A Master Plan for the Harrisonburg Department of Parks and Recreation.

Prepared for:

# Smithland Road Park Master Plan

## The City of Harrisonburg, Virginia

The City of Harrisonburg, Virginia

Harrisonburg Department of Parks and Recreation

Prepared by: LPDA, Land Planning & Design Associates Inc.

Land Planning and Landscape Architecture

310 East Main Street, Suite 200 Charlottesville, Virginia 22902

## Smithland Road Park Master Plan

#### **Table Of Contents**

Acknowledgements	i
Introduction	1
Smithland Road Site	1
Materials	
Landscape	2
Structural	3
Athletic Fields	3
Earthwork & Storm water Management	
Earthwork	4
Earthwork Summary	5
Grading	5
Storm water Management	6
Phase I	7
Phase II	7
Phase III	8
Phase IV	9
Phase V	10
Phase VI	11
Appendix 1: Cost Estimates	
Appendix 2: Utility Plans	
Appendix 3: Master Plan Sheets	
Appendix 4: Irrigation Plan Sheets	

#### **Acknowlegements**

#### **Department of Parks and Recreation**

Lee Foerster Director of Parks and Recreation

David Wigginton Assistant Director of Parks and Recreation

# **Department of Planning and Community Development**

Stacy Turner
Director of Community Development

Dan RubleeCity Engineer

Sam Hottinger GIS Coordinator

Paul Schacht Civil Engineer

i

## Smithland Road Park Master Plan

#### Introduction



Smithland Road Park overall master plan.

The Smithland Road Property in Harrisonburg, Virginia has been chosen to be the site of a new community park and athletic complex. The site is located in the northeast portion of Harrisonburg, along the City of Harrisonburg and Rockingham County line.

Much of the background information and initial public input for this project was developed during the City of Harrisonburg's Parks and Recreation Master Plan. The plan was completed in 2003 and included planning and input regarding the development of the Smithland Road Property. The process to decide what functions the park would hold and what program elements would be incorporated included much community involvement. This was accomplished through public meetings and mailed questionnaires.

The results of the questionnaires and public meetings found that there was a demand for a recreation complex that would serve as a community park and neighborhood park. Various facilities were requested by citizens as well as park staff. These included:

- More soccer fields.
- Rest room facilities with running water.
- More youth baseball/softball fields.
- Practice fields.
- Development of a city park with picnic pavilions, tennis courts, playgrounds, etc.
- Satellite maintenance operations center.
- Disc golf course.

All of these facilities and activities were taken into consideration for the planning of the park.

#### **Smithland Road Site**

The Smithland Road site contains a mixture of agricultural land, existing recreational fields, a parking lot, wooded areas, and fallow

grassland. A railroad line bisects the site from northeast to southeast. The largest areas of forest on the site are found on the east side of the railroad tracks at the northern and southern extremes of the property. The western area of forest is an early successional forest not likely exceeding 40 years in age. The eastern forest area is a triangular area surrounded by agricultural fields on all sides. A stream and potential fringe wetlands bisect this area. This forest area is midsuccessional and contains mature hardwoods providing good habitat value. An additional small wetland area is mapped on the property according to the USFWS National Wetlands Inventory. Several sinkholes were observed on the property, primarily to the east of the Sinkholes are common features in Karst terrain railroad line. (landscape with topographic depressions such as sinkholes and caves, caused by underground solution of limestone bedrock) and provide a mechanism for surface water and pollutants to directly enter the groundwater system.

#### **Materials**

#### Landscape

In order to provide a sustainable and attractive landscape, a palette of cultured and native plant material is suggested. A variety of plants, such as large shade trees, flowering ornamental trees, evergreen trees, shrubs, perennials and groundcovers, should be used to provide a functional landscape with visual appeal and seasonal interest.

Plant material may include, but are not limited to:

#### **Trees:**

Red Maples Zelkova Honeylocust Male Ginkgos River Birch Chinese Elm

Various Oak

**Flowering Trees:** 

Serviceberry Redbud Magnolia Dogwoods

**Evergreen Trees:** 

Spruce Black Pine

Red Cedar

**Large Shrubs:** 

Chokeberry Wax Myrtle Forsythia Hollies

Viburnums

**Small Shrubs:** 

Azaleas Junipers

Hollies

Nandina

**Groundcover:** 

Euonymus Cotoneaster Junipers Liriope

#### Structural materials

Structures to be built on site can be constructed from several kinds of materials such as wood, concrete block, or steel. Another option is to use premanufactured facilities, which are available in almost any size and configuration. If built on site elements, such as restrooms and concession buildings, should be constructed with concrete block walls and wooden trusses with asphalt shingle roof. The concrete block walls can either be painted or faced with stucco or wood siding. This will provide a structure that will withstand time and elements, and will be economical and simple to build.

Picnic shelters should have a poured concrete slab and be built with a wooden frame and gable roof with asphalt shingles. Small picnic shelters should be 12'x12'. Larger picnic shelters should be 20'x34'. Final sizes should be determined by the Parks and Recreation Department based on actual programs and uses.

#### Athletic Fields

Due to the existing native clay soils, which are generally unsuitable when saturated, all athletic fields will need a suitable soil mix surface. Athletic fields such as soccer fields, football fields, baseball fields, and softball fields will need to be seeded, sodded, or sprigged. Turf grass options include Fescue, cold tolerant Bermuda grasses, and Blue grass. The use of Blue grass has been very successful in the Harrisonburg area.

Irrigation is planned to maintain the soccer fields, baseball and softball fields. Irrigation heads will probably require at least 60 psi at the base of the head for proper operation. In order to insure this, an irrigation water source (well or water line) should provide at least 85-95 psi at the well head. This requirement will vary based on elevation change and the size of zones. Booster pumps may be required depending on available pressures. 50-100 gpm will be required as a minimum water volume. Given this scenario and the

current number of fields, it would potentially take 8 to 16 hours to irrigate the fields shown on the master plan.

Basketball courts and other hard-court facilities should be constructed with an asphalt base with a resilient rubber playing surface on top. Tot lot and play surfaces should be either a poured in place resilient rubber surface or a wood fiber mulch surface. Playground equipment and surfaces should meet all current American Disabilities Act and Consumer Product Safety Commission standards.

#### **Earthwork & Storm Water Management**

#### **Earthwork**

Due to the topography, the Smithland Road Site offers challenging grading scenarios. Site elevations vary greatly and the land is characterized by Karst topography. This makes planning large facilities such as soccer fields and baseball fields difficult. This is due to their large size and the fact that they must be level (1.5-2% slope), and should be located on generally stable soils.

In order to make this plan as feasible as possible, construction phases were identified. Each phase can be constructed independently of the others and includes a grading area that balances cut to fill. The site has been divided into six phases, which will be described in further detail later in this report.

The soils on the site are predominantly native clay soils. These soils are known to over compact after excavation. This means when soils are cut from one area and placed in another and compacted, the new volume will be less than the volume that has been cut. In order to calculate this factor into the grading of the phases, an allowance of 20% of additional cut has been designed for. This number allows for compaction and accounts for some material that may be unsuitable for construction. It also means that there is a possibility for excess material to remain if soils compact less or less unsuitable soils are encountered

Rock and unsuitable sub-surface conditions were also considered during the planning of the park. The fact that the site has a great deal of elevation change and variation gives clues that there is most likely rock near the surface. One way of telling what the depths to bedrock are is to take soil borings. The borings give soil profiles which can be analyzed. The analysis does not typically represent the entire construction area and variations can be expected. However, the analysis does give designers a good idea of cost contingencies that need to be planned for. Finding shallow bedrock on site is expected and has been accounted for in the estimate. A 25% allowance for excavation of rock has been added. It is assumed that the rock that is excavated will be rippable and can be used as core fill material. Core fill material may include material such as rock and uncontaminated soil, which can be used as sub base where large volumes of fill are needed.

The Karst topography had to be considered during planning since existing sinkholes could further collapse and expand. Every effort possible was taken not to place any fields, roads, parking lots, and structures over sinkholes. In the event that a sinkhole must be graded, several steps must be taken for stabilization. The sinkhole must be lined with stabilizing geotextile fabric and filled with a combination of large rip rap fill and other smaller gravels and then capped with soil. No pavement areas should drain to sinkholes. All pavement runoff must be directed to appropriate storm water facilities. These facilities should treat both storm water quantity as well as quality.

#### Earthworks Summary by Phase

#### Phase I

Cut Volume: 1727 C.Y. Fill Volume: 430 C.Y.

Net: 1297 C.Y. Fill

#### Phase II

Cut Volume: 97156 C.Y. Fill Volume: 51467 C.Y. Net: 45689 C.Y. Cut (lost through compaction)

#### **Phase III**

Cut Volume: 50171 C.Y. Fill Volume: 49559 C.Y.

Net: 612 C.Y. Cut (lost through compaction)

#### Phase IV

Cut Volume: 9847 C.Y. Fill Volume: 6149C.Y. Net: 3698 C.Y. Cut (lost through compaction)

#### Phase V

Cut Volume: 299 C.Y. Fill Volume: 282 C.Y. Net: 17 C.Y. Cut (lost through compaction)

#### Phase VI

Cut Volume: 32767 C.Y. Fill Volume: 28587 C.Y. Net: 4180 C.Y. Cut (lost through compaction)

#### **Grading**

The athletic fields must be graded to properly drain water. If they are not graded properly, water will saturate the playing surface and make it unusable until it dries. The pitch of the fields can vary depending on what material is used as topsoil. If native soils are used the fields must be pitched at 2% to properly drain. If a specialized athletic mix and drain system is used the slope can be lessened to 1-1.5%. A drainage system will be required if sub-soils do not drain or if the cross slope is less than 2%. For baseball fields, the ideal way to drain water is to create a highpoint in the infield and drain towards the outfield. This prevents water from running across the infield, which could cause erosion damage and saturation. Soccer fields ideally should drain from the middle to the sides. Another option, which was explored in the grading plan, is to have one continuous pitch that sheds water across the entire field. This option tends to be easier when constructing fields on sloping ground and simplifies perimeter drainage.

#### Storm Water Management

Storm water management is an important aspect that was considered during planning. Due to the site's Karst topography and sinkholes, precautions were made to prevent runoff from entering the sinkholes and contaminating the groundwater. Both water quantity and water quality is considered when managing storm water.

Storm water quality is controlled by filtering the runoff through level grass swales, spreader swales, and bio-filtration pond systems. These methods remove pollutants from runoff before they can enter and contaminate the groundwater system. A combination of soils and vegetation is often used to remove pollutants.

Storm water quantity is handled by grass swales and detention ponds. Grass swales slow the movement of runoff on its way to its destination while detention ponds store and slow down the excess runoff preventing flooding and erosion damage.

#### Phase I



Phase I: maintenance facility upgrade, trails & picnic shelter.

Phase I of the Smithland Road Master Plan consists of completing the three soccer fields, parking, and upgrading the maintenance facilities. The extent of Phase I runs from Smithland Road to the edge of the eastern most existing soccer field.

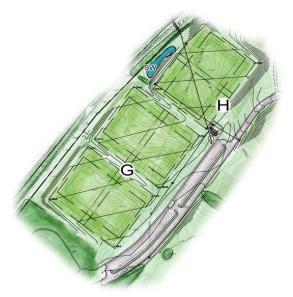
Utilities will need to be provided in this Phase. The concessions and restrooms will require electric, water, and a sanitary sewer utilities.

The existing maintenance facilities will be expanded by approximately 1800 S.F. to serve seven soccer fields and four baseball fields. The expanded facility will include storage for mowers, aerators, and other equipment. The building will also house offices, restrooms, and a break room.

#### Phase I Program Elements

- (2) 20'x34' picnic shelters.
- 3,500 L.F. of walking/jogging trails.
- 1800 S.F. expanded maintenance facilities
- Improved parking.
- Bicycle lanes on roads and bike accessible trail routes.

#### Phase II



Phase II: Proposed Athletic fields & parking.

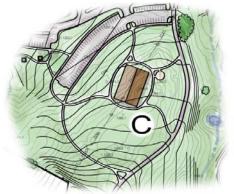
Phase II, which is located on the southern side of the rail line, consists of three 360'x450'graded pads that will accommodate multiple field orientations and types. Each pad is capable of accommodating two 180'x300' soccer playing fields simultaneously or one 360'x180' football field. In order for the Phase to balance, all three soccer fields must be constructed together. If they were constructed individually, they would not be at the same elevations. There would be a fill slope from the two western soccer field elevations to the easternmost soccer field making the two less accessible to each other.

Water, electric, and sanitary utilities will be required for the concession/restroom facility. A gravity sanitary line will be run from the concession/restroom facility and tied in with existing sanitary at Smithland Road. One existing overhead utility pole will need to be relocated so that they do not interfere with playing fields.

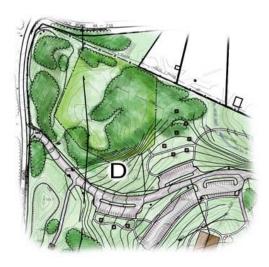
#### Phase II Program Elements

- (3) Soccer/ football pads (360'x450').
- (1) Tot lot.
- (1) Concession/ restroom facility.
- walking/jogging trails.
- Parking (195 spaces).

#### Phase III



Phase III: Multiuse Pavilion with tot lot, trails & parking.



Phase III: park entrance road with parking. The dog park is shown with nearby picnic areas.

Phase III of the Smithland Road Master Plan consists of recreational facilities and a 9,600 S.F. multiuse pavilion. The extent of Phase III runs from the existing soccer fields to the drainage divide on the western side of the train line. Significant excavation is required in this Phase due to the topography change. Where the cutting of the hillside takes place, a "bowl" will be formed around the multiuse pavilion, where people can sit and watch events. The material that was cut from the hillside will be used for fill material for the road, parking and picnic areas. Overflow parking is provided in a grass parking lot, which is accessible by using a portion of the trail system. This is designed to accommodate occasional vehicular traffic. Bollards will be placed at the access points on the trail to restrict traffic.

Utilities will need to be provided in this Phase. The multi-use pavilion, which consists of an event stage, seating, storage and restrooms, will require electric, water, and a sanitary sewer line. An existing pump station will be used for a connection point to sanitary sewage.

A dog park is planned in this Phase. This includes land that is enclosed by an 8' high fence, where visitors can take their pets to play freely. A tap with running water will be provided to wash pets' paws. Other amenities such as a drinking fountain and benches will be provided.

The possibility of an additional soccer field located where the overflow parking is planned was explored. The soccer field could be built without drastically changing other elements but would require additional fill material and eliminate the overflow parking

#### Phase III Program Elements

- 9,600 S.F. multiuse pavilion with rest rooms, event stage, and seating.
- (10) 12'x12' picnic shelters.
- 4,190 L.F. of walking/jogging trails.
- (1) Tot lot 750 S.F.
- 125 parking spaces.
- Overflow parking (approx. 100 spaces).
- Dog park.
- Bicycle lanes on roads and bike accessible trail routes.

#### Phase IV



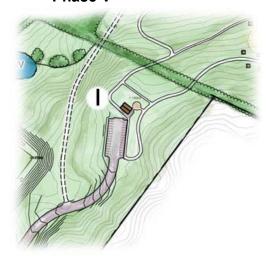
Phase IV: Hard court activity area with basketball courts, tot lot, sand volleyball and horse shoe pits. This area also includes trails, picnic areas, and rest room facilities.

Phase IV is located adjacent to Phase I on the opposite side of the drainage divide. This Phase consists primarily of recreational facilities and hard-court facilities. A potential access road would connect to the Phase VI baseball complex and would improve accessibility and circulation. Electric, water, and sanitary utilities will be required for the concession/restroom facility. One existing utility pole will need to be relocated.

#### Phase IV Program Elements

- (2) Basketball courts.
- (2) Sand volleyball courts.
- (4) Horse shoe pits.
- (1) Tot lot.
- (7) Small picnic shelters.
- Parking (72 spaces).
- (1) Concession/ rest room facility.
- (1) Picnic shelter (20'x34').

#### Phase V



Phase V: Trail head with nearby picnic shelter and tot lot.



Phase V: Walking/jogging trails wind through open land, wildflower meadows and wooded areas.

Phase V is adjacent to Phase II and consists of a trail head, walking/jogging trails, interpretive signage, picnic shelters and a tot lot. This Phase requires the least amount of earthwork of all the phases. Minor grading will be required for the trails and picnic sites. Electric will be required for the picnic shelter facility.

Interpretive signage will describe the wetlands and other geographical features. Trails will guide users through wildflower meadows, natural wooded areas, wetlands, and garden areas.

#### Phase V Program Elements

- (1) Picnic shelter (20'x34').
- Interpretive signage.
- (1) Tot lot.
- (10) 12'x12' picnic shelters.
- walking/ jogging trails.
- Parking (30 spaces).
- (1) Pedestrian Bridge.
- Maintenance access to baseball complex.

#### Phase VI



Phase VI: Baseball complex with related parking, and picnic, and concession facilities.

Phase VI functions primarily as a baseball complex, consisting of two baseball fields and one little league or softball field. Several sinkholes are located on this piece of land which limits the locations of the fields, structures and parking. Storm water will be handled with grass swales, and a bio-retention pond will be placed near the parking lot to eliminate contaminants before they can enter the groundwater system.

Water and electric utilities will be required for the concession/rest room facility. One existing overhead utility pole will need to be relocated. A septic drain field will be required for the sanitary treatment. A gravity system will not work on this Phase. In order to tie into City lines, a lift station would be needed.

#### Phase VI program elements

- (2) Baseball fields (300' foul line).
- (1) Little league/ softball field (275' foul line).
- (1) picnic shelter (20'x34').
- (1) Concession/ rest room facility.
- Parking (80 spaces).

#### Appendix 1

#### Cost Estimates For Smithland Road Park

Included are the cost estimates organized by each phase of the Master Plan and Utility Plan. Each phase estimate is broken down into the major elements required to complete the phase. The cost estimates are general in nature, although ranges of costs are based on actual construction estimates and pricing from similar projects. The cost estimates are intended to provide a general magnitude of cost and assist in the decision-making process for selecting specific priorities or phases. Detailed cost estimates will need to be prepared for each portion of Smithland Road Park as more detailed planning and design is completed.

Several assumptions were made in the cost estimates that have a direct bearing on cost and should be examined in more detail as each Phase is developed.

### Smithland Road Park Overall

Harrisonburg, Va		_
Construction Cost Estimate	7/29	9/2004
Prepared By: Land Planning and Design Associates Inc. Charlottesville, VA		
	•	
Phase 1 Total	\$	583,983.75
Phase 2 Total	\$	1,577,783.50
Tituo E Total	Ψ	1,077,700.00
Phase 3 Total	\$	1,026,203.00
Phase 4 Total	\$	399,199.50
	•	000 450 50
Phase 5 Total	\$	290,452.50
Phase 6 Total	\$	881,507.50
Irrigation	\$	150,000.00
Utilities	\$	425,025.00
Othities	Ψ	425,025.00
Project Subtotal	\$	5,334,154.75
Contingency	(25%) \$	1,333,538.69
TOTAL:	\$	6,667,693.44

Smithland Road Park Phase 1 Harrisonburg, Va Construction Cost Estimate

7/29/2004

Prepared By: Land Planning and Design Associates Inc. Charlottesville, VA

1	Site Preparation	QTY.	UNIT	UNIT PRICE	TOTAL	
	Site Clearing & Grubbing	5	AC	\$1,500.00	\$	7,500.00
	Cut to Fill	1,050	CY	\$8.00	\$	8,400.00
	Topsoil Stripping & Stockpiling	300	CY	\$6.00	\$	1,800.00
	Ripping (25% cut to fill)	262.5	CY	\$3.50	\$	918.75
				SUBTOTAL	\$	18,618.75
2	Hardscape	QTY.	UNIT	UNIT PRICE	TOTAL	
	6' Width Trail Asphalt (783 L.F.)	104	Ton	\$40.00	\$	4,160.00
	Sub-base 6" 21-A	348	Ton	\$15.00	\$	5,220.00
	10' Width Trail Asphalt (2721 L.F.)	604	Ton	\$40.00	\$	24.160.00
	Sub-base 6" 21-A	1007	Ton	\$15.00	\$	15,105.00
	Cub base o Z177	1007	1011	ψ10.00	Ψ	10,100.00
	12' Width Trail Asphalt (0 L.F.)	0	Ton	\$40.00	\$	-
	Sub-base 6" 21-A	0	Ton	\$15.00	\$	-
	Constate Payament (1034 C.E.)	25	CY	\$00.00	•	2 250 00
	Concrete Pavement (1034 S.F.) Sub-base 6" 21-A	25 38	Ton	\$90.00 \$15.00	\$ \$	2,250.00 570.00
	Sub-base of 21-A	30	1011	\$15.00	φ	370.00
	Road & Parking Asphalt Pavement (11219 S.F)	249	Ton	\$40.00	\$	9,960.00
	Road & Parking 21-A Sub-base	415	Ton	\$16.00	\$	6,640.00
	New Curbing CG2 (standard)	0	LF	\$12.50	\$	-
	Curb Ramps	0	EA	\$1,200.00	\$	-
	Storm Culverts 18" RCP	0	LF	\$30.00	\$	_
	Storm Culverts 18 RCP	0	LF	\$50.00	\$	-
	Rip Rap EC at Culverts	0	Ton	\$100.00	\$	-
	Trash Receptacle	5	EA	\$300.00	\$	1,500.00
	Benches 6' Length	3	EA	\$600.00 SUBTOTAL	\$ <b>\$</b>	1,800.00 <b>71,365.00</b>
				SUBTUTAL	Ą	11,303.00
3	Landscaping	QTY.	UNIT	UNIT PRICE	TOTAL	
	Large Shade Tree	10	EA	\$350.00	\$	3,500.00
	Ornamental / Flowering Tree	10	EA	\$200.00	\$	2,000.00
	Evergreen Tree	15	EA	\$200.00	\$	3,000.00
	Shrubs-large	75	EA	\$50.00	\$	3,750.00
	Shrubs-med/small	75	EA	\$30.00	\$	2,250.00
	Ground Cover/perennial Annual	1,500 1,500	EA EA	\$4.00 \$2.00	\$ \$	6,000.00 3,000.00
	Bed Preparation	50	CY	\$30.00	\$	1,500.00
	4			SUBTOTAL	\$	25,000.00
4	Athletic Fields	QTY.	UNIT	UNIT PRICE	TOTAL	
	Baseball Field (seeded) (Lump Sum)	0	EA	\$86,000.00	\$	-
	Softball Field (seeded) (Lump Sum)	0	EA	\$70,000.00	\$	-
	Soccer Field Single Pad (seeded) (Lump Sum)	0	EA	\$103,000.00	\$	-
	Soccer Field Large Pad (seeded) (Lump Sum)	0	EA	\$155,000.00	\$	-
	Horse Shoe Pits	0	EA	\$1,000.00	\$	-
	Sand Volleyball Courts	0	EA	\$2,500.00	\$	-
	Basketball Courts	0	EA	\$5,000.00	\$	-
	Press Box/ Concession Structure This does not include irrigation, sprigging or sod	0	EA	\$12,000.00 SUBTOTAL	\$ <b>\$</b>	
	This does not include imgalion, sprigging or sou			SUBTUTAL	Þ	-
5	Recreation Facilities	QTY.	UNIT	UNIT PRICE	TOTAL	
	Multi-Use Pavilion	0	LS	\$80,000.00	\$	-
	Picnic Shelter (Large)	2	EA	\$10,000.00	\$	20,000.00
	Picnic Shelter (Small)	0	EA	\$6,000.00	\$	-
	Restroom/ Concession Building	1	LS	\$40,000.00	\$	40,000.00
	Tot Lot	0	LS	\$15,000.00	\$	-
	Interpretive Signage Picnic Tables	0 12	EA EA	\$1,000.00 \$750.00	\$ \$	9,000.00
	FICHIC Tables	12	EA	SUBTOTAL	\$	69,000.00
6	Other Facilities	QTY.	UNIT	UNIT PRICE	TOTAL	
	Expanded Maintenance Facility (30'x60')	1	LS	\$400,000.00	\$	400,000.00
	Dog Park	0	LS	\$85,000.00	\$	-
	Vehicular Bridge 60' Length	0	EA	\$10,000.00	\$	-
	Relocate Utility Poles	0	EA	\$5,000.00	\$	-
				SUBTOTAL	\$	400,000.00

SUBTOTAL \$ 400,000.00

583,983.75

PHASE 1 TOTAL \$

7/29/2004

Prepared By: Land Planning and Design Associates Inc. Charlottesville, VA

1	Site Preparation	QTY.	UNIT	UNIT PRICE	TOTA	\L
	Site Clearing & Grubbing	21	AC	\$1,500.00	\$	31,500.00
	Cut to Fill	64,000	CY	\$8.00	\$	512,000.00
	Topsoil Stripping & Stockpiling	17600	CY	\$6.00	\$	105,600.00
	Ripping (25% cut to fill)	16000	CY	\$3.50	\$	56,000.00
				SUBTOTAL	\$	705,100.00
2	Hardscape	QTY.	UNIT	UNIT PRICE	TOTA	
	6' Width Trail Asphalt (2031 L.F.)	270	Ton	\$40.00	\$	10,800.00
	Sub-base 6" 21-A	451	Ton	\$15.00	\$	6,765.00
	10' Width Trail Asphalt (0 L.F.)	0	Ton	\$40.00	\$	
	Sub-base 6" 21-A	0	Ton	\$15.00	\$	_
	045 5450 0 2171	· ·		ψ.σ.σσ	•	
	12' Width Trail Asphalt (0 L.F.)	0	Ton	\$40.00	\$	-
	Sub-base 6" 21-A	0	Ton	\$15.00	\$	-
	Concrete Pavement (6434 S.F.)	158	CY	\$90.00	\$	14,220.00
	Sub-base 6" 21-A	238	Ton	\$15.00	\$	3,570.00
	Road & Parking Asphalt Pavement (140569 S.F.)	3,123	Ton	\$40.00	\$	124,920.00
	Road & Parking 21-A Sub-base	5,206	Ton	\$16.00	\$	83,296.00
		-,		******	•	,
	New Curbing CG2 (standard)	1,877	LF	\$12.50	\$	23,462.50
	Curb Ramps	2	EA	\$1,200.00	\$	2,400.00
		_			_	
	Storm Culverts 18" RCP Storm Culverts 24" RCP	0 0	LF LF	\$30.00	\$ \$	
	Rip Rap EC at Culverts	0	Ton	\$50.00 \$100.00	\$	
	TAP TAP EO AL OUIVOITO	Ü	1011	ψ100.00	Ψ	
	Trash Receptacle	5	EA	\$300.00	\$	1,500.00
	Benches 6' Length	5	EA	\$600.00	\$	3,000.00
				SUBTOTAL	\$	273,933.50
3	Landscaping	QTY.	UNIT	UNIT PRICE	TOTA	NI.
<u> </u>	Large Shade Tree	25	EA	\$350.00	\$	8,750.00
	Ornamental / Flowering Tree	25	EA	\$200.00	\$	5,000.00
	Evergreen Tree	40	EA	\$200.00	\$	8,000.00
	Shrubs-large	100	EA	\$50.00	\$	5,000.00
	Shrubs-med/small	100	EA	\$30.00	\$	3,000.00
	Ground Cover/perennial	3,000	EA	\$4.00	\$	12,000.00
						6,000.00
	Annual	3,000	EA	\$2.00	\$	
		3,000 50	CY	\$30.00	\$	1,500.00
	Annual					
4	Annual Bed Preparation  Athletic Fields	QTY.	CY	\$30.00 SUBTOTAL UNIT PRICE	\$ * TOTA	49,250.00
4	Annual Bed Preparation  Athletic Fields Baseball Field (seeded) (Lump Sum)	QTY. 0	UNIT EA	\$30.00 SUBTOTAL UNIT PRICE \$86,000.00	\$ <b>TOTA</b> \$	49,250.00
4	Annual Bed Preparation  Athletic Fields Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum)	QTY. 0 0	UNIT EA EA	\$30.00 SUBTOTAL UNIT PRICE \$86,000.00 \$70,000.00	\$ <b>TOTA</b> \$ \$	49,250.00 AL - -
4	Annual Bed Preparation  Athletic Fields Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum)	QTY. 0 0 3	UNIT EA EA EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$155,000.00	\$ TOTA \$ \$ \$ \$	49,250.00 AL - -
4	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits	QTY. 0 0 3	UNIT EA EA EA EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$1,000.00	\$ TOTA \$ \$ \$ \$ \$ \$	49,250.00 AL - -
4	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts	QTY. 0 0 3 0	UNIT EA EA EA EA EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$1,000.00 \$2,500.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL - -
4	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts	QTY. 0 0 3 0 0	UNIT EA EA EA EA EA EA	\$30.00 SUBTOTAL  UNIT PRICE \$86,000.00 \$70,000.00 \$155,000.00 \$1,000.00 \$2,500.00 \$5,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL - -
4	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box Concession Structure	QTY. 0 0 3 0	UNIT EA EA EA EA EA	\$30.00 SUBTOTAL  UNIT PRICE \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$5,000.00 \$1,200.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00  AL  -  465,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod	0 0 0 3 0 0 0	UNIT EA EA EA EA EA EA EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$155,000.00  \$2,500.00  \$5,000.00  \$12,000.00  SUBTOTAL	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL - 465,000.00 - - - 465,000.00
5	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UNIT EA EA EA EA EA EA EA UNIT	\$30.00 SUBTOTAL  UNIT PRICE \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$2,500.00 \$12,000.00 SUBTOTAL UNIT PRICE	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL - 465,000.00 - - - 465,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities Multi-Use Pavilion	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UNIT EA EA EA EA EA UNIT LS	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$5,000.00 \$12,000.00 SUBTOTAL  UNIT PRICE  \$80,000.00	\$ \$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00 465,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure  This does not include irrigation, sprigging or sod  Recreation Facilities Multi-Use Pavilion Picnic Shelter (Large)	QTY. 0 0 3 0 0 0 0 0 0 0 1	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$1,000.00  \$2,500.00  \$5,000.00  \$12,000.00  SUBTOTAL  UNIT PRICE  \$80,000.00  \$10,000.00  \$10,000.00  \$10,000.00  \$10,000.00	\$ \$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00 465,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small)	QTY. 0 0 3 0 0 0 0 0 QTY.	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$2,500.00 \$12,000.00 SUBTOTAL  UNIT PRICE  \$80,000.00 \$10,000.00 \$6,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL 465,000.00 - - - - - - - - - - - - -
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building	QTY. 0 0 3 0 0 0 0 QTY. 0 1	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$5,000.00 \$12,000.00  SUBTOTAL  UNIT PRICE  \$80,000.00 \$10,000.00 \$40,000.00 \$40,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00  465,000.00 AL  10,000.00 40,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure  This does not include irrigation, sprigging or sod  Recreation Facilities Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building Tot Lot	QTY. 0 0 3 0 0 0 0 0 0 0 1 1 1	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$155,000.00  \$1,000.00  \$2,500.00  \$5,000.00  SUBTOTAL  UNIT PRICE  \$80,000.00  \$6,000.00  \$40,000.00  \$15,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00  AL  465,000.00  465,000.00  AL  10,000.00  40,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building	QTY. 0 0 3 0 0 0 0 QTY. 0 1	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$5,000.00 \$12,000.00  SUBTOTAL  UNIT PRICE  \$80,000.00 \$10,000.00 \$40,000.00 \$40,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL 465,000.00 AL 10,000.00 15,000.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Socoer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building Tot Lot Interpretive Signage	QTY. 0 0 3 0 0 0 0 0  QTY. 1 1 0 1	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$70,000.00 \$155,000.00 \$2,500.00 \$12,000.00 \$12,000.00 SUBTOTAL  UNIT PRICE  \$80,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00 AL  10,000.00 15,000.00 4,500.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Socoer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building Tot Lot Interpretive Signage	QTY. 0 0 3 0 0 0 0 0  QTY. 1 1 0 1	UNIT EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$1,000.00  \$2,500.00  \$12,000.00  SUBTOTAL  UNIT PRICE  \$80,000.00  \$10,000.00  \$40,000.00  \$40,000.00  \$15,000.00  \$15,000.00  \$15,000.00  \$15,000.00  \$15,000.00  \$10,	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL 465,000.00 AL 10,000.00 15,000.00 69,500.00
-	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Kamall) Restroom/ Concession Building Tot Lot Interpretive Signage Picnic Tables  Other Facilities	QTY. 0 0 3 0 0 0 0 0  QTY. 0 1 1 0 6	UNIT EA EA EA EA EA EA EA EA UNIT UNIT UNIT	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00 \$1,000.00 \$1,000.00 \$5,000.00 \$5,000.00 \$12,000.00  SUBTOTAL  UNIT PRICE  \$80,000.00 \$6,000.00 \$40,000.00 \$11,000.00 \$11,000.00 \$5,000.00 \$10,000.	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00 AL  10,000.00 15,000.00 69,500.00
5	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Socoer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Basketball Courts Press Box/ Concession Structure  This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building Tot Lot Interpretive Signage Picnic Tables  Other Facilities  Expanded Maintenance Facility (30'x60')	QTY.  0 0 3 0 0 0 0 0  QTY.  1 1 0 6	UNIT EA EA EA EA EA EA EA UNIT LS EA EA UNIT LS	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$155,000.00  \$2,500.00  \$12,000.00  \$12,000.00  SUBTOTAL  UNIT PRICE  \$40,000.00  \$1,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00 AL  10,000.00 15,000.00 69,500.00
5	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Soccer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Press Box/ Concession Structure  This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building Tot Lot Interpretive Signage Picnic Tables  Other Facilities  Expanded Maintenance Facility (30'x60') Dog Park	QTY. 0 0 3 0 0 0 0 0 0 0 1 1 0 6	UNIT EA EA EA EA EA EA EA UNIT LS EA EA EA LS LS EA EA EA	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$1,000.00  \$2,500.00  \$12,000.00  \$12,000.00  \$12,000.00  \$10,000.00  \$40,000.00  \$40,000.00  \$15,000.00  \$15,000.00  \$10,000.00  \$40,000.00  \$1	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00 AL  10,000.00 15,000.00 69,500.00
5	Annual Bed Preparation  Athletic Fields  Baseball Field (seeded) (Lump Sum) Softball Field (seeded) (Lump Sum) Socoer Field (seeded) (Lump Sum) Horse Shoe Pits Sand Volleyball Courts Basketball Courts Basketball Courts Press Box/ Concession Structure  This does not include irrigation, sprigging or sod  Recreation Facilities  Multi-Use Pavilion Picnic Shelter (Large) Picnic Shelter (Small) Restroom/ Concession Building Tot Lot Interpretive Signage Picnic Tables  Other Facilities  Expanded Maintenance Facility (30'x60')	QTY.  0 0 3 0 0 0 0 0  QTY.  1 1 0 6	UNIT EA EA EA EA EA EA EA UNIT LS EA EA UNIT LS	\$30.00  SUBTOTAL  UNIT PRICE  \$86,000.00  \$70,000.00  \$155,000.00  \$2,500.00  \$12,000.00  \$12,000.00  SUBTOTAL  UNIT PRICE  \$40,000.00  \$1,000.00	\$ TOTA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	49,250.00 AL  465,000.00  465,000.00 AL  10,000.00 15,000.00 69,500.00

SUBTOTAL \$ 15,000.00

7/29/2004

Site Clearing & Grubbing	1	Site Preperation	QTY.	UNIT	UNIT PRICE	то	ΓAL
Topsol Stripping A Stockpiling   12500   CY   \$8.50   \$ 8.5,200.00							
Ripping (25% cut to fill)							
2   Hardscape							
Gi Width Trail Asphalt (1384 L.F.)		ripping (23% cut to iiii)	12300	CI			
Gi Width Trail Asphalt (1384 L.F.)	2	Hardscape	QTY.	UNIT	UNIT PRICE	тот	ΓΔΙ
10' Width Trail Asphalt (0 L.F.)							
Sub-base 6' 21-A		Sub-base 6" 21-A	307	Ton	\$15.00	\$	4,605.00
Sub-base 6' 21-A		401345 14 7 11 4 4 16 (0 1 5)		_	<b>*</b> 40.00	•	
12 Width Trail Asphalt (1129 L.F.)							-
Sub-base 6' 21-A		Gub-base of ZT-A	O	1011	ψ15.00	Ψ	
Concrete Pavement (15717 S.F.)   388			301	Ton	\$40.00		12,040.00
Sub-base 6' 21-A		Sub-base 6" 21-A	501	Ton	\$15.00	\$	7,515.00
Sub-base 6' 21-A		Concrete Payement (15717 S.F.)	388	CY	\$90.00	\$	34 920 00
Road & Parking 21-A Sub-base							
Road & Parking 21-A Sub-base							
New Curbing CG2 (standard)							
Storm Culverts 18" RCP		Road & Parking 21-A Sub-base	2,473	Ion	\$16.00	\$	39,568.00
Storm Culverts 18" RCP		New Curbing CG2 (standard)	1,022	LF	\$12.50	\$	12,775.00
Storm Culverts 24" RCP				EA			
Storm Culverts 24" RCP		Otamos Outros to 401 DOD	0		***	<b>.</b>	
Rip Rap EC at Culverts							<u>-</u>
Trash Receptacle   10							-
Benches 6' Length					*********	•	
Subtotal   \$205,753.00							
Large Shade Tree		Benches 6" Length	10	EA		_	
Large Shade Tree					SUBTUTAL	Ф	205,755.00
Ornmental / Flowering Tree         15         EA         \$200.00         \$3,000.00           Evergreen Tree         30         EA         \$200.00         \$6,000.00           Shrubs-med/small         50         EA         \$50.00         \$5,000.00           Ground Cover/perennial         3,000         EA         \$4.00         \$12,000.00           Annual         3,000         EA         \$2.00         \$6,000.00           Bed Preparation         50         CY         \$30.00         \$1,500.00           4         Athletic Fields         QTY.         UNIT         UNIT PRICE         TOTAL           Baseball Field (seeded) (Lump Sum)         0         EA         \$60.00.00         \$ -           Softball Field (seeded) (Lump Sum)         0         EA         \$155,000.00         \$ -           Soccer Field Large Pad (seeded) (Lump Sum)         0         EA         \$155,000.00         \$ -           Soccer Field Single Pad (seeded) (Lump Sum)         0         EA         \$155,000.00         \$ -           Horse Shoe Pits         0         EA         \$155,000.00         \$ -           Sand Volleyball Courts         0         EA         \$155,000.00         \$ -           Press Bow? Concession Structure	3	Landscaping	QTY.	UNIT	UNIT PRICE	TO	ΓAL
Evergreen Tree							
Shrubs-large							
Shrubs-med/small							
Ground Cover/perennial   3,000   EA   \$4.00   \$12,000.00     Annual   3,000   EA   \$2.00   \$6,000.00     Bed Preparation   50   CY   \$30.00   \$1,500.00     Athletic Fields   QTY.   UNIT   UNIT PRICE   TOTAL     Baseball Field (seeded) (Lump Sum)   0   EA   \$86,000.00   \$ -							
Bed Preparation   50							
SUBTOTAL   \$ 42,000.00							
Athletic Fields		Bed Preparation	50	Cf			
Baseball Field (seeded) (Lump Sum)					OODTOTAL	Ψ	42,000.00
Softball Field (seeded) (Lump Sum)	4		QTY.	UNIT	UNIT PRICE		ΓAL
Soccer Field Single Pad (seeded) (Lump Sum)							-
Soccer Field Large Pad (seeded) (Lump Sum)							-
Horse Shoe Pits							-
Basketball Courts							-
Press Box/ Concession Structure         0         EA         \$12,000.00         \$ -           This does not include irrigation, sprigging or sod         SUBTOTAL         \$ -           5         Recreation Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Multi-Use Pavilion         1         LS         \$80,000.00         \$ 80,000.00           Picnic Shelter (Large)         0         EA         \$10,000.00         \$ -           Picnic Shelter (Small)         10         EA         \$6,000.00         \$ 60,000.00           Restroom/ Concession Building         0         EA         \$40,000.00         \$ -           Tot Lot         1         LS         \$15,000.00         \$ 15,000.00           Interpretive Signage         0         EA         \$1,000.00         \$ -           Picnic Tables         18         EA         \$750.00         \$ 13,500.00           SUBTOTAL         \$ 168,500.00           6         Other Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>							-
This does not include irrigation, sprigging or sod   SUBTOTAL   \$ -							-
5         Recreation Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Multi-Use Pavilion Picnic Shelter (Large)         1         LS         \$80,000.00         \$80,000.00           Picnic Shelter (Small)         10         EA         \$60,000.00         \$60,000.00           Restroom/ Concession Building         0         EA         \$40,000.00         \$-           Tot Lot         1         LS         \$15,000.00         \$15,000.00           Interpretive Signage         0         EA         \$1,000.00         \$-           Picnic Tables         18         EA         \$750.00         \$13,500.00           SUBTOTAL         \$168,500.00           6         Other Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$-           Dog Park         1         LS         \$85,000.00         \$85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$5,000.00           Relocate Utility Poles         1         EA         \$5,000.00         \$5,000.00			U	LA			
Multi-Use Pavilion         1         LS         \$80,000.00         \$80,000.00           Picnic Shelter (Large)         0         EA         \$10,000.00         \$ -           Picnic Shelter (Small)         10         EA         \$6,000.00         \$ 60,000.00           Restroom/ Concession Building         0         EA         \$440,000.00         \$ -           Tot Lot         1         LS         \$15,000.00         \$ 15,000.00           Interpretive Signage         0         EA         \$1,000.00         \$ -           Picnic Tables         18         EA         \$750.00         \$ 13,500.00           SUBTOTAL         \$ 168,500.00           6         Other Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00		The deed not include imgalien, opingging or dea			002.0	•	
Picnic Shelter (Large)	5	Recreation Facilities	QTY.	UNIT	UNIT PRICE	TO	ΓAL
Picnic Shelter (Small)         10         EA         \$6,000.00         \$60,000.00           Restroom/ Concession Building         0         EA         \$40,000.00         \$ -           Tot Lot         1         LS         \$15,000.00         \$ 15,000.00           Interpretive Signage         0         EA         \$1,000.00         \$ -           Picnic Tables         18         EA         \$750.00         \$ 13,500.00           SUBTOTAL         \$ 168,500.00           Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ 5,000.00           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00							80,000.00
Restroom/ Concession Building   0							-
Tot Lot							-
Interpretive Signage							15,000.00
6         Other Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00							-
6         Other Facilities         QTY.         UNIT         UNIT PRICE         TOTAL           Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00           Vehicular Bridge 60' Length         0         EA         \$1,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00		Picnic Tables	18	EA			
Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00					SUBTOTAL	\$	168,500.00
Expanded Maintenance Facility (30'x60')         0         LS         \$400,000.00         \$ -           Dog Park         1         LS         \$85,000.00         \$ 85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00	6	Other Facilities	OTV	UNIT	LINIT PRICE	TO	ΓΔΙ
Dog Park         1         LS         \$85,000.00         \$85,000.00           Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00	<u> </u>						-
Vehicular Bridge 60' Length         0         EA         \$10,000.00         \$ -           Relocate Utility Poles         1         EA         \$5,000.00         \$ 5,000.00							85,000.00
		Vehicular Bridge 60' Length	0	EA	\$10,000.00	\$	-
SUBTOTAL \$ 90,000.00		Relocate Utility Poles	1	EA	\$5,000.00	\$	5,000.00
					SUBTOTAL	\$	90,000.00

Smithland Road Park Phase 4 Harrisonburg, Va Construction Cost Estimate

7/29/2004

1	Site Preparation	QTY.	UNIT	UNIT PRICE	тот	ΓAL
	Site Clearing & Grubbing	7	AC	\$1,500.00	\$	10,500.00
	Cut to Fill	4,300	CY	\$8.00	\$	34,400.00
	Topsoil Stripping & Stockpiling	5550	CY	\$6.00	\$	33,300.00
	Ripping (25% cut to fill)	1075	CY	\$3.50	\$	3,762.5
				SUBTOTAL	\$	81,962.5
2	Hardscape	QTY.	UNIT	UNIT PRICE	TO	
	6' Width Trail Asphalt (2565 L.F.)	342	Ton	\$40.00	\$	13,680.0
	Sub-base 6" 21-A	570	Ton	\$15.00	\$	8,550.0
	10' Width Trail Asphalt (835 L.F.)	185	Ton	\$40.00	\$	7,400.0
	Sub-base 6" 21-A	309	Ton	\$15.00	\$	4,635.0
	12' Width Trail Asphalt (0 L.F.)	0	Ton	\$40.00	\$	-
	Sub-base 6" 21-A	0	Ton	\$15.00	\$	-
	Concrete Pavement (4867 S.F.)	120	CY	\$90.00	\$	10,800.0
	Sub-base 6" 21-A	180	Ton	\$15.00	\$	2,700.0
						,
	Road & Parking Asphalt Pavement (32188 S.F.)	715	Ton	\$40.00	\$	28,600.0
	Road & Parking 21-A Sub-base	1,192	Ton	\$16.00	\$	19,072.0
	Now Curbing CG2 (etandard)	620	LF	¢10 F0	\$	7 750 0
	New Curbing CG2 (standard) Curb Ramps	620 4	EA	\$12.50 \$1,200.00	\$	7,750.0 4,800.0
	Caro Hampo	4	_/\	ψ1,200.00	Ψ	-,000.0
	Storm Culverts 18" RCP	0	LF	\$30.00	\$	-
	Storm Culverts 24" RCP	25	LF	\$50.00	\$	1,250.0
	Rip Rap EC at Culverts	75	Ton	\$100.00	\$	7,500.0
	Trook Recenteds	5	EA	4200 00	\$	1,500.0
	Trash Receptacle Benches 6' Length	10	EA	\$300.00 \$600.00	\$	6,000.0
	Denotics of Longin			SUBTOTAL	\$	124,237.0
					•	,
3	Landscaping	QTY.	UNIT	UNIT PRICE	TOT	ΓAL
	Large Shade Tree	20	EA	\$350.00	\$	7,000.0
	Ornamental / Flowering Tree	20	EA	\$200.00	\$	4,000.0
	Evergreen Tree Shrubs-large	25	EA EA	\$200.00	\$	5,000.0
	Shrubs-narge Shrubs-med/small	150 350	EA	\$50.00 \$30.00	\$ \$	7,500.0 10,500.0
	Ground Cover/perennial	3,000	EA	\$4.00	\$	12,000.0
	Annual	3,000	EA	\$2.00	\$	6,000.0
	Bed Preparation	50	CY	\$30.00	\$	1,500.0
				SUBTOTAL	\$	53,500.0
4	Athletic Fields	QTY.	UNIT	UNIT PRICE	тот	ΓAL
	Baseball Field (seeded) (Lump Sum)	0	ĒΑ	\$86,000.00	\$	-
	Softball Field (seeded) (Lump Sum)	0	EA	\$70,000.00	\$	-
	Soccer Field Single Pad (seeded) (Lump Sum)	0	EA	\$103,000.00	\$	-
	Soccer Field Large Pad (seeded) (Lump Sum)	0	EA	\$155,000.00	\$	-
	Horse Shoe Pits	4	EA	\$1,000.00	\$	4,000.0
	Sand Volleyball Courts	2	EA	\$2,500.00	\$	5,000.0
	Basketball Courts Press Box/ Concession Structure	2 0	EA EA	\$5,000.00 \$12,000.00	\$ \$	10,000.0
	This does not include irrigation, sprigging or sod	0	LA	SUBTOTAL	_	19,000.0
	The door not morade inigation, opingging or ood			002.02	•	.0,000.0
5	Recreation Facilities	QTY.	UNIT	UNIT PRICE	TO	ΓAL
	Multi-Use Pavilion	0	LS	\$80,000.00	\$	
	Picnic Shelter (Large)	1	EA	\$10,000.00	\$	10,000.0
	Picnic Shelter (Small)	6	EΑ	\$6,000.00	\$	36,000.0
	Restroom/ Concession Building Tot Lot	1 1	LS	\$40,000.00 \$15,000.00	\$	40,000.0 15,000.0
	Interpretive Signage	0	EA	\$1,000.00	\$	
	Picnic Tables	6	EA	\$750.00	\$	4,500.0
		-		SUBTOTAL	\$	105,500.0
6	Other Facilities	QTY.	UNIT	UNIT PRICE	тот	ΓAL
6	Expanded Maintenance Facility (30'x60')	0	LS	\$400,000.00	\$	ΓAL -
6	Expanded Maintenance Facility (30'x60') Dog Park	0	LS LS	\$400,000.00 \$85,000.00	\$	-
6	Expanded Maintenance Facility (30'x60')	0	LS	\$400,000.00	\$	- 10,000.0 5,000.0

7/29/2004

1	Site Preparation	QTY.	UNIT	UNIT PRICE	TOTAL	
	Site Clearing & Grubbing	1	AC	\$1,500.00	\$	1,500.00
	Cut to Fill	300	CY	\$8.00	\$	2,400.00
	Topsoil Stripping & Stockpiling	150	CY	\$6.00	\$	900.00
	Ripping (25% cut to fill)	75	CY	\$3.50 SUBTOTAL	\$ \$	262.50 <b>5,062.50</b>
				SUBTOTAL	\$	5,062.50
2	Hardscape	QTY.	UNIT	UNIT PRICE	TOTAL	
	6' Width Trail Asphalt (1218 L.F.)	162 270	Ton Ton	\$40.00	\$ \$	6,480.00
	Sub-base 6" 21-A	2/0	1011	\$15.00	Ф	4,050.00
	10' Width Trail Asphalt (4567 L.F.)	1,014	Ton	\$40.00	\$	40,560.00
	Sub-base 6" 21-A	1,691	Ton	\$15.00	\$	25,365.00
	12' Width Trail Asphalt (1842 L.F.)	491	Ton	\$40.00	\$	19,640.00
	Sub-base 6" 21-A	818	Ton	\$15.00	\$	12,270.00
	Concrete Pavement (1964 S.F.)	48	CY	\$90.00	\$	4,320.00
	Sub-base 6" 21-A	72	Ton	\$15.00	\$	1,080.00
	Cab bacc C 2177			<b>\$10.00</b>	•	1,000.00
	Road & Parking Asphalt Pavement (17,415 S.F.)	387	Ton	\$40.00	\$	15,480.00
	Road & Parking 21-A Sub-base	645	Ton	\$16.00	\$	10,320.00
	N 0 1: 000/4 1 "			***	•	0.0== = :
	New Curbing CG2 (standard)	270	LF FA	\$12.50	\$	3,375.00
	Curb Ramps	1	EA	\$1,200.00	\$	1,200.00
	Storm Culverts 18" RCP	0	LF	\$30.00	\$	_
	Storm Culverts 24" RCP	25	ĹF	\$50.00	\$	1,250.00
	Rip Rap EC at Culverts	50	Ton	\$100.00	\$	5,000.00
	Trash Receptacle	5	EA	\$300.00	\$	1,500.00
	Benches 6' Length	5	EA	\$600.00 SUBTOTAL	\$ \$	3,000.00 <b>154,890.00</b>
				SOBIOTAL	Ψ	134,030.00
3	Landscaping	QTY.	UNIT	UNIT PRICE	TOTAL	
	Large Shade Tree	20	EA	\$350.00	\$	7,000.00
	Ornamental / Flowering Tree	20	EA	\$200.00	\$	4,000.00
	Evergreen Tree	25	EA	\$200.00	\$	5,000.00
	Shrubs-large	100	EA	\$50.00	\$	5,000.00
	Shrubs-med/small Ground Cover/perennial	100 1,500	EA EA	\$30.00 \$4.00	\$ \$	3,000.00 6,000.00
	Annual	1,500	EA	\$2.00	\$	3,000.00
	Bed Preparation	50	CY	\$30.00	\$	1,500.00
	4			SUBTOTAL	\$	34,500.00
4	Athletic Fields	QTY.	UNIT	UNIT PRICE	TOTAL	
	Baseball Field (seeded) (Lump Sum)	0	EA	\$86,000.00	\$	
	Softball Field (seeded) (Lump Sum)	0	EA	\$70,000.00	\$	_
	Soccer Field Single Pad (seeded) (Lump Sum)	Ö	EA	\$103,000.00	\$	-
	Soccer Field Large Pad (seeded) (Lump Sum)	0	EA	\$155,000.00	\$	-
	Horse Shoe Pits	0	EA	\$1,000.00	\$	-
	Sand Volleyball Courts	0	EA	\$2,500.00	\$	-
	Basketball Courts	0	EA	\$5,000.00	\$	-
	Press Box/ Concession Structure This does not include irrigation, sprigging or sod	0	EA	\$12,000.00 SUBTOTAL	\$ <b>\$</b>	
	This does not include impation, sprigging or sou			JOBIOTAL	Ψ	-
5	Recreation Facilities	QTY.	UNIT	UNIT PRICE	TOTAL	
	Multi-Use Pavilion	0	LS	\$80,000.00	\$	-
	Picnic Shelter (Large)	1	EA	\$10,000.00	\$	10,000.00
	Picnic Shelter (Small)	10	EA	\$6,000.00	\$	60,000.00
	Restroom/ Concession Building	0	LS	\$40,000.00	\$	45.000.00
	Tot Lot Interpretive Signage	1 2	LS EA	\$15,000.00	\$ \$	15,000.00 2.000.00
	Picnic Tables	2 12	EA	\$1,000.00 \$750.00	\$ \$	9,000.00
	Tionio Tables	12	L/\	SUBTOTAL	\$	96,000.00
					•	
6	Other Facilities	QTY.	UNIT	UNIT PRICE	TOTAL	
	Expanded Maintenance Facility (30'x60')	0	LS	\$400,000.00	\$	
	Dog Park	0	LS	\$85,000.00	\$	
				φου,σου.σο		
		0	EA	\$10,000.00	\$	-
	Vehicular Bridge 60' Length Relocate Utility Poles	0	EA EA	\$10,000.00 \$5,000.00	\$ \$	-
	Vehicular Bridge 60' Length					-
	Vehicular Bridge 60' Length					- -

7/29/2004

1_	Site Preparation	QTY.	UNIT	UNIT PRICE	TOTAL	
	Site Clearing & Grubbing	11	AC	\$1,500.00	\$	16,500.00
	Cut to Fill	23,900	CY	\$8.00	\$	191,200.00
	Topsoil Stripping & Stockpiling	8900	CY	\$6.00	\$	53,400.00
	Ripping (25% cut to fill)	5975	CY	\$3.50 SUBTOTAL	\$ <b>\$</b>	20,912.50 282,012.50
						•
2	Hardscape	QTY.	UNIT	UNIT PRICE	TOTAL	
	6' Width Trail Asphalt (0 L.F.) Sub-base 6" 21-A	0 0	Ton Ton	\$40.00 \$15.00	\$ \$	
	Sub-base of 21-A	0	1011	ψ15.00	Ψ	
	10' Width Trail Asphalt (715 L.F.)	158	Ton	\$40.00	\$	6,320.00
	Sub-base 6" 21-A	264	Ton	\$15.00	\$	3,960.00
	401345 14 7 14 4 4 (0.1.5.)		_	040.00	•	
	12' Width Trail Asphalt (0 L.F.) Sub-base 6" 21-A	0 0	Ton Ton	\$40.00 \$15.00	\$ \$	
	Sub-base of 21-A	U	1011	\$15.00	φ	-
	Concrete Pavement (22153 S.F.)	564	CY	\$90.00	\$	50,760.00
	Sub-base 6" 21-A	820	Ton	\$15.00	\$	12,300.00
	Road & Parking Asphalt Pavement (126668 S.F.)	2,814	Ton	\$40.00	\$	112,560.00
	Road & Parking 6" 21-A Sub-base	2,345	Ton	\$16.00	\$	37,520.00
	New Curbing CG2 (standard)	978	LF	\$12.50	\$	12,225.00
	Curb Ramps	2	EA.	\$1,200.00	\$	2,400.00
	·					
	Storm Culverts 18" RCP	0	LF	\$30.00	\$	-
	Storm Culverts 24" RCP	0	LF Ton	\$50.00	\$ \$	-
	Rip Rap EC at Culverts	U	1011	\$100.00	Ф	-
	Trash Receptacle	5	EA	\$300.00	\$	1,500.00
	Benches 6' Length	10	EA	\$600.00	\$	6,000.00
				SUBTOTAL	\$	245,545.00
•	Landanadan	OTV	LINUT	LINIT DDICE	TOTAL	
3	Landscaping Large Shade Tree	QTY. 25	UNIT EA	\$350.00	TOTAI \$	8,750.00
	Ornamental / Flowering Tree	25	EA	\$200.00	\$	5,000.00
	Evergreen Tree	50	EA	\$200.00	\$	10,000.00
	Shrubs-large	100	EA	\$50.00	\$	5,000.00
	Shrubs-med/small	100	EA	\$30.00	\$	3,000.00
	Ground Cover/perennial	1,200	EA	\$4.00	\$	4,800.00
	Annual Bed Preparation	1,200 50	EA CY	\$2.00 \$30.00	\$ \$	2,400.00 1,500.00
	Bed i reparation	- 00	<u> </u>	SUBTOTAL	\$	40,450.00
4	Athletic Fields	QTY.	UNIT	UNIT PRICE	TOTAL	
	Baseball Field (seeded) (Lump Sum)	2	EA	\$86,000.00	\$	172,000.00
	Softball Field (seeded) (Lump Sum)	1 0	EA EA	\$70,000.00	\$	70,000.00
	Soccer Field Single Pad (seeded) (Lump Sum) Soccer Field large Pad (seeded) (Lump Sum)	0	EA	\$103,000.00 \$155,000.00	\$ \$	
	Horse Shoe Pits	Ö	EA	\$1,000.00	\$	-
	Sand Volleyball Courts	0	EA	\$2,500.00	\$	-
	Basketball Courts	0	EA	\$5,000.00	\$	-
	Press Box/ Concession Structure	11	EA	\$12,000.00	\$	12,000.00
	This does not include irrigation, sprigging or sod			SUBTOTAL	\$	254,000.00
5	Recreation Facilities	QTY.	UNIT	UNIT PRICE	TOTAL	L
	Multi-Use Pavilion	0	LS	\$80,000.00	\$	
	Picnic Shelter (Large)	1	EA	\$10,000.00	\$	10,000.00
	Picnic Shelter (Small)	0	EA	\$6,000.00	\$	<del>-</del> .
	Restroom/ Concession Building	1	EA	\$40,000.00	\$	40,000.00
	Tot Lot Interpretive Signage	0 0	LS EA	\$15,000.00 \$1,000.00	\$ \$	-
	Picnic Tables	6	EA	\$750.00	\$	4.500.00
-	-	*		SUBTOTAL	\$	54,500.00
•	Other Facilities	OTV	LINUT	LINIT DDICE	TOT **	
6	Other Facilities	QTY.	UNIT	\$400,000,00	TOTAL	
	Expanded Maintenance Facility (30'x60') Dog Park	0 0	LS LS	\$400,000.00 \$85,000.00	\$ \$	-
	Vehicular Bridge 60' Length	0	EA	\$10,000.00	\$	-
	Relocate Utility Poles	1	EA	\$5,000.00	\$	5,000.00
	•					
				SUBTOTAL	\$	5,000.00

	<u>SMITHLA</u>	ND ROAD PARK	PHASE 1		
	UT	ILITY TAKEOFF	<u> 2004</u>		
Item No.	<u>Description</u>	Est. Quant.	<u>Unit</u>	<u>UNIT PRICE</u>	COST
1	6" DISJ (CL52) WATER MAIN	290	LF	\$41.00	\$11,890.00
2	1" COPPER WATER SERVICE	270	LF	\$12.00	\$3,240.00
3	12" x 6" DIMJ TEE	1	EA.	\$494.00	\$494.00
4	6" DIMJ 45 DEG. BEND	1	EA.	\$142.00	\$142.00
5	6" DIMJ GATE VALVE w/BOX	1	EA.	\$505.00	\$505.00
6	ST'D FIRE HYDRANT	1	EA.	\$1,900.00	\$1,900.00
7	4" PVC SAN SEWER LATERAL	290	LF	\$20.00	\$5,800.00
8	SANITARY SEWER CLEANOUTS	2	EA.	\$88.00	\$176.00
			Phase 1	Sub Total :	\$24,147.00
	SMITHLA	ND ROAD PARK	PHASE 2		
	UT	ILITY TAKEOFF 2	2004		
Item No.	<u>Description</u>	Est. Quant.	<u>Unit</u>	<u>UNIT PRICE</u>	COST
1	8" DIMJ (CL52) WATER MAIN	1,580	LF	\$47.00	\$74,260.00
2	12" x 8" DIMJ TEE	1	EA.	\$534.00	\$534.00
3	12" DIMJ GATE VALVE w/BOX	1	EA.	\$1,655.00	\$1,655.00
4	8" DIMJ GATE VALVE w/BOX	3	EA.	\$810.00	\$2,430.00
5	8" DIMJ 45 Deg. BEND	1	EA.	\$380.00	\$380.00
6	8" DIMJ 11 1/4 Deg. BEND	1	EA.	\$390.00	\$390.00
7	8" x 6" DIMJ TEE	2	EA.	\$450.00	\$900.00
8	DEAD END ANCHOR (Water Line)	1	EA.	\$300.00	\$300.00
9	6" DIMJ (CL 52) WATER MAIN	95	LF	\$41.00	\$3,895.00
10	6" DIMJ GATE VALVE w/BOX	3	EA.	\$500.00	\$1,500.00
11	6" x 6" DIMJ TEE	3	EA.	\$255.00	\$765.00
12	ST'D FIRE HYDRANT	2	EA. LF	\$1,000.00	\$2,000.00
13	1" COPPER WATER SERVICE	450	<del>-</del> -	\$12.00	\$5,400.00
14 15	1" WATER LINE TAPS 1" WATER METERS	3	EA. EA.	\$259.00 \$222.00	\$777.00 \$666.00
		3	EA.	· ·	
16 17	48" Dia. MANHOLE, SANITARY FRAME & COVER, SANITARY	3	EA.	\$3,340.00 \$230.00	\$10,020.00 \$690.00
18	6" PVC (SDR 35) SANITARY SEWER	1,020	LF	\$40.00	\$40,800.00
19	4" PVC (SDR 35) SANITARY SEWER	400	LF	\$20.00	\$8,000.00
20	SANITARY SEWER CLEANOUTS	2	EA.	\$88.00	\$5,000.00 \$176.00
			Phase 2	Subtotal:	\$192,438.00
			2	0.0.0.0.0.	Ţ.5 <u>2</u> ,.5 <b>010</b> 0

		AND ROAD PARK			
	<u>U</u>	TILITY TAKEOFF	<u> 2004</u>		
Item No.	Description	Est. Quant.	<u>Unit</u>	UNIT PRICE	COST
1	8" DISJ (CL52) WATER MAIN	1000	LF	\$47.00	\$47,000.00
2	8" DIMJ GATE VALVE w/BOX	3	EA.	\$810.00	\$2,430.00
3	8" DIMJ 22 1/2 Deg. BENDS	3	EA.	\$390.00	\$1,170.00
4	8" x 6" DIMJ REDUCER	1	EA.	\$258.00	\$258.00
5	6" DIMJ GATE VALVE w/BOX	1	EA.	\$505.00	\$505.0
6	ST'D. FIRE HYDRANT	1	EA.	\$1,900.00	\$1,900.00
7	1" WATERLINE TAP	1	EA.	\$259.00	\$259.00
9	1" WATER METER	1	EA.	\$222.00	\$222.00
14	1" COPPER WATER SERVICE	20	LF	\$12.00	\$240.00
15	48" Dia. MANHOLE, SANITARY	1	EA.	\$3,340.00	\$3,340.00
16	GRINDER PUMP, SANITARY (COMPLETE)	1	EA.	\$3,000.00	\$3,000.00
17	2" PVC PRESSURE PIPE FORCE MAIN	1100	LF	\$6.00	\$6,600.00
18	30" STEEL CASING PIPE	70	LF	\$147.00	\$10,290.00
19	BORING UNDER RAILROAD (COMPLETE)	1	LUMP SUM	\$55,000.00	\$55,000.00
			Phase 3	Subtotal	\$132,214.00
			1 11400 0	Cubiotai	ψ102,214.00
		AND ROAD PARK			
	<u>U</u>	TILITY TAKEOFF	<u>2004</u>		
Item No.	Description	Est. Quant.	<u>Unit</u>	UNIT PRICE	COST
1	8" x 8" DIMJ TEE	1	EA.	\$430.00	\$430.00
2	8" DIMJ GATE VALVE w/BOX	2	EA.	\$810.00	\$1,620.00
3	8" DIMJ 45 Deg. BENDS	3	EA.	\$380.00	\$1,140.00
4	8" DISJ (CL52) WATER MAIN	1200	LF	\$47.00	\$56,400.00
5	8" x 6" DIMJ Tee	1	EA.	\$450.00	\$450.00
6	6" DIMJ GATE VALVE w/BOX	1	EA.	\$505.00	\$505.00
7	ST'D FIRE HYDRANT	1	EA.	\$1,900.00	\$1,900.00
8	1" WATER LINE TAP	1	EA.	\$259.00	\$259.00
	1" WATER METER	1		\$222.00	\$222.00
9	1" COPPER WATER SERVICE	80	LF	\$12.00	\$960.00
9 10	II COLLEK WATER SERVICE	00			
10		1	LA.	<b>53.34</b> 0.00	<b>\$3.34</b> U.U
10 11	48" Dia. MANHOLE, SANITARY	1	EA. EA.	\$3,340.00 \$3,000.00	
10			EA. EA. LF	\$3,340.00 \$3,000.00 \$6.00	\$3,000.00
10 11 12	48" Dia. MANHOLE, SANITARY GRINDER PUMP, SANITARY (COMPLETE)	1	EA. LF	\$3,000.00 \$6.00	\$3,000.00 \$6,000.00
10 11 12	48" Dia. MANHOLE, SANITARY GRINDER PUMP, SANITARY (COMPLETE)	1	EA. LF Phase 4	\$3,000.00	\$3,340.00 \$3,000.00 \$6,000.00 \$76,226.00 \$425,025.00

T			
	-		/\
	<b>4</b> F	IJ	∕┪

Land Planning & Design Associates, Inc.

## Appendix 2

**Utility Plans** 

_		
т.	$\mathbf{r}$	_ ^
	$\boldsymbol{\nu}$	1 1/
		. , ,

Land Planning & Design Associates, Inc.

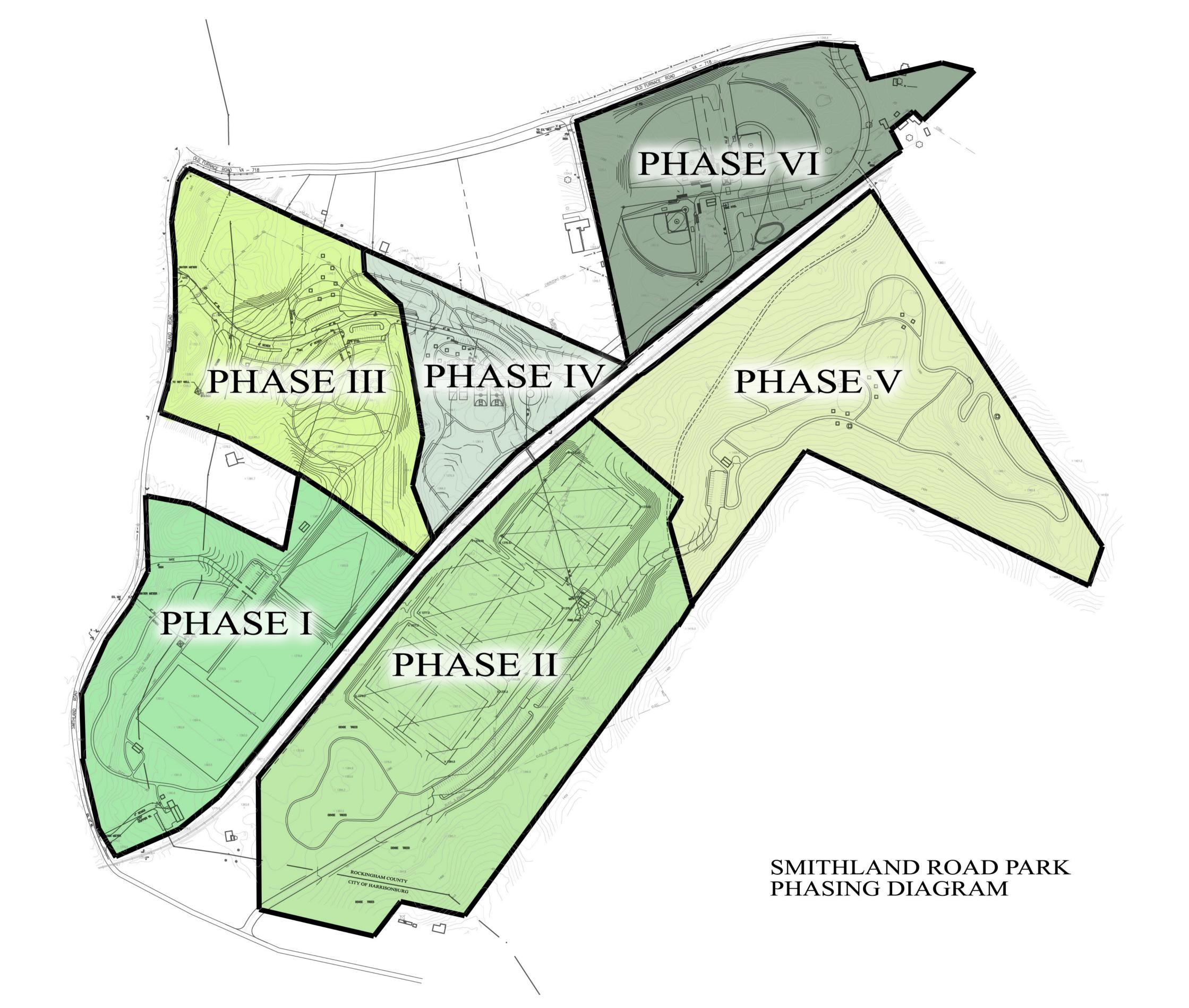
## Appendix 3

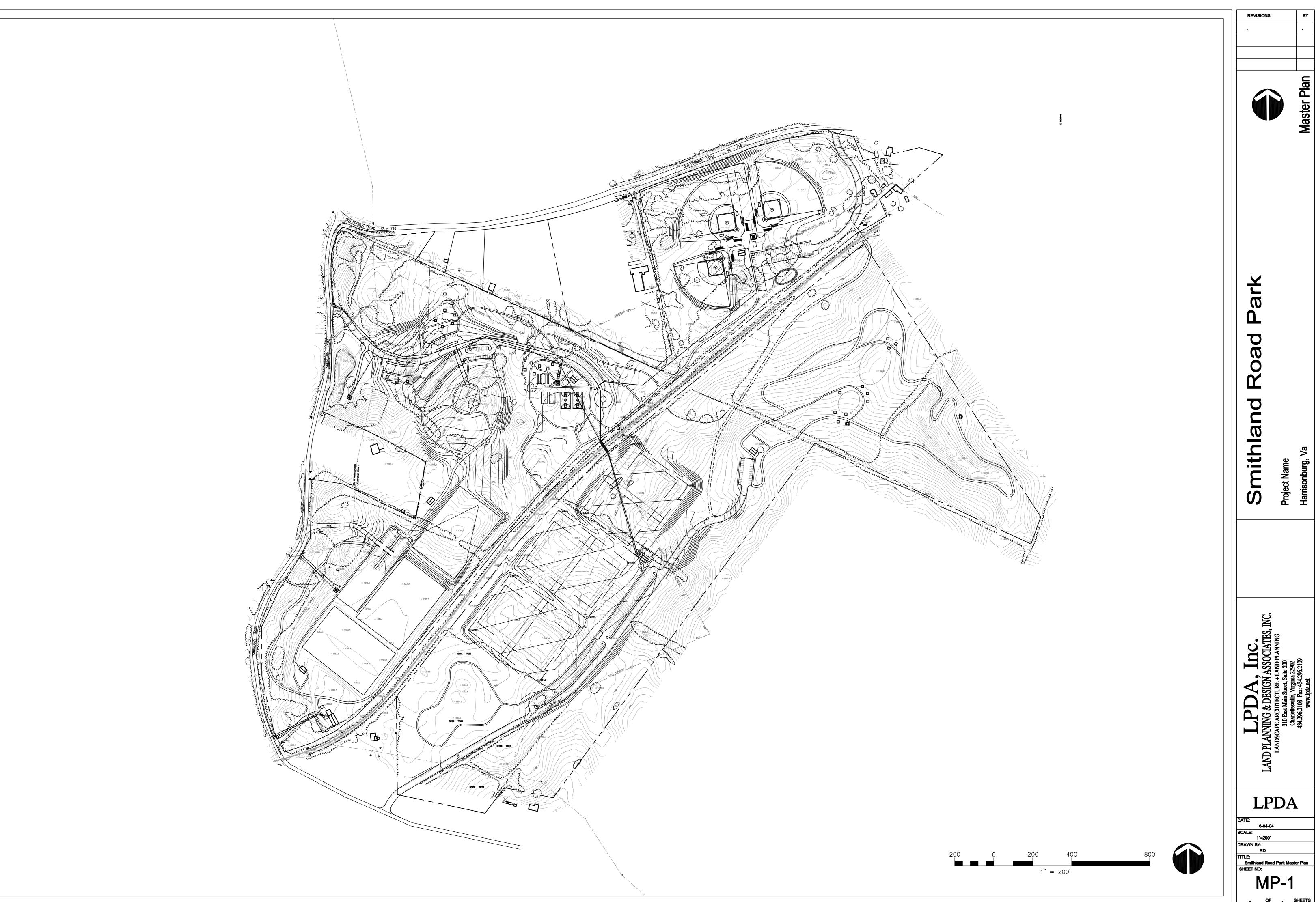
**Master Plan Sheets** 

# Smithland Road Park

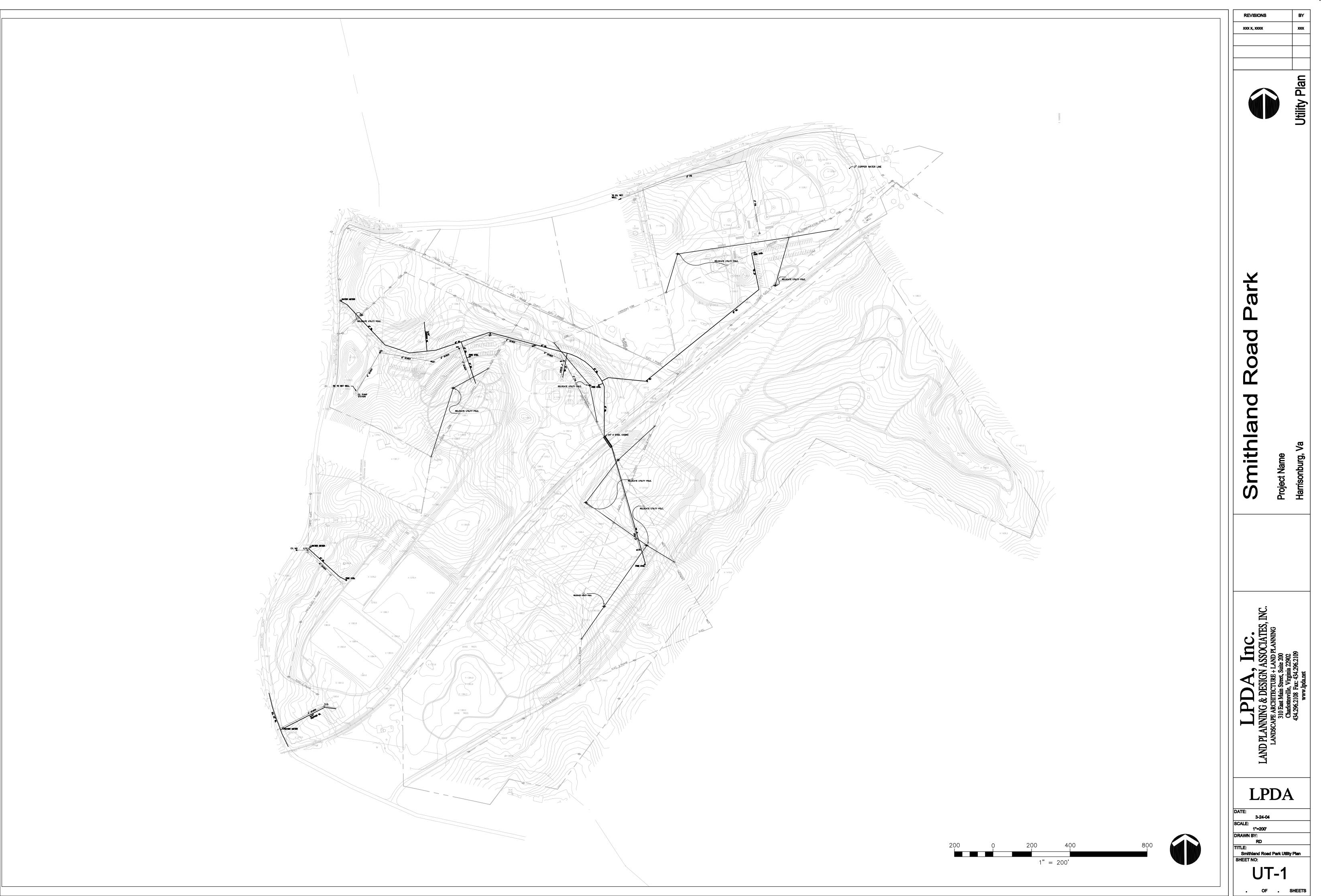
Harrisonburg, Virginia







LPDA



## Appendix 4

Irrigation Plan Sheets

# IRRIGATION LEGEND

- TORO 640-02-42 GEAR DRIVE SPRINKLER HEAD
- △ TORO S800 SERIES GEAR DRIVE SPRINKLER HEAD
- TORO 1" QUICK COUPLING VALVE (474-00)

Smithland Road Park

Project Name

NG & DESIGN ASSOCIATES, INC.
ARCHITECTURE + LAND PLANNING
Deast Main Street, Suite 200
harlottesville, Virginia 22902
L296.2108 Fax: 434.296.2109

LPDA

DATE:

4/1/04

SCALE:

1"=80'

DRAWN BY:

RD

IR-1

SMITH TURF & IRRIGATION CO.

P.O. BOX 6327 • RICHMOND, VIRGINIA • 23230

(804) 355-6404 • D I S T R I B U T O R S • (800) 752-7931

# IRRIGATION LEGEND

- TORO 640-02-42 GEAR DRIVE SPRINKLER HEAD
- △ TORO S800 SERIES GEAR DRIVE SPRINKLER HEAD
- TORO 1" QUICK COUPLING VALVE (474-00)

Smithland Road F

LPDA, Inc.
LANNING & DESIGN ASSOCIATES, INC.
NDSCAPE ARCHITECTURE + LAND PLANNING
310 East Main Street, Suite 200

LPDA

DATE:

4/1/04

SCALE:

1"=50'

DRAWN BY:

DRAWN BY:

RD

TITLE:

Smithland Road Park Master P

SHEET NO:

IR-2

