

(el an 25

ed 23

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL	
KANSAS	38 C-5206-01	2024	1	80	

GRADING & SURFACING (ASPHALT) BRIDGE SEEDING

No Scale

Note: Traffic will be detoured around construction using a shoofly detour. The Contractor shall construct and maintain the shoofly detour.



Tanha Buch 6-20-24



200 E. Iron Ave, Salina, Kansas 67401 (785) 376-6739 FAX (785) 472-3817



_	3010	MART OF	INTE	RSEU	10143	AND 3	IDERU	ADS				-
	SIDE OR QUADRANT	TYPE	W	WI	W2	W3	W4	R	С	S	D	BS
	Rt.	С		_		28'		50'	2.75*	3:1	N/A	N/A
_		1					-					-
-				_								
_												
-				_	-	-			-			-

t Roadway Width							
Sta.	Width						
43+50.00	Existing to 24						
44+06.75	24'						
46+00.00	24' to 28'						
46+74.00	28'	_					
54+00.00	28'						
55+00.00	28' to 24'						
55+50.00	24'						
56+00.00	24' to Existing						

SUMMARY	OF	OBJE	CT M	ARKERS	AND	SIGNS		
STATION	SIDE	TYPE OF	TYPE C	F OBJE	ER	REMAR	٢s	
	-	STRUCT.	SIGN	TYPE	NO.			_
16+73.00	1. †.	Bridge		0M3-1		Ø		-
16+73.00	Rt.	Bridge	-	OM3-R	i	ø		
53+27.00	Lt.	Bridge		OM3-L	1	ø		
53+27.00	Rt.	Bridge		OM3-R	1	Ø		
			-					
	-						_	
	-					/		
	-							-
Ar you face bridge	and fi	com apper	nach	_			_	-
*Back-to-Back [Slant	s) on	Both Side	s of Po	stl	1 4 1		-	
-addit to book Laight	or on	donn side	10 01 10	011			-	
lion								
		7	01-08-15	Revised supereleval	on diogram, u	pdoted misc. notes.	TLS	RJS
		6	₩-9-04	Changed "Culv	ert' to	Structure	DMK	RJS
		5	12-1-03	Rem Delin,'s/Add	Typ. Seot.	/Changed ON notes	DMK	RJS

ΤY	'PICAL G	RA	DING SI	ECTION
LP907				
		10.00	APP'D.	RJS
LP907 FHWA APPROVA	DETAILED	TLS	APP'D.	RJS TRACED

Sh. No. 2





t on Non-410' for Sealant Expansion Joint is: 380' for Steel Bridges, to Designer: For Membrane ximum length of expansion i

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL
KANSAS	38 C-5206-01	2024	6	80

GENERAL NOTES

- See Concrete Bridge Approach Pavement standard drawings for location of expansion and
- Form the joint opening prior to placement of the pavement approach. Remove the material used to form the joint after the pavement approach has been in place for a minimum of 6
 - Clean and construct the joint only after the concrete in the approach slab has cured for
- Thoroughly clean the joint by sandblasting and by high pressure air blast to remove all laitance and contaminants from the joint. When any joint is shaped by saw cutting in lieu of forming, blast the joint with water prior to sandblasting and air cleaning. Accomplish sandblasting in two passes to clean each face of the joint (one pass for each form black of the point of the point of the point of the point form and the point of the
- face). Hold the nozzle 1 to 2 inches from the joint face at an angle to the joint face. Remove any contaminants such as oil, curing compound, etc. by sandblasting to the satisfaction
- of the Engineer. Solvents, wire brushing, or grinding are not permitted. Air blast the joint just prior to installing the Membrane Sealant. Equip the air compressor used to clean the joint with trap devices capable of providing moisture-free and oil-free air at
- a recommended pressure of 90 psi. Spot check the joint to verify any residual dust or dirt has been removed. The Engineer is required to inspect the joint immediately prior to installing the joint
- * See KDOT Standard Specifications for Membrane Sealant, Bonding Adhesive and Splice Adhesive. The width of the membrane sealant is 4 inches (nominal)
 - Do not allow traffic on the joint for a minimum of 3 hours unless otherwise directed by the
 - Use splice materials and methods recommended by the Manufacturer
- All work and materials for the preparation, construction, and installation of the joint will be subsidiary to the concrete approach pavement.
- Pay for the Bridge Approach Slab Footing at the unit price bid per cubic yard for "Bridge Approach Slab Footing". This price will be full compensation for furnishing all materials and labor including Concrete Grade 4.0 (AE) Pavement, Reinforcing Steel (Gr. 60) (Epoxy Coated), excavation, Ture "A" Competition and the state of the Type "A" Compaction and materials used to prevent bonding of concrete. The Contractor may use Concrete Grade 4.0 (AE) or the mix used in the concrete pavement for the slab footing.

♦ PRESSURE RELIEF J	OINT	WI	DTH	DET	AILS	5 (W1)
	40°	50°	60°	70°	80°	90°	100°
Formed Concrete Opening Size	4.0"	3¾"	3½"	3¼"	3.0*	2¾"	21/2"

Ψ Average Ambient Temperature over previous 24 hours.

EXPANSION JOINT WIDTH DETAILS (W2)

See bridge construction layout sheet for details

4" Monolithic Edge Curb

Note: Where concrete flume inlets or concrete curb and gutter are constructed adjacent to bridge approach slab pavement place membrane sealant between 4" monolithic edge curb and 4" concrete flume inlet edge curb or concrete curb and gutter as shown on this sheet (concrete flume inlet shown). See approach slab Standard Drawings, Expansion Joint Elevation detail this sheet, Standard Drawing RD628, and Standard Drawing RD635 for additional details.

LEGEND

Membrane Sealant

4" Monolithic Edge Curb

FWS

	ment
Approa	ch Paverne
App	

	1		1	
10	01-22-16	Add Det, Keyed Joint & Flume Inlet	T.T.R.	S.W.K.
09	10-16-13	Revised General Note	SWK	JOB
OB	04-04-13	Rev. Joint Width Det. Table	SWK	J.0.B.
NO	DATE	REVISIONS	BY	APPD
E	BRIDO EXPANS BRIDO	SE APPROACH SLAB D ION/PRESSURE RELIE E APPROACH SLAB F(ETAILS EF JOIN	S NT/ G

FIRMA ADDIDITION	02-01-15	APPD	Scott W. Kin
DESIGNED	L DETAILED	QUANTITIES	TRACED
DESIGNUK	DETAIL CK	QUAN CK	TRACE CK



Note to Designer: The designer shall be responsible for designating pavement thickness and reinforcing steel and concrete quantities and dimensions necessary to complete this sh

26-JUN-2024 10:40 LO bwilk dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	38 C-5206-01	2024	7	80



											SLIMM	ARY OF	STEEL	PLATE	GUARDRAU			
		AL	LOWA	ABLE	END T	FERMI	NALS		TT				Layou	Flor 3	Layout 2, 4, or 6		Layout	
			Lay	yout			Regulaed	Location	ep	Layo	Addition Standar	al Total d Pay	Gd. Roll End Term	Gd. Rall End Term.	Gd. Rall. End Term.	Gd. Rall End Term.	Gd. Rall End Ter	
TYPE	J.	2	3	4	5	6	Standard Drawing	(Quadrant)	uadrant) 5) IS -	lo. Lin.	* Lin. Ft	Lin. Ft.	(SRT) Alt. *I Each	(FLEAT) Alt. #2 Each	(SKT) Each	Alt. #I Each	Alt. #2
SRT	Х		Х		Х		RD606											
FLEAT	Х		Х		X		RD606	Southwest	Lt.	1 25'	·O"	25'-0"	1	1				
SKT		X		X		Х	RD606											
								Southeast	Rt.	1 25'	·O*	25'-0"	1	1				
								Northwest	Lt.	1 25'	0'	25'-0"	1	1				
								Northeast	Rt.	1 25'	·O*	25'-0"	1	1				
								TOTA		ENG	TH	100'-0"	4	4				

Plotted by : bwilkinson 26-JUN-2024 10:41 File : Ip620.dgn

	STATE		PROJECT NO.	YEAR	SHEET NO.	TOTAL
	KANSAS		38 C-5206-01	2024	8	80
		NOTE:	Layouts 1, 2, 3, and 4 will any guadrant unless other	l be symmeti wise shown	ric for in the plans	
100'-0' Taper	\checkmark		When using Rubrail, attack RD611, RD616 and RD615	h Std. Draw (parallel) (vings No. or RD615A (flared)
Stope			When using Thrie beam, o no. RD611 and RD608 or	attach Std. RD613.	Drawings	
NO SHOULDER) POLICIA			Attach Std. Drawing No. I (flared) for post over box	RD617 (para less than t	allel) or RD full depth.	617A
· f	krærære:		Ф Radius ~ 625.08			
100-0	Taper	-				
rail in adapt						
E.O.P. with NO SI	HOULDER)	able				
		Vari				
-0 5-0 1	00'-0" Taper		-1			
6'-0' to Lace of rail	100e					
Should	der (E.O.P.	with	- Va			
Terminal NO S	HOULDER)		riable			
		12	02-21-19 Updated per Road Memo	18-02	WF	MJS
		10	OI-D6-I5 Added X-Lite, Removed E	T-PLUS	TL	RJS
		9 NO.	DATE REVI	sions	BY	APP
				OF TRANSP		
			ΠΤΡΙCAL Α	F		
			GUARDRAIL IN	ISTALL	ATIONS	
		IPP	520			
		FHWA	APPROVAL ED DETAILED TLS	APP'D. QUANTITIES	MJS)
		I DESIGN	LDETAN CK BIS	TOUGHLER.	LIRACE	Seller:

Sh. No. 8



typic for for ter Whe whe of the o Guardrail Typic Installations. V is the flare rate o be designed usir e rates are typic in to offset the e uld be flare wn on KDOT or 'Zero Fla ically match inals shoul I or flatter f flatter in oi typic typic 50:1 1 or er Para erminal ail end t while as 26: gund over ' ardrail vever, steep ns are the gu ns, 'Pa ins, 'Pa itermin y be fla tion tion end ed tralla tralla tralla true (true (true (true (ins ins ins ins ins sign gu lardrail o Flare length end terr through

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	38 C-5206-01	2024	9	80



26-JUN-2024 10:41 : bwilkinson .dgn Plotted by : h File : rd610.d

					TOTAL
	STATE	PROJECT NO.	YEAR	SHEET NO.	SHEETS
	KANSAS	38 C-5206-01	2024	10	80
GENERAL NOTE arkers on a post behind the guardrail to ons at a spacing not to exceed 25. No the guardrail is terminated with a crass arkers on the top of bridge rails at a si retare than 200' long), where spacing arkers on the top of concrete safety b irrier along a horizontal curve or along 0. t of the bridge rail or concrete barrier lo in the side of the barrier at a height of 3 idge rail, or concrete safety barrier loca with white/silver high intensity reflective rated on one-way or divided roadways, on the approach traffic side of the bra ided on one-way or divided roadways, on the outside edge of one-way or exting installed on the approach traffic fety barrier located in the median, use on both sides of the bracket. Match th the color of the pavement marking ad t Polycarbonate Flexible Guardrail Mar proved equivalent, see Standard Specif nium plated for installation of markers arrier are <u>subsidiary</u> to other bid items markers for the final (permanent) traffic	ES polt head marker hworthy pacing n may be 1 arrier at ramps a s greate 32° as shi ted on t e sheetin use flexi cket onl divided side of flexible e color flexible cacent to ker with fications h Standas s on gua in the cc	I on the traffic side of is installed between the end terminal. of to exceed 50', except increased to 100'. a spacing not to exceed nd ramp tapers, where s r than 32", mount the iown on this sheet. wo-way roadways, use g on both sides. ble markers with reflect y. For bridge rail or con- to bridge rail or con- to bracket only. For brid markers with reflective of the marker (yellow/an the traffic lane. High Intensity Reflectiv rd Specifications. rdrail, bridge rail, or ontract. uration.	head spacing rete narkers dge nber e	ł	
e Roadway num)	W-E	Variable (4'-0" Minimum)	Ro. 31/4"	adway	
VI GUARDRAIL	VV-E	EAM GUARDRAIL			
	09 09-11-1 08 11-15-1 07 12-21-0 00 DATE	7 Rev. Det. Markers, Rev 0 Revised polts 8 AKT marker or approv REVISIONS KANSAS DEPARTMENT OF TI	Gen Note	AL SW SV B ATION	R S.W.K J.K J.O.B. V APPD
	MA	ARKER DETAILS F	UR GI	JARDRA	λIL,

BARRIER, AND BRIDGE RAILS RD610 3-15-10 QUANTITIES TRACE CK DETAILED DETAIL CK. ESIGN CK. Sh. No. 10 KDOT Graphics Certified 04-23-2024

TYPE IV CSB



DETAIL OF PLACEMENT AT CURB





Slurry Grout (Low Strength). See KDOT's Standard Specifications ⊗ Diameter may vary from 1'-6" (min.) to 2'-0".

Applies to All Wood and All Steel Posts

(Steel Posts Shown)

Note: Low Strength Grout must have a 28-day compressive strength of 120 psi or less. All work and materials related to posts in pavement are subsidiary to other guardrail bid items. Rectangular geometry shown in Posts in Pavement detail. Circular geometry, as shown on this sheet, may be used at the Contractor's option.



	with the KD	ll bolts, nuts, and OT's Standard Sj	pecifications	accordanc	e
	13 09-05-18	Added Det, Po	st In Favement	ALR	TTR
	12 12-14-10	Revised not	es, 28" w-be	SWK	JOB
	11 05-30-04	Remove steel bl	ackout and notes	SWK	JOB
/16	NO. DATE	REVU	STONS	BY	APP'D
		KANSAS DEPARTMEN	T OF TRANSPORTATI	ION	
IUT DETAILS	RD611	GUARDR	AIL POST AILS	ION	
IUT DETAILS	RD611	GUARDR DET	AIL POST AILS	ION	W King
IUT DETAILS	RD611		AIL POST AILS	Signit	W. King

KDOT Graphics Certified 04-23-2024

Sh. No. 11







1:54	132	11	Z1	77	11	01/71					/ 64.5		60 Y 10	6.70	0100
1.7.1	201	late.	UL		61	01/61	1.71		71				"02 × "18	1770	0.52
1 211	4.71	11	71	00	11	01.021	104	LL	61	95	1	01/61	11. × 25.	612	21.0
1.711	POL	LL	61	98	21	01/21							73" x 55"	23.2	21.0
1.711	2011	200	71	00		100 C 100 C	611	LL	15	39	11	01/21	"TAK"TT	T.8T	5.91
1.911	611	02	61	98	11	01/61			-				"[Z X "]a	E 61	5.91
1.6			100				001	69	15	30	12	15	64" x 43"	147	2.5 or 14.0
1.6	001	02	12	96	21	15							_97 X _09	9'51	2.5 or 14.0
16	00						88	29	15	97	91	15	"86 × "29	9.11	0.11 10 0.0
16	88	63	61	92	4	15							23" X 41"	ELL	0.0 011.0
1.716		-					82	23	6	LZ	15	15	"EE x "94"	6'8	2.8 to 0.7
1.46			-				73	97	L	18	11	14	45, X 56.	5.9	5.0 or 6.0
1 %6							85	66	9	91	6	14 I	32, × 54.	5'7	3.0 or 4.0
1.516							917	32	9	9L	1	91	28. × 30.	5.9	5.5
1.516							40	58	9	15	L	91	24. × 18.	5.2	5.0
1:%2		_	-	-			34	24	9	11	9	91	51. X 12.	9.1	SL
26.1		· · · · · ·	- 1. C				82	DZ.	9	6	2	9L	"51×"71	L'L	0.1
Slope	(im)	("Z∓)	("ujuu) H	(xem)		CS, ACS or CA	(,nim)	(∓2") Γ	('uim)	(max.) B	(.nim)	CS, ACS OT CA	Span & Rise	Area 17 p2	13 pS
lisiday	Cort.	"f x "d 1	0 "l x "E	sədənlı	ni anoiar	Dimen	snoite	corruga	.% × .%7	səybul	ul suois	Dimen	Pipe Arch	M M WON	P!8

15

21

L:%L	144	/8	71	QC.	- /1	01/71	01
1:41	145	28	71	85	11	01/71	+90
1:41	130	Z 8	15	25	/1	01/71	179
1 %1	130	Z8	15	81	1 21	OL/ZL	8/
1:2	150	L8	15	111	LL	15/10	71
1.2	BLL	Z8	15	68	14	01/21	.99
2.1	115	Z8	15	98	ZL	15/10	.09
1:1/2	001	48	15	33	21	15	24
1:1/2	88	87	15	50	ZL	15	87
1:42	85	69	01	52	SL	15	45.
1 5 2	02	09	б	61	EL	1VL	.98
1.5(2	55	LS	8	91	LL	14	30.
1:%2	912	17	9	13	6	91	.77.
1:42	40	96	9	15	8	91	.17
1:%2	34	31	9	OL	L	91	18.
1:42	- 28	56	9	8	9	91	SL.
1:42	52	21	9	L	S	91	JZ
Slope	W (.nim)	("Z∓) Γ	(.nim) H	("xem) Ø	A (.nim)	Gauge A	.eiu (.nI)
Norda A		COLIOUR				01	adu.

DOUBLE HARNESS

CONNECTION DETAIL

A A

18HB

.071

.711 .801

.#S

38,

.91

sayou

Pipe Bia

dSOV/dSO Thickness Thickness

CVb

eauge

SPIRAL (HELICAL) CORRUGATION

Hugger Band

ronnector Bar and Strap

stio8 & "%" -

Connector Assembly

15

72

DL. 14

nottegumon (leoilai-l)

15

Golt, Bar and Strap

	1101 121	0 00	020					1
	*L/ X "EOT	45.4	42.0					-
	.29 X .56	37.0	30.0			-	-	-
	87" × 63"	351	35.0		-		-	-
121	"72 x "58	56.0	52.0	L:%L	144	/8	71	1
	"62 x "18	57.4	52'0	1.341	751	18	71	
121	.ZG X .//	51.9	510	1:3/1	139	/8	71	
	73" x 55"	535	0.12	1 %1	130	/9	71	1 2
121	"TA K"TT	T.8T	591	1.7	071	18	21	1
_	"LS X "99	E 6L	9.91	1.7	BII	10	71	-
15	64. X 43.	147	0.41 10 8.21	17	711	10	71	
	.97 X .09	9'91	12.5 or 14.0	1:8/7	001	10	71	
ΖL	.8E X	9.11	0.11 10.0.01	1:%7	89	8/	21	5
	23, X 41,	LL	10.0 TT 10 0.0T	1:3/7	70	60	01	0
21	.82 x .67	6'8	2.8 10 0.1	1.547	0/	09	5	
11	45, X 56.	5.9	5.0 of 6.0	1:307	CC	10	0	0
ÞL	32, × 54.	5'7	3.0 or 4.0	1:47	0tz	14	0	- 3
91	58, × 50,	6'7	S'Z	1:47	Dtr.	00	9	2
91	24" × 18"	7.7	0.2	1.2/2	tic	96	9	6
91	-SLX_LZ	9'1	91	1.6/7	07	07	9	0
9 L	-ELX./L	L'L	0.1	1.07	77	96	9	- 1
ineg		20' 11		1.76	66	10	9	1
010	Span & Rise	Palw	17 pS	adata	(uim)	(l (aim)	I CX6

				1	8	00	617	7C X / f	0.17	-		1 1 1		- K.K.	1 14	
In deote allege of \$20 wolls tert searching of an alleged of	t L			41	a		010	465 ^ #LL	016	15		14	14	14	141	8
imum daude.		0					656	.55×.82	21.0	14		14	14	11	11	0
Standard Drawing are KDOT minimum and may not be industry min-	1.1	8			01	.09	1.81	"Z7 X "LZ	5 91	91	8	91	171	01	11	8
shall be listed in the Pipe Culvert Summary, Gauges shown on this	<u><u>P</u>L</u>			14		109	163	"LS X "99	S 9L	91	8	DI	11	01	11	01
lieds bre selds T trigieri III O trief -I emuloV leuneM rigiso ant no		01			15		141	Pd. X d3.	0.4100.21	01	0	91	14	91	71	01
E'=750 p.s.i. soil. Pipe gauge will be determined for each site based	14			14		.75	9.61	0t X 00	0 +1 10 C 71	.94	01	91	p1	91	14	01
tot muminim are teads suft no soldet and in betall aguage and		01		1	71	Qtz	0.11	00 X 10	01110961	91	61	91	14	91	14	71
"adid upie .67X 7tr io iatauleip or upin				#1			3 1 1	- 30,	1000000	91	15	91	71	91	171	21
150 pipe. The H-L2 of H-L3 Hugger band are tor pipe sizes larger		71		P +		.87	211	"14 x "Ed	10.0 01 10.001	91	15					41
NUL 71 UO DASTI AG ÁRU DURG JADÓDIL OLALAUL JARREUS DUR 67		71			71	12"	6.8	46 X 33_	700185	91	14					VL
X 76 sauge add to jaterus oue lataruent, or sadid minours up nace		61			14	.98	5.9	45, X 56.	5.0 or 6.0		1		<u> </u>		t	VI.
ad fair mage regions for the set of the set		14			14	30	57	32, X 54.	300140		01				+/	
, und the back of the transferred from the produced back and the		14			7L		67	07 X 87	67		01					14
hord prito and the manual solution have been an on the prito and the prite and the pri		91			71	-17	77	Q1 X 17	07		91					41
To tit of sub draral agin of nisa tot tramved on ad lists stadT		91			171	01	01	101 × 10	06		91					21
with allowable types listed for each site		91			76	101	91	.51 * ,16	51		91					14
More than one pipe "Type" may be acceptedle for a design location	140	1600	1001-100	1000110 100	PL	<u>"SI</u>	11	17, × 13,	0.1		91					
within guidelines of KDOT Pipe Policy for deagraphic location.	UVJ	avu	9204 10 920	4204 10 920	920A to 920	Diameter			a u bo	C∀b	CAP 1	dSOW I	0 480	JOON	10,100	100011100
Culvert "Type" listed may be CSP, ACSP, CAP, RCP, PVCP & PEP	3" x 1" Corr	7%"× %" Corr	5" x 1" Corr.	3, x J, Cott	2%, x ½, Corr	Pipe	2d FL	Span & Rise		3 X I COLU	100 2082	1000	-uou	Viceo	vdsJ	920A 10 920
GENERAL NOTE For METAL PIPE		Pipe	NOTA TO SQUED IN			punoy	0- 11	Pipe Dimension			1 100 11 0026	100"	1.4.5	'Corr	3"×1'	2%" x %" Corr.
	·		1			Equiv.	_		Pid		eqi9 bri	ge of Rou	unsə mu	uminiM	610	
			- (acturer)	unem yd ynev yer	n bns lenimon and n	e seldet es	adt ni ba	etail noitemrotal)					_			
12/10 11 44 15 81 125 1%1				9/ X .ZLL 0	82 0/2				1 1	1 1 1						
13/10 12 44 15 82 125 12				1/X F01 t	72 0'24											
					000	-										1 Advances of the local sector of the local se

5'\$Z __16 × 271

S 09

48.0

35°J 38"

105.

243

137" x 87"

158, × 83, 112, × 26,

SZ X "211

103. X 11.

83. × 21

65 × .18

0'29

0.08 54.0

52'0



round pipe? For entrance and side road installation with less than 3.000 AbDT, 16 gauge ACSP may be substituted or 14 gauge CSP.

0ETA1LCK

0990X

ž	ье I) 8 ОПИD 8	KANSAS DEPARTMENT OF TRANSPORTATION L END SECTION FOR R(METAL CULVERTS (TYI	METAI HDAA	
Ø,dd∀	R4	SNOISIABE	DATE	ON
	N 66 C	19100 DUE SINGEL "HILLION "DO VOL 1824	80-91-#0	70
108	Amo	second and the strengt second had	00 01 10	00
108	ZMK	Rev Round and Arch lables, add Alum	01-50-00	60

PIPE GAUGE TABLES

PL ON US



				(J tuode	noitetoR pniworl2)															rotures	s. For stri	iot detail
			1																	*0990	- ul umour	s se ao o
			$\leq -$		- P -									1	1		<u> </u>					1
					х Т																	
			/ //		oriz		_												_			
			/ //	5					-											_	+	
			- #	/	t													-		_		
			dia	//	Edge of Pavement																	
			JOE	//	divis													_				
			Bus	///	зу, Р																	
			~\	1	, [₽]															_		
				1	E Project												-					
	0	бијио	Direction of Stati	X	E E						-											
				/ .																_		
				/								ļ							_			
				1	di li			-												_		
					Edge of Shoulder									-						_		
			(uwods algae)	цәл)	"Out																	
			e of Rotation ,	ignA 🛝		 																
																				-		
																		_		_		
												1.8	081							001000		
							Mum	leats	.mulA	leats	ON SSEIO	.11	450	134	17	1000000	- 11			335.66	3333,403	
						Remarks	Suchebu	Pipe Corr	o əbn	eð eqi9	Concrete Pipe	Fill (max.)	JO LIU FL	ədi	1 10	10	Aewbe	08		81		Grade
												12 (13.0	٨	AAMM	US TS	CULVER	Filte	0H	1.4 5.1.54	X		Crown
					1												Jard		_			
80	<u>91</u>	2024	38 C-2509-01	RANSAS																		
JATOT STATH2	SHEET NO.	ЯАЗҮ	PROJECT NO.	JTAT2																		
																			_	_		

🛞 Design side slope to intersect inside diameter of pipe outside of Clear Zone.



aterial	the same m type.	to snoites? bn	Provide E and coati	ACSP CAP CSP
				ВСР
				SRPE
				ddd
				ЬЕЬ
<u></u>				PVCP
SЯ	C∀	SOA 🔶	SD 🔶	ad()
S	NO LOSS ON	ALLOWARDE E		advT

Y Submit Shop Drawing of connection for review Type IV End Sections are only made of CS or ACS

formation.	ni naitoe2 bn3 rot seit	itneup to themmus ses
oitepunoo &	apuep adig muminim	O Unless otherwise noted
	Y	
.98	CBP (3 CSPa)	05'56+6701
84.	CRP (6 CSPs)	00'05+6†01
Designati Designati	Lype	noitst2

					всь
					С∀Ь
					ACSP
			- N		CSP
					SBPE
					ddd 🗖
					🗖 bEb
These temperatures a series of					XX bACb
IM reput toV	Under ML	201101110	Road		
19W92 m	Stor	Panentnä	Side	PaninieM	adkı
W	NOITADO	OWABLEL	114		TUT

کې When inside diameter of pipe is 36" or less.

A Unless otherwise specified in the plans. Some pipe types may inst be allowable to location if the fill height exceeds the maximum allowable or is less than the minimum allowable cover. When inside diameter of pipe is 60° or less.

≯ For inside diameter: ≥ 30°

by : bwilkinson 26-JUN-2024 10:42 659.dgn	
Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVCP, PPP SRPE, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/minimum fill heights and classes of pipe.	

	"rotection (Riprap Stone)".	Y to the bid item "Slope P	reibizduz		lenois	censed Profess	non Pians. A Li	pproved bemoin			y the Engineer.	ous approved b	wu, or at locati	locations sho
	ectly, but shall be considered	e shall not be paid for dire	geotextile		tuontiv	ork will begin v	Wo Demolition w	a snotsoffications. N	S		te vino ese	but if used, pl	the Contractor,	optional with
CENERAL NOTES AND QUANTITIES	the drip lines of the slah. The	no harataan yero kana kana kana kana kana kana kana kan	mied brid		ber KDOT/	Field Engineer	ent of analy not	tilomed beliete	p		se 1deo	(a 'buidiom isi	ignein im einn Ionaid adt no be	otherwise not
	fied as Light 200 Pounds. Place a	ilissel) anois garqiy asu .	nteet 01		ticadus aoi	tilomaQ A viop	eteD e al ainT :S	SUAJ9 NOTTIJO	DEWO		to sepbe b	əsodxə ile ləvə	9 (3A)(0.4 9bi	510) 91910000 115
TVIZY DEVELOPING OF LIVER VIEW	on the plans or as directed by the	nworts and thickness shown	mil edt of					TIPOT NON INCOME.			se bid si s	ructure concret	E)(SW) Subst	A)(0.4 sbsr0)
	(Slope Protection (Riprap Stone)	ECTION (Riprap Stone): P	SLOPE PROTI		λie	pisqns si ing 'A	r pain ror directly	non si nonsagen mati bid tatto o	4		ateror	O as bid ai eter	structure conc	CONCRETE: Super
HTTING RATING RA					AL N	lowester "2" talsewor	Select (St direct	901 01 1803 00 11	5		work is struck.	il atter the tals	el le llop elli pil	ססעונאר וואזר' פח
5 08/S/JS VDDED N013H2 V N013H2 AN O	, and Special Provisions.	nstruction, 2015 Version,	Bridge Co		tud ,but	pe tully enforce	IIIM "I VIODATE"	10 109manupa	1		, , , , , , , , , , , , , , , , , , , ,	-1-3 - 44 - 0+30 li	or lenge oft bli	COBBAL BAIL 601
4 4/T/M Current Relacee JPJ CER	renses vepariment of anote for bead and	solition. Standard Snecifica	hogeneit		d review	nspection and	upports; then the	ns lealdy1-non to	5	(OFFAB) teed?	ard Pile Details	llow the "Stand	of Iliw 8 .oN bri	9 'S 'ON 't 'ON
5 2/4/15 Modified Per 2015 Specification JPJ CER	to themtheored search	N SPECIFICATIONS N	CONSTRUCT		" by the use	r vrogeteo" ser	alsework becom	ontractor the f)	2' Nº: 3'	Piers No. 1, No.	bne S .oN bne	oll striamind	criteria for, A
RED LAW ROLLAG ISSBTOM BOTBEDAA BEDDAA ZINEINON a		ieer.	ມເβu⊐ ອບາ		e of the	the convenienc	changes. If for	pproval of the o	3	nnitaet ble	w bne anoiteool	gral pile splice	OCATION: Inte	FILING SPLICE L
	t locations approved by	ly at locations shown or a	joints on		nettinw et	scord will provid	n Engineer of Re	alsework design	1		- Chu -a			
	sed, place the construction	with the Contractor. If us	lenoitqo		adt	lans are found.	d belees bre be	rom the approv	ł	pue stua	901100 au 16 2 (140	vd behivib I dtr	v sonsieres an	the suot CST
See KDOT Specifications.	uction joints shown are	ION JOINTS: The constru	CONSTRUCT]		100X (0.2		teh stoveslet ti	.snoitesificaq	3	avind . Drive	d themanent p	emain in place	Thens grinid an	t of pulling adt
					ueid xio	wester near tell	Dich are concide	w stnamariupa	2014-1	leise	I WITH KDOT SP	neilqmoo sbort	am bne tramq	upa lazyisna
	V drade and cross slope	ry allowances for roadway	necessa				- HI WOILD	EWODN INCOLS	SIVE	e Driving	Layout. Use Pil	e Construction	1 no nwods an	oiteool adt te
	erwise noted Make	etto sselnu snoisnemb le	porizonta			eer for review.	nign∃ blaiH adt c	or suonsonioado	2	tnemgiups	a nextlenA privit	D slig off each of the D	BAISHED PDA	CONTRACTOR FL
	ore adela apiaeh edt do	awoda anoianamih IIA '2	DIMENSION		100	IN driw sonsildr	th details in con	iw noitsofficed	3					
	riems in the proposal.		לתפוונווב		tq.	ebnet2 and to a	101 noitoe2 of pr	nimiotroo enelo	£		(wai) watanin	Burner an Law	'pəsn ə	equipment bi
	ately in the Summary of	ETEGAS Detailing the ethoria			actronic	eer. Submitele	nign3 lenoisesto	or9 bezneoil e to)	ອບາ 'ມ	(VUB) Jozyfeur	neivin Driving	1 tedt tsaupar V	Engineer mar
		1 CALCERT 4			leas ant 1	read lieds sliete	work details. De	eslet ett neiset)	elumo-	BUINDU SILA SU	no apportance	de vitreoitinois	road occurs,
					light chall	ring legoiseat	A licensed Pro	EWORK PLANS	SIAF		e problems are	il location whe	IB IA . DBOJ PIII	haonainanya
59'0 09 L8 '9 % S 't 'E '7 'L SJƏLA	si snoisnemib lle for eiu	RE: The design temperat	UTAAAMAT	Tipinison		1.100.000.00	no un la compañía de			bu	10% of Pile Driv	r nert arom of	e bile pe quiveu	u) lieus aseo
Abutments 1 & 2: 80 55 0.65				'Se	muent io Vienn	the sin in use	heriuner eferioroo	oo lenotibbe ynA	/	on ni tud	,noitettenen	is beol ant of al	in drive each pi	uminim 6 2A
Design Loading (Tons/Pile) Strength Service Phi	ational information.	bbs 710-2 for add	dsT 017	· A.O 9	'SE SI SI 9111 101 D	anuparaiaianon ang att ai babi	uladi si ataranna	This amount of the	-		suc	L08 2	.oN insmindA	10 (COND.1900) (COND.1907)
LRFD DESIGN PILE LOAD:	C Specifications Section	he curing period. See KDC	lt pnirub	10,787			is add to function	The theorem and			suc	L 18	Pier No. 6	
	Veriate deck wet	he curing period, keep any	during ti					'sueid aur u	0.		SUC	L 18	Pier No. 5	
seligies to seligi	unc is permitted on the	ינטא בטאטט. בווחונפט לפקר מ	LOON ENOO	uwoda	s 19dmso yeb 02 :	edt of leupe si t	e qesign cambe	41 .%+ Jaqueo			SUC	T 18	Pier No. 4	
Reinforcing Steel (Grade 60) 19 = 60 ksi	11 1	10110100000000000000000000000000000000	LUIGTSNOD	1	er than the design	all be no greate	d, the camber sh	Prior to shipping	ni Ni		SUC	T 18	Pier No. 3	
Concrete (Grade 4.0)(AE)(SW) f c = 4 ksi	*	ant of concrete in the dec	placeme		ioni e bel llene noi	nued pribulani	b over the beam	depth of the sla	Č.		SUC	110	Pier No. 7	
Concrete (Grade 4.0)(AE) f'c ≡ 4 ksi	is required prior to	i eoneupes etennetie s'rot	Contrac	200.10	minim ed Tielen	he theoretical o	t of befourtanoo	finshed floor is	B.		suc	108 /	Pier No 1	
ONIT STRESSES:	ent to levorgqA "(WS	s)(3A)(0.4 sberð) steror	0" ,məti	SUPIC SUPIC	edt og megd gdt i	iave stallit eter:	epth of the conc	by varying the d				100 1	old troomtudA	
	subsidiary to the bid	e and shall be considered	əsuədxə	eacte	ani naawiad nous	and the transferred he	o inisso nass re	e nedmes leutse	6	24.1			:to beoJ elui	Driving Form
	the Contractor's	te ad lleda , satutximbe p	nibuloni	A p A	amber in the field	o eni enuseem ,	Deroer heard, for a lo	taking a profile o		alig art c	prizi on to nonitional of the synd	age the piling.	meb yem privi	ab lenoitibbe
		nampas priosiq nosa mo Internatio s'intositrio.) adt tot	aut	curvature. After	essary, vertical	Den il pue uono	sed hessertzeru		elland bland	ransav an no	do mad in anna	gota lleda privi	Bedrock. Dr
future wearing surface.	to vinted the dual of the set	niximbs besogorg (siero	1003 901	erete	uoo 'Jaquieo ssaj	ovide for presti	r the beam to pr	970 19111 901 10		-1-40 pc	and tool off an	ni read no eten	anag of puilig l	PILING: Drive al
Design Dead Load includes an allowance of 15 psf for a	bujpejd uj pasn tuaudir	upe ent to notigitoseb 6 ,	nousool	dith	s by varying the d	ck to plan grade	pep paysjuli aut	ISER: Construct	MH-D		stnemtude ent	pact backfill at		
	tuiol notion joint	y, placement direction, co	Gioedeo	'n	aleop an iou naai		noo fundo un		100					BACKETU COM
HT-53	tnstq sht, the plant	neseld effecte placen	blopose	P SJ	et non bar had had bar	env : (ooe) e	eoo vxooa diiw i	toetnoo ni emoo		1000 0000000000000		.noit	eveoxa yeq to a	timil add tot
DESIGN LOADING	Conference, Include the) noitounstruction (Enginee	pap	32, and are includ	M UTH2AA101	(00 10 04 .10) CT 0012 D010101010108	I" meti bid edt n		Jeeds noit	eveox3 epbh8 e	e plane. See th	t woled II ase	D ,anelq adt
	icing sequence to the	Submit the alternate pla	.wəivə1	J	e requirements o	us may meet th	ed lenige .ue aut	30 CLOANCOM	ra 16	avode I	eselO ;notteve:	x∃ II sselO bne	I seelD to ane	Boundary PI
Specifications. Load and Resistance Factor Design.	ate placing sequence for	stor may submit an alterna	Contrac		to striements of	form to the req	upo lleda, sted ll	ends en ideoxe	i.	noiteveax3	adt atenpizab I	eda 03.7868 no	iteval3 :NOIT/	BRIDGE EXCAV
minari teations. 2020 Edition and latest Interim	shown, or the	e se ad lleda sontorio de	la ent ni		leinforcing steel,	vise noted. All n	rs unless otherw	centerline of bai		'6uud vua	אוווה מסחוווופ			
DESIGN SPECIFICATIONS:	eterence priecla 30 conclubes e	PLACING SEQUENCE: Th	CONCRETE		ens are to the	isnamib laate bi	EL: All reinforcin	NFORCING STE	IBB	UMOUS SE	2109m)uas eni. Sertude edt paiv	a menualization to dri	ann sraigmoo	on the Brido
	syall be used on this project.				STION TAN	NEN						is the contraction	odt otolgran)	FMBANKMENT
DESIGN DATA	E: Only steel pile HP12X53	HON *				41120								
		.06 @ 9	S. ON InsmindA	Auh ani miw	aspiolocimik	പകയില	0 -041 401 4							
	ADG edit htiw esu r	13 @ 79' & 1 @ 89' for	Pier No. 6	100 11 11		13 © 19/0 15/00 572	Pier No. 2							
38 Supports and Spacers for Reinforcing Steel		14 @ 12.	Pier No. 5			14 @ 41.	Pier No. 7							
37 Standard Pile Details		14 0 11	Pier No 4	Add adt dth	1 @ 68, for use w	1 20 28, 8	.oN InsmitudA	<u>ک</u> .	itneu) leto i ."	rue enbersi				
36 Bridge Excavation	70	tt/ 60/1	tel Dilling	ieuunis 4		1	1		ni bebuloni ere	seititneu0 **				
Standards		// ///	VOL	3	96	₽'989'S	5,676	28'120	010,012	8.814	1'77/	816	0+7	10101
	70	+/ LOCL +	+(1				5,576		010,012		122.1		070	
39 Bridge Plaque Details		VL	POL	<u> </u>	96	969'9		28'120		8.814		816	0+7	letoT standig
		(0	-									610	870	Substr Total
	LC LC	22	96		9	240		2'990	**	8'61	**			7.000.000
Z9-33 Superstructure Details				L	1	911'1		908'8	**	2.59	4, 4,	601	02	S old triamtildA
					14	1'020		S08'8	**	2.59		701	07	Pier No. 6
Slieta Inamina da 20					14	714		908'8	**	2'29		0+1	33	Pier No. 5
λίοιορη συστάτιου το				L	14	654		S08'8	**	7.29		811	55	Pier No. 4
					14	930		908'8	**	7.59		001	1.77	Pier No. 3
					14	17LS		S08'8	**	7.50		160		Pier No. 2
	18	28	86	I	9	328		099'Z	**	8'61		371	L	Pier No. 1
	spA bs	sby .ps	SDY .UO	UD61	במכון	21110	Wit	-sq7	'san	-0.01	·SD1 'DO	1001-100	82	F.oV fnemtudA
		Grooving Protectio	(anot2 gerqiA)	Adq	Points	HP12x53	(Et (NU43)		(na)pon (wed-)	(34)		Shi Vie	shY .uO	
	InemiuaA II	Deck Backwal	Protection	Furnished	Sleel Pile	Steel	Concrete	(Grade 60)	(00 9D610) (heteo() vxog3)			TT CODE		
	treating	Bridge	Buols.	Contractor	taeO	* Piles	Prestressed	Jeers Buis	Keintor	(0. v ober0)	(0 N ahe10)	II aselO	I sselO	məti
20 31 KOOC 10-20C2-2 25 242WAY							SEITIINAUU		S	01010	000	vation	eox3	
TOTAL AND STATE														

subsidiary to the bid item "Slope Protection (Riprap Stone)".

91 'ON '45

DE216M CK* 10ELVIE CK* 10NWECK* 1CV0D CK* DE216MED 0ELVIEED 0NVMILLEZ CV0D CK* 2HEEL NO* 0E 2CVTE Vbb-D

Engineer is not required.

File: 230/820_bbr-0/_General Notes and Quantities.dan

GENERAL NOTES	
6 IO/19/15 Added Asbestoe NOT 9221 Option JPJ CER 5 2/4/16 Modified Per 2015 Specification JPJ CER 3 2/2/14 Modified Per 2015 Specification JPJ CER 3 2/2/14 Added Benchmark JPJ CER 3 2/2/2/10 Added Benchmark JPJ CER 1 04/23/10 Added Benchmark JPJ CER 100. DATE REVISIONS BY APP'D	
	of existing structure is i Structures", Lump Sum. Property of the Contractor. property of the Contractor.
	rent and pler concrete has cured 'esent verification to the Engineer n elevation (± א").
	ed concrete with select coarse and the plans. Submit mix arch for approval.
	as required by the KDOT n construction (placing offs or onther devices into ses approved by the Engineer. pecifications before placing k used to support the plet as required by the KDOT as required by the KDOT
	"nisna qitis tnemtuda" ent ca
	ply a Bridge Backwall Protection rts and the wings in accordance n on the details, not including the repair any damage done to the
	offing as required by the KDOT construction (placing resteel or bolts, coll inserts or other devices thout the approval of the Engineer. Curing d as required by the KDOT
08 71 PS02 10-3024-3 86 (28084)	k has cured, transversely groove ations. For phased construction a to traffic. Align the grooves edeck without jogs or discontinuities. Pendicular to the centerline of the bridge.
PROJECT NO. YEAR SHEET NO. TOTAL SHEET NO.	GENERAL NOTES

OUANTITES CADD CK.

DETAIL CK.

ERICH CK" ERICHED HEFT NO" OF

> BRIDGE DECK GROOVING: After the bridge deck the deck in accordance with KDOT Specificat groove each adjacent phase across the bridge from each adjacent phase across the bridge For skewed bridges all grooving will be perpe

- COLUMN CONSTRUCTION: Cure the column foo Specifications before beginning the column o formwork). Do not place cast in place shear t used as falsework support in the column with used as falsework support in the column with used as falsework support in the column of the used as falsework support the continue after the formwork is removed shall continue after the formwork is removed specifications.
- BRIDGE BACKWALL PROTECTION SYSTEM: Appl System to the approach side of the abutment with KDOT Specifications and the manufactur the abutments and wings to the limits shown top of the pavement rest. Prior to backfilling, system at no extra cost to the County.

ABUTMENT STRIP DRAIN: See the General Notes sheet.

- PIER BEAM CONSTRUCTION: Cure the columns a Specifications before beginning the pier beam resteel or formwork). Do not drill and grout bo the columns used for falsework support unles pier beam concrete. Do not remove falsework pier beam concrete. Do not set girders or beams or peerlitations. Do not set girders or beams or the falsework is removed or the pier beam con the pier
- PRESTRESSED BEAM CONCRETE: Use air entrainec aggregate as specified in the Special Provision SS day strength requirements shall be as notec designs to the Bureau of Materials and Resear
- ERECTION ELEVATION CHECKS: After the abutme and before setting any prestressed beams, pre that the elevations at the bearings match plan
- REMOVAL OF EXISTING STRUCTURE. Removal of included in the bid item, "Removal of Existing 5 The Contractor is to salvage the guardrail from place on the county R/W for county to remove from the existing structure shall become the p Remove all other material from the site.

td. Base File:	
^o lotted By: bwilkinson	Plot Location:
File: 230/820_bbr-0/_General N	s and Quantities.dan
Plot Date: 26-11N-2024 In-42	



FAS 70 Bridge Replacement Hamilton County DESTONED DETAILED QUANTITES EADD CK DESTONED DETAILED QUANTITES EADD CK	: Cut in NW Cor. of Cone. Slab 26, 52.34' Rt,, Elev. = 3347.75	te+32`2 5: Box
NO DATE REVISIONS BY NO DATE REVISIONS BY ROU D0000000038B070 S18, 50+00.00 SHEET 1 of 2 SHEET 1 of 2	'8 & Zhoofiy Detour	
	M/X 15 M/X 15 Sta. 47+67.50 Sta. 47+67.50 Sta. 47+67.50 Sta. 47+67.50 Sta. 47+67.50 Sta. 47+67.50 Sta. 47+67.50	
SCALE : 1" = 20'-0" Contour Interval = 2'	6' 150% 14'0' 14'0	
Formed Concrete Opening Size 2%" 2%" 2%" 2%" 1%" 1%"	Piaque	Bridge I
EXPANSION JOINT WIDTH DETAILS (W2)	+00 Temp. Esmit. =	
Add	SECTION 28"-0" Roadway 28"-0" Roadway	
e @ 20. iles @ 40, 33340 _ Excavation Boundary	Top of Piling Elev. = 3328.04 Elev. = 3328.04 Top of Piling Elev. = 3328.02 Top of Piling Top of Piling	Hb 15×
3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 50 50 50 50 50 50 50 50 50	© Pier No. 2 Sta. 47+67. Elev. = 3357 Elev. = 3351 Elev. = 3351 Elev. = 3351.	
Design Velocity @ (Q100) 94,000 cfs Design Velocity @ (Q100) 9.2 fps Overtopping Elevation 3345.67 Ft. Overtopping Elevation 3345.67 Ft. Discharge (Q100) 9.2 fps Overtopping Elevation 3345.67 Ft. Discharge 20,000 cfs Discharge 20,000 cfs Discharge 0,000 cfs	622:-0. End to End of Wearing Surface	"O-,Z6
TATE PROJECT NO. YEAR SHEET NO TOTAL BINDARS 38 C-5206-01 2024 19 80 Drainage Area 26 Area 20,019 Sq. Mi.		

6L ON US



08	50	2024	38 C-2506-01	RANSAS
eraque		NW31	PROJECT NO.	SIAIS







/101

bed-ssor) anotsbrieß		Gypsiferous Shale		Boulders	-	File : H
atimoloQ		Sandy Sandy		Isvel	代加度进行进 系列系列系列	amilton (
pəq WnsqMƏ		Black or Fissile Shale		pues		lkinson Co Geolo
Shaly Sandston		ymi) Sled2		łlis		26-JUN gy.dgn
notebne2		Silty Silty Shale		Clay Clay		1-2024 10
Weathere Shale	Ħ	Saliche	۲ ۲ ۲ ۲	Underclay or Underclay		0:44
аядайА	/TS			10		
9Þ	7) 		maanu (operati	94	3540	
					0070	
					3360	
					3280	
					3300	
					3320	
					3340	
					3360	
			100000000000000000000000000000000000000		3380	

KDOT Standard Specifications. Do not drive pile below plan tip elevation without utilizing restrike procedures as outlined in the from the pile tip elevations shown in the plans due to the variable nature of the geology here. through the use of the Pile Driving Analyzer. These final pile tip elevations could vary significantly Final pile tip elevations should be determined in the field based on recommendations provided Piling: Once sufficient resistance is achieved, driving must cease to avoid damage to the pile.



TOTORO State of the stat
90 90
90 90 91 91 92 92 92 92 93 93 93
90 91 92 93 93 93 93 93 93 93 93 93 93 93 93 93 940 940 95 95 96 97 97 98 97 98 </td
33260 Sandario Sandario Sandario 33280 Sandario Sandario Sandario 33280 Sandario Sandario
33360 Standardia 33340 49 33240 49 33360 Standardia 33360 Standardia
50 3380 3380 3380 3380 3380 3320 58 3320 58 3320 58 58 3320 58
3240 46 20 3280 MEATHERE SHALE 33200 GRAVEL 33300 GRAVEL 33300 SAND 33300 SAND 3380 SAND 3380 SAND
33560 SHALE 33280 SHALE 33300 GRAVELW 33340 STL 33360 SHALE 33360 SAND 3380 SAND 3380 SAND 3380 SAND 3380 SAND 3380 SAND 50 SA
3380 33300 33340 33340 33380 3380 3380 3380 800 800 80
33300 33340 33340 33360 33360 33360 20 20 20 20 20 20 20 20 20 20 20 20 20
90 3350 3350 93 93 93 93 93 93 93 93 93 93
3340 3340 3380 80 80 80 80 80 80
3340 3380 880 66
3380 93 90
BW BIS 09 05
05
09
20
09
20
W
15
o









Plotted by : bwilkinson 26-JUN-2024 10:45 File : Hamilton_FAS 70_Pier Details.dgn



.0-,17

"O-,t

e Rdwy /E Bridge e Pier Symm.

..9-.1/1

FF Indicates Far Face EF Indicates Each Face NF Indicates Near Face LEGEND

Variation County

08

TOTA

27

SHEET NO.

2024

YEAR

38 C-2506-01

ом тоэсоляя

SARNAX

3TAT2

UV SAF YTUUOD NOTJIMAH

Project No. FAS 70 Bridge

Plotted by : bwilkinson 26-JUN-2024 10:45 File : Hamilton_FAS 70_Pier Footing and Web Deta

#5P81 Stimup (.m18 & qoT)(stis9 nT)

#5P81 Stirrup Spa. (.mt8 & qoT)(stie9 n1)

3.

5-10

.9-,7L

2-#382

180

"0L

Bar

€poxy

bəteoD

Bearing plates (\$ X 1-4" x 3'-0%")

Elastomeric Brg. pads (3, x8 x3-0")

seoiveb gentill

1" Formed Holes

82

82

5.-4.

99

211

89L

99

.9 "½ su ssiwnanto

welding will occur,

bleif nedw 🖪 "🌾 esU 🌣

Each

Each

Each

Each

05 .0N .AS CVD0 CK 2 C

Hamilton Co.

MILL

שרר

HAM

DELYTCK 2'C B DOWNER

NU43 BEAM DETAILS

Proj. 38 C-5206-01

62.0	0.352	0,440	782.0	0.88.0	1921	9#
02.0	0.247	0.308	114.0	219.0	1.234	S#
013	091.0	0.200	762.0	0.400	008.0	7#
70.0	880.0	011.0	741.0	0,220	0.440	8#
"8F	"Br	15.	"6	"9		əziS
SA JE	ENT STE	EQUIVAL	SCEMENT	BEINFOF	DED MIRE	+ MEL

9

3

3

equal to or greater than typical beam section above. beam section above. The equivalent As for the WWR shall be shall be equal to or less than the vertical bars shown in the typical steel bars shown on this sheet, the spacing of wires for the WWR † If Welded Wire Reinforcement (WWR) is used in-lieu of reinforcing

							-
цtbuəл	əziS	oN	Mark	Гелдтћ	əziS	-0N	Vlark
	pars	fneß			sted tr	gieut	
		_					r
"9-,S	S#	546	QBJ			1	-
	tz#	021	82				-
4.8	V 71	to blance and the second se			_		
.8-,⊅	t#	38	83				
4,-8,, ∆,-8,, 5,-0,,	7# 5#	38 94	83 84				
√1.°8. \8. \8. \8.	5# 5# 6#	38 94 54	83 84 85				
4,-8,, 2,-0,, 5,-0,, 5,-0,, 5,-0,, 5,-8,, 5,-0,, 5,-8,, 5,-0,, 5,-8,,5,,5,,5,,5,,5,,5,,5,,5,,5,,5,,5,,5,,5	7# 5# 2!S	38 94 54 No.	83 84 85 Mark	цĵбuәт	əzis	.oN	Nark
Ч8" 8" 5" 8" 8" 8_ 6,6, 6, 6, 6,6, 6, 6,6, 6, 6,6, 6,6, 6,6, _6, _6, _6,6, _6, _6, _6,6, _6, _6, _6,6, _6, _6, _6,6, _6, _6,6, _6, _6,6, _6, _6,6, _6, _6,6, _6, _6,	#4 #3 #3 #3 #3	Bent 38 24 54	83 84 85 Mark	цĵbuəŋ	sisd fr Size	Straigi .oN	Nark
4'-8" 7'-8" 2'-0" 2'-8"	#4 #3 #3 #3 #3 #3 #4 #3 #4	38 64 74 864 74 864	83 84 85 Wark	цтрпэл 1 Г) твэв	92°-0" Size	Straigl .oN	Mark

Plotted by : bwilkinson File : NU 43 Beam Details 26-JUN-2024 * s_br351.dgn 10:45

08	3J	5054	38 C-2509-01	2A2NA3
TOTAL STEETS	SHEET NO.	ЯАЭҮ	PROJECT NO.	TATE

over any oversized holes. Use $\Re_{6}"$ plate washers over any with the KDOT Specifications. Use hardened steel washers Galvanize the angles, bolts, nuts, and washers in accordance hex structural requirements of ASTM F3125 Gr. A325, Type 1. nuts, and washers for fasteners shall conform to the heavy all angles and bent plates for temporary diaphragms. All bolts, TEMPORARY DIAPHRAGMS: Use ASTM A709 Gr. 36 steel for

including filling the bolt holes, shall not be paid for directly, necessary for the installation of the temporary diaphragms, review and approval. The material, equipment, and labor the temporary diaphragms to the KDOT Bridge Section for the property of the Contractor. Submit shop drawings of diaphragms, angles, nuts, bolts, and washers shall remain beams with an approved epoxy grout. The bent plate bessentsend ent ni selon ent llit bne smeed ent mont selpne concrete diaphragms and deck have cured. Remove the concrete. Leave the temporary diaphragms in place until the as shown in the details, prior to placing any superstructure DTI's are not required. Install the temporary diaphragms, turned elements. Use the turn-of-the-nut tightening method. slotted holes along with hardened washers under the

"sme9a

TYPICAL SECTION (RU35 & NU43) (Weight = 9.45 Lb. each) (84 each Red'd.)

Plotted by : bwilk File : br305A.dgn Ö 26 10:45

Symm.

Dead Load Deflections (Deck, Diaphragms and 27° Kansas Corral Rail)

Dead Load Deflections (Deck, Diaphragms and 27" Kansas Corral Rail)

£ 1016t #3

5 Equal Spa. = 46'-6'

CONCRETE HAUNCH DETAIL msa8 2 @ (.niM) '#

CAMBER:

depth of the slab over the beam including haunch shall be 9 inches. Prior In the plans by varying the depth of the concrete fillets over the beam so that the finshed floor is constructed to the theoretical grade. The minimum variation between the actual camber and concrete dead load deflection shown and, if necessary, vertical curvature. After the prestressed beams are erected, measure the camber in the field by taking a profile of each beam. Correct any Construct the finished deck to plan grade by varying the depth of the fillet over the parm to provide for prestress camber, concrete dead load deflection and the parm to provide the prestress camber, concrete and the prestress of the prestress

Any additonal concrete required to construct the fillets will be subsidiary. This amount of concrete is included in the Summary of Quantities. The theoretical amount of the concrete required for fillets is 35,6 C.Y.

to shipping, the camber shall be no greater than the design camber +%". The design camber is equal to the 50 day camber shown in the plans

00 00+05 etS Br. No. 000000000388070

07 SAT YTNUOD NOT JIMAH

NAJ9 BAJ2

Project No.: FAS 70 Bridge

'882.0 = sneq2 IIA Beam Camber at 50 Days

¢ biet #2

10 Equal Spa, = 93'-0"

0,119

0.11

0.073

0.06

0.000

0.00

0.073

10 Equal Spa. = . 93'-0"

0.125

0,106

10

0.09

ZE ON 4S Yamilton County

TYPICAL SECTION Project No. FAS 70 Bridge Project No. FAS 70 Bridge Hamilton County

66 I.ON .AS

03 Current Release 84 APPD 01 06-30-05 Current Release 84 APPD 01 05-30-05 CRASTONS Sta. 50+00-00 01 05-30-05 CRASTONS Sta. COP 01 05-30-05 CRASTONS Sta. COP 02 000-00000038B070 Sta. COP OO 03 000-00-05 Sta. COP COP 03 000-00-05 Sta. COP COP <tr< th=""><th>BENDING DIAGRAMS All dimensions are out to out of bars. A Bend this leg to match the slope of the roadway.</th><th>-8" </th><th>لالعام العام الع مام العام ال ماليا ما مع ما م ماليا ما مع مام العام العام العام العام العام ا</th></tr<>	BENDING DIAGRAMS All dimensions are out to out of bars. A Bend this leg to match the slope of the roadway.	-8" 	ل العام العام الع مام العام ال ماليا ما مع ما م ماليا ما مع مام العام العام العام العام العام ا
# See Bending Diagrams Rent Ears Manke Size Number Langth Alta 197 Bars Manke Size Number Langth Marke Size Number Langth Alta 197 Bars Marke Size Number Langth Marke Size Number Langth Alta 197 Bars Marke Size Number Langth Marke Size Number Langth Alta 197 Bars Marke Size Number Langth Marke Size Number Langth Alta 197 Bars Marke Size Number Langth Marke Size Number Langth Alta 197 Bars Marke Size Number Langth Marke Size Number Langth Alta 103 Size Marke Size Number Langth Marke Size Number Langth Alta 103 Size Marke Size Number Langth Marke Size Number Langth Alta 103 Size Marke Size Number Langth Marke Size Number Langth Alta 10 Size Marke Size Number Langth Marke Size Number Langth Alta 10 Size Marke Size Number Langth Marke Size Number Langth Alta 10 Size Marke Size Number Langth Marke Size Number Langth Alta 10 Size Marke Size Number Langth Marke Size Number Langth Alta 10 Size Marke Size Number Langth Marke Size Number Langth Alta 10 Size Marke Size Number Langth Marke Size Number Langth <td>Intermediate Non-Epoxy Costed - (Gr. 60) ADS, PDS, PDS, R PD7 ADS, PDS, R PD7 ADS, PDS, R PD7 ADS, PDS, R PD7 ADS, PD2, R P1, R P1, R P2, R P1, R P2, R P2, R P2, R P1, R P2, R P2,</td> <td></td> <td>².6ⁿ ²</td>	Intermediate Non-Epoxy Costed - (Gr. 60) ADS, PDS, PDS, R PD7 ADS, PDS, R PD7 ADS, PDS, R PD7 ADS, PDS, R PD7 ADS, PD2, R P1, R P1, R P2, R P1, R P2, R P2, R P2, R P1, R P2,		² .6 ⁿ ²
ТАТЕ РROJECT NO. TOTAL STATE 738 C-5206-01 2024 35 80 КАХАЗА 38 C-5206-01 2024 35 80		", ", t'	

the survey of

BRIDGE PLAQUE DETAILS

BRIDGE PLAQUE

2025

XXXXXXXXXXXXXXX **CONTRACTOR**

KIRKHAM MICHAEL & ASSOCIATES, INC. ENGINEEBS

> FRANKIE D. BURNS, SR. SUPERINTENDENT OF RURAL OPERATIONS

FAS BRIDGE NO. 70

NIKKI SCHMEBDEEGEB PUCKETT CHAEL W. LEWIS **NAM3JO3 YUNA JOHN R. SIMON COMMISSIONERS**

The Contractor shall provide a shop drawing to the County and Engineer prior to ordering the marker.

plate is to be black with bronze lettering and border.

Market to be furnished and installed by the Contractor, <u>subsidiary</u> to the bid item "Concrete (Grade 4.0)(AE)(SW)" (1 Required).

Furnish a rubbing of the Bridge Plaque to the Engineer for approval prior to casting. STION

08	36	2024	38 C-2509-01	SASNAX
JATOT 2T33H2	SHEET NO.	ЯАЗҮ	РВОЛЕСТ ИО,	TATE

				24. 0V 19942 99	14 8 a9i 80 N 16	e Sheet No. 1010 Quantit 2 Sheet No. 5 1948 Sheet 1948 Sheet	or Surfacing Quantities Se or Temporary Eroston Cor or Temporary Eroston Co or Traffic Control Quantit
_		_			_	_	
_	-		-			_	
	_						
			-				
		_	-		-		
		_					
_							
	-	_			-		
	_						
	-	_					
					_		
_	-						
_	-	-	-		_		
		_			-		
1100-1	_	_			_	10.2	(1) munu toplao 5 mb
mu2 qm	m	wns	dung			(6.9)	tring Environment
sbY u	C	Z	33			Бu	too'l del2 doeorqqA spbir
Spl p	S	8	50	(.qqA	-18)	(3A) (miotin	101 U 100 U 101 U
Loch Fach			v v		_	L# 114 (1	92) IenimieT brid lieibieu (13) IenimieT brid lieibieu
.17 .n.l		0	01				uardrail, Steel Plate
17 U		0	45				ross Road Pipe (84") (CSP
SpA no		0	er L	(ect Price)) (ə1t	(Aggregated)	emporary Surfacing Mater
A. Gal.			L				(soling) (Set Price)
SDY U	2	55	6L	6	6-5-8	M) (AA 90VT) anowning to notoeqmo
.sby u	0	LL	t'L		pays	actor Furnie	nno) noheveox3 nommo
sbY u	0	8	18				ock Excavation
who day	0	33 2010	233 dwn		_		earing and Grubbing
spl 'n	C		[.			(solid tes)	oncrete for Seal Course (S
ung du	rn1	uns	dunn dunna		_	991	utaunt2 priteix3 to levome
SDY U	0	uns	L		_	(eoing rece)	 S) nottestilidetS nottestilidet
цэв	I		l.			(A eqy	T) yroterodeJ & sofftO bla
uns du	INT	ung	rum			aking	d2 noitourteno3 rotaerino
LINI							
		2			U I		
	_	_			-		
					-		
					-		-
					-		
			9L			20+00 00	020886000000000
		°C	HEET N	S 33S		NOITAT2	BRIDGE NUMBER
	9	IE		DE BRIDGE OUP	N		КЕСАРІТ
	-			255			
	40		₽Z0Z	10-9029-0.85	_	SAZNAX	
80				10 1003 0 00	_	0.0000	
80							

					К	RUWOR	Е∀В						
PLACE,	(SO) (MENT		T SUBGRADEI ETIID HEIIDR	-ON	N	OMPACTIOI	0	CONTR	I N	XCAVATIO	іі Э		
	WENL SELLFE-	CONSOL.	CU.YDS, CU.YDS,	CN ADZ COWW		CN'AD2' WB-30	CO ADS' WB-2-2	CD XDS EDBM	AME	CU.YDS. ROCK	AWE N	CULYDS. COMMC	NOITATS of NOITAT2
			 			4,644		£61,8					- I 92679 00.01+9201 of 00 00+4401
						1'586	161	1,284	00 [°] L	818	0'J2	689	43+00.00 to 56+00.00 Phase II -
											9Z'0	4,644	Phase III - 1044+60,00 to 1050+440
[]													
	_									_			
			-										
							· · · · · · · · · · · · · · · · · · ·						
			 								_		
											-		
						2'633	LGL	LTA,T		318		2°333	SJATOT
						2'222	161	1/+//	1 1	919	I I	0°00	SJATU I

Bridge Approach Bridge Approach Kemarks

🔺 See General note.

.(ətoN lenənə General Note).

SAITITNAUD 70 YAAMMUS

DNVKCK IBVCECK SWK DNVL111EZ IBVCED B V B

BOL SLA

KANSAS DEPARTMENT OF TRANSPORTATION Detalled on CADD REVISIONS

RD050

DETAIL CK.

ESTENCO ESTENED IMA APPEROVAL

10-00-10 10 TAG 0N

REMOVAL OF EXISTING STRUCTURES

		(For Information Only)
3 @ 39. × 90. CBP (CSP) *	Э	1046+622
9 @ 84.×30, CBb (CSb) ∗	Э	00'05+6101
Bridge No. 000000000380070	Э	20+05'00
DESCRIPTION	SIDE	NOITATS

* ShopFly Pipes to be Stockpiled within the Existing Right of way for removal by County Forces and Funds

	FOOTING	OACH SLAE	вилосе Арря
--	---------	-----------	-------------

sbYO	(т.) цібиал	noitet2
8.3	82	00.14+81
8.3	58	00 19+91
8.8	58	00'6E+89
£.8	82	00'65+89
33.2		TOTAL

CONCRETE PAVEMENT (10" UNIFORM) (AE) (BR APP)

208				TOTAL
1.401	58	55	00'6\$+£\$	23+56.00
1.401	28	33	46+74.00	00.14+44
.sbY .pS	(Ft) (Ft)	(Et) Length	noitet2	noite18

Plotted by : bwilkinson File : rd050.dgn 26-JUN-2024 10:47

NTRANCES SING OF SIDE ROADS	DETAIL FOR SURFAC 8 HOUSE E
МОИИР ЕИТКАИ	WITH DRAINAGE STRUCTURE
é bio	Edge of Surface
Vivi + 21, *	Edge of Surface

CE OK SIDE KOND

RD051

▲ St3 Slope at the appropriate clear zone shall apply to all mound entrances height.

for over 10' fill height. for over 10' fill height.

A On side roads and entrances which appropriate clear zone width. Normal Slope (but not steeper than
 1) at approximate & Structure or

adyi Noat nendee of suonimula beginsit 'sueld aut

(Surfacing)

SUMMARY OF QUANTITIES

NOITATROGEMART OF TRAMER DEPARTED

LU 'ON '45

64 APP

SWK JOB

SWK JOB

SWK 108

evised compaction, tack type/rate

divert surface drainage into the high-way ditch, unless otherwise shown on slope toward the highway, a low point approx. 6" deep shall be constructed to

03-54-02 90-06-80 15 01-10-01

SUO

TINU

Suorider Line

Ditch

972 Tons 1,045 Tons

JATOT

TINU JTAR ITEM

RATES OF APPLICATION

<u>.906</u><u>975</u> ...

calculated at the rate of 0.06 gal. /sq. yd. Engineer and at the rate designated by him. Quantities are included for these tacks placed on an existing asphalt, brick, or concrete surface, when so ordered by the surface courses and under the first lift of base or surface courses when they are A tack cost of SS-1HP shall be provided between each lift of all base courses and for other normal unevenness encountered in placement operations. basis are approximate and may vary to correct for unevenness in the foundations or

1 Computed at the rate of T Computed at the rate of

RECEPTION OF QUANTITIES

MA (Commercial Grade) (Class A) Surfacing Material (Millings)

ITEM

Surface Material (Millings) shall be provided by Hamilton County forces and funds and placed in County right-of-way to be used for be stockpiled by Contraction after shootly eradication in Hamilton County right-of-way for removal by Hamilton County forces and funds.

CENERAL NOTE:

Y -AM)(AA 9qyT) construction This work shall be paid under the bid item "Compaction of Earthwork Type AA, which will be required, is to be determined by the Engineer at the time of may have been lost since grading operations. The exact locations of this Compaction on the roadbed, is for the purpose of restoring the original Compaction Type AA which On surfacing projects, the 6" of Compaction Type AA, shown for the center portion

lenatem the structure slab shall be removed and backfilled with the hubguard is level with or above the finished shoulder grade, the earth cover over Over all attructures, unless otherwise directed by the Engineer, where the top of

material used to backfill over the structure shall be - ayı as directed by the Engineer The removal of this material will be subsidiary.

The earth shoulders shall be compacted full depth (Type -MR) except, when paid for at the prices shown in the contract.

ordered by the Engineer, the top 3" shall be left uncompacted for seeding.

All side roads and house entrances shall be surfaced with to the R/W line as indicated on the defail. All side roads and house entrances with

turnout (ON PROJECTS WHERE STABILIZED SHOULDERS ARE NOT SPECIFIED) shall be surfaced R/W line or to the end of construction as directed by the Engineer. Each mailbox existing asphalt surface shall be surfaced with edf of teest to the

side roads (_____C.Y.J.S.Q. Y.D.) beyond the limits of the asphile to the Surfacing material (SA- //) shall be used for surfacing house entrances and to the limits shown on the detail.

The thickness of side road and entrance surfacing may be increased to the limits of construction ad determined by the Engineer.

On projects which specify both asphalt base and surface course materials, same thickness as the stabilized shoulder within the approximate limits of the shoulder.

at the contractors option, with the approval of the Engineer. side roads house entrances and mailbox turnouts may be surfaced with both anterial

of 1 56 lbs, per cu. ft. Weight/cu. ft. includes moisture allowed by specification. by per cu. ft. Quantities for stabilized base course, AB-3, are calculated on the basis Och in the size of the state of the state of the size of the size

Thicknesses indicated for all construction which is paid for on a weight or volume The base course shall be constructed to the plan thickness as shown.

Shoulder rumble strips will not be constructed as part of this project. Asphalt Material quantities are calculated on the basis of 6.328 lbs. per gal.

TYPICAL PROFILE AT GRADE CONTROL POINTS

material shall be subsidiary to other items in the contract. The work of cutting the subgrade and disposing of excess excavated Wolad aldef and in navig se ad lishs "L" and "C" to anoiznamib gribnogaroo R.R. crossings, also at changes in thickness of base or surface courses. at all grade control points, i.e., existing pavements, grade bridges and The Contractor shall out the subgrade in accordance with this profile

1	750,	10#	500.1	+B	120,	9	1001	-V	20, 1	5
1	352	6	.SZL	.L.	152.	S	J.S.L	"Е	52	a L
j	1 1	D	T	D	1 1	D	1	D		D
1	1 1	U U	SNOT	SNEI		าายง	1 1	u	1 1	-

Plotted by File : rd051 .dgr nos 26 JUN-2024 10:47

) 3 3
dolum & hear aviiting	NO	FILL SECTI
doluM & beet	Fertilize, S	
Fertilize, Seed & Mulch Exposed rock, shale, or other material	Fertilize, Seed & Mulch If rock is exposed at the bottom of a ditch, it shall be left in place and seeding shall not be required.	ر UTURE JRFACE

measurement (i.e. pavement, gravel, riprap, etc.) shall not be included in this entire disturbed area of the project that requires seeding and erosion control measures to be placed. Any impervious areas CLT = Construction Limit Tract. This area is defined by the

aldissoq ton si gnillinb using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if Slope = Defined by the srea of the project that requires Class 1 servation control material to be placed. This area shall be seeded

eldissoq ton si pnillinb using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if Channel = Defined by the area of the project that requires Class Σ erosion control material to be placed. This area shall be seeded

GENERAL NOTES

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications.

CUT SECTION

Temporary seeding that be done during any time of the year that the soil can be cultivated. After the temporary seeding has been completed on the entire project, permanent seeding shall be done during the normal seeding season.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching materials is generally as follows:

 $1\,\%$ - $2\,\%$. Tons per Acre = $1\,\%$ loose depth spread uniformly over acre.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate

broj ЭIA ЧĹ

	iect.	0
ent no beau xiM beed finance of the	to e	ə
Erosion Mix consists of the Shoulder	lio2 (ðι

	+00	a i.
ht no beau xiM bee2 triansmise Ad	110	ea
Erosion Mix consists of the Should	lioS	; a

the Class 1 and/or Class 2 erosion control material.

The Soil Erosion Mix is to be placed under

AMAN

will be determined in the field.

**** List size of material.

must be included.

2 tons / acre

42

57

20

120

LID

HD/JS

P.L.S. RATE/ ACRE

900 lbs / acre

8'27

01

6'3 54'2

PLS RATE

n Mix consists of the Shoulder manent Seed Mix used on the

(notre8) (sserpteadW nreteeW) bee

(oneX IE) (small state of the s

SOIL EROSION MIX

nolprivo.) (ssero erreno eula) bees

Regreen and Quick Guard are the approved sterile wheatgrass products.

Seeding Quantities sheet LAS50 for further details.

9'0

9'0

90

9'0

14

LTD

HO/JS

ACRES

(sserpteanW almarz) bee

art) (eserið olettuð) base

Total (lb) 38.2

87

9'61

(ql) VTC

If the total disturbed area of the project, not just the seeding area, is 1 acre or more, then these bid items

NOTE: Projects less than 1 acre shall be bid as "Seeding" by the lump sum. See Permanent Seeding Summary of

Water (Erosion Control) (Set Price)

Mater Pollution Control Manager #

Geotextile (Erosion Control) shall be removed prior to placement of permanent slope protection.

Aulching

eone-1 flia

Mulch Tacking Slurry

WPPP Inspection #

(IontroD noison3) elitxetoe

1 npiss0 999W

(****) Apock (****)

("02) pod eldeberperpeie

("Sf) god eldebergeboil

("9) bod eldebergeboie

emporary Slope Drain

emporary Stream Crossing

emporary Sediment Basin

(emporary Berm (Set Price)

Vothetic Sediment Barrier

xiM noizona lios

Sediment Removal (Set Price)

(Y sqyT ,S asion Control (Class 2, Type Y)

Erosion Control (Class 1, Type C)

(emporary Seed (Grain Oats)

emporary Seed (Canada Wildrye)

Temporary Fertilizer (16 - 20 - 0)

Temporary Seed (Sterlle Wheatgrass)

BID ILEW

SUMMARY OF SEEDING / EROSION CONTROL QUANTITIES

emporary Inlet Sediment Barrier

emporary Ditch Check (Rock)

Quantities for all erosion control items are estimated to give full flexibility for compliance with the NPDES permit. Final quantities

The estimated quantity includes mulching associated with both temporary and permanent seeding operations. The total mulch and mulch tacking source shall be determined in the field. The bid item for mulching and mulch tacking source strong. The total mulch and for according to the Standard Specifications.

The amount of mulch and mulch tacking slurry in the bid quantities is estimated. (Acres of Seeding X 1.5 X 2 Tons/Acre)

ЫОСІ		

A228A_

TING TON

/1-10-71

03 08-03-50

ΡΟΓΓυΤΙΟΝ CONTROL	
TEMPORARY EROSION AND	

ΡΟΓΕυΤΙΟΝ CONTROL
DNA NOIZOAA YAAAOAMAT

NOITATROGRNANT 30 TNEMTRAGED SARNA SNOISIAR

vised Standaro

DISDRAIC DASIVAN

aloN babbA

UNA NOISOAA YAAAOAMAT

POLLUTION CONTROL	
ΕΜΡΟΚΑΚΥ ΕΚΟΣΙΟΝ ΑΝD	I

CONTROL	NOIL011

21 ON 45

W BD

AGAL

NO1

87

EACH

EACH

ST

17

QY OS

T

ЪП

TE

11

EACH

-TE

ay up

EACH

CU VD

ΓĿ -17

07.00

OV OS

OY DS

87

87

87

87

81

TINU

45

SHEET NO

HEFT

¥101

5024

AA3

81

3'603

ZE8

1075

38.2

22

27

21

510

ΥΤΙΤΝΑUΩ

38 C-2509-01

BROJECT NO.

SASNAS

STATE

HS ONN

WED WI

РОГГИТІОИ СОИТВОГ

СОИТВОГ	POLLUTION

ΡΟΓΓυΤΙΟΝ CONTROL	

ΡΟΓΓυΤΙΟΝ CONTROL

IGNICK 2113 DELVILOK 2113 OUNILITIES IGNED M.R.D DETAILOK 2113 OUANTITIES

ΡΟΓΓυΤΙΟΝ CONTROL

	WICK 2442 DELVIFICN 2443 OUNNICK 2442 WICK 2443 DELVIFIC WICK 2443 OUNNICK 2443 WICK 2443							
	shlaute H House (Alvoldda -	1530 1530						
	825A-EC							
	SEEDING-SODDING							
	EBOSION CONTROL							
	NOITATROGRADA CANADA CA							
	U'GGA WI 2NOISIVER TAA							
EROSION CONTROL CLASS 1, TYPE C Image: State of the state								
EROSION CONTROL. CLASS 1, TYPE C Number of the state of								
104. 10000000000000000000000000000000000								
10/11 EUG00 (0111471 1/42 C*								
TOTAL 0500000000000000000000000000000000000								
<u>иситеритерите</u> <u>иситеритерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>исите</u> <u>иситерите</u> <u>иситерите</u> <u>иситерите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>исите</u> <u>иси</u>								
All Bit Distribution State All State								
				SPY DS FOTE		= () =	IGYT , I SZAJ	TOTAL EROSION CONTROL (C
EXPSUINC CONTROL CLASS 1, TYPEC								
Image: Second								
EROSION CONTROL 74/16 R00.00 44/9 64/0 70.0 70.0 R00.01 70.0 70.0 70.0 70.0								
Amore Amore <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
Num Num <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
State State <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
ERROSION CONTROL Skneke Struct Norm Skneke Struct Skneke Struct Skneke Struct Skneke Struct Struct <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
Image: Sevent 10 Sevend 00 Image: Sevend 10								
STATION TO STATION STATE MANASE State Tu d. Tu d. MANASE State Tu d. MANASE								
25-94 (14 10 26+00 00 17 300, 17 300, 283 1200 81 300, 283 1200 25-94 (14 10 26+00 00 17 300, 17 300, 17 300, 17 300, 17 300, 184 310, 1041, 1								
35+34 14 10 56+000 00 16t (1 306) 325 325 1001 35+34 14 10 56+000 00 16t (1 306) 325 1001 35+34 14 10 56+000 00 16t (1 306) 325 1001 316 326 1001 316 326 1001 316 326 1001 316 326 1001 316 326 1001 316 326 1001 316 326 1200 316 326 1201 316 326 1201 316 326 1201 316 326 1201 317 305 1200 318 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200 319 1200 1200								
ALANDE PROJECT VO. YEAR REI VO ALANDERA 20170A CONTROL- CLASS 1, TYPE C TATADOUTO CLASS 1, TYPE C TATADOUTO CONTROL CONTROL CONTROL CONTROL CONTROL CLASS 1, TYPE C TATADOUTO CONTROL CONTROL CLASS 1, TYPE C TATADOUTO CONTROL CONTROL CONTROL CONTROL CONTROL CLASS 1, TYPE C TATADOUTO CONTROL CONTROL CLASS 1, TYPE C TATADOUTO CLASS 1, TYPE C TATADOUTO CONTROL CLASS 1, TYPE C TATADOUTO CONTROL CONTROL CLASS 1, TYPE C TATADOUTO CLASS 1,								
In the transmission of transmissio					22. 32.3	300.	الاز. الاز الاز الاز الاز الاز الاز الاز	00'00+95 01 ±1'56+25
TAPE State PROJECT NO. VEAR ALEET NO.					52. 52. 52. 52. 53. 53. 54. 54. 54. 54. 54. 54. 54. 54. 54. 54	300. 300. 310. 310.	11 ببج ببج ببج ببج ببج ببج ببج ببج ببج ب	00'00+95 01 \$1'\$6+25 00'00+95 01 \$1'\$6+25 98'51+4'50 112'02+\$ 98'51+4'50 112'02+\$ 98'51+4'50 112'02+\$
STATE PROJECT NO. YEAR SHEET NO. KANSAS 38 C-5206-010 2034 45 80					21,1117	300, 310, 530, 16, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17		DIOLOJU EROJOIO 00.001412 01 10 56+00.00 00.00142 01 10 56+00.00 00.00142 01 41,401 00 00.00142 01 41,404 00.00142 01 41
RMRAPS 38 C-25206-0.1 30 C 4 C 90 RAMLAPS RAMLAPS RAMLAPS 4 C 10 L 10 L				B83 B83 B83 B83 B83 B83 B83 B83	26. 36.3 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	300, 300, 310, 530, 530, 530, 530, 50, 50, 50, 50, 50, 50, 50, 50, 50, 5		EROSION C 52+94,14 T0 56+00,00 52+94,14 T0 56+00,00 52+00,000 52
STATE 38.5-5206-01 2024 45 80-15 STATE PROJECT NO. YEAR 45 81-15				883 883 1500 1500 804 80 883 5 80 883 883 883 883 883 883 883 883 883	26. 28.3 28.3 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	300. 300. 310. 530. 530. 530. 530. 530. 530. 530. 53		EEGOSION 000000000000000000000000000000000000
STATE PROJECT NO. YEAR 45 80 STALE 38 C-5206-01 2024 45 80				B83 B83 B83 B83 B83 B83 B83 B83 B83 B83	26. 36.3 28.5 28.5 28.5 28.5 28.5 28.5 28.5 26. 28.5 28.5 28.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	300, 300, 310, 310, 530, 530, 0 C- CCV		EROSION 0 52+94,14 T0 56+00,00 52+94,14 T0 56+00,00 52+94,14 T0 56+00,00 52+94,14 T0 56+00,00 52+94,14 T0 56+00,00
TATE PROJECT NO. YEAR SHEET NO. ON BILET NO.				883 883 1500 883 883 883 883 883 883 883 883 883 8	26. 36. 36. 28. 28. 28. 28. 28. 28. 28. 28. 28. 28	аое, 300, 310, 530, 530, 530, 50 С-СГУ :		EESOSION 00 EStatition 10 26+00.00 25+94,14 10 56+00.00 44+00.00 10 47+15 86 C314101 10 2147+15 86 ESOSION 0 C314100 10 2141104 D0 2104100 10 47+15 86 C314100 10 2141104 C3140100 10 47+15 86 C3140100 10 47+15 86 C31401000 10 47+15 86 C314000000000000000000000000000000000000
	NSAS 38 C-5206-01 2024 45 80	Χ		B83 B83 B83 B83 B83 B83 B83 B83 B83 B83	56. 36.3 36.3 28.5 28.5 28.5 38.5 28.5 28.5 35.3 26.5 35.3 26.5 35.3 35.3 35.3 35.3 35.3 35.3 35.3 3	300, 300, 310, 530, 530, 0 Г- CГV		EROSION 0 52+94,14 T0 56+00,00 52+94,14 T0 56+00,00 52+00,000 52

Plotted by : bwilkinson 26-JUN-2024 10:48 File : la852a-ec.dgn

rier. not exceed 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GENERAL NOT 25 ruptions shall be placed along contour line proprious shall be placed along contour line promilength of the slope interruptions shall ind the barrier ends need to be staggered. prosed anaged by Contractor's negligence, in the tarket of maintenance, shall be repaired prosed to cost to KD prosed to cost to COST prosed to cost to COST prosed to cost to COST prosed to cost to COST prosed to cost to	1) Slope inter a short sect 250 feet, an 250 feet, an 3) Interruptio maintenanc immediately immediately immediately		eter eter am Apron Marching American American TYPICAL ELEVATION TYPICAL ELEVATION TYPICAL ELEVATION TYPICAL ELEVATION
				Apron Apron (1yp.) - Stakes (typ.)
				reter _og Section
	by the Field Engineer	rould be approved	la anoitaiveO	
				BECLION B-B
	d2 60	30	Vr:He	Gradi
18"-20" Straw/Compost Excelsion / Wood Chips / Coconut Fiber	08 09	07	Vr:H⊅≥	۲۰۰۲ (41dəp1.71.7debt)
9" Straw/Compost Excelsior / Wood Chips / Coconut Fiber	c or 12" Filter Sock or 18" Filter Sock (ft) (ft)	or 8" Filter Sock (ft)		OR post embedment Machine slice
BIODEGRADABLE LOG MATERIAL	RODUCT	g 1 9" Sedimental no go	າ ລະດອດກະຄິວກ	
				At material Plastic zip ties, or other material
lether minimum overlap of 18". readable log and filter sock required. sks should be keyed into the ground at a shd soll. the log at a minimum ight of the log / sock	piodegradable logs or filter sock tightly tog stakes shall be 2" x 2" (nom.). o plan sheets to estimate length of biodeg of or sock (except compost filter socks) si m of 25% of its height. Compost filter sock s d ground with no gaps between the sock s of stakes should be 2 times the height of nimum ground embedment equal to the he	1. Place 1 2. Wood 3 3. Refer t 4. Each Id minim prepare 5. Length min		SILT FENCE BARRIER SILT FENCE BARRIER
	BLE LOG OR FILTER SOCK	ADA9330018		
י" of the fence by the Engineer on aperformance basis. fence required.	vood - 1 \Re_6 x 1 \Re_6 x 2 \Re_6 y, hern Pine (No. 2) - 2 \Re x 2 \Re ; U, T, L, or C Section - 95 lbs. per 1'-0"; or eftc - same strength as wood stakes. fence fabric with 3 zip ties within the top 8 fence fabric with 3 zip ties within the top 8 fence fabric with 3 zip ties within the top 8 fence fabric with 3 zip ties within the top 8 fence fabric with 3 zip ties within the top 8 fence fabric with 3 zip ties within the top 8 fence fabric with 3 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ties with 5 zip ties within the top 8 fence fabric with 5 zip ties with 5 zip ti	a. Hardv b. South c. Steel d. Synth c. Stach 2. Attach Atterna 3. Use of 1 3. Use of 1		
STATE PROJECT NO. YEAR SHEET NO. TOTAL KANSAS 38 C-5206-01 2024 48 80 KANSAS 38 C-5206-01 2024 48 80	SHON NOITALATRNI	J. Stakes SILT FENCE:		4' (max.) (on center)

Standards.

mulch, shall meet the North American Weed Free Forage mulching and erosion control practices, excluding wood based

K001 Graphics Certified 04-23-2024

LA852D

JTAD ON

 MAR ALL
 DETAIL CK
 QUANTITIES

 SIGNED
 S H 2
 DETAIL CK
 QUANTITIES

 SIGNED
 S H 3
 DETAIL CK
 QUANTITIES

BIODEGRADABLE LOG / SILT FENCE

SLOPE INTERRUPTIONS

POLLUTION CONTROL POLLUTION CONTROL POLLUTION CONTROL

SNOISIAB

81 ON 45

PRIME TH 110

BA Vbb.D

TRACED

BIODEGRADABLE LOG SLOPE INTERRUPTIONS

OR Filter Sock

			TEMPORARY POLLUTIC DITCH	TION CONTROL TION CONTROL ARY EROSION AND
		0N 10 10 10	Image: 2007 Image: 2007	A A R briebnelle besleven A A R briebnelle besleven M R briebnelle besleven M R briebnelle besleven M R briebnelle besleven VH M M R briebnelle besleven VH Besleven VH Besleven
				C.
E				
rrangement of Ditch Checks				
1 - 1- 1- 1- 1- 1-x 1	ACCEPT Rock Ditch Checks. NOTE: Use this spacing for all	NOTE: Use this specing for all except Rock Ditch Checks.	Γ	
[306 ↔ [306 ↔	2'0 52 4'0 30 3'0 4'0 90	20 50 40 52 30 32 50 32		
	100000000000000000000000000000000000	DITCH @ SPACING SLOPE INTERVAL (%) (*EET) (%) 710 110 10 10 10 10 10 10 10 10 10 10 10		
	CHECK SPACING 20" BIOLOG	CHECK 26VCING 18. FILTER SOCK		
-/\$↓- - - - -×-				
		я	KV//SV 38 C-2509-01	9-01 5054 46
		n	STATE PROJECT NO.	NO. YEAR SHEET NO. T

KDOT Graphics Certified 04-23-2024

IONCK SHO DELVICCK IONED SHO DELVICED

LA852E

67 ON US

NO SCALE TYPICAL DITCH CHECK LAYOUT PLAN

GENERAL NOTES

The choice of ditch check methods is at the option of t Contractor.

Use only rock checks in situations where the ditch slope is 6 percent or greater.

Ditch checks damaged by Contractor's negligence, including point of the improper maintenance or lack of maintenance, shall be repaired by Contractor at no extra cost to KDOT.

Plotted by : bwilk File : la852e.dgn vilkinson 26-JUN-2024 10:49

08	09	5024	38 C-2206-01	KANSAS
ATOT TЭЭН2	SHEET NO.	ЯАЭҮ	РВОЈЕСТ ИО,	JTAT2

ROCK DITCH CHECK NOTES

7. Rock shall be clean aggregate, D50-6" and aggregate filler.

2. Place rock in such manner that water will flow over, not around

alteu cueck.

Downstream Apron (IsnoitqO)

Biodegradable Log Section 18" (min.) diameter

3. Do not use rock ditch checks in clear zone.

4. Excavation: The ditch area shall be reshaped to fill any eroded areas. Prior to placement of the rock, the ditch Shall be excavated to the dimensions of the Rock Ditch Check and to a minimum depth of 6" (150mm). After placement of the rock, backfill and compact any over-excavated soli to ditch grade. This work shall be subsidiary to the bid item Temporary Ditch Check (Rock).

Aggregate excavated on site may be used as an alternate to the 6" rock, if approved by the Engineer.

their use. The Engineer may approve the use of larger aggregates for the downstream portion of the check when conditions warrant their use

When the use of larger rock is approved, D50-6" rock will be placed between the larger aggregate and the aggregate filler.

Agregate filler will be placed on the upstream face of the ditch check. Aggregate filler will comply with Filter Course Type I, Division 1114,

necessary to ensure water does not flow around end of ditch check. 1. Use as many biodegradable log sections as

2. Overlap sections a minimum of 18%

.pol edt Stakes shall be wood or steel according to Section 2114 of the Standard Specifications. Length of stakes shall be a minimum of 2 x the diameter of

4. Use Erosion Control (Class 1) (Type C) as the downstream apron when required.

the contract unit price. A downstream apron is required when directed by the Engineer. Apron material will be paid at the contract unit when

between the sock and soil. Each log or sock (except compost filter socks) should be keyed into the ground at a minimum of 25% of its height. Compost filter socks should be placed on smooth prepared ground with no gaps

09	'9N '45	-2024	04-53	beititied a	soldgerð To	крс
BAA.	LISACE CK	JOAN CK	MT	I' DELVICOR	BN CK W	1530
RAA.	LHVCED	GRWMLILLEZ	DK	0311V130] 1	CINED W	1830
#15.J.m	nyata.	Vels0	02-61-11		JAVOR99A A	WH
					8226	AJ.
S	CHECK	HOTIG PO	171	AADARF	BIODE	
	5	CHECK	DITC	BOCK		
	-	A CONTRO	1011	POLLU		
	(IN)	FROSTON 4	і ХЯ/	ЕМЬОВ		
	dit	NOITATROGENART TO	тизмтя	KANSAS DEPA	_	
0.dd∀	BA	SNOI	BEVISI		3TA0	ON
SHS	AAA	biebneti	2 basiveA		SI-12-01	LO
SHS	AAA	bishnet	2 bəsivəЯ		91-01-80	05
ML	WIED.	biebneit	Revised S		02-61-11	60

JANOIT90

SECTION B - B

SELON

T) Temporary Sediment Basins shall be constructed at locations as directed by the Engineer or as approved in the SWPPP Schedule. All work and materials necessary, including but not limited to, the fill material, compaction, drainage pipes, aggregates and all other incidentals necessary to construct the basin, shall be paid as "Temporary Sediment Basin".

2) Lengths and top dimensions shall be determined in the field by the Engineer. 3) Skimmer dewatering device required and must be used reguardless the size of the drainage area.

19	ON 45	ertified 04-23-2024) soirigenð T	KD0			
5H3 88	BACE CK. BACED	DELVIC CK 2 H 2 GNVCK 1 DELVICED 8 8 GNVL111E2 1 06-54-13 VhhD:	ACK 2H2 MED BU VEDBROAVE B2SH	01530 91630 VMHJ			
	IN 1D	KANASAS DEPRITMENT OF TRANSPORTATION POLLUTION CONTROL ONDENT STORAGE BAS	ISEI I				
Q.dd¥	1 84	BEVISIONS	DATE	ON			
SHS	MRM	Revised Standard	£1-21-20	LO			
SHS	мви	solvati prinatewati rammikit babbA.	£1-60-60	05			
					REQUIRED STORAGE CAPACITY	SIDE	NOITATS OT NOITATS
					SNOITAJOJ NISAB JO	лотг т	SEDIMEN

Exposed rock sh	If rock is exposed at pottom of a direct is exposed if not be required pain of the required p
Fertilize, Seed & Mulch	Fertilize, Seed & Mulch

9|6'

	(di) letoT	12
68'0	White Prairie Clover	6,0
0'25	Purple Prairie Clover	4.0
ZS 0	tnelqbesJ	1/0
1'3	opibnī bliW sulā	0.1
0'59	Common Evening Primrose	0.2
9°L	Illinois Bundleflower	S'L
0"25	Pitcher Sage	1 ,0
68.0	temon Mint	5.0
0.26	Western Yarrow	2.0
0 36	Upright Prairie Coneflower	0.2
0.26	Plains Coreopsis	0.2
92.0	newolinu2 nellimixeM	2°0
1'3	Blanket Flower	0 1
9'0	Black Sampson Coneflower	G.O
0 36	nesu2 bey3 Voel8	0"3
68"0	Butterfly Milkweed	0"3
OTY ((b)	AMME	PLS RATE

1 700 0010

(third) seed box and place the seed (using the seed drill) on the soil surface. stered %re" maximum. Place the Tall Drop Seed in a separate wildflower seed in a separate seed box and drill (cover) Seed separately from the grass seed and the wildflower nix. Place the grass seed (except Tail Drop Seed) in the large seed box and drill (cover) seed $\delta_{\mu}^{\mu} - \delta_{\mu}^{\mu}$. Place the Package and deliver the wildflower seed separately from the grass seed mix. Package and deliver the Tall Drop

OPTION: Broadcast Tall Drop Seed on the soil surface.

	WARRENT PRODUCT TO TRACK
	Wildflower Mixes
	Switchgrass
	Side Oats Grama
Western Wheatgrass	Sand Lovegrass
Tall Dropseed	Sand Dropseed
Sterile Wheatgrass	mətsəula bns2
Ryegrasses	mətsəula əltti
Prairie Junegrass	ssergneibnI
senose-	ssere oleitua
Sanada Wildrye	smane Grama
Brome Grasses	mətsəula pia
Bluegrases	Bermuda Grass
SPECIES	SPECIES
06 rədmətqəS undt 21 sauguA	
February 15 thru April 20	ר אחט און די און אין אין אין אין אין אין אין אין אין אי
COOL SEASON GRASSES	SAENOLATIOFLOWERS & WILDFLOWERS
GRASS & WILDFLOWE	ER SEEDING SEASONS

When the area to be seeded is 1 acre or more, it Cool Season grasses are mixed with Warm Season grasses, seed the area during the Warm Season

When the area to be seeded is less than 1 acre, seed the area any time of the year.

SUOZAJ2 DUIDO2

	pog anosa-
Buffalo Grass Sod	Bluegrass Sod
SPECIES	SPECIES
May 15 thru September 1	March 1 thru April 15 September 1 thru November 15
SESSARD NOSAES MIRAW	COOL SEASON GRASSES

uoseas Buppos Buud
me, maintain the sod until 20 days after the beginning of the
etween November 15 and March 1. It sod is placed during this
I the soil is workable, the Engineer may allow placement of sod

suoseas Sulppos pue

NMARY OF SEEDI	INS	

TINU	YTITNAUQ	BID ITEM	ACRES		Р.С.S. ТЕ/АСRE	LAA	
		No. 00.2 (2.1) 1111-12	OTHER	801HS		ОТНЕ	SHLDR
sgg	90	(0-02-91) Jazinita4		ZL			05
SOT	7.1			Z'L			L
SOT	t [*] 67.			2.1			542
SUL	9/			1.2			9'3
SQT	ZL	2660 (216LIIG MU63IGL928)		21			OL
sqj	ζ'.	Seed (Western Whestgrass) (Barton)		Z"L			9
						-	
						_	
							_
		* Duidolum					

SHLDR = Seeded with the Shoulder Mix. Typically 15 feet for 2-lane roads and 30 feet for 4-lane roads. Includes outside roadsides, turfed portions of shoulders, and turfed portion of the median.

OTHER = Seeded with the "Other" Mix, Designated as all other turf areas, except the Shoulder. Usually includes a Native

NOTE: Projects less than 1 acre shall be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, ferthised and mulched at the listed rate per acre. The acres are estimated. WIIDTIOWER MIX.

Refet to the Standard Specifications, Division 900, Section 904 'Seeding', and Section 907 'Sodding', for the seeding

the Standard Specifications. * See L852A for mulching quantity. The quantity of mulch is estimated (Acres of Seeding X 1.5 X 2 Tons/Acre).
** The polar into the required shall be determined in the field. The bid item for mulching ushall be paid for according to the field.

5.8	031	ON	שר		יכו
	231		1.0.0	יובט	1 .

08	23	2024	38 C-2506-01	KANSAS
TOTAL ST33H2	SHEET NO.	ЯАЭҮ	PROJECT NO.	JTAT

EG ON US

J.dd∀

яна аям

MBD WC

SUMMARY OF SEEDING QUANTITIES

PERMANENT SEEDING

NOITATAO92NAAT 40 TNAMTAA90 2A2NA

SNOISIVAS

CIEDUEIS DESIAE)

Updated Seeding / Sodding Periods Charts

_		_	_
SE	1 ON	JAH	BERNE

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other destruble vegetation shall be fertilized (limed when required), seeded and mulched. Soll preparation shall conform to the Standard Specifications except as noted below.

All borrow areas shown on the plans are to be fertilized, seeded, and mulched. However, operation in borrow areas where crops are growing may be omitted when requested by the owner.

If there has been encound that requires repair prior to seeding, then it may be necessary to regrade the area, If there has been encound that requires repair prior to seeding, then it may be necessary to regrade the area,

resulting in bare ground.

listed in Summary of Seeding Quantities will be acceptable. FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P205, K20

the plans. The rate of application per acre, thickness in place, for the mulching material is generally as follows: MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on

1% - 2% . Tons per Acte = 1% , loose depth spread uniformly over acte.

based mulch, shall meet the North American Weed Free Forage Standards. Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood

028A.

02-60-80 1

05 11-52-50

Other vegetative mulches are acceptable only with the Engineer's concurrence,

tor adequate protection of newly seeded areas. The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient

seeding shall be combined and seeded at the same time; When seeding is less than 1 acre, temporary and permanent

than one acre. There is no seasonal restriction when seeding projects less

	(dl) letoT	£0L
	White Prairie Clover	2.0
	Showy Partridge Pea	3 0
	ssebedsed bearing	0'3
	Purple Prairie Clover	8.0
	Ноату Verbena	L'0
	Common Evening Primrose	2.0
	Illinois Bundleflower	0"L
	tomsergamot	0"5
	Pitcher Sage	0"5
	tniM nom9J	0'3
	Dames Rocket	0"3
	Upright Prairie Coneflower	0 3
	Purple Coneflower	0"3
	Plains Coreopsis	Ζ0
	Pinnate Prairie Coneflower	2.0
	1972 Teta bright new	L O
	Maximilian Sunflower	2.0
	Lance-Leaf Coreopsis	0.5
	False Sunflower	0.5
	Blanket Flower	5.0
	Black Eyed Susan	E.0
	Common Milkweed	0.3
	Butterfly Milkweed	0.3
(dI) YTO	AMAME	LS RATE

Plotted by File : la850 nos 26 JUN-2024 10:50

08	2 ¢	505¢	36 C-2506-01	SAZNAX
TOTAL ST33H2	SHEET NO.	ЯАЭҮ	вколест ио.	3TAT 2

TYPICAL WORK ZONE COMPONENTS

are not needed along the tangent barrier section. * When concrete barrier system is used, portable channelizing devices

55 'ON '45

BWB

6M8 EKC

CALCK DELVITICK ONVILLING CALED BYTH DELVITED FINIT ONVILLING

GENERAL NOTES

TRAFFIC CONTROL

NOITATROGENART TO TUBMTRAGED EARNA

O HAR DRIFTER THE PARTY

SNOISIAR

lienz of beginnits egeau gd1-8

Taper Formulas:

- L = WS for speeds of 45 MPH or more
- L = WS'60 for speeds of 40 MPH or less
- beed special value of posted speed Teet: L = Minimum length of taper in feet
- teet feet width in offset feet Prior to work starting in MPH

Shoulder Taper=1/3 L 2/l=19q6T pniffid2

Channelizer Placement:

to work starting. exceed a distance in feet equal to 1/2 the posted speed limit in mph prior for the spacing between devices in transition area (taper) should not

posted speed limit in mph prior to work starting. activity area should not exceed a distance in feet equal to two times the (2) The spacing between devices in the advanced warning area and the

normally at right angles to the traffic flow. (3) Channelizing devices shall be placed for optimum visibility,

the new path. The arrow sign should not be visible to opposing traffic. (4) Place directional indicator barricades in series to direct traffic onto

LE/00

SI-81-80 10

81-61-6

ownward in the direction traffic is expected to pass. (5) Alternating diagonal orange and white striping must slope Buffer Space

0797

09Z

200

320

001

Э

1200

0SZ

005

320

001

8

1000

0SZ

200

320

00L

¥

:(təət ni) pniceqs ngis pnimew sonevbe muminiM

820	08Z	5⊅9	0 <i>L</i> S	<u>56</u> ‡	452	09E	302	520	200	122	511	reneth (#)
SZ	0Z	92	09	55	05	SÞ	0\$	32	30	52	50	Sbeed (MPH) *

* Posted speed prior to work starting

maximize visibility.

YAW3397/YAW22399X3

RURAL (60 MPH OR HIGHER)

RURAL (55 MPH OR LOWER)

URBAN (45 MPH OR HIGHER)

(REAN (40 MPH OR LOWER)

* (HAW) AJJAS

as approved by the engineer in order to

evode eldet ent ni seulev muminim ent broyed

less than 100', unless directed by the engineer.

on ad llada angia naawtad priceda muminim adT * Posted speed prior to work starting

The spacing between any signs may be increased

space upstream of the vehicle constitutes the buffer space. buffer space. When a protection vehicle is placed in advance of the work space, only the Neither work activity nor storage of equipment, vehicles, or material should occur in the

work zone components above. full lane width should be available throughout the length of the buffer space. See typical from the work space, the barrier system shall be considered part of the activity area. A If temporary concrete safety barrier system is used to separate approaching traffic

> work starting. designed and installed using the posted/legal speed of the roadway prior to 1) Design Speed: Those items delegated to temporary traffic control should be

are not confronted with midblock work sites that will induce them to attempt placed at intersections (rather than midblock locations) so that pedestrians and suburban areas with high vehicular traffic volumes, these signs should be that encourages them to cross to the opposite side of the roadway. In urban provided, pedestrians should be appropriately directed with advance signing reasonable safe route that does not involve crossing the roadway can be movements from both work site activity and vehicular traffic. Unless a 3) Consideration should be made to separate pedestrian and, if needed, bicycle

skirting the work site or making a midblock crossing.

consistent with the features present in the existing pedestrian facility. temporary facilities shall be detectable and include accessibility features 4) When existing pedestrian facilities are disrupted, closed, or relocated, the

W8-7 signs. All signs shall be displayed as long as the condition is present. sign, A W8-15p motorcycle plaque shall be used to supplement the W8-15 or This sign should be placed a "C" distance after the W20-1 (Road Work Ahead) Pavement) or W8-7 (Loose Gravel) sign shall be used on mainline approaches. made of loose material, or when directed by the engineer a W8-15 (Grooved 5) When the driving surface open to traffic is milled or is a temporary surface

Provide the second s directed by the engineer. A lane width less than 11' may require restricted between centerlines of pavement markings) or as shown on the plans, or as 2) Minimum Lane Width: Lane widths shall be a minimum of 11' (measured

`88LL-96Z-58Z the Temporary Traffic Control Unit for more information at 785-296-1179 or 6) Alternative temporary rumble strip options may be available. Please contact Plotted by : File : te700. dgn kinson 26-JUN-2024 10:50

09	95	5024	38 C-2506-01	KANSAS
JATOT STJJH2	SHEET NO.	ЯА∃Ү	рволест ио,	JTAT2

TRAFFIC CONE

6. Use alternating orange/white on interconnected devices.

 Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.
 A. Alternate pathways shall be firm, stable, and slip resistant.
 Treat height differentials > 1/2" in the surfaces of alternate paths with a firm, stable, and slip resistant temporary ramp paths with a firm, stable, and slip resistant temporary ramp paths with a firm, stable, and slip resistant temporary ramp paths with a slope of 12:1 or flatter and having a width equal to having a slope of 12:1 or flatter and having a width equal to

2. Hand trailing edges and detection plates are optional for

1. Support device shall not project beyond the detection plate

PEDESTRIAN CHANNELIZER

Support Device

xeM "S -

Panti Ting Edge

niM "8 JdpisH the alternate path.

continuous walls.

vewnted ent of into the

Detection

niM "SS x6M "85

TUBULAR MARKER Striping as shown for up to 42".

DELINEATOR

VERTICAL PANEL The stripes shall slope downward to the traffic side for channelization.

Not allowed on centerline delineation along treeways or expressways.
 The stripes shall slope downward to the traffic side for channelization.
 May be used upon the approval of the engineer.

.98

DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass. The direction indicator barricade shall be used in series to direct the motorist into the intended lane of travel.

TYPE 2 BARRICADE For rails less than 36" long, 4" wide stripes may be used. All stripes shall slope downward to the traffic side for channelization.

bəxi٦		
	Traffic Cones	oN
	Type 2 Barricade	(Z)
	Direction Indicator Barricade	oN
	Vertical Panels	(2)
	Conical Delineators	səY
	Drums	Yes
Portable		

(4) Daytime operations only.

Plotted by : bwilkinson 26-JUN-2024 10:50 File : te702.dgn

The words "BRIDGE OUT" (or BRIDGE CLOSED) may be substituted for the words "ROAD CLOSED" on

The R11-4 (ROAD CLOSED TO THRU TRAFFIC or ROAD CLOSED LOCAL TRAFFIC ONLY) sign shall be

end-to-end Type 3 barricades shall be placed just beyond the last access point in the work zone, to shall be longitudinally staggered to maintain the appearance of a closed roadway. A second line of As shown in Figure 3, when local traffic must be allowed access into the work zone, Type 3 barricades

sign shall be used with Type 3 barricades (winged position), placed on the shoulders of roadway.

location where the roadway is completely closed, the R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY or ROAD CLOSED LOCAL TRAFFIC ONLY or ROAD CLOSED LOCAL

As shown in Figure 1, at the point where thru traffic must detour and local traffic can proceed to the

The R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) sign shall be used when the

used when the distance to the point of complete closure of the roadway is less than 1 mile.

distance to the point of complete closure of the roadway is 1 mile or greater.

the R11-3a or R11-4 sign where applicable.

completely close the roadway.

ROAD CLOSED GENERAL NOTES

4. Do not use warning lights on audible devices. 3. Do not use warning lights on pedestrian barricades.

2. Barricades shall be used to close the entire width of the pathway.

1. Support device shall not project beyond the detection plate into the pathway.

three rails. more than 50% of the top two rails or 33% of the total area of the Approved signs mounted on Type 3 barricades should not cover

near each outside corner of the end barricades. low intensity warning light shall be mounted to the vertical post "A" eqr are placed end-to-end or staggered, a Type "A"

08 HEEL

AI0

Std. Size

"84 x"84 8" D Expwy/Freeway

30"x 24" Expwy/Freeway Std. Size

8" D

"84 x"84 Expwy/Freeway Std. Size

shall not overlap each other.

the near edge of the pavement. Signs

mounted below another sign may be 4'

3) The height of the secondary sign

breakaway posts shall be mounted a

2) Large signs having an area exceeding

measured from the bottom of sign to the

RURAL

ngi2 to

W01108

9, - 15,

Shou

de of

50 square feet installed on multiple

'S to the muminim a tabatnom

1) Ground-mounted signs shall be

.bnuone of 7' above the ground.

.jnemeveq

Koadway

Traveled Way

Fdge of

near edge of the

of noise of the bottom of the sign to

'sisod poow owt to mumixem a seu llade dtbiw ni '9 nadt seal angie IIA stood posts may be used with a minimum of 4' between the centerline of each When the sign width is equal to or greater than 9, three or more wood

2. With the engineer's approval, use acceptable alternative sign stands. 1. Shift the sign location. Do not violate minimum sign spacing.

In the case of hitting rock when driving posts

back of curb.

walkway nor shall it project beyond the

the sign and shall not protrude into the

to mottod ant of yewritian pathway to the bottom of

fo qot ant mort baruseam '2 to muminim

 a bed liend a contraction and a contraction of the second seco .bnuore the ground.

breakaway posts shall be mounted a

5) Large signs having an area exceeding

lleds angle of the pavement. Signs shall

nounted below another sign may be 6'

project more than 4" into pedestrian

or areas designated for pedestrian or

supports should be located on sidewalks

Neither portable nor permanent sign

.fnemeveq edf to edge of the pavement.

to mottod ant mort benuesem 'N to the

muminim e te betnuom ed llede angi? (1

NABAU

From Top of Curb

ngis to

Bottom

aina

Face of * 5, Min.

measured from the bottom of sign to the

4) The height from of the secondary sign

Signs mounted lower than 7' should not

50 square feet installed on multiple

not overlap each other.

.seitilioet

bicycle traffic.

Кемреон

31 10 52 43 38 39 58 35 34 38 39

M O B K

3.1

3"

"8

"4

"8

_G

"S

15

"6

"6

...8t

3-0

1.1

Ξ

7.e

LETTER SPACINGS

23 23 94 46 36

:satoN

92 69 68

-

Dimensions in inches

noa

N

DONBF

I N E Z

677 6.4 3.2 7.3 6.4 5.4

KI-105a

"8.T4

IN MORK ZONES

EINES

..0·.b

KI-1049

.81

В

D

0.4

п

O'LL

0.62

FONT

3"1"

1 1 0'0

KDDT Graphics Certified 12-16-2022

FLW.B. DETAILED R.W.B. QUANICTES

85 'ON 45

BA Vbb.D

8.14

07

40.3

0.8

9.82

0.8

LEN HT

57 31

Spacings are to start of next letter

Colot: Black

Solor: White

Ground

4-0. × 3-0.

FINES DOUBLE

Color: Orange

Inel2 serged 22

Color: White

Color: Black

Ground

30

"0

01

38 C-2506-01

PROJECT NO.

0-7 × 0-7

GIVE EM A BRAKE

2024

YEAR

89

SHEET NO.

SLIJIHS

Type: Reflective

Type: Reflective

Dutch 801 Roman SWC

Type: Non-Reflective

"O"E

"6°0

Type: Reflective

Type: Non-Reflective

3.2

S J N O Z

egend/Border

geckground

Corner Radius

Border Width

the sidna with the second

19dmuN ngi2

sadinta

ino l braga.

Legend/Border

gackground

Athe Width

Corner Radius

Border Width

JADIAH x AJDIW

Sign Number

KANSAS

STATE

BultinoM

DnitnuoM

. 1					
1	08	09	2024	38 C-2506-04	SARNAX
	TOTAL ST33H2	SHEET NO.	ЯАЭҮ	PROJECT NO.	JTAT 2

USE TE731 FOR FLAGGER OR PILOT CAR ON ROADWAYS WITH CONCRETE SHOULDERS GREATER THAN 8 FT.

setoN:

Trucks hauling material to the project should STOP at the Flagger. After stopping, upon approval of the Engineer, trucks may be allowed to move around the Flagger.

Place a Flagger at all highway and major collector intersections and at-grade railroad intersections with infersections and at-grade railroad intersections with crossing the tracks to the left of the gate arm. The need etermined by the Engineer. Place a W20-7 (Flagger determined by the Engineer. Place a W20-7 (Flagger symbol) sign on each side road that is controlled by a Flagger.

Existing signs shall not be covered or removed between Flagger stations.

Temporary rumble strips may be used in lieu of lead in channelizing devices when the roadway is less than or equal to 30' including paved shoulders. When externating circumstances exist, the Area Engineer may elect to eliminate both the lead in channelizers and the rumble

.sqms

Minimum six (6) channelizers spaced at 20'
 Intervals.

 $\ast\ast$ Optional rumble strips may be placed: One set between the W20-1 and W20-4, and one set between the R4-1 and W3-4, on each approach.

 Δ Not required on substantial maintenance projects (1R).

 $\Delta\Delta~$ The KG20-5 (WAIT FOR PILOT CAR) sign shall be mounted on an approved portable support and not attached to the existing stop sign post.

The KG20-5 sign shall be placed immediately in front of the existing stop sign, a minimum of 6" below the bottom of the stop sign. The sign should be removed or covered when there Is no pilot car.

TYPICAL SIGNING FOR HIGHWAY OR MAJOR COLLECTOR APPROACH TO WORK SPACE

IENICK DELVITICK DRIVICK IENIED ILVIH DELVITED ISMIB ONVALILIEZ

LE730

 ∇

 $\nabla \nabla$

30"× 30"

เ-เช

Sh. No.60 35. No.60 36. No.60

08	19	5024	38 C-2206-01	SARNAX
TOTAL SHEETS	SHEET NO.	ЯАЗҮ	РВОЈЕСТ ИО,	JTAT S

on the outside edge of shoofly curves with a radius of 1000' or less at the

,09	'024 nadi ezel
80,	.008, - 420,
,001	1000 - 1000 L
Max. Spacing	Curve Radius
non Spacing	vədƏ bətsappu2

		2	R4-1
	5		M3-4
	5		M20-4
	5		2-11-2
		4	R2-1
		2	KM4-20
		L	KG20-5
		3	KG20-2
0		Z	M14-3
		7	L-ELM
	2		M8-12
	5		W8-3
	5		M3-5
		32	8-LM
		2	9-LM
	5		MJ-4B
	5		NJ-4F
	S		M20-1
	3		W20-7
19VO & 02.01	9.26-16.25 Size - 5q.Ft	92.9-0	oN ngi2
	* subis aud	MOLK 70	

L١

('Sf of '4)

Type 3

bəxi7

Pedestrian

Barricades *

) ENICEZ	SUMMARY OF SUMMARY OF SUMMARY OF SUMMARY OF	А Ч А Я А Я Т
19v0 3.11.p2 32.91 2.82 30.F1. & Over	ገቃላር) & .ነቭ.p2 მ2.9ľ	225 24.14.25 25.01	.on ngis

(EACH)
FRAFFIC CONTROL DEVICES
JO YAAMMUS

additional signs and traffic control devices, this will be Subsidiary to the bid item *Traffic Control* listed are estimates only. Contractor operations may require All traffic control devices shall be placed in accordance with the applicable KDOT Traffic Control Standards. The Contractor shall provide all signs and other traffic control devices for proper traffic control of all construction activities. Quantifies

(FOR INFORMATION ONLY) TRAFFIC CONTROL DEVICES **SUMMARY OF**

Hour		agger (Set Price)
աոշ մաոշ	աոց մաող	affic Control
արջ մարշ	· · · · · · · · · · · · · · · · · · ·	affic Control (Initial Set Up)
աոջ մաող		affic Signal Installation (Temporary)
Еасћ		gid Raised Pavement Marker (Type II)
Each		gid Raised Pavement Marker (Type I)
Each		ork Zone Sign (Special) (16.26 Sq. Ft. & More)
Each		ork Zone Sign (Special) (٦6.25 Sq. Ft. & Less)
JT.niJ		Isvement Marking Removal
Sta./Line		exible Raised Pavement Marker (4" Broken (3.0'))
9niJst2		stible Raised Pavement Marker (4" Broken (8.0'))
Each		(II 9qyT) lodmy2
Each		Symbol (Type I)
Sta./Line		Broken (Line Masking Tape)
Sta./Line		Solid (Line Masking Tape)
Sta./Line		4" Dotted Extension (Type II)
ani I\ st2		4" Dotted Extension (Type I)
ani I\ st2		4" Broken (3.0") (Type II)
edi IV et2		4" Broken (3.0') (Type I)
anid (ib) o		4" Broken (8.0") (Tyne II)
ani I\.st2		4" Broken (8.0") (Tyne I)
ani l\ ista	06	(II anyT) bilo2 +
ani IV et2	00	((initiation) (initiation) (ini
(P.G. 12 1.110.27		The subscript of the su
Fach Per Day		ruis anszaM aldsangd) aldstu
Fach Per Day		נטא טונטואי אמווויוט בופער אמני אמני אמני אומי אמניאא
Fach Per Day		And Zone warming Light (Type A Low Index Index)
Fach Por Day		Internetical (redealing) (Internetical (Inte
Each Per Day		
Each Per Day		ork zone Barricades (Type 3 - 4: to 12)
Fach Per Day		ork zone signs (16.26 Sq.Ft. & 0ver)
Fach Per Day		ork zone signs (9.26 to 16.25 Sq.Ft.)
Fach Per Day		otk cone signs (U to 9.25 sq.Ft.)
1110	Aunabu	

uueu	
	{)
	р

29 .0N .AS

08

SHEELS

IATOT

5054 85

YEAR SHEET NO.

38 C-2206-01

РВОЛЕСТ ИО

RANSAS

STATE