

Cedar Creek Development V

“Green Building” Specifications

SITE

Design building to site conditions to:

- Minimum cut and fill
- Maximum daylight
- Maximum north / south exposure
- Minimum damage to existing trees & vegetation

Maximum green space directly around the building

Landscape to be “xeriscape”

- Shrubs / Trees
 - Low water usage
 - Native types
- Turf
 - Prairie type grasses
 - Low water usage
 - Low fertilization required
 - Minimum chemicals and pesticides
 - Minimum mowing and maintenance

ENERGY

Energy Efficient Thermal Sheel

- R-5 Slab Edge Insulation
- R-25 Wall Insulation
- R- Roof Insulation
- U-35 Low E Glazing

Energy efficient **Pella** operable awning windows for natural ventilation

Front air lock entry – Non-conditioned space

High efficiency HVAC

Individual zoned VAV System

DDC control system using with off occupancy setback and maximum outside air economizing program
T-8 fluorescent lighting with electronic ballast
2' 4' overhangs for summer sun control
Minimized outside air exchange based on monitored air quality
Minimize east / west glazing – Maximize north / south
Light colored roofing material
Motion detector / computer program for interior lighting
Photocell / computer program for exterior lighting

AIR QUALITY

No gas HVAC / hot water
Operable windows
Indoor air monitored for carbon monoxide and relative humidity
No fiber glass material used anywhere in HVAC distribution system

BUILDING MATERIALS

30 Year Roofing materials – copper and concrete tile
Engineered Wood – glue lams
Masonry stucco exterior
All steel studs on 24 o.c.

RECYCLING

Stockpile and reuse site topsoil
Rock on site use:
 Use existing rock formations split face for retaining walls
 Stack for retaining walls
 Use as landscape rock
 Crush and reuse as sub-base
No wood or building material buried on site
Trees and brush cleared on site and chipped for reuse as mulch
Rainwater is dissipated for minimal soil erosion and maximum use landscape absorption.