

7. **JOURNALIZED SPEED LIMIT:**

N/A

8. **TYPICAL SECTION:**

See additional information.

9. **ALIGNMENT:**

See additional information.

10. **RETAINING WALLS:**

Number of Retaining Walls: _____

Type(s) of Retaining Walls: _____

Phase A: _____ Wall Justification: _____

Phase B: _____

The need for retaining walls will be determined by the Township in conjunction with the County Engineer as the plans are prepared. Design of any required retaining walls will be handled by an Amendment to the Agreement.

If the Engineer determines that a retaining wall is necessary, any wall over three (3) feet in height, as measured from the top of the footer to the top of the wall, **MUST** be engineered and a wall profile, indicating the height of the wall and other pertinent wall details, **MUST** be included in the plans.

ALL pre-manufactured/modular unit walls, i.e. Keystone walls, **MUST** be designed in strict accordance with the Manufacturer's requirements. **ALL** details for the construction of these walls **MUST** be in strict accordance with the Manufacturer's requirements.

The plan view(s) and detail(s) for a wall **MUST** indicate the length of any tie-back systems that are required for the construction of the wall.

The Consultant shall use the geotechnical information to determine if the Contractor will be required to employ measures to ensure the stability of the hillside during construction of the wall.

If the project involves the construction of new retaining wall(s) or involves any work on existing retaining wall(s) along an existing drainage channel, i.e. major creek, stream or river, and the work may impact the cross-sectional area of the drainage channel and/or the flow capacity of the channel, the Consultant **MUST** complete the computations necessary for HC Public Works "No Rise Certificate" and **MUST** complete the form and submit the form with the Final Plans.

11. MAINTENANCE OF TRAFFIC:

Maintenance of Pedestrian Traffic: _____

Maintenance of Railroad Traffic: _____

Maintenance of Vehicular Traffic: _____

Temporary Road(s): _____ Phase A to Recommend: _____

Temporary Road Plans & Notes by: County _____ Consultant _____

Detour Plan Prepared by: County _____ Consultant _____

During the construction of the improvements, it is currently presumed that the road(s) are to remain open to through and local traffic and that the construction is to be completed under traffic.

To the satisfaction of and subject to the Engineer's review and approval, a tentative outline for the sequence of construction, a maintenance of traffic plan and/or maintenance of traffic notes in sufficient detail for the proper control of traffic through the project, especially involving ingress to and egress from the abutting properties within the project area shall be prepared.

As may be applicable during the preparation of the plans, the Consultant shall work with the Engineer to determine if alternative methods of handling traffic would be warranted and desirable during the construction of the project. These measures may include, but not be limited to, the detouring of all through traffic while maintaining local traffic or the maintaining of through traffic on a one-way only basis. If the Engineer authorizes other methods, the Consultant will work with the Engineer to determine if special restrictions are to be enforced during the implementation of the alternate measure(s), i.e. a total time duration, a daily time/hour restriction, etc. The Consultant will also work with the Engineer's Traffic Department to determine the detour route and prepare the necessary detour plan(s). As necessary for the alternative measures, the Consultant is to prepare a tentative outline for the sequence of construction, a maintenance of traffic plan and/or maintenance of traffic notes in sufficient detail for the proper control of traffic through the project, especially involving ingress to and egress from the abutting properties within the project area.

This item of work shall also include the preparation of any necessary plans that indicate temporary work zone pavement markings and/or signs that are to be included in the project, especially where the number of traveled lanes and/or the width of traveled pavement are to be decreased during construction.

All items of work relating to the maintenance of traffic are to be submitted with the final plan review submission.

15. EXTENT OF FIELD SURVEYS:

Survey Information Required:

- Main Road Alignment (X)
- Main Road Profile (X)
- Side Road Alignment ()
- Side Road Profile ()
- Reference Points & Bench Marks (X)
- Alignment & Profile of Driveways (X)
- Cross Sections (X)
- Pavement Salvage Sections ()
- Ex. Drainage Facilities/Drainage Survey (X)
- Profile of Channel ()
- Channel Cross Sections ()
- Topo Identification (X)
- Utilities (public and/or private facilities) (X)
- Property Lines (X)
- Existing Right-of-way lines (X)
- Aerial Control ()

16. RIGHT-OF-WAY AND EASEMENTS:

- R/W Summary (X)
- Final Right-of-way Plans (X)
- R/W & Easement Descriptions (X)
- Registered Land Plats & Descriptions (X)
- Establishment Plat (X)
- Establishment Descriptions (X)
- Property Map (X)
- Centerline Plat ()
- Right-of-way Staking ()

Approximate Number of Parcels _____

Preparation of Right-of-way and easement descriptions and plans will be handled by an Amendment to the Agreement.

17. GEOTECHNICAL/SUBSURFACE INVESTIGATION:

State _____ County _____ Consultant _____
Other Colerain Township

Work to be completed as needed. The Consultant is to determine, in conjunction with the Engineer, the amount and type of work to be performed. The Consultant shall work with the geotechnical firm to ensure that the geotechnical information necessary for the design of the various components of the improvements, i.e. pavement section, retaining walls, is obtained. This information may include the determination of the CBR, the Attenburg limits and the moisture content of the soil. The Consultant will be responsible for establishing the required field control and for field locating the boring locations.

18. PRIOR STUDIES:

“Safe Routes to School” study completed by DGL and “Flight for Safe Travel Plan” completed by Cardinal.

19. PUBLIC INFORMATION MEETINGS:

The Township will schedule a public information meeting. See the additional information.

The Consultant will prepare all of the exhibits necessary for this meeting. The required exhibits will indicate the proposed improvements; the approximate limits of construction; typical cross sections; critical driveway profiles and the approximate/preliminary Right-of-way and easement takes.

The Consultant will attend this meeting. The Consultant **MUST** maintain a record of the attendees at the meeting, including the name, address and telephone number. The Consultant **MUST** maintain a record of the comments received during this meeting, including the name of the individual submitting the comment.

As the project proceeds through the detailed engineering, the Consultant **MUST** maintain a record indicating how each of the comments that were originally accepted were addressed or, in the case where unforeseen problems are encountered, the reason why the comment could not be accommodated during the design process. The Consultant **MUST** submit the complete report, including the comments and the final response or resolution, to the Engineer with the final plan submittal.

20. The project will include all office and field work necessary to a) prepare final construction plans, b) write general and special notes, c) calculate quantities, and d) determine existing right-of-way and property lines.

Unless otherwise noted in this Scope, proposed right-of-way plans and descriptions and the establishment plat and descriptions shall be handled on an as necessary basis by amendment to the original agreement.

County will prepare bid document, prints, etc. for bidding process.

21. Unless otherwise indicated by the ODOT LPA Scope of Services form, the plan development will require the following submittals and each submittal will be subject to a review by the Engineer:

A. Submittal of **Phase A** plans

Includes line, grade and typical sections; plotting of critical cross sections; plotting of critical driveway profiles; preliminary drainage plans; preliminary drainage calculations; preliminary plans/details for any special project features, i.e. bridge modifications, retaining walls; information regarding the location of all existing underground utilities, either public or private.

B. Submittal of **Phase B** plans

Includes detailed plans and cross sections; specifications and special notes; driveway modification plans/profiles; detailed plans/details for any special project features, i.e. bridge modifications, retaining walls; preliminary maintenance of traffic plans/notes; preliminary quantities; final drainage calculations.

C. Submittal of **Final** revised plans and **Preliminary right-of-way** plans

Includes final detailed plans and cross sections, revised in accordance with Engineer's review comments; final quantities, revised in accordance with Engineer's review comments; quantity calculations for the required items; final specifications and special notes, revised in accordance with Engineer's review comments; final maintenance of traffic plans/notes, revised in accordance with Engineer's review comments; preliminary right-of-way plans.

D. Submittal of **Final** right-of-way plans and **Preliminary** establishment plats

Includes final right-of-way plans, revised in accordance with Engineer's review comments; preliminary right-of-way/easement descriptions; preliminary right-of-way/easement closures; preliminary establishment plats; preliminary establishment descriptions; preliminary establishment closures.

E. Submittal of **Final** establishment plats

Includes final right-of-way/easement descriptions, revised in accordance with Engineer's review comments; final right-of-way/easement closures; final establishment plats, revised in accordance with Engineer's review comments; final establishment descriptions, revised in accordance with Engineer's review comments; final establishment closures.

In addition to these reviews, the County may also require **MONTHLY** progress reports.

22. The addresses, i.e. house numbers, shall be indicated on the plan and right-of-way sheets.
23. The necessary fieldwork shall be completed and the plans prepared so as to have the stationing for the project increase from South to North or from West to East, as may be applicable, unless otherwise approved by the Engineer.
24. The baseline and/or centerline shall be adequately marked in the field. The points set in the field shall be shown on the plans. At a minimum, the points to be marked in the field shall be located at one hundred (100) foot intervals. The PC, PI and PT of each curve shall also be marked. In addition, the PC, PI and PT of each curve **AND** the baseline/centerline at intervals **NOT** to exceed one thousand (1000) feet shall be **WITNESSED**. As required, the points to be witnessed in the field shall be witnessed from a **MINIMUM** of three (3) points, located outside of the work limits.

Where a baseline has been established and utilized, instead of the centerline, the plans **MUST** indicate the relationship between the baseline marked in the field and the centerline.

The construction plans and the right-of-way plans shall also indicate all existing or set monumentation (centerline, right-of-way, subdivision, and/or civil boundaries) that is found in the field to be within the project limits. This monumentation shall be located, identified, shown and labeled on the plans.

The construction plans and the right-of-way plans are to be referenced to the **STATE PLANE COORDINATE** system. This will require that **STATE PLANE COORDINATES** be shown on the plans for the PC, PI and PT for each curve, all angle points and termination points. This will be applicable to proposed right-of-way lines, permanent easement lines, proposed centerline and/or baseline. Mr. Bob Heidkamp (513-946-4265) should be contacted to obtain the information regarding the nearest established benchmark.

25. As required by the design of the proposed improvements, the existing drainage systems are to be left in place, modified, replaced and/or new systems are to be installed.

A **FIELD VISUAL INSPECTION** of **ALL** of the existing systems/conduits shall be completed so as to determine the type and size of the conduit(s) and to evaluate the condition of the conduit(s). This shall require that, at a minimum, a visual inspection of the existing conduits at the inlet end, at the outlet end and at each catch basin, manhole, or other junction point.

After the Phase A submittal, the Engineer will also field inspect the existing systems/conduits and will determine which conduits are to remain in place or are to be replaced under the project. The Engineer will supply this information to the Consultant as quickly as possible. The Phase B plans shall be prepared so as to be in accordance with this information.

26. During the initial phases of the preparation of the Phase A plans, the Consultant **MUST** contact **ALL LOCAL** agencies that may have jurisdiction over and/or regulations covering storm water, storm water facilities and/or other drainage features, such as Special Flood Hazard Areas (SFHA). These local agencies will include, but not be limited to, the Metropolitan Sewer District (MSD) and Hamilton County Public Works. The Consultant **MUST** determine if any special design considerations/issues/restrictions, e.g. detention, will have to be addressed during the preparation of the plans. The Consultant **MUST** report these special design considerations/issues/restrictions to the Engineer as a part of the Phase A submittal.

During the initial phases of the preparation of the Phase A plans, the Consultant **MUST** also contact **ALL STATE** and/or **FEDERAL** agencies that may have jurisdiction over and/or regulations covering any creeks, streams, rivers or other drainage areas that may be impacted by the improvements. These agencies will include, but not be limited to, the Ohio Department of Natural Resources (ODNR), the Ohio EPA, the Army Corps of Engineers and FEMA. The Consultant **MUST** determine if any special design considerations/issues/restrictions, e.g. flood mitigation, will have to be addressed during the preparation of the plans; whether these other agencies will require a review of the plans and whether any of these agencies will require any special permits, e.g. 401/404 permits, for the project. The Consultant **MUST** report these special design considerations/issues/restrictions to the Engineer as a part of the Phase A submittal.

27. Unless otherwise directed by the Engineer, the improvements/modifications shall be designed to meet all current, applicable regulations/requirements for storm water quality, control of sedimentation, erosion, etc. The regulations/requirements may include, but not be limited to, those of OEPA, the local Storm Water District and/or Public Works. As part of the Phase A submittal, the Consultant is to make a recommendation to the Engineer concerning the most practical and cost effective best management practice (BMP) or practices that could be included in the final plans in order to meet the applicable regulations/requirements either during construction activities and/or post-construction.

After reviewing the recommendations made in the Phase A submittal, the Engineer will determine which, if any, of the BMP's are to be designed and included in the final improvement plans.

28. The capacity of any existing storm sewer system that is to remain in place shall be determined/calculated and the Consultant shall determine if an increase in capacity, i.e. a larger conduit, is required.

Unless otherwise directed by the Engineer or as may be modified below, when the project includes the construction/installation of new storm drainage facilities, the replacement/modification of existing storm drainage facilities or the construction of open channels/ditches and the Scope of Service indicates that the design of these facilities is to be in conformance with the Design Criteria of the County and/or Public Works, the design of the storm drainage facilities shall be in general conformance with the **guidelines** of the latest editions of "The Ohio Department of Transportation, Location and Design Manual, Volume Two, Drainage Design" and/or "The Rules and Regulations of the Pubic Works Department Governing the Design, Construction, Operation Maintenance & Use in the County of Hamilton Storm Drainage System".

Closed Storm Sewers:

The design of a closed storm sewer shall be based upon a ten (10) year storm.

The design of the closed storm sewer system shall also include the determination of spread of the flow on the pavement and the volume of by-pass at each catch basin. Unless otherwise directed by the Engineer, the maximum spread and the maximum by-pass permitted shall be in accordance with “The Rules and Regulations of the Public Works Department Governing the Design, Construction, Operation Maintenance & Use in the County of Hamilton Storm Drainage System”.

OUTSIDE of Consoer/Townsend (CT) areas or Special Flood Hazard Areas (SFHA), the hydraulic gradient for a fifty (50) year storm shall be calculated and plotted. **WITHIN** CT or SFHA areas, the hydraulic gradient for a one hundred (100) year storm shall be calculated and plotted.

Unless otherwise directed and/or approved by the Engineer, the closed storm system shall be designed so as to contain the hydraulic gradient for the pertinent storm within the facility. The hydraulic gradient **MAY NOT BE HIGHER** than six (6) inches below the elevation of the catch basin grate or the elevation of a manhole rim.

Cross Culverts (opening width less than ten feet):

The design of the facility shall be based upon a twenty-five (25) year storm.

Unless otherwise directed and/or approved by the Engineer, the cross culvert shall be designed so that the headwater for the design storm does **NOT** exceed the most restrictive elevation of the following:

- a) two (2) feet below the near, low edge of pavement;
- b) two (2) feet above the inlet crown of the culvert;
- c) above a tailwater elevation that would submerge the inlet crown.

The hydraulic gradient for a one hundred (100) year storm is to be calculated and plotted.

Unless otherwise directed and/or approved by the Engineer, the cross culvert shall be designed so that the headwater for the one hundred (100) year storm does **NOT** exceed the most restrictive elevation of the following:

- a) one (1) foot below the lowest ground elevation adjacent to an occupied building;
- b) a headwater depth twice the diameter or the rise of the cross culvert;
- c) **NO** overtopping of the pavement;
- d) **NO** significant increase in headwater elevation.

Bridges (opening width ten foot and greater):

The design of the bridge opening shall be based upon a fifty (50) year storm.

The hydraulic gradient for a one hundred (100) year storm shall be calculated and plotted.

The width of the opening of the existing bridge is to be the **MINIMUM** width to be maintained; **NO DECREASE** in the waterway opening of the bridge will be permitted unless approved by the Engineer.

The above are to be considered as **guidelines only**.

In areas where special conditions may be applicable, the Scope of Service and/or the Engineer may specify that criteria different from the above be followed in the design of the facility.

Prior to or in conjunction with the Phase B plan submittal, all drainage calculations, drainage maps, gradient profiles, etc. **MUST** be submitted to the Engineer.

- 29.** All underground facilities shall be located. These underground facilities are to include, but to not be limited to, storage tanks, septic tanks/systems, leach beds, utilities, including service lines (in accordance with Section 153.64 ORC), drain pipes and exposed field tiles shall be located and identified as to the size and type.

Special attention shall be given to any commercial/industrial property having underground storage tanks in current use or which may have previously utilized underground storage tanks, e.g. service stations, print shops, dry cleaners, etc., to identify any potential environmental problems.

- 30.** When the Scope of Service includes cross sections, the sections are to be taken every twenty-five (25) feet. If the Aerial Method is utilized, cross sections are to be field checked every three hundred (300) feet. Critical driveway profiles to be plotted at a scale of 1" = 2' (Horizontal and Vertical). The **location** and **approximate depth** of **underground utilities**, i.e. storm sewers, sanitary sewers, gas lines and water lines, shall also be shown on the cross sections.

- 31.** When the profile of a driveway is adjusted, i.e. raised or lowered, by two (2) feet or more, the Consultant shall prepare a grading plan for the driveway. The grading plan shall indicate the existing and the proposed contours on each side of the driveway in question. The plan shall use a minimum of two (2) foot contours. The grading plan will not become part of the final plan package but will be considered as supplemental information. The Consultant **MUST** submit the grading plan(s) with the initial Phase B review submittal.

NO grading plan will be required for driveways where the adjustment is less than two (2) feet.

- 32.** Right-of-way and Establishment plans and descriptions:

The project will include the researching of all right-of-way information and ownership information from all available sources including but not limited to County road records, Commissioners' journals and records of other County offices to the extent necessary to provide an accurate basis for the right-of-way plans.

Property ownership data for the right-of-way plan development shall be based on a search of County records conducted no more that six (6) months prior to preliminary right-of-way plan submission.

Within fourteen (14) days prior to the submission of the final right-of-way tracings, an in-depth field review of the plan shall be conducted to assure that no topographic features, structures or utilities have been changed or omitted.

In addition, no more than fourteen (14) days prior to the submission of the final right-of-way tracings, the property ownership data shall be checked and verified and copies of the deeds for any new ownership transactions that impact the project shall be submitted to the Engineer. The actual date that the ownership data was checked and verified shall be contained in the submittal letter.

Descriptions shall be prepared on 8 1/2" x 11" letter size sheets, using letter quality printing on the final submissions. Descriptions shall be written so as to conform to the format designated by the County, samples to be furnished by the Engineer upon request. Descriptions shall be written so as to read in a clockwise direction, unless otherwise approved by the Engineer. Parcel designations for parcels to be acquired shall conform to the Engineer's requirements. The descriptions must also be formatted in accordance with the latest Hamilton County Recorder's requirements, e.g. a minimum margin of 1 1/2" at the top of each page and a minimum margin of 1" along the bottom and each side of the page.

The right-of-way plans shall indicate/contain the following information for each parcel: Owner's name, Property Address, Auditor's information, Deed reference, Project Parcel number and Area of tract to be acquired. In cases where an Owner's Summary Sheet is to be prepared, the Auditor's information, Deed reference and Area of tract to be acquired may be shown on the Summary Sheet instead of the plans.

The name(s) of the owner(s) shall be shown on the above items **EXACTLY** as indicated on the pertinent deeds. Unless otherwise approved by the Engineer, each parcel, as indicated by the Auditor's plats or Auditor's tax information, shall be treated as a separate, individual parcel in the preparation of the right-of-way/easement documents and plans.

In cases where the deed distance on a property line is different than the calculated project distance on that line, the right-of-way plans and the descriptions shall indicate/contain both the deed distance and the calculated distance. The area(s) calculated for the proposed right-of-way take or easement shall be based upon the deed distance.

In cases where the affected property is a Registered Land parcel, the right-of-way plans and the descriptions shall indicate/contain both the Registered Land bearings and the project bearings. All plat(s) and description(s) of the parcel(s) **MUST** be prepared in accordance with the Hamilton County Registered Land rules, regulations and requirements, including the preparation of a plat and description(s) for the residue parcel.

Unless **otherwise approved** by the Engineer, the construction plans and the right-of-way plans **MUST** be separate plans. Unless **otherwise approved** by the Engineer, the right-of-way plans shall consist of screened mylars of the construction plans on which the necessary right-of-way and/or easement information has been indicated.

A copy of **ALL** deeds, surveys, record plats and/or other documents that were used to determine the existing right-of-way and/or property lines and were used as the basis for the preparation of the project descriptions **MUST** be furnished to the Engineer.

33. Along with the **FINAL** submission of the project plans and documents, a copy of **ALL** field notes; a listing of point coordinates and point descriptions for **ALL** points on the existing **AND** proposed centerline, baseline and right-of-way line; a closure for **EACH** easement or right-of-way take; and a copy of **ALL** quantity calculations **MUST** be furnished to the Engineer.

34. Calculations for the **Excavation quantity, the Embankment quantity, all the pavement quantities/items and all driveway quantities/items** **MUST** be prepared and submitted to the Engineer.

A calculation for the **area disturbed by construction** **MUST** also be made and submitted to the Engineer for the NOI permit application.

The calculations may be submitted separately on normal sheets and do not have to be made an integral part of the plans. Preliminary quantity calculations shall be submitted with the Phase B plan submittal. The final calculation sheets **MUST** be submitted with the final plan submittals.

35. All construction plans **MUST** be prepared by or under the direct supervision of a Professional Engineer who is registered in the State of Ohio. A Professional Engineer **MUST** stamp and sign the Construction Improvement plans.
36. The drainage calculations **MUST** be prepared by or under the direct supervision of a Professional Engineer who is registered in the State of Ohio. A Professional Engineer **MUST** stamp and sign the final drainage calculations.
37. All surveying and/or fieldwork **MUST** be done by or under the direct supervision of a Professional Surveyor who is registered in the State of Ohio. All right-of-way plans and descriptions, establishment plats and descriptions and registered land plats and descriptions **MUST** be prepared by or under the direct supervision of a Professional Surveyor who is registered in the State of Ohio. A Professional Surveyor who is registered in the State of Ohio **MUST** stamp and sign **ALL** Right-of-way plans and Registered Land plats.
38. All final plans and plats to be ink on mylar/linen or high quality mylar copies. Construction plans and right-of-way plans shall be separate plans. Plan sheets shall be 22" x 34" trimmed size. Computer-aided design and/or drafting systems (CAD) are acceptable.
39. If the plans are prepared with a computer-aided design and/or drafting system (CAD), a computer disk or disks containing all the project information **MUST** be furnished to the Engineer. The electronic files shall be in a format compatible with "Autocad". The project files **MUST** be stored in a manner that will allow the Engineer to recall all line types, wording and layers and make prints of the plans that will be the same as the approved plans received from the Consultant.

A hard copy of all the project information, including the notes, quantities, descriptions, **MUST** be furnished to the Engineer. A computer disk or disks containing all the project information **MUST** also be furnished to the Engineer. Unless otherwise approved by the Engineer, the electronic files shall be in a format compatible with the Engineer's software, i.e. Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Adobe Acrobat.

40. Required Consultant Insurance:

Consultant Insurance Provisions:

It shall be the responsibility of the Consultant to insure the protection of all life and/or property. It shall be the responsibility of the Consultant to protect itself; its employees and/or its agents; the employees and/or agents of any and all sub-consultants; and the County, its officers, employees and/or agents, from any and all liability claims that may arise from operations carried out in the performance of the services involved in the project.

During the term of the Agreement, the Consultant will provide, pay for and maintain in full force and effect the insurance outlined here for coverage at not less than the prescribed minimum limits of liability covering the Consultant's activities.

Certificate of Insurance:

The Consultant shall provide the County with certificates of insurance, completed by a duly authorized representative, evidencing that at least the minimum coverage and limits herein required are in effect.

The certificates of insurance shall contain a standard ACORD Form 25 S provision that the coverage afforded under the policy or policies will not be canceled or terminated without thirty (30) days prior written notice to:

Hamilton County Risk Manager
Room 707, County Administration Building
138 East Court Street
Cincinnati, OH 45202

and

Hamilton County Engineer
Room 700, County Administration Building
138 East Court Street
Cincinnati, OH 45202

The Consultant shall maintain all required coverage without interruption during the entire term of the Agreement.

Failure of the County to demand such a certificate or other evidence of full compliance with these requirements or failure of the County to identify a deficiency from evidence provided will not be construed as a waiver of the Consultant's obligation to maintain such insurance.

The acceptance of delivery by the County of any certificate of insurance evidencing the required coverage and limits does not constitute approval by the County or agreement by the County that the insurance requirements have been met or that the insurance policies shown in the certificates of insurance are in compliance with the requirements.

The certificates of insurance shall be submitted by the Consultant to the Engineer in conjunction with the original documents of the Agreement that have been signed by the Consultant. The further processing of the Agreement by the County will be dependent upon the Consultant submitting and the County approving the necessary certificates of insurance.

If the Consultant fails to maintain the insurance as set forth here, the County will have the right, but not the obligation, to, at the County's option, either purchase said insurance at the Consultant's expense or terminate the Agreement.

Insurer Qualifications:

All insurance must be provided through companies authorized to do business in the State of Ohio and rated at least A-:VII by the A. M. Best Company.

Insurance Primary:

All coverage required of the Consultant will be primary over any insurance or self-insurance program carried by the County, but only to the extent caused wholly or in part by the Consultant's negligent acts, errors or omissions.

No Reduction or Limit of Obligation:

By requiring insurance, the County does not represent that the coverage and limits will necessarily be adequate to protect the Consultant. Insurance effected or procured by the Consultant will not reduce or limit the Consultant's contractual obligation to indemnify and defend the County for claims or suits that result from or are connected with the performance of the services involved in the project.

Insured & Additional Insured:

The policy or policies shall endorse "The Hamilton County Board of County Commissioners, Hamilton County and the Hamilton County Engineer, their officers, employees and agents" as insured.

Where the Scope of Service indicates that additional parties will be involved in the project, i.e. another County, a Township, a City or a Village, the policy or policies shall endorse as additional insured the Board of County Commissioners of the pertinent County, the Board of Trustees of the pertinent Township, the City Council of the pertinent City and/or the Village Council of the pertinent Village, and their respective engineers, officers, employees, agents and volunteers.

A Waiver of Subrogation shall be endorsed on the policy.

If sub-consultants are to be utilized on the Project, the Consultant's policy or policies shall endorse the sub-consultants as additional insured or separate policies, meeting all the requirements herein, shall be furnished by the Consultant or the sub-consultant(s) to the Engineer for each of the sub-consultants.

The form of the additional insured endorsement will be ISO CG 20 33 03 97 (Form B) or its equivalent. The amount of Consultant's insurance will not be reduced by evidence of such other insurance.

Retroactive Date and Extended Reporting Period:

If any insurance herein required is to be issued or renewed on a claims-made form, as opposed to the occurrence form, the retroactive date for coverage will be no later than the commencement date of the project.

Joint Ventures:

If the project is to be completed as a joint venture involving two (2) or more entities, then each independent entity will satisfy the limits and coverage specified herein or the joint venture will be a named insured under each policy specified.

Sub-consultants:

If the Consultant engages sub-consultant(s) for the performance of any portion of the services involved in the project, the Consultant shall be responsible for guaranteeing that the portion of the project that is to be accomplished by the sub-consultant(s) is adequately covered by the insurance as specified herein.

The Consultant will cause each sub-consultant employed by the Consultant to purchase and maintain insurance of the type specified herein. When requested by the County, the Consultant will furnish copies of certificates of insurance evidencing coverage for each sub-consultant.

Cooperation:

The Consultant and the County agree to fully cooperate, participate and comply with all reasonable requirements and recommendations of the Consultant's insurers and insurance brokers issuing or arranging for issuance of policies required here, in all areas of safety, insurance program administration, claim reporting, investigating and audit procedures.

Insurance Limits and Coverage:

To the extent applicable, the amounts and types of insurance will conform to the minimum terms, conditions, and coverage of Insurance Service Office (ISO) policies, forms and endorsements.

If the Consultant or the Consultant's sub-consultant(s) has/have any self-insured retention or deductible under any of the following minimum required coverage, the Consultant and the Consultant's sub-consultant(s) must identify on the certificate of insurance the nature and amount of such self-insured retention or deductible. All self-insured retention or deductible will be the Consultant's or the sub-consultant's responsibility.

Commercial General Liability:

The Consultant will maintain commercial general liability insurance covering all operations by or on behalf of the Consultant on an occurrence basis against claims for personal injury (including bodily injury and death) and property damage (including loss of use). Such insurance will have these limits and coverage:

Minimum limits: \$1,000,000 each occurrence;
 \$2,000,000 general aggregate;
 \$1,000,000 products and completed operations aggregate.

Coverage: 1. 1986 (or later) ISO commercial general liability form (occurrence form);
 2. Products and completed operations coverage maintained for at least 3 years;
 3. Blanket contractual liability (included in 1986 ISO form);
 4. Broad form property damage (included in 1986 ISO form);
 5. Severability of interest (included in 1986 ISO form);
 6. Underground explosion and collapse coverage (included in 1986 ISO form);
 7. Personal injury;
 8. Waiver of subrogation endorsement;
 9. Additional insured endorsement.

Automobile Liability:

The Consultant will maintain business auto liability covering liability arising out of the Consultant's use of any auto (including owned, hired, and non-owned autos).

Minimum limit: \$1,000,000 combined single limit each accident.

Workers' Compensation:

The Consultant will maintain workers' compensation insurance.

Minimum limits: 1. Workers' compensation - statutory limit.

Umbrella/Excess Liability:

The Consultant will maintain umbrella/excess liability insurance on an occurrence basis in excess of the underlying insurance herein described. The amounts of insurance required herein may be satisfied by the Consultant purchasing coverage for the limits specified or by any combination of underlying and umbrella limits so long as the total amount of insurance is not less than the limits specified herein.

Minimum limits: \$2,000,000 combined single limit and aggregate limit.

Professional Liability (Errors & Omissions):

The Consultant will purchase and maintain professional liability insurance.

Minimum limits: \$1,000,000 each claim and annual aggregate.

Coverage: 1. Retroactive date prior to work.

Valuable Papers:

The Consultant will purchase valuable papers and records coverage for plans, specifications, drawings, reports, maps, books, blueprints, and other printed documents in an amount sufficient to cover the cost of recreating or reconstructing valuable papers or records related to this project.

Indemnification of Hamilton County:

The Consultant shall save, protect, defend, indemnify and hold harmless the Board of County Commissioners of Hamilton County, Ohio; the Hamilton County Engineer; and their respective officers, employees, and agents from and against any and all liabilities, penalties, damages, settlements, costs or losses of every kind and character to the extent they arise out of or in connection with the intentional, wrongful, or negligent acts, errors or omissions of the Consultant, its employees officers, agents or sub-consultant(s) in the performance of the services involved in the project.

The Consultant agrees to pay all damages, costs and expenses of the said Board of County Commissioners of Hamilton County, Ohio; the Hamilton County Engineer; and their officers, employees, and agents in defending any action arising out of the aforementioned wrongful, intentional or negligent acts, errors or omissions.

Indemnification of Additional parties:

Where the Scope indicates that additional parties will be involved in the project, i.e. another County, a Township, a City or a Village, the Consultant shall also save, protect, defend, indemnify and hold harmless the Board of County Commissioners of the pertinent County, the Board of Trustees of the pertinent Township, the City Council of the pertinent City and/or the Village Council of the pertinent Village, and their respective engineer(s), officers, employees, and agents, from and against any and all liabilities, penalties, damages, settlements, costs or losses of every kind and character, to the extent they arise out of or in connection with the intentional, wrongful, or negligent acts, errors or omissions of the Consultant, its employees officers, agents or sub-consultant(s), in the performance of the services involved in the project.

The Consultant shall also agree to pay all damages, costs and expenses of the Board of County Commissioners of the pertinent County, the Board of Trustees of the pertinent Township, the City Council of the pertinent City and/or the Village Council of the pertinent Village, and their engineer(s), officers, employees, and agents in defending any action arising out of the aforementioned wrongful, intentional or negligent acts, errors or omissions.

The Consultant **MUST** submit **ONE CERTIFIED, COMPLETE** copy of those portions of the insurance policy in which Hamilton County, the Township and/or any other party to the Agreement is named as an additional insured, i.e. the General Liability Policy or the Automobile Policy. The Consultant **MUST** also submit **TWO CERTIFIED CERTIFICATES** indicating the insurance coverage for all other portions of the insurance policy. The Consultant **MUST** submit these documents to the Engineer when returning the Agreement for the project.

In the event of the Consultant, the County, the Township and/or any other party to this Agreement is named in litigation related to the **PROJECT**, the Consultant also agrees to provide to the Engineer, within ten (10) business days of the Consultant receiving the lawsuit, one certified copy of the **ENTIRE** insurance policy or policies and associated endorsements.

ADDITIONAL INFORMATION

POOLE ROAD SIDEWALKS

501052

- 1) The project is to involve the design of a sidewalk, four (4) feet in width, along Poole Road from the Colerain Elementary/Middle School to the Colerain High School.
- 2) The Consultant shall prepare the plans in stages as follows:

- a) The Consultant shall prepare a feasibility study. The feasibility study shall address issues such as on which side of the road the sidewalk should be constructed, based upon anticipated pedestrian generation points, design issues/difficulties along each alignment, possible environmental impacts, available right-of-way, etc. and the location of the sidewalk within the right-of-way, based upon design considerations, utility locations, etc. The study shall contain all the information necessary for the Township to determine the most practical location for the sidewalk.

After the completion of the feasibility study, the Township will select an alignment and location for the sidewalk and will authorize the Consultant to proceed with the Phase A/Stage 1 plan preparation.

- b) As part of the Phase A/LGT plan preparation, the Consultant **MUST** make a preliminary determination of the possible impacts to the existing drainage facilities and the modifications that may be required to address these impacts; make a preliminary determination of the possible impacts to the existing driveways along the alignment; determine the right-of-way and make a preliminary determination of the possible additional right-of-way and/or easements that may be required to undertake the project. The Consultant shall also prepare an estimated construction cost and an estimate for the cost of any right-of-way and/or easements that are required.

After receiving this information, the Township will schedule the public meeting.

After reviewing all information and public input, the Township will decide whether or not to proceed with the project. If the decision is made to proceed, the Township will authorize the Consultant to proceed with the preparation of the detailed plans for the sidewalk.

- 3) The areas of driveways affected by construction of the sidewalk are to be replaced and/or modified in kind as necessary.
- 4) The project shall also include the installation of warning signs and/or flashers at any location(s) that the pedestrians are directed to cross the public road to reach the sidewalk on the other side, i.e. at crosswalk locations.
- 5) The Engineer **MUST** approve the proposed location for crosswalks.
- 6) The Consultant **MUST** be pre-qualified by ODOT to undertake the design work involved in the project.

- 7) The source of funds for the construction of the improvements is the State of Ohio. The Consultant must prepare all plans and make all plan submittals in strict accordance with ODOT L&D requirements or other ODOT regulations. At this time, it is anticipated that this project will be a local-let; therefore, ODOT has determined that only a Stage 2 review will be required.
- 8) The Consultant is to prepare the plans in strict accordance with ODOT standards and the Consultant **MUST** prepare all request(s) to ODOT for design exceptions.
- 9) The Consultant will be required to complete all the environmental work required for the project as noted in the attached ODOT "LPA Scope of Services Form".
- 10) The Consultant will be required to complete the necessary ODOT project programming forms. At this time, ODOT has the following schedule for the project:

Stage 1 submittal	12 April 2011
R/W submittal	11 November 2011
Stage 2 submittal	11 November 2011
Stage 3 submittal	14 March 2013
PS&E submittal	13 September 2013