

092

03-08-2019 LETTING ITEM 092

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	1103CR	KANKAKEE	10	1
		ILLINOIS	CONTRACT NO. 66J59	

**INDEX OF SHEETS**

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
5. SCHEDULES
6. EXISTING CULVERT DETAILS
7. PROPOSED DETAILS
- 8 - 9. CLASS B PATCH DETAILS
10. DETAILS

**STANDARDS**

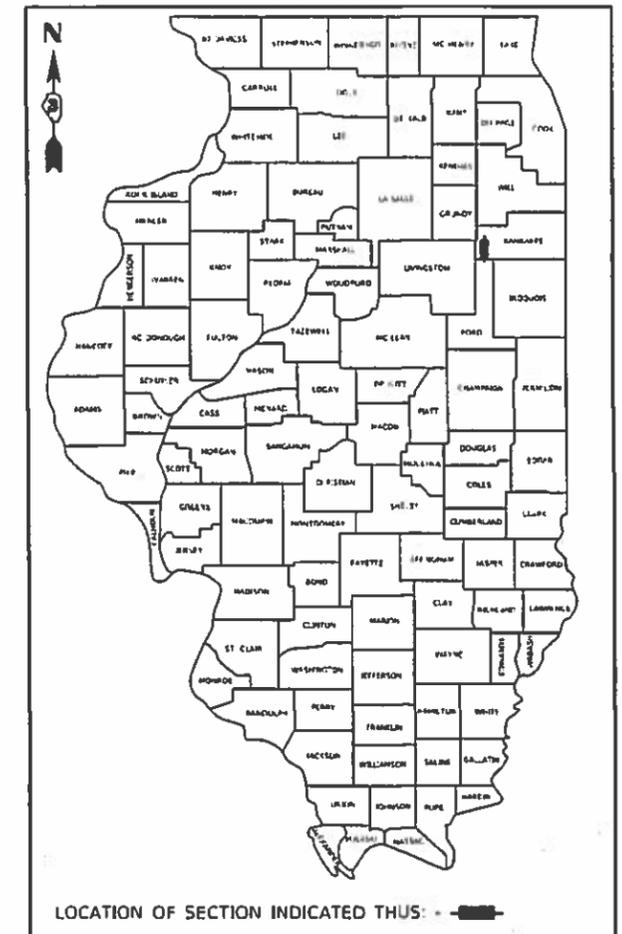
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-08	TRAFFIC CONTROL DEVICES

# PROPOSED HIGHWAY PLANS

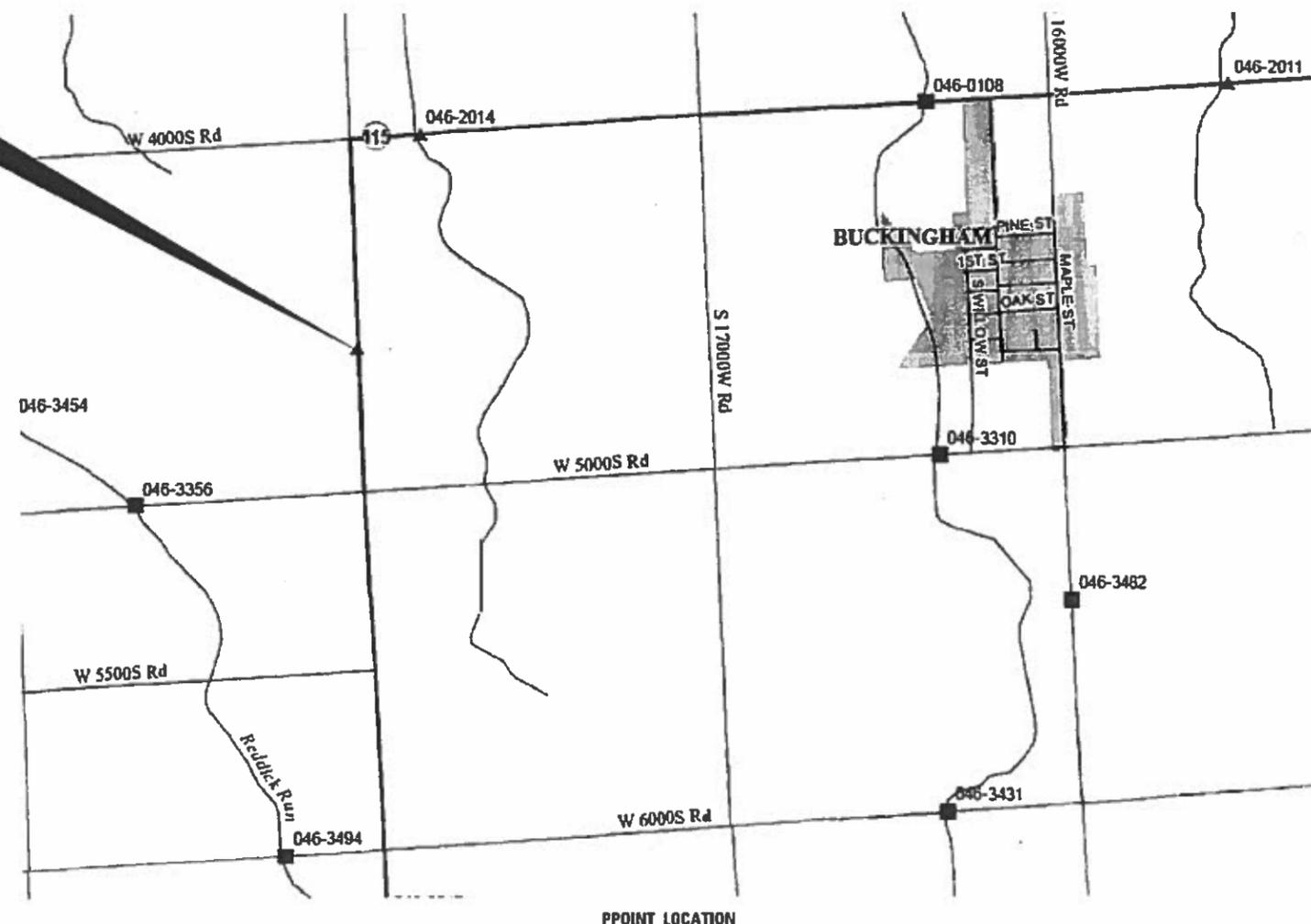
## F.A.P. ROUTE 796 (IL 115) SECTION (103)CR CULVERT REMOVAL & REPLACEMENT KANKAKEE COUNTY

C-93-037-19

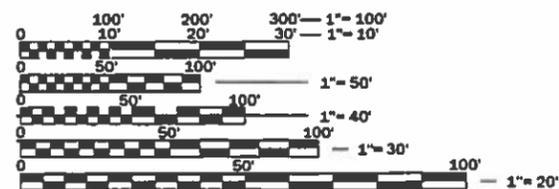
D-93-017-19



**PROJECT LOCATION**  
EXISTING 2' X 1.5' CONCRETE  
18" Ø CLAY PIPE WITH ENDSECTIONS  
PROPOSED RCCP ERS 24" W/ENDSECTIONS  
0.4 MILES NORTH OF 5000S RD.  
STA. 870+00



**FUNCTIONAL CLASSIFICATION**  
RURAL  
MAJOR COLLECTOR  
F.A.P. ROUTE 796 (IL 115)  
2017 ADT = 675  
P.V. 85.7% S.U. 4.4% M.U. 5.9%



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 JOE KANNEL P.E.  
UNIT CHIEF: RON WOODSHANK  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66J59

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 12-11-2018  
  
REGIONAL ENGINEER

Feb 1 2019  
  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 2019  
  
DIRECTOR OF HIGHWAY PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

PERMANENT SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES ( 100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
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**COMMITMENTS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: *Tom Beaulieu*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 12-11-18

EXAMINED BY: *ASB*  
DISTRICT CONSTRUCTION ENGINEER

*Michael A. Shot*  
DISTRICT MATERIALS ENGINEER

*Tom Hagan*  
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - EP	REVISED -
	PLOT DATE = 12/8/2018	DATE - 9/5/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(103)CR	KANKAKEE	10	2
CONTRACT NO. 66J59				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	
				100% STATE	
				PIPE CULVERT	
		0004		RURAL	
20400800	FURNISHED EXCAVATION	CU YD	4	4	
20800150	TRENCH BACKFILL	CU YD	3.2	3.2	
44201019	CLASS B PATCHES, TYPE II, 14 INCH	SQ YD	16	16	
44201299	DOWEL BARS 1 1/2"	EACH	40	40	
44213200	SAW CUTS	FOOT	81	81	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	10	10	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2	2	
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	32	32	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42	

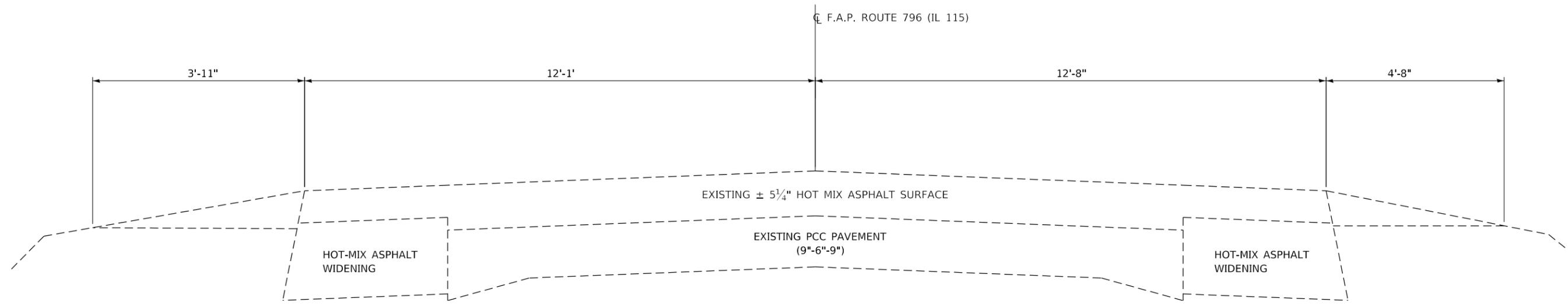
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	PLOT DATE = 12/6/2018	DATE - 9/5/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(103)CR	KANKAKEE	10	3
			CONTRACT NO. 66J59	
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION**

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/6/2018	DATE - 9/5/2018	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.		

**SCHEDULE - EXCAVATION**

LOCATION	FURNISHED EXCAVATION
	CU. YD.
LOCATION 1	
STA. 870+00 LT	1
STA. 870+00 RT	1
TOTAL	2

**SCHEDULE - TRENCH BACKFILL**

LOCATION	TRENCH BACKFILL
	CU. YD.
LOCATION 1	
STA. 870+00 LT	1.9
STA. 870+00 RT	1.9
TOTAL	3.8

**SCHEDULE - PATCHING**

LOCATION	CLASS B PATCH TYPE II 14"	DOWEL BARS 1 1/2"	SAW CUTS
	SQ. YD.	EACH	FOOT
STA. 870+00 LT	8	20	43.5
STA. 870+00 RT	8	20	37.5
TOTAL	16	40	81

**SCHEDULE - DRAINAGE**

LOCATION	PIPE CULVERT CLASS A TYPE 1 EQUIVALENT ROUND-SIZE 24"	PRECAST REINFORCED CONCRETE FLARED END SECTION ERS 24"
	FOOT	FOOT
STA. 870+00 LT	16	1
STA. 870+00 RT	16	1
TOTAL	32	2

**SCHEDULE - REMOVAL**

LOCATION	REMOVAL OF EXISTING STRUCTURES
	EACH
STA. 870+00	0.5
STA. 870+00	0.5
TOTAL	1

**SCHEDULE - AGGREGATE SHOULDERS**

LOCATION	AGGREGATE SHOULDERS TYPE B
	TON
STA. 870+00 LT	1
STA. 870+00 RT	1
TOTAL	2

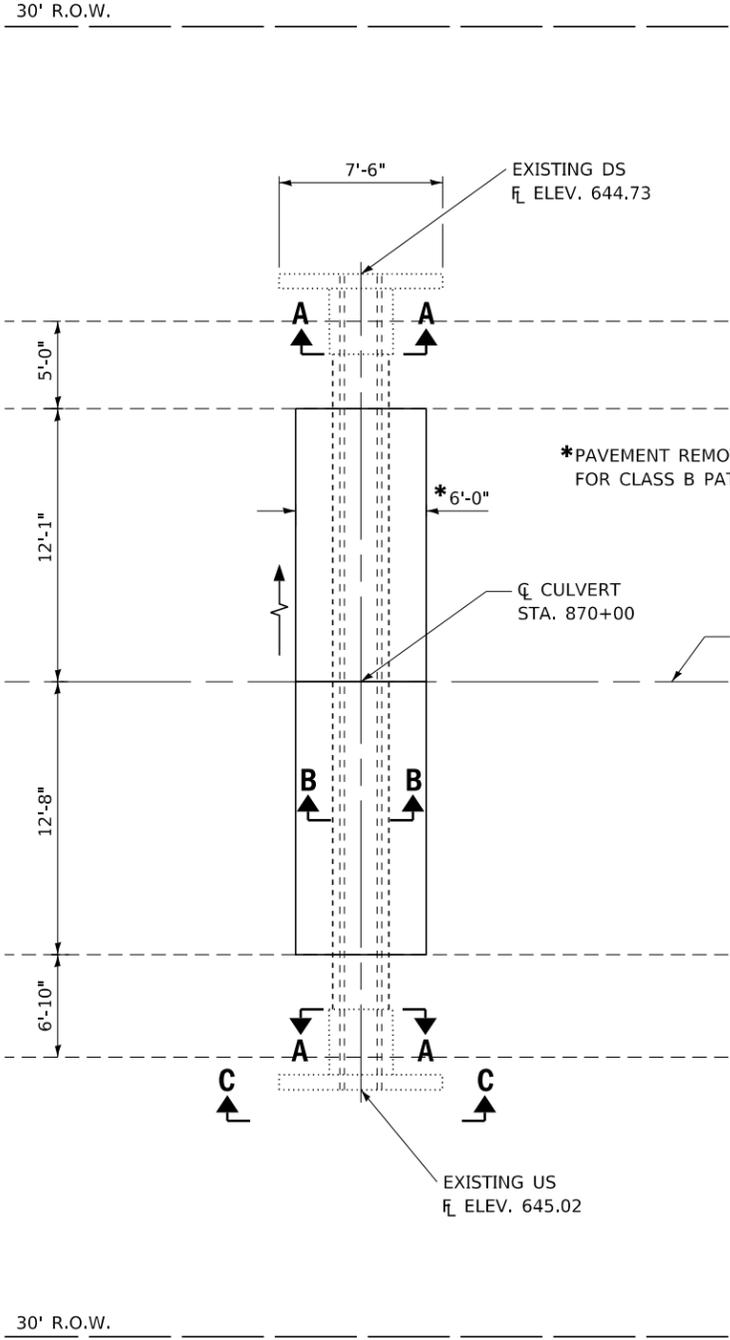
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

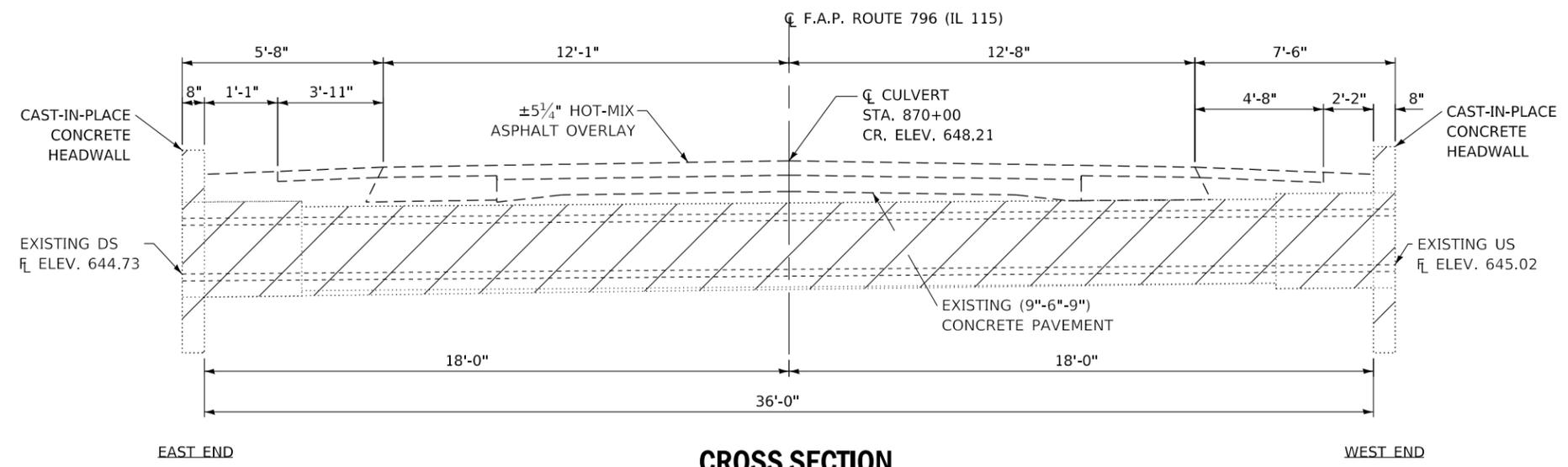
**SCHEDULES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(103)CR	KANKAKEE	10	5
			CONTRACT NO. 66J59	
ILLINOIS FED. AID PROJECT				



**PLAN**  
STA. 870+00

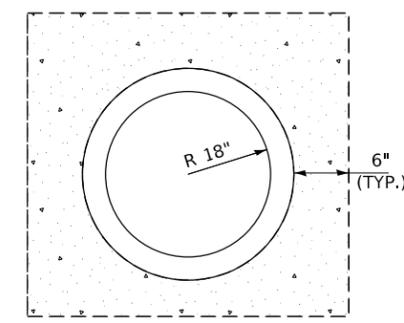


**CROSS SECTION**

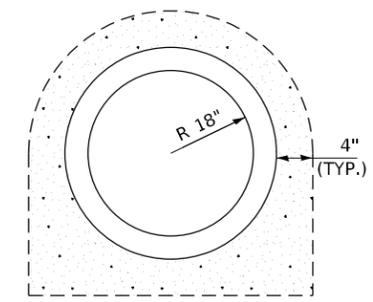
LOOKING SOUTH  
EXISTING 18" Ø CLAY PIPE CULVERT ENCASED IN REINFORCED CONCRETE WITH CAST-IN-PLACE REINFORCED CONCRETE HEADWALLS TO BE REMOVED

NOTE: EXISTING CULVERT HAS A ADVERSE GRADE

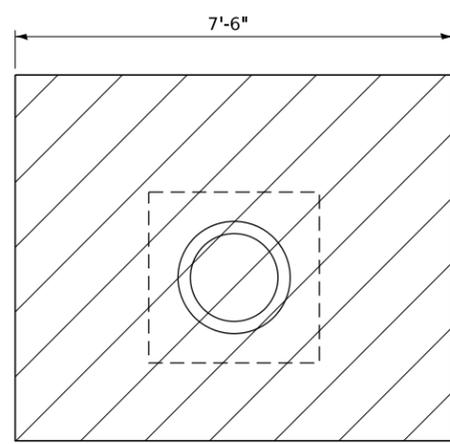
 **STRUCTURE REMOVAL**



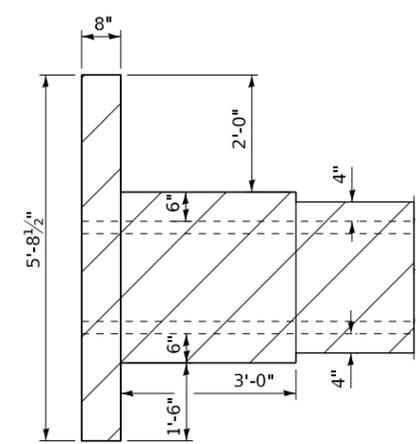
**SECTION A-A**



**SECTION B-B**



**VIEW C-C**  
HEADWALL



**END ELEVATION**  
HEADWALL

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING CULVERT DETAILS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 796	SECTION (103)CR	COUNTY KANKAKEE	TOTAL SHEETS 10	SHEET NO. 6
			CONTRACT NO. 66J59	
ILLINOIS FED. AID PROJECT				

BM - TOP OF BENT OVER REBAR ON TOP OF EAST HEADWALL ELEV. 647.03

CL FAP 796 (IL 115)

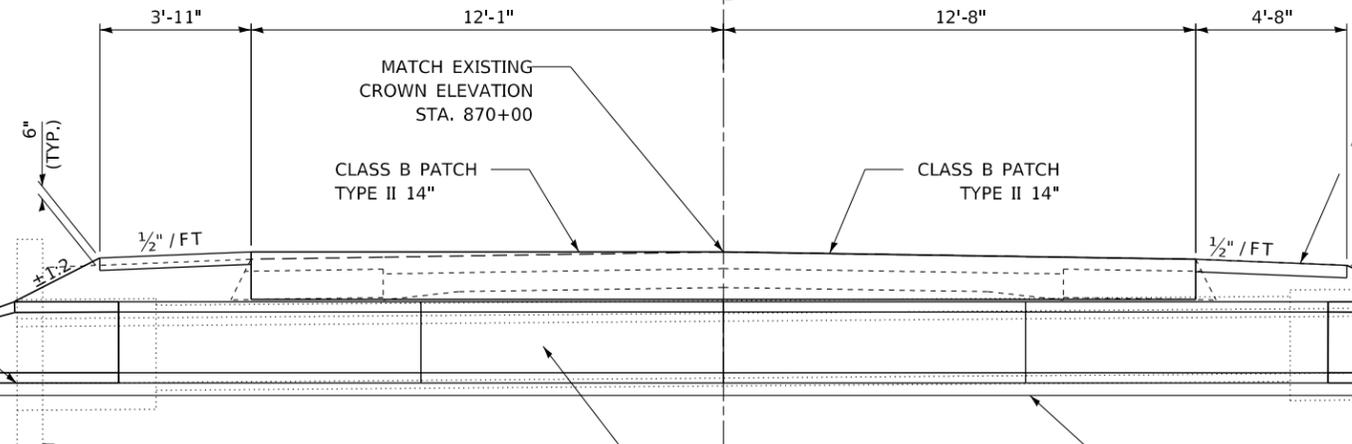
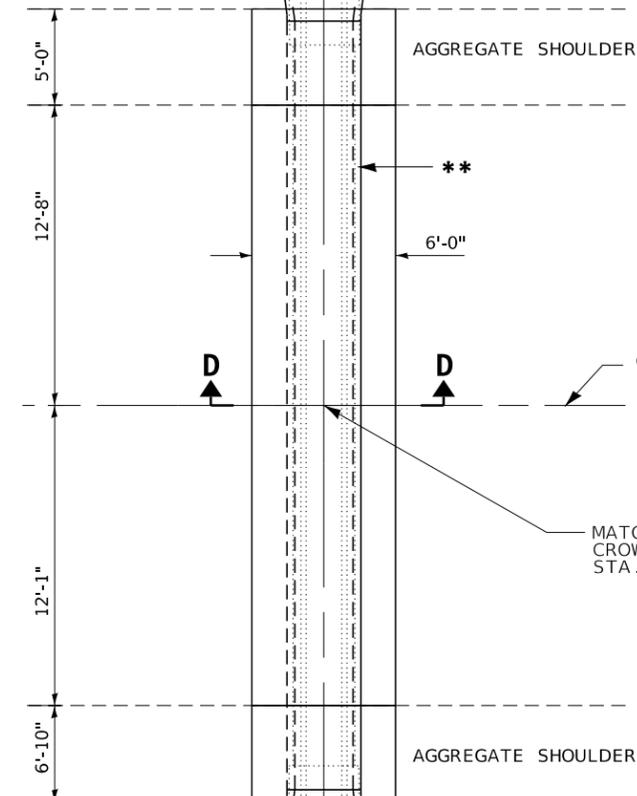


30' R.O.W.

PROPOSED US INVERT  
ELEV. 645.02  
EXISTING UP INVERT  
ELEV. 644.73

EXISTING DS  
INVERT ELEV. 644.73  
PROPOSED DS  
INVERT ELEV. 645.02

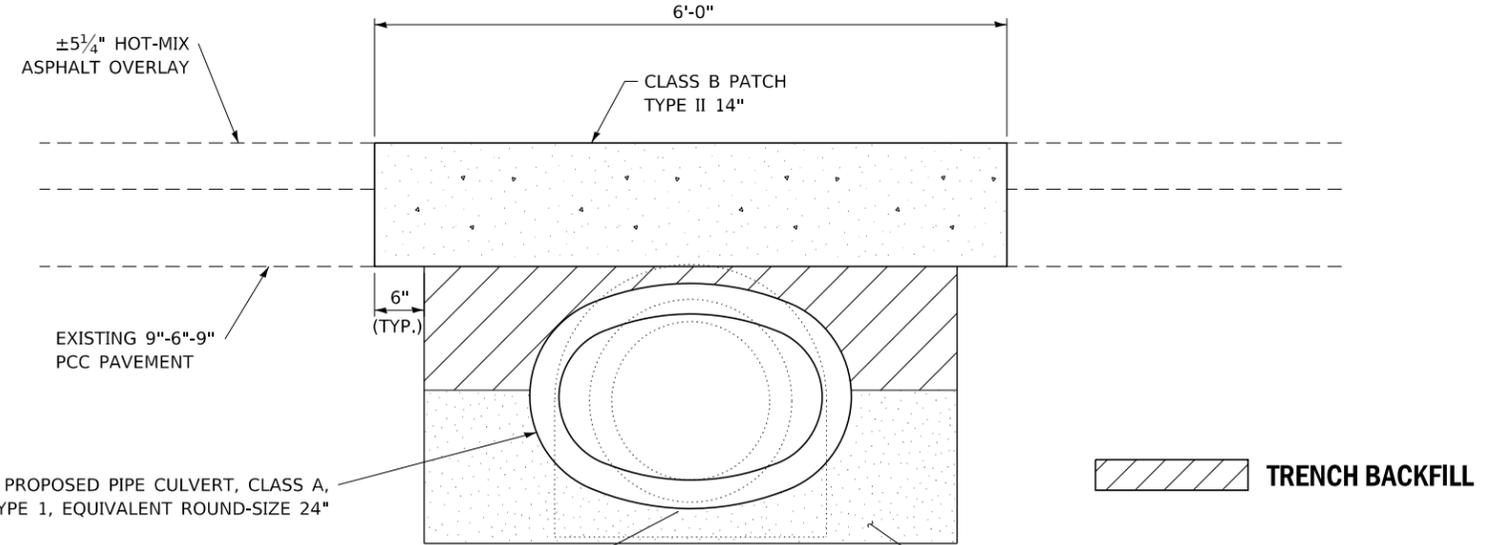
AGGREGATE SHOULDERS,  
TYPE B (TYP.)  
EXCAVATED MATERIAL OR  
EARTH EXCAVATION (TYP.)  
EXISTING DS  
INVERT ELEV. 645.02  
PROPOSED DS  
INVERT ELEV. 645.02



**CROSS SECTION**  
**STA. 99+90**  
LOOKING SOUTH

\*\* EXISTING - 38" - 18" Ø VITRIFIED CLAY PIPE ENCASED IN 4" CONCRETE SLEEVE WITH 3' OF EACH END ENCASED IN 6" CONCRETE SLEEVE AND CAST-IN-PLACE CONCRETE HEADWALLS.

PROPOSED - 32' - REINFORCED CONCRETE CULVERT PIPE 24" Ø EQUIVALENT ROUND SIZE WITH PRECAST CONCRETE END SECTIONS.



**SECTION D-D**

AGGREGATE BACKFILL  
ACCORDING TO  
SECTION 542.04(f) OF  
THE STANDARD  
SPECIFICATIONS

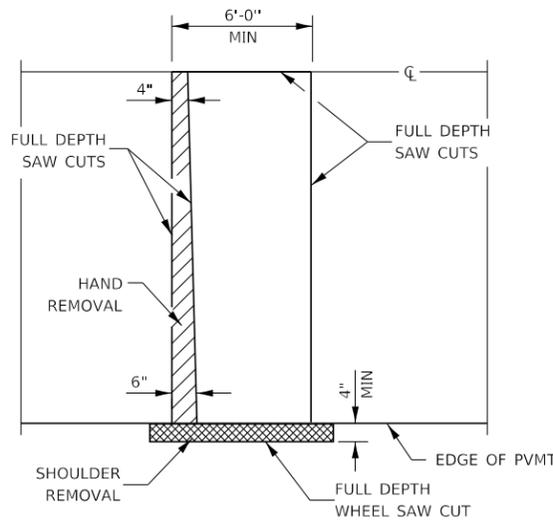
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED CULVERT DETAILS

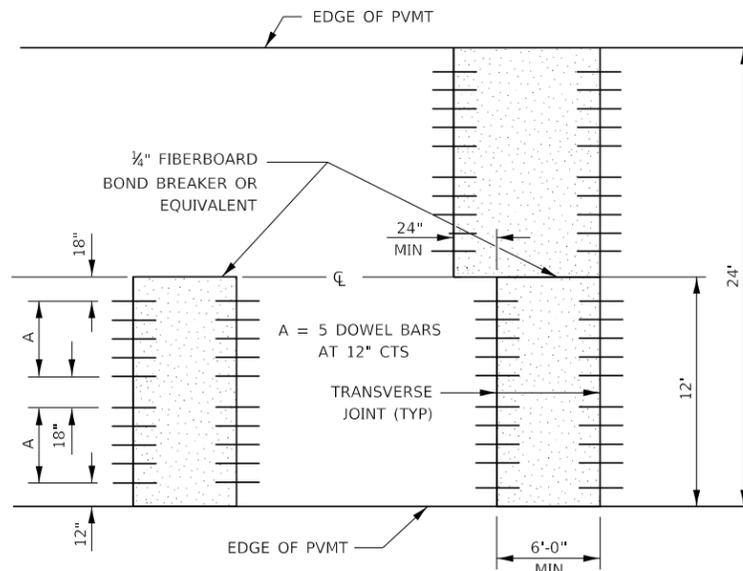
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(103)CR	KANKAKEE	10	7
CONTRACT NO. 66J59				
ILLINOIS FED. AID PROJECT				

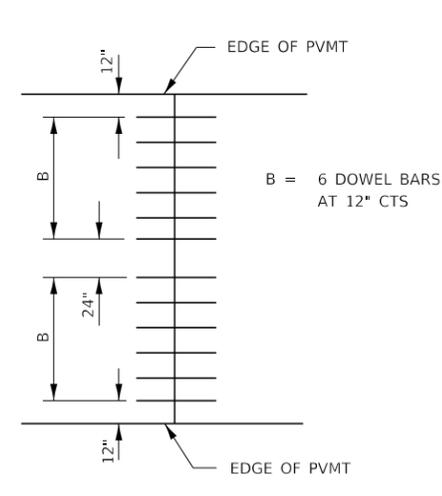


**PAVEMENT SAWING DETAIL**

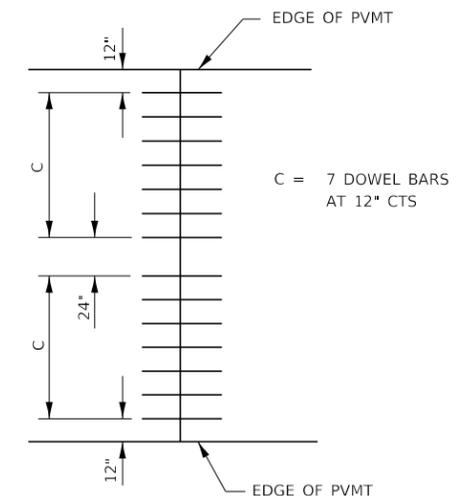
(HMA SHOULDER)



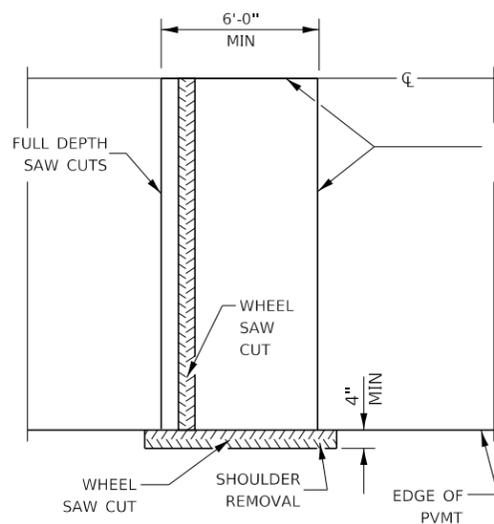
**12' WIDE LANES**



**14' WIDE RAMP**

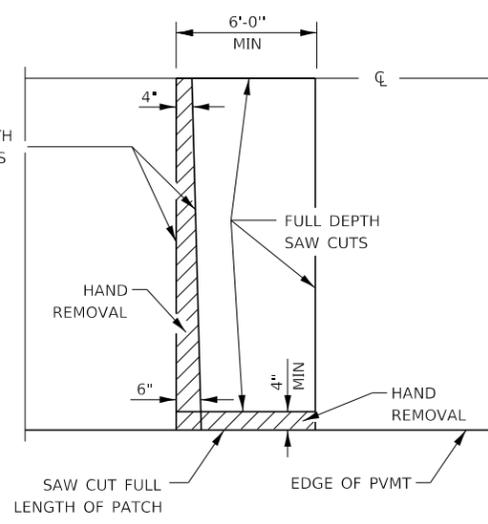


**16' WIDE RAMP**



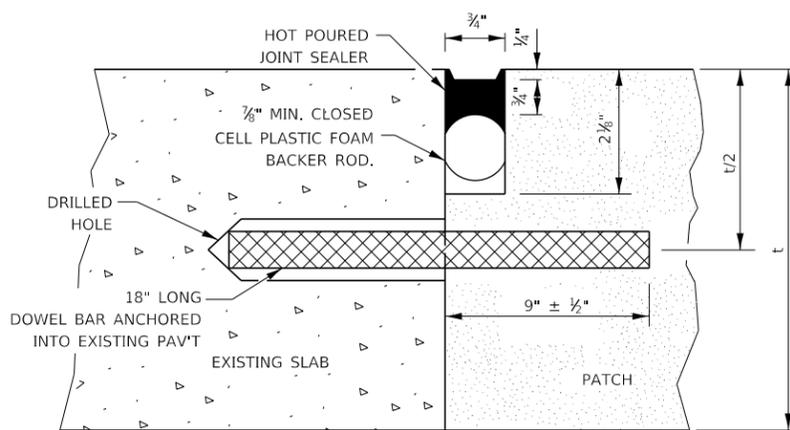
**ALTERNATE SAWING DETAIL**

(HMA SHOULDER)

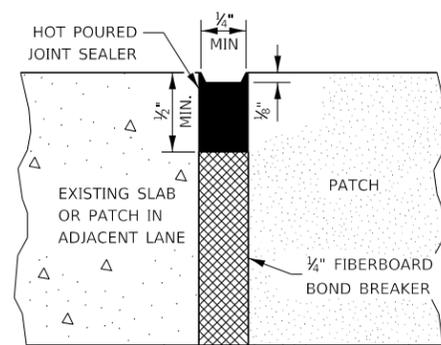


**PAVEMENT SAWING DETAIL**

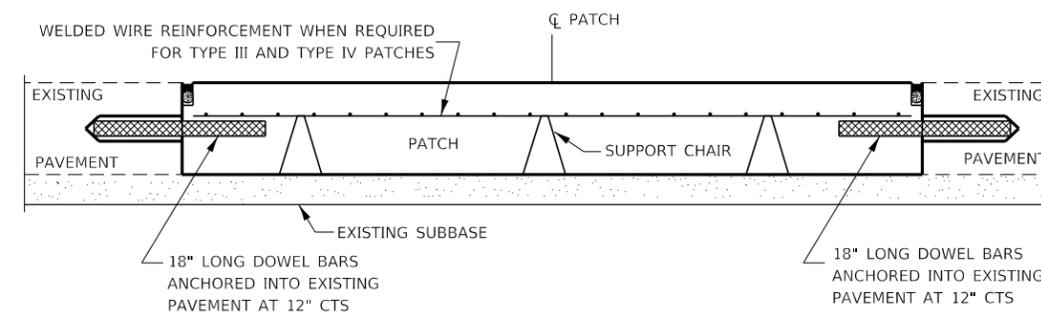
(PCC SHOULDER)



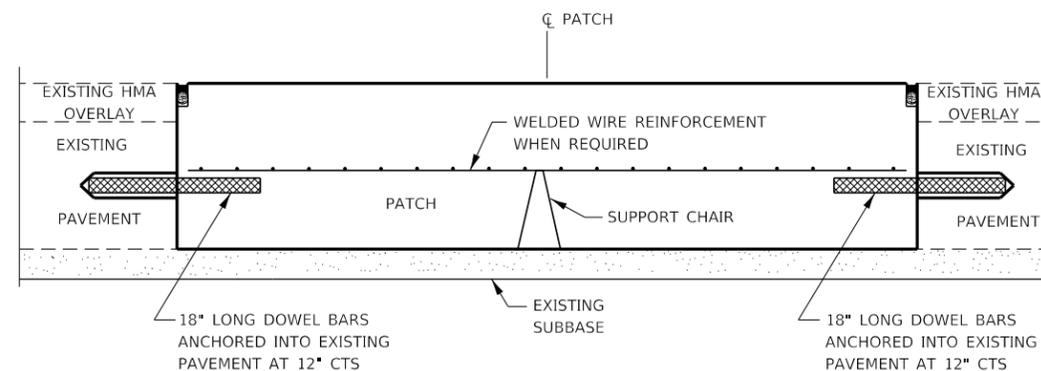
**TRANSVERSE JOINT**



**CENTERLINE JOINT**



**PATCHING WITHOUT HMA OVERLAY**

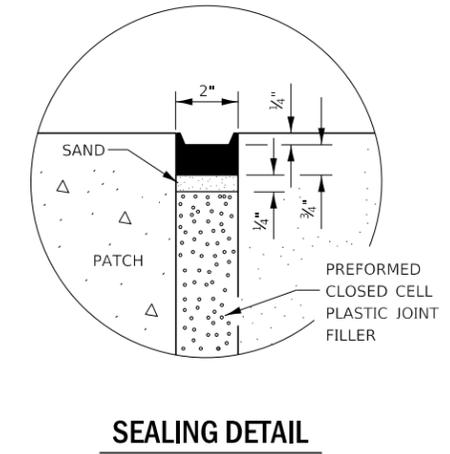
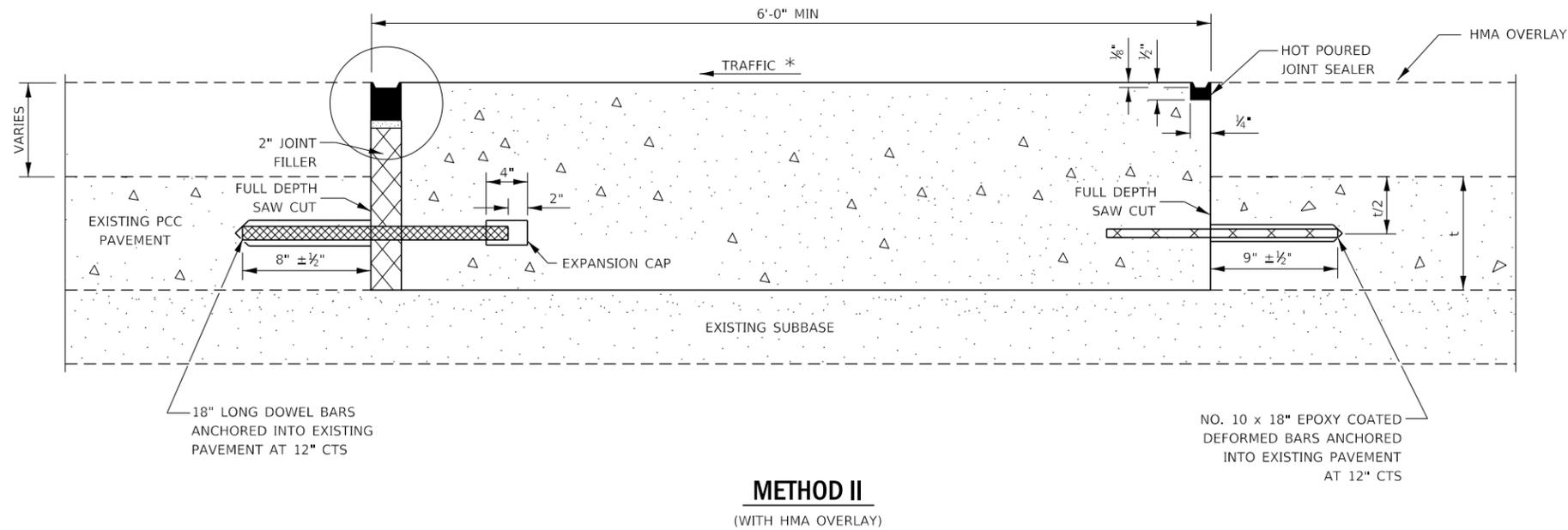
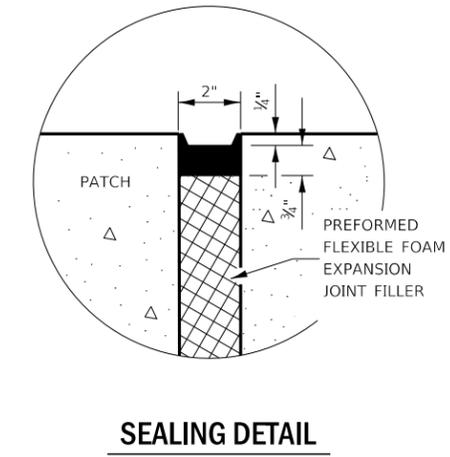
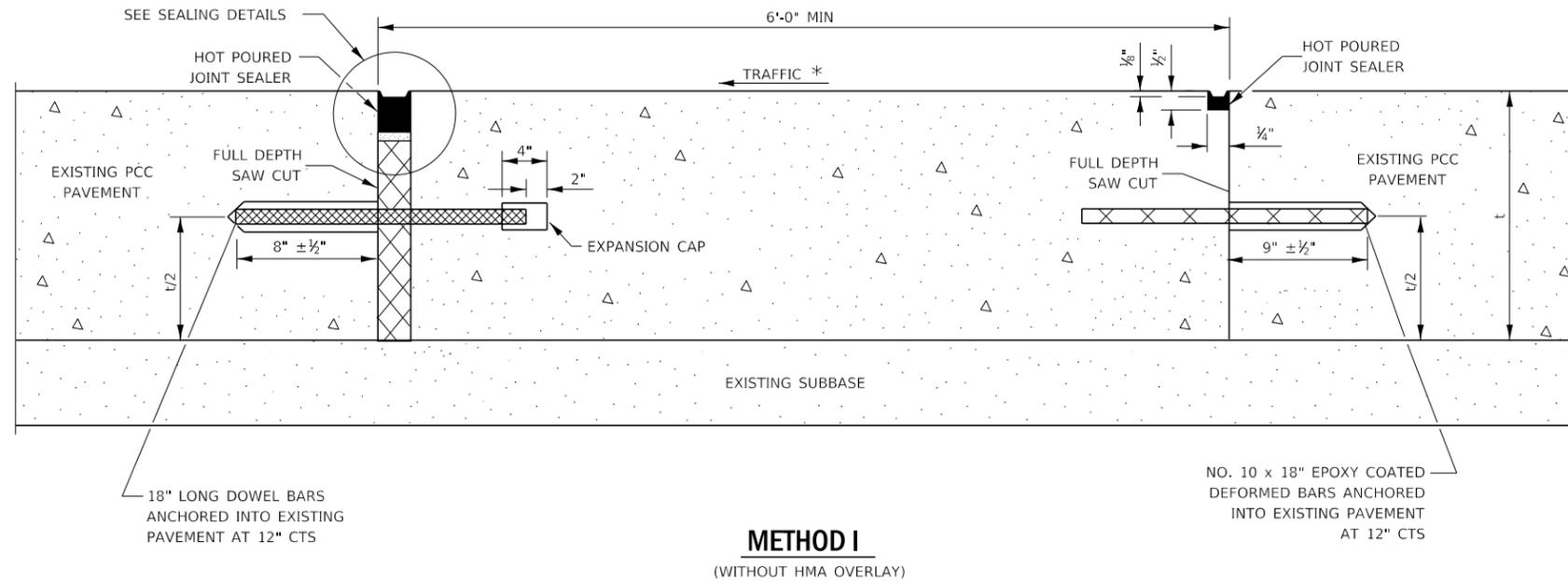


**PATCHING WITH HMA OVERLAY**

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
8" OR GREATER	1 1/2"	1 3/8"
7" THRU 7.99"	1 1/4"	1 3/8"
LESS THAN 7"	1"	1 1/8"

**GENERAL NOTES**

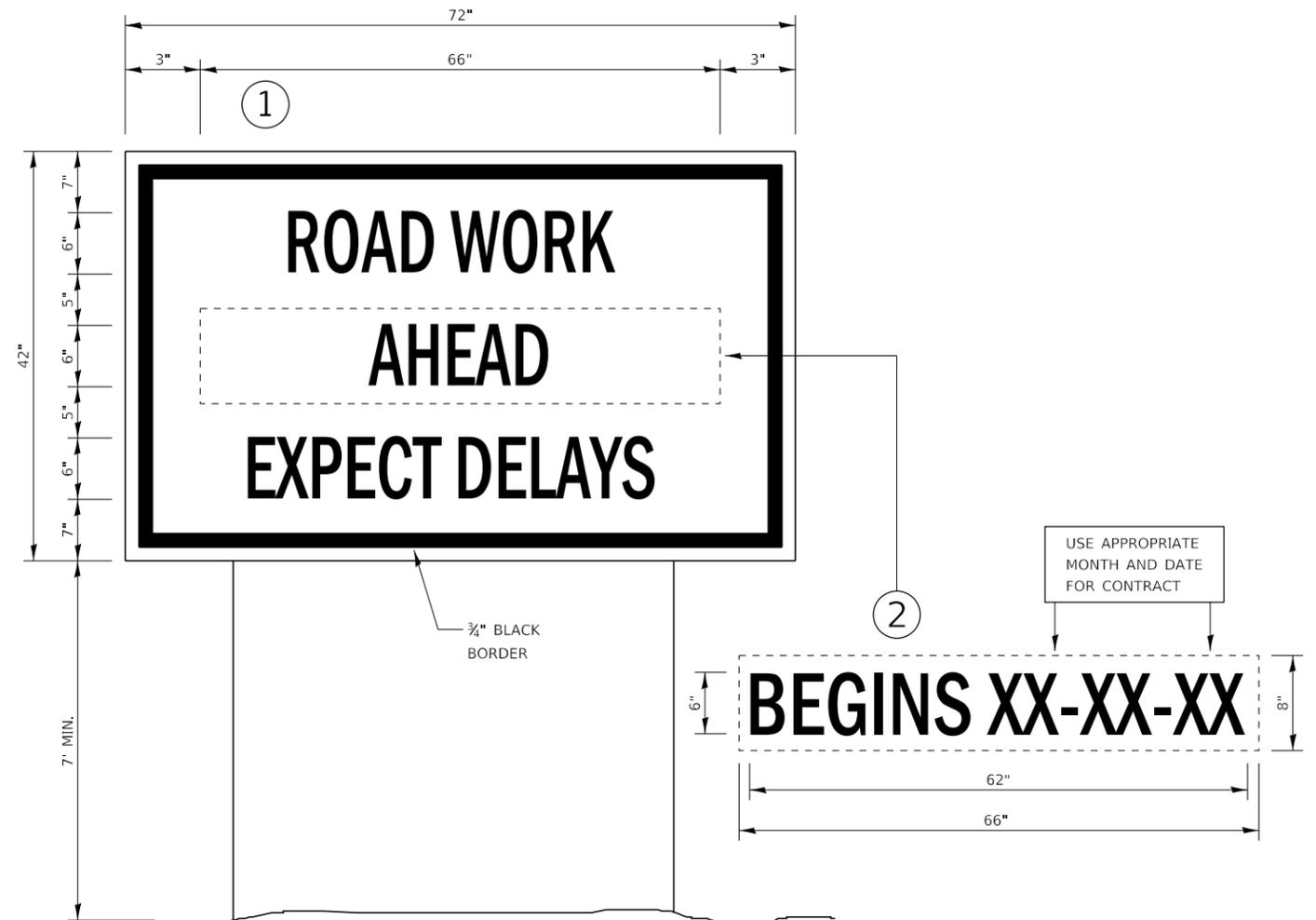
THE TRANSVERSE JOINTS FOR CLASS B PATCHES SHALL ALIGN WITH JOINTS OR CRACKS IN THE ADJACENT LANE WHENEVER POSSIBLE.



**NOTE**

\* WHEN RE-ESTABLISHING A TRANSVERSE EXPANSION JOINT ON A TWO-WAY ROAD, REVERSE THE ORIENTATION OF THE DOWEL BARS WITH RESPECT TO TRAFFIC FOR ONE OF THE PATCHES SUCH THAT THE JOINT WILL BE CONTINUOUS ACROSS BOTH LANES.

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED CULVERT DETAILS STA. 870+00</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366J59\CADData\66J59-cover.dgn		DRAWN - RW	REVISED -				796	(103)CR	KANKAKEE	10	9
Default	PLOT SCALE = 100,0000 / in.	CHECKED - EP	REVISED -		CONTRACT NO. 66J59						
	PLOT DATE = 12/6/2018	DATE - 9/5/2018	REVISED -		SCALE:	SHEET 2	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -
pw:\IL084EB\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\1366\J59\CADDData\66J59-cover.dgn		DRAWN - RW	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(103)CR	KANKAKEE	10	10
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