

Legend

 Project Boundary (20.95 Acres)
(9,042.3 Linear Feet)

Reference

Base map comprised of U.S.G.S. 7.5 minute topographic map, "French Settlement, LA" dated 1991.

Site Location Map

Joint Permit Application
Transmission Line Expansion
Livingston Parish

DEMCO

French Settlement Substation to Head of Island Substation



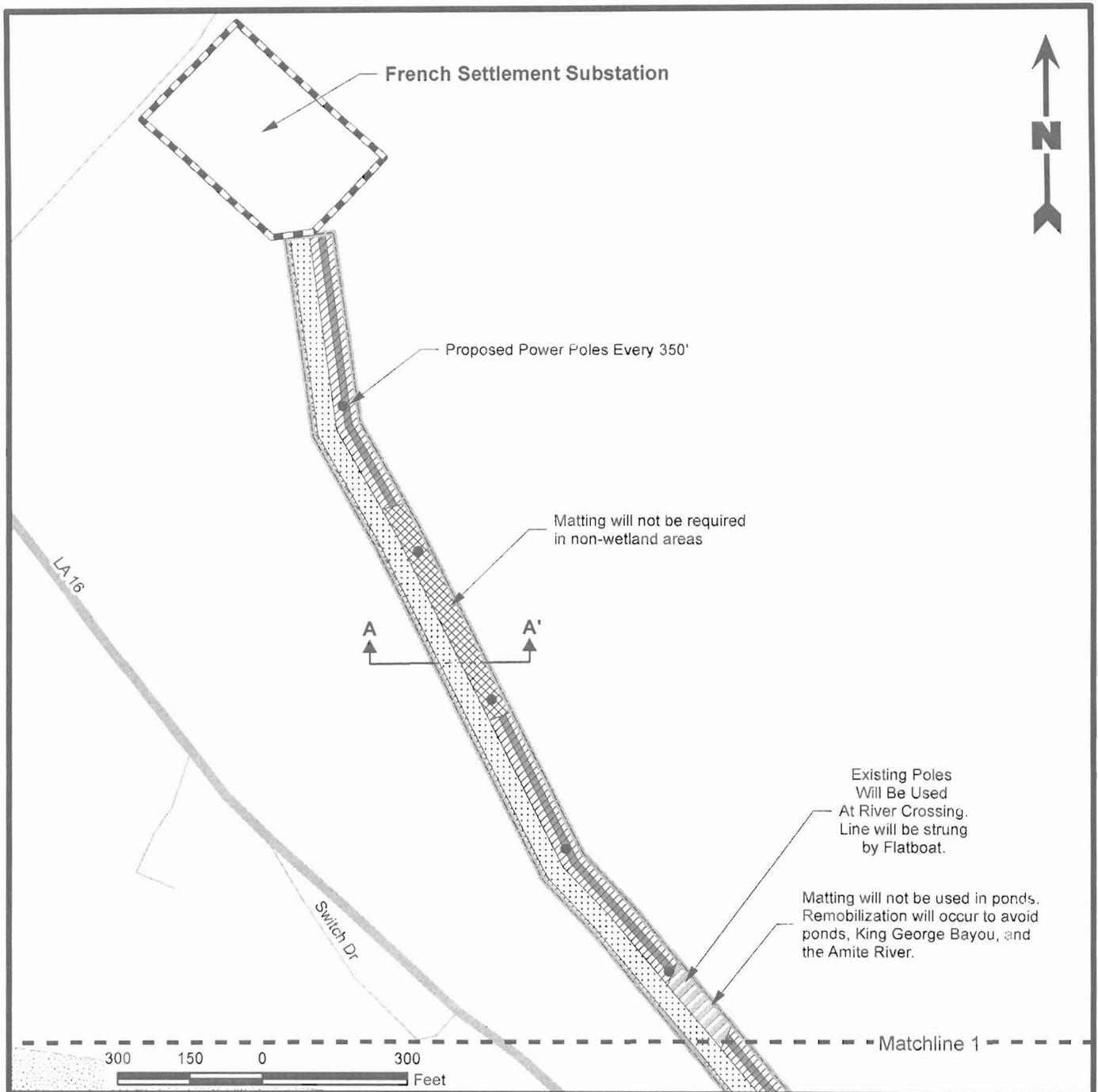
PROVIDENCE

Drawn By	DRA	10/01/08
Checked By	LMH	10/01/08
Approved By	LW	10/01/08

Project Number
361-005

Drawing Number
361-005-A029

1
Figure



Legend

	Project Boundary (20.95 Acres)		Other Waters of the U.S. (0.53 Acre)
	Jurisdictional Wetlands (9.12 Acres)		Existing Poweline ROW (8.32 Acres)
	Non-Wetlands (2.24 Acres)		Pond (0.74 Acre)
			15'x15' Temporary Mats
			Proposed Power Poles

Notes:

1. All construction will occur within the project boundary.
2. No fill will be deposited in other waters of the U.S. or ponds.
3. Mats will be utilized in wetland areas, as needed, and will be removed upon project completion.

Site Plan

Joint Permit Application
Transmission Line Expansion
Livingston Parish

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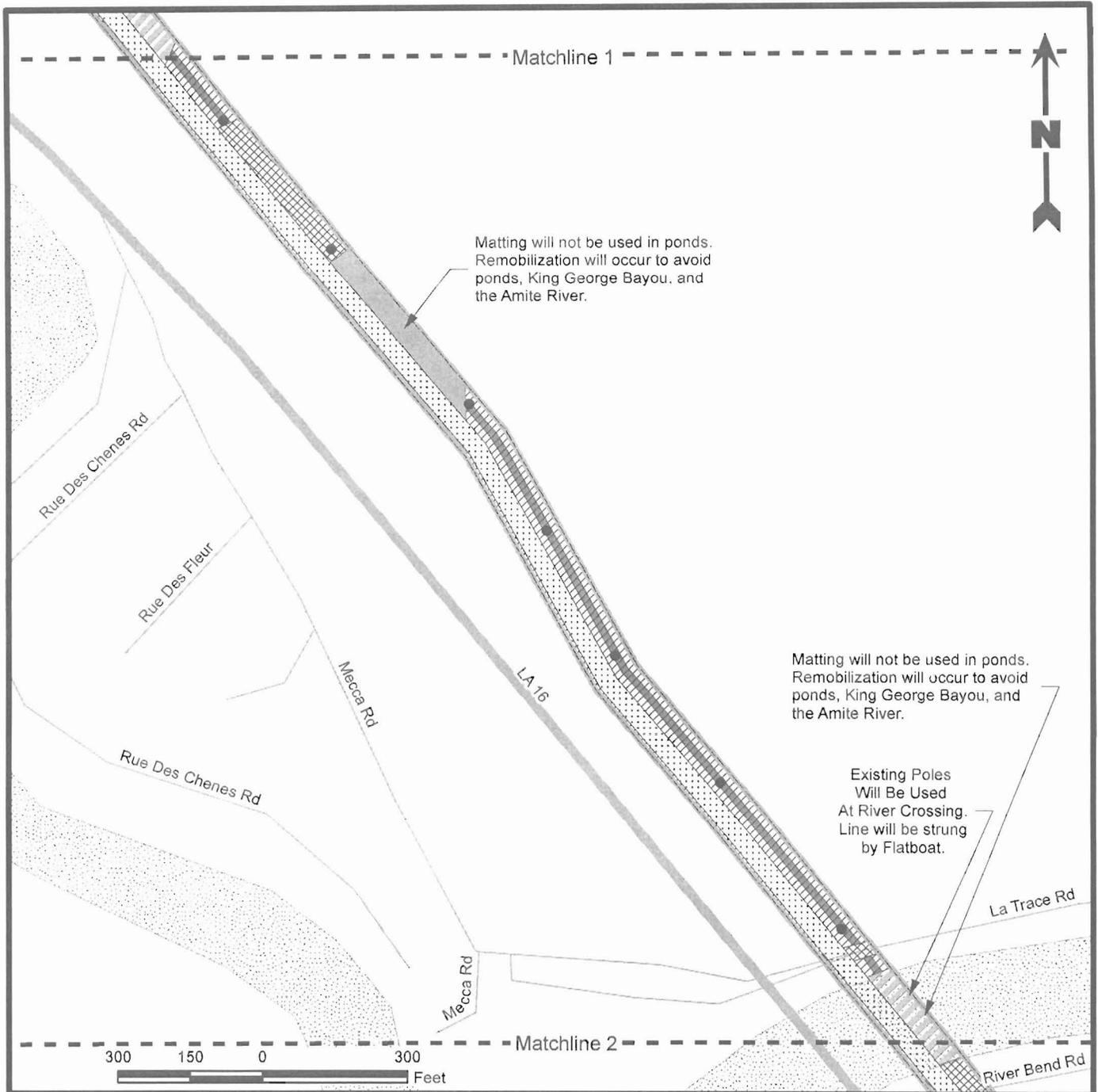
French Settlement Substation to Head of Island Substation



Drawn By	DRA	10/01/08
Checked By	LMH	10/01/08
Approved By	LW	10/01/08

Project Number	361-005
Drawing Number	361-005-A030

2a
Figure



Legend

	Project Boundary (20.95 Acres)		Other Waters of the U.S. (0.53 Acre)
	Jurisdictional Wetlands (9.12 Acres)		Existing Poweline ROW (8.32 Acres)
	Non-Wetlands (2.24 Acres)		Pond (0.74 Acre)
			15x15' Temporary Mats
			Proposed Power Poles

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Site Plan

Joint Permit Application
Transmission Line Expansion
Livingston Parish

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French Settlement Substation to Head of Island Substation



PROVIDENCE

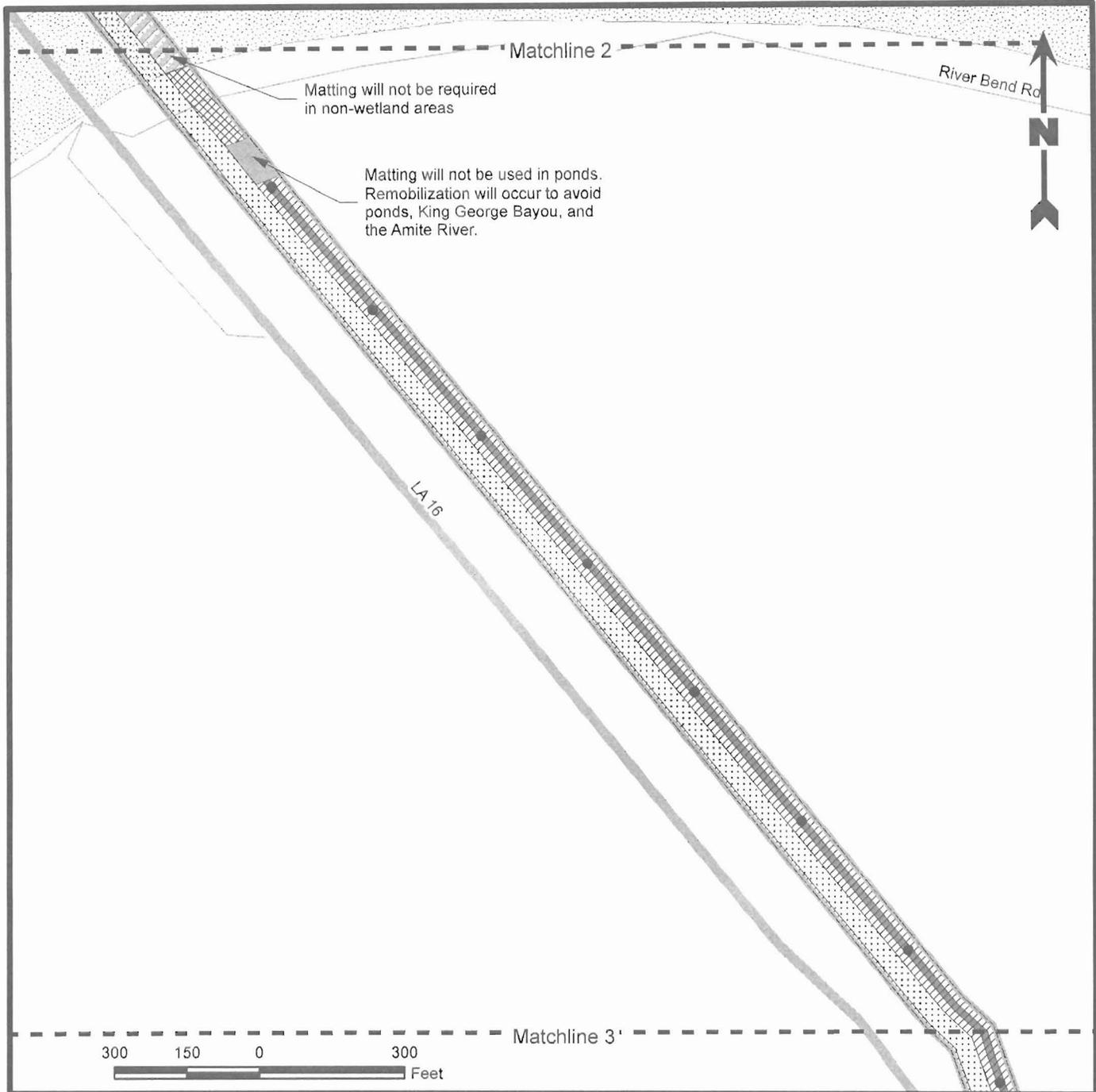
Drawn By	DRA	10/01/08
Checked By	LMH	10/01/08
Approved By	LW	10/01/08

Project Number
361-005

Drawing Number
361-005-A031

2b

Figure



Legend

	Project Boundary (20.95 Acres)		Other Waters of the U.S. (0.53 Acre)
	Jurisdictional Wetlands (9.12 Acres)		Existing Poweline ROW (8.32 Acres)
	Non-Wetlands (2.24 Acres)		Pond (0.74 Acre)
			15x15' Temporary Mats
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Site Plan

Joint Permit Application
Transmission Line Expansion
Livingston Parish

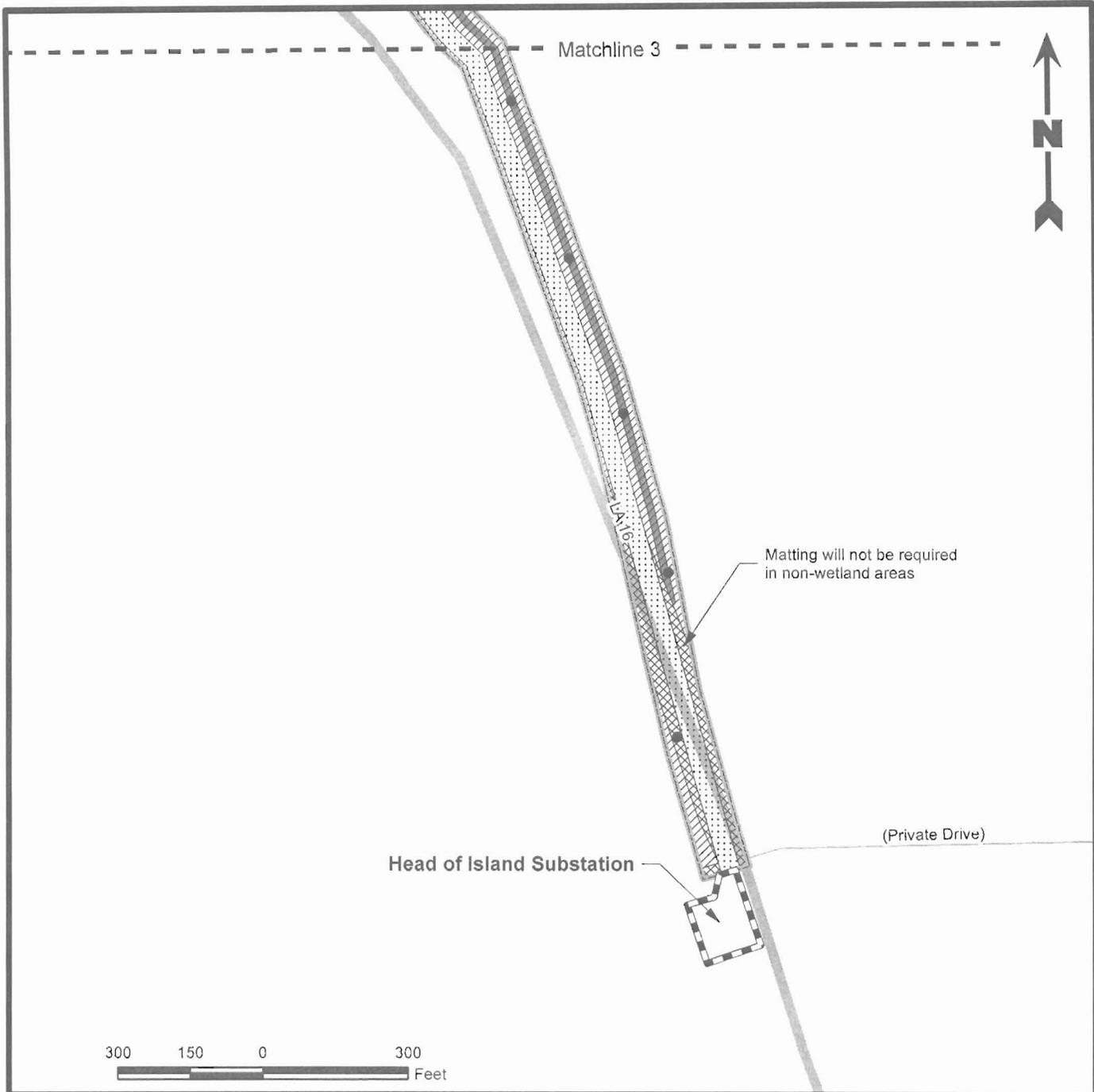
DEMCO

French Settlement Substation to Head of Island Substation



Drawn By	DRA	10/01/08
Checked By	LMH	10/01/08
Approved By	LW	10/01/08

Project Number	2c Figure
361-005	
Drawing Number	
361-005-A032	



Legend

	Project Boundary (20.95 Acres)		Other Waters of the U.S. (0.53 Acre)
	Jurisdictional Wetlands (9.12 Acres)		Existing Poweline ROW (8.32 Acres)
	Non-Wetlands (2.24 Acres)		Pond (0.74 Acre)
			15'x15' Temporary Mats
			Proposed Power Poles

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Site Plan

Joint Permit Application
Transmission Line Expansion
Livingston Parish

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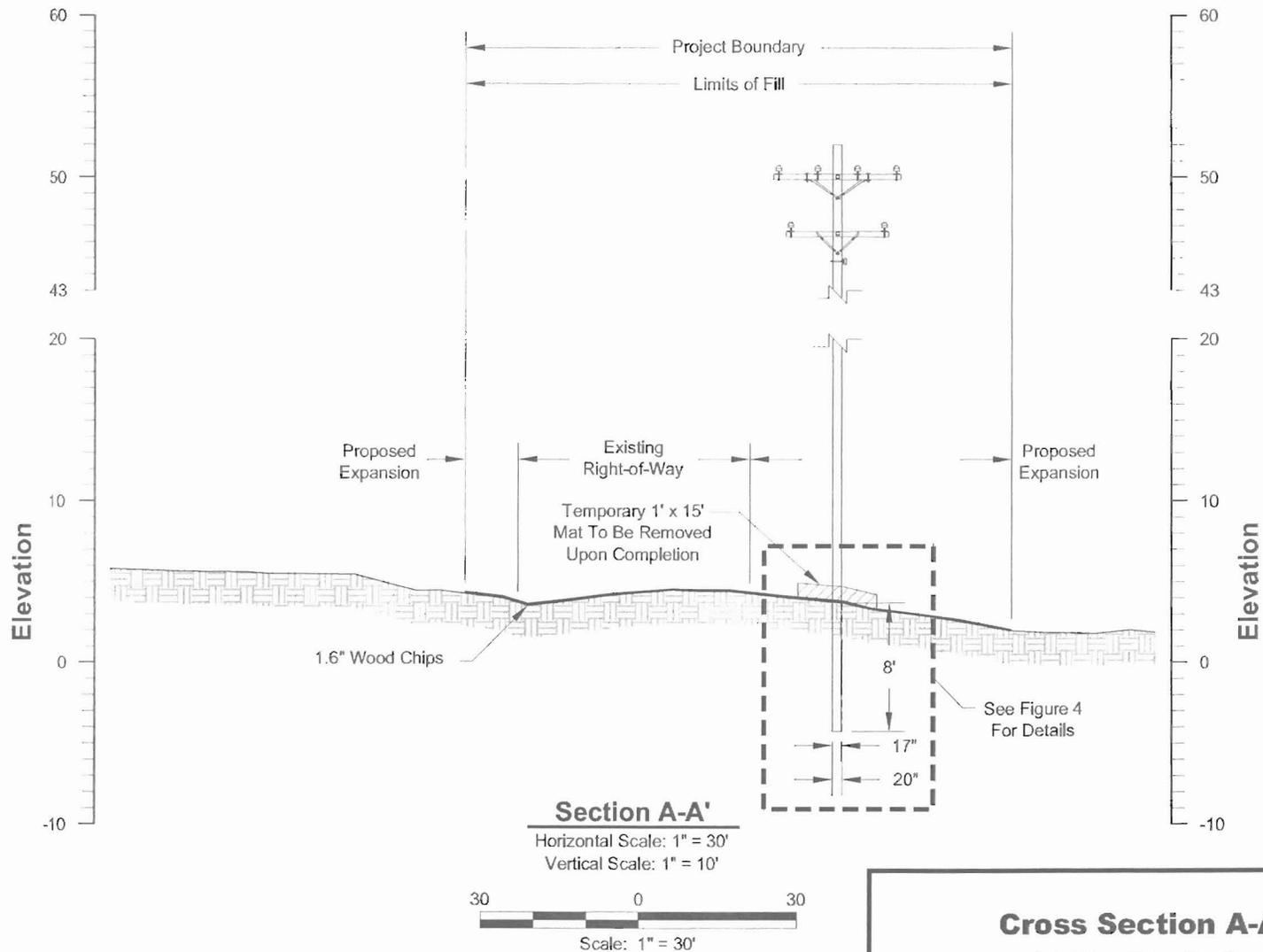
French Settlement Substation to Head of Island Substation



Drawn By	LMH	10/01/08
Checked By	DRA	10/01/08
Approved By	LW	10/01/08

Project Number	361-005
Drawing Number	361-005-A033

2d
Figure



Note:

1. All construction will occur within the project boundary.
2. Excavation of native material required for pole placements = 19.38 yds³.
3. Fill associated with wood chips = 4,202.8 yds³ (1.6 inches deep over existing and proposed right-of-way).
4. Trees larger than 8" will be cut and removed. Trees will be brought to a local mill located in Albany, Louisiana.

Cross Section A-A'

Joint Permit Application
 Transmission Line Expansion
 Livingston Parish

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French Settlement Substation to Head of Island Substation

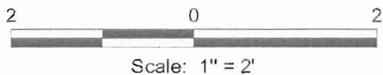
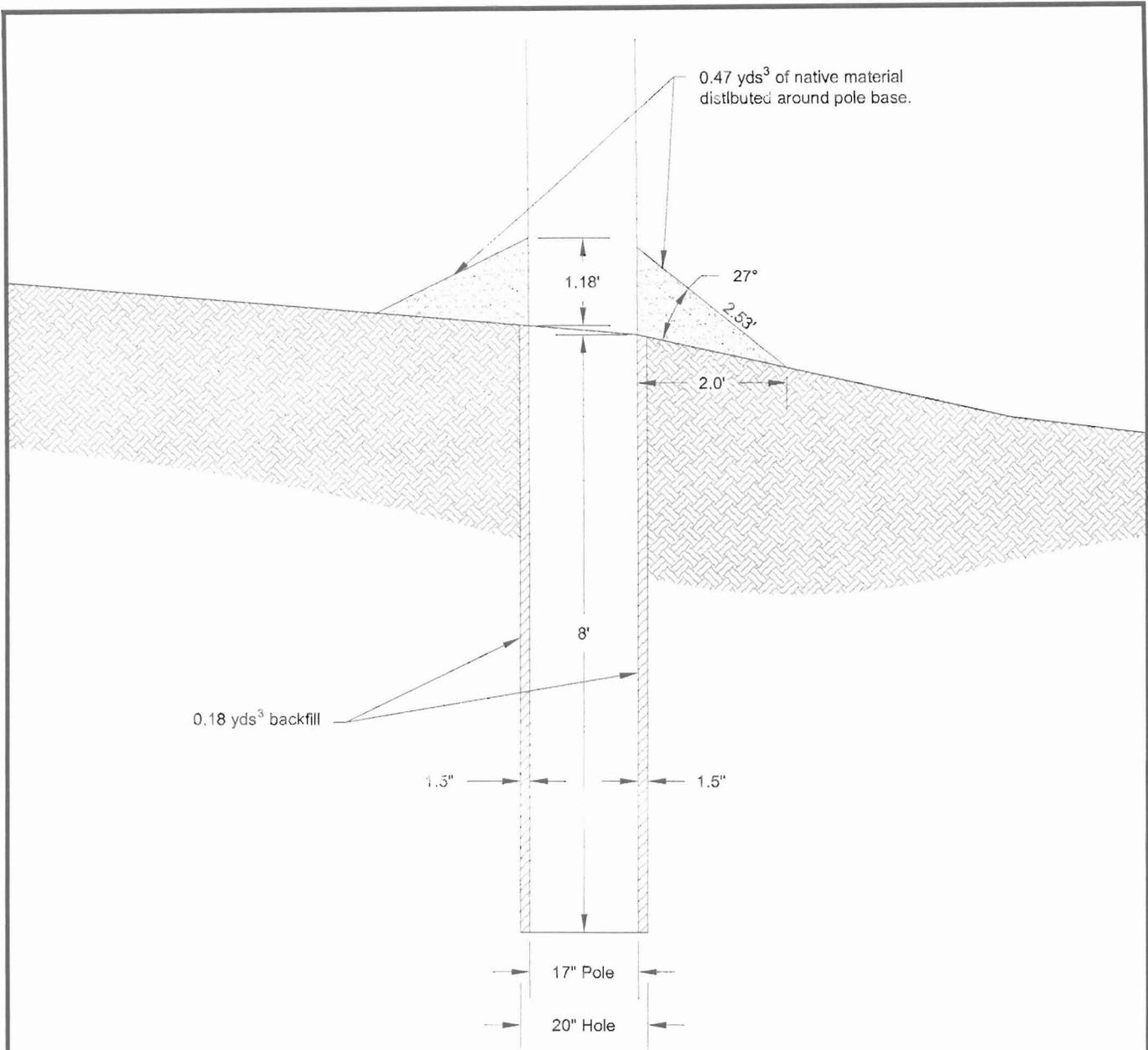


Drawn By	JCS	10/01/08
Checked By	DRA	10/01/08
Approved By	LW	10/01/08

Project Number	361-005
Drawing Number	361-005-A034

3

Figure



Note:

1. All construction will occur within the project boundary.
2. Excavation of native material required for pole placements = 19.36 yds³.
3. Fill associated with wood chips = 4,202.8 yds³ (1.6 inches deep over existing and proposed right-of-way).
4. Trees larger than 8" will be cut and removed. Trees will be brought to a local mill located in Albany, Louisiana.

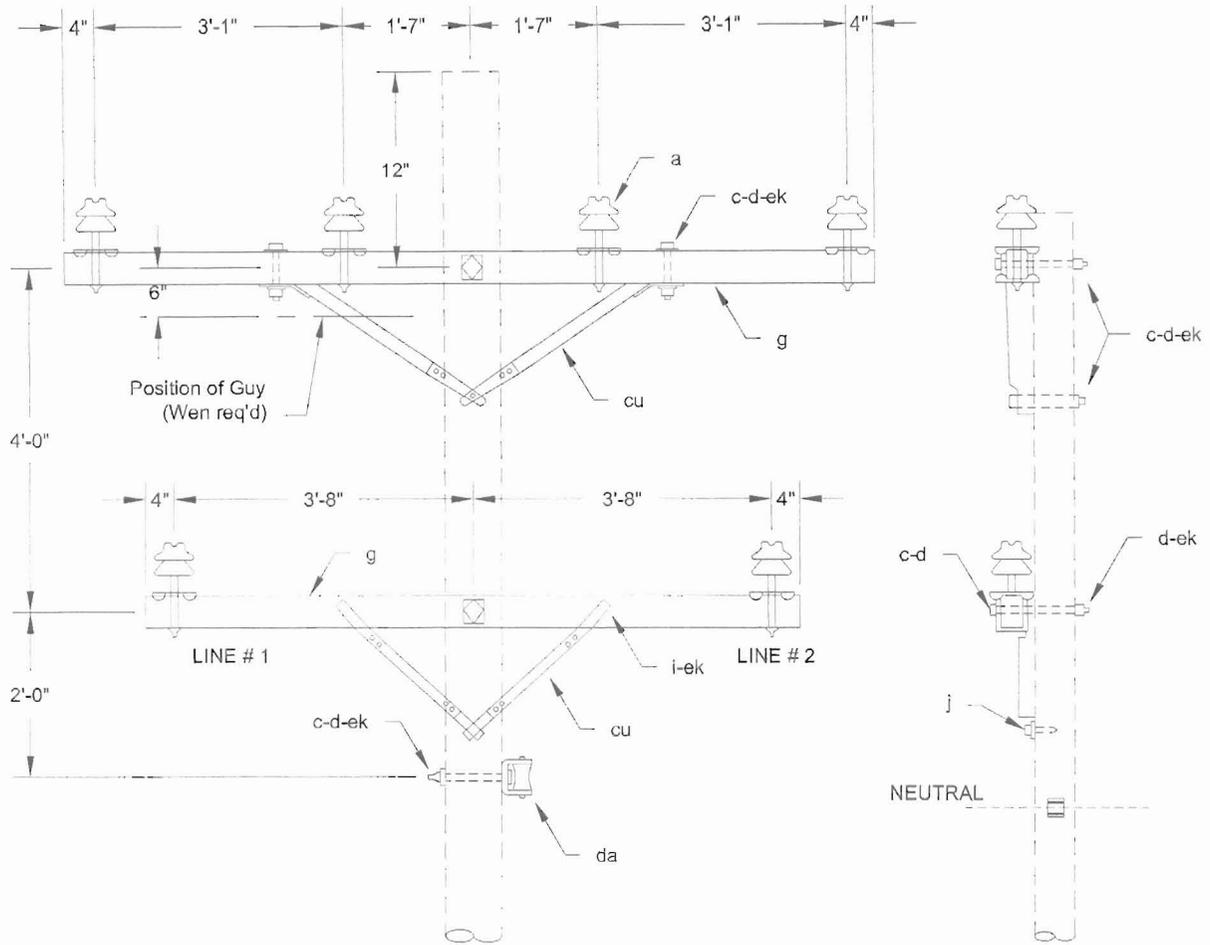
**Typical Utility Pole Excavation
Cross Section**
Joint Permit Application
Transmission Line Expansion
Livingston Parish

DEMCO

French Settlement Substation to Head of Island Substation



Drawn By	JCS	11/11/08
Checked By	DRA	11/11/08
Approved By	LW	11/11/08
Project Number		4 Figure
361-005		
Drawing Number		
361-005-A035		



ITEM	QTY	MATERIAL
a	6	Insulator, pin type, (24.9/14.4 kV)
b	2	Bolt, machine, $\frac{1}{2}$ " x req'd length
c	3	Bolt, machine, $\frac{5}{8}$ " x length
d	2	Washer, round, 1 $\frac{3}{8}$ "
o	6	Washer, square, 2 $\frac{1}{4}$ "
f	6	Pin, crossarm, steel, clamp type
g	1	Crossarm, 3 $\frac{5}{8}$ " x 4 $\frac{5}{8}$ " x 8'-0"

ITEM	QTY	MATERIAL
g	1	Crossarm, 3 $\frac{5}{8}$ " x 4 $\frac{5}{8}$ " x 10'-0"
i	2	Bolt, carriage, $\frac{3}{8}$ " x 4 $\frac{1}{2}$ "
j	1	Screw, lag, $\frac{1}{2}$ " x 4"
cu	2	Brace, 28"
cu	1	Brace, wood, 60" span
da	1	Bracket, insulator
ek	8	Locknuts

NOT TO SCALE

Note:

1. Average height of poles are 60'.
2. Typically poles will be set 10% plus 2' based on height
3. Poles will be drilled and backfilled with existing soil.
4. Span length will vary between 350' and 400'.

**Single Support On Crossarms
(Large Conductors)**
Joint Permit Application
Transmission Line Expansion
Livingston Parish

DEMCO

French Settlement Substation to Head of Island Substation

	Drawn By	JCS	08/25/08
	Checked By	LMH	08/25/08
	Approved By	LW	08/26/08
Project Number		361-005	
Drawing Number		361-005-A018	
			5 Figure