CONSTRUCTION and MITIGATION PLAN

Rockdale-West Middleton Project – Segment O

American Transmission Company, LLC (ATC) was granted a Ch. 30.025 utility permit by the Wisconsin Department of Natural Resources (WDNR) for work in and adjacent to wetlands and waterways for the Rockdale-West Middleton project (Permit #IP-SC-2009-13-Nxxxxx). This permit requires that ATC prepare a Construction and Mitigation Plan (CMP) for work in wetlands and waterways for WDNR approval prior to beginning work in these features (conditions #8 and 10). ATC has prepared this CMP for Segment O. This CMP outlines various construction methods and procedures which will be followed to minimize impacts to wetlands and waterways. The components of this CMP follow those outlined in General Condition #10 of the WDNR utility permit. In addition to Segment O, separate CMPs for Segments A, B, H, and the Yahara River wetlands have been submitted for WDNR approval.

A. Environmental Access Plan

An Environmental Access Plan (EAP) for Segment O is provided in Segment O, Appendix A. This EAP shows the location of wetlands and waterways, structures, temporary clear span bridge (TCSB) crossings, construction access and other pertinent information. The EAP also shows various locations where ATC will install guard rail within WisDOT right-of-way. No impacts to wetlands or waterways are anticipated based on these locations. Minor filling, grading and/or other land-disturbing activity may be required at each proposed guard rail location and will be addressed in the erosion control plan.

The wetland boundaries identified in the Joint Application along much of Segment O were based on off-site evaluation utilizing existing resources such as recent aerial photography, soil survey information, Wisconsin Wetland Inventory and the WDNR 24K hydrology layer. For preparation of this CMP, previously identified wetlands and areas of mapped hydric soils were recently evaluated in the field to confirm or refine the wetland boundaries identified in the Joint Application. Wetland boundaries within the ROW, as identified on the EAP, are the same boundaries included in the Joint Application (Wetland Delineation Report dated 9/26/07, Natural Resources Consulting) which were approved by the US Army Corps of Engineers, with the following exceptions (Data sheets and maps showing data point locations which support these wetland boundary changes are provided in Appendix E):

- The boundary of Wetland O(120)-W1 (EAP page O-1) was narrowed by about 100 feet within the proposed ROW based on a recent review of site conditions.
- Wetland O(30)-W3 was extended about 30 feet to the north to include an area of hydrophytes extending closer to an adjacent parking lot (EAP page O-5). This expansion is likely attributable to increased storm water runoff associated with the recent development in this area.
- Wetlands O(0A)-W2 and O(0A)-W3 were added within the Beltline Highway / USH 14 interchange (EAP page O-5). These areas were possibly created due to increased storm water runoff from recent adjacent developments.

- The boundary of wetland O(0A)-W4 (EAP page O-6), which occurs in the Greenway Blvd / Beltline Highway interchange, was extended to the east to include an area dominated primarily by reed canary grass extending from a culvert outlet.

- In the Joint Application, Wetland O(30)-W4 (shown on EAP page O-7 and O-8), which is primarily a drainage ditch, was shown to extend from O(30)-R2 south to Old Sauk Road. Based on a recent site visit, this drainage feature was subsequently split into 2 separate wetlands (O(30)-W4 and O(30)-W4a) because the mid-portion of this feature was culverted underground to accommodate parking lot expansion. In addition, the northern extent of wetland O(30)-W4 was expanded to include a narrow area of reed canary grass adjacent to O(30)-R2.

- An area was considered to be wetland in the Joint Application (Wetland O30-W5); however during a recent visit, it was determined to be upland. This area occurs between Structures 121965 and 121966 (refer to EAP page O-11).

- The boundary of Wetland O(30)-W6 (EAP pages O-14 and O-15) was adjusted in three ways: to add a drainage ditch along the Beltline Highway in the eastern portion of this feature (near Structure 121982), to show the 2 existing culvert crossings within this feature, and to refine the wetland boundary near the southern extent of the ROW.

Wetlands outside of the transmission line ROW were evaluated primarily based on Wisconsin Wetland Inventory data and aerial photo review.

Three structures (#121930 and 121931 on EAP page O-5, and 121982 on EAP page O-15) will be located in wetlands along Segment O which is less than the approved amount in the Utility Permit (9 structures were approved). This reduction is due to re-spanning of poles during final design.

Up to 2 TCSBs will be required along Segment O (Segment O, Appendix A), which is two fewer than what was approved in the Utility Permit for this segment.

Approximately 0.16 acres of forested wetland clearing will be required along Segment O. The amount of forested wetland clearing along this segment is less than identified in the Joint Application. Aerial photo interpretation was used to conservatively estimate the amount of forested wetland for the Joint Application. Based on field verification, some of the area previously identified as forested is actually shrub-carr and therefore not included in the 0.16 acres.

ATC's construction access through wetlands along Segment O (as shown on the EAP) is similar to what was presented on the *Environmental Features and Access Plan* in the Joint Application, and is shown on the EAP.

The configuration of some of the wetlands along this segment does not allow ATC to feasibly reduce the extent of construction access in these wetlands.

Construction matting may be used to facilitate access in wetlands. The table below identifies a conservative estimate of matting quantities in each wetland.

Wetland Identifier	Approximate square footage of mats
O(120)-W1	3,600
O(120)-W2	2,800
O(120)-W3	21,400
O(30)-W1	17,600
O(30)-W2	17,000
O(30)-W3	23,200
O(0A)-W2	1,000
O(0A)-W3	1,200
O(30)-W8	30,400
O(0A)-W4	2,600
O(30)-W4	3,600
O(30)-W4a	4,200
O(0A)-W1	4,000
O(30)-W6	16,400

Additional measures to minimize wetland and waterway impacts along Segment O are outlined in other sections of this CMP (e.g. *Invasive Species Management Plan*, *Final Wetland Restoration and Revegetation Plan*, etc.) and will be provided in the Erosion Control Plan for this segment.

B. Photographs of Pre-Construction Site Conditions (Wetlands and Waterways)

Pre-construction photographs of wetlands along the Segment O ROW, and waterways where TCSBs are required are provided in Segment O, Appendix B.

C. Waterway Crossings

Two TCSB crossings will be required along Segment O at locations shown on the EAP. Final plan and cross-sectional view drawings for each TCSB crossing are provided in Segment O, Appendix C. In addition, General Condition #60 of the Utility Permit indicates the TCSBs should incorporate measures to

minimize the amount of soil entering the waterway. A drawing showing typical debris containment to be used for all TCSBs is provided in Segment O, Appendix C.

Clearance Waiver

General Condition #56 of the WDNR Utility Permit indicates: *All bridges across navigable waterways shall either maintain a clearance of not less than 5 feet, or comply with requirements of s. NR 320.04, Wis. Admin. Code*. Wis. Admin. Code Chapter NR 320.04(3) indicates the department may allow less than 5 feet of navigation clearance when all of the following apply:

- The waterway is known to have little or no navigation or snowmobile use;
- The waterway is not anticipated to have navigational use by other than lightweight craft;
- The owner provides a portage over or around the bridge or culvert; and
- The reduced clearance would not be detrimental to the public interest.

ATC would allow a portage over or around a bridge if necessary; however given the stream dimensions and location of these two crossings, it is unlikely these waterways are utilized by watercraft. ATC believes the other conditions specified in Wis. Admin. Code Chapter NR 320.04(3) are met at each waterway crossing and therefore, a five-foot clearance is not required at any of the two TCSB locations.

Fishery Waiver

General Condition #54 of the WDNR utility permit indicates that: *All bridges must be placed and removed in compliance with timing restrictions, unless authorized by the local DNR fisheries biologist….. On all waterways that are not trout streams, placement and removal of the bridges is prohibited March 15 through May 15, annually*. Neither of the bridges along Segment O will be placed over trout streams. ATC requested and received a waiver of this timing restriction from Kurt Welke, DNR Fisheries Manager for each of these two TCSBs (Segment O, Appendix D).

D. Endangered Resources Plan

ATC evaluated the potential for rare species to be present along Segment O as part of the Joint Application. This evaluation included review of WDNR Natural Heritage Inventory (NHI) data, in-field habitat characterizations and/or field surveys in representative areas. Extensive coordination with the WNDR was conducted throughout this period. Based on this evaluation, vegetation clearing at the Cardinal substation property is restricted during the nesting season (mid-April through August). There are no other rare species restrictions on Segment O. If it is subsequently determined that a rare species is present along this segment, ATC will undertake appropriate protection measures in coordination with the WDNR and/or USFWS.

E. Invasive Species Management Plan

Segment O is located entirely along the Beltline Highway and Highway 14 corridors. Along the majority of this segment, the corridor is developed with few natural communities present. Development is less

common at the west end of Highway 14 and land cover along the ROW is a mix of woodlands, upland fields, wetlands and agricultural land. Dominant vegetation within the Segment O ROW was documented during field evaluations in 2006, 2010 and 2011.

All vegetative communities along this segment are degraded to some degree by fragmentation from the highway and other developments, and invasive species are commonly present. Common buckthorn (*Rhamnus cathartica*), honeysuckle (*Lonicera* spp.), wild parsnip (*Pastinaca sativa*), garlic mustard (*Alliaria petiolata*) and Canada thistle (*Cirsium arvense*) (all of which are "Restricted" species as defined in *Wis. Admin Code* Ch. NR 40) were observed in various wetlands along this segment. Reed canary grass (*Phalaris arundinacea*) is also dominant in most of the wetlands and reed grass (*Phragmites australis*) (a "Restricted" species) is present in wetland O(30)-W3 (EAP page O-5). Several of the previously mentioned invasive species, and other weedy herbaceous species, are common in upland areas along the corridor. This includes garlic mustard, which was commonly observed in upland wooded areas, and Japanese knotweed (*Polygonum cuspidatum*), (a "Restricted" species), which is present in two localized areas along the segment (EAP pages O-6 and O-15).

The following location-specific and general BMPs will be utilized during construction along Segment O to comply with *Wis. Admin code* Ch. NR 40 and ATC's Summary of Environmental Commitments for the Rockdale to West Middleton Project. The intent of these practices is to limit the spread of invasive species; however, since invasive species are common throughout the ROW the primary focus will be to limit the spread outside of the project ROW, with a location-specific focus on limiting the spread of *Phragmites* and Japanese knotweed since it is not as prevalent within the ROW.

Location-Specific BMP's

As discussed, *Phragmites* is present within wetland O(30)-W3 (EAP page O-5) and Japanese knotweed occurs in two localized upland areas (EAP pages O-6 and O-15). These areas will be marked in the field so that vehicles traveling the ROW can avoid contact, if possible. If these areas cannot be avoided, all vehicles will be inspected prior to leaving the areas and cleaned using brushes or compressed air. If mats are used to provide a barrier, vehicles travelling completely on the mats will not require inspection or cleaning. When mats are removed, they will be inspected and soil and plant parts will be removed.

General BMP's

- Construction equipment and material
    - Minimize soil disturbance and utilize roads or established equipment access paths to the extent practicable.
- Managing soil and material
    - Avoid movement of invasive material to non-infested areas. If possible, invasive material should be left within the ROW. For example, when clearing areas containing

honeysuckle or buckthorn shrubs, cut material should be left in generally the same place and not spread off-site or to uninfested areas.
    - If infested soil or vegetative material must be transported from the ROW, transport to a designated area for appropriate disposal. Prior to transporting material, manage the load to limit potential spread to uninfested areas.
    - Manage stockpiles onsite to prevent the spread to adjacent areas.

- Restoration and landscaping

    - Select appropriate species for restoration and landscaping activities. Invasive species should not be used for revegetation purposes.
    - Revegetate disturbed soils as soon as possible to minimize invasive species establishment.
    - In areas where topsoil has been segregated and stored on-site (i.e. wetlands), the segregated topsoil should be re-spread around the installed pole foundation, with minimal mounding. Note that an approximately 6-inch height of mounding is needed for caisson foundations, and 12 inches for direct embed, to prevent a depression subsequent to soil settling.

F. Wetland Restoration and Revegetation Plan

A general summary of wetland community characteristics within this segment is presented in Segment O, Appendix E. This characterization is based on field observations from 2006, 2010 and 2011. In general, the majority of wetlands along this segment are degraded wet meadows dominated primarily by reed canary grass. Several wetlands have a shallow marsh component with cattail (*Typha* spp.) and river bulrush (*Bolboschoenus fluviatilis*) common. In addition, a portion of wetland O(120)-W3 is forested with quaking aspen (*Populus tremuloides*) commonly present in the overstory.

The following provides guidelines for wetland restoration and revegetation for Segment O:

<u>Restoration / Revegetation</u>

- Restoration within wetland areas will include removal of all construction-related materials, and the restoration of significant ruts and depressions.
- In wetland areas where disturbance is minimal, access paths and structure locations will generally be allowed to regenerate naturally. These locations will be monitored to ensure regeneration is occurring.
- Segregated topsoil in wetlands should be re-spread around the installed pole foundation.
- The right of way should be restored to pre-existing topography as much as practicable.
- If significant rutting occurs in wetlands, those areas will be repaired using hand tools, back dragging or other appropriate means to restore topography.

- If necessary, disturbed areas within wetlands may be seeded with an annual rye grass or common oats to provide temporary cover while the vegetation regenerates.
- If additional seeding is necessary (beyond the use of temporary cover seeding), only seed mixes approved by the ATC Environmental Monitor shall be used (refer to Segment O, Appendix F for a typical wetland seed mix used by ATC) and the seeding will be consistent with the following standards:

    - Seed mixtures shall be selected based on soil and site conditions and intended final use, with approval by the ATC Environmental Monitor;
    - Seed mixes will conform to Wisconsin Statutes Chapter 94 and the Wisconsin Administration Code Chapter ATCP 20;
    - Seed will be uniformly applied and incorporated into the top one inch of soil;
    - No invasive or exotic species shall be included in the seed mixture; and
    - No mulch will be applied in wetlands or on the banks of waterways.

Other /Miscellaneous

- Fertilizers will not be used within 100 feet of wetlands, streams and rivers.
- Cover such as erosion blankets or other weed-free devices may be applied after seeding and final restoration has occurred in wetland areas disturbed by construction activities. All erosion control measures taken will conform to WDNR Technical Standards.
- Soil erosion and sedimentation control measures installed will be maintained until the disturbed areas are permanently stabilized.

G. Wooded Wetland Management Plan

Wetland O(120)-W3 is the only wooded wetland that will be impacted by construction along Segment O. In general, the entire ROW width will be cleared for safe construction equipment access in wooded areas; however, adjacent to waterways a 50-foot wide low-growth vegetative buffer will be allowed to remain, where it currently exists. Mowing will be restricted in this buffer, which will minimize the impacts to these wooded wetlands.

Large tree trunks cut in wetland areas will be removed from the wetland. Some of the woody vegetation that is cleared may remain in the wetland areas. This includes lop and scatter of tree limbs and potentially some thin scatter of wood chips, and vegetation fragments resulting from mowing the shrub and sapling layer. Woody vegetation left in the wetland will be scattered in a manner that it does not impede vegetation growth, water flow or alter the bottom elevation of the wetland.

H. Wooded Riparian Buffer Impact Minimization and Restoration Plan

A 50-foot wide low-growth vegetative buffer will be maintained along waterways, where it currently exists. In this buffer, mowing will be restricted and woody vegetation attaining heights greater than 15 feet at maturity will be cleared; the existing low-growth vegetation will be allowed to remain except in

areas where TCSBs will be installed. Areas disturbed by construction will be re-seeded as described in the *Wetland Restoration and Revegetation Plan* section.

Cut material shall be placed to assure that the material will not enter any stream or waterway.

I. Final Sequencing and Scheduling Plan

ROW clearing for construction along Segment O is scheduled to begin in March 2012. The following summarizes the anticipated timing of construction along this segment:

- ROW clearing – March 2012-Nov. 2012
- Permanent Barrier installation – April 2012
- Structure Foundations – July 2012-Jan. 2013
- Install Structures – Aug. 2012-Feb. 2013
- Install Conductor – Oct. 2012-Feb. 2013

ROW cleanup and restoration is scheduled to occur in fall 2012 in areas where construction has been completed, and spring 2013 in all other areas. Actual dates for restoration will be weather and schedule dependent. Permanent restoration within any given area will be properly implemented within 30 days of final construction. If restoration is delayed due to weather or soil conditions, the area will be protected until permanent restoration can be completed.

Temporary clear span bridges will be installed as construction progresses along the segment. Bridges will not be set prior to July 2012, and are anticipated to be removed in winter/spring 2013 following restoration. The actual removal date may change if there are delays in construction and/or restoration.

J. Post-Construction Monitoring Plan

Two levels of wetland and waterway monitoring will be required for this project. The following provides a summary of this monitoring.

<u>Weekly Monitoring</u>

In accordance with typical standard conditions of an Erosion Control permit, ATC will conduct frequent monitoring (e.g., weekly and after a significant rainfall event) of erosion and sediment controls during and after construction, which may include areas within and adjacent to wetlands and waterways. This monitoring will occur until the areas are stabilized as defined in General Condition #76 in the Utility Permit.

<u>Annual Monitoring</u>

ATC will conduct annual post-construction monitoring of the portions of wetlands and waterways impacted by construction, as outlined in General Condition #78 of the WDNR Utility Permit. The monitoring will consist of documenting vegetation types and approximate percent cover in the disturbed areas. The monitoring will occur during the growing season and will be conducted annually

for 3 years after construction unless compliance is achieved and documented earlier. If non-native or invasive species identified in the post-construction survey are generally not consistent with adjacent areas and/or pre-construction conditions, ATC will prepare a remediation plan for WDNR approval. This plan will be implemented within 90 days of WDNR approval (if the approval occurs early in the growing season), or during the following growing season, whichever occurs first. Additional follow-up revegetation procedures will be developed and implemented in problem areas if necessary.

A restoration monitoring report will be submitted to the WDNR by December 15 for each year in which monitoring occurs in accordance with General Condition #26 of the WDNR Utility Permit. The report will consist of a summary of dominant vegetation, approximate percent cover and general topography observations in disturbed portions of wetlands and waterways. Photographs of each feature and recommendations to cease monitoring or apply corrective action (if necessary) will also be provided.

K. Oak Wilt Restrictions

ATC's corporate policy is to abide by the PSC 113.051 requirements related to oak wilt, however we are also aware of the WDNR recommended guidelines for timing restrictions. ATC makes every attempt to follow the WDNR recommended guideline that is typically April 1-July 31, using the PSC 113.051 requirements during this timeframe. In addition, where local municipalities have more stringent requirements, ATC attempts to comply with those requirements. Portions of Segment O are located within the City of Madison, which has a moratorium on oak activities from April 1 through October 15, unless permitted by the City Forester. Other portions of Segment O are located within the City of Middleton, which prohibits oak activities from April 1-August 1, unless approved by the City Forester. On these portions of Segment O, ATC will either ensure that oak tree trimming /removal is done outside of the restricted time periods, or will work with the City Foresters to gain the necessary approval if it becomes necessary to trim or remove oak trees during the restricted time period.

The Memorandum of Understanding between ATC and the Wisconsin Department of Transportation (WisDOT) further requires that oak trees within WisDOT ROW shall not be cut or pruned from April 15 to October 15 unless a thick coat of asphalt base tree paint of herbicide is applied immediately after **any** cut, pruning wound, or abrasion made between those dates (note: herbicide use as a substitute for tree paint is allowed under PSC 113.0511. WisDOT has approved this substitute on an experimental basis, but reserves the right to revoke herbicide use if it is not providing adequate protection against the spread of oak wilt disease).

Segment O, Appendix A

Environmental Access Plan

Environmental Access Plan – Segment O

Graphic Index
for Rockdale to West Middleton Project

SEGMENT HIGHLIGHTS

- **2 Temporary Clear Span Bridges will be required over waterways**
- **Three poles will be constructed in wetlands along Segment O (#121930 in wetland O(30)-W2, #121931 in wetland O(30)-W3 and 121982 in wetland O(30)-W6).**
- **Bird marking devices will be installed on the shield wire between structures #121926 and #121928 (Pages O-4 and O-5).**
- **Invasive Species Caution: Invasive species' locations are identified on pages O-5, O-6 and O-15 of this plan. Refer to these pages for instructions on how to proceed in these areas.**
- **Soil Contamination Caution: A contaminated soils area with special containment and disposal requirements is identified on Page O-6 of this plan. Contact the Environmental Monitor for more information before working in this area.**
- **Four locations along this segment have erosion control details specified in the Erosion Control Plan. These areas are identified on this plan.**

INDEX TO FEATURES

FEATURES INDEX			
Wetland Identifier	Waterway		Map Page
	Identifier	TCSB	
O(120)-W1	O(120)-R1		O-1
O(120)-W2			O-2
O(120)-W3	O(120)-R2		O-2
O(30)-W1	O(30)-R1	X	O-5
O(30)-W2	O(30)-R1		O-5
O(30)-W3			O-5
O(0A)-W2			O-5
O(0A)-W3			O-5
O(30)-W7			O-6
O(30)-W8			O-6
O(0A)-W4			O-6
	O(30)-R2	X	O-7
O(30)-W4			O-7 and O-8
O(30)-W4A			O-8
O(0A)-W1			O-11 and O-12
O(30)-W6			O-14 and O-15
	O(30)-R3		O-15

MAGAEL OF MADISON LLC
070808380005

OUT OF SIGHT STORAGE LLC
070808485401

DUANE A VAN HAREN
070808485303

CATHERINE A BETHKE
070808485009

Bayside Rd

14

WI DOT
070808387508

O (120)-W1

121912

RICHARD J HANSEN
070808489407

MICHAEL WALSH
070808489103

Refer to Erosion Control Detail Sheet for Area Near Structure 121912

N (120)-W1A

West Middleton

AMERICAN TRANSMISSION COMPANY LLC
070808486900

AMERICAN TRANSMISSION COMPANY LLC
070808382209

Town of Middleton

121911

Willow Ln

O (120)-R1

TWIN VALLEY FARMS III LLC
070808480004

RICHARD T WATTS
070808495306

121910

O (120)-W1

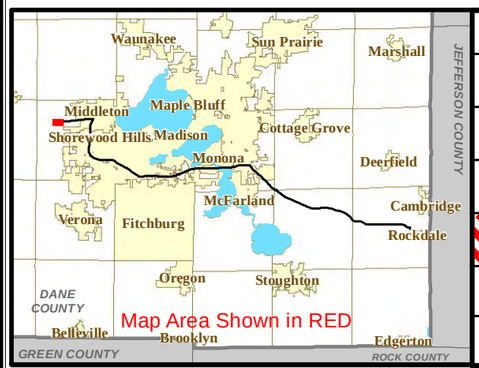
AMERICAN TRANSMISSION COMPANY LLC
070808490002

TWIN VALLEY FARMS III LLC
070808395008

Rare Birds -
Clearing restriction April 15 through Aug. 31 for the entire Cardinal / W. Middleton property including the tie lines

RICHARD T WATTS
070808495007

O (120)-W3



WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
  Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- STOP - NO VEHICLE ACCESS
  FOOT TRAFFIC ONLY
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way

* Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

- Existing Pole
- Existing Substation
- *Proposed Pole*
- *Proposed Pole in Wetland*
- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)
- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 Topographic Line — Elevation
- Property Line
  Shown with Parcel Number and Owner Name
- Protected or Sensitive Resource - Construction Technique Protocol Noted
- Invasive Species Protocol
  Species Type Noted on Map
- BMP Required if Soil is Disturbed - Perimeter Control
- MMSD Structure
  Only on segments O, H, and B
- MMSD Underground Sewer Line
  Only on segments O, H, and B
- WDNR Hydrology — Intermittent Stream / Perennial Stream
- Waterway
- Wetland
- BMP Required if Soil is Disturbed - Temporary Slope Breaks
- BMP Required if Soil is Disturbed - Ditch Checks

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010.
The information presented in this map document is advisory and is intended for reference purposes only.
ATC owned and operated facility locations are approximate.

ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

February 21, 2012

Orthophotography: 2010 FlyDane
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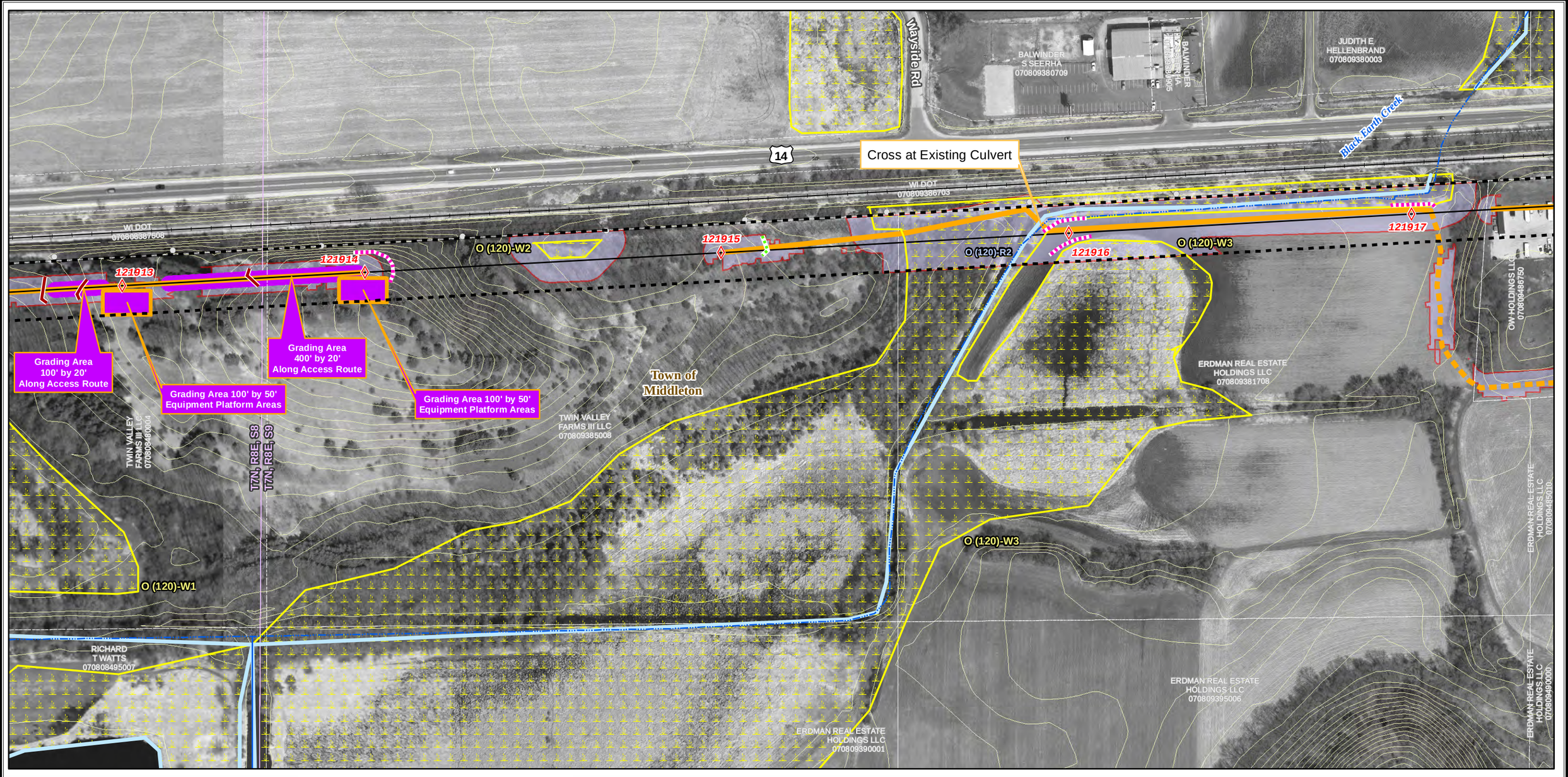

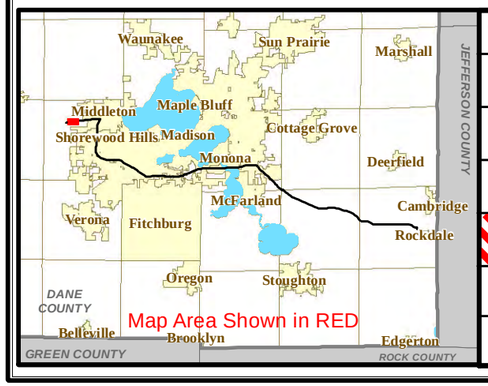

WETLAND CONSTRUCTION METHOD

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  * Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

- Existing Pole ■ Existing Substation
- *Proposed Pole*
- *Proposed Pole in Wetland*
- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)

- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 Topographic Line — *Elevation*
- Property Line
  Shown with Parcel Number and Owner Name
- Protected or Sensitive Resource - *Construction Technique Protocol Noted*
- Invasive Species Protocol — *Species Type Noted on Map*
- BMP Required if Soil is Disturbed - Perimeter Control

- MMSD Structure
  Only on segments O, H, and B
- MMSD Underground Sewer Line
  Only on segments O, H, and B
- WDNR Hydrology — *Intermittent Stream*, *Perennial Stream*
- Waterway
- Wetland
- BMP Required if Soil is Disturbed - Temporary Slope Breaks
- BMP Required if Soil is Disturbed - Ditch Checks

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010.
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ATC owned and operated facility locations are approximate.

ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

N

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

February 21, 2012

Orthophotography: 2010 FlyDane
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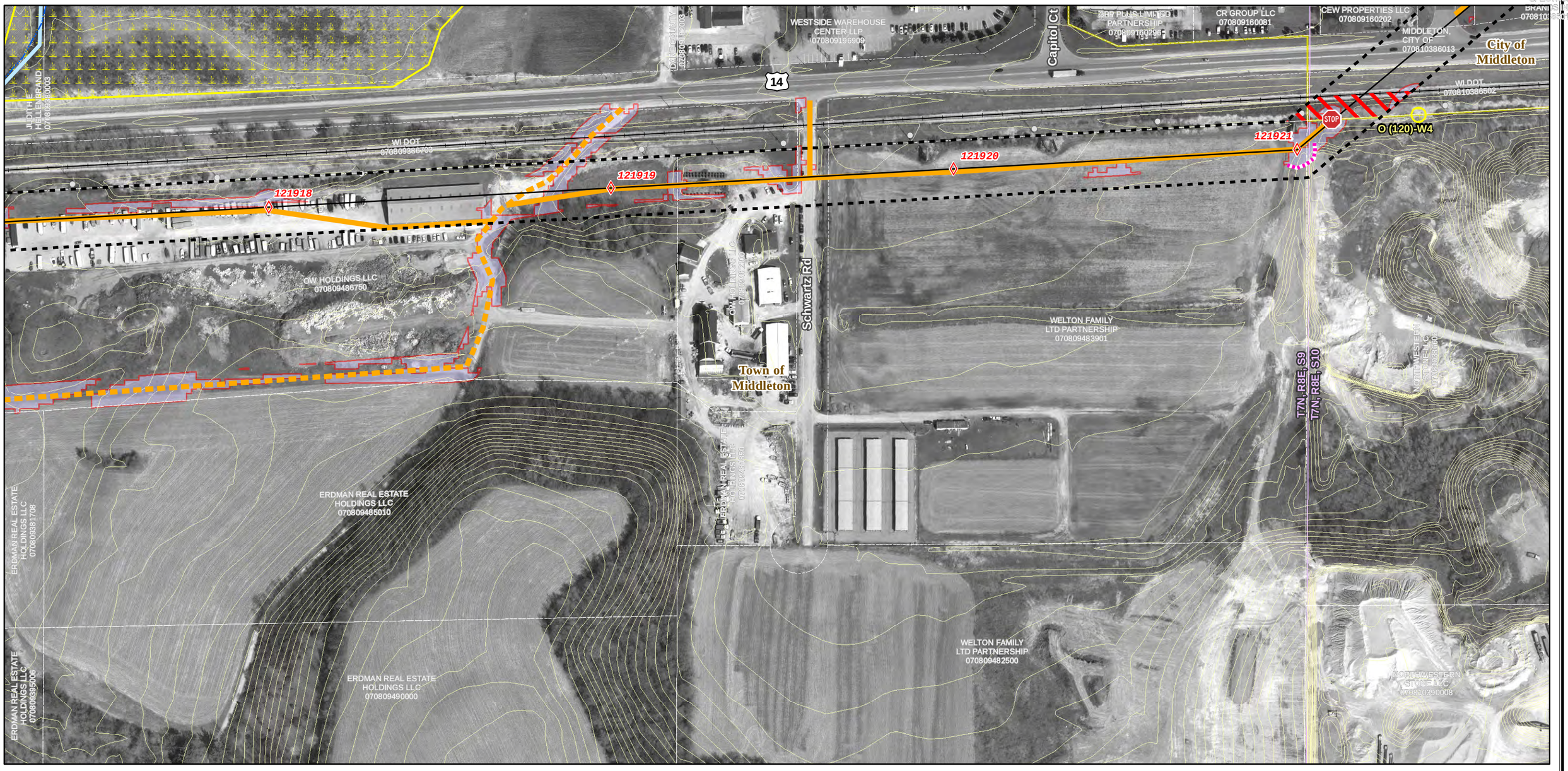

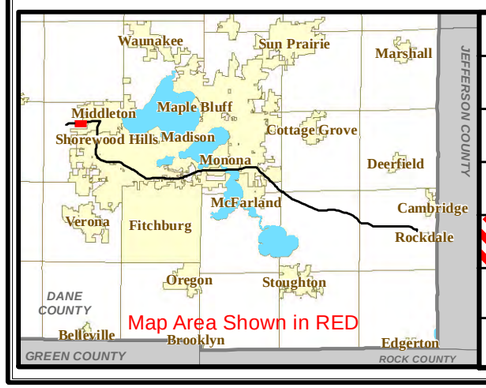

WETLAND CONSTRUCTION METHOD

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- Graded Construction Access and Structure Pads
- Transmission Right-of-Way
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- Protected or Sensitive Resource - *Construction Technique Protocol Noted*
- Invasive Species Protocol — *Species Type Noted on Map*
- BMP Required if Soil is Disturbed - Perimeter Control

- MMSD Structure
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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

February 21, 2012

Orthophotography: 2010 FlyDane
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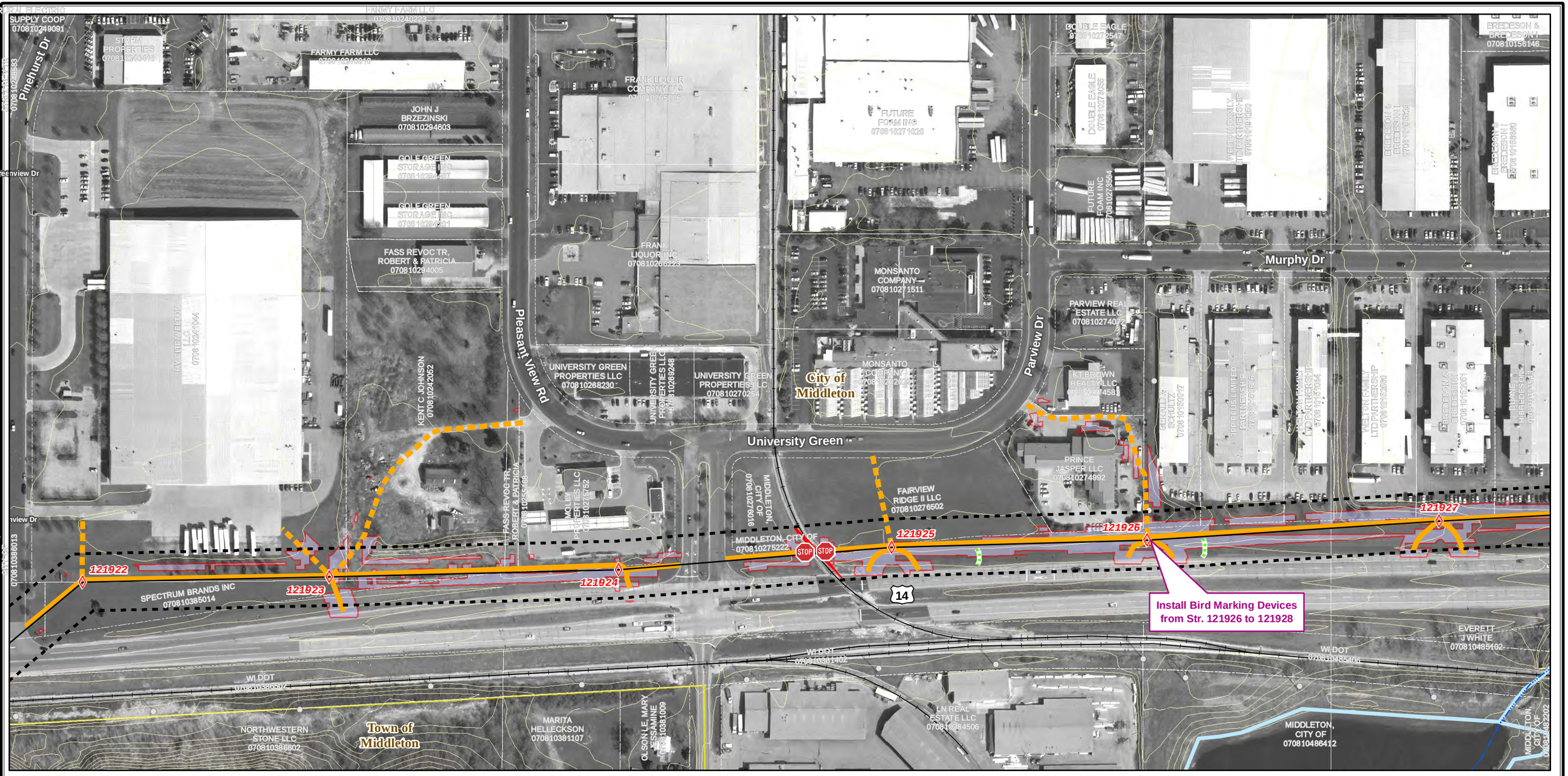

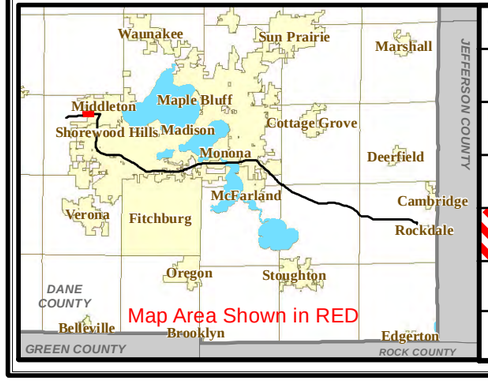

WETLAND CONSTRUCTION METHOD

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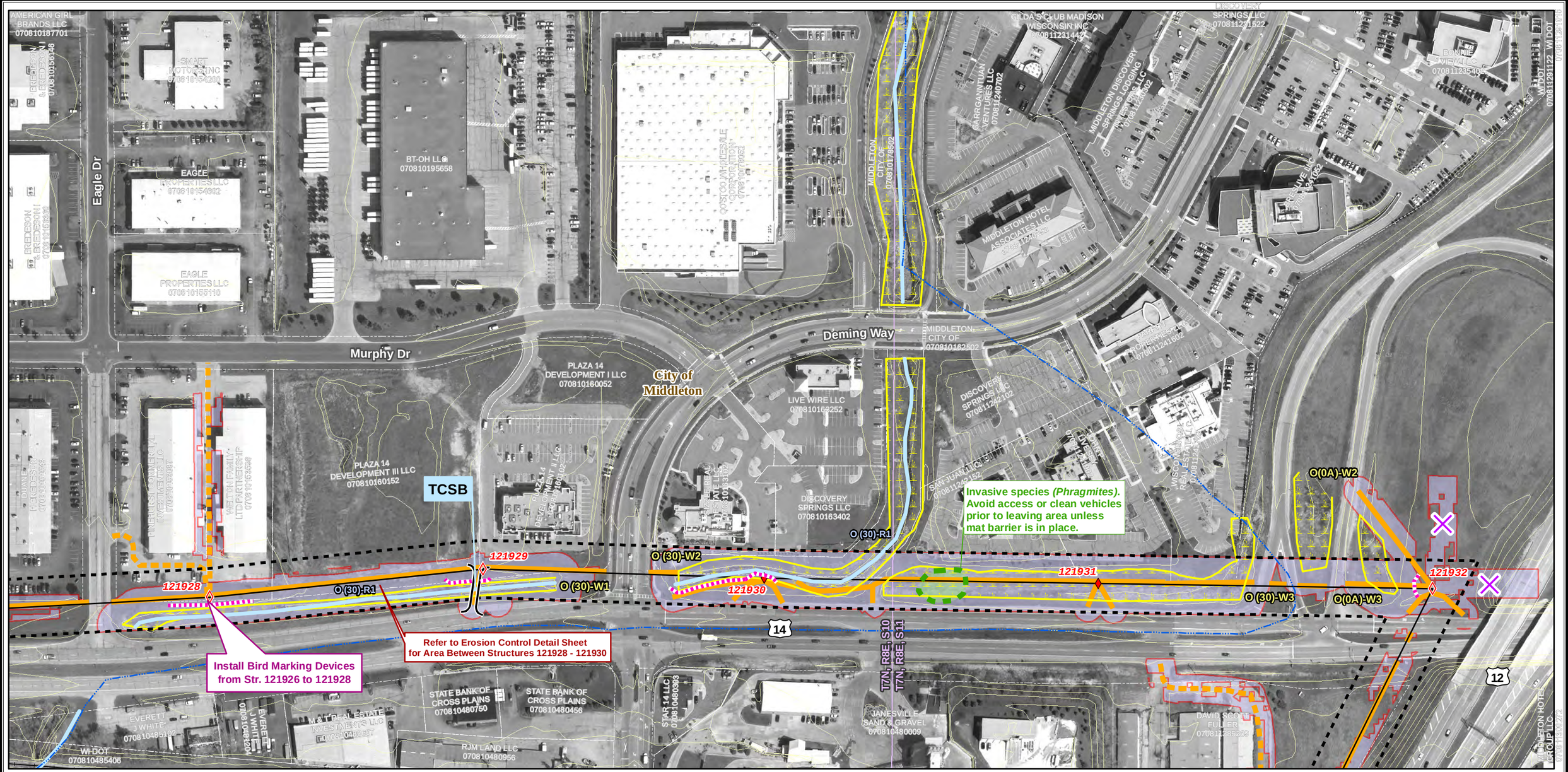

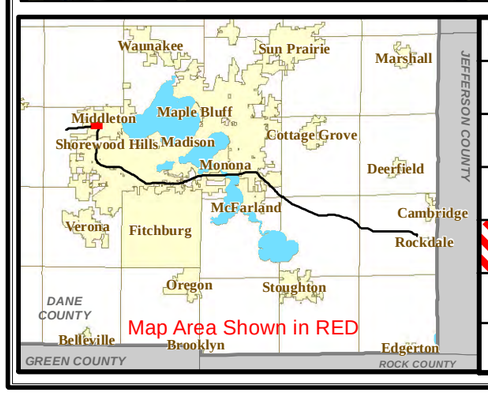

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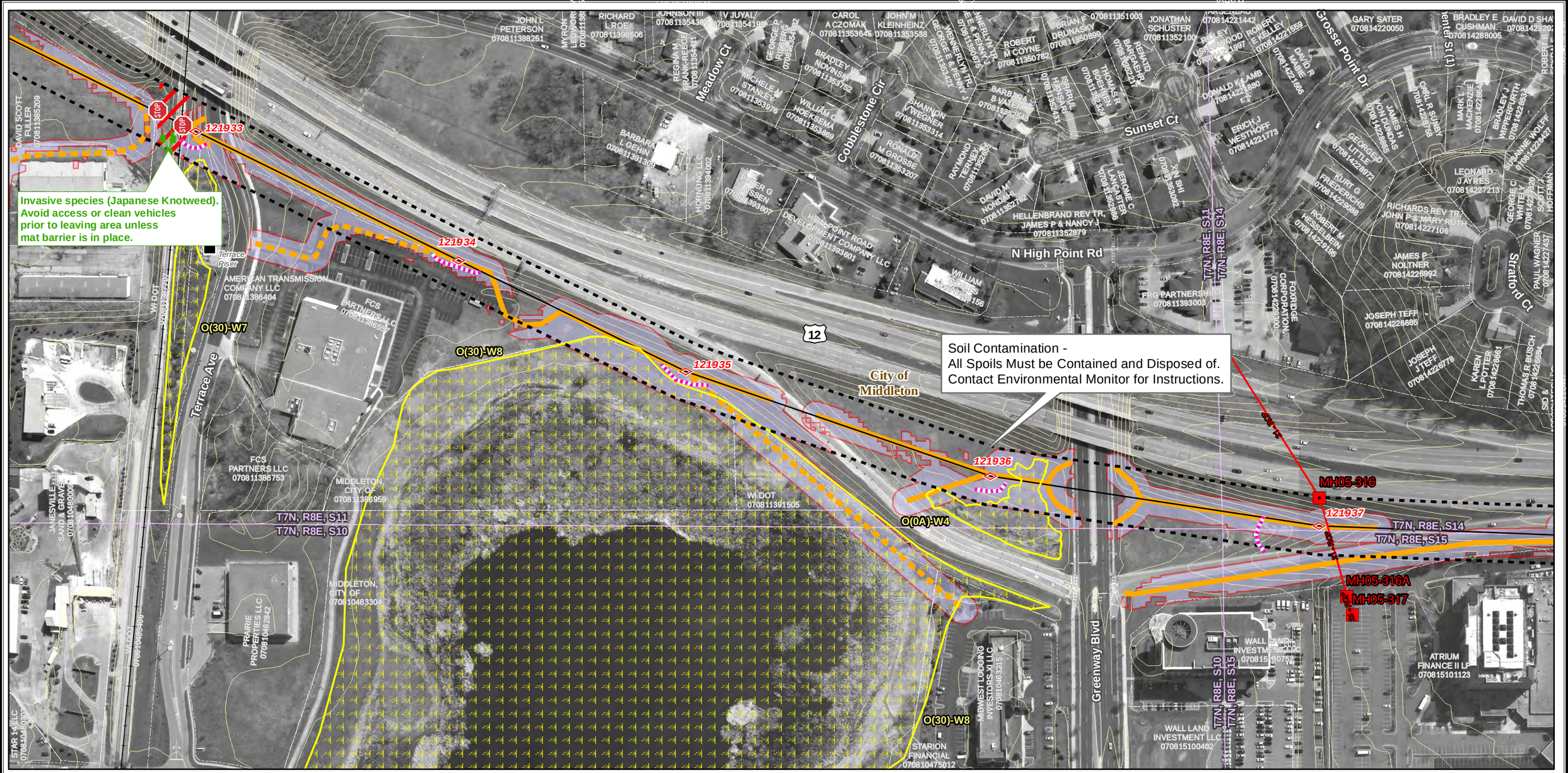

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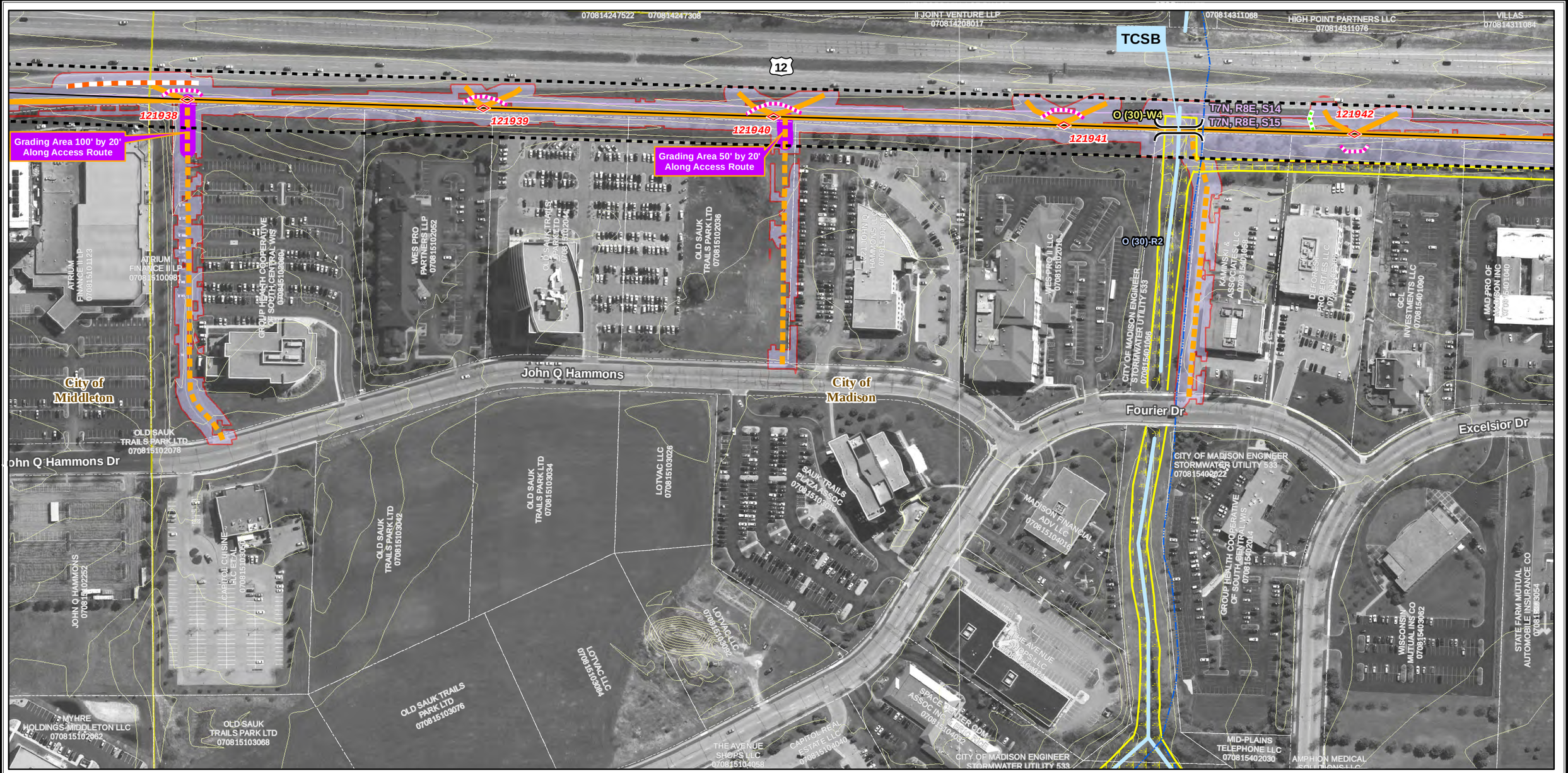

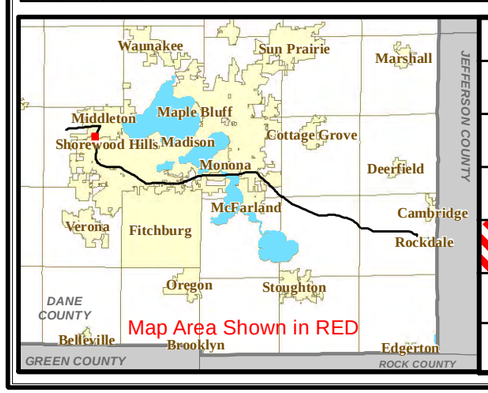

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

February 21, 2012

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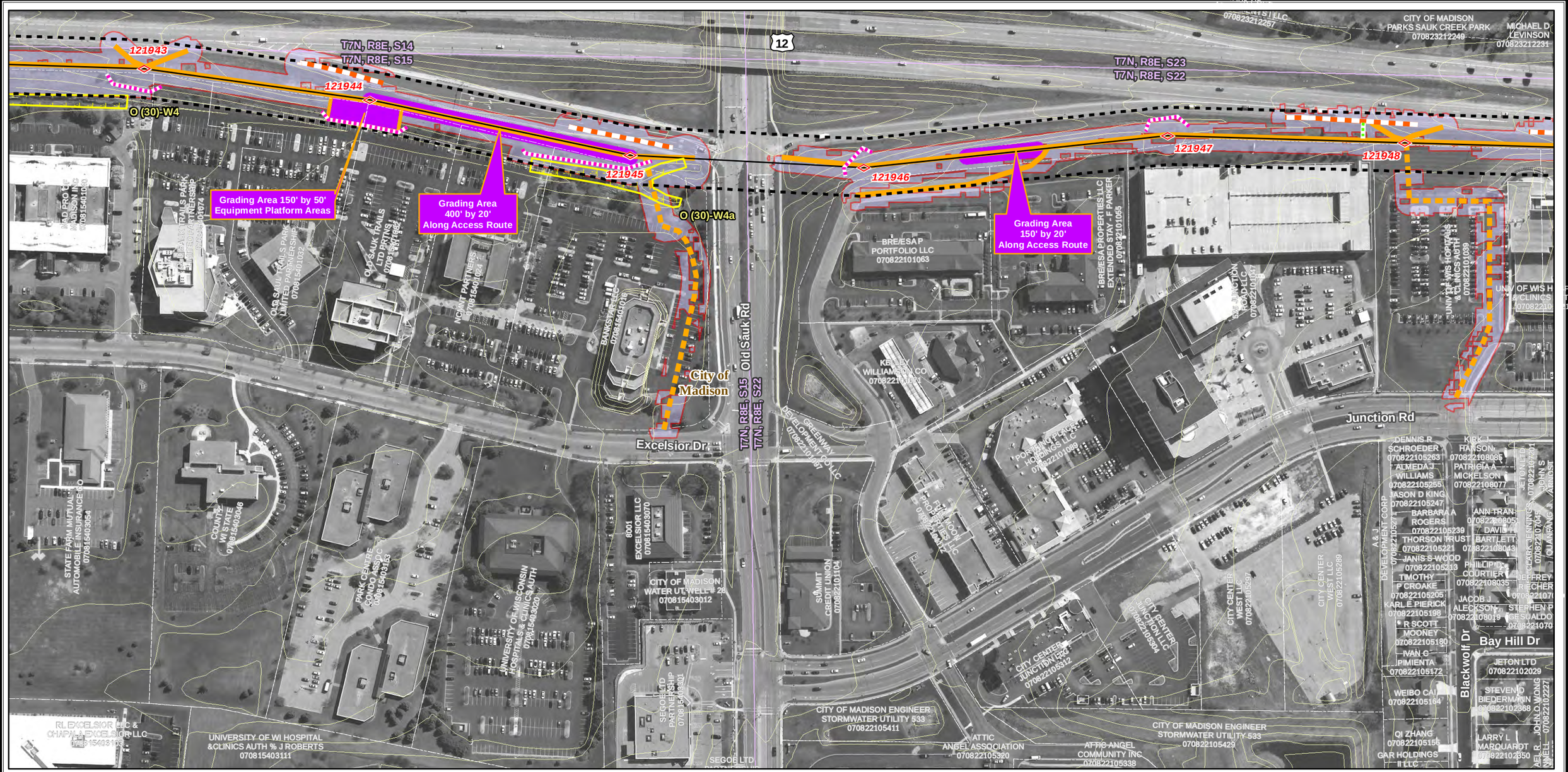

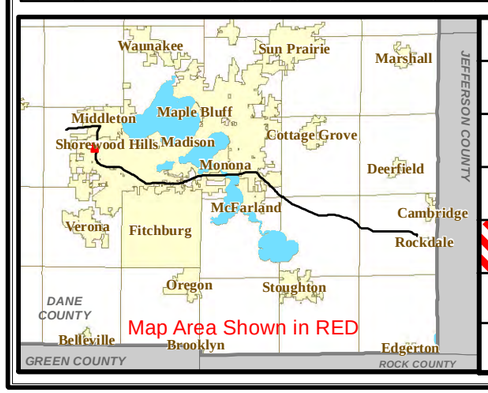

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

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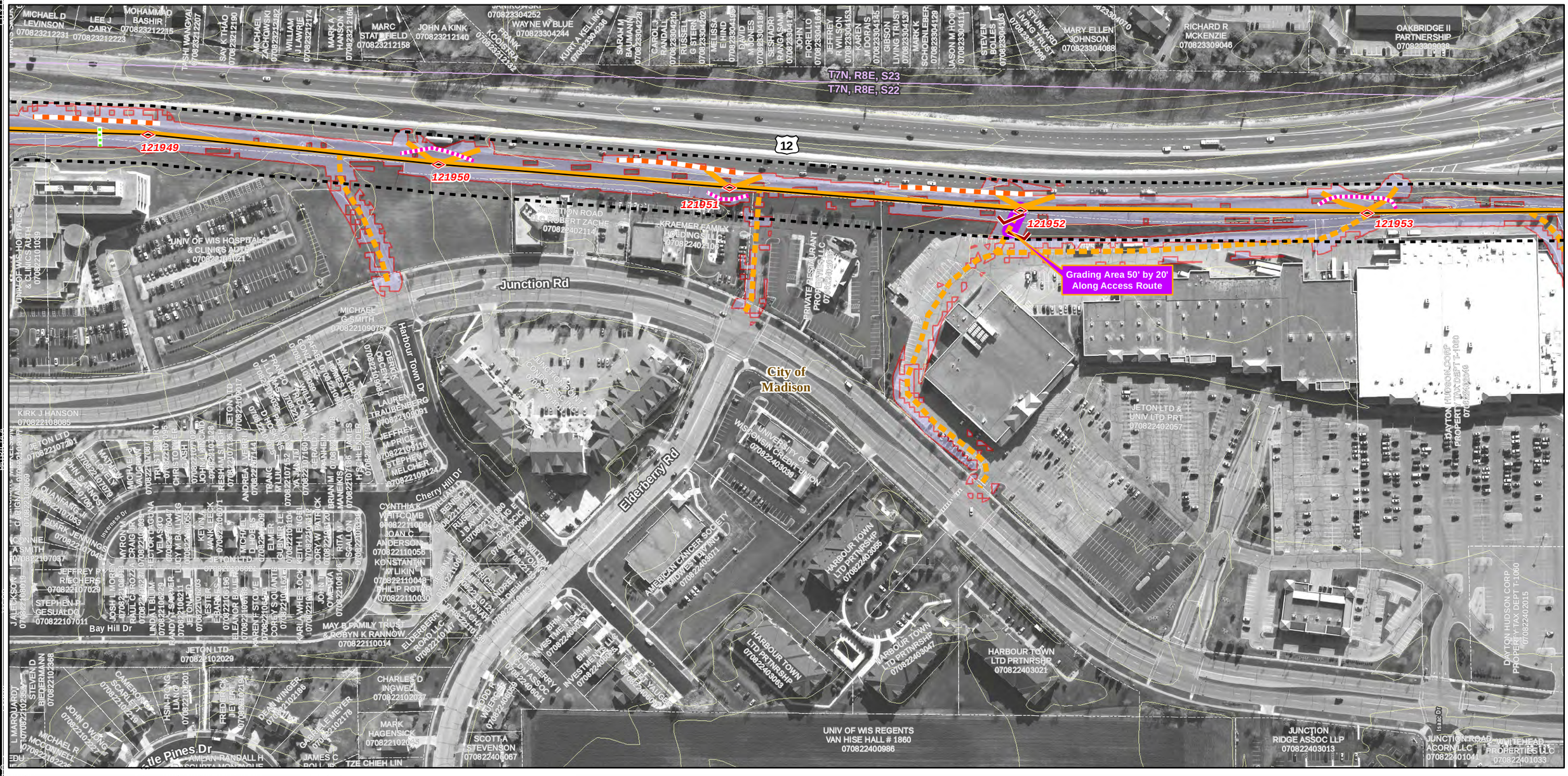

WETLAND CONSTRUCTION METHOD

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

February 21, 2012

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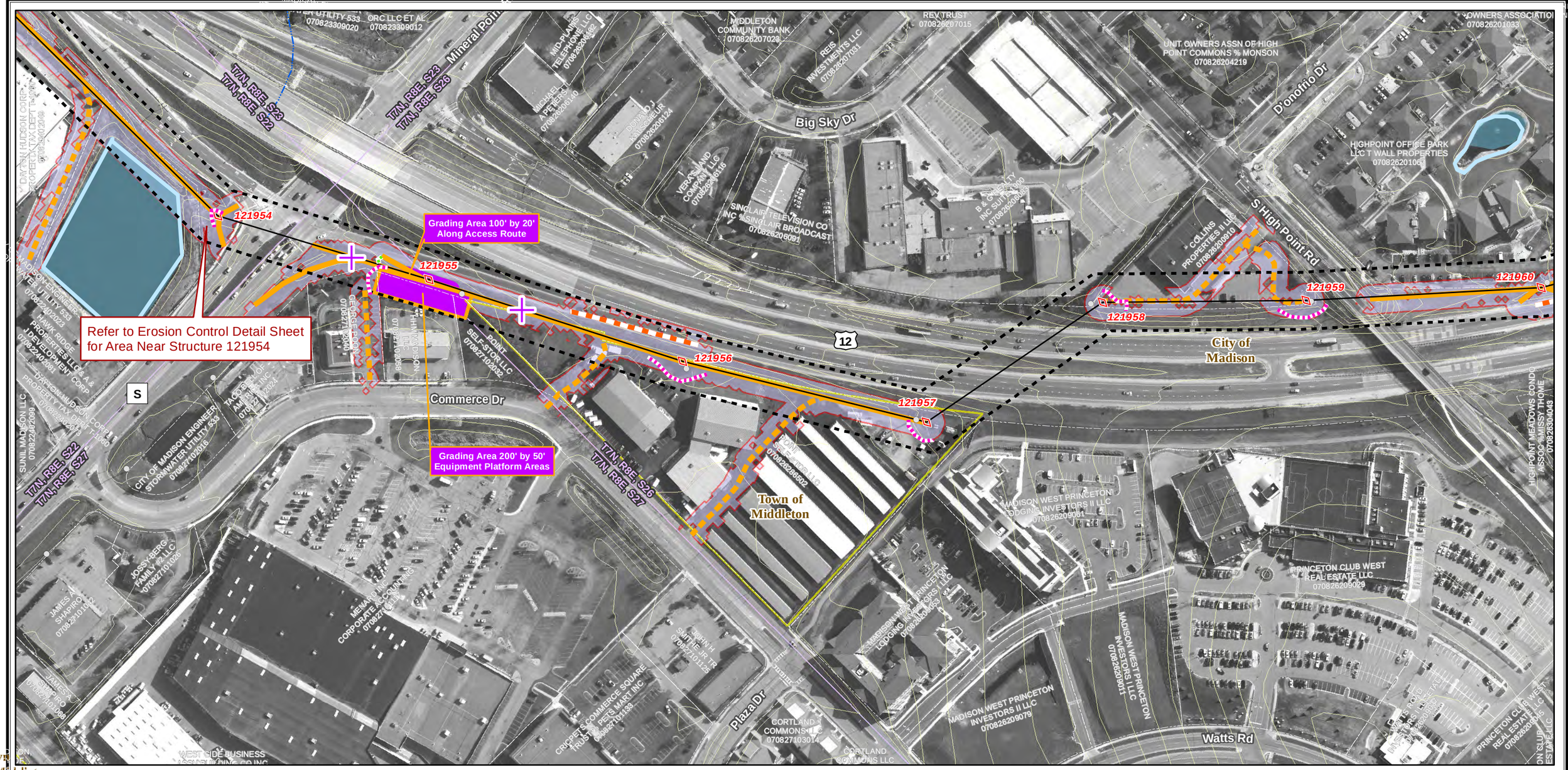

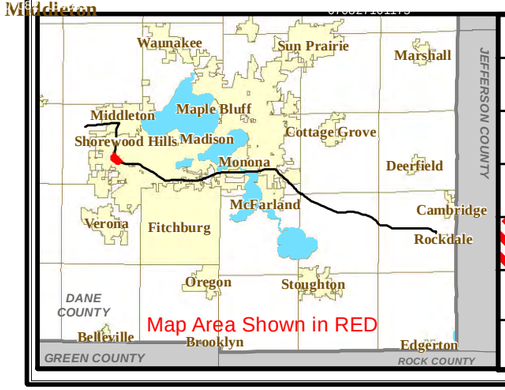

WETLAND CONSTRUCTION METHOD

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200 Feet

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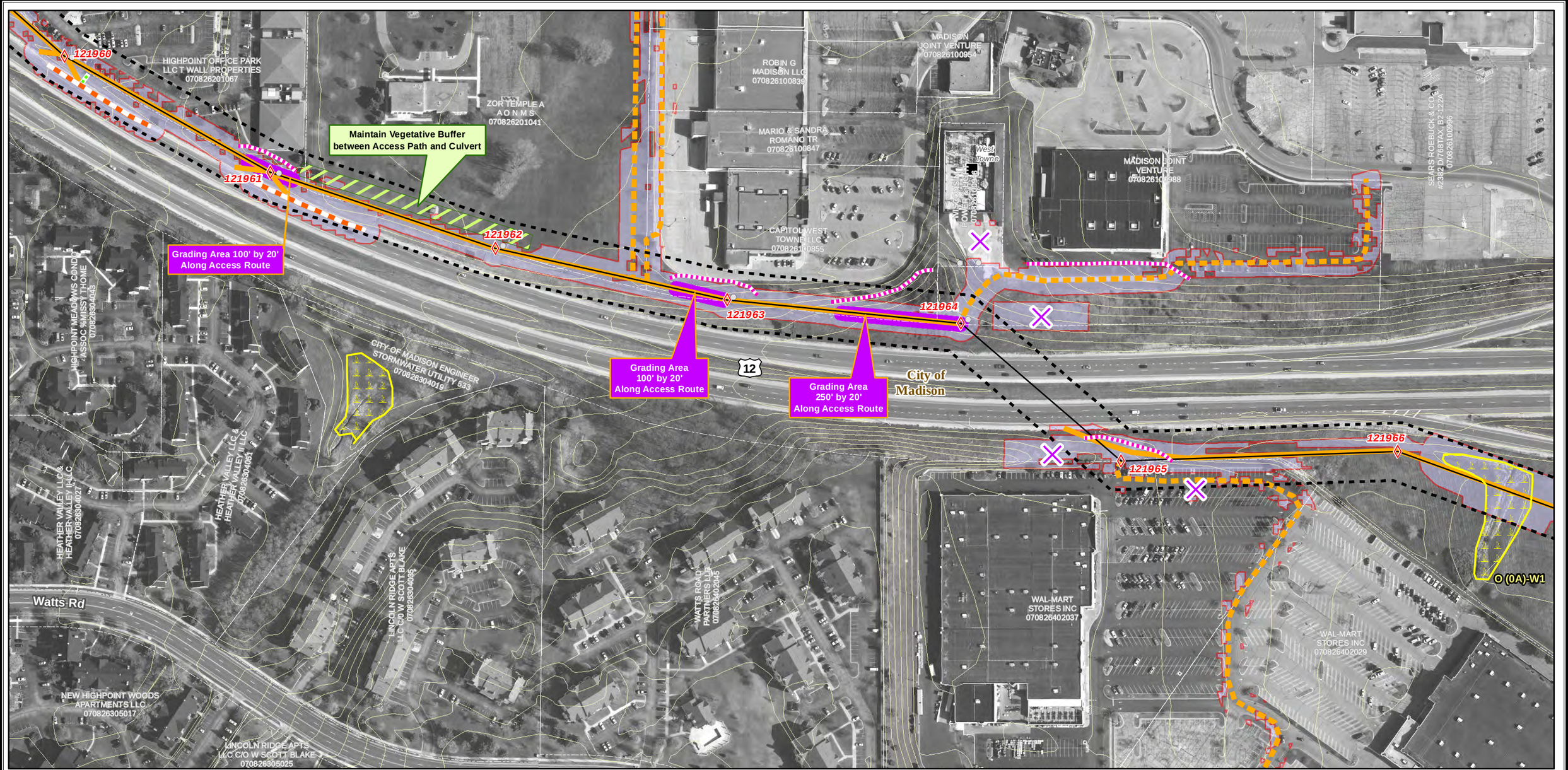

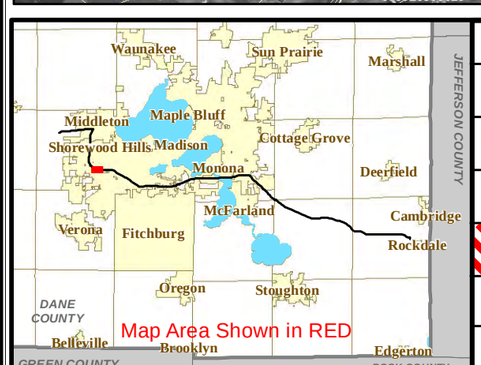

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N

0 100 200
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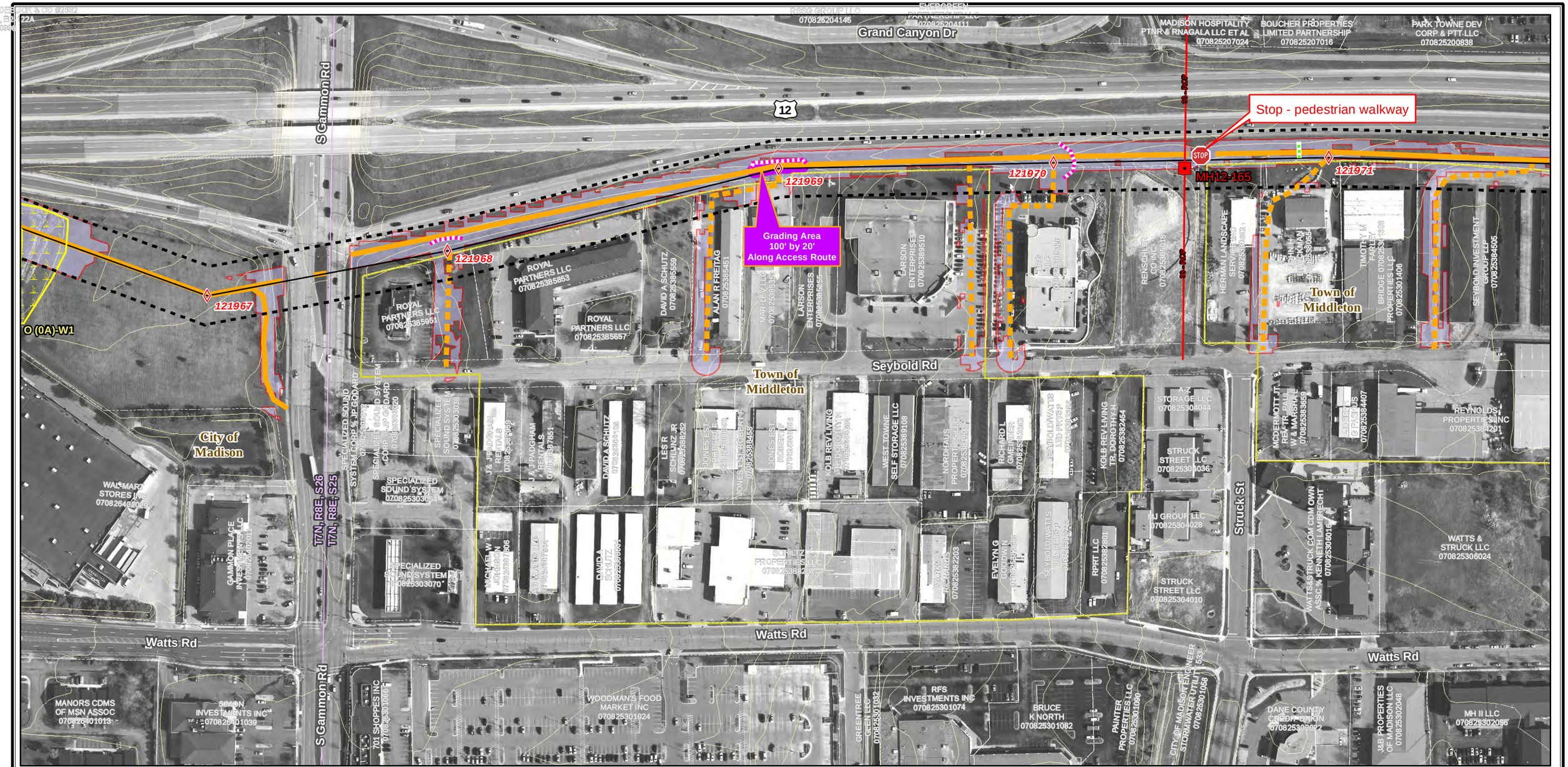

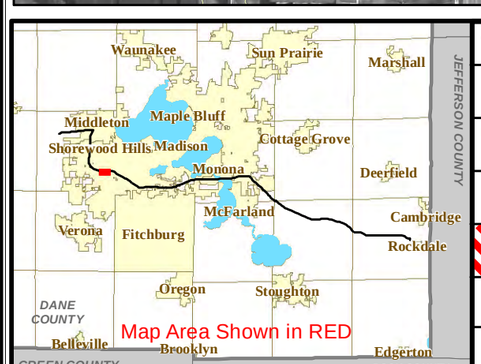

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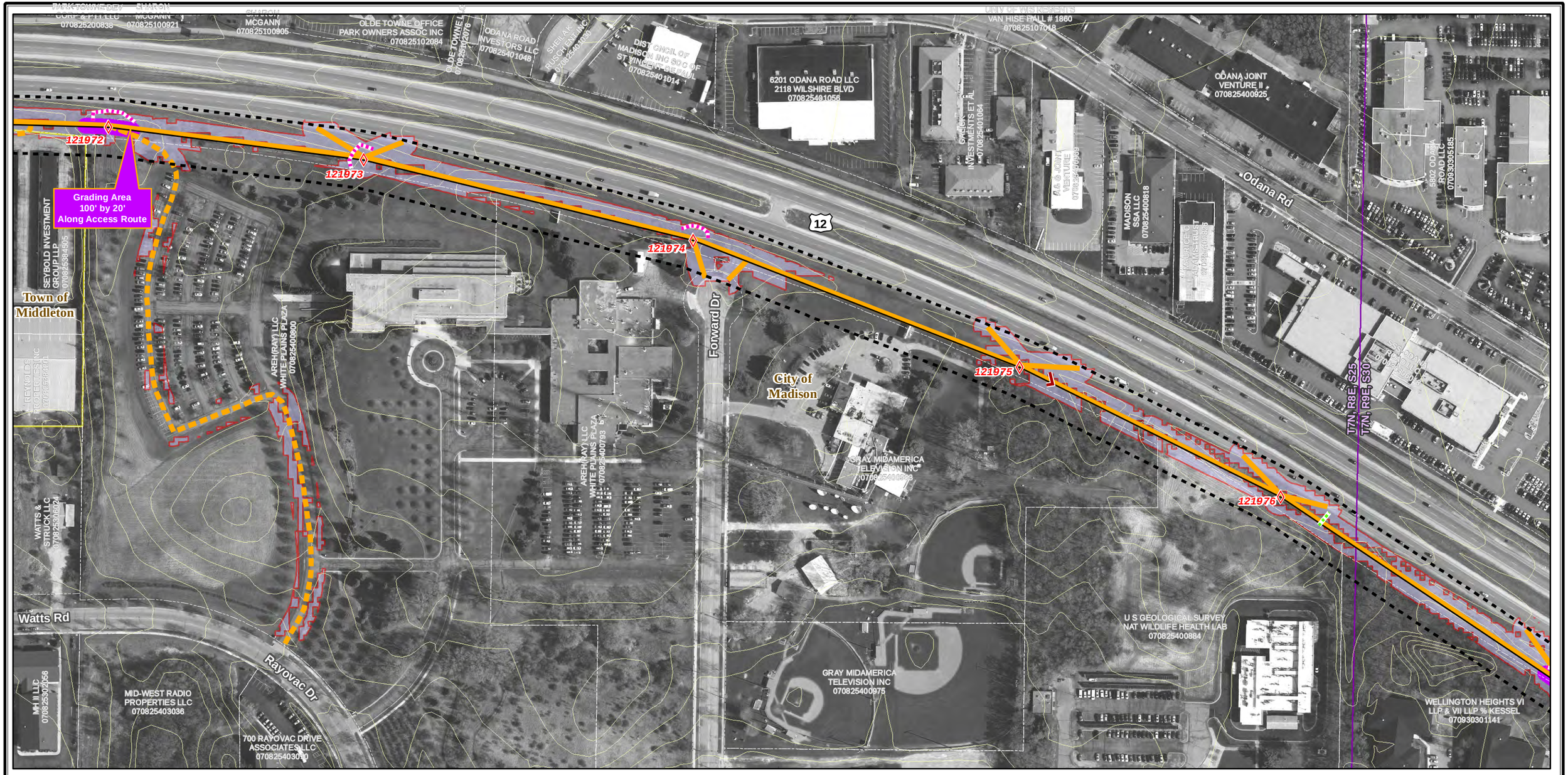

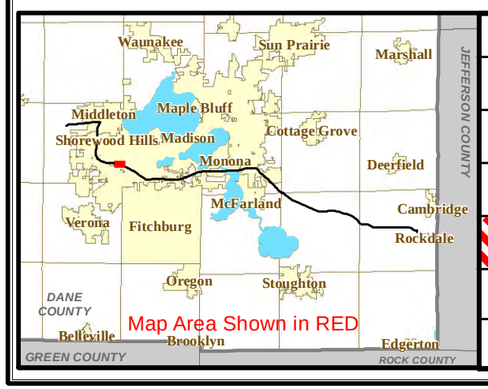

WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
  Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- STOP - NO VEHICLE ACCESS
  FOOT TRAFFIC ONLY
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way

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- Existing Pole
- Existing Substation
- *Proposed Pole*
- *Proposed Pole in Wetland*
- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)
- **Approximate wire set up area (~60 ft. x 200 ft.)**
- 200 Topographic Line — *Elevation*
- Property Line
  Shown with Parcel Number and Owner Name
- *Protected or Sensitive Resource - Construction Technique Protocol Noted*
- *Invasive Species Protocol*
  Species Type Noted on Map
- BMP Required if Soil is Disturbed - Perimeter Control
- MMSD Structure
  Only on segments O, H, and B
- MMSD Underground Sewer Line
  Only on segments O, H, and B
- *WDNR Hydrology*
  Intermittent Stream
  Perennial Stream
- *Waterway*
- *Wetland*
- BMP Required if Soil is Disturbed - Temporary Slope Breaks
- BMP Required if Soil is Disturbed - Ditch Checks

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010.
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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

February 21, 2012

Orthophotography: 2010 FlyDane
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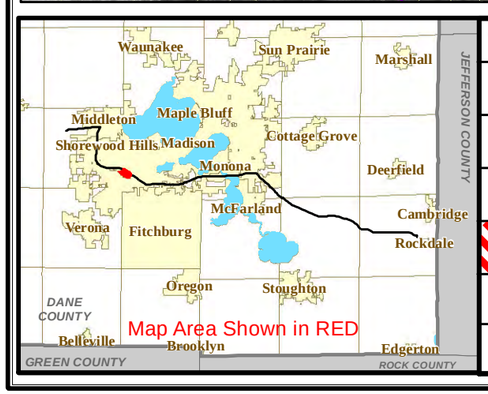

WETLAND CONSTRUCTION METHOD

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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

February 21, 2012

Orthophotography: 2010 FlyDane
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WETLAND CONSTRUCTION METHOD

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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200 Feet

AMERICAN TRANSMISSION COMPANY

February 21, 2012

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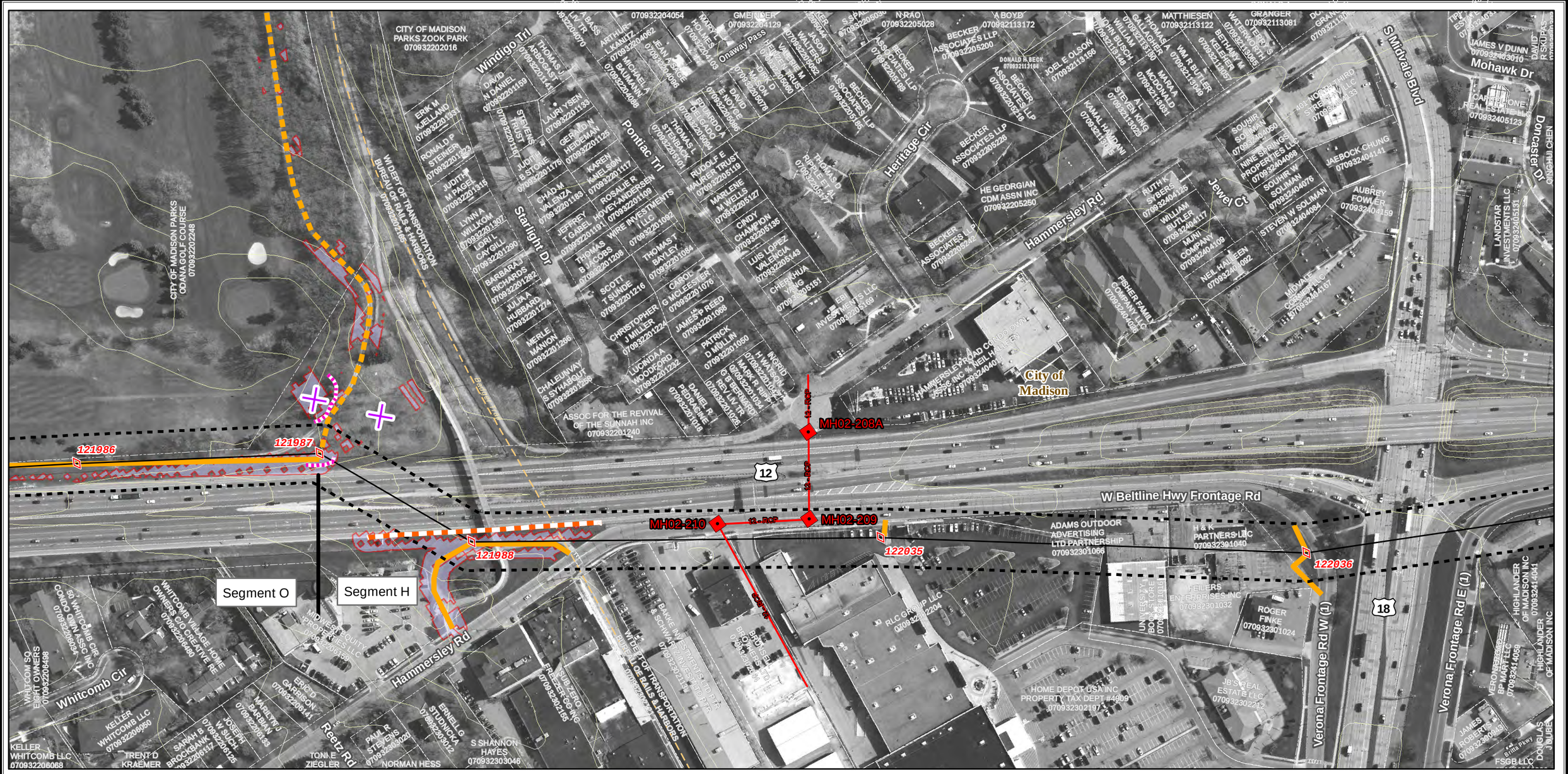

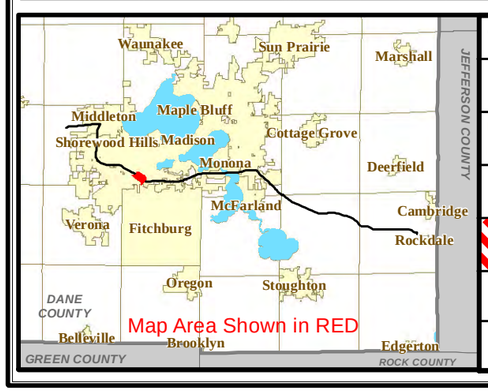

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

February 21, 2012

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Segment O, Appendix B

Photographs of Wetlands and Waterways

Photographs of Segment O Wetlands

Photo 1. View north of O120-W1

Photo 2. View south of O120-W1

Photo 3. View south of O120-W2

Photo 4. View west of O120-W3 from east end

Photographs of Segment O Wetlands

Photo 5. View west of O30-W1 (and O30-R1) from east end

Photo 6. View east of O30-W2

Photo 7. View east of O30-W3 from west end

Photo 8. View north of O0A-W2

Photographs of Segment O Wetlands

Photo 9. View north of O0A-W3

Photo 10. View west of O30-W7

Photo 11. View west of O30-W8 (pink stake is location of structure 121935)

Photo 12. View east of O0A-W4

Photographs of Segment O Wetlands

Photo 13. View east of north end of O30-W4

Photo 14. View south of south end of O30-W4a

Photo 15. View south of O0A-W1

Photo 16. View east of O30-W6 near west end

Photographs of Segment O Wetlands

Photo 17. View west of ditch portion of O30-W6 near east end

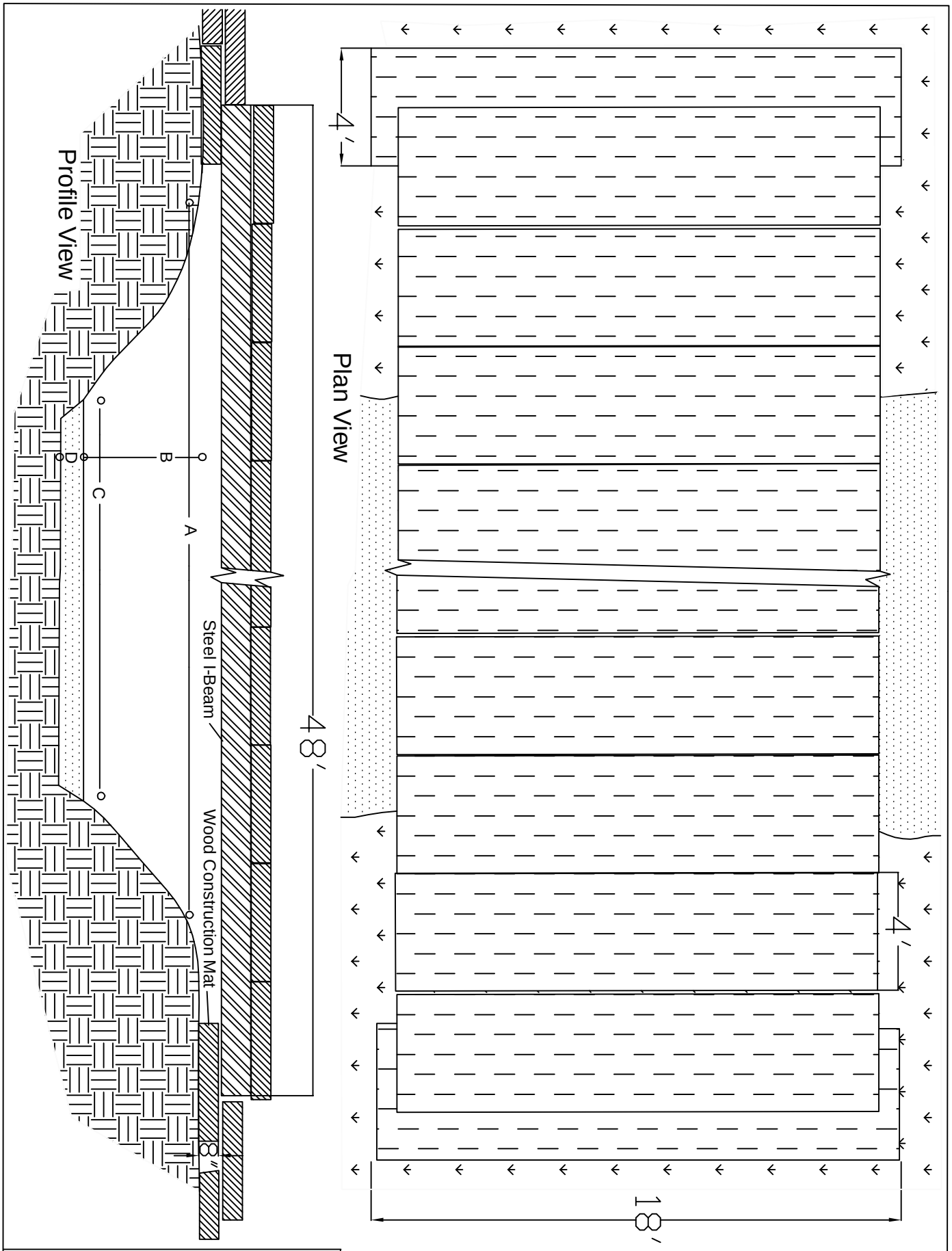
Photographs of Segment O Waterways Requiring a TCSB

Photo 18. View east of waterway O30-R1

Photo 19. View east of waterway O30-R2

Segment O, Appendix C

TCSB Plan and Profile Figures

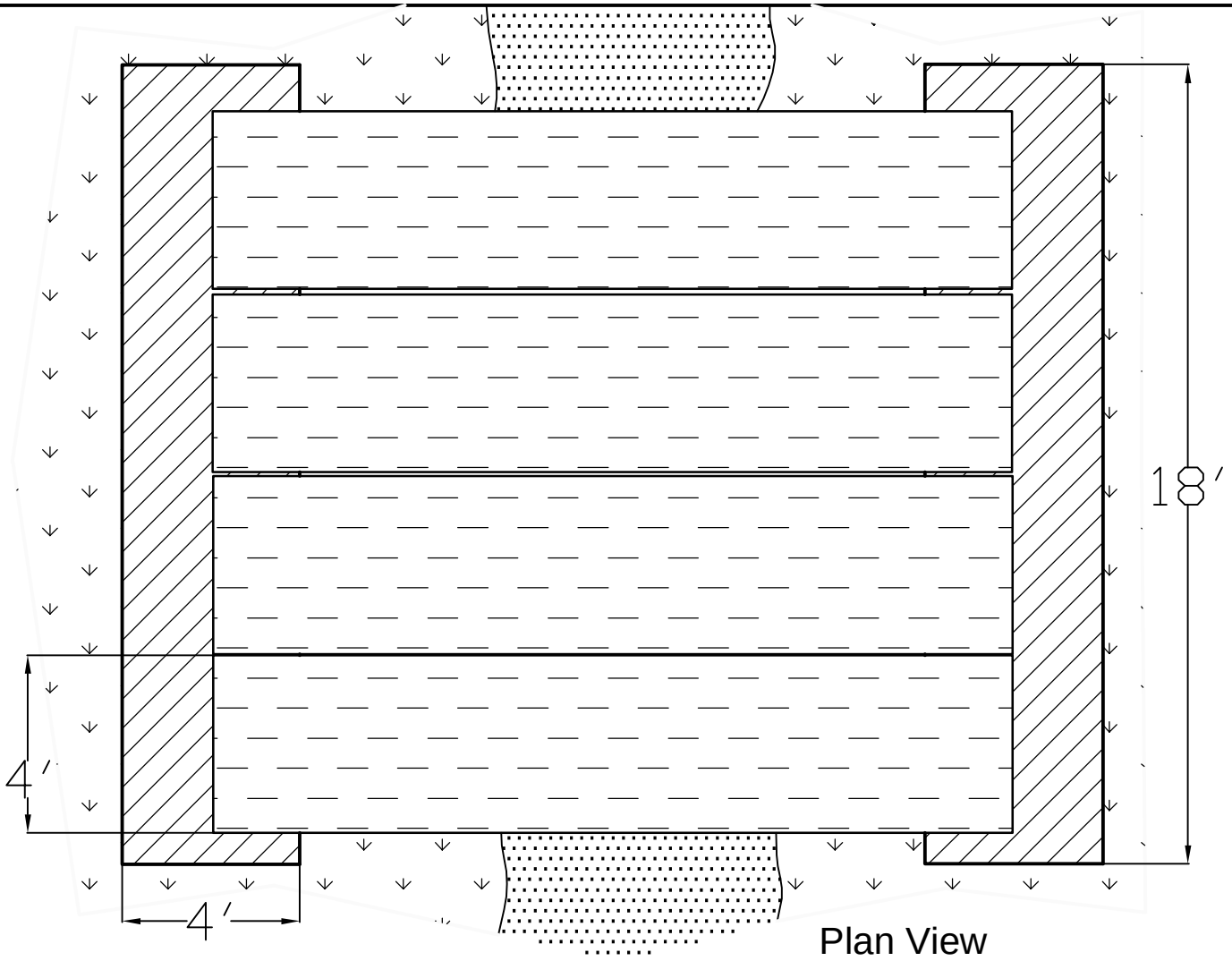


TCSB Feature ID - o(30) - R1 west of Deming Rd	
A	Bank Width - 35 - 40 ft.
B	Bank Height - 6-8 ft.
C	Water Width - 10 ft.
D	Water Depth - 1-2 ft.

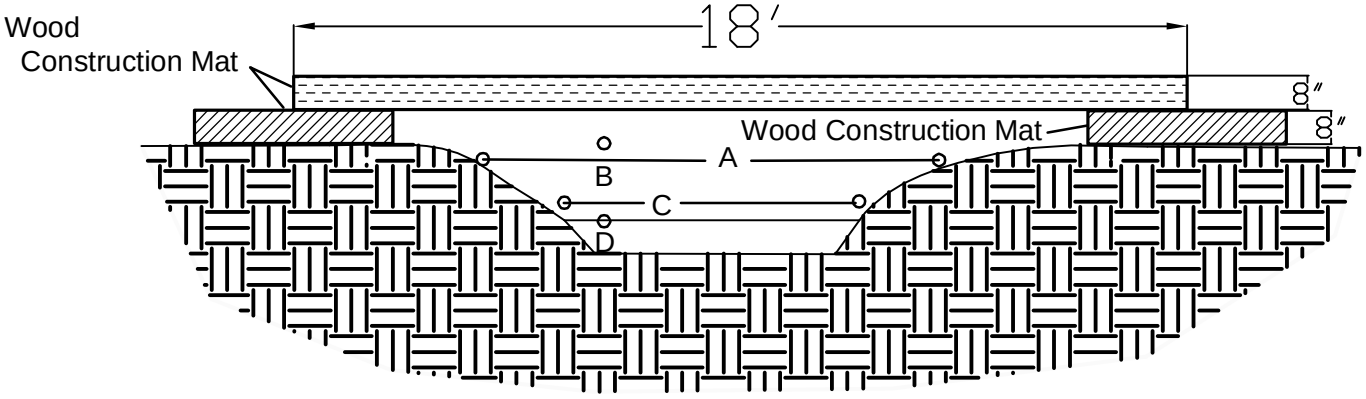
American Transmission Company - Rockdale to West Middleton Project

Date: December 27, 2011 Not to Scale Drawn by: PTC

JZ Environmental Consulants Inc. N13196 Hwy M-95 Channing, MI 49815



Plan View



Profile View

TCSB Feature ID - o(30)-R2	
A Bank Width - 5 ft.	American Transmission Company - Rockdale to West Middleton Project
B Bank Height - 2 ft.	Date: December 16, 2011 Not to Scale Drawn by: PTC
C Water Width - 3 - 5 ft.	
D Water Depth - 1 ft.	JZ Environmental Consulants Inc. N13196 Channing, MI 49815

Segment O, Appendix D

Approved Waivers of Seasonal Limitations for TCSB's

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: NW ¼, SE ¼, Section 10, Town 7 N, Range 8 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO PHEASANT BRANCH CR., O(30)-R1

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

- there is suitable habitat at or near the proposed project, or
- there may be an impact on spawning fish or spawning activities.

Or

- there is no suitable habitat at or near the proposed project, or
- there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code are/are not (circle one) necessary to protect fish spawning for the proposed project and I approve/disapprove (circle one) this waiver.

Signed by:

Kurt Welke — Department Fisheries Biologist

1-26-12 — Date

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: NE ¼, SE ¼, Section 15, Town 7 N, Range 8 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO PHEASANT BRANCH CR., O(30)-R2

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

- there is suitable habitat at or near the proposed project, or
- there may be an impact on spawning fish or spawning activities.

Or

- there is no suitable habitat at or near the proposed project, or
- there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code are/~~are not~~ (circle one) necessary to protect fish spawning for the proposed project and I approve/~~disapprove~~ (circle one) this waiver.

Signed by:

Department Fisheries Biologist — Date: 1-26-12

Segment O, Appendix E

Wetland Summary Table and Data Points

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment O
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
O(120)-W1	O-1	None	Mixed wet meadow / shallow marsh / shrub carr community; wet meadow/marsh dominants include reed canary grass, river bulrush and narrow-leaved cattail; shrub carr dominants include willow and common buckthorn shrubs.	Width of wetland in ROW narrowed by about 100 feet from that identified in the Joint Application. Refer to data sheets P-1, P-2 and P-3, and associated mapping in App. E that documents this adjustment.	Photos 1 and 2
O(120)-W2	O-2	None	Wet-mesic meadow in forested opening; dominated by reed canary grass, with box elder seedlings, wild parsnip and Canada thistle less common	---	Photo 3
O(120)-W3	O-2	None	Primarily a wet meadow along waterway dominated by reed canary grass with stinging nettle, aster and Canada thistle less common, honeysuckle shrubs common along the waterway; shrub carr present at west end, dominated by willow shrubs with common buckthorn, honeysuckle and reed canary grass less common; small portion at west end is forested, dominated by quaking aspen; south-central portion is farmed with elements of wet meadow/shallow marsh	---	Photo 4

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment O
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
O(30)-W1	O-5	None	Narrow riparian wetland; dominant vegetation includes reed canary grass, aster, sawtooth sunflower, black willow and sandbar willow, with occasional box elder and cottonwood trees. Portions of wetland and adjacent areas disturbed from recent and on-going development.	---	Photo 5
O(30)-W2	O-5	121930	Narrow riparian wetland; dominant vegetation includes cattail, sawtooth sunflower, smartweed, aster and sandbar willow. Portions of wetland and adjacent areas disturbed from recent and on-going development.	---	Photo 6
O(30)-W3	O-5	121931	Primarily a drainage ditch dominated by cattail; other species observed include reed canary grass, sandbar willow, river bulrush and aster; small patch of *Phragmites* present in this wetland; northern portion of the wetland is mowed; upland ridge present within wetland. Portions of wetland and adjacent areas disturbed from recent and on-going development.	This wetland was extended about 30-40 feet north from that identified in the Joint Application. This adjustment was based on a predominance of hydrophytes in this area.	Photo 7

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment O
American Transmission Company - Rockdale to West Middleton Project

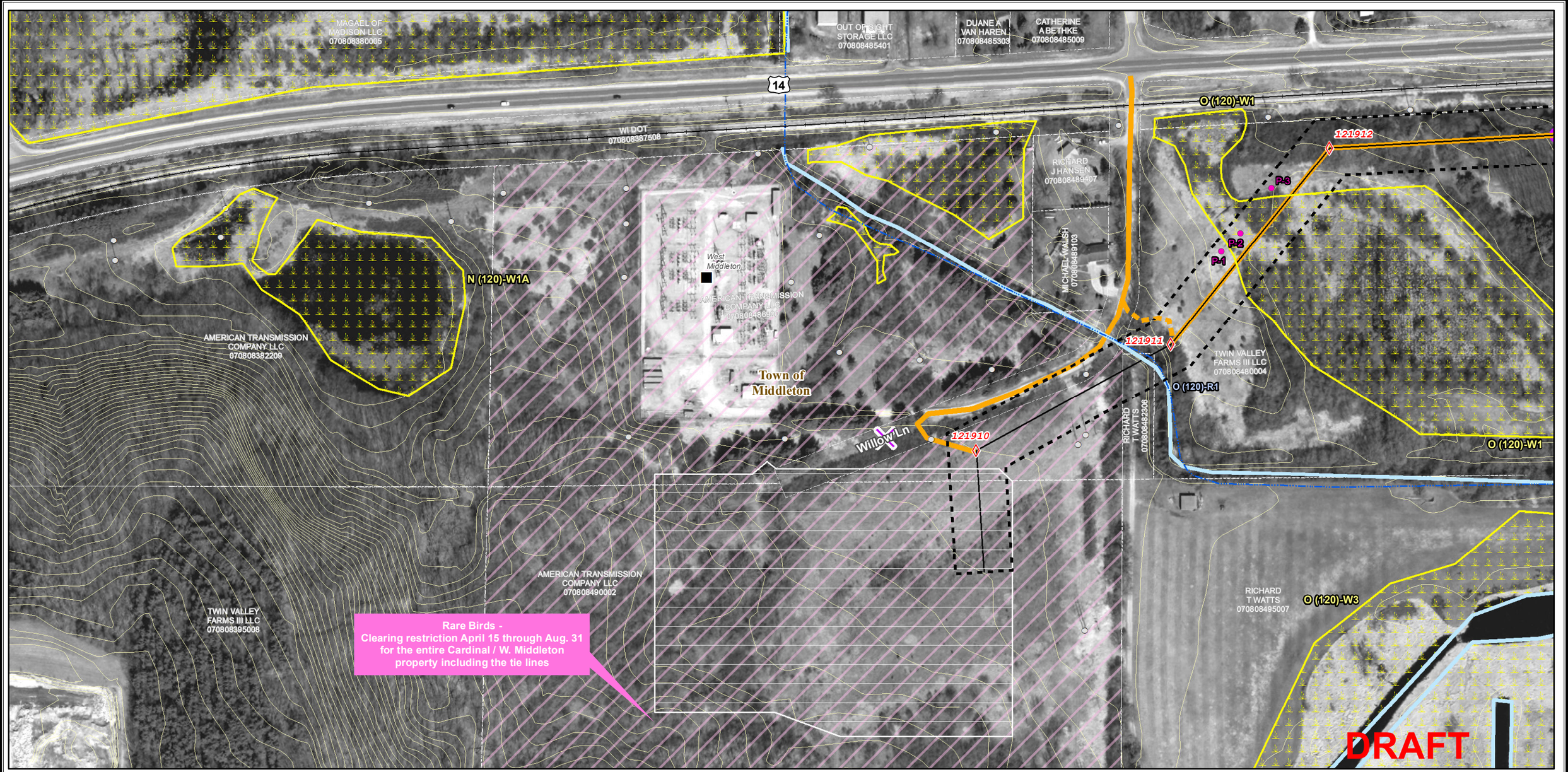
Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
O(0A)-W2	O-5	None	Wet meadow within highway interchange dominated primarily by reed canary grass	This wetland was identified after submittal of the Joint Application; this feature may have been created by increased stormwater from recent developments. Refer to data sheets P-4 and P-5, and associated mapping in App. E that documents this adjustment.	Photo 8
O(0A)-W3	O-5	None	Wet meadow / shallow marsh within highway interchange; dominants include cattail and reed canary grass	This wetland was identified after submittal of the Joint Application; this feature may have been created by increased stormwater from recent developments. Refer to data sheets P-6 and P-7, and associated mapping in App. E that documents this adjustment.	Photo 9
O(30)-W7	O-6	None	Narrow wetland that occurs at western edge of ROW between RR tracks and Terrace Ave; dominants within the ROW include cattail and jewelweed	---	Photo 10
O(30)-W8	O-6	None	Wet meadow dominated by aster, goldenrod, fleabane and Kentucky bluegrass within the ROW	---	Photo 11

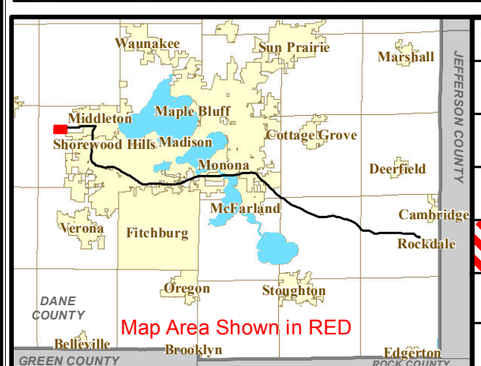
Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment O
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
O(0A)-W4	O-6	None	Wet meadow / shallow marsh within highway interchange; dominants include reed canary grass, cattail and smartweed	This wetland was expanded from that identifed in the Joint Application, expansion occurred near culvert discharge. Refer to data sheets P-8 and P-9, and associated mapping in App. E that documents this adjustment.	Photo 12
O(30)-W4	O-7 and O-8	None	Wet meadow dominated by reed canary grass along narrow waterway; a portion of this wetland is a narrow drainage ditch adjacent to west edge of ROW	This wetland was slightly expanded at the northern end from that identified in the Joint Application. Refer to data sheets P-10 and P-11, and associated mapping in App. E that documents this adjustment. In addition, this feature extended south to wetland O(30)-W4a in the Joint Application; however an approximate 800-foot stretch of this feature was culverted underground to accommodate parking lot expansion.	Photo 13
O(30)-W4a	O-8	None	Roadside drainage ditch dominated primarily by cattail; other observed species include blue vervain, smartweed and *Bidens*	refer to "Other Comments" section for O(30)-W4	Photo 14

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment O
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
O(30)-W5	---	---	---	This area was identified as wetland in the Joint Application (from off-site evaluation) but was determined to be upland based on recent field evaluation. Refer to data sheet P-12 and associated mapping in App. E that documents this adjustment.	---
O(0A)-W1	O-11 and O-12	None	This feature is a stormwater swale dominated by cattail with a fringe of reed canary grass	---	Photo 15
O(30)-W6	O-14 and O-15	121982	This feature within the ROW is primarly a drainage ditch along the Beltline Highway; the west end is a stormwater drainage channel with narrow wetland fringe, dominants include sandbar willow, reed canary grass and box elder; eastern half of ditch is dominated by reed canrary grass, river bulrush and cattail which drains to O(30)-R3; two existing culverted crossings are present within this feature; upland woodland in southern part of ROW is degraded with fill piles common	The boundary of this feature was slightly adjusted from that identified in the Joint Application based on recent field review. Refer to data sheets P-13 and P-14, and associated mapping in App. E that documents this adjustment.	Photos 16 and 17





WETLAND CONSTRUCTION METHOD

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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS PLAN

N

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

January 13, 2012

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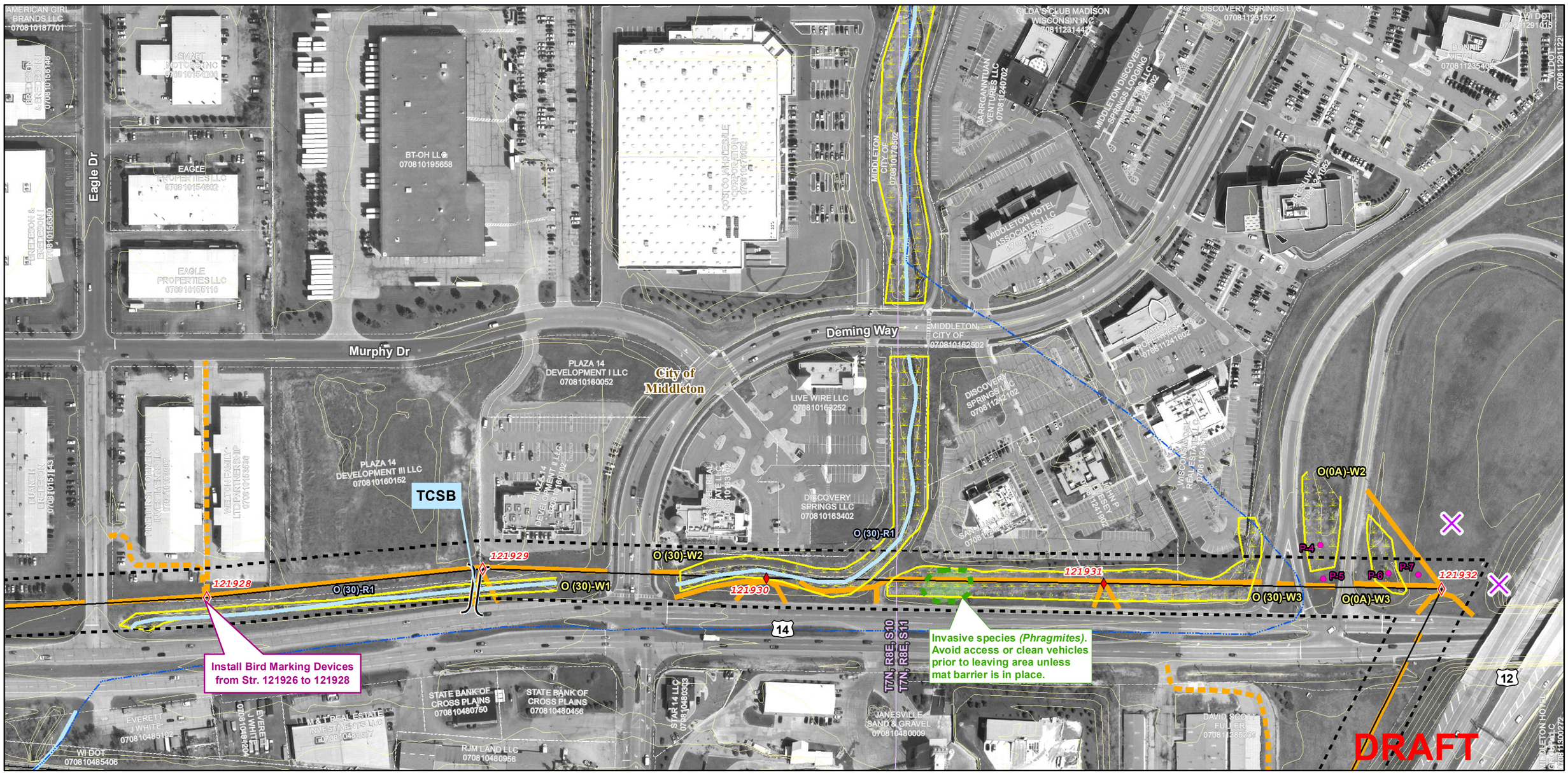

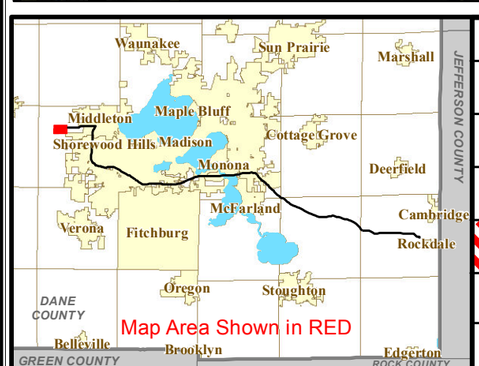

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ENVIRONMENTAL ACCESS PLAN

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January 13, 2012

Orthophotography: 2010 FlyDane
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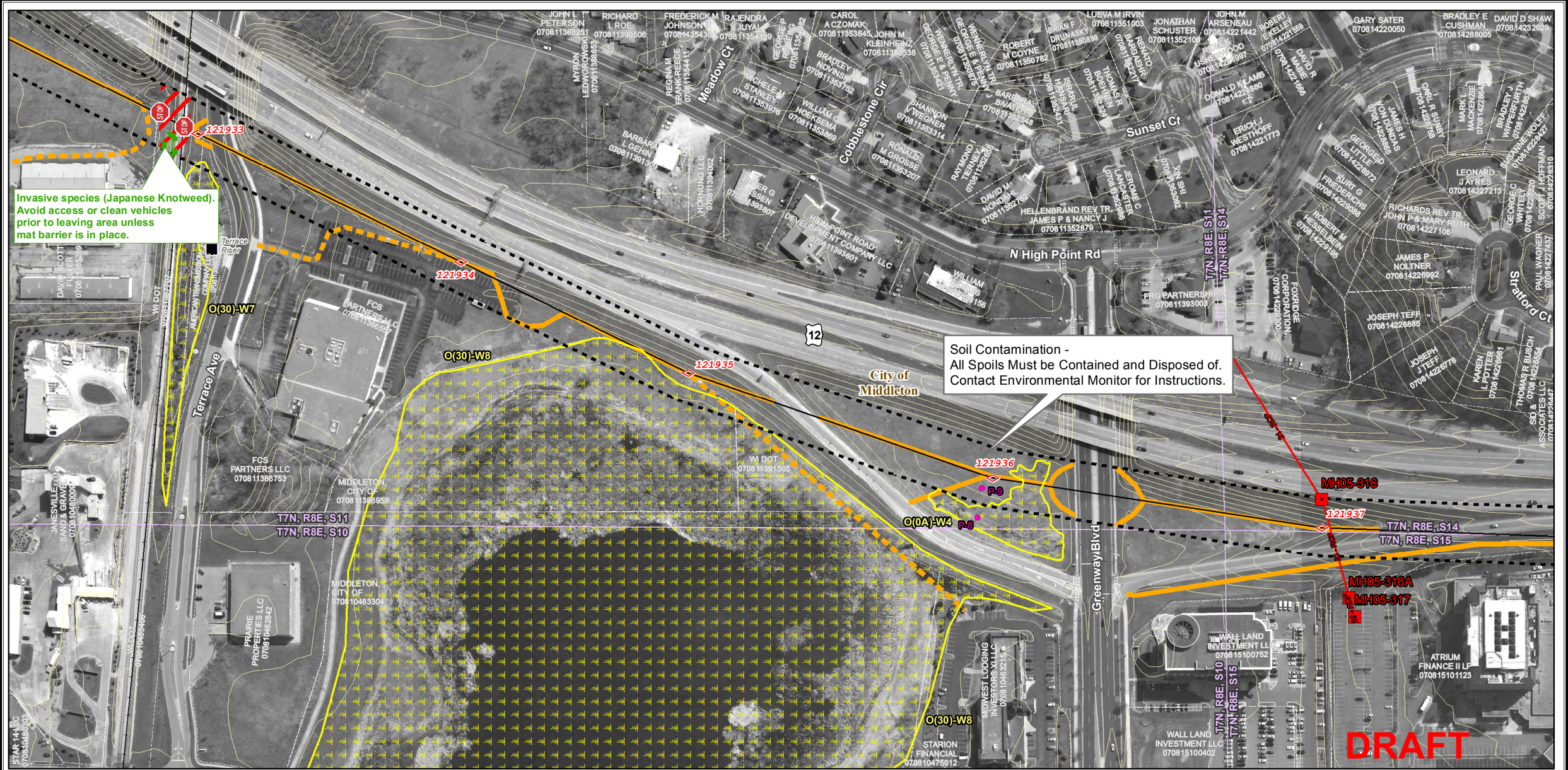

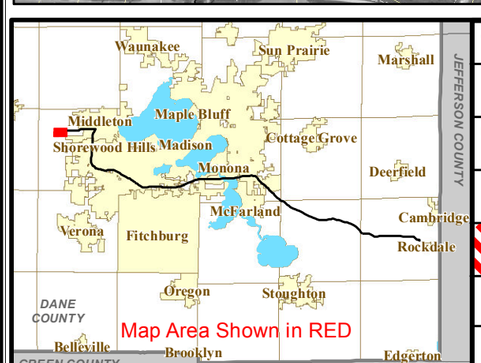

WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
  Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- STOP - NO VEHICLE ACCESS
  FOOT TRAFFIC ONLY
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way

* Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

- Existing Pole
- Existing Substation
- *Proposed Pole*
- *Proposed Pole in Wetland*
- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)

- **Approximate wire set up area (~60 ft. x 200 ft.)**
- 200 — Topographic Line (Elevation)
- Property Line
  Shown with Parcel Number and Owner Name
- Protected or Sensitive Resource - Construction Technique Protocol Noted
- Invasive Species Protocol
  Species Type Noted on Map

- MMSD Structure
  Only on segments O, H, and B
- MMSD Underground Sewer Line
  Only on segments O, H, and B
- WDNR Hydrology
  - *Intermittent Stream*
  - *Perennial Stream*
- Waterway
- Wetland
- Wetland Sample Point

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010. The information presented in this map document is advisory and is intended for reference purposes only. ATC owned and operated facility locations are approximate.

ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS PLAN

N

0 100 200
Feet

ATC — AMERICAN TRANSMISSION COMPANY

January 13, 2012

Orthophotography: 2010 FlyDane
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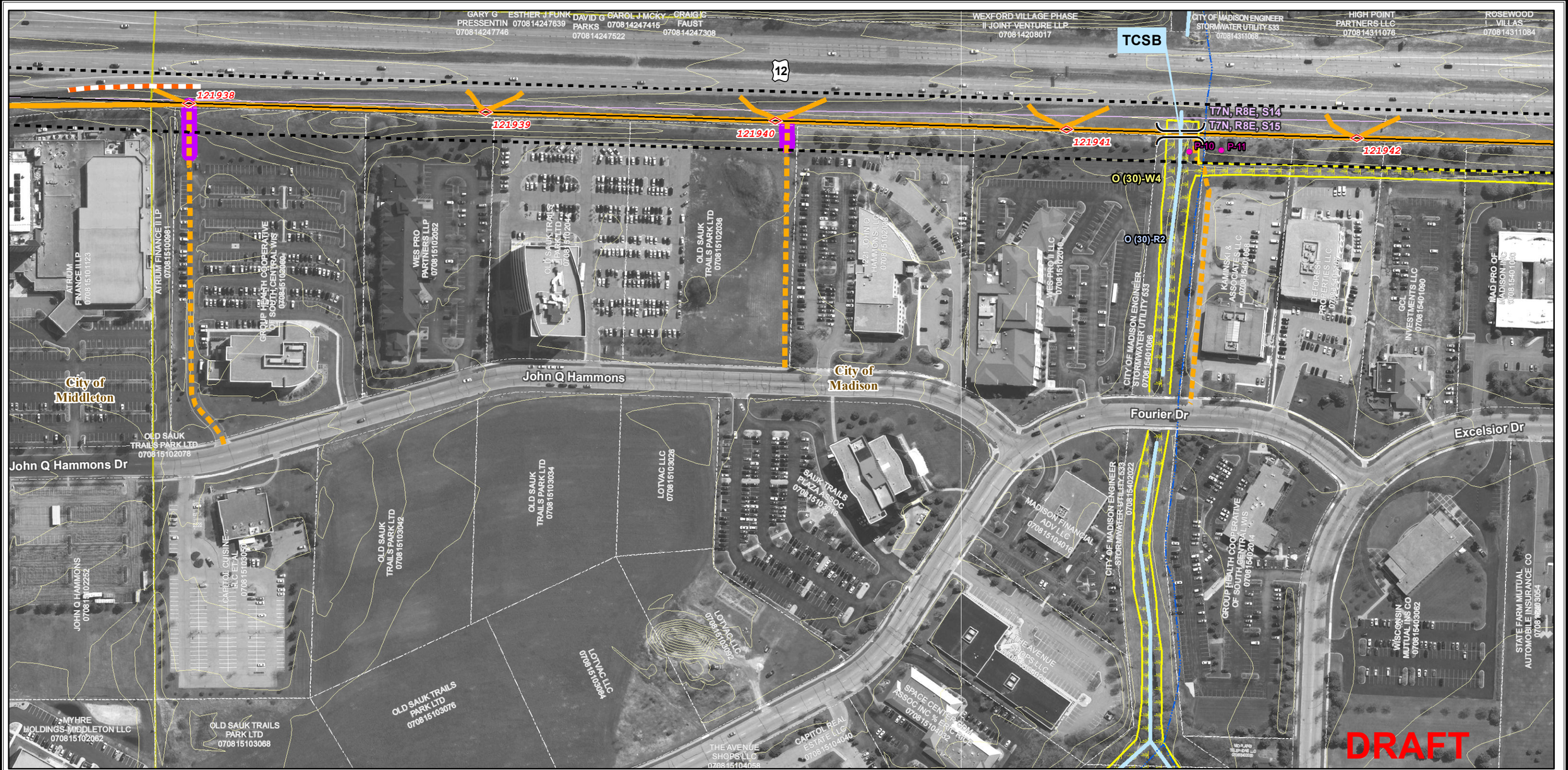

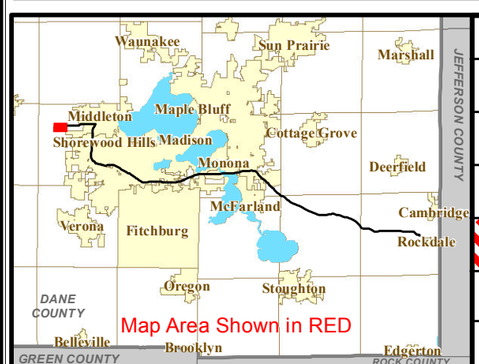

WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
  Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- STOP - NO VEHICLE ACCESS
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- Graded Construction Access and Structure Pads
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- Existing Pole
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- Proposed Pole in Wetland
- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)
- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 — Topographic Line, *Elevation*
- Property Line, Shown with Parcel Number and Owner Name
- Protected or Sensitive Resource - *Construction Technique Protocol Noted*
- Invasive Species Protocol, *Species Type Noted on Map*
- MMSD Structure, Only on segments O, H, and B
- MMSD Underground Sewer Line, Only on segments O, H, and B
- WDNR Hydrology — *Intermittent Stream*, *Perennial Stream*
- Waterway
- Wetland
- Wetland Sample Point

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010. The information presented in this map document is advisory and is intended for reference purposes only. ATC owned and operated facility locations are approximate.

ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS PLAN

N

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

January 13, 2012

Orthophotography: 2010 FlyDane
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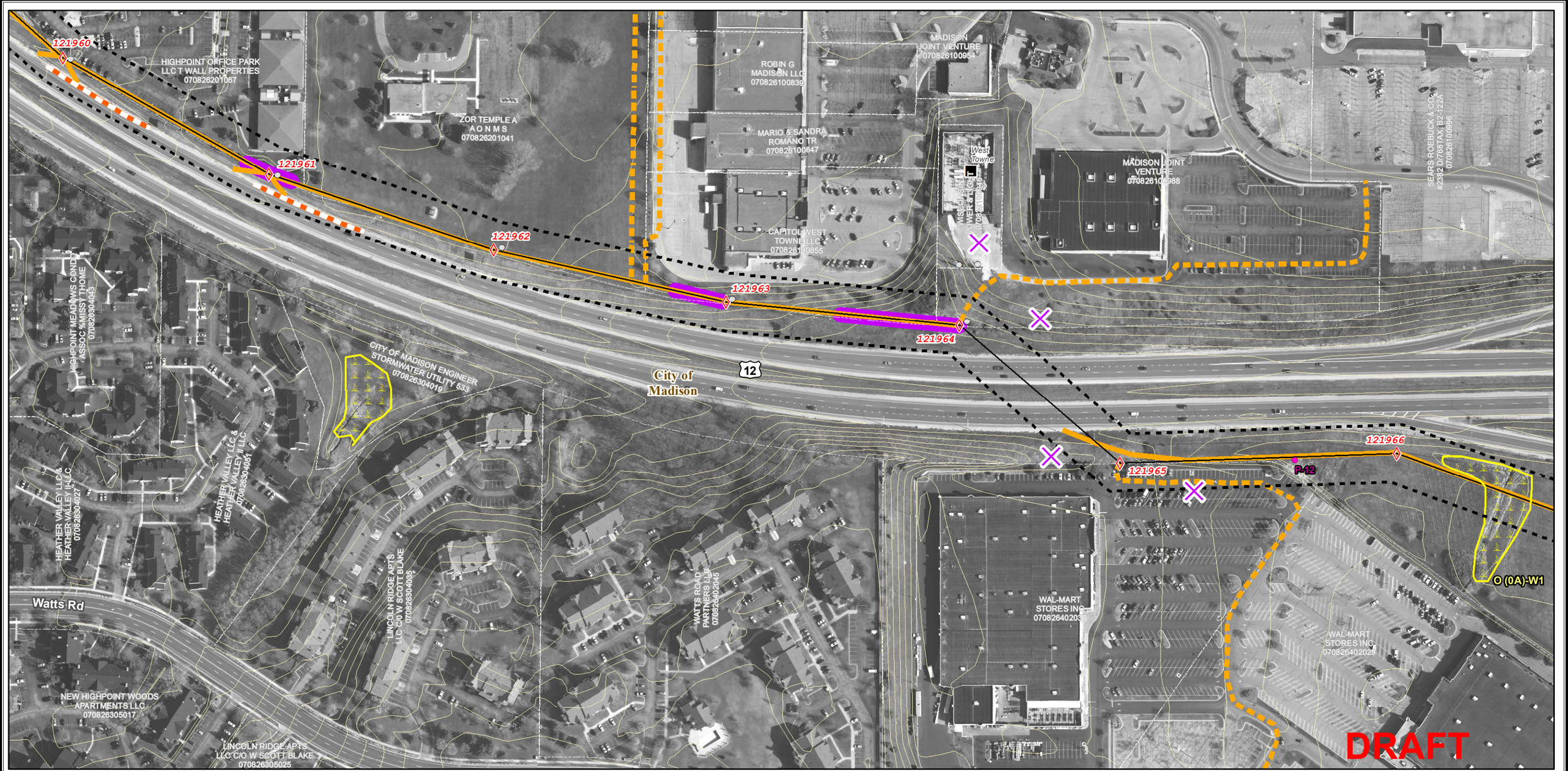

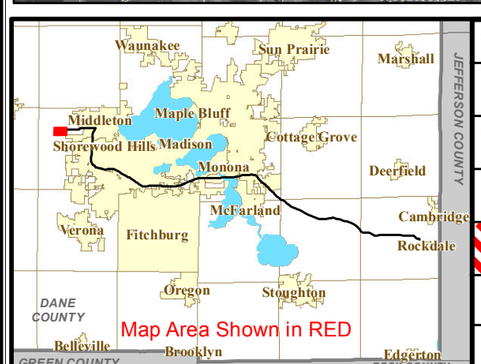

WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline (CT 1 - No Special Technique Needed)
- Vehicle Construction Access / Potential Vehicle Constr. Access
- TCSB — Temporary Clear Span Bridge
- STOP - NO VEHICLE ACCESS FOOT TRAFFIC ONLY
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way

*Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

- Existing Pole ■ Existing Substation
- Proposed Pole
- Proposed Pole in Wetland
- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)
- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 Topographic Line — Elevation
- Property Line — Shown with Parcel Number and Owner Name
- Protected or Sensitive Resource - Construction Technique Protocol Noted
- Invasive Species Protocol — Species Type Noted on Map
- MMSD Structure — Only on segments O, H, and B
- MMSD Underground Sewer Line — Only on segments O, H, and B
- WDNR Hydrology: Intermittent Stream, Perennial Stream
- Waterway
- Wetland
- Wetland Sample Point

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010.
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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

January 13, 2012

Orthophotography: 2010 FlyDane
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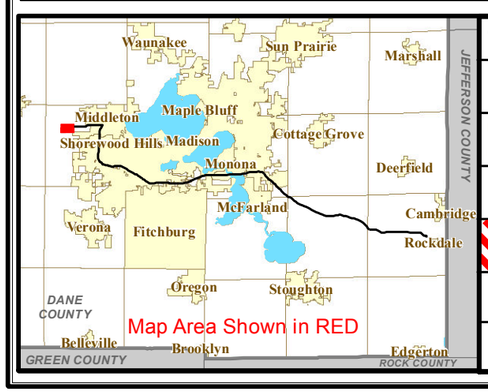

WETLAND CONSTRUCTION METHOD

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- Proposed Cardinal Substation
- Proposed Guardrail: Minor grading and / or fill may be required at these locations. (Refer to Erosion Control Plan)

- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 — Topographic Line, Elevation
- Property Line
  Shown with Parcel Number and Owner Name
- Protected or Sensitive Resource - Construction Technique Protocol Noted
- Invasive Species Protocol
  Species Type Noted on Map

- MMSD Structure
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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

January 13, 2012

Orthophotography: 2010 FlyDane
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WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	10/24/11
Applicant:	ATC			County:	Dane
Investigator #1:	Funk, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Wacousta silty clay loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	Side slope	Local Relief:	Side slope	Sample Point:	P-1
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Datum: N/A	Community ID: Old field
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)			☑ Yes ☐ No	Section:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?		Are normal circumstances present?		Township:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?		☑ Yes ☐ No		Range:	-- Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☑ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Area is comprised of a fallow field with old field vegetation

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑)**:**

Primary:

- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:

- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes ☑ No	Depth:	>18	(in.)
Saturation Present?	☐ Yes ☑ No	Depth:	>18	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Wacousta silty clay loam — Series Drainage Class: very poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	8	1	10YR 2/2	100	--	--	--	--	--	silt loam
8	14	2	10YR 3/2	100	--	--	--	--	--	silt loam
14	18	3	10YR 3/3	100	distinct	10YR 4/4	20	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
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NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)**:**

- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]

- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☑ No

Remarks: Transition between Wacousta and adjacent McHenry soil map units; redox within the brown subsurface horizon at 14"

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-1**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*TRIFOLIUM PRATENSE*	25	Y	FACU
2.	*Solidago canadensis*	20	Y	FACU
3.	*BROMUS INERMIS*	20	Y	UPL
4.	*PHALARIS ARUNDINACEA*	20	Y	FACW
5.	*Solidago gigantea*	5	N	FACW
6	*DAUCUS CAROTA*	5	N	UPL
7.	*POA PRATENSIS*	5	N	FAC
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is not met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***25.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	25	x 2 =	50
FAC spp.	5	x 3 =	15
FACU spp.	45	x 4 =	180
UPL spp.	25	x 5 =	125
Total	100 (A)		370 (B)

Prevalence Index = B/A = ***3.700***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☐ Yes	☑ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☑ No

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

Stantec

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O	Stantec Project #: 193700008	Date:	10/24/11
Applicant: ATC		County:	Dane
Investigator #1: Funk, J.	Investigator #2: --	State:	Wisconsin
Soil Unit: Wacousta silty clay loam	NWI/WWI Classification: ---	Wetland ID:	O(120)-W1
Landform: depression	Local Relief: swale	Sample Point:	P-2
Slope (%): N/A Latitude: N/A	Longitude: N/A Datum: N/A	Community ID:	Wet meadow
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)	☑ Yes ☐ No	Section:	--
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?	Are normal circumstances present?	Township:	--
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?	☑ Yes ☐ No	Range: --	Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☑ Yes ☐ No
Wetland Hydrology Present?	☑ Yes ☐ No	**Is This Sampling Point Within A Wetland?**	☑ **Yes** ☐ **No**

Remarks: Swale

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☐ A1 - Surface Water
- ☑ A2 - High Water Table
- ☑ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☑ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☑ Yes ☐ No	Depth:	14	(in.)
Saturation Present?	☑ Yes ☐ No	Depth:	10	(in.)

Wetland Hydrology Present? ☑ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is met. Areas of saturation at the surface visible within the wetland area.

SOILS

Map Unit Name: Wacousta silty clay loam — Series Drainage Class: very poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☑ Yes ☐ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Mottles Color (Moist)		Mottles %	Type	Location	Texture (e.g. clay, sand, loam)
0	14	1	10YR	2/1	100	--	--	--	--	--	silt loam
14	18	2	10YR	3/1	90	distinct	10YR 4/4	10	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
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NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☑ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Corresponds to Wacousta soil series

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: O(120)-W1 Sample Point **P-2**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	*Ulmus americana*	10	Y	FACW
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	10		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	*RHAMNUS FRANGULA*	10	Y	FAC
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	10		

Herb Stratum (Plot size: 2 meter radius)

1.	*PHALARIS ARUNDINACEA*	50	Y	FACW
2.	*TYPHA ANGUSTIFOLIA*	35	Y	OBL
3.	*Schoenoplectus tabernaemontani*	10	N	OBL
4.	*Bolboschoenus fluviatilis*	10	N	OBL
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	105		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	55	x 1 =	55
FACW spp.	60	x 2 =	120
FAC spp.	10	x 3 =	30
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	125 (A)		205 (B)

Prevalence Index = B/A = ***1.640***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☑ Yes	☐ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	10/24/11
Applicant:	ATC			County:	Dane
Investigator #1:	Funk, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Wacousta silty clay loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	hillslope	Local Relief:	shoulder	Sample Point:	P-3
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Meadow
				Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☑ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Area is comprised of a meadow significantly higher than adjacent wetland area.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes ☑ No	Depth:	>18	(in.)
Saturation Present?	☐ Yes ☑ No	Depth:	>18	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Wacousta silty clay loam — Series Drainage Class: very poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	10	1	10YR 2/2	100	--	--	--	--	sandy loam
10	14	2	10YR 3/2	100	--	--	--	--	sandy loam
14	18	3	10YR 4/4	100	--	--	--	--	loamy sand, gravelly
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☑ No

Remarks: Does not correspond to Wacousta soils

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-3**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*POA PRATENSIS*	35	Y	FAC
2.	*Solidago canadensis*	15	Y	FACU
3.	*BROMUS INERMIS*	15	Y	UPL
4.	*DAUCUS CAROTA*	10	N	UPL
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	75		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is not met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***33.3%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	35	x 3 =	105
FACU spp.	15	x 4 =	60
UPL spp.	25	x 5 =	125
Total	75 (A)		290 (B)

Prevalence Index = B/A = ***3.867***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☐ Yes	☑ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☑ No

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Orion silt loam	NWI/WWI Classification:	---	Wetland ID:	O(0A)-W2
Landform:	depression	Local Relief:	swale	Sample Point:	P-4
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Wet meadow
				Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☑ Yes ☐ No
Wetland Hydrology Present?	☑ Yes ☐ No	Is This Sampling Point Within A Wetland?	☑ **Yes** ☐ **No**

Remarks: Depressional area within highway interchange

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐)**:**

Primary:
- ☐ A1 - Surface Water
- ☑ A2 - High Water Table
- ☑ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☑ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☑ No	Depth: ---	(in.)
Water Table Present?	☑ Yes	☐ No	Depth: 10	(in.)
Saturation Present?	☑ Yes	☐ No	Depth: surf.	(in.)

Wetland Hydrology Present? ☑ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is met.

SOILS

Map Unit Name: Orion silt loam — Series Drainage Class: poorly to somewhat poorly

Taxonomy (Subgroup): Aquic Udifluvents — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Mottles Color (Moist)		Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	18+	1	10YR	2/1	80	--	--	--	--	--	muck
--	--	--	10YR	3/1	20	distinct	7.5YR 4/4	5	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)**:**
- ☑ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☑ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Hydric soil criterion is met

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: O(0A)-W2 Sample Point **P-4**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.				
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*PHALARIS ARUNDINACEA*	100	Y	FACW
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	100	x 2 =	200
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	100 (A)		200 (B)

Prevalence Index = B/A = ***2.000***

Hydrophytic Vegetation Indicators:

☑ Yes	☐ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☑ Yes	☐ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

All three wetland criteria are met; area considered to be wetland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Orion silt loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	Disturbed interchange area	Local Relief:	Slight slope	Sample Point:	P-5
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Datum: N/A	Community ID: Upland meadow
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)			☑ Yes ☐ No	Section:	--
Are Vegetation ☐ , Soil ☑, or Hydrology ☐ significantly disturbed?		Are normal circumstances present?		Township:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?		☑ Yes ☐ No		Range:	-- Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☑ No	Hydric Soils Present?	☑ Yes ☐ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Occurs within highway interchange area, slightly elevated from associated P-4

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑)**:**

Primary:

- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:

- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes ☑ No	Depth:	>20	(in.)
Saturation Present?	☐ Yes ☑ No	Depth:	>20	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Orion silt loam — Series Drainage Class: poorly to somewhat poorly

Taxonomy (Subgroup): Aquic Udifluvents — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Mottles Color (Moist)		Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	4	1	10YR	2/2	100	--	--	--	--	--	silt loam
4	12	2	10YR	2/1	70	--	--	--	--	--	silty clay loam
--	--	--	10YR	3/1	30	distinct	7.5YR 4/4	10	C	M	silty clay loam
12	20+	3	10YR	2/2	100	distinct	7.5YR 4/4	1	C	M	silt loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)**:**

- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☑ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]

- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Horizon 2 with rock/gravel present, likely disturbed from interchange construction; will consider the soil to be hydric, but soil characteristics likely a remnant condition

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-5**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*POA PRATENSIS*	40	Y	FAC
2.	*CIRSIUM ARVENSE*	40	Y	FACU
3.	*FESTUCA PRATENSIS*	20	Y	FACU
4.	*PHALARIS ARUNDINACEA*	<1	N	FACW
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is not met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***33.3%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	40	x 3 =	120
FACU spp.	60	x 4 =	240
UPL spp.	0	x 5 =	0
Total	100 (A)		360 (B)

Prevalence Index = B/A = ***3.600***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☐ Yes	☑ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☑ No

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

Stantec

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O   Stantec Project #: 193700008   Date: 12/19/11
Applicant: ATC   County: Dane
Investigator #1: Ihrig, J.   Investigator #2: --   State: Wisconsin
Soil Unit: Orion silt loam   NWI/WWI Classification: ---   Wetland ID: O(0A)-W3
Landform: depression   Local Relief: swale   Sample Point: P-6
Slope (%): N/A   Latitude: N/A   Longitude: N/A   Datum: N/A   Community ID: shallow marsh
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No   Section: --
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?   Are normal circumstances present?   Township: --
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?   ☑ Yes ☐ No   Range: --   Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No   Hydric Soils Present? ☑ Yes ☐ No
Wetland Hydrology Present? ☑ Yes ☐ No   Is This Sampling Point Within A Wetland? ☑ **Yes** ☐ **No**

Remarks: Drainage swale within highway interchange

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☑ A1 - Surface Water
- ☑ A2 - High Water Table
- ☑ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☑ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☑ Yes	☐ No	Depth:	1	(in.)
Water Table Present?	☑ Yes	☐ No	Depth:	surf.	(in.)
Saturation Present?	☑ Yes	☐ No	Depth:	surf.	(in.)

Wetland Hydrology Present? ☑ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is met.

SOILS

Map Unit Name: Orion silt loam   Series Drainage Class: poorly to somewhat poorly
Taxonomy (Subgroup): Aquic Udifluvents   Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Mottles Color (Moist)		Mottles %	Type	Location	Texture (e.g. clay, sand, loam)
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed)   Type: N/A   Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Due to vegetation and hydrology observations, did not evaluate soils. Presumed to be hydric.

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: O(0A)-W3 Sample Point **P-6**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.				
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Typha latifolia*	90	Y	OBL
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	90		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	90	x 1 =	90
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	90 (A)		90 (B)

Prevalence Index = B/A = ***1.000***

Hydrophytic Vegetation Indicators:

- ☑ Yes ☐ No Rapid Test for Hydrophytic Vegetation
- ☑ Yes ☐ No Dominance Test is > 50%
- ☑ Yes ☐ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☑ No Morphological Adaptations (Explain) *
- ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

All three wetland criteria are met; area considered to be wetland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Stantec

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Orion silt loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	Side slope	Local Relief:	shoulder	Sample Point:	P-7
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Upland meadow
				Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☑, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☑ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Occurs within highway interchange, is several feet higher than adjacent P-6

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes ☑ No	Depth:	>10	(in.)
Saturation Present?	☐ Yes ☑ No	Depth:	>10	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Orion silt loam — Series Drainage Class: poorly to somewhat poorly

Taxonomy (Subgroup): Aquic Udifluvents — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	4	1	10YR 2/2	100	--	--	--	--	sandy loam
4	10+	2	10YR 4/4	100	--	--	--	--	loamy sand
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: Rock/gravel Depth: 10 in.

Hydric Soil Present? ☐ Yes ☑ No

Remarks: Rocks/gravel in Horizon 2, refusal at 10 inches; disturbance likely from interchange construction

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-7**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*POA PRATENSIS*	60	Y	FAC
2.	*BROMUS INERMIS*	20	Y	UPL
3.	*FESTUCA PRATENSIS*	20	Y	FACU
4.	*PHALARIS ARUNDINACEA*	<1	N	FACW
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is not met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***33.3%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	60	x 3 =	180
FACU spp.	20	x 4 =	80
UPL spp.	20	x 5 =	100
Total	100 (A)		360 (B)

Prevalence Index = B/A = ***3.600***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☐ Yes	☑ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☑ No

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Granby loamy sand	NWI/WWI Classification:	---	Wetland ID:	O(0A)-W4
Landform:	Depressional	Local Relief:	swale	Sample Point:	P-8
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Datum: N/A	Community ID: Wet meadow/marsh
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)				☑ Yes ☐ No	Section: --
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?				Are normal circumstances present?	Township: --
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?				☑ Yes ☐ No	Range: -- Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☑ Yes ☐ No
Wetland Hydrology Present?	☑ Yes ☐ No	Is This Sampling Point Within A Wetland?	☑ **Yes** ☐ **No**

Remarks: Drainage swale within highway interchange

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐)**:**

Primary:

- ☑ A1 - Surface Water
- ☑ A2 - High Water Table
- ☑ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:

- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☑ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☑ Yes ☐ No	Depth:	2	(in.)
Water Table Present?	☑ Yes ☐ No	Depth:	surf.	(in.)
Saturation Present?	☑ Yes ☐ No	Depth:	surf.	(in.)

Wetland Hydrology Present? ☑ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is met.

SOILS

Map Unit Name: Granby loamy sand — Series Drainage Class: very poorly to poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Mottles Color (Moist)		Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	2	1	10YR	2/1	100	--	--	--	--	--	silt loam
2	10+	2	10YR	3/1	100	distinct	7.5YR 4/4	10	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)**:**

- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☑ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]

- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Hydric soil criterion is met

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: O(0A)-W4 Sample Point **P-8**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Typha latifolia*	60	Y	OBL
2.	*PHALARIS ARUNDINACEA*	40	Y	FACW
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	60	x 1 =	60
FACW spp.	40	x 2 =	80
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	100 (A)		140 (B)

Prevalence Index = B/A = ***1.400***

Hydrophytic Vegetation Indicators:

☑ Yes	☐ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☑ Yes	☐ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

All three wetland criteria are met; area considered to be wetland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Granby loamy sand	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	Side slope	Local Relief:	shoulder	Sample Point:	P-9
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Upland meadow
				Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☑, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☑ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Occurs within highway interchage

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes ☑ No	Depth:	>10	(in.)
Saturation Present?	☐ Yes ☑ No	Depth:	>10	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Granby loamy sand — Series Drainage Class: very poorly to poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	3	1	10YR 2/1	100	--	--	--	--	silt loam
3	10+	2	10YR 3/4	50	--	--	--	--	si lo, rocks/gravel
--	--	--	10YR 3/1	50	--	--	--	--	si lo, rocks/gravel
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: rock Depth: 10 in.

Hydric Soil Present? ☐ Yes ☑ No

Remarks: Disturbed matrix, appears to be fill from highway interchange construction

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-9**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*BROMUS INERMIS*	100	Y	UPL
2.	*CIRSIUM ARVENSE*	<5	N	FACU
3.	*Oenothera biennis*	<5	N	FACU
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is not met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***0.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	100	x 5 =	500
Total	100 (A)		500 (B)

Prevalence Index = B/A = ***5.000***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☐ Yes	☑ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☑ No

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Radford silt loam	NWI/WWI Classification:	---	Wetland ID:	O(30)-W4
Landform:	depression	Local Relief:	drainage swale	Sample Point:	P-10
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Wet meadow
			Datum: N/A	Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☑ Yes ☐ No
Wetland Hydrology Present?	☑ Yes ☐ No	Is This Sampling Point Within A Wetland?	☑ **Yes** ☐ **No**

Remarks: Depressional area along drainage feature

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐)**:**

Primary:
- ☐ A1 - Surface Water
- ☑ A2 - High Water Table
- ☑ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☑ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☑ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☑ No	Depth: ---	(in.)
Water Table Present?	☑ Yes	☐ No	Depth: surf.	(in.)
Saturation Present?	☑ Yes	☐ No	Depth: surf.	(in.)

Wetland Hydrology Present? ☑ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is met

SOILS

Map Unit Name: Radford silt loam — Series Drainage Class: somewhat poorly

Taxonomy (Subgroup): Fluvaquentic Hapludolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	4	1	10YR 2/1	100	--	--	--	--	silt loam
4	17+	2	10YR 3/2	60	--	--	--	--	sandy loam
--	--	--	10YR 3/1	40	distinct	7.5YR 4/4	5	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)**:**

- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☑ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]

- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Hydric soil criterion is met

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: O(30)-W4 Sample Point **P-10**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*PHALARIS ARUNDINACEA*	100	Y	FACW
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	100	x 2 =	200
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	100 (A)		200 (B)

Prevalence Index = B/A = ***2.000***

Hydrophytic Vegetation Indicators:

- ☑ Yes ☐ No Rapid Test for Hydrophytic Vegetation
- ☑ Yes ☐ No Dominance Test is > 50%
- ☑ Yes ☐ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☑ No Morphological Adaptations (Explain) *
- ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

All three wetland criteria are met; area considered to be wetland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Stantec

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Radford silt loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	Side slope	Local Relief:	shoulder	Sample Point:	P-11
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Upland meadow
			Datum: N/A	Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Approximately 6-7 ft higher than adjacent point P-10

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes ☑ No	Depth:	>20	(in.)
Saturation Present?	☐ Yes ☑ No	Depth:	>20	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Radford silt loam — Series Drainage Class: somewhat poorly

Taxonomy (Subgroup): Fluvaquentic Hapludolls — Field Observations Confirm Mapped Type? ☑ Yes ☐ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	7	1	10YR 3/2	100	--	--	--	--	silt loam
7	20+	2	10YR 3/3	100	--	--	--	--	silt loam
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: NA Depth: NA

Hydric Soil Present? ☐ Yes ☑ No

Remarks: Hydric soil criteria not met

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-11**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*DAUCUS CAROTA*	45	Y	UPL
2.	*POA PRATENSIS*	45	Y	FAC
3.	*PHALARIS ARUNDINACEA*	<5	N	FACW
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	90		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***50.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	45	x 3 =	135
FACU spp.	0	x 4 =	0
UPL spp.	45	x 5 =	225
Total	90 (A)		360 (B)

Prevalence Index = B/A = ***4.000***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Remarks: Predominance of hydrophytes present due to non-dominant species; wetland vegetation criteria is met

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Stantec

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	10/27/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Radford silt loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	near road right of way	Local Relief:	gently sloping	Sample Point:	P-12
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Community ID:	Upland meadow
			Datum: N/A	Section:	--
				Township:	--
				Range:	-- Dir: --

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No

Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Occurs in narrow strip between road ROW and large commercial development (parking lot)

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☑ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☑ No	Depth: ---	(in.)
Water Table Present?	☐ Yes	☑ No	Depth: >24	(in.)
Saturation Present?	☐ Yes	☑ No	Depth: >24	(in.)

Wetland Hydrology Present? ☐ Yes ☑ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Radford silt loam — Series Drainage Class: somewhat poorly

Taxonomy (Subgroup): Fluvaquentic Hapludolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	20	1	10YR 3/3	100	--	--	--	--	silt loam
20	24+	2	10YR 4/4	100	--	--	--	--	fine sandy loam
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: NA Depth: NA

Hydric Soil Present? ☐ Yes ☑ No

Remarks: Hydric soil criterion not met

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-12**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	*LONICERA X BELLA*	10	Y	FACU
2.	*Acer negundo*	10	Y	FACW
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	20		

Herb Stratum (Plot size: 2 meter radius)

1.	*PHALARIS ARUNDINACEA*	70	Y	FACW
2.	*CIRSIUM ARVENSE*	15	N	FACU
3.	*CORONILLA VARIA*	10	N	NI
4.	*Solidago canadensis*	5	N	FACU
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	100		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***66.7%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	80	x 2 =	160
FAC spp.	0	x 3 =	0
FACU spp.	30	x 4 =	120
UPL spp.	10	x 5 =	50
Total	120 (A)		330 (B)

Prevalence Index = B/A = ***2.750***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☑ Yes	☐ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Remarks: Wetland vegetation criteria is met. However, reed canary grass is dominant only in this localized area, which is upslope of other adjacent areas. These topographically lower areas are dominated by crown vetch, Canada thistle, Canada goldenrod and honeysuckle.

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Sable silty clay loam	NWI/WWI Classification:	---	Wetland ID:	O(30)-W6
Landform:	depressional	Local Relief:	relatively flat	Sample Point:	P-13
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Datum: N/A	Community ID: Forested wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)			☑ Yes ☐ No	Section:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?		Are normal circumstances present?		Township:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?		☑ Yes ☐ No		Range:	-- Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☑ Yes ☐ No
Wetland Hydrology Present?	☑ Yes ☐ No	Is This Sampling Point Within A Wetland?	☑ **Yes** ☐ **No**

Remarks: Depressional area adjacent to pond

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐)**:**

Primary:

- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☑ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:

- ☐ B6 - Surface Soil Cracks
- ☑ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☑ No	Depth:	---	(in.)
Water Table Present?	☐ Yes	☑ No	Depth:	>17	(in.)
Saturation Present?	☑ Yes	☐ No	Depth:	10	(in.)

Wetland Hydrology Present? ☑ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is met

SOILS

Map Unit Name: Sable silty clay loam — Series Drainage Class: poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	4	1	10YR 2/2	100	--	--	--	--	--	silt loam
4	17+	2	10YR 3/1	100	distinct	7.5YR 4/4	5	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)**:**

- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☑ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]

- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☑ Yes ☐ No

Remarks: Hydric soil criterion is met

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: O(30)-W6 Sample Point **P-13**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	*Populus deltoides*	30	Y	FAC
2.	*Acer negundo*	20	Y	FACW
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	50		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	*RHAMNUS CATHARTICA*	50	Y	FACU
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	50		

Herb Stratum (Plot size: 2 meter radius)

1.	*ALLIARIA PETIOLATA*	10	Y	FAC
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	10		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
	Total Cover =	0		

Remarks: Wetland vegetation criteria is met

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***75.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	20	x 2 =	40
FAC spp.	40	x 3 =	120
FACU spp.	50	x 4 =	200
UPL spp.	0	x 5 =	0
Total	110 (A)		360 (B)

Prevalence Index = B/A = ***3.273***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

All three wetland criteria are met; area considered to be wetland

WETLAND DETERMINATION DATA FORM
Northcentral and Northeast Region

Project/Site:	Rockdale-W. Middleton - Seg. O	Stantec Project #:	193700008	Date:	12/19/11
Applicant:	ATC			County:	Dane
Investigator #1:	Ihrig, J.	Investigator #2:	--	State:	Wisconsin
Soil Unit:	Sable silty clay loam	NWI/WWI Classification:	---	Wetland ID:	---
Landform:	side slope	Local Relief:	gently sloping shoulder	Sample Point:	P-14
Slope (%):	N/A	Latitude: N/A	Longitude: N/A	Datum: N/A	Community ID: Upland forest
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)			☑ Yes ☐ No	Section:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ significantly disturbed?		Are normal circumstances present?		Township:	--
Are Vegetation ☐ , Soil ☐, or Hydrology ☐ naturally problematic?		☑ Yes ☐ No		Range:	-- Dir: --

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☑ Yes ☐ No	Hydric Soils Present?	☐ Yes ☑ No
Wetland Hydrology Present?	☐ Yes ☑ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☑ **No**

Remarks: Occurs near the edge of the transmission line ROW

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☑)**:**

Primary:

- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain)

Secondary:

- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

					Wetland Hydrology Present? ☐ Yes ☑ No
Surface Water Present?	☐ Yes	☑ No	Depth: ---	(in.)	
Water Table Present?	☐ Yes	☑ No	Depth: >20	(in.)	
Saturation Present?	☐ Yes	☑ No	Depth: >20	(in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Wetland hydrology criteria is not met

SOILS

Map Unit Name: Sable silty clay loam — Series Drainage Class: poorly

Taxonomy (Subgroup): Typic Endoaquolls — Field Observations Confirm Mapped Type? ☐ Yes ☑ No

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Locaiton: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)	Matrix %	Mottles Color (Moist)	Mottles %	Mottles Type	Mottles Location	Texture (e.g. clay, sand, loam)
0	5	1	10YR 3/2	100	--	--	--	--	silt loam
5	11	2	10YR 4/4	90	--	--	--	--	silt loam
--	--	--	10YR 3/2	10	--	--	--	--	silt loam
11	20+	3	10YR 3/3	90	--	--	--	--	silt loam
--	--	--	10YR 3/2	10	--	--	--	--	silt loam
--	--	--	-- --	--	--	--	--	--	--
--	--	--	-- --	--	--	--	--	--	--
--	--	--	-- --	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑)**:**

- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (**LRR R, MLRA 149B**)
- ☐ S8 - Polyvalue Below Surface (**LRR R, MLRA 149B**)
- ☐ S9 - Thin Dark Surface (**LRR R, MLRA 149B**)
- ☐ F1 - Loamy Muck Mineral (**LRR K, L**)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]

- ☐ A10 - 2 cm Muck (**LRR K, L, MLRA149B**)
- ☐ A16 - Coast Prairie Redox (**LRR K, L, R**)
- ☐ S3 - 5cm Mucky Peat of Peat (**LRR K, L, R**)
- ☐ S7 - Dark Surface (**LRR K, L**)
- ☐ S8 - Polyvalue Below Surface (**LRR K, L**)
- ☐ S9 - Thin Dark Surface (**LRR K, L**)
- ☐ F12 - Iron-Manganese Masses (**LRR K, L, R**)
- ☐ F19 - Piedmont Floodplain Soils (**MLRA 149B**)
- ☐ TA6 - Mesic Spodic (**MLRA 144A, 145, 149B**)
- ☐ TF2 - Red Parent Material
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: NA Depth: NA — **Hydric Soil Present?** ☐ Yes ☑ No

Remarks: Some rock/gravel mixed in subsurface layer; fill piles present in this general area (but not at this point); hydric soil criterion not met. This point is in a gently sloped area that is about 5 ft higher than water elevation to the south (ponded area)

WETLAND DETERMINATION DATA FORM

Northcentral and Northeast Region

Project/Site: Rockdale-W. Middleton - Seg. O Wetland ID: --- Sample Point **P-14**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	*Acer negundo*	40	Y	FACW
2.	*ROBINIA PSEUDOACACIA*	40	Y	FACU
3.	*Populus deltoides*	20	Y	FAC
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--

Total Cover = 100

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	*LONICERA X BELLA*	50	Y	FACU
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--

Total Cover = 50

Herb Stratum (Plot size: 2 meter radius)

1.	*ALLIARIA PETIOLATA*	80	Y	FAC
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--

Total Cover = 80

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--

Total Cover = 0

Remarks: Wetland vegetation criteria is met.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***60.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	40	x 2 =	80
FAC spp.	100	x 3 =	300
FACU spp.	90	x 4 =	360
UPL spp.	0	x 5 =	0
Total	230 (A)		740 (B)

Prevalence Index = B/A = ***3.217***

Hydrophytic Vegetation Indicators:

☐ Yes	☑ No	Rapid Test for Hydrophytic Vegetation
☑ Yes	☐ No	Dominance Test is > 50%
☐ Yes	☑ No	Prevalence Index is ≤ 3.0 *
☐ Yes	☑ No	Morphological Adaptations (Explain) *
☐ Yes	☑ No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Additional Remarks:

All three wetland criteria are not met, area is considered to be upland

Segment O, Appendix F

Typical ATC Seed Mixes (see Segment A, Appendix F)