



**La Cañada High School  
Track and Field Renovation Project**

**Conceptual Design Meeting  
2/17/2016  
3/15/16 Update**



# SITE PLAN



## GRAPHIC CONSIDERATIONS:

- 5 YARD ALTERNATING GREEN COLOR STRIPING
- 6' WIDE WHITE SIDELINE
- NEW CENTER GRAPHICS
- NAME PAINTED ON TRACK



## **INFILL OPTIONS: NON-ORGANIC**

### **CRUMB RUBBER + SAND**

- TEMPERATURE: 60° OVER AMBIENT
- ENVIRONMENTAL CONCERNS
- MOST WIDELY USED
- RECENT REFERENCE PROJECTS: SOUTH PASADENA, MONROVIA, ARCADIA

### **TPE/EPDM (NEW, CLEAN RUBBER, “NIKE GRIND” SIMILAR)**

- TEMPERATURE SLIGHTLY COOLER THAN CRUMB RUBBER
- GOOD GMAX TESTING RESULTS UPON INITIAL INSTALLATION; REQUIRES MAINTENANCE SIMILAR TO CRUMB RUBBER

### **TPE + CORK (“FIELDTURF COOLPLAY”)**

- COOLER TEMPERATURE THAN CRUMB RUBBER AND TPE, HIGHER THAN ORGANIC PRODUCTS
- POTENTIAL CORK PROBLEMS
- RECENT REFERENCE PROJECT: SAN MARINO USD

## **INFILL OPTIONS: ORGANIC**

### **ZEOFILL (ZEOLITE)**

- TEMPERATURE: LOWER THAN RUBBER, HIGHER THAN GEO PRODUCTS
- REQUIRES "THATCHED" TURF, CAN BE USED ON 1-1/4" PILE HEIGHT
- POSSIBLY ABRASIVE (LESS THAN SAND)
- THATCHED TURF PRODUCT RECOMMENDED FOR CONTAINMENT AND ABRASION PROTECTION
- RECENT REFERENCE PROJECT: LAUSD LEICHTY MS, JOHN FERRARO FIELD (GRIFFITH PARK - I-5 @ ZOO DRIVE)

### **SAND**

- TEMPERATURE: SIMILAR TO ZEOFILL
- CAN BE USED ON 1-1/4" PILE HEIGHT
- ABRASIVE
- THATCHED TURF PRODUCT RECOMMENDED FOR CONTAINMENT AND ABRASION PROTECTION
- RECENT REFERENCES: LAUSD WASHINGTON PREP HIGH SCHOOL, FAIRFAX HIGH SCHOOL

### **CORK**

- TEMPERATURE: SIMILAR TO ZEOFILL
- LIGHT, EASILY AIRBORNE, CAN WASH AWAY IN HEAVY RAINS

### **COCONUT FIBERS+SAND ("GEOFILL")**

- GEOFILL PRODUCT FROM SHAW SPORTS TURF
- TEMPERATURE: MUCH LOWER THAN ABOVE PRODUCTS
- MUST BE KEPT DAMP (WEEKLY WATERING)

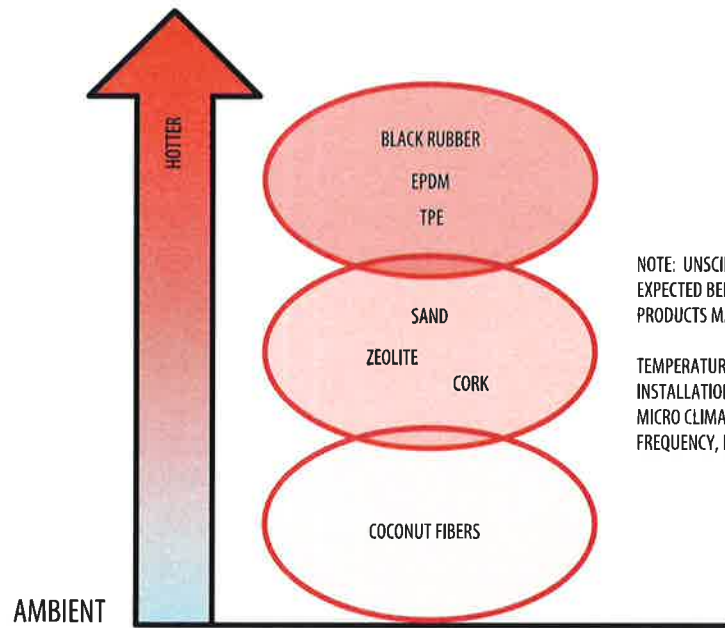
### **COCONUT FIBERS + CORK ("GREENPLAY")**

- TEMPERATURE SIMILAR TO COCONUT FIBERS, FIBERS KEEP CORK IN PLACE
- MUST BE CONTINUOUSLY DAMP (WEEKLY WATERING)

### **COCONUT FIBERS + RICE HUSKS + CORK ("GEOPLUS")**

- TEMPERATURE (PER SUPPLIER): 0-10° OVER AMBIENT
- MUST BE CONTINUOUSLY DAMP (WEEKLY WATERING)
- CLOSEST PLAY TO NATURAL GRASS
- RECENT REFERENCE: MADERA HIGH SCHOOL, CITY OF PERRIS, CITY OF OXNARD, CANADA COLLEGE, SKYLINE COLLEGE

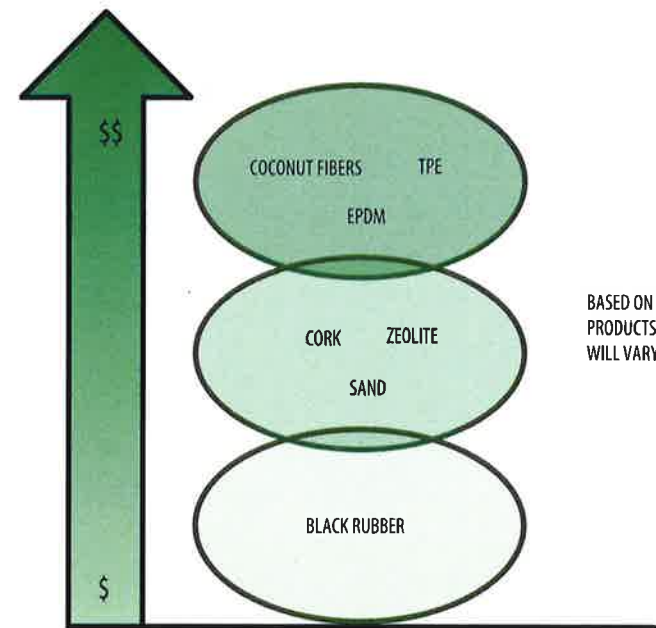
# INFILL COMPARISONS



NOTE: UNSCIENTIFIC DATA BASED ON EXPECTED BEHAVIOR OF MATERIALS. SPECIFIC PRODUCTS MAY VARY.

TEMPERATURE BEHAVIOR VARIES WITH EACH INSTALLATION, TURF TYPE, TIME OF YEAR, LOCAL MICRO CLIMATE, WATERING SYSTEM AND FREQUENCY, ETC.

## TEMPERATURE



BASED ON ESTIMATES, SPECIFIC PRODUCTS AND BID AMOUNTS WILL VARY

## INFILL COST

(NOTE: SHOCK PAD COST NOT INCLUDED, OPTIONAL FOR RUBBER AND TPE, REQUIRED FOR ALL OTHERS)

## SHOCK PADS

Shock Pads are installed under turf fields to provide GMAX cushion that is not dependent on the turf infill. In addition, some products can be used to provide drainage and potentially replace “flat drain” systems (for new installations only). Three possible options for use here are:

### BROCK SP14

- ±1/2" THICK (14mm)
- DESIGNED FOR REPLACEMENT FIELDS WITH EXISTING STONE BASE
- 16 YEAR WARRANTY
- \$1.20/SF INSTALLED

### PRO PLAY ECOSPORT

- ±1/2" THICK (16mm)
- DESIGNED FOR REPLACEMENT FIELDS WITH EXISTING STONE BASE
- 25 YEAR WARRANTY
- ±\$1.30/SF INSTALLED

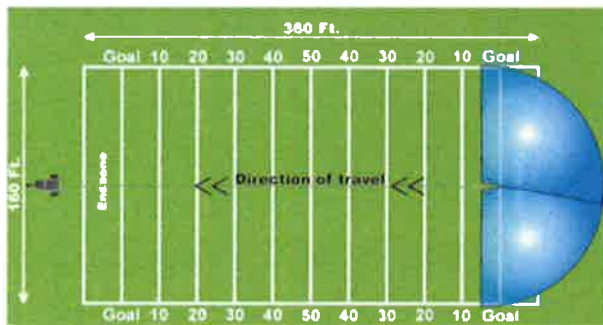
### BROCK POWER BASE YSR

- ±1" THICK (23mm)
- DESIGNED FOR MAXIMUM SAFETY FOR YOUNG ATHLETES
- LIMITS TURF CHOICE FOR FIELD REPLACEMENT
- ±\$1.90/SF INSTALLED
- 25 YEAR WARRANTY



# WATERING SYSTEM OPTIONS - PORTABLE

## KIFCO WATER REEL



- BOOSTER PUMP INCLUDED WITH SYSTEM (IF NEEDED)
- GAS POWERED RETURN AND PUMP
- REQUIRES WATER HOOKUP NEAR FIELD
- REQUIRES SMALL GATOR FOR HOSE EXTENSION
- ESTIMATED COST: \$25K WITH PUMP
- REFERENCE PROJECT: UCLA PRACTICE FIELDS

## UNDERHILL MIRAGE MTG-180 PORTABLE



- 60 PSI OPERATING PRESSURE
- MAY NOT REQUIRE BOOSTER PUMP (DEPENDS ON SITE WATER PRESSURE)
- 105-180 FOOT SPRAY RADIUS