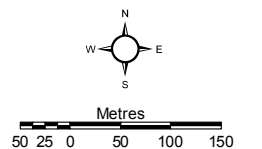


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UTM Zone 17N, NAD 83  
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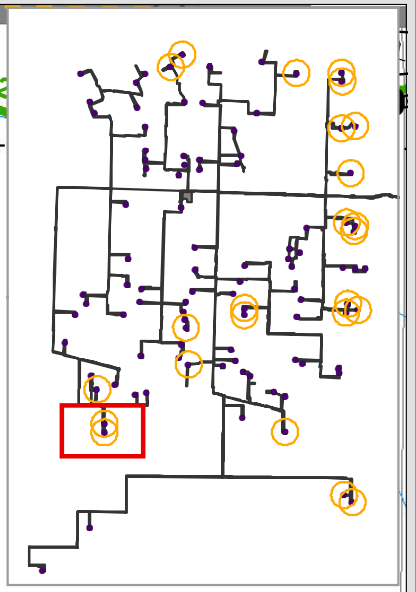
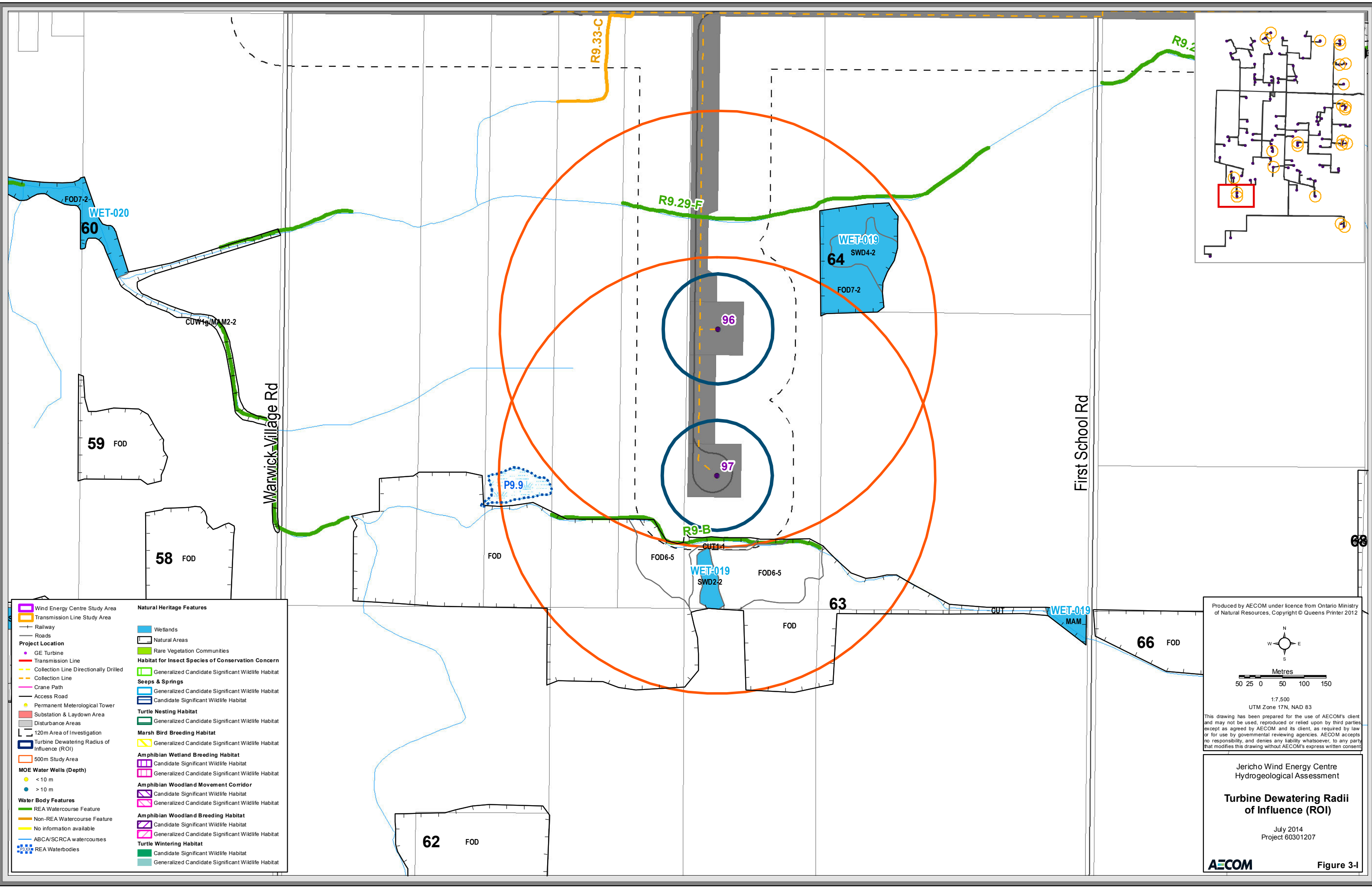
Jericho Wind Energy Centre  
Hydrogeological Assessment  
**Turbine Dewatering Radii of Influence (ROI)**

July 2014  
Project 60301207

AECOM

Figure 3-H

Path: I:\GIS\External\GIS\spatial\MXD\Report\MXD\NHA\_Mapping\Jericho\60155032\_Jericho\_Dewatering\_20140721.mxd  
Date: 7/22/2014 User: cam.cheast



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| <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid purple; margin-right: 5px;"></span> Wind Energy Centre Study Area</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid orange; margin-right: 5px;"></span> Transmission Line Study Area</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Railway</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Roads</li> <li><b>Project Location</b></li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid purple; margin-right: 5px;"></span> GE Turbine</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid red; margin-right: 5px;"></span> Transmission Line</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px dashed yellow; 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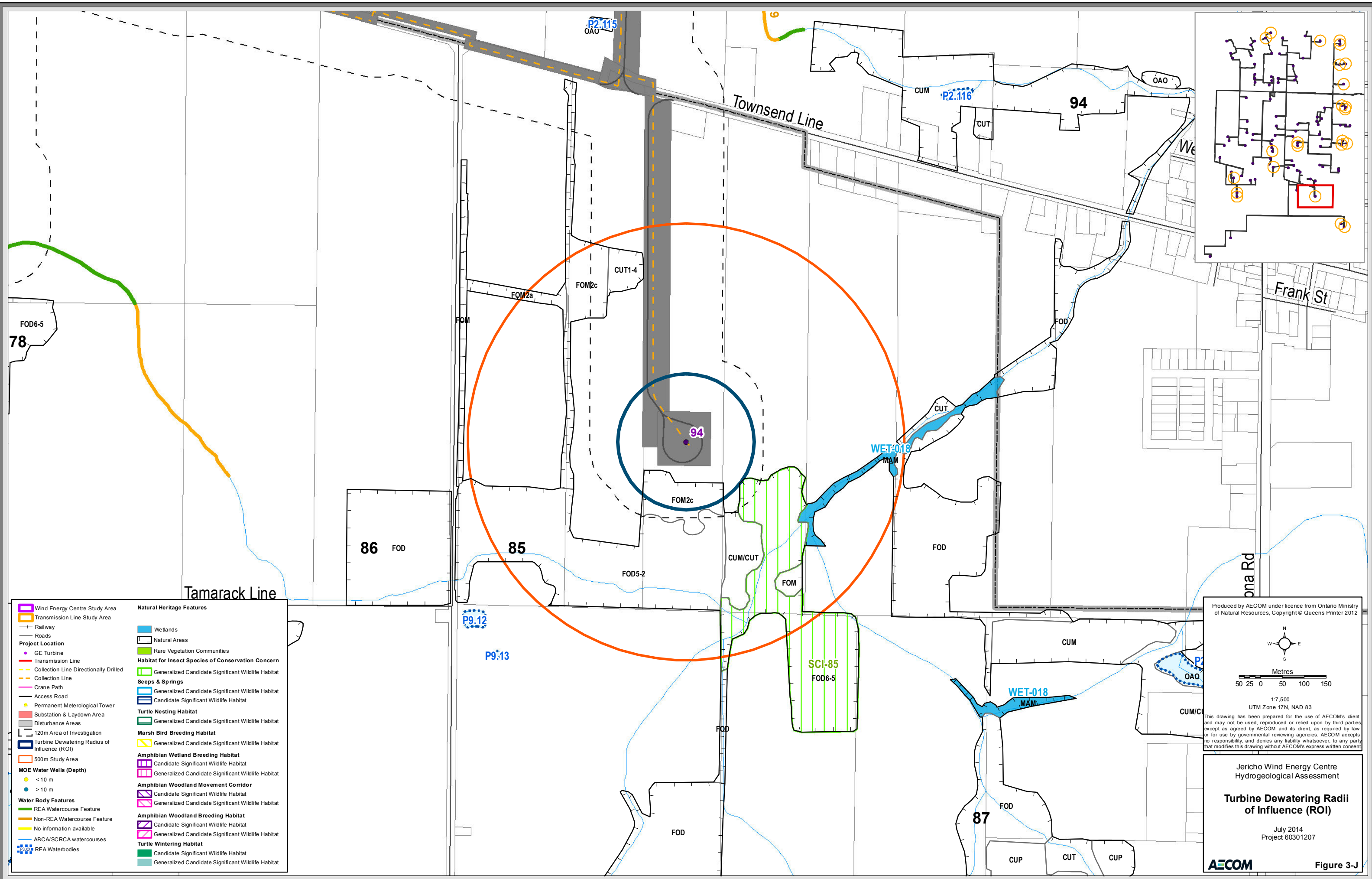
Jericho Wind Energy Centre  
Hydrogeological Assessment

**Turbine Dewatering Radii of Influence (ROI)**

July 2014  
Project 60301207

**Figure 3-I**





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| <ul style="list-style-type: none"> <li><span style="border: 1px solid purple; display: inline-block; width: 10px; height: 10px;"></span> Wind Energy Centre Study Area</li> <li><span style="border: 1px solid orange; display: inline-block; width: 10px; height: 10px;"></span> Transmission Line Study Area</li> <li><span style="border-bottom: 1px solid black; width: 10px; display: inline-block;"></span> Railway</li> <li><span style="border-bottom: 1px solid black; width: 10px; display: inline-block;"></span> Roads</li> <li><b>Project Location</b></li> <li><span style="color: purple;">●</span> GE Turbine</li> <li><span style="color: red;">—</span> Transmission Line</li> <li><span style="color: yellow;">—</span> Collection Line Directionally Drilled</li> <li><span style="color: orange;">—</span> Collection Line</li> <li><span style="color: pink;">—</span> Crane Path</li> <li><span style="color: black;">—</span> Access Road</li> <li><span style="color: yellow;">●</span> Permanent Meteorological Tower</li> <li><span style="background-color: grey; 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border: 1px solid blue; display: inline-block; width: 10px; height: 10px;"></span> Wetlands</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Natural Areas</li> <li><span style="background-color: lightgreen; border: 1px solid green; display: inline-block; width: 10px; height: 10px;"></span> Rare Vegetation Communities</li> <li><b>Habitat for Insect Species of Conservation Concern</b></li> <li><span style="background-color: lightgreen; border: 1px dashed green; display: inline-block; width: 10px; height: 10px;"></span> Generalized Candidate Significant Wildlife Habitat</li> <li><b>Seeps &amp; Springs</b></li> <li><span style="border: 1px solid blue; display: inline-block; width: 10px; height: 10px;"></span> Generalized Candidate Significant Wildlife Habitat</li> <li><span style="border: 1px solid orange; display: inline-block; width: 10px; height: 10px;"></span> Candidate Significant Wildlife Habitat</li> <li><b>Turtle Nesting Habitat</b></li> <li><span style="border: 1px solid green; 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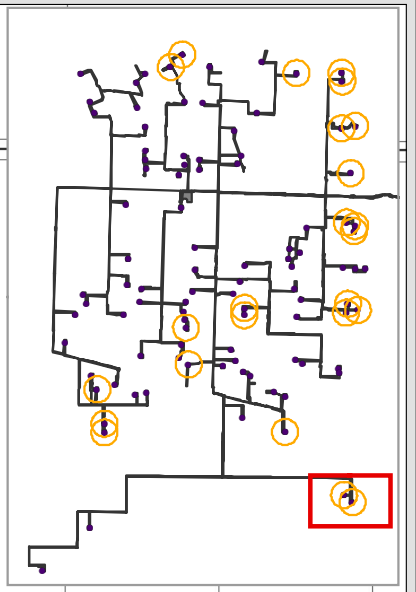
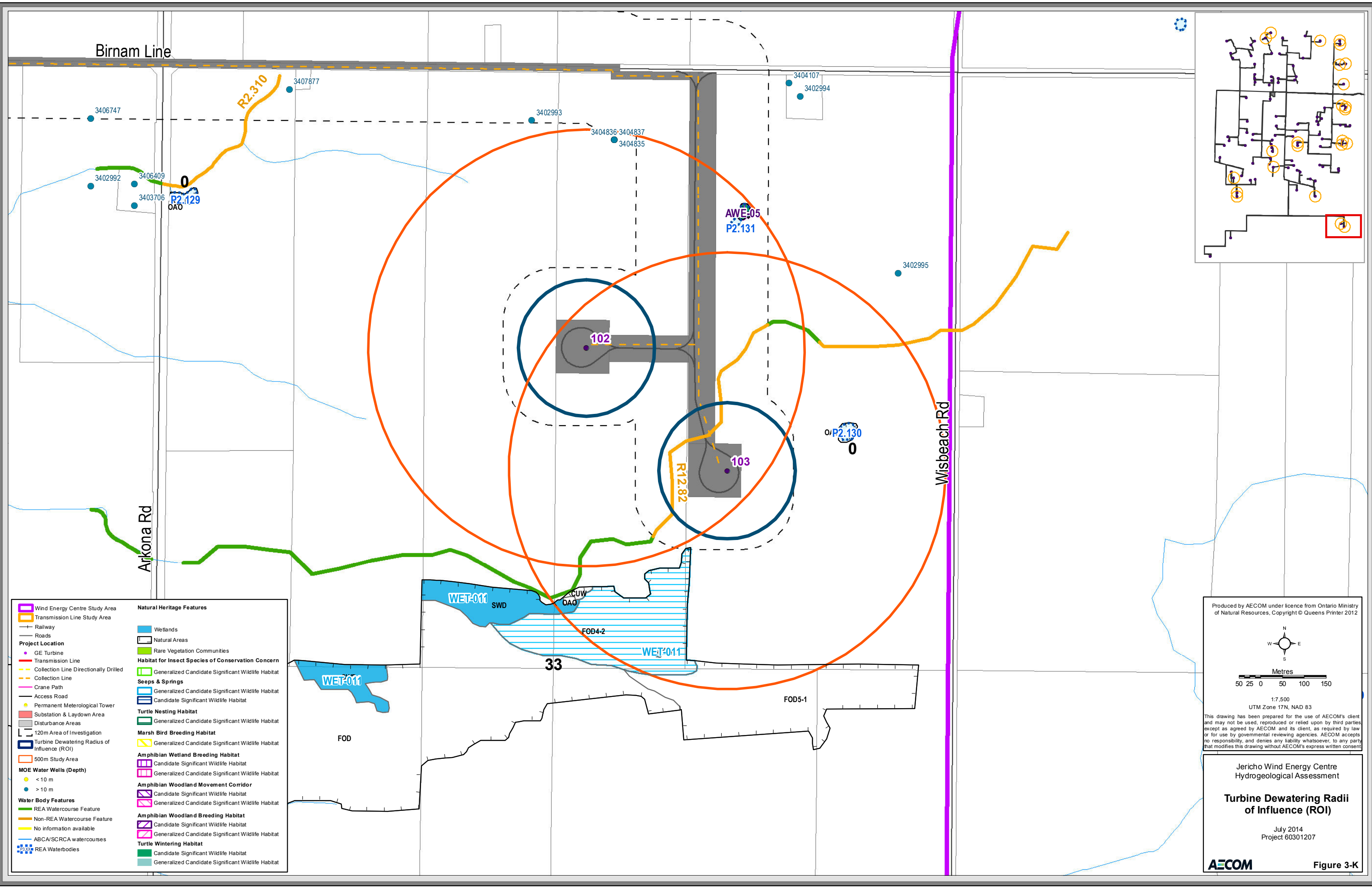
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Jericho Wind Energy Centre  
Hydrogeological Assessment

**Turbine Dewatering Radii of Influence (ROI)**

July 2014  
Project 60301207

**AECOM** Figure 3-J



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| <ul style="list-style-type: none"> <li><span style="border: 1px solid purple; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Wind Energy Centre Study Area</li> <li><span style="border: 1px solid orange; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Transmission Line Study Area</li> <li><span style="border-bottom: 1px solid black; width: 10px; margin-right: 5px;"></span> Railway</li> <li><span style="border-bottom: 1px solid black; width: 10px; margin-right: 5px;"></span> Roads</li> <li><b>Project Location</b></li> <li><span style="color: purple; font-size: 10px; margin-right: 5px;">●</span> GE Turbine</li> <li><span style="border-bottom: 1px solid red; width: 10px; margin-right: 5px;"></span> Transmission Line</li> <li><span style="border-bottom: 1px dashed yellow; width: 10px; margin-right: 5px;"></span> Collection Line Directionally Drilled</li> <li><span style="border-bottom: 1px dashed orange; width: 10px; margin-right: 5px;"></span> Collection Line</li> <li><span style="border-bottom: 1px solid pink; 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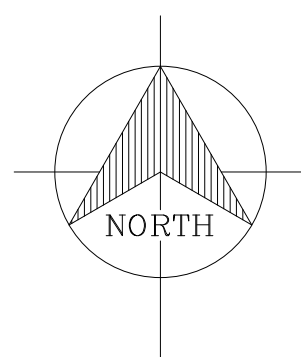
**Turbine Dewatering Radii of Influence (ROI)**

July 2014  
Project 60301207

**Figure 3-K**

# Appendix A

## Design Drawing for Turbine Foundation

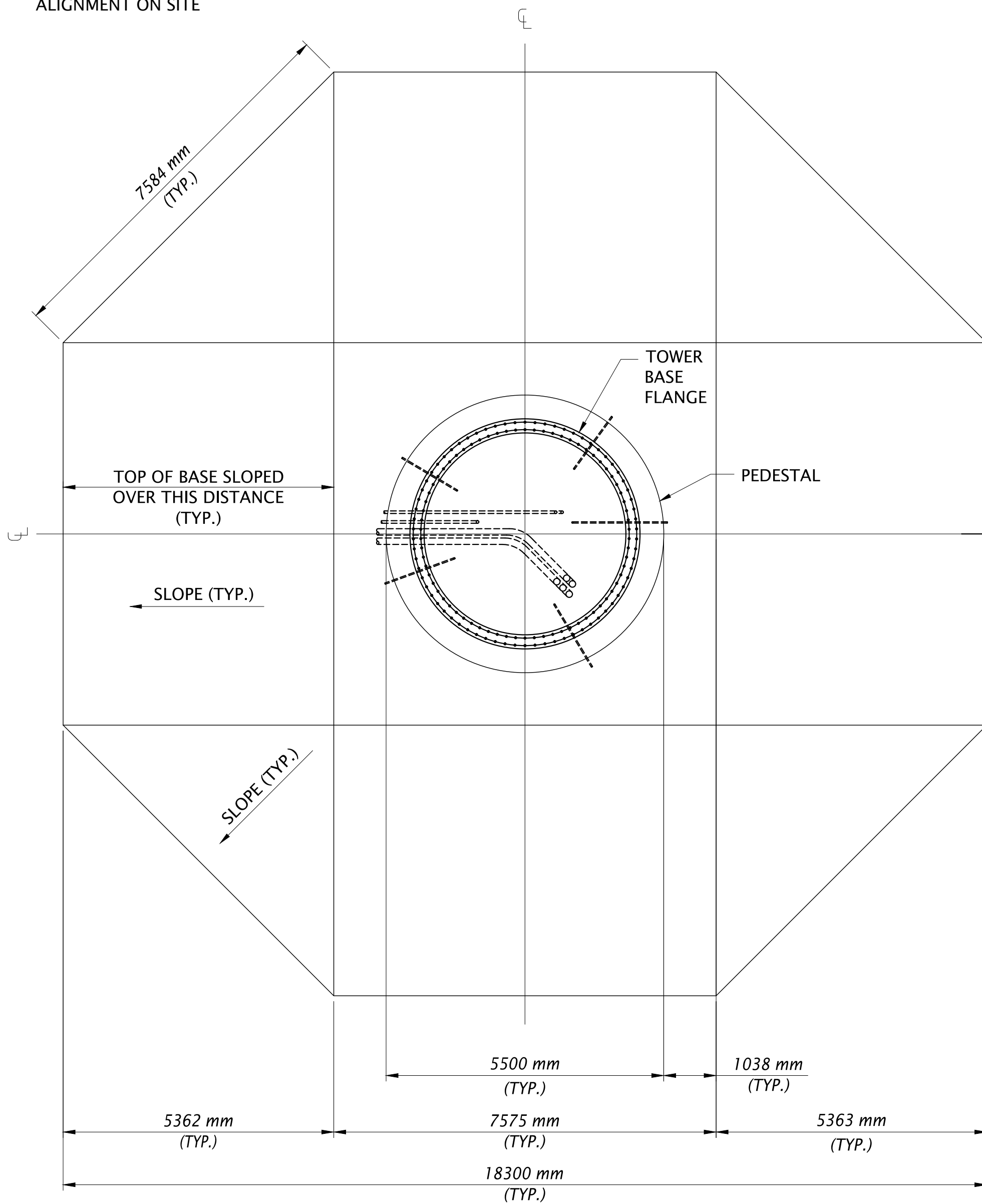


**PLAN NORTH**

REFER TO GENERAL ARRANGEMENT DRAWINGS FOR FOUNDATION ALIGNMENT ON SITE

H = HORIZONTAL DIMENSION MEASURED IN PLAN VIEW  
D = FIELD DIMENSION MEASURED ALONG SLOPE IN REINFORCEMENT

	H	D
A	264mm	271mm
B	130mm	134mm

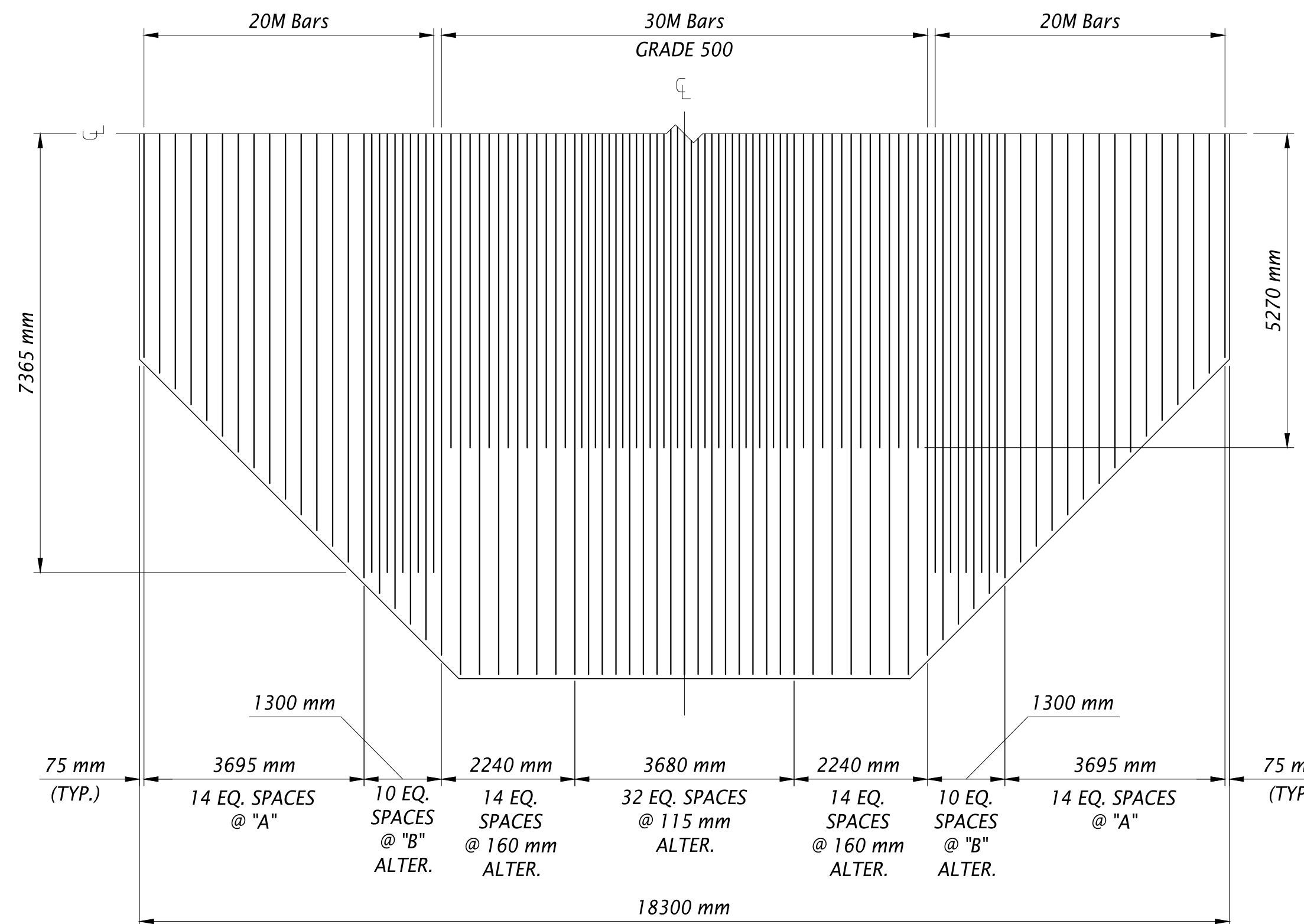


**FOUNDATION PLAN**

SCALE: 1:75

NOTES:

- ELECTRICAL CONDUIT SIZE, NUMBER, AND LOCATIONS MUST BE PROVIDED BY THE ELECTRICAL ENGINEER. FOR FINAL PLACEMENT AND REQUIREMENTS SEE ELECTRICAL DRAWINGS.

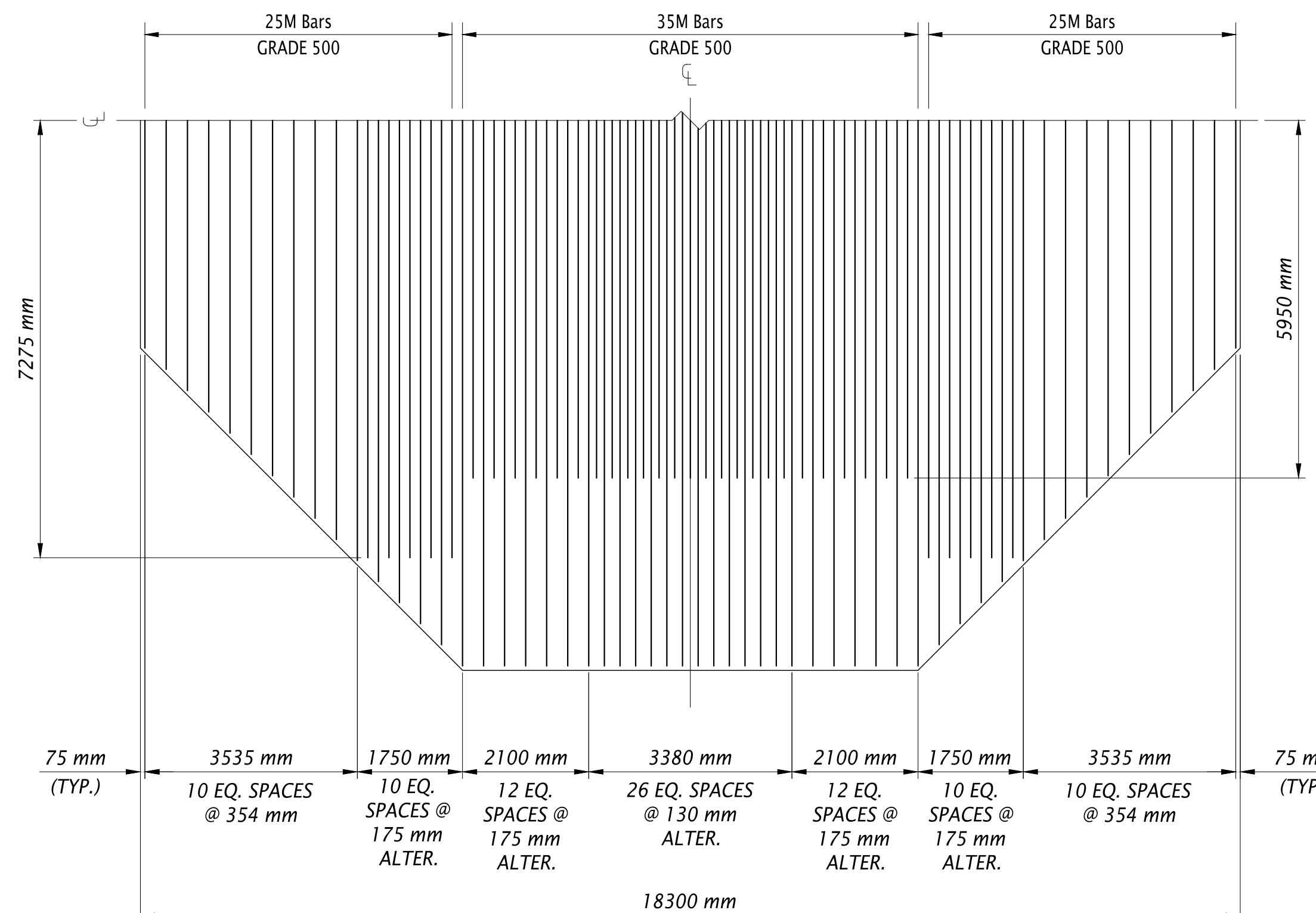


**BASE TOP REINFORCING PLAN**

SCALE: 1:75

NOTES:

- REINFORCEMENT LAYOUT AND SPACING SHOWN IN ONE DIRECTION ONLY FOR CLARITY. FINAL REINFORCEMENT SHALL BE PLACED EACH WAY.

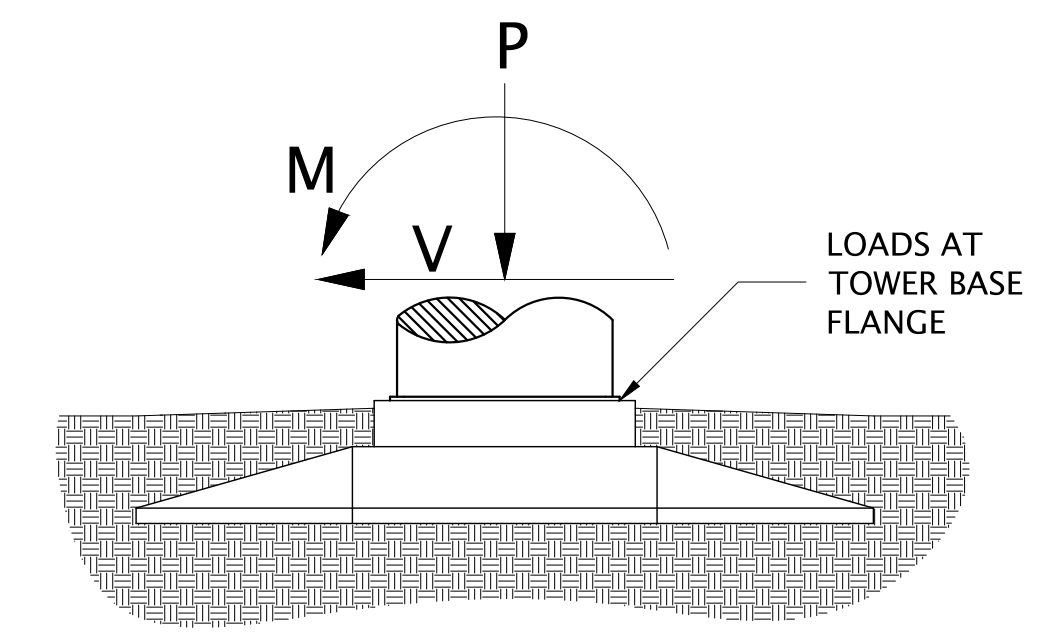


**BASE BOTTOM REINFORCING PLAN**

SCALE: 1:75

NOTES:

- REINFORCEMENT LAYOUT AND SPACING SHOWN IN ONE DIRECTION ONLY FOR CLARITY. FINAL REINFORCEMENT SHALL BE PLACED EACH WAY.



**FOUNDATION DESIGN LOADS**

SCALE: N.T.S.

**DESIGN CRITERIA**

- FOUNDATION DESIGN LOADS**  
EXTREME CHARACTERISTIC LOADS (UNFACTORED) LOCATED AT THE BOTTOM OF THE TOWER BASE FLANGE:  
P = 2,271 kN  
V = 671 kN  
M = 51,147 kN-m
- ESTIMATED STRUCTURAL MATERIAL QUANTITIES**
  - BASE CONCRETE: 280.1 m<sup>3</sup> (MIN.)
  - PEDESTAL CONCRETE: 28.5 m<sup>3</sup> (MIN.)
  - LEAN CONCRETE: 11.1 m<sup>3</sup> (MIN.)
  - STEEL REINFORCEMENT (GRADE 400): 10,000 Kg
  - STEEL REINFORCEMENT (GRADE 500): 27,500 Kg

NOTE: ESTIMATED MATERIAL QUANTITIES DO NOT INCLUDE ANY MATERIAL REQUIRED FOR INSTALLATION PURPOSES (STANDEES, DOBIES, ETC.)
- STRUCTURAL MATERIAL PROPERTIES**
  - BASE CONCRETE STRENGTH (28-DAY): 35 MPa
  - PEDESTAL CONCRETE STRENGTH (28-DAY): 35 MPa
  - LEAN CONCRETE STRENGTH (3-DAY): 14 MPa
  - GROUT STRENGTH (28-DAY): 60 MPa
  - STEEL REINFORCEMENT (CAN/CSA-G30.18): GRADE 400 (U.N.O.)
  - EMBEDMENT PLATE (ASTM A36): 1-1/4" (32 mm), GRADE 36 (250 MPa)
  - ANCHOR BOLTS (ASTM A615): #10 GRADE 75
  - CONCRETE DENSITY RANGE: 22.8 TO 23.6 kN/m<sup>3</sup>
- GEOTECHNICAL CONDITIONS**
  - MIN. REQUIRED NET SLS BEARING CAPACITY: 105 Kpa
  - MIN. REQUIRED NET ULS BEARING CAPACITY: 170 Kpa
  - MIN. ALLOWABLE DISTANCE FROM TOP OF FINISHED GRADE TO GROUNDWATER: ≥ 0.5 m
  - MIN. COMPACTED DRY BACKFILL DENSITY: 14.9 kN/m<sup>3</sup>
  - MAX. COMPACTED WET BACKFILL DENSITY: 22.0 kN/m<sup>3</sup>

**ABBREVIATIONS**

B.O.	BOTTOM OF CLEAR COVER	N.T.S.	NOT TO SCALE
C.C.	CLEAR COVER	O.C.	ON CENTER
CL.	CENTER LINE	O.D.	OUTSIDE DIAMETER
CLR.	CLEAR	R	RADIUS
EL.	ELEVATION	SP.	SPACES
EQ.	EQUAL	T&B	TOP AND BOTTOM
E.W.	EACH WAY	T.O.C.	TOP OF CONCRETE
I.D.	INSIDE DIAMETER	TYP.	TYPICAL
MIN.	MINIMUM	U.N.O.	UNLESS NOTED OTHERWISE
MAX.	MAXIMUM	W/	WITH
NOM.	NOMINAL	Ø	DIAMETER

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**BOREA CONSTRUCTION**  
**JERICHO WIND PROJECT**  
**LAMBTON COUNTY,**  
**ONTARIO, CANADA**

GE 1.6-100 NAMTS 79.7m HH  
IEC TC IIIB GE 48.7 CWE/STW  
WIND TURBINE  
PLAN SHEET  
18300mm DIA FOUNDATION

REV.	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
0	12/6/2013		

DESIGNED BY	L ZHOU
CHECKED BY	G WU
PROJECT #	130107

FILENAME:	JERICHO DRAWING SET
SCALE:	AS SHOWN
SHEET	S-1
REV.	0



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