

**GROVE CITY, OHIO COUNCIL
LEGISLATIVE AGENDA**

September 08, 2015

6:30 Caucus

7:00 – Reg. Meet.

Presentations:

FINANCE: Mr. Bennett

Ordinance C-53-15

Provide for the Issuance and Sale of Bonds in the Maximum Principal Amount of \$5,200,000.00 for the purpose of paying the costs of providing for the Construction of a Multi-Family Housing Complex and providing for all related site improvements, together with all necessary appurtenances thereto, all in support of Economic Development, Creating or Preserving Jobs and Employment Opportunities and Providing Housing within the City. Second reading and public hearing.

Ordinance C-54-15

Appropriate \$4,400,000.00 from the General Fund for the Current Expense of entering into a Development Agreement with Pizzuti. Second reading and public hearing.

Ordinance C-60-15

Authorize the City Administrator to enter into Agreements with Time Warner Communications for Data Connectivity for Fryer Park. First reading.

Ordinance C-61-15

Authorize the City Administrator to enter into Agreements with Time Warner Communications for Data Connectivity at the Gardens at Gantz. First reading.

Ordinance C-62-15

Accept the Donation of \$100,000.00 from Laura Harper and Appropriate Same for the Youth Services Department at the New Library. First reading.

Ordinance C-63-15

Accept a Donation of \$1,250.00 from Wal-Mart and Appropriate Same for the Division of Police Crime Prevention Program. First reading.

Ordinance C-64-15

Accept a Donation of \$1,000.00 from the Columbus/Grove City Elks Lodge 37 and Appropriate Same for the Division of Police DARE Program. First reading.

Ordinance C-65-15

Appropriate \$21,677.91 from the Mayor's Court Computer Fund for the Current Expense of purchasing Computer Furniture. First reading.

Ordinance C-66-15

Authorize the City Administrator to enter into an Agreement with Mirolo Charitable Foundation and Thank them for their Donation of \$100,000.00. First reading.

Ordinance C-67-15

Authorize the City Administrator to enter into an Agreement with Mt. Carmel Health System and Thank them for their Donation of \$100,000.00. First reading.

Ordinance C-68-15

Appropriate \$60,000.00 from the Pinnacle Tax Increment Financing Fund for the Current Expense of Constructing an Entry Feature and other related improvements. First reading.

Resolution CR-50-15

Authorize a Then and Now Certificate for the payment of \$33,229.93 for Professional Services.

Resolution CR-51-15

Appoint Adam Borchers to the Audit Committee.

SAFETY: Mr. Davis

Ordinance C-55-15

Amend Various Sections of Chapter 1101 of the Codified Ordinances titled Development Standards. Second reading and public hearing.

SERVICE: Ms. Lanese

Ordinance C-56-15

Amend Part 9 of the Codified Ordinances and Enact Title 7 titled Stormwater. Second reading and public hearing.

LANDS: Ms. Klemack-McGraw

- Ordinance C-47-15 Approve a PUD-R Zoning Classification for 16+ acres located at the Southwest corner of Orders and Haughn Roads upon its Annexation to the City. Second reading and public hearing.
- Ordinance C-57-15 Approve the Plat of Claybrook Crossing, Section 6, Part 1. Second reading and public hearing.
- Ordinance C-58-15 Approve the Plat of Margie's Cove, Section 2, Part 2. Second reading and public hearing.
- Ordinance C-69-15 Authorizing the Annexation of 7.1 acres located on Orders Road from Jackson Township to the City of Grove City. First reading.
- Ordinance C-70-15 Vacate the Public Alley located between Park Street and Grove City Road. First reading.
- Resolution CR-52-15 Municipal Services that can be furnished to a 0.687 acre parcel located at 3811 Mayfair Drive upon its annexation to the City of Grove City.
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ON FILE: Minutes of: Aug. 17, 2015 - Council Meeting

Date: 07/28/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Boso
Approved: _____
Emergency: 30 Days
Current Expense: _____

No.: C-53-15
1st Reading: 08/17/15
Public Notice: 08/20/15
2nd Reading: 09/08/15
Passed: Rejected
Codified: Code No:
Passage Publication:

ORDINANCE NO. C-53-15

AN ORDINANCE PROVIDING FOR THE ISSUANCE AND SALE OF BONDS IN THE MAXIMUM PRINCIPAL AMOUNT OF \$5,200,000.00 FOR THE PURPOSE OF PAYING THE COSTS OF PROVIDING FOR THE CONSTRUCTION OF A MULTI-FAMILY HOUSING COMPLEX AND PROVIDING FOR ALL RELATED SITE IMPROVEMENTS, TOGETHER WITH ALL NECESSARY APPURTENANCES THERETO, ALL IN SUPPORT OF ECONOMIC DEVELOPMENT, CREATING OR PRESERVING JOBS AND EMPLOYMENT OPPORTUNITIES AND PROVIDING HOUSING WITHIN THE CITY

WHEREAS, the City of Grove City, Ohio is authorized by virtue of the laws of the State of Ohio, including, without limitation, Section 13 of Article VIII, Ohio Constitution and Chapter 165, Ohio Revised Code (the “*Act*”), among other things, to issue bonds or notes to acquire, construct, furnish, equip or improve a “project” as defined in Section 165.01, Ohio Revised Code, for the purpose of creating or preserving jobs and employment opportunities and improving the economic welfare of the people of the City and of the State of Ohio; and

WHEREAS, the City is also authorized by virtue of the laws of the State of Ohio, including, without limitation, Section 16 of Article VIII, Ohio Constitution, and the Act, among other things, to make provision for or assist in the provision of housing for individuals and families; and

WHEREAS, the City has heretofore determined to facilitate the construction of a multifamily housing complex and providing for all related site improvements, together with all necessary appurtenances thereto, all in support of economic development, creating or preserving jobs and employment opportunities and providing housing within the City to be proximately located in the Town Center area of the City; and

WHEREAS, the Grove City Community Improvement Corporation, as the City’s designated community improvement corporation, has approved the construction of the Project as a project in accordance with Chapter 165, Ohio Revised Code, and the plan for the industrial, commercial, distribution and research development of the City; and

WHEREAS, to expedite and facilitate the economic development of the various parcels, the City has determined to construct the Project and this Council finds and determines that the City should issue nontax revenue bonds of the City (the “*Bonds*”), for the purpose of paying the costs of providing for the Project;

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. Definitions and Interpretation. In addition to the words and terms elsewhere defined in this Ordinance, unless the context or use clearly indicates another or different meaning or intent:

“*Act*” means the laws of the State of Ohio, including, without limitation, Section 13 of Article VIII, Ohio Constitution and Chapter 165, Ohio Revised Code.

“*Additional Bonds*” means any additional bonds or bond anticipation notes of the City which may be subsequently issued and payable solely from the Nontax Revenues on parity with the Bonds.

“Authorized Denominations” means the denomination of \$5,000 or any integral multiple in excess thereof.

“Bond Proceedings” means, collectively, this Ordinance, the Certificate of Award, the Continuing Disclosure Agreement, the Purchase Agreement, the Registrar Agreement and such other proceedings of the City, including the Bonds, that provide collectively for, among other things, the rights of holders and beneficial owners of the Bonds.

“Bond Register” means all books and records necessary for the registration, exchange and transfer of Bonds as provided in Section 6.

“Bond Registrar” means a bank or trust company authorized to do business in the State of Ohio and designated by the Director of Finance in the Certificate of Award pursuant to Section 5 as the initial authenticating agent, bond registrar, transfer agent and paying agent for the Bonds under the Registrar Agreement and until a successor Bond Registrar shall have become such pursuant to the provisions of the Registrar Agreement and, thereafter, *“Bond Registrar”* shall mean the successor Bond Registrar.

“Bonds” means, collectively, the Serial Bonds and the Term Bonds, each as is designated as such in the Certificate of Award.

“Book entry form” or *“book entry system”* means a form or system under which (a) the ownership of beneficial interests in the Bonds and the principal of and interest and any premium on the Bonds may be transferred only through a book entry, and (b) physical Bond certificates in fully registered form are issued by the City and payable only to a Depository or its nominee as registered owner, with the certificates deposited with and *“immobilized”* in the custody of the Depository or its designated agent for that purpose. The book entry maintained by others than the City is the record that identifies the owners of beneficial interests in the Bonds and that principal and interest.

“Certificate of Award” means the certificate authorized by Section 7, to be executed by the Director of Finance, setting forth and determining those terms or other matters pertaining to the Bonds and their issuance, sale and delivery as this Ordinance requires or authorizes to be set forth or determined therein.

“Closing Date” means the date of physical delivery of, and payment of the purchase price for, the Bonds.

“Continuing Disclosure Agreement” means the Continuing Disclosure Agreement which shall constitute the continuing disclosure agreement made by the City for the benefit of the holders and beneficial owners of the Bonds in accordance with the Rule, as it may be modified from the form on file with the Clerk of Council and executed by the Mayor and the Director of Finance, all in accordance with Section 9(c).

“Depository” means any securities depository that is a clearing agency registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934, operating and maintaining, with its Participants or otherwise, a book entry system to record ownership of beneficial interests in Bonds or the principal of and interest and any premium on the Bonds, and to effect transfers of Bonds, in book entry form, and includes and means initially DTC.

“Director of Finance” means the Director of Finance of the City.

“Economic Development Bond Retirement Fund” means the Economic Development Bond Retirement Fund created pursuant to Section 8.

“Financing Costs” shall have the meaning given in Section 133.01 of the Ohio Revised Code.

“Interest Payment Dates” means June 1 and December 1 of each year that the Bonds are outstanding, commencing on the date specified in the Certificate of Award.

“Mandatory Redemption Date” shall have the meaning set forth in Section 4(b).

“Mandatory Sinking Fund Redemption Requirements” shall have the meaning set forth in Section 4(e)(i).

“Mayor” means the Mayor of the City.

“Nontax Revenues” means all moneys of the City which are not moneys raised by taxation, to the extent available for such purposes, including, but not limited to the following: (a) grants from the United States of America and the State of Ohio; (b) payments in lieu of taxes now or hereafter authorized by State statute; (c) fines and forfeitures which are deposited in the City’s General Fund; (d) fees deposited in the City’s General Fund from properly imposed licenses and permits; (e) investment earnings on the City’s General Fund and which are credited to the City’s General Fund; (f) investment earnings of other funds of the City that are credited to the City’s General Fund; (g) proceeds from the sale of assets which are deposited in the City’s General Fund; (h) rental income which is deposited in the City’s General Fund; (i) gifts and donations; and (j) proceeds from the sale of any portion of the Project.

“Original Purchaser” means the purchaser of the Bonds specified in the Certificate of Award.

“Participant” means any participant contracting with a Depository under a book entry system and includes securities brokers and dealers, banks and trust companies, and clearing corporations.

“Payment Date” means, as the case may be, an Interest Payment Date and/or a Principal Payment Date.

“Principal Payment Dates” means December 1 of any year as determined by the Director of Finance in the Certificate of Award in such manner as to be in the best interest of and financially advantageous to the City; *provided* that in no case shall the final Principal Payment Date of the Bonds exceed thirty (30) years from the Closing Date, which determination shall be made by the Director of Finance in the Certificate of Award.

“Purchase Agreement” means the Bond Purchase Agreement between the City and the Original Purchaser, as it may be modified from the form on file with the Clerk of Council and executed by the Mayor and the Director of Finance, all in accordance with Section 7.

“Registrar Agreement” means the Bond Registrar Agreement between the City and the Bond Registrar, as it may be modified from the form on file with the Clerk of Council and executed by the Mayor and the Director of Finance, all in accordance with Section 5.

“Rule” means Rule 15c2-12 prescribed by the SEC pursuant to the Securities Exchange Act of 1934.

“SEC” means the Securities and Exchange Commission.

“Serial Bonds” means those Bonds designated as such and maturing on the dates set forth in the Certificate of Award, bearing interest payable on each Interest Payment Date and not subject to mandatory sinking fund redemption.

“Term Bonds” means those Bonds designated as such and maturing on the date or dates set forth in the Certificate of Award, bearing interest payable on each Interest Payment Date and subject to mandatory sinking fund redemption.

Capitalized terms not otherwise defined in this Ordinance have the meanings assigned to them in the Act. The captions and headings in this Ordinance are solely for convenience of reference and in no way define,

limit or describe the scope or intent of any Sections, subsections, paragraphs, subparagraphs or clauses hereof. Reference to a Section means a section of this Ordinance unless otherwise indicated.

SECTION 2. Findings. This Council hereby finds and determines that the Project is a "project" as defined in the Act and is consistent with the purposes of Sections 13 and 16 of Article VIII, Ohio Constitution; that the utilization of the Project is in furtherance of the purposes of the Act and will benefit the people of the City and of the State by creating or preserving jobs and employment opportunities and improving the economic welfare of the people of the City and of the State and providing housing; and that the amount necessary to finance the Project will require the issuance, sale and delivery of the Bonds, which Bonds shall be payable and secured as provided herein.

SECTION 3. Authorized Principal Amount and Purpose; Application of Proceeds. This Council determines that it is necessary and in the best interest of the City to issue bonds of this City in the maximum principal amount of \$5,200,000 (the "*Bonds*") for the purpose of paying the costs of providing for the construction of a multifamily housing complex and providing for all related site improvements, together with all necessary appurtenances thereto, all in support of economic development, creating or preserving jobs and employment opportunities and providing housing within the City (the "*Project*"). The Bonds shall be issued pursuant to the Act, the Charter of the City, this Ordinance and the Certificate of Award.

The principal amount of Bonds to be issued shall not exceed the maximum principal amount specified in this Section and shall be an amount determined by the Director of Finance in the Certificate of Award to be the principal amount of Bonds that is required to be issued at this time for the purpose stated in this Section, taking into account the costs of constructing the Project, the estimates of the Financing Costs and the interest rates on the Bonds.

The proceeds from the sale of the Bonds received by the City (or withheld by the Original Purchaser on behalf of the City) shall be paid into the proper fund or funds, and those proceeds are hereby appropriated and shall be used for the purpose for which the Bonds are being issued, including without limitation but only to the extent not paid by others, the payment of the costs of issuing and servicing the Bonds, printing and delivery of the Bonds, legal services including obtaining the approving legal opinion of bond counsel, fees and expenses of any municipal advisor, paying agent and rating agency, any fees or premiums relating to municipal bond insurance or other security arrangements determined necessary by the Director of Finance, and all other Financing Costs and costs incurred incidental to those purposes. The Certificate of Award and the Purchase Agreement may authorize the Original Purchaser to withhold certain proceeds from the purchase price of the Bonds to provide for the payment of Financing Costs related to the Bonds on behalf of the City. Any portion of those proceeds received by the City representing premium (after payment of any Financing Costs identified in the Certificate of Award) or accrued interest shall be paid into the Economic Development Bond Retirement Fund.

SECTION 4. Denominations; Dating; Principal and Interest Payment and Redemption Provisions. The Bonds shall be issued in one lot and only as fully registered bonds, in Authorized Denominations, but in no case as to a particular maturity date exceeding the principal amount maturing on that date. The Bonds shall be dated as provided in the Certificate of Award, *provided* that their dated date shall not be more than sixty (60) days prior to the Closing Date.

(a) **Interest Rates and Payment Dates.** The Bonds shall bear interest at the rate or rates per year (computed on the basis of a 360-day year consisting of twelve 30-day months) as shall be determined by the Director of Finance, subject to subsection (c) of this Section, in the Certificate of Award. Interest on the Bonds shall be payable at such rate or rates on the Interest Payment Dates until the principal amount has been paid or provided for. The Bonds shall bear interest from the most recent date to which interest has been paid or provided for or, if no interest has been paid or provided for, from their date.

(b) **Principal Payment Schedule.** The Bonds shall mature or be payable pursuant to Mandatory Sinking Fund Redemption Requirements on the Principal Payment Dates in principal amounts as shall be

determined by the Director of Finance, subject to subsection (c) of this Section, in the Certificate of Award, which determination shall be in the best interest of and financially advantageous to the City.

Consistent with the foregoing and in accordance with the determination of the best interest of and financial advantages to the City, the Director of Finance shall specify in the Certificate of Award (i) the aggregate principal amount of Bonds to be issued as Serial Bonds, the Principal Payment Date or Dates on which those Bonds shall be stated to mature and the principal amount thereof that shall be stated to mature on each such Principal Payment Date and (ii) the aggregate principal amount of Bonds to be issued as Term Bonds, the Principal Payment Date or Dates on which those Bonds shall be stated to mature, the principal amount thereof that shall be stated to mature on each such Principal Payment Date, the Principal Payment Date or Dates on which Term Bonds shall be subject to mandatory sinking fund redemption (each a "*Mandatory Redemption Date*") and the principal amount thereof that shall be payable pursuant to Mandatory Sinking Fund Redemption Requirements on each Mandatory Redemption Date.

(c) Conditions for Establishment of Interest Rates and Principal Payment Dates and Amounts. The true interest cost for the Bonds determined by taking into account the respective principal amounts of the Bonds and terms to maturity or Mandatory Sinking Fund Redemption Requirements of those principal amounts of Bonds shall not exceed 7.00%.

(d) Payment of Debt Charges. The debt charges on the Bonds shall be payable in lawful money of the United States of America without deduction for the services of the Bond Registrar as paying agent. Principal of and any premium on the Bonds shall be payable when due upon presentation and surrender of the Bonds at the designated corporate trust office of the Bond Registrar. Interest on a Bond shall be paid on each Interest Payment Date by check or draft mailed to the person in whose name the Bond was registered, and to that person's address appearing, on the Bond Register at the close of business on the 15th day of the calendar month next preceding that Interest Payment Date. Notwithstanding the foregoing, if and so long as the Bonds are issued in a book entry system, principal of and interest and any premium on the Bonds shall be payable in the manner provided in any agreement entered into by the Director of Finance, in the name and on behalf of the City, in connection with the book entry system.

(e) Redemption Provisions. The Bonds shall be subject to redemption prior to stated maturity as follows:

(i) Mandatory Sinking Fund Redemption of Term Bonds. If any of the Bonds are issued as Term Bonds, the Term Bonds shall be subject to mandatory redemption in part by lot and be redeemed pursuant to mandatory sinking fund redemption requirements, at a redemption price of 100% of the principal amount redeemed, plus accrued interest to the redemption date, on the applicable Mandatory Redemption Dates and in the principal amounts payable on those Dates, for which provision is made in the Certificate of Award (such Dates and amounts being referred to as the "*Mandatory Sinking Fund Redemption Requirements*").

The aggregate of the moneys to be deposited with the Bond Registrar for payment of principal of and interest on any Term Bonds on each Mandatory Redemption Date shall include an amount sufficient to redeem on that Date the principal amount of Term Bonds payable on that Date pursuant to the Mandatory Sinking Fund Redemption Requirements (less the amount of any credit as hereinafter provided).

The City shall have the option to deliver to the Bond Registrar for cancellation Term Bonds in any aggregate principal amount and to receive a credit against the then current or any subsequent Mandatory Sinking Fund Redemption Requirement (and corresponding mandatory redemption obligation) of the City, as specified by the Director of Finance, for Term Bonds stated to mature on the same Principal Payment Date and bearing interest at the same rate as the Term Bonds so delivered. That option shall be exercised by the City on or before the 45th day preceding any Mandatory Redemption Date with respect to which the City wishes to obtain a credit, by furnishing the Bond Registrar a

certificate, signed by the Director of Finance, setting forth the extent of the credit to be applied with respect to the then current or any subsequent Mandatory Sinking Fund Redemption Requirement for Term Bonds stated to mature on the same Principal Payment Date and bearing interest at the same rate as the Term Bonds so delivered. If the certificate is not timely furnished to the Bond Registrar, the current Mandatory Sinking Fund Redemption Requirement (and corresponding mandatory redemption obligation) shall not be reduced. A credit against the then current or any subsequent Mandatory Sinking Fund Redemption Requirement (and corresponding mandatory redemption obligation), as specified by the Director of Finance, also shall be received by the City for any Term Bonds which prior thereto have been redeemed (other than through the operation of the applicable Mandatory Sinking Fund Redemption Requirements) or purchased for cancellation and canceled by the Bond Registrar, to the extent not applied theretofore as a credit against any Mandatory Sinking Fund Redemption Requirement, for Term Bonds stated to mature on the same Principal Payment Date and bearing interest at the same rate as the Term Bonds so delivered, redeemed or purchased and canceled.

Each Term Bond so delivered, or previously redeemed, or purchased and canceled, shall be credited by the Bond Registrar at 100% of the principal amount thereof against the then current or subsequent Mandatory Sinking Fund Redemption Requirements (and corresponding mandatory redemption obligations), as specified by the Director of Finance, for Term Bonds stated to mature on the same Principal Payment Date and bearing interest at the same rate as the Term Bonds so delivered, redeemed or purchased and canceled.

(ii) Optional Redemption. The Bonds of the maturities and interest rates specified in the Certificate of Award (if any are so specified) shall be subject to optional redemption by and at the sole option of the City, in whole or in part in integral multiples of \$5,000, on the dates and at the redemption prices (expressed as a percentage of the principal amount to be redeemed), plus accrued interest to the redemption date, to be determined by the Director of Finance in the Certificate of Award; *provided* that the redemption price for any optional redemption date shall not be greater than 103%.

If optional redemption of Term Bonds at a redemption price exceeding 100% of the principal amount to be redeemed is to take place as of any Mandatory Redemption Date applicable to those Term Bonds, the Term Bonds, or portions thereof, to be redeemed optionally shall be selected by lot prior to the selection by lot of the Term Bonds of the same maturity (and interest rate within a maturity if applicable) to be redeemed on the same date by operation of the Mandatory Sinking Fund Redemption Requirements. Bonds to be redeemed pursuant to this paragraph shall be redeemed only upon written notice from the Director of Finance to the Bond Registrar, given upon the direction of the City by passage of an ordinance or adoption of a resolution. That notice shall specify the redemption date and the principal amount of each maturity (and interest rate within a maturity if applicable) of Bonds to be redeemed, and shall be given at least 45 days prior to the redemption date or such shorter period as shall be acceptable to the Bond Registrar.

(iii) Partial Redemption. If fewer than all of the outstanding Bonds are called for optional redemption at one time and Bonds of more than one maturity (or interest rate within a maturity if applicable) are then outstanding, the Bonds that are called shall be Bonds of the maturity or maturities and interest rate or rates selected by the City. If fewer than all of the Bonds of a single maturity (or interest rate within a maturity if applicable) are to be redeemed, the selection of Bonds of that maturity (or interest rate within a maturity if applicable) to be redeemed, or portions thereof in amounts of \$5,000 or any integral multiple thereof, shall be made by the Bond Registrar by lot in a manner determined by the Bond Registrar. In the case of a partial redemption of Bonds by lot when Bonds of denominations greater than \$5,000 are then outstanding, each \$5,000 unit of principal thereof shall be treated as if it were a separate Bond of the denomination of \$5,000. If it is determined that one or more, but not all, of the \$5,000 units of principal amount represented by a Bond are to be called for redemption, then, upon notice of redemption of a \$5,000 unit or units, the registered owner of that Bond shall surrender the Bond to the Bond Registrar (A) for payment of the redemption price of the \$5,000 unit or units of

principal amount called for redemption (including, without limitation, the interest accrued to the date fixed for redemption and any premium), and (B) for issuance, without charge to the registered owner, of a new Bond or Bonds of any Authorized Denomination or Denominations in an aggregate principal amount equal to the unmatured and unredeemed portion of, and bearing interest at the same rate and maturing on the same date as, the Bond surrendered.

(iv) Notice of Redemption. The notice of the call for redemption of Bonds shall identify (A) by designation, letters, numbers or other distinguishing marks, the Bonds or portions thereof to be redeemed, (B) the redemption price to be paid, (C) the date fixed for redemption, and (D) the place or places where the amounts due upon redemption are payable. The notice shall be given by the Bond Registrar on behalf of the City by mailing a copy of the redemption notice by first-class mail, postage prepaid, at least 30 days prior to the date fixed for redemption, to the registered owner of each Bond subject to redemption in whole or in part at the registered owner's address shown on the Bond Register maintained by the Bond Registrar at the close of business on the 15th day preceding that mailing. Failure to receive notice by mail or any defect in that notice regarding any Bond, however, shall not affect the validity of the proceedings for the redemption of any Bond.

(v) Payment of Redeemed Bonds. In the event that notice of redemption shall have been given by the Bond Registrar to the registered owners as provided above, there shall be deposited with the Bond Registrar on or prior to the redemption date, moneys that, in addition to any other moneys available therefor and held by the Bond Registrar, will be sufficient to redeem at the redemption price thereof, plus accrued interest to the redemption date, all of the redeemable Bonds for which notice of redemption has been given. Notice having been mailed in the manner provided in the preceding paragraph hereof, the Bonds and portions thereof called for redemption shall become due and payable on the redemption date, and, subject to the provisions of Sections 4(d) and 6, upon presentation and surrender thereof at the place or places specified in that notice, shall be paid at the redemption price, plus accrued interest to the redemption date. If moneys for the redemption of all of the Bonds and portions thereof to be redeemed, together with accrued interest thereon to the redemption date, are held by the Bond Registrar on the redemption date, so as to be available therefor on that date and, if notice of redemption has been deposited in the mail as aforesaid, then from and after the redemption date those Bonds and portions thereof called for redemption shall cease to bear interest and no longer shall be considered to be outstanding. If those moneys shall not be so available on the redemption date, or that notice shall not have been deposited in the mail as aforesaid, those Bonds and portions thereof shall continue to bear interest, until they are paid, at the same rate as they would have borne had they not been called for redemption. All moneys held by the Bond Registrar for the redemption of particular Bonds shall be held in trust for the account of the registered owners thereof and shall be paid to them, respectively, upon presentation and surrender of those Bonds; *provided* that any interest earned on the moneys so held by the Bond Registrar shall be for the account of and paid to the City to the extent not required for the payment of the Bonds called for redemption.

SECTION 5. Execution and Authentication of Bonds; Appointment of Bond Registrar. The Bonds shall be signed by the Mayor and the Director of Finance, in the name of the City and in their official capacities, *provided* that either or both of those signatures may be a facsimile. The Bonds shall be issued in the Authorized Denominations and numbers as requested by the Original Purchaser and approved by the Director of Finance, shall be numbered as determined by the Director of Finance in order to distinguish each Bond from any other Bond, and shall express upon their faces the purpose, in summary terms, for which they are issued and that they are issued pursuant to the Act, the Charter of the City, this Ordinance and the Certificate of Award.

The Director of Finance is hereby authorized to designate in the Certificate of Award a bank or trust company authorized to do business in the State of Ohio to act as the initial Bond Registrar. The Mayor and the Director of Finance shall sign and deliver, in the name and on behalf of the City, the Registrar Agreement between the City and the Bond Registrar, in substantially the form as is now on file with the Clerk of Council. The Registrar Agreement is approved, together with any changes or amendments that are not inconsistent with

this Ordinance and not substantially adverse to the City and that are approved by the Mayor and the Director of Finance on behalf of the City, all of which shall be conclusively evidenced by the signing of the Registrar Agreement or amendments thereto. The Director of Finance shall provide for the payment of the services rendered and for reimbursement of expenses incurred pursuant to the Registrar Agreement, except to the extent paid or reimbursed by the Original Purchaser in accordance with the Certificate of Award and the Purchase Agreement, from the proceeds of the Bonds to the extent available and then from other money lawfully available and appropriated or to be appropriated for that purpose.

No Bond shall be valid or obligatory for any purpose or shall be entitled to any security or benefit under the Bond Proceedings unless and until the certificate of authentication printed on the Bond is signed by the Bond Registrar as authenticating agent. Authentication by the Bond Registrar shall be conclusive evidence that the Bond so authenticated has been duly issued, signed and delivered under, and is entitled to the security and benefit of, the Bond Proceedings. The certificate of authentication may be signed by any authorized officer or employee of the Bond Registrar or by any other person acting as an agent of the Bond Registrar and approved by the Director of Finance on behalf of the City. The same person need not sign the certificate of authentication on all of the Bonds.

SECTION 6. Registration; Transfer and Exchange; Book Entry System.

(a) Bond Register. So long as any of the Bonds remain outstanding, the City will cause the Bond Registrar to maintain and keep the Bond Register at its designated corporate trust office. Subject to the provisions of Sections 4(d) and 9(c), the person in whose name a Bond is registered on the Bond Register shall be regarded as the absolute owner of that Bond for all purposes of the Bond Proceedings. Payment of or on account of the debt charges on any Bond shall be made only to or upon the order of that person; neither the City nor the Bond Registrar shall be affected by any notice to the contrary, but the registration may be changed as provided in this Section. All such payments shall be valid and effectual to satisfy and discharge the City's liability upon the Bond, including interest, to the extent of the amount or amounts so paid.

(b) Transfer and Exchange. Any Bond may be exchanged for Bonds of any Authorized Denomination upon presentation and surrender at the designated corporate trust office of the Bond Registrar, together with a request for exchange signed by the registered owner or by a person legally empowered to do so in a form satisfactory to the Bond Registrar. A Bond may be transferred only on the Bond Register upon presentation and surrender of the Bond at the designated corporate trust office of the Bond Registrar together with an assignment signed by the registered owner or by a person legally empowered to do so in a form satisfactory to the Bond Registrar. Upon exchange or transfer the Bond Registrar shall complete, authenticate and deliver a new Bond or Bonds of any Authorized Denomination or Denominations requested by the owner equal in the aggregate to the unmatured principal amount of the Bond surrendered and bearing interest at the same rate and maturing on the same date.

If manual signatures on behalf of the City are required, the Bond Registrar shall undertake the exchange or transfer of Bonds only after the new Bonds are signed by the authorized officers of the City. In all cases of Bonds exchanged or transferred, the City shall sign and the Bond Registrar shall authenticate and deliver Bonds in accordance with the provisions of the Bond Proceedings. The exchange or transfer shall be without charge to the owner, except that the City and Bond Registrar may make a charge sufficient to reimburse them for any tax or other governmental charge required to be paid with respect to the exchange or transfer. The City or the Bond Registrar may require that those charges, if any, be paid before the procedure is begun for the exchange or transfer. All Bonds issued and authenticated upon any exchange or transfer shall be valid obligations of the City, evidencing the same debt, and entitled to the same security and benefit under the Bond Proceedings as the Bonds surrendered upon that exchange or transfer. Neither the City nor the Bond Registrar shall be required to make any exchange or transfer of (i) Bonds then subject to call for redemption between the 15th day preceding the mailing of notice of Bonds to be redeemed and the date of that mailing, or (ii) any Bond selected for redemption, in whole or in part.

(c) Book Entry System. Notwithstanding any other provisions of this Ordinance, if the Director of Finance determines in the Certificate of Award that it is in the best interest of and financially advantageous to the City, the Bonds may be issued in book entry form in accordance with the following provisions of this Section.

The Bonds may be issued to a Depository for use in a book entry system and, if and as long as a book entry system is utilized: (i) the Bonds may be issued in the form of a single, fully registered Bond representing each maturity, and, if applicable, each interest rate within a maturity, and registered in the name of the Depository or its nominee, as registered owner, and immobilized in the custody of the Depository or its designated agent for that purpose, which may be the Bond Registrar; (ii) the beneficial owners of Bonds in book entry form shall have no right to receive Bonds in the form of physical securities or certificates; (iii) ownership of beneficial interests in book entry form shall be shown by book entry on the system maintained and operated by the Depository and its Participants, and transfers of the ownership of beneficial interests shall be made only by book entry by the Depository and its Participants; and (iv) the Bonds as such shall not be transferable or exchangeable, except for transfer to another Depository or to another nominee of a Depository, without further action by the City.

If any Depository determines not to continue to act as a Depository for the Bonds for use in a book entry system, the Director of Finance may attempt to establish a securities depository/book entry relationship with another qualified Depository. If the Director of Finance does not or is unable to do so, the Director of Finance, after making provision for notification of the beneficial owners by the then Depository and any other arrangements deemed necessary, shall permit withdrawal of the Bonds from the Depository, and shall cause Bond certificates in registered form and Authorized Denominations to be authenticated by the Bond Registrar and delivered to the assigns of the Depository or its nominee, all at the cost and expense (including any costs of printing), if the event is not the result of City action or inaction, of those persons requesting such issuance.

The Director of Finance is hereby authorized and directed, to the extent necessary or required, to enter into any agreements, in the name and on behalf of the City that the Director of Finance determines to be necessary in connection with a book entry system for the Bonds.

SECTION 7. Sale of the Bonds to the Original Purchaser. The Director of Finance is authorized to sell the Bonds at private sale to the Original Purchaser at a purchase price, not less than 97% of the aggregate principal amount thereof, as shall be determined by the Director of Finance in the Certificate of Award, plus accrued interest (if any) on the Bonds from their date to the Closing Date, and shall be awarded by the Director of Finance with and upon such other terms as are required or authorized by this Ordinance to be specified in the Certificate of Award, in accordance with law, and the provisions of this Ordinance and the Purchase Agreement.

The Director of Finance shall sign and deliver the Certificate of Award and shall cause the Bonds to be prepared and signed and delivered, together with a true transcript of proceedings with reference to the issuance of the Bonds, to the Original Purchaser upon payment of the purchase price.

The Mayor and the Director of Finance shall sign and deliver, in the name and on behalf of the City, the Purchase Agreement between the City and the Original Purchaser, in substantially the form as is now on file with the Clerk of Council, providing for the sale to, and the purchase by, the Original Purchaser of the Bonds. The Purchase Agreement is approved, together with any changes or amendments that are not inconsistent with this Ordinance and not substantially adverse to the City and that are approved by the Mayor and the Director of Finance on behalf of the City, all of which shall be conclusively evidenced by the signing of the Purchase Agreement or amendments thereto.

The Mayor, the Director of Finance, the Director of Law, the Clerk of Council and other City officials, as appropriate, each are authorized and directed to sign any transcript certificates, financial statements and other documents and instruments and to take such actions as are necessary or appropriate to consummate the transactions contemplated by this Ordinance. The actions of the Mayor, the Director of Finance, the Director of

Law, the Clerk of Council or other City officials, as appropriate, in doing any and all acts necessary in connection with the issuance and sale of the Bonds are hereby ratified and confirmed.

SECTION 8. Security for and Covenants Relating to Bonds.

(a) The Bonds and any Additional Bonds that may be issued hereafter on a parity therewith, are special obligations of the City, and the principal and interest on the Bonds are payable solely from, and such payment is secured by a pledge of and lien on, those Nontax Revenues established by and as provided in this Ordinance which are on deposit in the Economic Development Bond Retirement Fund, as described below.

There is hereby created by the City a separate fund named the Economic Development Bond Retirement Fund (the "*Economic Development Bond Retirement Fund*") into which Nontax Revenues shall be deposited in accordance with the following provisions.

The City hereby covenants and agrees that on or before each Payment Date it shall deposit in the Economic Development Bond Retirement Fund from Nontax Revenues selected by the City an amount equal to the amount of principal and interest due on the Bonds on that Payment Date, less, in the discretion of the City, any interest earnings or other moneys accumulated in the Economic Development Bond Retirement Fund which have not theretofore been used as a credit against a prior payment obligation. Moneys in the Economic Development Bond Retirement Fund shall be used solely and exclusively to pay principal and interest on the Bonds and any hereafter designated Additional Bonds when due.

The City hereby covenants and agrees that so long as Bonds are outstanding, it will appropriate and maintain sufficient Nontax Revenues each year to make each payment due under this Section and to pay principal and interest when due; *provided, however*, the payments due hereunder and under the Bonds are payable solely from Nontax Revenues, which Nontax Revenues are hereby selected by the City pursuant to Section 165.12, Ohio Revised Code, as moneys that are not raised by taxation. The Bonds are not secured by an obligation or pledge of any moneys raised by taxation. The Bonds do not and shall not represent or constitute a debt or pledge of the faith or credit or taxing power of the City, and the owners of the Bonds have no right to have taxes levied by the City for the payment of principal and interest on the Bonds.

Nothing herein shall be construed as requiring the City to use or apply to the payment of principal and interest on the Bonds any funds or revenues from any source other than Nontax Revenues. Nothing herein, however, shall be deemed to prohibit the City, of its own volition, from using, to the extent that it is authorized by law to do so, any other resources for the fulfillment of any of the terms, conditions or obligations of this Ordinance or of the Bonds.

(b) The City will at all times faithfully observe and perform all agreements, covenants, undertakings, stipulations and provisions to be performed on its part under this Ordinance and the Bonds and under all proceedings of this Council pertaining thereto. The City represents that (i) it is, and upon delivery of the Bonds covenants that it will be, duly authorized by the Constitution and laws of the State including particularly and without limitation the Act, to issue the Bonds and to provide the security for payment of the debt service charges in the manner and to the extent set forth herein and in the Bonds; (ii) all actions on its part for the issuance of the Bonds have been or will be taken duly and effectively; and (iii) the Bonds will be valid and enforceable special obligations of the City according to their terms. Each obligation of the City required to be undertaken pursuant to this Ordinance and the Bonds is binding upon the City, and upon each officer or employee of the City as may from time to time have the authority under law to take any action on behalf of the City as may be necessary to perform all or any part of such obligation, as a duty of the City and of each of those officers and employee resulting from an office, trust or station within the meaning of Section 2731.01, Ohio Revised Code, providing for enforcement by writ of mandamus.

(c) All books and documents in the City's possession relating to the Nontax Revenues shall be open at all times during the City's regular business hours to inspection by such accountants or other agents of the owners of the Bonds as the owners may from time to time designate.

(d) The Clerk of Council, or another appropriate officer of the City, shall furnish to the Original Purchaser a true transcript of proceedings, certified by that officer, of all proceedings had with reference to the issuance of the Bonds along with such information from the records as is necessary to determine the regularity and validity of the issuance of the Bonds.

SECTION 9. Official Statement, Rating, Bond Insurance, Continuing Disclosure and Financing Costs.

(a) Primary Offering Disclosure -- Official Statement. The Preliminary Official Statement of the City relating to the Bonds, substantially in the form now on file with the Clerk of Council, is approved. The Mayor and the Director of Finance are each authorized and directed, on behalf of the City and in their official capacities, to (i) prepare or cause to be prepared, and make or authorize modifications, completions or changes of or supplements to, a disclosure document in the form of an official statement relating to the original issuance of the Bonds, (ii) determine, and to certify or otherwise represent, when the official statement is to be "deemed final" (except for permitted omissions) by the City as of its date or is a final official statement for purposes of paragraph (b) of the Rule, (iii) use and distribute, or authorize the use and distribution of those official statements and any supplements thereto in connection with the original issuance of the Bonds, and (iv) complete and sign those official statements and any supplements thereto as so approved, together with such certificates, statements or other documents in connection with the finality, accuracy and completeness of those official statements and any supplements, as they may deem necessary or appropriate.

(b) Application for Rating or Bond Insurance. If, in the judgment of the Director of Finance, the filing of an application for (i) a rating on the Bonds by one or more nationally recognized rating agencies, or (ii) a policy of insurance from a company or companies to better assure the payment of principal of and interest on the Bonds, is in the best interest of and financially advantageous to this City, the Director of Finance is authorized to prepare and submit those applications, to provide to each such agency or company such information as may be required for the purpose, and to provide further for the payment of the cost of obtaining each such rating or policy, except to the extent otherwise paid in accordance with the Purchase Agreement, from the proceeds of the Bonds to the extent available and otherwise from any other funds lawfully available and that are appropriated or shall be appropriated for that purpose. The Director of Finance is hereby authorized, to the extent necessary or required, to enter into any agreements, in the name of and on behalf of the City, that the Director of Finance determines to be necessary in connection with the obtaining of that bond insurance.

(c) Agreement to Provide Continuing Disclosure. For the benefit of the holders and beneficial owners from time to time of the Bonds, the City agrees to provide or cause to be provided such financial information and operating data, audited financial statements and notices of the occurrence of certain events, in such manner as may be required for purposes of the Rule. The Mayor and the Director of Finance are each authorized and directed to complete, sign and deliver the Continuing Disclosure Agreement, in the name and on behalf of the City, in substantially the form as is now on file with the Clerk of Council. The Continuing Disclosure Agreement is approved, together with any changes or amendments that are not inconsistent with this Ordinance and not substantially adverse to the City and that are approved by the Mayor and the Director of Finance on behalf of the City, all of which shall be conclusively evidenced by the signing of the Continuing Disclosure Agreement or amendments thereto.

The Director of Finance is further authorized and directed to establish procedures in order to ensure compliance by the City with its Continuing Disclosure Agreement, including timely provision of information and notices as described above. Prior to making any filing required under the Rule, the Director of Finance shall consult with and obtain legal advice from, as appropriate, the Director of Law and bond or other qualified independent special counsel selected by the City. The Director of Finance, acting in the name and on behalf of the City, shall be entitled to rely upon any such legal advice in determining whether a filing should be made. The performance by the City of its Continuing Disclosure Agreement shall be subject to the annual appropriation of any funds that may be necessary to perform it.

(d) Financing Costs. The expenditure of the amounts necessary to pay any Financing Costs in connection with the Bonds, to the extent not paid by the Original Purchaser in accordance with the Purchase Agreement, is authorized and approved, and the Director of Finance is authorized to provide for the payment of any such amounts and costs from the proceeds of the Bonds to the extent available and otherwise from any other funds lawfully available that are appropriated or shall be appropriated for that purpose.

SECTION 10. Additional Bonds. The City shall have the right from time to time to issue Additional Bonds on a parity with the Bonds, which Additional Bonds shall be payable solely from the Nontax Revenues, and such payment shall be secured by a pledge of and a lien on the Nontax Revenues as provided by the Act and by an ordinance passed by this Council authorizing the issuance of those Additional Bonds.

Before any Additional Bonds are issued, the City shall be required to furnish a certificate of the Director of Finance showing that the aggregate amount of Nontax Revenues received during the fiscal year immediately preceding the issuance of those Additional Bonds is at least equal to 300% of the largest amount required to be paid in any succeeding calendar year to meet interest and principal maturities of the Bonds and any Additional Bonds to be outstanding immediately after the issuance of such Additional Bonds, or in the case of the issuance of notes issued in anticipation of Additional Bonds, the largest amount required to be paid in any succeeding calendar year to meet the estimated interest and principal maturities of those Additional Bonds anticipated.

The proceeds of any sale of Additional Bonds shall be allocated in the manner provided in the ordinance authorizing their issuance. Junior lien or other subordinate bonds payable from the Nontax Revenues may be issued without limitation.

The Additional Bonds shall bear such designation as may be necessary to distinguish them from the Bonds or other Additional Bonds having different provisions and shall have maturities, interest rates, interest payment dates, redemption provisions, denominations and other provisions as provided in the ordinances hereafter adopted providing for the issuance of the Additional Bonds; *provided, however*, that those terms and provisions shall not be inconsistent with this Ordinance to the extent it governs the issuance and terms of Additional Bonds.

SECTION 11. Reimbursement Allocation. This Council hereby declares its official intent to reimburse prior expenditures of the City, incurred prior to the issuance and sale of the Bonds, related to the Project or portions thereof to be financed by the Bonds.

SECTION 12. Bond Counsel. The legal services of the law firm of Squire Patton Boggs (US) LLP are hereby retained. Those legal services shall be in the nature of legal advice and recommendations as to the documents and the proceedings in connection with the authorization, sale and issuance of the Bonds and rendering at delivery related legal opinions. In providing those legal services, as an independent contractor and in an attorney-client relationship, that firm shall not exercise any administrative discretion on behalf of this City in the formulation of public policy, expenditure of public funds, enforcement of laws, rules and regulations of the State, any county or municipal corporation or of this City, or the execution of public trusts. For those legal services that firm shall be paid just and reasonable compensation and shall be reimbursed for actual out-of-pocket expenses incurred in providing those legal services. The Director of Finance is authorized and directed to make appropriate certification as to the availability of funds for those fees and any reimbursement and to issue an appropriate order for their timely payment as written statements are submitted by that firm.

SECTION 13. Municipal Advisor. The services of PRISM Municipal Advisors, LLC, as municipal advisor, are hereby retained. The municipal advisory services shall be in the nature of financial advice and recommendations in connection with the issuance and sale of the Bonds. In rendering those municipal advisory services, as an independent contractor, that firm shall not exercise any administrative discretion on behalf of the City in the formulation of public policy, expenditure of public funds, enforcement of laws, rules and regulations of the State, the City or any other political subdivision, or the execution of public trusts. That firm shall be paid just and reasonable compensation for those municipal advisory services and shall be reimbursed for the actual out-of-pocket expenses it incurs in rendering those municipal advisory services. The Director of Finance is

authorized and directed to make appropriate certification as to the availability of funds for those fees and any reimbursement and to issue an appropriate order for their timely payment as written statements are submitted by that firm.

SECTION 14. Notification of Bond Issuance. The Director of Finance is authorized and directed to provide the notification required by Section 165.03(D) of the Ohio Revised Code to the Director of the Ohio Development Services Agency.

SECTION 15. Satisfaction of Conditions for Bond Issuance. This Council determines that all acts and conditions necessary to be done or performed by the City or to have been met precedent to and in the issuing of the Bonds in order to make them legal, valid and binding special obligations of the City have been performed and have been met, or will at the time of delivery of the Bonds have been performed and have been met, in regular and due form as required by law; that no statutory or constitutional limitation of indebtedness or taxation will have been exceeded in the issuance of the Bonds; and that the Bonds are being authorized and issued pursuant to the Act, the Charter of the City, this Ordinance, the Certificate of Award and other authorizing provisions of law.

SECTION 16. Compliance with Open Meeting Requirements. This Council finds and determines that all formal actions of this Council and any of its committees concerning and relating to the passage of this Ordinance were taken in an open meeting of this Council or any of its committees and that all deliberations of this Council and any of its committees that resulted in those formal actions were in meetings open to the public, all in compliance with the law, including Section 121.22 of the Ohio Revised Code and the Charter of the City.

SECTION 17. Effective Date. This Ordinance shall be in full force and effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed: _____, 2015

Richard L. Stage, Mayor

Effective: _____, 2015

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this Ordinance is correct
as to form.

Stephen J. Smith, Director of Law

Date: 08/07/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Turner
Approved: Mr. Boso
Emergency: 30 Days:
Current Expense:

No.: C-54-15
1st Reading: 08/17/15
Public Notice: 08/20/15
2nd Reading: 09/08/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-54-15

AN ORDINANCE TO APPROPRIATE \$4,400,000.00 FROM THE GENERAL FUND FOR THE CURRENT EXPENSE OF ENTERING INTO A DEVELOPMENT AGREEMENT WITH PIZZUTI

WHEREAS, on August 3, 2015, City Council authorized the City Administrator to execute an agreement with Pizzuti GCA LLC; and

WHEREAS, this appropriation is necessary to bridge the gap until the bond funds are available; and

WHEREAS, funds must be lawfully appropriated in order to execute the Development Agreement.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. There is hereby appropriated \$4,400,000.00 from the unappropriated monies of the General Fund to account number 100120.551300 for Current Expense of entering into a Development Agreement with Pizzuti.

SECTION 2. This ordinance appropriates for current expenses and shall therefore go into immediate effect.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I Certify that this ordinance is correct as to form.

Stephen J. Smith, Director of Law

I certify that there is money in the treasury, or is in the process of collection, to pay the within ordinance.

Michael A. Turner, Director of Finance

Date: 08/31/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Hurley
Approved: Mr. Boso
Emergency: 30 Days: X
Current Expense: _____

No.: C-60-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: _____ Rejected: _____
Codified: _____ Code No: _____
Passage Publication: _____

ORDINANCE C-60-15

AN ORDINANCE TO AUTHORIZE THE CITY ADMINISTRATOR TO ENTER INTO MULTI-YEAR AGREEMENTS WITH TIME WARNER COMMUNICATIONS FOR DATA CONNECTIVITY FOR FRYER PARK

WHEREAS, the City wishes expand its data connectivity with the City's data center to Fryer Park; and

WHEREAS, the City has obtained quotes off of the State bid term for these services from Time Warner Communications; and

WHEREAS, these agreements must be approved by Ordinance due to the agreements with Time Warner Communications exceed twelve (12) months.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City Council hereby authorizes the City Administrator to execute multi-year agreements with the Time Warner Communications for data connectivity to Fryer Park and the City's data center as set forth in Exhibit A.

SECTION 2. This Ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

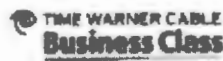
Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law



State of Ohio Services Quotation

The terms of this Quotation for Services are subject to the State Of Ohio Master Service Agreement and any conflicts will be resolved in favor of the Master Service Agreement.

CUSTOMER INFORMATION			
Company Name (Exact legal name): City of Grove City		Type of Entity (Individual, corporation, partnership, limited liability co., etc.): Government/Educational Entity	
Service Street Address: (see below)	City:	State:	Zip Code:
Billing Address:	City:	State:	Zip Code:
Customer Contact Name (Technical): Todd Hurley	Tel. No.: (614) 277-1725	Fax No.:	Email Address: thurley@grovecityohio.gov
Customer Contact Name (Procurement Contact):	Tel. No.:	Fax No.:	Email Address:
Customer Contact Name (Billing Contact):	Tel. No.:	Fax No.:	Email Address:

Services							
Customer hereby agrees to purchase from TIME WARNER CABLE, and TIME WARNER CABLE agrees to provide to Customer the following services (the "Services") as listed below on this order form, per the terms and conditions set forth in the Master Service Agreement.							
Line Item	Product/Service	Bandwidth (mbps)	Installation Address City, State Zip	Monthly Fee	Installation Fee	Construction Costs	Contract Term
1	ELine Service		From Grove City Senior Center 4330 Dudley Ave., Grove City, OH 43123				
2	ELine Service	25Mbps	To 3899 Orders Rd, Grove City, OH 43123	\$400.00	\$0	Waived	60 Months
3	Totals			\$400.00	\$0		60 Months

Note(s): Construction is required at 3899 Orders Rd. Any changes to this quote require finance approval.

- Placing State of Ohio orders. Services MUST be ordered through the State of Ohio ordering system. Please contact your Account Executive before ordering through the State of Ohio ordering system as they will be happy to walk you through the first entries as to ensure that the orders are entered correctly and will assist in the possibility that your orders will not be rejected from OIT. Should you enter the orders yourself, please enter the word "NEW" in the Circuit ID and Account Number field as these will only be generated after the circuit(s) have been installed.
- Additional order forms will be required and will be provided directly by your Account Executive (outside of the State of Ohio ordering system) and MUST be completed and returned to your Account Executive to complete your order (ie. Tax exempt certificates, permission to construct, etc.)
- Installation timeframe. Typical installation timeframe is 10-12 weeks from receipt of order.
- Services and Jurisdiction Certificate. Customer acknowledges and certifies that the total interstate traffic (including internet traffic) on the Service(s) constitutes ten percent (10%) or less of the total traffic on the Service and the prices and TWC calculations are based on this acknowledgement.
- Quotation for Services. Customer acknowledges that this quote is for ALL services, bandwidth, term and number of locations listed above. Should the any of these components be changed when customer places the order through the State of Ohio ordering system, this quotation automatically becomes null and void and a new quotation will be required.

Quote provided by:

Company: TIME WARNER ENTERTAINMENT CO

Address: 1015 Olentangy River Road, Columbus, OH 43212



Vendor ID: 0000003902

By: Lynnette Brandt, Major Account Executive, Government/Education

Phone: (614) 255-2785 email: lynnette.brandt@twcable.com

Date: 8-81-15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Hurley
Approved: Mr. Boso
Emergency: 30 Days: X
Current Expense: _____

No.: _____ C-61-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: _____ Rejected: _____
Codified: _____ Code No: _____
Passage Publication: _____

ORDINANCE C-61-15

AN ORDINANCE TO AUTHORIZE THE CITY ADMINISTRATOR TO ENTER INTO AGREEMENTS WITH TIME WARNER COMMUNICATIONS FOR DATA CONNECTIVITY AT THE GARDENS AT GANTZ

WHEREAS, the City wishes expand its data connectivity with the City's data center to the Gardens at Gantz; and

WHEREAS, the City has obtained quotes off of the State bid term for these services from Time Warner Communications; and

WHEREAS, the agreements with Time Warner Communications exceed twelve (12) months and must be approved by Ordinance.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City Council hereby authorizes the City Administrator to execute multi-year agreements with the Time Warner Communications for data connectivity to the Gardens at Gantz and the City's data center as set forth in Exhibit A.

SECTION 2. This Ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

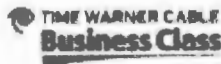
Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law



State of Ohio Services Quotation

The terms of this Quotation for Services are subject to the State Of Ohio Master Service Agreement and any conflicts will be resolved in favor of the Master Service Agreement.

CUSTOMER INFORMATION			
Company Name (Exact legal name): City of Grove City		Type of Entity (Individual, corporation, partnership, limited liability co., etc.): Government/Educational Entity	
Service Street Address: (see below)	City:	State:	Zip Code:
Billing Address:	City:	State:	Zip Code:
Customer Contact Name (Technical): Todd Hurley	Tel. No.: (614) 277-1725	Fax No.:	Email Address: thurley@grovecityohio.gov
Customer Contact Name (Procurement Contact):	Tel. No.:	Fax No.:	Email Address:
Customer Contact Name (Billing Contact):	Tel. No.:	Fax No.:	Email Address:

Services							
Customer hereby agrees to purchase from TIME WARNER CABLE, and TIME WARNER CABLE agrees to provide to Customer, the following services (the "Services") as listed below on this order form, per the terms and conditions set forth in the Master Service Agreement.							
Line Item	Product/Service	Bandwidth (mbps)	Installation Address City, State Zip	Monthly Fee	Installation Fee	Construction Costs	Contract Term
1	ELine Service		From Grove City Senior Center 4330 Dudley Ave., Grove City, OH 43123				
2	ELine Service	25Mbps	To 2255 Home Rd, Grove City, OH 43123	\$400.00	\$0	Waived	60 Months
	Totals			\$400.00	\$0		60 Months

Notes(s): Construction is required at 2255 Home Rd. Any changes to this quote require finance approval.

- Placing State of Ohio orders: Services MUST be ordered through the State of Ohio ordering system. Please contact your Account Executive before ordering through the State of Ohio ordering system as they will be happy to walk you through the first entries as to ensure that the orders are entered correctly and will assist in the possibility that your orders will not be rejected from OIT. Should you enter the orders yourself, please enter the word "NEW" in the Circuit ID and Account Number field as these will only be generated after the circuit(s) have been installed.
- Additional order forms will be required and will be provided directly by your Account Executive (outside of the State of Ohio ordering system) and MUST be completed and returned to your Account Executive to complete your order (ie. Tax exempt certificates, permission to construct, etc.)
- Installation timeframe: Typical installation timeframe is 10-12 weeks from receipt of order.
- Services and Jurisdiction Certificate: Customer acknowledges and certifies that the total interstate traffic (including internet traffic) on the Service(s) constitutes ten percent (10%) or less of the total traffic on the Service and the prices and TWC calculations are based on this acknowledgement.
- Quotation for Services: Customer acknowledges that this quote is for ALL services, bandwidth, term and number of locations listed above. Should the any of these components be changed when customer places the order through the State of Ohio ordering system, this quotation automatically becomes null and void and a new quotation will be required.

Quote provided by:

Company: TIME WARNER ENTERTAINMENT CO

Address: 1015 Olentangy River Road, Columbus, OH 43212



Vendor ID: 0000003902

By: Lynnette Brandt, Major Account Executive, Government/Education

Phone: (614) 255-2785 email: lynnette.brandt@twcable.com

Date: 08-31-15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Smith
Approved: Mr. Boso
Emergency: 30 Days:
Current Expense: XX

No.: C-62-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-62-15

AN ORDINANCE TO ACCEPT A DONATION OF \$100,000.00 FROM LAURA HARPER AND APPROPRIATE SAME FOR THE YOUTH SERVICES DEPARTMENT AT THE NEW LIBRARY

WHEREAS, longtime Southwest Public Library friend and supporter Laura Harper donated \$100,000.00 in 2013 to be used in the Youth Services Department of the new Grove City Library in memory of her Aunt, SPL's first librarian Irene Harper and her husband John Harper; and

WHEREAS, the generous donation, received through the SPL, will be used to add to and upgrade the original design of the Youth Services Department; and

WHEREAS, the donation will facilitate the design and completion of the area titled "Harper's Grove" in the Youth Services area of the new Grove City Library.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City accepts the generous donation of \$100,000.00 from Laura Harper, and appropriates it to account 305000.603133 to be used in the design and completion of the area titled "Harper's Grove" in the Youth Services area of the new Grove City Library.

SECTION 2. This ordinance appropriates for current expenses and shall therefore go into immediate effect.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this ordinance is correct as to form.

Stephen J. Smith, Director of Law

I certify that there is money in the treasury, or is in the process of collection, to pay the within ordinance.

Michael A. Turner, Director of Finance

Date: 08-31-15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Turner
Approved: Mr. Boso
Emergency: 30 Days
Current Expense: XX

No.: C-63-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-63-15

AN ORDINANCE TO ACCEPT A DONATION OF \$1,250.00 FROM WALMART AND APPROPRIATE THE SAME FOR THE DIVISION OF POLICE CRIME PREVENTION PROGRAMS

WHEREAS the Walmart Corporation has a history of supporting worthy causes in Grove City; and

WHEREAS Walmart employees have graduated from the Grove City Citizens Police Academy; and

WHEREAS Walmart continues to participate in Grove City Citizens Police Academy Alumni Association; and

WHEREAS, the Walmart Corporation has a desire to support their employees and their community activities; and

WHEREAS, the Walmart Corporation has generously donated \$1,250.00 to support and advance the Grove City Division of Police Crime Prevention Programs.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City accepts the generous donation of \$1,250.00 from the Walmart Corporation and appropriates it to account number 100070.531900 to be used to further the division crime prevention goals.

SECTION 2. This ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law

I certify that there is money in the treasury,
or is in the process of collection to pay the
within ordinance.

Michael A. Turner, Director of Finance

Date: 09/02/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Turner
Approved: Mr. Boso
Emergency: 30 Days
Current Expense: XX

No.: C-64-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-64-15

AN ORDINANCE TO ACCEPT A DONATION OF \$1,000.00 FROM THE COLUMBUS/GROVE CITY ELKS LODGE 37 AND APPROPRIATE SAME FOR THE DIVISION OF POLICE DARE PROGRAM

WHEREAS the Columbus/Grove City Elks Lodge 37 has a history of supporting worthy causes in Grove City; and

WHEREAS, the Grove City Division of Police provides Drug Awareness Recognition Education (DARE) to approximately 2,400 students annually; and

WHEREAS, the DARE program helps young people develop skills in decision making relative to drug & alcohol abuse and bullying; and

WHEREAS, the Columbus/Grove City Elks Lodge 37 has generously donated \$1,000.00 to support and advance the Grove City DARE program.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City accepts the generous donation of \$1,000.00 from the Columbus/Grove City Elks Lodge 37 and appropriates it to account number 100070.531900 to be used to further the goals of the DARE program.

SECTION 2. This ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this ordinance is correct as to form.

Stephen J. Smith, Director of Law

I certify that there is money in the treasury, or is in the process of collection to pay the within ordinance.

Michael A. Turner, Director of Finance

Date: 09/02/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Turner
Approved: Mr. Boso
Emergency: 30 Days
Current Expense: XX

No.: C-65-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-65-15

AN ORDINANCE TO APPROPRIATE \$21,677.91 FROM THE MAYOR'S COURT COMPUTER FUND FOR THE CURRENT EXPENSE OF PURCHASING COMPUTER FURNITURE

WHEREAS, all courts under Ohio law, including Mayor's Court, have the authority to charge fees to computerize the Court or Clerk of Court's Office; and

WHEREAS, Ohio law limits what these fees may be used for; and

WHEREAS, the Ohio Auditor of State has previously issued a determination, in Bulletin 97-019, that these fees may be used to purchase computer furniture; and

WHEREAS, the purchase of the computer furniture is part of a redesigning of the Mayor's Court Clerks space to improve internal processes and service to the public.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. There is hereby appropriated \$21,677.91 from the unappropriated monies of the Mayor's Court Computer Fund to account number 120000.575000 for current expense of purchasing new computer furniture.

SECTION 2. This ordinance appropriates for current expenses and shall therefore go into immediate effect.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law

I certify that there is money in the treasury,
or is in the process of collection to pay the
within ordinance.

Michael A. Turner, Director of Finance

Date: 09/02/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mayor Stage
Approved: _____
Emergency: 30 Days: X
Current Expense: _____

No.: C-66-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: _____ Rejected: _____
Codified: _____ Code No: _____
Passage Publication: _____

ORDINANCE C-66-15

AN ORDINANCE TO AUTHORIZE THE CITY ADMINISTRATOR TO ENTER INTO AN AGREEMENT WITH THE MIROLO CHARITABLE FOUNDATION AND THANK THEM FOR THEIR DONATION OF \$100,000.00 TO THE DREAM FIELD

WHEREAS, The Mirolo Charitable Foundation has graciously agreed to donate \$100,000.00 for the construction/development of a "dream baseball field" at Windsor Park; and

WHEREAS, in acknowledgement of the generous donation, the "dream field" will be named the "The Mirolo Dream Field."

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City Council hereby authorizes the City Administrator to execute the multi-year donation agreement with the Mirolo Charitable Foundation as set forth in Exhibit "A".

SECTION 2. Special thanks is hereby given to the Mirolo Charitable Foundation for its generous donation to the City of Grove City for the construction/development of the "The Mirolo Dream Field" at Windsor Park.

SECTION 3. This Ordinance shall take effect at the earliest opportunity allowed by law.

Passed:

Effective:

Attest:

I certify that this
ordinance is correct as to form.

Ted A. Berry, President of Council

Richard L. Stage, Mayor

Tami K. Kelly, MMC, Clerk of Council

Stephen J. Smith, Director of Law

C-66-15
Exhibit - A



THE MIROLO CHARITABLE FOUNDATION

GRANT AGREEMENT WITH GROVE CITY AND GROVE CITY LITTLE LEAGUE

This Grant Agreement ("Agreement") is made by and between (1) The Mirolo Charitable Foundation ("Mirolo Foundation" or the "Grantor"), (2) Grove City, Ohio ("Grove City"), and (3) Grove City Little League, a nonprofit organization that has a Section 501(c)(3) designation from the Internal Revenue Service ("Grantees") to provide a grant to fund the development of a Dream Field at the Windsor Park in Grove City, Ohio. The total grant from the Grantor is \$100,000 with the initial funding to be \$50,000 made within 2 weeks of the execution of this Agreement and its approval by Grove City Council. The second payment of \$25,000 will be made in 2016. For the years 2017 to 2019, Mirolo Foundation will distribute up to \$25,000 per year until the full grant has been made. The total grant or any portion thereof will be referred to as the "Grant." The Grant funds will be payable to Grove City. The conditions and limitations on this Grant are set forth in Sections II and III below.

I. PURPOSE and CRITERIA

The purpose of the grant is for the construction/development of a "dream baseball field" at Windsor Park, Grove City, Ohio. A "dream baseball field" is one that provides opportunities for children and adults with special needs to play baseball, regardless of their abilities. The field and its amenities are constructed to meet the unique needs of special-needs players and their families. It will have an all-weather rubberized surface and will be handicap accessible. There are no raised surfaces to interfere with crutches, walkers, or wheelchairs. The design of the dream baseball field has been completed and construction is underway.

Grove City has provided a portion of Windsor Park for the dream baseball field, has guaranteed the development/construction cost of the dream baseball field/its amenities, and has agreed to maintain the dream baseball field once it becomes operational. Grove City and Grove City Little League are solely responsible for raising the funds to develop/construct the dream baseball field. The total cost of the project is expected to be approximately \$1.1 million. Grove City Little League has committed to raise \$252,000, for the project, of which a substantial portion has already been raised.

II. GENERAL GRANT CONDITIONS

A. Binding Agreement:

The Grantees agree that the provision of this Agreement are binding upon it and that the acceptance of the Grant creates a legal duty on the part of the Grantees to use the Grant funds in accordance with the terms of this Agreement and to comply with all provisions and conditions of this Agreement and any subsequent amendments to this Agreement.

GRANT AGREEMENT with GROVE CITY and GROVE CITY LITTLE LEAGUE

B. Naming Rights

1. The Grantees agree that Grove City shall adopt legislation naming the dream baseball field, and, at the discretion of the Mirolo Foundation directors, it will name in perpetuity the dream baseball field in honor of the Mirolo Foundation or Ms. Amelita Mirolo ("Naming Rights"). Thereafter, all references to the dream baseball field shall be in the name selected by the Mirolo Foundation directors, tentatively "The Mirolo Dream Field at Mount Carmel Stadium." If Mount Carmel Health does not obtain naming rights to the stadium, the Mirolo Foundation has the right to approve the donor that has naming rights to the stadium (with such consent not to be unreasonably withheld).
2. It is further agreed that if, any time after 30 years from the date of this Agreement, the dream baseball field is reconstructed, substantially renovated, or an addition is made, and another donor contributes a substantial amount to the renovation/reconstruction/addition, the name selected by the Mirolo Foundation directors will continue, though the name may be shared with the new substantial contributor.
3. It is further agreed that if, within 30 years from the date the dream baseball field is placed in service, the dream baseball field is moved or no longer be used, Grantees, with the consent of the Mirolo Foundation (with such consent not to be unreasonably withheld), would name another dream baseball field of equal prominence in Grove City with a name selected by the Mirolo Foundation directors; however, the original name established under this Agreement shall be given preference. In such case, the Grantor further agrees to adhere to the conditions of this Agreement.
4. The dream baseball field shall be designated with a name approved by the Mirolo Foundation directors and
 - a. a sign on the backstop and/or donor wall with the selected name (tentatively, "The Mirolo Dream Field at Mount Carmel Stadium") will be placed in an appropriate location around the dream baseball field;
 - b. subject to the approval of the Mirolo Foundation, there shall be a recognition plaque and/or another type of donor display where the selected name shall be prominently displayed at the top of that plaque and/or display; and
 - c. the selected name will appear at the top of any media publication about the donors of the dream baseball field.

C. Other Conditions:

1. The Grantees agree to issue a joint press release, to be approved by the Mirolo Foundation directors and Mount Carmel Health, to announce the Grant.

GRANT AGREEMENT with GROVE CITY and GROVE CITY LITTLE LEAGUE

2. Grove City agrees to be responsible for all of the maintenance of the dream baseball field in perpetuity.
3. Both Grantees agree that the Grant proceeds will first be applied to any remaining amount due on the Grove City Little League \$252,000 pledge and any Grant amount remaining after the application to the Grove City Little League pledge, can be applied to the following ancillary projects that specifically address special needs of the dream baseball field participants and their families:
 - i. \$40,000 for dugouts with covers; and
 - ii. \$50,000 for spectator stands; and
 - iii. \$50,000 - \$60,000 for a shelter house; and
 - iv. \$29,000 for fencing; and
 - v. \$52,000 for lighting; and
 - vi. All purpose playground equipment (Amount TBD).

The forgoing list of ancillary projects may be amended by mutual agreement of the Parties.

4. Grantor may withhold any remaining portion of the Grant once the Grove City Little League pledge of \$252,000 is met until the ancillary project specifications are met and there is adequate funding assurance to complete the ancillary project.
5. Grove City agrees to form a new Advisory Board that will be responsible, in concert with the City, for the operation and management of the dream field leagues. The new Advisory Board will have no more than seven (7) members, of which one member will be designated by the Mirolo Foundation.

D. Compliance to Agreement Terms by Grantee:

1. Grantees agree that they will spend the grant funds only for those purposes and activities set forth in the Agreement, including amendments for supplements thereto.
2. Grantees agree that whenever the Mirolo Foundation finds that the Grantees are not complying with the terms and conditions of this Agreement or have diverted Grant funds for purposes other than those for which they are awarded or paid, the Mirolo Foundation shall make no further Grant payments until the Grantees repay or arrange for repayment

GRANT AGREEMENT with GROVE CITY and GROVE CITY LITTLE LEAGUE

of the Grant funds, which have been improperly diverted or expended.

3. Grantees agree that funding of the Grant is contingent upon the Mirolo Foundation's determination that funds are available.
4. The Grant awarded by the Mirolo Foundation is contingent upon the execution of this Agreement, which must be signed by an appropriate signatory authorized to so sign by the Grantee organizations. The original Agreement will be retained by the Mirolo Foundation and a copy returned to each of the Grantees. The Mirolo Foundation understands that Grove City must obtain approval from City Council for this Agreement before the Agreement becomes effective.
5. In the event the Grantees fail to comply with any of the terms and conditions of this Agreement, the Mirolo Foundation may, in its sole discretion:
 - a. Withhold any/all Grant payments until discrepancies or shortcomings are resolved to the satisfaction of the Mirolo Foundation and are consistent with this Agreement, or
 - b. In the event of unresolved noncompliance, rescind the Grant award, terminate this Agreement and request a partial or complete refund of monies advanced to the Grantees, pursuant to this Agreement, or
 - c. Require grant payments not spent be returned in full to the Grantor if the provisions of this Section II, paragraph C. 4. above is not met.
6. Any Grant funds that remain uncommitted at termination of the Grant period must be returned with the Final Report as noted in Section III, "Grant Accounting, Records and Reports," below, along with a check payable to the Mirolo Foundation. All Mirolo Foundation funds, or goods acquired with Mirolo Foundation funds, which are determined after audit to have been improperly applied, must be returned to the Mirolo Foundation.

III. GRANT ACCOUNTING, RECORDS AND REPORTS

A. Grove City will maintain records and accounts consistent with the GAAP accounting principles, and, upon request, provide for such physical control as is necessary to assure proper disbursing of, and accounting for, dream baseball field project/Grant funds.

B. Grove City certifies that accounts and supporting documentation relating to dream baseball field project/Grant expenditures will be adequate to permit an accurate and expeditious audit by the Mirolo Foundation or by its designated representative, if the Mirolo Foundation chooses to request an audit.



GRANT AGREEMENT with GROVE CITY and GROVE CITY LITTLE LEAGUE

"This program (dream baseball field project/Grant) was financially assisted by The Mirolo Charitable Foundation."

B. All publicity releases, informational brochures, printed programs, films, audio and/or video recordings reports pertaining to the dream field will include the name selected by the Mirolo Foundation directors.

V. MODIFICATIONS AND GOVERNING LAW

Any modification of the terms including supplements or amendments to this Agreement must be in writing executed by the Mirolo Foundation and Grantees. Grantees shall submit written requests for amendments, and the Mirolo Foundation directors shall approve such requests in writing prior to the Grantees' making significant revisions of the project/Grant, such as, but not limited to changes of project/Grant scope, purpose, activities, dates and times, or principal participants or changes in duration of the Grant period. This Agreement is governed by and construed under the laws of the State of Ohio without regard to its conflict-of-law provisions.

VI. LIABILITY

In making this Grant, the Mirolo Foundation does not assume any liability or responsibility for the actions of the Grantees in carrying out the purposes of the Grant.

VII. NONCOMPLIANCE AND TERMINATION

Failure of either of the Grantees to comply promptly with any and all provisions of this Agreement shall be sufficient cause for the Mirolo Foundation to terminate this Agreement. Such termination shall be effective on receipt by the Grantees of written notice from the Mirolo Foundation. In the event of termination, Grantees must still comply with the reporting, refund and reimbursement portions of this Agreement.

VIII. ACCEPTANCE

By execution hereof, along with the resolution of Grove City Council to this Agreement, Grantees signify their acceptance of the Grant in the amount of \$100,000 to be distributed under the terms and conditions stated in this Agreement, and they also authorize the undersigned to execute this Agreement on behalf of Grantees and to bind Grantees to the terms of this Agreement.



GRANT AGREEMENT with GROVE CITY and GROVE CITY LITTLE LEAGUE

WITNESS OUR SIGNATURES this _____ day of _____, 2015.

THE MIROLO CHARITABLE FOUNDATION

By: _____

Title: _____

GRANTEE, GROVE CITY

By: _____

Title: _____

Charles W. Boso, Jr, City Administrator

Approved as to form:

Stephen J. Smith, Law Director

GRANTEE, GROVE CITY LITTLE LEAGUE

By: _____

Title: _____

Date: 09-02-15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mayor Stage
Approved: _____
Emergency: 30 Days: X
Current Expense: _____

No.: _____ C-67-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: _____ Rejected: _____
Codified: _____ Code No: _____
Passage Publication: _____

ORDINANCE C-67-15

AN ORDINANCE TO AUTHORIZE THE CITY ADMINISTRATOR TO ENTER INTO AN AGREEMENT WITH MOUNT CARMEL HEALTH SYSTEM AND THANK THEM FOR THE DONATION OF \$100,000.00 FOR THE DREAM FIELD

WHEREAS, Mount Carmel Health System has graciously agreed to donate \$100,000.00 for the construction/development of a "dream baseball field" at Windsor Park; and

WHEREAS, in acknowledgement of the generous donation, the stadium at the "dream field" will be named the "The Mount Carmel Stadium."

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City Council hereby authorizes the City Administrator to execute the multi-year donation agreement with Mount Carmel Health System as set forth in Exhibit "A".

SECTION 2. Special thanks is hereby given to Mount Carmel Health System for its generous donation to the City of Grove City for the construction/development of the "The Mount Carmel Stadium" at Windsor Park.

SECTION 3. This Ordinance shall take effect at the earliest date permitted by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law



The City of Grove City, Ohio

4035 Broadway, Grove City, Ohio 43123

614-277-3000

Richard L. "Ike" Stage, Mayor
Charles W. Boso, Jr., City Administrator

August 18, 2015

C-67-15
Exhibit "A"

Mount Carmel Health System
Attention: Jason Koma and Robyn Morton
5300 North Meadows Drive
Grove City, Ohio 43123

Dear Mr. Koma and Ms. Morton:

This letter memorializes our agreement concerning your generous pledge of \$100,000 to the City of Grove City ("City") for naming rights for the stadium for the City's Dream Field Program, as described below. Your pledge will help hundreds of special baseball players, of all abilities, who will now enjoy the thrill of participating in organized baseball.

Your Pledge is an irrevocable pledge that will be paid to City over a period of six years, with the Pledge to be paid in full by December 31, 2021. The City has already received the first installment in the amount of \$5,000. The remaining annual payments toward your full satisfaction of the Pledge will be \$15,833, with the next payment being made by March 31, 2016. You may accelerate the payment of any or all of your Pledge at any time in your discretion so long as the Pledge is fully paid by March 31, 2021. Payments shall be paid by you to City via check, electronic funds transfer, or other methods acceptable to you and City.

You acknowledge that, in reliance on your Pledge, the City will move forward with the construction of the "Dream Field" at Windsor Park. The Dream Field will contain a special rubberized surface for children of all abilities. Accordingly, you hereby acknowledge and agree that you have an irrevocable, legally binding agreement to pay City the Pledge, in accordance with the terms of this letter. You agree that the foregoing consideration and the naming rights recognition set forth below constitute full and adequate consideration for your Pledge.

In consideration of the fulfillment of your Pledge, to honor your generosity and leadership, subject to the terms of this letter, the Dream Field Stadium will, during its useful life, be named **The Mount Carmel Stadium**. Specifically, the Grove City Dream Field facilities will be known as the **"The Mirolo Dream Field at Mount Carmel Stadium."** All written materials about the stadium will include the full proper name shown herein. The Mount Carmel Stadium will include mutually agreed upon signage recognizing your generosity.

This letter represents our entire agreement concerning the matters covered by it and supersedes and replaces the prior agreement from November of 2014. This letter may be amended only in writing that is signed by City and by you. Ohio law will govern the terms of this letter. The terms of this agreement are subject to approval by City Council for the City of Grove City.

If this letter accurately reflects your understanding of our agreement, please sign and return a copy of this letter to the City.

Sincerely,

THE CITY OF GROVE CITY

Mayor Richard "Ike" Stage

Charles W. Boso, Jr., City Administrator

Approved as to form: _____
Stephen J. Smith, Law Director

ACKNOWLEDGED AND AGREED:

Jason Koma

Robyn Morton

Date: 9/02/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Smith
Approved: Mr. Boso
Emergency: 30 Days:
Current Expense: X

No.: C-68-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-68-15

AN ORDINANCE TO APPROPRIATE \$60,000.00 FROM THE PINNACLE TAX INCREMENT FINANCING FUND FOR THE CURRENT EXPENSE OF CONSTRUCTING AN ENTRY FEATURE AND OTHER RELATED IMPROVEMENTS

WHEREAS, on June 1, 2015 Council passed Ordinance C-30-15 which approved an agreement with the Developer for public improvement cost sharing; and

WHEREAS, this agreement discussed the installation of an entry feature at the eastern terminus of Pinnacle Club Drive at State Route 104 that would be paid for out the of the funds from the Pinnacle TIF District; and

WHEREAS, the City and Developer have preliminarily designed an entry feature, attached hereto as Exhibit A, that is consistent with other features in the surrounding development; and

WHEREAS, as part of this project, the City is looking at options for extending the leisure path across State Route 104 to the proposed Scioto Grove Metro Park; and

WHEREAS, this appropriation will fund the design/construction of the entry feature and the engineering costs for exploring options to extended the leisure path.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. There is hereby appropriated \$60,000.00 from the unappropriated monies of the Pinnacle TIF Fund to account number 203000.578000 for current expense of designing, engineering and constructing the entry feature and leisure path extension.

SECTION 2. This Ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law

Exhibit A
C-68-15



Date: 09/02/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: Mr. Turner
Approved: Mr. Boso
Emergency: 30 Days:
Current Expense:

No.: CR-50-15
1st Reading: 09/08/15
Public Notice: 0 / /15
2nd Reading: 0 / /15
Passed: Rejected:
Codified: Code No:
Passage Publication:

RESOLUTION CR-50-15

A RESOLUTION TO AUTHORIZE A THEN AND NOW CERTIFICATE FOR THE PAYMENT OF \$33,229.93 FOR PROFESSIONAL SERVICES

WHEREAS, preliminary engineering services for Orders Road Improvements were incurred in excess of amounts encumbered to pay EMH&T invoice number 170958 for the amount of \$33,229.93; and

WHEREAS, funds were appropriated and available at the time services were incurred; and

WHEREAS, funds remain appropriated and available now; and

WHEREAS, under such circumstances, Section 5705.41 of the Ohio Revised Code requires expenditures exceeding \$3,000.00 to be approved by a resolution of Council; and

WHEREAS, the City deems it necessary to pay this invoice for services rendered.

NOW, THEREFORE BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. A Then and Now Certificate allowing for the payment of professional services in the amount of \$33,229.93 is hereby authorized and approved.

SECTION 2. This resolution shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this resolution
is correct as to form.

Stephen J. Smith, Director of Law

Date: 09/02/15
Introduced By: Mr. Bennett
Committee: Finance
Originated By: City Clerk
Approved: _____
Emergency: 30 Days: _____
Current Expense: _____

No.: CR-51-15
1st Reading: 09/08/15
Public Notice: _____
2nd Reading: _____
Passed: _____ Rejected: _____
Codified: _____ Code No: _____
Passage Publication: _____

RESOLUTION NO. CR-51-15

A RESOLUTION APPOINTING ADAM BORCHERS TO THE AUDIT COMMITTEE

WHEREAS, at the suggestion of the State Auditor, the Council established an audit Committee by Resolution CR-54-02; and

WHEREAS, under the provisions of this Resolution, City Council is to appoint two (2) members to said committee; and

WHEREAS, one appointment has expired and it is necessary to fill this vacancy.

NOW, THEREFORE BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. Mr. Adam Borchers is hereby appointed to the Audit Committee, ending 9/30/18.

SECTION 2. This resolution shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:
Effective:

Richard L. Stage, Mayor

Attest:

Tami K. Kelly, MMC, Clerk of Council

I Certify that this resolution is correct as to form.

Stephen J. Smith, Director of Law

Date: 08/07/15
Introduced By: Mr. Davis
Committee: Safety
Originated By: Mr. Smith
Approved: Mr. Boso
Emergency: 30 Days: XX
Current Expense:

No.: C-55-15
1st Reading: 08/17/15
Public Notice: 08/20/15
2nd Reading: 09/08/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-55-15

AN ORDINANCE TO AMEND VARIOUS SECTIONS OF CHAPTER 1101 OF THE CODIFIED ORDINANCES OF GROVE CITY, OHIO TITLED DEVELOPMENT STANDARDS

WHEREAS, the City of Grove City is responsible for ensuring the City's stormwater management regulations meet the minimum requirements of the Ohio EPA's Small Municipal Separate Storm Sewer System (MS4) General Permit; and

WHEREAS, following a comprehensive review by City staff and the City's consulting Engineer, these changes were recommended to ensure compliance with the Ohio EPA Small MS4 General Permit; and

WHEREAS, amendments to Street Lighting and Submission Procedures are also necessary to assist with proper lighting and review of development applications.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, COUNTY OF FRANKLIN, AND STATE OF OHIO, THAT:

SECTION 1. Section 1101.05(g) is hereby amended to read:

- (g) The Director of Public Service shall be responsible for enforcement of the Stormwater Design Requirements and shall not allow any development of land unless such development meets the design requirements specified in Chapter 971 and the City of Grove City's Stormwater Design Manual adopted by City Council. The Stormwater Design Manual shall be available on the City's website and hardcopies are on file with and available from the Director of Public Service and Clerk of Council. All natural open watercourses shall be protected by establishing a Stream Corridor Protection Zone as specified in the City's Stormwater Design Manual. All stormwater controls shall be designed in accordance with the design specifications provided in the City's Stormwater Design Manual. Storm drainage systems for land being developed or improved shall be designed so that the peak rate of stormwater runoff after development does not exceed the peak rate of runoff before development for all storms, from the critical storm up to a 100 year frequency-twenty-four hour storm, and does not exceed the peak rate of runoff for a one year frequency storm before development of the land for all storms, from a one year frequency-twenty-four hour storm through the critical storm.

SECTION 2. Section 1101.05(g)(3) is hereby amended to read, in part:

- (3) The development's interior drainage system shall be designed ~~to carry the runoff from a five-year frequency twenty four hour storm,~~ per the design storm standards as outlined within the City's Storm Water Design Manual, except

that the year frequency twenty-four hour storm that is compatible with the existing drainage system shall be used when connecting directly to the existing system with the conduit flowing full with surcharge to the gutter line and the:

.....
.....
.....
.....

~~Street pavement being dry for one twelve foot lane on local streets and two twelve foot lanes on thoroughfares.~~ Street drainage shall be designed per the pavement spread standards as outlined within the City's Stormwater Design Manual.

SECTION 3. Sections 1101.05(g)(5 - 9) are hereby amended to read:

- (5) ~~The rainfall intensity duration frequency curve for the Soil Conservation Service of the U.S. Department of Agriculture, Type II storm shall be used.~~ For peak flow rate analysis, the 12-hour rainfall depths, shown on Table 3-3 from National Oceanic and Atmospheric Administration Atlas 14, Sullivant Avenue Station 33-1781, shall be used. The Midwest Climate Center Bulletin 71, Rainfall Frequency Atlas of the Midwest, shall be used as the reference document for selection of a rainfall distribution. For quantitative controls the Bulletin 71, 2nd Quartile, 0-10 square mile, 50% curve, and 12-hour duration storm shall be used. If required for water quality peak flow rate calculations, the 1st Quartile, 0-10 square mile, 50% curve, and 2-hour duration storm shall be used and the runoff curve number shall be calibrated to match or exceed the Ohio EPA water quality volume.
- (6) Except as modified in the Codified Ordinances, the ~~Mid-Ohio Regional Planning Commission's~~ City's Stormwater Design Manual shall be used as the guide for designing storm drainage systems; however, storm drainage system designs that meet the intent and requirements of this subsection may be used.
- (7) ~~All storm water retention and detention basins shall be designed as "wet facilities". All storm water basins and/or lakes shall be designed using the City of Grove City's Storm Water Basins and Lake Design Manual as a design guideline.~~
- (7)(8) Any portion of the drainage system, including on-site and offsite storage facilities, that is constructed by the developer will be continuously maintained by the owner or owners subsequent in title of the affected lands unless it is officially accepted by the City for City maintenance. The developer shall cause the maintenance obligation to be inserted in the chain of title to the affected lands as a covenant running with the land in favor of the City.
- (8)(9) All natural open watercourses shall be protected using the City of Grove City ~~Natural Stream Protection Policy as a design guideline~~ Stormwater Design Manual.

SECTION 4. Section 1101.05(m) is hereby amended to read:

- (m) Street lighting shall be provided on public streets by means of lighting assemblies ~~using a 100 watt, 120 volt high pressure or equivalent lighting assemblies,~~ mounted on aluminum poles or decorative poles so approved by the Director of Public Service. ~~Aluminum poles shall meet Standard Construction Drawings G-52 and G-53. These lighting assemblies shall be no less than twenty four feet above the ground's surface at the pole base.~~ These assemblies and underground cables shall be located three feet in back of the street curb and beyond the edge of the paved shoulder for uncurbed streets. The assembly shall be installed not less than 250 feet nor more than 350 feet apart. One assembly shall be located within 200 feet on the end of each cul-de-sac. One assembly shall be located at each street intersection. Blocks shorter than 500 feet apart shall not require an intermediate lighting assembly.

SECTION 5. Section 1101.07(a) is hereby amended, in part:

- (a) An owner wishing to develop land shall submit ~~eighteen (18)~~ twenty (20) copies of a Development Plan, and such other information as the owner desires, to the Planning Commission ~~fourteen (14)~~ a minimum of thirty (30) days prior to the date of the Commission's meeting. . . .

SECTION 6. This ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Effective:

Richard L. Stage, Mayor

Attest:

Tami K. Kelly, MMC, Clerk of Council

I Certify that this ordinance is correct as to form.

Stephen J. Smith, Director of Law

Date: 08/07/15
Introduced By: Ms. Lanese
Committee: Service
Originated By: Mr. Smith
Approved: Mr. Boso
Emergency: 30 Days: X
Current Expense:

No.: C-56-15
1st Reading: 08/17/15
Public Notice: 08/20/15
2nd Reading: 09/08/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-56-15

AN ORDINANCE TO AMEND PART 9 OF THE CODIFIED ORDINANCES OF GROVE CITY, OHIO AND ENACT TITLE 7 TITLED STORMWATER

WHEREAS, the City of Grove City is responsible for ensuring the City's stormwater management regulations meet the minimum requirements of the Ohio Environmental Protection Agency's Small Municipal Separate Storm Sewer System (MS4) General Permit; and

WHEREAS, under the Ohio EPA Small MS4 General Permit the City is required to address: illicit discharge detection and elimination, construction site stormwater runoff control, and post-construction stormwater management in new development and redevelopment; and

WHEREAS, following a comprehensive review by City staff and the City's Consulting Engineer, amendments were recommended to ensure compliance with the Ohio EPA Small MS4 General Permit.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. Section 939.06 is hereby amended to read:

Storm water and ~~all other unpolluted drainage~~ **non-stormwater discharges as allowable in 973.02(b) and authorized by an NPDES permit or exempt from NPDES permit regulations** shall be discharged to such sewers as are specifically designated as storm sewers or to a natural outlet approved by the City. ~~Industrial cooling water or unpolluted process waters may be discharged to a storm sewer or natural outlet.~~

SECTION 2. Part 9 is hereby amended to enact Title 7 – Stormwater, attached hereto and made a part hereof as Exhibit "A" and the Stormwater Design Manual dated June, 2015 attached hereto as Exhibit "B".

SECTION 3. This Ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

I certify that this
ordinance is correct as to form.

Stephen J. Smith, Director of Law

TITLE SEVEN – Stormwater

Chap. 971 Stormwater Management

Chap. 973 Illicit Discharge and Obstruction of the Municipal Separate Storm Sewer System

Chapter 971 Stormwater Management

971.01	Purpose	971.06 Storm Sewer, Open Channel and Culvert
971.02	Applicability	Design, and Pavement Spread
971.03	Definitions and Acronyms	971.07 Operation and Maintenance of
971.04	Administration	Stormwater Facilities
971.05	Water Quality Requirements	971.08 Erosion and Sediment Control
		971.99 Penalty

CROSS REFERENCES

971.01 PURPOSE

This Chapter establishes stormwater management requirements within the City. The City has a Stormwater Design Manual that gives more specific guidance on the procedures and calculation methodologies required to meet the requirements of this Chapter. While adherence will not eliminate non-point source pollution, stop flooding or prevent all damage caused by flooding, it does establish a basis for design which will:

- (a) Minimize the damage and inconvenience of flooding;
- (b) Provide drainage systems which continue to provide benefit over the long term;
- (c) Minimize the expense of maintaining the drainage facilities within the City;
- (d) Reduce non-point-source pollution;
- (e) Minimize new impacts on engineered and natural drainage systems; and
- (f) Prevent or reduce impacts to stream and river ecosystems.

971.02 APPLICABILITY

The applicability of this chapter shall govern all developments and redevelopments within the City; however it does not alleviate the requirement for permits from state and federal agencies. The following exceptions from the Peak Flow Rate Controls of Section 971.06 are as follows:

- (a) Single-family residential lot not part of a larger common development or sale;
- (b) Two, three, or four unit multi-family structure not part of a larger common development or sale;
- (c) Managed open space associated with parks, golf courses, cemeteries, and other similar land uses including associated paved trails and roadways needed for the function of the land use;
- (d) Existing public right-of-way improvements including minor road widening increase in impervious area, and bridge crossings;
- (e) Linear utility line installations;
- (f) Land preparation for agricultural crops, orchards, woodlots, sod farms, and nursery operations;
- (g) Land grading or leveling for erosion control under direction of the local soil conservation district;
- (h) Land subdivisions for residential purposes with a minimum lot size of five acres;

- (i) Developments with less than 1 acre of disturbance as long as the following requirements have been complied with:
1. Land uses and developments which increase runoff rate or volume shall control the discharge rate of runoff prior to its release to off-site land or the Municipal Separate Storm Sewer System (MS4).
 2. It is the responsibility of the property owner to not change or alter any drainage course, ditch, flood routing path or drainage system on the property that will cause increased runoff, or will damage or cause flooding to adjacent, upstream or downstream property owners.
 3. All stormwater drainage systems, including conveyances, within a development shall be designed to have capacity and depth, including sufficient invert elevations to permit future connections, to serve that total tributary area up to the 100-year storm frequency. The system for the upstream tributary area shall be extended through the development.
 4. All proposed developments with a runoff rate greater than that which the downstream system has capacity for, or will be designed for, will be required to control the rate of stormwater discharge.
 5. Any Site Improvement Plan shall be submitted to the City for review and approval prior to the commencement of work at any proposed development site.
 6. All information necessary shall be submitted to the City to determine how stormwater runoff should be controlled within the development prior to its release to downstream properties. The tributary area and the upstream watersheds should be determined using natural land divides unless man-made alterations are approved by the City's Engineer as the basis for watershed delineations.
- (j) Properly permitted environmental restoration projects including wetlands, stream restoration, and other related activities.
- (k) Developments within previously approved stormwater master plans.

971.03 DEFINITIONS & ACRONYMS

For the purpose of Chapter 971, Stormwater Management, the words and phrases shall be defined as follows, unless the context clearly indicates or requires a different meaning.

- (a) "Best Management Practice(s)" or "BMPs" means measures including structural and non-structural stormwater management and erosion control practices that are determined by the Ohio Environmental Protection Agency (OEPA) or Ohio Department of Natural Resources (ODNR) to be the most effective, practical means of preventing or reducing point source or non-point source pollution inputs to stormwater runoff and water bodies.
- (b) "Contamination" means the presence of or entry into a public water supply system, the municipal separate storm sewer system (MS4), or Waters of the United States of any substance which may be harmful to the public health and/or the quality of water.
- (c) "Development" means any action in preparation for construction activity which results in an alteration of either land or vegetation, including but not limited to clearing, grubbing, grading, filling, excavation or any other development operations and the construction of new facilities, buildings, parking areas, recreational areas, etc.
- (d) "Discharge" means any substance introduced to the Waters of the State or to surface runoff which is collected or channeled by the MS4 which does not lead to treatment works and/or the addition of any pollutant to the Waters of the State from a point source.
- (e) "Director" means the City of Grove City Public Service Director.

- (f) "Earth Disturbance" means any clearing, grading, excavating, filling, or other alteration of land surface where natural or man-made cover is destroyed in a manner that exposes the underlying soils.
- (g) "Erosion" means the general process whereby soil or surface material is moved by flowing surface or subsurface water or is worn away by the action of wind, water, ice or gravity.
- (h) "Impervious Area" means any constructed surface; including but not limited to, rooftops, sidewalks, roads, and parking lots; covered by impenetrable materials such as asphalt, concrete, brick, and stone. These materials seal surfaces, repel water and prevent precipitation and runoff from infiltrating soils.
- (i) "Larger Common Plan of Development or Sale" means a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan. For the purposes of determining the area of development, any development of land that was part of a larger common sale or development on or after April 1 of 2003, shall include the cumulative area of disturbance since April 1 of 2003 and meet the appropriate Ohio EPA requirements for that area.
- (j) "Managed Open Space" is defined as land that is regularly maintained via mowing, fertilizing, landscaping, and other actions that prevent the land from being in a natural state such as single-family residential lawns, golf courses, cemeteries, and other similar types of development.
- (k) "Pollution" means the alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any Water of the State or Water of the United States, that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to the public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.
- (l) "Rainwater and Land Development Manual" means a manual describing construction and post-construction BMPs and associated specifications prepared by the Ohio Department of Natural Resources Division of Soil and Water Conservation. The compilation of technical standards and design specifications are methods of controlling construction related surface runoff, erosion and sedimentation. A copy of the manual may be obtained by contacting the Director of Public Service or the Ohio Department of Natural Resources, Division of Soil & Water Conservation.
- (m) "Sediment" means soils or other surface materials, including, but not limited to rock, sand, gravel and organic material or residue associated with or attached to the solid, that can be transported or deposited by the action of wind, water, ice or gravity as a product of erosion or sedimentation. (n) "Stormwater" means water runoff resulting from precipitation, snow melt, or irrigation runoff as defined in 40 Code of Federal Regulation 122.26(b)(13).
- (o) "Stormwater Master Plan" is a study prepared by a Professional Engineer to determine specific allowable discharge rates for a larger common development or watershed area. These types of studies are typically initiated due to downstream restrictions or other special circumstances that require a higher level of stormwater control within the study area.
- (p) "Stormwater Pollution Prevention Plan" or "SWP3" means a set of plans and specifications, prepared and approved in accordance with the specific requirements of the City's Engineer and the current OEPA, NPDES General Stormwater Permit. The SWP3 shall be certified by a Licensed Professional Engineer in the State of Ohio, and shall indicate the stormwater management strategy, including the specific measures and sequencing to be used to manage stormwater on a development site before, during and after construction and shows the details of any earth-disturbing activity on the site.

- (q) "Stream" means a system including permanent or seasonally flowing water, often with a defined channel (bed and bank), flood plain, and riparian ecosystem. To be classified as a stream, the waterway must meet certain requirements as defined by the OEPA and/or US Army Corps of Engineers and may then be classified as either an ephemeral, intermittent, or perennial stream.
- (r) "Structural BMP" is a constructed facility or measure to help protect receiving water quality and control stormwater quantity.
- (s) "Wetland" means an area that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated or hydric soil conditions as defined by the OEPA and/or US Army Corps of Engineers.

971.04 ADMINISTRATION

- (a) The Director of Public Service is authorized to administer, implement and enforce the provisions of this Chapter. The Director shall serve as the principal executive officer for stormwater management for the purposes of fulfilling the requirements of the OEPA's NPDES Phase II Stormwater Program. Compliance with this Chapter will be determined by the Director and that department.
- (b) The Director of Public Service shall prepare, or cause to prepare, a storm water management plan, required as part of the NPDES Phase II storm water program in accordance with the requirements set forth by the Ohio Environmental Protection Agency, including all annual updates and amendments thereto.
- (c) Stormwater Management Plans shall be designed to meet the requirements of this Chapter and the Stormwater Design Manual and submitted to the City Engineer for review. Stormwater Management Plans shall be signed and sealed by an Ohio Professional Civil Engineer and reviewed and approved by the Director and the City's Engineer.

971.05 WATER QUALITY REQUIREMENTS

Stormwater qualitative control must be implemented into sites in accordance with general and specific requirements outlined in the current OEPA's general permit for stormwater discharges associated with construction activity. Water quality BMPs shall be designed according to the latest design standards as set forth by the Ohio Department of Natural Resources Rainwater and Land Development Manual. Supplemental information for specific BMPs is contained in the Stormwater Design Manual. In addition to the minimum standards set forth by the Ohio EPA, the following additional requirements of the City shall be required.

Dry basins as defined by the ODNR Rainwater Manual and OEPA are not permitted as a water quality BMP within the City unless otherwise approved by the Director of Public Service or designee.

971.06 STORM SEWER, OPEN CHANNEL & CULVERT DESIGN, AND PAVEMENT SPREAD

These stormwater conveyance features shall be designed per the requirements as outlined within the City of Grove City Stormwater Design Manual.

971.07 OPERATION AND MAINTENANCE OF STORMWATER FACILITIES.

- (a) For all sites over one acre with proposed water quality and quantity BMPs, all structural and non-structural BMPs shall be maintained in compliance with a stand-alone Operation and Maintenance Plan meeting the minimum requirements of the latest version of the City Stormwater Design Manual.

- (b) At a minimum, the Operation and Maintenance Plan shall include an Operation and Maintenance Agreement signed by the owner/developer and a requirement for annual inspection reports filed on forms provided by the City and conducted by a licensed Ohio Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), or Certified Professional in Storm Water Quality (CPSWQ).
- (c) The Operation and Maintenance Plan shall be submitted by the owner/developer to the City for review and be approved prior to the commencement of earth disturbing activities.

971.08 EROSION AND SEDIMENT CONTROL

- (a) The owner/developer shall prepare a SWP3 in accordance with the general and specific requirements outlined in the OEPA's permit for stormwater discharges associated with construction activity or its subsequent OEPA-issued revision. The SWP3 shall include erosion and sediment structural and non-structural BMPs to address the management of construction site stormwater runoff throughout earth disturbing activities. The SWP3 shall be submitted to the City for review and must be approved prior to the commencement of earth disturbing activities. A copy of the OEPA Notice of Intent (NOI) submission shall be made available to the City.
- (b) A copy of the approved SWP3 shall be maintained onsite in a location easily accessible by the City at all times during earth disturbing activities. The owner/developer is required to modify the SWP3 as necessary during earth disturbing activities to appropriately manage the construction site stormwater runoff during the various phases of construction. The SWP3 required to be kept onsite must be modified and revised to reflect the installed BMPs at all times.
- (c) It shall be the responsibility of the owner/developer to provide notification to the City 48-hours prior to commencement of initial site earth disturbance. No construction activity such as grading, cutting, or filling shall be commenced until erosion and sedimentation control devices have been installed to the satisfaction of the City.
- (d) No person shall cause or allow earth-disturbing activities on a development area except in compliance with the standards set out in this regulation and the applicable items below:
 - (1) A SWP3 shall be approved prior to any earth disturbing activities on development areas, including those development areas being a part of a larger common plan of development or sale. The person proposing such earth disturbing activities shall develop and submit for approval a plan, as part of the final site improvement plans, containing erosion and sediment pollution control practices so that compliance with other provisions of this regulation shall be achieved during and after development. Such a plan shall address specific requirements contained within this regulation.
 - (2) The SWP3 must contain a description of the controls appropriate for each construction operation covered by this regulation and the operator(s) must implement such controls. The terms must clearly describe for each major construction activity appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented; and which contractor is responsible for implementation (e.g., contractor A will clear land and install perimeter controls and contractor B will maintain perimeter controls until final stabilization). The erosion and sediment control practices used to satisfy the conditions of this regulation shall meet the standards and specifications in the current edition of Ohio's Rainwater and Land Development manual or other standards acceptable to the City.

971.99 PENALTY

Whoever violates any provision of this Chapter or fails to comply therewith or with any order issued by any public official pursuant to the provisions hereof, shall:

- (a) Be fined not more than two hundred fifty dollars (\$250.00) or imprisoned for not more than thirty days, or both for each offense. A separate offense shall be deemed committed each day during or on which any offense occurs or continues; and/or**
- (b) Be liable to the City or any person or property owner damaged thereby for any and all expenses, penalties, fines, loss or damage occasioned by reason of any violation of this chapter and the damaged parties' efforts to eliminate or correct such violation.**

CHAPTER 973
Illicit Discharge and Obstruction of the Municipal Separate Storm Sewer System

<u>973.01</u>	<u>Definitions & Acronyms</u>
<u>973.02</u>	<u>Purpose</u>
<u>973.00</u>	<u>Penalty</u>

CROSS REFERENCES

973.01 DEFINITIONS & ACRONYMS

- (a) “Facility” means any operation, including construction sites, required by the Federal Clean Water Act to have a permit to discharge stormwater associated with activities subject to NPDES Permits as defined in 40 CFR, Part 122.
- (b) “Municipal Separate Storm Sewer System” or “MS4” as defined at 40 CFR 122.26(b)(8), means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):
 - (1) Owned or operated by a State, City, Town, County, District, Association, Political Subdivision or other public body (created by or pursuant to State law) including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity;
 - (2) Designed or used for collecting or conveying stormwater;
 - (3) Which is not a combined sewer; and
 - (4) Which is not part of a Publicly Owned Treatment Works (POTW) as defined in 40 CFR 122.2.
- (c) “National Pollutant Discharge Elimination System” or “NPDES” means a national program under the Clean Water Act that regulates stormwater discharges from point sources and non-point sources.
- (d) “NPDES Permit” means a permit issued by the OEPA that authorizes stormwater discharges to Waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

973.02 PURPOSE

- (a) No person, corporation or other entity shall introduce, or cause to be introduced, into the municipal separate storm sewer system (MS4) any discharge that is not composed entirely of storm water.
- (b) It is an affirmative defense to any prosecution brought under this section if the discharge is composed entirely of one or more of the following:
 - (1) A discharge authorized by, and in full compliance with, and NPDES permit, other than the NPDES permit for discharges from the MS4;
 - (2) A discharge or flow resulting from fire fighting by the Fire Department;
 - (3) A discharge of flow of fire protection water that does not contain oil or hazardous substances or materials that the Fire Code requires to be contained and treated prior to discharge, in which case treatment adequate to remove harmful quantities of pollutants must have occurred prior to discharge;
 - (4) Agricultural stormwater runoff;
 - (5) A discharge or flow from water line flushing or disinfection that contains no harmful quantity of total residual chlorine or any other chemical used in line disinfection;

- (6) A discharge or flow from lawn watering or landscape irrigation;
- (7) A discharge or flow from a diverted stream flow or natural spring;
- (8) A discharge of flow from uncontaminated pumped ground water or rising groundwater;
- (9) Uncontaminated groundwater infiltration, as defined at 40 C.F.R. 35.2005(20) to the MS4;
- (10) Uncontaminated discharge or flows from a foundation drain, crawl space pump, or footing drain;
- (11) A discharge or flow from a potable water source not containing any harmful substance or material from the cleaning or draining of a storage tank or other container;
- (12) A discharge or flow from air conditioning condensation that is unmixed with water from a cooling tower, emissions scrubber, emissions filter, or any other source of pollutant;
- (13) A discharge or flow from individual residential car washing;
- (14) A discharge of flow from a riparian habitat or wetland;
- (15) A discharge or flow from cold water, or hot water with prior approval of the Director of Public Service, used in street washing or cosmetic cleaning that is not contaminated with: any soap, detergent, degreaser, solvent, emulsifier, dispersant, or any other harmful cleaning substance;
- (16) Drainage from a private residential swimming pool or hot tub/spa containing no harmful quantities of chlorine or other chemicals. Drainage from swimming pool filter backwash is prohibited; or
- (17) A discharge or flow of uncontaminated storm water pumped from an excavation or existing pond.
- (c) The affirmative defenses listed in subsection (b) shall not apply when the discharger has continued after the expiration of the time given in the written notice to cease the discharge has been provided by the Director of Public Service.

973.99 PENALTY

Whoever violates any provision of this Chapter or fails to comply therewith or with any order issued by any public official pursuant to the provisions hereof, shall:

- (a) Be fined not more than two hundred fifty dollars (\$250.00) or imprisoned for not more than thirty days, or both for each offense. A separate offense shall be deemed committed each day during or on which any offense occurs or continues; and/or
- (b) Be liable to the City or any person or property owner damaged thereby for any and all expenses, penalties, fines, loss or damage occasioned by reason of any violation of this chapter and the damaged parties' efforts to eliminate or correct such violation.

C-56-15

EXHIBIT "B"

STORMWATER DESIGN MANUAL



June 2015

City of Grove City



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STORMWATER DESIGN MANUAL

1.0 INTRODUCTION

This Manual establishes design criteria for stormwater facilities within the City of Grove City in conjunction with City Code, Section's 971 and 973, Part 11, Title 1, Section 1101 and the Ohio Environmental Protection Agency's (OEPA) NPDES Phase II Stormwater Program. While adherence to this Manual will not stop flooding or prevent all damage caused by flooding, it does establish a basis for design which will:

- a. Minimize the damage and inconvenience of flooding.
- b. Provide drainage systems which continue to provide benefit over the long term.
- c. Minimize the expense of maintaining the drainage facilities within the City.
- d. Reduce non-point-source pollution.
- e. Minimize new impacts on engineered and natural drainage system.
- f. Prevent or reduce impacts to stream and river ecosystems.

1.1 Administration

The Director of Public Service is authorized to administer, implement and enforce the provisions of this Manual. The Director shall serve as the principle executive officer for stormwater management for the purposes of fulfilling the requirements of the OEPA's NPDES Phase II Stormwater Program. Compliance with this Manual will be determined by the Director and his/her office.

Stormwater management facilities shall be designed to meet the requirements of this Manual and submitted to the City Engineer for review. Stormwater management facilities shall be included with the construction plans and shall be signed and sealed by an Ohio Professional Civil Engineer. The City shall not approve plans for any site improvement over which it has jurisdiction without documentation from the Director and the City Engineer, that such plan of improvement has been designed to be in compliance with the design requirements herein.

1.2 Drainage Policy

This drainage policy, control guidelines and criteria do not provide solutions to all drainage problems, nor is the Engineer restricted to these design criteria or procedures exclusively. Although the policies as stated will hold true for most development work, the City realizes that there may be individual projects involving special or unusual drainage design problems that should be reviewed prior to completing the requisite site improvements. Exceptions may be granted to the policies and criteria in such cases when engineering study(s) justify modification.

The general policy of the City shall be as follows:

- a. Land uses and developments which increase runoff rate or volume shall control the discharge rate of runoff prior to its release to off-site land or the Municipal Separate Storm Sewer System (MS4).
- b. It is the responsibility of the property owner to not change or alter any drainage course, ditch, flood routing path or drainage system on his/her property that will cause increased runoff, or will damage or cause flooding to adjacent, upstream or downstream property owners.
- c. All stormwater drainage systems, including conveyances, within a development shall be designed to have capacity and depth, including sufficient invert elevations to permit future connections, to serve that total tributary area up to the 100-year storm frequency. The system for the upstream tributary area shall be extended through the development.
- d. All proposed developments with a runoff rate greater than that which the downstream system has capacity for, or will be designed for, will be required to control the rate of stormwater discharge.
- e. Site improvement plans with supporting documentation shall be submitted to the City for review and approval prior to the commencement of work at any proposed development site.
 1. Supporting documentation shall be submitted to the City to determine how stormwater runoff should be controlled within the development prior to its release to downstream properties. The tributary area and the upstream watersheds should be determined using natural land divides unless man-made alterations are approved by the City's Engineer as the basis for watershed delineations.
- f. This Stormwater Design Manual applies to all land developments. The following exceptions from the Peak Flow Rate Controls are as follows:
 1. Single-family residential lot not part of a larger common development or sale.
 2. Two, three, or four unit multi-family structure not part of a larger common development or sale.
 3. Managed open space associated with parks, golf courses, cemeteries, and other similar land uses including associated paved trails and roadways needed for the function of the land use.
 4. Existing public right-of-way improvements including minor road widening increase in impervious area, and bridge crossings.
 5. Linear utility line installations.
 6. Land preparation for agricultural crops, orchards, woodlots, sod farms, and nursery operations.
 7. Land grading or leveling for erosion control under direction of the local soil conservation district.
 8. Land subdivisions for residential purposes with a minimum lot size of five acres.
 9. Developments with less than 1 acre of disturbance as long as the requirements of 1.2(a) through (f) have been complied with.
 10. Properly permitted environmental restoration projects including wetlands, stream restoration, and other related activities.
 11. Developments within previously approved Stormwater Master Plan.

2.0 STORMWATER SYSTEM DESIGN CRITERIA

2.1 Design Storm Criteria

The following table provides guidance on the design frequency for storm sewers, culverts, and pavement spread.

Table 2-1: Design Storm Criteria

	Collector/Secondary/ Arterial Streets	Residential/ Local/ Private Streets	Commercial, Industrial, Institutional and other Developments	Private Parking Lots
Storm Sewer Open Channel	5-year	2-year	2-year	2-year
Storm Sewer Hydraulic Grade	10-year	5-year	5-year	5-year
Pavement Spread	2-year	2-year	n/a	n/a
Roadway Ditch Design	10-year	5-year	5-year	5-year
Roadway Culverts (non-FEMA streams)	25-year	10-year	10-year	10-year
Roadway Culverts (FEMA streams)	100-year	100-year	100-year	100-year

2.2 Peak Discharge Calculation Methodology

The rational method ($Q = CIA$) may be used to determine peak discharge rates for storm sewers, culverts, pavement spread, and roadway ditch designs with individual tributary areas generally less than 10 acres using the following formula to determine rainfall intensity.

$$\text{Intensity} = X / (Y + T)^Z \quad (\text{see Table 2-2 for coefficients})$$

Where T is equal to the time of concentration in minutes

Alternative methods for determining peak flow rates include the National Resources Conservation Service (NRCS) TR-55 methodology and the Green-Ampt Method.

For larger watershed and floodplain studies, the United States Geological Survey (USGS) rural regression equation may be used, specifically Water Resources Investigation Report 89-4126¹ according to the following formulas:

$$Q_2 = (56.1)(\text{CONTD A})^{0.782}(\text{SLOPE})^{0.172}(\text{STORAGE})^{-0.297}$$

$$Q_5 = (84.5)(\text{CONTD A})^{0.769}(\text{SLOPE})^{0.221}(\text{STORAGE})^{-0.322}$$

$$Q_{10} = (104)(\text{CONTD A})^{0.764}(\text{SLOPE})^{0.244}(\text{STORAGE})^{-0.335}$$

$$Q_{25} = (129)(\text{CONTD A})^{0.760}(\text{SLOPE})^{0.264}(\text{STORAGE})^{-0.347}$$

$$Q_{50} = (148)(\text{CONTD A})^{0.757}(\text{SLOPE})^{0.276}(\text{STORAGE})^{-0.355}$$

$$Q_{100} = (167)(\text{CONTD A})^{0.756}(\text{SLOPE})^{0.285}(\text{STORAGE})^{-0.363}$$

Where CONTD A is the contributing drainage area in square miles, SLOPE in the main channel slope in feet/mile; and STORAGE is the storage area in percent. Main channel slope (SLOPE), in feet per mile; computed as the difference in elevation at points 10 and 85 percent of the distance along the main channel from a specified location on the channel to the topographic divide, divided by the channel distance between the two points.

Table 2-2: Rational Method Intensity Formula Coefficients

Storm Frequency (years)	X	Y	Z
2	54.64	10.04	0.88
5	45.04	7.91	0.78
10	48.25	7.38	0.78
25	27.24	3.24	0.59
100	24.83	1.74	0.51

¹ US Geological Survey. (1990). *Techniques for Estimating Flood-Peak Discharges of Rural, Unregulated Streams in Ohio: Water-Resources Investigations Report 89-4126* by G.F. Koltun and J.W. Roberts. Ohio Department of Transportation.

2.3 Pavement Spread

Table 2-3 Pavement Spread Standards for the Design Storm

Street Classification	Maximum Encroachment from Face of Curb	Maximum Inlet Spacing
Residential/Local Streets	14 feet	300 Feet
Collector, Secondary, or Arterial Street	10 feet	200 Feet

- a. Detailed calculations for spread are not required if the area to the inlet does not exceed 0.50 acres of area for local and 0.20 acres of area for collector per inlet.

2.4 Roadway Culverts

- a. Design Procedure: The culvert design procedure recommended for use is Hydraulic Design Series No. 5, U.S. Department of Transportation.
- b. Preferred Construction: Single span culverts, including concrete box and slab top are preferred. Multiple cell pipe culverts are discouraged, except when they are the only structures that will meet the physical requirements introduced by rigid headwater controls, will they be acceptable.
- c. Culvert/Storm Sewer Pipe Material: The installation of all sewer pipes on this project shall be in accordance with Section 901 of the CMSC, unless specifically indicated otherwise, with materials conforming to the appropriate referenced section of CMSC or ODOT CMS. The following pipe materials will be permitted for use for public sewers.

Outside of Pavement Limits

Flexible Pipe according to the following specifications:

- Polyvinyl Chloride (PVC) pipe ≤ 15 " diameter with minimum of 4 feet coverage and a maximum of 15 feet coverage shall conform to CMSC 720.08 and/or ODOT CMS 707.45.
- High Density Polyethylene (HDPE) pipe between 12" and 36" diameter conforming to CMSC 720.12 and/or ODOT CMS 707.33 with a maximum 20 feet coverage and a minimum 2 feet coverage.
- Polypropylene (PP) pipe between 12" and 36" diameter conforming to ODOT CMS 707.65 or 707.69 and/or COC CMS 720.13 or 720.14 with a maximum 20 feet coverage and a minimum 2 feet coverage.

Mandrel testing shall be performed on all flexible pipe per CMSC 901.21.

Rigid Pipe will be required for all sewers greater than 36" diameter (Reinforced Concrete Pipe CMSC 706.02, Concrete Box CMSC 706.05) and is also permitted on all sewers between 12" and 36" diameter.

Within Pavement Limits

Flexible Pipe according to the following specifications:

- Flexible pipe installation which conforms to ODOT CMS 605 may be used for 4" and 6" underdrain tiles.
- High Density Polyethylene (HDPE) pipe $\leq 36"$ diameter conforming to CMSC 720.12 and/or ODOT CMS 707.33 with a maximum 20 feet coverage and a minimum 2 feet coverage.
- Polypropylene (PP) pipe between $\leq 36"$ diameter conforming to ODOT CMS 707.65 and/or COC CMS 720.13 with a maximum 20 feet coverage and a minimum 2 feet coverage.

Mandrel testing shall be performed on all flexible pipe (except underdrains) per CMSC 901.21.

Rigid Pipe will be required for all sewers greater than 36" (Reinforced Concrete Pipe 706.02. Concrete Box 706.05) and is also permitted for use on 12" to 36" sewers.

- d. Inlet Elevation: The flowline elevation at the culvert inlet should be set deep enough to provide an adequate outlet for future storm sewer improvements upstream.
- e. Allowable Headwater shall not exceed any of the following controls for the design storm:
 1. 24 inches below the near, low edge of pavement for drainage areas of 1000 acres or more.
 2. 12 inches below the near, low edge of pavement for drainage areas of 1000 acres or less.
 3. 4 feet above inlet crown in deep ravine.
 4. 1 foot below near edge of pavement for bicycle pathways.
 5. Property Damage – 100-year frequency headwater plus 1 foot, shall not exceed any existing or proposed building first floor elevation.
- f. Maximum Allowable Outlet Velocity shall be:
 1. Turf Channel 5 feet per second.
 2. Rock Protection 18 feet per second.

Notes:

 - a. When the outlet velocity exceeds 18 feet per second, a stilling basin or other such energy dissipation structure shall be used.
 - b. The downstream channel shall have the ability to handle the flow satisfactorily.
- g. Structural Design Criteria for culverts shall be the same as that required by the Ohio Department of Transportation (ODOT).
- h. Emergency Flood Routing shall be capable of routing the 100-year storm over or around the culvert without creating a hazard or causing potential for erosion or personal property damage. Adequate scour protection shall be included in the design.
- i. End Protection should be as follows:
 1. 12-inch through 36-inch culverts – full-height headwall.
 2. 42-inch through 84-inch culverts – full height headwall with flared wings.
 3. Other special type headwalls shall be approved before use.

2.5 Storm Sewers

The criteria for designing storm sewer systems are listed below:

- a. All Storm Sewer Systems shall be designed using Manning's Equation or an EPA SWMM based modeling platform where the design storm flow doesn't exceed the flowing full capacity or hydraulic grade line does not exceed the crown of the pipe. For the Manning's Equation use the following formula:

$$Q = \frac{1.49}{n} R^{2/3} S^{1/2} A$$

and

$$Q = VA$$

Where:

Q = Rate of discharge (cfs)

A = Area of cross-section of flow (sq.ft.)

V = Mean velocity of flow (fps)

n = Manning's roughness coefficient

R = A/wp = Hydraulic radius (ft)

S = Slope of pipe or hydraulic grade line if surcharged (ft/ft)

wp = Wetted perimeter (ft)

- b. Hydraulic Gradient Requirement shall be:

1. For design storm, shall not exceed window or grate elevation for an inlet or catch basin.
2. Grade line is based on tailwater or 0.8 D at outlet (whichever is greater) or other critical points within the system.

- c. Design Flow Determination:

1. Areas under 10 acres use Rational Method $Q = CiA$.
2. Areas over 10 acres use Technical Release 55.

- d. Minimum time of Concentration: 5 minutes.

- e. Runoff Coefficient based on Table 2-4.

- f. Manning's "n" Value based on pipe material.

- g. Off-site Area: The sewer shall be deep enough and sized accordingly to receive the flow from all its sources within the watershed.

- h. Solids: The gradient of the sewer shall be sufficient to avoid deposition of solids by having a minimum full flow open channel velocity of 3.0 feet/second.

- i. Material: See Section 2.4(C).

- j. Manholes: The main conduit, if over 24 inches in diameter, will be required to be separated from all curb and gutter inlets unless a special design is approved by the Director of Public Service. Furthermore, the main conduit will be required to be separated

from all deep curb and gutter inlets, which have a depth greater than 6.5 feet from invert to the top-of-casting elevation.

- k. Flow Line: Unless otherwise approved by the Director of Public Service, the flow line of pipes should be set such that the crown of pipes, at junctions, are at the same elevation; if the outlet elevation permits, the crown of the outlet pipe may be lower. The flowline elevations of sewers should be set to avoid using concrete encasement.
- l. Specifications: The current City of Columbus and Ohio Department of Transportation (ODOT) "Construction and Material Specifications" (CMSC and ODOT CMS respectively) together with the requirements of the City of Grove City, Ohio, including all supplements thereto shall govern all materials and workmanship involved in the improvements. Please refer to the City of Grove City website Public Service Department Forms section for storm water improvement general notes.
- m. Submerged pipe inlets to basins:

The permanent submergence of a storm sewer at the inlet to a basin is discouraged and shall not be permitted to a depth greater than the $\frac{1}{2}$ the pipe diameter or a depth of two-feet at the outlet, whichever is less. When submergence is allowed upon approval by the Director of Public Service, special requirements shall include, but may not be limited to:

 - 1. Submergence "zone" shall not extend beneath pavement.
 - 2. Submergence "zone" shall not extend beyond the first manhole.
 - 3. "O-ring" sealed gasketed pipe joints shall be installed along the storm sewer for the full length of the submergence zone.
 - 4. Anti-seepage collars shall be installed in the submergence "zone".
- n. End protection should be as follows:
 - 1. 12-inch through 36-inch culverts – full-height headwall. If the outlet is not located within a channel bank or within the direct flow path of crossing floodwaters, half-headwalls at the outlet may be used if approved by the Director of Public Service
 - 2. 42-inch through 84-inch culverts – full height headwall with flared wings.
 - 3. Other special type headwalls shall be approved before use.
- o. Minimum Cover to subgrade and Maximum Cover over pipe:

See Section 2.4(C).
- p. Encasement: See Section 2.4(C).
- q. Maximum Length between access structures:
 - 1. Pipes under 60 inch – 350 feet.
 - 2. Pipes 60 inch and over 500 feet.

Table 2-4: Rational Method Runoff Coefficients²

Hydrologic Soil Group	A			B			C			D		
Storm Recurrence Interval (year)	2-5	10	100	2-5	10	100	2-5	10	100	2-5	10	100
Land Use Or Surface Characteristics												
Business												
A. Commercial Area	.75	.80	.95	.80	.85	.95	.80	.85	.95	.85	.90	.95
B. Neighborhood Area	.50	.55	.65	.55	.60	.70	.60	.65	.75	.65	.70	.80
Residential												
A. Single Family	.25	.25	.30	.30	.35	.40	.40	.45	.50	.45	.50	.55
B. Multi-Unit (Detached)	.35	.40	.45	.40	.45	.50	.45	.50	.55	.50	.55	.65
C. Multi-Unit (Attached)	.45	.50	.55	.50	.55	.65	.55	.60	.70	.60	.65	.75
D. ½ Acre Lot Or Larger	.20	.20	.25	.25	.25	.30	.35	.40	.45	.40	.45	.50
E. Apartments	.50	.55	.60	.55	.60	.70	.60	.65	.75	.65	.70	.80
Industrial												
A. Light Areas	.55	.60	.70	.60	.65	.75	.65	.70	.80	.70	.75	.90
B. Heavy Areas	.75	.80	.95	.80	.85	.90	.80	.85	.95	.80	.85	.95
Parks, Cemeteries Playgrounds	.10	.10	.15	.20	.20	.25	.30	.35	.40	.35	.40	.45
Schools	.30	.35	.40	.40	.45	.50	.45	.50	.55	.50	.55	.65
Railroad Yard Areas	.20	.20	.25	.30	.35	.40	.40	.45	.45	.45	.50	.55
Streets												
A. Paved	.85	.90	.95	.85	.90	.95	.85	.90	.95	.85	.90	.95
B. Gravel	.25	.25	.30	.35	.40	.45	.40	.45	.50	.40	.45	.50
Drives, Walks, & Roofs	.85	.90	.95	.85	.90	.95	.85	.90	.95	.85	.90	.95
Lawns												
A. 50% - 75% Grass (Fair Condition)	.10	.10	.15	.20	.20	.25	.30	.35	.40	.30	.35	.40
B. 75% Or More Grass (Good Condition)	.05	.05	.10	.15	.15	.20	.25	.25	.30	.30	.35	.40
Undeveloped Surface (By Slope)												
A. Flat (0-1%)	0.04-0.09			0.07-0.12			0.11-0.16			0.15-0.20		
B. Average (2-6%)	0.09-0.14			0.12-0.17			0.16-0.21			0.20-0.28		
C. Steep	0.13-0.18			0.18-0.24			0.23-0.31			0.28-0.38		

² Iowa Stormwater Management Manual, Iowa State University, 2009. Available from <http://www.intrans.iastate.edu/pubs/stormwater/index.cfm>

3.0 PEAK FLOW RATE CONTROL FACILITIES CALCULATION REQUIREMENTS

This section provides guidance on the implementation of the peak flow control requirements consistent with the critical storm method. The NRCS runoff curve number (RCN) method is the preferred method to determine runoff volumes and peak flow rates to stormwater control facilities, although the Green-Ampt method coupled with an EPA SWMM modeling engine may be used with permission by the Director Public Service for special situations. Level pool routing calculations shall be performed using TR-20, EPA SWMM, or HEC-1 based modeling platforms.

The peak rate of runoff from an area after development shall not exceed the peak rate of runoff from the same area before development for the 1, 2, 5, 10, 25, 50, and 100-year return frequency storms. For sites that increase the volume of runoff, determine the percent increase in runoff for the 1-year, 24-hour storm using a rainfall depth of 2.20 inches and determine the critical storm from the following table. The critical storm shall be detained to the 1-year predeveloped rate.

Table 3:1 Critical Storm Determination

Percent Increase in Runoff Volume	Critical Storm
0-10	1-year
10-20	2-year
20-50	5-year
50-100	10-year
100-250	25-year
250-500	50-year
500+	100-year

3.1 Runoff Curve Number

- a. For the purpose of determining site pre-development conditions for previously undeveloped land a maximum runoff curve number of 77 shall be used. Areas with land use and soil types that correlate to a runoff curve number less than 77 shall use the lower runoff curve number for all predeveloped calculations. For redevelopment sites with no previously approved peak flow rate controls, a predeveloped runoff curve number equivalent to the existing conditions of the site may be used. The existing conditions may be determined using historical aerial photos dated 2003 or later.
- b. Hydrologic Soil Group (HSG) classifications are based on undisturbed, naturally occurring soils. During construction, soils are dramatically changed by the removal of topsoil, compaction of the underlying soil profile, and removal of vegetation. The runoff potential of these soils increase; therefore, for post-developed conditions the hydrologic soil group may require adjustment. The Ohio Department of Natural Resources has created a chart, Appendix 9 of the Rainwater Manual, for adjusting the hydrologic soil group following construction. For the disturbance area of a project, the hydrologic soil group shall follow the guidelines set forth by the Rainwater Manual.

Table 3-2: NRCS Runoff Curve Numbers³

Description of Land Use	Hydrologic Soil Group			
	A	B	C	D
Paved parking lots, roofs, driveways	98	98	98	98
Streets and Roads:				
Paved with curbs and storm sewers	98	98	98	98
Gravel	76	85	89	91
Dirt	72	82	87	89
Cultivated (Agricultural Crop) Land:				
With or without conservation treatment (terraces, contours)	62	71	78	81
Pasture or Range Land:				
Poor (<50% ground cover or heavily grazed)	68	79	86	89
Good (50-75% ground cover; not heavily grazed)	39	61	74	80
Meadow (grass, no grazing, mowed for hay)	30	58	71	78
Brush (good, >75% ground cover)	30	48	65	73
Woods and Forests:				
Poor (small trees/brush destroyed by over-grazing or burning)	45	66	77	83
Fair (grazing but not burned; some brush)	36	60	73	79
Good (no grazing; brush covers ground)	30	55	70	77
Open Spaces (lawns, parks, golf courses, cemeteries, etc.):				
Fair (grass covers 50-75% of area)	49	69	79	84
Good (grass covers >75% of area)	39	61	74	80
Commercial and Business Districts (85% impervious)	89	92	94	95
Industrial Districts (72% impervious)	81	88	91	93
Residential Areas:				
1/8 Acre lots, about 65% impervious	77	85	90	92
1/4 Acre lots, about 38% impervious	61	75	83	87
1/2 Acre lots, about 25% impervious	54	70	80	85
1 Acre lots, about 20% impervious	51	68	79	84

3.2 Directly Connected Impervious Area

The runoff volume and peak flow rates for all directly connected impervious areas should be calculated independently of other land uses and disconnected impervious area. Sites with disconnected impervious areas may be permitted to use a composite runoff curve number to determine runoff volumes and peak flow rates. Directly connected impervious areas are those impervious areas that are hydraulically connected to the conveyance system (i.e. streets with curbs, catch basins, storm drains, etc.) and thence to the basin outlet point (i.e. a retention/detention pond, existing storm sewer/ditch system, natural water body, etc.) without flowing over pervious areas. For example, roof drains that are piped to the back of curb, which then flows to a curb and gutter inlet, which conveys the runoff to a storm sewer system that conveys the runoff to a wet detention basin is considered a directly connected impervious area.

³ Chow, Ven Te (1988). *Open Channel Hydraulics*, McGraw Hill, Inc.

3.3 Rainfall Depths and Rainfall Distributions

For peak flow rate analysis, the 12-hour rainfall depths, shown on Table 3-3 from National Oceanic and Atmospheric Administration Atlas 14, Sullivant Avenue Station 33-1781, shall be used.

Table 3-3: 12-hour Rainfall Depths

Storm Event (yr)	Rainfall Depth (in)
1	1.88
2	2.25
5	2.79
10	3.24
25	3.88
50	4.42
100	5.00

The Midwest Climate Center Bulletin 71, Rainfall Frequency Atlas of the Midwest, shall be used as the reference document for selection of a rainfall distribution. For quantitative controls the Bulletin 71, 2nd Quartile, 0-10 square mile, 50% curve, and 12-hour duration storm shall be used. If required for water quality peak flow rate calculations, the 1st Quartile, 0-10 square mile, 50% curve, and 2-hour duration storm shall be used and the runoff curve number shall be calibrated to match or exceed the Ohio EPA water quality volume.

3.4 Low Impact Design

The City supports the use of Low Impact Development (LID) principles consistent with the "Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act", December 2009. Two specific options are available in lieu of the peak flow requirements of this section:

- a. Prevent the off-site discharge of the precipitation from all rainfall events less than or equal to the 95th percentile rainfall event which is 1.17 inches for the City of Grove City. This is accomplished by the use of practices that infiltrate, evapotranspire, and/or harvest and reuse rainwater.
- b. By using continuous simulation modeling techniques, identify the pre-development condition of the site and quantify the post-development runoff volume and peak flow discharges that are equivalent to pre-development conditions. The post-construction rate, volume, and duration of runoff shall not exceed pre-development conditions. The use of flow duration curves is acceptable.

3.5 Time of Concentration Calculation

Use the following formulas to determine predeveloped and post-developed time of concentration with no more than 100' permissible for the overland sheet flow calculation for

both existing and proposed conditions unless it is a paved surface. Time of concentration calculations should be calculated independently for directly connected impervious areas where applicable with a minimum time of concentration of 5 minutes. The time of concentration may include up to three components, overland sheet flow, shallow concentrated flow, and channel flow.

3.5.1 Overland Sheet Flow ($T_{c \text{ sheet}}$)

Overland sheet flow is the shallow mass of runoff over plane surfaces (e.g. parking lots, lawns). Overland sheet flow usually occurs over a short distance at the hind end of a drainage area. NRCS recommends limiting overland sheet flow to 100 feet for unpaved areas. For paved surfaces, the maximum is 300 feet. Use the following equation to estimate $T_{c \text{ sheet}}$:

$$T_{c \text{ sheet}} = 0.014 \left(\frac{nL}{\sqrt{s}} \right)^{0.75}$$

Where:

n = Manning's roughness coefficient for overland flow (see Table 3-4), based on very shallow flow depth of up to 0.10 feet

L = Overland flow path length, ft

s = Slope of overland flow path, ft/ft

Table 3-4: Manning's Roughness Coefficient (n) for Overland or Sheet Flow

Surface description	N
Asphalt and concrete: New Existing	0.016
Cement rubble surface	0.024
Fallow (no residue)	0.05
Cultivated Soils: Residue cover $\leq$ 20% Residue cover $>$ 20% Range (natural)	0.06 0.17 0.13
Grass: Short grass prairie (fields) Dense grasses (lawns)	0.15 0.24
Woods: Light underbrush Dense underbrush	0.40 0.80

⁴ Zomorodi, Kaveh, *Revising the NRCS Sheet Flow Travel Time Equation for Flatlands*, AWRA 2005 Annual Water Resources conference, Seattle Washington.

3.5.2 Shallow Concentrated Flow ($T_{c \text{ shallow}}$)

After a short distance (depending on ground cover, but always less than 100 feet), overland sheet flow starts to concentrate in rills, and then in gullies. This flow is referred to as shallow concentrated flow. The velocity of this flow is estimated using a relationship between velocity and slope. To calculate the shallow concentrated flow time of concentration or $T_{c \text{ shallow}}$, first estimate the velocity of flow using the following equation:

$$V = K_u k \sqrt{S}$$

Where:

V = Velocity of flow, ft/s

S = Slope, ft/ft

k = intercept coefficient (see Table 3-5)

K_u = Units conversion factor, 33

Table 3-5: Intercept Coefficient for Shallow Concentrated Flow⁵

Land cover/flow regime	k
Forest with heavy ground litter; hay meadow	0.076
Trash fallow or minimum tillage cultivation; contour or strip cropped, woodland	0.152
Short Grass Pasture	0.213
Cultivated straight row	0.274
Nearly bare and untilled	0.305
Grassed waterway	0.457
Unpaved	0.491
Paved Area; small upland gullies	0.619

Once velocity has been determined, use the equation below to calculate $T_{c \text{ shallow}}$.

$$T_{c \text{ shallow}} = \frac{L}{60V}$$

Where:

$T_{c \text{ shallow}}$ = Shallow concentrated flow travel time, minutes

L = Flow length, ft

V = Velocity of flow, ft/s

⁵ Iowa Department of Transportation Office of Design, Design Manual, Chapter 4, November 2010. Available from <http://www.iowadot.gov/design/dmanual/04a-05.pdf>

3.5.3 Open Channel Flow ($T_{c \text{ channel}}$)

Open channel flow may consist of gutter flow, pipe flow, or flow through a drainage swale. Various forms of the Manning's equation may be used to estimate the velocity in the channel. Use Table 3-6 for Manning's 'n' value for open channel flow through vegetation and use the following equation to determine a travel time:

$$T_{c \text{ channel}} = \frac{L}{60V}$$

Where:

$T_{c \text{ shallow}}$ = Shallow concentrated flow travel time, minutes

L = Flow length, ft

V = Velocity of flow, ft/s

Table 3-6: Values of Manning's Coefficient (n) for Open Channel Flow⁶

Channel material	Manning's 'n'
Concrete	
Trowel finish	0.013
Float finish	0.015
Concrete bottom with rubble or riprap sides	0.030
Vegetation	
Depth of flow up to 0.7 feet	
Lawns cut 4 to 8 inches	0.070
Good stand cut to 12 inches	0.140
Good stand cut to 24 inches	0.250
Fair stand cut to 12 inches	0.120
Fair stand cut to 24 inches	0.200
Depth of flow from 0.7 to 1.5 feet	
Lawns cut 4 to 8 inches	0.050
Good stand cut to 12 inches	0.100
Good stand cut to 24 inches	0.150
Fair stand cut to 12 inches	0.080
Fair stand cut to 24 inches	0.140
Bare Soil	
Recently completed	0.035
Clean after weathering	0.040

⁶ Iowa Department of Transportation Office of Design, Design Manual, Chapter 4, November 2010. Available from <http://www.iowadot.gov/design/dmanual/04a-05.pdf>

4.0 WATER QUALITY CONTROL CRITERIA

Stormwater qualitative control shall be implemented into sites in accordance with general and specific requirements outlined in the current OEPA's general permit for stormwater discharges associated with construction activity. Water quality BMPs shall be designed according to the latest design standards as set forth by the Ohio Department of Natural Resources Rainwater and Land Development Manual. The Ohio EPA refers to the Ohio Department of Natural Resources (ODNR) Rainwater and Land Development Manual for technical design standards for individual Best Management Practices (BMPs) to meet General Construction Permit requirements. Supplemental information for specific BMPs are contained in this Manual. In addition to the minimum standards set forth by the Ohio EPA, the following additional requirements of the City shall be required.

Dry basins as defined by the ODNR Rainwater Manual and Ohio EPA are not permitted as a water quality BMP within the City unless otherwise approved by the Director of Public Service.

4.1 Ohio EPA Water Quality Permit Supplemental Information

The following sections provide guidance pertinent to the design of water quality BMPs within the City of Grove City.

4.1.1 Water Quality Volume (WQv):

The selected BMP(s) shall be sized to treat the water quality volume and ensure compliance with Ohio EPA General Construction Permit. The WQv shall be equivalent to the volume of runoff from a 0.75-inch rainfall using the following formula.

- a. Standard Equation:

$$WQv = C * P * A / 12$$

Where:

WQv = water quality volume in acre-feet

C = runoff coefficient appropriate for storms less than 1 inch (see Table 4-1)

P = 0.75 inch precipitation depth

A = area draining into the BMP in acres

- b. Alternate runoff coefficient (C) calculation

$$C = 0.858i^3 - 0.778i^2 + 0.774i + 0.04$$

i = percent imperviousness of tributary area

Table 4-1: Water Quality Volume Runoff Coefficients Based on Land Use

Land Use	Runoff Coefficient
Industrial & Commercial	0.8
High Density Residential (>8 Dwellings/Acre)	0.5
Medium Density Residential (4 To 8 Dwellings/Acre)	0.4
Low Density Residential (<4 Dwellings/Acre)	0.3
Open Space And Recreational Areas	0.2

Where the land use will be mixed, the runoff coefficient should be calculated using a weighted average. For example, if 60% of the contributing drainage area to the stormwater treatment structure is low density residential, 30% is high density residential, and 10% is open space, the runoff coefficient is calculated as follows $(0.6)(0.3) + (0.3)(0.5) + (0.1)(0.2) = 0.35$.

Drawdown times are intended to provide both stream channel erosion protection and 80% annual total suspended solids (TSS) removal. BMPs that are a direct tributary to the Scioto River, a 4th Order stream, are not required to provide stream channel erosion protection measures, therefore alternative BMPs that are able to demonstrate 80% TSS removal are acceptable.

Table 4-2: Target Drawdown (Drain) Times for Water Quality BMPs

Best Management Practice	Drain Time of WQv
Infiltration Basin [^]	24 – 48 Hours
Enhanced Water Quality Swale	24 Hours
Wet Extended Detention Basin [*]	24 Hours
Constructed Wetlands (above Permanent Pool) ⁺	24 Hours
Sand & Other Media Filtration	40 Hours
Bioretention Cell [^]	24 Hours
Pocket Wetland [#]	24 Hours
Vegetated Swale and Filter Strip	24 Hours
Pervious Pavement (extended detention)	24 Hours
Pervious Pavement (infiltration)	48 Hours

^{*}Provide both a permanent pool and an EDv above the permanent pool, each sized at 75% of the WQv.

⁺Extended detention shall be provided for the full WQv above the permanent water pool.

[^]The WQv shall completely infiltrate within 24 hours so there is no standing or residual water in the BMP.

[#]Pocket wetlands shall have a wet pool equal to the WQv, with 25% of the WQv in a pool and 75% in marshes. The EDv above the permanent pool shall be equal to the WQv.

4.1.2 Approval for use of proprietary BMPs

Approval of alternative BMPs by the Ohio EPA is required prior to approval from the Director of Public Service except for the following:

- a. For sites less than 5 acres and not part of a larger common development, or a site of any size directly tributary to the Scioto River, alternative BMPs can be approved by the Director of Public Service with sufficient evidence from the manufacturer that the BMP is able to achieve 80% TSS removal on an average annual basis or current state standard.
- b. For sites or larger common developments over 5 acres and not directly tributary to the Scioto River, a 24-hour drawdown time for the water quality volume will be required.

5.0 WATER QUALITY AND DETENTION SYSTEM DESIGN CRITERIA

Although every water quality and peak flow rate control BMP is unique and designed based on specific site conditions, the standards set forth within this section are intended to establish the guidelines for the layout and design of public or residential BMPs within the City of Grove City.

The design of all stormwater BMPs shall conform to the standards set forth within this section and those in Section 4 of this manual. The site and/or construction plans, engineering documents and specifications shall include all pertinent details for any permanent BMP feature.

Table 5-1 provides guidance on the recommended BMPs to use to meet water quality requirements and peak flow rate control requirements. Conditional uses shall seek approval of that particular water quality BMP or peak flow rate control BMP during the Development Plan approval process.

Table 5-1: Water Quality and Peak Flow Rate Control Best Management Practices Applicability

P = Permitted C = Conditional X = Not Permitted	Wet basin	Dry Basin	Wetland Basin	Bioretention	Permeable Pavement Privately Maintained	Permeable Pavement Publicly Maintained	Parking Lot Storage	Infiltration Trench	Sand Filter	Underground Storage	Proprietary Device
Water Quality											
Area of Disturbance < 1 Acre											
Area of Disturbance 1 to 5 Acres	C	C	P	P	P	C	X	C	C	X	C
Area of Disturbance > 5 Acres	P	C	P	P	P	C	X	C	C	X	C ¹
Peak Flow Rate Control											
Multi-Family Residential Privately Maintained	P	C	P	P	P		P	C	C	P	
Single Family Residential Publicly Maintained	P	X	C	P		C		X	X	X	
Commercial & Industrial	P	C	P	P	P	C	P	C	C	P	

¹Permitted if Directly Tributary to Scioto River

5.1 Parking Lot Storage

Parking lot storage is surface storage where shallow wet ponding is designed to flood specific graded areas of the parking lot. Controlled release features are incorporated into the surface drainage system of the parking lot. Parking lot storage is a convenient multi-use structural control method where impervious parking lots are planned. Design features include small wet ponding areas with controlled release by pipe-size and slope, and increased curb heights.

The major disadvantage is the inconvenience to users during the wet ponding function. This inconvenience can be minimized with proper design consideration. Clogging of the flow control device and icy conditions during cold weather are maintenance problems. Parking lot design and

construction grades are critical factors. This method is intended to control the runoff directly from the parking area, and is usually not appropriate for storing large runoff volumes.

Wet ponding areas in parking or traffic areas shall be designed for a maximum potential depth of twelve (12) inches. Flood routing or overflow shall occur after the maximum depth is reached.

The minimum allowable unprotected orifice size is 4" in diameter unless adequate protection to protect it from clogging is provided or the use of vortex flow control valves.

5.2 Water Quality Basins (Wet or Wetland)

Please refer to the latest version of the Ohio Department of Natural Resources Rainwater and Land Development Manual for design specifications.

5.3 Bioretention Basins

For sizing and construction of bioretention basins, please refer to the latest version of the Ohio Department of Natural Resources Rainwater and Land Development Manual.

For the materials to be used in a bioretention basin, supplemental information has been provided for the mulch and bioretention soil. The bioretention soil specification is the most important aspect of the design. An improperly designed soil that lacks sufficient infiltration capacity can have long periods of standing water rendering the basin ineffective and adding stress to the vegetation. Improper organics can also have detrimental consequences on the health of selected vegetation.

5.3.1 Mulch

ORGANIC MULCH: Mechanically chipped, shredded, hammered or ground raw wood material from either hard or soft timber. Mulch shall be free of mold, dirt, sawdust, and foreign and deleterious material and shall not be in an advanced state of decomposition. Mulch shall not contain chipped or shredded manufactured boards or chemically treated wood, including but not limited to wafer board, particleboard, chromated copper arsenate (CCA) or penta treated wood.

- a. Color: Natural, undyed.
- b. Size Range: 3 inches (76 mm) maximum, 1/2 inch (13 mm) minimum.
- c. pH: 6.0 to 7.5.
- d. Salinity: less than 3.0 millimhos per cm (mS / cm).
- e. Carbon: Nitrogen Ratio: less than 36:1.

5.3.2 Bioretention Soil

SAND: Clean, natural sand meeting the requirements of ASTM C 33 for fine aggregate. Other Graduation Characteristics shall fall within the limits specified below:

- a. Fineness Modulus (FM) – 2.5 to 3.1.
- b. Coefficient of Uniformity – 2.5 to 3.5 preferred (<4.1 acceptable).

ORGANIC AMENDMENT: Mature/stable aerobically composted yard debris (green waste) compost, animal manure compost, biosolids compost or compost derived from a combination three of these feedstocks:

- a. pH: 6.0 to 7.5.
- b. Salinity: less than 6.0 millimhos per cm (mS / cm).
- c. Organic Matter: not less than 35% by weight.
- d. Carbon: Nitrogen Ratio: less than 36:1.
- e. Solvita® Maturity Index: between 6 and 7.

The compost shall meet all applicable state regulations based on the feedstock type or U.S. EPA 503 Regulations for bio solids compost.

TOPSOIL (optional): A loamy, friable soil essentially free from heavy or stiff clay lumps, stones, cinders, concrete, brick, roots, sticks brush, litter, plastics, metals, refuse or other deleterious materials in accordance with ASTM D 5268. The soil shall be free of herbicides, petroleum-based materials or other substances of a hazardous or toxic nature which may inhibit plant growth. The soil shall be free of noxious weeds, seeds or vegetative parts of weedy plants that cannot be selectively controlled in the planting.

- a. pH: 6.0 to 8.0.
- b. Salinity: less than 1.5 millimhos per cm (mS / cm).
- c. Organic Matter: 3 to 8% by weight.

The soil shall be taken from a well-drained site and have a USDA soil texture classification of a Clay Loam or Loam.

- a. Existing topsoil at the site may be used provided it meets the requirements of this section for topsoils.
- b. Off-site (borrow) topsoils may be used provided they meet the requirements of this section and their source or location is submitted to and approved by the Engineer or Landscape Architect.

ENGINEERED SOIL MIX: Mix Sand, Organic Amendment and Topsoil components by volume, to obtain Engineered Soil Mix meeting the specified requirements:

- a. pH: 5.5 – 7.5 (ASTM D4972).
- b. Salinity: less than 0.8 millimhos per cm (mS / cm).
- c. Organic Matter: 2 - 10% by weight (ASTM F1647).
- d. Phosphorus: Not to exceed 69 mg / kg.
- e. Cation Exchange Capacity (CEC): Minimum of 10.
- f. Infiltration Rate: 4 to 12 inches per hour (with soil compacted sample to 85% standard proctor), as determined by ASTM F1815 or ASTM D5856.

Mix Design Submittal: Contractor shall submit proposed mix to Director of Public Service for approval prior to final mixing and shipment to project site. Report percentage by volume of Sand, Organic Amendment and Topsoil. Furnish laboratory analysis and a written report, less than six months old, by a qualified testing laboratory stating compliance with the above parameters.

5.4 Infiltration Trenches

Please refer to the latest version of the Ohio Department of Natural Resources Rainwater and Land Development Manual for design specifications.

5.5 Stormwater Treatment Wetlands

Please refer to the latest version of the Ohio Department of Natural Resources Rainwater and Land Development Manual for design specifications.

Use Table 5-2 for approved wetland vegetation within the City of Grove City.

Table 5-2: Approved Wetland Vegetation List

Type	Botanical Name	Common Name
Herbaceous Plants	<i>Sagittaria latifolia</i>	Common Arrowhead
	<i>Saururus cernuus</i>	Lizard's Tail
	<i>Scirpus acutus</i>	Hard-stemmed Bulrush
	<i>Scirpus americanus</i>	Chairmaker's Rush
	<i>Scirpus atrovirens</i>	Dark Green Rush
	<i>Scirpus cyperinus</i>	Wool Grass
	<i>Scirpus pungens</i>	Chairmakers' Rush
	<i>Scirpus tabernaemontani</i>	Soft-stem Bulrush
	<i>Scirpus validus</i>	Great Bulrush
	<i>Solidago ohioensis</i>	Ohio Goldenrod
	<i>Solidago riddellii</i>	Riddell's Goldenrod
	<i>Sparganium americanum</i>	American Bur Reed
	<i>Sparganium eurycarpum</i>	Common Bur Reed
	<i>Verbena hastate</i>	Blue Vervain
	<i>Verbesina alternifolia</i>	Wingstem
Shrubs	<i>Amphora furicosa</i>	Indigo Bush
	<i>Rosa palustris</i>	Swamp Rose
	<i>Cephalanthus occidentalis</i>	Buttonbush
	<i>Cornus amomum</i>	Silky Dogwood
	<i>Cornus sericea</i>	Red Oiser Dogwood
	<i>Ilex verticillata</i>	Winterberry
	<i>Salix amygdaloides</i>	Peachleaf Willow
	<i>Salix discolor</i>	Pussy Willow
	<i>Salix sercea</i>	Silky Willow
	<i>Spiraea tomentosa</i>	Steeple Bush

5.6 Sand Filters

Please refer to the latest version of the Ohio Department of Natural Resources Rainwater and Land Development Manual for design specifications.

5.7 Permeable Pavement

For general requirements of pervious pavement systems, please refer to the latest version of the Ohio Department of Natural Resources Rainwater and Land Development Manual. For structural design refer to the Interlocking Concrete Pavement Institute (ICPI), Permeable Interlocking Concrete Pavements Design Manual, Chapter 37.

To meet Ohio Department of Natural Resources Rainwater Manual guidance, maximum ratio of impervious area draining onto the surface area of the pervious paver system shall be no greater than 2:1 especially in areas with high potential for organic contaminants such as leaves and tree nuts for example. Higher ratios up to 5:1 may be permissible on a case by case basis for areas with minimal contamination potential.

For all pervious pavement systems, do not use sand or cinders for deicing. Moreover, when this green infrastructure practice is used in areas with potential for organic matter to accumulate such as nuts and leaves, monthly maintenance using a vacuum/regenerative air sweeper may be required during growing season.

For frost depth considerations, the pavement thickness from surface to subgrade is recommended to be $\frac{1}{2}$ of the frost depth; however research has shown that as long as there is sufficient void space for water to expand (9%), it can freeze without movement (Smith, p. 23).⁷ For Central Ohio, the frost depth is approximately 34"; therefore a minimum section thickness of 17" should be used.

It is recommended that impervious areas sheet flow onto pervious asphalt surfaces and not be point loaded onto a small area. The maximum surface slope for pervious asphalt surface is 5% (Smith, p. 14).⁸

The following information is in addition to the ODNR guidelines providing additional detail on the use of various types of pavement systems.

5.7.1 Pervious Pavement Stone Aggregate

- a. Aggregates should be crushed with minimum 90% fractured faces and a minimum Los Angeles (LA) abrasion <40 per ASTM C131 and C535 (Smith, p. 28).⁹
- b. All shall be clean, washed and free of fines with <2% passing the No. 200 sieve per ASTM C 136 (Smith, p. 28).¹⁰
- c. A porosity of at least 30% for the No. 8, 89, or 9 jointing material using ASTM C 29 (Smith, p. 28).¹¹
- d. A porosity of at least 32% for the No. 57 bedding and No. 2, 3, or 4 subbase and base layers approximately using ASTM C 29 (Smith, p. 28).¹²
- e. No. 8 Setting Bed Material: Narrowly graded mixture of washed, crushed stone, or crushed gravel; in accordance with CMSC Section 703.01; coarse-aggregate grading Size 8; with 100 percent passing a $\frac{1}{2}$ -inch (12.5-mm) sieve and 0 to 5 percent passing a No. 16 (1.18-mm) sieve. Setting bed material shall be installed with a

⁷ Smith, David R., *Permeable Interlocking Concrete Pavements*, Interlocking Concrete Pavement Institute, Herndon, VA, Fourth Edition, 2011.

⁸ Ibid

⁹ Ibid

¹⁰ Ibid

¹¹ Ibid

¹² Ibid

screed to the maximum extent possible to achieve a level surface for placement of pervious paver clay or concrete bricks.

- f. No. 8, 89, or 9 jointing material: Narrowly graded mixture of washed, crushed stone, or crushed gravel; in accordance with CMSC Section 703.01; coarse-aggregate grading Size 8; with 100 percent passing a 1/2-inch (12.5-mm) sieve and 0 to 5 percent passing a No. 16 (1.18-mm) sieve; grading Size 89; with 100 percent passing a 1/2-inch (12.5-mm) sieve and 0 to 10 percent passing a No. 16 (1.18-mm) sieve; grading Size 9; with 100 percent passing a 3/8-inch (9.5-mm) sieve and 0 to 10 percent passing a No. 16 (1.18-mm) sieve.
- g. No. 57 Bedding Layer: Narrowly graded mixture of washed, crushed stone, or crushed gravel; in accordance with CMSC Section 703.01; coarse-aggregate grading Size 57; with 100 percent passing a 1 1/2-inch (37.5-mm) sieve and 0 to 5 percent passing a No. 8 (2.36 mm) sieve.
- h. No. 2, 3 or 4 Subbase and Base Layer: Narrowly graded mixture of washed, crushed stone, or crushed gravel; in accordance with CMSC Section 703.01; coarse-aggregate grading Size 2 with 100 percent passing a 3-inch (100-mm) sieve, 0 to 5 percent passing a 3/4-inch (19-mm) sieve, and less than 2 percent passing the No. 200 sieve. Grading size 3 with 100 percent passing the 2 1/2-inch (63 mm) sieve, 0 to 5 percent passing a 1/2 inch (12.5 mm) sieve, and less than 2 percent passing the No. 200 (75 um) sieve. Grading size 4 with 100 percent pass the 2-inch (50 mm) sieve, 0 to 15 percent passing the 3/4-inch (19 mm) sieve, and less than 2 percent passing the No. 200 (75 um) sieve.
- i. Compaction of the bedding, subbase, and base layers of material shall be done with a 10-12 ton vibratory roller with aggregate lifts of no more than 6 inches. Compaction of the setting bed material is not required except after placement of pavers and jointing material using walk behind compaction equipment.
- j. The compaction of aggregates will be determined by testing with a Light Weight Deflectometer (LWD) apparatus, in accordance with Indiana Department of Transportation Test Method (ITM 508 12T. More specifically, the preferred testing device is a Zorn ZFG 3.0 Light Weight Deflectometer.

The maximum allowable deflection will be in accordance with Table 5-3.

Table 5-3: Aggregate Compaction Allowable Deflection

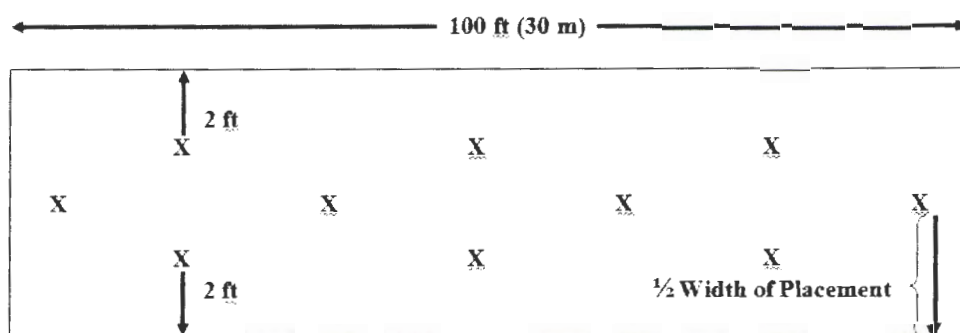
Material Type	Maximum Allowable Deflection (mm)
Lime Modified Soil	0.30
Cement Modified Soil	0.27
Aggregates over Lime Modified Soil	0.30
Aggregates over Cement Modified Soil	0.27

For materials not included in Table 5-3, a test section shall be constructed to determine the maximum allowable deflection with the maximum deflection of open graded aggregates typically being in the 0.40 to 0.50 mm range with a resulting stiffness of over 45 MPa.

Test sections shall be constructed in the presence of the Engineer with the available equipment of the Contractor to determine the roller type, pattern, and number of passes for the maximum allowable deflection.

The Engineer will select an area approximately 100 ft (30 m) by the width of the material placed for the test section. Areas not meeting these minimum testing area criteria will be considered. The subgrade shall be proof rolled in accordance with CMSC Item 204 prior to construction of the test section for aggregates and the geotextile, geogrid, and/or geomembrane used for the installation installed on the subgrade. Chemically modified soils shall be cured at least 24 hours prior to testing of the test section.

One moisture test will be performed in accordance with AASHTO T 255 for aggregates prior to compaction of the test section. The moisture content value shall be within -3 percentage points of optimum moisture content and the optimum moisture content prior to placement. Ten LWD tests will be performed on the test section at the following approximate locations:



Aggregate Test Section with LWD only - A test section shall be constructed and LWD testing will be performed to determine the maximum allowable deflection if only the LWD is used. The roller shall be operated in the vibratory mode and initially 4 passes shall be placed on the aggregate in the test section. The average deflection of the 10 random tests will be determined after completion of the 4 passes. One additional pass of the roller in the vibratory mode shall be made and 10 LWD tests will be taken at the same locations. If the difference between the average LWD test values obtained from 4 and 5 passes is equal to or less than 0.02 mm, the compaction will be considered to have peaked and the average of the 10 LWD values at 5 passes will be used as the maximum allowable deflection. If the difference between the average LWD test values is greater than 0.02 mm, an additional roller pass in the vibratory mode shall be placed and 10 LWD tests will be taken at the same locations. This procedure will continue until the difference of the average of the 10 LWD tests between consecutive roller passes is equal to or less than 0.02 mm. The maximum allowable deflection will be the lowest average of the 10 LWD test values.

Acceptance of the compaction of aggregates or chemically modified soils will be determined by averaging three LWD tests obtained at a random station determined by the Engineer. The location of the three tests will be at 2 ft. from each edge of the construction area and at 1/2 of the width of the construction area. The average deflection shall be equal to or less than the maximum allowable deflection allowed in Table 5-3 or determined by the test section. The frequency of testing will be one test for each 800 ft for compacted aggregate.

If the average deflection is not equal to or less than the maximum allowable deflection, a moisture test will be performed. Additional LWD tests will be taken at the same locations after 24 hours and the material will be accepted if the LWD tests are equal to or less than the maximum allowable deflection. Otherwise additional compaction may be required.

5.7.2 Pervious Interlocking Concrete Pavers

Pervious pavers can be used on any surface ranging from pedestrian plazas, low speed roadways to heavy industrial and shipping yards. Pervious pavers are not recommended for high speed roadways with posted speed limits above 25 MPH or high volume roadways.

- a. Pervious concrete pavers are referred to as Permeable Interlocking Concrete Pavements (PICP) in the paver industry. PICP shall conform to ASTM C936 which limits length-to-thickness ratio to no more than 4:1 to provide interlocking effect. It also limits face area to no more than 101 sq. in.
- b. A minimum average compressive strength of 10,000, psi is preferred with no individual unit testing less than 9,200 psi. At a minimum be resistant to freeze/thaw durability when tested according to CSA A231.2 which is the Canadian version of ASTM C1645.
- c. For vehicular applications, the majority of the pavers shall have a minimum joint width of 10 mm or larger as joint widths less than 10 mm are harder to maintain, require a smaller stone chip that is more susceptible to washing out or migrating into the underlying No. 57 aggregate. Smaller joints associated with soldier courses or other embedded pavers are acceptable.
- d. "L" shape pavers shall be used in all public roadway driving lanes.. Other geometries may be used for soldier courses, replacement for striping, parking lanes, parking lots, alleys, sidewalks, and other non-vehicular use applications.
- e. All paver areas shall have concrete edge restraints.
- f. PICP structural design for vehicular applications requires a minimum soil CBR (96-hour soaked per ASTM D 1883 or AASHTO T 193) of 4%, or a minimum R-value = 9 per ASTM D 2844 or AASHTO T-190, or a minimum Mr of 6,500 psi per AASHTO T-307 to qualify for use under vehicular traffic. Compaction or treatment of the subgrade with cement, lime, or lime/flyash may be required to achieve at least 4% soaked CBR. Expansive soils will need to be treated and will significantly reduce the infiltration capabilities of the native soil. (Ref: Smith Chapter 3)
- g. The pavement system from surface to subgrade should be designed using the 1993 AASHTO Method for flexible pavements. The paver and setting bed have a structure layer coefficient of 0.30. The No. 57 aggregate has a structural layer coefficient of 0.09. The No. 2, 3 or 4 aggregates have a structural layer coefficient of 0.06. Care should be taken to obtain a subgrade CBR value and an estimation of traffic load. When a CBR value is not available use a value of 3 (Smith, Chapter 3).¹³

¹³ Smith, David R., *Permeable Interlocking Concrete Pavements*, Interlocking Concrete Pavement Institute, Herndon, VA, Fourth Edition, 2011

- h. The soldier course paver shall be a full-length rectangular pervious paver brick of the same thickness as the main system capable of accepting a No. 8, 89, or 9 chip material.
- i. Color and finish are important decisions that need to be considered during the design process. Specialized face mixes can provide enhanced color durability to prevent fading and alternative textures for specialized applications.

5.7.3 Pervious Clay Brick Pavers

Pervious clay brick pavers are 2¾ inch thick solid interlocking paving units made of fired clay that allows water to flow through joints between the individual paving units. The joints are filled with open graded, small aggregate to allow for the units to interlock and still provide void space for the water to flow through.

Pervious clay brick pavers may be used in all areas where traditional pavement would be considered for pedestrian use. In addition, pervious clay brick pavers may be used in low volume and low speed (less than 25 MPH) vehicular use areas such as public roads, parking lots and roadside parallel parking.

- a. Clay brick pavers are categorized as ASTM C902 for Pedestrian and Light Traffic Paving Brick or ASTM C1272 for Heavy Vehicular Paving Brick. Provide joint widths of at least 6 mm to allow for adequate infiltration capacity. If clay pavers are to be used in roadway applications, the setting bed shall be No. 8 stone and the joints filled to the maximum extent practical with the larger of No. 8, No. 89, or No. 9 stone.
- b. At a minimum be resistant to 50 freeze and thaw cycles when tested according to ASTM C67.
- c. All paver areas shall have concrete edge restraint.
- d. Structural design for vehicular applications assumes a minimum soil CBR (96-hour soaked per ASTM D 1883 or AASHTO T 193) of 4%, or a minimum R-value = 9 per ASTM D 2844 or AASHTO T-190, or a minimum Mr of 6,500 psi per AASHTO T-307 to qualify for use under vehicular traffic. Compaction or treatment of the subgrade with cement, lime, or lime/flyash may be required to achieve at least 4% soaked CBR. Expansive soils will need to be treated and will significantly reduce the infiltration capabilities of the native soil (Smith, Chapter 3).¹⁴
- e. The pavement system from surface to subgrade should be designed using the 1993 AASHTO Method for flexible pavements. The paver and setting bed have a structure layer coefficient of 0.30. The No. 57 aggregate has a structural layer coefficient of 0.09. No. 2, 3, or 4 aggregates have a structural layer coefficient of 0.06. Care should be taken to obtain a subgrade CBR value and an estimation of traffic load. When a CBR value is not available use a value of 3 (Smith, Chapter 3).¹⁵

¹⁴ Smith, David R., *Permeable Interlocking Concrete Pavements*, Interlocking Concrete Pavement Institute, Herndon, VA, Fourth Edition, 2011

¹⁵ Ibid

- f. Pavers shall be laid in a herringbone pattern to increase interlocking stability.
- g. The soldier course paver shall be a full-length rectangular pervious paver brick of the same thickness as the main system capable of accepting a No 8, 89, or 9 chip material.
- h. Color and finish are important decisions that need to be considered during the design process.

5.7.4 Pervious Concrete

Pervious concrete is a type of pervious pavement that when cast has between 15-25% void space within the concrete. These void spaces are interconnected so that water and air are able to pass through from the top surface of the concrete down into aggregate storage layers below. Pervious concrete does not contain fine aggregates and is sometimes referred to as 'no-fines' concrete. Coarse aggregate, Portland cement, water and admixtures are the component materials of pervious concrete.

Pervious concrete may be used in all areas where traditional concrete would be considered for pedestrian use. In addition, pervious concrete may be used in vehicular use areas such as parking lots and roadside parallel parking. It is not recommended for travel lanes on public roadways, but has been successful in low volume residential streets and alleys. Pervious concrete shall comply with current editions of ACI 522.1 and ASTM C94.

- a. A model specification and structural design guidance is available from the Ohio Ready Mixed Concrete Association with the following exceptions:
 - 1. Wet cure with UltraCure by McTech Group or equivalent;
 - 2. Placement of concrete should be done with a hydraulically actuated pipe roller and;
 - 3. Joints shall be saw-cut; rolled joints are not to be permitted.¹⁶
- b. Slump tests and traditional strength tests cannot be used with pervious concrete. Testing shall be for density (unit weight), void content and thickness. These tests include ASTM C 172, ASTM C 29, ASTM C 42 and ASTM C 1688.
- c. All pervious concrete areas shall have concrete edge restraints.
- d. Structural design for vehicular applications assumes a minimum soil CBR (96-hour soaked per ASTM D 1883 or AASHTO T 193) of 4%, or a minimum R-value = 9 per ASTM D 2844 or AASHTO T-190, or a minimum Mr of 6,500 psi per AASHTO T-307 to qualify for use under vehicular traffic. Compaction or treatment of the subgrade with cement, lime, or lime/flyash may be required to achieve at least 4% soaked CBR. Expansive soils will need to be treated and will significantly reduce the infiltration capabilities of the native soil (Smith, Chapter 3).¹⁷

¹⁶ Maloney, M. (2013). Pervious pavement as public infrastructure [Powerpoint slides].

¹⁷ Smith, David R., *Permeable Interlocking Concrete Pavements*, Interlocking Concrete Pavement Institute, Herndon, VA, Fourth Edition, 2011

- e. Pervious concrete can be colored with pigment during the mixing process and should be considered during the design process.

5.7.5 Pervious Asphalt

Pervious asphalt is a type of asphalt with approximately 16-20% air void space within the asphalt after installation. These void spaces are interconnected so that water and air are able to pass through from the top surface of the asphalt down into aggregate storage layers below. Pervious asphalt does not contain fine aggregates smaller than a No. 8 aggregate. A polymer modified asphalt binder (6%) is the main component that differentiates standard asphalt from pervious asphalt. Pervious asphalt has been around since the early 1970s and was previously referred to as open graded friction course and used on highways to reduce road spray.

Pervious asphalt may be used in all areas where traditional asphalt would be considered for pedestrian use. In addition, pervious asphalt may be used in low volume and low speed (less than 25 MPH) vehicular use areas such as parking lots and roadside parallel parking. It also has been successful in low volume residential streets and alleys.

- a. The ODNR considers The University of New Hampshire Stormwater Center (UNHSC) Design Specification for Porous Asphalt Pavement a reliable specification for pervious asphalt mix design.¹⁸
- b. Pervious asphalt structural design for vehicular applications assumes a minimum soil CBR (96-hour soaked per ASTM D 1883 or AASHTO T 193) of 4%, or a minimum R-value = 9 per ASTM D 2844 or AASHTO T-190, or a minimum Mr of 6,500 psi per AASHTO T-307 to qualify for use under vehicular traffic. Compaction or treatment of the subgrade with cement, lime, or lime/flyash may be required to achieve at least 4% soaked CBR. Expansive soils will need to be treated and will significantly reduce the infiltration capabilities of the native soil. (Smith, Chapter 3).¹⁹
- c. The pavement system from surface to subgrade should be designed using the 1993 AASHTO Method for flexible pavements. The No. 57 aggregate has a structural layer coefficient of 0.09. No. 2, 3, or 4 aggregates have a structural layer coefficient of 0.06. Care should be taken to obtain a subgrade CBR value and an estimation of traffic load. When a CBR value is not available use a value of 3 (Smith, Chapter 3).²⁰

¹⁸ University of New Hampshire Stormwater Center (2009). *Design specifications for Porous Asphalt Pavement and infiltration Beds*.

¹⁹ Smith, David R., *Permeable Interlocking Concrete Pavements*, Interlocking Concrete Pavement Institute, Herndon, VA, Fourth Edition, 2011

²⁰ Ibid

5.8 Underground Storage

Underground storage may be used to provide storage volume to meet the peak control rate requirements, but shall not be used to provide water quality on its own unless coupled with an approved water quality BMP.

- a. Adequate flood routing shall be provided if the system becomes clogged or surcharges onto the surface.
- b. The minimum allowable unprotected orifice size is 4" in diameter unless adequate protection is provided to protect it from clogging or the use of vortex flow control valves.
- c. The maximum ponding depth at any point in the parking lot is 12" for the 100-year storm.
- d. The use of perforated pipe to maximize storage volume in the surrounding stone backfill is not permitted without an approved pretreatment device.

6.0 WET BASIN DESIGN STANDARDS

Although every wet basin is unique and designed based on specific site conditions, the standards set forth within this section are intended to establish the guidelines for the layout and design of wet basins within the City.

6.1 Existing Wet Basin Investigation Requirements

When existing wet basins are proposed to become part of a stormwater management system to meet peak flow rate and water quality requirements and to be incorporated into a development the following information is required:

- a. Photos of the existing basin.
- b. Bathymetry Survey.
- c. Discussion of the current conditions, including the presence of trees, inlet/outlet structures, etc.
- d. A proposed usage description outlining any changes, including increased embankment height, inlet/outlet structures, etc.
- e. Stone facing shall be installed on all existing and proposed basin inlet and outlet structures per Figure 6-4.

6.2 Dam Safety Classifications

All dams shall adhere to the State of Ohio's Dam Safety Regulations (Title XV, Chap. 1521 of the Ohio Revised Code, Rule 1501:21-13-01).

The following dam types do not require construction permits per Ohio Dam Safety Laws, Section 1521.06:

- a. A dam that is or will be less than 10 feet in height and greater than 6 feet and that has or will have a storage capacity of not more than 50 acre-feet at the elevation of the top of the dam, as determined by the ODNR Chief. For the purposes of this section, the height of a dam shall be measured from the natural stream bed or lowest ground elevation at the downstream or outside limit of the dam to the elevation of the top of the dam.
- b. A dam, regardless of height, that has or will have a storage capacity of not more than 15 acre-feet at the elevation of the top of the dam.
- c. A dam, regardless of storage capacity, that is or will be 6 feet or less in height.
- d. A dam, dike or levee that belongs to a class exempted by the ODNR Chief.

6.3 Outlet/Inlet Treatment

a. Submerged Outlet/Inlet Structures

The City encourages the use of submerged storm pipes in lieu of exposed outlet/inlet structures. Submerged Outlets may consist of a siphon pipe where such pipe is no smaller than 6 inches in diameter (refer to Figure 6-2). Inlet pipes that are equal to or larger in

diameter than 36 inches should be submerged to at least the “springline” of the pipe (i.e., normal pool at a depth equal to the elevation at one-half the diameter of the pipe). The City requires the remaining exposed portion of pipe headwall include stone-facing (refer to Figure 6-4). When an inlet pipe is at least partially submerged at the wet basin, the conditions listed below shall also be met.

1. Submergence of inlet pipes is limited to the next upstream manhole or catch basin along the storm sewer system.
2. All lengths of submerged storm pipe shall include “O-ring” sealed gasket pipe joints.
3. All lengths of the submerged storm pipe shall have bedding and backfill material consistent with the compacted embankment material.

b. Riser Outlet Structures

Catch basins/manholes used as the outlet structures may have a maximum elevation that is no more than 1.5 feet above the normal pool elevation and may include windows and grate-top openings. Where a catch basin is used as a second-stage outlet structure, the slope of the pond embankment must be graded to reduce the visibility of the structure.

c. Structure Requirements

All headwall structures shall be in accordance with City of Grove City Standard Drawing C-GC-24 (36-inch diameter or less) or City of Columbus Standard Drawings AA-S167 (greater than 36-inch diameter). All riser structures shall be in accordance with City of Grove City Standard Drawing C-GC-4 (modified as necessary).

d. Bedding/Backfill Material

The bedding and backfill material for all storm pipe outlets shall consist of 100 percent cohesive embankment material or controlled-density fill. Where inlet storm pipes are submerged, bedding and backfill material for those pipes shall consist of 100 percent cohesive embankment material to the next structure upstream along the storm sewer system.

e. Anti-Seep Collars

Anti-seep collars shall be used at all outlet storm pipe locations and shall be located (spaced) and sized in accordance with the criteria provided below. All anti-seep collars shall be constructed with material that provides a watertight connection to the pipe and is of a material that is compatible to the pipe. Anti-seep collars shall also be used along the submerged portion of any storm inlet pipes.

The anti-seep collars shall be located along the length of the outlet pipe within the saturation zone of the embankment (refer to Figure 6-1), at approximately equal spacing and at intervals not exceeding 25 feet. The saturation zone is considered to extend through the embankment from the elevation of the riser (normal pool) to the downstream embankment toe.

The anti-seep collars shall be designed to increase the length along the line of seepage (along the outlet pipe) by at least 15 percent. The proper design of the anti-seep collars may be achieved by either:

1. Selecting the number of collars and determining the minimum projection of the collar away from the outlet pipe: $V = 0.075 \times (L/N)$; or
2. Selecting the projection of the collar away from the outlet pipe and
3. Determining the minimum number of collars: $N = 0.075 \times (L/V)$.

f. Wall/Façade Appearance

All headwalls, endwalls, catch basins or exposed structures within the pond are required to include natural or manufactured stone facing on the exposed faces of the structure. Stone is to be north shore buff limestone. Alternate selections must be approved by the City Service Director. A sample pallet is to be submitted to the City's Service Director for approval. Refer to Figure 6-4 for a graphical representation of the required stone facing detail and related features.

g. Emergency Spillways

Emergency Spillways should meet all of the following criteria unless they are located in areas where a basin is not located adjacent to a stream or roadway, in which case, an emergency spillway is then not required. However, an adequate flood routing path is required from the basin.

1. They shall not operate (convey flow) for any routed design storm less than the 50-year event.
2. They shall be reinforced with concrete or designed erosion control materials (geotextiles) consisting of 100 percent synthetic, non-biodegradable materials (the plans should include a specification for the intended geotextile, referencing the required physical properties or the specific material). Reference the State of Ohio, Department of Transportation Construction and Material Specifications Section 712.11, Type "E".
3. They shall be designed to pass the 50-year peak inflow to the basin on its own without attenuation (the plans shall include a detail demonstrating the necessary dimensions of the control section, both width and breadth).

h. Miscellaneous

The following general criteria must be met:

1. Roof drain (downspout) outlets directly to a wet basin are not permitted.
2. All orifice plates may conform to the requirements of City of Columbus Standard Drawing, No. AA-S145. The minimum allowable installed orifice size is 4 inches in diameter unless protected by a means acceptable to the City.
3. All inlet structures (e.g., pipe headwalls) shall be recessed into the adjoining wet basin grading to diminish the amount the structure is visible.

6.4 Basin Grading

Refer to Figure 6-1 for a graphical representation of the required pond grading and related features.

6.5 Geotechnical Considerations

Design of wet basin liners and embankments shall be by a qualified geotechnical engineer or geologist to design the liner. Acceptable soils used in wet basin liners or embankments shall meet the following minimum criteria:

- a. Free of large rocks, roots, limbs and other deleterious materials which would adversely affect the design integrity of the liner.
- b. Classified under the Unified Soil Classification System as CL, CH or SC.
- c. Minimum 15% passing the No. 200 sieve.
- d. Have a plasticity index (PI) ≥ 15 .
- e. Have a laboratory permeability of 1×10^{-6} cm/sec or less based on a minimum of two undisturbed core (tube) samples taken from the liner.

1. Wet Basin Liner

Wet basin liners consisting of acceptable soils as described above shall be a minimum of 2 feet in thickness. Localized granular, organic, or other deposits (which would be sources for wet basin leakage) shall be removed and replaced with suitable soils. Disking of up to 6 inches of surface material for re-compaction is acceptable, if necessary. The material shall be compacted at optimum moisture content to (but not exceeding) 3 percent above optimum moisture content in loose lifts not to exceed 8 inches in thickness. The installation of wet basin liners shall be under the supervision of a geotechnical engineer, geologist or other City of Grove City approved entity who shall certify that the liner was installed in accordance with this policy. Alternative wet basin liners accompanied by a geotechnical report may be used upon review and approval by the City of Grove City. These include, but are not limited to poly-liners (minimum 30 mil) and bentonite (typically 1 to 3 lb/ft²).

2. Embankment Materials

All outlet embankment materials shall consist of cohesive soils compacted to a minimum of 98 percent of the maximum density obtainable with the Standard Proctor Test method (ASTM Standard D-698). Certified test results shall be submitted to the City prior to installation or the test is to be performed at the time of installation, in the presence of the City or its assigned representative. The compacted outlet embankment shall be free of vegetative material and other construction debris. The engineering plan shall include notes and other references regarding the conditions and requirements for construction of the outlet embankment, including design information for a key trench, if necessary.

6.6 Shoreline Protection

Shoreline protection shall be installed below and above the normal pool elevation of the basin to prevent erosion along the perimeter. The protection shall be comprised of a 6" depth of 1" to 3" diameter, clean and washed limestone cobbles or tied concrete block matting per ODOT Item 601. Refer to Figure 6-1 for a graphical representation of the required shoreline protection features.

6.7 Wet Basin Amenities

When developing wet basins, it is the intent of the City to incorporate features within the basin as amenities to the development. The following amenities may be required to be included with the basin design at the discretion of the City.

6.7.1 Observation/Fishing Platform

Any wet basin that includes an incoming stormwater pipe of 30 inches or greater may be required to include at least one platform made of wood or other material. The size of the platform shall be a minimum of 10' x 10'.

6.7.2 Walkway

Installation of an 8-foot minimum bituminous walkway around the circumference of the wet basin edge for wet basins within residential subdivisions. The walk may be at generally the same elevation around the wet basin but shall vary in distance from the normal water surface. The construction of the path will be in conformance with City Standard Specifications.

6.7.3 Landscape

All basins are required to meet the minimum standards for landscape plantings based upon information provided within the City's codified ordinances. All disturbed areas are to be stabilized per the requirements outlined within Section 10.0 of this manual.

6.7.4 Fountains and Aerators

For wet basins are to include one (1) fountain for every $\frac{3}{4}$ of an acre of surface area. In addition, the basin must include an air diffuser below the fountain to improve water circulation and quality.

6.7.5 Depth of Water Surface Elevation

The water surface elevation is a critical aspect of the general aesthetics of a wet basin. For this reason, the proposed water surface elevation for wet basins within residential subdivisions

and publicly viewed private developments shall not be any lower than 5-feet below any adjoining roadway or viewing area, so long as adequate freeboard is available for stormwater detention. The viewing area is defined as the level area above the freeboard of the wet basin. This area may be comprised of the finished floor elevation of the homes nearest to the wet basin or the finished grade between the nearest homes.

6.7.6 Trash Racks

At a minimum, all outlet structures shall have a grate to prevent large debris from passing through. Trash racks may be constructed from galvanized metal (rebar) and shall meet the specifications provided below.

- a. Catch basin riser structures shall have imbedded rebar at all window openings with a height of 1-foot or greater, spacing not to exceed 4-inches, and a pre-fabricated grate top.
- b. Pipe and headwall structures shall have a fabricated galvanized metal grate of the type similar to that shown on Figure 6-3. The City, upon review, may approve other types and forms of trash racks.

6.7.7 Wet Basin Vegetation

The City permits the planting of wetland species vegetation within designated areas of a wet basin for purposes of general water quality considerations or as mitigation in conformance with the requirement for State of Ohio 401 Water Quality Certification. The wetland planting area must not exceed 50 percent of the total pond surface area. Refer to Table 5-2 for a listing of acceptable wetland species vegetation. Deviation from the plants listed in Table 5-2 must be submitted to the City's Urban Forester and Engineer for approval.

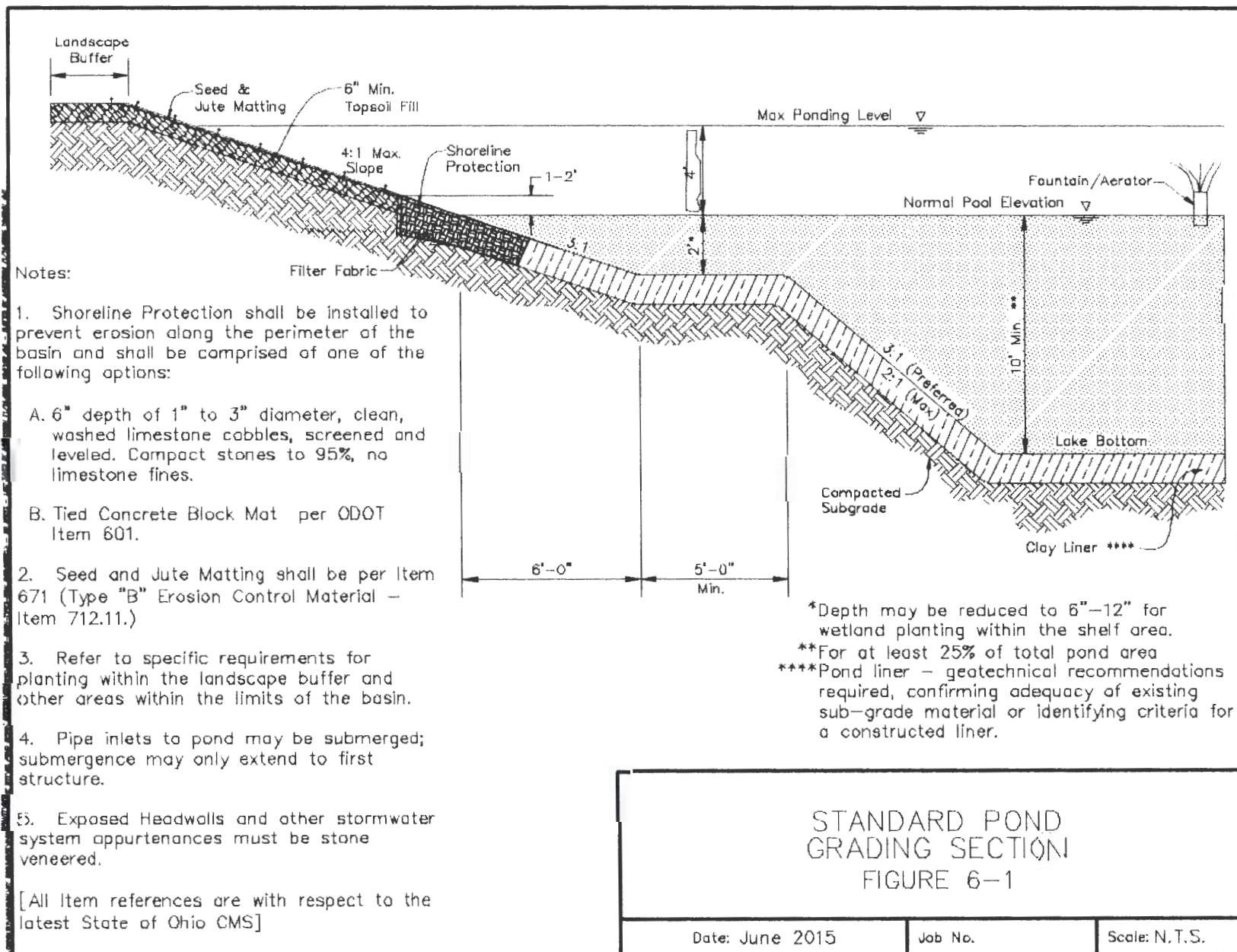
6.8 Wet Basin Maintenance

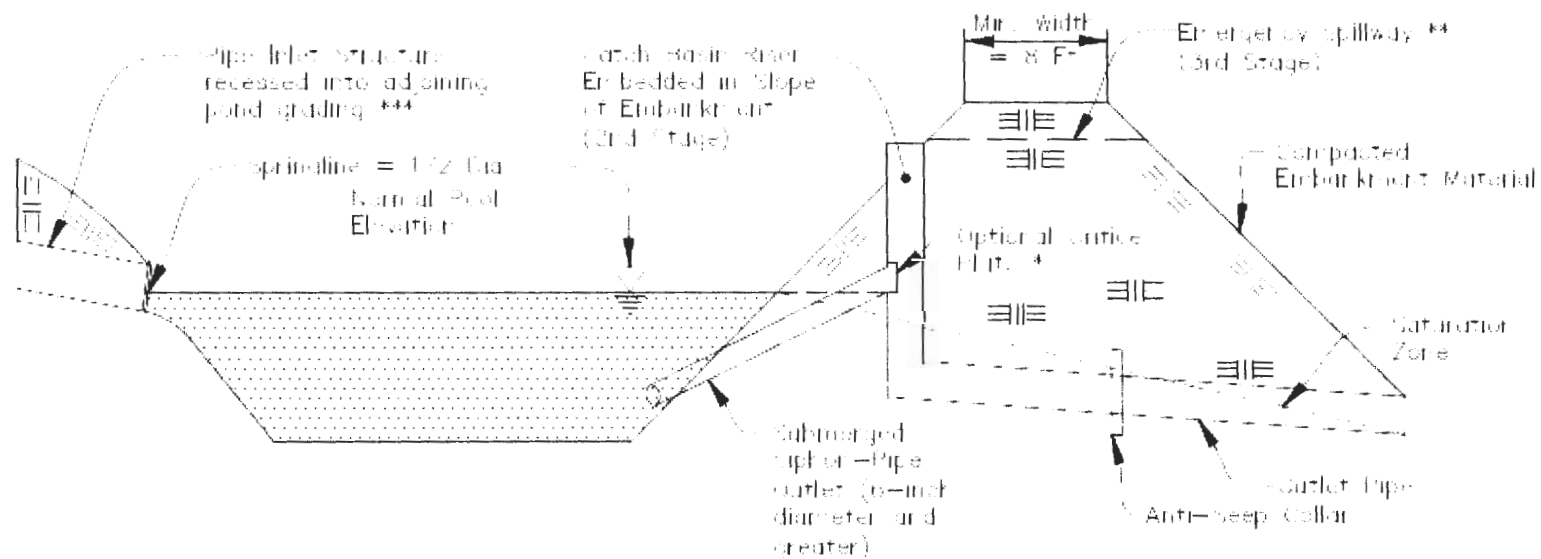
6.8.1 Treatment of Algae

The use of herbicides/pesticides to control the growth of aquatic vegetation is regulated by the State of Ohio. Private or public wet or wetland basins that are within the regulatory jurisdiction of the State of Ohio are subject to the criteria of the Ohio Surface Water Regulations (Ohio Administrative Code 3745-1 Water Quality Standards), pertaining to the application of chemicals. Refer to the Ohio State University Extension fact sheet associated with notifying the Ohio EPA prior to applying aquatic herbicides in ponds for additional information.

6.8.2 Goose Control

Stormwater basins are often constructed with mowed turf grass around the perimeter making it an ideal habitat for geese as they can walk into and out of wet basins easily to forage on grass and escape back to the water when threatened. Tall vegetation at the edge of the pond can discourage geese as they are not able to see through the taller grass and are less likely to venture out of pond to forage. Another up and coming solution is to plant turf type grasses that do not taste well to geese, which discourages their use of the pond and they will seek other areas. Such grasses include Titan Limited, Turf-type Tall Fescue or Jacklin Pixie.





* Refer to City of Columbia Std
Dwg. AA-5.45

** Reinforced with Erosion Control
Material

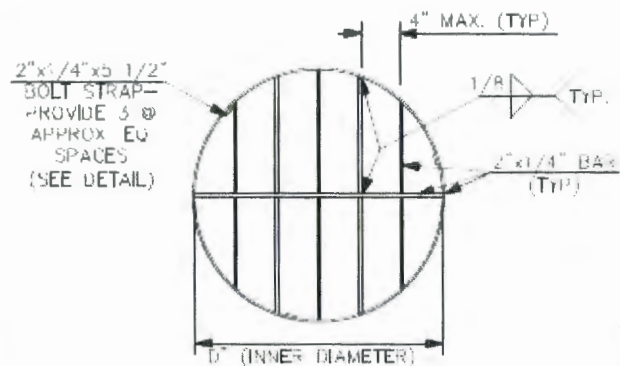
*** Pipe inlet $\geq$ 36-inch in
diameter must be submerged to
the springline

SUBMERGED OUTLET AND
EMBANKMENT DETAIL
FIGURE 6-2

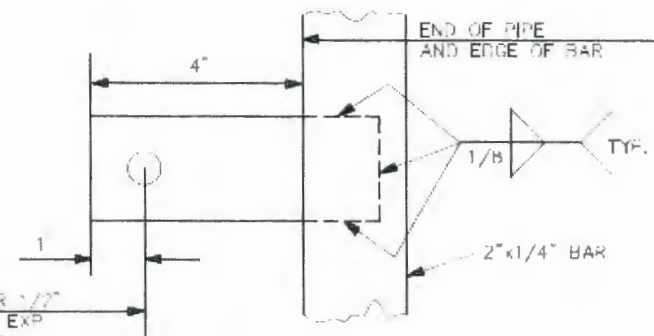
Date: May 2015

Job No.

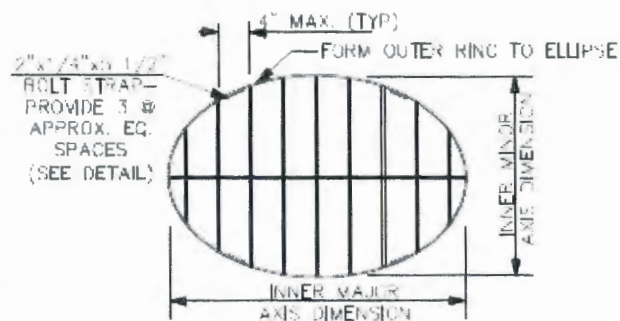
Scale: N.T.S.



SAFETY GRATE DETAIL



BOLT STRAP DETAIL



SAFETY GRATE DETAIL

Riverside Drive and Hannah Hills Drive

Notes:

- 1 Grates shall be fabricated from ASTM A-36 steel and be galvanized in accordance with CMS 711.02.
- 2 Geometry, size and shape may be revised to accommodate box culvert outlets

TRASH RACK DETAIL
FIGURE 6-3

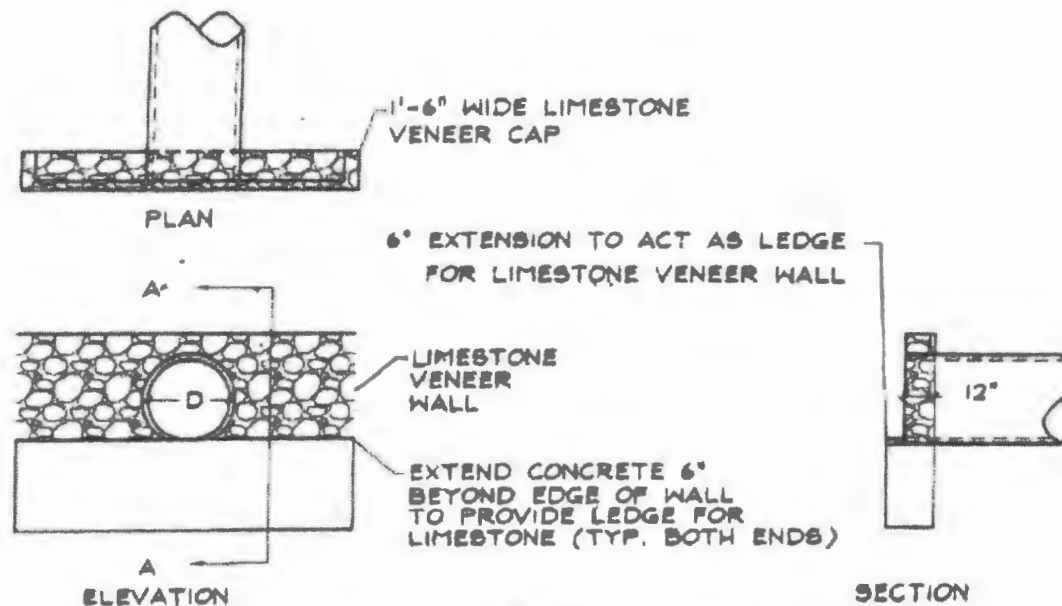
Date: May 2015

Job No

Scale: N.T.S.

NOTE:

- * STONE FACING SHALL BE ON ALL EXPOSED SURFACES OF THE OUTLET STRUCTURES.
- * STONE IS TO BE NORTH SHORE BLUFF LIMESTONE. ALTERNATE SELECTIONS MUST BE APPROVED BY THE CITY SERVICE DIRECTOR.
- * 1/2" MAX DRY LAID LOOK JOINTS HOLD MORTAR BACK 3 MIN.
- * VARY THICKNESS OF ADJACENT HORIZONTAL STONE COURSES. WHENEVER POSSIBLE LAY LARGE CHUNKS AND FILL IN AROUND WITH THINNER STONES.



**STONE FACING DETAIL
FOR HEADWALLS AND ENDWALLS**

FIGURE 6-4

Date: January 10, 2006

Job No

Scale: N.T.S.

7.0 DRAINAGE EASEMENTS

In order to provide access for City personnel for inspection and maintenance, the Owner or Developer is required to procure and convey to the City a minimum 20-foot easement and/or declaration of restrictions for any tile, pipe, detention basin, water quality BMP, drainage way, flood routing path, ditch, watercourse, natural stream, man-made stream, storm sewer, or other stormwater component that is to be maintained by the City or drains runoff from publicly owned land owned by the City.

The Owner and/or Developer shall comply with the procurement, execution, and maintenance of the Easement, and their responsibilities to the City and to adjacent and downstream property owners. The easement shall be of sufficient width, minimum of 20-foot, to allow cleaning, widening, deepening, replacing or other general maintenance of such drainage course or piped system. Such declaration of restrictions shall include the operation and maintenance requirements as specified in the City approved plans.

When it is necessary to convey stormwater outside the property lines of a proposed improved area in order to discharge into an adequate outlet, the Owner or Developer:

- a. Is required to obtain easements and/or maintenance agreements, in a form and substance satisfactory to the City, from abutting property owners; and
- b. Is responsible for maintenance agreements of such drainage course unless the easements and/or maintenance agreements require the abutting property owners to repair and maintain the drainage course satisfactorily.

Any required drainage easement, preservation areas, reserves and other similar areas shall be shown on the required plans and reflected on the final plat or a separate recorded document approved by the City.

8.0 STREAM CORRIDOR PROTECTION ZONE REQUIREMENTS

The Stream Corridor Protection Zone (SCPZ) is established through designation of a riparian setback that will be required on all jurisdictional streams. The Director of Public Service may request from a developer or owner confirmation from a regulatory authority that a particular drainage system is or is not a jurisdictional stream. The riparian setback shall be kept in a natural state to the maximum extent practical so that it can perform its inherent function of erosion protection, flood storage, and water quality protection. Encroachments into the SCPZ for the purposes of development can be permitted with mitigation as required per Sec. 8.6 of this Manual.

8.1 SCPZ Delineation

For all jurisdictional streams a riparian setback will be required and shown on all site improvement plans. The full setback width shall be centered on the stream or on the valley of the stream, per 8.1.1. For all jurisdictional streams except the Scioto River the full setback width is defined by Equation 1, which was developed by the Ohio Department of Natural Resources (ODNR) based on regional curve analysis. Exceptions to the full SCPZ are provided in 8.1.a. The Scioto River SCPZ shall be extended 50-feet from the FEMA Floodway limits or the 100-year floodplain limits, whichever is less.

(Equation 1)

$$\text{SCPZ} = 147 \times \text{DA}^{0.38}$$

SCPZ = Total riparian setback width measured in feet, centered on the watercourse

DA = Drainage area in square miles

a. Exceptions to Equation 1

1. The SCPZ shall be expanded to the FEMA floodway if the Equation 1 width is less
2. Any wetlands partially located within the SCPZ setback limits shall have the SCPZ expanded to include the entire wetland.
3. The SCPZ shall consist of a minimum width of 25 feet centered on the stream or valley
4. The SCPZ width may be reduced to 100-feet each side of the ordinary high water mark as long as the width is greater than the floodway or wetland.

8.1.1 Alternative SCPZ Delineation Method

Once the total SCPZ width has been determined, the following method can be used to determine a more accurate site-specific position of the riparian setback boundaries (either side of the SCPZ limits):

The delineation of the zone is based on centering the stream within the zone which creates an equal setback distance on either side of the stream. For streams with well-defined meander patterns this creates an unusual setback geometry often protecting areas of higher elevation outside the floodplain and not protecting areas within the floodplain or even floodway at

lower elevations on the other side. The SCPZ concept was meant to protect the valley of stream within its anticipated potential meander pattern.

To create a modification and thus, a more accurate SCPZ, the Ohio Department of Natural Resources (ODNR) provides guidance in the Rainwater and Land Development Manual, Chapter 2, page 21-26, on how to more accurately delineate the SCPZ boundary. The following steps summarize the technique:

Step 1: On a plot of the stream valley, draw cross-section lines at a width wider than the total SCPZ distance and at a desired spacing through the valley of the stream generally perpendicular to the centerline of the valley and to contours lines near the anticipated SCPZ boundary. The more cross-section lines that are drawn, the more accurate the delineation will be.

Step 2: Draw a circle with diameter equal to the total SCPZ width and place center of circle onto center of cross-section line. Move center of circle along cross-section line in either direction until the intersection point of the circle and cross section are at the same elevation on both sides of the stream valley. When equal elevations are obtained, this defines the SCPZ boundary at the cross section, place a mark at each intersection location. Repeat for each cross section.

Step 3: Connect the SCPZ marks on each cross section with straight lines along valleys that are generally straight which should keep the SCPZ line outside of any drawn circles. For curved stream valleys, the SCPZ should generally follow the curvature of the valley keeping the width equal to the calculated SCPZ width and most, if not all, of the lines outside of the drawn circles.

Delineation Exceptions:

- a. The SCPZ shall not be any closer to the edge of the stream channel (ordinary high water mark) than 10% of the total SCPZ width or 25 feet whichever is greater. When this occurs, the SCPZ shall be shifted away from the stream so that the side closest to the stream is no closer than 10% or 25 feet whichever is greater, from the ordinary high water mark. The total width of the SCPZ remains consistent with the calculated width.
- b. The SCPZ shall be extended to the top of slope if the SCPZ line intersects a slope of greater than 15%. In this case, the SCPZ width increases on the side with the 15% slope, the other side remains as calculated.
- c. The SCPZ shall be increased to include FEMA designated floodway limits.

8.2 Non-Conforming Structures or Uses

- a. Man-made roadside ditches specifically used for roadside drainage that are classified as jurisdictional by the Ohio EPA or United States Army Corps of Engineers are exempt from the provisions of this section.

- b. Non-conforming structures and uses within the SCPZ, existing at the time of passage of this Manual, that are not permitted under this Manual may be continued but shall not be expanded, changed or enlarged except as set forth in this title.
- c. Non-conforming structures may be repaired or restored if damaged, destroyed, terminated or abandoned within six months from the date of damage/destruction or the adoption of this Manual, whichever is later, at the property owner's own risk. The owner shall also comply with applicable requirements of Chapter 1329, the City of Grove City Code of Ordinances.
- d. Residential and associated accessory structures or use within the SCPZ existing at the time of passage of this Manual may be expanded subject to the following provisions:
 - 1. The expansion conforms to existing zoning regulations.
 - 2. The expansion shall not impact the stream channel or the floodway.
 - 3. The expansion shall not exceed an area of 15% of the footprint of the existing structure (or use) that lies within the SCPZ. Expansions exceeding 15% of the footprint within the SCPZ shall be obtained through the variance process as set forth in Chapter 1133, the City of Grove City Code of Ordinances.
- e. Non-residential structure (or use) expansions will be permitted only through the variance process as set forth in Chapter 1133, the City of Grove City Code of Ordinances.

8.3 Permitted Uses

- a. Passive Uses: Uses that are passive in character shall be permitted in the SCPZ, including, but not limited to, passive recreational uses such as hiking, fishing, and picnicking, as permitted by federal, state and local laws. Construction of paved trails to further such passive recreational uses is also permitted as well as associated structures including boardwalks, pathways constructed of pervious material, picnic tables, playground equipment, athletic fields, and wildlife viewing areas.
- b. Removal of Damaged or Diseased Trees: Damaged or diseased trees as determined by the City of Grove City Urban Forester may be removed by the property owner or easement holder from the SCPZ. To prevent felled logs and branches from damaging downstream properties and/or blocking watercourses or otherwise exacerbating flooding, logs and branches resulting from the removal of damaged or diseased trees greater than 6 inches in diameter at the cut end shall be cut into sections no longer than 6 feet, anchored to the shore in an acceptable manner or removed.
- c. Revegetation and/or Reforestation: Revegetation and/or reforestation of the SCPZ shall use species pursuant to Table 8-1 within the Stormwater Drainage Manual, which lists species of plants and shrubs recommended for stabilizing flood prone areas. Proper selection of species is dependent on soil conditions, available water and amount of sun exposure. Species selection should be coordinated with and approved by the City's Urban Forester.
- d. Public Utilities: Placement or crossing of the SCPZ with sanitary sewer, storm sewer, and/or water lines and public utility transmission lines may be located within the SCPZ and disturbances of the setback necessary to place and/or maintain such utilities are also authorized. The placement, construction and maintenance of such utilities shall minimize disturbance to riparian areas and shall mitigate any necessary disturbances. The developer and/or landowner shall secure the appropriate state and federal permits required for installations of this type.
- e. Public Roadways: Crossings of streams and SCPZs for roadways shall be minimized

and approved at the discretion of the City. The placement, construction and maintenance of the roadway shall minimize disturbance to riparian areas and shall mitigate any necessary disturbances. The developer and/or landowner shall secure the appropriate state and federal permits required for installations of this type. The addition of a designated bike path as part of the roadway crossing may be required by the City.

- f. Stream Restoration: Construction activities associated with properly permitted stream or wetland restoration projects shall be permitted within the SCPZ. Copies of the appropriate permits shall be made available to the City two weeks prior to the commencement of earth disturbing activities.
- g. Emergency Channel Maintenance Activity: Activity to restore or maintain the flood carrying capacity of the main channel area by the property owner or easement holder may be permitted, subject to authorization by the Director of Public Service and, if applicable, by appropriate state and/or federal agencies. Such activity may include, but not be limited to removal of offending trees or brush or the accumulation of sediment in the main channel that is necessary to restore flow carrying capacity of the main channel.
- h. Stormwater outfalls, including headwalls, endwalls, and associated outlet open ditches.

8.4 Prohibited Uses

Any use not permitted under Section 8.3 shall be prohibited in the Stream Corridor Protection Zone unless otherwise approved by the City and mitigated through the requirements of Section 8.7. The following is a list containing some of the uses that are specifically prohibited:

- a. Structures of any kind including buildings, swimming pools, signs, billboards, electric lines, telecommunication lines (with the exception of transmission lines), cable TV lines, and other improvements deemed unacceptable by the Director of Public Service.
- b. Dredging or filling: There shall be no drilling, filling, dredging, diking, ditching, grading, or dumping of soils, spoils, liquid, or solid materials. No floodplain fill will be grated for areas within the Stream Corridor Protection Zone except those that are required for permitted uses.
- c. Parking lots, roads, driveways, or other human- made impervious cover
- d. Parallel utility lines, above or below grade.
- e. Stormwater detention and/or water quality BMPs.
- f. Motorized vehicles, except as needed for permitted uses.
- g. Herbicides and pesticides, except as approved by the Director of Public Service.
- h. Removal of topsoil, sand, gravel, rock, native ground cover/vegetation, oil or gas, with the exception of permitted uses or as approved by the Director of Public Service.
- i. Disturbance of natural vegetation except for the following:
 - 1. Maintenance of lawns, landscaping, shrubbery, or trees existing at the time of passage of this ordinance.
 - 2. Cultivation of lawns, landscaping, shrubbery, or trees in accordance with an approved landscaping plan submitted in conformance with this Manual.
 - 3. Conservation measures designed to remove damaged or diseased trees or to

control noxious weeds or invasive species.

- j. Any subsurface or surface sewage disposal or treatment area except for:
 - 1. Undeveloped parcels that have received site evaluation approval and/or permit approval prior to the enactment of this ordinance.
 - 2. Dwellings served by disposal/treatment systems existing at the time of passage of this Manual when such systems are properly sited (approved site evaluation) and permitted or in accordance with the Franklin County Public Health Department and/or the Ohio Environmental Protection Agency. Existing failing systems which are located within the SCPZ can be upgraded with approval of the Franklin County Public Health Department and/or the Ohio Environmental Protection Agency.

8.5 Construction Requirements

The following conditions shall apply to all Stream Corridor Protection Zones:

- a. Except as otherwise provided in this Manual, the Stream Corridor Protection Zone shall be preserved in its natural state.
- b. Prior to any soil disturbing activity, the Stream Corridor Protection Zone shall be clearly delineated by the applicant or their designated representative on the site. Such delineation shall also be identified on the Erosion and Sediment Control Plan and this delineation shall be maintained throughout soil disturbing activities.
- c. No later than the conclusion of construction, the applicant shall permanently delineate the Stream Corridor Protection Zone in an aesthetically harmonious manner, approved by the City, such that the location of the riparian setback boundary defining the Stream Corridor Protection Zone is apparent to the casual observer and permits access to the zone.
- d. Language preventing property owners from constructing facilities and performing activities that are prohibited within the Stream Corridor Protection Zone shall be shown on the plat or separate instrument and reflected on all deeds.
- e. Land within the SCPZ may be deeded fee simple to the City, pending City approval.
- f. The applicant shall obtain all necessary permits from the Army Corps of Engineers, Ohio EPA, and other regulatory agencies. The applicant is responsible for all permitting fees.

8.6 Mitigation of SCPZ Disturbances

For proposed non-compliant uses within the SCPZ not permitted under this section, mitigation shall be provided for proposed impervious area or managed open space encroachments as follows.

- a. Proposed Impervious Area. Proposed impervious areas within the SCPZ not permitted under this section shall be mitigated one of the following ways upon approval by the Director of Public Service:
 - 1. Mitigation by reducing the impervious area within an existing offsite or onsite SCPZ by two times the proposed impervious area encroachment, re-vegetating

according to specifications in this Manual, and placing the area into a conservation easement.

2. Mitigation by reducing the managed open space or agricultural area within an existing offsite or onsite SCPZ by four times the proposed impervious area encroachment, re-vegetating according to specifications in this Manual, and placing the area into a conservation easement.
 3. Install an intensive or extensive Green Roof equal in surface area to managed open space within the SCPZ or two times the proposed area of impervious surface within the SCPZ.
- b. Proposed Managed Open Space. Proposed managed open space area within the SCPZ not permitted under this section shall be mitigated as described below upon approval by the Director of Public Service:
1. Mitigation by reducing the managed open space or agricultural area within an existing offsite or onsite SCPZ by two times the proposed managed open space area encroachment, re-vegetating according to specifications in the Stormwater Design Manual, and placing the area into a conservation easement.

All areas that are designated to be used for SCPZ mitigation shall be permanently restricted by a recorded conservation easement held by the City. The easement shall be required to be recorded prior to the completion of proposed site improvement construction activities. The conservation easement is only required for SCPZ mitigated areas.

- a. It is the responsibility of the property owner to properly maintain the SCPZ. The conservation easement shall include the right of the City or its authorized agents, upon reasonable notice to the property owner, to enter upon the property for the purposes of accessing the Stream Corridor to inspect and monitor compliance with the terms of the conservation easement and this article. The conservation easement shall be perpetual, shall be in the form approved by the City, and shall run with the land and be binding upon the property owner and the successors in interest in the property or in any part thereof. Conservation easements shall be established by deed if no subdivision map is being filed, or by plat filed with the Franklin County Recorder's Office. The recorded conservation easement shall, at a minimum, also include:
1. Date of issuance, a written narrative of authorized regulated activities permitted in this section of this Ordinance, all of the prohibitions set forth, and in the case of permitted disturbances, a description of the disturbance(s) to be implemented;
 2. Survey plans for the property as a whole and, where applicable, for any additional properties subject to the conservation easements. Such survey plans shall be submitted on the surveyor's letterhead, signed and sealed by the surveyor, and shall include metes and bounds descriptions of the property, the site, and the areas subject to the conservation easement in Ohio State Plane Coordinates, North American Datum 1983, and shall depict the boundaries of the site and all areas subject to the conservation easement as marked with flags, signs or stakes on site. All such survey plans shall be submitted on paper and in digital CAD or GIS file on a media and format defined by the City. The flags, signs or stakes shall be numbered and identified on the survey plan; and
 3. A copy or copies of deeds for the property as a whole that indicate the deed book and pages where it has been recorded with Franklin County.

- b. The easement shall require the landowner to establish and maintain visible monuments at prominent locations along the boundary of the area subject to the easement.
- c. The conservation easement may include language reserving the right to make minor changes to accommodate necessary regulatory approvals upon the written consent of the City, provided such changes are otherwise consistent with this Manual. Any subsequent requests for minor changes to a conservation easement not associated with another land use application shall be subject to approval by the City. Such requests shall be in writing and shall be accompanied by all necessary supporting documentation. Upon the complete submittal of the written request and supporting documentation, the City shall have 90 days to decide whether to grant the request, pending an extension upon mutual agreement of all parties involved.

8.7 Exceptions

SCPZ requirement exceptions may be granted by the Director of Public Service, however, this shall not absolve the developer or property owner from complying with all applicable state and federal regulations.

8.8 Flood Prone Area and SCPZ Stabilization

Proper selection of species for stabilization of flood prone and SCPZ areas is dependent on several factors, including soil conditions, available water and amount of sun exposure. Proper species selection and installation shall account for these factors.

Table 8-1: Species of Plants and Shrubs Recommended for Stabilizing Flood Prone Areas

Riparian Corridor—Trees

Botanical Name	Common Name
<i>Acer spp.</i>	Maple(s)
<i>Betula nigra</i>	River Birch
<i>Carya spp.</i>	Hickory(s)
<i>Celtis occidentalis</i>	Common Hackberry
<i>Cercis Canadensis</i>	Eastern Redbud
<i>Crataegus phaenopyrum</i>	Washington Hawthorne
<i>Crataegus crusgalli</i>	Cockspur Hawthorne
<i>Fagus grandiflora</i>	Beech
<i>Fraxinus Americana</i>	White Ash
<i>Gleditsia triacanthos</i>	Honeylocust
<i>Hamamelis virginiana</i>	Common Witchhazel
<i>Liriodendron tulipifera</i>	Tulip Poplar
<i>Liquidambar styraciflua</i>	Sweetgum
<i>Platanus occidentalis</i>	Sycamore
<i>Populus deltoids</i>	Eastern Cottonwood
<i>Prunus serotina</i>	Black Cherry
<i>Quercus alba</i>	White Oak
<i>Quercus palustris</i>	Pin Oak
<i>Quercus rubra</i>	Red Oak
<i>Ulmus rubra</i>	Slippery Elm

Riparian Corridor--Shrubs

Botanical Name	Common Name
<i>Aronia melanocarpa</i>	Black Chokeberry
<i>Cornus racemosa</i>	Gray Dogwood
<i>Cornus stolonifera</i> *	Red-osier Dogwood
<i>Lindera benzoin</i>	Spicebush
<i>Salix spp.*</i>	Willow(s)
<i>Sambucus canadensis</i>	Elderberry
<i>Viburnum dentatum</i>	Southern Arrowwood
<i>Viburnum prunifolium</i>	Blackhaw Viburnum
<i>Viburnum lentago</i>	Nannyberry Viburnum
<i>Viburnum trilobum</i>	American Cranberrybush

*In stream plantings for rapid shade cover and bank stabilization

9.0 OPERATION AND MAINTENANCE PLANS

The owner/developer of a site that includes the implementation of structural and nonstructural BMPs to manage stormwater from the site and provide qualitative treatment shall prepare an Operation and Maintenance (O&M) Plan. The O&M plan shall be submitted to the City for review and shall be approved prior to the commencement of construction activities. The O&M Plan shall meet the minimum requirements of the latest version of the Ohio EPA General Construction Permit and include an O&M Agreement signed by the owner/developer and a requirement for annual inspection reports filed on forms provided by the City and conducted by a licensed Ohio Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), or Certified Professional in Storm Water Quality (CPSWQ).

The O&M plan shall be a stand-alone document which contains the following minimum requirements:

- a. A designated entity for stormwater inspection and maintenance responsibilities.
- b. The routine and non-routine maintenance tasks to be undertaken.
- c. A schedule for inspection and maintenance tasks.
- d. Any necessary legally binding maintenance easements and agreements.
- e. A map showing the location of the BMPs and access and maintenance easements.
- f. BMP details.
- g. Procedures for properly disposing of collected pollutants within the BMPs in accordance with local, state, and federal regulations.

10.0 EROSION AND SEDIMENT CONTROL

The developer shall prepare a Stormwater Pollution Protection Plan (SWP3) in accordance with the general and specific requirements outlined in the OEPA's permit for stormwater discharges associated with construction activity or its subsequent OEPA-issued revision. The SWP3 shall include erosion and sediment structural and non-structural BMPs to address the management of construction site stormwater runoff throughout land disturbing activities. The SWP3 shall be submitted to the City for review and shall be approved prior to the commencement of land disturbing activities. A copy of the OEPA Notice of Intent (NOI) submission shall be made available to the City.

A copy of the approved SWP3 shall be maintained onsite in a location easily accessible by the City at all times during construction activities. The owner/developer is required to modify the SWP3 as necessary during construction activities to appropriately manage the construction site stormwater runoff during the various phases of construction. The SWP3 required to be kept on-site shall be modified and revised to reflect the installed BMPs at all times.

It shall be the responsibility of the owner/developer to provide notification to the City 48 hours prior to commencement of initial site earth disturbance. No construction activity such as grading, cutting, or filling shall be commenced until erosion and sedimentation control devices have been installed to the satisfaction of the City.

No person shall cause or allow earth disturbing activities on a development area except in compliance with the standards set out in this manual and the applicable items below:

- a. An SWP3 shall be approved prior to any earth disturbing activities on development areas, including those development areas being a part of a larger common plan of development or sale. The person proposing such earth disturbing activities shall develop and submit for approval a plan, as part of the final site improvement plans, containing erosion and sediment pollution control practices so that compliance with other provisions of this manual shall be achieved during and after development. Such a plan shall address specific requirements contained within this Manual.
- b. The SWP3 shall contain a description of the controls appropriate for each construction operation covered by this Manual and the operator(s) shall implement such controls. The terms shall clearly describe for each major construction activity appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented; and which contractor is responsible for implementation (e.g., contractor A will clear land and install perimeter controls and contractor B will maintain perimeter controls until final stabilization). The erosion and sediment control practices used to satisfy the conditions of this Manual shall meet the standards and specifications in the current edition of Ohio's Rainwater and Land Development manual or other standards acceptable to the City.

11.0 GLOSSARY

The following definitions shall apply to this Manual:

100-year flood: A flood which has the probability of occurring once every one-hundred (100) years or having a one (1) percent chance of occurring each year, otherwise known as the base flood.

Attenuation: Is the gradual loss of intensity of flow.

Best Management Practice(s) (BMP): Measures including structural and non-structural BMPs that are determined to be the most effective, practical means of preventing or reducing point source or non-point source pollution inputs to stormwater runoff and water bodies and reduction in peak flow rates.

Contamination: The presence of or entry into a public water supply system, the MS4, Waters of the State, or Waters of the United States of any substance which may be deleterious to the public health and/or the quality of water.

Conveyance: Any pipe, channel, inlet, drain, or other structure that facilitates the movement or removal of water.

Dam: An artificial barrier usually constructed across a stream channel to impound water. Dams shall have spillway systems to safely convey normal stream and flood flows over, around, or through the dam. Spillways are commonly constructed of non-erosive materials such as concrete. Dams should also have a drain or other water withdrawal facility to control the pool or lake level and to lower or drain the lake for normal maintenance and emergency purposes. A permit from ODNR is not required for impoundments with a total storage volume of less than 15 ac-ft, or less than 50 ac-ft for impoundments with a height of less than 10 feet, or unlimited storage for heights of less than 6 feet.

Detention Basin: A facility designed for the temporary storage of stormwater runoff for the purpose of delaying and attenuating flow to the downstream receiving system. For the purpose of this design manual, this definition excludes storage in areas of parking lots, rooftops, underground tanks and other water quality based applications, such as bio-retention basins.

Design Storm: A rainfall event of specified size and return frequency which is used to calculate the runoff volume and peak flow rate.

Development: Any action in preparation for construction activity which results in an alteration of either land or vegetation, including but not limited to clearing, grubbing, grading, filling, excavation or any other development operations and the construction of new facilities, buildings, parking areas, recreational areas, etc.

Dike: An artificial barrier used to divert or restrain flood waters from tidal bodies of water.

Discharge: Any substance introduced to the Waters of the State or to surface runoff which is collected or channeled by the MS4 which does not lead to treatment works and/or the addition of any pollutant to the Waters of the State from a point source.

Disturbance: Earth surface subject to erosion due to the removal of vegetative cover and/or earthmoving activities.

Ditch: An open channel constructed for the purpose of drainage or irrigation with intermittent flow.

Drainage: A general term applied to the removal of surface or subsurface water from a given area, either by gravity or by pumping, commonly applied herein to surface water.

Drainage System: The surface and subsurface system for the removal of water from the land, including both the natural elements of streams, marshes, swales and wet basins, whether of an intermittent or continuous nature, and man-made elements which include culverts, ditches, channels, storage facilities and the storm sewer system.

Easement: Property titled to the City for the operation and maintenance of stormwater drainage and management systems.

Engineer: A Professional Engineer registered in the State of Ohio as required by Chapter 4733 of the Ohio Revised Code.

Environmental Protection Agency (EPA): The Ohio and/or U.S. Environmental Protection Agency.

Erosion: The general process whereby soil or surface material is moved by flowing surface or subsurface water or is worn away by the action of wind, water, ice or gravity.

Erosion control: Measures that reduce or prevent erosion.

Extended Detention: A stormwater design feature that provides for the gradual release of a volume of stormwater (0.75 inch per impervious acre) over a 24 to 48-hour interval to increase settling of urban pollutants and protect channels from degradation.

Facility: Any operation, including construction sites, required by the Federal Clean Water Act to have a permit to discharge stormwater associated with activities subject to NPDES Permits as defined in 40 Code of Federal Regulations (CFR), Part 122.

Flood: A temporary rise in the level of rivers, streams, watercourses and lakes which results in inundation of areas not ordinarily covered by water.

Flood Plain: The relatively level land to either side of a channel, which is inundated during high flows. It is often used to reference the 100-year flood plain.

Geotextile: A woven or nonwoven, water-permeable fabric generally made of synthetics such as polypropylene. It's used to slowly pass runoff or as bedding for rock to keep the rock separate from adjacent soil.

Grading: Changing the ground surface condition, elevation, and/or slope through excavation or fill of material.

Green Roof: A roof of a building that is partially or completely covered with vegetation and a growing medium, planted over a waterproofing membrane. It may also include additional layers such as a root barrier and drainage and irrigation systems.

Hydrologic Soil Group: One of four classifications of soil based on the minimum infiltration characteristics for bare soil after prolonged wetting as used by the United States Department of Agriculture Natural Resources Conservation Service *Technical Release No. 55, Urban Hydrology for Small Watersheds*. The Franklin County Soil Survey should be used as the reference source for soil types and hydrologic soil groups within the City of Grove City.

Impervious Surface: Any constructed surface; including but not limited to, rooftops, sidewalks, roads, and parking lots; covered by impenetrable materials such as asphalt, concrete, brick, and stone. These materials seal surfaces, repel water and prevent precipitation and runoff from infiltrating soils.

Infiltration: The gradual downward flow of water from the surface through soil to groundwater.

Jurisdictional Stream: Any watercourse that is deemed to be classified as Waters of the United States by a regulatory governmental agency such as the Ohio EPA or United States Army Corps of Engineers. Classifications include ephemeral, intermittent, and perennial.

Landscape: To mow, seed, sod, plant, and to do other activities which are not earth changes.

Larger Common Plan of Development of Sale: A contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan. A common plan is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor, markings, etc.) indicating that construction activities may occur. A larger common plan or sale needs to also consider spoil areas, staging areas and borrow sites. A public body need not consider all their construction projects within their entire jurisdiction to be part of an overall common plan. Discrete construction projects within a larger common plan or development or sale are located at least 1/4 mile apart and the area between the two projects is not being disturbed, each individual project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline, or utility project that is part of the same "common plan" is not concurrently being disturbed.

Low Impact Development or "LID": A term used to describe a land planning and engineering design approach to manage stormwater runoff. One of the primary goals of LID is to reduce the volume of runoff

by infiltrating runoff, evaporation of rainwater back into the atmosphere, and finding other beneficial uses for excess runoff rather than exporting it as a waste product to downstream storm sewers.

Levee: An artificial barrier that diverts or restrains flood waters from streams and lakes. Per the Ohio Department of Natural Resources, sufficient freeboard shall be provided to prevent overtopping of the levee due to passage of the design flood or due to severe frost damage, ice damage, stream obstruction or wave action. The design freeboard shall not be reduced without the approval of the ODNR Chief.

- For levees in Class I, the minimum elevations of the top of the levee shall be three feet higher than the maximum adjacent water surface elevation during passage of the design flood.
- For levees in Class II and Class III, the minimum elevations of the top of the levee shall be two feet higher than the maximum adjacent water surface elevations during passage of the design flood.
- Where special condition of severe frost damage, ice damage, stream obstruction, wave action, or impact of other structures may occur, the ODNR Chief may require elevations higher than required item 1 above.

Managed Open Space: Land that is regularly maintained via mowing, fertilizing, landscaping, and other actions that prevent the land from being in a natural state such as single-family residential lawns, golf courses, cemeteries, and other similar types of development.

Material: Soil, sand, gravel, clay, or any other organic or inorganic material.

Municipal Separate Storm Sewer System (MS4): As defined at 40 CFR 122.26(b)(8), "means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law)...including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity.
- Designed or used for collecting or conveying stormwater;
- Which is not a combined sewer; and
- Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2."

National Pollutant Discharge Elimination System (NPDES): A national program under Section 402 of the Clean Water Act for regulation of discharges of pollutants from point sources to Waters of the United States. Discharges are illegal unless authorized by an NPDES permit.

NPDES Permit: A permit issued by the EPA (or by a state under authority delegated pursuant to 33 USC § 1342(b)) that authorizes the discharge of pollutants to Waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

OAC: Ohio Administrative Code.

Operate: To drive, conduct, work, run, manage, or control a tool, piece of equipment, vehicle, or facility.

Ordinary High Water Mark (OHWM): A line on the shore established by the fluctuations of water and indicated by physical characteristics, or by other appropriate means that consider the characteristics of the surrounding areas.

Owner: Any person with a legal or equitable interest in a piece of land or parcel.

Permeability: The capacity for transmitting runoff through a material or into soil. The relevant soil property is the saturated hydraulic conductivity, which is the amount of water that would move vertically through a unit of saturated soil per unit time under hydraulic gradient.

Person: Any individual, owner, operator, association, organization, partnership, firm, corporation, municipal corporation, joint venture, agency, County or State agency, unincorporated associate, party, the federal government, any combination thereof or other entity recognized by law.

Pollutant: Anything which causes or contributes to pollution.

Pollution: The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any Water of the State or Water of the United States, that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to the public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.

Practices: Schedules of activities, prohibitions of practices, maintenance procedures and other management practices and techniques (both structural and non-structural) used to lessen the environmental impacts of land use and to prevent or reduce the pollution of Waters of the State. BMPs also include treatment requirements, operating procedures and practices to control facility and/or construction site runoff, spillage or leaks, sludge or waste disposal or drainage from raw material storage. Techniques may involve basins, vegetation, altering construction operations, open space development, riparian buffers or other means of limiting environmental impacts.

Rainwater and Land Development Manual: A manual describing construction and post-construction BMPs and associated specifications prepared by the Ohio Department of Natural Resources Division of Soil and Water Conservation. The compilation of technical standards and design specifications are methods of controlling construction related surface runoff, erosion and sedimentation. A copy of the manual may be obtained by contacting the Director of Public Service or the Ohio Department of Natural Resources, Division of Soil & Water Conservation.

Riparian Setback: An area of trees, shrubs, and surrounding vegetation located adjacent to streams, rivers, lakes, ponds, and wetlands which serve to stabilize erodible soil, improve both surface and ground water quality, increase stream shading and enhance wildlife habitat.

Riprap: Rock or stone placed over a bedding of geotextile, sand or gravel used to armor slopes against flowing water or wave action.

Runoff: The portion of rainfall, precipitation, melted snow or irrigation water that flows across the ground surface and is eventually returned to streams.

Runoff coefficient: The fraction of total rainfall that will appear as runoff.

Sediment: Soils or other surface materials (including, but not limited to rock, sand, gravel and organic material or residue associated with or attached to the solid) that can be transported or deposited by the action of wind, water, ice or gravity as a product of erosion or sedimentation.

Sediment pollution: Degradation of Waters of the State by sediment as a result of failure to apply management or conservation practices to abate wind or water soil erosion, specifically in conjunction with earth disturbing activities on land used or being developed for commercial, industrial, residential or other non-farm purposes.

Sediment basin: A sediment trap, sediment basin or permanent basin that has been temporarily modified for sediment control, as described in the latest edition of the Rainwater and Land Development Manual.

Sedimentation: The processes that operate at or near the surface of the ground to deposit soils, debris and other materials either on the ground surfaces or in water channels or the action of deposition of sediment that is determined to have been caused by erosion.

Sheet Flow: Diffuse runoff flowing overland in a thin layer not concentrated and not in a defined channel.

Site: The entire area of land surrounding the discharge activity.

Soil Erosion: The movement of soils that occurs as a result of wind, rain, precipitation, or flowing water.

Stabilization: Vegetative or structural soil-cover controlling erosion (including but not limited to permanent and temporary seed, mulch, sod, pavement, etc.) or the use of vegetative and/or structural practices that prevent exposed soil from eroding.

Stormwater: Water runoff resulting from precipitation, snow melt, or irrigation runoff as defined in 40 Code of Federal Regulation 122.26(b)(13).

Stormwater Master Plan: A study prepared by a Professional Engineer to determine specific allowable discharge rates for a larger common development or watershed area. These types of studies are typically initiated due to downstream restrictions or other special circumstances that require a higher level of stormwater control within the study area.

Stormwater Pollution Prevention Plan (SWP3): A set of plans and specifications, prepared and approved in accordance with the specific requirements of the City Engineer and the Ohio EPA, NPDES Permit #OHC000004. The SWP3 shall be certified by an Engineer, and shall indicate the stormwater management strategy, including the specific measures and sequencing to be used to manage stormwater

on a development site before, during and after construction and shows the details of any earth-disturbing activity on the site.

Stormwater runoff: Surface water runoff which converges and flows primarily through water conveyance features such as swales, gullies, waterways, channels or storm sewers.

Stormwater Treatment: The removal of pollutants from urban runoff and improvement of water quality, accomplished largely by deposition and utilizing the benefits of natural processes.

Stream: A system including permanent or seasonally flowing water, often with a defined channel (bed and bank), flood plain, and riparian ecosystem. To be classified as a stream, the waterway shall meet certain requirements as defined by the Ohio EPA and/or US Army Corps of Engineers and may then be classified as either an ephemeral, intermittent, or perennial stream.

Stream Corridor Protection Zone" or "SCPZ": A transitional area between terrestrial and aquatic ecosystems, and adjacent to perennial, intermittent, and ephemeral streams, lakes, and estuarine-marine shorelines, that is distinguished by gradients in biophysical conditions, ecological processes, and biota, through which surface and subsurface hydrology connect water bodies with their adjacent uplands. The riparian zone includes those portions of terrestrial ecosystems that significantly influence exchanges of energy and matter with aquatic ecosystems (i.e., a zone of influence).

Structural BMP: A constructed facility or measure to help protect receiving water quality and control stormwater quantity.

Structure: Anything manufactured, constructed or erected which is normally attached to or positioned on land, including, but not limited to buildings, portable structures, earthen structures, roads, parking lots, and paved storage areas.

Water Quality Volume: A volume captured for the purposes of treating pollutants and protecting stream stability. This volume is prescribed by the Ohio EPA Construction General Permit and is equivalent to the volume generated by a 0.75 inch rainfall.

Watershed: A region draining to a specific river.

Wetland: An area that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated or hydric soil conditions as defined by the Ohio EPA and/or US Army Corps of Engineers.

Date: 07/15/15
Introduced By: Ms. K-McGraw
Committee: Lands
Originated By: Plan. Comm.
Approved:
Emergency: 30 Days: X
Current Expense:

No.: C-47-15
1st Reading: 07/20/15
Public Notice: 07/23/15
2nd Reading: 09/08/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-47-15

AN ORDINANCE APPROVE A PUD-R ZONING CLASSIFICATION FOR 16+ ACRE PARCEL LOCATED AT THE SOUTHWEST CORNER OF ORDERS AND HAUGHN ROADS UPON ITS ANNEXATION TO THE CITY OF GROVE CITY

WHEREAS, a petition was filed with the Planning Commission of the City of Grove City praying for the recommendation of said Commission in regard to the zoning classification of certain premises, upon its annexation to the City, hereinafter described; and

WHEREAS, the Planning Commission approved the PUD-R Zoning Classification request on July 07, 2015, with the following stipulations: 1. Section VII(4) of Zoning Text shall be amended to eliminate the specific Total Building square footage, 2. Section VII(9) shall be amended to state "There will be a minimum of 178 parking spaces provided for staff, visitors, and tenants"; and

WHEREAS, a copy of the annexation, together with a map and zoning classification request and the recommendation of the Planning Commission has been on file in the Clerk's office for thirty days for public inspection.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT

SECTION 1. The following described premises shall be given a zoning classification of PUD-R - Planned Unit Development-Residential, with an amended Zoning Text as stipulated by Planning Commission, upon its annexation to the City of Grove City, Ohio:

Situated in the State of Ohio, County of Franklin, City of Grove City and lying in Virginia Military Survey #1434, and being more fully described in Exhibit "A" attached hereto and made a part hereof.

SECTION 2. The comprehensive zoning map is hereby amended to conform to the provisions of this ordinance.

SECTION 3. This Ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:
Effective:

Richard L. Stage, Mayor

Attest:

Tami K. Kelly, MMC, Clerk of Council

I Certify that this ordinance

C-47-15
Exhibit A
LEGAL DESCRIPTION
15.974 ACRES

Situated in the State of Ohio, County of Franklin, Township of Jackson, lying in Survey Number 1434 of the Virginia Military District, being a part of the 86.388 acre tract conveyed to Joseph D. Brown and Marcia L. Brown by of record in Instrument Number 200001120008580 and in Instrument Number 201209140136739 (all references are to the records of the Recorder's Office, Franklin County, Ohio) and being described as follows:

COMMENCING, FOR REFERENCE, at Franklin County Geodetic Survey monument number 2018 found at the intersection of the centerline of Orders Road (right of way width varies) and the centerline of Haughn Road (right of way width varies) being also the northeasterly corner of the 0.896 acre tract conveyed to the Franklin County Commissioners by deed of record in Instrument Number 200408170192072 and the northwesterly corner of the 0.727 acre tract conveyed to Dorothy A. Miller by deed of record in Instrument Number 201303220048045;

thence, South 02° 36' 56" West, 750.00 feet, along the centerline of Haughn Road, the easterly line of the 0.896 acre tract, the westerly line of the 0.727 acre tract, the westerly line of the 0.460 acre tract conveyed to Betty D. Gardner by deed of record in Official Record 5102 E09 and the westerly line of the 4.422 acre tract conveyed to Rebecca L. Absten and Michael J. Absten by deed of record in Instrument Number 200406090133243, to a Mag Nail set in the southeasterly corner of the 0.896 acre tract and being the **PRINCIPAL PLACE OF BEGINNING**;

thence, continuing South 02° 36' 56" West, 254.58 feet, along the centerline of Haughn Road, to a Mag Nail set;

thence, North 82° 23' 04" West, 810.50 feet, to an iron pin set, passing for reference an iron pin set at 20.08 feet in the westerly right of way line of Haughn Road;

thence, North 02° 36' 56" East, 889.58 feet, to an iron pin set in the southerly line of the 2.250 acre tract conveyed to the City of Grove City, Ohio by deed of record in Instrument 201410310144844;

thence, South 86° 59' 05" East, 651.50 feet, along the southerly line of the 2.250 acre tract and the northerly line of the Brown tract, to an iron pin found (13/16" ID. iron pipe with "EMHT" plug per survey by Joshua M. Meyer);

thence, South 26° 06' 28" East, 114.30 feet, along a southwesterly line of the 2.250 acre tract and a northeasterly line of the Brown tract, to an iron pin found (13/16" ID. iron pipe with "EMHT" plug per survey by Joshua M. Meyer);

thence, South 09° 55' 41" East, 234.82 feet, along a southwesterly line of the 2.250 acre tract and a northeasterly line of the Brown tract, to an iron pin found (13/16" ID. iron pipe with

"EMHT" plug per survey by Joshua M. Meyer) in the westerly line of the Franklin County Commissioners 0.896 acre tract;

thence, South 02° 36' 56" West, 371.64 feet, along the westerly line of the 0.896 acre tract and an easterly line of the Brown tract, to an iron pin set in the southwesterly corner of the 0.896 acre tract;

thence, South 87° 23' 04" East, 50.00 feet, along the southerly line of the 0.896 acre tract and a northerly line of the Brown tract, to the Principal Place of Beginning, passing for reference an iron pin set at 30.00 feet.

Containing 15.974 acres more or less of which 0.116 acres is within the present right of way occupied by Haughn Road. Subject, however, to all legal rights of way and/or easements, if any, of previous record.

Iron pins set, where indicated, are 5/8 inch diameter by 30 inches in length solid re-bars with yellow plastic caps bearing the inscription of Choice One Engineering and SEB LS-7059.

The bearings shown on this survey are based on NAD 83, GEOID 2003, Ohio South Zone, ODOT VRS CORS Network and verified by field traverse utilizing and referencing the Franklin County Engineering Department monuments FCGS 5623, FCGS 2018, FCGS 2017 and L21. The bearing of South 02° 36' 56" East between monuments FCGS 2018 and FCGS 2017 was utilized as the "basis of bearings" for this survey.

This survey was prepared using documents of record, prior plats of survey and observed evidence located by an actual field survey during the month of February 2015 performed under the direct supervision of Steven E. Bowersox, Ohio Professional Surveyor number 7059.



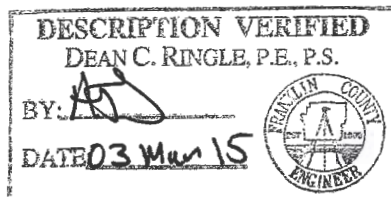
CHOICE ONE ENGINEERING

Stu E Bowersox 3/2/2015
Steven E. Bowersox Date
Professional Surveyor No. 7059

0-33-2
Split
15.974 acre
0-506
(160)
184

APPROVED BY FRANKLIN COUNTY
ECONOMIC DEVELOPMENT &
PLANNING DEPARTMENT
NO PLAT REQUIRED

[Signature] 4/3/15
Authorized By *9777-15-LS* Date



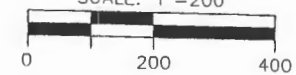
BROWN PLAT OF SURVEY

BEING SITJATE IN VIRGINIA MILITARY SURVEY 1434,
TOWNSHIP OF JACKSON, COUNTY OF FRANKLIN,
STATE OF OHIO



The bearings shown on this survey are based on NAD 83, GEOID 2003, Ohio South Zone, ODOT VRS CORS Network and verified by field traverse utilizing and referencing the Franklin County Engineering Department monuments FCGS 5623, FCGS 2018, FCGS 2017 and L21. The bearing of South 02° 36' 56" East between monuments FCGS 2018 and FCGS 2017 was utilized as the "basis of bearings" for this survey

SCALE: 1"=200'

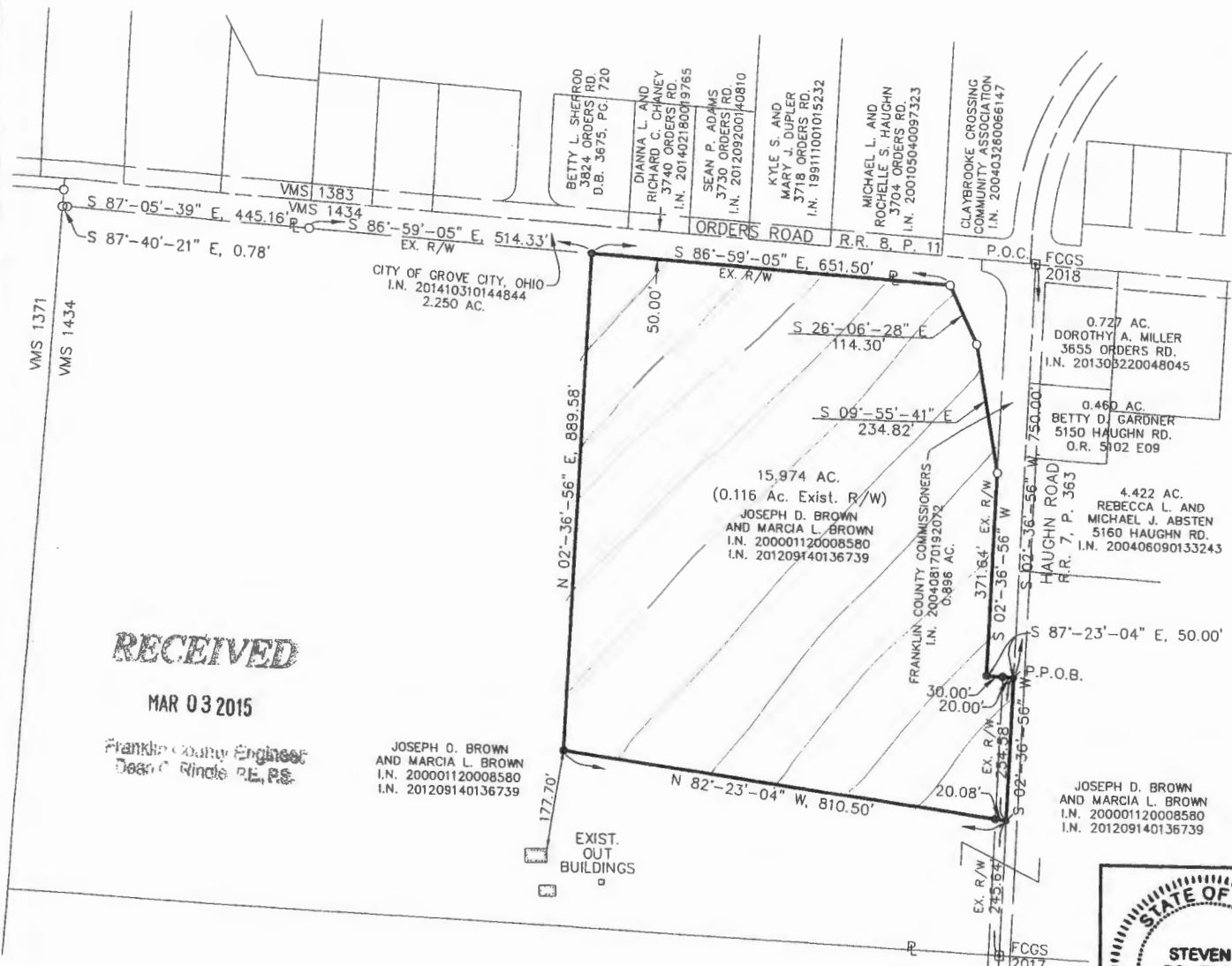


LEGEND

- 5/8" X 30" REBAR W/CAP SET
- IRON PIN FOUND, 1 3/8" ID IRON PIPE WITH "EMHT" PLUG PER SURVEY BY JOSHUA M. MEYER
- ✱ MAG NAIL SET
- ✱ MAG NAIL FOUND
- ⊠ FCGS MONUMENT FOUND
- P.O.C. POINT OF COMMENCEMENT
- P.P.O.B. PRINCIPAL PLACE OF BEGINNING

NOTE:

1.) The subject 15,974 acre tract contains no buildings or improvements.



RECEIVED

MAR 03 2015

Franklin County Engineer
Dean C. Rinde, P.E., P.S.

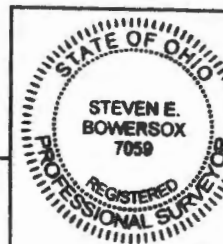
JOSEPH D. BROWN
AND MARCIA L. BROWN
I.N. 200001120008580
I.N. 201209140136739

EXIST.
OUT
BUILDINGS

JOSEPH D. BROWN
AND MARCIA L. BROWN
I.N. 200001120008580
I.N. 201209140136739

Steven E. Bowersox
STEVEN E. BOWERSOX, P.S. #7059

3/2/2015
DATE



CHOICE ONE ENGINEERING	DATE:
	03-02-2015
	DRAWN BY:
	seb
440 E. HOEWISHER ROAD SIDNEY, OHIO 45365 (937) 497-0200 www.choiceoneengineering.com	JOB NUMBER:
	FRA-GCI-1403
203 W. LOVELAND AVENUE LOVELAND, OHIO 45140 (513) 239-8554	SHEET NUMBER
	1 OF 1

**STORY POINT SENIOR LIVING FACILITY
PLANNED UNIT DEVELOPMENT-RESIDENTIAL (PUD-R)
ZONING TEXT**

- I. INTRODUCTION. This Zoning Text (the "Text") establishes the permitted land use, residential density, and other development standards for the development comprising the 15.97± acres of land generally located south of Orders Road, and west of Haughn Road, as more accurately depicted on the Preliminary Development Plan dated April 15, 2015 and described in the legal description submitted with the zoning application (the "Property"). The Property or, as sometimes referred to herein, Story Point, is a senior living facility. The general design of the Property is to reflect and continue the characteristics and continuity of the adjacent community.
- II. SEVERABILITY. All provisions of this Text are severable. If a court of competent jurisdiction determines that a word, phrase, clause, sentence, paragraph, subsection, section or other provision is invalid or that the application of any part of the provision to any person or circumstances is invalid, the remaining provisions and the application of those provisions to other persons or circumstances are not affected by that decision.
- III. APPLICABILITY. The standards and provisions outlined within the Text shall apply to the 15.97± acres of land as described above unless otherwise approved by Grove City Council. Other provisions of the Grove City Code, including the Standard Drawings and other policies shall only apply to the extent that this Text does not address such matters.
- IV. CONFLICT. When there appears to be, or there is in fact, a conflict between the Text and the Final Development Plan, the more restrictive requirement/standard shall apply.
- V. DEVIATION. The standards, requirements and uses may be deviated from upon the request of City or Developer during the final development plan review process as long as such requests are consistent and harmonious with the overall intent and character of the development and do not diminish, detract or weaken the overall compatibility between uses in proximity of the Property. Deviations shall not be granted to individual homeowners, such individuals seeking relieve from the Text or Zoning Code shall do so through the appeals process as set forth in Grove City Code.
- VI. GENERAL REQUIREMENTS.
 - A. Streets / Sidewalks
 1. Pavement Width. Private drives shall have a minimum pavement width of 22 feet measured from face-of-curb to face-of-curb.
 2. Side Walks. Sidewalks shall be installed along Orders Rd. per the final development plan.
 3. Service Walks. Walks will be installed throughout the site to provide accessibility to parking and service areas.
 - B. Landscaping.
 1. Entrance Features. The general massing and location of plants and hardscape proposed as part of the entry features and the species of plants shall be approved with the final development plan.
 2. Street Trees. The provision for street trees shall be administered under Section 1136.09 of the Grove City Zoning Code.
 3. Site Landscaping. The site will be landscaped per the final development plan and will include a variety of plant species and trees to provide screening and natural amenities to highlight the site.
- VII. Requirements
 1. Intent. The intent of this subarea is to provide senior living housing choices.
 2. Permitted Uses. Independent Living; Enhanced Living; Assisted Living/Memory Care
 3. Lot Size. The facility will be located on the 15.97± acre site.
 4. Unit Sizes: Total Building - a minimum of 186,415 SF; Units vary from 480 SF - 1085 SF – 92

apartments will be made up of a minimum of seventy-two (72) 685 SF one-bedroom units, twelve (12) 965 SF two-bedroom units and eight (8) 1085 SF 2-bedroom deluxe units.

5. Yard Dimensions:

VII. Story Point Proposed Set Backs			
	Main Building	Accessory Building (Carports)	Parking/Drive Aisle
North	146'	170'	38'
South	248'	248'	128'
East	63'	58'	20'
West	106'	54'	18'

6. Unit Types: The housing programs for those requiring more services/assistance include The Harbors – an independent living program with a minimum of 30 additional apartments offering “catered” services providing moderate assistance to those with slightly higher needs, but not the intensity required of an assisted or nursing care resident. The Harbors, located in the southwest quadrant, is a 1-story wing (Approx. 27’-0” tall) made up of a minimum of four (4) 480 SF Studios, twenty-four (24) 640 SF 1-bedroom units and two (2) 950 SF 2-bedroom units. A specialized 1-story environment for seniors with Alzheimer’s or other associated dementias affecting memory and other cognitive skills is planned as a corrected, yet stand-alone minimum 36 unit, housing option for those unique seniors. The A.L. & Memory, located in the southeast quadrant, is a 1-story wing (Approx. 30’-0” tall) made up of a minimum of thirty-two (32) 295 SF 1-bed units and four (4) 450 SF 2-bed units.
7. Amenities: Amenities will include a variety of dining venues, indoor and outdoor activity areas, shops, postal services, bank, salon/barber, library and computer classroom and multi-purpose rooms for larger gatherings, fitness or other group activities. The use of these amenities are limited to the residents and their guests and are not open to the public.
8. Site and Building Design.
- Materials. Four-sided architecture with brick or stone foundations on all sides and common window fenestration will be encouraged to reflect a continuity of materials and architectural design for all elevations. Building materials including brick or stone and vinyl siding will be utilized on exterior walls.
 - Building Height. The maximum building height shall be (50) feet measured from the grade to the highest decorative element on the building and an average of (48.5) feet measured from the grade to the ridge line of the main roof for the 3-story portion.
 - Roof. All roof pitches must fall within the range of 6/12 – 12/12 with the exception of porch roof pitches which may not be less than 4/12 and minimal flat roof areas used to conceal mechanical equipment with parapet walls. The roof material will be dimensional architectural shingles at pitched roofs and membrane roofing at flat roof areas.
 - Driveways. Driveways shall be constructed of stone base, concrete curbs and asphalt paving.
 - Detached Structures. Car Ports covering a minimum of (26) parking spaces.
 - Outdoor Space. Outdoor areas will be serviced with patios, courtyards and ADA accessible sidewalks with widths and locations per the submitted plan.
9. Parking. There will be a minimum of (178) parking spaces provided for staff, visitors and tenants.

Date: 08/07/15
Introduced By: Ms. K-McGraw
Committee: Lands
Originated By: Plan Comm
Approved:
Emergency: 30 Days: X
Current Expense:

No.: C-57-15
1st Reading: 08/17/15
Public Notice: 8/20/15
2nd Reading: 09/08/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-57-15

AN ORDINANCE TO ACCEPT THE PLAT OF CLAYBROOK CROSSING, SECTION 6, PART 1

WHEREAS, Claybrook Crossing, Section 6, Part 1, a subdivision containing lots 132, 173 to 176, 190 to 200, and 207 to 209, all inclusive has been submitted to Council for their consideration.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The Plat of Claybrook Crossing, Section 6, Part 1, situated in the State of Ohio, County of Franklin, Township of Jackson, City of Grove City and being part of Virginia Military Survey No. 1383, containing 6.551 acres of land, more or less. Said 6.551 acres being part of those tracts of land conveyed to Grand Communities, LTD, by deed, all being of record in the Recorder's Office, Franklin County, Ohio, is hereby accepted and this Council accepts for public use the street right of way that is within the boundaries of this subdivision.

SECTION 2. Easements, where indicated on the plat, are hereby accepted for operation and maintenance of public utility services including but not limited to water, sanitary sewers, electricity and telephone, and to companies providing cable television and cable signal transmission services and for storm water drainage systems for the construction, operation and maintenance of the facilities to provide such services and systems above and beneath the ground.

SECTION 3. This ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:
Effective:

Richard L. Stage, Mayor

Attest:

Tami K. Kelly, MMC, Clerk of Council

I Certify that this ordinance
is correct as to form.

Stephen J. Smith, Director of Law

Date: 08/07/15
Introduced By: Ms. K-McGraw
Committee: Lands
Originated By: Plan Comm
Approved:
Emergency: 30 Days: X
Current Expense:

No.: C-58-15
1st Reading: 08/17/15
Public Notice: 8/20/15
2nd Reading: 09/08/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-58-15

AN ORDINANCE TO ACCEPT THE PLAT OF MARGIE'S COVE, SECTION 2, PART 2

WHEREAS, Margie's Cove, Section 2, Part 2, a subdivision containing lots 50 to 66, both inclusive has been submitted to Council for their consideration.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The Plat of Margie's Cove, Section 2, Part 2, situated in the State of Ohio, County of Franklin, Township of Jackson, City of Grove City and being part of Virginia Military Survey No. 1383, containing 6.403 acres of land, more or less. Said 6.403 acres being part of those tracts of land conveyed to Grand Communities, LTD, by deed, all being of record in the Recorder's Office, Franklin County, Ohio, is hereby accepted and this Council accepts for public use the street right of way that is within the boundaries of this subdivision.

SECTION 2. Easements, where indicated on the plat, are hereby accepted for operation and maintenance of public utility services including but not limited to water, sanitary sewers, electricity and telephone, and to companies providing cable television and cable signal transmission services and for storm water drainage systems for the construction, operation and maintenance of the facilities to provide such services and systems above and beneath the ground.

SECTION 3. This ordinance shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council

Passed:
Effective:

Richard L. Stage, Mayor

Attest:

Tami K. Kelly, MMC, Clerk of Council

I Certify that this ordinance
is correct as to form.

Stephen J. Smith, Director of Law

Date: 09/02/15
Introduced By: Ms. K-McGraw
Committee: Lands
Originated By: Mr. Smith
Approved: Mr. Boso
Emergency: 30 Days: X
Current Expense:

No.: C-69-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-69-15

AN ORDINANCE AUTHORIZING THE ANNEXATION OF 7.1 ± ACRES OF PROPERTY LOCATED ON ORDERS ROAD FROM JACKSON TOWNSHIP TO THE CITY OF GROVE CITY

WHEREAS, the City of Grove City desires to annex from Jackson Township 7.1 acres, more or less, of property located on Orders Road that is owned in fee simple by the City of Grove City as legally described in Exhibit A and depicted in the annexation plat attached hereto as Exhibit B; and

WHEREAS, the City of Grove City desires to annex this roadway property per the advice of Franklin County in order to maintain the significant improvements being made to the roadway by the City of Grove City as well as to regulate speed on the roadway; and

WHEREAS, pursuant to Ohio Revised Code Section 709.16, the City of Grove City has the authority to petition the Board of County Commissioners of Franklin County, State of Ohio, to annex this property as the property is contiguous to the corporation line of the City of Grove City, and the property is owned in fee simple by the City of Grove City; and

WHEREAS, upon receipt of an annexation petition from the City of Grove City for the annexation of the property, the Board of County Commissioners of Franklin County, State of Ohio, shall grant the annexation petition.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City of Grove City hereby authorizes the annexation from Jackson Township of 7.1 acres, more or less, of property located on Orders Road and owned in fee simple by the City of Grove City as legally described in Exhibit "A" and depicted in the annexation plat attached hereto as Exhibit "B".

SECTION 2. The City Law Director and the City Clerk are hereby vested with the authority to file an annexation petition for the annexation of this property with the Board of County Commissioners of Franklin County, State of Ohio.

SECTION 3. This Ordinance shall take effect at the earliest date permitted by law.

Ted A. Berry, President of Council

Passed:

Richard L. Stage, Mayor

Effective:

Attest:

Tami K. Kelly, MMC, Clerk of Council

FROM: JACKSON TOWNSHIP

TO: CITY OF GROVE CITY

7.1± ACRES
C-69-15
Exhibit 'A'

Situated in the State of Ohio, County of Franklin, Township of Jackson, lying in Virginia Military Survey Numbers 1371, 1383, and 1434, being part of Orders Road as shown in Plat Book 37, Page 85, Road Record 8, Page 11, Plat Book 102, Pages 88-91, Plat Book 103, Pages 91-92, and Road Record 7, Page 363, being part of Haughn Road as shown in Road Record 7, Page 363, and Plat Book 102, Pages 88-91, being all of that 0.896 acre tract conveyed to Franklin County Commissioners by deed of record in Instrument Number 200408170192072, and all of those 0.065, 0.069, 2.306, 0.069, 0.103, 0.103, 0.120, 0.113, 2.250, 0.473, 0.076, 0.103, 0.138, 0.062, 0.096, 0.204, 0.161, 0.080, 0.585, 0.080, 0.080, 0.096, and 0.080 acre tracts conveyed to City of Grove City, Ohio by deeds of record in Instrument Numbers 201505140062891, 201505200066037, 201508170113705, 201507270102549, 201505210067215, 201505140062870, 201505140062895, 201505140062898, 201410310144844, 201505180064433, 201505140062881, 201505210067216, 201506230084422, 201507060090398, 201508130112369, 201505140062886, 201505140062875, 201505140062884, 200510250224243, 201505140062889, 201505140062874, 201505140062877, and 201505140062890, respectively (all references are to the records of the Recorder's Office, Franklin County, Ohio) and being more particularly described as follows:

BEGINNING at the northwesterly corner of said 0.065 acre tract, the northeasterly corner of that 0.065 acre tract conveyed to City of Grove City, Ohio by deed of record in Instrument Number 201505200066039, the southwesterly corner of the remainder of that original 0.720 acre tract conveyed to Richard A. Smith and Karin M. Smith by deed of record in Instrument Number 199811040283378, the southeasterly corner of the remainder of that original 0.720 acre tract conveyed to Randell C. Forrest, Trustee by deed of record in Instrument Number 201111170150361, being in the northerly right-of-way line of said Orders Road, in the existing City of Grove City Corporation Line, as established by Ordinance Number C-31-02, of record in Instrument Number 200204260105091;

Thence South 87° 40' 21" East, with said northerly right-of-way line, the northerly lines of said 0.065, 0.069, 0.069, and 0.103 acre tracts, partially with the northerly line of said 0.103 acre tract, with the southerly lines of the remainder of said 0.720 acre tract, the remainder of that 0.987 acre tract conveyed to Matthew A. Watkins and Patricia A. Watkins by deed of record in Instrument Number 200903180037902, Lot 1 of that subdivision entitled "Southern Grove Estates", of record in Plat Book 37, Page 85, as conveyed to Fred R. Hammond, Jr. and Patricia J. Hammond by deed of record in Official Record 31774J17, Lot 2 of said "Southern Grove Estates", as conveyed to Nancy L. Summers by deed of record in Instrument Number 200805060069452, Lot 16 of said "Southern Grove Estates", as conveyed to Victor E. Leonard by deed of record in Instrument Number 200503040040065, the remainder of that 0.528 acre tract conveyed to Kevin S. Gangloff by deed of record in Instrument Number 200003020042148, and the remainder of that 1.554 acre tract conveyed to John W. Fowble and Ann B. Fowble by deed of record in Instrument Number 200205140120508, partially with the southerly line of the remainder of that 1.555 acre tract conveyed to Donald P. Casey and Bonnie J. Casey by deed of record in Instrument Number 201405280065726, across Southern Grove Drive, as shown in Plat Book 37, Page 85, a distance of 946.92 feet to a point;

Thence South 87° 05' 39" East, continuing with said northerly right-of-way line and partially with said 0.103 acre tract, with the northerly line of said 0.120 acre tract, continuing partially with the southerly line of the remainder of said original 1.555 acre tract, with the southerly line of the remainder of that original 1.584 acre tract conveyed to William L. Cain by deed of record in Instrument Number 200909010127657, a distance of 281.08 feet to the northwesterly corner of said 0.113 acre tract, the southwesterly corner of the remainder of that 0.867 acre tract conveyed to Roger L. Spillman and Donna J. Spillman by deed of record in Instrument Number 200301210020734, being in the existing City of Grove City Corporation Line, as established by Ordinance Number C-17-96, of record in Official Record 31719E10;

Thence South 01° 51' 04" West, with the line common to said 0.120 and 0.113 acre tracts, said Corporation Line, a distance of 10.00 feet to a point;

Thence South 87° 05' 39" East, across said 0.113 acre tract, continuing with said Corporation Line, with the old northerly right-of-way line of said Orders Road, a distance of 164.35 feet to a point in the westerly line of said 0.473 acre tract;

Thence North 02° 55' 55" East, with the line common to said 0.113 and 0.473 acre tracts, continuing with said Corporation Line, a distance of 10.00 feet to the southwesterly corner of that 0.506 acre tract conveyed to Ronald C. Kwast and Debra S. Kwast by deed of record in Official Record 12578118, being in the northerly right-of-way line of said Orders Road;

acre tract conveyed to Flossie Cutler, Kathy Slotter, and Terry Cutler by deed of record in Instrument Number 201402250023129, that 0.678 acre tract conveyed to Richard D. Wirtz and Terri L. Hayes by deed of record in Instrument Number 200808150125056, the remainder of that original 36.305 acre tract conveyed to Grand Communities, Ltd. by deed of record in Instrument Number 200801180009331, that 0.678 acre tract conveyed to Betty L. Sherrod by deeds of record in Deed Book 3675, Page 720, Instrument Number 200004050066592, and Instrument Number 200702270034041, that 0.505 acre tract conveyed to Richard C. Chaney and Dianna L. Chaney by deed of record in Instrument Number 201402180019761, the remainder of that 0.580 acre tract conveyed to Sean P. Adams by deed of record in Instrument Number 201209200140810, the remainder of that 1.4635 acre tract conveyed to Kyle S. Dupler and Mary J. Dupler by deed of record in Official Record 17752E03, the remainder of that 1.951 acre tract conveyed to Michael L. Haughn and Rochelle S. Haughn by deed of record in Instrument Number 200105040097323, partially with the existing City of Grove City Corporation Line, as established by Ordinance Number C-83-99, of record in Instrument Number 199912080302663 and as established by Ordinance Number C-29-02, of record in Instrument Number 200204260105091, partially across Haughn Road, as shown in Plat Book 102, Pages 88-91, a distance of 1321.51 feet to a point;

Thence South 86° 59' 34" East, partially across said Haughn Road, along said Orders Road with said Corporation Line, a distance of 1051.06 feet to a point;

Thence South 02° 57' 51" West, across said Orders Road, a distance of 60.00 feet to a point in the southerly right-of-way line of said Orders Road, the northerly line of Reserve "A" of that subdivision entitled "Haughn Heights", of record in Plat Book 37, Page 67, as conveyed to Joseph D. Brown and Marcia L. Brown by deed of record in Instrument Number 201209140136740;

Thence North 86° 59' 34" West, with said southerly right-of-way line, partially with the northerly line of said Reserve "A", with the northerly line of Lot 1 of said "Haughn Heights", as conveyed to Richard Carney and Christine Carney by deed of record in Instrument Number 2006081800164263, a distance of 80.95 feet to a point in the westerly line of said 0.080 acre tract;

Thence South 03° 00' 00" West, continuing with said southerly right-of-way line, with the line common to said 0.080 acre tract and said Lot 1, a distance of 5.00 feet to the northeasterly corner of the remainder of that 0.803 acre tract conveyed to Richard L. Greenway and Jayne R. Greenway by deed of record in Instrument Number 201303270050839;

Thence North 86° 59' 34" West, continuing with said southerly right-of-way line, with the southerly lines of said 0.080, 0.096, and 0.080 acre tracts, with the northerly line of said 0.803 acre tract, the remainder of that 0.689 acre tract conveyed to Dolores A. Sandine and Leonard E. Sandine by deed of record in Official Records 28566I08 and 35096B16, and Instrument Number 200104020066795, the remainder of that 0.574 acre tract conveyed to Donald G. Drummond and Marie K. Drummond by deed of record in Instrument Number 199912100304385, a distance of 320.15 feet to a point in the easterly line of that 0.574 acre tract conveyed to Bank of America, N.A. by deed of record in Instrument Number 201404280051710;

Thence North 03° 00' 20" East, with said easterly line, a distance of 35.00 feet to the northeasterly corner of said tract in the centerline of said Orders Road;

Thence North 86° 59' 34" West, with the northerly line of said 0.574 acre tract, a distance of 100.00 feet to the northwesterly corner of said tract and the northeasterly corner of said 0.080 acre tract;

Thence South 03° 00' 20" West, with the westerly line of said 0.574 acre tract, said easterly line, a distance of 35.00 feet to a point in said southerly right of way line;

Thence North 86° 59' 34" West, continuing with said southerly right-of-way line, with the southerly lines of said 0.080, 0.080, 0.161, and 0.204 acre tracts, with the northerly line of the remainder of that 0.574 acre tract conveyed to Robert P. Koehler by deed of record in Instrument Number 200804090054206, the remainder of that 0.574 acre tract conveyed to Frank E. Cordray by deeds of record in Deed Book 2353, Page 96, and Official Record 1123I16, the remainder of the 0.574 acre tract conveyed as Parcel I and the 0.574 acre tract conveyed as Parcel II to Carl A. Patzer and Nancy B. Patzer by deed of record in Deed Book 2375, Page 12, and the remainder of that 0.727 acre tract conveyed to Dorothy A. Miller by deeds of record in Instrument Numbers 199806170149850 and 201303220048045, a distance of 505.79 feet to a point;

Thence South 71° 09' 42" West, continuing with said southerly right-of-way line, the southerly line of said 0.204 acre tract, the northerly line of the remainder of said 0.727 acre tract, a distance of

Thence South 02° 36' 56" West, with said easterly right-of-way line, with the easterly lines of said 0.204, 0.062, and 0.096 acre tracts, the westerly lines of said 0.727 acre tract, the remainder of that original 0.460 acre tract conveyed to Betty D. Gardner by deed of record in Official Record 26655J05 and the remainder of that original 4.422 acre tract conveyed to Rebecca L. Absten and Michael J. Absten by deed of record in Instrument Number 200406090133243, a distance of 510.32 feet to a point in the northerly line of the remainder of that original 86.388 acre tract conveyed to Joseph D. Brown and Marcia L. Brown by deed of record in Instrument Number 201209140136739

Thence North 87° 08' 37" West, with the line common to said 0.096 acre tract and the remainder of said original 86.388 acre tract, a distance of 20.00 feet to a point in the centerline of said Haughn Road, and the easterly line of said 0.896 acre tract;

Thence South 02° 36' 56" West, with said centerline, the easterly line of said 0.896 acre tract, the westerly line of the remainder of said original 86.388 acre tract, a distance of 194.94 feet to a point;

Thence North 87° 23' 04" West, with the southerly line of said 0.896 acre tract, partially with a northerly line of the remainder of said 86.388 acre tract, partially across the right-of-way of said Haughn Road, partially with the westerly right-of-way line of said Haughn Road, a distance of 50.00 feet to a point;

Thence North 02° 36' 56" East, with said westerly right-of-way line, with the line common to said 0.896 acre tract and the remainder of said 86.388 acre tract, a distance of 371.54 feet to the southerly corner of said 2.250 acre tract;

Thence with the line common to said 2.250 acre tract and the remainder of said original 86.388 acre tract, the following courses and distances:

North 09° 55' 41" West, a distance of 234.82 feet to a point;

North 26° 06' 28" West, a distance of 114.30 feet to a point;

North 86° 59' 05" West, a distance of 1165.83 feet to a point;

North 87° 05' 39" West, a distance of 445.16 feet to a point; and

North 87° 40' 21" West, a distance of 0.78 feet to the southeasterly corner of said 2.306 acre tract, being in the existing City of Grove City Corporation Line, as established by Ordinance Number C-17-96, of record in Official Record 31719E10;

Thence North 03° 30' 23" East, with the line common to said 2.250 and 2.306 acre tracts, with said Corporation Line, a distance of 30.01 feet to a point;

Thence North 87° 40' 21" West, across said 2.306 acre tract, with said Corporation Line, a distance of 946.02 feet to a point;

Thence North 01° 56' 43" East, across said 2.306 acre tract, with the westerly line of said 0.065 acre tract, the easterly line of said 0.065 acre tract, said Corporation Line, a distance of 50.00 feet to the POINT OF BEGINNING containing 7.1 acres, more or less.

This description is for annexation purposes only and is not to be used for transfer.

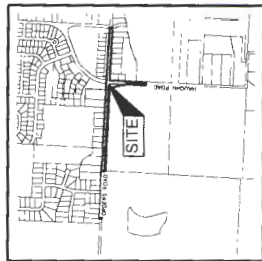
EVANS, MECHWART, HAMBLETON & TILTON, INC.

Joshua M. Meyer
Professional Surveyor No. 8485

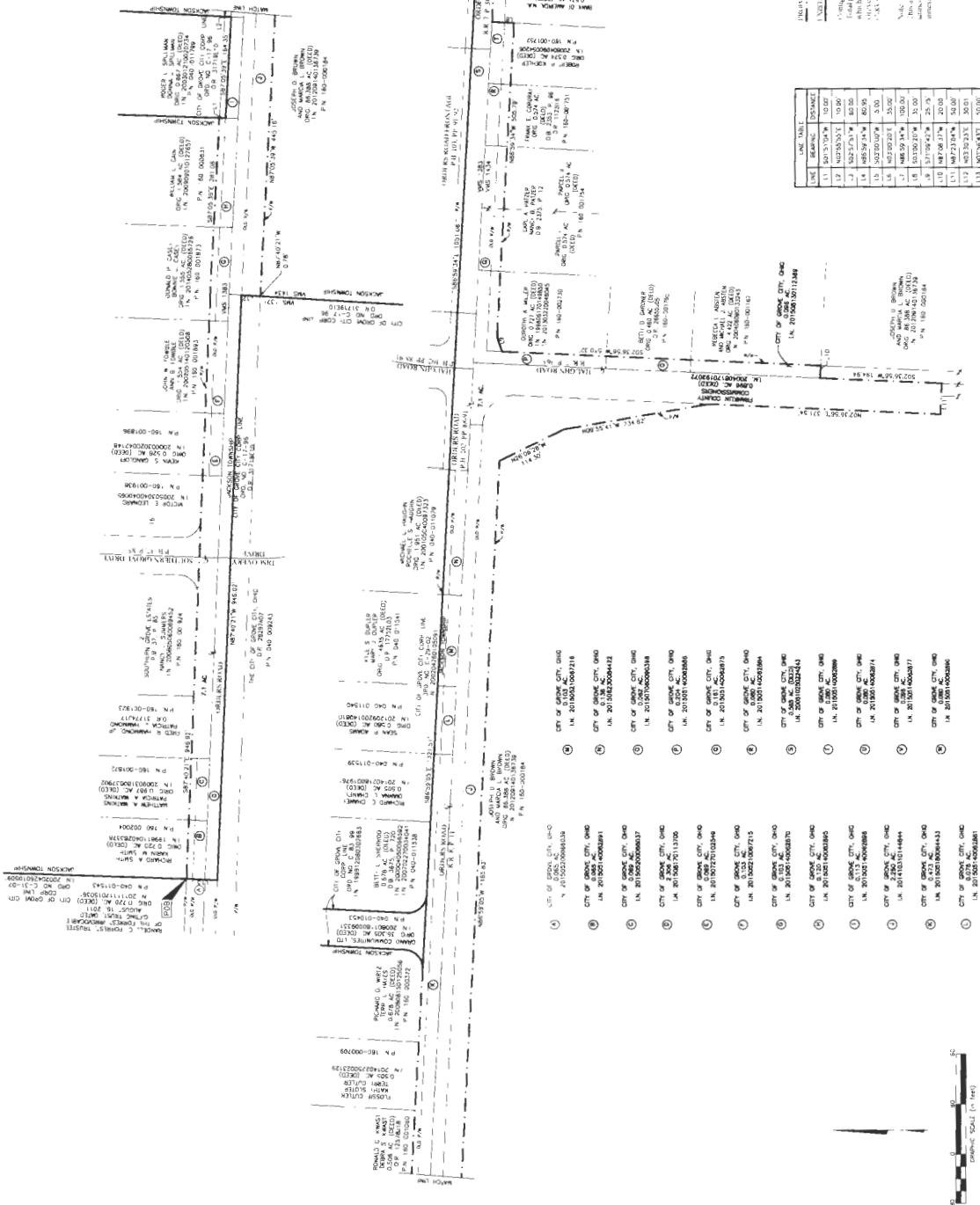
Date

C-69-15
Exhibit 'B'

ANNEXATION OF 7.1± ACRES **VIRGINIA MILITARY SURVEY NOS. 1371, 1383, & 1434** **TOWNSHIP OF JACKSON, COUNTY OF FRANKLIN, STATE OF OHIO**



LOCATION MAP AND BACKGROUND DRAWING
SCALE: Not to Scale



LINE	BEARING	DISTANCE
1	S 89° 55' 30" E	10.00
2	S 89° 55' 30" E	10.00
3	S 89° 55' 30" E	10.00
4	S 89° 55' 30" E	10.00
5	S 89° 55' 30" E	10.00
6	S 89° 55' 30" E	10.00
7	S 89° 55' 30" E	10.00
8	S 89° 55' 30" E	10.00
9	S 89° 55' 30" E	10.00
10	S 89° 55' 30" E	10.00
11	S 89° 55' 30" E	10.00
12	S 89° 55' 30" E	10.00
13	S 89° 55' 30" E	10.00
14	S 89° 55' 30" E	10.00
15	S 89° 55' 30" E	10.00
16	S 89° 55' 30" E	10.00
17	S 89° 55' 30" E	10.00
18	S 89° 55' 30" E	10.00
19	S 89° 55' 30" E	10.00
20	S 89° 55' 30" E	10.00

EMH

Survey No. 1371, 1383, & 1434
 Date: August 26, 2013
 Scale: 1" = 80'
 Projected and Surveyed by: [Signature]
 State of Ohio, Franklin County, Jackson Township
 Surveyed by: [Signature]
 Date: August 26, 2013
 Scale: 1" = 80'
 Projected and Surveyed by: [Signature]

Date: 09/02/15
Introduced By: Ms. K-McGraw
Committee: Lands
Originated By: Mr. Smith
Approved: Mr. Boso
Emergency: 30 Days: X
Current Expense:

No.: C-70-15
1st Reading: 09/08/15
Public Notice: 09/10/15
2nd Reading: 09/21/15
Passed: Rejected:
Codified: Code No:
Passage Publication:

ORDINANCE C-70-15

AN ORDINANCE TO VACATE THE PUBLIC ALLEY LOCATED BETWEEN PARK STREET AND GROVE CITY ROAD

WHEREAS, on July 20, 2015 Council enacted Resolution CR-44-15 which approved the Development Plan for the Broadway and Park Apartments; and

WHEREAS, the vacation of the public alley located between Park Street and Grove City Road is necessary for the Project; and

WHEREAS, when a road is vacated under Ohio law, the roadway (alley) is split and attaches to the adjoining properties and, in this case, all of the adjoining properties are owned and controlled by the City. The entire property, including the vacated portion, will be conveyed to the Developer of the Project as authorized in Ordinance C-41-15; and

WHEREAS, Council is satisfied that there is good cause for the vacation of said portion of the public alley located between Park Street and Grove City Road and that it will not be detrimental to the general interest of the public.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The public alley located between Park Street and Grove City Road depicted in Exhibit "A" and as more fully described in Exhibit "B" is hereby vacated.

SECTION 2. This Ordinance shall take effect at earliest opportunity allowed by law.

Passed:

Effective:

Attest:

I certify that this
ordinance is correct as to form.

Ted A. Berry, President of Council

Richard L. Stage, Mayor

Tami K. Kelly, MMC, Clerk of Council

Stephen J. Smith, Director of Law

C-70-15

Exhibit A

SURVEY NOTE:

This survey was prepared using documents of record, prior plats of survey, and observed evidence located by an actual field survey

BASIS OF BEARINGS:

The bearings shown hereon are based on the Ohio State Plane Coordinate System, South Zone, NAD83 (CORS96). Said bearings originated from a field traverse which was referenced to said coordinate system by GPS observations and observations of selected CORS base stations in the National Spatial Reference System. A portion of the centerline of Grove City Road, having a bearing of South 87° 25' 43" East between Broadway and Front Street, is designated as the "basis of bearing" for this survey.

● = STONE FND.
 ■ = MON. FND.
 ● = I.P. FND.
 ○ = I.P. SET
 ● = MAG. NAIL FND.
 ○ = MAG. NAIL SET
 ▲ = R.R. SPK. FND.
 △ = R.R. SPK. SET
 ● = P.K. NAIL FND.

I.P. Set are 13/16" I.D. iron pipe with cap inscribed EMHT INC

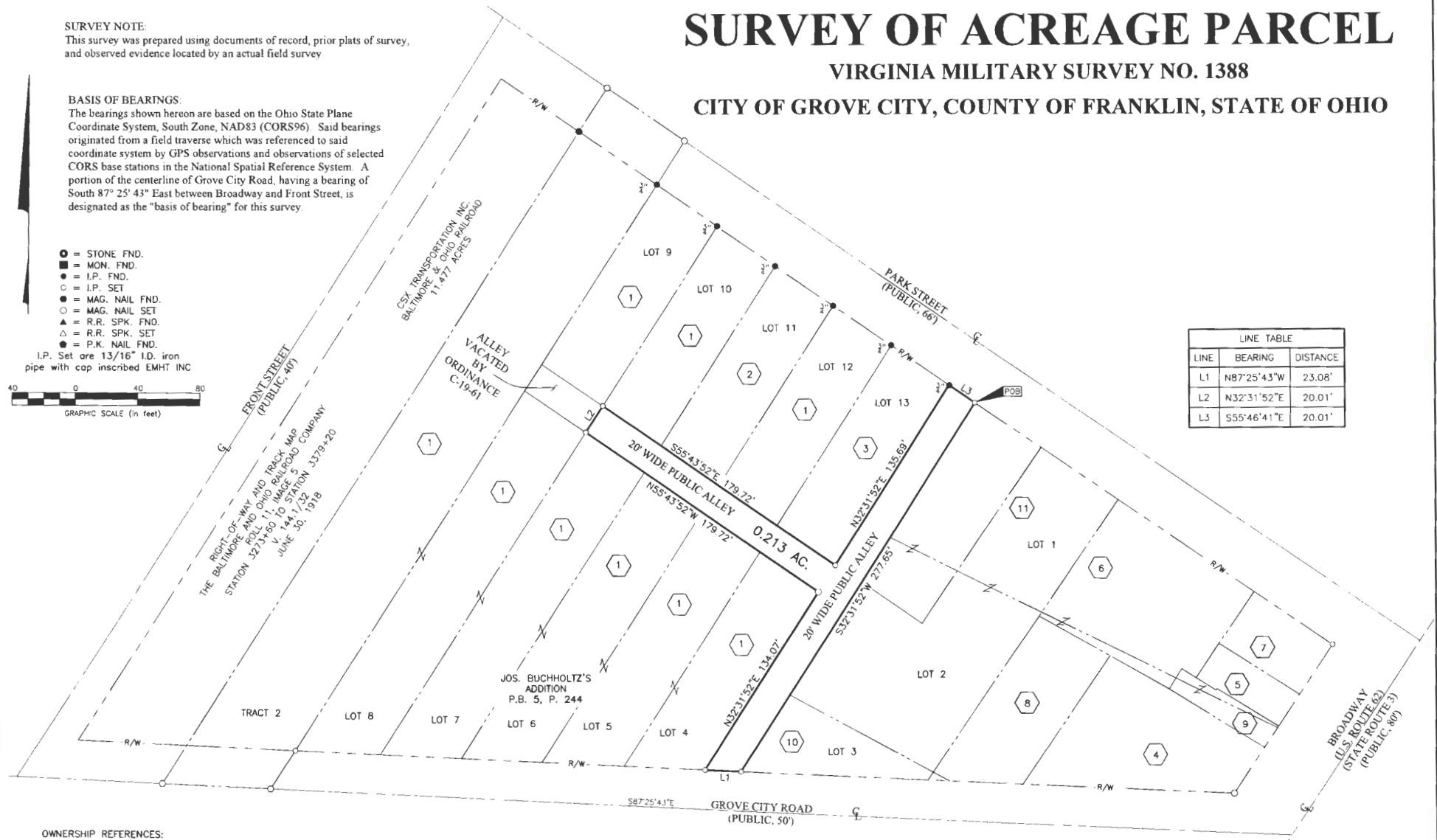
GRAPHIC SCALE (in feet)

SURVEY OF ACREAGE PARCEL

VIRGINIA MILITARY SURVEY NO. 1388

CITY OF GROVE CITY, COUNTY OF FRANKLIN, STATE OF OHIO

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N87°25'43"W	23.08'
L2	N32°31'52"E	20.01'
L3	S55°46'41"E	20.01'



OWNERSHIP REFERENCES:

- | | | |
|--|--|---|
| 1 THE CITY OF GROVE CITY, OHIO
IN: 200108130186816
P.N. 040-000102 | 5 THE CITY OF GROVE CITY, OHIO
O.R. 12666A20
P.N. 040-000045 | 9 THE CITY OF GROVE CITY, OHIO
O.R. 12270B16
P.N. 040-000045 |
| 2 THE CITY OF GROVE CITY
IN: 200302100041687
P.N. 040-000102 | 6 THE CITY OF GROVE CITY, OHIO
O.R. 11454G16
P.N. 040-000045 | 10 THE CITY OF GROVE CITY
O.R. 13786F16 & O.R. 13786F17
P.N. 040-000045 |
| 3 THE CITY OF GROVE CITY, OHIO
O.R. 34083G17
P.N. 040-000102 | 7 THE CITY OF GROVE CITY, OHIO
O.R. 12098G08
P.N. 040-000045 | 11 THE CITY OF GROVE CITY
O.R. 12371D16
P.N. 040-000045 |
| 4 THE CITY OF GROVE CITY
O.R. 11964H18
P.N. 040-000045 | 8 THE CITY OF GROVE CITY, OHIO
O.R. 11545J04
P.N. 040-000045 | |

By

John C. Dodgion
Professional Surveyor No. 8069

Date

EMHT
 Evans, Mechwart, Hambleton & Tilton, Inc.
 Engineers • Surveyors • Planners • Scientists
 5850 New Albany Road, Columbus, OH 43004
 Phone: 614.775.4500 Toll Free: 888.775.3648
 emht.com

Date: August 28, 2015

Scale: 1" = 40'

Job No: 2015-0898

Sheet: 1 of 1

REVISIONS

MARK	DATE	DESCRIPTION

C-70-15 Exhibit "B"
0.213 ACRE

Situated in the State of Ohio, County of Franklin, City of Grove City, Virginia Military Survey Number 1388 and being the remainder of the 20 foot wide alleys dedicated to public use by the subdivision entitled "Jos. Buchholtz's Addition" of record in Plat Book 5, Page 244, (all references are to the records of the Recorder's Office, Franklin County, Ohio) and being more particularly described as follows:

Beginning at an iron pin set at the northwesterly corner of Lot 1 of said "Jos. Buchholtz's Addition" and the intersection of the southerly right-of-way line of Park Street (66 feet wide) with the easterly line of the said 20 foot alley;

thence South $32^{\circ} 31' 52''$ West, with said easterly right-of-way line and the westerly line of Lots 1, 2, and 3 of said "Jos. Buchholtz's Addition", a distance of 277.65 feet to an iron pin set at the southwest corner of said Lot 3 and the intersection of said easterly right-of-way line with the northerly right-of-way line of Grove City Road (50 feet wide);

thence North $87^{\circ} 25' 43''$ West, with the southerly terminus said 20 foot alley and said northerly right-of-way line extended, a distance of 23.08 feet to an iron pin set at the intersection of said northerly right-of-way line with the westerly right-of-way line of said 20 foot alley and the southeasterly corner of Lot 4 of said "Jos. Buchholtz's Addition";

thence North $32^{\circ} 31' 52''$ East, with said westerly right-of-way line and the easterly line of said Lot 4, a distance of 134.07 feet to a magnetic nail set at a northeasterly corner of said Lot 4 and the intersection of said westerly right-of-way line with the southerly right-of-way line of a 20 foot alley;

thence North $55^{\circ} 43' 52''$ West, with said southerly right-of-way line and the northerly line of said Lot 4 and Lots 5, 6, and 7 of said "Jos. Buchholtz's Addition", a distance of 179.72 feet to an iron pin set at the corner common to said Lot 7 and Lot 8 of "Jos. Buchholtz's Addition", the westerly terminus of said southerly right-of-way line, and the southeasterly corner of the portion of said 20 foot alley vacated by City of Grove City Ordinance C-19-61;

thence North $32^{\circ} 31' 52''$ East, with the westerly terminus of said 20 foot alley and the easterly line of said vacated 20 foot alley, a distance of 20.01 feet to an iron pin set at a common corner thereof and the corner common to Lots 9 and 10 of "Jos. Buchholtz's Addition";

thence South $55^{\circ} 43' 52''$ East, with the northerly right-of-way line of said 20 foot alley and the southerly line of said Lot 10 and Lots 11, 12, and 13 of "Jos. Buchholtz's Addition", a distance of 179.72 feet to an iron pin set at a southeasterly corner of said Lot 13 and the intersection of said northerly right-of-way line with the westerly right-of-way line of said 20 foot alley;

thence North $32^{\circ} 31' 52''$ East, with the easterly line of said Lot 13 and said westerly right-of-way line, a distance of 135.69 feet to a $\frac{3}{4}$ " iron pin found at a northeasterly corner of said Lot 13 and the intersection of said westerly right-of-way line with the southerly right-of-way of Park Street;

thence South $55^{\circ} 46' 41''$ East, with the northerly terminus of said 20 foot alley and said southerly right-of-way line extended, a distance of 20.01 feet, to the *Point of Beginning*.

Containing 0.213 acre, more or less.

Subject, however, to all legal rights-of-way and/or easements, if any, of previous record.

C-70-15 Exhibit "B"

0.213 ACRE

Continued

Iron pins set, where indicated, are iron pipes, thirteen sixteenths (13/16) inch inside diameter, thirty (30) inches long with a plastic plug placed in the top bearing the initials EMHT INC.

The bearings herein are based on the Ohio State Plane Coordinate System, South Zone, NAD83 (CORS96). Said bearings originated from a field traverse which was referenced to said coordinate system by GPS observations and observations of selected CORS base stations in the National Spatial Reference System. A portion of the centerline of Grove City Road, having a bearing of South 87° 25' 43" East between Broadway and Front Street, is designated as the "basis of bearing" for this survey.

This description was prepared using documents of record, prior plats of survey and observed evidence from an actual field survey.

EVANS, MECHWART, HAMBLETON & TILTON, INC.

John C. Dodgion
Professional Surveyor No. 8069

Date

Date: 09/02/15
Introduced By: Ms. KMcGraw
Committee: Lands
Originated By: City Clerk
Approved: _____
Emergency: 30 Days: _____
Current Expense: _____

No. : CR-52-15
1st Reading: 09/08/2015
Public Notice: _____
2nd Reading: _____
Passed: _____ Rejected: _____
Codified: _____ Code No: _____
Passage Publication: _____

RESOLUTION NO. CR-52-15

A RESOLUTION TO SET FORTH, AS REQUIRED BY SECTION 709.031 OF THE OHIO REVISED CODE
THE MUNICIPAL SERVICES THAT CAN BE FURNISHED TO 0.687 ACRES LOCATED AT
3811 MAYFAIR DRIVE IN JACKSON TOWNSHIP UPON ITS ANNEXATION TO THE CITY OF GROVE CITY

WHEREAS, a petition to annex 0.687 $\pm$ acres located at 3811 Mayfair Drive, in Jackson Township to the City of Grove City and signed by Drema K. Rowe, was filed with the Board of County Commissioners of Franklin County, Ohio; and

WHEREAS, a hearing on this petition is scheduled before the Board of County Commissioners of Franklin County; and

WHEREAS, Section 709.031 of the Ohio Revised Code requires that the legislative authority of the municipality to which the annexation is proposed adopt a statement indicating what services, if any, the municipal corporation will provide to the territory proposed for annexation upon its annexation.

NOW, THEREFORE BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO,
THAT:

SECTION 1. Upon its annexation to the City of Grove City, the 0.687 $\pm$ acres located at 3811 Mayfair Drive, proposed for annexation by Drema K. Rowe, will receive the following municipal services from the City of Grove City:

Fire:	Jackson Township will continue to provide Fire protection.
Police:	The City of Grove City, Police department, will provide police protection.
Water:	The City of Grove City has a water service area contract with the City of Columbus, and the subject property is within the service area. Conditional on the ability of the City of Columbus to provide water, the City of Grove City will have the ability to service this area. It is understood that all water line extensions are the responsibility of the property owner, and upon the receipt of all necessary permits and payments of all costs for connections thereto, such service shall become immediately available.
Sanitary Sewer:	The City has a written service area contract with the City of Columbus and the subject property is within the service area. Conditioned on the ability of the City of Columbus to provide sufficient sewage disposal capacity, the City of Grove City will have the ability to service the area. It is understood that all extensions of the sanitary sewer service is the responsibility of the property owner, and upon the receipt of all necessary permits and payments of all costs for connections thereto, such service shall become immediately available.
Solid Waste Collection:	Subject property is now serviced by and will continue to be serviced by a publicly bid contract for solid waste and recycling services.
Zoning:	In accordance with Section 1139.05(a) the Codified Ordinances of Grove City, Ohio, all annexed territory zoned under County or Township zoning shall be classified at the most comparable district of the Grove City Zoning Code, unless otherwise requested by the petitioner and approved by the City Council at which time a buffer will be required if the requested zoning classification is clearly incompatible with uses permitted under current county or township zoning regulations in the adjacent land remaining within the township from which the territory is to be annexed.

SECTION 2. This resolution shall take effect at the earliest opportunity allowed by law.

Ted A. Berry, President of Council