

HAMILTON COUNTY ENGINEER'S

REVISED SCOPE OF SERVICE

1. PROJECT IDENTIFICATION:

Road Name: LOVELAND (LOVELAND MADEIRA) ROAD Road No: 299

Project No: 500004

2. PROJECT INFORMATION:

Limits: Improvement of the Loveland (Loveland Madeira) Road and SR 126 intersection.

Length: See Additional Information Sheet.

3. AGREEMENT BETWEEN CONSULTANT AND:

State _____ County XX Township _____

City _____ Other _____

4. METHOD OF FINANCING:

Engineering: County road and bridge funds.

Construction: Undetermined at this time.

5. WORK PHASES INCLUDED IN AGREEMENT:

PHASE A Plan Submission: Line, grade and typical sections on Base Sheets to be used in final plans.

Critical cross sections are to be plotted. Potential design problem areas are to be identified.

PHASE B Plan Submission: To conform with Phase A recommendations. Final review submission is to

include Special General Notes and Specifications and quantities.

6. PLAN SCALES:

PLAN: 1" = 20' Min.

PROFILE: Hor. 1" = 20' Min. Vert. 1" = 5' Min.

CROSS SECTIONS: Hor. 1" = 5' Min. Vert. 1" = 5' Min.

Remarks: _____

7. JOURNALIZED SPEED LIMIT:

Road: Loveland Road - 45 mph; SR 126 - 45 mph

8. TYPICAL SECTIONS/NUMBER OF LANES:

The Project involves widening of the existing pavement so as to provide a dedicated left-turn lane on ALL four legs of the intersection. In addition, the north leg of Loveland Road will be widened to a total of four lanes in width so as to provide a dedicated right-turn lane, i.e. a lane for southbound traffic to turn west on SR 126, headed towards the City of Montgomery. See Additional Information Sheet.

Salvage Existing Pavement: XX

Curbs: _____ Report to Recommend: XX

Type: Type 6, concrete vertical curbs are to be used if curbs are recommended by Consultant.

Shoulders/Berms: _____ Report to Recommend: _____

Type: _____

Safety Grading Criteria: _____ Partial: _____

Guardrail: _____ Type: _____

Median: _____

Clear Zone Grading: _____

Fencing: _____

Lighting: _____

Remarks: Unless otherwise directed by the Engineer, the left-turn lanes shall have a minimum of eleven (11) feet. The width of the traveled lanes will be determined by the edge treatment recommended by the Consultant. If curbs are not used, the traveled lane will have a minimum width of twelve (12) feet with an adjacent, paved berm with a minimum width of three (3) feet. If a rolled curb and gutter section is used, the lane width adjacent to the section will have a minimum width of eleven (11) feet; if a vertical curb section is used, the lane width adjacent to the section will have minimum width of twelve (12) feet.

The Consultant is to determine and recommend locations for guardrail, if warranted based upon County and/or State criteria.

9. ALIGNMENT:

See Additional Information Sheet.

10. PROFILE:

Existing profile is to be followed as much as possible. Slight adjustments in profile may be required to establish/maintain drainage patterns.

11. SIGNAGE:

Phase A: _____

Phase B: XX

12. SIGNALS:

Existing Signals:

To be Modified: _____ To be Replaced: XX

Proposed (New) Signals:

Locations: _____

Phase A to recommend locations: _____

Signal Warrants: _____

Phase A: _____

Phase B: _____

Remarks: Unless otherwise specified by the Engineer, ALL traffic signal improvements shall utilize Light Emitting Diode (LED) signal heads and signal lamp units.

13. STRIPING:

Phase A: _____

Phase B: XX

Type: Thermoplastic material to be used from the beginning of the turn-lanes to the intersection; paint to be used beyond these limits.

14. DELINEATION:

Delineators: _____

RPMs: _____

15. DRAINAGE:

Drainage Criteria: State XX County XX Public Works _____
Other _____

Phase A Preliminary Plan: XX

Existing: Surface XX Closed _____

Proposed: Surface _____ Closed XX

Special Flood Hazard Area (SFHA): _____

Storm Water Pollution Prevention Plan: _____

Flood Plain Study Required: _____

Channel Change Study Required: _____

Remarks: As may be applicable and especially for a project involving large areas of new pavement, i.e. major pavement widening, construction of new roads, realignment of an existing road, prior to the submittal of Phase A plans, the Consultant MUST contact those agencies having jurisdiction over storm water and storm water facilities, e.g. Metropolitan Sewer District (MSD), Hamilton County Public Works or state/federal agencies, to determine if any special considerations or restrictions, e.g. detention or flood mitigation, will have to be met during the design of the drainage improvements. The Consultant MUST report these special design considerations to the Engineer as a part of the Phase A submittal.

16. BRIDGE CROSSINGS:

Number of Bridges: None

Cross Roads: _____

Streams: _____

Supplemental Site Plan for Streams: _____

Culverts: Two culverts could be impacted by the project. One on SR 126 west of Loveland Road; one on Loveland Road south of SR 126.

Alternates Required: _____

Railroads: _____

Railroad Location Plan: _____

Railroad Site Plan: _____

Pedestrian: _____

Mass Transit: _____

Other: _____

17. MISCELLANEOUS DESIGN CONSIDERATIONS:

Sidewalks: _____

Bikeways: _____

Railroads: _____

Mass Transit: _____

Service Roads: _____

18. RETAINING WALLS:

Number of Retaining Walls: None foreseen at this time.

Type(s) of Retaining Walls: _____

Phase A: _____ Wall Justification: _____

Phase B: _____

Remarks: 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. The plan view(s) or a detail for the wall **MUST** indicate the length of any tie-back systems that are required for the construction of the wall. **ALL** pre-manufactured walls, i.e. Keystone walls, **MUST** be designed in strict accordance with the Manufacturer's requirements.

19. MAINTENANCE OF TRAFFIC:

Maintenance of Pedestrian Traffic: _____

Maintenance of Railroad Traffic: _____

Maintenance of Vehicular Traffic: XX

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

Temporary Road Plans & Notes by: County _____ Consultant _____

Detour Plan Prepared by: County _____ Consultant _____

Remarks: At this time, it is presumed that construction is to be completed under traffic. To the satisfaction of and subject to the Engineer's review and approval, 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.

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.

20. UTILITIES:

Water	(XX)	Sanitary	(XX)
Electric	(XX)	Gas	(XX)
Telephone	(XX)	Cable TV	(XX)
Public Works	(XX)		

Others: _____

ALL Utility Companies shall be contacted and **ALL** existing utilities, including house connections, shall be indicated on the plans as required by Section 153.64 O.R.C. (H.B.538). **ALL** utilities shall be furnished with a copy of the preliminary plans for preliminary coordination. A copy of the transmittal letter to each utility company and the response from the utility company shall be submitted to the County Engineer.

21. ESTIMATED QUANTITIES:

Phase A: _____

Phase B: XX

Quantity Splits: _____

22. CONSTRUCTION COST ESTIMATE:

Submit with Letter of Interest: XX

Phase A: _____

Phase B: _____

25. TRAFFIC DATA:

State _____ County _____ Consultant XX _____

Remarks: Existing counts to be furnished by the County. Consultant to determine if adjustments to these counts may be warranted. The Traffic Department and ODOT must approve all traffic data prior to use in design.

26. GEOTECHNICAL/SUBSURFACE INVESTIGATION:

State _____ County XX _____ Consultant _____
Other _____

Remarks: 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 will be responsible for establishing the required field control and for field locating the boring locations.

27. PRIOR STUDIES:

None. For informational purposes only, a preliminary plan, based upon CAGIS information, has been prepared by the Engineer and is attached.

28. PUBLIC HEARINGS/INFORMATIONAL MEETINGS:

Public information meeting(s) may be scheduled.

Consultant's Responsibility: Prepare the necessary exhibits and attend the meeting(s) if scheduled.

Exhibits: Required Exhibits will show the proposed location of improvements, the proposed profile and critical and/or typical cross-sections and the preliminary Right-of-way.

ADDITIONAL INFORMATION SHEET

LOVELAND (LOVELAND MADEIRA) ROAD AND SR 126

INTERSECTION IMPROVEMENT

- 1) The County intends to construct this project under a permit process through ODOT.

As may be required, the Consultant will be responsible for the preparation of all materials and auxiliary information needed for the review and approval by ODOT, i.e. traffic signal warrants, etc.

The Consultant **MUST** submit the plans to ODOT for review and tentative approval **PRIOR** to submitting final plans to the County. A copy of ODOT's approval letter **MUST** be submitted with the final plan submission. The Consultant will **NOT** be responsible for obtaining a permit from ODOT for the construction of the improvements. The County will obtain this permit at the time the construction is scheduled.

- 2) On all legs of the intersection, the pavement is to be widened so as to improve the alignment of the lanes through the intersection. The alignment of the lanes will be designed, as much as practical and possible, in conformance with the applicable ODOT standards and/or L&D criteria.
- 3) The pavement section for the widening shall be two (2), five (5) inch courses of Bituminous Aggregate Base; one (1), one and one-half (1 1/2) inch, Asphalt Concrete Intermediate Course, Type 1, and one (1), one and one-half (1 1/2) inch Asphalt Concrete Surface Course, Type 1. The improvement shall also include the resurfacing of the existing pavement with the surface course. The Consultant shall determine if the resurfacing of the existing pavement will require the grinding of the pavement to achieve required elevations.
- 4) The Consultant will be responsible for obtaining certified traffic counts, turning movement counts, etc. The Consultant will be responsible for using these counts to determine the storage length of the turn lanes per L&D requirements and the proposed timing of the signal. The Consultant will determine the final limits of the proposed improvements based upon the requirements of the updated traffic volumes, i.e. the length of the required turning lanes. As directed by the Engineer, the length of the turn-lane on the east leg of SR 126 and the termini of the improvements may be adjusted so as to avoid any impacts on the existing railroad overpass, i.e. it is the intent of the project to meet the existing pavement width at the railroad overpass.
- 5) The existing signal at the intersection is under the jurisdiction of ODOT-District 8. The Project will include the total replacement of the existing signal equipment, i.e. the signal heads and controller, and the replacement and/or modification of other related existing equipment, i.e. poles, span wires, as may be required. The Consultant shall work with the various departments of ODOT and/or Hamilton County to determine what modifications will be required to the signal in order to accommodate the improvements. These modifications may include, but not be limited to, providing a left-turn arrow for any leg of the intersection; providing a right-turn arrow for the north leg of Loveland Road, turning onto westbound SR 126; revising of the signal timing, sequence or phasing, etc. All signal work shall be in conformance with the applicable rules and regulations of ODOT.

The Consultant shall work with ODOT to determine the signal head configurations. The Consultant shall also work with ODOT to determine if a "Right Turn on Red" would be permitted or restricted on any leg of the intersection.