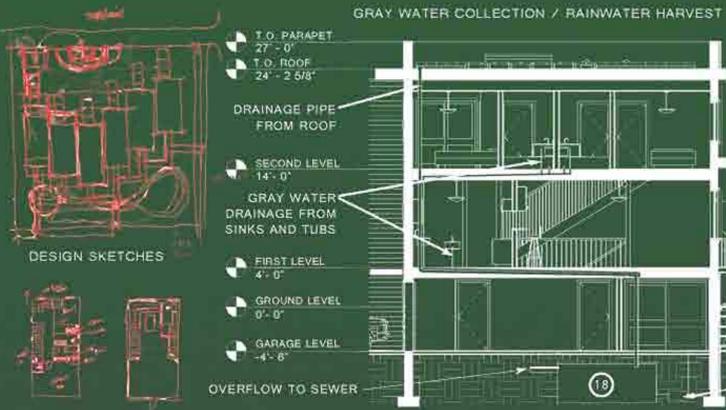


BEARDEN PLACE: NORTH MINNEAPOLIS "ARTISTS' CORE"

BEARDEN PLACE IS LOCATED IN WHAT IS NOW CALLED THE "ARTIST CORE" IN NORTH MINNEAPOLIS. THIS CULTURALLY DIVERSE NEIGHBORHOOD, LIKE OTHERS IN NORTH MINNEAPOLIS, HAS EXPERIENCED FAR TOO MANY FORECLOSED PROPERTIES. OUR DESIGN PROVIDES AFFORDABLE, SUSTAINABLE HOUSING UNITS THAT ARE DEFINED BY A FLEXIBLE, OPEN FLOOR PLAN THAT FEATURES ALL OF THE AMENITIES NECESSARY FOR A FAMILY TO FUNCTION AND EXCEL WITH DIGNITY.

OUR DESIGN INTENT PROMOTES MINIMAL WATER RUN-OFF FROM THE SITE. BY USING VARIOUS METHODS SUCH AS RAINWATER COLLECTION, RAIN GARDENS AND NATIVE PLANT MATERIALS, ALL WATER WILL BE RECYCLED ON SITE. FEATURING OTHER GREEN MEASURES INCLUDING PASSIVE COOLING AND RECYCLED MATERIALS, OUR "ARTIST CORE" RESIDENCES WILL PROVIDE THE OWNERS WITH EFFICIENT, AFFORDABLE AND SUSTAINABLE LIVING.



BUILDING COST:
OUR BUILDING COST CAME TO \$123.10/SF. AT THIS RATE, OUR PER UNIT COST WOULD BE \$197,762.

THE TOTAL BUILDING COST WOULD BE \$1,186,570. TO MEET THE PROPOSED BUDGET, THE GEOTHERMAL HEATING/COOLING WOULD NEED TO BE REMOVED FROM OUR COST ESTIMATION ONCE THAT COST IS REMOVED, OUR BUILDING COST WOULD BE ABOUT \$110/SF.

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	INSULATED CONCRETE FORMS (ICF) - BASEMENT WALLS AND FOOTING				
2	GEOTHERMAL HEATING SYSTEM W/ HYDRONIC PUMP				
3	TANKLESS WATER HEATER				
4	WASHER/DRYER COMBO				
5	COVERED ENTRY				
6	COMPOSITE WOOD DECKING				
7	HARDWOOD FLOORS				
8	STRUCTURALLY INSULATED PANELS (SIPS)-R32 WALLS, R-48 ROOF				
9	RECYCLED GLASS/CONCRETE COUNTER TOP				
10	SUPER EFFICIENT HOME APPLIANCES				
11	CASEMENT WINDOWS - LOW-E INSULATED GLASS W/ ARGON				
12	DUAL FLUSH LOW-FLOW TOILETS				
13	RADIANT-FLOOR HEATING SYSTEM				
14	CORRUGATED METAL				
15	NATIVE PLANTS/TREES				
16	PAVERS				
17	RECYCLE/COMPOSTING CABINETS				
18	GREY WATER COLLECTION				
19	GREEN ROOF SYSTEM				
20	SOLAR TUBES FOR BATHROOMS				
21	PUBLIC ART/COMMUNITY GREEN SPACE				
22	BICYCLE PARKING				
23	RAIN GARDEN/POND				
24	TRASH/RECYCLING AREA				
25	CEMENTITIOUS SIDING				
26	PASSIVE COOLING				
27	ON-SITE WATER COLLECTION				
28	ENLARGED OVERHANGS				

THE DESIGN PRINCIPLES INCORPORATED INTO OUR PROJECT:

- ROOF TOP GARDEN:**
 - ALLOWS FOR RAIN ABSORPTION AND PLACE TO GROW FOOD.
- RAIN GARDEN:**
 - ALLOWING FOR ON-SITE WATER STORAGE, COLLECTING FROM THE ROOFTOP GARDEN AND A GREY WATER COLLECTION.
- RAINWATER COLLECTION:**
 - USED FOR THE RAIN GARDEN AND THE GRAY WATER COLLECTION.
- GRAY WATER COLLECTION:**
 - COLLECTED FROM THE ROOF AND SITE, WILL BE USED FOR TOILETS.
- STRUCTURAL INSULATED PANELS (SIPS):**
 - PROVIDING SUPERIOR INSULATING QUALITY AND EFFICIENT INSTALLATION BY BEING PREFABRICATED.
- INSULATED CONCRETE FORMS (ICFS):**
 - PROVIDING GREAT INSULATING PROPERTIES AND A STRUCTURAL FOUNDATION.
- RECYCLED/REUSED MATERIALS:**
 - REUSING MATERIALS FOR OUR PROJECT, SUCH AS CORRUGATED METAL AND RECYCLED STONE FOR OUR SIDING, RECYCLED GLASS FOR OUR COUNTER TOP THAT PROVIDES LONG LASTING DURABILITY.
- NATURAL LIGHTING / EFFICIENT LIGHTING:**
 - OUR SOUTHERN FACING DESIGN ALLOWS FOR MAXIMUM LIGHTING IN OUR LIVING ROOM, SOLAR TUBES PROVIDE LIGHTING IN THE SECOND FLOOR BATHROOMS, PROVIDING CFL'S AND LED LIGHTS.
- GEOTHERMAL HEATING/COOLING:**
 - AS A DESIGN OPTION WITHIN THE ALLOWED BUDGET, GEOTHERMAL HYDRONIC PUMPS WOULD PROVIDE HEATING AND COOLING.
- IN-FLOOR RADIANT HEATING:**
 - MOST EFFICIENT MEANS OF HEATING, COMBINED WITH GEOTHERMAL, THE INHABITANTS WOULD HAVE VERY LOW HEATING BILLS.
- WATER EFFICIENT FIXTURES:**
 - DUAL FLUSH TOILETS AND LOW FLOW SHOWER HEADS.
- SUPER EFFICIENT HOME APPLIANCES:**
 - APPLIANCES THAT ARE 20X BELOW THE FEDERAL STANDARD.

ENERGY ANALYSIS:

USING THE IES ENERGY SOFTWARE OUR PROPOSED BUILDING ENERGY USAGE FOR THE YEAR WOULD BE ABOUT 255 MBTU/YR.

OUR PROPOSED CARBON EMISSION WOULD BE A LITTLE OVER 30 TONS CO2/YR CALCULATIONS BASED ON THE ENTIRE BUILDING.

THE BUILDING ENERGY USE INTENSITY CALCULATED TO BE 165 KBTU/FT2 OR ABOUT 27.5 PER UNIT

IMPROVED HOME ENERGY RATING SYSTEM (HERS) SCORE TO BE BETWEEN 70-74

ENERGY BREAKDOWN

HEATING	71%
COOLING	0%
LIGHTING	10%
EQUIPMENT	19%



- KEY DESCRIPTION**
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