

# Mountian Hotel

Virginia

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Structural Option

## Overview

- 6 Story Hotel in urban Virginia
- 82,000 SF Hotel with a 40,000 SF Parking Structure
- 62ft roof height
- Design/Build



## Project Team

- Owner: Not released
- General Contractor: not available at this time
- Acrhitect: Enviro Architects
- Civil: Walter L. Phillips inc
- Structural: Allince Engineers
- MEP: EPIC consultants

## Architecture

- Colored EIFS tiles to reflect brick and concrete of surrounding buildings
- Large arch vaults supporting ramp leading to parking structure
- Porte-cochere covering entrance leading to main lobby and parking

## MEP

- Separate through wall heat pumps for each guest room
- Constant Volume system for common and assembly areas

## Structural

- Foundation comprised of reinforced concrete spread footings with 4 in thick slab on grade
- HSS for interior columns
- Light gauge steel stud bearing walls support most of the exterior walls and upper floors.
- All above grade floors are constructed using precast hollow core planks
- Flat strap bracing employed for lateral system in steel stud shear bearing walls (shown in Figure 1)

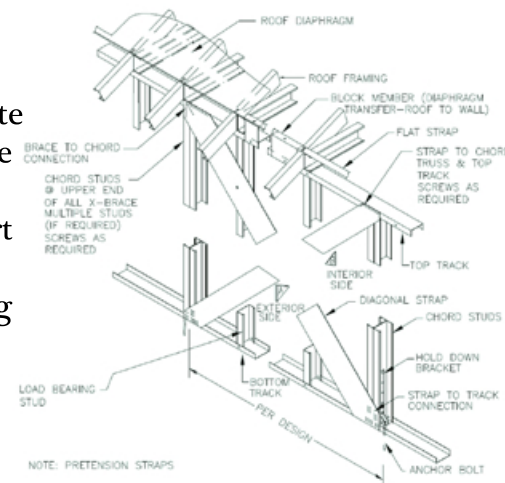


FIGURE 1