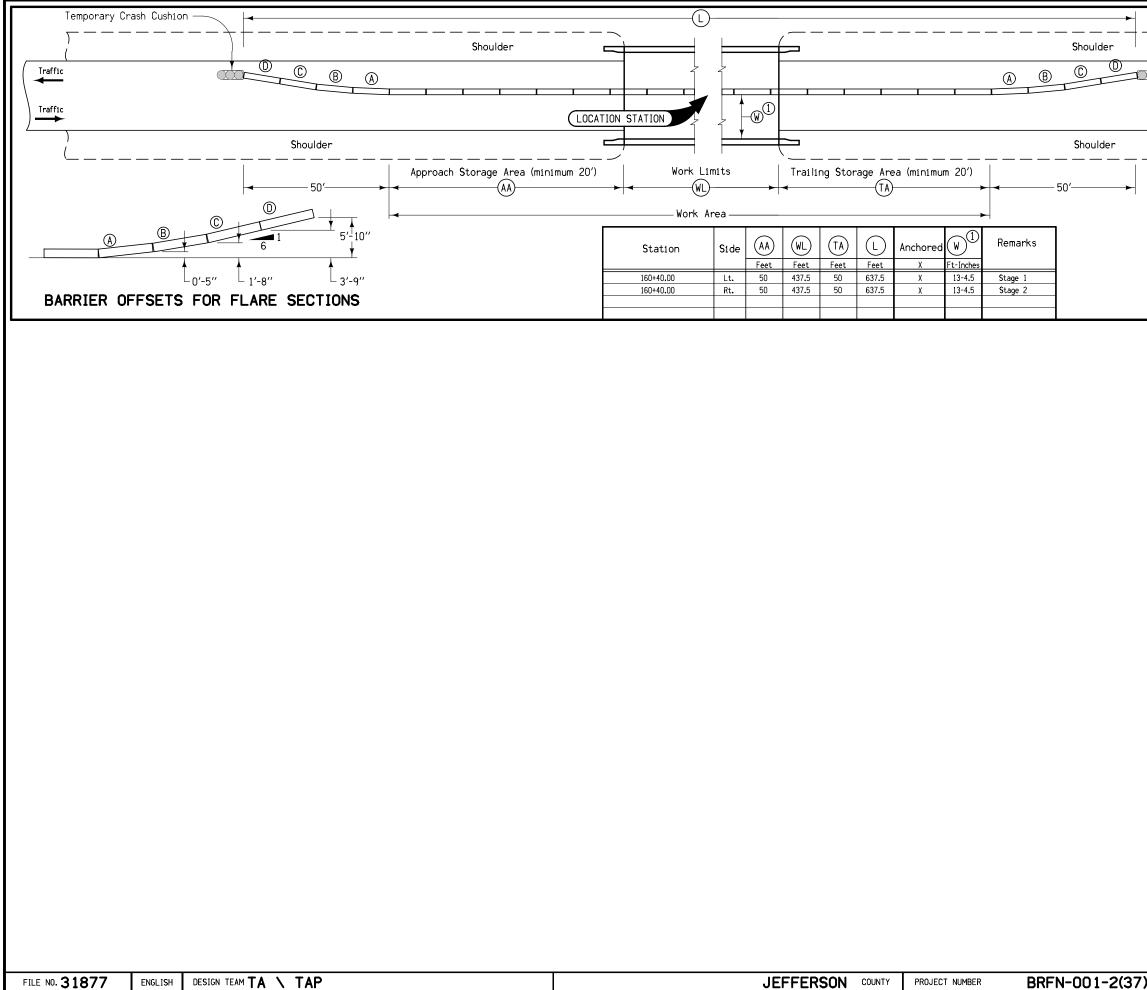
FILE NO.	31877	ENGLISH	DESIGN TEAM TA 🔪 TAP	JEFFERSON COUNTY	PROJECT NUMBER	BRFN-001-2(37)-
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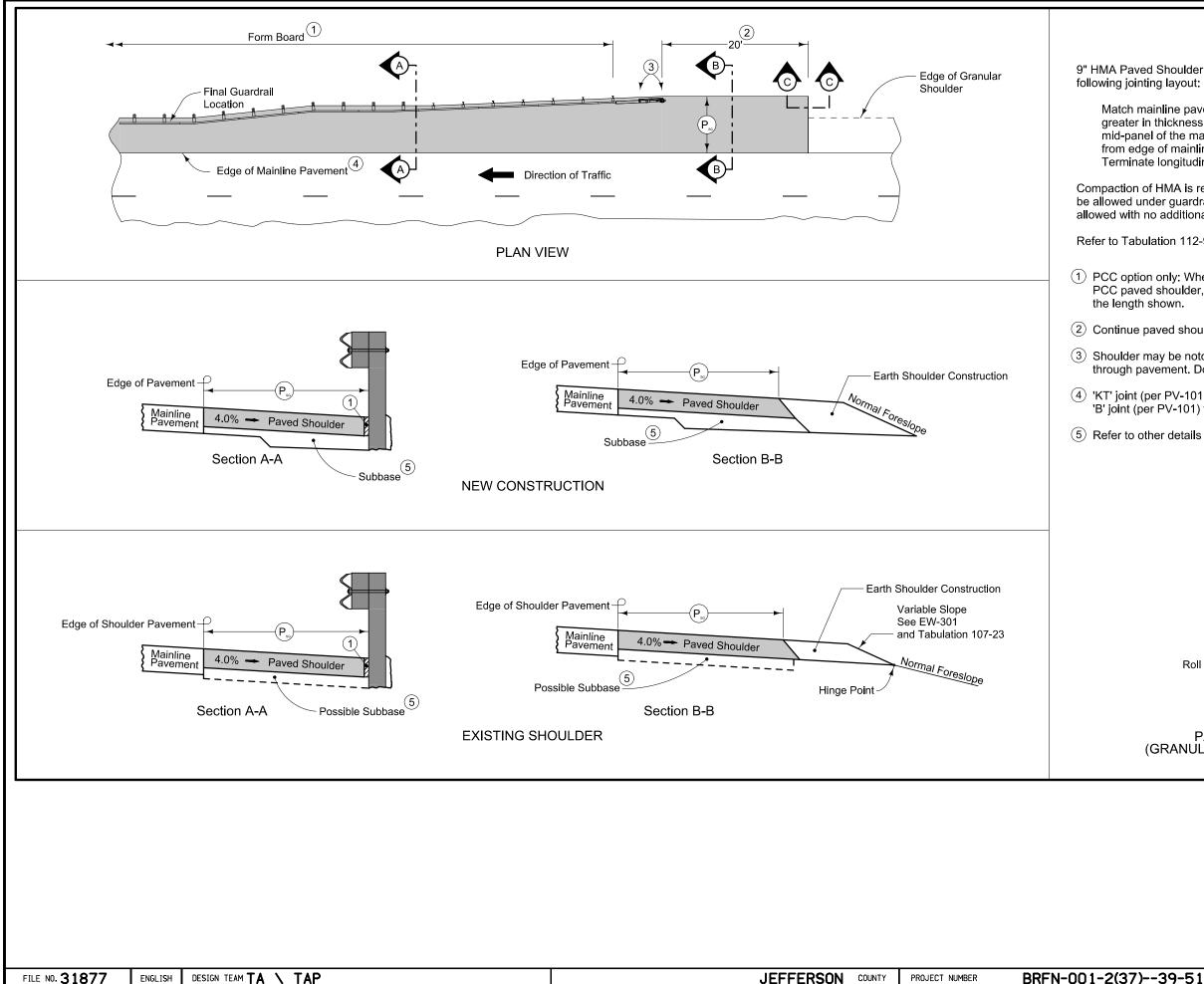
	INDEX OF SHEETS							
No.	DESCRIPTION							
Sheets	Title Sheets							
A.1	Title Sheet							
Sheets	Typical Cross Sections and Details							
B.1 - 2	Typical Cross Sections and Details							
Sheets	Quantities and General Information							
C.1 - 2	Estimated Project Quantities							
C.1 - 2	Estimate Reference Information							
C.3	Standard Road Plans							
C.3	Index of Tabulations							
C.3	General Notes							
C.3 - 7	Tabulations							
Sheets Mainline Plan and Profile Sheets								
* D.1 Plan & Profile Legend & Symbol Information Sheet								
Sheets Traffic Control and Staging Sheets								
J.1	Traffic Control Plan							
	* Color Plan Sheets							

	ROADWAY DESIGN						
DUNG T. 21117 OWA	I hereby certify that this engineer by me or under my direct person am a duly licensed Professional for the State of Iowa. Signature Dung T. Ta Printed or Typed Name My license renewal date is Dece	nal supervision and that I Engineer under the laws of 7. Valvana Date					
Pages or sheets covered by this seal: A.1; B.1-2; C.1-7; D.1; and J.1							
)39-51	SHEET NUMBER A.1						

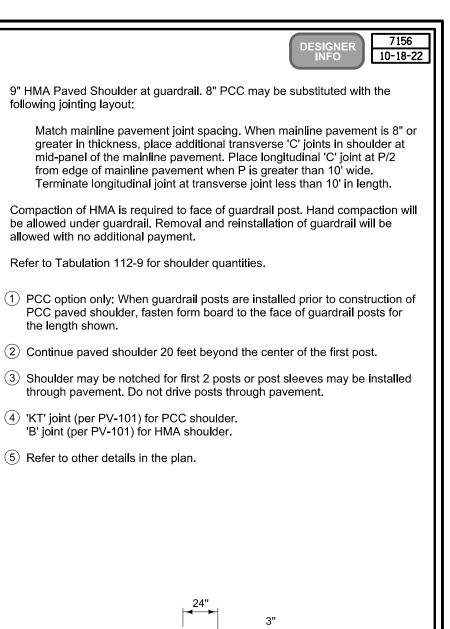


Temporary Crash Cushion
Traffic Traffic
) (1) Where (W) is less than 15'-6", install restricted width signing as per Standard Road Plan TC-81.
TEMPORARY CONCRETE BARRIER LAYOUT for Two-Way Traffic

			-
/)39-51	SHEET NUMBER	B.1	



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Section C-C

Roll down at granular shoulder or earth.

PAVED SHOULDER AT GUARDRAIL (GRANULAR SHOULDER ADJACENT TO MAINLINE)

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

				Quantities		
Item	Item Code	Item		Estimated	Estimate Refe	
no.				Roadway Items		
1	2102-0425070	SPECIAL BACKFILL	TON	98.305	Refer to Tab. 112-9 in the C Sheets for details.	
2	2102-2625000	EMBANKMENT-IN-PLACE	СҮ	229.5	Refer to Tabulation 107-23 in the C Sheets for details. Material shall be provided by the Contractor. Provide borrow material according to Section 2102 of the Standard Sp	
3	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	86.6	Refer to Tab. 112-9 in the C Sheets for details.	
4	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	3.4	Refer to Tab. 112-9 in the C Sheets for details. Requires a minimum of 4 inches of topsoil. Place according to Article 2 of the Standard Specifications.	
5	2301-0690203	BRIDGE APPROACH, BR-203	SY	559	Refer to D Sheets and Tab. 112-6 in the C Sheets for details.	
6	2304-0100000	DETOUR PAVEMENT	SY	267.5	Refer to Typical 7156 on Sheet B.1 and Tab. 112-9 in the C Sheets fo	
7	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	320.5	Refer to Tab. 110-7A in the C Sheets for details.	
8	2505-4008300	STEEL BEAM GUARDRAIL	LF	175	Refer to Tab. 108-8A in the C Sheets for details.	
9	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	4		
10	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	4		
11	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4		
12	2510-6745850	REMOVAL OF PAVEMENT	SY	676.8	Refer to Tab. 110-1 in the C Sheets for details.	
13	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	47.23	Refer to Tab. 108-22 in the C Sheets for details.	
14	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	3.3		
15	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	47.23		
16	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	1,275	Refer to Detail 8212 on Sheet B.1, Bridge Sheets, and Tab. 108-33 in	
17	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH	1	Refer to Tab. 108-28 in the C Sheets for details.	
18	2528-8445113	FLAGGERS	EACH	0	See Proposal.	
19	2551-0000110	TEMP CRASH CUSHION	EACH	4	Refer to Tab. 108-30 in the C Sheets for details.	

Design Team :TA/TAP

erence Notes

Specifications.

le 2105.03,B

for details.

in the C Sheets for details.

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Refer
20	2602-0000020	SILT FENCE	LF	750	Refer to Tab. 100-17. The tabulation includes estimated locations for placement of "Silt Fence erosion to be encountered during construction. Verify the specific locar the Engineer prior to beginning placement. Bid item includes 25% add for field adjustments and replacements.
21	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	750	This item is included for silt fence and silt fence for ditch check remova staging reasons, removal to allow for replacement (replacement to be or for areas that have achieved 70% permanent growth. This item is in Remove silt fence and posts after mulching or vegetation is established
22	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	75	This item is included for clean-out and repair of the silt fence and silt fence checks during the project.
23	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	1,680	Refer to Tab. 100-19. The tabulation includes estimated locations for placement of "Perimeter erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placer
24	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	1,680	

erence Notes

ence" to address cations with dditional quantity

oval required for be paid separately), s included for silt fence and silt fence for ditch check removal. shed and approved by the engineer.

fence for ditch

eter and Slope Sediment Control Device, 20 in. dia." to address

cement.

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES

	,							
					Possib	le Standards:	EC-204	
L	ocation		Per	imeter and Si	lope	Ditch Check		
		End Station Side	Length of Installation				Installation	Remarks
Begin Station	End Station		9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	Rellidriks
			LF	LF	LF	LF	LF	
156+65.00	158+95.00	Rt			230.0			Bottom of Foreslope
156+65.00	158+95.00	Rt			230.0			Midpoint of Foreslope
161+75.00	163+65.00	Rt			190.0			Bottom of Foreslope
161+75.00	163+65.00	Rt			190.0			Midpoint of Foreslope
157+20.00	159+10.00	Lt			190.0			Bottom of Foreslope
157+20.00	159+10.00	Lt			190.0			Midpoint of Foreslope
161+85.00	164+15.00	Lt			230.0			Bottom of Foreslope
161+85.00	164+15.00	Lt			230.0			Midpoint of Foreslope
	Total=				1680.0			

262-6 10-18-05

UTILITIES

(NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the

provisions of	IAC	761-115.25.
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		111-25 10-18-11
	INDEX OF TABULATIONS	
Tabulation	Tabulation Title	Sheet No.
C Sheets		
100-0A	ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)	C.1 - C.2
100-4A	ESTIMATE REFERENCE NOTES	C.1 - C.2
100-17	TABULATION OF SILT FENCES	C.3
100-19	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES	C.3
102-5	EXISTING PAVEMENT	C.4
105-4	STANDARD ROAD PLANS	C.3
107-23	GRADING FOR GUARDRAIL INSTALLATIONS	C.5
108-8A	STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION	C.5
108-22	PAVEMENT MARKING LINE TYPES	C.6 - C.7
108-28	TEMPORARY TRAFFIC SIGNALS	C.6
108-30	CRASH CUSHIONS	C.6
108-33	TEMPORARY BARRIER RAIL	C.6
110-1	REMOVAL OF PAVEMENT	C.5
110-7A	REMOVAL OF STEEL BEAM GUARDRAIL	C.5
111-25	INDEX OF TABULATIONS	C.3
112-6	BRIDGE APPROACH SECTION	C.4
112-9	SHOULDERS	C.4
1		

04-20-1 TABULATION OF SILT FENCES Refer to EC-201 Location Length Remarks Begin Station End Station Side LF 159+20.00 Both 150.0 Under Bridge 159+60.00 - Both 150.0 Bank of Creek 160+90.00 150.0 Bank of Creek Both -161+40.00 Both 150.0 Under Bridge Total 600.0 150.0 x25% Bid Total 750.0 232-

100-19

10-19-21

10-19-

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03, B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03, E, 2, a and 4169.07, A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

STANDARD ROAD PLANS The following Standard Road Plans apply to construction work on this project. Title Number Date BA-200 04-20-21 Steel Beam Guardrail Components 04-19-22 Steel Beam Guardrail Barrier Transition Section (MASH TL-3) BA-201 10-20-15 Steel Beam Guardrail Bolted End Anchor BA-202 10-19-21 Steel Beam Guardrail Tangent End Terminal (MASH TL-3) BA-205 BA-250 04-20-21 Steel Beam Guardrail Installation at Concrete Barrier or Bridge End Post (MASH TL-3) BA-401 04-20-21 Temporary Barrier Rail (Precast Concrete) BA-500 04-20-21 Temporary Crash Cushions Sand Barrel 10-19-21 Double Reinforced 12" Approach BR-203 10-19-21 Bridge Approach (Abutting PCC or Composite Pavement) BR-211 DR-305 04-19-22 Subdrain Outlets (Standard Subdrain, Pressure Release and Special) EC-201 04-20-21 Silt Fence EC-204 10-19-21 Perimeter, Slope and Ditch Check Sediment Control Devices 04-21-15 Seeding in Rural Areas EC-502 04-20-21 Guardrail Grading EW-301 PM-110 04-21-20 Line Types PV-101 04-19-22 Joints SI-173 04-19-16 Object Markers 10-18-16 Object Marker and Delineator Placement with Guardrail SI-211 10-18-16 Special Signs for Restricted Width Traffic Control Zones SI-882 TC-1 10-15-19 Work Not Affecting Traffic (Two-Lane or Multi-Lane) TC-81 10-15-19 Restricted Width Signing (Less Than 14.5 Feet) TC-202 10-19-21 Work Within 15 ft of Traveled Way 10-15-19 Lane Closure with Flaggers TC-213 10-18-16 Lane Closure with Signals and TBR TC-217

FILE NO. 31877	ENGLISH	DESIGN TEAM	ΤΑ\ΤΑΡ
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JEFFERSON COUNTY PROJECT NUMBER BRFN-001-2(37)

100-17	232-30
4-20-10	252-5C 10-19-21
	EROSION CONTROL
	(NATIVE GRASS SEEDING)
	Area to be seeded is estimated to be less than 1 acre. If the Contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.
	Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed and mulch on the disturbed area lying 8 feet or more beyond the shoulder as follows:
232-3A 10-19-21	SEED MIX: Big bluestem (Andropogon geradii) 6 lbs. PLS/Acre (7.0 kg/ha) Indiangrass (Sorghastrum nutans) 6 lbs. PLS/Acre (7.0 kg/ha) Little bluestem (Schizachyrium scoparium)
	6 lbs. PLS/Acre (7.0 kg/ha) Partridge Pea (Chamaecrista fasciculata) 4 lbs. PLS/Acre (4.5 kg/ha)
	Sideoats grama (Bouteloua curtipendula) 4 lbs. PLS/Acre (4.5 kg/ha)
he id	Canada wildrye (Elymus canadensis) 2 lbs. PLS/Acre (2.2 kg/ha) Switchgrass (Panicum virgatum) 1 lbs. PLS/Acre (1.1 kg/ha) Oats (Avena sativa) 32 lbs./Acre (36.0 kg/ha)
ard	Furnish Big bluestem, Indiangrass, Canada wildrye and Little bluestem that is debearded or equal to facilitate the application of seed.
as	Furnish seed certified as Source Identified Class (Yellow Tag) Source GO-Iowa. Oats are excluded from this requirement.
f	Place seed according to the requirements of Article 4169.02 of the Standard Specifications.
	Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.
ns.	Preparing the seedbed, furnishing and applying seed and mulch are incidental to mobilization and will not be paid for separately.
d	

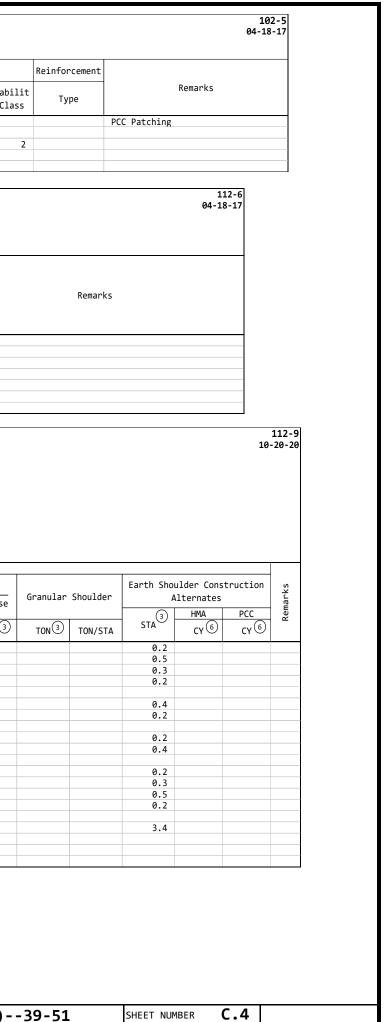
105-4 10-18-11

 39	-51	

SHEET NUMBER

C.3

			Location								Sur	Face	Base	e	Subb	ase	Remo	oval			Coars	e Aggre	egate	
No.	County	Route	Dir. of Travel		nd Ref oc. Sig		r Type		Project Nu	mber	Туре	Depth IN	Туре	Depth IN	Туре	Depth IN	Туре	Depth IN	_	Sc	ource		Туре	Dura y C
1	51	IA-1	1	19.19	22.43	2	900	STP-	01-5(703)0- L-1(23)2C	-89	PCC AAC		BAC	2						BUS JCT			C. LST.	
						1	968	F-1-2	2(1)20-51	*<1>	PCC	9							DOUDS	MINE			C. LST.	
												BRID	GE APF Refer to		H SECT	ION								
Not a b	bid item	Location				Appr	oach Paveme	ent			Standard Road	Plans			Su	odrain								
Bridge S	itation	End	Skew Ahea	t Thickn		-	Reinf. avement P	Single- Reinf. avement	Double- Reinf. Pavement		BR Series Fixed or		Perforat Subdrain		ıbdrain Ou	-lot	* Porous ackfill	Class '/ Crushee Stone	d Mod	* ified bbase	* Polymer Grid	Spec Backf		
			Degrees LEFT RI	GHT Inch	20	FT	Area SY	Area SY	Area SY	Approa	ach Movable Abutment	Pavement	LF		STA	Side	CY	Backfil CY		TON	SY	то	N	
		South North	30 30	12	2.0	74.2	113.8 113.8	75.8	89.9 89.9	BR-20 BR-20		BR-211 BR-211	44		58+33.02 52+46.98	RT RT	1.3 1.3	e	.2 24	2.000	270.0			
ا verall 1	Total= Total=						227.7	151.5	179.9 559.0															
2) See T 3) Bid I 4) Appli	Typ. 7156 Item. ies only	for Paved	d Shoulders	constructed	on pro	ject wit	h existing	granula	shoulders					Shou	LDERS									
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9/21/2022

39-51	SHEET NUMBER	C.5

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																98-33 15-19									
								BARRIE																	
* Not a bi	id item. An	chorage	requir	rements				L Possib: s shown in			lignments	that	vary fro	m what	t is sho	own									
in the pla	ans may res	ult in a	additio	onal TBR	sections	requiring	g anchor	rage.			0														
No.	Station to	o Statio	on	Lengt LF	h Concr BA-4		eel 0-7	Anchored*	Modular Screen (Y/	System			Remarks	5											
	157+21.25 157+21.25		58.75 58.75	637 637		X X		Yes		No															
		т	otal=	1275	.0																				
			otur	12/5																					
r																									
																	ee PM-110	9							
NPY4 - I	lace on the For estimat	ing pur	poses d	only. No	Passing	Zone Lines	s will b	be located	in the f	ield.	*M	IY4 -	Factor o						•	s to cover m					
BCY4: Brok	ken Centerl e Line Left	ine (Ye	11ow) (0.25		DCY4: Dou	uble Cer	nterline ((White) @	Yellow) @	2.00				NP	Y4: No	Passing Z	Zone Line	(Yellow) @ 1.25		BLW4: Br	roken Lane	Line (Whit	e) @ 0.2)
		•	, c			Location	•	. , .												Length by	Line Type	(Unfactore	ed)		
Road ID) S+	ation t	o Stati	ion	Dir. of			Marking	Туре		9	Side	BCY4	*	DCY4	NPY4**	BLW4	ELW	4 EL						
					Travel			-	• •			CI			STA	STA	STA	ST		TA STA	STA	STA	STA	STA	STA
IA 001		-21.25	165	+58.75	BOTH			Removal of			X	XX	X 10.	38				20	.75						
IA 001 IA 001	155+	-21.25 -	165	- +58.75	NB SB			rborne/Sol rborne/Sol					X X							0.1					
IA 001 IA 001		-21.25		+86.25 +71.25	NB NB	Wet		reflective rborne/Sol				x	Х						.65						
IA 001	155+	-21.25	165	+58.75	SB		Water	rborne/Sol	vent Pain	t)	X					10	. 38						
IA 001	163+	-93.75	165	+58.75	NB		Water	rborne/Sol	vent Pain	t)	X					1	.65						
IA 001 IA 001		-21.25		+86.25	NB NB			al of Remo Removal of		e		X	X						.65						
IA 001		-93.75		+58.75	SB			Removal of					х						.65						
TA 001	102	00 75	107	102 75	CD		1.1545	rborne/Sol	wont Dain	+			v						00						
IA 001 IA 001	163+	-08.75 -93.75	165	+93.75	SB SB	Wet	Retror	reflective	Removabl	е Таре)	X X					1	.85						
IA 001	155+	-21.25	163	+93.75	NB		Water	rborne/Sol	vent Pain	t)	X					8	.73						
IA 001 IA 001	155+	-21.25	165	- +58.75	NB SB			Removal of Removal of					X X							0.1					
IA 001		-21.25	165	+58.75	NB		F	Removal of	Paint				Х						.38	0.1	<u>د</u>				
IA 001 IA 001		-21.25		+93.75 +93.75	SB SB			Removal of Removal of					X X						.73 .85						
IA 001		-93.75		+58.75	SB			al of Remo		e			X						.65						
IA 001	155+	21.25	165	+58.75	BOTH		Water	rborne/Sol	vent Pain	t	X	x x	X 10.	38				20	.75						
FILE NO.	31877	ENG	LISH	DESTG	N TEAM							-						٦F	FFFRS	ON COUNT	Y PROJEC	T NUMBER	RREN	-001	-2(37)
	510//																	52				=			-(-)

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				108-28 08-01-08
TEMPO	RARY T	RAF	FIC SIGN	ALS
		Тур	e	
ocation Station	One Lane Traffic	Haul Road	Intersection	Remarks
155+21.25	Х			South Signal
165+58.75	Х			North Signal

				108 04-16	
		ELW4: Edg	e Line Ri	ght (White) @ 1.00	
	674	CTA	CT1	 Remarks	
_	STA	STA	STA		
_					
				Stage 1	
				Stage 1 Stage 1	
_				Stage 1 Stage 1	
				Stage 2	
_				Stage 2 Stage 2	
				Stage 2	
	39-	51	SHEE	T NUMBER C.6	

PAVEMENT MARKING LINE TYPES

 *BCY4 - Place on the same side of the roadway to match existing markings near the project.

 **NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

 BCY4: Broken Centerline (Yellow) @ 0.25
 DCY4: Double Centerline (Yellow) @ 2.00

 ELY4: Edge Line Left (Yellow) @ 1.00
 SLW2: Stop Line (White) @ 6.00

See PM-110 ***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area. NPY4: No Passing Zone Line (Yellow) @ 1.25

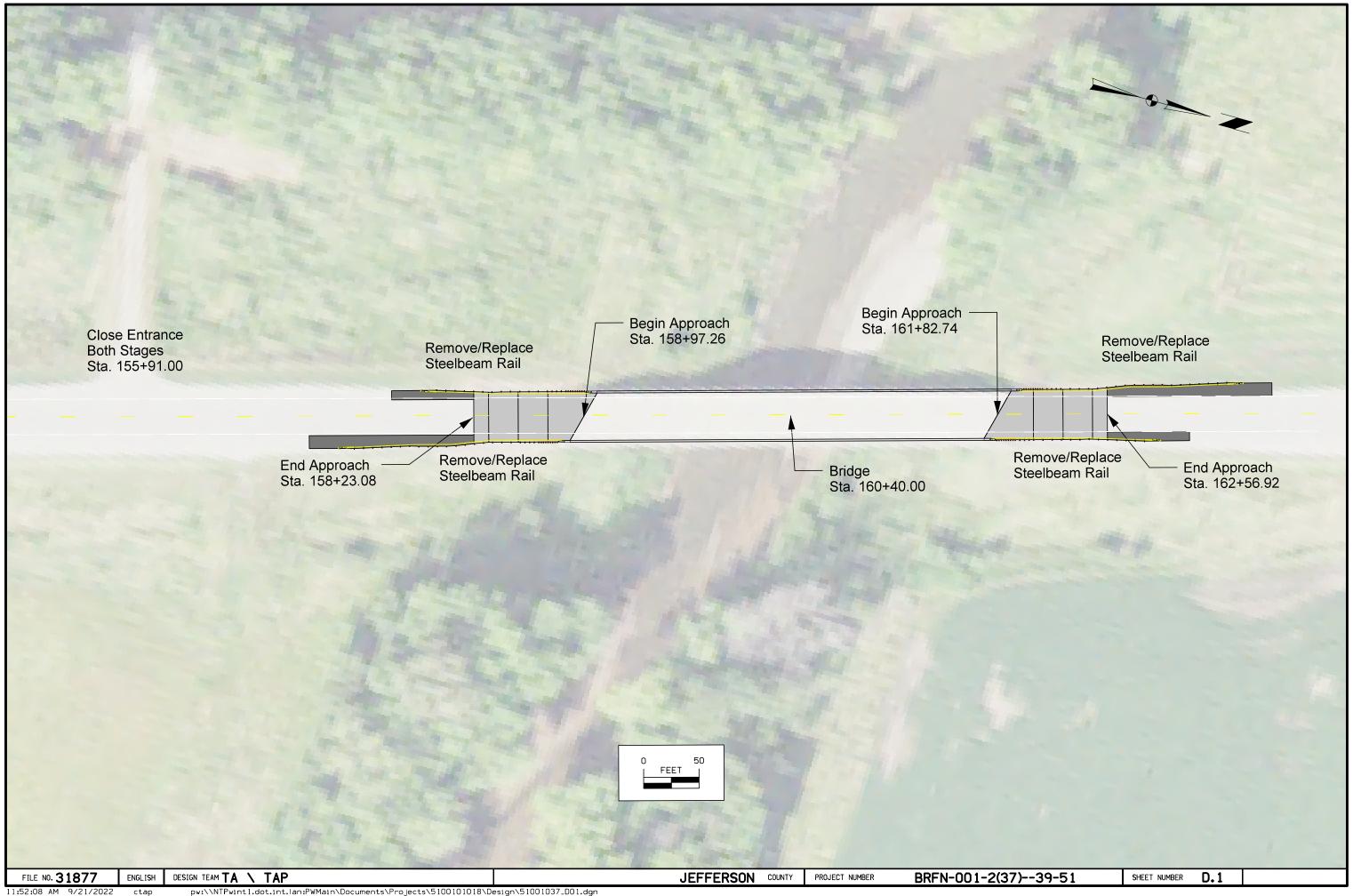
BLW4: Broken Lane Line (White) @ 0.25

		Length by Line Type (Unfactored)																		
Road ID	Station to Station	Dir. of Travel	Marking Type	Side	BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	SLW2									Remarks
		IIdvei		LCR	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
		Factored Tot	tal: Waterborne/Solvent Paint		2.59		-	-	43.20	-	1.44	-	-	-	-	-	-	_	-	
		Factored Tot	tal: Wet Retroreflective Removable Ta	ре	-	-	-	-	3.30	-	-	-	-	-	-	-	-	-	-	
			tal: Removal of Paint		2.59	-	-	-	43.20	-	1.44	-	-	-	-	-	-	-	-	
		Factored Tot	tal: Removal of Removable Tape		-	-	-	-	3.30	-	-	-	-	-	-	-	-	-	-	
		Bid Quantity	y: Painted Pavement Markings, Waterbo	rne or Solv	ent-Based			47.23												
			y: Wet Retroreflective Removable Tape					3.30												
			y: Pavement Markings Removed					47.23												
		Incidental F	Removal of Removable Tape					3.30												

FILE NO. 31877 ENGLISH DESIGN TEAM TA\TAP	JEFFERSON COUNTY PROJECT NUMBER BRFN-001-2(37)39-51 SHEET NUMBER C.7

108-22 04-16-13

ELW4: Edge Line Right (White) @ 1.00



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			TRAFFIC CONTROL PLAN at all times except as noted below. o way traffic operations as per TC-217 on IA 001 will be al	108-23A 08-01-08 llowed during construction.	Other work i include the	COORDINATED OP n progress during the sam construction of the proje ith those of other contra	04 ERATIONS ne period of time wil ects listed. Coordina	ate	
					P None Provid	Project	Type of Work		
				511 TRAVEL	RESTRICTI	IONS			
Route	Direction	County	Location Description	Feature Crossed		Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement
IA 001 IA 002	Both Both	JEFFERSON JEFFERSON	IA 001 Over Big Cedar Creek IA 001 Over Big Cedar Creek			Traffic Control Device Temporary Signal	31370 31370	Horizontal Vertical	32
IA 003	Both	JEFFERSON	IA 001 Over Big Cedar Creek			Temporary Signal	31370	Vertical	

FILE NO. 31877 ENGLI	ISH DESIGN TEAM TA\TAP	JEFFERSON COUNTY PROJECT NUMBER	BRFN-001-2(37)

108-25
10-21-14

Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
13'-4.5"	12'-4"	32	
15' min.			
15' min.			

7)39-51	SHEET NUMBER	J.1	