



## Key Sustainable Design Elements

### Green roof

15,741 SQUARE FOOT INTENSIVE VEGETATED ROOF - AVERAGE 9" DEPTH  
 PROVIDES EVAPORATIVE COOLING CAPACITY OF 65 TONS HVAC CAPACITY  
 OFFSETS SOLAR RADIATION EQUIVALENT TO 79 TONS HVAC CAPACITY  
 PRODUCES 2,134,538 POUNDS OF OXYGEN PER YEAR - SUPPORTING 974 PEOPLE  
 PROVIDES SPRAYFIELD FOR ON-SITE AEROBIC SANITARY TREATMENT SYSTEM  
 RETAINS 73% OF ALL RAINFALL THAT TOUCHES THAT SURFACE - 330,000 GALLONS/YEAR

### Rainwater harvesting/condensate water harvesting

320,000 GALLON UNDERGROUND CISTERN  
 ALL IRRIGATION SUPPORTED BY UNDERGROUND CISTERN - NO CITY CONNECTION  
 CAPTURES 84,000 GALLONS PER YEAR CONDENSATE

### Gray Water System

HOUSTON'S FIRST APPROVED COMMERCIAL RECLAIMED (GRAY WATER) SYSTEM

### Building orientation

DUE EAST - WEST PRIMARY AXIS WITH ALL GLAZING SHADED  
 90%+ OF INTERIOR SPACES PROJECTED WITH ACCESS TO EXTERIOR VIEW

### Equipment

HIGH EFFICIENCY CHILLED WATER COOLING SYSTEM  
 HEPA FILTRATION + SIGNIFICANT CO2 MONITORING + TREATED FRESH AIR  
 SOPHISTICATED BUILDING ENERGY MANAGEMENT SYSTEM

### Building Type

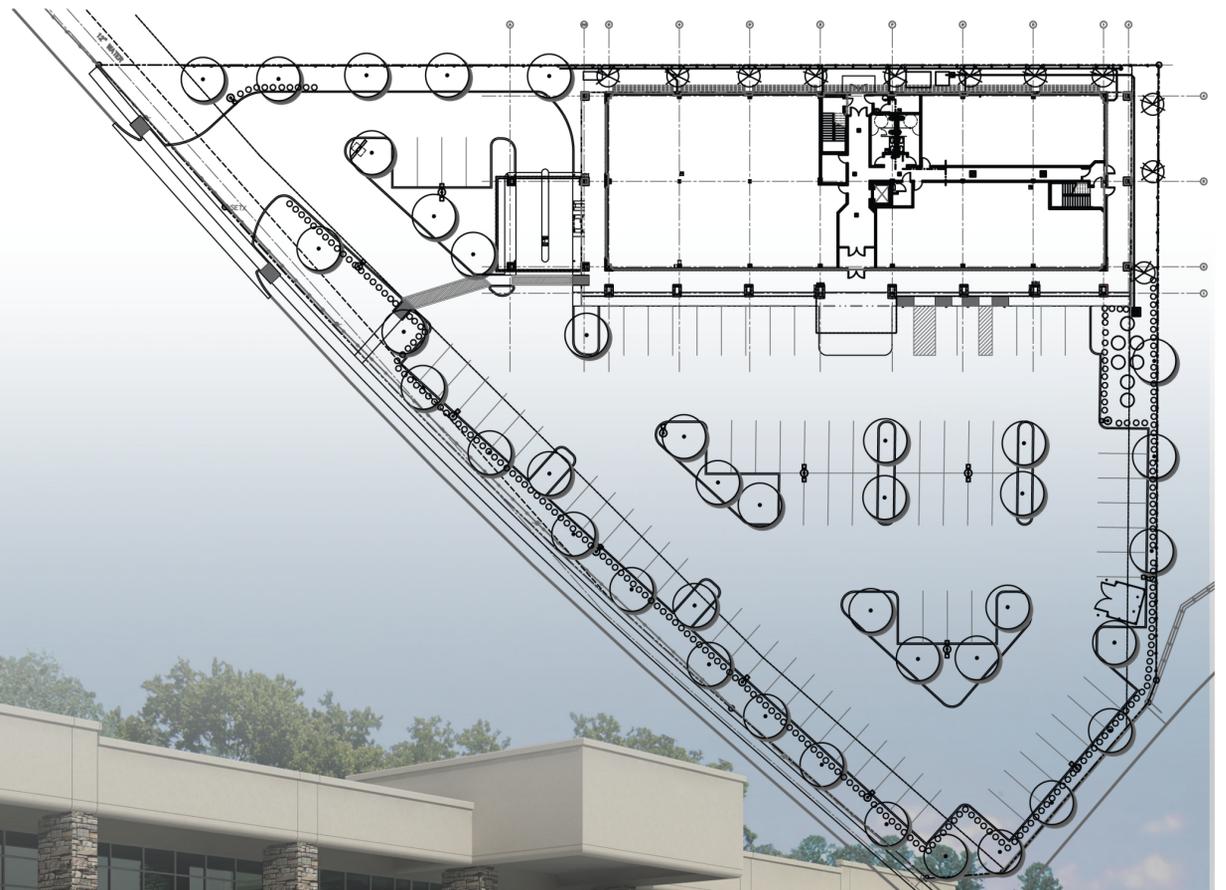
2 STORY, PROFESSIONAL OFFICE BUILDING WITH BANK FACILITIES  
 AREA = 24,084 SQUARE FEET CONDITIONED + BALCONIES

### Results for FC Gulf Freeway Office Building

ENERGY USE INTENSITY (EUI) = 81kBTU/SF/YR  
 PERCENT CO2 REDUCTION = 54%  
 ENERGY STAR DESIGN RATING = 95

### Annual Savings Statistics

ENERGY SAVINGS = 2,700,000 kBTU  
 CO2 SAVINGS = 143 METRIC TONS CO2



**FC GULF FREEWAY 12941 GULF FREEWAY HOUSTON, TEXAS**



The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

