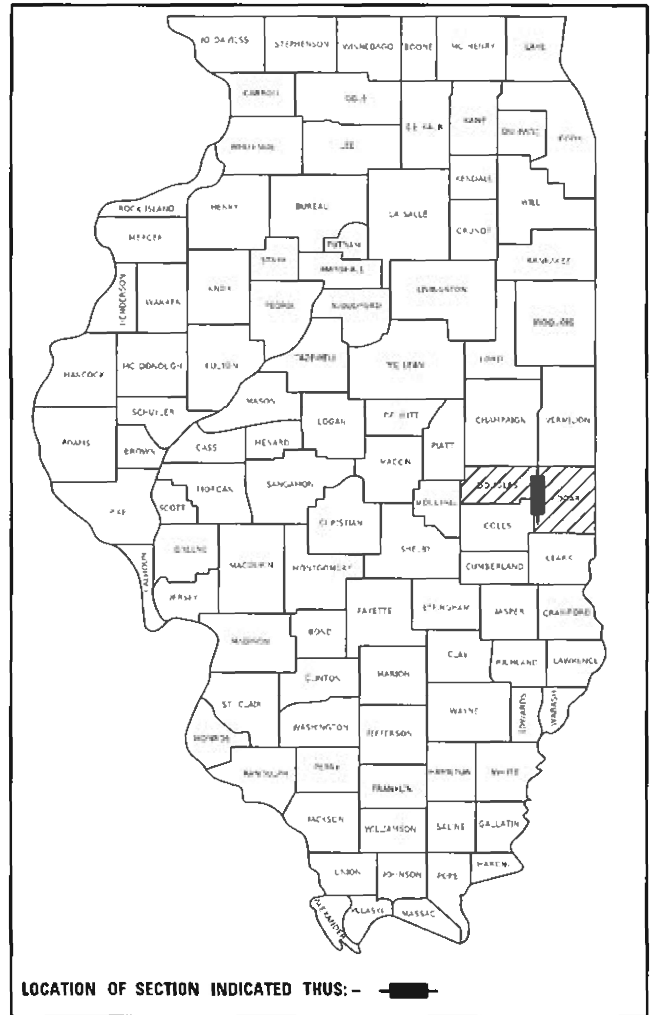


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836		ILLINOIS	224	1
		CONTRACT NO. 70D74		

06-12-2020 LETTING ITEM 057  
**FOR INDEX OF SHEETS, SEE SHEET NO. 2**  
**FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-9**

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**PROPOSED**  
**HIGHWAY PLANS**  
**FAP ROUTE 836 (IL-49)**  
**SECTION (116,117)RS-5,D5 HSIP 2020-1**  
**PROJECT STP-HSIP-1EWY(408)**  
**3P RESURFACING - STANDARD OVERLAY**  
**NEW SHOULDERS /MILLED RUMBLE STRIPS**  
**BRIDGE DECK OVERLAY /CULVERT REPLACEMENT**  
**EDGAR & DOUGLAS COUNTIES**

D-95-023-19



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

FUNCTIONAL CLASSIFICATION:  
 MINOR ARTERIAL

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED 03/24 20 2020  
Kensil A. Hammett  
 REGIONAL ENGINEER

May 8, 2020  
[Signature]  
 ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2020  
[Signature]  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS**

**OMISSIONS FROM PAVING**  
 S.N. 023-0018 (E-E APPROACH PAVEMENTS)  
 S.N. 023-2014 (E-E APPROACH PAVEMENTS)  
 RAILROAD CROSSING

**STRUCTURE INFORMATION**

**BRIDGE DECK OVERLAY**  
 S.N. 023-2010

**HMA 2.75" INLAY**  
 S.N. 023-8045  
 S.N. 023-8044  
 S.N. 023-8043  
 S.N. 023-8072  
 S.N. 023-2019

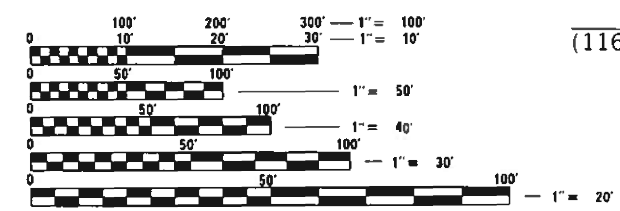
**CULVERT REPLACEMENT**  
 (EX.) S.N. 023-8067 TO (PROP.) S.N. 023-8072  
 (EX.) S.N. 023-8307 TO (PROP.) S.N. 023-2019

**TRAFFIC DATA**

	LEG A	LEG B
2019 ADT =	950	1,250
PV% =	85.3%	84.0%
SU% =	6.3%	3.2%
MU% =	8.4%	12.8%

**TRAFFIC DATA LOCATIONS**  
 LEG "A" = IL 49 FROM EDGAR/VERMILION COUNTY LINE TO US 36  
 LEG "B" = IL 49 FROM US 36 TO 1800TH RD N. OF BROCTON

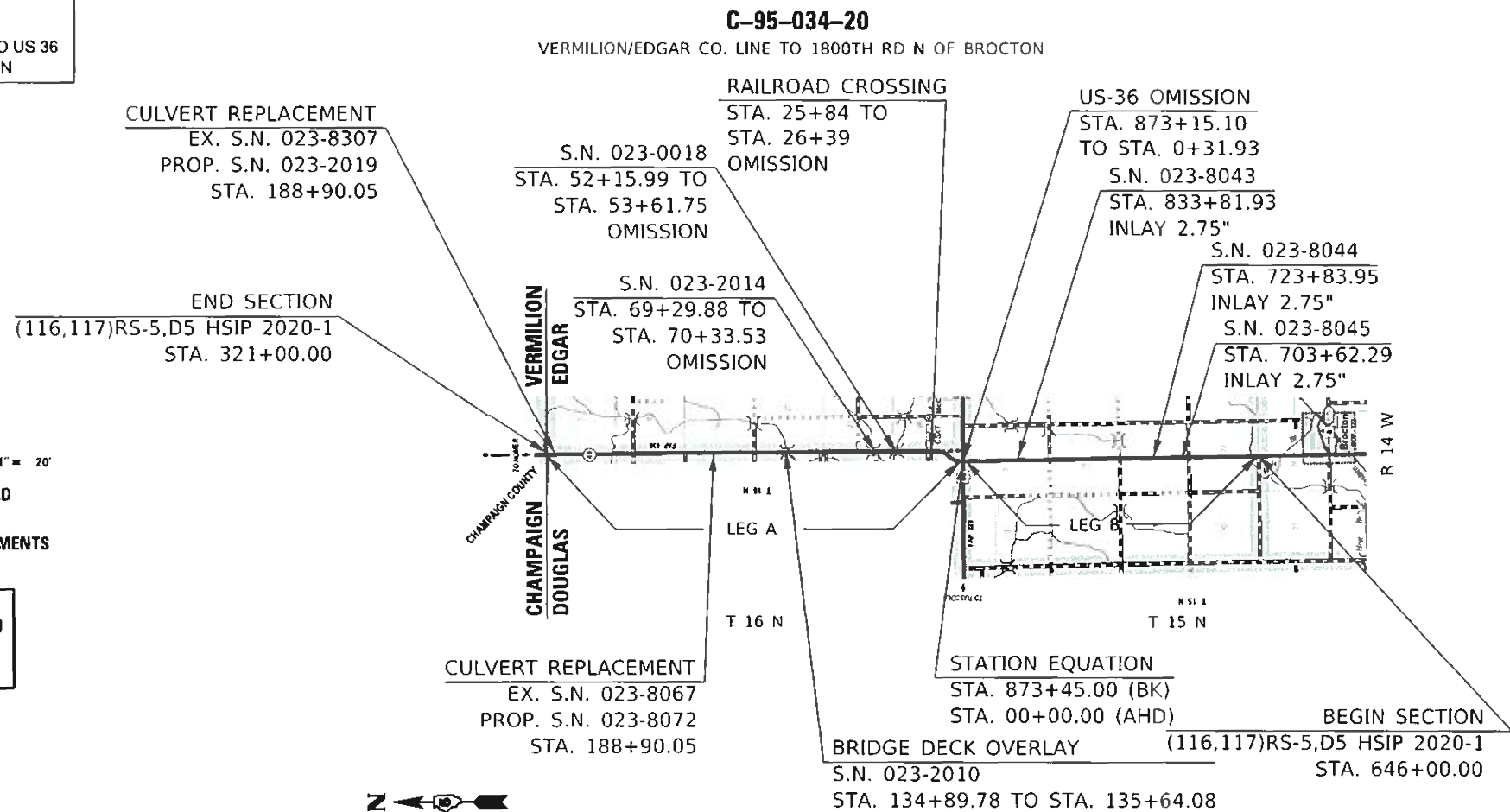
**TOWNSHIP:**  
**YOUNG AMERICA, NEWMAN,  
 AND SHILOH**



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: JASON W. STULTS**  
**SQUAD LEADER: RYAN T. CARROLL**  
**DESIGNER: TYLER J. PIERSON**  
**AARON B. FARNHAM**  
**PHONE: (217)-465-4181**  
**CONTRACT NO. 70D74**



GROSS LENGTH = 54845.00 FT. = 10.387 MILE  
 NET LENGTH = 54478.76 FT. = 10.318 MILE



# INDEX OF SHEETS

DESCRIPTION	SHEET NO.
COVER SHEET	1
INDEX OF SHEETS & LISTS OF HIGHWAY STANDARDS & COMMITMENTS	2
GENERAL NOTES	3
SUMMARY OF QUANTITIES	4 to 10
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SCHEDULE OF QUANTITIES	20 to 43
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US 36 & IL-49 INTERSECTION STRIPING DETAIL	64
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S.N. 023-0018 PROFILE CORRECTION STRINGLINE LIMITS	70
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HEADWALL EXTENSION DETAILS	87 to 88
TRAFFIC BARRIER TERMINAL TYPE 6A (MODIFIED) MOUNTING DETAIL	89
GUARDRAIL DETAILS	90 to 94
RAISED REFLECTIVE PAVEMENT MARKERS DETAIL	95
WIDTH RESTRICTION MAP DETAILS	96 to 97
PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)	98 to 101
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SURVEY MARKER VAULT	103
SURVEY MARKERS TYPE 1 & 2 (SPECIAL)	104
CROSS-SECTIONS	105 to 224

# LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	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
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-02	DELINEATORS
642006	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701316-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

# COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

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	DRAWN -	REVISED -
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PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS & LIST OF STANDARDS  
& COMMITMENTS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	2
CONTRACT NO. 70D74				

\*\*{116,117}RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR

REV. 4/23/20









# SUMMARY OF QUANTITIES

	3P - STP	STRUCTURE - STP	NEW SHOULDERS/RUMBLE STRIP - HSIP		
LOCATION OF WORK:	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 646+00.00 STA. 321+00.00 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 0+31.93 STA. 20+66.52 DOUGLAS CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 134+89.78 STA. 135+64.08 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 646+00.00 STA. 321+00.00 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 0+31.93 STA. 20+66.52 DOUGLAS CO
FUNDING BREAKOUT:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	90% FED / 10% STATE	90% FED / 10% STATE
CONSTRUCTION TYPE CODE:	0005	0005	0059	0021	0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY QUANTITY	ROADWAY QUANTITY	S.N. 023-2010 QUANTITY	SHOULDER QUANTITY	SHOULDER QUANTITY
50300300	PROTECTIVE COAT	SQ YD	268.00			268.00		
50800105	REINFORCEMENT BARS	POUND	980.00				910.00	70.00
51500100	NAME PLATES	EACH	2.00	2.00				
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2.00	2.00				
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2.00	2.00				
54003000	CONCRETE BOX CULVERTS	CU YD	6.60				6.10	0.50
54011202	PRECAST CONCRETE BOX CULVERTS 12' X 2'	FOOT	96.00	96.00				
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1.00	1.00				
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	174	174				
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	400.00	400.00				
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	472.50			472.50	
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	700.00			700.00	
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4.00			4.00	
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8.00			8.00	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	18.00			18.00	
* DENOTES SPECIALTY ITEM								

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PLOT DATE = 3/25/2020	CHECKED -	REVISIONS -
	DATE -	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	6
CONTRACT NO. 70D74				

# SUMMARY OF QUANTITIES

	3P - STP	STRUCTURE - STP	NEW SHOULDERS/RUMBLE STRIP - HSIP		
LOCATION OF WORK:	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 646+00.00 STA. 321+00.00 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 0+31.93 STA. 20+66.52 DOUGLAS CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 134+89.78 STA. 135+64.08 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 646+00.00 STA. 321+00.00 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 0+31.93 STA. 20+66.52 DOUGLAS CO
FUNDING BREAKOUT:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	90% FED / 10% STATE	90% FED / 10% STATE
CONSTRUCTION TYPE CODE:	0005	0005	0059	0021	0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY QUANTITY	ROADWAY QUANTITY	S.N. 023-2010 QUANTITY	SHOULDER QUANTITY	SHOULDER QUANTITY
63200310	GUARDRAIL REMOVAL	FOOT	1,637.00				1,637.00	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	104,002.00				101,236.00	2,766.00
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	60.00				60.00	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3.00				3.00	
* 66901001	REGULATED SUBSTANCES PRECONSTRUCTION PLAN	L SUM	1.00				1.00	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1.00				1.00	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DAY	6.00				6.00	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	7.00	2.80	0.70		2.80	0.70
67100100	MOBILIZATION	L SUM	1.00	0.40	0.10		0.40	0.10
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1.00			1.00		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.00	0.40	0.10		0.40	0.10
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.00			1.00		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.00	0.40	0.10		0.40	0.10
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1.00	0.50			0.50	
* DENOTES SPECIALTY ITEM								

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PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	=	224	7
			CONTRACT NO. 70D74	
ILLINOIS   FED. AID PROJECT				

\*\*(116,117)RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR

REV. 4/23/20

# SUMMARY OF QUANTITIES

	3P - STP	STRUCTURE - STP	NEW SHOULDERS/RUMBLE STRIP - HSIP		
LOCATION OF WORK:	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 646+00.00 STA. 321+00.00 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 0+31.93 STA. 20+66.52 DOUGLAS CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 134+89.78 STA. 135+64.08 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 646+00.00 STA. 321+00.00 EDGAR CO	FAP 836 (IL-49) MINOR ARTERIAL RURAL STA. 0+31.93 STA. 20+66.52 DOUGLAS CO
FUNDING BREAKOUT:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	90% FED / 10% STATE	90% FED / 10% STATE
CONSTRUCTION TYPE CODE:	0005	0005	0059	0021	0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY QUANTITY	ROADWAY QUANTITY	S.N. 023-2010 QUANTITY	SHOULDER QUANTITY	SHOULDER QUANTITY
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.00			1.00		
70106700	TEMPORARY RUMBLE STRIPS	EACH	6.00			6.00		
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.00	1.00				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	22,432.00	21,576.00	856.00			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5,593.00	5,382.00	211.00			
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	216.00	108.00	108.00			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	143,740.00	136,013.00	7,727.00			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	585.00	281.00	304.00			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	325.00	150.00	175.00			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	170.00	84.00	86.00			
*	72501000	TERMINAL MARKER DIRECT APPLIED	14.00				14.00	
*	72501100	TERMINAL MARKER - POST MOUNTED	4.00				4.00	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	216.00	108.00	108.00			
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	4,445.00	2,018.00	2,427.00			
* DENOTES SPECIALTY ITEM								

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

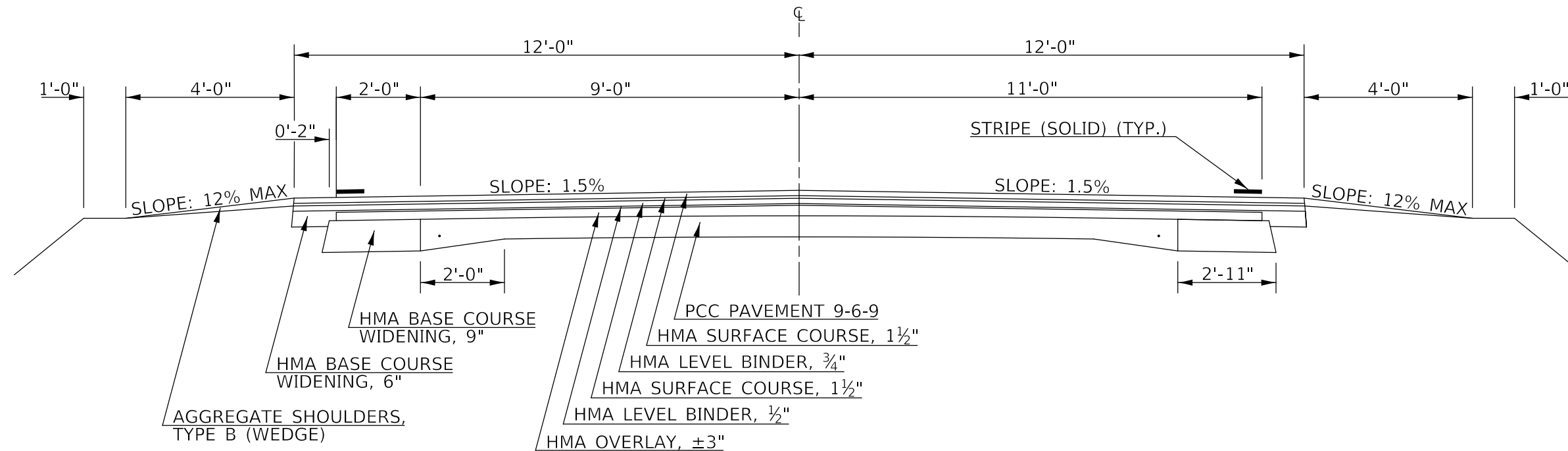
SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	8
			CONTRACT NO. 70D74	



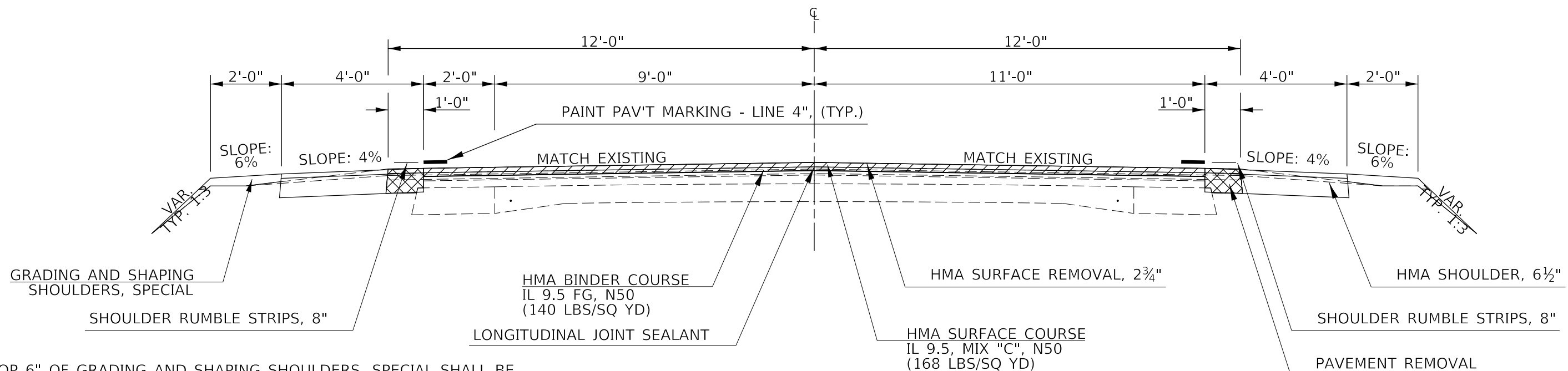


**EXISTING TYPICAL CROSS-SECTION (A)**  
 STA. 646+00.00 TO STA. 865+80.00 (B)



HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"

**PROPOSED TYPICAL CROSS-SECTION (1)**  
 STA. 646+00.00 TO STA. 865+80.00 (2)



TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

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 OFFICE: \\OFFICE  
 DATE: 3/24/2020

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PLOT DATE = 3/24/2020	CHECKED -	REVISION -
	DATE -	REVISION -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL-49 TYPICAL CROSS-SECTIONS**

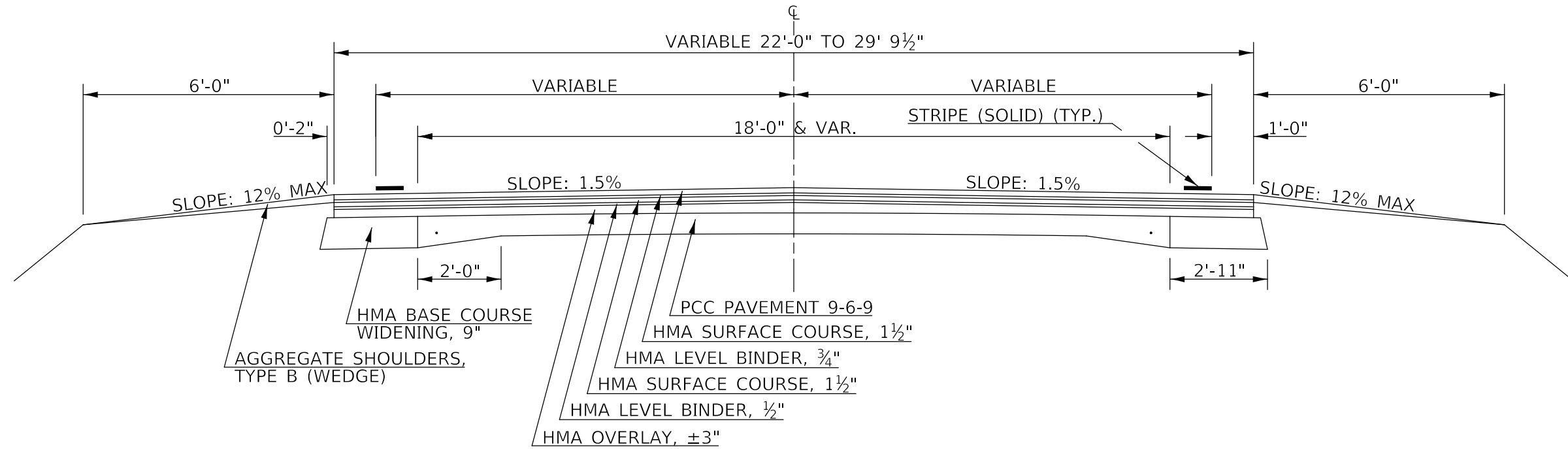
SCALE: N.T.S. SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	11
CONTRACT NO. 70D74				



**EXISTING TYPICAL CROSS-SECTION (B)**

(A) STA. 865+80.00 TO STA. 873+45.00 (BK) STA. EQ.  
 STA. EQ. (AH) STA. 0+00.00 TO STA. 2+00.00 (C)

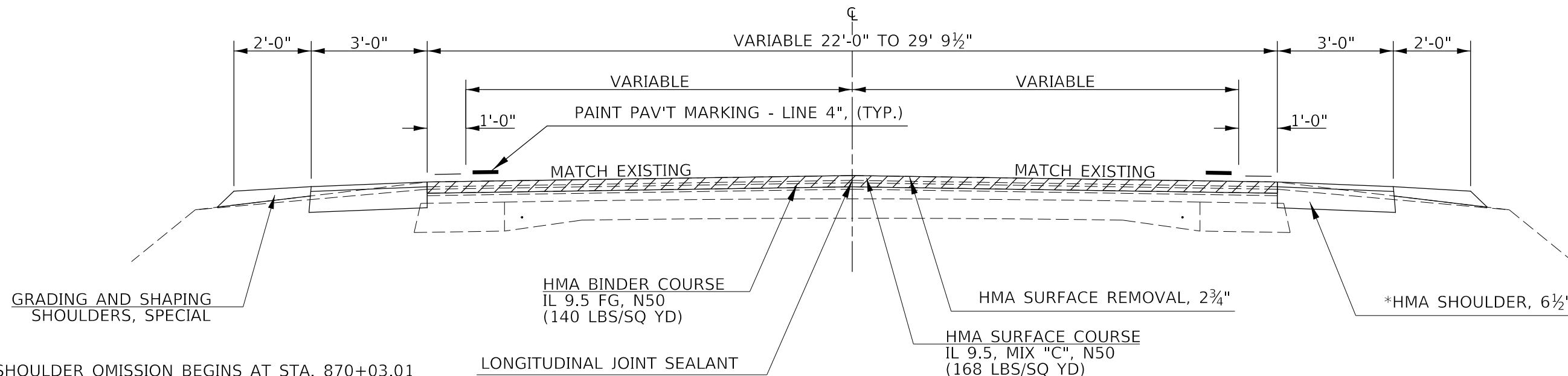


**PROPOSED TYPICAL CROSS-SECTION (2)**

(1) STA. 865+80.00 TO STA. 873+15.10  
 STA. 0+31.93 TO STA. 0+02.00 (3)

OMISSIONS FROM SECTION  
 INTERSECTION STA. 873+15.10 TO STA. 873+45.00 (BK) STA. EQ.  
 STA. EQ. (AH) STA. 0+00.00 TO STA. 0+31.93 INTERSECTION

HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"



\* RT SHOULDER OMISSION BEGINS AT STA. 870+03.01  
 LT SHOULDER OMISSION BEGINS AT STA. 871+53.80  
 TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

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 PROJECT: \\PROJECTS\057007\ACADD\Design\057007\24-11-Typical Cross-Sections 2.dgn

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PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

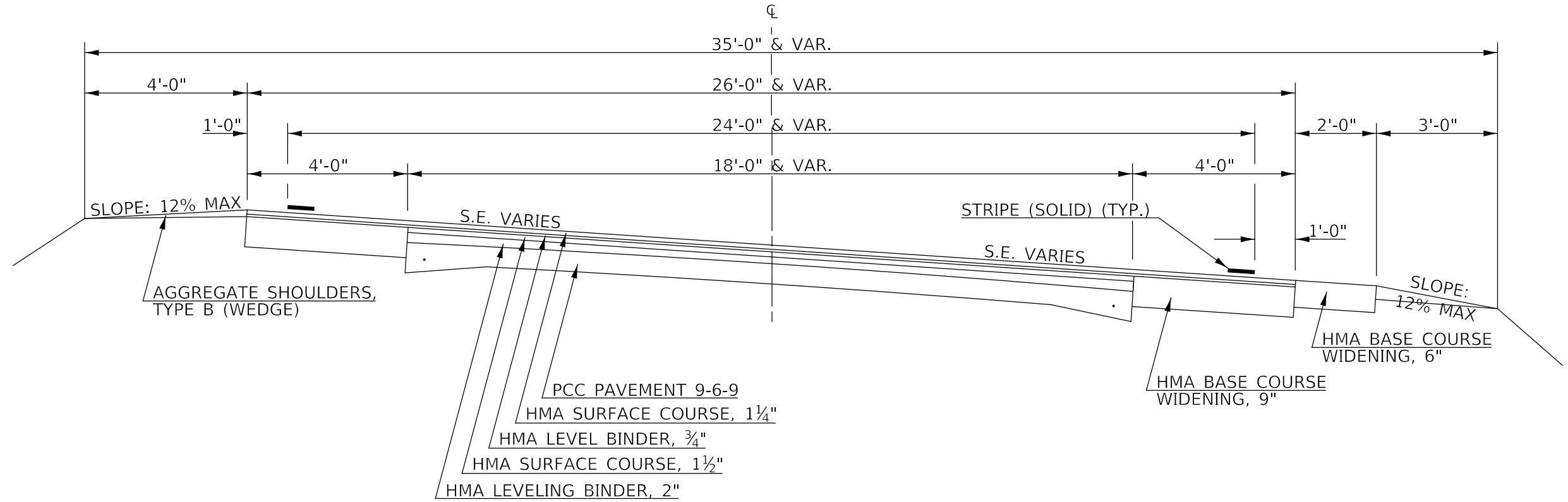
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL-49 TYPICAL CROSS-SECTIONS</b>			
SCALE: N.T.S.	SHEET 2	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	12
CONTRACT NO. 70D74				

**EXISTING TYPICAL CROSS-SECTION (C)**

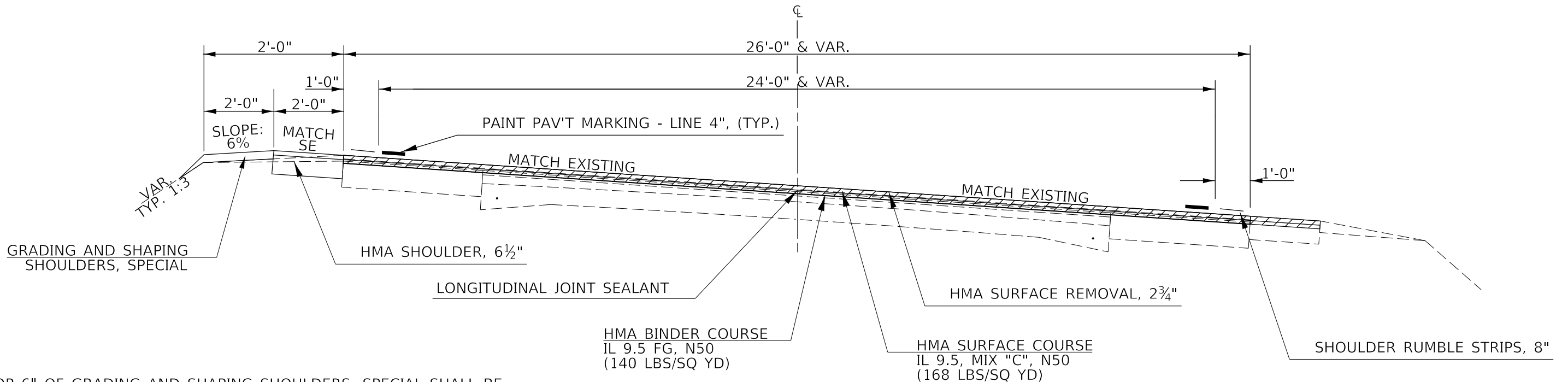
(B) STA. 2+00.00 TO STA. 4+30.00 (D)



HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"

**PROPOSED TYPICAL CROSS-SECTION (3)**

(2) STA. 2+00.00 TO STA. 4+30.00 (4)



TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

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PLOT DATE = 3/24/2020	CHECKED -	REVISD -
	DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 TYPICAL CROSS-SECTIONS

SCALE: N.T.S. SHEET 3 OF 9 SHEETS STA. TO STA.

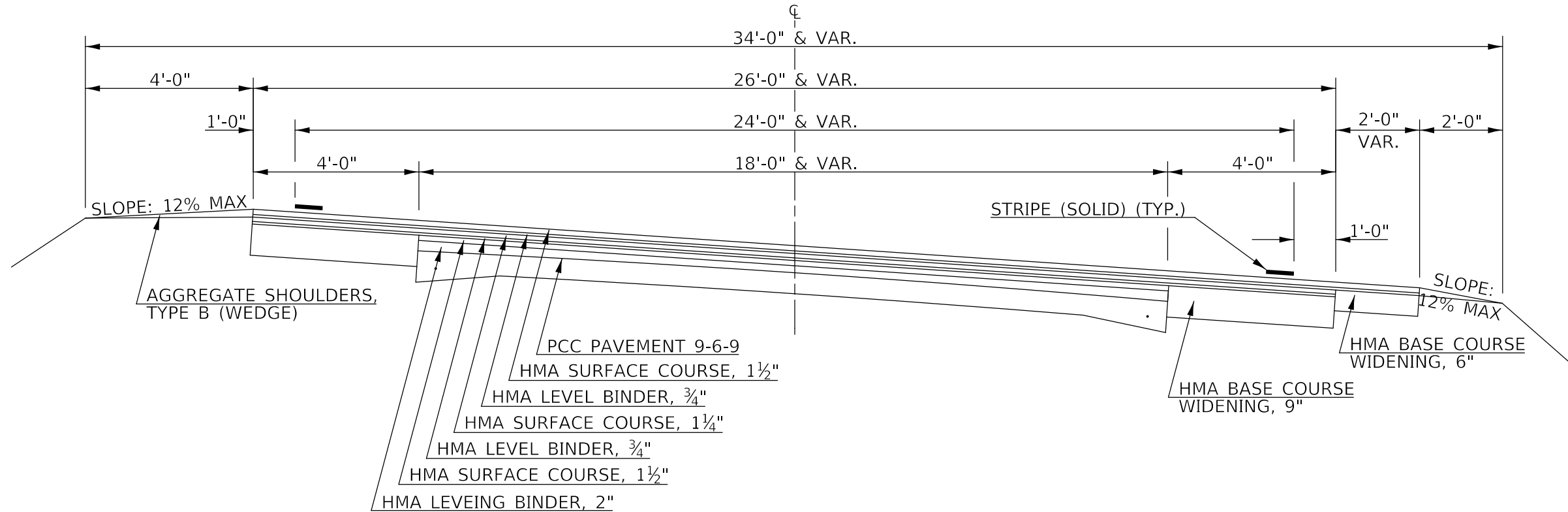
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	13

CONTRACT NO. 70D74

ILLINOIS FED. AID PROJECT

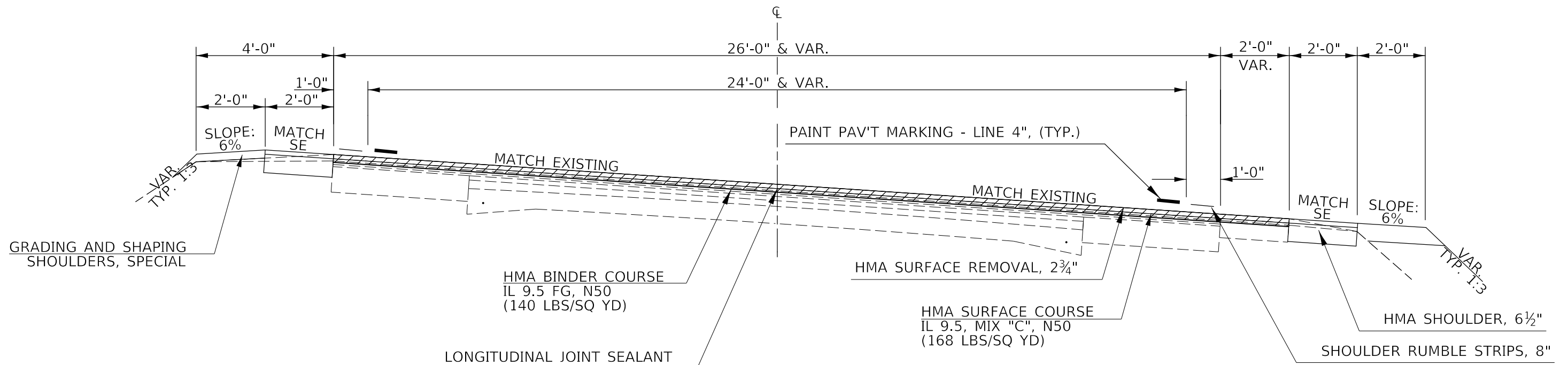
\*\* (116,117)RS-5, D5 HSIP 2020-1 \* DOUGLAS & EDGAR

**EXISTING TYPICAL CROSS-SECTION ④**  
 ③ STA. 4+30.00 TO STA. 9+67.10 ⑤



HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6½"

**PROPOSED TYPICAL CROSS-SECTION ④**  
 ③ STA. 4+30.00 TO STA. 9+67.10 ⑤



TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

MODEL: I:\MODEL\MHFE... FILE: MHFE... PROJECT: 057007\ACADD\BIDD\Documents\BIDD... OFFICE: \D:\... PROJECT: 057007\ACADD\BIDD\Design\057007\4-11-Typical\_Cross-Sections\_2.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 3,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-49 TYPICAL CROSS-SECTIONS**

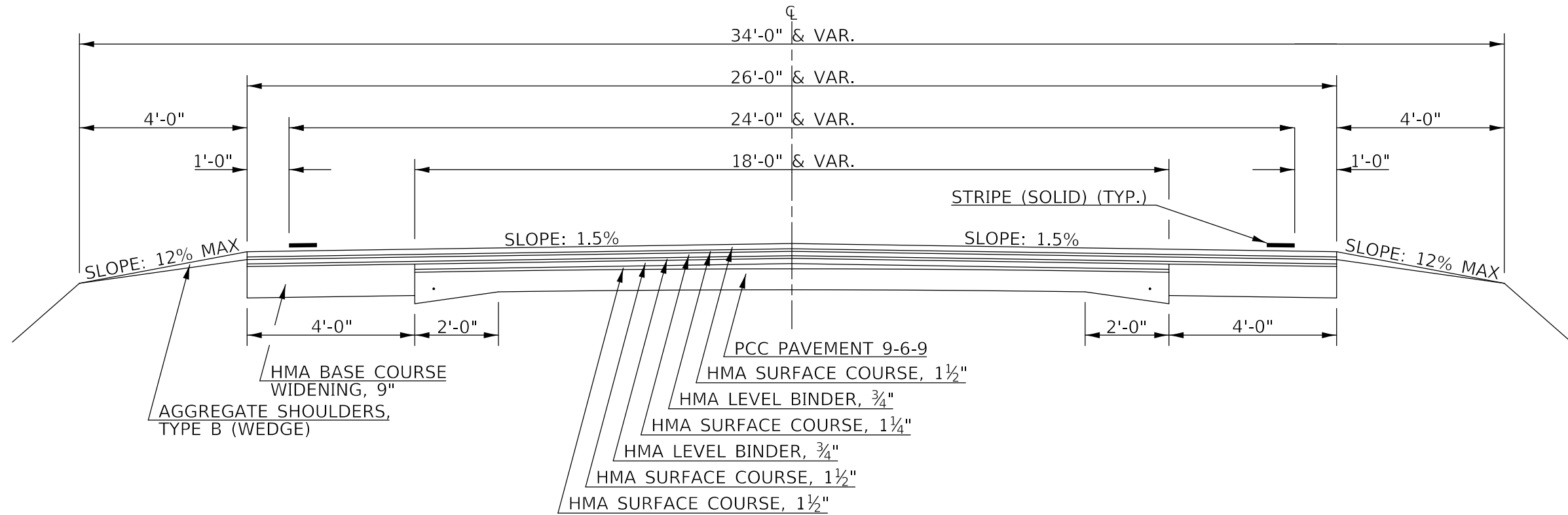
SCALE: N.T.S. SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	14

CONTRACT NO. 70D74

**EXISTING TYPICAL CROSS-SECTION (E)**

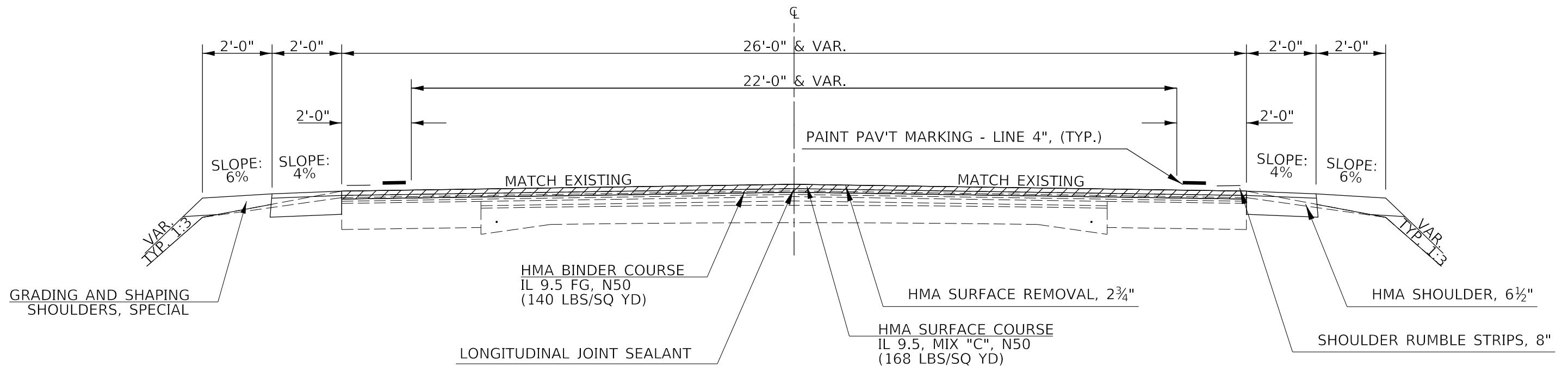
Ⓓ STA. 9+67.10 TO STA. 14+52.30 Ⓕ  
 Ⓕ STA. 22+20.20 TO STA. 26+05.00 Ⓖ (RAILROAD OMISSION)



HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"

**PROPOSED TYPICAL CROSS-SECTION (5)**

Ⓖ STA. 9+67.10 TO STA. 14+52.30 Ⓖ  
 Ⓖ STA. 22+20.20 TO STA. 26+05.00 Ⓗ (RAILROAD OMISSION)



TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

MODEL: I:\MODEL\MHFE... FILE: MHFE... PROJECT: 057007\ACADD\DATA\Design\057007\4-11-11\Typical\_Cross-Sections\_2.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 3,000' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/24/2020	DATE -	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL-49 TYPICAL CROSS-SECTIONS**

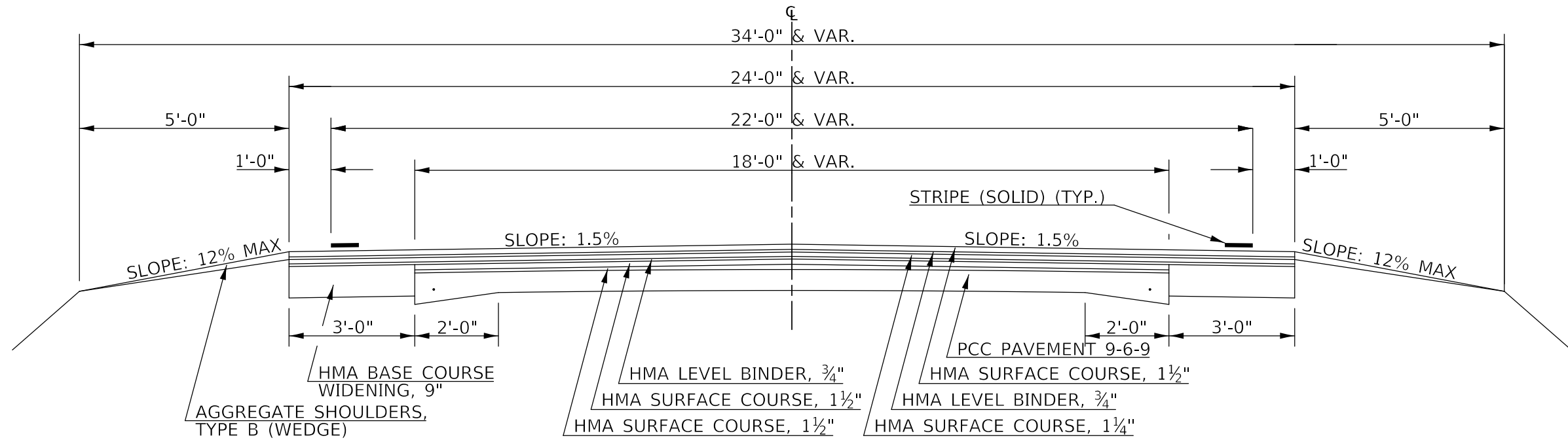
SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 836	SECTION **	COUNTY -	TOTAL SHEETS 224	SHEET NO. 15
			CONTRACT NO. 70D74	



**EXISTING TYPICAL CROSS-SECTION (G)**

(E) STA. 26+05.00 TO STA. 110+00.00 (H)  
 (H) STA. 119+00.00 TO STA. 290+00.00 (I)

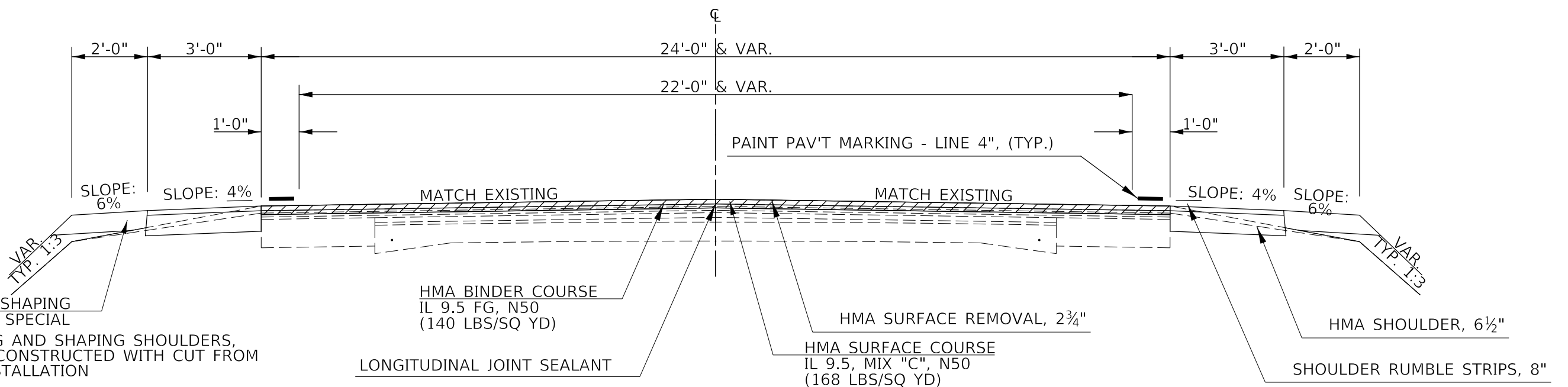


HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"

**PROPOSED TYPICAL CROSS-SECTION (7)**

(5) STA. 26+05.00 TO STA. 110+00.00 (8)  
 (8) STA. 119+00.00 TO STA. 290+00.00 (9)

**OMISSIONS FROM SECTION**  
 STRUCTURE STA. 69+65.35 TO STA. 69+94.66 STRUCTURE  
 STRUCTURE STA. 135+02.17 TO STA. 137+75.83 STRUCTURE



TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 3,000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

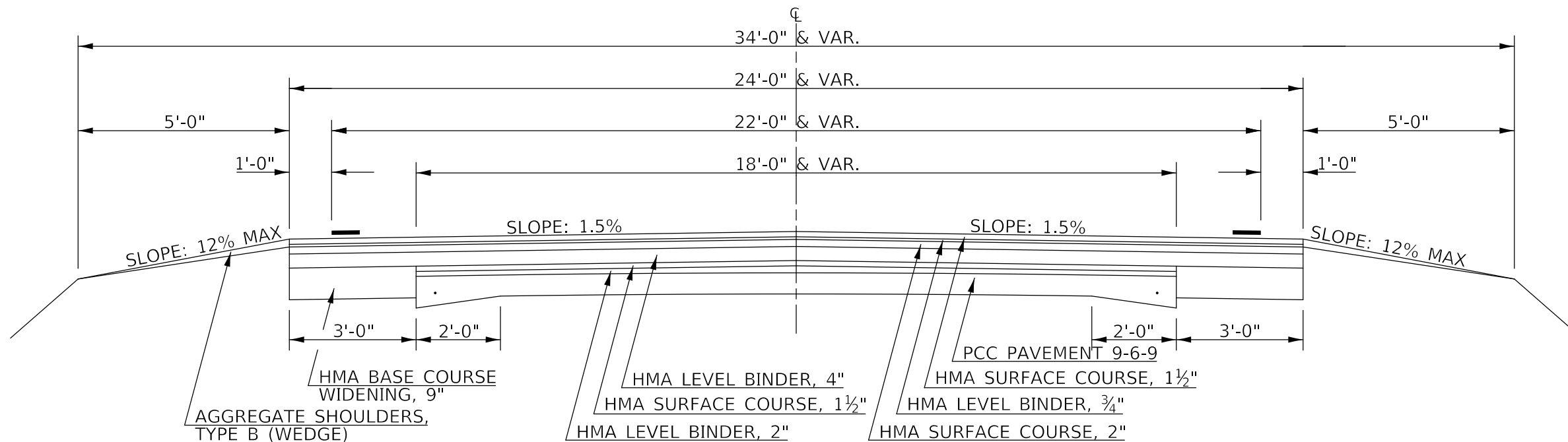
**IL-49 TYPICAL CROSS-SECTIONS**

SCALE: N.T.S. SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	17
CONTRACT NO. 70D74				

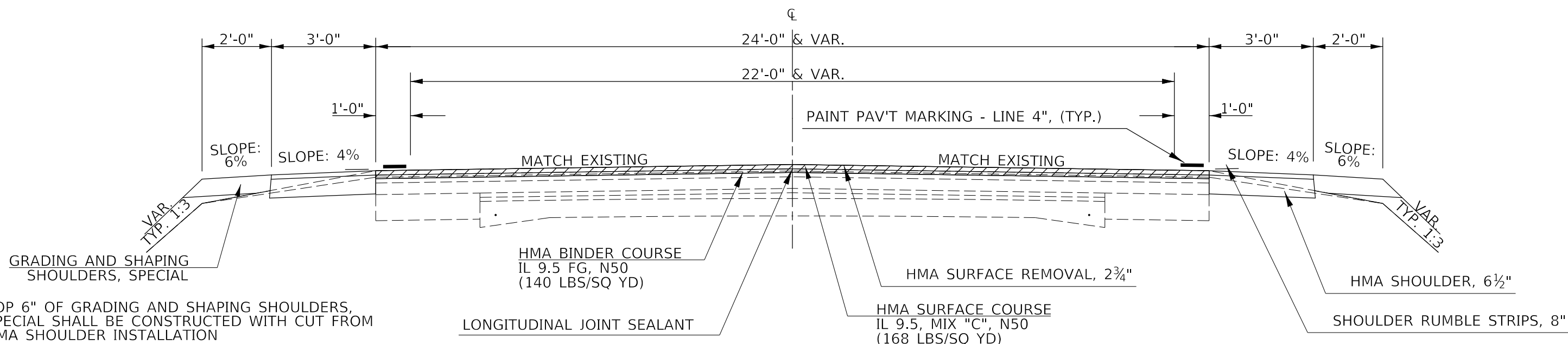
MODEL: s:\MODEL\MHMF... FILE: s:\MHMF... \Projects\057007\ACADD\Drawings\057007\49-Typical\_Cross-Sections\_2.dgn

**EXISTING TYPICAL CROSS-SECTION (H)**  
 (C) STA. 110+00.00 TO STA. 119+00.00 (C)



HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"

**PROPOSED TYPICAL CROSS-SECTION (8)**  
 (7) STA. 110+00.00 TO STA. 119+00.00 (7)



TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

MODEL: 4-MODEL\MAR16  
 FILE: 4-Mar16-ProposedTypicalCrossSection.dwg  
 PROJECT: 057007\ACAD\Drawings\DOT-Office\Drawings\057007\4-Mar16-ProposedTypical Cross-Sections 2.dwg

USER NAME = PiersonTJ	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 3,0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/24/2020	DATE -	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

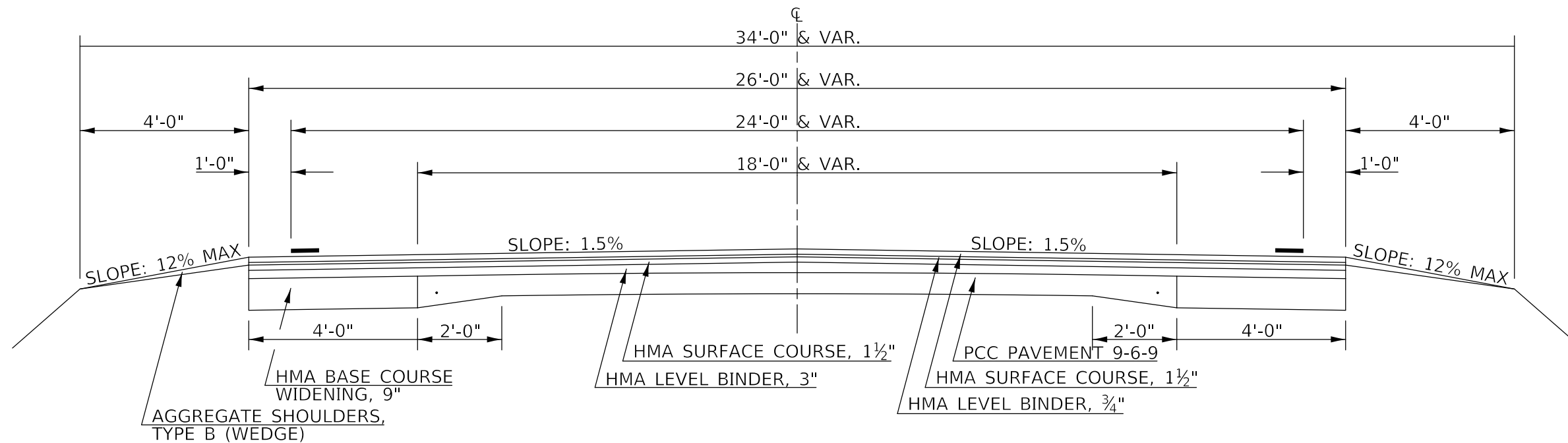
**IL-49 TYPICAL CROSS-SECTIONS**

SCALE: N.T.S. SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 836	SECTION **	COUNTY -	TOTAL SHEETS 224	SHEET NO. 18
			CONTRACT NO. 70D74	

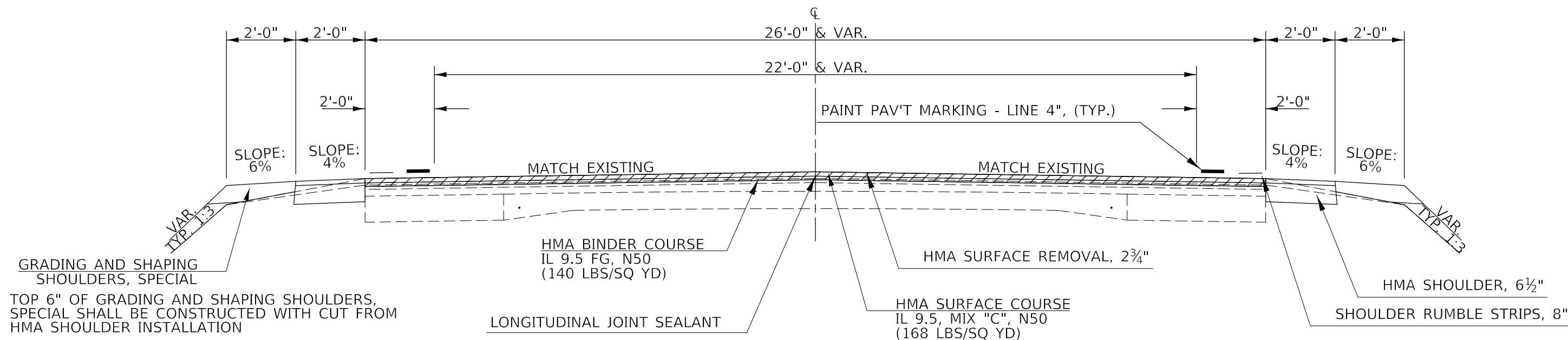


**EXISTING TYPICAL CROSS-SECTION ①**  
 ⑥ STA. 290+00.00 TO STA. 321+00.00



HMA SURFACE COURSE, (168 LBS, SQ YD) PLACED ON BOTH HMA BINDER COURSE AND HMA SHOULDER, 6 1/2"

**PROPOSED TYPICAL CROSS-SECTION ⑨**  
 ⑦ STA. 290+00.00 TO STA. 321+00.00



GRADING AND SHAPING SHOULDERS, SPECIAL  
 TOP 6" OF GRADING AND SHAPING SHOULDERS, SPECIAL SHALL BE CONSTRUCTED WITH CUT FROM HMA SHOULDER INSTALLATION

MODEL: 4-MODELNAME  
 FILE: 4-NAME.dwg  
 PROJECT: 116-117-RS-5-D5-HSIP-2020-1  
 OFFICE: 116-117-RS-5-D5-HSIP-2020-1  
 DESIGNED: 3/24/2020  
 DRAWN: 3/24/2020  
 CHECKED: 3/24/2020  
 DATE: 3/24/2020

USER NAME = PiersonTJ	DESIGNED -	REVISOR -
PLOT SCALE = 3,0000' / in.	DRAWN -	REVISOR -
PLOT DATE = 3/24/2020	CHECKED -	REVISOR -
	DATE -	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL-49 TYPICAL CROSS-SECTIONS**

SCALE: N.T.S. SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	19
			CONTRACT NO. 70D74	

# SCHEDULE OF QUANTITIES

NORTHBOUND EARTHWORK SCHEDULE																			
STA	STA	STA	LENGTH FT	OMISSION REASON	START CUT SQ FT	END CUT SQ FT	START RECLAIMED FILL SQ FT	END RECLAIMED FILL SQ FT	START EARTH FILL SQ FT	END EARTH FILL SQ FT	20200100 HSIP		25% SHRINKAGE OF EARTH EXCAVATION CU YD	20400800 HSIP		X0327584 HSIP			
											EDGAR	DOUGLAS		EDGAR	DOUGLAS	EDGAR	DOUGLAS		
											EARTH EXCAVATION CU YD	FURNISHED EXCAVATION CU YD		USED RECLAIMED EMBANKMENT CU YD	GRADING AND SHAPING SHOULDERS, SPECIAL FOOT				
646+00.00	TO	646+21.69	21.69		0.000	2.236	0.000	0.000	0.000	0.000	0.90		0.68		0.00		0.00	0.00	
646+21.69	TO	646+62.35	40.66	FE #1, HMA APRON	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00		0.00		0.00	0.00	
646+62.35	TO	650+00.00	337.65		2.228	1.838	0.000	0.822	0.000	0.000	25.42		19.07		0.00		5.14	337.65	
650+00.00	TO	660+00.00	1000.00		1.838	1.405	0.822	1.214	0.000	3.000	60.06		45.05		55.56		37.70	1000.00	
660+00.00	TO	670+00.00	1000.00		1.405	1.890	1.214	0.510	3.000	0.000	61.02		45.77		55.56		31.93	1000.00	
670+00.00	TO	670+44.20	44.20		1.890	2.177	0.510	0.000	0.000	0.000	3.33		2.50		0.00		0.42	44.20	
670+44.20	TO	670+88.45	44.25	FE #3, HMA APRON	0.000	0.000	0.000	0.247	0.000	0.000	0.00		0.00		0.00		0.20	44.25	
670+88.45	TO	673+05.16	216.71		2.081	2.231	0.247	0.000	0.000	0.000	17.30		12.98		0.00		0.99	216.71	
673+05.16	TO	673+33.67	28.51	FE #4, HMA APRON	0.000	0.000	0.000	0.370	0.000	0.000	0.00		0.00		0.00		0.20	28.51	
673+33.67	TO	680+00.00	666.33		2.061	1.770	0.370	0.937	0.000	0.000	47.27		35.45		0.00		16.13	666.33	
680+00.00	TO	684+20.70	420.70		1.770	2.227	0.937	0.000	0.000	0.000	31.14		23.36		0.00		7.30	420.70	
684+20.70	TO	684+49.12	28.42	FE #7, HMA APRON	0.000	0.000	0.000	0.019	0.000	0.000	0.00		0.00		0.00		0.01	28.42	
684+49.12	TO	686+56.03	206.91		2.189	1.633	0.019	1.265	0.000	0.346	14.64		10.98		1.33		4.92	206.91	
686+56.03	TO	686+90.11	34.08	FE #8, HMA APRON	0.000	0.000	1.265	0.000	0.346	0.000	0.00		0.00		0.22		0.80	34.08	
686+90.11	TO	690+00.00	309.89		2.249	1.887	0.000	0.728	0.000	0.000	23.74		17.81		0.00		4.18	309.89	
690+00.00	TO	699+62.04	962.04		1.887	2.258	0.728	0.000	0.000	0.000	73.85		55.39		0.00		12.97	962.04	
699+62.04	TO	700+25.18	63.14	E 1900TH RD	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00		0.00		0.00	0.00	
700+25.18	TO	710+00.00	974.82		2.137	1.686	0.113	1.214	0.000	0.052	69.01		51.76		0.94		23.96	974.82	
710+00.00	TO	720+00.00	1000.00		1.686	1.765	1.214	1.010	0.052	0.000	63.91		47.93		0.96		41.19	1000.00	
720+00.00	TO	730+00.00	1000.00		1.765	1.634	1.010	1.268	0.000	0.253	62.94		47.21		4.69		42.19	1000.00	
730+00.00	TO	739+74.18	974.18		1.634	2.023	1.268	0.464	0.253	0.000	65.97		49.48		4.56		31.25	974.18	
739+74.18	TO	740+00.80	26.62	FE #13, HMA APRON	0.000	0.000	0.464	0.262	0.000	0.000	0.00		0.00		0.00		0.36	26.62	
740+00.80	TO	748+33.89	833.09		2.065	2.245	0.262	0.000	0.000	0.000	66.49		49.87		0.00		4.04	833.09	
748+33.89	TO	748+64.65	30.76	FE #15	0.000	0.000	0.000	0.650	0.000	0.000	0.00		0.00		0.00		0.37	30.76	
748+64.65	TO	750+00.00	135.35		2.125	1.844	0.650	0.723	0.000	0.000	9.95		7.46		0.00		3.44	135.35	
750+00.00	TO	753+02.70	302.70		1.844	2.257	0.723	0.000	0.000	0.000	22.99		17.24		0.00		4.05	302.70	
753+02.70	TO	753+65.78	63.08	E 2000TH RD	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00		0.00		0.00	0.00	
753+65.78	TO	760+00.00	634.22		2.131	1.670	0.139	1.227	0.000	0.359	44.64		33.48		4.22		16.04	634.22	
760+00.00	TO	764+92.96	492.96		1.670	2.263	1.227	0.000	0.000	0.000	35.90		26.93		0.00		11.20	492.96	
764+92.96	TO	765+23.37	30.41	FE #16, HMA APRON	0.000	0.000	0.000	0.798	0.000	0.475	0.00		0.00		0.27		0.45	30.41	
765+23.37	TO	770+00.00	476.63		1.954	1.451	0.798	1.241	0.475	2.697	30.05		22.54		28.00		18.00	476.63	
770+00.00	TO	779+72.39	972.39		1.451	2.206	1.241	0.000	2.697	0.000	65.85		49.39		48.57		22.35	972.39	
779+72.39	TO	780+00.60	28.21	FE #18, HMA APRON	0.000	0.000	0.000	0.243	0.000	0.000	0.00		0.00		0.00		0.13	28.21	
780+00.60	TO	787+75.78	775.18		2.097	2.224	0.243	0.010	0.000	0.000	62.03		46.52		0.00		3.63	775.18	
787+75.78	TO	788+08.85	33.07	FE #20, HMA APRON	0.000	0.000	0.010	0.192	0.000	0.000	0.00		0.00		0.00		0.12	33.07	
788+08.85	TO	790+00.00	191.15		2.118	1.951	0.192	0.490	0.000	0.000	14.40		10.80		0.00		2.41	191.15	
790+00.00	TO	800+00.00	1000.00		1.951	1.781	0.490	1.040	0.000	0.057	69.11		51.83		1.06		28.33	1000.00	
800+00.00	TO	806+54.14	654.14		1.871	0.000	1.040	0.000	0.057	0.000	22.66		17.00		0.69		12.60	654.14	
806+54.14	TO	807+16.46	62.32	E 2100TH RD	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00		0.00		0.00	0.00	
807+16.46	TO	810+00.00	283.54		1.968	1.722	0.000	1.165	0.000	0.053	19.38		14.54		0.28		6.12	283.54	
810+00.00	TO	820+00.00	1000.00		1.722	2.037	1.165	0.497	0.053	0.004	69.61		52.21		1.06		30.78	1000.00	
820+00.00	TO	820+26.04	26.04		2.037	1.946	1.165	0.184	0.004	0.000	1.92		1.44		0.00		0.65	26.04	
820+26.04	TO	820+58.15	32.11	FE #24, HMA APRON	0.000	0.000	0.184	0.603	0.000	0.000	0.00		0.00		0.00		0.47	32.11	
820+58.15	TO	830+00.00	941.85		2.006	1.571	0.603	1.304	0.000	0.278	62.39		46.79		4.85		33.26	941.85	
830+00.00	TO	834+04.03	404.03		1.571	1.951	0.603	0.641	0.000	0.016	26.35		19.76		0.12		9.31	404.03	
834+04.03	TO	834+31.87	27.84	FE #26, HMA APRON	0.000	0.000	0.641	0.641	0.016	0.016	0.00		0.00		0.02		0.66	27.84	
834+31.87	TO	840+00.00	568.13		1.951	1.665	0.641	1.210	0.016	0.000	38.04		28.53		0.17		19.47	568.13	
840+00.00	TO	850+00.00	1000.00		1.655	1.533	1.210	1.128	0.000	0.000	59.04		44.28		0.00		43.30	1000.00	
850+00.00	TO	858+43.23	843.23		1.533	2.224	1.128	0.003	0.000	0.000	58.67		44.00		0.00		17.66	843.23	
858+43.23	TO	858+72.84	29.61	FE #28, HMA APRON	0.000	0.000	0.003	0.556	0.000	0.000	0.00		0.00		0.00		0.31	29.61	
858+72.84	TO	860+00.00	127.16		1.999	1.860	0.556	0.734	0.000	0.000	9.09		6.82		0.00		3.04	127.16	
860+00.00	TO	870+03.01	1003.01		1.860	0.000	0.734	0.000	0.000	0.000	34.55		25.91		0.00		13.63	1003.01	
870+03.01	TO	873+45.00	341.99	US 36	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00		0.00		0.00	0.00	
STA. EQN 873+45.00 (BK) = 0+00 (AH)																			
+00.00	TO	4+36.61	436.61	US 36	0.000	0.000	0.000	0.000	0.000	0.000			0.00		0.00		0.00	0.00	
4+36.61	TO	9+67.20	530.59		1.527	1.479	0.098	0.264	0.000	0.000			29.54		22.16		3.56	530.59	
NORTHBOUND SUB-TOTALS=											1,443.61	29.54	1,104.86	213.13	0.00	571.22	22,152.12	530.59	

MATERIAL REMOVAL REQUIRED FOR SHOULDER INSTALLATION INCLUDED IN THE COST OF PAVEMENT REMOVAL.  
20200100, 20400800, X0327584 QUANTITIES ON SHEETS 20 TO 25

MODEL: I:\MODEL\MHES  
FILE: MHES\_Plan\Illinois\gcp\WDDOT\Documents\DOT\_Offices\Illinet\5\Projects\057007\ACADD\Drawings\057007\24-NB-Schedule.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 1 OF 24 SHEETS STA. TO STA.

F.A.P. RTE. 836	SECTION **	COUNTY -	TOTAL SHEETS 224	SHEET NO. 20
CONTRACT NO. 70D74				

ILLINOIS FED. AID PROJECT \*\* (116,117)RS-5, D5 HSIP 2020-1 \* DOUGLAS & EDGAR



# SCHEDULE OF QUANTITIES

NORTHBOUND EARTHWORK SCHEDULE																		
STA	STA	STA	LENGTH FT	OMISSION REASON	START CUT SQ FT	END CUT SQ FT	START RECLAIMED FILL SQ FT	END RECLAIMED FILL SQ FT	START EARTH FILL SQ FT	END EARTH FILL SQ FT	20200100 HSIP		25% SHRINKAGE OF EARTH EXCAVATION CU YD	20400800 HSIP		USED RECLAIMED EMBANKMENT CU YD	X0327584 HSIP	
											EDGAR	DOUGLAS		EDGAR	DOUGLAS		EDGAR	DOUGLAS
											EARTH EXCAVATION CU YD			FURNISHED EXCAVATION CU YD			GRADING AND SHAPING SHOULDERS, SPECIAL FOOT	
213+00.14		213+22.48	22.34	FE #49, HMA APRON	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
213+22.48	TO	213+59.46	36.98	FE #50, HMA	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
213+59.46	TO	213+98.32	38.86		2.230	2.230	0.000	0.000	0.000	0.000	3.21		2.41	0.00		0.00	0.00	
213+98.32	TO	214+35.14	36.82	FE #51, HMA	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
214+35.14	TO	220+00.00	564.86		2.244	2.236	0.000	0.000	0.000	0.000	46.86		35.15	0.00		0.00	0.00	
220+00.00	TO	220+07.83	7.83		2.236	2.149	0.000	0.086	0.000	0.000	0.64		0.48	0.00		0.01	7.83	
220+07.83	TO	220+38.26	30.43	FE #52, HMA APRON	0.000	0.000	0.086	0.086	0.000	0.000	0.00		0.00	0.00		0.10	30.43	
220+38.26	TO	221+56.81	118.55		2.149	0.000	0.086	0.000	0.000	0.000	4.72		3.54	0.00		0.19	118.55	
221+56.81	TO	221+81.02	24.21	FE #53, HMA APRON	0.000	0.000	0.086	0.000	0.000	0.000	0.00		0.00	0.00		0.04	24.21	
221+81.02	TO	227+37.49	556.47		0.000	2.174	0.000	0.092	0.000	0.000	22.40		16.80	0.00		0.95	556.47	
227+37.49	TO	227+66.10	28.61	FE #55, HMA APRON	0.000	0.000	0.092	0.563	0.000	0.000	0.00		0.00	0.00		0.35	28.61	
227+66.10	TO	230+00.00	233.90		1.943	1.548	0.563	1.306	0.000	0.168	15.12		11.34	0.73		8.10	233.90	
230+00.00	TO	240+00.00	1000.00		1.548	2.013	1.306	0.334	0.168	0.000	65.94		49.46	3.11		30.37	1000.00	
240+00.00	TO	240+59.07	59.07		2.013	2.065	1.306	0.254	0.168	0.000	4.46		3.35	0.18		1.71	59.07	
240+59.07	TO	240+87.20	28.13	FE #56, HMA APRON	0.000	0.000	0.254	0.254	0.000	0.000	0.00		0.00	0.00		0.26	28.13	
240+87.20	TO	250+00.00	912.80		2.065	1.646	0.254	1.080	0.000	0.000	62.73		47.05	0.00		22.55	912.80	
250+00.00	TO	253+81.91	381.91		1.646	0.000	1.080	0.000	0.000	0.000	11.64		8.73	0.00		7.64	381.91	
253+81.91	TO	254+37.10	55.19	E 2675TH RD	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
254+37.10	TO	260+00.00	562.90		2.225	1.685	0.020	1.216	0.000	0.243	40.76		30.57	2.53		12.88	562.90	
260+00.00	TO	270+00.00	1000.00		1.685	1.731	1.216	1.138	0.243	0.061	63.26		47.45	5.63		43.59	1000.00	
270+00.00	TO	280+00.00	1000.00		1.173	2.067	1.138	0.049	0.061	0.109	60.00		45.00	3.15		21.99	1000.00	
280+00.00	TO	280+50.60	50.60		2.067	2.183	0.049	0.000	0.109	0.000	3.98		2.99	0.10		0.05	50.60	
280+50.60	TO	280+80.15	29.55	FE #60, HMA APRON	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
280+80.15	TO	287+23.38	643.23		2.183	2.090	0.000	0.212	0.000	0.000	50.90		38.18	0.00		2.53	643.23	
287+23.38	TO	287+49.11	25.73	FE #62, HMA APRON	0.000	0.000	0.212	0.212	0.000	0.000	0.00		0.00	0.00		0.20	25.73	
287+49.11	TO	290+00.00	250.89		2.090	2.090	0.212	0.212	0.000	0.000	19.42		14.57	0.00		1.97	250.89	
290+00.00	TO	300+00.00	1000.00		1.635	1.551	1.135	1.259	0.148	0.062	59.00		44.25	3.89		44.33	1000.00	
300+00.00	TO	302+63.61	263.61		1.551	2.187	1.259	0.000	0.062	0.000	18.25		13.69	0.30		6.15	263.61	
302+63.61	TO	303+04.35	40.74	PE #8, HMA	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
303+04.35	TO	306+97.26	392.91		1.955	2.195	0.327	0.094	0.000	0.000	30.20		22.65	0.00		3.06	392.91	
306+97.26	TO	307+34.33	37.07	FE #65, HMA APRON	0.000	0.000	0.094	0.046	0.000	0.000	0.00		0.00	0.00		0.10	37.07	
307+34.33	TO	310+00.00	265.67		2.181	1.329	0.046	1.298	0.000	0.310	17.27		12.95	1.53		6.61	265.67	
310+00.00	TO	320+00.00	1000.00		1.329	1.925	1.298	0.844	0.310	0.525	60.26		45.20	15.46		39.67	1000.00	
320+00.00	TO	320+50.41	50.41		1.925	2.245	0.844	0.000	0.525	0.000	3.89		2.92	0.49		0.79	50.41	
320+50.41	TO	320+88.83	38.42	E 2800TH RD	0.000	0.000	0.000	0.000	0.000	0.000	0.00		0.00	0.00		0.00	0.00	
320+88.83	TO	321+00.00	11.17		2.245	2.245	0.000	0.000	0.000	0.000	0.93		0.70	0.00		0.00	0.00	
NORTHBOUND-TOTALS =											3,294.84	91.74	2,539.94	337.34	0.51	1,168.86	49,457.75	1,563.39
NORTHBOUND-ROUNDED TOTALS =											3,295.00	90.00	2,540.00	335.00	0.00	1,168.75	49,460.00	1,565.00

MATERIAL REMOVAL REQUIRED FOR SHOULDER INSTALLATION INCLUDED IN THE COST OF PAVEMENT REMOVAL.  
20200100, 20400800, X0327584 QUANTITIES ON SHEETS 20 TO 25

MODEL: I:\MODEL\MHFS  
FILE: MHFS\_Plan\IllinoisData\Illinois.pwd\DOT\Documents\DOT - Office\Bldgct - 5\Projects\057007\ACADD\Bldgct\Design\057007\North-Schedule.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						836	**	-	224	22
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 70D74				
PLOT DATE = 3/25/2020	DATE -	REVISED -						SCALE:	SHEET 3	OF 24	SHEETS	STA.



# SCHEDULE OF QUANTITIES

SOUTHBOUND EARTHWORK SCHEDULE (CONT.)																			
STA	STA	STA	LENGTH FT	OMISSION REASON	START CUT SQ FT	END CUT SQ FT	START RECLAIMED FILL SQ FT	END RECLAIMED FILL SQ FT	START EARTH FILL SQ FT	END EARTH FILL SQ FT	20200100 HSIP		25% SHRINKAGE OF EARTH EXCAVATION CU YD	20400800 HSIP		USED RECLAIMED EMBANKMENT CU YD	X0327584 HSIP		
											EDGAR	DOUGLAS		EDGAR	DOUGLAS		EDGAR	DOUGLAS	
												EARTH EXCAVATION CU YD	FURNISHED EXCAVATION CU YD	GRADING AND SHAPING SHOULDERS, SPECIAL FOOT					
870+00.00	TO	871+53.80	153.80		2.008	0.000	0.444	0.000	0.000	0.000			5.720		4.29	0.00		1.26	153.80
871+53.80	TO	873+45.00	191.20	US 36	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00		0.00		0.00
STA. EQN 873+45.00 (BK) = 0+00 (AH)																			
+00.00	TO	2+57.80	257.80	US 36	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00		0.00		0.00
2+57.80	TO	3+56.06	98.26		0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00		0.00		0.00
3+56.06	TO	4+18.61	62.55	PE #2, HMA	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00		0.00		0.00
4+18.61	TO	10+00.00	581.39		1.527	1.479	0.098	0.264	0.000	0.000			32.360		24.27	0.00	3.90		581.39
10+00.00	TO	14+51.98	451.98		1.479	1.510	0.264	0.167	0.000	0.000			25.020		18.77	0.00	3.61		451.98
14+51.98	TO	22+20.20	768.22	CURVE 5045 2 6	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
22+20.20	TO	24+34.05	213.85		1.454	1.590	0.000	0.000	0.000	0.000			12.050		9.04	0.00	0.00		0.00
24+34.05	TO	24+97.14	63.09	PE #3, HMA	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
24+97.14	TO	26+06.52	109.38		1.518	1.724	0.206	1.091	0.000	2.676			6.570		4.93	5.42	2.63	109.38	
26+06.52	TO	26+16.55	10.03	RAILROAD	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
26+16.55	TO	28+53.37	236.82		1.724	0.000	1.091	0.000	2.676	0.000			7.560		5.67	11.74	4.78		236.82
28+53.37	TO	29+03.52	50.15	E. CO RD 1000N	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
29+03.52	TO	30+00.00	96.48		2.081	2.014	0.220	0.000	0.000	0.000			7.320		5.49	0.00	0.39		96.48
30+00.00	TO	40+00.00	1000.00		2.014	2.005	0.000	0.386	0.000	0.000			74.430		55.82	0.00	7.15		1000.00
40+00.00	TO	41+93.52	193.52		2.005	2.028	0.386	0.347	0.000	0.000			14.450		10.84	0.00	2.63		193.52
41+93.52	TO	42+23.05	29.53	FE #33, HMA APRON	0.000	0.000	0.347	0.365	0.000	0.000			0.000		0.00	0.00	0.39		29.53
42+23.05	TO	50+00.00	776.95		2.022	1.944	0.365	0.785	0.000	1.392			57.060		42.80	20.03	16.55		776.95
50+00.00	TO	50+84.96	84.96		1.944	0.000	0.785	0.000	1.392	0.000			3.060		2.30	2.19	1.24		84.96
50+84.96	TO	55+23.01	438.05	S.N. 023-0018	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
55+23.01	TO	60+00.00	476.99		1.812	1.916	0.000	0.602	0.000	0.000			32.930		24.70	0.00	5.32		476.99
60+00.00	TO	66+43.71	643.71		1.916	0.000	0.602	0.000	0.000	0.000			22.840		17.13	0.00	7.18		643.71
66+43.71	TO	73+94.95	751.24	S.N. 023-2014	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
73+94.95	TO	80+00.00	605.05		2.239	1.919	0.023	0.615	0.000	0.000			46.590		34.94	0.00	7.15		605.05
80+00.00	TO	81+56.38	156.38		1.919	2.226	0.615	0.002	0.000	0.000			12.000		9.00	0.00	1.79		156.38
81+56.38	TO	81+84.65	28.27	FE #36, HMA APRON	0.000	0.000	0.002	0.002	0.000	0.000			0.000		0.00	0.00	0.00		0.00
81+84.65	TO	90+00.00	815.35		2.226	1.932	0.002	0.632	0.000	0.000			62.780		47.09	0.00	9.57		815.35
90+00.00	TO	94+78.90	478.90		1.932	1.887	0.632	0.743	0.000	0.000			33.870		25.40	0.00	12.19		478.90
94+78.90	TO	95+04.67	25.77	FE #37, HMA APRON	0.000	0.000	0.743	0.857	0.000	0.047			0.000		0.00	0.02	0.76		25.77
95+04.67	TO	100+00.00	495.33		1.852	1.991	0.857	0.454	0.047	0.000			35.250		26.44	0.43	12.03		495.33
100+00.00	TO	107+99.53	799.53		1.991	1.942	0.857	0.574	0.000	0.000			58.230		43.67	0.00	21.19		799.53
107+99.53	TO	108+48.37	48.84	E CO RD 1150N	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
108+48.37	TO	110+00.00	151.63		1.946	1.965	0.563	0.498	0.000	0.000			10.980		8.24	0.00	2.98		151.63
110+00.00	TO	120+00.00	1000.00		1.965	2.032	0.498	0.316	0.000	0.000			74.020		55.52	0.00	15.07		1000.00
120+00.00	TO	120+76.20	76.20		2.032	2.111	0.316	0.177	0.000	0.000			5.850		4.39	0.00	0.70		76.20
120+76.20	TO	121+02.04	25.84	FE #40, HMA APRON	0.000	0.000	0.177	0.133	0.000	0.000			0.000		0.00	0.00	0.15		25.84
121+02.04	TO	122+20.09	118.05		2.022	2.088	0.133	0.199	0.000	0.000			8.980		6.74	0.00	0.73		118.05
122+20.09	TO	122+83.72	63.63	FE #43, HMA	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
122+83.72	TO	130+00.00	716.28		1.891	1.930	0.580	0.557	0.000	0.000			50.680		38.01	0.00	15.08		716.28
130+00.00	TO	134+89.61	489.61		1.930	0.000	0.557	0.000	0.000	0.000			17.500		13.13	0.00	5.05		489.61
134+89.61	TO	135+63.91	74.30	S.N. 023-2010	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
135+63.91	TO	136+23.19	59.28	FE #45, HMA APRON	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
136+23.19	TO	140+00.00	376.81		0.000	1.787	0.000	1.066	0.000	0.075			12.470		9.35	0.52	7.44		376.81
140+00.00	TO	150+00.00	1000.00		1.787	1.717	1.066	1.121	0.075	0.072			64.890		48.67	2.72	40.50		1000.00
150+00.00	TO	160+00.00	1000.00		1.717	2.095	1.121	0.304	0.072	0.000			70.590		52.94	1.33	26.39		1000.00
160+00.00	TO	161+09.61	109.61		2.095	0.000	0.304	0.000	0.000	0.000			4.250		3.19	0.00	0.62		109.61
161+09.61	TO	161+58.81	49.20	E CR 1250 N	0.000	0.000	0.000	0.000	0.000	0.000			0.000		0.00	0.00	0.00		0.00
161+58.81	TO	170+00.00	841.19		2.118	1.622	0.174	1.268	0.000	0.003			58.260		43.70	0.05	22.46		841.19
170+00.00	TO	174+60.11	460.11		1.622	1.755	1.268	1.111	0.003	0.066			27.030		20.27	0.55	19.04		432.16
174+60.11	TO	180+00.00	539.89	FE #46, HMA APRON	0.000	0.000	1.111	1.149	0.066	0.082			0.000		0.00	1.26	19.26		460.11
SOUTHBOUND SUB-TOTALS=												935.43	57.38	744.61	47.08	0.00	314.00	14515.83	1033.37

MATERIAL REMOVAL REQUIRED FOR SHOULDER INSTALLATION INCLUDED IN THE COST OF PAVEMENT REMOVAL.  
20200100, 20400800, X0327584 QUANTITIES ON SHEETS 20 TO 25

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USER NAME = PiersonTJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -					836	**	*	224	24
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	SCALE:		SHEET 5 OF 24 SHEETS	STA.	TO STA.		CONTRACT NO. 70D74		
PLOT DATE = 3/25/2020	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

# SCHEDULE OF QUANTITIES

## SOUTHBOUND EARTHWORK SCHEDULE (CONT.)

STA	TO STA	STA	LENGTH FT	OMISSION REASON	START CUT SQ FT	END CUT SQ FT	START RECLAIMED FILL SQ FT	END RECLAIMED FILL SQ FT	START EARTH FILL SQ FT	END EARTH FILL SQ FT	20200100 HSIP		25% SHRINKAGE OF EARTH EXCAVATION CU YD	20400800 HSIP		USED RECLAIMED EMBANKMENT CU YD	X0327584 HSIP	
											EDGAR	DOUGLAS		EDGAR	DOUGLAS		EDGAR	DOUGLAS
											EARTH EXCAVATION CU YD			FURNISHED EXCAVATION CU YD			GRADING AND SHAPING SHOULDERS, SPECIAL FOOT	
180+00.00	TO	180+54.91	54.91		1.991	2.187	0.533	0.059	0.000	0.000		4.250	3.19	0.00	0.60	54.91		
180+54.91	TO	180+80.95	26.04	PE #5, HMA	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
180+80.95	TO	181+02.86	21.91		2.187	2.227	0.059	0.000	0.000	0.000		1.790	1.34	0.00	0.02	21.91		
181+02.86	TO	181+24.59	21.73	PE #6, HMA	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
181+24.59	TO	187+81.68	657.09		2.227	2.056	0.000	0.217	0.000	0.000		52.120	39.09	0.00	2.64	657.09		
187+81.68	TO	187+93.53	11.85	FE #47, HMA APRON	0.000	0.000	0.217	0.217	0.000	0.000		0.000	0.00	0.00	0.10	11.85		
187+93.53	TO	190+00.00	206.47		2.056	1.908	0.217	0.786	0.000	0.000		15.160	11.37	0.00	3.83	206.47		
190+00.00	TO	200+00.00	1000.00		1.908	1.807	0.786	1.007	0.000	0.014		68.800	51.60	0.26	33.20	1000.00		
200+00.00	TO	210+00.00	1000.00		1.807	1.926	0.786	0.558	0.014	0.000		69.130	51.85	0.26	24.89	1000.00		
210+00.00	TO	214+09.82	409.82		1.926	2.244	0.558	0.000	0.000	0.000		31.650	23.74	0.00	4.23	409.82		
214+09.82	TO	214+58.73	48.91	CR 1350N	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
214+58.73	TO	220+00.00	541.27		2.138	2.236	0.144	0.000	0.000	0.000		43.840	32.88	0.00	1.44	541.27		
220+00.00	TO	224+45.16	445.16		2.236	1.813	0.000	0.859	0.000	0.000		33.380	25.04	0.00	7.08	445.16		
224+45.16	TO	224+73.37	28.21	FE #54, HMA APRON	0.000	0.000	0.859	1.000	0.000	0.000		0.000	0.00	0.00	0.97	28.21		
224+73.37	TO	230+00.00	526.63		1.746	1.548	1.000	1.306	0.000	0.168		32.120	24.09	1.64	22.49	526.63		
230+00.00	TO	240+00.00	1000.00		1.548	2.013	1.306	0.334	0.168	0.000		65.940	49.46	3.11	30.37	1000.00		
240+00.00	TO	240+68.77	68.77		2.013	2.065	0.334	0.254	0.000	0.000		5.190	3.89	0.00	0.75	68.77		
240+68.77	TO	240+85.09	16.32	FE #57, HMA APRON	0.000	0.000	0.254	0.254	0.000	0.000		0.000	0.00	0.00	0.15	16.32		
240+85.09	TO	250+00.00	914.91		2.065	1.646	0.254	1.080	0.000	0.000		62.870	47.15	0.00	22.60	914.91		
250+00.00	TO	253+86.36	386.36		1.646	0.000	1.080	0.000	0.000	0.000		11.780	8.84	0.00	7.73	386.36		
253+86.36	TO	254+37.29	50.93	E CR 1425N	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
254+37.29	TO	260+00.00	562.71		2.225	1.685	0.020	1.216	0.000	0.243		40.740	30.56	2.53	12.88	562.71		
260+00.00	TO	267+27.24	727.24		1.685	1.742	1.216	1.132	0.243	0.062		46.150	34.61	4.11	31.62	727.24		
267+27.24	TO	267+55.12	27.88	FE #59, HMA APRON	0.000	0.000	1.132	1.192	0.062	0.135		0.000	0.00	0.10	1.20	27.88		
267+55.12	TO	270+00.00	244.88		1.673	1.731	1.192	1.138	0.135	0.061		15.440	11.58	0.89	10.57	244.88		
270+00.00	TO	280+00.00	1000.00		1.731	2.067	1.138	0.494	0.061	0.109		70.330	52.75	3.15	30.22	1000.00		
280+00.00	TO	280+53.30	53.30		2.067	2.183	0.494	0.000	0.109	0.000		4.190	3.14	0.11	0.49	53.30		
280+53.30	TO	280+78.60	25.30	FE #61, HMA APRON	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
280+78.60	TO	289+35.60	857.00		2.183	1.689	0.000	1.014	0.000	0.003		61.450	46.09	0.05	16.09	857.00		
289+35.60	TO	289+85.61	50.01	FE #63, HMA APRON	0.000	0.000	1.014	1.135	0.003	0.148		0.000	0.00	0.14	1.99	50.01		
289+85.61	TO	290+00.00	14.39		1.635	1.635	1.135	1.135	0.148	0.148		0.870	0.65	0.08	0.60	14.39		
290+00.00	TO	298+89.61	889.61		1.635	1.478	1.135	1.324	0.148	0.464		51.280	38.46	10.08	40.51	889.61		
298+89.61	TO	299+31.14	41.53	FE #64, HMA	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
299+31.14	TO	300+00.00	68.86		1.508	1.551	1.322	1.259	0.221	0.062		3.900	2.93	0.36	3.29	68.86		
300+00.00	TO	307+10.99	710.99		1.551	2.181	1.259	0.046	0.062	0.000		49.140	36.86	0.82	17.18	710.99		
307+10.99	TO	307+44.15	33.16	FE #66	0.000	0.000	0.046	0.046	0.000	0.000		0.000	0.00	0.00	0.06	33.16		
307+44.15	TO	310+00.00	255.85		2.181	1.329	0.046	1.298	0.000	0.310		16.630	12.47	1.47	6.37	255.85		
310+00.00	TO	320+00.00	1000.00		1.329	1.925	1.298	0.844	0.310	0.525		60.260	45.20	15.46	39.67	1000.00		
320+00.00	TO	320+47.87	47.87		1.925	2.299	0.844	0.000	0.525	0.000		3.740	2.81	0.47	0.75	47.87		
320+47.87	TO	320+93.41	45.54	E 1550N RD	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.00	0.00	0.00	0.00		
320+93.41	TO	321+00.00	6.59		2.245	2.245	0.000	0.000	0.000	0.000		0.550	0.41	0.00	0.00	6.59		
SOUTHBOUND-TOTALS =											3,279.59	57.38	2,502.73	270.28	0.00	1,329.90	50,403.90	1,033.37
SOUTHBOUND-ROUNDED TOTALS =											3,280.00	55.00	2,502.75	270.00	0.00	1,330.00	50,405.00	1,035.00
COUNTY-TOTALS =											6,575.00	145.00	5,042.75	605.00	0.00	2,498.75	99,865.00	2,600.00
TOTALS =											6,720.00		5,042.75	605.00		2,498.75	102,465.00	

MATERIAL REMOVAL REQUIRED FOR SHOULDER INSTALLATION INCLUDED IN THE COST OF PAVEMENT REMOVAL.  
20200100, 20400800, X0327584 QUANTITIES ON SHEETS 20 TO 25

EARTHWORK AT CULVERT				
STA	SIDE	AREA SQ FT	DEPTH FT	20200100 EARTH EXCAVATION CU YD
217+64.31	RT	257	0.5	5
218+15.78	LT	708	0.5	15
TOTAL =				20.00

QUANTITIES AND LIMITS TO BE DETERMINED BY THE ENGINEER

MODEL: I:\MODEL\MHFS... PROJECTS\057007\ACADD\DATA\Design\057007\24-HS-Schedule.dgn

USER NAME = PiersonTJ DRAWN - PLOT SCALE = 40.0000 ' / in. PLOT DATE = 3/25/2020	DESIGNED - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b> SCALE: SHEET 6 OF 24 SHEETS STA. TO STA.	F.A.P. RTE. 836 SECTION ** COUNTY * TOTAL SHEETS 224 SHEET NO. 25 CONTRACT NO. 70D74	ILLINOIS FED. AID PROJECT ** (116,117)RS-5, D5 HSIP 2020-1 * DOUGLAS & EDGAR
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# SCHEDULE OF QUANTITIES

NORTHBOUND SEEDING SCHEDULE																				
STA	STA	STA	LENGTH FT	OMISSION REASON	SEEDING LENGTH START FT	SEEDING LENGTH END FT	SEEDING LENGTH AVG FT	NB AREA SQ FT	25000210		25000400		25000500		25000600		25100115		28000250	
									HSIP		HSIP		HSIP		HSIP		HSIP		HSIP	
									EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS
								SEEDING CLASS 2A ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH METHOD 2 ACRE	TEMP EROSION CONTROL SEEDING POUND							
646+00.00	TO	646+34.01	34.01		0.00	2.00	1.00	34.01	0.001	0.09	0.09	0.09	0.001	0.40						
646+34.01	TO	646+52.75	18.74	FE #1	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
646+52.75	TO	650+00.00	347.25		2.00	3.52	2.76	958.41	0.022	1.98	1.98	1.98	0.022	8.80						
650+00.00	TO	660+00.00	1000.00		3.52	11.15	7.34	7,340.00	0.169	15.21	15.21	15.21	0.169	67.60						
660+00.00	TO	670+00.00	1000.00		11.15	2.54	6.85	6,850.00	0.157	14.13	14.13	14.13	0.157	62.80						
670+00.00	TO	670+54.84	54.84		2.54	2.19	2.37	129.97	0.003	0.27	0.27	0.27	0.003	1.20						
670+54.84	TO	670+79.35	24.51	FE #3	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
670+79.35	TO	673+14.15	234.80		2.46	2.00	2.23	523.60	0.012	1.08	1.08	1.08	0.012	4.80						
673+14.15	TO	673+26.67	12.52	FE #4	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
673+26.67	TO	680+00.00	673.33		3.03	3.49	3.26	2,195.06	0.050	4.50	4.50	4.50	0.050	20.00						
680+00.00	TO	684+26.48	426.48		3.49	2.00	2.75	1,172.82	0.027	2.43	2.43	2.43	0.027	10.80						
684+26.48	TO	684+42.71	16.23	FE #7	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
684+42.71	TO	686+59.90	217.19		3.15	5.46	4.31	936.09	0.021	1.89	1.89	1.89	0.021	8.40						
686+59.90	TO	686+82.65	22.75	FE #8	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
686+82.65	TO	690+00.00	317.35		2.00	3.50	2.75	872.71	0.020	1.80	1.80	1.80	0.020	8.00						
690+00.00	TO	699+65.35	965.35		3.50	2.00	2.75	2,654.71	0.061	5.49	5.49	5.49	0.061	24.40						
699+65.35	TO	700+19.37	54.02	E 1900TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
700+19.37	TO	710+00.00	980.63		2.00	4.66	3.33	3,265.50	0.075	6.75	6.75	6.75	0.075	30.00						
710+00.00	TO	711+86.22	186.22		4.66	3.20	3.93	731.84	0.017	1.53	1.53	1.53	0.017	6.80						
711+86.22	TO	712+07.81	21.59	FE #10	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
712+07.81	TO	720+00.00	792.19		3.09	3.67	3.38	2,677.60	0.061	5.49	5.49	5.49	0.061	24.40						
720+00.00	TO	730+00.00	1000.00		3.67	4.84	4.26	4,260.00	0.098	8.82	8.82	8.82	0.098	39.20						
730+00.00	TO	739+79.87	979.87		4.84	3.33	4.09	4,007.67	0.092	8.28	8.28	8.28	0.092	36.80						
739+79.87	TO	739+94.87	15.00	FE #13	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
739+94.87	TO	748+40.86	845.99		3.25	3.16	3.21	2,715.63	0.062	5.58	5.58	5.58	0.062	24.80						
748+40.86	TO	748+57.56	16.70	FE #15	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
748+57.56	TO	750+00.00	142.44		2.00	3.13	2.57	366.07	0.008	0.72	0.72	0.72	0.008	3.20						
750+00.00	TO	753+06.44	306.44		3.13	2.20	2.67	818.19	0.019	1.71	1.71	1.71	0.019	7.60						
753+06.44	TO	753+61.79	55.35	E 2000TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
753+61.79	TO	760+00.00	638.21		2.21	9.84	6.03	3,848.41	0.088	7.92	7.92	7.92	0.088	35.20						
760+00.00	TO	764+96.95	496.95		9.84	2.40	6.12	3,041.33	0.070	6.30	6.30	6.30	0.070	28.00						
764+96.95	TO	765+17.41	20.46	FE #16	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
765+17.41	TO	770+00.00	482.59		7.46	10.48	8.97	4,328.83	0.099	8.91	8.91	8.91	0.099	39.60						
770+00.00	TO	779+80.59	980.59		10.48	2.00	6.24	6,118.88	0.140	12.60	12.60	12.60	0.140	56.00						
779+80.59	TO	779+94.17	13.58	FE #18	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
779+94.17	TO	787+83.27	789.10		4.09	2.00	3.05	2,406.76	0.055	4.95	4.95	4.95	0.055	22.00						
787+83.27	TO	788+05.27	22.00	FE #20	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
788+05.27	TO	790+00.00	194.73		2.13	2.80	2.47	480.98	0.011	0.99	0.99	0.99	0.011	4.40						
790+00.00	TO	800+00.00	1000.00		2.80	4.74	3.77	3,770.00	0.087	7.83	7.83	7.83	0.087	34.80						
800+00.00	TO	806+57.78	657.78		4.74	2.00	3.37	2,216.72	0.051	4.59	4.59	4.59	0.051	20.40						
806+57.78	TO	807+12.51	54.73	E 2100TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
807+12.51	TO	810+00.00	287.49		2.98	4.53	3.76	1,080.96	0.025	2.25	2.25	2.25	0.025	10.00						
810+00.00	TO	820+00.00	1000.00		4.53	4.20	4.37	4,370.00	0.100	9.00	9.00	9.00	0.100	40.00						
820+00.00	TO	820+36.86	36.86		4.20	4.20	4.20	154.81	0.004	0.36	0.36	0.36	0.004	1.60						
820+36.86	TO	820+49.94	13.08	FE #24	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
820+49.94	TO	830+00.00	950.06		3.64	4.59	4.12	3,914.25	0.090	8.10	8.10	8.10	0.090	36.00						
NORTHBOUND SUB-TOTALS=									1.795	0.000	161.550	0.000	161.550	0.000	161.550	0.000	1.795	0.000	718.000	0.000

25000210, 25000400, 25000500, 25000600, 25100115, 28000250 QUANTITIES ON SHEETS 26 TO 33

MODEL: 4\MODEL\MATFS  
FILE: MatFS\_Plan\Illinois\pwr\WIDOT\Documents\DOT\_Office\Drawings\Projects\0570D74\ACADD\Drawings\0570D74-NB-Seed-Schedule.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	836					**	*	224	26	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 70D74				
PLOT DATE = 3/25/2020	DATE -	REVISED -	SCALE: SHEET 7 OF 24 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		** (116,117)RS-5, D5 HSIP 2020-1 * DOUGLAS & EDGAR			



# SCHEDULE OF QUANTITIES

NORTHBOUND SEEDING SCHEDULE																				
STA	STA	STA	LENGTH FT	OMISSION REASON	SEEDING LENGTH START FT	SEEDING LENGTH END FT	SEEDING LENGTH AVG FT	NB AREA SQ FT	25000210		25000400		25000500		25000600		25100115		28000250	
									HSIP		HSIP		HSIP		HSIP		HSIP		HSIP	
									EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS
								SEEDING CLASS 2A ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH METHOD 2 ACRE	TEMP EROSION CONTROL SEEDING POUND							
120+00.00	TO	121+35.01	135.01		2.46	2.24	2.35	317.27	0.007	0.63	0.63	0.63	0.007	2.80						
121+35.01	TO	121+49.31	14.30	FE #41	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
121+49.31	TO	121+93.85	44.54		2.00	2.43	2.22	98.88	0.002	0.18	0.18	0.18	0.002	0.80						
121+93.85	TO	122+40.33	46.48	FE #42	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
122+40.33	TO	130+00.00	759.67		2.43	2.96	2.96	2,248.62	0.052	4.68	4.68	4.68	0.052	20.80						
130+00.00	TO	133+95.11	395.11		2.96	2.22	2.59	1,023.33	0.023	2.07	2.07	2.07	0.023	9.20						
133+95.11	TO	136+71.67	276.56	S.N. 023-2010	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
136+71.67	TO	140+00.00	328.33		4.14	4.76	4.45	1,461.07	0.034	3.06	3.06	3.06	0.034	13.60						
140+00.00	TO	150+00.00	1000.00		4.76	5.12	4.94	4,940.00	0.113	10.17	10.17	10.17	0.113	45.20						
150+00.00	TO	160+00.00	1000.00		5.12	2.86	3.99	3,990.00	0.092	8.28	8.28	8.28	0.092	36.80						
160+00.00	TO	161+06.84	106.84		2.86	2.74	2.80	299.15	0.007	0.63	0.63	0.63	0.007	2.80						
161+06.84	TO	161+57.04	50.20	2500N	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
161+57.04	TO	170+00.00	842.96		3.06	3.90	3.48	2,933.50	0.067	6.03	6.03	6.03	0.067	26.80						
170+00.00	TO	180+00.00	1000.00		3.90	3.27	3.59	3,590.00	0.082	7.38	7.38	7.38	0.082	32.80						
180+00.00	TO	182+23.39	223.39		3.27	2.00	2.64	589.75	0.014	1.26	1.26	1.26	0.014	5.60						
182+23.39	TO	182+58.60	35.21	PE #7	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
182+58.60	TO	187+78.95	520.35		2.00	2.67	2.34	1,217.62	0.028	2.52	2.52	2.52	0.028	11.20						
187+78.95	TO	187+97.58	18.63	FE #48	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
187+97.58	TO	190+00.00	202.42		3.57	3.73	3.65	738.83	0.017	1.53	1.53	1.53	0.017	6.80						
190+00.00	TO	200+00.00	1000.00		3.73	4.28	4.01	4,010.00	0.092	8.28	8.28	8.28	0.092	36.80						
200+00.00	TO	200+92.69	92.69		4.28	3.94	4.11	380.96	0.009	0.81	0.81	0.81	0.009	3.60						
200+92.69	TO	201+11.05	18.36	FE #49	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
201+11.05	TO	210+00.00	888.95		10.34	3.00	6.67	5,929.30	0.136	12.24	12.24	12.24	0.136	54.40						
210+00.00	TO	213+22.48	322.48		3.00	2.41	2.71	873.92	0.020	1.80	1.80	1.80	0.020	8.00						
213+22.48	TO	213+59.46	36.98	FE #50	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
213+59.46	TO	214+03.95	44.49		2.00	2.00	2.00	88.98	0.002	0.18	0.18	0.18	0.002	0.80						
214+03.95	TO	214+31.15	27.20	FE #51	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
214+31.15	TO	220+00.00	568.85		2.31	2.00	2.16	1,228.72	0.028	2.52	2.52	2.52	0.028	11.20						
220+00.00	TO	220+13.08	13.08		2.00	2.00	2.00	26.16	0.001	0.09	0.09	0.09	0.001	0.40						
220+13.08	TO	220+30.87	17.79	FE #52	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
220+30.87	TO	221+62.08	131.21		2.10	2.72	2.41	316.22	0.007	0.63	0.63	0.63	0.007	2.80						
221+62.08	TO	221+75.16	13.08	FE #53	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
221+75.16	TO	227+45.60	570.44		2.11	2.36	2.24	1,277.79	0.029	2.61	2.61	2.61	0.029	11.60						
227+45.60	TO	227+58.83	13.23	FE #55	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
227+58.83	TO	230+00.00	241.17		3.06	9.52	6.29	1,516.96	0.035	3.15	3.15	3.15	0.035	14.00						
230+00.00	TO	240+00.00	1000.00		9.52	2.52	6.02	6,020.00	0.138	12.42	12.42	12.42	0.138	55.20						
240+00.00	TO	240+64.11	64.11		2.52	2.24	2.38	152.58	0.004	0.36	0.36	0.36	0.004	1.60						
240+64.11	TO	240+80.67	16.56	FE #56	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
240+80.67	TO	250+00.00	919.33		2.49	3.49	2.99	2,748.80	0.063	5.67	5.67	5.67	0.063	25.20						
250+00.00	TO	253+81.91	381.91		3.49	2.46	2.98	1,138.09	0.026	2.34	2.34	2.34	0.026	10.40						
253+81.91	TO	254+37.10	55.19	E 2675TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
254+37.10	TO	260+00.00	562.90		2.25	5.97	4.11	2,313.52	0.053	4.77	4.77	4.77	0.053	21.20						
260+00.00	TO	266+05.39	605.39		5.97	3.39	4.68	2,833.23	0.065	5.85	5.85	5.85	0.065	26.00						
266+05.39	TO	266+38.17	32.78	FE #58	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.000	0.00						
266+38.17	TO	270+00.00	361.83		4.46	4.32	4.39	1,588.43	0.036	3.24	3.24	3.24	0.036	14.40						
NORTHBOUND SUB-TOTALS=									0.897	0.000	80.730	0.000	80.730	0.000	80.730	0.000	0.897	0.000	358.800	0.000

25000210, 25000400, 25000500, 25000600, 25100115, 28000250 QUANTITIES ON SHEETS 26 TO 33

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USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 9 OF 24 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	28
CONTRACT NO. 70D74				
ILLINOIS FED. AID PROJECT				

\*\* (116,117)RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR

# SCHEDULE OF QUANTITIES

NORTHBOUND SEEDING SCHEDULE																					
STA	STA	STA	LENGTH FT	OMISSION REASON	SEEDING LENGTH START FT	SEEDING LENGTH END FT	SEEDING LENGTH AVG FT	NB AREA SQ FT	25000210		25000400		25000500		25000600		25100115		28000250		
									HSIP		HSIP		HSIP		HSIP		HSIP		HSIP		
									EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR
								SEEDING CLASS 2A ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH METHOD 2 ACRE	TEMP EROSION CONTROL SEEDING POUND								
230+00.00	TO	240+00.00	1000.00		9.52	2.52	6.02	6,020.00	0.138		12.42		12.42		12.42		0.138		55.20		
240+00.00	TO	240+64.11	64.11		2.52	2.24	2.38	152.58	0.004		0.36		0.36		0.36		0.004		1.60		
240+64.11	TO	240+80.67	16.56	FE #56	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
240+80.67	TO	250+00.00	919.33		2.49	3.49	2.99	2,748.80	0.063		5.67		5.67		5.67		0.063		25.20		
250+00.00	TO	253+81.91	381.91		3.49	2.46	2.98	1,138.09	0.026		2.34		2.34		2.34		0.026		10.40		
253+81.91	TO	254+37.10	55.19	E 2675TH RD	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
254+37.10	TO	260+00.00	562.90		2.25	5.97	4.11	2,313.52	0.053		4.77		4.77		4.77		0.053		21.20		
260+00.00	TO	266+05.39	605.39		5.97	3.39	4.68	2,833.23	0.065		5.85		5.85		5.85		0.065		26.00		
266+05.39	TO	266+38.17	32.78	FE #58	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
266+38.17	TO	270+00.00	361.83		4.46	4.32	4.39	1,588.43	0.036		3.24		3.24		3.24		0.036		14.40		
270+00.00	TO	280+00.00	1000.00		4.32	6.03	5.18	5,180.00	0.119		10.71		10.71		10.71		0.119		47.60		
280+00.00	TO	280+53.41	53.41		6.03	5.94	5.99	319.93	0.007		0.63		0.63		0.63		0.007		2.80		
280+53.41	TO	280+74.28	20.87	FE #60	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
280+74.28	TO	287+23.00	648.72		5.60	2.75	4.18	2,711.65	0.062		5.58		5.58		5.58		0.062		24.80		
287+23.00	TO	287+43.79	20.79	FE #62	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
287+43.79	TO	290+00.00	256.21		2.84	6.02	4.43	1,135.01	0.026		2.34		2.34		2.34		0.026		10.40		
290+00.00	TO	300+00.00	1000.00		6.02	4.52	5.27	5,270.00	0.121		10.89		10.89		10.89		0.121		48.40		
300+00.00	TO	302+64.80	264.80		4.52	2.25	3.39	897.67	0.021		1.89		1.89		1.89		0.021		8.40		
302+64.80	TO	303+00.40	35.60	PE #8	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
303+00.40	TO	307+05.63	405.23		2.26	3.60	2.93	1,187.32	0.027		2.43		2.43		2.43		0.027		10.80		
307+05.63	TO	307+27.12	21.49	FE #65	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
307+27.12	TO	310+00.00	272.88		2.47	5.68	4.08	1,113.35	0.026		2.34		2.34		2.34		0.026		10.40		
310+00.00	TO	320+00.00	1000.00		5.68	10.23	7.96	7,960.00	0.183		16.47		16.47		16.47		0.183		73.20		
320+00.00	TO	320+50.41	50.41		10.23	9.74	9.99	503.60	0.012		1.08		1.08		1.08		0.012		4.80		
320+50.41	TO	320+88.83	38.42	E 2800TH RD	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000		0.00		
320+88.83	TO	321+00.00	11.17		9.12	0.00	4.56	50.94	0.001		0.09		0.09		0.09		0.001		0.40		
NORTHBOUND-TOTALS =									4.959	0.267	446.31	24.03	446.31	24.03	446.31	24.03	4.959	0.267	1983.60	106.80	
NORTHBOUND-ROUNDED TOTALS =									5.00	0.25	446.25	24.00	446.25	24.00	446.25	24.00	5.00	0.25	1983.50	106.75	

25000210, 25000400, 25000500, 25000600, 25100115, 28000250 QUANTITIES ON SHEETS 26 TO 33

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USER NAME = PiersonJ	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/25/2020	DATE -	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 10 OF 24 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	29
CONTRACT NO. 70D74				

\*\* (116,117)RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR

# SCHEDULE OF QUANTITIES

SOUTHBOUND SEEDING SCHEDULE																				
STA	STA	STA	LENGTH FT	OMISSION REASON	SEEDING LENGTH START FT	SEEDING LENGTH END FT	SEEDING LENGTH AVG FT	SB AREA SQ FT	25000210		25000400		25000500		25000600		25100115		28000250	
									HSIP		HSIP		HSIP		HSIP		HSIP		HSIP	
									EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS
								SEEDING CLASS 2A ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH METHOD 2 ACRE	TEMP EROSION CONTROL SEEDING POUND							
646+00.00	TO	646+17.23	17.23		0.00	2.00	1.00	17.23	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
646+17.23	TO	646+69.09	51.86	E 1800TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
646+69.09	TO	650+00.00	330.91		2.00	4.49	3.25	1,075.46	0.025	2.25	2.25	2.25	2.25	0.025				10.00		
650+00.00	TO	660+00.00	1000.00		4.49	11.36	7.93	7,930.00	0.182	16.38	16.38	16.38	16.38	0.182				72.80		
660+00.00	TO	663+01.73	301.73		11.36	8.32	9.84	2,969.02	0.068	6.12	6.12	6.12	6.12	0.068				27.20		
663+01.73	TO	663+21.09	19.36	FE #2	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
663+21.09	TO	670+00.00	678.91		5.42	4.90	5.16	3,503.18	0.080	7.20	7.20	7.20	7.20	0.080				32.00		
670+00.00	TO	673+12.59	312.59		4.90	6.05	5.48	1,712.99	0.039	3.51	3.51	3.51	3.51	0.039				15.60		
673+12.59	TO	673+29.50	16.91	FE #5	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
673+29.50	TO	679+88.06	658.56		6.83	3.50	5.17	3,404.76	0.078	7.02	7.02	7.02	7.02	0.078				31.20		
679+88.06	TO	680+01.70	13.64	FE #6	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
680+01.70	TO	688+48.74	847.04		4.52	4.41	4.47	3,786.27	0.087	7.83	7.83	7.83	7.83	0.087				34.80		
688+48.74	TO	688+68.20	19.46	FE #9	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
688+68.20	TO	690+00.00	131.80		3.85	6.06	4.96	653.73	0.015	1.35	1.35	1.35	1.35	0.015				6.00		
690+00.00	TO	699+67.06	967.06		6.06	5.97	6.02	5,821.70	0.134	12.06	12.06	12.06	12.06	0.134				53.60		
699+67.06	TO	700+21.67	54.61	E 1900TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
700+21.67	TO	710+00.00	968.06		2.99	4.36	3.68	3,562.46	0.082	7.38	7.38	7.38	7.38	0.082				32.80		
710+00.00	TO	720+00.00	1000.00		4.36	4.61	4.49	4,490.00	0.103	9.27	9.27	9.27	9.27	0.103				41.20		
720+00.00	TO	726+42.89	642.89		4.61	4.59	4.60	2,957.29	0.068	6.12	6.12	6.12	6.12	0.068				27.20		
726+42.89	TO	726+61.58	18.69	FE #11	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
726+61.58	TO	727+19.90	58.32		3.79	3.79	3.79	221.03	0.005	0.45	0.45	0.45	0.45	0.005				2.00		
727+19.90	TO	727+37.28	17.38	FE #12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
727+37.28	TO	730+00.00	262.72		4.97	4.89	4.93	1,295.21	0.030	2.70	2.70	2.70	2.70	0.030				12.00		
730+00.00	TO	739+79.78	979.78		4.89	3.26	4.08	3,997.50	0.092	8.28	8.28	8.28	8.28	0.092				36.80		
739+79.78	TO	739+96.62	16.84	FE #14	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
739+96.62	TO	740+00.00	3.38		2.32	2.32	2.32	7.84	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
740+00.00	TO	750+00.00	1000.00		2.32	4.15	3.24	3,240.00	0.074	6.66	6.66	6.66	6.66	0.074				29.60		
750+00.00	TO	753+05.45	305.45		4.15	3.37	3.76	1,148.49	0.026	2.34	2.34	2.34	2.34	0.026				10.40		
753+05.45	TO	753+60.70	55.25	E 2000TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
753+60.70	TO	760+00.00	639.30		2.35	4.35	3.35	2,141.66	0.049	4.41	4.41	4.41	4.41	0.049				19.60		
760+00.00	TO	764+97.94	497.94		4.35	2.46	3.41	1,697.98	0.039	3.51	3.51	3.51	3.51	0.039				15.60		
764+97.94	TO	765+15.94	18.00	FE #17	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
765+15.94	TO	770+00.00	484.06		2.36	5.95	4.16	2,013.69	0.046	4.14	4.14	4.14	4.14	0.046				18.40		
770+00.00	TO	780+00.00	1000.00		5.95	2.07	4.01	4,010.00	0.092	8.28	8.28	8.28	8.28	0.092				36.80		
780+00.00	TO	780+24.10	24.10		2.07	2.07	2.07	49.89	0.001	0.09	0.09	0.09	0.09	0.001				0.40		
780+24.10	TO	780+37.57	13.47	FE #19	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
780+37.57	TO	790+00.00	962.43		2.00	2.95	2.48	2,386.83	0.055	4.95	4.95	4.95	4.95	0.055				22.00		
790+00.00	TO	800+00.00	1000.00		2.95	3.76	3.36	3,360.00	0.077	6.93	6.93	6.93	6.93	0.077				30.80		
800+00.00	TO	805+99.90	599.90		3.76	3.09	3.43	2,057.66	0.047	4.23	4.23	4.23	4.23	0.047				18.80		
805+99.90	TO	806+13.76	13.86	FE #21	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
806+13.76	TO	806+59.71	45.95		2.06	2.06	2.06	94.66	0.002	0.18	0.18	0.18	0.18	0.002				0.80		
806+59.71	TO	807+10.99	51.28	E 2100TH RD	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
807+10.99	TO	810+00.00	289.01		3.61	3.25	3.43	991.30	0.023	2.07	2.07	2.07	2.07	0.023				9.20		
810+00.00	TO	818+13.34	813.34		3.25	3.17	3.21	2,610.82	0.060	5.40	5.40	5.40	5.40	0.060				24.00		
818+13.34	TO	818+47.37	34.03	FE #22	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000				0.00		
818+47.37	TO	820+00.00	152.63		2.17	3.11	2.64	402.94	0.009	0.81	0.81	0.81	0.81	0.009				3.60		
SOUTHBOUND SUB-TOTALS =									1.688	0.000	151.920	0.000	151.920	0.000	151.920	0.000	1.688	0.000	675.200	0.000

25000210, 25000400, 25000500, 25000600, 25100115, 28000250 QUANTITIES ON SHEETS 26 TO 33

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USER NAME = PiersonTJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE. 836	SECTION **	COUNTY -	TOTAL SHEETS 224	SHEET NO. 30
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET 11 OF 24 SHEETS STA. TO STA.				CONTRACT NO. 70D74				
PLOT DATE = 3/25/2020	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
** (116,117)RS-5, D5 HSIP 2020-1 * DOUGLAS & EDGAR												



# SCHEDULE OF QUANTITIES

## SOUTHBOUND SEEDING SCHEDULE

STA	STA	STA	LENGTH FT	OMISSION REASON	SEEDING LENGTH START FT	SEEDING LENGTH END FT	SEEDING LENGTH AVG FT	SB AREA SQ FT	25000210		25000400		25000500		25000600		25100115		28000250							
									HSIP		HSIP		HSIP		HSIP		HSIP		HSIP							
									EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS
									SEEDING CLASS 2A ACRE		NITROGEN FERTILIZER NUTRIENT POUND		PHOSPHORUS FERTILIZER NUTRIENT POUND		POTASSIUM FERTILIZER NUTRIENT POUND		MULCH METHOD 2 ACRE		TEMP EROSION CONTROL SEEDING POUND							
100+00.00	TO	108+02.50	802.50		3.69	2.45	3.07	2,463.68	0.057		5.13		5.13		5.13		0.057			22.80						
108+02.50	TO	108+46.13	43.63	E CO RD 1150N	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
108+46.13	TO	110+00.00	153.87		2.98	7.58	5.28	812.43	0.019		1.71		1.71		1.71		0.019			7.60						
110+00.00	TO	120+00.00	1000.00		7.58	3.11	5.35	5,350.00	0.123		11.07		11.07		11.07		0.123			49.20						
120+00.00	TO	120+82.54	82.54		3.11	3.11	3.11	256.70	0.006		0.54		0.54		0.54		0.006			2.40						
120+82.54	TO	120+96.74	14.20	FE #40	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
120+96.74	TO	122+25.42	128.68		2.00	2.00	2.00	257.36	0.006		0.54		0.54		0.54		0.006			2.40						
122+25.42	TO	122+77.17	51.75	FE #43	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
122+77.17	TO	130+00.00	722.83		2.27	8.19	5.23	3,780.40	0.087		7.83		7.83		7.83		0.087			34.80						
130+00.00	TO	134+89.61	489.61		8.19	5.43	6.81	3,334.24	0.077		6.93		6.93		6.93		0.077			30.80						
134+89.61	TO	135+63.91	74.30	S.N. 023-2010	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
135+63.91	TO	135+92.15	28.24		2.00	2.00	2.00	56.48	0.001		0.09		0.09		0.09		0.001			0.40						
135+92.15	TO	136+10.91	18.76	FE #45	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
136+10.91	TO	140+00.00	389.09		4.16	6.16	5.16	2,007.70	0.046		4.14		4.14		4.14		0.046			18.40						
140+00.00	TO	150+00.00	1000.00		6.16	4.64	5.40	5,400.00	0.124		11.16		11.16		11.16		0.124			49.60						
150+00.00	TO	160+00.00	1000.00		4.64	4.23	4.44	4,440.00	0.102		9.18		9.18		9.18		0.102			40.80						
160+00.00	TO	161+12.11	112.11		4.23	3.30	3.77	422.65	0.010		0.90		0.90		0.90		0.010			4.00						
161+12.11	TO	161+55.58	43.47	E CR 1250 N	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
161+55.58	TO	170+00.00	844.42		3.07	7.30	5.19	4,382.54	0.101		9.09		9.09		9.09		0.101			40.40						
170+00.00	TO	174+34.60	434.60		7.30	4.38	5.84	2,538.06	0.058		5.22		5.22		5.22		0.058			23.20						
170+00.00	TO	174+51.15	451.15	FE #46	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
174+51.15	TO	180+00.00	548.85		4.02	2.73	3.38	1,855.11	0.043		3.87		3.87		3.87		0.043			17.20						
180+00.00	TO	180+54.91	54.91		2.73	2.73	2.73	149.90	0.003		0.27		0.27		0.27		0.003			1.20						
180+54.91	TO	180+80.95	26.04	PE #5	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
180+80.95	TO	181+02.86	21.91		2.00	2.00	2.00	43.82	0.001		0.09		0.09		0.09		0.001			0.40						
181+02.86	TO	181+24.59	21.73	PE #6	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
181+24.59	TO	187+81.68	657.09		2.43	3.52	2.98	1,958.13	0.045		4.05		4.05		4.05		0.045			18.00						
187+81.68	TO	187+93.53	11.85	FE #47	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
187+93.53	TO	190+00.00	206.47		6.36	6.22	6.29	1,298.70	0.030		2.70		2.70		2.70		0.030			12.00						
190+00.00	TO	200+00.00	1000.00		3.52	4.38	3.95	3,950.00	0.091		8.19		8.19		8.19		0.091			36.40						
200+00.00	TO	210+00.00	1000.00		4.38	2.74	3.56	3,560.00	0.082		7.38		7.38		7.38		0.082			32.80						
210+00.00	TO	214+12.34	412.34		2.74	2.37	2.56	1,055.59	0.024		2.16		2.16		2.16		0.024			9.60						
214+12.34	TO	214+56.01	43.67	CR 1350N	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
214+56.01	TO	220+00.00	543.99		3.23	3.53	3.38	1,838.69	0.042		3.78		3.78		3.78		0.042			16.80						
220+00.00	TO	224+50.72	450.72		3.53	2.47	3.00	1,352.16	0.031		2.79		2.79		2.79		0.031			12.40						
224+50.72	TO	224+66.99	16.27	FE #54	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
224+66.99	TO	230+00.00	533.01		2.31	4.04	3.18	1,694.97	0.039		3.51		3.51		3.51		0.039			15.60						
230+00.00	TO	240+00.00	1000.00		4.04	3.00	3.52	3,520.00	0.081		7.29		7.29		7.29		0.081			32.40						
240+00.00	TO	240+68.77	68.77		3.00	3.00	3.00	206.31	0.005		0.45		0.45		0.45		0.005			2.00						
240+68.77	TO	240+85.09	16.32	FE #57	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
240+85.09	TO	250+00.00	914.91		2.71	2.97	2.84	2,598.34	0.060		5.40		5.40		5.40		0.060			24.00						
250+00.00	TO	253+89.30	389.30		2.97	2.69	2.83	1,101.72	0.025		2.25		2.25		2.25		0.025			10.00						
253+89.30	TO	254+34.25	44.95	E CR 1425N	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
254+34.25	TO	260+00.00	565.75		2.54	3.32	2.93	1,657.65	0.038		3.42		3.42		3.42		0.038			15.20						
260+00.00	TO	267+30.71	730.71		3.32	3.22	3.27	2,389.42	0.055		4.95		4.95		4.95		0.055			22.00						
267+30.71	TO	267+48.90	18.19	FE #59	0.00	0.00	0.00	0.00	0.000		0.00		0.00		0.00		0.000			0.00						
267+48.90	TO	270+00.00	251.10		3.68	12.78	8.23	2,066.55	0.047		4.23		4.23		4.23		0.047			18.80						
SOUTHBOUND SUB-TOTALS =									1.559	0.000	140.310	0.000	140.310	0.000	140.310	0.000	1.559	0.000	623.600	0.000						

25000210, 25000400, 25000500, 25000600, 25100115, 28000250 QUANTITIES ON SHEETS 26 TO 32

MODEL: I:\MODEL\MHFS  
FILE: MHFS\_Plan\Illinois.gcp\PROJECTS\DOT\Documents\DOT\Office\Drawings\Project\057007\24-rt-Schedule.dgn

USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>		
SCALE:	SHEET 13 OF 24 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	32
CONTRACT NO. 70D74				

ILLINOIS FED. AID PROJECT      \*\* (116,117)RS-5, D5 HSIP 2020-1      \* DOUGLAS & EDGAR



# SCHEDULE OF QUANTITIES

SOUTHBOUND SEEDING SCHEDULE																					
STA	STA	STA	LENGTH FT	OMISSION REASON	SEEDING LENGTH START FT	SEEDING LENGTH END FT	SEEDING LENGTH AVG FT	SB AREA SQ FT	25000210		25000400		25000500		25000600		25100115		28000250		
									HSIP		HSIP		HSIP		HSIP		HSIP		HSIP		
									EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR
								SEEDING CLASS 2A ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH METHOD 2 ACRE	TEMP EROSION CONTROL SEEDING POUND								
270+00.00	TO	280+00.00	1000.00		12.78	2.43	7.61	7,610.00	0.175	15.75		15.75		15.75		0.175		70.00			
280+00.00	TO	280+59.00	59.00		2.43	2.31	2.37	139.83	0.003	0.27		0.27		0.27		0.003		1.20			
280+59.00	TO	280+74.91	15.91	FE #61	0.00	0.00	0.00	0.00	0.000	0.00		0.00		0.00		0.000		0.00			
280+74.91	TO	289+47.31	872.40		2.55	2.83	2.69	2,346.76	0.054	4.86		4.86		4.86		0.054		21.60			
289+47.31	TO	289+74.22	26.91	FE #63	0.00	0.00	0.00	0.00	0.000	0.00		0.00		0.00		0.000		0.00			
289+74.22	TO	290+00.00	25.78		2.72	2.72	2.72	70.12	0.002	0.18		0.18		0.18		0.002		0.80			
290+00.00	TO	299+07.71	907.71		2.72	3.42	3.07	2,786.67	0.064	5.76		5.76		5.76		0.064		25.60			
299+07.71	TO	299+24.41	16.70	FE #64	0.00	0.00	0.00	0.00	0.000	0.00		0.00		0.00		0.000		0.00			
299+24.41	TO	300+00.00	75.59		4.02	3.90	3.96	299.34	0.007	0.63		0.63		0.63		0.007		2.80			
300+00.00	TO	307+19.88	719.88		3.90	5.38	4.64	3,340.24	0.077	6.93		6.93		6.93		0.077		30.80			
307+19.88	TO	307+37.62	17.74	FE #66	0.00	0.00	0.00	0.00	0.000	0.00		0.00		0.00		0.000		0.00			
307+37.62	TO	310+00.00	262.38		5.34	4.04	4.69	1,230.56	0.028	2.52		2.52		2.52		0.028		11.20			
310+00.00	TO	320+00.00	1000.00		5.38	3.84	4.61	4,610.00	0.106	9.54		9.54		9.54		0.106		42.40			
320+00.00	TO	320+50.77	50.77		3.84	3.72	3.78	191.91	0.004	0.36		0.36		0.36		0.004		1.60			
320+50.77	TO	320+91.40	40.63	E 1550N RD	0.00	0.00	0.00	0.00	0.000	0.00		0.00		0.00		0.000		0.00			
320+91.40	TO	321+00.00	8.60		2.01	0.00	1.01	8.69	0.000	0.00		0.00		0.00		0.000		0.00			
SOUTHBOUND-TOTALS =									5.172	0.074	465.48	6.66	465.48	6.66	465.48	6.66	5.172	0.074	2068.80	29.60	
SOUTHBOUND-ROUNDED TOTALS =									5.25	0	465.5	6.75	465.5	6.75	465.5	6.75	5.25	0	2068.75	29.5	
COUNTY-TOTALS =									10.25	0.25	911.75	30.75	911.75	30.75	911.75	30.75	10.25	0.25	4052.25	136.25	
TOTALS =									10.50		942.50		942.50		942.50		10.50		4188.50		

25000210, 25000400, 25000500, 25000600, 25100115, 28000250 QUANTITIES ON SHEETS 26 TO 33

CULVERT REPLACEMENT SCHEDULE																					
CULVERT	CULVERT LENGTH FT	NUMBER CELLS	CULVERT SPAN FT	CULVERT RISE FT	CULVERT WALL THICKNESS FT	20700110	28000400	28100201	28200200	44201747	48101500	50100300	50100400	51500100	54001001	54001002	54011202	61100500			
						3P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P
						EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR
						POROUS GRANULAR EMBANKMENT CU YD	PERIMETER EROSION BARRIER FT	STONE RIPRAP CLASS A1 TON	FILTER FABRIC SQ YD	CLASS D PATCHES, TYPE IV 8 INCH SQ YD	AGGREGATE SHOULDER TYPE B, 6" SQ YD	REMOVAL EXIST STRUCT NO. 1 EACH	REMOVAL EXIST STRUCT NO. 2 EACH	NAME PLATES EACH	BOX CUL END SEC C1 EACH	BOX CUL END SEC C2 EACH	PRECAST CONC. BOX CULV 12' x 2' FT	EXPLORATION TRENCH 52" DEPTH FT			
S.N. 023-8072	36	1	12	2	1	47.00	200.00	51.00	85.00	82.00	142.00	1.00		1.00	2.00	0.00	30.00	200.00			
S.N. 023-2019	36	2	12	2	1	60.00	200.00	89.00	149.00	130.00	144.00		1.00	1.00	0.00	2.00	66.00	200.00			
TOTALS =						107.00	400.00	140.00	234.00	212.00	286.00	1.00	1.00	2.00	2.00	2.00	96.00	400.00			

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USER NAME = PiersonJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		836	**	-	224	33				
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 70D74								
PLOT DATE = 3/25/2020	DATE -	REVISED -		SCALE:	SHEET 14 OF 24 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

\*\*(116,117)RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR

# SCHEDULE OF QUANTITIES

NORTHBOUND MAINLINE INLAY SCHEDULE																		
STA	TO	STA	LENGTH FOOT	BEGIN LANE WIDTH FOOT	END LANE WIDTH FOOT	AVG LANE WIDTH FOOT	OMISSION REASON	LANE AREA SQ YD	SURFACE THICKNESS INCH	BINDER THICKNESS INCH	SMART		SMART		SMART		SMART	
											EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS
											40600290		40604050		40602965		44000160	
											BIT MATL (TACK COAT)		HMA SURF CSE IL-9.5 MIX C, N50 1.5		HMA BINDER CSE IL-9.5 FG, N50 1.25		HMA SURFACE REMOVAL 2.75	
											POUND	TON	TON	TON	SQ YD			
646+00.00	TO	865+80.00	21,980.00	12.0	12.0	12.0		29,306.7	1.5	1.25	19,782.0	2,461.8	2,051.5		29,306.7			
865+80.00	TO	868+80.00	300.00	12.0	12.0	12.0		400.0	1.5	1.25	270.0	33.6	28.0		400.0			
868+80.00	TO	872+24.95	344.95	12.0	22.0	17.0		651.6	1.5	1.25	439.8	54.7	45.6		651.6			
872+24.95	TO	873+15.10	90.15	20.0	85.0	52.5	ISLANDS	514.8	1.5	1.25	347.5	43.2	36.0		514.8			
873+15.10	TO	873+45.00	29.90				US 36											
873+45 (AH)	TO	0+00 (BK)																
+00.00	TO	+31.93	31.93				US 36											
+31.93	TO	1+50.77	118.84	76.3	20.7	48.5	ISLANDS	630.2	1.5	1.25		425.4	52.9	44.1	630.2			
1+50.77	TO	4+36.61	285.84	22.2	19.4	20.8		660.6	1.5	1.25		445.9	55.5	46.2	660.6			
4+36.61	TO	20+66.52	1,629.91	19.4	13.4	16.4		2,970.1	1.5	1.25	2,004.8	249.5	207.9	2,970.1				
20+66.52	TO	22+20.20	153.68	13.4	13.3	13.4		228.8	1.5	1.25	154.5	19.2	16.0	228.8				
22+20.20	TO	25+84.06	363.86	13.3	14.0	13.7		553.9	1.5	1.25	373.9	46.5	38.8	553.9				
25+84.06	TO	26+38.96	54.90				RAILROAD											
26+38.96	TO	50+94.55	2,455.59	14.3	13.5	13.9		3,792.5	1.5	1.25	2,559.9	318.6	265.5	3,792.5				
50+94.55	TO	52+15.99	121.44	13.5	16.4	15.0		202.4	1.5	1.25	136.6	17.0	14.2	202.4				
52+15.99	TO	53+61.75	145.76				S.N. 023-2018											
53+61.75	TO	55+23.26	161.51	16.4	16.3	16.4		294.3	1.5	1.25	198.6	24.7	20.6	294.3				
55+23.26	TO	66+43.96	1,120.70	13.5	12.9	13.2		1,643.7	1.5	1.25	1,109.5	138.1	115.1	1,643.7				
66+43.96	TO	69+29.89	285.93	16.7	16.9	16.8		533.7	1.5	1.25	360.3	44.8	37.4	533.7				
69+29.89	TO	70+33.53	103.64				S.N. 023-2014											
70+33.53	TO	73+94.81	361.28	16.7	16.4	16.6		666.4	1.5	1.25	449.8	56.0	46.6	666.4				
73+94.81	TO	133+95.11	6,000.30	12.6	12.8	12.7		8,467.1	1.5	1.25	5,715.3	711.2	592.7	8,467.1				
133+95.11	TO	134+54.74	59.63	16.7	12.8	14.8		98.1	1.5	1.25	66.2	8.2	6.9	98.1				
134+54.74	TO	134+89.74	35.00	12.8	18.7	15.8		61.4	1.5	VARIES	41.4	5.2	7.3	61.4				
134+89.74	TO	135+64.08	74.34				S.N. 023-2010											
135+64.08	TO	135+99.08	35.00	16.5	16.4	16.5		64.2	1.5	VARIES	43.3	5.4	7.6	64.2				
135+99.08	TO	136+71.67	72.59	16.4	15.6	16.0		129.0	1.5	1.25	87.1	10.8	9.0	129.0				
136+71.67	TO	321+00.00	18,428.33	12.9	12.8	12.9		26,413.9	1.5	1.25	17,829.4	2,218.8	1,849.0	26,413.9				
NORTHBOUND SUB-TOTALS =											49,965.1	2,876.1	6,217.8	357.9	5,187.8	298.2	74,022.5	4,260.9
ROUNDED NORTHBOUND SUB-TOTALS =											49,966.0	2,877.0	6,218.0	358.0	5,188.0	299.0	74,023.0	4,261.0

SEE SHEETS 67 & 68 FOR S.N. 023-2010 TRANSITION DETAIL  
 40600290 QUANTITIES ON SHEETS 34 TO 36 & 40  
 40604050 QUANTITIES ON SHEET 34 TO 36  
 40602965, 44000160, Z0033700 QUANTITIES ON SHEETS 34 TO 35

MODEL: \\MODEL\MH\MS...  
 FILE: \\models...  
 PROJECT: \\PROJECTS\057007\ACADD\DATA\Design\057007\74-RT-Schedule.dgn

USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 15 OF 24 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	34
CONTRACT NO. 70D74				



# SCHEDULE OF QUANTITIES

NORTHBOUND SHOULDER WIDENING SCHEDULE															
NORTHBOUND LANE															
STA	TO	STA	LENGTH FT	OMISSION REASON	HMA SHLDR WIDTH FT	HMA SHLDR AREA SQ FT	48203023		40600290		44000100		40604050		
							HSIP		HSIP		HSIP		HSIP		
							EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	EDGAR	DOUGLAS	EDGAR	DOUGLAS
							HMA SHOULDERS 6.5 INCH SQ YD		TACK COAT LBS		PVMT REMOVAL SQ YD		HMA SURF CSE IL-9.5 MIX C, N50 1.5 TON		
646+00.00	TO	699+62.03	5362.03		4	21,448.12	2,383.12		536.20	595.78		200.18			
699+62.03	TO	700+25.18	63.15	E 1900TH RD	0	0.00	0.00		0.00	0		0.00			
700+25.18	TO	753+02.70	5277.52		4	21,110.08	2,345.56		527.75	586.39		197.03			
753+02.70	TO	753+65.78	63.08	E 2000TH RD	0	0.00	0.00		0.00	0		0.00			
753+65.78	TO	806+54.14	5288.36		4	21,153.44	2,350.38		528.84	587.6		197.43			
806+54.14	TO	807+16.46	62.32	E 2100TH RD	0	0.00	0.00		0.00	0		0.00			
807+16.46	TO	865+80.00	5863.54		4	23,454.16	2,606.02		586.35	651.5		218.91			
865+80.00	TO	870+03.01	423.01		3	1,269.03	141.00		31.73	47		11.84			
870+03.01	TO	873+45.00	341.99		0	0.00	0.00		0.00	0		0.00			
STA. EQN 873+45.00 (BK) = 0+00 (AH)															
+00.00	TO	4+36.61	436.61	US 36	0	0.00	0.00		0.00	0		0.00			
4+36.61	TO	9+67.10	530.49		2	1,060.98	117.89		26.52	0		9.90			
9+67.10	TO	20+66.52	1099.42	COUNTY LINE	2	2,198.84	244.32		54.97	0		20.52			
20+66.52	TO	26+06.42	539.90		2	1,079.80	119.98		27.00	0		10.08			
26+06.42	TO	26+16.55	10.13	RAILROAD	0	0.00	0.00		0.00	0		0.00			
26+16.55	TO	28+55.69	239.14		3	717.42	79.71		17.94	0		6.70			
28+55.69	TO	29+05.76	50.07	E 2250TH RD	0	0.00	0.00		0.00	0		0.00			
29+05.76	TO	50+94.55	2188.79		3	6,566.37	729.60		164.16	0		61.29			
50+94.55	TO	55+23.09	428.54	S.N. 023-0018	0	0.00	0.00		0.00	0		0.00			
55+23.09	TO	66+43.71	1120.62		3	3,361.86	373.54		84.05	0		31.38			
66+43.71	TO	73+94.81	751.10	S.N. 023-2014	0	0.00	0.00		0.00	0		0.00			
73+94.81	TO	81+46.52	751.71		3	2,255.13	250.57		56.38	0		21.05			
81+46.52	TO	81+98.32	51.80	2350N	0	0.00	0.00		0.00	0		0.00			
81+98.32	TO	133+95.13	5196.81		3	15,590.43	1,732.27		389.76	0		145.51			
133+95.13	TO	136+71.67	276.54	S.N. 023-2010	0	0.00	0.00		0.00	0		0.00			
136+71.67	TO	161+03.63	2431.96		3	7,295.88	810.65		182.40	0		68.09			
161+03.63	TO	161+60.43	56.80	2500N	0	0.00	0.00		0.00	0		0.00			
161+60.43	TO	253+81.91	9221.48		3	27,664.44	3,073.83		691.61	0		258.20			
253+81.91	TO	254+37.10	55.19	E 2675TH RD	0	0.00	0.00		0.00	0		0.00			
254+37.10	TO	290+00.00	3562.90		3	10,688.70	1,187.63		267.22	0		99.76			
290+00.00	TO	320+50.41	3050.41		2	6,100.82	677.87		152.52	0		56.94			
320+50.41	TO	320+88.83	38.42	E 2800TH RD	0	0.00	0.00		0.00	0		0.00			
320+88.83	TO	321+00.00	11.17		2	22.34	2.48		0.56	0		0.21			
NORTHBOUND TOTAL =							18,864.21	362.21	4,244.47	81.49	2,468.27	1,584.60	30.42		
ROUNDED NORTHBOUND TOTALS =							18,865.00	363.00	4,245.00	82.00	2,469.00	1,585.00	31.00		

0.025 LB/ SQ FT RATE FOR TACK COAT  
 40600290 QUANTITIES ON SHEETS 34 TO 36 & 40  
 40604050 QUANTITIES ON SHEET 34 TO 36  
 44000100 QUANTITIES ON SHEETS 36 TO 38

AGGREGATE WEDGE SHOULDER SCHEDULE						
DIRECTION	STA	TO	STA	LENGTH FT	48102100	
					HSIP	
					DOUGLAS	
					AGGREGATE WEDGE SHOULDER TYPE B TON	
NB	2+17.31	TO	4+36.71	219.40	3.66	
SB	14+51.98	TO	20+20.20	568.22	9.47	
TOTAL =					13.13	
ROUNDED TOTALS =					14.00	

TO BE USED TO FILL IN EXISTING DROP-OFFS WHERE NO HMA SHOULDERS ARE TO BE INSTALLED  
 USE AND QUANTITIES TO BE DETERMINED BY THE ENGINEER  
 48102100 QUANTITIES CONTINUE ON SHEET 38

SOUTHBOUND SHOULDER WIDENING SCHEDULE															
SOUTHBOUND LANE															
STA	TO	STA	LENGTH FT	OMISSION REASON	HMA SHLDR WIDTH FT	HMA SHLDR AREA SQ FT	48203023		40600290		44000100		40604050		
							HSIP		HSIP		HSIP		HSIP		
							EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	EDGAR	DOUGLAS	EDGAR	DOUGLAS
							HMA SHOULDERS 6.5 INCH SQ YD		TACK COAT LBS		PVMT REMOVAL SQ YD		HMA SURF CSE IL-9.5 MIX C, N50 1.5 TON		
646+00.00	TO	646+13.86	13.86		4	55.44	6.16		1.39			1.54	0.52		
646+13.86	TO	646+71.90	58.04	E 1800TH RD	0	0.00	0.00		0.00	0		0.00			
646+71.90	TO	699+60.94	5289.04		4	21,156.16	2,350.68		528.90			587.67	197.46		
699+60.94	TO	700+25.51	64.57	E 1900TH RD	0	0.00	0.00		0.00	0		0.00			
700+25.51	TO	753+01.32	5275.81		4	21,103.24	2,344.80		527.58			586.2	196.96		
753+01.32	TO	753+63.49	62.17	E 2000TH RD	0	0.00	0.00		0.00	0		0.00			
753+63.49	TO	806+56.54	5293.05		4	21,172.20	2,352.47		529.30			588.12	197.61		
806+56.54	TO	807+13.91	57.37	E 2100TH RD	0	0.00	0.00		0.00	0		0.00			
807+13.91	TO	865+80.00	5866.09		4	23,464.36	2,607.15		586.61			651.79	219.00		
865+80.00	TO	871+53.80	573.80		3	1,721.40	191.27		43.04			63.76	16.07		
871+53.80	TO	873+45.00	191.20	US 36	0	0.00	0.00		0.00	0		0.00			
STA. EQN 873+45.00 (BK) = 0+00 (AH)															
+00.00	TO	2+57.80	257.80	US 36	2	515.60	57.29		12.89	0		4.81			
2+57.80	TO	14+51.98	1194.18		2	2,388.36	265.37		59.71	0		22.29			
14+51.98	TO	22+20.20	768.22	CURVE 5045_2_6	0	0.00	0.00		0.00	0		0.00			
22+20.20	TO	26+06.42	386.22		2	772.44	85.83		19.31	0		7.21			
26+06.42	TO	26+16.55	10.13	RAILROAD	0	0.00	0.00		0.00	0		0.00			
26+16.55	TO	28+53.37	236.82		3	710.46	78.94		17.76	0		6.63			
28+53.37	TO	29+03.52	50.15	E. CO RD 1000N	0	0.00	0.00		0.00	0		0.00			
29+03.52	TO	50+84.96	2181.44		3	6,544.32	727.15		163.61	0		61.08			
50+84.96	TO	55+23.01	438.05	S.N. 023-0018	0	0.00	0.00		0.00	0		0.00			
55+23.01	TO	66+43.71	1120.70		3	3,362.10	373.57		84.05	0		31.38			
66+43.71	TO	73+94.81	751.10	S.N. 023-2014	0	0.00	0.00		0.00	0		0.00			
73+94.81	TO	107+99.53	3404.72		3	10,214.16	1,134.91		255.35	0		95.33			
107+99.53	TO	108+48.37	48.84	E CO RD 1150N	0	0.00	0.00		0.00	0		0.00			
108+48.37	TO	134+89.61	2641.24		3	7,923.72	880.41		198.09	0		73.95			
134+89.61	TO	135+63.91	74.30	S.N. 023-2010	0	0.00	0.00		0.00	0		0.00			
135+63.91	TO	161+09.61	2545.70		3	7,637.10	848.57		190.93	0		71.28			
161+09.61	TO	161+58.81	49.20	E CR 1250 N	0	0.00	0.00		0.00	0		0.00			
161+58.81	TO	214+09.82	5251.01		3	15,753.03	1,750.34		393.83	0		147.03			
214+09.82	TO	214+58.73	48.91	CR 1350N	0	0.00	0.00		0.00	0		0.00			
214+58.73	TO	253+86.36	3927.63		3	11,782.89	1,309.21		294.57	0		109.97			
253+86.36	TO	254+37.29	50.93	E CR 1425N	0	0.00	0.00		0.00	0		0.00			
254+37.29	TO	290+00.00	3562.71		3	10,688.13	1,187.57		267.20	0		99.76			
290+00.00	TO	320+47.87	3047.87		2	6,095.74	677.30		152.39	0		56.89			
320+47.87	TO	320+93.41	45.54	E 1550N RD	0	0.00	0.00		0.00	0		0.00			
320+93.41	TO	321+00.00	6.59		2	13.18	1.46		0.33	0		0.12			
SOUTHBOUND TOTAL =							18,907.79	322.66	4,254.24	72.60	2,479.08	1,588.25	27.10		
ROUNDED SOUTHBOUND TOTALS =							18,908.00	323.00	4,255.00	73.00	2,480.00	1,589.00	28.00		
COUNTY TOTALS =							37,773.00	686.00	8,500.00	155.00	4,949.00	3,174.00	59.00		
TOTALS =							38,459.00	8,655.00			4,949.00	3,233.00			

0.025 LB/ SQ FT RATE FOR TACK COAT  
 40600290 QUANTITIES ON SHEETS 34 TO 36 & 40  
 40604050 QUANTITIES ON SHEET 34 TO 36  
 44000100 QUANTITIES ON SHEETS 36 TO 38

MODEL: I:\MODEL\MHFS... PROJECT: D:\PROJECTS\057007\ACAD\DATA\Design\057007\North-Schedule.sdm

USER NAME = PiersonTJ	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 17 OF 24 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	36
CONTRACT NO. 70D74				
ILLINOIS FED. AID PROJECT		** (116,117)RS-5, D5 HSIP 2020-1		

\* DOUGLAS & EDGAR

# SCHEDULE OF QUANTITIES

INCIDENTAL SIDEROAD SCHEDULE											
SIDE	STA	DESCRIPTION	LENGTH AT EOP FT	LENGTH AT TIE-IN FT	PROPOSED ENTRANCE WIDTH FT	RESURFACE AREA SQ FT	AVG THICKNESS IN	40800029	40800050	X4400196	
								3P	3P	3P	
								EDGAR	EDGAR	EDGAR	
								BIT MATL (TACK COAT) POUND	INCIDENTAL HMA SURFACING TON	HMA SURF REMOVAL SPECIAL SQ YD	
LT	646+44.19	E 1800TH RD	58.06	20.36	27.42	990.36	1.5	49.52	9.24	110.04	
LT	699+93.29	E 1900TH RD	64.58	18.74	27.42	1053.98	1.5	52.70	9.84	117.11	
RT	699+93.29	E 1900TH RD	63.14	19.77	28.17	1045.34	1.5	52.27	9.76	116.15	
LT	753+33.16	E 2000TH RD	62.17	22.4	28.17	1096.29	1.5	54.81	10.23	121.81	
RT	753+33.16	E 2000TH RD	63.08	16.69	27.5	984.38	1.5	49.22	9.19	109.38	
LT	806+85.58	E 2100TH RD	57.37	23.7	27.33	1022.11	1.5	51.11	9.54	113.57	
RT	806+85.58	E 2100TH RD	62.32	17.02	28.08	1021.03	1.5	51.05	9.53	113.45	
LT	28+78.70	E CO RD 1000N	50.15	16.34	27.67	858.48	1.5	42.92	8.01	95.39	
RT	28+78.70	E 2250TH RD	50.07	15.75	27.58	820.21	1.5	41.01	7.66	91.13	
LT	71+26.65	1075 N	52.6	22.16	24.25	812.4	1.5	40.62	7.58	90.27	
RT	81+69.88	2350 N	51.82	18.85	28	889.16	1.5	44.46	8.30	98.8	
LT	108+25.78	E CO RD 1150N	48.84	15.8	27.83	826.39	1.5	41.32	7.71	91.82	
LT	161+33.70	E CR 1250N	49.2	18.78	27.25	843.56	1.5	42.18	7.87	93.73	
RT	161+33.70	2500N	56.81	16.49	28.25	936.04	1.5	46.80	8.74	104	
LT	214+34.18	CR 1350N	48.91	17.37	26.83	807.08	1.5	40.35	7.53	89.68	
LT	254+10.23	E CR 1425N	50.93	18.68	27.42	842.52	1.5	42.13	7.86	93.61	
RT	254+10.23	E 2675TH RD	55.2	18.44	27.92	935.7	1.5	46.79	8.73	103.97	
LT	320+67.34	E 1550N RD	45.53	19.42	27	754.7	1.5	37.74	7.04	83.86	
RT	320+67.34	E 2800TH RD	38.41	16.35	27	635.97	1.5	31.80	5.94	70.66	
TOTALS =								858.80	160.30	1908.43	
ROUNDED TOTALS =								859.00	160.00	1908.00	

40800029, 40800050, X4400196 QUANTITIES CONTINUE ON SHEET 37

TEMPORARY DITCH CHECK SCHEDULE			
CULVERT STA	28000305		
	3P	HSIP	
	EDGAR	EDGAR	DOUGLAS
	TEMPORARY DITCH CHECK FOOT		
654+91.02		16.00	
675+89.39		16.00	
686+38.74		20.00	
703+62.03		16.00	
723+83.81		16.00	
733+45.50		16.00	
770+76.51		16.00	
793+01.50		16.00	
801+76.68		16.00	
833+82.64		24.00	
853+80.89		16.00	
13+33.00	16.00		16.00
111+78.00		16.00	
127+06.81		16.00	
189+90.05			
217+94.61		16.00	
243+85.62		16.00	
260+43.10		16.00	
270+89.96		16.00	
296+38.00		16.00	
318+48.69	16.00		
COUNTY TOTALS =	32.00	300.00	16.00
TOTALS =		348.00	

INCIDENTAL ENTRANCE SCHEDULE																		
SIDE	STA	DESCRIPTION	LENGTH AT EOP FT	LENGTH AT EOS FT	LENGTH AT TIE-IN FT	PAVEMENT REMOVAL WIDTH FT	PROPOSED ENTRANCE WIDTH FT	PAVEMENT REMOVAL AREA SQ FT	RESURFACE AREA SQ FT	AVG THICKNESS IN	40800029		40800050		44000100		X4400196	
											HSIP		HSIP		HSIP		HSIP	
											EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS	EDGAR	DOUGLAS
											BIT MATL (TACK COAT) POUND	INCIDENTAL HMA SURFACING TON	PAVEMENT REMOVAL SQ YD	HMA SURF REMOVAL SPECIAL SQ YD				
*	LT	818+27.30	FE #22	51.93	39.93	13.16	3	24	137.79	499.73	1.5	24.99		4.66	15.31		55.53	
	LT	4+04.61	PE #2	63.42	57.86	33.85	2	7.25	121.28	332.45	1.5		16.62	3.10	13.48		36.94	
*	LT	24+67.20	PE #3	63.09	59.36	36.16	2	25	122.45	1034.63	1.5	51.73		9.66	13.61		114.96	
*	LT	104+43.24	PE #4	58.09	49.26	36.38	3	28	161.03	873.70	2.5	43.69		13.59	17.89		97.08	
*	LT	122+60.92	FE #43	63.63	56.36	41.69	3	6.25	179.99	313.11	1.5	15.66		2.92	20.00		34.79	
	LT	180+68.44	PE #5	39.62	31.54	15.15	3	6	106.74	140.07	1.5	7.00		1.31	11.86		15.56	
	LT	181+13.12	PE #6	34.61	26.85	15.69	3	4.5	92.19	95.72	1.5	4.79		0.89	10.24		10.64	
*	RT	182+34.17	PE #7	71.51	52.81	12.87	3	7.42	186.48	196.46	1.5	9.82		1.83	20.72		21.83	
	RT	213+48.07	FE #50	63.76	47.64	23.37	3	5.75	167.1	204.15	1.5	10.21		1.91	18.57		22.68	
	RT	214+16.18	FE #51	36.82	31.08	16.13	3	7.25	101.85	171.14	1.5	8.56		1.60	11.32		19.02	
*	LT	299+13.25	FE #64	41.52	39.92	9.52	2	25.17	81.44	336.26	1.5	16.81		3.14	9.05		37.36	
	RT	302+79.04	PE #8	40.74	39.88	28.27	2	6.67	80.62	227.28	1.5	11.36		2.12	8.96		25.25	
TOTALS =											179.63	16.62	38.97	3.10	142.22	13.48	399.17	36.94
ROUNDED COUNTY TOTALS =											180.00	17.00	39.00	3.00	142.00	13.00	399.00	37.00
TOTALS =											197.00		42.00		155.00		436.00	

\*AREAS MEASURED IN CADD  
MATERIAL REMOVAL REQUIRED FOR SHOULDER INSTALLATION INCLUDED IN THE COST OF PAVEMENT REMOVAL.  
40800029, 40800050, X4400196 QUANTITIES CONTINUE ON SHEET 37  
44000100 QUANTITIES ON SHEETS 36 TO 38

MODEL: I:\MODEL\MHFS FILE: MHFS\_Plan\Illinois.pwd\DOT\Documents\DOT - Office\Illinois - Project\DOT\Documents\Design\0570D74\Sheet-Schedule.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		SCALE:	SHEET 18 OF 24 SHEETS	STA.	TO STA.	836	**	-	224	37
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 70D74				
PLOT DATE = 3/25/2020	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

# SCHEDULE OF QUANTITIES

## TEMPORARY RAMP SCHEDULE

HMA APRON SCHEDULE													
SIDE	STA	DESCRIPTION	LENGTH AT EOP FT	LENGTH AT BACK FT	AGGREGATE					44000100		48102100	
					HMA APRON		WEDGE SHOULDER			HSIP		HSIP	
					REMOVAL WIDTH FT	REMOVAL AREA SQ FT	WIDTH FT	THICKNESS IN	AREA SQ FT	EDGAR	DOUGLAS	EDGAR	DOUGLAS
					PAVEMENT REMOVAL SQ YD	AGGREGATE WEDGE SHOULDER TYPE B TON							
RT	646+43.85	FE #1	40.66	31.83	3.00	108.74	2	3	63.66	12.08	1.06		
LT	663+10.96	FE #2	34.65	29.71	2.50	80.45	2	3	59.42	8.94	0.99		
RT	670+66.30	FE #3	44.25	37.39	2.83	115.52	2	3	74.78	12.84	1.25		
RT	673+20.32	FE #4	28.60	21.57	3.00	75.26	2	3	43.14	8.36	0.72		
LT	673+20.94	FE #5	28.27	23.67	3.00	77.91	2	3	47.34	8.66	0.79		
LT	679+93.96	FE #6	27.96	22.31	2.67	67.11	2	3	44.62	7.46	0.74		
RT	684+33.30	FE #7	28.43	19.99	3.00	72.63	2	3	39.98	8.07	0.67		
RT	686+72.76	FE #8	34.07	26.63	2.50	75.88	2	3	53.26	8.43	0.89		
LT	688+58.23	FE #9	31.15	26.15	2.67	76.50	2	3	52.30	8.50	0.87		
LT	726+51.92	FE #11	28.72	22.05	2.75	69.81	2	3	44.10	7.76	0.74		
LT	727+28.28	FE #12	28.36	22.28	2.92	73.93	2	3	44.56	8.21	0.74		
RT	739+86.66	FE #13	26.62	22.90	3.00	74.28	2	3	45.80	8.25	0.76		
LT	739+87.58	FE #14	27.76	20.31	3.00	72.11	2	3	40.62	8.01	0.68		
RT	748+48.86	FE #15	30.76	24.36	3.00	82.68	2	3	48.72	9.19	0.81		
RT	765+07.07	FE #16	30.41	23.78	2.83	76.68	2	3	47.56	8.52	0.79		
LT	765+09.73	FE #17	24.53	16.46	2.50	51.24	2	3	32.92	5.69	0.55		
RT	779+87.05	FE #18	28.21	21.66	2.83	70.57	2	3	43.32	7.84	0.72		
LT	780+30.38	FE #19	22.01	17.08	3.00	58.64	2	3	34.16	6.52	0.57		
RT	787+93.67	FE #20	33.07	27.68	3.00	91.13	2	3	55.36	10.13	0.92		
LT	806+06.59	FE #21	36.47	28.38	3.00	97.28	2	3	56.76	10.81	0.95		
LT	820+43.79	FE #23	45.52	40.34	2.33	100.03	2	3	80.68	11.11	1.34		
RT	820+44.36	FE #24	32.10	26.53	2.67	78.27	2	3	53.06	8.70	0.88		
LT	834+18.68	FE #25	29.09	20.08	2.83	69.58	2	3	40.16	7.73	0.67		
RT	834+18.87	FE #26	27.84	20.76	3.00	72.90	2	3	41.52	8.10	0.69		
LT	858+58.16	FE #27	29.52	22.53	3.00	78.08	2	3	45.06	8.68	0.75		
RT	858+59.96	FE #28	29.61	23.08	3.00	79.04	2	3	46.16	8.78	0.77		
RT	10+72.70	FE #31	30.65	24.68	2.00	55.33	2	3	49.36	6.15	0.82		
RT	36+17.95	FE #32	28.74	23.16	3.00	77.85	2	3	46.32	8.65	0.77		
LT	42+08.70	FE #33	29.61	22.58	3.00	78.29	2	3	45.16	8.70	0.75		
RT	55+41.89	FE #34	37.05	33.95	2.66	94.43	2	3	67.90	10.49	1.13		
LT	81+71.22	FE #36	28.27	20.81	3.00	73.62	2	3	41.62	8.18	0.69		
LT	95+93.09	FE #37	25.76	19.14	3.00	67.35	2	3	38.28	7.48	0.64		
RT	99+00.98	FE #38	29.98	22.84	3.00	79.23	2	3	45.68	8.80	0.76		
RT	116+03.20	FE #39	41.85	34.71	3.00	114.84	2	3	69.42	12.76	1.16		
LT	120+89.92	FE #40	25.84	20.76	3.00	69.90	2	3	41.52	7.77	0.69		
RT	121+42.94	FE #41	32.58	23.79	2.75	77.51	2	3	47.58	8.61	0.79		
RT	122+18.68	FE #42	46.48	37.94	3.00	126.63	2	3	75.88	14.07	1.26		
* LT	136+00.23	FE #45	59.28	57.37	3.00	189.62	2	3	114.74	21.07	1.91		
LT	174+42.95	FE #46	27.95	22.32	3.00	75.41	2	3	44.64	8.38	0.74		
LT	187+87.96	FE #47	27.62	20.00	3.00	71.43	2	3	40.00	7.94	0.67		
RT	187+88.16	FE #48	30.38	25.42	3.00	83.70	2	3	50.84	9.30	0.85		
RT	201+02.06	FE #49	31.22	25.27	2.92	82.48	2	3	50.54	9.16	0.84		
RT	220+22.52	FE #52	30.43	23.80	3.00	81.35	2	3	47.60	9.04	0.79		
RT	221+69.12	FE #53	24.21	18.36	3.00	63.86	2	3	36.72	7.10	0.61		
LT	224+58.55	FE #54	28.21	24.12	3.00	78.50	2	3	48.24	8.72	0.80		
RT	227+53.93	FE #55	28.21	21.92	3.00	75.20	2	3	43.84	8.36	0.73		
RT	240+73.40	FE #56	28.13	21.58	3.00	74.57	2	3	43.16	8.29	0.72		
LT	240+77.40	FE #57	28.04	21.82	3.00	74.79	2	3	43.64	8.31	0.73		
LT	267+40.08	FE #59	27.88	19.84	3.00	71.58	2	3	39.68	7.95	0.66		
RT	280+63.55	FE #60	29.55	23.58	3.00	79.70	2	3	47.16	8.86	0.79		
LT	280+67.97	FE #61	25.30	17.71	3.00	64.52	2	3	35.42	7.17	0.59		
RT	287+32.33	FE #62	25.73	22.08	2.75	65.74	2	3	44.16	7.30	0.74		
LT	289+60.93	FE #63	50.00	41.31	3.00	136.97	2	3	82.62	15.22	1.38		
RT	307+16.69	FE #65	37.06	31.87	3.00	103.40	2	3	63.74	11.49	1.06		
LT	307+29.49	FE #66	33.16	28.09	3.00	91.88	2	3	56.18	10.21	0.94		
TOTALS =										496.75	6.15	45.50	0.82
ROUNDED COUNTY TOTALS =										497.00	7.00	46.00	1.00
TOTALS =										504.00		47.00	

\*AREAS MEASURED IN CADD  
 MATERIAL REMOVAL UNDER HMA APRON REQUIRED TO MEET DEPTH NEEDED FOR SHOULDER INSTALLATION INCLUDED IN COST OF PAVEMENT REMOVAL  
 48102100 QUANTITIES CONTINUE ON SHEET 36  
 44000100 QUANTITIES ON SHEETS 36 TO 38

STA	LOCATION	REASON FOR RAMP	RAISE/DROPOFF HEIGHT IN	* RAMP LENGTH FOOT	RAMP WIDTH FOOT	40600990	
						EDGAR	DOUGLAS
						TEMPORARY RAMP	
						SQ YD	
646+00.00	SOUTHERN PROJECT LIMITS	ML MILLED 2.75"	2.75	9.20	24	24.50	
646+00.00	SOUTHERN PROJECT LIMITS	ML BINDER PLACED	1.50	5.00	24	13.30	
646+44.19	E 1800TH RD	ML MILLED 2.75"	2.75	9.20	20	20.40	
646+44.19	E 1800TH RD	ML BINDER PLACED	1.50	5.00	20	11.10	
646+44.19	E 1800TH RD	SIDEROAD MILLED	1.50	5.00	20	11.10	
699+93.29	E 1900TH RD (EAST)	ML MILLED 2.75"	2.75	9.20	20	20.40	
699+93.29	E 1900TH RD (EAST)	ML BINDER PLACED	1.50	5.00	20	11.10	
699+93.29	E 1900TH RD (EAST)	SIDEROAD MILLED	1.50	5.00	20	11.10	
699+93.29	E 1900TH RD (WEST)	ML MILLED 2.75"	2.75	9.20	20	20.40	
699+93.29	E 1900TH RD (WEST)	ML BINDER PLACED	1.50	5.00	20	11.10	
699+93.29	E 1900TH RD (WEST)	SIDEROAD MILLED	1.50	5.00	20	11.10	
753+33.16	E 2000TH RD (EAST)	ML MILLED 2.75"	2.75	9.20	20	20.40	
753+33.16	E 2000TH RD (EAST)	ML BINDER PLACED	1.50	5.00	20	11.10	
753+33.16	E 2000TH RD (EAST)	SIDEROAD MILLED	1.50	5.00	20	11.10	
753+33.16	E 2000TH RD (WEST)	ML MILLED 2.75"	2.75	9.20	20	20.40	
753+33.16	E 2000TH RD (WEST)	ML BINDER PLACED	1.50	5.00	20	11.10	
753+33.16	E 2000TH RD (WEST)	SIDEROAD MILLED	1.50	5.00	20	11.10	
806+85.58	E 2100TH RD (EAST)	ML MILLED 2.75"	2.75	9.20	20	20.40	
806+85.58	E 2100TH RD (EAST)	ML BINDER PLACED	1.50	5.00	20	11.10	
806+85.58	E 2100TH RD (EAST)	SIDEROAD MILLED	1.50	5.00	20	11.10	
806+85.58	E 2100TH RD (WEST)	ML MILLED 2.75"	2.75	9.20	20	20.40	
806+85.58	E 2100TH RD (WEST)	ML BINDER PLACED	1.50	5.00	20	11.10	
806+85.58	E 2100TH RD (WEST)	SIDEROAD MILLED	1.50	5.00	20	11.10	
873+15.10	**US-36 (EAST-BOUND)	ML MILLED 2.75"	2.75	9.20	138	141.10	
873+15.10	**US-36 (EAST-BOUND)	ML BINDER PLACED	1.50	5.00	138	76.70	
00+31.93	**US-36 (WEST-BOUND)	ML MILLED 2.75"	2.75	9.20	133		136.00
00+31.93	**US-36 (WEST-BOUND)	ML BINDER PLACED	1.50	5.00	133		73.90
28+78.70	E 2250TH RD	ML MILLED 2.75"	2.75	9.20	20	20.40	
28+78.70	E 2250TH RD	ML BINDER PLACED	1.50	5.00	20	11.10	
28+78.70	E 2250TH RD	SIDEROAD MILLED	1.50	5.00	20	11.10	
28+78.70	E CO RD 1000N	ML MILLED 2.75"	2.75	9.20	20	20.40	
28+78.70	E CO RD 1000N	ML BINDER PLACED	1.50	5.00	20	11.10	
28+78.70	E CO RD 1000N	SIDEROAD MILLED	1.50	5.00	20	11.10	
71+26.65	1075 N	ML MILLED 2.75"	2.75	9.20	20	20.40	
71+26.65	1075 N	ML BINDER PLACED	1.50	5.00	20	11.10	
71+26.65	1075 N	SIDEROAD MILLED	1.50	5.00	20	11.10	
81+69.88	2350N	ML MILLED 2.75"	2.75	9.20	20	20.40	
81+69.88	2350N	ML BINDER PLACED	1.50	5.00	20	11.10	
81+69.88	2350N	SIDEROAD MILLED	1.50	5.00	20	11.10	
108+25.78	E CO RD 1150N	ML MILLED 2.75"	2.75	9.20	20	20.40	
108+25.78	E CO RD 1150N	ML BINDER PLACED	1.50	5.00	20	11.10	
108+25.78	E CO RD 1150N	SIDEROAD MILLED	1.50	5.00	20	11.10	
161+33.70	2500N	ML MILLED 2.75"	2.75	9.20	20	20.40	
161+33.70	2500N	ML BINDER PLACED	1.50	5.00	20	11.10	
161+33.70	2500N	SIDEROAD MILLED	1.50	5.00	20	11.10	
161+33.70	E CR 1250N	ML MILLED 2.75"	2.75	9.20	20	20.40	
161+33.70	E CR 1250N	ML BINDER PLACED	1.50	5.00	20	11.10	
161+33.70	E CR 1250N	SIDEROAD MILLED	1.50	5.00	20	11.10	
214+34.18	CR 1350N	ML MILLED 2.75"	2.75	9.20	20	20.40	
214+34.18	CR 1350N	ML BINDER PLACED	1.50	5.00	20	11.10	
214+34.18	CR 1350N	SIDEROAD MILLED	1.50	5.00	20	11.10	
254+10.23	E 2675TH RD	ML MILLED 2.75"	2.75	9.20	20	20.40	
254+10.23	E 2675TH RD	ML BINDER PLACED	1.50	5.00	20	11.10	
254+10.23	E 2675TH RD	SIDEROAD MILLED	1.50	5.00	20	11.10	
254+10.23	E CR 1425N	ML MILLED 2.75"	2.75	9.20	20	20.40	
254+10.23	E CR 1425N	ML BINDER PLACED	1.50	5.00	20	11.10	
254+10.23	E CR 1425N	SIDEROAD MILLED	1.50	5.00	20	11.10	
320+67.34	E 2800TH RD	ML MILLED 2.75"	2.75	9.20	20	20.40	
320+67.34	E 2800TH RD	ML BINDER PLACED	1.50	5.00	20	11.10	
320+67.34	E 2800TH RD	SIDEROAD MILLED	1.50	5.00			

# SCHEDULE OF QUANTITIES

HEADWALL EXTENSION SCHEDULE										
SIDE	STA	THICKNESS IN	HEIGHT IN	LENGTH FT	50800105		54003000		REINFORCEMENT BARS POUND	CONCRETE BOX CULVERT CU YD
					HSIP		HSIP			
					EDGAR	DOUGLAS	EDGAR	DOUGLAS		
RT	654+91.09	8.00	10.00	8.50	30.37			0.20		
LT	654+91.13	8.00	8.00	8.83	29.46			0.20		
RT	675+89.34	8.00	10.00	8.00	27.85			0.20		
LT	675+89.47	8.00	6.00	8.00	25.01			0.10		
RT	686+38.71	8.00	6.00	9.00	28.22			0.20		
LT	686+38.53	8.00	8.00	9.50	32.17			0.20		
RT	703+62.39	8.00	8.00	17.50	59.28			0.30		
LT	703+62.21	8.00	6.00	17.50	56.09			0.30		
RT	723+84.02	8.00	8.00	13.50	45.73			0.30		
LT	723+84.17	8.00	8.00	13.17	43.73			0.30		
RT	733+45.39	8.00	6.00	11.50	36.82			0.20		
LT	733+45.37	8.00	8.00	11.50	38.95			0.20		
RT	770+75.77	8.00	10.00	12.50	44.64			0.30		
LT	770+75.78	8.00	10.00	12.50	44.64			0.30		
RT	793+01.31	8.00	4.00	8.00	23.68			0.10		
LT	793+01.31	8.00	10.00	8.00	27.85			0.20		
RT	801+77.01	8.00	8.00	8.00	26.43			0.20		
LT	801+76.95	8.00	10.00	8.83	31.06			0.20		
RT	13+33.29	8.00	8.00	9.75		32.69			0.20	
LT	13+33.23	8.00	10.00	9.83		34.63			0.30	
RT	126+98.74	8.00	6.00	9.00	28.22			0.20		
LT	126+98.74	8.00	8.00	7.00	23.04			0.20		
RT	296+38.77	8.00	12.00	12.33	57.32			0.40		
LT	296+38.24	8.00	8.00	14.00	46.77			0.30		
TOTALS =					870.00	70.00		5.50	0.50	
ROUNDED COUNTY TOTALS =					870.00	70.00		5.50	0.50	
TOTALS =					940.00			6.00		

HEADWALL WITH WINGWALLS EXTENSION SCHEDULE										
SIDE	STA	THICKNESS IN	HEIGHT IN	NORTH WING LENGTH FT	CENTER LENGTH FT	SOUTH WING LENGTH FT	50800105		54003000	
							HSIP		HSIP	
							EDGAR	DOUGLAS	EDGAR	DOUGLAS
LT	218+15.78	8.00	10.00	6.50	6.00	3.50			17.82	0.40
LT	270+89.81	8.00	6.00	5.00	4.00	5.00			15.38	0.20
TOTALS =									40.00	0.60

FLARED END SECTION			
STA	SIDE	54213660	X0322936
		PRECAST REIN. CONCRETE FLARED END SECTIONS 15"	REMOVE EXISTING FLARED END SECTION
		EACH	EACH
260+43.12	LT	1.00	1.00
TOTAL =		1.00	1.00

GUARDRAIL SCHEDULE																									
S.N.	DIRECTION	SIDE	STRUCTURE CENTER STA	HAZARDOUS SLOPE START STA	HAZARDOUS SLOPE END STA	SHORT RADIUS/ BENT GUARDRAIL RADII FT	APPR LENGTH L1 FT	DEP LENGTH L3 FT	63000001	63000003	63100045	63100087	63100167	63200310	72501000	72501100	78200005	X6310088	X6330725						
									HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP	HSIP
									EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR	EDGAR
									STEEL PLATE BEAM GUARDRAIL TY-A, 6 FT	STEEL PLATE BEAM GUARDRAIL TY-A, 9 FT	TRAFFIC BARRIER TERMINAL TY-2	TRAFFIC BARRIER TERMINAL TY-6A	TRAFFIC BARRIER TERMINAL TY-1 (SPL) TAN	GUARDRAIL REMOVAL FT	TERMINAL MARKER DIRECT APPLIED	TERMINAL MARKER POST MOUNTED	GUARDRAIL REFLECTORS TYPE A	TRAFFIC BARRIER TERMINAL TY-6 SPL	STEEL PLATE BEAM GUARDRAIL SHORT RADIUS FT						
S.N. 023-0018	NB	APPR	54+72.84				147.2	88.3	75.00			1.00	1.00	94.00	1.00		4.00								
S.N. 023-0018	NB	DEP	54+72.84				147.2	88.3	25.00			1.00	1.00	94.00	1.00		4.00								
S.N. 023-0018	SB	APPR	54+72.84				147.2	88.3	75.00			1.00	1.00	94.00	1.00		4.00								
S.N. 023-0018	SB	DEP	54+72.84				147.2	88.3	25.00			1.00	1.00	94.00	1.00		4.00								
S.N. 023-2014	NB	APPR	69+81.89				147.2	88.3	75.00			1.00	1.00	94.00	1.00		4.00								
S.N. 023-2014	NB	DEP	69+81.89				147.2	88.3	25.00			1.00	1.00	94.00	1.00		4.00								
S.N. 023-2014	SB	APPR	69+81.89			22	147.2	88.3	12.50			1.00	1.00	115.00	1.00		4.00								
S.N. 023-2014	SB	DEP	69+81.89				147.2	88.3	25.00			1.00	1.00	94.00	1.00		4.00								
* S.N. 023-2010	NB	APPR	135+27.00			8.16	141.7	85.0	60.00		2.00		1.00	27.00	1.00	2.00	4.00	1.00	12.50						
S.N. 023-2010	NB	DEP	135+27.00				141.7	85.0	25.00			1.00	1.00	178.00	1.00		4.00	1.00							
S.N. 023-2010	SB	APPR	135+27.00			8.8	141.7	85.0	25.00		2.00		1.00	104.00	1.00	2.00	4.00	1.00	25.00						
S.N. 023-2010	SB	DEP	135+27.00				141.7	85.0	25.00			1.00	1.00	177.00	1.00		4.00	1.00							
N/A	NB	BOTH	243+86.00	243+30.00	244+40.00		158.3	95.0		300.00			2.00	378.00	2.00		5.00								
N/A	NB	BOTH	270+90.00				166	100.0		200.00			2.00												
N/A	SB	BOTH	270+90.00				166	100.0		200.00			2.00												
TOTALS =									472.50	700.00	4.00	8.00	18.00	1637.00	14.00	4.00	53.00	4.00		37.50					

\* TRAFFIC BARRIER TERMINAL TYPE 6A SPL SHALL BE BENT BETWEEN POSTS 1-11 WITH A RADIUS OF 16FT

MODEL: \\MODEL\MAMES  
FILE: \\mames\pww\pww\dot\Documents\DOT - Office\Drawings\Project\057007\ACAD\Drawings\057007\24-ht-Schedule.dwg

USER NAME = Piersontj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE. 836	SECTION **	COUNTY *	TOTAL SHEETS 224	SHEET NO. 39
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -		SCALE: SHEET 20 OF 24 SHEETS STA. TO STA.				CONTRACT NO. 70D74				
PLOT DATE = 3/25/2020	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
**(116,117)RS-5, D5 HSIP 2020-1 * DOUGLAS & EDGAR												







# SCHEDULE OF QUANTITIES

EDGE OF PAVEMENT MARKING SCHEDULE															
COUNTY	ROUTE	STATION	TO	STATION	LENGTH FOOT	70300220 TEMPORARY PAVEMENT MARKING LINE 4"				70300100			70300150	X07327980	X7830070
						78001110		78000200		SHORT TERM PAVEMENT MARKING			SHORT TERM PAVEMENT REMOVAL	PAVEMENT MKG REM WATER BLAST	GROOVING RECESSED PAVEMENT MARKING 5"
						PAINT PAVEMENT MARKING - LINE 4"	SOLID	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	SOLID	NO.	NO.	FOOT	NO.	NO.	FOOT
NO.	(WHITE) FOOT	NO.	(WHITE) FOOT	NO.	APP	FOOT	NO.	APP	FOOT	SQ FT	SQ FT	FOOT			
<b>NB EOP PM</b>															
EDGAR	IL 49	646+00.00	TO	699+55.04	5,355.0	1.0	5,355.0				1.0	2.0	536.00	176.90	447.00
OMISSION - 1900TH RD															
EDGAR	IL 49	700+33.43	TO	752+98.27	5,264.8	1.0	5,264.8				1.0	2.0	528.00	174.30	440.00
OMISSION - 2000TH RD															
EDGAR	IL 49	753+71.78	TO	806+49.48	5,277.7	1.0	5,277.7				1.0	2.0	528.00	174.30	440.00
OMISSION - 2100TH RD															
EDGAR	IL 49	807+25.42	TO	869+79.20	6,253.8	1.0	6,253.8				1.0	2.0	628.00	207.30	523.00
EDGAR	IL 49	869+79.20	TO	873+14.03	334.8			1.0	334.83	1.0	2.0	36.00	11.90	30.00	334.83
STA EQN US 36															
		873+45.00(BK)	TO	00+00.00(AH)											
DOUGLAS	IL 49	0+31.38	TO	4+36.70	405.3			1.0	405.32	1.0	2.0	44.00	14.60	37.00	405.32
DOUGLAS	IL 49	4+36.61	TO	20+66.52	1,629.9	1.0	1,629.9			1.0	2.0	164.00	54.20	137.00	
OMISSION - RR															
EDGAR	IL 49	26+05.87	TO	26+17.55											
EDGAR	IL 49	26+17.55	TO	28+53.12	235.6	1.0	235.6				1.0	2.0	24.00	8.00	20.00
OMISSION - 2250TH RD															
EDGAR	IL 49	29+08.28	TO	81+42.62	5,234.3	1.0	5,234.3				1.0	2.0	524.00	173.00	437.00
OMISSION - 2350 N RD															
EDGAR	IL 49	82+02.12	TO	160+95.23	7,893.1	1.0	7,893.1				1.0	2.0	792.00	261.40	660.00
OMISSION - 2500 N RD (1250N)															
EDGAR	IL 49	161+68.89	TO	253+76.20	9,207.3	1.0	9,207.3				1.0	2.0	924.00	305.00	770.00
OMISSION - 2675TH RD (1425N)															
EDGAR	IL 49	254+41.95	TO	320+46.33	6,604.4	1.0	6,604.4				1.0	2.0	664.00	219.20	553.00
OMISSION - 2800TH RD (1550N)															
EDGAR	IL 49	320+90.90	TO	321+00.00	9.1	1.0	9.1				1.0	2.0	4.00	1.40	3.00
<b>SB EOP PM</b>															
EDGAR	IL 49	646+00.00		646+07.88	7.88	1.0	7.88				1.0	2.0	4.00	1.40	3.00
OMISSION - 1800TH RD															
EDGAR	IL 49	646+75.13	TO	699+52.62	5,277.49	1.0	5,277.49				1.0	2.0	528.00	174.30	440.00
OMISSION - 1900TH RD															
EDGAR	IL 49	700+31.15	TO	752+97.17	5,266.02	1.0	5,266.02				1.0	2.0	528.00	174.30	440.00
OMISSION - 2000TH RD															
EDGAR	IL 49	753+68.50	TO	806+49.92	5,281.42	1.0	5,281.42				1.0	2.0	532.00	175.60	443.00
OMISSION - 2100TH RD															
EDGAR	IL 49	807+20.13	TO	869+78.49	6,258.36	1.0	6,258.36				1.0	2.0	628.00	207.30	523.00
EDGAR	IL 49	869+78.49	TO	873+16.69	338.20			1.0	338.20	1.0	2.0	36.00	11.90	30.00	338.20
STA EQN US 36															
		873+45.00(BK)	TO	00+00.00(AH)											
DOUGLAS	IL 49	0+32.29	TO	4+36.37	404.08			1.0	404.08	1.0	2.0	44.00	14.60	37.00	404.08
DOUGLAS	IL 49	4+36.37	TO	20+66.52	1,630.15	1.0	1,630.15			1.0	2.0	164.00	54.20	137.00	
OMISSION - RR															
EDGAR	IL 49	26+05.87	TO	26+17.55											
EDGAR	IL 49	26+17.55	TO	28+49.40	231.85	1.0	231.85				1.0	2.0	24.00	8.00	20.00
EDGAR	IL 49	29+05.74	TO	70+98.50	4,192.76	1.0	4,192.76				1.0	2.0	420.00	138.60	350.00
OMISSION - 1075 N RD															
EDGAR	IL 49	71+51.10	TO	107+93.89	3,642.79	1.0	3,642.79				1.0	2.0	368.00	121.50	307.00
OMISSION - 1150 N RD															
EDGAR	IL 49	108+52.68	TO	161+05.16	5,252.48	1.0	5,252.48				1.0	2.0	528.00	174.30	440.00
OMISSION - 1250 N RD (2500N)															
EDGAR	IL 49	161+64.58	TO	214+06.16	5,241.58	1.0	5,241.58				1.0	2.0	528.00	174.30	440.00
OMISSION - 1350 N RD															
EDGAR	IL 49	214+63.19	TO	253+81.14	3,917.95	1.0	3,917.95				1.0	2.0	392.00	129.40	327.00
OMISSION - 1425 N RD (2675)															
EDGAR	IL 49	254+42.14	TO	320+43.53	6,601.39	1.0	6,601.39				1.0	2.0	664.00	219.20	553.00
OMISSION - 1550N RD (2800)															
EDGAR	IL 49	254+42.14		320+43.53	6,601.39	1.0	6,601.39				1.0	2.0	664.00	219.20	553.00
NORTHBOUND SUB-TOTALS=							52,965.08		740.15			5,396.00	1,781.50	4,497.00	740.15
SOUTHBOUND SUB-TOTALS=							59,403.51		742.28			6,052.00	1,998.10	5,043.00	742.28
SUB-TOTALS=							112,368.59		1,482.43			11,448.00	3,779.60	9,540.00	1,482.43
EDGAR TOTALS =							109,109.00		673.00			11,032.00	3,642.00	9,192.00	673.00
DOUGLAS TOTALS =							3,260.00		809.00			416.00	138.00	348.00	809.00
TOTALS=							112,369.00		1,482.00			11,448.00	3,780.00	9,540.00	1,482.00

70300220,  
78001110,  
78000200,  
70300100,  
70300150,  
X7830070,  
78100100,  
78300200,  
X0327980  
QUANTITIES  
ON SHEETS  
41 TO 43

USER NAME = PiersonTJ DRAWN - PLOT SCALE = 40.0000' / in. PLOT DATE = 3/25/2020	DESIGNED - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>	F.A.P. RTE. 836 SECTION ** COUNTY - ILLINOIS FED. AID PROJECT	TOTAL SHEETS 224 SHEET NO. 42 CONTRACT NO. 70D74
			SCALE:	SHEET 23 OF 24 SHEETS	STA. TO STA.	<small>** (116,117)RS-5, D5 HSIP 2020-1 * DOUGLAS &amp; EDGAR</small>

MODEL: I:\MODEL\MAR15  
 FILE: I:\MAR15\_Plan\Illinois\pwr\WIDOT\Documents\DOT\_Office\Drawtct\_5\Projects\057007\ACADD\Bata\Design\057007\24-ht-Schedule.dgn

# SCHEDULE OF QUANTITIES

PAVEMENT SYMBOLS SCHEDULE								
COUNTY	LOCATION	70300240	70300260	70300280	70300210			X0327980
		TEMP PVT MK LINE 6" FOOT	TEMP PVT MK LINE 12" FOOT	TEMP PVT MK LINE 24" FOOT	TEMP PVT MK LTR & SYM			
					ARROW SQ FT	RR SQ FT	X SQ FT	
		78000400	78000600	78000650	78000100			
		THERMOPLASTIC PVMNT MRK LINE 6" WHITE SOLID FOOT	THERMOPLASTIC PVMNT MRK LINE 12" WHITE SOLID FOOT	THERMOPLASTIC PVMNT MRK LINE 24" WHITE SOLID FOOT	THERMOPLASTIC PVMNT MRK LTR & SYM			
					ARROW SQ FT	RR SQ FT	X SQ FT	
		X7830074	X7830078	X7830090	X7830060			
		GROOVING RECESSED PAVEMENT MARKING, 7"	GROOVING RECESSED PAVEMENT MARKING, 13"	GROOVING RECESSED PAVEMENT MARKING, 25"	GROOVING RECESSED PVMNT MRK LTR & SYM			PAVEMENT MKG REM WATER BLAST
					ARROW SQ FT	RR SQ FT	X SQ FT	SQ FT
EDGAR	SOUTH EAST ISLAND	136.00	81.00					20.00
EDGAR	SOUTH WEST ISLAND	145.00	69.00					20.00
EDGAR	WEST SIDE TURN LANE			18.00				3.00
EDGAR	EAST SIDE TURN LANE			18.00				3.00
EDGAR	WEST BOUND TURN LANE			24.00				3.00
EDGAR	WEST BOUND TURN LANE				46.80			7.00
DOUGLAS	NORTH EAST ISLAND	149.00	78.00					20.00
DOUGLAS	NORTH WEST ISLAND	155.00	97.00					23.00
DOUGLAS	WEST SIDE TURN LANE			18.00				3.00
DOUGLAS	EAST SIDE TURN LANE			18.00				3.00
DOUGLAS	EAST BOUND TURN LANE			26.00				3.00
DOUGLAS	EAST BOUND TURN LANE				46.80			7.00
DOUGLAS	NORTH BOUND			12.00				3.00
DOUGLAS	NORTH BOUND					7.20	54.00	7.00
DOUGLAS	NORTH BOUND			12.00				3.00
EDGAR	SOUTH BOUND			12.00				3.00
EDGAR	SOUTH BOUND					7.20	54.00	7.00
EDGAR	SOUTH BOUND			12.00				3.00
	SUB-TOTALS=	585.00	325.00	170.00	93.60	14.40	108.00	141.00
	EDGAR TOTALS=	281.00	150.00	84.00			108.00	69.00
	DOUGLAS TOTALS=	304.00	175.00	86.00			108.00	72.00
	TOTALS=	585.00	325.00	170.00			216.00	141.00

TYPE 2 SURVEY MARKER SCHEDULE							3P
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	EACH	
36.00	1115641.956	10952+56.19	644+64.66	-0.99	MAG NAIL SET PI	1.00	
102.00	1126591.429	10950+60.54	754+15.88	0.42	MAG NAIL SET PI	1.00	
B45	1138518.274	10948+27.23	873+45.00	0.00	DISK-STATION EQ. BACK (B45=A45)	1.00	
105.00	1161908.434	10954+04.98	236+10.87	0.65	MAG NAIL SET PI	1.00	
TOTALS =						4.00	

SURVEY MARKER VAULT SCHEDULE							3P
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION (SECTION CORNERS)	EACH	
203.00	1115822.459	10952+51.63	646+45.21	-2.00	EXISTING VAULT FOUND	1.00	
204.00	1121170.451	10951+47.85	699+94.20	-9.55	MAG NAIL FOUND	1.00	
205.00	1131862.234	10949+44.50	806+87.94	-12.93	EXISTING VAULT FOUND	1.00	
206.00	1134563.338	10948+87.24	833+89.65	-17.35	I.P. FOUND	1.00	
207.00	1138515.162	10948+13.71	873+42.16	-13.58	EXISTING VAULT FOUND	1.00	
208.00	1141175.704	10956+04.69	28+77.18	-5.53	EXISTING VAULT FOUND	1.00	
209.00	1143833.594	10955+84.65	55+35.14	0.73	EXISTING VAULT FOUND	1.00	
210.00	1146470.083	10955+56.34	81+71.78	-1.47	I.P. FOUND	1.00	
211.00	1149123.342	10955+28.20	108+25.19	-3.34	EXISTING VAULT FOUND	1.00	
212.00	1150451.343	10955+14.18	121+53.26	-4.22	EXISTING VAULT FOUND	1.00	
213.00	1154431.796	10954+78.83	161+33.87	-0.17	EXISTING VAULT FOUND	1.00	
214.00	1157077.416	10954+49.10	187+79.65	-3.71	EXISTING VAULT FOUND	1.00	
215.00	1163708.983	10953+84.84	254+11.53	2.37	EXISTING VAULT FOUND	1.00	
216.00	1165028.891	10953+71.51	267+31.50	5.54	MAG NAIL FOUND	1.00	
TOTALS =						14.00	

RAISED RELECTIVE PAVEMENT MARKER ON CURVE SCHEDULE									
PASSING ZONE DESC.	COUNTY	ROUTE	STATION	TO	STATION	LENGTH FOOT	78100100 RAISED REFLECTIVE PAVEMENT MARKER		78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
							1-WAY CRYSTAL EACH	2-WAY CRYSTAL EACH	EACH
	DOUGLAS	IL 49	1+98.64	TO	20+66.52	1,867.88		48.0	48.0
	EDGAR	IL 49	20+66.52	TO	22+18.59	152.07		4.0	4.0
			SUB-TOTALS =				0.00	52.00	52.00
			EDGAR TOTALS =					4.00	4.00
			DOUGLAS TOTALS =					48.00	48.00
			TOTALS =					52.00	52.00

70300220, 78001110, 78000200, 70300100, 70300150, X7830070, 78100100, 78300200, X0327980 QUANTITIES ON SHEETS 41 TO 43

MODEL: I:\MODEL\NAME: FILE: NAME: PROJECT: I:\PROJECTS\057007\AC\DATA\Design\057007\AC\HT-Schedule.dgn

USER NAME = Piersontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET 24 OF 24 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	43
CONTRACT NO. 70D74				
ILLINOIS FED. AID PROJECT				

# CONTROL POINTS

POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION (SECTION CORNERS)	SURVEY MARKER TYPE
202	1110464.233	1095369.257	592+85.70	0.00	EXISTING VAULT FOUND (ALSO = PI KINK #34)	Vault/ COVER ASSEMBLY
203	1115822.459	1095251.629	646+45.21	-2.00	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
204	1121170.451	1095147.847	699+94.20	-9.55	MAG NAIL FOUND	Vault/ COVER ASSEMBLY
205	1131862.234	1094944.503	806+87.94	-12.93	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
206	1134563.338	1094887.240	833+89.65	-17.35	I.P. FOUND	Vault/ COVER ASSEMBLY
207	1138515.162	1094813.712	873+42.16	-13.58	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
208	1141175.704	1095604.690	28+77.18	-5.53	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
209	1143833.594	1095584.645	55+35.14	0.73	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
210	1146470.083	1095556.338	81+71.78	-1.47	I.P. FOUND	Vault/ COVER ASSEMBLY
211	1149123.342	1095528.200	108+25.19	-3.34	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
212	1150451.343	1095514.175	121+53.26	-4.22	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
213	1154431.796	1095478.829	161+33.87	-0.17	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
214	1157077.416	1095449.097	187+79.65	-3.71	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
215	1163708.983	1095384.844	254+11.53	2.37	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY
216	1165028.891	1095371.512	267+31.50	5.54	MAG NAIL FOUND	Vault/ COVER ASSEMBLY
217	1173008.984	1095267.633	347+12.27	1.44	EXISTING VAULT FOUND	Vault/ COVER ASSEMBLY

### 5047\_ALL ALIGNMENT Kansas to US 36

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	SURVEY MARKER TYPE
36	1115641.956	1095256.186	644+64.66	-0.99	MAG NAIL SET PI	TYPE 2
102	1126591.429	1095060.538	754+15.88	0.42	MAG NAIL SET PI	TYPE 2
B45	1138518.274	1094827.232	873+45.00	0.00	DISK-STATION EQ. BACK (B45=A45)	TYPE 2

### 5045\_2 ALIGNMENT US 36 North

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	SURVEY MARKER TYPE
105	1161908.434	1095404.980	236+10.87	0.65	MAG NAIL SET PI	TYPE 2

MODEL: 4\MODEL\MHFS  
FILE: MHFS\_Plan\plan\control.dwg  
PROJECT: 057007\ACAD\DATA\Design\057007\45-HI-Control Points.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**CONTROL POINTS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	44
			CONTRACT NO. 70D74	

SEC 23, T 14 N, R 14 W, 2ND PM

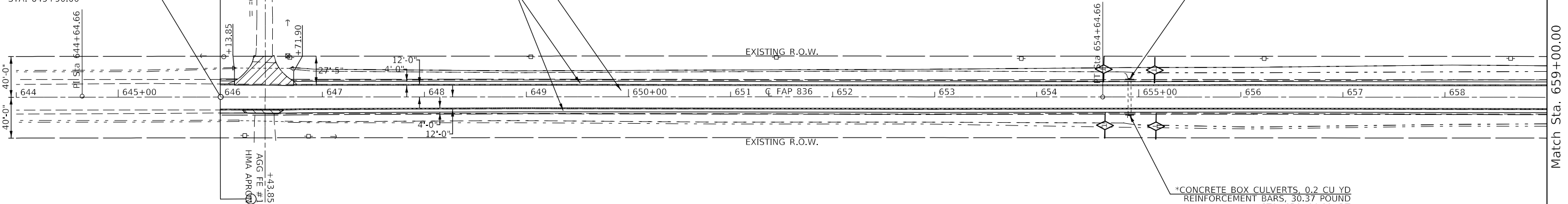
RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

-  PAVEMENT REMOVAL (FOR HMA APRONS)
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK

BEGIN SECTION  
(116,117)RS-5,D5 HSIP 2020-1  
STA. 645+90.00

HMA SURF CSE MIX C, N50, 1 1/2"  
HMA BINDER COURSE, IL-9.5FG, N50, 1 1/4"  
HMA SURF REMOVAL, 2 3/4"  
4'-0" WIDE HMA SHOULDERS, 6 1/2" AND  
SHOULDER RUMBLE STRIPS, 8"

\*CONCRETE BOX CULVERTS, 0.2 CU YD  
REINFORCEMENT BARS, 29.46 POUND  
STA. 654+91.13, LT






EXIST. CURVE 5047\_ALL\_35  
PI STA. = 644+64.66  
Δ = 0° 13' 39" (RT)  
D = 0° 00' 41"  
R = 504,005.24'  
T = 1,000.00'  
L = 2,000.00'  
E = 0.99'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA. = 634+64.66  
P.T. STA. = 654+64.66

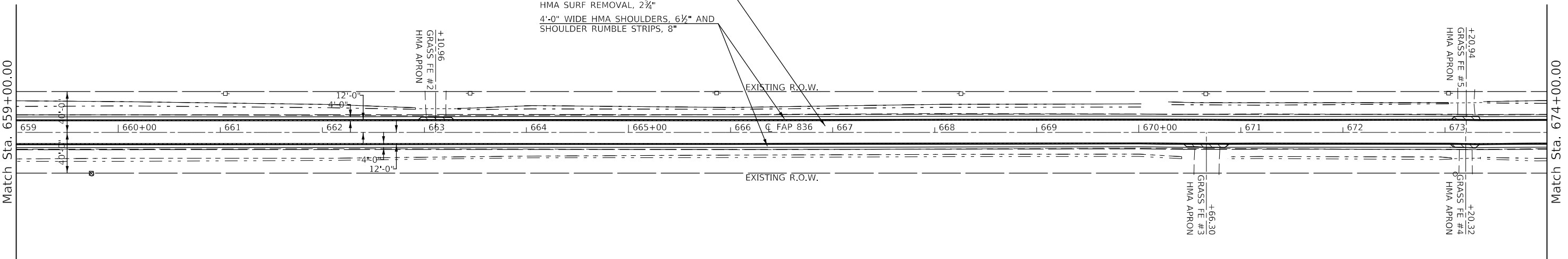
SEC 23, T 14 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF  
DELINEATOR AT CULVERT INCLUDED  
IN HEADWALL EXTENSION PAY ITEMS

SEC 23, T 14 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK

HMA SURF CSE MIX C, N50, 1 1/2"  
HMA BINDER COURSE, IL-9.5FG, N50, 1 1/4"  
HMA SURF REMOVAL, 2 3/4"  
4'-0" WIDE HMA SHOULDERS, 6 1/2" AND  
SHOULDER RUMBLE STRIPS, 8"



SEC 23, T 14 N, R 14 W, 2ND PM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: 1" = 50' SHEET 1 OF 19 SHEETS STA. 644+00.00 TO STA. 674+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	45
CONTRACT NO. 70D74				

MODEL: \\MODEL\MRF5  
FILE NAME: P:\pub\mrf5\057007\AC\05\05\05\057007\24\H-D\B\14\_50.dgn

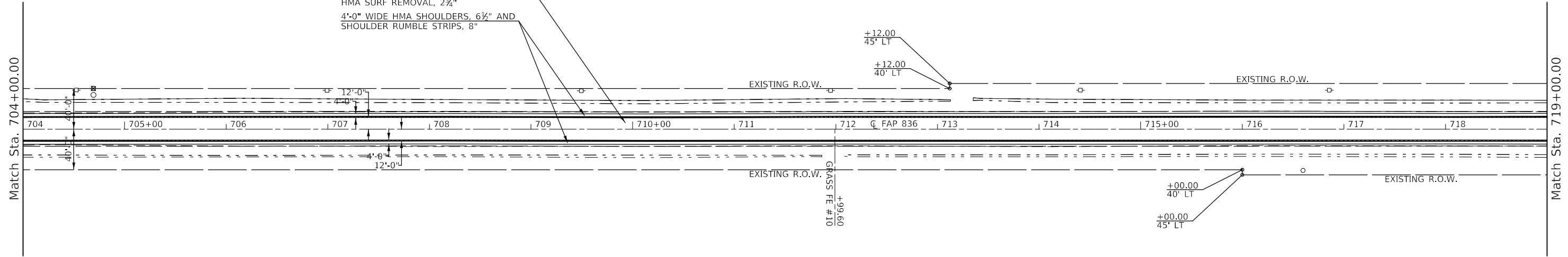


SEC 14, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)

HMA SURF CSE MIX C, N50, 1½"  
HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
HMA SURF REMOVAL, 2¾"  
4'-0" WIDE HMA SHOULDERS, 6½" AND  
SHOULDER RUMBLE STRIPS, 8"



SEC 14, T 15 N, R 14 W, 2ND PM

SEC 14, T 15 N, R 14 W, 2ND PM

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK

HMA SURF CSE MIX C, N50, 1½"  
HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
HMA SURF REMOVAL, 2¾"  
4'-0" WIDE HMA SHOULDERS, 6½" AND  
SHOULDER RUMBLE STRIPS, 8"

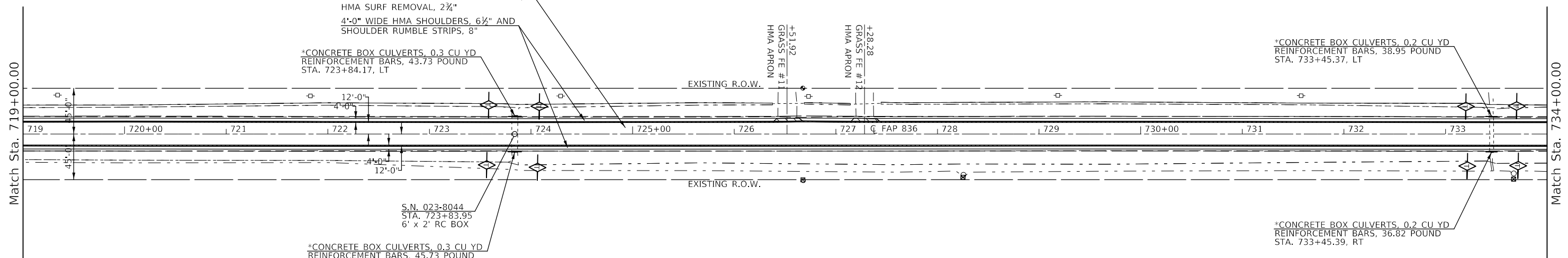
\*CONCRETE BOX CULVERTS, 0.3 CU YD  
REINFORCEMENT BARS, 43.73 POUND  
STA. 723+84.17, LT

\*CONCRETE BOX CULVERTS, 0.2 CU YD  
REINFORCEMENT BARS, 38.95 POUND  
STA. 733+45.37, LT

S.N. 023-8044  
STA. 723+83.95  
6' x 2' RC BOX

\*CONCRETE BOX CULVERTS, 0.3 CU YD  
REINFORCEMENT BARS, 45.73 POUND  
STA. 723+84.02, RT

\*CONCRETE BOX CULVERTS, 0.2 CU YD  
REINFORCEMENT BARS, 36.82 POUND  
STA. 733+45.39, RT



SEC 14, T 15 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF  
DELINEATOR AT CULVERT INCLUDED  
IN HEADWALL EXTENSION PAY ITEMS

MODEL: \\MODEL\MARF... FILE NAME: ... PROJECT: ...

USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION




IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 3 OF 19 SHEETS STA. 704+00.00 TO STA. 734+00.00

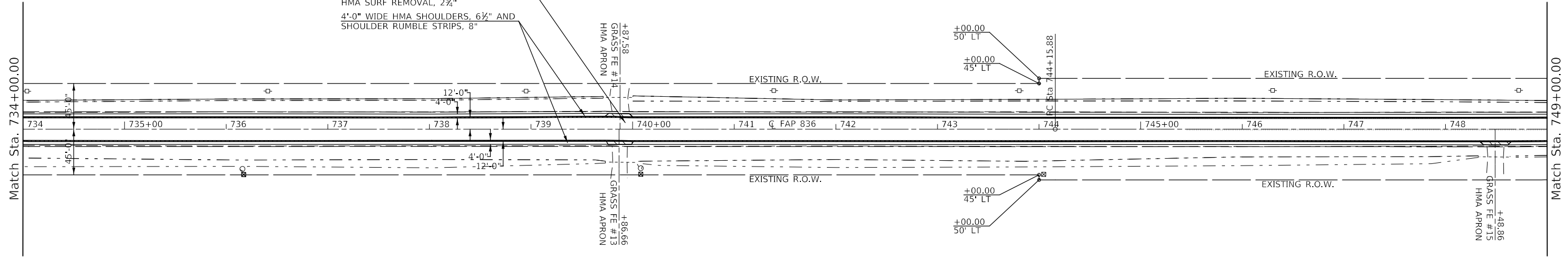
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**		224	47
CONTRACT NO. 70D74				

SEC 14, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.




-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)

HMA SURF CSE MIX C, N50, 1½"  
HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
HMA SURF REMOVAL, 2¾"  
4'-0" WIDE HMA SHOULDERS, 6½" AND  
SHOULDER RUMBLE STRIPS, 8"

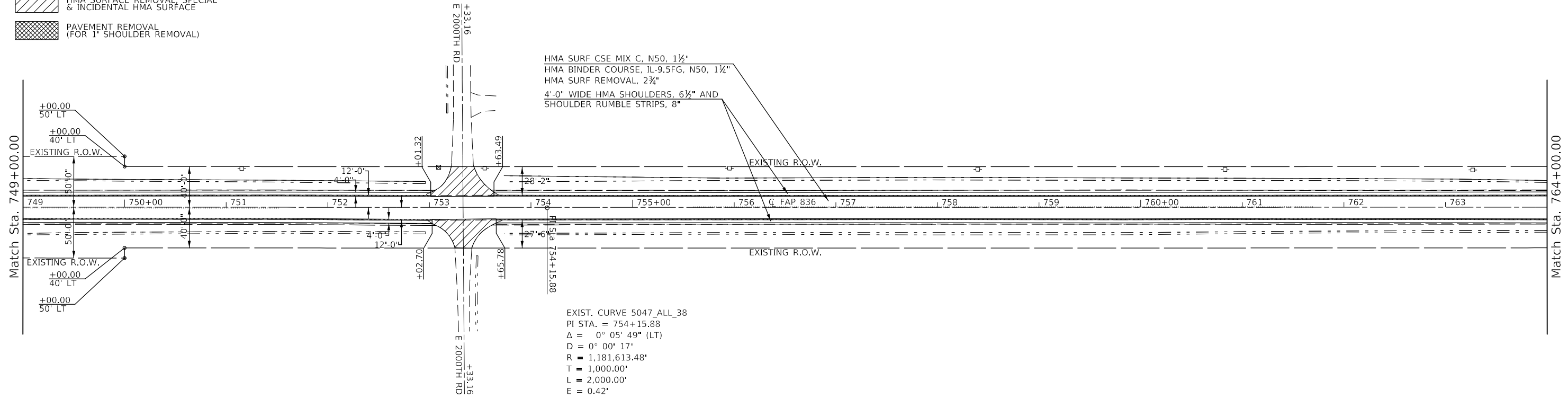


SEC 14, T 15 N, R 14 W, 2ND PM

SEC 11, T 15 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)

HMA SURF CSE MIX C, N50, 1½"  
HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
HMA SURF REMOVAL, 2¾"  
4'-0" WIDE HMA SHOULDERS, 6½" AND  
SHOULDER RUMBLE STRIPS, 8"



EXIST. CURVE 5047\_ALL\_38  
PI STA. = 754+15.88  
Δ = 0° 05' 49" (LT)  
D = 0° 00' 17"  
R = 1,181,613.48'  
T = 1,000.00'  
L = 2,000.00'  
E = 0.42'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA. = 744+15.88  
P.T. STA. = 764+15.88

SEC 14, T 15 N, R 14 W, 2ND PM

SEC 11, T 15 N, R 14 W, 2ND PM

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FILE: \\MARF\_Plan\Illinois\gov\PI\DOT\Documents\DOT\_Offices\Illinet\5\Projects\057007\AC\AddData\Design\057007\Plan\H-DBR\14\_50.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 4 OF 19 SHEETS STA. 734+00.00 TO STA. 764+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	48
CONTRACT NO. 70D74				

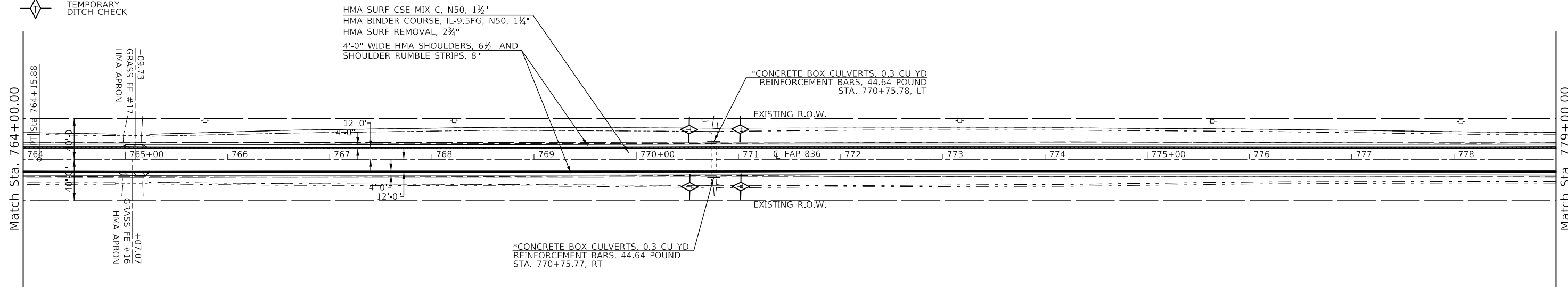


SEC 11, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.



- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK

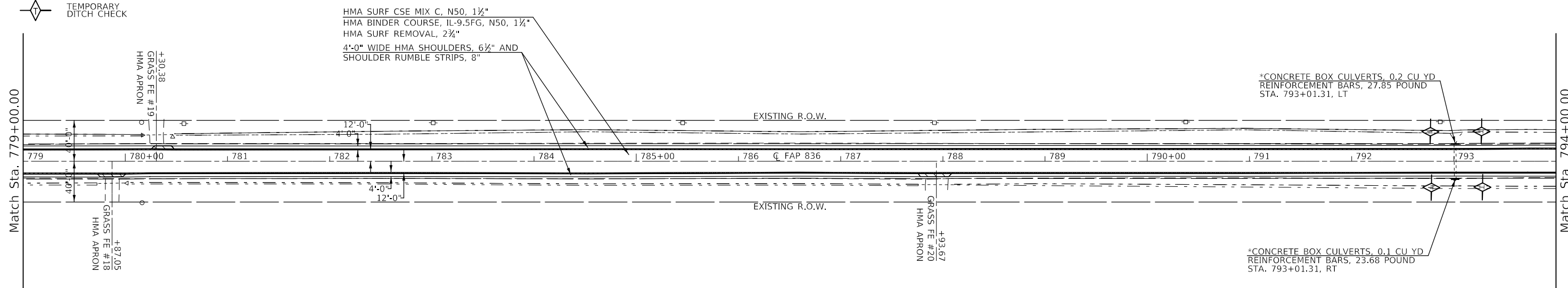


SEC 11, T 15 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF  
DELINEATOR AT CULVERT INCLUDED  
IN HEADWALL EXTENSION PAY ITEMS



- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK



SEC 11, T 15 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF  
DELINEATOR AT CULVERT INCLUDED  
IN HEADWALL EXTENSION PAY ITEMS

MODEL: \\MODEL\MARF... FILE NAME: ... PROJECT: ...

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 5 OF 19 SHEETS STA. 764+00.00 TO STA. 794+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	49
CONTRACT NO. 70D74				

SEC 11, T 15 N, R 14 W, 2ND PM

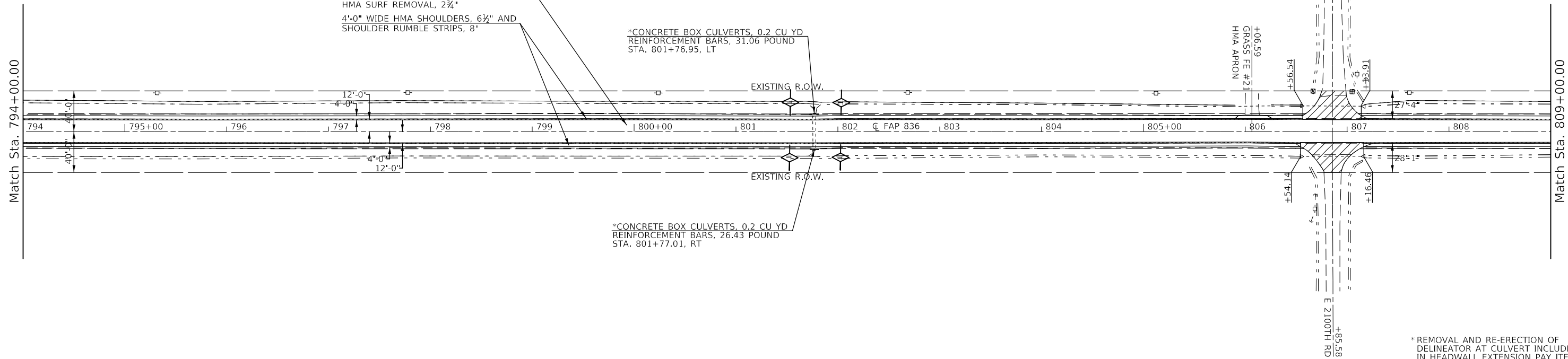
SEC 2, T 15 N, R 14 W, 2ND PM

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK

HMA SURF CSE MIX C, N50, 1½"  
 HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
 HMA SURF REMOVAL, 2¾"  
 4'-0" WIDE HMA SHOULDERS, 6½" AND  
 SHOULDER RUMBLE STRIPS, 8"

\*CONCRETE BOX CULVERTS, 0.2 CU YD  
 REINFORCEMENT BARS, 31.06 POUND  
 STA. 801+76.95, LT

\*CONCRETE BOX CULVERTS, 0.2 CU YD  
 REINFORCEMENT BARS, 26.43 POUND  
 STA. 801+77.01, RT



\* REMOVAL AND RE-ERECTION OF  
 DELINEATOR AT CULVERT INCLUDED  
 IN HEADWALL EXTENSION PAY ITEMS

SEC 11, T 15 N, R 14 W, 2ND PM

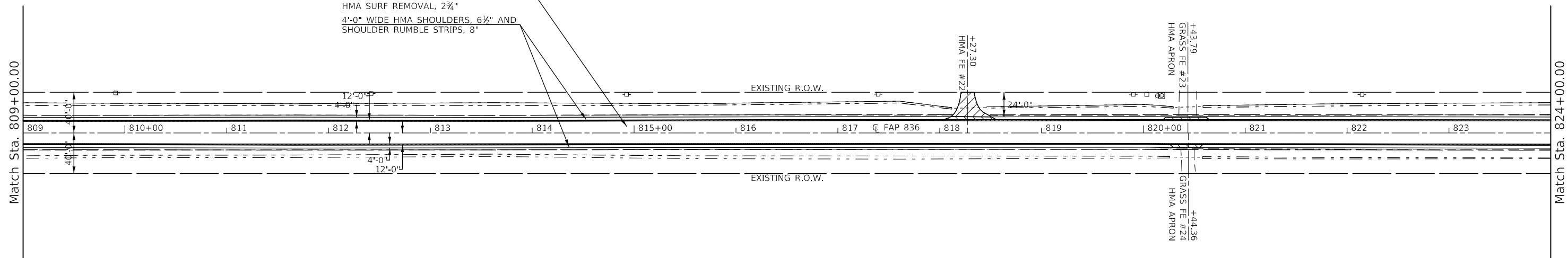
SEC 2, T 15 N, R 14 W, 2ND PM

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)

HMA SURF CSE MIX C, N50, 1½"  
 HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
 HMA SURF REMOVAL, 2¾"  
 4'-0" WIDE HMA SHOULDERS, 6½" AND  
 SHOULDER RUMBLE STRIPS, 8"

SEC 2, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
 ACTUAL LIMITS MAY VARY.



SEC 2, T 15 N, R 14 W, 2ND PM

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: 1" = 50' SHEET 6 OF 19 SHEETS STA. 794+00.00 TO STA. 824+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	50
CONTRACT NO. 70D74				

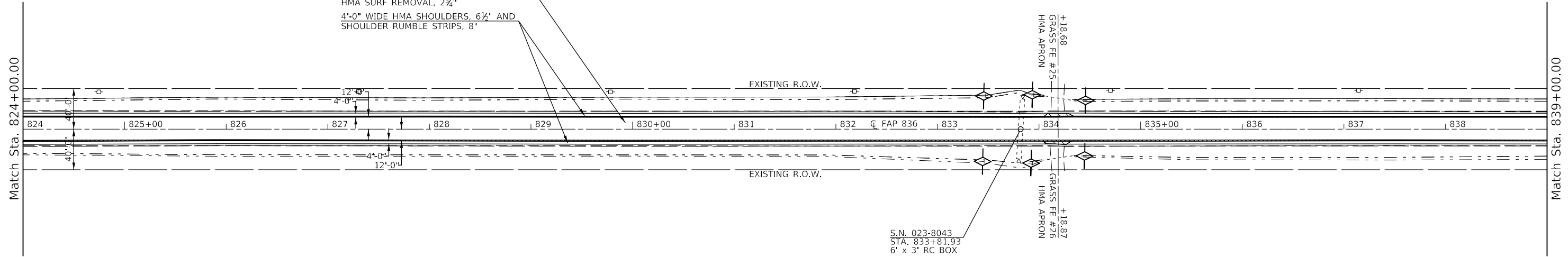
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SEC 2, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)

HMA SURF CSE MIX C, N50, 1½"  
HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
HMA SURF REMOVAL, 2¾"  
4'-0" WIDE HMA SHOULDERS, 6½" AND  
SHOULDER RUMBLE STRIPS, 8"

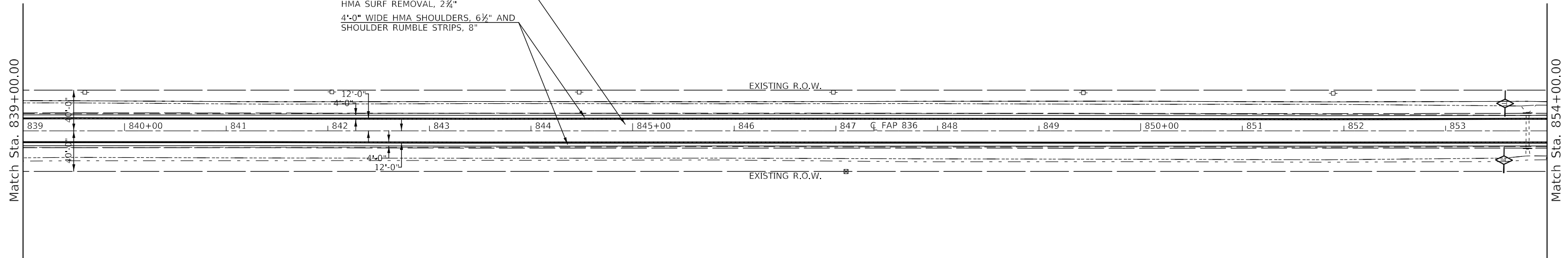


SEC 2, T 15 N, R 14 W, 2ND PM

SEC 2, T 15 N, R 14 W, 2ND PM

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)
- TEMPORARY DITCH CHECK

HMA SURF CSE MIX C, N50, 1½"  
HMA BINDER COURSE, IL-9.5FG, N50, 1¼"  
HMA SURF REMOVAL, 2¾"  
4'-0" WIDE HMA SHOULDERS, 6½" AND  
SHOULDER RUMBLE STRIPS, 8"



SEC 2, T 15 N, R 14 W, 2ND PM

MODEL: I:\MODEL\MRF5  
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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

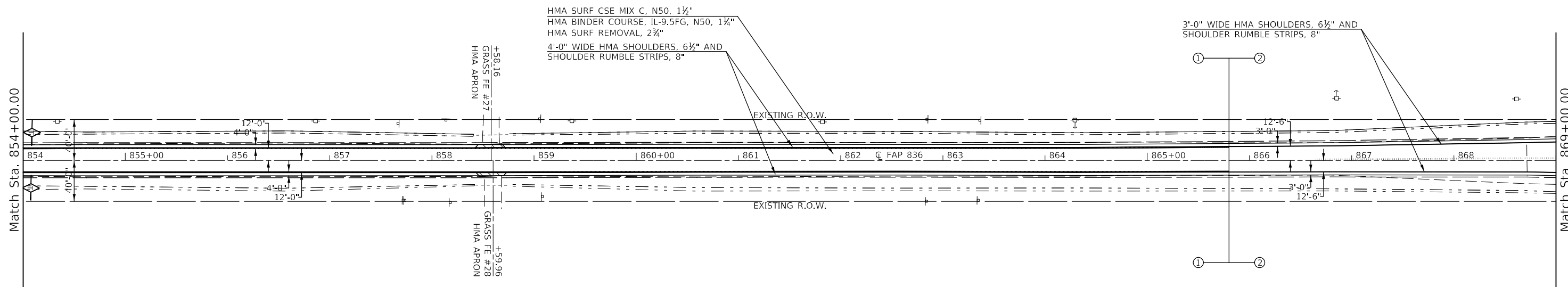
IL-49 PLAN SHEET	
SCALE: 1" = 50'	SHEET 7 OF 19 SHEETS
STA. 824+00.00	TO STA. 854+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	51
CONTRACT NO. 70D74				

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

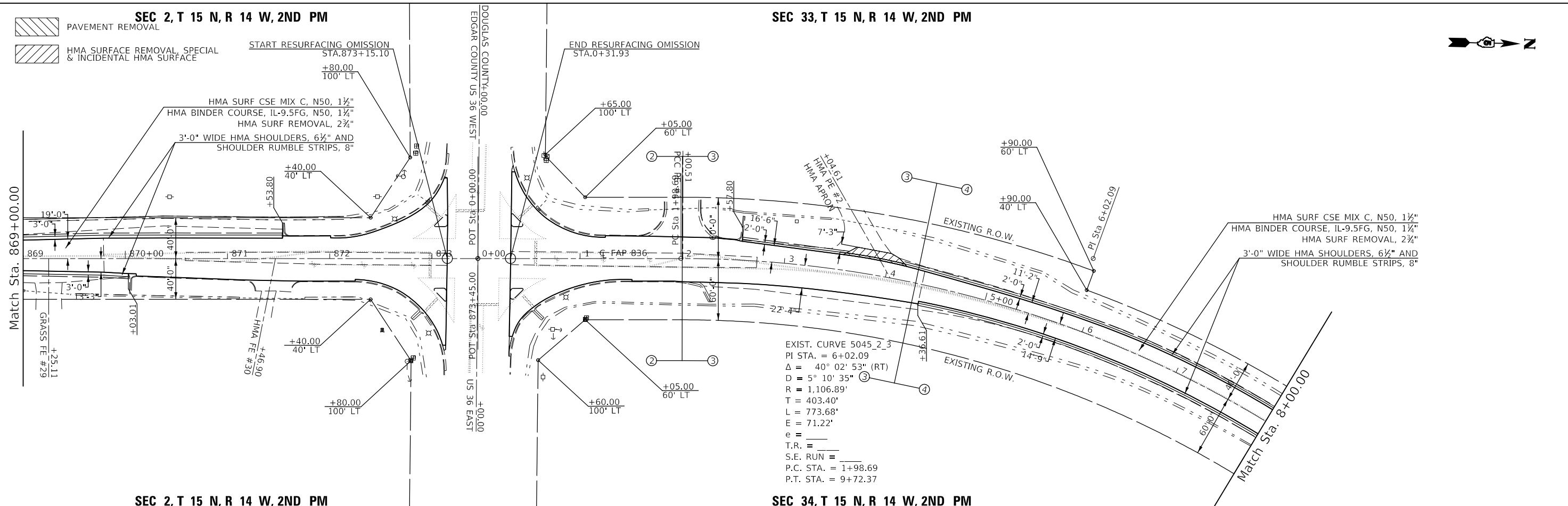


- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- PAVEMENT REMOVAL (FOR 1' SHOULDER REMOVAL)



SEC 2, T 15 N, R 14 W, 2ND PM

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 2, T 15 N, R 14 W, 2ND PM

SEC 34, T 15 N, R 14 W, 2ND PM

USER NAME = PiersonTJ	DESIGNED -	REVISED -
DRAWN -	REVISED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 8 OF 19 SHEETS STA. 854+00.00 TO STA. 8+00.00




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	52
CONTRACT NO. 70D74				

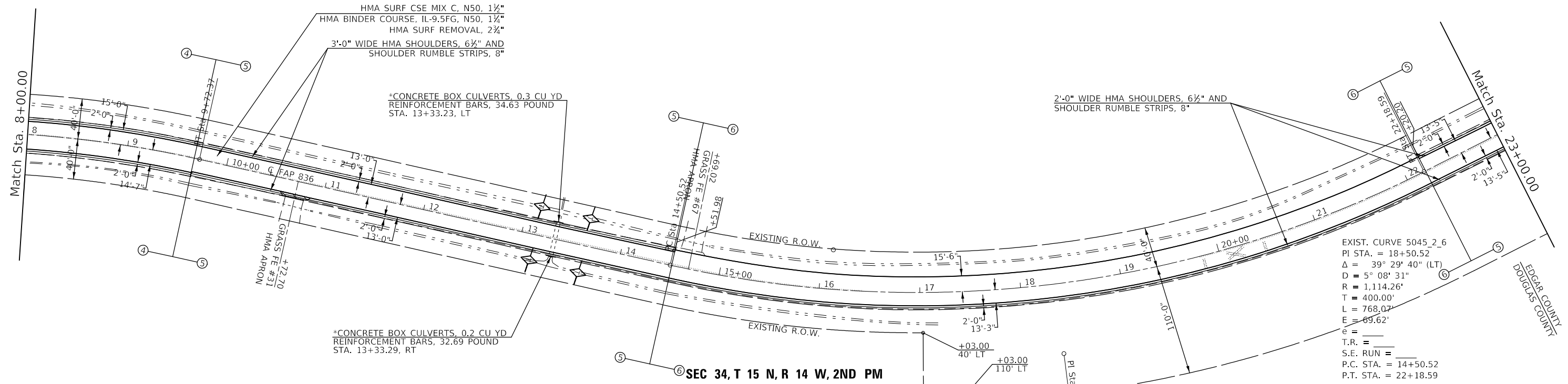
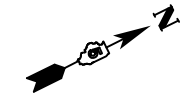
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SEC 33, T 15 N, R 14 W, 2ND PM



RIGHT OF WAY BASED OFF AS-BUILTS. ACTUAL LIMITS MAY VARY.

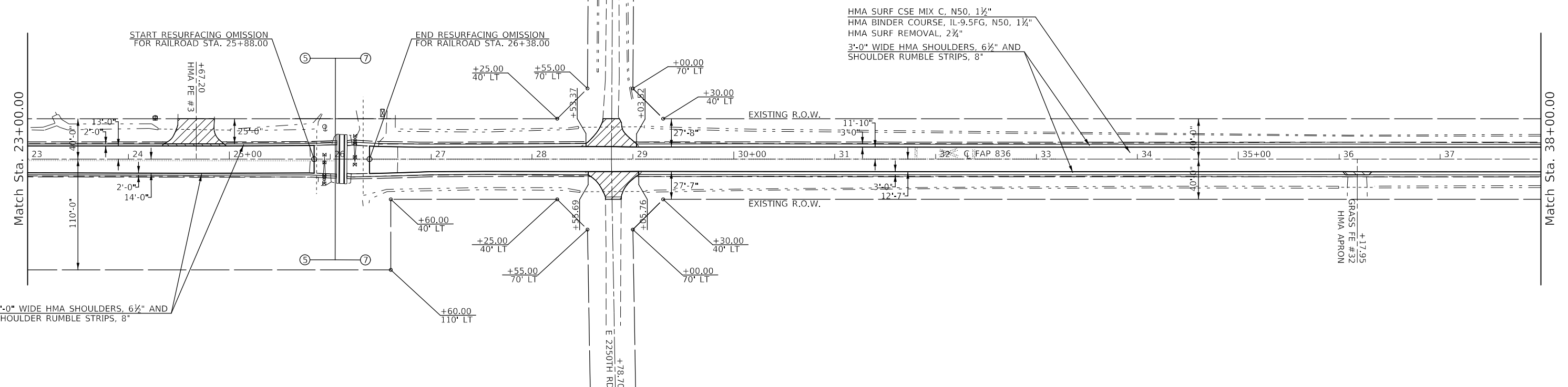
\* REMOVAL AND RE-ERECTION OF DELINEATOR AT CULVERT INCLUDED IN HEADWALL EXTENSION PAY ITEMS

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK



SEC 33, T 15 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 34, T 15 N, R 14 W, 2ND PM

MODEL: \\MODEL\NAME: FILE: \\NAME: PROJECT: 057007\ACADD\Bids\Design\057007\24\H-D\BRLM\_50.dgn

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PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



IL-49 PLAN SHEET

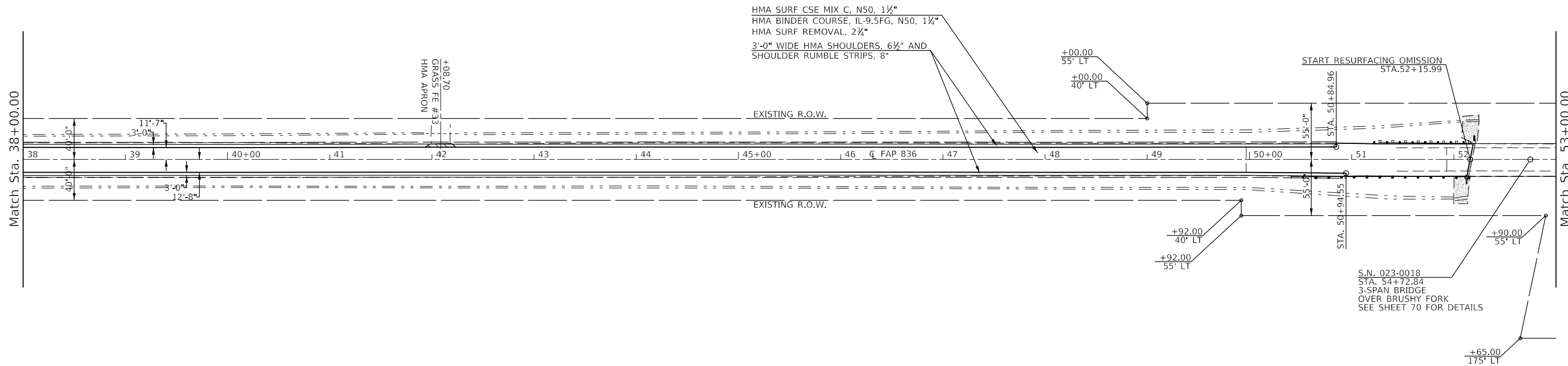
SCALE: 1" = 50' SHEET 9 OF 19 SHEETS STA. 8+00.00 TO STA. 38+00.00

F.A.P. RTE. 836	SECTION **	COUNTY -	TOTAL SHEETS 224	SHEET NO. 53
CONTRACT NO. 70D74				

SEC 33, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.



-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE

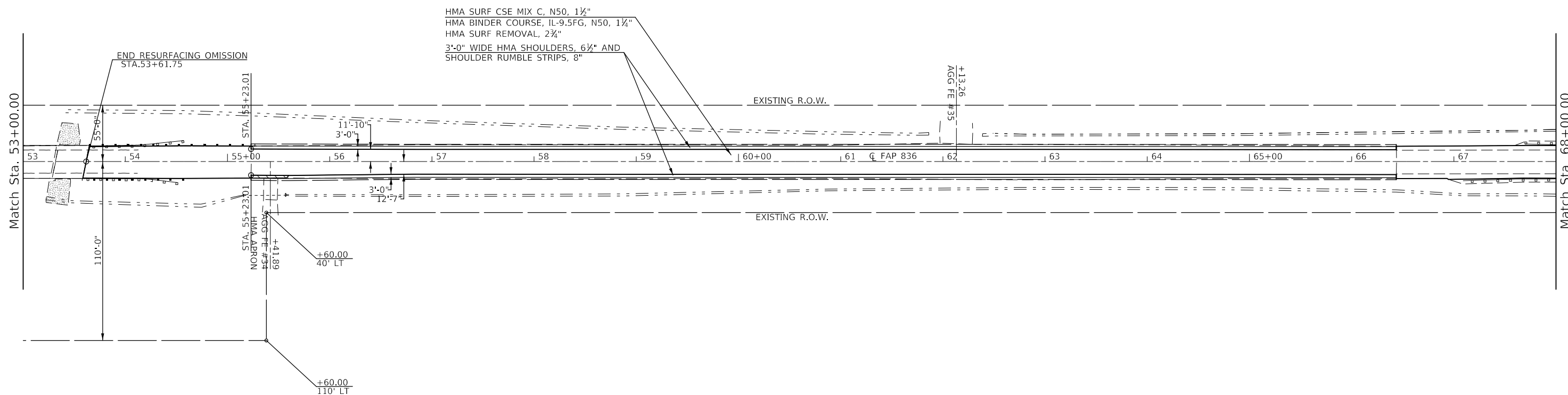


SEC 34, T 15 N, R 14 W, 2ND PM

SEE GUARDRAIL DETAIL ON SHEET 90

SEC 28, T 15 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 27, T 15 N, R 14 W, 2ND PM

SEE GUARDRAIL DETAIL ON SHEET 89 & 90

MODEL: I:\MODEL\MAR16... FILE: MAR16... PROJECT: D57007\ACADD\Bids\Design\057007\74-PL-DRAWING\_50.dwg

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



IL-49 PLAN SHEET

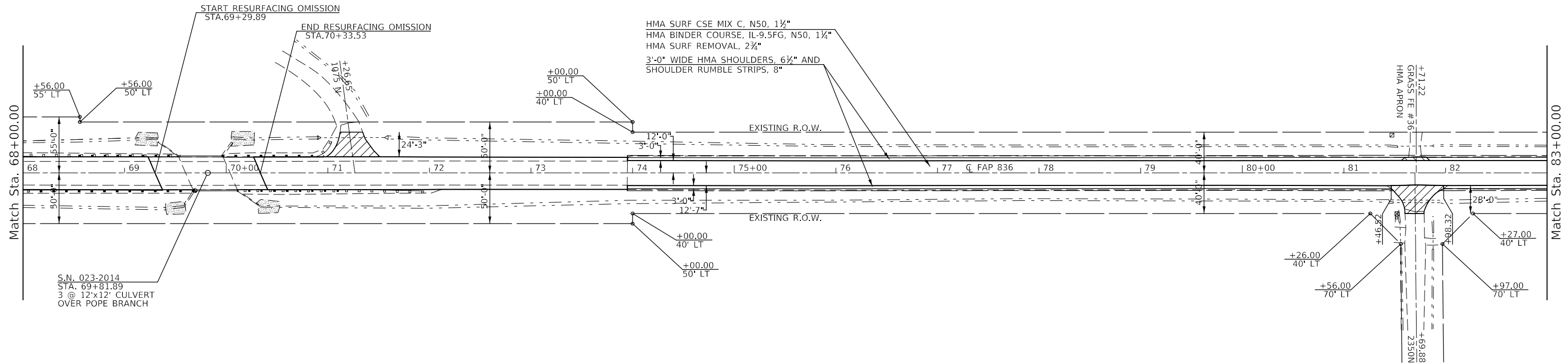
SCALE: 1" = 50' SHEET 10 OF 19 SHEETS STA. 38+00.00 TO STA. 68+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	54
CONTRACT NO. 70D74				

SEC 28, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.



-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE

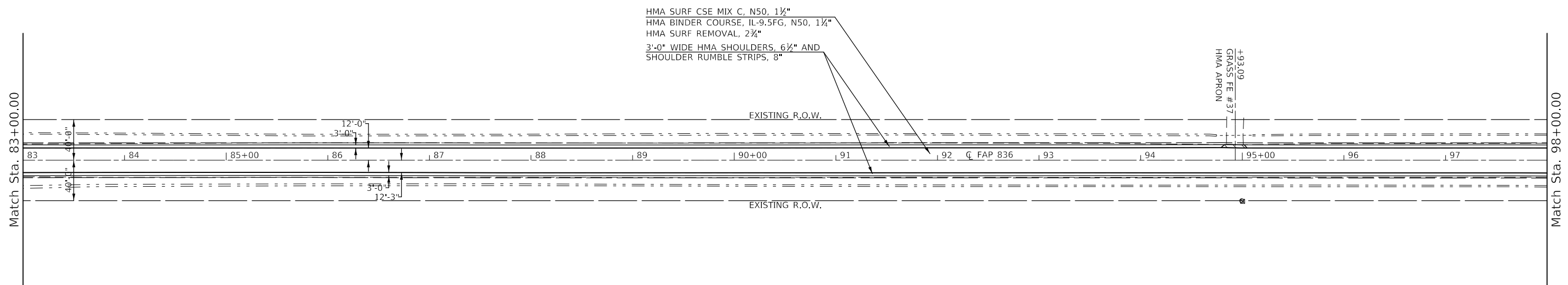


SEC 27, T 15 N, R 14 W, 2ND PM

SEE GUARDRAIL DETAIL ON SHEET 91

SEC 28, T 15 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 27, T 15 N, R 14 W, 2ND PM

MODEL: I:\MODEL\MRF... FILE: MRF... PROJECT: D57007\ACADD\Batt\Design\057007\24-PL-DRAW\150.dgn




USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

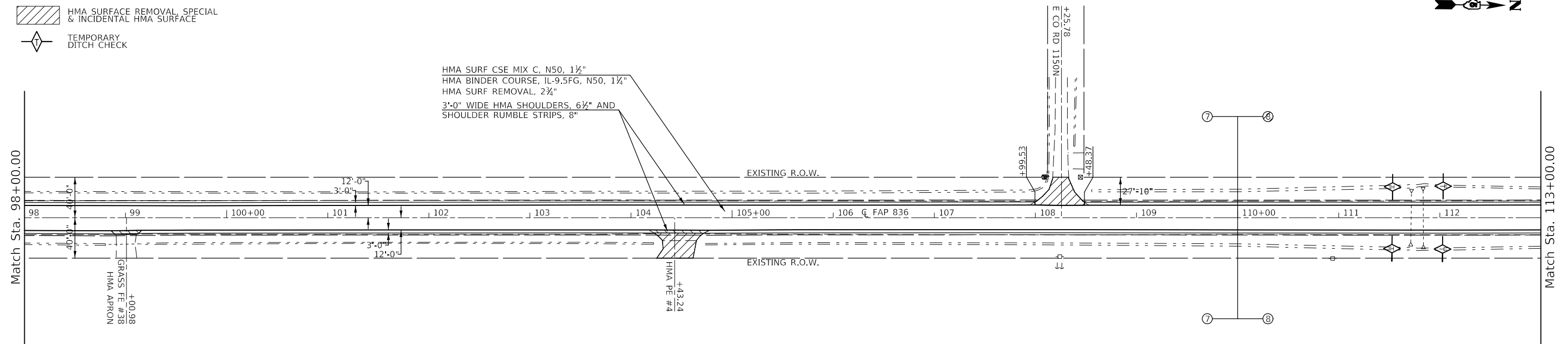
SCALE: 1" = 50' SHEET 11 OF 19 SHEETS STA. 68+00.00 TO STA. 98+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	55
CONTRACT NO. 70D74				

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK




SEC 28, T 15 N, R 14 W, 2ND PM

SEC 21, T 15 N, R 14 W, 2ND PM



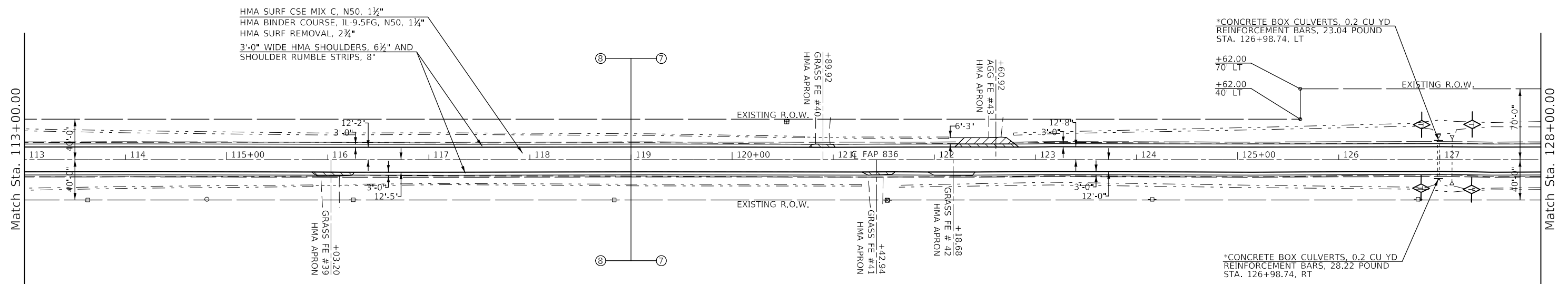
SEC 27, T 15 N, R 14 W, 2ND PM

SEC 22, T 15 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK

SEC 21, T 15 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.



SEC 22, T 15 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF DELINEATOR AT CULVERT INCLUDED IN HEADWALL EXTENSION PAY ITEMS

MODEL: I:\MODEL\MHFE FILE: MHFE\_Plan\116,117\RS-5.dwg PROJECT: D:\Projects\2020\116,117\RS-5\116,117\RS-5.dwg

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 12 OF 19 SHEETS STA. 98+00.00 TO STA. 128+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**		224	56
CONTRACT NO. 70D74				



ILLINOIS FED. AID PROJECT

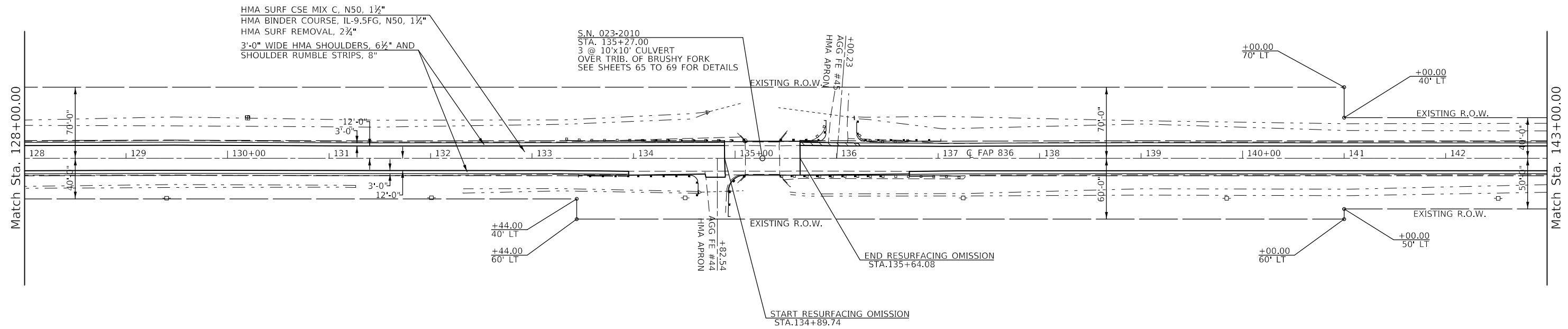
DOUGLAS & EDGAR



SEC 21, T 15 N, R 14 W, 2ND PM



RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

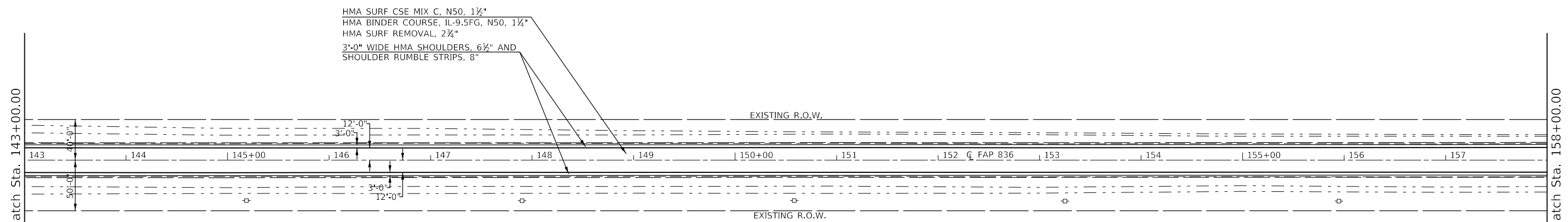
-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 22, T 15 N, R 14 W, 2ND PM

SEE GUARDRAIL DETAIL ON SHEET 92

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 22, T 15 N, R 14 W, 2ND PM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: 1" = 50'	SHEET 13 OF 19 SHEETS	STA. 128+00.00 TO STA. 158+00.00
-----------------	-----------------------	----------------------------------

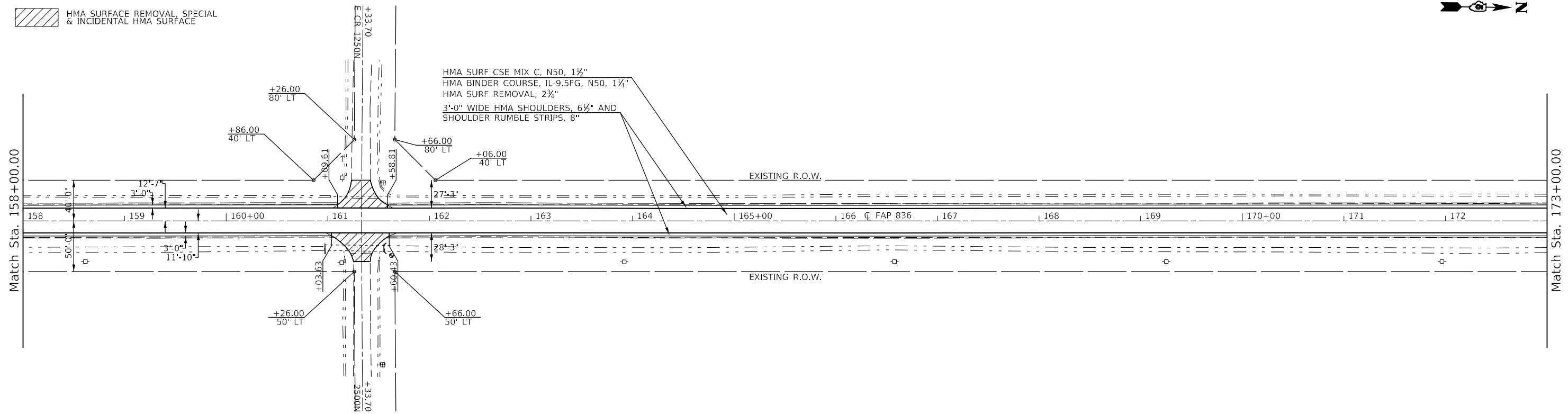
F.A.P. RTE. 836	SECTION **	COUNTY *	TOTAL SHEETS 224	SHEET NO. 57
			CONTRACT NO. 70D74	

MODEL: I:\MODEL\MI\FE FILE: MI\FE\_Plan\I116117RS-5\_D5 HSIP 2020-1\Projects\057007\AC\00\00\00\Design\057007\24-IL-DBR\11\_50.dgn

SEC 21, T 15 N, R 14 W, 2ND PM  
 PAVEMENT REMOVAL  
 HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE

SEC 16, T 16 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
 ACTUAL LIMITS MAY VARY.

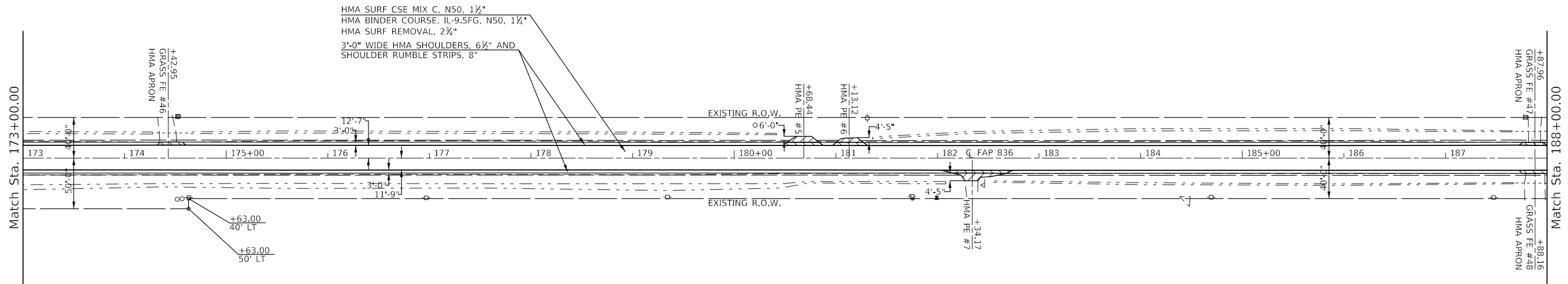


SEC 22, T 15 N, R 14 W, 2ND PM

SEC 15, T 16 N, R 14 W, 2ND PM

PAVEMENT REMOVAL  
 HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE

SEC 16, T 16 N, R 14 W, 2ND PM



SEC 15, T 16 N, R 14 W, 2ND PM

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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50'    SHEET 14 OF 19 SHEETS    STA. 158+00.00 TO STA. 188+00.00

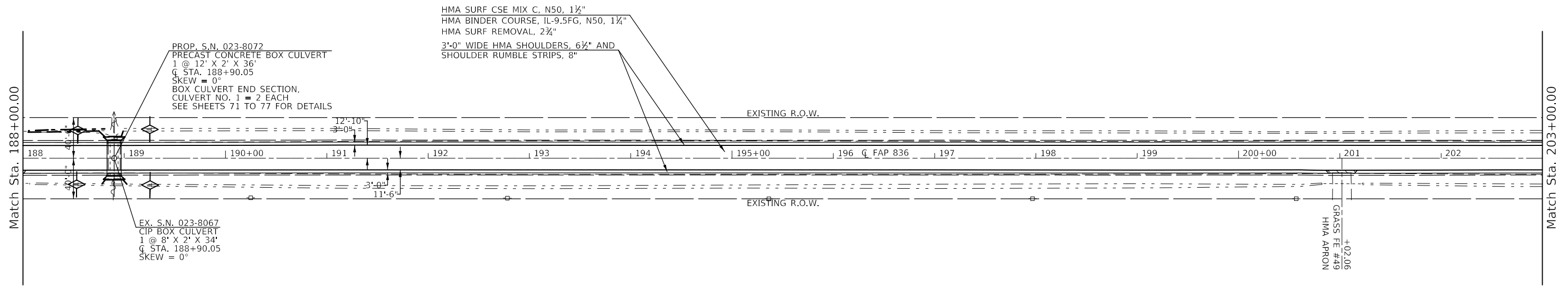
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	58
			CONTRACT NO. 70D74	

SEC 16, T 16 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.



- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE

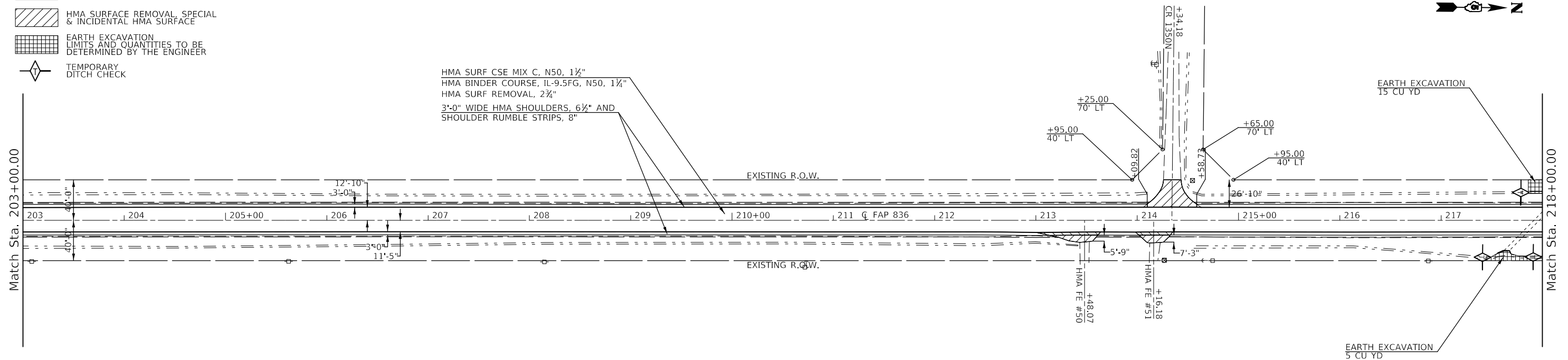


SEC 15, T 16 N, R 14 W, 2ND PM

SEC 16, T 16 N, R 14 W, 2ND PM

SEC 9, T 16 N, R 14 W, 2ND PM

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
- EARTH EXCAVATION LIMITS AND QUANTITIES TO BE DETERMINED BY THE ENGINEER
- TEMPORARY DITCH CHECK



SEC 15, T 16 N, R 14 W, 2ND PM

SEC 10, T 16 N, R 14 W, 2ND PM

USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET





SCALE: 1" = 50' SHEET 15 OF 19 SHEETS STA. 188+00.00 TO STA. 218+00.00

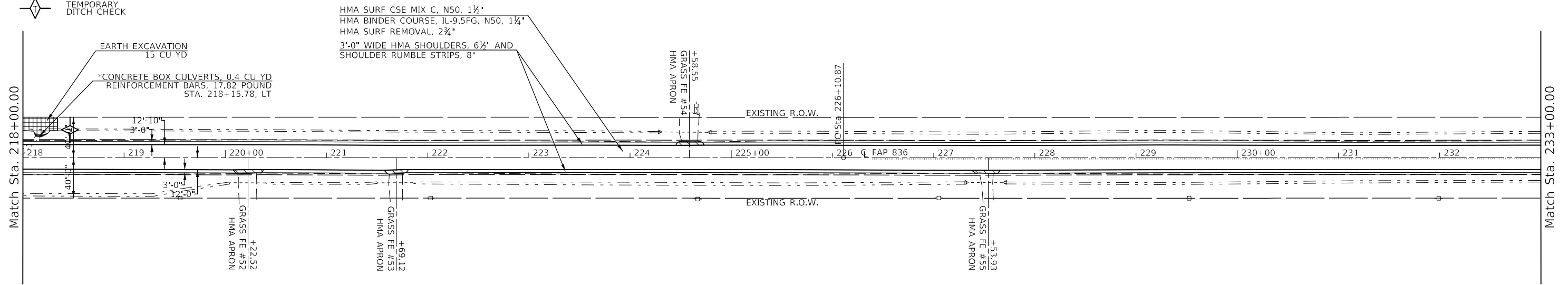
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	59
CONTRACT NO. 70D74				

MODEL: \\MODEL\MRF5 FILE: \\MRF5\_Plan\Illinois\goc\PI\DOT\Documents\DOT\_Offices\District 5\Projects\057007\ACADD\Bids\Design\057007\Plan\IL-49\Plan\_50.dgn

SEC 9, T 16 N, R 14 W, 2ND PM




RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  EARTH EXCAVATION LIMITS AND QUANTITIES TO BE DETERMINED BY THE ENGINEER
-  TEMPORARY DITCH CHECK

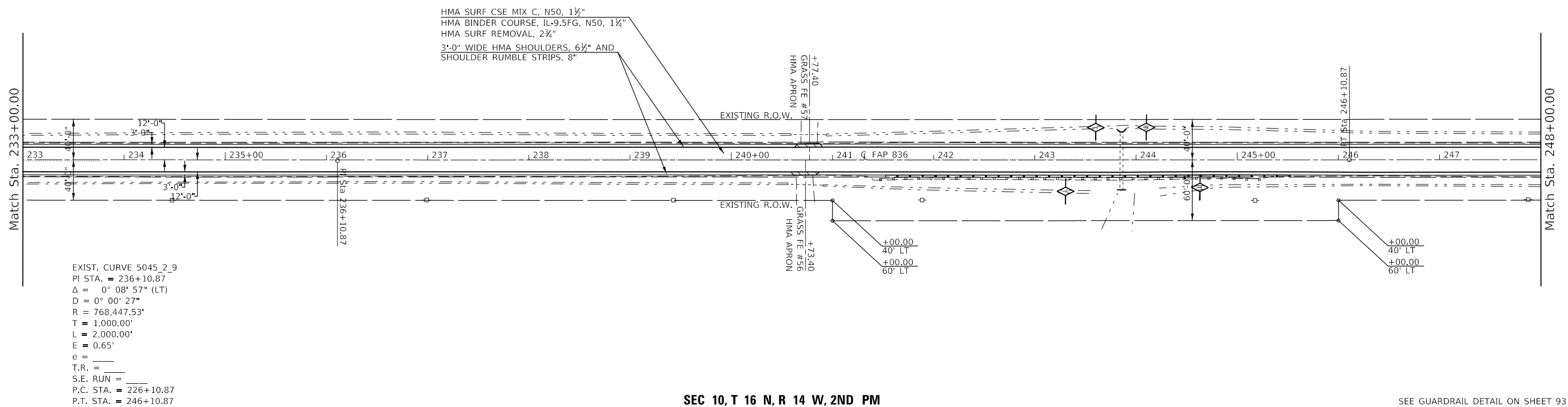


SEC 10, T 16 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF DELINEATOR AT CULVERT INCLUDED IN HEADWALL EXTENSION PAY ITEMS

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK

SEC 9, T 16 N, R 14 W, 2ND PM



SEC 10, T 16 N, R 14 W, 2ND PM

SEE GUARDRAIL DETAIL ON SHEET 93

MODEL: I:\MODEL\HMF5  
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PROJECT: D:\Projects\057007\AC\057007\Drawings\057007\248-PM-DRAWING.dwg

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION




IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 16 OF 19 SHEETS STA. 218+00.00 TO STA. 248+00.00

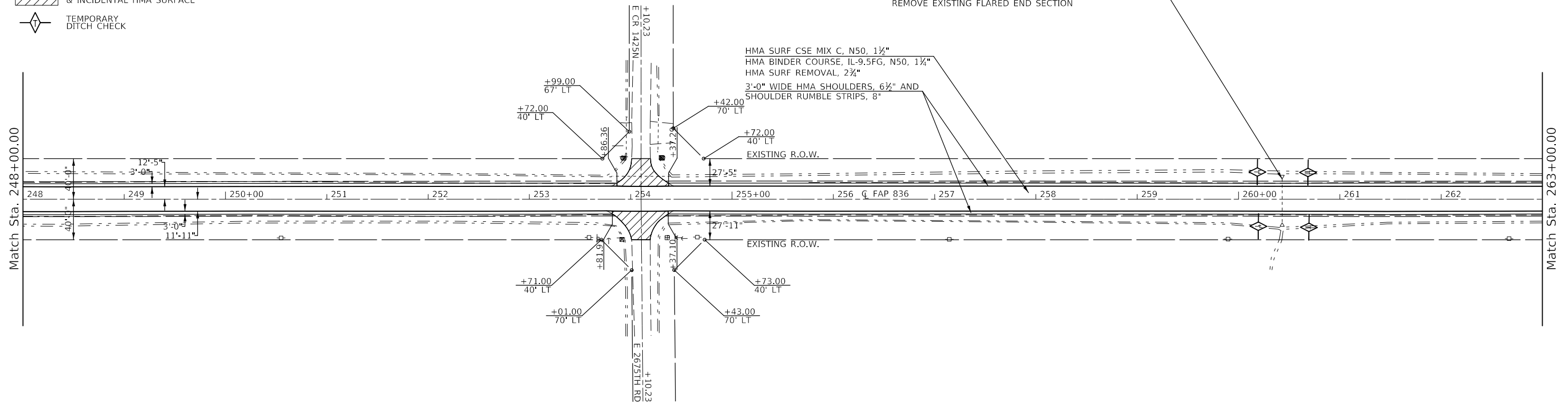
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	60
CONTRACT NO. 70D74				

SEC 9, T 16 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.




-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK

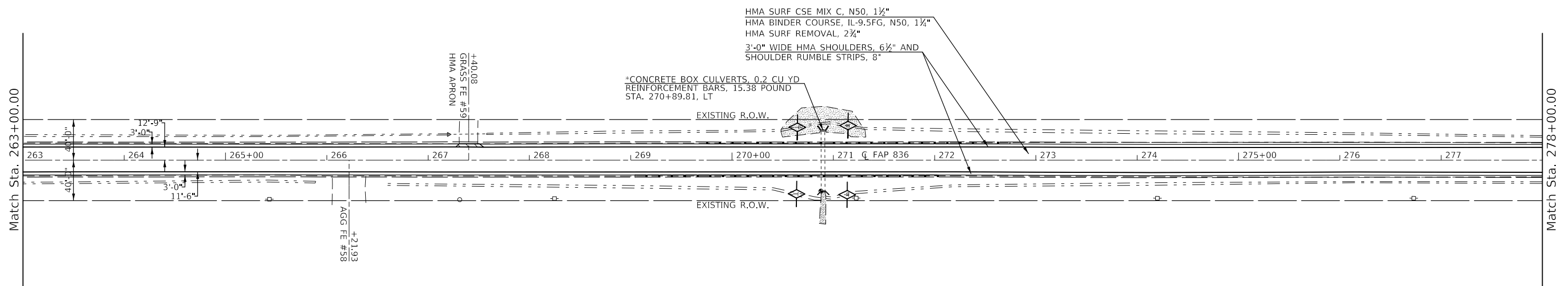
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"  
REMOVE EXISTING FLARED END SECTION



SEC 10, T 16 N, R 14 W, 2ND PM

SEC 4, T 16 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK



SEC 10, T 16 N, R 14 W, 2ND PM

SEC 3, T 16 N, R 14 W, 2ND PM

SEE GUARDRAIL DETAIL ON SHEET 94  
\* REMOVAL AND RE-ERECTION OF DELINEATOR AT CULVERT INCLUDED IN HEADWALL EXTENSION PAY ITEMS

MODEL: \\MODEL\MARF... FILE: MARF... PROJECT: 057007\AC\ADD\B... DESIGN: 057007\AC\H... DBR\11\_50.dgn

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 17 OF 19 SHEETS STA. 248+00.00 TO STA. 278+00.00



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**		224	61
CONTRACT NO. 70D74				

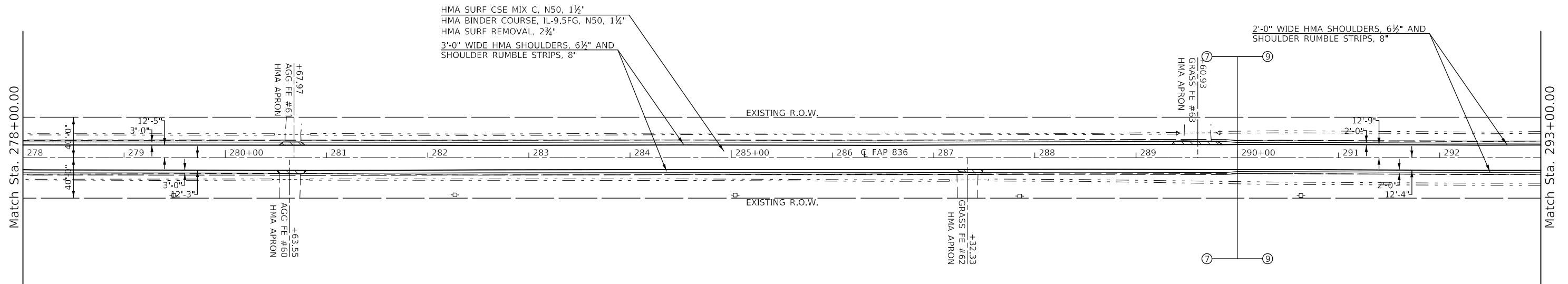
ILLINOIS FED. AID PROJECT

DOUGLAS & EDGAR

SEC 4, T 16 N, R 14 W, 2ND PM




RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

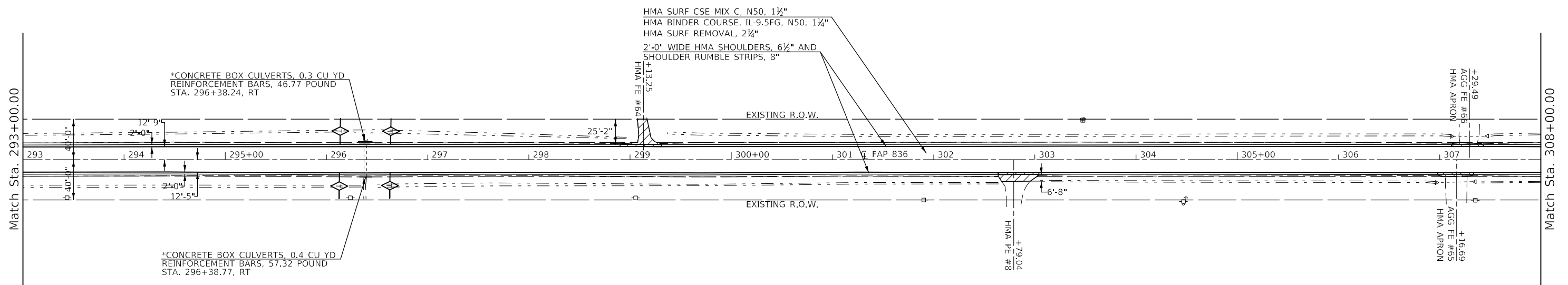
-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 3, T 16 N, R 14 W, 2ND PM

SEC 4, T 16 N, R 14 W, 2ND PM

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE
-  TEMPORARY DITCH CHECK



SEC 3, T 16 N, R 14 W, 2ND PM

\* REMOVAL AND RE-ERECTION OF  
DELINEATOR AT CULVERT INCLUDED  
IN HEADWALL EXTENSION PAY ITEMS

MODEL: \\MODEL\MARF5  
FILE: MARF5\_Plan\Illinois\pwr\707\AC\AddData\Design\05707\24-RT-DBR\14\_50.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 18 OF 19 SHEETS STA. 278+00.00 TO STA. 308+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	62
CONTRACT NO. 70D74				



ILLINOIS FED. AID PROJECT

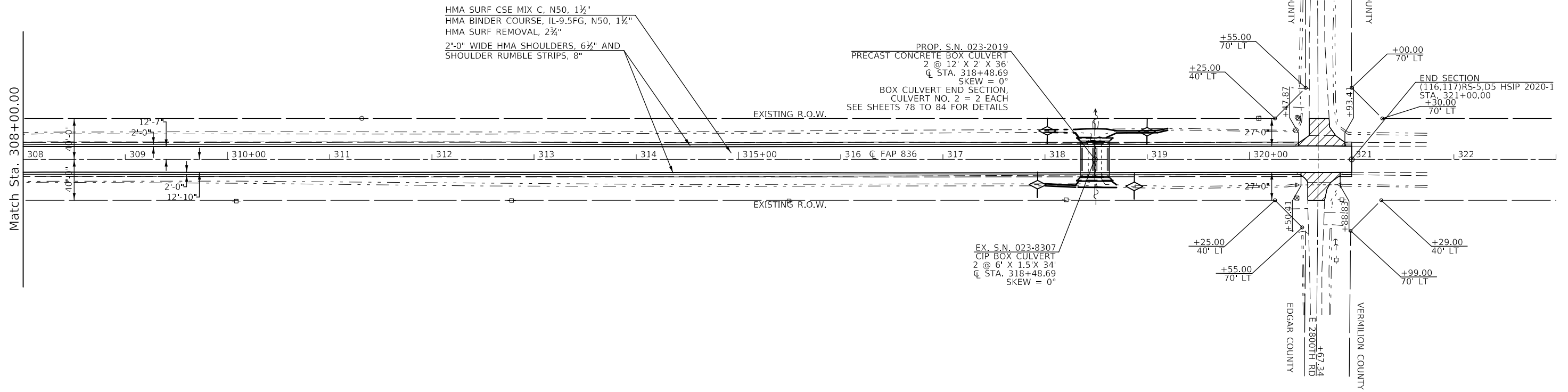
\*(116,117)RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR

SEC 4, T 16 N, R 14 W, 2ND PM

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE



SEC 3, T 16 N, R 14 W, 2ND PM

MODEL: \\MODEL\MARF5  
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USER NAME = PiersonJ	DESIGNED -	REVISED -
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PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

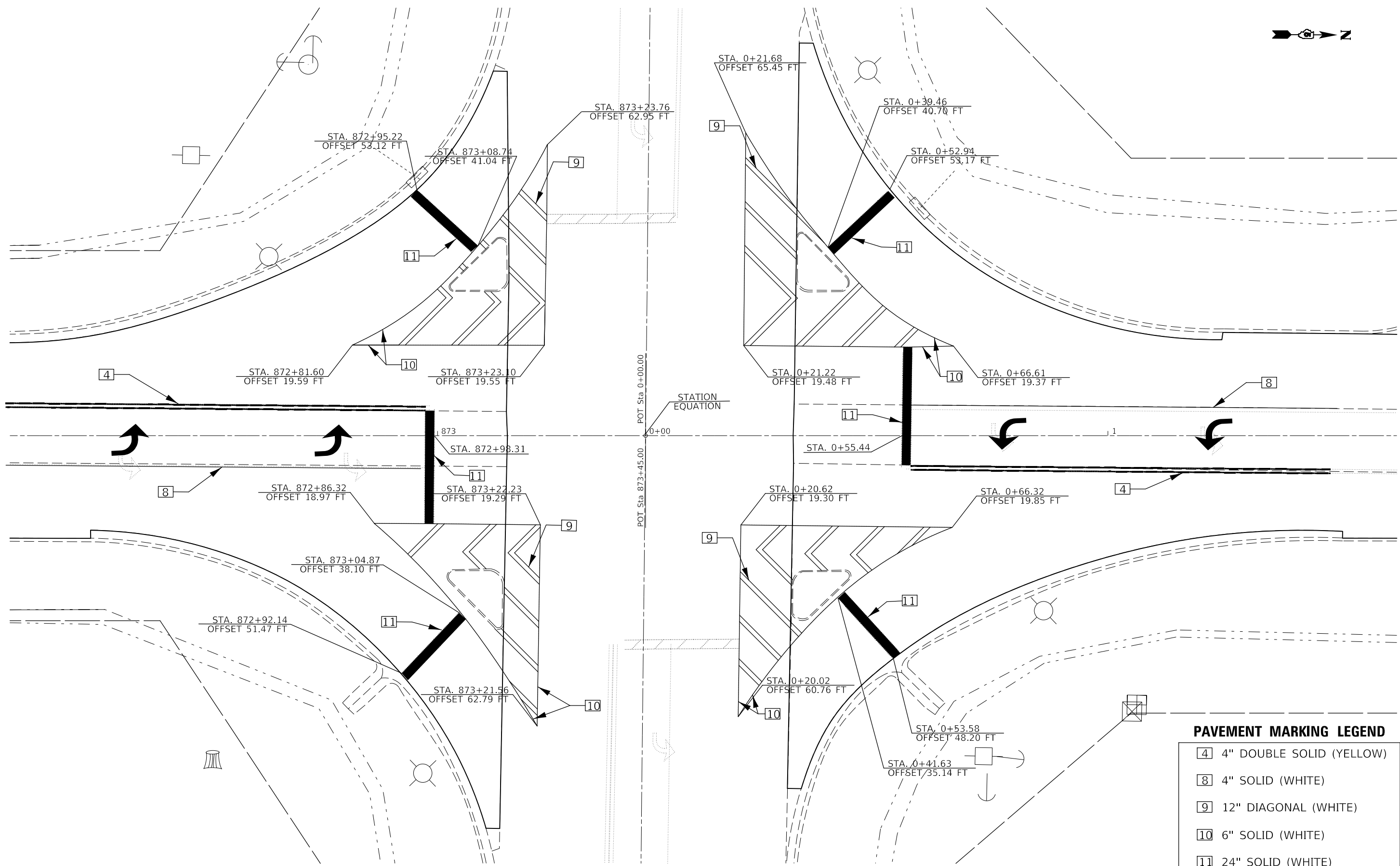
IL-49 PLAN SHEET

SCALE: 1" = 50' SHEET 19 OF 19 SHEETS STA. 308+00.00 TO STA. 322+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	63
CONTRACT NO. 70D74				

ILLINOIS FED. AID PROJECT \*\* (116,117)RS-5, D5 HSIP 2020-1

DOUGLAS & EDGAR



**PAVEMENT MARKING LEGEND**

4	4" DOUBLE SOLID (YELLOW)
8	4" SOLID (WHITE)
9	12" DIAGONAL (WHITE)
10	6" SOLID (WHITE)
11	24" SOLID (WHITE)

MODEL: \\MODELNAME  
 FILE: \\NAME.Plot  
 PROJECT: \\PROJECTNAME  
 OFFICE: \\OFFICE  
 DATE: 3/24/2020

USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

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

<b>US-36 &amp; IL-49</b> <b>STRIPING INTERSECTION DETAIL</b>			
SCALE: 1"=10'	SHEET 1	OF 1 SHEETS	STA. TO STA.

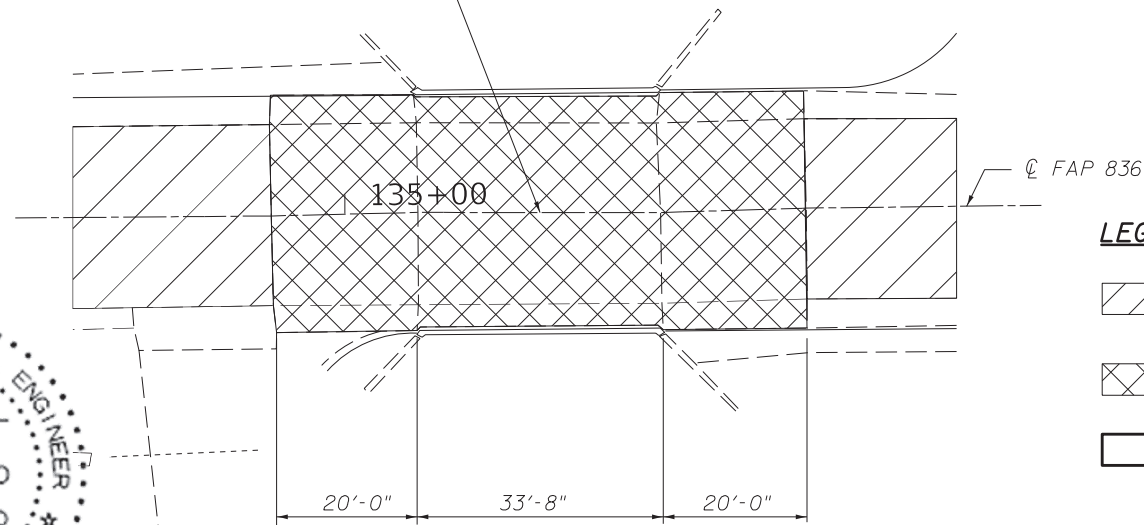
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	64
CONTRACT NO. 70D74				



STRUCTURE 023-2010 WAS ORIGINALLY BUILT IN 1983 AS SECTION 117BR-2 AT STATION 135+39.00 BY THE STATE OF ILLINOIS. THE EXISTING STRUCTURE IS A TRIPLE (3) BARREL, 10' X 10' REINFORCED CONCRETE BOX CULVERT.




METHOD OF CONSTRUCTION: STAGED CONSTRUCTION

Exst. S.N. 023-2010  
IL 49 @ Sta. 135+39.00



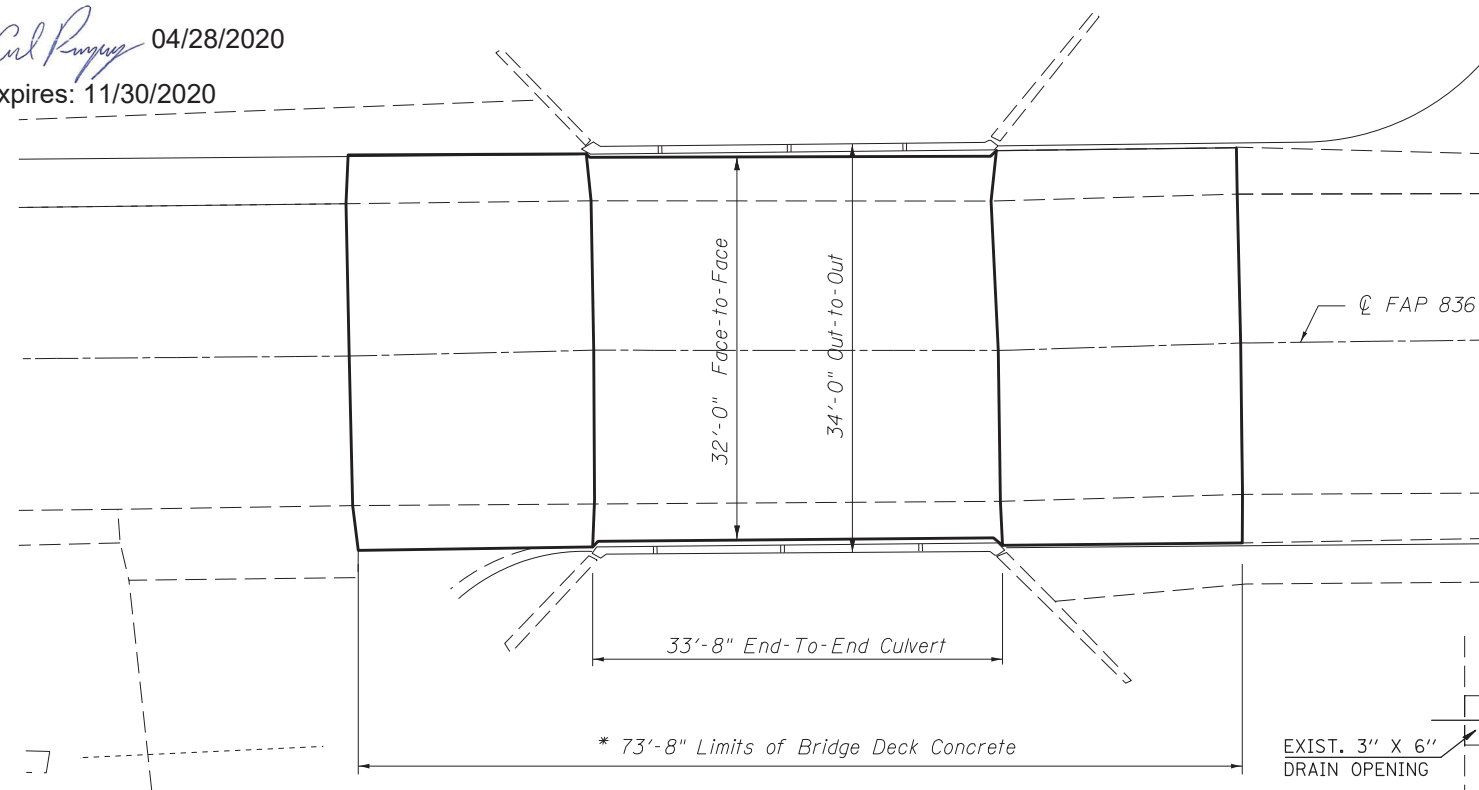
PLAN VIEW (Existing)

**LEGEND**

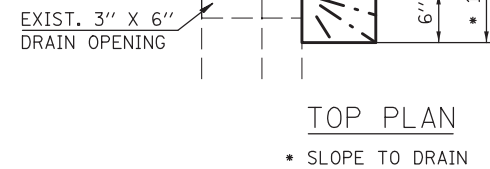
-  HMA Surface Removal & Rundowns (See Roadway Plans)
-  Bridge Deck Scarification  $\frac{3}{4}$ "
-  Bridge Deck Fly Ash or GGBF Slag Concrete Overlay  $2\frac{1}{2}$ "



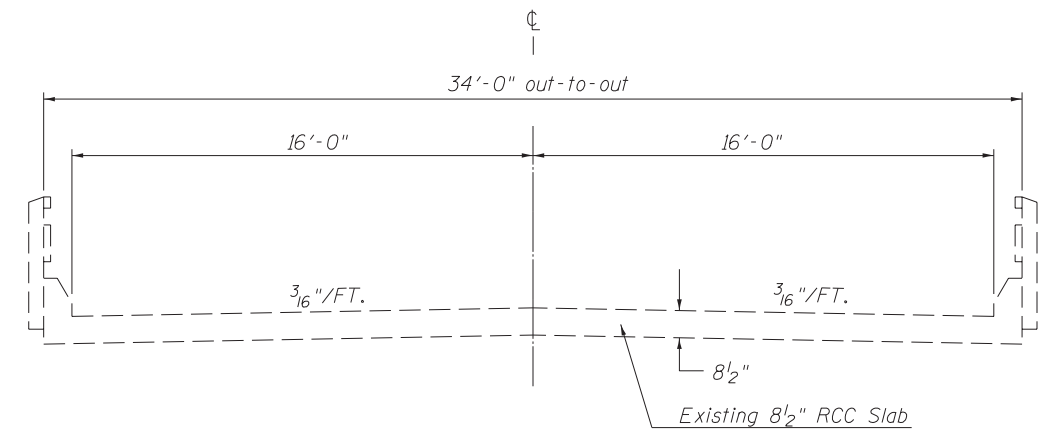
*David Carl Puzey* 04/28/2020  
Expires: 11/30/2020



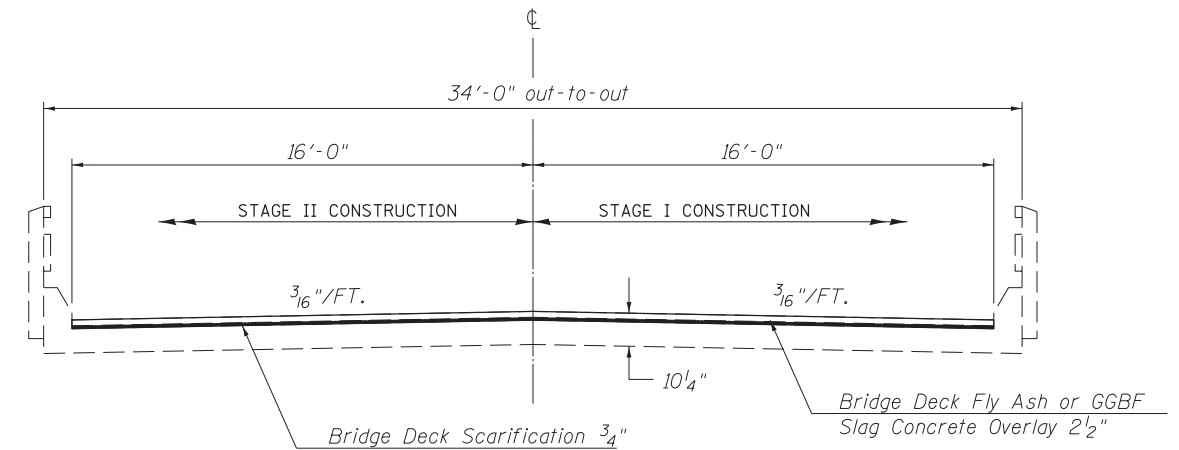
PLAN VIEW (Proposed)



**EXISTING CROSS SECTION  
(LOOKING NORTH)**



**PROPOSED CROSS SECTION  
(LOOKING NORTH)**



**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 for the work.

Synthetic Fibers shall be included in Bridge Deck Concrete Overlays.

\* Bill of Materials includes quantities associated with S.N. 023-2010 only. See Roadway Plans for other quantities.

\*\* Concrete overlay surface only.

**\* TOTAL BILL OF MATERIAL S.N. 023-2010**

ITEM	UNIT	TOTAL
** Protective Coat	Sq Yd	268.0
Bridge Deck Grooving	Sq Yd	246.0
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay $2\frac{1}{2}$ "	Sq Yd	268.0
Bridge Deck Scarification $\frac{3}{4}$ "	Sq Yd.	268.0

**PROPOSED WORK**

1. Perform Bridge Deck Scarification  $\frac{3}{4}$ "
2. Place Bridge Deck Fly Ash or GGBF Slag Concrete Overlay  $2\frac{1}{2}$ "
3. Perform Bridge Deck Grooving

FILE NAME =	USER NAME = PiersonTJ	DESIGNED - JMS	REVISED -
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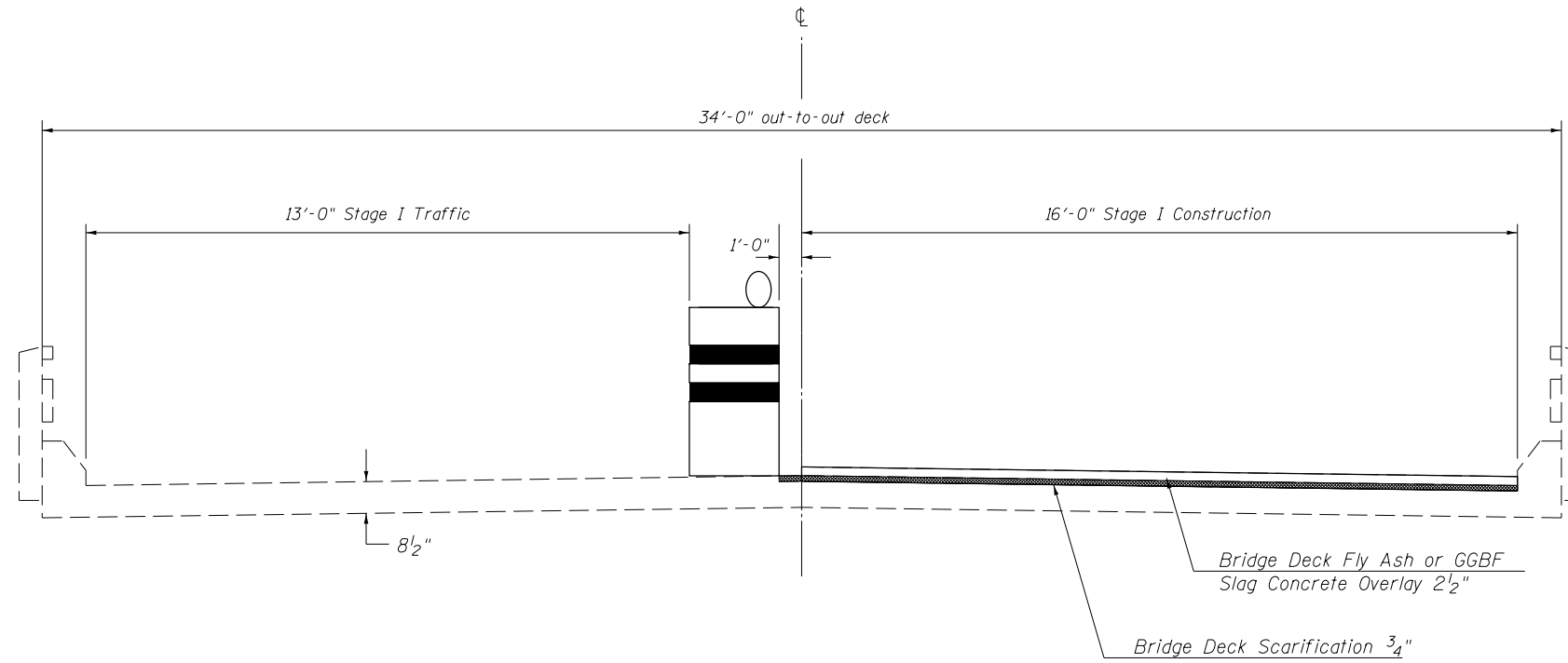
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & STRUCTURE DETAIL  
S.N. 023-2010

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

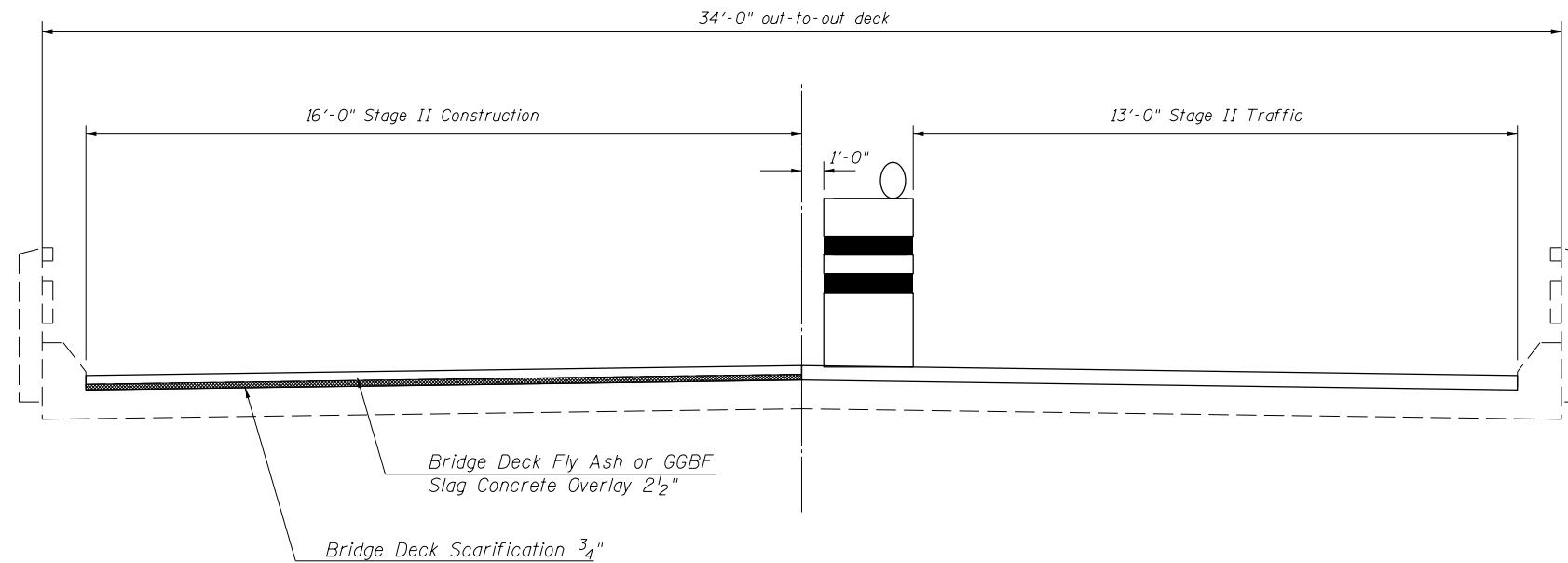
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	*	EDGAR	224	65
* (116,117)RS-5, D5 HSIP 2020-1			CONTRACT NO. 70D74	
ILLINOIS FED. AID PROJECT				

## STAGE I CONSTRUCTION DETAIL

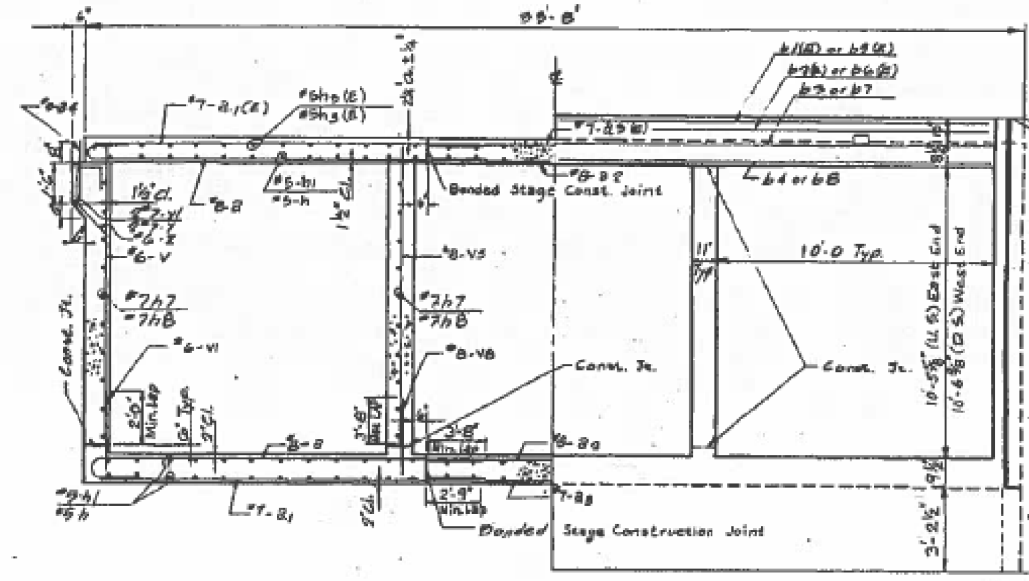
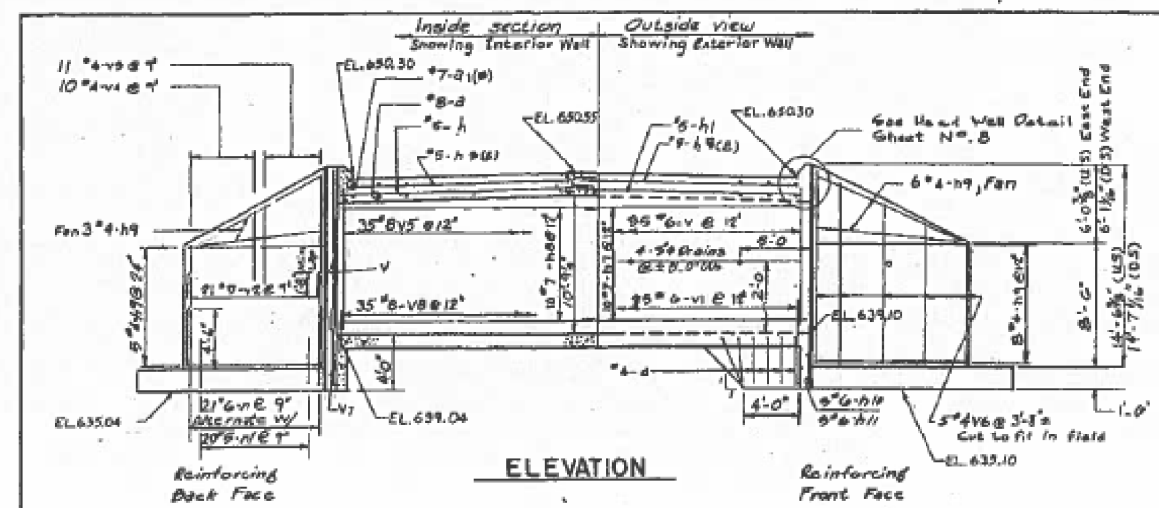


Note: Proposed Safety Shoulders shall be placed prior to proposed work on 023-2010 to accommodate staging.

## STAGE II CONSTRUCTION DETAIL



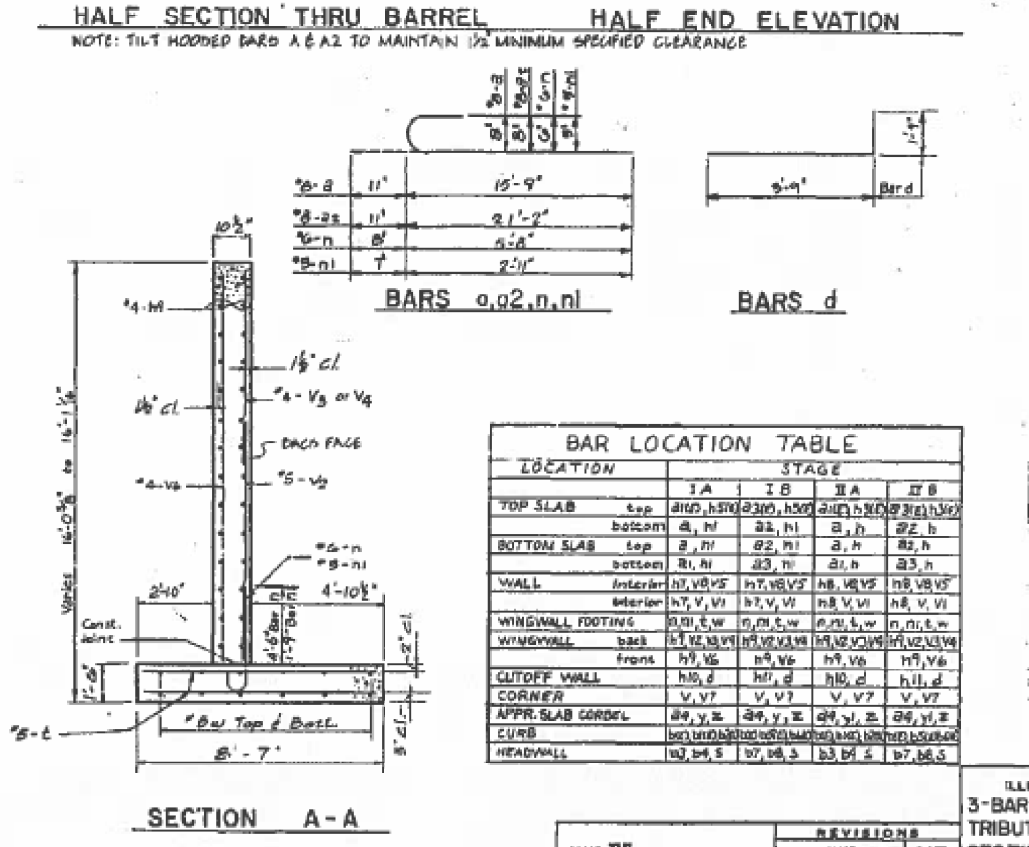
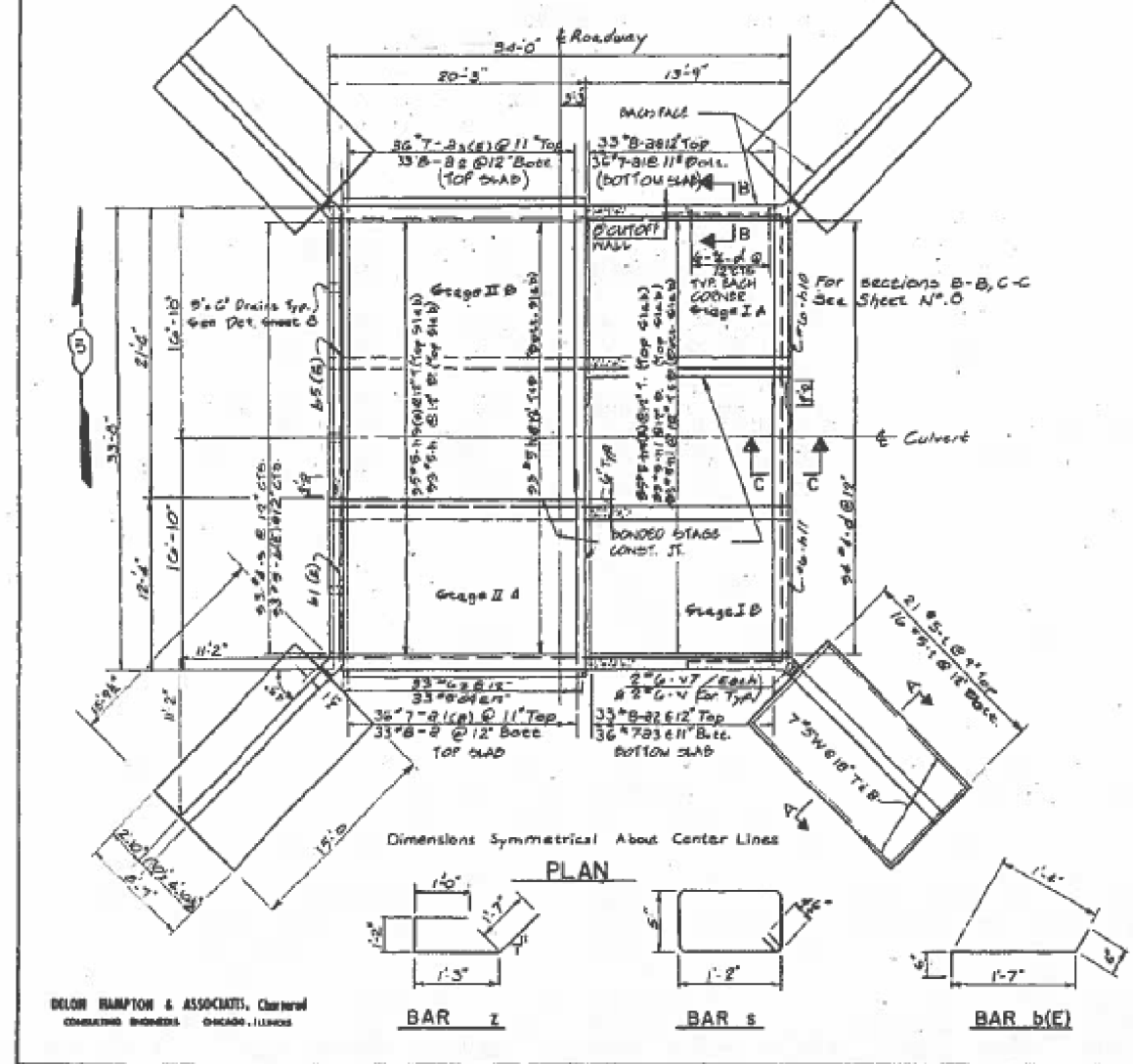
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	PLOT DATE = 3/24/2020	DATE - 110519	REVISED -		SCALE: NONE	SHEET 2	OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



SECTION	EDGAR	TOTAL SHEETS	15	SHEET NO.	7
PROJECT	117-BR-2	DATE	10/24		

**BILL OF MATERIAL**

BAR	No	SIZE	LENGTH	SHAPE
B	66	8	16'-0"	
B1	36	7	14'-10"	
B1(E)	36	7	14'-10"	
B2	68	8	22'-7"	
B3	36	7	21'-2"	
B3(E)	36	7	21'-2"	
B4	68	5	2'-0"	
B4(E)	68	5	2'-0"	
B4(E)	8	6	14'-4"	
B4(E)	2	5	14'-4"	
B5	2	5	14'-4"	
B4	4	6	14'-4"	
B5(E)	4	6	20'-11"	
B6(E)	2	5	20'-11"	
B7	2	5	21'-1"	
B8	8	8	21'-1"	
d	92	4	5'-0"	
h	99	5	20'-0"	
h1	99	5	15'-3"	
h1(E)	39	5	20'-0"	
h5(E)	35	5	15'-3"	
i7	40	7	14'-4"	
i10	40	7	20'-0"	
i13	88	4	14'-8"	
i10	6	6	14'-2"	
i11	6	6	21'-2"	
i11	64	6	6'-4"	
i11	80	5	3'-0"	
s	66	4	9'-11"	
t	148	5	8'-0"	
v	78	6	10'-6"	
v1	70	6	3'-0"	
v2	86	7	6'-8"	
v3	49	4	9'-8"	
v4	90	4	8'-8"	
v5	70	8	10'-8"	
v6	20	8	10'-8"	
v7	8	6	6'-8"	
v8	70	6	4'-9"	
w	56	5	14'-8"	
y	4	7	16'-4"	
y1	4	7	20'-7"	
z	66	6	5'-0"	

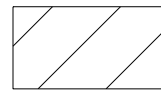


**BAR LOCATION TABLE**

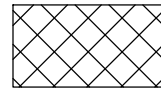
LOCATION	STAGE			
	IA	IB	IIA	IIB
TOP SLAB	top a1a, h1a, e1a, w1a, s1a, t1a	top a1b, h1b, e1b, w1b, s1b, t1b	top a2a, h2a, e2a, w2a, s2a, t2a	top a2b, h2b, e2b, w2b, s2b, t2b
BOTTOM SLAB	bottom a1a, h1a, e1a, w1a, s1a, t1a	bottom a1b, h1b, e1b, w1b, s1b, t1b	bottom a2a, h2a, e2a, w2a, s2a, t2a	bottom a2b, h2b, e2b, w2b, s2b, t2b
WALL	interior h1, v1, w1, e1, s1, t1	interior h2, v2, w2, e2, s2, t2	interior h3, v3, w3, e3, s3, t3	interior h4, v4, w4, e4, s4, t4
WINGWALL FOOTING	front a1, h1, e1, w1, s1, t1	front a2, h2, e2, w2, s2, t2	front a3, h3, e3, w3, s3, t3	front a4, h4, e4, w4, s4, t4
WINGWALL	back h1, v1, w1, e1, s1, t1	back h2, v2, w2, e2, s2, t2	back h3, v3, w3, e3, s3, t3	back h4, v4, w4, e4, s4, t4
CUTOFF WALL	front h1, d1	front h2, d2	front h3, d3	front h4, d4
CORNER	v1, v7	v2, v7	v3, v7	v4, v7
APPR. SLAB CORREL	a1, y1, z1	a2, y2, z2	a3, y3, z3	a4, y4, z4
CURB	bottom a1, h1, e1, w1, s1, t1	bottom a2, h2, e2, w2, s2, t2	bottom a3, h3, e3, w3, s3, t3	bottom a4, h4, e4, w4, s4, t4
HEADWALL	w1, b1, s1	w2, b2, s2	w3, b3, s3	w4, b4, s4

NOTE: Reinforcement bars designated (E) shall be Epoxy Coated. See Special Provisions.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 3-BARREL BOX CULVERT OVER  
 TRIBUTARY TO BRUSHY FORK CREEK  
 SECTION 117-BR-2 EDGAR COUNTY  
 F.A.P. RTE. 836 - STA. 135+39  
 CULVERT PLAN & SECTION  
 DATE FEB 9, 2020



PAVEMENT REMOVAL, 2 3/4"



BRIDGE DECK SCARIFICATION 3/4"



35'

BRIDGE DECK SCARIFICATION 3/4"

BRIDGE DECK MICROSILICA  
CONCRETE OVERLAY 2 1/2"

1 1/2"

STA. 134+54.74

1 1/2"

STA. 134+89.74

2 1/2"

3/4"

1 1/4"

HMA SURFACE COURSE,  
MIX "C", N50 (168 LBS/SQ YD)

HMA BINDER COURSE  
IL-9.5FG, N50  
(336 LBS/SQ YD TO 140 LBS/SQ YD)

EXISTING HMA, 7 1/4"

EXISTING PCC 9-6-9  
PAVEMENT

3"

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PROJECT: S:\Projects\057007\ACAD\Bata\Design\057007\Plan\DetailProfile Transition\_S4\_023-2010.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

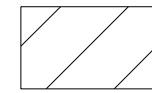
TRANSITION DETAIL  
S.N. 023-2010

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

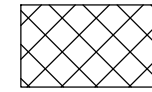
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	68
CONTRACT NO. 70D74				

\*(116,117)RS-5, D5 HSIP 2020-1

\* DOUGLAS & EDGAR



PAVEMENT REMOVAL, 2 3/4"



BRIDGE DECK SCARIFICATION 3/4"



BRIDGE DECK SCARIFICATION 3/4"

BRIDGE DECK MICROSILICA  
CONCRETE OVERLAY 2 1/2"

35'

STA. 135+64.08

STA. 135+99.08

3/4"

2 1/2"

1 1/2"

1 1/2"

3"

EXISTING HMA, 7 1/4"

EXISTING PCC 9-6-9  
PAVEMENT

HMA SURFACE COURSE,  
MIX "C", N50 (168 LBS/SQ YD)

HMA BINDER COURSE  
IL-9.5FG, N50  
(336 LBS/SQ YD TO 140 LBS/SQ YD)

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PLOT SCALE = 4,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRANSITION DETAIL  
S.N. 023-2010

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	69
			CONTRACT NO. 70D74	

ILLINOIS FED. AID PROJECT

DOUGLAS & EDGAR

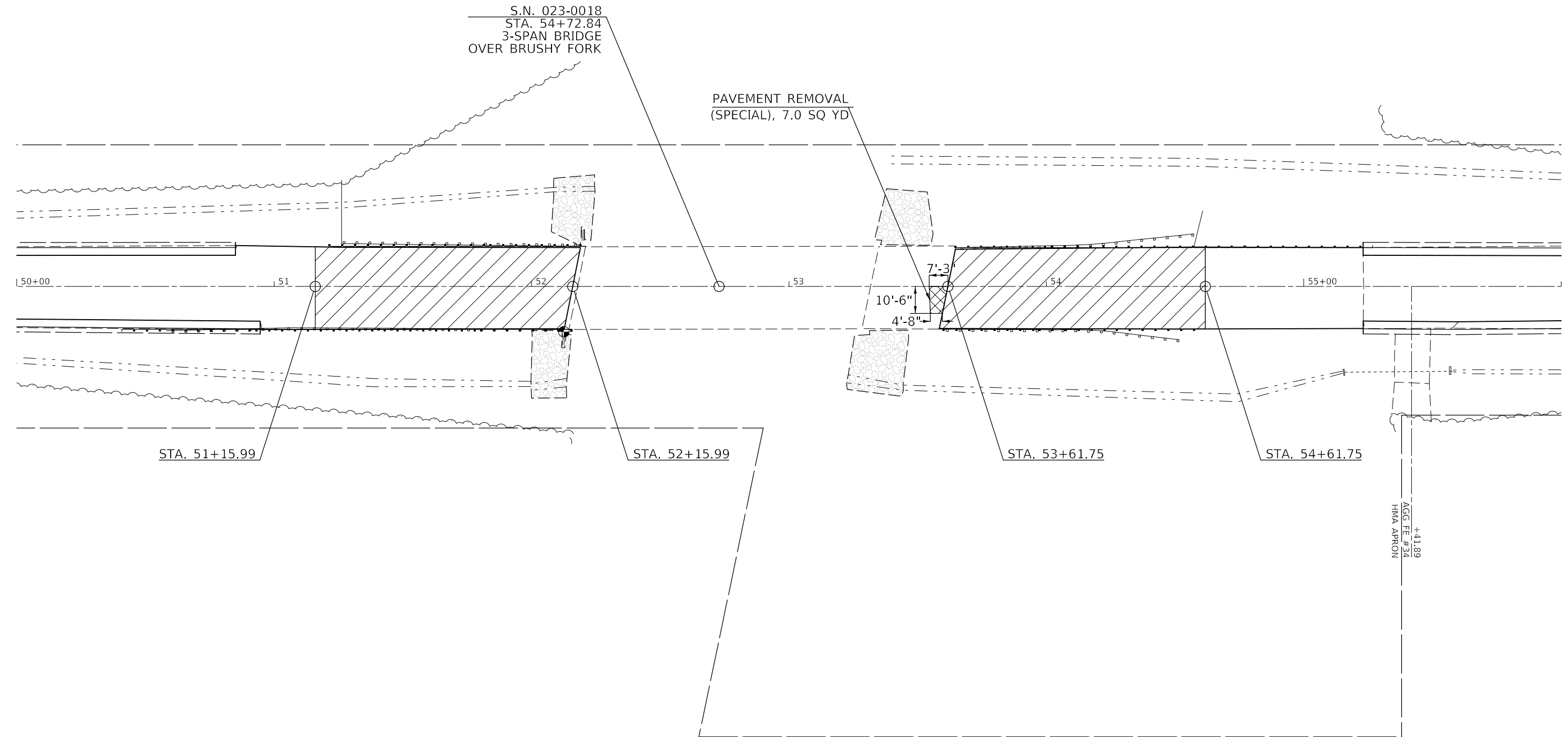
 PROFILE CORRECTION  
AREA - STRINGLINE REQUIRED

 PAVEMENT REMOVAL  
(SPECIAL)



S.N. 023-0018  
STA. 54+72.84  
3-SPAN BRIDGE  
OVER BRUSHY FORK

PAVEMENT REMOVAL  
(SPECIAL), 7.0 SQ YD



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 OFFICE: \\OFFICE  
 DATE: 3/24/2020

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

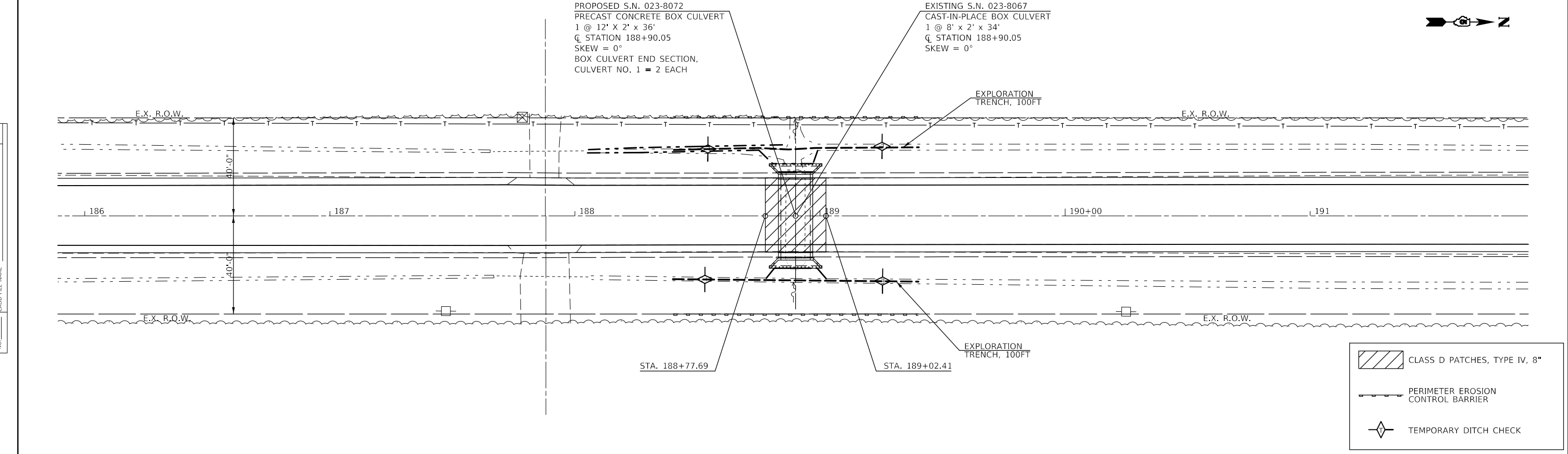
<b>S.N. 023-0018 PROFILE CORRECTION STRINGLINE LIMITS</b>	
SCALE: 1'=20"	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 836	SECTION **	COUNTY *	TOTAL SHEETS 224	SHEET NO. 70
			CONTRACT NO. 70D74	
ILLINOIS FED. AID PROJECT			** (116,117)RS-5, D5 HSIP 2020-1	

\* DOUGLAS & EDGAR

PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	ALIGNMENT CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CRWD	



658	EXISTING C.F.A.P. 836 (IL-49) PROFILE																				658			
656	EXISTING RIGHT PIPE CULVERT, 15"																				656			
654	EXISTING RIGHT DITCH PROFILE																				654			
652	EXISTING LEFT DITCH PROFILE																				652			
650	EXISTING LEFT PIPE CULVERT, 15"																				650			
648	PROPOSED LEFT DITCH PROFILE																				648			
646	D.H.W.E. 654.21 L.S. I. = 653.57 D.S. I. = 653.21																				646			
644	S.N. 023-8072 PROP. U.S. INV. = 652.53' RT 18' PROP. D.S. INV. = 652.42' LT 18'																				644			
642																					642			
ROAD CL	656.93	656.94	656.94	656.94	656.95	656.95	656.96	656.94	656.91	656.88	656.85	656.83	656.84	656.85	656.85	656.86	656.87	656.87	656.88	656.88	656.91	656.95	657.00	
LEFT DITCH	654.06	654.14	654.21	654.28	654.36	654.43	654.51	654.59	654.73	654.86	654.08	654.14	654.08	653.61	653.41	653.72	653.96	654.07	654.17	654.28	654.35	654.36	654.37	
RIGHT DITCH	653.58	653.64	653.70	653.77	653.83	653.90	653.96	655.19	654.73	653.57	653.43	653.29	653.70	653.71	653.71	653.72	653.72	653.73	653.73	653.74	653.77	653.83	653.89	
	186+00	186+50	187+00	187+50	188+00	188+50	189+00	189+50	190+00	190+50	191+00	191+50												

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	DRAWN -	REVISED -			
	CHECKED -	REVISED -	F.A.P. RTE. 836 SECTION ** COUNTY * TOTAL SHEETS 224 SHEET NO. 71		ILLINOIS FED. AID PROJECT ** (116,117)RS-5, D5 HSIP 2020-1 * DOUGLAS & EDGAR
	DATE -	REVISED -	CONTRACT NO. 70D74		

Existing Structure: S.N. 023-8067

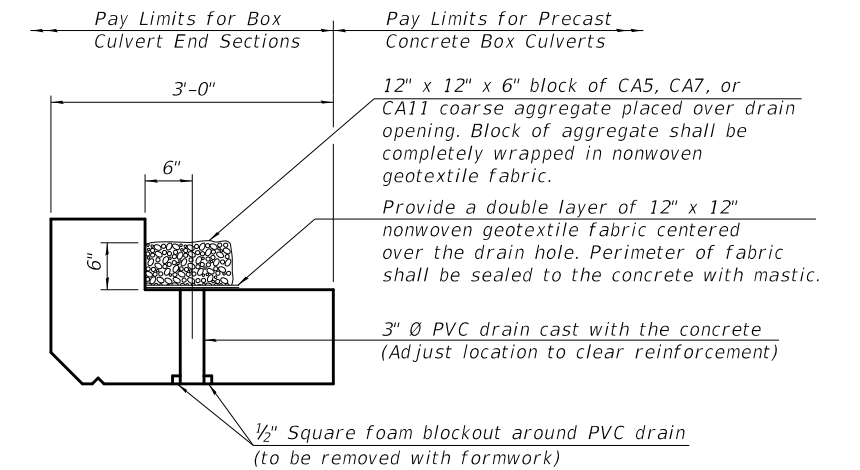
**INDEX OF SHEETS**

- 1. General Plan and Elevation
- 2.-3. Precast Concrete Box Culvert
- Apron End Section Details

**GENERAL NOTES**

The design fill height for this box is 1.33 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment 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 yard.  
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.

\* POROUS GRANULAR MATERIAL (CA-6)  
 (included with precast box culvert)



**DRAIN DETAIL**

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

**PROFILE GRADE**

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition with 2013 Interims

**LOADING HL-93**

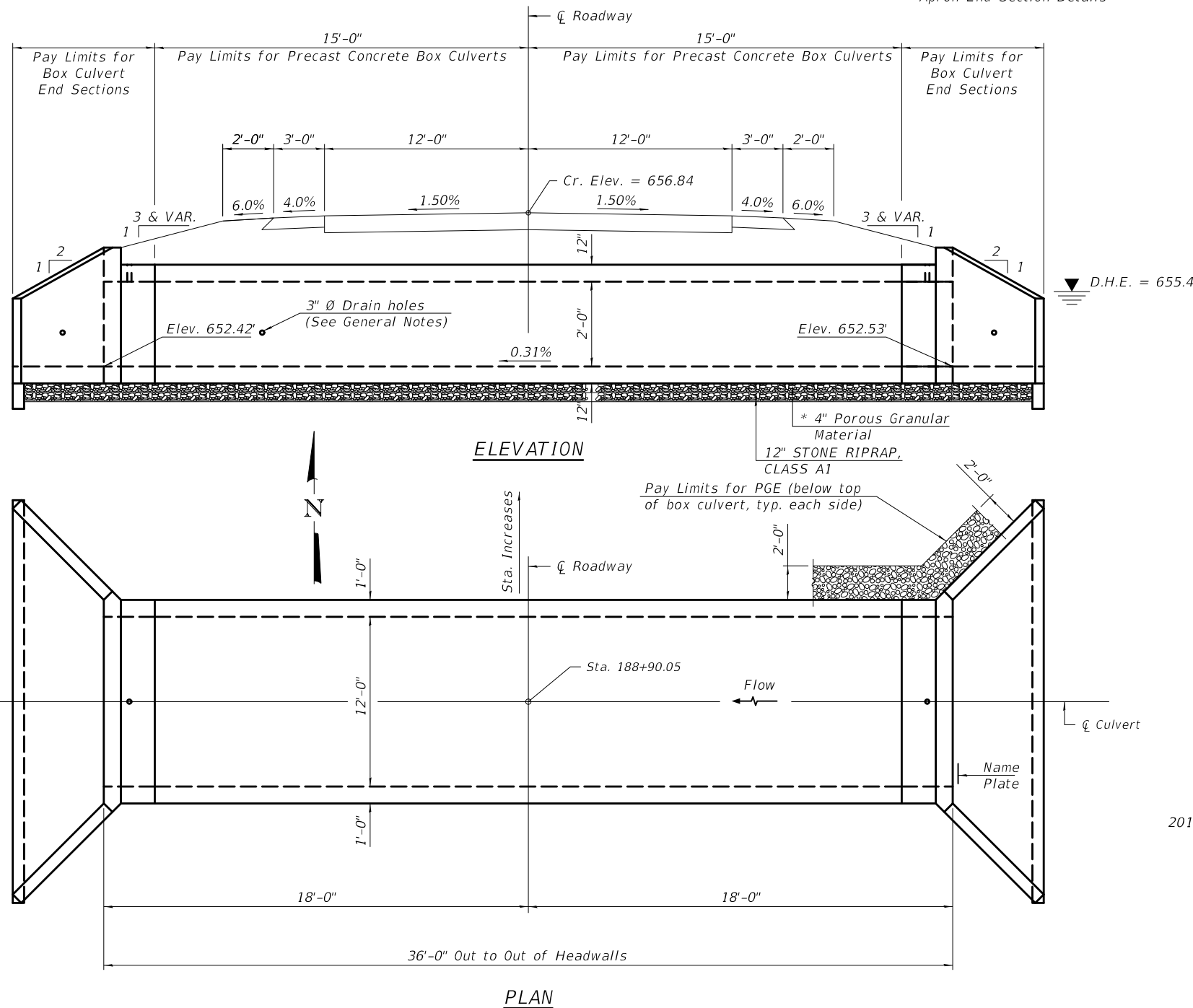
**DESIGN STRESSES**

**PRECAST UNITS**

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 1	Each	2.0
Precast Concrete Box Culverts, 12' X 2'	Foot	30



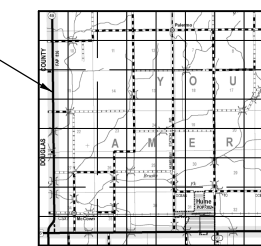
**WATERWAY INFORMATION**

Drainage Area = 0.25 sq. mi. Low Grade Elev. = 656.84 @ 188+89.26

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	92.6	9	19	654.1	1.7	0.5	655.8	654.6	
Base	50	137	10	20	654.2	2.7	1.2	656.9	655.4	
Overtopping Ex.	100	161	11	21	654.3	2.7	1.6	657.1	655.9	
Max. Calc.	30	122	10	21	654.2	2.6	2.3	656.8	656.6	

STATION 188+90.05  
 BUILT 2020 BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 836  
 SEC. 117CR  
 LOADING HL-93  
 STR. NO. 023-8072

**NAME PLATE**  
 See Std. 515001



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**IL RTE. 49 OVER UN-NAMED INTERMITTENT STREAM**  
**F.A.P. RTE. 836 SEC.(116,117)RS-5,D5 HSIP 2020-1**  
**EDGAR COUNTY**  
**STATION 188+90.05**  
**S.N. 23-8072**

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SCB-GPE

2-17-2017

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	DRAWN -	REVISIONS -
	CHECKED -	REVISIONS -
	DATE -	REVISIONS -

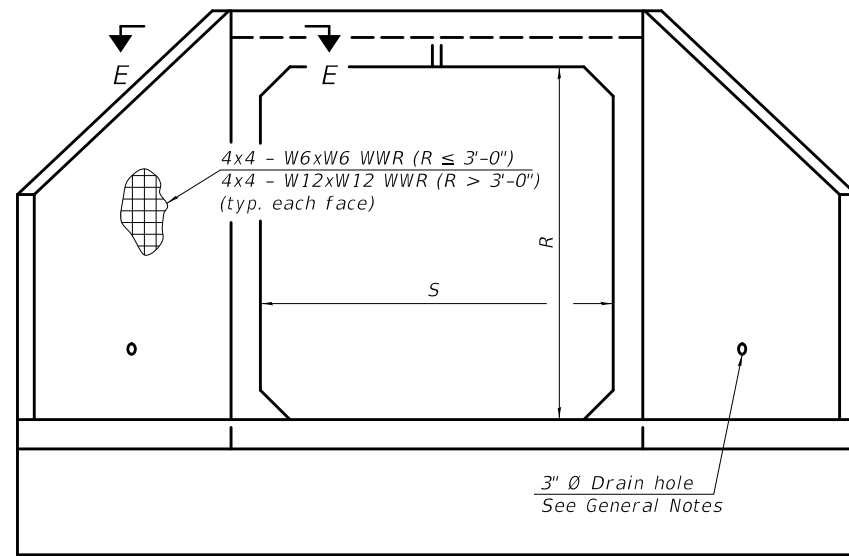
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION S.N.023-8072**  
**IL 49 CULVERT STA. 188+90.05**

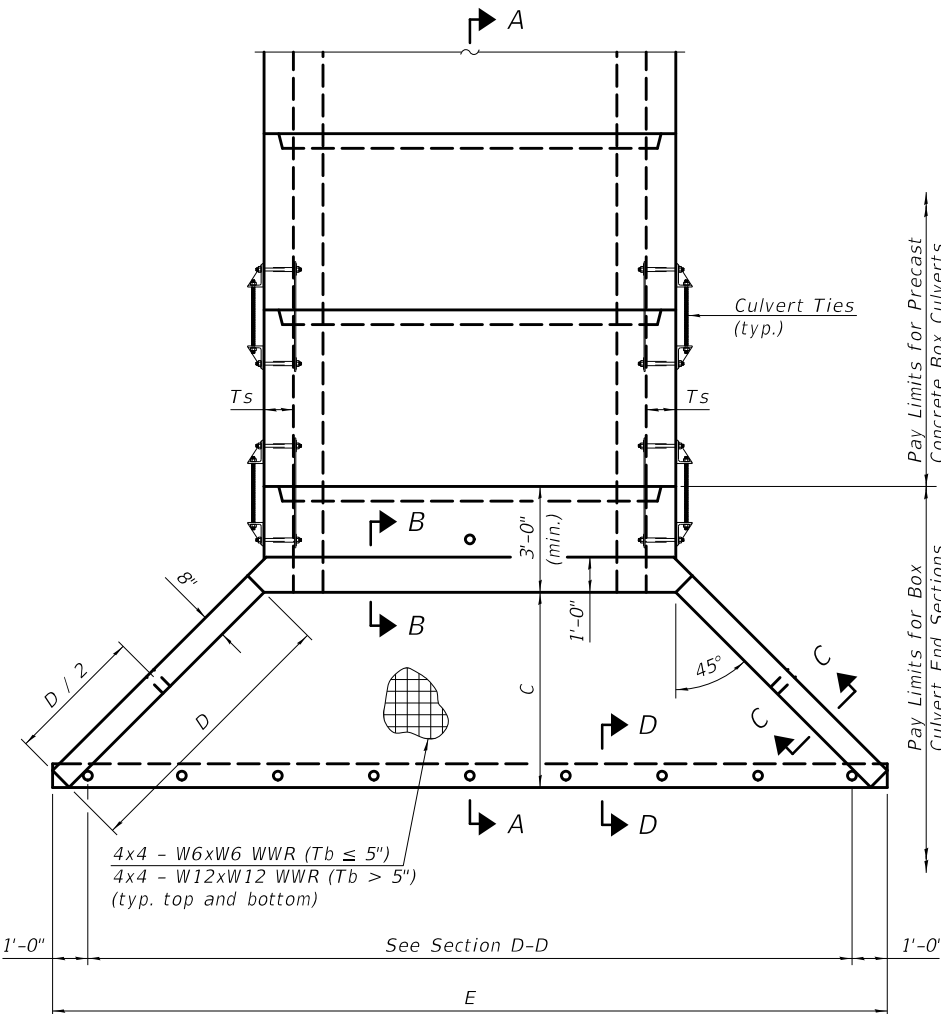
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	72
CONTRACT NO. 70D74				

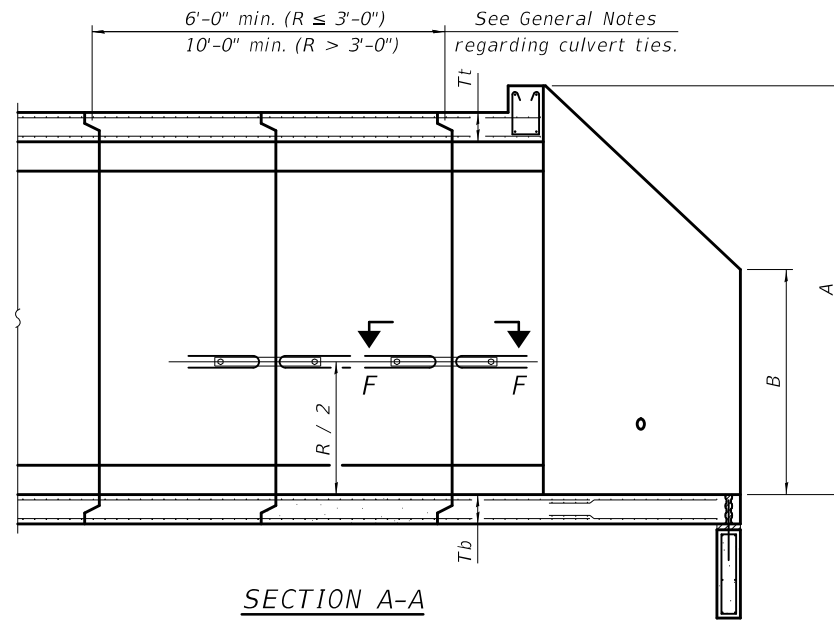




END VIEW



PLAN



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 1/2" 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 charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). 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 an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR 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.

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)	Tt	Tb	Ts	A	B	C	D	E	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'-7 7/8"	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'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	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'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 5/8"	6'-8"	15'-2 1/2"	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'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	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 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	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 1/8"	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 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	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'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	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'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 7/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 7/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 7/8"	9.0	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 7/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 1/8"	4'-7"	20'-3 1/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 1/8"	6'-0"	22'-3 1/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 7/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 5/8"	7'-6"	25'-6 5/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 3/8"	17.4	Yes

Note:

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.

(Sheet 1 of 2)

SCB-AES 2-17-2017

USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

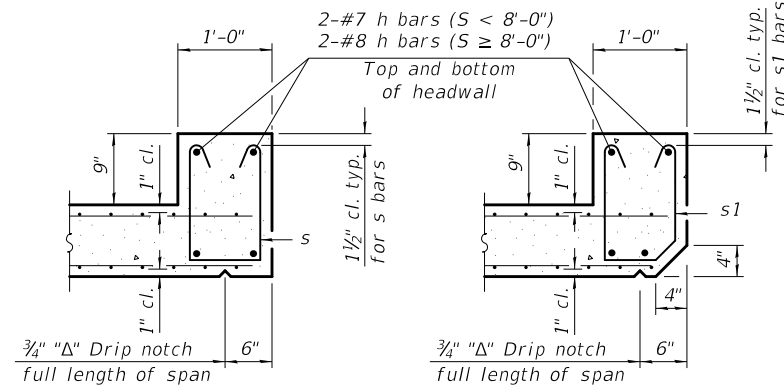
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 023-8072

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

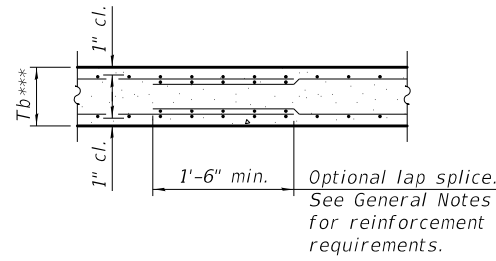
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	73
			CONTRACT NO. 70D74	

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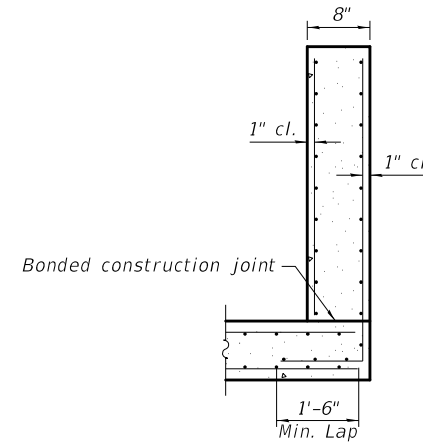
SECTION B-B  
(Top slab at downstream end)

SECTION B-B  
(Top slab at upstream end)

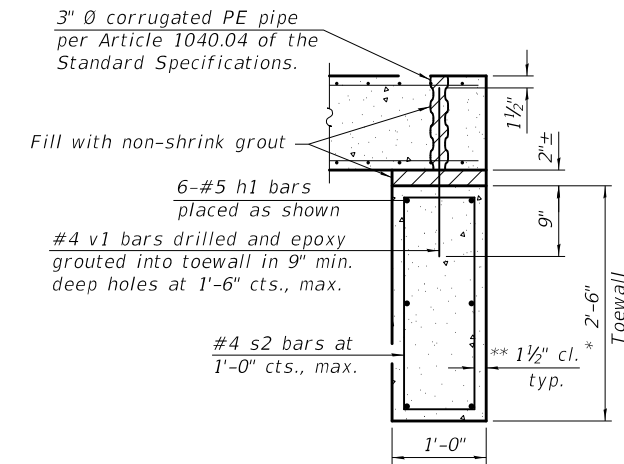


SECTION B-B  
(Bottom Slab)

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



SECTION C-C



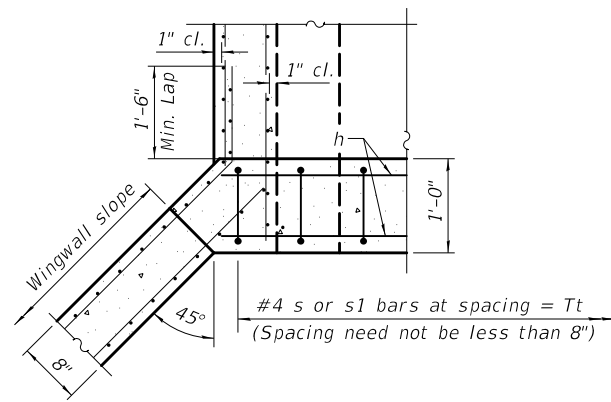
SECTION D-D

**TOEWALL CONSTRUCTION SEQUENCE**

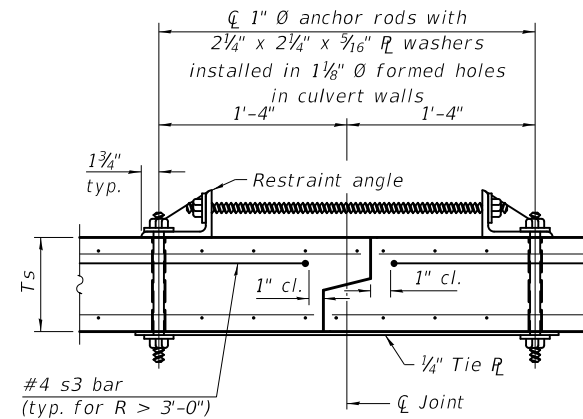
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids 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.



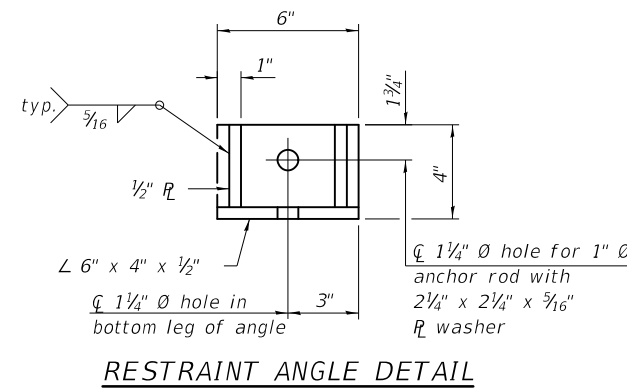
SECTION E-E



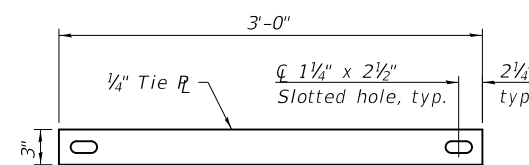
SECTION F-F  
(Showing culvert tie details)

**Notes:**

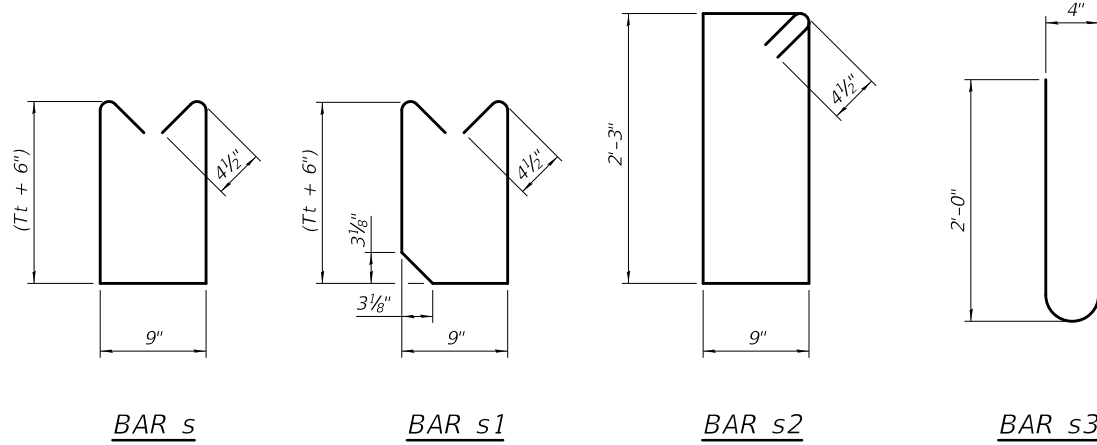
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL



BAR s

BAR s1

BAR s2

BAR s3

SCB-AES

2-17-2017

(Sheet 2 of 2)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 023-8072

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	74
CONTRACT NO. 70D74				

ILLINOIS FED. AID PROJECT

DOUGLAS & EDGAR

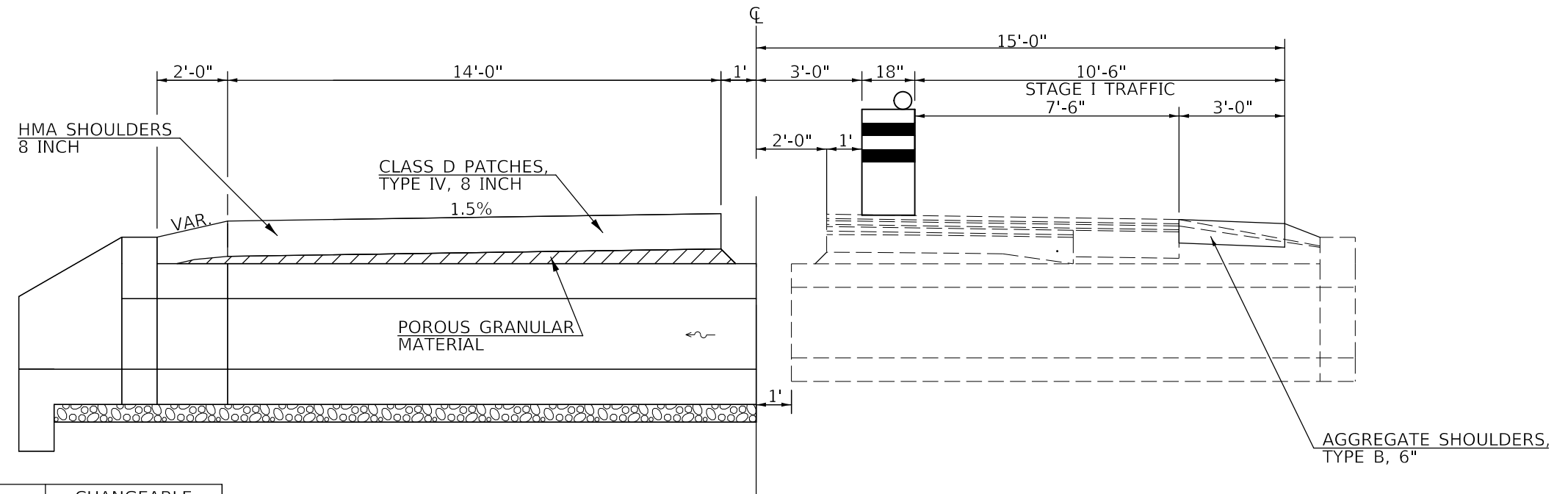
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DATE: 3/24/2020



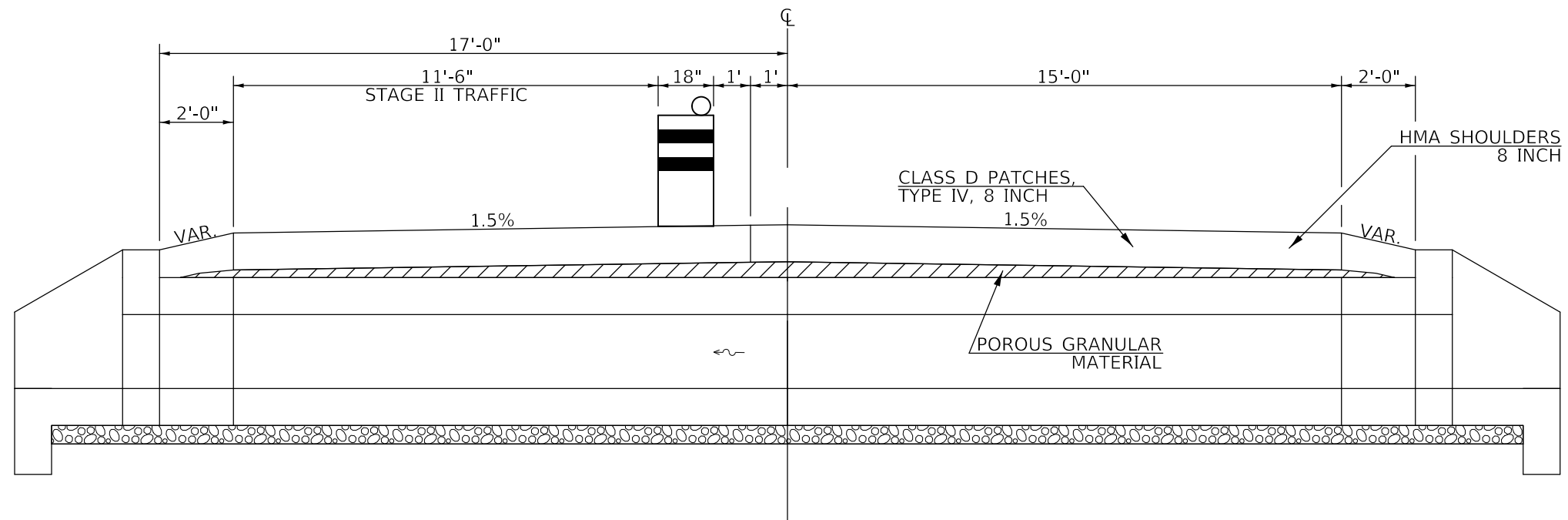
# TYPICAL STAGING DETAILS S.N. 023-8072

## GENERAL NOTES

- 1) REFER TO SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND STAGE CONSTRUCTION ACROSS ROAD CULVERTS FOR ADDITIONAL INFORMATION.
- 2) THE ENGINEER MAY REDUCE OR ELIMINATE LENGTHS OR LOCATIONS OF AGGREGATE, TYPE B, 6" AND EARTH EXCAVATION BASED ON FIELD CONDITIONS.
- 3) CONSTRUCTION DOWNSTREAM END OF A.R. CULVERT FIRST.
- 4) EARTH EXCAVATED FOR THE CONSTRUCTION OF AGGREGATE SHOULDERS, TYPE B, 6" SHALL BE DEPOSITED AND GRADED TO SMOOTH THE FORESLOPES. THIS EXCAVATED EARTH WILL BE INCLUDED IN THE FINAL CROSS-SECTION VOLUMES FOR EARTHWORK BALANCE/WASTE CALCULATIONS.
- 5) AGGREGATE SHOULDERS, TYPE B, 6" FOR STAGE I MAY BE COMPLETED AT ANY TIME PRIOR TO STAGE I. HMA SHOULDERS, 8 INCH FOR STAGE II SHALL NOT BE COMPLETED UNTIL THE HALF-WIDTH CULVERT FROM STAGE I HAS BEEN CONSTRUCTED.
- 6) REPLACE PREVIOUSLY CONSTRUCTED AGGREGATE SHOULDERS, TYPE B, 6" AS NEEDED WHEN PLACING HMA SHOULDERS, 8 INCH.
- 7) REMOVAL OF AGGREGATE SHOULDERS, TYPE B, 6" SHALL BE INCLUDED IN THE COST OF HMA SHOULDER, 8 INCH.



A.R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 188+90.05	701201	2 DAYS - 24 HRS. - DAY TIME (2) - 12 HR. DAY SHIFTS	N/A



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 PLOT DATE: 3/24/2020  
 PROJECT: ILLINOIS STATE HIGHWAY DEPARTMENT  
 OFFICE: DISTRICT 5  
 PROJECT: 023-8072  
 SHEET: 76 OF 224

USER NAME = PiersonJ	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>STAGING DETAILS</b>			
<b>S.N. 023-8072; CULVERT NO. 1</b>			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

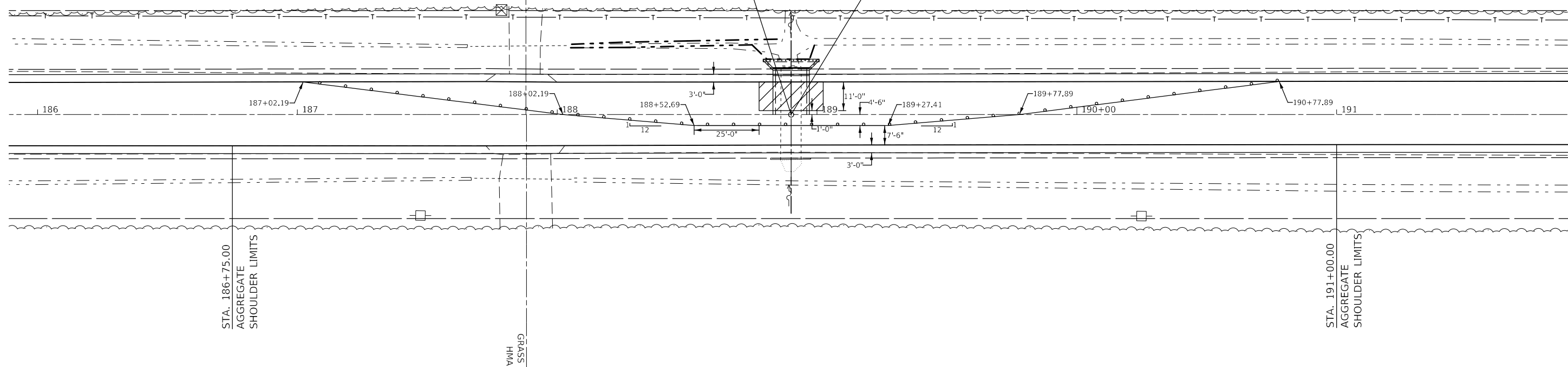
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	76
			CONTRACT NO. 70D74	



**STAGE I**

PROPOSED S.N. 023-8072  
PRECAST CONCRETE BOX CULVERT  
1 @ 12' X 2' x 36'  
CL STATION 188+90.05  
SKEW = 0°  
BOX CULVERT END SECTION,  
CULVERT NO. 1 = 2 EACH

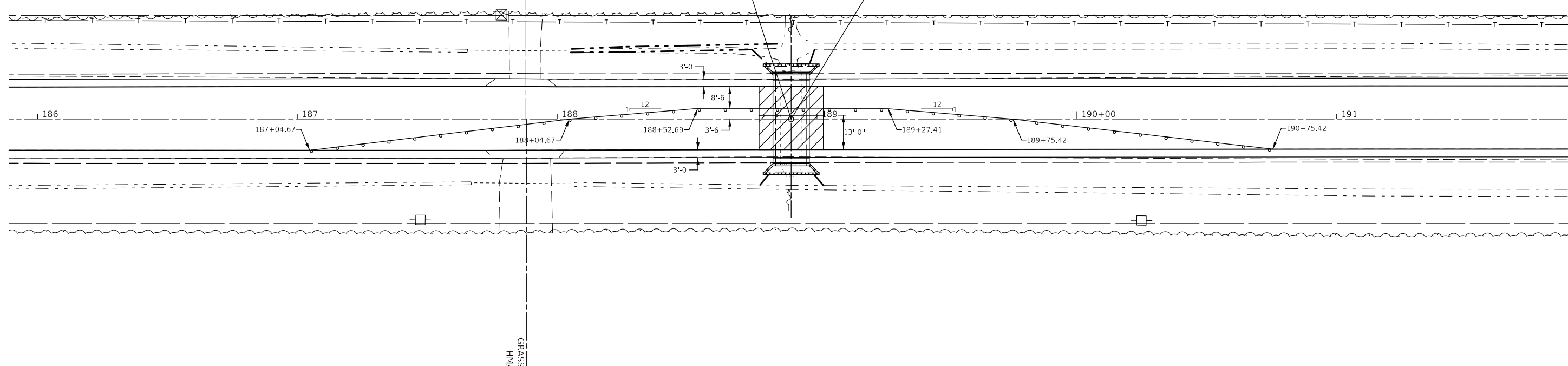
EXISTING S.N. 023-8067  
CAST-IN-PLACE BOX CULVERT  
1 @ 8' x 2' x 34'  
CL STATION 188+90.05  
SKEW = 0°



**STAGE II**

PROPOSED S.N. 023-8072  
PRECAST CONCRETE BOX CULVERT  
1 @ 12' X 2' x 36'  
CL STATION 188+90.05  
SKEW = 0°  
BOX CULVERT END SECTION,  
CULVERT NO. 1 = 2 EACH

EXISTING S.N. 023-8067  
CAST-IN-PLACE BOX CULVERT  
1 @ 8' x 2' x 34'  
CL STATION 188+90.05  
SKEW = 0°



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USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
S.N. 023-8072; CULVERT NO. 1**

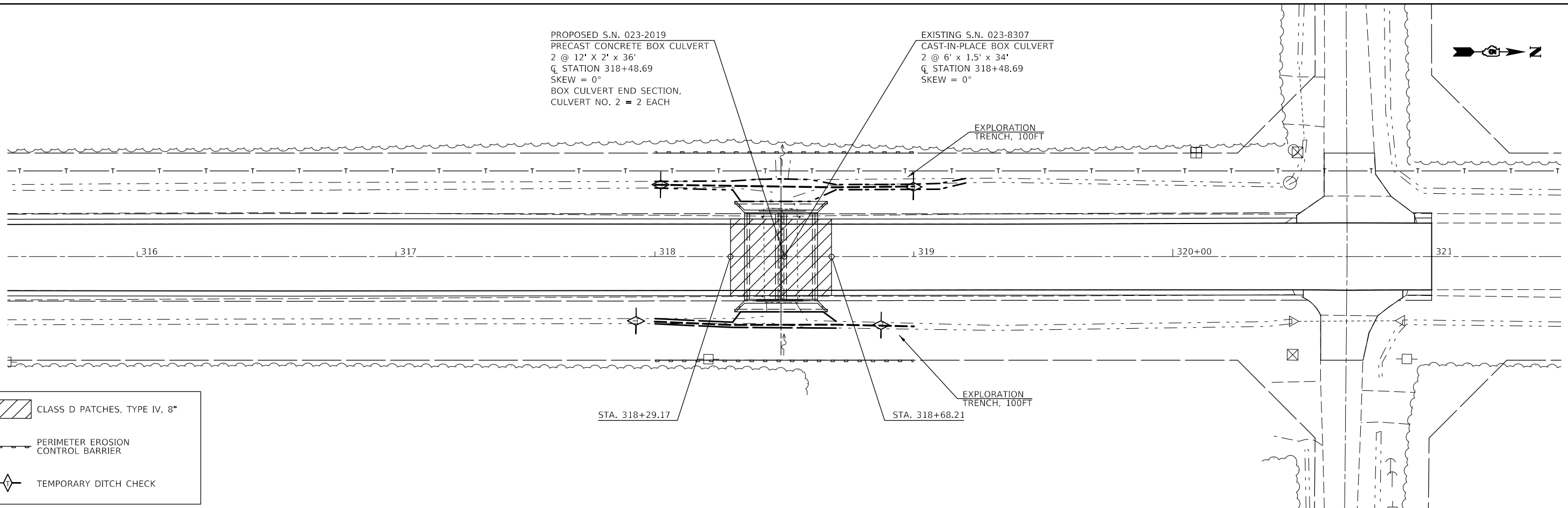
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	77
CONTRACT NO. 70D74				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATION CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	CADD FILE NAME	

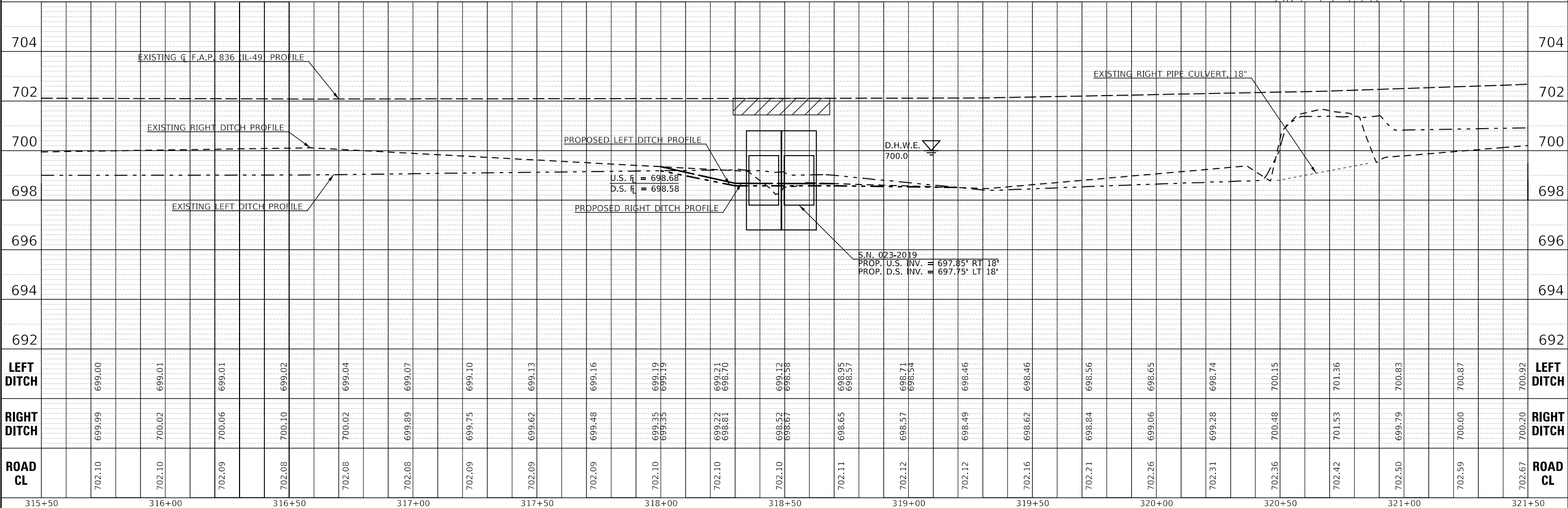
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CLASS D PATCHES, TYPE IV, 8"

PERIMETER EROSION CONTROL BARRIER

TEMPORARY DITCH CHECK



LEFT DITCH	699.00	699.01	699.01	699.02	699.04	699.07	699.10	699.13	699.16	699.19	699.21	699.12	698.52	698.57	698.71	698.46	698.46	698.56	698.65	698.74	700.15	701.36	700.83	700.87	700.92	RIGHT DITCH	699.99	700.02	700.06	700.10	700.02	699.89	699.75	699.62	699.48	699.35	698.81	698.52	698.65	698.57	698.71	698.49	698.62	698.84	699.06	699.28	700.48	701.53	700.79	700.00	700.20	ROAD CL	702.10	702.10	702.09	702.08	702.08	702.08	702.09	702.09	702.09	702.10	702.10	702.10	702.11	702.12	702.12	702.12	702.16	702.21	702.26	702.31	702.36	702.42	702.50	702.59	702.67	ROAD CL
	315+50	316+00	316+50	317+00	317+50	318+00	318+50	319+00	319+50	320+00	320+50	321+00	321+50																																																																	

USER NAME = PiersonTJ	DESIGNED -	REVISOR -
	DRAWN -	REVISION -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISION -
PLOT DATE = 3/24/2020	DATE -	REVISION -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE - BOX CULVERT NO. 2  
 STA. 318 + 48.69, S.N. 023-2019**

SCALE: 1"=20'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE. 836	SECTION **	COUNTY	TOTAL SHEETS 224	SHEET NO. 78
			CONTRACT NO. 70D74	
		ILLINOIS	FED. AID PROJECT	* DOUGLAS & EDGAR

\*\* (116,117)RS-5, D5 HSIP 2020-1

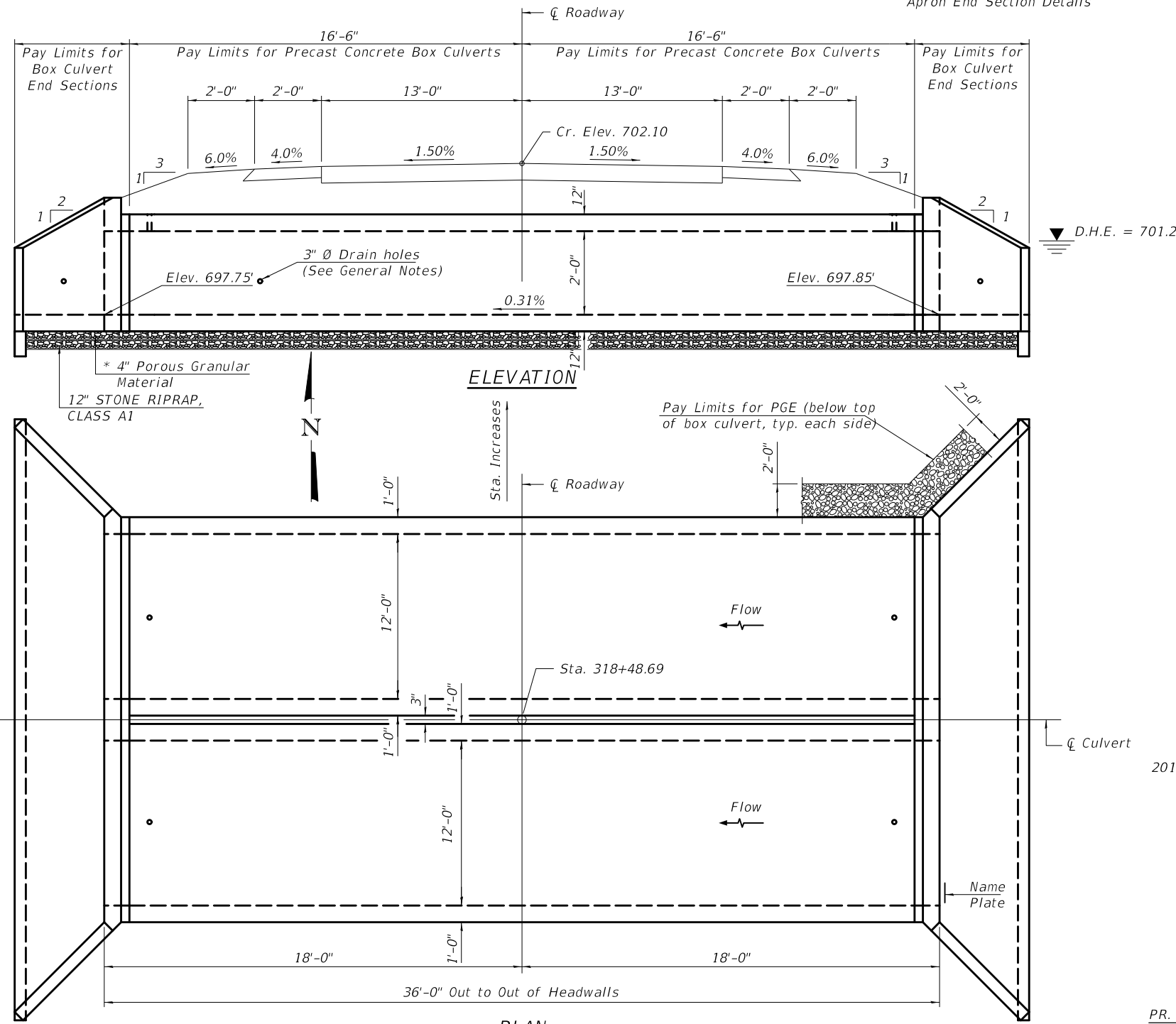
Existing Structure: 023-8307

**INDEX OF SHEETS**

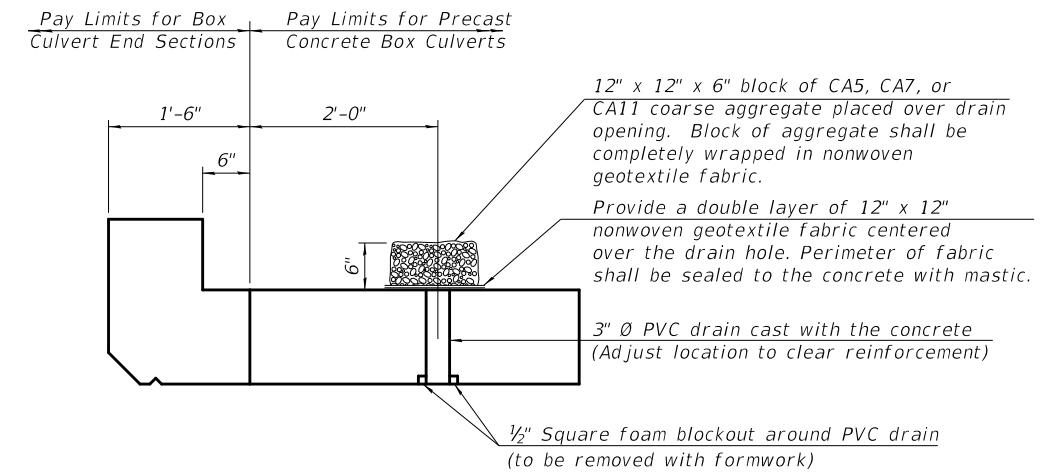
- 1. General Plan and Elevation
- 2.-3. Multi-cell Precast Concrete Box Culvert Apron End Section Details

**GENERAL NOTES**

The design fill height for this box is 1.33 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment 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.  
 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 yard. Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.  
 \* POROUS GRANULAR MATERIAL (CA-6)  
 (included with precast box culvert)



D.H.E. = 701.2



**DRAIN DETAIL**

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

**PROFILE GRADE**

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition with 2013 Interims

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

PR. S.N. 023-2019  
 STA. 318+48.69

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 2	Each	2.0
Precast Concrete Box Culverts, 12x2	Foot	66.0

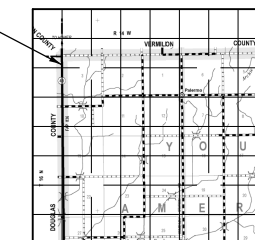
**WATERWAY INFORMATION**

Drainage Area = 0.36 sq. mi. Low Grade Elev. = 702.08 @ Sta. 316+58.70

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	143	16	29	699.9	2.2	0.6	702.1	700.5
Base	50	208	17	32	700.0	2.2	1.2	702.2	701.2
Overtop Ex	100	243	17	32	700.0	2.2	1.7	702.2	701.7
Overtop Pro	10	143	16	34	699.9	2.2	2.0	702.1	702.1

STATION 318+48.69  
 BUILT 2020 BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 836  
 SEC. 117CR  
 LOADING HL-93  
 STR. NO. 023-2019

**NAME PLATE**  
 See Std. 515001



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**IL RTE. 49 OVER UN-NAMED INTERMITTENT STREAM**  
**F.A.P. RTE. 836 SEC. (116,117)RS-5,D5 HSIP 2020-1**  
**EDGAR COUNTY**  
**STATION 318+48.69**  
**S.N. 023-2019**

DCB-GPE

2-17-2017

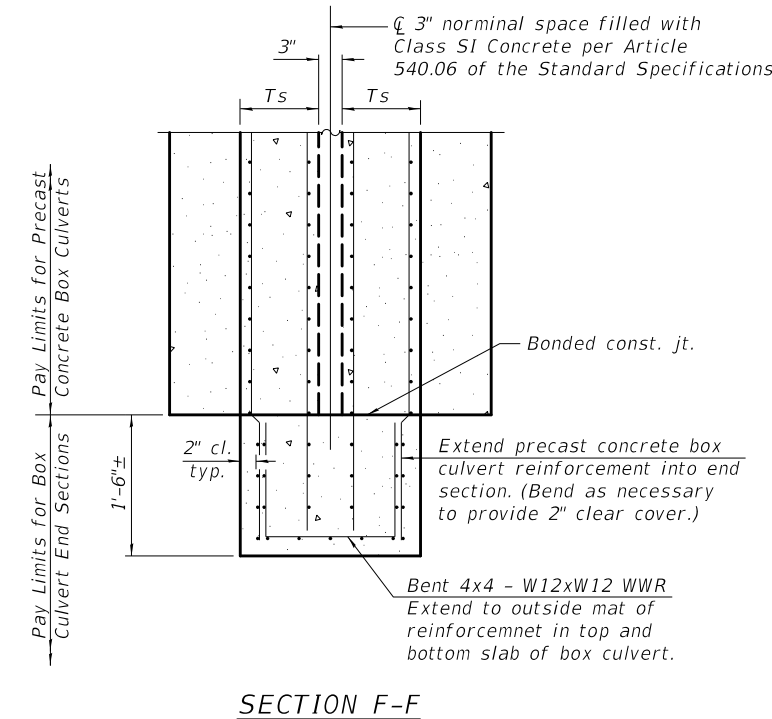
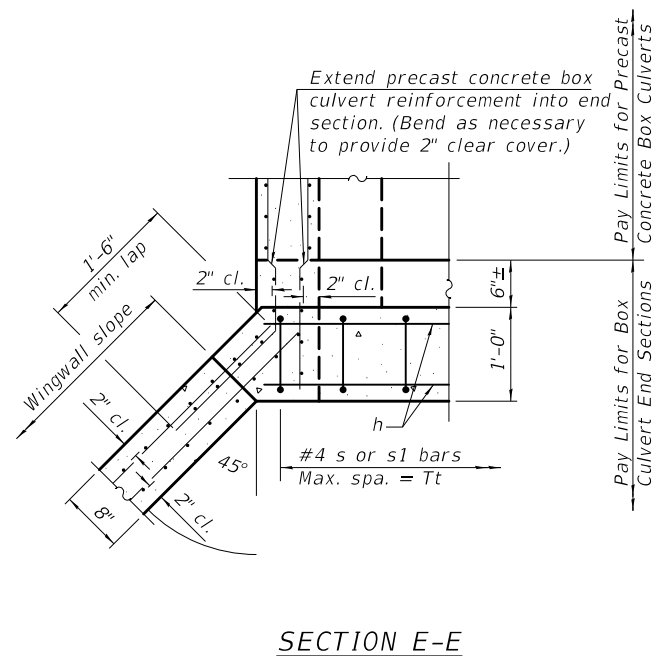
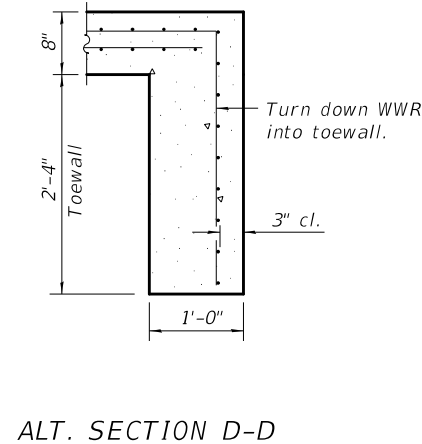
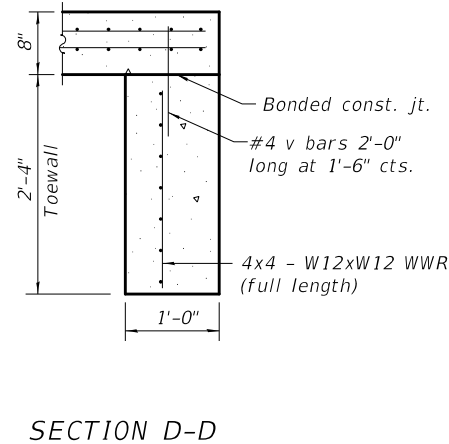
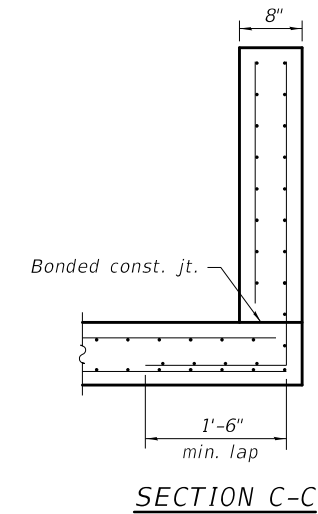
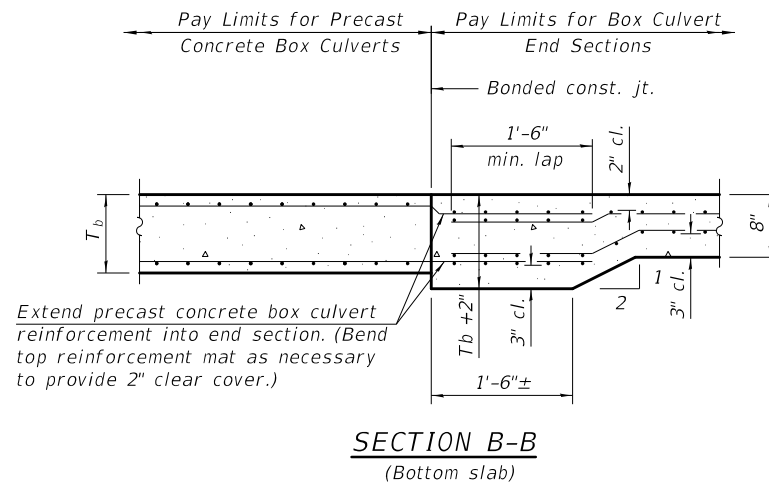
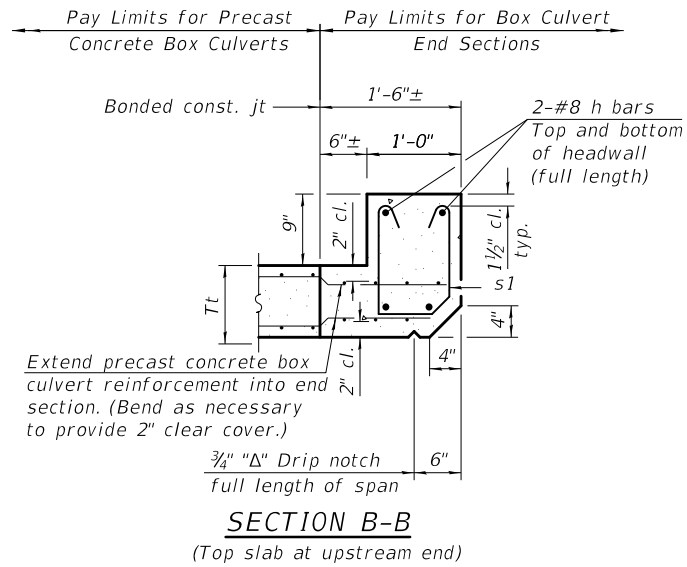
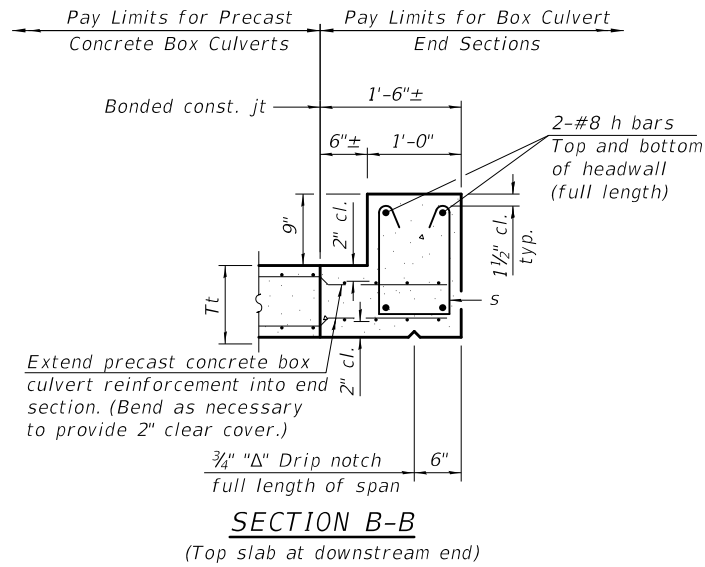
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	DATE -	REVISED -

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

**GENERAL PLAN AND ELEVATION S.N.023-2019**  
**IL 49 CULVERT STA. 318 + 48.69**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	79
			CONTRACT NO. 70D74	

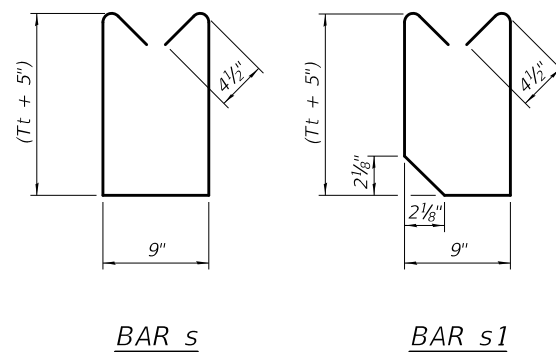


**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



(Sheet 2 of 2)

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MCB-AES

2-17-2017

USER NAME = PiersonTJ	DESIGNED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 023-2019

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	80
			CONTRACT NO. 70D74	

ILLINOIS FED. AID PROJECT

DOUGLAS & EDGAR



**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.

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.

Details for Double Cell Box Culvert shown. Details for Triple Cell Box Culvert similar.

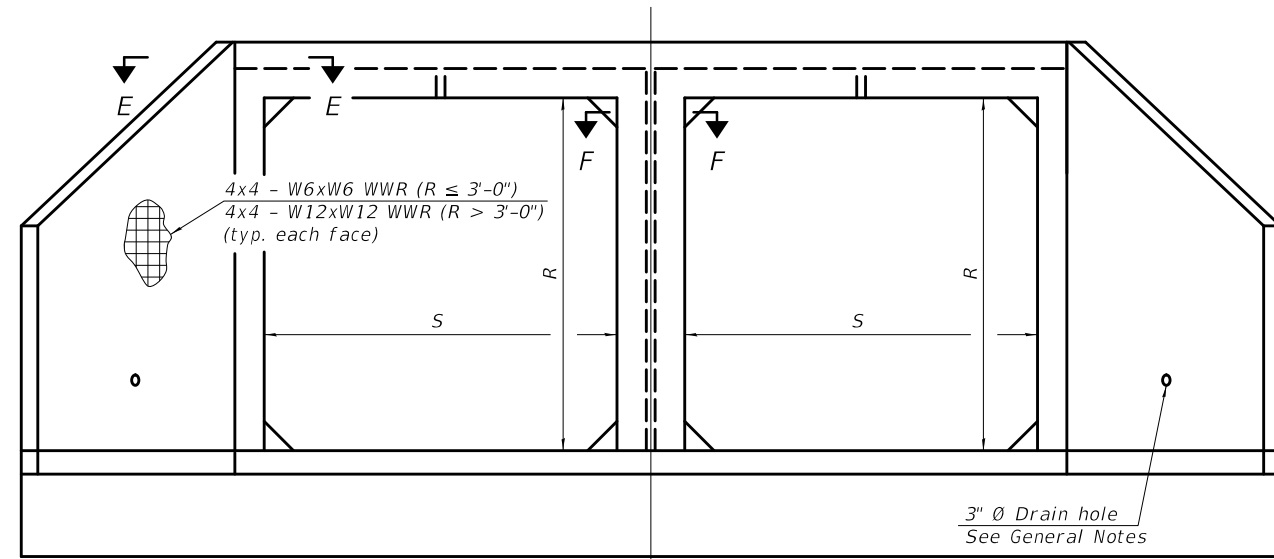
The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

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 1/2" nor more than 2".

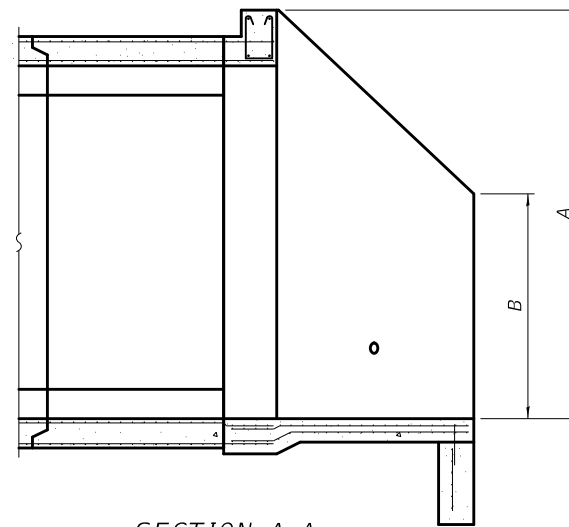
The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided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

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement 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.

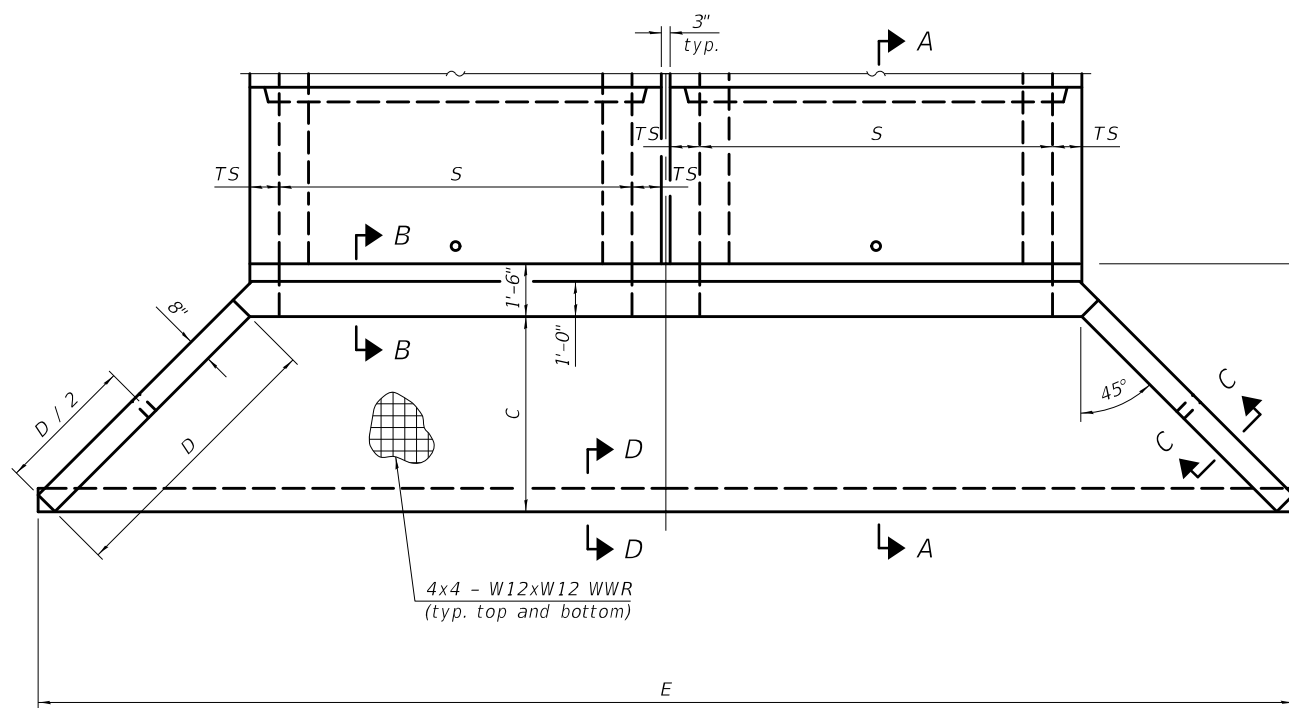
One drain hole shall be provided in each wingwall in end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



**END VIEW**



**SECTION A-A**



**PLAN**

**APRON END SECTION DIMENSIONS**

Span (S)	Rise (R)	Tt, Tb, & Ts	Double Cell				Triple Cell			
			A	B	C	D	E	Concrete Cu. Yd.	E	Concrete Cu. Yd.
7'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	23'-9"	6.6		
7'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	25'-9 1/8"	8.0		
7'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	27'-9 1/8"	9.5		
7'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	29'-9 1/8"	11.2		
7'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	31'-9 1/4"	13.1		
8'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	25'-9"	7.1		
8'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	27'-9 1/8"	8.6		
8'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	29'-9 1/8"	10.2		
8'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	31'-9 1/8"	11.9		
8'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	33'-9 1/4"	13.8		
9'-0"	2'-0"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	28'-3 3/8"	8.2	39'-0 7/8"	11.4
9'-0"	3'-0"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	30'-3 3/8"	9.7	41'-0 7/8"	13.3
9'-0"	4'-0"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	32'-3 3/8"	11.4	43'-0 7/8"	15.4
9'-0"	5'-0"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	34'-4"	13.2	45'-1"	17.6
9'-0"	6'-0"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	36'-2 3/8"	15.1	46'-11 3/8"	19.8
10'-0"	2'-0"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	30'-9 1/4"	9.2	42'-8 1/4"	13.0
10'-0"	3'-0"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	32'-9 1/4"	10.8	44'-8 1/4"	15.0
10'-0"	4'-0"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	34'-9 3/8"	12.6	46'-8 3/8"	17.2
10'-0"	5'-0"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	36'-9 3/8"	14.5	48'-8 3/8"	19.5
10'-0"	6'-0"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	38'-9 3/8"	16.6	50'-8 3/8"	22.0
11'-0"	2'-0"	11"	3'-8"	2'-4"	3'-2 7/8"	4'-7"	33'-4 1/8"	10.4	46'-5 1/8"	14.7
11'-0"	3'-0"	11"	4'-8"	2'-10"	4'-2 7/8"	6'-0"	35'-4 1/8"	12.1	48'-5 1/8"	16.9
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11'-0"	5'-0"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	39'-2 7/8"	15.8	52'-3 7/8"	21.4
11'-0"	6'-0"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	41'-2 7/8"	18.1	54'-3 7/8"	24.2
12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	35'-9 1/2"	11.6	50'-0 1/2"	16.5
12'-0"	3'-0"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	37'-9 1/2"	13.4	52'-0 1/2"	18.8
12'-0"	4'-0"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	39'-9 3/8"	15.4	54'-0 3/8"	21.2
12'-0"	5'-0"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	41'-9 3/8"	17.6	56'-0 3/8"	23.8
12'-0"	6'-0"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	43'-9 3/8"	19.8	58'-0 3/8"	26.6

(Sheet 1 of 2)

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MCB-AES

2-17-2017

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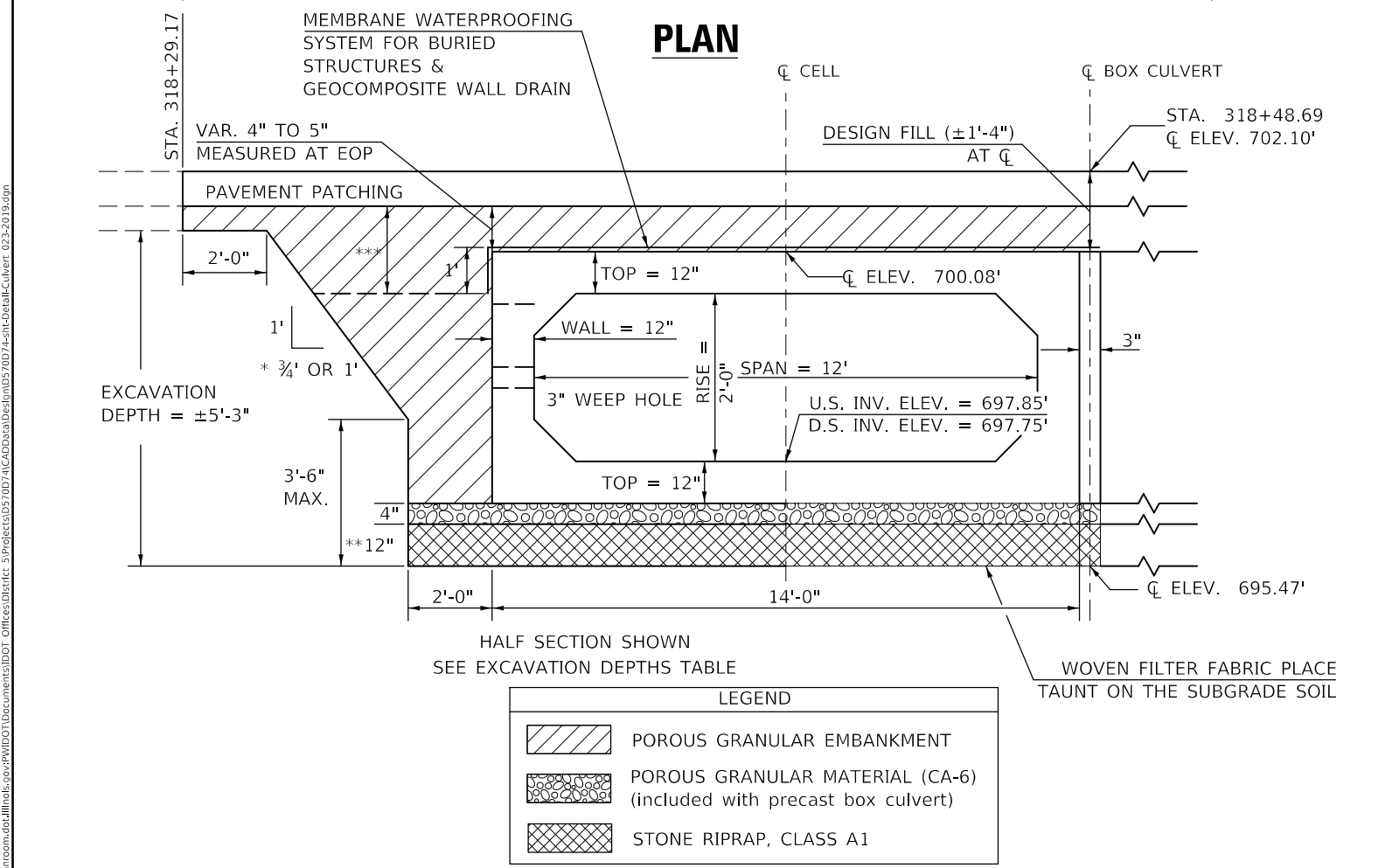
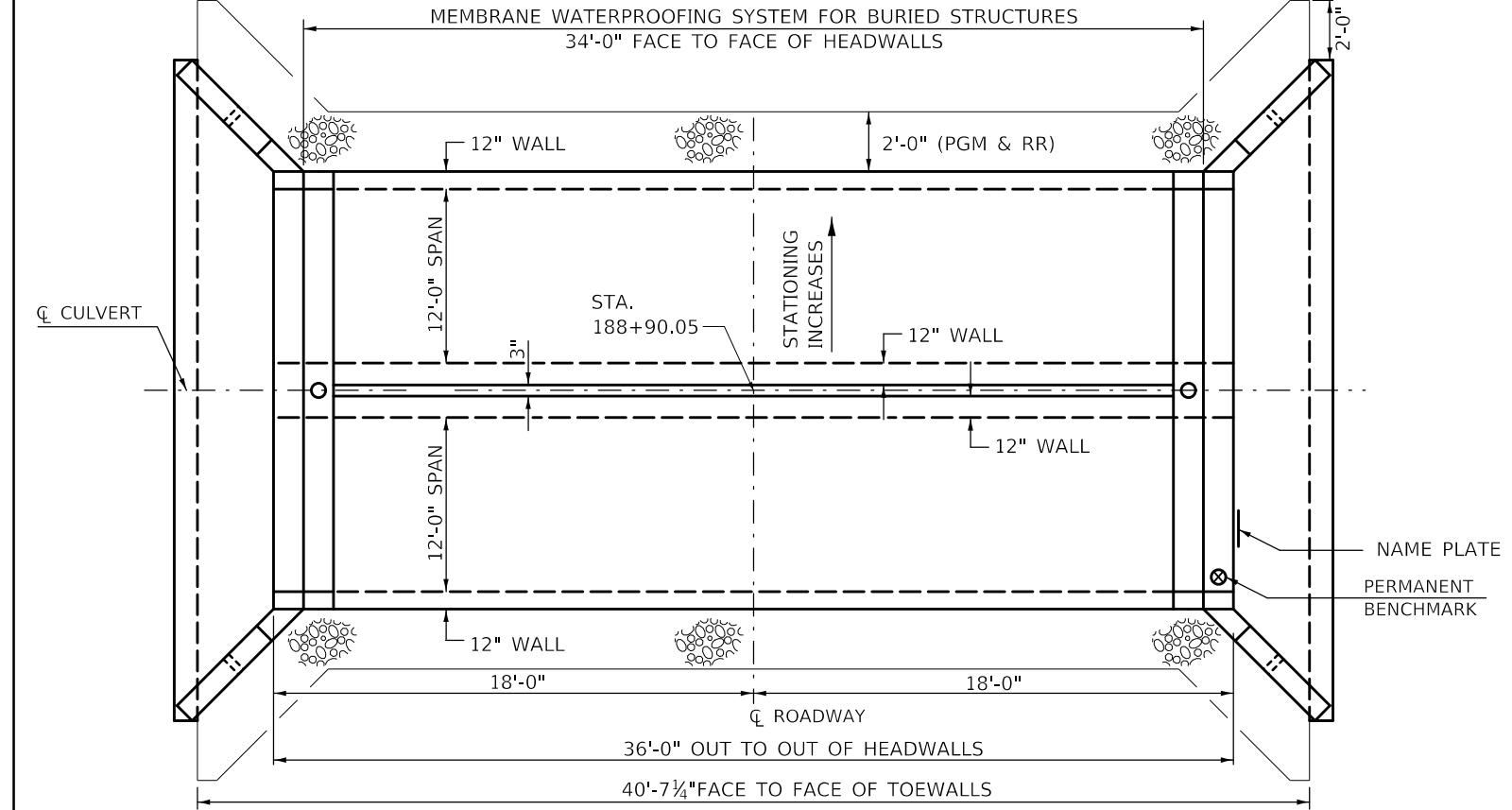
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 023-2019**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 836	SECTION **	COUNTY -	TOTAL SHEETS 224	SHEET NO. 81
			CONTRACT NO. 70D74	
		ILLINOIS FED. AID PROJECT		DOUGLAS & EDGAR

\*\*(116,117)RS-5, D5 HSIP 2020-1



LEGEND	
	POROUS GRANULAR EMBANKMENT
	POROUS GRANULAR MATERIAL (CA-6) (included with precast box culvert)
	STONE RIPRAP, CLASS A1

### STONE RIPRAP, CLASS A1 (IF REQUIRED)

\*\* STONE RIPRAP, CLASS A1 SHALL BE USED TO ADDRESS UNSTABLE SOIL CONDITIONS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

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 DISPOSAL OF UNSUITABLE MATERIAL SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH 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 SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

THE COARSE AGGREGATE QUALITY SHALL BE CLASS D OR BETTER AND THE GRADTION SHALL BE CA-6 OR CA-10.

POROUS GRANULAR EMBANKMENT WILL BE MEASURED FOR PAYMENT IN CUBIC YARDS, IN PLACE AS SHOWN. IF THE CONTRACTOR CHOOSES TO EXCAVATE BEYOND THE LIMITS SHOWN, ADDITIONAL QUANTITIES OF POROUS GRANULAR EMBANKMENT WILL BE AT HIS/HER OWN EXPENSE.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT AND END SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH PRECAST CONCRETE BOX CULVERTS.

\*\*\* IN LIEU OF POROUS GRANULAR EMBANKMENT, THE CONTRACTOR MAY, AT NO ADDITIONAL COST TO THE DEPARTMENT, BACKFILL THE TRENCH FROM THE MEMBRANE WATERPROOFING TO BOTTOM OF PAVEMENT, EXCEPT THE OUTER 3 FT, WITH CONTROLLED LOW-STRENGTH MATERIAL ACCORDING TO SECTION 593.

### MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

SEE SPECIAL PROVISIONS

### BILL OF MATERIAL

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	60.0
STONE RIPRAP, CLASS A1	TON	89.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	114.0
CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	130.0
FILTER FABRIC	SQ YD	149.0
GEOCOMPOSITE WALL DRAIN	SQ YD	114.0

EXCAVATION DEPTHS	* SLOPES
5'-0" < EXCAVATION DEPTH <= 8'-0"	3/4' : 1'
8'-0" < EXCAVATION DEPTH <= 12'-0"	1' : 1'
12'-0" < EXCAVATION DEPTH <= 20'-0"	1' : 1'

MUST BE SLOPED FROM EXCAVATION BOTTOM OR SPECIAL DESIGN BY S.E. SEE ARTICLE 522.07 FOR TEMPORARY SOIL RETENTION SYSTEM

\*SLOPED EXCAVATION IN TYPE A SOIL SHOWN PER APPENDIX B OF OSHA CFR LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

OPTIONAL CONFIGURATIONS MAY BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS CONTAINED IN THE CODE OF FEDERAL REGULATIONS LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.

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

### DISTRICT 5 DETAIL NO. 20700220

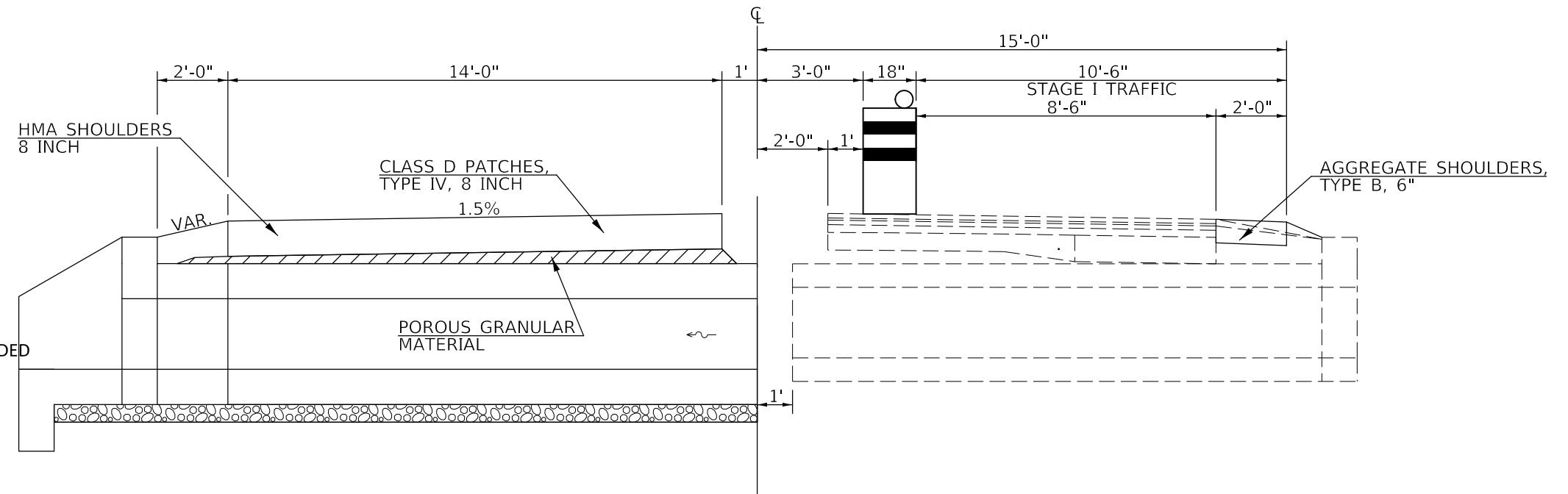
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\*(116,117)RS-5, D5 HSIP 2020-1 \* DOUGLAS & EDGAR

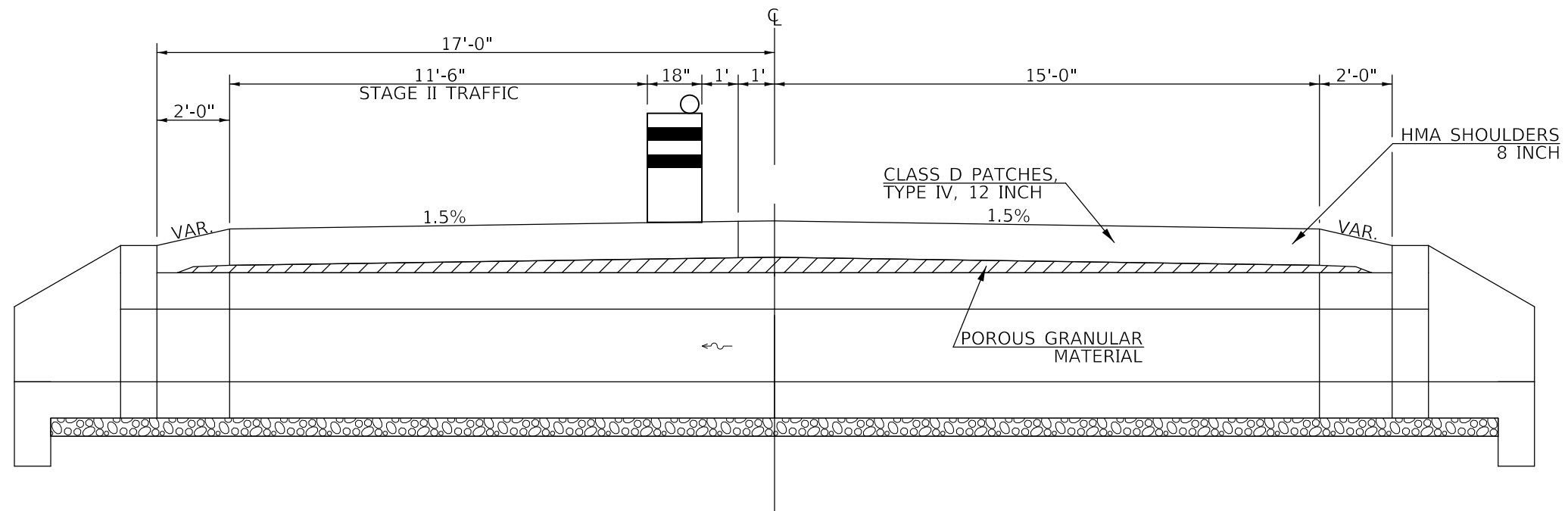
# TYPICAL STAGING DETAILS S.N. 023-2019

## GENERAL NOTES

- 1) REFER TO SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 AND STAGE CONSTRUCTION ACROSS ROAD CULVERTS FOR ADDITIONAL INFORMATION.
- 2) THE ENGINEER MAY REDUCE OR ELIMINATE LENGTHS OR LOCATIONS OF AGGREGATE, TYPE B, 6" AND EARTH EXCAVATION BASED ON FIELD CONDITIONS.
- 3) CONSTRUCTION DOWNSTREAM END OF A.R. CULVERT FIRST.
- 4) EARTH EXCAVATED FOR THE CONSTRUCTION OF AGGREGATE SHOULDERS, TYPE B, 6" SHALL BE DEPOSITED AND GRADED TO SMOOTH THE FORESLOPES. THIS EXCAVATED EARTH WILL BE INCLUDED IN THE FINAL CROSS-SECTION VOLUMES FOR EARTHWORK BALANCE/WASTE CALCULATIONS.
- 5) AGGREGATE SHOULDERS, TYPE B, 6" FOR STAGE I MAY BE COMPLETED AT ANY TIME PRIOR TO STAGE I. HMA SHOULDERS, 8 INCH FOR STAGE II SHALL NOT BE COMPLETED UNTIL THE HALF-WIDTH CULVERT FROM STAGE I HAS BEEN CONSTRUCTED.
- 6) REPLACE PREVIOUSLY CONSTRUCTED AGGREGATE SHOULDERS, TYPE B, 6" AS NEEDED WHEN PLACING HMA SHOULDERS, 8 INCH.
- 7) REMOVAL OF AGGREGATE SHOULDERS, TYPE B, 6" SHALL BE INCLUDED IN THE COST OF HMA SHOULDER, 8 INCH.
- 8) SEE SPECIAL PROVISIONS FOR CMS BOARD PLACEMENT.



A.R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 318+48.69	701206	2 DAYS - 48 HRS. - NON-STOP (2) - 12 HR. DAY SHIFTS (2) - 12 HR. NIGHT SHIFTS	2 EACH AT 2.0 CAL DAY = 4.0 CAL DAY



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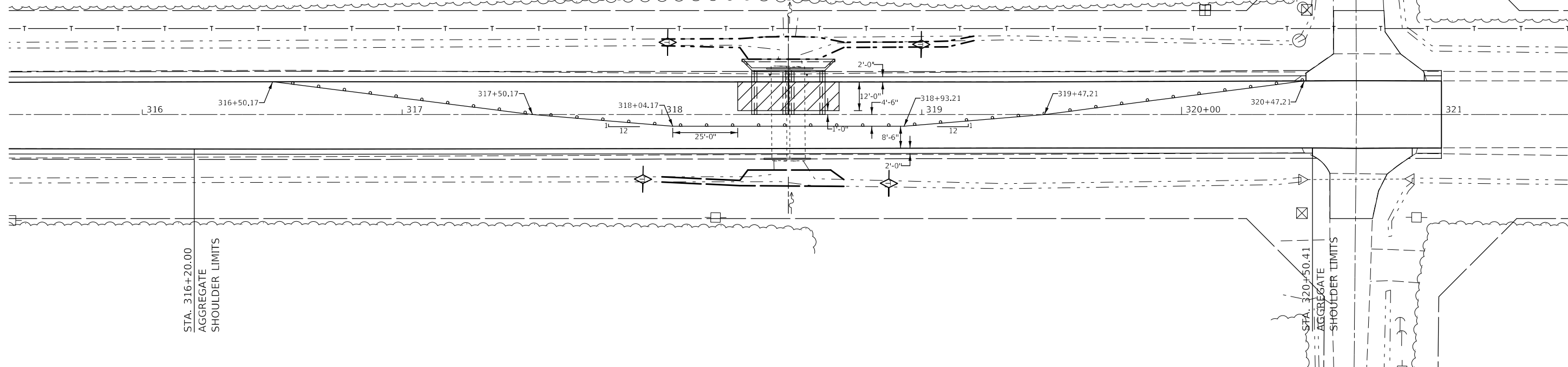
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

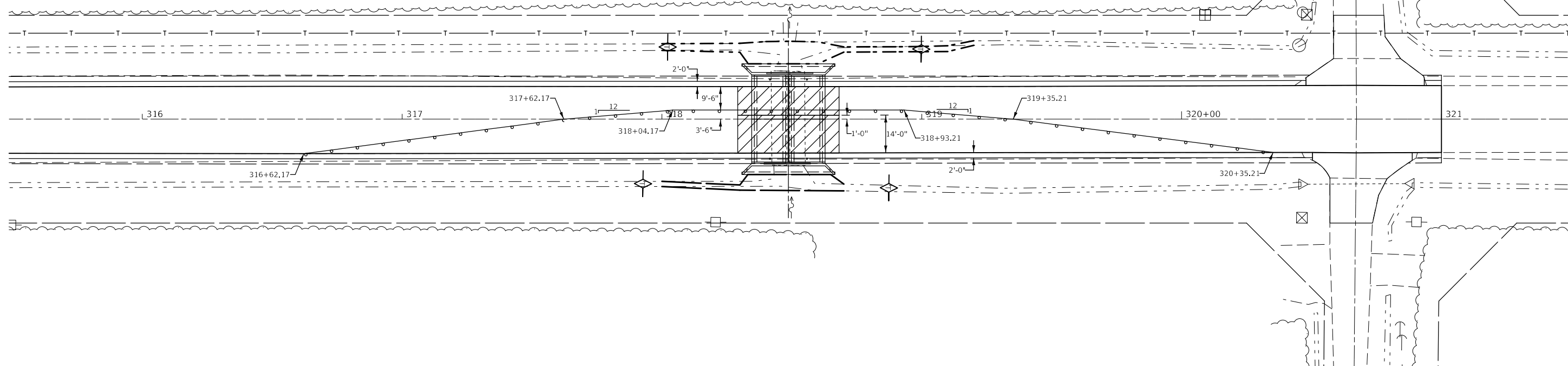
<b>STAGING DETAILS</b>			
<b>S.N. 023-2019; CULVERT NO. 2</b>			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	83
			CONTRACT NO. 70D74	

**STAGE I**



**STAGE II**



MODEL: s:\MODEL\MAR15  
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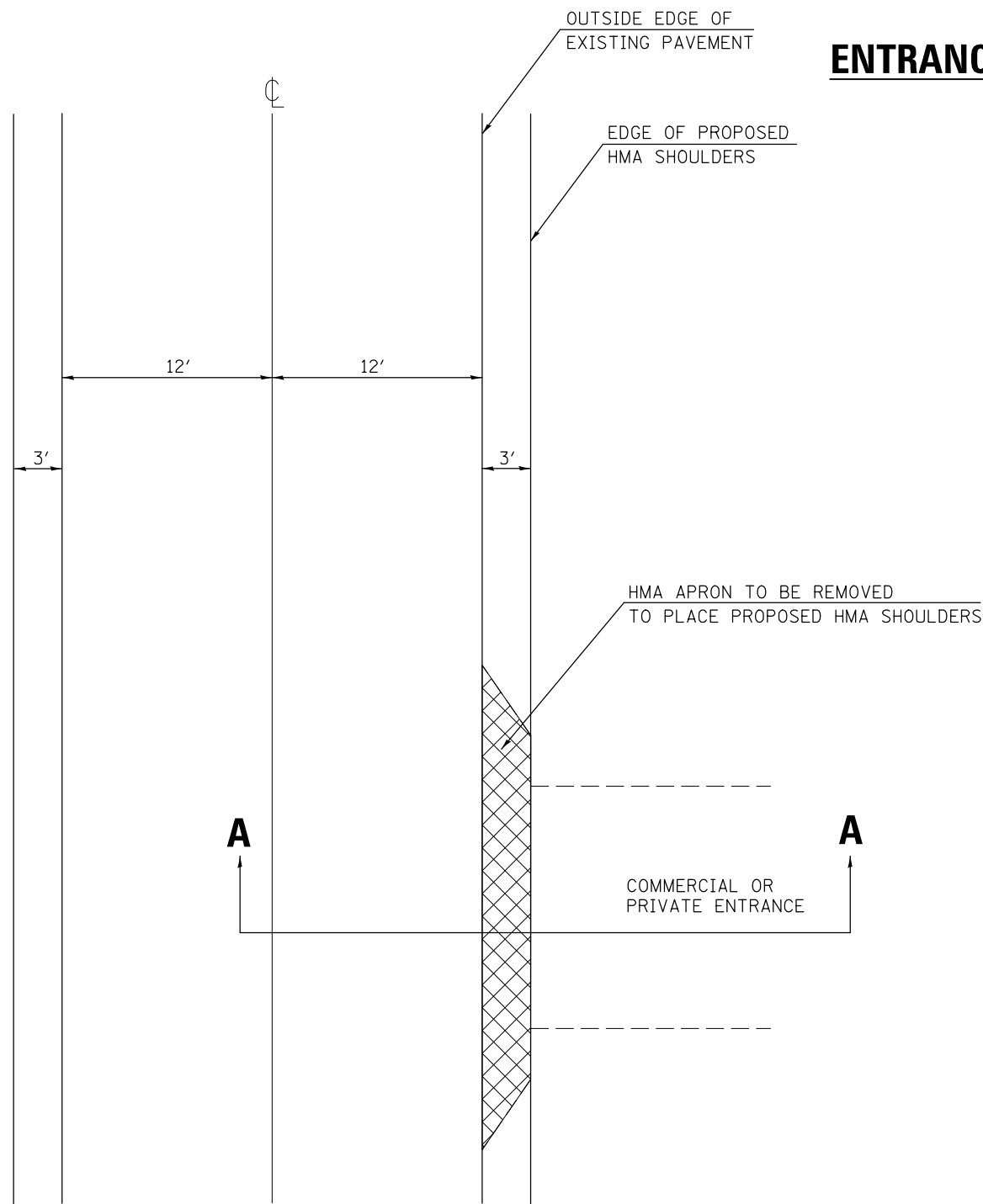
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	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

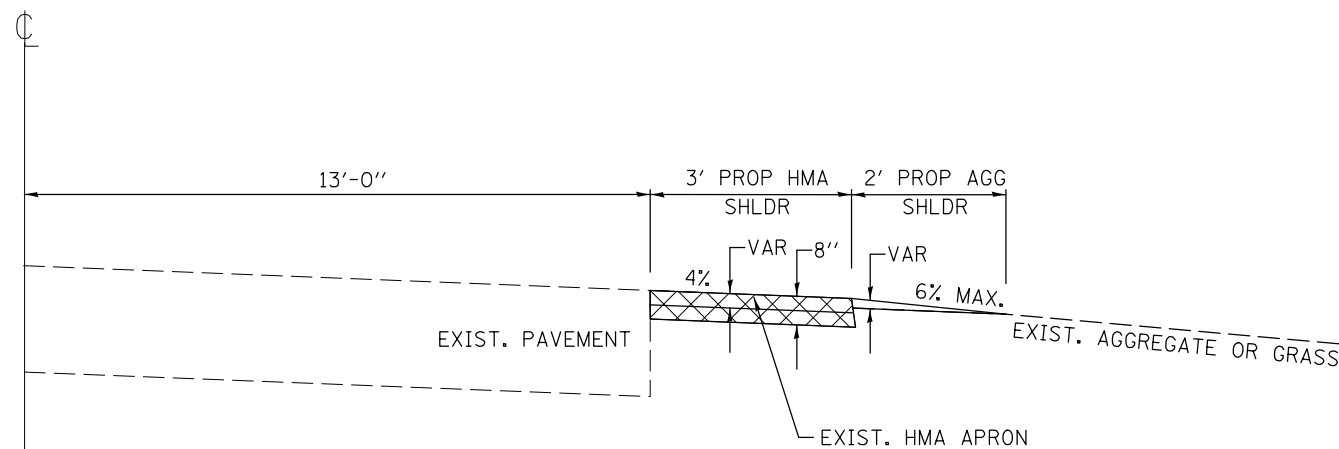
<b>TRAFFIC CONTROL PLAN</b> <b>S.N. 023-2019; CULVERT NO. 2</b>			
SCALE: 1"=20'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**		224	84
CONTRACT NO. 70D74				

# ENTRANCE WITH HMA APRON



**PLAN**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

\*PAVEMENT REMOVAL

\*MATERIAL REMOVAL UNDER HMA REQUIRED TO MEET DEPTH NEEDED FOR SHOULDER INSTALLATION INCLUDED IN COST OF PAVEMENT REMOVAL

MODEL: \\MODEL\MAT\...  
 FILE NAME: ...

USER NAME = PiersonTJ	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 3/24/2020	DATE -	REVISED -	

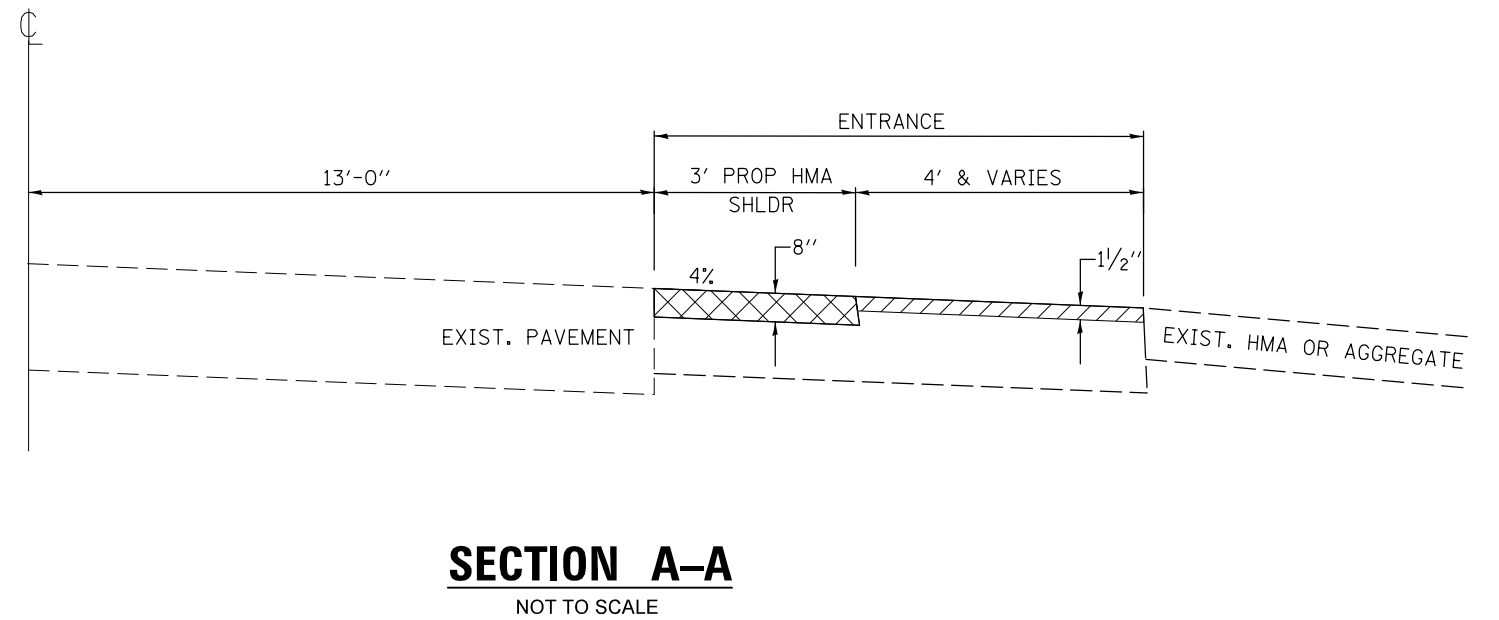
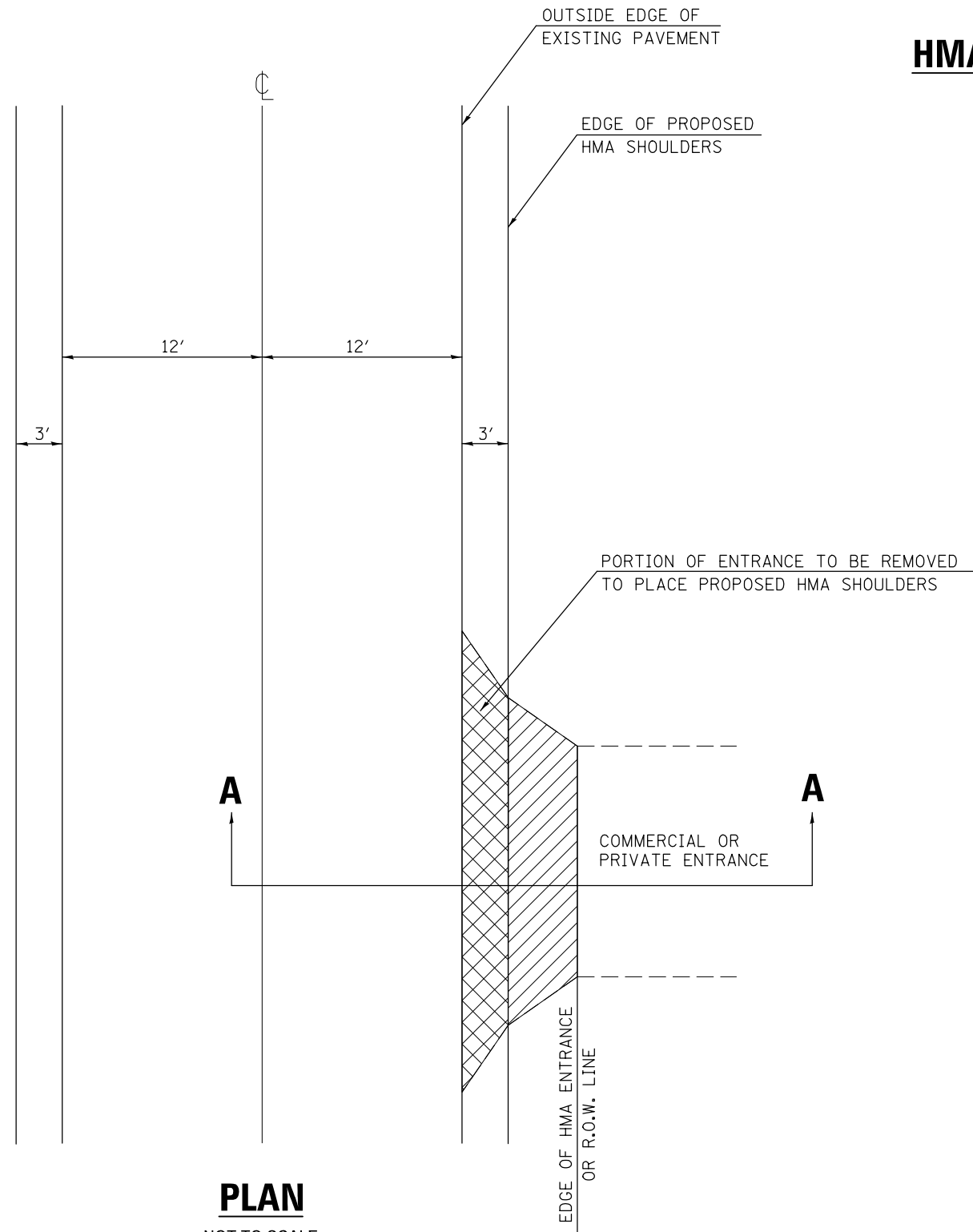
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL ENTRANCE DETAIL  
AGGREGATE OR EARTH ENTRANCE**

SCALE: N.T.S.    SHEET 1 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	85
CONTRACT NO. 70D74				

# HMA ENTRANCE



\*PAVEMENT REMOVAL



HMA SURFACE REMOVAL, SPECIAL & INCIDENTAL HMA SURFACE

\*MATERIAL REMOVAL UNDER HMA REQUIRED TO MEET DEPTH NEEDED FOR SHOULDER INSTALLATION INCLUDED IN COST OF PAVEMENT REMOVAL

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 FILE NAME: \\HMA\HMA...

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PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL ENTRANCE DETAIL  
PAVED ENTRANCE

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	86
CONTRACT NO. 70D74				

ILLINOIS FED. AID PROJECT

DOUGLAS & EDGAR

STR. NO.	STATION	SIDE	DIMENSIONS				NO. h BARS	h BAR LENGTH	NO. d BARS	d BAR LENGTH
			A	B	C	D				
N/A	654+91.09	RT	8'-6"	0'-10"	0'-8"	0'-8"	2	8'-2"	9	1'-5"
N/A	654+91.13	LT	8'-10"	0'-8"	0'-6"	0'-8"	2	8'-6"	9	1'-3"
S.N. 023-8045	703+62.21	LT	17'-6"	0'-6"	0'-4"	0'-8"	2	17'-2"	18	1'-1"
S.N. 023-8044	723+84.02	RT	13'-6"	0'-8"	0'-6"	0'-8"	2	13'-2"	14	1'-3"
S.N. 023-8044	723+84.17	LT	13'-2"	0'-8"	0'-6"	0'-8"	2	12'-10"	13	1'-3"
N/A	770+75.77	RT	12'-6"	0'-10"	0'-8"	0'-8"	2	12'-2"	13	1'-5"
N/A	770+75.78	LT	12'-6"	0'-10"	0'-8"	0'-8"	2	12'-2"	13	1'-5"
N/A	793+01.31	RT	8'-0"	0'-4"	0'-2"	0'-8"	2	7'-8"	8	0'-11"
N/A	793+01.31	LT	8'-0"	0'-10"	0'-8"	0'-8"	2	7'-8"	8	1'-5"
N/A	801+77.01	RT	8'-0"	0'-8"	0'-6"	0'-8"	2	7'-8"	8	1'-3"
N/A	801+76.95	LT	8'-10"	0'-10"	0'-8"	0'-8"	2	8'-6"	9	1'-5"
N/A	853+80.81	RT	9'-0"	0'-10"	0'-8"	0'-8"	2	8'-8"	9	1'-5"
N/A	853+80.79	LT	9'-0"	0'-8"	0'-6"	0'-8"	2	8'-8"	9	1'-3"
N/A	13+33.29	RT	9'-9"	0'-8"	0'-6"	0'-8"	2	9'-5"	10	1'-3"
N/A	13+33.23	LT	9'-10"	0'-10"	0'-8"	0'-8"	2	9'-6"	10	1'-5"
N/A	126+98.74	RT	9'-0"	0'-6"	0'-4"	0'-8"	2	8'-8"	9	1'-1"
N/A	126+98.7	LT	7'-0"	0'-8"	0'-6"	0'-8"	2	6'-8"	7	1'-3"
N/A	296+38.77	RT	12'-4"	1'-0"	0'-10"	0'-8"	3	12'-0"	12	1'-7"
N/A	296+38.24	LT	14'-0"	0'-8"	0'-6"	0'-8"	2	13'-8"	14	1'-3"

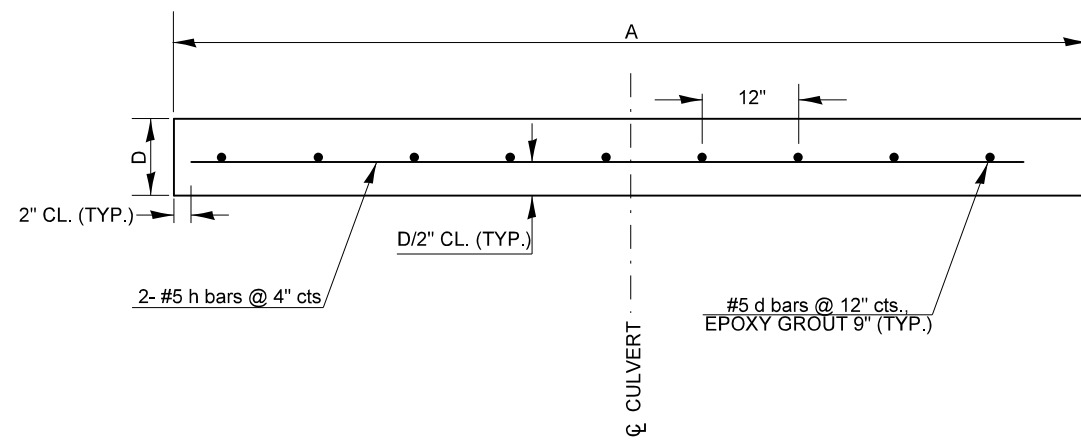
**BILL OF MATERIALS & BAR LIST**

For Information Only

Bar	No.	Size	Shape
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d	279	#5	————

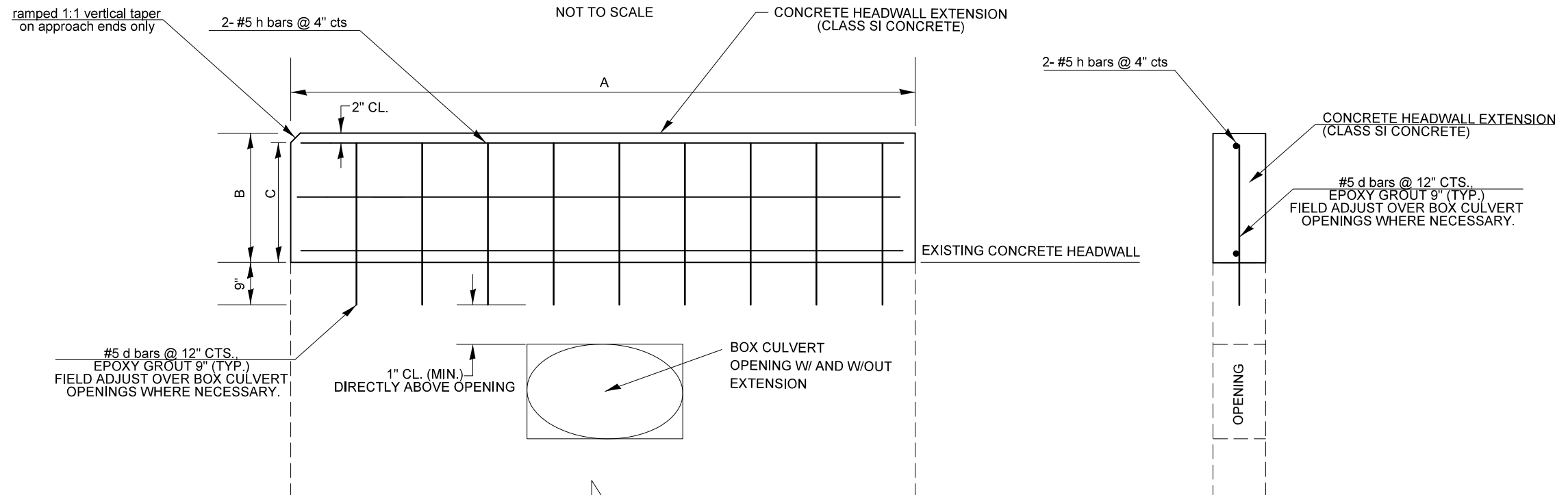
  

Item	Unit	Total
Concrete Box Culverts	Cu. Yd.	7.00
Reinforcement Bars	Pound	890.0



**PLAN**

NOT TO SCALE



**ELEVATION VIEWS**

NOT TO SCALE

**NOTES:**

- ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BOX CULVERT HEADWALL DIMENSIONS PRIOR TO COMPLETING WORK.
- THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 OR GR 60.
- PROTECTIVE COAT WILL NOT BE REQUIRED.
- THE EMBEDMENT DEPTH OF THE D BARS DIRECTLY ABOVE THE CULVERT OPENING SHALL BE REDUCED AS NECESSARY TO PREVENT DAMAGE TO THE EXISTING HEADWALL.
- INTENT: THE TOP OF THE PROPOSED HEADWALL SHALL BE LESS THAN 3" ABOVE THE ADJACENT PROPOSED AGGREGATE SHOULDER.

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 USER: PIERSONTJ  
 DATE: 3/24/2020

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HEADWALL MODIFICATION DETAIL**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	87
			CONTRACT NO. 70D74	

STR. NO.	STATION	SIDE	DIMENSIONS						NO. h BARS	h BAR LENGTH	NO. d BARS	d BAR LENGTH
			A	B	C	D	E	F				
N/A	218+15.78	LT	6'-0"	0'-10"	0'-8"	0'-8"	6'-6"	3'-6"	2	15'-8"	16	1'-5"
N/A	270+89.81	LT	4'-0"	0'-6"	0'-4"	0'-8"	5'-0"	5'-0"	2	13'-8"	14	1'-1"

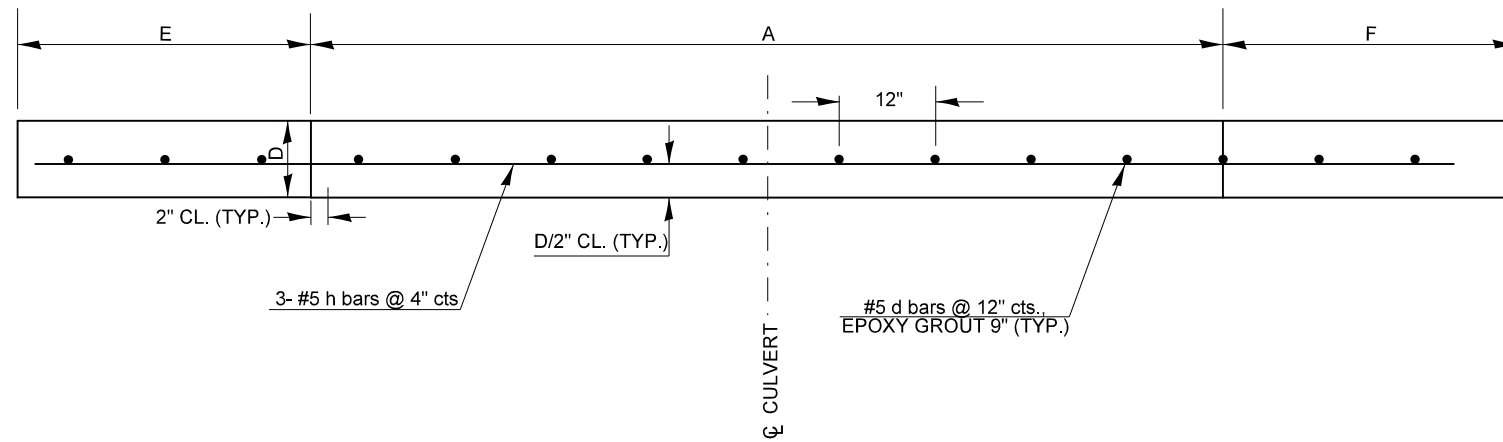
### BILL OF MATERIALS & BAR LIST

For Information Only

Bar	No.	Size	Shape
h	4	#5	—————
d	30	#5	—————

Item	Unit	Total
Concrete Box Culverts	Cu. Yd.	0.60
Reinforcement Bars	Pound	40.0

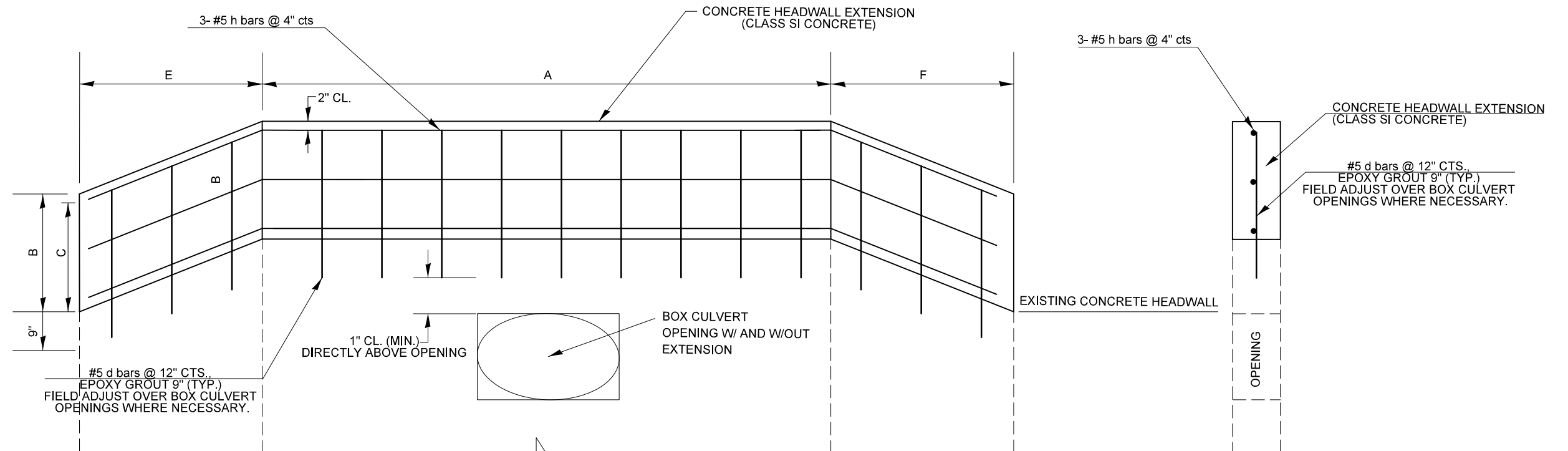


### PLAN

NOT TO SCALE

#### NOTES:

- ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BOX CULVERT HEADWALL DIMENSIONS PRIOR TO COMPLETING WORK.
- THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 OR GR 60.
- PROTECTIVE COAT WILL NOT BE REQUIRED.
- THE EMBEDMENT DEPTH OF THE D BARS DIRECTLY ABOVE THE CULVERT OPENING SHALL BE REDUCED AS NECESSARY TO PREVENT DAMAGE TO THE EXISTING HEADWALL.
- INTENT: THE TOP OF THE PROPOSED HEADWALL SHALL BE LESS THAN 3" ABOVE THE ADJACENT PROPOSED AGGREGATE SHOULDER.



### ELEVATION VIEWS

NOT TO SCALE

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	DRAWN -	REVISED -
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PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HEADWALL WITH WINGWALLS  
MODIFICATION DETAILS

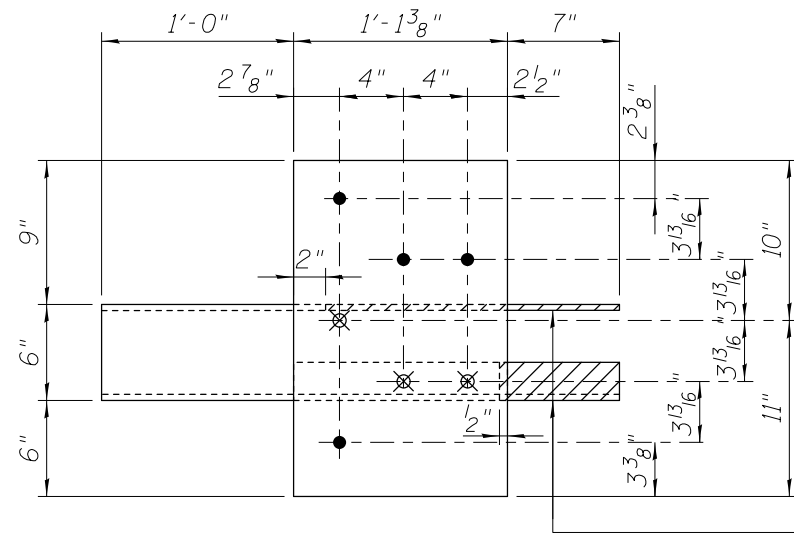
SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	88

CONTRACT NO. 70D74



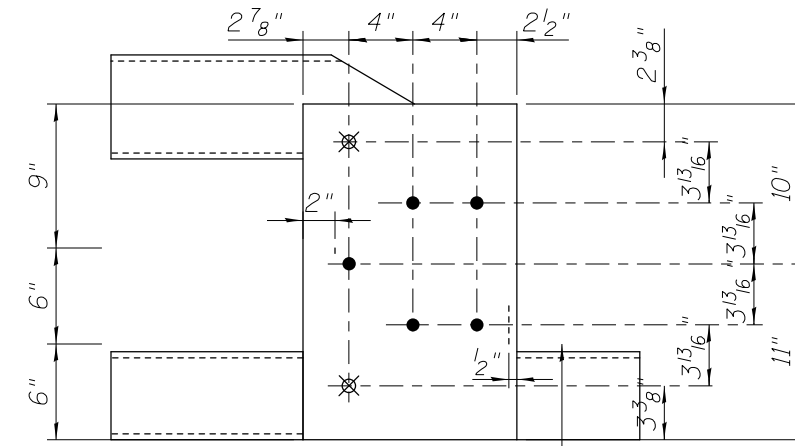
**OPTION 1**



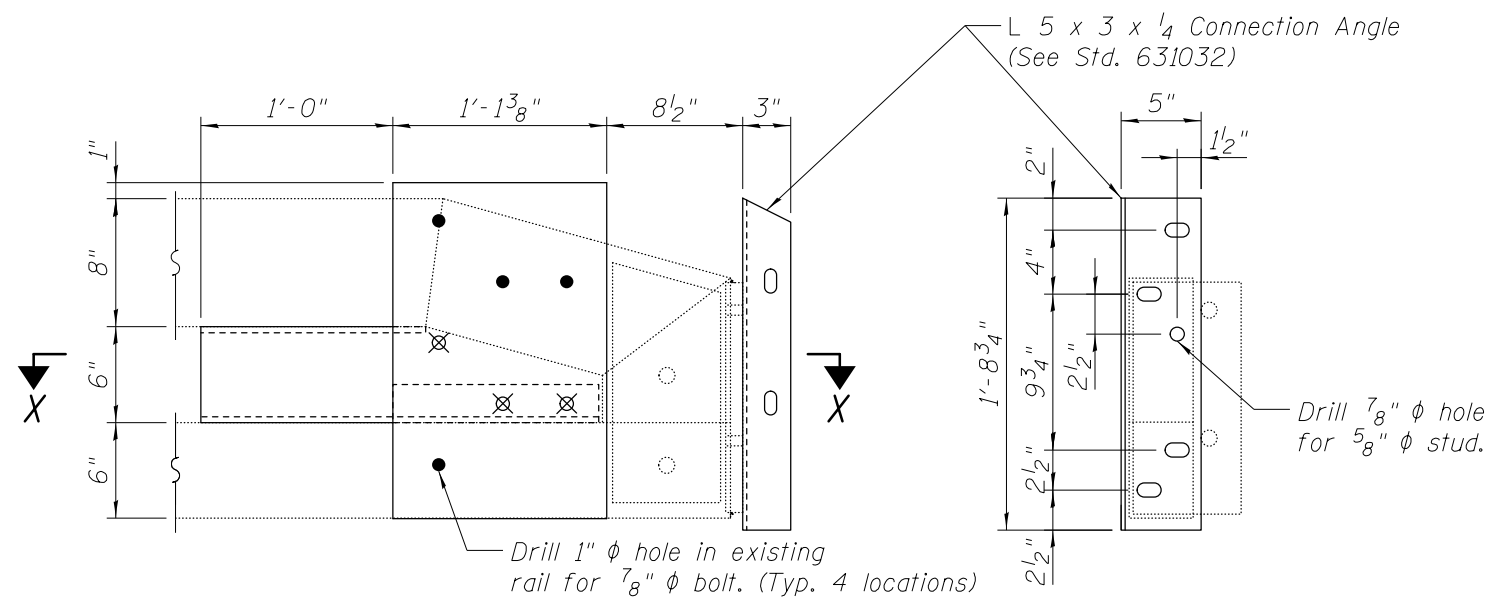
**GUARDRAIL CONNECTION PLATE ASSEMBLY**  
(Modified from Std. 631032)

Hatched portions of 3/8" Plate and L 4 x 4 x 3/8 shall be removed or omitted. If removed after galvanizing, the exposed bare metal shall be coated with an approved zinc rich paint.

**OPTION 2**



**GUARDRAIL CONNECTION PLATE ASSEMBLY**  
(Modified from Std. 631032)

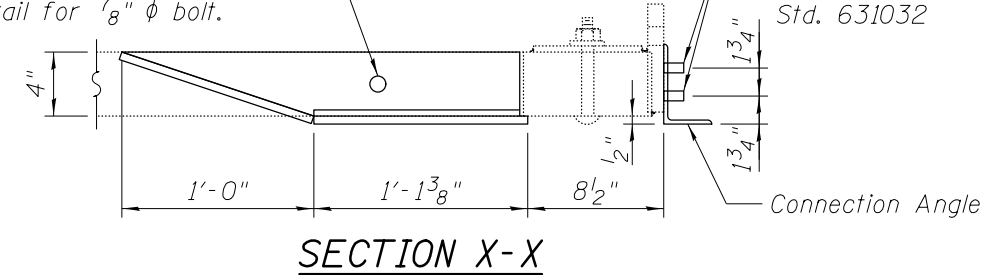


**END OF RAIL DETAILS**  
(Typical at 2 corners of bridge)

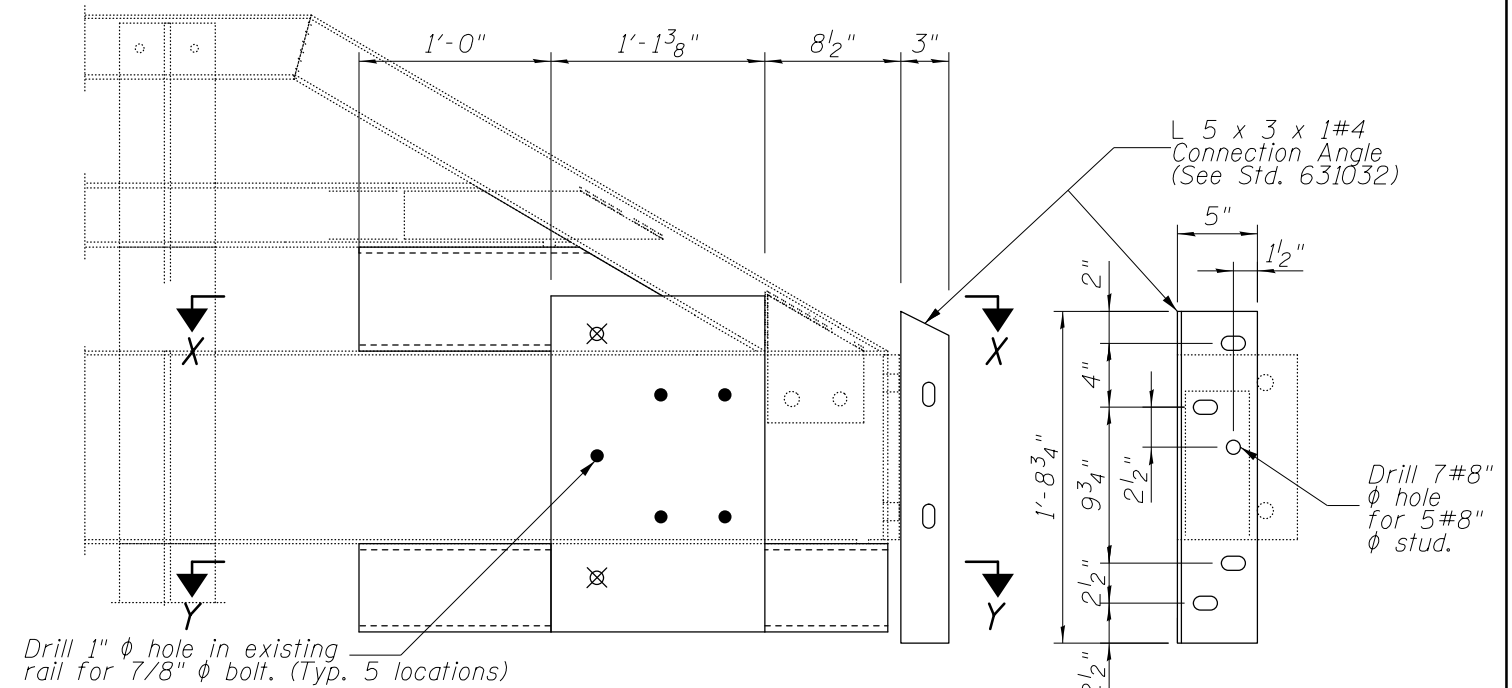
**END VIEW**

Drill 1"  $\phi$  hole in existing rail for 7/8"  $\phi$  bolt.

4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



**SECTION X-X**



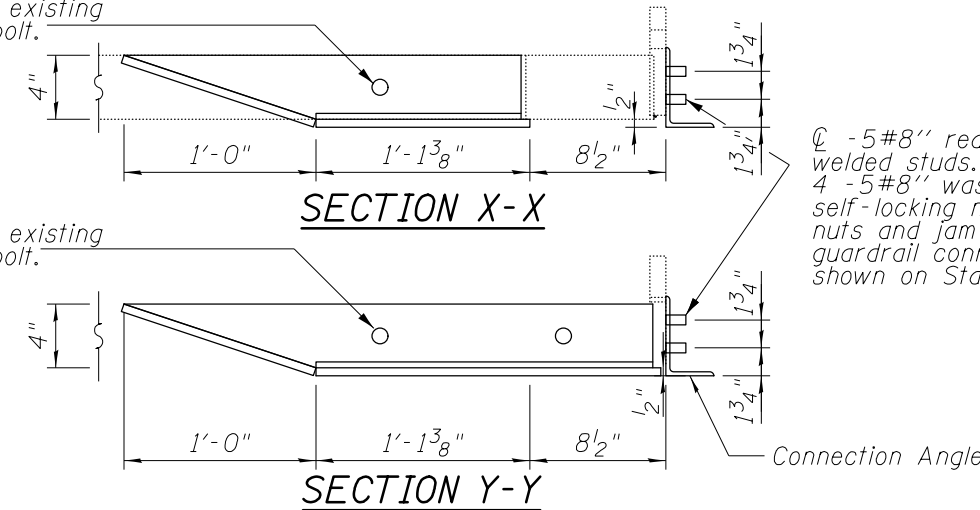
**END OF RAIL DETAILS**  
(Typical at 2 corners of bridge)

**END VIEW**

Drill 1"  $\phi$  hole in existing rail for 7/8"  $\phi$  bolt.

4 - 5#8" reduced base welded studs. Provide 4 - 5#8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032

Drill 1"  $\phi$  hole in existing rail for 7/8"  $\phi$  bolt.



**SECTION X-X**

**SECTION Y-Y**

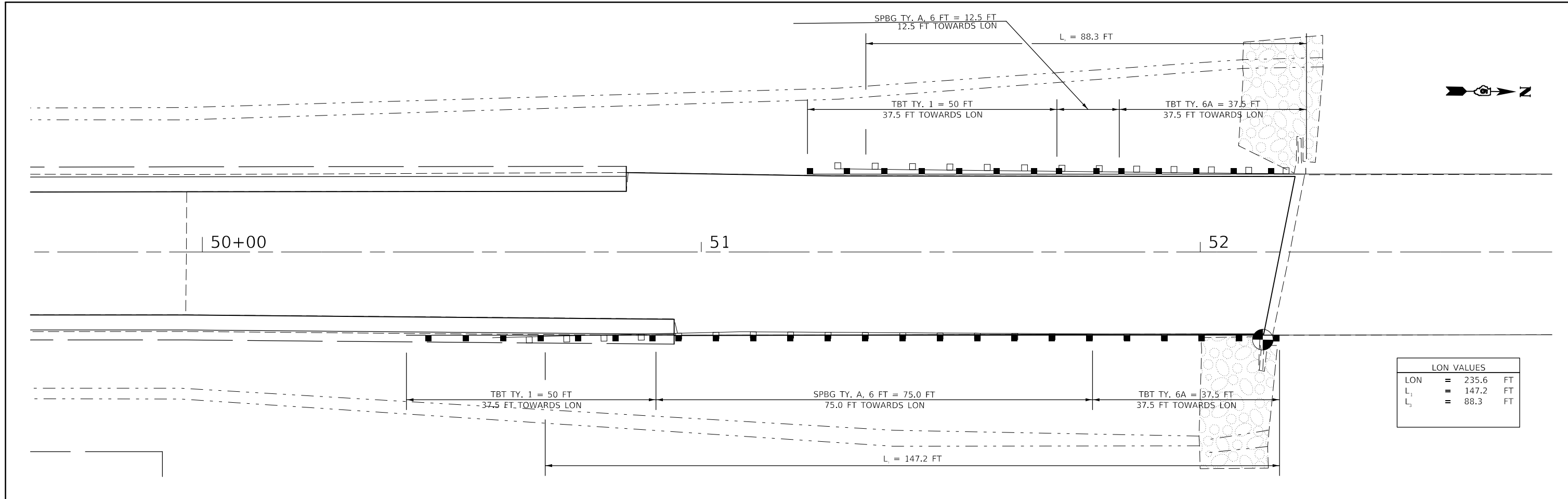
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC BARRIER TERMINAL TYPE 6A  
(MODIFIED) MOUNTING DETAILS

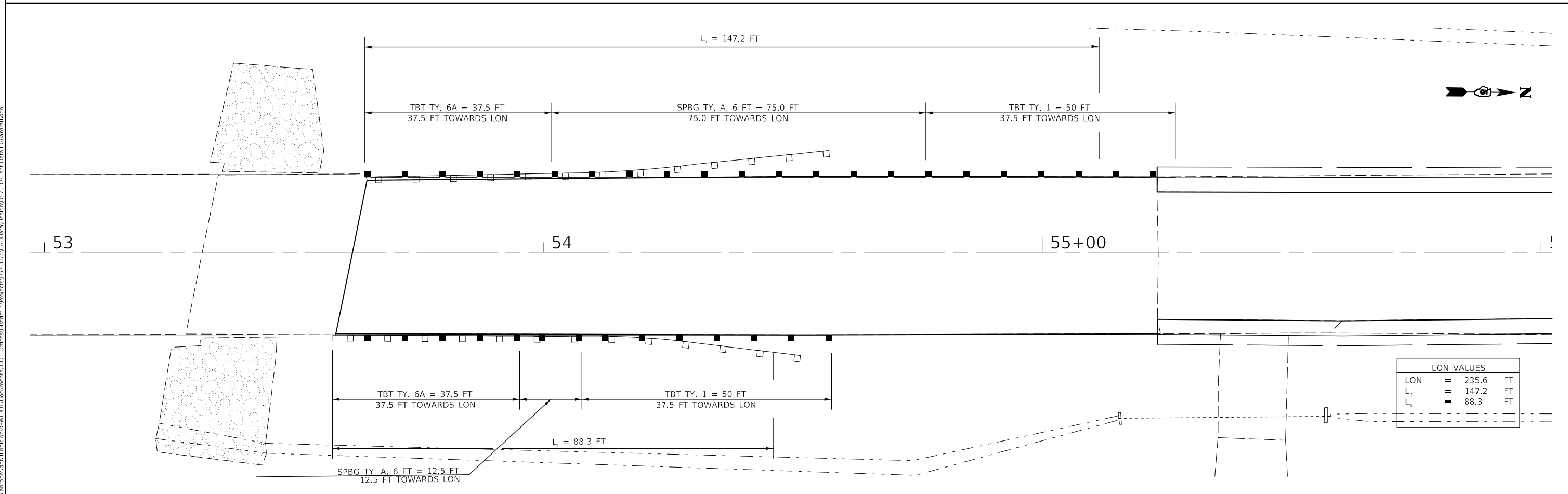
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	89
CONTRACT NO. 70D56				

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

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LON VALUES	
LON	= 235.6 FT
L <sub>1</sub>	= 147.2 FT
L <sub>2</sub>	= 88.3 FT



LON VALUES	
LON	= 235.6 FT
L <sub>1</sub>	= 147.2 FT
L <sub>2</sub>	= 88.3 FT

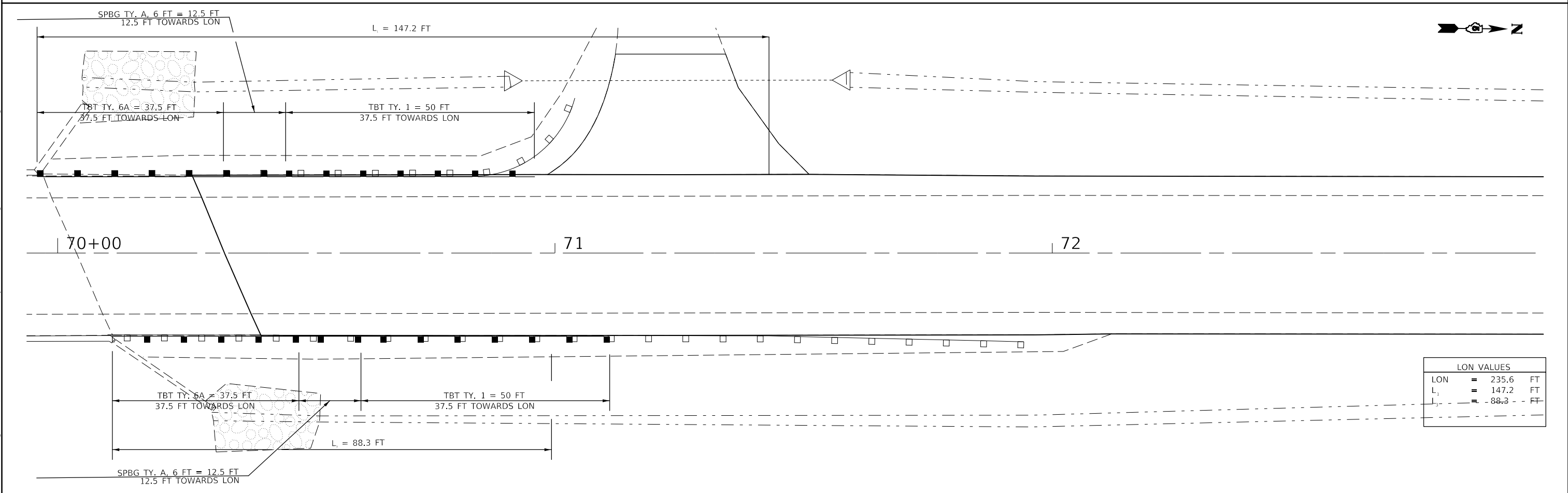
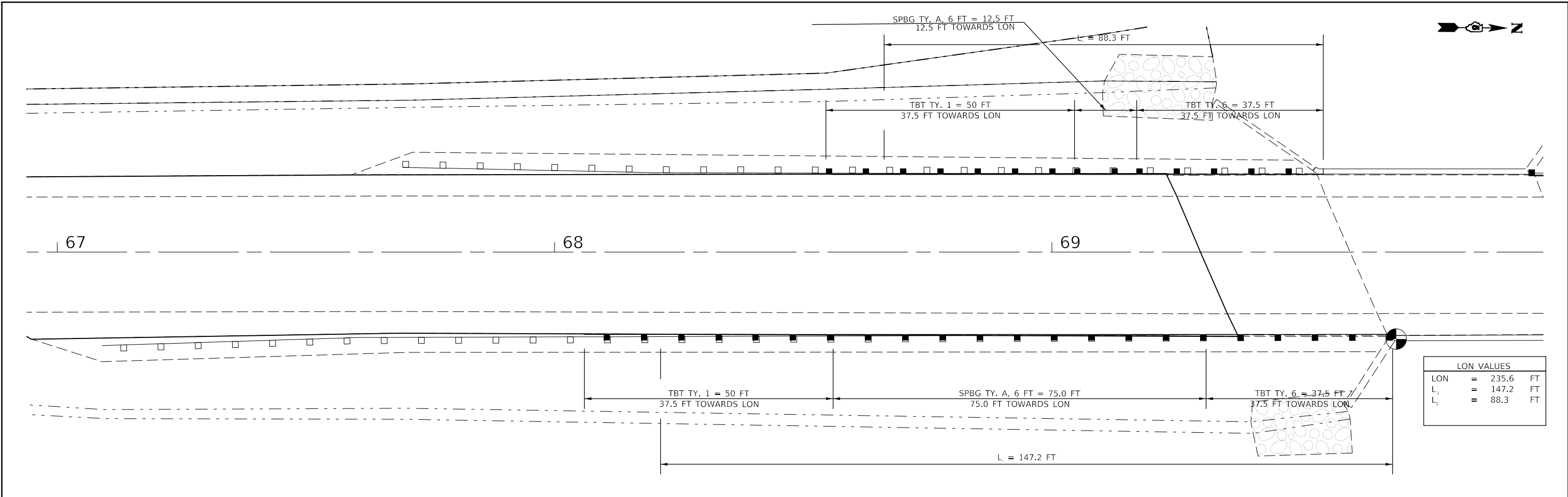
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PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

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

<b>GUARDRAIL DETAIL</b>	
<b>S.N. 023-0018</b>	
SCALE: 1" = 10'	SHEET 1 OF 5 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	90
			CONTRACT NO. 70D74	
		ILLINOIS	FED. AID PROJECT	



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 DATE: \\DATE

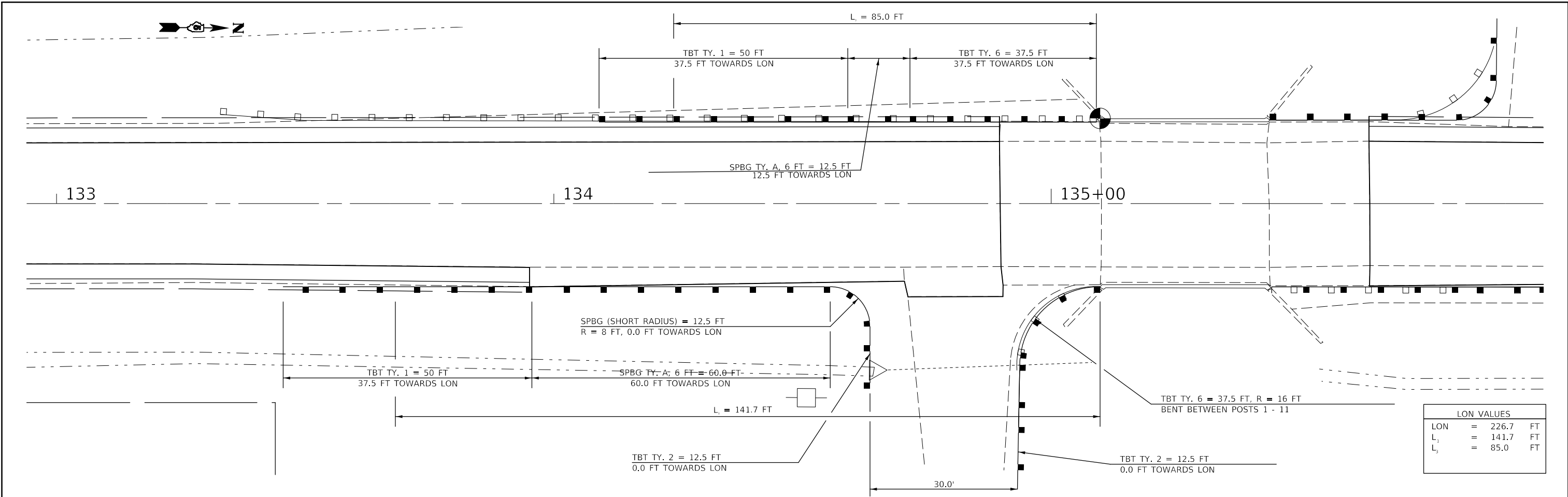
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	DATE -	REVISED -

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

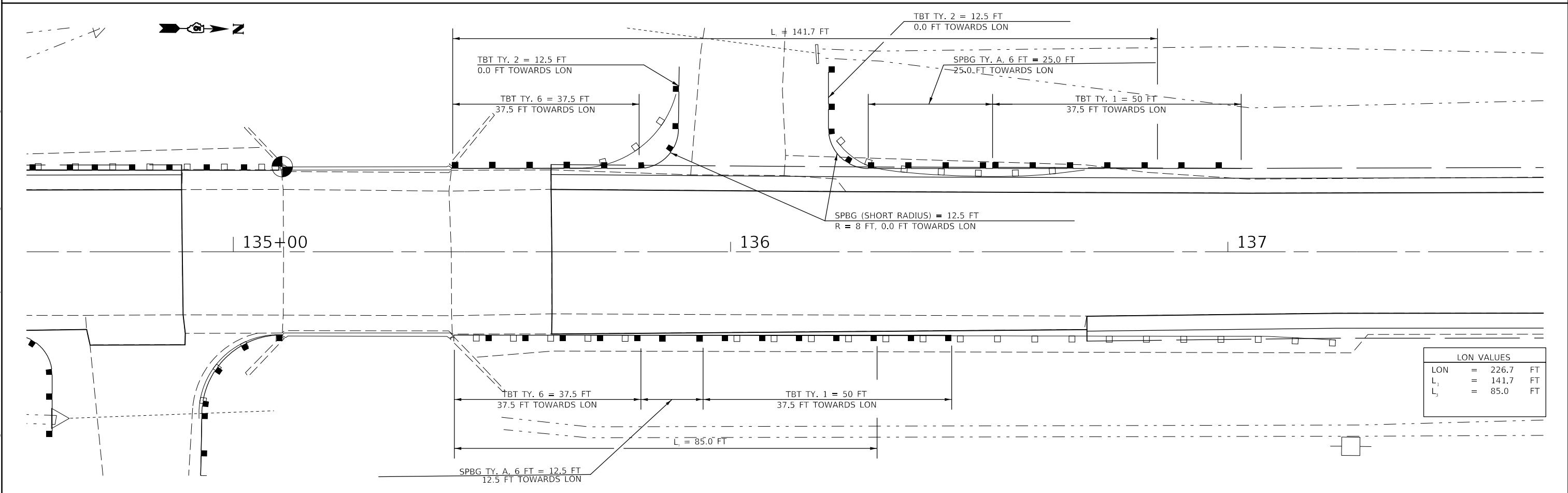
**GUARDRAIL DETAIL**  
**S.N. 023-2014**

SCALE: 1" = 10'    SHEET 2    OF 5    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	91
CONTRACT NO. 70D74				
ILLINOIS FED. AID PROJECT				



LON VALUES	
LON	= 226.7 FT
L <sub>1</sub>	= 141.7 FT
L <sub>2</sub>	= 85.0 FT



LON VALUES	
LON	= 226.7 FT
L <sub>1</sub>	= 141.7 FT
L <sub>2</sub>	= 85.0 FT

MODEL: \\MODELNAME  
 FILE: \\NAME; PROJECT: \\PROJECTNAME; DRAWING: \\DRAWINGNAME; SHEET: \\SHEETNO.; DATE: \\DATE

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PLOT DATE = 3/24/2020	CHECKED -	REVISED -
	DATE -	REVISED -

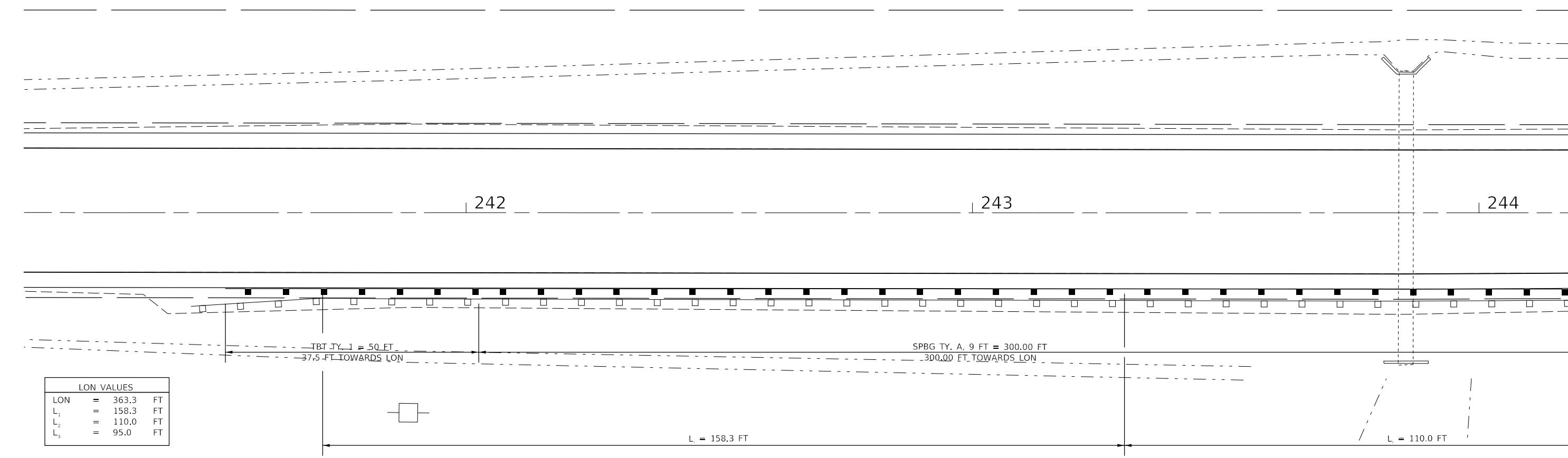
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAIL**  
**S.N. 023-2010**

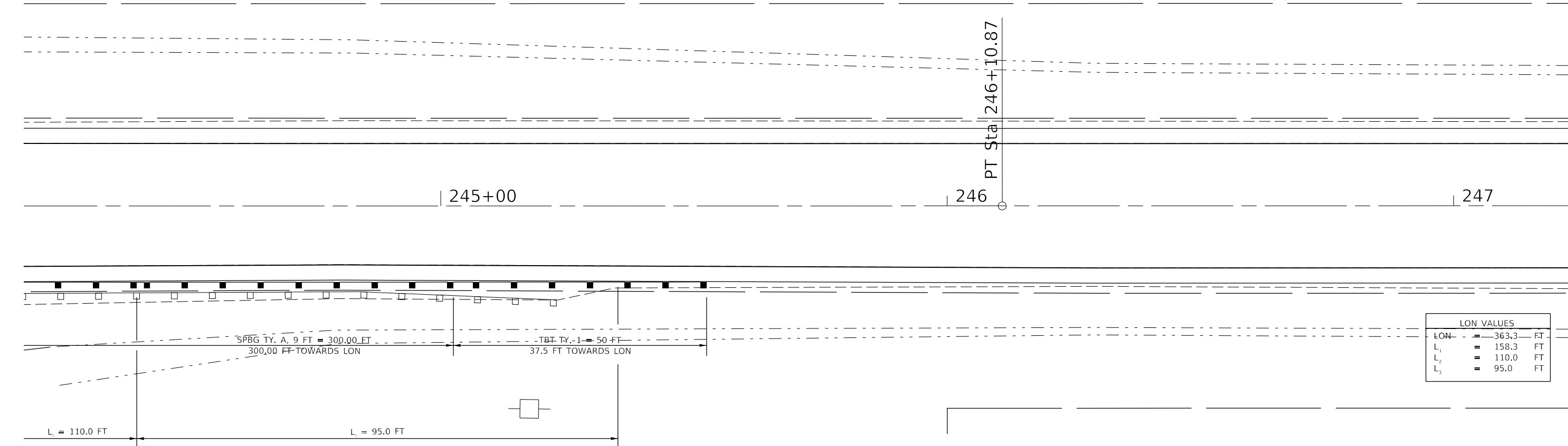
SCALE: 1" = 10'    SHEET 3    OF 5 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	92
			CONTRACT NO. 70D74	
ILLINOIS		FED. AID PROJECT		DOUGLAS & EDGAR

\*\* (116,117)RS-5, D5 HSIP 2020-1    \* DOUGLAS & EDGAR



LON VALUES	
LON	= 363.3 FT
L <sub>1</sub>	= 158.3 FT
L <sub>2</sub>	= 110.0 FT
L <sub>3</sub>	= 95.0 FT



LON VALUES	
LON	= 363.3 FT
L <sub>1</sub>	= 158.3 FT
L <sub>2</sub>	= 110.0 FT
L <sub>3</sub>	= 95.0 FT

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	DATE -	REVISED -

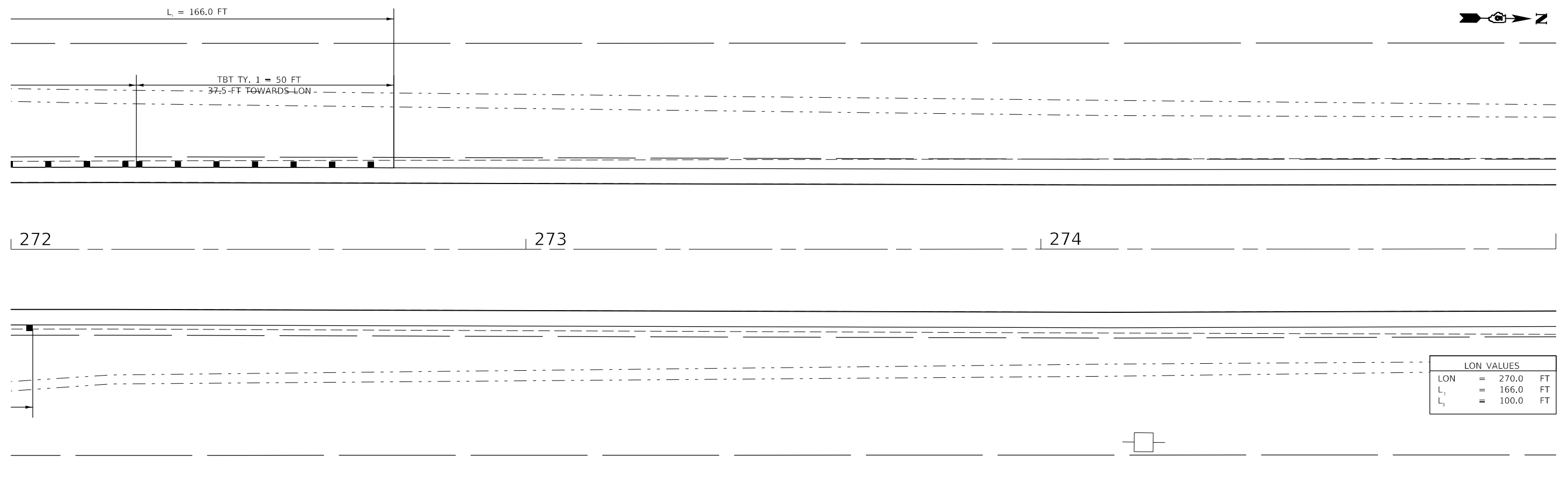
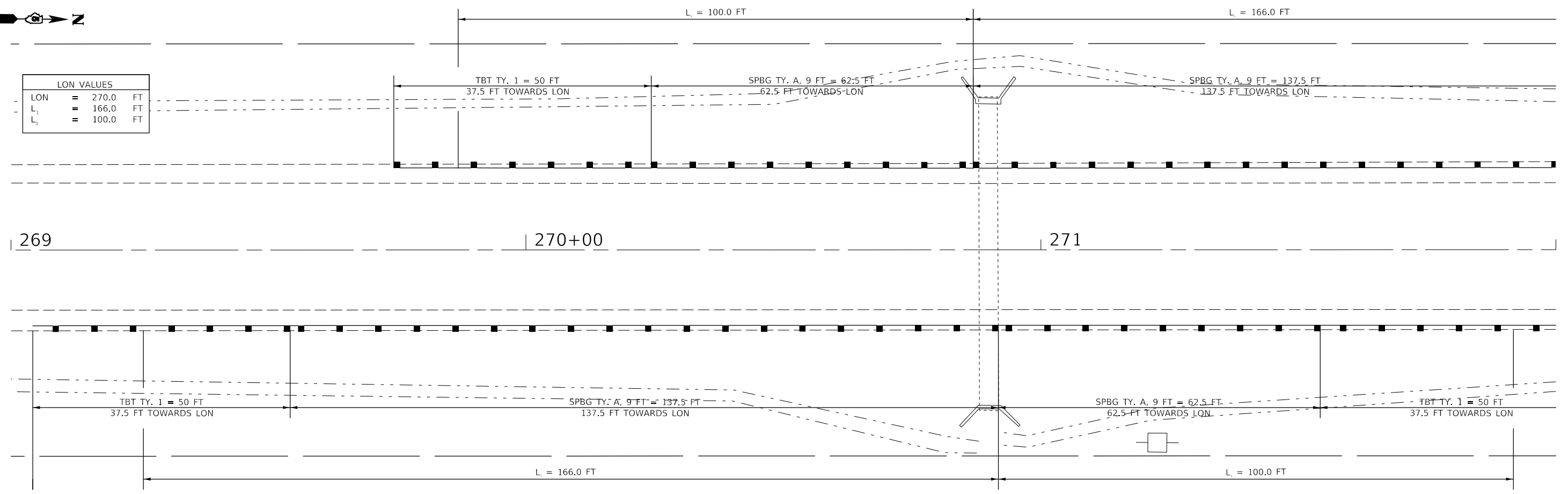
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAIL	
NON-INVENTORIED CULVERT	
SCALE: 1" = 10'	SHEET 4 OF 5 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	93
CONTRACT NO. 70D74				
ILLINOIS FED. AID PROJECT				



LON VALUES	
LON	= 270.0 FT
L <sub>1</sub>	= 166.0 FT
L <sub>2</sub>	= 100.0 FT



LON VALUES	
LON	= 270.0 FT
L <sub>1</sub>	= 166.0 FT
L <sub>2</sub>	= 100.0 FT

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PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/24/2020	CHECKED -	REVISIED -
	DATE -	REVISIED -

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

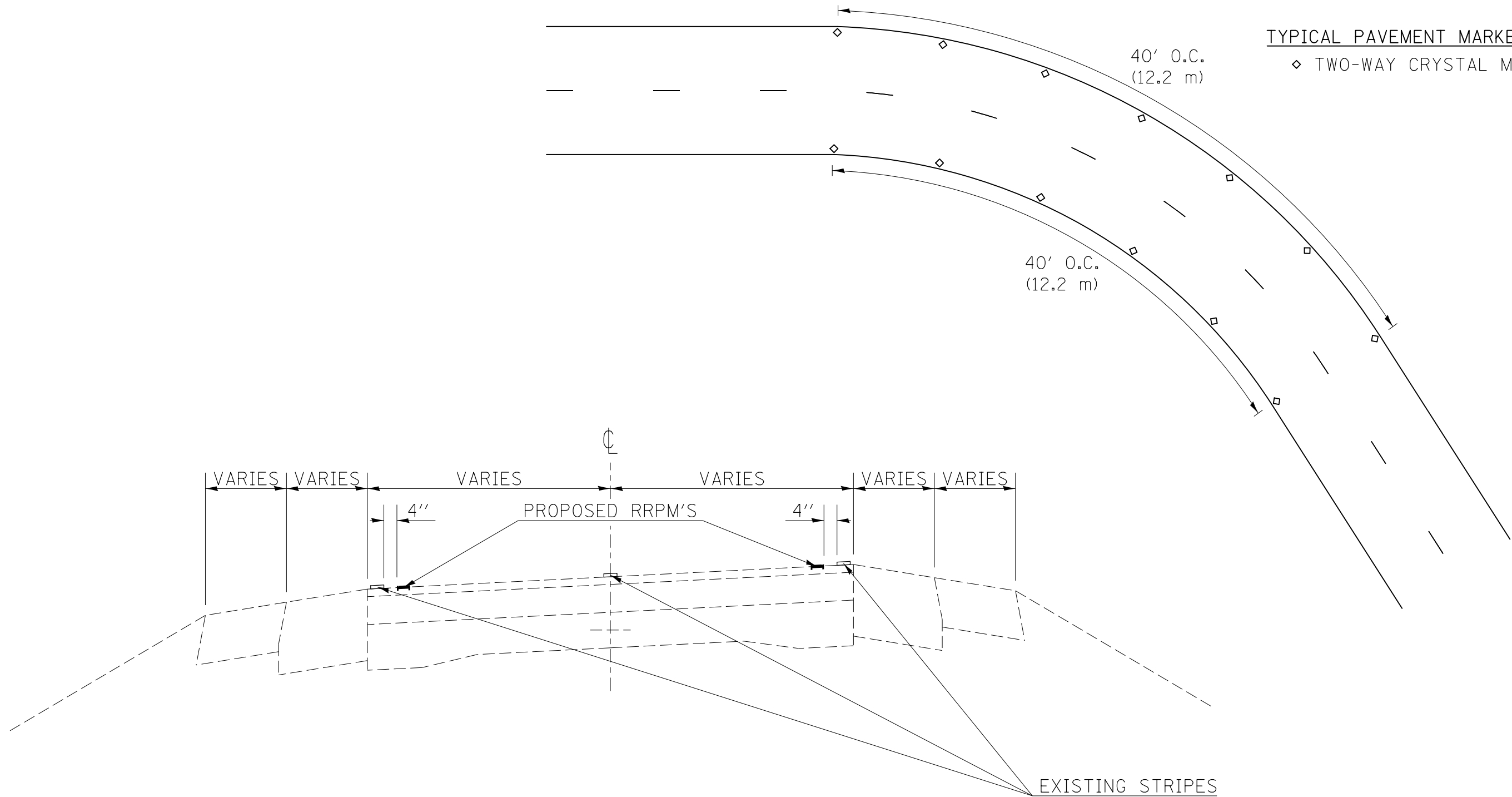
<b>GUARDRAIL DETAIL</b>			
<b>NON-INVENTORIED CULVERT</b>			
SCALE: 1" = 10'	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	94
			CONTRACT NO. 70D74	
ILLINOIS		FED. AID PROJECT		

# RAISED REFLECTIVE PAVEMENT MARKER AT HORIZONTAL CURVES DETAIL

## TYPICAL PAVEMENT MARKERS LEGEND

◊ TWO-WAY CRYSTAL MARKER



STANDARD SPACING ON CENTERLINE

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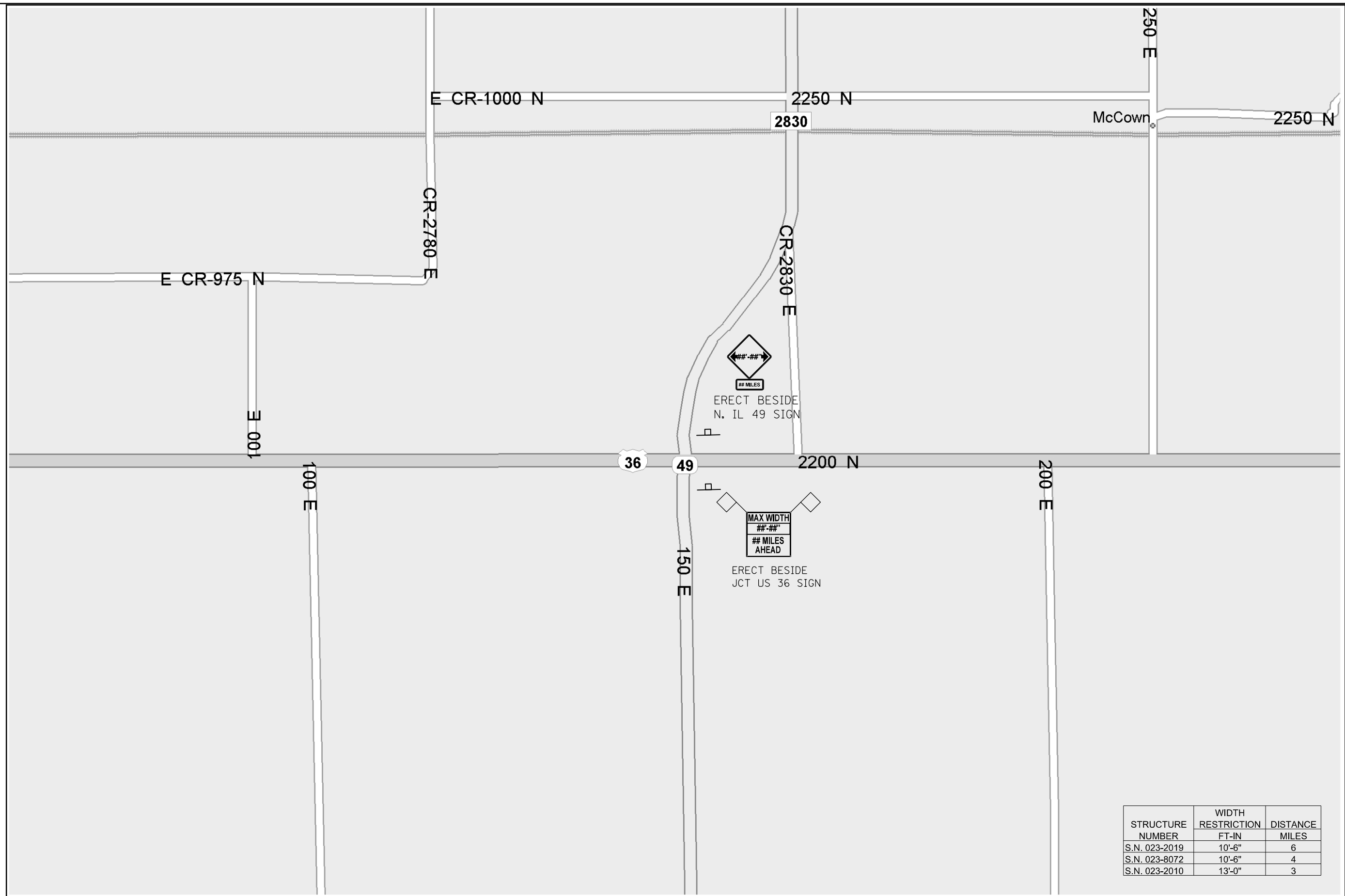
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAISED REFLECTIVE  
PAVEMENT MARKER DETAIL**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	95
			CONTRACT NO. 70D74	



STRUCTURE NUMBER	WIDTH RESTRICTION	
	FT-IN	MILES
S.N. 023-2019	10'-6"	6
S.N. 023-8072	10'-6"	4
S.N. 023-2010	13'-0"	3



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	PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION MAP DETAIL**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	96
			CONTRACT NO. 70D74	





MAX WIDTH  
##-##  
# MILES  
AHEAD  
ERECT BY STOP  
AHEAD SIGN

##-##  
# MILES  
ERECT BY SOUTH  
SIDE IL 49 SIGN

##-##  
# MILES  
ERECT BY STOP  
AHEAD SIGN

STRUCTURE NUMBER	WIDTH RESTRICTION	
	FT-IN	DISTANCE MILES
S.N. 023-2019	10'-6"	17
S.N. 023-8072	10'-6"	20
S.N. 023-2010	13'-0"	21

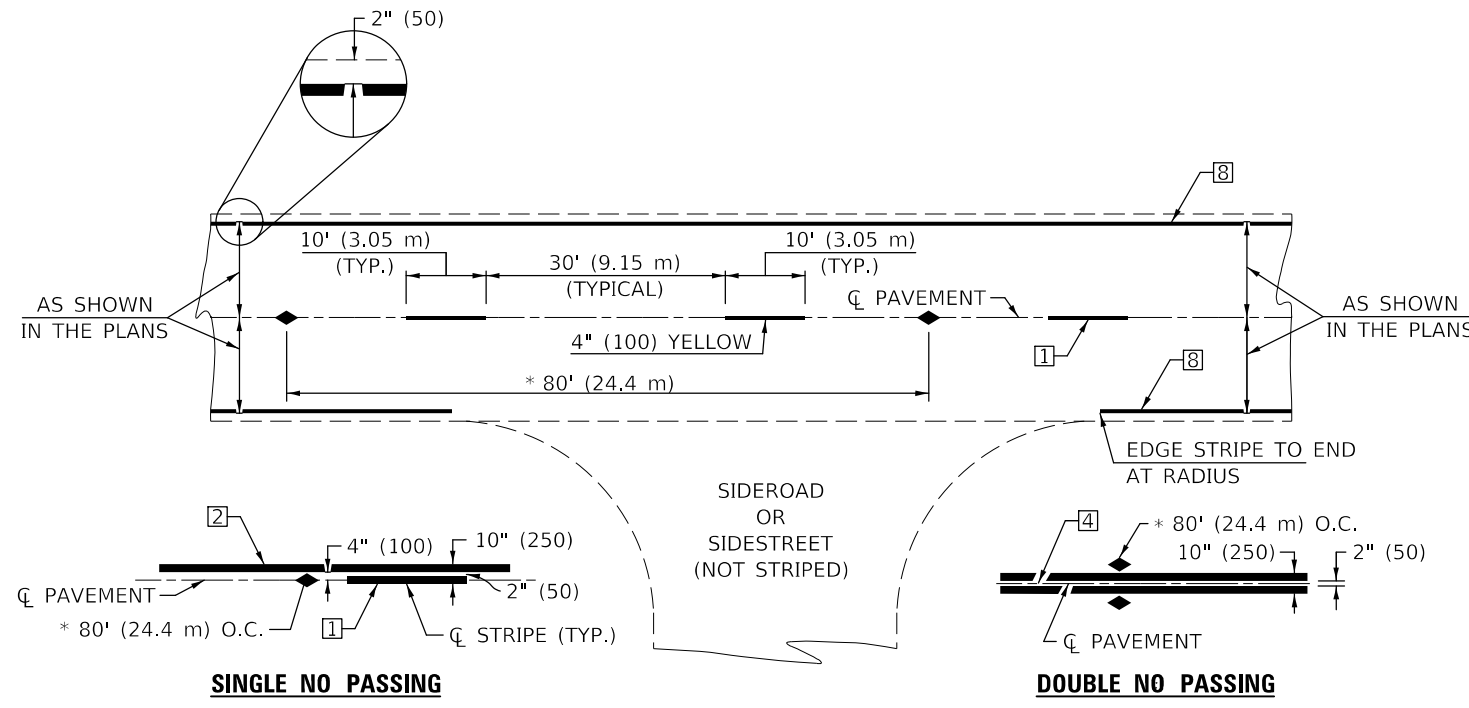


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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION MAP DETAIL  
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	*	224	97
CONTRACT NO. 70D74			ILLINOIS FED. AID PROJECT	



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

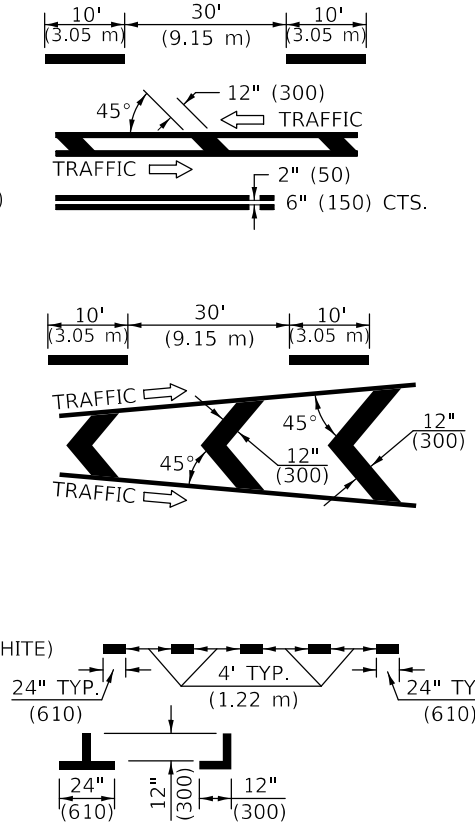
**TWO LANE/TWO WAY**

**TYPICAL PAVEMENT MARKING LEGEND**

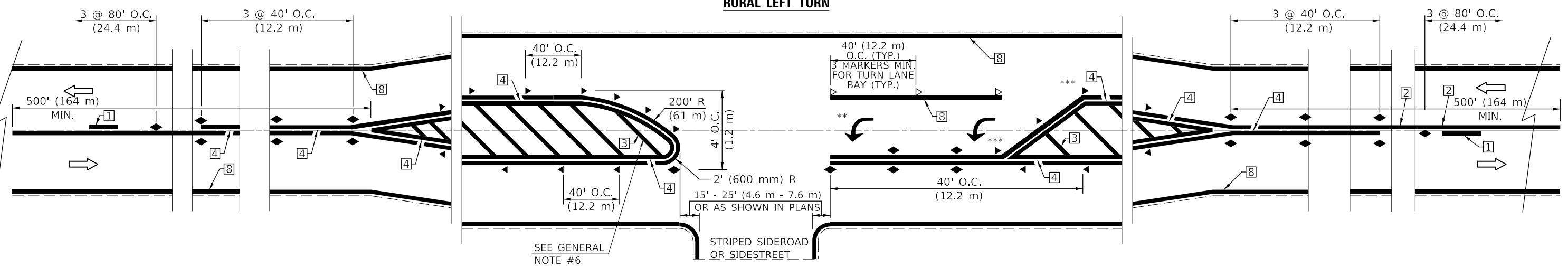
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



**RURAL LEFT TURN**



\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.  
 \*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

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

MODEL: I:\MODEL\MARF...  
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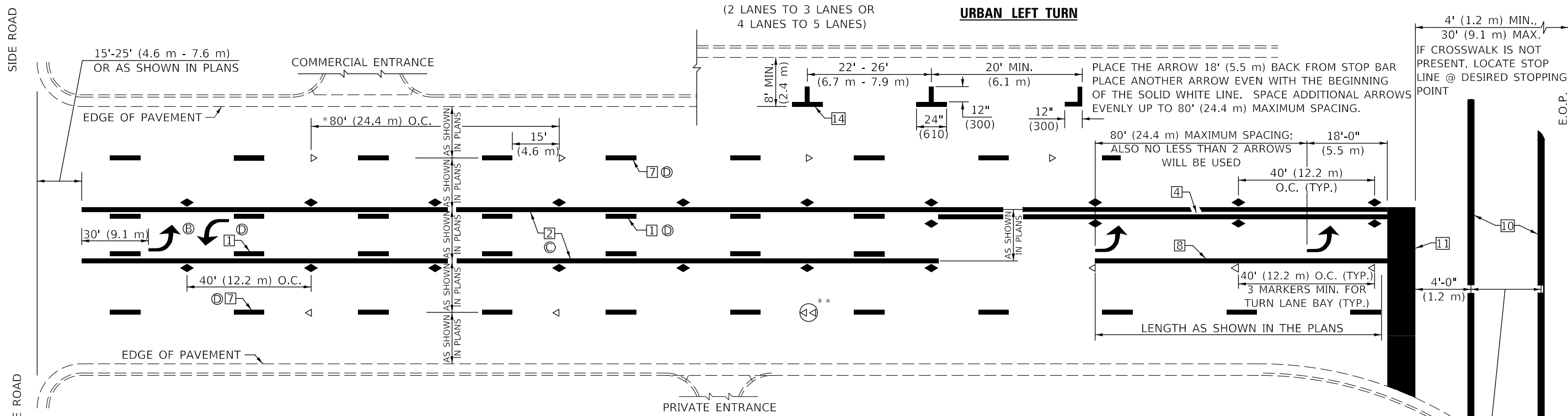
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

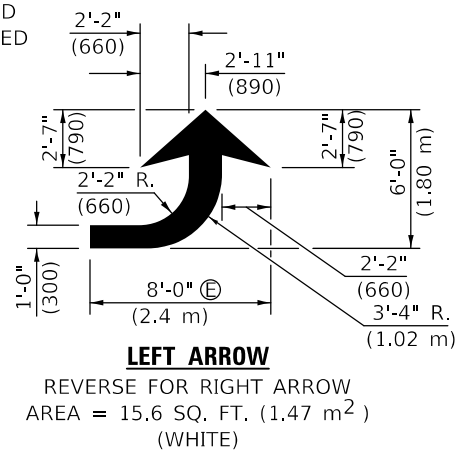
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836	**	-	224	98
CONTRACT NO. 70D74				



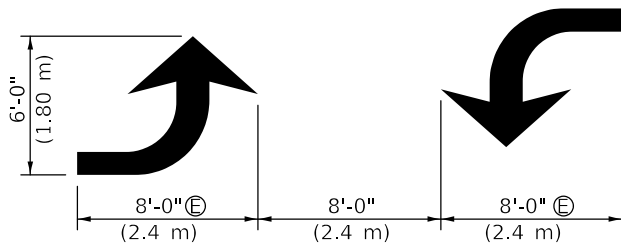
\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.  
 \*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

**GENERAL NOTES:**

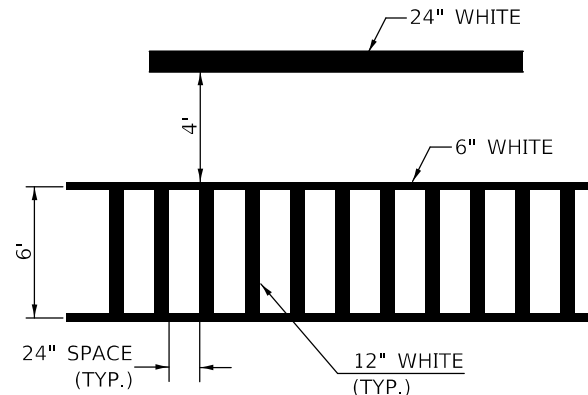
- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- ⓒ THE SOLID YELLOW PAVEMENT MARKINGS ② SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- ⓓ THE SKIP-DASH PAVEMENT MARKINGS ① OR ⑦ SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



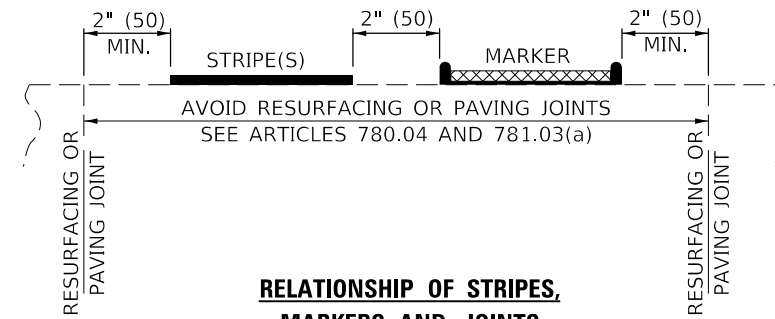
**TYPICAL DOUBLE TURN ARROWS (WHITE)**



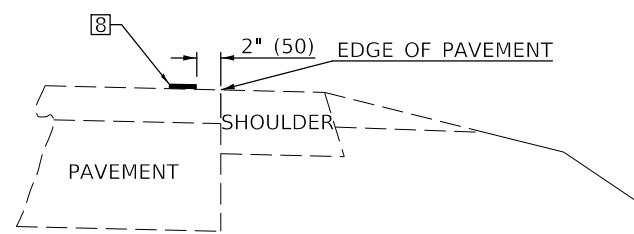
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04**

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

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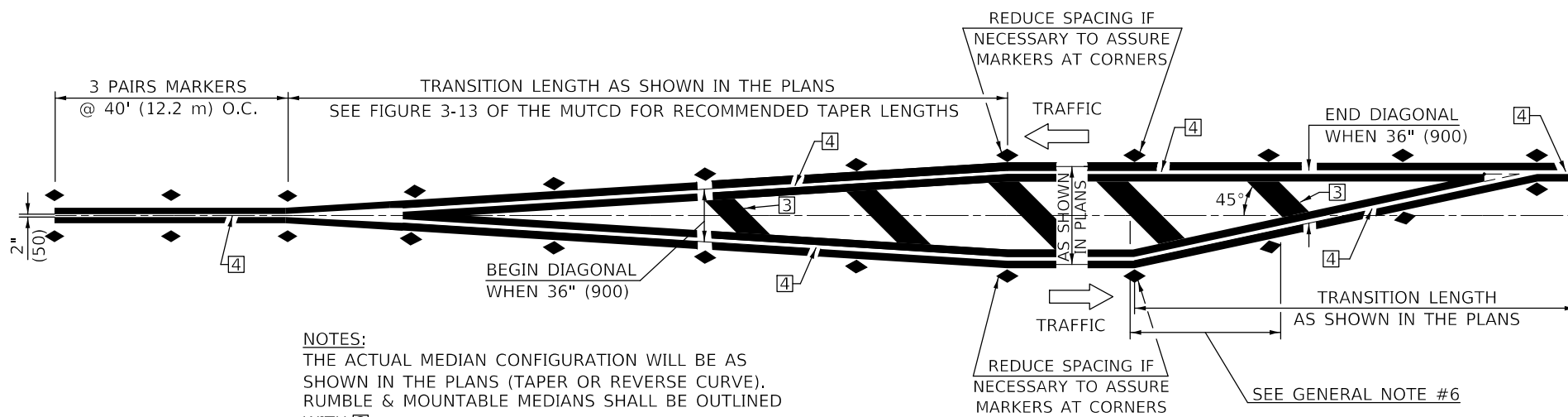
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	99
CONTRACT NO. 70D74				
ILLINOIS FED. AID PROJECT				

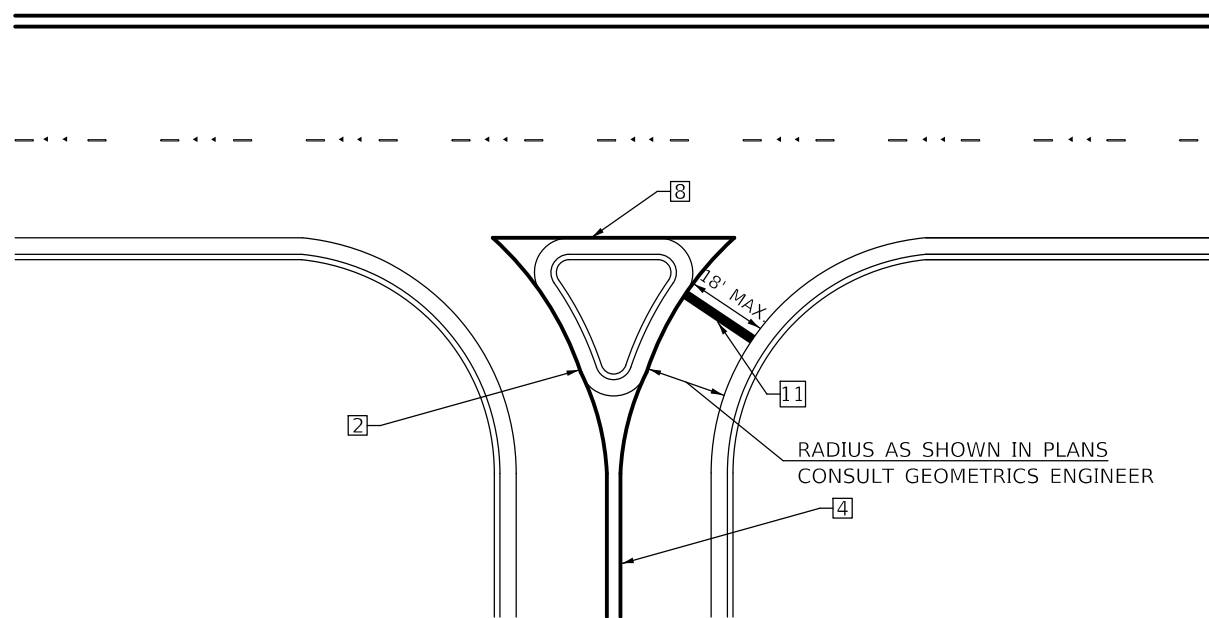


NOTES:  
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

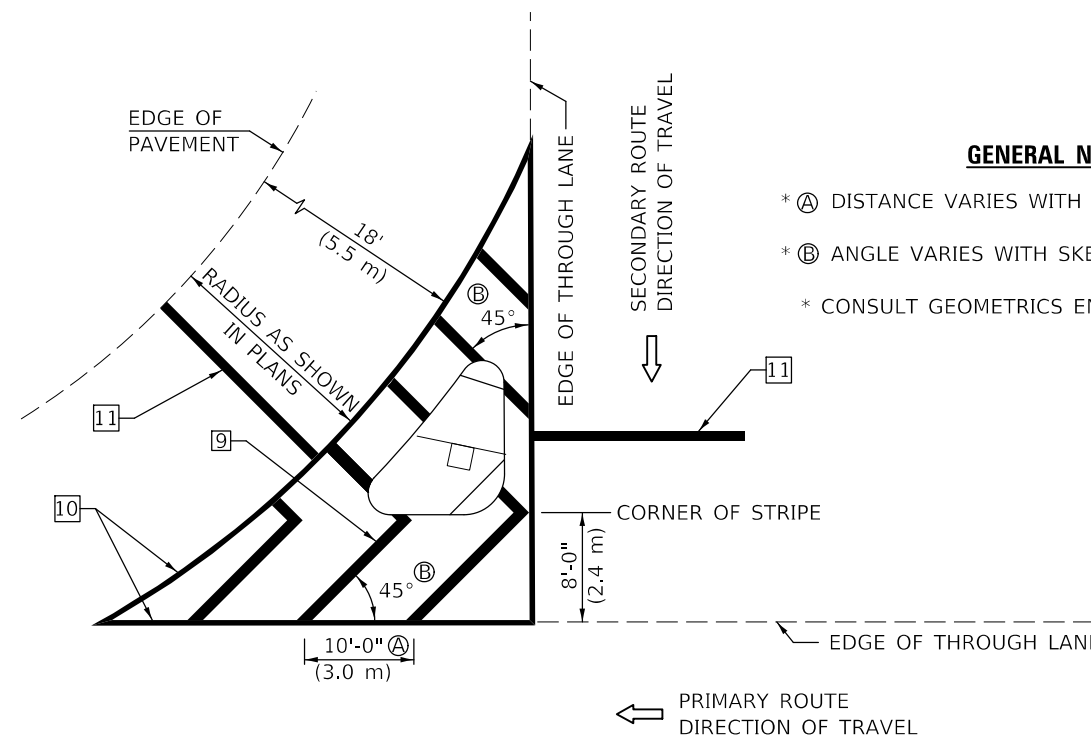
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. 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**



**GENERAL NOTES**

- \* A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \* B ANGLE VARIES WITH SKEW OF INTERSECTION.
- \* CONSULT GEOMETRICS ENGINEER

**ISLAND**

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

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PLOT DATE = 3/24/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
836	**	-	224	100
			CONTRACT NO. 70D74	

ILLINOIS FED. AID PROJECT

\*(116,117)RS-5, D5 HSIP 2020-1 DOUGLAS & EDGAR