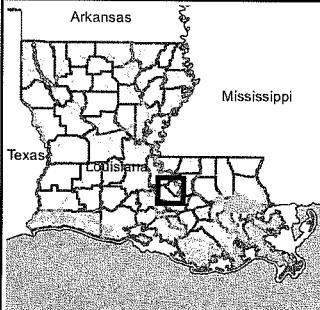
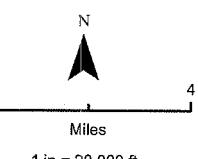
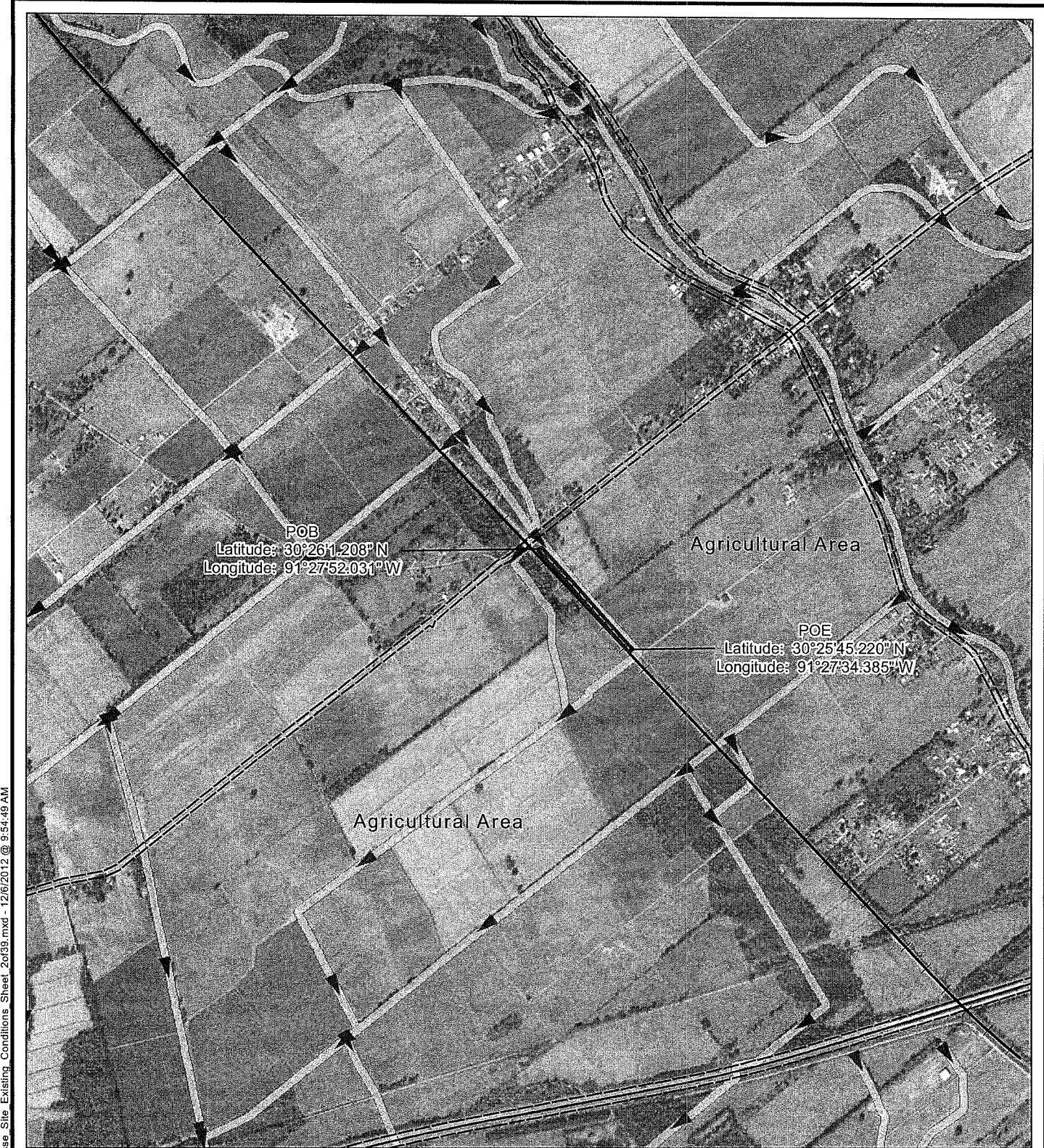


— Major Highway
— Interstate
-+ - Rail Centerline
■ Project Boundary

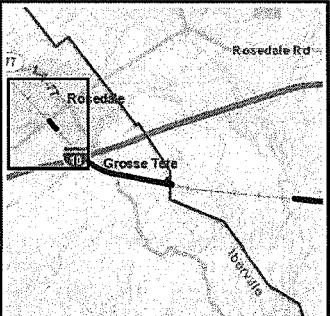
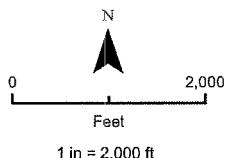
December 06, 2012

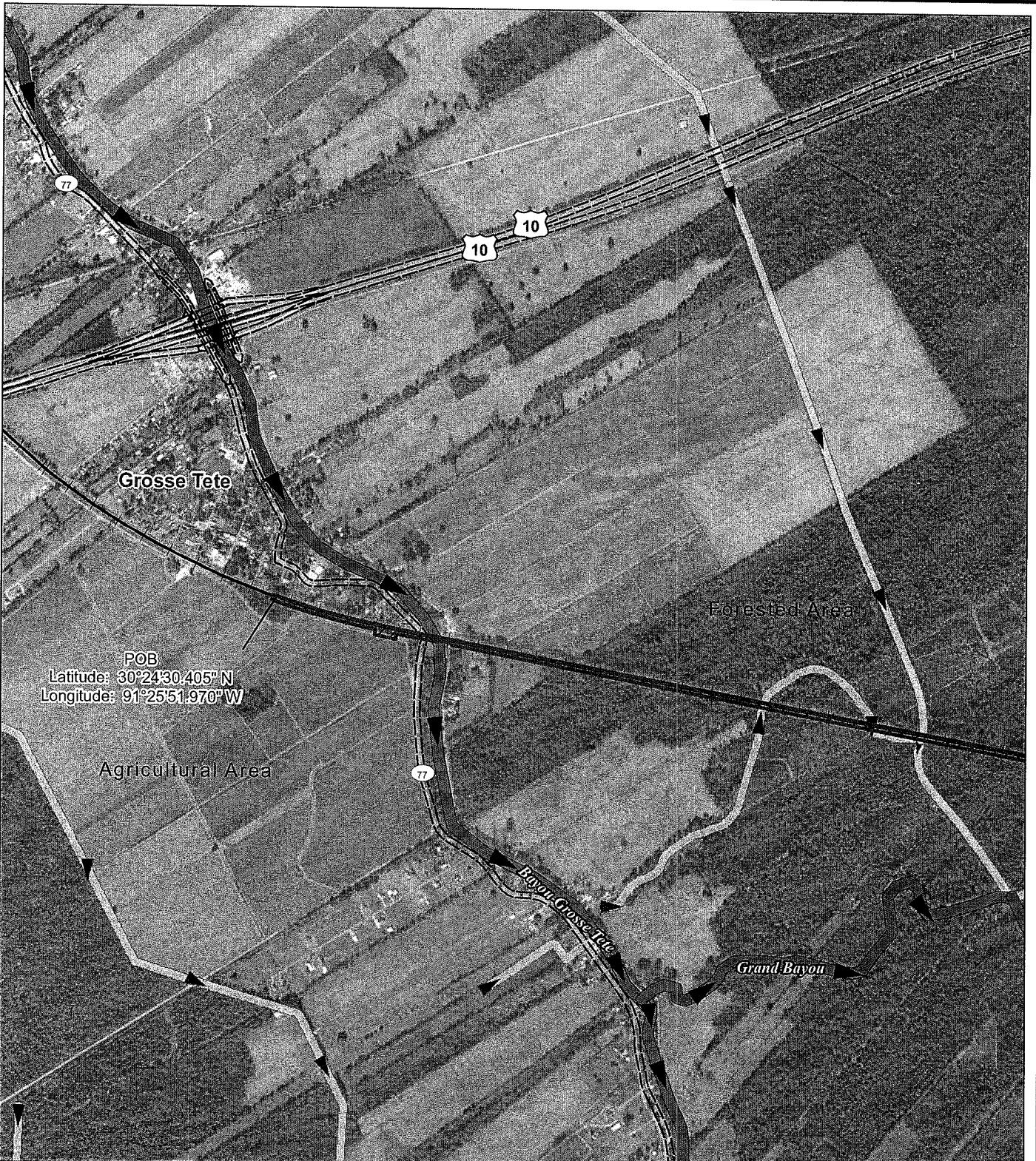




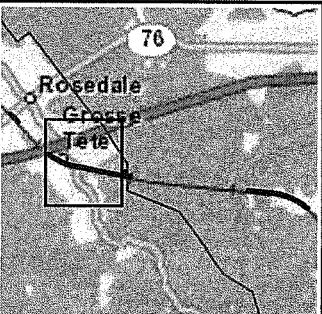
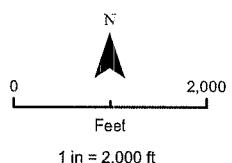
- Existing Track
- Road Centerline
- Surface Water and Flow Direction (Unnamed Drainage)
- Project Boundary

December 06, 2012





December 06, 2012

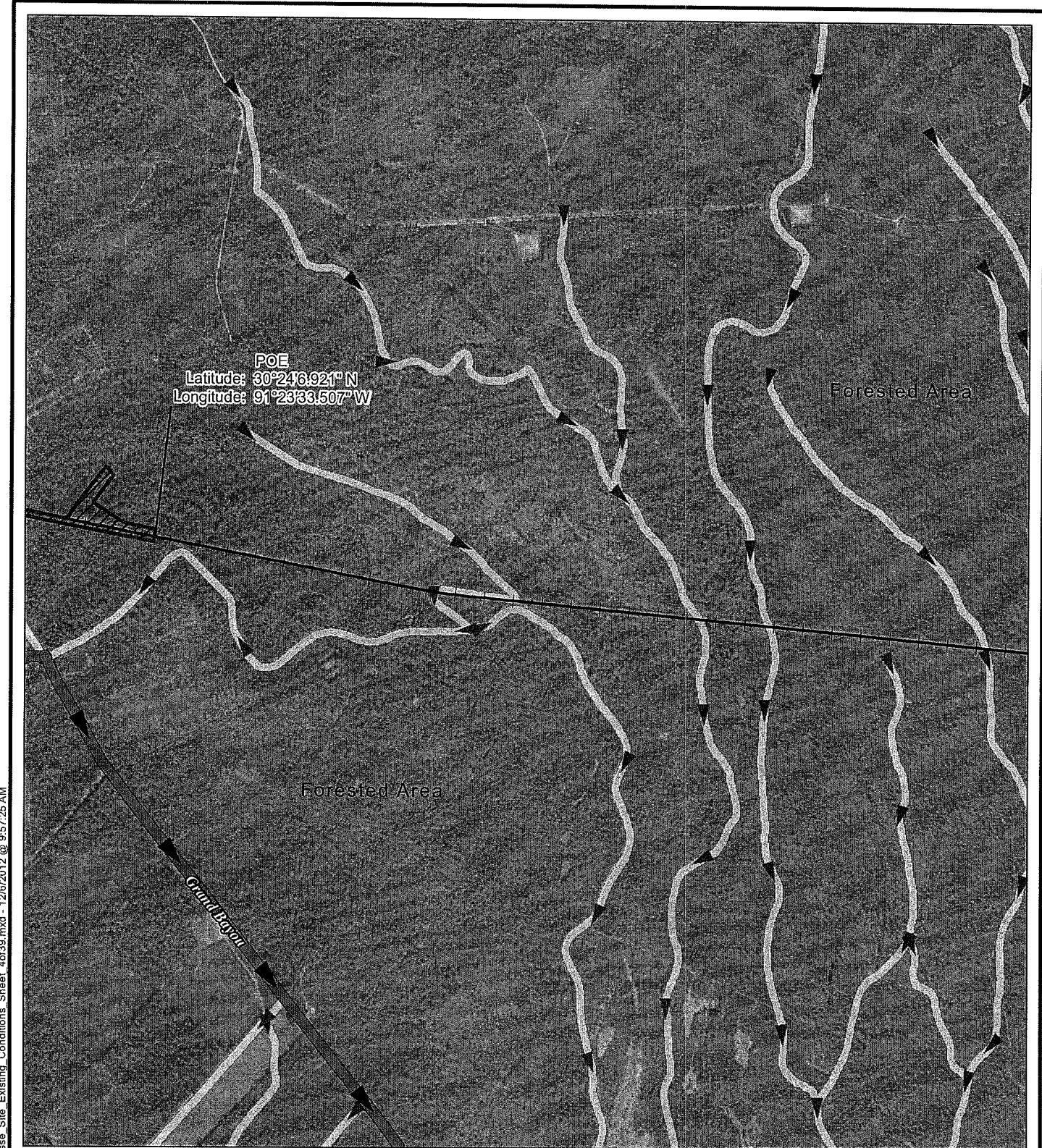


- Existing Track
- Road Centerline
- Surface Water and Flow Direction (Unnamed Drainage)
- Surface Water and Flow Direction
- Project Boundary

Union Pacific Railroad
Existing Conditions
Grosse Tete to Addis

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Figure 1
Sheet 3 of 39



Existing Track

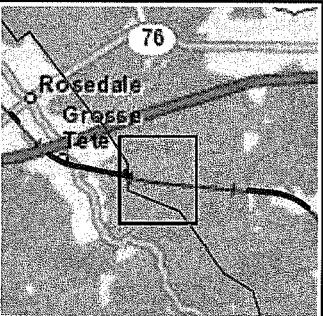
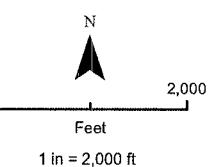
Road Centerline

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Project Boundary

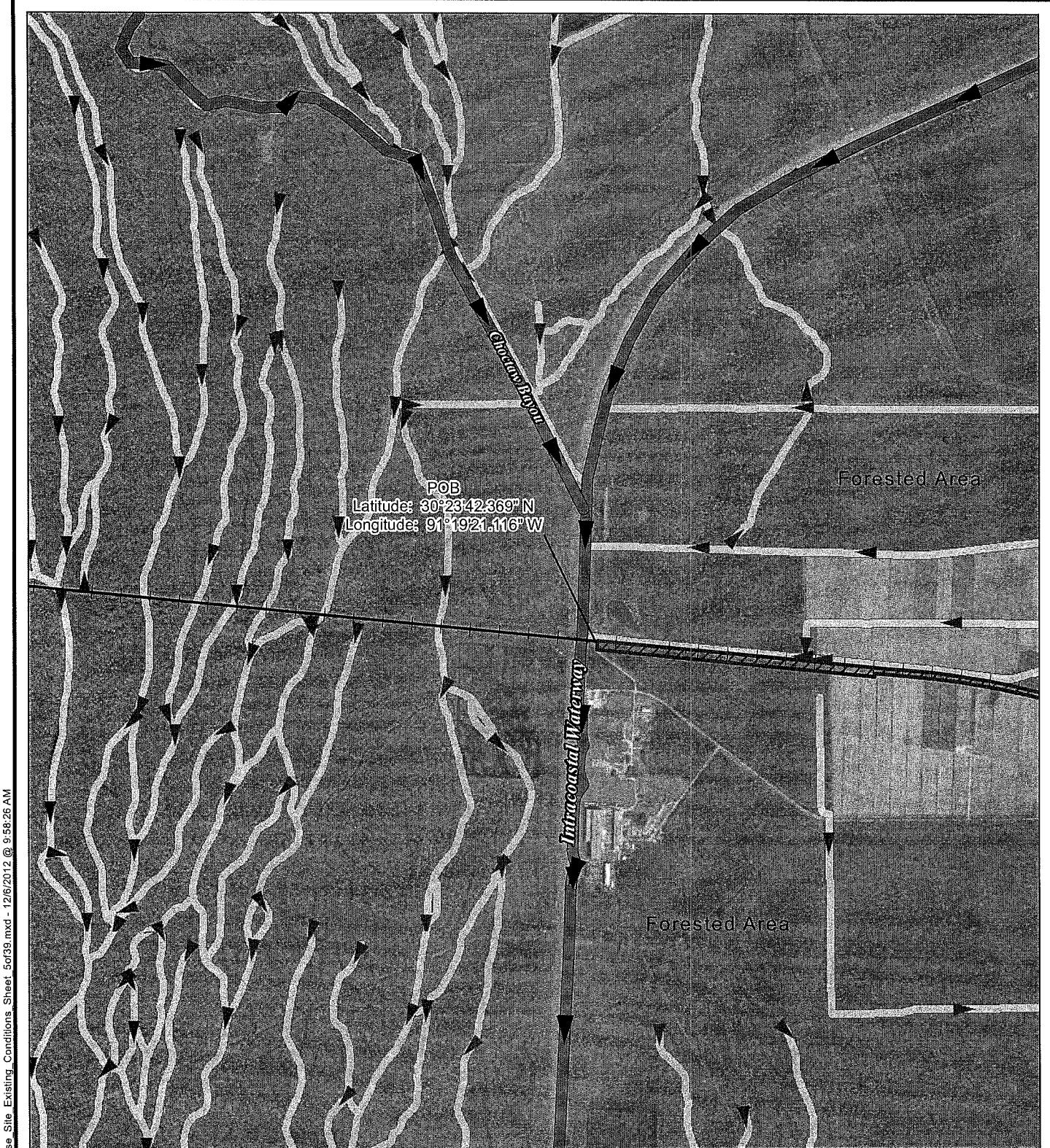
December 06, 2012



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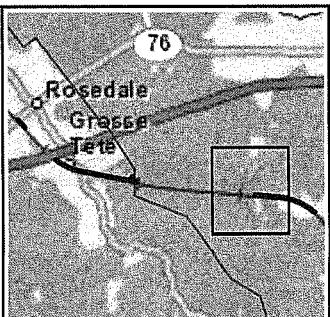
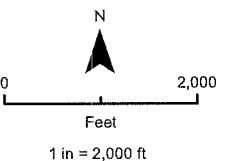
Union Pacific Railroad
Existing Conditions
Grosse Tete to Addis

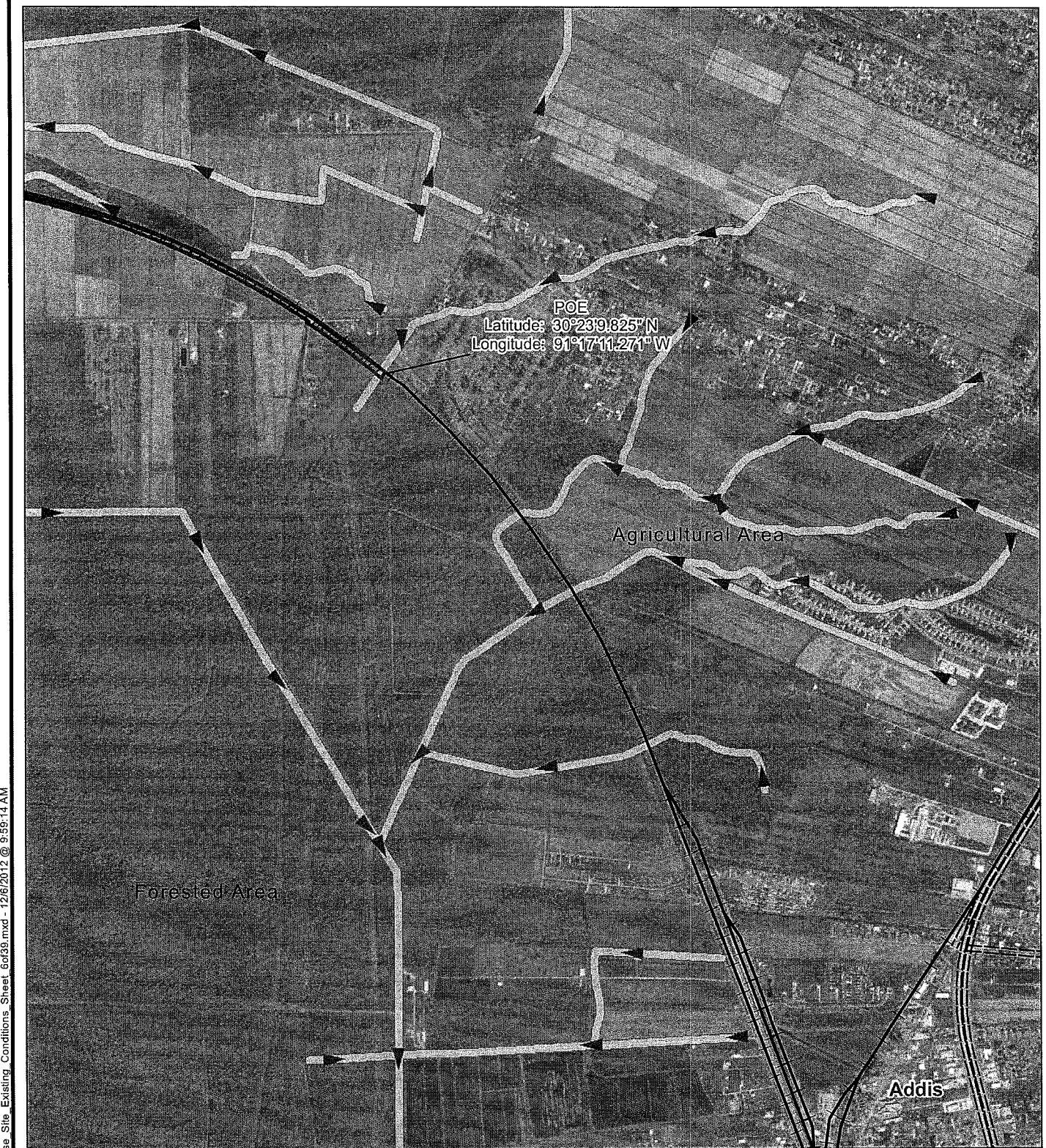
Figure 1
Sheet 4 of 39



- Existing Track
- Road Centerline
- Surface Water and Flow Direction (Unnamed Drainage)
- Surface Water and Flow Direction
- / Project Boundary

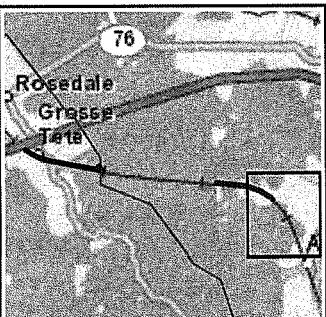
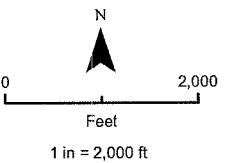
December 06, 2012





- Existing Track
- Road Centerline
- Surface Water and Flow Direction (Unnamed Drainage)
- ▨ Project Boundary

December 06, 2012



(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

POB
Latitude: 30°26'1.208" N
Longitude: 91°27'52.031" W

Rosedale Road/LA 76

073112_B_1001_E
No Impact

W003_PFO
Permanent Impact: 0.646 ac (6,378 CY)
to be filled by embankment construction
Temporary Impact: 0.151 ac

073112_B_1002_E
No Impact

Mile Post 104.16
Proposed Bridge
(See Typical Access Road
Bridge, Sheets 36 and 37)

111911_Q_1009_D
Permanent Impact: 0.010 ac of
impact due to 48 CY of excavation
for bridge construction
Temporary Impact: 0.009 ac

Access Road
(See Sheet 33)

Ibererville Parish

Note:
Swale to be constructed.
See Sheet 29.

Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Note:
Swale to be constructed.
See Sheet 29.

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

111911_Q_1008_D
Temporary Impact
0.022 ac

Existing Right of Way Road Centerline

Surface Water and
Flow Direction (Unnamed Drainage)

Grading Limits

Access Road Corridor

Surface Water and
Flow Direction

Proposed Track

PLSS Section Line

Post-Construction Drainage

Existing Track

Potential Jurisdictional Waters of the U.S.

Flow Direction

Proposed Bridge

Potential Jurisdictional Wetlands

Existing Bridge

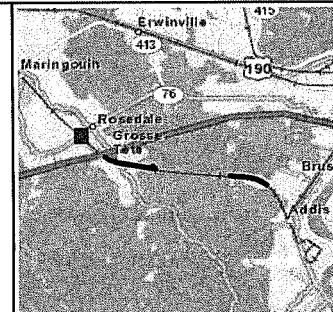
Permanent Workspace

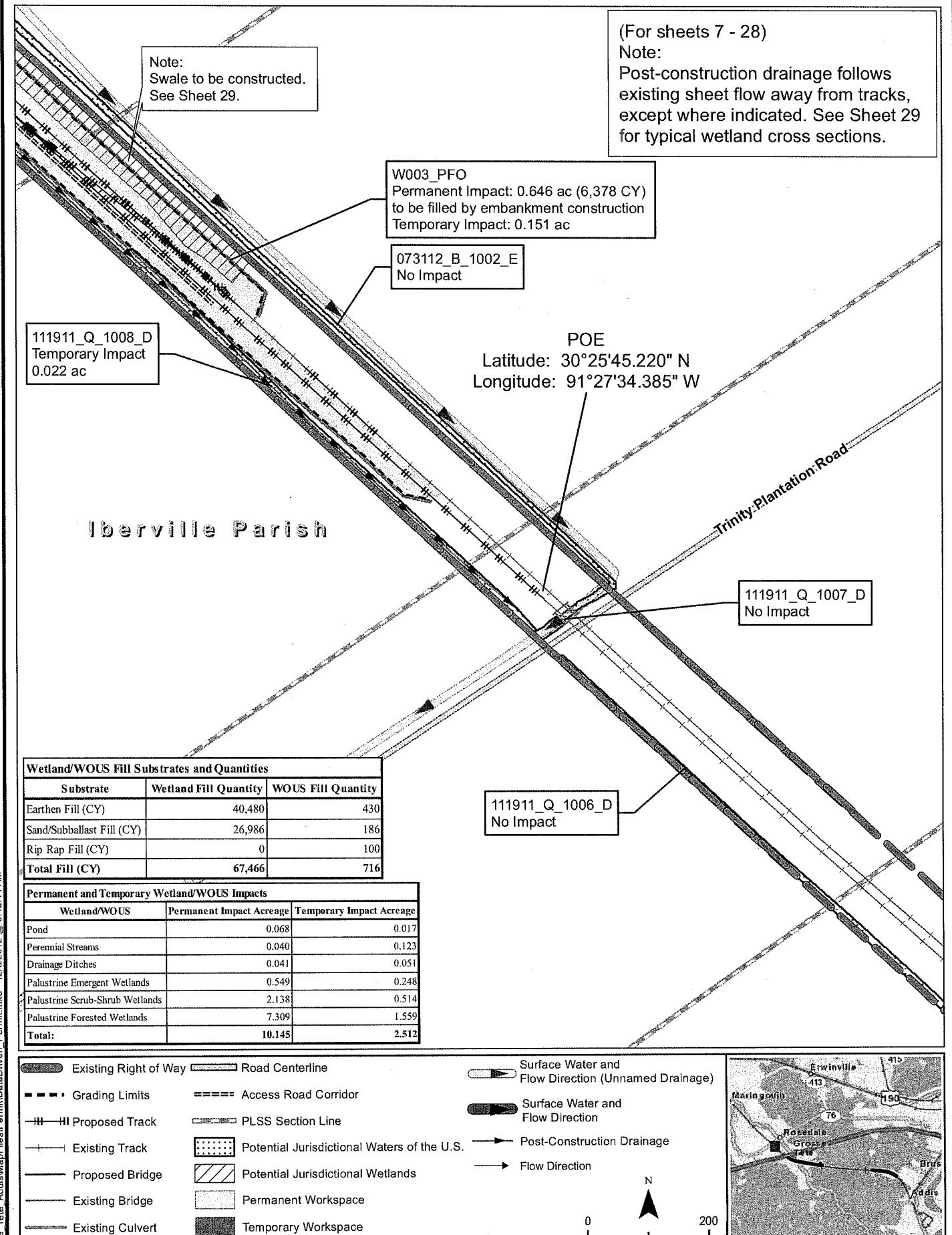
Existing Culvert

Temporary Workspace

Proposed Culvert

December 06, 2012
Union Pacific Railroad
Plan View
Grosse Tete to Addis

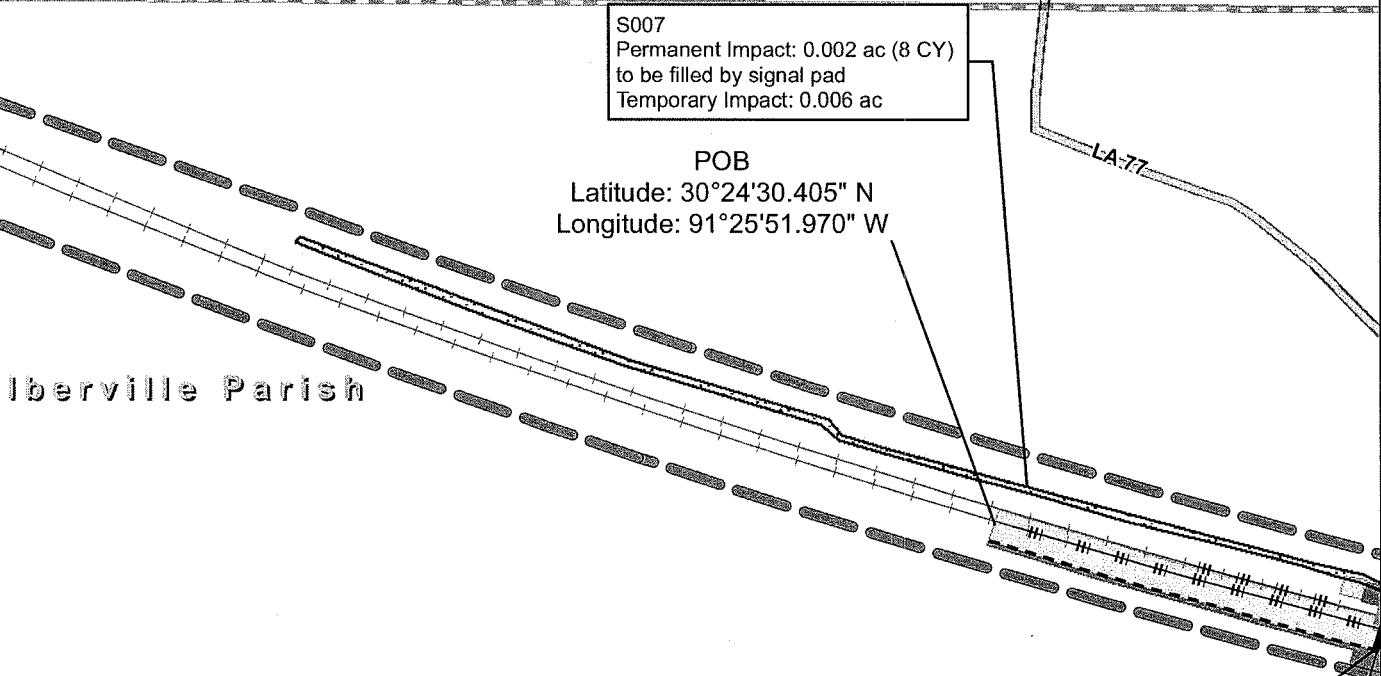




(For sheets 7 - 28)

Note:

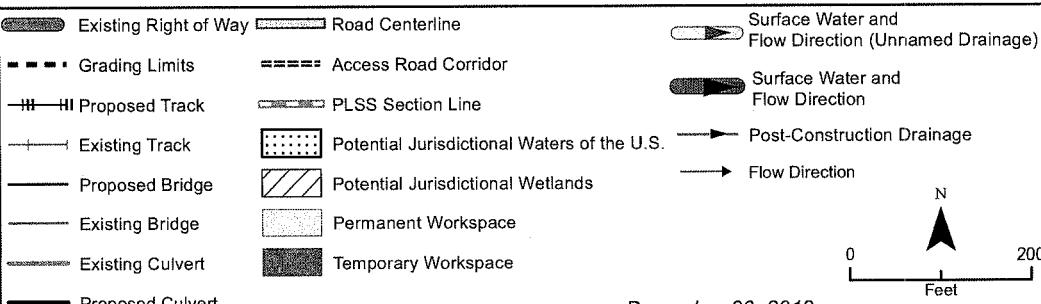
Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

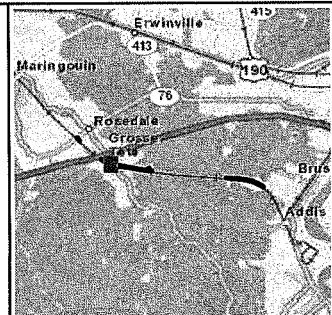
Mile Post 101.35
Culvert Replacement
(See Sheets 30-32)

Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512



December 06, 2012

0
200
1 in = 200 ft



(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

Mile Post 101.35
Culvert Replacement
(See Sheets 30-32)

S007
Permanent Impact: 0.002 ac (8 CY)
to be filled by signal pad
Temporary Impact: 0.006 ac

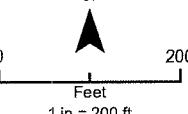
Iberville Parish

Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WO US Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

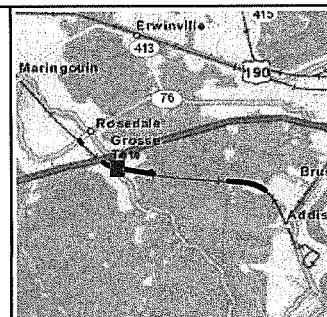
Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

- Existing Right of Way
- Road Centerline
- Grading Limits
- Access Road Corridor
- Proposed Track
- PLSS Section Line
- Existing Track
- Potential Jurisdictional Waters of the U.S.
- Proposed Bridge
- Potential Jurisdictional Wetlands
- Existing Bridge
- Permanent Workspace
- Existing Culvert
- Temporary Workspace
- Proposed Culvert

- Surface Water and Flow Direction (Unnamed Drainage)
- Surface Water and Flow Direction
- Post-Construction Drainage
- Flow Direction



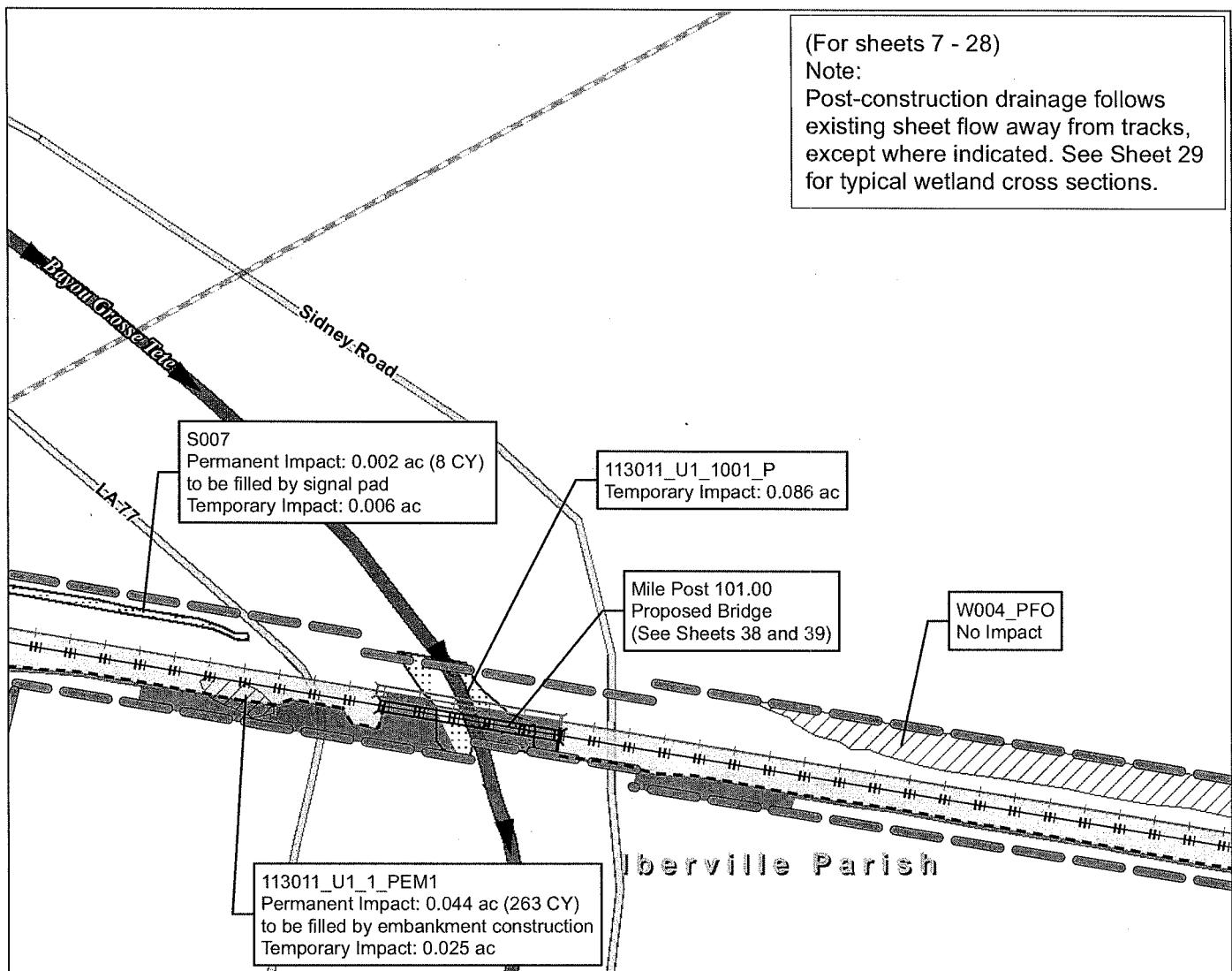
December 6, 2012



(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Existing Right of Way Road Centerline

Grading Limits

Access Road Corridor

Proposed Track

PLSS Section Line

Existing Track

Potential Jurisdictional Waters of the U.S.

Proposed Bridge

Potential Jurisdictional Wetlands

Existing Culvert

Permanent Workspace

Proposed Culvert

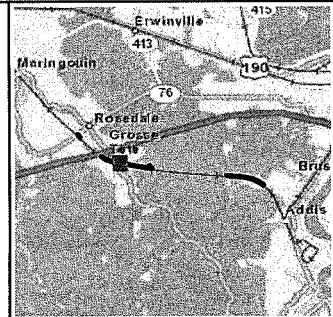
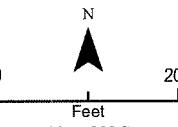
Temporary Workspace

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction



December 6, 2012

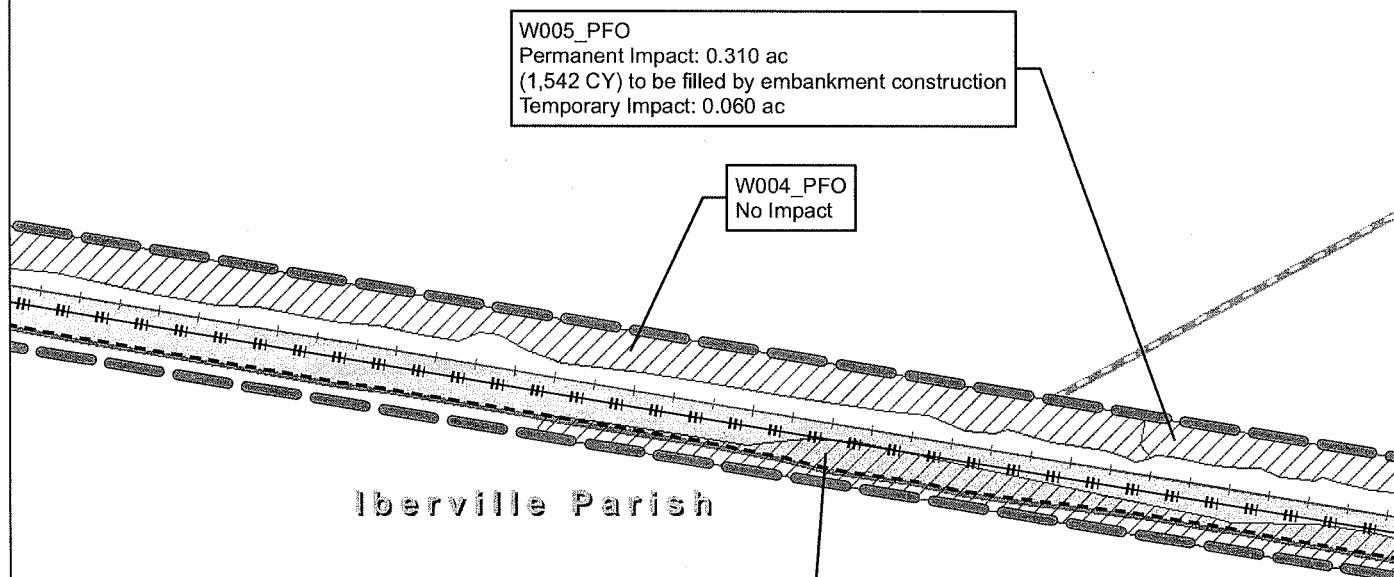
Union Pacific Railroad
Plan View
Grosse Tete to Addis

Figure 1
Sheet 11 of 39

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

050712_S2_1_PFO1

050712_S2_2_PFO1

050712_S2_3_PFO1

Permanent Impact: 1.546 ac (15,277 CY)
to be filled by embankment construction
Temporary Impact: 0.351 ac

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Existing Right of Way Road Centerline

Grading Limits

Proposed Track

Existing Track

Proposed Bridge

Existing Bridge

Proposed Culvert

Access Road Corridor

PLSS Section Line

Potential Jurisdictional Waters of the U.S.

Potential Jurisdictional Wetlands

Permanent Workspace

Temporary Workspace

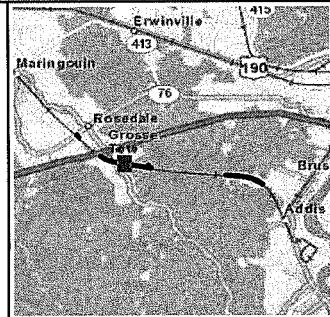
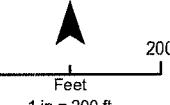
Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction

→

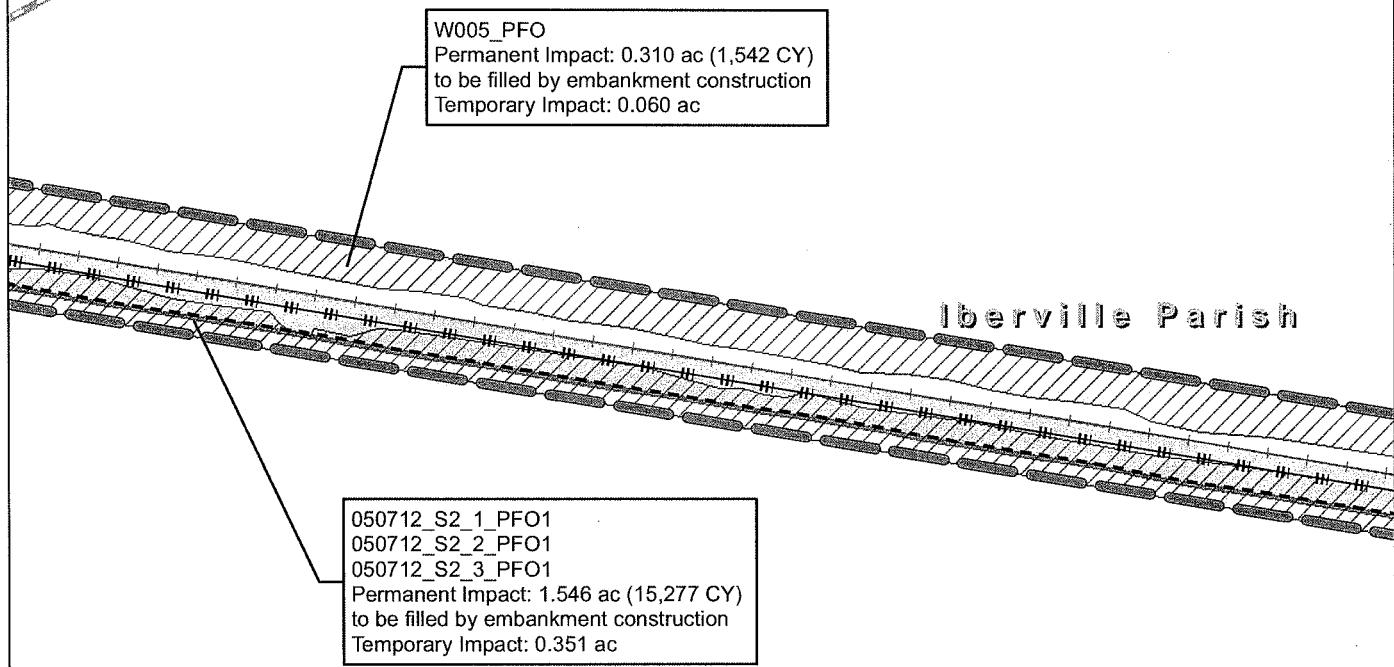


December 06, 2012

(For sheets 7 - 28)

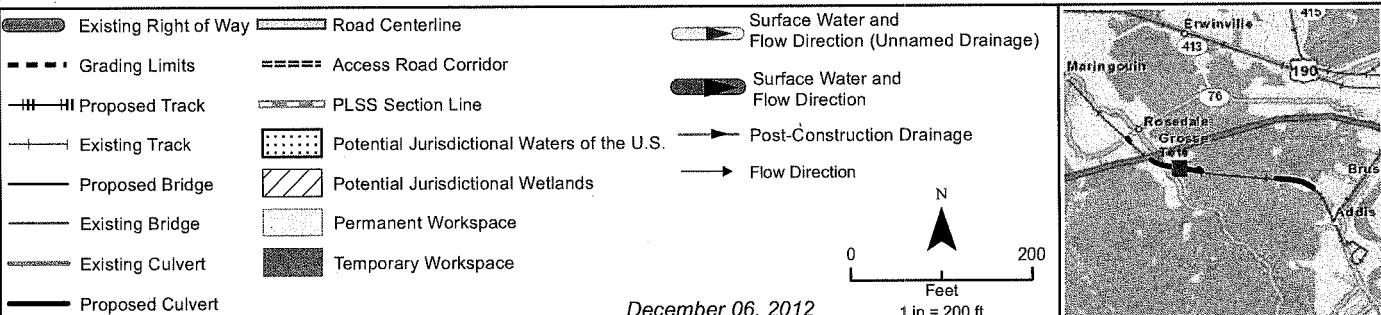
Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

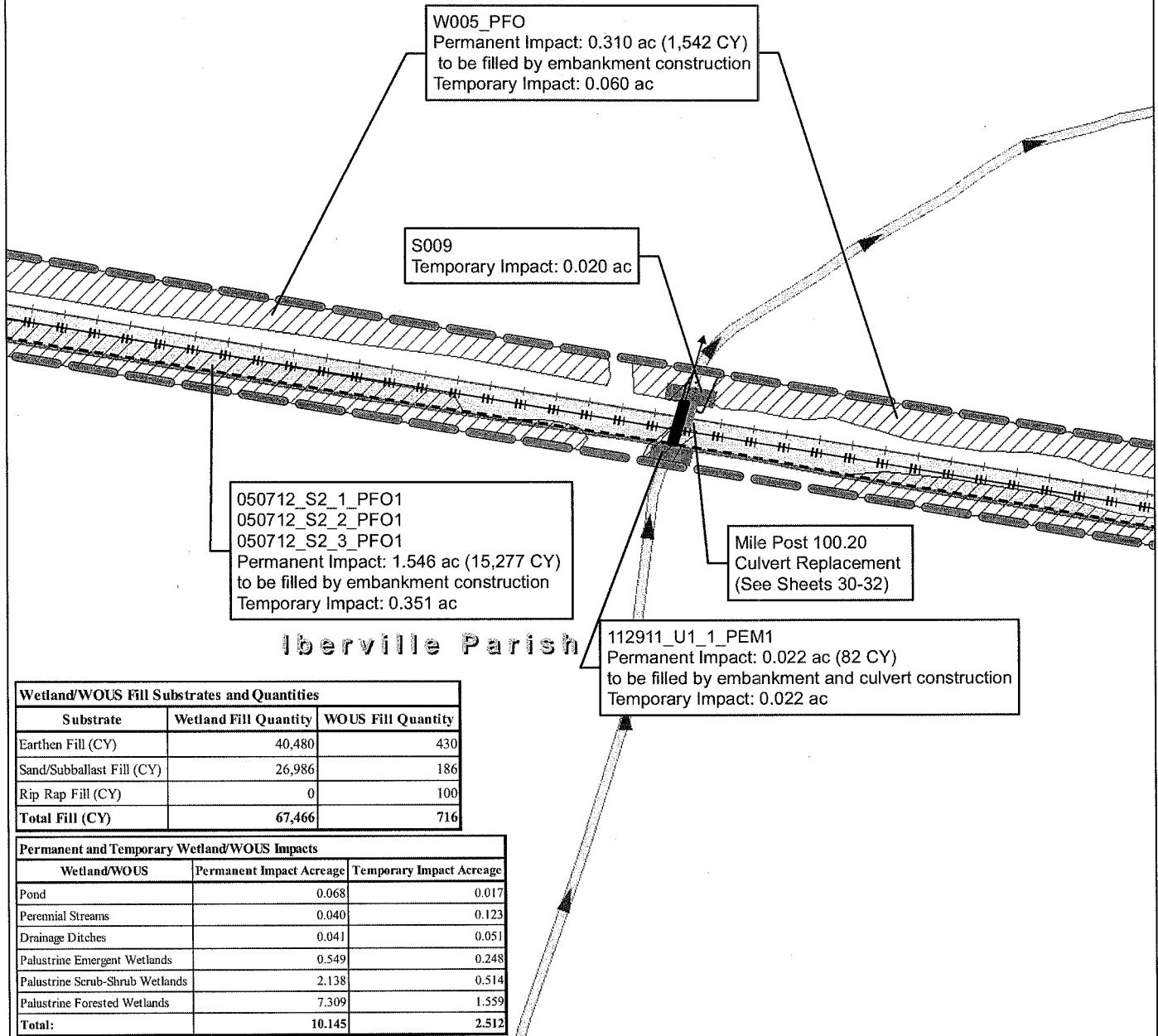
Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512



(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Existing Right of Way

Road Centerline

- - - - - Grading Limits

===== Access Road Corridor

III - III Proposed Track

PLSS Section Line

— Existing Track

■ Potential Jurisdictional Waters of the U.S.

— Proposed Bridge

/ Potential Jurisdictional Wetlands

— Existing Bridge

■ Permanent Workspace

— Existing Culvert

■ Temporary Workspace

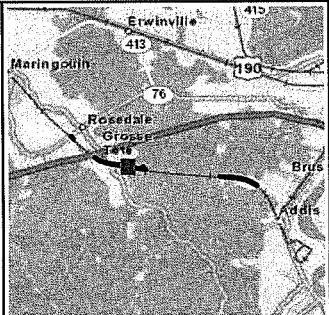
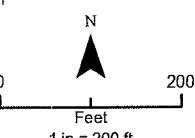
— Proposed Culvert

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

→ Post-Construction Drainage

→ Flow Direction



December 06, 2012

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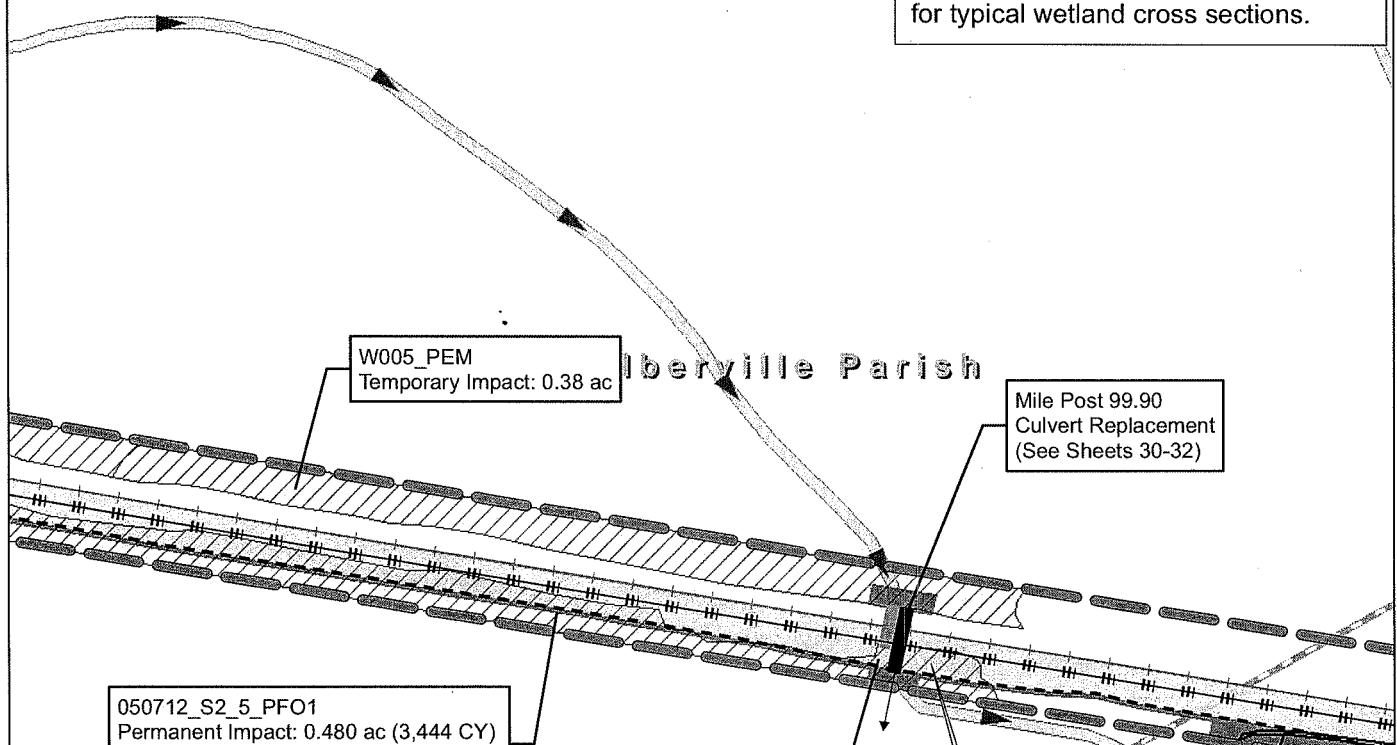
Union Pacific Railroad
Plan View
Grosse Tete to Addis

Figure 1
Sheet 14 of 39

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

112911_U1_1002_D

Permanent Impact: 0.024 ac (125 CY)
to be filled by proposed embankment construction
Temporary Impact: 0.010 ac

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Existing Right of Way Road Centerline

Grading Limits

Proposed Track

Existing Track

Proposed Bridge

Existing Bridge

Existing Culvert

Proposed Culvert

Access Road Corridor

PLSS Section Line

Potential Jurisdictional Waters of the U.S.

Potential Jurisdictional Wetlands

Permanent Workspace

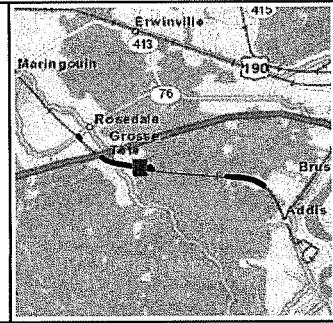
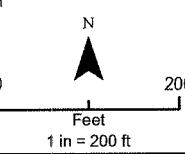
Temporary Workspace

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction



December 06, 2012

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

112911_U1_1002_P
Permanent Impact: 0.040 ac of impact due to
133 CY of excavation and 43 CY of fill
for embankment and bridge construction
Temporary Impact: 0.017 ac

MP 99.71
Proposed Bridge
(See Sheets 38 and 39)

W005_PFO
Permanent Impact: 0.310 ac (1,542 CY)
to be filled by embankment construction
Temporary Impact: 0.060 ac

112911_U1_1002_D
Permanent Impact: 0.024 ac (125 CY)
to be filled by proposed embankment construction
Temporary Impact: 0.010 ac

050812_S2_1_PFO1
Permanent Impact: 0.947 ac (5,812 CY)
to be filled by embankment construction
Temporary Impact: 0.324 ac

Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

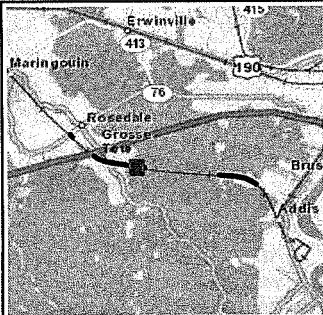
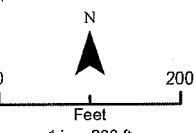
- Existing Right of Way
- Road Centerline
- Grading Limits
- Access Road Corridor
- Proposed Track
- PLSS Section Line
- Existing Track
- Potential Jurisdictional Waters of the U.S.
- Proposed Bridge
- Permanent Workspace
- Existing Culvert
- Temporary Workspace
- Proposed Culvert

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction



December 06, 2012
Union Pacific Railroad
Plan View
Grosse Tete to Addis

Iberville Parish

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

030812_V_4_PFO1
Permanent Impact: 1.539 ac (6,459 CY)
to be filled by access road and culvert construction

030812_V_3_PFO1
Permanent Impact: 0.014 ac of impact due
to 0.03 CY of excavation and 86 CY
of fill for access road
Temporary Impact: 0.004 ac

Access Road
(See Sheet 34)

Access Road
Culvert 1
(See Sheet 35)

030812_V_2_PFO1
Permanent Impact: 0.209 ac of impact
due to 0.04 CY of excavation and 1,040 CY
of fill for access road, culvert and embankment construction
Temporary: 0.059 ac

W005_PFO
Permanent Impact: 0.310 ac (1,542 CY)
to be filled by embankment construction
Temporary Impact: 0.060 ac

West
Baton Rouge
Parish

Note:
Swale to be constructed.
See Sheet 29.

Note:
Swale to be constructed.
See Sheet 29.

Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

050812_S2_2_PFO1
Permanent Impact: 0.840 ac (5,153 CY)
to be filled by embankment construction
Temporary Impact: 0.105 ac

050812_S2_1_PFO1
Permanent Impact: 0.947 ac (5,812 CY)
to be filled by embankment construction
Temporary Impact: 0.324 ac

W005_PFO
Permanent Impact: 0.310 ac (1,542 CY)
to be filled by embankment construction
Temporary Impact: 0.060 ac

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Existing Right of Way Road Centerline

Grading Limits

Access Road Corridor

Proposed Track

PLSS Section Line

Existing Track

Potential Jurisdictional Waters of the U.S.

Proposed Bridge

Potential Jurisdictional Wetlands

Existing Bridge

Permanent Workspace

Existing Culvert

Temporary Workspace

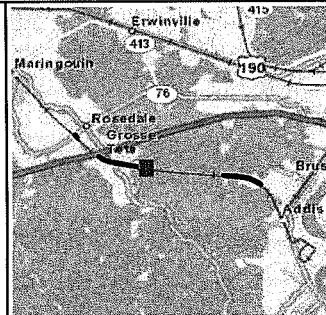
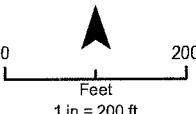
Proposed Culvert

Surface Water and
Flow Direction (Unnamed Drainage)

Surface Water and
Flow Direction

Post-Construction Drainage

Flow Direction



December 06, 2012

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

POE

Latitude: 30°24'6.921" N
Longitude: 91°23'33.507" W

West Baton Rouge Parish

W005_PFO
Permanent Impact: 0.310 ac (1,542 CY)
to be filled by embankment construction
Temporary Impact: 0.060 ac

050812_S2_2_PFO1
Permanent Impact: 0.840 ac (5,153 CY)
to be filled by embankment construction
Temporary Impact: 0.105 ac

112911_U1_1003_P
No Impact

112911_U1_7_PFO1
No Impact

Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Existing Right of Way Road Centerline

Grading Limits

Proposed Track

Existing Track

Proposed Bridge

Existing Bridge

Existing Culvert

Proposed Culvert

Access Road Corridor

PLSS Section Line

Potential Jurisdictional Waters of the U.S.

Potential Jurisdictional Wetlands

Permanent Workspace

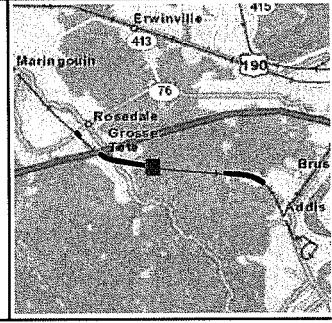
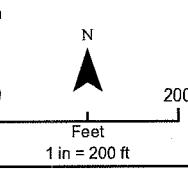
Temporary Workspace

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction



Union Pacific Railroad
Plan View
Grosse Tete to Addis

Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Iberville Parish

West Baton Rouge Parish

Access Road
Culvert 1
(See Sheet 35)

030812_V_3_PFO1
Permanent Impact: 0.014 ac of impact due
to 0.03 CY of excavation and 86 CY
of fill for access road
Temporary Impact: 0.004 ac

W005_PFO
Permanent Impact: 0.310 ac (1,542 CY)
to be filled by embankment construction
Temporary Impact: 0.060 ac

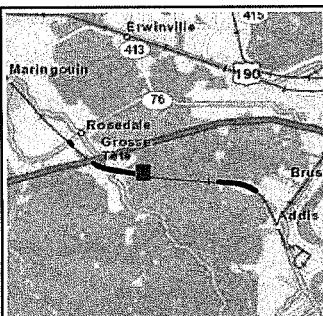
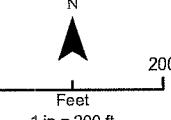
Note:
Swale to be constructed.
See Sheet 29.

POE
Latitude: 30°24'6.921" N
Longitude: 91°23'33.507" W

- Existing Right of Way
- Road Centerline
- - - Grading Limits
- ==== Access Road Corridor
- HI Proposed Track
- Existing Track
- Proposed Bridge
- Existing Bridge
- Existing Culvert
- Proposed Culvert

- Surface Water and Flow Direction (Unnamed Drainage)
- Surface Water and Flow Direction
- Potential Jurisdictional Waters of the U.S.
- Potential Jurisdictional Wetlands
- Permanent Workspace
- Temporary Workspace

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Union Pacific Railroad
Plan View
Grosse Tete to Addis

Figure 1
Sheet 19 of 39

Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

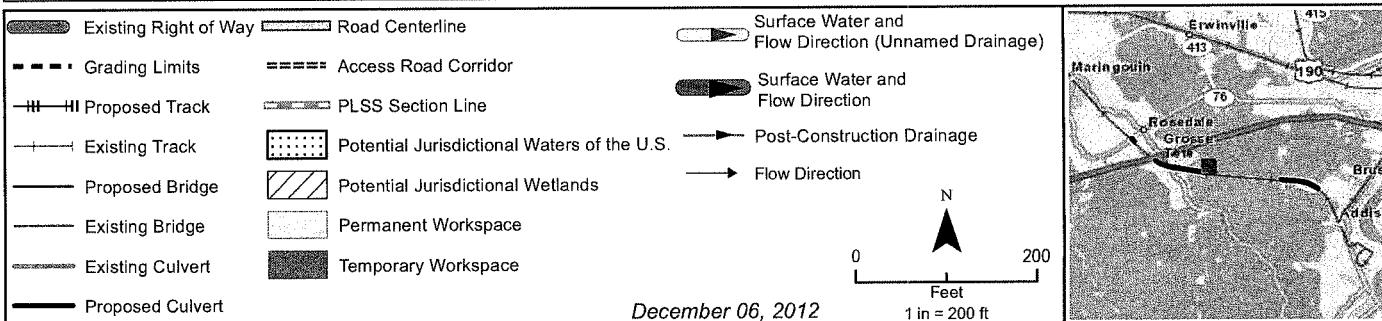
Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

030812_V_4_PFO1
Permanent Impact: 1.539 ac (6,459 CY)
to be filled by access road and culvert construction

West Baton Rouge Parish

Access Road
Culvert 2
(See Sheet 35)

Access Road
(See Sheet 34)



(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.

POB

Latitude: 30°23'42.369" N
Longitude: 91°19'21.116" W

W002_PFO
Permanent Impact: 0.029 ac (40 CY)
to be filled by signal pad construction
Temporary Impact: 0.039 ac

W002_PEM2
No Impact

Mile Post 94.98
Culvert Replacement
(See Sheets 30-32)

Access Road
(See Sheet 33)

120111_R_2_PFO1
Permanent Impact: 0.567 ac (3,204 CY)
to be filled by embankment construction
Temporary Impact: 0.186 ac

Note:
Swale to be constructed.
See Sheet 29.

West Baton Rouge Parish

Wetland/WOUS Fill Substrates and Quantities

Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Permanent and Temporary Wetland/WOUS Impacts

Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

Existing Right of Way Road Centerline

----- Grading Limits

===== Access Road Corridor

--- Proposed Track

---- PLSS Section Line

-+ Existing Track

[dotted] Potential Jurisdictional Waters of the U.S.

— Proposed Bridge

/\ Potential Jurisdictional Wetlands

— Existing Bridge

[solid grey] Permanent Workspace

— Existing Culvert

[dark grey] Temporary Workspace

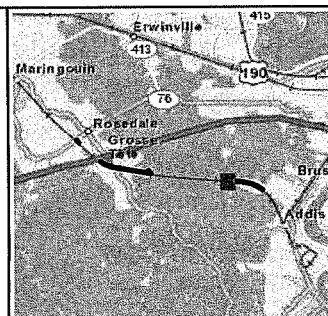
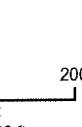
— Proposed Culvert

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

→ Post-Construction Drainage

→ Flow Direction



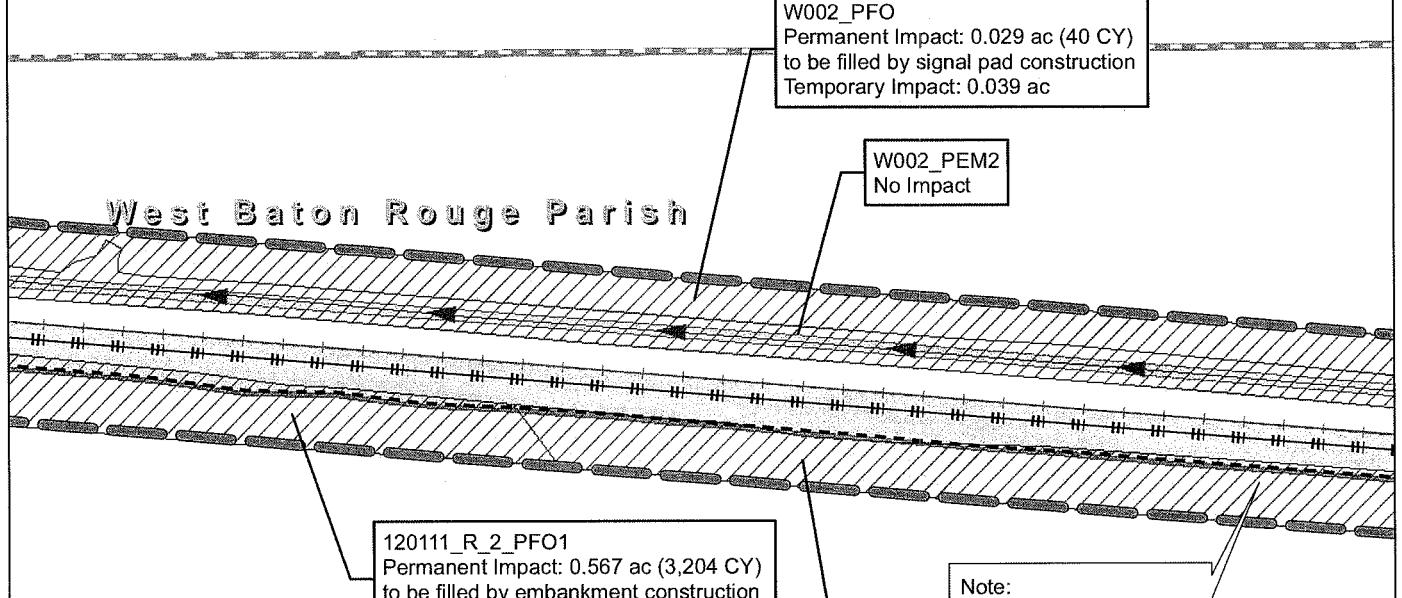
December 06, 2012

Figure 1
Sheet 21 of 39

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

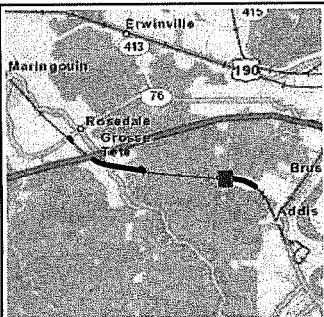
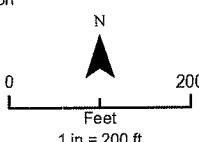
- Existing Right of Way ■ Road Centerline
- Grading Limits
- Proposed Track
- Existing Track
- Proposed Bridge
- Existing Bridge
- Existing Culvert
- Proposed Culvert
- Access Road Corridor
- PLSS Section Line
- Potential Jurisdictional Waters of the U.S.
- Potential Jurisdictional Wetlands
- Permanent Workspace
- Temporary Workspace

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction

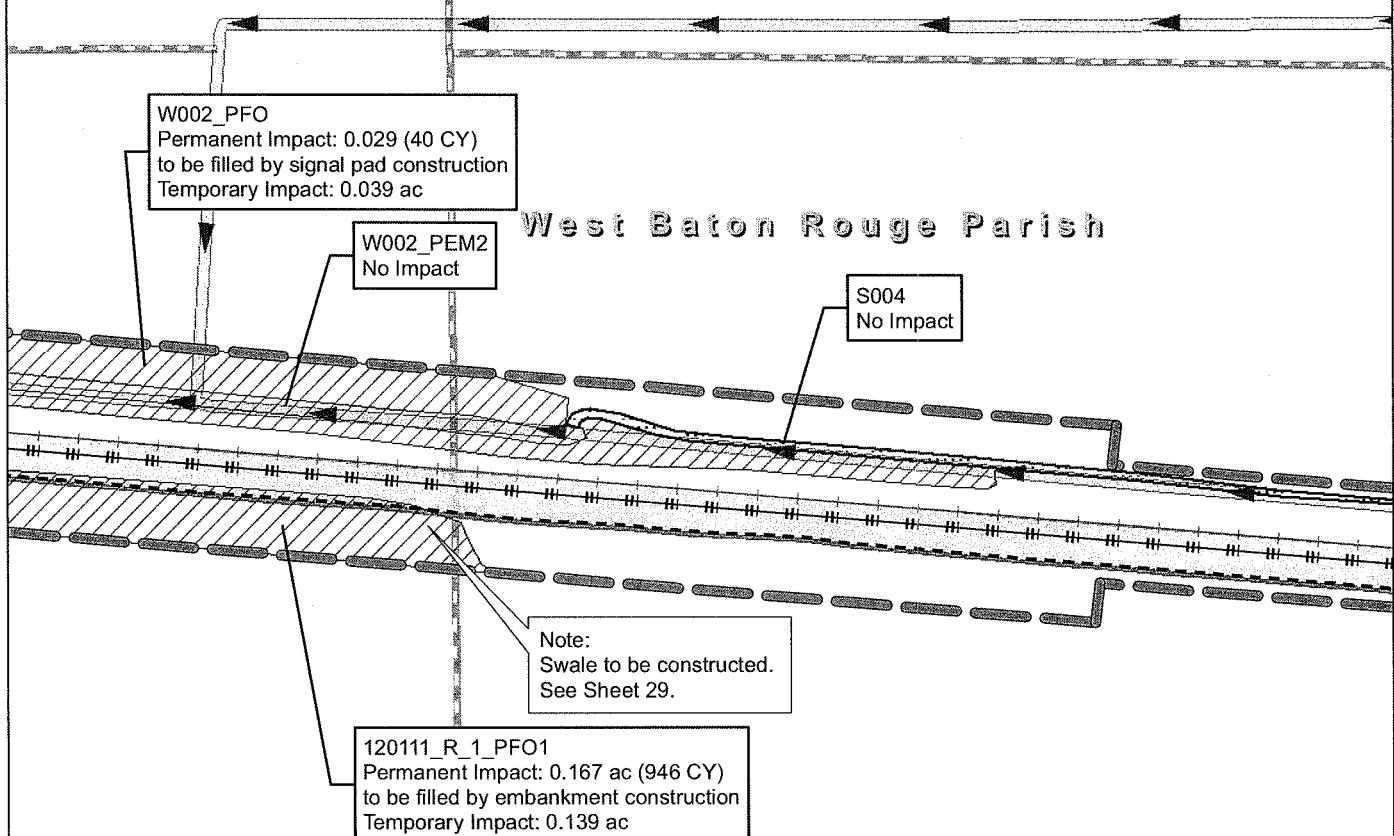


December 06, 2012
Union Pacific Railroad
Plan View
Grosse Tete to Addis

(For sheets 7 - 28)

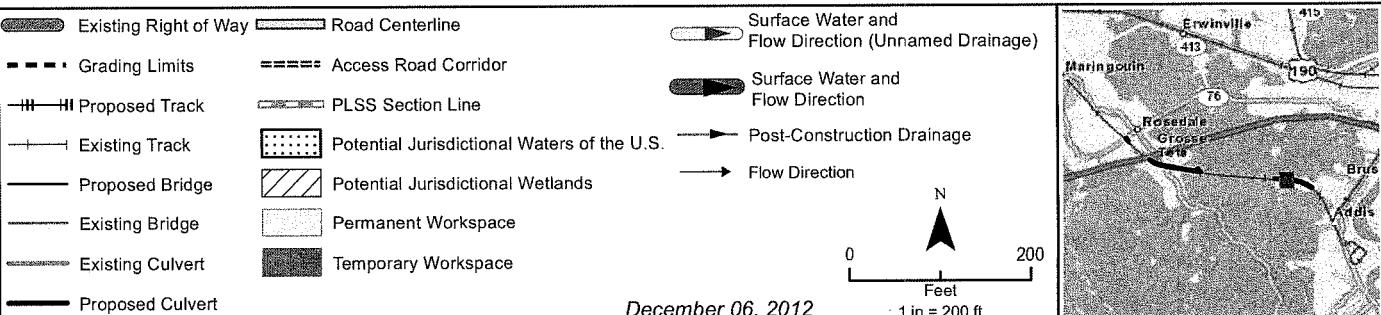
Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

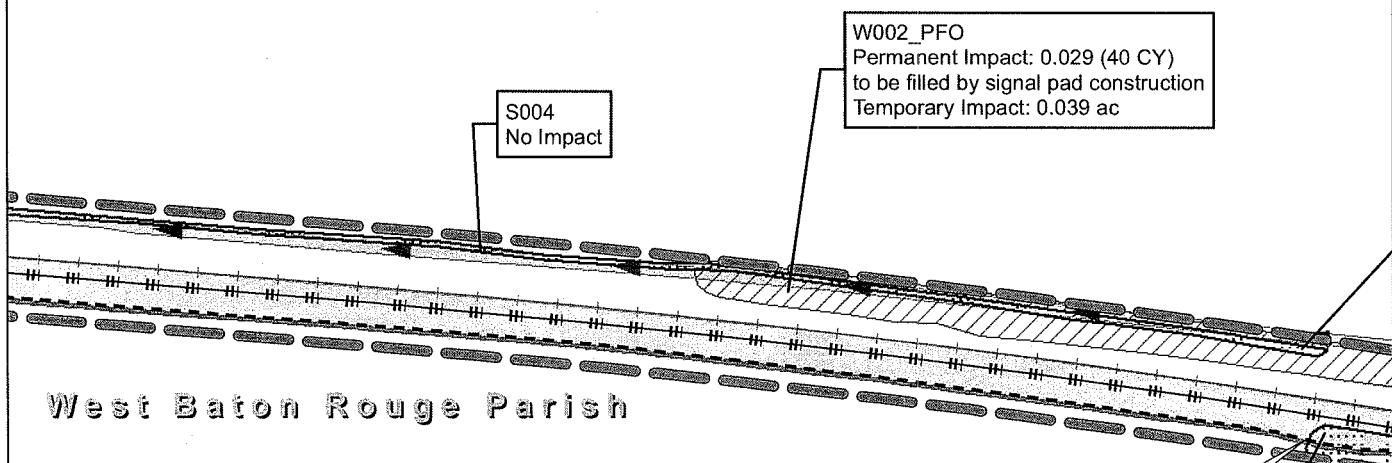
Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512



(For sheets 7 - 28)

Note:

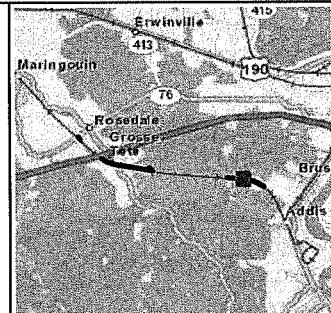
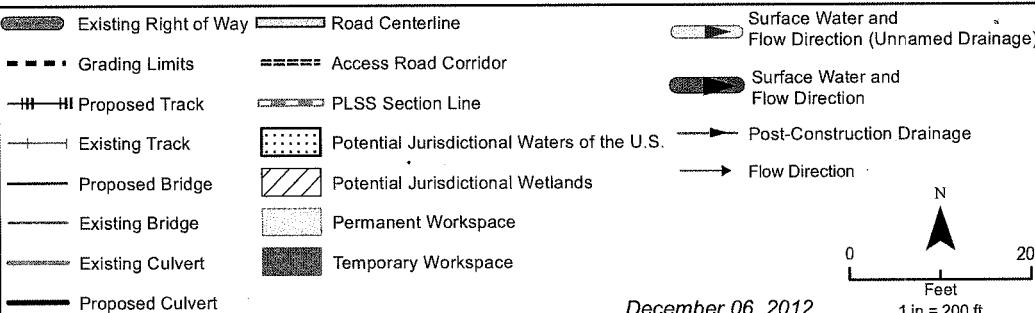
Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

120111_R_1001_Pond
Permanent Impact: 0.068 ac (512 CY)
to be filled by embankment construction
Temporary Impact: 0.017 ac

Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

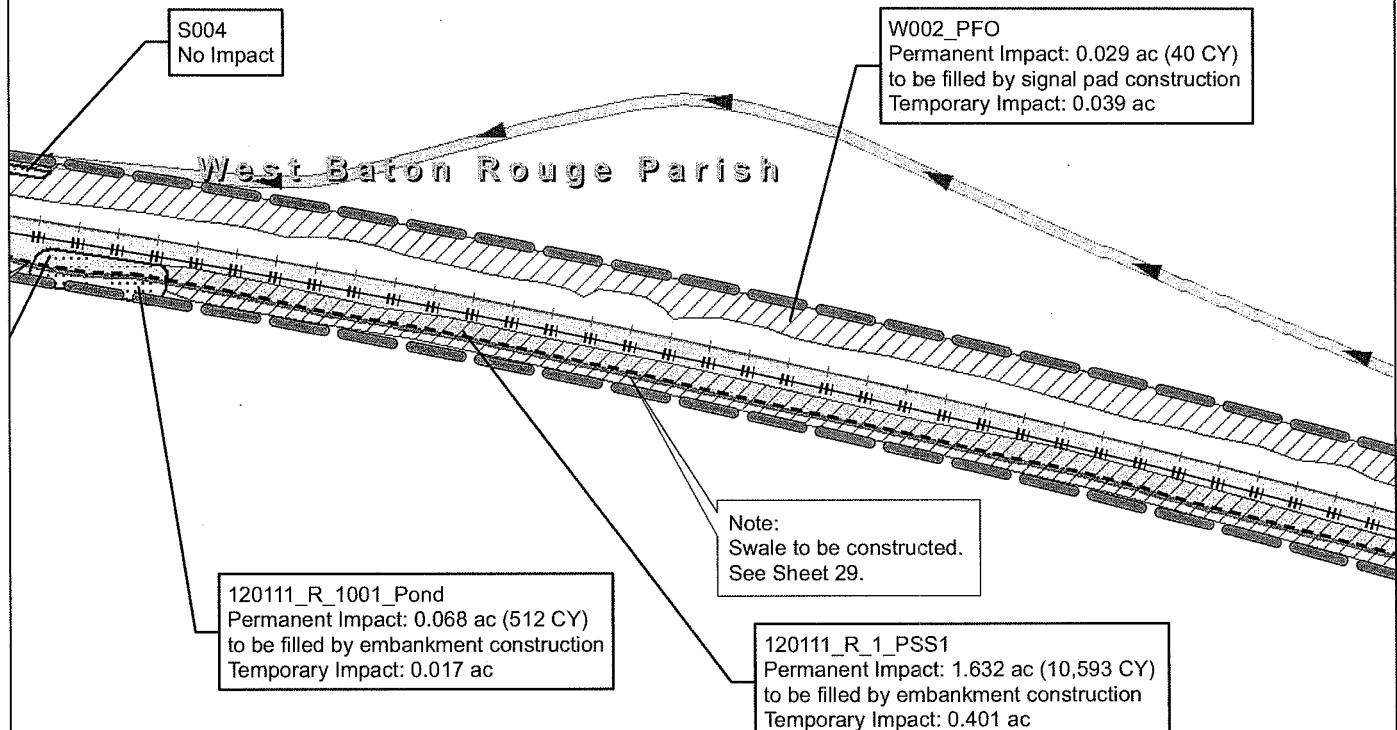


December 06, 2012
Union Pacific Railroad
Plan View
Grosse Tete to Addis

(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

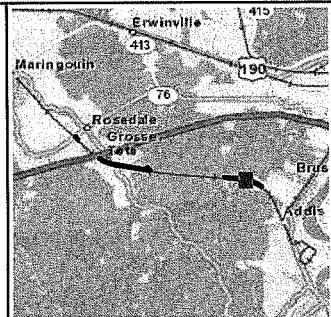
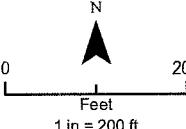
- Existing Right of Way ■ Road Centerline
- Grading Limits
- Proposed Track
- Existing Track
- Proposed Bridge
- Existing Bridge
- Existing Culvert
- Proposed Culvert
- Access Road Corridor
- PLSS Section Line
- Potential Jurisdictional Waters of the U.S.
- Potential Jurisdictional Wetlands
- Permanent Workspace
- Temporary Workspace

Surface Water and Flow Direction (Unnamed Drainage)

Surface Water and Flow Direction

Post-Construction Drainage

Flow Direction



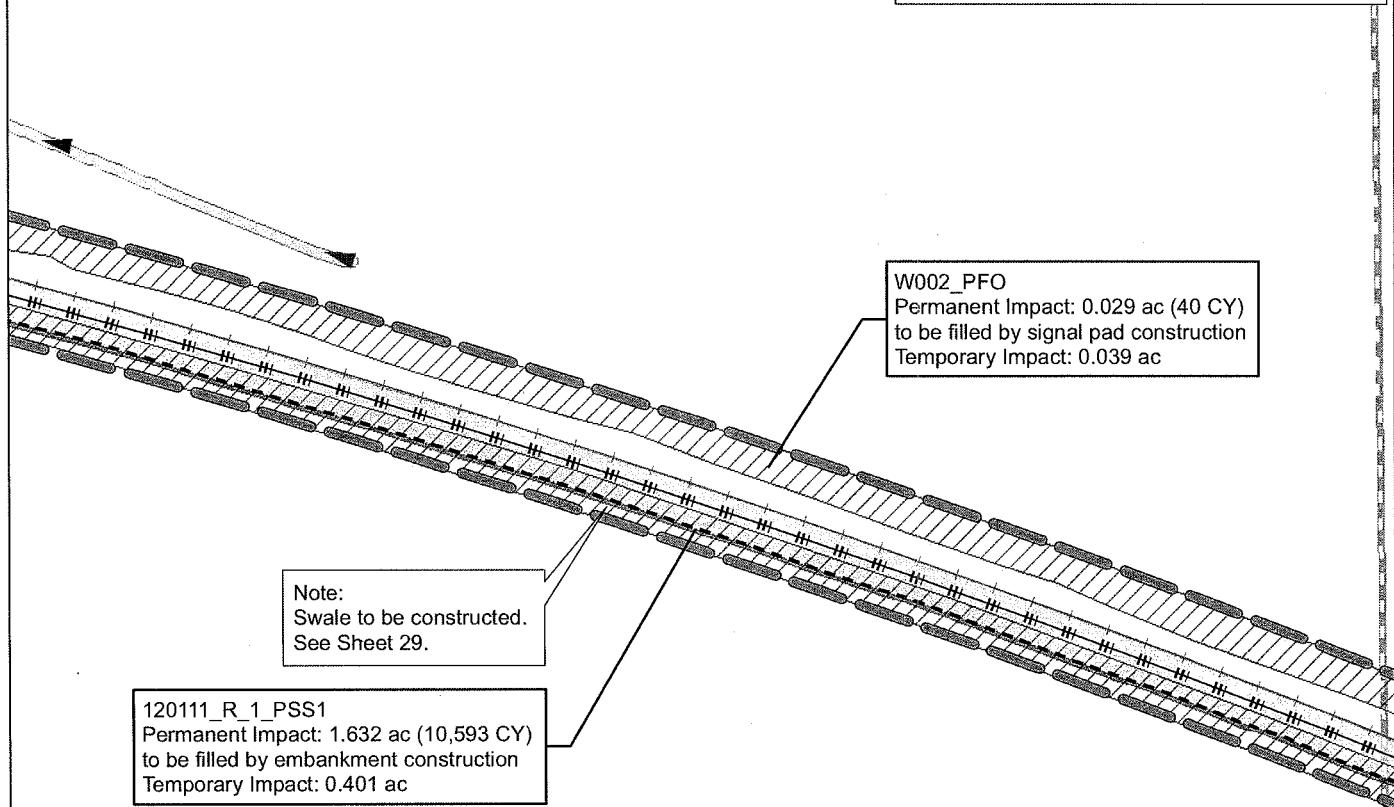
December 06, 2012

Union Pacific Railroad
Plan View
Grosse Tete to Addis

(For sheets 7 - 28)

Note:

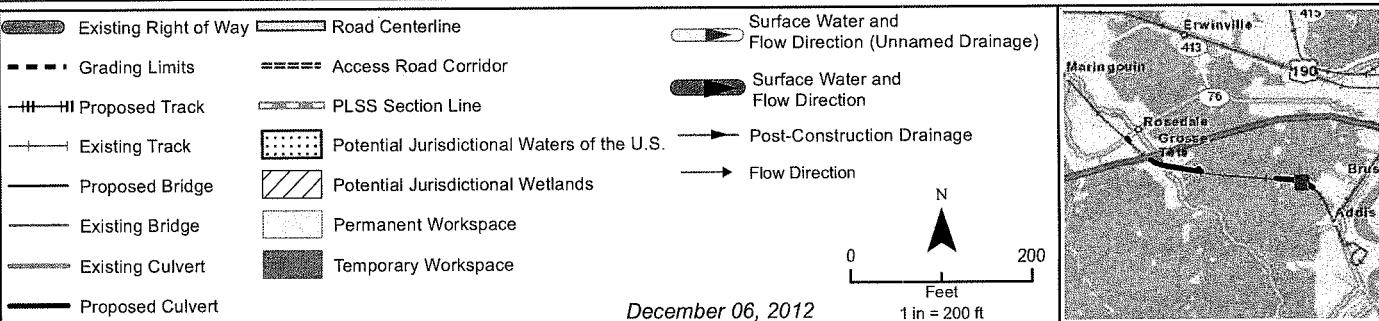
Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



West Baton Rouge Parish

Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

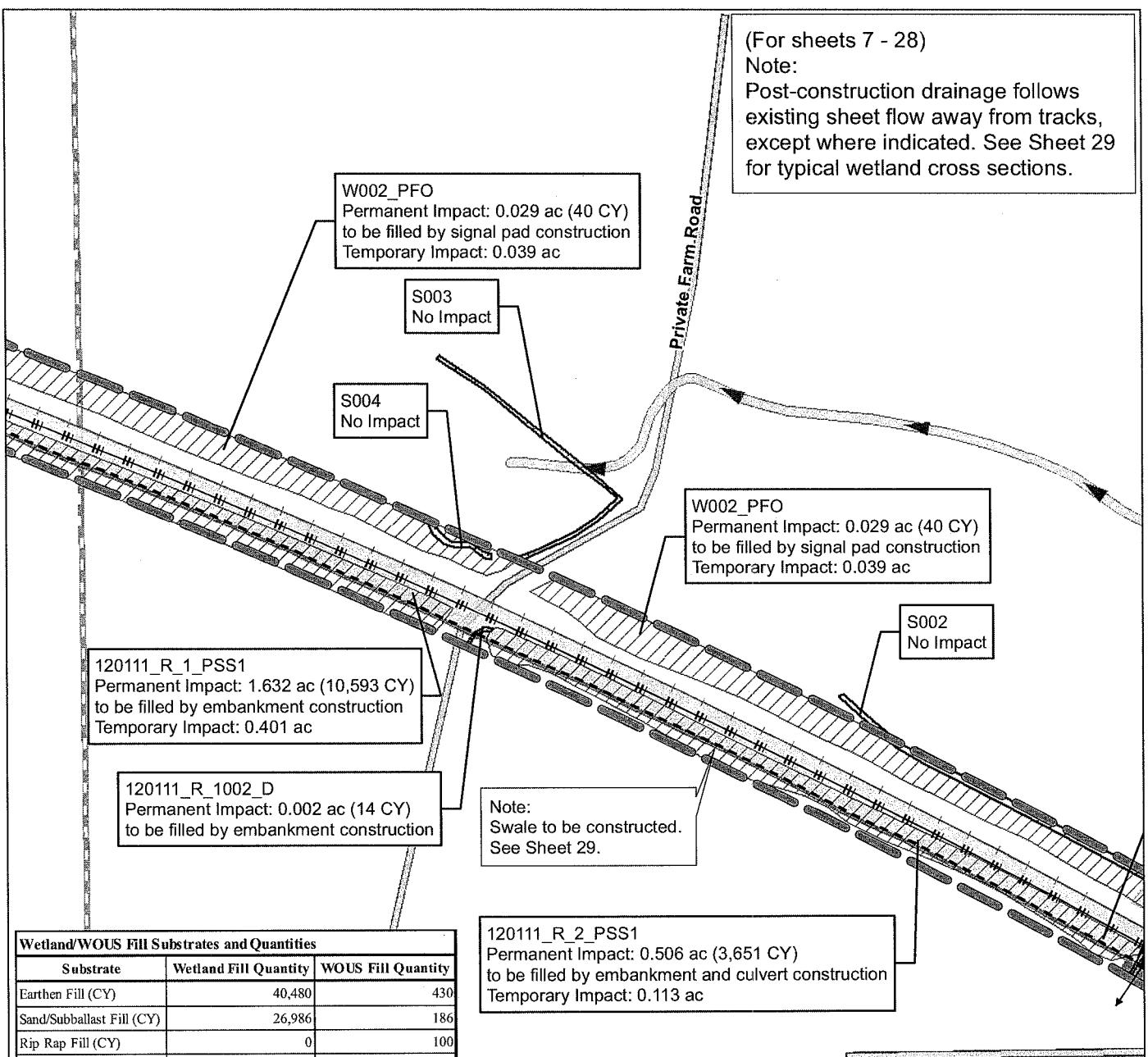
Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512



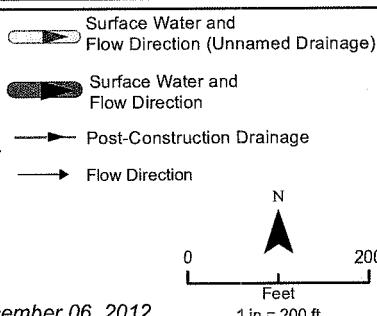
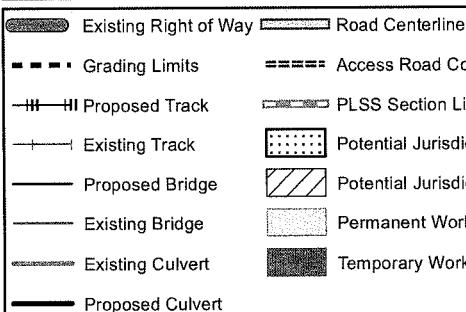
(For sheets 7 - 28)

Note:

Post-construction drainage follows existing sheet flow away from tracks, except where indicated. See Sheet 29 for typical wetland cross sections.



Baton Rouge Parish

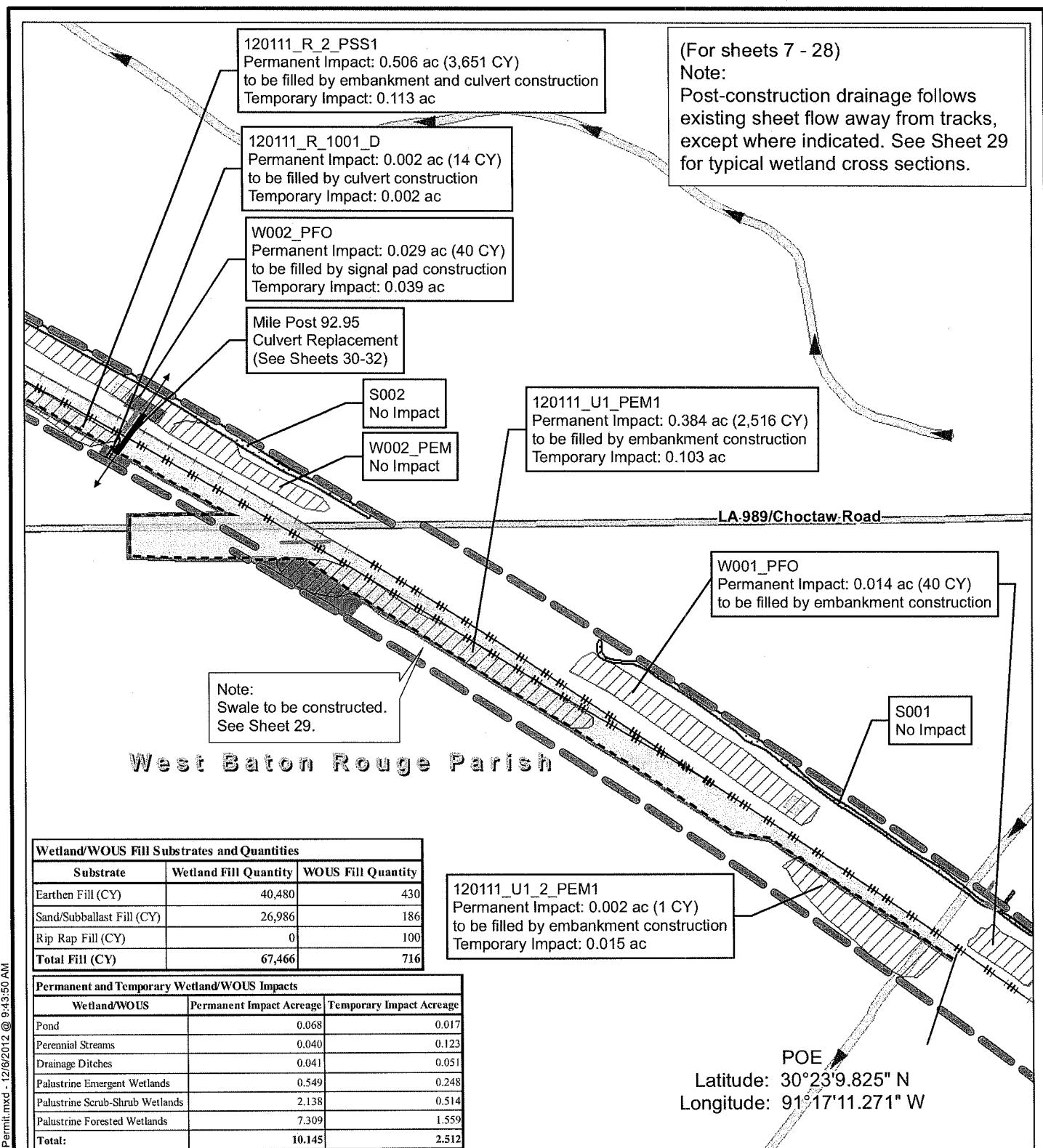


December 06, 2012

Union Pacific Railroad
Plan View
Grosse Tete to Addis

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Figure 1
Sheet 27 of 39



Wetland/WOUS Fill Substrates and Quantities		
Substrate	Wetland Fill Quantity	WOUS Fill Quantity
Earthen Fill (CY)	40,480	430
Sand/Subballast Fill (CY)	26,986	186
Rip Rap Fill (CY)	0	100
Total Fill (CY)	67,466	716

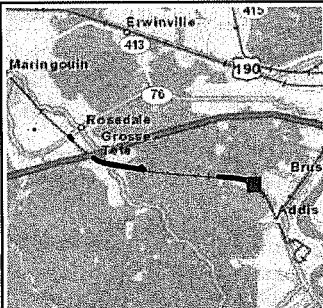
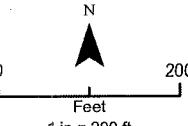
120111_U1_2_PEM1
Permanent Impact: 0.002 ac (1 CY)
to be filled by embankment construction
Temporary Impact: 0.015 ac

POE
Latitude: 30°23'9.825" N
Longitude: 91°17'11.271" W

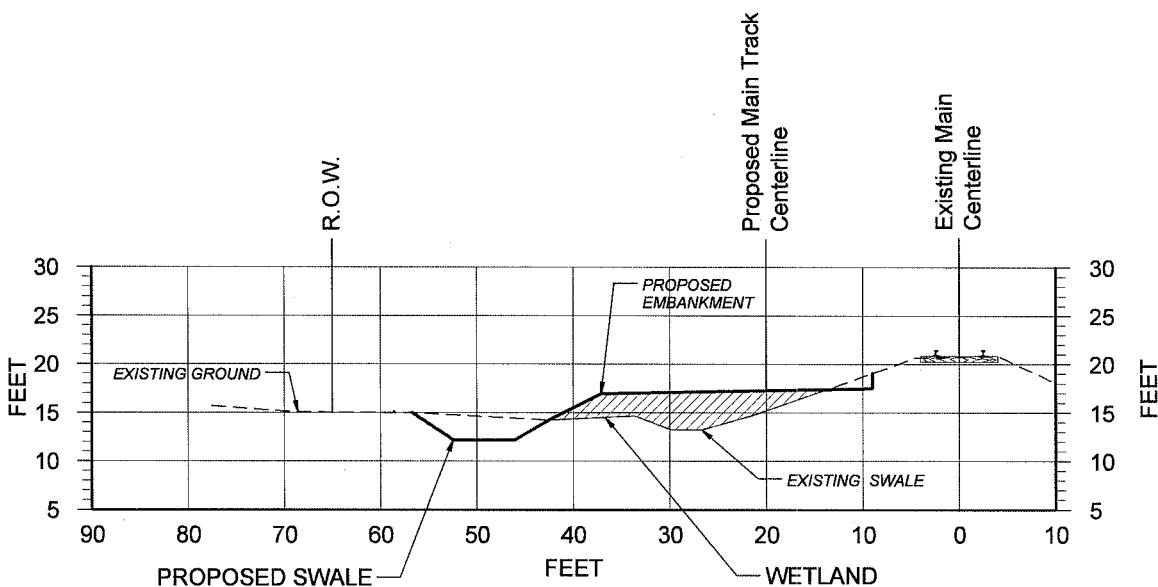
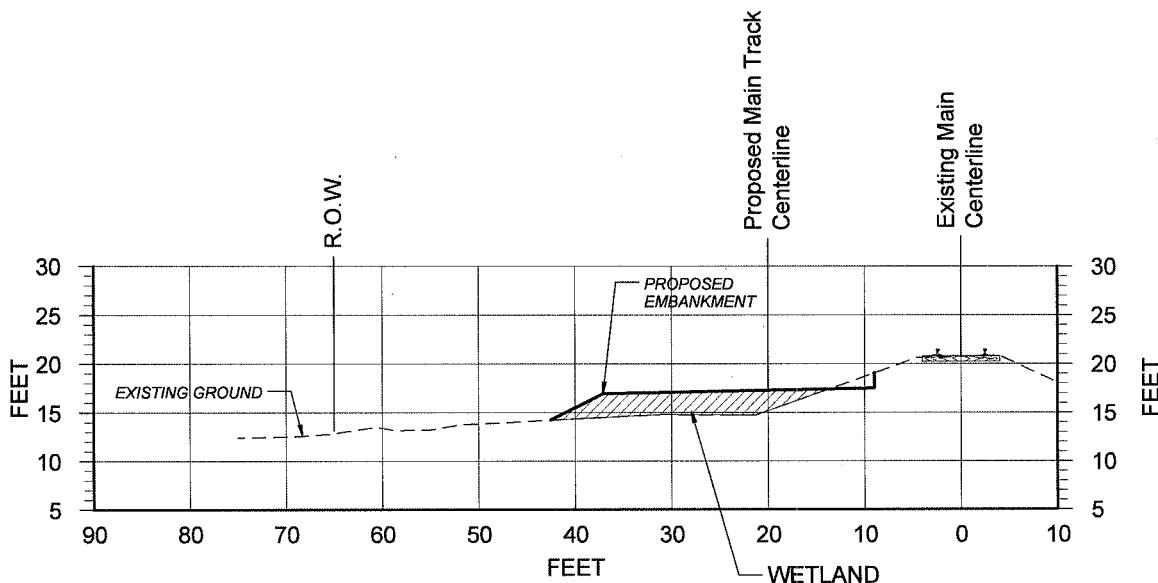
Permanent and Temporary Wetland/WOUS Impacts		
Wetland/WOUS	Permanent Impact Acreage	Temporary Impact Acreage
Pond	0.068	0.017
Perennial Streams	0.040	0.123
Drainage Ditches	0.041	0.051
Palustrine Emergent Wetlands	0.549	0.248
Palustrine Scrub-Shrub Wetlands	2.138	0.514
Palustrine Forested Wetlands	7.309	1.559
Total:	10.145	2.512

- Existing Right of Way
- Road Centerline
- - - Grading Limits
- Proposed Track
- Existing Track
- Proposed Bridge
- Existing Bridge
- Existing Culvert
- Proposed Culvert
- PLSS Section Line
- Potential Jurisdictional Waters of the U.S.
- Potential Jurisdictional Wetlands
- Permanent Workspace
- Temporary Workspace

- Surface Water and Flow Direction (Unnamed Drainage)
- Surface Water and Flow Direction
- Post-Construction Drainage
- Flow Direction



December 06, 2012
Union Pacific Railroad
Plan View
Grosse Tete to Addis

TYPICAL EMBANKMENT SECTION - SWALE REQUIREDTYPICAL EMBANKMENT SECTION - SWALE NOT REQUIREDPOST-CONSTRUCTION DRAINAGE FLOW CASES.

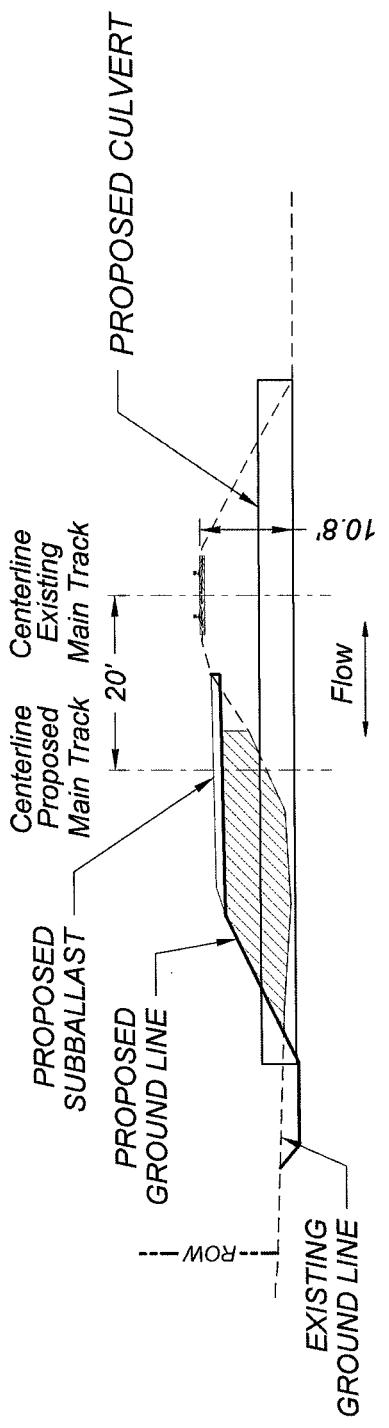
- EXISTING SHEETFLOW AWAY FROM TRACKS WITH NO EXISTING SWALE:**
PROPOSED EMBANKMENT PROVIDES SHEET FLOW AWAY FROM TRACKS MATCHING EXISTING DRAINAGE CONDITION. NO SWALE REQUIRED PER HYDROLOGY AND HYDRAULICS ANALYSIS.
- PROPOSED GRADING IMPACTING EXISTING SWALE**
PROPOSED EMBANKMENT LOCATED WITHIN LIMITS OF EXISTING SWALE REQUIRES PROPOSED SWALE TO BE RELOCATED ALONG THE OUTSIDE OF PROPOSED EMBANKMENT SLOPE. PROPOSED SWALE SIZED ACCORDING TO CALCULATIONS PER HYDROLOGY AND HYDRAULICS ANALYSIS.

**UNION PACIFIC RAILROAD**

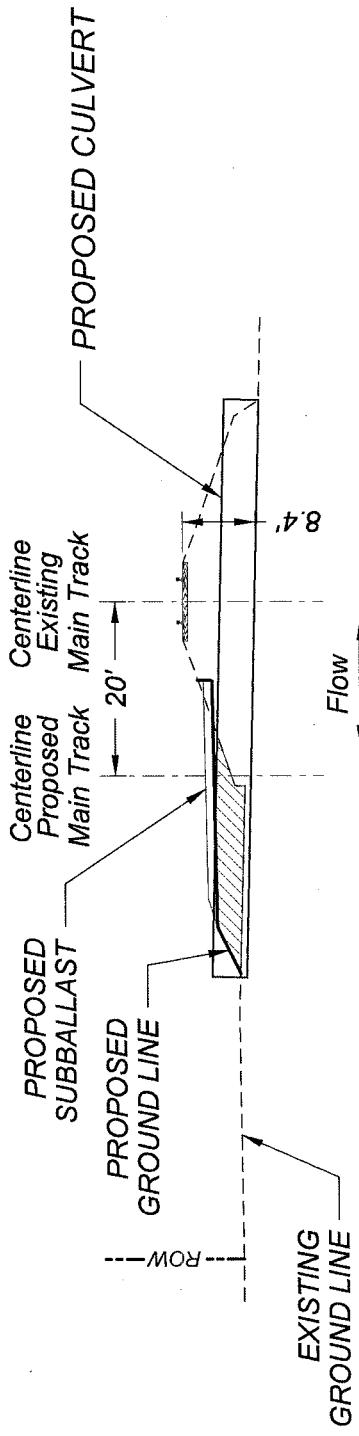
Office of AVP Engineering Design/Construction

GROSSE TETE TO ADDIS

TYPICAL CROSS SECTIONS
TYPICAL WETLANDS



SECTION



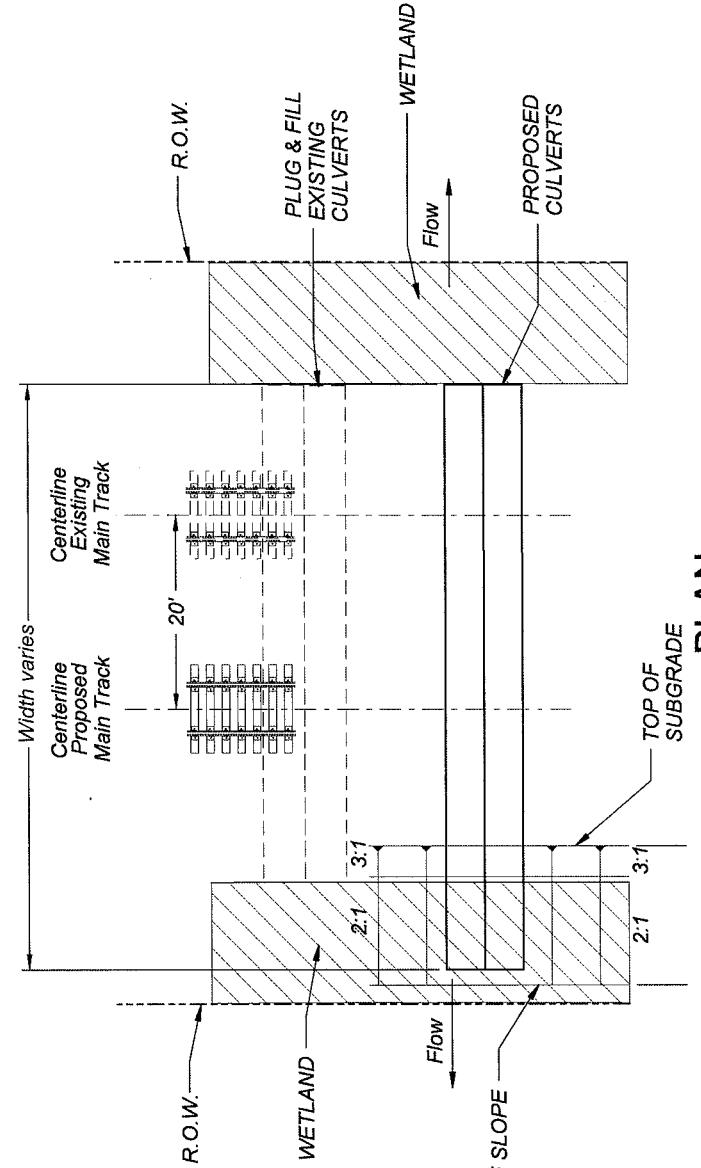
SECTION

UNION PACIFIC RAILROAD
Office of AVP Engineering Design/Construction

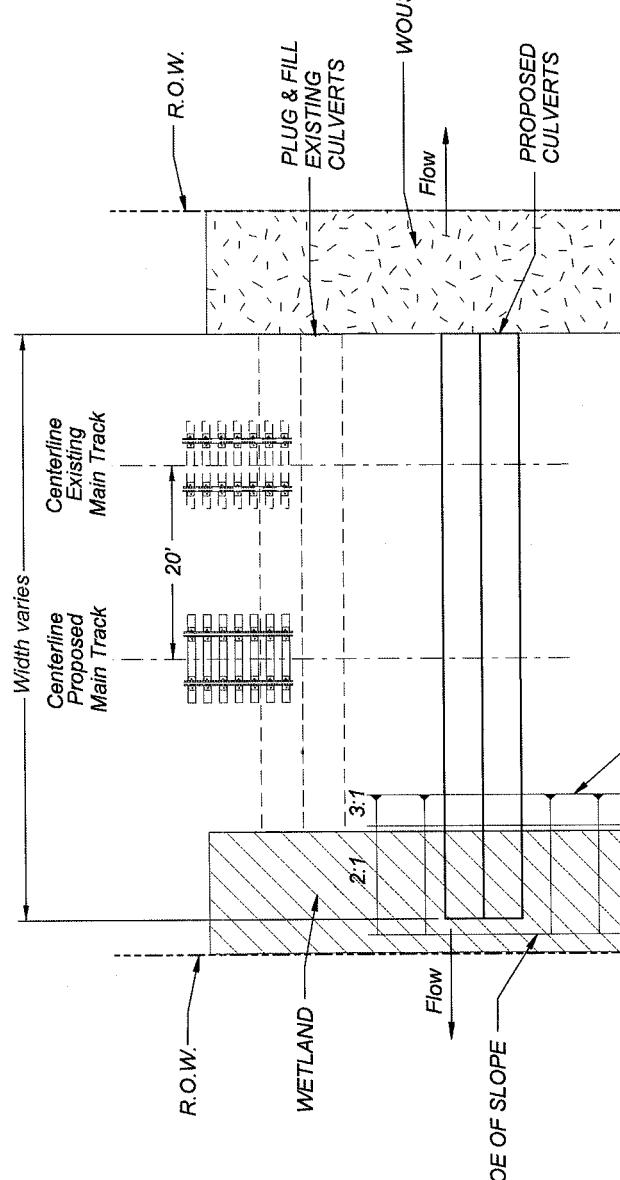
GROSSE TETE TO ADDIS

CROSS SECTIONS
TYPICAL CULVERT REPLACEMENT
SHEET 30 of 39

November 30, 2012

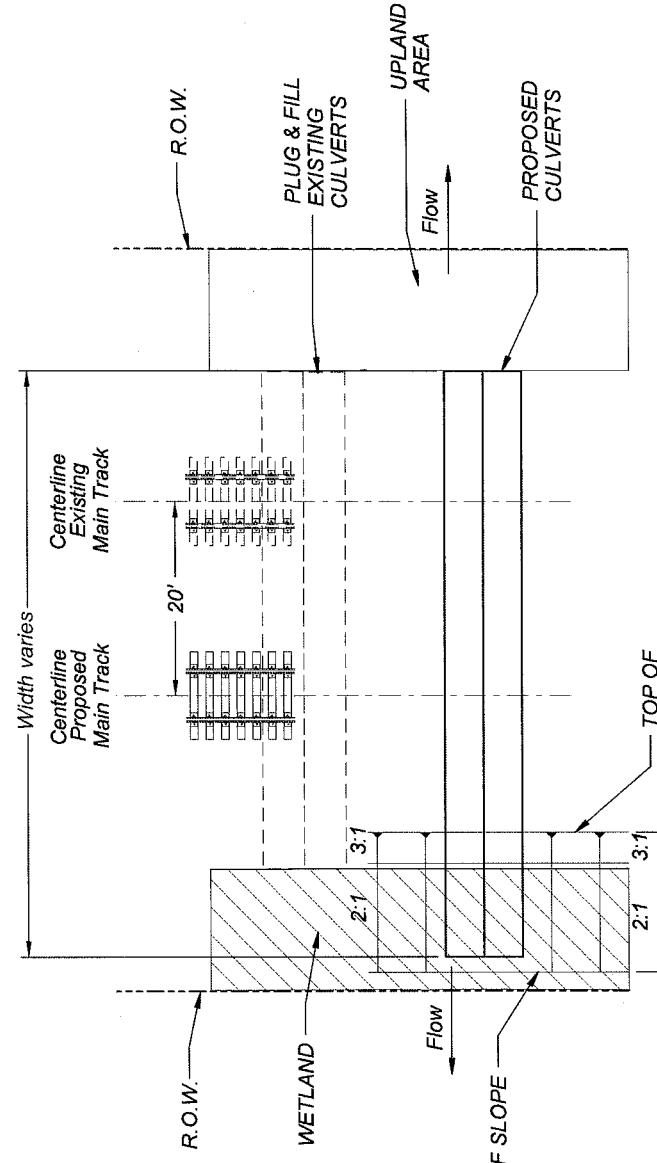


PLAN

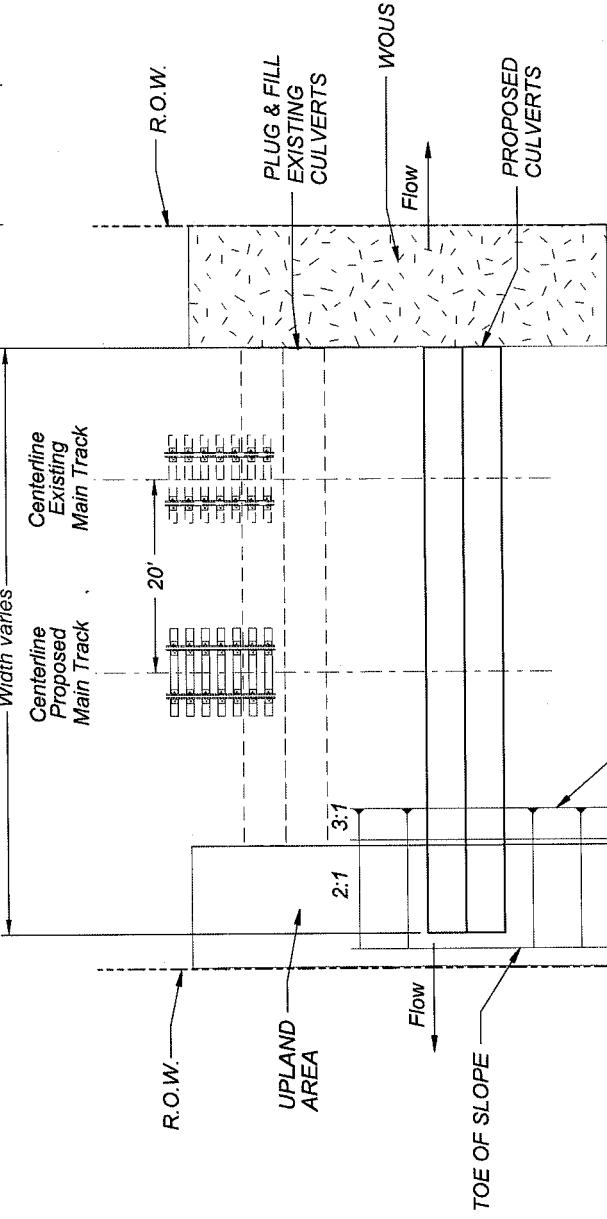


PLAN

<p>UNION PACIFIC RAILROAD Office of AVP Engineering Design/Construction</p>	<p>GROSSE TETE TO ADDIS</p>
<p>November 30, 2012</p>	<p>PLAN VIEW TYPICAL CULVERT REPLACEMENT SHEET 31 of 39</p>



PLAN



PLAN

November 30, 2012

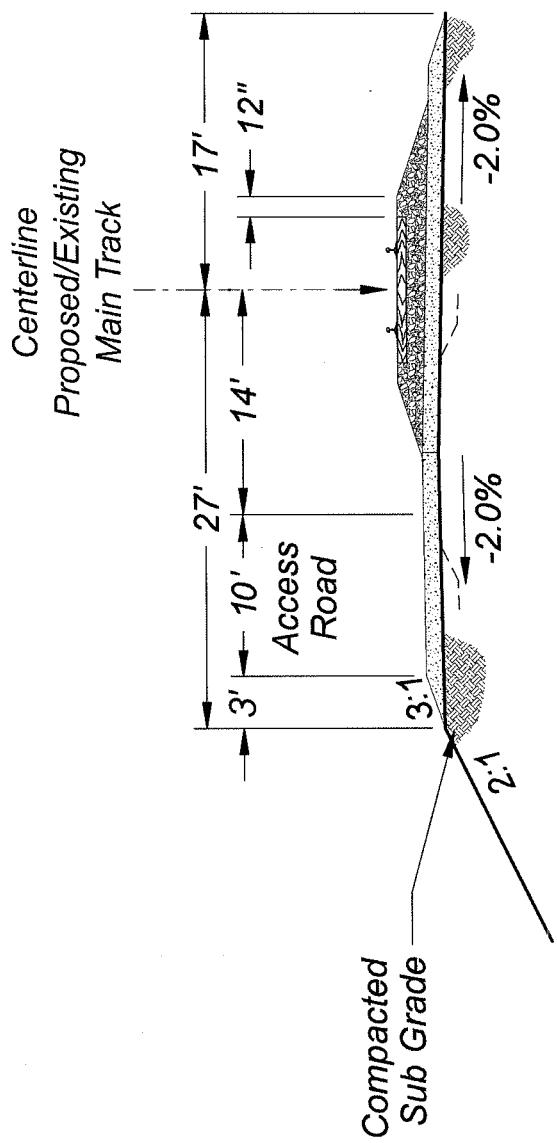
GROSSE TETE TO ADDIS

PLAN VIEW

TYPICAL CULVERT REPLACEMENT

SHEET 32 of 39

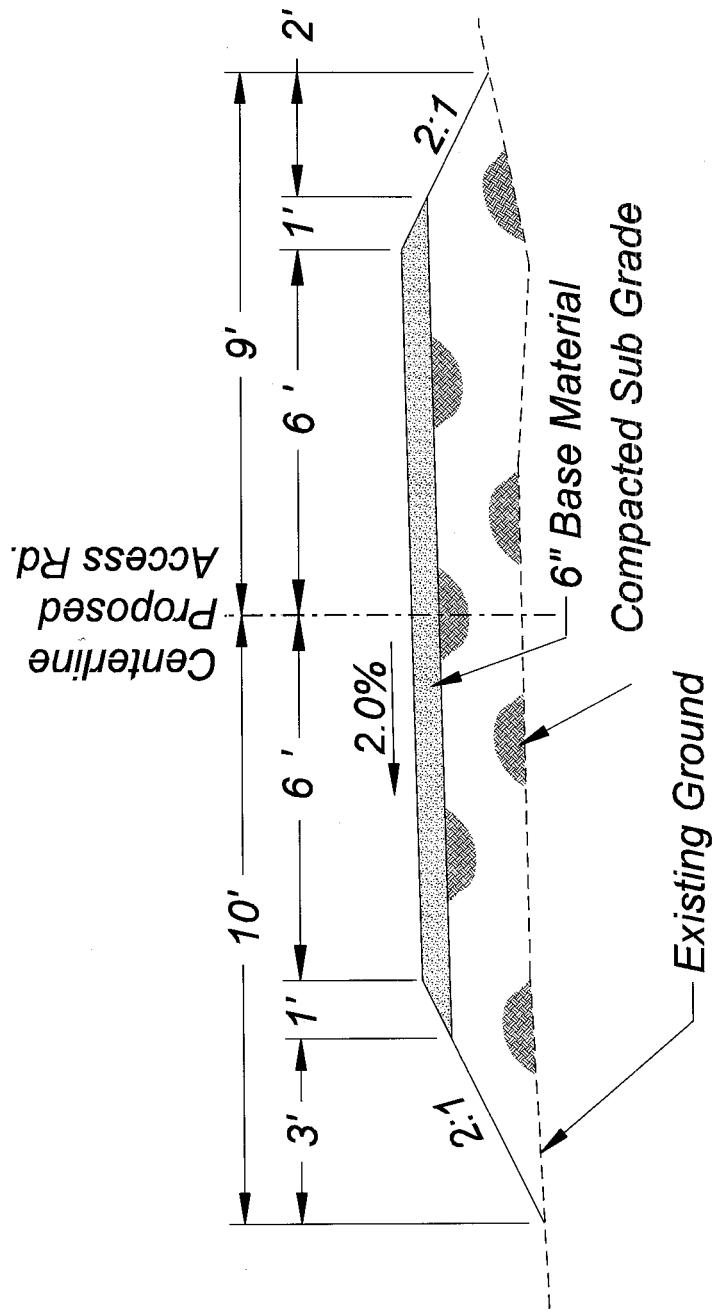




GROSSE TETE TO ADDIS

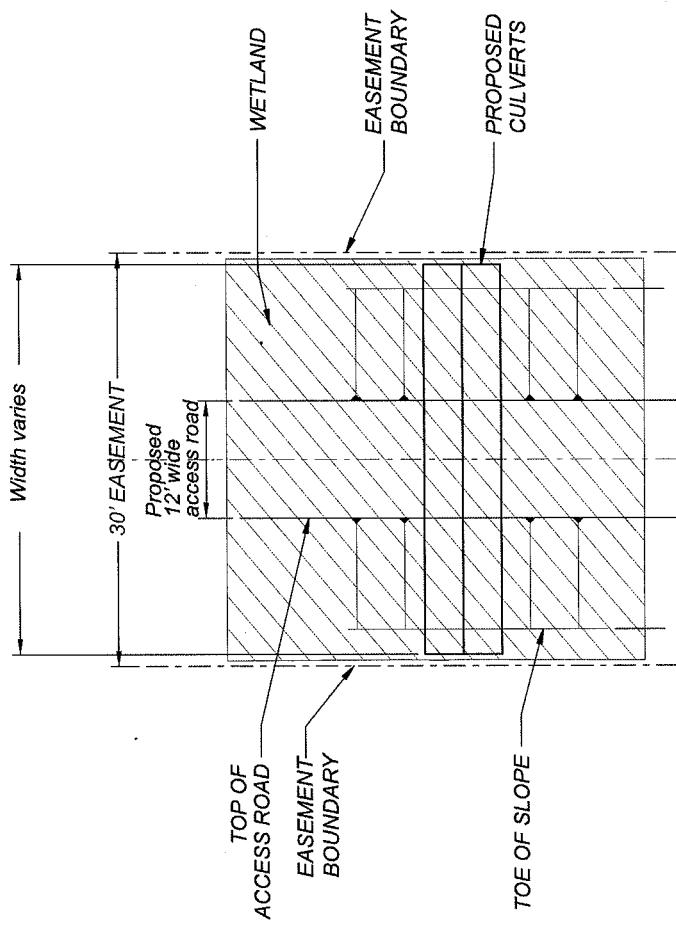
CROSS SECTION
TYPICAL MAIN TRACK WITH ACCESS ROAD
SHEET 33 of 39

November 30, 2012

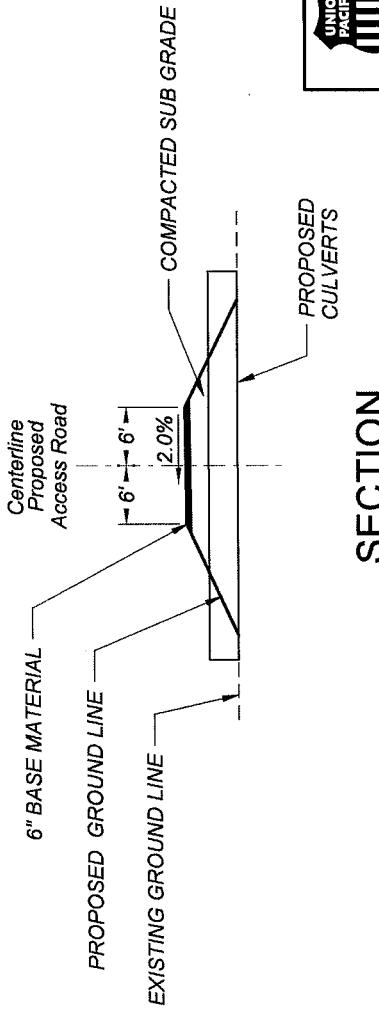


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GROSSE TETE TO ADDIS	CROSS SECTION TYPICAL 12' ACCESS ROAD SHEET 34 OF 39

November 30, 2012



PLAN



UNION PACIFIC RAILROAD
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GROSSE TETE TO ADDIS	PLAN AND CROSS SECTION
November 30, 2012	TYPICAL CULVERT ACCESS ROAD INSTALLATION
	SHEET 35 OF 39

TO DONALDSVILLE & LIVONIA
(TIMETABLE NORTH)

TO ST. JAMES & W. BRIDGE JCT
(TIME) A&E SOUTH)

FLOW

EXISTING BRIDGE

**Centerline
Existing
Main Track**

RIGHT

**PROPOSED
ACCESS ROAD BRIDGE**

FACE TO FACE OF BACK WALL

20'

**Centerline
Proposed
Access Road**

**2:1 SLOPE
(TYPICAL)**

**1' - 6" LAYER OF CLASS 1
RIPRAP**

**LOWWATER
MARK**

OHWM

15.0' (TYPICAL)

PLAN

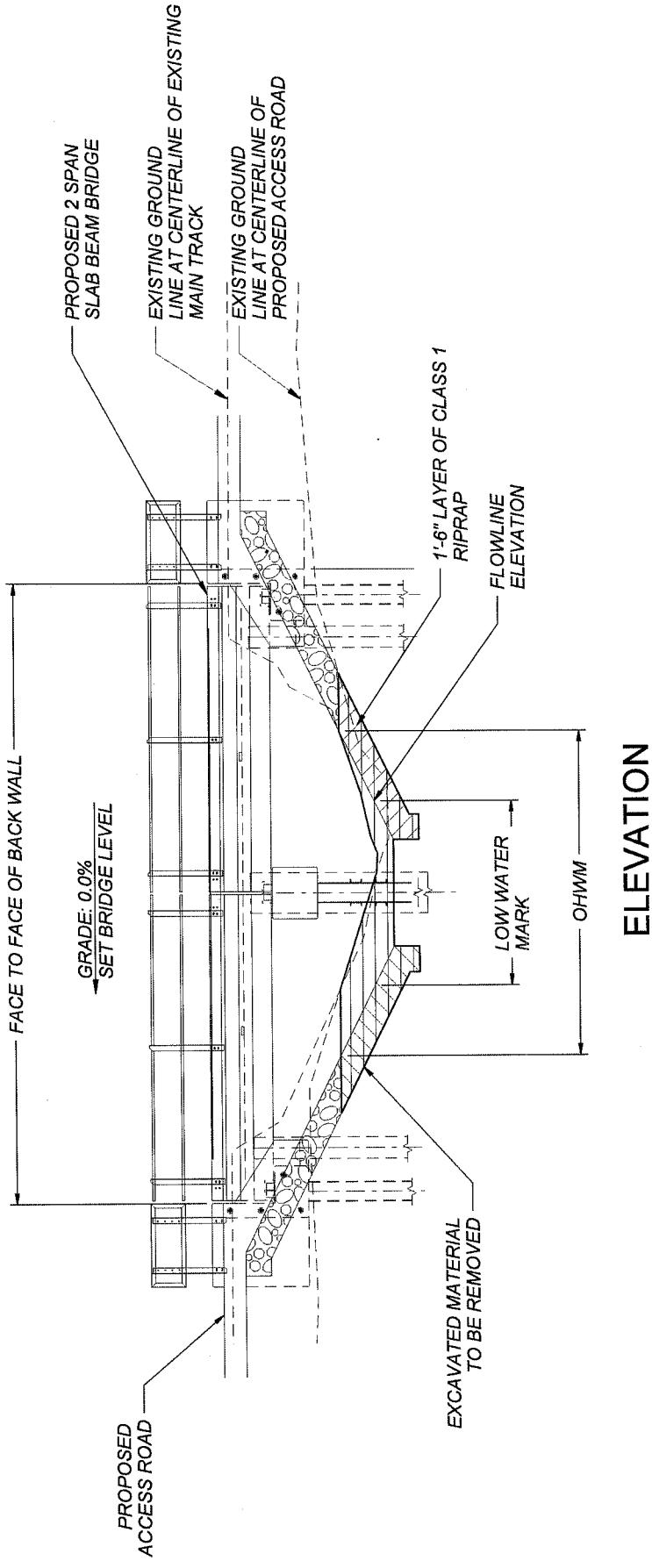
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GROSSE TETE TO ADDIS

TYPICAL ACCESS ROAD BRIDGE
SHEET 36 of 39

November 30, 2012



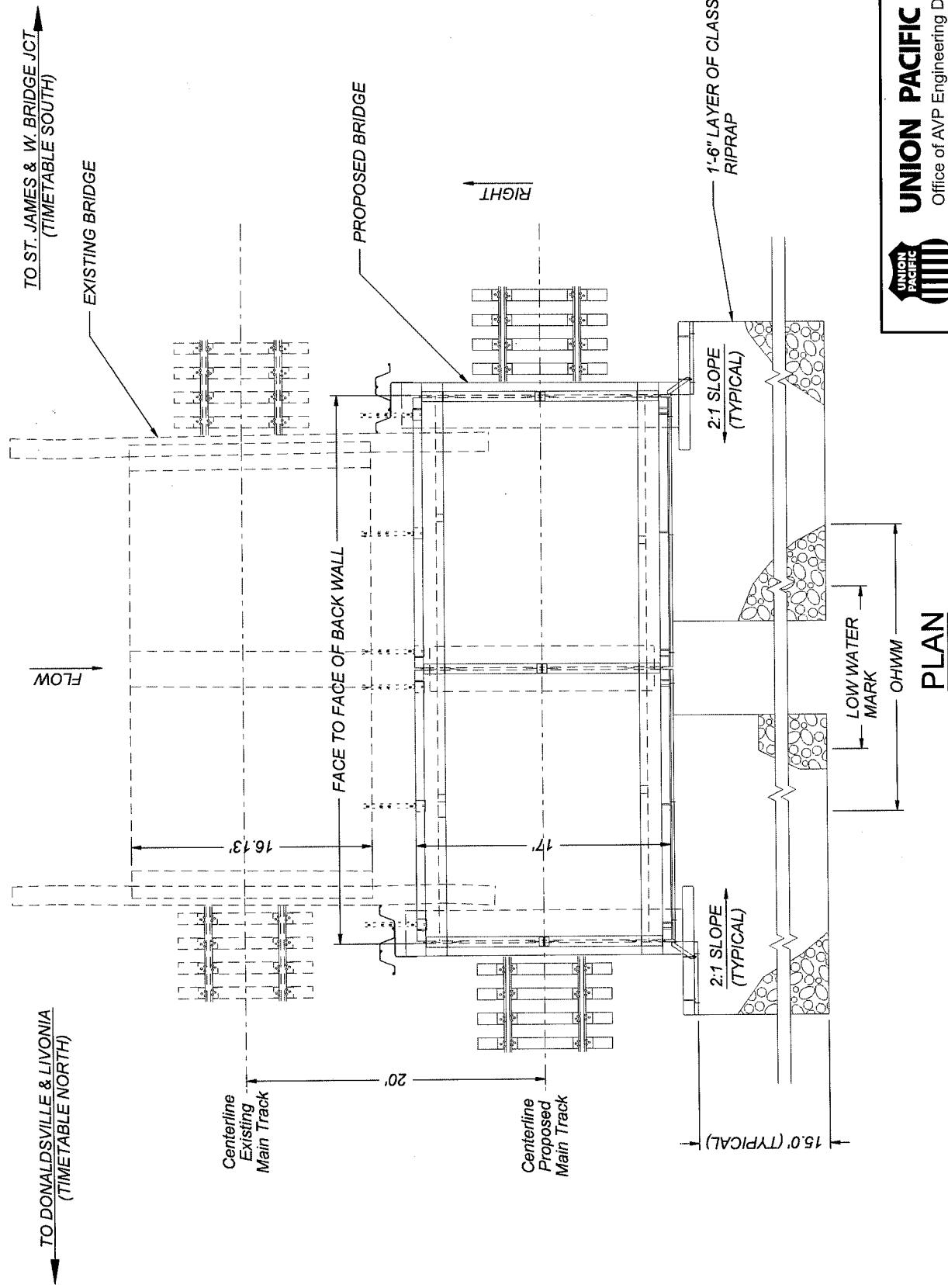
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GROSSE TETTE TO ADDIS

CROSS SECTIONS
TYPICAL ACCESS ROAD BRIDGE
SHEET 37 of 39



November 30, 2012

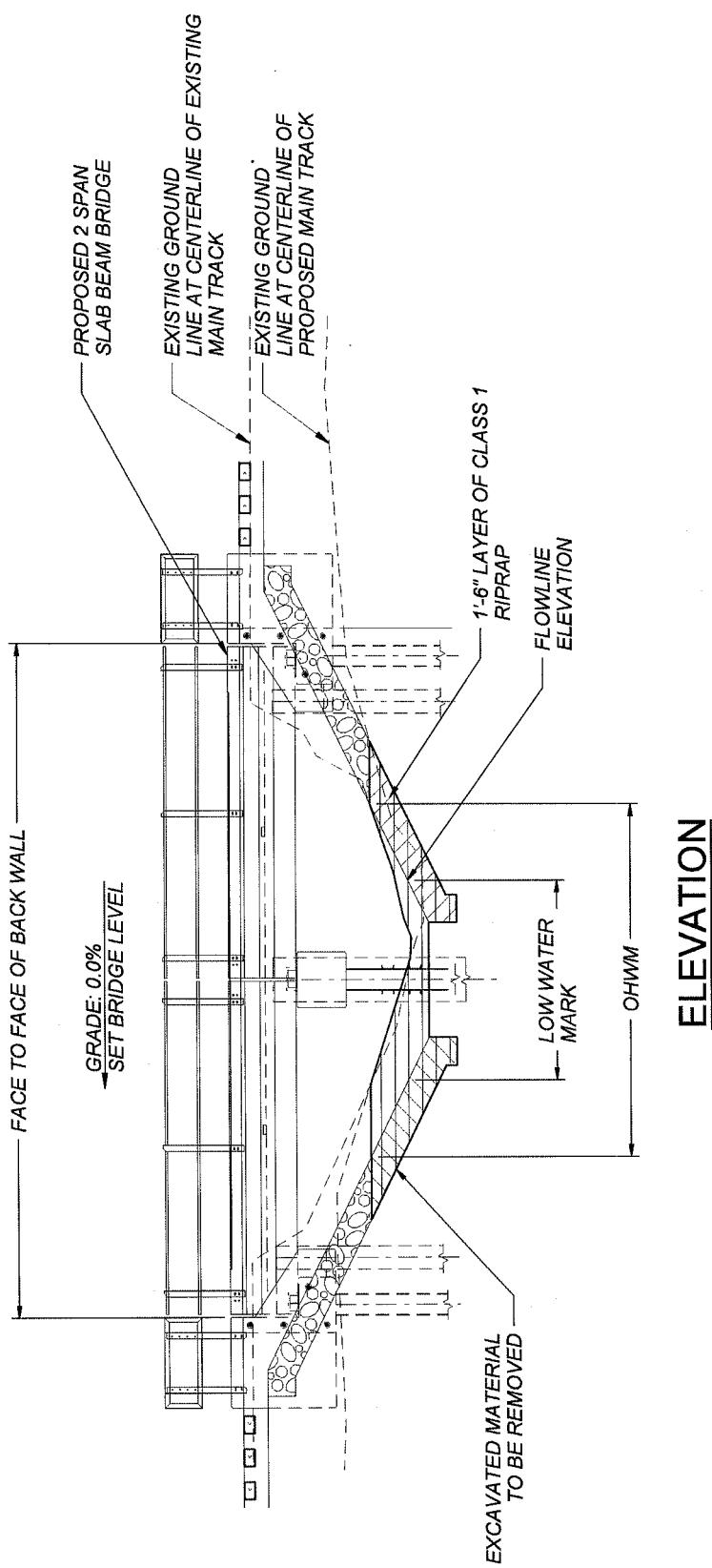


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GROSSE TETE TO ADDIS

TYPICAL BRIDGE
SHEET 38 of 39

November 30, 2012



ELEVATION

 UNION PACIFIC RAILROAD Office of AVP Engineering Design/Construction	CROSS SECTIONS TYPICAL BRIDGE SHEET 39 of 39
November 30, 2012	GROSSE TETE TO ADDIS