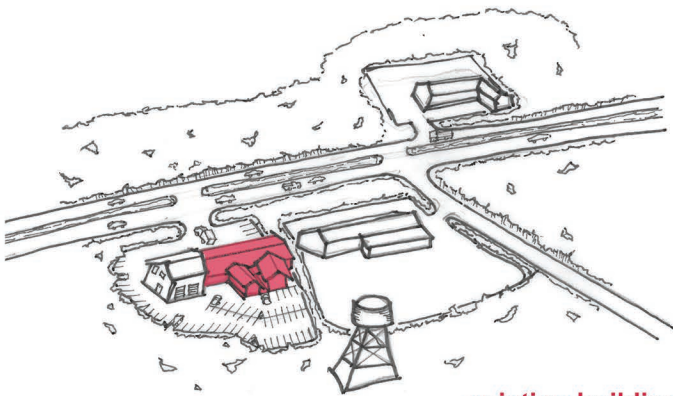




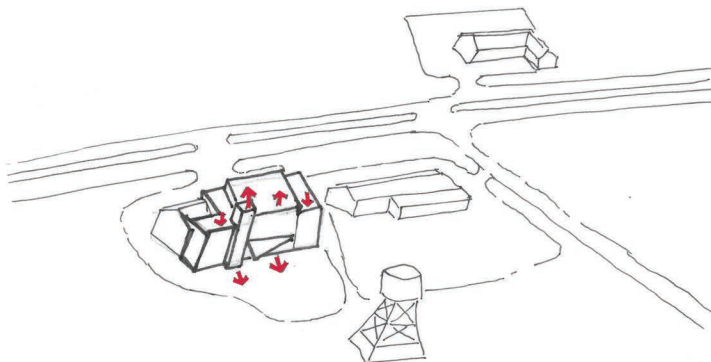
Prince Frederick Volunteer Rescue Squad #4
Calvert County, Maryland
Category: Professional Unbuilt Architecture

The design of this building was a result of analyzing carefully site conditions and client needs. The clients expressed that they wanted a space that would function as a rescue facility and simultaneously act as a gathering location for the community. The design footprint was largely set before design began and therefore thoughtful design decisions were necessary to create an interesting, intelligible elevation.



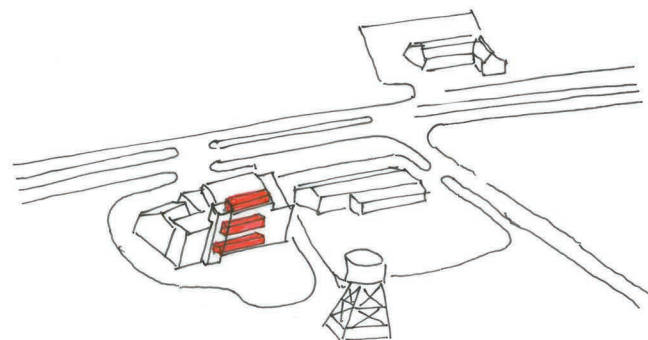
existing building

site surrounded by wooded area near bay. portion of building to be demolished in red



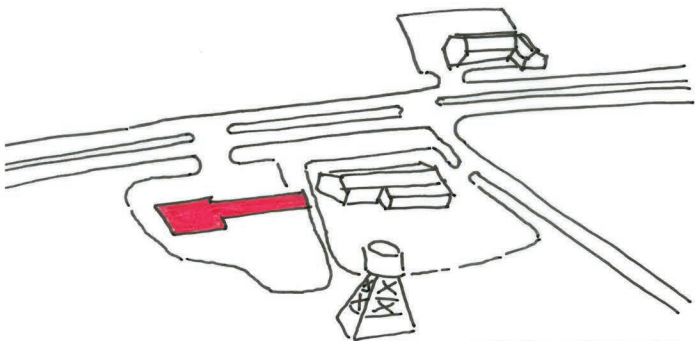
program

public areas are extruded up while private are pushed down



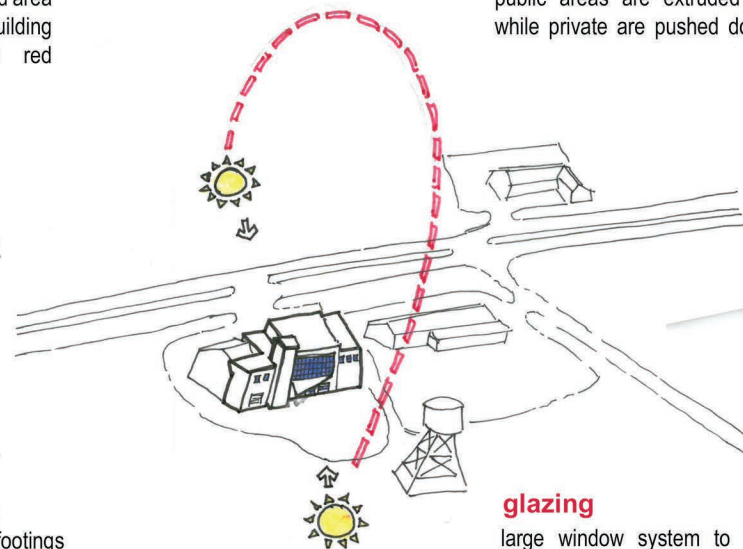
public circulation

stacked public circulation accessed through tower



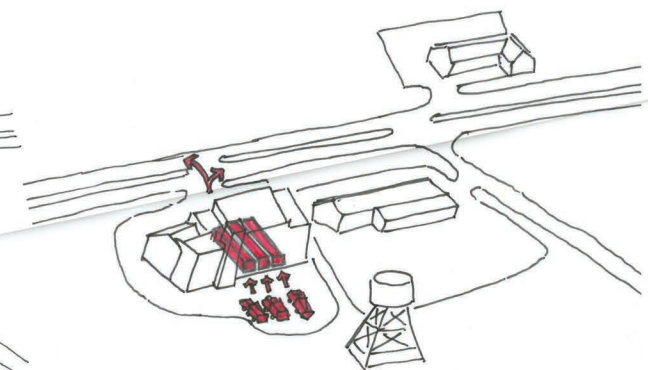
existing footprint

use of portion of existing footings to minimize soil disturbance



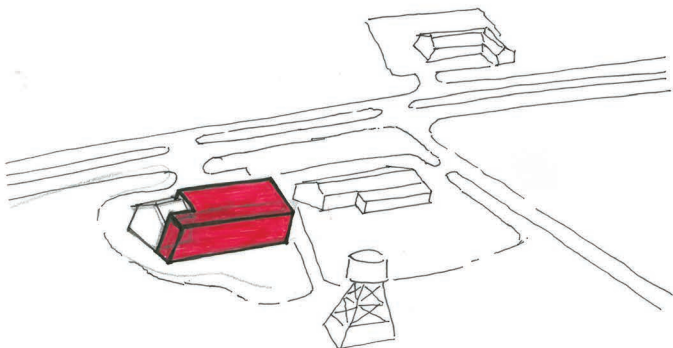
glazing

large window system to take advantage of east and west light



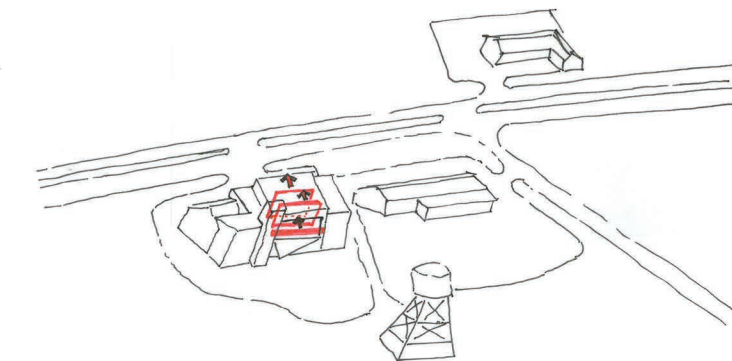
vehicle circulation

unobstructed ambulance access to adjacent road



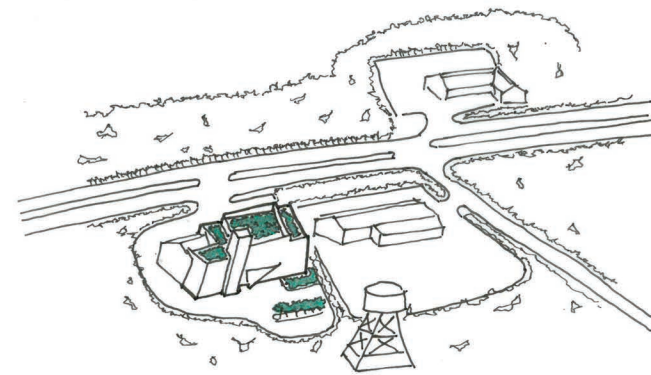
new footprint extruded

20 feet added to west side of building. Nine ambulances fit in expanded ambulance bay



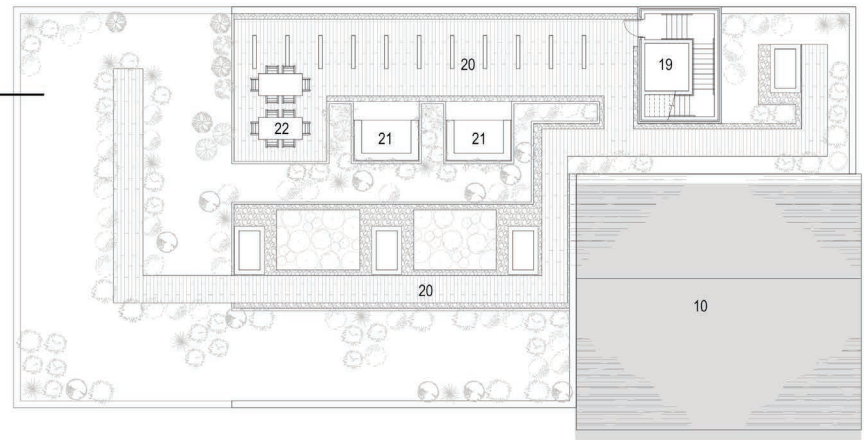
facade depth

depth in facade created by planes of varying transparency

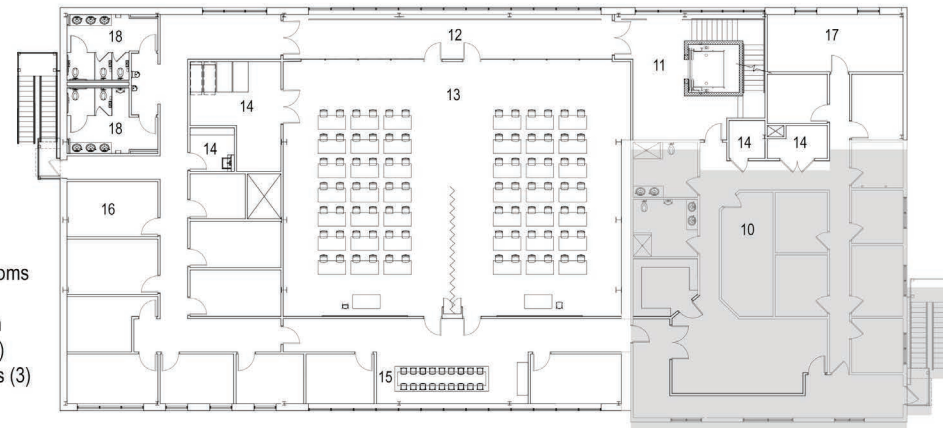


green roof

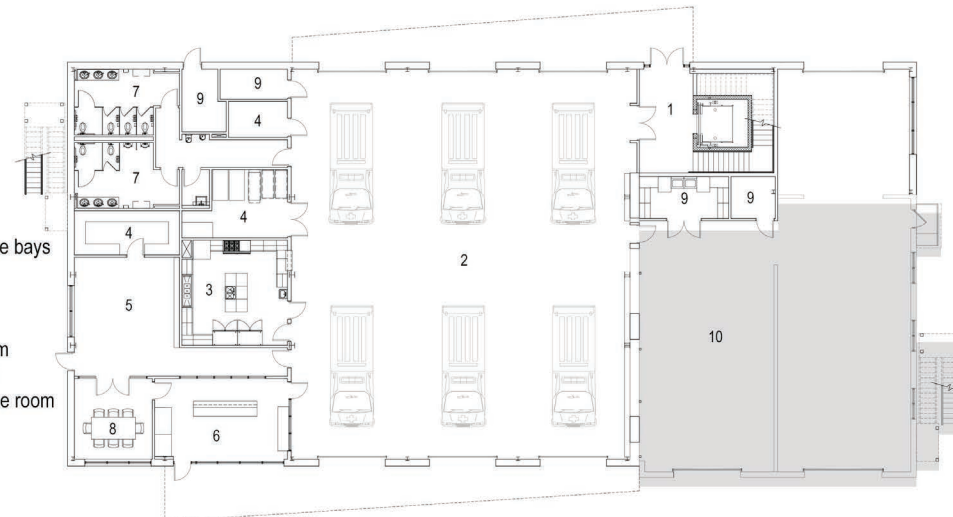
closed loop water system to utilize rainwater on site and to minimize the impact on the bay



19. elevator
20. walking path
21. bench
22. seating



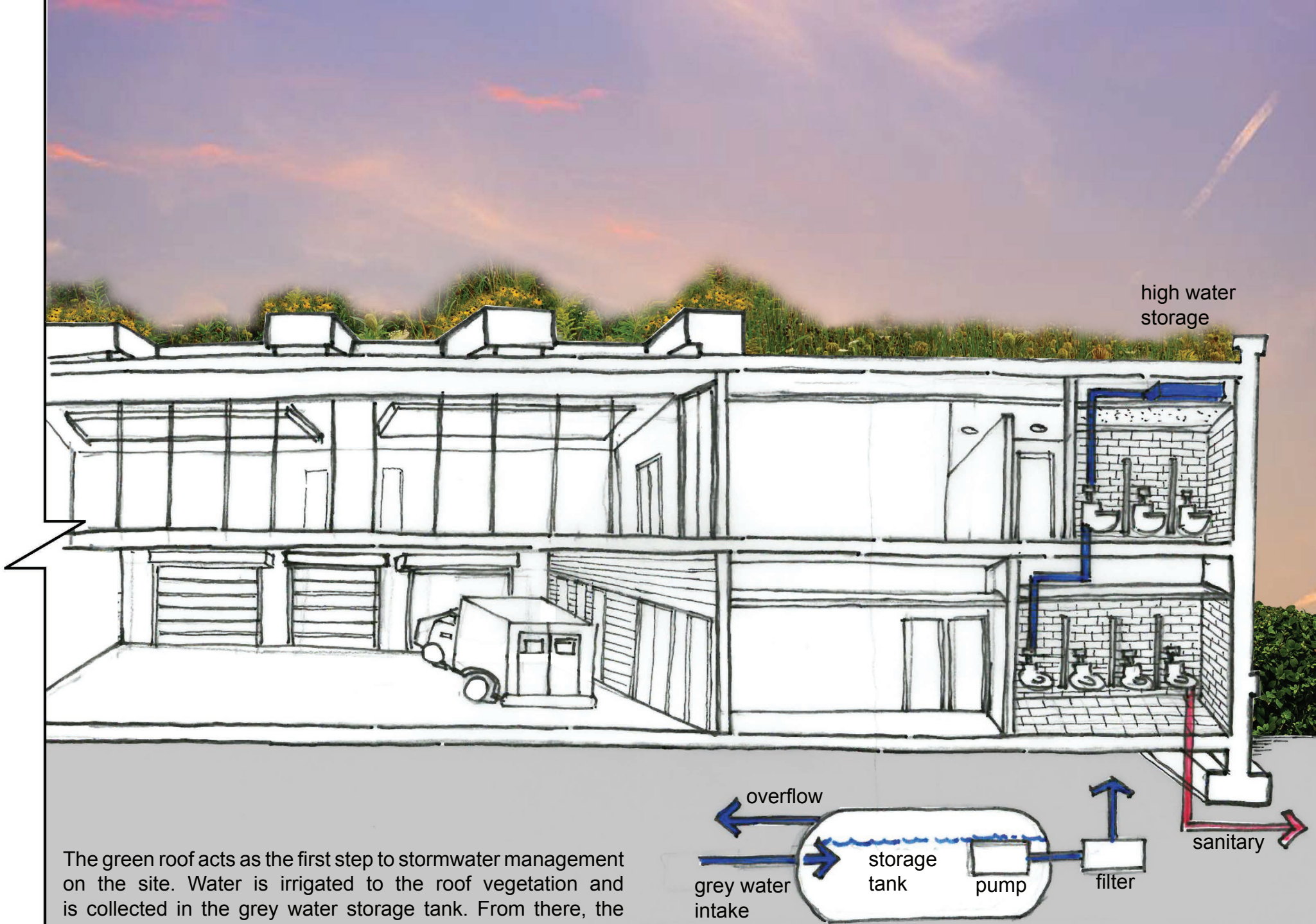
11. vestibule
12. corridor
13. training rooms
14. storage
15. breakroom
16. offices (10)
17. bunkrooms (3)
18. bathroom



1. vestibule
2. ambulance bays
3. kitchen
4. storage
5. lounge
6. watchroom
7. bathroom
8. conference room
9. utility
10. existing

Bound largely to the existing perimeter of the building, the plan is a rectangle without protrusions. Transparency in elevation is used to create hierarchal space. The largest and most public areas, the training room and the ambulance bay are the most visible to the outside.

Plans



The green roof acts as the first step to stormwater management on the site. Water is irrigated to the roof vegetation and is collected in the grey water storage tank. From there, the water is pumped through a filter and transferred to the storage tank located above the 2nd floor ceiling. The grey water can be utilized for the water closets, wash bay and vegetation.

Sustainable Building Design



The threshold space depicts an abstracted design of the rescue center crest with its company number 4. The crest is frosted against the glass allowing a person entering to see into the ambulance bay beyond.

..... Vestibule Space



The bay perspective depicts the ambulance bay area during a community summer cook out. The sectional doors are raised allowing people to come and go freely. Tracks are located under beams for lights and decoration.

..... Bay Area



This perspective depicts the red railing which serves as an accent to the exterior of the building. Between the railing and glass curtain wall beyond there is a slot space connecting the occupant to the floor below

..... Circulation Space



The training room(s) look out to the green landscape beyond. The plank wood tiles in the circulation space bleed into the training rooms creating an organizing line in plan to begin placing training room furniture.

..... Training Room



The linear hanging lights of the second floor are projected into the ground of the roof deck creating a similar rhythm. Both cove seating and dining seating is designed to integrate with the surrounding garden.

Roof Garden and Deck