

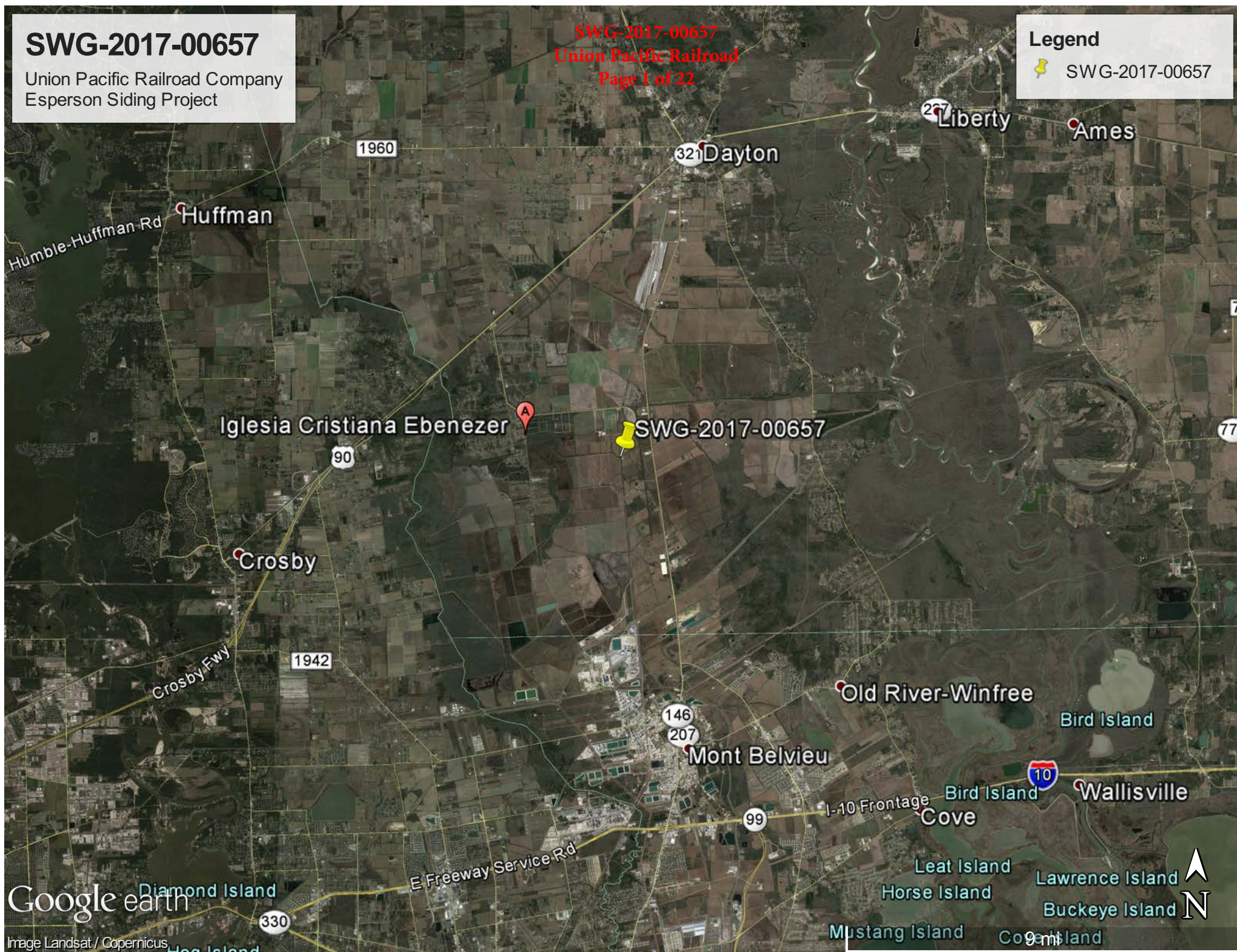
SWG-2017-00657

Union Pacific Railroad Company
Esperson Siding Project

SWG-2017-00657
Union Pacific Railroad
Page 1 of 22

Legend

 SWG-2017-00657



Key Sheet

SWG-2017-00657
Union Pacific Railroad
Page 2 of 22

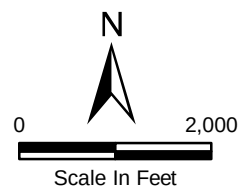
Count	Resource ID	Plan View Sheet Number	Cross Section Sheet Title	Cross Section Label
1	Wetland 2 (W002)	1 of 7	X01 of	A-A
2	Wetland 4 (W004)	2 of 7	X02	B-B
3	Wetland 5 (W005)	3 of 7	X03	C-C
4	Wetland 6 (W006)	4 of 7	X04	D-D
5	Wetland 8(W008)	5 of 7	X05	E-E
6	Wetland 9 (W009)	5 of 7	X05	E-E
7	Wetland 10(W010)	6 of 7	X06	F-F
8	Wetland 11 (W011)	7 of 7	X07	G-G
9	Wetland 12 (W012)	3 of 7	X08	H1-H1
10	Wetland 12 (W012)	3 of 7	X09	H2-H2
11	Stream 3 (W S003)	4 of 7	X10	I-I
12	Stream 4 (S004)	6 of 7	X11	J-J
13	Stream 6 (S006)	7 of 7	X12	K-K
14	Stream 7 (S007)	2 of 7	X13	L-L

LEGEND

- Proposed Siding Track Centerline
- Existing Mainline Track Centerline
- Proposed Right-of-Way Acquisition
- Temporary Construction Easement
- Existing Right-of-Way
- Survey Boundary

- Proposed Culvert
- Streets
- Existing Bridge

DATE: 4/9/2018



Detailed maps for areas with impacts are on the following pages



ch2m

Union Pacific Railroad
Esperson Siding, SWG-2017-00657

FIGURE 4
SHEET OF 7

Wetland 2 (W002) Fill for
Proposed Siding Track and
Construction Turnout Pad -
Plan View

SWG-2017-00657
Union Pacific Railroad
Page 3 of 22

W001
No Impacts

W002
Permanent Impact: 0.41 ac
Temporary Impact: 0 ac
Fill for siding track and turnout construction pad

Turnout Pad

Wise
Rd/County
Road 479

Access Road

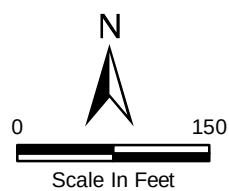
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- +— Proposed Siding Track Centerline
- + -+ Existing Mainline Track Centerline
- Proposed Right-of-Way Acquisition
- - - Temporary Construction Easement
- Existing Right-of-Way
- ▭ Survey Boundary

- Proposed Culvert
- Delineated Ordinary High Water Mark (OHWM)
- ▨ Palustrine Emergent Marsh
- ▨ Palustrine Forested
- ▨ Palustrine Scrub-Shrub
- Permanent Workspace
- Temporary Workspace

DATE: 4/9/2018

- Streets
- Existing Bridge



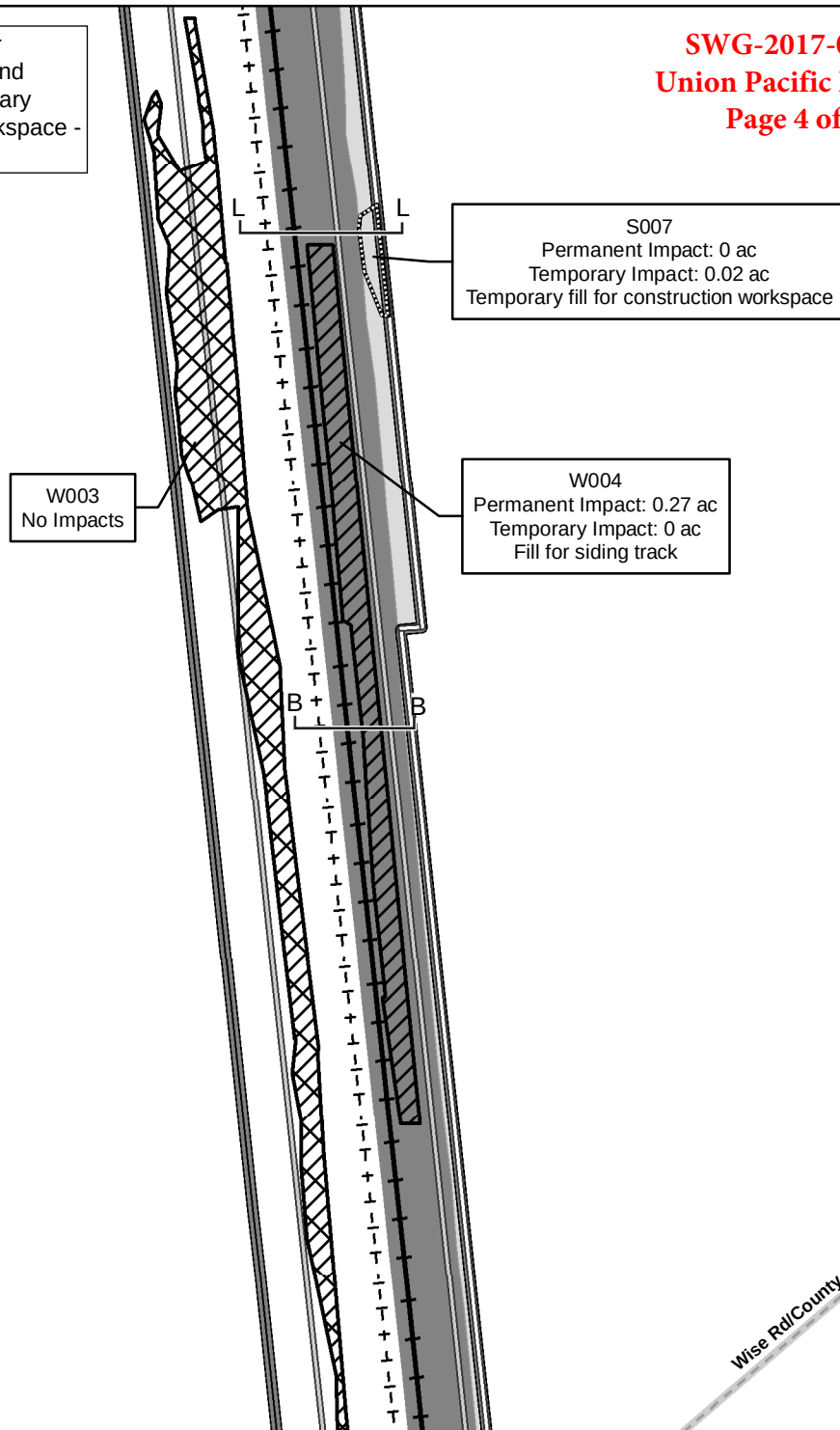
ch2m

Union Pacific Railroad
Esperson Siding, SWG-2017-00657

FIGURE 4
SHEET 1 OF 7

Wetland 4 (W004) Fill for
Proposed Siding Track and
Stream 7 (S007) Temporary
Fill for Construction Workspace -
Plan View

SWG-2017-00657
Union Pacific Railroad
Page 4 of 22



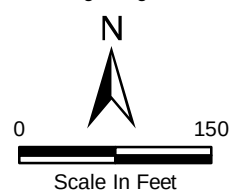
LEGEND

- +— Proposed Siding Track Centerline
- + -+ Existing Mainline Track Centerline
- Proposed Right-of-Way Acquisition
- - - Temporary Construction Easement
- Existing Right-of-Way
- Survey Boundary

- Proposed Culvert
- Delineated Ordinary High Water Mark (OHWM)
- ▨ Palustrine Emergent Marsh
- ▩ Palustrine Forested
- ▨ Palustrine Scrub-Shrub
- Permanent Workspace
- Temporary Workspace

DATE: 4/9/2018

- Streets
- Existing Bridge



ch2m

Union Pacific Railroad
Esperson Siding, SWG-2017-00657

FIGURE 4
SHEET 2 OF 7

Wetland 5 (W005) Fill (Riprap) for
 Proposed Culvert Protection and
 Wetland 12 (W012) Fill for
 Siding Track and Drainage - Plan View

W005
 Permanent Impact: 0.03 ac
 Temporary Impact: 0 ac
 Fill and clearing for culvert installation

W012
 Permanent Impact: 0.17 ac
 Temporary Impact: 0 ac
 Fill for siding track and drainage

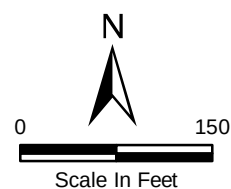
LEGEND

- +— Proposed Siding Track Centerline
- + -+ Existing Mainline Track Centerline
- Proposed Right-of-Way Acquisition
- - - Temporary Construction Easement
- Existing Right-of-Way
- ▭ Survey Boundary

- Proposed Culvert
- Delineated Ordinary High Water Mark (OHWM)
- ▨ Palustrine Emergent Marsh
- ▨ Palustrine Forested
- ▨ Palustrine Scrub-Shrub
- Permanent Workspace
- Temporary Workspace

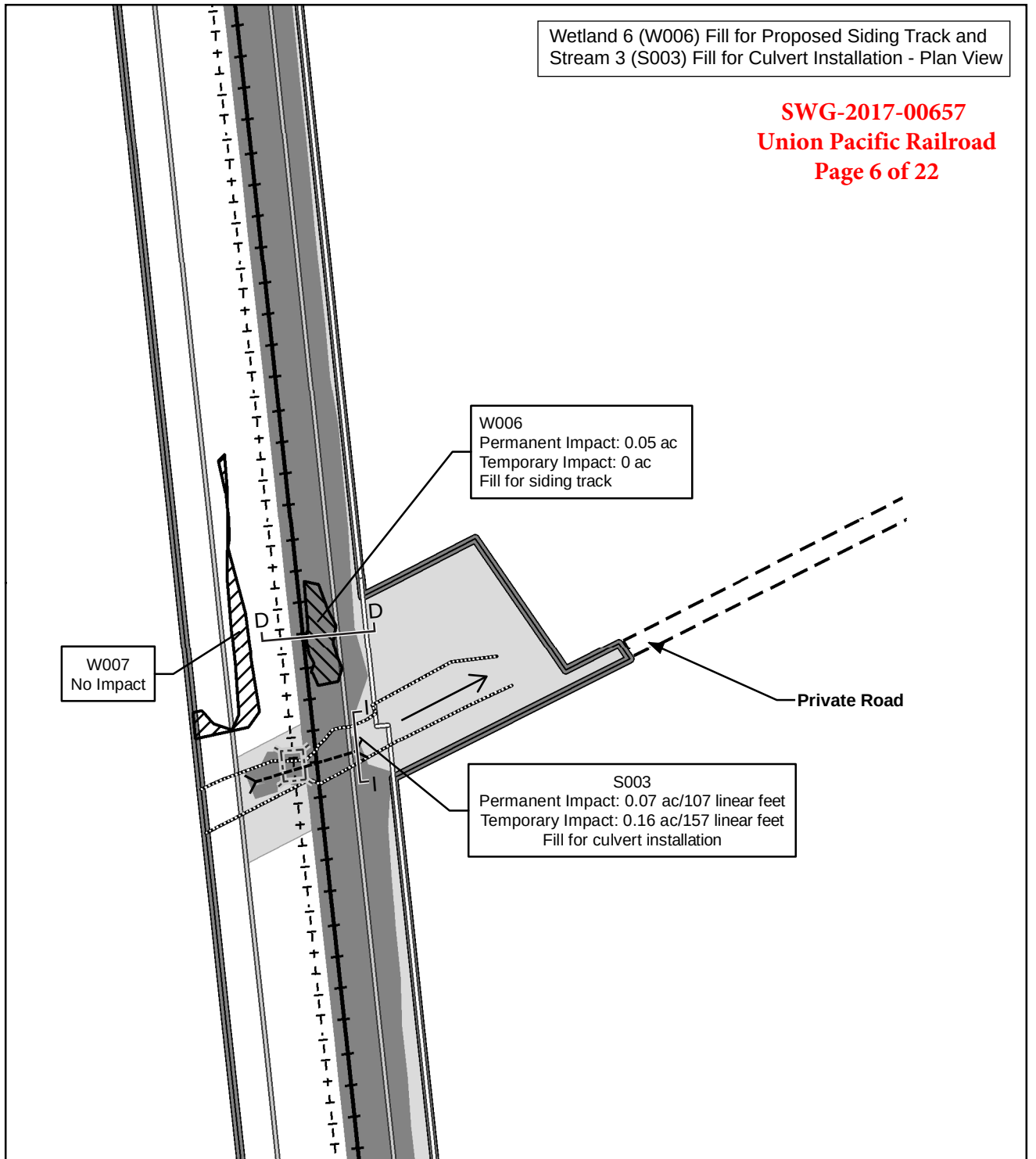
DATE: 4/9/2018

- Streets
- Existing Bridge



Wetland 6 (W006) Fill for Proposed Siding Track and
Stream 3 (S003) Fill for Culvert Installation - Plan View

SWG-2017-00657
Union Pacific Railroad
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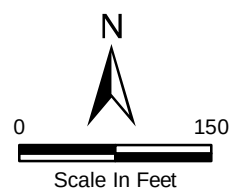
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- +— Proposed Siding Track Centerline
- + -+ Existing Mainline Track Centerline
- Proposed Right-of-Way Acquisition
- - - Temporary Construction Easement
- Existing Right-of-Way
- ▭ Survey Boundary

- Proposed Culvert
- Delineated Ordinary High Water Mark (OHWM)
- ▨ Palustrine Emergent Marsh
- ▩ Palustrine Forested
- ▨ Palustrine Scrub-Shrub
- Permanent Workspace
- Temporary Workspace
- ← Flow Direction

DATE: 4/9/2018

- Streets
- Existing Bridge



ch2m

Union Pacific Railroad
Esperson Siding, SWG-2017-00657

FIGURE 4
SHEET 4 OF 7

Wetland 8 (W008) Fill and Clearing for
 Culvert Installation and Wetland 9 (W009) Fill for
 Siding Track and Culvert Installation - Plan View

W008
 Permanent Impact: 0.02 ac
 Temporary Impact: 0 ac
 Fill and clearing for culvert installation

W009
 Permanent Impact: 0.19 ac
 Temporary Impact: 0 ac
 Fill for siding track and culvert installation

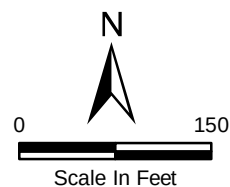
LEGEND

- +— Proposed Track Centerline
- + - Existing Track Centerline
- Proposed Right-of-Way Acquisition
- - - Temporary Construction Easement
- Existing Right-of-Way
- ▭ Survey Boundary

- >---< Proposed Culvert
- Delineated Ordinary High Water Mark (OHWM)
- ▨ Palustrine Emergent Marsh
- ▩ Palustrine Forested
- ▧ Palustrine Scrub-Shrub
- Permanent Workspace
- Temporary Workspace

DATE: 4/9/2018

- Streets
- Existing Bridge



SWG-2017-00657
Union Pacific Railroad
Page 8 of 22

Wetland 10 (W010) Fill for Siding Track and
 Stream 4 (S004) Fill for Culvert Installation -
 Plan View

S004
 Permanent Impact: <0.01 ac/33 linear feet
 Temporary Impact: 0 ac
 Fill for culvert installation

W010
 Permanent Impact: 0.02 ac
 Temporary Impact: 0 ac
 Fill for siding track

LEGEND

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> —+— Proposed Siding Track Centerline + -+ Existing Mainline Track Centerline — Proposed Right-of-Way Acquisition - - - Temporary Construction Easement — Existing Right-of-Way ▭ Survey Boundary | <ul style="list-style-type: none"> — Proposed Culvert — Delineated Ordinary High Water Mark (OHWM) ▨ Palustrine Emergent Marsh ▩ Palustrine Forested ▩ Palustrine Scrub-Shrub ■ Permanent Workspace ■ Temporary Workspace | <p>DATE: 4/9/2018</p> <ul style="list-style-type: none"> — Streets — Existing Bridge <p>N</p> <p>0 150</p> <p>Scale In Feet</p> |
|---|--|---|

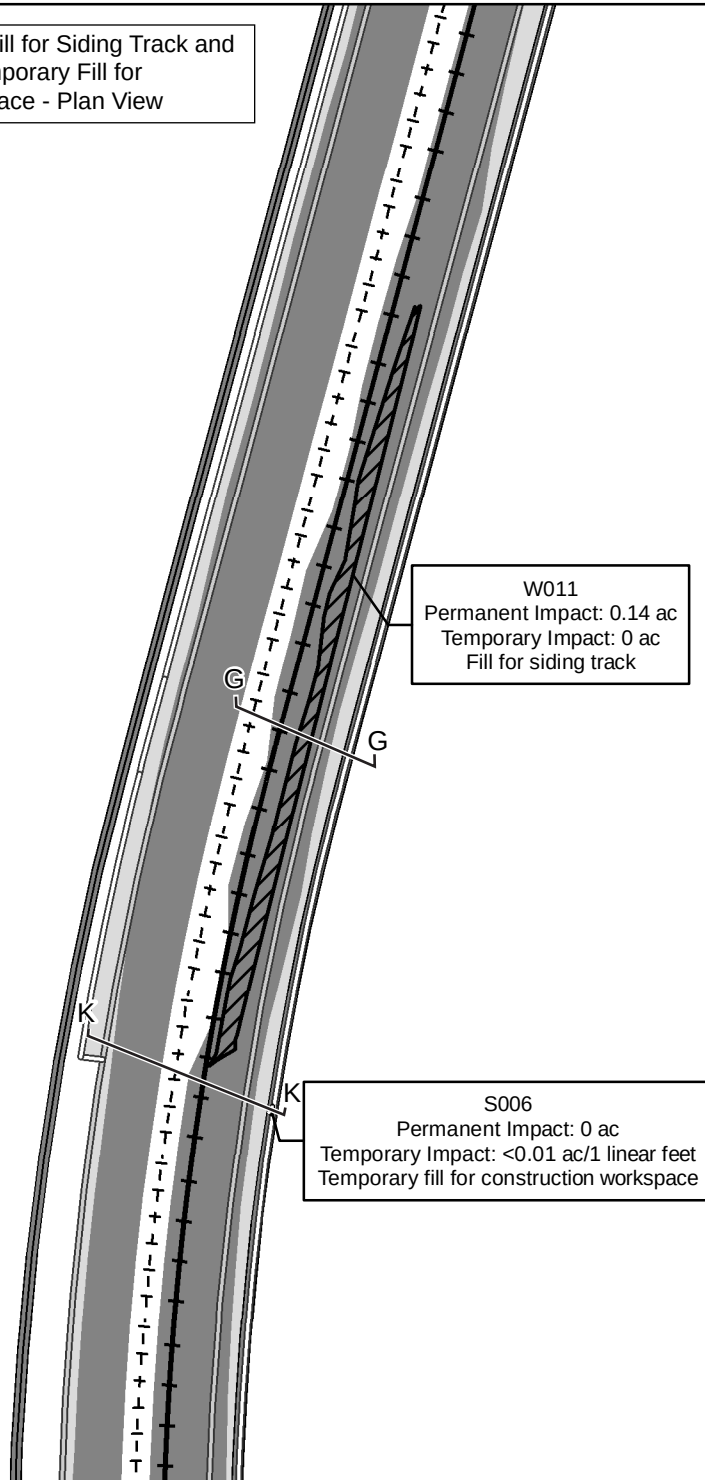


Union Pacific Railroad
Esperson Siding, SWG-2017-00657

FIGURE 4
SHEET 6 OF 7

Wetland 11 (W011) Fill for Siding Track and
Stream 6 (S006) Temporary Fill for
Construction Workspace - Plan View

SWG-2017-00657
Union Pacific Railroad
Page 9 of 22



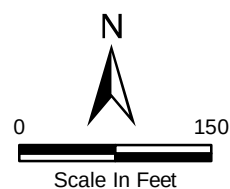
LEGEND

- +— Proposed Siding Track Centerline
- + -+ Existing Mainline Track Centerline
- Proposed Right-of-Way Acquisition
- - - Temporary Construction Easement
- Existing Right-of-Way
- Survey Boundary

- Proposed Culvert
- Delineated Ordinary High Water Mark (OHWM)
- ▨ Palustrine Emergent Marsh
- ▨ Palustrine Forested
- ▨ Palustrine Scrub-Shrub
- Permanent Workspace
- Temporary Workspace

DATE: 4/9/2018

- Streets
- Existing Bridge

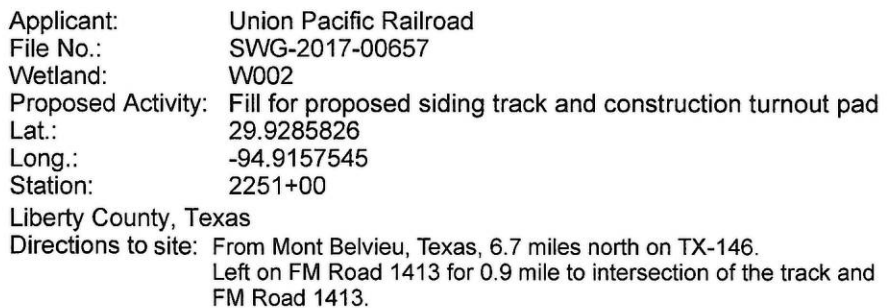
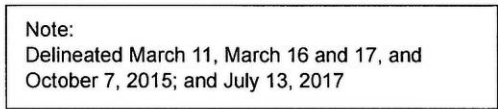


ch2m

Union Pacific Railroad
Esperson Siding, SWG-2017-00657

FIGURE 4
SHEET 7 OF 7

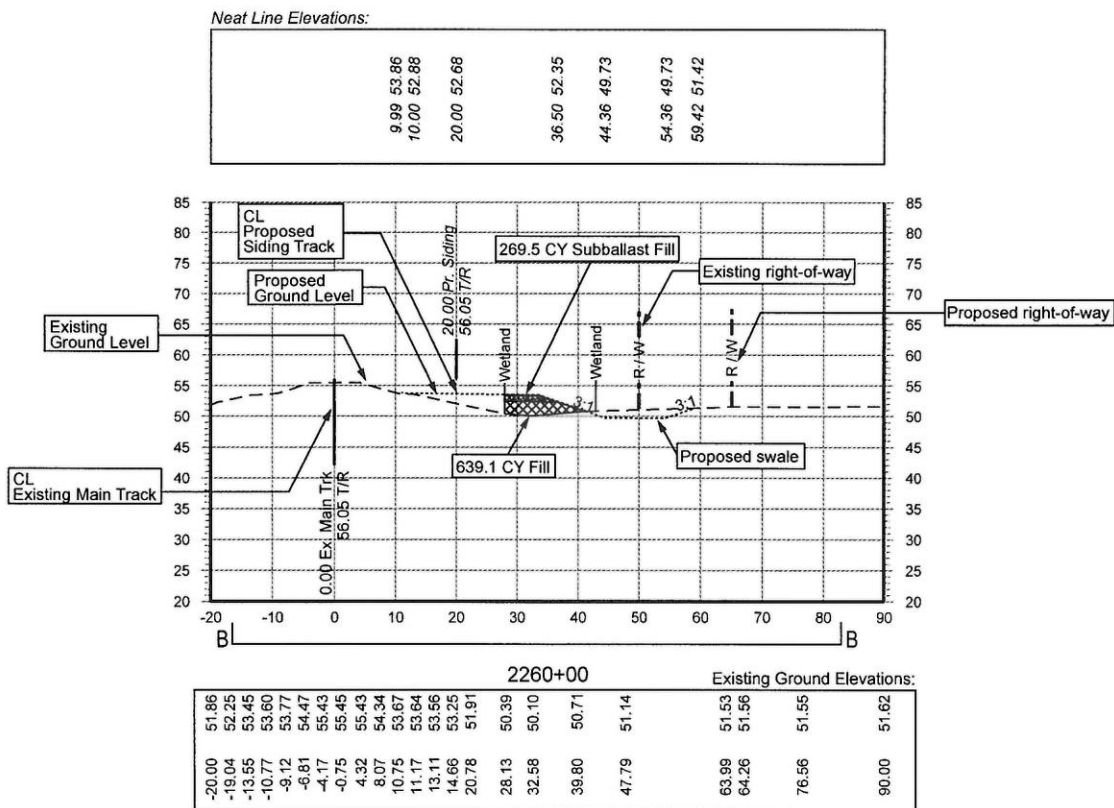
SWG-2017-00657
Union Pacific Railroad
Page 10 of 22



WORK ORDER:	26873
PID:	88693
BUDGET REF:	14CP250
SHEET NUMBER	X01

PR0217181618SAC

**Wetland 4 (W004) Fill for Proposed Siding Track -
Cross Section View B-B**



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Wetland: W004
Proposed Activity: Fill for proposed siding track
Lat.: 29.93275605
Long.: -94.91520868
Station: 2260+00
Liberty County, Texas
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.



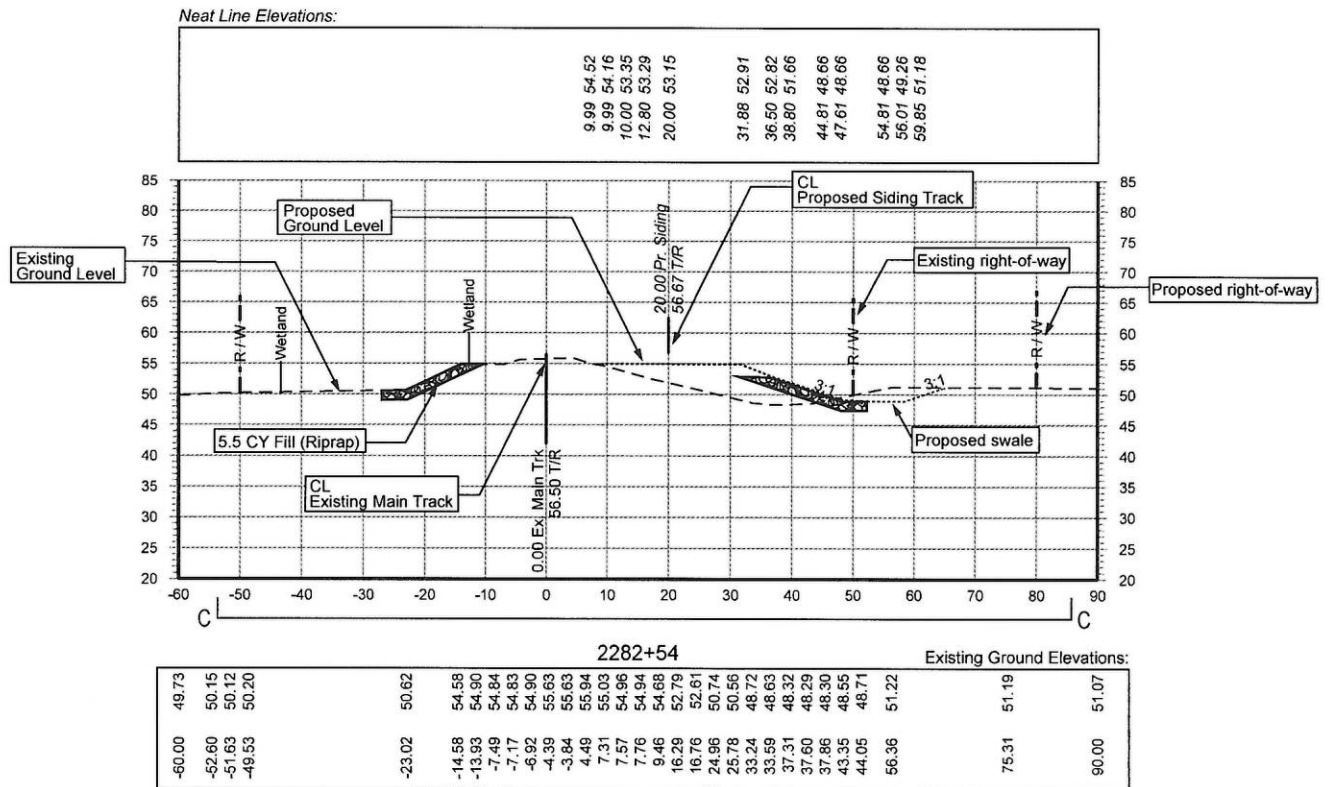
DRAWN BY:	LNH
CHECKED BY:	DAN
DATE:	2/16/2018
SCALE:	AS SHOWN

WORK ORDER:	26873
PID:	88693
BUDGET REF:	14CP250
SHEET NUMBER	X02

UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design
LOCATION & DESCRIPTION:	
Mont Belvieu, TX Baytown Subdivision MP 40.61 to MP 42.78 <u>Esperson Siding</u>	
SHEET TITLE:	W004 Cross Section

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2/16/2018

Wetland 5 (W005) Fill (Riprap) for Proposed Culvert Protection
(culvert not in wetland) - Cross Section View C-C



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Wetland: W005
Proposed Activity: Fill (Riprap) for proposed culvert protection (culvert not in wetland)
Lat.: 29.938547
Long.: -94.916048
Station: 2282+44.95
Liberty County, Texas
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146.
Left on FM Road 1413 for 0.9 mile to intersection of the
track and FM Road 1413.

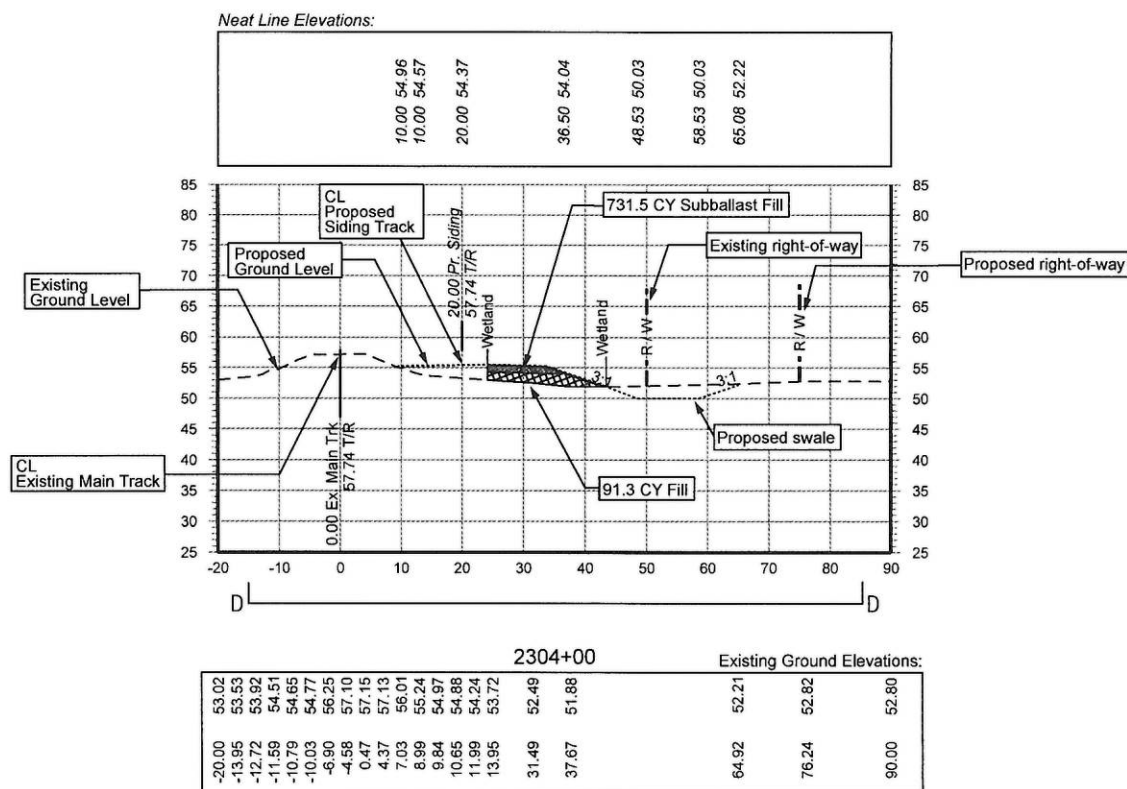


DRAWN BY: LNH
CHECKED BY: DAN
DATE: 2/16/2018
SCALE: AS SHOWN

WORK ORDER: 26873
PID: 88693
BUDGET REF: 14CP250
SHEET NUMBER: X03

UNION PACIFIC RAILROAD Office of Assistant Vice President
Engineering Design
LOCATION & DESCRIPTION: Mont Belvieu, TX
Baytown Subdivision MP 40.61 to MP 42.78
Esperson Siding
SHEET TITLE: W005 Cross Section

**Wetland 6 (W006) Fill for Proposed Siding Track -
Cross Section View D-D**



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Wetland: W006
Proposed Activity: Fill for proposed siding track
Lat.: 29.94447506
Long.: -94.91646013
Station: 2304+00
Liberty County, Texas
Directions to site: From Mont Belivieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.



DRAWN BY:	LNH
CHECKED BY:	DAN
DATE:	2/16/2011
SCALE:	AS SHOWN

WORK ORDER:	26873
PID:	88693
BUDGET REF:	14CP250
SHEET NUMBER	X04

**UNION PACIFIC
RAILROAD**

Office of Assistant Vice President
Engineering Design

LOCATION & DESCRIPTION:

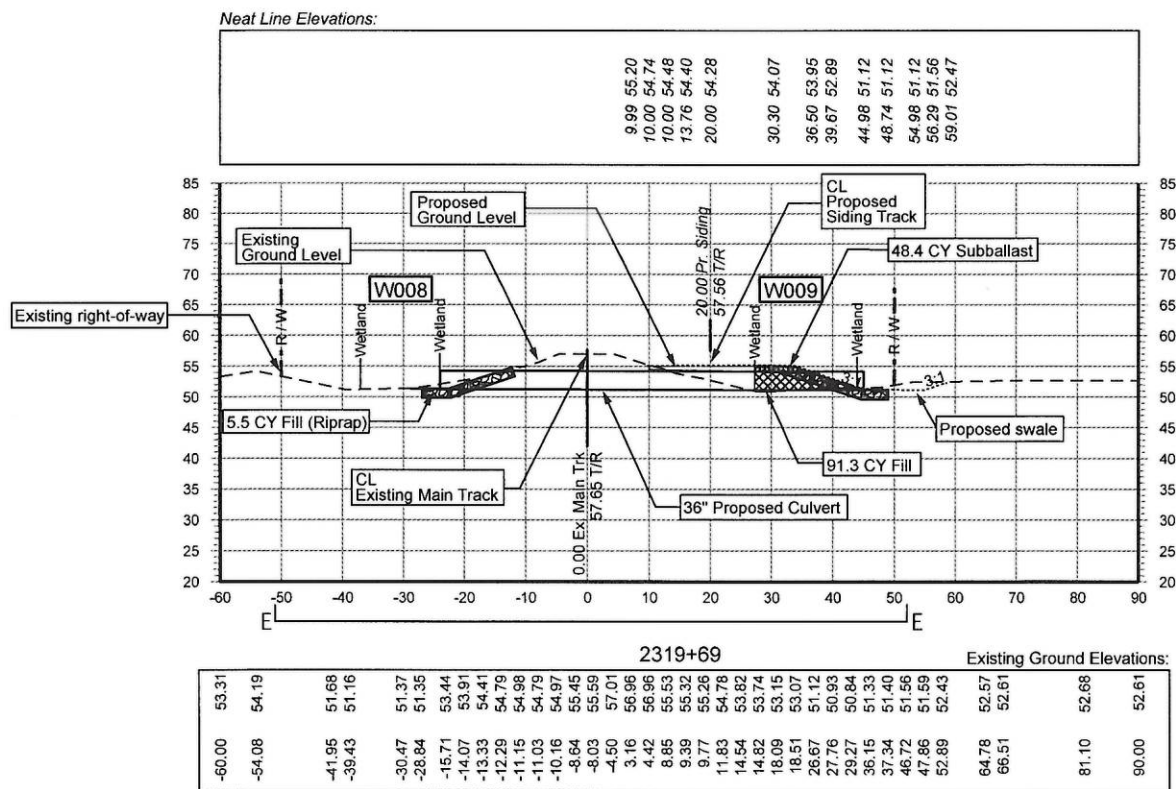
DESCRIPTION: Mont Belvieu, TX
Baytown Subdivision MP 40.61 to MP 42.78
Esperson Siding

SHEET TITLE:

W006 Cross Section

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Default
2/16/2018

Wetland 8 (W008) Fill and Clearing for Proposed Culvert (Smooth Steel Pipe) and Wetland 9 (W009) Fill for Siding Track and Culvert Installation - Cross Section View E-E

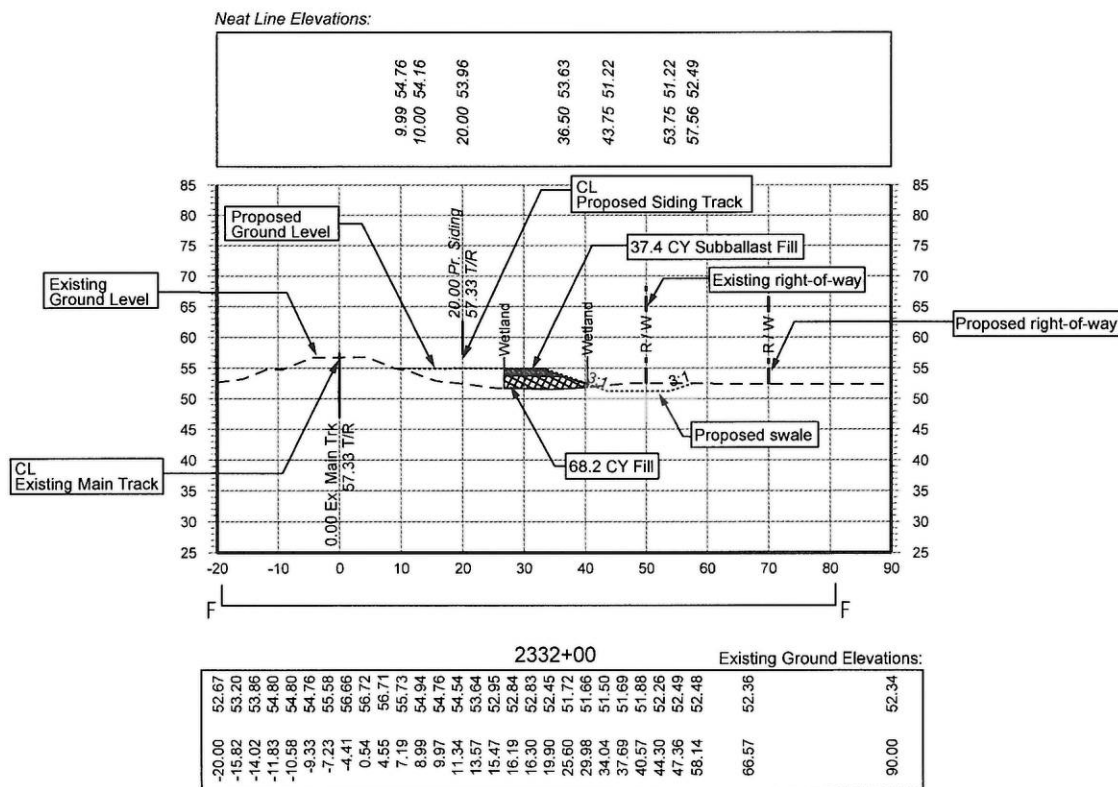


Note:
Delineated March 11, March 16 and 17, and
October 7 2015; and July 13, 2017



Applicant: Union Pacific Railroad			
File No.: SWG-2017-00657			
Wetland: W008 & W009			
Proposed Activity: W008 fill and clearing for proposed culvert and W009 fill for siding track and culvert installation			
Lat.: 29.948819	W009 29.948843		
Long.: -94.917139	-94.916907		
Station: 2319+69			
Liberty County, Texas			
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.			
	DRAWN BY: LNH	WORK ORDER: 26873	UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design
	CHECKED BY: DAN	PID: 88693	
	DATE: 2/16/2018	BUDGET REF: 14CP250	
	SCALE: AS SHOWN	SHEET NUMBER: X05	
LOCATION & DESCRIPTION: Mont Belvieu, TX Baytown Subdivision MP 40.61 to MP 42.78 Esperson Siding			SHEET TITLE: W008 and W009 Cross Sections

Wetland 10 (W010) Fill for Proposed Siding Track - Cross Section View F-F



Note:
 Delineated March 11, March 16 and 17, and
 October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
 File No.: SWG-2017-00657
 Wetland: W010
 Proposed Activity: Fill for proposed siding track
 Lat.: 29.95214782
 Long.: -94.91729271
 Station: 2332+00
 Liberty County, Texas
 Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146.
 Left on FM Road 1413 for 0.9 mile to intersection of the
 track and FM Road 1413.

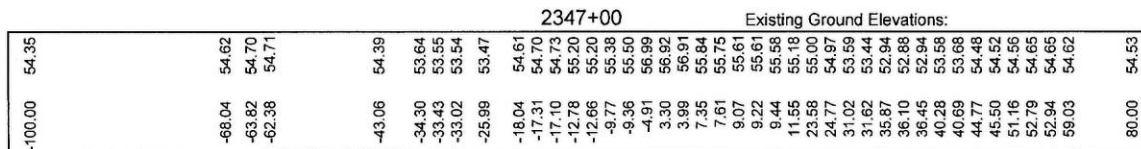


DRAWN BY: LNH
 CHECKED BY: DAN
 DATE: 2/16/2018
 SCALE: AS SHOWN

WORK ORDER: 26873
 PID: 88693
 BUDGET REF: 14CP250
 SHEET NUMBER: X06

UNION PACIFIC RAILROAD Office of Assistant Vice President
 Engineering Design
 LOCATION & DESCRIPTION: Mont Belvieu, TX
 Baytown Subdivision MP 40.61 to MP 42.78
 Esperson Siding
 SHEET TITLE: W010 Cross Section

Page 16 of 22



A horizontal scale bar with alternating black and white segments. It is marked with the numbers 30, 0, 30, and 60. Below the bar, the text "SCALE IN FEET" is written.

Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Wetland: W011
Proposed Activity: Excavation for proposed drainage
Lat.: 29.95623318
Long.: -94.9172089
Station: 2347+00
Liberty County, Texas
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.

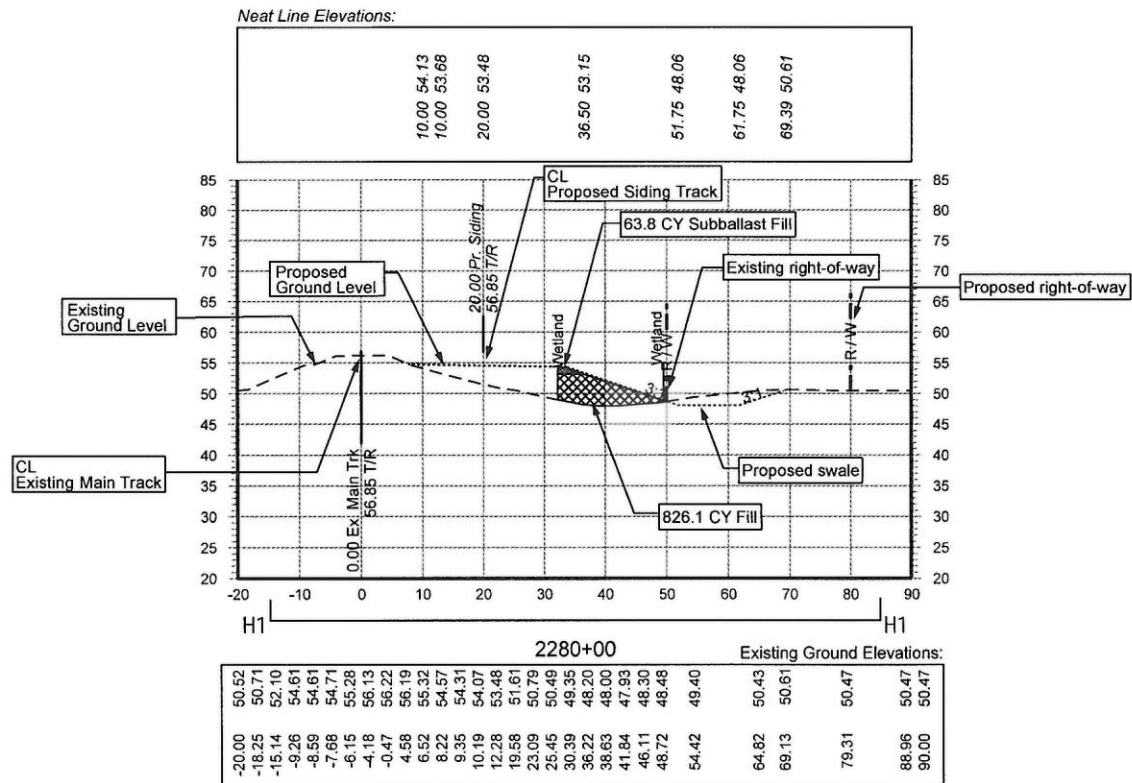


WORK ORDER:	26873
PID:	88693
BUDGET REF:	14CP250
SHEET NUMBER	X07

UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design
LOCATION & DESCRIPTION:	Mont Belvieu, TX Baytown Subdivision MP 40.61 to MP 42.78 <u>Esperson Siding</u>
SHEET TITLE:	W011 Cross Section

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2/16/2018

Wetland 12 (W012) Fill for Proposed Siding Track - Cross Section View H1-H1



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



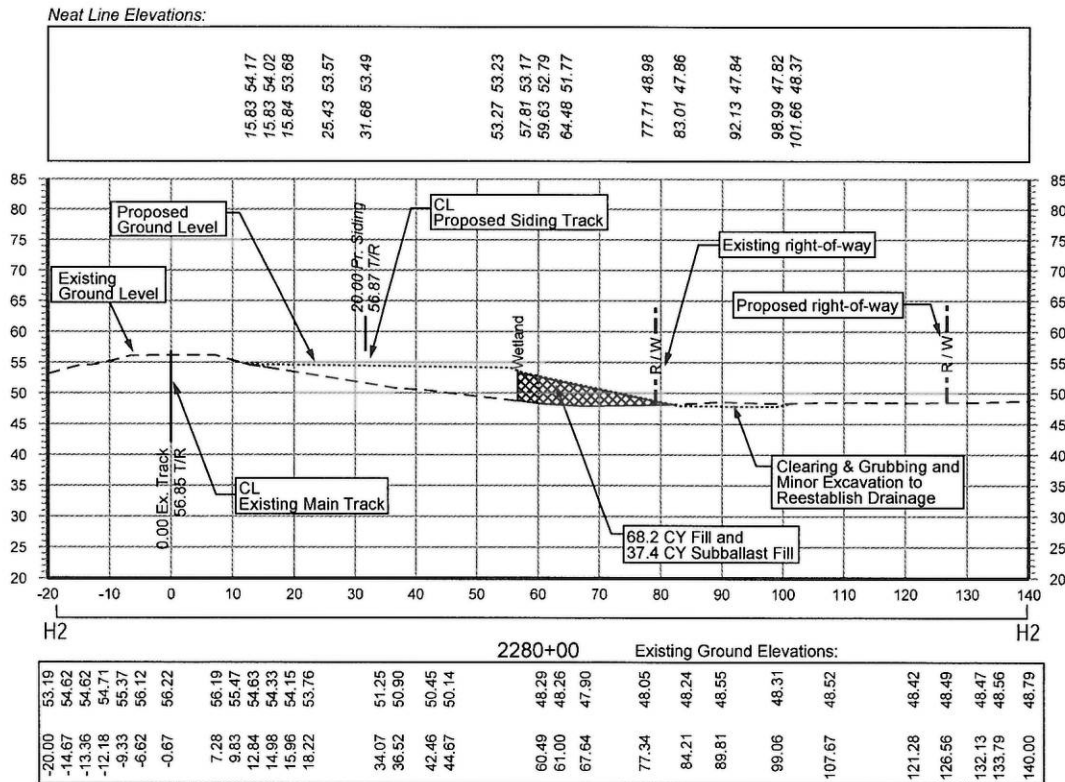
Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Wetland: W012
Proposed Activity: Fill for proposed siding track
Lat.: 29.937763
Long.: -94.915698
Station: 2280+00
Liberty County, Texas
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.



DRAWN BY: LNH	WORK ORDER: 26873	UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design
CHECKED BY: DAN	PID: 88693	
DATE: 2/16/2018	BUDGET REF: 14CP250	
SCALE: AS SHOWN	SHEET NUMBER: X08	
LOCATION & DESCRIPTION: Mont Belvieu, TX Baytown Subdivision MP 40.61 to MP 42.78 Esperson Siding		SHEET TITLE: W012 Cross Section

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2/26/2008

**Wetland 12 (W012) Proposed Clearing & Grubbing and Minor
Excavation to Reestablish Drainage
Cross Section View H2-H2**



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
 File No.: SWG-2017-00657
 Wetland: W012
 Proposed Activity: Proposed clearing & grubbing and minor excavation to reestablish drainage
 Lat.: 29.937656
 Long.: -94.915655
 Station: 2280+00 (Skewed 50°50'54")
 Liberty County, Texas
 Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.



DRAWN BY:	LNH
CHECKED BY:	DAN
DATE:	2/26/2018
SCALE:	AS SHOWN

WORK ORDER:	26873
PID:	88693
BUDGET REF:	14CP250
SHEET NUMBER	X09

**UNION PACIFIC
RAILROAD**

Office of Assistant Vice President
Engineering Design

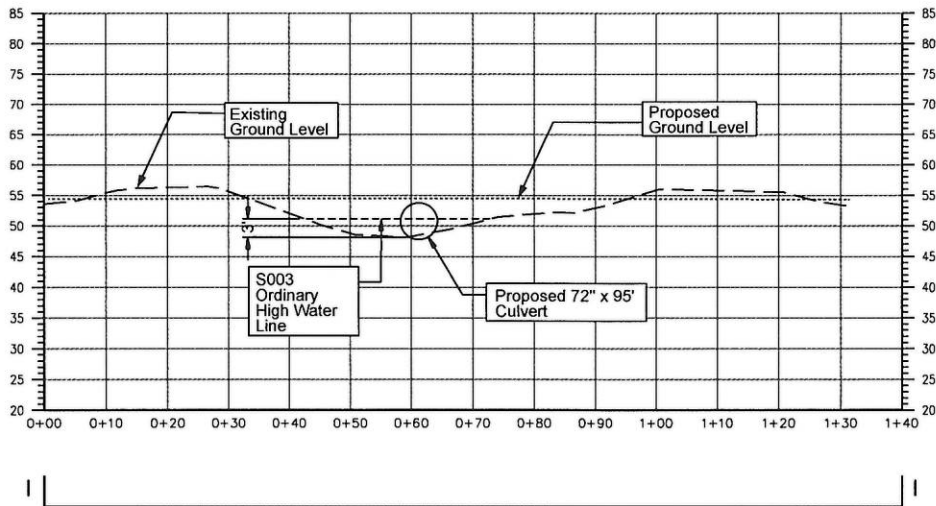
LOCATION & DESCRIPTION:

DESCRIPTION: Mont Belvieu, TX
Baytown Subdivision MP 40.61 to MP 42.78
Esperson Siding

SHEET TITLE:

W012 Cross Section

Stream 3 (S003) Fill for Proposed Culvert Installation -
 Cross Section View I-I



Note:
 Delineated March 11, March 16 and 17, and
 October 7 2015; and July 13, 2017



Applicant: Union Pacific Railroad
 File No.: SWG-2017-00657
 Waterway: Stream 3 (S003)
 Proposed Activity: Remove existing bridge for existing mainline,
 install 72" culvert 29 SF, fill around culvert 680 CY,
 armor ends of proposed culvert with riprap 90 CY
 Lat.: 29.944119
 Long.: -94.916480
 Station: 2302+59
 Liberty County, Texas
 Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146.
 Left on FM Road 1413 for 0.9 mile to intersection of the
 track and FM Road 1413.

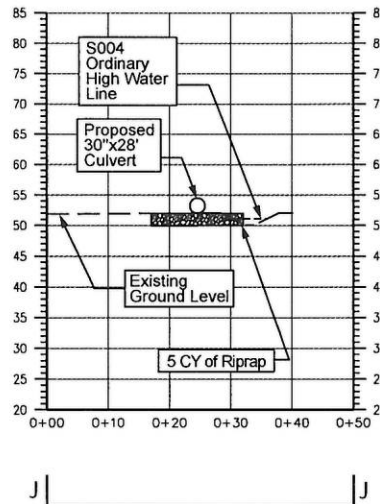


DRAWN BY:
 CHECKED BY:
 DATE: 02/26/2018
 SCALE: AS SHOWN

WORK ORDER: 26873
 PID: 88693
 BUDGET REF: 14CP250
 SHEET NUMBER: X10

UNION PACIFIC RAILROAD Office of Assistant Vice President
 Engineering Design
 LOCATION & DESCRIPTION: Mont Belvieu, TX
 Baytown Subdivision MP 40.61 to MP 42.78
 Esperson Siding
 SHEET TITLE:

Stream 4 (S004) Fill for Proposed Culvert Installation - Cross Section View J-J



Note:
 Delineated March 11, March 16 and 17, and
 October 7 2015; and July 13, 2017



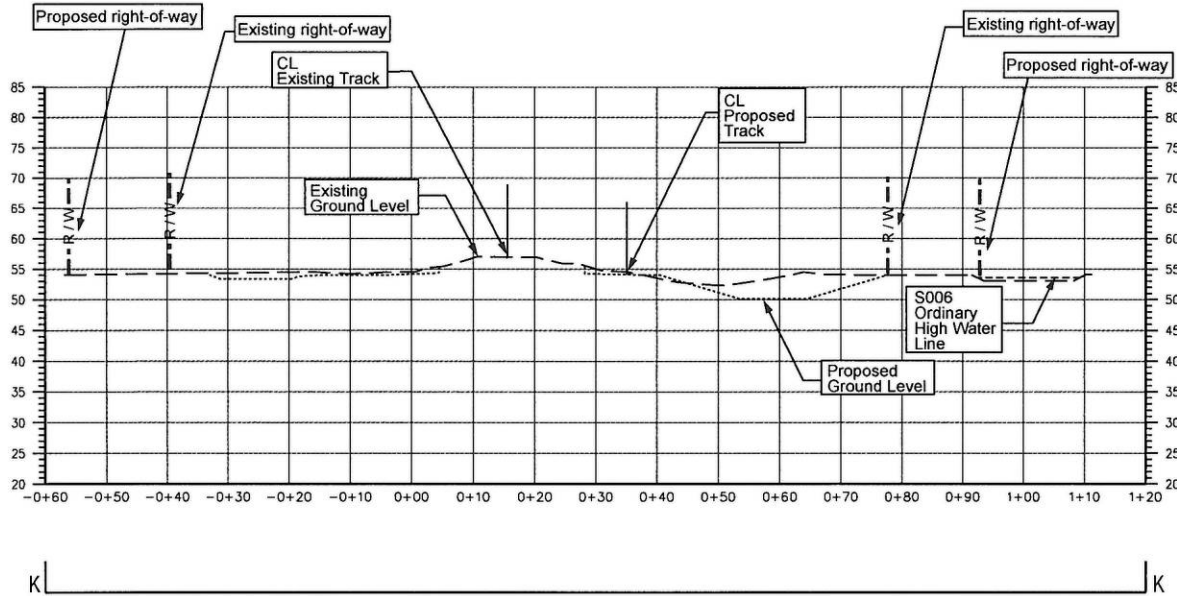
Applicant: Union Pacific Railroad
 File No.: SWG-2017-00657
 Waterway: Stream 4 (S004)
 Proposed Activity: Armor end of proposed culvert with riprap 5 CY
 Lat.: 29.953017
 Long.: -94.917576
 Station: 2335+00
 Liberty County, Texas
 Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146.
 Left on FM Road 1413 for 0.9 mile to intersection of the
 track and FM Road 1413.



DRAWN BY:	WORK ORDER:
CHECKED BY:	PID:
DATE:	BUDGET REF:
SCALE:	SHEET NUMBER
AS SHOWN	X11

UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design
LOCATION & DESCRIPTION:	
Mont Belvieu, TX Baytown Subdivision MP 40.61 to MP 42.78 Esperson Siding	
SHEET TITLE:	

Stream 6 (S006) Temporay Fill for Construction Workspace - Cross Section View K-K



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Waterway: Stream 6 (S006)
Proposed Activity: Temporary construction workspace clear vegetation and add temporary fill. Vegetation will be allowed to reestablish and temporary fill will be removed in its entirety and affected areas returned to pre-construction elevations.
Lat.: 29.955356
Long.: -94.917308
Station: 2344+00
Liberty County, Texas
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.

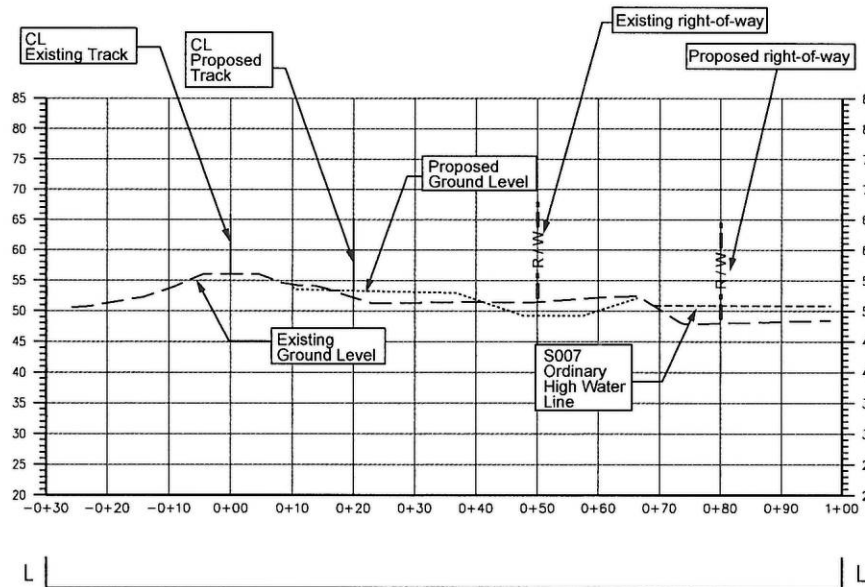


DRAWN BY:
CHECKED BY:
DATE: 02/26/2018
SCALE: AS SHOWN
WORK ORDER: 26873
PID: 88693
BUDGET REF: 14CP250
SHEET NUMBER: X12

UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design
LOCATION & DESCRIPTION: Mont Belvieu, TX
Baytown Subdivision MP 40.61 to MP 42.78
Esperson Siding
SHEET TITLE:

\$\$\$colorable\$\$\$
\$\$\$pentable\$\$\$

Stream 7 (S007) Temporay Fill for Construction Workspace -
Cross Section View L-L



Note:
Delineated March 11, March 16 and 17, and
October 7, 2015; and July 13, 2017



Applicant: Union Pacific Railroad
File No.: SWG-2017-00657
Waterway: Stream 7 (S007)
Proposed Activity: Temporary construction workspace clear vegetation and add temporary fill. Vegetation will be allowed to reestablish and temporary fill will be removed in its entirety and affected areas returned to pre-construction elevations.
Lat.: 29.933741
Long.: -94.915223
Station: 2264+80
Liberty County, Texas
Directions to site: From Mont Belvieu, Texas, 6.7 miles north on TX-146. Left on FM Road 1413 for 0.9 mile to intersection of the track and FM Road 1413.



DRAWN BY:	WORK ORDER:	UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design
CHECKED BY:	PID: 26873	
DATE: 02/26/2018	BUDGET REF: 88693	LOCATION & DESCRIPTION: Mont Belvieu, TX Baytown Subdivision MP 40.61 to MP 42.78 Esperson Siding
SCALE: AS SHOWN	SHEET NUMBER: 14CP250	
	SHEET TITLE: X13	

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