#### 06-10-2016 LETTING ITEM 086

**INDEX OF SHEETS** 

1 COVER

Ο

0

Ο

Ο

- 2 GENERAL NOTES AND PROJECT SPECIFIC NOTES
- 3–5 SUMMARY OF QUANTITIES
- 6 TYPICALS
- 7 SCHEDULES
- 8 GENERAL PLAN AND ELEVATION (FOR INFORMATION ONLY)
- 9 PROPOSED PLAN
- **10-11 TRAFFIC CONTROL**
- 12–14 STRUCTURE PLANS
- 15 DECK PATCHING DETAIL
- 16-20 DISTRICT 4 STANDRADS

HIGHWAY STANDARDS

001001-02 542401-02 701001-02 701006-05 701301-04 701311-03 701321-15 701326-04 701901-05 704001-08 780001-05 782006



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 Or 811

PROJECT ENGINEER: RICHARD DOTSON (309-671-3455) PROJECT MANAGER: KEVIN HORST (309-671-3472) CATALOG NO. 035312-00D STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

FAP ROUTE 546 (IL 94) SECTION (25BC-BR)I CONTRACT MAINTENANCE MERCER COUNTY

C-94-098-15



IL 94 OVER POPE CREEK STA. 181 + 34.62 TO 182 + 84.92



F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
546	(258C-8R))	MERCER	20	1
`	ILLINOIS	CONTRACT	NO. 6	8076





REPLACE EXPANSION JOINTS AND CLEAN/PAINT BEARINGS ON SOUTH PIER OF STRUCTURE CARRYING IL 94 OVER POPE CREEK (SN 066-0009), 3.9 MILES SOUTH OF ALEDO.

#### EXISTING STRUCTURE NO. 066-0009

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED March 21 20 16 Mensil a. Carnetty Region THREE ENGINEER May be 20 6 May 1000 M. DOB DE by May 10000 M. DOB DE by May 10

### PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### **GENERAL NOTES**

#### COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. No commitments were made.

#### **PROPERTY OWNER ACCESS REQUIREMENT**

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

#### **ENVIRONMENTAL REVIEWS**

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form \* D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications,

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

#### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use:	HMA Shoulder, 8"
AC/PC:	6422
Design Air Voids:	4.0% at N=50
Mixture Composition (Gradation Mixture)	HL 9.5
Friction Aggregate	Mix C
Quality Managment Program	0COA

- HMA Shoulder, 8" shall be placed in three lifts. The bottum lift will be 4 inches followed 1 by the middle lift of 2 inches, and the final lift of 2 inches,
- For design purposes, mixture weight for all mixes is determined to be 112.0 lb/(sy\*in) unless 2. otherwise noted.

**ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS** The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

#### **NO PASSING ZONE VERIFICATION**

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

### **PROJECT SPECIFIC NOTES**

- 1. Any work required to connect the proposed pipe drain to the existing inlet at IL 94 sta. 181+03.6 LT shall be included in the cost of PIPE DRAINS 12".
- The aggregate for the guardrail aggregate erosion control shall be ca1 gradation in accordance 2. with Article 1004.01(c) of the Standard Specifications. The aggregate shall be deposited and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

FILE NAME +	USER NAME = oubroyga	DESIGNED -	REVISED -				CENER		TEC A
D468C76-sheets.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	l l		UCIVEN	AL NU	ICS A
	PLOT SCALE + 100.8008 1/ In.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	i i		PROJECT	SPECIF	IC NO
Oefouit	PLOT DATE x 3/24/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.

AND		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		546	(258C-BR)]	MERCER	20	2
0120				CONTRACT	NO. 6	8076
•	TO STA.		ILLINOIS FED.	ATO PROJECT		

				CONSTRU	CTION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SN 066-0009
				0003	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	35. 4	35.4	
21101616	TOPSOTI FURNISH & PLACE. 4"	SO YD	67	67	
48203029	B HOT - MIX ASPHALT SHOULDERS, 8"	SO YD	159.3	159.3	
50102400			16.5		16.5
50102400			10.3		
50300255	5 CONCRETE SUPERSTRUCTURE	CU YO	16,5		16.5
50800205	REINFORCEMENT BARS, FPOXY COATED	POUND	2350		2350
50800515	BAR SPLICERS	EACH	54		54
52000110	PREFORMED JOINT STRIP SEAL	FOOT	132		132
54210182	2 PIPE ELBOW. 12"	EACH	1		
5421554	METAL END SECTIONS 12"	EACH	1		
60100949	5 PIPE DRAINS 12"	FOOT	26	26	
61000050	CONCRETE THRUST BLOCKS	EACH			
· · · ·	· · · · · · · · · · · · · · · · · · ·		<u></u>		
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
· · · · · · · · · · · · · · · · · · ·					
					· ·····
					_

FILE NAME =	USER NAME = audreygs	DESIGNED -	REVISED -		
0468C76-sheets.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	CHIMBAADV OF OHAN
	PLOT SCALE + 100.0000 1/ 15.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARI OF LUAN
	PLOT DATE + 3/24/2016	DATE -	REVISED -		

	F.A.P	SECTION	COUNTY	TOTAL	SHEET
TITIES	546	(258C-8R)]	MERCER	20	3
111160			CONTRACT	NO. E	8C76
		ILLINDIS FED. AI	D PROJECT		

				CONSTRU	CTION CODE
			1		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005	SN 066-0009 0014
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM		1	
					· · · ·
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2	<u> </u>
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
		root		1184	
70107006	PAVEMENT MARKING BLACKOUT TAPE. 6"	+001	1104	1104	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	592	592	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	462.5	462.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	425	425	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	ЕАСН	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	ЕАСН	2	2	
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2180	2180	
		5007	26	26	
×032358	PIPE DRAIN REMOVAL		20	20	
X032633	CLEANING AND PAINTING BEARINGS	EACH	5	5	
Z000100	GUARDRAIL AGGREGATE EROSION CONTROL	TON	14	14	
SPECIALTY	ITEM		L	J	
	ESIGNED - REVISED - STATE OF ILLINOIS RAWN - REVISED - STATE OF ILLINOIS HECKED - REVISED - DEPARTMENT OF TRANSPORTATION		SUMMAR	OF QUANTITIE	S
<u>-</u>	ATE - REVISED -				

FILE NAME :	USER NAME + aubrayge	DESIGNED -	REVISED -		
D458C75-sheets.dgn		ORAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF OUAN
	PLOT SCALE + 100,0000 // 10-	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE + 3/24/2016	DATE -	REVISED -		·
		······································			

+ 100.5000 1/ in.	DR/ CHE	IWN - ECKED ~	REVISED -	STATE OF ILLINOIS	ON	SUMMARY	OF C
t aubreygs	DES	SIGNED -	REVISED ~			<u></u>	
		<u> </u>					
	}						
			· · · · · · · · · · · · · · · · · · ·				
	<u> </u>						
							••••••••
			<u></u>			1	
							L
			<u></u>				
		· · · · · · · · · · · · · · · · · · ·				+	
					······································		
							<u> </u>
	· · · ·		-		·····		
			<u> </u>				
				2 - The state of t		-	
2							
	70016200	DECK SLAB REPAIR	( PARTIAL )				
	Z0007114	CONTAINMENT AND D	ISPOSAL OF NON-LEAD PAT	NT CLEANING RESIDUES	L SUI	м 1.0	
	NO.			ITEM	UNI	QUANTITY	
	CODE		······································			TOTAL	
							ļ

FILE NAME :	USER NAME = aubrayga	DESIGNED -	REVISED -		
0468C78-sheets.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	012868885
	PLOT SCALE + 100.0000 1/ in.	CHECKED ~	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMWARY
	PLOT DATE + 3/24/2016	DATE -	REVISED -		

NTITIES		546	(25BC+BR))	MERCER	20	
		F.A.P RTE.	SECTION	COUNTY	SHEETS	SHE
					r	
	L					
	····					
·····						
	<u> </u>					
······						
	<u> </u>					
	7.2					
·	*					
	1.0					
05	0014					
)WAY	SN 066-0009					
~~~~~						
UNSTRUC	TION CODE					
ONSTRUC	TION CODE	]				

	F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
TITIES	546	(258C+8R)I	MERCER	20	5
			CONTRACT	NO. 6	8C76
		ILLINOIS FED. A	D PROJECT		



			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AL SECTION		546	(25BC-BR)I	MERCER	20	6	
				CONTRACT	NO. 6	8C76	
S	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

TEMPORARY RUMBLE STRIP		
STATION TO STATION	EACH	
STAGE 1 & 2		
161+20	1.0	
166+20	1.0	
171+20	1.0	
193+16	1.0	
198+16	1.0	
203+16	1.0	
TOTAL	6	

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3		
STATION TO STATION	EACH	
STAGE 1		
179+83.5	1.0	
184+46	1.0	
TOTAL	2	

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3		
STATION TO STATION	EACH	
STAGE 2		
180+03	1.0	
184+28	1.0	
TOTAL	2	

PIPE DRAIN REMOVAL		
	LENGTH	
ECCATION	(FEET)	
STA. 181+03.6 LT	26	
TOTAL	26	

TRAFFIC CONTROL & PROTECTION STANDARD 701326			
LOCATION L SUM			
JOBSITE	1		
TOTAL	1		

MOBILIZATION	
LOCATION	L SUM
JOBSITE	1
TOTAL	1

PIPE DRAINS, 12"		
	LENGTH	
LOCATION	(FEET)	
STA. 181+03.6 LT	26	
TOTAL	26	

CONCRETE THRUST BLOCKS		
LOCATION	EACH	
STA. 181+03.6 LT	1	
TOTAL	1	

TRAFFIC CONTROL & PROTECTION STANDARD 701321		
L SUM		
1		
1		

TEMPORARY CONCRETE BARRIER			
			LENGTH
STATION TO STATION			(FT)
179+83.5 TO 184+46			462.5
TOTAL			462.5

RELOCATE TEMPORARY CONCRETE						
	BARRIER					
STATION TO STATION			LENGTH			
			(FT)			
180+03	425.0					
	425					

TEMPORARY BRIDGE TRAFFIC SIGNALS					
STATION TO STATION EACH					
STAGE 1 & 2					
178+70	1.0				
TOTAL			1		

TRAFFIC CONTROL SURVEILLANCE			
LOCATION	CAL DAY		
WIDENING	2		
TOTAL	2		

31
CONC
STA
0174.

TOTAL			35.4		
н					
CTAT!			AREA		
STATI		TION	(SY)		
	STAGE 1				
179+94	то	181+01	36		
183+04	ТО	184+36	44		
STAGE 2					
179+94 TO 181+01		36			
183+04 TO 184+36		44			
TOTAL 160					
PIPE ELBOW, 12"					
LOCATION					EACH
STA. 181+03.6 LT					2

EARTH EXCAVATION (WIDENING)

183+04 TO 184+36 9.8

184+36

181+01

STATION TO STATION

 STAGE 1

 179+94
 TO
 181+01

STAGE 2

183+04 TO

179+94 TO

VOLUME

(CY)

7.9

9.8

7.9

METAL END SECTIONS 12"	
LOCATION	EACH
STA. 181+03.6 LT	1
TOTAL	1

TOTAL

GUARDRAIL AGGREGATE ERSOSION CONTROL	

LOCATION	LT/RT	WEIGHT	
		TONS	
179+94 TO 181+01	LT	3.0	
179+94 TO 181+02	RT	3.0	
183+04 TO 184+36	LT	3.8	
183+04 TO 184+37	RT	3.8	
TOTAL		13.6	

2

LOCATION	L SUM	
5 BEARINGS ON SOUTH SIDE OF SOUTH PIER	1	
TOTAL		

FILE NAME =	USER NAME = aubreygs	DESIGNED -	REVISED -					SCHEI
D468C76-sheets.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				JOILL
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				
Default	PLOT DATE = 3/24/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEET

EPOXY PAVEMENT MARKING-LINE 4"							
			YELLOW SOLID 4"	YELLOW SKIP-DASH 4"	WHITE SOLID 4"		
STATION TO STATION			(FT)	(FT)	(FT)		
178+42.00	то	185+76.00		190.0	1468.0		
178+42.00	TO	183+64.00	522.0				
SUB-TOTAL			522.0	190.0	1468.0		
TOTAL			71	2.0	1468.0		
GRAND TOTAL				2180.0			

PAVEMENT MARKING BLACKOUT TAPE, 6"							
			CENTERLINE	STAGE 1 EDGELINE	STAGE 2 EDGELINE		
STATION TO STATION		(FT)	(FT)	(FT)			
178+42.00	то	179+98.00	156.0				
184+32.00	TO	185+76.00	144.0				
179+94.00	TO	184+36.00		442.0	442.0		
SUB-TOTAL			300.0	442.0	442.0		
TOTAL				1184.0			

DECK SLAB REPAIR (PARTIAL)						
ARE						
LOCATION	(SY)					
4 LOCATIONS						
LOCATION 1 (4 FT X 4 FT)	1.8					
LOCATION 2 (4 FT X 4 FT)	1.8					
LOCATION 3 (4 FT X 4 FT)	1.8					
LOCATION 4 (4 FT X 4 FT)	1.8					
TOTAL	7.2					

CLEANING AND PAINTING BEARINGS					
LOCATION	EACH				
5 BEARINGS ON SOUTH SIDE OF SOUTH PIER	5				
TOTAL	5				

#### SHORT TERM PAVEMENT MARKING REMOVAL

			CENTERLINE	STAGE 1 EDGELINE	STAGE 2 EDGELINE
ОТАТІ		ATION		(05)	(05)
STAT	ONTOST	ATION	(5r)	(5r)	(5+)
178+42.00	TO	179+98.00	78.0		
184+32.00	TO	185+76.00	72.0		
179+94.00	TO	184+36.00		221.0	221.0
SUB-TOTAL			150.0	221.0	221.0
TOTAL				592.0	

DULES		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	546	(25BC-BR)I	MERCER	20	7
			CONTRACT	NO. 6	8C76
S STA. TO STA.		ILLINOIS FED. A	ID PROJECT		





FILE NAME =	USER NAME = aubreygs	DESIGNED -	REVISED -		PROPOSED PLAN					F.A.P RTF	SECTION	COUNTY	TOTAL	SHEET	
D468C76-sheets.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS			•				546	(25BC-BR)I	MERCER	20	9
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO.	68076
Default	PLOT DATE = 3/25/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEE	IS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		







the removal area shall be cleaned, straightened Any reinforcement bars that are damaged during

Ĕ	<u>BILL O</u>	FMA	TERIA	=
Bar	No.	Size	Length	Shape
a(E)	48	#5	16'-10''	
a1(E)	48	#5	15'-10''	
a2(E)	24	#6	4'-0''	
,				
d(E)	44	#5	5'-10''	<u> </u>
h(E)	6	#6	18'-2''	
$h_I(E)$	- 6	#6	15'-0''	
Concrete	Removal		Cu. Yd.	16.5
Concrete	Superstru	icture	Cu. Yd.	16.5
Bar Splice	ers	Each	54	
Reinforce Epoxy Co	ment Bar. ated	Pound	2350	

EMENT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
1	546	1258C-8R1	MERCER	20	12
·		~	CONTRACT	NO. 68	3C76
EETS		ILLINOIS FED.	AID PROJECT		







DESIGNED CCC DATE APRIL 25, 2016 PREFORMED JOINT STRIP CHECKED ATH STATE OF ILLINOIS SN 066-0009 Carl Progray DRAWN Steffen PASSED REVISED DEPARTMENT OF TRANSPORTATION SHEET NO. 2 OF 3 SH CHECKED CCC ATH REVISED

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall motch the configuration of the Locking Edge Ralls. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only. except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 315".

sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



\*\*\* Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail

similar.

#### BILL OF MATERIAL

Item	1		Unit	Total
Preformed Joint	Strip	Seal	Foot	132

SEAL DETAILS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
	\$46	(2586-890)	MEACER	50	13
·			CONTRACT	NO. 68	3C76
EETS		ILL HOIS FED. AI	O PROJECT		



Threaded splicer bar length = min. lap length +  $I_2^{\prime\prime}$  + thread length

 Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bor size	No. assemblies required	Minimum lap length
Deck	#5	48	3'-6"
Abutments	#6	6	4'-0''
	]		



#### INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nalling to wood forms or cementing to steel forms,
 (E) : Indicates epoxy coating.





#### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi eld strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

ANICAL SPLICER DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
<i>*</i>	546	(258C-8A)I	MERCER	20	14
•			CONTRACT	NO. 6	BC76
EETS	[	ILLINOIS FED. AI	O PROJECT		



SCALE:

SHEET

Default

PLOT DATE = 3/24/2016

DATE

REVISED ·

DECK SLAB REPAIR DETAIL		F.A.P RTE.	SECTION	COUNTY	SHEETS	SHEET		
				546	(25BC-BR)I	MERCER	20	15
						CONTRACT	NO.	68C76
OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

#### SLOPE DRAIN FOR BURIED PIPES

M.A.



All dimensions are in inches (millimeters)

DR BURIED PIPES			SEC	ION		СС	DUNTY	TOTAL SHEETS	SHEET NO.
		546 (25BC-BR)I					ERCER	20	16
						CO	NTRACT	NO. 6	68C76
CADD STD. 601101-D4	FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID PRO	JECT		



01-01-97	RENUM. J-11.05, NEW REVISION BOX,	Т.Р.			
	REVISED TITLE BOX			STATE OF ILLINOIS	PIPE ELBO
10-16-06	REVISED TO 2007 SPEC.	M.A.		DEPARTMENT OF TRANSPORTATION	
					NOT TO SCALE

_E A	
GN CONTR	OLS
s of Pipe pe requir	e Elbow and minimum red for fabrication
ELBOW	DEGREE OF ELBOW ≥ 46°
)	4′(1 <b>.</b> 22M)
)	4′(1.22M)
)	4′(1 <b>.</b> 22M)
)	4′(1.22M)
1)	4′(1 <b>.</b> 22M)
1)	6′(1 <b>.</b> 83M)
1)	6′(1 <b>.</b> 83M)

## All dimensions are in inches (millimeters) unless otherwise noted.

	NO.
JW 546 (25BC-BR)I MERCER 20	17
CONTRACT NO. 68	C76
CADD STD. 601301-D4 FED. ROAD DIST. NO. ILLINDIS FED. AID PROJECT	

## CONCRETE THRUST BLOCK BILL OF MATERIALS

PIPE SIZE	Х	Y	CLASS SI CONCRETE cu. yd. (m <sup>3</sup> )
12(300)	24(600)	24(600)	0.2(0.2)
15(375)	27(675)	27(675)	0.3(0.2)
18(450)	30(750)	30(750)	0.3(0.2)
24(600)	36(900)	36(900)	0.4(0.3)
30(750)	3'-6'' (1.07m)	3'-6'' (1.07m)	0.8(0.6)

SIDE VIEW

The contract unit price each for CONCRETE THRUST BLOCK shall include the cost of excavation, CLASS SI CONCRETE and compacted backfill.

	QUANTITIES					
CALC.I CHECK QUANTI FILE A BUREAU DOCUME	BY: DATE: ED BY: DATE: TY CALCULATIONS ARE ON T THE DISTRICT 4 OFFICE; J OF PROJECT IMPLEMENTATION STATION SECTION	÷				
01-01-97	RENUM. J-10.04, NEW REVISION BOX, ADDED	QUANTITY	T.P.			
	CALCULATION BOX			1		
10-16-06	REVISED TO 2007 SPEC.		M.A.			-

. J-10.04, NEW REVISION BOX, ADDED QUANTITY T.P.					F.A.P RTF.	SECTION	COUNTY	TOTAL SHEET
LATION BOX		STATE OF ILLINOIS	CONCRETE THRUST BLOCKS		546	(25BC-BR)I	MERCER	20 18
ED TO 2007 SPEC. M.A.		DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. 68C76
			NOT TO SCALE	CADD STD. 609001-D4	FED. ROAD	DIST. NO. ILLINOIS FED. AI	D PROJECT	



### SECTION A-A

## All dimensions are in inches (millimeters) unless otherwise noted.



08-02 ADD CROSSWALK DMNS. WITH T.S.

M.A.

NOT TO SCALE

	F.A.P RTE.		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
MARKINGS	546		(25BC	-BR)I		MERCER	20	19
SHT. 1 OF 2						CONTRACT	NO. 6	8C76
CADD STD. 780001-D4	FED. RC	DAD DIST.	NO.	ILLINOIS	FED. AID	PROJECT		



IGE	CONTINUOUS	(Includes Width Transitions for Median and Left Turn Lane Introductions)
km∕h)	50' (15m)	15' (5m)
km∕h)	75' (23m)	20' (6m)
ו)	150' (46m)	30' (9m)

## All dimensions are in inches (millimeters) unless otherwise noted.

	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MARKINGS		(25BC-BR)I	MERCER	20	20
SH	. 2 OF 2		CONTRACT	NO. 6	8C76
CADD STD.	'80001-D4 FED. RC	AD DIST. NO. ILLINOIS FED.	AID PROJECT		