Transportation Effect and Route Evaluation Study

Baron Winds Facility

Towns of Cohocton, Dansville, Fremont, and Wayland
Steuben County, New York
October, 2017

Prepared for:



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1.0 INTRODUCTION

Baron Winds, LLC (a subsidiary of EverPower Wind Holdings, Inc.) [herein referred to as the Applicant] is preparing an Application under Article 10 of the Public Service Law to the New York State Board on Electric Generation Siting and the Environment ("Siting Board") for its major electric generating facility (the "Facility") proposal in Steuben County, New York. This report has been prepared to satisfy relevant portions of the Preliminary Scoping Statement (PSS), specifically Section 2.25 Effect on Transportation and relevant portions of 1001.25 of the Article 10 Regulations.

1.1 PROJECT DESCRIPTION

The proposed Baron Winds Facility is a utility-scale wind project located in Steuben County, New York. Project facilities will be located in four towns: Cohocton, Dansville, Fremont, and Wayland. The total size of the facility will be a maximum of 300 MW. The Regional Facility Location and Facility Area Maps are depicted in Appendix A.

The proposed Facility consists of all activities necessary for the construction and operation of a utility-scale wind project, including the installation and operation of up to 76 utility-scale wind turbines, together with approximately 36 miles of associated collection lines (33 miles below grade and 3 miles above ground), approximately 21.4 miles of access roads, 4 permanent meteorological towers, one operation and maintenance (O&M) building, and 2 temporary construction staging/laydown areas. The Facility will also include the construction of a collection sub-station. The collection substation will be located adjacent to the existing Canandaigua Switching Station, which will be the point of interconnection (POI) substation.

During construction, there will be temporary increases in truck traffic on area roadways served by the Facility. The purpose of this evaluation is to document the existing transportation conditions in the area and identify probable local travel routes, constraints, and proposed improvements. Also this evaluation will contain any school bus routes along proposed haul roads, identification of emergency responders and the routes they will take to the Facility sites, roadway permit and road use agreement requirements, construction vehicle volumes/level of service and airport impacts associated with the Facility.

1.2 METHODOLOGY

The study methodology was developed to address the relevant needs identified in the scoping document and the Article 10 Regulations. A field inventory, photo log, and visual assessment was conducted to evaluate possible travel routes. Sample roadway characteristics and conditions were documented. Representatives were contacted including the Steuben County Deputy Commissioner and Bridge Engineer and the Highway Superintendents from the Towns of Cohocton, Dansville, Fremont, Howard, and Wayland to understand jurisdictional concerns and permit requirements. Research was conducted on wind turbine transportation requirements, and a potential worst-case design vehicle was evaluated to identify possible roadway improvements.

1.3 VEHICLE TYPES

During the Construction phase to build the facilities, there will be some temporary impacts to transportation routes that are needed to reach and travel within the Facility area. These impacts will result from the movement of vehicles involved in the Facility construction. These vehicles and their role in the Facility construction are described below. The exact construction vehicles have not yet been determined, however, it is known that transportation of turbine components and associated construction material involves numerous conventional and specialized transportation vehicles, including:

Wind Turbine Equipment

- Blade Sections Blades are transported on trailers with one blade per vehicle. Blades typically control the length of the design vehicle, and the radius of the curves along the travel route to the site. Specialized transport vehicles are designed with articulating (manual or self-steering) rear axles to allow maneuverability through curves.
- Tower Sections Typically transported in three to four sections depending on the supplier. Towers generally control the height and width of the design vehicle dimensions.
- Nacelle The turbine and related elements are typically the heaviest component transported.
- Hub and Nose Cone Typically transported with one or more of the same element on a vehicle. These elements are not critical elements related to design vehicle dimensions.
- Escort Vehicles Typically a car or pick-up truck.

Construction Equipment and Materials

- Construction of Access Roads Conventional trucks carrying stone and/or gravel and steel rebar.
- Crane For assembly of the wind towers, cranes are transported in sections utilizing up to 16 trucks producing
 numerous trips to the site. Assembled cranes may be crawled between tower sites or dis-assembled to travel
 along the local roads to the next site.
- Concrete trucks for tower foundations and transformer pads.
- Variety of conventional semi-trailers for delivery of substation, turbine and O&M facility components and materials.
- Construction staff and other incidental truck trips.

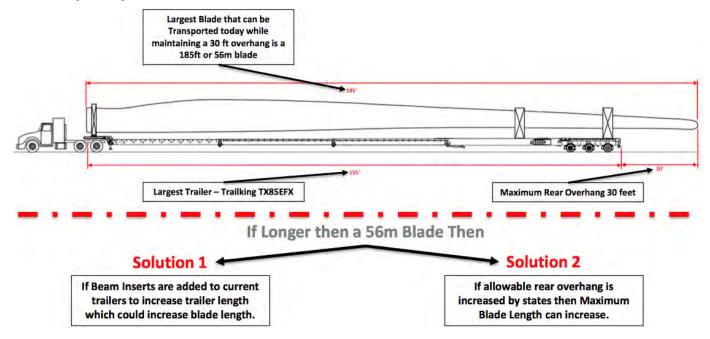
1.4 DESIGN VEHICLE RESEARCH

Transportation of turbine components and associated construction material involves numerous conventional and specialized transportation vehicles. Wind turbine components (such as the tower sections, blade sections and nacelle)

are transported separately. The actual dimensions and specifications of the design vehicles may vary, depending on the specific wind turbine supplier and components. Recognizing that the specific wind turbine supplier has not been determined, several possible suppliers were researched to determine their transportation requirements and potential design criteria for this route analysis. The following table summarizes the blade lengths from several possible turbine suppliers.

Turbine	Turbine Size Blade length					
Supplier	(MW)	Metric	English			
Acciona	3.300	66 m	216.5 ft			
Gamesa	2.625	62 m	203.4 ft			
	3.465	64.5 m	211.6 ft			
GE	3.230	63.7 m	209 ft			
Nordex	3.600	58.5 m	191.9 ft			
	3.900	65.5 m	214.9 ft			
Senvion	3.400	59.8 m	196.2 ft			
	3.600	68.5 m	224.7 ft			
Siemens	2.625	59 m	193.6 ft			
	3.600	63 m	206.7 ft			
Vestas	3.600	61.7 m	202.4 ft			
	3.600	66.7 m	218.8 ft			

This table shows that blade lengths range from 191.9 feet for the 3.6 MW Nordex wind turbine, to 224.7 feet for a 3.6 MW Senvion wind turbine. The minimum turning radius requirements will ultimately be dependent on the wind turbine supplier selected. In this study, a minimum inside radius of 150 feet has been used to model intersection modification scenarios. A 150-foot radius is a conservative design standard used when developing improvements for wind power component delivery and is based on a design vehicle assuming a 155 foot trailer with extended rear axle (outer trailer) as shown in the following drawing.



Design Vehicle Dimensions for Route Planning Purposes. Actual Dimensions will vary.

1.5 REGIONAL DESTINATION ROUTES

The possible designated routes for deliveries of the wind turbine components studied were NYS Route 21, starting at the I-390 Exit 3 interchange just east of the hamlet of Perkinsville and proceeding south; County Route 121, starting at the I-390 Exit 2 interchange just west of the Village of Cohocton and proceeding west; County Route 70, starting at the I-86/NYS Route 17 Exit 35 interchange just north of the hamlet of Howard and proceeding north; then other county roads and local roads connecting NYS Route 21, County Route 121 and County Route 70 to the wind turbine construction site locations. For the purpose of this report, it was assumed that all deliveries will be using I-390 and I-86/NYS Route 17 along with using other state, county, and town roads to access the Facility locations. I-390 and I-86/NYS Route 17 are the largest freeways that are closest to the project site and are the preferred access for large turbine components that will be coming from other states and major cities with ports. When deliveries are close to the Facility area, county and local roads in the Towns of Cohocton, Dansville, Fremont, Howard, and Wayland are to be utilized to reach the Facility sites. This study will review all of the possible delivery routes and construction vehicle transport routes needed for the construction of the Facility.

2.0 ROADWAY ANALYSIS

2.1 TRAFFIC VOLUMES

Existing traffic volume data within the study area was obtained from the NYSDOT Traffic Data Viewer Website online and also updated County and Local Road listings from the NYSDOT Highway Data Services Website. Most of the county roads and all of the state roads had available traffic volume data. The data consists of some segments with total Annual Average Daily Traffic (AADT) and other segments showing AADT for both directions of travel. Most of the local town roads do not have traffic volume data, so estimated volumes, based on the surrounding traffic counts, were added to these roadways. The existing traffic data will be included in the analysis of the traffic capacity Level of Service (LOS) for the delivery/construction vehicle routes during the construction phase. See Appendix B for the Table of Existing Traffic Volumes.

2.2 ACCIDENT DATA

A FOIL request for accident data within the Facility area was sent to the NYSDOT Regional Office in Hornell, NY. Once the information was received, data was available for the State Route, six County Routes and seven local Town Roads that could be used as potential haul roads during the Facility construction. The existing accident data from the NYSDOT Accident Location Information System (ALIS) from September, 2013 to August, 2016 showed that the segment study area of State Route 21 had the most accidents at 91 for the three year study period, while County Route 54 and six of the seven town roads had the least amount of accidents at 1 within the same study period. State Route 21, near the Derevees Road intersection, had one Priority Investigation Location (PIL) in the year 2013 within the 13 mile segment between I-390 and Conderman Road. The accident data from the FOIL

request did not show any Safety Deficient Locations (SDL's) or PIL's on the County Roads. Based on the existing accident data and Annual Average Design Traffic (AADT) for the roadway segments, the annual Accident Rates can be established and compared to the New York Statewide Average Rate which is 2.81 accidents/million vehicle miles (acc/mvm) for 2-lane Rural Arterials (segment and juncture accidents). State Route 21 (from Davis Road to CR 54) and County Route 54 fall below the Statewide Average while State Route 21 (from I-390 to Davis Road), County Route 50, County Route 55, County Route 70, County Route 92 and County Route 121 are above the Statewide Average. The high accident rate along State Route 21 (from I-390 to Davis Road) is due to the high number of animal related accidents, which accounted for 50% of the accident total. The higher accident rates for the five county roads may be attributed to having lower AADT for their segments. At this time, there is no accident rate data available for the seven local town roads because of the lack of traffic volume information. See Appendix C for the Table of Existing Accident Data

2.3 SCHOOL BUS ROUTE INFORMATION

Requests for information was sent to Arkport, Avoca, Hornell City, and Wayland-Cohocton school districts asking for identification of school bus routes, number of buses and pickup/drop off times along the possible haul roads needed for delivery trucks and construction vehicles. All four school districts have responded back with the requested school bus information. The information received has shown that NY 21 will have up to three school buses in the morning and the same number of school buses in the afternoon. All county roads and 11 out of 35 town roads will have one or two school buses for the morning and afternoon commute. The remaining town roads will have no school buses from the various school districts. See Appendix D for the Table of Existing School Bus Routes showing this information.

2.4 EMERGENCY SERVICE RESPONDER INFORMATION

A request containing a map showing suggested emergency response routes to the proposed installations within the Facility area was sent to all of the identified emergency responders (Cohocton, Fremont, Howard, Perkinsville, South Dansville, Wallace, and Wayland volunteer fire departments, Cohocton Valley Ambulance Service, Avoca Hose Co. Ambulance Corps, Hornell City Ambulance, SpringWay ambulance service, Bath Volunteer Ambulance Corps, Steuben County Sheriff, Cohocton Town Police and New York State Police) within and around the Facility area, asking for verification of the routes they would take to the Facility sites when responding to a possible emergency. Responses to the request have been received from the Cohocton, Howard, Perkinsville, South Dansville, Wallace, and Wayland volunteer fire departments, Cohocton Valley and Avoca Hose Co. ambulance services, Cohocton Town Police and New York State Police. The SpringWay Ambulance Service provides ambulance service for the Perkinsville and Wayland Fire District. The Cohocton Fire Department provides ambulance service under the Cohocton Valley Ambulance Service for its fire district. The Wallace and Howard Fire Departments contract with the Avoca Hose Co. Ambulance Corps for their fire districts. The Howard Fire Department also contracts with the Fremont Fire Department for ambulance service. The volunteer fire departments with ambulance services and the independent ambulance services will transport patients to the Ira Davenport Memorial Hospital in Bath and/or Noyes Memorial Hospital in Dansville. The fire chief at the Howard Fire Department

mentioned that the Fremont Fire Department and the Hornell City Ambulance Service may provide ambulance service to parts of the South Dansville Fire District and possibly transport patients to the St. James Mercy Hospital in Hornell, but this information has not been confirmed. At this time, there have been no responses from the Fremont Fire Department, Steuben County Sheriff Department, Hornell City Ambulance or Bath Volunteer Ambulance Corps. See Appendix E for the maps depicting the potential emergency routes for all of the local emergency responders.

2.5 LOAD RESTRICTIVE BRIDGES/CULVERTS

Existing bridge posting data was taken from the R-Posted Bridge and Posted Bridge listing for Steuben County dated March 15, 2017 at the NYSDOT Posted Bridges online website. There are three bridges within the Facility area, and none are posted. These bridges are not located along any currently proposed potential construction routes. At the start of the potential regional destination routes, there are five interstate bridges (I-390 NB/SB over NY 21, I-390 NB/SB over CR 121 and CR 70 over I-86/NY 17) that will not be subject to loads because of the interstate off ramp locations. If there are any changes to the potential construction routes in the future that direct traffic over these bridges between ramps, they will be checked for adequacy with respect to loading along with horizontal width and vertical height restrictions during the Special Hauling Permit Application process with the NYSDOT. See Appendix J for a Map of Existing Bridge and Large Culvert Locations and the Table of Bridge and Large Culvert Rating Information showing the HS Ratings, Condition Ratings, Sufficiency Ratings and Bridge Inspection Dates for bridges along the potential haul routes and within the Facility area. Also see Appendix G for the Table of Roadway Restrictions.

Also within the Facility area, there are numerous small and large culverts along the potential haul routes. Based on the site evaluation, approximately 40% of these culverts have less than 2 feet of coverage over them. It is assumed that any culvert with less than 2 feet of cover may be susceptible to damage during construction activities. The large culverts along the potential haul routes are assigned a condition rating from NYSDOT and Steuben County visual inspections. The culvert inspections do not include load ratings or sufficiency ratings, which are normally available for bridges only. These locations will be further analyzed during final engineering to determine if improvements are necessary prior to using the routes for deliveries of construction materials. Any necessary improvements as well as restoration of damaged culverts will be addressed in the Road Use Agreements with the local municipalities. See Appendix J for the Table of Culvert Locations.

2.6 ROADWAY PERMITS/ROAD USE AGREEMENTS

Special hauling permits are required when loads exceed legal dimensions or weights. Transport of the wind turbine sections and crane will require a variety of special hauling permits. Actual loads will depend on the specific turbine supplier, crane equipment chosen, and degree of disassembly of the crane. The types of permits depend on the characteristics of the vehicle and its cargo, number of trips, distance traveled, and duration. According to the NYSDOT Central Permit Office in Albany, all vehicles exceeding 16 feet in width, 15'-11" in height, 160' in length, or 200,000 pounds in gross weight; and any combination of those, will require a Type 1S – Superload Trip Permit from NYSDOT. Additional Permit Forms such as the PERM 39 – Application for Special Hauling

Permit, PERM 39-1VC – Vehicle Configuration Attachment, PERM 39-4 – Additional Trailer Attachment (Option 1), and PERM 99 – Additional Trailer Attachment (Option 2) may need to be completed along with the Type 1S – Superload Trip Permit. The permit process can be completed online for Divisible and Non-Divisible Load Overweight Permits. The NYSDOT Website, https://www.dot.ny.gov/nypermits outlines the guidelines, types and fees for various special hauling permits. The applicant or other responsible party such as the BOP Contractor or Turbine supplier will need to set up an account in order to complete the permit process online. Additional information can also be found at www.NYPermits.org. Additionally, Highway Work Permits will be required from the respective municipalities for intersection and roadway improvements within the Public rights-of-ways.

In consultation with the County and Towns where the local roads are proposed for use as delivery and construction vehicle transport routes, Road Use Agreements with the affected municipalities will be required, and will stipulate that the hauling routes are to be repaired if there is any damage from excessive use. Steuben County requires Road Use Agreements prior to and after construction. See the following Table of Roadway Agreements and Permits below for a complete list of State, County, and Town requirements.

BARON WINDS FACILITY											
	ROADWAY AGREEMENT AND PERMIT TABLE										
GOVERNMENT AGENCY	ROAD USE AGREEMENT	HIGHWAY WORK PERMIT TO WORK WITHIN ROW	HIGHWAY UTILITY PERMIT TO WORK WITHIN ROW	TRAFFIC SIGNAL PERMIT TO WORK WITHIN ROW	SPECIAL HAUL PERMIT FOR OVERSIZED/OVERWEIGHT VEHICLES	а	DIVISIBLE LOAD OVERWEIGHT PERMIT	CONTACT INFORMATION			
TOWN OF COHOCTON	YES	YES	YES	NO	YES	YES	YES	HWY. SUPERINTENDENT BRIAN KUHN, 585-384-5290			
TOWN OF DANSVILLE	*	*	*	*	*	*	*	HWY. SUPERINTENDENT RAY W. ACOMB, 607-295-7760			
TOWN OF FREMONT	YES	YES	YES	YES	YES	YES	YES	HWY. SUPERINTENDENT LEE A. PYER, 607-324-6349 (CELL) 607-281-4614			
#TOWN OF HOWARD	YES	YES	YES	NO	YES	YES	NO	HWY. SUPERINTENDENT ANTHONY CLARK, 607-566-2007			
TOWN OF WAYLAND	*	*	*	*	*	*	*	HWY. SUPERINTENDENT RAYMOND THIELGES III, 585-728-5253			
STEUBEN COUNTY	YES	YES	YES	NO	YES	YES	YES	PUBLIC WORKS DEPARTMENT, STEVE CATHERMAN, PE, 607-664-2460, REQUIRE TWO ROAD USER AGREEMENTS (BEFORE & AFTER USE), START PROCESS EARLY			
NYSDOT NO YES YES YES YES NOT AVAILABLE YES NYSDOT REGION 6 TRAFFIC SAFETY & MOBILITY, PERMIT ENGINEER, A PULEO, 607-324-8517		NYSDOT REGION 6 TRAFFIC SAFETY & MOBILITY, PERMIT ENGINEER, ANDREW PULEO, 607-324-8517									

^{*} The town highway superintendents for the towns of Dansville and Wayland have been contacted by phone (12/2016) and requests for road user agreement requirements and other transportation information (question form) have been sent to them and the other towns by either fax and/or email coorespondance. A second email coorespondance was sent out on 3/9/2017 inquiring on the status of the first request. On 4/20/17, a third attempt to contact the town highway superintendents by phone was made, but no one answered and a message was left for them to contact the consultant by phone with any information about their roadways for the transportation study, but as of date, there has been no response from the Towns of Dansville and Wayland.

[#] There are no turbine sites in the Town of Howard, but there is a proposed access route along County Route 70 and Avery Road within the town that will be used for construction traffic and may be included under a permit and road user agreement.

3.0 LOCAL ROAD REVIEW

3.1 EXISTING ROADWAY CHARACTERISTICS

A field evaluation was conducted between November 30th, 2016 and December 14th, 2016 on the potential delivery and construction vehicle haul routes to and within the Facility area. The condition of the roads was evaluated by visual inspection and rated with an excellent/good/fair/poor designation. The visual pavement condition ratings were based on the criteria from the NYSDOT 2014 Pavement Report, under the section "Pavement Condition Measures" on page 4. Roadside features, bridge and roadway horizontal/vertical restrictions, bridge/culvert locations, and possible restricted intersection radii locations were also included in the evaluation.

Generally, State Route 21, between I-390 to Conderman Road, provides 12 foot lanes with shoulders that vary in width from 4 feet to 6 feet. At some culvert locations, the shoulder width is reduced to 2 to 3 feet. Based on record plans from NYSDOT, pavement thickness (including existing concrete and asphalt) is a minimum of 11 inches. The roadway terrain is considered rolling, with winding alignment amongst the southern portion of the segment. Currently, there is no load posting on this state highway, so it is assumed that this highway is adequate to handle the heavy loads. The Special Hauling Permit will be the final determination of the route to be taken during the facility's construction operations.

County roads CR 50, CR 54, CR 55, CR 70, CR 92 and CR 121 have travel lanes that vary from 10 feet to 11 feet wide and shoulders that vary from 2 feet to 10 feet wide. The roadway terrain is considered mostly rolling with some roads having roadside hazards such as steep banks and ditches, some non-standard guide rail, trees close to the roadway, low tree branches, and low speed curves. Request for information (email and verbal) on the county roads, bridges and culverts were sent to the Steuben County Department of Public Works Engineer on 12/2/2016, 12/5/2016, and 12/22/2016. The county responded on 12/6/2016 and 12/23/2016 by providing information on posted bridges, posted roads, condition ratings for bridge and large culverts and other roadway information including traffic volumes, pavement thicknesses, widths, utilities, and construction history. There are no bridges located on the county roads identified as potential haul routes. County Route CR 6, which is within the project area, but not being considered as a haul route, has bridges with both good and not good condition ratings. Pavement thicknesses range from 4 inches (portion of CR 70) to over 9 inches (portions of CR 50, CR 54 and CR 92), of asphalt concrete.

The various town roads along the evaluation routes had roadway surfaces that were either asphalt, oil & stone or gravel. The travel lane widths in a two lane section ranged from 8 feet to 10 feet, with some roads consisting of only a 10, 11, 12 or 14 feet single lane. The shoulder widths vary from 1 feet to 8 feet along these roads. The shoulder material may be asphalt, gravel or grass. The terrain for these roads are considered to be rolling, but with some areas being flat. There are numerous roads with roadside hazards that are similar to the county roads, along with low speed curves. Email responses and conversations with the Town Highway Supervisors have indicated that their paved town highways have thin asphalt over their sub base material. On average an existing oil and stone road may have a 3 inch or less asphalt thickness over gravel, while an asphalt road may have a thickness

of 3 to 4 inches of asphalt over gravel subbase. Gravel roads may have a material thickness of 5 to 6 inches. The Town of Howard highway supervisor mentioned that depending on the time of year, their gravel roads may be posted for weight restrictions due to the condition of the road. Based on the information received from the highway supervisors, the town roads are 20 feet in width or less, have very little pavement built up or they are gravel and are most likely to require some sort of stabilization to support the vehicle loads during construction. Additional information on the email responses from the Town Highway Supervisors have confirmed that there is no documented information on the conditions of town road culverts and all bridges on town roads are under the jurisdiction of the County.

3.2 ROADWAY EVALUATION

State roads and County roads will be utilized as much as possible for construction traffic within the Facility area (unless there are any physical constraints that may limit the use of these roads), using town roads as the last point of access to the wind turbine locations. Based on the conditions of the town roads, the most economical routes with the least impacts have been determined. See Section 4.1 Haul Route Recommendations for the preferred routes.

According to the 2015 Pavement Data Report for New York State Highways, the portion of State Route 21, from I-390 to Conderman Road has a condition rating of 6 (with 10 as the highest possible rating). Steuben County does have a roadway rating system, where each roadway is assigned a Structural Class (1, 2, or 3), to determine what type of Roadway Use Agreement is needed. Structural Class 1 indicates the roadway foundation is of high quality and the pavement surface is rated Good to Excellent. Structural Class 2 defines the roadway foundation as high quality, but the pavement surface is rated Fair to Good. Structural Class 3 indicates the roadway foundation is of poor to marginal quality and the pavement surface is rated Fair to Good. It was assumed that the towns do not have a rating system for their roads. Because of the majority of the roadways being considered for haul road and construction vehicle use are local roads, a roadway condition rating is needed to determine the best routes to the Facility since there are no rating systems set up under the local town highway departments.

The following is a more descriptive evaluation, including visual pavement ratings of each state, county, and town road being considered and/or projected to be used as a haul road, construction vehicle route, or access to a potential Facility site. See Appendix F for the Table of Roadway Field Evaluation (Condensed) showing a condensed version of the field evaluation, including pavement thicknesses. The full version of the field evaluation sheets for each roadway segment will be available as a separately bound document. See Appendix L for Roadway Rating Photos.

State Route NY 21, I-390 to Conderman Road – The length of this segment is 10.7 miles. The asphalt pavement condition ranges from Fair between Derevees Road and Conderman Road to Good between I-390 and Derevees Road. Speed limit for this segment is generally 55 mph with a speed reduction to 45 mph between CR 55 and CR 6 in the hamlet of Haskinville. The travel lanes are 12 feet and shoulder widths range from 4 to 6 feet. Most bridges and large culverts along this route have conforming bridge/culvert rail. On two culverts between Quanz Road and Emo Road, the shoulders narrow down to 2 to 3 feet. The I-390 NB and SB bridges

over NY 21 just south of Wayland, have minimum vertical clearances on NY 21 of 14'-1" and 13'-9" respectively. The total horizontal clearance under each of the I-390 bridges is 64 feet. The minimum width between any bridge/culvert rails along this route is 29 feet at a location just south of Ellinger Road. Two out of five of the large culverts along this route were constructed in 1926 and have condition ratings in the lower 4 range. A condition rating of 3 indicates serious deterioration or not functioning as originally designed. Referring to all of the culverts, a few have either shallow cover or deep cover with the majority having between 2 feet and 6 feet of fill under the roadway/over the culvert. There are no traffic signals along this segment of NY 21.

County Route CR 50, NY 21 to Stone Hill Road - The length of this segment is 4.3 miles. The asphalt pavement condition for this road is considered Good. Steuben County rated this roadway as Structural Class 1. The travel lanes are 10 feet and shoulder widths are 4 feet. Speed limit is 55 mph. The minimum width between any culvert rails along this route is 28 feet at a location just south of Day Road. Most of the culverts have 3 feet or less of cover under the roadway/over the culvert. Low overhead wires are present at a few locations. Steep drainage ditches exist on both sides of the roadway. Also there are multiple lower speed curves along this roadway.

County Route CR 54, Conderman Road to CR 55 - The length of this segment is 2 miles. The asphalt pavement along this road is in Good condition. Steuben County rated this roadway as Structural Class 1. The travel lanes are 10 feet and shoulder widths are 4 feet. Speed limit is 55 mph. Most of the culverts have 2 feet or more of cover under the roadway/over the culvert. Steep drainage ditches exist on both sides of the roadway.

County Route CR 55, NY 21 to Stewart Road/I-86&NY17 Bridge – The length of this segment is 3.5 miles. The asphalt pavement condition for this road is Good. Steuben County rated this roadway as Structural Class 1. The travel lanes are 11 feet and shoulder widths vary from 2 feet to 6 feet. Speed limit is 55 mph. Most of the culverts have 2 feet or more of cover under the roadway/over the culvert. Some steep slope areas exist at a few locations along the roadway. Also there is one lower speed curve along this roadway with an advisory posted of 30 MPH.

County Route CR 70, I86/NY 17 Interchange to Avoca Town Line - The length of this segment is 2.7 miles. The asphalt pavement condition for this road is Good. Steuben County rated this roadway as Structural Class 2. The travel lanes are 11 feet and shoulder widths vary from 4 feet to 6 feet. Speed limit is 55 mph. The CR 70 bridge over I-86 EB and WB just north of CR 70A, has a minimum vertical clearance of 16'-8" and a maximum vertical clearance of 20'-10" on I-86. The horizontal clearance for each direction on I-86 under the CR 70 bridge is approximately 58 feet. Most of the culverts have 2 feet or more of cover under the roadway/over the culvert. Also there are multiple lower speed curves along this roadway.

County Route CR 92, Old State Route 15 to NY 21 - The length of this segment is 4.0 miles. The asphalt pavement condition for this road is Good. Steuben County rated this roadway as Structural Class 1. The travel lanes are 10 feet and shoulder width is 3 feet. Speed limit for this segment is generally 55 mph with a speed reduction to 35 mph between Antler Inn Road and NY 21 in the hamlet of Loon Lake. Most of the culverts have 3 feet or more of cover under the roadway/over the culvert. Low overhead

wires are present at numerous locations. Steep drainage ditches exist on both sides of the roadway at a few locations. Also there are multiple lower speed curves along this roadway.

County Route CR 121, I-390/NY 15 Interchange to NY 21 - The length of this segment is 3.5 miles. The asphalt pavement condition for this road is Good. Steuben County rated this roadway as Structural Class 1. The travel lanes are 11 feet and shoulder width is 4 feet. Speed limit is 55 mph. Most of the culverts have 2 feet or more of cover under the roadway/over the culvert. Low overhead wires are present at numerous locations. The I-390 NB and SB bridges over CR 121 just west of Cohocton, have minimum vertical clearances on CR 121 of 14'-3" and 14'-0" respectively. The total horizontal clearance under each of the I-390 bridges is 58 feet. Steep drainage ditches exist on both sides of the roadway at multiple locations. Also there are multiple lower speed curves along this roadway, one advisory posted at 10 mph near South Church Street.

Avery Road, (Fremont) Town Line to CR 70 - The length of this segment is 1.5 miles. This road has a gravel surface with a condition rating of Fair. The total travel way is 14 feet and shoulder widths are 2 feet. Some potholes and washed out areas exist along this roadway. The road becomes narrower at the tight curve locations and in an area just east of Stewart Road where there are low tree branches and trees near the roadway. The one culvert along this route has at least 8 feet of cover under the roadway/over the culvert. This seasonal use roadway is not maintained in the winter, from November 1st to May 1st.

Babcock Road, NY 21 (north) to 1.1 miles south - The length of this segment is 1.1 miles. This road has a gravel surface with a condition rating of Good. The travel lanes are 10 feet and shoulder widths are 3 feet. All of the culverts have 3 feet or less of cover under the roadway/over the culvert. Between NY 21 (North) and Holmes Road, the roadway becomes steep with low tree branches, trees close to the road edge and steep slopes on both sides of the road. This seasonal use roadway is not maintained in the winter, from November 1st to April 1st.

Back Street, Rose Road to Ricks Rd - The length of this segment is 1.6 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 5 feet. At 0.2 miles east of Dutch Road, the roadway narrows down to 14 feet wide with 2 foot shoulders. Some potholes and wearing areas from farm tractors exist along this roadway. There are frequent steep drainage ditches on both sides of the road. Three culverts with 1 foot or more of cover were present along this portion of roadway. This seasonal use roadway is not maintained in the winter, from November 1st to April 1st.

Brasted Road, (Avoca) Town Line to CR 70 - The length of this segment is 0.3 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 3 feet. Low overhead wires are present. There are no culverts along this roadway.

Brown Hill Road, New Galen Road to Wager Road - The length of this segment is 1.1 miles. The asphalt pavement condition for this road is Fair. The travel lanes are 8 to 9 feet and shoulder widths are 4 to 5 feet. There are no pavement markings on this

roadway. Steep drainage ditches exist on both sides of the roadway. Low overhead wires exist along this roadway. Most of the culverts have 2 feet or more of cover under the roadway/over the culvert with the exception of two, which have 1 foot or less.

Campbell Road, Oil Well Hollow Road to Dye Road - The length of this segment is 0.7 miles. This road has a gravel surface with a condition rating of Good. The travel lanes are 8 feet and shoulder widths are 5 feet. Road is steep for the first 0.25 miles north of Dye Road. This road becomes narrower at the last 0.2 miles with less gravel and more dirt as a wearing surface. The two culverts along this route have 3 feet or more of cover under the roadway/over the culvert. This seasonal use roadway is not maintained in the winter, from November 1st to April 1st.

Canfield Road, Conderman Road to CR 55 - The length of this segment is 1.5 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 5 feet. There is one lower speed curve on a steep grade along this roadway with an advisory posted speed of 20 mph near CR 55. The one culvert along this route has less than 1 foot of cover under the roadway/over the culvert.

Conderman Road, NY 21 to CR 54 - The length of this segment is 1.8 miles. This combination gravel/asphalt road has a condition rating of Fair. Starting at NY 21, the road surface is asphalt for 0.7 miles, then gravel to the CR 54 intersection. The travel lanes are 10 feet and shoulder widths are 4 feet. Low tree branches and trees exist near the roadway, south of Canfield Road. The three culverts along this route have 3 feet or less of cover under the roadway/over the culvert. This seasonal use roadway is not maintained south of Canfield Road in the winter, from November 1st to April 1st.

Davis Road, NY 21 to New Galen Road - The length of this segment is 1.3 miles. This road has a gravel surface with a condition rating of Good. The travel lanes are 10 feet and shoulder widths vary from 3 to 4 feet. Low overhead wires are present at one location near NY 21. All of the culverts along this route have 2 feet or more of cover under the roadway/over the culvert. No culvert rail present at culvert location just east of NY 21 and steep slopes exist on the south side of the road along a stream from NY 21 to 0.4 miles east. Low overhanging branches are present up to 0.5 miles, east of NY 21.

Derevees Road, Bronson Road to NY 21 - The length of this segment is 0.9 miles. This combination gravel/asphalt road has a condition rating of Fair. Starting at NY 21, the road surface is asphalt for 0.7 miles, then gravel to the Bronson Road intersection. The travel lanes are 10 feet and shoulder widths are 2 feet. There are no pavement markings on this roadway. Low overhead wires are present just west of NY 21. Most of the culverts have less than 1 foot of cover under the roadway/over the culvert with the exception of one large 10 feet concrete box which has 5 feet of cover under the roadway/over the culvert (near Bronson Road). The culvert near Bronson Road has no guiderailing.

Dutch Road, CR 54 to Back Street - The length of this segment is 0.9 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 8 feet and shoulder widths are 4 feet. This seasonal use roadway is not maintained in the winter, from November 1st to April 1st.

Dye Road, South Church Road to Campbell Road - The length of this segment is 0.7 miles. The asphalt pavement condition for this road is Fair. The travel lanes are 9 to 10 feet with shoulder widths of 5 feet. Pavement surface is heavily worn with minor cracking. There are no pavement markings on this roadway. Some steep drainage ditches exist on both sides of the roadway. Low overhead wires are present at one location east of South Church Road. All three culverts have 3 feet or more of cover under the roadway/over the culvert.

Emo Road, NY 21 to (Cohocton) Town Line - The length of this segment is 2.2 miles. This combination asphalt/gravel road has a condition rating of Good. Starting at NY 21, the road surface is asphalt, which is showing some wear at the shoulders, then transitions to gravel at a point 600 feet east of the CR 92 intersection. The travel lanes are 9 to 10 feet and shoulder widths are 5 feet. Low overhead wires are present at one location east of NY 21 and another location just east of CR 92. Of the four culverts along this route, one has 6 feet of cover under the roadway/over the culvert while the other three are unknown. Numerous sharp curves exist along this roadway.

Holmes Road, Wagner Road to Babcock Road - The length of this segment is 1.2 miles. This road has a gravel surface with a condition rating of Poor. A single lane road with 11 feet width and 1 to 4 feet shoulders exist in the Town of Dansville. In the Town of Fremont, the single travel lane is 14 feet and shoulder widths are 3 feet. This road is narrow with frequent potholes and poor drainage. There are low tree branches and trees near the roadway at mutiple locations. The one culvert along this route has 8 feet of cover under the roadway/over the culvert. This seasonal use roadway is not maintained in the winter, from November 1st to April 1st.

Jobs Corners Road, CR 55 to (Howard) Town Line - The length of this segment is 0.6 miles. This road has a gravel surface with a condition rating of Fair. This single lane road is 14 feet wide with shoulder widths of 3 feet. This road becomes narrower at a **36" iron pipe** culvert location, 0.4 miles east of CR 55. There are low tree branches and trees near the roadway at various locations. There are two culverts along this roadway, one with 6 feet of cover and the other with less than 6 inches of cover under the roadway/over the culvert. This seasonal use roadway is not maintained in the winter, from November 1st to April 1st.

Jones Road, CR 54 to CR 55 - The length of this segment is 1.1 miles. This combination asphalt/gravel road has a condition rating of Fair. The travel lanes are 10 feet and shoulder widths are 2 feet. Starting at CR 54, the road is gravel for 0.4 miles, then transitions to an oil and stone surface. There are no pavement markings on this roadway. There are six culverts on this segment with 4 feet or less of cover under the roadway/over the culvert.

Lake Hollow Road, CR 121 to Potter Hill Road - The length of this segment is 1.2 miles. This asphalt road has a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 2 feet. Some pavement surface areas are worn with moderate raveling. Low overhead wires are present at numerous locations. Steep drainage ditches exist on both sides of the roadway at frequent locations. All five culverts have 2 feet or more of cover under the roadway/over the culvert. Numerous sharp curves

exist along this roadway. Low overhanging branches are present just south of CR 121. There are no pavement markings on this roadway.

Lander Road, Walter Kurtz Road to CR 50 - The length of this segment is 1.5 miles. This combination asphalt/gravel road has a condition rating of Fair. Starting at CR 50, the road surface is asphalt which is heavily worn with some potholes and moderate cracking, then transitions to gravel at the Day Road intersection. The gravel portion is worn and eroded from rain. The travel lanes are 10 feet and shoulder widths are 5 feet. There are low wires at approximately 0.3 miles south of Day Road. Three out of four culverts have 10 feet or more of cover under the roadway/over the culvert while the fourth culvert has 1 foot of cover under the roadway/over the culvert. There are no pavement markings present on this roadway. Two sharp curves are located just north of CR 50 and the gravel portion is not maintained in the winter, from December 1st to April 1st.

Mack School Road, NY 21 to Neu Road - The length of this segment is 1.3 miles. This asphalt road has a condition rating of Good. The short asphalt road portion between Wagner Road and Neu Road is in Fair condition. The travel lanes are 10 feet and shoulder widths vary from 2 to 3 feet. Low overhead wires exist at three locations. Most of the culverts have 2 feet or less of cover under the roadway/over the culvert. There are frequent drainage ditches on both sides of the roadway with some being very steep.

Mattoon Road, Skelly Road to Dead End - The length of this segment is 1.1 miles. This gravel road has a condition rating of Fair. The travel lanes are 8 feet and shoulder widths are 2 feet. This roadway is narrow with steep ditches on both sides. Low branches are present and there is a bridge (BIN 2216990) that has an inspection rating of 5 as indicated on the Bridge and Large Culvert Rating Table in Appendix J. The one culvert along the roadway has unknown cover under the roadway/over the culvert.

Miller Road, CR 70 (south) to CR 70 (north) - The length of this segment is 2.3 miles. This gravel road has a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 5 feet. There was some significant gravel surface wear on the steep slope sections. There are no culverts on this roadway.

New Galen Road, Dye Road to Davis Road - The length of this segment is 1.3 miles. This asphalt road has a condition rating of Good. The travel lanes are 10 feet and shoulder widths are 6 feet. Minor cracking exists at the centerline. Low overhead wires are present at two locations. Steep drainage ditches exist on both sides of the roadway at some locations. Most of the culverts have 3 feet or less of cover under the roadway/over the culvert. Two sharp curves exist along this roadway. There are no pavement markings on this roadway.

Neu Road, Mack School Road to 0.7 miles south - The length of this segment is 0.7 miles. This road has a gravel surface with a condition rating of Poor. This single lane road is 12 feet wide with shoulder widths of 2 feet. This road becomes narrower at some areas and exhibits frequent potholes and rutting. Steep slopes exist on the west side of the roadway. There are two culverts

along this roadway, both with 3 feet or less of cover. This seasonal use roadway is not maintained in the winter, from December 1st to April 1st.

Old Route 15, Quanz Road to CR 92 - The length of this segment is 0.2 miles. This road has an asphalt surface with a condition rating of Fair. The travel lanes are 10 feet and shoulder widths are 5 feet. There is frequent minor cracking and deteriorated shoulders along this segment. There are two culverts along this roadway, both with 3 feet or more of cover under the roadway/over the culvert. There are no pavement markings on this roadway.

Parker Road, Mattoon Road to Saxton Road - The length of this segment is 0.8 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 2 feet. Low overhead wires are present at one location west of Saxton Road. The one culvert along this route has 6 inches to 3 feet of cover under the roadway/over the culvert. Roadway grade becomes steep near Skelly Road and the skewed configuration at this intersection makes it difficult to turn from Parker Road. This seasonal use roadway is not maintained in the winter, from December 1st to April 1st.

Potter Hill Road, Lake Hollow Road to Campbell Rd - The length of this segment is 2.3 miles. This combination gravel/asphalt road has a condition rating of Fair. Starting at Campbell Road, the road surface is gravel which is heavily worn with rain damage and washboarding, then transitions to asphalt at the Wager Road intersection. The asphalt portion has frequent cracking and holes in the top wearing course. The travel lanes are 8 to 9 feet and shoulder widths are 5 feet. Roadway becomes narrow at a culvert location just east of Campbell Road. Steep slopes and winding curves are frequent along this roadway portion. Houses are present at two outside curve locations between Campbell Road and Wager Road, where the steep roadway ends at a winding curve, putting residents at risk if trucks lose their brakes traveling downhill and going off the roadway at these areas. There are low wires at four locations along this segment of roadway. Grade warning signs are posted at various locations. Most culverts have 3 feet or more of cover under the roadway/over the culvert while one culvert has 1 foot of cover under the roadway/over the culvert and two culverts have unknown cover under the roadway/over the culvert. There are no pavement markings on this roadway.

Quanz Road, NY 21 to Old Route 15 - The length of this segment is 0.9 miles. This road has an asphalt surface with a condition rating of Good. The travel lanes are 9 feet and shoulder widths are 5 feet. Low overhead wires are present at several locations east of NY 21. Steep drainage ditches and shoulders exist on both sides of the roadway. The three culverts have 3 feet or more of cover under the roadway/over the culvert. There are no pavement markings along this roadway.

Rex Road, Brown Hill Road to 0.5 miles north - The length of this segment is 0.5 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 8 feet and shoulder widths are 5 feet. The one culvert along this route has 5 feet of cover under the roadway/over the culvert and there are two sharp curves, one with an advisory posted speed of 15 MPH. This seasonal use roadway is not maintained in the winter, from November 1st to May 1st.

Rose Road, CR 54 to Tuttle Road - The length of this segment is 1.8 miles. This combination gravel/asphalt road has a condition rating of Fair. Starting at CR 54, the road surface is gravel with some potholes present, then transitions to asphalt at 0.2 miles north of the Van Keuren Road intersection. There are no pavement markings present. The travel lanes are 10 feet and shoulder widths are 8 feet. Deep ditches are frequent on both sides of the roadway.

South Church Road, CR 121 to NY 21 - The length of this segment is 1.4 miles. This road has an asphalt surface with a condition rating of Good. The travel lanes are 10 feet and shoulder widths are 5 feet. Pavement is in Poor condition south of Dye Road with heavy cracking. Low overhead wires are present at a few locations. Two culvert locations just east of NY 21 have concrete fascia barrier walls. Four out of five culverts have 2 feet or more of cover under the roadway/over the culvert while the other culvert has less than 1 foot of cover under the roadway/over the culvert. There is one sharp curve present. There are no pavement markings on this roadway.

Saxton Road, Parker Road to CR 70 - The length of this segment is 1.3 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 10 feet and shoulder widths are 2 feet. The one culvert along this route has less than 6 inches of cover under the roadway/over the culvert.

Skelly Road, CR 55 to Mattoon Road - The length of this segment is 0.4 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 8 feet and shoulder widths are 3 feet. There is a combo sharp horizontal, steep vertical curve near the Mattoon Road intersection. The one culvert along this route has 3 feet of cover under the roadway/over the culvert.

Stone Hill Road, CR 50 to Bronson Road - The length of this segment is 1.8 miles. This road has a gravel surface with a condition rating of Fair. The travel lanes are 10 feet and shoulder widths are 2 feet. Some wearing and rough pavement surface areas exist along this roadway. Three out of four culverts have less than 1 foot of cover under the roadway/over the culvert while the other one has 7 feet of cover under the roadway/over the culvert. Frequent overhanging branches exist west of Wagner Road.

Tuttle Road, CR 55 to Rose Road - The length of this segment is 2.4 miles. This road has a gravel surface with a condition rating of Poor. This single lane road is 12 feet wide with shoulder widths of 5 feet. The road has some potholes and becomes narrower in the forested areas. All culverts have 1 foot or less of cover under the roadway/over the culvert. There are low tree branches and trees near the roadway, south of CR 55.

Van Keuren Road, Rose Road to Dead End - The length of this segment is 0.6 miles. This road has a gravel surface with a condition rating of Good. The travel lanes are 9 feet and shoulder widths are 3 feet.

Wager Road, Potter Hill Road to Brown Hill Road - The length of this segment is 1.1 miles. This road has an asphalt surface with a condition rating of Fair. The travel lanes are 9 feet and shoulder widths are 5 feet. Some steep grades along with winding

curves exist along this roadway. Low overhead wires are present at a few locations. All of the culverts have 1 foot or more of cover under the roadway/over the culvert. There are no pavement markings on this roadway.

Wagner Road, Stone Hill Road to Mack Hill Road - The length of this segment is 1 mile. This road has a gravel surface with a condition rating of Poor. This single lane road is 14 feet wide with shoulder widths of 2 feet. This road is narrow with frequent potholes. The one culvert along this route has 8 feet of cover under the roadway/over the culvert. This seasonal use roadway is not maintained in the winter, from December 1st to April 1st.

Walter Kurtz Road, Lander Road to NY 21 - The length of this segment is 2.3 miles. This combination gravel/asphalt road has a condition rating of Good. Starting at Lander Road, the road surface is gravel with minor washboarding present, then transitions to asphalt at 0.4 miles east of the Lander Road intersection. There are no pavement markings present. The gravel section consists of a single travel lane of 12 feet with shoulder widths of 2 feet. The asphalt section has 10 feet travel lanes and 3 to 5 feet shoulder widths. Some sharp curves exist along this roadway. Most culverts have 1 foot or more of cover under the roadway/over the culvert with the exception of one, which has less than I foot of cover under the roadway/over the culvert. The gravel portion of the roadway is not maintained in the winter, from November 1st to April 1st.

Walters Road, Wager Road to Dead End - The length of this segment is 1 mile. This road has a gravel surface with a condition rating of Good. This single lane road is 12 feet wide with shoulder widths of 2 feet. This road is narrow with some wearing of the gravel surface and overhanging branches present at various locations. Three out of four culverts have 2 feet or more of cover under the roadway/over the culvert while the other one has 1 foot of cover under the roadway/over the culvert.

3.3 ROADWAY/INTERSECTION RESTRICTIONS

Existing roadway restrictions (height, width, weight) and deficient intersection radius locations were observed in the field and researched from NYSDOT resources during our initial review. Height restrictions such as vertical clearances under bridges at the interchanges of State Route 21/I-390 and County Route 121/I-390 as well as low utility wires along various local roads as described under the roadway evaluation will prevent or make it difficult for access by Overwidth/Overweight delivery vehicles. There are some local roads within the Facility area that are considered narrow with only one lane. Some wind turbine access roads are located along these narrow roads, or these narrow roads are used to travel to another local road with a turbine access road, so it may be necessary to either widen the road or provide traffic control (contractor flag person or local police agency) for the Overwidth/Overweight vehicles. It was also noted that tight curves exist on some roadways where additional widening with gravel may be needed to accommodate up to a 150 foot radius turn for the Overwidth/Overweight delivery vehicles. The large culverts along the potential construction routes appear to have sufficient width to accommodate the Overwidth/Overweight vehicles, but also will need to be checked during the Special Hauling Permit Application process. There are no weight restrictions along State and County roads, but the following local roads on the next page may have load postings that are determined from the town highway supervisor at the time the road is needed as a haul route:

Avery Road, Brasted Road, Miller Road, Parker Road, Saxton Road and Tuttle Road in the Town of Howard

For the deficient intersections, the path of the 155 foot trailer design vehicle (for turbine blades) using a 150 foot intersection radius was evaluated along the potential travel routes to the wind turbine sites to identify required temporary intersection improvements. Additional mitigation (tree removal, sign relocation, utility pole/box relocation, culvert pipe extension or new installation, drainage ditch relocation, removal/relocation of other tall objects) may be needed due to the turbine blade length extending beyond the rear trailer of the delivery vehicle. See Appendix G for the Table of Roadway Restrictions and Table of Intersection Restrictions (along potential access route locations only).

4.0 TRANSPORTATION ROUTES

4.1 HAUL ROUTE RECOMMENDATIONS

When evaluating viable transportation routes for delivery vehicles and construction vehicles going to the Facility sites, several items were considered. These items are:

- The roadway characteristics and condition
- The number of bridges and large culverts along a designated route
- The condition of the bridges and culverts that are along the route
- The number of intersections where turning movements will be made
- Roadways with minimal sharp curves and/or steep grades to avoid additional mitigation and/or safety issues
- Various potential restrictions such as narrow bridges/large culverts, low overhead clearances and impacts from small intersection radii affecting the turning movements.

Based on this assessment, the following are recommended routes to the various facility sites:

Access Route #1 - To Wind Turbine Sites T3, T5, T2/T7/T18/T13: Use Exit 3 off ramp from I-390 (SB). Turn right onto NY 21 and travel southbound within the Town of Wayland. Turn left onto Quanz Road, then right onto Old Route 15, then right onto CR 92. Travel southbound on CR 92, then turn left onto Emo Road. Travel eastbound on Emo Road, turn left for Turbine Site T3, continue further, turn left for Turbine Site T5, continue a little further on Emo Road and turn right for Turbine Sites T2/T7/T18/T13. See Appendix A for the Map of Access Route Locations. In the map, potential access routes are starting at the three interstate interchanges; I-390 and NY 21 (Exit 3), I-390 and CR 121 (Exit 2), and I-86/NY 17 and CR 70 (Exit 35). Each potential access route to the turbine locations is color-coded. A portion of Access Route #2 will overlap with Access Route #1 along the route between Exit 3 off ramp from I-390 (SB) and Emo Road. There is a legend on the map that also shows the overlapped route along each individual color-coded route for better guidance.

Other routes evaluated for turning off of NY 21, south of Quanz Road, to reach these sites were studied. On NY 21, there are three large concrete box culverts located between Quanz Road and CR 50/CR 92. Two of the three culverts were built in 1926 and have culvert ratings of 4.3 and 4.5 with short spans that are similar to bridges. It is unknown whether these lower rated large culvert structures can accommodate the turbine delivery truck loads. The preferred Access Route #1 (Quanz Road/Old Route 15/CR 92 to Emo Rd) does not have any bridges or large culverts.

Access Route #2 - To Wind Turbine Sites T72/T61, T83, T81/T86, T78/T75/T64, T89/T91/T66/T62, T35/T40, T79/T87/T76/T68, T45 and T69/T65: Use Exit 3 off ramp from I-390 (SB). Turn right onto NY 21 and travel southbound within the Town of Wayland. Turn left onto Quanz Road, then right onto Old Route 15, then right onto CR 92. Proceed southbound on CR 92, past the Emo Road intersection, continue to the NY 21 intersection, then turn left onto NY 21. Continue to proceed southbound on NY 21, turn right onto Derevees Road, proceed westbound on Derevees Road (entering the Town of Dansville). At the Wagner Road intersection, turn left and proceed southbound on Wagner Road, turn left on Holmes Road. Proceed eastbound on Holmes Road, turn right for Turbine Sites T72 and T61, continue further down Holmes Road, turn left for Turbine Site T83, continue further eastbound on Holmes Road (entering the Town of Fremont), turn left for Turbine Sites T86 and T81. Still on Holmes Road, continue eastbound from the T86/T81 Turbine Site access road to the Babcock Road intersection, turn right. Travel southbound on Babcock Road, turn left for Turbine Sites T78/T75/T64, continue further down Babcock Road, turn right for Turbine sites T89/T91/T66/T62. For Sites T35/T40, continue southbound on Wagner Road from the Holmes Road intersection, turn right onto Mack School Road, then left onto Neu Road. Travel southbound on Neu Road, turn left for Turbine Sites T35 and T40. For Sites T79/T87/T76/T68, T45, and T69/T65, at Wagner Road and Mack School Road intersection, proceed eastbound on Mack School Road (entering the Town of Fremont), then right onto NY 21. Travel southbound on NY 21, then turn left onto Conderman Road. Proceed southbound on Conderman Road, turn left for Turbine Sites T79/T87/T76/T68, continue further down Conderman Road, past the Canfield Road intersection, turn left for Turbine Site T45. For turbine sites T69 and T65, travel southbound on Conderman Road from the NY 21 intersection, turn left onto Canfield Road, proceed eastbound on Canfield Road, turn right for Turbine Sites T69 and T65. See Appendix A for the Map of Access Route Locations.

Other routes were investigated under Access Route #2 to reach the turbine sites. Using NY 21, between Quanz Road and CR 92/CR50 was considered, but was not viable due to the reasons mentioned under Access Route #1. Additional routes along NY 21, south of Derevees Road were studied for the turbine site locations under Access Route #2. The Babcock Road (north intersection) route was considered, but the roadway was narrow with a steep grade, large trees and a barn near the road edge, and steep side slopes. Because additional mitigation, such as widening the roadway and removing the trees and barn, could be necessary to ensure safe traveling through this steep roadway, this route from NY 21 was not a viable candidate. Continuing down NY 21, the Babcock Road (south intersection) route was considered, but at the intersection, a large radius will be needed for the NY 21 southbound turn onto the Babcock Road northbound direction, which will require a large easement. The removal of an existing house close to the potential turning radius may be part of the mitigation, so this route from NY 21 was not considered viable.

Also on NY 21, there is a bridge (BIN 1016400) located just south of Derevees Road. It is unknown whether this bridge structure can accommodate the turbine delivery truck loads.

Another route to consider is using the same directions from NY 21 to Quanz Road/Old Route 15/CR 92 and back to NY 21, then proceeding straight past the NY 21 intersection to CR 50. Continue on CR 50 in a southwesterly direction until the Stone Hill Road intersection, turn left onto Stone Hill Road. Proceed eastbound on Stone Hill Road until the Wagner Road intersection, turn right onto Wagner Road and follow the same directions as discussed under the preferred access route to the turbine sites. This route is considered as an alternate route.

Access Route #3 – To Wind Turbine Sites T9/T1/T11/T4/T15, T8/T19/T43, T52/T60, T47, T44/T59/T74, T55/T53, T88/T46, T49/T34/T26/T22, T14/T28/T21/T33/T24/T29, T37/T6/T17: Use Exit 2 off ramp from I-390 (SB). Turn right onto CR 121, then left onto Lake Hollow Road within the Town of Cohocton. Travel southbound on Lake Hollow Road, continue straight, road becomes Potter Hill Road, turn left at the Wager Road intersection. Travel southbound on Wager Road for a short distance, turn left onto Walters Road, proceed eastbound on Walters Road, turn left for Turbine Sites T9/T1/T11/T4/T15, continue further down Walters Road at the dead end for Turbine Sites T8/T19/T43. Continue southbound on Wager Road from the Walters Road intersection, turn left for Turbine Sites T52 and T60. Travel further down Wager Road, turn right onto Brown Hill Road, continue westbound on Brown Hill Road (entering Town of Wayland) to the Rex Road intersection, turn right. Proceed northbound on Rex Road, turn right for Turbine site T47, go a little further, turn left for Turbine Sites T44/T59/T74. For Sites T55/T53, continue westbound on Brown Hill Road from the Rex Road intersection, continue straight, road becomes Davis Road after the New Galen Road intersection, turn left for Turbine Sites T55/T53. For the remaining turbine sites, continue westbound on Brown Hill Road from the Rex Road intersection, turn right onto New Galen Road. Travel northbound on New Galen Road, turn left for Turbine Sites T88 and T46, continue northbound on New Galen Road, turn right for Turbine Sites T49/T34/T26/T22, continue further along Campbell Road, turn left for Turbine Sites T14/T28/T21/T33/T24/T29, turn right for Turbine Sites T37/T6/T17. See Appendix A for the Map of Access Route Locations.

The CR 121/South Church Road/Dye Road route was considered, but there would be some mitigation to the narrow spur road at the South Church and CR 121 intersection that would possibly impact the park like setting with a large Loon Lake community sign in the "island area" of the intersection. Also CR 121 is a higher volume county road which passes through the southern part of the Loon Lake hamlet, possibly raising some safety issues with the increase in construction traffic. It was decided that this route was therefore discarded as a viable alternative route.

Potter Hill Road, between Campbell Road and Wager Road, was considered as another route to access the turbine sites on Campbell Road and New Galen Road, but this gravel road is heavily worn with rain damage, narrow at a culvert location, and steep with winding curves at two locations (houses present at end of steep slope and sharp curve areas), possibly presenting a safety hazard to drivers and residents along this portion of the roadway. Additional mitigation, such as repairing the roadway and widening at the culvert location, could be necessary to ensure safe traveling through this portion of the roadway, but may still not address

the safety hazard at the steep slope and winding curve areas. The portion of Potter Hill Road, between Campbell Road and Wager Road, was therefore discarded as a viable alternative route.

Access Route #4 – To Wind Turbine Sites T67/T92, T93, T77, T85, T73, T82, T80, T84/T51, T42, T32, T70/T71/T63/T90, T50 and T38: Use Exit 35 off ramp from I-86/NY 17 (WB). Turn right onto CR 70 and travel northbound within the Town of Howard, until the Avery Road intersection, turn left onto Avery Road. Traveling on Avery Road westbound, road becomes Jobs Corners Road (entering the Town of Fremont), turn left onto CR 55 and travel southbound, bear right onto Tuttle Road, turn right for Turbine Site T67 and T92. For the other sites, starting at the Jobs Corners Road/CR 54 and CR 55 intersection, proceed westbound on CR 54, turn right for Turbine Site T93, continue westbound on CR 54, past the Jones Road and Rose Road intersections, turn right for Turbine Site T77. From the Rose Road intersection with CR 54, proceed southbound on Rose Road, turn right for Turbine Site T85, continue traveling southbound on Rose Road, turn left for Turbine Site T73, staying on Rose Road, then a right for Turbine Site T82 and further down, another right for Turbine Site T80. Continuing on Rose Road southbound, turn right onto Back Street, then left for Turbine Sites T84 and T51. Staying on Back Street, continue westbound from the access road for T84/T51, turn left for Turbine Site T42, continue further along Back Street, past the Dutch Road intersection, turn right for Turbine Site T32. At the Back Street and Dutch Road intersection, proceed northbound on Dutch Road, turn right for Turbine Site T70/T71/T63/T90. Back at the Rose Road and Back Street intersection, continue southbound on Rose Road, turn right onto Van Keuren Road, proceed westbound on Van Keuren Road, turn right for Turbine Site T38.

Another route was considered from the I-86/NY 17 Exit 35 interchange. Using the Exit 35 off ramp from I-86/NY 17 (EB), turn right onto CR 70, proceed southbound to CR 70A intersection, turn right onto CR 70A. Continue on CR 70A, bear right at the Starr Hill Road intersection, proceed in a northerly direction to the CR 55 intersection, turn right onto CR 55. Proceed northbound on CR 55, travel on the CR 55 Bridge over I-86/NY 17 to the CR 54/Jobs Corners Road intersection and follow the same directions as discussed under the preferred access route to the turbine sites. This route deemed not feasible due to a bridge (CR 55 over I-86/NY 17) along the route that may not support the Overwidth/Overweight vehicles as well as having two extra turns involving additional mitigation (one intersection would involve removing a church and a public library). Due to the unfeasibility of this route, CR 70A was not included in the local road review.

4.2 ROUTE SEGMENT MITIGATION

Along the potential access routes there are three roads (Holmes Road, Neu Road, and Wagner Road) rated "Poor" that are either used as proposed access routes and/or connect with turbine access roads. These poorly rated roads and three other roads rated "Fair" to "Good" (Avery Road, Jobs Corners Road, and Walters Road) are all gravel roads with a single lane width ranging from 10 to 14 feet, that might need to be widened or traffic control provided to accommodate the Overwidth/Overweight delivery vehicles. The asphalt and gravel roads rated "Fair" to "Good" should be monitored during construction for pot-holing and deterioration of the pavement to ensure they are safe for general construction and local roadway traffic. The volume and weight of both the general

construction traffic and turbine delivery (Overwidth/Overweight) vehicles may cause accelerated distress that could require temporary repair. These temporary repairs/improvements could include repaving with asphalt, adding gravel stone, temporary traffic signs, etc. and be stipulated as a condition of a Road Use Agreement with the local municipalities.

After completion of construction activities, there may be permanent improvements needed after the facility completion, due to any damage caused by the heavy construction vehicle traffic (especially on any roads that had temporary repairs made during the construction activities). The contractor may be required to repair the roadways to pre-construction conditions using the appropriate treatments such as oil & stone, hot or cold mix asphalt or additional gravel as a condition per Road Use Agreement. See Appendix H for Table of Potential Roadway Improvements indicating the segment of road that may need temporary and/or permanent improvements, along with suggested type for the mitigation. See Appendix H for Map of Potential Roadway Improvement and Intersection Improvement Locations.

4.3 ROUTE INTERSECTION MITIGATION

The existing pavement widths of the county and town roads vary from approximately 12 feet to 22 feet wide. The existing radius of the edge of the pavement at a typical intersection is approximately 25 to 50 feet. It is typical that a radius of approximately 135-feet to 150 feet is necessary to accommodate the wheel paths of permit vehicles, while 150 feet or more may be needed for the load clearance of the vehicles. As a result, the temporary widening of the pavement surface with an aggregate roadway surface will be required to accommodate the trucks turning movements at some locations. Additional mitigation may be needed if the length of a turbine blade extends beyond the outer trailer of the delivery vehicle. After the turbine deliveries have been completed, the temporary pavement will be removed and the area restored to its original surface (e.g., lawn).

Depending on the truck hauler, there can be various truck configurations to consider. Each truck that the hauler proposes to use should be evaluated, and the vehicle with the largest turning movement used to determine the design of intersections.

In reference to available information on access road construction, there are formulas that determine the width of clear turning movement needed for the turbine delivery trucks when navigating along curve sections of the roadway. Applying the radius of 150 feet, as mentioned above, and using the mathematical formula (from Gamesa Corp. document dated 5/29/2012) for the longest transport vehicle (turbine blade), the width of the turning radius to accommodate the truck can be determined. Existing pavement surfaces would need to be widened up to three (3) different directions in order to balance the impacts and to attempt to keep the impacts within the existing right of way. Impacts that extend outside of the right of way would require easements and/or land purchases from adjacent property owners.

Existing facilities typically impacted include drainage ditches, culverts, traffic signs, trees, above ground utilities and utility poles. Mitigation usually includes temporary gravel fills, pipe to maintain drainage in the ditched areas, culvert pipe extensions, and the relocation of poles, street signs and other appurtenances.

See Appendix H for the Maps of Intersection Turning Movements showing the 150 foot radius impacts at the various intersections along the designated haul routes. Again, the extent of these intersection radii improvements will also be decided/confirmed under a Road Use Agreement with the local municipalities. See Appendix H for the Table of Intersection Improvements indicating the intersections that may need temporary and/or permanent improvements and suggested type of improvements. Also see Appendix H for the Map of Potential Roadway Improvements and Intersection Improvement Locations.

4.4 EXISTING STRUCTURE/UTILITY MITIGATION

The drainage pipes/culverts along the construction routes that have 2 feet or less of cover may have a potential to be damaged by construction activities causing delays to construction and local traffic. Each pipe should be analyzed during final design of the roadway improvements to determine the amount of cover over the pipe or necessary improvements needed to accommodate the construction traffic. Any necessary improvements may be a condition stipulated under the Road Use Agreement with the local municipalities.

In regard to the bridge and large culvert structures, the preferred access routes have been selected based on avoiding as many deficient bridges and large culverts as possible to prevent additional mitigation. During the Special Hauling Permit application process, the New York State Department of Transportation and Steuben County Public Works Department will be required to review and approve all bridges and culverts to be traversed along the access routes in the construction phase.

At various locations along the construction access routes, there may be low overhead wires present that will need to be raised to accommodate the Overwidth/Overweight delivery vehicles, due to their transport material heights. Coordination with the local utility companies will be needed to obtain the necessary permits to raise the wires.

5.0 CONSTRUCTION TRAFFIC

5.1 CONSTRUCTION VEHICLE VOLUMES

There will be approximately 11 Overwidth/Overweight trucks required for each turbine. Depending on the turbine selected for the Facility, at the most, there could be up to 76 utility-scale wind turbines. For impact calculation purposes, this study will assume that 76 turbines will be required. Other construction equipment trips will include the following:

• Gravel trucks with capacity of approximately 10 cubic yards (cy) per truck and an estimated gross weight of 75,000 pounds (lbs.), for access road construction (currently the total length of the access roads is approximately 113,000 feet long (21.4 miles) and a minimum of 16 feet wide, with gravel 12 inches deep.

- Concrete trucks for construction of turbine foundations and transformer pads with capacity of approximately 10 cy
 per truck and an estimated gross weight of 96,000 lbs. The concrete may range from 500 Tons to 900 Tons
 depending on model and size of turbine selected per location.
- Variety of conventional semi-trailers for delivery of reinforcing steel (two per turbine foundation) and small substation components and interconnection facility material (approximately 152 trucks).
- Variety of conventional vehicles carrying water, fuel oil, bulk fuels (including wood, biomass, coal and municipal solid
 waste), chemicals or hazardous materials for construction or operation of the facility.

Trucks and cars for transporting construction workers, equipment and tools are not included in the above list because they are not significant in regard to traffic volumes and causing any damage to the roads.

There are no specific locations for the stone/sand quarries. An on-site concrete batch plant will be located at the laydown area on the north side of Davis Road, just west of the New Galen Road intersection. All excavation operations for the wind turbine foundations and access roads will have on-site excavation disposal. The high volume of loaded trucks is expected to accelerate deterioration of Access Route #3 pavement between the laydown area (location of concrete batch plant) and the I-390 interchange, which will be addressed by mitigation described in the Road User Agreement with Steuben County and the Towns of Cohocton and Wayland.

The following table below represents an order-of-magnitude estimate of the total number of heavy loaded truck trips entering the Facility area associated with construction of the turbines.

Component/Truck Type	Assumption	Trips
Blades	One blade per truck	456
Towers	4 tower sections per turbine	608
Nacelle and Hub	2 truck trips per turbine	304
Road Construction	Gravel trucks 10 cubic yards per truck, plus other construction equipment.	13516
Crane	Several trips per access point depending on the degree of disassembly.	304
Concrete	250 to 450 cubic yards per foundation, 10 cubic yards per truck. Assume 40 trips per tower.	6080
	Total Heavy Vehicle Trips	21268

Note: trips represent a total number of entering and exiting (2 way) Facility area heavy vehicles.

Existing roadways used for construction access routes that will temporarily experience this additional traffic could potentially have increased risk of vehicle accidents, due to the increase in traffic volumes. New traffic patterns and delays (new construction vehicle entrances on low volume roads, increased heavy truck traffic on these same roads, and delays at the intersections to allow oversized vehicle turning movements) are other factors that could affect safety. Potential routes that exhibited safety concerns (sharp curves, steep grades, restricted sight distance) were identified in this study and eliminated from consideration as viable routes where feasible. The remaining routes that are recommended for use are considered to be able to safely handle the

passage of construction vehicles. Section 2.2 of this report summarized existing accident rates along these routes, which were used to predict the possible effect of additional traffic in regards to safety. The highway with the greatest concentration and frequency of accidents is NYS Route 21, which is proposed to be utilized as Access Route #2 from CR 92 to Derevees Road. The historical data shows that 82% of the accidents were single vehicle collisions caused by either animal action, snow and ice, drunk driving, or hitting roadside fixed objects. None of these are factors that would apply to construction vehicles, so therefore the increase in traffic during construction of the proposed Facility will not exacerbate existing safety deficiencies.

To maintain the safety of all road users, there are preventative measures that can be implemented to reduce the potential risk of accidents during the construction phase of the Facility. Public notifications about the construction of the Facility is one measure that can be provided to warn drivers in advance what to expect when travelling within the construction area.

Overwidth/Overweight vehicles delivering turbine components will have certified escorts and/or police escorts when travelling to the construction sites. Daily construction trucks (concrete, gravel, equipment) typically have amber warning lights and/or construction warning signs attached to the back of the trucks conveying "CONSTRUCTION VEHICLE STAY 500 FEET BACK", "CONSTRUCTION VEHICLE DO NOT FOLLOW", or "SLOW MOVING VEHICLE" to alert motorists. Construction warning signs such as "CONSTRUCTION VEHICLES ENTERING" can be posted in advance of intersections with turbine site access roads to provide awareness of the potential for construction vehicles entering and exiting these sites. When Overwidth/Overweight vehicles are traveling within the facility area and delivery route roadways, existing traffic may experience minor delays as escort vehicles and/or flag persons stop traffic to allow the safe passage of the Overwidth/Overweight vehicles. Additional construction signs such as "BE PREPARED TO STOP" and "FLAGGER AHEAD" can be placed in advance of these areas to provide advance warning to motorists.

Some portions of access routes and intersections may be closed short term while turbine vehicles are travelling through, especially roads with narrow pavement or clearance obstructions. If a closure is necessary, an off-site detour (re-routing traffic around the closure) can be implemented during the road/intersection closure to minimize delay to motorists and reduce the potential risk of accidents. Additional construction signing would be placed along the detour route to guide motorists back to their original destination route. Additional measures can be placed in the contract documents as an Internal Traffic Control Plan for the project. These measures can include implementing a reduced speed limit for construction vehicles, establishing procedures for construction vehicles entering and exiting the work zone, placing time restrictions for construction vehicle travel, coordination with local municipalities and the traveling public on traffic pattern changes, and continued inspection along the access routes for any safety deficiencies during the construction phase. See Appendix I for the Table of Construction Vehicle Volumes and Maps of Construction Vehicle Routes/Trip Volumes along access routes to the wind turbine locations.

5.2 CONSTRUCTION ROUTES LEVEL OF SERVICE

A capacity analysis was performed for the study area using the HCS (Highway Capacity Software) by combining the existing condition traffic volumes and additional construction traffic volumes to estimate the construction route Level of Service during the

construction phase. Level of Service (LOS) is a qualitative measure used to relate the quality of traffic service. LOS is used to analyze highways by categorizing traffic flow and assigning quality levels of traffic based on performance measure like speed, density, etc. North American Highway LOS standards, as described in the Highway Capacity Manual and the AASHTO Geometric Design of Highways and Streets use letter designations of A through F to describe levels of service, with A being the best and F being the worst.

It was assumed that all the turbine sites had the same start and completion date, worked 12 hour days, 6 days a week, 4 weeks per month for a duration of 7 months. The analysis showed that there was very little increase from the Existing Peak Hour Volume compared to the Future Construction Phase Peak Hour Volume. Thus, the Future Construction Phase Level of Service is the same as the Existing Level of Service. Along Access Routes #1, #2, #3, and #4 utilizing State Route 21, County Routes 54, 55, 70, 92, 121, and various town roads, it was determined that all had a Level of Service "A" (Existing and Future). As the existing traffic volumes are low, local traffic flow should not be significantly impacted by the normal construction traffic or during the turbine delivery vehicles. As mentioned in the previous section, local traffic may experience minor delays due to slow moving construction vehicles and increased traffic related to the construction activities. To minimize any delays to local traffic during the construction phase, the Owner/Contractor will be required to coordinate with the State, County and local Municipalities to respond to any locations that may experience any traffic flow or capacity issues. See Appendix B for the Table of Level of Service.

5.3 POST-CONSTRUCTION NEEDS

After construction, the Facility will employ approximately 14 full time employees, all of whom may drive separately to the Operation and Maintenance (O&M) building. Some of these personnel will need to visit each turbine location, as well as the collector sub-station and return to the O&M building. Each turbine and the sub-station typically requires routine maintenance visits once every 3 months, but certain turbines or other facility improvements may require periods of more frequent service visits, should a problem arise. Such service visits typically involve 1 to 2 pick-up trucks. The post-construction traffic will not have a significant impact on the Level of Service for the highway system, or require special transportation considerations, such as building new roads, so in conclusion, there are no long term impacts.

6.0 AIRPORT IMPACTS

6.1 AIRPORT LOCATIONS

There are numerous airports and airstrips located within a 20 mile radius from the outside of the Facility area. One municipal airport operated by the City of Hornell, near the city limits to the southwest and another municipal airport operated by the Town of North Dansville in Dansville, located to the northwest, are within 3.4 miles and 8.7 miles respectively. There is one private heliport, DC Helicopters Heliport, located on Jones Road, just south of the Village of Cohocton, that is the closest airport to the eastern facility

area with a distance of 0.4 miles. This heliport/airport location has a 30 feet by 30 feet square pad for vertical takeoff and landing. There are at least 14 wind turbine locations within 2 miles from this heliport/airport. The closest wind turbine locations are T15, at 0.6 miles and T4, at 0.8 miles, both located west from the heliport landing pad. The next closest turbine locations are location T43 at 1.0 mile and T19 at 1.2 miles south, T11 at 1.1 miles west, T1 at 1.2 miles and T8 at 1.4 miles southwest.

6.2 AIRPORT COORDINATION

The process of coordinating with the two municipality airports, Hornell and Dansville, was started approximately 10 months ago (9/20/2016) by the developer. A call with the Airport Manager, who manages both Airports, was conducted and he indicated that he had no concerns related to the Facility. This conversation was documented in the PIP meeting log. The FAA has issued DNH's for the approximate locations. The FAA review included consultation with the U.S. Department of Defense. See Appendix K for the List of Airports with contact information and for the Map of Regional Airports.

7.0 CONCLUSION

This study has determined the probable local travel routes required for delivery of wind turbine components and construction vehicle transport during the construction of the Baron Winds Facility. The study also assesses any impacts to the highway system and road users, both short term (construction) and long-term (post-construction). Various potential intersection and roadway segment improvements and mitigation have been identified. Final engineering design and/or Road Use Agreements will be required prior to construction activities to confirm that all transportation related impacts will be addressed to the satisfaction of the State, County and local highway departments. The State, County and town municipalities will also be involved with the final routing of the Overwidth/Overweight vehicle loads during the hauling permit process. Based on the information contained in this study, there are no identified significant transportation related issues that cannot be mitigated by means described in this report, including road user agreement stipulations yet to be defined, so it is recommended to utilize the travel routes identified in this report, as it is feasible, for routing of transport, construction, and maintenance vehicles.

APPENDIX A

Map of Regional Facility Location

Map of Facility Area

Map of Access Route Locations



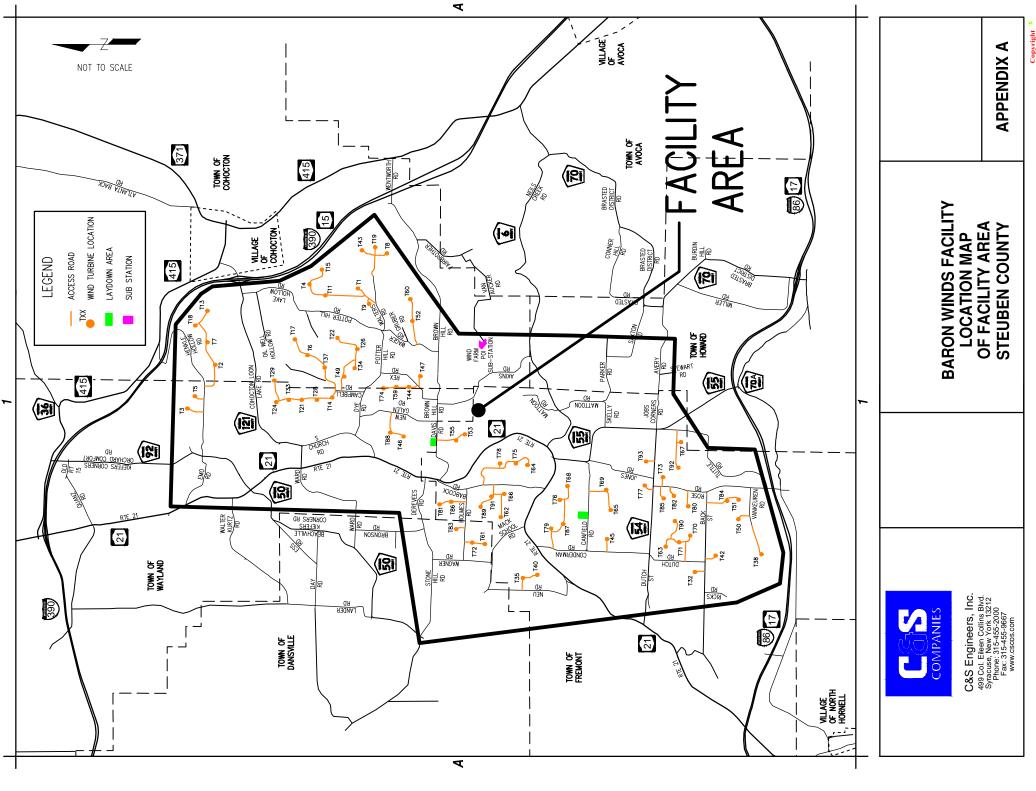


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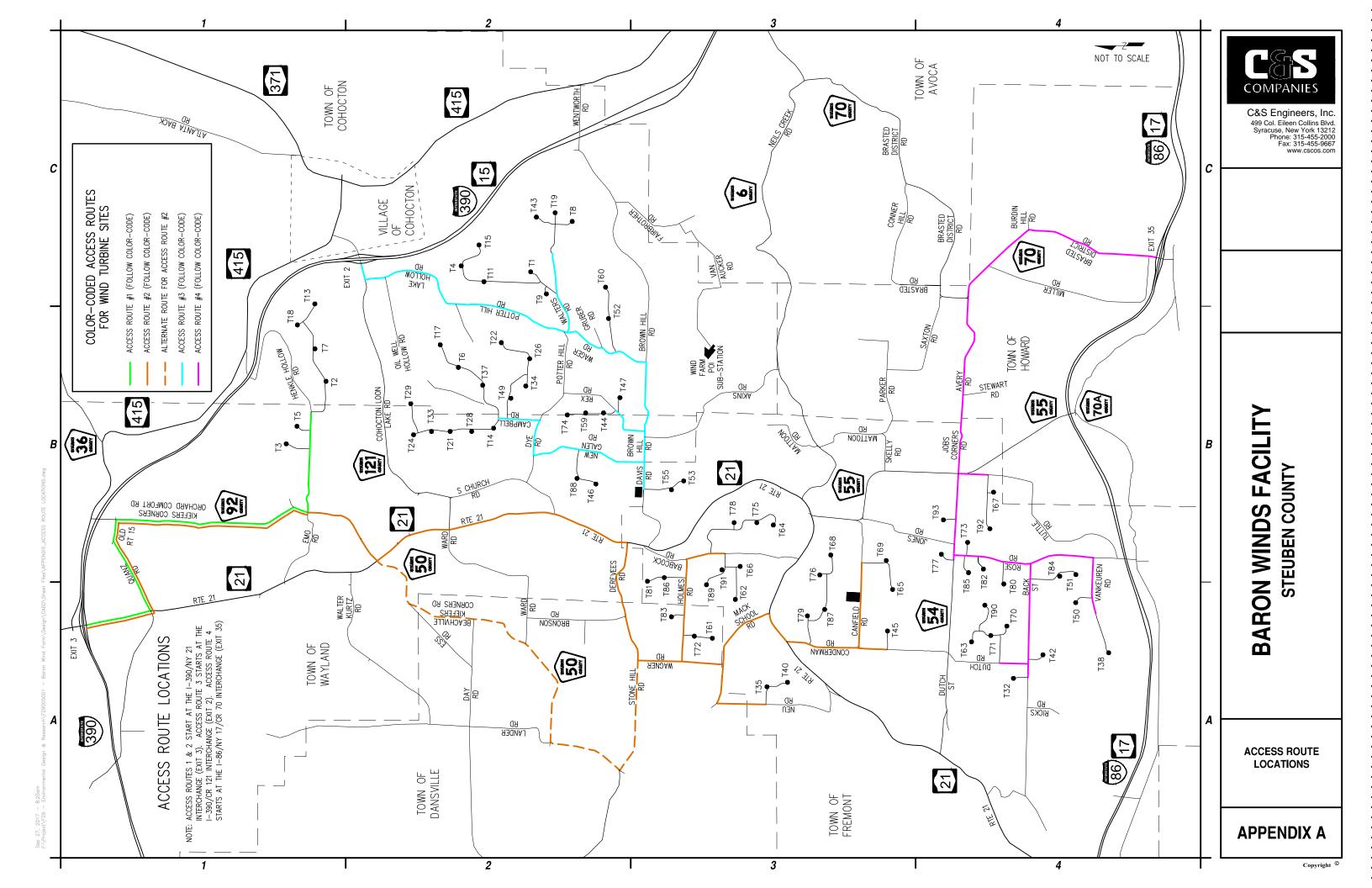
C&S Engineers, Inc. 499 Col. Eileen Collins Blvd. Syracuse. New York 13212 Phone: 315-455-2000 Fax: 315-459-9667 www.cscos.com

BARON WINDS FACILITY REGIONAL LOCATION MAP

APPENDIX A



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APPENDIX B

Table of Existing Traffic Volumes

Table of Level of Service

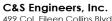


APPENDIX B

BARON WINDS FACILITY

ROADWAY TRAFFIC VOLUMES

		RO	ADWAY TRAFFIC VOLUME	ES				
ROUTE/ROAD NAME	DIRECTION	FROM	то	LENGTH (MI)	TOWN(S)	AADT VOLUME	AADT TOTAL	COUNT STATION
NY 21	SB NB	I-390/NY 15 INTERCHANGE CR 121	CR 121 I-390/NY 15 INTERCHANGE	4.3	WAYLAND	1104 1122	2226	640089 (2015)
NY 21	SB	CR 121	CR 6	4.5	WAYLAND/FREMONT	923	1808	640088
NY 21	NB SB	CR 6 CR 6	CR 121 CONDERMAN RD	1.9	FREMONT	885 1126	2280	(2010) 640086
CR 50 BEACHVILLE-	NB SB	CONDERMAN RD NY 21	CR 6 DANSVILLE TOWN LINE			1154 72		(2014) 648084
KIEFERS CORNERS RD	NB	DANSVILLE TOWN LINE	NY 21	0.8	WAYLAND	71	143	(2013)
CR 50 BEACHVILLE- KIEFERS CORNERS RD	SB NB	WAYLAND TOWN LINE STONE HILL RD	STONE HILL RD WAYLAND TOWN LINE	3.5	DANSVILLE	75 75	150 (EST.)	N/A
CR 54 DUTCH STREET	EB WB	CONDERMAN RD CR 55	CR 55 CONDERMAN RD	2	FREMONT	63 64	127	648087 (2013)
CR 55 BACON SCHOOL- HASKINVILLE RD	SB	STEWART RD	NY 21	3.5	FREMONT/HOWARD	88 89	177	648088 (2005)
CR 70 BRASTED DISTRICT	NB SB	NY 21 AVOCA TOWN LINE	STEWART RD I-86/NY 17 INTERCHANGE	2.7	HOWARD	61	123	648114
RD CR 92 KIEFERS CORS-	NB SB	I-86/NY 17 INTERCHANGE NY 21	AVOCA TOWN LINE ANTLERS INN RD	0.7	WAYLAND	62 181		(2005) 648151
ORCHARD COMFORT	NB	ANTLERS INN RD	NY 21	0.7	WATLAND	181	362	(2005)
CR 92 KIEFERS CORS- ORCHARD COMFORT	SB NB	OLD ROUTE 15 ANTLERS INN RD	ANTLERS INN RD OLD ROUTE 15	2.6	WAYLAND	93 93	186	648152 (2005)
CR 121 COHOCTON- LOON LAKE RD	EB WB	NY 21 I-390/NY 15 INTERCHANGE	I-390/NY 15 INTERCHANGE NY 21	3.5	WAYLAND/COHOCTON	422 423	845	648192 (2005)
QUANZ RD	EB WB	NY 21 OLD ROUTE 15	OLD ROUTE 15 NY 21	0.9	WAYLAND	25 25	50 (EST.)	N/A
OLD ROUTE 15	EB	QUANZ RD	CR 92	0.2	WAYLAND	15	30	N/A
EMO RD	WB EB	CR 92 NY 21	QUANZ RD COHOCTON TOWN LINE	2.2	WAYLAND	15 25	(EST.) 50	N/A
	WB EB	COHOCTON TOWN LINE LANDER RD	NY 21 NY 21	2.2		25 35	(EST.) 70	
WALTER KURTZ RD	WB	NY 21	LANDER RD	2.3	WAYLAND/DANSVILLE	35	(EST.)	N/A
S CHURCH RD	SB NB	CR 121 NY 21	NY 21 CR 121	1.4	WAYLAND	25 25	50 (EST.)	N/A
DYE RD	EB WB	S CHURCH RD COHOCTON TOWN LINE	COHOCTON TOWN LINE S CHURCH RD	0.7	WAYLAND	40 40	80 (EST.)	N/A
CAMPBELL RD	SB NB	OIL WELL HOLLOW RD DYE RD	DYE RD OIL WELL HOLLOW RD	0.7	WAYLAND/COHOCTON	4	8 (EST.)	N/A
NEW GALEN RD	SB NB	DYE RD DAVIS RD	DAVIS RD DYE RD	1.3	WAYLAND	40 40	80 (EST.)	N/A
DEREVEES RD	EB	BRONSON RD	NY 21	0.9	WAYLAND/FREMONT/DA	35	70	N/A
REX RD	WB SB	NY 21 POTTER HILL RD	BRONSON RD BROWN HILL RD	1.2	NSVILLE WAYLAND/COHOCTON	35 5	(EST.) 10	N/A
	NB SB	BROWN HILL RD CR 121	POTTER HILL RD POTTER HILL RD		,	5 60	(EST.) 120	
LAKE HOLLOW RD	NB	POTTER HILL RD	CR 121	1.2	COHOCTON	60	(EST.)	N/A
POTTER HILL RD	SB/WB NB/EB	LAKE HOLLOW RD WAYLAND TOWN LINE	WAYLAND TOWN LINE LAKE HOLLOW RD	2.3	COHOCTON	45 45	90 (EST.)	N/A
WAGER RD	SB/WB NB/EB	POTTER HILL RD BROWN HILL RD	BROWN HILL RD POTTER HILL RD	1.1	COHOCTON	30 30	60 (EST.)	N/A
WALTERS RD	EB WB	WAGER RD DEAD END	DEAD END WAGER RD	1	COHOCTON	5 5	10 (EST.)	N/A
BROWN HILL RD	EB WB	NEW GALEN RD WAGER RD	WAGER RD NEW GALEN RD	1.1	WAYLAND/COHOCTON	50 50	100 (EST.)	N/A
DAVIS RD	EB	NY 21	NEW GALEN RD	1.3	FREMONT/WAYLAND	30	60	N/A
BRASTED RD	WB SB	NEW GALEN RD AVOCA TOWN LINE	NY 21 CR 70	0.3	HOWARD	30 15	(EST.) 30	N/A
	NB EB	CR 70 PARKER RD	AVOCA TOWN LINE CR 70			15 17	(EST.) 35	,
SAXTON RD	WB EB	CR 70 MATTOON RD	PARKER RD SAXTON RD	1.3	HOWARD	18 (ES		N/A
PARKER RD	WB	SAXTON RD	MATTOON RD	ATTOON RD 0.8 FREMONT/HOWARD 10		10	20 (EST.)	N/A
AVERY RD	EB WB	EB FREMONT TOWN LINE CR 70 1.4 HOWARD 10 WB CR 70 FREMONT TOWN LINE 1.4 HOWARD 10			20 (EST.)	N/A		
MILLER RD	SB NB	CR 70 (NORTH) CR 70 (SOUTH)	CR 70 (SOUTH) CR 70 (NORTH)	2.3	HOWARD	12 13	25 (EST.)	N/A
BABCOCK RD	SB	NY 21 (NORTH)	NY 21 (SOUTH)	1.8	FREMONT	12	25	N/A
	NB	NY 21 (SOUTH)	NY 21 (NORTH)			13	(EST.)	





APPENDIX B

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BARON WINDS FACILITY

ROADWAY TRAFFIC VOLUMES (CONTINUED)

ROUTE/ROAD NAME	DIRECTION	FROM	ТО	LENGTH (MI)	TOWN(S)	AADT VOLUME	AADT TOTAL	COUNT
	SB	DEAD END	SKELLY RD	` ′		7		646422
MATTOON RD	NB	SKELLY RD	DEAD END	1.1	FREMONT	7	14	(2010)
	EB	CR 55	MATTOON RD			10	20	` ,
SKELLY RD	WB	MATTOON RD	CR 55	0.4	FREMONT	10	(EST.)	N/A
1000 00011500 00	EB	CR 55	HOWARD TOWN LINE	0.6	EDEL LOUIT	5	10	
JOBS CORNERS RD	WB	HOWARD TOWN LINE	CR 55	0.6	FREMONT	5	(EST.)	N/A
CONDEDNAMED	SB	NY 21	CR 54	1.0	FDEMONIT	20	40	NI/A
CONDERMAN RD	NB	CR 54	NY 21	1.8	FREMONT	20	(EST.)	N/A
CANFIELD RD	EB	CONDERMAN RD	CR 55	1.5	FREMONT	20	40	N/A
CANFIELD RD	WB	CR 55	CONDERMAN RD	1.5	FREIVIONI	20	(EST.)	N/A
JONES RD	SB	CR 55	CR 54	1.1	FREMONT	15	30	N/A
JOINES KD	NB	CR 54	CR 55	1.1	FREIVIONT	15	(EST.)	IN/A
ROSE RD	SB	CR 54	TUTTLE RD	1.8	FREMONT	37	74	646418
NO3E ND	NB	TUTTLE RD	CR 54	1.0	FREIVIONT	37	74	(2010)
BACK ST	EB	RICKS RD	ROSE RD	1.6	FREMONT	10	20	N/A
DACK 31	WB	ROSE RD	RICKS RD	1.0	FREIVIONT	10	(EST.)	IN/ A
DUTCH RD	SB	CR 54	BACK ST	0.9	FREMONT	10	20	N/A
DOTCH KD	NB	BACK ST	CR 54	0.9	FREIVIONT	10	(EST.)	IN/A
TUTTLE RD	SB	CR 55	ROSE RD	2.4	FREMONT/HOWARD	20	40	N/A
TOTTLE KD	NB	ROSE RD	CR 55	2.4	FREINION I/HOWARD	20	(EST.)	IN/A
VAN KEUREN RD	EB	DEAD END	ROSE RD	0.6	FREMONT	5	11	646419
VAN KEUREN KU	WB	ROSE RD	DEAD END	0.6	FREIVIONT	6	11	(2010)
NEU RD	SB	MACK SCHOOL RD	RIDER RD	1.5	FREMONT/DANSVILLE	5	10	N/A
NEO ND	NB	RIDER RD	MACK SCHOOL RD	1.5	TREINIONT/ DANSVILLE	5	(EST.)	IN/ A
MACK SCHOOL RD	EB	NEU RD	NY 21	1.3	FREMONT/DANSVILLE	20	40	N/A
WACK SCHOOL ND	WB	NY 21	NEU RD	1.5	TREINIONT/ DANSVILLE	20	(EST.)	IN/ A
HOLMES RD	EB	WAGNER RD	BABCOCK RD	1.2	DANSVILLE/FREMONT	7	15	N/A
HOLIVILS ND	WB	BABCOCK RD	WAGNER RD	1.2	DANSVILLE/TINEIVIONT	8	(EST.)	IN/A
WAGNER RD	SB	STONE HILL RD	MACK SCHOOL RD	1.0	DANSVILLE	10	20	N/A
WAGNERRD	NB	MACK SCHOOL RD	STONE HILL RD	1.0	DANSVILLE	10	(EST.)	IN/A
STONE HILL RD	EB	CR 50	BRONSON RD	1.8	DANSVILLE	30	60	N/A
310INE HILL ND	WB	BRONSON RD	CR 50	1.0	DANSVILLE	30	(EST.)	IV/A
LANDER RD	SB	WALTER KURTZ RD	CR 50	1.5	DANSVILLE	15	30	N/A
LANDER RD	NB	CR 50	WALTER KURTZ RD	1.5	DAINSVILLE	15	(EST.)	IN/A



APPENDIX B

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BARON WINDS FACILITY

TRAFFIC LEVEL OF SERVICE (LOS) TABLE

		I KAFFIC LEVEL	OF SERVICE (LOS) TABLE			
ROUTE/ROAD NAME	DIRECTION	FROM	то	LENGTH (MI)	TOWN(S)	EXISTING & FUTURE LOS
NY 21	SB NB	I-390/NY 15 INTERCHANGE CR 121	CR 121 I-390/NY 15 INTERCHANGE	4.3	WAYLAND	А
NY 21	SB NB	CR 121 CR 6	CR 6 CR 121	4.5	WAYLAND/FREMONT	А
NY 21	SB NB	CR 6 CONDERMAN RD	CONDERMAN RD CR 6	1.9	FREMONT	А
CR 50 BEACHVILLE- KIEFERS CORNERS RD	SB NB	NY 21 DANSVILLE TOWN LINE	DANSVILLE TOWN LINE NY 21	0.8	WAYLAND	А
CR 50 BEACHVILLE- KIEFERS CORNERS RD	SB NB	WAYLAND TOWN LINE STONE HILL RD	STONE HILL RD WAYLAND TOWN LINE	3.5	DANSVILLE	А
CR 54 DUTCH STREET	EB WB	CONDERMAN RD CR 55	CR 55 CONDERMAN RD	2	FREMONT	А
CR 55 BACON SCHOOL- HASKINVILLE RD	SB NB	STEWART RD NY 21	NY 21 STEWART RD	3.5	FREMONT/HOWARD	А
CR 70 BRASTED DISTRICT RD	SB NB	AVOCA TOWN LINE I-86/NY 17 INTERCHANGE	I-86/NY 17 INTERCHANGE AVOCA TOWN LINE	2.7	HOWARD	А
CR 92 KIEFERS CORS- ORCHARD COMFORT	SB NB	NY 21 ANTLERS INN RD	ANTLERS INN RD NY 21	0.7	WAYLAND	А
CR 92 KIEFERS CORS- ORCHARD COMFORT	SB NB	OLD ROUTE 15 ANTLERS INN RD	ANTLERS INN RD OLD ROUTE 15	2.6	WAYLAND	А
CR 121 COHOCTON- LOON LAKE RD	EB WB	NY 21 I-390/NY 15 INTERCHANGE	I-390/NY 15 INTERCHANGE NY 21	3.5	WAYLAND/COHOCTON	А
QUANZ RD	EB WB	NY 21 OLD ROUTE 15	OLD ROUTE 15 NY 21	0.9	WAYLAND	А
OLD ROUTE 15	EB WB	QUANZ RD CR 92	CR 92 QUANZ RD	0.2	WAYLAND	А
EMO RD	EB WB	NY 21 COHOCTON TOWN LINE	COHOCTON TOWN LINE NY 21	2.2	WAYLAND	А
WALTER KURTZ RD	EB WB	LANDER RD NY 21	NY 21 LANDER RD	2.3	WAYLAND/DANSVILLE	А
S CHURCH RD	SB NB	CR 121 NY 21	NY 21 CR 121	1.4	WAYLAND	А
DYE RD	EB WB	S CHURCH RD COHOCTON TOWN LINE	COHOCTON TOWN LINE S CHURCH RD	0.7	WAYLAND	А
CAMPBELL RD	SB NB	OIL WELL HOLLOW RD DYE RD	DYE RD OIL WELL HOLLOW RD	0.7	WAYLAND/COHOCTON	А
NEW GALEN RD	SB NB	DYE RD DAVIS RD	DAVIS RD DYE RD	1.3	WAYLAND	А
DEREVEES RD	EB WB	BRONSON RD NY 21	NY 21 BRONSON RD	0.9	WAYLAND/FREMONT/DA NSVILLE	А
REX RD	SB NB	POTTER HILL RD BROWN HILL RD	BROWN HILL RD POTTER HILL RD	1.2	WAYLAND/COHOCTON	А
LAKE HOLLOW RD	SB NB	CR 121 POTTER HILL RD	POTTER HILL RD CR 121	1.2	COHOCTON	А
POTTER HILL RD	SB/WB NB/EB	LAKE HOLLOW RD WAYLAND TOWN LINE	WAYLAND TOWN LINE LAKE HOLLOW RD	2.3	COHOCTON	А
WAGER RD	SB/WB NB/EB	POTTER HILL RD BROWN HILL RD	BROWN HILL RD POTTER HILL RD	1.1	соностои	А
WALTERS RD	EB WB	WAGER RD DEAD END	DEAD END WAGER RD	1	соностом	А
BROWN HILL RD	EB WB	NEW GALEN RD WAGER RD	WAGER RD NEW GALEN RD	1.1	WAYLAND/COHOCTON	А
DAVIS RD	EB WB	NY 21 NEW GALEN RD	NEW GALEN RD NEW GALEN RD NY 21	1.3	FREMONT/WAYLAND	А
BRASTED RD	SB	AVOCA TOWN LINE CR 70	CR 70 AVOCA TOWN LINE	0.3	HOWARD	А
	NB	CR /U	AVOCA TOWN LINE	1		<u> </u>



APPENDIX B

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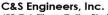
BARON WINDS FACILITY

TRAFFIC LEVEL OF SERVICE (LOS) TABLE (CONTINUED)

ROUTE/ROAD NAME	DIRECTION	FROM	то	LENGTH (MI)	TOWN(S)	EXISTING 8 FUTURE LO
SAXTON RD	EB	PARKER RD	CR 70	1.3	HOWARD	А
5700101010	WB	CR 70	PARKER RD	1.5	1101771115	,,
PARKER RD	EB	MATTOON RD	SAXTON RD	0.8	FREMONT/HOWARD	Α
TARRENTA	WB	SAXTON RD	MATTOON RD	0.0	TREMONITHOWARD	
AVERY RD	EB	FREMONT TOWN LINE	CR 70	1.4	HOWARD	А
AVENTIND	WB	CR 70	FREMONT TOWN LINE	1.4	HOWARD	A
MILLER RD	SB	CR 70 (NORTH)	CR 70 (SOUTH)	2.3	HOWARD	Α
WILLER ND	NB	CR 70 (SOUTH)	CR 70 (NORTH)	2.3	HOWARD	Α
BABCOCK RD	SB	NY 21 (NORTH)	NY 21 (SOUTH)	1.8	FREMONT	Α
BABCOCK ND	NB	NY 21 (SOUTH)	NY 21 (NORTH)	1.0	FREIVIOIVI	A
MATTOON DD	SB	DEAD END	SKELLY RD	1.1	FDEMONIT	۸
MATTOON RD	NB	SKELLY RD	DEAD END	1.1	FREMONT	Α
CVELLY DD	EB	CR 55	MATTOON RD	0.4	FREMONT	
SKELLY RD	WB	MATTOON RD	CR 55	0.4	FREMONT	Α
	EB	CR 55	HOWARD TOWN LINE			
JOBS CORNERS RD	WB	HOWARD TOWN LINE	CR 55	0.6	FREMONT	Α
	SB	NY 21	CR 54			
CONDERMAN RD	NB	CR 54	NY 21	1.8	FREMONT	Α
	EB	CONDERMAN RD	CR 55			
CANFIELD RD	WB	CR 55	CONDERMAN RD	1.5	FREMONT	Α
	SB	CR 55	CR 54			
JONES RD	NB	CR 54	CR 55	1.1	FREMONT	Α
	SB	CR 54	TUTTLE RD			
ROSE RD	NB	TUTTLE RD	CR 54	1.8	FREMONT	Α
	EB	RICKS RD	ROSE RD			
BACK ST	WB	ROSE RD	RICKS RD	1.6	FREMONT	Α
	SB	CR 54	BACK ST			
DUTCH RD	NB	BACK ST	CR 54	0.9	FREMONT	Α
	SB	CR 55	ROSE RD			
TUTTLE RD	NB	ROSE RD	CR 55	2.4	FREMONT/HOWARD	Α
	EB	DEAD END	ROSE RD			
VAN KEUREN RD	WB	ROSE RD	DEAD END	0.6	FREMONT	Α
	SB	MACK SCHOOL RD	RIDER RD			
NEU RD	NB	RIDER RD	MACK SCHOOL RD	1.5	FREMONT/DANSVILLE	Α
	EB	NEU RD	NY 21			
MACK SCHOOL RD	WB	NY 21	NEU RD	1.3	FREMONT/DANSVILLE	Α
	EB	WAGNER RD	BABCOCK RD			
HOLMES RD	WB	BABCOCK RD	WAGNER RD	1.2	DANSVILLE/FREMONT	Α
	SB	STONE HILL RD	MACK SCHOOL RD			
WAGNER RD	NB	MACK SCHOOL RD	STONE HILL RD	1.0	DANSVILLE	Α
	EB	CR 50	BRONSON RD			
STONE HILL RD	WB			1.8	DANSVILLE	Α
		BRONSON RD	CR 50 CR 50			
LANDER RD	SB	WALTER KURTZ RD		1.5	DANSVILLE	Α
	NB	CR 50	WALTER KURTZ RD			

APPENDIX C

Table of Existing Accident Data



APPENDIX C

C&S Engineers, Inc. 499 Col. Eileen Collins Blvd. Syracuse, New York 13212 Phone: 315-455-2000 Fax: 315-455-9667 www.cscos.com

BARON WINDS FACILITY

EXISTING ACCIDENT DATA TABLE

ROUTE/ROAD NAME	FROM	то	LENGTH (MI)	TOWN(S)	TOTAL ACCIDENTS (9/2013- 8/2016)	NON- INTERSECTION ACCIDENTS	INTERSECTION ACCIDENTS	SAFETY DEFICIENT LOCATIONS (SDL)	PRIORITY INVESTIGATION LOCATIONS (PIL) & YEAR	ACCIDENT RATE (ACC/MVM)	NY STATEWIDE AVG. RATE
NY 21	I-390/NY 15 RAMP	CR 50/CR 92	3.5	WAYLAND	28	25	3	NONE	NONE	3.28	2.81
NY 21	CR 50/CR 92	DAVIS ROAD	3.2	WAYLAND/FREMONT	29	25	4	NONE	1 (2013)	4.59	2.81
NY 21	DAVIS ROAD	CR 54/DUTCH STREET	6.2	FREMONT	34	30	4	NONE	NONE	2.44	2.81
CR 50	STONE HILL RD	NY 21	4.3	DANSVILLE/WAYLAND	3	2	1	UNKNOWN	UNKNOWN	4.45	2.81
CR 54	NY 21	CR 55	3.2	FREMONT	1	1	0	UNKNOWN	UNKNOWN	2.02	2.81
CR 55	STEWART RD	NY 21	3.5	FREMONT/HOWARD	5	5	0	UNKNOWN	UNKNOWN	7.51	2.81
CR 70	I-86/NY 17	CONNER HILL RD	4.6	HOWARD/AVOCA	7	5	2	UNKNOWN	UNKNOWN	10.18	2.81
CR 92	OLD ROUTE 15	NY 21	3.3	WAYLAND	4	4	0	UNKNOWN	UNKNOWN	5.80	2.81
CR 121	NY 21	1-390	3.5	WAYLAND/COHOCTON	14	13	1	UNKNOWN	UNKNOWN	4.35	2.81
DAVIS ROAD	NY 21	NEW GALEN RD	1.3	FREMONT/WAYLAND	1	0	1	UNKNOWN	UNKNOWN	UNKNOWN	2.81
EMO ROAD	NY 21	HENCLE HOLLOW RD	2.2	WAYLAND	2	2	0	UNKNOWN	UNKNOWN	UNKNOWN	2.81
JONES ROAD	CR 54	CR 55	1.1	FREMONT	1	1	0	UNKNOWN	UNKNOWN	UNKNOWN	2.81
LANDER ROAD	CR 50	WALTER KURTZ ROAD	1.5	DANSVILLE	1	0	1	UNKNOWN	UNKNOWN	UNKNOWN	2.81
SAXTON ROAD	PARKER RD	CR 70	1.3	HOWARD	1	1	0	UNKNOWN	UNKNOWN	UNKNOWN	2.81
STONE HILL ROAD	CR 50	BRONSON ROAD	1.9	DANSVILLE	1	1	0	UNKNOWN	UNKNOWN	UNKNOWN	2.81
WALTER KURTZ RD	LANDER ROAD	NY 21	2.3	DANSVILLE/WAYLAND	1	1	0	UNKNOWN	UNKNOWN	UNKNOWN	2.81

NOTE: NO REPORTABLE ACCIDENTS FOR THE REMAINING LOCAL TOWN ROADS WITHIN THE FACILITY AREA

APPENDIX D

Table of Existing School Bus Routes

CGS

APPENDIX D

BARON WINDS FACILITY

N 21 1-3000/WES				EXISTING SCHOOL B	US ROUTE INFORMAT	ION					
1930/1971 1930							BUS ROUTE		BUS ROUTE		NOON BUS
MY	ROUTE/ROAD NAME	FROM	TO	TOWN(S)	SCHOOL DISTRICT		TIME SPAN		TIME SPAN		TIME SPAN
THE SERVICE SE	NY 21	· ·	CR 121	WAYLAND	WAYLAND-COHOCTON	3		NONE	NONE	3	2:45 PM TO 4:15 PM
MATERIANCE MATERIAN MATERIAN MATERIAN CONCION MATERIAN CONCI	NY 21	CR 121		WAYLAND/FREMONT	WAYLAND-COHOCTON	2		NONE	NONE	2	2:45 PM TO 4:15 PM
WALTER CRITER BY 12 STANDAYS SERVICE S		NY 21	LANDER RD	WAYLAND	WAYLAND-COHOCTON	1		NONE	NONE	1	2:50 PM TO 3:50 PM
ADDITION DIRECTOR TOTAL THE DELINAGE WAYLANDOCCINETOR WAYLANDOCCINETOR 2 25 PATE		NY 21	OLD ROUTE 15	WAYLAND	WAYLAND-COHOCTON	2		NONE	NONE	2	2:50 PM TO 3:50 PM
QUANCE NO		NY 21	, , , , , , , , , , , , , , , , , , ,	WAYLAND/COHOCTON	WAYLAND-COHOCTON	2		NONE	NONE	2	2:45 PM TO 4:00 PM
MONITOR MONITOR CLOSED	QUANZ RD	NY 21	OLD ROUTE 15	WAYLAND	WAYLAND-COHOCTON	2		NONE	NONE	2	2:45 PM TO 4:00 PM
MALTER KURTZ RD MAYEAN MAY	OLD ROUTE 15	QUANZ RD	CR 92	WAYLAND	WAYLAND-COHOCTON	2		NONE	NONE	2	2:45 PM TO 4:00 PM
SCHURCH RD	EMO RD	NY 21		WAYLAND	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
DYERD SCHURCH RD COHOCTON TOWN WAYLAND WAYLAND COHOCTON NONE	WALTER KURTZ RD	LANDER RD	NY 21	WAYLAND/DANSVILLE	WAYLAND-COHOCTON	2		NONE	NONE	2	3:00 PM TO 4:00 PM
OFFICE ADDRESS CONTINE NO.	S CHURCH RD	CR 121	NY 21	WAYLAND	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
NONE OF NONE NONE NONE NONE NONE NONE NO	DYE RD	S CHURCH RD		WAYLAND	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
DEREVEES RD BRONSON RD NY 21 WAYLAND/FREMONTY DANSVILLE TY DANSVILLE WAYLAND/COHOCTON NONE	CAMPBELL RD		DYE RD	WAYLAND/COHOCTON	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
BIONESON ID	NEW GALEN RD	DYE RD	DAVIS RD	WAYLAND	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
LAKE HOLLOW RD	DEREVEES RD	BRONSON RD	NY 21		WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
POTTER HILL RD	REX RD	POTTER HILL RD	BROWN HILL RD	WAYLAND/COHOCTON	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
WATER RILL RD	LAKE HOLLOW RD	CR 121	POTTER HILL RD	COHOCTON	WAYLAND-COHOCTON	1		NONE	NONE	1	3:15 PM TO 4:00 PM
WALTERS RD WAGER RD DEAD END COHOCTON WAYLAND-COHOCTON NONE AUDOPM STONE HILL RD WAGER RD BRONSON RD DANSVILLE WAYLAND-COHOCTON NONE	POTTER HILL RD	LAKE HOLLOW RD		соностои	WAYLAND-COHOCTON	1		NONE	NONE	1	3:00 PM TO 4:00 PM
BROWN HILL RD NEW GALEN RD WAGER RD COHOCTON WAYLAND-COHOCTON 1 6:30 AM TO 8:00 AM 8:00 A	WAGER RD	POTTER HILL RD	BROWN HILL RD	соностои	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
STONE HILL RD	WALTERS RD	WAGER RD	DEAD END	соностои	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
HOLMES RD	BROWN HILL RD	NEW GALEN RD	WAGER RD	соностои	WAYLAND-COHOCTON	1		NONE	NONE	1	3:00 PM TO 4:00 PM
WAGNER RD STONE HILL RD HOLMES RD DANSVILLE WAYLAND-COHOCTON NONE AUGA 4:00 PM BRASTED RD AVOCA TOWN LINE CR 70 HOWARD AVOCA NONE NONE <td>STONE HILL RD</td> <td>WAGNER RD</td> <td>BRONSON RD</td> <td>DANSVILLE</td> <td>WAYLAND-COHOCTON</td> <td>NONE</td> <td>NONE</td> <td>NONE</td> <td>NONE</td> <td>NONE</td> <td>NONE</td>	STONE HILL RD	WAGNER RD	BRONSON RD	DANSVILLE	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
BABCOCK RD NY 21 (NORTH) 0.6 MILES NORTH OF NY 21 (SOUTH) FREMONT WAYLAND-COHOCTON NONE NONE <td>HOLMES RD</td> <td>WAGNER RD</td> <td>BABCOCK RD</td> <td>DANSVILLE/FREMONT</td> <td>WAYLAND-COHOCTON</td> <td>NONE</td> <td>NONE</td> <td>NONE</td> <td>NONE</td> <td>NONE</td> <td>NONE</td>	HOLMES RD	WAGNER RD	BABCOCK RD	DANSVILLE/FREMONT	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
BABCOCK RD	WAGNER RD	STONE HILL RD	HOLMES RD	DANSVILLE	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
BRASTED RD AVOCA TOWN LINE CR 70 HOWARD AVOCA NONE NONE NONE NONE NONE NONE NONE NON	BABCOCK RD	NY 21 (NORTH)		FREMONT	WAYLAND-COHOCTON	NONE	NONE	NONE	NONE	NONE	NONE
SAXTON RD PARKER RD CR 70 HOWARD AVOCA NONE NONE NONE NONE NONE NONE NONE PARKER RD FREMONT TOWN LINE AVOCA TOWN LINE CR 70 HOWARD AVOCA NONE NONE NONE NONE NONE NONE NONE NON	LANDER RD	WALTER KURTZ RD	CR 50	DANSVILLE	WAYLAND-COHOCTON	2		NONE	NONE	2	3:00 PM TO 4:00 PM
PARKER RD FREMONT TOWN LINE HOWARD AVOCA NONE NONE NONE NONE NONE NONE NONE NON	BRASTED RD	AVOCA TOWN LINE	CR 70	HOWARD	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
AVERY RD LINE AVOCA TOWN LINE HOWARD AVOCA NONE NONE NONE NONE NONE NONE NONE NON	SAXTON RD	PARKER RD	CR 70	HOWARD	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
MILLER RD CR 70 (NORTH) CR 70 (SOUTH) HOWARD AVOCA NONE NONE NONE NONE NONE NONE NONE NON	PARKER RD		AVOCA TOWN LINE	HOWARD	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
CR 70 BRASTED DISTRICT RD INTERCHANGE LINE/BRASTED RD HOWARD AVOCA 1 7:00 AM TO SECULT RD INTERCHANGE LINE/BRASTED RD FREMONT AVOCA 1 7:00 AM TO SECULT RD ROME 1 3:00 PM TO SECULT RD ROME REMONT AVOCA 1 7:00 AM TO SECULT RD ROME REMONE REMO	AVERY RD		CR 70	HOWARD	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
DISTRICT RD INTERCHANGE LINE/BRASTED RD HOWARD AVOCA 1 8:00 AM NONE 1 4:00 PM MATTOON RD SKELLY RD DEAD END FREMONT AVOCA 1 7:00 AM TO 8:00 AM NONE NONE 1 3:00 PM TO 4:00 PM SKELLY RD CR 55 MATTOON RD FREMONT AVOCA NONE NONE NONE NONE NONE NONE NONE NON	MILLER RD	CR 70 (NORTH)	CR 70 (SOUTH)	HOWARD	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
MATTOON RD SKELLY RD DEAD END FREMONT AVOCA 1 8:00 AM NONE NONE 1 4:00 PM SKELLY RD CR 55 MATTOON RD FREMONT AVOCA NONE NONE NONE NONE NONE NONE NONE JOBS CORNERS RD CR 55 HOWARD TOWN LINE FREMONT AVOCA NONE NONE NONE NONE NONE NONE NONE CR 55 BACON SCHOOL-HOWARD TOWN LINE FREMONT AVOCA 1 7:00 AM TO 1:00 AM TO 1:00 PM AVOCA 1 7:00 AM TO 1:00 PM AVOCA 1 7:00 AM TO 1:00 PM AVOCA 1 1:00 PM				HOWARD	AVOCA	1		NONE	NONE	1	3:00 PM TO 4:00 PM
JOBS CORNERS RD CR 55 HOWARD TOWN LINE FREMONT AVOCA NONE NONE NONE NONE NONE NONE CR 55 BACON SCHOOL- HOWARD TOWN LINE NY 21 FREMONT AVOCA 1 7:00 AM TO 8:00 AM NONE NONE 1 3:00 PM TO 4:00 PM	MATTOON RD	SKELLY RD	DEAD END	FREMONT	AVOCA	1		NONE	NONE	1	3:00 PM TO 4:00 PM
TORS CORNERS RD CR 55 LINE FREMONT AVOCA NONE NONE NONE NONE NONE NONE NONE CR 55 BACON SCHOOL-HOWARD TOWN LINE NY 21 FREMONT AVOCA 1 7:00 AM TO 8:00 AM NONE NONE 1 3:00 PM TO 4:00 PM	SKELLY RD	CR 55	MATTOON RD	FREMONT	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
HASKINVILLE RD LINE NY 21 FREMONT AVOCA 1 8:00 AM NONE NONE 1 4:00 PM	JOBS CORNERS RD	CR 55		FREMONT	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
CANFIELD RD CONDERMAN RD CR 55 FREMONT AVOCA NONE NONE NONE NONE NONE NONE			NY 21	FREMONT	AVOCA	1		NONE	NONE	1	3:00 PM TO 4:00 PM
	CANFIELD RD	CONDERMAN RD	CR 55	FREMONT	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE

APPENDIX D

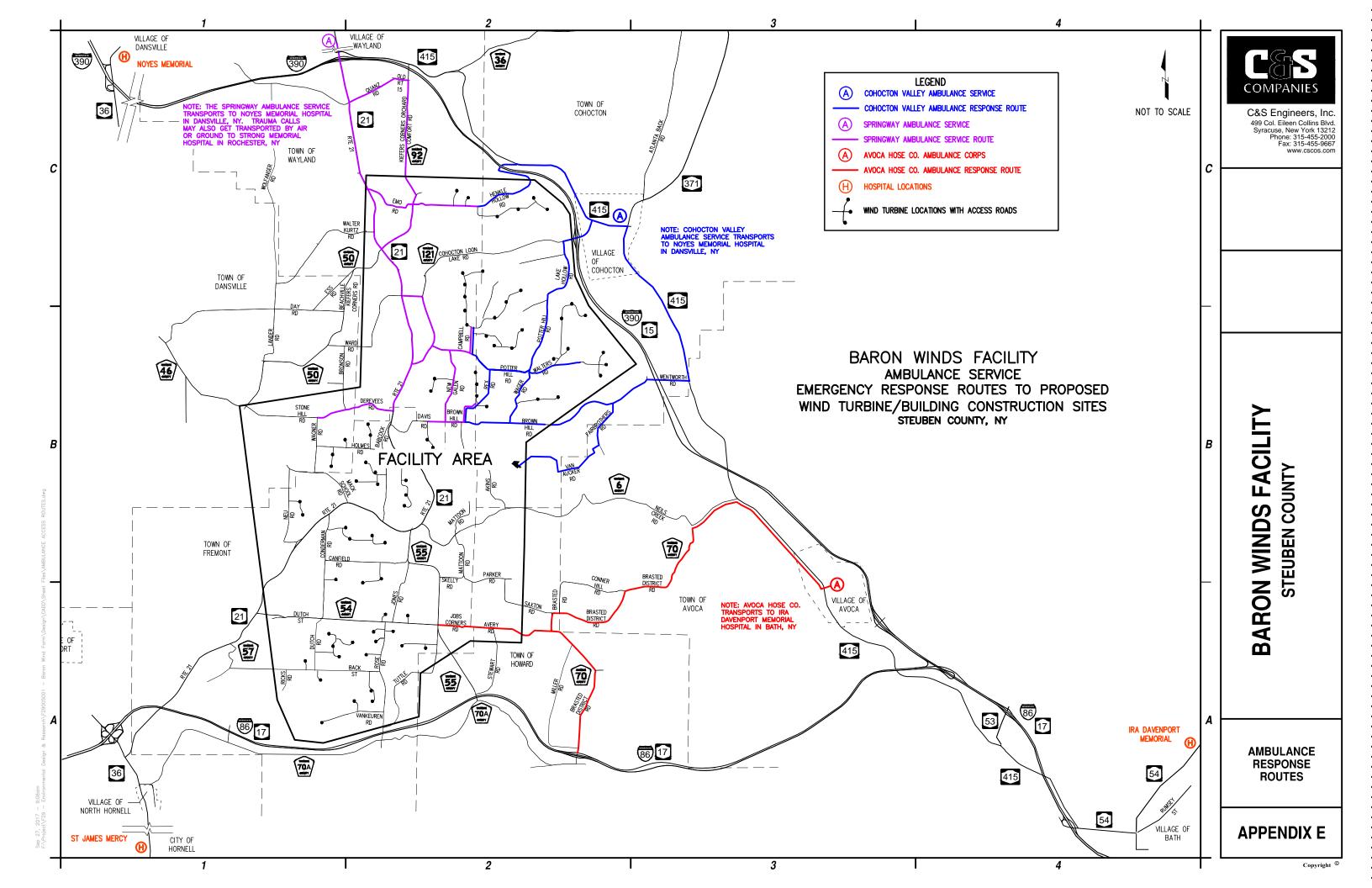


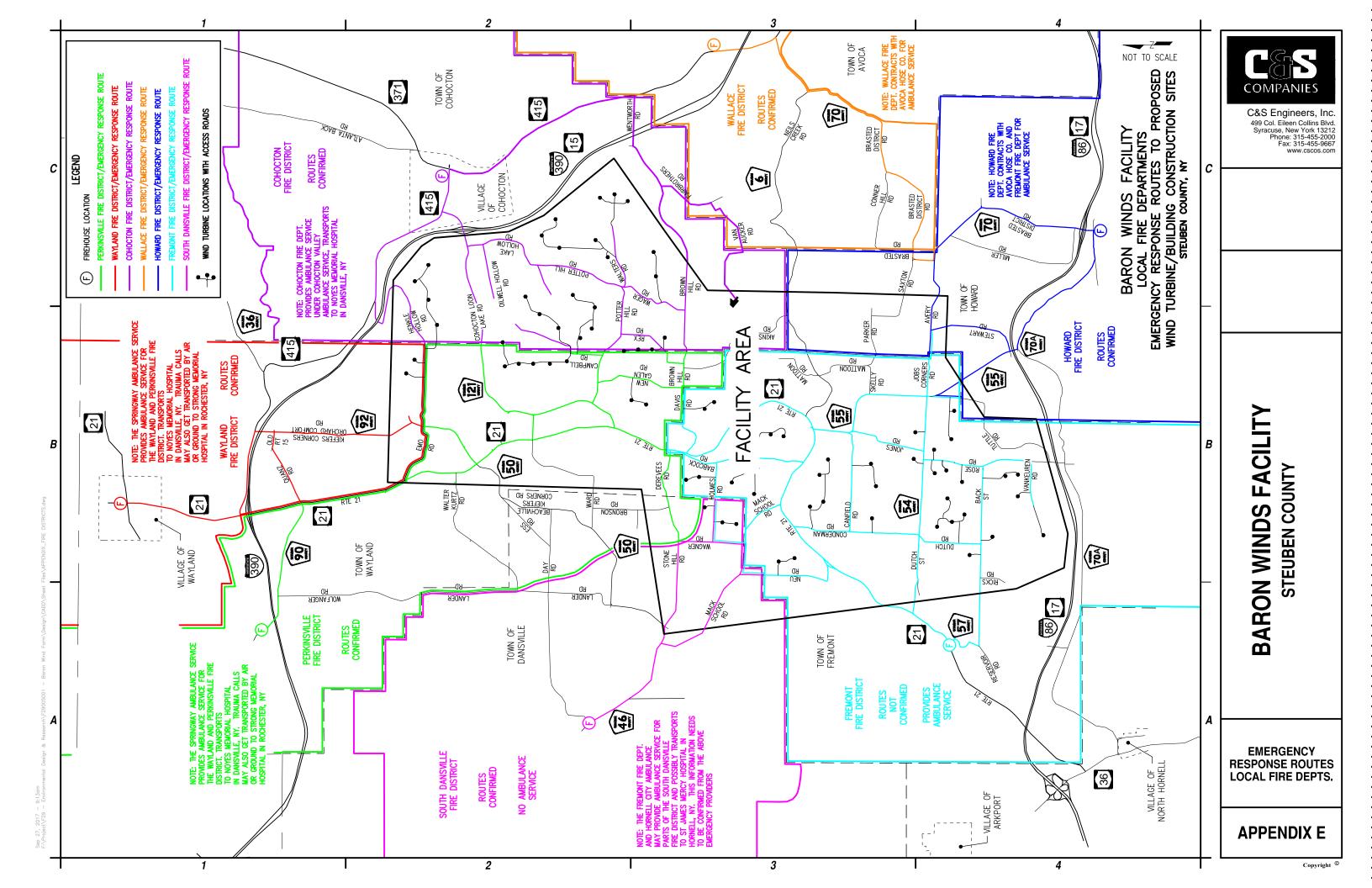
BARON WINDS FACILITY

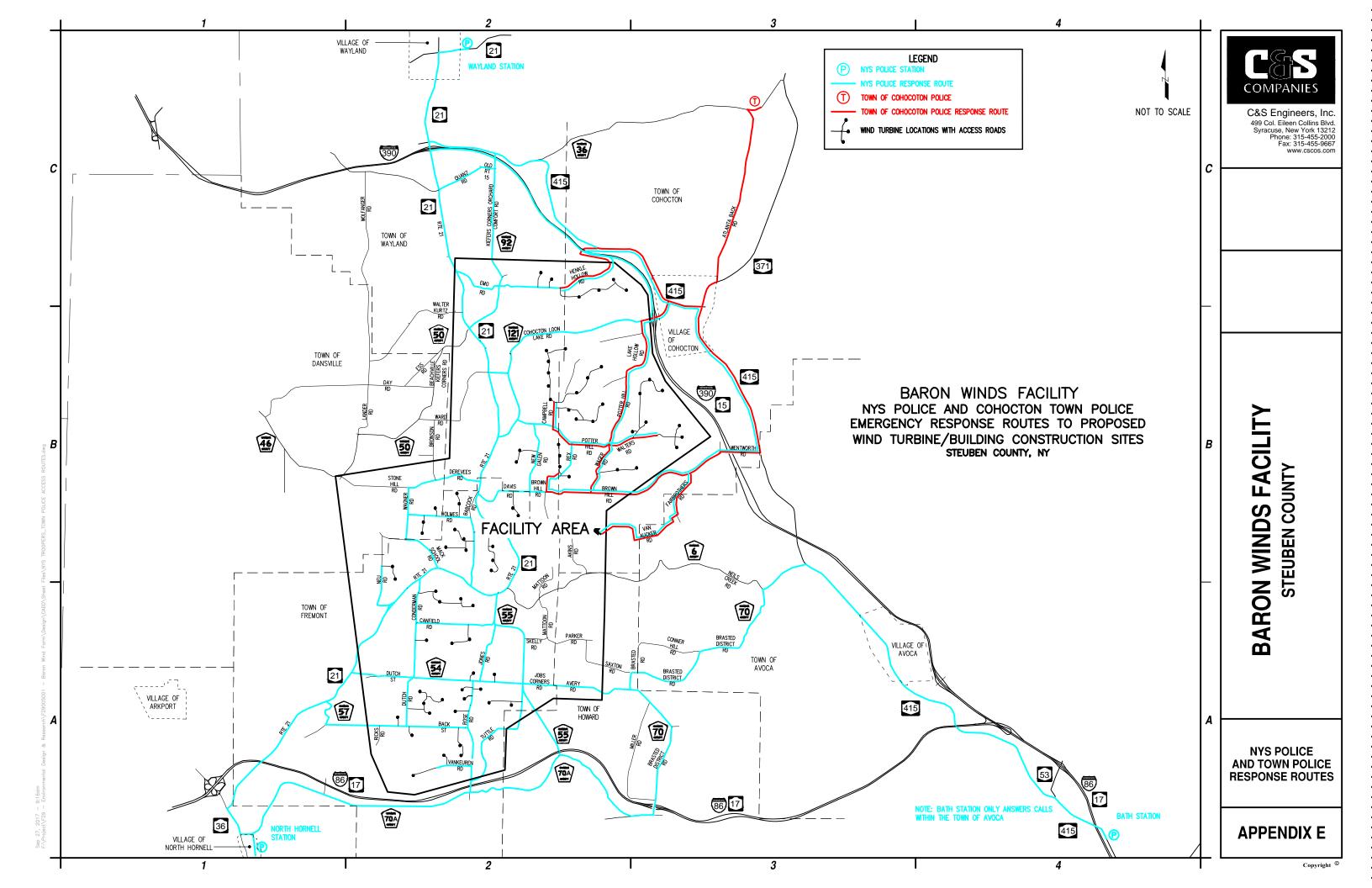
			DARON W	INDS FACILITY						
		EXIST	ING SCHOOL BUS ROU	TE INFORMATION (C	CONTINUE	D)				
					MORNING	BUS ROUTE	MID-DAY	BUS ROUTE	AFTER	NOON BUS
ROUTE/ROAD NAME	FROM	ТО	TOWN(S)	SCHOOL DISTRICT	NOS. OF BUSES	TIME SPAN	NOS. OF BUSES	TIME SPAN	NOS. OF BUSES	TIME SPAN
JONES RD	CR 55	CR 54	FREMONT	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
NY 21	0.3 MILES NORTH OF CR 6	0.5 MILES SOUTH OF CR 6	FREMONT	AVOCA	1	7:00 AM TO 8:00 AM	NONE	NONE	1	3:00 PM TO 4:00 PM
CR 54 DUTCH STREET	JONES RD	CR 55	FREMONT	AVOCA	NONE	NONE	NONE	NONE	NONE	NONE
CR 55 BACON SCHOOL- HASKINVILLE RD	STEWART RD	FREMONT TOWN LINE	HOWARD	HORNELL CITY	NONE	NONE	NONE	NONE	NONE	NONE
TUTTLE RD	CR 55	ROSE RD	FREMONT/HOWARD	HORNELL CITY	2	6:30 AM TO 8:00 AM	NONE	NONE	2	2:30 PM TC 4:00 PM
ROSE RD	CR 54	TUTTLE RD	FREMONT	HORNELL CITY	NONE	NONE	NONE	NONE	NONE	NONE
DUTCH RD	CR 54	BACK ST	FREMONT	HORNELL CITY	NONE	NONE	NONE	NONE	NONE	NONE
BACK ST	RICKS RD	ROSE RD	FREMONT	HORNELL CITY	NONE	NONE	NONE	NONE	NONE	NONE
VAN KEUREN RD	ROSE RD	DEAD END	FREMONT	HORNELL CITY	NONE	NONE	NONE	NONE	NONE	NONE
NY 21	0.5 MILES SOUTH OF CR 6	CR 54	FREMONT	ARKPORT	1	7:30 AM TO 8:00 AM	NONE	NONE	1	3:30 PM TC 4:00 PM
CR 54 DUTCH STREET	NY 21	JONES RD	FREMONT	ARKPORT	1	7:15 AM TO 7:45 AM	NONE	NONE	1	3:15 PM TC 3:45 PM
CONDERMAN RD	NY 21	CR 54	FREMONT	ARKPORT	1	7:30 AM TO 8:00 AM	NONE	NONE	1	3:30 PM TC 4:00 PM
CANFIELD RD	CONDERMAN RD	CR 55	FREMONT	ARKPORT	NONE	NONE	NONE	NONE	NONE	NONE
BABCOCK RD	0.6 MILES NORTH OF NY 21 (SOUTH)	NY 21 (SOUTH)	FREMONT	ARKPORT	NONE	NONE	NONE	NONE	NONE	NONE
MACK SCHOOL RD	NY 21	NEU RD	FREMONT/DANSVILLE	ARKPORT	1	7:15 AM TO 7:45 AM	NONE	NONE	1	3:15 PM TC 3:45 PM
JONES RD	CR 55	CR 54	FREMONT	ARKPORT	NONE	NONE	NONE	NONE	NONE	NONE
WAGNER RD	STONE HILL RD	MACK SCHOOL RD	DANSVILLE	ARKPORT	NONE	NONE	NONE	NONE	NONE	NONE
NEU RD	MACK SCHOOL RD	RIDER RD	FREMONT/DANSVILLE	ARKPORT	NONE	NONE	NONE	NONE	NONE	NONE
STONE HILL RD	CR 50	WAGNER RD	DANSVILLE	ARKPORT	NONE	NONE	NONE	NONE	NONE	NONE
CR 50 BEACHVILLE- KIEFERS CORNERS RD	STONE HILL RD	LANDER RD	DANSVILLE	ARKPORT	1	7:15 AM TO 7:45 AM	NONE	NONE	1	3:15 PM TC 3:45 PM

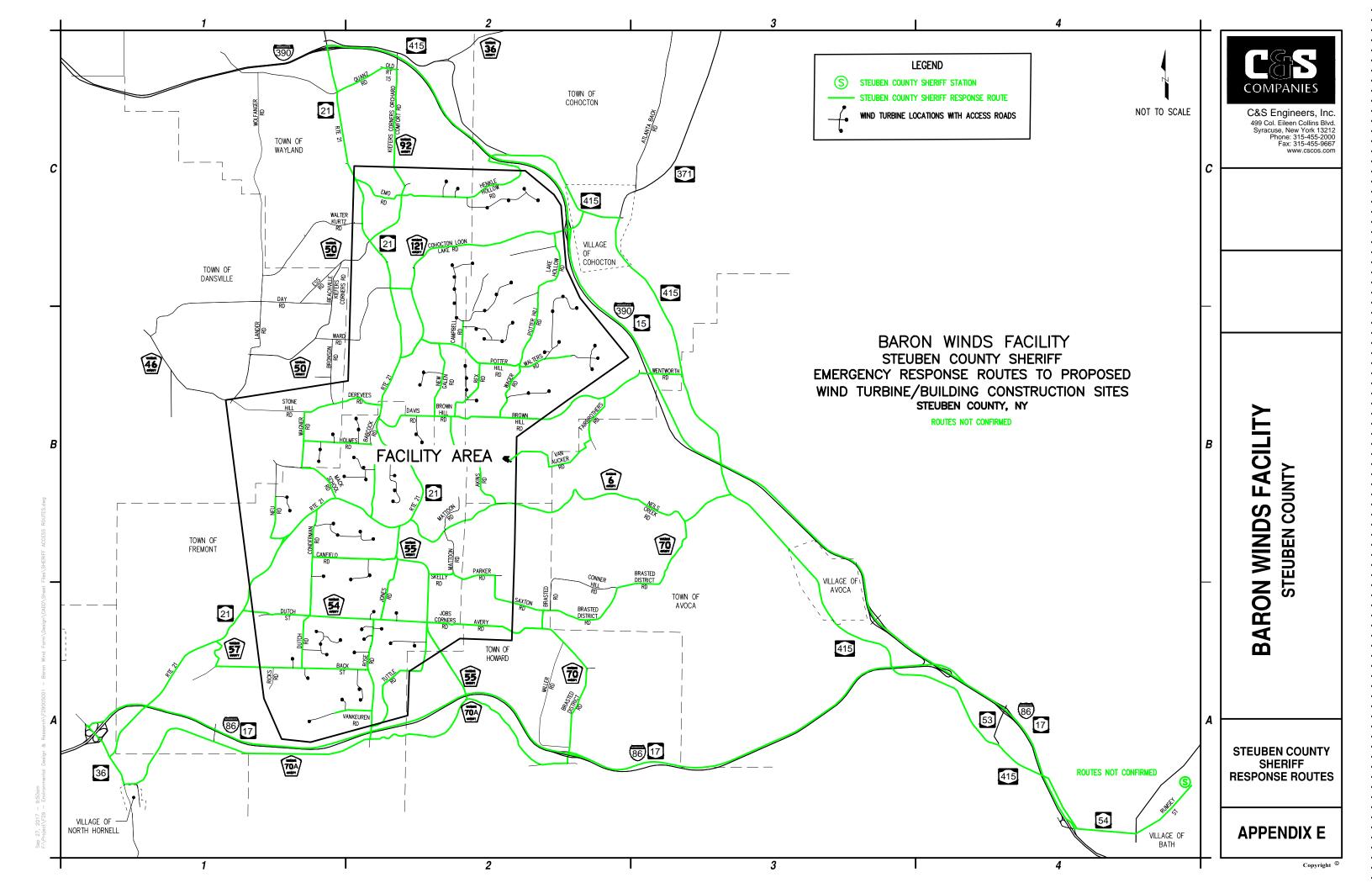
APPENDIX E

Maps of Emergency Responder Routes









APPENDIX F

Table of Roadway Field Evaluation (Condensed)



APPENDIX F



BARON WINDS FACILITY

ROADWAY FIELD EVALUATION TABLE (CONDENSED)

		ROA	DWAY	FIELD EVALUATION	I IABL	= ((CONDE	NZED)												
		ABBREVIATION INDEX	X																		Ē
PAVEMENT DEPTH:	VAR - VARIES UP TO 3" FOR			NK - UNKNOWN																	CURVE WARNING SPEED (MPH
ROAD TYPES: A- ASP		0.2 0.3 10 1.2, 3 3 1.0 1.7 1.3									_							,			0
	ONS: P-POOR F-FAIR G-	GOOD F - EXCELLENT			PAVEMENT DEPTH (IN)			SHO ULDER WIDTH (FT)	PAVEMENT MARKINGS		CONDITION					Ψl		WGT. (T)			ij.
	IGENT C-CURVED W-WIN				Ţ			Ŧ	I₹		=					TYPE		ĞΤ	_		SS
					<u>بة</u> ا	١.	E.	ᆸ	AR		Ĭ				ж	ايزا	_	>	Ą	s	Ĭ
	- ROLLING M- MOUNTAING				<u> </u>	ES	Ŧ	⋝	Σ	*	8	-		s	≧	ĕI	AD	ROAD	2	Š	Z.
	LV. TYPE: R POSTED LOA				=	LANES	LANE WIDTH (FT)	甾	E	ROAD TYPE	PAVEMENT	ALIGNMEN.	_	LOW WIRES	POSTED BRIDGE	BRIDGE	80 _/	8	SEASONAL ROAD	SHARP CURVES	٧
	: LD - LOCAL DELIVERY TRUC	CKS ONLY		T	Ξ	유	≥	1 =	ž	Ĺ	Ξ	Į	TERRAIN	×	В	POSTED	ED	POSTED	ᇹ	٥	é
ROUTE/ROAD	FROM	то	LENGTH	TOWN(S)		8	3	ŏ	3	A		9	8	×	S	121	POSTED	JST	AS	₹	€
NAME			(MI)	10111(0)		ž							_		_	ĭ		ы	_		
NY 21	I-390/NY 15	DEREVEES RD	6.5	WAYLAND	12"+/-	2	12	4	YES	Α	G	С	R	YES	NO		NO		NO	_	50
NY 21	DEREVEES RD	CONDERMAN RD	4.2	FREMONT	12"+/-	2	12	6	YES	Α	F	W	R	YES	NO		NO		NO	NO	NO
CR 50 BEACHVILLE-	NY 21	STONE HILL RD	4.3	MANUAND /DANISMULE	9"	2	10	4	YES	Α	G	w	R	YES	NO		NO		NO	YES	20/25
KIEFERS CORNERS	INT Z1	STONE HILL KD	4.5	WAYLAND/DANSVILLE	9	2	10	4	TES	А	G	VV	K	TES	NO		NU		NO	TES	30/40
CR 54 DUTCH	60410504444100	00.55		FRENZONIT	0"	•	10		V-50		(4	,								
STREET	CONDERMAN RD	CR 55	2	FREMONT	9"	2	10	4	YES	Α	G	Т	R	NO	NO		NO		NO	NO	NO
CR 55 BACON SCHOOL-	STEWART RD/I-86/NY 17	NY 21	3.5	FREMONT/HOWARD	6"+/-	2	11	2 TO 6	YES	Α	G	С	R	NO	NO		NO		NO	YES	30
HASKINVILLE RD	BRIDGE	111 22	5.5	1112110111/110111111	0 .,	-		2.00	. 23	'`	_										50
CR 70 BRASTED			 		 	+-	 	 								H				\vdash	
	I-86/NY 17 INTERCHANGE	AVOCA TOWN LINE	2.7	HOWARD	4"	2	11	4 TO 6	YES	Α	G	С	R	YES	NO		NO		NO	YES	30/40
DISTRICT RD					 	1		1								1				\vdash	25/20
CR 92 KIEFERS CORS-	NIV 24	OLD BOUTE 15		MANUAND.	0"	1	10	2	VEC				_	VEC	NO.		NO		NO	VEC	25/30/
ORCHARD	NY 21	OLD ROUTE 15	4	WAYLAND	9"	2	10	3	YES	Α	G	W	R	YES	NO		NO		NO	YES	, -,
COMFORT RD						_										1				₽	45
CR 121 COHOCTON-	NY 21	I-390/NY 15	3.5	WAYLAND/COHOCTON	6"+/-	2	11	4	YES	Α	G	w	R	YES	NO		NO		NO	YES	35/10
LOON LAKE RD				· ·	<u> </u>																, i
QUANZ RD	NY 21	OLD ROUTE 15	0.9	WAYLAND	UNK	2	9	5	NO	Α	G	Т	F	YES			NO		YES		NO
OLD ROUTE 15	QUANZ RD	CR 92	0.2	WAYLAND	UNK	2	10	5	NO	Α	F	Т	F	NO	NO		NO		NO	NO	NO
EMO RD	NY 21	COHOCTON TOWN LINE	2.2	WAYLAND	UNK	2	9 TO 10	5	NO	A/GR	G	W	М	YES	NO		NO		NO	YES	20/30
WALTER KURTZ RD	LANDER RD	WAYLAND TOWN LINE	0.4	DANSVILLE	UNK	1	12	2	NO	GR	G	С	R	NO	NO		NO		YES	NO	NO
WALTER KURTZ RD	DANSVILLE TOWN LINE	NY 21	1.9	WAYLAND	UNK	2	10	3 TO 5	NO	Α	G	W	R	NO	NO		NO		NO	YES	30
S CHURCH RD	CR 121	NY 21	1.4	WAYLAND	UNK	2	10	5	NO	Α	G	С	F	YES	NO		NO		NO	_	20
DYE RD	S CHURCH RD	CAMPBELL RD	0.7	WAYLAND	UNK	2	9 TO 10	5	NO	Α	F	C	R	YES	NO		NO		NO		NO
CAMPBELL RD	OIL WELL HOLLOW RD	DYE RD	0.7	WAYLAND/COHOCTON	UNK	2	8	5	NO	GR	G	T	M	NO	NO		NO		YES		
NEW GALEN RD	DYE RD	DAVIS RD	1.3	WAYLAND	UNK	2	10	6	NO	A	G	W	R	YES		H	NO		NO		
NEW GALLINID	BIEND	BAVISTO	1.5	WAYLAND/FREMONT/	ON	-	10	-	140		ď		- ' '	1123	140		110		140	1123	- 50
DEREVEES RD	BRONSON RD	NY 21	0.9		UNK	2	10	2	NO	GR/A	F	W	F	YES	NO		NO		NO	YES	30
DEV 00	DDOWN IIII DD	O F MULEC NODELL	0.5	DANSVILLE	5" AVG	2	0	-	NO	GR	F	С	М	NO	NO	H	NO		YES	YES	15
REX RD	BROWN HILL RD	0.5 MILES NORTH		WAYLAND/COHOCTON		-	8	5	NO		_	_				1	NO		_	_	15
LAKE HOLLOW RD	CR 121	POTTER HILL RD	1.2	COHOCTON	4"	2	9	2	NO	A (60	G	W	R	YES		H	NO		NO	_	
POTTER HILL RD	LAKE HOLLOW RD	CAMPBELL RD	2.3	COHOCTON	3"/6"	2	8 TO 9	5	NO	A/GR	F	W	М	YES	NO	—	NO		NO	_	NO
WAGER RD	POTTER HILL RD	BROWN HILL RD	1.1	COHOCTON	3"	2	9	5	NO	Α	F	W	М	YES		—	NO		NO		
WALTERS RD	WAGER RD	DEAD END	1	COHOCTON	6"	1	12	2	NO	GR	G	С	F	NO			NO		NO		
BROWN HILL RD	NEW GALEN RD	WAGER RD	1.1	WAYLAND/COHOCTON	4"	2	8 TO 9	4 TO 5	NO	Α	F	W	R	NO			NO		NO		NO
DAVIS RD	NY 21	NEW GALEN RD	1.3	FREMONT/WAYLAND	UNK	2	10	3 TO 4	NO	GR	G	С	М	YES	NO		NO		NO	_	NO
BRASTED RD	AVOCA TOWN LINE	CR 70	0.3	HOWARD	UNK	2	9	3	NO	GR	F	T	R	YES	NO		YES*	*	NO	NO	NO
SAXTON RD	PARKER RD	CR 70	1.3	HOWARD	UNK	2	10	2	NO	GR	F	С	R	NO	NO		YES*	*	NO	NO	NO
PARKER RD	MATTOON RD	SAXTON RD	0.8	FREMONT/HOWARD	UNK	2	9	2	NO	GR	F	С	R	YES	NO		YES*	*	YES	NO	NO
AVERY RD	FREMONT TOWN LINE	CR 70	1.4	HOWARD	UNK	1	14	2	NO	GR	F	С	R	NO	NO		YES*	*	YES	YES	NO
MILLER RD	CR 70 (NORTH)	CR 70 (SOUTH)	2.3	HOWARD	UNK	2	9	5	NO	GR	F	Т	М	NO	NO		YES*	*	NO	NO	NO
BABCOCK RD	NY 21 (NORTH)	1.1 MILES SOUTH	1.1	FREMONT	UNK	2	10	3	NO	GR	G	С	R	NO	NO		NO		YES	NO	NO
MATTOON RD	SKELLY RD	DEAD END	1.1	FREMONT	UNK	2	8	2	NO	GR	F	W	R	NO	NO	H	NO		NO	NO	NO
SKELLY RD	CR 55	MATTOON RD	0.4	FREMONT	UNK	2	8	3	NO	GR	F	С	R	NO	NO		NO		YES	_	NO
JOBS CORNERS RD	CR 55	HOWARD TOWN LINE	0.6	FREMONT	UNK	1	14	3	NO	GR	F	W	M	NO			NO		YES		NO
CONDERMAN RD	NY 21	CR 54	1.8	FREMONT	UNK	2	10	4	NO	A/GR	F	T	M	NO			NO		YES		NO
CANFIELD RD	CONDERMAN RD	CR 55	1.5	FREMONT	UNK	2	9	5	NO		F	С					NO			YES	
JONES RD	CR 54	CR 55	1.1	FREMONT	UNK	2		2		GR/A	F	T	F			H	NO		NO		
ROSE RD		TUTTLE RD		FREMONT	3" TO 6"	2		8	_	A/GR	F	W				H	NO			NO	
	CR 54		1.8	The state of the s		_			_	_	_				_	1				_	
BACK ST	ROSE RD	RICKS RD	1.6	FREMONT	UNK	2	9	5	NO	GR	F	T	R			\vdash	NO		YES		NO
DUTCH RD	CR 54	BACK ST	0.9	FREMONT	UNK	2	8	4	NO	GR	F	T	F	YES			NO	<u> </u>		NO	
TUTTLE RD	CR 55	ROSE RD	2.4	FREMONT/HOWARD	UNK	1		5	NO	GR	Р	W		NO			YES*	*		YES	
VAN KEUREN RD	ROSE RD	DEAD END	0.6	FREMONT	UNK	2	9	3	NO	GR	G	Т	R				NO			NO	NO
NEU RD	MACK SCHOOL RD	0.7 MILES SOUTH	0.7	FREMONT/DANSVILLE	UNK	1	10	4	NO	GR	Р	Т	R	NO	NO		NO		YES	NO	NO
MACK SCHOOL RD	NY 21	NEU RD	1.3	FREMONT/DANSVILLE	UNK	2	10	2 TO 3	NO	Α	G	С	R	YES	NO		NO		NO	YES	30
HOLMES RD	WAGNER RD	BABCOCK RD	1.2	DANSVILLE/FREMONT	UNK	1	11 TO 14	1 TO 4	NO	GR	Р	Т	R	NO	NO		NO		YES	NO	NO
WAGNER RD	STONE HILL RD	MACK SCHOOL RD	1	DANSVILLE	UNK	1	11	2	NO	GR	Р	Т	F	NO	NO		NO		YES	NO	NO
STONE HILL RD	CR 50	BRONSON RD	1.8	DANSVILLE	UNK	2	10	2	NO	GR	F	С	R	NO	_		NO		NO		
	NATED WINTER DO	00.50	4.5	DANGUUS		2		 -		CD /4				7/50		1				140	

NOTES:

LANDER RD

WALTER KURTZ RD

- * AVERY RD, BRASTED RD, MILLER RD, PARKER RD, SAXTON RD AND TUTTLE RD PORTION IN THE TOWN OF HOWARD MAY BE POSTED FOR WEIGHT RESTRICTIONS AND CLOSED TO CONSTRUCTION TRAFFIC AT CERTAIN TIMES OF THE YEAR AT THE DISCRETION OF THE TOWN OF HOWARD HIGHWAY SUPERVISOR PRIOR TO HAUL ROAD USE.
- ** LAKE HOLLOW RD, CR 121 TO POTTER HILL RD, IS GETTING A CHIP-SEALED ASPHALT TREATMENT FROM THE TOWN OF COHOCTON DURING THE SUMMER OF 2017
- ** POTTER HILL RD, LAKE HOLLOW RD TO WAGER RD, IS GETTING A DOUBLE OIL AND STONE ASPHALT TREATMENT FROM THE TOWN OF COHOCTON IN THE SUMMER OF 2017

DANSVILLE

UNK 2

10

5 NO GR/A F C M YES NO

** POTTER HILL RD, LAKE HOLLOW RD TO WAGER RD, THE TOWN OF COHOCTON IS REPLACING A CULVERT PIPE IN THE SUMMER OF 2017

1.5

CR 50

- ** WAGER RD, BROWN HILL RD TO POTTER HILL RD, IS GETTING A DOUBLE OIL AND STONE ASPHALT TREATMENT FROM THE TOWN OF COHOCTON IN THE SUMMER OF 2017
- ** BROWN HILL RD, DAVIS RD TO SLAYTON RD, IS GETTING A CHIP-SEALED ASPHALT TREATMENT FROM THE TOWN OF COHOCTON DURING THE SUMMER OF 2017
- ** ALL GRAVEL ROADS IN THE TOWN OF FREMONT ARE SUBJECT TO ADDING AND REGRADING GRAVEL AT VARIOUS LOCATIONS ANNUALLY.

APPENDIX G

Table of Roadway Restrictions

Table of Intersection Restrictions



APPENDIX G

C&S Engineers, Inc. 499 Col. Eileen Collins Blvd. Syracuses, New York 13212 Phone: 315-455-9667 www.cscos.com

BARON WINDS FACILITY

		RC	OADWAY RESTRI	ICTION TABLE		
ROUTE/ROAD NAME	FROM	то	TOWN(S)	RESTRICTION LOCATION	RESTRICTION	HEIGHT/WGT. LIMIT
NY 21	NY 415	QUANZ RD	WAYLAND	I-390 NB OVER NY 21	UNDER BRIDGE CLEARANCE	14' - 1"
INI ZI	N1 413	QUAINZ ND	WATLAND	I-390 SB OVER NY 21	UNDER BRIDGE CLEARANCE	13' - 9"
CR 121	NY 415	LAKE HOLLOW RD	COHOCTON	I-390 NB OVER CR 121	UNDER BRIDGE CLEARANCE	14' - 3"
CR 121	N1 413	LAKE HOLLOW KD	COHOCTON	I-390 SB OVER CR 121	UNDER BRIDGE CLEARANCE	14' - 0"
I-86/NY 17 NB&SB	CR 70A	MILLER RD	HOWARD	NY 962B (CR 70) OVER I-86/NY 17 NB&SB	UNDER BRIDGE CLEARANCE	16' - 6"
AVERY RD	FREMONT TOWN LINE	CR 70	HOWARD	LENGTH OF SEGMENT	POSSIBLE POSTED LOAD ON ROADWAY	CONTACT TOWN HWY SUPERVISOR
BRASTED RD	AVOCA TOWN LINE	CR 70	HOWARD	LENGTH OF SEGMENT	POSSIBLE POSTED LOAD ON ROADWAY	CONTACT TOWN HWY SUPERVISOR
MILLER RD	CR 70 (NORTH)	CR 70 (SOUTH)	HOWARD	LENGTH OF SEGMENT	POSSIBLE POSTED LOAD ON ROADWAY	CONTACT TOWN HWY SUPERVISOR
PARKER RD	MATTOON RD	SAXTON RD	HOWARD	LENGTH OF SEGMENT	POSSIBLE POSTED LOAD ON ROADWAY	CONTACT TOWN HWY SUPERVISOR
SAXTON RD	PARKER RD	CR 70	HOWARD	LENGTH OF SEGMENT	POSSIBLE POSTED LOAD ON ROADWAY	CONTACT TOWN HWY SUPERVISOR
TUTTLE RD	FREMONT TOWN LINE (WEST)	FREMONT TOWN LINE (NORTH)	HOWARD	LENGTH OF SEGMENT	POSSIBLE POSTED LOAD ON ROADWAY	CONTACT TOWN HWY SUPERVISOR

NOTE: VARIOUS ROADS HAVE LOCATIONS WITH LOW WIRES, SEE APPENDIX F, ROADWAY FIELD EVALUATION TABLE (CONDENSED) FOR ROADWAYS WITH LOW WIRES PRESENT.

APPENDIX G



BARON WINDS FACILITY

INTERSECTION RESTRICTION TABLE (POTENTIAL ACCESS ROUTE LOCATIONS ONLY)

				<u> </u>									
LOCATION NOS	POTENTIAL ACCESS ROUTE ROADS WITH INTERSECTION RESTRICTIONS	FROM	то	TOWN(S)	LENGTH (MI)	ACCESS ROUTE	TYPE	INTERSECTION RESTRICTION LOCATION	RELOCATE SIGNS	RELOCATE UTILITIES AND/OR UTIL. POLES	REMOVE TREES	DITCH WORK	DRAINAGE PIPE WORK
1	I-390 SB OFF RAMP	I-390	NY 21	WAYLAND	0.2	1, 2	Α	I-390 SB OFF RAMP/NY 21	YES	YES	YES	YES	NO
								QUANZ RD/NY 21	YES	NO	NO	YES	YES
2,3	QUANZ RD	NY 21	OLD ROUTE 15	WAYLAND	0.9	1, 2	Α	QUANZ RD/OLD ROUTE 15	YES	NO	NO	NO	NO
4	OLD ROUTE 15	QUANZ RD	CR 92	WAYLAND	0.2	1, 2	Α	OLD ROUTE 15/CR 92	YES	YES	YES	YES	YES
5	EMO RD	CR 92	TURBINE LOC. T2/T7/T18/T13	WAYLAND	1.2	1	A/G	EMO RD/CR 92	YES	YES	NO	YES	NO
6	CR 92	EMO RD	NY 21	WAYLAND	1	2	Α	*CR 92/NY 21	YES	YES	NO	YES	YES
7	NY 21	CR 50/CR 92	DEREVEES RD	WAYLAND/FREMONT	3	2	Α	NY 21/DEREVEES RD	NO	NO	NO	NO	NO
8	WAGNER RD	STONE HILL RD	MACK SCHOOL RD	DANSVILLE	1	2	G	WAGNER RD/STONE HILL RD	YES	YES	YES	YES	NO
9, 10	HOLMES RD	WAGNER RD	BABCOCK RD	DANSVILLE/FREMONT	1.2	2	G	HOLMES RD/WAGNER RD	NO	NO	YES	NO	NO
9, 10	HOLIVILS ND	WAGNER RD	BABCOCK ND	DANSVILLE/FREIVIONT	1.2	2	0	HOLMES RD/BABCOCK RD	YES	NO	YES	YES	YES
11	MACK SCHOOL RD	NEU RD	NY 21	DANSVILLE/FREMONT	1.3	2	А	MACK SCHOOL RD/WAGNER RD	YES	YES	YES	YES	YES
12	NEU RD	MACK SCHOOL RD	TURBINE LOC. T35/T40	DANSVILLE/FREMONT	0.6	2	G	NEU RD/MACK SCHOOL RD	YES	NO	YES	YES	YES
13, 14	NY 21	MACK SCHOOL RD	CONDERMAN RD	FREMONT	0.4	2	Α	NY 21/MACK SCHOOL RD	YES	NO	NO	YES	NO
10, 1.		THE CONTROL TO	CONDENIVIVITA	THEINIOITI	0		٠,	**NY 21/CONDERMAN RD	YES	YES	YES	YES	NO
15	CANFIELD RD	CONDERMAN RD	TURBINE LOC. T65/T69	FREMONT	1	2	G	CANFIELD RD/CONDERMAN RD	YES	NO	YES	YES	NO
16	I-390 SB OFF RAMP	I-390	CR 121	COHOCTON	0.2	3	Α	I-390 SB OFF RAMP/CR 121	YES	NO	YES	YES	NO
17	LAKE HOLLOW RD	CR 121	POTTER HILL RD	COHOCTON	1.3	3	Α	LAKE HOLLOW RD/ CR 121	YES	NO	NO	NO	NO
18	WALTERS RD	WAGER RD	TURBINE LOC. T8/T19/T43	COHOCTON	1	3	G	WALTERS RD/WAGER RD	YES	YES	NO	YES	NO
19	WAGER RD	POTTER HILL RD	BROWN HILL RD	COHOCTON	1.1	3	Α	***WAGER RD/GRUBER RD	NO	YES	YES	YES	YES
20	BROWN HILL RD	WAGER RD	NEW GALEN RD	COHOCTON/WAYLAND	1.2	3	Α	BROWN HILL RD/WAGER RD	YES	NO	YES	YES	YES
21	REX RD	BROWN HILL RD	TURBINE LOC. T44/T59/T74	WAYLAND/COHOCTON	0.5	3	G	REX RD/BROWN HILL RD	YES	NO	YES	NO	YES
22	NEW GALEN RD	DAVIS RD	DYE RD	WAYLAND	1.3	3	Α	NEW GALEN RD/DAVIS RD	YES	NO	NO	YES	NO
23	DYE RD	NEW GALEN RD	CAMPBELL RD	WAYLAND	0.4	3	Α	DYE RD/CAMPBELL RD	YES	YES	NO	YES	NO
24	CAMPBELL RD	DYE RD	TURBINE LOC. T37/T6/T17	WAYLAND/COHOCTON	0.5	3	G	CAMPBELL RD/DYE RD	YES	YES	NO	YES	YES
25	I-86/NY 17 WB OFF RAMP	I-86/NY 17	CR 70	HOWARD	0.3	4	Α	I-86/NY 17 WB OFF RAMP/CR 70	YES	NO	YES	YES	NO
26	JOBS CORNERS RD	CR 55	HOWARD TOWN LINE	FREMONT	0.6	4	G	JOBS CORNERS RD/CR 55	YES	YES	YES	YES	YES
27	ROSE RD	CR 54	TUTTLE RD	FREMONT	1.8	4	A/G	ROSE RD/CR 54	YES	NO	NO	YES	YES
28	BACK ST	ROSE RD	TURBINE LOC. T32	FREMONT	1.2	4	G	BACK ST/ROSE RD	NO	YES	NO	YES	YES
29	VAN KEUREN RD	ROSE RD	TURBINE LOC. T38	FREMONT	0.6	4	G	VAN KEUREN RD/ROSE RD	NO	NO	NO	YES	YES
30	DUTCH RD	BACK ST	TURBINE LOC. T70/T71/T63/T90	FREMONT	0.3	4	G	DUTCH RD/BACK ST	NO	NO	YES	YES	YES

ABBREVIATIONS: A - ASPHALT G - GRAVEL LOC. - LOCATION UTIL. - UTILITY MI - MILES

NOTES:

^{*} LOC. 6 - EXTENSIVE UTILITY POLE RELOCATIONS AND CULVERT EXTENSION WOULD BE REQUIRED.

^{**} LOC. 14 - CABLE GUIDE RAIL IS PRESENT IN THE SOUTHEAST QUADRANT OF THE INTERSECTION.

^{***} LOC. 19 - CORRUGATED BEAM GUIDE RAIL IS PRESENT IN THE NORTHEAST AND SOUTHWEST QUADRANTS OF THE INTERSECTION TO PROTECT STEEP SLOPES DUE TO A 10' ROUND IRON PIPE CROSSING

Table of Potential Roadway Improvements

Table of Potential Intersection Improvements

Map of Potential Roadway Improvement and Intersection Improvement Locations

Maps of Intersection Turning Movements



BARON WINDS FACILITY

POTENTIAL ROADWAY IMPROVEMENT TABLE

NOTE 2 BELOW)
SHOULDERS, WIDEN ROAD FROM 11' TO
SHOULDERS, WIDEN ROAD FROM 11' AND

NOTE 1: THE POTENTIAL ROADWAY IMPROVEMENTS IN THE TABLE ARE ONLY SUGGESTED RECOMMENDATIONS, THE FINAL ROADWAY MITIGATION WILL BE DECIDED BY TOWN AND COUNTY HIGHWAY OFFICIALS AND INCLUDED IN A ROAD USE AGREEMENT WITH THE WIND PROJECT DEVELOPER, BARON WINDS, LLC

NOTE 2: REFER TO MAP OF POTENTIAL ROADWAY IMPROVEMENTS AND INTERSECTION IMPROVEMENTS FOR POTENTIAL ROADWAY IMPROVEMENT LOCATIONS



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APPENDIX H **BARON WINDS FACILITY**

POTENTIAL ROADWAY IMPROVEMENT TABLE (CONTINUED)

			POTENTIAL	ROADW	AY IMPRO)VEN	MENT TABLE (CONTIL	NUED)	
POTENTIAL ACCESS ROUTE ROADS NEEDING IMPROVEMEMT	FROM	то	TOWN(S)	LENGTH (MI)	ACCESS ROUTE	TYPE	TEMPORARY ROADWAY IMPROVEMENT SEE NOTE 1 BELOW	PERMANENT ROADWAY IMPROVEMENT SEE NOTE 1 BELOW	COMMENTS (SEE NOTE 2 BELOW)
NEU RD	MACK SCHOOL RD	TURBINE LOC. T35/T40	DANSVILLE/FREMONT	0.6	2	G	WIDEN W/12" GRAVEL, OR PROVIDE TRAFFIC CONTROL, ADD 12" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING POOR, WIDEN ROAD FROM 10' TO 20' WIDTH IF POSSIBLE
CONDERMAN RD	NY 21	TURBINE LOC. T45	FREMONT	0.7	2	A G	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS ADD 8" GRAVEL	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS GRADE & ADD 3"	CONDITION RATING FAIR
CANFIELD RD	CONDERMAN RD	TURBINE LOC. T65/T69	FREMONT	1	2	G	ADD 8" GRAVEL	GRAVEL GRADE & ADD 3"	CONDITION RATING FAIR
CR 121	I-390 SB OFF RAMP	LAKE HOLLOW RD	COHOCTON	0.2	3	A	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	GRAVEL T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD
LAKE HOLLOW RD	CR 121	POTTER HILL RD	соностом	1.3	3	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD, TOWN OF COHOCTON IS APPLYING A CHIP-SEALED ASPHALT TREATMENT DURING THE SUMMER OF 2017
POTTER HILL RD	LAKE HOLLOW RD	WAGER RD	соностом	1.3	3	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING FAIR, TOWN OF COHOCTON IS APPLYING A DOUBLE OIL AND STONI ASPHALT TREATMENT AND A NEW CULVERT PIPE DURING THE SUMMER OF 2017
WALTERS RD	WAGER RD	TURBINE LOC. T8/T19/T43	соностом	1	3	G	WIDEN W/12" GRAVEL, OR PROVIDE TRAFFIC CONTROL, REPAIR GRAVEL, IF NEEDED	GRADE & ADD 3" GRAVEL	CONDITION RATING GOOD, WIDEN ROAD FROM 12' TO 20' WIDTH IF POSSIBLE
WAGER RD	POTTER HILL RD	BROWN HILL RD	соностом	1.1	3	Α	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING FAIR, 10' IRON PIPE JUST NORTH OF GRUBER RD MAY NEED TO BE LENGTHENED AND GUIDE RAIL REPLACED DUE TO TURNING RADIUS LIMITS FOR DELIVERY VEHICLES. TOWN OF COHOCTON IS APPLYING A DOUBLE OIL AND STONE ASPHALT TREATMENT DURING THE SUMMER OF 2017
BROWN HILL RD	WAGER RD	NEW GALEN RD	COHOCTON/WAYLAND	1.2	3	Α	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING FAIR, TOWN OF COHOCTON IS APPLYING A CHIP-SEALED ASPHALT TREATMENT DURING THE SUMMER OF 2017
DAVIS RD	NEW GALEN RD	TURBINE LOC. T55/T53	FREMONT	0.3	3	G	REPAIR GRAVEL, IF NEEDED, DURING CONSTRUCTION	GRADE & ADD 3" GRAVEL	CONDITION RATING GOOD
NEW GALEN RD	DAVIS RD	DYE RD	WAYLAND	1.3	3	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD
ABBREVIATIONS: A - ASPHA	ALT G - GRAVEL LOC LOC	ATION T&L - ASPHALT TRUING & LE	VELING COURSE UTIL UTILI	TY		NOT	TE 1: THE POTENTIAL ROA	ADWAY IMPROVEMENTS	IN THE TABLE ARE ONLY SUGGESTED RECOMMENDATIONS, THE FINAL ROADWAY

MITIGATION WILL BE DECIDED BY TOWN AND COUNTY HIGHWAY OFFICIALS AND INCLUDED IN A ROAD USE AGREEMENT WITH THE WIND PROJECT DEVELOPER, BARON WINDS, LLC NOTE 2: REFER TO MAP OF POTENTIAL ROADWAY IMPROVEMENTS AND INTERSECTION IMPROVEMENTS FOR POTENTIAL ROADWAY IMPROVEMENT LOCATIONS



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BARON WINDS FACILITY

POTENTIAL ROADWAY IMPROVEMENT TABLE (CONTINUED)	POTENTIAL	ROADWAY	IMPROVEMENT	TABLE	(CONTINUED)
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TOTENTIAL NOADWAT INFINOVENIEW TABLE (CONTINUED)											
POTENTIAL ACCESS ROUTE ROADS NEEDING IMPROVEMEMT	FROM	то	TOWN(S)	LENGTH (MI)	ACCESS ROUTE	TYPE	TEMPORARY ROADWAY IMPROVEMENT SEE NOTE 1 BELOW	PERMANENT ROADWAY IMPROVEMENT SEE NOTE 1 BELOW	COMMENTS (SEE NOTE 2 BELOW)		
DYE RD	NEW GALEN RD	CAMPBELL RD	WAYLAND	0.4	3	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING FAIR		
CAMPBELL RD	DYE RD	TURBINE LOC. T37/T6/T17	WAYLAND/COHOCTON	0.5	3	G	WIDEN W/12" GRAVEL, AT NARROW AREA OR PROVIDE TRAFFIC CONTROL, REPAIR GRAVEL, IF NEEDED	GRADE & ADD 3" GRAVEL	CONDITION RATING GOOD, AT 0.3 MILES NORTH OF DYE RD, THE ROADWAY NARROWS DOWN TO A 12 FEET WIDE SINGLE LANE AND SHOULD BE WIDENED TO 20' WIDTH IF POSSIBLE		
CR 70	I-86/NY 17 WB OFF RAMP	AVERY RD	HOWARD	2.6	4	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD		
AVERY RD	CR 70	FREMONT TOWN LINE	HOWARD	1.4	4	G	WIDEN W/12" GRAVEL, OR PROVIDE TRAFFIC CONTROL, ADD 8" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING FAIR, WIDEN ROAD FROM 14' TO 20' WIDTH IF POSSIBLE, ANY CULVERTS WILL NEED TO BE LENGTHENED. ROAD MAY BE POSTED FOR WEIGHT LIMIT AS PER HIGHWAY TOWN SUPERVISOR		
JOBS CORNERS RD	HOWARD TOWN LINE	CR 55	FREMONT	0.6	4	G	WIDEN W/12" GRAVEL, OR PROVIDE TRAFFIC CONTROL, ADD 8" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING FAIR, WIDEN ROAD FROM 14' TO 20' WIDTH IF POSSIBLE, 36" AND 30" PIPES LOCATED EAST OF CR 55 MAY NEED TO BE LENGTHENED AND GUIDE RAIL REPLACED DUE TO NARROW ROAD WIDTHS FOR DELIVERY VEHICLES		
CR 55	TUTTLE RD	CR 54	FREMONT	0.1	4	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD		
TUTTLE RD	CR 55	TURBINE LOC. T67/T92	FREMONT	0.3	4	G	WIDEN W/12" GRAVEL, OR PROVIDE TRAFFIC CONTROL, ADD 12" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING POOR, WIDEN ROAD FROM 12' TO 20' WIDTH IF POSSIBLE.		
CR 54	CR 55	TURBINE LOC. T77	FREMONT	1	4	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD		
ROSE RD	CR 54	VAN KEUREN RD	FREMONT	1.3	4	А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING FAIR		
				0.2		G	ADD 8" GRAVEL	GRADE & ADD 3" GRAVEL			
BACK ST	ROSE RD	TURBINE LOC. T32	FREMONT	1.2	4	G	ADD 8" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING FAIR		

ABBREVIATIONS: A - ASPHALT G - GRAVEL LOC. - LOCATION T&L - ASPHALT TRUING & LEVELING COURSE UTIL. - UTILITY

NOTE 1: THE POTENTIAL ROADWAY IMPROVEMENTS IN THE TABLE ARE ONLY SUGGESTED RECOMMENDATIONS, THE FINAL ROADWAY MITIGATION WILL BE DECIDED BY TOWN AND COUNTY HIGHWAY OFFICIALS AND INCLUDED IN A ROAD USE AGREEMENT WITH THE WIND PROJECT DEVELOPER, BARON WINDS, LLC

NOTE 2: REFER TO MAP OF POTENTIAL ROADWAY IMPROVEMENTS AND INTERSECTION IMPROVEMENTS FOR POTENTIAL ROADWAY IMPROVEMENT LOCATIONS



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POTENTIAL ROADWAY IMPROVEMENT TABLE (CONTINUED)											
POTENTIAL ACCESS ROUTE ROADS NEEDING IMPROVEMEMT	NG FROM TO TOWN(S) $\overline{\mathcal{G}}$ ACCESS POLITE				TYPE	TEMPORARY ROADWAY IMPROVEMENT SEE NOTE 1 BELOW	PERMANENT ROADWAY IMPROVEMENT SEE NOTE 1 BELOW	COMMENTS (SEE NOTE 2 BELOW)			
DUTCH RD	BACK ST	TURBINE LOC. T70/T71/T63/T90	FREMONT	0.3	4	G	ADD 8" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING FAIR		
VAN KEUREN RD	ROSE RD	TURBINE LOC. T38	RBINE LOC. T38 FREMONT 0.6 4				REPAIR GRAVEL, IF NEEDED, DURING CONSTRUCTION	GRADE & ADD 3" GRAVEL	ONDITION RATING GOOD		
ROLITE ROADS NEEDING	ALTERNATE ACCESS ROUTE ROADS NEEDING ROADWAY/INTERSECTION IMPROVEMENTS ROADWAY/INTERSECTION IMPROVEMENTS										
CR 50	NY 21 STONE HILL RD WAYLAND/DANSVILLE 4.3 2		А	MONITOR DURING CONSTRUCTION AND MAKE ANY NECESSARY ASPHALT REPAIRS	T&L AND SINGLE COURSE ASPHALT OVERLAY FOR REPAIRED/DAMAGED AREAS	CONDITION RATING GOOD					
STONE HILL RD	CR 50	WAGNER RD	DANSVILLE	1.3	2	G	ADD 8" GRAVEL	GRADE & ADD 3" GRAVEL	CONDITION RATING FAIR		
ABBREVIATIONS: A - ASPHALT G - GRAVEL LOC LOCATION T&L - ASPHALT TRUING & LEVELING COURSE UTIL UTILITY							NOTE 1: THE POTENTIAL ROADWAY IMPROVEMENTS IN THE TABLE ARE ONLY SUGGESTED RECOMMENDATIONS, THE FINAL ROADWAY MITIGATION WILL BE DECIDED BY TOWN AND COUNTY HIGHWAY OFFICIALS AND INCLUDED IN A ROAD USE AGREEMENT WITH THE WIND PROJECT DEVELOPER, BARON WINDS, LLC NOTE 2: REFER TO MAP OF POTENTIAL ROADWAY IMPROVEMENTS AND INTERSECTION IMPROVEMENTS FOR POTENTIAL ROADWAY IMPROVEMENT LOCATIONS				



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BARON WINDS FACILITY

POTENTIAL INTERSECTION IMPROVEMENT TABLE

POTENTIAL INTERSECTION INFROVENIENT TABLE										
POTENTIAL ACCESS ROUTE ROADS WITH INTERSECTIONS NEEDING IMPROVEMENT	FROM	то	TOWN(S)	LENGTH (MI)	ACCESS ROUTE	TYPE	POTENTIAL INTERSECTION IMPROVEMENT LOCATION	TEMPORARY INTERSECTION IMPROVEMENT SEE NOTE 1 BELOW	PERMANENT INTERSECTION IMPROVEMENT SEE NOTE 1 BELOW	INTERSECTION LOCATION NUMBER SEE NOTE 2 BELOW
I-390 SB OFF RAMP	I-390	NY 21	WAYLAND	0.2	1, 2	А	I-390 SB OFF RAMP/NY 21	WIDEN SW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	1
QUANZ RD	NY 21	OLD ROUTE 15	WAYLAND	0.9	1, 2	A	QUANZ RD/NY 21	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	2
QOTATE ND							QUANZ RD/OLD ROUTE 15	WIDEN SE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	3
OLD ROUTE 15	QUANZ RD	CR 92	WAYLAND	0.2	1, 2	Α	OLD ROUTE 15/CR 92	WIDEN SW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	4
EMO RD	CR 92	TURBINE LOC. T2/T7/T18/T13	WAYLAND	1.2	1	A, G	EMO RD/CR 92	NE CORNER ACCESS ROAD W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	5
CR 92	EMO RD	NY 21	WAYLAND	1	2	А	*CR 92/NY 21	NE CORNER ACCESS ROAD W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	6
NY 21	CR 50/CR 92	DEREVEES RD	FREMONT	3	2	Α	NY 21/DEREVEES RD	WIDEN NW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	7
WAGNER RD	STONE HILL RD	MACK SCHOOL RD	DANSVILLE	1	2	G	WAGNER RD/STONE HILL RD	WIDEN SE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	8
HOLMES RD	WAGNER RD	BABCOCK RD	DANSVILLE/FREMONT	1.2	2	G	HOLMES RD/WAGNER RD	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	9
HOLIVIES NO			DANSVILLEJTREMONT	1.2			HOLMES RD/BABCOCK RD	WIDEN SW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	10
MACK SCHOOL RD	NEU RD	NY 21	DANSVILLE/FREMONT	1.3	2	А	MACK SCHOOL RD/ WAGNER RD	WIDEN NE/NW CORNERS W/12" GRAVEL	REMOVE NE GRAVEL, ADD 12" TOPSOIL , ADD 3" TOPSOIL TO NW & SEED BOTH	11
NEU RD	MACK SCHOOL RD	TURBINE LOC. T35/T40	DANSVILLE/FREMONT	0.6	2	G	NEU RD/MACK SCHOOL RD	SE CORNER ACCESS ROAD W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	12
NY 21	MACK SCHOOL RD	D CONDERMAN RD	FREMONT	0.4	2	А	NY 21/MACK SCHOOL RD	WIDEN NW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	13
11121	WACK SCHOOL NO	CONDENIMAN NO	TREMON	0.4	-		**NY 21/CONDERMAN RD	WIDEN SE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	14
CANFIELD RD	CONDERMAN RD	TURBINE LOC. T65/T69	FREMONT	1	2	G	CANFIELD RD/ CONDERMAN RD	WIDEN NE CORNER & ISLAND W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	15
I-390 SB OFF RAMP	1-390	CR 121	соностом	0.2	3	Α	I-390 SB OFF RAMP/CR 121	WIDEN NW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	16
LAKE HOLLOW RD	CR 121	POTTER HILL RD	соностом	1.3	3	А	LAKE HOLLOW RD/ CR 121	WIDEN SE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	17
WALTERS RD	WAGER RD	TURBINE LOC. T8/T19/T43	соностом	1	3	G	WALTERS RD/WAGER RD	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	18
WAGER RD	POTTER HILL RD	BROWN HILL RD	COHOCTON	1.1	3	А	***WAGER RD/GRUBER RD	WIDEN NE/SW CORNERS W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	19
BROWN HILL RD	WAGER RD	NEW GALEN RD	COHOCTON/WAYLAND	1.2	3	А	BROWN HILL RD/WAGER RD	WIDEN NW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	20

*ADDITIONAL IMPROVEMENT MAY INVOLVE CONSTRUCTING POTENTIAL ACCESS ROAD TO AVOID EXTENSIVE UTILITY/CULVERT MITIGATION AT THE CR 92 AND NY 21 INTERSECTION

ABBREVIATIONS: A - ASPHALT G - GRAVEL LOC. - LOCATION T&L - ASPHALT TRUING & LEVELING COURSE UTIL. - UTILITY

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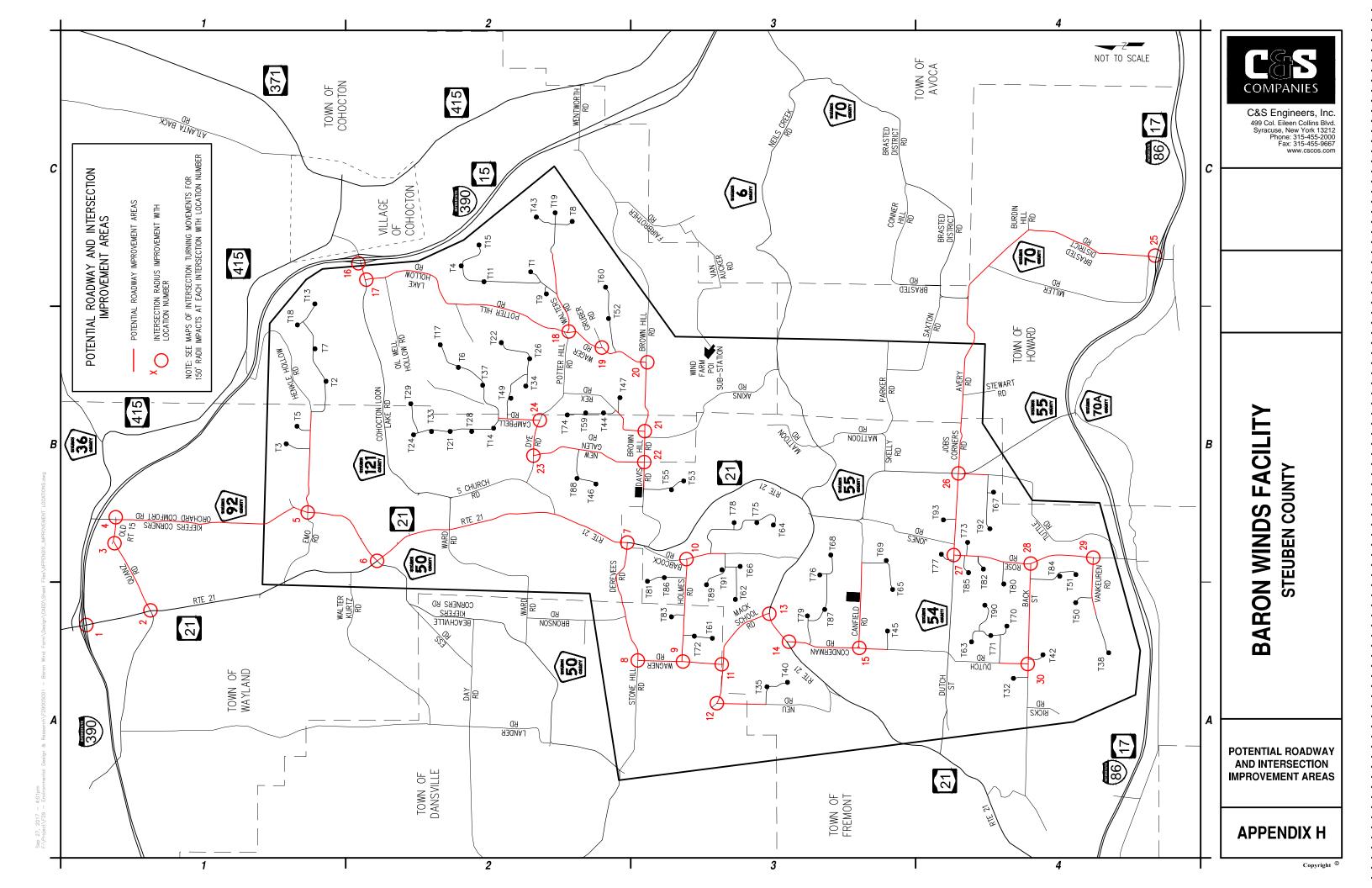
NOTE 2: REFER TO MAP OF POTENTIAL ROADWAY IMPROVEMENT & INTERSECTION IMPROVEMENT LOCATIONS AND MAPS OF INTERSECTION TURNING MOVEMENTS FOR INTERSECTION LOCATIONS

^{**}ADDITIONAL IMPROVEMENT MAY INVOLVE RELOCATING/REPLACING CABLE GUIDE RAIL ON NY 21 AT THE CONDERMAN RD INTERSECTION

^{***}ADDITIONAL IMPROVEMENT MAY INVOLVE LARGE DRAINAGE PIPE EXTENSION AND GUIDE RAIL REPLACEMENT ON WAGER RD

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			BARON V	VINDS	S FACILITY					
		POT	ENTIAL INTERSECTION IF	MPRO\	/EMENT TA	ABLE	(CONTINUED)			
POTENTIAL ACCESS ROUTE ROADS WITH INTERSECTIONS NEEDING IMPROVEMENT	FROM	то	TOWN(S)	LENGTH (MI)	ACCESS ROUTE	TYPE	POTENTIAL INTERSECTION IMPROVEMENT LOCATION	TEMPORARY INTERSECTION IMPROVEMENT SEE NOTE 1 BELOW	PERMANENT INTERSECTION IMPROVEMENT SEE NOTE 1 BELOW	INTERSECTION LOCATION NUMBER SEE NOTE 2 BELOW
REX RD	BROWN HILL RD	TURBINE LOC. T44/T59/T74	WAYLAND/COHOCTON	0.5	3	G	REX RD/BROWN HILL RD	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	21
NEW GALEN RD	BROWN HILL RD	DYE RD	WAYLAND	1.3	3	Α	NEW GALEN RD/BROWN HILL RD	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	22
DYE RD	NEW GALEN RD	CAMPBELL RD	WAYLAND	0.4	3	Α	DYE RD/NEW GALEN RD	WIDEN SE CORNER W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	23
CAMPBELL RD	DYE RD	TURBINE LOC. T37/T6/T17	WAYLAND/COHOCTON	0.5	3	G	CAMPBELL RD/DYE RD	NW CORNER ACCESS ROAD W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	24
I-86/NY 17 WB OFF RAMP	I-86/NY 17	CR 70	HOWARD	0.3	4	Α	I-86/NY 17 WB OFF RAMP/CR 70	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	25
JOBS CORNERS RD	CR 55	HOWARD TOWN LINE	FREMONT	0.6	4	G	JOBS CORNERS RD/CR 55	WIDEN SE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	26
ROSE RD	CR 54	TUTTLE RD	FREMONT	1.8	4	A/G	ROSE RD/CR 54	WIDEN SE CORNER W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	27
BACK ST	ROSE RD	TURBINE LOC. T32	FREMONT	1.2	4	G	BACK ST/ROSE RD	WIDEN NW CORNER W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	28
VAN KEUREN RD	ROSE RD	TURBINE LOC. T38	FREMONT	0.6	4	G	VAN KEUREN RD/ROSE RD	WIDEN NW CORNER W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	29
DUTCH RD	BACK ST	TURBINE LOC. T70/T71/T63/T90	FREMONT	0.3	4	G	BACK ST/DUTCH RD	WIDEN NE CORNER W/12" GRAVEL	REMOVE GRAVEL, ADD 12" TOPSOIL & SEED	30
ALTERNATE ACCESS ROUTE ROADS WITH INTERSECTIONS NEEDING IMPROVEMENT ROADWAY/INTERSECTION IMPROVEMENTS ROADWAY/INTERSECTION IMPROVEMENTS										
CREO	LANDER RD	STONE HILL RD	DANSVILLE	0.9	2	Α	CR 50/LANDER RD	WIDEN SE CORNER & ISLAND W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	N/A
CR 50	LANDER RD				2	A	CR 50/STONE HILL RD	WIDEN NE CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	N/A
WAGNER RD	STONE HILL RD	MACK SCHOOL RD	DANSVILLE	1	2	G	WAGNER RD/STONE HILL RD	WIDEN SW CORNER W/12" GRAVEL	ADD 3" TOPSOIL AND SEED	N/A
ABBREVIATIONS: A - ASPHALT G - GRAVEL LOC LOCATION T&L - ASPHALT TRUING & LEVELING COURSE UTIL UTILITY					NOTE 1: THE ROADWAY IMPROVEMENTS IN THE TABLE ARE ONLY SUGGESTED RECOMMENDATIONS, THE FINAL ROADWA MITIGATION WILL BE DECIDED BY TOWN AND COUNTY HIGHWAY OFFICIALS AND INCLUDED IN A ROAD USE AGREEMENT WITH THE WIND PROJECT DEVELOPER, BARON WINDS, LLC NOTE 2: REFER TO MAP OF POTENTIAL ROADWAY IMPROVEMENT & INTERSECTION IMPROVEMENT LOCATIONS AND MAPS OF INTERSECTION TURNING MOVEMENTS FOR INTERSECTION LOCATIONS					AD USE AGREEMENT





LOCATION 1 - I-390 SOUTHBOUND OFF-RAMP (EXIT 3) AT STATE ROUTE 21



LOCATION 2 - STATE ROUTE 21 AT QUANZ RD

NOTE:

APPROXIMATE LOCATIONS ARE SHOWN FOR TRUCK TURNING MOVEMENTS.
DEVELOPER NEEDS TO APPLY THE STANDARD TRUCK TURNING RADII IN ORDER TO VERIFY INTERSECTION IMPROVEMENTS REQUIRED.

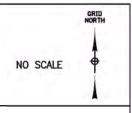
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 3 - QUANZ RD AT OLD STATE ROUTE 15



LOCATION 4 - OLD STATE ROUTE 15 AT CR 92 KIEFERS CORNERS-ORCHARD COMFORT RD

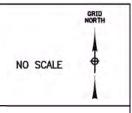
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 5 - CR 92 KIEFERS CORNERS-ORCHARD COMFORT RD AT EMO RD



LOCATION 6 - STATE ROUTE 21 AT CR 50 BEACHVILLE-KIEFERS CORNERS RD / CR 92 KIEFERS CORNERS-ORCHARD COMFORT RD

NOTE:

APPROXIMATE LOCATIONS ARE SHOWN FOR TRUCK TURNING MOVEMENTS.
DEVELOPER NEEDS TO APPLY THE STANDARD TRUCK TURNING RADII IN ORDER TO VERIFY INTERSECTION IMPROVEMENTS REQUIRED.

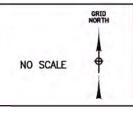
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 7 - STATE ROUTE 21 AT DEREVEES RD



LOCATION 8 - STONE HILL RD AT WAGNER RD

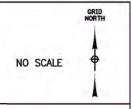
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 9 - WAGNER RD AT HOLMES RD



LOCATION 10 - HOLMES RD AT BABCOCK RD

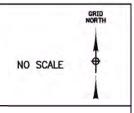
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 11 - WAGNER RD AT MACK SCHOOL RD



LOCATION 12 - MACK SCHOOL RD AT NEU RD

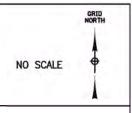
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 13 - MACK SCHOOL RD AT STATE ROUTE 21



LOCATION 14 - STATE ROUTE 21 AT CONDERMAN RD

NOTE:

APPROXIMATE LOCATIONS ARE SHOWN FOR TRUCK TURNING MOVEMENTS.
DEVELOPER NEEDS TO APPLY THE STANDARD TRUCK TURNING RADII IN ORDER TO VERIFY INTERSECTION IMPROVEMENTS REQUIRED.

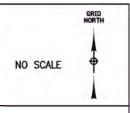
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 15 - CONDERMAN RD AT CANFIELD RD



LOCATION 16 - I-390 SOUTHBOUND OFF-RAMP (EXIT 2) AT CR 121 COHOCTON-LOON LAKE RD

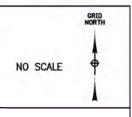
TURNING MOVEMENT KEY

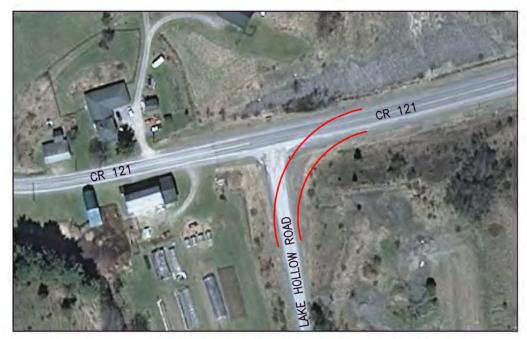


150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 17 - CR 121 COHOCTON-LOON LAKE RD AT LAKE HOLLOW RD



LOCATION 18 - WAGER RD AT WALTERS RD

NOTE:

APPROXIMATE LOCATIONS ARE SHOWN FOR TRUCK TURNING MOVEMENTS.
DEVELOPER NEEDS TO APPLY THE STANDARD TRUCK TURNING RADII IN ORDER TO VERIFY INTERSECTION IMPROVEMENTS REQUIRED.

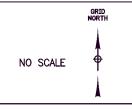
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 19 - WAGER RD AT GRUBER RD



LOCATION 20 - WAGER RD AT BROWN HILL RD

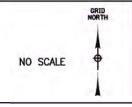
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 21 - BROWN HILL RD AT REX RD



LOCATION 22 - BROWN HILL RD AT NEW GALEN RD

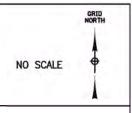
TURNING MOVEMENT KEY

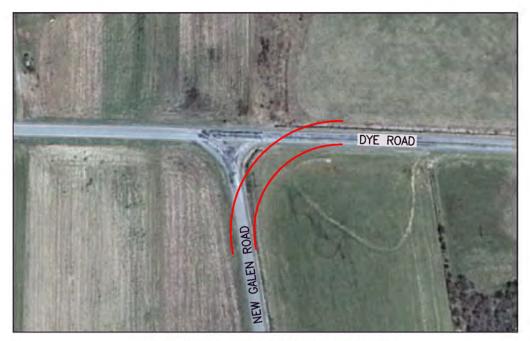


150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 23 - NEW GALEN RD AT DYE RD



LOCATION 24 - DYE RD AT CAMPBELL RD

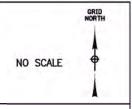
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 25 - I-86 WESTBOUND OFF-RAMP (EXIT 35) AT CR 70



LOCATION 26 - JOBS CORNERS RD AT CR 55 BACON SCHOOL-HASKINVILLE RD

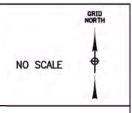
TURNING MOVEMENT KEY



150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 27 - CR 54 DUTCH ST AT ROSE RD



LOCATION 28 - ROSE RD AT BACK ST

NOTE:

APPROXIMATE LOCATIONS ARE SHOWN FOR TRUCK TURNING MOVEMENTS.
DEVELOPER NEEDS TO APPLY THE STANDARD TRUCK TURNING RADII IN ORDER TO VERIFY INTERSECTION IMPROVEMENTS REQUIRED.

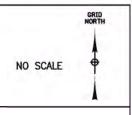
TURNING MOVEMENT KEY

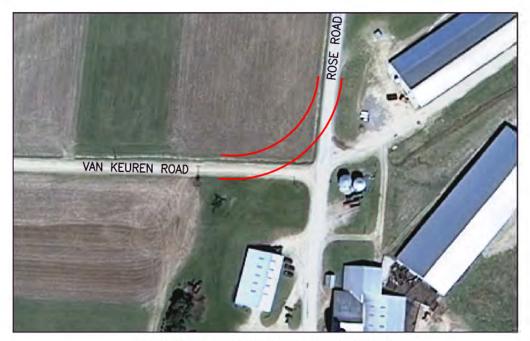


150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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LOCATION 29 - ROSE RD AT VAN KEUREN RD



LOCATION 30 - BACK ST AT DUTCH RD

TURNING MOVEMENT KEY

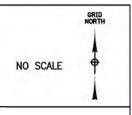


150' INSIDE RADIUS, 40.8' WIDTH TO ALLOW FOR TURNING MOVEMENT



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APPENDIX I

Table of Construction Vehicle Volumes

Maps of Construction Vehicle Routes/Volumes



APPENDIX I

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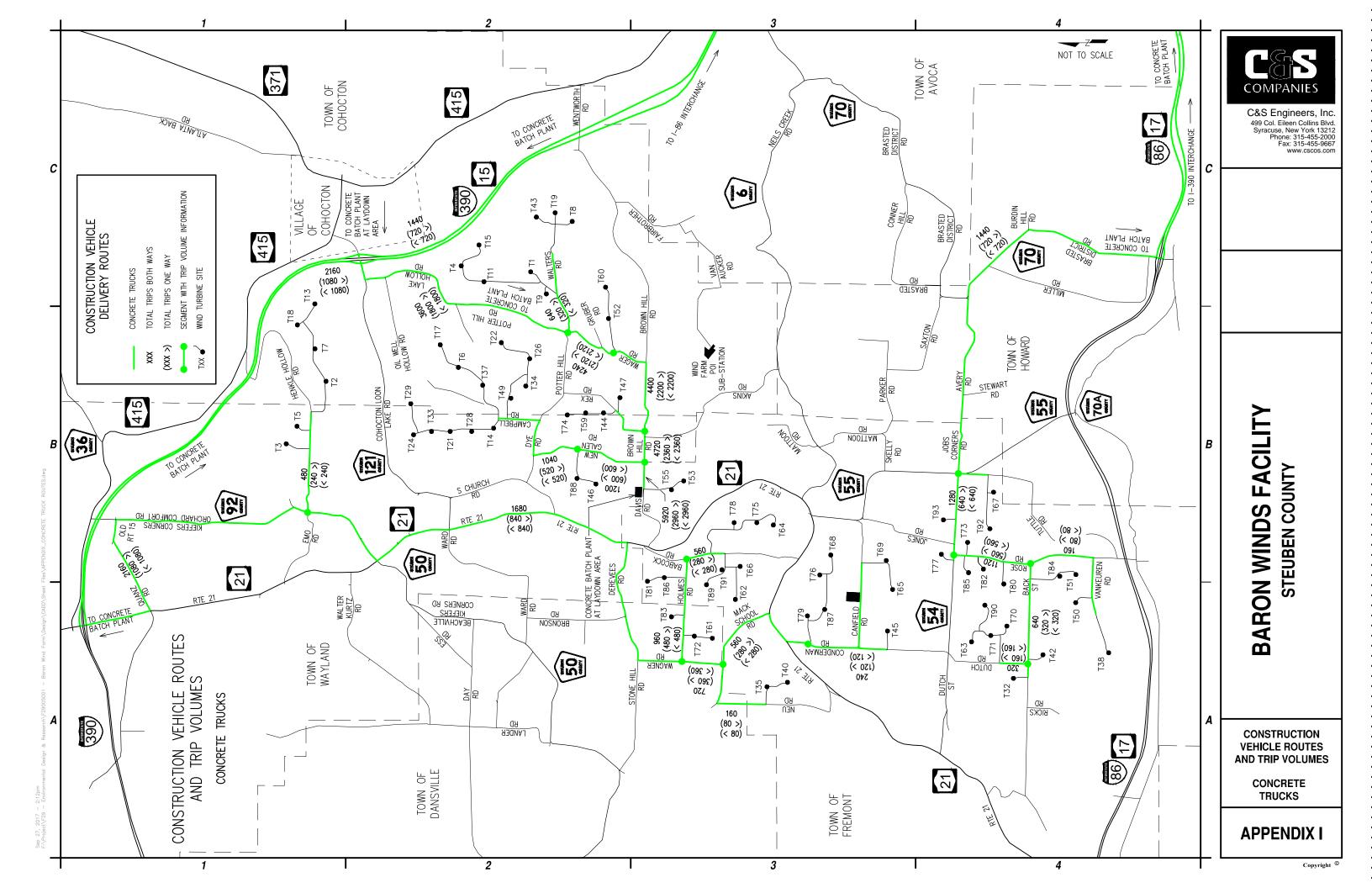
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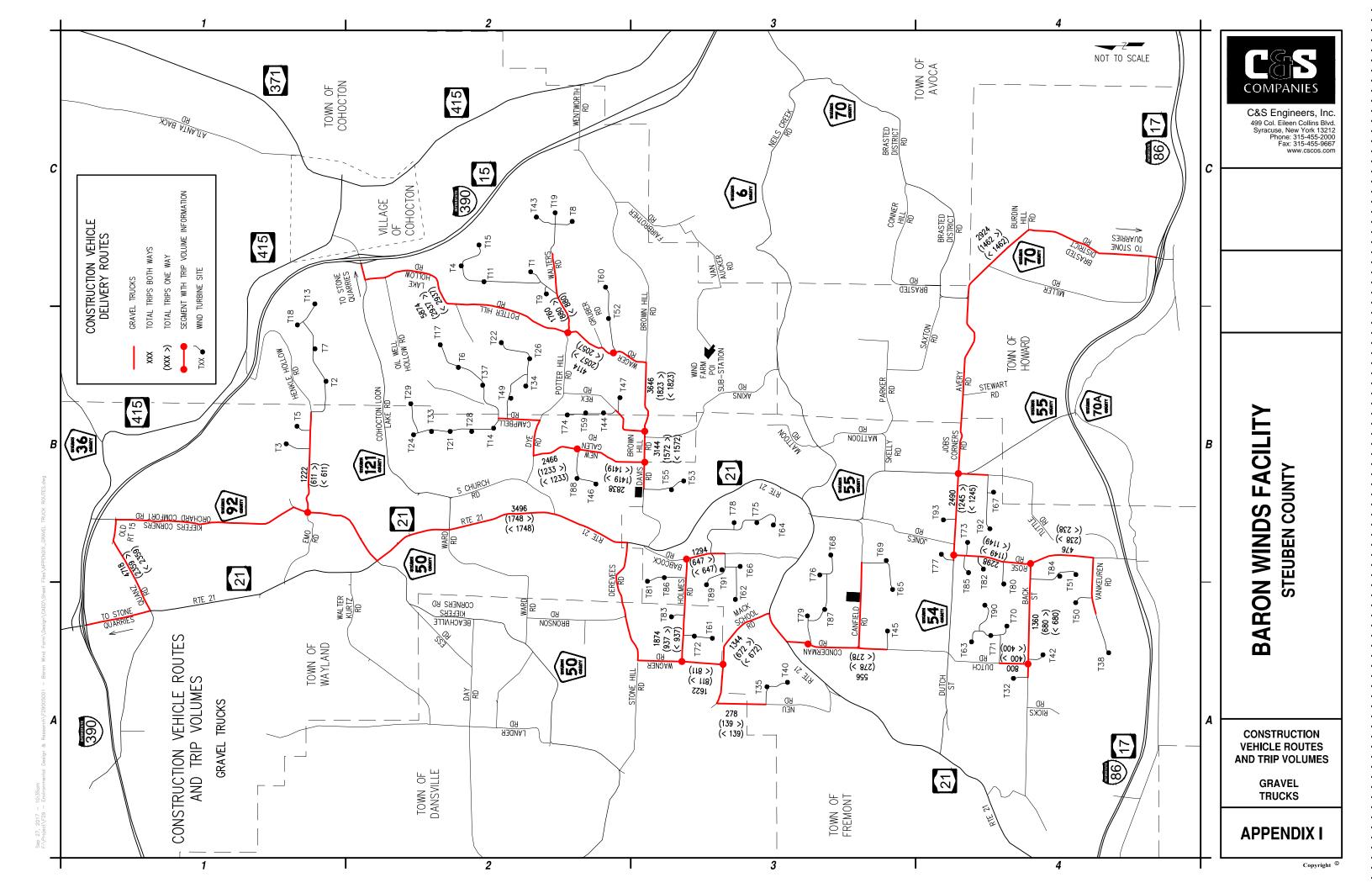
CONSTRUCTION VEHICLE VOLUMES

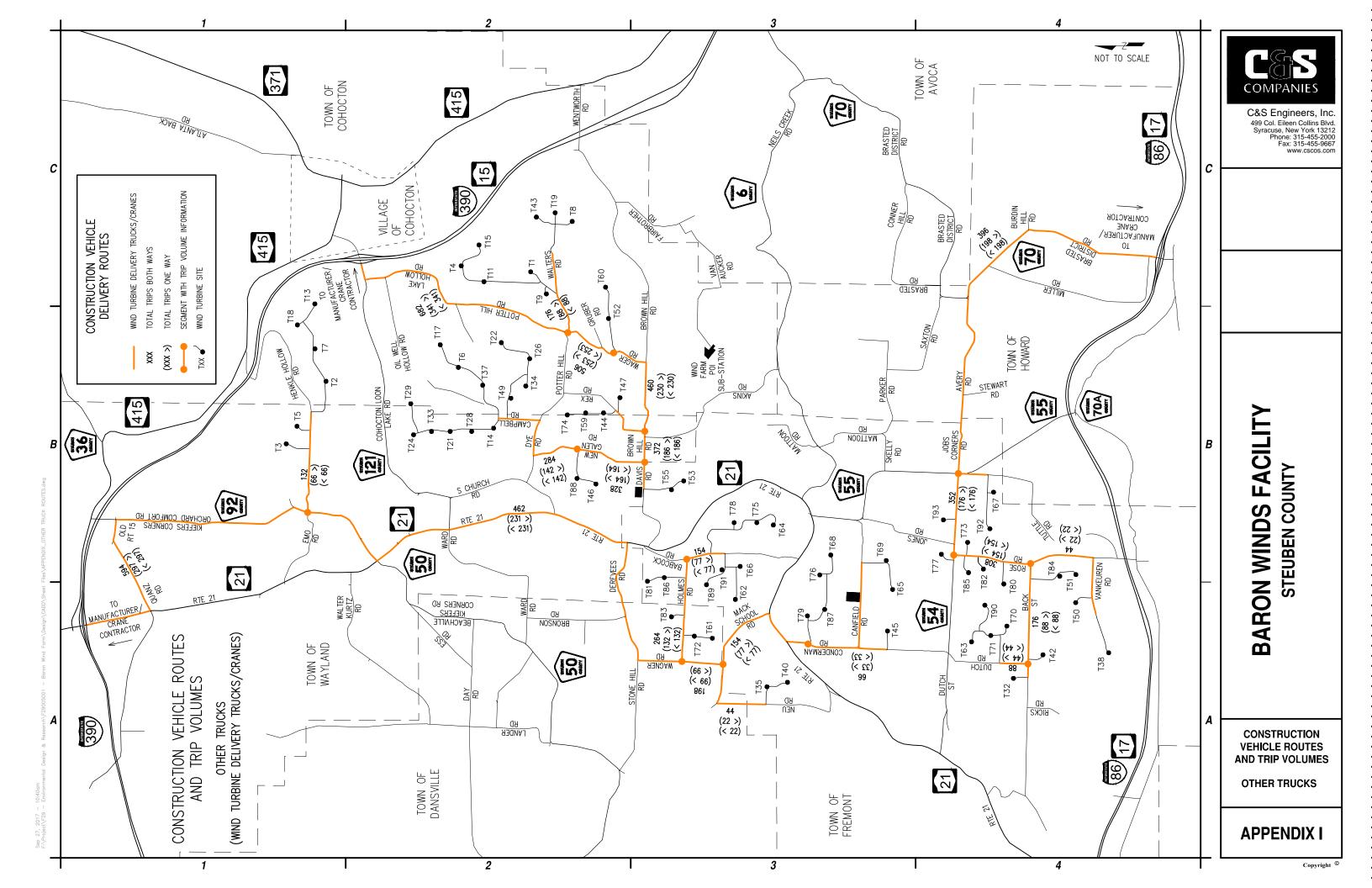
	ONSTRUCTI	OIV VEITICEE	VOLOIVIL	.5			
CONSTRUCTION ROUTES	GRAVEL CY	GRAVEL TRUCK VOLUME	CONCRETE MIX CY	CONCRETE TRUCK VOLUME	NO. OF TURBINES PER ACCESS ROUTE		CRANE VOLUME
ACCESS ROUTE #1	6101	611	2400	240	6	54	12
ACCESS ROUTE #2	17471	1748	8400	840	21	189	42
ACCESS ROUTE #3	29367	2937	12400	1240	31	279	62
ACCESS ROUTE #4	14618	1462	7200	720	18	162	36
VOLUME TOTALS		6758		3040	76	684	152

NOTE - VOLUMES BASED ON:

10 CY PER GRAVEL TRUCK 10 CY PER CONCRETE TRUCK 9 FLATBEDS PER TURBINE 2 CRANE MOVES PER TURBINE







APPENDIX J

Table of Bridge and Large Culvert Rating Information

Table of Culvert Locations

Map of Existing Bridge & Large Culvert Locations

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BRIDGE AND LARGE CULVERT RATING TABLE

BRIDGE RATING INFORMATION (SEE NOTES 1 & 5 BELOW)

											•				,											
ROUTE/ROAD NAME	FROM	то	TOWN(S)	BIN NO(S).	FEATURE CROSSED	LOCATION	FLAGGED BRIDGE	POSTED BRIDGE	HS INVENTO RATING (LEVEL 1)	F	OPERATING RATING LEVEL 1)	RA	VENTORY ATING VEL 2)	RA	ERATING ITING VEL 2)	CONDITION RATING	GENERAL RECOMMENDATIO N RATING	LATEST INSPECTION DATE	SUFFICIENCY RATING	YEAR BUILT	NO. OF SPANS	LONGEST SPAN LENGTH (FT)	BRIDGE LENGTH (FT)	HORIZONTAL CLEARANCE (FT)	COMMENTS	POTENTIAL ACCESS ROUTE NUMBERS
NY 21	CR 121	CR 6	WAYLAND/FREMONT	1016400	TRIB NEIL CREEK	RM 21 6402 3123	No	No	HS 20 46 1	r HS 2	20 76 T	HS -	- T	HS -	- T	6.286	6	11/18/2015	0881	2007	1	37	37	29		
I-390 SB	WARREN HILL RD BRIDGE	WENTWORTH RD BRIDGE	COHOCTON	1090691	CR 121	RM 390I 6401 1109	No	No	HS 1	T HS	T	HS 20	52 T	HS 20	121 T	5.266(2014)	4	5/24/2016	-	1976	1	103	107	41	Sufficiency Rating not listed in the Bridge Data Info System	
I-390 NB	WARREN HILL RD BRIDGE	WENTWORTH RD BRIDGE	COHOCTON	1090692	CR 121	RM 390I 6401 1109	No	No	HS 1	T HS	T	HS 20	52 T	HS 20	130 T	5.297(2014)	4	5/20/2016	0857	1976	1	103	107	41	·	
I-390 SB	CR 90 BRIDGE	CR 92 BRIDGE	WAYLAND	1090721	NY 21	RM 390I 6401 1166	No	No	HS 1	T HS	T	HS 20	49 T	HS 20	82 T	5.73	6	9/10/2015	0957	1975	1	116	119	41		
I-390 NB	CR 90 BRIDGE	CR 92 BRIDGE	WAYLAND	1090722	NY 21	RM 390I 6401 1166	No	No	HS 1	ΓHS	T	HS 20	49 T	HS 20	83 T	5.476	5	9/10/2015	0967	1975	1	116	119	41		
CR 70	CR 70A	SMITH POND RD	HOWARD	1061880	I-86/NY 17	RM 962B 6401 1002	No	No	HS 1					HS 20	95 T	4.766	5	10/21/2014		1970	2	117	239	59		
CR 6	MATTOON RD	ATKINS RD	AVOCA	3332900	NEILS CREEK	1.2 MILES EAST OF HASKINVILLE	No	No	HS 20 56 1						91 T	6.391	6	10/31/2014				57	60	30		
MATTOON RD	CR 6	DEAD END	FREMONT	2216990	NEILS CREEK	0.8 MILES EAST OF HASKINVILLE	No	No	HS 20 99 1	r HS 2	20 99 T	HS -	- T	HS -	- T	5.526	5	11/10/2015	0940	1997	2	10	21	28		
	LARGE CULVERT RATING INFORMATION, 5' TO 20' (SEE NOTES 2, 3 & 4 BELOW)																									
ROUTE/ROAD NAME	FROM	то	TOWN(5)	CIN NO. OR STRUCTURE NO.	FEATURE CROSSED	LOCATION	FLAGGED CULVERT	POSTED CULVERT	HS INVENTO RATING (LEVEL 1)	F	OPERATING RATING LEVEL 1)	RA	VENTORY ATING VEL 2)	RA	ERATING ITING VEL 2)	CONDITION RATING 1 (FAILED) THRU 7 (NEW)	GENERAL RECOMMENDATIO N RATING	LATEST INSPECTION DATE	SUFFICIENCY RATING	YEAR BUILT	NO. OF SPANS	MAXIMUM SPAN LENGTH (FT)	HORIZON	ITAL CLEARANCE (FT)	COMMENTS	POTENTIAL ACCESS ROUTE NUMBERS
NY 21	CR 6	HASKINVILLE RD	FREMONT	C640560	UKNOWN STREAM	RM 21 6402 3100	No	No	N/A N/	A N/A	A N/A	N/A	N/A	N/A	N/A	6.316	N/A	7/17/2015		2007	1	17		35	15' CORRUGATED METAL ARCH	
NY 21	CR 50	CR 121	WAYLAND	C640580	UKNOWN STREAM	RM 21 6402 3149	No	No	N/A N/			N/A	N/A	N/A	N/A	4.762	N/A	10/16/2014			2	7			2'X10' CONC ARCH, CORR. METAL LINING	2
NY 21	I-390	CR 92	WAYLAND	C640590	UKNOWN STREAM	RM 21 6402 3171	No	No	N/A N/			N/A	N/A	N/A	N/A	5.81	N/A	7/19/2013			1	16		34	20' CONC. ARCH, CORR. METAL LINING	
NY 21	I-390	CR 92	WAYLAND	C640600	UKNOWN STREAM	RM 21 6402 3172	No	No	N/A N/				N/A		N/A	4.276	N/A	7/27/2015						28	12' CONCRETE BOX	
NY 21	I-390	CR 92	WAYLAND	C640610	UKNOWN STREAM	RM 21 6402 3180	No	No	N/A N/				N/A	N/A	N/A	4.457	N/A	10/15/2014			1	16		30	14' CONCRETE BOX	
CR 50	WARD RD	DAY RD	DANSVILLE	050-01	UKNOWN STREAM	1.1 MI NORTH OF WARD RD	No	No	N/A N/			N/A		N/A	N/A	7	N/A	2008	N/A					28	5' IRON PIPE	
CR 50	STONE HILL RD	LANDER RD	HOWARD	050-01.5	UKNOWN STREAM	0.4 MILES NORTH OF STONE HILL RD	No	No	N/A N/			N/A		N/A	N/A	7	N/A	2008	N/A						5' CORRUGATED PLASTIC PIPE (SICPP)	
CR 50	STONE HILL RD	LANDER RD	HOWARD	050-02	UKNOWN STREAM	0.3 MILES NORTH OF STONE HILL RD	No	No	N/A N/			N/A		N/A	N/A	6	N/A	2008		2000					5' IRON PIPE	
CR 55	NY 21	CANFIELD RD	FREMONT	055-01	UKNOWN STREAM	200' NORTH OF CANFIELD RD	No	No	N/A N/		A N/A	_	N/A		N/A	4	N/A	2016	N/A	-	1			33.5	10' CONCRETE BOX , GUIDE RAIL NEEDS REPAIR, YR BUILT UNKNOWN	
CR 55	JONES RD	SKELLY RD	FREMONT	055-02	UKNOWN STREAM	0.2 MILES EAST OF JONES RD	No	No	N/A N/A			N/A		N/A	N/A	3	N/A	2016	N/A	-	1	12		36	10' CONCRETE BOX, YR BUILT UNKNOWN	
CR 70	MILLER RD (NORTH)	BURDIN HILL RD	HOWARD	070-01	UKNOWN STREAM	JUST WEST OF BURDIN HILL RD	No	No	N/A N/A		,	N/A		N/A	N/A	5	N/A	2008	N/A					38.7	5' IRON PIPE	4
CR 70	SAXTON RD	BRASTED RD	HOWARD	070-02	UKNOWN STREAM	190' WEST OF BRASTED RD	No	No	N/A N/			N/A		N/A	N/A	6	N/A	2008		1998	1	12		31.8	14'x6' CONCRETE BOX	
CR 70	BRASTED RD	CONNER HILL RD	HOWARD	070-03	UKNOWN STREAM	0.2 MILES SOUTH CONNER HILL RD	No	No	N/A N/A			N/A		N/A	N/A	5	N/A	2016	N/A	-	1			/	6' PIPE, ROCK PROTRUDING THRU PIPE, YR BUILT UNKNOWN	
CR 121	S CHURCH RD	LAKE HOLLOW RD	COHOCTON	121-?	UKNOWN STREAM	600' WEST OF LAKE HOLLOW RD	No	No	N/A N/	A N/A	A N/A	N/A	N/A	N/A	N/A	6	N/A	-	N/A	2003	1			36'+/-	10' IRON PIPE, INSPECTION DATE UNKNOWN	3
																					1					
-		-					1		Large Culve	rts do not	t have load		-					-1 c m			-					
1				1			1		ratings do	ne on the	em under	<u> </u>	1	1		 		The Suffic		-	\vdash					
1				1			1		normal circui			<u> </u>	1	1		 		Federal Ra			\vdash					
1							1		data in the			<u> </u>	1			1		Large culver			-					
-							 		4	ratings.			1			 		on the fede			\vdash					
 				1			1		 			1	1	1		 		not have a	ынтстепсу	rating.	\vdash					
							1		 	_	_		1			1		1	1		-					

NOTE 1 - BRIDGE RATING INFORMATION FROM FREEDOM OF INFORMATION LAW (FOIL) REQUEST FR6-16-000380 TO NYSDOT, REGION 6, DATED 12/20/16

NOTE 2 - NYSDOT CULVERT RATING INFORMATION FROM FREEDOM OF INFORMATION LAW (FOIL) REQUEST FR6-16-000380 TO NYSDOT, REGION 6, DATED 1/06/17. STEUBEN COUNTY CULVERT RATING INFORMATION FROM EMAIL REQUEST TO STEUBEN COUNTY PUBLIC WORKS DEPT., DATED 01/04/2017

NOTE 3 - ACCORDING TO THE TOWN SUPERVISORS FOR THE TOWNS OF AVOCA, COHOCTON, DANSVILLE, FREMONT, HOWARD, AND WAYLAND, THERE IS NO CULVERT RATING INFORMATION FOR THE LARGE CULVERTS LOCATED ALONG THEIR TOWN ROADS.

NOTE 4 - CULVERT RATING NUMBERS IN THE ABOVE TABLE FOR LARGE CULVERTS FOLLOW THE NUMERICAL RATING SCALE FROM PAGE 67 OF THE 2006 NYSDOT CULVERT INVENTORY AND INSPECTION MANUAL. THE FOLLOWING NUMERICAL RATING SCALE DEFINITIONS ARE: 7 - NEW CONDITION, NO DETERIORATION; 6 - USED TO SHADE BETWEEN RATINGS OF 5 AND 7; 5 - MINOR DETERIORATION BUT FUNCTIONING AS ORIGINALLY DESIGNED; 4 - USED TO SHADE BETWEEN RATINGS OF 3 AND 5, FUNCTIONING AS ORIGINALLY DESIGNED; 3 - SERIOUS DETERIORATION OR NOT FUNCTIONING AS DRIGINALLY DESIGNED; 2 - USED TO SHADE BETWEEN RATINGS OF 1 AND 3; 1 - TOTALLY DETERIORATED OR IN A FAILED CONDITION. POTENTIALLY HAZARDOUS

NOTE 5 - HS TRUCK RATINGS: NYSDOT POLICY REQUIRES THAT ALL EXISTING BRIDGES BE LOAD RATED USING THE HS-20 (36 TON) TRUCK AND HAVE THE CAPACITY TO CARRY THIS LOAD WITHOUT THE NEED FOR LOAD POSTING. THIS HS-20 TRUCK IS A THREE AXLE TRUCK WITH THE FRONT AXLE LOAD OF 4 TONS, AND TWO SEPARATE REAR AXLE LOADS OF 16 TONS EACH. IF IT IS DETERMINED THAT HE BRIDGE RATING IS 36 TONS OR GREATER, THEN AN H-20 (20 TONS) TRUCK RATING IS NOT REQUIRED. H-20 TRUCK RATINGS ARE USED WHEN A BRIDGE RATES LESS THAN 36 TONS AND MAY NEED TO BE LOAD POSTED.

ABBREVIATIONS:

RM - STATE REFERENCE MARKER SIGN LOCATION



APPENDIX J

BARON WINDS FACILITY

CULVERT LOCATION TABLE

ROUTE/ROAD NAME	FROM	то	LENGTH (MI)	TOWN(S)	CULVERT INFORMATION (INCLUDES BRIDGE LOCATIONS)	POTENTIAL ACCES ROUTE NUMBERS
NY 21	I-390/NY 15	DEREVEES RD	6.5	WAYLAND	CULVERT 1: 5' CMP ARCH, 5' COVER, 0.1 MI SOUTH OF I-390 CULVERT 2: UNKNOWN, 5' COVER, 0.3 MI SOUTH OF I-390 CULVERT 3: 36" CMP, 6' COVER, 0.4 MI SOUTH OF I-390 CULVERT 3: 660610, 14' CONCRETE BOX, 2.5'-3' COVER, 0.8 MI SOUTH OF I-390 CULVERT 5: C640600, 12' CONCRETE BOX, 2.5'-3' COVER, 1.6 MI SOUTH OF I-390 CULVERT 5: C640590, 20' CONCRETE ARCH W/CORR. METAL LINING, MIN. 2.5' COVER, 1.7 MI SOUTH OF I-390 CULVERT 7: UNKNOWN, 1.9 MI SOUTH OF I-390 CULVERT 7: UNKNOWN, 1.9 MI SOUTH OF I-390 CULVERT 9: 18" IRON, 7' COVER, 2.2 MI SOUTH OF I-390 CULVERT 9: 18" CMP, 2' COVER, 0.3 MI SOUTH OF EMO RD CULVERT 10: 30" IRON, 1' COVER, 0.7 MI SOUTH OF EMO RD CULVERT 11: UNKNOWN, 7' COVER, AT WALTER KURTZ RD CULVERT 12: UNKNOWN, 7' COVER, AT WALTER KURTZ RD CULVERT 13: 30" IRON, 4' COVER, JUST SOUTH OF CR 50 CULVERT 14: C640580, 2'X10' CONCRETE ARCH W/CORR. METAL LINING, 2'+ COVER, 0.6 MI SOUTH OF CR 50 CULVERT 15: UNKNOWN IRON, 6' COVER, 0.3 MI SOUTH OF CR 121 CULVERT 16: 36" CONCRETE, 4' COVER, 0.4 MI SOUTH OF CR 121 CULVERT 17: 4' CONCRETE, 6' COVER, 0.5 MI SOUTH OF CR 121 CULVERT 19: 24" CMP, 15' COVER, 0.5 MI SOUTH OF CR 121 CULVERT 20: 24" CMP, 4' COVER, 0.5 MI SOUTH OF CR 121 CULVERT 22: 36" CMP, 4' COVER, 0.7 MI SOUTH OF CR 121 CULVERT 22: 36" CMP, 4' COVER, 0.7 MI SOUTH OF CR 121 CULVERT 22: 36" CMP, 4' COVER, 0.8 MI SOUTH OF CR 121 CULVERT 22: 36" CMP, 4' COVER, 0.7 MI SOUTH OF CR 121 CULVERT 22: 36" CMP, 4' COVER, 0.7 MI SOUTH OF CR 121 CULVERT 22: 36" CMP, 4' COVER, 0.7 MI SOUTH OF S CHURCH RD CULVERT 25: 5' CONCRETE BOX, 5' COVER, 0.3 MI SOUTH OF S CHURCH RD CULVERT 26: 24" CMP, 3' COVER, 0.3 MI SOUTH OF S CHURCH RD CULVERT 26: 24" CMP, 4' COVER, 0.3 MI SOUTH OF S CHURCH RD CULVERT 29: 24" IRON, 4' COVER, 0.6 MI SOUTH OF S CHURCH RD CULVERT 29: 24" IRON, 4' COVER, 0.6 MI SOUTH OF S CHURCH RD CULVERT 29: 24" IRON, 4' COVER, 0.6 MI SOUTH OF S CHURCH RD CULVERT 29: 24" IRON, 4' COVER, 0.6 MI SOUTH OF S CHURCH RD	1 & 2 (FROM I-39) TO QUANZ RD)
NY 21	DEREVEES RD	CONDERMAN RD	4.2	FREMONT	BRIDGE (1016400), SEE BRIDGE TABLE FOR CONDITION INFO, JUST SOUTH OF DEREVEES RD CULVERT 1: 36" CMP, 6' COVER, JUST NORTH OF DAVIS RD CULVERT 2: 30" CMP, 4' COVER, 200' SOUTH OF DAVIS RD CULVERT 3: 36" CMP, 5' COVER, 400' SOUTH OF DAVIS RD CULVERT 3: 36" CMP, 5' COVER, 400' SOUTH OF DAVIS RD CULVERT 5: 30" CMP, 4' COVER, 800' SOUTH OF DAVIS RD CULVERT 6: 4.5' CONCRETE BOX, 4' COVER, 1000' SOUTH OF DAVIS RD CULVERT 7: 36" CMP, 4' COVER, 1200' SOUTH OF DAVIS RD CULVERT 7: 36" CMP, 4' COVER, 1200' SOUTH OF DAVIS RD CULVERT 9: 44" SICPP, 3' COVER, 1500' SOUTH OF DAVIS RD CULVERT 9: 40" CONCRETE, 4' COVER, 1800' SOUTH OF DAVIS RD CULVERT 10: 24" CMP, 3' COVER, 1900' SOUTH OF DAVIS RD CULVERT 10: 24" CMP, 3' COVER, 1900' SOUTH OF DAVIS RD CULVERT 11: 40" CONCRETE, 12' COVER, 2200' SOUTH OF DAVIS RD CULVERT 11: 40" CONCRETE, 12' COVER, 2200' SOUTH OF DAVIS RD CULVERT 11: 40" CONCRETE, 12' COVER, 2200' SOUTH OF DAVIS RD CULVERT 11: 40" CONCRETE, 12' COVER, 2200' SOUTH OF DAVIS RD CULVERT 11: 40" CONCRETE, 12' COVER, 200' SOUTH OF DAVIS RD CULVERT 11: 30" IGMP, 4' COVER, 2900' SOUTH OF DAVIS RD CULVERT 11: 30" IGMP, 4' COVER, JUST SOUTH OF CR 6 CULVERT 15: 30" IGMP, 100' SOUTH OF CR 6 CULVERT 16: 24" CMP, 6' COVER, 300' WEST OF BABCOCK RD CULVERT 18: 24" CMP, 6' COVER, 200' WEST OF BABCOCK RD CULVERT 19: 48" CMP, 8' COVER, 1600' WEST OF BABCOCK RD CULVERT 19: 48" CMP, 8' COVER, 1600' WEST OF BABCOCK RD CULVERT 120 30" CMP WITH ASPHALT LINING, 4' COVER, 800' EAST OF CONDERMAN RD	2 (FROM MACK SCHOOL RD TO CONDERMAN RD)
CR 50 BEACHVILLE-KIEFERS CORNERS RD	NY 21	STONE HILL RD	4.3	WAYLAND	CUIVERT 1: 24" IRON, 2' COVER, 700' NORTH OF ESS RD CUIVERT 2: 24" CMP, 2' COVER, JUST SOUTH OF ESS RD CUIVERT 3: 18" IRON, 4' COVER, 0.7 MI NORTH OF DAY RD CUIVERT 3: 18" CMP, 4' COVER, 0.6 MI NORTH OF DAY RD CUIVERT 5: 18" CMP, 1' COVER, 2500' NORTH OF DAY RD CUIVERT 6: 18" CMP, 1' COVER, 2000' NORTH OF DAY RD CUIVERT 7: 30" CMP, 1' COVER, 1800' NORTH OF DAY RD CUIVERT 7: 30" CMP, 1' COVER, 1800' NORTH OF DAY RD CUIVERT 9: 24" CMP, 1' COVER, 1000' NORTH OF DAY RD CUIVERT 9: 24" CMP, 6' COVER, 300' NORTH OF DAY RD CUIVERT 10: 18" SICPP, 4' COVER, 1.2 MI NORTH OF WARD RD CUIVERT 11: 30" SICPP, 1' COVER, 1.1 MI NORTH OF WARD RD CUIVERT 12: 30" SICPP, 1' COVER, 1 MI NORTH OF WARD RD CUIVERT 13: 36" CMP, 4' COVER, 1 MI NORTH OF WARD RD CUIVERT 13: 36" CMP, 4' COVER, 2000' NORTH OF WARD RD CUIVERT 14: 18" CMP, 2' COVER, 1400' NORTH OF WARD RD	POTENTIAL ALTERNATE ROUT





BARON WINDS FACILITY

CULVERT LOCATION TABLE (CONTINUED)

				CULVERT LOC	ATION TABLE (CONTINUED)	
ROUTE/ROAD NAME	FROM	то	LENGTH (MI)	TOWN(S)	CULVERT INFORMATION (INCLUDES BRIDGE LOCATIONS)	POTENTIAL ACCESS ROUTE NUMBERS
CR 50 BEACHVILLE-KIEFERS CORNERS RD (CONTINUED)	NY 21	STONE HILL RD	4.3	DANSVILLE	CULVERT 15: 24" CMP, 3' COVER, 1100' NORTH OF WARD RD CULVERT 16: 18" CMP, 3' COVER, 1000' NORTH OF WARD RD CULVERT 17: 18" CMP, 4' COVER, 200' NORTH OF WARD RD CULVERT 18: 18" CMP, 3' COVER, 1 MI EAST OF LANDER RD CULVERT 19: 18" IRON, 1' COVER, 0.9 MI EAST OF LANDER RD CULVERT 20: 24" IRON, 6' COVER, 0.8 MI EAST OF LANDER RD CULVERT 20: 30" SICPP, 2' COVER, 0.5 MI EAST OF LANDER RD CULVERT 23: 24" CMP, 3' COVER, 0.5 MI EAST OF LANDER RD CULVERT 24: 18" CMP, 2' COVER, 0.2 MI EAST OF LANDER RD CULVERT 24: 18" CMP, 2' COVER, 0.5 MI EAST OF LANDER RD CULVERT 25: 24" CMP, 2' COVER, 0.5 MI EAST OF LANDER RD CULVERT 26: 24" CMP, 2' COVER, 200' SOUTH OF LANDER RD CULVERT 26: 24" CMP, 2' COVER, 200' NORTH OF STONE HILL RD CULVERT 26: 28" SIRON, 1' COVER, 2000' NORTH OF STONE HILL RD CULVERT 28: 5' IRON, 1' COVER, 1600' NORTH OF STONE HILL RD CULVERT 29: 30" IRON, 3' COVER, 1500' NORTH OF STONE HILL RD CULVERT 29: 30" IRON, 3' COVER, 1500' NORTH OF STONE HILL RD	POTENTIAL ALTERNATE ROUTE
CR 54 DUTCH STREET	CONDERMAN RD	CR 55	2	FREMONT	CULVERT 1: 18" CMP, 6' COVER, 0.4 MI EAST OF CONDERMAN RD CULVERT 2: 18" CMP, 3' COVER, 0.7 MI EAST OF CONDERMAN RD CULVERT 3: 36" SICPP, 3' COVER, 0.8 MI EAST OF CONDERMAN RD CULVERT 4: 24" SICPP, 2' COVER, 0.5 MI EAST OF JONES RD	4 (FROM CR 55 TO JUST WEST OF JONES RD)
CR 55 BACON SCHOOL- HASKINVILLE RD	STEWART RD/I-86/NY 17 BRIDGE	NY 21	3.5	FREMONT/HOWARD	CULVERT 1: 10' CONC BOX CULVERT, 4' COVER, 200' NORTH OF CANFIELD RD CULVERT 2: 24" CMP, 2' COVER, 100' EAST OF JONES RD CULVERT 3: 10' CONC BOX CULVERT, 10' COVER, 1000' EAST OF JONES RD CULVERT 4: 18" RCP, 4' COVER, 200' NORTH OF SKELLY RD CULVERT 5: 18" RCP, 2' COVER, 1000' SOUTH OF SKELLY RD CULVERT 6: 18" RCP, 2' COVER, 2500' SOUTH OF SKELLY RD CULVERT 7/8: TWO 24" CMP, 2' COVER, EITHER SIDE OF JOBS CORNERS RD CULVERT 9: 18" RCP, 4' COVER, 1500' SOUTH OF TUTTLE RD CULVERT 10: 18" RCP, 1' COVER, 2500' SOUTH OF TUTTLE RD CULVERT 11: 18" RCP, 3' COVER, 100' NORTH OF STEWART RD	4 (FROM CR 54 TO TUTTLE RD)
CR 70 BRASTED DISTRICT RD	I-86/NY 17 INTERCHANGE	AVOCA TOWN LINE	2.7	HOWARD	CULVERT 1: 24" CMP, 2' COVER, 1500' EAST OF BRASTED RD CULVERT 2: 14"X6", UNKNOWN COVER, 190' WEST OF BRASTED RD CULVERT 3: 5' IRON, 6' COVER, JUST WEST OF BURDIN HILL RD CULVERT 3: 5' 24" CMP, 3' COVER, SOUTH OF BURDIN HILL RD	4 (FROM I-86/NY 17 TO AVERY RD)
CR 92 KIEFERS CORS- ORCHARD COMFORT	NY 21	OLD ROUTE 15	4	WAYLAND	CULVERT 1: 30" IRON, 3" COVER, JUST EAST OF NY 21 CULVERT 2: 18" CMP, 2" COVER, 200" NORTH OF LAF-A-LOT RD CULVERT 3: 36" IRON, <1" COVER, 0.1 MI SOUTH OF HENRY DRUM RD CULVERT 4: 24" CMP/SICPP, 3" COVER, 2 MI SOUTH OF OLD ROUTE 15 CULVERT 5: UNKNOWN, 1.7 MI SOUTH OF OLD ROUTE 15 CULVERT 6: UNKNOWN, 1.5 MI SOUTH OF OLD ROUTE 15 CULVERT 7: UNKNOWN, 6" COVER, 0.7 MI SOUTH OF OLD ROUTE 15 CULVERT 8: 4" IRON, 3" COVER, 0.3 MI SOUTH OF OLD ROUTE 15 CULVERT 9: 36" SICPP, 6" COVER, 100" SOUTH OF OLD ROUTE 15 CULVERT 9: 36" SICPP, 6" COVER, 100" SOUTH OF OLD ROUTE 15	1&2
CR 121 COHOCTON-LOON LAKE RD	NY 21	I-390/NY 15	3.5	WAYLAND/COHOCTON	CULVERT 1: UNKNOWN, 6' COVER, 300' WEST OF LAKE HOLLOW RD CULVERT 2: 10' IRON, 5' COVER, 600' WEST OF LAKE HOLLOW RD CULVERT 3: 30" SICPP, 4' COVER, 0.2 MI WEST OF LAKE HOLLOW RD CULVERT 5: 18" IRON, 4' COVER, 0.9 MI WEST OF LAKE HOLLOW RD CULVERT 5: 18" IRON, 2' COVER, 0.9 MI WEST OF LAKE HOLLOW RD CULVERT 5: 18" IRON, 2' COVER, 0.9 MI WEST OF REYNOLDS CREEK RD CULVERT 7: 24" IRON, 2' COVER, 0.1 MI WEST OF REYNOLDS CREEK RD CULVERT 7: 4" IRON, 2' COVER, 0.2 MI WEST OF REYNOLDS CREEK RD CULVERT 9: 18" IRON, 3' COVER, 0.3 MI WEST OF REYNOLDS CREEK RD CULVERT 10: 24" CMP, 3' COVER, 0.5 MI WEST OF REYNOLDS CREEK RD CULVERT 11: 24" IRON, 3' COVER, 0.7 MI WEST OF REYNOLDS CREEK RD CULVERT 12: 24" IRON, 5' COVER, 0.9 MI WEST OF REYNOLDS CREEK RD CULVERT 13: 24" IRON, 5' COVER, 0.9 MI WEST OF REYNOLDS CREEK RD CULVERT 13: 24" CMP, 5' COVER, 1.3 MI WEST OF REYNOLDS CREEK RD CULVERT 14: 24" CMP, 5' COVER, JUST SOUTH OF E LAKE RD	3 (FROM I-390 TO LAYDOWN AREA, 0.5 MILES WEST OF LAKE HOLLOW RD)
QUANZ RD	NY 21	OLD ROUTE 15	0.9	WAYLAND	CULVERT 1: 24" IRON, 3' COVER, 0.4 MI EAST OF NY 21 CULVERT 2: 24" IRON, 3' COVER, 0.5 MI EAST OF NY 21 CULVERT 3: 18" IRON, 4' COVER, 0.6 MI EAST OF NY 21 CULVERT 1: 18" CONCRETE, 3' COVER, JUST EAST OF QUANZ RD	1 & 2
OLD ROUTE 15	QUANZ RD	CR 92	0.2	WAYLAND	CULVERT 1: 18" CONCRETE, 3" COVER, JUST EAST OF QUANZ RD CULVERT 2: 30" IRON, 8" COVER, JUST WEST OF CR 92	1 & 2

APPENDIX J



BARON WINDS FACILITY

CULVERT LOCATION TABLE (CONTINUED)

		I		33171 233	ATION TABLE (CONTINUED)	POTENTIAL ACCESS
ROUTE/ROAD NAME	FROM	то	LENGTH (MI)	TOWN(S)	CULVERT INFORMATION (INCLUDES BRIDGE LOCATIONS)	ROUTE NUMBERS
EMO RD	NY 21	COHOCTON TOWN LINE	2.2	WAYLAND	CULVERT 1: UNKNOWN, O.2 MI EAST OF NY 21 CULVERT 2: 36" IRON, 6' COVER, 300' EAST OF CR 92 CULVERT 3: UNKNOWN, 0.4 MI EAST OF CR 92 CULVERT 4: UNKNOWN, 1 MI EAST OF CR 92	1 (FROM CR 92 TO T2/T7/T18/T13)
WALTER KURTZ RD	LANDER RD	NY 21	2.3	DANSVILLE/WAYLAND	CULVERT 1: 18" IRON, 1' COVER, JUST EAST OF LANDER RD CULVERT 2: 24" IRON, 5' COVER, 0.5 MI WEST OF WEARKLEY RD CULVERT 3: 48" IRON, 1' COVER, 800' WEST OF WEARKLEY RD CULVERT 4: 36" IRON, 1' COVER, 500' WEST OF WEARKLEY RD CULVERT 5: 18" CMP, 2' COVER, 0.4 MI WEST OF NY 21 CULVERT 5: 10" METAL, <1' COVER, 0.3 MI WEST OF NY 21	NONE
S CHURCH RD	CR 121	NY 21	1.4	WAYLAND	CULVERT 1: UNKNOWN, 3' COVER, 0.3 MI SOUTH OF CR 121 CULVERT 2: 18" IRON, 2' COVER, 0.5 MI SOUTH OF CR 121 CULVERT 3: 30" CMP, <1' COVER, 0.9 MI SOUTH OF CR 121 CULVERT 4: 72" IRON, 5' COVER, 0.2 MI EAST OF NY 21 CULVERT 5: 10' CMP ARCH, 4' COVER, 100' EAST OF NY 21	NONE
DYE RD	S CHURCH RD	CAMPBELL RD	0.7	WAYLAND	CULVERT 1: 18" IRON, 4' COVER, JUST EAST OF NEW GALEN RD CULVERT 2: UNKNOWN, 300' EAST OF NEW GALEN RD CULVERT 3: 18" IRON, 3' COVER, 800' EAST OF NEW GALEN RD	3 (FROM NEW GALEN RD TO CAMPBELL RD)
CAMPBELL RD	OIL WELL HOLLOW RD	DYE RD	0.7	WAYLAND/COHOCTON	CULVERT 1: 18" SICPP, 3' COVER, JUST NORTH OF DYE RD CULVERT 2: 24" SICPP, 4' COVER, 50' NORTH OF DYE RD	3
NEW GALEN RD	DYE RD	DAVIS RD	1.3	WAYLAND	CULVERT 1: 48" CMP, 15' COVER, 0.2 MI SOUTH OF DYE RD CULVERT 2: 24" SICPP, -1' COVER, 0.4 MI SOUTH OF DYE RD CULVERT 3: 30" SICPP, 2' COVER, 0.6 MI SOUTH OF DYE RD CULVERT 4: 5' CMP, 3' COVER, 0.7 MI SOUTH OF DYE RD CULVERT 5: 18" SICPP, 1' COVER, 0.7 MI SOUTH OF DYE RD CULVERT 6: 30" SICPP, 1' COVER, 0.8 MI SOUTH OF DYE RD CULVERT 6: 30" SICPP, 3' COVER, 0.8 MI SOUTH OF DYE RD CULVERT 7: 8" IRON, 1' COVER, 1.1 MI SOUTH OF DYE RD CULVERT 8: 30" IRON, 2' COVER, 1.2 MI SOUTH OF DYE RD	3
DEREVEES RD	BRONSON RD	NY 21	0.9	WAYLAND/FREMONT/DANSVILLE	CULVERT 1: 10' CONCRETE BOX, 5' COVER, 100' EAST OF BRONSON RD CULVERT 2: 36" IRON, <1' COVER, 0.4 MI WEST OF NY 21 CULVERT 3: 6' IRON, <1' OF COVER, 0.7 MI WEST OF NY 21 CULVERT 4: 30" IRON, <1' COVER, 100' WEST OF NY 21	2
REX RD	BROWN HILL RD	0.5 MILES NORTH	0.5	WAYLAND/COHOCTON	CULVERT: 30" CMP, 5' COVER, 200' NORTH OF BROWN HILL RD	3
LAKE HOLLOW RD	CR 121	POTTER HILL RD	1.2	соностом	CULVERT 1: 10' IRON, 2' COVER, 0.1 MI SOUTH OF CR 121 CULVERT 2: 18" CMP, 4' COVER, JUST SOUTH OF OIL WELL HOLLOW RD CULVERT 3: 18" IRON, 3' COVER, 0.5 MI NORTH OF POTTER HILL RD CULVERT 4: 18" CMP, 3' COVER, 0.3 MI NORTH OF POTTER HILL RD CULVERT 5: 10' IRON, 3' COVER, 300' NORTH OF POTTER HILL RD	3
POTTER HILL RD	LAKE HOLLOW RD	CAMPBELL RD	2.3	соностом	CULVERT 1: 24" CMP, 3' COVER, 1 MI NORTH OF WALTERS RD CULVERT 2: 18" CMP, 4' COVER, 0.8 MI NORTH OF WALTERS RD CULVERT 3: 36" CMP, 5' COVER, 0.7 MI NORTH OF WALTERS RD CULVERT 4: 36" IRON, 1' COVER, 0.6 MI NORTH OF WALTERS RD CULVERT 5: 30" IRON, 4' COVER, 0.3 MI NORTH OF WALTERS RD CULVERT 5: UNKNOWN, 0.1 MI NORTH OF WALTERS RD CULVERT 7: UNKNOWN, 0.2 MI EAST OF LOVELAND RD CULVERT 7: 1NKNOWN, 0.2 MI EAST OF CAMPBELL RD	3 (FROM LAKE HOLLOW RD TO WAGER RD)
WAGER RD	POTTER HILL RD	BROWN HILL RD	1.1	соностом	CULVERT 1: 24" IRON, 2' COVER, 100' SOUTH OF WALTERS RD CULVERT 2: 18" IRON, 1' COVER, 100' NORTH OF GRUBER RD CULVERT 3: 10' IRON, 2' COVER, JUST NORTH OF GRUBER RD CULVERT 4: 30" IRON, 3' COVER, JUST NORTH OF BROWN HILL RD	3
WALTERS RD	WAGER RD	DEAD END	1	соностом	CULVERT 1: 24" IRON, 1' COVER, 0.4 MI EAST OF WAGNER RD CULVERT 2: 36" SICPP, 3' COVER, 0.5 MI EAST OF WAGNER RD CULVERT 3: 18" SICPP, 3' COVER, 0.7 MI EAST OF WAGNER RD CULVERT 4: 18" SICPP, 2' COVER, 0.8 MI EAST OF WAGNER RD	3
BROWN HILL RD	NEW GALEN RD	WAGER RD	1.1	WAYLAND/COHOCTON	CULVERT 1: 24" IRON, 4' COVER, 100' EAST OF NEW GALEN RD CULVERT 2: 24" IRON, 2' COVER, 200' EAST OF NEW GALEN RD CULVERT 3: JUNKNOWN, 2' COVER, 1000' EAST OF NEW GALEN RD CULVERT 4: 30" IRON, -1' COVER, JUST EAST OF AKINS RD CULVERT 5: 24" IRON, 3' COVER, 500' EAST OF REX RD CULVERT 6: 30" IRON, 1' COVER, 500' EAST OF REX RD CULVERT 6: 30" IRON, 1' COVER, 1500' EAST OF REX RD CULVERT 7: 18" IRON, 4' COVER, 1500' EAST OF REX RD CULVERT 8: 24" IRON, 4' COVER, 2500' EAST OF REX RD	3

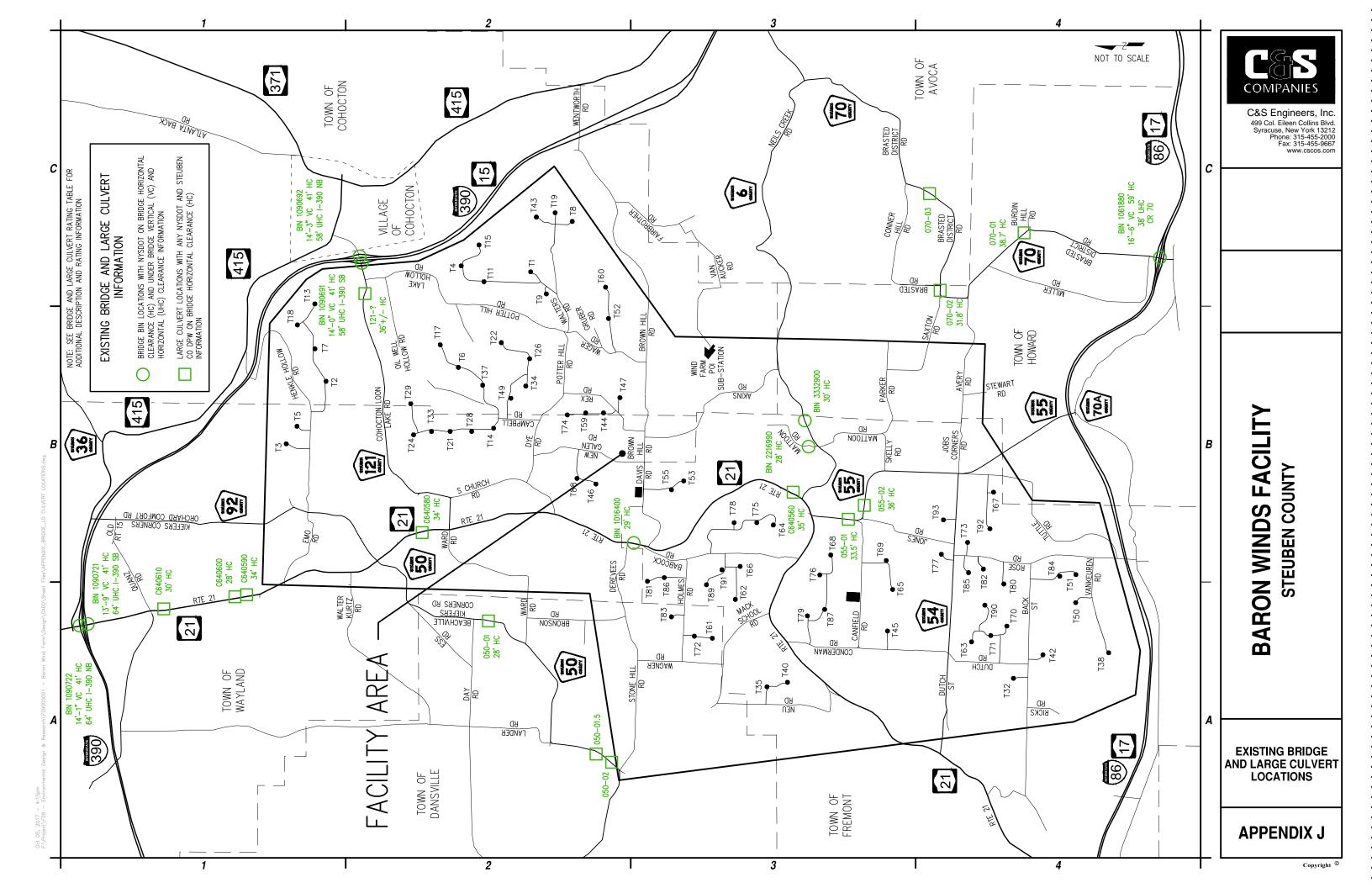
APPENDIX J



BARON WINDS FACILITY

CULVERT LOCATION TABLE (CONTINUED)

	CULVERT LOCATION TABLE (CONTINUED)									
ROUTE/ROAD NAME	FROM	то	LENGTH (MI)	TOWN(S)	CULVERT INFORMATION (INCLUDES BRIDGE LOCATIONS)	POTENTIAL ACCES ROUTE NUMBER				
DAVIS RD	NY 21	NEW GALEN RD	CULVERT 1: 5' CMP, 4' COVER, 200' EAST OF NY 21 CULVERT 2: 48" IRON, 3' COVER, 1200' EAST OF NY 21 NEW GALEN RD 1.3 FREMONT/WAYLAND CULVERT 3: 36" IRON, 2' COVER, 1200' EAST OF NY 21 CULVERT 4: 18" IRON, 2' COVER, 2800' EAST OF NY 21 CULVERT 5: 36" IRON, 2' COVER, JUST WEST OF NEW GALEN RD		3 (FROM NEW GALEN RD TO T55/T53)					
BRASTED RD	AVOCA TOWN LINE	CR 70	0.3	HOWARD	NO CULVERTS	NONE				
SAXTON RD	PARKER RD	CR 70	1.3	HOWARD	CULVERT: 48" IRON, LESS THAN 6" COVER, 1200' SOUTH OF PARKER RD	NONE				
PARKER RD	MATTOON RD	SAXTON RD	0.8	FREMONT/HOWARD	CULVERT: 24" IRON, 6" TO 3' COVER, JUST WEST OF SAXTON RD	NONE				
AVERY RD	FREMONT TOWN LINE	CR 70	1.4	HOWARD	CULVERT: 24" IRON, 8'+ COVER, 500' EAST OF STEWART RD	4				
MILLER RD	CR 70 (NORTH)	CR 70 (SOUTH)	2.3	HOWARD	NO CULVERTS	NONE				
BABCOCK RD	NY 21 (NORTH)	1.1 MILES SOUTH	1.1	FREMONT	CULVERT 1: 48" IRON, 3' COVER, 0.2 MI SOUTH OF NY 21 CULVERT 2: 24" IRON, <1' COVER, JUST SOUTH OF HOLMES RD CULVERT 3: 24" SICPP, 2' COVER, 400' SOUTH OF HOLMES RD	2 (FROM HOLM RD TO T62/T66/T91/T8				
MATTOON RD	SKELLY RD	DEAD END	1.1	FREMONT	CULVERT: 18" IRON, SOUTH OF CR 6	NONE				
SKELLY RD	CR 55	MATTOON RD	0.4	FREMONT	CULVERT: 24" PLASTIC, 3' COVER, 400' EAST OF CR 55	NONE				
JOBS CORNERS RD	CR 55	HOWARD TOWN LINE	0.6	FREMONT	CULVERT 1: 36" IRON, 6' COVER, 0.4 MI EAST OF CR 55	4				
JOBS CORNERS RD	CR 33	HOWARD TOWN LINE	0.6	PREIVIONI	CULVERT 2: 30" CMP, <6" COVER, 1300' EAST OF CR 55	4				
					CULVERT 1: 30" IRON, 2' COVER, 300' NORTH OF CANFIELD RD	2 (FROM NY 21				
CONDERMAN RD	NY 21	CR 54	1.8	FREMONT	CULVERT 2: 24" SICPP, 1' COVER, 300' SOUTH OF HUGINOR RD	T45)				
			+		CULVERT 3: 6' IRON, 3' COVER, 1700' NORTH OF CR 54	2 (FROM				
CANFIELD RD	CONDERMAN RD	CR 55	1.5	FREMONT	CULVERT: 48" IRON, <1' COVER, 1.1 MI EAST OF CONDERMAN RD	CONDERMAN RD T69/T65)				
JONES RD	CR 54	CR 55	1.1	FREMONT	CULVERT 1: 24" IRON, LESS THAN 1' COVER, 0.5 MI NORTH OF DUTCH RD CULVERT 2: 36" CMP, LESS THAN 1' COVER, 0.6 MI NORTH OF DUTCH RD CULVERT 3: 24" CMP, 4' COVER, 0.7 MI NORTH OF DUTCH RD CULVERT 4: 12" SICPP, 2' COVER, 0.9 MI NORTH OF DUTCH RD CULVERT 5: 12" CMP, 2' COVER, JUST SOUTH OF CR 55 CULVERT 6: 24" RCP, 1' COVER, JIAGONAL ACROSS JONES ROAD AND CR 55	NONE				
ROSE RD	CR 54	TUTTLE RD	1.8	FREMONT	NO CULVERTS	4 (FROM CR 54 T VANKEUREN RE				
BACK ST	ROSE RD	RICKS RD	1.6	FREMONT	CULVERT 1: 60" CMP, 2' COVER, 0.7 MI WEST OF ROSE RD CULVERT 2: 24" SICPP, 1' COVER, JUST EAST OF DUTCH RD	4 (FROM ROSE F TO T32)				
DUTCH RD	CR 54	BACK ST	0.9	FREMONT	CULVERT 3: 30" IRON, 3' COVER, JUST EAST OF RICKS RD CULVERT: 18" CMP (CRUSHED), 2' COVER, JUST SOUTH OF DUTCH ST	4 (FROM BACK ST T70/T71/T63/T9				
TUTTLE RD	CR 55	ROSE RD	2.4	FREMONT/HOWARD	CULVERT 1: 6" PIPE, 1' COVER, JUST SOUTH OF CR 55 CULVERT 2: 18" IRON, 1' COVER, 0.8 MI SOUTH OF CR 55 CULVERT 3: 18" IRON, -1' COVER, 1.5 MI SOUTH OF CR 55 CULVERT 4: 48" IRON, 1' COVER, 2.1 MI SOUTH OF CR 55	NONE				
VAN KEUREN RD	ROSE RD	DEAD END	0.6	FREMONT	NO CULVERTS	4				
NEU RD	MACK SCHOOL RD	0.7 MILES SOUTH	0.7	FREMONT/DANSVILLE	CULVERT 1: 24" PIPE, 1' COVER, JUST SOUTH OF MACK SCHOOL RD	2				
MACK SCHOOL RD	NY 21	NEU RD	1.3	FREMONT/DANSVILLE	CULVERT 2: 24"SICPP, 3' COVER, 0.4 MI SOUTH OF MACK SCHOOL RD CULVERT 1: 24" IRON, 1' COVER, 400' NORTH OF NY 21 CULVERT 2: 5' IRON, 1' COVER, 1500' NORTH OF NY 21 CULVERT 3: 18" CMP, 2' COVER, 2400' NORTH OF NY 21 CULVERT 4: 24" CMP, 2' COVER, 3100' NORTH OF NY 21 CULVERT 5: 48" IRON WITH CMP EXTENSION, 3' COVER, 3700' NORTH OF NY 21 CULVERT 6: 24" SICPP, 1' COVER, JUST WEST OF WAGNER RD	2				
HOLMES RD	WAGNER RD	BABCOCK RD	1.2	DANSVILLE/FREMONT	CULVERT: 36" CMP, 8' COVER, 0.4 MI NORTH OF BABCOCK RD	2				
WAGNER RD	STONE HILL RD	MACK SCHOOL RD	1	DANSVILLE	CULVERT: 18" CMP, 8' COVER, JUST NORTH OF MACK SCHOOL RD	2				
STONE HILL RD	CR 50	BRONSON RD	1.8	DANSVILLE	CULVERT 1: 30" CMP, 7' COVER, 600' EAST OF WAGNER RD CULVERT 2: 30" SICPP, <1' COVER, 0.6 MI WEST OF WAGNER RD CULVERT 3: 30" SICPP, <1' COVER, 1 MI WEST OF WAGNER RD CULVERT 4: 30" SICPP, <1' COVER, 100' EAST OF CR 50	POTENTIAL ALT ROUTE (FROM CR TO WAGNER RD) (FROM BRONSON TO WAGNER RD				
LANDER RD	WALTER KURTZ RD	CR 50	1.5	DANSVILLE	CULVERT 1: 10' IRON, 10' COVER, 0.2 MI SOUTH OF WALTER KURTZ RD CULVERT 2: 24" SICPP, 1' COVER, 0.5 MI SOUTH OF DAY RD CULVERT 3: 48" SICPP, 10' COVER, 0.6 MI SOUTH OF DAY RD CULVERT 4: 10' CMP, 15' COVER, 0.7 MI SOUTH OF DAY RD	NONE				



APPENDIX K

List of Airport Locations

Map of Airport Locations



APPENDIX K

C&S Engineers, Inc. 499 Col. Eileen Collins Blvd. Syracuse, New York 13212 Phone: 315-455-2000 Fax: 315-455-9667 www.cscos.com

LIST OF AIRPORTS

Steuben County Public and Private Airports, New York:

13 miles from southeastern project limit

Jolamtra Landing Area Airport - 23NY
Bath, New York
Facility Usage: Private

Herbert Townsend
5752 Wind Fall Rd
Bath, NY 14810
(607) 776-6088

16 miles from southern project limit

Randalls Roost Airport - NY34

Cameron, New York
Facility Usage: Private

Peter W. Randall
3264 Jackson Hill Rd
Jasper, NY 14855
(607) 792-3614

8 miles from southeastern project limit

Gaskins Hilltop Airport - 2NK1 Philip Gaskin
Canisteo, New York Rd 2

Facility Usage: Private

Canisteo, NY 14823
(607) 698-4876

0.4 miles from eastern project limit

D C Helicopters Heliport - NK10

Cohocton, New York

Facility Usage: Private

Dennis Clarcq
Rd 1, Jones Rd
Cohocton, NY 14826
(716) 384-5333

18.6 miles from eastern project limit

Loucks Airport - 25NK

Hammondsport, New York

Fig. 12.4 J. J. P.: 4.40

Gary D. Loucks
8961 Ridge Rd
Hammondsport, NY 14840

Facility Usage: Private (607) 292-6286

3.4 miles from western project limit

Hornell Muni Airport - 4G6

Hornell, New York
Facility Usage: Public

City Hallpo Box 627
Hornell, NY 14843
(607) 324-7421

Yates County Public and Private Airports, New York:

18.8 miles from northeast project limit

Middlesex Valley Airport – 4N2

Middlesex, New York
Facility Usage: Public

Robert Mincer
1078 Lincoln Ave
Middlesex, NY 14507
(585) 554-4024



C&S Engineers, Inc. 499 Col. Eileen Collins Blvd. Syracuse, New York 13212 Phone: 315-455-2000 Fax: 315-455-9667 www.cscos.com

LIST OF AIRPORTS (Continued)

Livingston County Public and Private Airports, New York:

8.7 miles from northern project limit

Dansville Muni Airport - DSV

Dansville, New York

Facility Usage: Public

Town Of North Dansville
Town Hall Clara Barton St
Dansville, NY 14437
(585) 335-2330

17.4 miles from northern project limit

Seven Gullies Airport - 0NK3

Groveland, New York
Facility Usage: Private

William Barbara Koschara
Rfd 1, 6781 Groveland Sta Rd
Mount Morris, NY 14510
(716) 243-1118

20 miles from northern project limit

Merrimac Farms Airport - 68NY

Mount Morris, New York

Facility Usage: Private

Merrimac Farms Inc.

4000 E Groveland Rd

Mount Morris, NY 14510

(716) 243-3989

20.8 miles from northern project limit

Scotts Sky Ranch Airport - NY70

Mount Morris, New York
Facility Usage: Private

Bryan Scott Kunkle
7899 Mt Morris-Nunda Rd
Mount Morris, NY 14510
(585) 468-3437

18.9 miles from northern project limit

Tuscarora Plateau Airport – 3NK6 Carlton L Perry

Tuscarora, New York

Facility Usage: Private

2620 Creveling Road, RD 2
Mount Morris, NY 14510
(585) 468-5766

Ontario County Public and Private Airports, New York:

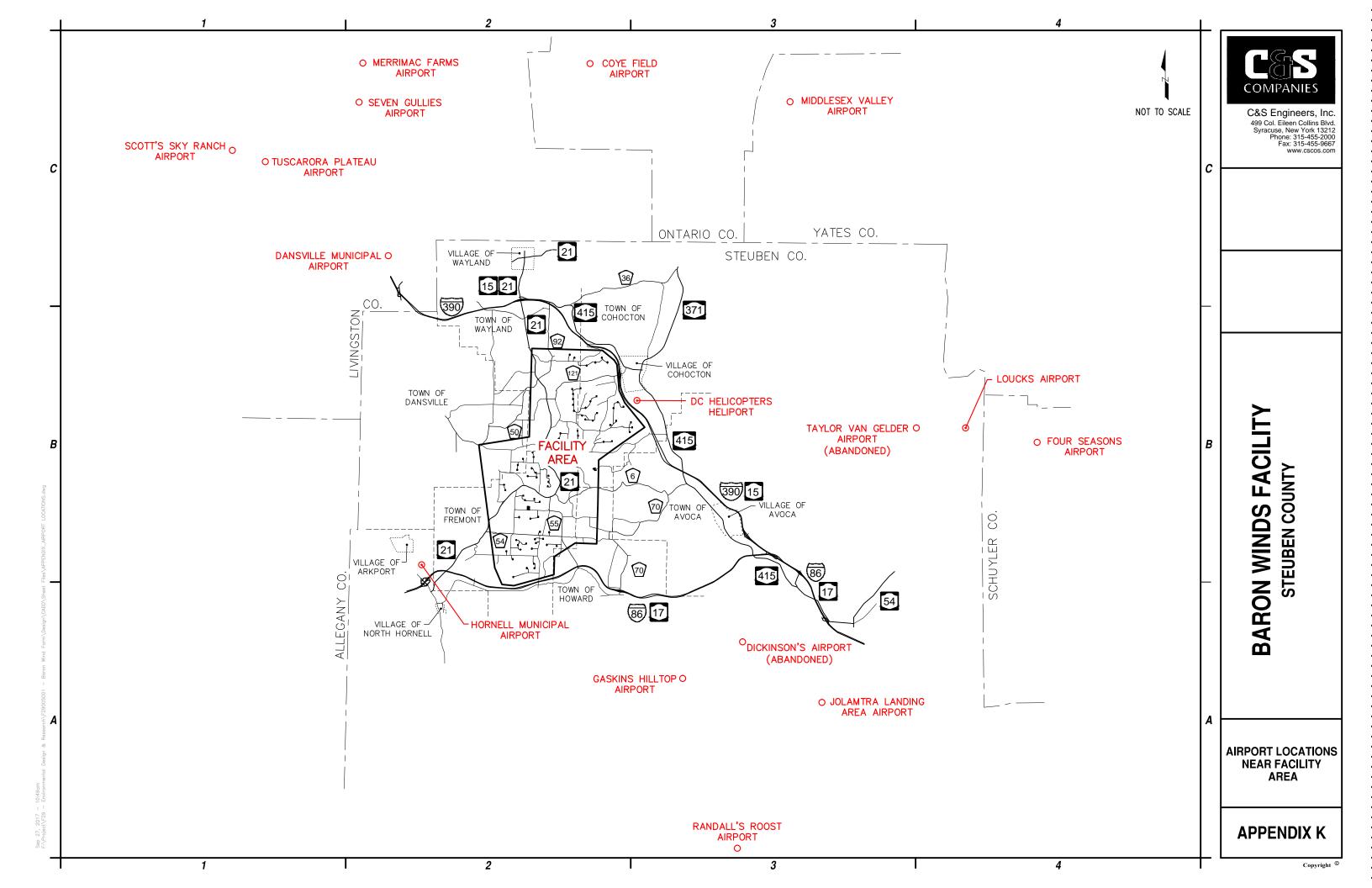
16.3 miles from northern project limit

Coye Field Airport - 30NY

Canadice, New York

Facility Usage: Private

Wendell F. Coye
5632 Middle Road
Hemlock, NY 14466
(716) 367-2573



APPENDIX L

Roadway Rating Photos



I-390 SOUTHBOUND OFF-RAMP AT NY ROUTE 21



NY 21 AT I-390 LOOKING NORTH



CULVERT



LOOKING SOUTH



INTERSECTION OF NY 21 AND QUANZ RD LOOKING SOUTH



BRIDGE #C640610



BRIDGE #C640600



BRIDGE #C640590



LOOKING SOUTH



CULVERT



INTERSECTION OF NY 21 AND EMO RD LOOKING SOUTH



INTERSECTION OF NY 21 AND WALTER KURTZ RD LOOKING NORTH



INTERSECTION OF NY 21, CR 92, AND CR 50 LOOKING SOUTH



LOOKING SOUTH



BRIDGE #C640580



INTERSECTION OF NY 21 AND DAVIS RD LOOKING NORTHEAST



INTERSECTION OF NY 21 AND CR 121 LOOKING NORTH



INTERSECTION OF NY 21 AND CHURCH RD LOOKING NORTH



INTERSECTION OF NY 21 AND DEREVEES RD LOOKING SOUTH



BRIDGE #1016400



INTERSECTION OF NY 21 AND BABCOCK RD LOOKING SOUTH



CULVERT



CULVERT



LOOKING SOUTH



FAILURE OF A CULVERT CONCRETE END SECTION DUE TO WASHOUT



LOOKING SOUTH



CULVERT



LOOKING SOUTH



LOOKING SOUTH



BRIDGE #C640560



LOOKING SOUTH FROM THE INTERSECTION OF NY 21 AND NEILS CREEK RD



INTERSECTION OF NY 21 AND CR 55 LOOKING WEST



INTERSECTION OF NY 21 AND MACK SCHOOL RD LOOKING WEST



INTERSECTION OF NY 21 AND CONDERMAN RD LOOKING WEST

STEUBEN COUNTY ROUTE 50 (CR 50) FROM NY 21 TO STONE HILL RD



CULVERT



CULVERT

STEUBEN COUNTY ROUTE 50 (CR 50) FROM NY 21 TO STONE HILL RD (CONTINUED)



LOOKING EAST



LOOKING NORTH



INTERSECTION OF CR 50 AND LANDER RD LOOKING WEST



LOW WIRES AT THE INTERSECTION OF CR 50 AND LANDER RD LOOKING NORTH



LOOKING NORTH



LOOKING NORTH

STEUBEN COUNTY ROUTE 50 (CR 50) FROM NY 21 TO STONE HILL RD (CONTINUED)



CULVERT



INTERSECTION OF CR 50 AND STONE HILL RD LOOKING SOUTH

STEUBEN COUNTY ROUTE 54 (CR 54) FROM CR 55 TO CONDERMAN RD



LOOKING EAST



INTERSECTION OF CR 54 AND JONES RD LOOKING WEST



INTERSECTION OF CR 54 AND ROSE RD LOOKING EAST



CULVERT

STEUBEN COUNTY ROUTE 54 (CR 54) FROM CR 55 TO CONDERMAN RD (CONTINUED)



TYPICAL SHOULDER CONDITION



INTERSECTION OF CR 54 AND CONDERMAN LOOKING WEST

STEUBEN COUNTY ROUTE 55 (CR 55) FROM STEWART RD TO NY 21



INTERSECTION OF CR 55 AND TUTTLE RD LOOKING SOUTH



CULVERT



INTERSECTION OF CR 55 AND CR 54 LOOKING NORTH



INTERSECTION OF CR 55 AND SKELLY RD LOOKING SOUTH

STEUBEN COUNTY ROUTE 55 (CR 55) FROM STEWART RD TO NY 21 (CONTINUED)



LOOKING EAST



INTERSECTION OF CR 55 AND NY 21 LOOKING NORTH

STEUBEN COUNTY ROUTE 70 (CR 70) FROM I-86 TO AVOCA TOWN LINE



LOOKING SOUTH



INTERSECTION OF CR 70 AND WELCH RD LOOKING NORTH



INTERSECTION OF CR 70 AND BRASTED RD LOOKING EAST



INTERSECTION OF CR 70 AND SAXTON RD LOOKING NORTH

STEUBEN COUNTY ROUTE 70 (CR 70) FROM I-86 TO AVOCA TOWN LINE (CONTINUED)



INTERSECTION OF CR 70 AND AVERY LOOKING WEST



CULVERT



SOUTHERN INTERSECTION OF CR 70 AND MILLER RD LOOKING NORTH



NORTHERN INTERSECTION OF CR 70 AND MILLER RD LOOKING WEST



INTERSECTION OF CR 70 AND BURDIN HILL RD LOOKING NORTH



INTERSECTION OF CR 70 AND I-86 LOOKING SOUTH

STEUBEN COUNTY ROUTE 92 (CR 92) FROM OLD ROUTE 15 TO NY 21



INTERSECTION OF CR 92 AND OLD ROUTE 15 LOOKING NORTH



CULVERT



LOOKING SOUTH



LOOKING SOUTH



SUNOCO PETROLEUM PIPELINE



CULVERTS

STEUBEN COUNTY ROUTE 92 (CR 92) FROM OLD ROUTE 15 TO NY 21 (CONTINUED)



INTERSECTION OF CR 92 AND HENRY DRUM RD LOOKING SOUTH



INTERSECTION OF CR 92 AND EMO RD LOOKING SOUTH



REDUCED SPEEDS SOUTH OF EMO RD



LOOKING SOUTH



LOW WIRES NEAR THE LAF-A-LOT INTERSECTION



CULVERT

STEUBEN COUNTY ROUTE 121 (CR 121) FROM I-390 TO NY 21



I-390 SOUTHBOUND OFF-RAMP AT CR 121



CR 121 AT I-390 LOOKING EAST



INTERSECTION OF CR 121 AND LAKE HOLLOW RD LOOKING WEST



CULVERT



LOOKING WEST



LOOKING WEST

STEUBEN COUNTY ROUTE 121 (CR 121) FROM I-390 TO NY 21 (CONTINUED)



LOW WIRES NEAR REYNOLDS CREEK RD



WINDING CURVES COMBINE WITH STEEP SLOPES BETWEEN REYNOLDS CREEK RD AND EAST LAKE RD



LOOKING SOUTH



SLOPE WARNINGS
BETWEEN REYNOLDS CREEK RD AND EAST LAKE RD



INTERSECTION OF CR 121 AND E LAKE RD LOOKING SOUTH



INTERSECTION OF CR 121 AND S CHURCH RD LOOKING NORTH

AVERY ROAD FROM CR 70 TO JOBS CORNERS RD



LOOKING EAST



SEASONAL ROAD, NOT PLOWED IN WINTER



LOOKING WEST



LOOKING WEST



CULVERT



INTERSECTION OF AVERY RD AND STEWART RD LOOKING EAST

BABCOCK ROAD FROM NY 21 TO 0.5 MILES SOUTH OF HOLMES RD



SEASONAL ROAD, NOT PLOWED IN WINTER



LOOKING SOUTH



INTERSECTION OF BABCOCK RD AND HOLMES RD LOOKING SOUTH



CULVERT

BACK STREET FROM ROSE RD TO RICKS RD



SEASONAL ROAD, NOT PLOWED IN WINTER



LOOKING EAST

BACK STREET FROM ROSE RD TO RICKS RD (CONTINUED)



SEGMENT WITH STEEP GRADE WITH DEEP DITCHES 0.2 MILES EAST OF DUTCH RD



LOOKING WEST



CULVERT



INTERSECTION OF BACK ST AND DUTCH RD LOOKING WEST



LOOKING WEST



INTERSECTION OF BACK ST AND RICKS RD LOOKING WEST

BRASTED ROAD FROM CR 70 TO AVOCA TOWN LINE



LOOKING NORTH



LOW WIRES BETWEEN CR 70 AND CONNOR HILL RD

BROWN HILL ROAD FROM NEW GALEN RD TO WAGER RD



CULVERT



CULVERT



INTERSECTION OF BROWN HILL RD AND REX RD



LOOKING WEST

BROWN HILL ROAD FROM NEW GALEN RD TO WAGER RD (CONTINUED)



LOOKING EAST



INTERSECTION OF BROWN HILL RD AND WAGER RD LOOKING EAST

CAMPBELL ROAD FROM DYE RD TO 0.7 MILES NORTH OF DYE RD



LOOKING SOUTH



LOOKING NORTH

CANFIELD ROAD FROM CONDERMAN RD TO CR 55



LOOKING WEST



STEEP SHARP CURVE NEXT TO CEMETERY NEAR CR 55

CANFIELD ROAD FROM CONDERMAN RD TO CR 55 (CONTINUED)



LOOKING WEST CULVERT



CONDERMAN ROAD FROM NY 21 TO CR 54



LOOKING SOUTH



INTERSECTION OF CONDERMAN RD AND CANFIELD RD LOOKING SOUTH



SEASONAL ROAD
SOUTH OF CANFIELD RD NOT PLOWED IN WINTER



LOOKING SOUTH

CONDERMAN ROAD FROM NY 21 TO CR 54 (CONTINUED)



LOOKING SOUTH



CULVERT



LOOKING NORTH

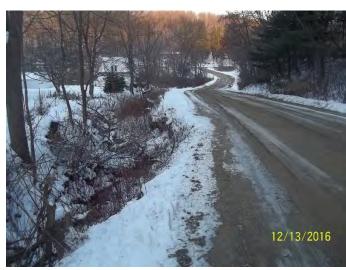


LOOKING SOUTH

DAVIS ROAD FROM NY 21 TO NEW GALEN RD



CULVERT



LOOKING EAST

DAVIS ROAD FROM NY 21 TO NEW GALEN RD (CONTINUED)



LOOKING EAST



INTERSECTION OF DAVIS RD AND NEW GALEN RD LOOKING EAST

DEREVEES ROAD FROM NY 21 TO STONE HILL RD



LOOKING WEST



CULVERT



LOOKING WEST



CULVERT

DUTCH ROAD FROM CR 54 TO BACK ST



LOOKING NORTH



LOOKING SOUTH

DYE ROAD FROM S CHURCH RD TO CAMPBELL RD



INTERSECTION OF DYE RD AND S CHURCH RD LOOKING NORTH



LOOKING EAST



INTERSECTION OF DYE RD AND NEW GALEN RD LOOKING EAST



CULVERT

EMO ROAD FROM NY 21 TO HENKLE HOLLOW RD



SHARP BLIND CURVES ON STEEP GRADES BETWEEN NY 21 AND CR 92



LOOKING EAST



CULVERT



LOOKING EAST



LOOKING EAST



LOOKING EAST

HOLMES ROAD FROM WAGNER RD TO BABCOCK RD



RECENTLY REPLACED IRON CULVERT



LOOKING EAST



NARROW SEGMENT OVER CULVERT JUST EAST OF DANVILLE/FREMONT TOWN LINE



LOOKING EAST

JOBS CORNERS ROAD FROM AVERY RD TO CR 55



LOOKING EAST



LOOKING WEST

JOBS CORNERS ROAD FROM AVERY RD TO CR 55 (CONTINUED)





CULVERT

JONES ROAD FROM CR 54 TO CR 55



LOOKING NORTH



CULVERT



LOOKING NORTH



INTERSECTION OF JONES RD AND CR 55 LOOKING NORTH

LAKE HOLLOW ROAD FROM CR 121 TO POTTER HILL RD



INTERSECTION WITH OILWELL HOLLOW RD LOOKING NORTH



LOOKING SOUTH



LOOKING NORTH



LOOKING SOUTH



CULVERT



SHARP CURVE OVER CULVERT WITH RAILING

LANDER ROAD FROM CR 50 TO WALTER KURTZ RD



LOOKING NORTH



CULVERT



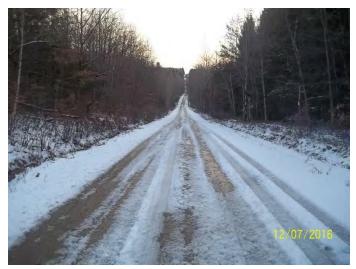
SEASONAL ROAD
NORTH OF DAY RD NOT PLOWED IN WINTER



CULVERT



INTERSECTION OF LANDER RD AND KURTZ HOLLOW RD LOOKING SOUTH



LOOKING NORTH

MACK SCHOOL ROAD FROM NY 21 TO NEU RD



LOOKING NORTH



CULVERT



CULVERT



INTERSECTION OF MACK SCHOOL RD AND WAGNER RD LOOKING WEST



LOOKING EAST



INTERSECTION OF MACK SCHOOL RD AND NEU RD LOOKING WEST

MATTOON ROAD FROM SKELLY RD TO DEAD END



INTERSECTION OF MATTOON RD AND SKELLY RD LOOKING SOUTH



LOOKING SOUTH



CULVERT



EASTERN INTERSECTION OF MATTOON RD AND CR 6 LOOKING SOUTHWEST



LOOKING NORTH



BRIDGE #2216990

MILLER ROAD FROM SOUTHERN INTERSECTION OF CR 70 TO NORTHERN INTERSECTION OF CR 70



LOOKING WEST



LOOKING NORTH



INTERSECTION MILLER RD AND WELCH RD LOOKING SOUTH



LOOKING NORTH

NEU ROAD FROM MACK SCHOOL RD TO 0.7 MILES SOUTH OF MACK SCHOOL RD



SEASONAL ROAD, NOT PLOWED IN WINTER



LOOKING SOUTH

NEU ROAD FROM MACK SCHOOL RD TO 0.7 MILES SOUTH OF MACK SCHOOL RD (CONTINUED)





LOOKING SOUTH AT END OF SEGMENT

NEW GALEN ROAD FROM DAVIS RD TO DYE RD



LOOKING SOUTH





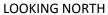
CULVERT



CULVERT

NEW GALEN ROAD FROM DAVIS RD TO DYE RD (CONTINUED)







LOOKING SOUTH

OLD ROUTE 15 FROM QUANZ RD TO CR 92



LOOKING EAST



LOOKING WEST

PARKER ROAD FROM SKELLY RD TO SAXTON RD



SEASONAL ROAD, NOT PLOWED IN WINTER



INTERSECTION OF PARKER RD AND SAXTON RD LOOKING WEST

POTTER HILL ROAD FOM CAMPBELL RD TO LAKE HOLLOW RD



INTERSECTION OF POTTER HILL RD AND CAMPBELL RD LOOKING WEST



LOOKING EAST



INTERSECTION OF POTTER HILL RD AND REX RD LOOKING WEST



LOOKING EAST



INTERSECTION OF POTTER HILL RD AND WAGNER RD LOOKING SOUTH



LOOKING NORTH

POTTER HILL ROAD FOM CAMPBELL RD TO LAKE HOLLOW RD (CONTINUED)



CULVERT



LOOKING NORTH



LOOKING NORTH



INTERSECTION WITH LAKE HOLLOW RD LOOKING NORTH

QUANZ ROAD FROM NY 21 TO OLD ROUTE 15



LOOKING WEST



SEVERAL LOCATIONS OF LOW WIRES NEAR NY 21

QUANZ ROAD FROM NY 21 TO OLD ROUTE 15 (CONTINUED)



LOOKING NORTH



CULVERT



LOOKING NORTH



INTERSECTION OF QUANZ RD AND OLD ROUTE 15 LOOKING NORTH

REX ROAD FROM BROWN HILL RD TO 0.5 MILES NORTH OF BROWN HILL RD



SEASONAL ROAD, NOT PLOWED IN WINTER



CULVERT

REX ROAD FROM BROWN HILL RD TO 0.5 MILES NORTH OF BROWN HILL RD (CONTINUED)







LOOKING NORTHEAST

S CHURCH ROAD FROM CR 121 TO NY 21



LOOKING SOUTH



CULVERT



LOOKING SOUTH



SHARP CURVE OVER CULVERT WITH CONCRETE RAILING NEAR NY 21

SAXTON ROAD FROM CR 70 TO PARKER RD





LOOKING SOUTH CULVERT

SKELLY ROAD FROM MATTOON RD TO CR 55



SEASONAL ROAD, NOT PLOWED IN WINTER



CULVERT

STONE HILL ROAD FROM CR 50 TO BRONSON RD



LOOKING WEST



CULVERT

STONE HILL ROAD FROM CR 50 TO BRONSON RD (CONTINUED)



LOOKING WEST



LOOKING WEST



INTERSECTION OF STONE HILL RD AND WAGNER RD LOOKING WEST



INTERSECTION OF STONE HILL RD AND DEREVEES RD LOOKING EAST

TUTTLE ROAD FROM CR 55 TO ROSE RD



SEASONAL ROAD, NOT PLOWED IN WINTER



LOOKING SOUTH

TUTTLE ROAD FROM CR 55 TO ROSE RD (CONTINUED)



LOOKING SOUTH



LOOKING SOUTH



INTERSECTION WITH MYRTLES DR (PRIVATE DRIVE) LOOKING SOUTH



CULVERT

VAN KEUREN ROAD FROM ROSE RD TO DEAD END



LOOKING WEST



LOOKING WEST

WAGER ROAD FROM POTTER HILL RD TO BROWN HILL RD



INTERSECTION OF WAGER RD AND WALTERS RD LOOKING SOUTH



LOOKING SOUTH



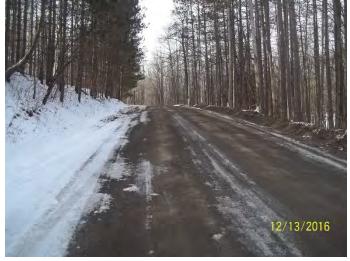
INTERSECTION OF WAGER RD AND GRUBER RD LOOKING SOUTH



LOW WIRES AT GRUBER RD INTERSECTION



CULVERT AT GRUBER RD INTERSECTION



LOOKING SOUTH

WAGER ROAD FROM POTTER HILL RD TO BROWN HILL RD (CONTINUED)





LOOKING NORTH CULVER

WAGNER ROAD FROM STONE HILL RD TO MACK SCHOOL RD



TYPICAL ROAD CONDITION WITH FREQUENT POTHOLES



LOOKING SOUTH



INTERSECTION OF WAGNER RD AND HOLMES RD LOOKING SOUTH



SEASONAL ROAD, NOT PLOWED IN WINTER

WALTER KURTZ ROAD FROM NY 21 TO LANDER RD



LOOKING WEST





LOOKING WEST



SEASONAL ROAD IN TOWN OF DANSVILLE SEGMENT NOT PLOWED IN WINTER



CULVERT



INTERSECTION OF WALTER KURTZ RD AND LANDER RD LOOKING WEST

WALTERS ROAD FROM POTTER HILL RD TO DEAD END



LOOKING EAST



LOOKING WEST



LOOKING WEST



LOOKING EAST