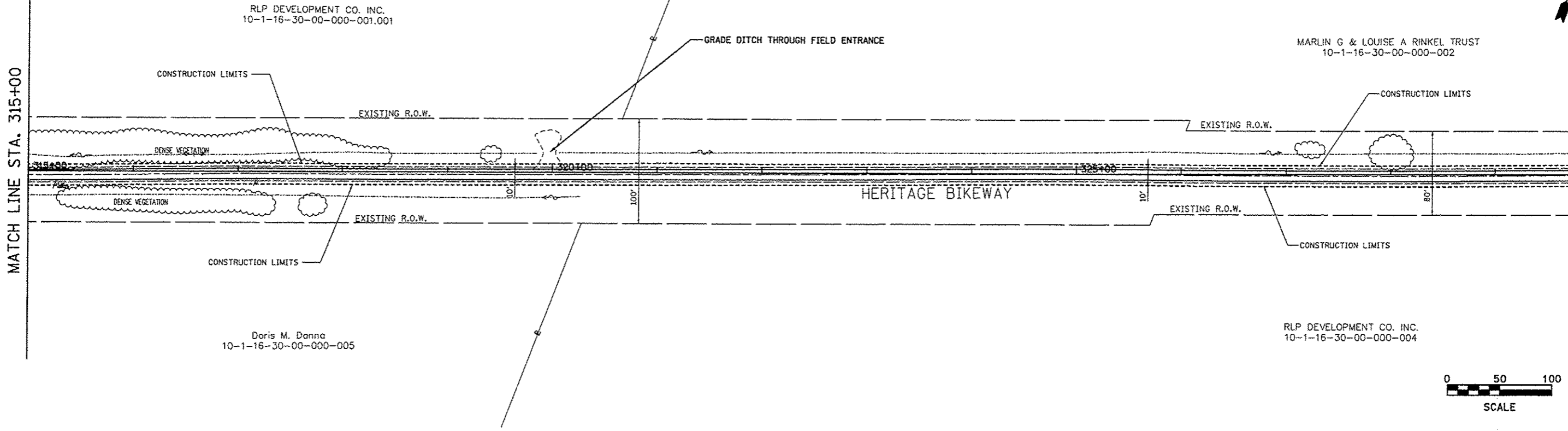


PLAN	SURVEYED	DATE
	ALIGNED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	BY	
	DATE	
	NOTE BOOK NO.	
	FILE NAME	

MATCH LINE STA. 315+00

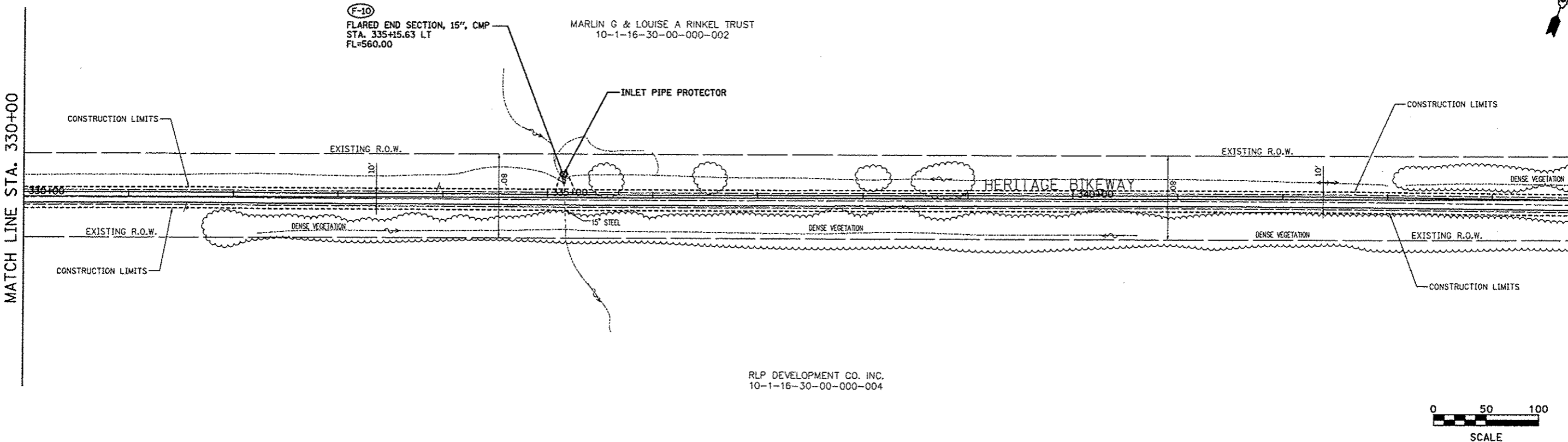
MATCH LINE STA. 330+00



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	BY	
	DATE	
	NOTE BOOK NO.	
	FILE NAME	

MATCH LINE STA. 330+00

MATCH LINE STA. 345+00



FILE NAME =	USER NAME =
drain_18.dgn	Jeremy

DESIGNED -	SAS
DRAWN -	SAS
CHECKED -	WJB
DATE -	11/30/12

PLOT SCALE =	#SCALE#
PLOT DATE =	12/18/2012

SCALE: 1" = 50'
SHEET NO. 14 OF 23 SHEETS
STA. 315+00.00 TO STA. 345+00.00

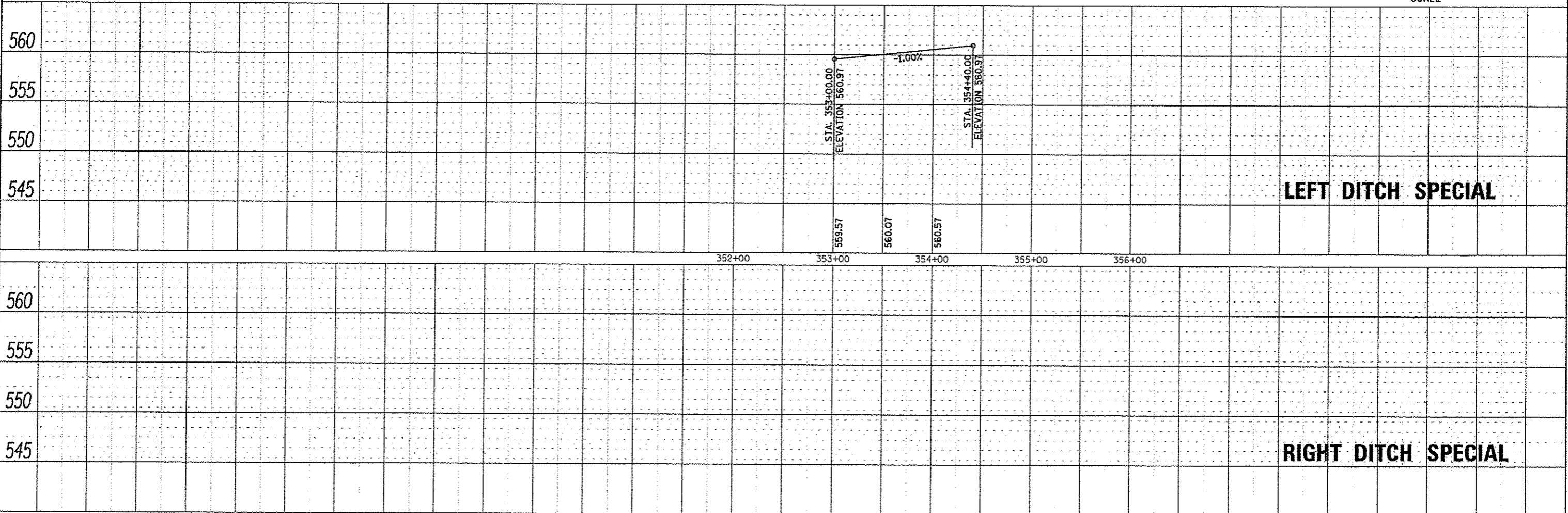
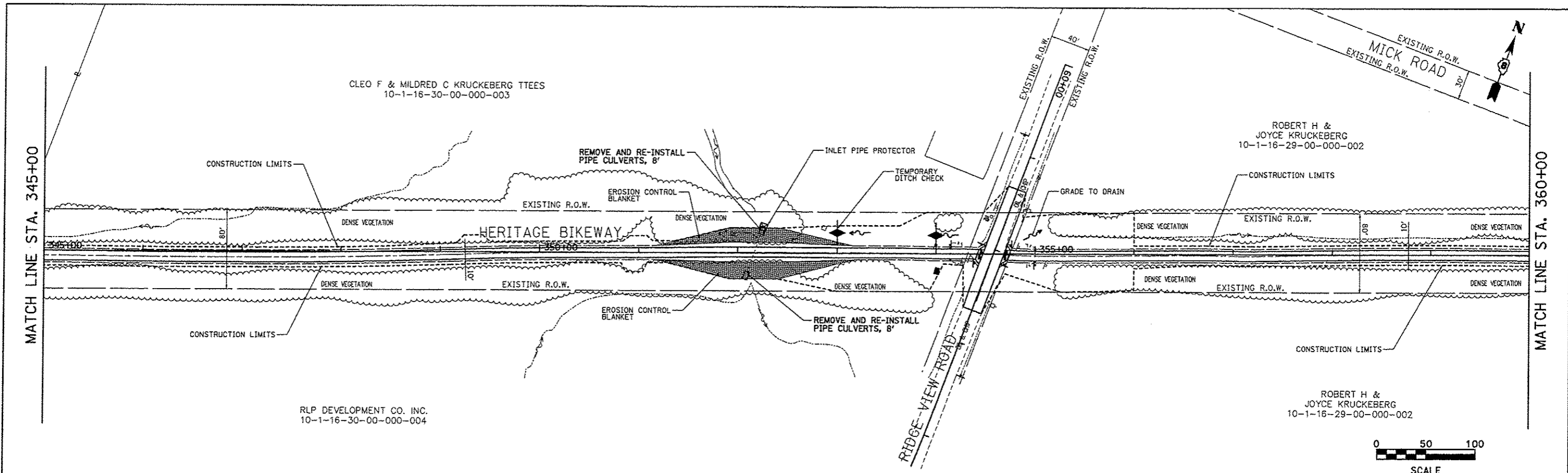
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

DRAINAGE & EROSION CONTROL PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	101
				CONTRACT NO. 97433
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	REVISIONS	
	NO. OF REVISIONS	
	DATE	
	BY	
	REVISIONS	
	NO. OF REVISIONS	
	DATE	
	BY	

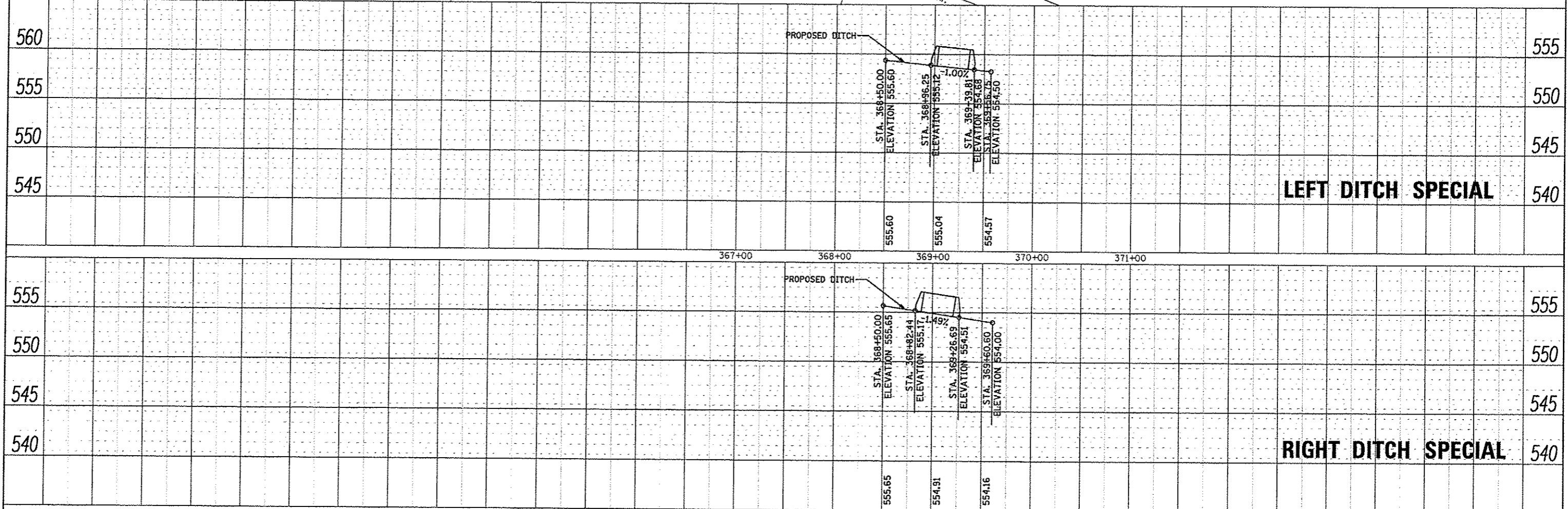
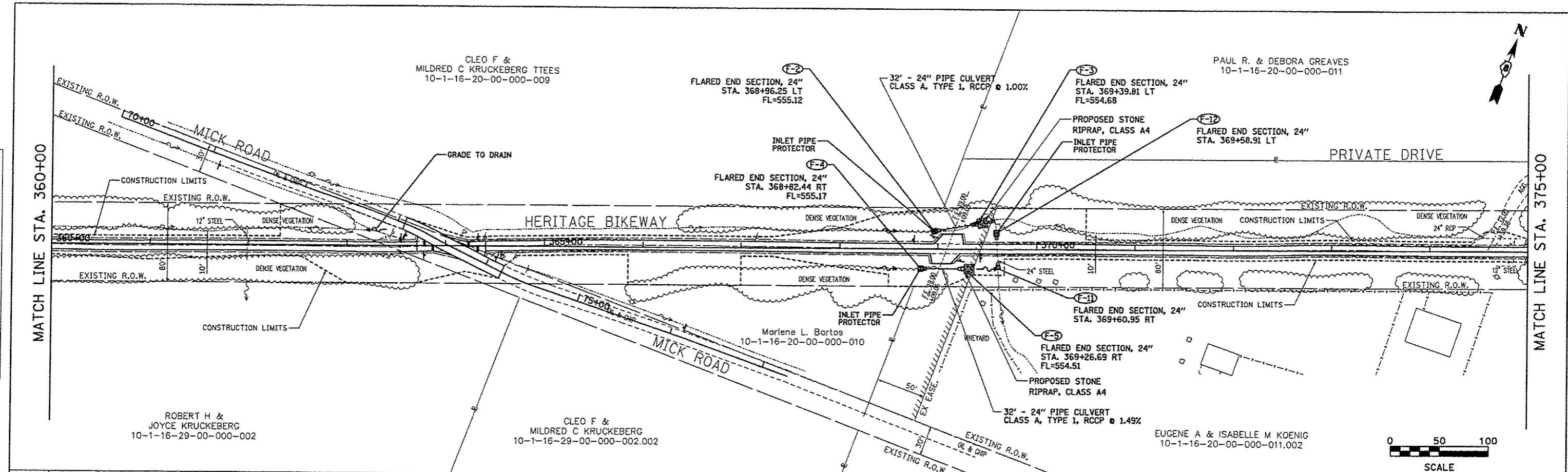
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	REVISIONS	
	NO. OF REVISIONS	
	DATE	
	BY	
	REVISIONS	
	NO. OF REVISIONS	
	DATE	
	BY	



FILE NAME * drain_11.dgn	USER NAME * jeremy	DESIGNED - SAS	REVISIONS - -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	DRAINAGE & EROSION CONTROL PLAN			F.A. RTE.	SECTION 06-00016-00-BT	COUNTY MADISON	TOTAL SHEETS 310	SHEET NO. 102
	PLOT SCALE * #SCALE#	DRAWN - WJB	REVISIONS - -		SCALE: 1"=50'	SHEET NO. 15 OF 23 SHEETS	STA. 465+00.00 TO STA. 495+00.00	CONTRACT NO.				
	PLOT DATE * 12/16/2012	CHECKED - 11/30/12	REVISIONS - -		ILLINOIS FED. AID PROJECT							

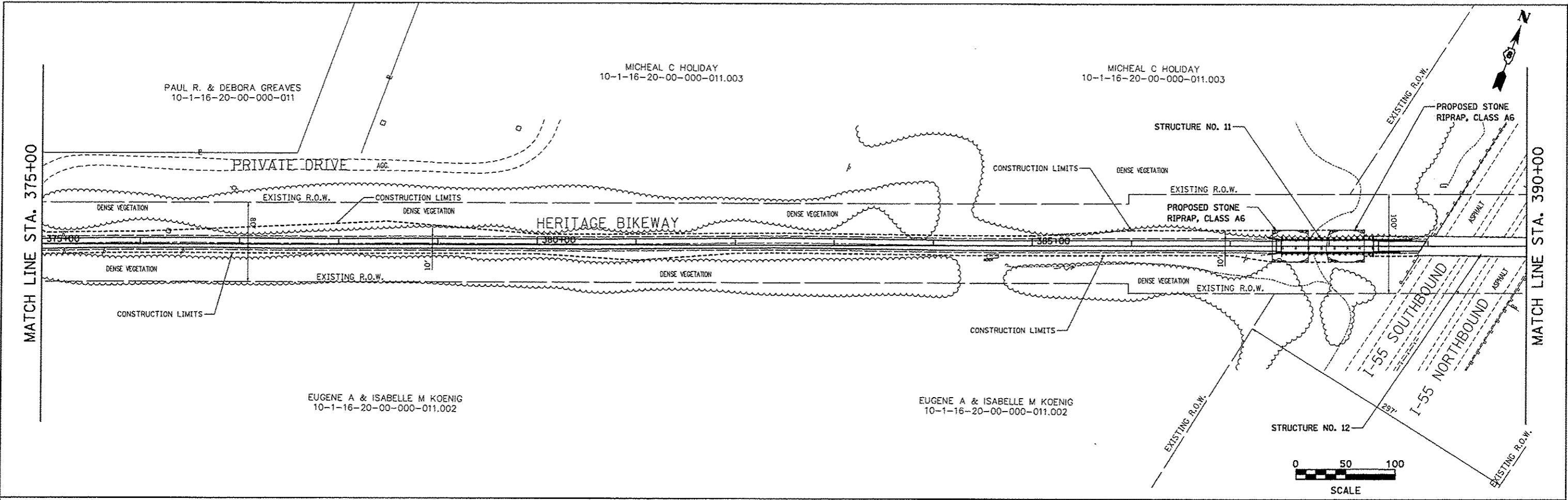
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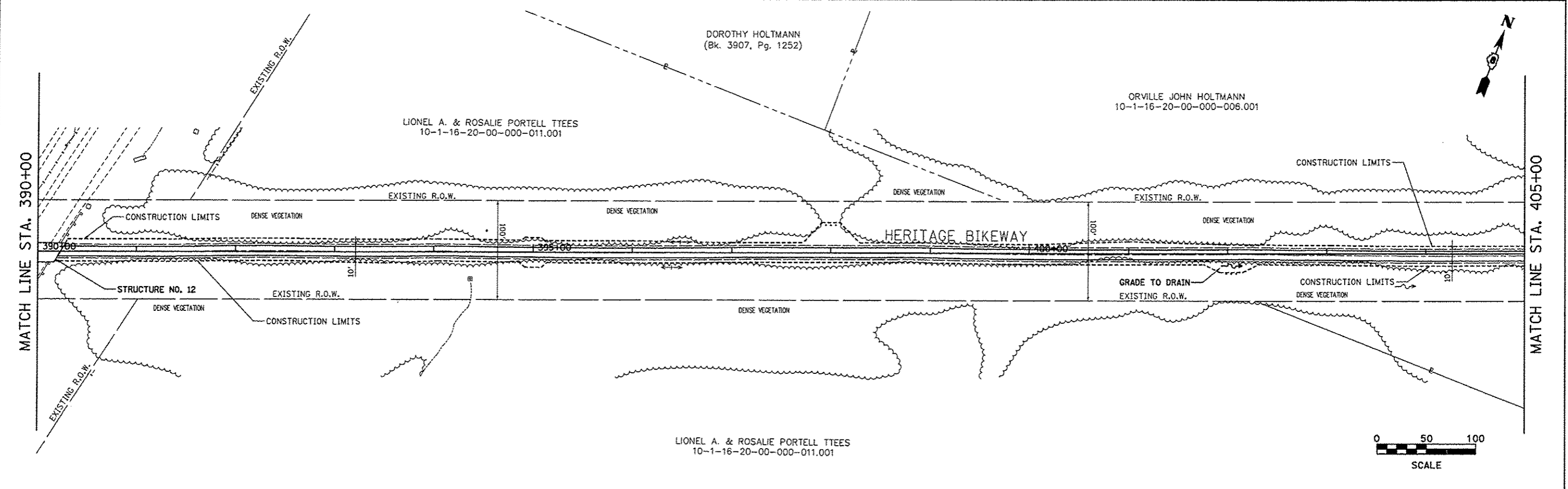


FILE NAME * dren_12.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISIONS - -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	DRAINAGE & EROSION CONTROL PLAN		F.A. RTE.	SECTION 06-00016-00-BT	COUNTY MADISON	TOTAL SHEETS 310	SHEET NO. 103
	PLOT SCALE * SCALE	CHECKED - SAS	REVISIONS - -		SCALE: 1"=50'	SHEET NO. 16 OF 23 SHEETS	STA. 360+00.00 TO STA. 375+00.00	CONTRACT NO.		ILLINOIS FED. AID PROJECT	
	PLOT DATE * 12/10/2012	DRAWN - WJB	REVISIONS - -								
		CHECKED - 11/30/12	REVISIONS - -								

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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	DATE _____	
	BY _____	



FILE NAME = g:\rein-33.dgn

USER NAME = jeramy	DESIGNED = SAS
PLLOT SCALE = #SCALE#	DRAWN = SAS
PLLOT DATE = 12/18/2012	CHECKED = WJB
	DATE = 11/30/12

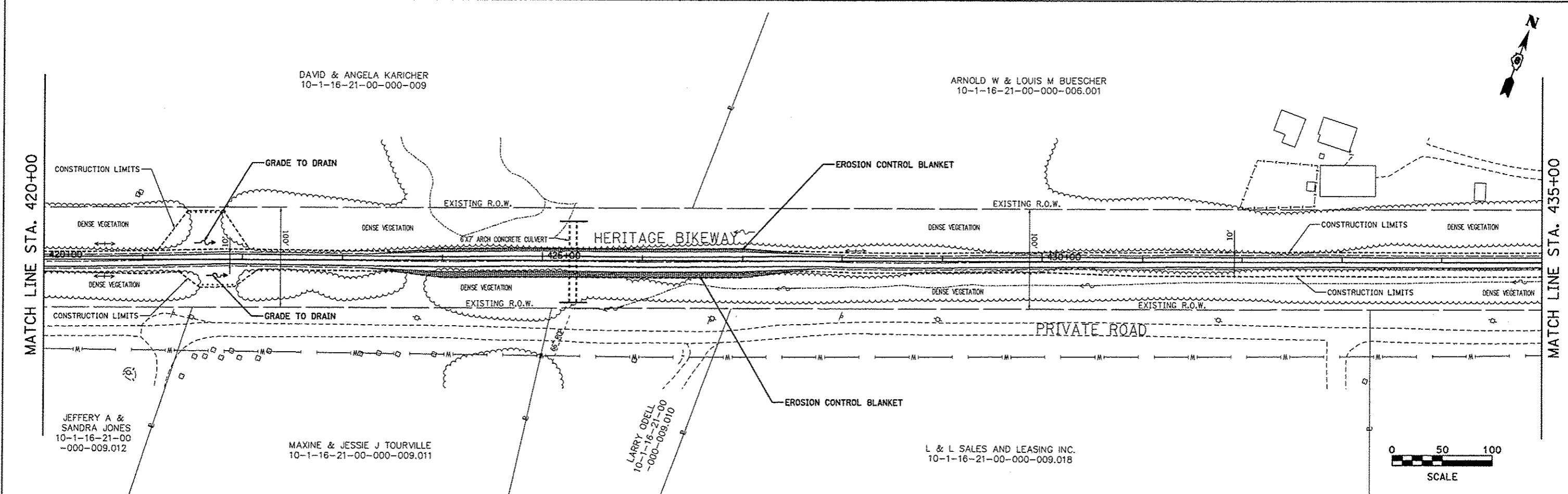
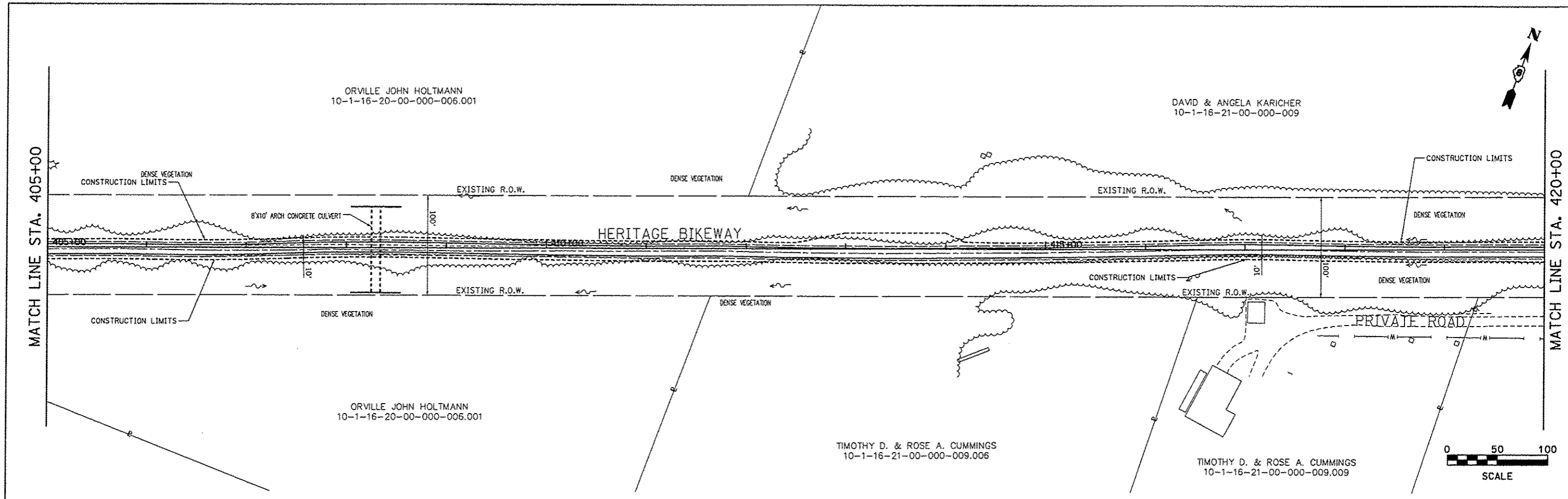
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

DRAINAGE & EROSION CONTROL PLAN	
SCALE: 1" = 50'	SHEET NO. 17 OF 23 SHEETS
STA. 375+00.00 TO STA. 405+00.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	104
CONTRACT NO. 97433				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	DATE
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PROFILE	DATE
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FILE NAME =	rain_14.dgn
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USER NAME =	Jeremy
DESIGNED =	SAS
DRAWN =	SAS
CHECKED =	WJB
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PLLOT SCALE =	#SCALE#
PLLOT DATE =	12/18/2012

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

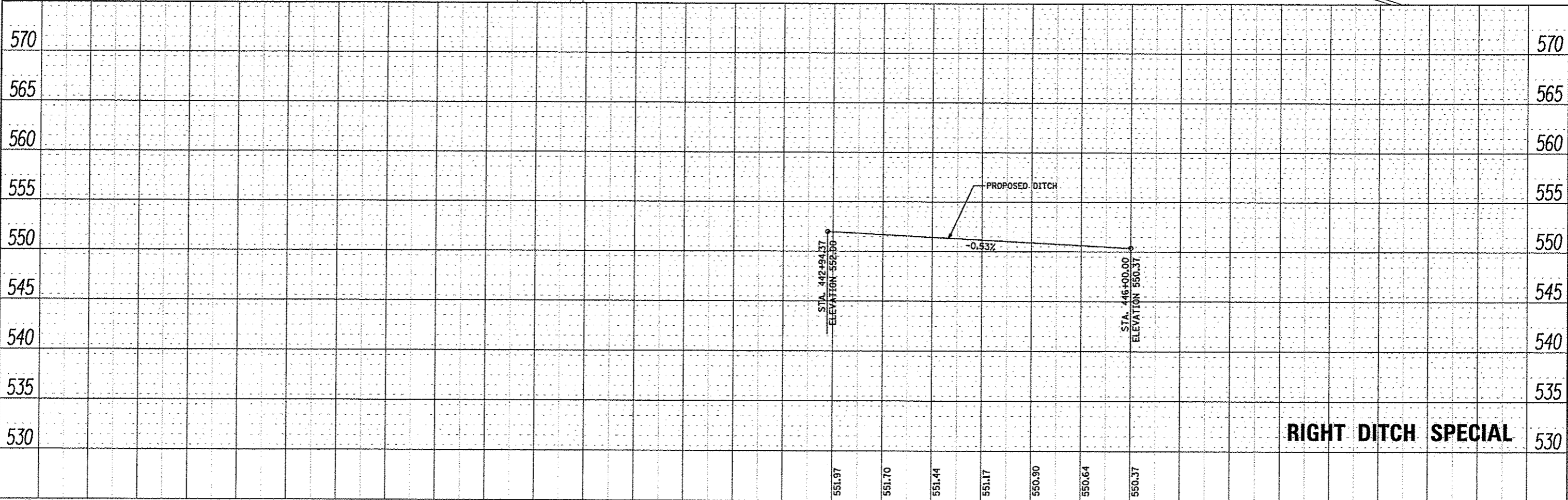
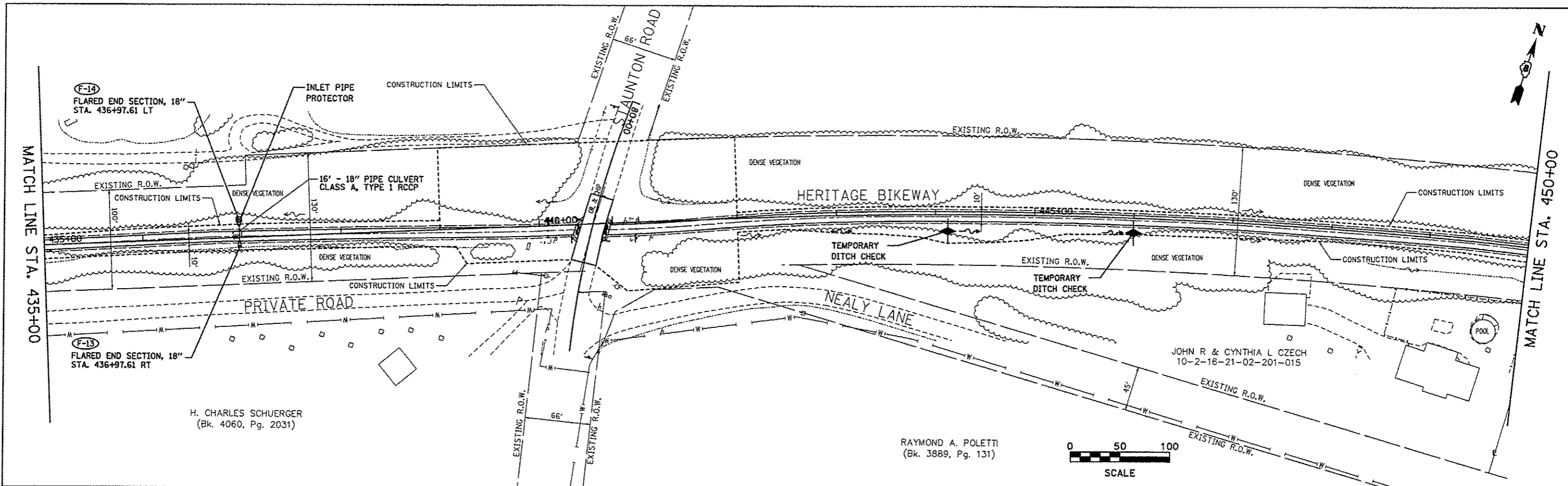
DRAINAGE & EROSION CONTROL PLAN

SCALE: 1" = 50' SHEET NO. 18 OF 23 SHEETS STA. 405+00.00 TO STA. 435+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	105
				CONTRACT NO. 97433
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

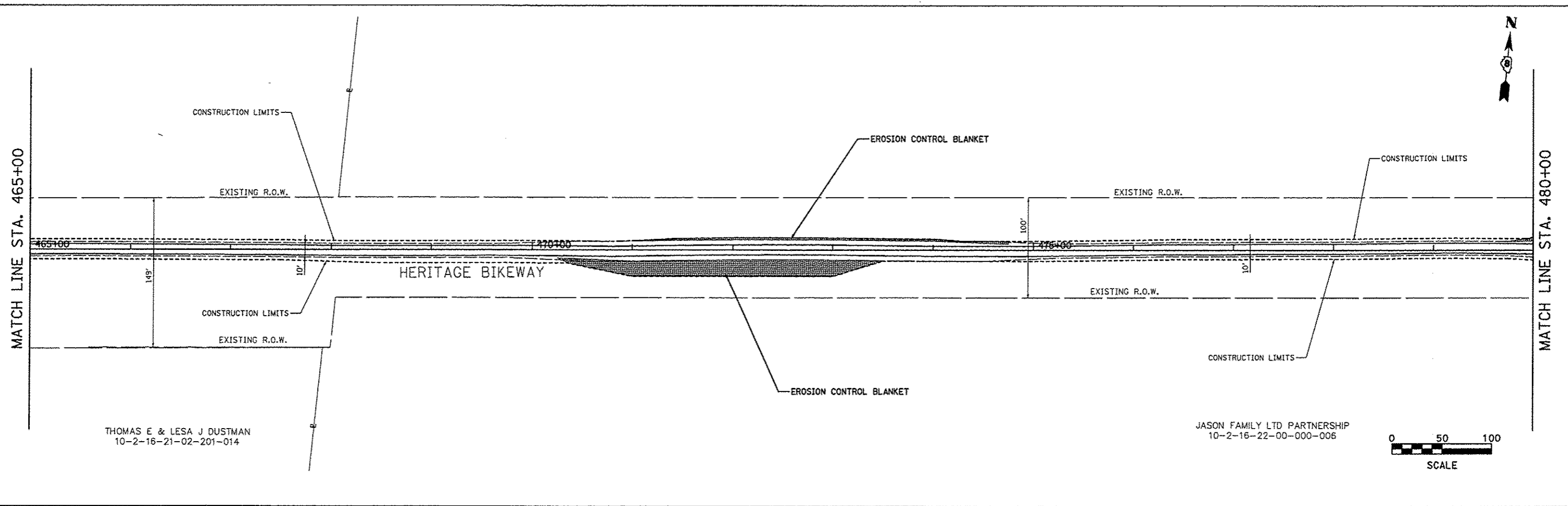
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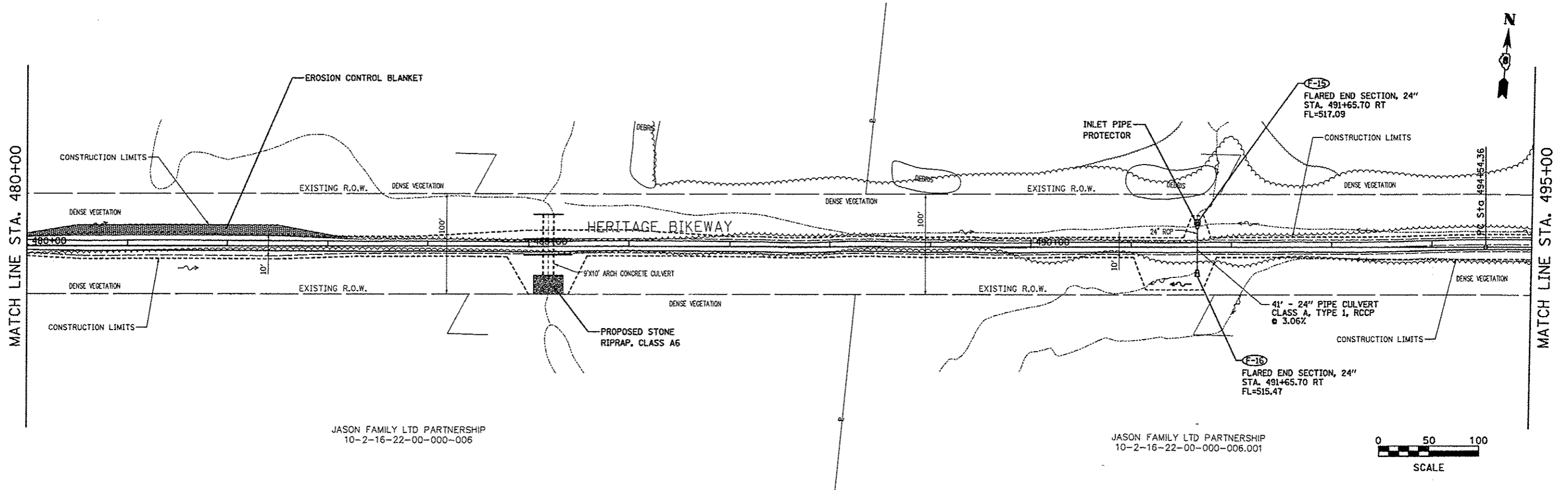


35+00	36+00	37+00	38+00	39+00	40+00	41+00	42+00	43+00	44+00	45+00	46+00	47+00	48+00	49+00	50+00					
FILE NAME = drain 15.dgn USER NAME = Jeremy DESIGNED - SAS DRAWN - SAS CHECKED - WJB DATE - 11/30/12												MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY			DRAINAGE & EROSION CONTROL PLAN			F.A. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. 06-00016-00-BT MADISON 310 106 CONTRACT NO. 97433		
SCALE: 1" = 50'												SHEET NO. 19 OF 23 SHEETS			STA. 435+00.00 TO STA. 465+00.00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

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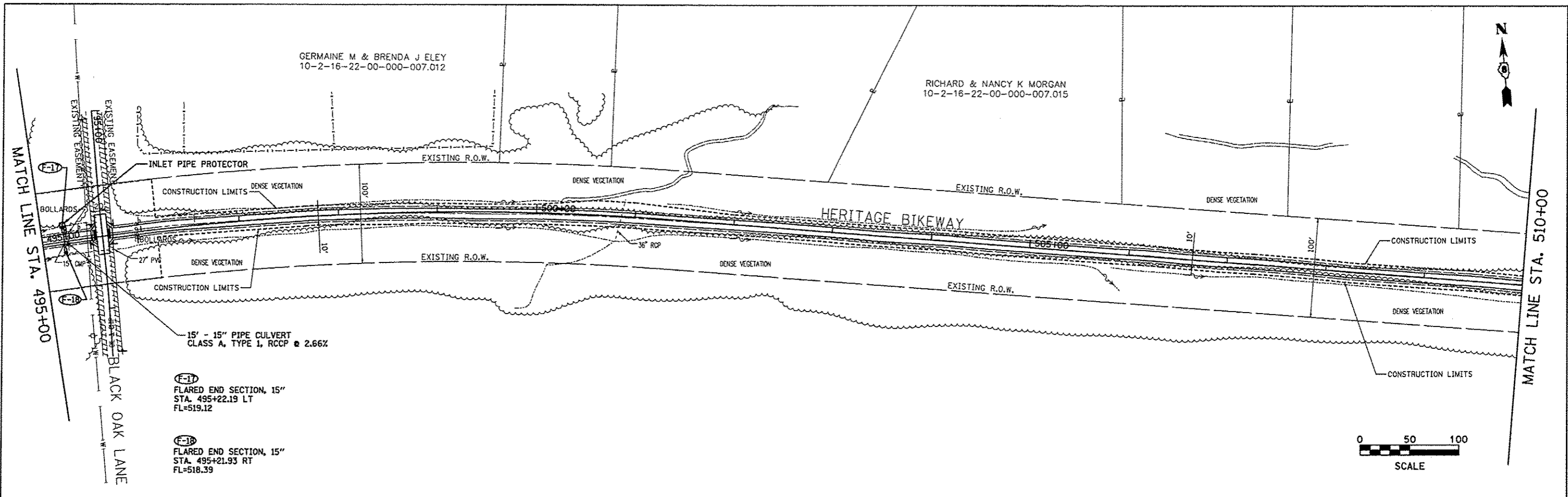


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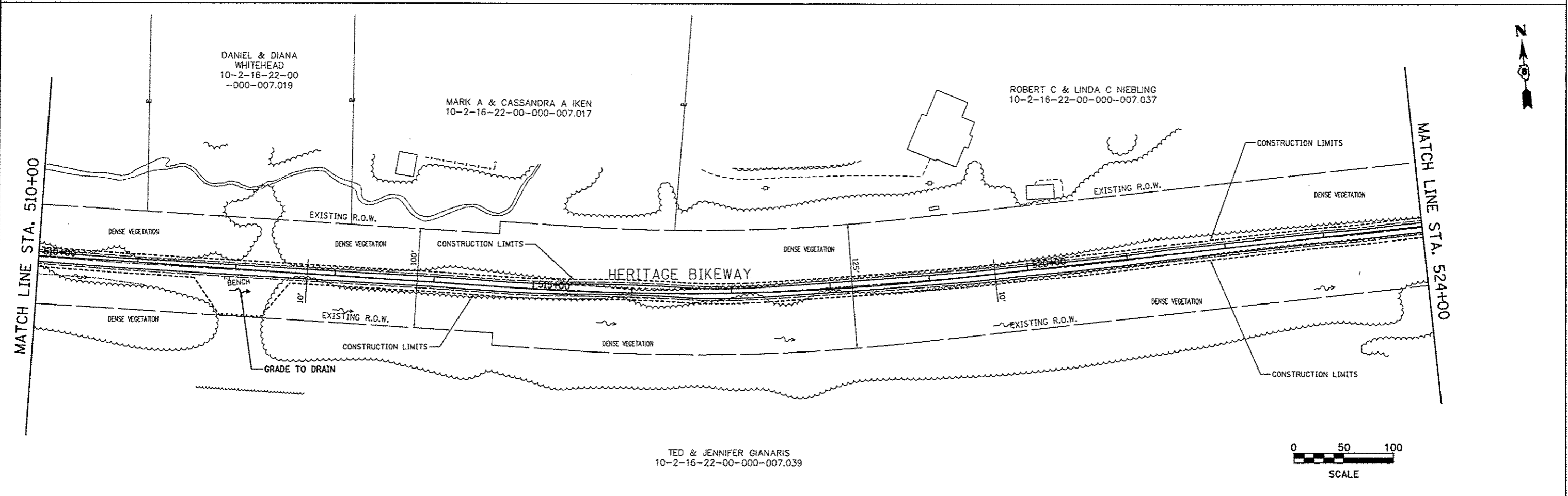


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		DRAWN - SAS		SCALE: 1" = 50'	SHEET NO. 21 OF 23 SHEETS	STA. 465+00.00 TO STA. 495+00.00	06-00016-00-BT	MADISON	310	108
		CHECKED - WJB					CONTRACT NO. 97433			
		DATE - 11/30/12					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			

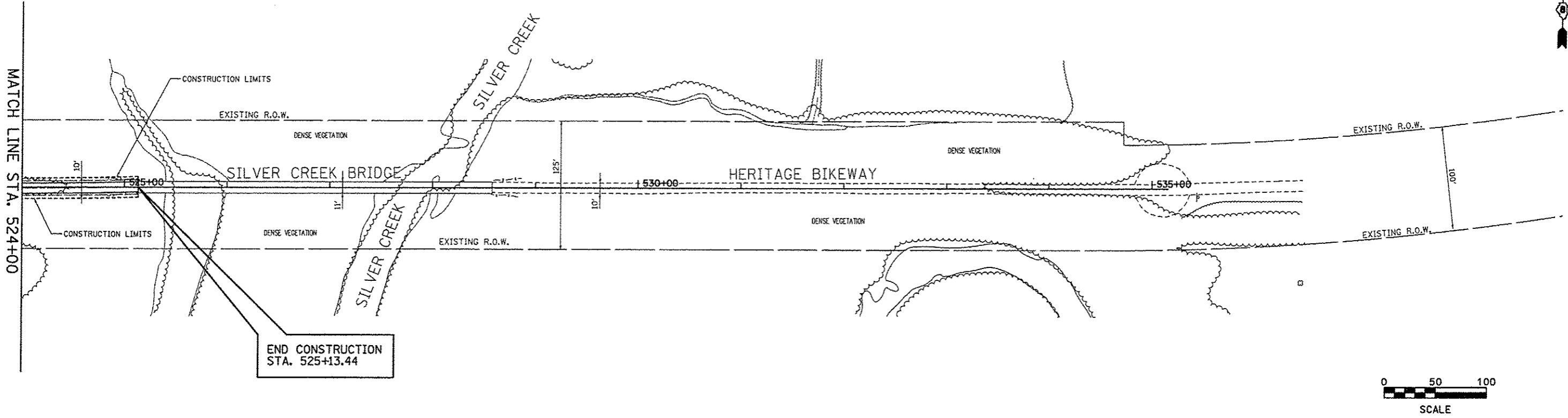
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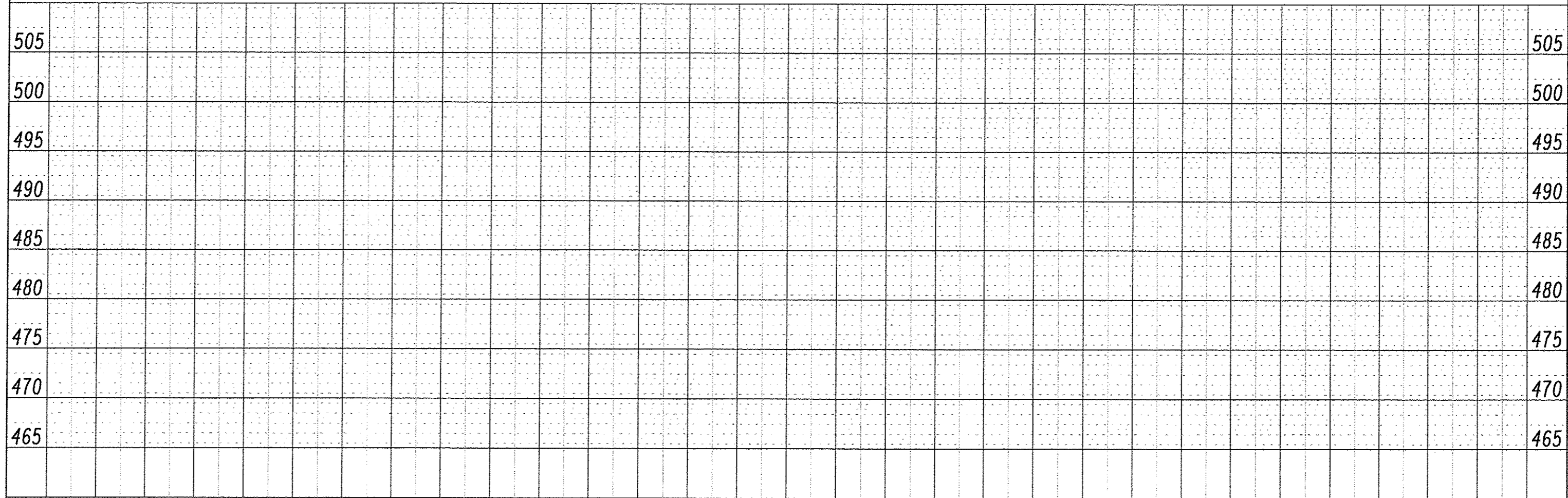


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		DRAWN - SAS		SCALE: 1" = 50'			06-00016-00-BT	MADISON	310	109	
		CHECKED - WJB		SHEET NO. 22 OF 23 SHEETS			MADISON COUNTY CONTRACT NO. 97433				
		DATE - 11/30/12		STA. 495+00.00 TO STA. 524+00.00			ILLINOIS FED. AID PROJECT				

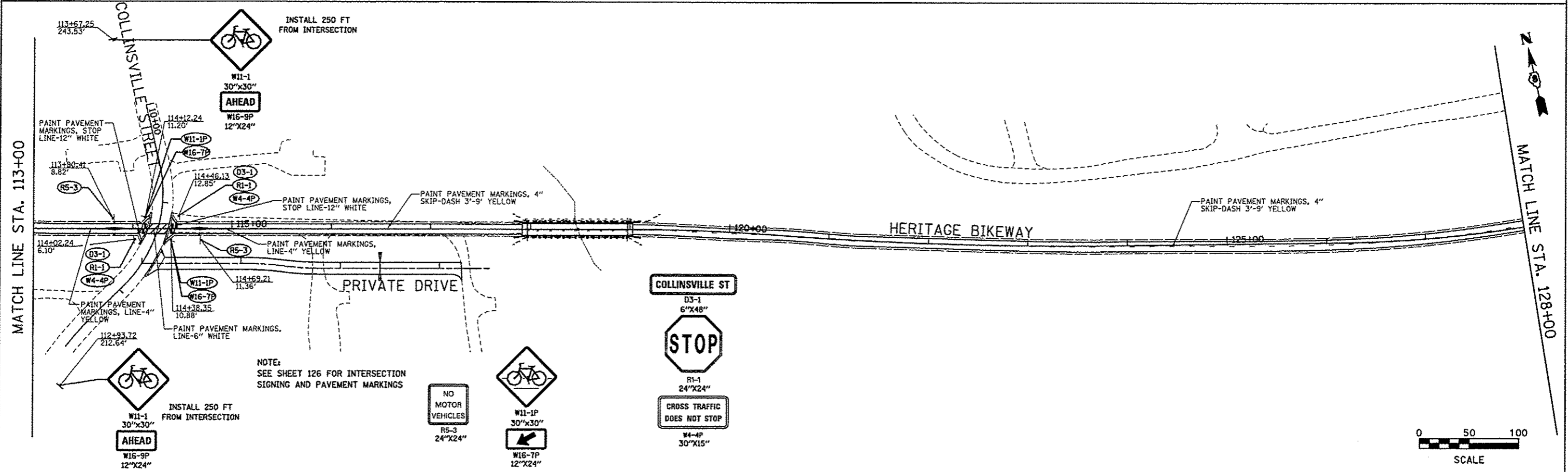
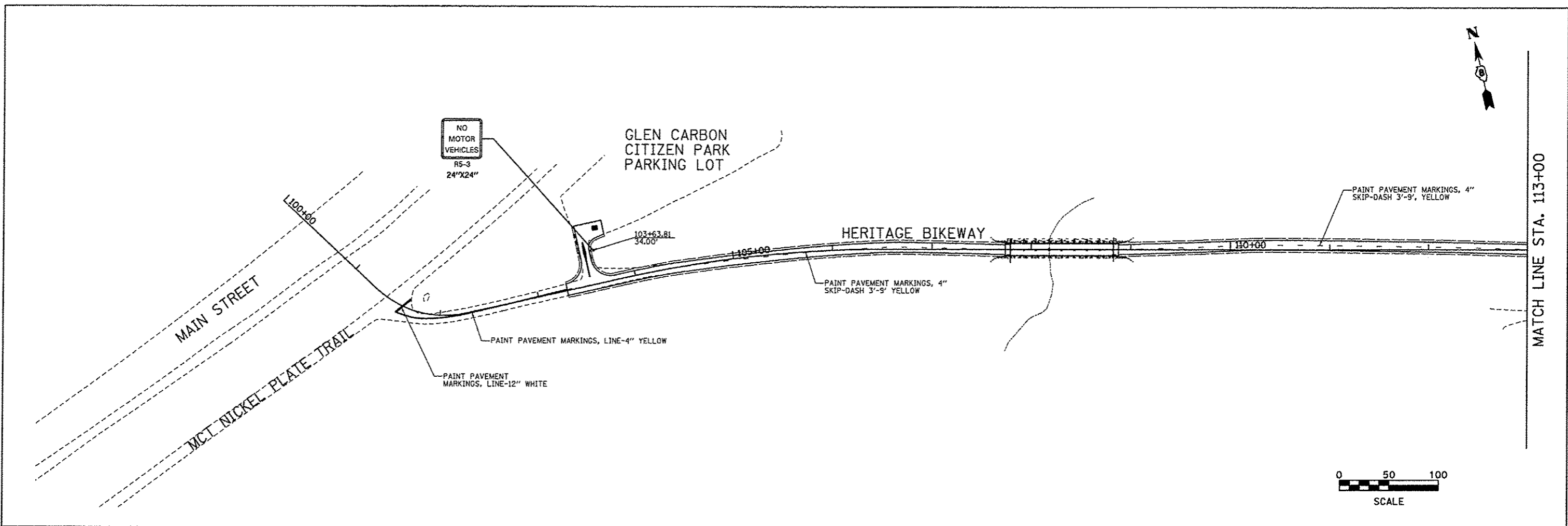


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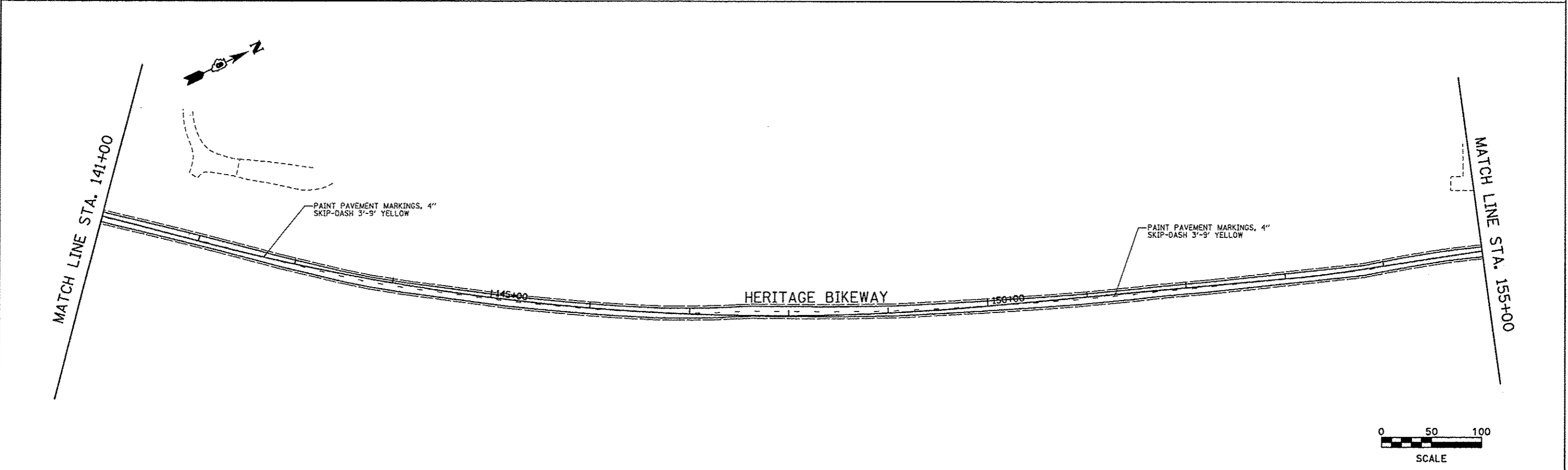
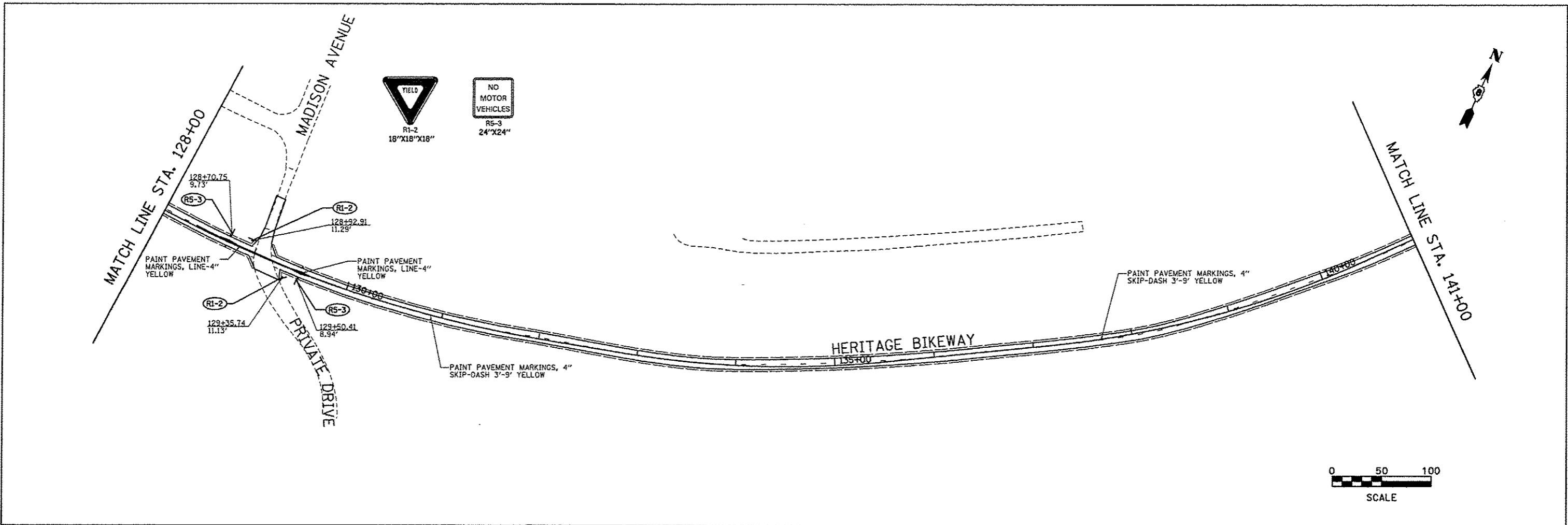


FILE NAME = dram_18.dgn	USER NAME = Jeremy	DESIGNED - SAS	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	DRAINAGE & EROSION CONTROL PLAN		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = #SCALE#	CHECKED - WJB	SCALE: 1" = 50'		SHEET NO. 23 OF 23 SHEETS	STA. 524+00.00 TO STA. 535+00.00	06-00016-00-BT	MADISON	310	110	
PLOT DATE = 12/18/2012	DATE - 11/30/12	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 97433				

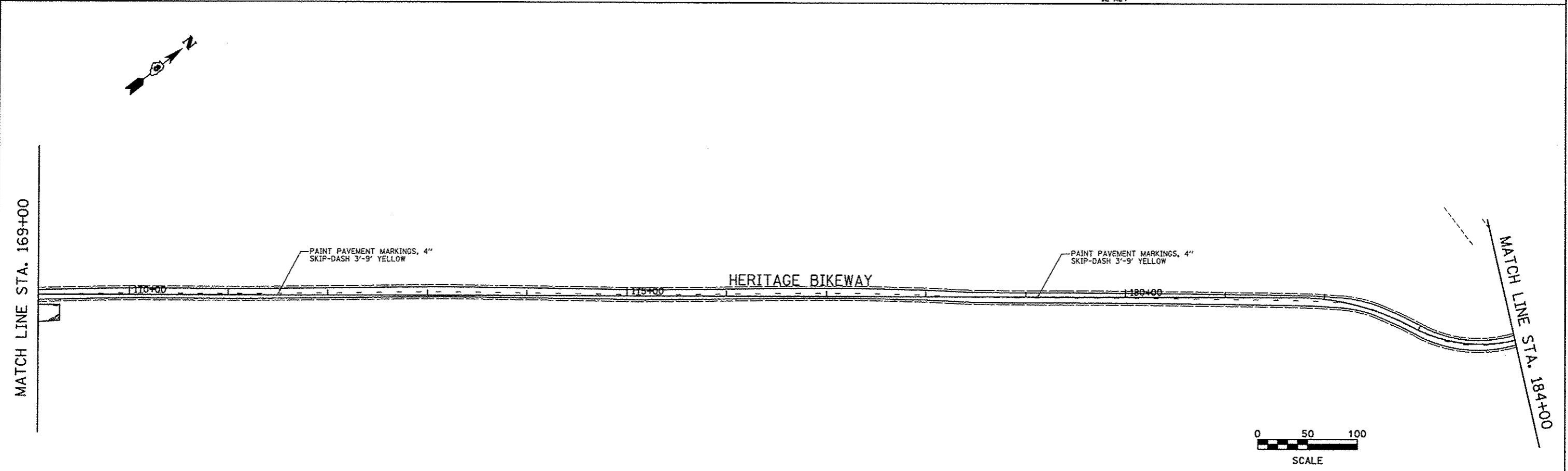
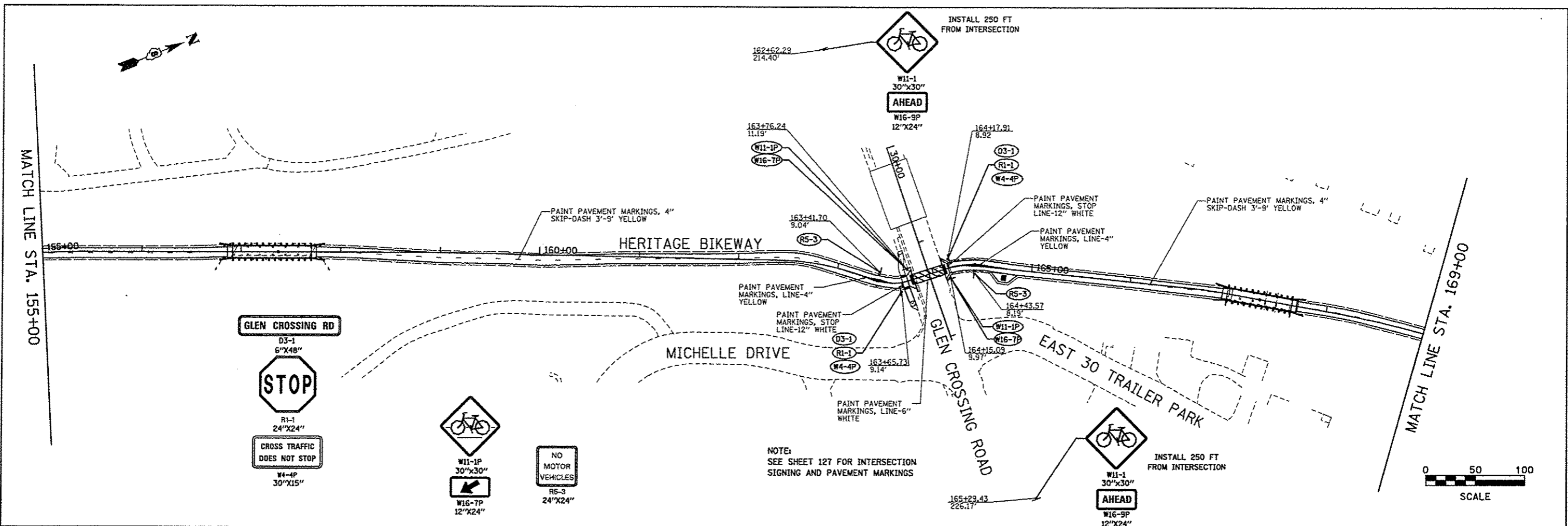


NOTE:
SEE SHEET 126 FOR INTERSECTION
SIGNING AND PAVEMENT MARKINGS

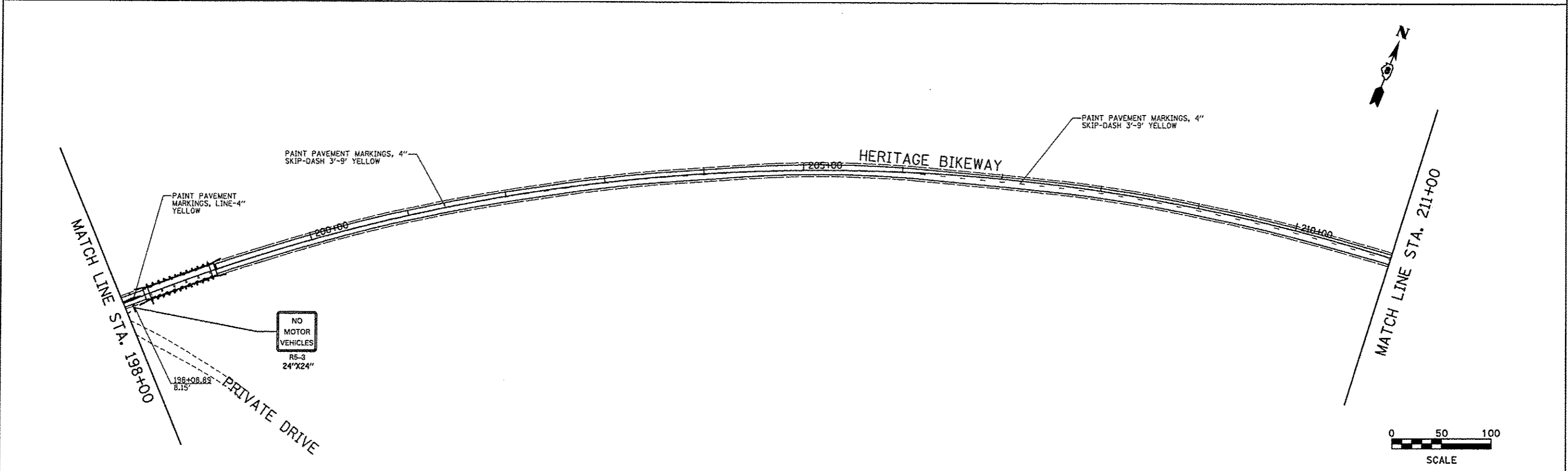
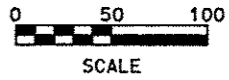
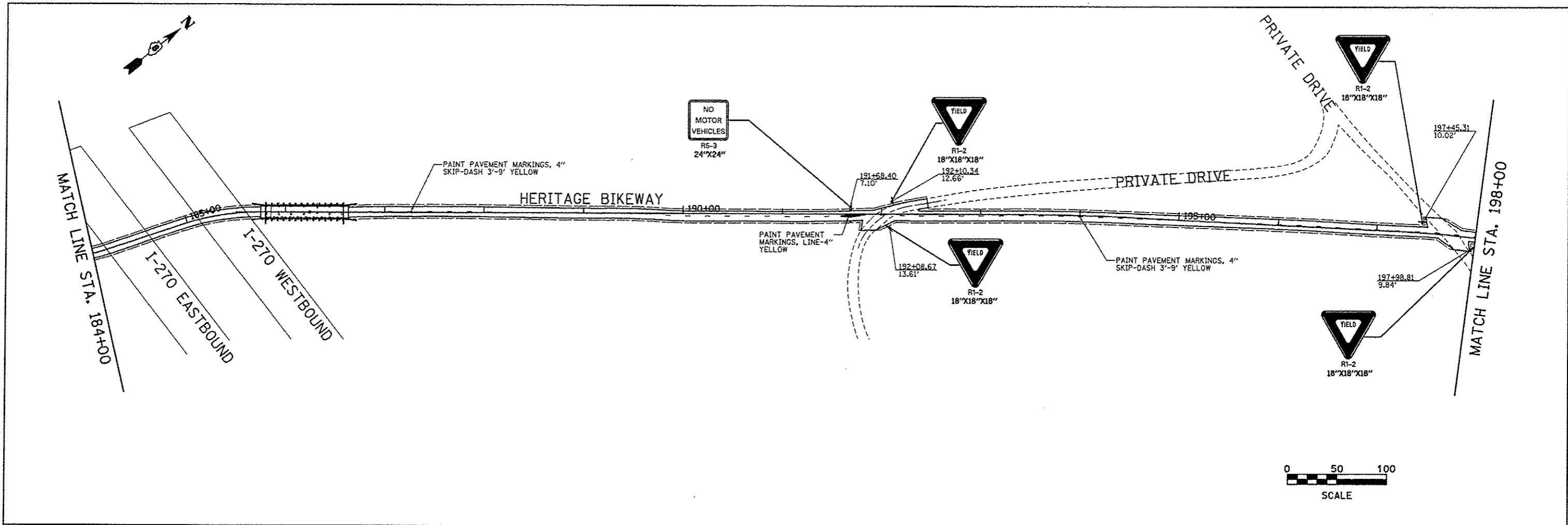
FILE NAME * pmark_01.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE#	CHECKED - WJB	REVISED -		SCALE: 1" = 50'	SHEET NO. 1 OF 22 SHEETS	STA. 103+29.81 TO STA. 128+00.00	06-00016-00-BT	MADISON	310	111	
PLOT DATE = 12/19/2012	DATE = 11/30/12	REVISED -					CONTRACT NO. 97433					
							FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					



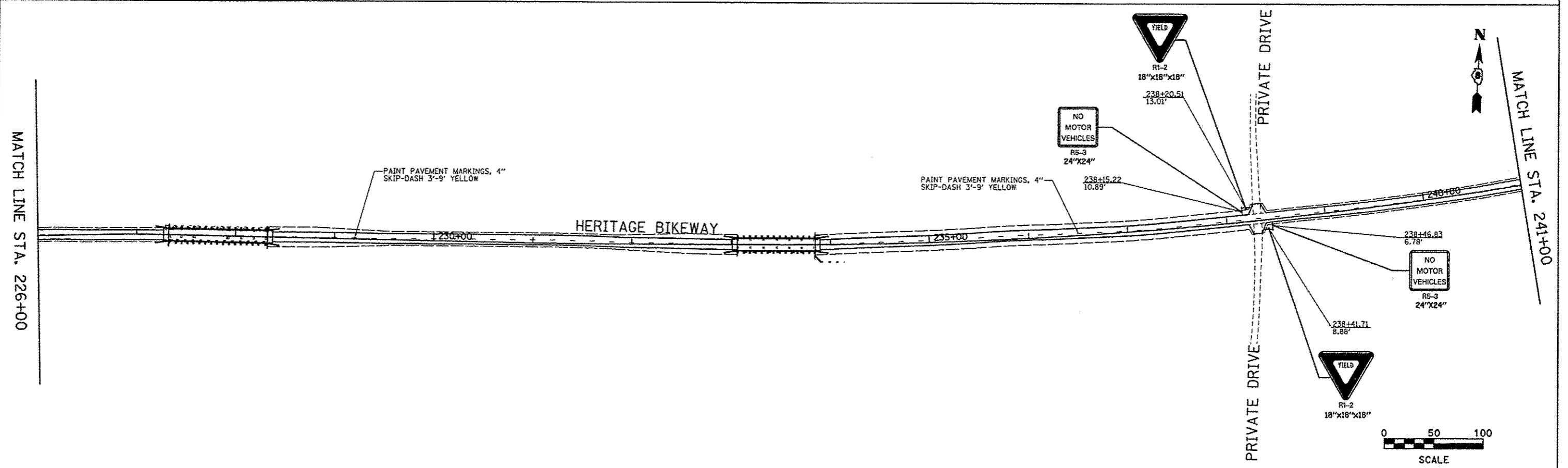
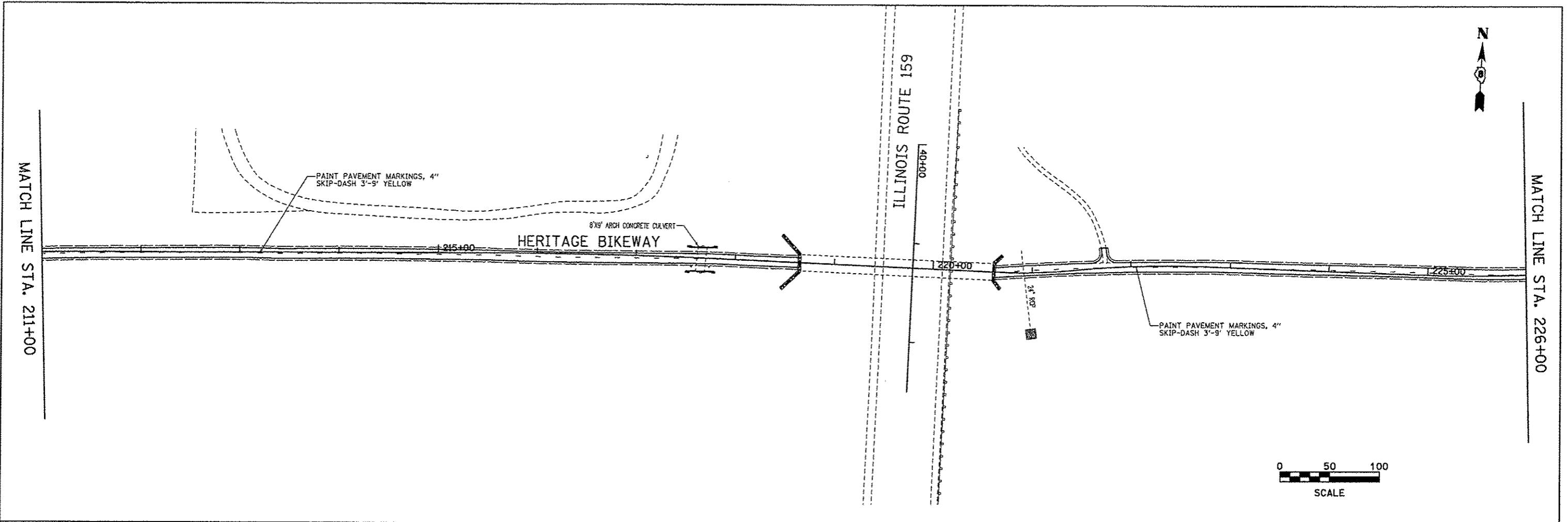
FILE NAME * pma-rk_02.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLT SCALE * #SCALE*	CHECKED - WJB	REVISED -					06-00016-00-BT	MADISON	310	112	
	PLT DATE * 12/18/2012	DATE - 11/30/12	REVISED -		SCALE: 1" = 50' SHEET NO. 2 OF 22 SHEETS STA. 128+00.00 TO STA. 155+00.00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 97433		



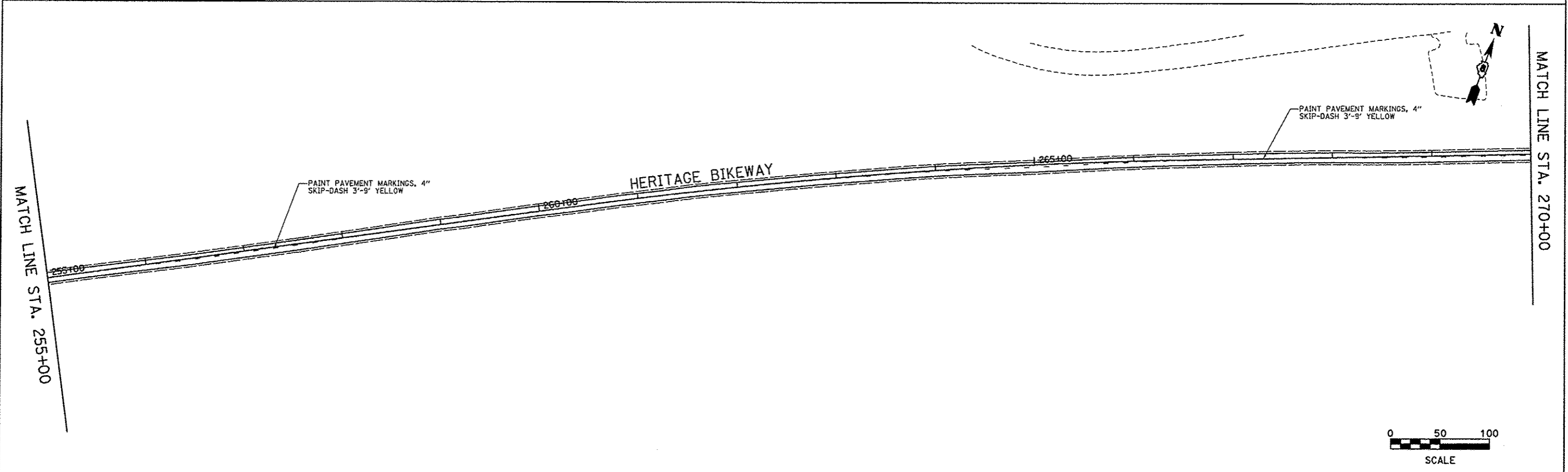
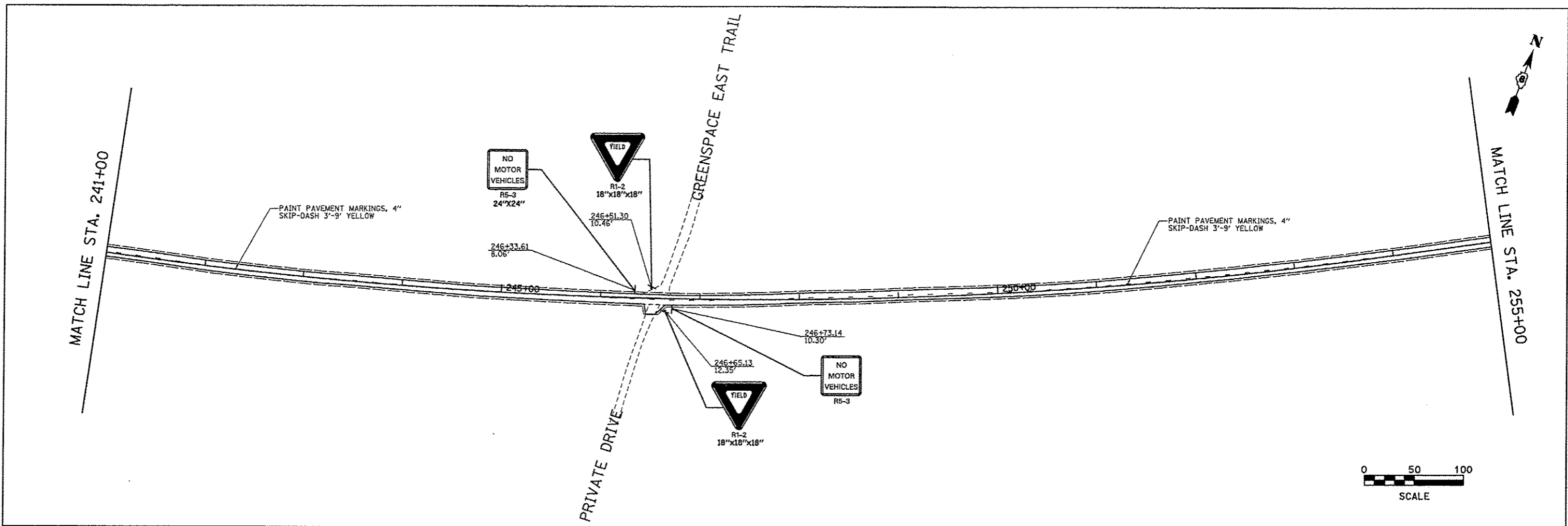
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		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 22 SHEETS	STA. 155+00.00 TO STA. 184+00.00	06-00016-00-BT	MADISON	310	113	
		CHECKED - WJB	REVISED -									
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 97433



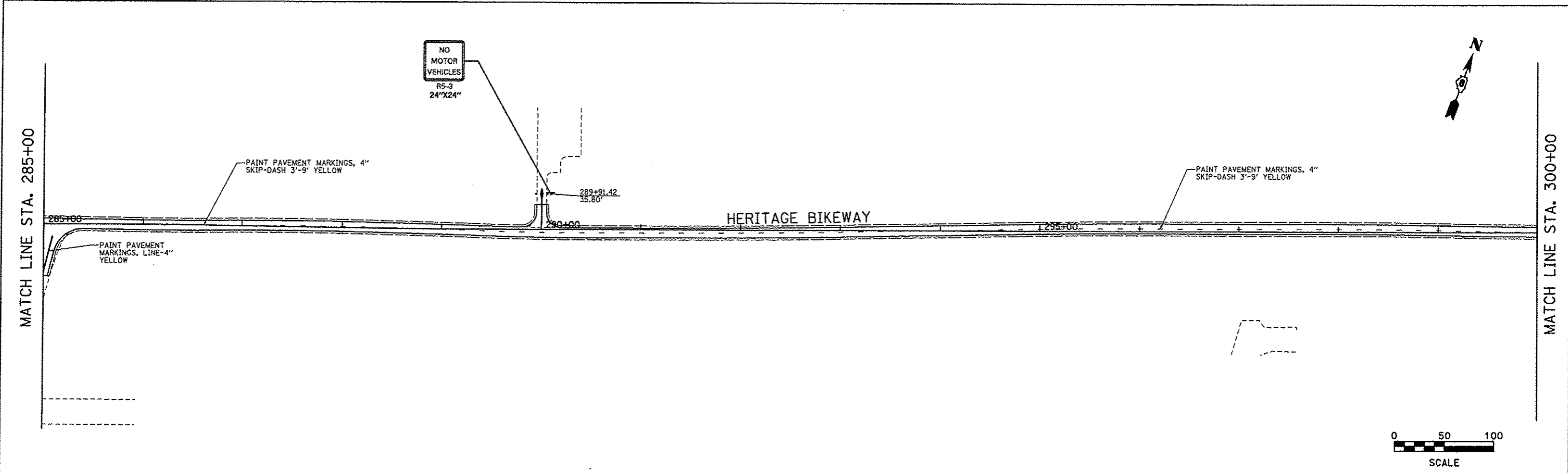
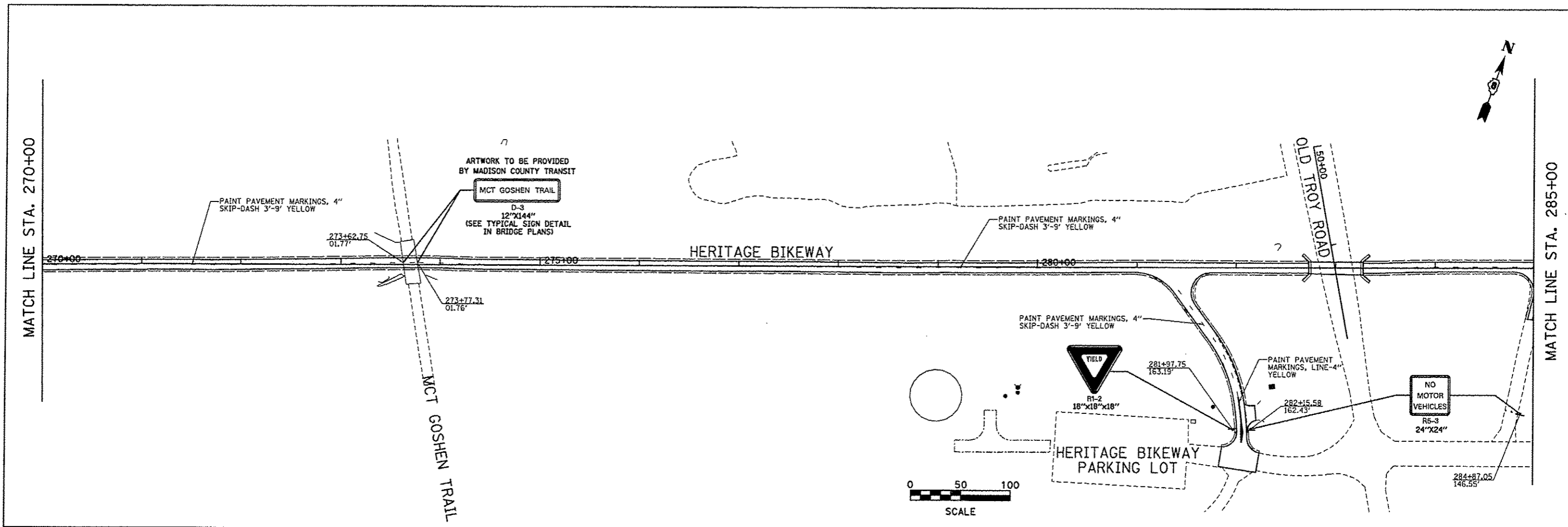
FILE NAME * pmark_04.dgn	USER NAME * jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE#	CHECKED - WJB	REVISED -		06-00016-00-BT	MADISON	310	114				
	PLOT DATE * 12/18/2012	DATE - 11/30/12	REVISED -		CONTRACT NO. 97433							
					SCALE: 1" = 50'	SHEET NO. 4 OF 22 SHEETS	STA. 184+00.00 TO STA. 211+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FILE NAME = pmerk_05.dgn	USER NAME = jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 5 OF 22 SHEETS	STA. 211+00.00 TO STA. 241+00.00	06-00016-00-BT	MADISON	310	115	
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		DATE - 11/30/12	REVISED -					ILLINOIS FED. AID PROJECT				



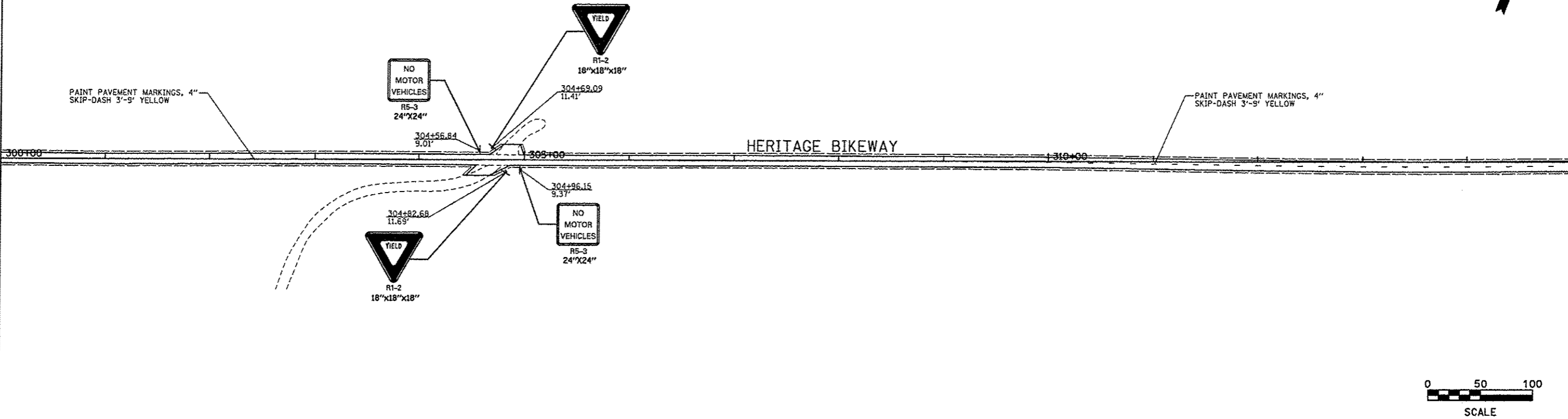
FILE NAME * pma-rk.06.dgn	USER NAME * jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - JOH	REVISED -		SCALE: 1" = 50'	SHEET NO. 6 OF 22 SHEETS	STA. 241+00.00 TO STA. 270+00.00	06-00016-00-BT	MADISON	310	116	
	PLOT DATE * 12/18/2012	CHECKED - WJB	REVISED -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



FILE NAME pmark_07.dgn	USER NAME jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - JDH	REVISED -		06-00016-00-BT	MADISON	310	117			
PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED -	CONTRACT NO. 97433								
DATE - 11/30/12	REVISED -	SCALE: 1" = 50'			SHEET NO. 7 OF 22 SHEETS	STA. 270+00.00 TO STA. 300+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

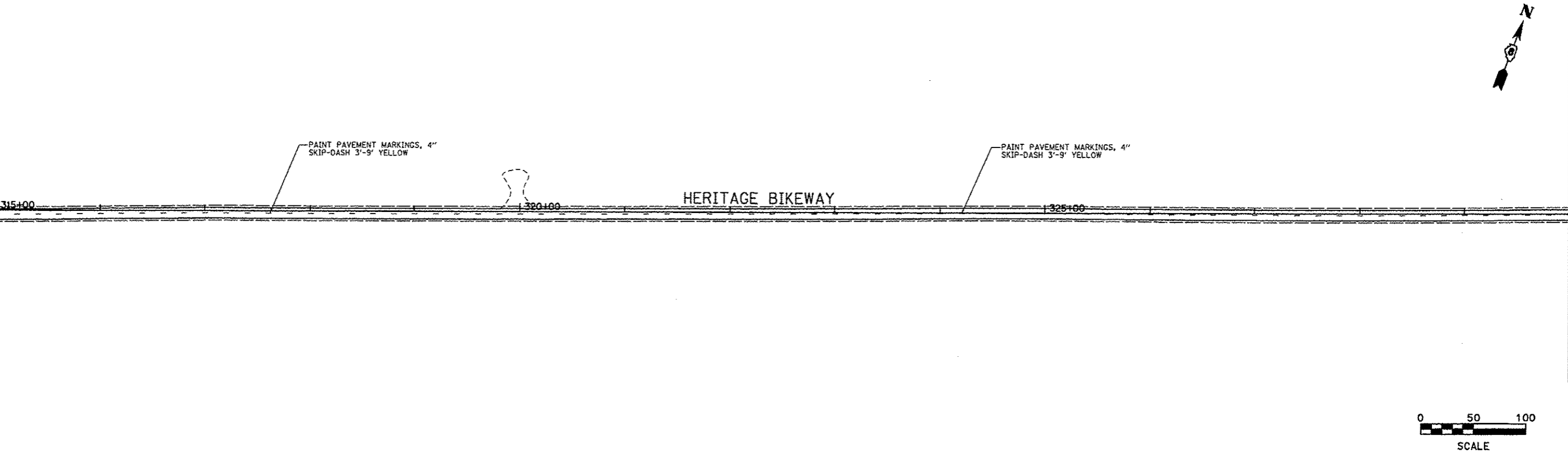
MATCH LINE STA. 300+00

MATCH LINE STA. 315+00



MATCH LINE STA. 315+00

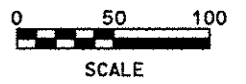
MATCH LINE STA. 330+00



FILE NAME * pmark_08.dgn	USER NAME * jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 8 OF 22 SHEETS	STA. 300+00.00 TO STA. 330+00.00	06-00016-00-BT	MADISON	310	118	
	PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

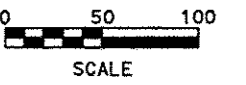
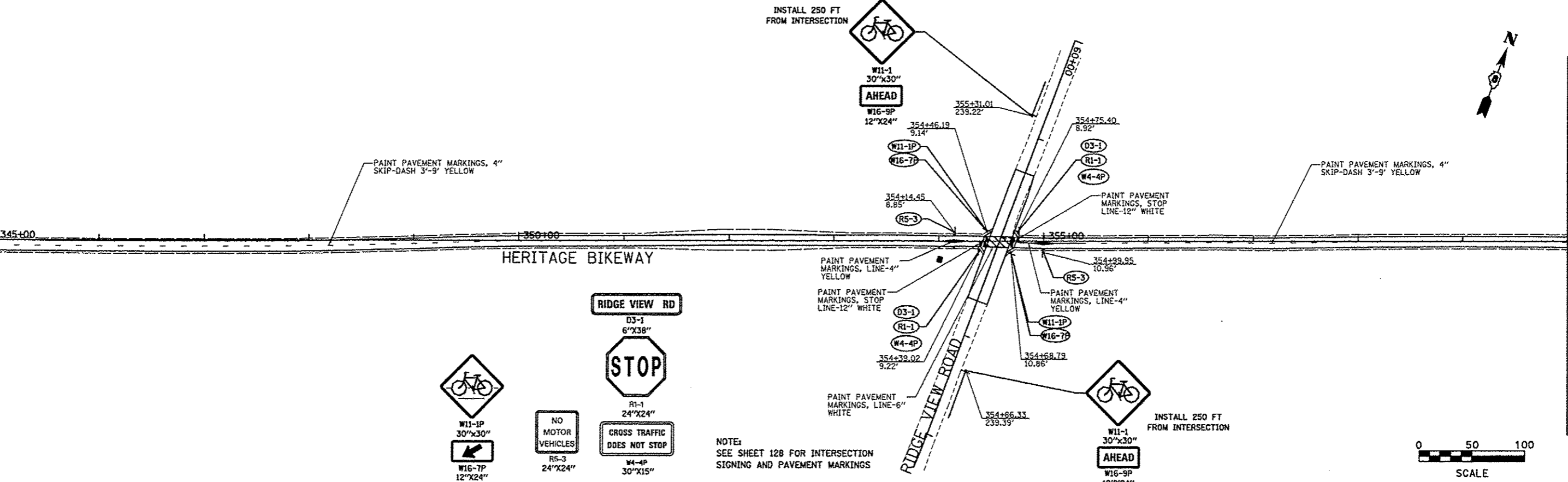
MATCH LINE STA. 330+00

MATCH LINE STA. 345+00



MATCH LINE STA. 345+00

MATCH LINE STA. 360+00



NOTE:
SEE SHEET 128 FOR INTERSECTION
SIGNING AND PAVEMENT MARKINGS

FILE NAME =
pmark_09.dgn

USER NAME = jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
PLOT DATE = 12/18/2012

REVIS -
REVIS -
REVIS -
REVIS -
DATE - 11/30/12

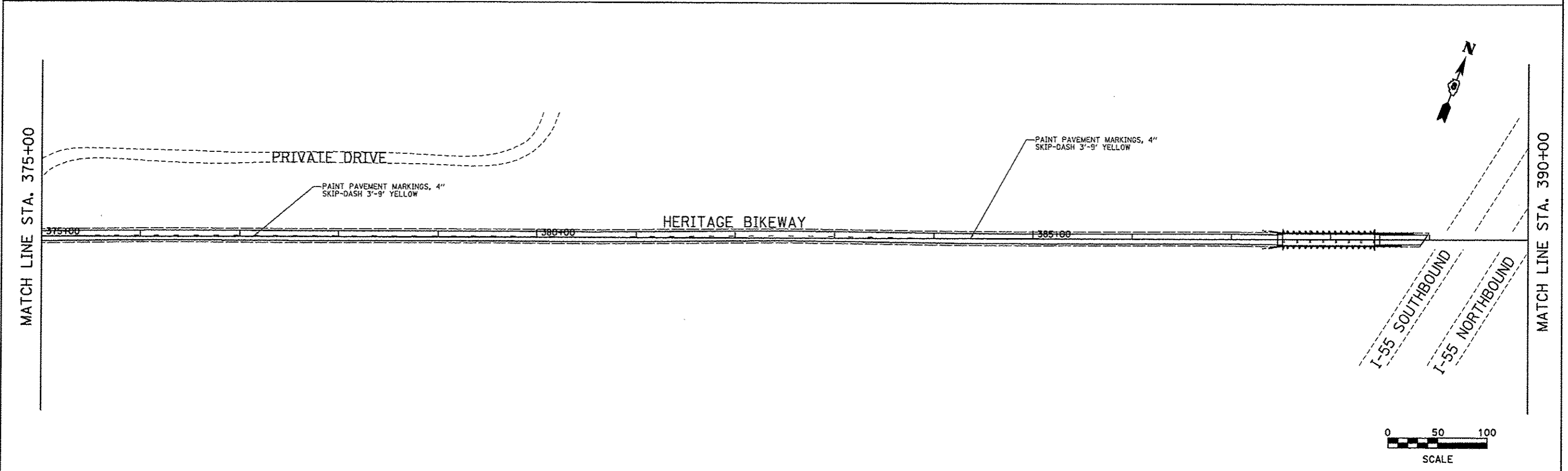
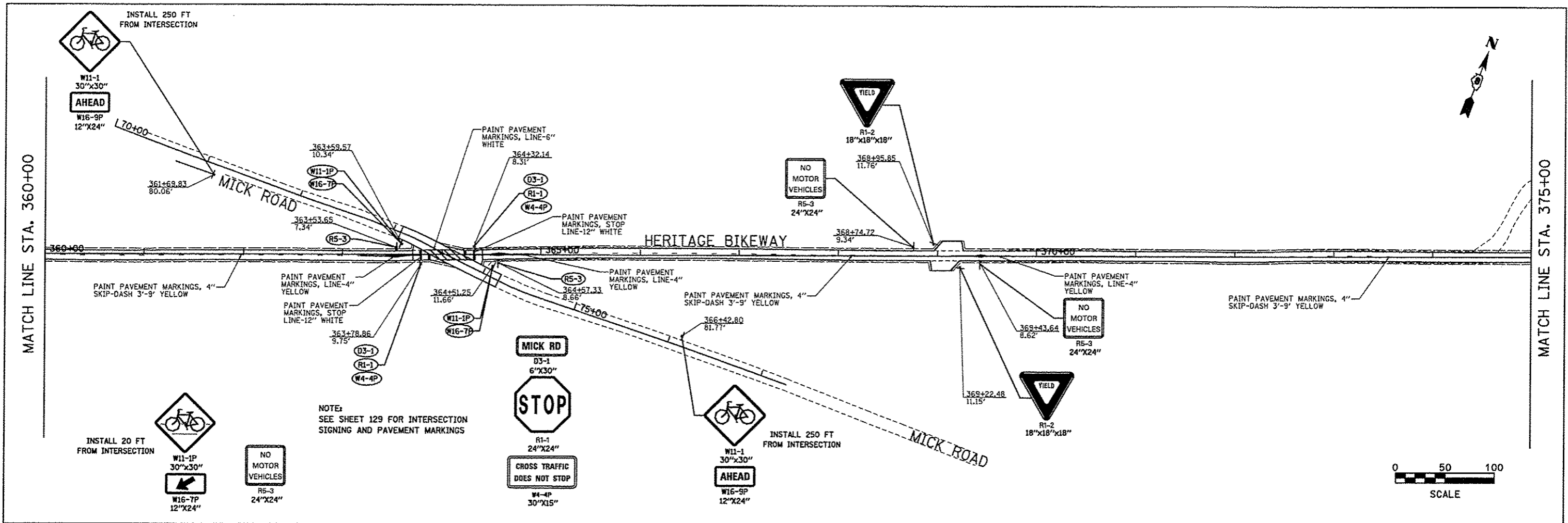
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

SIGNING DETAILS AND PAVEMENT MARKINGS

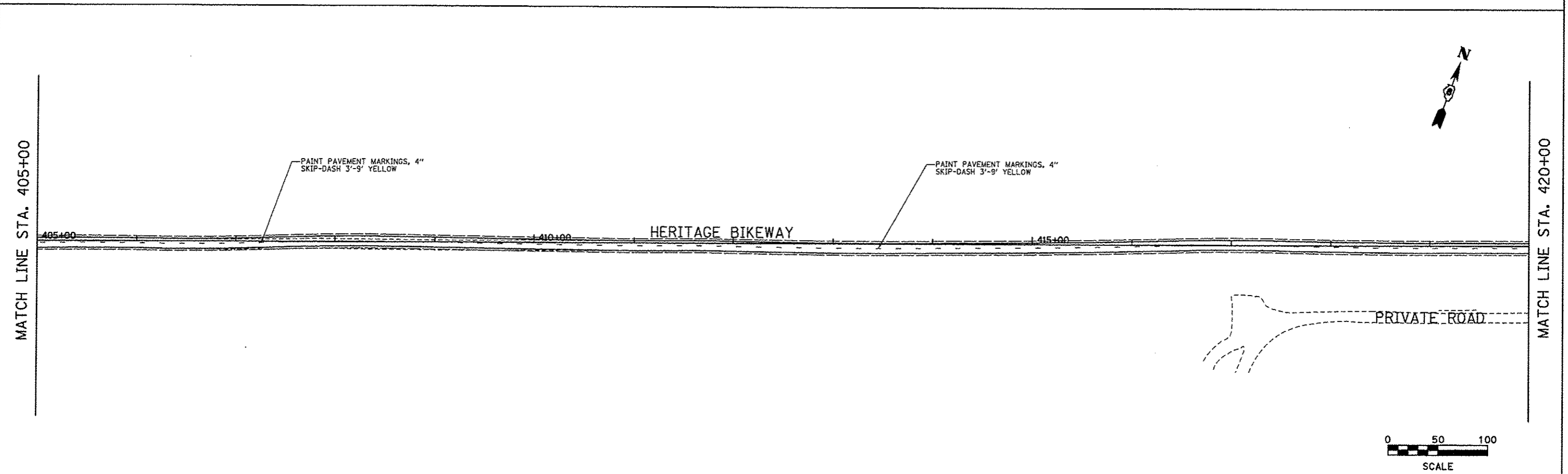
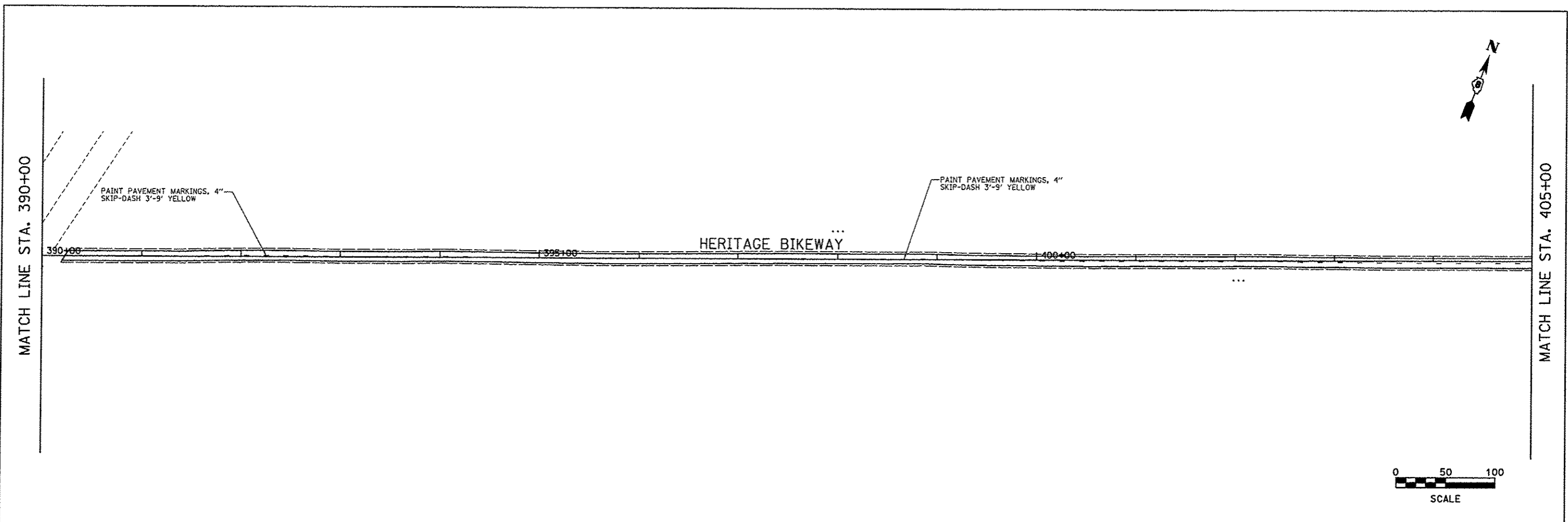
SCALE: 1" = 50' SHEET NO. 9 OF 22 SHEETS STA. 330+00.00 TO STA. 360+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	119
CONTRACT NO. 97433				

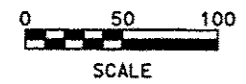
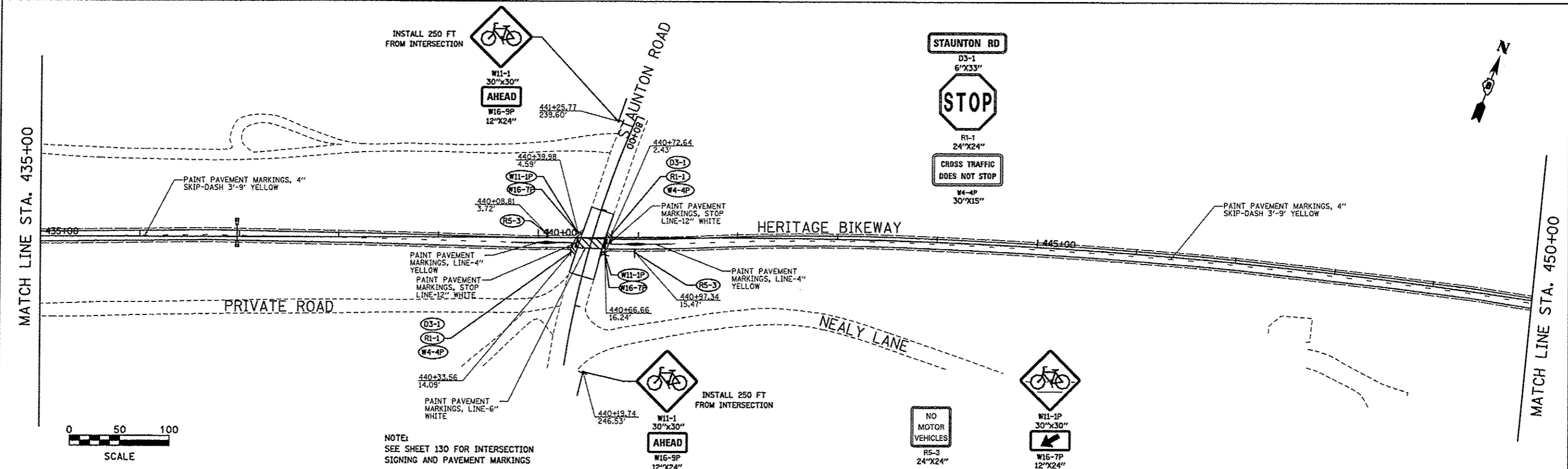
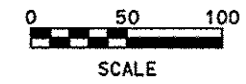
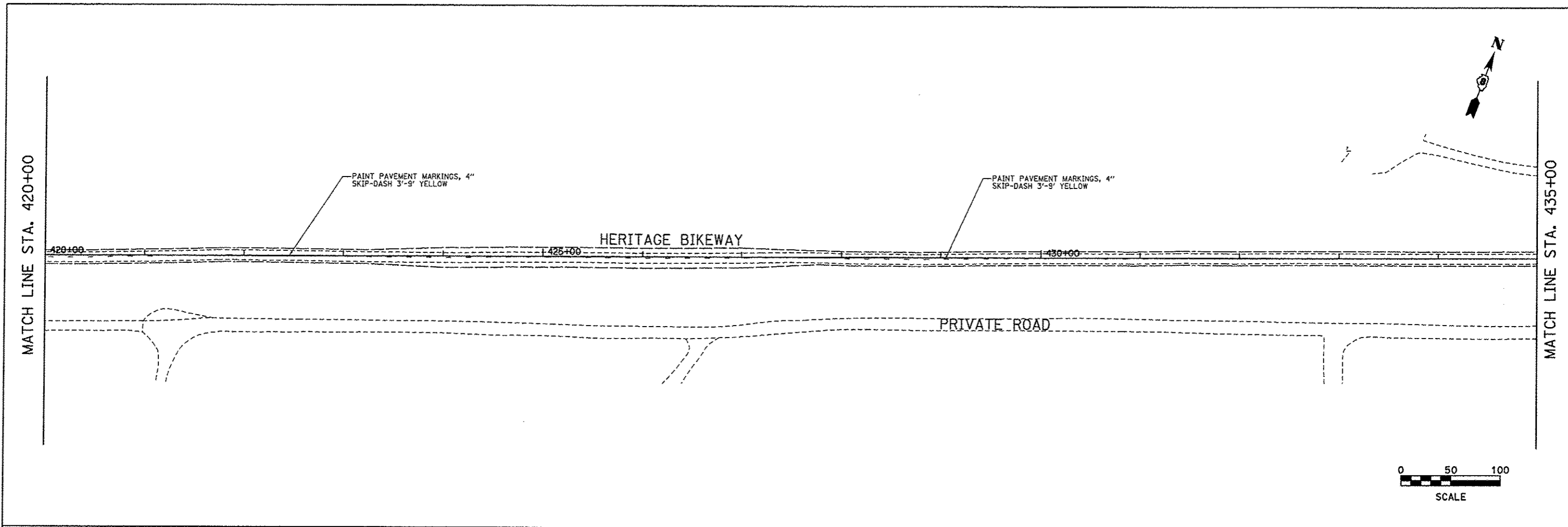
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



FILE NAME = pmark_10.dgn	USER NAME = jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 10 OF 22 SHEETS	STA. 360+00.00 TO STA. 390+00.00	06-00016-00-BT	MADISON	310	120	
		CHECKED - WJB	REVISED -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

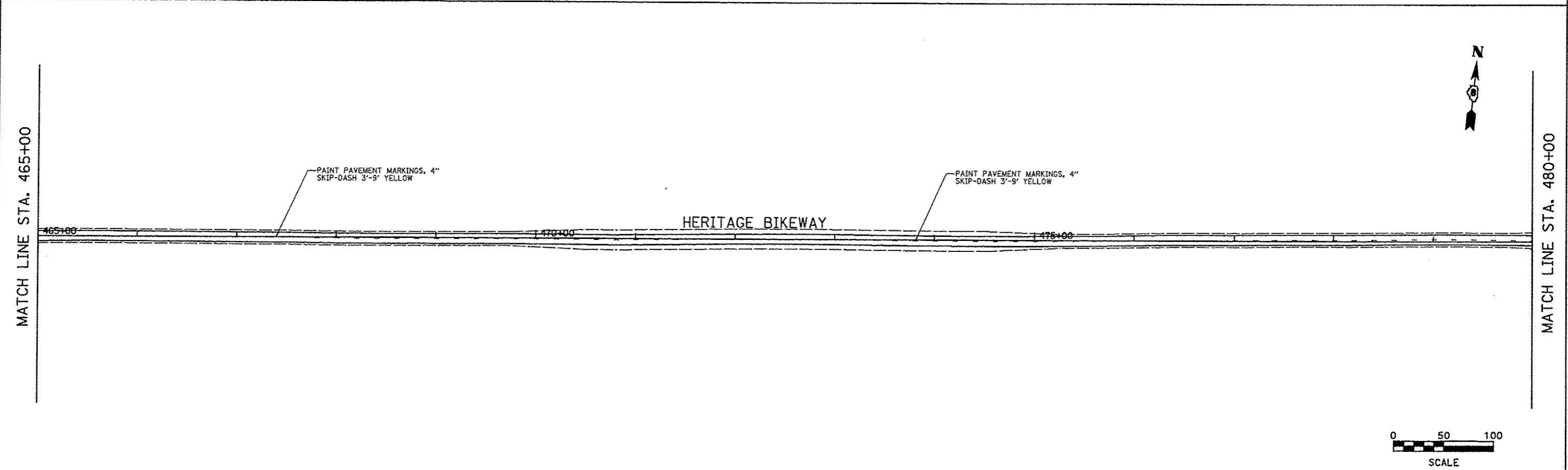
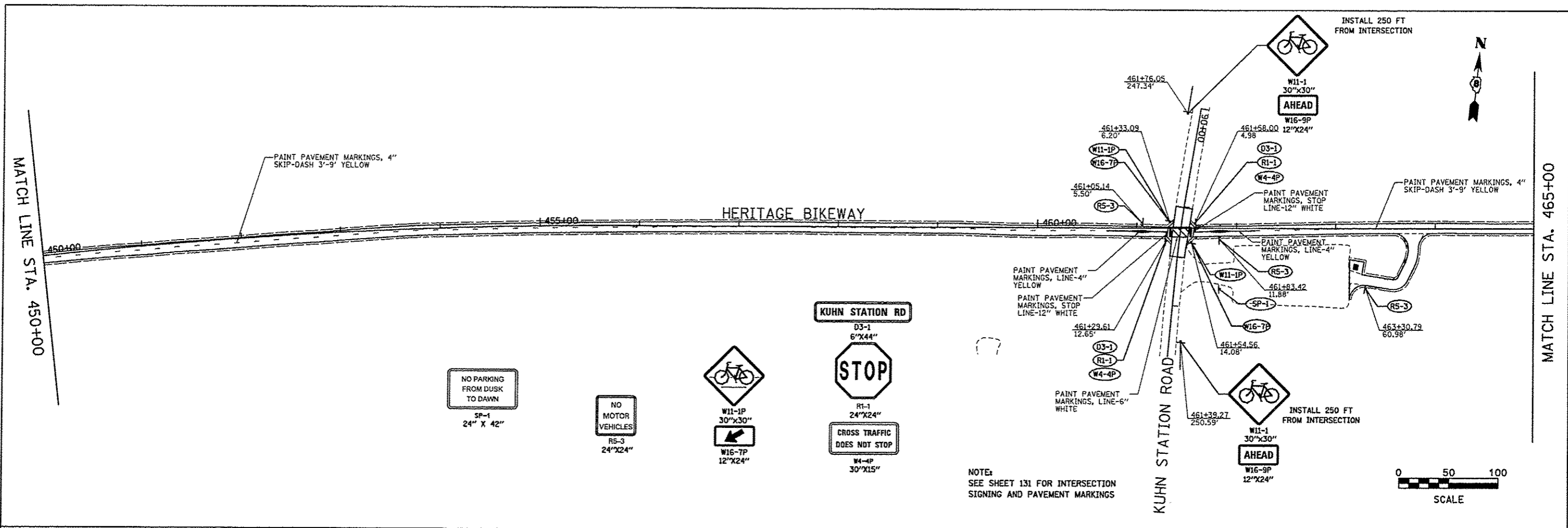


FILE NAME = pmerk_11.dgn	USER NAME = Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - JOH	REVISED -		SCALE: 1" = 50'	SHEET NO. 11 OF 22 SHEETS	STA. 390+00.00 TO STA. 420+00.00	06-00016-00-BT	MADISON	310	121
	PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED -					CONTRACT NO. 97433			
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

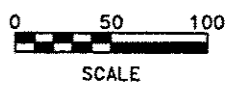
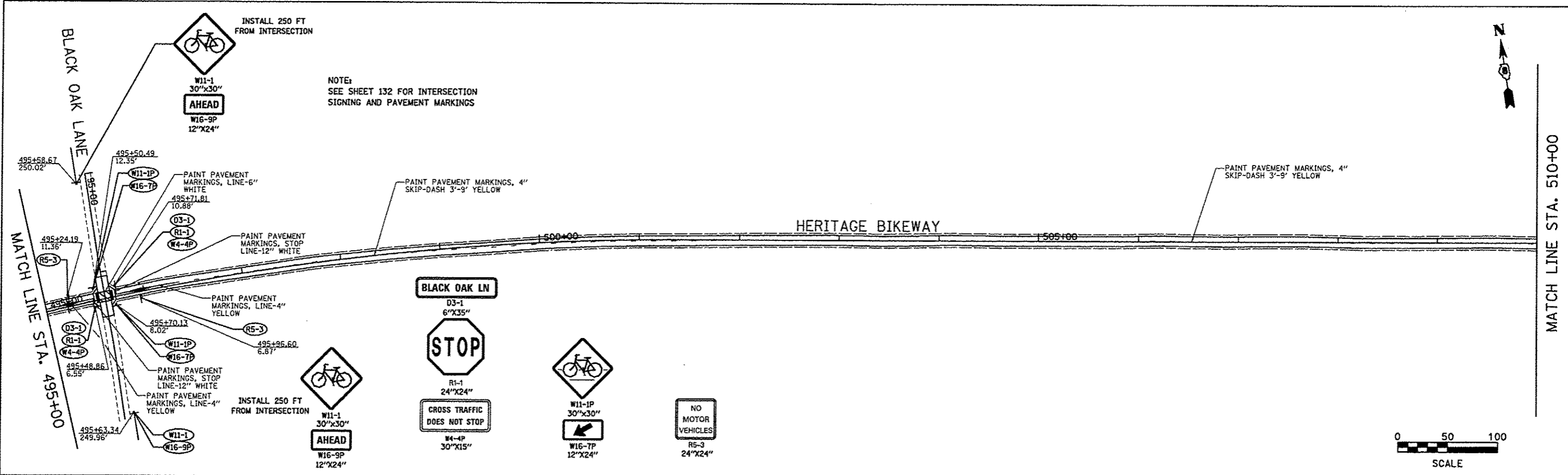
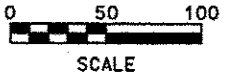
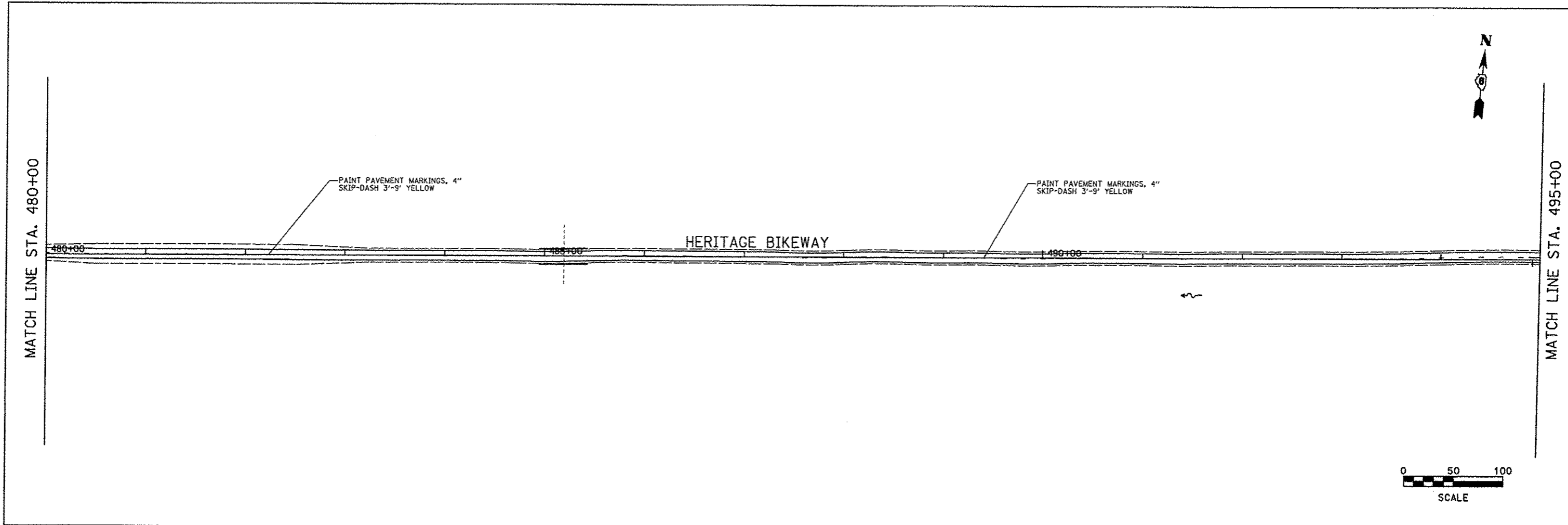


NOTE:
SEE SHEET 130 FOR INTERSECTION
SIGNING AND PAVEMENT MARKINGS

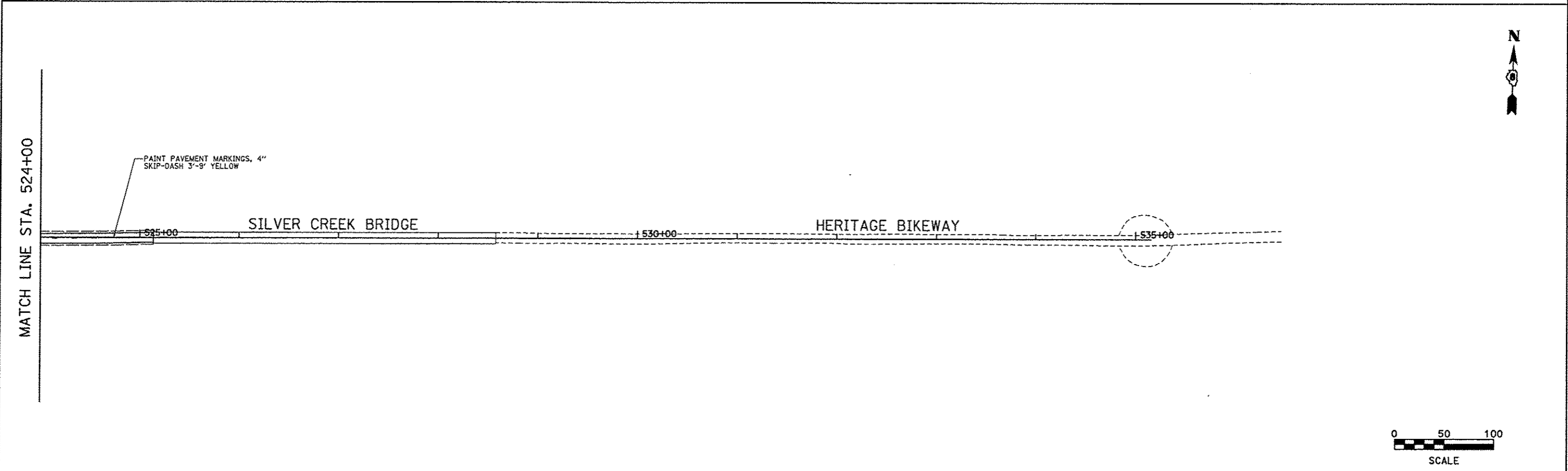
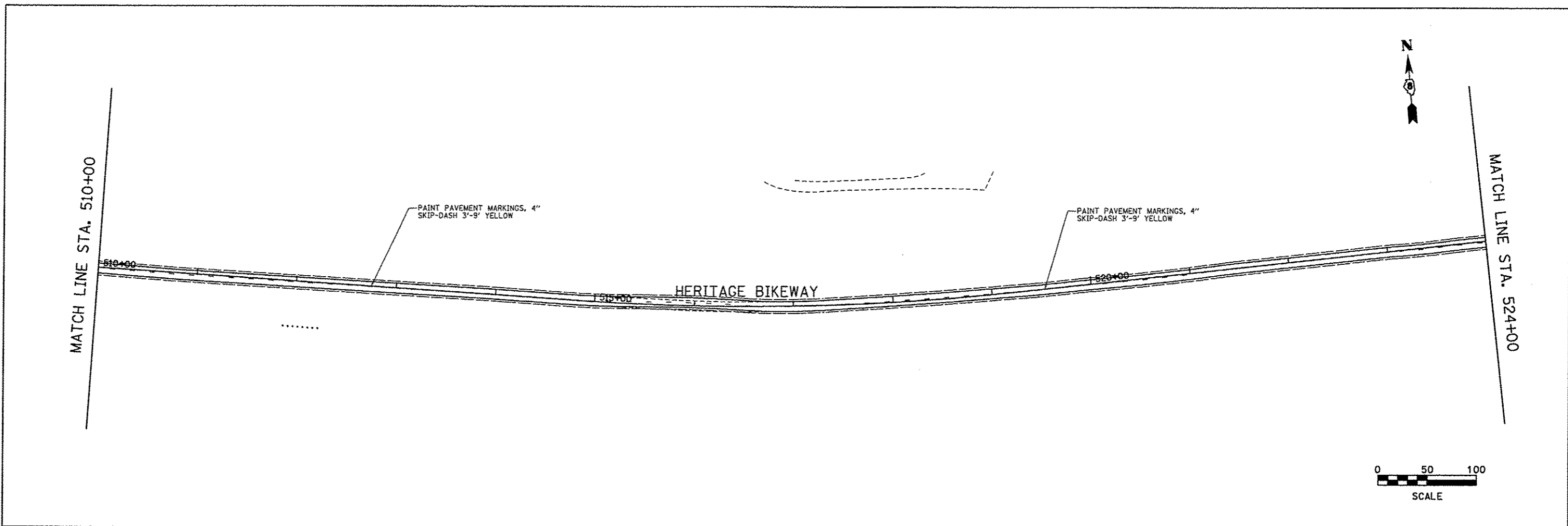
FILE NAME * pmark_12.dgn	USER NAME * jeramy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE * SCALE*	DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 12 OF 22 SHEETS	STA. 420+00.00 TO STA. 450+00.00	06-00016-00-BT	MADISON	310	122	
	PLOT DATE * 12/18/2012	CHECKED - WJB	REVISED -									CONTRACT NO. 97433
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



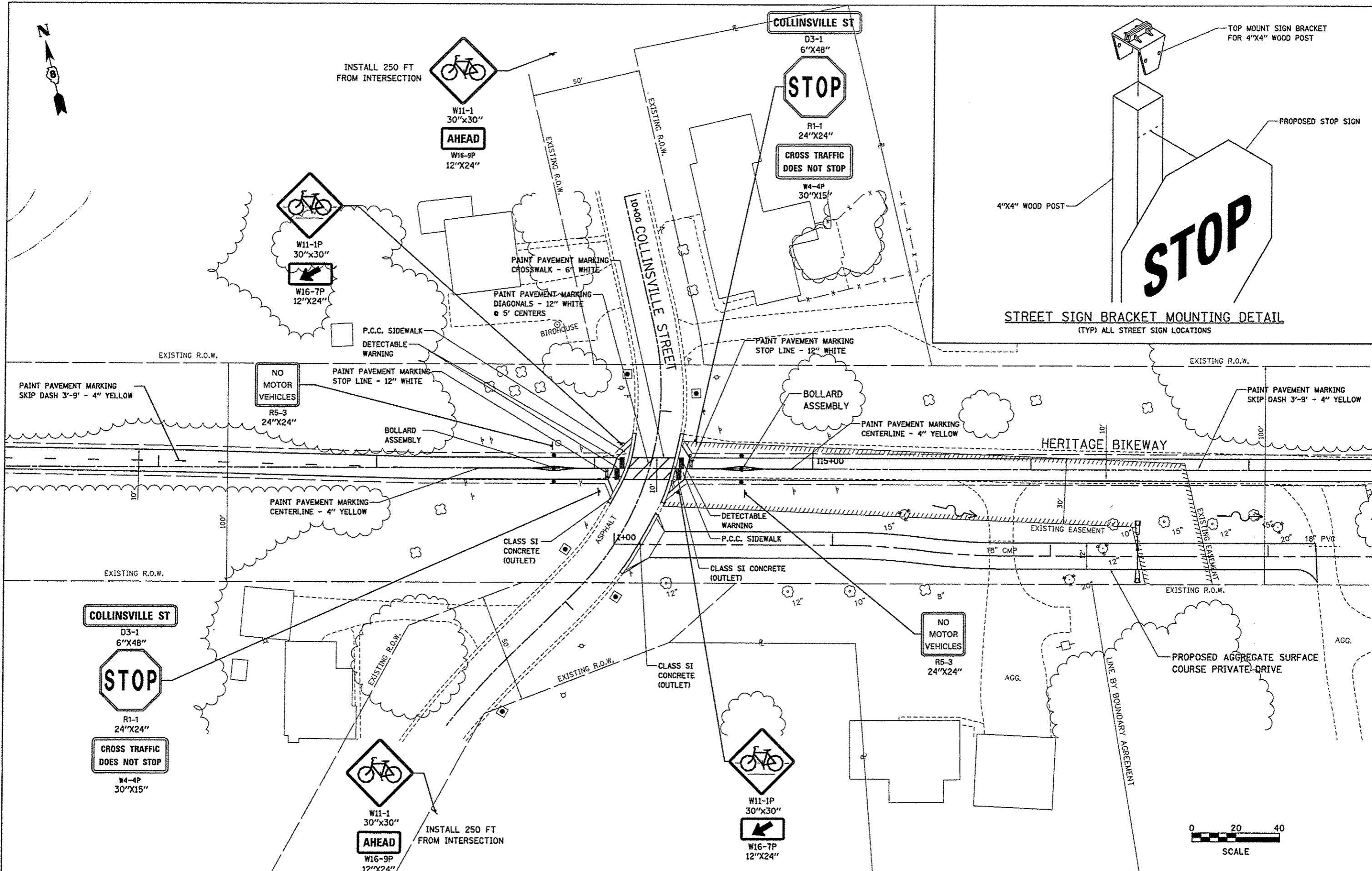
FILE NAME = pmark_13.dgn	USER NAME = jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 13 OF 22 SHEETS	STA. 450+00.00 TO STA. 465+00.00	06-00016-00-BT	MADISON	310	123		
		CHECKED - WJB	REVISED -										CONTRACT NO. 97433
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			



FILE NAME * pmark_14.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE#	DRAWN - JDH	REVISED -				06-00016-00-BT	MADISON	310	124	
PLOT DATE * 12/18/2012	CHECKED - WJB	DATE - 11/30/12	REVISED -	SCALE: 1" = 50'		SHEET NO. 14 OF 22 SHEETS	STA. 480+00.00 TO STA. 510+00.00	CONTRACT NO. 97433			
							FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

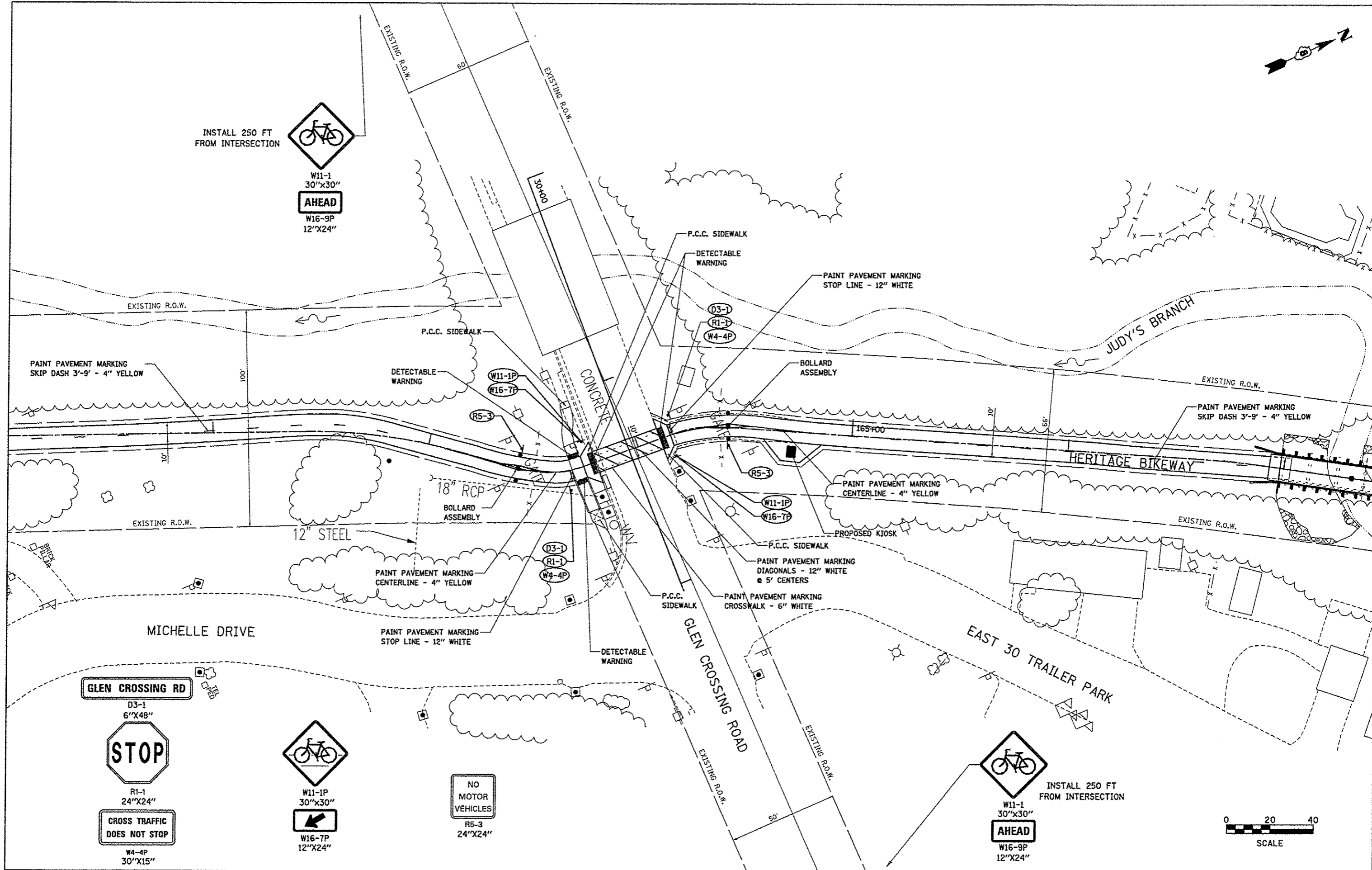


FILE NAME * pmark_15.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SINGING DETAILS AND PAVEMENT MARKINGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE#	DRAWN - JDH	REVISED -				06-00016-00-BT	MADISON	310	125	
	PLOT DATE * 12/18/2012	CHECKED - WJB	REVISED -				CONTRACT NO. 97433				
	DATE - 11/30/12	REVISED -	SCALE: 1" = 50'				SHEET NO. 15 OF 22 SHEETS	STA. 510+00.00 TO STA. 535+15.46	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



STREET SIGN BRACKET MOUNTING DETAIL
(TYP) ALL STREET SIGN LOCATIONS

FILE NAME * road detail 1.dgn	USER NAME * jeromy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE*	DRAWN - JDH	REVISED -			06-00016-00-BT	MADISON	310	126	
	PLOT DATE * 12/10/2012	CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
	DATE - 11/30/12	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
					SCALE: 1" = 20'	SHEET NO. 16 OF 22 SHEETS				



INSTALL 250 FT FROM INTERSECTION



W11-1
30"x30"
AHEAD
W16-9P
12"x24"

GLEN CROSSING RD

D3-1
6"x48"



R1-1
24"x24"

CROSS TRAFFIC
DOES NOT STOP

W4-4P
30"x15"



W11-1P
30"x30"
W16-7P
12"x24"

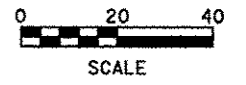
NO
MOTOR
VEHICLES

R5-3
24"x24"



W11-1
30"x30"
AHEAD
W16-9P
12"x24"

INSTALL 250 FT FROM INTERSECTION



FILE NAME *
road detail 3.dgn

USER NAME * jeremy
PLOT SCALE = #SCALE#
PLOT DATE = 12/18/2012

DESIGNED - SAS
DRAWN - JQH
CHECKED - WJB
DATE - 11/30/12

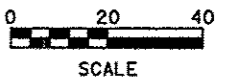
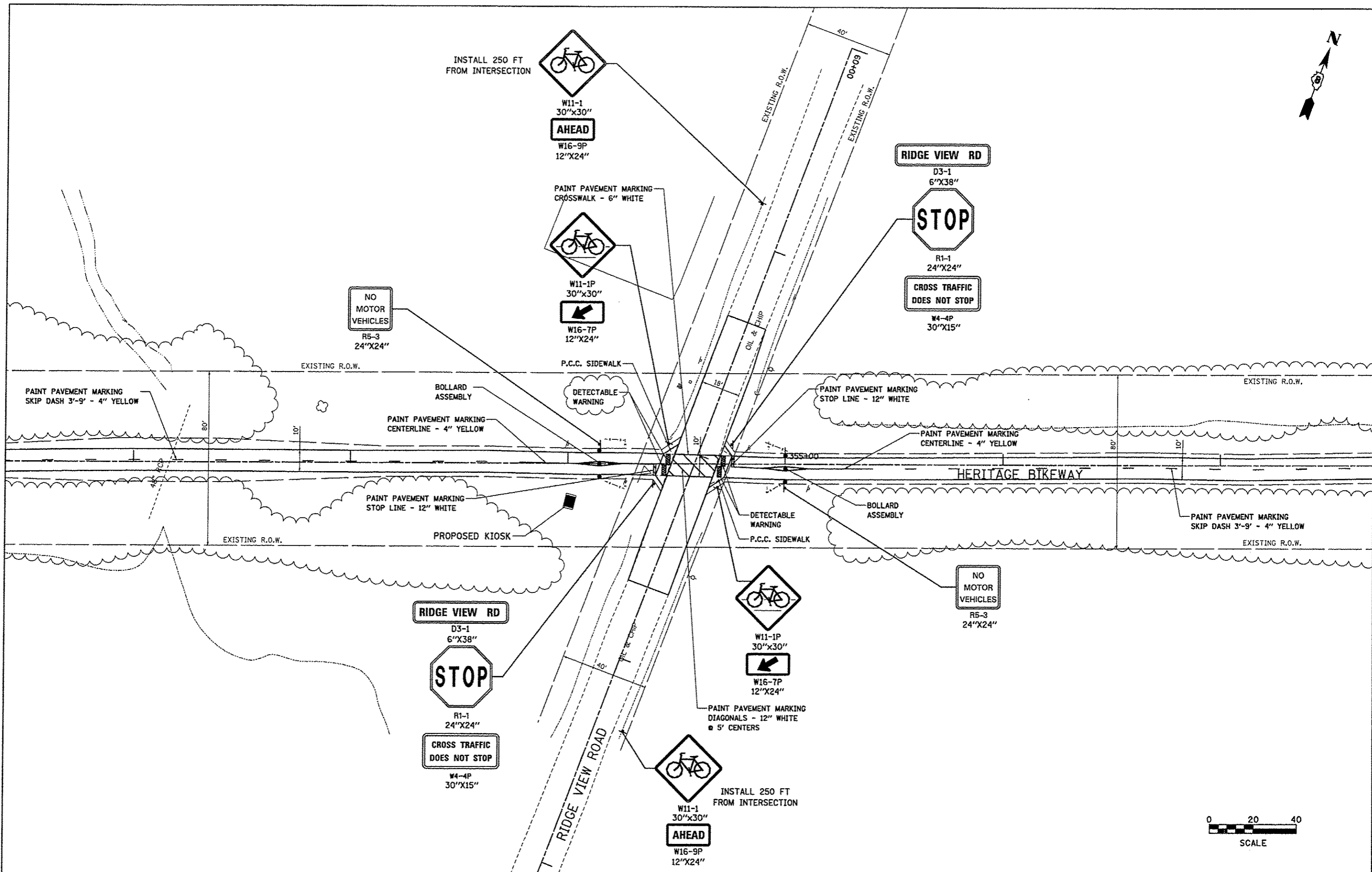
REVISED -
REVISED -
REVISED -
REVISED -

MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY

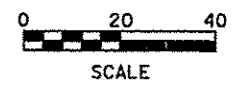
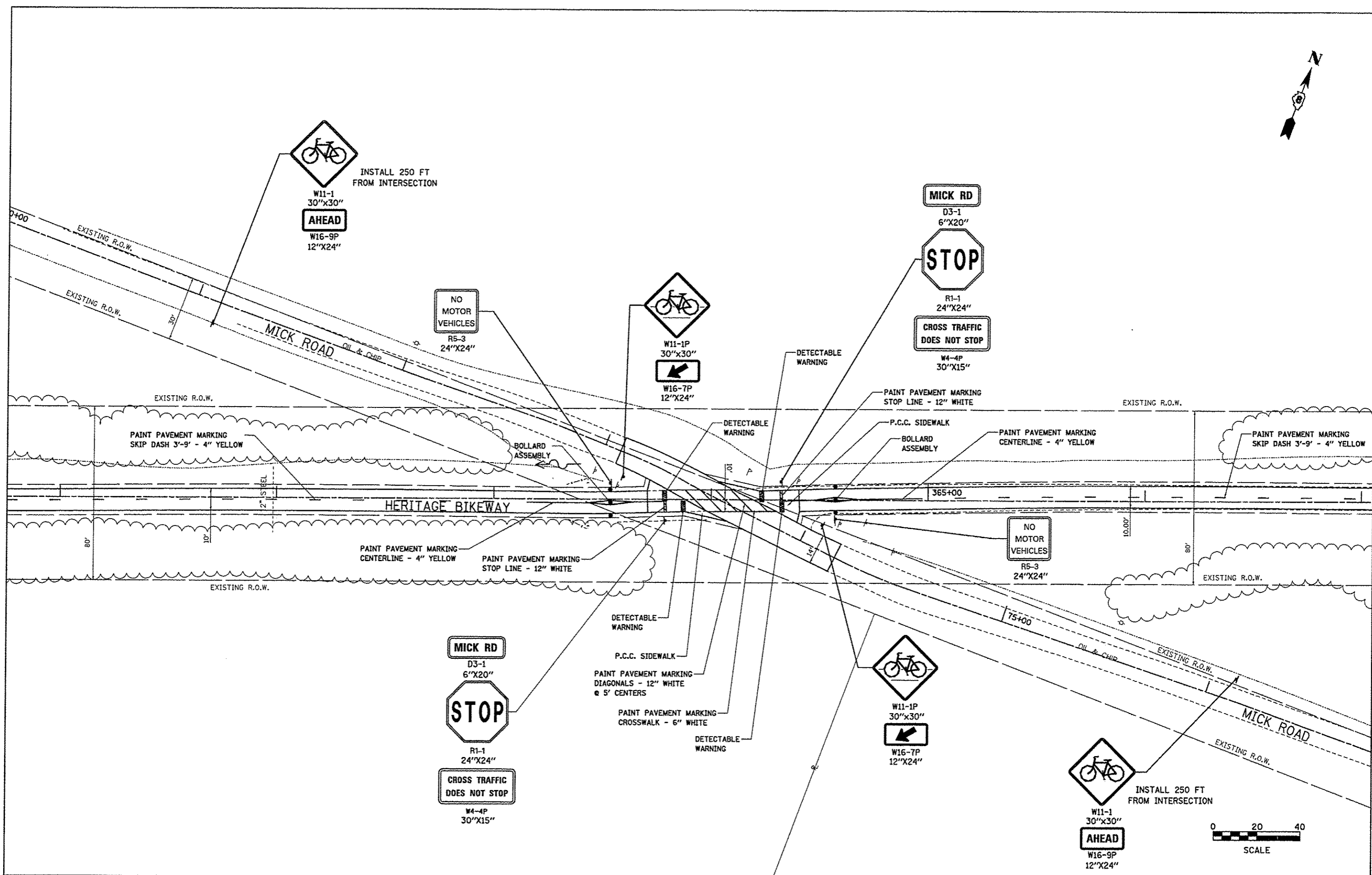
SIGNING DETAILS AND PAVEMENT MARKINGS

SCALE: 1" = 20' SHEET NO. 17 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	127
CONTRACT NO. 97433				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME * road detail 4.dgn	USER NAME * jeramy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIGNING DETAILS AND PAVEMENT MARKINGS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE*	DRAWN - JDH	REVISED -			06-00016-00-BT	MADISON	310	128	
	PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
	DATE - 11/30/12	REVISED -			SCALE: 1" = 20'	SHEET NO. 18 OF 22 SHEETS		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



FILE NAME *
road detail 5.dgn

USER NAME * jeremy
PLOT SCALE * #SCALE*
PLOT DATE * 12/18/2012

DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

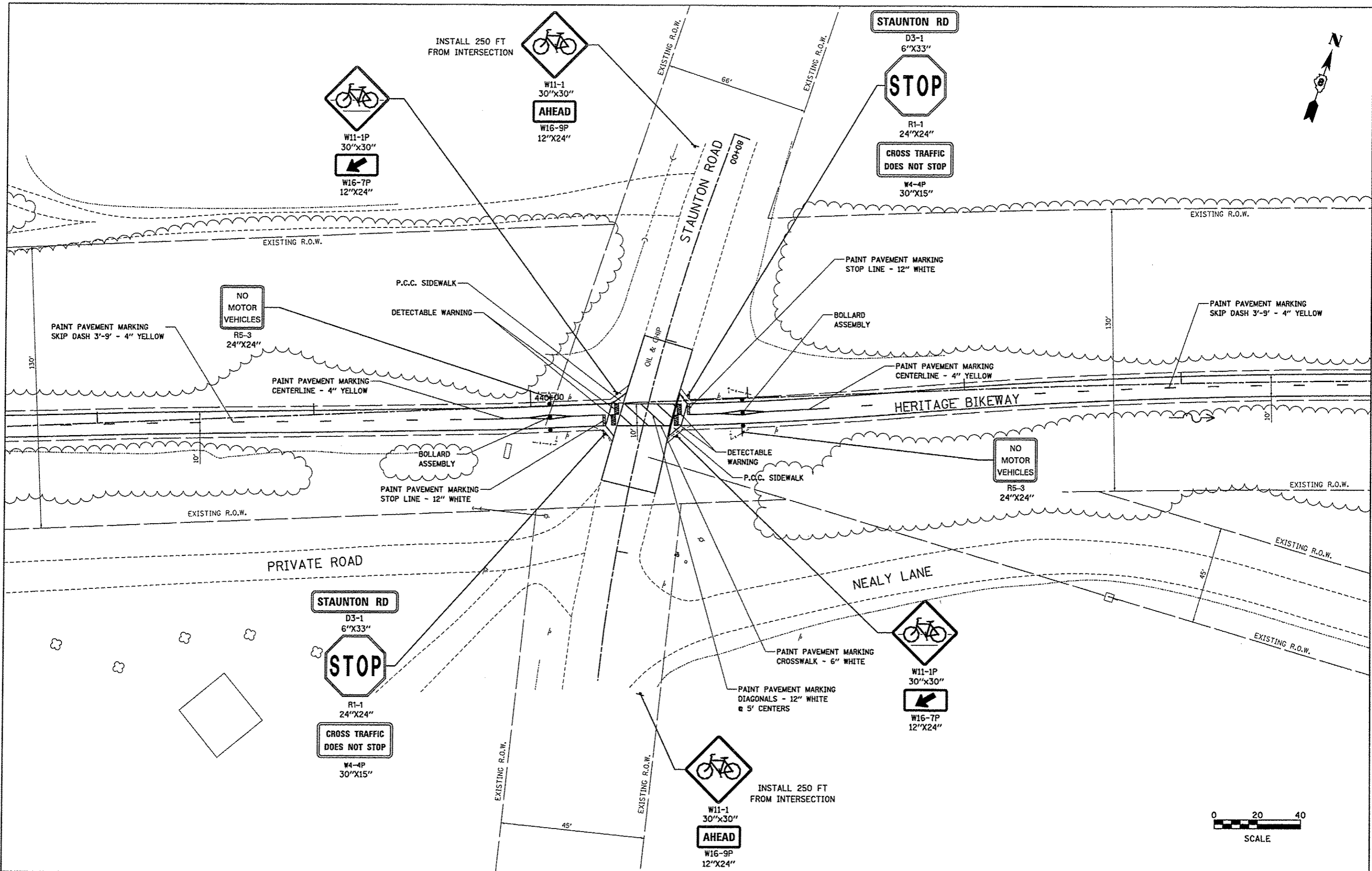
REVISED -
REVISED -
REVISED -
REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

SIGNING DETAILS AND PAVEMENT MARKINGS

SCALE: 1" = 20' SHEET NO. 19 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	129
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 97433	



FILE NAME *
road detail 6.dgn

USER NAME * jeremy
PLOT SCALE = *SCALE*
PLOT DATE = 12/18/2012

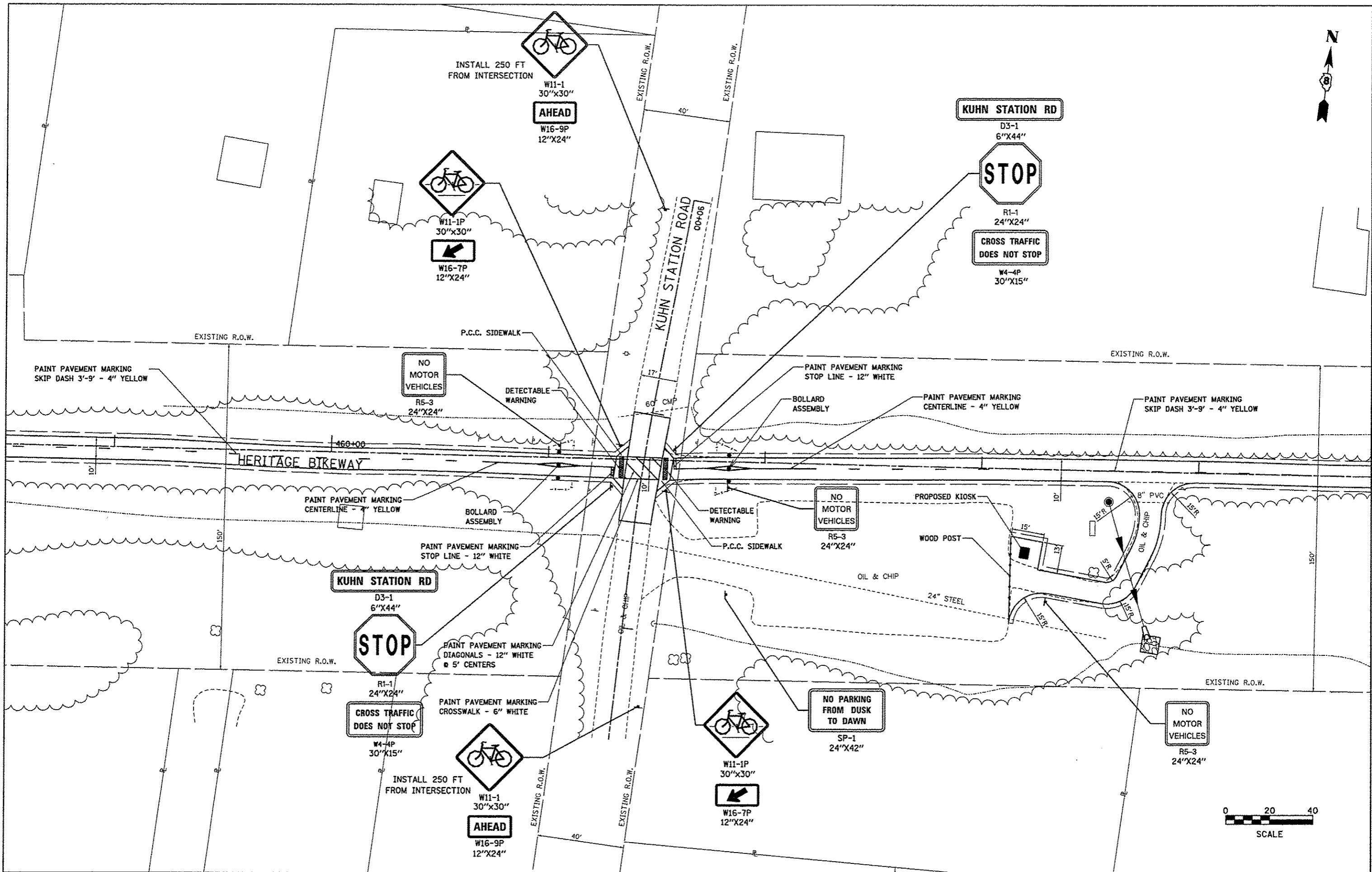
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

SIGNING DETAILS AND PAVEMENT MARKINGS
SCALE: 1" = 20' SHEET NO. 20 OF 22 SHEETS

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	130
CONTRACT NO. 97433				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME *
road detail 7.dgn

USER NAME * Jeremy
PLOT SCALE = #SCALE#
PLOT DATE = 12/18/2012

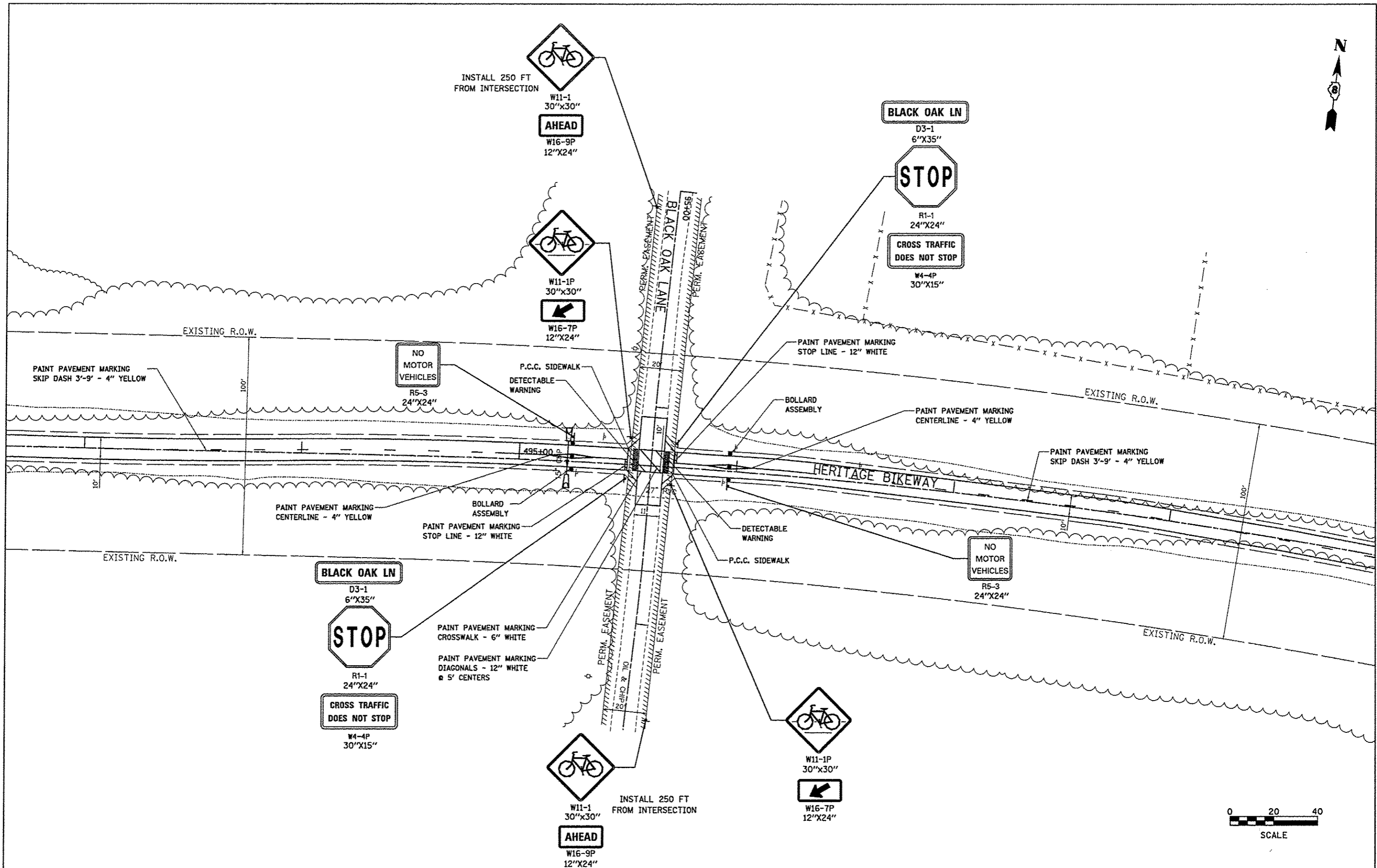
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

SIGNING DETAILS AND PAVEMENT MARKINGS
SCALE: 1" = 20' SHEET NO. 21 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	131
CONTRACT NO. 97433				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME *
road detail 8.dgn

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
PLOT DATE * 12/18/2012

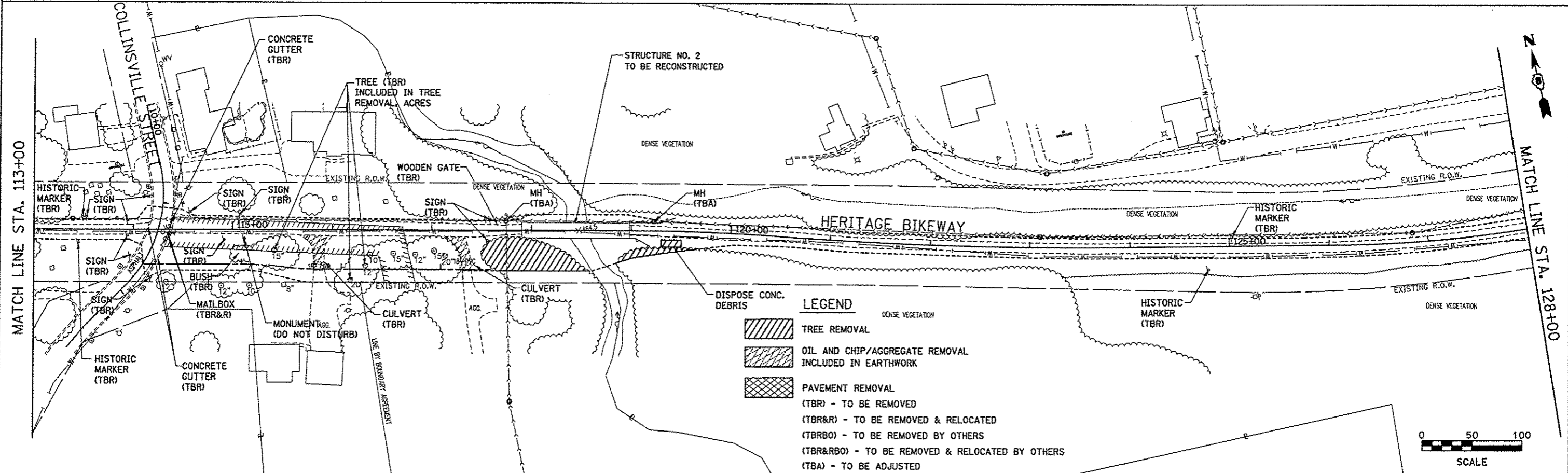
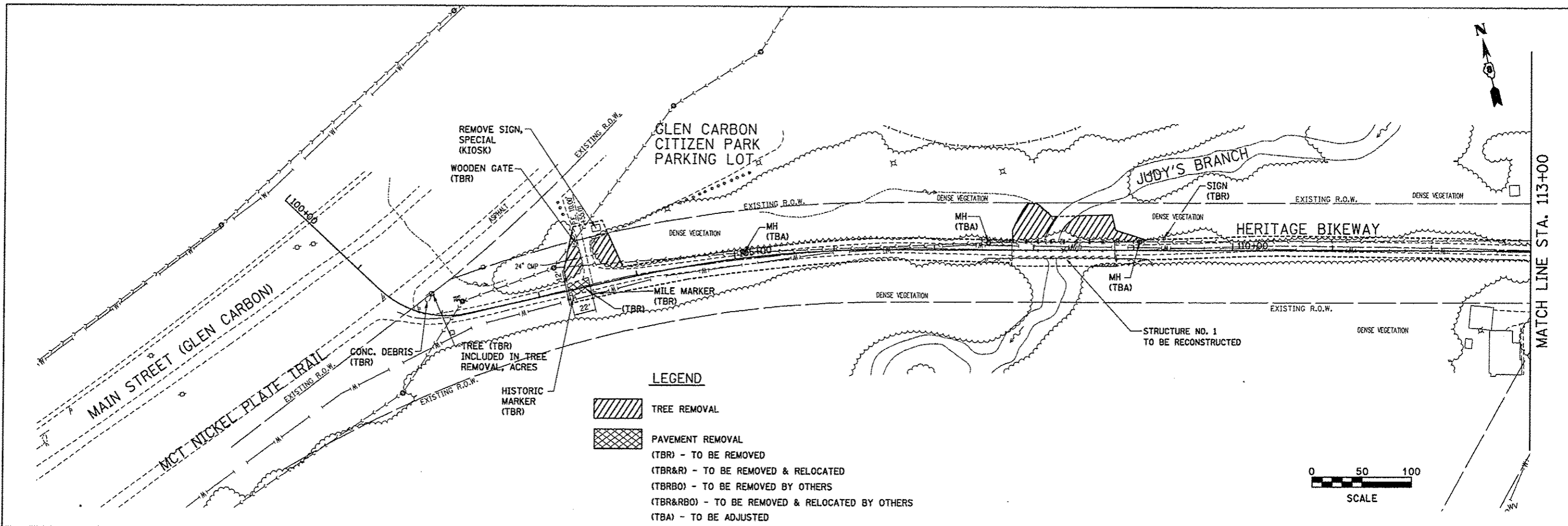
REVISOR -
REVISION -
REVISION -
REVISION -
DATE - 11/30/12

REVISOR -
REVISION -
REVISION -
REVISION -
DATE -

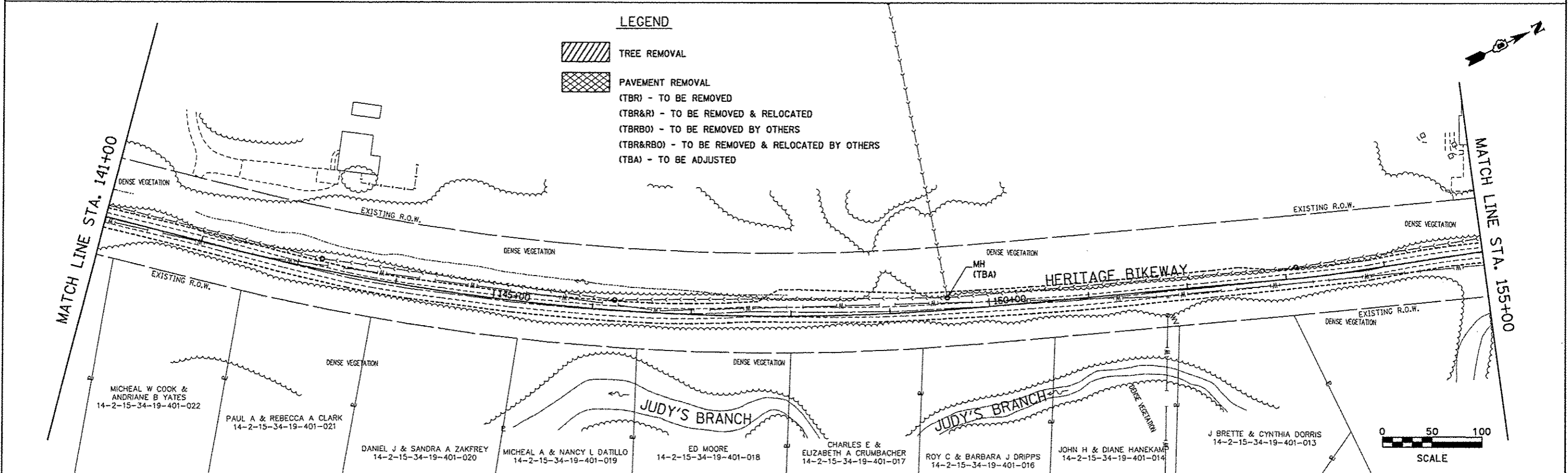
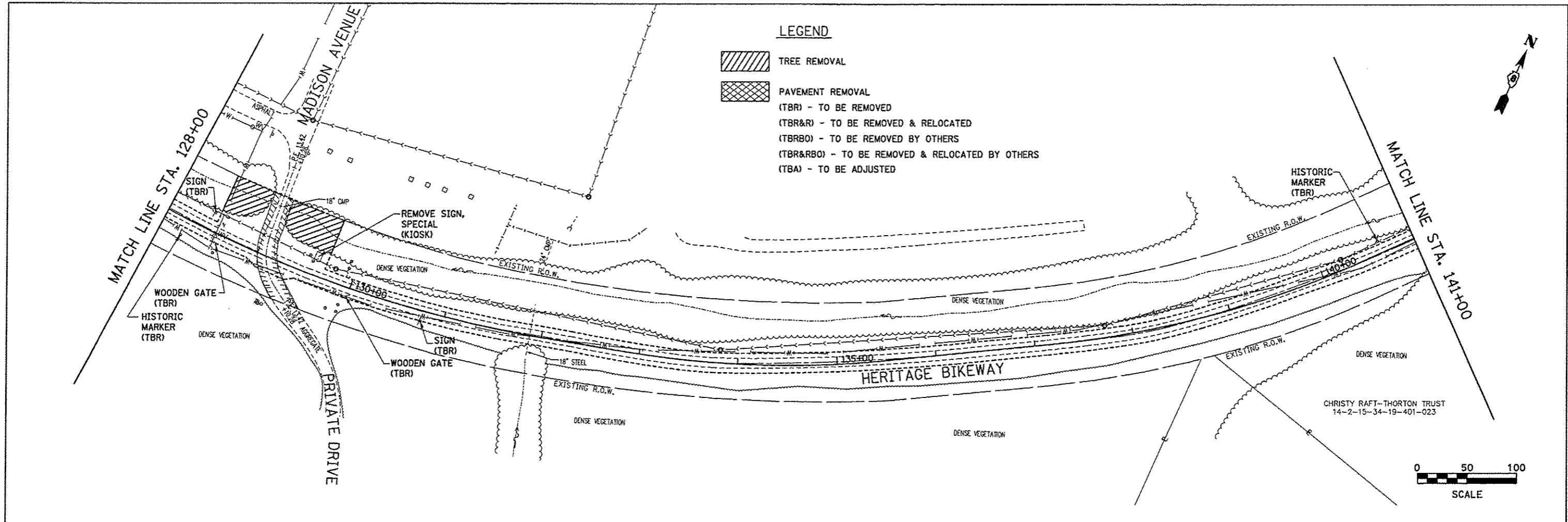
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

SIGNING DETAILS AND PAVEMENT MARKINGS
SCALE: 1" = 20' SHEET NO. 22 OF 22 SHEETS

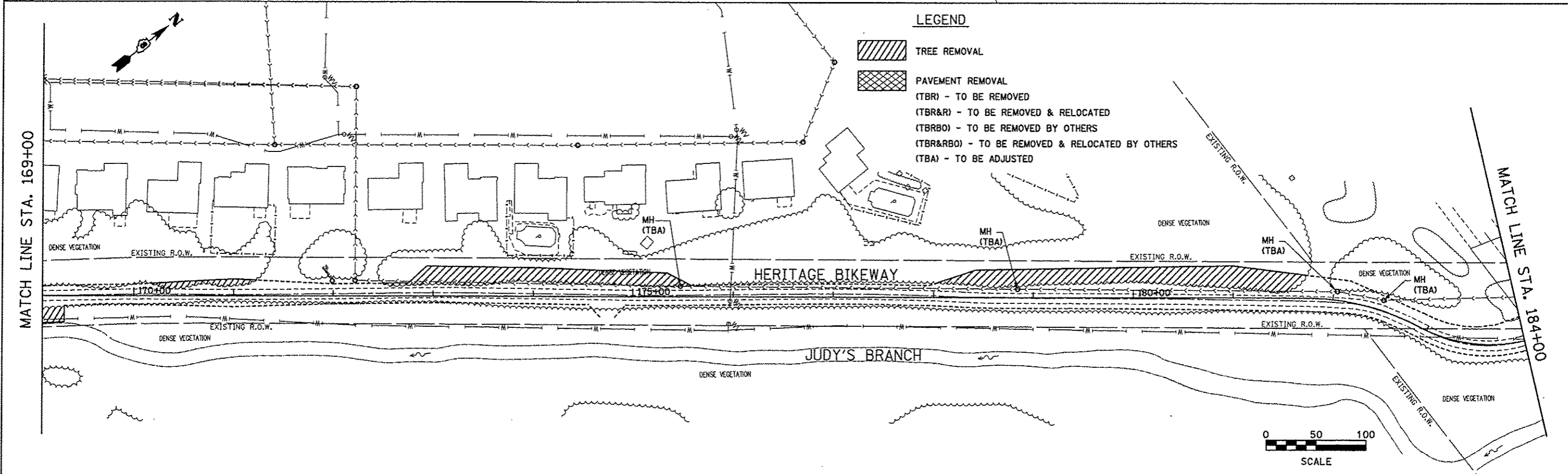
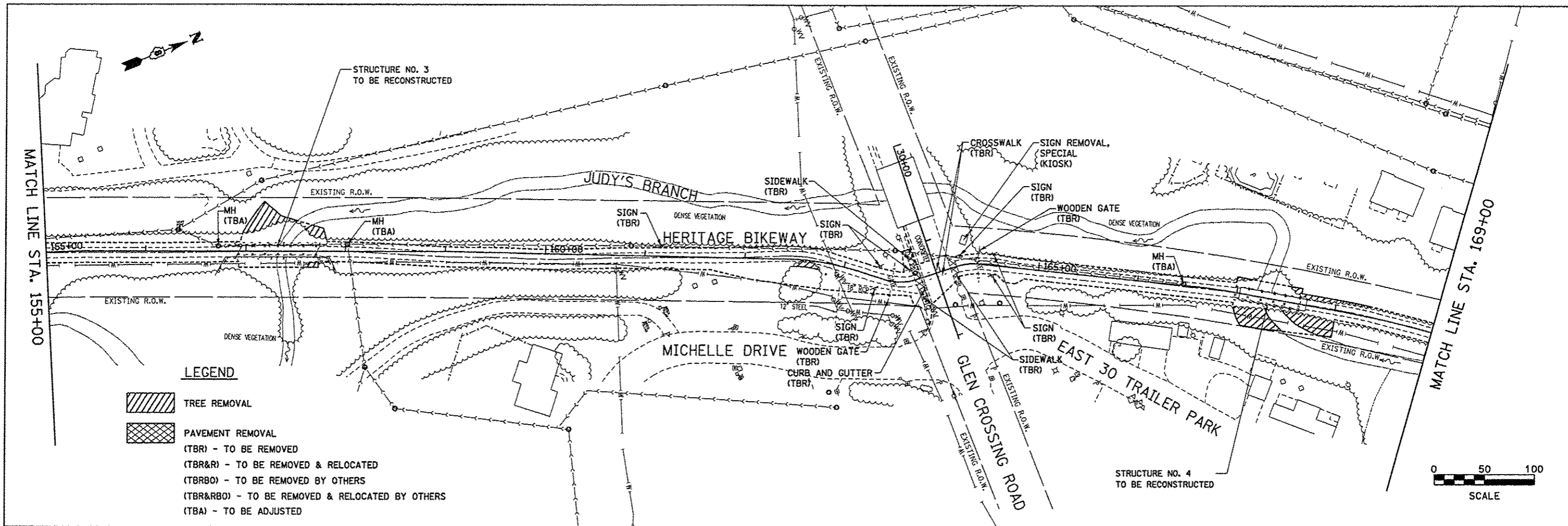
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	132
CONTRACT NO. 97433				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



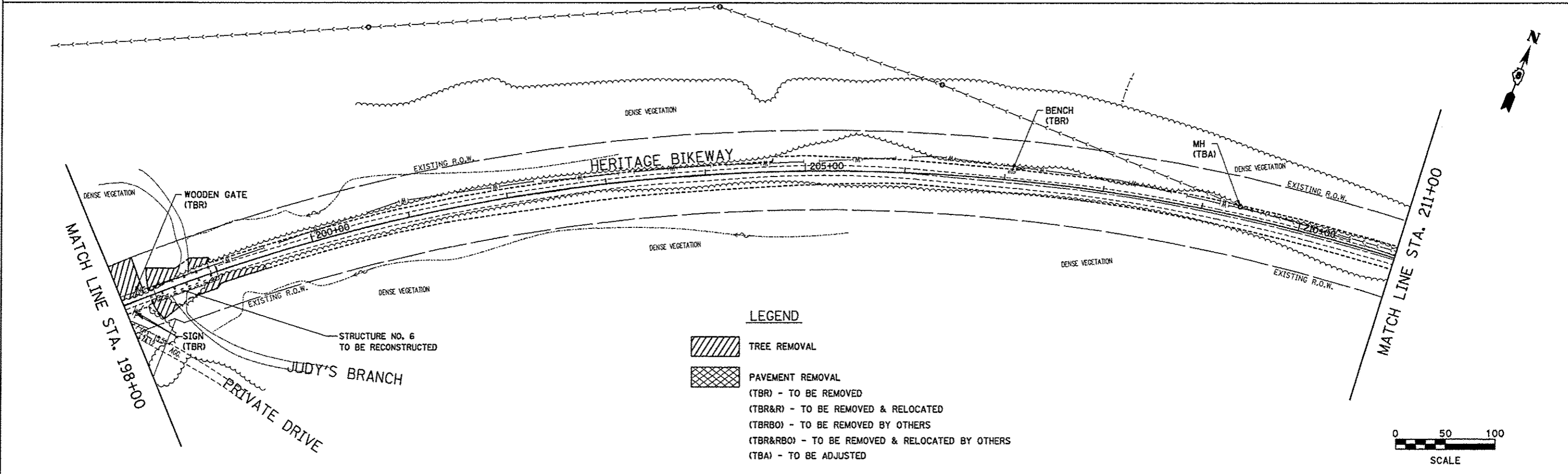
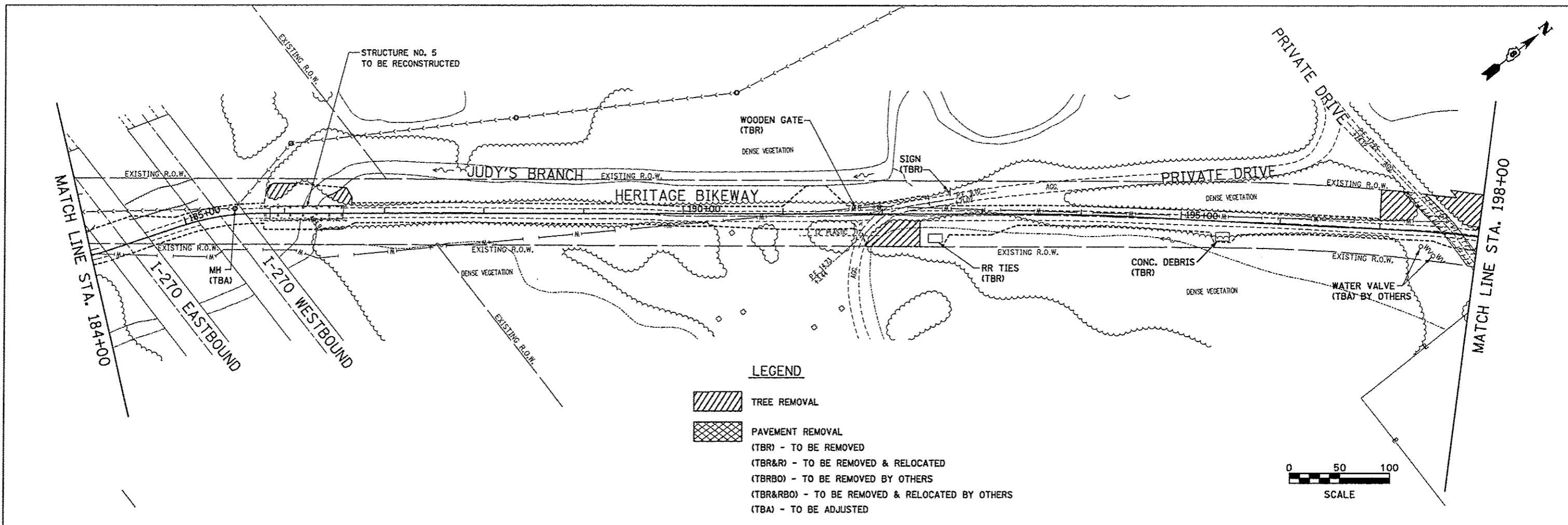
FILE NAME * rem_01.dgn	USER NAME * jeromy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	REMOVAL SHEETS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 1 OF 15 SHEETS	STA. 103+29.81 TO STA. 128+00.00	06-00016-00-BT	MADISON	310	133	
		CHECKED - WJB	REVISED -									CONTRACT NO. 97433
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS/FED. AID PROJECT			



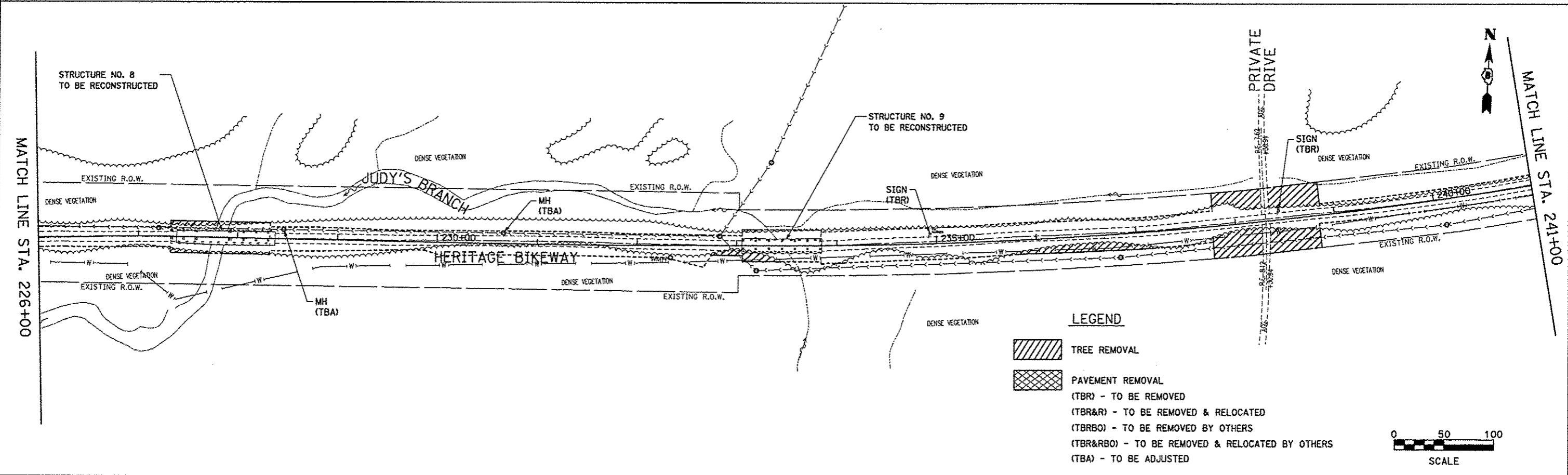
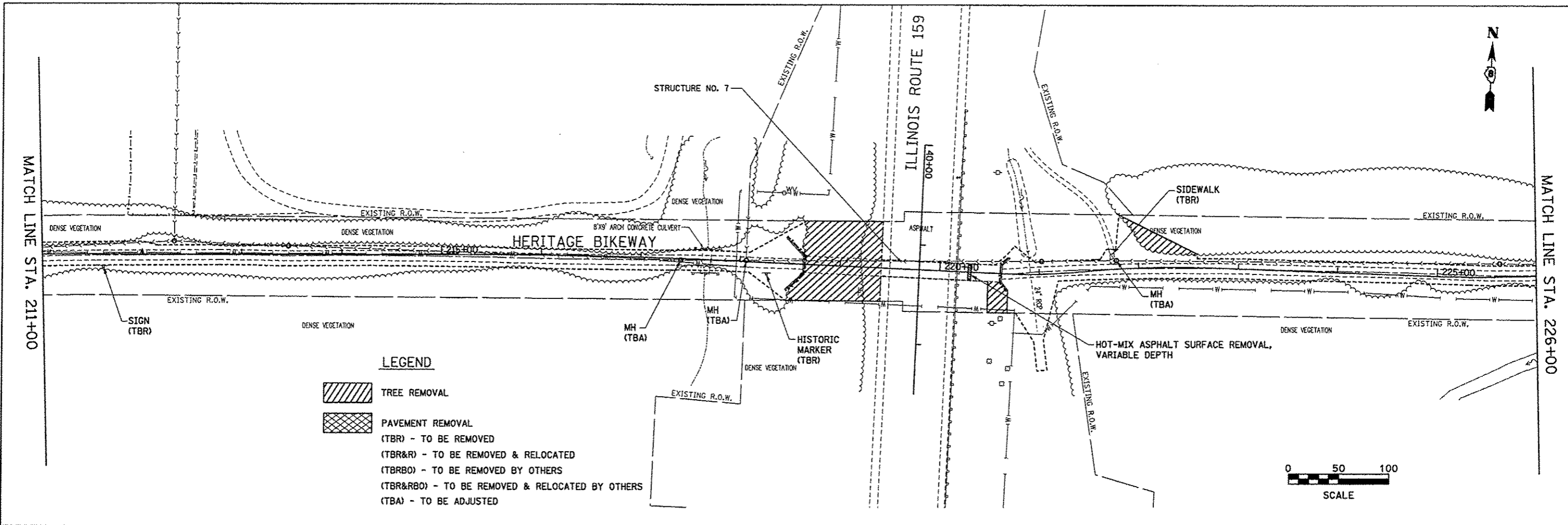
FILE NAME * rem_02.dgn	USER NAME * jeramy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	REMOVAL SHEETS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 15 SHEETS	STA. 128+00.00 TO STA. 155+00.00	06-00016-00-BT	MADISON	310	134	
		CHECKED - WJB	REVISED -									
		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 97433



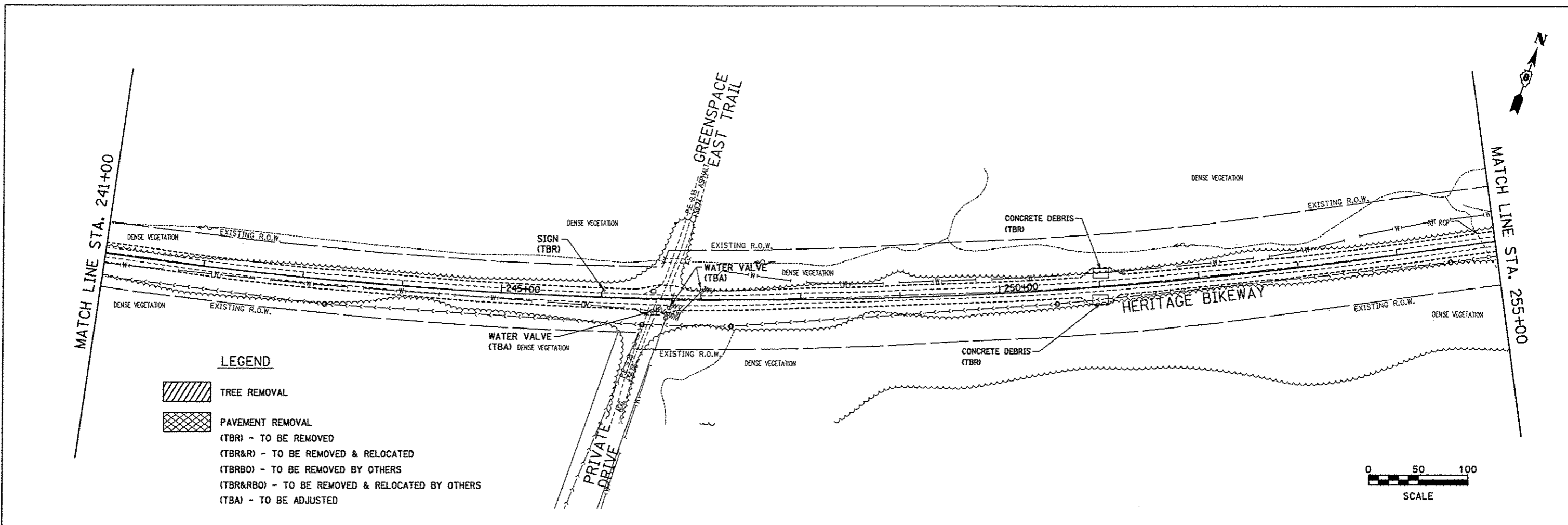
FILE NAME * rem_03.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISED - -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	REMOVAL SHEETS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - JDH	REVISED - -		SCALE: 1" = 50'	SHEET NO. 3 OF 15 SHEETS	STA. 155+00.00 TO STA. 184+00.00	06-00016-00-BT	MADISON	310	135	
	PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED - -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED - -					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





FILE NAME * rem_B4.dgn	USER NAME * jeramy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	REMOVAL SHEETS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - JDH	REVISED -		SCALE: 1" = 50'	SHEET NO. 4 OF 15 SHEETS	STA. 184+00.00 TO STA. 211+00.00	06-00016-00-BT	MADISON	310	136	
		CHECKED - WJB	REVISED -									
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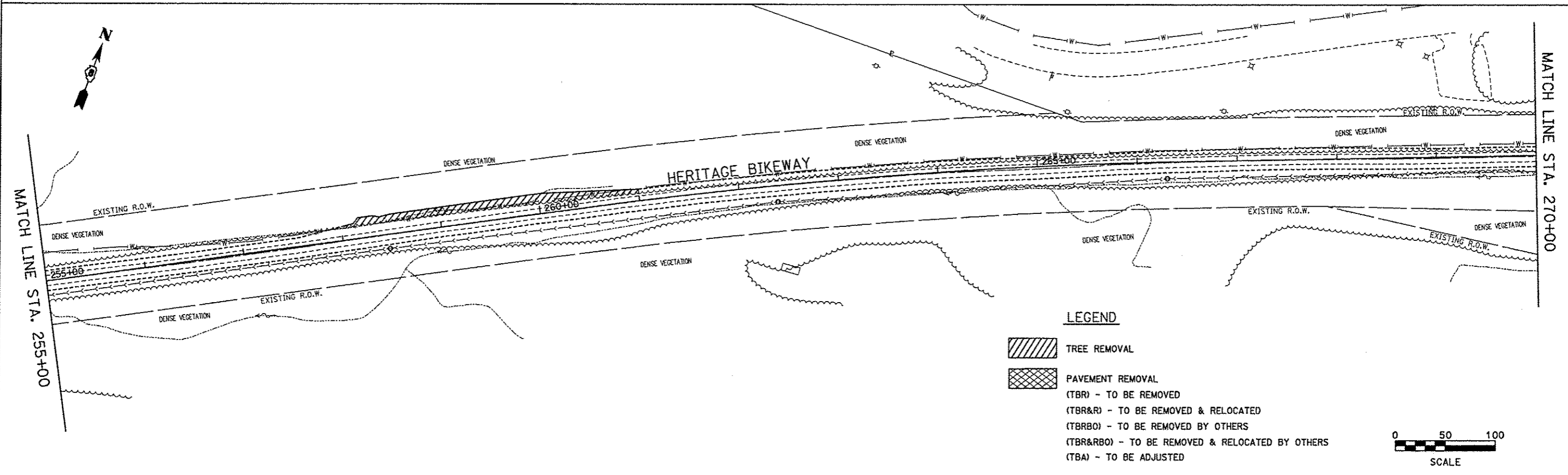


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		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





LEGEND

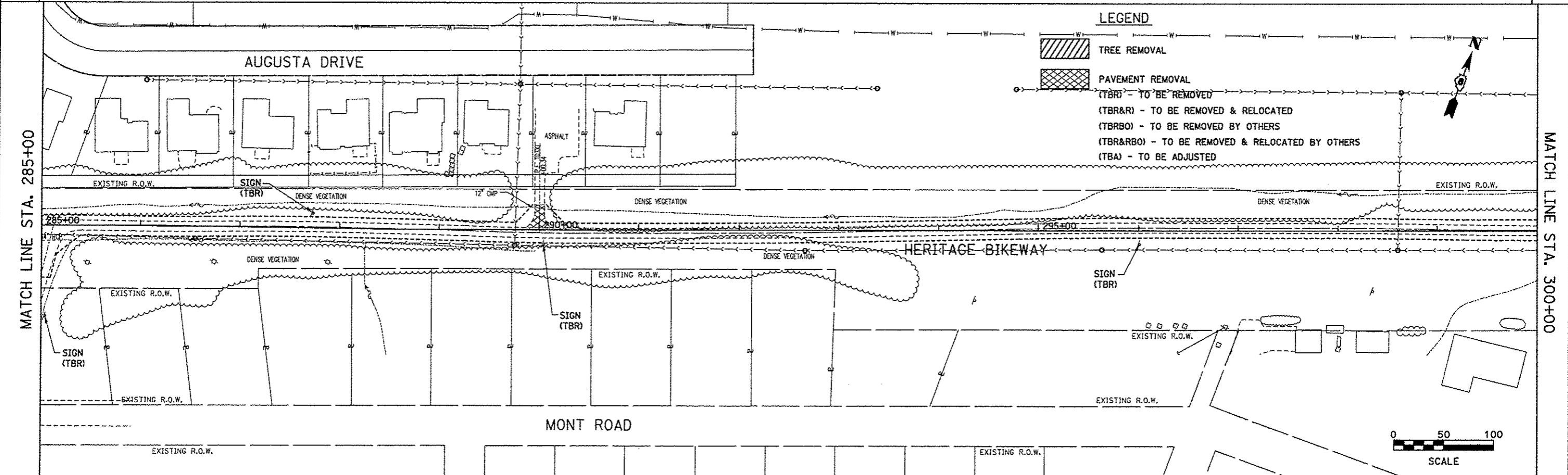
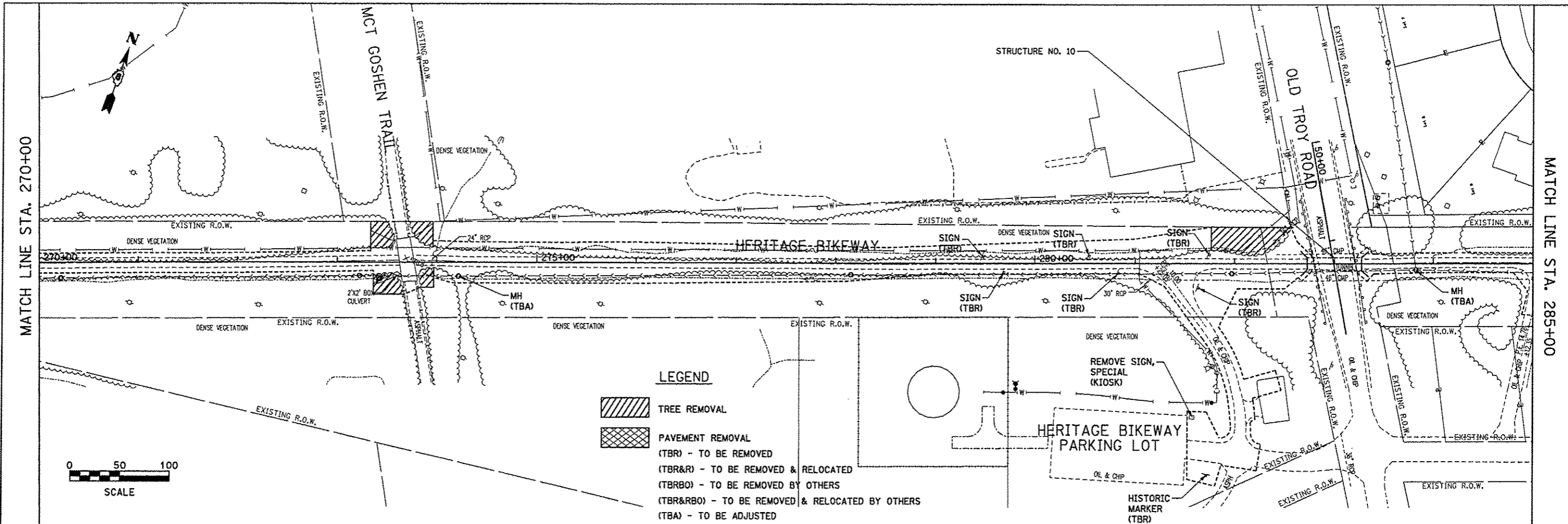
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-  PAVEMENT REMOVAL
- (TBR) - TO BE REMOVED
- (TBR&R) - TO BE REMOVED & RELOCATED
- (TBRBO) - TO BE REMOVED BY OTHERS
- (TBR&RBO) - TO BE REMOVED & RELOCATED BY OTHERS
- (TBA) - TO BE ADJUSTED



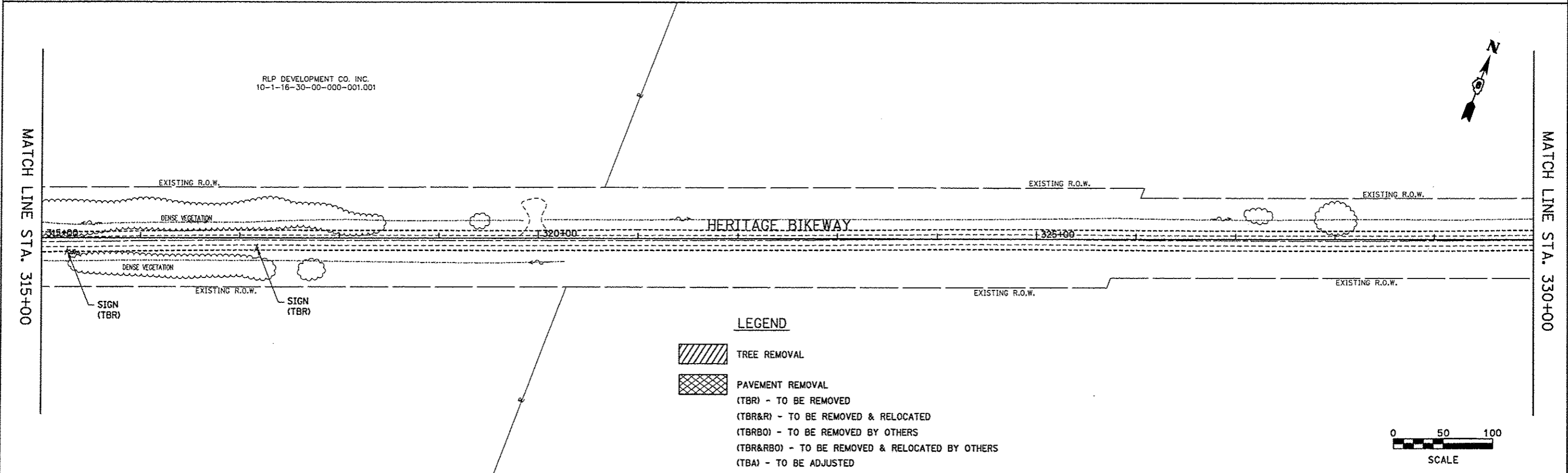
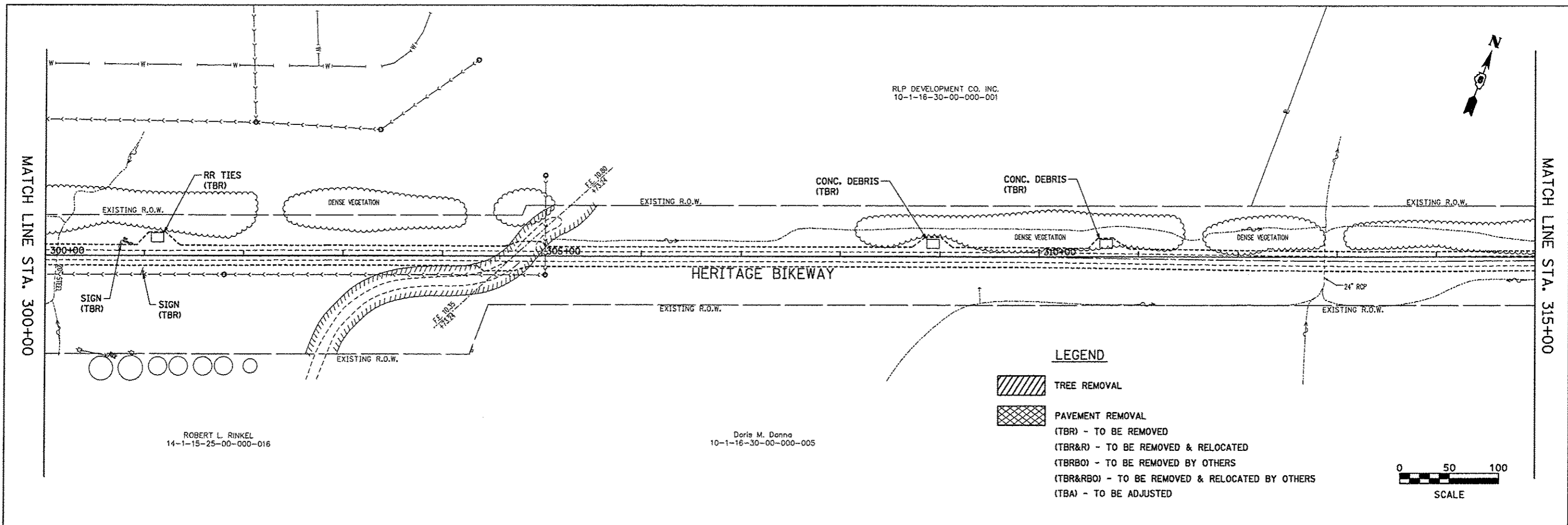
LEGEND

-  TREE REMOVAL
-  PAVEMENT REMOVAL
- (TBR) - TO BE REMOVED
- (TBR&R) - TO BE REMOVED & RELOCATED
- (TBRBO) - TO BE REMOVED BY OTHERS
- (TBR&RBO) - TO BE REMOVED & RELOCATED BY OTHERS
- (TBA) - TO BE ADJUSTED

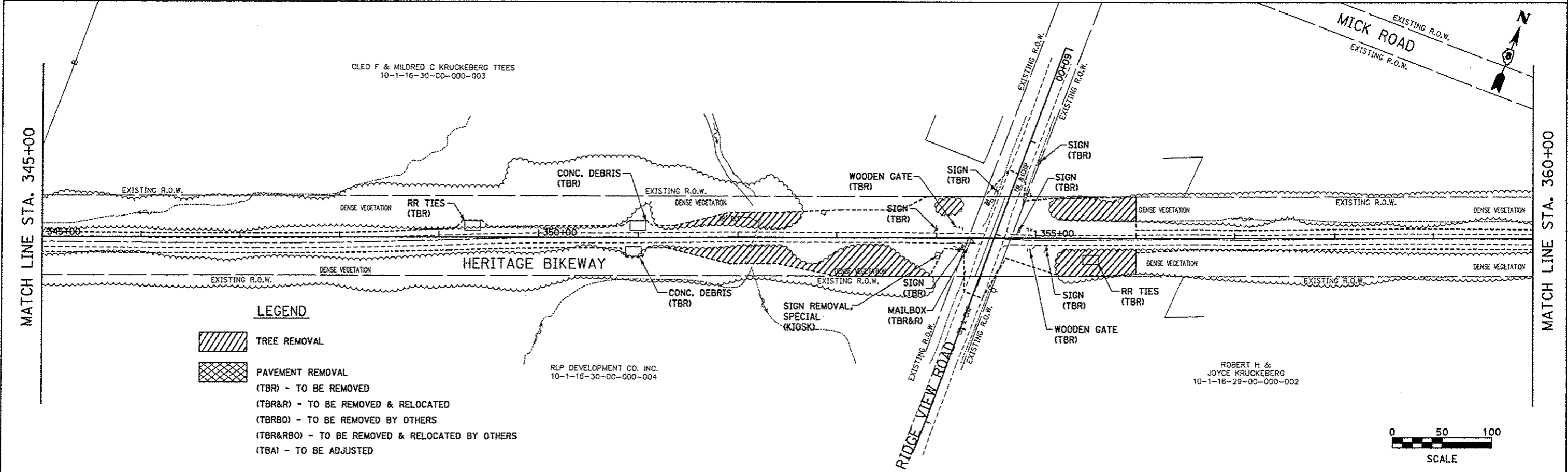
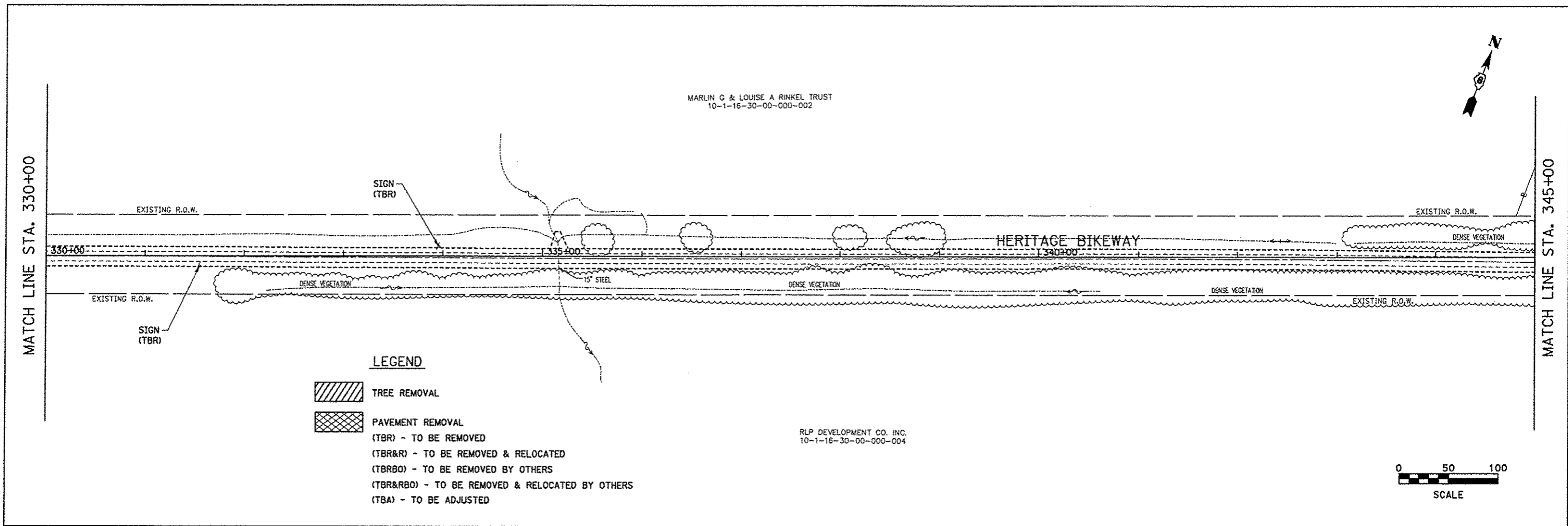
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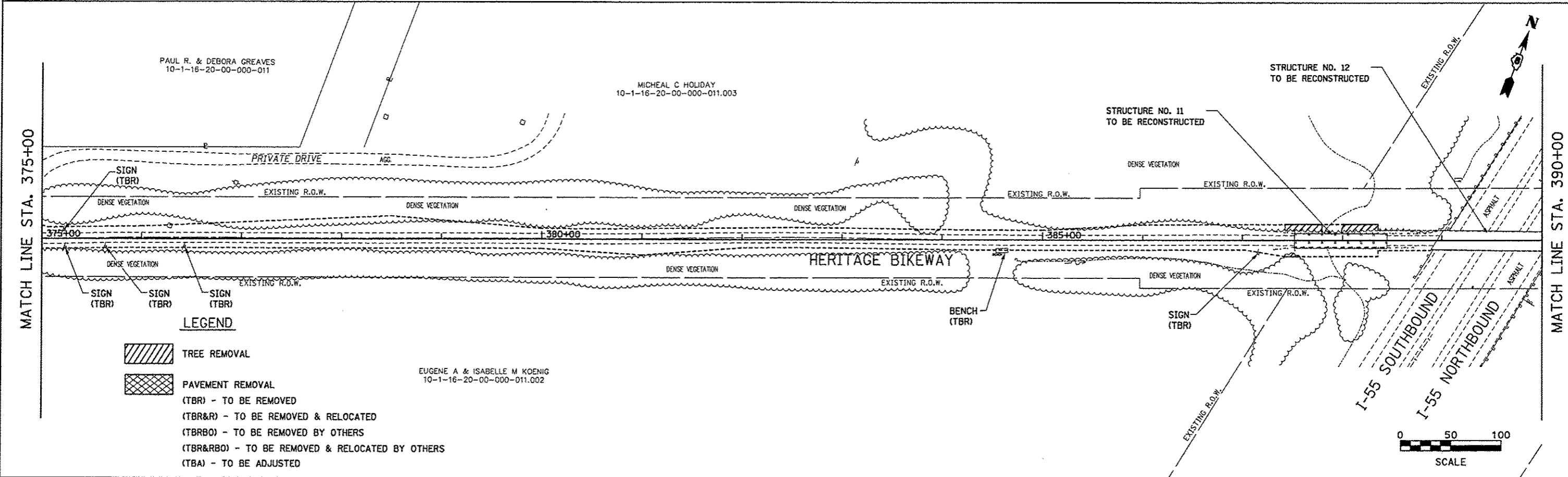
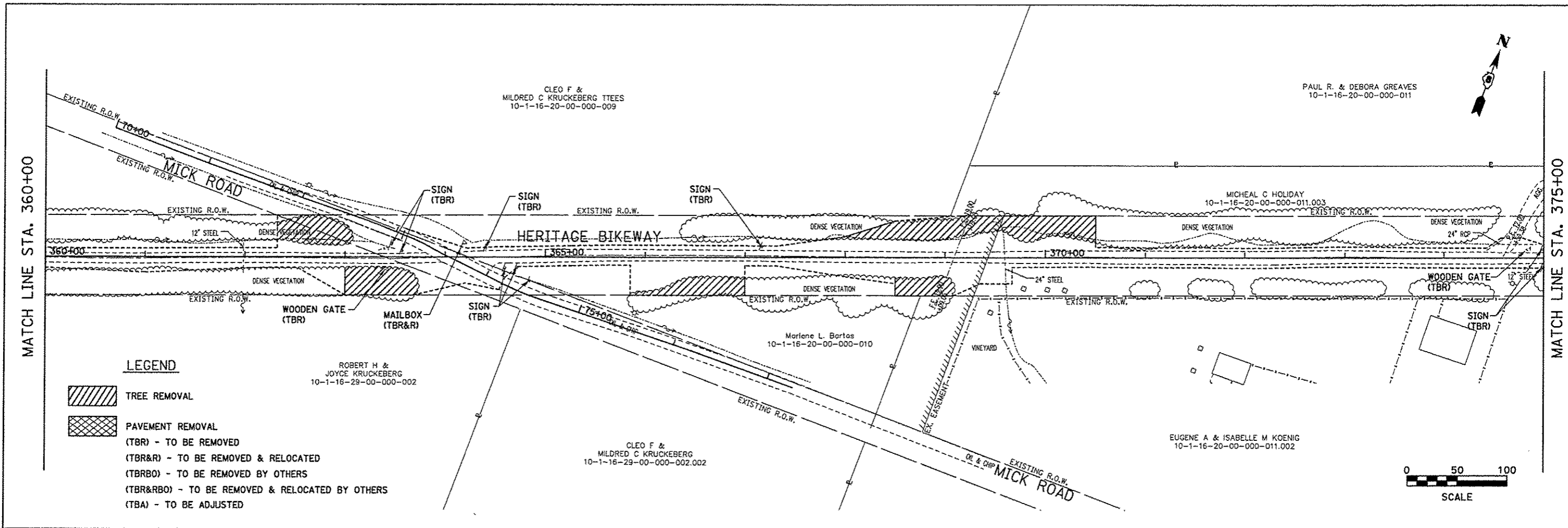
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							CONTRACT NO. 97433					
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



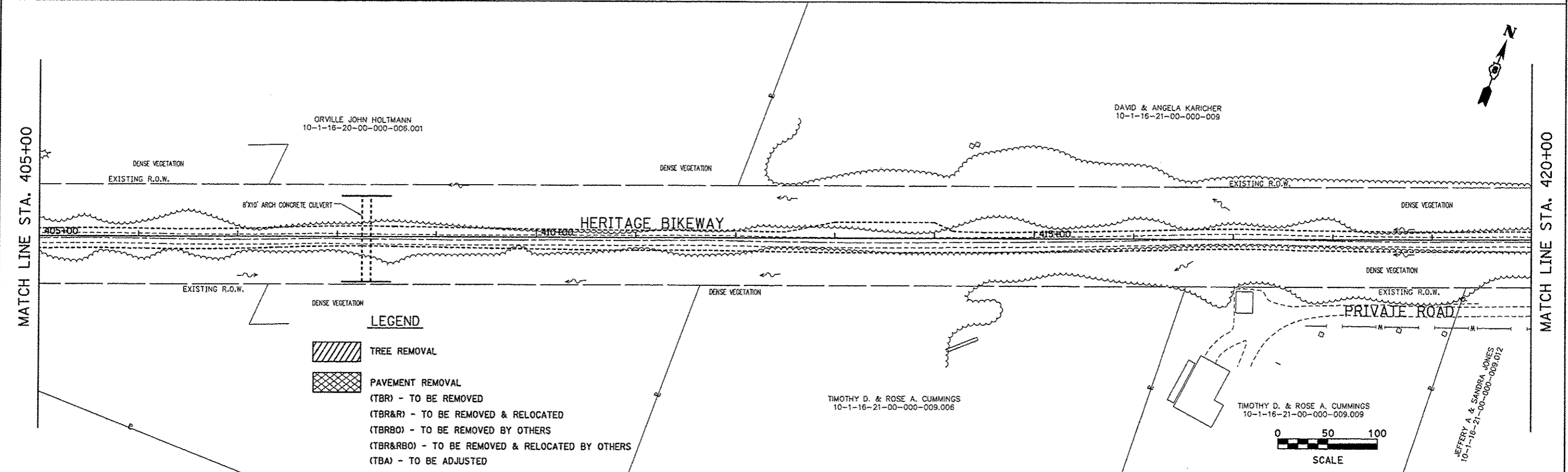
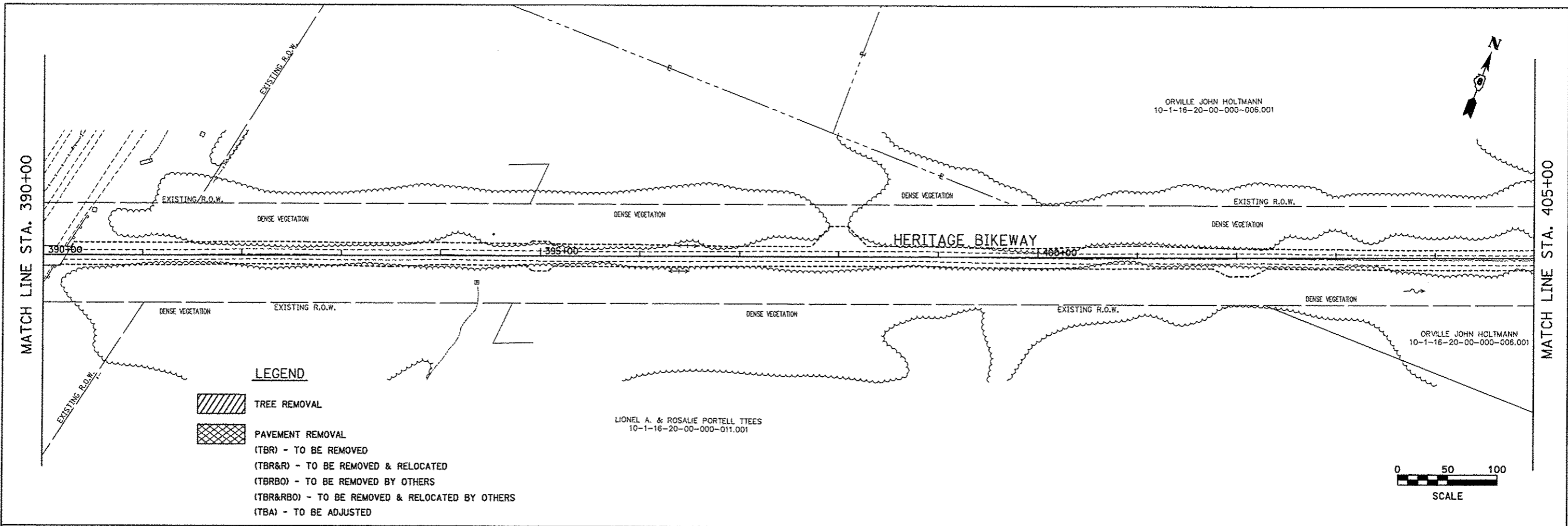
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PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED -	REVISED -		SCALE: 1" = 50' SHEET NO. 8 OF 15 SHEETS STA. 300+00.00 TO STA. 330+00.00			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 97433		
	DATE - 11/30/12	REVISED -	REVISED -									



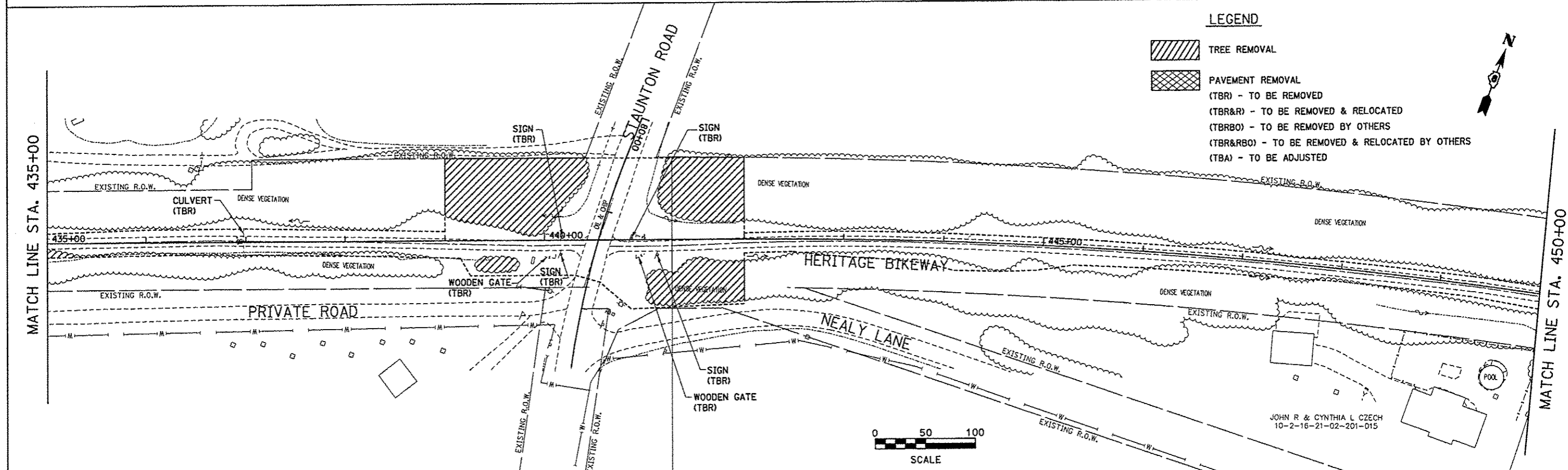
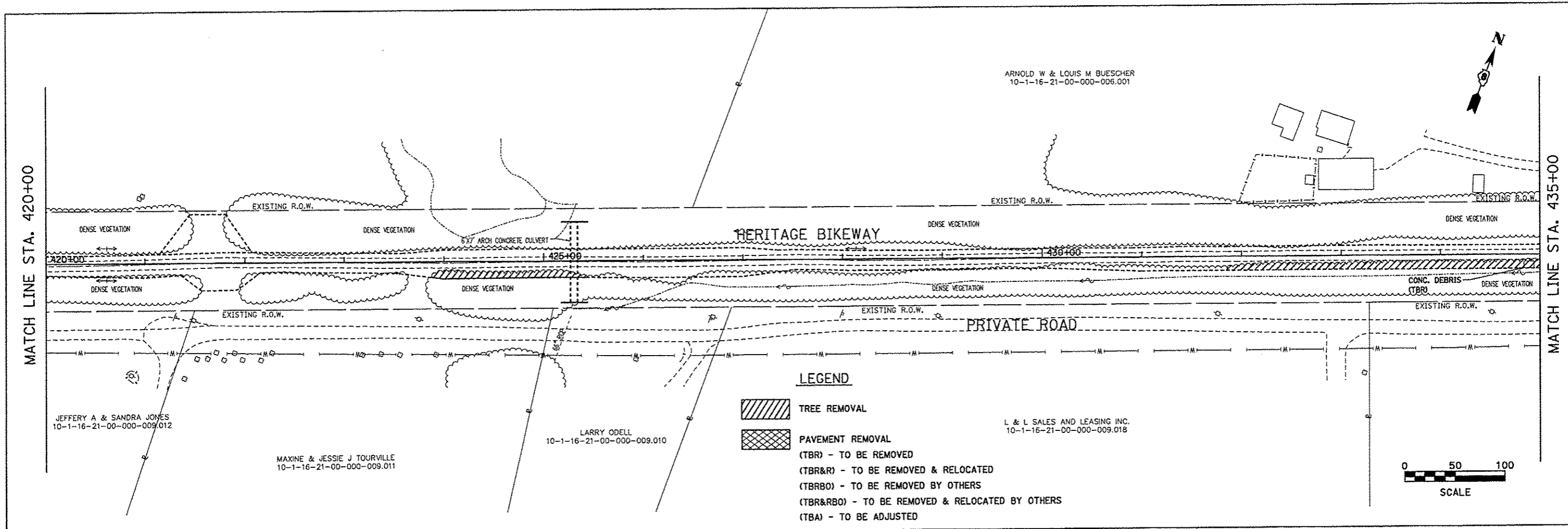
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					SCALE: 1" = 50'	SHEET NO. 9 OF 15 SHEETS		STA. 330+00.00 TO STA. 360+00.00		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT



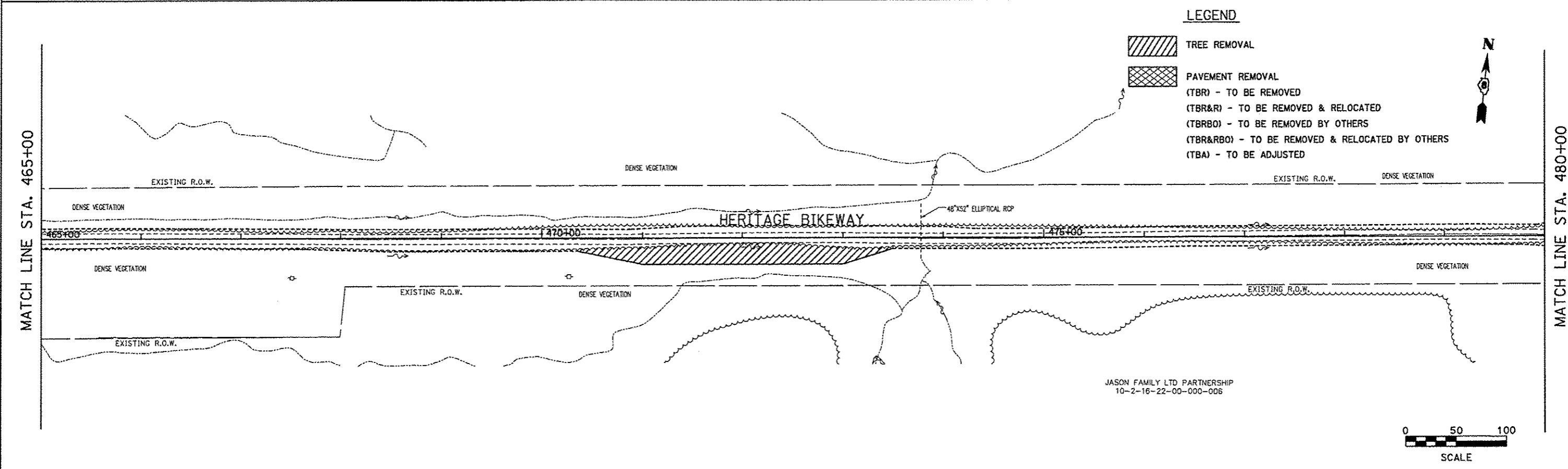
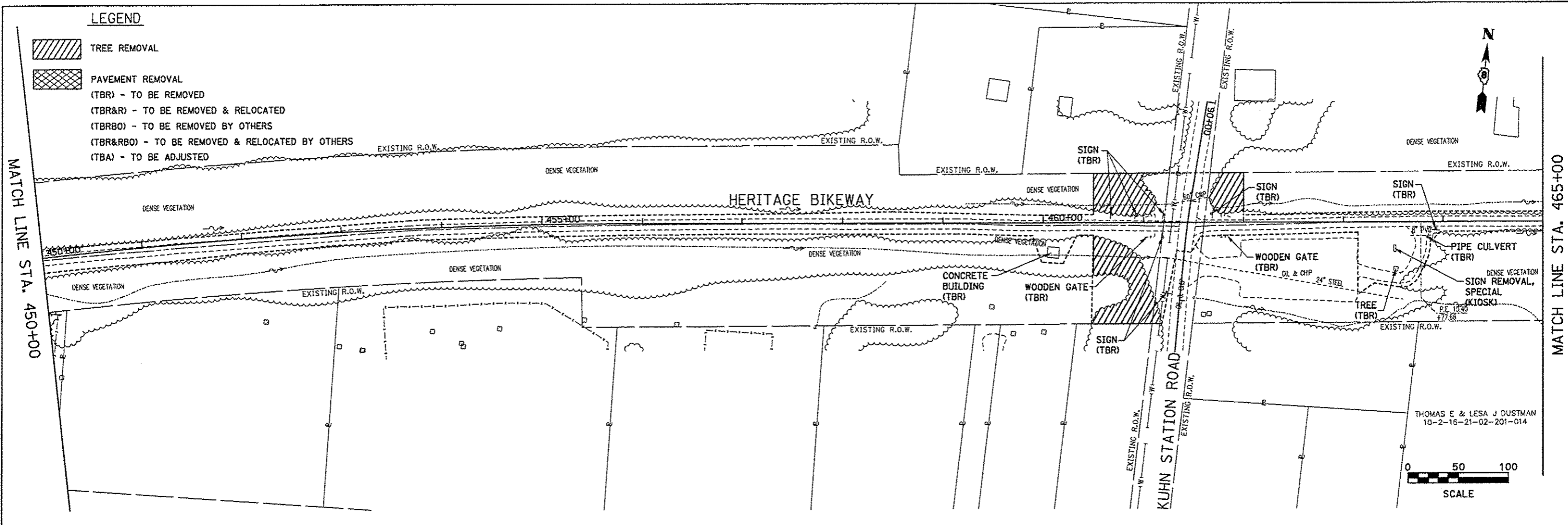
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		DATE - 11/30/12	REVISED -					ILLINOIS FED. AID PROJECT				



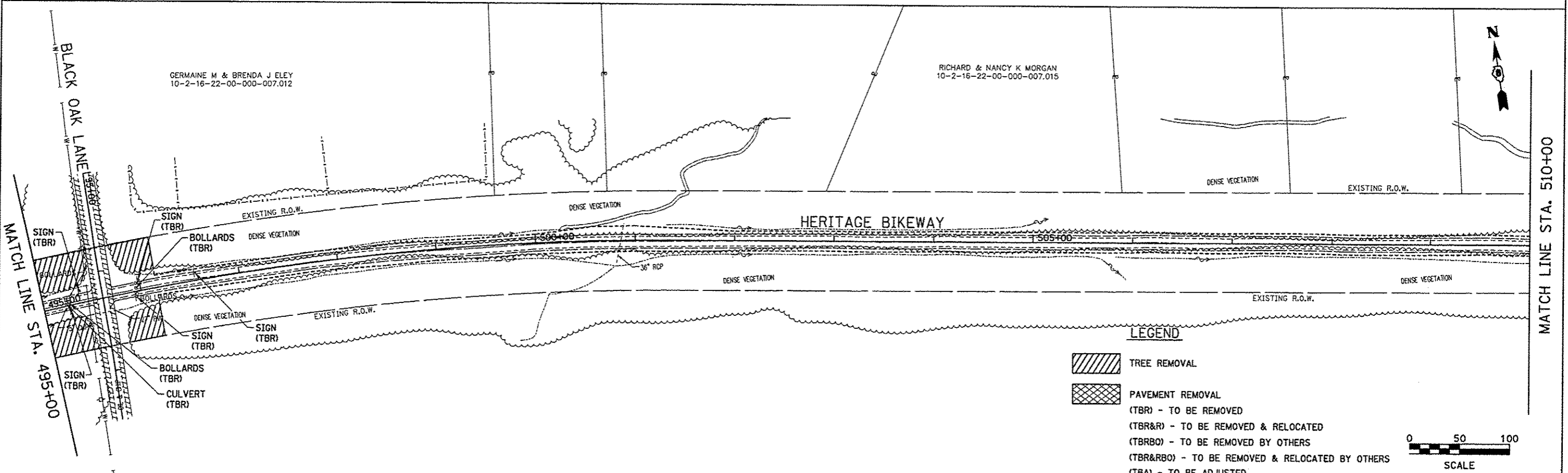
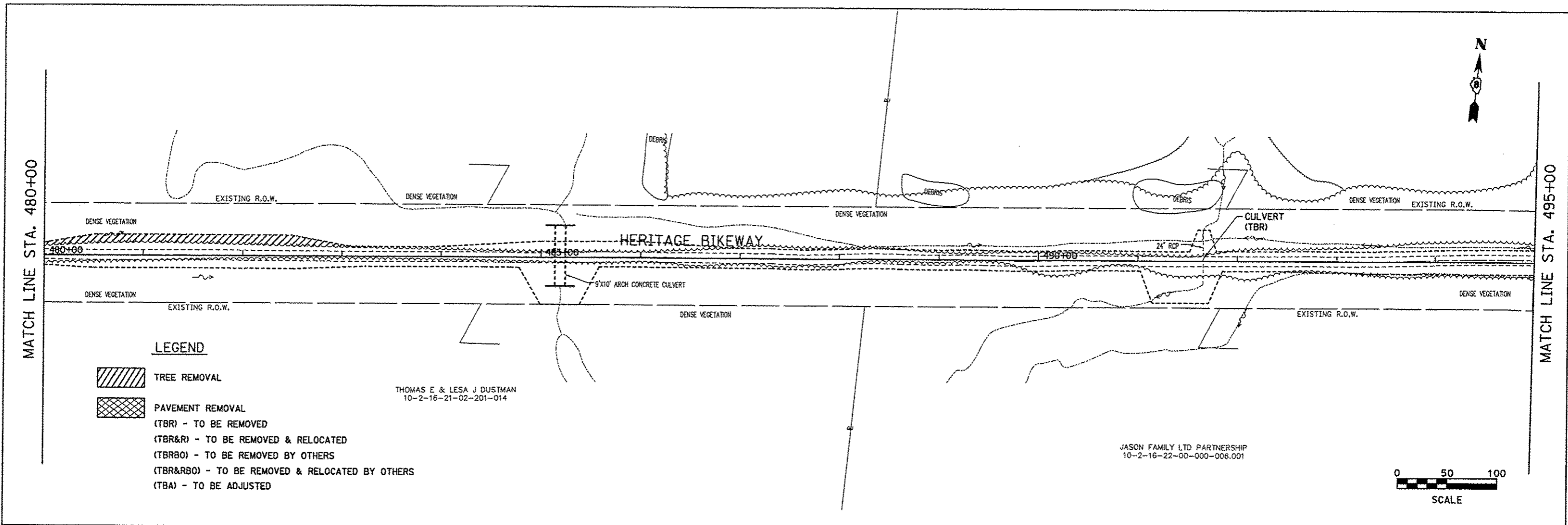
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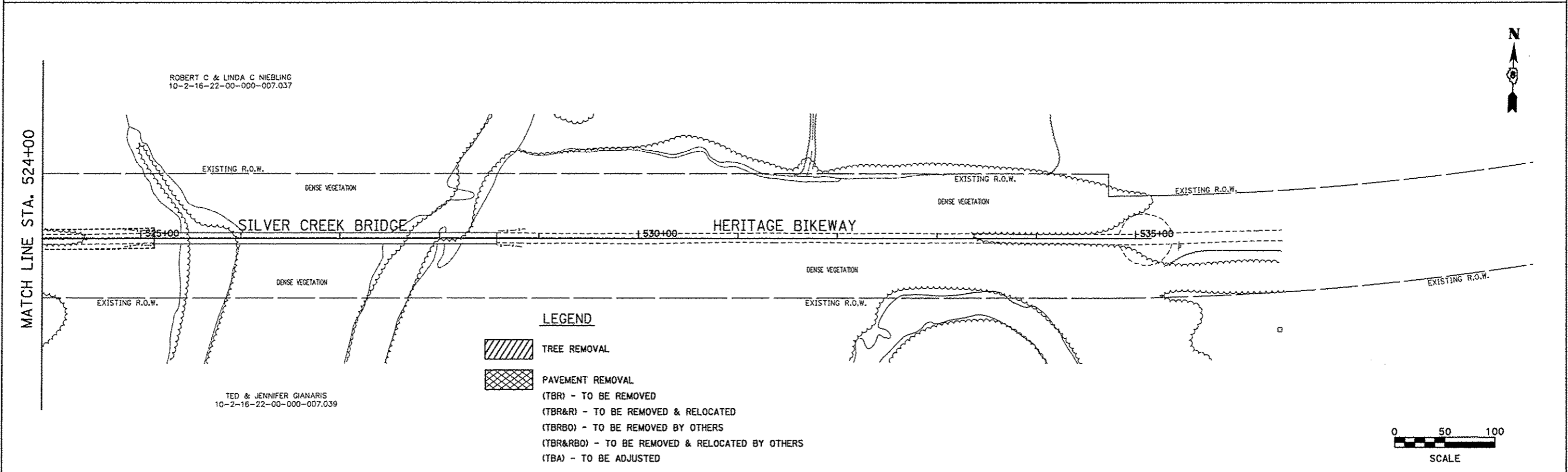
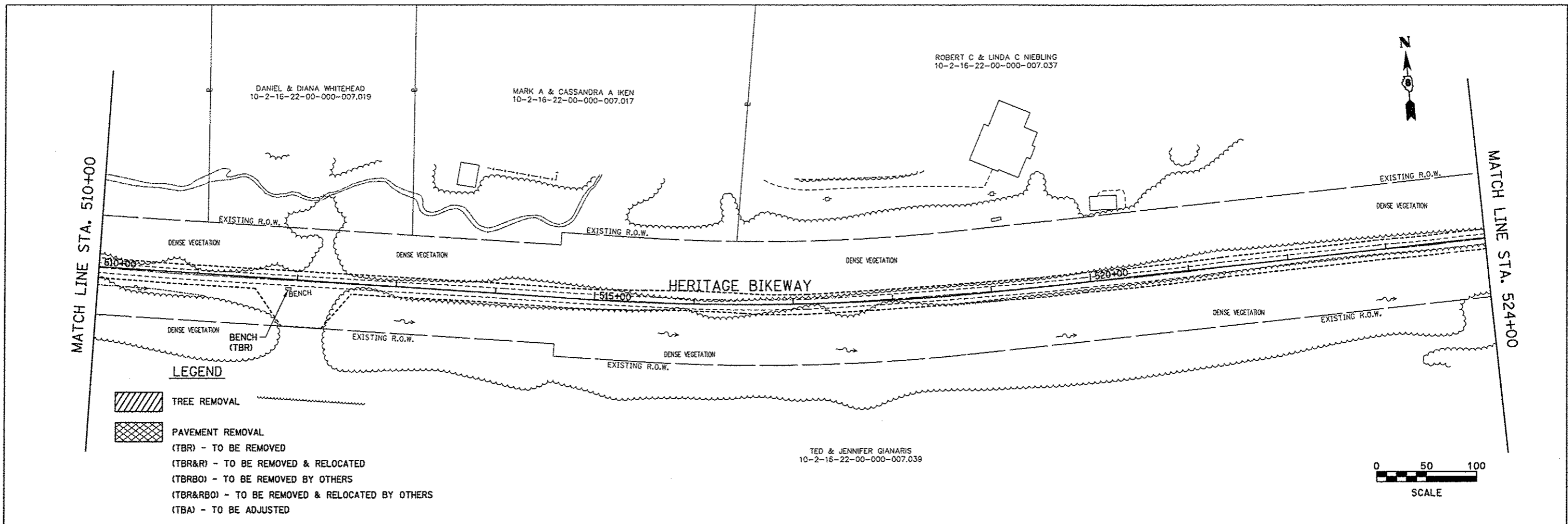
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		DATE - 11/30/12	REVISED -					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



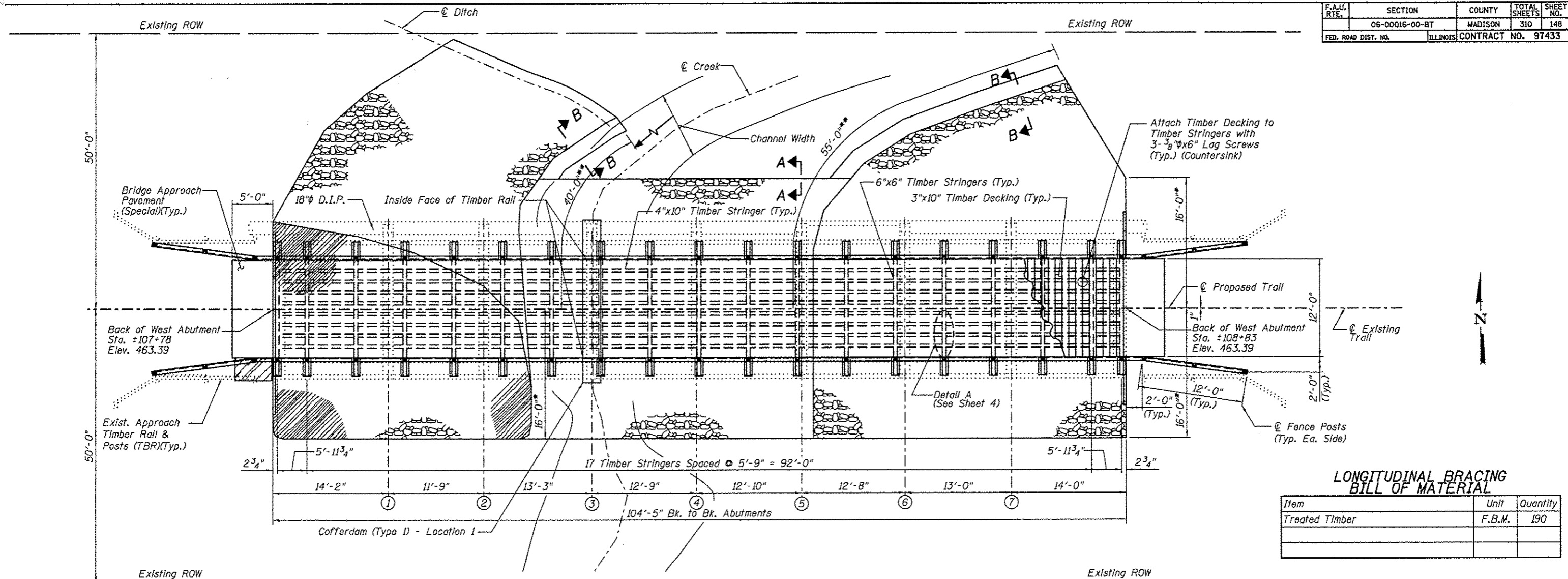
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	DATE - 11/30/12	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT									
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		PLOT DATE = 12/18/2012	DATE = 11/30/12					ILLINOIS FED. AID PROJECT				



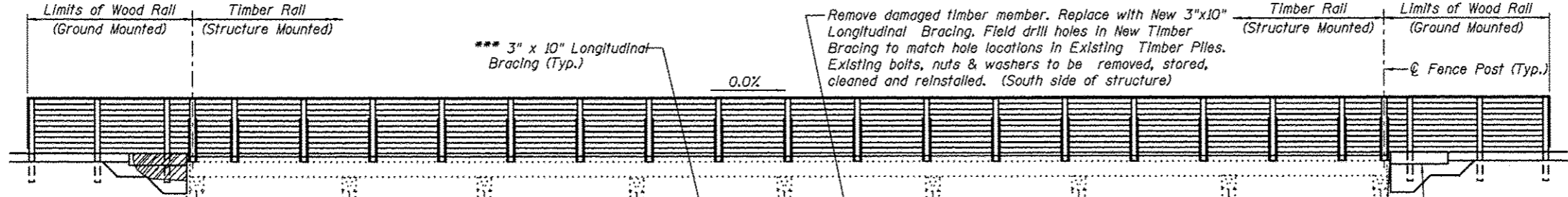
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	PLOT DATE = 12/18/2012	CHECKED - WJB	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
		DATE - 11/30/12	REVISED -									



**LONGITUDINAL BRACING
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	190

PLAN



Notes:
 All dimensions are approximate.
 For General Notes and Total Bill of Material, see Sheet No. 2
 For Cross Sections and Approach Slab Detail, see Sheet No. 3
 For Section A-A & B-B and Stone Riprap Detail, see Sheet No. 3
 All new timber members shown shall be included in the pay item Treated Timber.

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

Wesley W. Herndon, S.E.
 DATE: 1/2/13

Expire 11-30-13

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2120 South Stearns, P.O. Box 1205 Springfield, IL 62761-1205 Phone: (618) 241-1100 Fax: (618) 241-2941		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
		DSN. BY: DB	DATE: 10/18/12
		DWN. BY: EER	DATE: 10/18/12
		CHK'D: WWH	DATE: 10/18/12
DGN NAME:		JOB NO. E064403	DGN. NO. OF 318 SHTS

ELEVATION
(Looking North)

1/2/2013 8:26:55 AM Printed
 \\STRUCTURE\064403\NET\Herndon\Structure\06-Proposed Structure (07-2021)\00148\Plan & Elevation.dgn

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	149
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, slims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long as may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi (Concrete)
 f_y = 36,000 psi (Structural Steel)
 f_y = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each	1		1
Wood Rail	Foot	58		58
Tree Removal, Acres	Acres		0.05	0.05
Channel Excavation	Cu. Yd.		80	80
Furnished Excavation	Cu. Yd.		105	105
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A6	Sq. Yd.		585	585
Filter Fabric	Sq. Yd.		585	585
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
* Concrete Encasement	Cu. Yd.		5.0	5.0
Treated Timber	F.B.M.	10538	1488	12025
Timber Beam Repair	Lump Sum		1	1
Cofferdam (Type I) - Location 1	Each		1	1

* Concrete Encasement quantity has been increased to account for hidden deficiencies

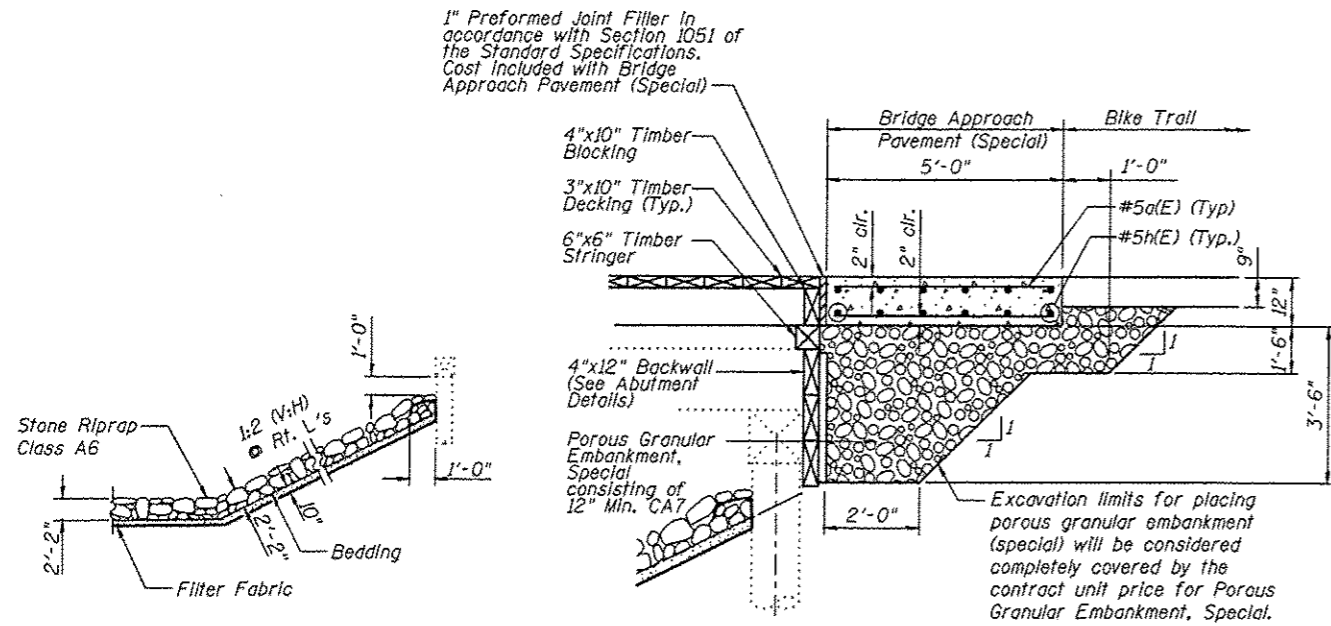
GENERAL NOTES

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 Shea Street, P.O. Box 1202
Granite City, Illinois 62040
Phone: (618) 651-1400
Fax: (618) 651-9541

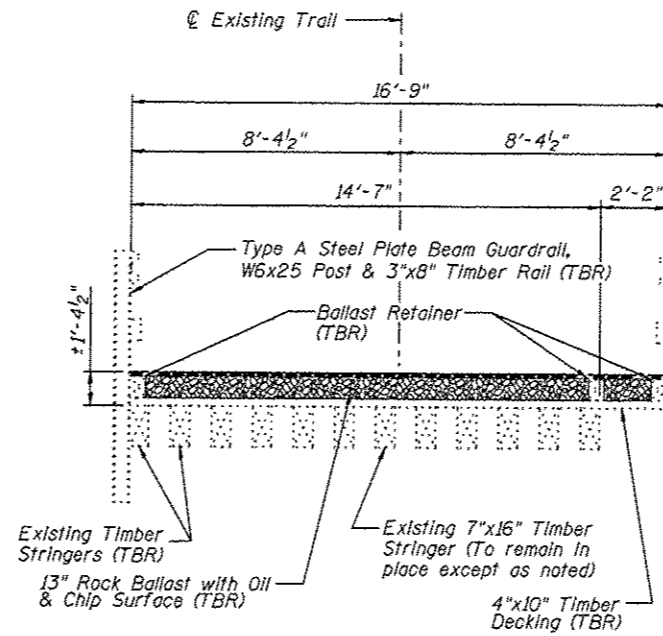
GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 108+17.70
STRUCTURE NO. 1

REVISIONS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS			
NO.	DATE	BY	REMARKS	DSN. BY:	DATE:	DATE:	SHEET
				DB	10/18/12		149
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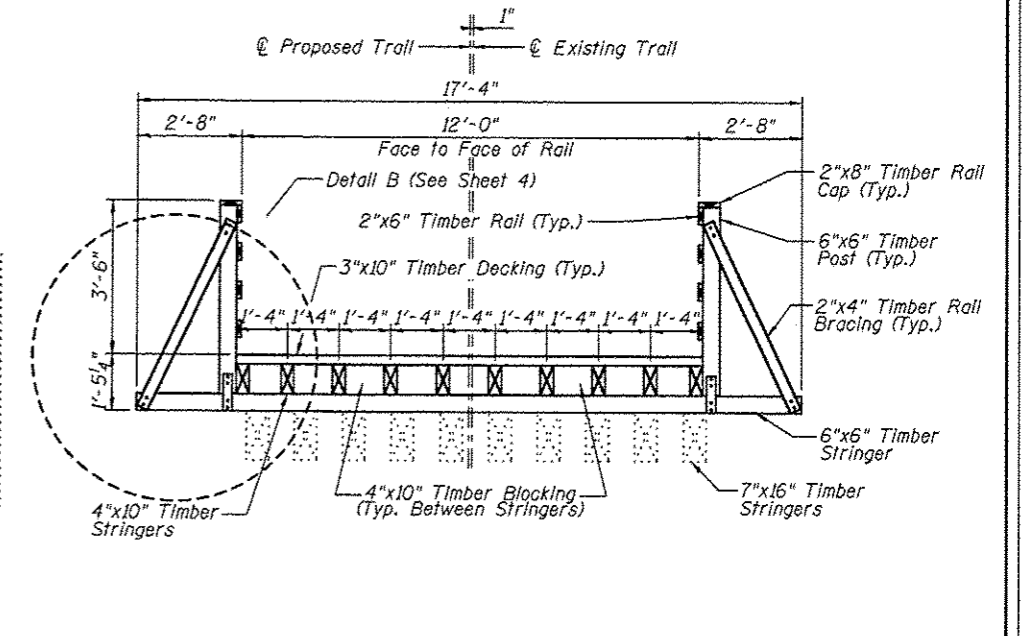
1" Preformed Joint Filler in accordance with Section 1051 of the Standard Specifications. Cost Included with Bridge Approach Pavement (Special)



BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL

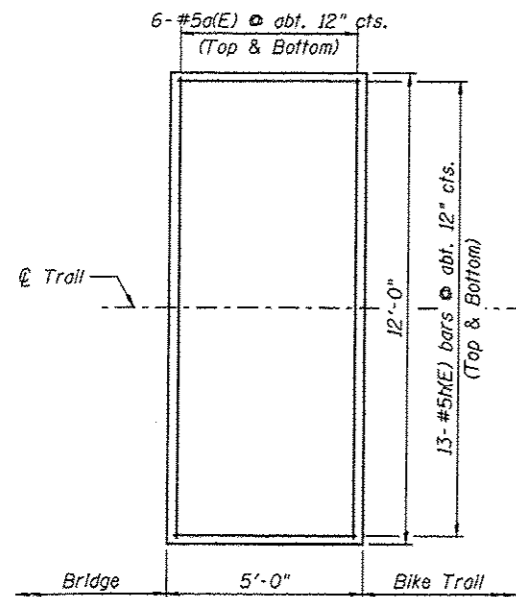


EXISTING CROSS SECTION (Looking East)

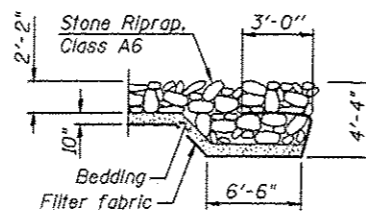


PROPOSED CROSS SECTION (Looking East)

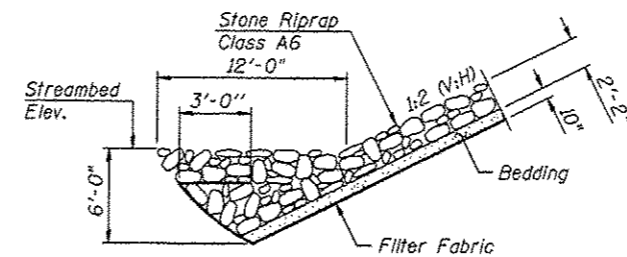
STONE RIPRAP DETAIL



BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN
Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A



SECTION B-B

BRIDGE APPROACH BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

Note:

All dimensions are approximate.

For Treated Timber quantity, see Sheet No. 4

All new timber members shown shall be included in the pay item Treated Timber.

All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3x8 inch Timber Rail and 7x16 inch Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

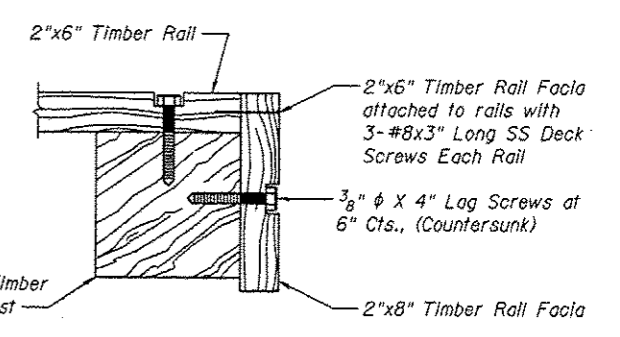
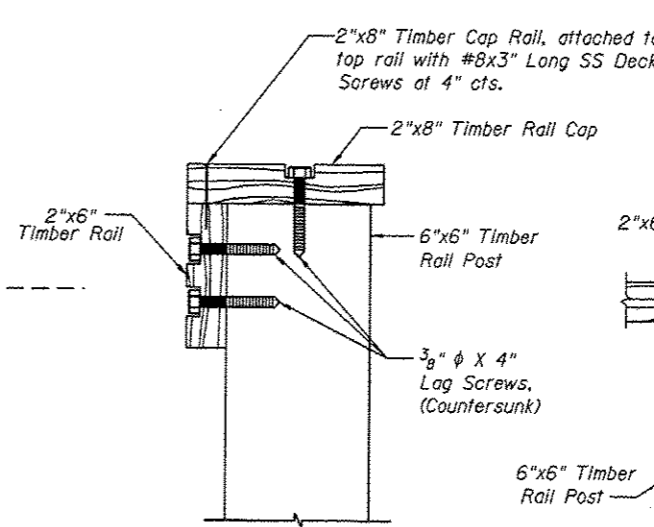
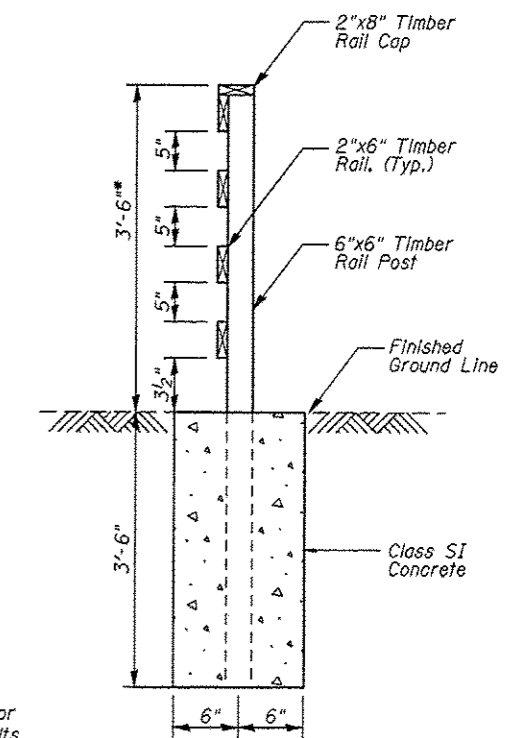
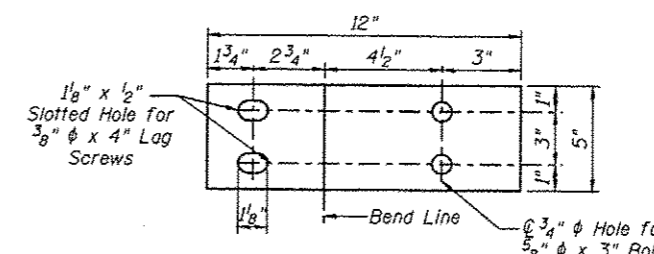
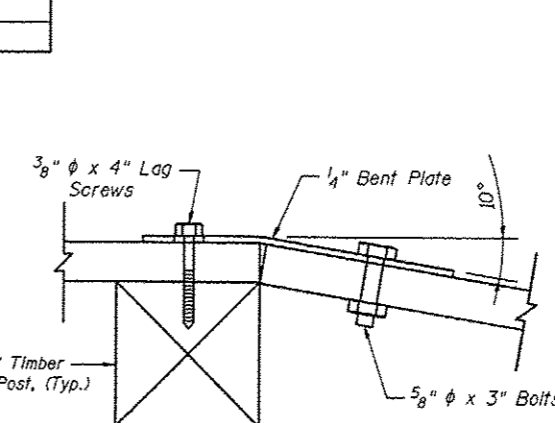
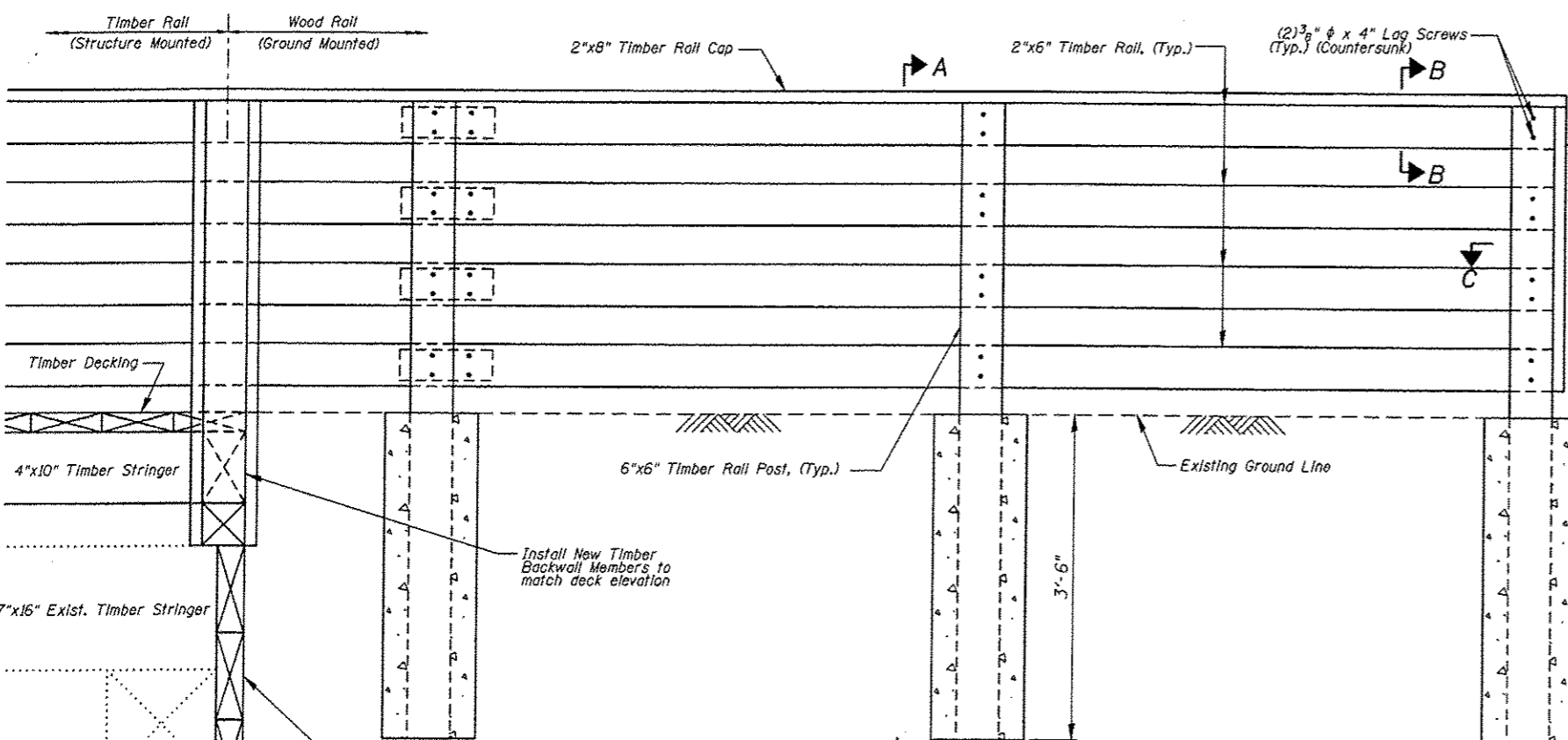
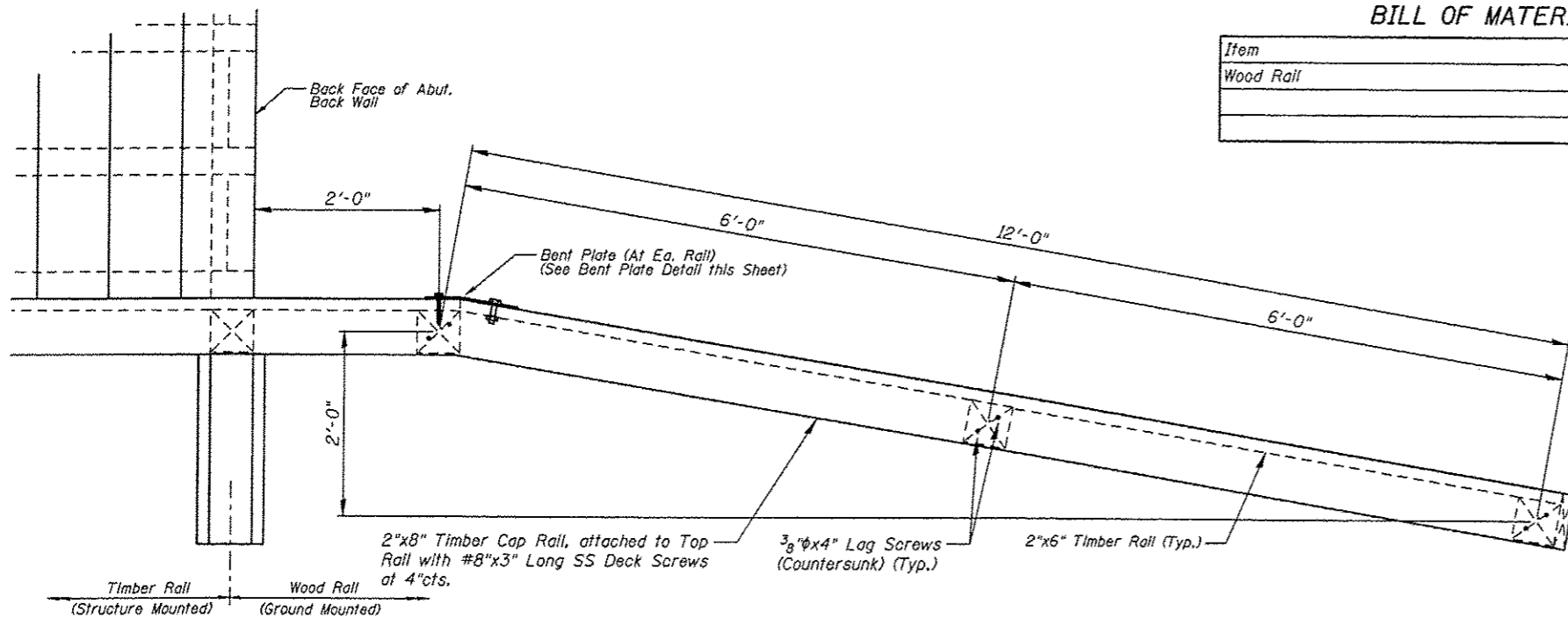
CROSS SECTIONS

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1324 Juneau, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-9541</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>DSN. BY: DB</p>		<p>DATE: 10/18/12</p>									
<p>DWN. BY: EER</p>		<p>DATE: 10/18/12</p>									
<p>CHK'D: WWH</p>		<p>DATE: 10/18/12</p>									
<p>DGN NAME:</p>		<p>JOB NO. E064403 DGN. NO. OF 310 SHEETS</p>									

WOOD RAIL BILL OF MATERIAL

Item	Unit	Quantity
Wood Rail	Foot	58

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	152
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	



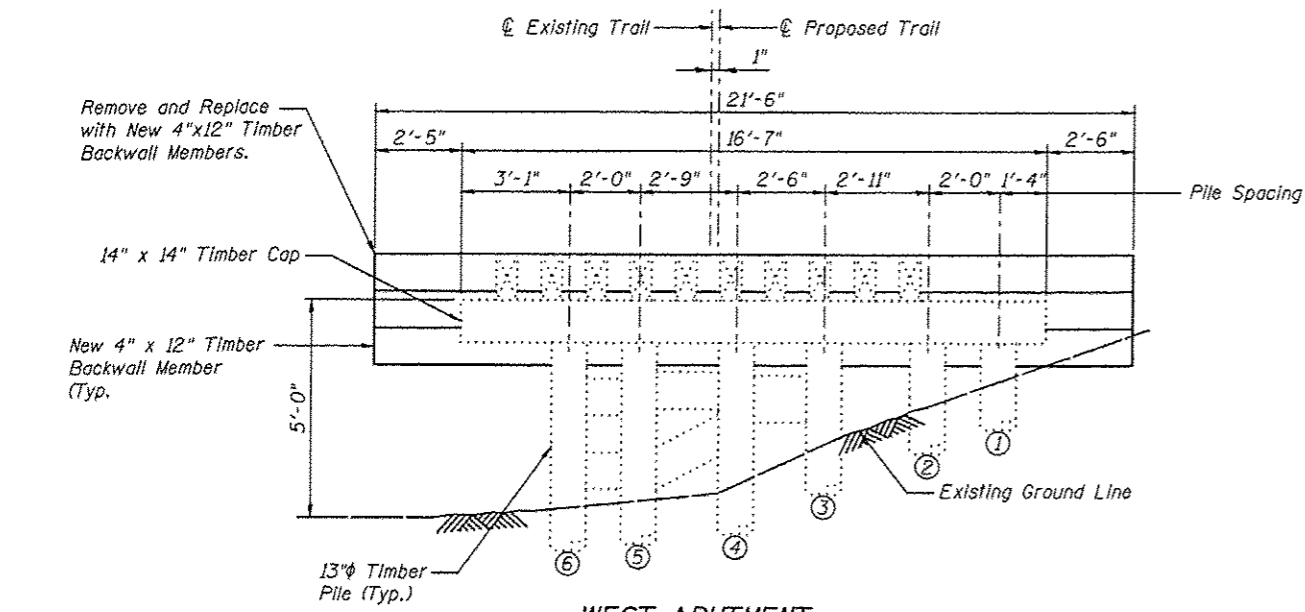
Note:
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

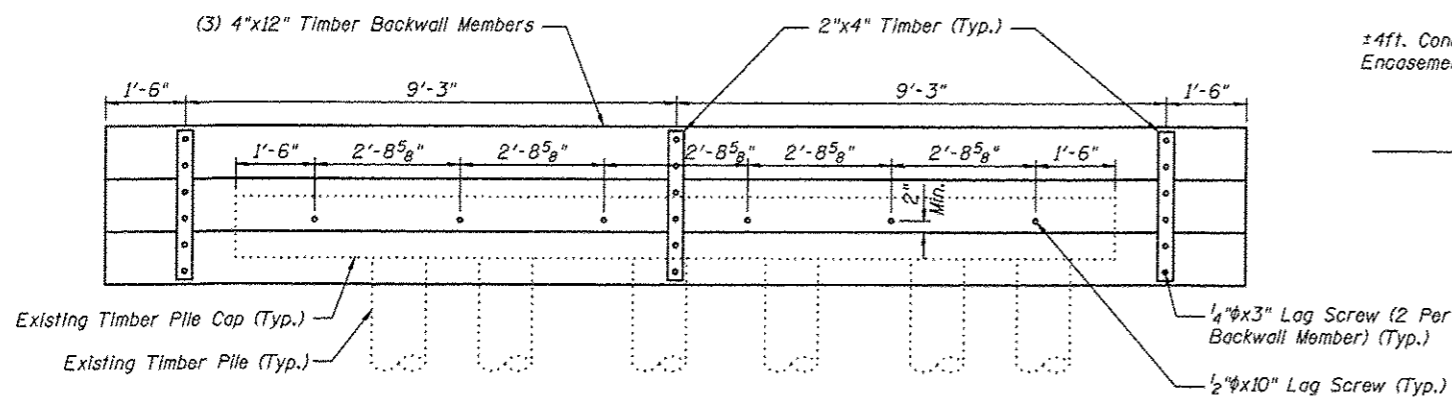
*Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

WOOD RAIL DETAILS																		
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1235 Ogden, Utah 84201 Phone: (435) 331-1100 Fax: (435) 331-1101</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1</p>																
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p> <table border="1"> <tr> <td>DSN. BY: DB</td> <td>DATE: 10/18/12</td> <td rowspan="3">SHEET 152</td> </tr> <tr> <td>DWN. BY: EER</td> <td>DATE: 10/18/12</td> </tr> <tr> <td>CHE'D: WWH</td> <td>DATE: 10/18/12</td> </tr> </table>		DSN. BY: DB	DATE: 10/18/12	SHEET 152	DWN. BY: EER	DATE: 10/18/12	CHE'D: WWH	DATE: 10/18/12
NO.	DATE	BY	REMARKS															
DSN. BY: DB	DATE: 10/18/12	SHEET 152																
DWN. BY: EER	DATE: 10/18/12																	
CHE'D: WWH	DATE: 10/18/12																	
<p>DGN NAME:</p>		<p>JOB NO. E064403 DGN. NO. OF 310 SHTS</p>																

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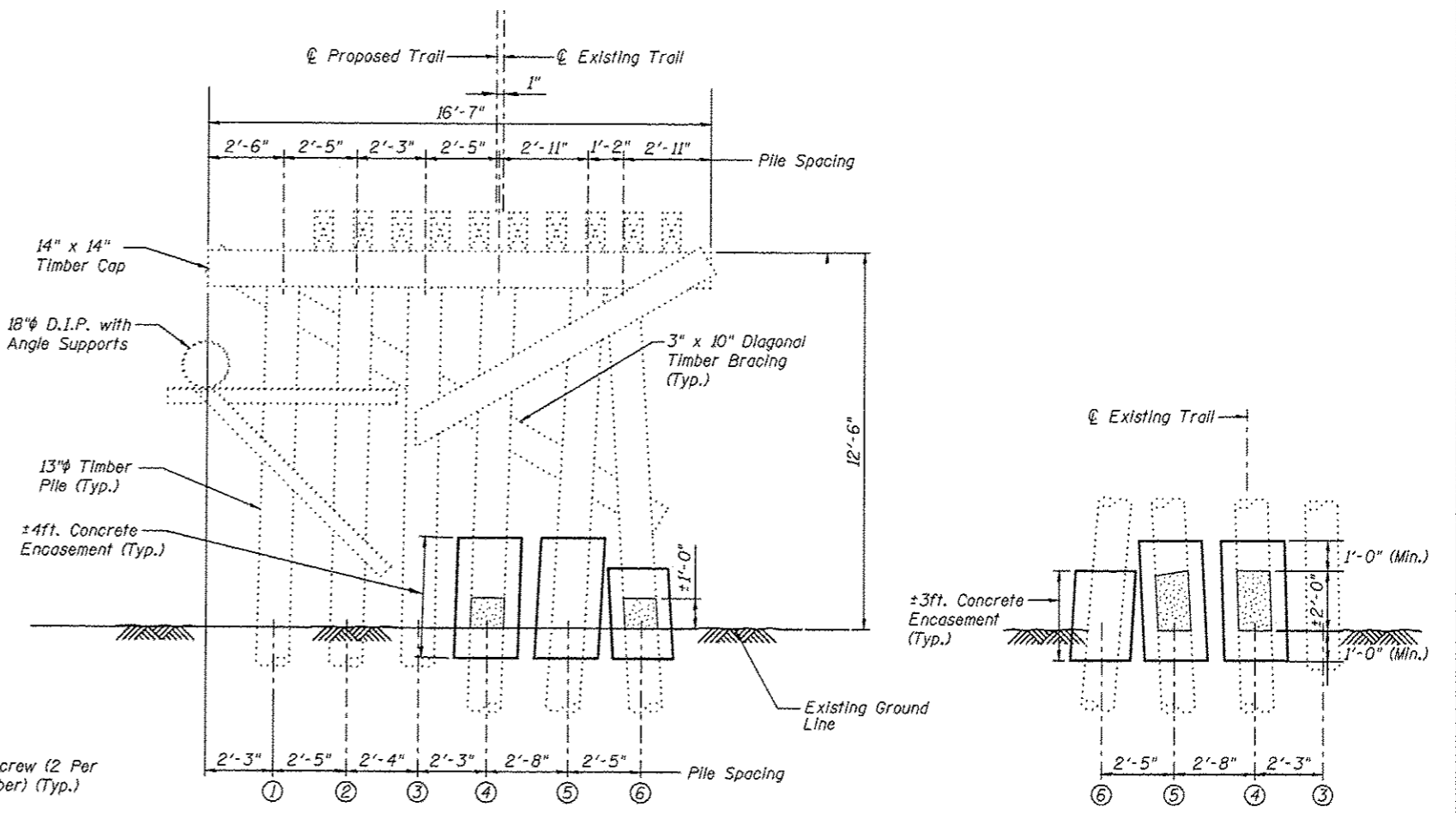
WEST ABUTMENT
(Looking West)



WEST ABUTMENT
(Looking East)

WEST ABUTMENT BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	264



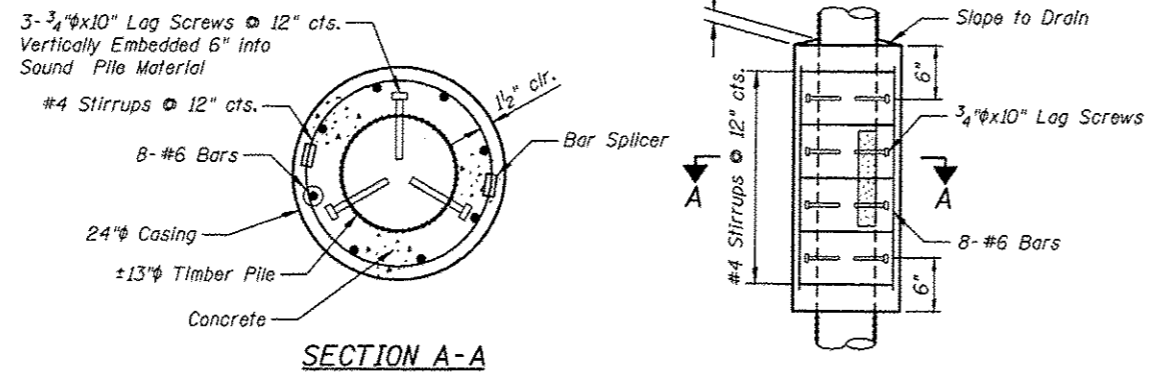
PIER 1
(Looking East)

PARTIAL PIER 1 ELEVATION
(Looking West)

PIER 1 BILL OF MATERIAL

Item	Unit	Quantity
Concrete Encasement	Cu Yd	1.3

For estimated quantities, see Special Provisions.



SECTION A-A

Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS

Legend

Area of Deterioration

Notes:

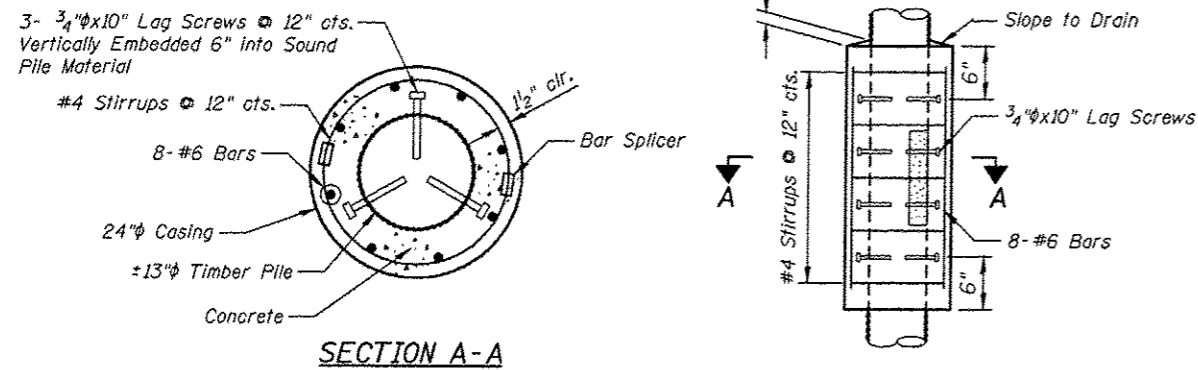
All dimensions are approximate.

Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

All new timber members shown shall be included in the pay item Treated Timber.

WEST ABUTMENT & PIER 1 DETAILS 		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS								
DGN. BY: DB DWN. BY: EER CHR'D: WWH		DATE: 10/18/12 DATE: 10/18/12 DATE: 10/18/12									
DGN NAME:		JOB NO. E064403 DGN. NO.									
SHEET		153									
OF 810 SHEETS		OF 810 SHEETS									

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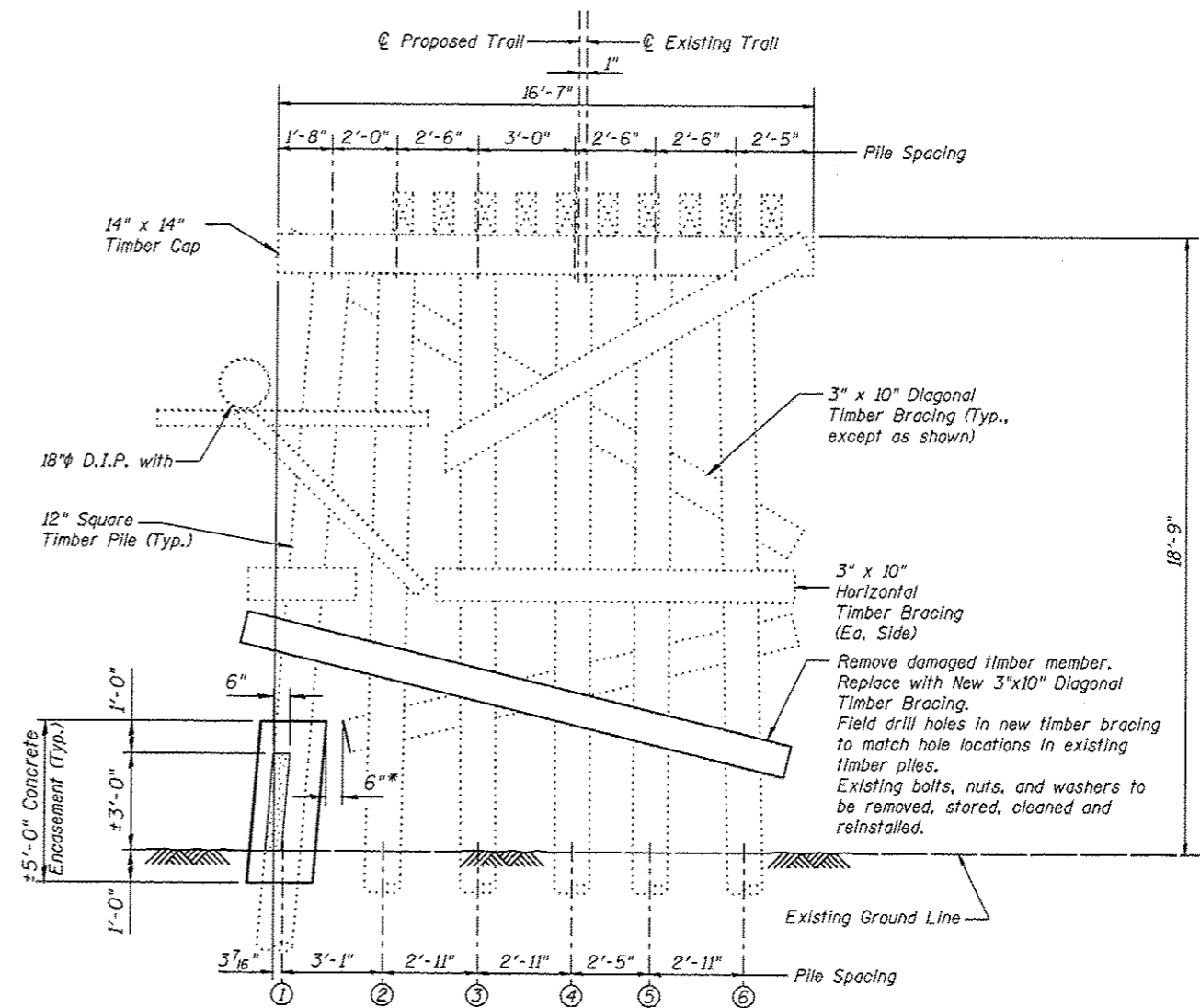
Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, partial removal of bracing, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS

**PIER 2
BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Encasement	Cu Yd	0.6
Treated Timber	F.B.M.	50

For Concrete Encasement Estimated Quantities, see Special Provisions.



**PIER 2
(Looking East)**

Legend
Area of Deterioration

Notes:

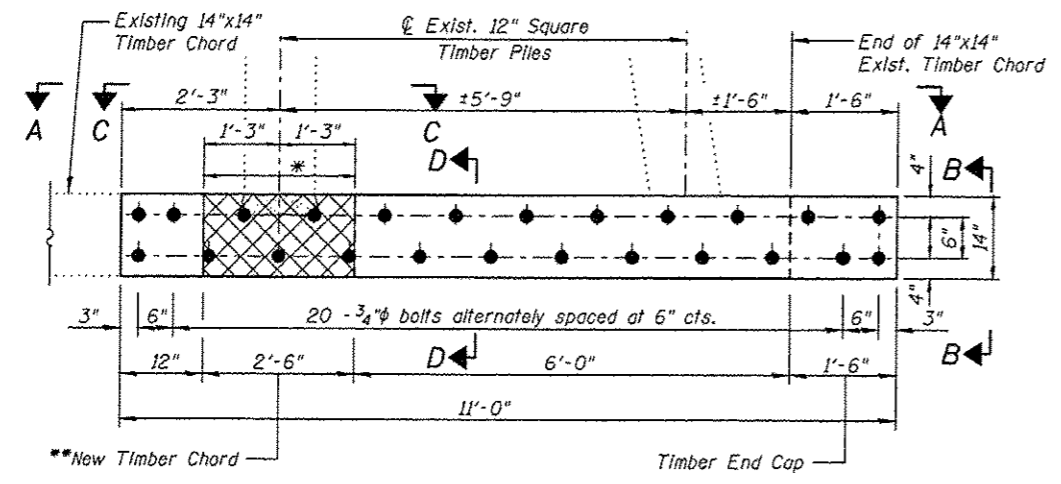
All dimensions are approximate.

Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

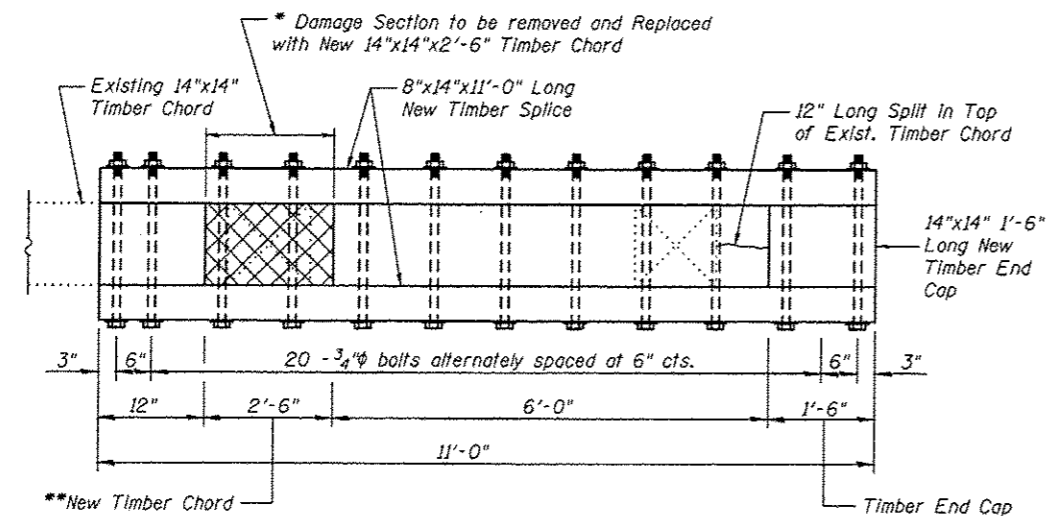
All new timber members shown shall be included in the pay item Treated Timber.

* Existing timber bracing that interferes with the Concrete Encasement shall be removed a max distance of 6" beyond the face of the Concrete Encasement. Cost Included with Concrete Encasement.

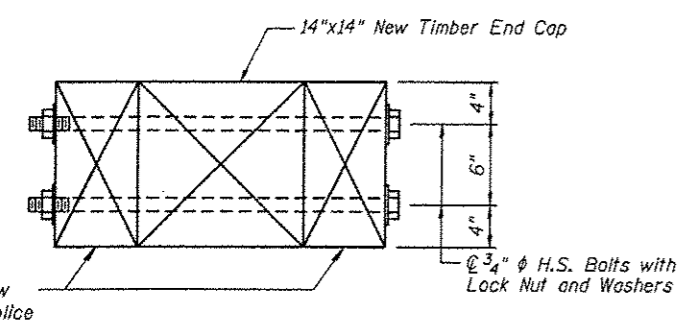
PIER 2 DETAILS Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 1710 State Street, P.O. Box 1375 Juneau City, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-0541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB	DATE: 10/18/12	SHEET	
DWN. BY: EER	DATE: 10/18/12	154	
CHK'D: WNH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	DP 810 SHEETS



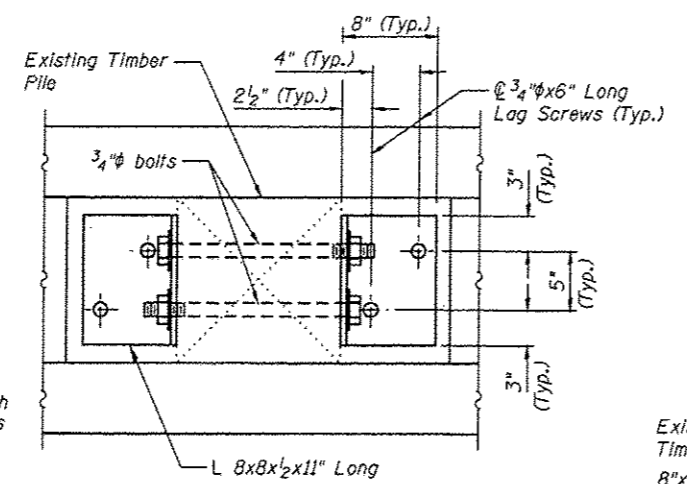
ELEVATION OF TIMBER BEAM REPAIR



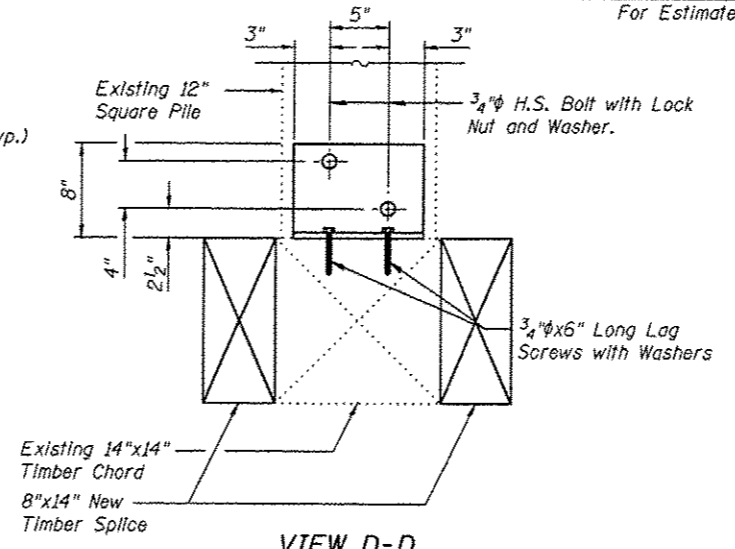
VIEW A-A



VIEW B-B

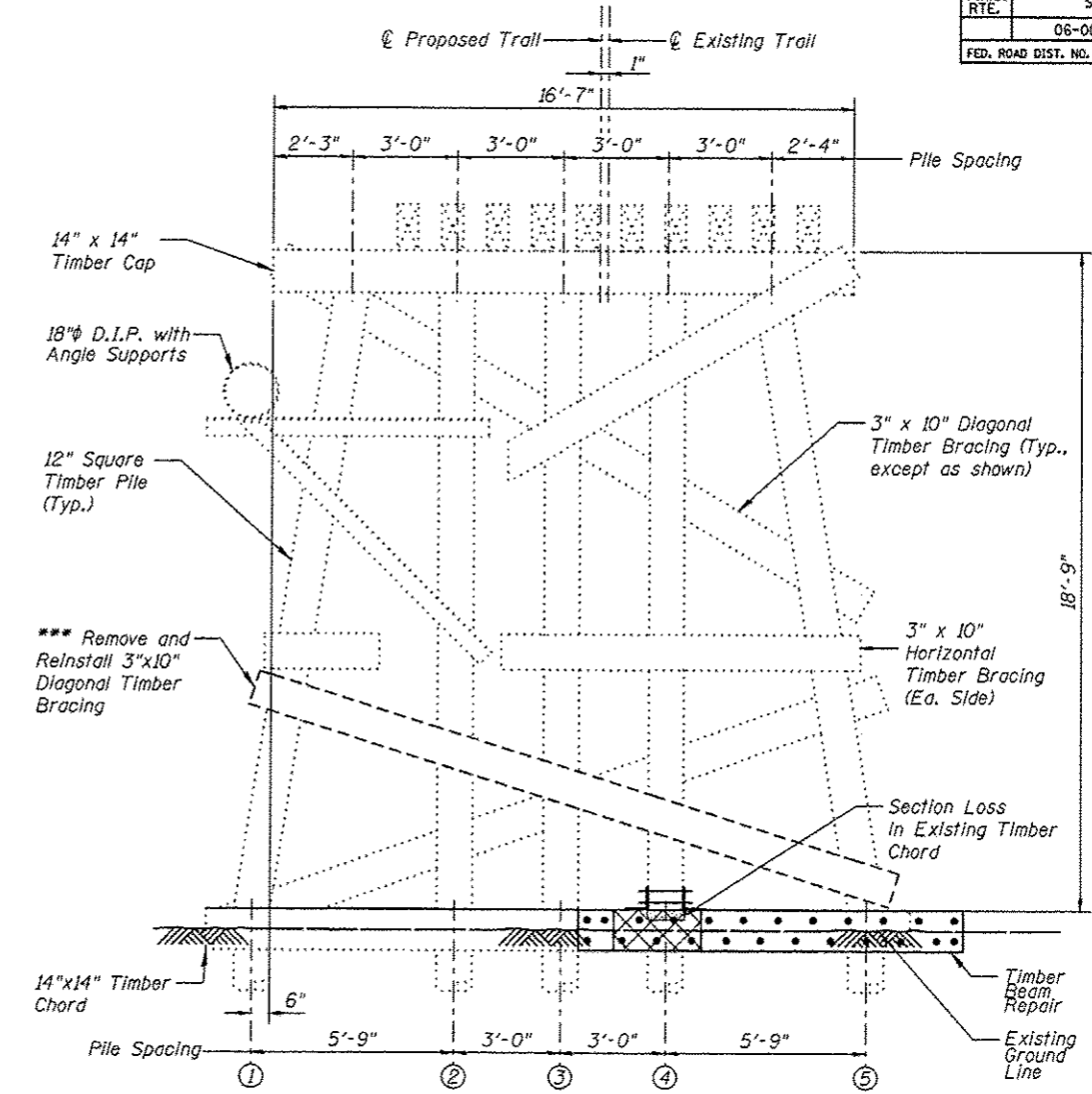


VIEW C-C



VIEW D-D

TIMBER BEAM REPAIR DETAILS



PIER 3 (Looking East)

PIER 3 BILL OF MATERIAL

Item	Unit	Quantity
Timber Beam Repair	Lump Sum	1

Legend

	Area of Deterioration
	Split

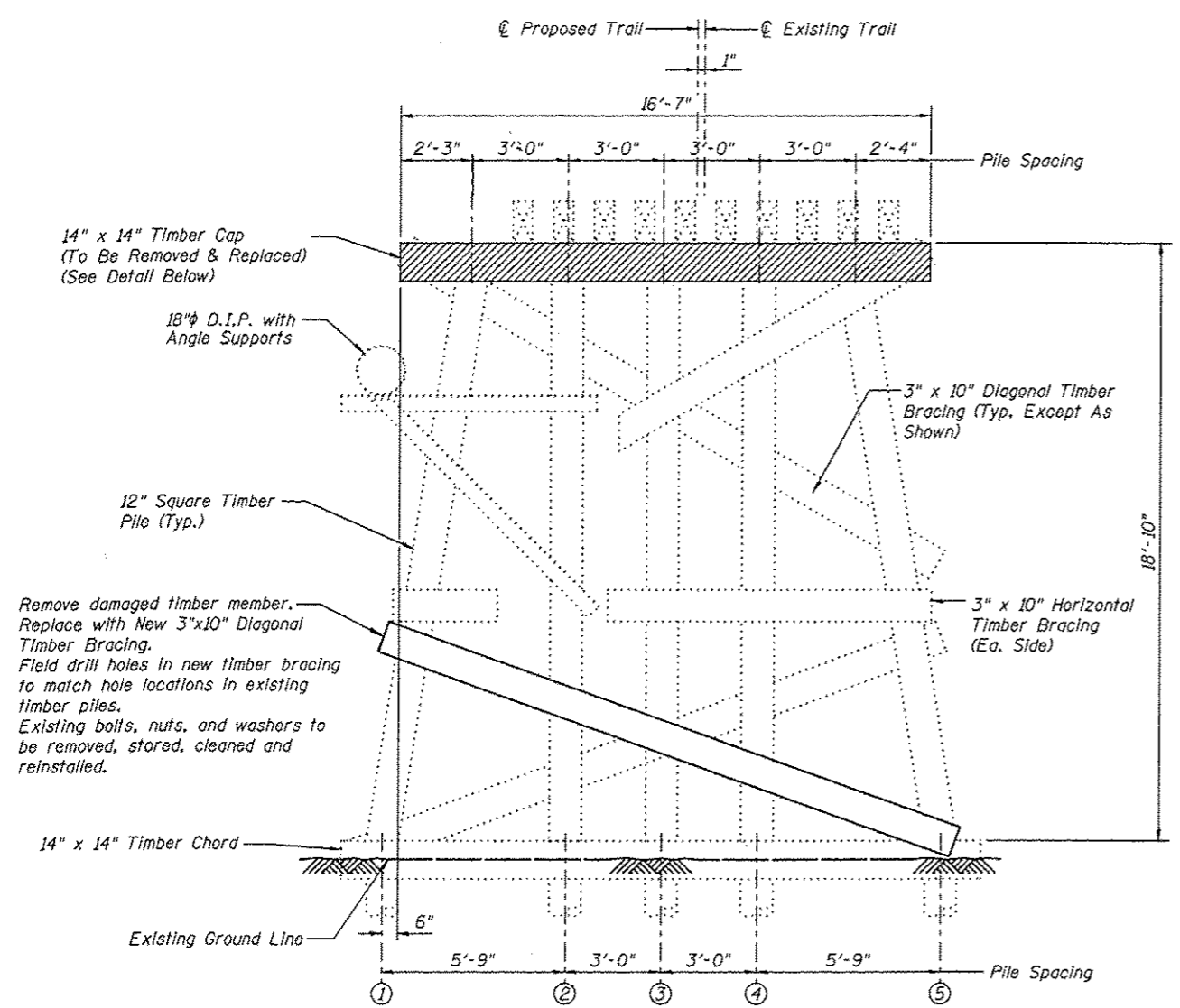
For Estimated Quantities, see Special Provisions.

Note:
 All dimensions are approximate. Bolts, nuts and washers for the Timber Beam Repair shall be hot-dipped galvanized.
 * Cross Hatched area indicates removal of damaged 2'-6" length of Existing Timber Chord. Replace the removed section with new 14"x14"x2'-6" Timber Chord.
 ** Replacement of removed section with new 14"x14"x2'-6" Timber Chord.
 *** The 3"x10" Existing Diagonal Timber Bracing shall be removed and reinstalled to clear Timber Beam Repair. Existing bolts, nuts, and washers to be removed, cleaned and reinstalled. Cost of removing and relocating the existing timber bracing shall be included with Timber Beam Repair.

PIER 3 DETAILS

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, S.E. Box 1301 Olympia, WA 98513-1301 Phone: (360) 337-1100 Fax: (360) 337-1100		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 SHEET		155	
DWN. BY: EER DATE: 10/18/12		CHK'D: WHH DATE: 10/18/12	
DGN NAME:		JOB NO. E064403 DGN. NO. OF 810 SHEETS	

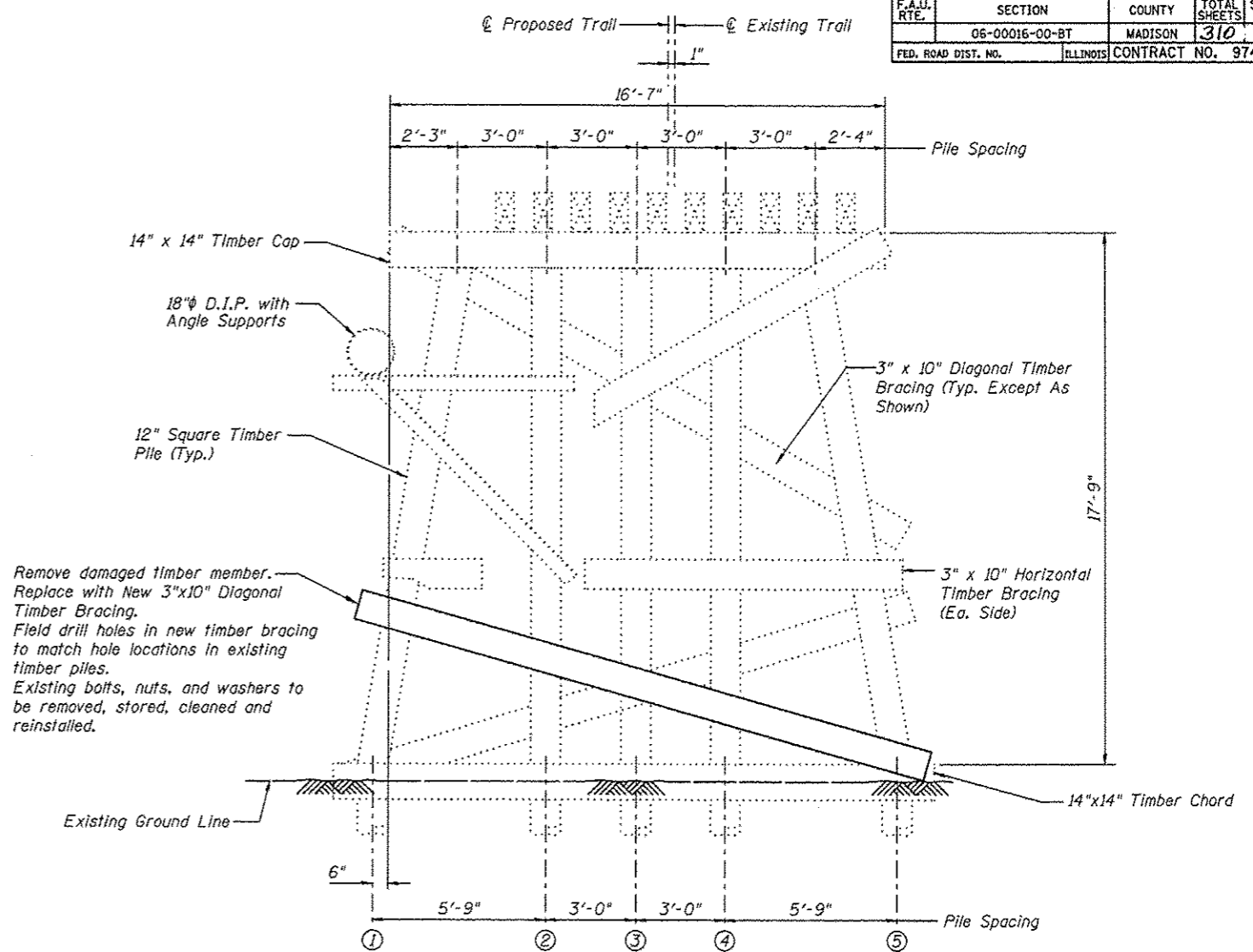
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PIER 4
(Looking East)

PIER 4 BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	360

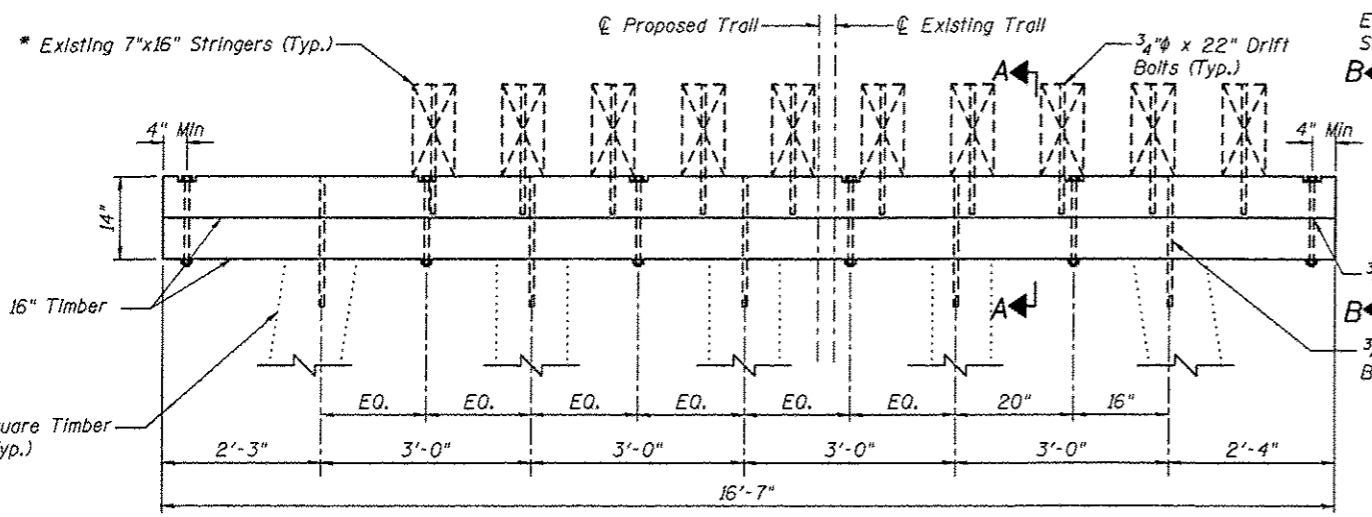


PIER 5
(Looking East)

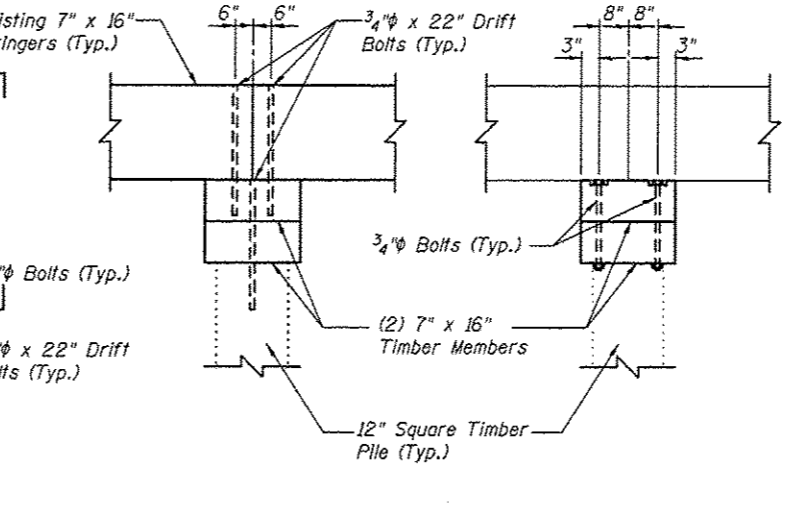
PIER 5 BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	50

Legend
 Removal



PIER CAP REPLACEMENT



SECTION A-A **SECTION B-B**

Notes:
 All dimensions are approximate.
 All new timber members shown shall be included in the pay item Treated Timber.
 * The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber.

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS	
				DSN. BY: DB	DATE: 10/18/12
				DWN. BY: EER	DATE: 10/18/12
				CHR'D: WWH	DATE: 10/18/12
DGN NAME:				JOB NO. E064403	DGN. NO.

Juneau Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 2100 State Street, P.O. Box 1325
 Granite City, Illinois 62040
 Phone: (618) 877-1400
 Fax: (618) 877-0541

GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH
 MADISON COUNTY
 STATION 108+17.70
 STRUCTURE NO. 1

SCALE: NOT TO SCALE, FOLLOW DIMENSIONS
 SHEET 156
 OF 310 SHEETS

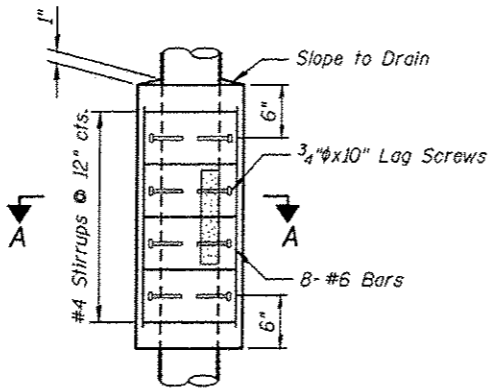
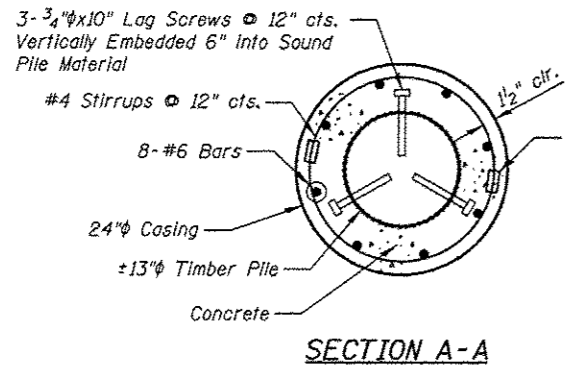
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	157
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

**PIER 6
BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Encasement	Cu Yd	0.5
Treated Timber	F.B.M.	310

For Concrete Encasement Estimated Quantities, see Special Provisions.



Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS

14" x 14" Timber Cap
(To Be Removed & Replaced)

14" x 14" Timber Cap
18" D.I.P. with
Angle Supports

13" Timber Pile (Typ.)

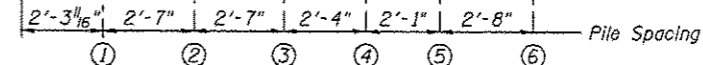
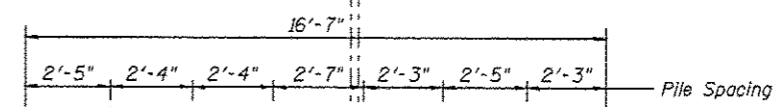
3" x 10" Diagonal
Timber Bracing (Typ.,
except as shown)

3" x 10" Horizontal
Timber Bracing
(Ea. Side)

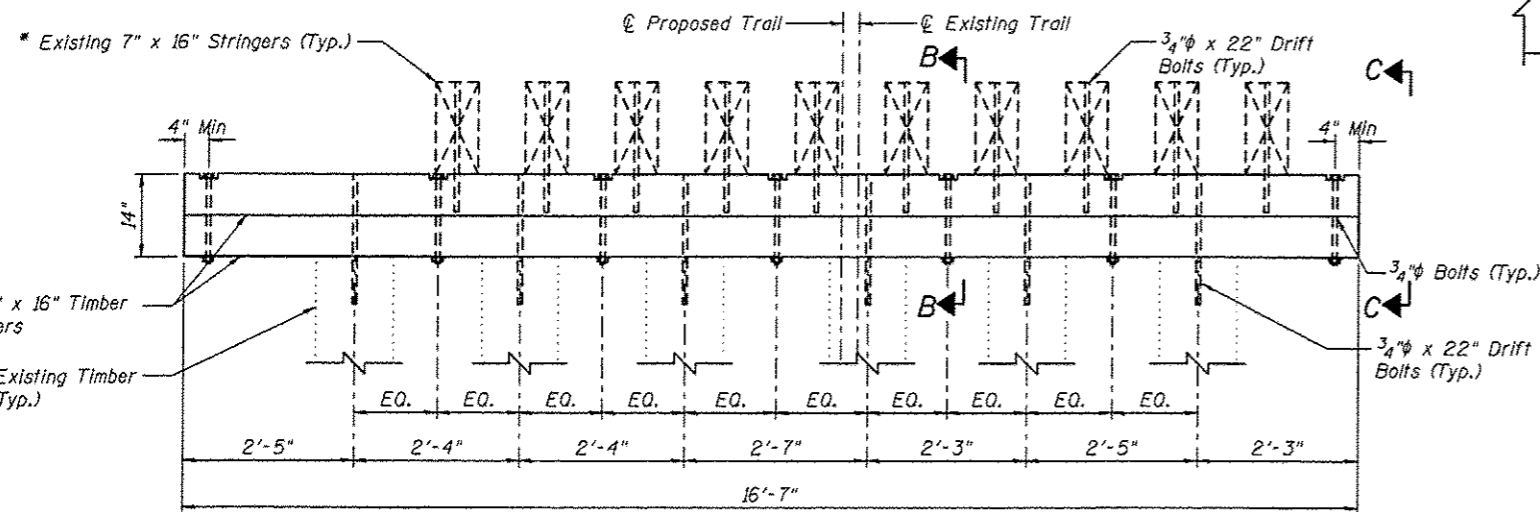
Encasement (Typ.)

Existing Ground Line

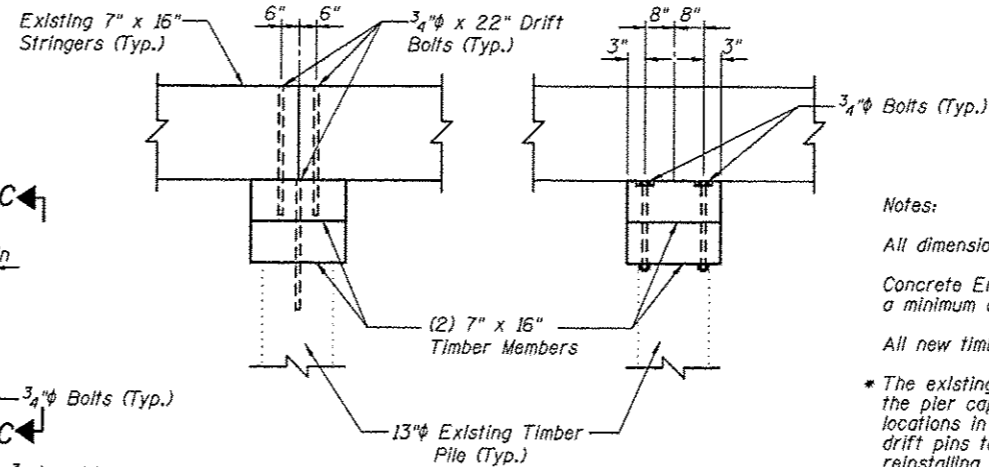
Proposed Trail Existing Trail



**PIER 6
(Looking East)**

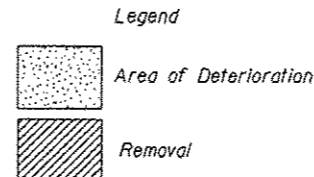


PIER CAP REPLACEMENT



SECTION B-B

SECTION C-C



Notes:

All dimensions are approximate.

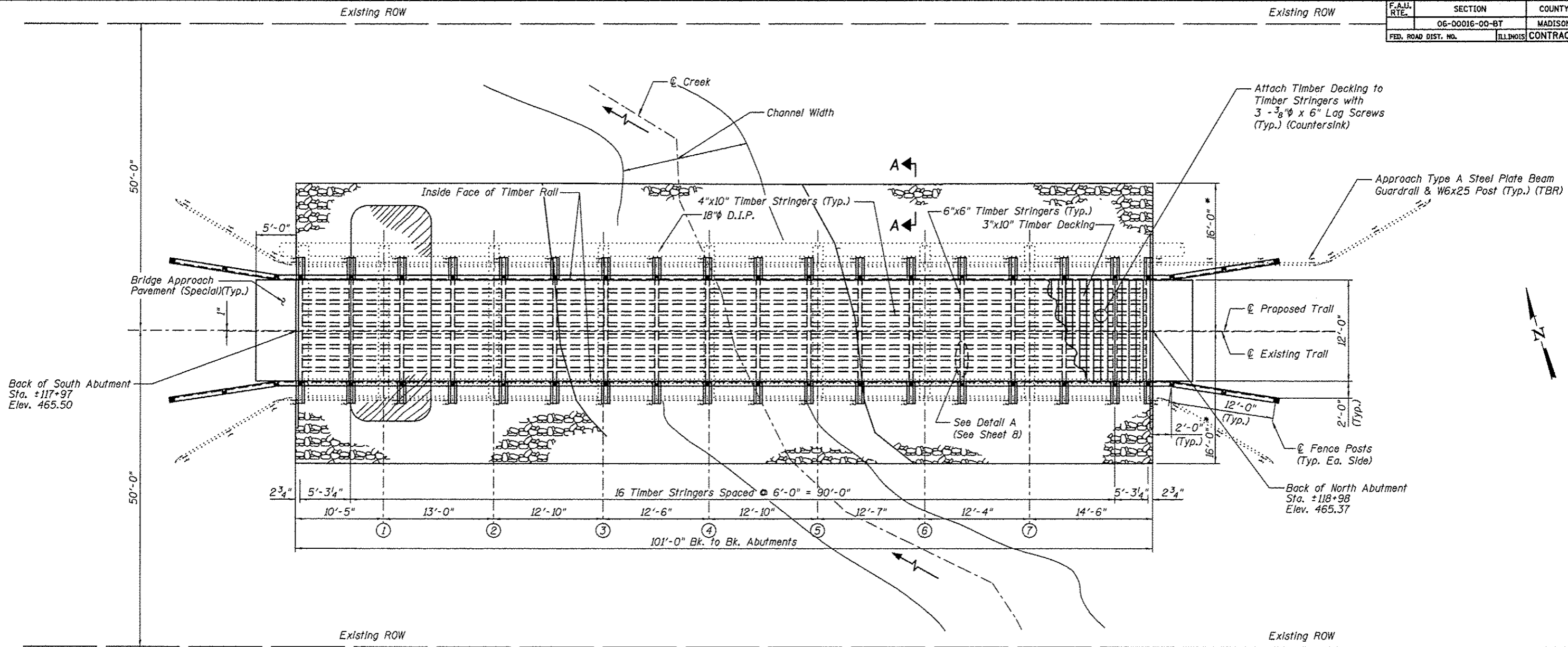
Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

All new timber members shown shall be included in the pay item Treated Timber.

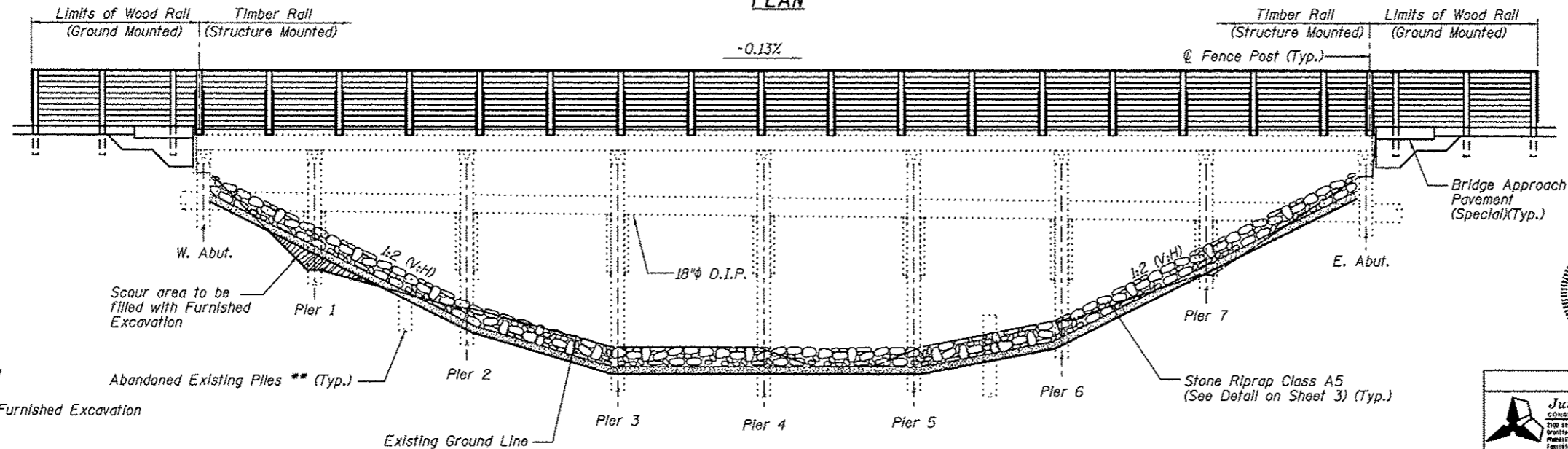
* The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber.

PIER 6 DETAILS			
		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 108+17.70 STRUCTURE NO. 1	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 SHEET		157	
DWN. BY: EER DATE: 10/18/12		CHRTD: WWH DATE: 10/18/12	
DGN NAME:		JOB NO. E064403 DGN. NO. OF 510 SHEETS	

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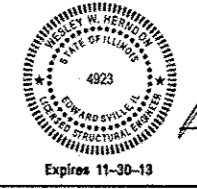
PLAN



ELEVATION
(Looking North)

Notes:
 All dimensions are approximate.
 For General Notes and Total Bill of Material, see Sheet No. 2
 For Cross Sections and Approach Slab Detail, see Sheet No. 3
 For Section A-A and Stone Riprap Detail, see Sheet No. 3
 All new timber members shown shall be included in the pay item Treated Timber.

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon
 WESLEY W. HERNDON, S.E.
 DATE: 1/2/13

Legend

- TBR - To Be Removed
- Void, to be filled with Furnished Excavation

* Limits of Stone Riprap
 ** Abandoned Existing Piles shall be removed to at least 1 foot below the proposed ground surface.

		PLAN & ELEVATION GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 SHEET: 159		DWN. BY: EER DATE: 10/18/12	
CHK'D: WWH DATE: 10/18/12		DGN. NAME:	
JOB NO. E064403		DGN. NO.	

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	160
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated Timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots, warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	58		58
Channel Excavation	Cu. Yd.		160	160
Furnished Excavation	Cu. Yd.		15	15
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A5	Sq. Yd.		395	395
Filter Fabric	Sq. Yd.		395	395
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Concrete Encasement	Cu. Yd.		10.0	10.0
Treated Timber	F.B.M.	10150	935	11085
Stainless Steel Bands	Foot		74	74

* Concrete Encasement quantity has been increased to account for hidden deficiencies

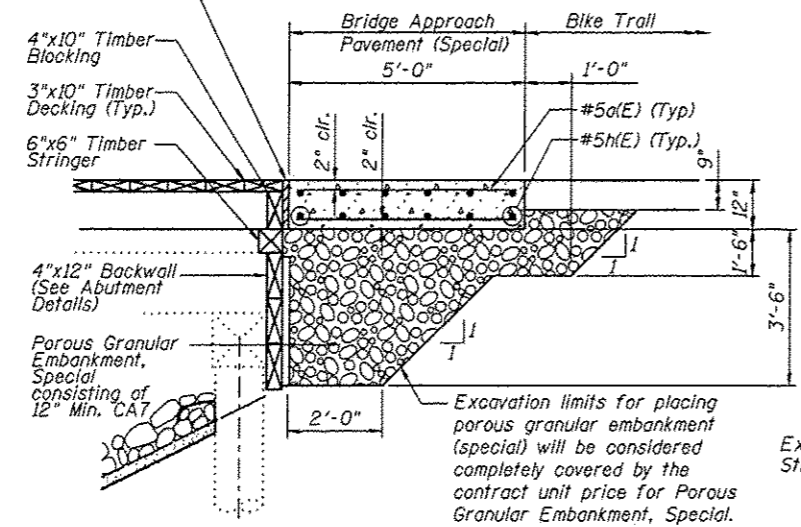
GENERAL NOTES

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2106 State Street, P.O. Box 1321
Carle Place, Illinois 62901
Phone: 618-952-1100
Fax: 618-952-5511

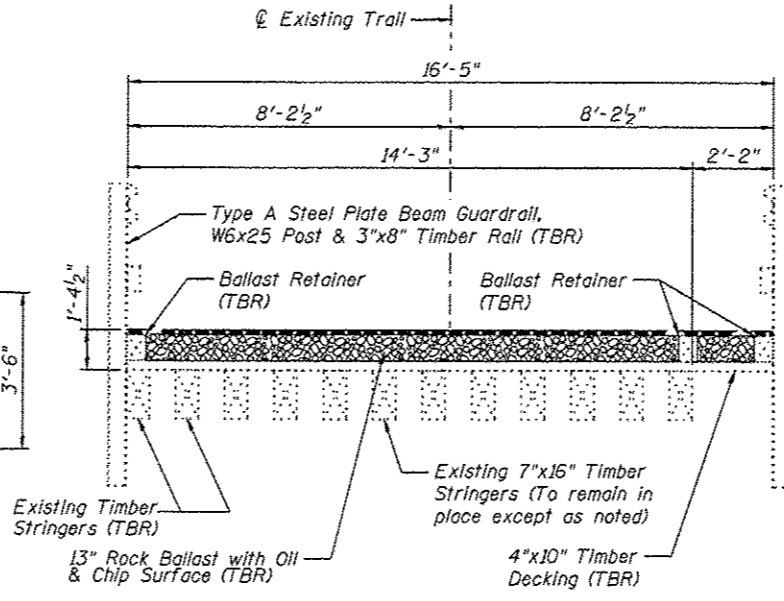
GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 118+47.70
STRUCTURE NO. 2

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS	
				DSN. BY: DB	DATE: 10/18/12
				DWN. BY: EER	DATE: 10/18/12
				CHK'D: WWH	DATE: 10/18/12
DGN NAME:				JOB NO. E064403	DGN. NO. DP 810 BHTS

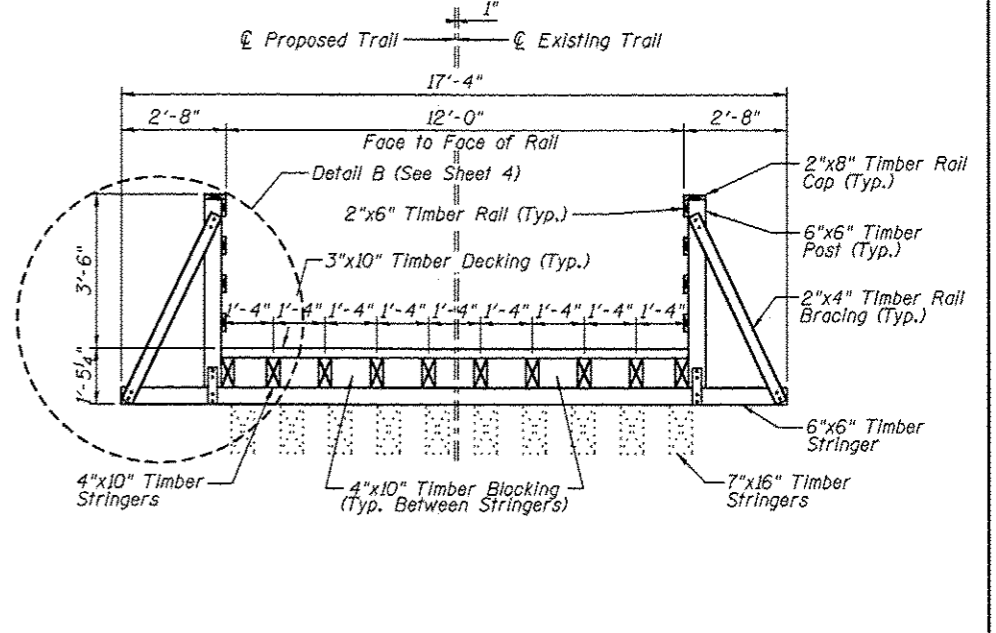
1" Preformed Joint Filler in accordance with Section 1051 of the Standard Specifications. Cost included with Bridge Approach Pavement (Special)



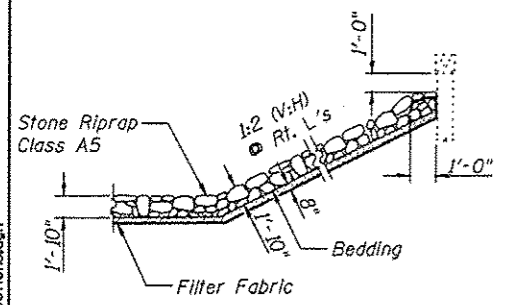
BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



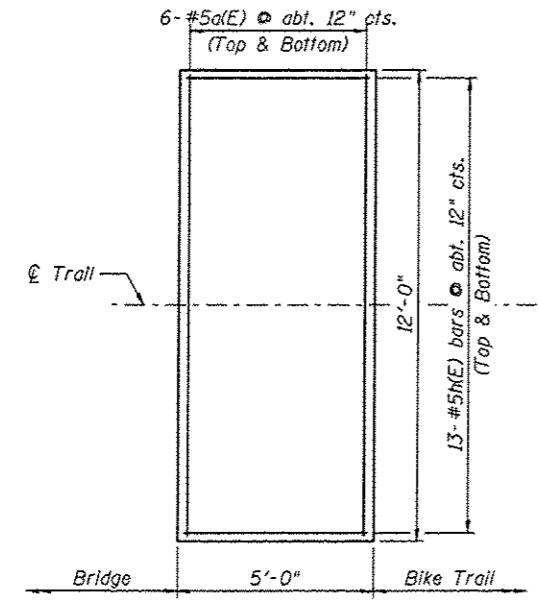
EXISTING CROSS SECTION (Looking East)



PROPOSED CROSS SECTION (Looking East)

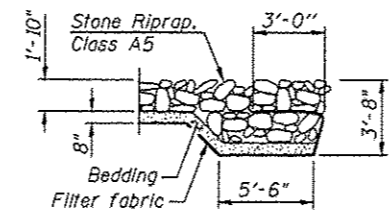


STONE RIPRAP DETAIL



BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN

Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A

BRIDGE APPROACH BILL OF MATERIAL

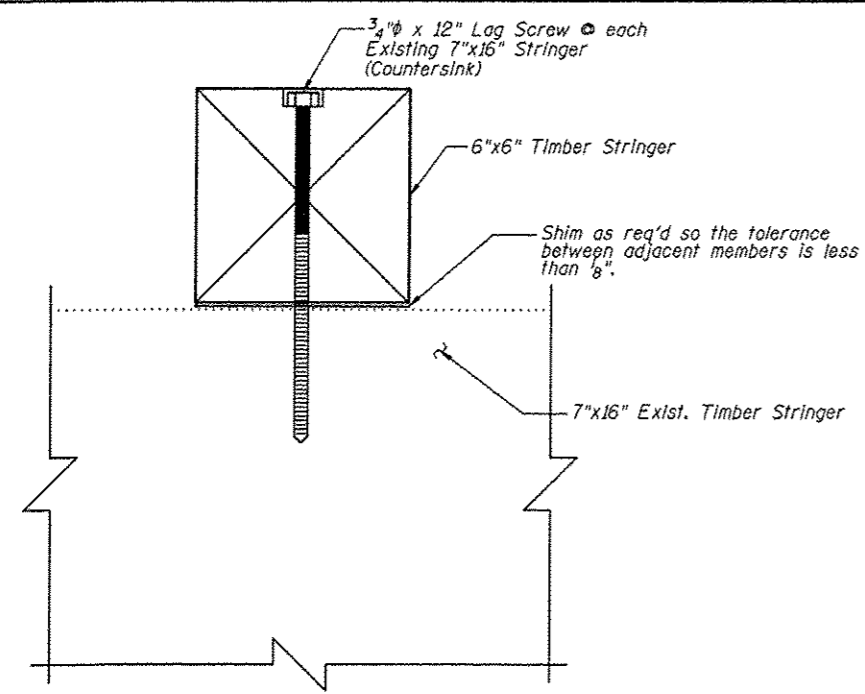
Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

Note:
 All dimensions are approximate.
 For Treated Timber quantity, see Sheet No. 4
 All new timber members shown shall be included in the pay item Treated Timber.
 All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3"x8" Timber Rail and 7"x16" Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

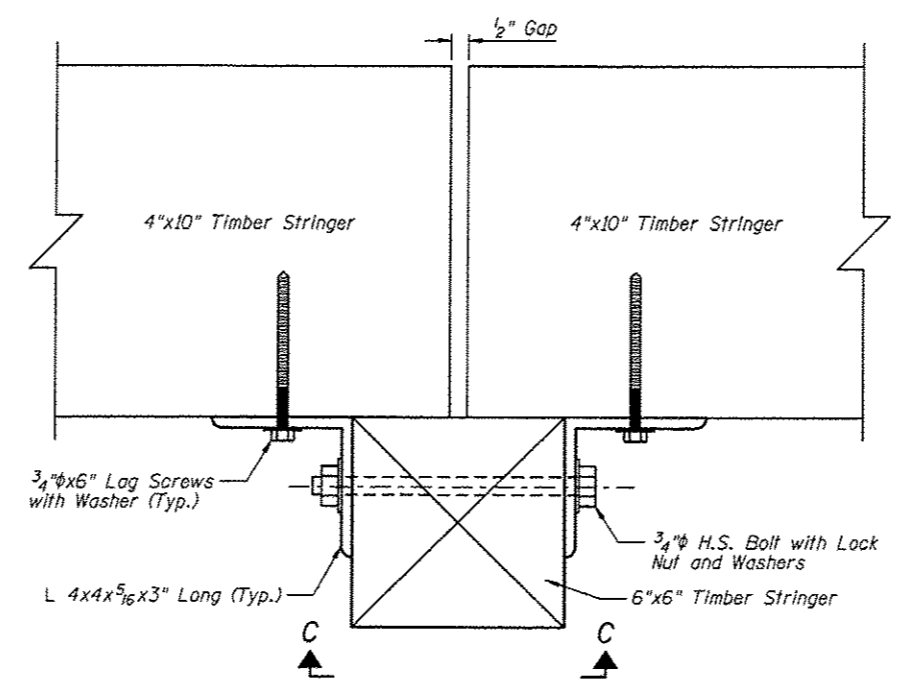
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1200 Granite City, Illinois 62040 Phone: (618) 515-1100 Fax: (618) 515-1100		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2	
REVISIONS NO. DATE BY REMARKS		CROSS SECTIONS SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY:	OB	DATE:	10/18/12
DWN. BY:	EER	DATE:	10/18/12
CHK'D:	WWH	DATE:	10/18/12
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 810 SHEETS

Printed 10/04/12 AM 12/19/2012 W:\STRUCTURE\Drawings\Structure *02\Proposed Structure 07-2012\03\061 Cross Sections.dgn

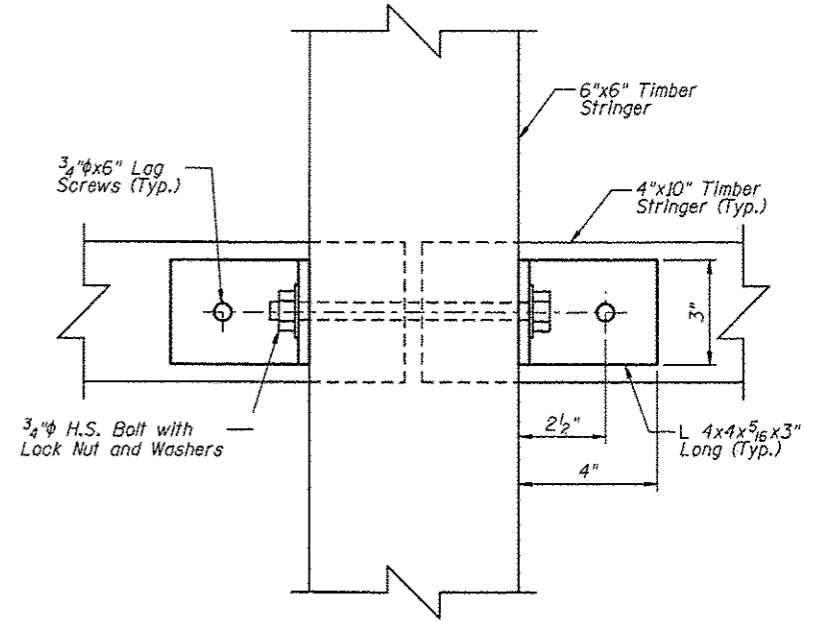
F.A.I.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	162
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 97433			



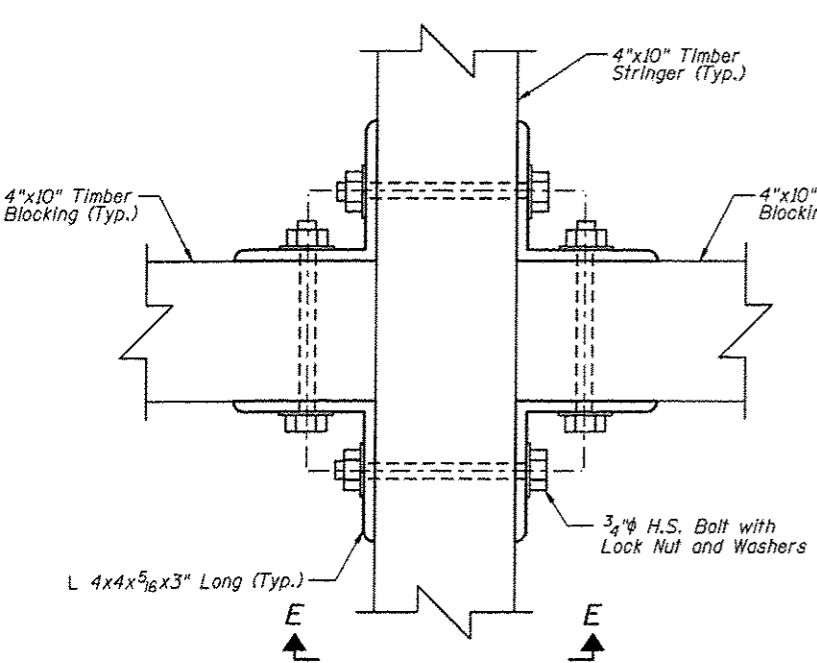
SECTION A-A



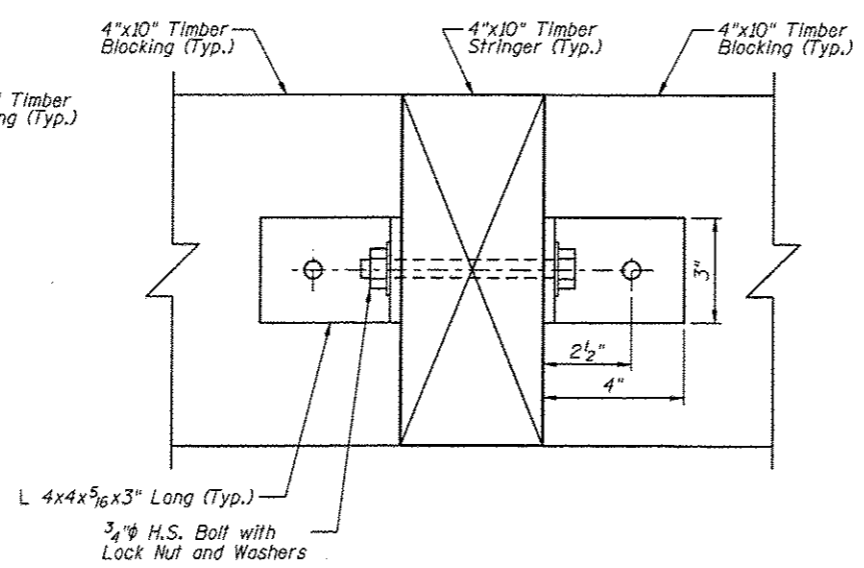
SECTION B-B
(Section G-G Similar)



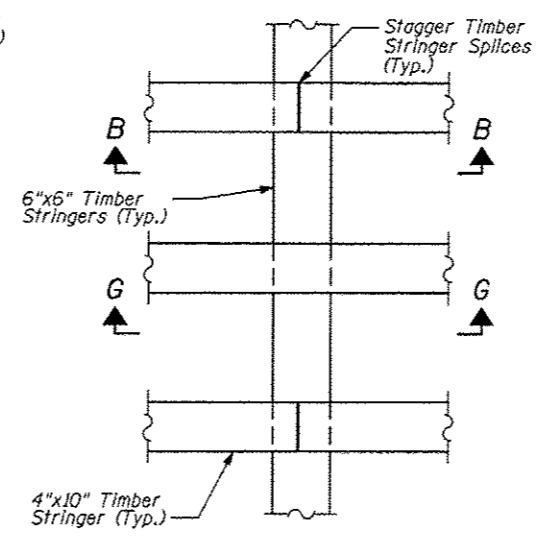
SECTION C-C



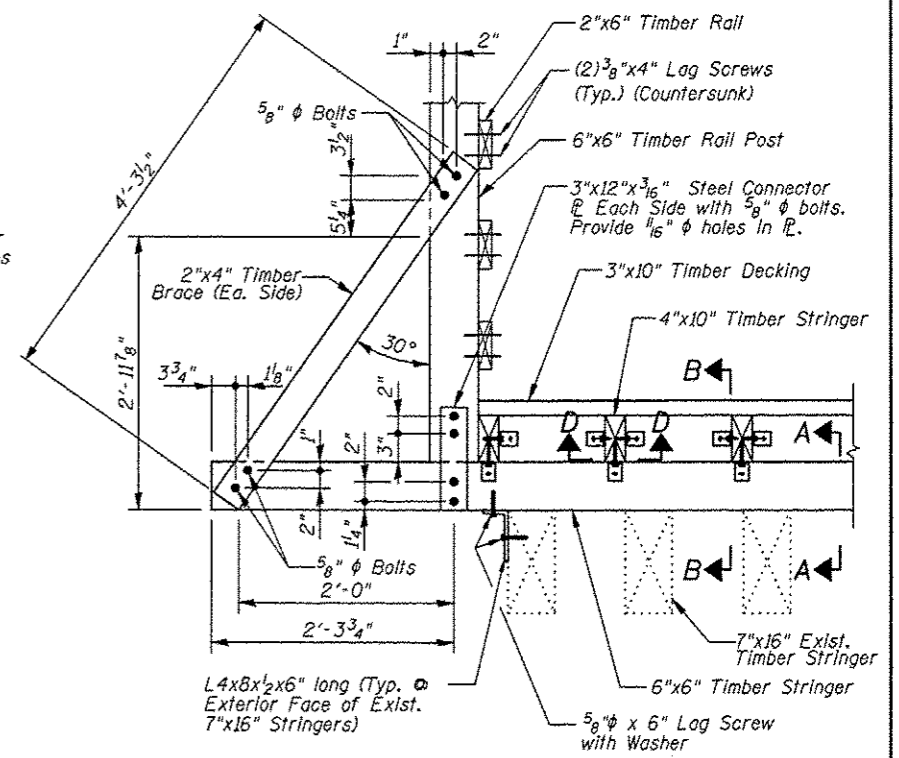
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

SUPERSTRUCTURE
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	10150

Note:

All new timber members shown shall be included in the pay item Treated Timber.

TYPICAL CONNECTION DETAILS

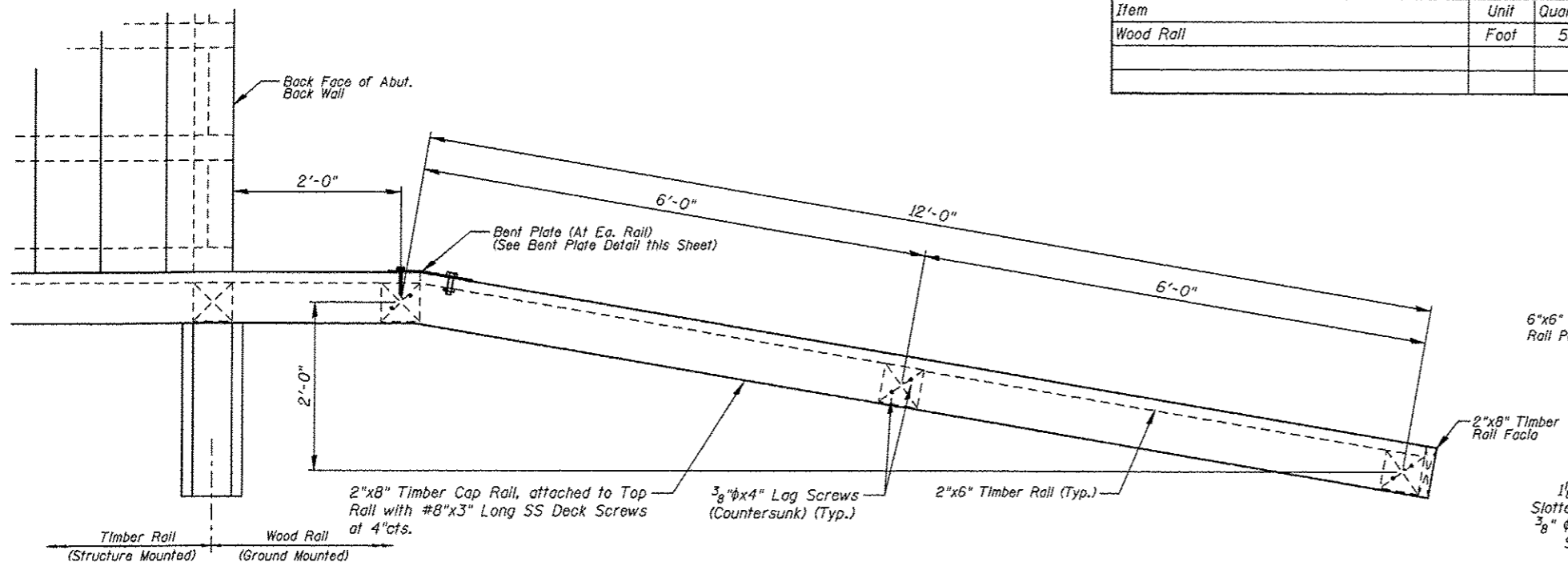
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1251 Oneida, WI 54981-0125 Phone: (920) 851-1100 Fax: (920) 851-1101		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB	DATE: 10/18/12	SHEET	
DWN. BY: EER	DATE: 10/18/12	162	
CHK'D: WWH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 310 SHEETS

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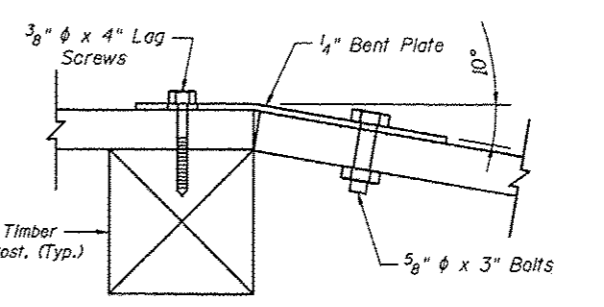
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	510	163
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

WOOD RAIL BILL OF MATERIAL

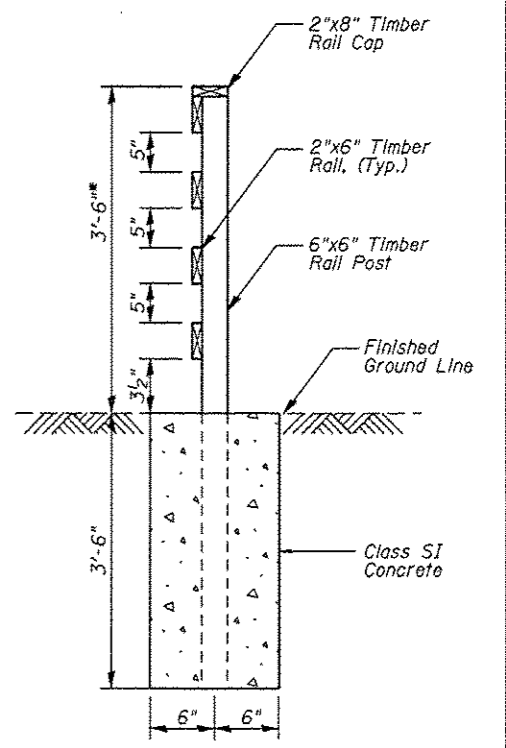
Item	Unit	Quantity
Wood Rail	Foot	58



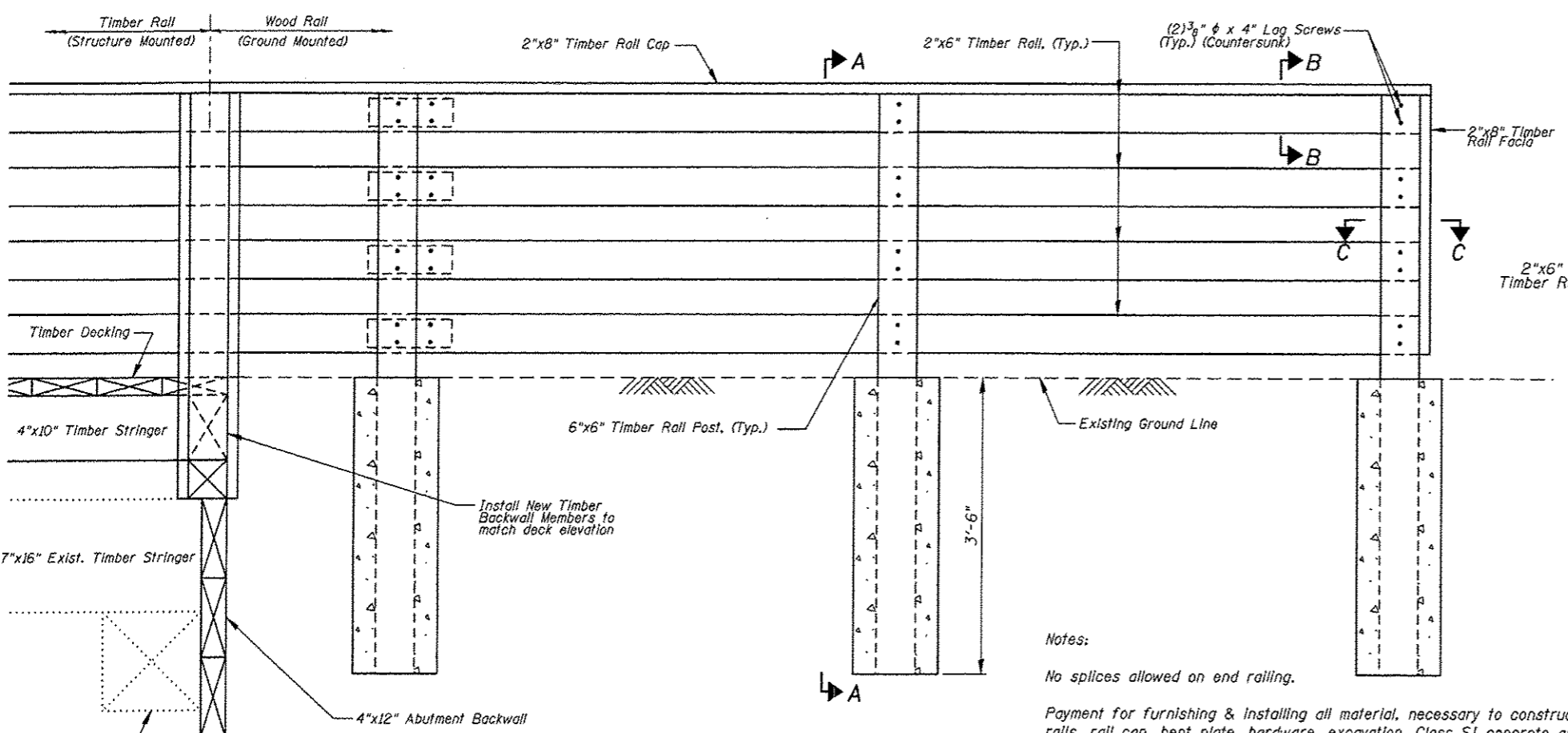
PLAN



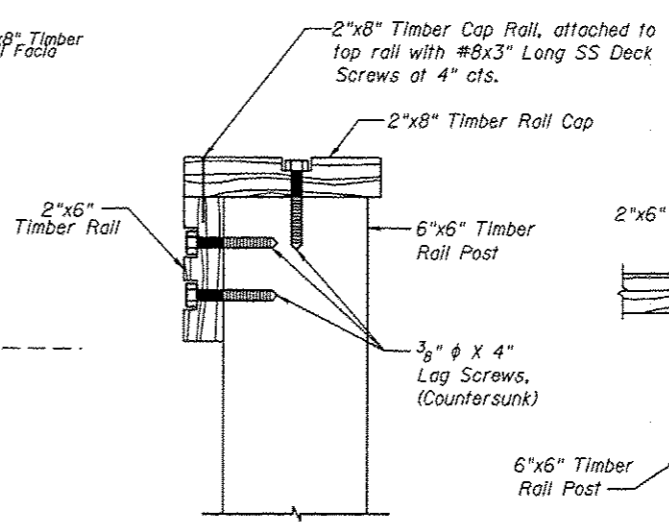
BENT PLATE



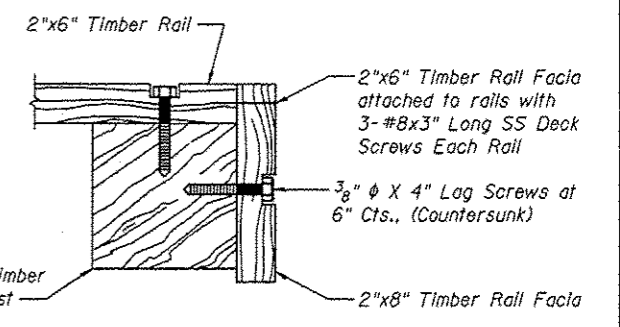
SECTION A-A



ELEVATION



SECTION B-B



SECTION C-C

Notes:

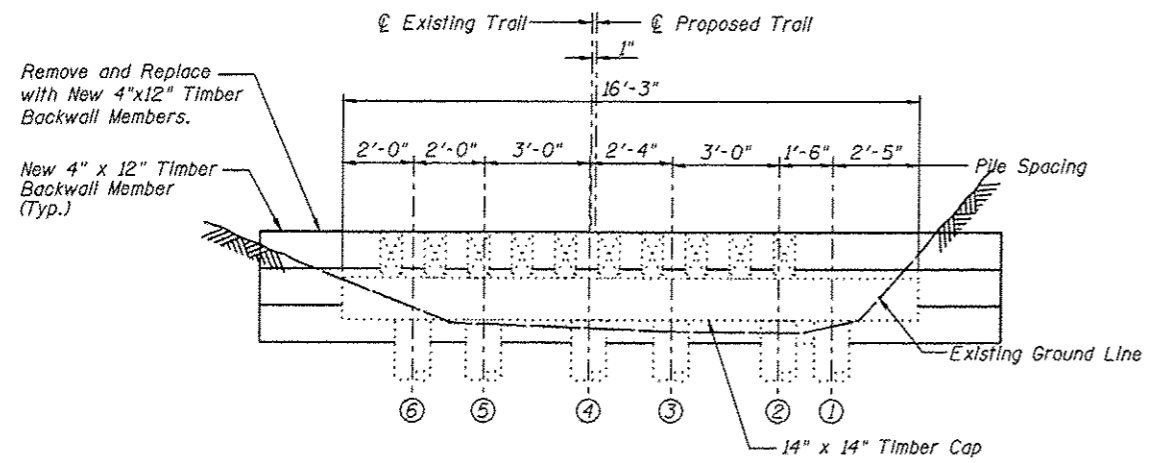
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

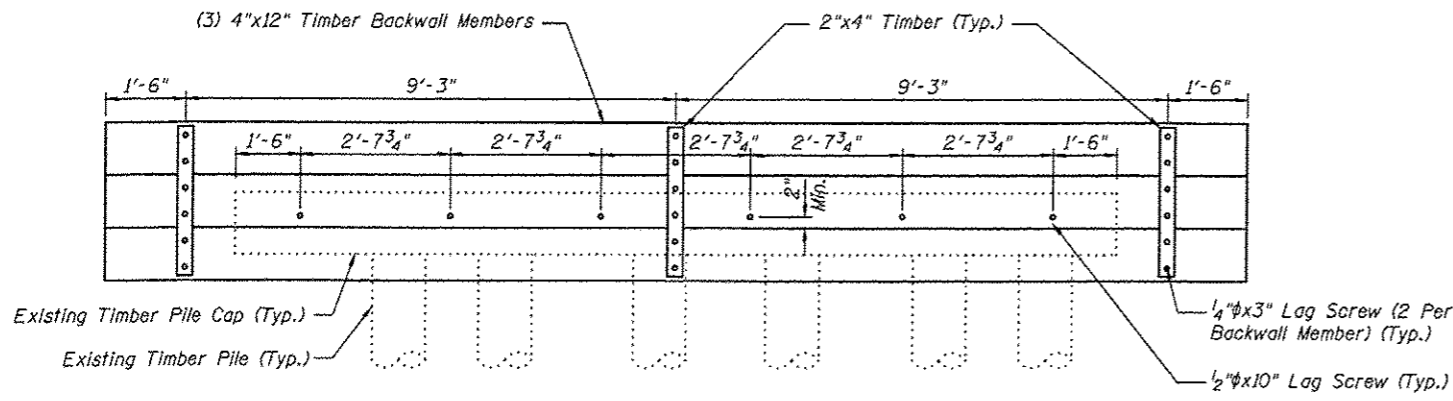
* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

WOOD RAIL DETAILS											
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Glen Carbon, IL 61024 Phone: (618) 951-1100 Fax: (618) 951-9911</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>DGN. BY: DB</p>		<p>DATE: 10/18/12</p>									
<p>DWN. BY: EER</p>		<p>DATE: 10/18/12</p>									
<p>CHE'D: WWH</p>		<p>DATE: 10/18/12</p>									
<p>DGN NAME:</p>		<p>JOB NO. E064403 DGN. NO. 07 810 SH15</p>									

10/04/18 AM 12/19/2012 W:\STRUCTURE\064403 INET Herktopp, Traid\Drawings\Structure_02\Proposed Structure_107-2012\05\053 Fence Details.dgn



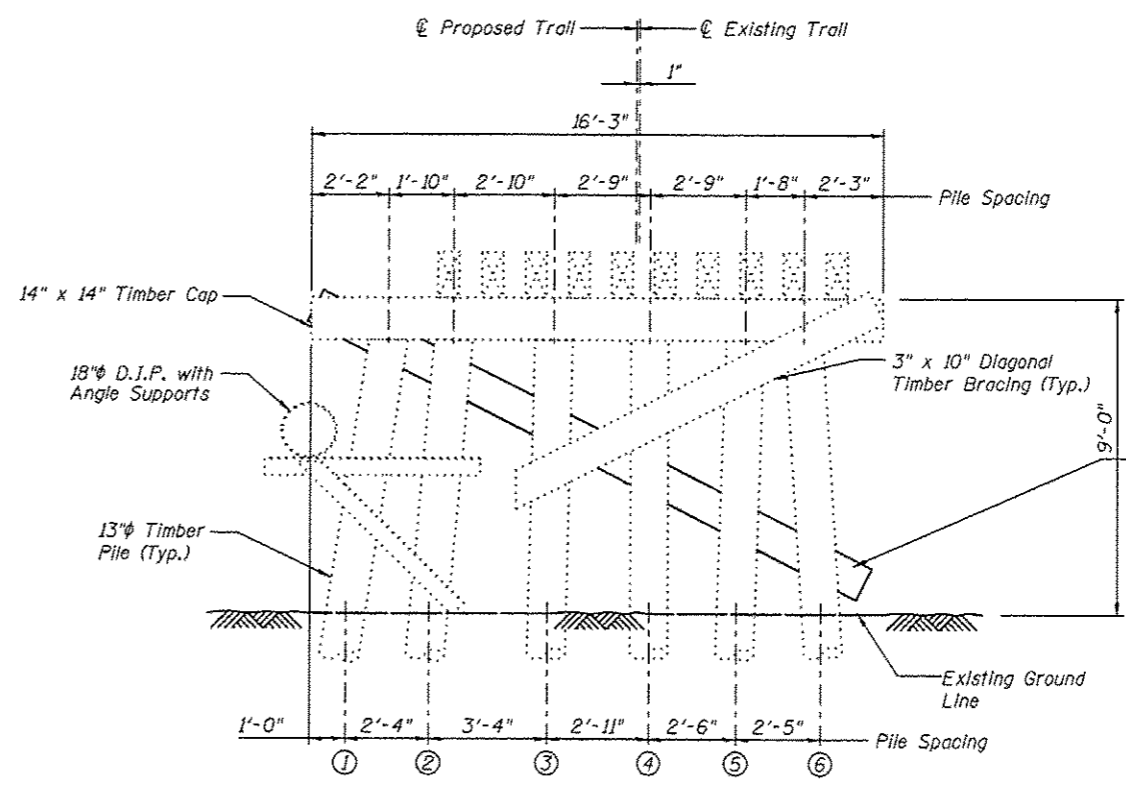
WEST ABUTMENT
(Looking West)



WEST ABUTMENT
(Looking East)

**WEST ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	264



PIER 1
(Looking East)

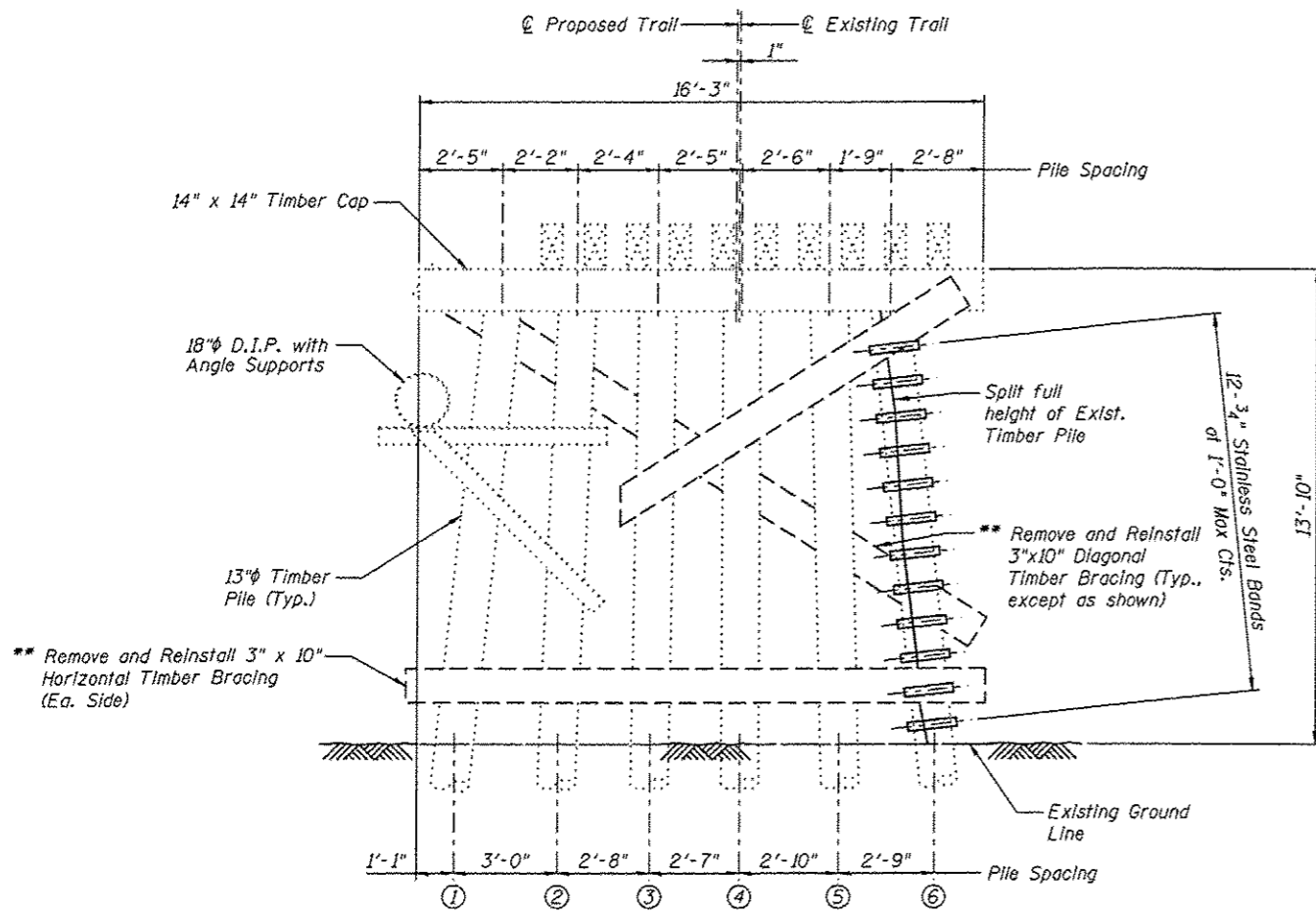
**PIER 1
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	50

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 Stone Street, P.O. Box 1205 Ogden, UT 84246 Phone: (435) 744-1000 Fax: (435) 744-0911</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>DGN NAME:</p>		<p>DSN. BY: DB DATE: 10/18/12 SHEET</p> <p>DWN. BY: EER DATE: 10/18/12 164</p> <p>CHK'D: WWH DATE: 10/18/12</p>									
<p>JOB NO. E064403</p>		<p>DGN. NO. OF 810 SHEETS</p>									

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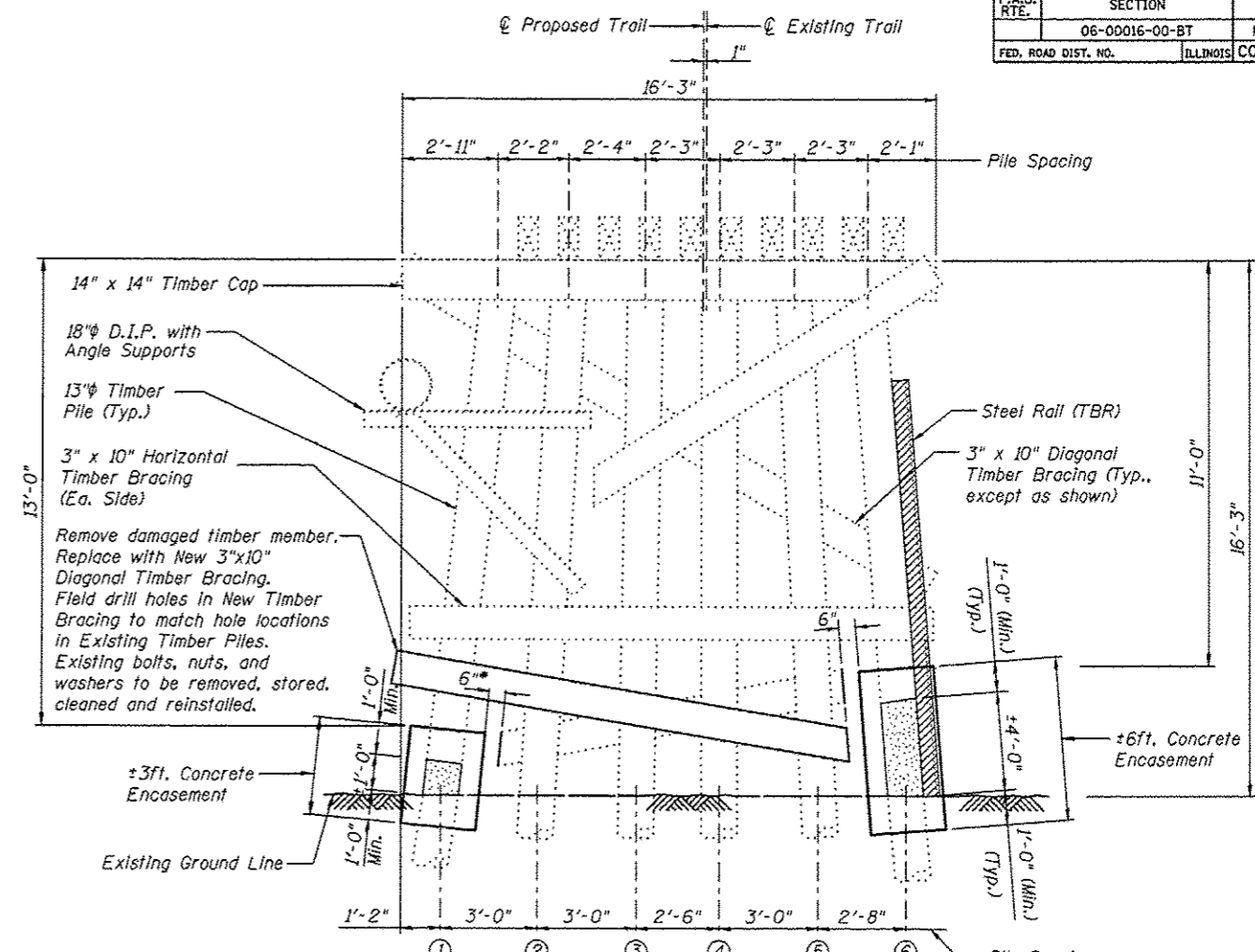


PIER 2
(Looking East)

PIER 2
BILL OF MATERIAL

Item	Unit	Quantity
Stainless Steel Bands	LIn Ft	41

For estimated quantities, see Special Provisions.



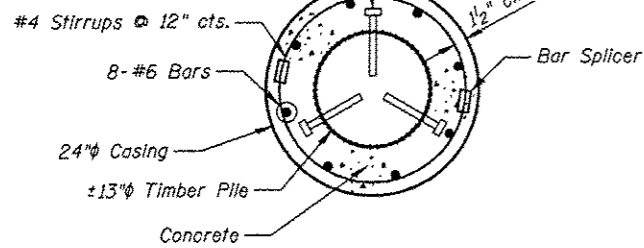
PIER 3
(Looking East)

PIER 3
BILL OF MATERIAL

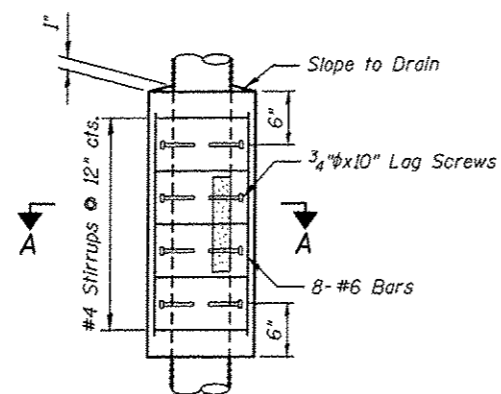
Item	Unit	Quantity
Concrete Encasement	Cu Yd	1.3
Treated Timber	F.B.M.	35

For estimated quantities, see Special Provisions.

3-3/4" x 10" Lag Screws @ 12" cts. Vertically Embedded 6" into Sound Pile Material



SECTION A-A



Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, partial removal of bracing, removal of steel rail, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS

Notes:

All dimensions are approximate.

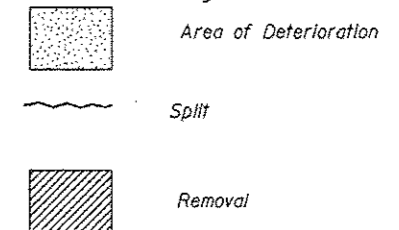
The stainless steel bands shall be stainless steel with a minimum width of 3/4" and a minimum thickness of 0.030" and shall be installed per the manufacturer's recommendation. Product data shall be submitted to the Engineer for approval prior to installation.

Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

* Existing timber bracing that interferes with the Concrete Encasement shall be removed a max distance of 6" beyond the face of the Concrete Encasement. Cost included with Concrete Encasement.

** The existing timber bracing shall be reinstalled after the installation of the Stainless Steel Bands. Existing bolts, nuts, and washers to be removed, cleaned and reinstalled. Cost of removing and relocating the existing timber bracing shall be included with Stainless Steel Bands.

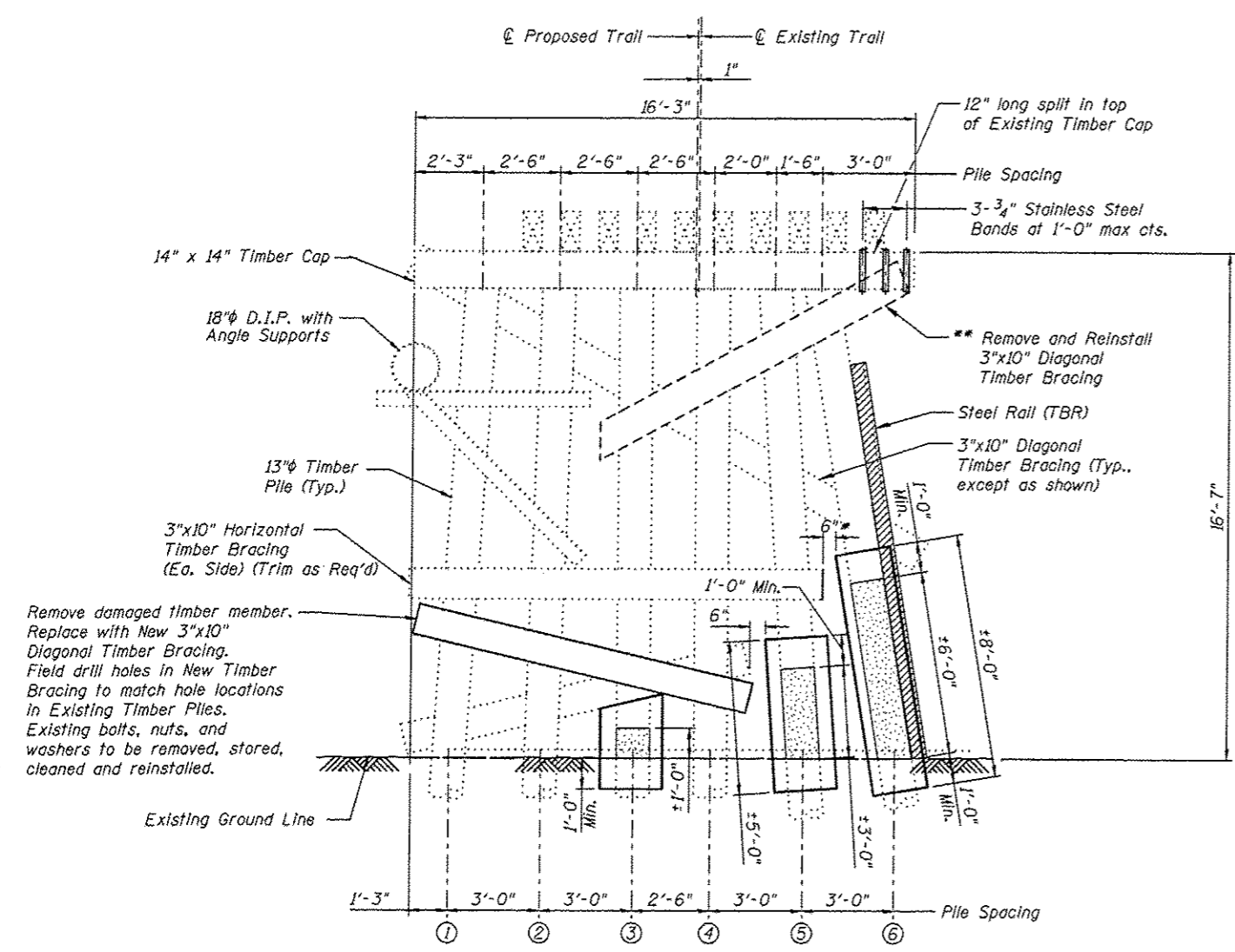
Legend



PIER 2 & PIER 3 DETAILS

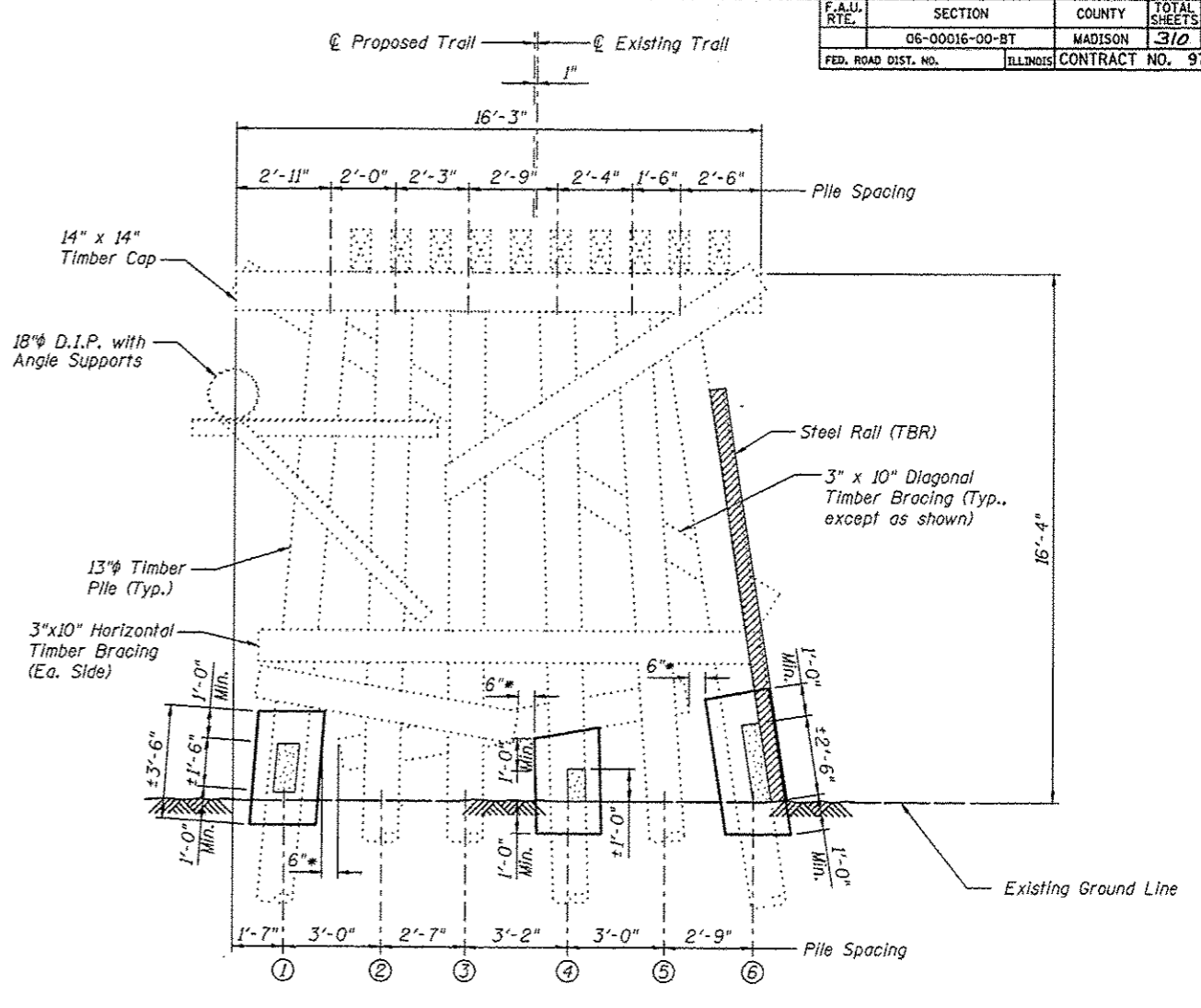
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Juneau, Alaska 99801 Phone: (907) 586-1200 Fax: (907) 586-1241</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>DGN NAME:</p>		<p>DSN. BY: DB</p>	<p>DATE: 10/18/12</p>								
<p>JOB NO. E064403</p>		<p>DWN. BY: EER</p>	<p>DATE: 10/18/12</p>								
<p>DGN. NO.</p>		<p>CHK'D: WHH</p>	<p>DATE: 10/18/12</p>								
<p>OF 810 SHEETS</p>		<p>SHEET 165</p>									

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	166
FED. ROAD DIST. NO.	ILLINOIS		CONTRACT NO. 97433	



PIER 4
(Looking East)

Remove damaged timber member. Replace with New 3"x10" Diagonal Timber Bracing. Field drill holes in New Timber Bracing to match hole locations in Existing Timber Piles. Existing bolts, nuts, and washers to be removed, stored, cleaned and reinstalled.



PIER 5
(Looking East)

PIER 4
BILL OF MATERIAL

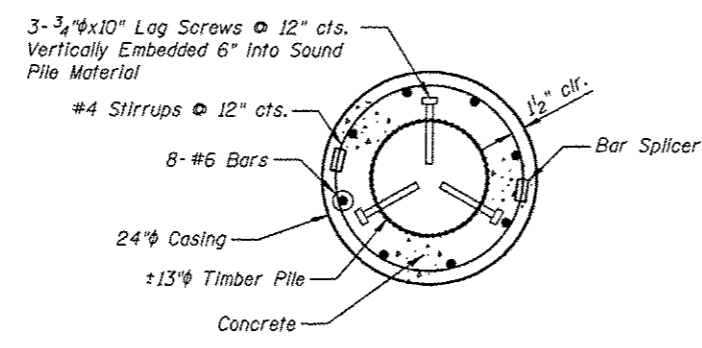
Item	Unit	Quantity
Treated Timber	F.B.M.	30
Concrete Encasement	Cu Yd	1.9
Stainless Steel Bands	Lin Ft	14

For estimated quantities for Concrete Encasement, see Special Provisions.

PIER 5
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Encasement	Cu Yd	1.3

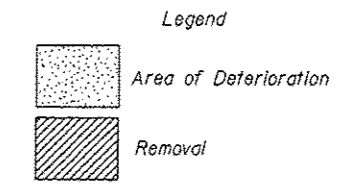
For estimated quantities, see Special Provisions.



SECTION A-A

Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, partial removal of bracing, removal of steel rail, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS



- Notes:**
- All dimensions are approximate.
 - The stainless steel bands shall be stainless steel with a minimum width of 3/4" and a minimum thickness of 0.030" and shall be installed per the manufacturer's recommendation. Product data shall be submitted to the Engineer for approval prior to installation.
 - Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".
 - All new timber members shown shall be included in the pay item Treated Timber.
 - * Existing timber bracing that interferes with the Concrete Encasement shall be removed a max distance of 6" beyond the face of the Concrete Encasement. Cost included with Concrete Encasement.
 - ** The existing timber bracing shall be reinstalled after the installation of the Stainless Steel Bands. Existing bolts, nuts, and washers to be removed, cleaned and reinstalled. Cost of removing and relocating the existing timber bracing shall be included with Stainless Steel Bands.

PIER 4 & PIER 5 DETAILS

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
1100 North Lincoln Street, P.O. Box 1325
Darien, IL 60155-1325
Phone: (708) 431-1000
Fax: (708) 431-0511

GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 110-47.70
STRUCTURE NO. 2

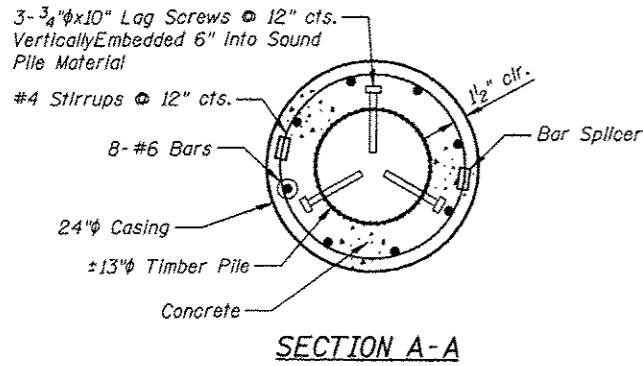
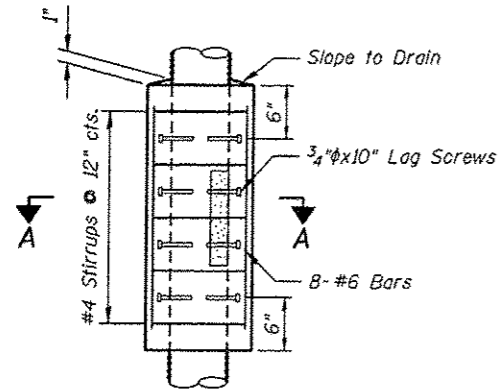
REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: NOT TO SCALE, FOLLOW DIMENSIONS

DSN. BY: DB	DATE: 10/18/12	SHEET 166
DWN. BY: EER	DATE: 10/18/12	
CHK'D: WWH	DATE: 10/18/12	

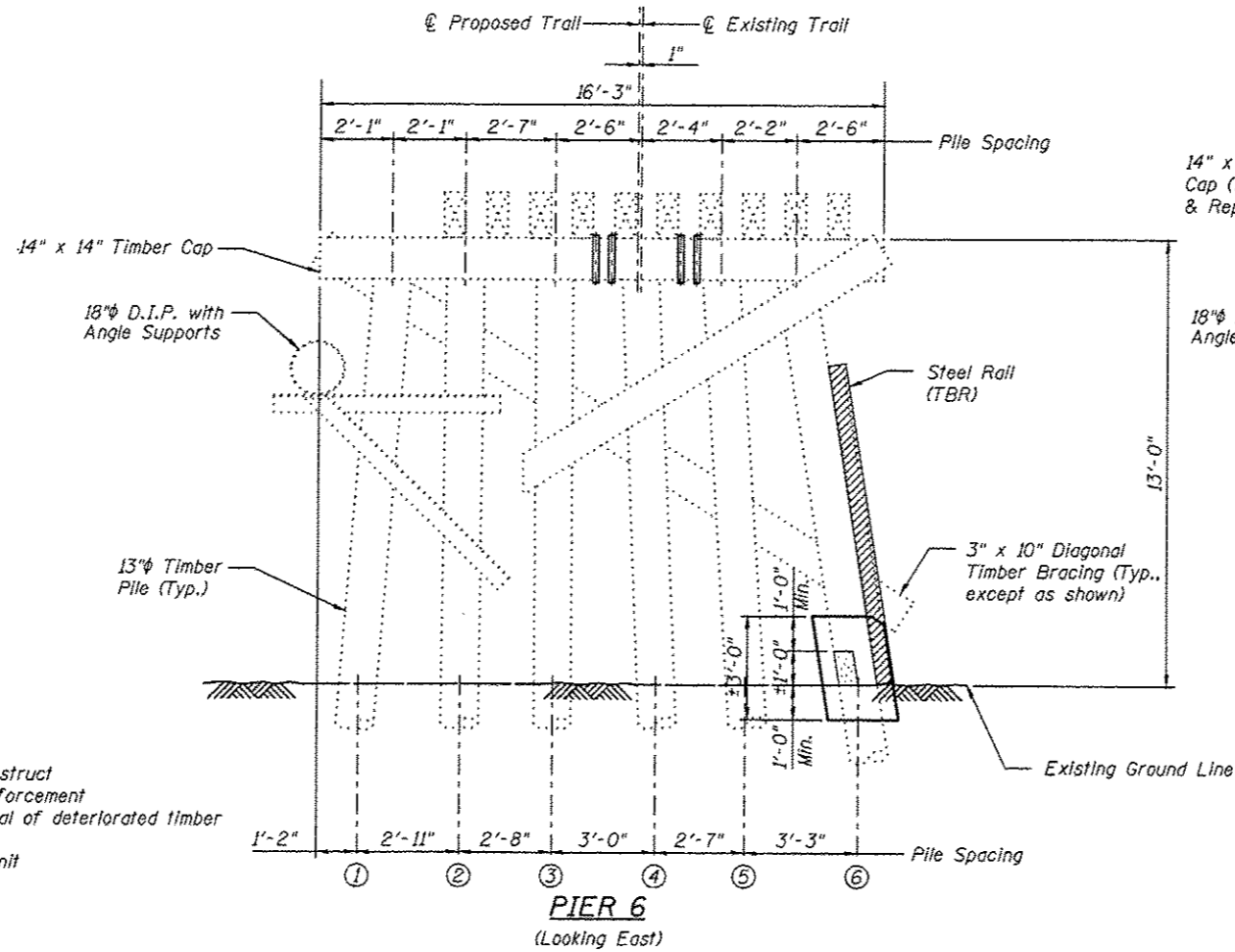
DGN NAME: JOB NO. E064403 DGN. NO. OF 810 BHTS

Printed 10/25/12 12/19/2012 M:\STRUCTURE\Drawings\Structure #02\Proposed Structure 101-2001\06016\PIER 4 & Pier 5.dgn



Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, partial removal of bracing, removal of steel rail, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS

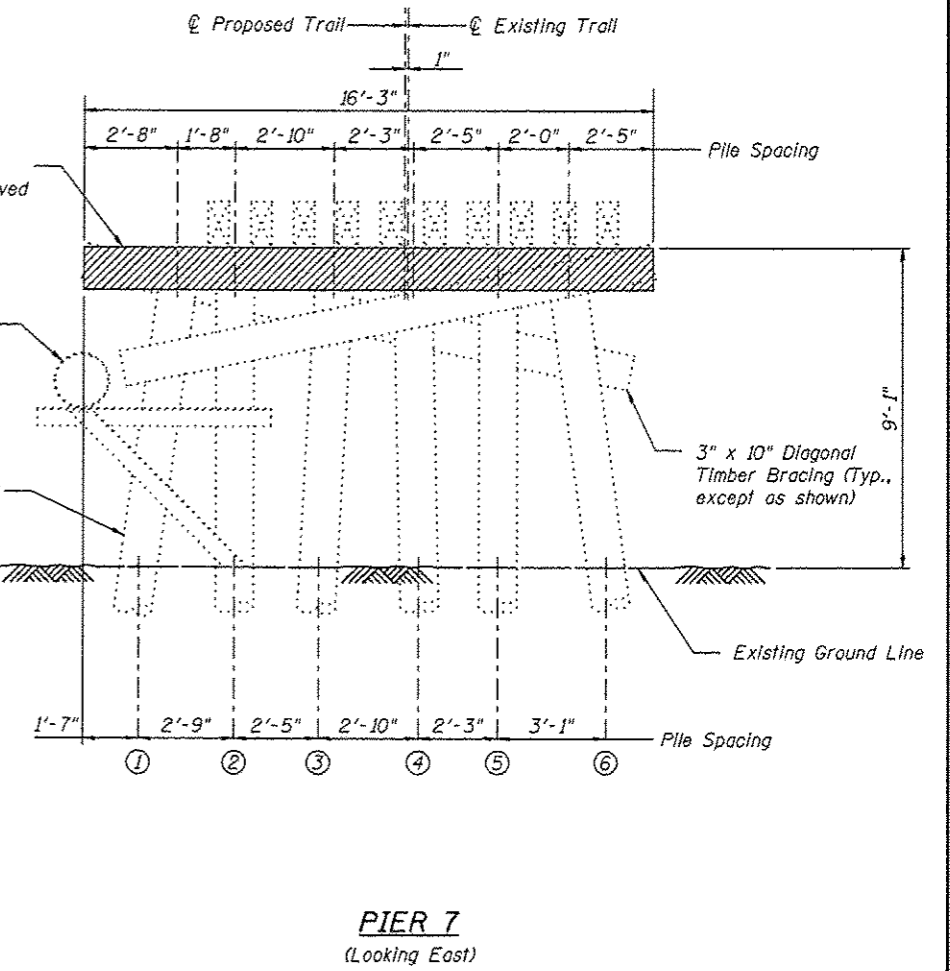
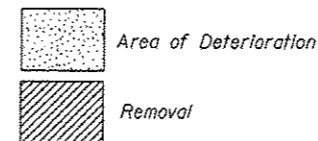


PIER 6 BILL OF MATERIAL

Item	Unit	Quantity
Stainless Steel Bands	L In Ft	19
Concrete Encasement	Cu Yd	0.4

For estimated quantities, see Special Provisions.

Legend



PIER 7 BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	304

Notes:

All dimensions are approximate.

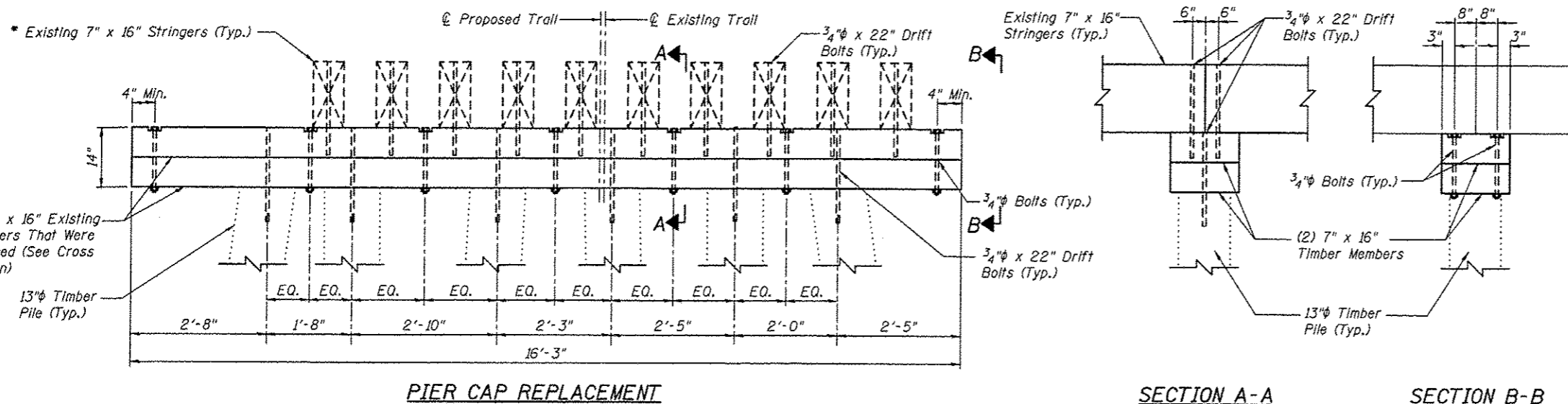
Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

All new timber members shown shall be included in the pay item Treated Timber.

The stainless steel bands shall be stainless steel with a minimum width of 3/4" and a minimum thickness of 0.030" and shall be installed per the manufacturer's recommendation. Product data shall be submitted to the Engineer for approval prior to installation.

All new timber members shown shall be included in the pay item Treated Timber.

* The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber.

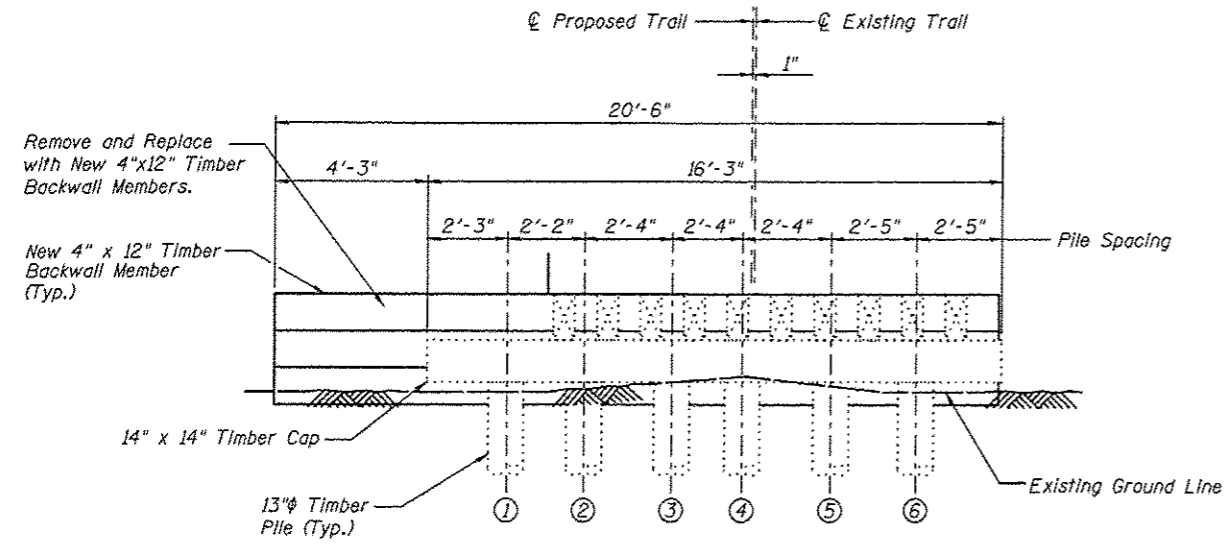


PIER CAP REPLACEMENT

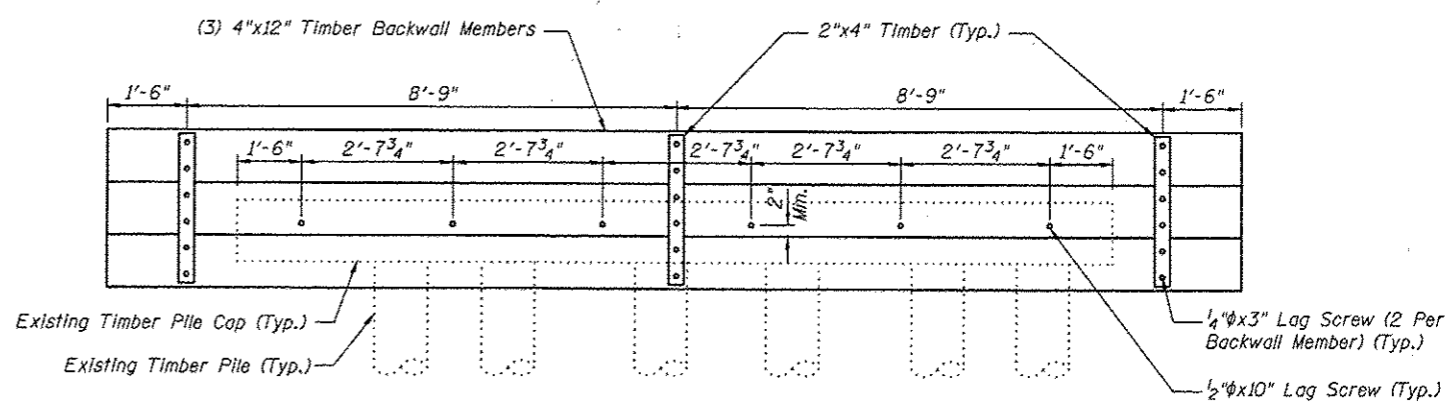
SECTION A-A

SECTION B-B

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 210 North Street, P.O. Box 1345 Granite City, Illinois 62040 Phone: (618) 357-1100 Fax: (618) 357-1101		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2	
PIER 6 & PIER 7 DETAILS			
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: D8	DATE: 10/18/12	SHEET	167
DWN. BY: EER	DATE: 10/18/12		
CHK'D: WWH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 810 SHEETS



EAST ABUTMENT
(Looking East)



EAST ABUTMENT
(Looking West)

EAST ABUTMENT BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	252

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

Jureau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1375 Granite City, Illinois 62040 Phone: (618) 517-1100 Fax: (618) 517-4541		100 North Pleasant Street Edwardsville, Illinois 62025 Phone: (618) 835-3800 Fax: (618) 835-3911	
GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 118+47.70 STRUCTURE NO. 2			
REVISIONS			
NO.	DATE	BY	REMARKS
SCALE:		NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY:	DB	DATE:	10/18/12
DWN. BY:	EER	DATE:	10/18/12
CHK'D:	WWH	DATE:	10/18/12
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 310 SHEETS

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	170
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long as may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots, warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)


Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

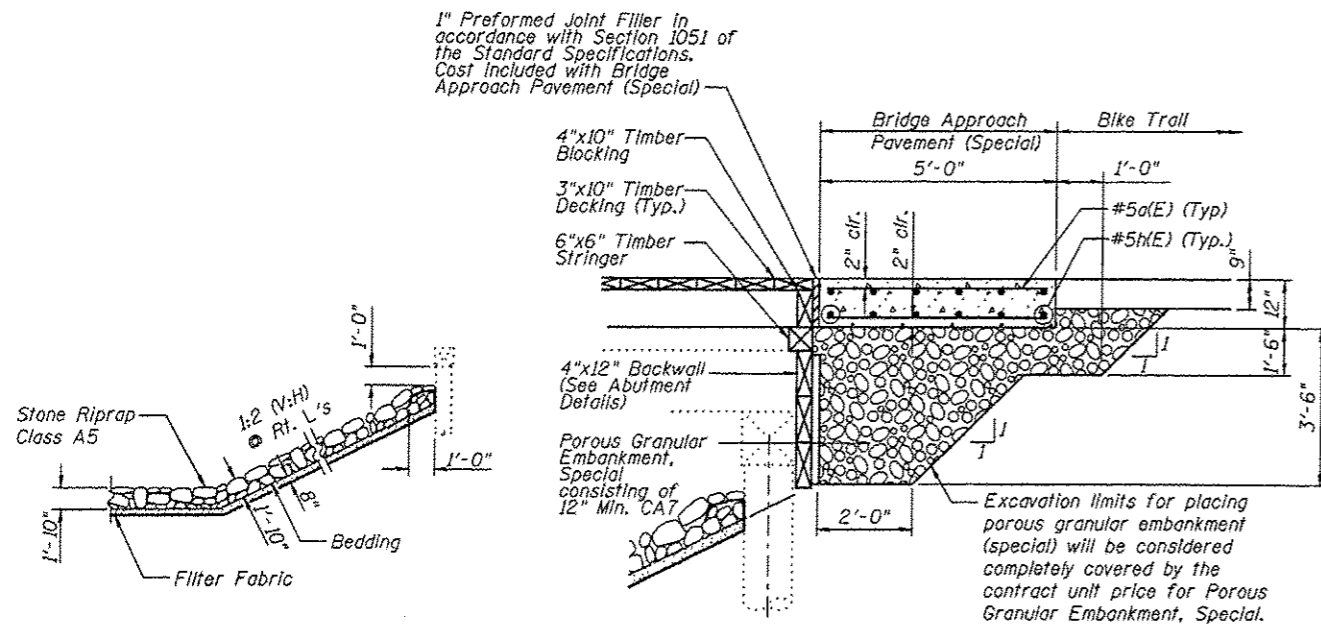
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	82		82
Tree Removal, Acres	Acres		0.02	0.02
Channel Excavation	Cu. Yd.		155	155
Furnished Excavation	Cu. Yd.		75	75
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A5	Sq. Yd.		430	430
Filter Fabric	Sq. Yd.		430	430
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Concrete Encasement	Cu. Yd.		2.0	2.0
Treated Timber	F.B.M.	8085	994	9079

* Concrete Encasement quantity has been increased to account for hidden deficiencies

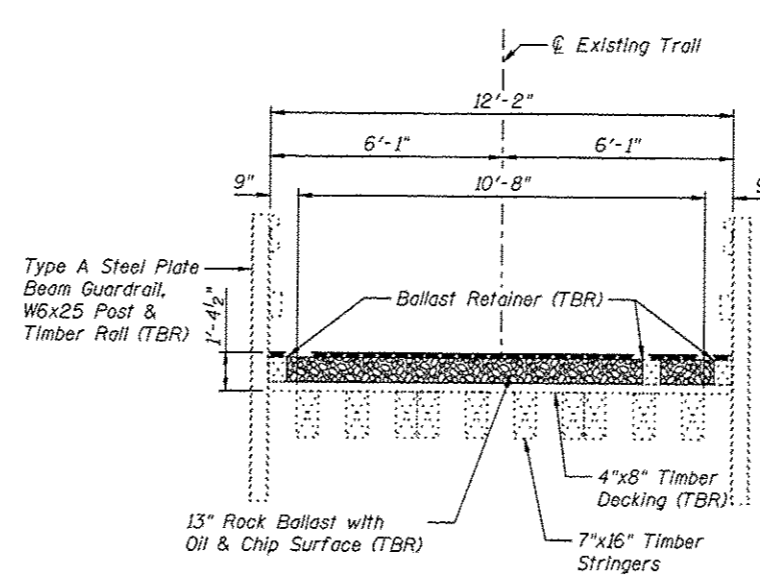
GENERAL NOTES

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2108 State Street, P.O. Box 1225 Granite City, Illinois 62040 Phone: (618) 487-1100 Fax: (618) 487-5511		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3																	
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS													SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS																
DGN NAME: JOB NO. E064403		DGN NO.: OF 810 SHEETS																	
DATE: 10/18/12		SHEET: 170																	

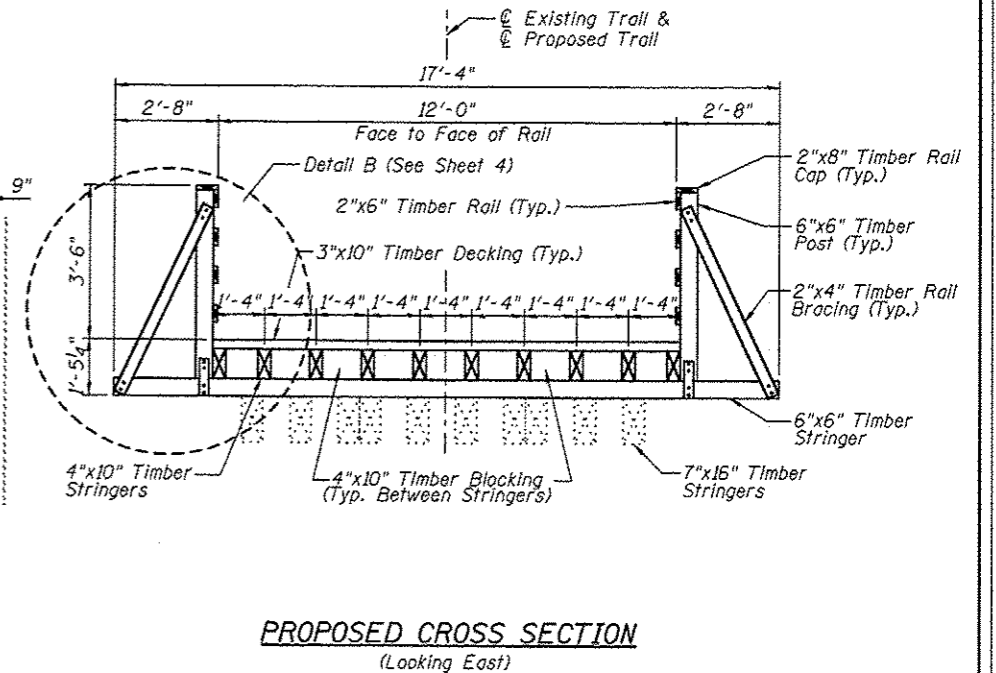


STONE RIPRAP DETAIL

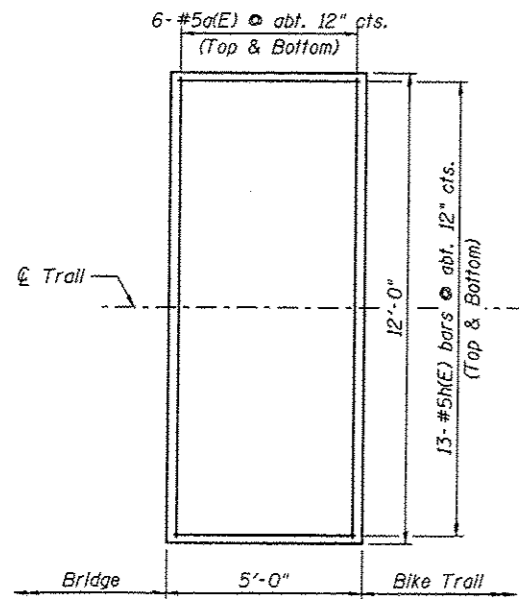
BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



EXISTING CROSS SECTION
(Looking North)

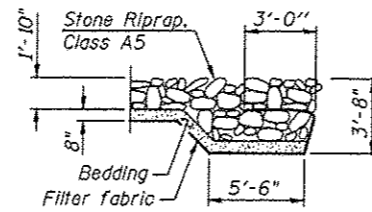


PROPOSED CROSS SECTION
(Looking East)

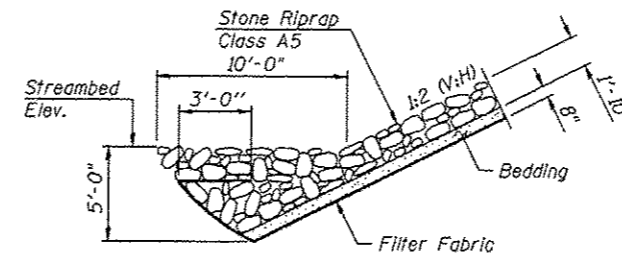


BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN

Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A



SECTION B-B

BRIDGE APPROACH
BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

Note:

All dimensions are approximate.

For Treated Timber quantity, see Sheet No. 4

All new timber members shown shall be included in the pay item Treated Timber.

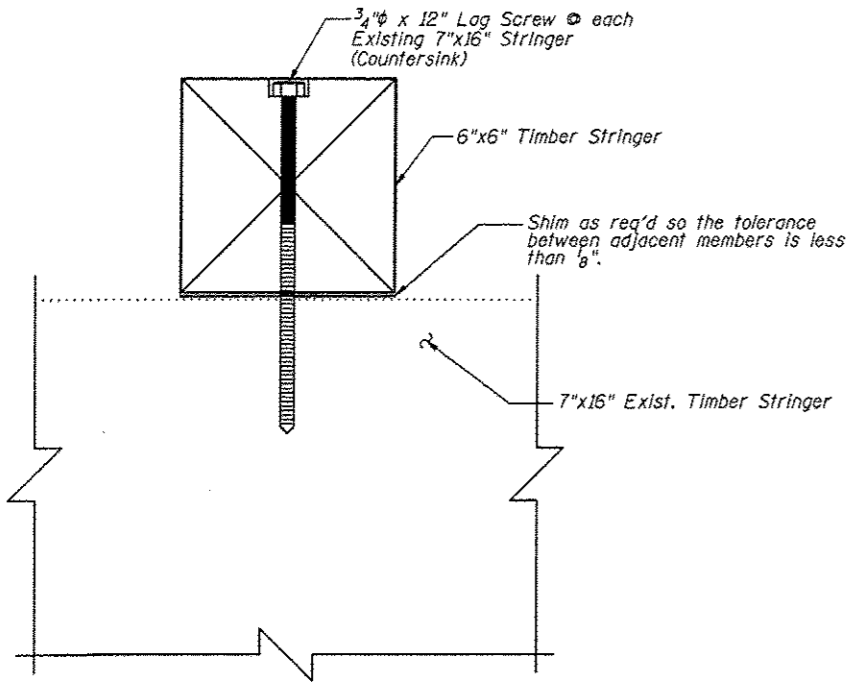
All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3"x8" Timber Rail and 7"x16" Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

REVISIONS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS			
NO.	DATE	BY	REMARKS	DGN. BY:	DATE:	SHEET	
				DB	10/18/12	171	
				EER	10/18/12		
				WWH	10/18/12		
DGN NAME:				JOB NO. E064403	DGN. NO.	OF 310 EHTS	

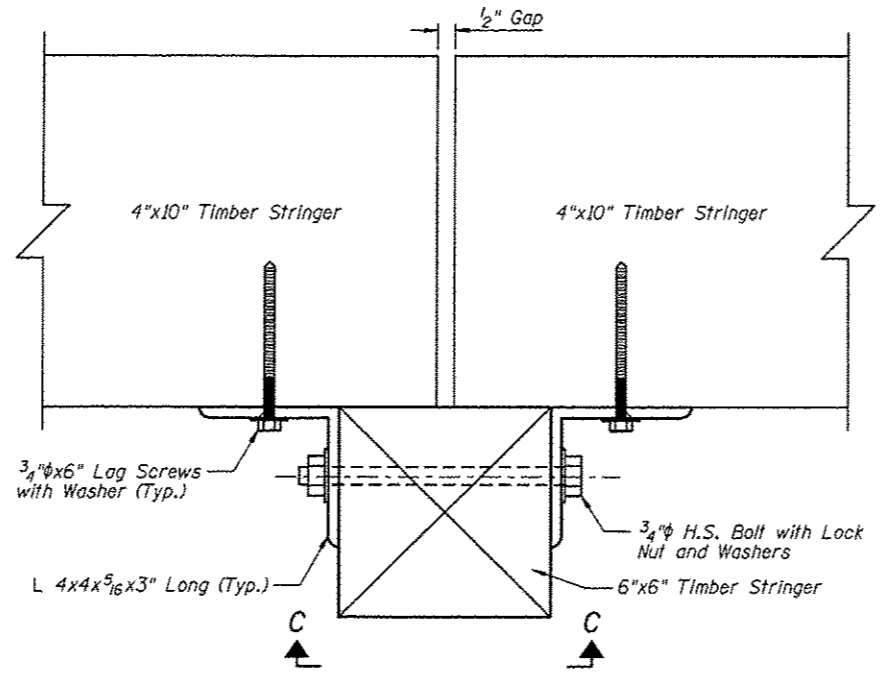
Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
110 State Street, P.O. Box 1227
Grand Rapids, MI 49504
Phone: (616) 251-1200
Fax: (616) 251-2541

**GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 157+37.45
STRUCTURE NO. 3**

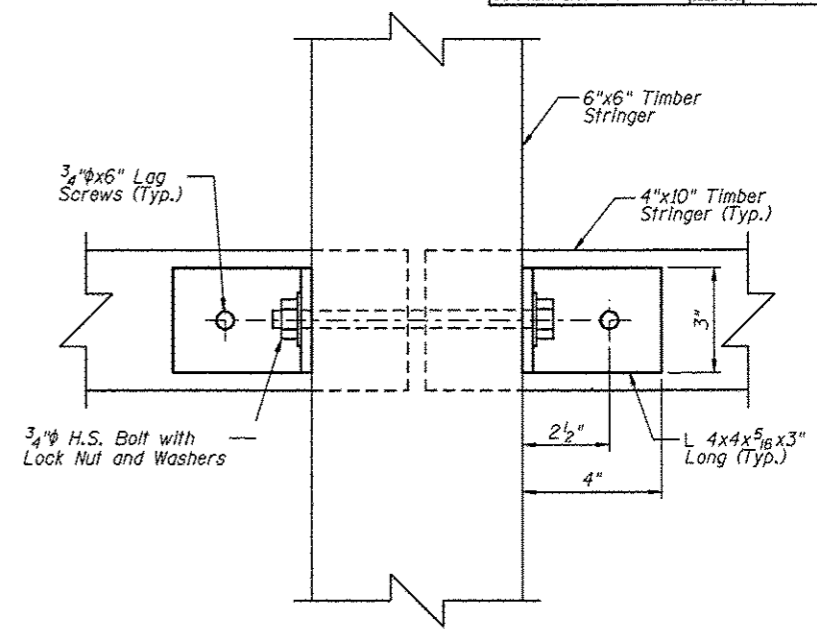
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	172
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 97433			



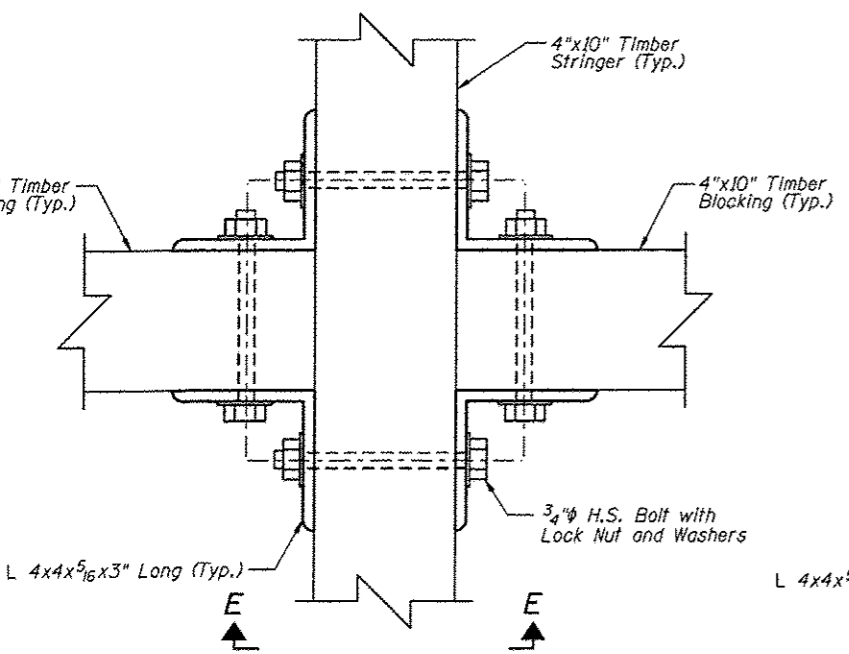
SECTION A-A



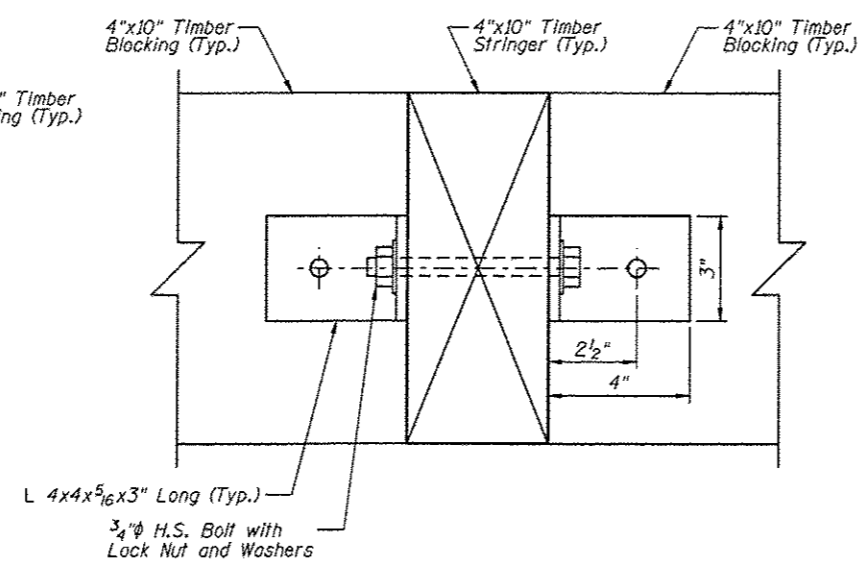
SECTION B-B
(Section G-G Similar)



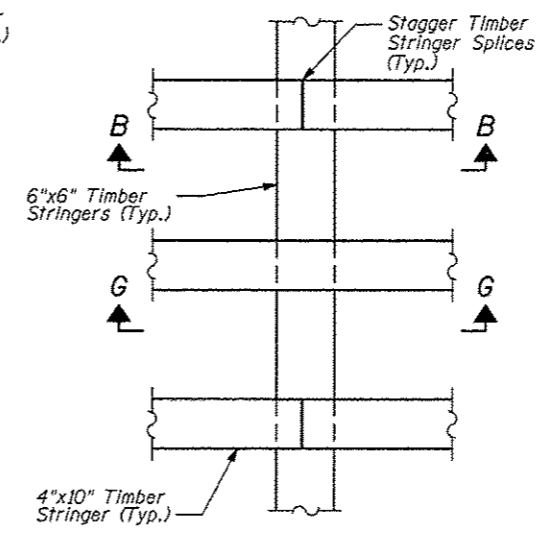
SECTION C-C



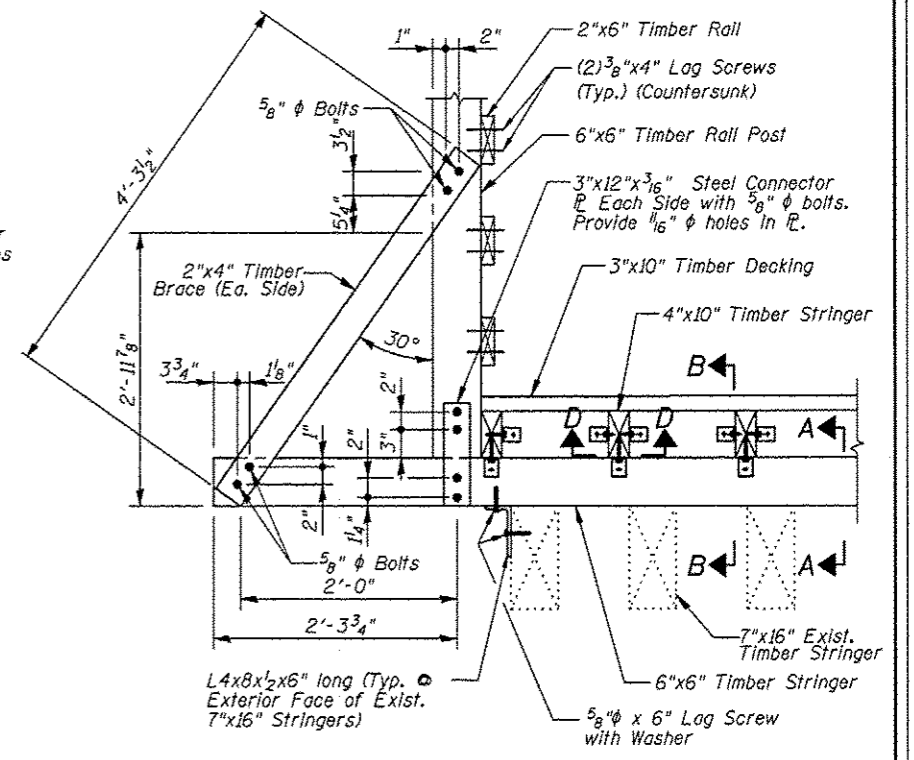
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

SUPERSTRUCTURE
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	8085

Note:

All new timber members shown shall be included in the pay item Treated Timber.

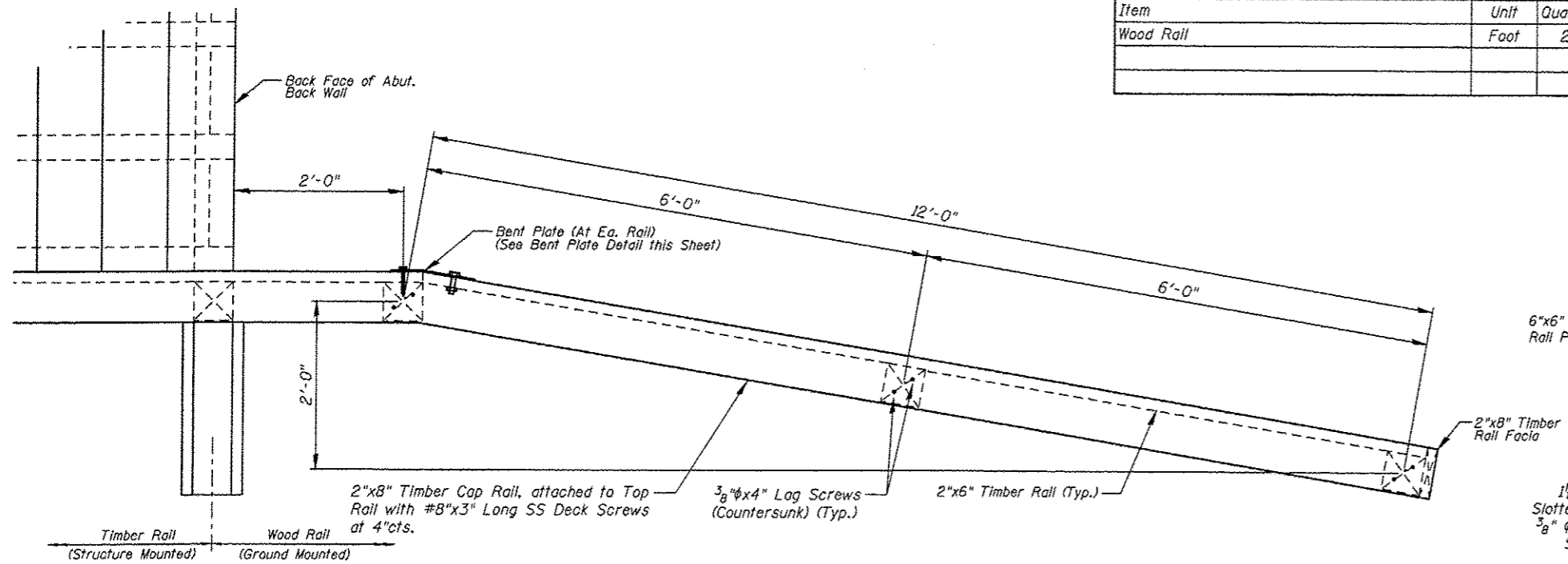
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 1100 State Street, P.O. Box 1325 Oneida, Illinois 62450 Phone: (618) 487-4400 Fax: (618) 487-4501		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE. FOLLOW DIMENSIONS	
		DSN. BY: DB	DATE: 10/18/12
		DWN. BY: EER	DATE: 10/18/12
		CHK'D: WWH	DATE: 10/18/12
DGN NAME:		JOB NO. E064403	DGN. NO. OF 810 SHEETS

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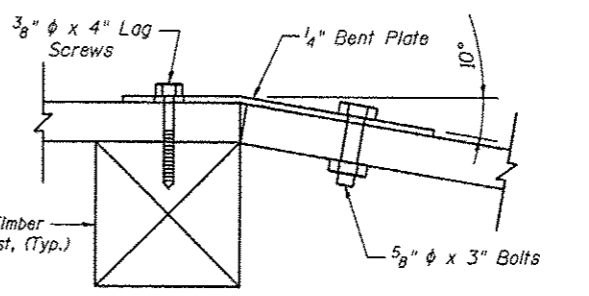
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	173
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

WOOD RAIL BILL OF MATERIAL

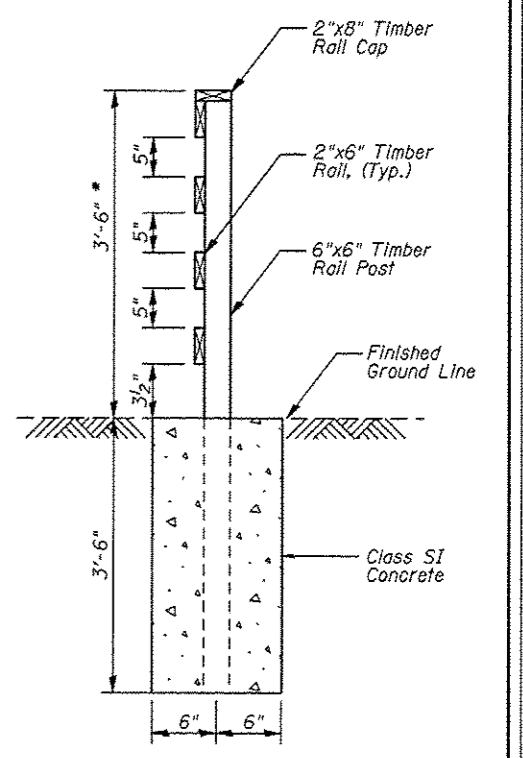
Item	Unit	Quantity
Wood Rail	Foot	29



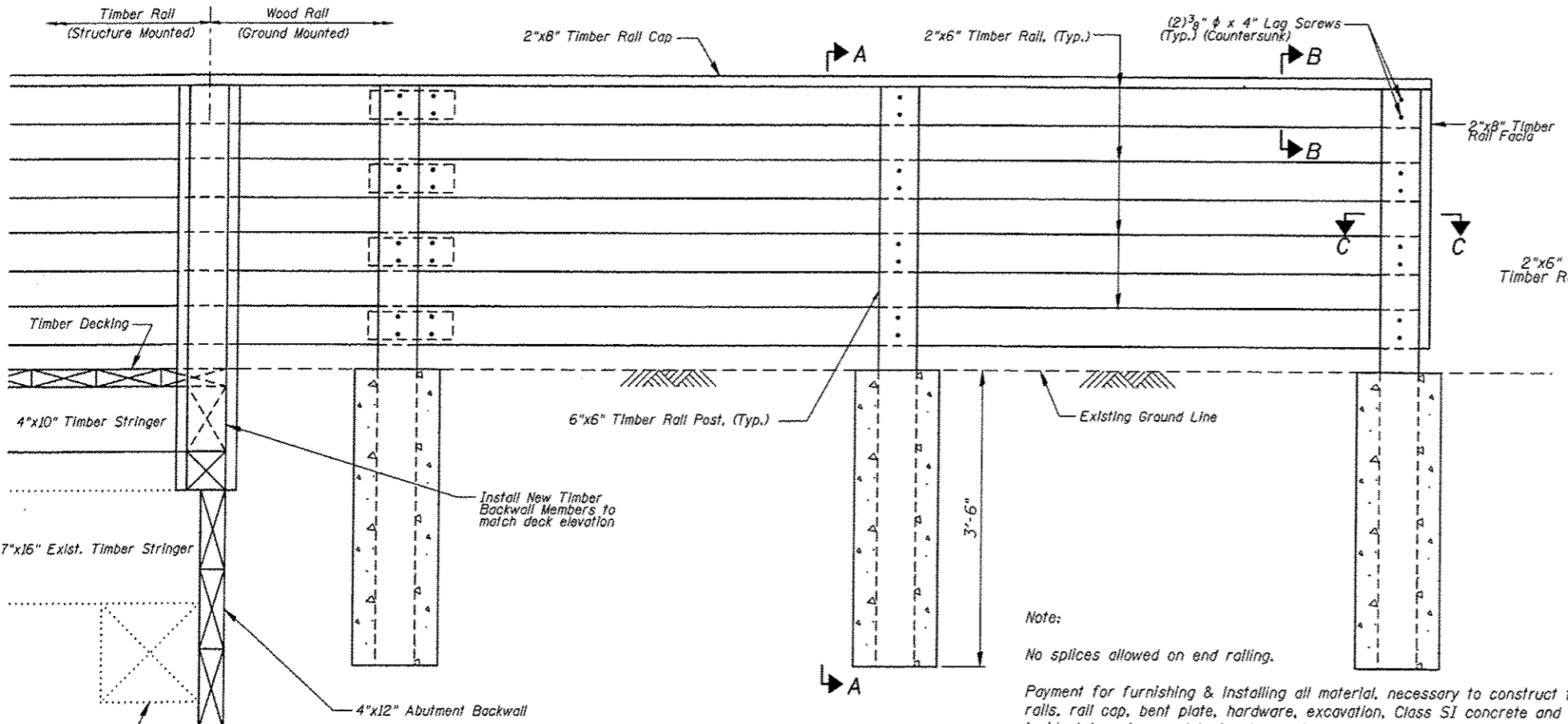
PLAN
(Northwest & Southwest Wood Rail)



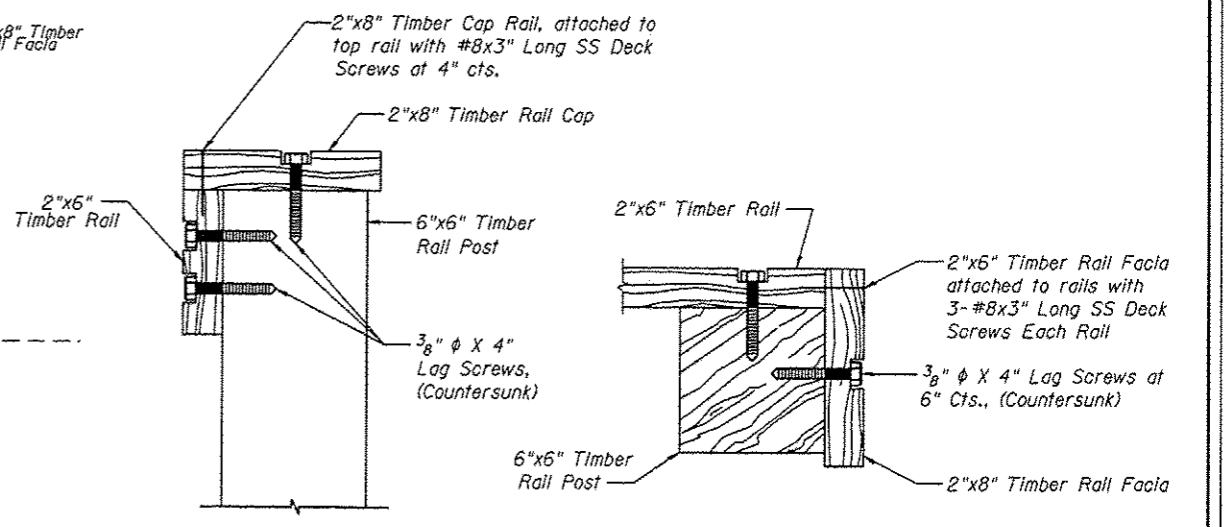
BENT PLATE



SECTION A-A



ELEVATION
(Northwest & Southwest Wood Rail)



SECTION B-B

SECTION C-C

Note:
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

*Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS	
				DSN. BY: DB	DATE: 10/18/12
				DWN. BY: EER	DATE: 10/18/12
				CHK'D: WHH	DATE: 10/18/12

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1225
Naperville, IL 60563
Phone: (630) 315-1100
Fax: (630) 315-5511

GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 197+37.45
STRUCTURE NO. 3

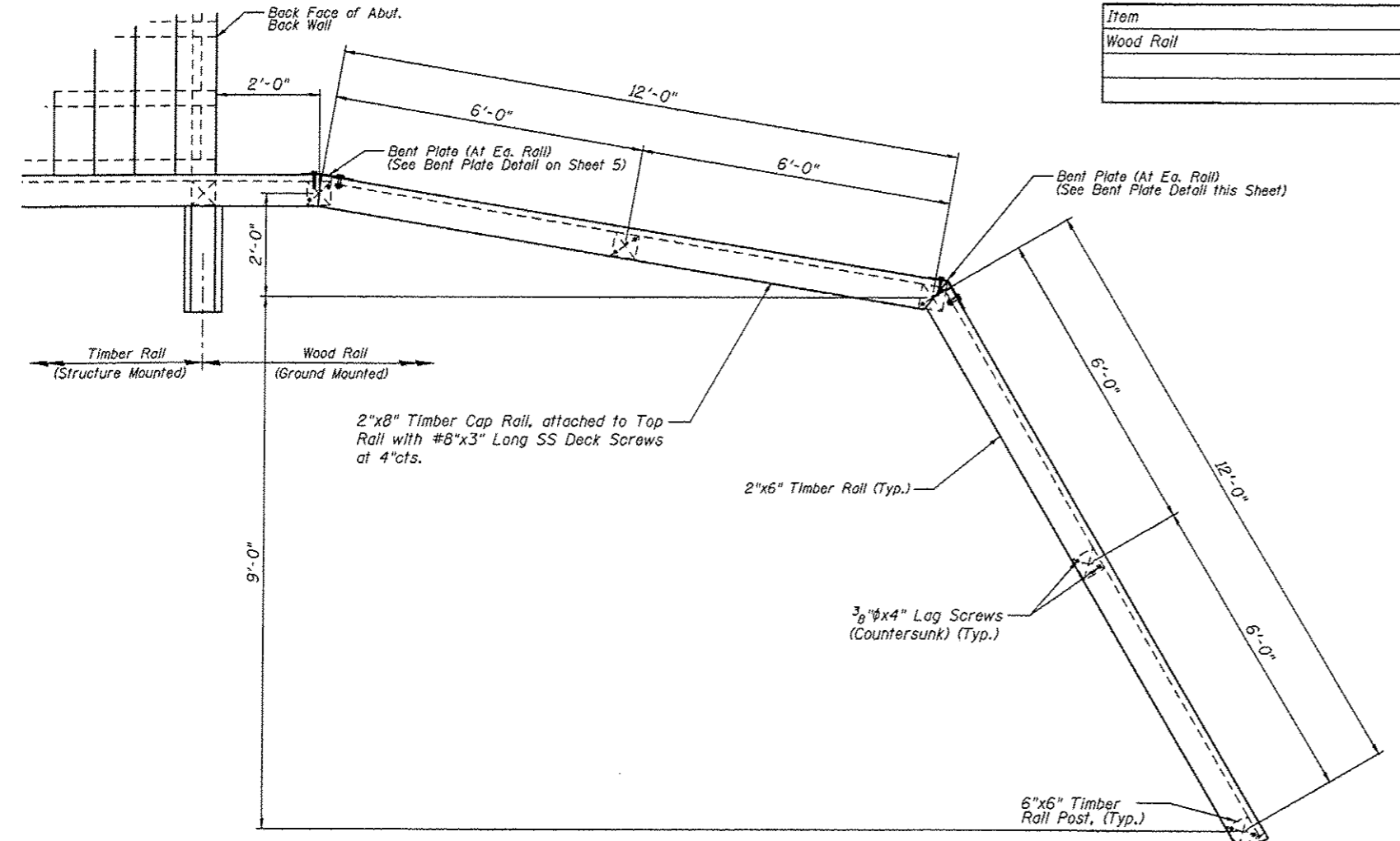
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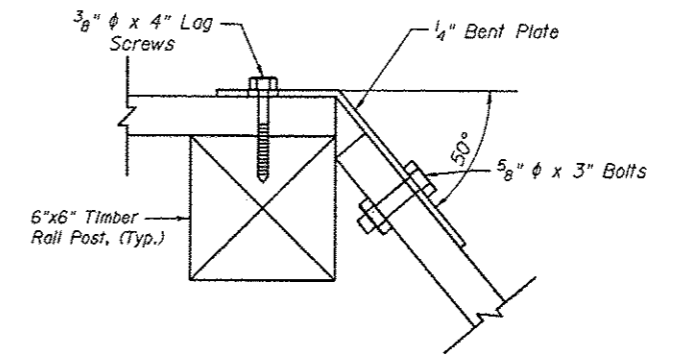
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00016-00-BT	MADISON	310	174
FED. ROAD DIST. NO.	ILLINOIS		CONTRACT NO. 97433	

WOOD RAIL BILL OF MATERIAL

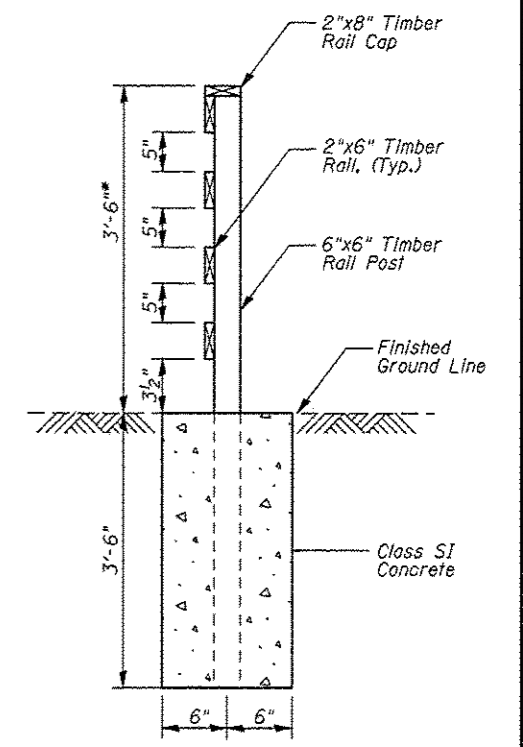
Item	Unit	Quantity
Wood Rail	Foot	53



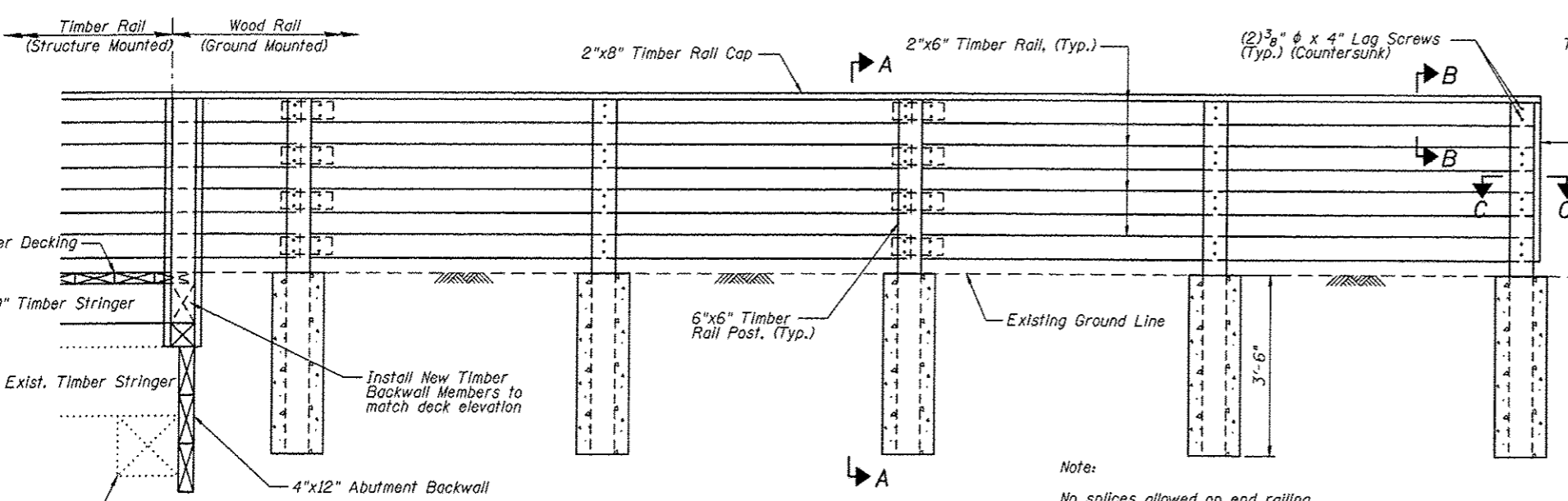
PLAN
(Northeast & Southeast Wood Rail)



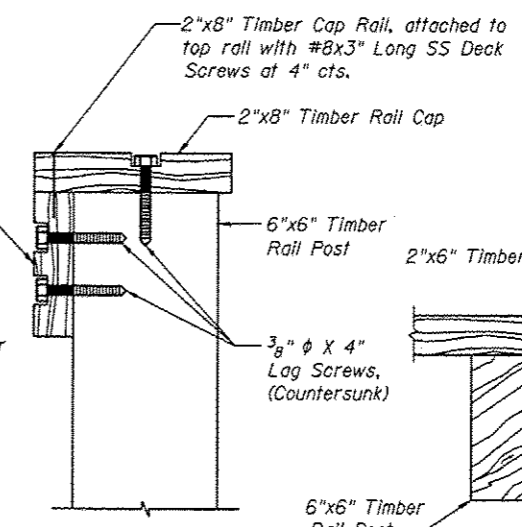
BENT PLATE



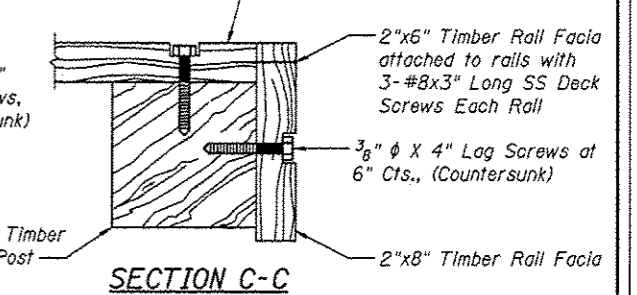
SECTION A-A



ELEVATION
(Northeast & Southeast Wood Rail)



SECTION B-B



SECTION C-C

Note:

No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

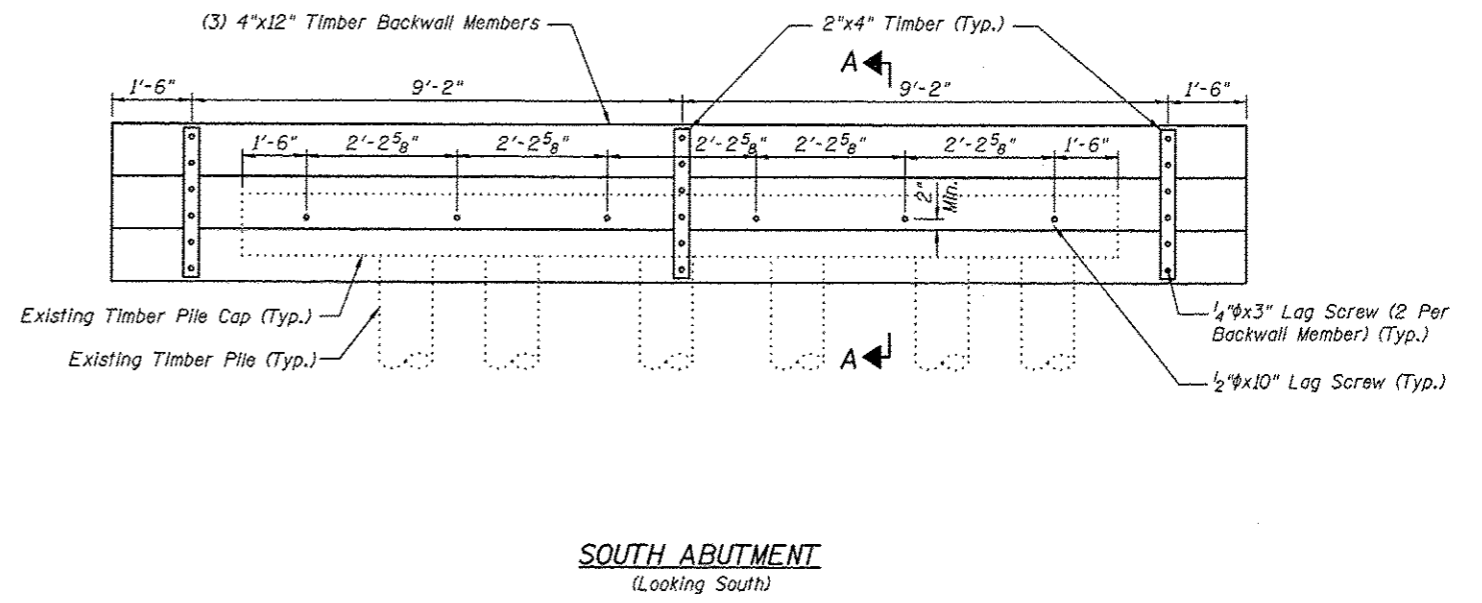
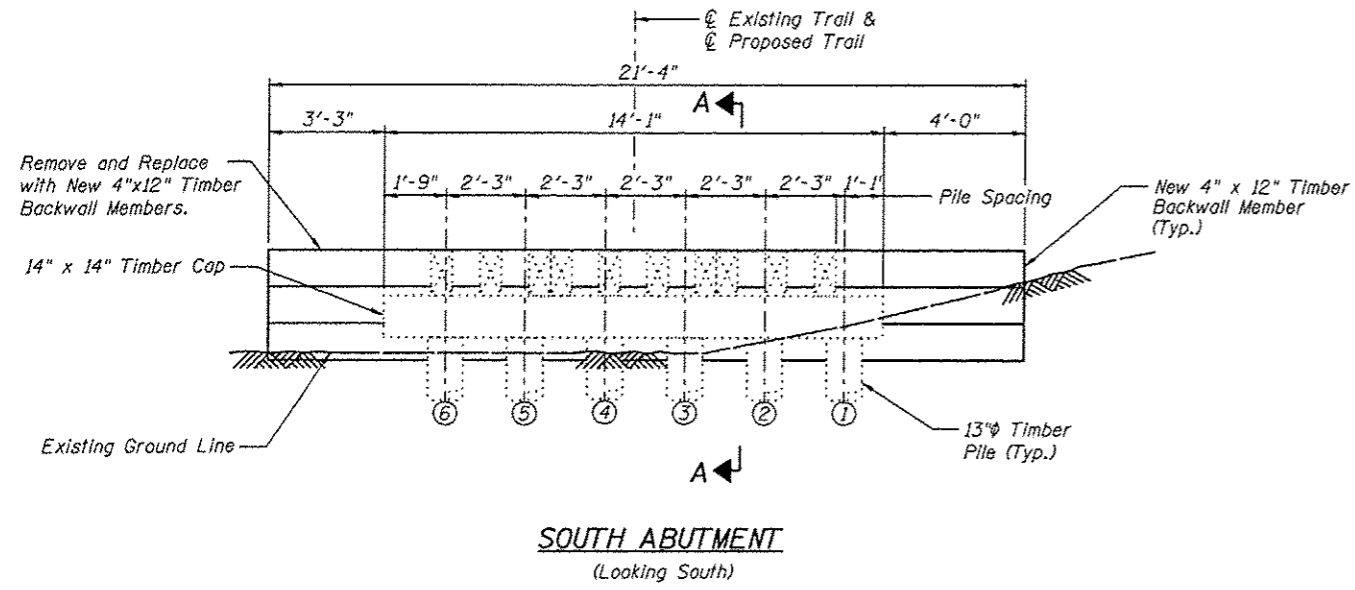
* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

Sheet 6 of 12

REVISIONS				SCALE:			
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS			

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2146 State Street, P.O. Box 1245 Granite City, Illinois 62406 Phone: (618) 953-1100 Fax: (618) 953-4541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3	
DGN. BY: DB	DATE: 10/18/12	SHEET	174
DWN. BY: EER	DATE: 10/18/12	CHKD.:	WWH
DATE: 10/18/12	DGN. NO.:	DP 819	BRTS

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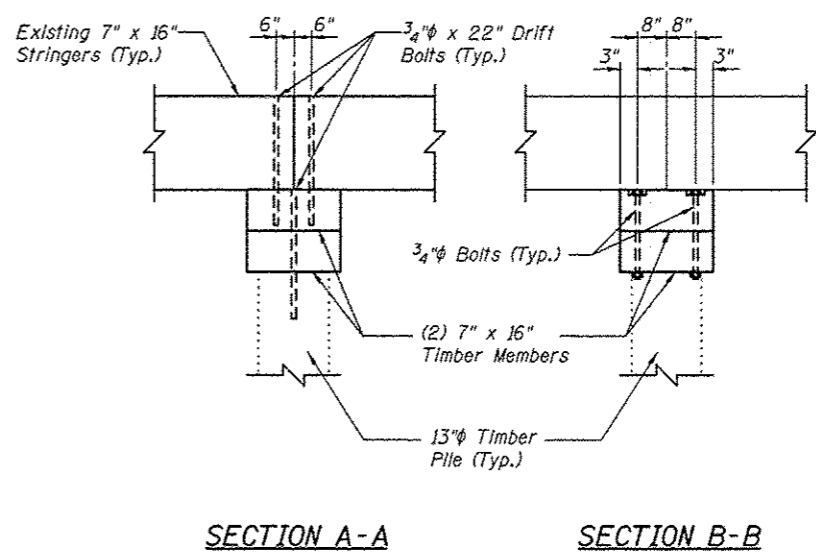
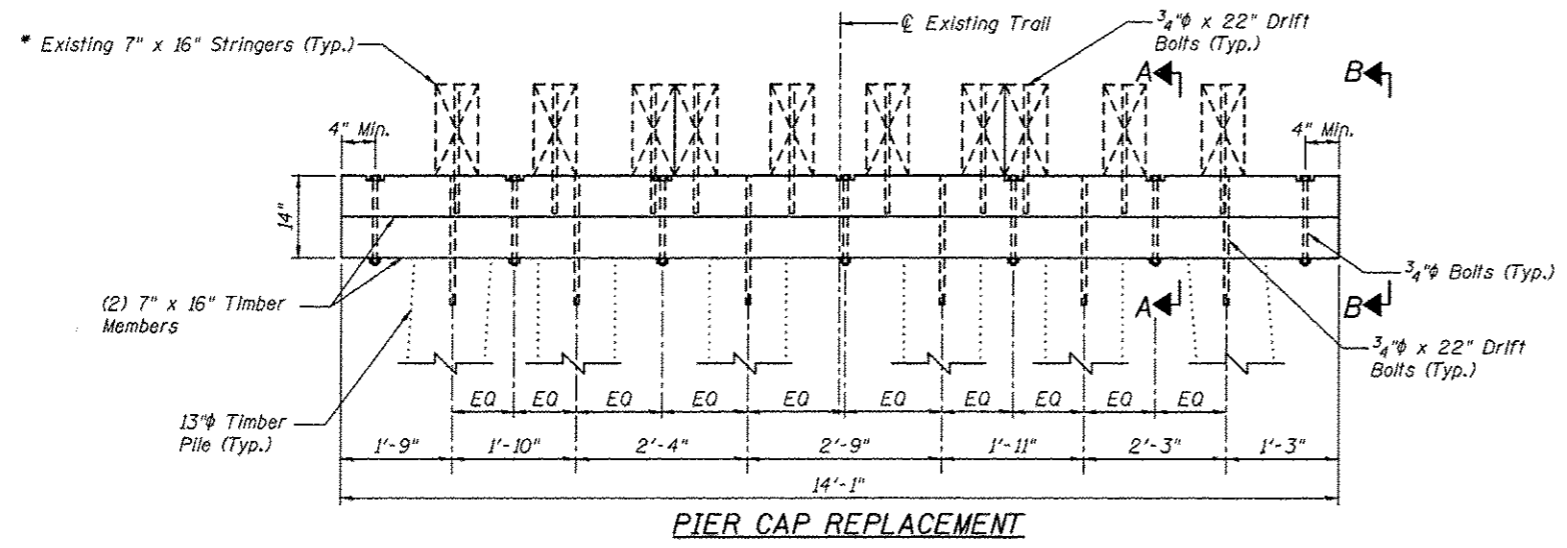
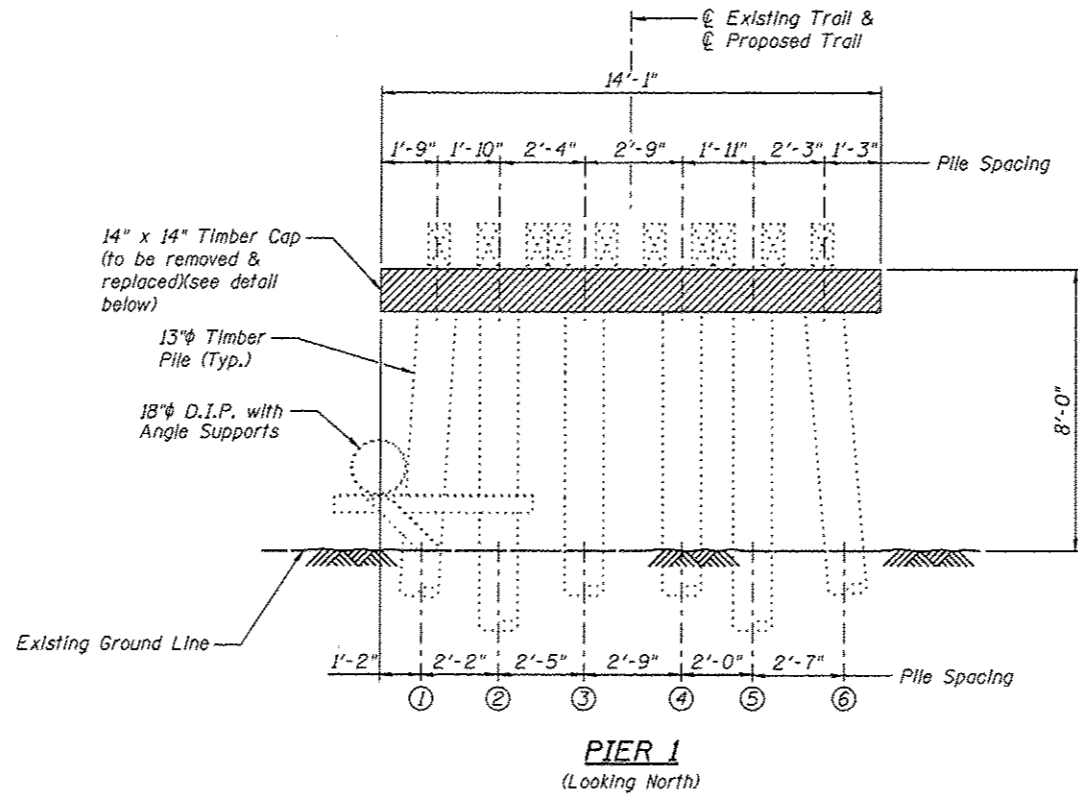
**SOUTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	262

Notes:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

SOUTH ABUTMENT DETAILS		Juneau Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> 2100 State Street, P.O. Box 1325 100 North Riverside Street Granite City, Illinois 62040 Granite City, Illinois 62040 Phone: (618) 947-1100 Phone: (618) 947-2999 Fax: (618) 947-5241 Fax: (618) 947-5241																										
GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS																										
<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS				NO.	DATE	BY	REMARKS					<table border="1"> <tr> <td>DGN. BY:</td> <td>DB</td> <td>DATE:</td> <td>10/18/12</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">SHEET 175</td> </tr> <tr> <td>DWN. BY:</td> <td>EER</td> <td>DATE:</td> <td>10/18/12</td> </tr> <tr> <td>CHK'D:</td> <td>WNH</td> <td>DATE:</td> <td>10/18/12</td> </tr> </table>		DGN. BY:	DB	DATE:	10/18/12	SHEET 175	DWN. BY:	EER	DATE:	10/18/12	CHK'D:	WNH	DATE:	10/18/12
REVISIONS																												
NO.	DATE	BY	REMARKS																									
DGN. BY:	DB	DATE:	10/18/12	SHEET 175																								
DWN. BY:	EER	DATE:	10/18/12																									
CHK'D:	WNH	DATE:	10/18/12																									
DGN NAME:		JOB NO. E064403		DGN. NO.	OF 310 SHTS																							

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	176
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 97433			

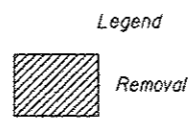


Notes:
 All dimensions are approximate.
 All new timber members shown shall be included in the pay item Treated Timber.

* The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber

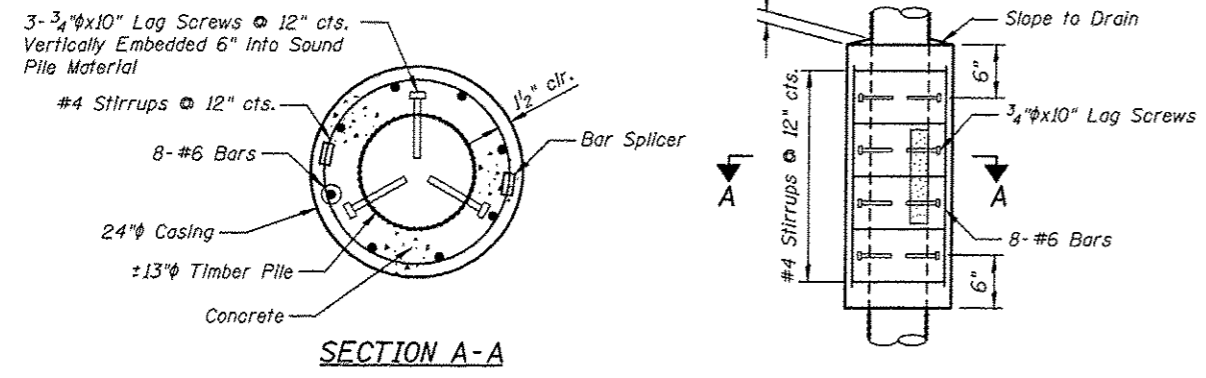
PIER 1
 BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	263



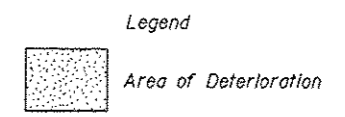
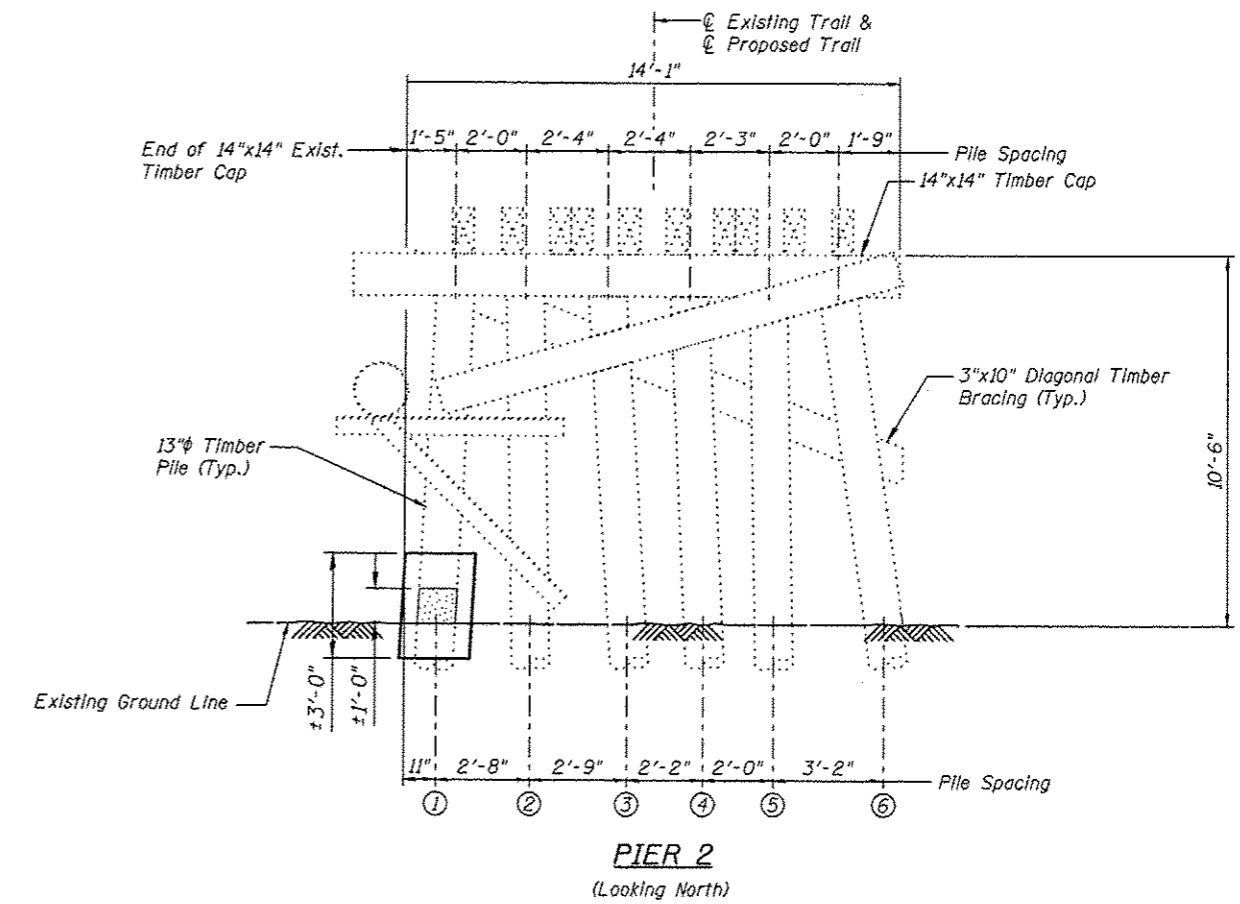
PIER 1 DETAILS CONSULTING ENGINEERS AND LAND SURVEYORS 7100 State Street, P.O. Box 1325 Juneau, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-4551		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12		SHEET: 176	
DWN. BY: EER DATE: 10/18/12		OF 810 SHEETS	
CHK'D: WWH DATE: 10/18/12		JOB NO. E064403 DGN. NO.	
DGN NAME:		OF 810 SHEETS	

Printed 10/22/12 12:19:23 PM W:\STRUCT\064403 IMCT Heritage Trail\Drawings\Structure 03\Proposed Structure 03\PIER 1 (08/11) Pier Ldgn



Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS



**PIER 2
BILL OF MATERIAL**

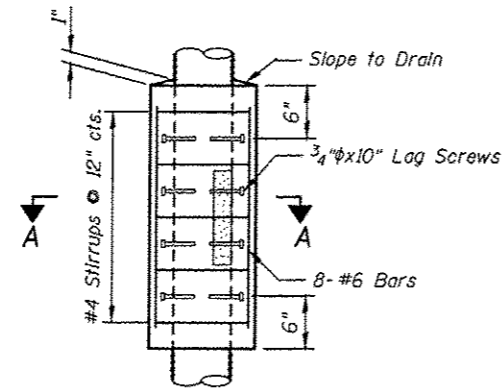
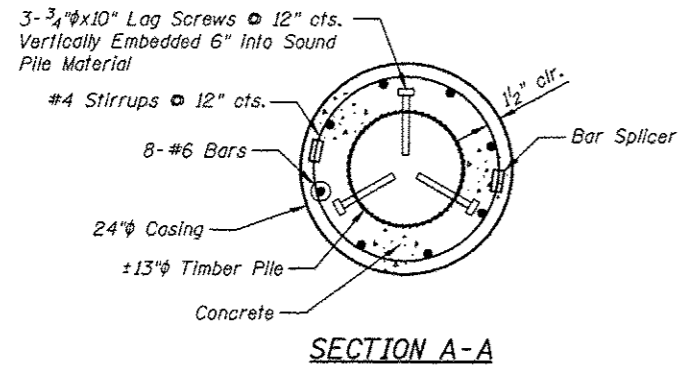
Item	Unit	Quantity
Concrete Encasement	Cu Yd	0.4

For estimated quantities, see Special Provisions.

Notes:

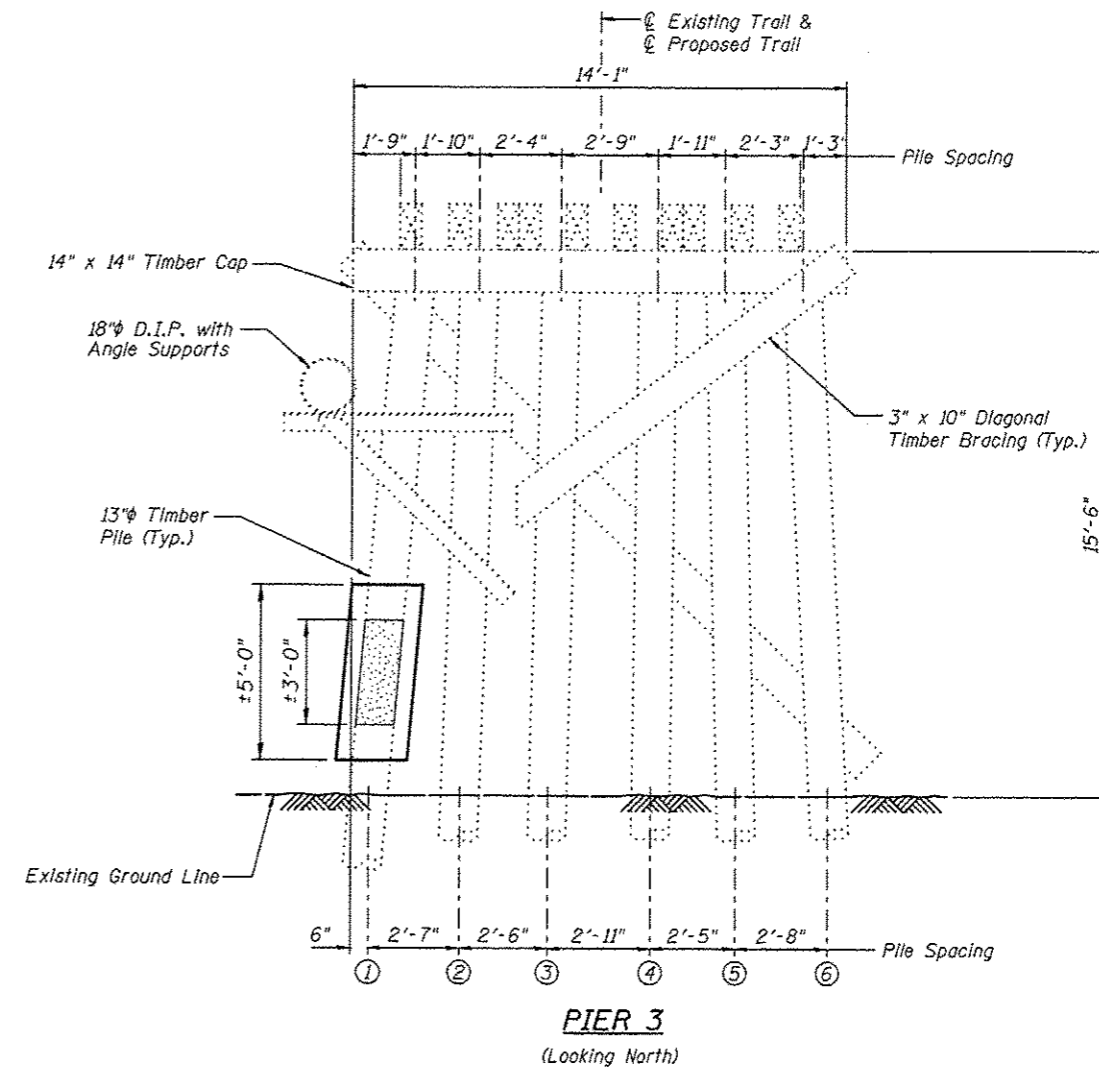
All dimensions are approximate.
Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2108 Shea Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 337-4100 Fax: (618) 337-4511</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
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<p>JOB NO. E064403</p>		<p>DATE: 10/18/12</p>									
<p>DGN NO.</p>		<p>CHK'D: WWH DATE: 10/18/12</p>									
<p>OF 310 BRGS</p>		<p>CONTRACT NO. 97433</p>									



Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS



**PIER 3
BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Encasement	Cu Yd	0.6

For estimated quantities, see Special Provisions.

Legend
 Area of Deterioration

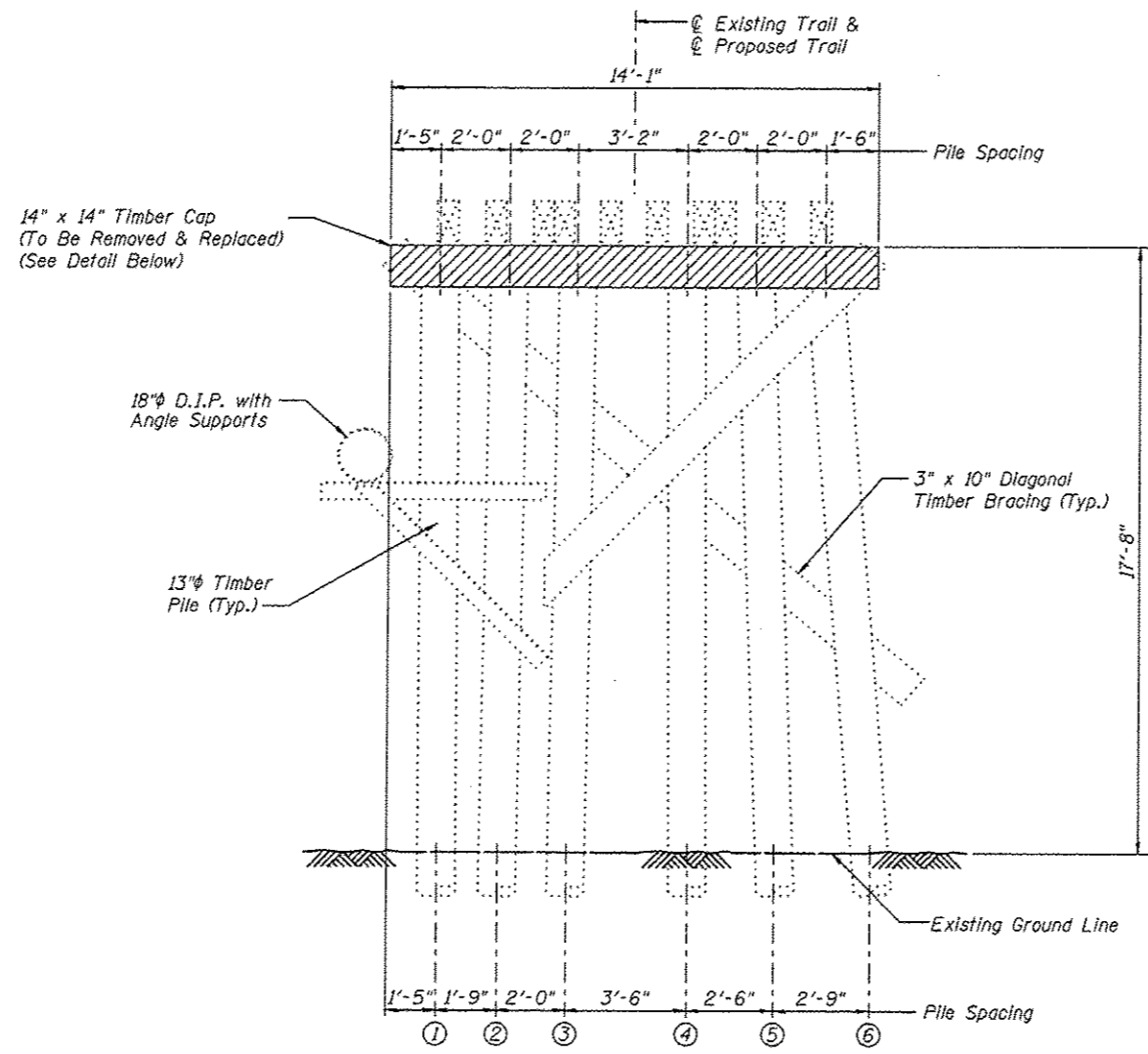
Notes:

All dimensions are approximate.

Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

 Juneau Associates, Inc. P.C. CONSULTING ENGINEER AND LAND SURVEYORS 2120 State Street, P.O. Box 1335 Granite City, Illinois 62040 Phone: (618) 267-1400 Fax: (618) 267-9511		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB	DATE: 10/18/12	SHEET	
DWN. BY: EER	DATE: 10/18/12	178	
CHK'D: WWH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 310 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

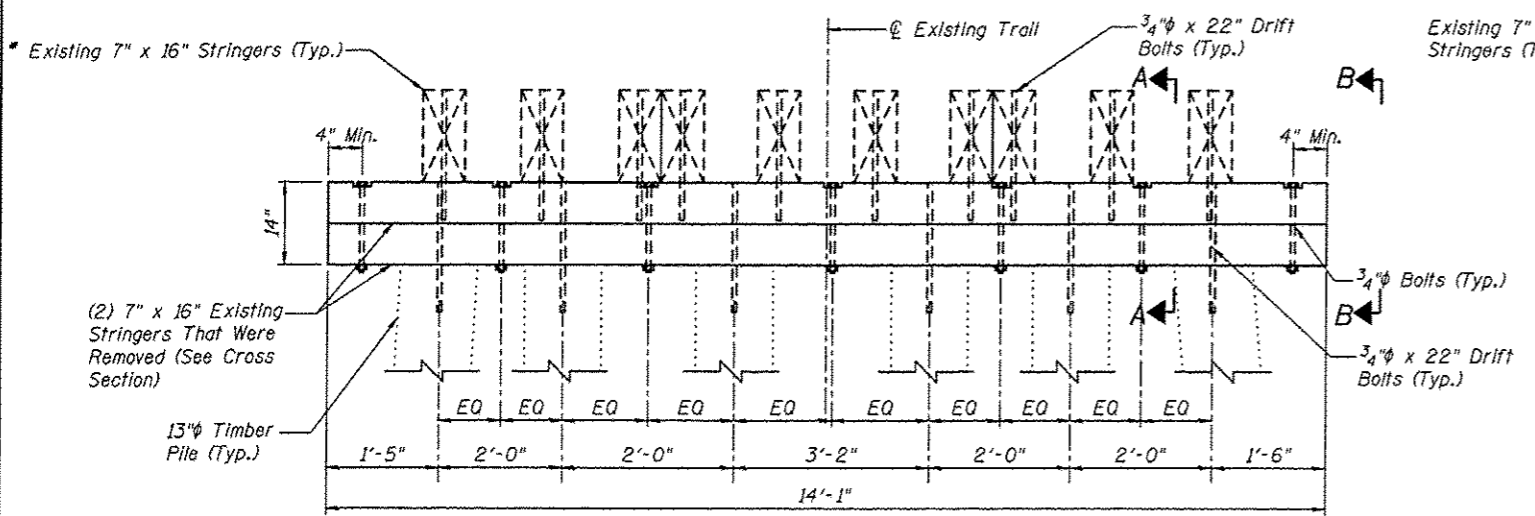


PIER 4
(Looking North)

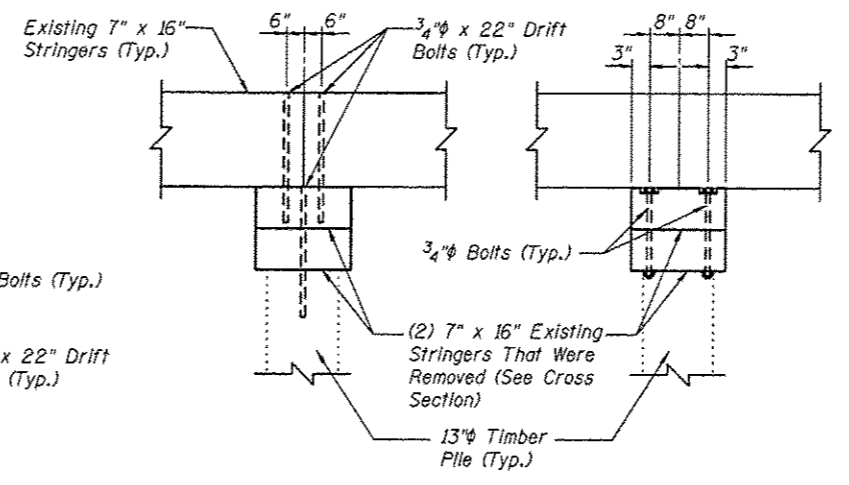
PIER 4
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	263

10:02:45 AM 12/19/2012 W:\STRUCTURE\064403 UMC1 Heritage Trail\Drawings\Structure 403\Proposed Structure 403\Pier 4 & Pier 5.dgn

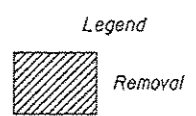


PIER CAP REPLACEMENT



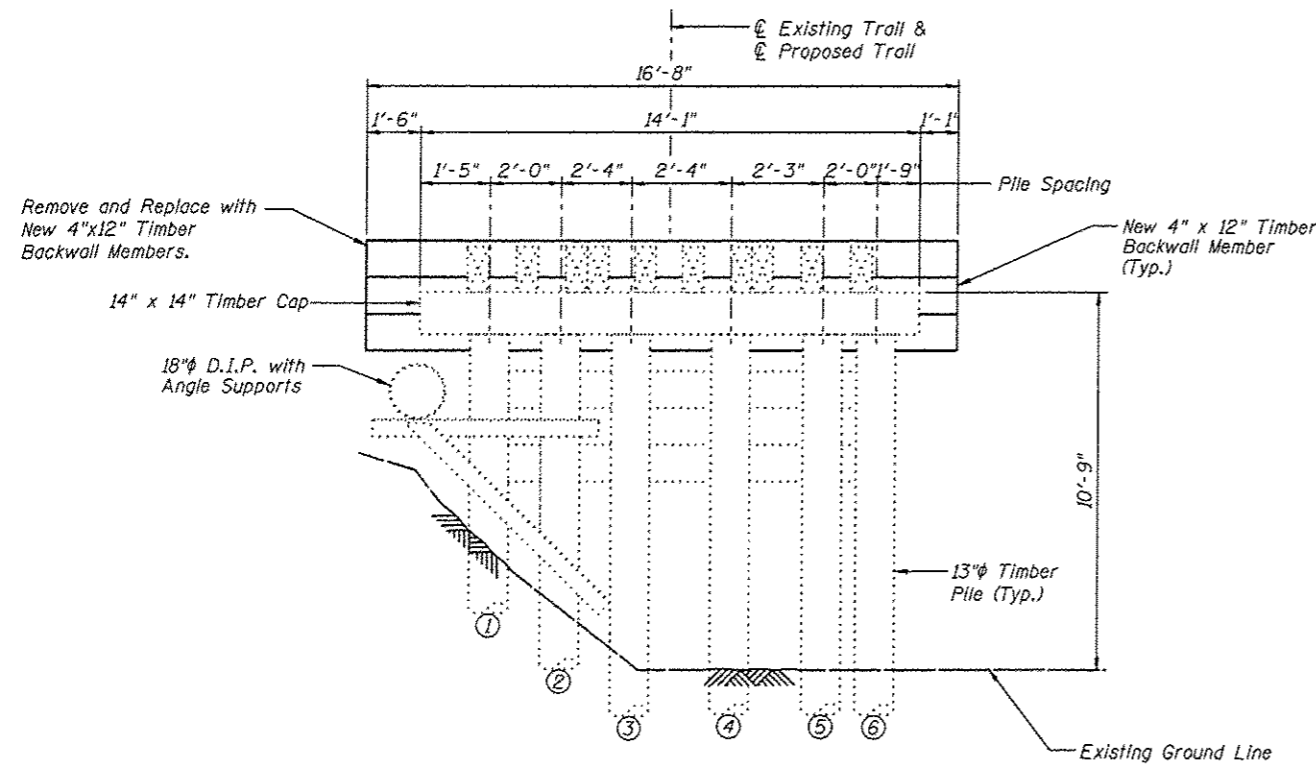
SECTION A-A

SECTION B-B

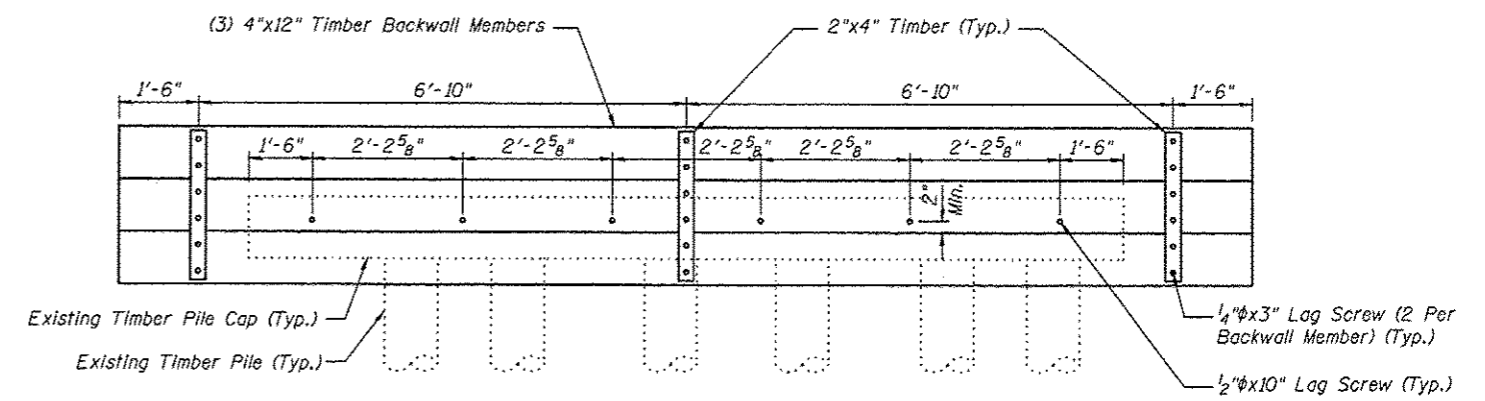


Notes:
 All dimensions are approximate.
 * The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber.

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2160 State Street, P.O. Box 1035 Seattle, WA 98101-1035 Phone: (206) 461-1122 Fax: (206) 461-0911		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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DGN NAME:		JOB NO. E064403 DGN NO. OF 310 SETS	



NORTH ABUTMENT
(Looking North)



NORTH ABUTMENT
(Looking North)

**NORTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	206

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

Juneau Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> 2100 Shea Street, P.O. Box 1335 Granite City, Illinois 62040 Phone: (618) 383-1400 Fax: (618) 383-0511		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 157+37.45 STRUCTURE NO. 3	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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CHK'D: WWH DATE: 10/18/12		OF 310 SHEETS	
DGN NAME:			

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	182
FED. ROAD DIST. NO.	ILLINOIS		CONTRACT NO. 97433	

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long as may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent

Plan dimensions and details relative to existing structure are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS


f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	76		76
Tree Removal, Acres	Acres		0.03	0.03
Channel Excavation	Cu. Yd.		120	120
Furnished Excavation	Cu. Yd.		40	40
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A5	Sq. Yd.		320	320
Filter Fabric	Sq. Yd.		320	320
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Treated Timber	F.B.M.	6789	522	7311

GENERAL NOTES

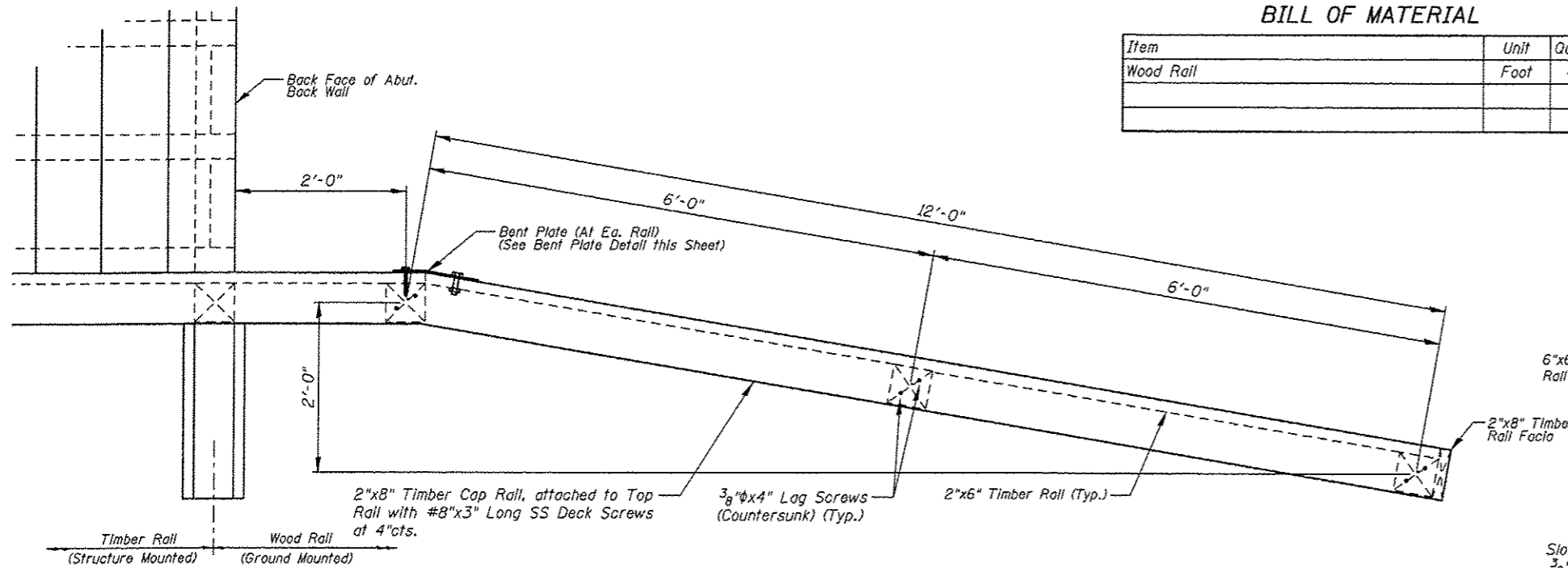
 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 125 Granite City, Illinois 62040 Phone: (618) 202-1100 Fax: (618) 202-4541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 167+25.86 STRUCTURE NO. 4									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS								
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JOB NO. E064403		DWN. BY: EER	DATE: 10/18/12								
DGN. NO.		CHK'D: WWH	DATE: 10/18/12								
OF 810 SHEETS		182									

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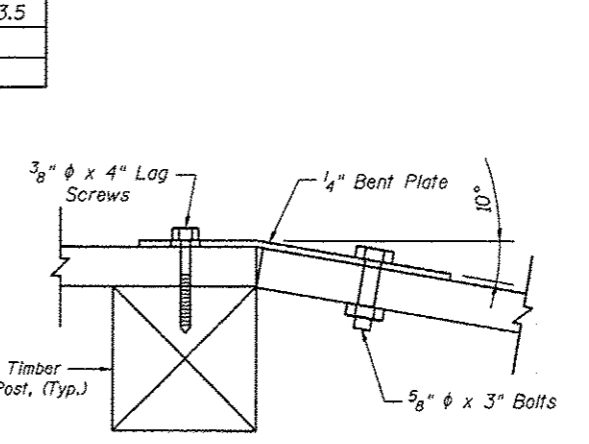
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FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	

WOOD RAIL BILL OF MATERIAL

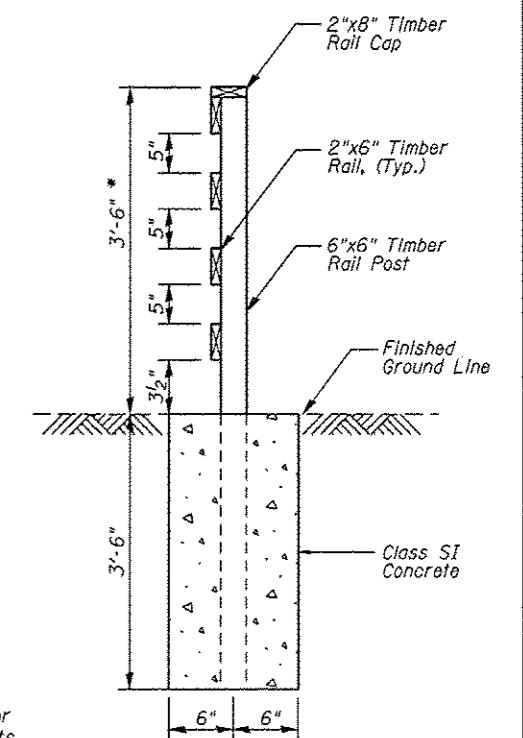
Item	Unit	Quantity
Wood Rail	Foot	43.5



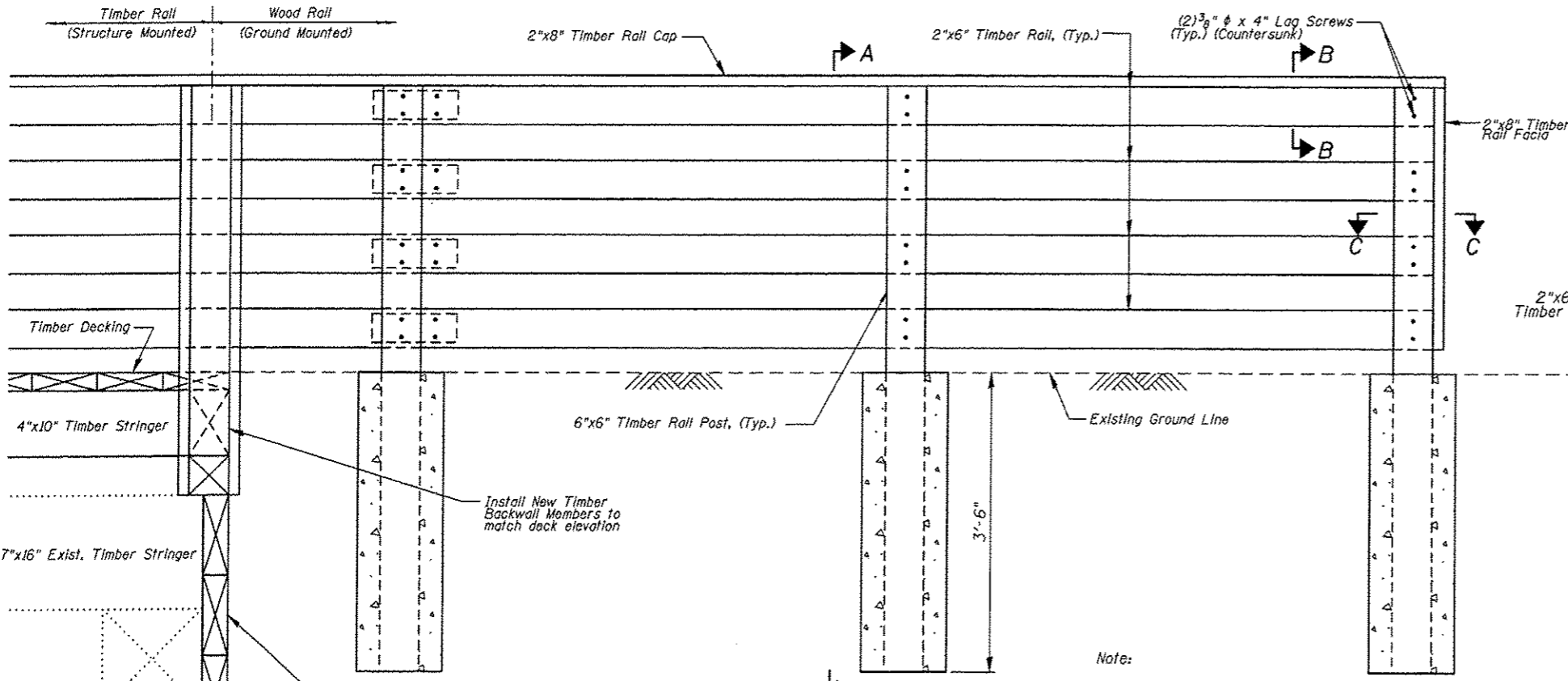
PLAN



BENT PLATE

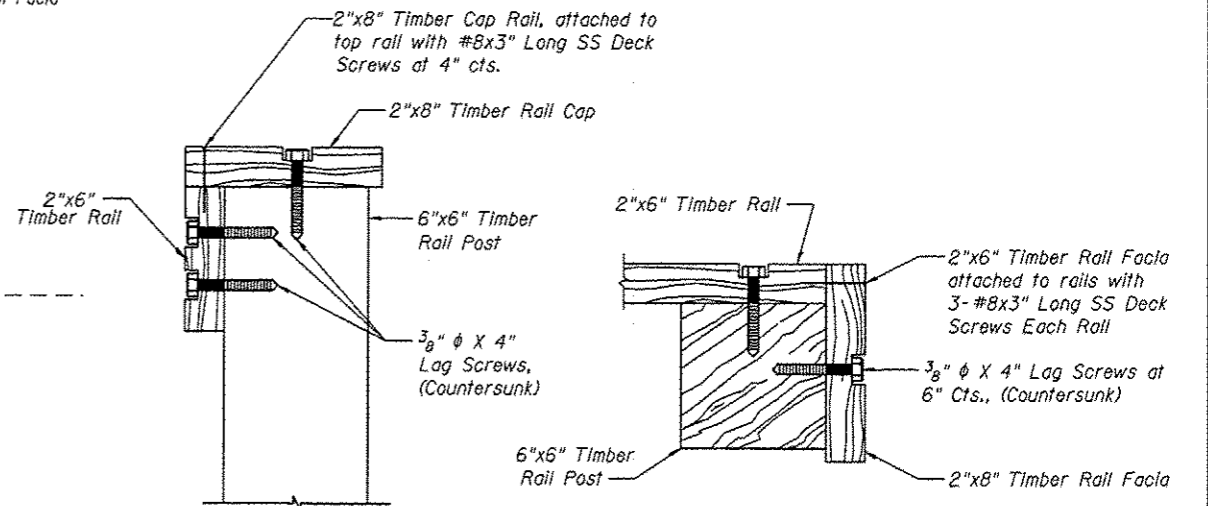


SECTION A-A



ELEVATION

Typical Wood Rail
Except as Noted (See Sheet 6)



SECTION B-B

SECTION C-C

Note:
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

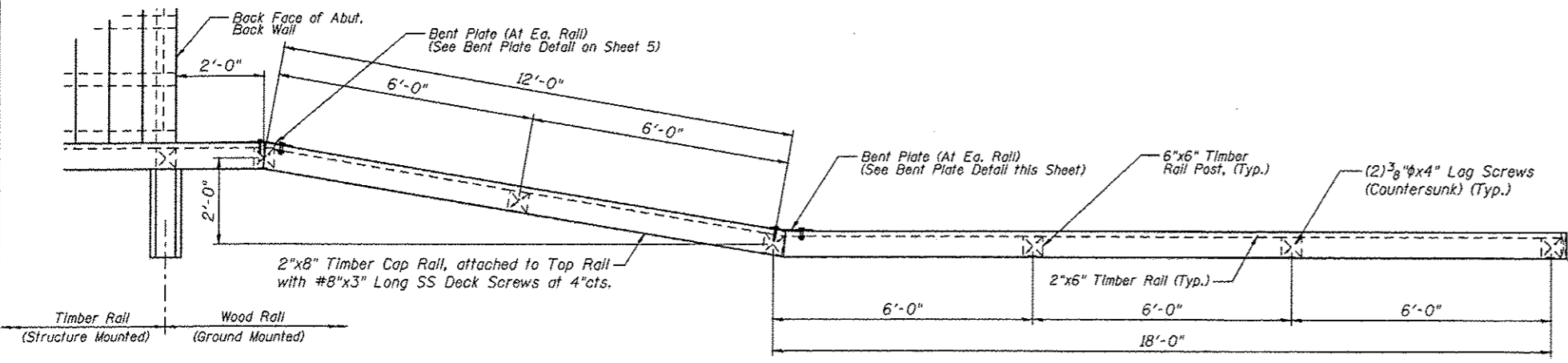
WOOD RAIL DETAILS											
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Greenville, Illinois 62401 Phone: (618) 871-1100 Fax: (618) 871-5511</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 167+25.86 STRUCTURE NO. 4</p>									
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<p>CHK'D: WWH</p>		<p>DATE: 10/18/12</p>									
<p>DGN. NAME:</p>		<p>JOB NO. E064403 DGN. NO.</p>									
<p>Sheet 5 of 9</p>		<p>SHEET 185</p>									

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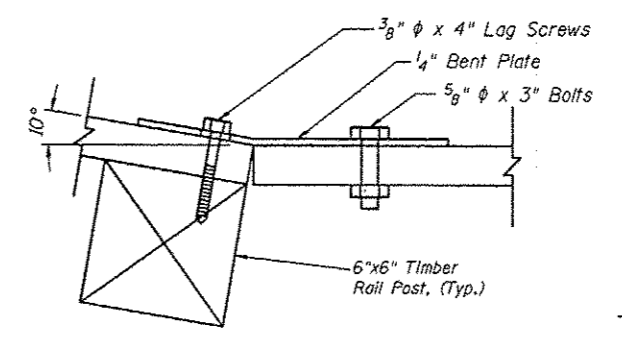
WOOD RAIL BILL OF MATERIAL

Item	Unit	Quantity
Wood Rail	Foot	32.5

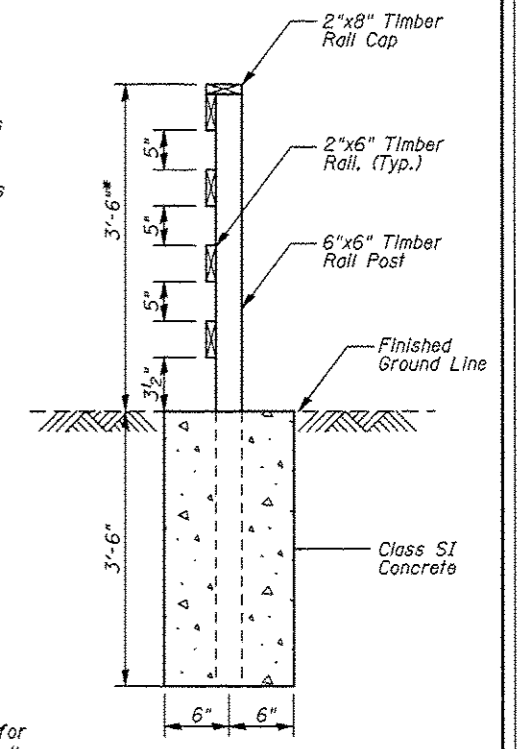
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	06-00016-00-BT	MADISON	310	186
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		



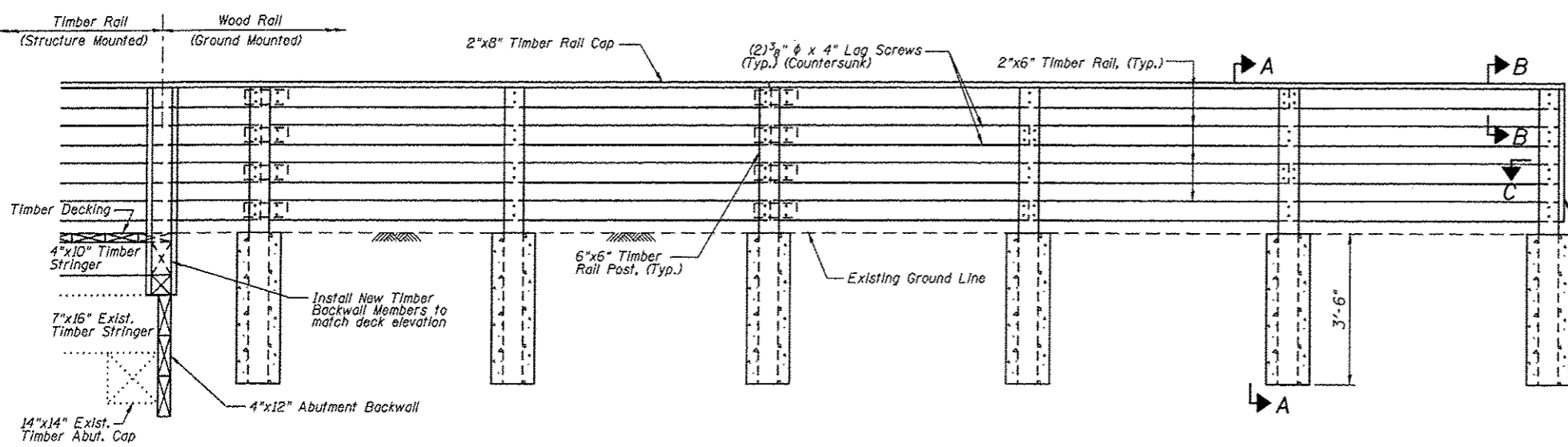
PLAN
(Northeast Wood Rail)



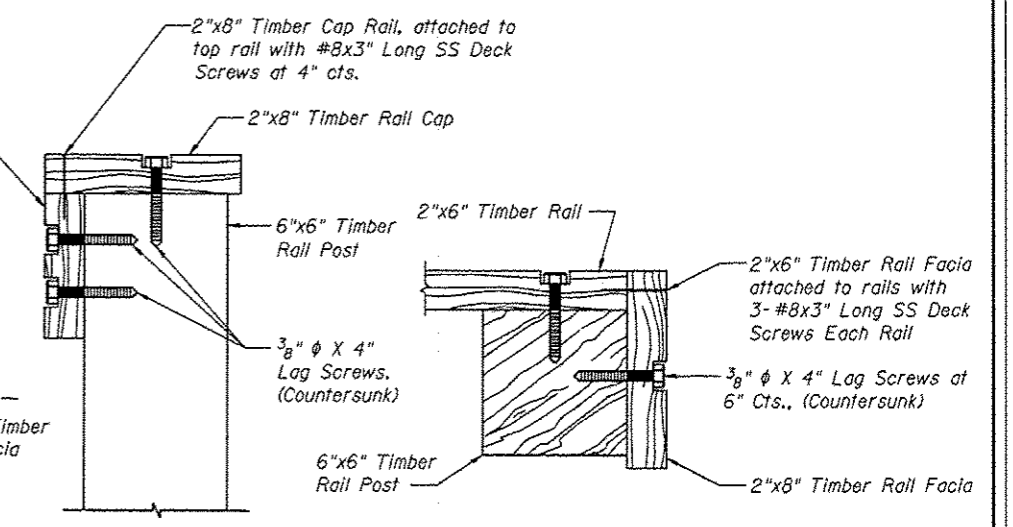
BENT PLATE



SECTION A-A



ELEVATION
(Northeast Wood Rail)



SECTION B-B

SECTION C-C

Notes:

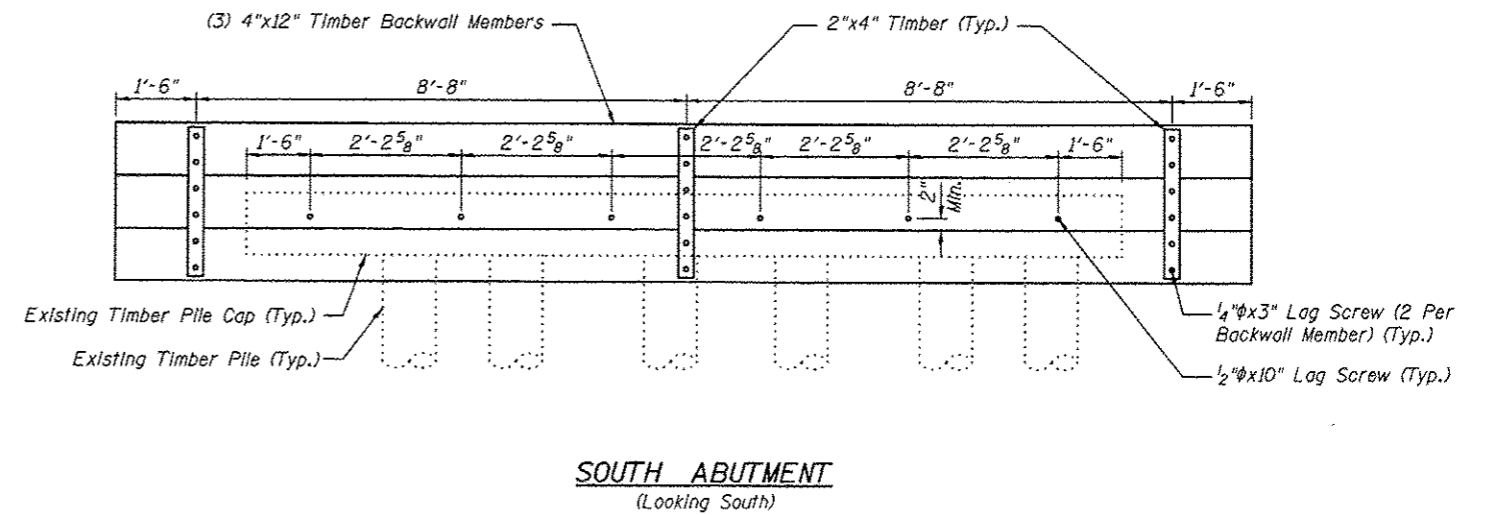
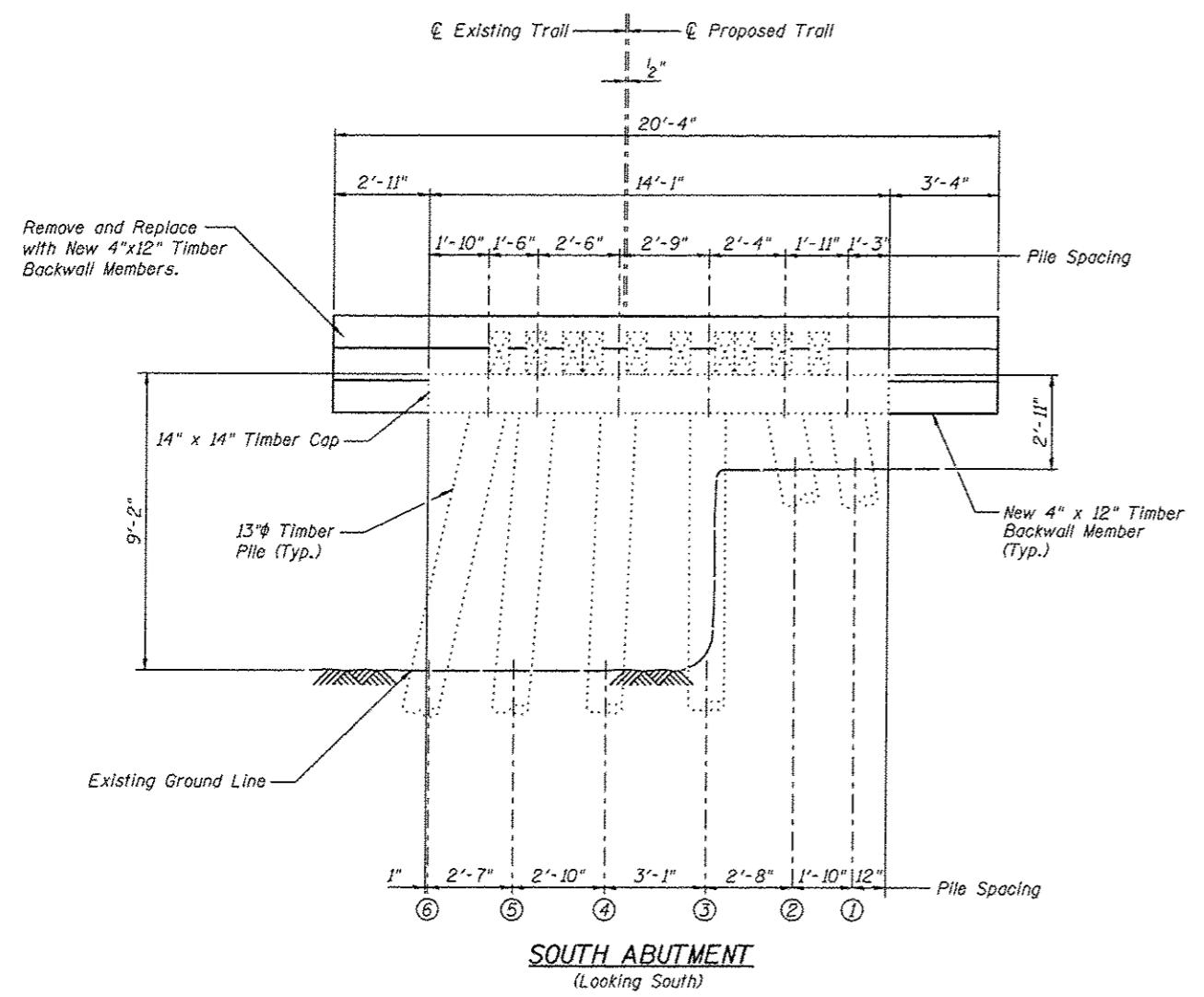
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

WOOD RAIL DETAILS		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY' BRANCH MADISON COUNTY STATION 167+25.86 STRUCTURE NO. 4	
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 937-1100 Fax: (618) 937-4541		100 North Franklin Street Chicago, Illinois 60610 Phone: (312) 542-0200 Fax: (312) 542-0241	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DGN NAME:		JOB NO. E064403 DGN. NO.	
DSN. BY: DB DATE: 10/18/12		SHEET	
DWN. BY: EER DATE: 10/18/12		186	
CHK'D: WWH DATE: 10/18/12		OF 310 SHEETS	

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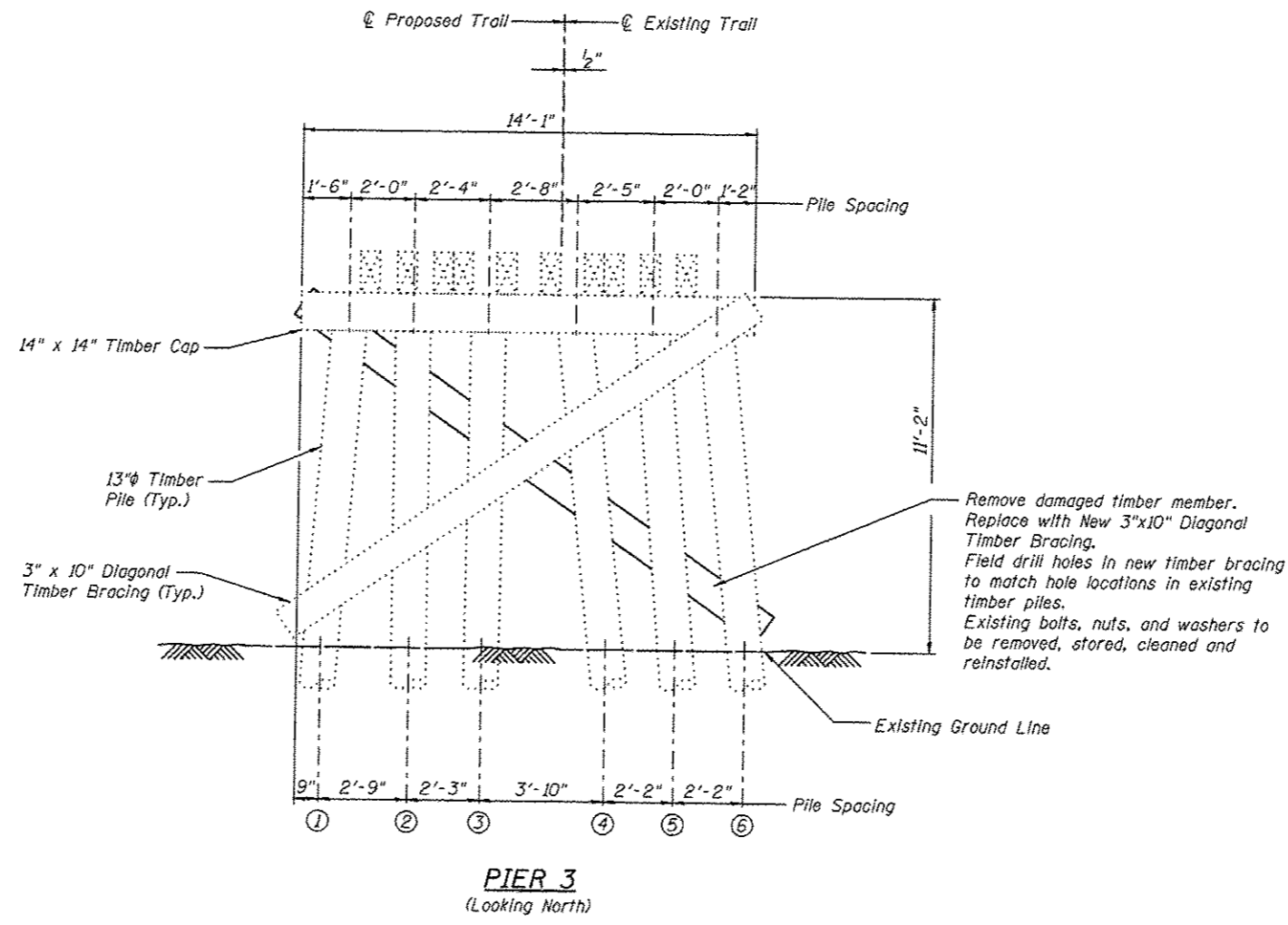
**SOUTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	250

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>JunEAU Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1025 Granite City, Illinois 62040 Phone: (618) 382-4100 Fax: (618) 382-4941</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 167+25.86 STRUCTURE NO. 4</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE. FOLLOW DIMENSIONS</p>	
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<p>JOB NO. E064403</p>		<p>DWN. BY: EER</p>	<p>DATE: 10/18/12</p>								
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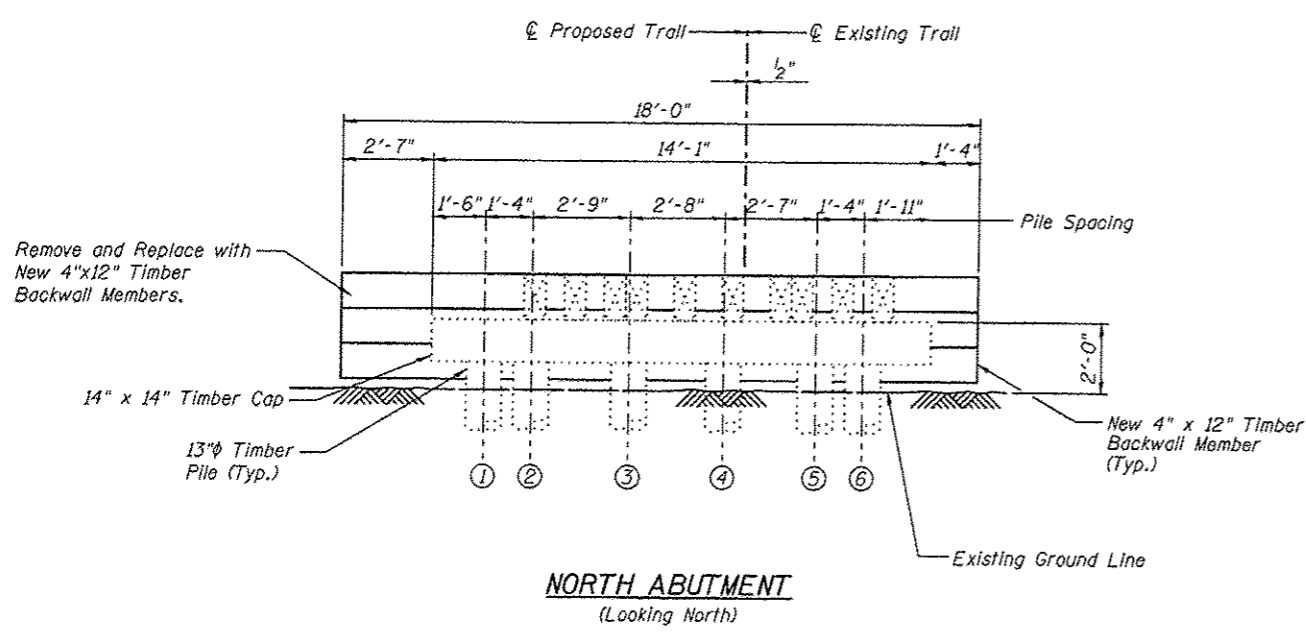
**PIER 3
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	50

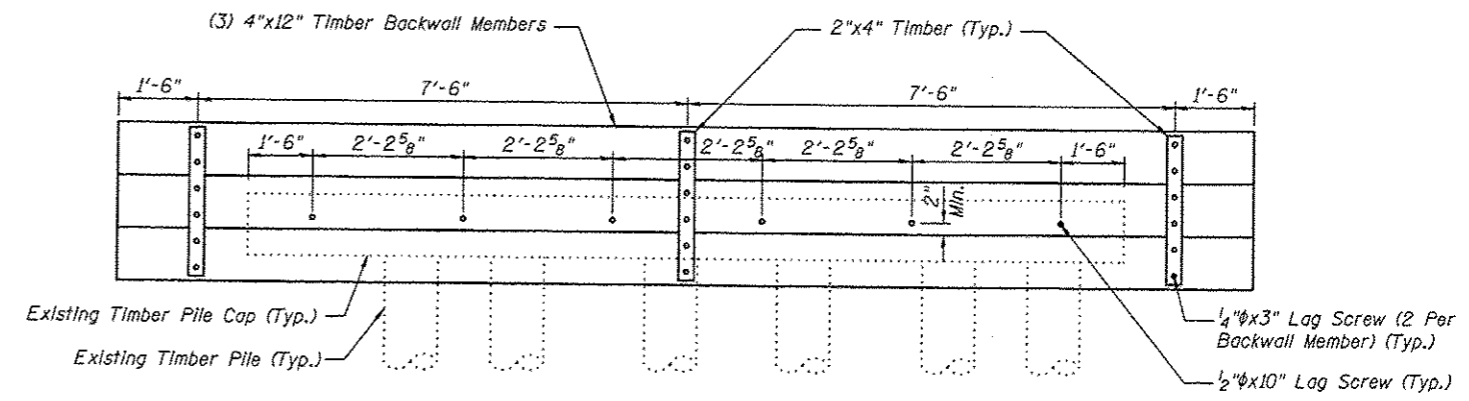
Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

 Juneau Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> 2100 State Street, P.O. Box 1325 Seattle, WA 98101-1325 Phone: (206) 465-1100 Fax: (206) 465-2541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 167+25.86 STRUCTURE NO. 4									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS								
DGN NAME:		DSN BY: DB DATE: 10/18/12	SHEET 188								
JOB NO. E064403		DGN NO.	OF 310 SHEETS								

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NORTH ABUTMENT
(Looking North)



NORTH ABUTMENT
(Looking North)

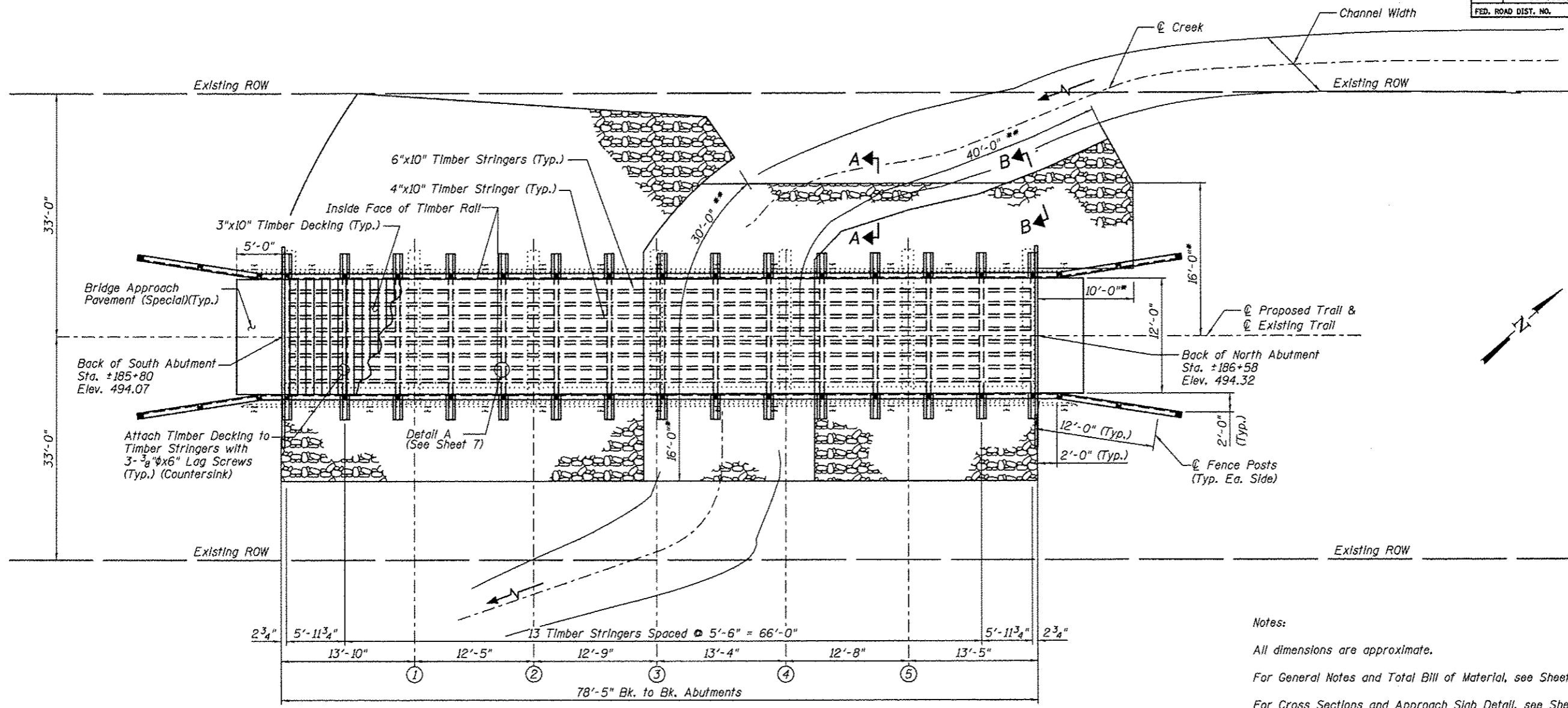
**NORTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	222

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

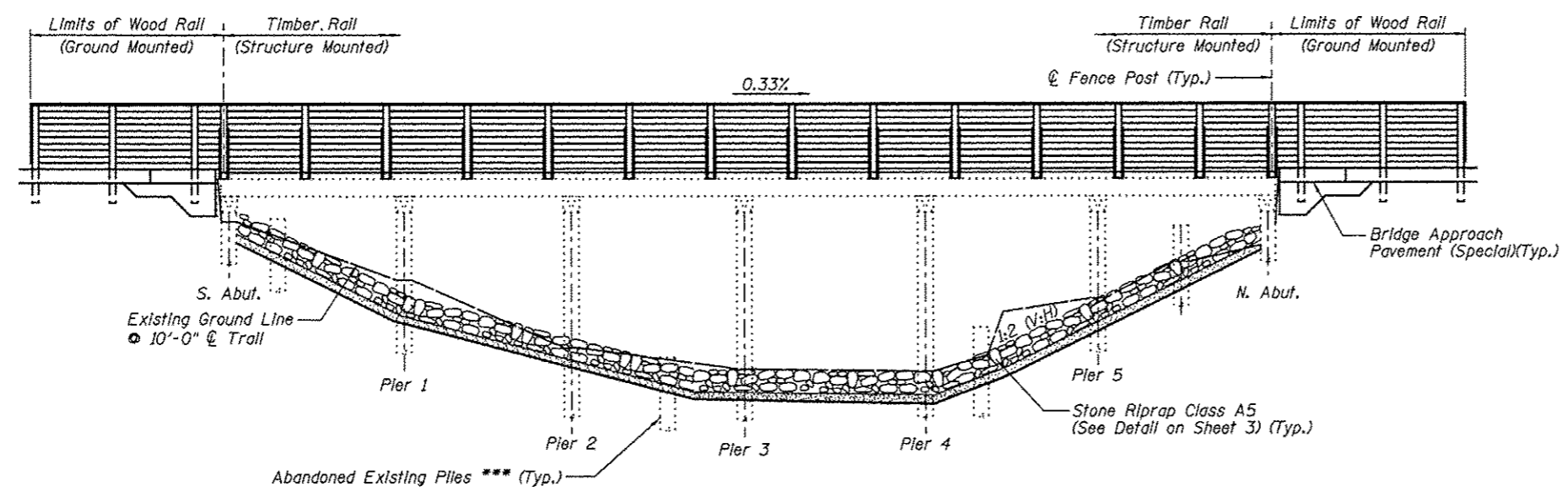
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 7100 State Street, P.O. Box 1295 Darien, CT 06820 Phone: (413) 247-1100 Fax: (413) 247-0541</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY, BRANCH MADISON COUNTY STATION 167+25.86 STRUCTURE NO. 4</p>									
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<p>CHK'D: WWH</p>		<p>DATE: 10/18/12</p>									
<p>DGN. NAME:</p>		<p>JOB NO. E064403 DGN. NO.</p>									
<p>Sheet 9 of 9</p>		<p>SHEET 189 OF 310 SHEETS</p>									

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PLAN

Notes:
 All dimensions are approximate.
 For General Notes and Total Bill of Material, see Sheet No. 2
 For Cross Sections and Approach Slab Detail, see Sheet No. 3
 For Section A-A & B-B and Stone Riprap Details, see Sheet No. 3
 All new timber members shown shall be included in the pay item Treated Timber.



ELEVATION
(Looking West)

* Limits of Stone Riprap
 ** Limits of Stone Riprap, measured along Toe of Slope.
 *** Abandoned Existing Piles shall be removed to at least 1 foot below the proposed ground surface

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon 11/2/13
 WESLEY W. HERNDON, S.E. DATE

				PLAN & ELEVATION GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5	
REVISIONS NO. DATE BY REMARKS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12				SHEET 190	
DWN. BY: EER DATE: 10/18/12					
CHK'D: WWH DATE: 10/18/12					
DGN NAME:				JOB NO. E064403 DGN. NO.	

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	191
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	58		58
Tree Removal, Acres	Acres		0.01	0.01
Channel Excavation	Cu. Yd.		175	175
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A5	Sq. Yd.		490	490
Filter Fabric	Sq. Yd.		490	490
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Treated Timber	F.B.M.	8000	791	8791
Stainless Steel Bands	Foot		21	21

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.


Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

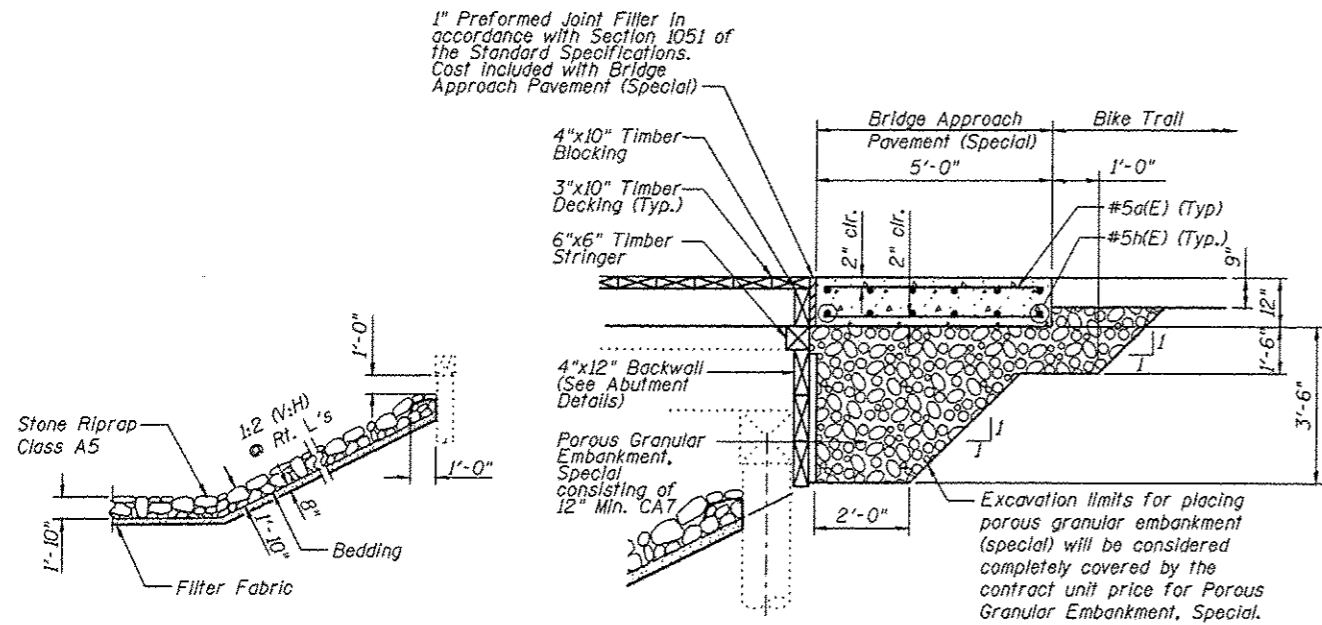
All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

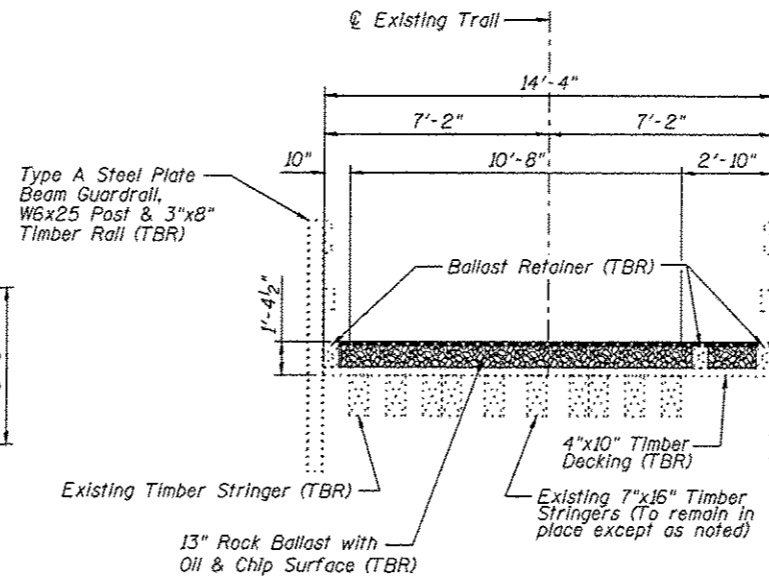
All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 125 Granite City, Illinois 62040 Phone: (618) 451-1100 Fax: (618) 451-5541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5									
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JOB NO. E064403		DGN NO.	SHEET 191 OF 310 SHEETS								



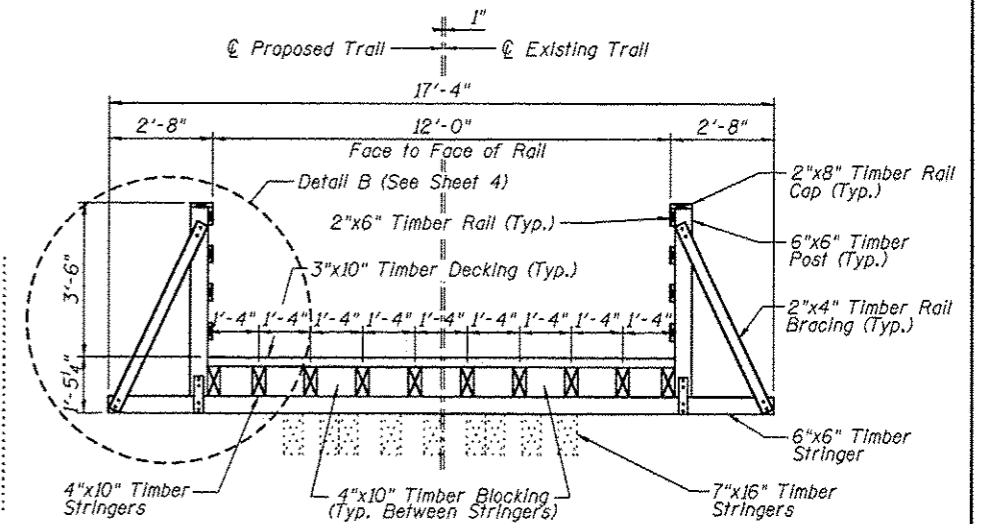
STONE RIPRAP DETAIL

BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



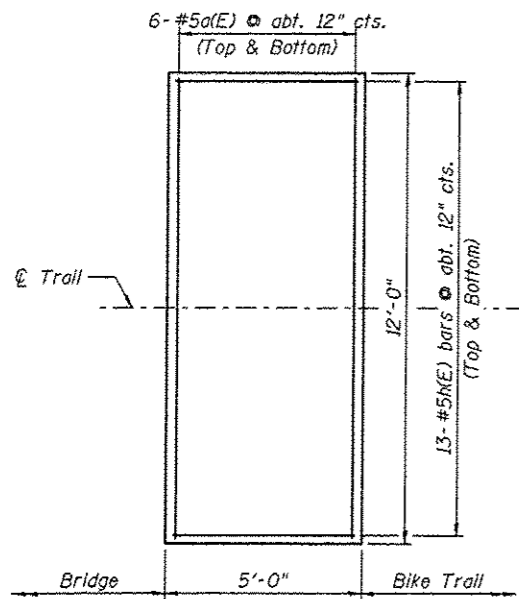
EXISTING CROSS SECTION

(Looking North)



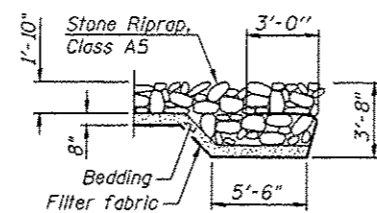
PROPOSED CROSS SECTION

(Looking North)

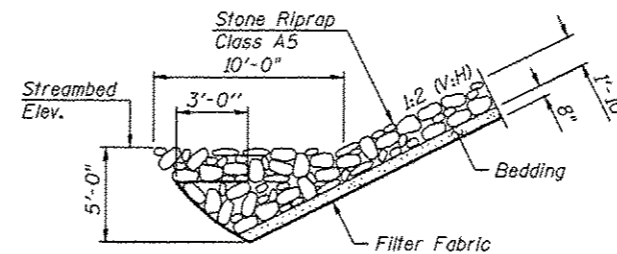


BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN

Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A



SECTION B-B

BRIDGE APPROACH BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

Note:

All dimensions are approximate.

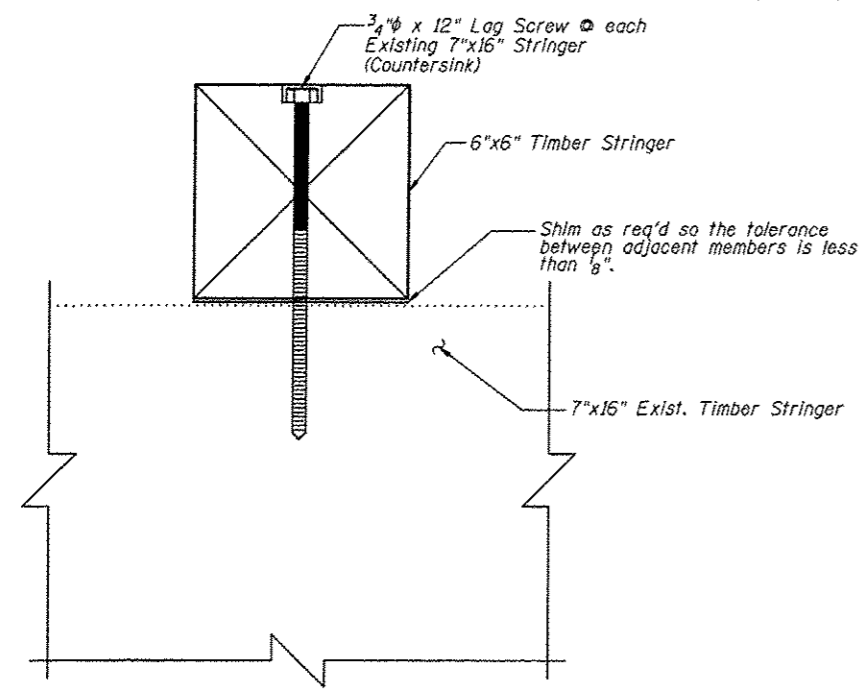
For Treated Timber quantity, see Sheet No. 4

All new timber members shown shall be included in the pay item Treated Timber.

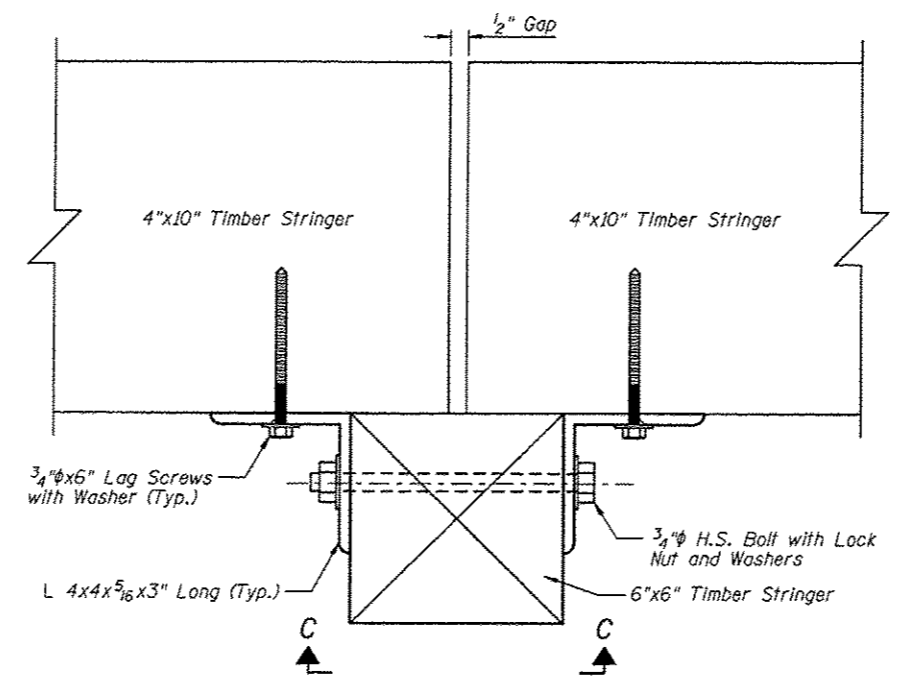
All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3"x8" Timber Rail and 7"x16" Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

CROSS SECTIONS

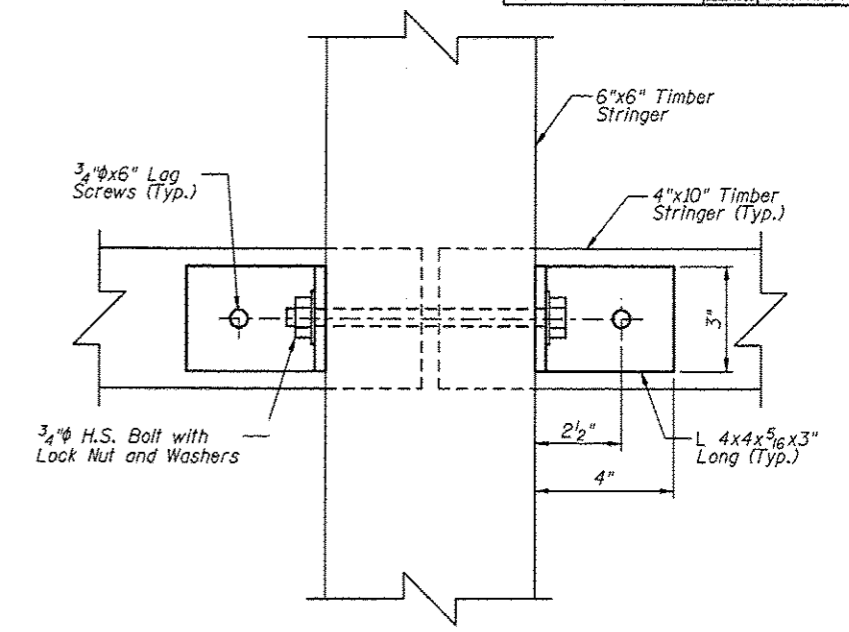
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 7100 State Street, P.O. Box 1395 Granite City, Illinois 62040 Phone: (618) 371-1100 Fax: (618) 371-5541</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5</p>									
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<p>DGN NO.</p>		<p>CHK'D: WWH</p>	<p>DATE: 10/18/12</p>								
<p>OF 810 SHEETS</p>		<p>SHEET 192</p>									



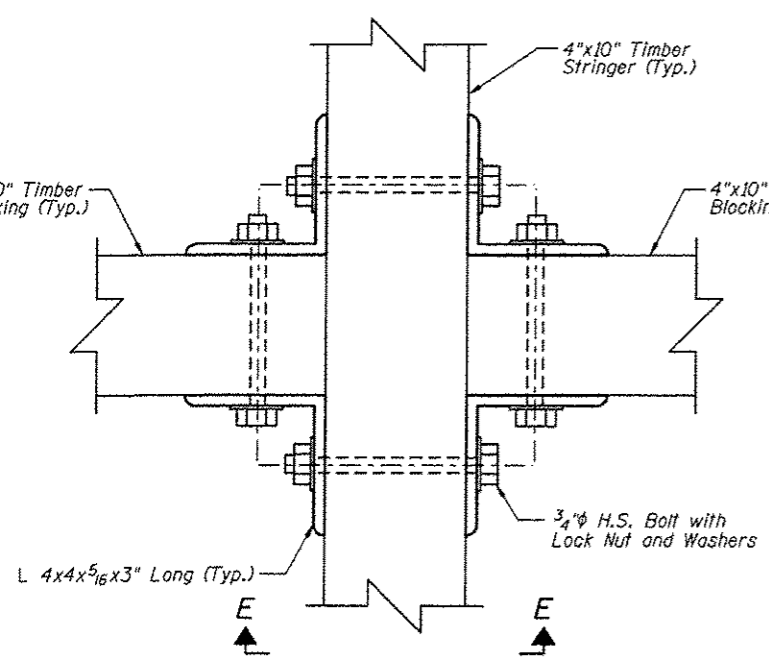
SECTION A-A



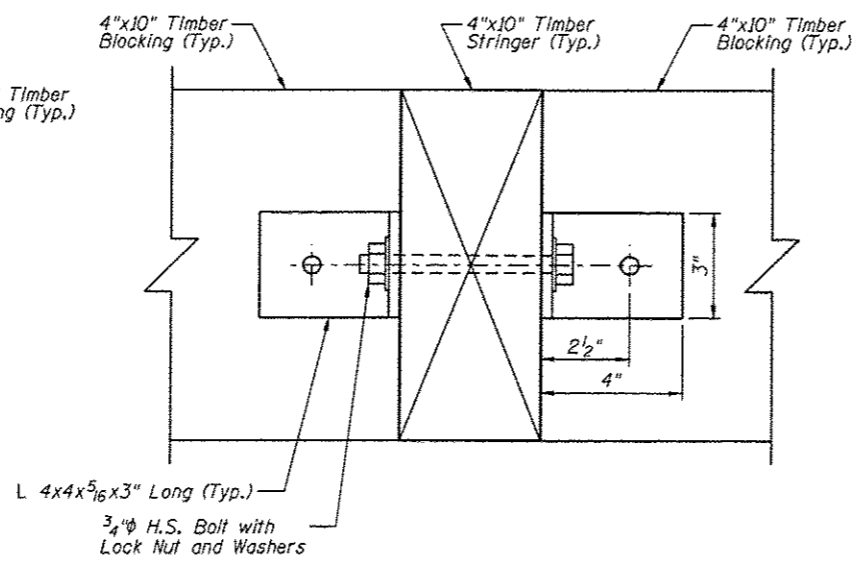
SECTION B-B
(Section G-G Similar)



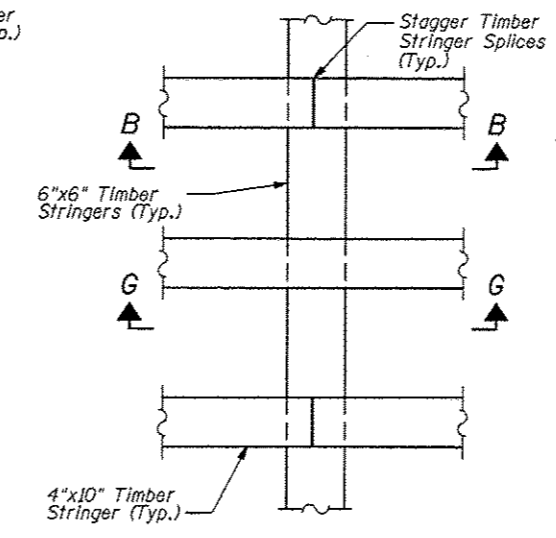
SECTION C-C



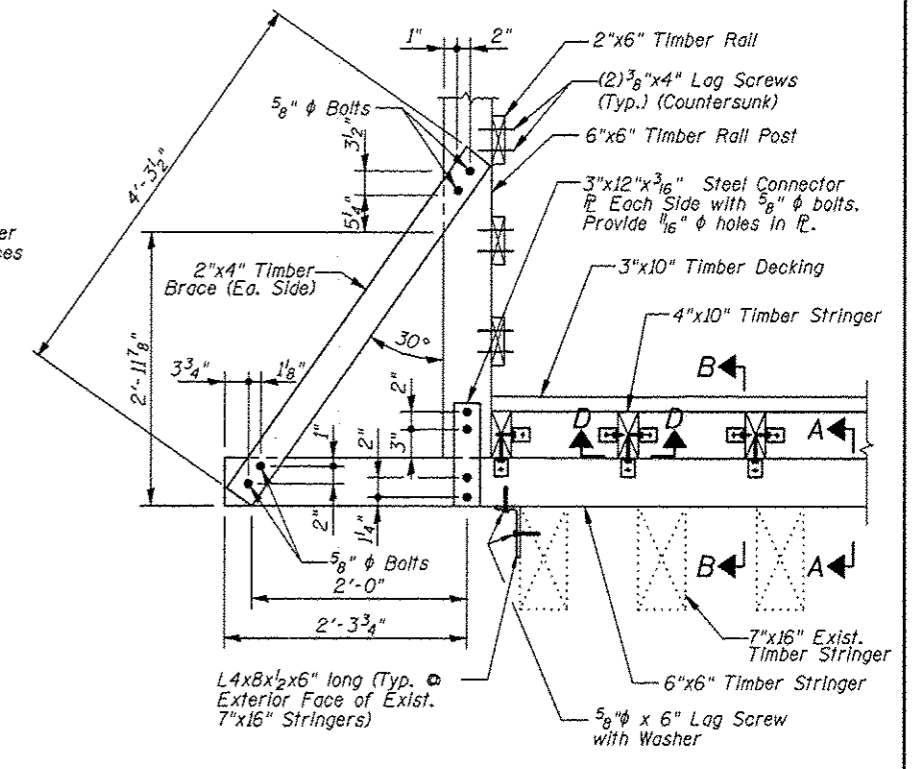
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

**SUPERSTRUCTURE
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	8000

Note:

All new timber members shown shall be included in the pay item Treated Timber.

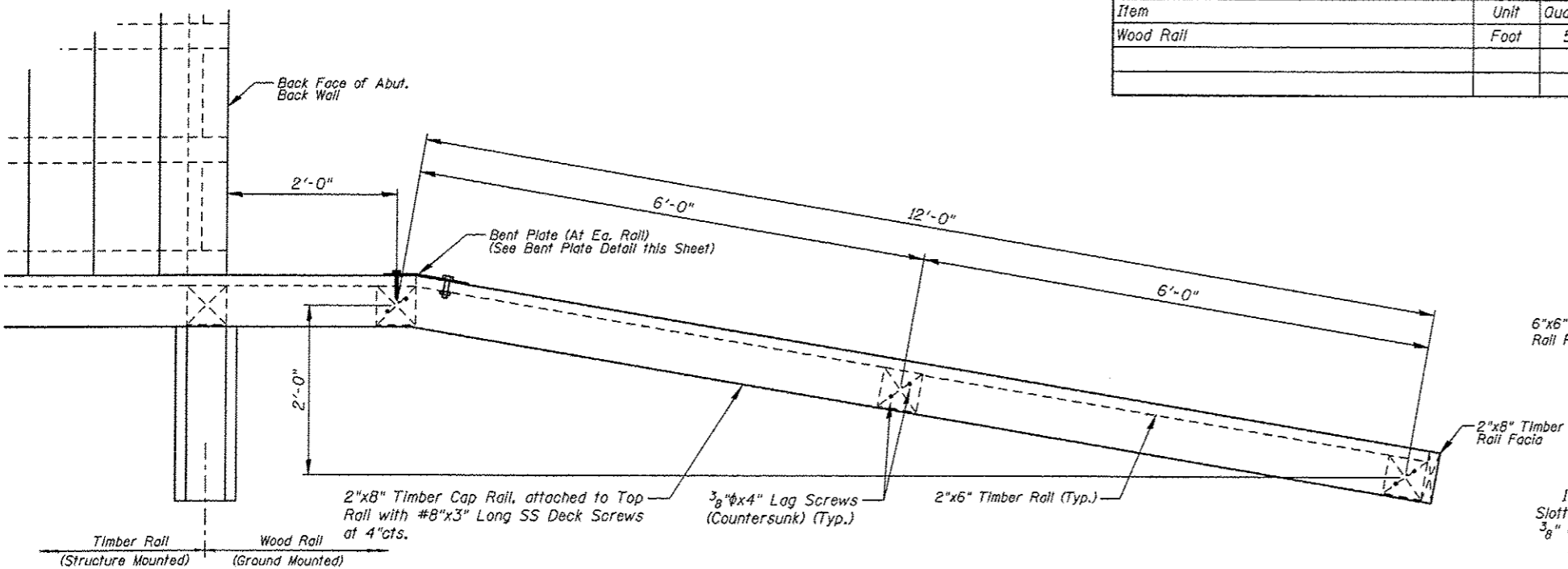
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Oneida, IL 61764-0225 Phone: (312) 387-1100 Fax: (312) 387-0911		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 DWN. BY: EER DATE: 10/18/12 CHK'D: WWH DATE: 10/18/12		SHEET 193 OF 310 SHEETS	
DGN NAME:		JOB NO. E064403 DGN. NO.	

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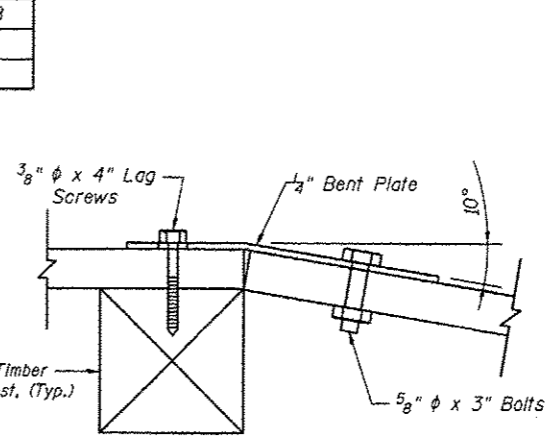
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 97433			

WOOD RAIL BILL OF MATERIAL

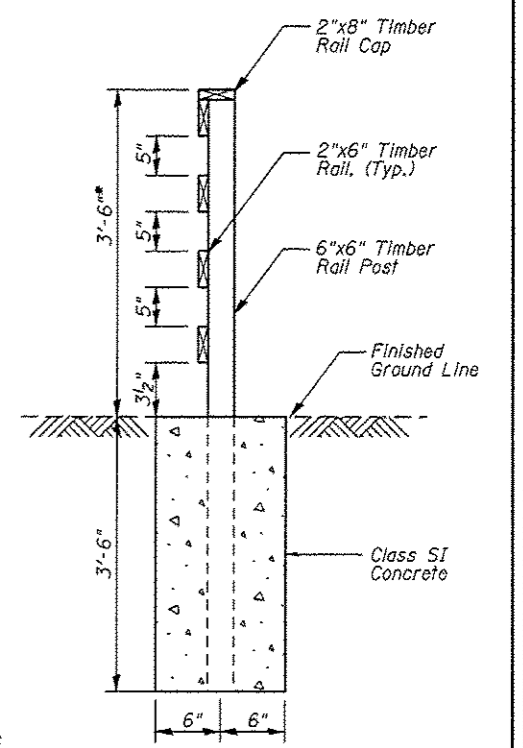
Item	Unit	Quantity
Wood Rail	Foot	58



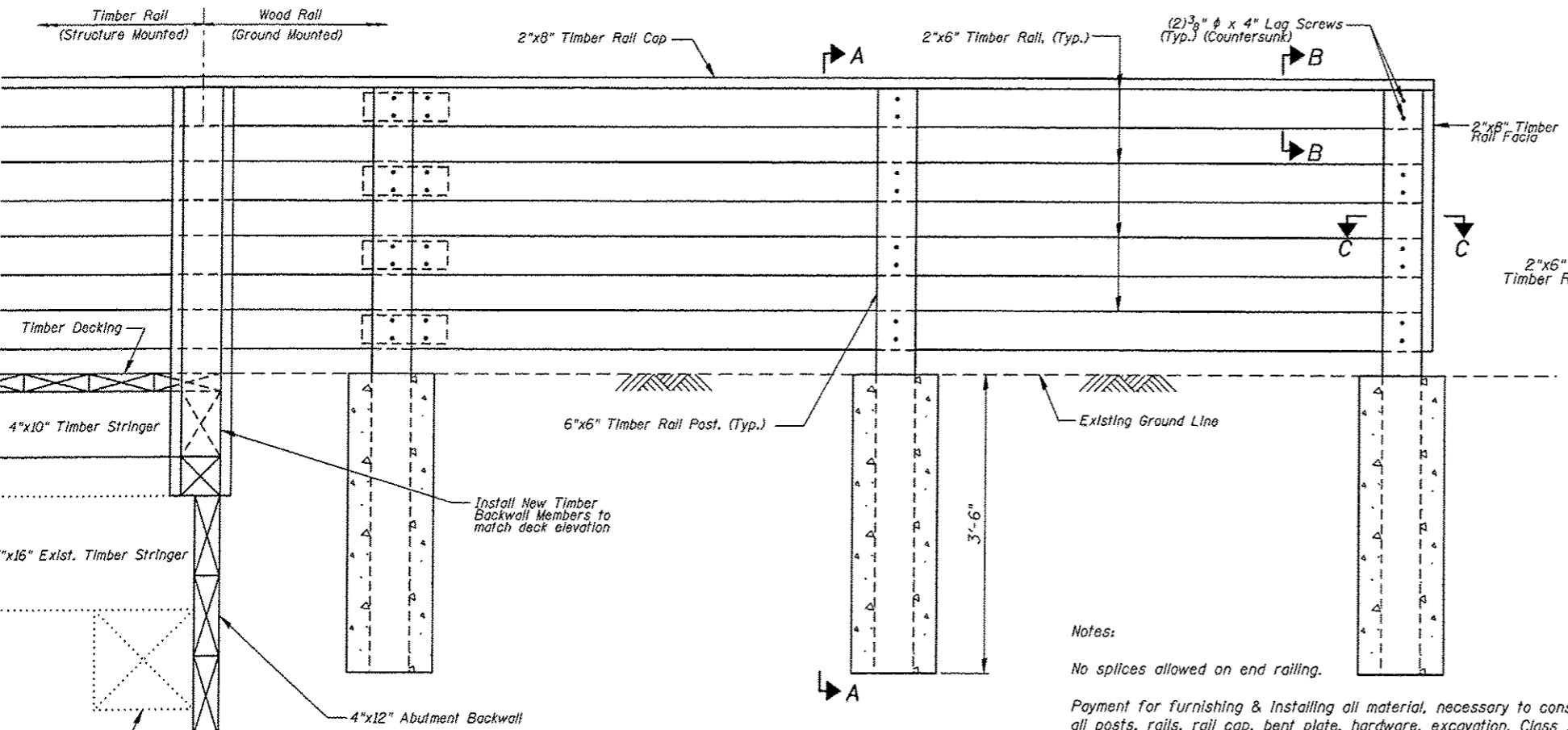
PLAN



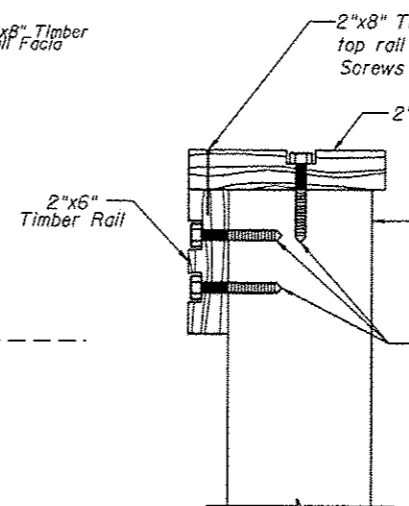
BENT PLATE



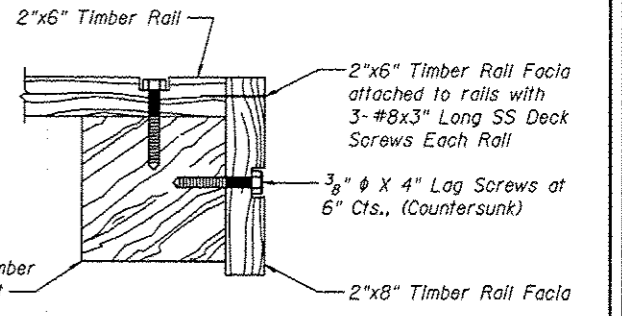
SECTION A-A



ELEVATION



SECTION B-B



SECTION C-C

Notes:

No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

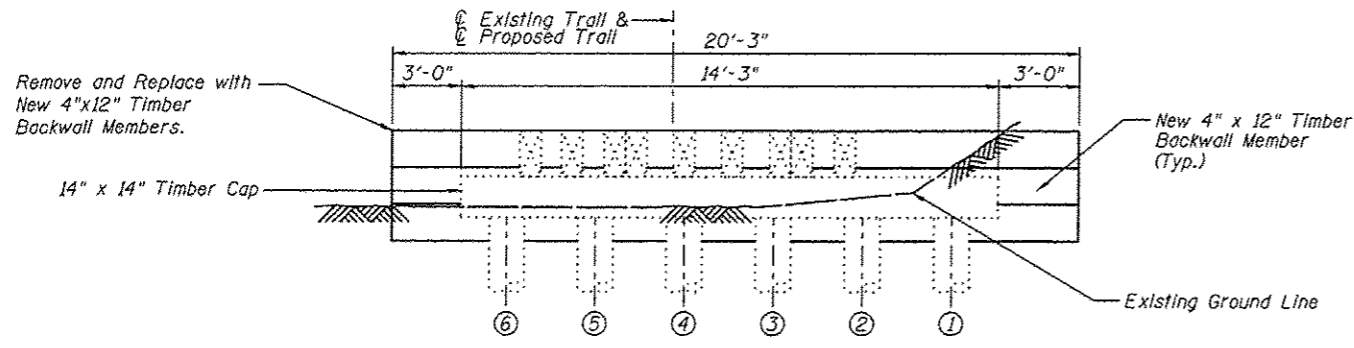
* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

REVISIONS				SCALE:	
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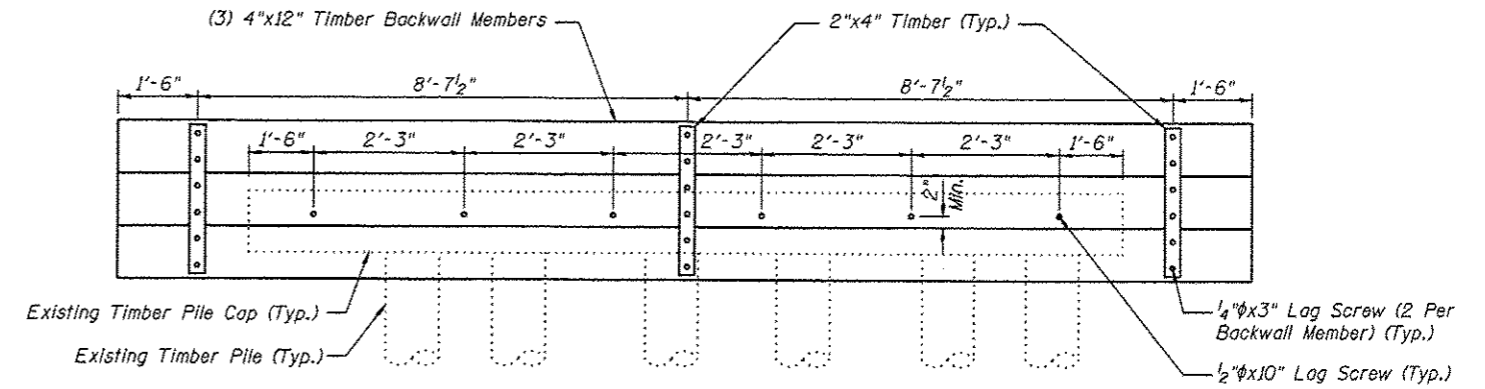
Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1125
Madison, Wis. 53703-1125
Phone: (608) 261-1102 Fax: (608) 261-5641

GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 186+18.86
STRUCTURE NO. 5

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SOUTH ABUTMENT
(Looking South)



SOUTH ABUTMENT
(Looking North)

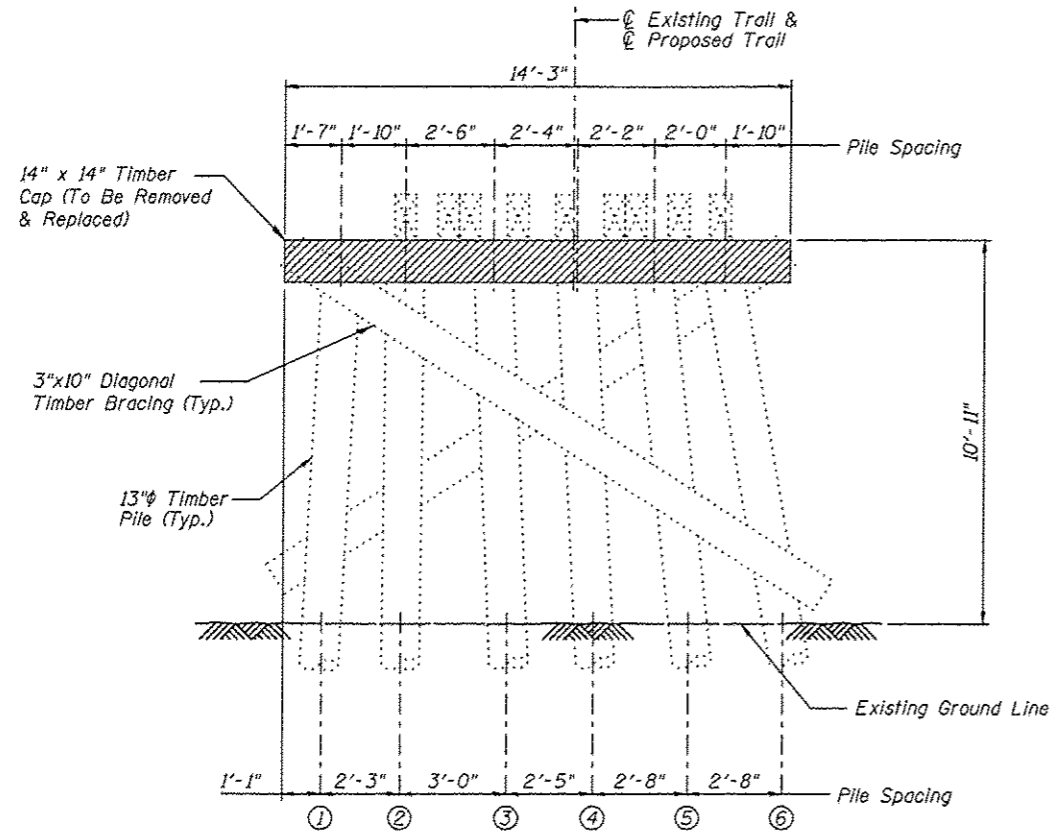
**SOUTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	249

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1223 Seattle, WA 98101-1223 Phone: (206) 465-1100 Fax: (206) 465-1101		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DGN NAME:		DSN BY: DB DATE: 10/18/12	SHEET 195
JOB NO. E064403		DWN BY: EER DATE: 10/18/12	OF 310 SHEETS
DGN NO.		CHK'D: WWH DATE: 10/18/12	DGN NO.

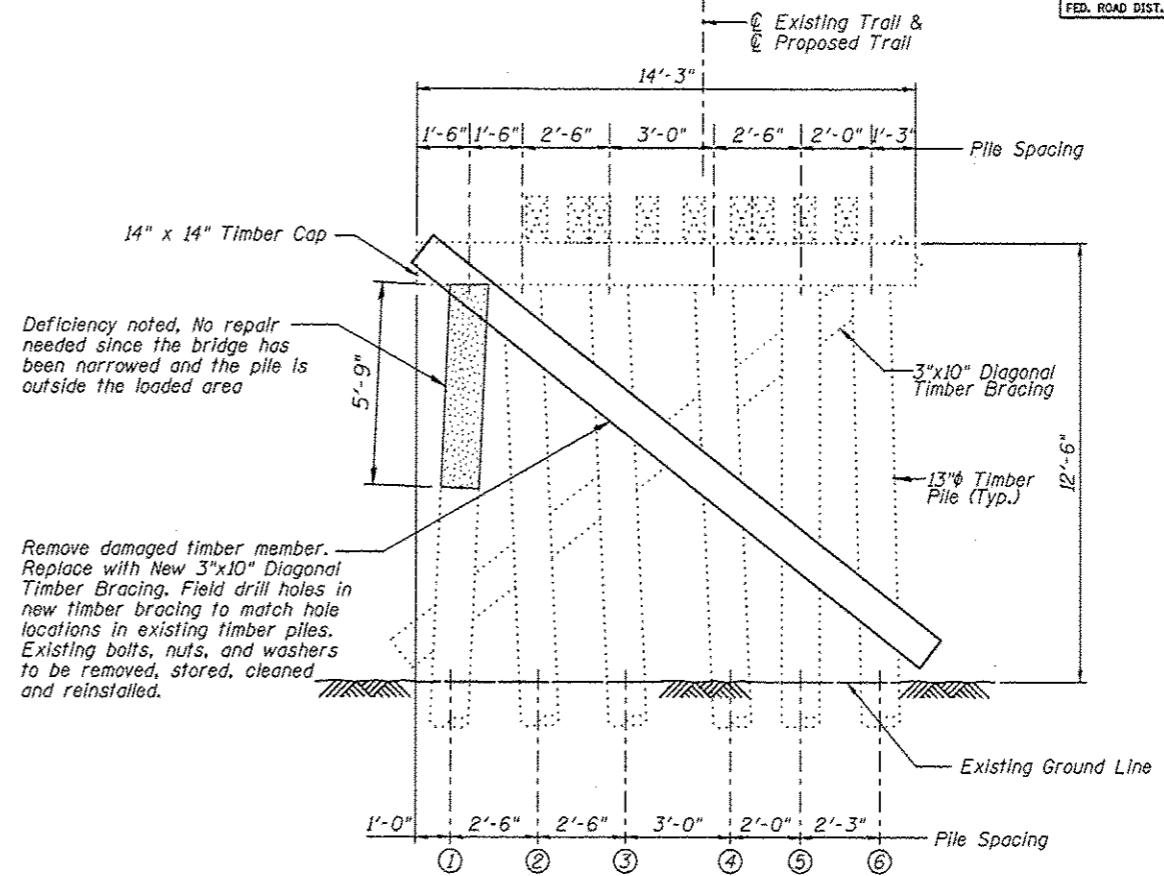
10-03-11 AM 12/19/2012 M:\STRUCTURE\064403 IMCT Heritage Trail\Drawings\Structure *05\Proposed Structure 107-2012\061895 S Abut & Pier L.dgn



PIER 2
(Looking North)

**PIER 2
BILL OF MATERIAL**

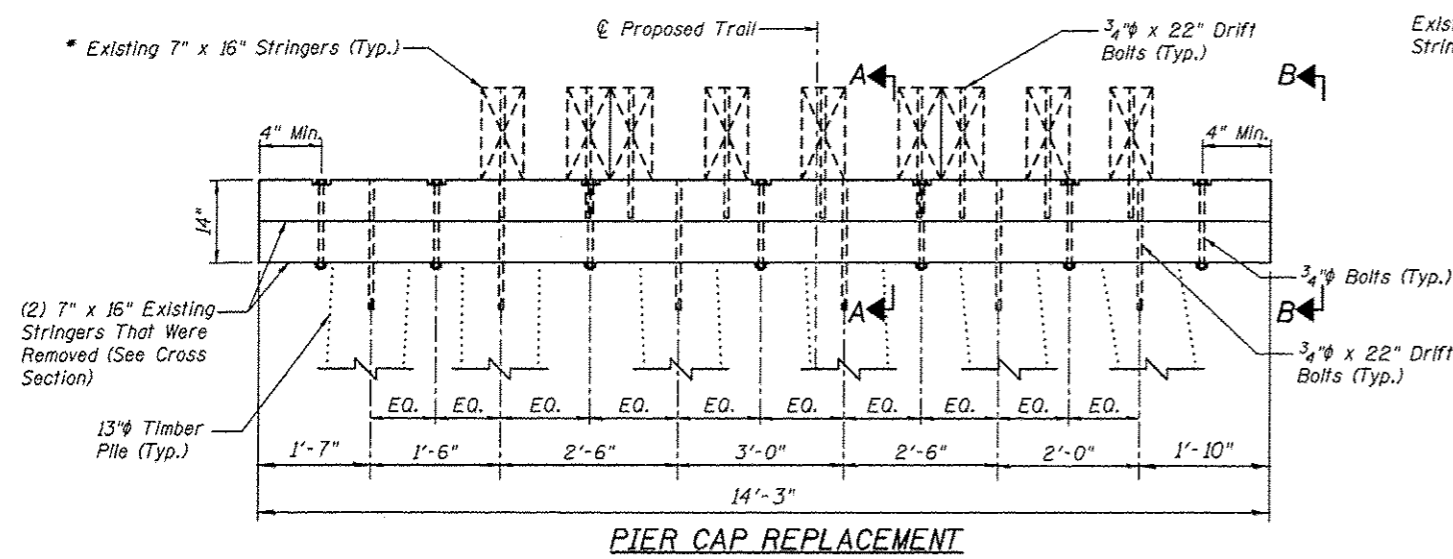
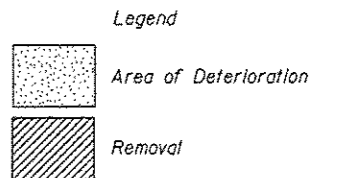
Item	Unit	Quantity
Treated Timber	F.B.M.	266



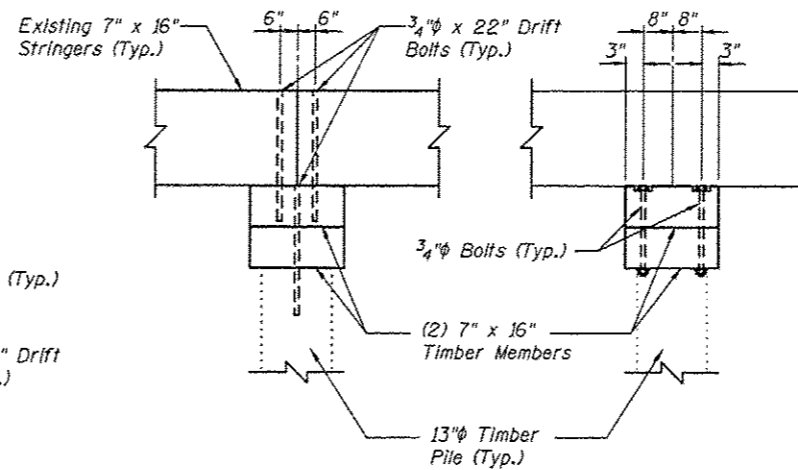
PIER 3
(Looking North)

**PIER 3
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	50



PIER CAP REPLACEMENT



SECTION A-A

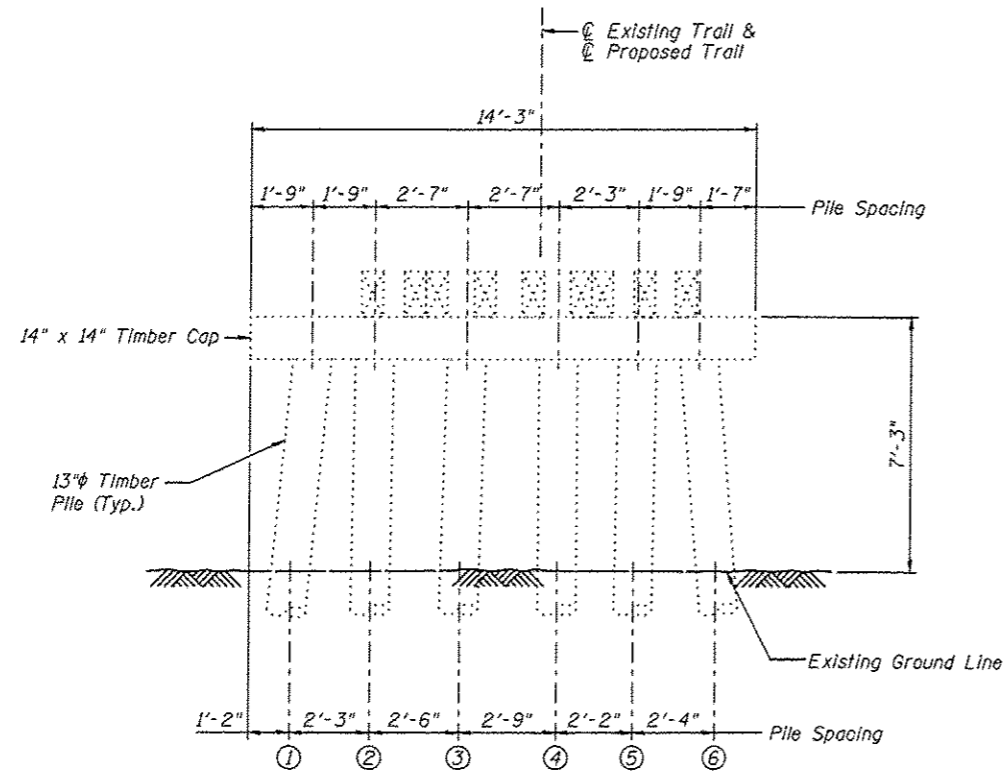
SECTION B-B

Notes:
 All dimensions are approximate.
 Bolts, nuts and washers for the Timber Beam Repair shall be hot-dipped galvanized.
 All new timber members shown shall be included in the pay item Treated Timber.

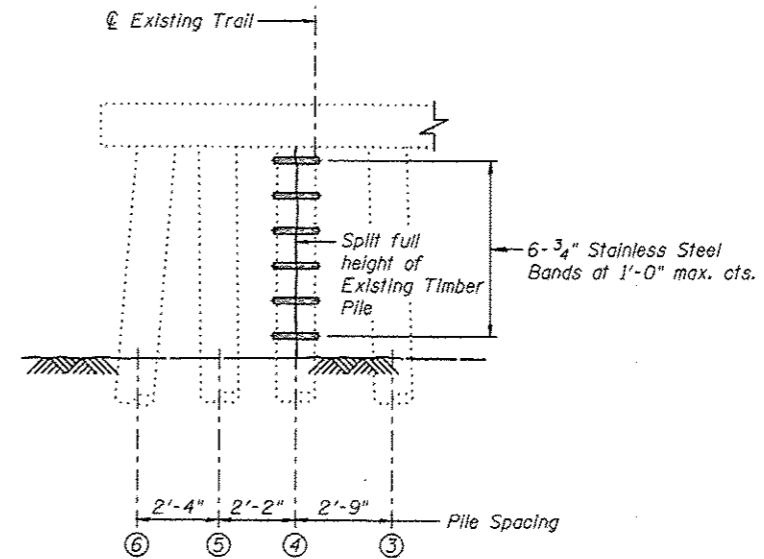
* The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber

PIER 2 & PIER 3 DETAILS CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Grand Rapids, MI 49504-0325 Phone: (616) 941-1100 Fax: (616) 941-0911		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 SHEET		196	
DWN. BY: EER DATE: 10/18/12		CHRT'D: WWH DATE: 10/18/12	
DGN NAME:		JOB NO. E064403 DGN. NO.	

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PIER 5
(Looking North)



PARTIAL PIER 5
(Looking South)

Legend

— Split


PIER 5
BILL OF MATERIAL

Item	Unit	Quantity
Stainless Steel Band	Lin Ft	21

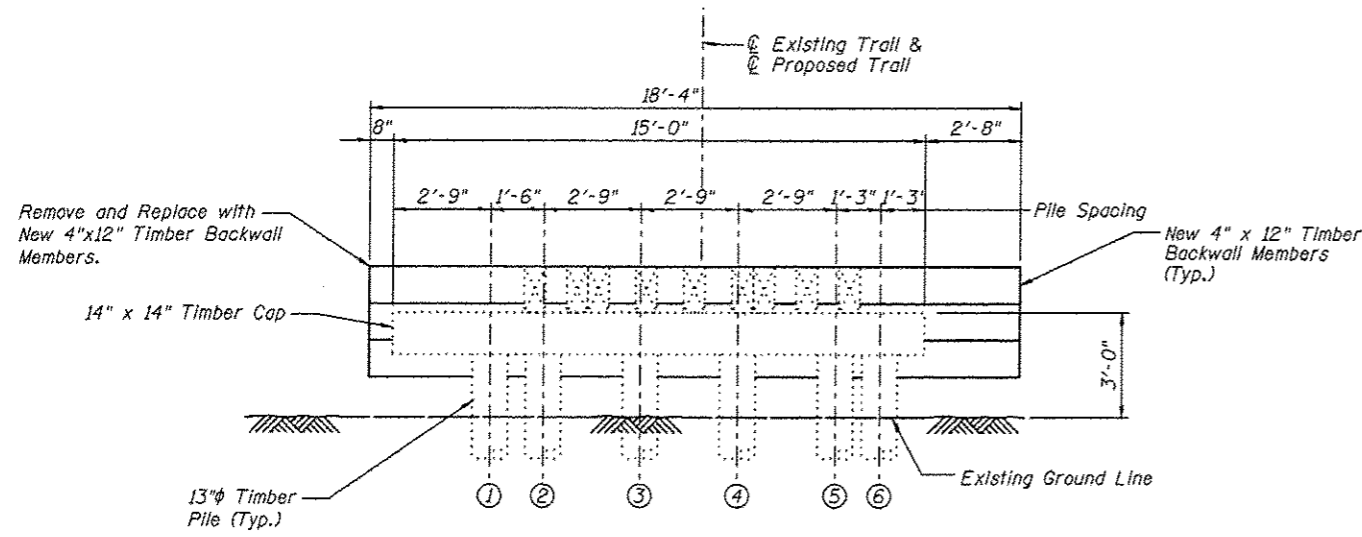
Notes:

All dimensions are approximate.

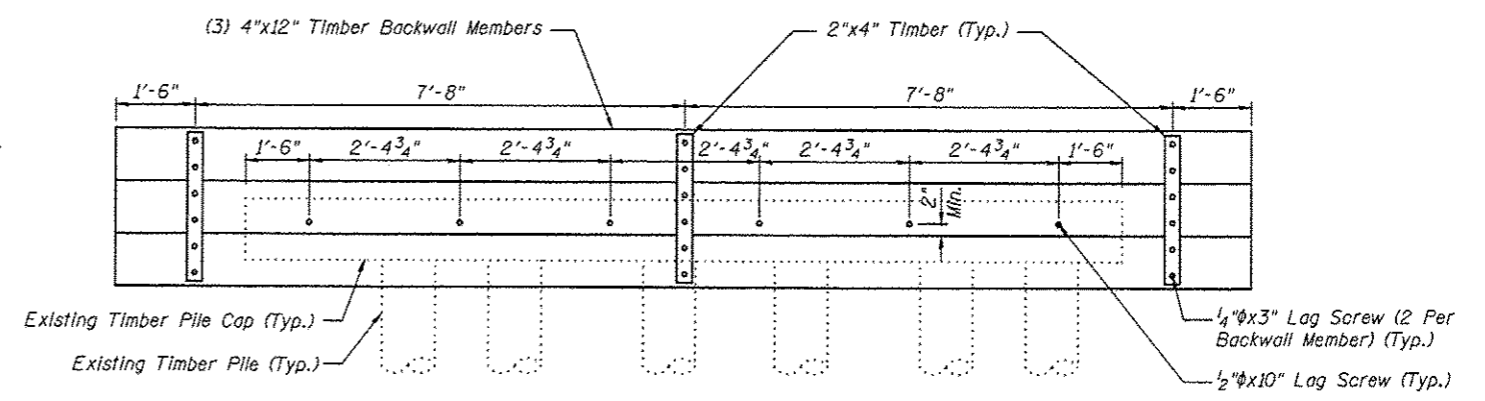
The stainless steel bands shall be stainless steel with a minimum width of 3/4" and a minimum thickness of 0.030" and shall be installed per the manufacturer's recommendation. Product data shall be submitted to the Engineer for approval prior to installation.

 Juneau Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> 5100 State Street, P.O. Box 1325 Granite City, Illinois 62540 Phone: (618) 511-1100 Fax: (618) 511-0941		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5													
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS									SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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JOB NO. E064403		DGN NO.	SHEET 197 OF 310 RHTS												

10/03/17 AM 12/19/2012 W:\STRUCTURE\064403 INCT Heritage Trail\Drawings\Structure #05\Proposed Structure (07-2012)\0810197 Pier 4 & Pier 5.dgn



NORTH ABUTMENT
(Looking North)



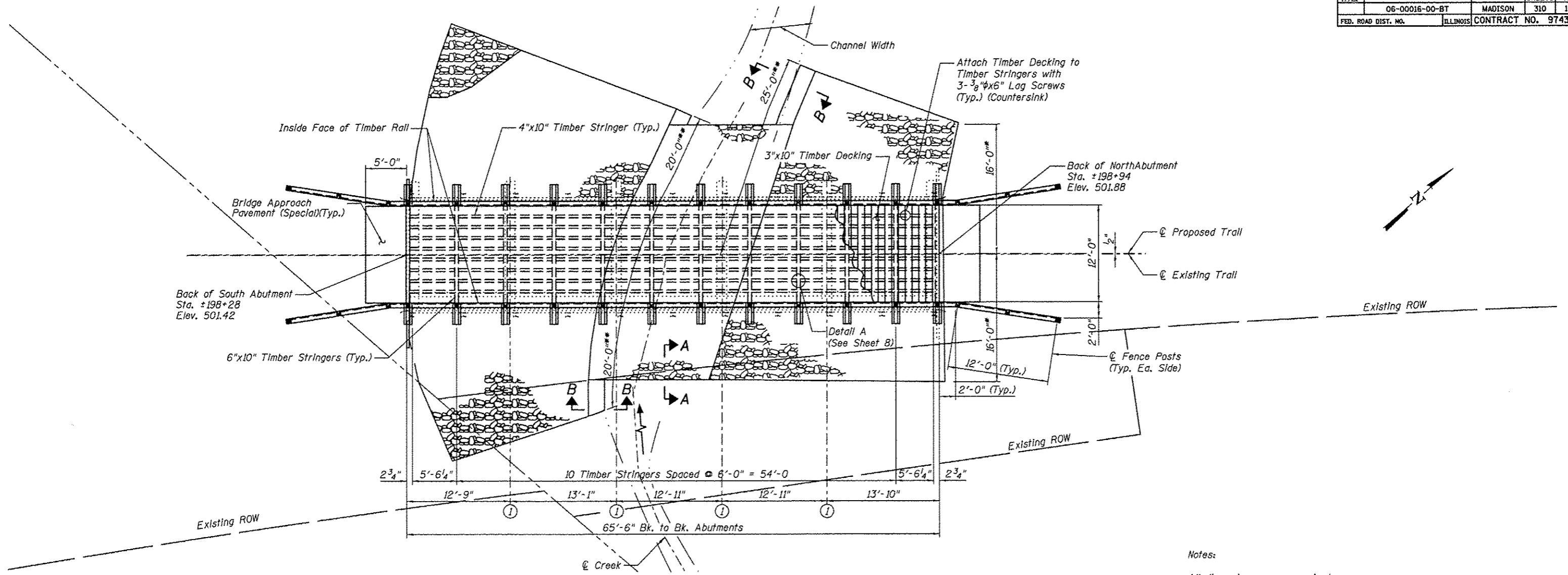
NORTH ABUTMENT
(Looking South)

**NORTH ABUTMENT
BILL OF MATERIAL**

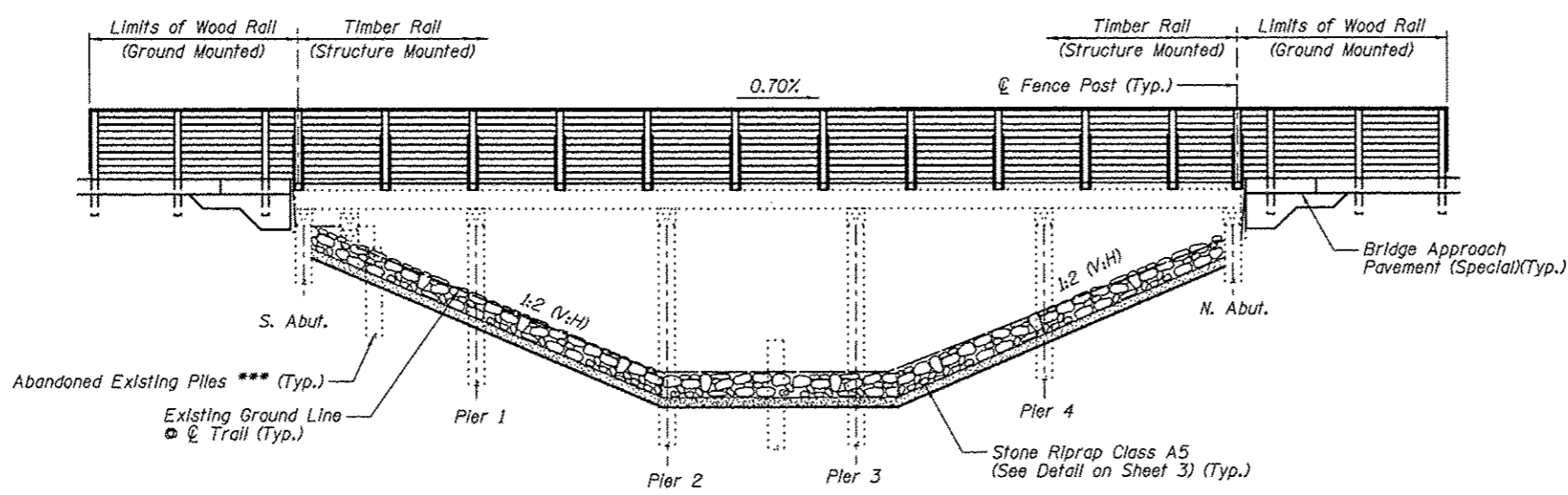
Item	Unit	Quantity
Treated Timber	F.B.M.	226

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 3100 Shea Street, P.O. Box 1325 Orland Park, Illinois 60467 Phone: (630) 581-1100 Fax: (630) 581-1101</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 186+18.86 STRUCTURE NO. 5</p>									
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<p>DGN NAME:</p>		<p>DSN. BY: DB DATE: 10/18/12 SHEET DWN. BY: EER DATE: 10/18/12 198 CHK'D: WWH DATE: 10/18/12</p>									
<p>JOB NO. E064403</p>		<p>DGN. NO. OF 810 SHTS</p>									



PLAN



ELEVATION
(Looking West)

Notes:
 All dimensions are approximate.
 For General Notes and Total Bill of Material, see Sheet No. 2
 For Cross Sections and Approach Slab Detail, see Sheet No. 3
 For Section A-A & B-B and Stone Riprap Details, see Sheet No. 3
 All new timber members shown shall be included in the pay item Treated Timber.

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

Wesley W. Herndon, S.E. 11/2/13
 DATE



Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1025 Merrill, WI 53450-1025 Phone: (414) 224-1400 Fax: (414) 224-9441		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+54.27 STRUCTURE NO. 6	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12		SHEET: 199	
DWN. BY: EER DATE: 10/18/12		OF 310 SHTS	
CHK'D: WWH DATE: 10/18/12		DGN NAME:	
JOB NO. E064403		DGN. NO.	

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* Limits of Stone Riprap
 ** Limits of Stone Riprap, measured along Toe of Slope.
 *** Abandoned Existing Piles shall be removed to at least 1 foot below the proposed ground surface

P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	200
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long as may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS


f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each	1		1
Wood Rail	Foot	58		58
Tree Removal, Acres	Acres		0.06	0.06
Channel Excavation	Cu. Yd.		110	110
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A5	Sq. Yd.		305	305
Filter Fabric	Sq. Yd.		305	305
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Treated Timber	F.B.M.	6620	518	7138

GENERAL NOTES

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Danville, IL 61832-1225 Phone: (618) 467-1100 Fax: (618) 467-5541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+54.27 STRUCTURE NO. 6																	
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