

## COMPARISON OF ROOFING SYSTEMS

### MODIFIED BITUMEN SYSTEM - \$1,376,850

multi-ply system installed over insulated lightweight concrete roof deck. Roof slope – minimum ½” per foot

#### PROS:

- Positive Drainage
- Less Cost
- Warranty (Materials & Labor – NDL)
- No Gutters
- No Downspouts
- Any repair can be made more easily
- Less difficult to flash roof penetrations
- More easily re-roofed (insulated lightweight concrete deck)
- Greater competition from roofing manufacturers

#### CONS:

- Roof cannot be utilized as an architectural feature
- Some odor during application
- Can be more susceptible to weather conditions during installation
- Can be more susceptible to damage during construction

### STANDING SEAM METAL SYSTEM - \$1,574,135

metal roof panel installed over water shield membrane on rigid insulation over metal decking. Roof slope – minimum 2” per foot.

#### PROS:

- Positive Drainage
- Can be utilized as an architectural feature
- Roof drainage at perimeter (gutters & downspouts)

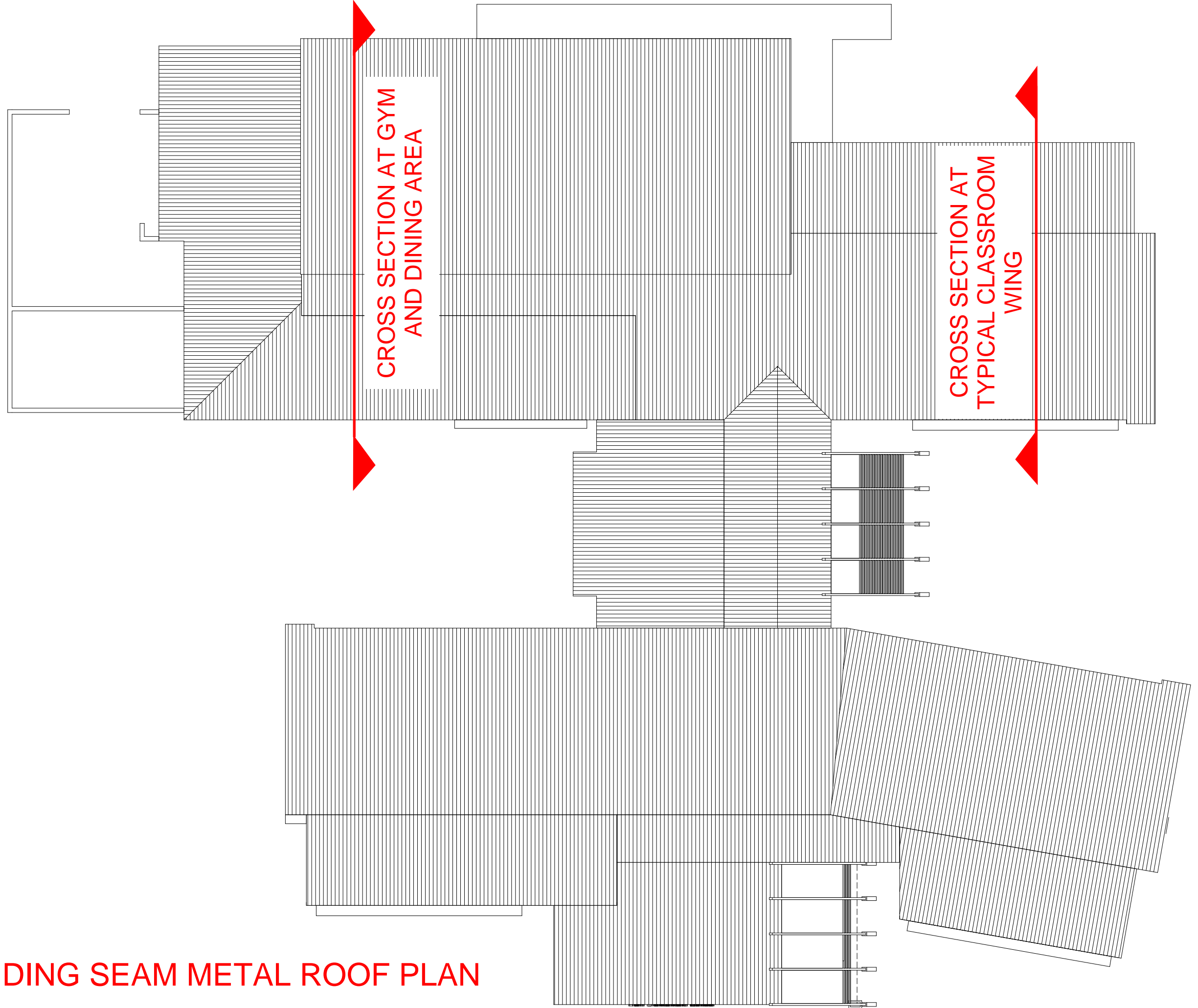
#### CONS:

- Higher Cost (Increase of \$197,285)
- Higher Warranty Cost (Materials & Labor)
- Increased Building Volume
- Gutters & downspouts more susceptible to collect debris in areas with trees
- Susceptible to Movement (expansion and contraction)
- Any repair is more difficult
- More difficult to flash roof penetrations
- More difficult to re-roof (rigid insulation)
- Limitations to roof configuration (keep it simple)
- Roof leaks can be more difficult to locate

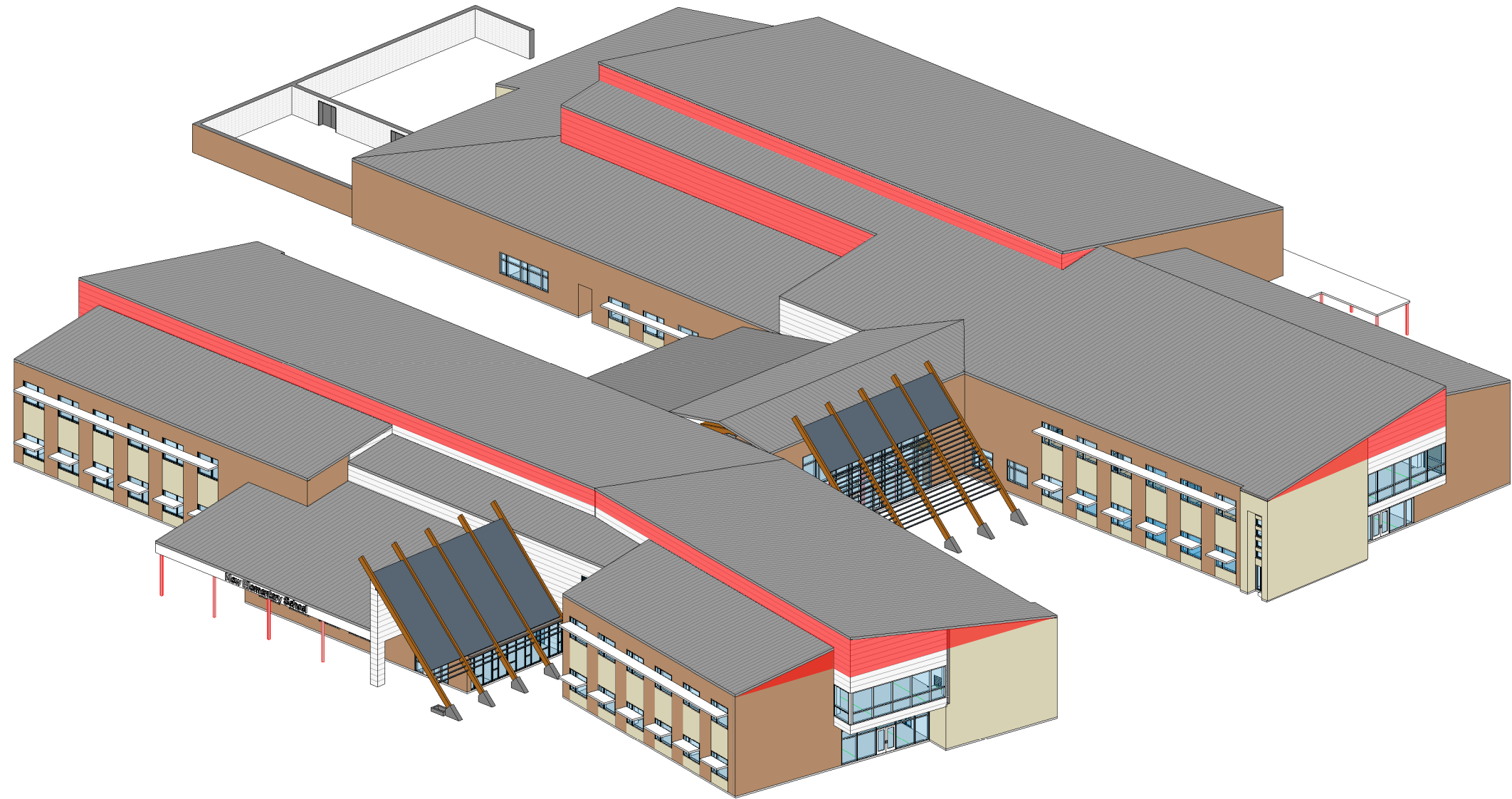




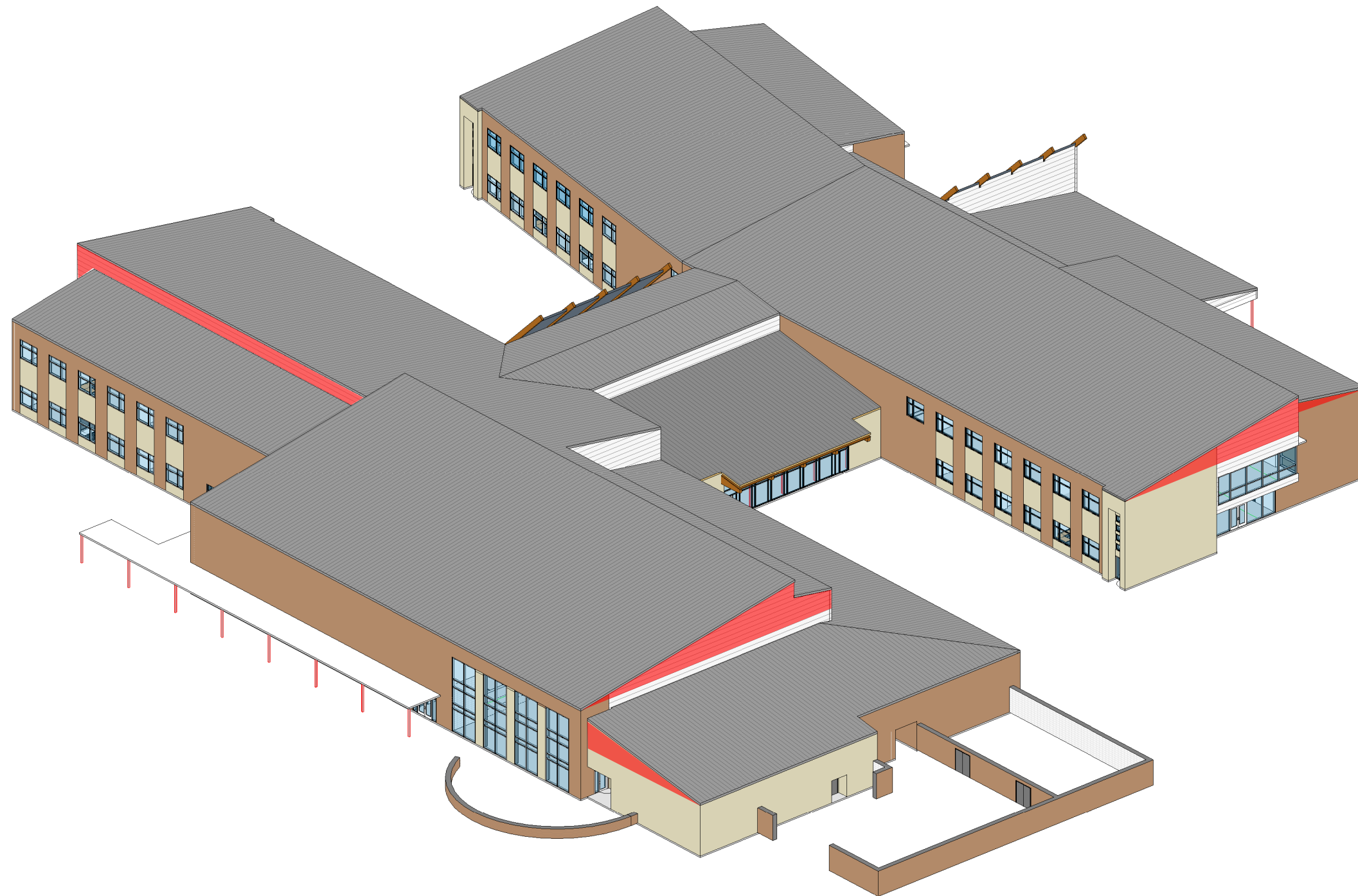
CROSS SECTION AT TYPICAL CLASSROOM WING



STANDING SEAM METAL ROOF PLAN

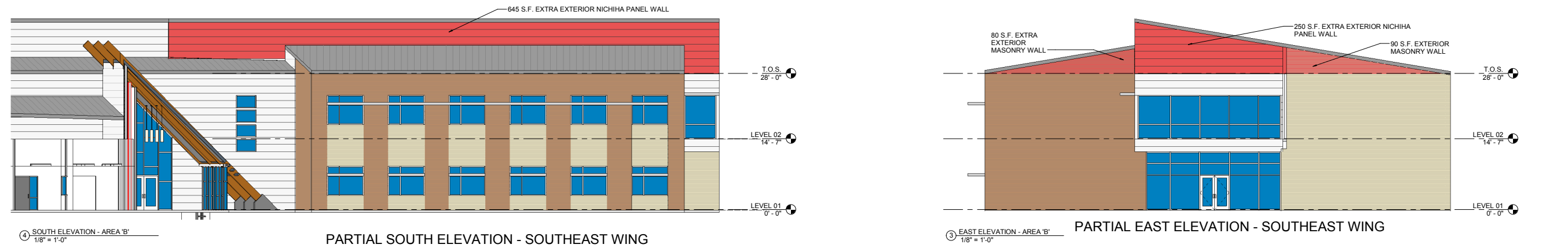
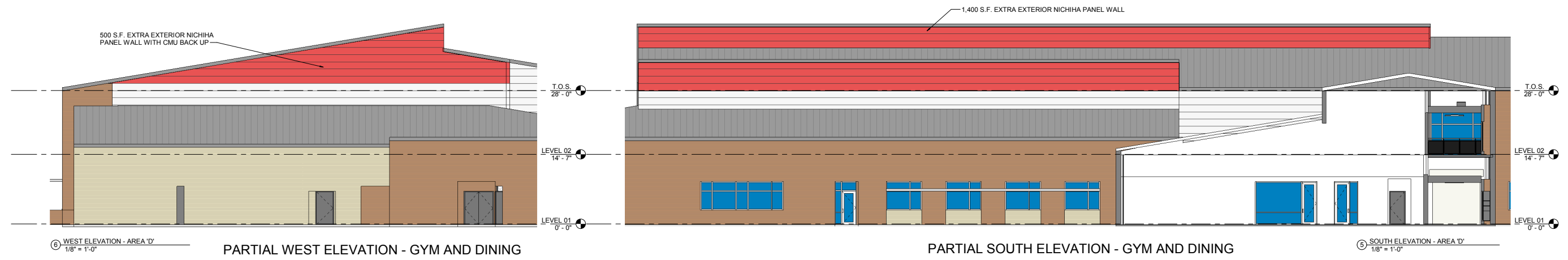
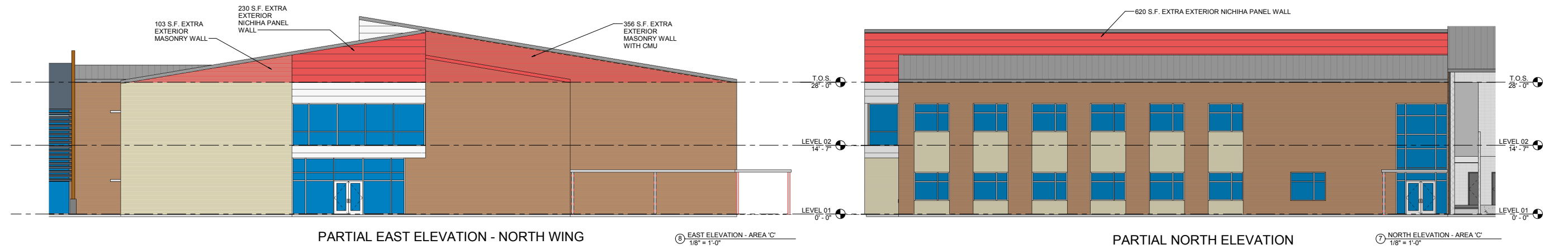


THE RED HATCHED AREA INDICATES THE EXTRA EXTERIOR WALL

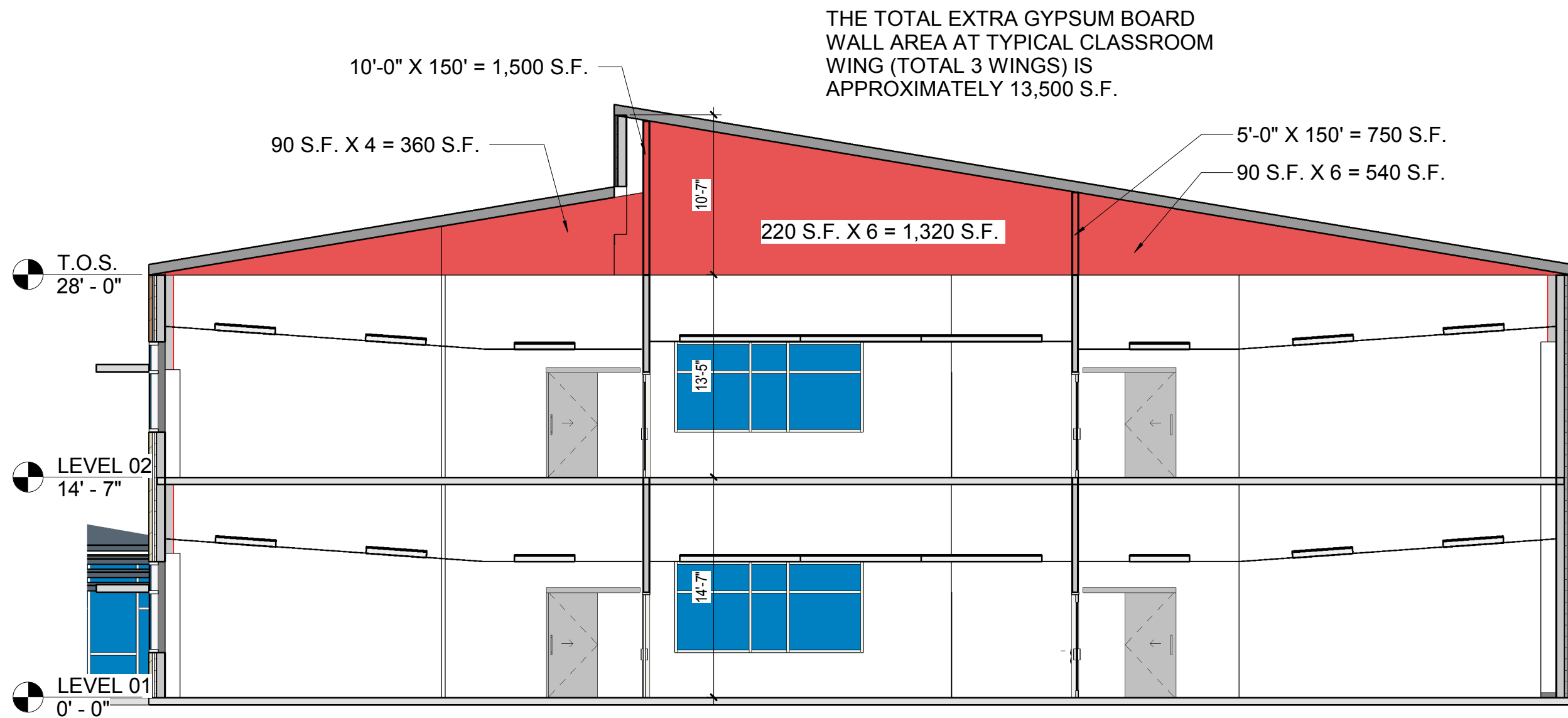


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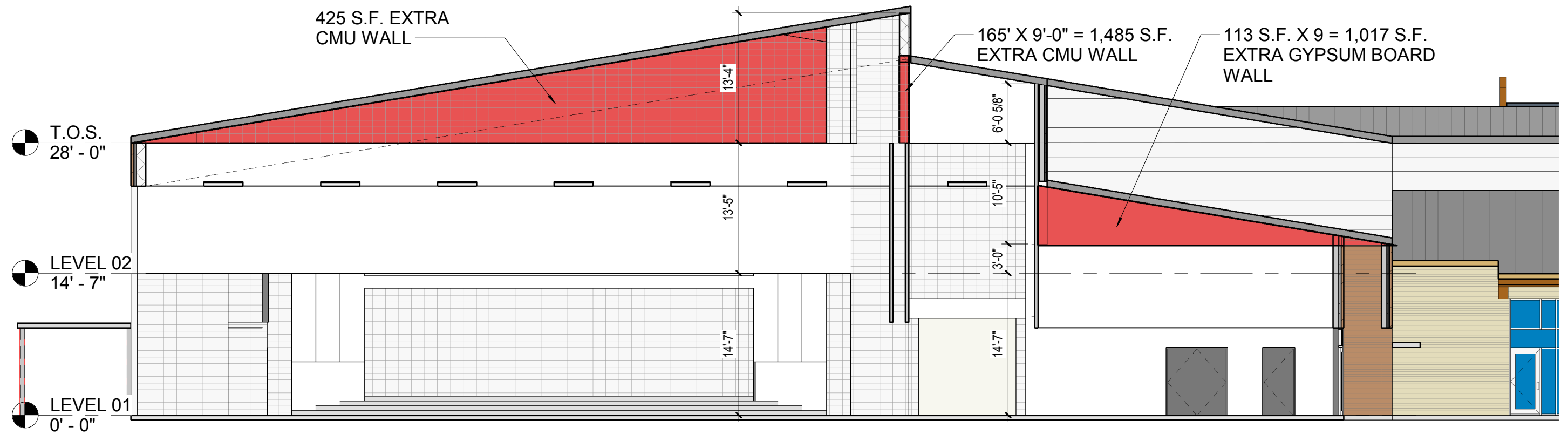


THE TOTAL EXTRA GYPSUM BOARD  
WALL AREA AT TYPICAL CLASSROOM  
WING (TOTAL 3 WINGS) IS  
APPROXIMATELY 13,500 S.F.

TYPICAL CLASSROOM WING SECTION

THE RED HATCHED AREA INDICATES THE EXTRA INTERIOR WALL





CROSS SECTION AT GYM AND DINING AREA

THE RED HATCHED AREA INDICATES THE EXTRA INTERIOR WALL