

MASTER PLAN FOR
BEACH COURT ELEMENTARY SCHOOL

INVENTION, INSPIRATION AND CREATIVITY

PREPARED FOR: DENVER PUBLIC SCHOOLS
900 GRANT ST.
DENVER, COLORADO

APPROVED _____ , _____
PRINCIPAL, FRANK ROTI DATE

APPROVED _____ , _____
CDC REPRESENTATIVE DATE

APPROVED _____ , _____
P. M., DPS FACILITY MANAGEMENT DATE

APPROVED _____ , _____
GROUNDS SUPERVISOR, DPS DATE
FACILITY MANAGEMENT

PROJECT INTRODUCTION PG. 3

THE CHALLENGE PG. [3](#)

THE SOLUTION..... PG. 3

THE INTENT OF THE MASTER PLAN PG. [4](#)

PART I: ASSESSING THE PRESENT SITUATION

THE LOCATION PG [5](#)

HISTORY PG [5](#)

DEMOGRAPHICS PG [6](#)

THE CONSTITUENTS.....

STAFF, TEACHERS, AND PARENTS

SURVEY OF COMMUNITY DESIRES

SITE INVENTORY AND SAFETY ASSESSMENT..... PG [8](#)

SITE INVENTORY AND SAFETY ASSESSMENT..... PG [8](#)

GENERAL SURFACE AREAS.....

PLAYGROUND EQUIPMENT.....

PLAYING FIELDS.....

ASPHALT AREAS.....

CONCRETE AREAS.....

VEGETATION

PEDESTRIAN ACCESS.....

HANDICAP ACCESSIBILITY

VEHICULAR ACCESS/PARKING

SERVICE/MAINTENANCE.....

DRAINAGE [PG 10](#)

SURROUNDING USES

AMBIANCE

PART II-THE MASTER PLAN, CREATING THE FUTURE

INTRODUCTION.....

INSPIRATION, INVENTION AND CREATIVITY

A VISION FOR EDISON ELEMENTARY..... [PG 13](#)

THE SPATIAL CONCEPT [PG 16](#)

THE ORGANIZATIONAL CONCEPT

HOW THE GOALS WILL BE FULFILLED.....

COST ESTIMATE..... PG [21](#)

APPENDIX I.....

PLAYGROUND PLAN CREATED BY EDISON PTSA.....

APPENDIX II

SURVEY OF COMMUNITY DESIRES

APPENDIX III

SITE INVENTORY AND SAFETY ASSESSMENT..... PG [29](#)

COST ESTIMATES FOR PHASES ONE AND TWO

PART I. ASSESSING THE PRESENT SITUATION

PROJECT INTRODUCTION

THE CHALLENGE

STUDIES SHOW THAT A WELL-PLANNED AND EQUIPPED EXTERIOR PLAY AREA ENHANCES THE LEARNING ENVIRONMENT RESULTING IN IMPROVED LEARNING AND ACHIEVEMENT. SUCH PLAY AREAS PROVIDE PHYSICAL AND MENTAL CHALLENGES THAT TRANSLATE INTO IMPROVED HEALTH AND LEARNING ATTENTION. FURTHERMORE, WITH PROPER DESIGN, THESE AREAS THEMSELVES BECOME OUTDOOR CLASSROOMS OR LEARNING LANDSCAPES. ONE OF THE PRINCIPAL SECONDARY GOALS OF ALL SCHOOLS, INCLUDING ELEMENTARY, IS TO PROVIDE A FOCUS FOR THE COMMUNITY – A PLACE TO GATHER AND TO MEET, A PLACE TO ENJOY, A PLACE THAT ENHANCES THE COMMUNITY’S APPEARANCE. A REFLECTION OF THIS COMMUNITY IMPORTANCE IS DENVER’S MAYOR WELLINGTON WEBB’S STATEMENT, “AS MAYOR, I HAVE LONG RECOGNIZED THAT WE CANNOT HAVE A GREAT CITY AND GREAT NEIGHBORHOODS WITHOUT GREAT SCHOOLS.”

DENVER PUBLIC SCHOOLS [DPS] IS AN URBAN SCHOOL DISTRICT WITH MANY OF THE SAME CHALLENGES OF OTHER URBAN DISTRICTS. THE INFRASTRUCTURE IS AGING – THE AVERAGE FACILITY IS ALMOST 50 YEARS OLD. THE ONGOING 1998 GENERAL OBLIGATION BOND [GOB] WILL INCREASE THE NUMBER OF SCHOOLS TO 130 BUT CONTAINS NO FUNDING FOR EXISTING ELEMENTARY SCHOOLS OR ANY OTHER EXISTING SCHOOL PLAYGROUND. APPROXIMATELY 75 DPS ELEMENTARY SCHOOLS REQUIRE MODERATE TO EXTENSIVE RENOVATIONS OR UPGRADES TO MEET ADEQUATE STANDARDS. THESE INCLUDE REPLACING PLAYGROUND EQUIPMENT, PROVIDING IRRIGATION AND SOD [TO ELIMINATE GRAVEL AND DIRT FIELDS], PROVIDING AMERICAN WITH DISABILITY ACT [ADA] ACCESSIBILITY, AND PROVIDING AN OUTDOOR CLASSROOM LEARNING ENVIRONMENT. APPROXIMATELY HALF OF THE 75 ELEMENTARY SCHOOLS ARE LOCATED WITHIN UNDERSERVED NEIGHBORHOODS. IT IS IN THESE NEIGHBORHOODS WHERE TRANSFORMING THE SCHOOLYARD IS MOST PRESSING. THESE SCHOOLS HAVE CHRONIC DISCIPLINARY PROBLEMS THAT ARE DISRUPTIVE TO A SCHOOL’S ACADEMIC ENVIRONMENT. PLAYGROUNDS LACKING APPROPRIATE CHOICES FOR CHILDREN BECOME ARENAS TO BULLY AND TEASE. RECESS SHOULD BE A POSITIVE EXPERIENCE THAT COMPLIMENTS THEIR ACADEMIC DEVELOPMENT, A PLACE WHERE CHILDREN DEVELOP THEIR EMOTIONAL, PHYSICAL AND SOCIAL SKILLS.

THE SOLUTION

THE” LEARNING LANDSCAPE” PROGRAM IS AN ENTREPRENEURIAL COMMUNITY-MINDED ALLIANCE OF PUBLIC AND PRIVATE INTERESTS THAT SEEKS TO STRENGTHEN DENVER PUBLIC SCHOOLS AND THEIR SURROUNDING NEIGHBORHOODS BY DESIGNING NEW MULTI-DIMENSIONAL PLAYGROUNDS AND SOCIAL GATHERING PLACES. THE SUCCESS OF THIS PROGRAM IS FOUNDED ON A MUTUAL RESPECT OF AESTHETIC, MAINTENANCE, SAFETY, AND RECREATIONAL ISSUES. THE UNIVERSITY OF

COLORADO AT DENVER'S LANDSCAPE ARCHITECTURE DEPARTMENT OFFERS A SEMINAR COURSE CALLED FINDING COMMON GROUND—EXPLORING THE URBAN EXPERIENCE.

STUDENTS OF LANDSCAPE ARCHITECTURE, ARCHITECTURE AND OTHER DISCIPLINES HAVE COME TOGETHER WITH PROFESSOR LOIS BRINK TO RESEARCH CURRENT EDUCATIONAL, SOCIOLOGICAL, AND ENVIRONMENTAL THOUGHT REGARDING URBAN SPACE IN GENERAL AND ELEMENTARY SCHOOL GROUNDS IN PARTICULAR. EACH STUDENT IN THE COURSE SELECTS A SCHOOL FROM A PREDETERMINED POOL AND USES THIS KNOWLEDGE TO DEVELOP A VISION AND MASTER PLAN FOR EACH SCHOOL. THE MASTER PLAN APPROACH WILL SUIT A MULTI-FACETED CONTEMPORARY EXISTENCE—ENGAGING A CHILD'S EDUCATIONAL AND RECREATIONAL EXPERIENCE WITH THAT OF THE COMMUNITY AT-LARGE.

THE INTENT OF THE MASTER PLAN

THE MASTER PLAN IS A WRITTEN REPORT AND PLAN THAT SETS FORTH THE STRUCTURE FOR FUTURE CAMPUS IMPROVEMENTS. EACH SCHOOL HAS A VISION THAT SPEAKS TO THE DESIRES OF THE SCHOOL AND SURROUNDING COMMUNITY. THE VISION IS FURTHER DELINEATED INTO GOALS THAT IDENTIFY THE MAJOR GOALS FOR IMPLEMENTATION. THESE GOALS ARE DEFINED THROUGH THE USE OF TEXT AND IMAGERY. A PROGRAMMATIC LIST OF USES IS ALSO DEVELOPED. LASTLY, EACH MASTER PLAN SETS FORTH THE AESTHETIC ORDERING SYSTEM OR SYSTEMS THAT WILL BE USED ON THE DESIGN PHASE TO ORGANIZE THE PROGRAMMATIC USES. THIS PLAN, ONCE APPROVED, WILL PROVIDE A FRAMEWORK FOR FUND RAISING AND FUTURE CONSTRUCTION.



GETTING THE KIDS INVOLVED- WWW.COMMUNITYSERVICE.COM

SECTION 1: LOCATION

BEACH COURT ELEMENTARY SCHOOL IS ECE-5TH GRADE SCHOOL LOCATED ON BEACH COURT BETWEEN 49TH ST AND 50TH ST., NORTH WEST OF FEDERAL AND INTERSTATE 70. “EVEN THOUGH THE SCHOOL IS LOCATED CLOSE TO A MAJOR INTERSECTION, IT IS VERY MUCH A NEIGHBORHOOD SCHOOL,” SAID PRINCIPLE FRANK ROTI, “THE NEIGHBORHOOD SCHOOL FEELING IS WHAT MAKES US UNIQUE FROM SCHOOLS TODAY.



THREE NEIGHBORHOODS ARE SERVED BY THE SCHOOL: CHAFFEE PARK, GLOBEVILLE, AND REGIS. THE BOUNDARY FOR THE SCHOOL DISTRICT IS MAINLY CHAFFEE PARK AND THE EAST EDGE OF REGIS AND WEST SIDE OF GLOBEVILLE.

SECTION 2: HISTORY

FROM MASTER PLAN 1999



BEACH COURT SCHOOL WAS FOUNDED IN 1922 AND CONSISTED OF ONE HUNDRED STUDENTS AND THREE TEACHERS IN THREE PORTABLE BUILDINGS AND TWO OUTSIDE LAVATORIES AT 46TH AND ALCOTT ST.



EIGHT YEARS LATER THE COMMUNITY GREW AND THE SCHOOL MOVED TO THE CURRENT BUILDING ON MAY 21, 1949.

THE SCHOOL WAS A BEAUTIFUL BRICK BUILDING WITH SIX CLASSROOMS, KINDERGARTEN ROOM, PRE-SCHOOL ROOM, STUDY/ MEETING ROOM, AND OFFICE. THE COMMUNITY USED THE SCHOOL FOR BOYS SCOUTS, GIRLS SCOUTS, SEWING CLASS, RED CROSS FIRST AID, AND NUTRITION CLASSES.



BEACH COURT FRONT ENTRY
PHOTO BY KAW

POPULATION OF THE SCHOOL GREW TO OVER SIX HUNDRED AND A 1949 BOND WAS PASSED TO BUILD A NEW ADDITION. THE ADDITION WAS COMPLETED IN 1951 AND THE SCHOOL GREW TO SEVEN CLASSROOMS, TWO KINDERGARTEN ROOMS, A LIBRARY, AUDITORIUM, GYMNASIUM, KITCHEN, CLINIC, CONFERENCE ROOM, LARGER OFFICE, AND TEACHER'S LOUNGE. WITH THE ADDITION OF CLASSROOMS CAME AN ADDITION OF SCHOLASTIC PROGRAMS: AUDIO-VISUAL AIDS, HEALTH PROGRAMS, FILM AND MOVIE, BAND, AND ORCHESTRA LESSONS.

IN 1993 THE SCHOOL GREW TO TWENTY-TWO CLASSROOMS AND THE SCHOOLS MOVED TO A STUDENT-CENTERED ENVIRONMENT WITH STATE'S STUDENT PERFORMANCE STANDARDS. LITERACY, SCIENCE, AND TECHNOLOGY ARE THE CURRENT FOCUS OF THE SCHOOL.

THE SCHOOLS COLORS ARE BLUE AND WHITE AND THEIR MASCOT IS THE EAGLE.

SECTION 3: DEMOGRAPHICS

NUMBER OF CHILDREN ENROLLED IN 2004/2005:

PRE-PRIMARY AND KINDERGARTEN:	<u>84</u>
PRIMARY (1 ST -3 RD GRADES):	<u>173</u>
INTERMEDIATE (4 TH -5 TH GRADS):	<u>95</u>
TOTAL:	<u>343</u>
MAX CAPACITY:	<u>455</u>

STUDENT DEMOGRAPHICS (WWW.PITON.COM- MARCH 2004) CONSISTS OF 92% LATINO STUDENTS, 4.3% WHITE STUDENTS, 1.9% AFRICAN AMERICAN STUDENTS, 1.1% ASIAN STUDENTS, AND 0.8% NATIVE AMERICAN STUDENTS OUT OF THREE HUNDRED AND SEVENTY FIVE STUDENTS. THE SCHOOL POPULATION FOR 2004-2005 HAS DROPPED TO THREE HUNDRED AND FIFTY STUDENTS. DAILY ATTENDANCE RATE HAS GONE UP FROM 92.4 IN 2002 TO 94.6 IN 2003. EIGHTY-SEVEN PERCENT OF THE STUDENTS RECEIVE FREE/REDUCED LUNCH. FORTY THREE PERCENT OF SPANISH SPEAKING STUDENTS ARE ENGLISH LANGUAGE LEARNERS.

THREE-NEIGHBORHOODS FEED INTO THE SCHOOL BUT CHAFFEE PARK IS THE MAIN NEIGHBORHOOD TO LOOK AT DEMOGRAPHICS. CHAFFEE PARK NEIGHBORHOOD DEMOGRAPHICS FOR A POPULATION OF 4,353.0 ARE 64.1% LATINO, 31.4% NON-LATINO WHITE, AND 0.9% FOR AFRICAN AMERICAN, NATIVE AMERICAN, AND ASIAN/PACIFIC ISLANDER (2000). THERE WAS 18.6% OF NON-ENGLISH SPEAKING ADULTS IN 2000.

REGIS NEIGHBORHOOD HAS A SIMILAR MAKE UP OF CHAFFEE PARK BUT ONE MAJOR SHIFT IN POPULATION WAS IN NATIVE AMERICANS, THE PERCENT CHANGE FROM 1990-2000 WAS 43.8% LEAVING THE NATIVE POPULATION TO BE 0.6% AND AN INCREASE OF NON-LATINO WHITES TO 64.3%.

THE STUDENT ARE LOW ON THE OVER ALL PERFORMANCE EXAMS. SOME THINK THAT BECAUSE OF THE LARGE POPULATION OF HISPANIC SPEAKING STUDENTS THAT ARE LEARNING A SECOND LANGUAGE LEADS TO LOWER TEST SCORE. MOST OF THESE STUDENTS NEED MORE HANDS ON LEARNING AND THE PLAYGROUND HAS THE OPPORTUNITY TO CROSS SOME OF THESE BARRIERS.

NEIGHBORHOOD

THE SCHOOL IS SURROUNDED BY RESIDENTIAL HOMES IN A FIVE-BLOCK RADIUS AND MOST STUDENTS EITHER WALK TO SCHOOL OR THEIR PARENTS DROP THEM OFF. ONLY ONE BUS IS USED TO PICK UP THE STUDENTS. THE HOUSES ARE MODEST IN SIZE AND COST AND RANGE FROM \$150,000 TO \$175,000. THE HOMES ARE MAINLY ONE STORY WITH SMALLER FRONT YARDS AND SOME OLDER HOMES ARE MADE OF THE SAME DEEP RED BRICK AS THE SCHOOL, WHILE OTHERS HAVE SIDING AND LESS ARCHITECTURAL DETAIL. THERE ARE VERY FEW GARAGES SO CARS ARE PARKED ON THE STREET AND LINE THE DRIVEWAYS.



NEIGHBORHOOD HOUSES- PHOTOS BY KAW

STUDENTS ARRIVE AT THE SCHOOL AT 8:30 AM FOR A BEFORE SCHOOL ART/DRAMA PROGRAM. SCHOOL STARTS AT 9:00AM AND GOES TO 3:45. THERE ARE THREE LUNCH PERIODS THAT START WITH GRADES FIRST AND SECOND FROM 11:30-12:15AM, KINDERGARTEN AND THIRD FROM 11:45-12:30PM, AND FOURTH, FIFTH GRADES FROM 12:00-12:45PM. AFTER SCHOOL ACTIVITIES START AT 3:45 AND GO THROUGH 5:00PM. SOME OF THE PROGRAMS ARE NORTH STAR TUTORING PROGRAM, HAMISH LANGUAGE CLUB, INTRAMURAL BASKETBALL AND VOLLEYBALL, DENVER SCORES SOCCER AND CREATIVE WRITING CLUB, CHECKERS CHESS CLUB, AND PARENTS ENGLISH CLASS.

THE FRONT OF THE SCHOOL ON THE WEST SIDE OF THE SCHOOL CONNECTS TO THE NEIGHBORHOOD BOTH IN ELEVATION AND THE RELATIONSHIP TO THE STREET. AS THE SITE MOVES TO THE EAST THE GRADE OF THE SURROUNDING NEIGHBORHOOD GRADUALLY RESEEDS AND THE PLAYING FIELDS AND PLAYGROUND CONTINUE TO STAY LEVEL AS THE FRONT ENTRY AND AS A RESULT THERE IS A LARGE 5'-0" RETAINING WALL THAT RUNS ALONG ALCOTT ST. THE PLAYGROUND CAN'T BE SEEN FROM ALCOTT BECAUSE OF THE GRADE CHANGE. THE RETAINING WALL IS IN POOR SHAPE AND COULD IMPROVE TO CONNECT TO THE NEIGHBORHOOD.

SECTION 4: SITE INVENTORY AND SAFETY ASSESSMENT



THIS IS A GIS MAP FROM CITY AND COUNTY OF DENVER SHOWING THE PLAYGROUND AND HOW IT IS LACKING COLOR, GRASS, AND EXCITEMENT, THE PHOTO WAS TAKEN IN 2005.

CURRENTLY THE SITE HAS NO GRASS AND MAINLY CONSISTS OF PEA GRAVEL OVER THE PLAYGROUND WITH A HARD SURFACE AREA SEE MAP NEXT PAGE.

¹ENTRY AND DROP OFF- CURRENTLY THE ENTRY IS LACKING CURB APPEAR. THE FRONT DOOR NEEDS A NEW COAT OF PAINT, CONCRETE NEEDS REPAIRING, AND NO SITTING AREA FOR STUDENTS WHILE THEY WAIT FOR THEIR PARENTS TO PICK THEM UP, AND NOT ENOUGH SIDEWALK SPACE FOR BUSY DROP OFF TIMES.



PLAYGROUND EQUIPMENT- MAJORITY OF THE PLAY EQUIPMENT IS OUT OF DATE AND WILL NEED TO BE REPLACED EXCEPT FOR THE NEW INTERMEDIATE PLAY EQUIPMENT. NEW SOFT SURFACE MATERIAL WILL NEED TO BE INSTALLED UNDER ALL EQUIPMENT.

PLAYGROUND- THE MAJOR THING THAT THE PLAYGROUND NEEDS IS GRASS, BOTH THE PLAY FIELDS AND THE OPEN SPACE ACROSS FROM THE GYM. THE PLAYGROUND ALSO NEEDS TO ADD AN ECE PLAY AREA. THE PLAYGROUND IS NOT HANDICAP ASSESSABLE AND ACCESS BY A FIRE TRUCK ON TO THE PLAYGROUND WILL NEED TO BE EXPLORED.

PRINCIPLE FRANK ROTI WOULD LIKE TO SEE NEW GRASS FIELD AND AN OVER ALL IMPROVEMENT OF THE PLAYGROUND. HE SAID THAT IT IS A STRONG COMMUNITY BASED SCHOOL AND IF THE PLAYGROUND WOULD BE UPDATED HE BELIEVES THAT IT WOULD BE UTILIZED ON THE WEEKENDS. CURRENTLY, THE COMMUNITY USES ZUNI PARK AND DURING SCHOOL EVENTS AND IT WOULD BE NICE TO USE THE SCHOOL ALSO. HE WOULD LIKE TO SEE MORE OF A WELCOMING ENTRY TO THE SCHOOL WITH BENCHES AND PLANTINGS.

SITE DRAIN²AGE- THERE ARE TWO AREA ON THE SITE THAT HAVE DRAINAGE ISSUES ON THE SOUTH WEST CORNER OF THE BUILDING AT THE LOWER CLASS ROOMS AND AT THE RAMP ON THE NORTH EAST CORNER OF THE SITE.

CONCRETE AND ASPHALT- ALL ASPHALT ON THE SITE WILL NEED TO BE FILLED AND SLURRY SEALED AND



¹ All photographs by K. Wilman

MAJORITY OF THE CONCRETE WILL NEED REPAIR.



EXISTING GRASS AND VEGETATION- THE EXISTING IRRIGATED GRASS HAS NOT BEEN IRRIGATED CONSTANTLY AND HAS PATCHY SPOTS THAT WILL HAVE TO GET RESODDED. ALL VEGETATION ON THE SITE WILL NEED TO BE REVIEW AT TIME OF INSTALL AND REPLACED IF NEEDED.

THE SITE HAS OPPORTUNITIES TO HAVE DEFINED SPACES THAT THE KIDS AND COMMUNITY CAN PLAY AND SOCIALIZE IN THAT HAVE COLOR, SHADED STRUCTURES, PRIVATE SPACES, GRASSY PLAY FIELDS, AND LEARNING TOOLS.

SITE ACTIVITIES COULD INCLUDE SOCCER, DRAMA (STAGE), PAINTED GAMES ON HARD SCAPE SURFACES, READING, SOCIALIZING, PICNICS, RUNNING, AND IMAGINATION AND CREATIVE PLAY GAMES.

SECTION 5: SURVEY AND STUDENT PROJECTS

STUDENT PHOTOS- PLAYGROUND AND NEIGHBORHOOD

TEN STUDENTS WERE GIVEN CAMERAS TO TAKE PICTURES OF THEIR PLAYGROUND AND NEIGHBORHOODS.

THE FIRST FIVE STUDENTS FOCUSED ON THE NEIGHBORHOOD AND THE PICTURES WERE VERY INFORMING. STUDENTS IN THE PHOTO ASSIGNMENT WERE PRETTY CONSISTENT WITH THE NEED FOR A GRASS FIELD AND TREES/ SHADE STRUCTURE. THEY EXPRESSED A NEED FOR NEW PLAY EQUIPMENT AND THAT SOME OF THEIR EXISTING EQUIPMENT LIKE THE MOON HOUSE IS NOT BEING USED. ONE STUDENT TOOK MANY PICTURES OF GOOD AND BAD ENTRYWAYS AND I THINK THEY WOULD LIKE TO SEE A NEW ENTRY/ GATEWAY INTO THEIR PLAYGROUND.

THE SECOND GROUPS OF FIVE CAMERAS WERE GIVEN TO A GROUP OF STUDENTS AT RECESS. THE PICTURES FOCUSED ON STUDENTS AT PLAY AND HOW THEY LIKE TO USE THE PLAYGROUND. THE GYM TEACHER REQUESTED THAT THE NEW EQUIPMENT PROVIDE OPPORTUNITY TO BUILD UPPER BODY STRENGTH. CURRENTLY, MANY STUDENTS ENJOY THE EQUIPMENT THAT BUILDS UPPER BOY STRENGTH.

STUDENT MAPS

IN ART CLASS ALL GRADE LEVELS DREW PICTURES OF THEIR NEIGHBORHOOD AND PLAYGROUNDS. THE ARTWORK WAS GREAT! THE STUDENTS USED A LOT OF COLOR AND DREW PICTURES OF THERE

FAVORITE PIECES OF EQUIPMENT AND GAMES. ALL STUDENTS USED COLOR AND HAD VERY CREATIVE DESIGNS.

PHOTO SURVEY



STUDENTS, TEACHERS, AND ADMINISTRATION WERE SURVEYED TO SEE WHAT IMAGES THEY THOUGHT COULD BE IMPLEMENTED ON THEIR PLAYGROUND.

THE **STUDENTS** TOP CHOOSES WERE; CULTIVATED GARDEN #12, SWINGS #18, SHADE STRUCTURE #2, PLAY EQUIPMENT #17, GATEWAY #7, AND GRASS FIELD #8. SOME OF THE OTHER INTERESTS WERE GAME TABLES, BOULDERS, WATER PLAY, MAPS, OUTDOOR CLASSROOM, AND TETHERBALL.

THE **TEACHERS/ ADMINISTRATIONS** TOP FIVE CHOOSES WERE; GRASS FIELD #8, SWINGS #18, SHADE STRUCTURE #2, OUTDOOR CLASSROOM #19, PLAY EQUIPMENT #17. SOME OF THE CHOOSES WERE CULTIVATED GARDEN, BASKETBALL, ART MURAL, AND GAME TABLE.

SURVEY SUMMARY IS THE SCHOOL IS IN NEED OF A GRASS FIELD AND AN AREA WITH A SHADE STRUCTURE. THE PLAY EQUIPMENT NEEDS TO BE UPDATED AND THE NEED FOR MORE SWINGS, GAME TABLES, MAPS, AND TETHERBALL. THE TEACHERS AND STUDENTS WOULD BE INTERESTED IN AN OUTDOOR CLASSROOM AND CULTIVATED GARDENS TO ENHANCE THE TEACHING PROGRAM. STUDENTS WOULD LIKE A BETTER GATEWAY INTO THE PLAYGROUND.

PART II

INTRODUCTION

VISION

WE THE ENTIRE BEACH COURT COMMUNITY WILL CREATE A CHILD-CENTERED LEARNING ENVIRONMENT WHERE INDIVIDUALS ARE CHALLENGED TO BECOME RESPONSIBLE, PRODUCTIVE, LIFELONG LEARNERS. (BEACH COURT MISSION STATEMENT)

OUR PLAYGROUND WILL SUPPORT THIS MISSION BY CREATING A SAFE, MULTI-FUNCTIONAL PLAYGROUND IN A COLORFUL, CREATIVE, AND DIVERSE ENVIRONMENT.

GOALS

WE WILL ENCOURAGE COMMUNITY INVOLVEMENT DURING THE DESIGN PROCESS, CONSTRUCTION, AND MAINTENANCE OF THE SCHOOLYARD.

WE WILL PROVIDE LOW MAINTENANCE SUSTAINABLE PLANTINGS.

WE WILL INSTALL AGE APPROPRIATE PLAY EQUIPMENT.

WE WILL MAKE THE SCHOOLYARD ADA COMPLIANT.

WE WILL MAKE THE PLAYGROUND A SAFE AREA THAT WILL IMPROVE RECREATIONAL AND EDUCATIONAL OPPORTUNITIES FOR BOTH DURING SCHOOL ACTIVITIES AND AFTER SCHOOL PROGRAMS

HOW THE GOALS WILL BE FULFILLED

WE WILL ENCOURAGE COMMUNITY INVOLVEMENT DURING THE DESIGN PROCESS, CONSTRUCTION, AND MAINTENANCE OF THE SCHOOLYARD.

- EACH STUDENT BROUGHT HOME A LETTER ASKING IF ANY PARENTS WOULD BE INTERESTED IN HELPING OUT WITH THE DESIGN PROCESS OR IF THEY PROCESSED ANY SKILL THAT COULD CONTRIBUTE TO THE PLAY GROUND.
- FRANK ROTI IS PLANNING ON HAVING THE COMMUNITY REVIEW THE MASTER PLAN

WE WILL PROVIDE LOW MAINTENANCE SUSTAINABLE PLANTINGS.

- ANY AND ALL PLANTS SPECIFIED FOR THE SITE WILL BE COLORADO FRIENDLY.

WE WILL INSTALL AGE APPROPRIATE PLAY EQUIPMENT.

- NO ECE EQUIPMENT WAS LOCATED ON SITE, A NEW 60'X35' PLAY AREA WILL BE INSTALLED

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

- ONE PRIMARY PIECE OF EQUIPMENT WAS BEING USED BY ECE, THIS WILL NOW ONLY BE CONSIDERED PRIMARY AND EXTRA EQUIPMENT WILL BE INSTALLED.
- NEW INTERMEDIATE EQUIPMENT WILL REPLACE THE NO COMPLIANT EQUIPMENT.

WE WILL MAKE THE SCHOOLYARD ADA COMPLIANT.

- TWO RAMPS WILL BE CONSTRUCTED, ONE INTO THE PLAY PIT AND ANOTHER BETWEEN THE TWO PLAYGROUNDS.

WE WILL MAKE THE PLAYGROUND A SAFE AREA THAT WILL IMPROVE RECREATIONAL AND EDUCATIONAL OPPORTUNITIES FOR BOTH DURING SCHOOL ACTIVITIES AND AFTER SCHOOL PROGRAMS.

- OPEN SPACE ACROSS FROM THE GYM WILL ADD GYM CLASS, RECESS AND ANY AFTER SCHOOL ACTIVITIES.
- THE GAMES TABLES WILL BE USED BY THE CHESS TEAM BOTH DURING AND AFTER SCHOOL.
- THE SCHOOL WILL USE THE COMMUNITY GARDEN AS A TEACHING AREA AND AT A LATER DATE BEACH COURT COULD LOOK AT GETTING THE COMMUNITY INVOLVED OVER THE WEEKEND AND SUMMER HOURS.
- THE PLAY FIELD WILL SUPPORT PRACTICE AND GAMES BOTH DURING SCHOOL AND AFTER.
- THE ORDERING SYSTEM OF THE WORLD MAP AND THE 7 WONDERS OF THE WORLD WILL PROMOTE EDUCATION AND ALSO DIVERSIFY THE CHILDREN'S UNDERSTANDING OF CULTURE WHILE AT PLAY.

LIST OF ELEMENTS THE PLAYGROUND WILL NEED.

Element Type	Element	Beach Court	
Soft Surface Elements		Exist	
Area	Engineered Wood Fiber		Master planning total count All new on playground Running track
	Pea Gravel		
Hardscape Areas			
Area	Blacktop		
	Paths/Walkways		
	Stairs		
Hard surface Play Elements			
	Basketball	5 hoops	5 existing
	Tetherball	2	2 exist plus 1 new= 3
	Four Square Courts	2	2 exist plus 1 new= 3
	Wall Ball	0	1
	Funnel Ball	0	0

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

	Hopscotch	3 games	2 new games relocated
Playground Equipment			
	ECE Play Set	0	35'x60'
	Intermediate Play Set	110'x55'	110'x55'
	Primary Play Set	110'x 65'	120'x65'
	Swings	10	16
	Boulders	0	0
Site Furniture			3 benches around trees
	Benches	0	Brick Bench @ entry
	Picnic Tables	1	
	Trash Cans	2	2 exist. + 2 new
	Seat walls	1	
Art Pieces			
	Sculptures	0	2
	Murals	0	4
	Shade Structure	0	1
	Gateway	0	2
	Banners	0	20 flags and banners
Vegetation			
	Grass Areas (non-Field)	0	1
	Planter	4	4
	Turf Field	0	1
	Garden	0	3
	Shrub Beds	2	2
	Trees	10+/-	30-34 around site
	Artificial Turf	0	1
	Irrigation Turf	0	1
Miscellaneous			
	Parking	1 Lot	Restripping of H.C.
	stage	0	1
	running track	0	1
	education garden	0	0
	bike racks	1 (5 bikes)	1 existing
	butterfly garden	0	0
	long jump pit	0	0
	Cultural garden	3 Exist. Raised Planters	3 exist + 2 new planters

THE PLAYGROUND HAS AN EXISTING LAYOUT THAT WORKS FOR THE SCHOOL AND STUDENTS. THE MAIN FOCUS OF THE REDESIGN IS TO ENHANCE THE SPACES THAT ARE THERE AND TO OVERLAY THE CONCEPT OF CULTURE, GEOGRAPHY, AND WORLD HISTORY.

STARTING FROM THE SOUTH IS A GATEWAY INTO THE PARK THAT ALREADY EXISTS AND WILL NEED TO HAVE NEW SIGNAGE OR A BANNER TO ANNOUNCE TO THE COMMUNITY THAT THEY ARE ENTERING BEACH COURT'S PLAYGROUND. ADJACENT TO THAT IS THE CULTURAL GARDEN, THIS AREA CURRENTLY HAS THREE RAISED PLANTER AREAS AND IS NOT BEING USED APPROPRIATELY. THIS AREA IS TUCKED BEHIND THE GYM AND IS OUT OF SIGHT FROM THE TEACHERS VIEW. WE WILL FENCE THIS AREA IN TO CREATE A SECURE PLACE FOR THE STUDENTS, TEACHERS, AND COMMUNITY TO PLANT A CULTURAL GARDEN. TWO TO THREE ADDITIONAL PLANTERS WILL NEED TO BE ADDED.

ACROSS FROM THE GYM IS AN OPEN SPACE THAT IS UTILIZED FOR GYM CLASS AND RECESS AND THAT WILL BECOME AN IRRIGATED GRASS FIELD.

STRAIGHT AHEAD IS THE HARD SURFACE PLAY AREA WHERE FOURSQUARE, TETHERBALL, HOPSCOTCH AND BASKETBALL ARE LOCATED. THE HOPSCOTCH WILL MOVE SOUTH TO THE CONCRETE WALK BETWEEN THE GYM AND NEW GRASS FIELD TO MAKE ROOM FOR A TOTAL OF 3 FOURSQUARE COURTS, THREE TETHERBALL AREAS, WORD WALL BALL ON THE EXISTING RETAINING WALL, AND THE BASKETBALL HOOPS WILL STAY IN PLACE. THIS AREA WILL HAVE THE WORLD MAP PAINTED ON AS ONE LARGE OVERLAY ACROSS THE ENTIRE HARD SURFACE AREA. ON THIS MAP IT WILL POINT OUT THE SEVEN CONTINENTS AND THE SEVEN WONDERS OF THE WORLD THAT ARE LOCATED ON THE REST OF THE PLAYGROUND.

ONCE YOU LEAVE THE HARD SURFACE YOU WALK THROUGH UP A COUPLE OF STAIRS TO REACH THE PLAY EQUIPMENT. THIS AREA WILL NEED TO HAVE AN A.D.A. RAMP ADDED ALONG WITH SOME FUN PAINTING OF PIANO KEYS ON THE STEPS AND GATEWAY ABOVE.

ONCE YOU ENTER THE PLAYGROUND YOU WILL BE IN THE INTERMEDIATE AND PRIMARY PLAY AREA THAT HAS EUROPE, AFRICA, AND ASIA CONTINENTS AND THE IN THOSE CONTINENTS WERE THE SEVEN WONDERS OF THE WORLD. FOR EXAMPLE THE PYRAMIDS CAN BE BUILT AND THE STUDENTS CAN USE IT AS A CLIMBING WALL. THE TEMPLE OF ARTEMIS WILL BE THE SHADE STRUCTURE AND THAT WILL PROTECT THE THREE CHESS TABLES BELOW. SEE THE NEXT SECTION FOR THE HISTORY ON THE SEVEN WONDERS OF THE WORLD.

A STAGE WILL ALSO BE LOCATED IN THIS AREA JUST EAST OF THE MAIN RAMP TO THE PLAYGROUND. THIS WILL GIVE THE STUDENTS A PLACE TO PERFORM BOTH DURING SCHOOL AND AFTER ALONG WITH HANDLING THE DRAINAGE PROBLEM AT THE END OF THE RAMP.

TO THE WEST OF THE STAGE WILL BE THE NEW ECE AREA THAT WILL NEED TO BE REGARDED IN ORDER TO BRING IT LEVEL WITH THE SCHOOL. THIS

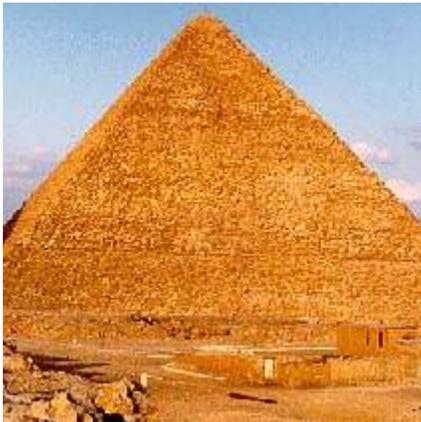
LACTATION IS NORTH OF THE SCHOOL AND IS PERFECT LOCATION TO KEEP THE CHILDREN OUT OF THE DIRECT SUN.

THE NEW IRRIGATED TURF PLAYING FIELDS ARE LOCATED AT THE NORTH OF SIGHT AND THE SOCCER FIELD WILL BE ROTATED TO NORTH SOUTH AND NEW TRACK WILL BE PLACED AROUND IT.

ORGANIZATION CONCEPT

THE WORLD MAP HIGHLIGHTING THE 7 CONTINENTS AND THE SEVEN WONDERS OF THE WORLD-

Figure 1- Seven Wonders of the World- <http://ce.eng.usf.edu/pharos/wonders/>



**Pyramid of Khufu
Egypt**

Why this ancient Seven Wonders pyramid is special

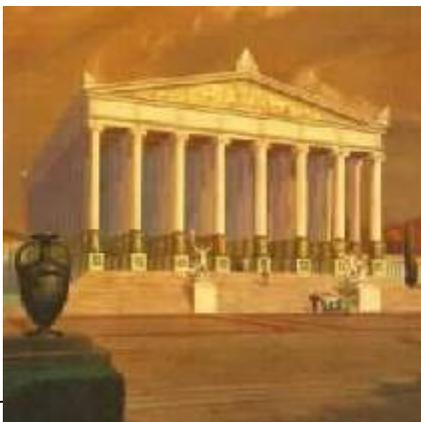
The pyramid of Khufu (Cheops in Greek) is the largest, oldest and only true surviving member of the Seven Wonders of the Ancient World. It was built in the 26th century BC.



**Hanging Gardens
of Babylon
Iraq**

Why these ancient Seven Wonders gardens were special

The Hanging Gardens of Babylon are the most controversial of all the Seven Wonders because some archeologists doubt they ever existed. After exploring the ruins firsthand and reading extensively, I believe they did exist, but on a less grand scale than widely thought.



**Temple of Artemis at Ephesus
Turkey**

Why this ancient Seven Wonders temple was special

The Temple of Artemis at Ephesus was one of the most elegant buildings of ancient times. It boasted over 100 graceful marble columns.



Statue of Zeus at Olympia Greece

Why this ancient Seven Wonders statue was special

The statue of the Greek god Zeus at Olympia was one of the world's greatest statues. It was created in about 450 BC by the renowned Greek sculptor Phidias, the same artist who created the famed statue of the goddess Athena for the Parthenon in Athens.

Zeus's seated figure (see picture) was 12 meters (50 feet) high. His body was ivory and his robe, hair and beard, gold. The throne was cedar inlaid with precious jewels. Zeus's outstretched right hand held a small statue of Nike, the goddess of victory.

The statue's head nearly scraped the ceiling of the Temple of Zeus. Phidias wanted to emphasize Zeus's mightiness.



Colossus of Rhodes Greece

Why this ancient Seven Wonders statue was special

The Colossus of Rhodes statue with its pedestal was as tall as a modern 15-story building. This was an amazing architectural feat when this structure was built on the island of Rhodes around 280 BC.



Lighthouse of Alexandria Egypt

Why this ancient Seven Wonders structure was special

The Lighthouse of Alexandria is one of the greatest architectural feats of antiquity. It was at least as tall as a 40 story modern building and stood for over 16 centuries.



**Mausoleum
at Halicarnassus
Turkey**

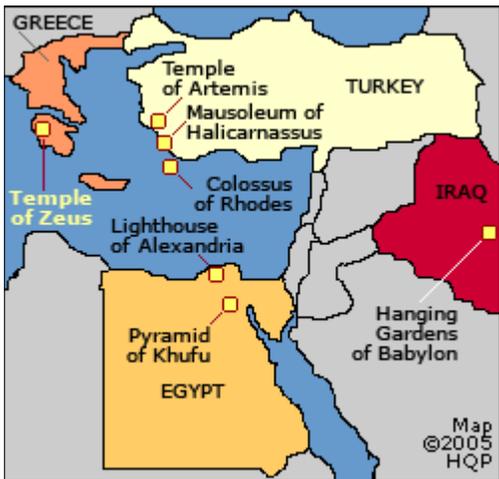
Why this ancient Seven Wonders tomb was special

The 4th century BC Mausoleum at Halicarnassus was not only imposing, it was ornately decorated (see picture) with columns and statues. Its step-pyramid roof was crowned with a large dramatic sculpture of four horses pulling a chariot carrying the King Mausolus and his Queen Artemisia.

The marble tomb was as high as a modern 14 story building and, from its strategic hillside location, overlooked Halicarnassus and its bay.

Queen Artemisia commissioned the Mausoleum at Halicarnassus in 353 BC for her husband. In tribute to her husband, she spared little expense in hiring some of the best craftsman and sculptors of her day

Map of the Locations for the Seven Wonders of the world.
www.



PART III- COST ESTIMATE

COST ESTIMATE

**Cost Estimate - Infrastructure
Master Plan -
Beach Court
Prepared by Karen Wilman**

Category	Unit	Unit Cost	Quant.	Total Cost
Project Start Up				
Utility Locate	Free			
Mobilization	EACH	\$16,068.57	1	\$16,068.57
Demolition & Excavation				
Remove Asphalt	SF	\$0.58		\$-
Temporary Construction Fencing	LF	\$2.97	420	\$1,247.40
Sawcut Concrete	LF	\$1.61		\$-
Remove Concrete Flatwork	SF	\$0.66	800	\$528.00
Remove all play equipment	LS	\$4,622.02		\$-
Remove Chainlink Fencing	LF	\$2.34		\$-
Backstop Removal	EACH	\$223.85		\$-
Stockpile/Till in Existing Pea Gravel	CY	\$7.29	150	\$1,093.50
Relocate Trash Receptacle	EACH	\$110.64	2	\$221.28
Drainage improvement	LS	\$10,000.00	1	\$10,000.00
On-Site Earthwork	LS	\$29,030.39	1	\$29,030.39
Surveying	LS	\$3,000.00	1	\$3,000.00
Unforeseen Sub-grade Condition	LS	\$5,000.00	1	\$5,000.00
SUBTOTAL				\$66,189.14
Site Work				
Asphalt Type B 4"	SF	\$1.35	8000	\$10,800.00
Asphalt Type C 6"	SF	\$2.05	6500	\$13,325.00
Crack Fill and Slurry Seal Existing Asphalt	SF	\$0.40		\$-
Play Pad Striping	LS	\$3,496.36		\$-
Speciality Painting	LS	\$2,000.00		\$-
Concrete Flatwork 4"	SF	\$3.69	2650	\$9,778.50
Concrete Flatwork 6"	SF	\$4.11		\$-
Concrete Color Hardener	SF	\$2.50		\$-
Integral Color for Concrete	SF	\$5.00		\$-
Sandblasting with Stain (\$400-2000, varies)	LS	\$1,500.00		\$-
Concrete drop off/pick lane	LS	\$35,000.00		\$-
Concrete Curbwall 12" x 24"	LF	\$39.45		\$-
Concrete Curbwall 8" x 24"	LF	\$30.85		\$-
Concrete Curbwall 8" x 18"	LF	\$29.31		\$-
Concrete Edger 8" x 6"	LF	\$12.55		\$-
Concrete Planter Wall w/ Sandstone Cap	LF	\$107.47		\$-

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

Concrete Stairs	SF	\$50.00		\$-
Concrete Play Pit Ramp	EACH	\$851.91		\$-
Masonry				
Modular Block Retaining Wall	FF	\$20.00	260	\$5,200.00
Concrete block only, w/o pins	FF	\$15.00		\$-
Brick Pavers	SF	\$7.00	60	\$420.00
10' Brick Column	EA	\$2,337.00		\$-
Boulder Bench 60" x 18" x 24"	EACH	\$437.81		\$-
Boulder Bench 36" x 18" x 24"	EACH	\$135.76		\$-
Classroom Seat Boulders	EACH	\$201.40		\$-
Shrub Bed Wood Mulch	SF	\$1.00		\$-
Soft Surface Material				
EWF Play Surfacing	SF	\$2.50		\$-
Pour-In-Place Surfacing	SF	\$8.52		\$-
Pour-In-Place Subgrade Preparation	SF	\$2.45		\$-
Artificial Turf	SF	\$13.50		\$-
Play Sand	SF	\$2.16		\$-
SUBTOTAL				\$39,523.50

Site Furnishing				
Shade Structure	LS	\$24,000.00		\$-
4' Chain Link Fence	LF	\$20.00		\$-
6' Chain Link Fence	LF	\$23.00		\$-
12' Chain Link Fence	EA	\$40.00		\$-
Chain link pedestrian gate	EA	\$386.00		\$-
Chain link drive gate	EA	\$850.00		\$-
"Iron" specialty fencing	LF	\$40.00		\$-
Bollard Removable	EACH	\$840.74		\$-
Trash Receptacles	EACH	\$264.32		\$-
Soccer Goals	SET	\$3,196.40		\$-
Bball Backstop w/ Hood and Mowband	EACH	\$9,315.77		\$-
Benches, metal	Unit	\$2,000.00		\$-
Signage	LS	\$3,000.00		\$-
Banner Pole	EACH	\$1,126.77		\$-
Basketball Goal	EACH	\$1,868.44		\$-
Triple Shoot	EACH	\$3,944.77		\$-
Picnic Table	EACH	\$1,317.39		\$-
Tetherball Pole	EACH	\$479.70		\$-
SUBTOTAL				\$39,943.50

Play Equipment				
ECE Play Structure	LS	\$20,000.00		\$-
install play equipment (ECE)	25%			\$-
Primary Play Structure	LS	\$20,000.00		\$-
install play equipment (Primary)	25%			\$-
Intermediate Play Structure	LS	\$20,000.00		\$-
install play equipment (Intermediate)	25%			\$-
Playground Wear Mats	EACH	\$304.89		\$-

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

2-Bay Swings	EA	\$2,500.00		\$-
3-Bay Swings	EA	\$5,000.00		\$-
4-Bay Swings	EA	\$7,500.00		\$-
5-Bay Swings	EA	\$10,000.00		\$-
Climbing Wall, prefabricated	EA	\$12,000.00		\$-
Running Track, crusher fines	SF	\$1.80		\$-
SUBTOTAL				\$-
Interactive Areas				
Theme Garden - Riparian, Ecosystem	SF	\$10.00		\$-
Theme Garden - Butterfly, Habitat, Cultural	SF	\$6.00		\$-
Amphitheater, informal, 20 students	EA	\$3,000.00		\$-
Amphitheater, formal, 60 students	EA	\$12,000.00		\$-
Cultivated School Garden with raised beds	LS	\$10,000.00		\$-
Cultural Gardens	LS	\$2,500.00		\$-
Sculptural Boulders	LS	\$8,745.82		\$-
SUBTOTAL				\$-
Art Elements				
Vertical Banners	EA	\$175.00		\$-
Mural	LS	\$2,500.00		\$-
Tile Project	FF	\$4.00		\$-
Sculpture	EA	\$2,000.00		\$-
Game Tables	EA	\$1,000.00		\$-
Acoustic Element	EA	\$2,000.00		\$-
Parking Striping	LS??	\$200.00	1	\$200.00
SUBTOTAL				\$200.00
Landscape				
Shade Tree - 2.5" Diameter	EACH	\$373.80	35	\$13,083.00
4.5" Caliper Tree	EA	\$500.00		\$-
Ornamental Tree - 1.5" Diameter	EACH	\$298.61		\$-
Seed and Soil Preparation	SF	\$0.22		\$-
Sod and Soil Preparation	SF	\$0.52	10,000	\$5,200.00
Irrigation	LS	\$52,157.36	0.5	\$26,078.68
New Water Tap	LS	\$35,000.00	1	\$35,000.00
Owner Installed Sod and Soil Preparation	SF	\$0.49		\$-
SUBTOTAL				\$79,361.68
Misc.				
Geo-Technical Report	LS	\$1,800.00		\$-
Testing	LS	\$3,000.00		\$-
SUBTOTAL				\$-
Hard Cost Subtotal				\$225,217.82

Soft Costs				
A/E Fees	8%	Constr Costs		\$18,017.43
CM Fees	5%	Constr Costs		\$11,260.89
Contingency	10%	Constr Costs		\$22,521.78
Soft Cost Subtotal				\$51,800.10
GRAND TOTAL				\$277,017.92

Cost Estimate - Learning Landscape Master Plan - Beach Court

Prepared by Karen Wilman

Category	Unit	Unit Cost	Quantities	Total Cost
Project Start Up				
Utility Locate	Free			
Mobilization	EACH	\$ 16,068.57	1	\$ 16,068.57
Demolition & Excavation				
Remove Asphalt	SF	\$ 0.58		\$ -
Temporary Construction Fencing	LF	\$ 2.97		\$ -
Sawcut Concrete	LF	\$ 1.61	40	\$ 64.40
Remove Concrete Flatwork	SF	\$ 0.66	2000	\$ 1,320.00
Remove all play equipment	LS	\$ 4,622.02	1	\$ 4,622.02
Remove Chainlink Fencing	LF	\$ 2.34		\$ -
Backstop Removal	EACH	\$ 223.85		\$ -
Stockpile/Till in Existing Pea Gravel	CY	\$ 7.29		\$ -
Relocate Trash Receptacle	EACH	\$ 110.64		\$ -
Relocate Bench	EACH	\$ 206.23		\$ -
On-Site Earthwork	LS	\$ 29,030.39	1	\$ 29,030.39
Surveying	LS	\$ 3,000.00		\$ -
Unforeseen Sub-grade Condition	LS	\$ 5,000.00		\$ -
SUBTOTAL				\$ 51,105.38
Site Work				
Asphalt Type B 4"	SF	\$ 1.35		\$ -
Asphalt Type C 6"	SF	\$ 2.05		\$ -
Crack Fill and Slurry Seal Existing Asphalt	SF	\$0.40		\$ -
Play Pad Striping	LS	\$ 3,496.36	1	\$ 3,496.36
Speciality Painting	LS	\$ 2,000.00	1	\$ 2,000.00
Concrete Flatwork 4"	SF	\$ 3.69	3550	\$ 13,099.50
Concrete Flatwork 6"	SF	\$ 4.11		\$ -
Concrete Color Hardener	SF	\$2.50		\$ -
Integral Color for Concrete	SF	\$5.00		\$ -
Sandblasting with Stain (\$400-2000, varies)	LS	\$1,500.00		\$ -

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

Concrete drop off/pick lane	LS	\$ 35,000.00		\$ -
Concrete Curbwall 12" x 24"	LF	\$ 39.45		\$ -
Concrete Curbwall 8" x 24"	LF	\$ 30.85		\$ -
Concrete Curbwall 8" x 18"	LF	\$ 29.31	270	\$ 7,913.70
Concrete Edger 8" x 6"	LF	\$ 12.55		\$ -
Concrete Planter Wall w/ Sandstone Cap	LF	\$ 107.47		\$ -
Concrete Stairs	SF	\$50.00		\$ -
Concrete Play Pit Ramp	EACH	\$ 851.91	2	\$ 1,703.82
Masonry				
Modular Block Retaining Wall	FF	\$20.00		\$ -
Concrete block only, w/o pins	FF	\$ 15.00		\$ -
Brick Pavers	SF	\$ 7.00		\$ -
10' Brick Column	EA	\$ 2,337.00		\$ -
Boulder Bench 60" x 18" x 24"	EACH	\$ 437.81		\$ -
Boulder Bench 36" x 18" x 24"	EACH	\$ 135.76		\$ -
Classroom Seat Boulders	EACH	\$ 201.40		\$ -
Shrub Bed Wood Mulch	SF	\$ 1.00	20	\$ 20.00
Soft Surface Material				
EWB Play Surfacing	SF	\$ 2.50	17000	\$ 42,500.00
Pour-In-Place Surfacing	SF	\$ 8.52	20	\$ 170.40
Pour-In-Place Subgrade Preparation	SF	\$ 2.45	20	\$ 49.00
Artificial Turf	SF	\$ 13.50	500	\$ 6,750.00
Play Sand	SF	\$ 2.16		\$ -
SUBTOTAL				\$ 77,702.78
Site Furnishing				
Shade Structure	LS	\$24,000.00	1	\$ 24,000.00
4' Chain Link Fence	LF	\$20.00	0	\$ -
6' Chain Link Fence	LF	\$23.00	10	\$ 230.00
12' Chain Link Fence	EA	\$40.00		\$ -
Chain link pedestrian gate	EA	\$386.00		\$ -
Chain link drive gate	EA	\$850.00		\$ -
"Iron" specialty fencing	LF	\$40.00	20	\$ 800.00
Bollard Removable	EACH	\$ 840.74		\$ -
Trash Receptacles	EACH	\$ 264.32		\$ -
Soccer Goals	SET	\$ 3,196.40		\$ -
Bball Backstop w/ Hood and Mowband	EACH	\$ 9,315.77		\$ -
Benches, metal	Unit	\$2,000.00	6	\$ 12,000.00
Signage	LS	\$3,000.00		\$ -
Banner Pole	EACH	\$ 1,126.77	4	\$ 4,507.08
Basketball Goal	EACH	\$ 1,868.44		\$ -
Triple Shoot	EACH	\$ 3,944.77		\$ -
Picnic Table	EACH	\$ 1,317.39	2	\$ 2,634.78
Tetherball Pole	EACH	\$ 479.70	2	\$ 959.40
SUBTOTAL				\$ 45,131.26
Play Equipment				
ECE Play Structure	LS	\$20,000.00	1	\$ 20,000.00

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

install play equipment (ECE)	25%		1	\$	5,000.00
Primary Play Structure	LS	\$20,000.00	0	\$	-
install play equipment (Primary)	25%			\$	-
Intermediate Play Structure	LS	\$20,000.00	1	\$	20,000.00
install play equipment (Intermediate)	25%		1	\$	5,000.00
Playground Wear Mats	EACH	\$ 304.89	16	\$	4,878.24
2-Bay Swings	EA	\$2,500.00	1	\$	2,500.00
3-Bay Swings	EA	\$5,000.00		\$	-
4-Bay Swings	EA	\$7,500.00	2	\$	15,000.00
5-Bay Swings	EA	\$10,000.00		\$	-
Climbing Wall, prefabricated	EA	\$12,000.00	1	\$	12,000.00
Running Track, crusher fines	SF	\$1.80		\$	-
SUBTOTAL				\$	84,378.24
Interactive Areas					
Theme Garden - Riparian, Ecosystem	SF	\$10.00		\$	-
Theme Garden - Butterfly, Habitat, Cultural	LS	\$6,000.00	1	\$	6,000.00
Stage, informal, 20 students	EA	\$3,000.00	2	\$	6,000.00
Amphitheater, formal, 60 students	EA	\$12,000.00		\$	-
Cultivated School Garden with raised beds	LS	\$10,000.00	1	\$	10,000.00
Cultural Gardens	LS	\$2,500.00		\$	-
Sculptural Boulders	LS	\$ 8,745.82		\$	-
SUBTOTAL				\$	22,000.00
Art Elements					
Vertical Banners	EA	\$175.00	4	\$	700.00
Mural	LS	\$2,500.00	2	\$	5,000.00
Tile Project	FF	\$4.00	630	\$	2,520.00
Sculpture	EA	\$2,000.00	4	\$	8,000.00
Game Tables	EA	\$1,000.00	4	\$	4,000.00
Acoustic Element	EA	\$2,000.00		\$	-
Map Striping	EA	\$1,200.00	1	\$	1,200.00
SUBTOTAL				\$	21,420.00
Landscape					
Shade Tree - 2.5" Diameter	EACH	\$ 373.80	2	\$	747.60
4.5" Caliper Tree	EA	\$500.00		\$	-
Ornamental Tree - 1.5" Diameter	EACH	\$ 298.61	2	\$	597.22
Seed and Soil Preparation	SF	\$ 0.22	5000	\$	1,100.00
Sod and Soil Preparation	SF	\$ 0.52	38000	\$	19,760.00
Irrigation	LS	\$ 52,157.36	0.5	\$	26,078.68
Owner Installed Sod and Soil Preparation	SF	\$ 0.49		\$	-
SUBTOTAL				\$	48,283.50
Misc.					
Geo-Technical Report	LS	\$1,800.00	1	\$	1,800.00
Testing	LS	\$ 3,000.00		\$	-

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

SUBTOTAL				\$ 1,800.00
Hard Cost Subtotal				\$ 351,821.16
Soft Costs				
A/E Fees	8%	Constr Costs		\$ 28,145.69
CM Fees	5%	Constr Costs		\$ 17,591.06
Contingency	10%	Constr Costs		\$ 35,182.12
Soft Cost Subtotal				\$ 80,918.87
GRAND TOTAL				\$ 432,740.03

APPENDICES

Playground Safety Site Assessment

Elementary School: Beach Court
 Address: 4950 Beach Ct
 Denver, CO 80221-1208
 Inspector: Karen Wilman
 Inspection Date: Feb. 13, 2005

Note: If any “NO” is checked for any of the individual site assessment issues, please provide detail comments on additional sheets of paper and attach to this report.

Item	Issues	Yes	No	N/A	Comments
A.	<u>GENERAL CONCERNS</u>				
1.	Can the playground be seen from the street?	x			
2.	Is the playground fenced off from the street, open water sources, ditches, etc?	x			
3.	Does the playground provide for wheelchair access?	98%			South side yard has large opening in fence.
4.	Are drinking fountains present, operational, and clean?		x		
5.	Is the size of the playground equipment correct for the age group utilizing it?		x		
6.	Does the playground have adequate site drainage?	85%			Some Problem areas
7.	Is the equipment free of vandalism?	98%			Small amount of tagging
8.	Does the playground provide approved shade structures and/or trees?	x			
B.	<u>GROUND COVER</u>				
1.	Is fall protection, EWF (Engineered Wood Fiber), provided under all play equipment?	x			
2.	Is the loose fall material 12 inches deep?		x		6-9 more in. at all play areas.
3.	Does the fall material extend at least 6 feet beyond the play equipment footprint?	x			
4.	Is the fall material non-compacted?		x		
5.	Is there a rubber mat present that is 1 inch thick for every 4 feet of equipment height?		x		
6.	Does the fall material extend beyond the beam swing height? (1:2 Height to Distance Ratio?)	x			
7.	Is there a provision for keeping the swing area free of conflicting traffic?	x			
C.	Consumer Product Safety Commission (CPSC) Compliance				
1.	Are there openings present in the play equipment that are between 4 and 7 inches?		x		
2.	Are there any “V” shaped entrapments present in the play equipment?		x		
3.	Are there 38 inch high non-climbable rails on all raised platforms/decks?	x			
4.	Are there any protrusions that extend beyond the play equipment surface? If so, is the protrusion’s end		x		

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

Item	Issues	Yes	No	N/A	Comments
	diameter larger than that of its base?				
D.	<u>RISK MANAGEMENT</u>				
1.	Have the spin-arounds and see-saws been removed?	x			
2.	Are the decks lower than 66 inches high? Is the equipment height less than 104 inches?	x			
3.	Are the grass areas free of holes and/or protruding sprinkler heads?	x			No grass
4.	Are the walkways and ball courts free of trip hazards?	x			
5.	Are the trash cans/dumpsters "child-proofed"?	x			
6.	If present, are the soccer goals firmly anchored and in good condition?		x		
7.	If present, are the chain-link fencing mesh and any chain link backstop meshing serviceable and free of barbed edges?	x			
8.	Are the metal slides shaded? What is the slide compass orientation?			x	
9.	Have merry-go-rounds, pivot-type see-saws, concrete pipe, and glider-type swings been removed?	x			
10.	If present, are the basketball goals of the non-climbable gooseneck type?				Not sure
E.	<u>MAINTENANCE</u>				
1.	Are the swings and bearing chains in good order?	ok			
2.	Are "S" style hooks closed and swing seats intact?	x			
3.	Is the play equipment anchored according to specifications?				???
4.	If present, are the wood structures sound, smooth, and free from splinters and excessive checks?	x			
5.	Are the trees properly pruned and healthy?	x			
6.	If present, are the benches sound, smooth, and free of any sharp corners?			x	
F.	<u>SUPERVISION</u>				
1.	Is the play equipment centralized for easy supervision?	x			
2.	Is there a separate play area provided for the ECE / pre-primary children?	x			
3.	Have the chain nets been removed from the basketball rims?	x			

Site Inventory

Elementary School: Beach Court
 Address: 4950 Beach Ct
 Denver, CO 80221-1208
 Inspector: Karen Wilman
 Inspection Date: Feb. 13, 2005

Number of children enrolled:	Pre-Primary and Kindergarten:	<u>84</u>
	Primary (1 st -3 rd Grades):	<u>173</u>
	Intermediate (4 th -5 th Grads):	<u>95</u>
	Total:	<u>343</u>
	Max Capacity:	<u>455</u>

Instructions for completing School Playground Site Inventory:

1. Number of Pieces of Equipment Present: For the third column of this inventory survey, please enter the total number of play apparatus found on site where **E=ECE**, **P=Primary**, and **I=Intermediate** intended users.
2. Number of pieces of equipment 10 years or older: For the fourth column of this inventory survey, please enter the total number of play apparatus on site which are older than 10 years. If there is no historical documentation and/or knowledge as to the actual age of the apparatus in question, assume that the item has been on site 10 or more years.
3. Factor Multipliers: For the fifth column of this inventory survey, please multiply the number of pieces of individual equipment by the number specified.
4. Number of Children Accomodated: For the sixth column of this inventory survey, please enter the toal number of children that the piece of equipment can accommodate.

Note: Some play activities are rated assuming that a few children may have to wait for their turn. Also, on composite equipment (an apparatus composed of many activities) you need to rate the individual item for accommodating the number of children.
5. When specific equipment is not listed, please find the nearest generic type of equipment possible or list it on the blank space.
6. Game areas are utilized differently by each age group. I.E., a football field is rarely used by 1st graders but heavily used by 4th graders. The factor multipliers below are general guidelines only. Inpsectors should adjust these factors for observed usage patterns.

BEACH COURT ELEMENTARY SCHOOL MASTER PLAN

Item	Equipment Type	Number of Pieces of Equipment Present			Number of Pieces of Equipment Present			Factor Multipliers	Number of Children Accomodated		
		E	P	I	E	P	I		E	P	I
1.	Slides	0	2					2	0	4	
2.	Wide Slides	0						4	0		
3.	Swings	0	6	4				No. of Seats	0	4	4
4.	Climber	0	5	1				1 per 4 feet of edge	0	10	7
5.	Horizontal Ladder			2				3		9	9
6.	Horizontal Bars			3				2 for long bar, otherwise use number of pieces			9
7.	Fire Pole		2	2				No. of Pieces		2	2
8.	See-Saw							2			
9.	Merry-Go-Round							1 per 1.5 feet of diameter			
10.	Balance Beam							2			
11.	Spring Toy							No. of Seats			
12.	Travel Rings			2				3			6
13.	Tether Ball		1	1				4		4	4
14.	Hop Scotch		2	1				3		6	3
15.	Four Square		1	1				5		5	5
16.	Wall Ball										
17.	Basketball		3	2				7		21	14
18.	Football		1	1				7		7	7
19.	Soccer		1	1				7		7	7
Subtotals:									0	79	77
Total Number of children accommodated by playground equipment:									84	163	95
Total the individual numbers in column 6 and compare this total number of children on the playground to determine if there are at least 1.5 play opportunities per child.									0	.5	.8

Comments:

School at Max Capacity= 455 Student, the play opportunities per child would be **0.35 play opportunities**

STUDENT TEST SCORE RESULTS

Overall performance

LOW

School Population

White students: 19

Hispanic students: 362

Black students: 8

Asian students: 5

Total students enrolled: 398

Student to staff ratio: 9.7 students to every staff member

Length of school year: 175 days

Students eligible for free lunch: 232 (61.9%)

Percent of minority students: 95.2%

Students per teacher, grade 1: 16.0

Students per teacher, grade 2: 19.2

Students per teacher, grade 3: 15.5

Students per teacher, grade 4: 14.8

Students per teacher, grade 5: 18.5

Adequate Yearly Progress

The information below tracks whether the students are making Adequate Year Progress - as required by the No Child Left Behind Act of 2001 - on benchmarks to ensure that all students know and are able to complete grade-level work in reading and mathematics.

	Reading	Math
White Students	Unreportable	Unreportable
Hispanic Students	Yes	Yes
Black Students	Unreportable	Unreportable
Native American/Alaskan Native	Unreportable	Unreportable
Asian/Pacific Islander Students	Unreportable	Unreportable
Economically Disadvantaged	Yes	Yes
Students with Disabilities	Unreportable	Unreportable
English Language Learner	Yes	Yes

Updated: 12/8/2004 Source: Colorado Department of Education