STATE OF ILLINOIS 01-15-2016 LETTING ITEM 013 DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS **PROPOSED** HIGHWAY PLANS FOR INDEX OF SHEETS, SEE SHEET NO. 2 F.A.P. ROUTE 760 (IL 48) FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6 **SECTION 124CR** PROJECT ACF-0760 (017)
CULVERT REPLACEMENT EXISTING SN 020-8033 AT STA. 122+60.50 **DEWITT COUNTY** REPLACED WITH SN 020-8045 AT STA. 122+60.50 SINGLE 12' x 2' PCBC WITH PRE-CAST END SECTIONS 1.3 MIN OF ILL 10 AT WELDON & S OF WELDON C-95-011-09 EXISTING SN 020-8034 AT STA, 1163 + 25.30 REPLACED WITH SN 020-8046 AT STA. 1163 + 25.30 SINGLE 12'X 3' PCBC WITH PRE-CAST END SECTIONS 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. **DESIGN DESIGNATION CURRENT TRAFFIC DATA** SN 020-8033 1000 (2013) SN 092-8034 1450 (2013) J,U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 NIXON TOWNSHIP GROSS LENGTH & NET LENGTH OF SN 020-8045 = 22,00 FT. = 0.004 MILE PROJECT ENGINEER: NANCY FASIG (217-465-4181) PROJECT MANAGER: BRENT CEARLOCK GROSS LENGTH & NET LENGTH OF SN 020-8046 = 30.00 FT. = 0.006 MILE GROSS LENGTH = 52.00 FT. = 0.010 MILE CONTRACT NO. 70754 NET LENGTH = 52.00 FT. = 0.010 MILE

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D-95-011-09



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 8 20 15

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DOLL J. 20 15

ENGINEER OF DESIGN AND ENVIRONMENT AT 20 15

OCTOBER 15 AND CONTROL OF AND

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS / HIGHWAY STANDARDS
3	GENERAL NOTES
4-6	SUMMARY OF QUANTITIES
7-10	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
11	TIE POINTS
12-14	SCHEDULE OF QUANTITIES
15	PLAN AND PROFILE SHEET- SN 020-8045
16-22	DETAILS OF SN 020-8045
23	PLAN AND PROFILE SHEET- SN 020-8046
24-30	DETAILS OF SN 020-8046
31	FIELD TILE SYSTEMS (TREATMENT OF EXISTING)
32-35	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)
36-41	CROSS SECTION SHEETS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATES FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630106-01	LONG - SPAN GUARDRAIL OVER CULVERT
630301-06	SHOULDER WIDENNIG FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-02	PERMANENT SURVEY MARKERS
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
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH
701206-03	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS 2 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-04	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

	FILE NAME #	USER NAME = cearlockbm	DESIGNED - BMC	REVISED -
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ı		PLOT SCALE = 48.8888 1/ in.	CHECKED -	REVISED -
į		PLOT DATE = 10/6/2015	DATE - 02-07-11	REVISED -

	INDEX	OF	SHE	ETS/HIGH	WAY	STAN	DARD	S
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_	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHE
	760	124CR	TTIWEG	41	2
			CONTRACT	NO. 7	075
		100,000,000,000		~~~~~~	

ILLINDIS FED. ATO PROJECT

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.~105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.37

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTLILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-250C

SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED THE AREAS ASSOCIATED WITH BOX CULVERT REPLACEMENTS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N.-280

TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N.-540

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-550

BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-Z0038

AN ALLIMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

COMMITMENTS

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

LOCAL DRAINAGE DISTRICT CONTACT INFORMATION: FRIENDS CREEK DRAINAGE DISTRICT P.O.BOX 191 WELDON, IL 61882 MR. LARRY HELTON PHONE: (217)-739-2241 OR

SCALE: N/A

MS. CHRIS HERMANN PHONE: (217) 369-8558

FILE NAME :	USER NAME = cearlookbm	DESIGNED - BMC	REVISED -
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	PLOT SCALE = 48.2220 '/ in.	CHECKED -	REVISED -
	PLGT DATE = 18/6/2015	DATE - 02-07-11	REVISED -

STATE OF ILLINOIS									
DEPARTMENT	0F	TRANSPORTATION							

	CENEDAL MOTEC							F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.							
	GENERAL NOTES						760	124CR	DEWITT	4)	3								
		_		_	_			<u>, .</u>		 		_		 			CONTRACT	NO.	70754
EET	NO.	1	QF	1	SH	EETS		:	STA.	 	. 1	0	STA,	 		ILLINOIS FED. A	O PROJECT		

LOCATION OF WORK:

FAP 760 (IL 48)

DEWITT COUNTY

SN 020-8045 & 020-8046

RURAL 2-LANE

FUNDING BREAKOUT:

80% FEDERAL

20% STATE

CONSTRUCTION TYPE CODE:

0040

ITEM CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
		THE WILLIAM AMES	
20200100	EARTH EXCAVATION	CU YD	232. 0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	93. 0
20800150	TRENCH BACKFILL	CU YD	35.0
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100.0
25000210	SEEDING, CLASS 2A	ACRE	0. 75
25000350	SEEDING, CLASS 7	ACRE	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68, 0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68. 0
25100115	MULCH, METHOD 2	ACRE	0. 75
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75. 0
28000305	TEMPORARY DITCH CHECKS	FOOT	80.0
28000400	PERIMETER EROSION BARRIER	FOOT	100.0
28000500	INLET AND PIPE PROTECTION	EACH	4.0

* SPECIALTY ITEM

FILE NAME :	USER NAME = pearlookbm	DESIGNED - BMC	REVISED -			F.A.P. SECTION C	COUNTY TOTAL SHEET
pw1/37L084E810[NTEG.1111no18.gov1941807/06	umental1861 Offices\District \$\Projects\05i	PRANNOBEA (BesigBNG 70754-she-SDD,dgn	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	760 124CR [DEWITT 41 4
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			ONTRACT NO. 70754
	PLOT DATE < 10/6/2015	DATE - 02-07-11	REVISED -		SCALE: N/A SHEET NO. 1 OF 3 SHEETS STA TO STA	ILLINOIS FED. AID PRO	ROJECT

LOCATION OF WORK:

FAP 760 (IL 48)

DEWITT COUNTY

SN 020-8045 & 020-8046

RURAL 2-LANE

FUNDING BREAKOUT:

80% FEDERAL

20% STATE

CONSTRUCTION TYPE CODE:

0040

28100201	STONE RIPRAP, CLASS A1	TON	155.0
and season and the se			
44201335	CLASS C PATCHES, TYPE IV. 8 INCH	SQ YD	148.0
44213100	PAVEMENT FABRIC	SO YD	148.0
44017204	TIC DADO 7/AU	5.01	
44213204	TIE BARS 3/4"	EACH	26.0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	356, 0
50100700			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0
51500100	NAME PLATES	EACH	2.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2, 0
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2.0
54011202	PRECAST CONCRETE BOX CULVERTS 12' X 2'	FOOT	35.0
54011203	PRECAST CONCRETE BOX CULVERTS 12' X 3'	FOOT	35.0
55100500	STORM SEWER REMOVAL 12"	FOOT	70.0
60500050	REMOVING CATCH BASINS	EACH	1.0

* SPECIALTY ITEM

FILE NAME =	USER NAME = cearlackbm	DESIGNED - BMC	REVISED -				F.A.P.	SECTION	COUNTY	TOTAL	SHEET
pm//11484E8(0(N7E0.1)};nata.2oviP¥(00)'		7870RAWW0ata\0011gBME70754-sht-800.dgn	REVISED ~	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	ŀ	760	124CR	DEWITT	41	5
	PLOT SCALE = 40.0000 '/ in.	CHECKED - 02-07-11	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	r No.	0754
	PLG: GARE * 10/6/2015	UATE - 02-07-11	HEA12FD -		SCALE: N/A SHEET NO. 2 OF 3 SHEETS STA YO S	TA, [ILLINDIS FED. AT	PROJECT		

LOCATION OF WORK:

FAP 760 (IL 48)

DEWITT COUNTY

SN 020-8045 & 020-8046

RURAL 2-LANE

FUNDING BREAKOUT:

80% FEDERAL

20% STATE

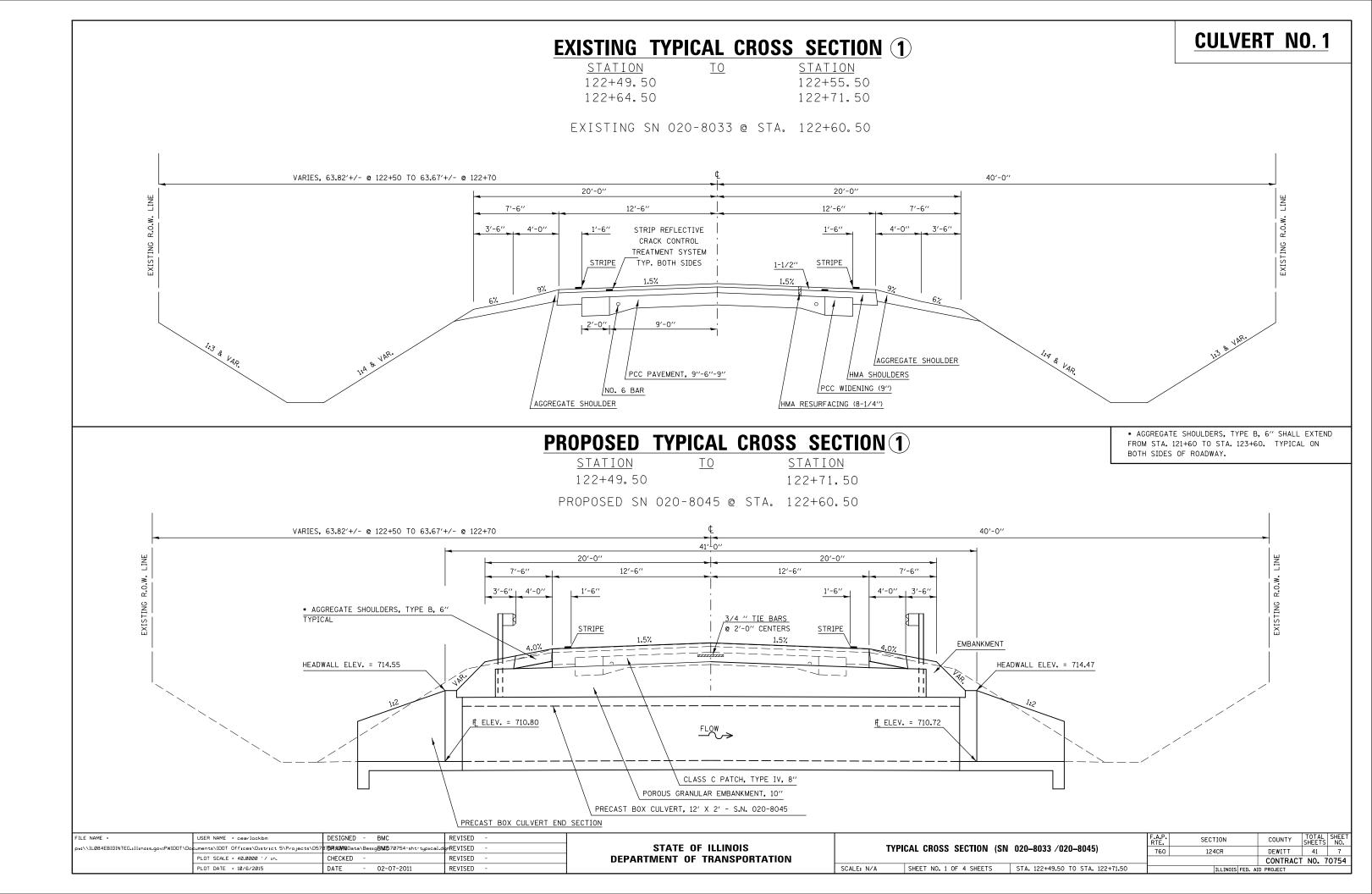
CONSTRUCTION TYPE CODE:

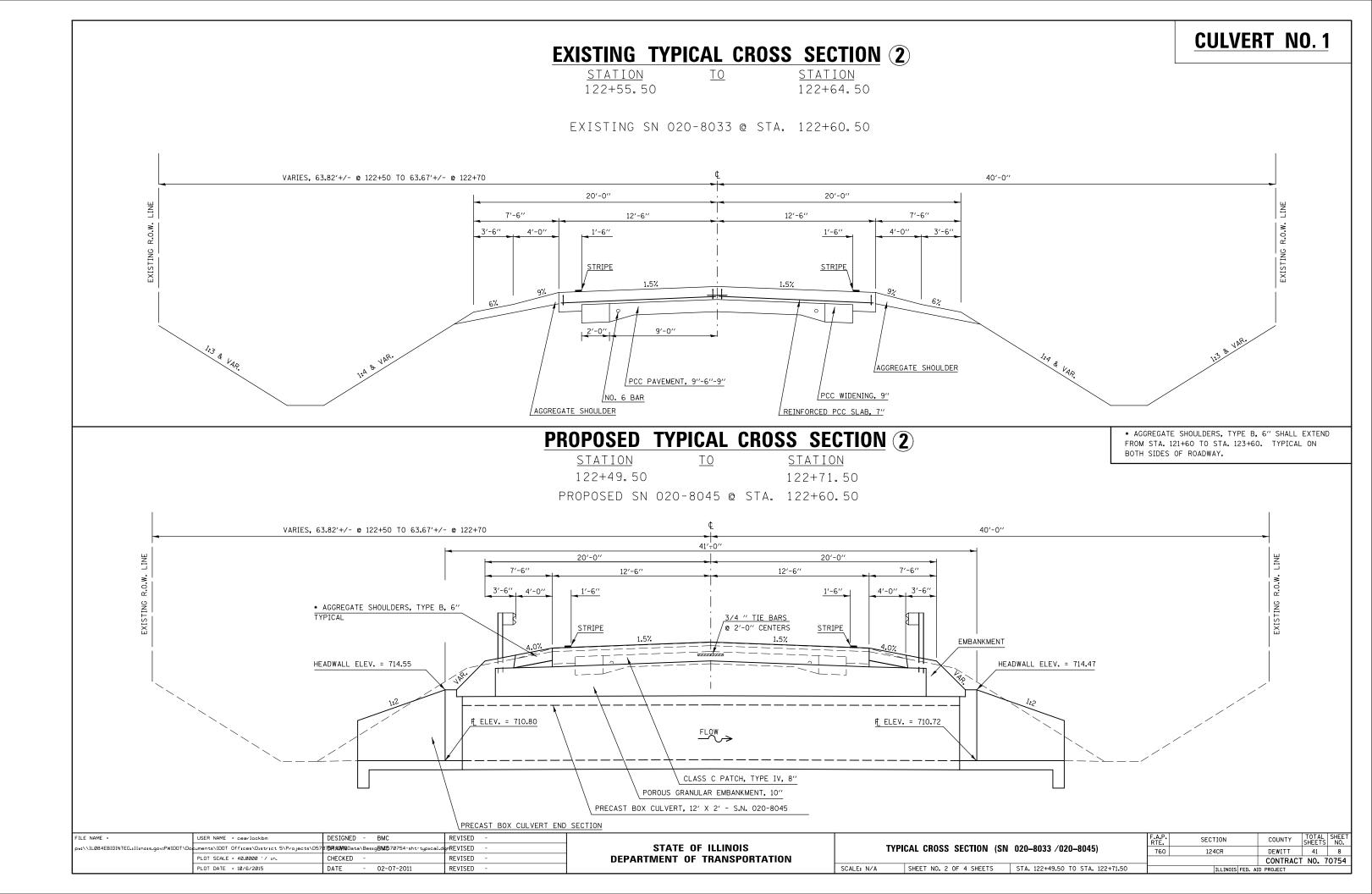
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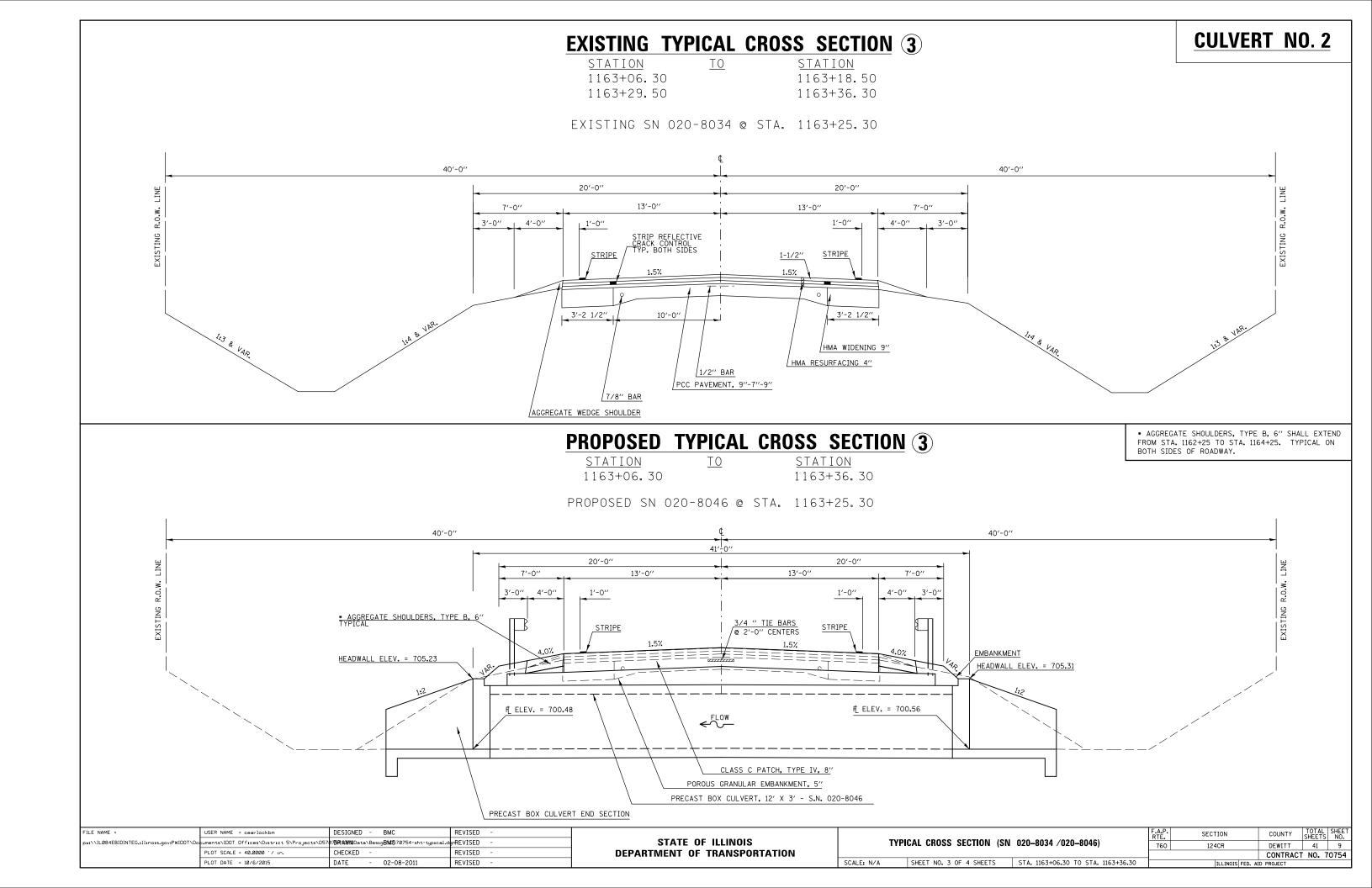
	61101020	STORM SEWER PROTECTED, CLASS A, 18"	FOOT	94.0
	61133300	FIELD TILE JUNCTION VAULTS, 4' DIA.	EACH	4.0
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200. 0
*	63000360	LONG-SPAN GUARDRAILOVER CULVERT, 18 FT 9IN SPAN	FOOT	300. 0
*	63100167	TRAFFIC TERMINAL TYPE 1, (SPECIAL) TANGENT	EACH	8. 0
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	2.0
	67100100	MOBILIZATION	L SUM	1.0
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
	70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.0
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	148.0
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16.0
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8.0
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	20.0
	Z0038700	PERMANENT BENCH MARKS	EACH	2, 0

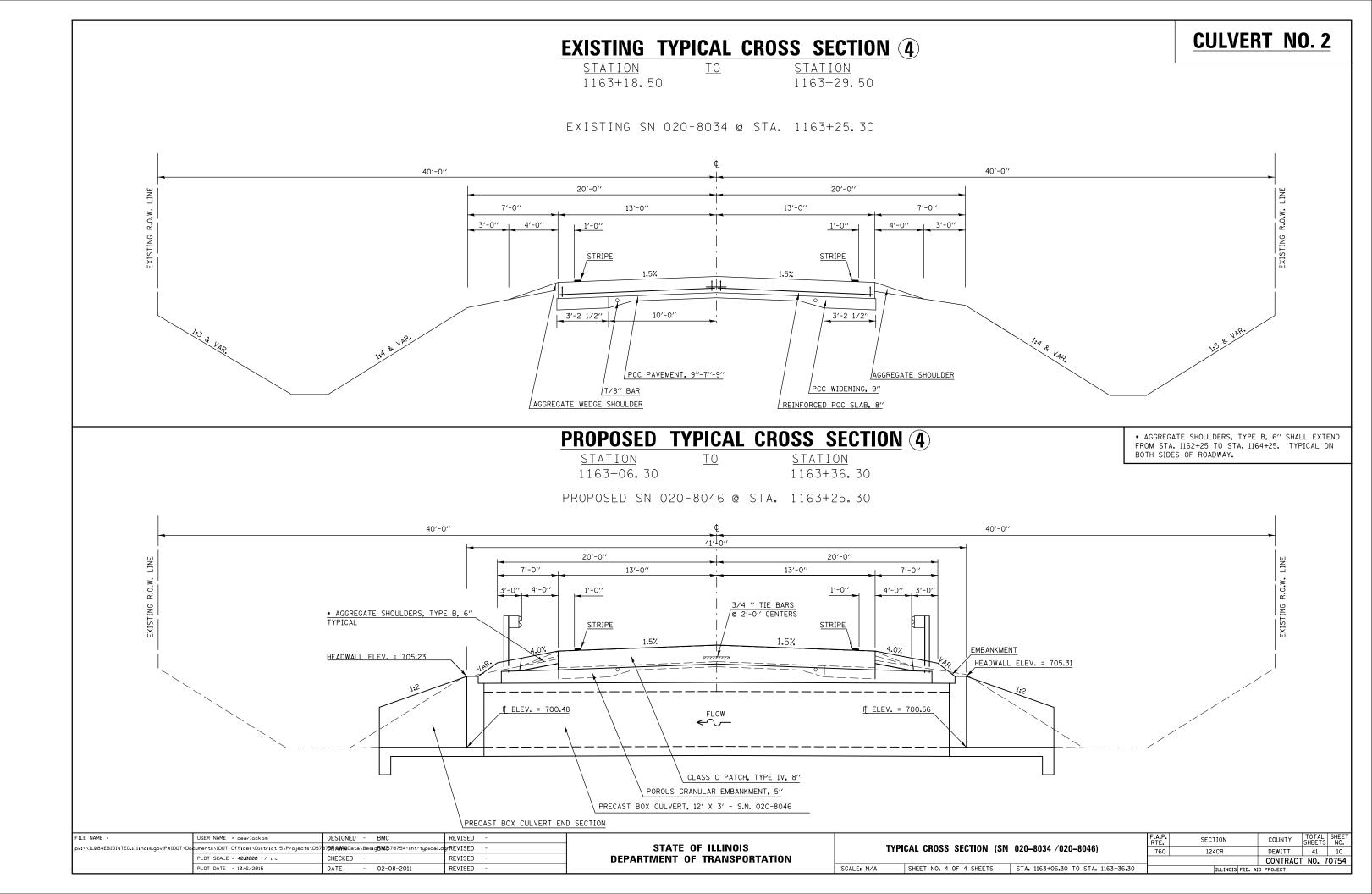
* SPECIALTY ITEM

FILE NAME :	USER NAME = operlockism	DESIGNED - BMC	REVISEO -				· ·· · · · · · · · · · · · · · · · · ·		F,A.P.	SECTION	COUNTY	TOTAL SHEET
p=1/\10884E8I0INTEG.11\1no1#.goviP¥I00T\Do	cuments \1007 Offices \District 5\Projects \057	78RAMMOnto\DesigBMB78784-sht-S00.dgn	REVISED -	STATE OF ILLINOIS	Marie Carlo	SUMMARY OF	QUANTITIES		760	12408	DEWITT	AI 6
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT	T NO. 70754
	PLOT DATE = 10/6/2015	02-07-11	REVISED -		SCALE: N/A	SHEET NO. 3 OF 3 SHEETS	STA	TO STA		ILLINOIS FEO. A	AND PROJECT	

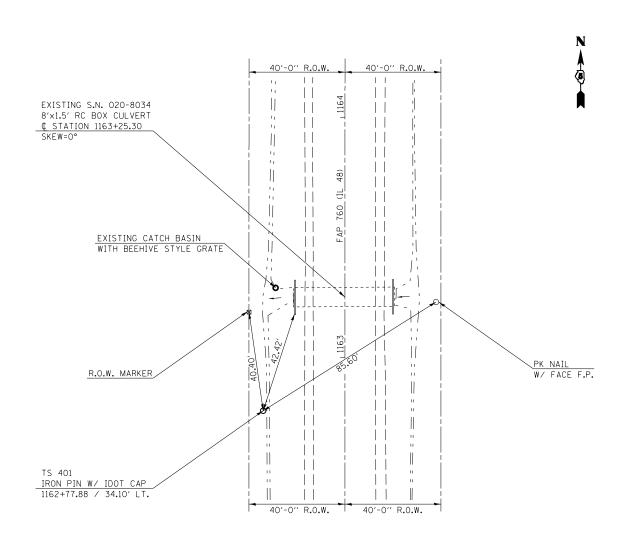








TS 401 (SN 020-8034) - CULVERT NO. 2 STA. 1162 + 77.88, 34.10' LT.



NOTE: NO TIE POINTS EXIST WITHIN A CLOSE PROXIMITY OF EXIST. S.N. 020-8033 (CULVERT NO. 1)

FILE	E NAME =	USER NAME = cearlockbm	DESIGNED - B	ВМС	REVISED -			TIE POINTS – CUI	VFRT NO 2	F.A.P.	SECTION	COUNTY	TOTAL SHEET
bw:/	\\IL084EBIDINTEG.illinois.gov:PWIDOT\Do	ouments\IDOT Offices\District 5\Projects\D5	7 075RXWAW Data\Besig E	BM05 70754-sht-details.d	rREVISED -	STATE OF ILLINOIS		EX. SN 020-		760	124CR	DEWITT	41 11
		PLOT SCALE = 40.0000 '/ in.	CHECKED -		REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	T NO. 70754
		PLOT DATE = 10/6/2015	DATE - 1	10-14-10	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA TO STA		ILLINOIS FED. A	ID PROJECT	

SCHEDULE OF QUANTITIES

28000305 TEMPORARY DITCH CHECKS SN 020-804 1162+75 LT 10.0 1162+75 RT 10.0 EARTHWORK BALANCE 1163+00 LT 10.0 WASTE (+) OR SHORTAGE (-) 1163+00 RT 10.0 (CU YD) 1163+50 LT 10.0 RT 42.3 1163+50 10.0 1163+75 LT 14.5 10.0 1163+75 RT 21.0 10.0 22.3 TOTAL = 80.0 28000400 PERIMETER EROSION BARRIER 100.0 LOCATION STATION TO STATION 100.0 LENGTH (FT) SN 020-8045 122+35.50 122+85.50 RT 50.0

1163+50.00 LT ____

TOTAL =

50.0

100.0

EARTHWORK BALANCE = EARTH EXCAVATION X ADJUSTMENT FOR SHRINKAGE (0.75) - EMBANKMENT

EARTH EXCAVATION

EMBANKMENT ADJUSTED

FOR SHRINKAGE (25%)

(CU YD)

65.3

40.5

30.0

38.3

174.0

174.0

EMBANKMENT

(CU YD)

23.0

26.0

9.0

16.0

74.0

74.0

EARTH EXCAVATION = 232.0 CUBIC YARDS

124+00.00

124+00.00

1165+00.00

1165+00.00

SIDE STATION TO STATION

LT 121+00.00

LT 1162+00.00

RT 1162+00.00

121+00.00

STRUCTURE EXCAVATION FROM SN 020-8045 AND SN 020-8046 IS UNSUITABLE MATERIAL FOR EMBANKMENT

TOTAL = 232.0

USE = 232.0

20200100

EARTH

EXCAVATION

(CU YD)

87.0

54.0

40.0

51.0

20700220 POROUS GRANULAR EMBANKMENT

<u>LOCATION</u>		<u>VOLUME (CU YD)</u>
SN 020-8045		46.9
SN 020-8046		45.8
	TOTAL =	92.7

USE =

20800150 TRENCH BACKFILL

LOCATION	<u>STATION</u>	VOLUME (CU YD/FT)	TRENCH LENGTH	VOLUME (CU YD)
SN 020-8046	1163+25.00	0.902	38.0	34.3
			TOTAL =	34.3
			IISF =	35 O

93.0

21301052 EXPLORATION TRENCH 52" DEPTH

LOCATION	SIDE	STATION	IO	STATION	LENGTH (FT)
SN 020-8046	LT	1163+00.00		1163+50.00	50.0
	RT	1163+00.00		1163+50.00	50.0

TOTAL = 100.0

LOCATION SN 020-8045	25000210 SEEDING CLASS 2A (ACRE) 0.50	25000350 SEEDING CLASS 7 (ACRE) 0.50	25000400 NITROGEN FERTILIZER NUTRIENT (POUND) 45.0	25000500 PHOSPHORUS FERTILIZER NUTRIENT (POUND) 45.0	25000600 POTASSIUM FERTILIZER NUTRIENT (POUND) 45.0	25100115 MULCH METHOD 2 (ACRE) 0.50	28000250 TEMPORARY EROSION CONTROL SEEDING (POUND) 50.0
SN 020-8046	0.25	0.25	22.5	22.5	22.5	0.25	25.0
TOTAL =	0.75	0.75	67.5	67 . 5	67 . 5	0.75	75.0
USE =	0.75	0.75	68.0	68.0	68.0	0.75	75.00

28000500 INLET & PIPE PROTECTION

SN 020-8046 1163+00.00

LOCATION	<u>STATION</u>	<u>0/S</u>	<u>EACH</u>
SN 020-8046	1163+11.00	35′ LT	1.0
	1163+11.00	35′ RT	1.0
	1163+23.00	35′ LT	1.0
	1163+23.00	35′ RT	1.0
		TOTAL =	4.0

28100201 STONE RIPRAP, CLASS A1

					BOX	APRON	TOTAL	TOTAL
		LENGTH	WIDTH	DEPTH	VOLUME	VOLUME	VOLUME	VOLUME
LOCATION	<u>STATION</u>	<u>(FT)</u>	<u>(FT)</u>	<u>(FT)</u>	(CU YD)	(CU YD)	(CU YD)	<u>(TON)</u>
SN 020-8045	112+60.50	38.0	18.0	1.5	38.0	12.6	50.6	91.0
SN 020-8046	1163+25.30	38.0	18.0	1.0	25.3	10.0	35.3	63 . 6
							TOTAL =	154.6
							USE =	155.0

*NOTE: CONVERSION OF 1.8 TON/CU YD WAS UTIZED FOR ITEM 28100201.

44201335 CLASS C PATCHES, TYPE IV, 8"

LOCATION SN 020-8045	STATION 122+49.50 122+49.50	IQ		LT RT	LENGTH (<u>FT)</u> 22.0 22.0	WIDTH (<u>FT)</u> 12.5 12.5	AREA (SQ YD 30.6 30.6
					SUB	-TOTAL =	61.2
SN 020-8046	1163+06.30 1163+06.30		1163+36.30 1163+36.30		30.0 30.0	13.0 13.0	43.3 43.3
					SUB	-TOTAL =	86.6
						TOTAL =	147.8
						USE =	148.0

FILE NAME =	USER NAME = cearlockbm	DESIGNED - BMC	REVISED -
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	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -
	DLOT DATE - 10/C/2015	DATE 10 17 10	DEVICED

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	SCHEDULE OF C	760	124CR	DEWITT	41	12	
				CONTRACT	NO. 1	70754	
SCALE: N/A	SHEET NO. 1 OF 3 SHEETS	STA TO STA		ILLINOIS FED. A	ID PROJECT		

SCHEDULE OF QUANTITIES

44213100 PAVE	EMENT FABRIC					54001001 BOX	CULVERT END	SECTIONS	CULVERT NO	. 1
	CTATION TO			IDTH AREA		LOCATION		E.	ACH	
LOCATION SN 020-8045	STATION IO	<u>STATION</u> 122+71 . 50 LT		(<u>FT</u>) (<u>SQ YD</u>) 12.5 30.6		SN 020-8045	LT		1.0	
SN 020-8045	122+49.50	122+71.50 LT 122+71.50 RT		12.5 30.6 12.5 <u>30.6</u>			RT		<u>1.0</u>	
			SUB-T	OTAL = 61.2		-	TOTAL =		2.0	
SN 020-8046		1163+36.30 LT 1163+36.30 RT		13.0 43.3 13.0 43.3		54001002 BOX	CULVERT END	SECTIONS	S, CULVERT NO	. 2
	1100.00.00	1100 100 100				LOCATION		E.	ACH	
			30D-11	OTAL = 86.6		SN 020-8046	LT		1.0	
			T	OTAL = 147.8			RT		1.0	
44213204 TIE	BARS 3/4" (24"	LENGTH)		USE = 148.0		-	TOTAL =		2.0	
LOCATION	STATION IO			SPACING (FT)	EACH					
SN 020-8045	122+49.50	122+71.50	22.0	2.0	11.0	<u>55100500 ST0</u>	RM SEWER REM	MOVAL 12"	-	
SN 020-8046	1163+06.30	1163+36.30	30.0	2.0	15 . 0	LOCATION	STATION		LENGTH (FT)	
				TOTAL =	26.0	SN 020-8046			70.0	_
								TOTAL =	70.0	
48101500 AGGF	REGATE SHOULDE	RS. TYPE B. 6"				COEOOOEO DEL	AONING CATCH	DACINI		
LOCATION	STATION I			T) WIDTH (FT)	AREA (SQ YD)	60500050 REM	10VING CATCH	RAZIN		
SN 020-8045	121+60.00 121+60.00	123+60.00 RT 123+60.00 LT	7 200.0 7 200.0	4.0 4.0	88.9 88.9	LOCATION	STATION		EACH	
	121100.00	123100.00 []	200.0			SN 020-8046	1163+29.10		1.0	
				SUB-TOTAL =	177.8					
SN 020-8046	1162+25.00	1164+25.00 RT	т 200.0	4.0	88.9			TOTAL =	1.0	
314 020 00 10	1162+25.00	1164+25.00 LT		4.0 _	88.9	61101020 STOF	RM SEWERS PR	OTECTED.	CLASS A. 18"	
				SUB-TOTAL =	177.8	31101010	<u> </u>		<u> </u>	
				JOB TOTAL	11160	LOCATION	STATION	<u>T0</u>	STATION	LENGTH (FT)
				TOTAL =	355.6	SN 020-8046	1163+11.00	LT	1163+23.00	12.0
				UCE -	750.0		1107 11 00	DT	1163+11.00	70.0
-0100700 DEM	AOVAL OF EVICTIN	NO CERMOTURES A	OULVEDT NO	USE =	356.0		1163+11.00	RT	1163+23.00	12.0
	MOVAL OF EXISTIN	NG STRUCTURES, (1					TOTAL =	94.0
LOCATION SN 020-8045			EACH 1.0			61133300 FIEL	D TILE JUNCT	ION VAUL	TS, 4' DIA,	
50100400 DEM	MUNAL UE ENICTI	NG STRUCTURES, (THE VEDT NO	2		LOCATION	STATION	OFFSET	EACH	
JOIOUHOU KEM	OVAL OF EVISITI	NO STINUCTURES, (JUL VEITI INU.	<u> </u>		SN 020-8046	1163+11.00	35′ LT	1.0	
LOCATION			EACH				1163+11.00	35′ RT	1.0	
SN 020-8046			1.0				1163+23.00 1163+23.00	35′ LT 35′ RT	1.0	
							1165+25.00	33 KT	1.0	
51500100 NAMI	E PLATES							TOTAL =	4.0	
LOCATION			EACH							
SN 020-8045			1.0							
SN 020-8046			1.0							
		TOTAL -	2.0							
		TOTAL =	2.0							

54011202 PRECAST CONCRETE BOX CULVERT 12' x 2'

LENGTH (FT) LOCATION SN 020-8045 ____35.0

TOTAL = 35.0

TOTAL = 35.0

54011203 PRECAST CONCRETE BOX CULVERT 12' x 3'

LOCATION LENGTH (FT) SN 020-8046 <u>35.0</u>

ILE NAME =	USER NAME = cearlockbm	DESIGNED - BMC	REVISED -					F.A.P. S	ECTION		TAL SHEET
w:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D57	87 5RAWA Data\Besig BM05 70754-sht-schedule.	adeviseD -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES		JANTITIES	760	124CR	DEWITT	41 13
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO. 7075	
	PLOT DATE = 10/6/2015	DATE - 10-13-10	REVISED -		SCALE: N/A	SHEET NO. 2 OF 3 SHEETS	STA TO STA		ILLINOIS FED. AID		

SCHEDULE OF QUANTITIES

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

LOCATION	SIDE	NB/SB	STATION	<u>10</u>	STATION	LENGTH (FT)
SN 020-8045	RT	NB	121+73.00		122+23.00	50.0
	LT	SB	122+98.00		123+48.00	50.0
SN 020-8046	RT	NB	1162+37.74		1162+87.74	50.0
	LT	SB	1163+62.74		1164+12.74	50.0

TOTAL= 200.0

63000360 LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN

SIDE	NB/SB	STATION	<u> 10</u>	STATION	LENGTH (FT)
RT	NB	122+23.00		122+98.00	75.0
LT	SB	122+23.00		122+98.00	75.0
RT	NB	1162+87.74		1163+62.74	75.0
LT	SB	1162+87.74		1163+62.74	<u>75.0</u>
	RT LT	RT NB LT SB RT NB	RT NB 122+23.00 LT SB 122+23.00 RT NB 1162+87.74	RT NB 122+23.00 LT SB 122+23.00 RT NB 1162+87.74	RT NB 122+23.00 122+98.00 LT SB 122+23.00 122+98.00 RT NB 1162+87.74 1163+62.74

TOTAL= 300.0

63100167 TRAFFIC BARRIER TERMINAL TYPE 1, (SPECIAL) TANGENT

LOCATION	SIDE	NB/SB	STATION	IO	STATION	EACH
SN 020-8045	RT	NB	121+23.00		121+73.00	1.0
	RT	NB	122+98.00		123+48.00	1.0
	LT	SB	121+73.00		122+23.00	1.0
	LT	SB	123+48.00		123+98.00	1.0
SN 020-8046	RT	NB	1161+87.74		1162+37.74	1.0
	RT	NB	1163+62.74		1164+12.74	1.0
	LT	SB	1162+37.74		1162+87.74	1.0
	LT	SB	1164+12.74		1164+62.74	1.0

TOTAL= 8.0

148.0

78001110 PAINT PAVEMENT MARKING - LINE 4"

(WHITE EDGE LINES)

LC	<u>OCATION</u>	STATION	IO	STATION		LENGTH (FT)
S.N.	020-8045	122+49 . 50 122+49 . 50		122+71 . 50 122+71 . 50	RT LT	22 . 0 22 . 0
				SUB-TO	ΓAL =	44.0
S.N.		1163+06.30 1163+06.30		1163+36.30 1163+36.30	RT LT	30 . 0 30 . 0
				SUB-TO	ΓAL =	60.0

78200410 GUARDRAIL MARKERS, TYPE A

LOCATION	SIDE	NB/SB	STATION	IO	STATION	LENGTH (FT)	EACH
SN 020-8045	RT	NB	121+23.00		123+48.00	225.0	4.0
	LT	SB	121+73.00		123+98.00	225.0	4.0
SN 020-8046	RT	NB	1161+87.74		1164+12.74	225.0	4.0
	LT	SB	1162+37.74		1164+62.74	225.0	4.0
						TOTAL=	16.0

78201000 TERMINAL MARKER - DIRECT APPLIED

LOCATION	SIDE	NB/SB	STATION	EACH
SN 020-8045	RT	NB	121+23.00	1.0
	RT	NB	123+48.00	1.0
	LT	SB	121+73.00	1.0
	LT	SB	123+98.00	1.0
SN 020-8046	RT	NB	1161+87.74	1.0
	RT	NB	1164+12.74	1.0
	LT	SB	1162+37.74	1.0
	LT	SB	1164+62.74	1.C

TOTAL=

8.0

Z0038700 PERMANENT BENCH MARKS

 LOCATION
 EACH

 SN 020-8045
 1.0

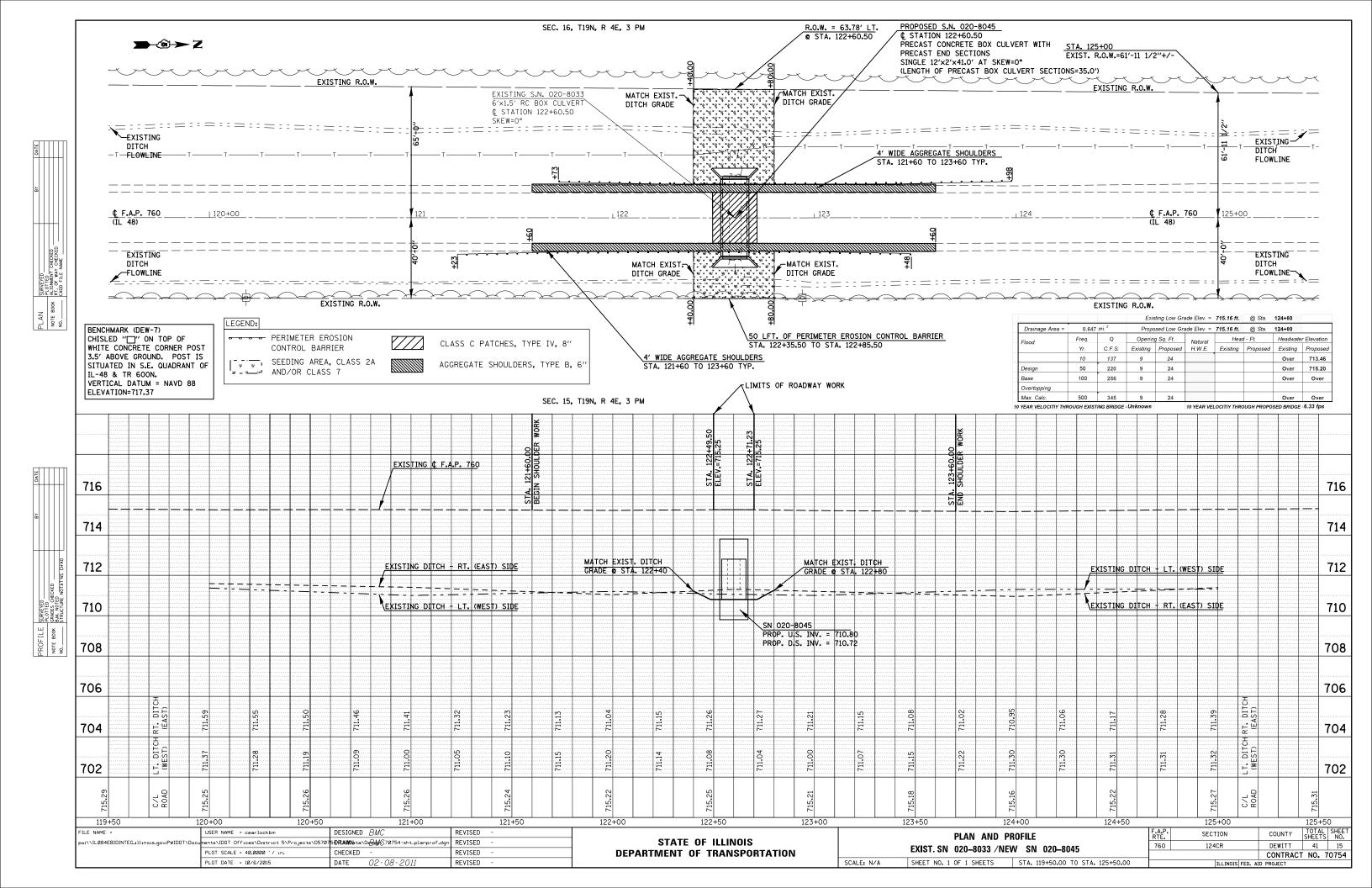
 SN 020-8046
 1.0

TOTAL = 2.0

NAME =	USER NAME = cearlockbm	DESIGNED - BMC	REVISED -	
\ILØ84EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	:uments\IDOT Offices\District 5\Projects\D57	7 3RAWW Data\Besig BM \$70754-sht-schedule.	dRE VISED -	STATE OF ILLINOIS
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION
	PLOT DATE = 10/6/2015	DATE - 10-13-10	REVISED -	
	(LØ84EBIDINTEG.:111:no:s.gov:PWIDOT\Do		L084EBIDINTEG.1 1nois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D57 07BRAWN Dota\Besig BMG 70754-sht-schedule. PLOT SCALE = 40.0000 '/ in. CHECKED -	L084EBIDINTEG.ill:nois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D57878RWMMData\BesigBMG70754-sht-schedule.dREVISED - PLOT SCALE = 40.00000 '/ in. CHECKED - REVISED -

TOTAL =

			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCHEDULE OF Q	UANTITIES	760	124CR	DEWITT	41	14
					CONTRAC	T NO. 7	70754
COME, NIZA	CHEET NO 7 OF 7 CHEETS	CTA TO CTA					



INDEX OF SHEETS

- General Plan and Elevation
- 2-3. Precast Concrete Box Culvert Apron End Section Details
- Porous Granular Embankment Detail
- 5.-6. As- Builts Plans
- 7. Staging Details

GENERAL NOTES

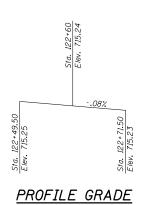
The design fill height for this box is 1.46 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box seament with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square

Pay Limits for Box



DESIGN SPECIFICATIONS 2012 AASHTO LRFD Bridge Design Specifications 6th Edition

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS f'c = 5,000 psi

= 65,000 psi (Welded Wire Fabric)

Culvert End Sections Concrete Box Culverts 12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric. Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic. 3" ♦ PVC drain cast with the concrete (Adjust location to clear reinforcement) Square foam blockout around PVC drain (to be removed with formwork)

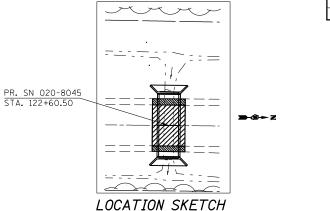
Pay Limits for Precast

DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 12' x 2'	Foot	<i>35′</i>
Stone Riprap, Class A1	Ton	91.0
Porous Granular Embankment	Cu. vd	46.9
	•	



SHEET NO. 1 OF 7 SHEETS STA. ---- TO STA. --

GENERAL PLAN AND ELEVATION SINGLE 12' X 3' PRECAST BOX CULVERT IL RTE. 48 F.A.P. RTE. 760 SEC. 124CR DEWITT COUNTY STATION 122+60.50

CONTRACT NO. 70754

S.N. 020-8045 SECTION COUNTY **GENERAL PLAN AND ELEVATION** DEWITT 41 16 760 124CR PROPOSED CULVERT NO. 1 - STR. NO. 020-8045

			Exis	ting Low Gra	ade Elev. =	715.16 ft.	@ Sta.	124+00	
Drainage Area =	0.647	mi. ²	Propo	sed Low Gra	ade Elev. =	715.16 ft.	@ Sta.	124+00	
Flood	Freq.	Q	Openin	Opening Sq. Ft. Natu		Natural Head -		Headwate	r Elevation
7 7000	Yr.	C.F.S.	Existing	Proposed	H.W.E.	Existing	Proposed	Existing	Proposed
	10	137	9	24				Over	713.46
Design	50	220	9	24				Over	715.20
Base	100	256	9	24				Over	Over
Overtopping									
Max. Calc.	500	345	9	24				Over	Over
YEAR VELOCITIY THR	EAR VELOCITIY THROUGH EXISTING BRIDGE : Unknown						UGH PROPO	SED BRIDGE	6.33 fps

USER NAME = cearlockjdUSER NAME =

PLOT DATE = 11/18/2015PLOT DATE =

ments\IDOT Offices\DistFildE NAMEolects\D57

DESIGNED - BMC

CHECKED

DATE

75RWWWData\BesicRM0570754-sht-detai

10-14-10

FILE NAME :

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NAME PLATE

DESIGN SCOUR ELEVATION TABLE

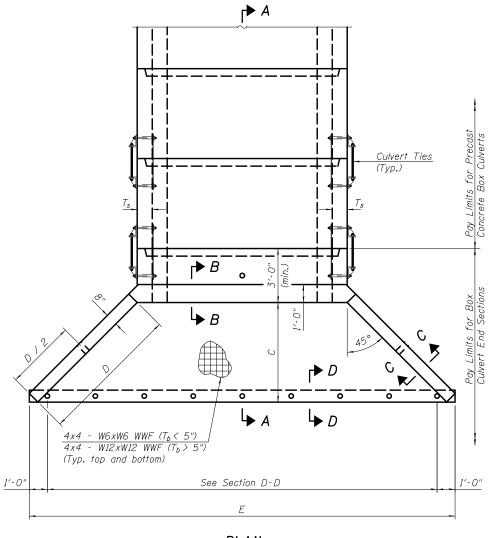
Design Scour	Upstream	Downstream
Elevation (ft.)	707.80	707.72

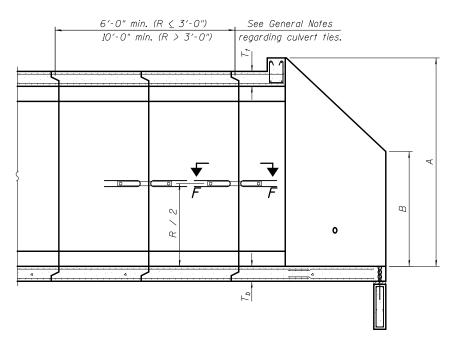
REVISED **STATE OF ILLINOIS** REVISED REVISED REVISED

DEPARTMENT OF TRANSPORTATION

$4x4 - W6xW6 \ WWF \ (R \le 3'-0")$ 4x4 - W12xW12 WWF (R > 3'-0")(Typ. each face) 3" ∮ Drain hole See General Notes

END VIEW





SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than l_2 " nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra

The Contractor may use reinforcement bars in lieu of welded wire fabric (WWF). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in area of reinforcement equal to or greater than that provided by the WWF. Minimum lap lengths detailed herein are applicable to WWF and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications,

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	T_{t}	Tb	Ts	А	В	С	D	Ε	Concrete Cu. Yd.	Culvert Ties Required
3′-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ 8"	4'-1"	10'-4 ⁵ 8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-778"	3′-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2′-8"	3'-10 ⁵ 8"	5′-6"	12 - 4 ⁵ 8 "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ 8"	5′-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-42"	2'-212"	2'-1138"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-812"	3′-10"	11'-2 ³ 8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-412"	2'-812"	3'-11 ³ 8"	5′-7"	13'-8'8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 ¹ 2"	5′-3"	13'-2 ³ 8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-412"	3'-22"	4'-11 ³ 8"	7′-0"	15'-8'8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5′-2"	3′-1"	4'-8 ⁵ 8"	6′-8"	15'-212"	4.7	Yes
5′-0"	2'-0"	8"	7"	6"	3′-5"	2'-3"	2'-11 ³ 8"	4'-2"	12′-10"	3.9	Yes
5′-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-74"	3. 5	Yes
5′-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ 8	5′-7"	14'-10'8"	4.9	Yes
5′-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3′-10"	5′-5"	14'-714"	4.5	Yes
5′-0"	4'-0"	8"	7"	6"	5′-5"	3'-3"	4'-1138"	7′-0"	16'-10'8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5′-3"	3'-2"	4'-914"	6'-9"	16'-5 ⁷ 8"	5,5	Yes
5'-0"	5'-0"	8"	7"	6"	6′-5"	3′-9"	5'-11 ³ 8"	8′-5"	18'-10'8"	7.4	Yes
5'-0"	5′-0"	6"	6"	6"	6'-3"	3′-8"	5'-94"	8'-2"	18'-5 ⁷ 8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3′-5"	2'-3"	2'-1138"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ 8"	4'-1"	13'-10 ⁵ 8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ 8"	5′-7"	16'-0'8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2′-8"	3'-10 ⁵ 8"	5′-6"	15'-10 ⁵ 8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5′-5"	3'-3"	4'-11 ³ 8"	7′-0"	18'-0'8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-1034"	6'-11"	17'-10 ³ 4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6′-5"	3′-9"	5'-11 ³ 8"	8'-5"	20'-018"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3′-8"	5'-10 ³ 4"	8'-4"	19'-1034"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7′-5"	4'-3"	6'-11' ₂ "	9′-10"	22'-04"	9.5	Yes
6′-0"	6'-0"	7"	7"	7"	7′-4"	4'-2"	6'-10 ³ 4"	9′-9"	21'-1034"	9.3	Yes
7′-0"	4'-0"	8"	8"	8"	5′-5"	3'-3"	4'-1138"	7′-0"	19'-2'8"	7.4	Yes
7′-0"	5′-0"	8"	8"	8"	6′-5"	3′-9"	5'-11 ³ 8"	8′-5"	21'-218"	8.9	Yes
7′-0"	6'-0"	8"	8"	8"	7′-5"	4'-3"	6'-11' ₂ "	9′- 10"	23'-214"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3′-5"	2'-3"	2'-1138"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ 8"	5′-7"	18'-218"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5′-5"	3'-3"	4'-1138"	7′-0"	20'-218"	7.8	Yes
8'-0"	5′-0"	8"	8"	8"	6′-5"	3′-9"	5′-11 ³ 8"	8′-5"	22'-218"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7′-5"	4'-3"	6'-11 ¹ 2"	9′-10"	24'-214"	11.0	Yes
9'-0"	5′-0"	9"	9"	9"	6′-6"	3′-9"	6'-078"	8′-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7′-6"	4'-3"	7'-018"	9′-11"	25′-5 ⁵ 8″	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3′-7"	2'-4"	3'-1'2"	4'-5"	18'-10'4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2′-10"	4'-12"	5′-10"	20'-104"	8.6	No
10'-0"		10"	10"	10"	6'-7"	3′-10"	6'-1'2"	8′-8"	24'-1038"	12.0	Yes
10'-0"		10"	10"	10"	7′-7"	4'-4"	7'-1'2"	10'-1"	26'-10 ³ 8"	13.9	Yes
11'-0"	4'-0"	11"	11"	11"	5′-8"	3'-4"	5'-24"	7'-4"	24'-134"	11.5	Yes
11'-0"	6'-0"	11"	11"	11"	7′-8"	4'-4"	7'-2'4"	10'-2"	28'-178"	15.5	Yes
12'-0"		12"	12"	12"	3'-9"	2'-5"	3'-3 ⁵ 8"	4'-8"	21'-6'2"	9.3	No
12'-0"		12"	12"	12"	4'-9"	2'-11"	4'-3 ⁵ 8"	6'-1"	23'-612"	11.1	No
12'-0"		12"	12"	12"	5′-9"	3'-5"	5'-3 ⁵ 8"	7′-6"	25'-6 ⁵ 8"	13.0	Yes
12'-0"		12"	12"	12"	7′-9"	4'-5"	7'-3 ⁵ 8"	10′-4"	29'-6 ⁵ 8"	17.4	Yes
	1							'	0 0 0	1 1	
Note: Tw	o sets o	of apr	on end	t secti	on dimensi	ons are sho	own above :	for some l	hox culvert	sizes due	to the ton

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

PLAN

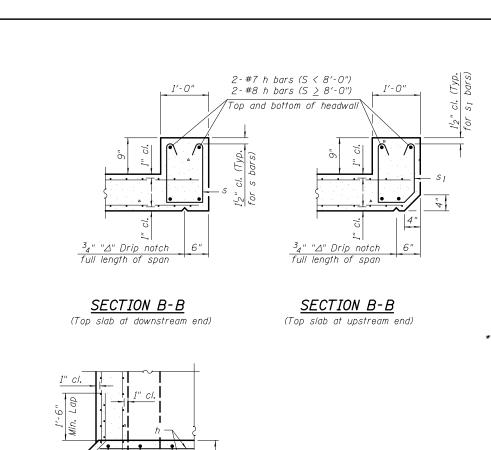
FILE NAME =

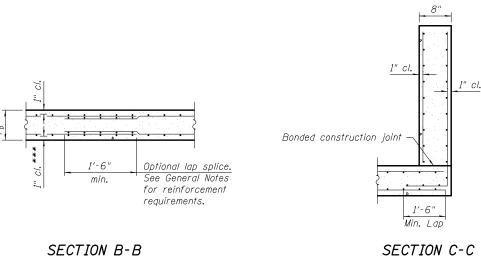
USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE :	CHECKED -	REVISED

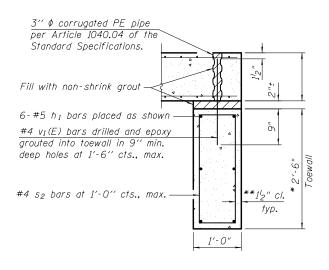
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - CULVERT NO.1 (SN 020-8045) SHEET NO. 2 OF 7 SHEETS

SECTION COUNTY 760 124CR DEWITT 41 17 CONTRACT NO. 70754







SECTION D-D

TOEWALL CONSTRUCTION SEQUENCE

4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.

5. Pressure grout voids using non-shrink grout conforming to

Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability

of the precast toewall during handling. Additional lifting points

may be required depending upon the length of the toewall or the

Contractor may need to modify the design of the toewall for the

** If soil conditions permit, the sides of the toewall may be poured

directly against the soil. The clear cover on the sides of the

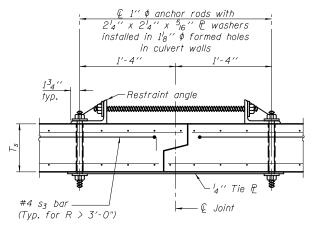
toewall shall be increased to 3" by increasing the thickness of

1. Perform excavation and construct toewall. 2. Backfill accordingly and place bedding for

precast box culvert end sections. 3. Set precast box culvert end section.

SECTION B-B (Bottom Slab)

*** This dimension shall be increased by 2" for CIP construction.



SECTION F-F (Showing culvert tie details)

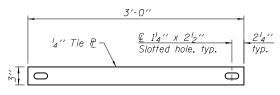
Notes:

the toewall.

proposed handling method.

€ 1'4" \$\phi\$ hole for 1" \$\phi\$ anchor rod with 214" x 214" x 516" ℓ 1 ′ ′ φ hole in P washer bottom leg of angle

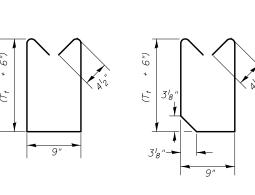
RESTRAINT ANGLE DETAIL



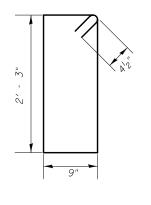
TIE PLATE DETAIL

#4 s or s_1 bars at spacing = T_t (Spacing need not be less than 8")

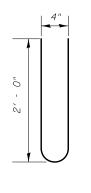
SECTION E-E



BAR S1



BAR S2



BAR S4

FILE NAME =

BAR s

USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

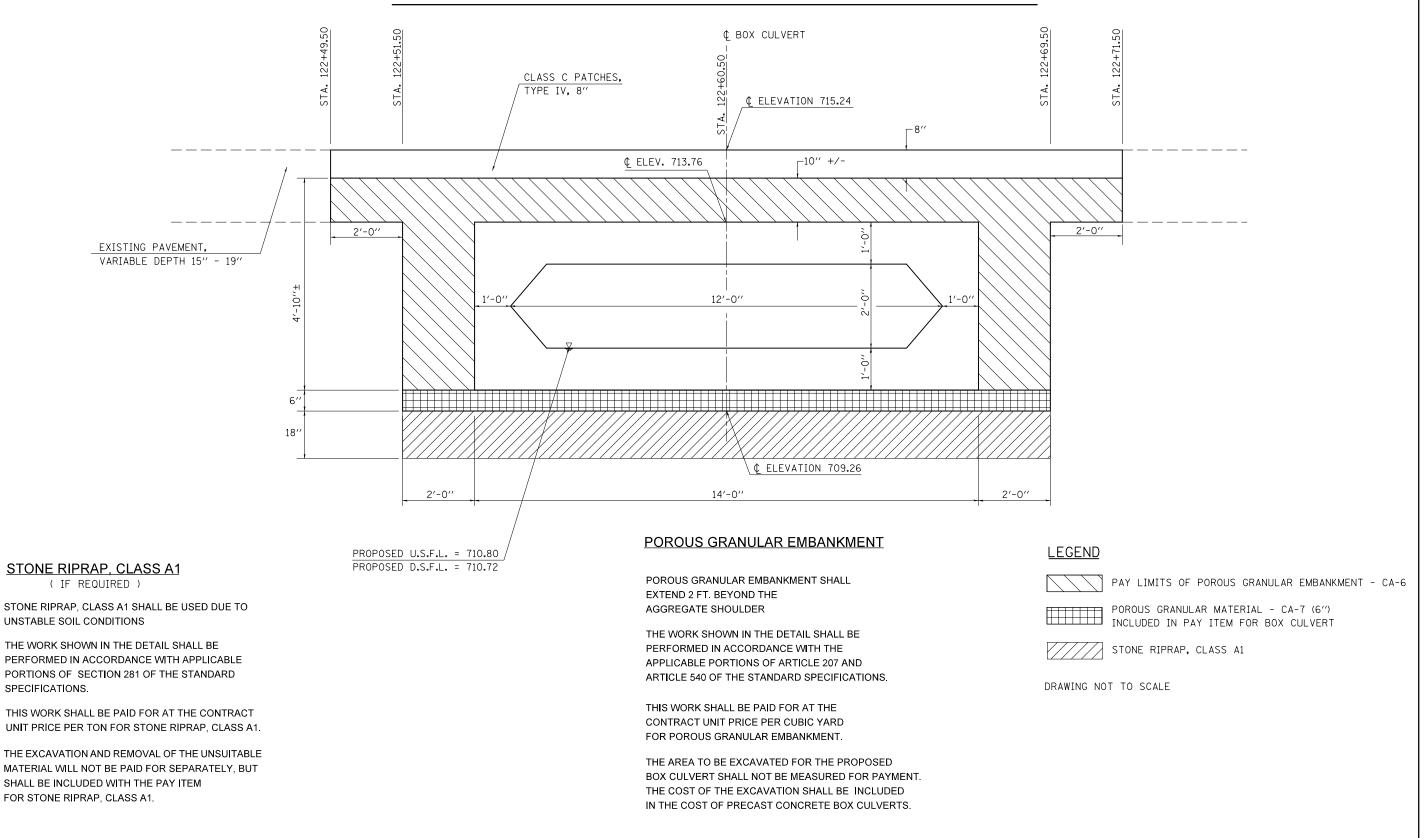
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PRECAST CONCRETE BOX CULVERT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
APRON END SECTION DETAILS - CULVERT NO.1 (SN 020-8045)	760	124CR	DEWITT	41	18
ATTION LIND SECTION DETAILS - COLVENT NO. 1 (3N 020-0043)	CONTRACT NO. 7075				0754
SHEET NO. 3 OF 7 SHEETS		ILLINOIS FED. AI	D PROJECT		

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2^{l}_{4} " x^{2}_{16} " plate washers shall be provided under each nut required for the anchor rods. Anchor rods installed in the sidewalls of the culvert shall be tightened per Article 505.04(f)2(d) of the Standard Specifications. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes. Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to the approval of the

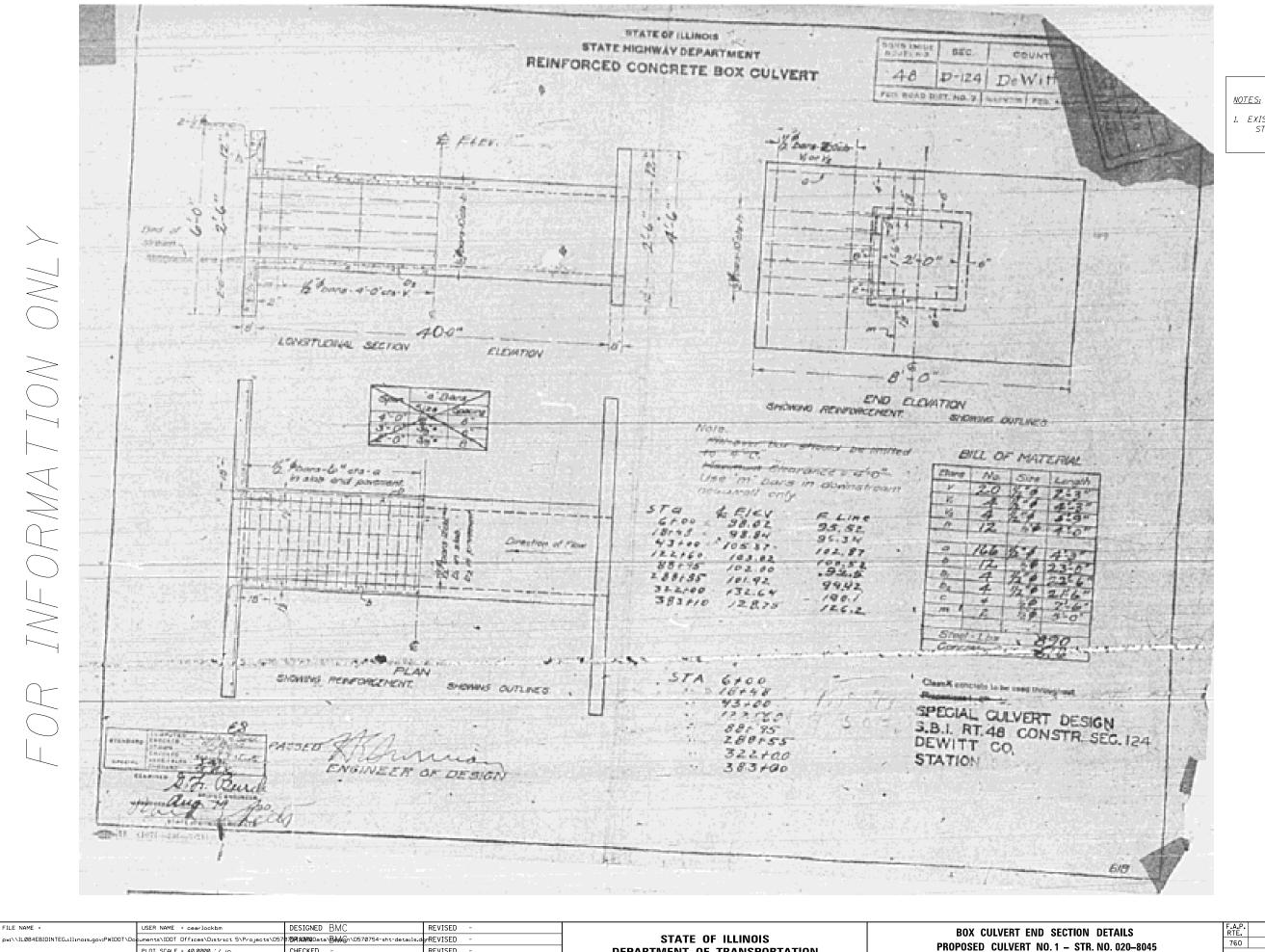
Engineer.

DETAIL OF POROUS GRANULAR EMBANKMENT PAY LIMITS CULVERT NO. 1, STATION 122 + 60.50 S.N. 020-8045



FILE NAME =	USER NAME = cearlockbm	DESIGNED - BMC	REVISED	-
pw:\\ILØ84EBIDINTEG.:llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D57	7 5R AMM Data\Besig BM05 70754-sht-details.d	REVISED	-
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED	-
	PLOT DATE = 10/6/2015	DATE - 02-08-2011	REVISED	-

PORC	F.A.P. RTE.	SECT	TION						
	760	124	CR						
SCALE: N/A S	SHEET NO. 4 OF 7 SHEETS	STA.		TO STA.				ILLINOIS	FED



DEPARTMENT OF TRANSPORTATION

CHECKED

REVISED

1. EXISTING S.N. 020-8033 IS LOCATED AT STA. 122+60.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	124CR	DEWITT	41	20
		CONTRACT	NO. 7	0754
	ILLINOIS FED. A	ID PROJECT		

SHEET NO. 5 OF 7 SHEETS STA. -- TO STA. --

1. THIS AS-BUILT PLAN SHEET IS FROM POSTING MITIGATION CONTRACT 70894.

COUNTY TOTAL SHEET NO.

DEWITT 41 21

CONTRACT NO. 70754

SECTION

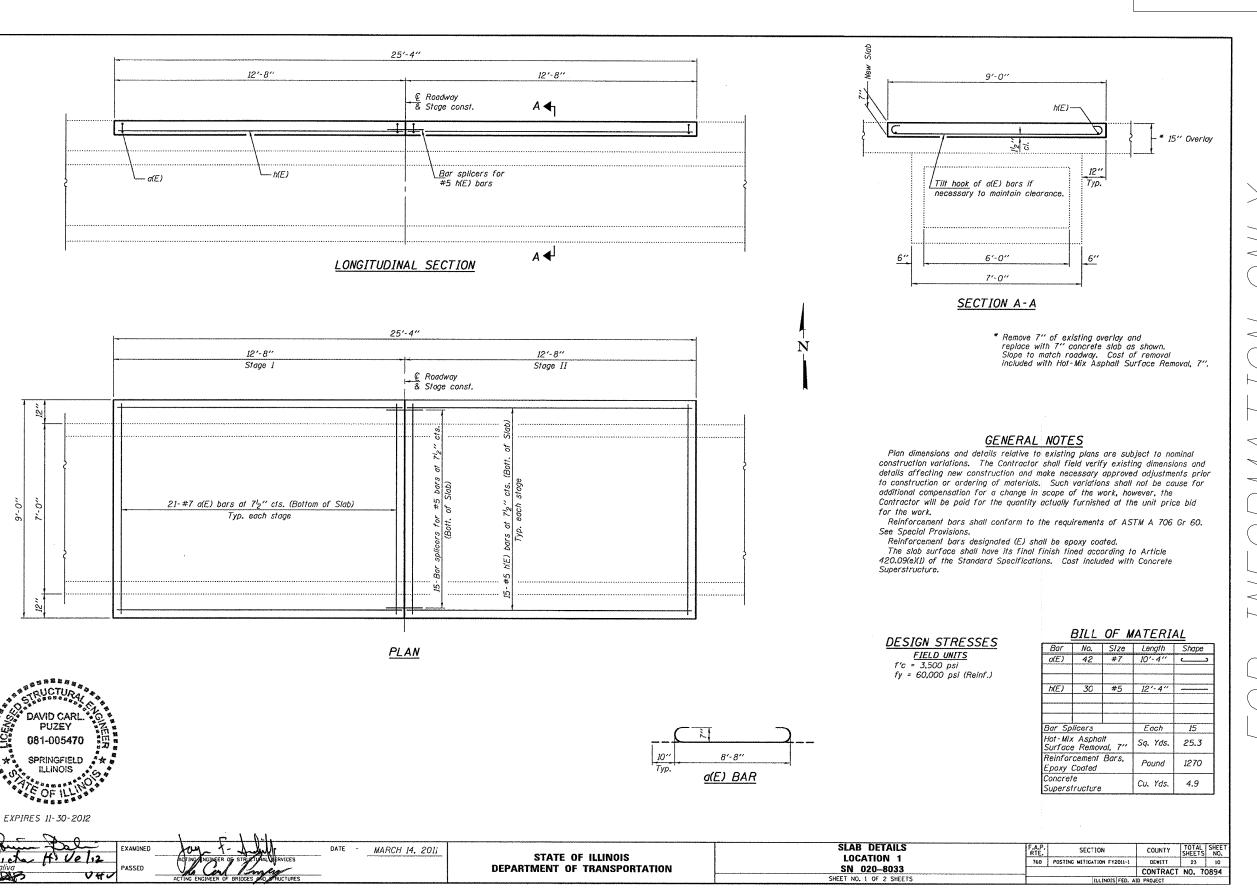
124CR

760

BOX CULVERT END SECTION DETAILS

PROPOSED CULVERT NO. 1 - STR. NO. 020-8045

SHEET NO. 6 OF 7 SHEETS STA.



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DESIGNED

pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do

USER NAME = cearlockbm

PLOT DATE = 10/6/2015

:uments\IDOT Offices\District 5\Projects\D57

DESIGNED BMC

CHECKED

87**5R XWW**Data**B**¢**√**G∩\D570754-sht-details

DATE 02-08-201

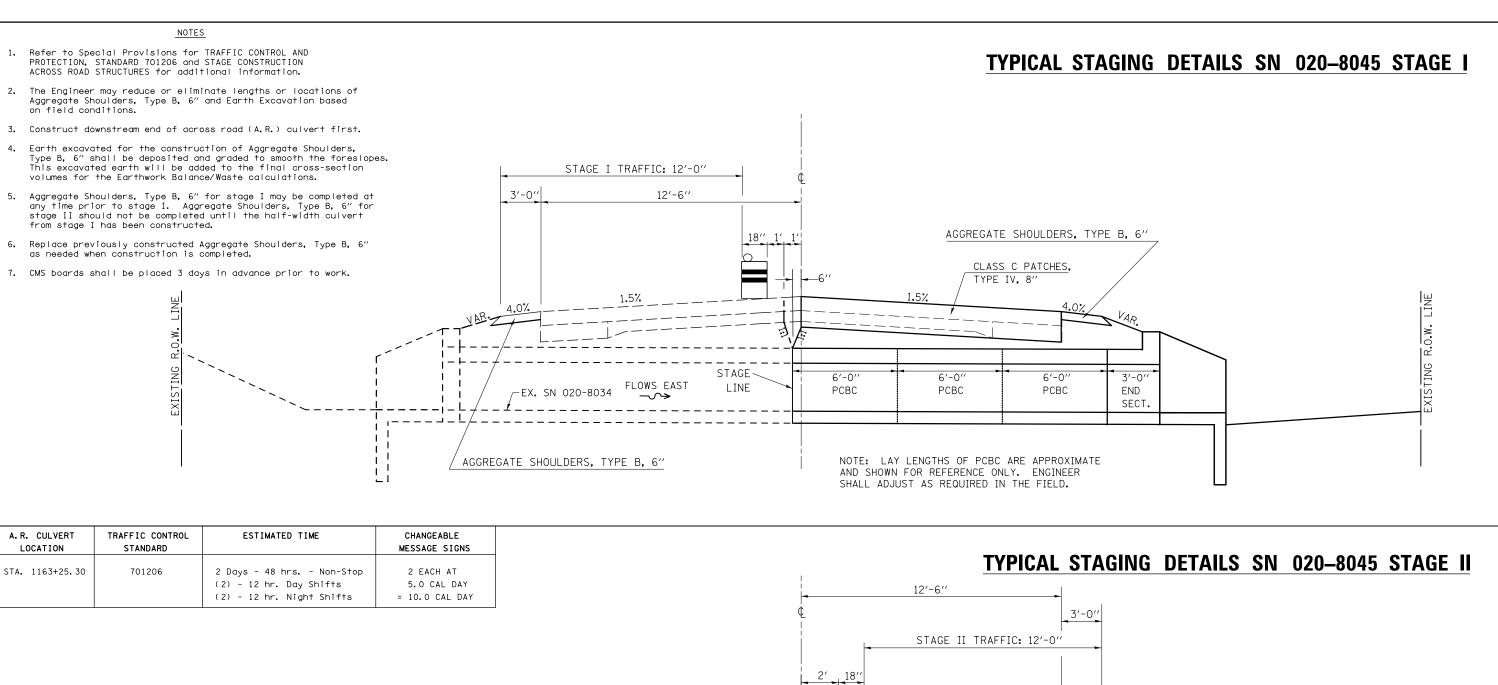
REVISED

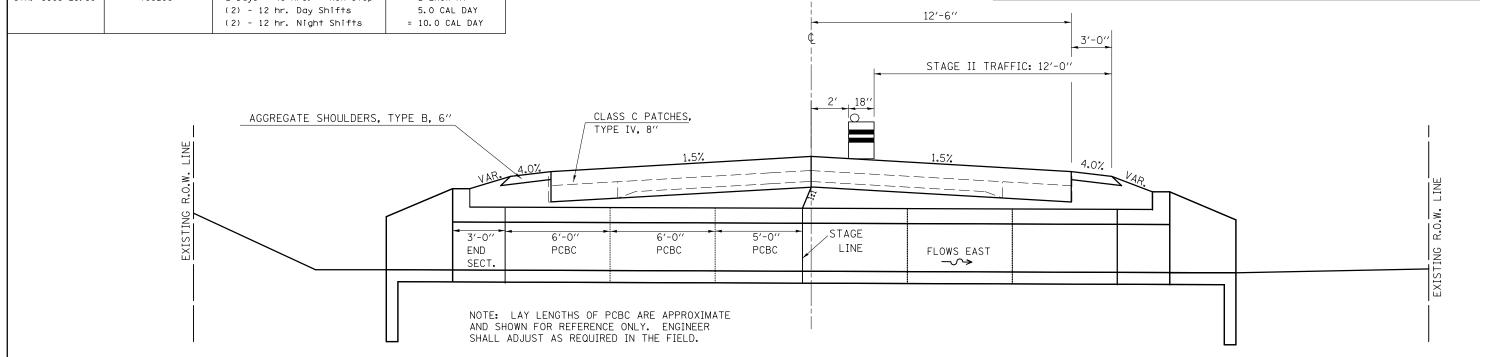
REVISED

REVISED

REVISED

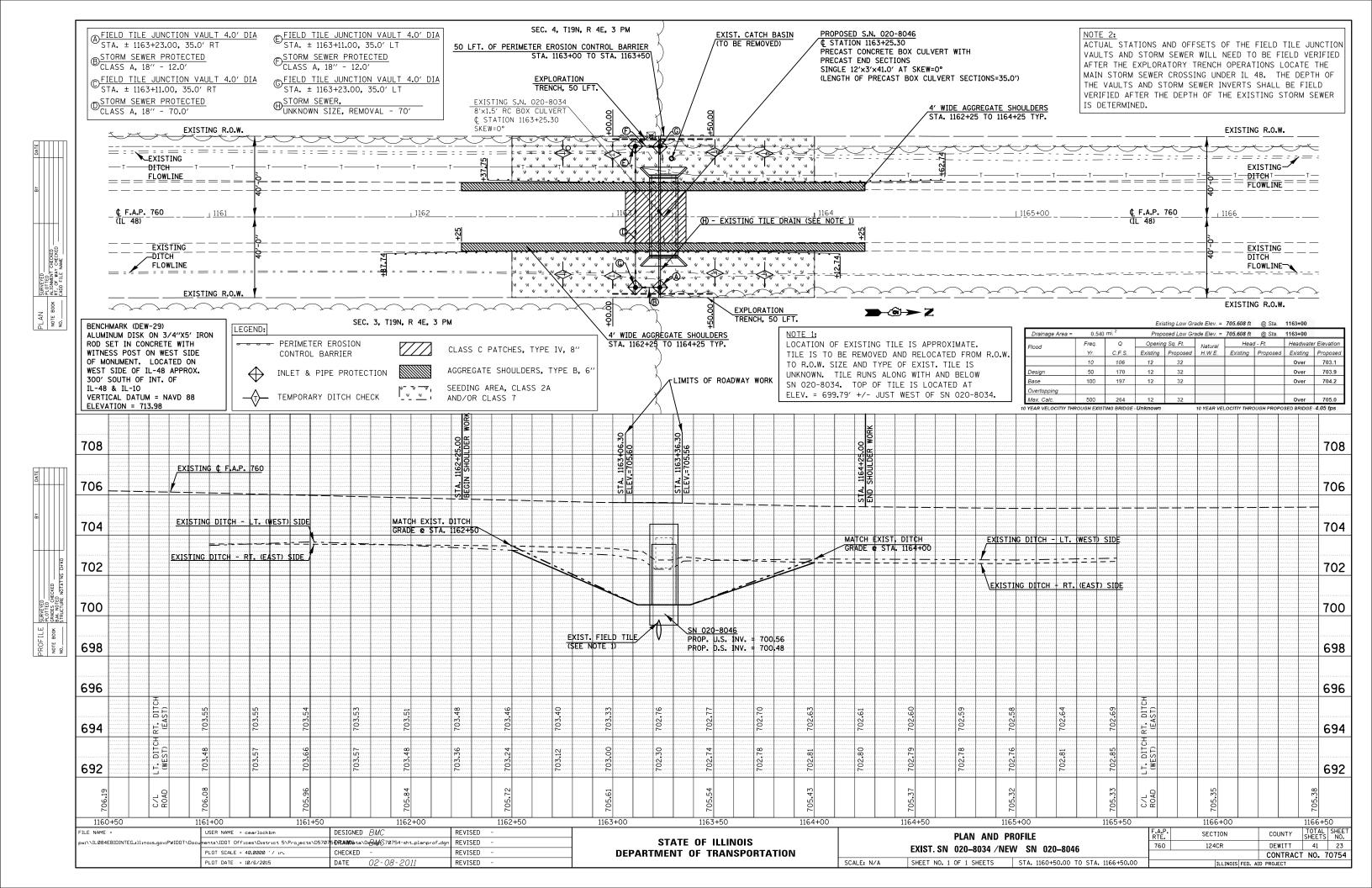
FILE NAME =





FILE NAME =	USER NAME = cearlockbm	DESIGNED -	REVISED -		STAGING DETAIL – CULVERT NO.1		F.A.P.	SECTION	COUNTY	TOTAL SHEET	
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	uments\IDOT Offices\District 5\Projects\D57	87 3RAWW Data\Besign\D570754-sht-details.c	rREVISED -	STATE OF ILLINOIS		CN 020 00		760	124CR	DEWITT	41 22
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SN U2U-8U	45			CONTRAC	T NO. 70754
	PLOT DATE = 10/6/2015	DATE -	REVISED -		SCALE: N/A	SHEET NO 7 OF 7 SHEETS	STA 122+49 50 TO STA 122+71 50		TILL TNOTE EET	ATD PROJECT	

DRAWING NOT TO SCALE



INDEX OF SHEETS

General Plan and Elevation

- 2-3. Precast Concrete Box Culvert Apron End Section Details
- Porous Granular Embankment Detail
- 5,-6. As-Built Plans

Pay Limits for Box

Culvert End Sections

Staging Details

GENERAL NOTES

The design fill height for this box is 1.13 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box seament with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square

Pay Limits for Box



Culvert End Sections Concrete Box Culverts 12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric. Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic. 3" ♦ PVC drain cast with the concrete (Adjust location to clear reinforcement) Square foam blockout around PVC drain (to be removed with formwork)

Pay Limits for Precast

DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures, No. 2	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 2	Each	2
Precast Concrete Box Culverts, 12′ x 3′	Foot	<i>35′</i>
Stone Riprap, Class A1	Ton	64.0
Porous Granular Embankment	Cu, yd	45.8

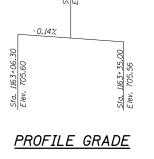
GENERAL PLAN AND ELEVATION SINGLE 12' X 3' PRECAST BOX CULVERT IL RTE. 48 F.A.P. RTE. 760 SEC. 124CR DEWITT COUNTY STATION 1163+25.30 S.N. 020-8046

COUNTY

DEWITT 41 24

CONTRACT NO. 70754

GENERAL PLAN AND ELEVATION SECTION 760 124CR PROPOSED CULVERT NO. 2 - STR. NO. 020-8046 SHEET NO. 1 OF 7 SHEETS STA. --- TO STA. ---



DESIGN SPECIFICATIONS

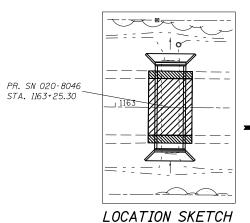
2012 AASHTO LRFD Bridge Design Specifications 6th Edition

LOADING HL-93

DESIGN STRESSES PRECAST UNITS

f'c = 5,000 psi

fy = 65,000 psi (Welded Wire Fabric)



PLAN

REVISED

REVISED

REVISED

REVISED

41'-0" Out to Out of Headwalls

├-- © Roadway

0.20 %

ELEVATION

12"—

-- € Roadway

Sta. 1163+25.30

- Cr. Elev. 705.57

13'-0"

1.5%

(See General Notes)

4.0%

Pay Limits for Precast Concrete Box Culverts

4.0%

Flow

PERMANENT BENCHMARK

20'-6"

Elev. 700.56

6" Porous Granular Material

WATERWAY INFORMATION TABLE

USER NAME = cearlockjdUSER NAME =

PLOT DATE = 11/18/2015PLOT DATE =

FILE NAME =

w:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\C

Existing Low Grade Elev. = 705.608 ft @ Sta. 1163+00

DESIGNED - BMC

10-14-10

CHECKED

DATE

				oung Lon on	ado Lior.		Œ Ota.		
Drainage Area =	0.540 mi. ²		Propo	osed Low Gr	ade Elev. =	705.608 ft	@ Sta.	1163+00	
Flood	Freq. Q		Openin	Opening Sq. Ft.		Head	d - Ft.	Headwate	r Elevation
Flood	Yr.	C.F.S.	Existing	Proposed	Natural H.W.E.	Existing	Proposed	Existing	Proposed
	10	106	12	32				Over	703.1
Design	50	170	12	32				Over	703.9
Base	100	197	12	32				Over	704.2
Overtopping									
Max. Calc.	500	264	12	32				Over	705.0
YEAR VELOCITIY THR	OUGH EXIST	TING BRIDGE	: Unknown		10 YEAR VE	LOCITIY THRO	OUGH PROPO	SED BRIDGE	4.05 fps

ments\IDOT Offices\DistFildE 514MEojects\D576757RANIANData\BesigRM0576754-sht-detail:

12"

20'-6"

STATION 1163+25.30 BUILT 201_ BY STATE OF ILLINOIS F.A.P. RT. 760 SEC. 124CR LOADING HL-93 STRUCTURE NO. 020-8046

NAME PLATE

DESIGN SCOUR ELEVATION TABLE

Design Scour	Upstream	Downstream
Elevation (ft.)	697.56	697.48

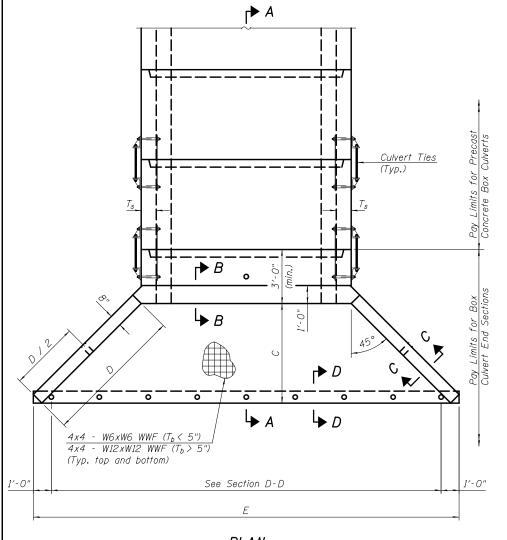
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Name

Plate

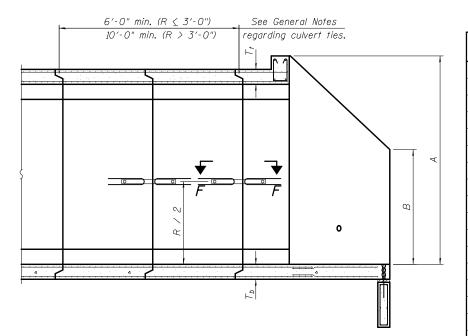
$4x4 - W6xW6 \ WWF \ (R \le 3'-0")$ 4x4 - W12xW12 WWF (R > 3'-0")(Typ. each face) 3" ∮ Drain hole See General Notes

END VIEW



PLAN

FILE NAME =



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than l_2 " nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra

The Contractor may use reinforcement bars in lieu of welded wire fabric (WWF). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in area of reinforcement equal to or greater than that provided by the WWF. Minimum lap lengths detailed herein are applicable to WWF and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

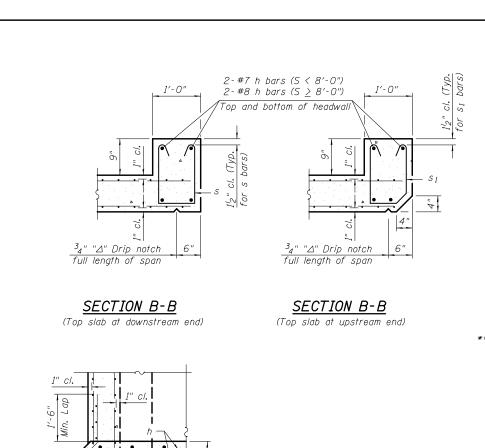
Span (S)	Rise (R)	T_{f}	T _b	Ts	А	В	С	D	Ε	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ 8"	4'-1"	10′-4 ⁵ 8″	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-778"	3′-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2′-8"	3'-10 ⁵ 8"	5′-6"	12 - 4 ⁵ 8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ 8"	5′-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-42"	2'-212"	2'-1138"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8'2"	3′-10"	11'-2 ³ 8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-412"	2'-812"	3'-11 ³ 8"	5′-7″	13'-8'8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-812"	5′-3"	13'-238"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-412"	3'-212"	4'-11 ³ 8"	7′-0"	15'-8'8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3′-1"	4'-8 ⁵ 8"	6′-8"	15'-212"	4.7	Yes
5′-0"	2'-0"	8"	7"	6"	3′-5"	2'-3"	2'-11 ³ 8"	4'-2"	12'-10"	3.9	Yes
5′-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-714"	3.5	Yes
5′-0"	3'-0"	8"	7"	6"	4'-5"	2′-9"	3'-11 ³ 8	5′-7″	14'-10'8"	4.9	Yes
5′-0"	3'-0"	6"	6"	6"	4'-3"	2′-8"	3′-10"	5′-5"	14'-7'4"	4.5	Yes
5′-0"	4'-0"	8"	7"	6"	5′-5"	3'-3"	4'-11 ³ 8"	7′-0"	16'-10'8"	6.1	Yes
5′-0"	4'-0"	6"	6"	6"	5′-3"	3′-2"	4'-914"	6′-9"	16'-5 ⁷ 8"	5,5	Yes
5'-0"	5′-0"	8"	7"	6"	6′-5"	3′-9"	5'-11 ³ 8"	8′-5"	18'-10'8"	7.4	Yes
5′-0"	5′-0"	6"	6"	6"	6'-3"	3′-8"	5'-94"	8'-2"	18'-5 ⁷ 8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3′-5"	2'-3"	2'-11 ³ 8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ 8"	4'-1"	13'-10 ⁵ 8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ 8"	5′-7"	16'-0'8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2′-8"	3'-10 ⁵ 8"	5′-6"	15′-10 ⁵ 8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5′-5"	3'-3"	4'-11 ³ 8"	7′-0"	18'-0'8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-1034"	6'-11"	17'-103 ₄ "	6.5	Yes
6'-0"	5′-0"	8"	7"	7"	6′-5"	3′-9"	5'-11 ³ 8"	8′-5"	20'-018"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3′-8"	5'-10 ³ 4"	8'-4"	19'-1034"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7′-5"	4'-3"	6'-11' ₂ "	9′- 10"	22'-04"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7′-4"	4'-2"	6'-10 ³ 4"	9′-9"	21'-1034"	9.3	Yes
7′-0"	4'-0"	8"	8"	8"	5′-5"	3'-3"	4'-1138"	7′-0"	19'-2'8"	7.4	Yes
7′-0"	5′-0"	8"	8"	8"	6′-5"	3′-9"	5'-11 ³ 8"	8′-5"	21'-218"	8.9	Yes
7′-0"	6'-0"	8"	8"	8"	7′-5"	4'-3"	6'-11'2"	9′-10"	23'-24"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3′-5"	2'-3"	2'-1138"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ 8"	5′-7"	18'-218"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5′-5"	3'-3"	4'-1138"	7′-0"	20'-21/8"	7.8	Yes
8'-0"	5′-0"	8"	8"	8"	6′-5"	3′-9"	5'-11 ³ 8"	8′-5"	22'-218"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7′-5"	4'-3"	6'-11 ¹ 2"	9′-10"	24'-214"	11.0	Yes
9′-0"	5′-0"	9"	9"	9"	6′-6"	3′-9"	6'-0 ⁷ 8"	8′-7"	23'-7"	10.6	Yes
9′-0"	6'-0"	9"	9"	9"	7′-6"	4'-3"	7'-0 ¹ 8"	9′-11"	25′-5 ⁵ 8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3′-7"	2'-4"	3'-1'2"	4'-5"	18'-10'4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2′-10"	4'-1 ¹ 2"	5′- <i>1</i> 0"	20'-1014"	8.6	No
10'-0"	5′-0"	10"	10"	10"	6′-7"	3′-10"	6'-1'2"	8′-8"	24'-1038"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7′-7"	4'-4"	7'-1'2"	10'-1"	26'-10 ³ 8"	13.9	Yes
11'-0"	4'-0"	11"	11"	11"	5′-8"	3'-4"	5'-24"	7′-4"	24'-134"	11.5	Yes
11'-0"	6'-0"	11"	11"	11"	7′-8"	4'-4"	7'-214"	10'-2"	28'-178"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3′-9"	2′-5"	3'-3 ⁵ 8"	4′-8"	21'-6'2"	9.3	No
12′-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 ⁵ 8"	6′-1"	23'-6'2"	11.1	No
12′-0"		12"	12"	12"	5′-9"	3′-5"	5′-3 ⁵ 8"	7′-6"	25′-6 ⁵ 8"	13.0	Yes
12'-0"		12"	12"	12"	7′-9"	4'-5"	7'- 3 ⁵ 8"	10′-4"	29'-6 ⁵ 8"	17.4	Yes
Note:	1			1			-		-	1	
	o sets o	of apr	on enc	t secti	on dimensio	ons are sho	own above i	for some l	ox culvert	sizes due	to the ton

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

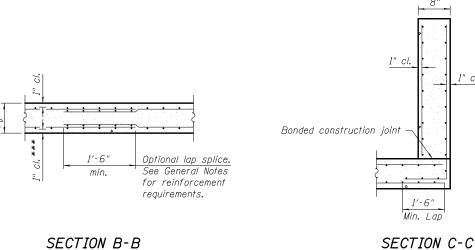
PRECAST CONCRETE BOX CULVERT	F.A.P. RTE.	SECTION
APRON END SECTION DETAILS - CULVERT NO. 2 (SN 020-8046)	760	124CR
CUEET NO 2 OF 7 CUEETS		

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
760	124CR		DEWITT	41	25		
		CONTRACT NO. 707					
	ILLINOIS	FED. AIC	PROJECT				



#4 s or s_1 bars at spacing = T_t

(Spacing need not be less than 8")



3" φ corrugated PE pipe per Article 1040.04 of the Standard Specifications. Fill with non-shrink grout-6-#5 h_I bars placed as shown #4 $v_1(E)$ bars drilled and epoxy grouted into toewall in 9" min. deep holes at 1'-6" cts., max. #4 s₂ bars at 1'-0" cts., max. 1'-0"

SECTION D-D

SECTION B-B (Bottom Slab)

*** This dimension shall be increased by 2" for CIP construction.

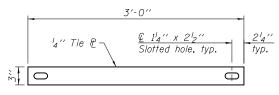
TOEWALL CONSTRUCTION SEQUENCE

- 1. Perform excavation and construct toewall.
- 2. Backfill accordingly and place bedding for precast box culvert end sections.
- Set precast box culvert end section.
- 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
- 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

€ 1" \$\phi\$ anchor rods with $2^{\prime}_{4}{}^{\prime\prime}$ x $2^{\prime}_{4}{}^{\prime\prime}$ x $^{5}_{16}{}^{\prime\prime}$ R washers installed in $1^{\prime}_{8}{}^{\prime\prime}$ ϕ formed holes in culvert walls Restraint angle └-¼′′ Tie Æ #4 s₃ bar — → Ç Joint (Typ. for R > 3'-0")

SECTION F-F (Showing culvert tie details)

€ 1'4" \$\phi\$ hole for 1" \$\phi\$ anchor rod with 24" x 24" x 56" ℓ 1 ′ ′ φ hole in P washer bottom leg of angle



TIE PLATE DETAIL

RESTRAINT ANGLE DETAIL

Notes:

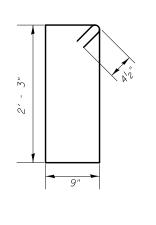
1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. $2\frac{1}{4}$ " $x2\frac{1}{4}$ " x^{2} "a" plate washers shall be provided under each nut required for the anchor rods. Anchor rods installed in the sidewalls of the culvert shall be tightened per Article 505.04(f)2(d) of the Standard Specifications. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes. Alternate culvert ties similar in strength and stiffness to the plan details may be

provided by the Contractor. Alternate culvert ties shall be subject to the approval of the

4 + 6") 8 * * * * * * * * * * * * * * * * * *	3/8" 3/8" 9"
<u>BAR s</u>	BAR sı

PLOT DATE =

SECTION E-E



BAR S2

REVISED



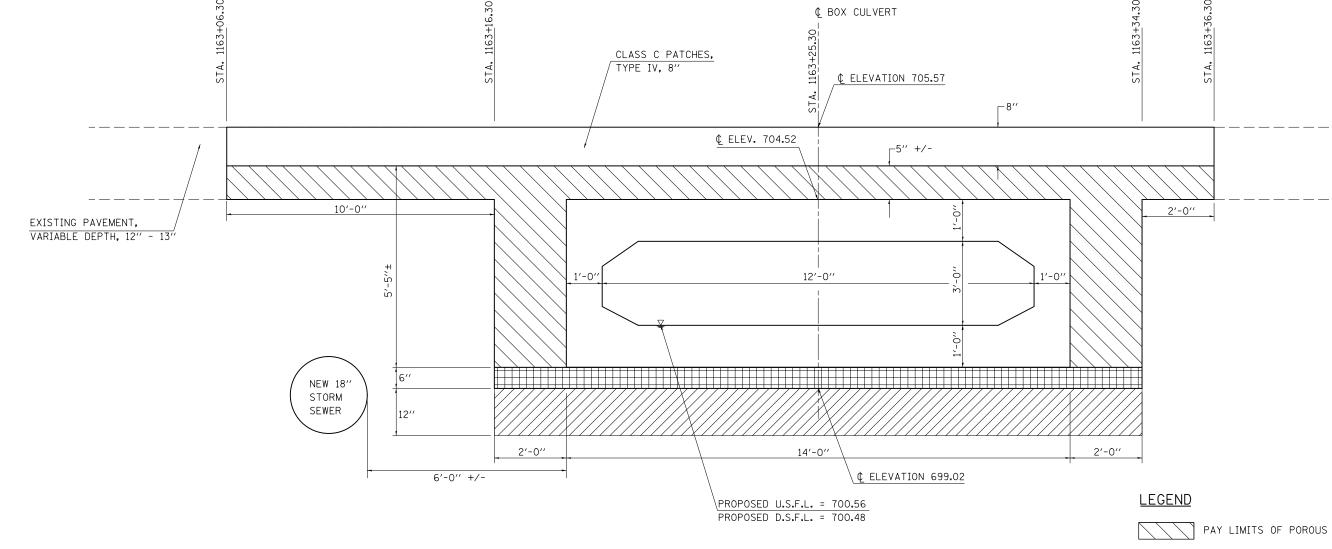
BAR S4

FILE NAME = USER NAME = DESIGNED REVISED CHECKED REVISED PLOT SCALE = DRAWN REVISED

CHECKED

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - CULVERT NO.2 (SN 020-8046)		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		124CR	DEWITT	41	26
ATTION END SECTION DETAILS - COLVEIT NO. 2 (SN 020-0040)			CONTRACT	NO. 7	70754
SHEET NO. 3 OF 7 SHEETS		TILITANTS EED AT	D PROJECT		

DETAIL OF POROUS GRANULAR EMBANKMENT PAY LIMITS CULVERT NO. 2, STATION 1163 + 25.30 S.N. 020-8046



STONE RIPRAP, CLASS A1

(IF REQUIRED)

STONE RIPRAP, CLASS A1 SHALL BE USED DUE TO UNSTABLE SOIL CONDITIONS

THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER

THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS.

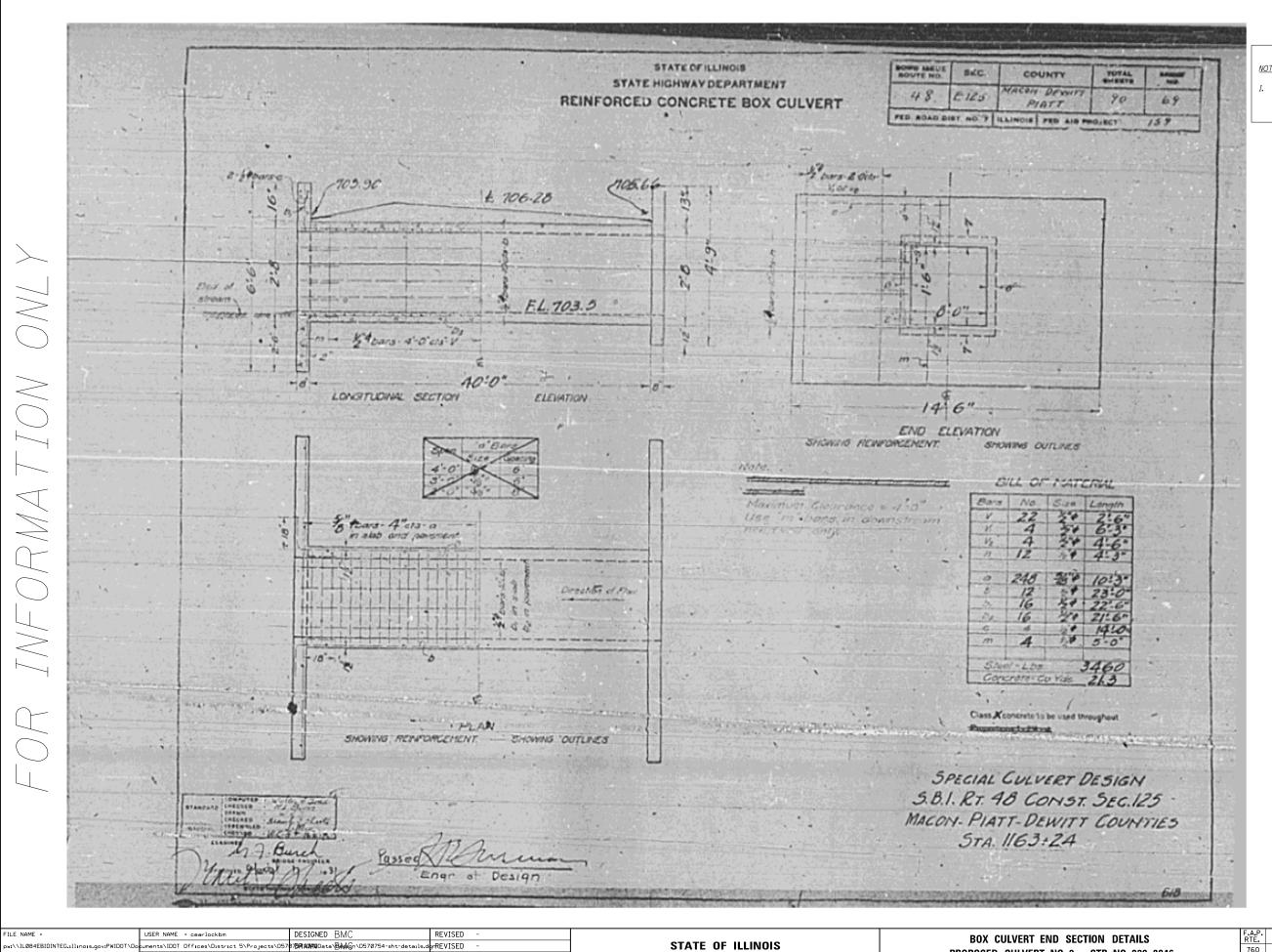
PAY LIMITS OF POROUS GRANULAR EMBANKMENT - CA-6

POROUS GRANULAR MATERIAL - CA-7 (6")
INCLUDED IN PAY ITEM FOR BOX CULVERT

STONE RIPRAP, CLASS A1

DRAWING NOT TO SCALE

POROUS GRANULAR EMBANK	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
STATION 1163 + 25.30, \$	760	124CR	DEWITT	41	27			
			CONTRACT	NO. 7	70754			
SCALE: N/A SHEET NO. 4 OF 7 SHEETS	STA	TO STA.		ILLINOIS FED. AID PROJECT				



DEPARTMENT OF TRANSPORTATION

CHECKED

REVISED

NOTES:

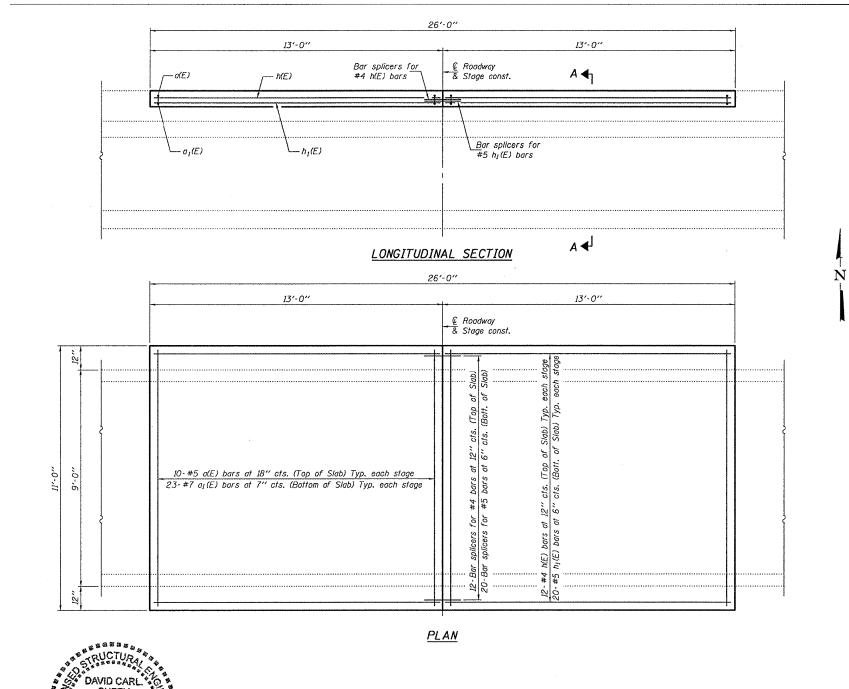
1. EXISTING S.N. 020-8034 IS LOCATED AT STA. 1163+25 +/-

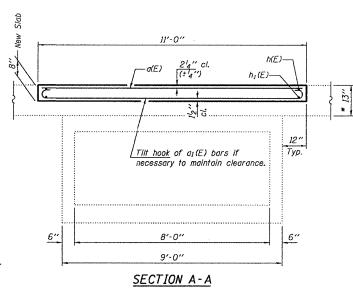
COUNTY TOTAL SHEET NO.

DEWITT 41 28

CONTRACT NO. 70754 SECTION 760 124CR PROPOSED CULVERT NO. 2 - STR. NO. 020-8046 SHEET NO. 5 OF 7 SHEETS STA.

I. THIS AS-BUILT PLAN SHEET IS FROM POSTING MITIGATION CONTRACT 70894.





* Remove 4" of existing HMA overlay and 4" of existing PCC pavement and replace with 8" concrete slab as shown. Slope to match roadway. Cost of removal included with Partial Depth Removal (Variable Depth).

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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.
The slab surface shall have its final finish tined according to Article
420.09(eXI) of the Standard Specifications. Cost included with Concrete
Superstructure.

BILL OF MATERIAL

DESIGN STRESSES

FIELD UNITS f'c = 3,500 psi fy = 60,000 psi (Reinf.)

	<u> </u>	<u> </u>	711		
Bar	No.	Size	Lei	ngth	Shape
a(E)	20	#5		-8"	
a1(E)	46	#7	12'	-4"	
h(E)	24	#4	12	′-8′′	
h1(E)	40	#5	12	′-8′′	
Bar St	olicers		E	och	32
	Depth I le Depth		Sq.	Yds.	31.8
Reinfor Epoxy	rcement Coated	Bars,	Po	und	2080
Concre Supers	te tructure		Cu.	Yds.	7.1

PUZEY Z 081-005470 ES SPRINGFIELD **

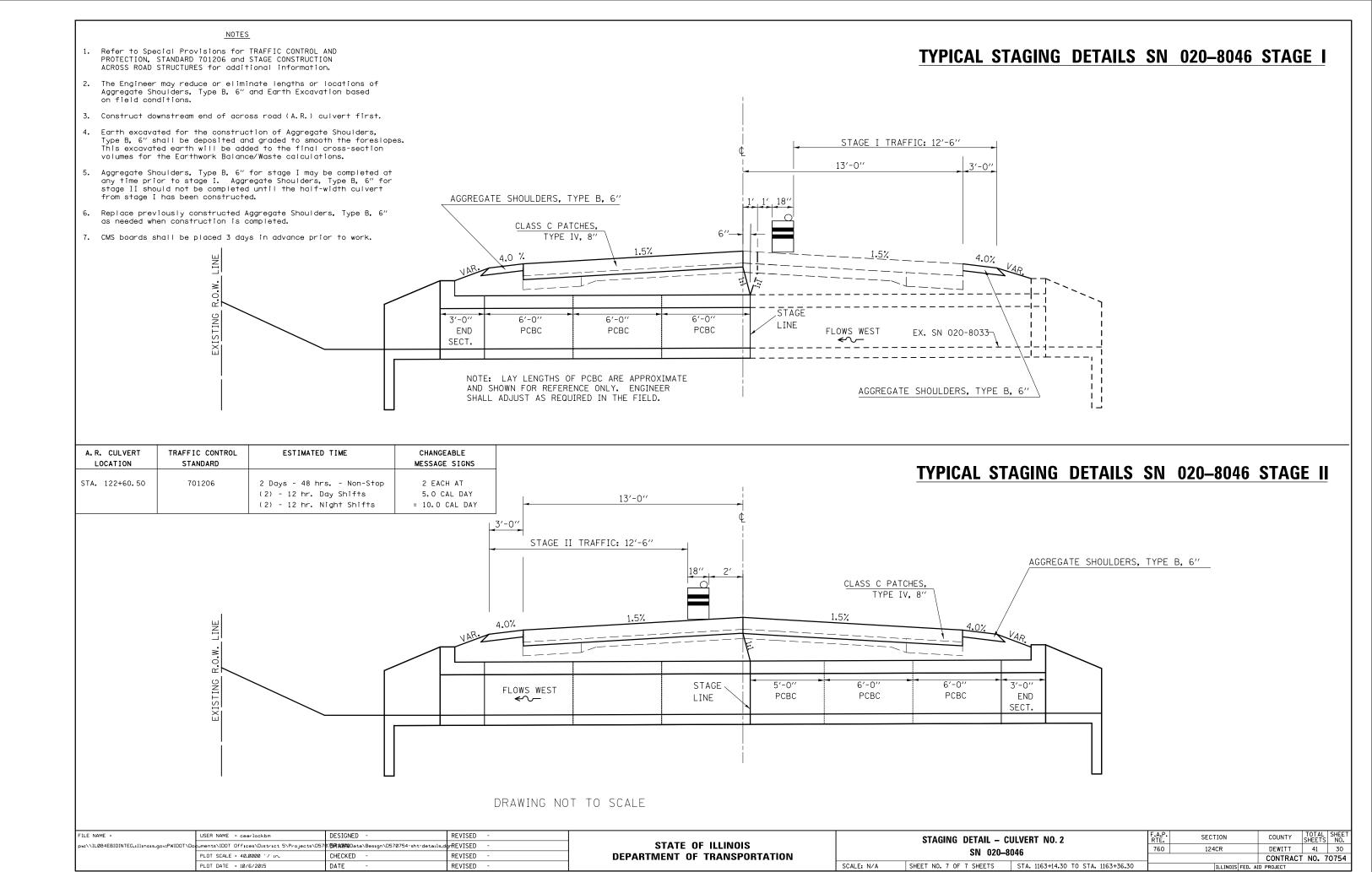
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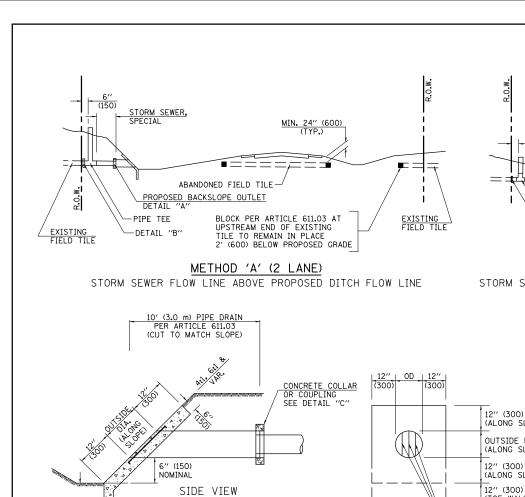
DESIGNED DATE - MARCH 14. 2011 CHECKED LICE A. T. VELIZ EXAMINED ACTING SPRINGER OF SAUCY SERVICES	STATE OF ILLINOIS	LOCATION 2	RTE. SECTION 760 POSTING MITIGATION FYZOII-1	COUNTY TOTAL SHEET NO.
DRAWN Daliva PASSED CHECKED DATE ACTING ENGINEER OF BRIDGES AND STACTURES	DEPARTMENT OF TRANSPORTATION	ENT OF TRANSPORTATION		CONTRACT NO. 70894

COUNTY TOTAL SHEET NO.

DEWITT 41 29 FILE NAME = DESIGNED BMC REVISED USER NAME = cearlockbm SECTION **BOX CULVERT END SECTION DETAILS** STATE OF ILLINOIS ow:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do uments\IDOT Offices\District 5\Projects\D57**87BRAWAW**Data**Bank**Gn\D570754-sht-details REVISED 760 124CR PROPOSED CULVERT NO. 1 - STR. NO. 020-8045 CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70754 SHEET NO. 6 OF 7 SHEETS STA. PLOT DATE = 10/6/2015 DATE 02-08-201 REVISED

aı(E) BAR





OUTSIDE DIA. PLUS 6" (150)

(ALONG SLOPE)

DETAIL OF RE-BARS

END VIEW

ELEVATION

6"(150)

6" (150)

PIPE DRAIN

HEADWALL FOR BACKSLOPE OUTLET

DETAIL "A"

WELDED WIRE FABRIC

PROPOSED PIPE

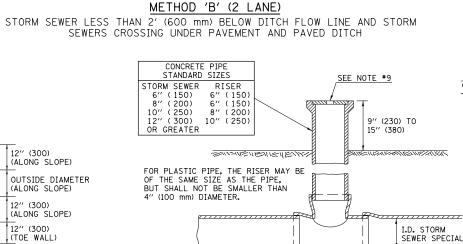
DRAIN

CONCRETE COLLAR

DETAIL "B"

EXISTING FIELD TILE OR
PROPOSED STORM SEWER, SPECIAL
OR STORM SEWER, PROTECTED

CLASS SI COLLAR DETAIL "C"



PAVED DITCH SECTION

COVER OVER PIPF

FROM 6" (150) TO

13" (330)

CONCRETE SLAB (SEE DETAIL "F" AND NOTE 7)
COVER OVER PIPE FROM 13" (330) TO 24" (600)

TRENCH BACKFILL

REQUIRED

(150)

#4 (10) RE-BARS @ ± 3" (75) CTS. BEND TO FIT

(250) (250)

999 9999

SIDE VIEW

(150)

SIDE

END VIEW

PIPE TEE CLASS SI CONCRETE COLLAR

DETAIL "B"

STORM SEWER, PROTECTED

INSPECTION WELL (DETAIL "D")

PIPE TEE

CLASS SI CONCRETE COLLAR

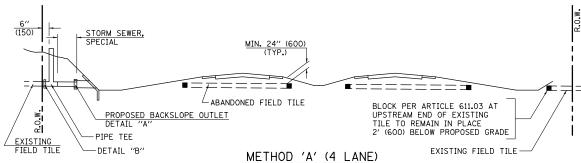
(150)

GENERAL NOTES

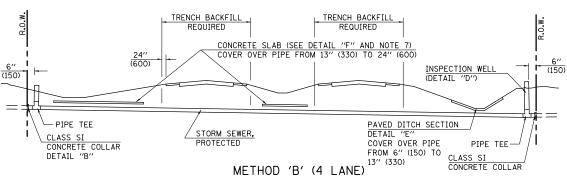
INSPECTION WELL

DETAIL "D"

- 1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- 2. ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE
- 3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- 4. EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- 5. NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- 6. THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER.
 MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- 7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- 8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED
- 9. THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES

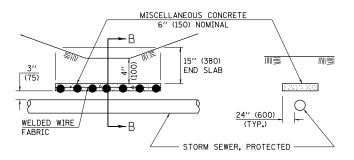
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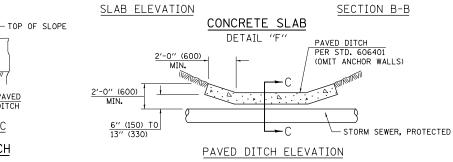
SECTION C-C

PAVED DITCH

DETAIL "E"

SCALE: N/A

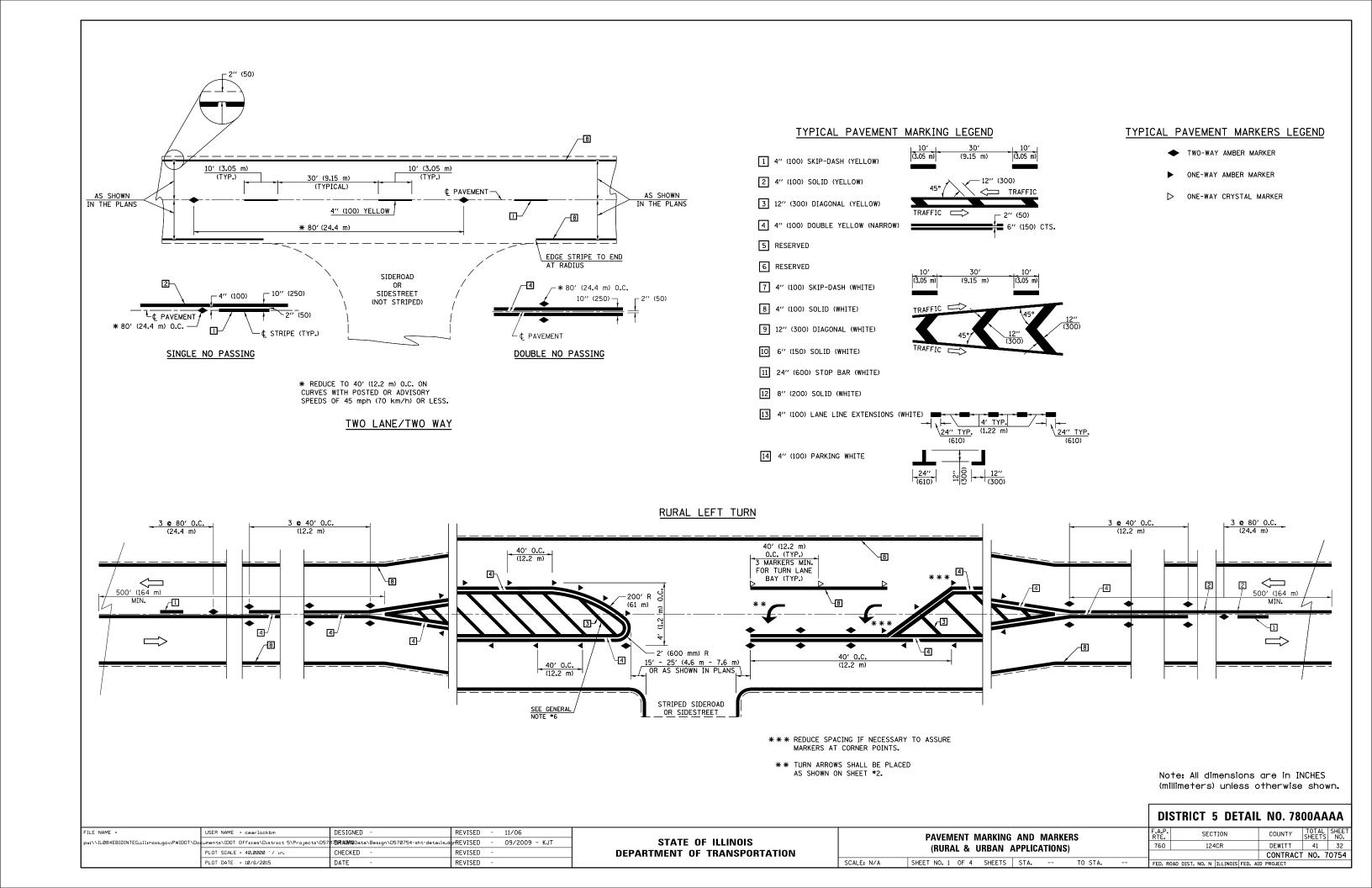


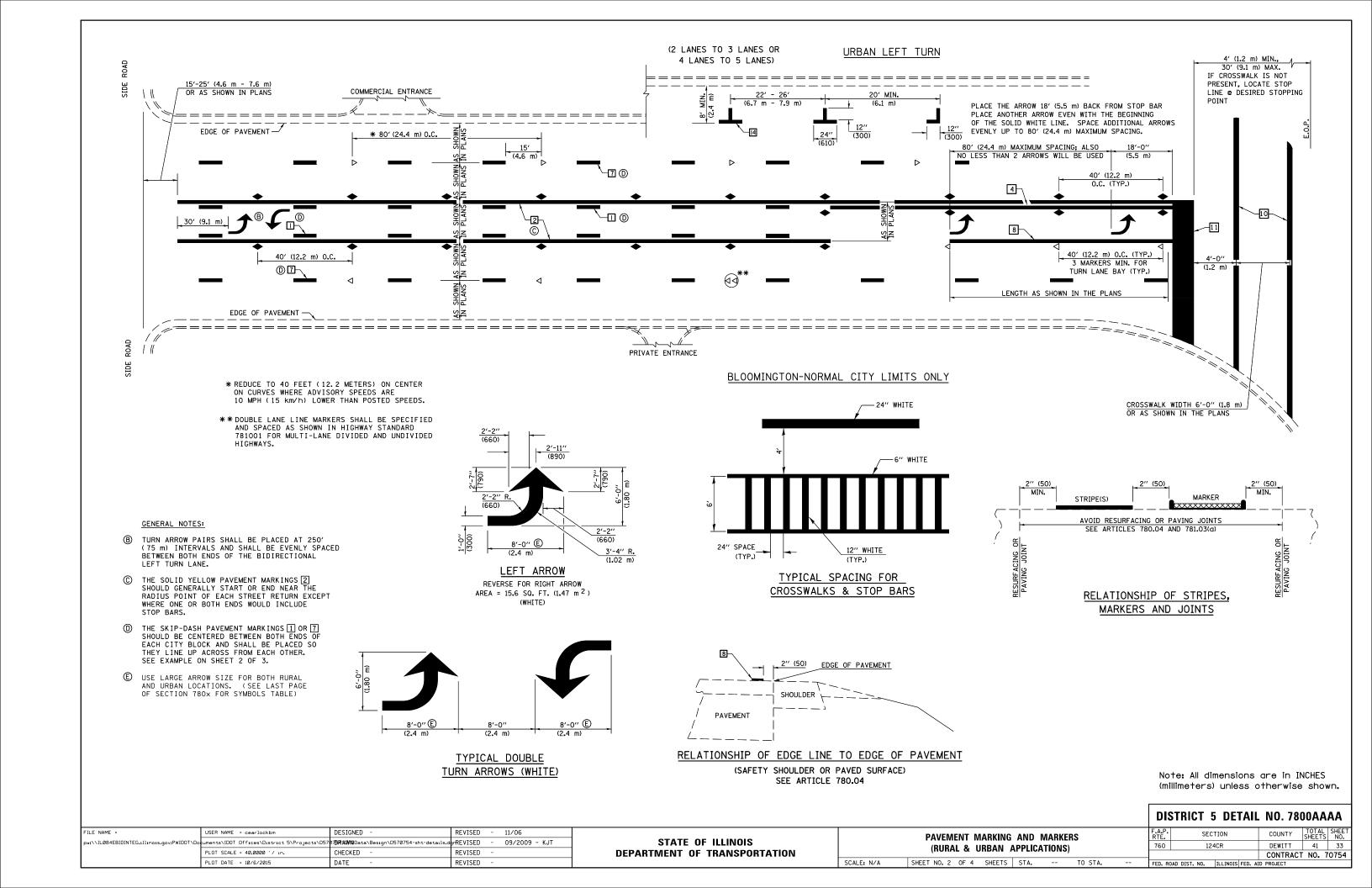


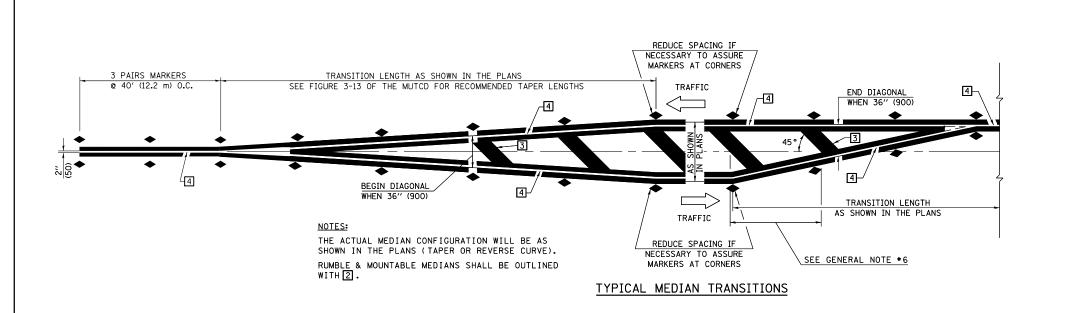
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	PLOT DATE = 10/6/2015	DATE -	REVISED	-	

							DISTRICT	5 DET	AIL N	10. 6	11010)11A
			o= =\//			F.A.P. RTE.	SEC-	ΓΙΟΝ	COL	INTY	TOTAL SHEETS	SHEET NO.
FIELD TILE SYSTEMS (TREATMENT OF EXISTING)							124	ICR	DEW	/ITT	41	31
									CON	TRACT	NO. 7	0754
	SHEET NO. 1 OF 1 SHEETS	STA.		TO STA.		FED. R	OAD DIST. NO.	ILLINOIS FED.	AID PROJE	CT		

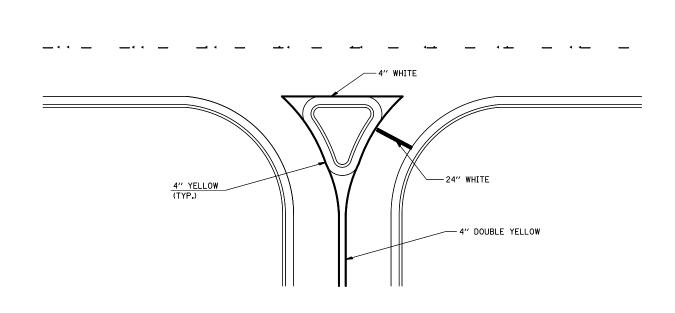




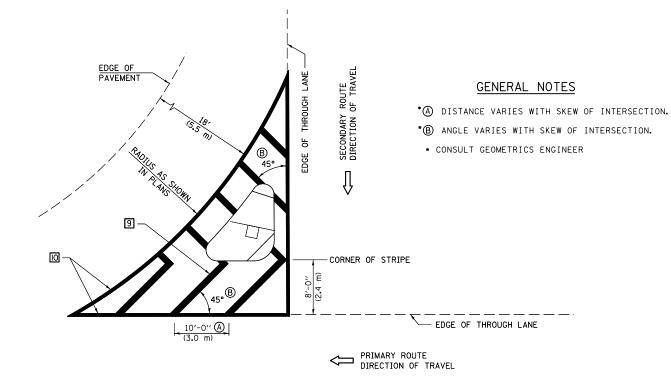


GENERAL NOTES

- 1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
- SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
- PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
- 4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
- 5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
- 6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING, <30 MPH USE 15' (<50 km/h USE 4.5 m) 30-45 MPH USE 20' (50-75 km/h USE 6.0 m) >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



<u>ISLAND</u>

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

								DIS	STRICT 5 DETA	L NO. 7	800AA	١AA
FILE NAME =	USER NAME = cearlockbm	DESIGNED -	REVISED	- 11/06			PAVEMENT MARKING AND MARKERS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
pw:\\IL084EBIDINTEG.:llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D5	7073RXXXXXIData\Besign\D570754-sht-details.	.dgrREVISED	- 09/2009 - KJT	STATE OF ILLINOIS		(RURAL & URBAN APPLICATIONS)	760	124CR	DEWITT	41	34
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED	-	DEPARTMENT OF TRANSPORTATION		(CONTRA	CT NO. 7	70754
	DI DT DATE - 10/6/2015	DATE -	DEVISED .	_		SCALE, NIZA	CHEET NO 3 OF A CHEETS STA TO STA	550 00	0.10 DECT NO THE PROTECT CO.	ATD DOG IFOT		

APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT. USE TABLE 2C-4 FROM THE (3.05 m) Winimum Distance 400' For 55 MPH 250' for 45 MPH 100' for 35 MPH or Less NOTES THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH. 100' for 35 MPH or Less

PAVEMENT MARKINGS AT

RAILROAD-HIGHWAY GRADE CROSSING

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN

WHEN THE PAVEMENT MARKING SYMBOL

TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B

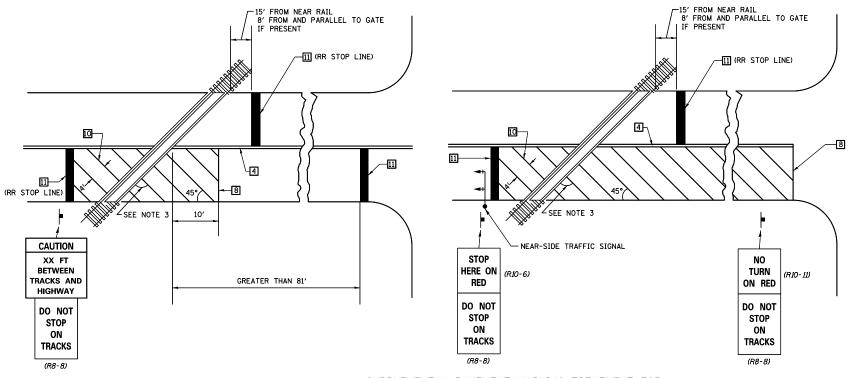
IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT

EACH LANE.

OF THE MUTCD.

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

SCALE: N/A

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 3. WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA F.A.P. SECTION COUNTY TOTAL SHEETS NO. NO.

ı	FILE NAME =	USER NAME = cearlockbm	DESIGNED -	REVISED	-	11/06
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ı		PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED	-	
ı		PLOT DATE = 10/6/2015	DATE -	REVISED	_	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SHEET NO. 4 OF 4 SHEETS STA. -- TO STA.

