



Adelaide Wind Project

Community Liaison Committee
October 23, 2014

Adelaide Wind Project Community Liaison Committee

Agenda

- **Safety Moment** (Holly Davidson)
- **Project Team Review**
- **Contact Information**
- **Project Map and Transportation Plan**
- **Project Schedule**
- **Construction Details**

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Safety Moment - Winter driving and black ice

- Black ice is a thin layer of transparent ice that forms when the temperature is around the freezing point.
- It sometimes makes the road look slightly wet.
- Black ice can sneak up on you, so pay attention when the temperature gets close to freezing.



Opportunity

Anticipate

- Black ice can be the cause of many winter driving accidents.
- The best way to avoid an accident is to anticipate the road conditions and adapt to changing conditions.
- Clues to anticipate black ice:
 - Ice build-up on my mirror arms, antenna, or the top corners of my windshield
 - When the spray from tires on vehicles in front stops
- Always watch for black ice, whether driving down a highway or through a parking lot.



Action

What to do

- Allow additional time
 - Slow down
 - Allow for extra time to safely travel to your destination
- Don't use cruise control in slippery conditions
- Drive at a safe following distance
 - The distance traveled from the point you perceive a need to stop, to the point where the vehicle actually comes to a halt.
 - The three factors involved in stopping distance:
 1. Perception time
 2. Reaction time
 3. Braking distance
- Safety kit
 - Ensure that you have a winter safety kit in your vehicle
- Eye on the weather
 - Know what conditions to expect
- Tires
 - Ensure you have adequate traction
 - Good and matching all season/winter tires or studded tires

<input checked="" type="checkbox"/> shovel	<input checked="" type="checkbox"/> gas-line anti-freeze
<input checked="" type="checkbox"/> scraper	<input checked="" type="checkbox"/> extra windshield washer fluid
<input checked="" type="checkbox"/> snow brush	<input checked="" type="checkbox"/> flashlight and spare batteries
<input checked="" type="checkbox"/> traction aids	<input checked="" type="checkbox"/> jumper cables
<input checked="" type="checkbox"/> a bag of sand	<input checked="" type="checkbox"/> To keep you warm
<input checked="" type="checkbox"/> To keep you warm	<input checked="" type="checkbox"/> To be seen...
⋮ blanket	⋮ safety emergency flares or other light source (electric lamps, reflectors, etc.)
⋮ gloves and mittens	⋮ warning flag (to be placed several meters behind the vehicle)
⋮ matches and candles	⋮ carbone monoxyde detector
⋮ boots	
⋮ scarf and hat	

Recommendations

Tires are important!

- Winter tires
 - Have special tread compounds that use one or more of the following features to deliver improved traction.
 - "Soft stud" tread fibers "bite" like metal studs yet are quiet and do not harm the road.
 - Special compounds retain their flexibility even in the coldest temperatures. A more flexible tread surface equals more traction and control.
 - Silica-based, micro pore compounds (or comparable technology) are used to bite through the water film and increase snow and ice traction.



- All-season tires
 - Have very different compounds:
 - Compounds are "averaged" to deliver better wear and good traction in a wide range of conditions, but the trade-off is a decrease in traction below 45 degrees Fahrenheit. This is the point where all-season tire compounds begin to harden and lose traction.
 - These tires must use denser compounds to deliver better wear. Micro pore or comparable technology is not suitable for these designs.
 - For the same reason no soft stud material is built into these tires.



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Project Team:

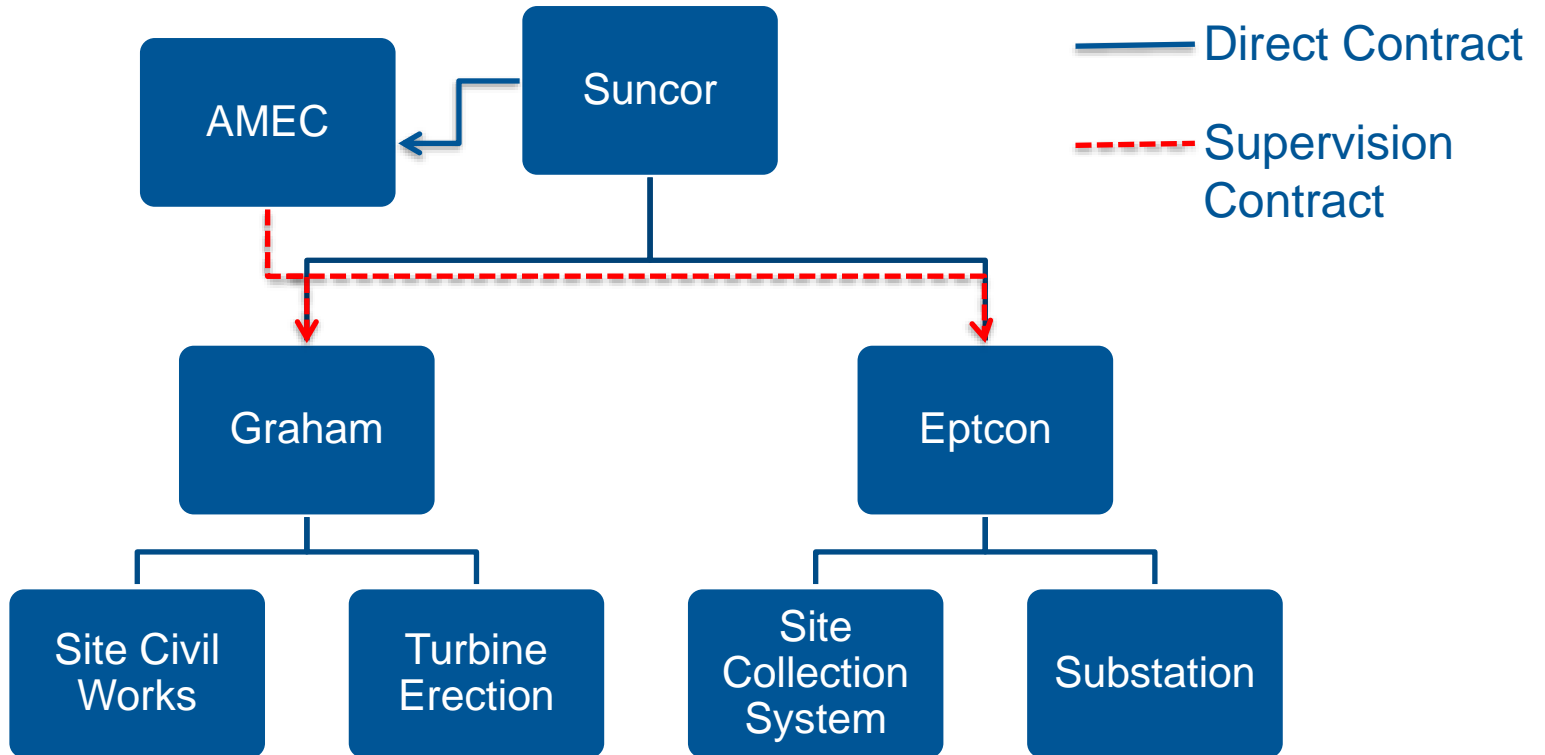
- **Suncor**
 - **Development Team** is responsible for site development, permitting and regulatory compliance
 - **Major Projects Group** is responsible for managing detailed engineering and construction
 - **Operations Group** is responsible for long term operations of facility
- **AMEC**
 - AMEC has completed detailed engineering and procurement of Owner-supplied equipment and some bulk materials
 - Is providing Construction Management on site
 - Manage and supervise all subcontractors
 - Ensure facility is built according to design
 - Responsible for Site EH&S

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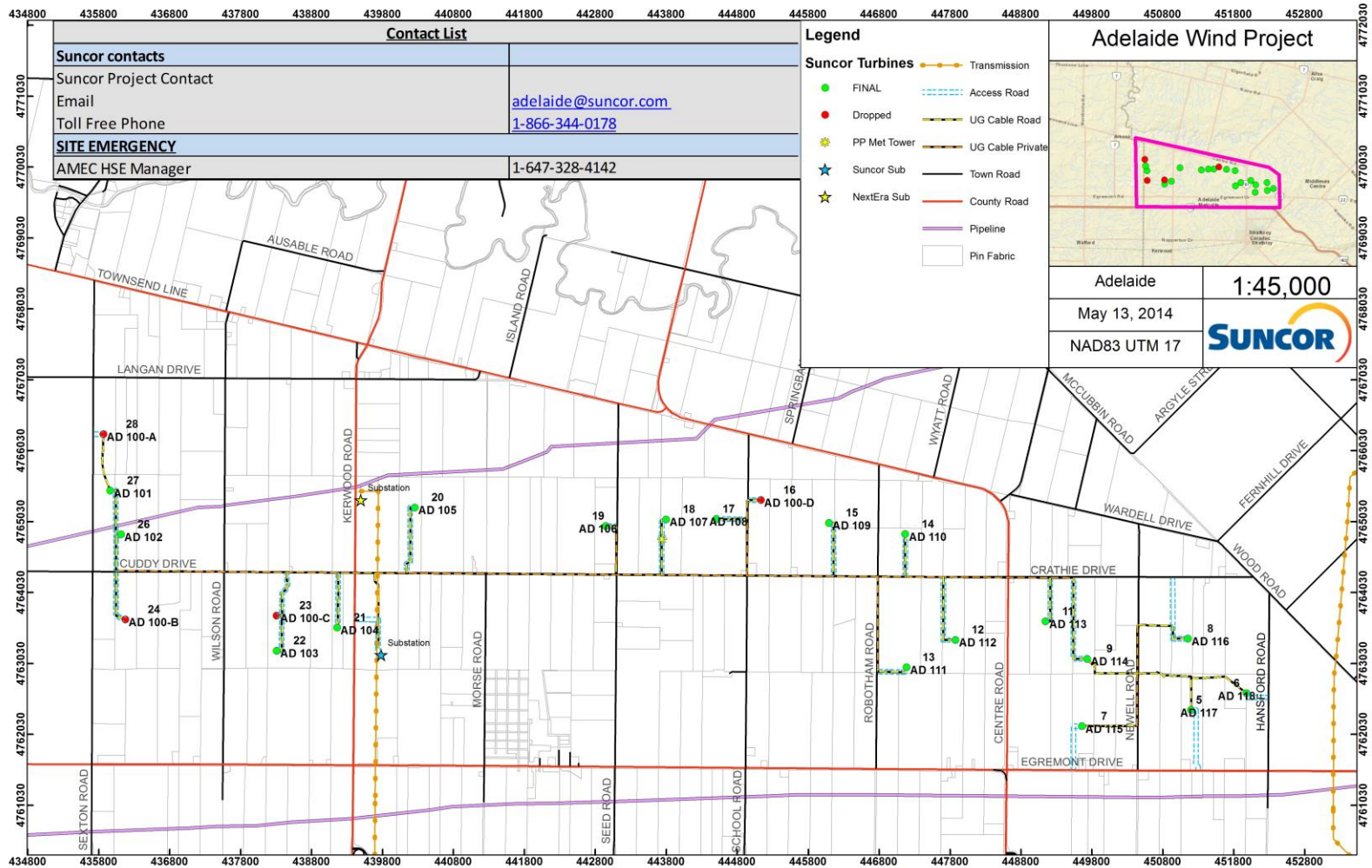
On Site Contact Information

Contact List	
Suncor Contact	
Onsite Staff Phone: Email:	Jason Weir - Construction Coordinator (226) 626-3517 jweir@suncor.com
Suncor Project Contact Toll Free Phone: Email:	 (866) 344-0178 adelaide@suncor.com
AMEC Contact	
Engineering Procurement and Construction Manager Phone: Mobile: Email:	Tullio Russo - Construction Manager (905) 815-6269 (289) 952-2441 tullio.russo@amec.com
AMEC HSE Manager Phone:	Wayne Trackberry (647) 328-4142

Adelaide Wind Project – Construction Arrangement



Adelaide Wind Project Community Liaison Committee - Site Map



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Project Schedule

Adelaide Wind Power Project (18 Siemens Turbines 40MW)- Summary Schedule-Status Date:06Aug14

Description	2013						2014						2015									
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	
Key Milestones																						
Contract Award	◆	25Jul13																				
SPIM Gate 3 Approved					◆	18Nov13																
REA Appeal Window Closes					◆	23Dec13																
Earliest Construction Start Date / Site Access											◆	04Jun14										
Collection System Completion																	◆	04Dec14				
Substation Completion																	◆	10Dec14				
Backfeed Power Available from HONI																	◆	10Dec14				
WTG Mechanical Completion																	◆	01Dec14				
Substantial Completion/Project Commissioning Completion																	◆	24Dec14				
OPA COD/ISD																	◆	24Dec14				
Domestic Content Report																	◆	06Jan15				

- All civil work (access roads, foundations, etc.,) is approx. 100% complete
- Turbine component deliveries will be completed by end of Oct
- Turbine installation is underway with target completion by mid-Nov
- Collection system is approx 70% complete and target completion by mid-Nov

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Project Schedule



Civil Works



Electrical Works



Turbine Supply



Main Component Transportation

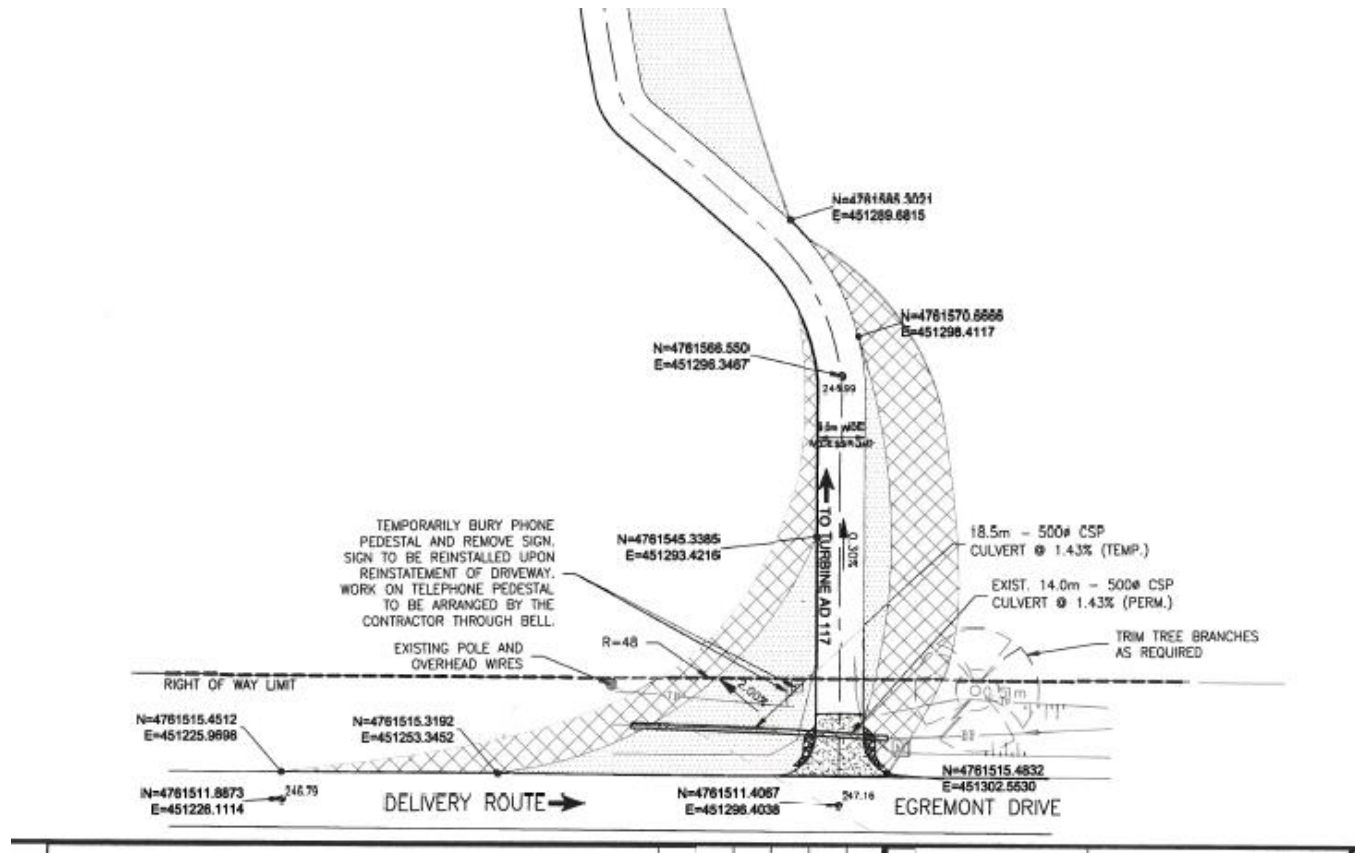


Turbine Installation

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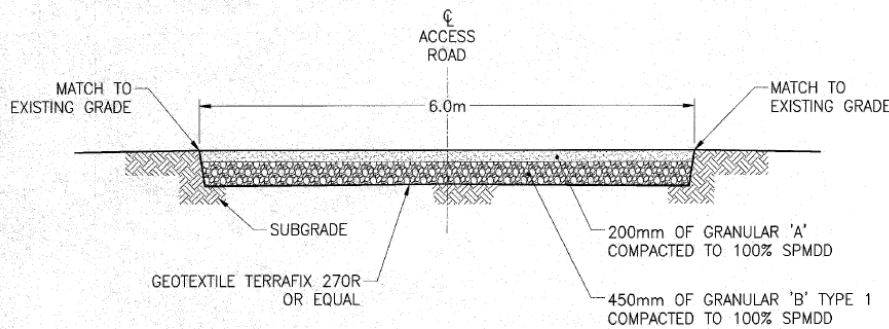
Construction Activities

- First few activities were creating entrances off of road right of ways



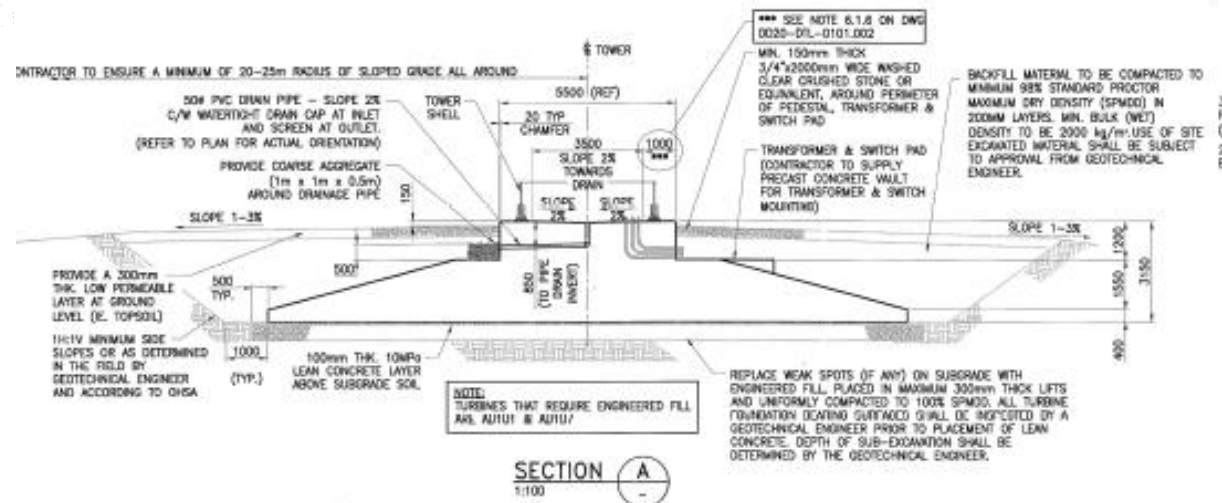
Construction Activities

- Access Roads and turbine foundations were next



TYPICAL PERMANENT ACCESS ROAD CROSS SECTION

SCALE: N.T.S.



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Access Road

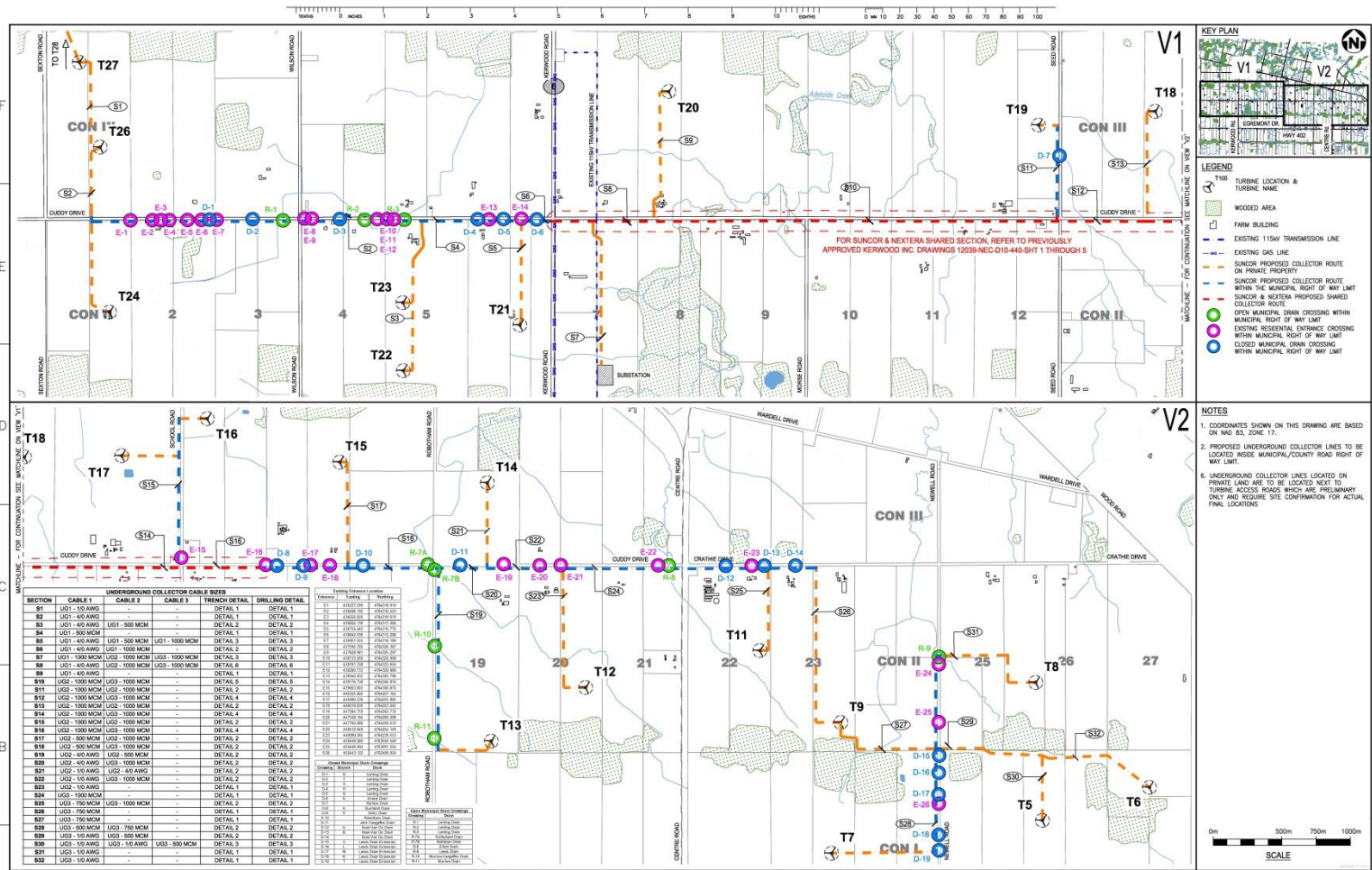


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Turbine Foundation



Collection System Installation



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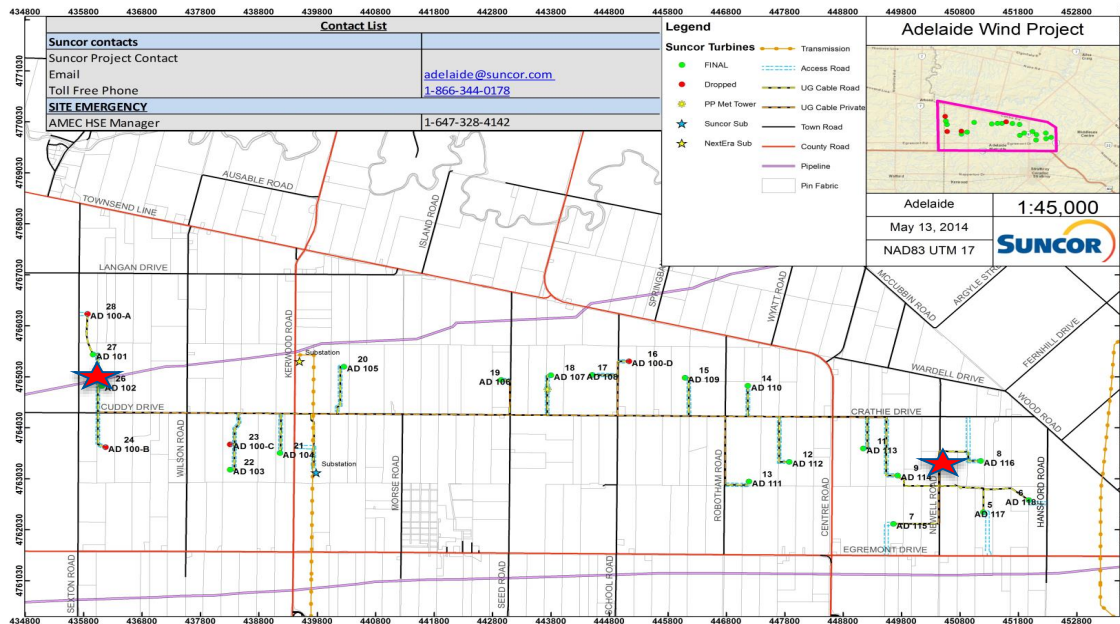
Collection System Installation



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Pipeline Crossings

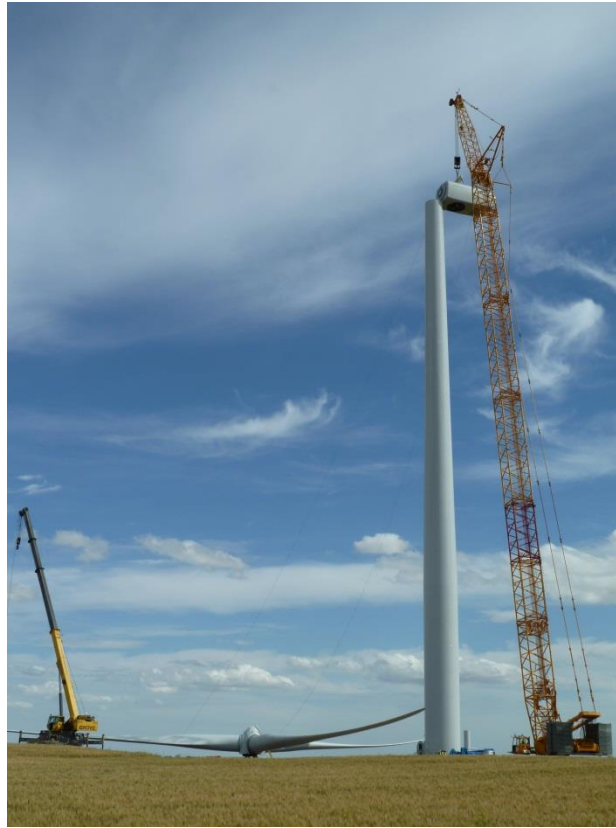
- The project had 2 crossings of pipelines (Enbridge gas and Huron Water Supply)
- Permission was obtained to drill pipes under the crossings, this occurred during collection system install.



Collection System Crossing

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Turbine Installation



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Turbine Transportation



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Turbine Installation



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Site Reclamation



