

PLOTTED: 05/17/11 01:30:03 PM FILENAME: F:\proj\17647,50,51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4100.dwg USER: brim.pitt



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



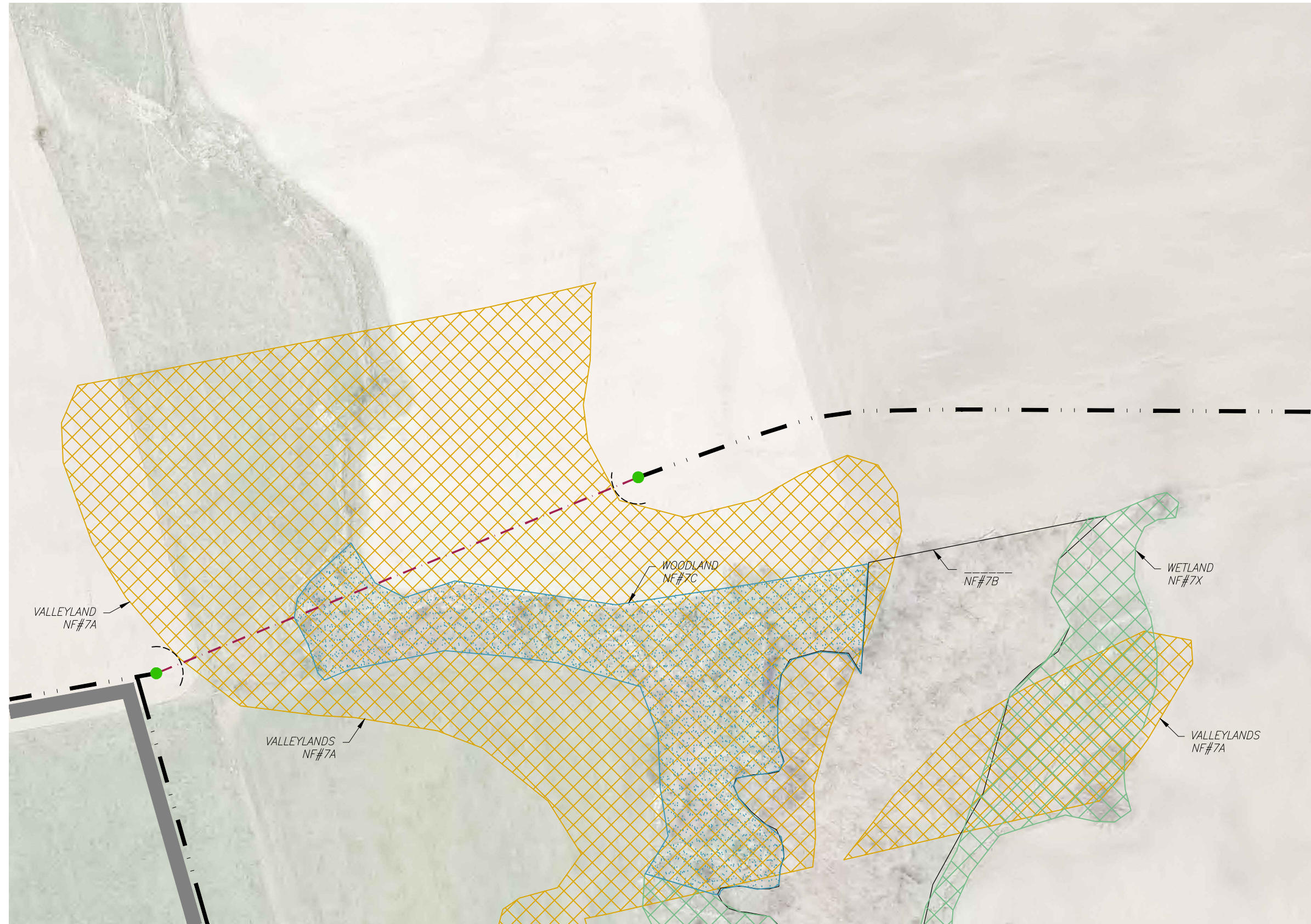
REV	DESCRIPTION	ENG	DWN	CHK	DATE	ENG: P. FJELD
A	FOR REVIEW	PSF	BJP	PSF	05/17/11	DWN: B. PITT
						CHK:
						APP:
						DATE:

SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT INDEX OF DRAWINGS			
SCALE	NONE	DRAWING	REV
		17650-4100	A

PLOTTED: 05/17/11 01:31:04 PM FILENAME: F:\proj\17647,50,51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4101.dwg USER: brim.pitt

LEGEND

-  VALLEYLAND WITHIN 120m OF PROJECT LOCATION
-  WETLAND
-  WOODLAND
-  UNDERGROUND TRENCHED COLLECTOR LINE (15.2m DISTURBANCE AREA MAX.)
-  UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
-  PROPOSED ROAD
-  10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
-  DRILLING ENTRY / EXIT POINT



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REV	DESCRIPTION	ENG	DWN	CHK	DATE	ENG: P. FJELD
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B	REVISED PER CLIENT COMMENTS	PSF	CHM	PSF	05/12/11	CHK:
C	REVISED NATURAL FEATURE BOUNDARIES	PSF	BJP	PSF	05/17/11	APP:
						DATE:

**SUMMERHAVEN WIND ENERGY CENTER
COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS**

**NATURAL FEATURE EXHIBIT
NF#7A AND NF#7C**

SCALE	NONE	DRAWING	17650-4101	REV	C
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PLOTTED: 05/13/11 12:25:21 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4102.dwg USER: chris.mccamie

LEGEND

	VALLEYLAND WITHIN 120m OF PROJECT LOCATION
	WETLAND
	WOODLAND
	OVERHEAD CABLE
	UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
	10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
	DRILLING ENTRY / EXIT POINT



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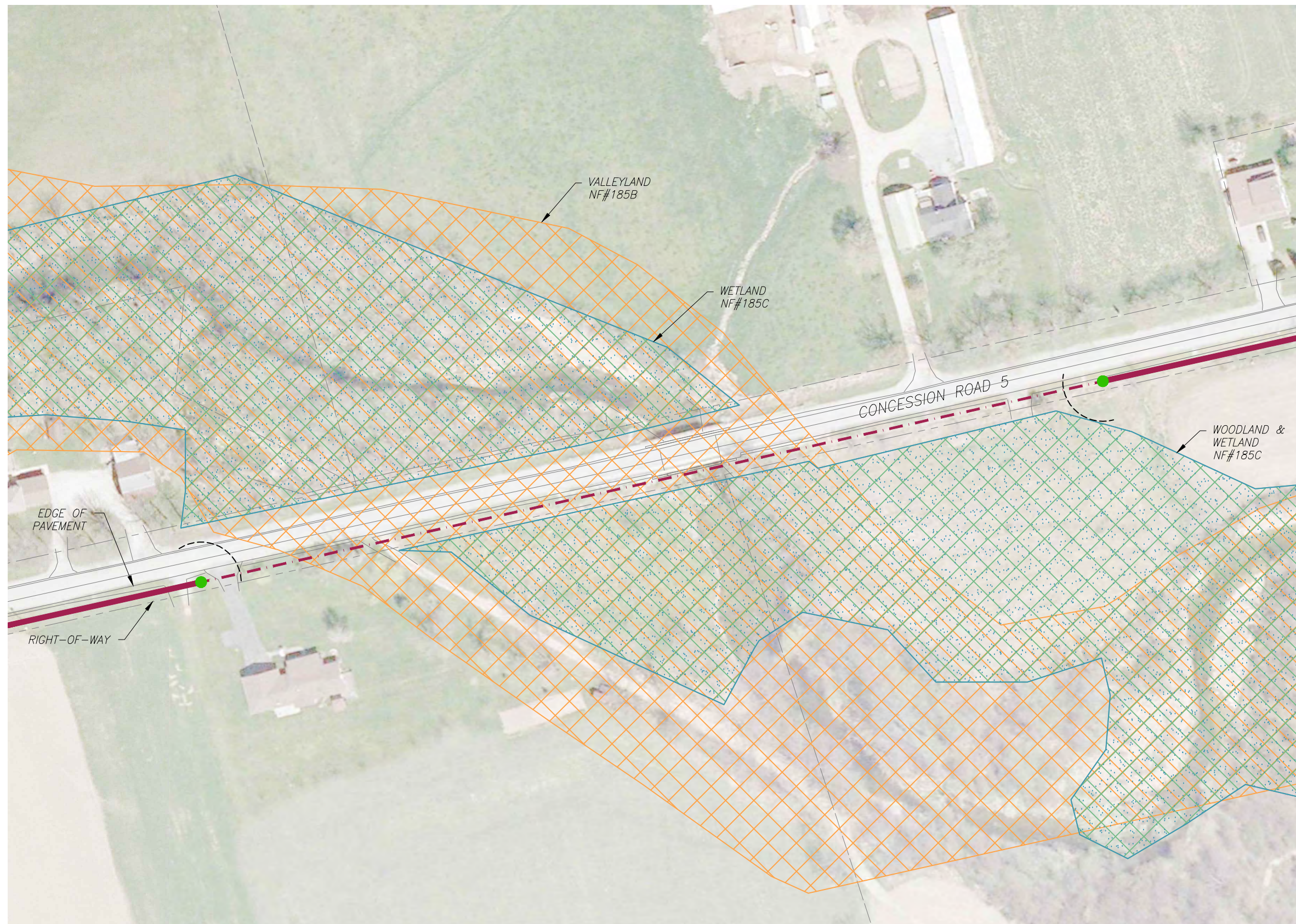
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B	REVISED PER CLIENT COMMENTS	PSF	CHM	PSF	05/12/11	CHK:
						APP:
						DATE:

SUMMERHAVEN WIND ENERGY SYSTEM COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#184C AND NF#185C			
SCALE	NONE	DRAWING	REV
		17650-4102	B

PLOTTED: 05/13/11 12:25:33 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4103.dwg USER: chris.mcdaniel

LEGEND

-  VALLEYLAND WITHIN 120m OF PROJECT LOCATION
-  WETLAND
-  WOODLAND
-  OVERHEAD CABLE
-  UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
-  10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
-  DRILLING ENTRY / EXIT POINT



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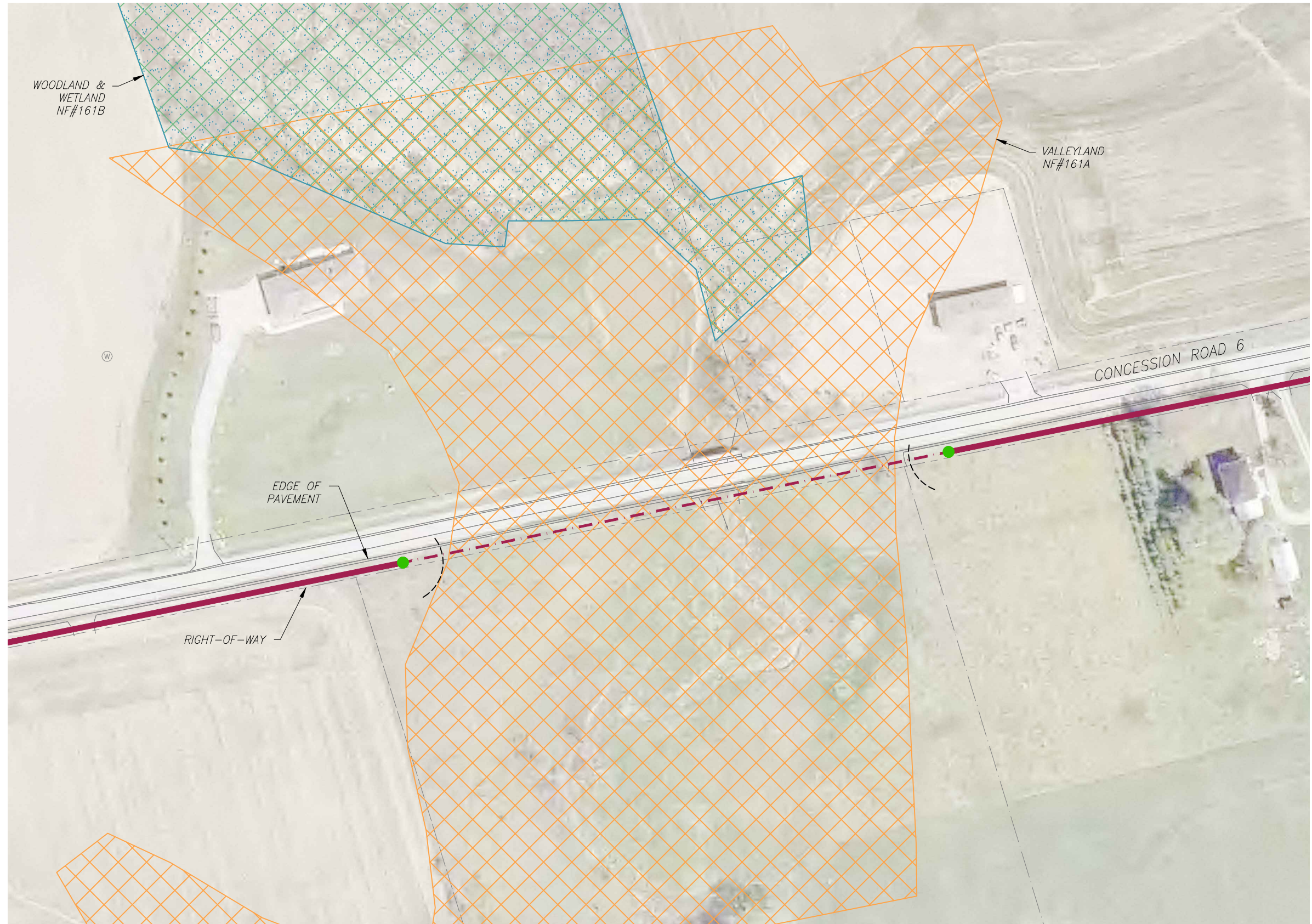
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B	REVISED PER CLIENT COMMENT	PSF	CHM	PSF	05/12/11	CHK:
						APP:
						DATE:

SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#185B AND NF#185C			
SCALE	NONE	DRAWING	REV
		17650-4103	B

PLOTTED: 05/13/11 12:25:45 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4104.dwg USER: chris.mcdaniel

LEGEND

	VALLEYLAND WITHIN 120m OF PROJECT LOCATION
	WETLAND
	WOODLAND
	OVERHEAD CABLE
	UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
	10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
	DRILLING ENTRY / EXIT POINT



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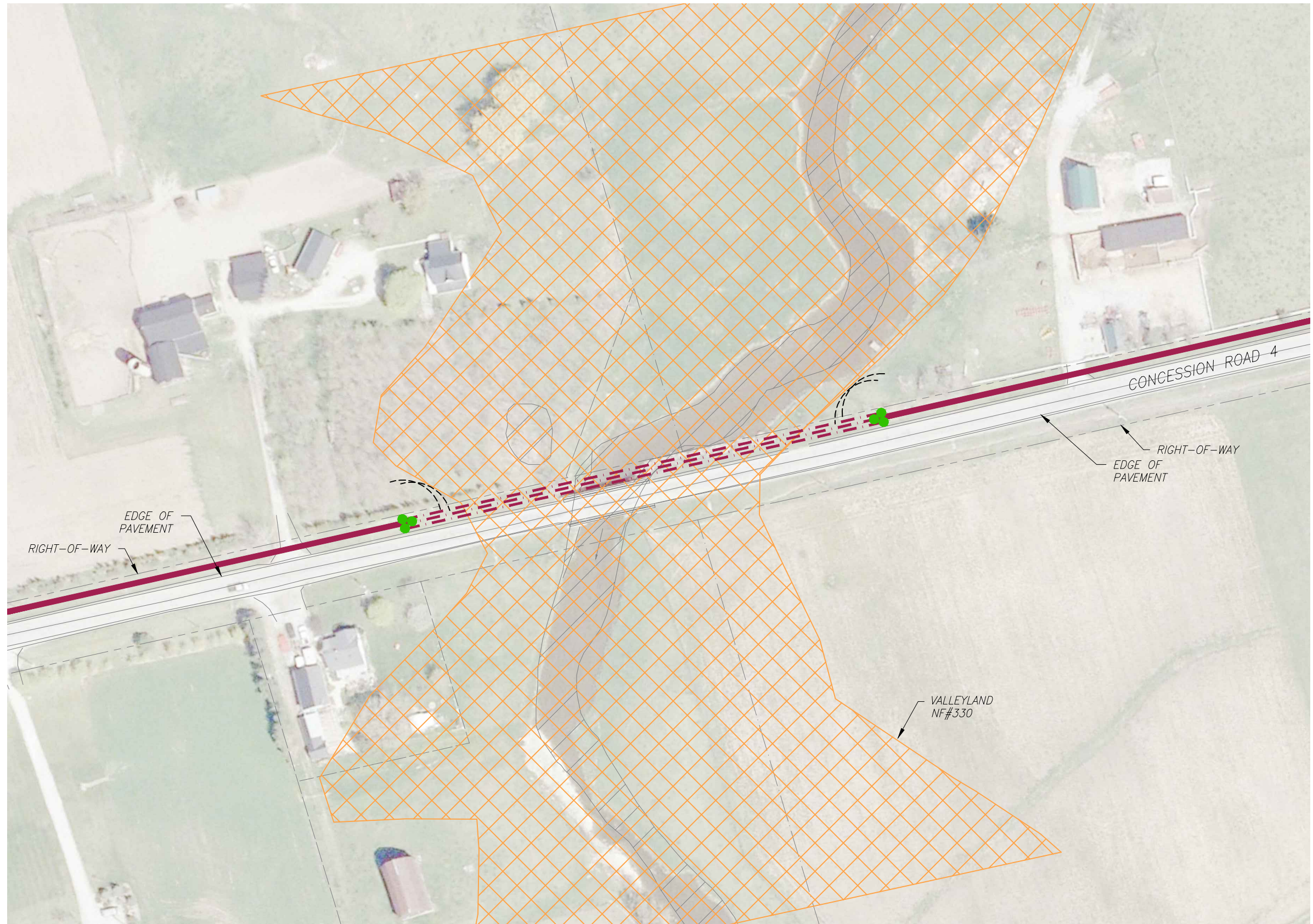
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B	REVISED PER CLIENT COMMENTS	PSF	CHM	PSF	05/12/11	CHK:
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						DATE:

SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#161A AND NF#161B			
SCALE	NONE	DRAWING	REV
		17650-4104	B

PLOTTED: 05/13/11 03:19:40 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4105.dwg USER: chris.mcdaniel

LEGEND

	VALLEYLAND WITHIN 120m OF PROJECT LOCATION
	WETLAND
	WOODLAND
	OVERHEAD CABLE
	UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
	10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
	DRILLING ENTRY / EXIT POINT



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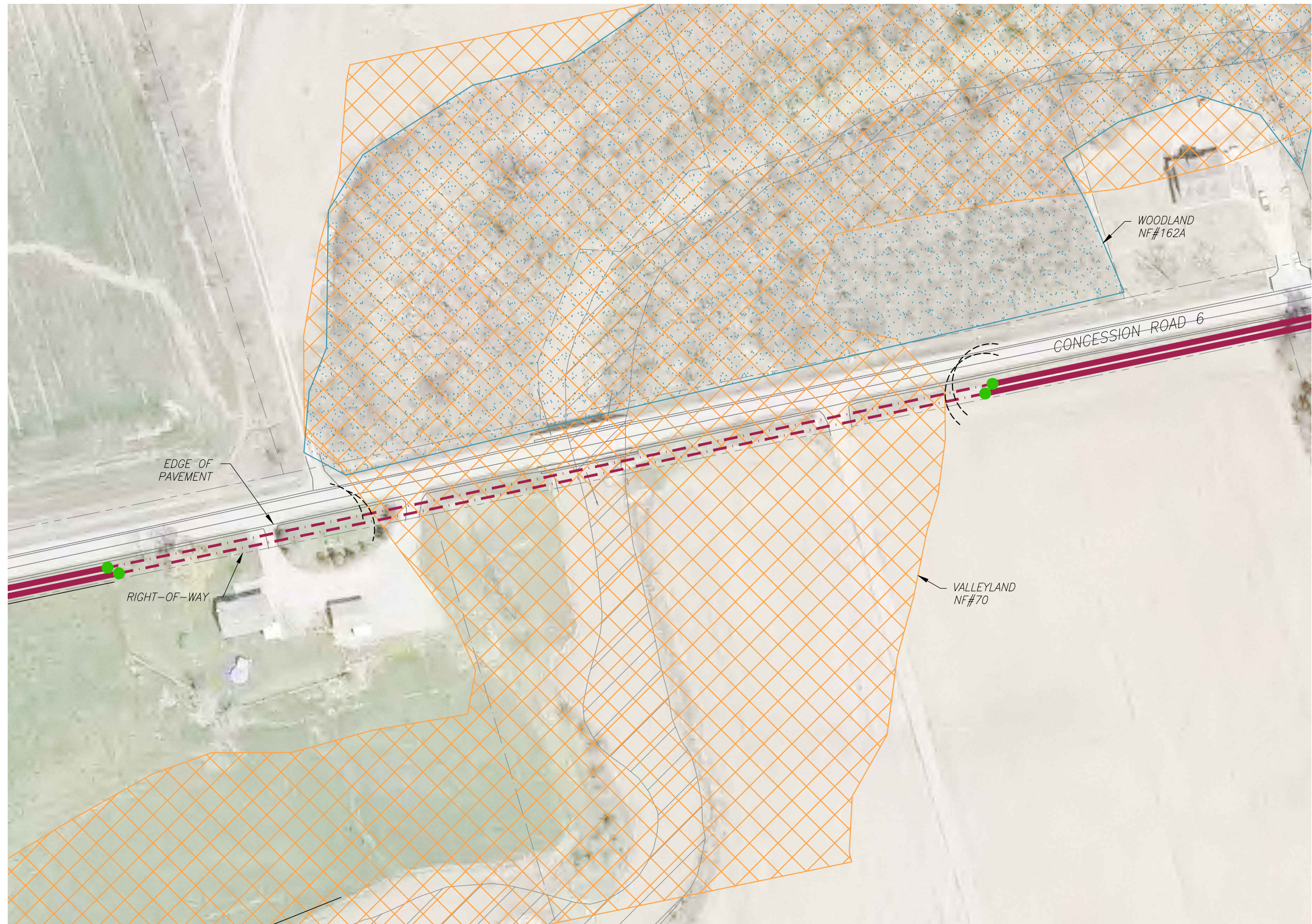
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B	REVISED PER CLIENT COMMENTS	PSF	CHM	PSF	05/12/11	CHK:
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SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#330			
SCALE	NONE	DRAWING	REV
		17650-4105	B

PLOTTED: 05/13/11 12:28:10 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4106.dwg USER: chris.mcdaniel

LEGEND

	VALLEYLAND WITHIN 120m OF PROJECT LOCATION
	WETLAND
	WOODLAND
	OVERHEAD CABLE
	UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
	10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
	DRILLING ENTRY / EXIT POINT



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A	FOR REVIEW	PSF	BJP	PSF	05/12/11	DWN: B. PITT
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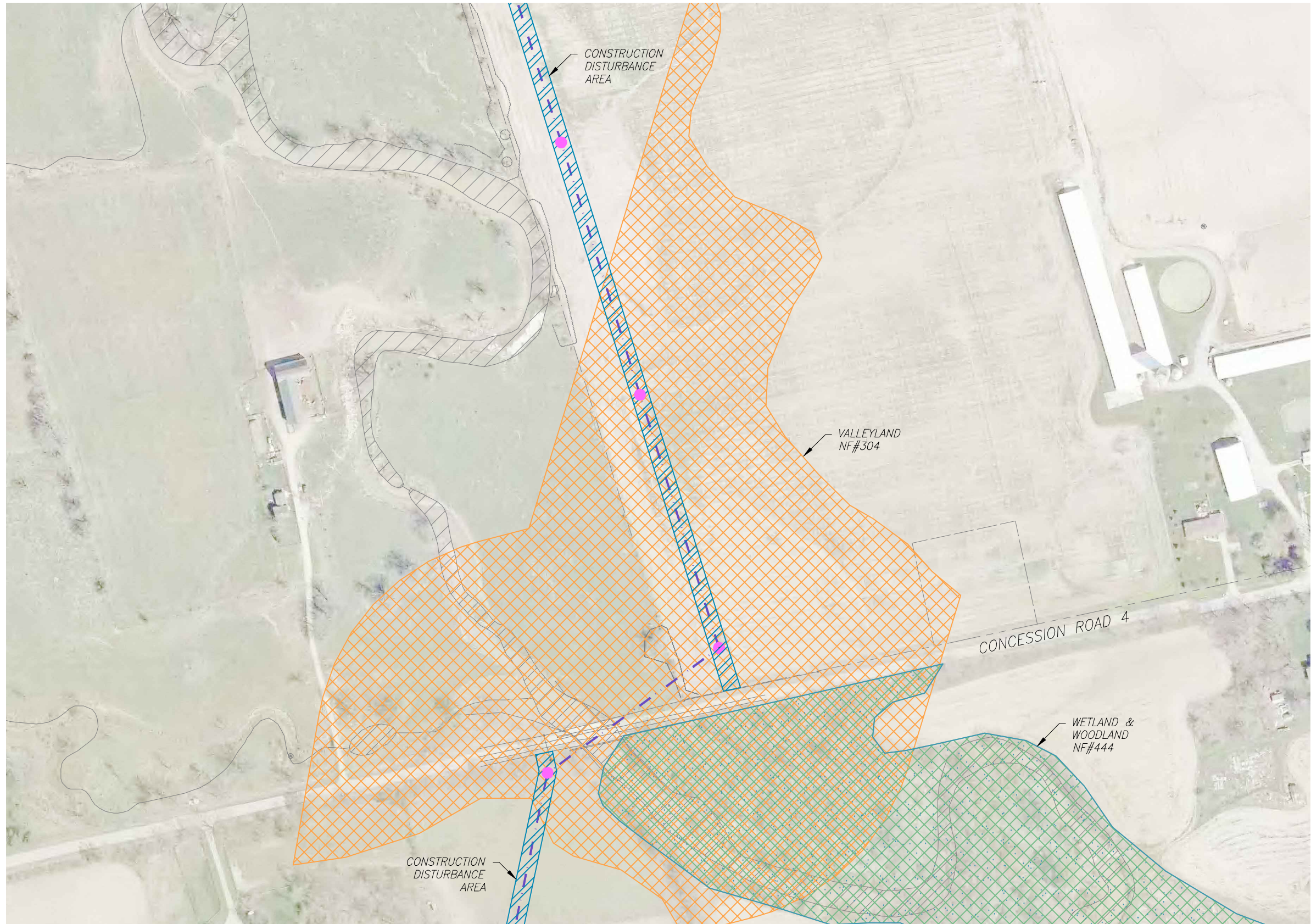
SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#70 AND NF#162A			
SCALE	NONE	DRAWING	REV
		17650-4106	B

LEGEND

-  VALLEYLAND WITHIN 120m OF PROJECT LOCATION
-  230 kV TRANSMISSION LINE
-  TRANSMISSION POLE (NOTE 5)
-  CONSTRUCTION DISTURBANCE AREA (10m)

NOTES

1. TREES AND NATIVE VEGETATION WITHIN WETLAND BOUNDARY TO BE LEFT UNDISTURBED.
2. TEMPORARY DISTURBANCE AREAS FOR POLE AND CABLE INSTALLATION TO AVOID WETLAND BOUNDARY AND BUFFER.
3. GRADE MODIFICATIONS IN VALLEYLAND SUBJECT TO LPRCA REG. 178/06 APPROVAL.
4. SEDIMENT AND STORMWATER MANAGEMENT BMP'S TO BE EMPLOYED WITHIN VALLEYLAND AND NEAR WETLAND FEATURES.
5. NONE OF THE TRANSMISSION POLES SHOWN HERE HAVE DOWN-GUYS.



PLOTTED: 05/13/11 12:26:23 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4107.dwg USER: chris.mcdaniel

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B	REVISED PER CLIENT COMMENTS	PSF	CHM	PSF	05/12/11	CHK:
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SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#304 AND NF#444			
SCALE	NONE	DRAWING	REV
		17650-4107	B

LEGEND

-  WOODLAND
-  UNDERGROUND COLLECTOR LINE AND PROPOSED ACCESS ROAD
-  PURPOSED ROAD



PLOTTED: 05/13/11 12:26:38 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4108.dwg USER: chris.mcdaniel

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B	REVISED PER CLIENT COMMENTS	PSF	CHM	PSF	05/12/11	CHK:
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SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#44			
SCALE	NONE	DRAWING	REV
		17650-4108	B

LEGEND

-  WOODLAND
-  UNDERGROUND COLLECTOR LINE AND PROPOSED ACCESS ROAD
-  PURPOSED ROAD



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SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS NATURAL FEATURE EXHIBIT NF#209			
SCALE	NONE	DRAWING	REV
		17650-4109	B

LEGEND

-  WOODLAND
-  UNDERGROUND COLLECTOR LINE
-  PURPOSED ROAD



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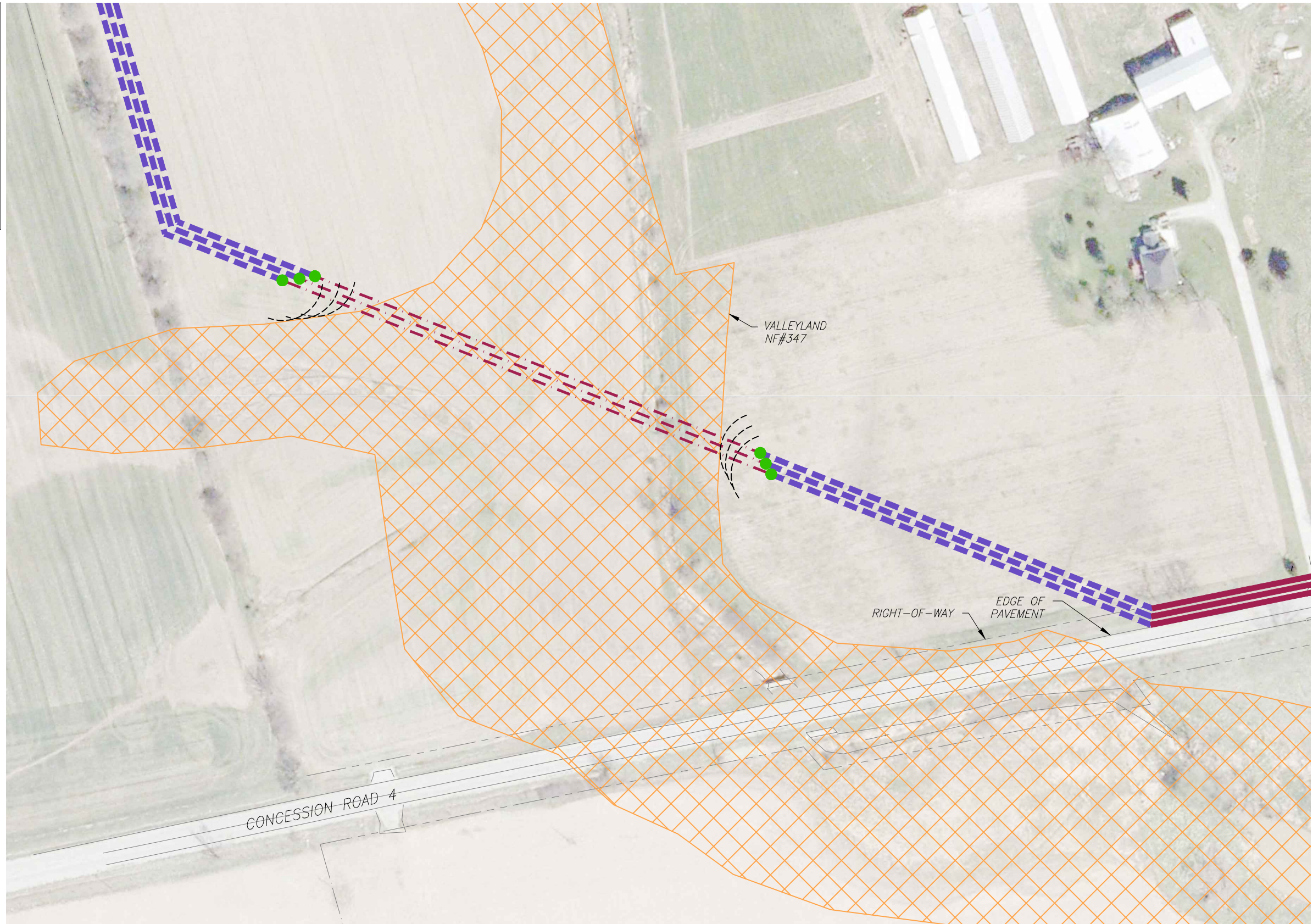
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B	REVISED PER CLIENT COMMENTS	PSF	TAZ	PSF	05/12/11	CHK:
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SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS NATURAL FEATURE EXHIBIT NF#127A AND NF#130			
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PLOTED: 05/13/11 01:30:29 PM FILENAME: F:\proj\17647_50_51 - Summerhaven\17650 Summerhaven Collection\3.0 Design\3.2 Drawings\17650-4111.dwg USER: chris.mcdaniel

LEGEND

	VALLEYLAND WITHIN 120m OF PROJECT LOCATION
	WETLAND
	WOODLAND
	OVERHEAD CABLE
	UNDERGROUND TRENCHED COLLECTOR LINE
	UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
	10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
	DRILLING ENTRY / EXIT POINT



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



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SUMMERHAVEN WIND ENERGY CENTER COLLECTOR SYSTEM DESIGN & NATURAL HERITAGE DETAILS			
NATURAL FEATURE EXHIBIT NF#347			
SCALE	NONE	DRAWING	REV
		17650-4111	B

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LEGEND

	VALLEYLAND WITHIN 120m OF PROJECT LOCATION
	WETLAND
	WOODLAND
	OVERHEAD CABLE
	UNDERGROUND DRILLED COLLECTOR LINE (1m DISTURBANCE AREA MAX.)
	10m MACHINE EXCLUSION AREA / NATURAL FEATURE BUFFER
	DRILLING ENTRY / EXIT POINT



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B	REVISED PER CLIENT COMMENTS	PSF	TAZ	PSF	05/12/11	CHK:
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