

Osage Station Park Master Plan Update Town of Danville

November 10, 2010



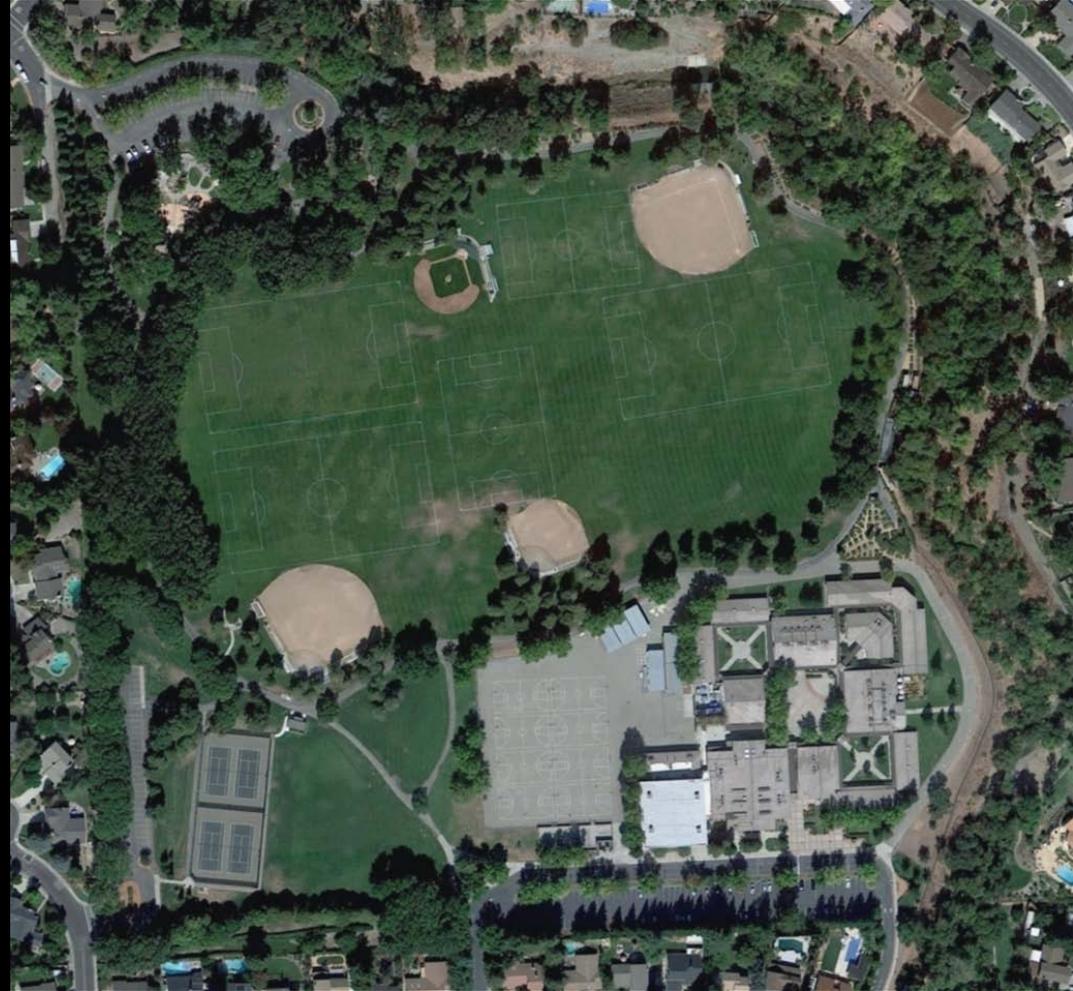
VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN



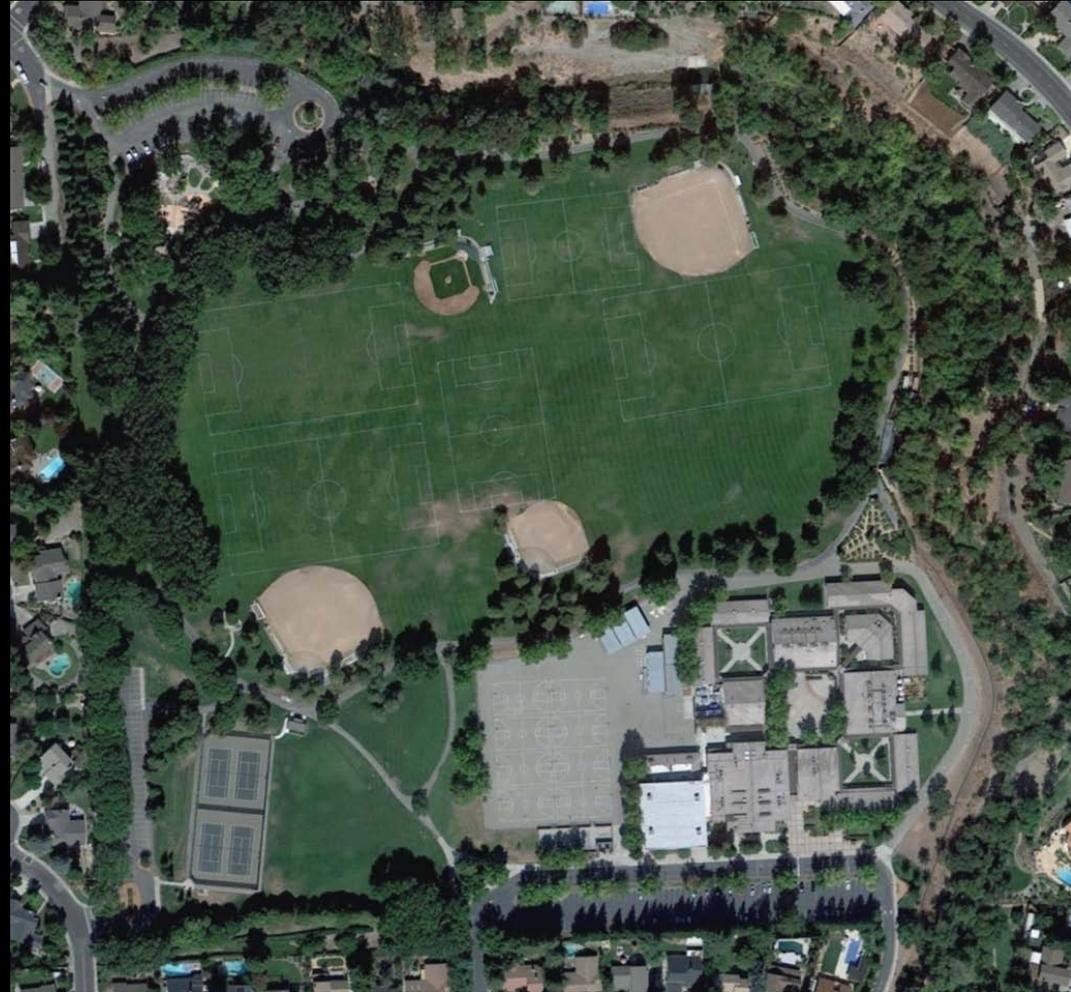
Osage Station Park Master Plan Update – Why?

- Planning process to ensure Parks, Recreation and Leisure Services (PRLS) provides the community with the opportunity to input on the future direction of the park.
- PRLS need to address changing rules and regulations.



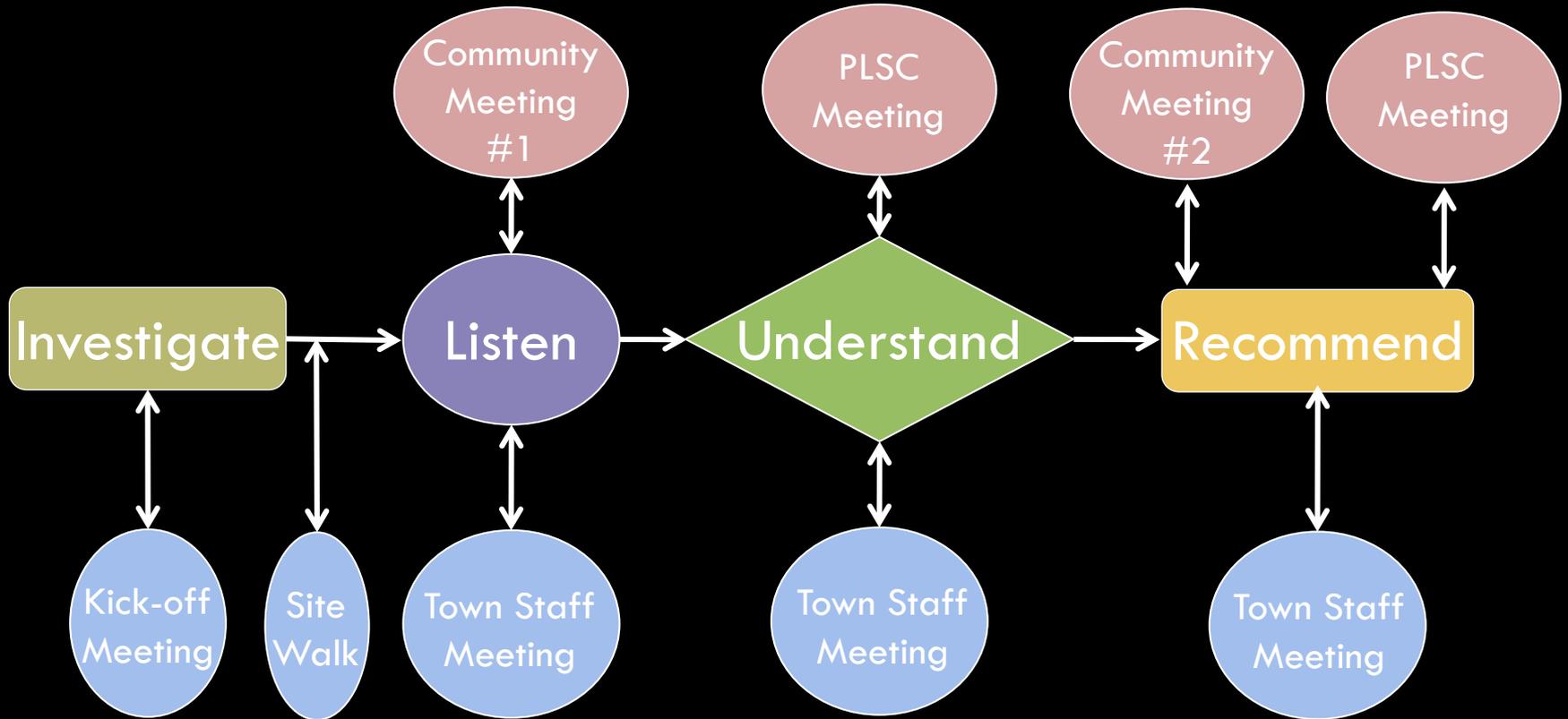
Osage Station Park Master Plan Update – Known Issues

- Address circulation and parking issues.
- Replacement structure for the existing Snack Shack
- Reduce water usage (Drought and AB 1881)
- Replace water feature
- Respond to accessibility issues
- Update play equipment

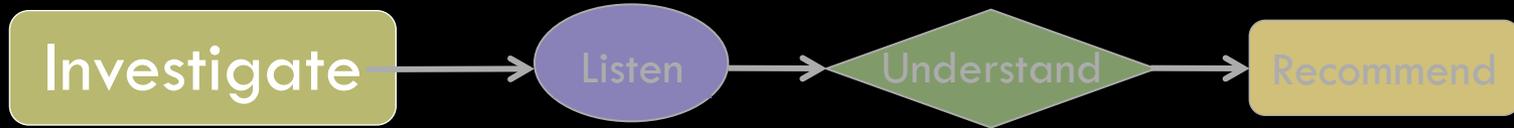


Master Plan Process

(Tonight!)



Investigate



- A. Project pre-planning
- B. Kick-off meeting with Staff
- C. Review and organize existing information
- D. Site visit with Town Staff
- E. Review and analyze Site Information
- F. Draft Community Questionnaire
- G. Prepare Site Topographic Survey



Site Visit

- Programmed Space
- Passive/Open Space
- Circulation
- Operations/
Maintenance

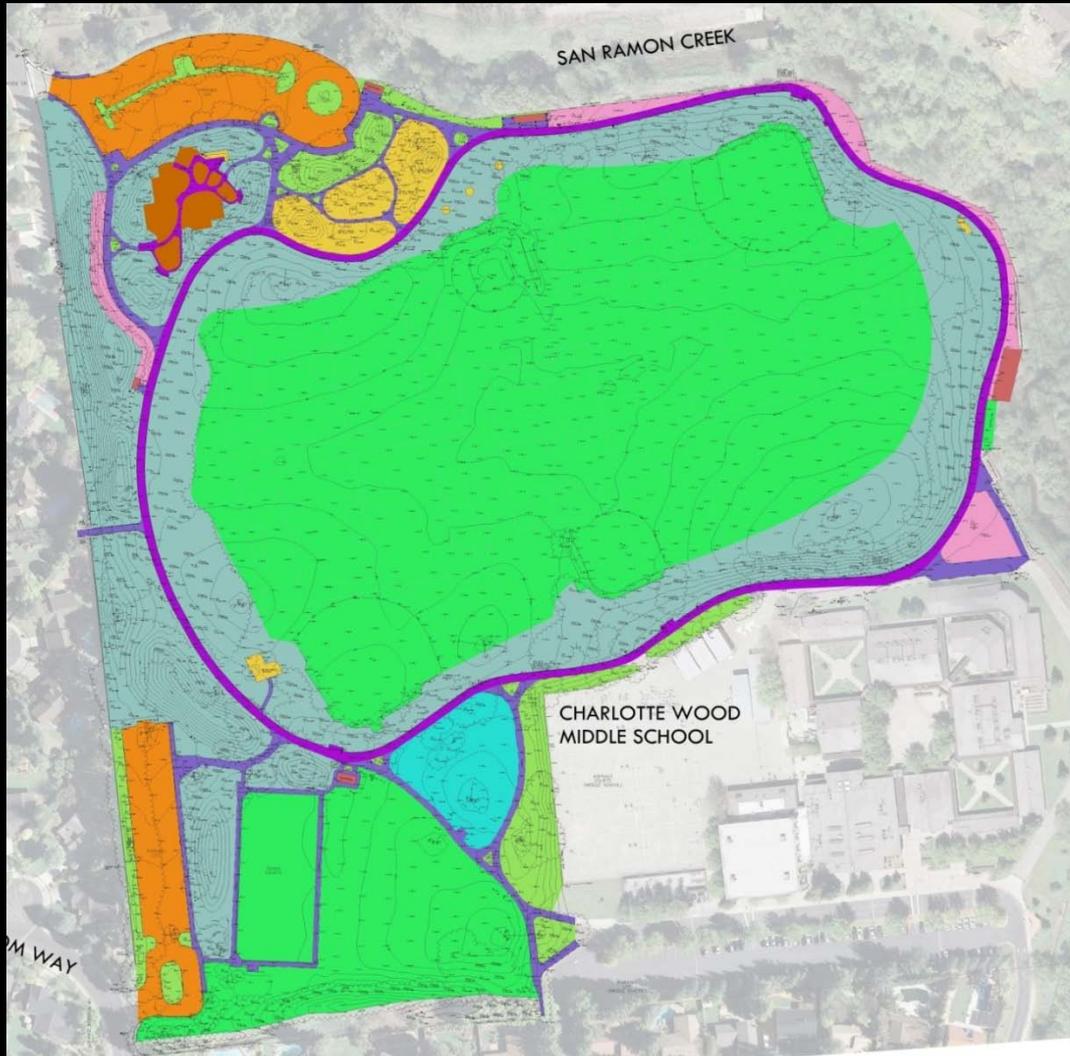


Site Analysis



- o Booce
- o Additional group picnic
- o Frisbee golf
- o Performance area

Site Analysis - Programming

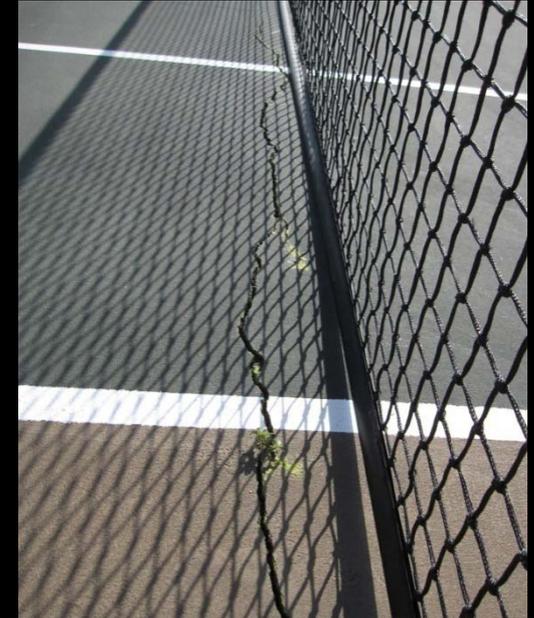


KEY LEGEND

-  ATHLETIC EVENT AREA - ACTIVE
-  POTENTIAL ATHLETIC EVENT AREA - ACTIVE
-  PLAYGROUND AREA - ACTIVE
-  PATHWAY - ACTIVE
-  PATHWAY - PASSIVE
-  PICNIC / SEATING AREAS - PASSIVE
-  ROSE GARDEN AREAS - PASSIVE
-  PLANTING AREAS - PASSIVE
-  BUILDINGS / MAINTENANCE AREAS
-  PARKING AREAS
-  'UNPROGRAMMED' SPACE

Programmed Recreation Uses

- Playground
- Water Play
- Tennis Courts
- Athletics
- Vita Course
- New or unmet uses?

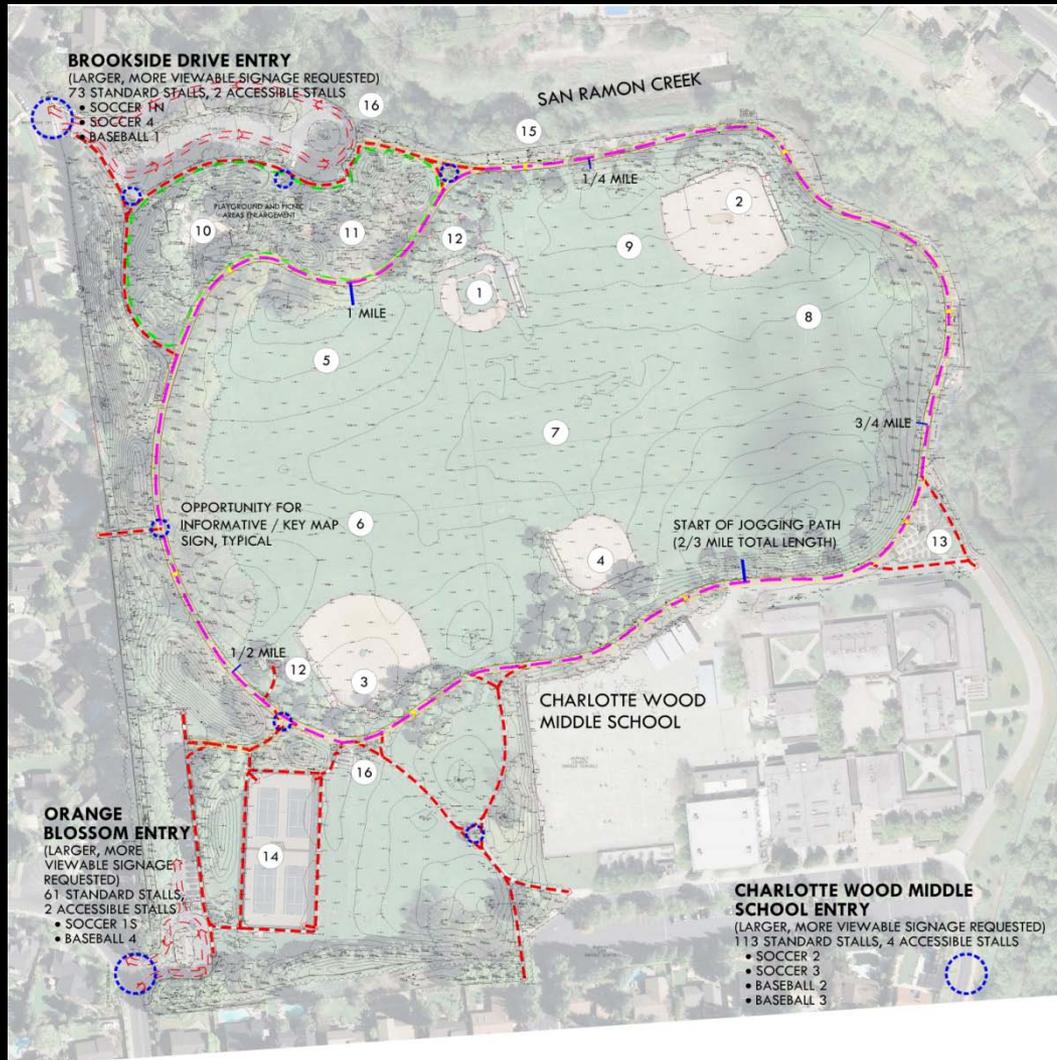


Passive Recreation

- More benches
- Game tables
- Open spaces
- Field viewing
- Picnic areas
- BBQ's



Site Analysis - Circulation



KEY LEGEND

-  PEDESTRIAN CIRCULATION ROUTE
-  PEDESTRIAN (JOGGER'S) CIRCULATION ROUTE
-  VEHICULAR CIRCULATION ROUTE
-  MAINTENANCE / EMERGENCY VEHICLE ACCESS
-  NO PAVED ACCESS TO FIELDS / PICNIC AREAS
-  PEDESTRIAN ACCESS POINT
-  VEHICULAR CIRCULATION ACCESS POINT
-  PEDESTRIAN CIRCULATION INTERSECTION
-  1 BASEBALL 1 - 'MAJORS' LITTLE LEAGUE FIELD
-  2 BASEBALL 2 - 'AA' LITTLE LEAGUE FIELD
-  3 BASEBALL 3 - 'JUNIOR/SENIOR' FIELD
-  4 BASEBALL 4 - 'AAA' FIELD
-  5 SOCCER FIELD 1N - 65 YARDS X 110 YARDS
-  6 SOCCER FIELD 1S - 65 YARDS X 110 YARDS
-  7 SOCCER FIELD 2 - 50 YARDS X 80 YARDS
-  8 SOCCER FIELD 3 - 65 YARDS X 110 YARDS
-  9 SOCCER FIELD 4 - 50 YARDS X 70 YARDS
-  10 PLAYGROUND AND WATER PLAY AREA
-  11 GROUP PICNIC AREA
-  12 INDIVIDUAL/GROUP PICNIC AREA
-  13 ROSE GARDEN
-  14 TENNIS COURTS
-  15 CONCESSION/STORAGE BUILDING
-  16 RESTROOM BUILDING

Site Analysis - Investigate

- Review Town and Park Standards
- Investigate related CIP projects
- Explore Contra Costa County Clean Water program improvement options and site stormwater easement
- Examine Contra Costa County water play and concession requirements

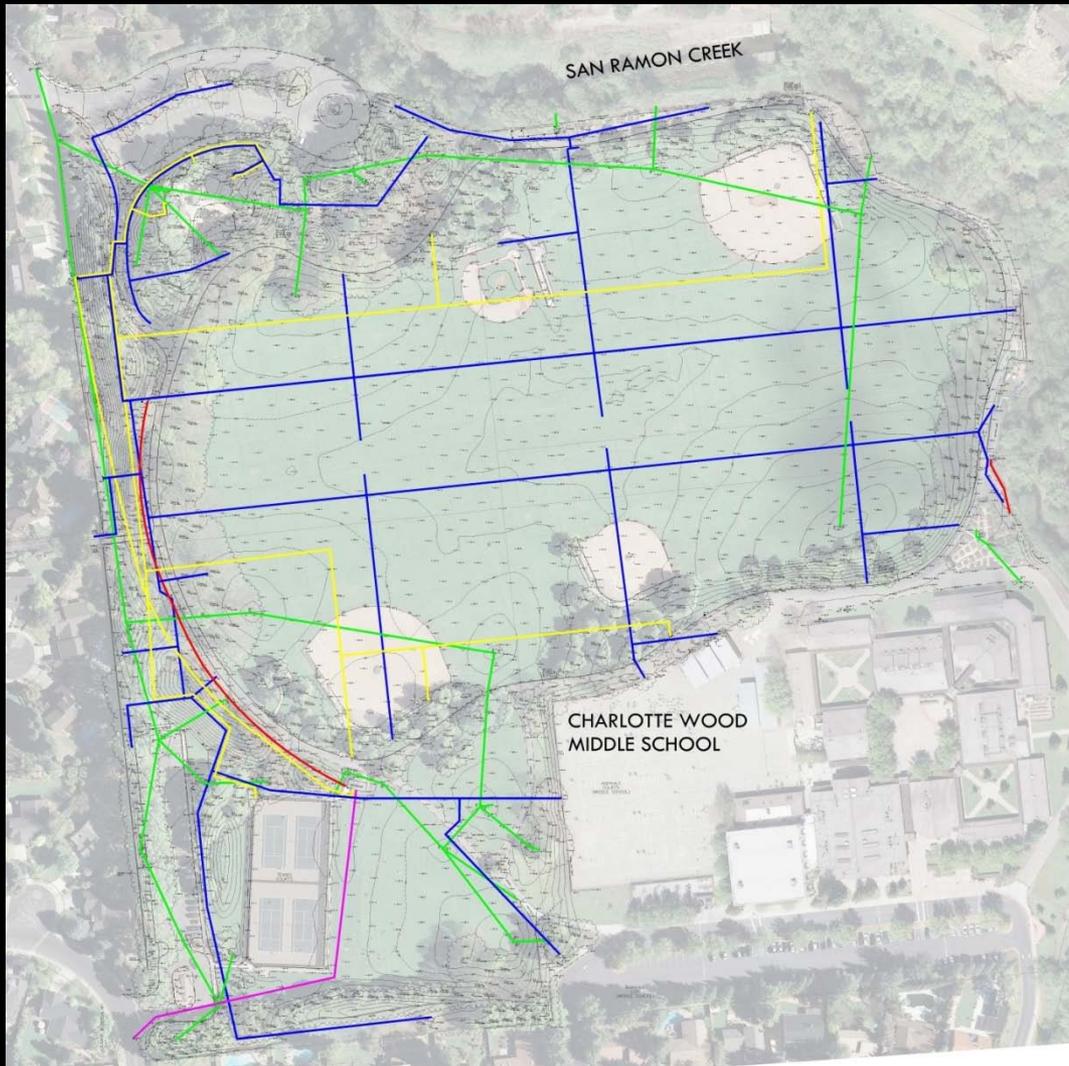


Site Analysis - Infrastructure

- Assess existing systems
- Needs for future items:
 - Communications
 - Solar
 - Pedestrian lighting
- Domestic water needs?
- Irrigation system
- Electrical needs?
- Storm water system needs?
- Sewer system needs?
- Paving and access needs?



Site Analysis - Infrastructure



KEY LEGEND

-  STORM DRAIN LINE
-  SANITARY SEWER LINE
-  IRRIGATION WATER LINE
-  DOMESTIC WATER LINE
-  ELECTRICAL LINE

Site Analysis - Irrigation

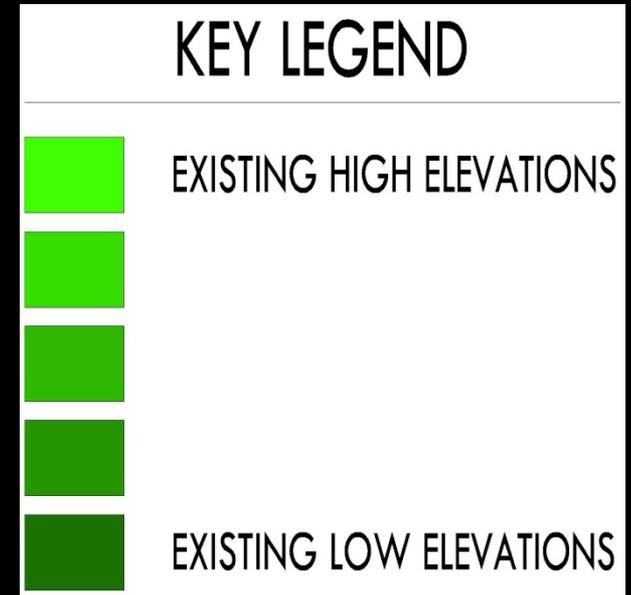
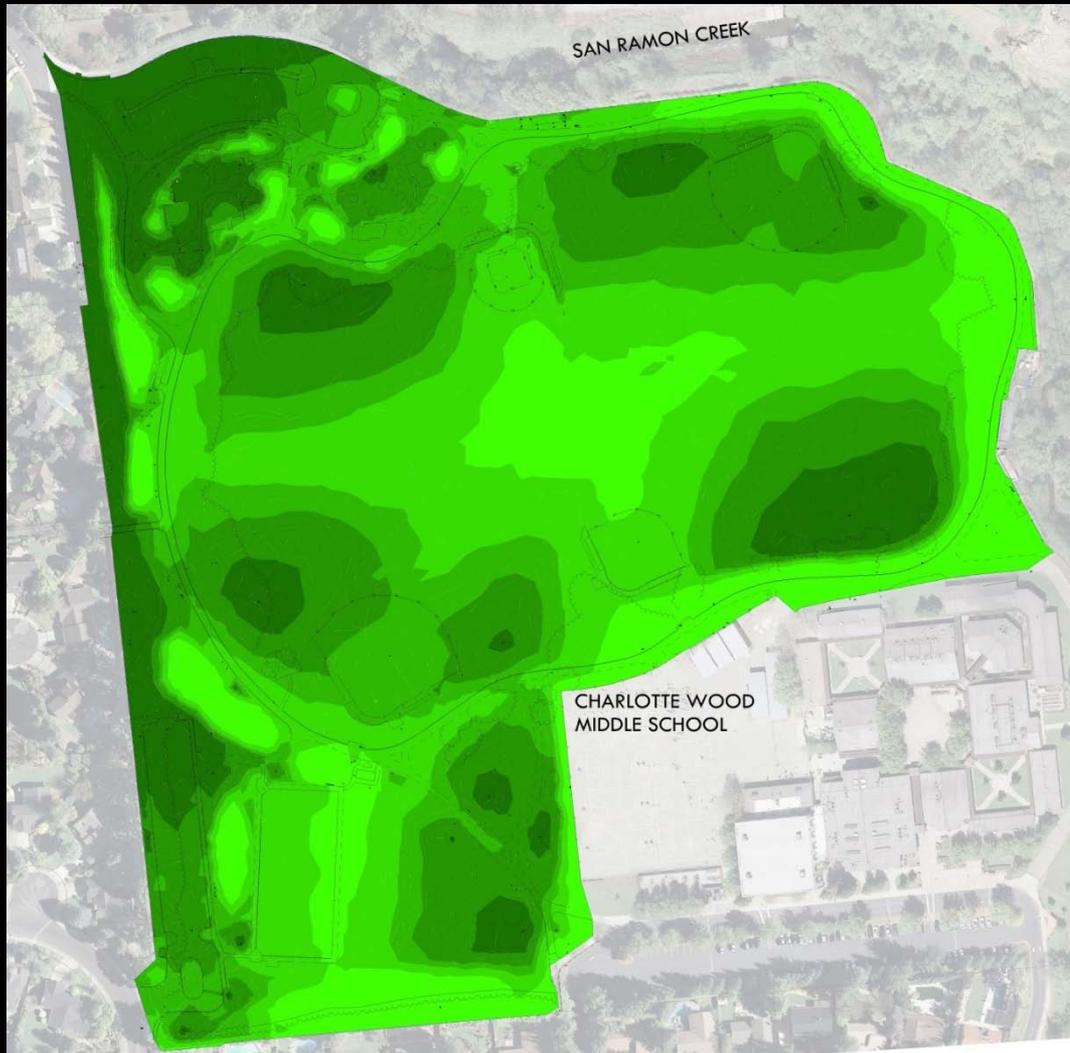
- Water conservation – AB 1881
- Central control system
- Moisture sensors & weather stations
- Concrete boxes
- Box locations
- Audit system?
- Age of system?



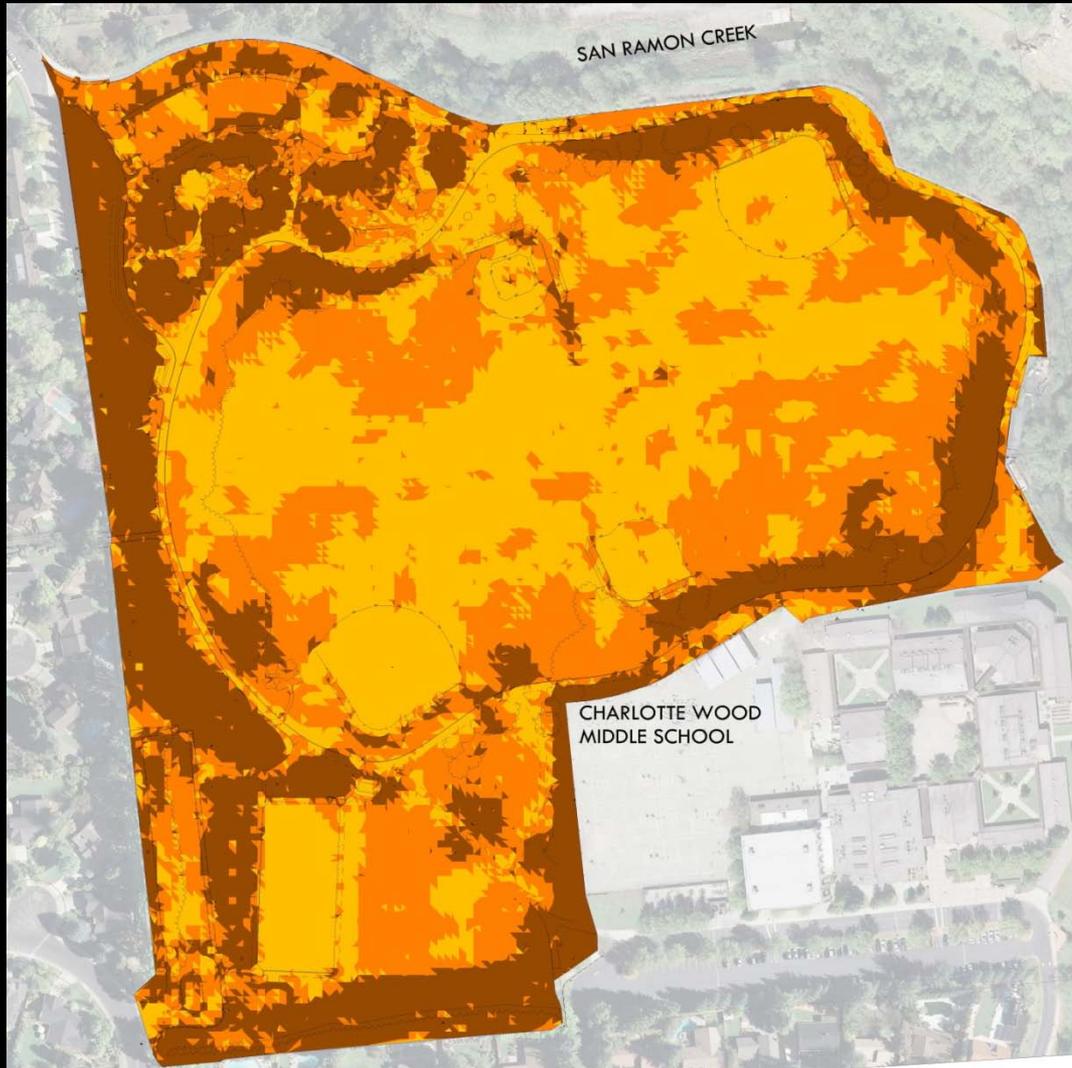
Site Analysis - Irrigation

- The project's Estimated Total Water Use of 1,174,170 gallons a year per acre is calculated using the following formula:
- Where:
 - ETWU = Estimated total water use per year (gallons per year)
 - ETo = Reference Evapotranspiration (inches per year) – 46.2
 - PF = Plant Factor from WUCOLS (see Definitions) - .80
 - HA = Hydrozone Area [high, medium, and low water use areas] (square feet) – 43,560
 - 0.62 = Conversion Factor (to gallons per square foot)
 - IE = Irrigation Efficiency (minimum 0.71) - .85
- $$ETWU = \frac{(46.2 \times 0.62) \times (.80 \times 43560)}{.85}$$
$$28.64 \times 40,995 = 1,174,170 \text{ gal/acre/Year}$$
- **35 Acre Park - est. 5.75 million gallons of water can be saved**
 - Estimate 70% covered with turf=24.5 ac of turf
 - 20% turf reduction (4.9 ac) equates to 5.75 million gallons in

Site Analysis - Topography



Site Analysis - Slope



KEY LEGEND



EXISTING SLOPES THAT ARE GRADUAL (LESS THAN 2.3%)



EXISTING SLOPES THAT ARE LESS GRADUAL (BETWEEN 2.3% AND LESS THAN 6.3%)



EXISTING SLOPES THAT ARE SEVERE (MORE THAN 6.3%)

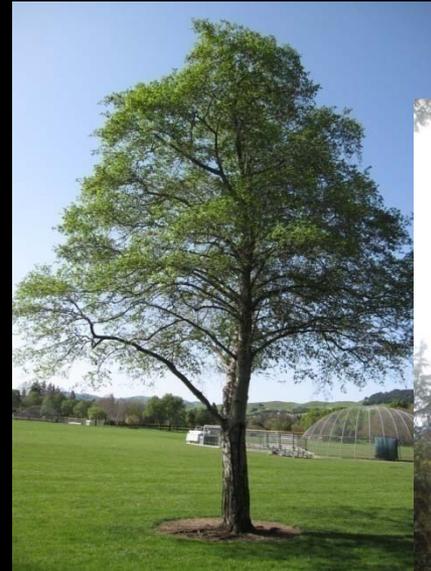
Stormwater Quality Approach



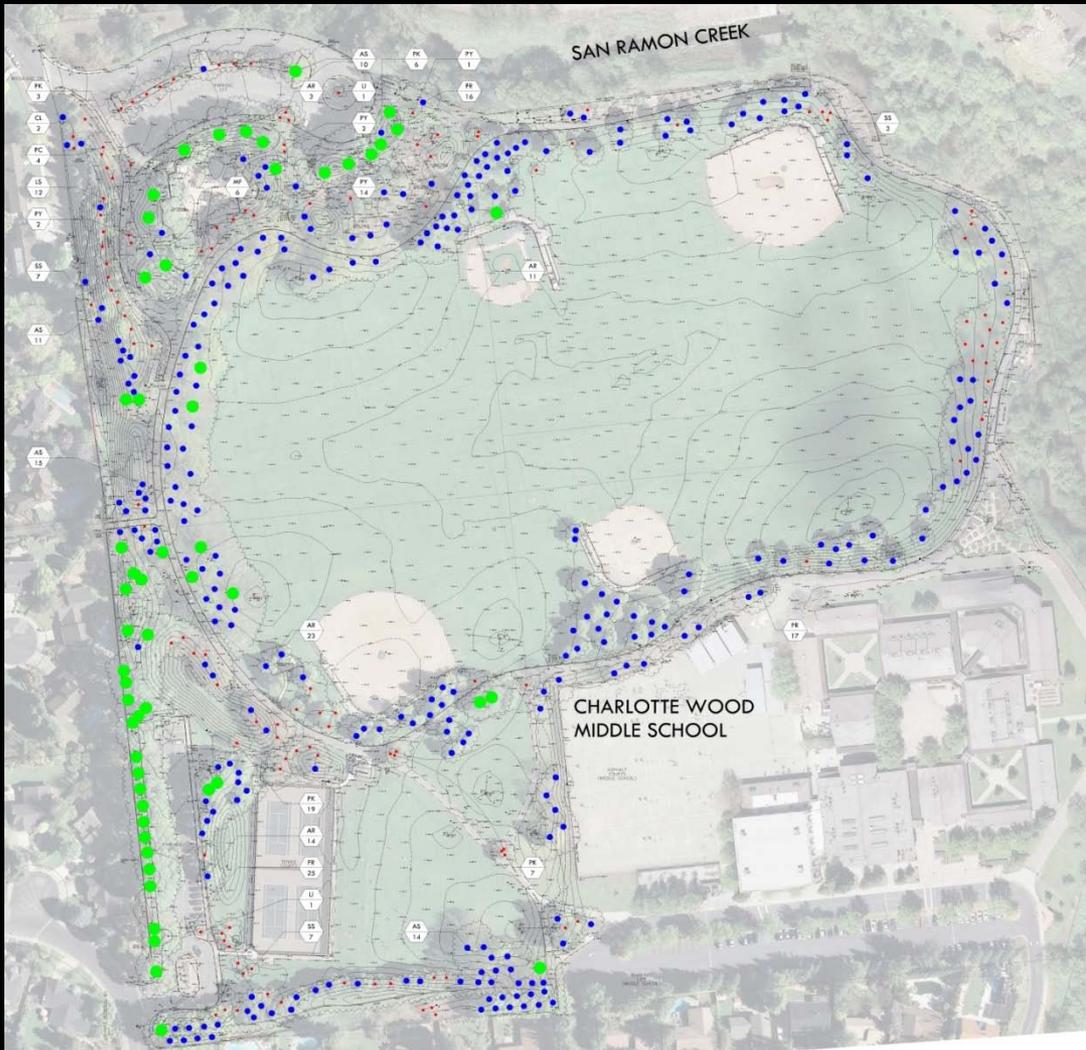
- C3 recommendations
- Storm Water Recapture
- Slopes on parks' perimeters
- Bio-swales
- Permeable Paving
 - Large paving areas
 - Parking areas

Plantings

- Trees
 - Major asset
 - Arborist review?
 - Succession Plan
- Turf
 - Reduction and alternatives?
 - Utilize other ground plane options
 - Edge bands for maintenance
- Plantings and Roses
 - Replace/enhance shrub plantings?
 - Maintain Rose gardens
- Creek edge
 - Setback requirements?
 - Habitat restoration



Site Analysis - Trees



TREE SURVEY

TREE VARIETIES

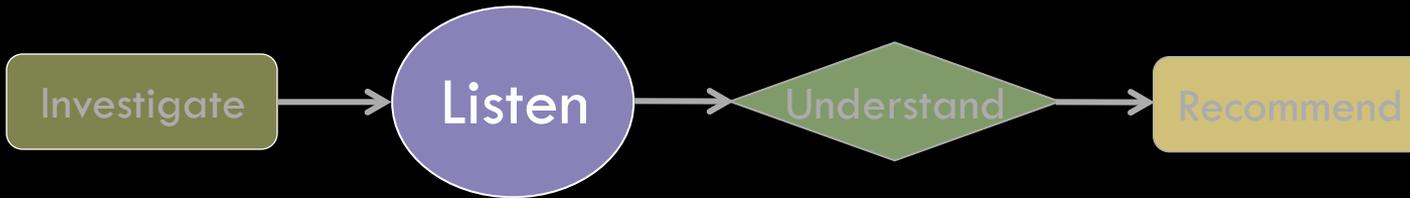
| SYM | QTY | BOTANICAL / COMMON NAME |
|-----|-----|--|
| AS | - | ACER SACCHARINUM SILVER MAPLE |
| AR | - | ALNUS RHOMBIFOLIA WHITE ALDER |
| CL | - | CUPRESSOCYPARIS LEYLANDII CEDAR |
| FR | - | FRAXINUS UHDEI EVERGREEN ASH |
| LI | - | LAGERSTROEMIA INDICA CREPE MYRTLE |
| LS | - | LIQUIDAMBER STYRACIFLUA AMERICAN SWEET GUM |
| MF | - | MALUS FLORIBUNDA JAPANESE FLOWERING CRABAPPLE |
| PC | - | PISTACIA CHINENSIS CHINESE PISTACHE |
| PK | - | PYRUS KAWAKAMII EVERGREEN PEAR |
| PR | - | PLATANUS RACEMOSA CALIFORNIA SYCAMORE |
| PS | - | PRUNUS SERRULATA FLOWERING CHERRY |
| PY | - | PRUNUS X YEDOENSIS 'AKEBONO' FLOWERING CHERRY |
| SS | - | SEQUOIA SEMPERVIRENS COASTAL REDWOOD |

TREE SIZES

| | |
|---|-----------------------------|
| ● | TREES UNDER 12" IN DIAMETER |
| ● | TREES 12"-24" IN DIAMETER |
| ● | TREES OVER 24" IN DIAMETER |

NOTE: UNIDENTIFIED TREE VARIETIES SHOWN WILL BE ASCERTAINED FROM FUTURE SITE VISITS.

Listen



- A. Town Staff meeting and input
- B. Refine community questionnaire
- C. Questionnaire distribution
- D. Questionnaire compellation
- E. Prepare for first community meeting
- F. Community meeting number one **Tonight!**
- G. Needs assessment preparation



Community Meeting & Input

First Community Workshop -

- Opportunity for Community Input
 - Review survey results to date
 - Review Specific Elements
 - General Comments
- Prepare a Needs Assessment



Community Survey – Previous Results



GOALS AND OBJECTIVES

AS STATED IN TOWN OF DANVILLE'S PARKS, RECREATION AND ARTS STRATEGIC PLAN
(ADOPTED FEBRUARY 7, 2006)

A CHECKOUT FOR SPORTS EQUIPMENT AND BOARD GAMES

INSTALLING PERMANENT GAME TABLES

MORE SHADED AND COVERED AREAS

ADDITIONAL PICNIC AND BARBEQUE SPACE

INTEGRATING ART ELEMENTS

EXISTING PLAY AREA TO BE REFURBISHED BY VOLUNTEERS

CONSIDERATION BY THE TOWN FOR PARK TO HOST ART PERFORMANCES

QUIET, REFLECTIVE SPACES

GATHERING PLACE FOR SENIORS

DIRECTIONAL SIGNAGE TO OSAGE STATION PARK - IN DESIGN

MORE BENCHES AND SEATING ALONG THE WALKWAY - PARTIALLY COMPLETED

A PARK SITE MAP - IN DESIGN

A SECOND PERMANENT RESTROOM - COMPLETED

Community Survey Current Results



- 53% of the parks users are between the ages of 2-15.
 - 28% of park users are between the ages of 6-12.
 - 30% of park users are between the ages of 35-54.
- 54% of the responders use the park on a daily, weekly or more than weekly basis.
 - 8% - Daily
 - 30% - Weekly
 - 24% - More than once a week.

Community Survey Current Results



- 48% say the number one reason they use the park is sports.
- 27-28% Use the park for exercise or use a specific facility at the park.
- 18% to enjoy the outdoors.
- 13% for family activities and outings.

Community Survey Current Results



- Please rate the necessity of including the following park facilities into Osage Station Park.

| | Required | Optional | Unnecessary | Count |
|---------------------------------------|-------------|-------------|-------------|-------|
| • Age- appropriate play structures | 90.7% (370) | 8.3% (34) | 1.0% (4) | 408 |
| • Community Center | 11.8% (46) | 56.6% (220) | 31.6% (123) | 389 |
| • Creek access | 11.8% (47) | 50.8% (203) | 37.5% (150) | 400 |
| • Group picnic areas | 77.1% (314) | 20.6% (84) | 2.2% (9) | 407 |
| • Natural open space areas | 80.1% (326) | 17.2% (70) | 2.7% (11) | 407 |
| • Passive recreation support elements | | | | |
| • such as benches, shelters, etc. | 80.1% (330) | 18.0% (74) | 1.9% (8) | 412 |
| • Sports fields | 88.0% (365) | 9.2% (38) | 2.9% (12) | 415 |
| • Skate park | 7.8% (31) | 43.6% (174) | 48.6% (194) | 399 |
| • Water play feature | 39.7% (162) | 46.6% (190) | 13.7% (56) | 408 |

Community Survey Current Results



- 71% of park users utilize the internal pathway for exercise.
- 37% Either desired or highly desired art.
 - Approximately 50% of the people thought adding art through Park Furniture, Sculpture and Play Structure Elements.
- 33% Did not desire art.
- 75% did not want to adjust the service from current standards.
- 49.3 % of those surveyed identified storm water recapture and reuse as the first step to reducing water at Osage Station Park.

Community Survey Current Results



- On average 52% of survey respondents who are residents of Danville are willing to pay 50% of the share of costs for individual activities.
- 52% of non-residents responding to this survey question are willing to pay 100% of individual activity fees.
- Shade is the most important item for group picnic areas. (67%)
- Backed benches were identified by 64% of the respondents as the preferred seating. Picnic tables were second with 29%.

Community Survey Current Results

- Top “required” support elements of a playground in order are:
 - Bathroom nearby - 83% of respondents
 - Shade - 74% of respondents
 - Trash Receptacle – 63% of respondents
 - Drinking Fountain – 41% of respondents
- Interactive Elements (63% of respondents) were the number one desired component of a water feature.
 - Protected age-appropriate areas, shade and physical features were next at roughly 50% of the respondents.
- The walking path is by far the most used individual item in the park.

Needs Assessment

- Project Program
- Survey Assessment:
 - Programs
 - Facilities
 - Passive areas
 - Circulation
 - Fields
 - Play Area
 - Building
 - Infrastructure
 - Sustainable Elements
- Identify priorities and conflicts



Play Area & Water Play

- Code compliance
- Access
- Location
- New structure
- Interactive Water play
 - Splash pad
 - Recirculating
- Theme



Passive Use

- Walking Path
- Art integration
 - School assistance
 - Community artists
- Benches
- Viewing areas
- Rose gardens
- Plant ID information
- Shade



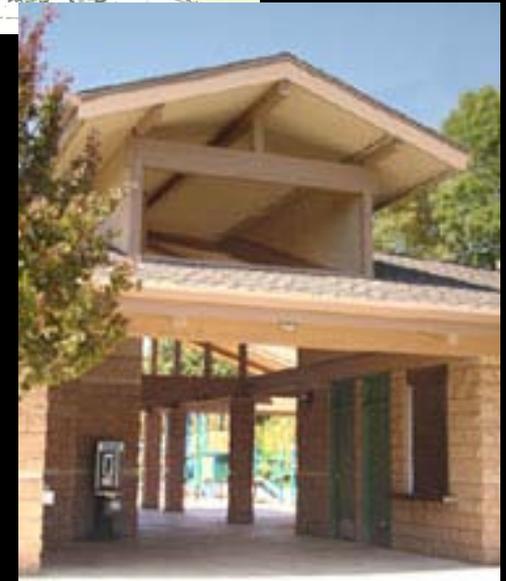
Field Layout & Design

- Existing conditions
- More efficient configurations?
- Use relationships
- Temporary fencing
- Goal storage
- Better drainage
- Infield drainage issues?
- Storage – uniform system
- Dugouts – roof and sun protection
- Backstops – climbing issues?



Buildings

- Concessions
- Community room options
- Maintenance area?
- Integrate with park uses
 - Event area?
 - Use connection



Unifying Components



VERDE DESIGN



Osage Station Park Master Plan Update,
Town of Danville

11.10.10

Signage

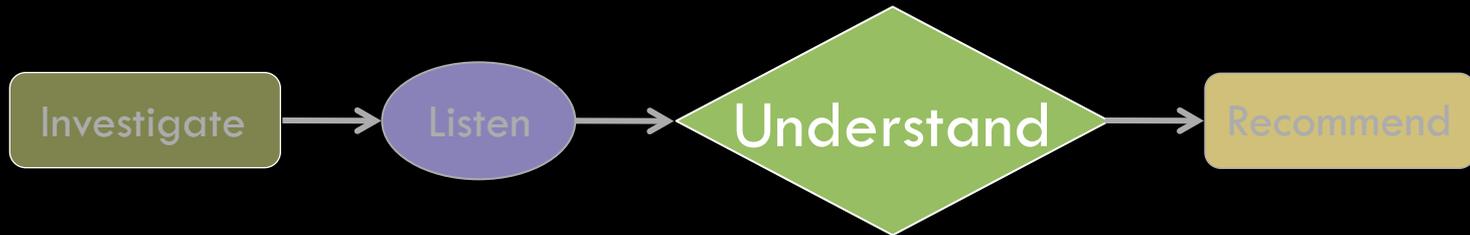


Maintenance & Operations

- Code Compliance
- Water management
- Operationally efficient
- Reduce routine maintenance



Understand



- A. Develop Conceptual alternatives
 - Preliminary Environmental Review
- B. Meet with Town Staff
- C. Refine Conceptual Alternatives for PLSC informational presentation
- D. Prepare the PLSC Packet
- E. Present to the PLSC



Questions & Answers

