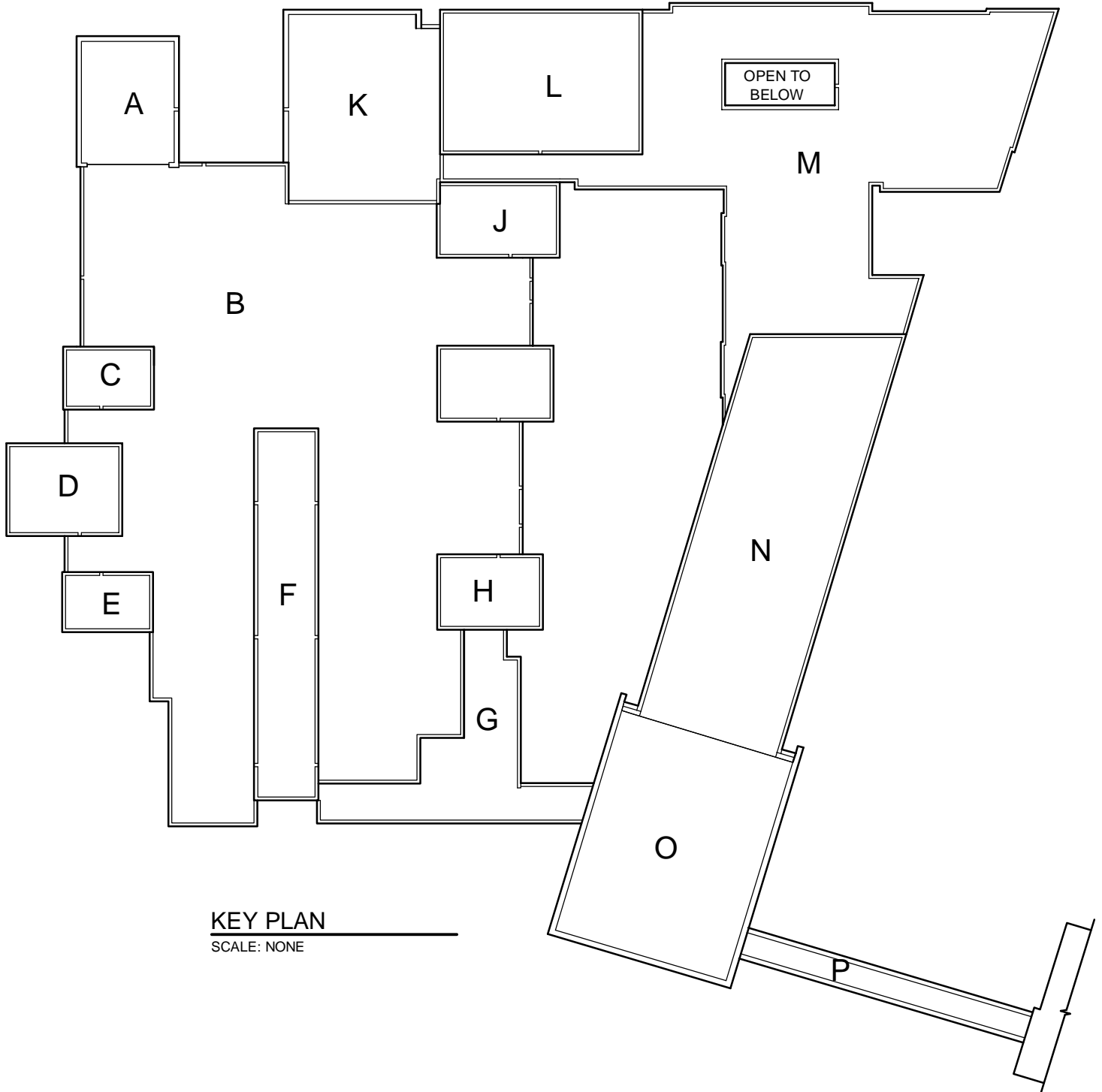
SCALE: NONE



AREA A = 2,069 SQ. FT.  
AREA B = 30,205 SQ. FT.  
AREA C = 881 SQ. FT.  
AREA D = 1,213 SQ. FT.  
AREA E = 885 SQ. FT.  
AREA F = 3,680 SQ. FT.

AREA G = 3,254 SQ. FT.  
AREA H = 1,279 SQ. FT.  
AREA I = 1,396 SQ. FT.  
AREA J = 1,396 SQ. FT.  
AREA K = 4,634 SQ. FT.  
AREA L = 4,508 SQ. FT.

AREA M = 15,144 SQ. FT.  
AREA N = 9,716 SQ. FT.  
AREA O = 6,891 SQ. FT.  
AREA P = 1,452 SQ. FT.



KEY PLAN  
SCALE: NONE



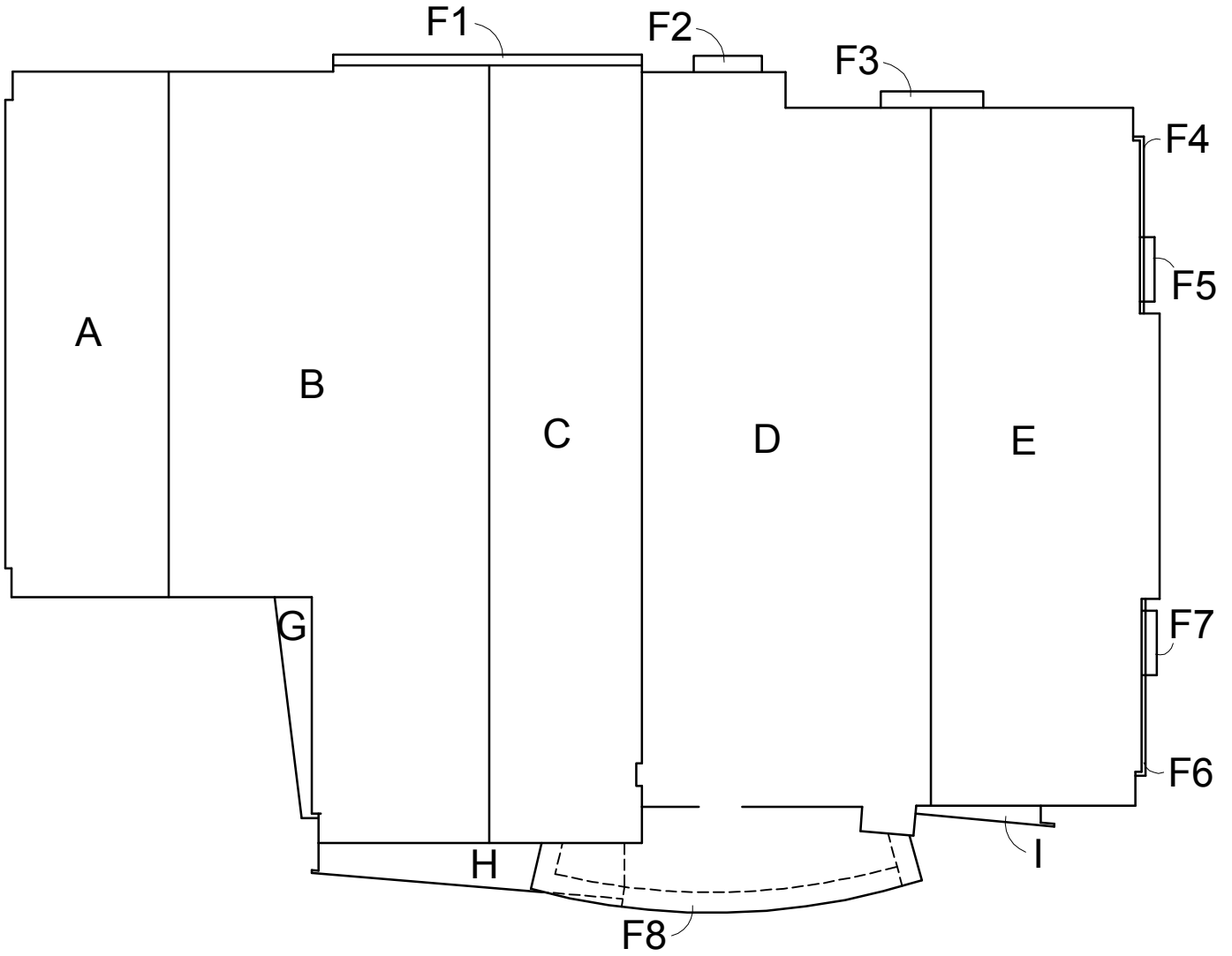
A = 13,261 sf  
B = 32,928 sf

C = 18,672 sf  
D = 37,138 sf

E = 23,422 sf  
F = 174 sf

G = 825 sf  
H = 1,814 sf

I = 268 sf



KEY PLAN  
SCALE: NONE



A = 21,166 sf

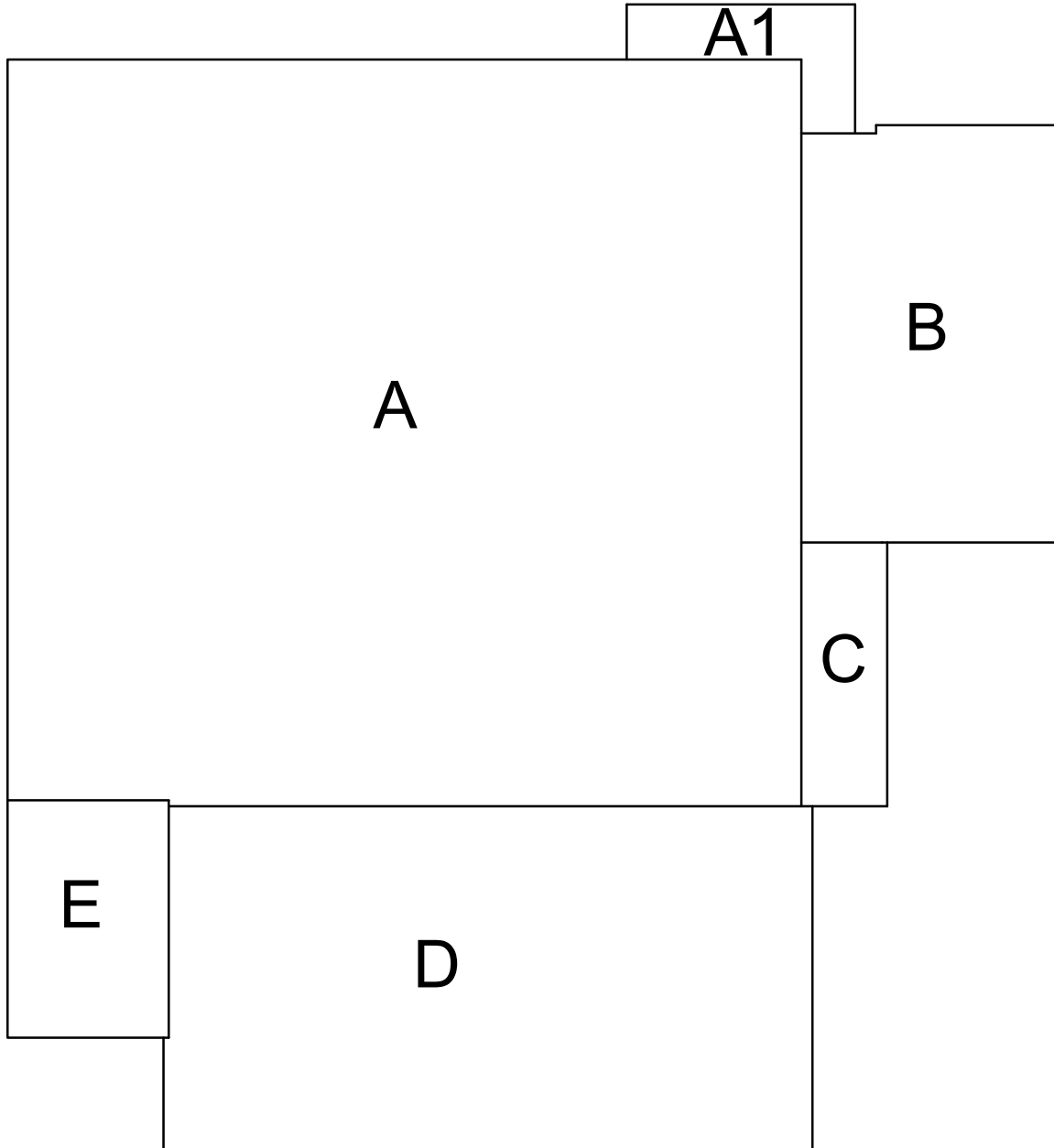
A1 = 3,834 sf

B = 3,834 sf

C = 807 sf

D = 7,971 sf

E = 1,365 sf



KEY PLAN  
SCALE: NONE

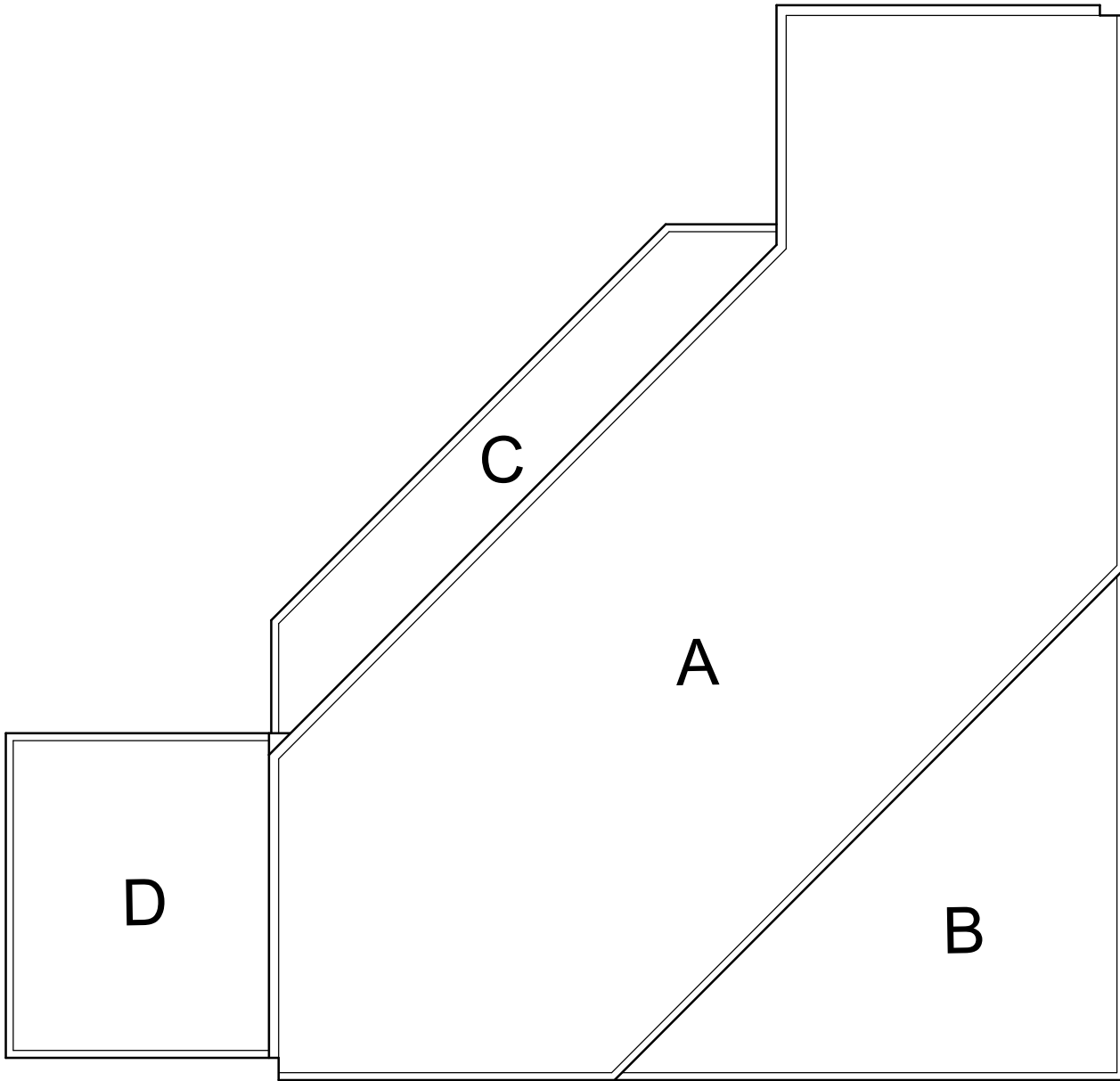


A = 2,466 sf

B = 599 sf

C = 276 sf

D = 392 sf



KEY PLAN

SCALE: NONE

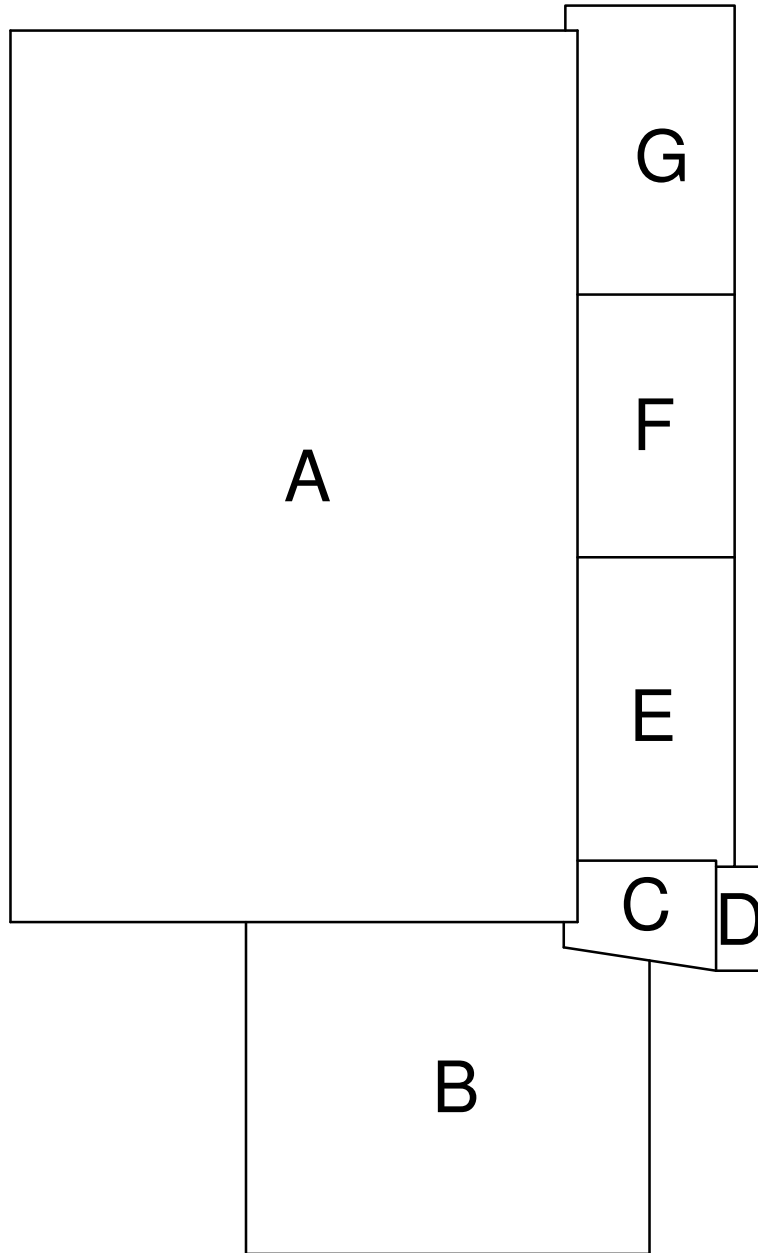


A = 6,090 sf

B = 1,581 sf

C = 170 sf

D = 1,626 sf



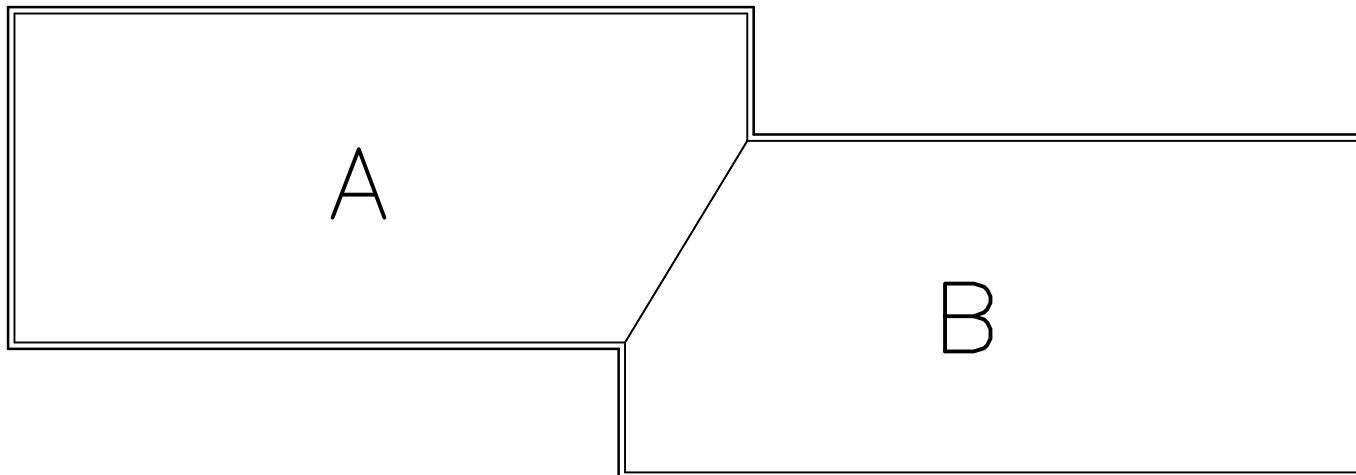
KEY PLAN

SCALE: NONE



AREA A = 12,669 SQ. FT.

AREA B = 12,669 SQ. FT.



**KEY PLAN**

SCALE: NONE

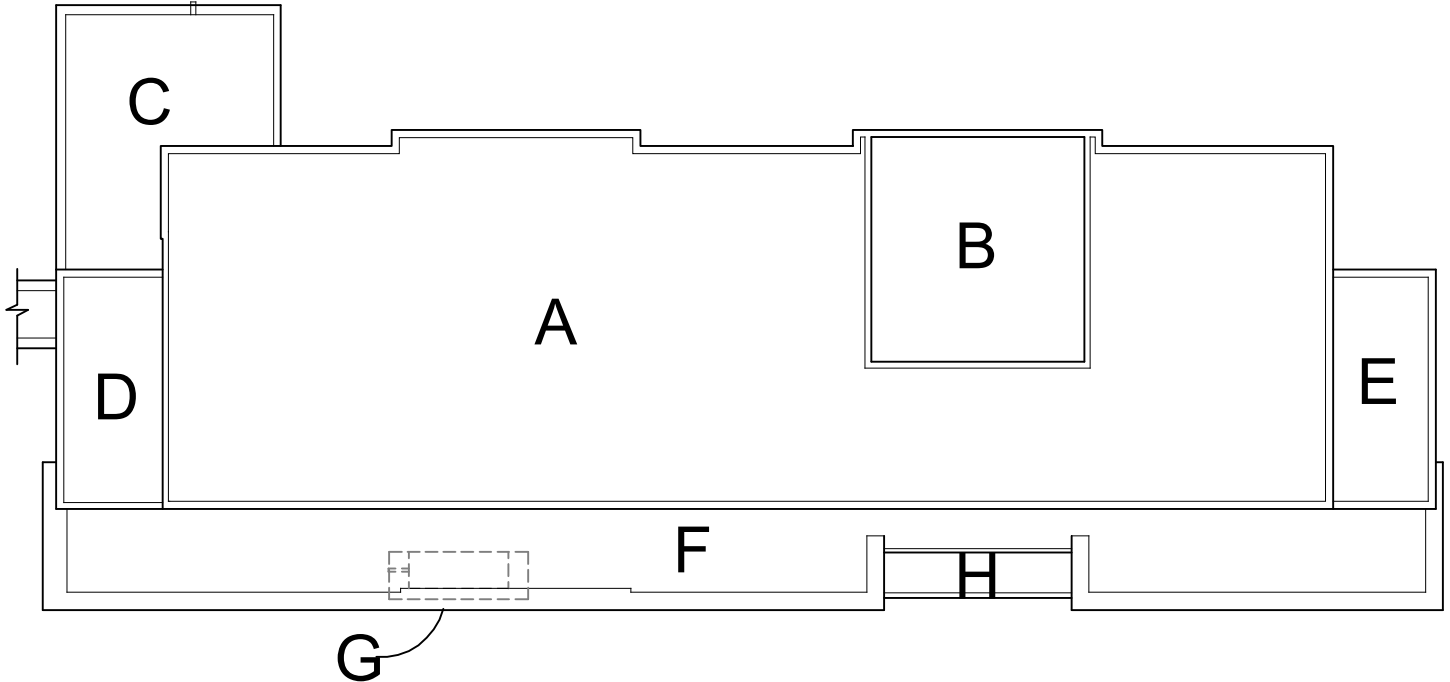




AREA A = 12,916 SQ. FT.  
AREA B = 1,830 SQ. FT.  
AREA C = 1,524 SQ. FT.

AREA D = 865 SQ. FT.  
AREA E = 837 SQ. FT.  
AREA F = 4,483 SQ. FT.

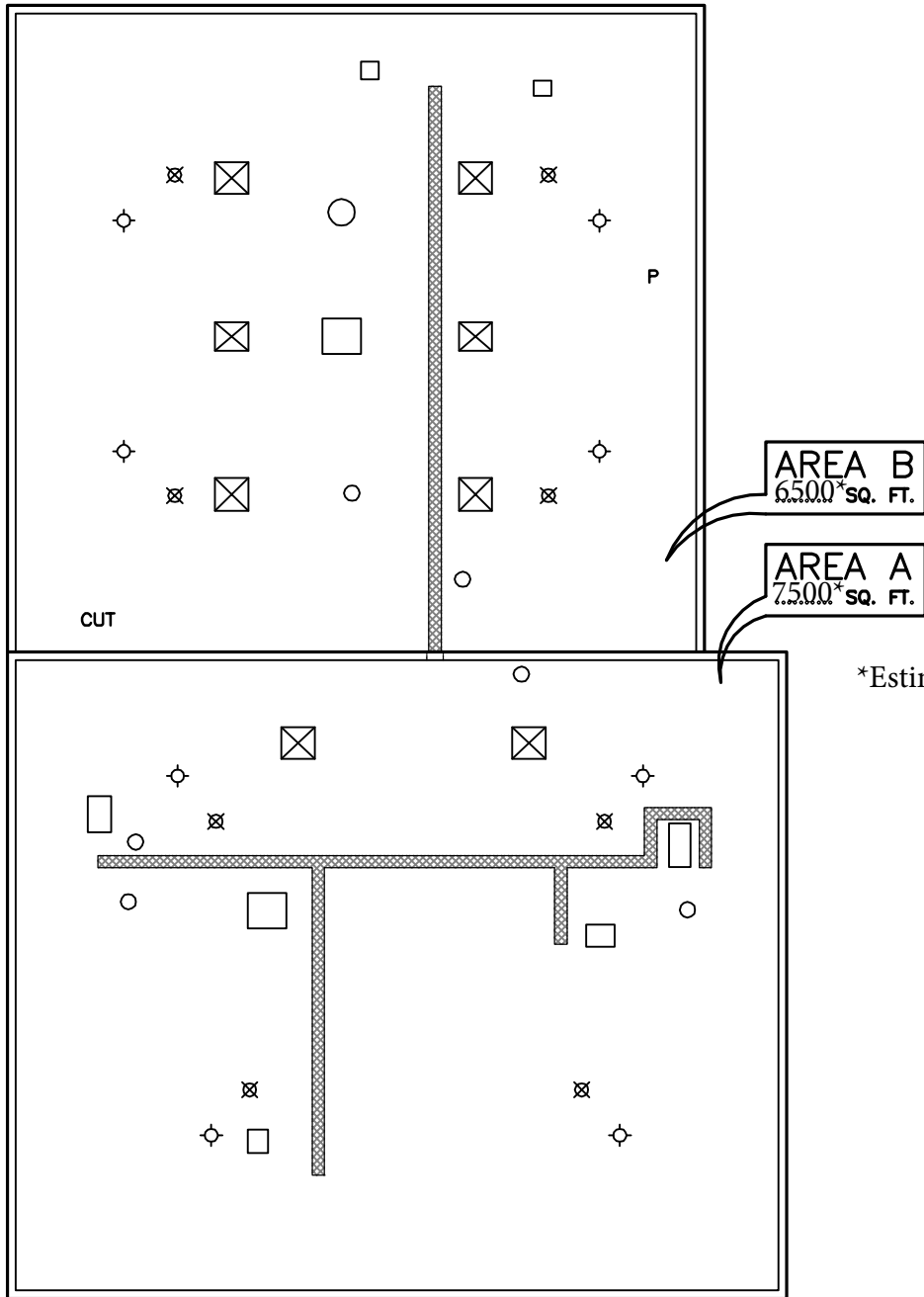
AREA G = 229 SQ. FT.  
AREA H = 283 SQ. FT.



KEY PLAN  
SCALE: NONE

LEGEND





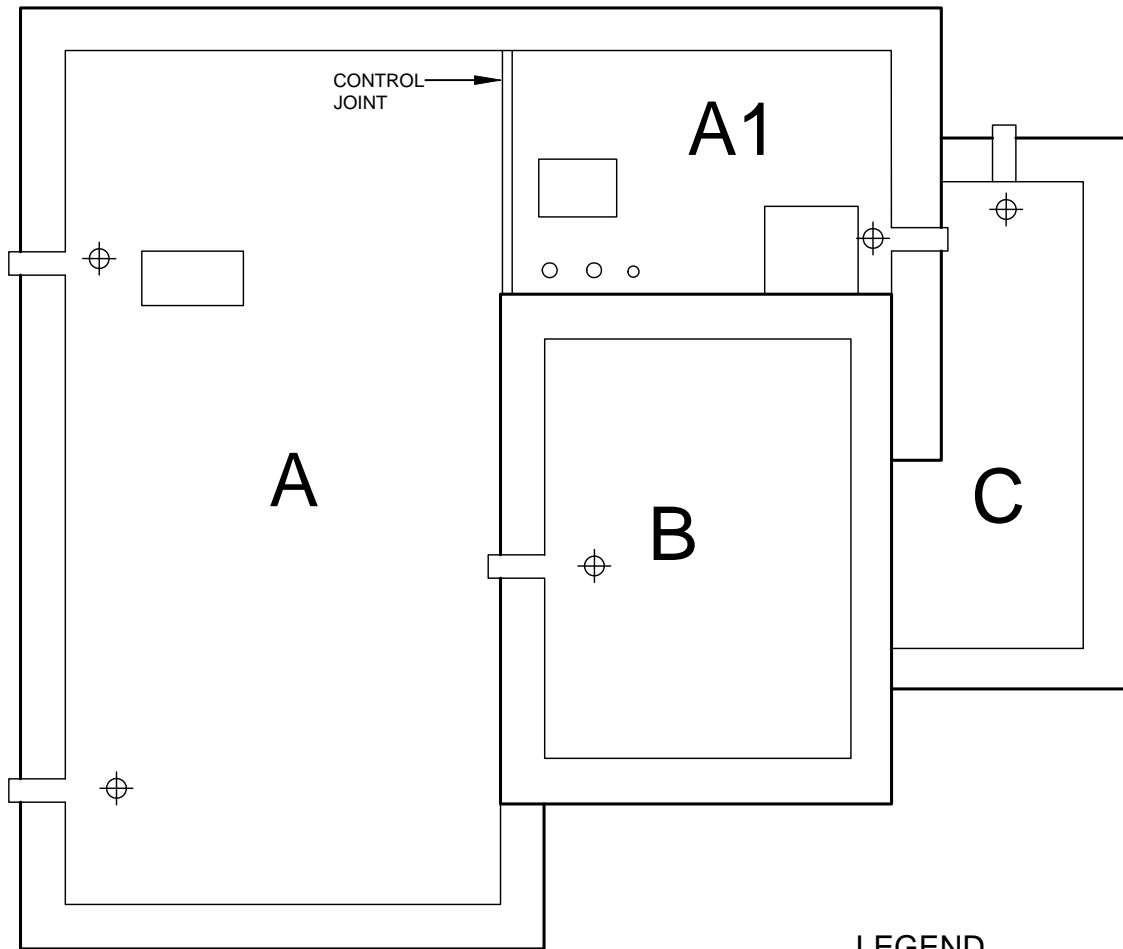
**LEGEND**

- ⊗ ROOF DRAIN
- OVERFLOW ROOF DRAIN
- ACCESS DOOR
- PIPE SUPPORT
- ▨ WALKWAY PADS
- VENT STACK
- ⊙ HEAT STACK
- MECHANICAL CURB (SIZES VARY)
- ⊠ SKYLIGHT

**ROOF PLAN**

SCALE: NONE





**ROOF PLAN**  
SCALE: NONE

**LEGEND**

- ⊗ ROOF DRAIN
- ≡ SCUPPER
- PIPE PENETRATION
- MECHNCAL CURB (SIZES VARY)



# Roof ID

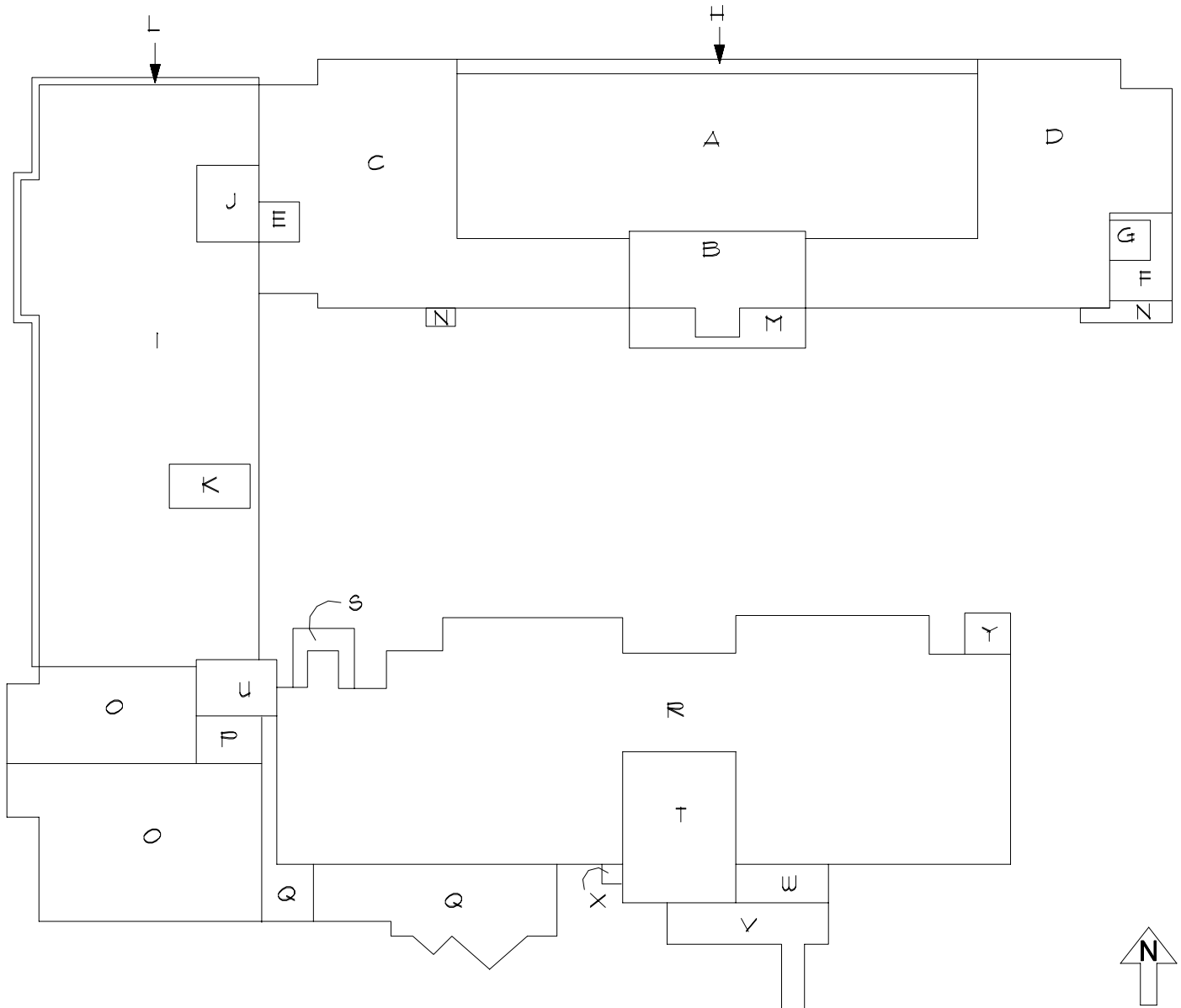
**Building:** EB265 - Mechanical Engineering - (111 Church Street SE Minneapolis)

**Roof Access:** Center stairs to room 570.

Note: I.R scan was completed. No heat variations conducive to wet insulation were observed.

**Total Area:** 46,251 sf

A	6,294	E	121	I	8,984	M	432	Q	1,544	U	462
B	1,104	F	287	J	357	N	174	R	10,123	V	1,084
C	4,268	G	121	K	264	O	3,590	S	298	W	220
D	3,943	H	568	L	462	P	218	T	1,223	X	65



# Roof ID

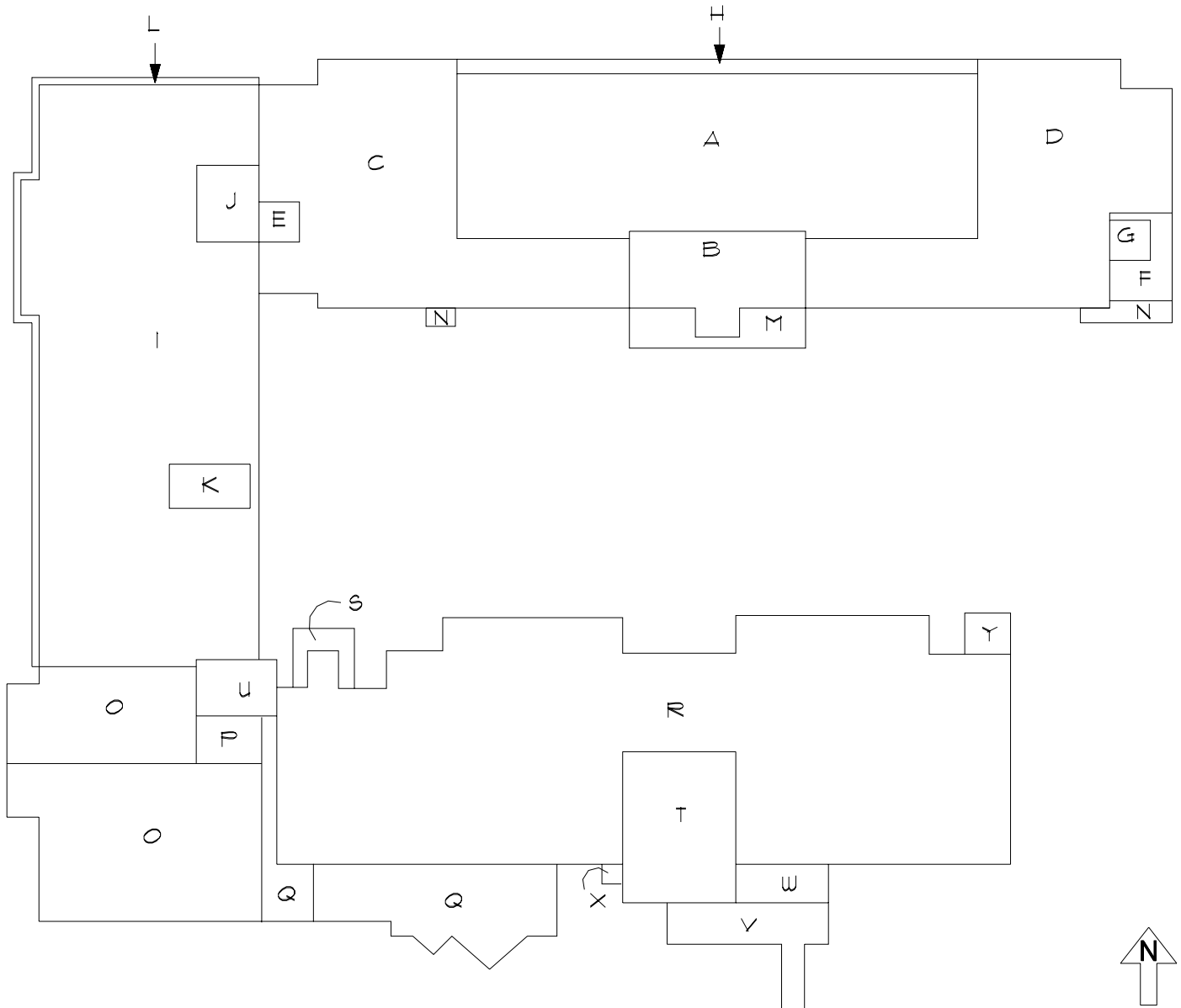
**Building:** EB265 - Mechanical Engineering - (111 Church Street SE Minneapolis)

**Roof Access:** Center stairs to room 570.

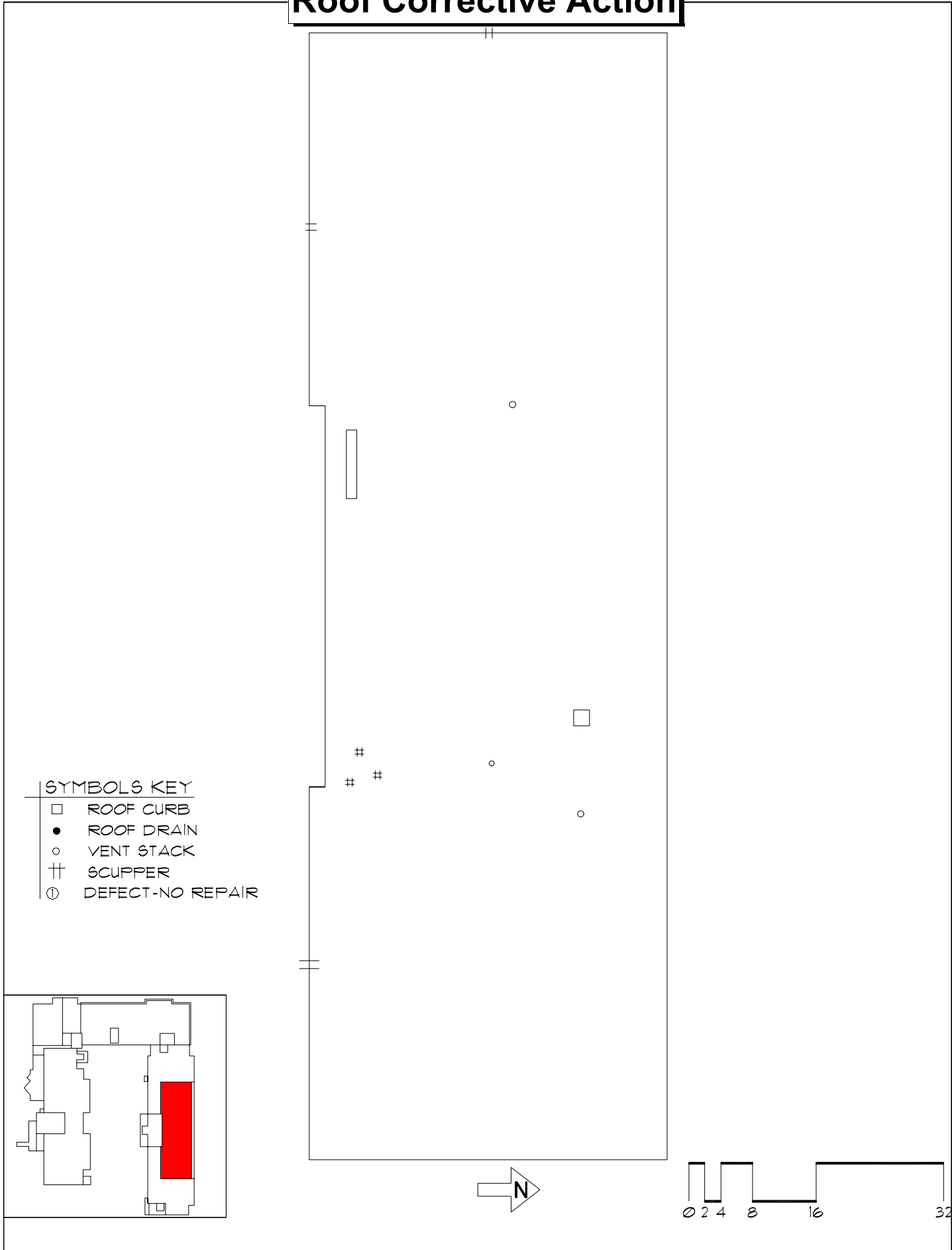
Note: I.R scan was completed. No heat variations conducive to wet insulation were observed.

**Total Area:** 46,251 sf

Y 45

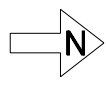


# Roof Corrective Action

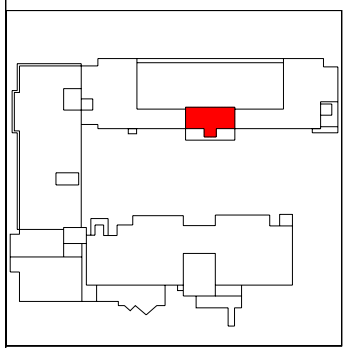
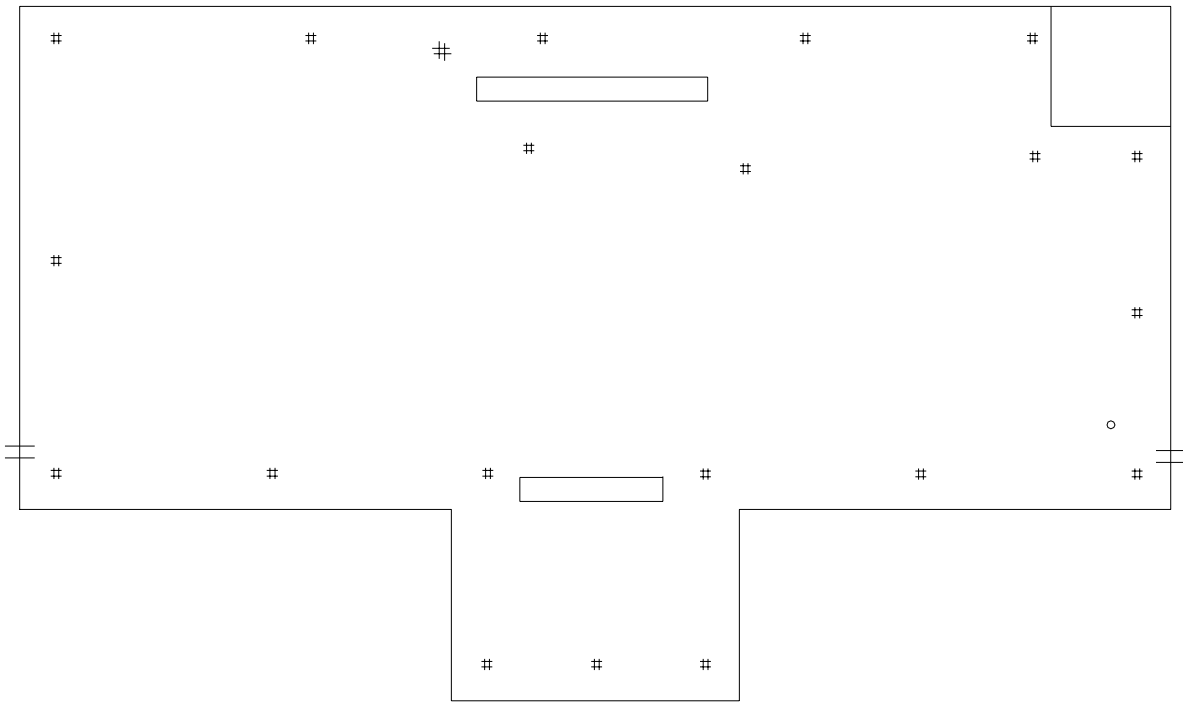


## SYMBOLS KEY

- ROOF CURB
- ROOF DRAIN
- VENT STACK
- || SCUPPER
- ⊕ DEFECT-NO REPAIR

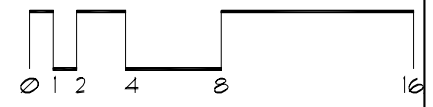


# Roof Corrective Action

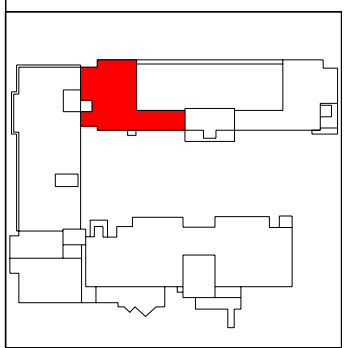
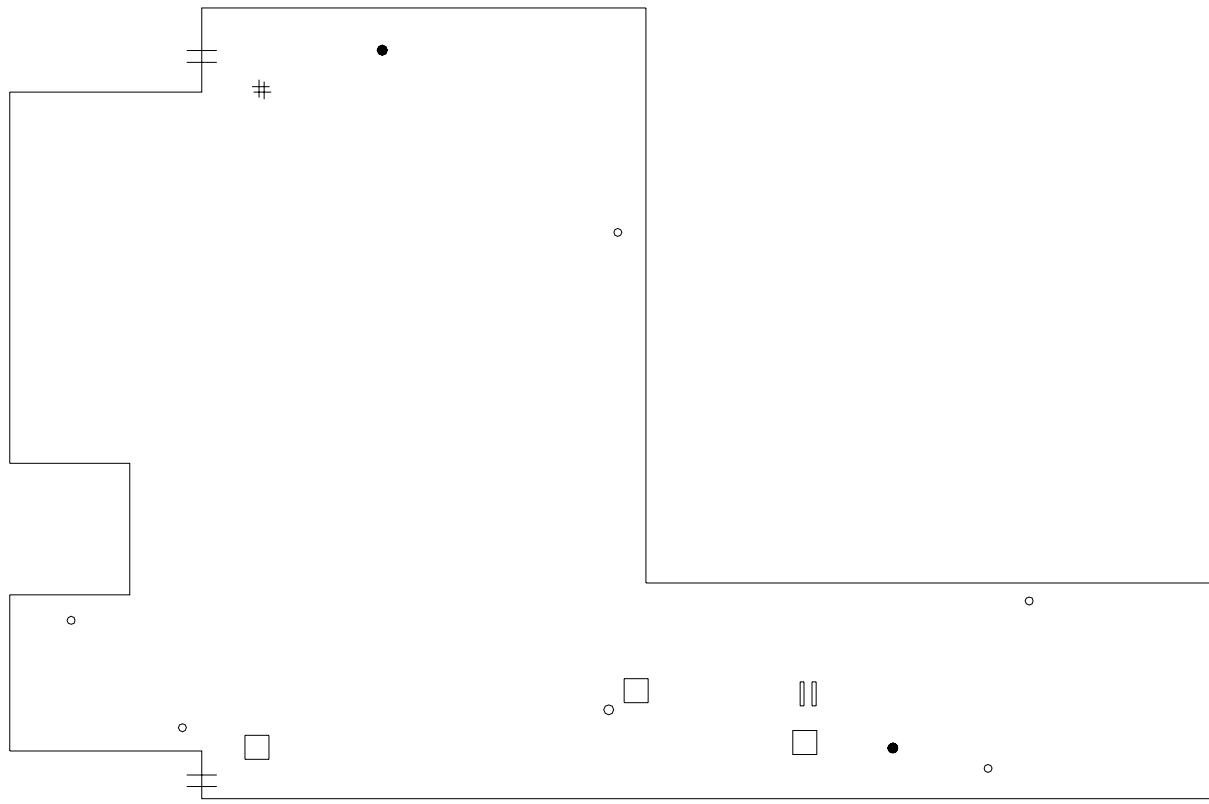


**SYMBOLS KEY**

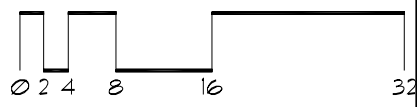
#	PITCH PAN
□	ROOF CURB
†	SCUPPER
○	VENT STACK
①	DEFECT-REPAIR



# Roof Corrective Action

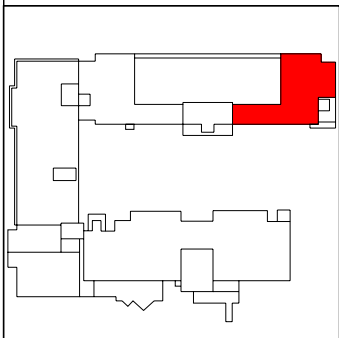
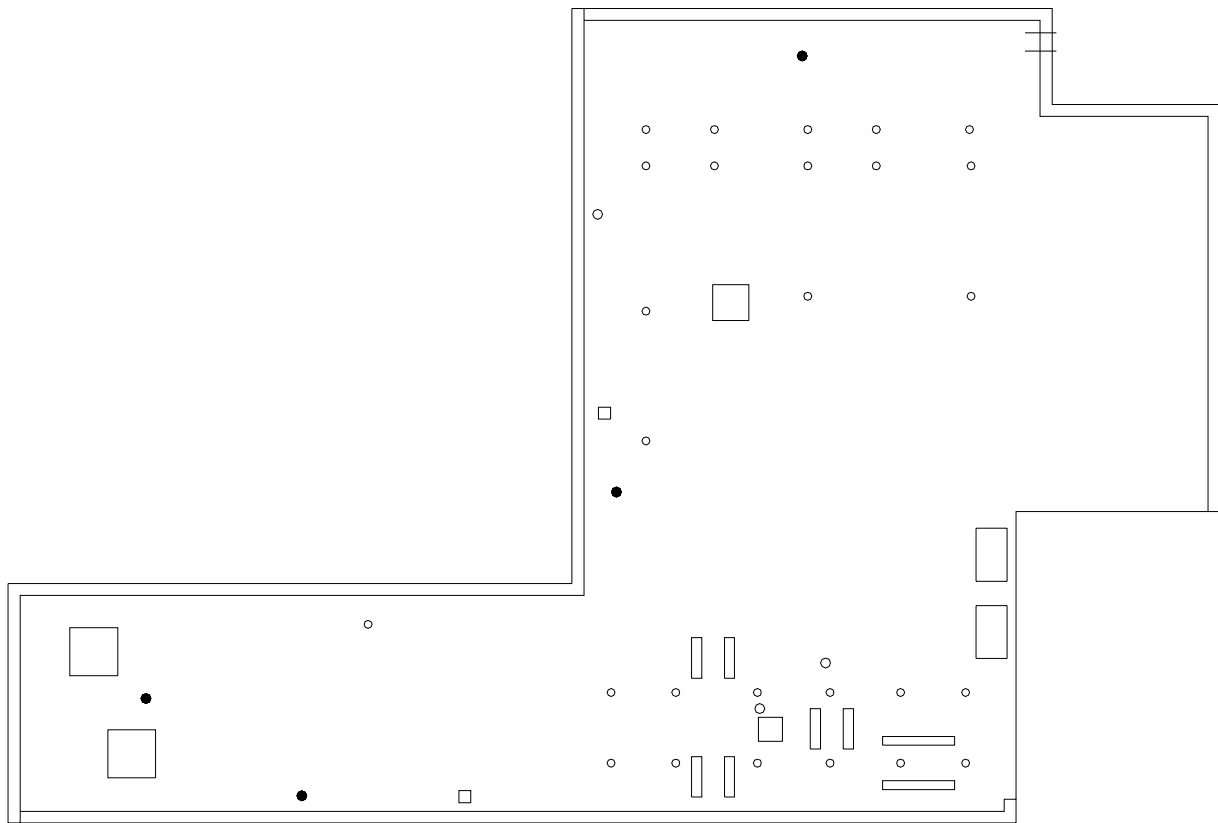


- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ⊙ DEFECT-REPAIR



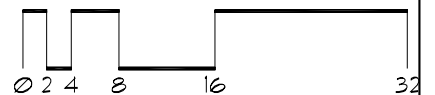


# Roof Corrective Action

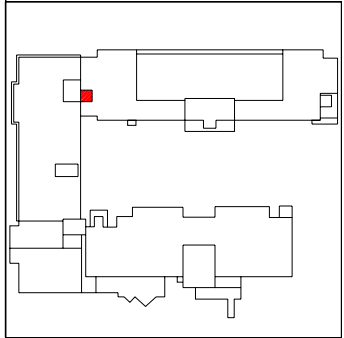
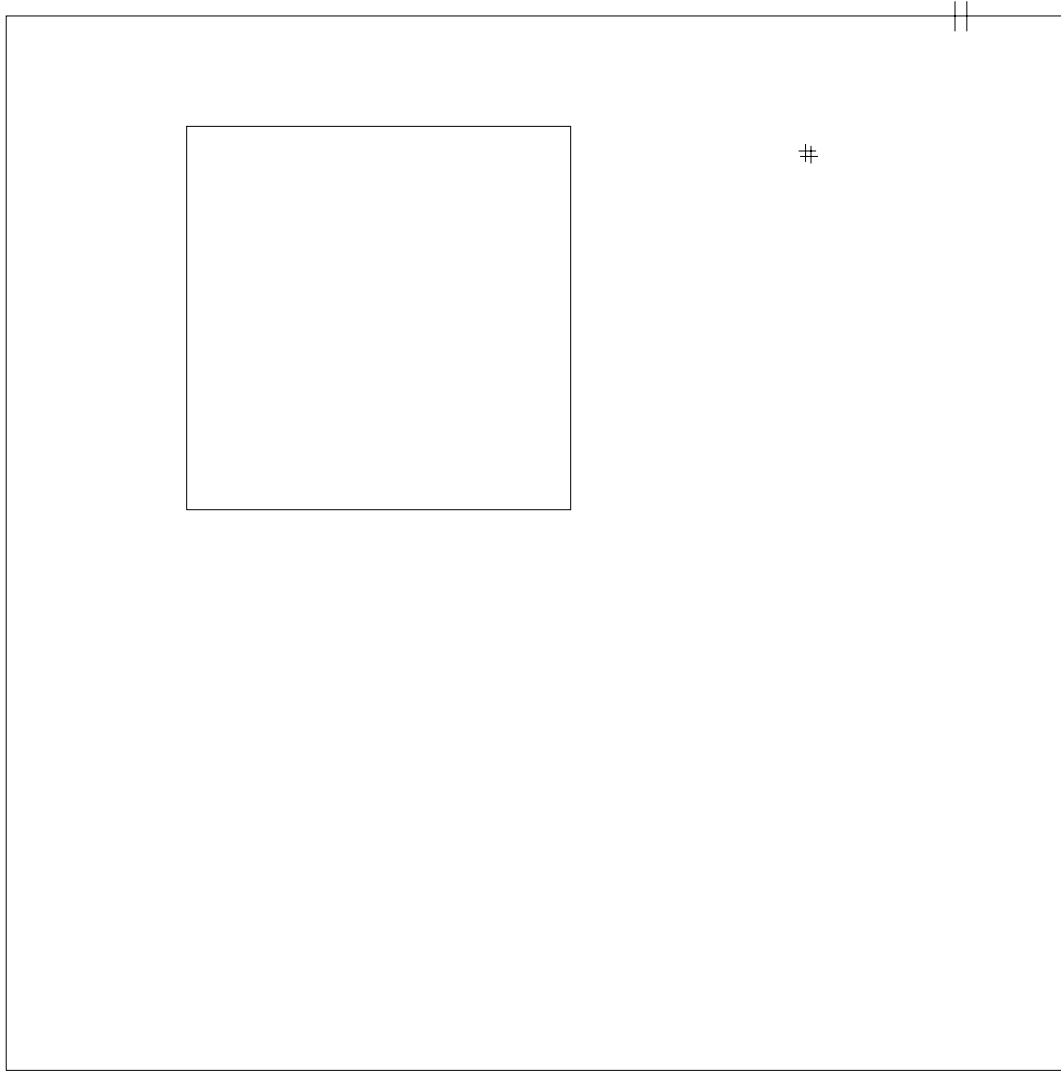


## SYMBOLS KEY

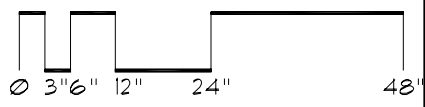
- ROOF CURB
- VENT STACK
- ROOF DRAIN
- † SCUPPER
- DEFECT-REPAIR



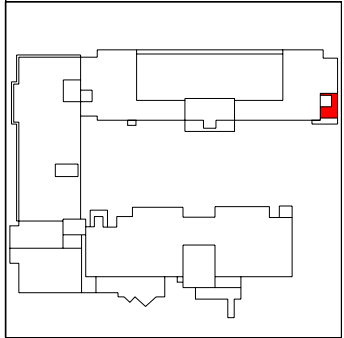
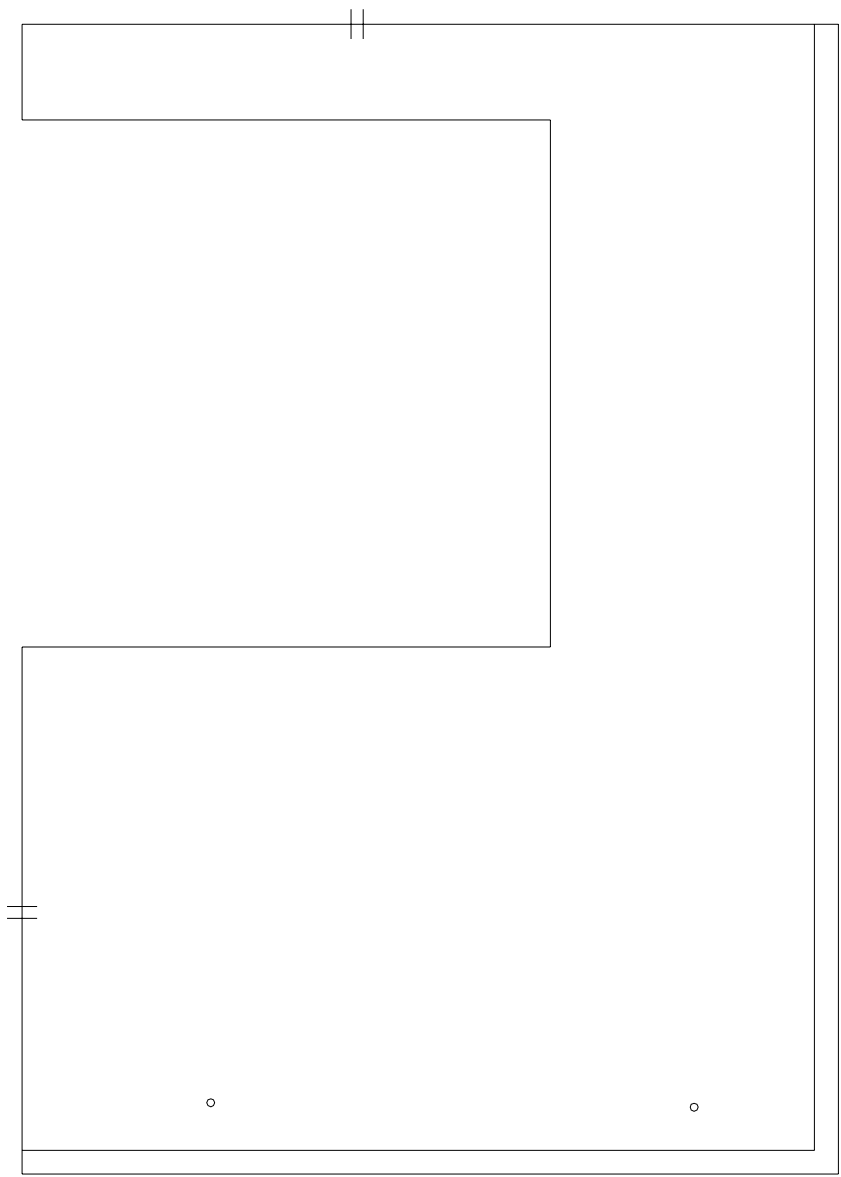
# Roof Corrective Action



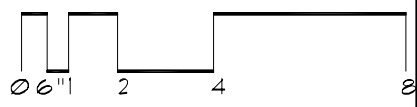
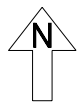
SYMBOLS KEY	
□	ROOF CURB
#	PITCH PAN
	SCUPPER



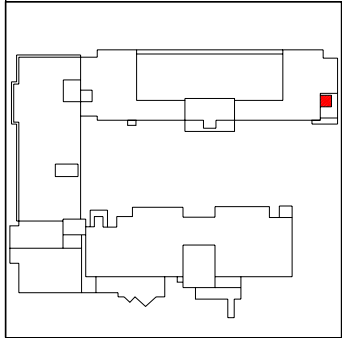
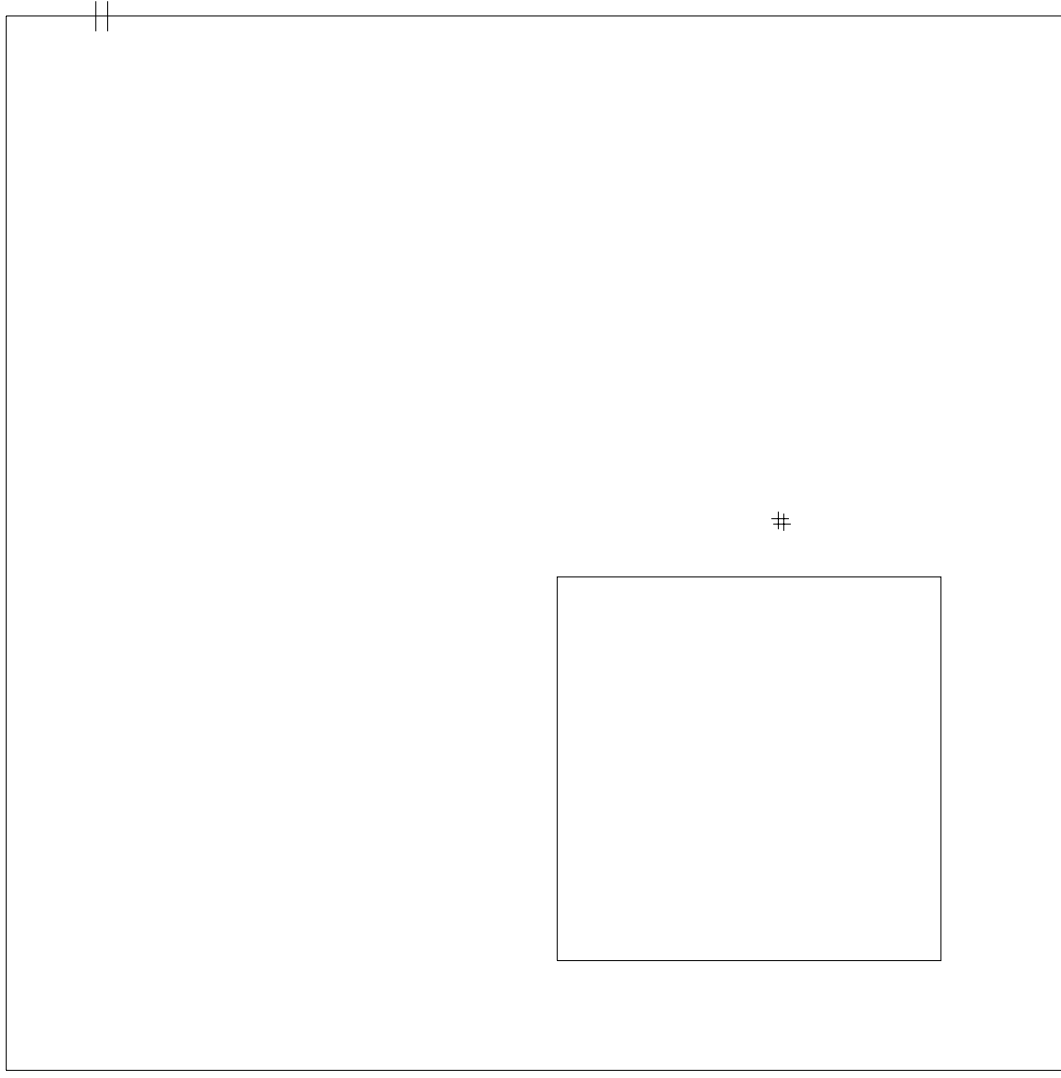
# Roof Corrective Action



SYMBOLS KEY  
|| SCUPPER  
○ VENT STACK

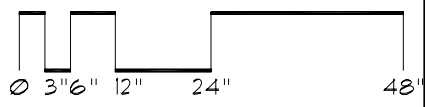


# Roof Corrective Action



**SYMBOLS KEY**

□	ROOF CURB
#	PITCH PAN
	SCUPPER
Ⓢ	DEFECT-REPAIR

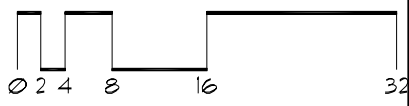
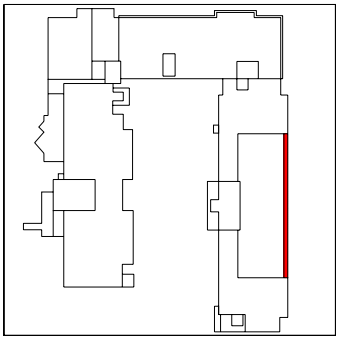


# Roof Corrective Action

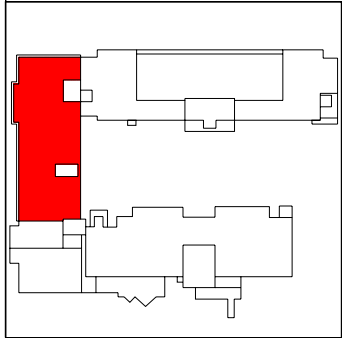
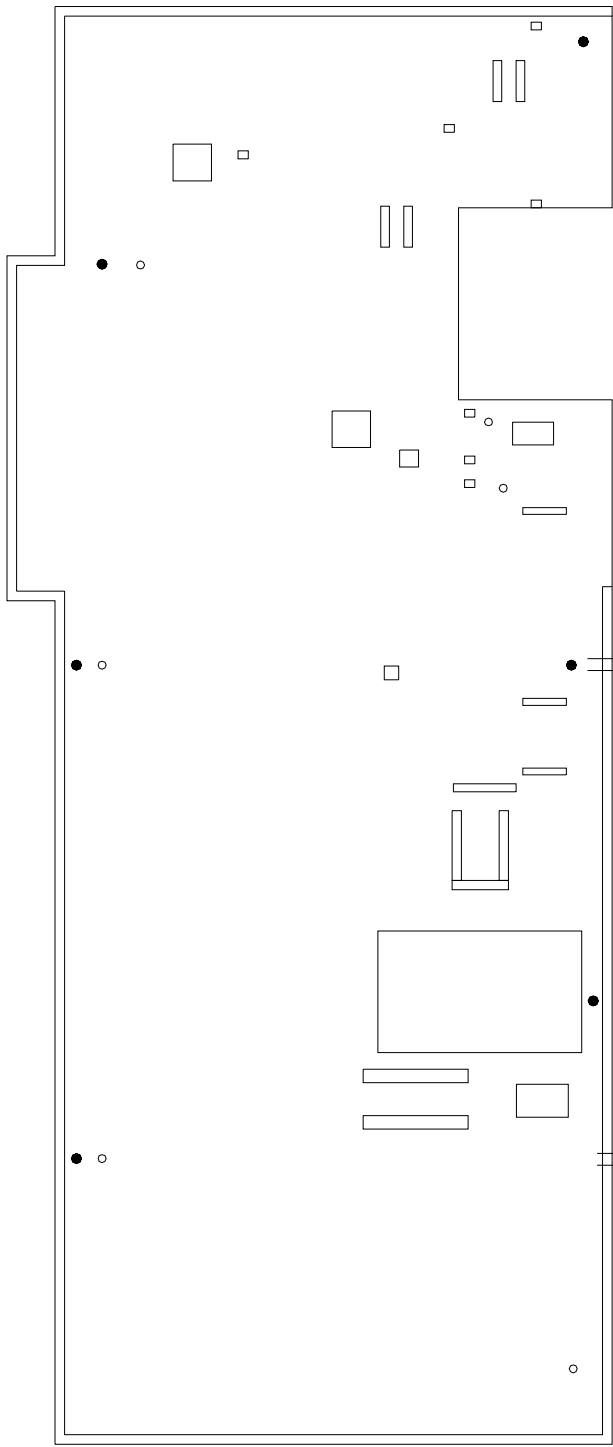


## SYMBOLS KEY

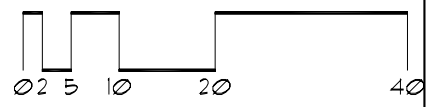
- † SCUPPER
- CHIMNEY
- ROOF DRAIN



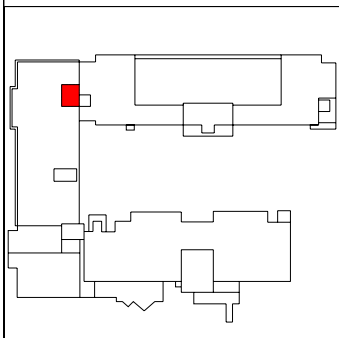
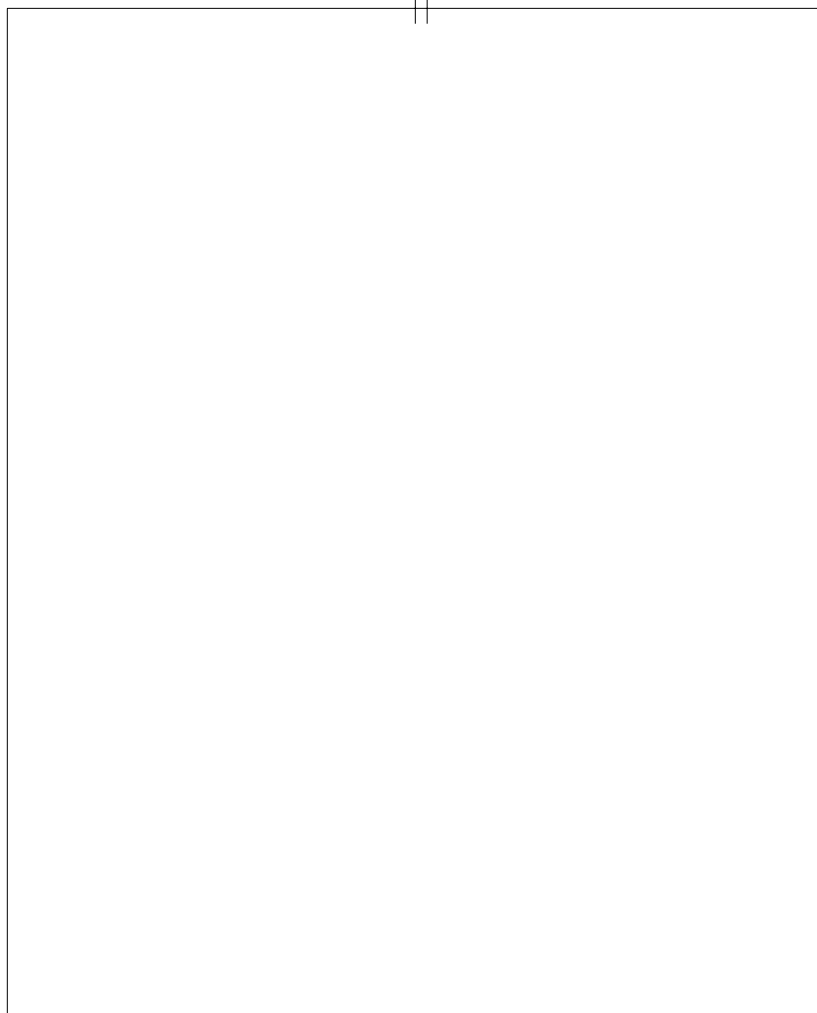
# Roof Corrective Action



- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - || SCUPPER
  - Ⓢ DEFECT-REPAIR



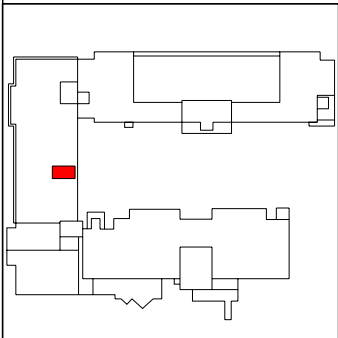
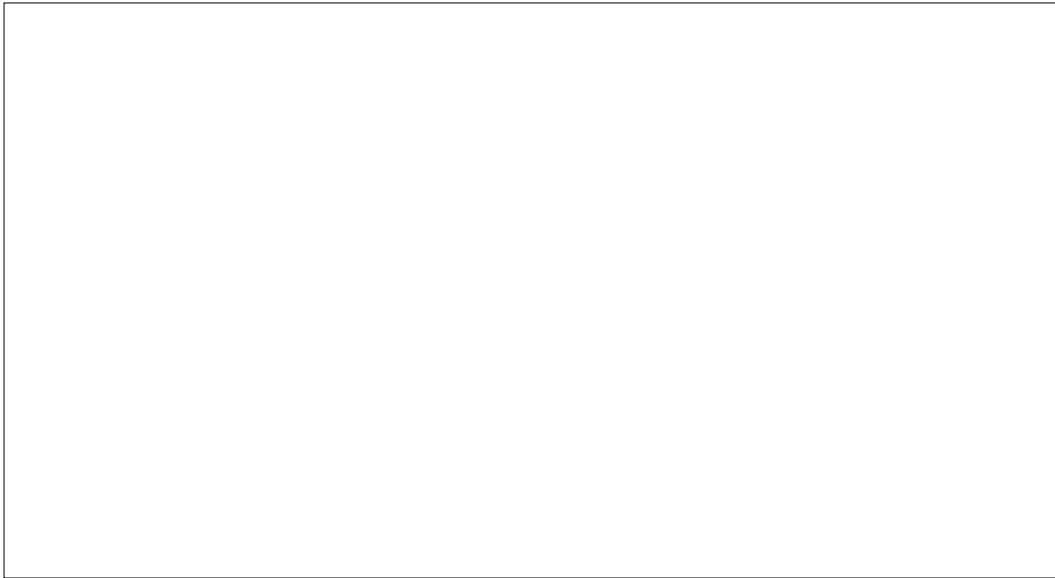
# Roof Corrective Action



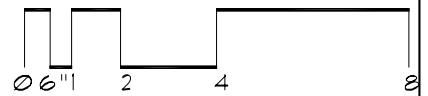
SYMBOLS KEY  
|| SCUPPER  
Ⓢ DEFECT-REPAIR



# Roof Corrective Action

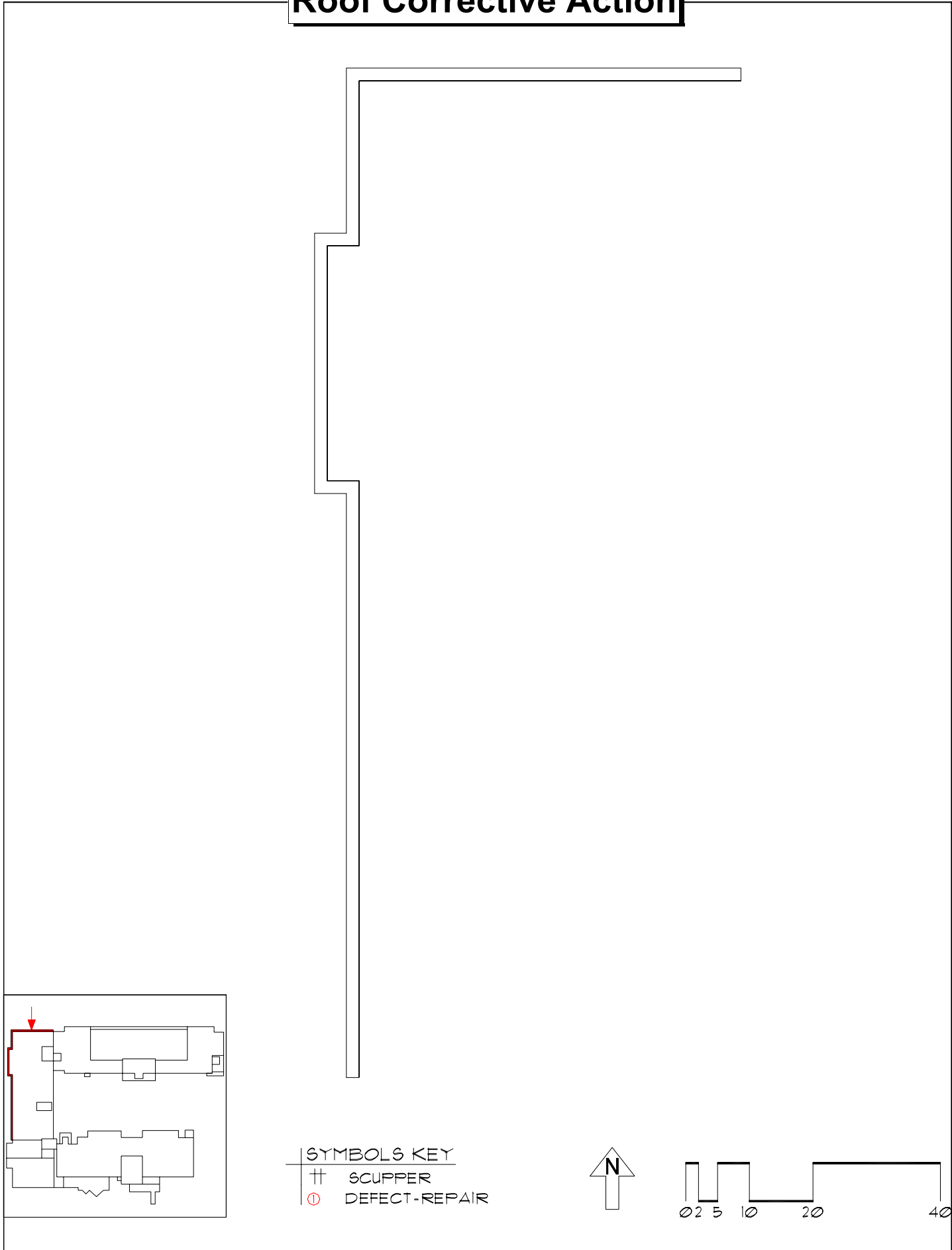


SYMBOLS KEY  
DEFECT-REPAIR

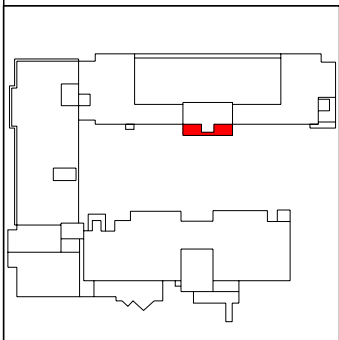




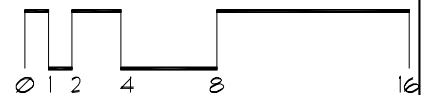
# Roof Corrective Action



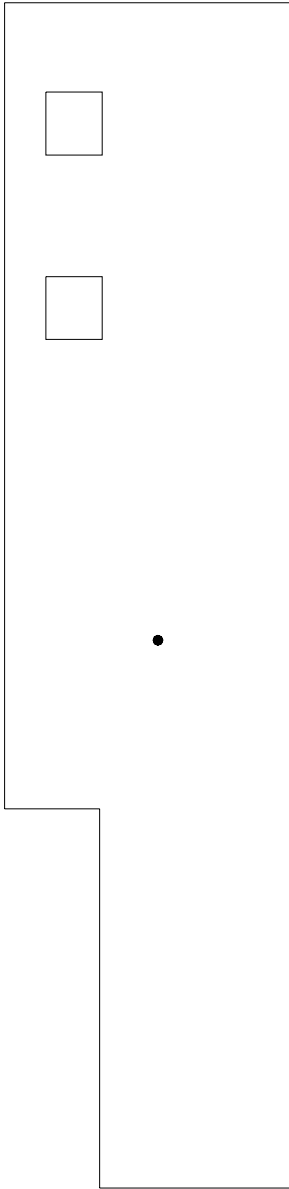
# Roof Corrective Action



SYMBOLS KEY  
● ROOF DRAIN  
ⓘ DEFECT-REPAIR

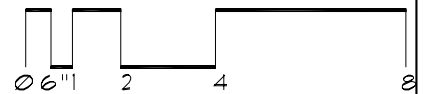
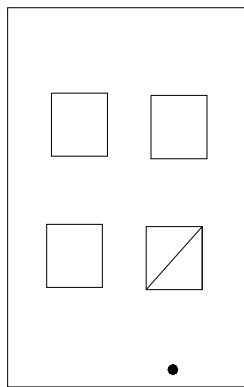
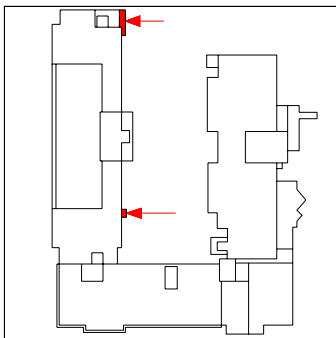


# Roof Corrective Action

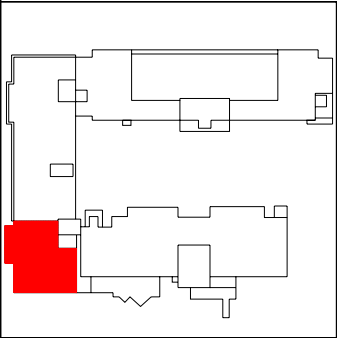
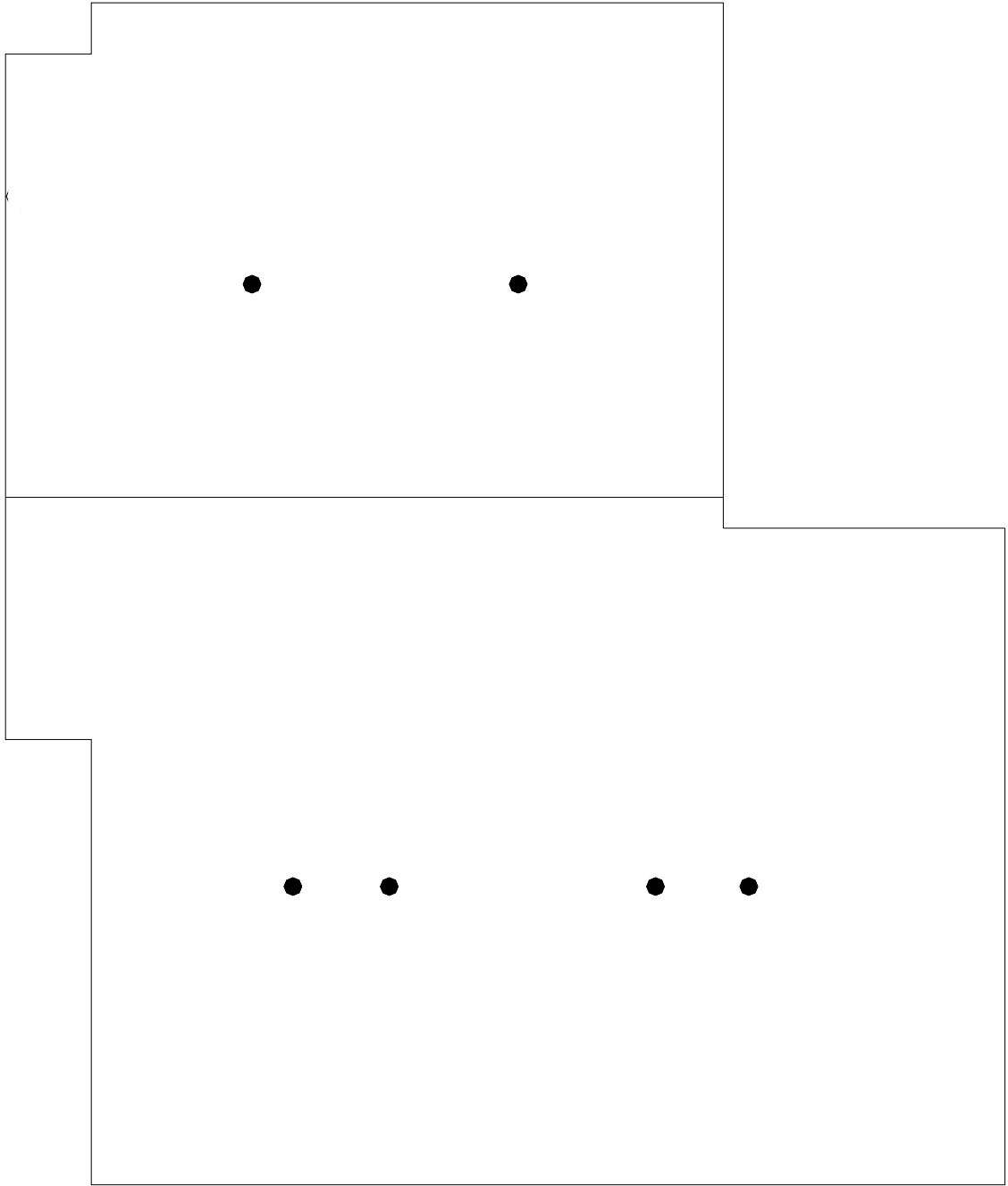


## SYMBOLS KEY

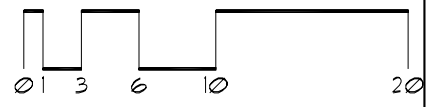
- ROOF CURB
- ROOF DRAIN
- ▣ ROOF HATCH



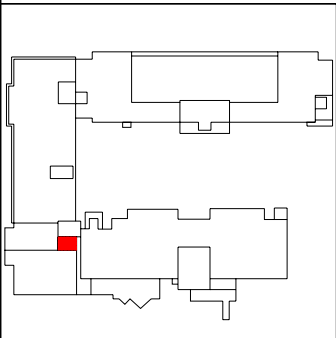
# Roof Corrective Action



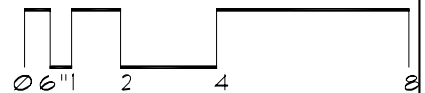
SYMBOLS KEY  
● ROOF DRAIN  
⓪ DEFECT-NO REPAIR



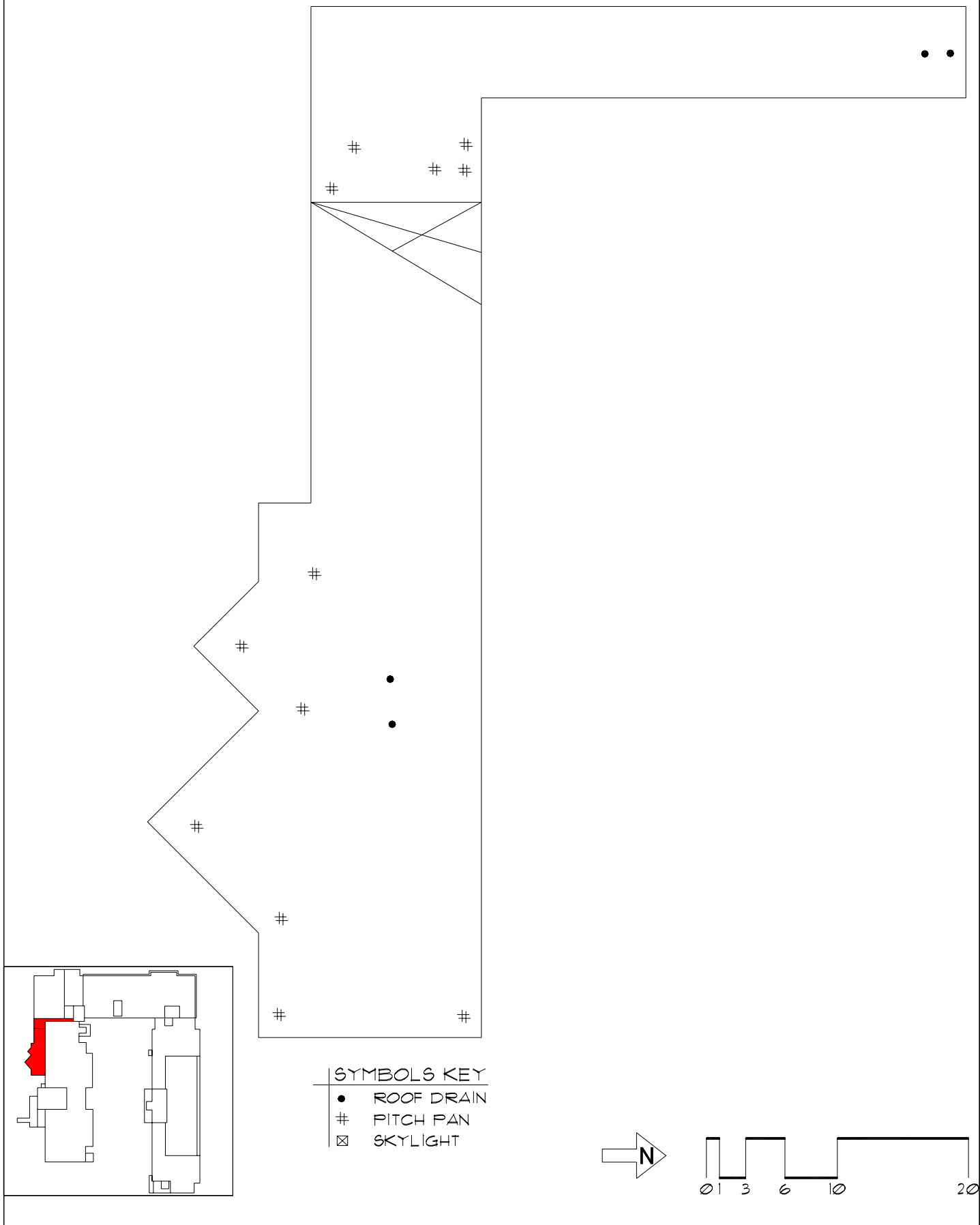
# Roof Corrective Action



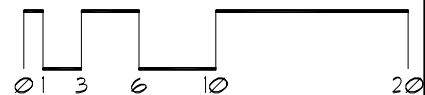
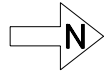
SYMBOLS KEY  
● ROOF DRAIN  
○ VENT STACK  
① DEFECT-REPAIR



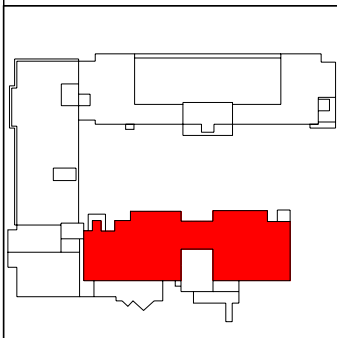
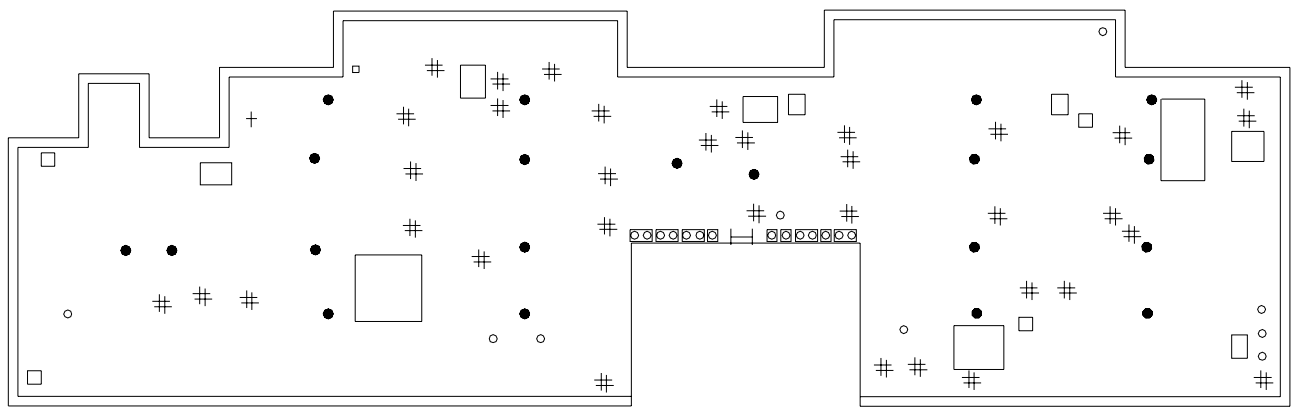
# Roof Corrective Action



**SYMBOLS KEY**  
● ROOF DRAIN  
# PITCH PAN  
☒ SKYLIGHT

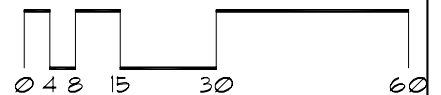


# Roof Corrective Action

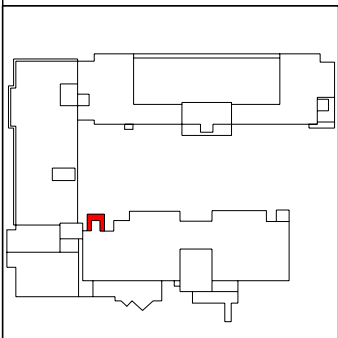
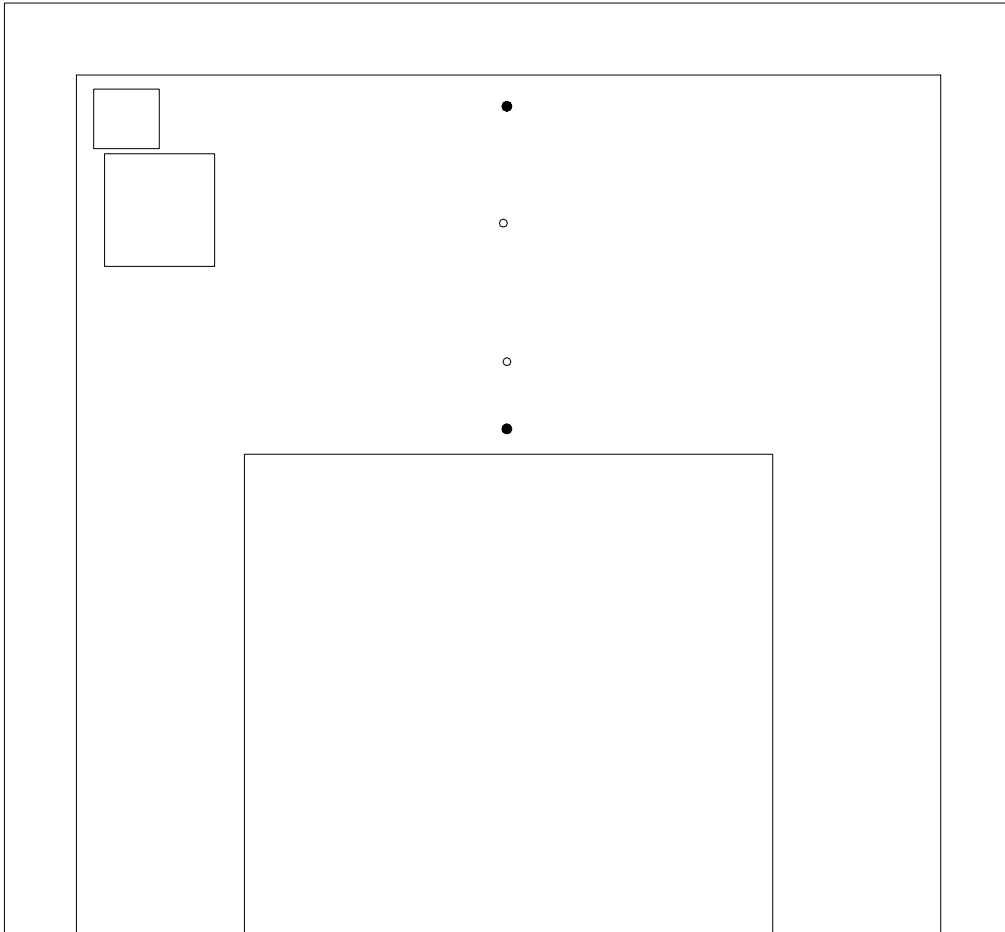


## SYMBOLS KEY

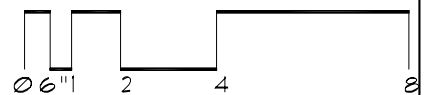
- ROOF CURB
- ROOF DRAIN
- VENT STACK
- # PITCH PAN
- Ⓢ DEFECT-REPAIR
- Ⓣ DEFECT-NO REPAIR



# Roof Corrective Action

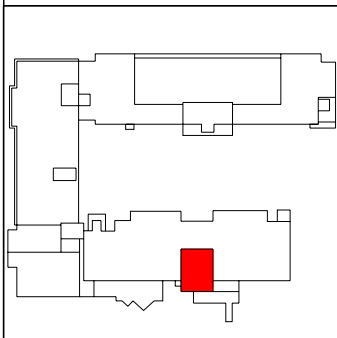
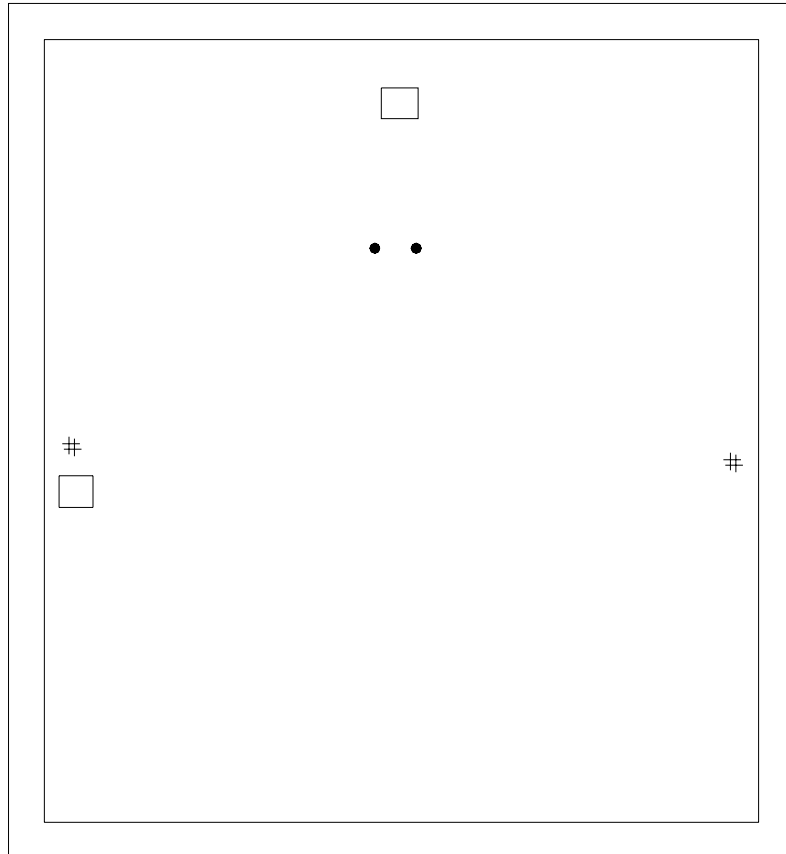


- SYMBOLS KEY
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK



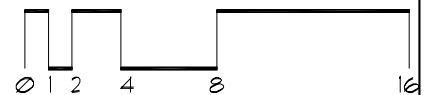


# Roof Corrective Action

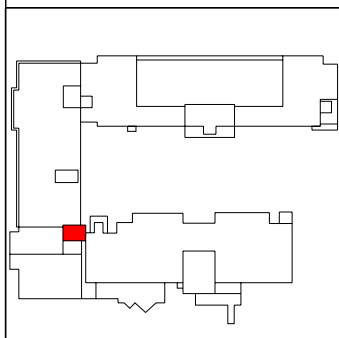
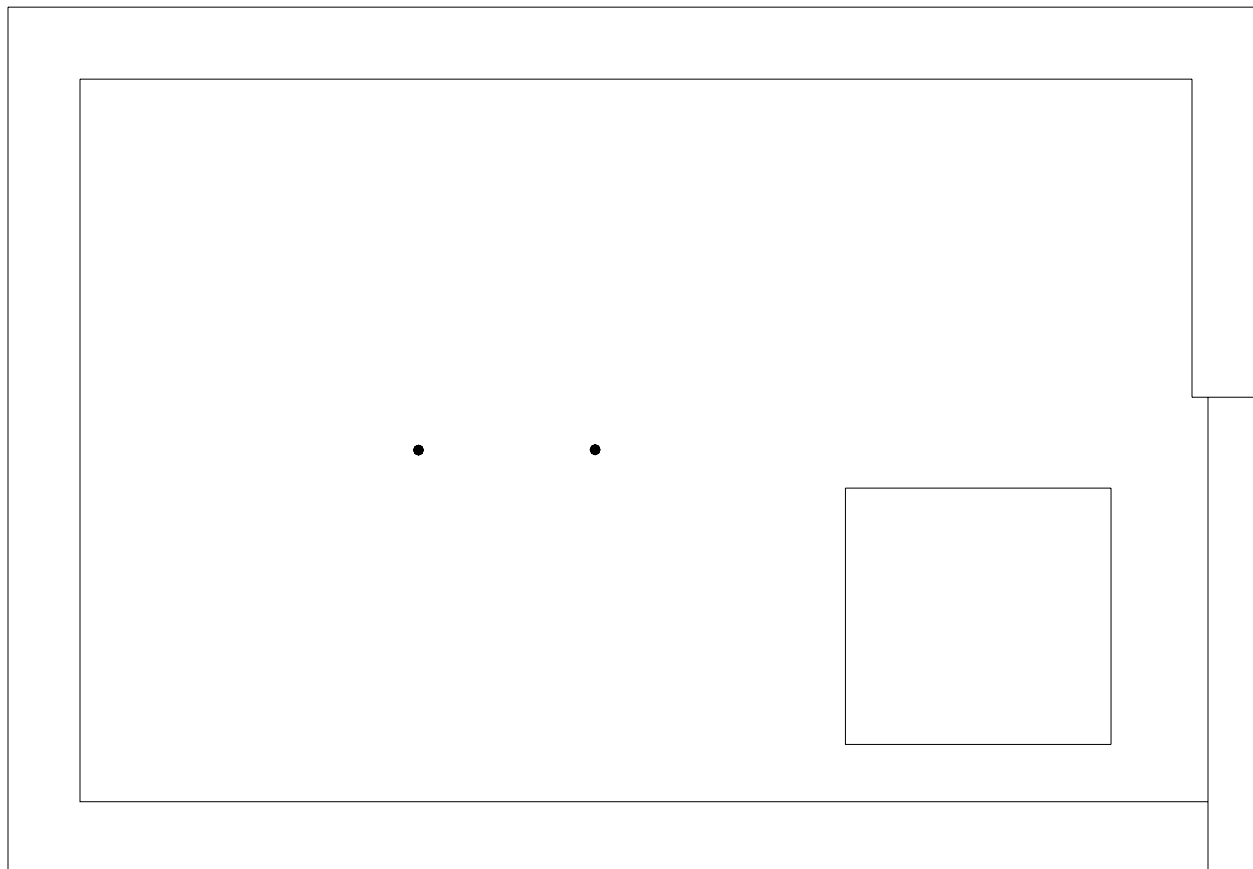


## SYMBOLS KEY

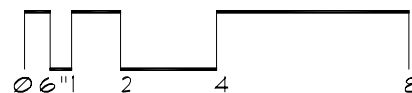
- ROOF CURB
- ROOF DRAIN
- # PITCH PAN
- DEFECT-REPAIR



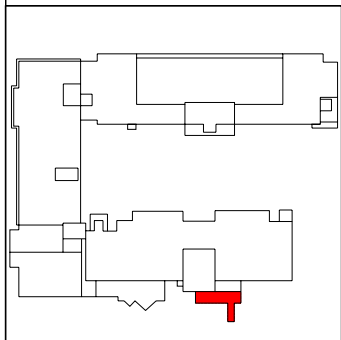
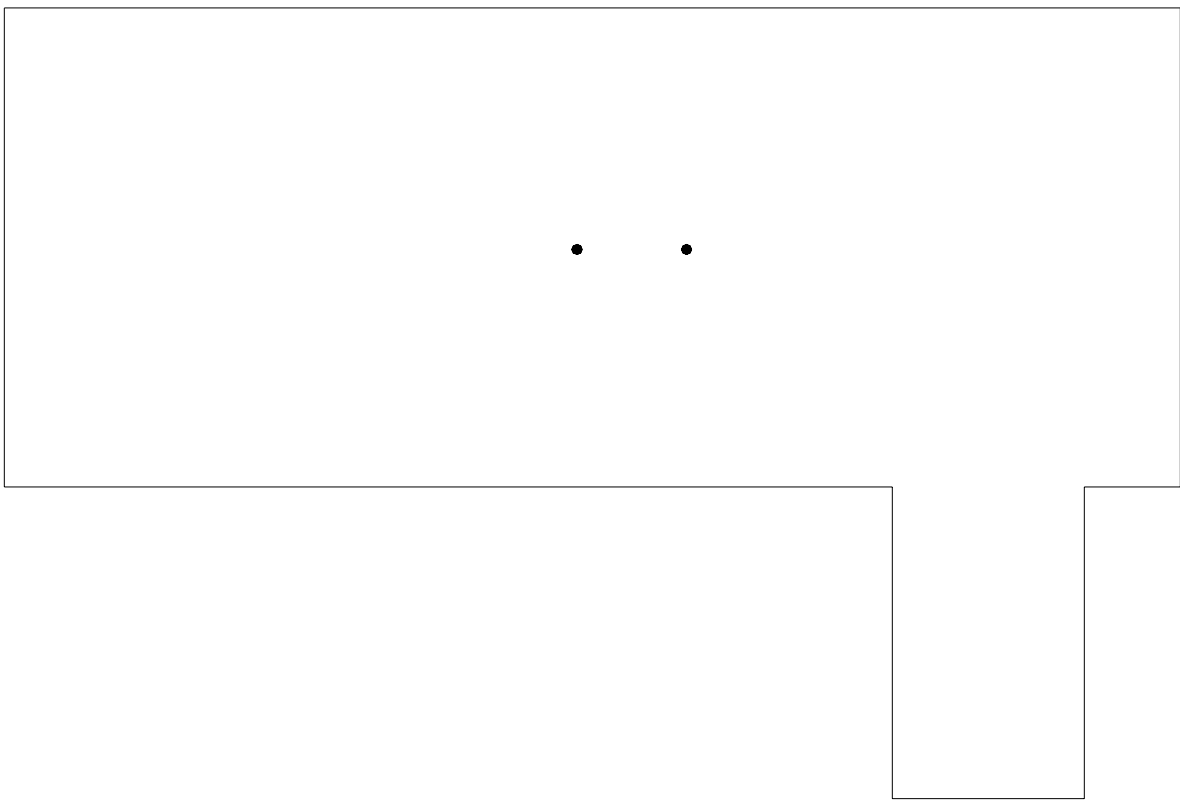
# Roof Corrective Action



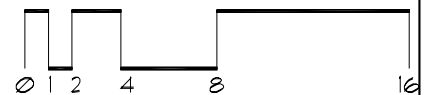
SYMBOLS KEY  
□ ROOF CURB  
• ROOF DRAIN



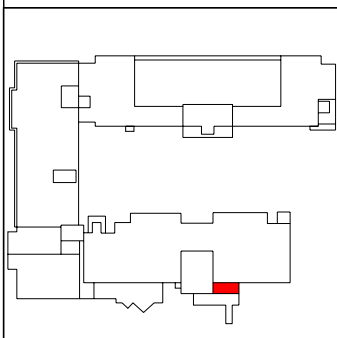
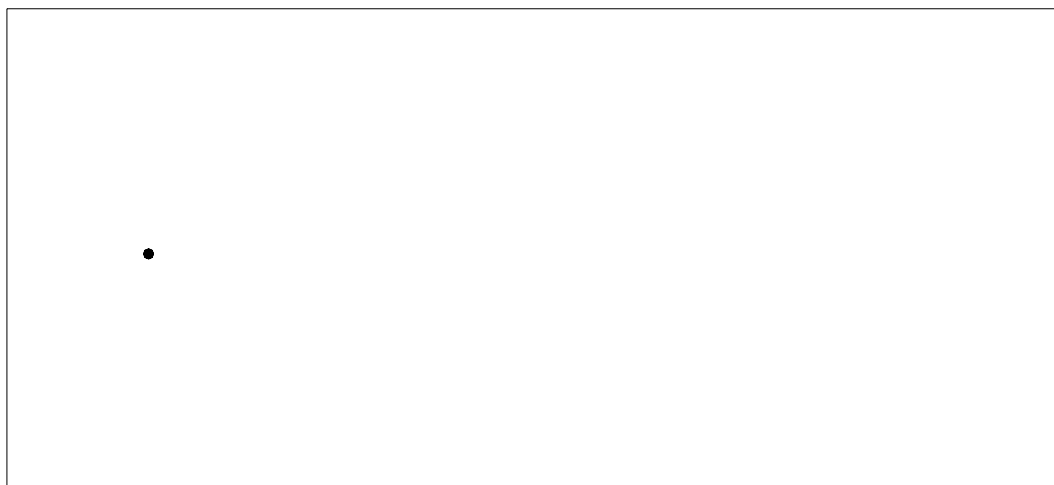
# Roof Corrective Action



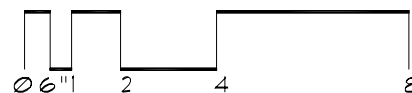
SYMBOLS KEY  
• ROOF DRAIN



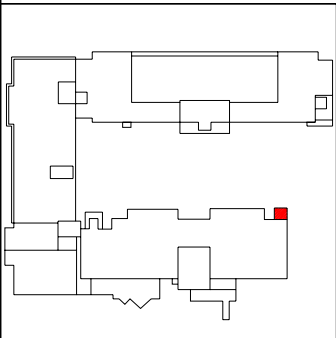
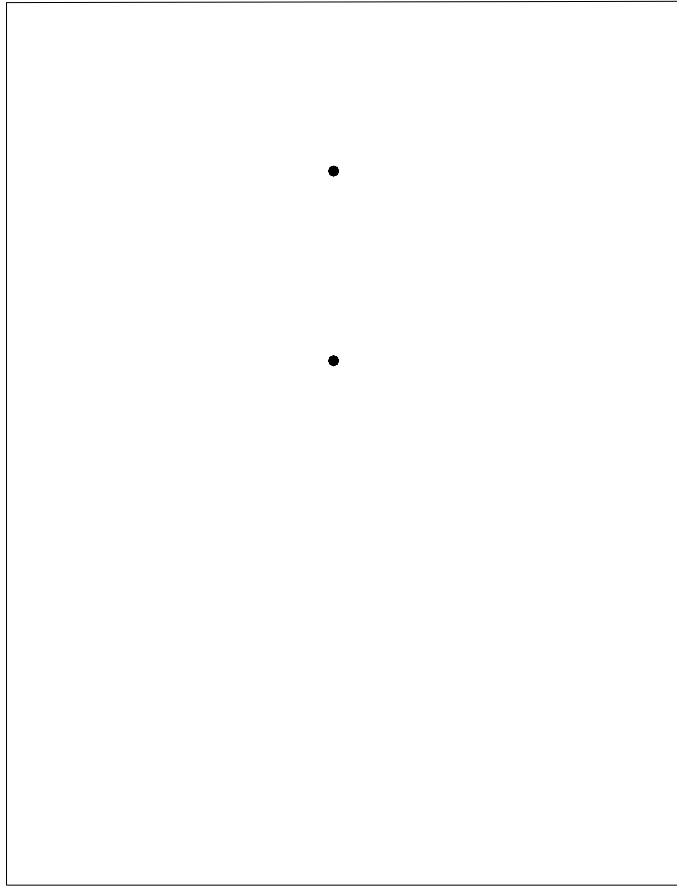
# Roof Corrective Action



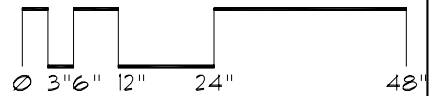
**SYMBOLS KEY**  
● ROOF DRAIN  
Ⓢ DEFECT-REPAIR



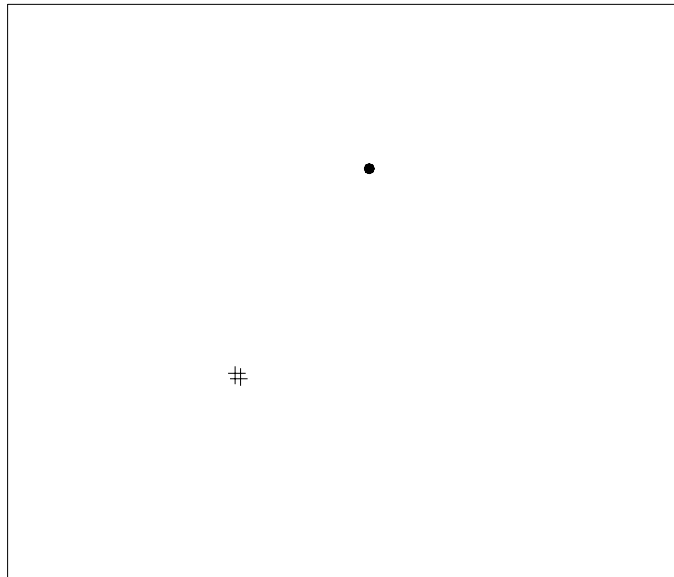
# Roof Corrective Action



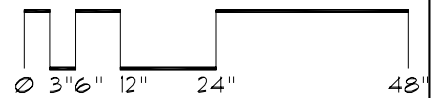
SYMBOLS KEY  
• ROOF DRAIN



# Roof Corrective Action



SYMBOLS KEY	
●	ROOF DRAIN
#	PITCH PAN



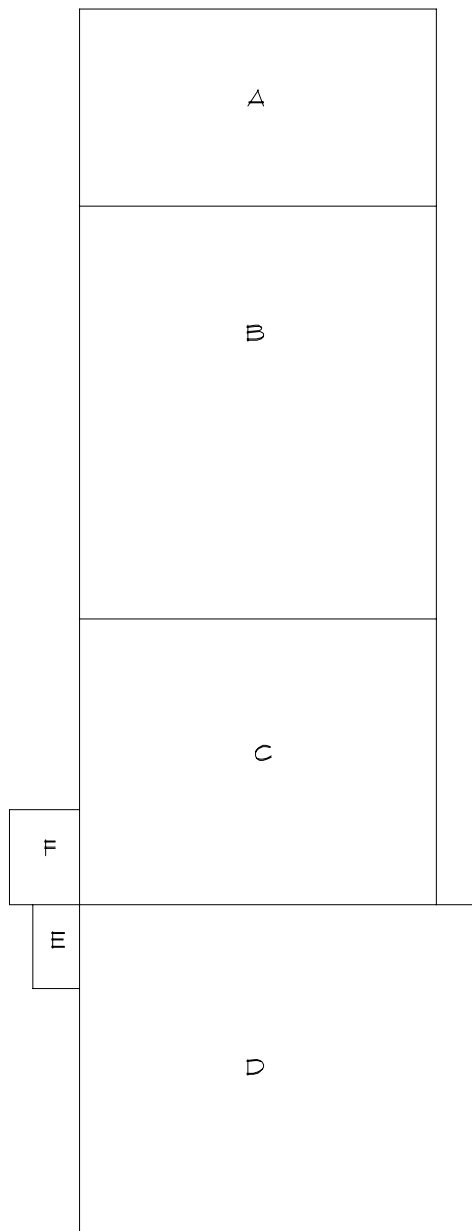
# Roof ID

**Building:** EB266 - Akerman Hall - (110 Union Street Se, Mpls)

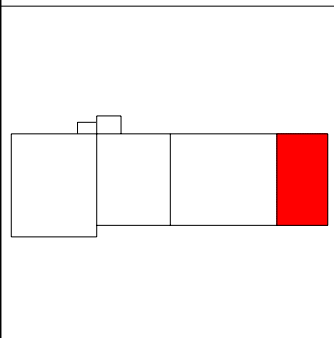
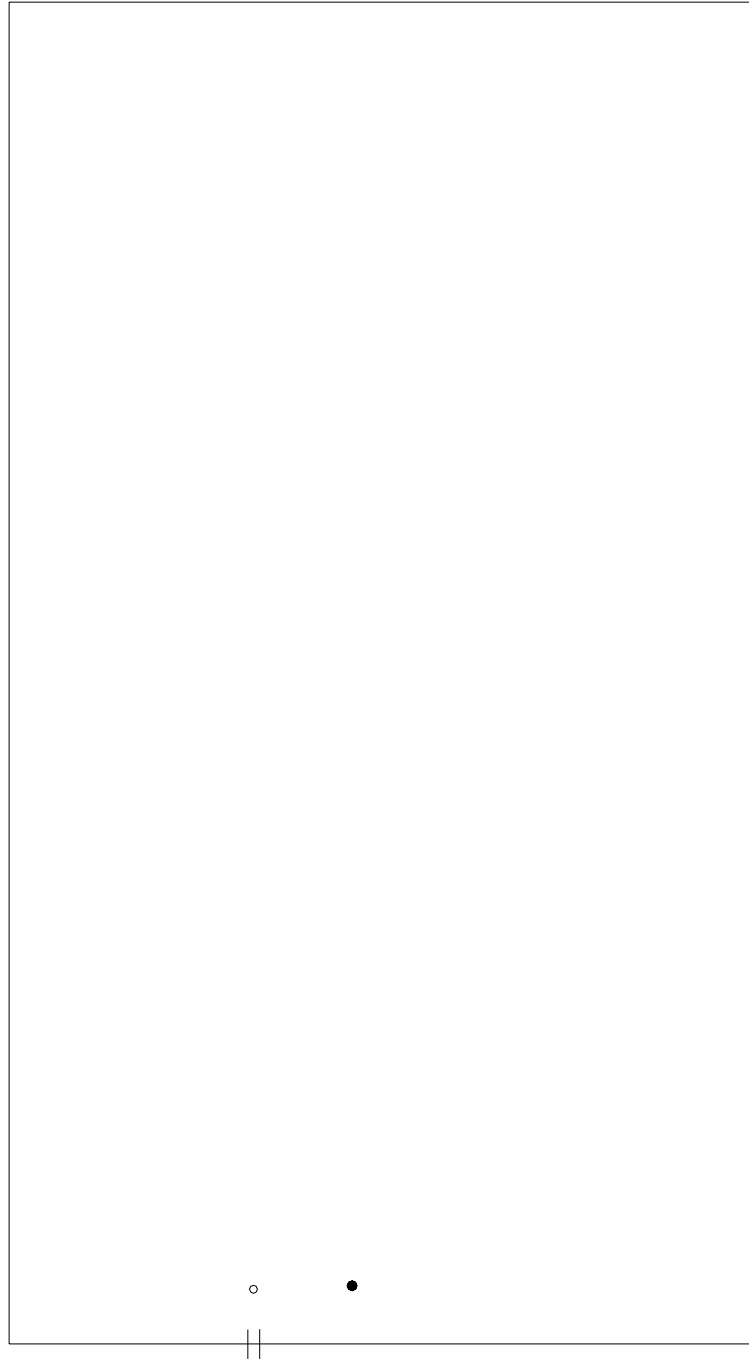
**Roof Access:** East stairwell or from Mechanical Engineering

**Total Area:** 10,811 sf

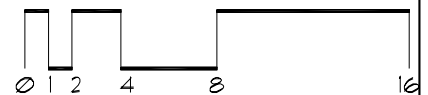
<u>A</u>	<u>1,736</u>	<u>E</u>	<u>32</u>
<u>B</u>	<u>3,082</u>	<u>F</u>	<u>165</u>
<u>C</u>	<u>2,520</u>		
<u>D</u>	<u>3,276</u>		



# Roof Corrective Action

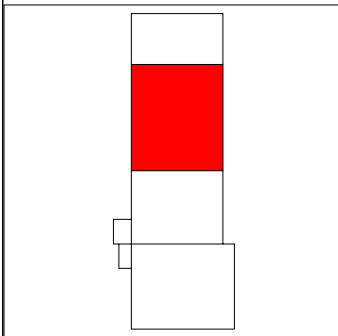
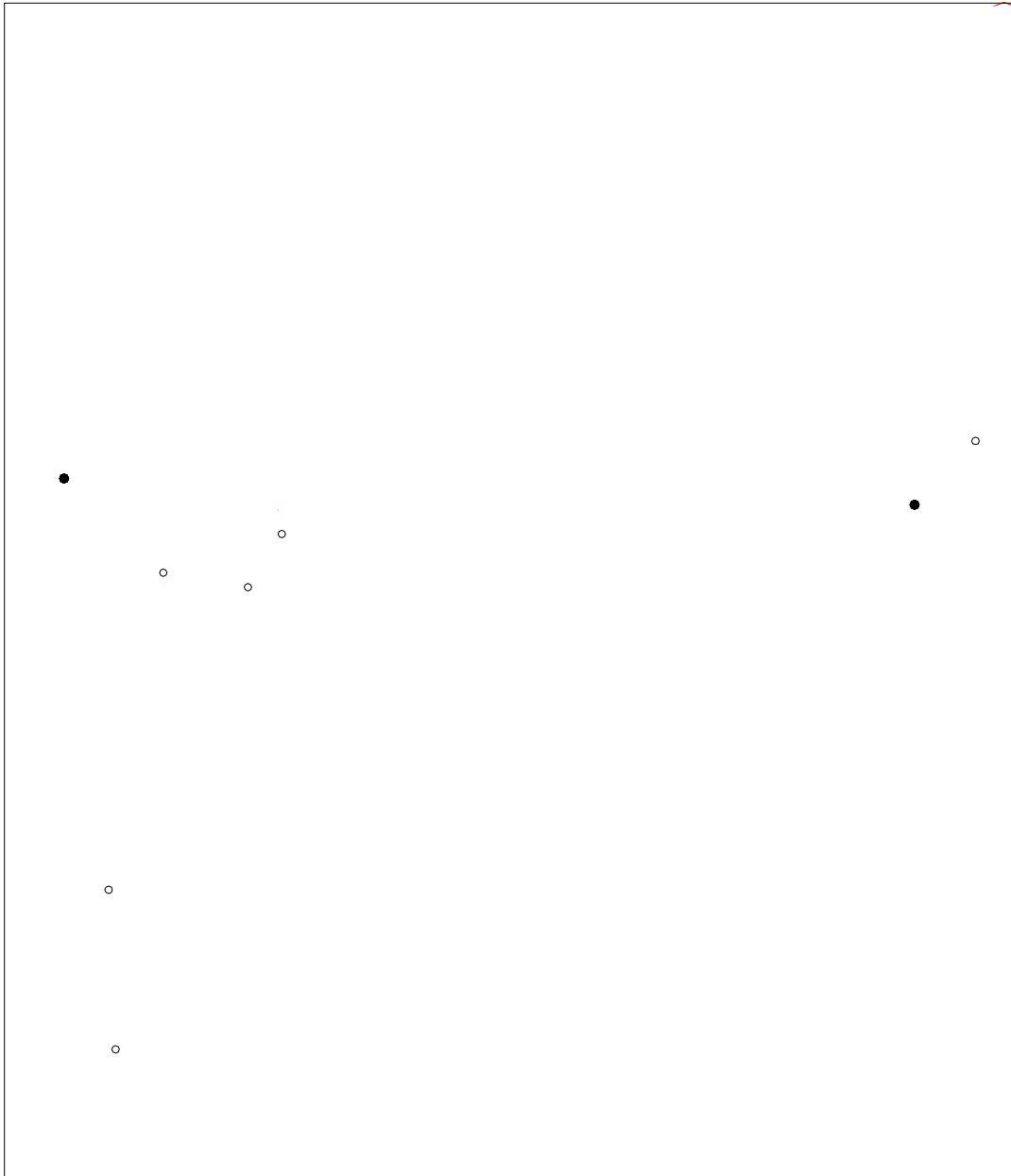


SYMBOLS KEY	
	SCUPPER
●	ROOF DRAIN
○	VENT STACK



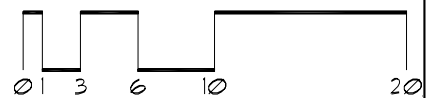


# Roof Corrective Action

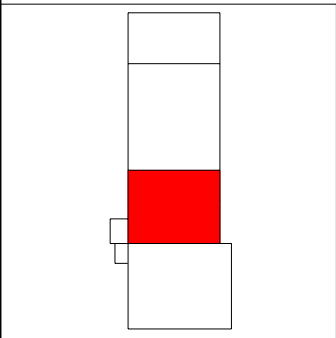
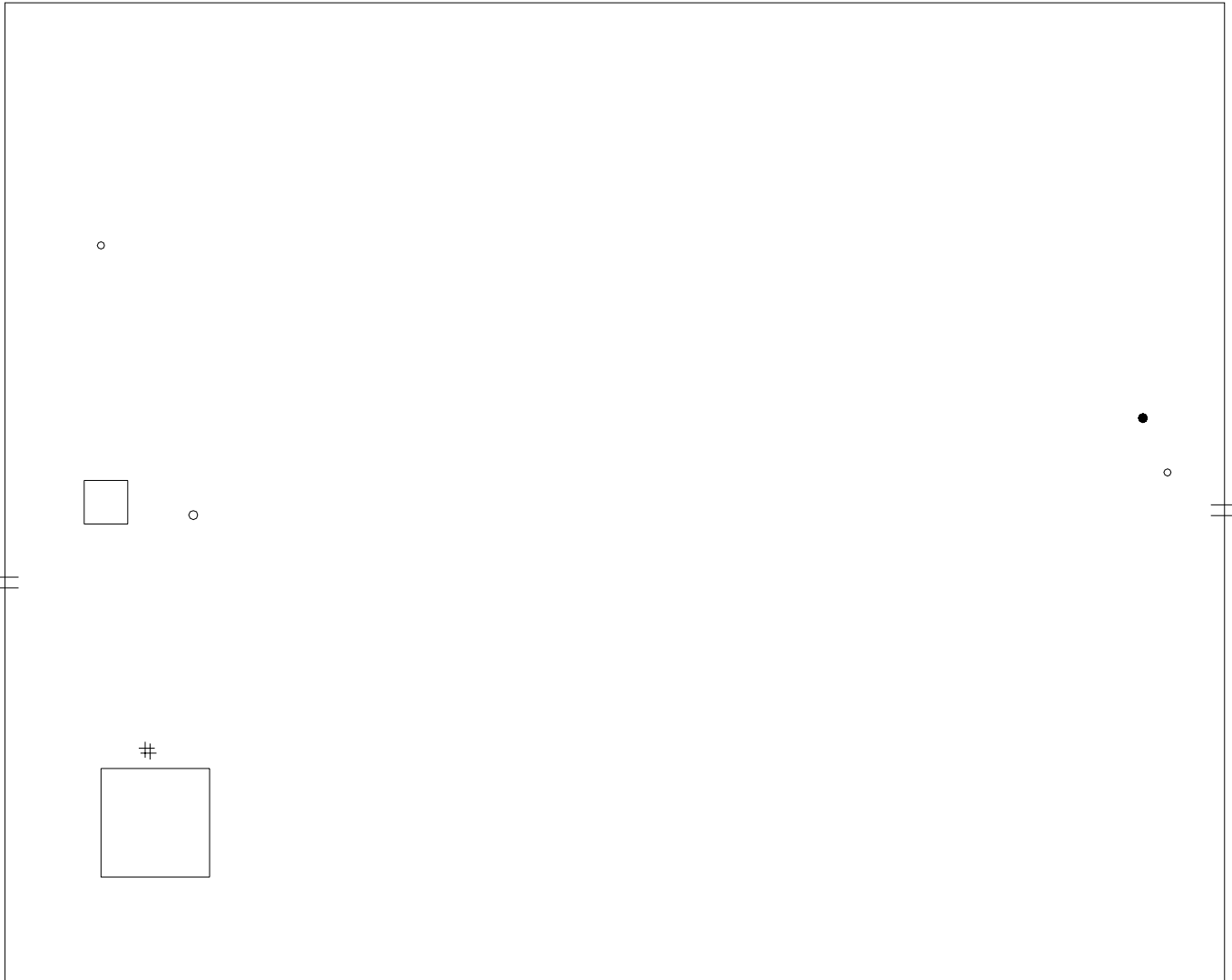


## SYMBOLS KEY

- ROOF DRAIN
- VENT STACK
- ① DEFECT-REPAIR

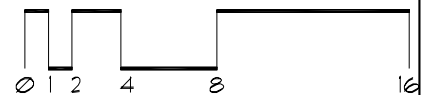


# Roof Corrective Action

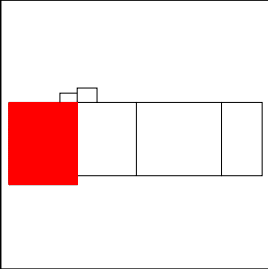
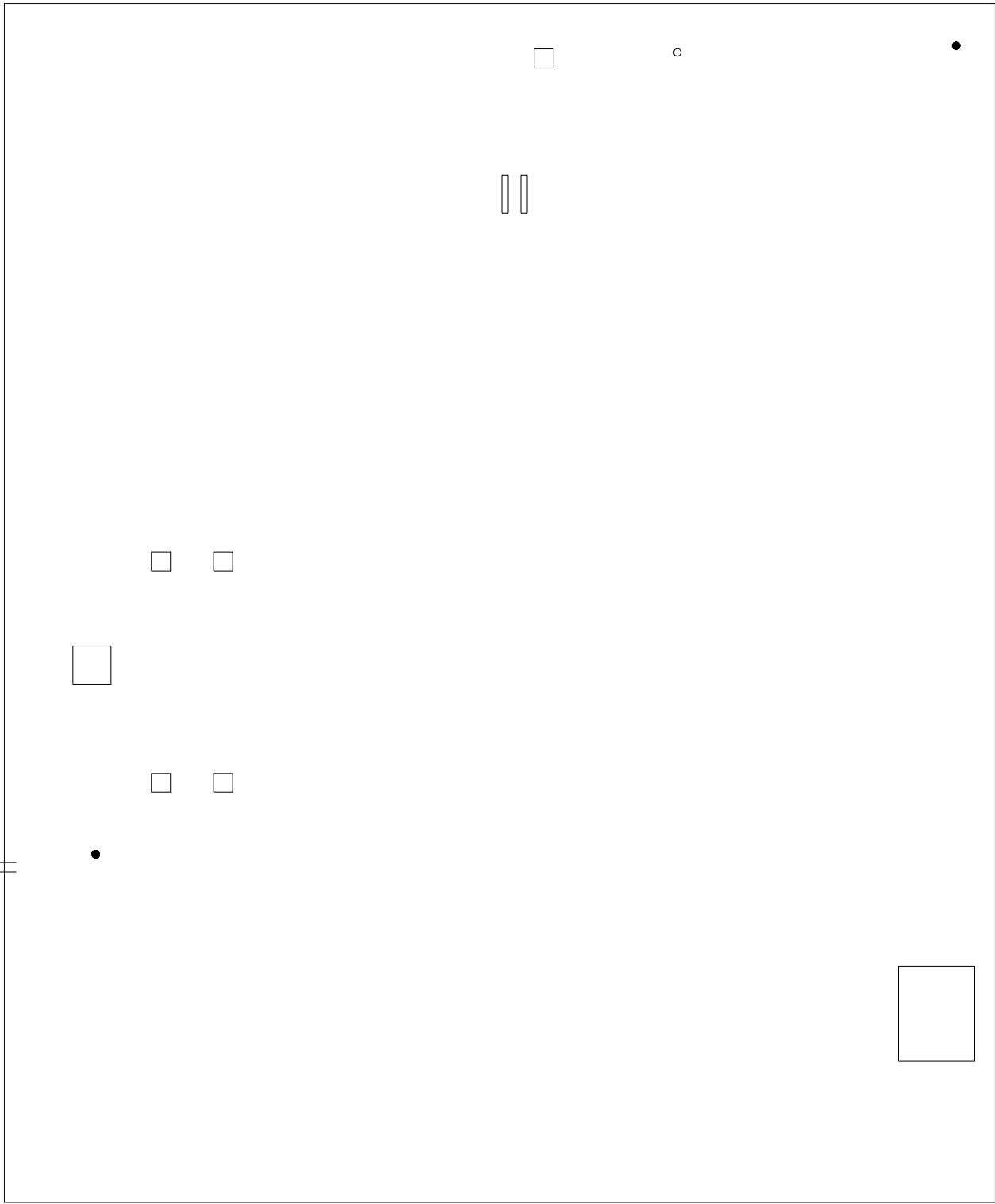


## SYMBOLS KEY

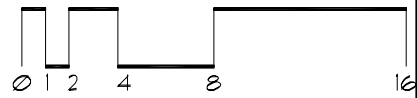
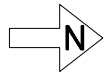
- # PITCH PAN
- o VENT STACK
- ≡ SCUPPER
- ROOF DRAIN
- ROOF CURB



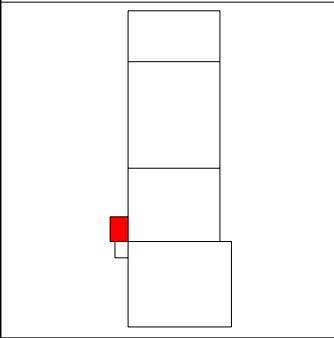
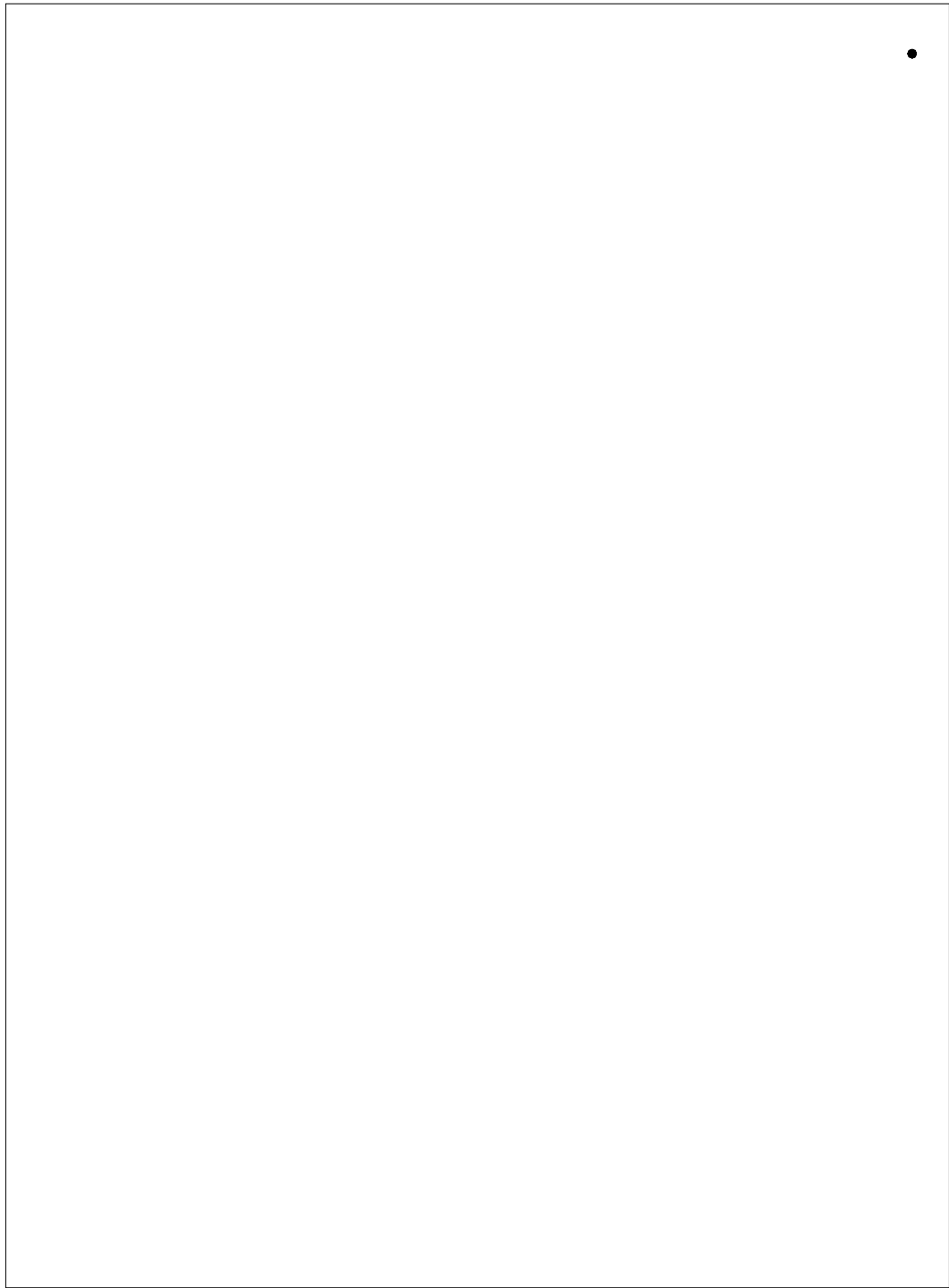
# Roof Corrective Action



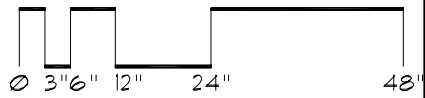
- SYMBOLS KEY**
- ROOF CURB
  - ROOF DRAIN
  - VENT STACK
  - ≡ SCUPPER



# Roof Corrective Action



SYMBOLS KEY  
• ROOF DRAIN



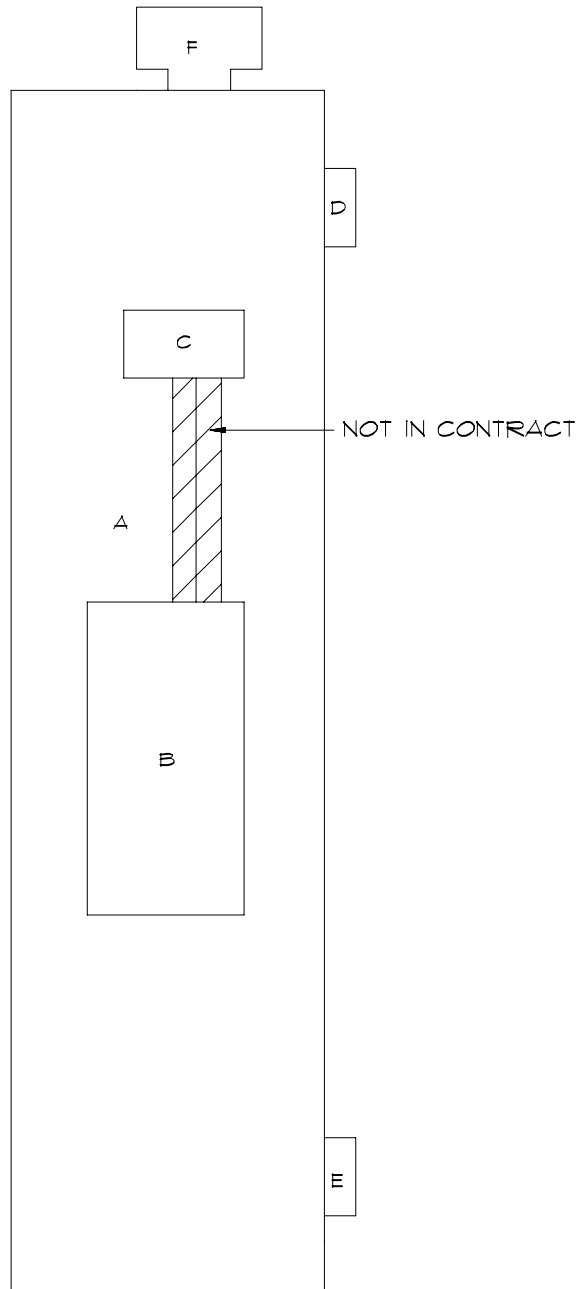
# Roof ID

**Building:** EB267 - Peik Hall - (159 Pillsbury Dr Se., Mpls)

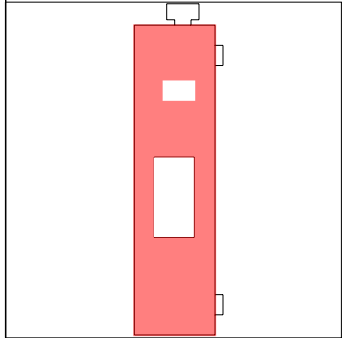
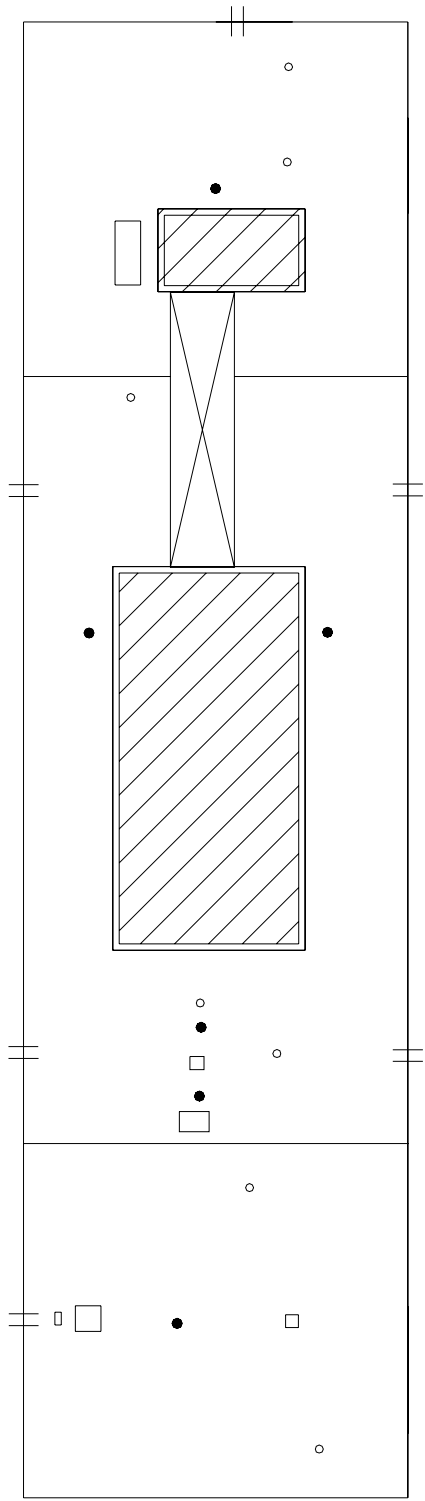
**Roof Access:** Room 440

**Total Area:** 31,946 sf

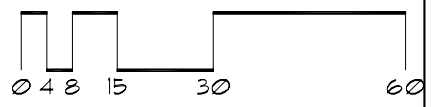
<b>A</b>	<b>29,331</b>	<b>E</b>	<b>90</b>
<b>B</b>	<b>1,800</b>	<b>F</b>	<b>336</b>
<b>C</b>	<b>299</b>		
<b>D</b>	<b>90</b>		



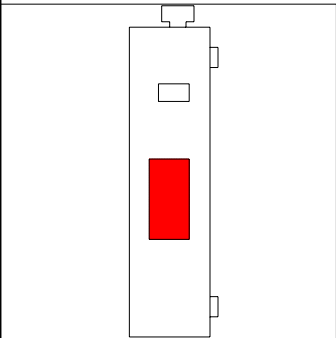
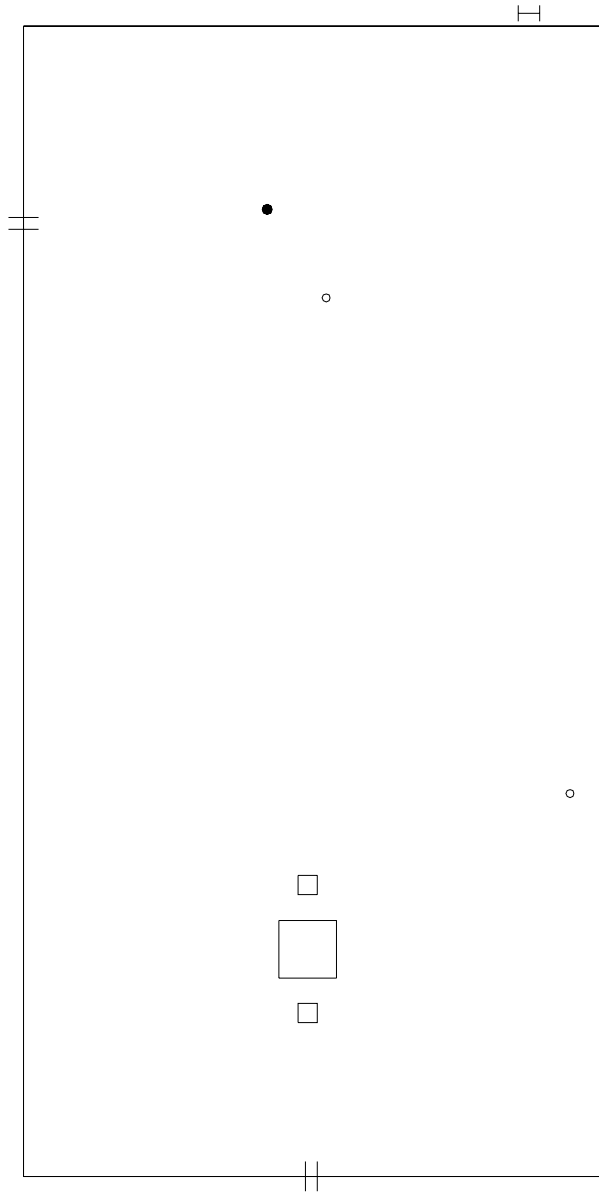
# Roof Corrective Action



- SYMBOLS KEY**
- VENT STACK
  - † SCUPPER
  - ROOF DRAIN
  - ROOF CURB
  - ▨ SKYLIGHT
  - ⊕ DEFECT-REPAIR
  - ⊖ DEFECT-NO REPAIR

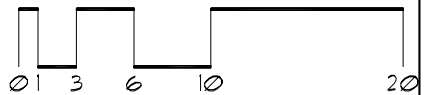


# Roof Corrective Action

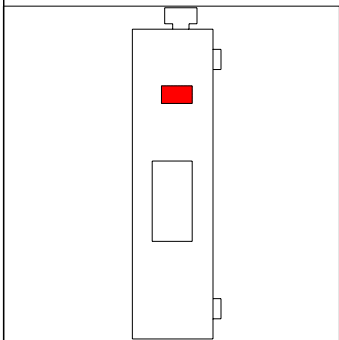
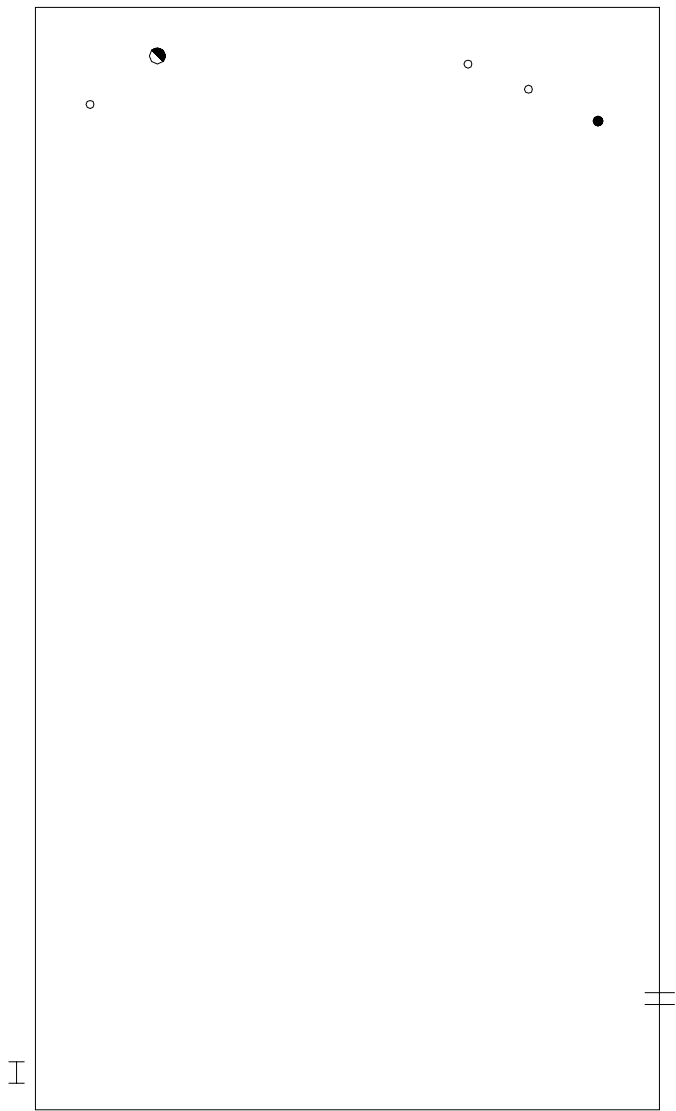


## SYMBOLS KEY

- || SCUPPER
- VENT STACK
- ROOF CURB
- ROOF DRAIN
- I LADDER

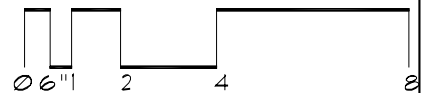


# Roof Corrective Action



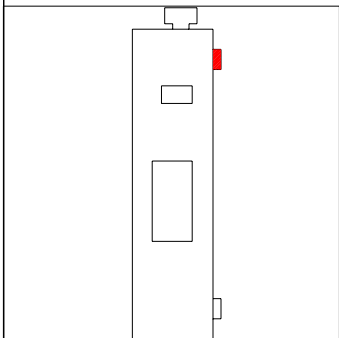
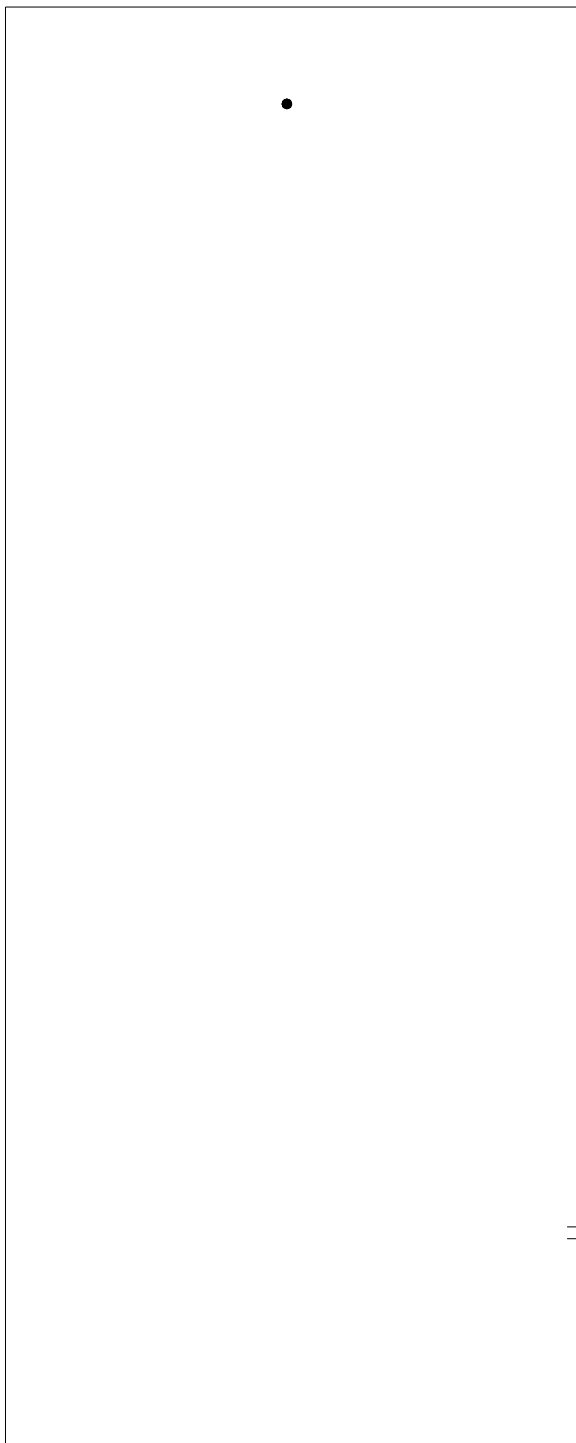
SYMBOLS KEY

†	SCUPPER
○	VENT STACK
●	ROOF DRAIN
I	LADDER



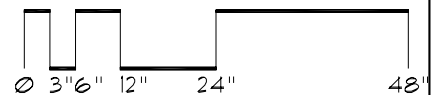


# Roof Corrective Action

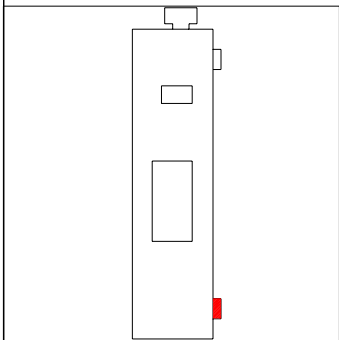
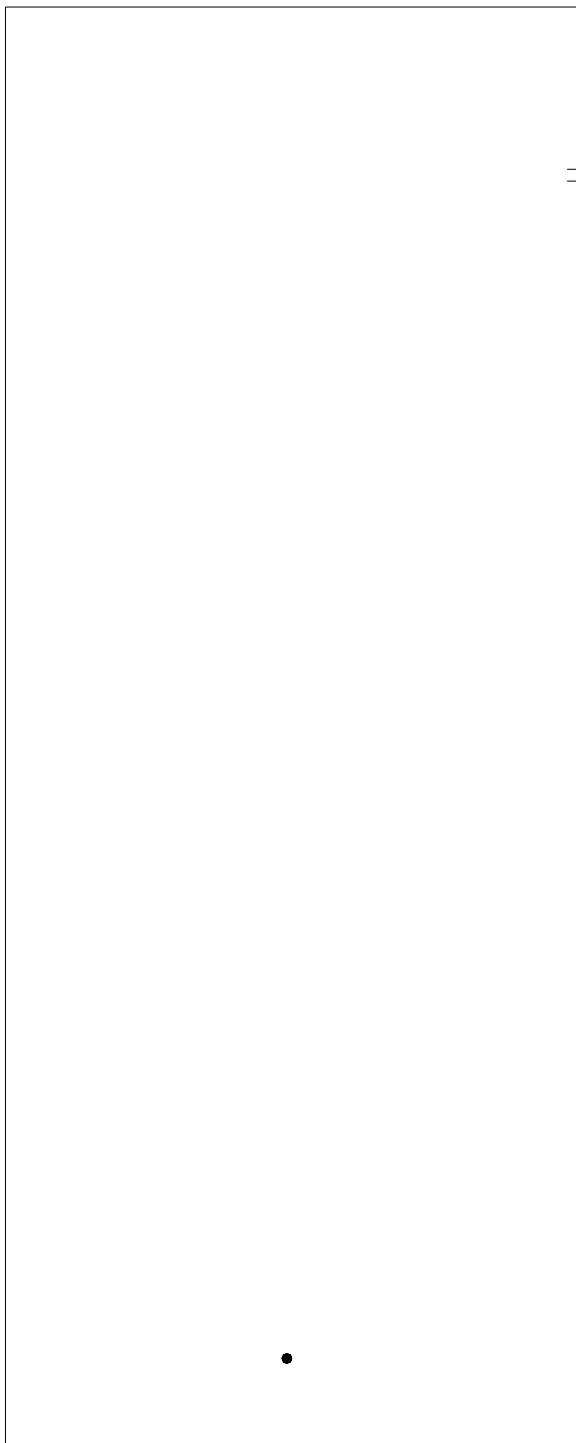


SYMBOLS KEY

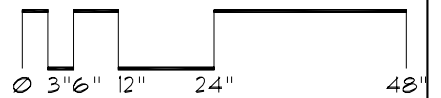
†	SCUPPER
•	ROOF DRAIN
Ⓢ	DEFECT-REPAIR



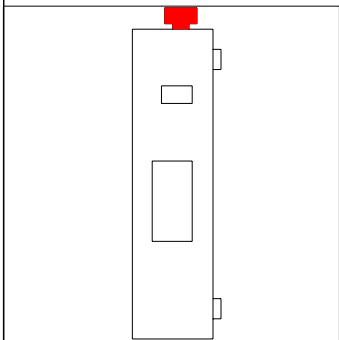
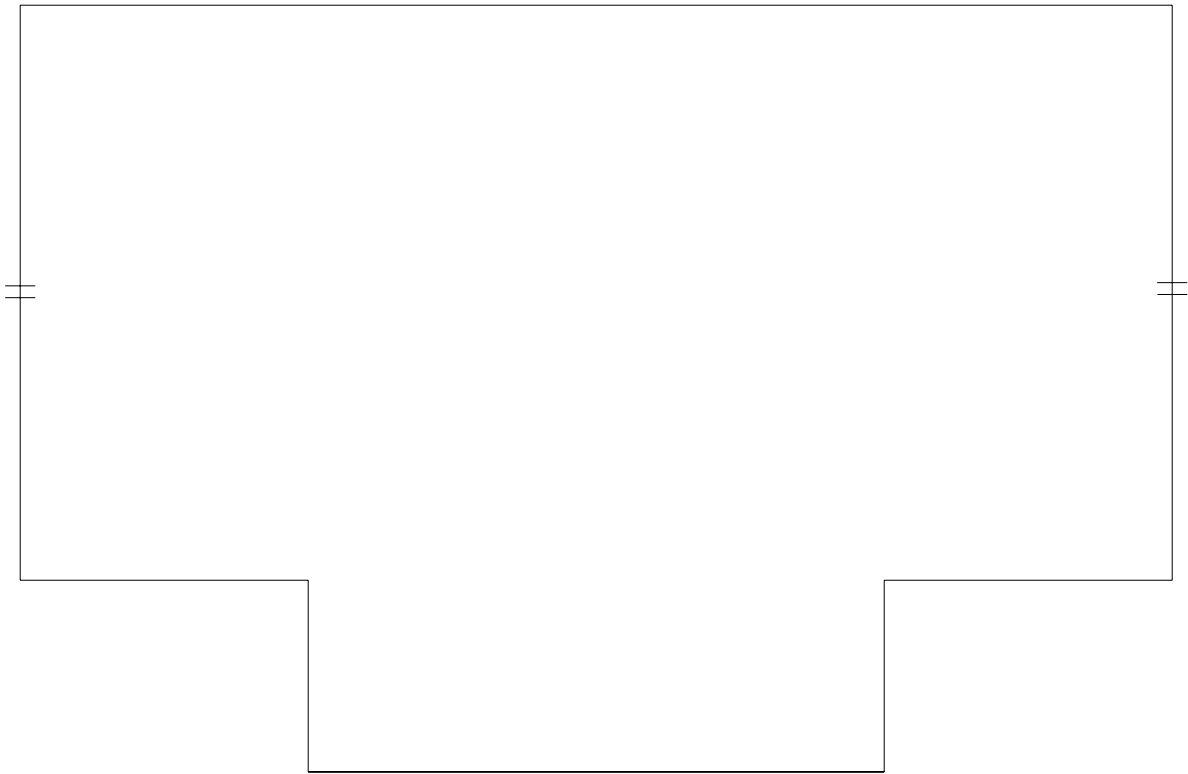
# Roof Corrective Action



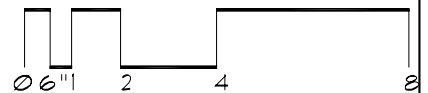
SYMBOLS KEY  
|| SCUPPER  
• ROOF DRAIN



# Roof Corrective Action



SYMBOLS KEY  
| † SCUPPER



# Roof ID

**Building:** EB268 - Peik Gym - (157 Pillsbury Drive Southeast)

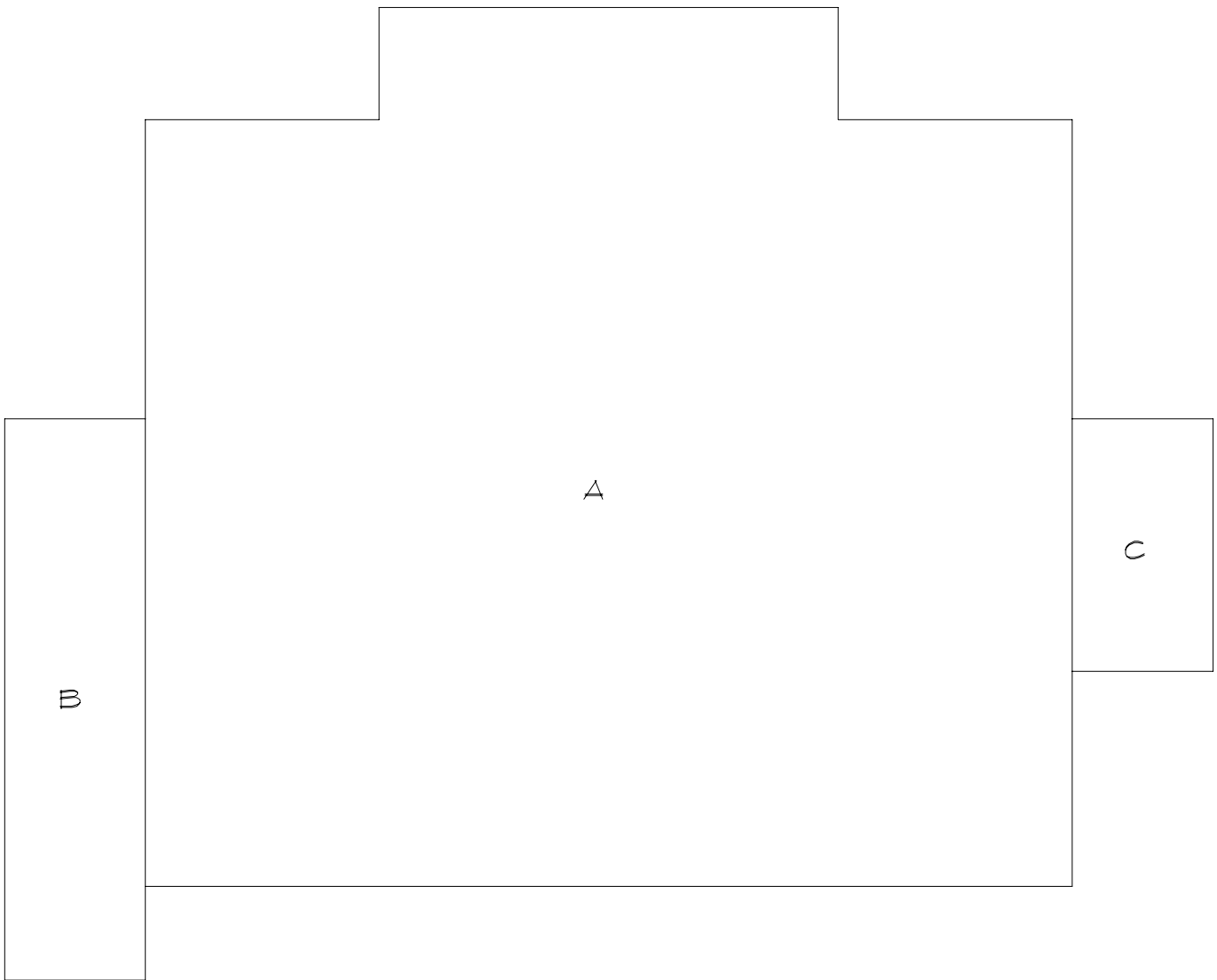
**Roof Access:** Through double doors in gym, out attic

**Total Area:** 10,011 sf

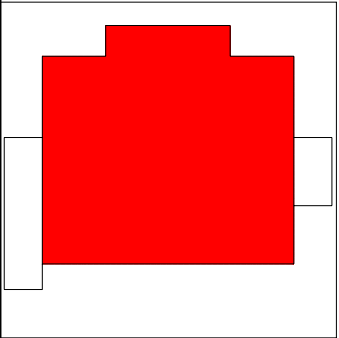
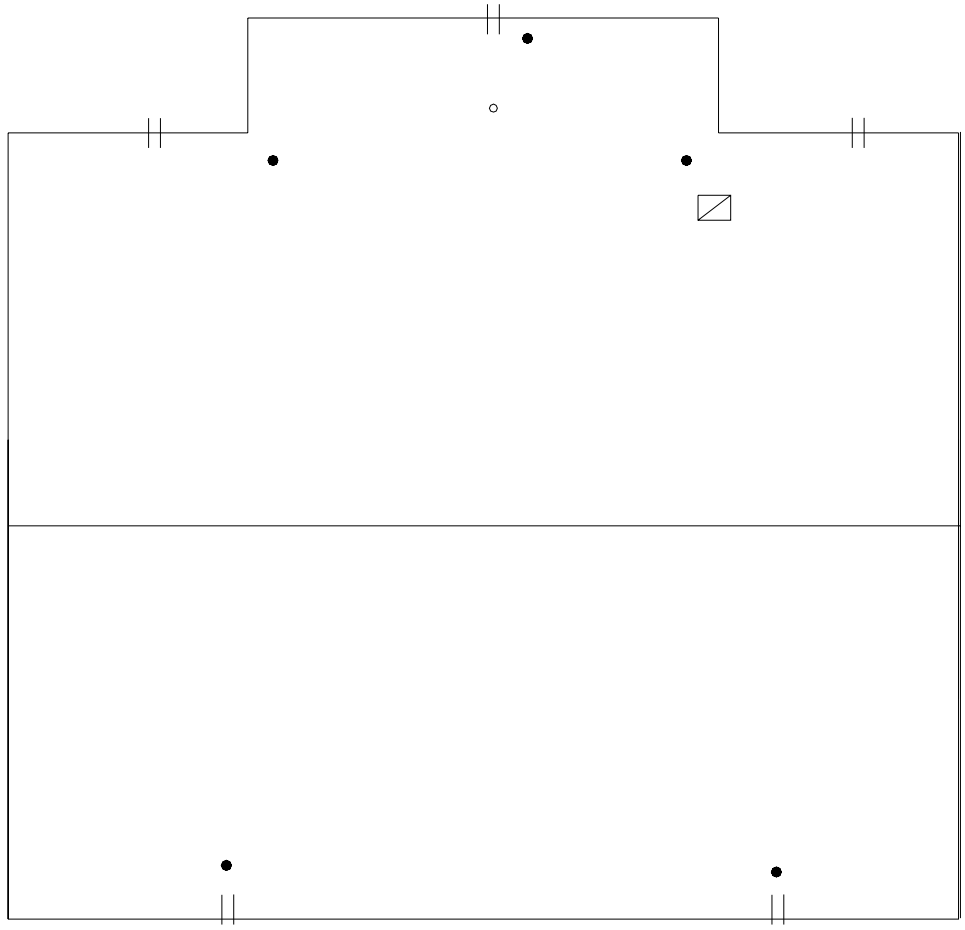
**A**      8,706

**B**      900

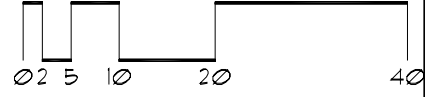
**C**      405



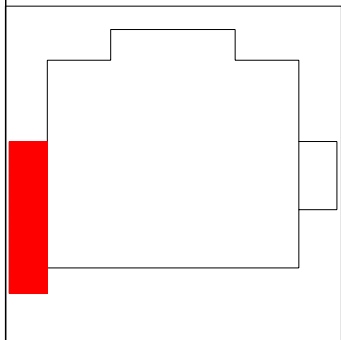
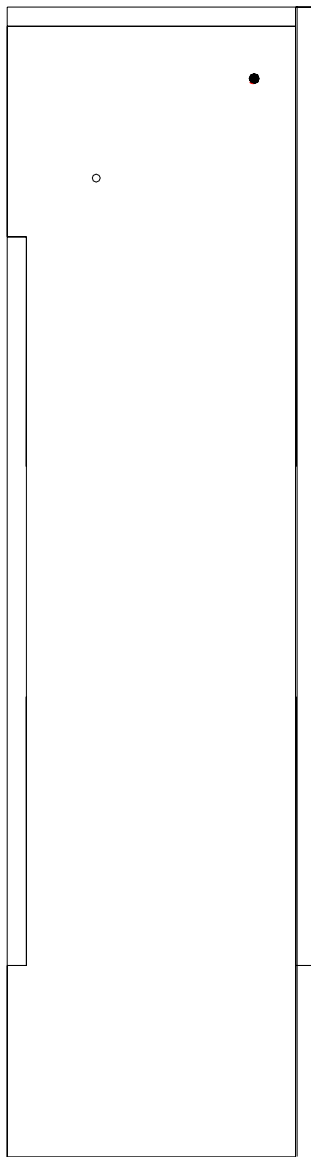
# Roof Corrective Action



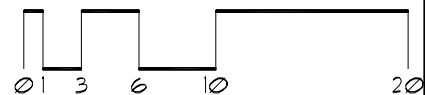
**SYMBOLS KEY**  
|| SCUPPER  
○ VENT STACK  
● ROOF DRAIN



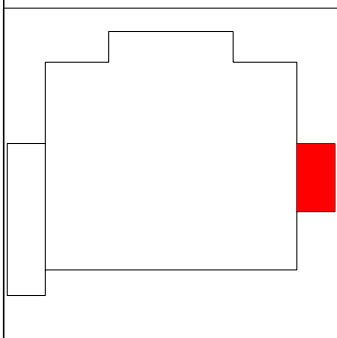
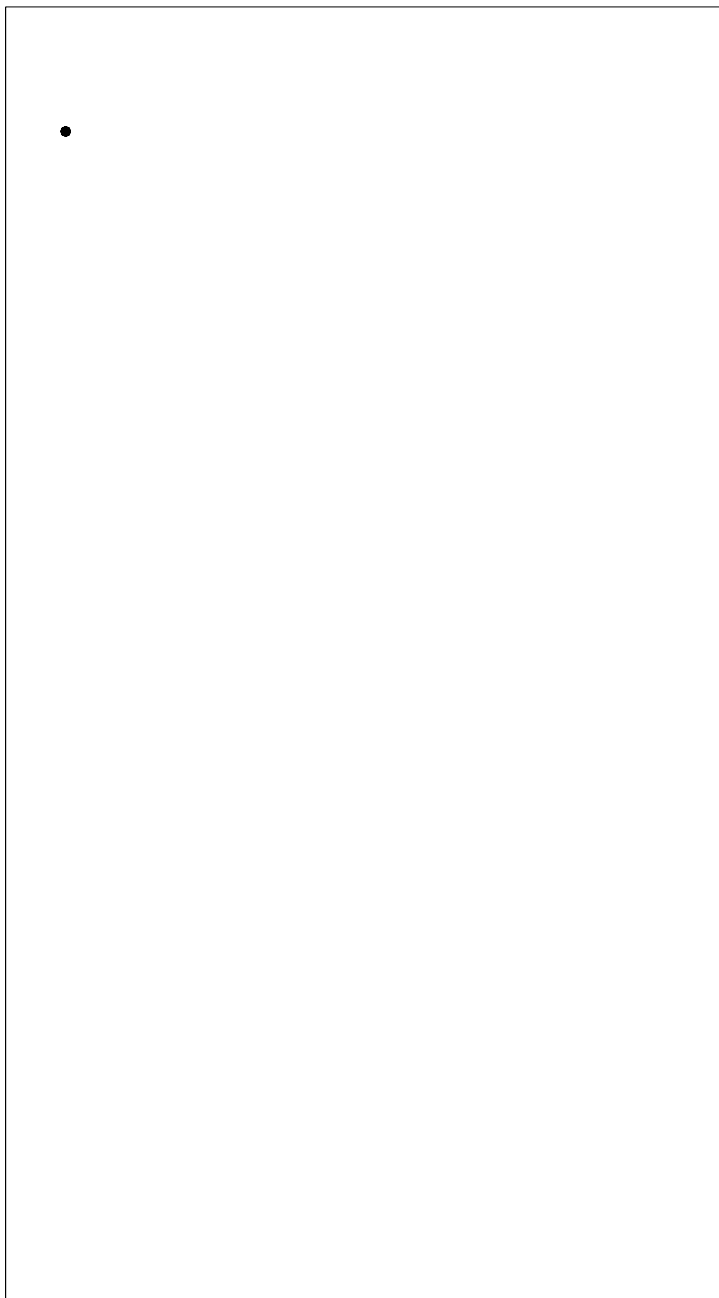
# Roof Corrective Action



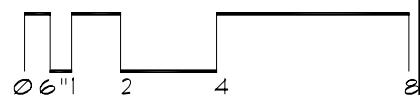
- SYMBOLS KEY**
- ROOF DRAIN
  - VENT STACK
  - Ⓜ DEFECT-REPAIR



# Roof Corrective Action



SYMBOLS KEY  
• ROOF DRAIN



# Roof ID

**Building:** EB269 - Heating Plant Storage - (1220 Mian Street SE)

**Total Area:** 2,604 sf

**A**      2,604

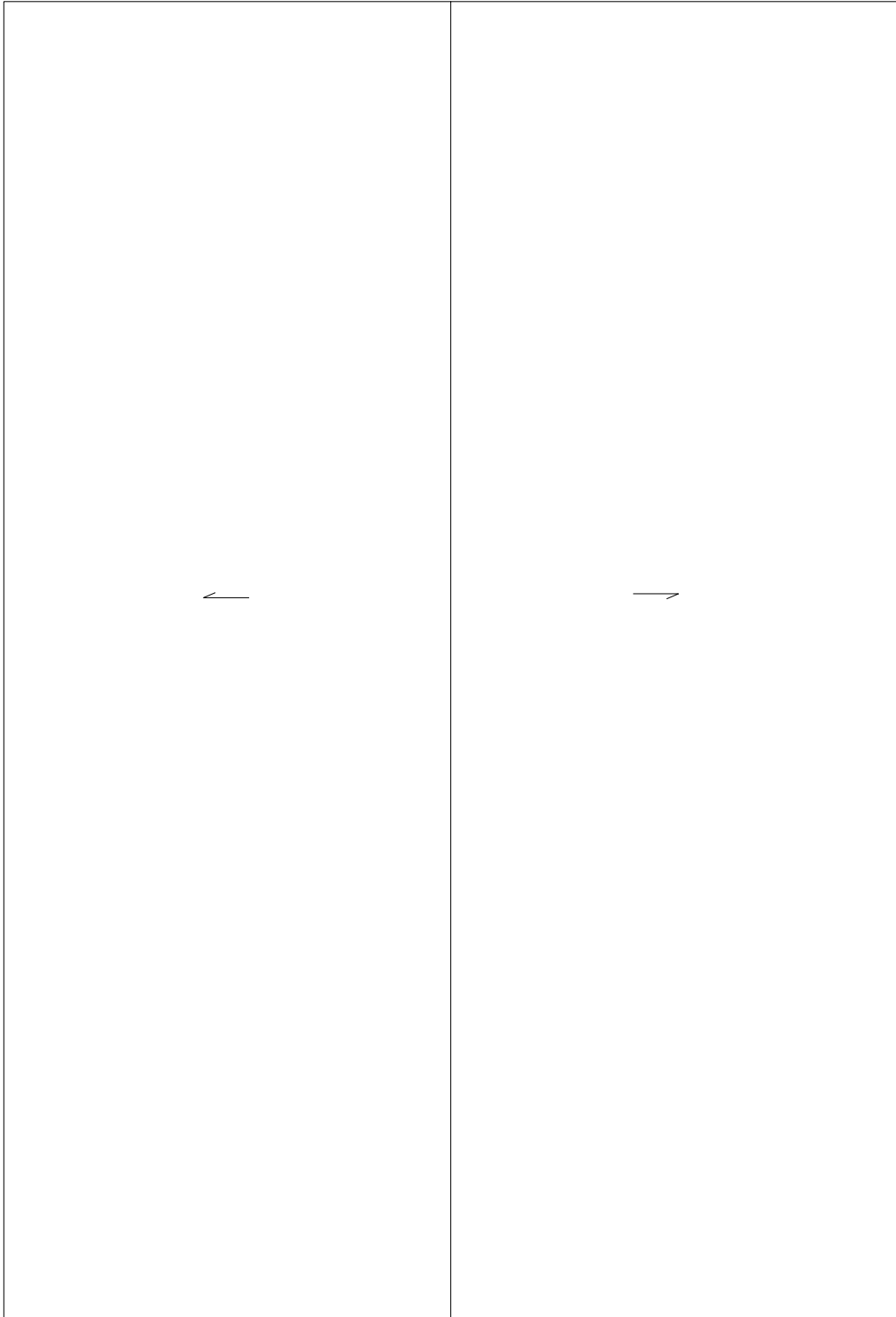
## SYMBOLS KEY

A	A
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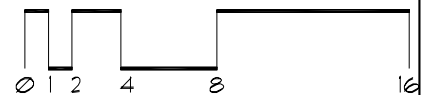




# Roof Corrective Action



SYMBOLS KEY  
→ SLOPE DIRECTION



# Roof ID

**Building:** EB299 - Science Teaching & Student Services - (222 Pleasant St. E)

**Total Area:** 22,392 sf

<b>A</b>	<b>11,000</b>
<b>B</b>	<b>7,176</b>
<b>C</b>	<b>3,958</b>
<b>D</b>	<b>258</b>

