11/19/2021 via Teams Chris Suntken Mary Kelly Tyler Kubik Jason Dighton

STA 1+86.0

T-90N

**EQUATION:** 

=0+00.0 (AHD)

STA 1000+00.0 (BK)

FRA # 307229J

36

END PROJECT

25

Chris Luhring, City of Parkersburg



PLANS OF PROPOSED IMPROVEMENT ON THE

# PRIMARY ROAD SYSTEM

HMA RESURFACING w/ MILLING

In Parkersburg, from Bethel St to the Beaver Creek Bridge

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

STA. 990+50.0

BEGIN MILLING AND RESURFACING

STA 989+10.0 BEGIN PROJECT

OAK PARK TST 4TH AVE (57 14

LOCATION MAP SCALE

R-17W

WRIGHT AVE

WEMPLE

COLFAX

ST

R-16W

COLFAX

₩ 3RD

AVE

31

30

COATES ST

Creek

DESIGN DATA URBAN 2100 V.P.D. 2023 AADT \_ 2043 AADT \_\_\_\_\_\_2600 V.P.D. 20 -- DHV \_\_\_\_\_\_2/0 V.P.H. TRUCKS Total Design ESALs

PROJECT IDENTIFICATION NUMBER 21-12-014-010 PROJECT NUMBER STPN-014-7(41)--2J-12 R.O.W. PROJECT NUMBER



	INDEX OF SHEETS 105-3 10-18-05
A. 1	Title sheet and Location Map
B.1-B.2	Typical Sections
C.1-C.7	Estimate of Quantities, General Notes and Tabulations
D.1-D.3	Plan sheets
J.1	Traffic Control Sheet
S.1-S.2	Sidewalk Detail Sheets
U. 1	Special Detail Sheet

**REVISIONS** 

	MILEAGE SUMMARY		105-1 09-27-94
Div.	Location	Lin. Ft.	Miles
	Sta 989+10.0 to Sta 1000+00.0  Equation: Sta 1000+00.0 (Back) Sta 0+00.0 (Ahead)	1090.0	0.206
	Sta 0+00.0 to Sta 1+86.0  Total Net Length of roadway in Project	186 <b>.</b> 0	0.035
	ű.		

# PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN - Nov. 12, 2021

DESIGN TEAM Kelly \ Suntken

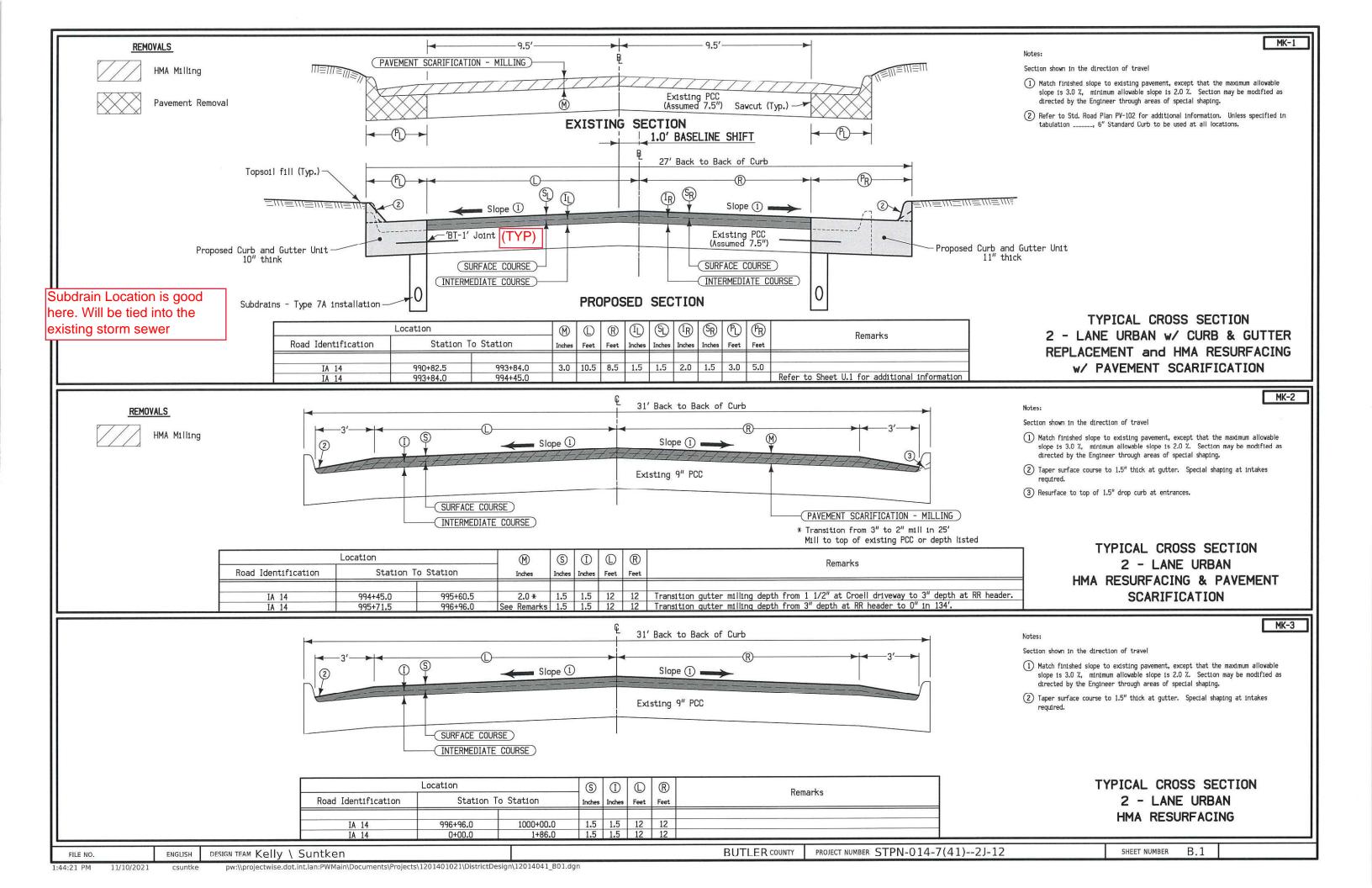
pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1201401021\DistrictDesign\12014041\_A01.dgn

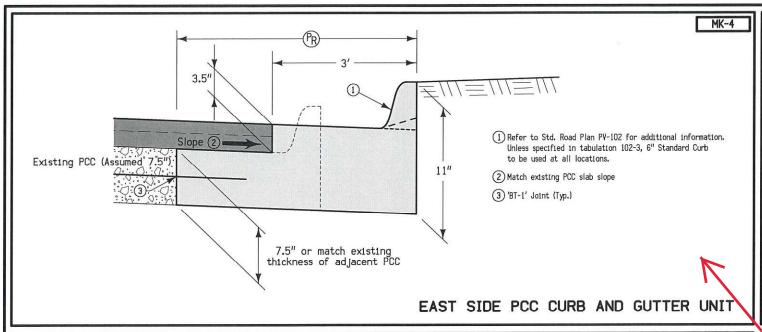
BUTLER COUNTY

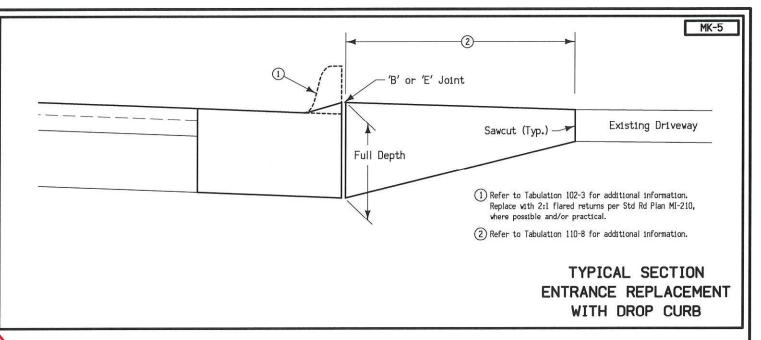
PROJECT NUMBER STPN-014-7(41)--2J-12

SHEET NUMBER

A.1 REVISED







(1) 6" Slope curb in front of paved shoulder

Refer to Tabulation 112-9 for additional information.

TYPICAL SECTION
PAVED SHOULDER
ADJACENT TO CURB

Discussion of this detail. Constructibility would not be easy. Would have to pave curb and gutter and then mill the notch. Concern for maintenance and construction is the location of the joint of HMA/Concrete being in the wheelpath.

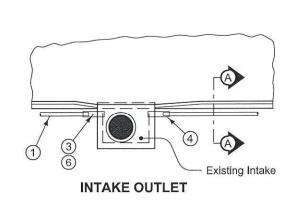
Discussed closure for purpose of placing new curb and gutters. City prefers it be opened by September to not disrupt harvest season.

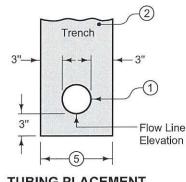
Proposed Bridge project is let Jan 2023 which would affect this route. Need to verify letting date.

Contact with County necessary to see when T47 will be under construction. Spoke with County. Their work will be in 2022.

INSTALLATION TYPICAL

**SECTION A-A** 





TUBING PLACEMENT ALL TYPES

- (1) Perforated Subdrain (Corrugated Polyethylene Tubing).
- 2) Porous Backfill for Subdrain (compacted).
- 3 2 foot section of corrugated metal pipe of diameter 2" larger than subdrain or 2 foot section of double-walled PE or PVC pipe of the same diameter as subdrain. Pipe will be paid for as "Subdrain Outlet (DR-303)".

MK-7

- (4) Connect PE or PVC outlet with an appropriate coupler. Connect CMP outlet one of two ways: (1) Inside-fit reducer coupler (1 foot minimum fit inside CMP); or (2) Insert 1 foot of the 4 inch subdrain into 6 inch CMP and fully seal entire opening with grout.
- (5) 10 inches for 4 inch subdrain. 12 inches for 6 inch subdrain.
- Area between intake wall and subdrain shall be filled with grout.

TYPICAL SECTION - SUBDRAIN INSTALLATION/CONNECTION TO EXISTING INTAKE

FILE NO. ENGLISH DESIGN TEAM KEILY \ SUNTKEN BUTLER COUNTY PROJECT NUMBER STPN-014-7(41)--2J-12 SHEET NUMBER B.2

Roadway Items: Roadway Items	Roadway	<b>Items</b>	:	Roadway	<b>Items</b>
------------------------------	---------	--------------	---	---------	--------------

				Quantities	
Item	Item Code	Item	Unit	Estimated	Estimate Reference Notes
no.				Roadway Items	
1	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	49	Quantity calculated from length of proposed curb and gutter x 3' backfill width x 6" topsoil depth. 40% added for shrinkage.
2	2122-5190006	PAVED SHOULDER, P.C. CONCRETE, 6 IN.	SY	23.6	Refer to typical MK-6, tabulation 112-9 and D-sheets for additional information.
3	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	390.2	Refer to tabulation 102-6C for additional information.
4	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	53	
5	2213-6745500	REMOVAL OF CURB	STA	6.3	Refer to tabulation 110-4 and D-sheets for additional information.
6	2214-5145150	PAVEMENT SCARIFICATION	SY	1,731.8	Refer to typical MK-1, tabulations 100-25, 102-5 and 102-16 and D and U sheets for additional information.
7		HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	270.95	Refer to typicals MK-1, MK-2, MK-3 and tabulations 100-25 and 102-16 for additional information. Binder is calculated at 6%.
8	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT	TON	286.87	
9	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	33.47	
10	2315-8275055	SURFACING, DRIVEWAY	TON	3	Refer to tabulation 102-3 for additional information.
11	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	684	Refer to typical MK-7 and tabulation 104-9 for additional information.
12	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	2	
13	2511-6745900	REMOVAL OF SIDEWALK	SY	12	A. Refer to Tab. 110-5 on Sheet  B. Includes lin. ft. of full depth saw cut.  See traffic control plan for pedestrian staging or closings
14	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	9	Refer to Typical 7401 on Sheet See traffic control plan for pedestrian staging or closings.
15	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	3	Refer to Tab. 112-4 on Sheet See traffic control plan for pedestrian staging or closings
16	2511-7528101	DETECTABLE WARNINGS	SF	8	
17	2512-1725306	CURB AND GUTTER, P.C. CONCRETE, 3.0 FT.	LF	309	Refer to typical MK-1 and tabulation CG-1 for additional information.
18	2512-1725506	CURB AND GUTTER, P.C. CONCRETE, 5.0 FT.	LF	319.2	
19	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	132.9	Refer to typical MK-5 and tabulation 102-3 for additional information.
20	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	138.1	Refer to tabulation 110-08 for additional information.
21	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	96.08	Refer to tabulation 108-22 for additional information.
22	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	1	Refer to tabulation 108-29 for additional information.
23	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	26.28	Refer to tabulation 108-22 for additional information.
24	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	1	Refer to tabulation 108-29 for additional information.
25	2528-2518000	SAFETY CLOSURE	EACH	2	Refer to tabulation 108-13A for additional information.

Design Team :Mary Kelly County Name :Butler Project Number:STPN-014-7(41)--2J-12 11/18/2021 7:47 AM SHEET C.1

				Quantities		
Item	Item Code	Item	Unit	Estimated	Estimate Reference Notes	
no.				Roadway Items		
26	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to tabulation 108-23A for additional information.	
27	2528-8445113	FLAGGERS	EACH	0	See Proposal.	
28	2528-8445115	PILOT CARS	EACH	0		
29	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	245.1	Refer to tabulation 102-6C for additional information.	
30	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	10		
31	2533-4980005	MOBILIZATION	LS	1		
32		RAILROAD PROTECTIVE LIABILITY INSURANCE FOR CHICAGO, CENTRAL AND PACIFIC RAILROAD / CEDAR RIVER RAILROAD COMPANY	LS	1		
33		OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	24	Refer to tabulation 100-36 for additional information.	
34	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	6		
35		REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	6		
36	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	2	Refer to tabulation 100-37 and special detail sheet U.2 for additional information.	
37		MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	2		
38	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	2		

### Other Comments:

Question was raised to have 31' b-b of curb. It will remain 27 feet b-b curb as this is an improvement.

New curb and gutter will tie into the intakes at Railroad Street.

New watermain is east under sidewalk. hsould be not water valves or manholes to adjust.

Ron would like the incidental seeding to be hydro-mulch.
Add construction survey bid item, silt log item.
If road closure, specify detour route and maintenance of it.

Design Team :Mary Kelly County Name :Butler Project Number:STPN-014-7(41)--2J-12 11/18/2021 7:47 AM SHEET C.2

10-18-05

### PROJECT DESCRIPTION

Project includes milling and resurfacing from Coates St. to the Bridge over Beaver Creek. Project also includes replacing the curb and gutter from Coates St. to Railroad St., PCC Patching from Bethel St. to the Bridge over Beaver Creek and updating ADA ramps at Railroad St.

### SAFETY CLOSURES

Refer to Section 2528 of the Standard Specifications Closure Type Station Road Qty. Hazard Qty 990+43.00

04-19-22

UTILITIES

(NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

> 102-5 04-18-17

10-18-05

### **EXISTING PAVEMENT**

			Location						Sur	face	В	ase	Sub	base	Rem	oval	Coarse	Aggregate		Reinforcement				
lo.	County	Route		Begin Ref. Loc. Sign	End Ref. Loc. Sign	Year	Туре	e Project Number	Project Number	Project Number	Project Number	Туре	Depth IN	Туре	Depth IN	Туре	Depth IN	Туре	Depth IN	Source	Туре	Durability Class	Туре	Remarks
1	12	14	NB	145.14	146.56	2012	V	HDP-014-7(036)3C-12	HMA	1.5	HMA	1.5					Riverview A17024	C.Lst	4		Ends at Buswell St.			
-						1995		NA	AAC	5.5					Mil	1.5	Brandt Pit	Gravel						
						1978		NA	BAC	4.5														
						1929			PCC	7														
2	12	14	NB	146.56	146.62	NA		NA	PCC	7.5					<u> </u>				-		Thickness assumed at 7.5"			
-			1			1988		F-14-7(17)20-12	AAC	3														
						2009		MP-014-2(704)14776-12	HMA	3					Mil	3								
																			-					
3	12	14	NB	146.62	146.8	1984 2009		BRF-F-14-7(5)2P-12 MP-014-2(704)14776-12	PCC	9		ļ		<u> </u>							Near RR approach			

### TNDEX OF TABULATIONS

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262-6	Utlitites (Not a Point 25 Project)	C.3
102-5	Existing Pavement	C.3
111-25	Index of Tabulations	C.3
105-4	Standard Road Plans	C.3
100-36	Open-Throat Curb Intake Sediment Filter	C.3
100-37	Grate Intake Sediment Filter Bag	C.3
110-08	Removal of Concrete Drives	C.3
110-4	Curb Removal	C.3
102-6C	Full Depth Patches	C.4
104-9	Longitudinal Subdrain Shoulder and Backslope	C.5
102-3	Access Points and Safety Ramps	C.5
CG-1	Curb and Gutter	C.5
100-19	Perimeter, Slope and Ditch Check Sediment Devices	C.5
112-9	Shoulders	C.5
100-25	HMA Pavement	C.6
102-16	Notches and Runouts for Resurfacing	C.6

STANDARD ROAD PLANS The following Standard Road Plans apply to construction work on this project.

### SEDIMENT FILTER Possible Standard: EC-602

105-4 10-18-11

111-25

10-18-11

Location	Side	Installation	Maintenance	Removal	Remarks
Station	Jiuc	LF	EACH	EACH	
994+26.00	Lt	4.0	1	1	
994+22.00	Rt	4.0	1	1	
999+00.00	Lt	4.0	1	1	
999+00.00	Rt	4.0	1	1	
1+17.50	Lt	4.0	1	1	
1+17.50	Rt	4.0	1	1	
Totals	1	24.0	6	6	

**OPEN-THROAT CURB INTAKE** 

Begin	End	Side	Length	Remarks
Station	Station		STA	100700000770500 000399
990+83.00	993+92.00	Lt	3.1	Α
990+72.83	993+92.00	Rt	3.2	A
Totals			6.3	
Α	Includes drop	ped cu	irb at ent	rances

### 111-25 10-18-11

110-08

### INDEX OF TABULATIONS

Tabulation	Tabulation Title	Sheet No.
108-22	Pavement Marking Line Types	C.7
108-29	Pavement Marking Symbols and Legends	C.7
290-01	Sidewalk Constriants	C.7
232-3B	Erosion Control (Urban Seeding)	C.7
190-61	Existing Signs to be Reinstalled	C.7

100-36 10-16-18

110-4

08-01-08

### 04-18-13 GRATE INTAKE SEDIMENT FILTER BAG

Possible Detail: 570-7

Location	Side	ide Installation Mainten	Maintenance	Removal	Remarks
Station	Jiuc	EACH	EACH	EACH	remarks
993+92.00	Lt	1	1	1	
993+92.00	Rt	1	1	1	
Totals		2	2	2	

### REMOVAL OF CONCRETE DRIVES

Location		Area	Saw Cut*	Remarks
Station	Side	SY	LF	Reliiai KS
991+36.00	Rt	17.8	15.0	Sawcut at joint
992+00.00	Rt	20.0	16.0	Sawcut at joint
992+96.00	Rt	37.9	30.0	Sawcut 35' Rt of CL
992+43.00	Lt	35.6	38.0	Sawcut at joint
997+42.00	Lt	26.9		Refer to Tabs. 102-3 & 102

138.1

DESIGN TEAM Kelly\Suntken FILE NO. **ENGLISH** 

10-17-17 Subdrains (Longitudinal)

10-20-15 PCC Driveways and Alleys

04-21-20 Hot Mix Asphalt Resurfacing

04-21-20 Routes Closed to Traffic

10-19-21 Work Within 15 ft of Traveled Way 10-15-19 Lane Closure with Flaggers

04-21-20 Line Types

04-21-20 PCC Curb Details

04-21-20 Joints

04-21-20 Open-Throat Curb Intake Sediment Filter

10-20-15 Detectable Warnings and Pedestrian Ramp

10-21-14 Notches for Resurfacing (with or without Runout)

10-15-19 Manhole Boxouts in HMA Pavement and HMA Overlays

04-21-20 Lane Closure with Flaggers for use with Pilot Car

10-15-19 Work Not Affecting Traffic (Two-Lane or Multi-Lane)

04-20-21 Railroad Crossing on Two-Lane Roadway 04-21-20 Full Depth PCC Patch with Dowels

10-19-21 Perimeter, Slope and Ditch Check Sediment Control Devices

DR-303

EC-204

MI-210

C-252

BUTLER COUNTY PROJECT NUMBER

STPN-014-7(41)--2J-12

Totals

SHEET NUMBER

C.3

SHEET NUMBER

C.4

BUTLER COUNTY PROJECT NUMBER STPN-014-7(41)--2J-12

		anti an			Dimensi			PCC Pa				PTH PAT 02, PR-103,		-105, and PR-14	ø	T	T	1		T
Count	Station	Reference Location Sign	Lane	Length	Dimension Width	Patch Thickness	With Dowels PR-103	Without Dowels PR-102	C R C PR-104	Ramp with Dowels PR-105	Patches	Composite HMA	Subbase Patches PR-140	Subbase Patch w/ 'EF' Joint PR-101	PR-101 or PR-140		'CT' Joints	'EF' Joints PR-101 No.	Anchor Lugs Removal	Remarks
			L, R, or B		FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	NO.	NO.	I NO.	First Date.
1	989+10.00 989+10.00		RT LT	40.0 55.0	6.0	12.5 12.5	26.7 36.7													Finish Patch Finish Patch
3	989+70.00	1	LT	15.0	15.0	12.5	25.0				1									Finish Patch
4	989+85.00		RT	28.0	13.0	12.5	40.4													Finish - Includes Manhole on CL. Refer to PV-20
5	990+20.00		LT	30.0	13.0	12.5	43.3									-	-	-		Finish Patch Finish Patch
6	990+60.00		RT RT	20.0	9.0	12.5 7.5	20.0 7.0				1	-		-	1	-	-			FIIIISII FACCII
8	990+86.00 990+86.00	1	LT	6.0	10.5	7.5	7.0			1	<del> </del>	<u> </u>				-	Time to the second			
	991+03.00		RT	6.0	10.5	7.5	7.0													
	991+03.00		LT	6.0	10.5	7.5	7.0										_		-	
	991+80.00		RT LT	6.0	10.5	7.5	7.0 7.0									-			-	
	991+80.00 991+90.00	-	RT	6.0	10.5 10.5	7.5	7.0													
	991+90.00		LT	6.0	10.5	7.5	7.0			1										
	992+00.00		RT	6.0	10.5	7.5	7.0													
	992+00.00		LT	6.0	10.5	7.5	7.0									-	+		-	
	992+32.00	-	RT RT	6.0	10.5	7.5 7.5	9.3 7.0					-				-		1		
	992+51.00 993+54.00	-	RT	6.0	10.5	7.5	7.0						Ì					1		
20	993+68.00		RT	6.0	10.5	7.5	7.0													
21	993+68.00		LT	6.0	10.5	7.5	7.0										-	-		
	993+85.00		RT	6.0	10.5	7.5	7.0					-		1			-			
23	993+85.00 994+18.00		LT RT	6.0	10.5 10.5	7.5	7.0 7.0						1				1		<u> </u>	
	994+18.00		LT	6.0	10.5	7.5	7.0										1			
	996+25.00		RT	6.0	12.0	9.0	8.0													North of RR
	996+25.00		LT	6.0	12.0	9.0	8.0									-			<u> </u>	North of RR
	996+35.00		RT	6.0	12.0	9.0	8.0				-					-		+		
30	996+35.00 996+45.00		LT RT	6.0	12.0 12.0	9.0	8.0			-										
	996+45.00		LT	6.0	12.0	9.0	8.0													
	996+57.00		RT	9.0	12.0	9.0	12.0													
	996+57.00		LT	9.0	12.0	9.0	12.0							<u> </u>					-	
	996+91.00 996+91.00		RT LT	6.0	12.0 12.0	9.0	8.0				1									
36	997+10.00		RT	6.0	6.0	9.0	4.0			No. of the Control of										
	997+10.00		LT	6.0	12.0	9.0	8.0													
	997+42.00		LT	28.0	3.5	10.5	10.9					ļ							-	Refer to Tab. 102-3 & Typ. MK-5 for add'l info.
	998+18.00		RT	6.0	12.0	9.0	8.0									-		-		
	998+18.00 998+24.00	-	LT LT	6.0	12.0 12.0	9.0	8.0									1				
42	998+41.00		LT	6.0	6.0	9.0	4.0													
	998+60.00		RT	6.0	6.0	9.0	4.0													
44			LT	6.0	6.0	9.0	4.0				-							-		A, Curb and Gutter Unit. Refer to PV-102
	998+70.00 998+73.00	-	RT LT	30.0	3.5 6.0	9.0	11.7 4.0					-				-		-		A, curb and ducter onit: Rever to 14-102
	998+87.00	1	LT	6.0	6.0	9.0	4.0													
	999+09.00		LT	6.0	6.0	9.0	4.0									ļ				
49	999+24.00		RT	6.0	6.0	9.0	4.0			The state of the s			<u> </u>							
	999+24.00		LT	6.0	6.0	9.0	4.0											-		A, Curb and Gutter Unit. Refer to PV-102
	999+30.00 999+41.00	-	RT RT	65.0	3.5 12.0	9.0	25.3 8.0				1		1		·			A STATE OF THE PARTY OF THE PAR		3 and dece. 3.121. Never to 1.102
	999+41.00		LT	6.0	12.0	9.0	8.0							1						
54	999+59.00		LT	6.0	6.0	9.0	4.0													
	999+76.00		RT	6.0	6.0	9.0	4.0									-	-	-	-	
	999+76.00	-	LT LT	6.0	6.0	9.0	4.0									1	-			
	+13.00 +32.00		RT	6.0	6.0 12.0	9.0	8.0		····											
	+32.00		LT	6.0	12.0	9.0	8.0				Ì									
	+50.00		RT	6.0	6.0	9.0	4.0													
61	+50.00		LT	6.0	6.0	9.0	4.0									-	-		-	
	+58.00	-	RT LT	6.0	12.0 12.0	9.0	8.0			-						-	-			
	+58.00 +94.00	-	RT	6.0	12.0	9.0	8.0									1				
	+94.00		LT	6.0	12.0	9.0	8.0													
66	1+52.00		RT	6.0	12.0	9.0	8.0													Finish Patches - Bridge Approach Pavement
67	1+52.00		LT	6.0	12.0	9.0	8.0									<del> </del>	-			Finish Patches - Bridge Approach Pavement
67	count			-			635.3										-			
			702-000																	
А	Finish Patch	+														1				
				-														1		
											-			-		1			-	

ENGLISH DESIGN TEAM Kelly\Suntken

### LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

\* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches. Longitudinal Subdrain (DR-303) Subdrain Outlet Location Class "A"\* Depth Shoulder Backslope Bridge Berm (EW-203 or EW-204) DR-303, DR-305 or DR-306 Porous\* Crushed Remarks Line Road or Lane Backfill ( D Station to Station Side Stone Standard Road Plan Standard Road Plan Identification Size Length Size Length Size Length No. Station and Type and Type 993+92.00 DR-303, Typ. MK-6 SBL 990+50.00 993+92.00 66.0 4.0 342.0 16.7 993+92.00 DR-303, Typ. MK-6 16.7 990+50.00 993+92.00 66.0 342.0 NBL RT 4.0 684.0 Totals

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.

Refer to MI-210 Refer to EW-501.

Refer to EW-501 or EW-502.

\*Predetermined for access point not constructed with this project.

Location	,	Туре	Ler	ength of Open:	ing 1	'	1 2	(2)		ig.	Pipe Culve	ert 3			Assessment of the second	y Surface rea	Driveway	
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb	W	PR	SR	Н	Size	Pipe Length	Lt.	Rt.	Aprons	НМА	PCC	- Surfacing Material	Remarks
	′ـــــــــــــــــــــــــــــــــــــ	or Predetermined	1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
991+36.00	Rt	C	1	20.0		15.0	-	-			-		-	-	-	13.3	<del> </del>	
992+00.00		C	1	18.0	_	16.0		1			-		1			16.0		
992+41.00		C	1	28.0		24.0						(				11.1	2.000	4' Entrance Fillet
992+96.00			1	29.0		31.0										30.0		
995+08.00				-														A, Croell Ent - U.A.C.
997+30.00				1														Business Ent U.A.C.
998+34.00		1																Seed dealer Ent U.A.C.
+12.00																		Northside Rd - U.A.C.
992+43.00	Lt	C	1	42.0		38.0				J-100-7-1-00-7						35.6		
994+95.00				1														A, Corner building - U.A
997+42.00		C	2	24.0		22.0										26.9	1.000	
+40.00																		Uninhabitabed Bld U.A.
Totals															1	132.9		
А	Exis	ting entrance has 1	1.5" droppe	d curb fille	ed with HMA	. Contr	actor to	mill ex	xisting a	nd resur	face with	1.5" surf	ace cours	·e				
В	Sawcu	ut 28' (length) x 3 drop curb to accou	3.5' curb ar	and gutter un	nit (width).	. Remove	re curb ai	and gutte	er unit &	paved dr	rive and re	eplace in-			form grade	e and mair	tain	

TABU	LATION O	F CUR	B AND	GUTTER CG-
		Fer to PV-	102	
Station t	o Station	Side	LF	Remarks
990+83.00	993+92.00	Lt	309.0	A, 3'C&G
990+72.83	993+92.00	Rt	319.2	A, 5' C & G
Totals			628.2	
А	Refer to Typ.	MK-1 for	additional	information

102-3 10-16-18

> 112-9 10-20-20

### **SHOULDERS**

Lane(s) to which the shoulder is adjacent.

See Typ. 7156, 7157, or 7158.

Bid Item.

Applies only for Paved Shoulders constructed on project with existing granular shoulders.

Bid Item. Typ. 7156, 7157, or 7158.

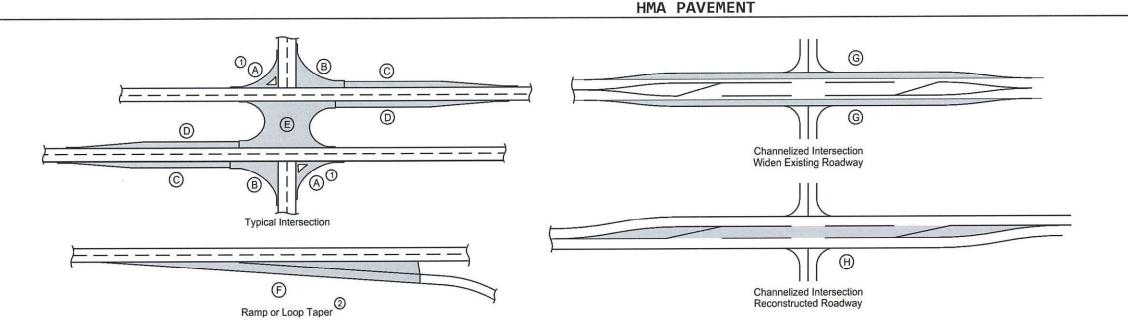
Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 0, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

		Location											1	" Payed	I	Quant:	ities			T		T		
Road	tion (E	Station to	o Station	Side	Width	Width	Width	Length	Class 13 Excavation	Hot Mi	x Asphalt	Binder	Paved Shoulder	Shoulder	Reinforced Paved Shoulder		Special B			Subbase	Granular Shoulder	Earth Shou	lternates	aar
Identification	Direct Of Tra	Jeu 2011 C	<i>y</i> 26061011		FT	FT ②	FT	FT	сү ③	TON	TON/STA	TONS	SY 3	Guardrail SY 5	0	TON 3 T	TON/STA	TON 3	TON/STA	CY ③	TON 3 TON/STA	STA (3)	CY 6	CY 6
IA 14	SB	993+20.00	993+73.00	Lt	4.0			53.0					23.6									0.5		

STPN-014-7(41)--2J-12 SHEET NUMBER C.5 BUTLER COUNTY PROJECT NUMBER DESIGN TEAM Kelly\Suntken FILE NO. **ENGLISH** 





- ① Does not include raised island area or curb.
  Refer to tabulation 112-4 for quantities.
- 2 Refer to PV-410, PV-411, PV-412, and PV-414.
- Quantity includes Pavement Header.

Calculations assume a surface course unit weight (lbs/cf) of 147, an intermediate course unit weight (lbs/cf) of 147, a base course unit weight (lbs/cf) of 0, and a special backfill unit weight (lbs/cf) of 140. Area (3) Location Mainline Hot Mix Asphalt Pavement Binder 2 Special Modified Granular В (c) D Е F) G H Surface Intermediate Backfill Subbase Subbase А Road Width Length Area Station to Station Identification TONS TONS TONS SY TONS TONS TONS TONS CY FT SY SY FT 389.7 32.221 26.699 389.7 32.221 389.7 10.5 389.7 990+50.00 993+84.00 2.136 315.4 322.9 35.598 322.9 1.602 IA 14 990+50.00 993+84.00 334.0 315.4 26.520 21.846 264.2 1.591 1.311 320.7 320.7 IA 14 IA 14 Both 993+84.00 994+45.80 19-30 61.8 320.7 28.651 385.0 1.910 1.719 385.0 31.835 385.0 994+45.80 995+61.30 30.0 115.5 385.0 1431.0 106.493 1431.0 7.100 321.0 118.326 IA 14 Both 995+70.70 1000+00.00 30.0 429.3 1431.0 620.0 46.140 620.0 3.076 2.768 51.266 IA 14 1+86.00 30.0 186.0 620.0 1731.8 286.866 270.949 17.212 16.257 Totals Refer to Typical MK-1 for additional information Refer to Typical MK-2 for additional information Refer to Typical MK-3 for additional information Refer to Special Detail Sheet U.1 for additional information Daylight milling machine at approximate Sta 996+67

								102-1 10-21-1
		NO.	TCHES	AND R	UNOUTS	FOR	RESURFACI	NG
<b>1</b>			Liver		to PR-201			
Bid item.	Applies only to	Types 'N1'	and 'N3'	on PR-202.	Reter to 1	00-25 for 1	remaining values.	
Location Station	Type of Notch or Runout	S	I	DI	L	M	Pavement (1) Scarification	Remarks
		IN	IN	IN	FT	IN	SY	
990+50.00	Type 'N4'				0.0	3.0		BOP, Refer to Typ. MK-1
1+86.00	Type 'N3'	İ			0.0	1.5	0.0	EOP
Railroad St	Type 'N5'				0.0	1.5		West & East Leg, Refer to Sheet U.1
Railroad	Type 'N4'				0.0	up to 3"		North and South Header Joint
Header					-	ļ		

		EXISTING S							
	DIRECTION		NUMBER	SQUARE	WOOD	POSTS	INSTA	LLATION	SEE SIGNIN
SIGN DESCRIPTION	OF TRAVEL	LOCATION STATION	OF POSTS	TUBE STEEL POSTS	4" x 4" LF	4" x 6" LF	TYPE	DIM 'X'	NOTES
				-				-	

FILE NO. ENGLISH DESIGN TEAM Kelly\Suntken BUTLER COUNTY PROJECT NUMBER STPN-014-7(41)--2J-12 SHEET NUMBER C.6

### PAVEMENT MARKING LINE TYPES

See PM-110

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

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

\*\*\*MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25 ELY4: Edge Line Left (Yellow) @ 1.00

DCY4: Double Centerline (Yellow) @ 2.00 SLW2: Stop Line (White) @ 6.00

NPY4: No Passing Zone Line (Yellow) @ 1.25 CHW8: Channelizing Line (White) @ 2.00

BLW4: Broken Lane Line (White) @ 0.25

ELW4: Edge Line Right (White) @ 1.00

			Loc	cation								L C	ength by L	ine Type (	Untactor	ed)	r					
Road ID	Station to	Station	Dir. of	Marking Type		Side	BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	SLW2	CHW8			10	L				Remarks
Noud 15	500000000000000000000000000000000000000		Travel		L	CF	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
IA 14	990+72.50	1000+00.00	вотн	Waterborne/Solvent Paint	X	X >		8.66	0.62									1		1		After milling
	+00.00	1+86.00	вотн	Waterborne/Solvent Paint	X	X >		- Inches	1.86													After milling
	990+72.50	1000+00.00	вотн	Waterborne/Solvent Paint	Х	X >		8.66	0.62													After interm. course
	+00.00	1+86.00	вотн	Waterborne/Solvent Paint	X	X			1.86		2.68									ļ	William Control	After interm. course
	990+72.50	1000+00.00	вотн	Waterborne/Solvent Paint	X	X X		8.66	0.62				0.43	0.30								After surface course
	+00.00	1+86.00	BOTH	Waterborne/Solvent Paint	X	XX			1.86		2.68							-				After surface course
	990+72.50	1000+00.00	вотн	Grooves Cut for Pavement Markings		X X		8.66	0.62				0.43	0.30								
	+00.00	1+86.00	BOTH	Grooves Cut for Pavement Markings	X	X			1.86		2.68							-				
	990+72.50	1000+00.00	вотн	Waterborne/Solvent Paint		XX		8.66	0.62				0.43	0.30								After grooving
	+00.00	1+86.00	BOTH	Waterborne/Solvent Paint	X	X			1.86		2.68								<u> </u>			After grooving
			Fai	ctored Total: Waterborne/Solvent Paint			1	69.28	12.40	-	8.04	-	5.16	1.20		-	_		-	<u> </u>	_	
				actored Total: Grooves Cut for Pavement Mark	kings	T-T	-	17.32		-		-		0.60	-	-	-	-	-	-	-	
			Bi	d Quantity: Painted Pavement Markings, Wate	erborne	or Sol	vent-Based			96.08												
			Bi	d Quantity: Grooves Cut for Pavement Markir	ngs					26.28						-		-	-			

PAVEMENT MARKING SYMBOLS AND	AVEMENT	MARKING	<b>SYMBOLS</b>	AND	<b>LEGENDS</b>
------------------------------	---------	---------	----------------	-----	----------------

108-29

100-19

10-19-21

									34		910	Refer t	o PM-111				a V	,							
Road Identification	Location Station Side	1	7	5	4	4	4	*	<b>^</b>	1	K	×	000	Ŀ	Ġ.	SCH00L	XING		AHEAD	ONLY	BIKE	LANE	EXIT	Groove Cuts	Remarks
		STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	EACH	
IA 14	Rt											1								<u> </u>					Replace in-kind
											-		-					-	-		·				

290-01 04-15-14

### SIDEWALK CONSTRAINTS

Widths listed in the S sheets are minimums.

Cross Slopes:

Construct all sidewalks, curb ramps, and landings/turning spaces at a target cross slope of 1.5%. Cross slopes exceeding 2.0% will not be allowed, except for areas tying into existing pavement. In these areas, transition from existing pavement cross slope to a cross slope of less than 2.0% within one panel at a rate not to exceed 1.0% per foot.

- Longitudinal Slopes:
  - a. Sidewalk:
  - i. Roadway slope exceeds 5.0%: Sidewalk longitudinal slope exceeding the roadway slope by more than 2.0% will not be allowed.
  - ii. Roadway slope 5.0% or less: Sidewalk longitudinal slope exceeding 5.0% will not be allowed.
  - b. Ramps:
  - i. Ramps 15.0' in length or less: Longitudinal slope exceeding 8.3% will not be allowed.
  - ii. Ramps greater than 15.0' in length: Construct with the longitudinal slope necessary to conform to the design.
- Landing/Turning Spaces:

Longitudinal slopes exceeding 2.0% will not be allowed

232-3B 10-19-21

### **EROSION CONTROL** (URBAN SEEDING)

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

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

Place seed and fertilize according to the requirements of Article 2601.03,C,4 and Section 4169 of the Standard Specifications.

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

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

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES

Possible Standards: EC-204 Location Perimeter and Slope Length of Installation Length of Installation Remarks 9 inch Dia 12 inch Dia 20 inch Dia 12 inch Dia 20 inch Dia End Station Side Begin Station

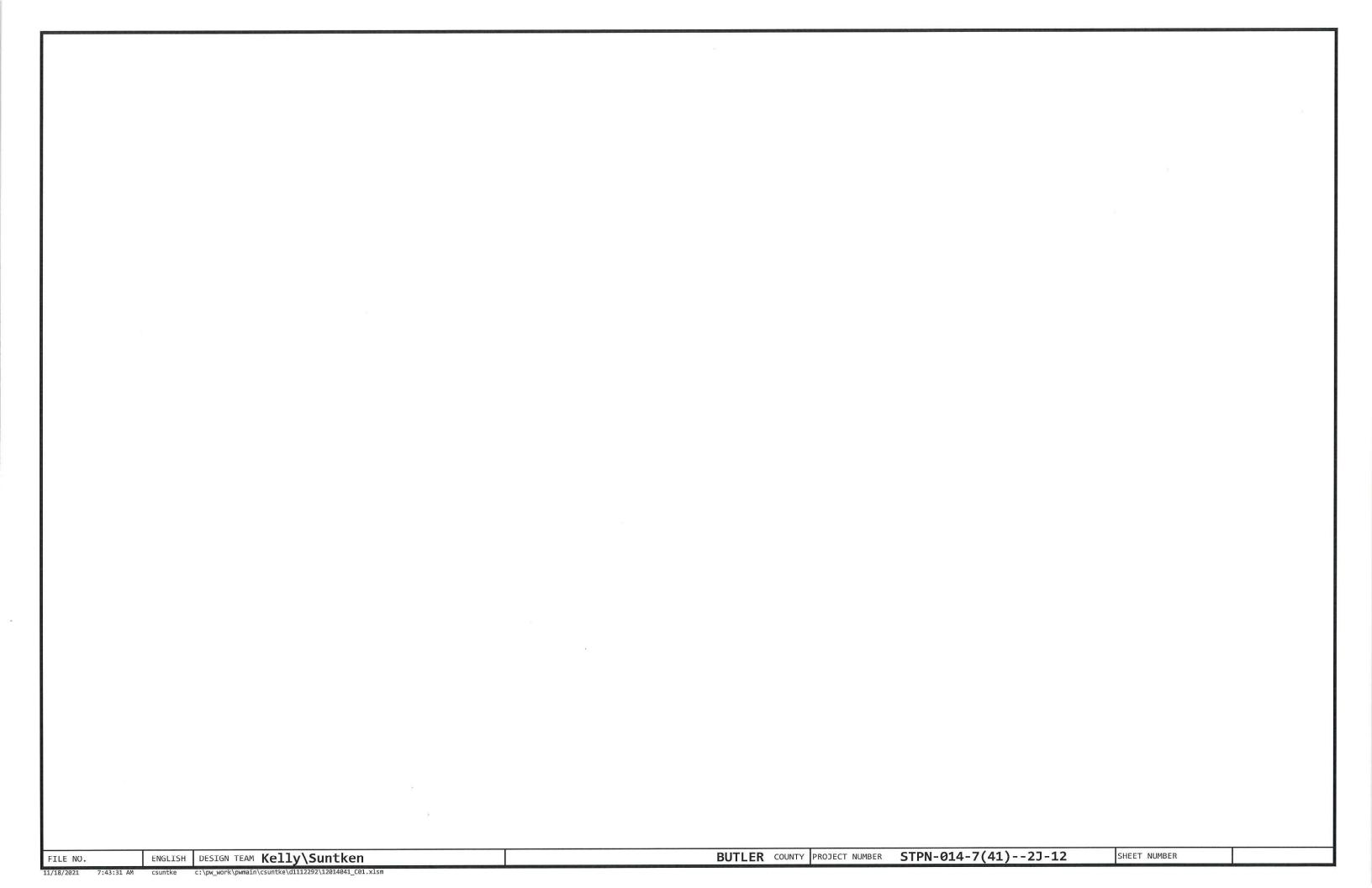
BUTLER COUNTY PROJECT NUMBER

STPN-014-7(41)--2J-12

SHEET NUMBER

C.7

DESIGN TEAM Kelly\Suntken FILE NO.







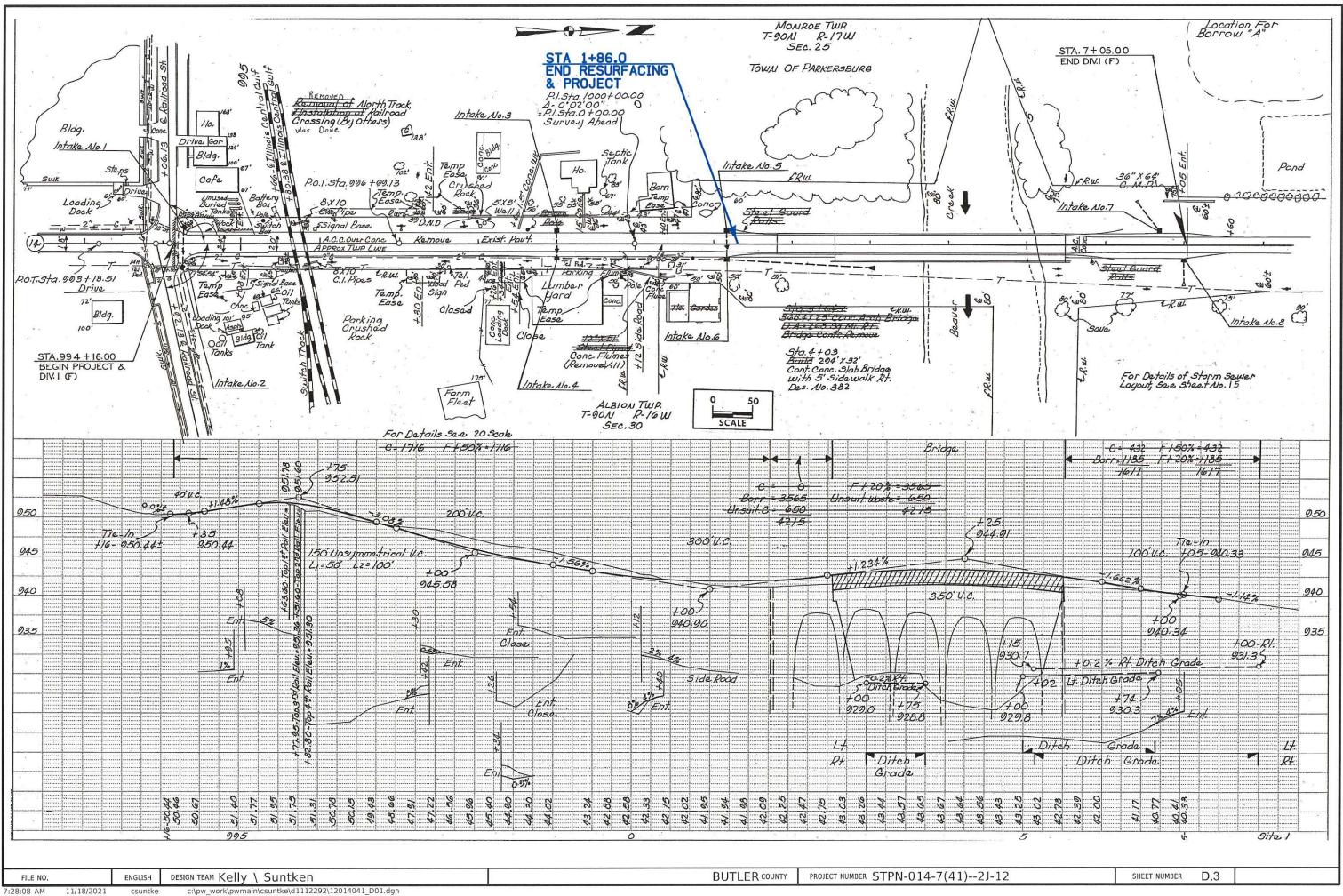


FILE NO. ENGLISH DESIGN TEAM KET SUNTKEN BUTLER COUNTY PROJECT NUMBER STPN-014-7(41)--2J-12 SHEET NUMBER D.1





FILE NO. ENGLISH DESIGN TEAM KEIJY \ SUNTKEN BUTLER COUNTY PROJECT NUMBER STPN-014-7(41)--2J-12 SHEET NUMBER D.2



		108-21 10-21-1
.on	Projected	
nt d	As Built Measurement	Remarks
	AAAA - J	
	AAN A	

### **511 TRAVEL RESTRICTIONS**

Route Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remark
travel restrictions a	anticipated										

108-23A 08-01-08

### TRAFFIC CONTROL PLAN

IA 14 shall be closed from Railroad St. to Coates St.

113-2 04-16-13

### PEDESTRIAN PATH CLOSURES

Refer to TC-601.

\*Assumes 6 foot wide barricade. Closures may need to be removed and re-established.

Location	Side	Type III Barricades*	Remarks
		No.	

108-26A 08-01-08

### STAGING NOTES

111-01 04-17-12

### COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

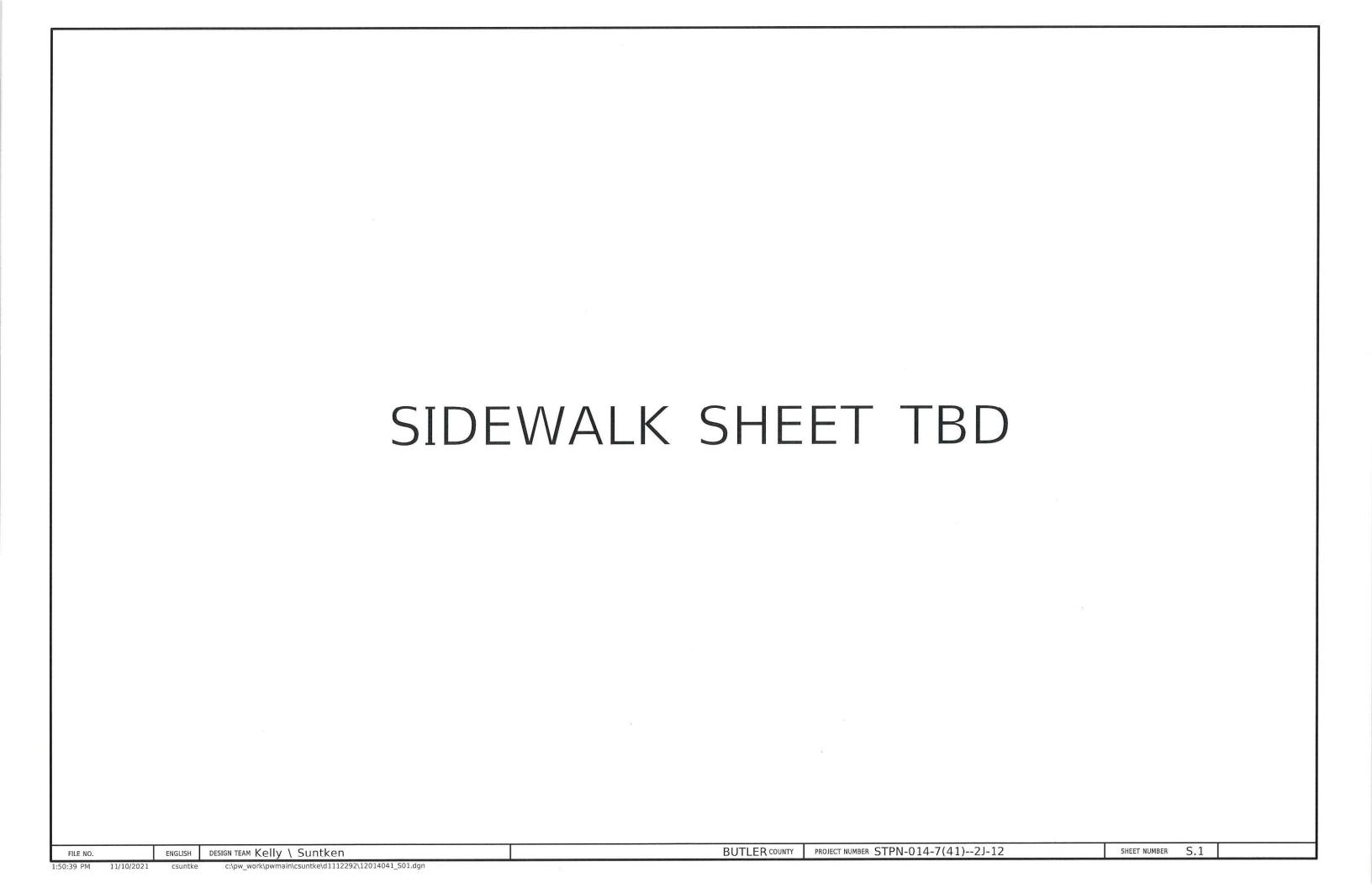
Type of Work

ENGLISH DESIGN TEAM Kelly\Suntken FILE NO.

SHEET NUMBER

J.1

BUTLER COUNTY PROJECT NUMBER MP-014-7(41)--2J-12



## SIDEWALK COMPLIANCE See S Sheets

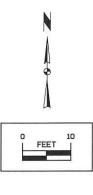
\* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

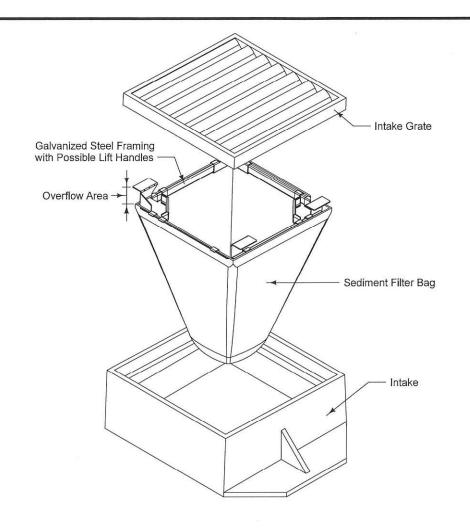
Point to Point	113-01 for bid quantities.  Sidewalk Designation			Δ* Δ Elevation	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant?	d Measured Slope	ed Initials	Remarks	VALUES	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
			FT							Nemat No	Point	Station	Offset	Elevation	
														<u></u>	
													1		

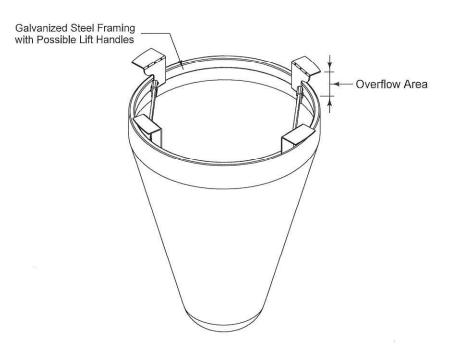




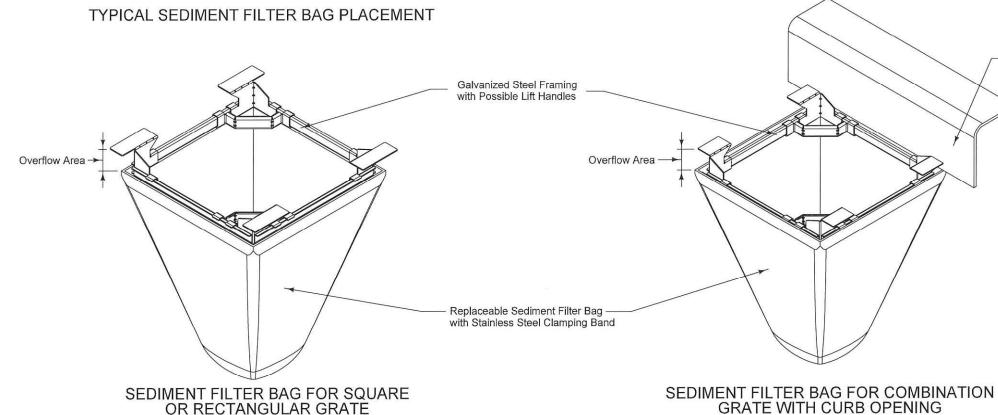


RESURFACING DETAIL - INTERSECTION IA 14 & RAILROAD ST.





SEDIMENT FILTER BAG FOR CIRCULAR GRATE



Use sediment filter bag consisting of woven material meeting the requirements of Table 4196.01-1 of the Standard Specifications, except a maximum apparent opening size of US Sieve No. 10 and a minimum flow rate of 145 gallons per minute per square foot. Sediment filter bags without steel grame and clampling bands will be allowed if overflow is provided.

Remove sediment filter bag upon stabilization of sediment

Measurement for Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Grate Intake Sediment Filter Bag will be at the contract unit price for each device installed. Payment is full compensation for furnishing all equipment, labor, and materials required to install the Grate Intake Sediment Filter Bag as shown.

Method of Measurement for Maintenance of Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Maintenance of Grate Intake Sediment Filter Bag will be at the contract unit price for each occurence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any other repair needed during the project.

Measurement for Removal of Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Removal of Grate Intake Sediment Filter Bag will be at the contract unit price for each device removed. Payment is full compensation for all labor and equipment required for removal.

Possible Contract Items:

Grate Intake Sediment Filter Bag Maintenance of Grate Intake Sediment Filter Bag Removal of Grate Intake Sediment Filter Bag

Possible Tabulation: 100-37

REVISION 04-21-20 **ROAD DESIGN DETAIL** SHEET 1 of 1 REVISIONS: Removed circle note 1 and modified general notes.

> **GRATE INTAKE** SEDIMENT FILTER BAG

FILE NO. DESIGN TEAM Kelly \ Suntken **BUTLER** COUNTY

PROJECT NUMBER STPN-014-7(41)--2J-12

- Curb Opening Cover

SHEET NUMBER

**U.2** 

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OR RECTANGULAR GRATE