CHESTERFIELD COUNTY

www.chesterfield.gov/ManagementServices/Purchasing/purchase.asp

Our vision is to be recognized by our customers and professional peers as an innovative provider of excellence in customer service and as a leader in the purchasing profession.

Our mission is to support our customers in performing their mission by providing quality purchasing services.

SPECIFICATIONS AND INVITATION FOR BIDS

Purchasing Department
9901 Lori Road
P. O. Box 51
Chesterfield, VA 23832-0001
Telephone No. (804) 748-1617

CHESTERFIELD COUNTY PURCHASING DEPARTMENT
GENERAL TERMS, CONDITIONS, AND INSTRUCTIONS
IMPORTANT - READ CAREFULLY BEFORE SUBMITTING BID

1. **SUBMISSION AND RECEIPT OF BIDS:**

   a. Sealed bids shall be received until, but no later than the specified time and date of opening as designated in the invitation. Late bids shall be rejected. **Bids, to include addenda or changes to a response, shall not be accepted via a FAX machine or by Internet E-mail.**

   b. In the event that Chesterfield County is closed due to inclement weather and/or emergency situations prior to or at the time set aside for the published bid opening, the bid opening date will default to the next open business day at the same time.

   c. All bids shall be signed on the Terms and Signature Sheet in order to be considered. Bids submitted without a signature shall be rejected. If the Bidder is a partnership or corporation, the Bidder shall show the title of the individual signing the bid, and if the individual is not an officer of the partnership or corporation, if requested, the Bidder shall submit proof that the individual has the authority to bind the partnership or corporation.

   d. **Only when <u>specifically</u> requested in the white pages of the Bid Documents,** shall each bid be accompanied by a bid bond with surety satisfactory to the County Attorney or a Cashier's or a Certified Check, made payable to the Treasurer, Chesterfield County, in an amount equal to five percent of the total bid price. In the event of default by the Bidder, the five percent deposit shall be and represent liquidated damages to the County. Bids received without a bid bond, when specifically requested, shall be rejected.

   e. Bids concerning separate bid invitations are not to be combined on the same form or placed in the same envelope. Bids submitted in violation of this provision may not be considered.

   f. Unless otherwise specified, Bidders are to use the bid form furnished by the County.

   g. No bid shall be altered or amended after the specified time for opening.

2. **AMENDING BIDS:** <u>Amending or withdrawing bids by a potential bidder **prior** to bid opening:</u> A potential bidder may amend and/or withdraw a bid before the due date and time set for receipt of bids. All requests from a potential bidder to return their bid shall be in writing, addressed to the Purchasing Department, and signed by a person authorized to represent the person or firm that submitted the bid. The potential bidder may be contacted by telephone to verify the authorization of the return request and the signature involved if there is doubt as to the documents authenticity. **All amendments/alterations to the bid are to be initialed by an individual authorized to represent the person or firm that submitted the bid.**

3. **WITHDRAWAL OF BIDS:**

   <u>Withdrawal: Construction</u> (*Code of Virginia 2.2-4330)*

   a. A bidder for a public construction contract, other than a contract for construction or maintenance of public highways, may withdraw of his bid from consideration if the price bid was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith, and the mistake was a <u>clerical</u> mistake as opposed to a judgment mistake, and was actually due to an unintentional arithmetic error or unintentional omission of a quantity of work, labor, or material made directly in the compilation of a bid which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the bid sought to be withdrawn. If a bid contains both clerical and judgment mistakes, a bidder may withdraw his bid from consideration if the price bid would have been substantially lower than the other bids due solely to the clerical mistake, that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a bid which shall be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the bid sought to be withdrawn.

No bid may be withdrawn after the scheduled closing time for receipt of bids for sixty (60) calendar days, except as provided in Section 2.2-4330(A)(i), *Code of Virginia*, which states the bidder shall give notice in writing of his claim of right to withdraw his bid within two business days after the conclusion of the bid opening procedure. Any withdrawal request made to the Director of Purchasing must be accompanied by bidder's original work papers, or such request will be rejected.
In order for work papers, documents and materials submitted pursuant to this section to be deemed a trade secret or proprietary information pursuant to *Code of Virginia*, subdivision F of 2.2-4342, a bidder must expressly invoke the aforementioned statute in the notice of withdrawal and specifically state the reasons why protection under 2.2-4342-F is necessary.

Withdrawal: (other than construction)

b. A bidder for a public contract may request withdrawal of his bid from consideration if the price bid was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith, and the mistake was a clerical mistake as opposed to a judgment mistake, and was actually due to an unintentional arithmetic error or unintentional omission of a quantity of work, labor, or material made directly in the compilation of the bid which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the bid sought to be withdrawn. If a bid contains both clerical and judgment mistakes, a bidder may request withdrawal of his bid from consideration if the price bid would have been substantially lower than the other bids due solely to the clerical mistake, that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a bid which shall be clearly shown by objective evidence drawn from inspection of original work papers documents and materials used in the preparation of the bid sought to be withdrawn. In order for work papers, documents and materials submitted with the notice of withdrawal to be deemed a trade secret or proprietary information pursuant to *Code of Virginia*, subdivision F of 2.2-4342, a bidder must expressly invoke the aforementioned statute in the notice of withdrawal and specifically state the reasons why protection under 2.2-4342-F is necessary.

4. **DENIAL OF WITHDRAWAL OF BID**: *(Code of Virginia 2.2-4330)*

If the County denies the withdrawal of a bid, it shall notify the bidder in writing stating the reasons for its decision and award the contract to such bidder at the bid price, provided such bidder is a responsible and responsive bidder.

5. **MISTAKES IN BIDS**

a. Mistakes discovered following bid opening but prior to award: If there is a significant and obvious disparity between the prices of the lowest apparent responsive bidder and other bidders, the low bidder may be contacted by the purchasing authority to confirm the bid price. This does not relieve a bidder from the responsibility for the submission of a correct bid. If the bidder then alleges a mistake in the bid and can provide clear and convincing evidence that supports the existence of a clerical error to the satisfaction of the purchasing authority, the bid may be withdrawn only after approval by the County.

b. Mistakes discovered after award: Bids containing mistakes by bidders shall not be withdrawn after award of a contract or issuance of a purchase order.

6. **PRICING:**

a. Bidder warrants by virtue of bidding that prices, terms and conditions quoted in his bid will be firm for acceptance for a period of sixty (60) days from the date of bid opening unless otherwise stated by the County or Bidder.

b. Prices should be stated in units of quantity as specified in the bid form. In case of error in extension of prices in the bid, the unit price shall govern.

c. When a bid is for goods and/or services to be delivered on a one time only or staggered basis, only firm pricing shall be given consideration. General terms such as "price in effect at time of delivery" shall not be considered for award.

7. **PERFORMANCE AND PAYMENT BOND: When requested in the bid**, the County shall require the successful bidder to furnish a performance bond and labor and material payment bond with surety satisfactory to the County Attorney in the amount of the contract price at the time of or prior to execution of the contract. If bonds are requested in the bid, the successful Bidder shall pay the cost thereof; if not specified, the successful Bidder, when requested to do so, shall secure the bonds and the County shall pay the cost thereof.

8. **DELIVERY POINT AND TERMS:** All items shall be delivered F.O.B. destination, and freight, delivery costs, and incidental charges shall be included in the bid price(s). Failure to do so may be cause for not making award to a Bidder. The Bidder shall assume all liability and responsibility for the delivery of merchandise in good condition to the specified delivery location(s).

9. **PAYMENT TERMS:** If discounts for prompt payment are offered by the bidder, it is required that a minimum of twenty (20) days be allowed for payment. Discounts for prompt payment will not be considered in the evaluation of bids. Discounts for prompt payment will be shown on the purchase order/contract and taken if invoices are processed and payment made within the stipulated time frame. If discounts are not offered, payment shall be made thirty (30) days after receipt of an accurate invoice by the County.

10. **USE OF BRAND NAMES/SUBSTITUTIONS:** Unless otherwise specified in the invitation to bid, the name of a certain brand, make or manufacturer does not restrict bidders to the specific brand, make or manufacturer named; it conveys the general style, type, character, and quality desired, and any product which the County in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be accepted.

    In requesting a proposed substitution, the bidder shall submit with the bid form the name of the manufacturer, model number, and complete specifications on the proposed substitution for evaluation by the County. The bidder shall submit, with the bid form, a detailed list of any deviations from these specifications, written or implied. The bidder assumes responsibility for all changes in the work required as a result of the proposed substitution, including any change not listed in the request, but determined by the County to be necessary at a later point of progress in the work.

    It shall be understood that the burden of proof for an "equal" product shall be and remain the sole responsibility of the bidder. The County's failure to object to a manufacturer shall not constitute a waiver of any of the requirements of the contract documents, and all products furnished by the listed manufacturer must conform to such requirements. The County's decision of approval or disapproval of a proposed substitution shall be final.

11. **QUALITY:** All materials used for the manufacture or construction of any supplies, materials, or equipment covered by this bid shall be new. Unless otherwise specified in bid, products bid must be new, the latest model, the best quality, and the highest grade workmanship.

12. **ACCEPTANCE OF MATERIAL:** The goods and/or services delivered as a result of this bid shall remain the property of the seller until a physical inspection is made, and thereafter accepted to the satisfaction of the County. In the event the goods and/or services supplied to the County are found to be defective or do not conform to specifications, the County reserves the right to cancel the order upon notice (verbal or in writing) to the seller and return goods to seller at the seller's expense.

13. **DELIVERY:** In the appropriate space, the bidder shall state the time of proposed delivery or project completion in number of calendar days. Unless otherwise specified, quote the earliest delivery possible, as this may be considered a factor in making award. Delivery expressed in calendar days may be given preference over such general terms as "stock, "immediately", and "as soon as possible". As time will be of the essence for any orders placed as a result of this bid, the County reserves the right to cancel such orders, or any part thereof, without obligation, if delivery is not made at the time(s) specified on bid form.

14. **COPYRIGHTS OR PATENT RIGHTS:** The bidder certifies by submission of bid that there has been no violation of copyrights or patent rights in manufacturing, producing, or selling the product or services shipped or ordered as a result of this bid. The successful bidder shall, at his own expense, defend any and all actions or suits charging such infringement, and will save Chesterfield County, its officers, employees, and agents harmless from any and all liability, loss, or expense incurred by any such violation.

15. **SAMPLES:** Evidence in the form of samples may be requested if brand being quoted upon is other than as specified. The County reserves the right to request that such samples be furnished at the time of bid opening. The County also reserves the right to request samples after the date of bid opening. Requested samples shall be furnished free of expense to the County and if not used in testing or destroyed, will, upon request at the time of submission of sample, be returned at the bidder's expense.

16. **TAXES:** Chesterfield County is exempt from payment of Federal Excise Tax and State and Local Sales and Use Tax on all tangible personal property purchased or leased by Chesterfield County for its use or consumption. Tax exemption certification will be furnished upon request. Sales tax, however, is paid by Chesterfield County on materials and supplies that are installed by a contractor and become a part of real property. Contractors are not exempt from paying taxes on these categories, as they are considered to be a cost of doing business and should be considered in pricing when preparing a bid.

17. **LICENSES, PERMITS, AND FEES:** All bids submitted shall have included in price the cost of any business and professional licenses, permits, or fees required by Chesterfield County or the Commonwealth of Virginia.

18. **SIGNED BID CONSIDERED AN OFFER:** This signed bid shall be considered an offer on the part of the bidder and shall be deemed accepted upon approval by Chesterfield County. In case of default by the successful bidder, or failure to deliver the goods and/or services ordered by the time specified, the County may terminate the purchase order and/or contract, and after due notice (verbal or in writing) may procure them from other sources and hold the defaulting bidder liable for any resulting additional cost.

19. **QUALITY EXPECTATION STATEMENT:** Chesterfield County, through its "Total Quality Improvement" initiative, is a recognized leader in providing quality products and services at the most effective cost possible. Therefore, the County fully expects, requires, and shall hold all Contractors, and all agents, staff, representatives, and subcontractors of the Contractor, responsible for, and accountable to, the highest quality standards of professional workmanship, products and services. In the spirit of the County's total quality improvement initiative, the Contractor shall be expected to become a member of the team and perform or provide all work, services and products with a target of "zero defects - zero rework".

20. **AWARD PHILOSOPHY:** Award will be made by the County to the lowest responsible bidder with the lowest responsive bid which is in substantial conformance with the terms, conditions, and specifications of the bid and is in conformance with the *Code of Chesterfield County* and the *Code of Virginia.*

    Chesterfield County reserves the right to accept or reject any or all bids or parts of bids, to waive informalities, and to request rebids. The County also reserves the right to award the bid in a manner which the County deems will best serve its interest. Bids making exceptions to the terms and conditions included in this invitation may be considered, but preference may be given to bids with no exceptions taken. It further reserves the right to award the bid on a split order basis, lump sum, or individual item basis, or such combination as shall best serve the interest of the County, unless otherwise specified. The County may award a bid to a single contractor or to multiple contractors. It also reserves the right to increase or decrease quantities at the unit price bid.

21. **FACTORS OTHER THAN PRICE IN AWARD DECISION:** The following factors in addition to price (as they apply) shall be a consideration in the award decision:

    a. The ability to provide references which may substantiate past work performance and experience in the type of work required for the contract. The lowest responsive bidder(s) may be required to furnish a contractor qualifications statement, to include references, prior to any such award. The County may contact all references furnished by bidders. The right is further reserved by the County to contact references other than, and/or in addition to, those furnished by the bidder. If, in the sole opinion of the County, a bidder is determined to be non responsible as a result of any investigation conducted by or for the County, award will not be made to that bidder.

    b. The quality of performance/workmanship of previous contracts for goods and/or services delivered to or performed for the County.

    c. The timely completion of previous contracts for services or the timely delivery of past orders for goods.

d. The sufficiency of financial resources and its impact on ability of the bidder to perform the contract or provide the services.

e. The County reserves the right, at its option, to conduct on-site inspections of any bidder's facilities prior to award. The results of any such inspection will be considered by the County in determining bidder's capabilities of successfully administering the contract.

f. The ability and availability of the bidder to provide both quality and timely maintenance, service, and/or parts.

g. The resale value, life cycle costing and value analysis of a product.

h. The availability and capability of local and regional vendor support as it affects the quantity, quality, and timeliness of the goods and/or services.

i. Timely delivery of goods or timely completion of services as stated by bidder.

j. Substantial compliance or noncompliance with specifications set forth in bid as determined by the County.

k. Inventory capability as it relates to a particular bid.

l. Results of product testing.

22. **STATE REGISTRATION OF CONTRACTORS (IF APPLICABLE):** Attention is directed to Chapter 11, Title 54.1 of the *Code of Virginia* (Re: State registration of contractors when applicable), which requires that all bidders shall show evidence of the proper license under the provision of this chapter before such bid is considered.

23. **INTERPRETATION OF BID:** If any party contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the bid, the Purchasing Department should be contacted. Any change to the Invitation to Bid will be made only by written addendum mailed to prospective bidders at the addresses furnished for such purposes. The County will not be responsible for any changes except as noted through a written addendum.

24. **PROPRIETARY INFORMATION:** Section 2.2-4342-F of the *Code of Virginia* states: Trade secrets or proprietary information submitted by a bidder, offeror, or contractor in connection with a procurement transaction or prequalification application submitted pursuant to subsection B of 2.2-4317 shall not be subject to the Virginia Freedom of Information Act (2.2-3700 et seq.); however, the bidder, offeror, or contractor shall (i) invoke the protections of this section prior to or upon submission of the data or other materials, (ii) identify the data or other materials to be protected, and (iii) state the reasons why protection is necessary.

25. **GOVERNING LAW:** Any contract resulting from this Invitation to Bid shall be governed by the provisions hereof and by the laws of the Commonwealth of Virginia. Any dispute arising out of this Contract shall be resolved in the Courts of the Commonwealth of Virginia, in and for Chesterfield County.

26. **TIE BIDS:** In the case of a tie bid, the County may give preference to goods, services, and construction produced in the County or provided by persons, firms or corporations having principal places of business in the County. If such choice is not available, preference shall then be given to goods and services produced in the Commonwealth pursuant to Section 2.2-4324 of the Code of Virginia. If no County or Commonwealth choice is available, the tie shall be decided by lot.

27. **NONASSIGNMENT:** Parties to any resulting contract shall not assign the contract without written consent of the other(s). If any party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the contract.

28. **AUDIT OF VENDOR RECORDS:** The County reserves the right to audit all vendor records in contracts where payments are based on contractor's records of time, salaries, materials, or actual expense.

29. **NEGOTIATION:** If the bid from the lowest responsible bidder exceeds available funds, the County may negotiate with the low bidder to obtain a contract price within available funds.

30. **SECTION 2.2-4311 *CODE OF VIRGINIA*:** Every contract for goods or services over $10,000 shall include the following provisions:

    1. During the performance of this contract, the Contractor agrees as follows:

        a. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

        b. The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, will state that such Contractor is an equal opportunity employer.

        c. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

    2. The Contractor shall include the provisions of the foregoing paragraphs a, b, and c in every subcontract or purchase order of over $10,000, so that the provisions will be binding upon each subcontractor or vendor.

31. **APPROPRIATION OF FUNDS:** The continuation of the terms, conditions, and provisions of any resulting contract beyond June 30 of any year, the end of the County's fiscal year, are subject to approval and ratification by the Chesterfield County Board of Supervisors and appropriation by them of the necessary money to fund said contract for each succeeding year.

32. **SCHOOL BOARD:** When goods and/or services are for the benefit of Chesterfield County Schools, the contract shall be entered into on behalf of the Chesterfield County School Board.

33. **REQUIREMENTS CONTRACTS:**

    a. Whenever a bid is sought seeking a source of supply for a requirements contract for goods and/or services, the quantities or usage shown are estimates only. No guarantee or warranty is given or implied by Chesterfield County as to any minimum or total amount that may or may not be purchased from any resulting contracts.

    b. The County reserves the right, at its sole option, to renew the contract for consecutive terms.

    c. The County reserves the right to award bids for requirements contracts based on the pricing of the initial term of the contract or any combination of initial and renewal terms.

    d. The County may award a bid to a single contractor or to multiple contractors.

    e. The County reserves the right not to renew the contract at the end of the initial term or any subsequent term.

    f. The County reserves the right to terminate the contract upon written notice to the contractor(s).

    g. In the event that a requirements contract is awarded for goods and/or services, the County reserves the right to bid individual bulk purchases if the County deems it will best serve their interest.

    h. It is understood and agreed to between the parties in a resulting contract that Chesterfield County shall not be obligated to purchase or pay for materials under such contract unless and until they are ordered and delivered.

    i. Bids based on a firm price or those including a "downward escalator" clause for a requirements contract term may be given preference over lower ones bearing an "escalator" clause.

    j. The County has the right to extend this contract up to and not to exceed one hundred twenty (120) days following the last term of renewal.

34. **DRUG FREE WORKPLACE**

During the performance of this contract, the contractor agrees to:

a. Provide a drug-free workplace for the contractor's employees

b. Post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition

c. State in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace

d. Include the provisions of the foregoing clauses in every subcontract or purchase order over $10,000, so that the provisions will be binding upon each subcontractor or vendor

For the purposes of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this chapter, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

35. **ENVIRONMENTAL MANAGEMENT:** Vendor/Supplier/Contractor shall be responsible for complying with all federal, state, and local environmental regulations relating to transportation, handling, storage, spillage and any other aspect of providing the services specified herein, as applicable.

36. **SECTION 2.2-4343.1 *CODE OF VIRGINIA:*** Chesterfield County does not discriminate against faith-based organizations.

CHESTERFIELD COUNTY PURCHASING DEPARTMENT
CHESTERFIELD, VIRGINIA 23832-0051
(804) 748-1617

Bid Prepared By: | Invitation To Bid Number:

Cathy M. Lantz, CPPB
Purchasing Officer

04-3176-8986

June 3, 2004

Sealed bids, subject to the specifications and conditions contained herein and attached hereto, will be received in the Purchasing Department, Chesterfield Administration Building, Room 402, until, but no later than **3:00 p.m.** Local Time Prevailing **June 17, 2004**, and then publicly opened and read aloud to **furnish and install TORO (NO SUBSTITUTE) Automatic Turf Irrigation System for Athletic Fields at R. Garland Dodd at Point of Rocks Park for the Chesterfield County Parks and Recreation Department.**

If you are an individual with a disability and require a reasonable accommodation, please notify the Purchasing Department (804) 748-1617, three working days prior to need.

To be considered, your bid must be submitted on a copy of this Invitation to Bid. Bidders shall sign this form in the space provided on the Terms and Signature Sheet and return bid document to: Chesterfield County Purchasing Department, Administration Building - Room 402 - Fourth Floor, 9901 Lori Road, P.O. Box 51, Chesterfield, VA 23832-0051. **Mark outside of your envelope with Invitation for Bid #04-3106-8986 and opening date of bid.**

Bids, to include addenda or changes to a response, shall not be accepted via Fax machine or by Internet E-mail.

Time is of the essence and any bid received after the announced time and date for submittal, whether by mail or otherwise, will be rejected. The time of receipt shall be determined by the time clock stamp in the Purchasing Department. Bidders are responsible for ensuring that their bids are stamped by Purchasing Department personnel before the deadline indicated. **Late bids received will be so noted in the bid file in order that the vendor's name will not be removed from the subject commodity/service list.**

Nothing herein is intended to exclude any responsible vendor, his product or service or in any way restrain or restrict competition. On the contrary, all responsible vendors are encouraged to bid and their bids are solicited.

For information pertaining to the award on this procurement transaction, bidders and/or offerors may access public notification electronically at
www.co.chesterfield.va.us/ManagementServices/Purchasing/purchase.asp.

COMMITMENT TO DIVERSITY AND CHESTERFIELD BUSINESSES

Chesterfield County is a rapidly growing progressive community consisting of an increasingly diverse population. This diversity provides for a dynamic and robust community that promotes growth. Chesterfield County believes that all of its citizens should benefit from this economic growth without regard to race, color, religion or economic status.

The county is committed to increasing the opportunities for participation of minority business enterprises, woman-owned businesses and businesses located in Chesterfield County to ensure diversity in its procurement and contract activities. These businesses are encouraged to respond to all Invitations for Bids and Requests for Proposals. In addition, the county strongly encourages each contractor and/or supplier with which the county contracts to actively solicit minority business enterprises, woman-owned businesses and businesses located in the county as subcontractors/suppliers for their projects.

Upon award/renewal of the contract, the successful bidder/offeror shall furnish data requested on the Certification of Subcontractor/Supplier Activity form included in this IFB/RFP document. This information will enable the county to document the dollar level of activity and measure the success of its purchasing and contracting efforts in this endeavor.

DEFINITIONS:

For purposes of Chesterfield County's classification and reporting program, in cooperation with the Virginia Department of Minority Business Enterprise**,** the following definitions apply:

Woman-Owned Business (WOB) **-** a business concern that is majority owned by a woman who also controls and operates the business. In this context, "control" means exercising the power to make policy decisions, and "operate" means being actively involved in the day-to-day management.

Minority Business Enterprise (MBE) - a business enterprise that is owned and controlled by one or more socially and economically disadvantaged persons. Such disadvantage may arise from cultural, racial, chronic economic circumstances or background or other similar cause. Such persons include, but are not limited to: Blacks, Hispanic Americans, Asian Americans, American Indians, Eskimos and Aleuts. (Reference: 2.2-1401 of the *Code of Virginia*)

Chesterfield Business (CB) - any private business enterprise, located within the jurisdictional boundaries of Chesterfield County.

CERTIFICATION OF SUBCONTRACTOR/SUPPLIER ACTIVITY
MINORITY BUSINESS ENTERPRISES, WOMAN-OWNED BUSINESSES
AND CHESTERFIELD BUSINESSES

Contractors shall furnish the information requested below regarding subcontractor(s) or supplier(s).

(This form will be sent by the Purchasing Department to the contractor for completion at the time of award/renewal, as appropriate.)

Name and Address of Subcontractor/Supplier	(T) MBE	(T) WOB	(T) CB	Commodity or Service	Dollar Amount

SAMPLE

If a continuation of this list of subcontractors/suppliers is needed, please attach additional pages to this form.

I have no MBE, WOB or CB applicable to this contract _____(T)

Contractor hereby certifies that the above information is correct.

Complete Legal Name of Firm: _____Date:_____

DEFINITIONS

A. **BID** - The proposal submitted by a Bidder on the Bid Form consistent with the Instructions to Bidders, to complete the Work for a specified sum of money and within a specified period of time.

B. **BIDDER** - An individual, firm, partnership or corporation qualified in accordance with the Virginia Public Procurement Act, and approved by the Owner, that submits a Bid for the Work, either directly or through a duly authorized representative.

C. **BID BOND** - The bond, with corporate surety, supplied by a Bidder to the Owner, and in all respects satisfactory to the Owner's Attorney, that guarantees the Bidder's compliance with the Contract Documents. A certified check or cashiers check payable to the Owner, delivered with the Bid, may also constitute a Bid Bond.

D. **BID DOCUMENTS** - All Contract Documents that the Owner or Engineer provides to potential Bidders before the time established for the submission of Bids.

E. **CHANGE ORDER** - An amendment or modification to the Contract properly executed by authorized representatives of the Owner and the Contractor on the form provided in the Contract Documents.

F. **COMPLETION OF THE WORK** - The event that occurs when (1) the Work has been completed, successfully tested and approved in accordance with the Contract Documents, (2) all submittals required by the Contract Documents (including Operation and Maintenance manuals) have been made, and (3) all Punch List items and restoration Work required by the Contract Documents has been completed.

G. **CONTRACT BONDS** - The Performance Bond and Labor and Material Payment Bond executed by the Contractor, with corporate surety and otherwise acceptable in all respects to the Owner's Attorney.

H. **CONTRACT DOCUMENTS** - The Notice to Bidders, Advertisement, General Terms, Conditions and Instructions, Definitions, Bid Form, Bid Bond, Bond Requirements, Contract, Special Conditions, Supplementary General Conditions, Insurance Provisions (including Instructions Regarding Insurance Certificates), Labor and material payment Bond, Performance Bond, Notice of Award, Notice to Proceed, Escrow Agreement (when used), Change Orders, Drawings, Specifications and Addenda, Special Provisions and any other document incorporated by reference into one of these documents.

I. **CONTRACT PRICE** - The amount of money which the Owner and the Contractor have agreed that the Owner will pay to the Contractor for performing and completing the Work.

J. **CONTRACTOR** - The party who has contracted to perform and complete the Work.

K. **ENGINEER** - The Consulting Engineer who has been designated by the County as Engineer for the project, and the Engineer's authorized agents, inspectors or representatives.

L. **FINAL ACCEPTANCE** - The event that occurs when the Engineer issues to the County or the County issues to the Contractor a written statement that the Contractor has completely performed all Punch List items, has made all necessary submittals to the Owner and/or Engineer and has satisfied all of the Contractor's obligations under the Contract Documents.

M. **FINAL INSPECTION** - The inspection conducted by the Owner or Engineer to determine what items of the Work must be completed by the Contractor in order for Completion of the Work to occur. After the Final Inspection is conducted, the Owner or Engineer shall provide the Contractor with a Punch List that the Contractor must complete in order for Completion of the Work to occur. The Owner may perform the Final Inspection instead of, or together with, the Engineer.

N. **FINAL PAYMENT** - Payment by the Owner to the Contractor after Completion of the Work so that the Contractor has received all payments due him under the terms of the contract documents for performing and completing the Work.

O. **INSPECTOR** - The person appointed by the Owner to carry out instructions given by the Owner and to inspect the Work performed and the materials supplied by the Contractor.

P. **OWNER** - Chesterfield County, Virginia, a political subdivision of the Commonwealth of Virginia, and its duly authorized officials, agents and employees.

Q. **PLANS** - All drawings or reproductions of drawings that depict or relate to the Work. A pictorial representation of the Work or some portion of the Work, showing design, location and dimensions.

R. **PUNCH LIST** - The list provided to the Contractor by the Engineer or Owner after Final Inspection that includes all items that the Contractor must complete in order for Completion of the Work to occur.

S. **SPECIFICATIONS** - The directions, provisions and requirements contained in the Contract Documents relating to the method or manner of performing the Work, or to the quantity or quality of materials to be furnished under the Contract Documents.

T. **SUBCONTRACTOR** - Any individual, firm or corporations having a direct contract with the Contractor for the performance of any part of the Work.

U. **TIME OF COMPLETION** - The time agreed upon by the Owner and the Contractor in the Contract by which the Contractor is required to accomplish Completion of the Work, plus any extensions of time granted to the Contractor by the Owner pursuant to the Contract Documents.

V. **THE WORK** - The whole and any part of the construction, labor, materials, equipment, incidentals or services necessary for the Contractor to achieve Completion of the Work as required by the Contract Documents.

SPECIAL BID CONDITIONS

SCOPE OF WORK

The purpose of this Invitation for Bid is to furnish all equipment, labor and materials necessary to install TORO (no substitute) Automatic Turf Irrigation System for athletic fields at R. Garland Dodd at Point of Rocks Park for the Chesterfield County Parks and Recreation Department.

The County Parks Department has standardized on the Toro Irrigation Equipment for maintenance, service and parts inventory purposes.

SITE VISIT

Contractors are encouraged to visit the project site. To schedule an appointment, contact Mark Askin, Assistant Chief of Parks, at (804) 751-4481 or Stuart Connock, Chief of Design and Construction at (804) 751-4484 or (804) 363-2434.

GUARANTEE

All materials and workmanship shall be guaranteed for a period of twelve (12) months after final acceptance by the County and repairs necessary shall be made by the contractor at his expense.

BONDS

A Bid Bond, Labor and Material Payment Bond and Performance Bond **shall not be** required for this project.

RESPONSIBILITY OF BIDDER

The Bidder shall make a careful examination of the project site, shall familiarize himself with existing conditions, and shall satisfy himself as to the quantity and quality of materials and workmanship required for the Work. He shall carefully and thoroughly examine the Contract Documents before submitting a Bid.

LICENSES, PERMITS, AND FEES: All bids submitted shall have included in price the cost of any business and professional licenses, permits, or fees required by Chesterfield County or the Commonwealth of Virginia.

Request for interpretation of plans and specifications should be addressed to: Stuart Connock, Chief of Design and Construction, at (804) 751-4484, or Cathy M. Lantz, CPPB, Purchasing Officer, at (804) 748-1701 to be given consideration and should be received at least five days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instruction will be in the form of written addenda to the specifications which, if issued, will be mailed or faxed to all prospective bidders (at the respective addresses or fax numbers furnished for such purposes), not later than three days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

The submission of a Bid shall constitute a warranty by the bidder that he has complied with the requirements of this paragraph. The bidder is bound by his bid and his bid reflects an affirmative representation that he has examined the project thoroughly.

DATE OF COMMENCEMENT AND COMPLETION

The date of commencement shall be established in a written Notice To Proceed issued by the Owner.

Work under the Base Bid and accepted Alternates shall be completed within time frame indicated in the bid and established in the Notice To Proceed.

ACCESS TO COUNTY PROPERTY

Access to the County's property shall be coordinated between Stuart Connock, County Representative and the successful Contractor.

WARRANTY SERVICE/PARTS

The irrigation system manufacturer shall have an authorized service facility within fifty (50) miles of the Chesterfield County Parks and Maintenance Facility, and/or have a mobile unit available that can respond to repair service within a forty-eight (48) hour time period, after notification by the County, or other accommodations that the county deems will meet its requirements.

INSURANCE

A copy of a Certificate of Insurance shall be required and must be furnished by the successful contractor during execution of the contract. The Certificate of Insurance does not need to accompany the bid.

The contractor shall purchase and maintain in force, at his own expense, such insurance as will protect him and the County from claims which may arise out of or result from the Contractor's execution of the work, whether such execution be by himself, his employees, agents, subcontractors, or by anyone for whose acts any of them may be liable. The insurance coverage shall be such as to fully protect the Owner, the Engineer (if applicable) and the general public from any and all claims for injury and damage resulting by any actions on the part of the contractor or his forces as enumerated above. The Contractor shall furnish a copy of a Certificate of Insurance, **naming Chesterfield County and Chesterfield County School as additionally insured**. Should any of the policies be cancelled before the expiration date, the issuing company will mail 30 days written notice to the certificate holder. The Contractor shall furnish insurance in satisfactory limits, and on forms and of companies which are acceptable to the Owner's Attorney and/or Risk Management and shall require and show evidence of insurance coverages on behalf of any subcontractors (if applicable), before entering into any agreement to sublet any part of the work to be done under this Contract.

The following insurance requirements are the minimum that will be acceptable:

1. Worker's Compensation Insurance with statutory limits and Employers' Liability Insurance of $500,000 for one accident or aggregate disease.

2. Commercial General Liability - $1,000,000 Each Occurrence Combined Single Limit - Including coverage for XC and U hazards

3. Comprehensive Automobile Liability - $1,000,000 Each Occurrence Combined Single Limit

4. Umbrella Liability Insurance - $2,000,000 Each Occurrence

All insurance policies under coverages 2 and 4 above shall name the Owner, as additional insured.

The Contractor shall be responsible for maintaining current certificates of insurance on file with the Owner, and the Insurance Company shall be responsible for notifying the Owner thirty (30) days prior to the expiration, cancellation, non-renewal, or material change in the coverage.

The Contractor shall be responsible for continuing in force completed operations, bodily injury and property damage coverage for a minimum of two (2) years after completion and acceptance of the work.

For projects with a construction cost of less than $50,000, Builder's Risk coverage for the full project value shall be paid for and provided by the Contractor and be subject to approval by the Office of Risk Management. This coverage shall be provided by a company with an A.M. Best rating of no less than B+. The County shall be named as an additional insured.

For projects with a construction cost of more than $50,000, the Builder's Risk coverage will be provided by the County, however, the Contractor shall be responsible for the first $10,000 of any claim. The County's Builder's Risk coverage is $50,000 self insured retention.

INSTRUCTIONS REGARDING INSURANCE CERTIFICATES

The Contractor and his insurance company should carefully review the insurance requirements applicable to this job. All requirements herein must be met before the County will execute the contract. In particular, we would call your attention to the following:

1. Please note that the Insurance Certificate must state that the Commercial General Liability and the Umbrella Liability Insurance Policies name **Chesterfield County and Chesterfield County School Board** as additionally insured. This requirement may be met by placing the following language on the Certificate. Many Certificates have a space headed **"DESCRIPTION"** where the language may be inserted as follows:

   Chesterfield County and Chesterfield County School Board as additionally insured *or that* **Chesterfield County and Chesterfield County School Board as additionally insured with respects to General Liability; and/or Umbrella Liability policies.**

2. The Insurance Certificate must also contain the required statement concerning notice of cancellation or other change in coverage. The statement used on some Certificate forms is not acceptable. The statement which is required by the contract documents reads as follows:

   "Such certificate shall provide that in the event of the cancellation of the policy or policies listed on such certificate, not less than 30 days notice in writing shall be given to the County.

   NOTE: The cancellation clause in the Insurance Certificate shall be modified by striking the words 'endeavor to' in the second line and by striking the clause reading 'but failure to mail such notice shall impose no obligation or liability of any kind upon the company'."

3. The Certificate Holder should be listed as:

   Chesterfield County
   c/o Purchasing Department
   P. O. Box 51
   Chesterfield, VA 23832-0051
   IFB/RFP No. _____

4. Certificate of Insurance must have a signature.

DRAWINGS

NOTE: "The following drawings are downloadable."

The drawings, which include pages 1-6 are downloadable. For bidders convenience, a hard copy of a one (1) page drawing, that contains the same information as the downloadable drawings for this project, was attached to the Notice to Bidders.

If bidder did not receive this drawing or can not download drawings, drawing may be obtained by contacting the Chesterfield County Purchasing Department at (804) 748-1617, by e-mail at purchasing@chesterfield.gov or fax at (804) 717-6378.

As applicable, contractors shall be responsible for any mailing/shipping charges incurred with the distribution of the drawing and/or bid package. Contractor shall be required to furnish their UPS or Fed-X account number, as applicable. Drawing and/or bid package may be picked up from the Purchasing Department at no cost.

SUPPLEMENTARY GENERAL CONDITIONS

1. QUALIFICATIONS OF BIDDERS

The Owner may make such investigations as he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.

2. SUBMITTALS

If requested, the Bidder shall submit the following information to the County within seven days of notification of selection for the award of a Contract for the Work:

a. a designation of the Work to be performed by the Bidder with his own forces;

b. the proprietary names and the suppliers of principal items or systems of materials and equipment proposed for the work;

c. a list of names of the Subcontractors or other persons or entities proposed for the principal portions of the Work.

Prior to the award of the Contract, the County will notify the Bidder in writing if the Owner, after due investigation, has reasonable objection to any such proposed person or entity. If the Owner has reasonable objection to any such proposed person or entity, the Bidder may submit an acceptable substitute person or entity.

The Owner may, at his discretion, accept the substitution, or he may disqualify the Bidder. In the event of disqualification under this Sub-paragraph, bid security will not be forfeited.

Persons and entities proposed by the Bidder and to whom the Owner has made no reasonable objection under the provisions of Sub-paragraph (c) must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner.

3. PRE-CONSTRUCTION CONFERENCE

A pre-construction conference to include representatives of the Owner, the Engineer (if applicable), and the Contractor shall be mandatory prior to start of construction unless waived by the Owner. Pre-construction conference shall be scheduled at least three (3) days prior to start of construction.

4. SUPERVISION AND CONSTRUCTION PROCEDURES

The Contractor shall supervise and direct the Work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.

The Contractor shall be responsible to the Owner for the acts and omissions of his employees, Subcontractors and their agents and employees, and other persons performing any of the Work under a contract with the Contractor.

5. **CLEANING UP**

The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the Work, he shall remove all his waste materials and rubbish from and about the Project as well as all his tools, construction equipment, machinery and surplus materials.

6. **MATERIALS AND WORKMANSHIP**

The Contract Documents describe the character and features of the materials and workmanship required to perform the Work. The Contract Documents require first class work and materials in all particulars. It is understood that the contract includes any and all work that may be necessary to connect the work done with the adjoining work in a proper and workmanlike manner.

The Owner reserves the right to employ an independent testing laboratory to conduct tests of materials, etc. as the Owner may deem necessary to assure complete compliance with the requirements of the specifications. The Contractor shall offer full cooperation with personnel in the employ of the Owner in making these tests.

7. **NO DEVIATION FROM CONTRACT DOCUMENTS BY THE CONTRACTOR**

In performing the Work, the Contractor shall not deviate from the Contract Documents without the written consent of the Owner. If the Contractor does deviate from the Contract, he shall correct the error at his expense in a manner satisfactory to the Owner.

8. **INTERPRETATION OF CONTRACT DOCUMENTS**

In case of discrepancy between or among Contract Documents, the Owner shall make such interpretations as may be deemed necessary for the fulfillment of the intent of the Contract Documents as construed by him and his decision shall be final.

The Contractor shall verify all figures on the Plans and will be responsible for the proper coordination of all dimensions as well as the different parts of the Work.

9. **OTHER PLANS AND WORKING DRAWINGS (SHOP DRAWINGS)**

Such information as is necessary to give a comprehensive idea of the construction contemplated, are shown on the Plans. Contractor shall submit to the Owner for his approval such additional detailed shop or working drawings as may be required for the construction of any part of the work. Pending the approval of such drawings, any work done or materials ordered shall be at the risk of the Contractor.

10. **DISCREPANCIES**

The Contractor shall immediately report to the Owner, in writing, any discrepancies found between the Contract Documents and site conditions or any inconsistencies or ambiguities in the Contract Documents. The Owner shall promptly correct such inconsistencies or ambiguities in writing. Work done by the Contractor after his discovery of such discrepancies, inconsistencies or ambiguities shall be done at the Contractor's risk.

11. FINAL INSPECTION

At time of final inspection, the Contractor, if requested, shall provide a knowledgeable representative to assist in the inspection of the completed installation for conformance with specifications. The Owner or Engineer shall prepare a Punch List. Any deficiencies shall be promptly and permanently corrected prior to final acceptance of the work, and shall be the full responsibility of the Contractor.

12. PAYMENT

If the Contractor performs, properly, all of the obligations of the Contract Documents, the Owner shall pay the Contractor for the performance of the Work in the manner and within the time specified in the Contract Documents.

13. MONTHLY ESTIMATES AND RETAINAGE

On the 20th day of each month, or at any other regular time agreed upon by the Owner and Contractor, the Contractor shall prepare and submit to the Owner a monthly estimate for Partial Payment. The monthly estimate shall cover items of work for which the Contractor is entitled to be paid since the last previous monthly estimate was submitted, including (1) the value of the Work done, (2) major items of equipment or materials delivered to the site of the project to be installed by the Contractor, as substantiated by submitted invoices and as approved by the inspector, and (3) materials incorporated into the Work.

The Owner shall pay to the Contractor all sums due under the monthly estimate less five percent (5%) retainage on or before the 15th day of the month following the submission of the monthly estimate, unless the Owner asserts a right to withhold some or all of the payment under the provisions of the Contract Documents.

The Contractor will be paid for materials delivered to and stored on the job site. Payment will be for actual cost of materials as evidenced by receipted invoices, less five percent (5%) retainage. The contractor shall make a separate accounting of these materials and shall submit an accounting of them, with four (4) copies, along with the monthly estimate for partial payment.

14. PARTIAL PAYMENT NO WAIVER OF RIGHTS

Partial payments made under this Contract by the Owner are not evidence of the proper performance by the Contractor either in whole or in part, and no payment made by the Owner shall be construed to be an acceptance of defective or improper work. No act of the Owner or the Engineer or the representative of either of them in superintending or directing the Work, no failure to disapprove or reject any material used in the Work, and no extension of time for the completion of the Work shall be construed as acceptance of the Work either in whole or in part. Acceptance of the work by the Owner shall occur only upon Final Payment by the Owner.

15. TERMINATION FOR BREACH OF NON-PERFORMANCE

If the Contractor fails to perform the Work promptly and diligently, or if the Contractor breaches the Contract in any other way, the Owner may:

1) after providing the contractor with fifteen (15) days written notice, supply any workmen, equipment or materials necessary to ensure that the Work is performed promptly and diligently. The Owner may deduct the cost of supplying additional workmen, equipment or materials from payments due to the Contractor;

2) terminate the Contract, enter upon the premises, take possession of all equipment, materials or appurtenances, and employ any person or persons to finish the Work.

In case of termination of the Contract by the Owner pursuant to this paragraph, the Contractor shall not be entitled to receive any further payment from the Owner until Completion of the Work has occurred. After completion of the Work, the Owner shall pay to the Contractor the amount of the unpaid balance due to the contractor at the time the Contract was terminated minus the cost incurred by the Owner to complete the Work. If the cost incurred by the Owner to complete the Work exceeds the unpaid balance due to the Contractor, the contractor shall be due no money from the Owner and, instead, the Contractor shall pay to the Owner the difference between the unpaid balance due and the Owner's cost to complete the Work.

16. WAIVER OF ONE BREACH NOT WAIVER OF OTHERS

No waiver by the Owner or its agents or employees of any breach of this Contract by the Contractor shall be construed as a waiver of any other or subsequent breach of the Contract by the Contractor. All remedies provided by this Contract are cumulative, and in addition to each and every other remedy under the law.

BID FORM

To: **Chesterfield County**

For the Construction of: Toro (only) Turf Irrigation Systems at the following location for the Chesterfield County Parks and Recreation Department.

The undersigned Bidder has carefully examined the site of work, General Terms and Conditions, Special Bid Conditions, Supplementary General Conditions, Drawings and Technical Specifications, for the construction of the above named project, and in compliance with the Advertisement dated June 3, 2004, will provide all necessary machinery, tools, apparatus, and other means of construction, and do all the work and furnish all the material called for by said Specifications, in the manner prescribed therein, and will complete the Contract within the time limit indicated in this bid.

BASIS OF AWARD: Award will be made by the County to the lowest responsible bidder with the lowest responsive bid which is in substantial conformance with the terms, conditions, and specifications of the bid. Award will be made to a single bidder that meets the above requirements.

BASE BID

R. Garland Dodd at Point of Rocks Park $_____

TOTAL LUMP SUM PROJECT BID AMOUNT $_____

SITE START AND INSTALLATION SCHEDULE

Contractor shall indicate if project start and installation schedule requirements will be met.

YES NO (Circle One)

Start fifteen (15) days of Notice to Proceed and complete within thirty (30) days.

If no, please explain:_____

_____

MANUFACTURER/MODEL/WARRANTY INFORMATION

Contractors shall provide the following:

Manufacturer:_____

Model:_____

Warranty Parts/Labor:_____

(Additional manufacturer model numbers and warranty information may be submitted as an attachment with bid, if necessary).

WARRANTY/SERVICE AND REPAIR PARTS LOCATION

Contractors are required to provide authorized warranty service and parts facility, and/or mobile unit location contact person and telephone number. See bid specifications for contractor's responsibilities.

Facility _____ Contact Person _____

Address _____ Phone (_____)_____

_____ Fax (_____)_____

ADDENDUM INFORMATION (If Applicable)

Receipt of the addendum listed below is acknowledged and the proposals incorporate all requirements of this addendum:

_____ Dated _____

_____ Dated _____

_____ Dated _____

The undersigned Bidder agrees to begin work as indicated in this bid and specified in the Notice to Proceed and to prosecute the work in such manner as to complete it within the time limit as set forth.

If the bid from the lowest responsible bidder exceeds available funds, the County may negotiate with the low bidder to obtain a contract price within available funds.

CONTRACTOR REGISTRATION

If a contract for construction, removal, repair or improvement of a building or other real property is for Seventy Thousand Dollars ($70,000) or more, or if the total value of all such contracts undertaken by a Bidder within any twelve-month period is Five Hundred Thousand Dollars ($500,000) or more, the Bidder is required under Title 54.1, *Code of Virginia* (1950), as amended, to be licensed by the State Board of Contractors as a "CLASS A CONTRACTOR". If such a contract is for Seventy-five Hundred Dollars ($7,500) or more (One Thousand Dollars [$1,000] for electrical, plumbing and HVAC work) but less than Seventy Thousand Dollars ($70,000), the Bidder is required to be licensed as a "CLASS B CONTRACTOR". If such a contract is for One Thousand Dollars ($1,000) or more but less than Seventy-five Hundred Dollars ($7,500) and is not for electrical, plumbing and HVAC work, the Bidder is required to be licensed as a "CLASS C CONTRACTOR". The Contractor license shall have the appropriate specialty classification that is predominant for the respective work. The Bidder shall indicate in the space provided whichever of the following notations is appropriate, inserting his contractor license number and specialty.

Licensed Class A Virginia Contractor No. _____

Licensed Class B Virginia Contractor No. _____

Licensed Class C Virginia Contractor No. _____

Specialty:_____

If the Bidder shall fail to provide this information on his bid or on the envelope containing the bid and shall fail to promptly provide said Contractor license number to the County in writing when requested to do so before or after the opening of Bids, he shall be deemed to be in violation of Section 54.1-1115 of the *Code of Virginia* (1950), as amended, and his bid will not be considered.

If a Bidder shall fail to obtain the required license prior to submission of his bid, the bid shall not be considered.

TERMS AND SIGNATURE SHEET
All bids shall be signed on the Terms and Signature Sheet in order to be considered.

If discounts for prompt payment are offered by the bidder, it is required that a minimum of twenty (20) days be allowed for payment. Discounts for prompt payment will not be considered in the evaluation of bids. Discounts for prompt payment will be shown on the purchase order/contract and taken if invoices are processed and payment made within the stipulated time frame. If discounts are not offered, payment shall be made thirty (30) days after receipt of an accurate invoice by the County. Our terms are _____

Please indicate length of time required, in calendar days, for delivery/completion/pickup after notification of award (oral or written), as this may be a factor in making award. _____

All prices shall be F.O.B.: R. Garland Dodd at Point of Rock Park, 201 Enon Church Road Chester, VA 23831. Freight, delivery costs, and incidental charges shall be included in the bid price(s).

In compliance with this Invitation for Bid #04-3176-8986 and subject to all conditions thereof, the undersigned offers and agrees to furnish any or all items and/or services upon which prices are quoted, at the price quoted as specified.

My signature below certifies:

- I agree to abide by all conditions of this Bid and that I am authorized to sign this Bid.
- the accompanying bid is not the result of or affected by, any act of collusion with another person or company engaged in the same line of business or commerce, or any act of fraud punishable under, Chapter 12, Title 18.2, 498.4 of the *Code of Virginia*, 1950, as amended. Furthermore, I understand that fraudulent and collusive bidding is a crime under the Virginia Governmental Frauds Act, the Virginia Government Bid Rigging Act, the Virginia Anti-Trust Act, and Federal Law and can result in fines, prison sentences, and civil damage awards.
- the accompanying bid is in compliance with the *State and Local Government Conflict of Interests Act* 2.2-3100, supplemented by Article 6, 2.2-4367-69 of the *Code of Virginia*. Specifically, no county employee, county employee's partner, or any member of the county employee's immediate family holds a position with the bidder, offeror, or contractor such as an officer, director, trustee, partner or the like, or is employed in a capacity involving personal and substantial participation in the procurement transaction, or owns or controls an interest of more than five per cent.

Complete Legal Name of Firm: _____

Order From Address: _____

_____

Remit To Address: _____

_____

Signature:_____

Name (type/print): _____ **Title:** _____

Fed ID No.: _____ **Phone (____)**_____ **Fax (____)**_____

We hereby provide the following information to Chesterfield County regarding our business. We understand that it is provided for statistical purposes only and all firms submitting bids will receive equal consideration.

Minority Business Enterprise: **Yes** _____ **No** _____
Woman-Owned Business: **Yes** _____ **No** _____
Chesterfield Business: **Yes** _____ **No** _____

CONTRACTOR DATA SHEET
TO BE COMPLETED AND SUBMITTED WITH BID

QUALIFICATIONS: Firms shall have the capability and capacity in all respects to fulfill the contractual requirements to the satisfaction of the County.

Indicate the length of time you have been in business as a company providing the type of service required for this contract.

_____ years _____ months

Provide a minimum of three (3) references which may substantiate past work performance and experience in the type of work required for this contract.

Name, Address, Phone Number and Contact Person

1. _____
_____
_____
_____

2. _____
_____
_____
_____

3. _____
_____
_____
_____

SAMPLE
Page 1 of 3

CONTRACT

THIS AGREEMENT, made and entered into this _____ day of _____ month,_____ year, between THE COUNTY OF CHESTERFIELD, VIRGINIA, as party of the first part (hereinafter called the Owner), and _____ party of the second part (hereinafter called the Contractor).

WITNESSETH: In consideration for the mutual covenants hereinafter stated, the parties agree for themselves, their personal representatives, successors, assigns, as follows:

1. The Contractor promises and agrees:

A. To furnish all materials, equipment, tools, skill, and labor of every description necessary or reasonable incidental to carrying forth and completing in a good and workmanlike manner in accordance with the highest industry standards and in strict conformity with the Plans and Specifications entitled IFB #_____ - _____ (subject) which are incorporated herein by reference.

B. To commence work under this contract not later than ___ days following the date to be specified in the written "Notice to Proceed" by the Owner, and to fully complete all work hereunder within _____ calendar days from and including said date.

2. The Owner promises and agrees:

A. To pay the Contractor for said work when completed in accordance with the provisions of these Contract Documents, the Contract Sum as set forth in said Proposal amounting to_____ dollars, subject to additions and accepted by the County or its authorized representatives.

3. During the performance of this contract, the contractor agrees as follows:

A. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

B. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.

C. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

D. The contractor shall include the provisions of Section 3, the foregoing paragraphs A, B, and C in every subcontract or purchase order of over $10,000 so that the provisions will be binding upon each subcontractor or vendor.

During the performance of this contract, the contractor agrees to:

4. During the performance of this contract, the contractor agrees to:

A. Provide a drug-free workplace for the contractor's employees

B. Post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition

C. State in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace

D. Include the provisions of the foregoing clauses in every subcontract or purchase order over $10,000, so that the provisions will be binding upon each subcontractor or vendor

For the purposes of this section, “drug-free workplace” means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this chapter, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

5. It is further understood and agreed between the parties hereto as follows:

A. The said work is to be done in accordance with the laws of the State of Virginia to the entire satisfaction of the Owner, subject at all times to the inspection and approval of the Owner.

B. The decision of said County upon any questions connected with the execution of this agreement or any failure or delay in the prosecution of the work by said Contractor shall be final and conclusive.

C. The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to the other party hereto and to partners, successors, assigns and legal representatives of such other party in respect to covenants, agreements and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

6. The contractor's records, which shall include but not be limited to accounting records, written policies and procedures, subcontract files (including proposals of successful and unsuccessful bidders), original estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to the Contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by the Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments, change orders or claims submitted by the Contractor or any of its payees pursuant to the execution of the Contract. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with the Contract.

For the purpose of such audits, inspections, examinations and evaluations, the Owner's agent or authorized representative shall have access to said records from the effective date of the Contract, for the duration of the Work, and until three (3) years after the date of final payment by the Owner to the Contractor pursuant to the Contract.

The Owner's agent or its authorized representative shall have access to the Contractor's facilities, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits as required. The Owner's agent or its authorized representative shall give any auditee reasonable advance notice of intended audits.

The Contractor shall require all subcontractors, insurance agents, and material suppliers (payees) to comply with the provisions set forth by insertion of the requirements hereof in a written contract agreement between the Contractor and payee. Failure to obtain such written contracts which include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the Contractor pursuant to the Contract.

7. It is further understood and agreed as follows:

A. The undersigned Contractor/Vendor will indemnify and hold the County of Chesterfield, Virginia (the "County"), and its officers, agents, and employees harmless from and against all claims, damages, and losses arising out of or resulting from the Contractor/Vendor's providing or failure to provide any construction, product, goods, or services required, including but not limited to any such claim, damage, loss or expense, that is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, including the loss of use resulting therefrom, or to economic loss; provided, however, that the Contractor/Vendor's indemnification obligation under this agreement shall be limited to claims, damages, losses, and expenses to the extent caused by any act or omission of the Contractor/Vendor, or any subcontractor (a "Subcontractor") performing work required by the Contractor/Vendor's contract with the County, or anyone directly or indirectly employed by any of them or anyone for whose acts the Contractor/Vendor or his Subcontractor may be liable.

B. The Contractor/Vendor's indemnification obligation hereunder with respect to any and all claims against the County or any of its officers, agents or employees, by any employee or statutory employee of the Contractor/Vendor, or any

Subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts the Contractor/Vendor or Subcontractor may be liable, shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor/Vendor or any Subcontractor under Worker's Compensation Acts, Disability Benefit Acts or other Employee Benefit Acts unless otherwise provided by law.

C. When a consulting architect (the "Architect") has been retained by the County, the Contractor/Vendor's indemnification obligation hereunder shall not extend to the liability of the Architect, his agent or employees arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs or specifications, or (2) the giving of or the failure to give directions or instructions by the Architect, his agents or employees provided such giving or failure to give is the primary cause of the injury or damage.

8. Vendor/Supplier/Contractor will be responsible for complying with all federal, state and local environmental regulations relating to transportation, handling, storage, spillage and any other aspect of providing the services specified herein, as applicable.

9. Chesterfield County does not discriminate against faith-based organizations in accordance with the Code of Virginia, '2.2-4343.1.

IN WITNESS WHEREOF, said parties have hereunto set their hands the day and year first above written.

ATTEST:

_____

EXECUTED FOR THE COUNTY OF CHESTERFIELD, VIRGINIA

BY _____

TITLE _____

ATTEST:

_____

EXECUTED FOR THE CONTRACTOR

BY **SAMPLE ONLY**

TITLE _____

LANDSCAPE IRRIGATION SPECIFICATIONS

GENERAL

SCOPE

Provide all labor, equipment, materials and maintenance to fully and properly complete the work indicated on the drawings and/or specified herein. Unless specified otherwise in this section or attached drawings, the work includes, but is not limited to the following:

- Automatic controlled irrigation system, including piping, fittings, sprinkler heads and accessories;
- Controller and control lines and/or tubing;
- Booster pump;
- Valves and fittings;
- Trenching, backfill and reseeding to include all disturbed areas;
- Testing all systems, start-up and winterizing.

SITE LOCATIONS

The athletic fields to be irrigated are located at the following address:

R. Garland Dodd
At Point of Rocks Park
201 Enon Church Road
Chester, VA 23831

RELATED WORK BY OTHERS

Water meter to be provided by County.

Electric power source to be provided by the County.

SUBMITTALS

Submit design data and shop drawings as required.

The Owner will be the sole judge of acceptability for substitutions and no substitute will be bid, ordered, or utilized without the Owner's prior written acceptance. Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute which may not carry the same guarantee as that specified.

UTILITIES

Water meter connection (meter costs by owner) and main water lines are a part of this bid. Owner to apply for new water meter. Contractor to coordinate with Utilities Department for installation and connection.

Electrical power to controller and pump is part of this bid.

TIME SCHEDULE FOR START AND INSTALLATION SCHEDULE OF WORK

Irrigation installation shall start within 15 days after receipt of Notice to Proceed and be substantially complete within 30 days.

SITE AND DRAWING EXAMINATION

Any Contractor submitting a proposal for this work shall first examine the site of the proposed work and all conditions at the site that he may fully understand any facilities, difficulties, and/or unusual requirements, for the installation of all materials and work furnished under this section.

DRAWINGS AND SPECIFICATIONS

The drawings accompanying these specifications are to be considered important and integral parts of same, and anything omitted from one and embodied in the other is to be considered as essential to the requirements of the contract and must be furnished and installed by the Contractor.

The Contractor shall fully inform himself regarding any available space limitations and/or unusual requirements for the installation of all materials and work furnished under this section.

Questions pertaining to work shall be referred to the Owner for clarification. Contact Mark Askin at (804) 751-4481, Stuart Connock, Jr., at (804) 751-4484.

PRODUCTS

All materials to be incorporated in this system shall be new and without flaws or defects, all bearing manufacturer's name, ASTM and UL designations.

- Pipe: shall be class 200 (SDR 21) solvent weld for all pipe. Three way swing joints shall be manufacturer's name, ASTM and UL designations.

- Solvent: cement shall be compatible with PVC pipe.

- Drain Valves: manual, installed with gravel sump.

- Drain Covers: shall be Ametek, Toro or approved equal.

- Wire: control wire shall be 14/1 gauge UL/UF, direct burial red in color. Common wire shall be 14/1 gauge UL/UF, direct burial white in color.

  All wire splices below grade shall be made waterproof with correctly sized wire splice connectors, made for direct burial and rated for minimum of 30 volts.

  Wire shall be color-coded. White is to be used for common, red is to be used for control, blue for extra, green for stub-out and yellow for sensor. Any deviation will be replaced.

- Controllers: TORO Sentinel 48 Station Radio Controller, Model #SSAK48PS16NS4 supplied with (1) Sentinel Handheld Controller, Model #SHHR and (1) Sensor, Model #IR22QB. The County will provide and install appropriate electrical panel box and breakers and will make electrical connections. (Controller shall be mounted on concrete slab per manufacturer’s specifications).

- Valves: Automatic remote control valves (RCV) shall be sized as specified on drawings. RCVs shall be installed per manufacturer's recommendations and shall be rated for pressure and flow as required. RCVs shall be low voltage. Valves shall be constructed of plastic. Valves shall be the P220-26-06, 11/2" model as manufactured by The Toro Company, Riverside, California.

- Backflow Prevention: shall be installed by others and will be RPZ type as required to meet all applicable codes or as specified on drawing.

- Sprinkler Heads: with approved rubber covers shall be Toro 640-02-41 Checkomatic, or otherwise specified on drawings.

- Booster Pump: shall be 1-1/2 HP, minimum booster pump (120/240v; single phase) or size as recommended by bidder. Pump shall be centrifugal type pump that provides 60 PSI at the head. Pump shall be model CT60-1505 as manufactured by Aermotor. Enclosure shall be approved by County.

- Quick Coupler: shall be solid brass 1" size to include swivel and key model #474-00 as manufactured by the Toro Company.

- Contractors Representative: Methods and materials used for cutting and patching shall be acceptable to the Irrigation Designer.

MATERIALS

Provide only new materials, without flaws or defects and of the highest quality of their specified class and kind to be provided by an authorized Product Distributor. Product distributors will be asked to submit their factory authorization to sell and service all components that they provide.

Comply with pipe sizes indicated. No substitution of smaller pipes of the Irrigation Designer. Larger sizes may be used subject to acceptance of the Irrigation Designer. Remove damaged and defective pipe.

Provide pipe continuously and permanently marked with manufacturer's name or trademark, size schedule and type of pipe, working pressure at 73 degrees F. and National Sanitation Foundation (NSF) approval.

- Plastic Pipe, Fittings, and Connections: 2" diameter and under: SDR21, class 200, bell end PVC. PVC pipe fittings: ASTM D2241 schedule 40 PVC molded fittings suitable for solvent weld connections. Fittings made of other materials are not permitted. Saddle and cross fittings not permitted.

- Sprinkler Heads, Valves, and Associated Equipment: Provide manufacturer's data on each type of equipment to obtain Irrigation Designers approval.

OUTLETS

- Quick Coupler: Solid bronze, 1" size to include swivel and key model #474-00 as manufactured by The Toro Company, Riverside, California.

- Sprinklers: 1" threaded inlet, stainless steel riser with the ability to mount 2" below grade. Sprinklers shall discharge 11.0 GPM @ 60 PSI base pressure. Sprinklers shall be model 640-02-41 as manufactured by The Toro Company, Riverside, California.

- Sleeves: Sleeves shall be schedule 40 PVC as indicated on the plan. Any additional sleeves shall be two sizes larger than the pipe routed through them.

ACCESSORIES

- Drainage Fill: 2" washed pea gravel.

- Fill: Clean soil free of stones larger than 1" diameter foreign matter, organic material, and debris.

Provide imported fill material as required to complete the work. Obtain rights and pay all costs for imported materials.

Suitable excavated materials removed to accommodate the irrigation system work may be used as fill material subject to the Irrigation Designers review and acceptance.

- Clamps: Stainless steel, worm gear hose clamps with stainless steel screws or ear type clamps.

- Low Voltage Wire Connectors: Socket seal type wire connectors and waterproof gel sealer with wire connectors 3M DBY's and DBR's.

EXECUTION

Prior to beginning any work, Contractor shall field test water supply at top location and notify the Owner in writing, describing the pressure and flow. The Contractor shall note any problems which may affect the operation of the system as designed.

Layout work as accurately as possible to drawings. Contractor shall verify location of utilities, plant material and other fixtures. No irrigation lines shall be within 5' of any tree. The Contractor shall be responsible for full and complete coverage of all irrigated areas and shall make any necessary minor adjustments at no additional cost to the Owner.

Plastic pipe shall be delivered to the site in unbroken bundles packaged in such a manner as to provide adequate protection for the pipe ends, either threaded or plain.

EXCAVATION AND TRENCHING

Excavation and Trenching shall be completed to finish grade.

- Perform all excavation as required for the installation of the work. Restore all surfaces and underground installation damaged or cut as a result of excavations to their original compacted condition and in a manner approved by the Owner.

- Trenches shall be made of sufficient depth to provide a minimum cover of 36" over all 2" lines, and a minimum cover of 18" over all lines less than 2". The backfill shall be thoroughly compacted to 95% of theoretical maximum density in accordance with Virginia Test Method I.

- Concrete thrust blocks shall be installed at all directional changes in the pipeline. The size, shape, and mixture of the concrete thrust block shall be constructed according to pipe manufacturer's instructions and specifications.

Plastic Pipe shall be installed in a manner so as to provide for expansion and contraction.

- Plastic pipe shall be cut with a hand saw or hack saw with the assistance of a square in sawing vice, or in a manner so as to ensure a square cut. Burrs at cut ends shall be removed prior to installation so that a smooth unobstructed flow will be obtained.

- All plastic to plastic joints shall be solvent weld joints or slip seal joints. Only the solvent recommended by the pipe manufacturer shall be used. All plastic pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer and it shall be the Contractor's responsibility to make arrangements with the pipe manufacturer for all field assistance that may be necessary. The contractor shall assume full responsibility for the correct installation.

- The solvent weld joints shall be made in the following manner:

  - Thoroughly clean the mating pipe and fitting with a clean dry cloth.

  - Apply a uniform coat of solvent to the pipe and fitting with a non-synthetic bristle brush.

  - Insert one pipe and fitting, and give a quarter turn to insure even distribution of the solvent and make sure the pipe is inserted to the full depth of the fitting socket.

  - Hold in position for minimum 15 seconds.

  - Wipe off excess solvent that appears at the outer shoulder of the fitting; care should be taken so as not to use an excess amount of solvent thereby causing a burr or obstruction to form on the inside of the pipe.

- The joints shall be allowed to set at least 24 hours before pressure is applied to the system of PVC pipe.

- All plastic to metal threaded connections shall utilize Teflon Tape as sealant material.

All control lines shall be installed in a neat and orderly fashion and may be installed either in the main and lateral trenching or in their own separate trench. The lines shall be bundled together and taped every 5'. Control line connections shall be as approved in a preceding section of these specifications. All control lines shall be separate lines from controller to head.

Install manual drain valves (enclosed in valve boxes) horizontally at low points in lines to prevent damage due to freezing, place 1 cu. ft. gravel sump at each valve. All lines to be set such that drain valves occur outside the bounds of the established regulation playing areas.

Install air compressed blow-out fitting, enclosed in valve box, at Owner approved location. Set heads flush with finish grade. Take all necessary precautions to protect turf areas: recompact and ensure protection of turf during any adjustments, replacements or other work after turf is in place.

Gate valves shall be installed at each P.O.C. where shown on drawings. Quick coupling valves to be installed where shown on drawings.

Install controllers at Owner approved locations. All controllers to be installed in Owner designated area adjacent to fields. Supply necessary materials to make electrical connections to County junction boxes.

All sprinklers shall be installed on swing joints. The sprinkler head shall be installed so that the top is slightly above the finished grade level. Backfill around the swing joint and sprinkler shall be free of large rocks, roots, or foreign debris.

Contractor shall be responsible for obtaining all required permits and inspections. Copies of approved inspections shall be forwarded to the Owner.

FLUSHING AND TESTING

After all new piping and risers are in place and connected, for a given section, and all necessary work has been completed and prior to the installation of sprinkler heads, all control valves shall be opened and a full head of water used to flush out the system. Testing of the system shall be performed after completion of each section or completion of the entire installation and any necessary repairs shall be made at the Contractor's expense, to put the system in good working order.

CLEANUP AND SUBSTANTIAL COMPLETION

Areas damaged during the progress of the work or during repairs shall be the responsibility of the Contractor to restore to a condition satisfactory to the Owner.

Upon substantial completion and reinspection of all repairs or renewals necessary, the Contractor shall notify the Owner five days in advance for an inspection.

GUARANTEE

It shall be the Contractor's responsibility to insure and guarantee complete coverage of the areas shown on the drawings to be irrigated and be responsible for any and all settlement of trenches. He shall also guarantee the satisfactory operation of the entire system and the workmanship and restoration of the area. The entire system shall be guaranteed to be complete and perfect in every detail for a period of one (1) year from the date of its acceptance and he HEREBY AGREES to repair or replace any such defects occurring within that year, free of expense to the Owner.

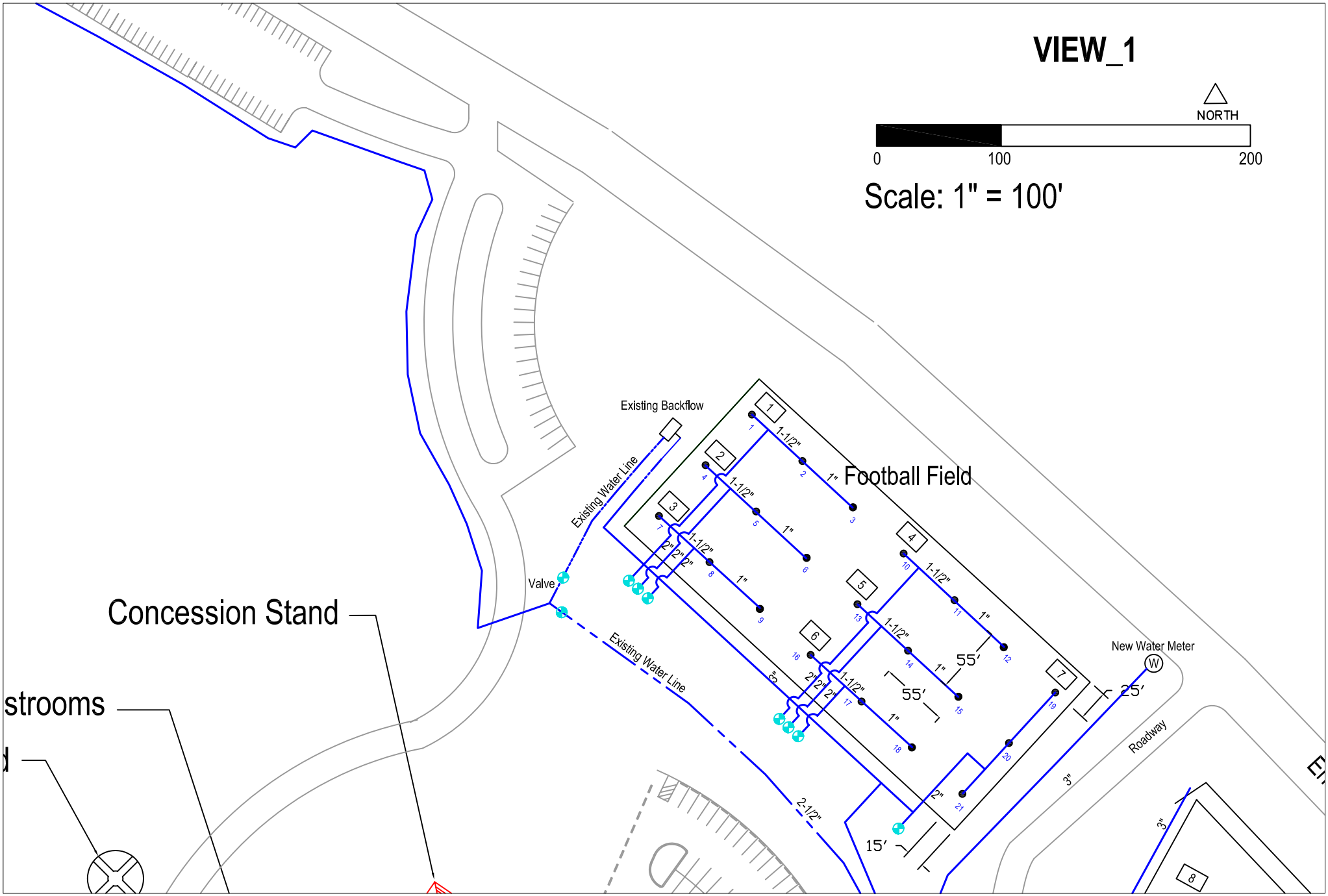
The Contractor shall be required to perform two (2) start-ups and check-outs of the irrigation system and two (2) complete drainages of the system at the request of the Owner to train the Owner's Maintenance Staff. These operations shall include: (1) drain down and start up after (2) weeks operation, and the first season's fall drainage and spring start-up.

LAYOUT DRAWINGS AND EQUIPMENT LISTINGS

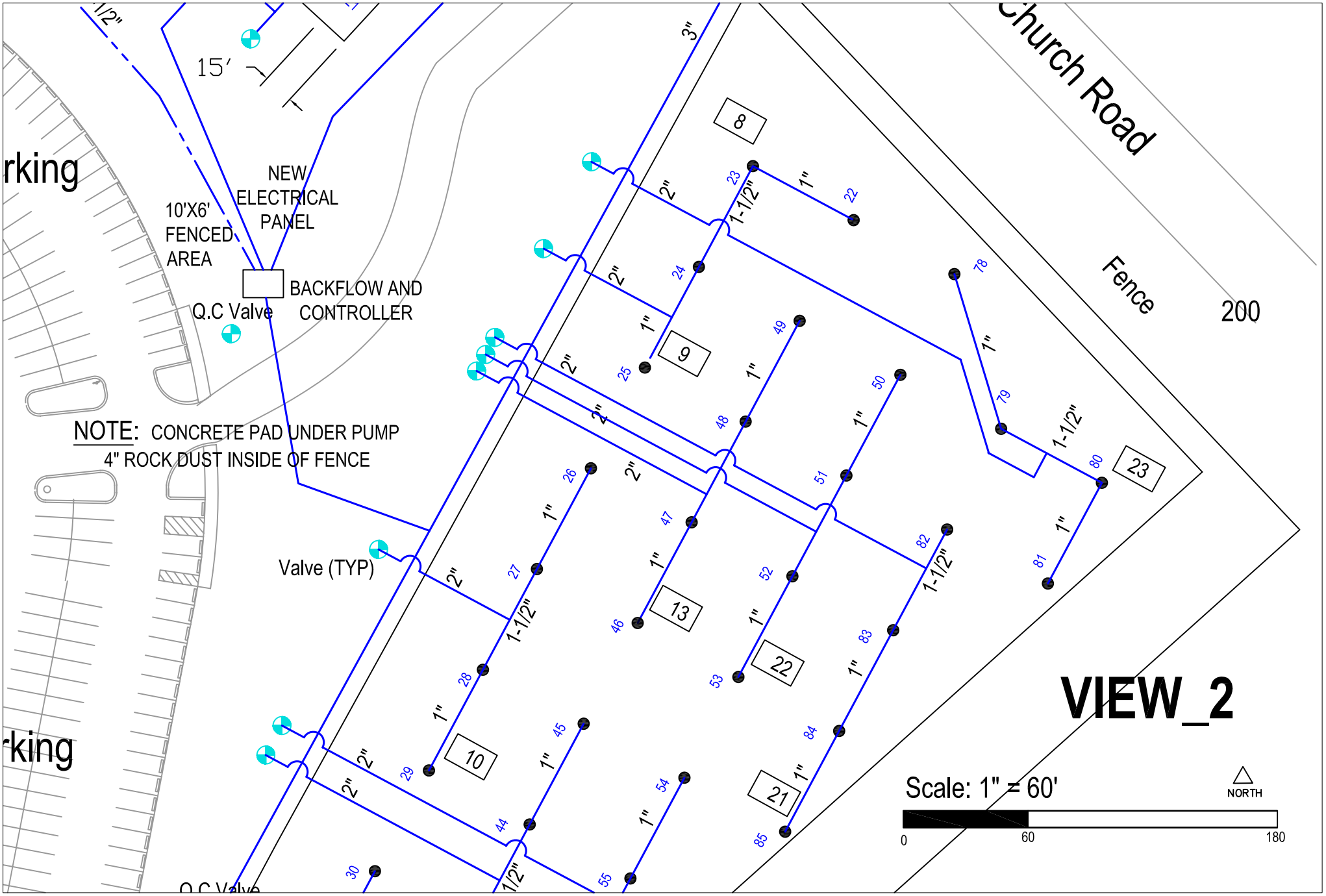
Approximate field sizes, water service locations and controller locations are shown on the following drawings. The pattern for installation of irrigation heads is shown and should be located on existing field layout as dimensioned on the drawings.

Controller and pump location shall be determined prior to commencement of work, approximate location is shown on the drawings.

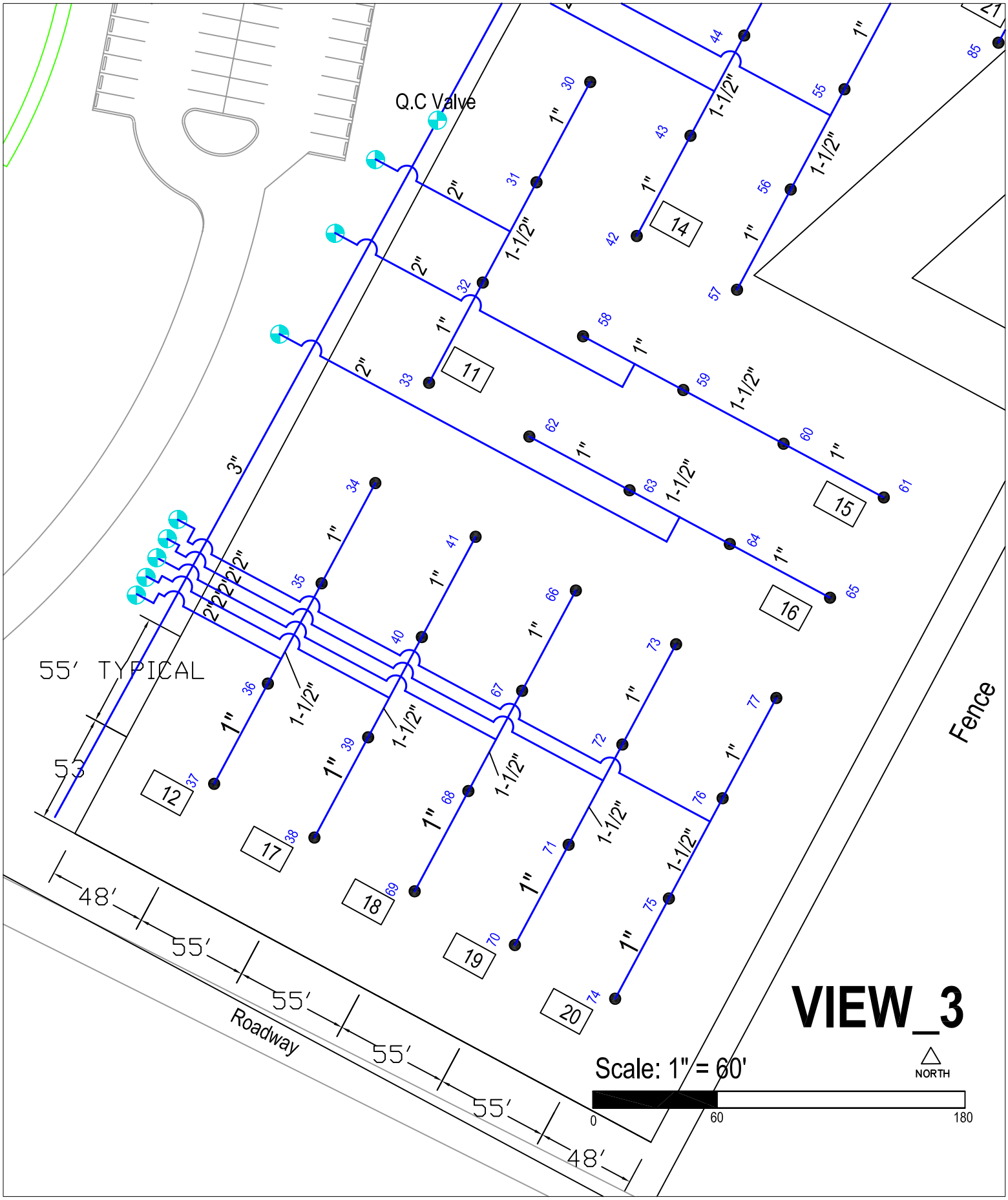
Chesterfield County Parks & Rec / Irrigation / Dodd Park

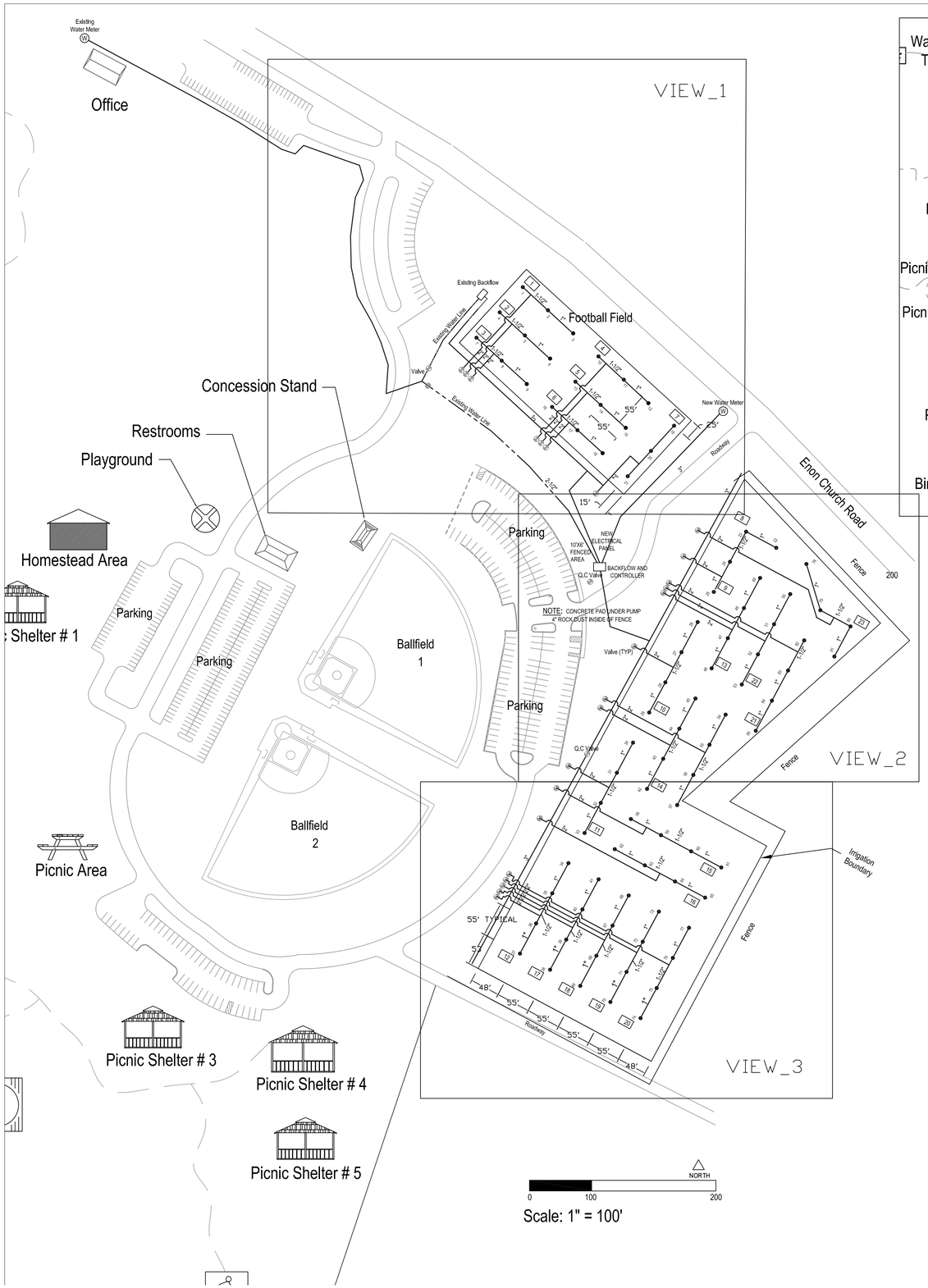


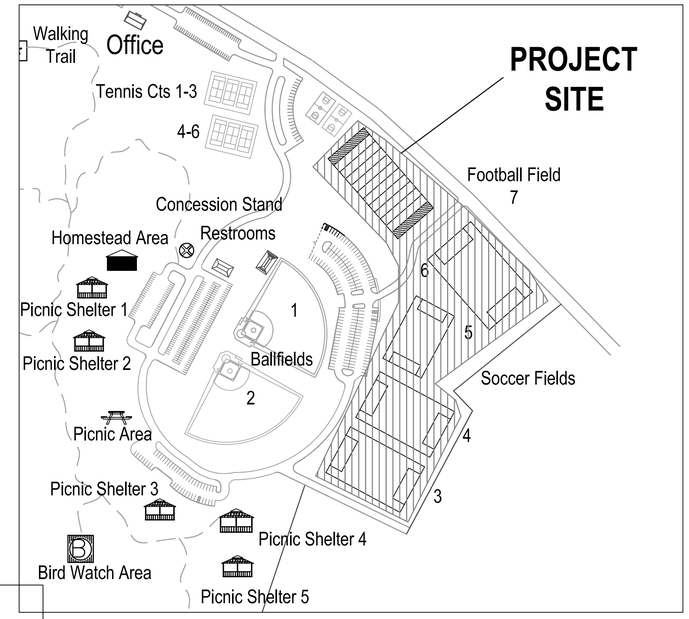
Chesterfield County Parks & Rec / Irrigation / Dodd Park



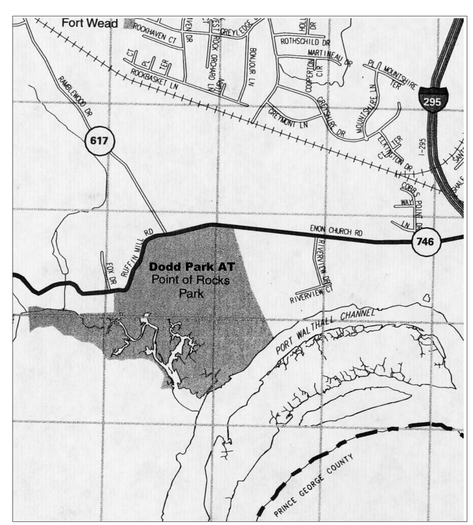
Chesterfield County Parks & Rec / Irrigation / Dodd Park







DODD PARK PARTIAL PLAN



LOCATION MAP - NO SCALE

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NOTES:

1. ALL PIPE ON FIELD TO BE MINIMUM OF 1".
2. CONTROLLERS SHALL BE 48 STATION RADIO CONTROL MODEL No. SSAK48 PS16NS4 SUPPLIED WITH SENTINEL. HAND HELD CONTROL MODEL No. SHHR 1 SENSOR, MODEL 1 HIR22QB.
CC - M - 24 FIELD LOCATED IN GENERAL LOCATION AS SHOWN ON THE DRAWING.
3.SYSTEM DIAGRAM TARGETS 60 PSI AT HEADS USING SINGLE PHASE/120-240 VOLT BOOSTER PUMP.
4. ALL IRRIGATION HEADS SHALL BE TORO 640 - 02 - 41 CHECKOMATIC NOZZLE FOR 11 GPM PER HEAD; MAX [3] HEADS PER ZONE=33 GPM PER ZONE.
5. HEADS SPACED AT 55' ON CENTER BOTH DIRECTIONS.
6. PROVIDE PARTIAL HEADS AS SHOWN ON THE DRAWINGS. ROTATE FOR MAXIMUM COVERAGE.

ELECTRICAL POWER SOURCE FOR CONTROLLER IS FROM EXISTING CONCESSION. TO BE INSTALLED BY OTHERS. SERVICE WILL BE [1] 15 AMP CIRCUIT FOR CONTROLLER AND [1] 30 AMP CIRCUIT FOR PUMP; SINGLE PHASE 120/240 VOLT TO JUNCTION BOX.LOCATE CONTROLLER AS SHOWN ON THE DRAWINGS.

NEW WATER SERVICE FROM ENON CHURCH ROAD TO INCLUDE TAP, CUTOFF VALVES, 1-1/2" METER AND BACK FLOW PREVENTER TO BE INSTALLED BY OTHERS. ROUTE NEW WATER SERVICE EXISTING FOOTBALL FIELD AND ROADWAY. OWNER TO MARK IN THE FIELD PRIOR TO TRENCHING. OWNER TO MAKE APPLICATION TO UTILITIES DEPARTMENT FOR NEW SERVICE, CONTRACTOR TO COORDINATE INSTALLATION WITH UTILITIES

ZONES

1. 1. [360] 2. [360] 3. [360]
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DODD PARK (Point of Rocks)
201 ENON CHURCH ROAD
CHESTER, VA 23831
SOCCER / FOOTBALL FIELDS

DATE 1/20/04

SHEET 1 OF 1

CHESTERFIELD COUNTY PARKS AND RECREATION
DESIGN AND CONSTRUCTION

REVISIONS

NOTE

P.O.BOX 40
Chesterfield,
Virginia 23832

SHEET TITLE

IRRIGATION LAYOUTS

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