

August 24, 2021

Mr. David De Angelis
Village Administrator
Village of Elm Grove
13600 Juneau Boulevard
Elm Grove, WI 53122-0906

Re: Pedestrian Pathways
Conceptual Designs and Preliminary Cost Estimates

Dear Mr. De Angelis:

As requested, we have prepared conceptual designs and preliminary cost estimates for the following future pedestrian pathways in the Village of Elm Grove:

1. Gebhardt Road (Pilgrim Road to Highland Drive).
2. Highland Drive - North (North Avenue to Gebhardt Road).
3. Highland Drive - South (Gebhardt Road to Watertown Plank Road).
4. Juneau Boulevard (Village Park to Watertown Plank Road).
5. Hollyhock Lane (North Avenue to Underwood Parkway).
6. Gremoor Drive (Legion Drive to 124th Street).

When preparing the concept designs and preliminary cost estimates, we considered grading needs based on existing topography, private property encroachments into public rights-of-ways, potential easement requirements, existing drainage patterns and proposed drainage improvements, impacts to existing village utilities, impacts to existing overhead power lines and possible impacts to environmental resources. Copies of the conceptual design exhibits and preliminary cost estimates are attached to this letter or are otherwise made available to you. The preliminary cost estimate includes a summary sheet to easily compare the lengths and costs for all six pathway segments.

General assumptions made when preparing the conceptual designs and preliminary cost estimates for all of the pathway segments include the following:

- A threatened and endangered species review will need to be completed at the beginning of each detailed design phase. Impacts to any threatened and endangered species will need to be mitigated.
- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website was reviewed. The mapping shows at least one location where wetlands exist along Highland Drive at the creek crossing north of the railroad tracks. The mapping also shows several other locations where wetland indicators exist.
 - A wetland investigation and delineation of any identified wetlands will need to be completed at the beginning of each detailed design phase. Specific locations to be investigated are listed below for each pathway segment. We recommend that delineated wetlands in conflict with the pathways be reviewed to determine if they will be regulated or exempt.
 - Impacts to regulated wetlands will need to be minimized and a permit for any final impacts will need to be obtained.

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- Pedestrian pathway will be constructed with asphaltic concrete.
- Pedestrian pathways will be 6 feet wide.
- Existing concrete driveway approaches will be replaced with asphalt per Village requirements.
- Impacts to existing trees in the public right-of-way as identified in the Village's GIS were minimized as much as possible.
- Small trees and/or undesirable species trees in conflict with the paths will need to be removed.
- Tree trimming and tree removals are included in the preliminary cost estimates, but may be performed by Village Staff.
- Land acquisitions are not anticipated unless specifically noted. Minor temporary grading easements not shown on the concept plans may be required and will need to be verified during the detail design phase.
- New crosswalk and stop bar pavement markings will be required at all road crossings.

Specific assumptions used for the concept design and preliminary cost estimate for the pathway along Gebhardt Road (Pilgrim Parkway to Highland Drive):

- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website shows wetland indicators do not exist along the corridor.
- The pathway is located on south side of road where there is more room between the street and the right-of-way line.
- The pathway is located behind the ditch to avoid reconstructing the deep ditch.
- The pathway will be constructed concurrently with improvements to the roadway and ditches. Costs shown for the pathway do not include the improvements to the roadway or the ditch between the pathway and the road.
 - The east end of Gehardt Road is planned to be relocated farther south from its existing alignment to match the location of Hillside Road on the east leg of the intersection with Highland Drive.
- All privately owned landscaping between path and roadway will be removed.

Specific assumptions used for the concept design and preliminary cost estimate for the pathway along Highland Drive - North (North Avenue to Gebhardt Road):

- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website shows a wetland exists at the creek crossing north of the railroad tracks. No other wetland indicators exist along the corridor.
- The pathway is located on west side of road to minimize utility pole relocations.
- The existing culvert crossing Highland Drive at the creek north of the railroad tracks will need to be extended to accommodate the pathway. The culvert extension will require wetland and waterway impact permits from DNR.
- The pathway will be located adjacent to road at railroad crossing to minimize potential for reconfiguration of railroad crossing signals.
- The pathway will need to match North Avenue improvements currently under construction.

Specific assumptions used for the concept design and preliminary cost estimate for the pathway along Highland Drive - South (Gebhardt Road to Watertown Plank Road):

- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website shows wetland indicators do not exist along the corridor.
- The pathway is located on west side of road to minimize utility pole relocations and regrading of deep ditches.

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- Existing driveway approaches have a steep slope that will require more quantity of replacement in order to make the path meet ADA requirements.
- A retaining wall is shown between Victoria Cir S. and Victoria Cir N. to minimize potential for utility pole relocations.

Specific assumptions used for the concept design and preliminary cost estimate for the pathway along Juneau Boulevard (Village Hall Entrance to Watertown Plank Road):

- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website shows wetland indicators exist at the following location along the corridor:
 - The entire segment between the Village Hall entrance to Legion Drive.
- A flood storage area exists on both sides of Underwood Creek. Grading of the pathway in these areas will need to be carefully designed to avoid filling the storage areas.
- The pathway is located on the north side of the road to avoid conflicts with the existing overhead power lines.
- The pathway will match into the existing path that leads to Village Hall.
- The pathway will be adjacent to the pavement across the Underwood Creek bridge.
- The exact location of the pathway between the Village Hall entrance and Legion Drive is flexible because the Village owns the land.
- Scope of ditch grading and culvert replacements is limited between Legion and Church Street because the existing ditch is already enclosed.
- The public right-of-way along the St. Mary's Church frontage is assumed to be 66 feet wide. This assumption will need to be verified in the final design phase.
- Utility poles in front of St. Mary's Church may need to be moved to accommodate path/grading.
- The existing parking lane in front of St. Mary's Church will need to be removed to accommodate the pathway and a narrow roadway shoulder.
- The new pathway will connect to the existing pathway at the intersection of Juneau Boulevard and Watertown Plank Road.

Specific assumptions used for the concept design and preliminary cost estimate for the pathway along Hollyhock Lane (North Avenue to Underwood River Parkway):

- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website shows wetland indicators exist at the following locations along the corridor:
 - One location between North Avenue and Lee Court.
 - South side of the intersection with Wrayburn Road.
 - South of the intersection with Dunwoody Drive.
- The pathway is located on west side of road to avoid regrading the deep ditch on the east side of the road.
- Most of the ditches need to be regraded for proper drainage.
- Most of the driveway culverts need to be replaced to match new ditch grades.
- Existing ditch between Dunwoody Drive and Underwood River Parkway needs to be enclosed due to flat slope and narrow ROW space. A minor swale will need to remain in place to direct localized drainage to inlets along the new storm sewer.
- The pathway will match into the existing pathway on south side of Underwood River Parkway.

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Specific assumptions used for the concept design and preliminary cost estimate for the pathway along Gremoor Drive (Hollyhock Lane to 124th Street):

- Mapping from the Wisconsin Department of Natural Resources (DNR) Water Surface Data Viewer website shows wetland indicators exist at the following locations along the corridor:
 - Two locations between Notre Dame Boulevard and Fairhaven Boulevard.
 - One location between Fairhaven Boulevard and Fairfax Drive.
- The pathway is located on the north side of road to minimize impacts to deeper ditches, reduce grading and minimize tree removals.
- The existing deep ditch between Hollyhock Lane and Notre Dame Boulevard will be enclosed to avoid having to move the path onto easements on private property. A minor swale will need to remain in place to direct localized drainage to inlets along the new storm sewer
- Most of the ditches need to be regraded for proper drainage.
- Most of the driveway culverts need to be replaced to match new ditch grades.
- The pathway will be located next to the ROW line to make room for the ditch grading.
- The pathway is shown to match into the west edge of 124th Street. However, it is unknown at this time if the pathway will connect to or cross 124th Street.

Please contact me if you have any questions or comments. Thank you for allowing us to be of service to the Village of Elm Grove.

Respectfully,

RUEKERT & MIELKE, INC.



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ADP:adp

Enclosures

cc: Richard Paul, Jr., Village of Elm Grove
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