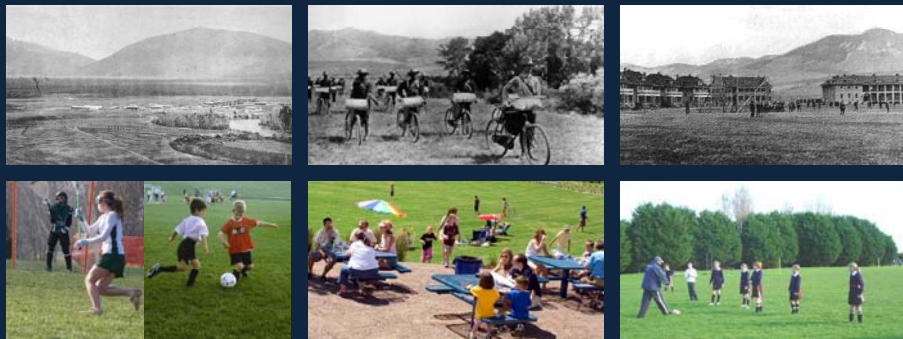


FORT MISSOULA REGIONAL PARK MASTER PLAN REFINEMENT/ DESIGN DEVELOPMENT

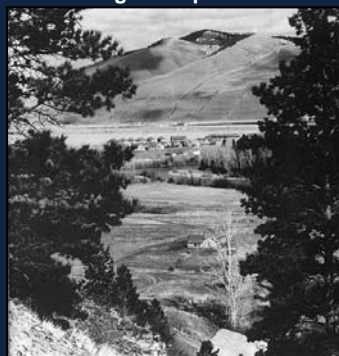


Parks & Recreation
City of Missoula • 100 Hickory Street • 721-PARK
www.missoulaparks.org

DHM Design/WGM Group | December 3, 2008

MASTER PLAN REPORT

Fort Missoula Regional Park
Guiding Principals 6/14/01



CONCEPT OF A REGIONAL PARK

- PROVIDE MULTIPLE USES THAT ATTRACTS USERS NOT ONLY FROM MISSOULA, BUT ALSO FROM ENTIRE COUNTY AND REGION.

- STRIVE TO BALANCE MANY INTERESTS AND NEEDS

- PROVIDE MIX OF DEVELOPED AND UNDEVELOPED PARK AREAS

STEERING COMMITTEE ORIGINAL ASSUMPTIONS

- DEVELOP THE PARK IN PHASES

- CONTEXT OF SITE SHOULD PLAY ROLE IN DECISION MAKING (HISTORIC SITE, ALONG BITTERROOT RIVER, HOME TO MANY PUBLIC AGENCIES AND COMMUNITY ORGANIZATIONS).

-RECOGNIZE LIMITED SPACE WITH MULTIPLE DEMANDS

- PROVIDE FACILITY FOR PUBLIC ENJOYMENT AND BENEFIT

-- PROVIDE FOR INDOOR AND OUTDOOR FACILITIES

- CONSIDER ONGOING MAINTENANCE COSTS

- FACILITIES SHOULD SERVE BOTH ADULT & YOUTH COMPETITIVE PLAY

- PROVIDE FOR RESTROOMS, PARKING, CONCESSIONS, STORAGE & MAINTENANCE FACILITIES

- COMPLY WITH ADA

- INCLUDE PASSIVE RECREATION

- ACKNOWLEDGE, PRESERVE AND ENHANCE UNIQUE HISTORIC VALUES

- ENCOMPASS DIVERSE ACTIVITIES

- SERVE PEOPLE OF ALL ABILITIES, AGES AND INCOME GROUPS

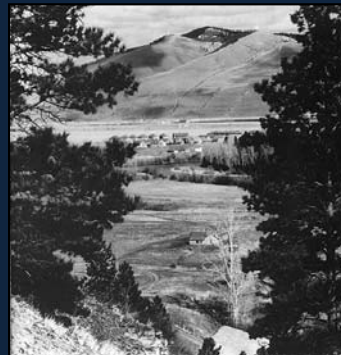
- PARK DESIGN & CONSTRUCTED WITH ENVIRONMENTAL SENSITIVITY

-INCLUDE WILDLIFE, RIPARIAN & OPEN AREAS

- MAINTAIN NATURAL VISTAS AND VIEWS

ADOPTED MASTER PLAN

Fort Missoula Regional Park
August 2002





STAKEHOLDERS MEETING DESIGN CONSIDERATIONS/ PROGRAM

April 8-9, 2008



STAKEHOLDERS INCLUDED:

FRIENDS OF FORT MISSOULA REGIONAL
PARK
FORT MISSOULA HISTORICAL MUSEUM
ROCKY MOUNTAIN MILITARY MUSEUM
NORTHERN ROCKIES HERITAGE CENTER
MISSOULA COUNTY
MISSOULA COUNTY PUBLIC SCHOOLS
UNIVERSITY OF MONTANA
MISSOULA PARKS BOARD
ULTIMATE
STRIKERS
MAGGOTS
YMCA

DESIGN CONSIDERATIONS/ PROGRAM

FIELD SIZES AND PROGRAM NEEDS OF PARK:

- PROVIDE SAFE ENTRY ROAD CONNECTION TO SOUTH AVENUE
- MAINTAIN ALIGNMENT OF GUARDSMAN LANE APPROACHING MUSEUMS
- PROVIDE NARROW, MEANDERING ROADS TO SLOW TRAFFIC.
- STAY CLEAR OF "TRASH SCATTER", NON DISCLOSURE OF SITE (MAINTAIN 30 CM HORIZON)
- PROVIDE FACILITIES TO HOST TOURNAMENTS AT HOME
- 8 to 10 MULTIUSE FIELDS (SOCCER, RUGBY, FOOTBALL AND ULTIMATE)
70M X 120M WITH 10 TO 15 YDS BETWEEN FIELDS, 10 YDS AT ENDS OF FIELDS
- POSSIBLE PREMIER SOCCER PITCH (ARTIFICIAL TURF FOR EARLY AND LATE SEASON GAMES) LOCATE IN FAR CORNER
- PREMIER RUGBY PITCH (144M X 70M)
- POSSIBLE BLEACHERS AT PREMIER FIELDS
- ULTIMATE NEEDS 40 YD X 120 YD FIELDS FOR TOURNAMENTS
- STORAGE FOR SOCCER, STORAGE WITH SCOREBOARD FOR RUGBY
- RESTROOMS, STORAGE AND POSSIBLE CONCESSION BUILDING (GROUP TOGETHER RATHER THAN SPREADING ACROSS SITE)
- PROVIDE PARKING LOTS, NOT ALONG ROADS.
- PICNIC SHELTERS FOR GROUPS OF 40, 200 AND 500
- POSSIBLE COVERED SHELTER FOR ICE SKATING

CULTURAL RESOURCES

WORKING WITH WESTERN CULTURAL, INC,
April –September 2008



**PRESERVE AND MAINTAIN THE HISTORIC DOUBLE ROW OF TREES
(USE TREES WITH SIMILAR SIZE AND SHAPE)**

AVOID INTRODUCING TRAFFIC IMPACTS AT OFFICERS ROW

**PROVIDE PEDESTRIAN CONNECTIONS TO ADJACENT AREAS
OF FORT MISSOULA**

PROVIDE INTERPRETIVE SIGNAGE TO ENHANCE THE PARK EXPERIENCE



OFFICERS ROW



**MAINTAIN BUFFER ZONE AROUND POST CEMETERY
ALONG WITH VEHICULAR ACCESS AND PARKING**

AVOID NON-COMPATIBLE ARCHITECTURE

AVOID IMPACTS OF NONCOMPATIBLE USES

**STAY CLEAR OF "TRASH SCATTER", NON DISCLOSURE OF SITE
(MAINTAIN 30 CM HORIZON)**



POST CEMETERY



CCC WAREHOUSE



SIGNIFICANT HISTORIC PERIODS
ORIGINAL FORT MISSOULA 1877-1900
FORT RECONSTRUCTION 1900-1912
CIVILIAN CONSERVATION CORPS. 1933-1941
WWII INTERNMENT CAMP 1941-1947

HISTORIC LANDSCAPES
"CITY BEAUTIFUL"
1880-1920

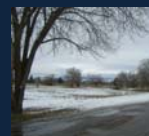
CIVILIAN CONSERVATION CORPS. (CCC)
1933-1941



Figure 16. Aerial view of Fort Missoula, looking west, 1941, note trees on Original Fort Road, Second Parade Grounds and from the CCC landscaping activities (1933-41, James E. Sherry Collection, Archives and Special Collections, The University of Montana).



Figure 17. Post Hospital, nd. Note elements of the City Beautiful Movement, decorative street lamps, landscaping, railroad headquarters. (18-463, Archives and Special Collections, The University of Montana).



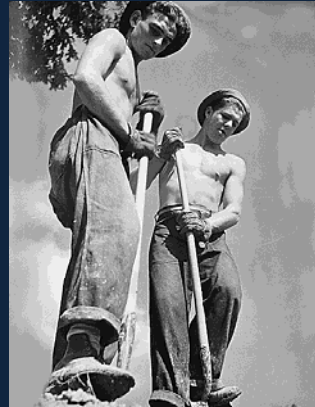
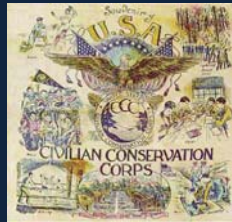
THE CIVILIAN CONSERVATION CORPS WAS PART OF PRESIDENT FRANKLIN D. ROOSEVELT'S NEW DEAL PROGRAM, FROM 1933- 1941



THE CIVILIAN CONSERVATION CORPS (CCC) HAD TWO PURPOSES. ONE TO CONSERVE OUR NATURAL RESOURCES AND THE OTHER TO PUT AMERICANS BACK TO WORK DURING THE GREAT DEPRESSION.

ROADWAYS, LODGES, CABINS, RECREATION STRUCTURES, TRAILS, PARKS, BRIDGES AND THOUSANDS OF TREES WERE PLANTED AS PART OF THE CCC PROGRAM.

75 YEAR ANNIVERSARY



FORT MISSOULA SERVED AS THE CIVILIAN CONSERVATION CORP. (CCC) TRAINING, SUPPLY AND ADMINISTRATION CENTER FOR THE ROCKY MOUNTAIN REGION. WORKERS WERE MOBILIZED FROM FORT MISSOULA TO WORK AT YELLOWSTONE AND GLACIER NATIONAL PARKS.

THE PROPOSED PARK THEMING IS BASED UPON THIS SIGNIFICANT PART OF THE PARKS AND RECREATION MOVEMENT.



OPEN HOUSE MEETING

HERITAGE HALL,
HISTORIC FORT MISSOULA

June 25, 2008



OBJECTIVES

- UPDATE PUBLIC ON FORT MISSOULA REGIONAL PARK PLANNING PROCESS
- SHARE WESTERN CULTURAL, INC. FINDINGS ON CULTURAL RESOURCES AND RECOMMENDATIONS FOR PARK DESIGN
- SHARE DESIGN DEVELOPMENT OF PARK SITE & ANSWER QUESTIONS
- PROVIDE PUBLIC FORUM FOR CITIZENS TO BRAINSTORM IDEAS FOR HISTORICAL INTERPRETATION OF GUARDSMAN LANE (ALSO KNOWN AS THE CCC ROAD).

ROUNDTABLE DISCUSSION

- PUBLIC GENERALLY SUPPORTED PLANS AND THEMING IDEAS
- THE CCC THEMING IS CONSISTANT WITH HISTORY OF SITE
- PROVIDE TRAFFIC CALMING, MARK CROSS WALKS, DIVIDE LANES WITH MEDIANS, DISCOURAGE CUT THRU TRAFFIC, IMPROVE PEDESTRIAN ACCESS BETWEEN NEIGHBORHOODS AND PARK
- RECOMMEND NAMING THE "CCC ROAD" FOR VEHICULAR ROAD & "GUARDMAN LANE" FOR TRAIL WITH DOUBLE ROW OF TREES.
- KEEP TRAILS CLOSER TO ROADS TO MAXIMIZE OPEN SPACE OF PARK

PROPOSED PARK DESIGN



SUSTAINABLE APPROACH TO DESIGN

PROVIDE PEDESTRIAN CONNECTIVITY TO REGIONAL TRAILS,
NEIGHBORHOODS AND NEARBY ACTIVITY AREAS. MAKE PARK WALKABLE.

PROVIDE CONNECTIONS TO PUBLIC TRANSPORTATION (MOUNTAIN LINE STOP)

LIMIT BLUEGRASS TO SPORTS FIELDS, USE NATIVE GRASSES IN PASSIVE AREAS,
SYNTHETIC TURF WHERE APPROPRIATE

USE NATIVE OR XERIC TREES AND SHRUBS

PROVIDE SOPHISTICATED IRRIGATION SYSTEM , CONTROLLER AND WEATHER STATION

RECHARGING GROUND WATER WITH VEGETATED SWALES

UTILIZE RECYCLED MATERIALS (ROAD BASE, SITE FURNITURE, ETC.)

PRESERVE HISTORIC VIEWS

RESPECT HISTORIC COMPATIBILITY

PRESERVE CULTURAL ASSETS OF SITE





MAINTAIN HISTORIC LANDSCAPE (OPEN VIEWS)
CLUSTER STRUCTURES

STAY CLEAR OF "TRASH SCATTER", NON DISCLOSURE OF SITE (MAINTAIN 30 CM HORIZON)

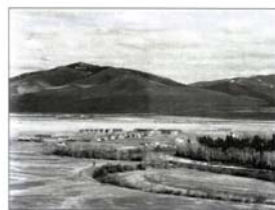


Figure 18. View of Fort Missoula, 1931, elements of the open view shed still visible (94.2373, R.H. McKay Collection, Archives and Special Collections, The University of Montana).





PROPOSED ENTRY OFF 33TH AVENUE

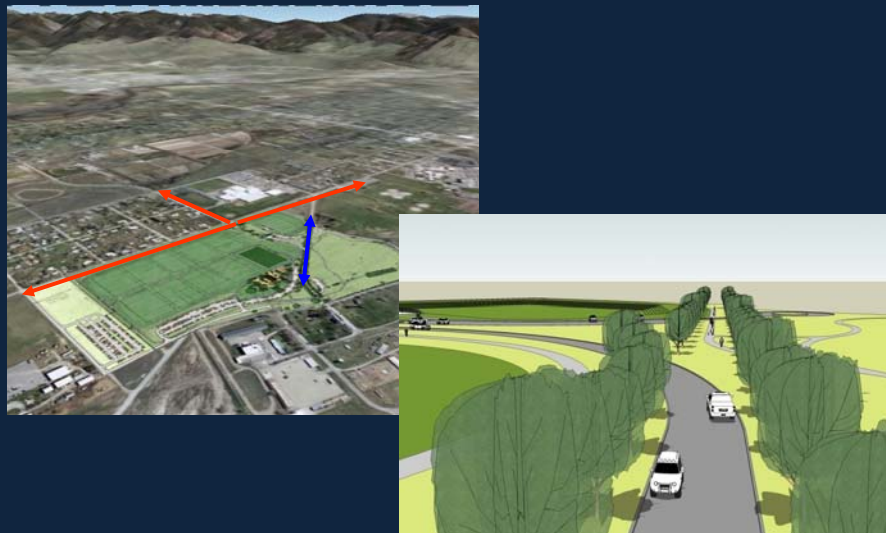




Central Community and Regional Events Area

VEHICULAR ACCESS/ INTERSECTION IMPROVEMENTS/CIRCULATION







PARK CHARACTER





16



"IRON MIKE"

THE FIRST STATUE EVER PRODUCED IN HONOR OF THE CCC WAS TITLED "SPIRIT OF THE CCC" OR "IRON MIKE" ORIGINALLY DEDICATED IN 1935 BY FDR

Entry Sculpture

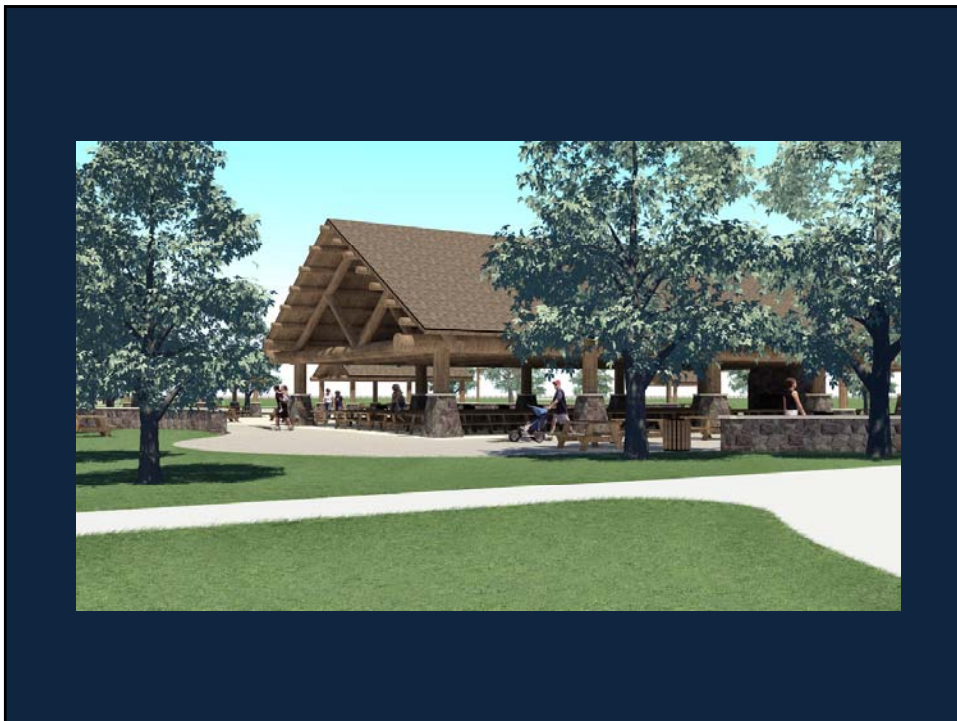
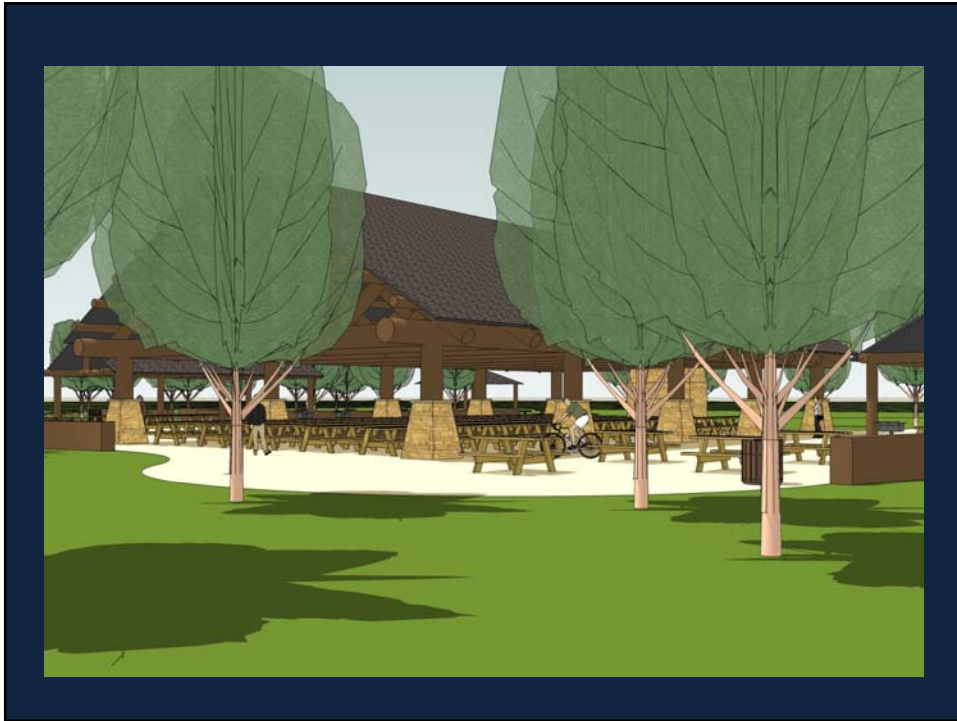


Central Community and Regional Events Area
Large all school reunions, festivals, concerts, museum, arts and cultural events,
schools, family and corporate picnics



Pavilions







Restrooms/ Concession





WE'RE STUDYING FIELD CONSTRUCTION TYPES : TOPSOIL BASED FIELDS VS. SAND BASED FIELDS.

PRO'S

- 1.FIELD CAN BE BUILT COMPLETELY FLAT, BEST PLAYING FOR SOCCER WITH REDUCED INJURIES (PRO FIELDS ARE FLAT).
- 2.SAND IS LESS EXPENSIVE AND MORE READILY AVAILABLE THAN TOPSOIL.
- 3.SAND BASED FIELDS ARE PLAYABLE IN LESS TIME FOLLOWING RAINFALL. THERE IS LESS DETERIORATION . THIS IS VERY IMPORTANT WITH LARGE TOURNAMENTS.
- 4.FLAT FIELDS ARE EASIER TO BUILD AT ONE ELEVATION. LOW POINTS ARE EASIER TO AVOID.
- 5.GOALS CAN BE ROTATED IN ANY POSITION REDUCING WEAR PATTERNS.

CON'S

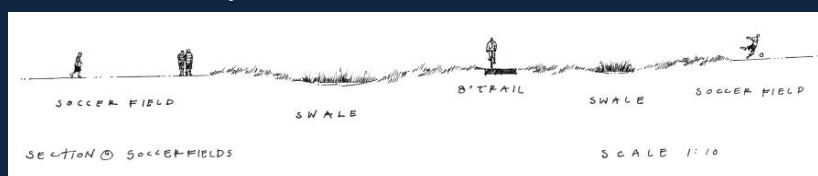
1. FIELDS WILL REQUIRE APPROX. 10% MORE WATER AND FERTILIZER THAN TOPSOIL BASED FIELDS, BUT THIS CAN BE MITIGATED BY USING FERTIGATION (DIRECT APPLICATION TO LAWN WITH MINIMAL LEACHING INTO SOIL)

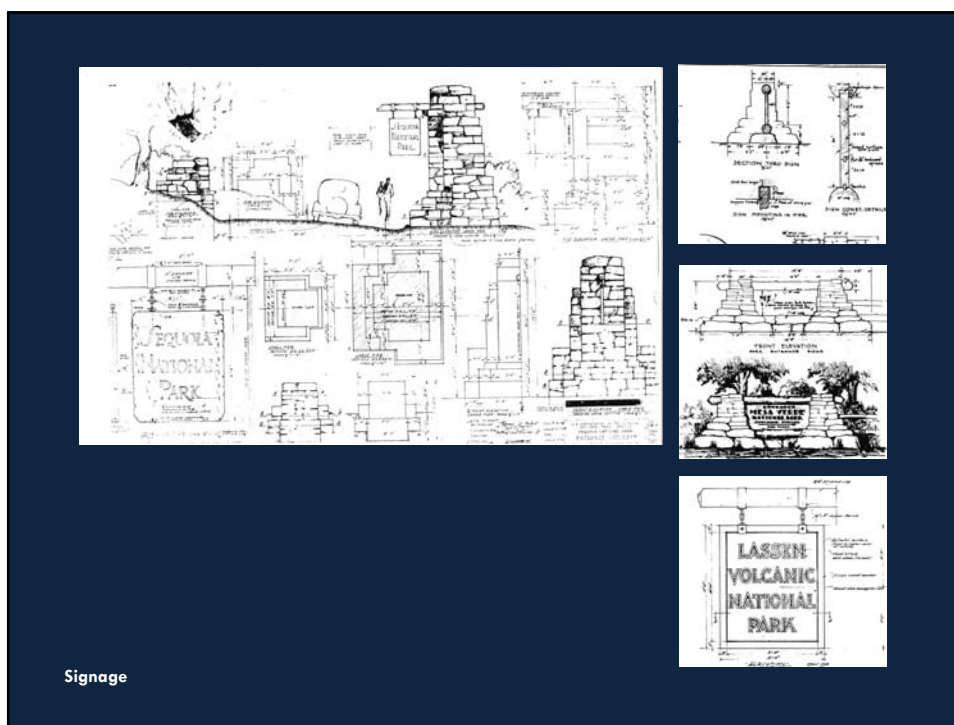
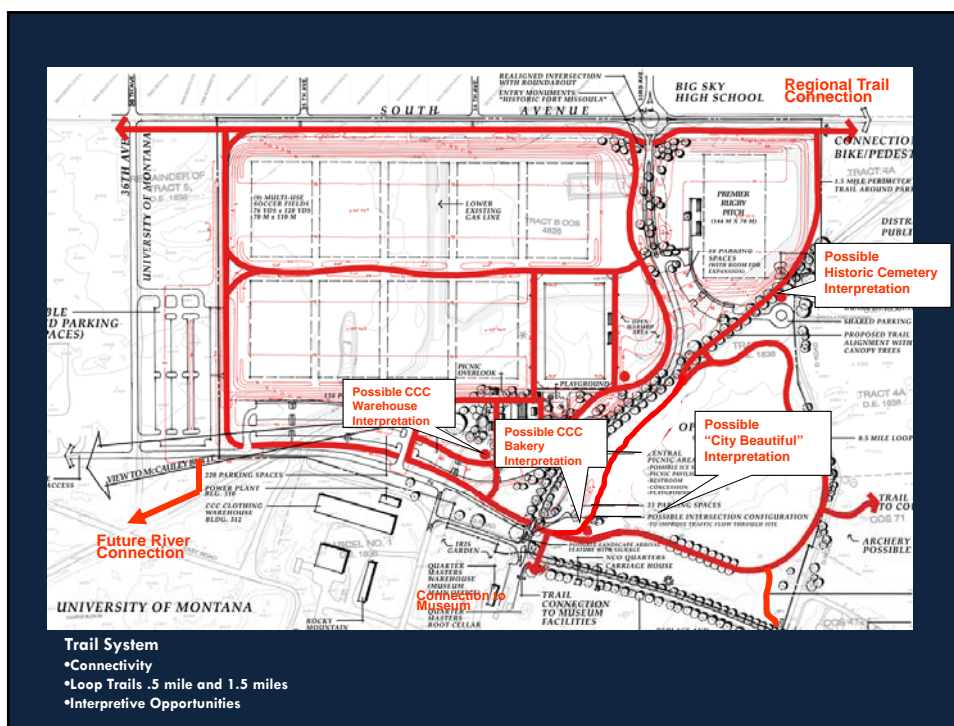


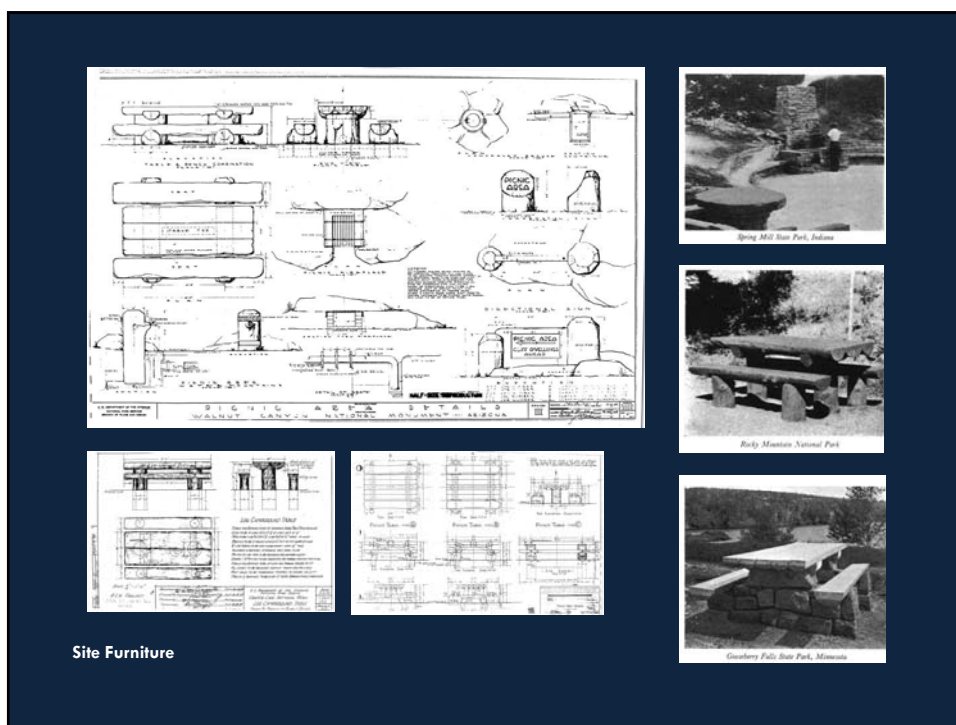
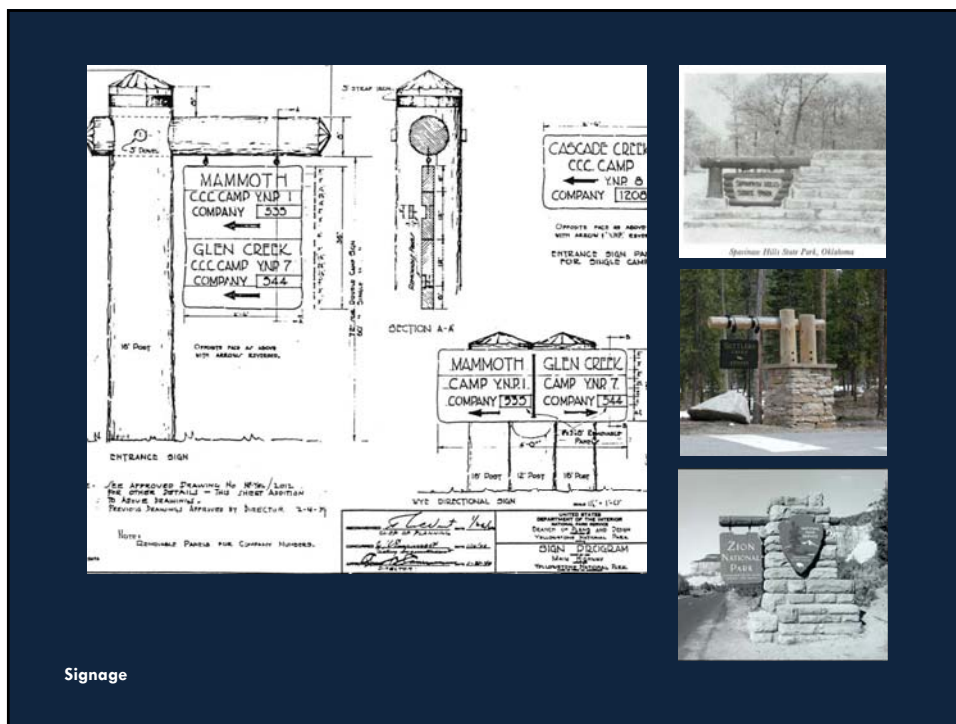
Extended Playing Season



Use vegetated swales to transport and filter storm water. Use dry well sumps to dispose of excess water that cannot infiltrate the grass









THE STATE HISTORICAL PRESERVATION BOARD HAS APPROVED THE MITIGATION PLANS FOR FORT MISSOULA REGIONAL PARK. THESE PLANS INCLUDE:

- 1) THE INTERPRETATION OF GUARDSMAN LANE THROUGH A COMBINATION OF ROAD AND TRAIL DESIGN AND LAYOUT, SIGNAGE, AND TREE LINED ROAD SIMILAR TO OLD FORT ROAD.



THE STATE HISTORICAL PRESERVATION BOARD HAS APPROVED THE MITIGATION PLANS FOR FORT MISSOULA REGIONAL PARK. THESE PLANS INCLUDE:

- 1) THE INTERPRETATION OF GUARDSMAN LANE THROUGH A COMBINATION OF ROAD AND TRAIL DESIGN AND LAYOUT, SIGNAGE, AND TREE LINED ROAD SIMILAR TO OLD FORT ROAD.
- 2) NAMING THE NEW ENTRY OFF SOUTH AVENUE INTO THE PARK "CCC ROAD" AND THE NEW TRAIL "GUARDSMAN LANE TRAIL"



THE STATE HISTORICAL PRESERVATION BOARD HAS APPROVED THE MITIGATION PLANS FOR FORT MISSOULA REGIONAL PARK. THESE PLANS INCLUDE:

- 1) THE INTERPRETATION OF GUARDSMAN LANE THROUGH A COMBINATION OF ROAD AND TRAIL DESIGN AND LAYOUT, SIGNAGE, AND TREE LINED ROAD SIMILAR TO OLD FORT ROAD.
- 2) NAMING THE NEW ENTRY OFF SOUTH AVENUE INTO THE PARK "CCC ROAD" AND THE NEW TRAIL "GUARDSMAN LANE TRAIL"
- 3) STRONG PRESENCE AND USE OF LANDSCAPE AND ARCHITECTURE TO INTERPRET THE CCC ERA AND CITY BEAUTIFUL WITH EMPHASIS ON THE CCC THEMING.



Riverside State Park, Washington

THE STATE HISTORICAL PRESERVATION BOARD HAS APPROVED THE MITIGATION PLANS FOR FORT MISSOULA REGIONAL PARK. THESE PLANS INCLUDE:

- 1) THE INTERPRETATION OF GUARDSMAN LANE THROUGH A COMBINATION OF ROAD AND TRAIL DESIGN AND LAYOUT, SIGNAGE, AND TREE LINED ROAD SIMILAR TO OLD FORT ROAD.
- 2) NAMING THE NEW ENTRY OFF SOUTH AVENUE INTO THE PARK "CCC ROAD" AND THE NEW TRAIL "GUARDSMAN LANE TRAIL"
- 3) STRONG PRESENCE AND USE OF LANDSCAPE AND ARCHITECTURE TO INTERPRET THE CCC ERA AND CITY BEAUTIFUL WITH EMPHASIS ON THE CCC THEMING.
- 4) INTERPRETATION OF THE BAKERY, WAREHOUSE AND HISTORIC LANDSCAPE, AS WELL AS PARK ENTRY SIGNAGE

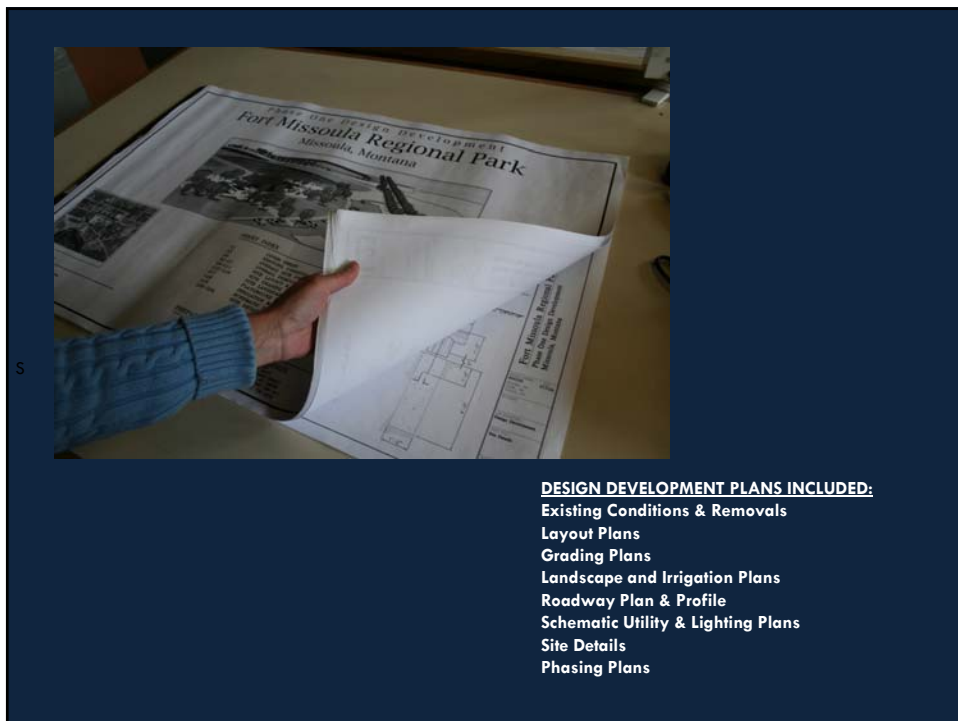
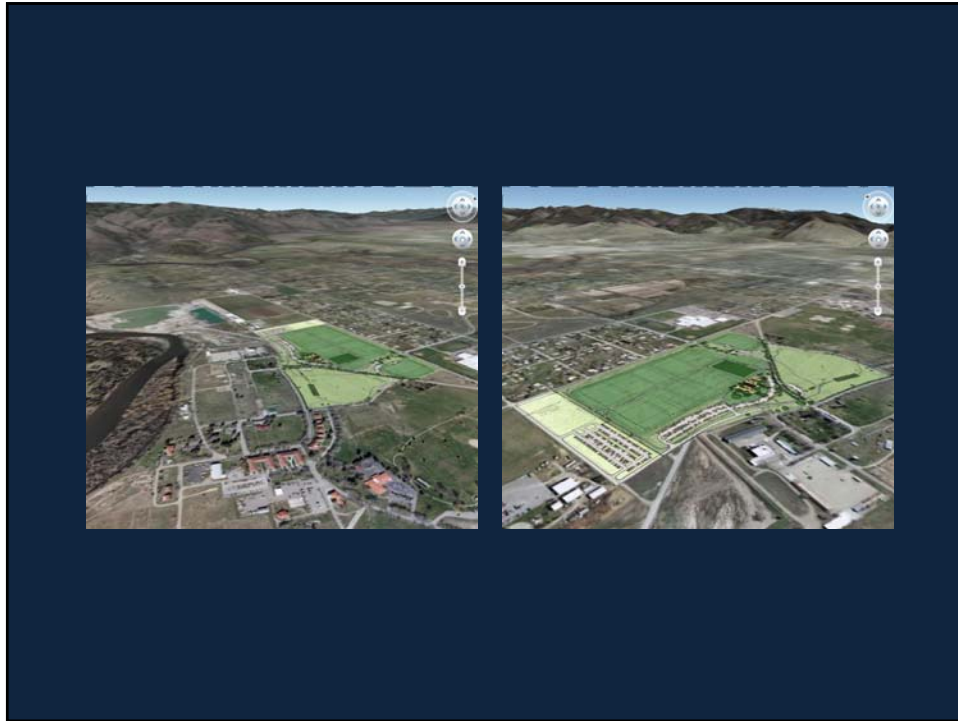


THE MITIGATION PLANS FOR FORT MISSOULA REGIONAL PARK WERE APPROVED BASED UPON THE COMMITMENT AND ATTENTION TO DETAIL OF THE CCC ERA.

THE CITY HAS NOW COMPLIED WITH ALL THE REQUIREMENTS OF THE FEDERAL 106 ANTIQUITIES ACT AND THE MONTANA HISTORIC AND CULTURAL PRESERVATION ACTS. THE SHPO (STATE HISTORIC PRESERVATION OFFICER) HAS PROVIDED A LETTER OF CONCURRENCE.



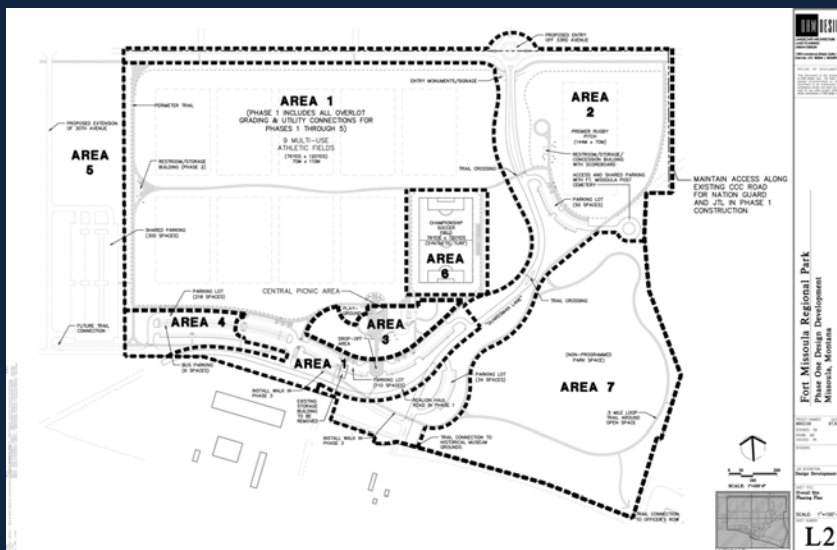




DESIGN DEVELOPMENT PLANS INCLUDED:

- Existing Conditions & Removals
- Layout Plans
- Grading Plans
- Landscape and Irrigation Plans
- Roadway Plan & Profile
- Schematic Utility & Lighting Plans
- Site Details
- Phasing Plans

PHASING/ COSTS



PHASING PLAN BASED UPON INFRASTRUCTURE, UTILITIES, OVERLOT GRADING, AND PRIORITY OF FACILITIES
SITE DIVIDED INTO 7 AREAS

PHASE ONE IMPROVEMENTS \$5,259,030
Escalation to mid 2010 - \$6,047,884



PHASE 1- OVERLOT GRADING, UTILITIES, PARKING AND AREA ONE MULTI-USE SPORTS FIELDS. THIS PHASE INCLUDES THE INFRASTRUCTURE FOR THE PARK & NEEDS TO BE COMPLETED IN ITS ENTIRETY

Area 2 Improvements - \$3,495,297
Escalation to mid 2010 - \$4,019,592



AREA 2- Entry Road, Parking, Premier Rugby Pitch

Area 3 Improvements - \$3,123,001
Escalation to mid 2010 - \$3,591,452



AREA 3 – Community and Regional Events Area

Area 4 Improvements - \$439,925
Escalation to mid 2010 - \$505,914



AREA 4 – Parking Lot Expansion

Area 5 Improvements - \$554,851
Escalation to mid 2010 - \$638,079



AREA 5 – Proposed Future Shared Parking & 36th Avenue Extension

Area 6 Improvements - \$2,443,937
Escalation to mid 2010 - \$2,810,528



AREA 6 – Championship Soccer Field

<u>PHASE ONE IMPROVEMENTS</u> \$5,259,030	
	Escalation to mid 2010
	\$6,047,884
 <u>FUTURE PHASES</u>	
Area 1 Improvements	
	\$977,361
	Escalation to mid 2010
	\$1,123,965
 Area 2 Improvements	
	\$3,495,297
	Escalation to mid 2010
	\$4,019,592
 Area 3 Improvements	
	\$3,123,001
	Escalation to mid 2010
	\$3,591,452
 Area 4 Improvements	
	\$439,925
	Escalation to mid 2010
	\$505,914
 Area 5 Improvements	
	\$554,851
	Escalation to mid 2010
	\$638,079
 Area 6 Improvements	
	\$2,443,937
	Escalation to mid 2010
	\$2,810,528
 Area 7 Improvements	
	\$1,225,110
	Escalation to mid 2010
	\$1,443,376
 <u>Overall Project Total</u>	
	\$17,548,515
	Escalation to mid 2010
	\$20,180,792

THANK YOU