

SEE SHEET 2 FOR INDEX OF SHEETS AND LIST OF ILLINOIS DOT HIGHWAY STANDARDS

06-17-2022 LETTING ITEM 129

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED HIGHWAY SAFETY IMPROVEMENT PROJECT

VARIOUS ROUTES
SECTION 18-00136-00-GR
PROJECT NO. IHQY(375)
JASPER COUNTY
C-97-092-18

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	1
FEDERAL AID PROJECT	ILLINOIS	CONTRACT NO. 95917		

UTILITY CONTACTS:

UTILITY TYPE:

WATER
E J WATER COOPERATIVE, INC.
ATT: LEE BECKMAN
PHONE: 217-347-7282

UTILITY TYPE:

TELEPHONE/INTERNET
FRONTIER COMMUNICATIONS
ATT: KALIN HINSHAW
PHONE: 815-895-1515

UTILITY TYPE:

GAS
ILLINOIS GAS CO.
ATT: DARIN HOUGHIN
PHONE: 618-395-8588

UTILITY TYPE:

TELEPHONE/TELEVISION/INTERNET
WABASH COMMUNICATIONS
ATT: STEVE ROSSELTON
PHONE: 618-665-3311,
618-843-8748

UTILITY TYPE:

GAS/ELECTRIC
AMEREN CIPS - (SOUTH)
ATT: NATHAN HILL
PHONE: 618-301-5327

UTILITY TYPE:

VARIOUS
STE. MARIE, VILLAGE OF
ATT: KEVIN OCHS
PHONE: 618-562-3641 HOME

UTILITY TYPE:

GAS/OIL
CITATION OIL & GAS CORP.
ATT: STEVE GLASSFORD
PHONE: 618-838-4895 CELL

UTILITY TYPE:

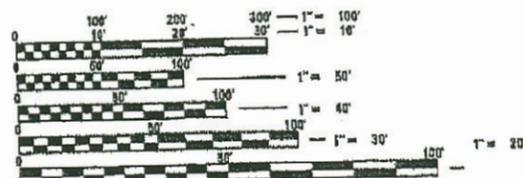
GAS/OIL
MARATHON - MARTINSVILLE
ATT: DEREK SHEETS
PHONE: 618-554-0208 CELL

UTILITY TYPE:

ELECTRIC
NORRIS ELECTRIC COOP
ATT: TIM HUBER
PHONE: 618-783-8765,
618-553-8426 CELL

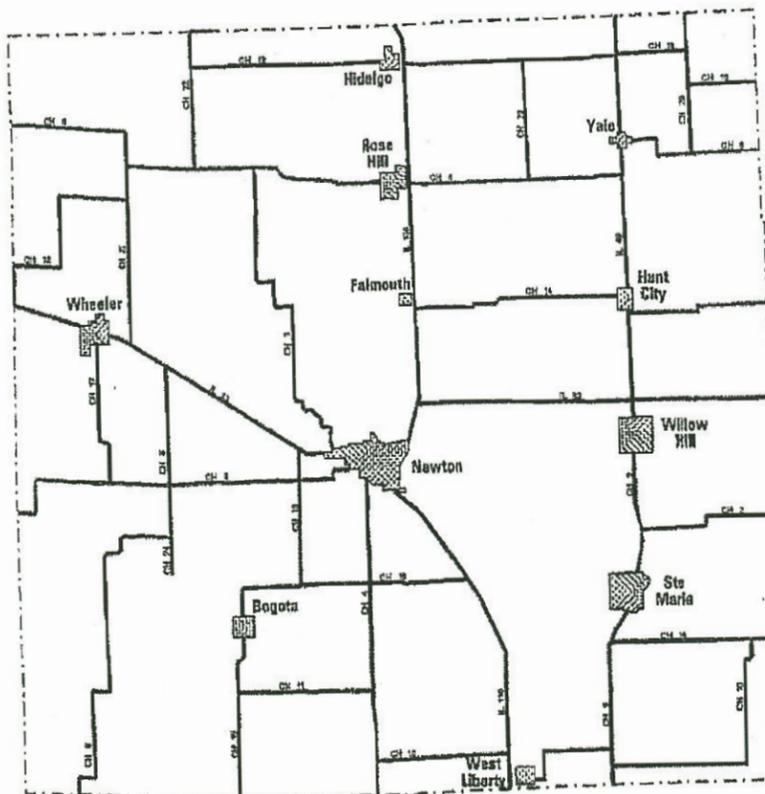
UTILITY TYPE:

GAS/OIL
MARATHON - STOY
ATT: SARA GREER
PHONE: 317-914-3342,
618-592-3611 x225



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



LAYOUT
JASPER COUNTY
COUNTY WIDE
(NOT TO SCALE)

(SEE SHEETS 10 AND 11 FOR LOCATIONS)



LOCATION OF SECTION INDICATED THUS: [Hatched Box]



Kimberly S. Clemens 3/22/22
ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/23)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED March 23, 2022
[Signature]
JASPER COUNTY ENGINEER

PASSED 04/13, 2022
[Signature]
DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW 04/13, 2022
[Signature]
REGION FIVE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL CROSS SECTIONS
5-8	SCHEDULES OF QUANTITIES
9-10	LOCATION MAPS
11-34	PLAN SHEETS
35	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
36	STEEL RAILING, TYPE SM

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY FROM EDGE OF PAVEMENT
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A

GENERAL NOTES

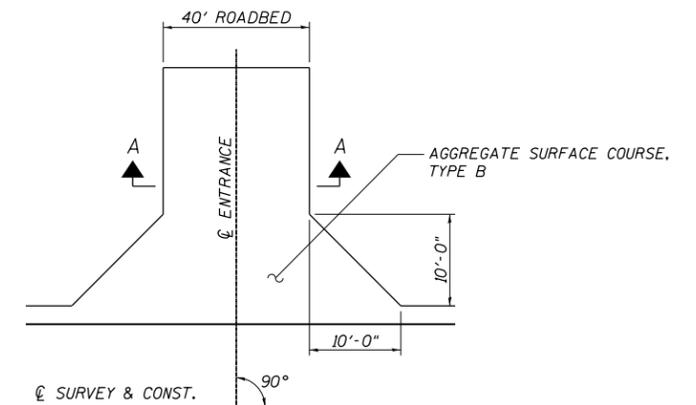
- NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ARTICLE 701.20 OF THE STANDARD SPECIFICATIONS DISCUSSES AN ADJUSTED UNIT PRICE. NO ADJUSTMENTS SHALL BE MADE TO THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS FOR THIS CONTRACT.
- THE CONTRACTOR IS ADVISED THAT THE GUARDRAIL AND TERMINAL PAY ITEMS INCLUDED IN THE PLANS WILL BE USED TO REPLACE STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS FOR EITHER CURRENT MIDWEST STYLES OR STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS INSTALLED PRIOR TO JANUARY 1, 2007. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST STANDARDS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE REVISION NUMBER SHOWN IN THE LIST OF ILLINOIS DOT HIGHWAY STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- GUARDRAIL POSTS THAT NEED TO BE DRIVEN THROUGH EXISTING HOT-MIX ASPHALT SHOULDERS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF STEEL PLATE BEAM GUARDRAIL.
- REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS SHALL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- FURNISHED EXCAVATION, AS SHOWN, IS FOR CONSTRUCTION OF THE PROPOSED SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS AND FOR SHOULDER WIDENING ALONG STEEL PLATE BEAM GUARDRAIL AS NEEDED. SHOULDER WIDENING AT TYPE 1 (SPECIAL) TERMINALS SHALL BE AS SHOWN ON STANDARD 630301. SHOULDER WIDENING AT STEEL PLATE BEAM GUARDRAIL TYPE A, SIX FOOT POSTS WILL BE TWO FEET BEHIND THE POST AS SHOWN ON STANDARD 630001. SHOULDER WIDENING AT STEEL PLATE BEAM GUARDRAIL TYPE A, NINE FOOT POSTS WILL BE TO THE FACE OF THE POST AS SHOWN ON STANDARD 630001. QUANTITIES SHOWN ARE APPROXIMATE.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER. THE TOTAL DISTURBANCE AREA IS NOT CONTIGUOUS AND IS DISTRIBUTED THROUGHOUT THE INDIVIDUAL LOCATIONS AS SHOWN IN THE PLANS.
- SEEDING OPERATION SHALL BE COMPLETED WITHIN 3 DAYS OF COMPLETING GUARDRAIL WORK.
- ALL STEEL PLATE BEAM GUARDRAIL RAIL ELEMENTS, POSTS AND HARDWARE THAT ARE NOT REINCORPORATED INTO THE PROJECT SHALL BE SALVAGED AND DELIVERED TO THE JASPER COUNTY HIGHWAY DEPARTMENT.

APPLICATION RATES USED IN QUANTITY CALCULATIONS

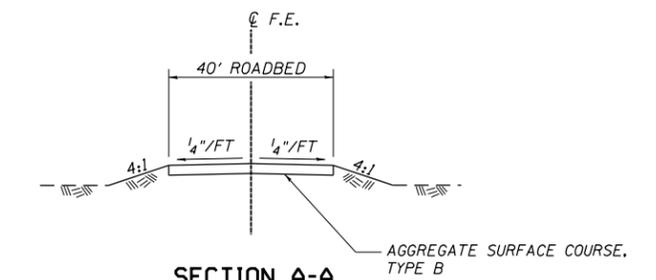
GRANULAR MATERIALS _____ 2.05 TONS/CU YD
 TEMPORARY EROSION CONTROL SEEDING _____ 100 LBS/ACRE

COMMITMENTS

NONE AT THIS TIME



ENTRANCE DETAIL
(LT STA 12+97.00)



SECTION A-A
AGGREGATE SURFACE COURSE, TYPE B

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	2
CONTRACT NO. 95917				

ILLINOIS FED. AID PROJECT

JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 2519_1-ent-gen.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 03/22/2022	REVISED -

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
Δ 20200100	EARTH EXCAVATION	CU YD	125
Δ 21400100	GRADING AND SHAPING DITCHES	FOOT	1,171
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	178
28000305	TEMPORARY DITCH CHECKS	FOOT	120
28000500	INLET AND PIPE PROTECTION	EACH	15
Δ 35101400	AGGREGATE BASE COURSE, TYPE B	TON	3,930
Δ 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	33
50901050	STEEL RAILING, TYPE SM	FOOT	130
Δ 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	362
Δ 542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	236
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	862.5
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	800.0
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	375.0
63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	200.0
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	4
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	46

Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	8
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	95
* 63200310	GUARDRAIL REMOVAL	FOOT	2,862.5
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	95
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	384
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	16
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.75
* X6300210	GUARDRAIL BLOCKS	EACH	50
* X6300130	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	FOOT	625.0
* X6320100	GUARDRAIL REMOVAL SPECIAL	FOOT	750.0
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	137.5
* X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1

* SEE SPECIAL PROVISIONS

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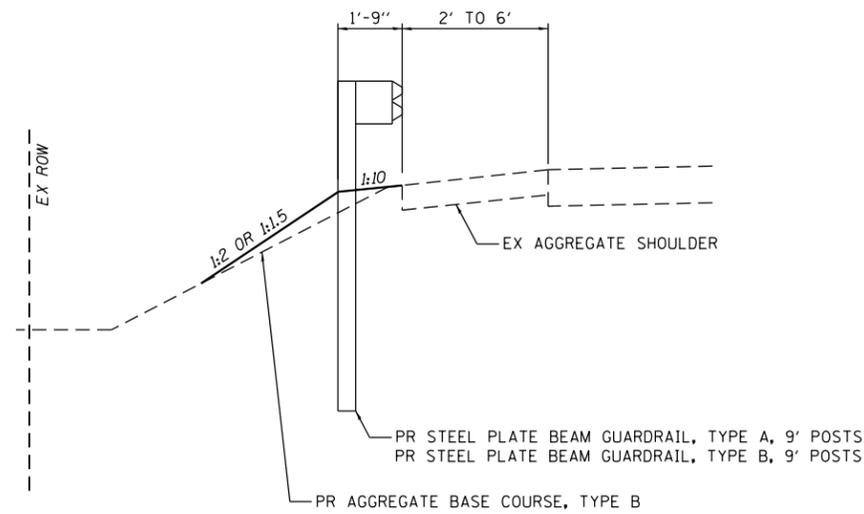
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PLOT DATE = 3/22/2022	DATE - 03/22/2022	REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

SUMMARY OF QUANTITIES

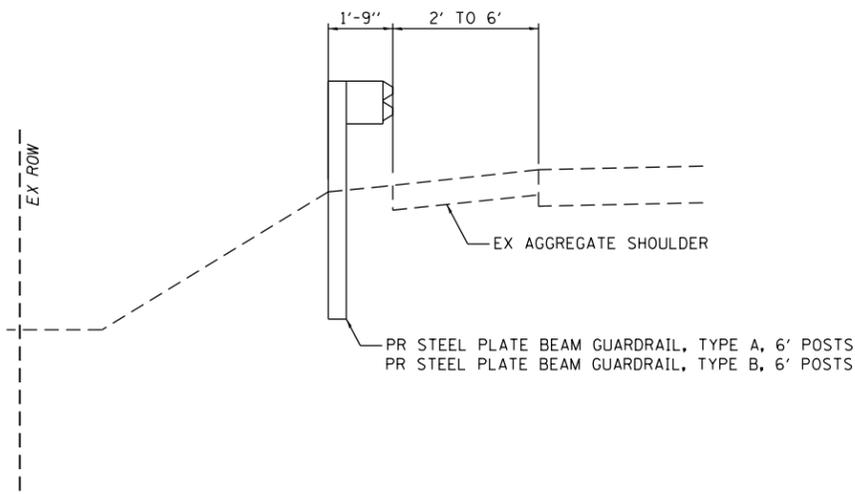
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	3
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				



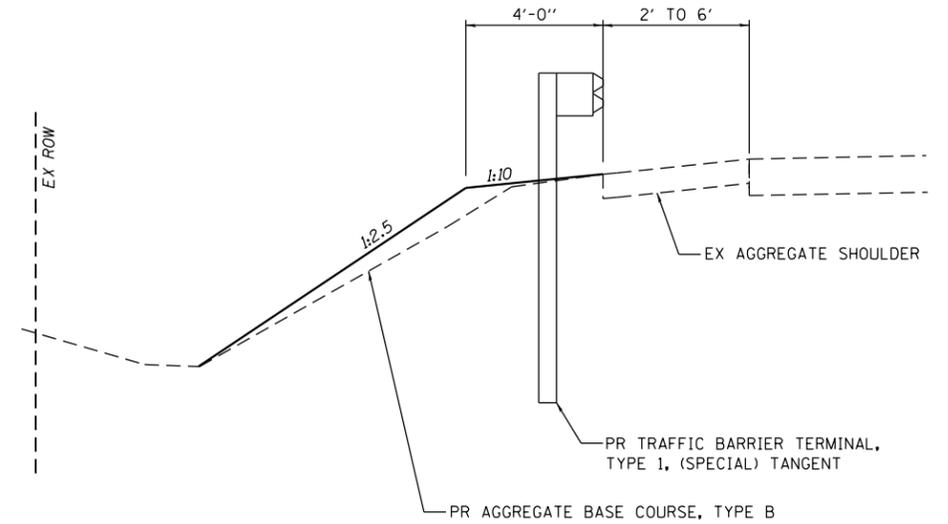
PROPOSED TYPICAL SECTION #1

GUARDRAIL WITH 9' POSTS
(LOCATIONS 4, 5, 11, 16, 18, 24, 25, 26, 27, 28, 32, 33, 35, 37, 39, 42, 44)



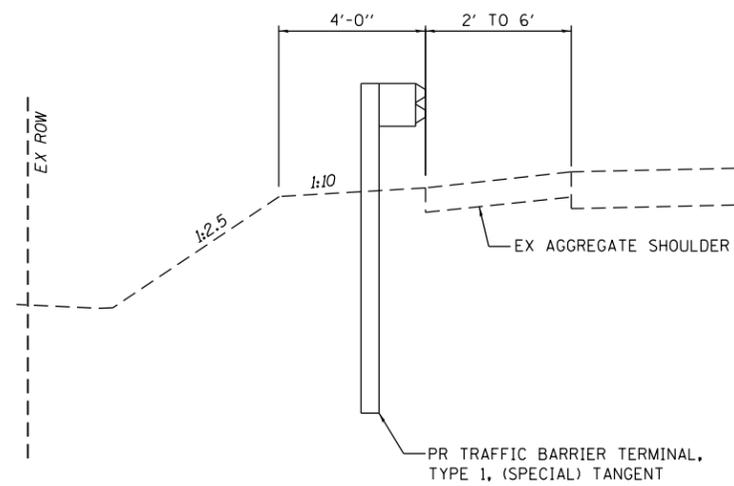
PROPOSED TYPICAL SECTION #2

GUARDRAIL WITH 6' POSTS
(LOCATIONS 3, 5, 6, 7, 24, 28, 33, 34, 38, 41, 43)



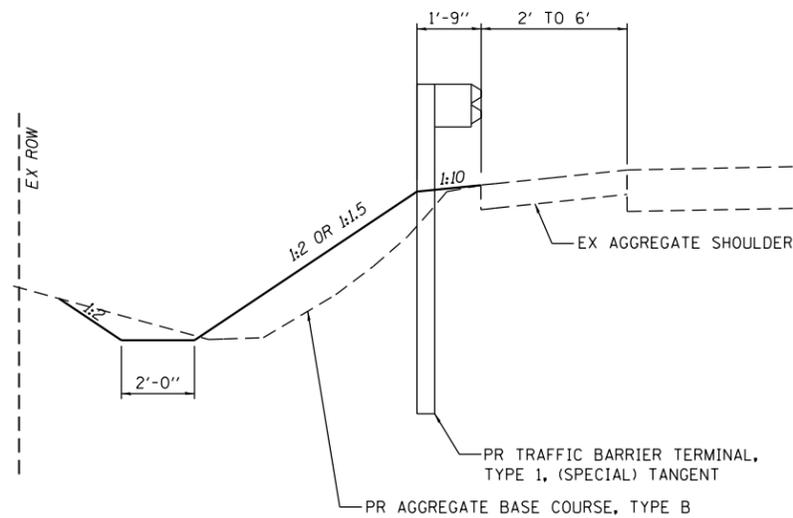
PROPOSED TYPICAL SECTION #3

TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
(LOCATIONS 3, 4, 5, 6, 12, 13, 16, 18, 24, 25, 26, 27, 28, 32, 33, 37, 38, 39, 40, 41, 43, 44)



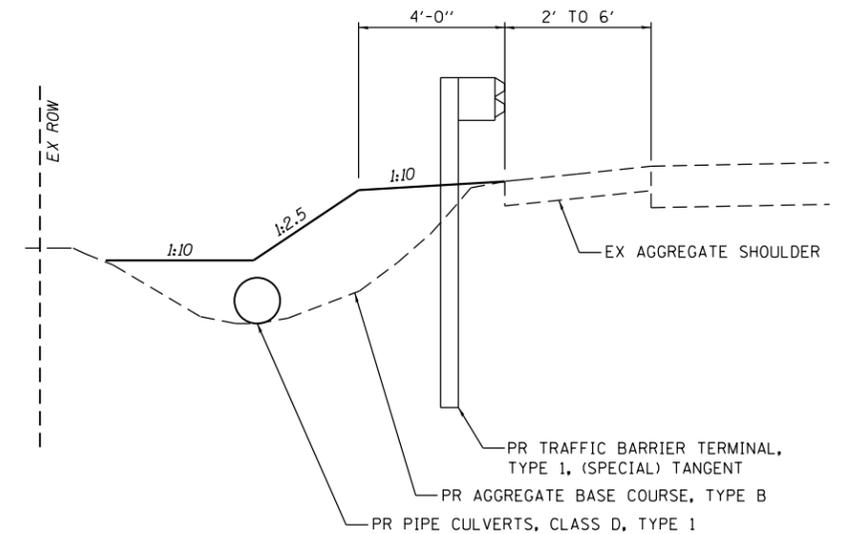
PROPOSED TYPICAL SECTION #4

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(LOCATIONS 3, 7, 28, 34)



PROPOSED TYPICAL SECTION #5

PR GRADING AND SHAPING DITCHES
(LOCATIONS 5, 6, 11, 18, 25, 26, 27, 33, 37, 38, 39, 43, 44)



PROPOSED TYPICAL SECTION #6

PR PIPE CULVERT AT TYPE 1 TERMINAL (SPECIAL) TANGENT
(LOCATIONS 11, 12, 35, 37, 39, 43)

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PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 04/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

TYPICAL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	4
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				

EARTHWORK

LOCATION	EARTH EXCAVATION CU YD	AGGREGATE BASE COURSE, TYPE B TON
3	0	51
4	5	308
5	0	51
6	10	92
11	20	154
12	0	390
13	0	113
18	0	103
24	5	133
25	5	92
26	5	349
27	10	144
28	0	82
32	0	103
33	5	205
35	5	349
37	5	185
38	5	72
39	15	226
40	5	41
41	5	82
42	0	236
43	10	103
44	10	267

TOTAL 125 3,931
USE 3,930

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	TEMPORARY EROSION CONTROL SEEDING	INLET AND PIPE PROTECION	GRADING AND SHAPING DITCHES	TEMPORARY DITCH CHECKS
		POUND	EACH	FOOT	FOOT
3	NW	2.1			
	SE	0.9			
4	NW	3.3			
	SW	2.1			
	NE	1.9			
5	LT	1.7	2	37	
	RT	2.9			
6	LT	2.9		62	8
	RT	1.6			
11	NE	2.9	1		
	SE	2.4		59	8
	NW	2.7		73	8
	SW	2.3		59	8
12	NE	2.7	1		
	SE	1.7			
	NW	3.0	1		
	SW	0.4			
13	NE	1.7			
	SE	1.2			
	NW	1.3			
	SW	1.2			
18	LT	6.4		83	8
	RT	1.9			
24	NW	1.9			
	NE	2.4			
	SE	2.3			
25	LT	4.7		73	8
	RT	1.8			
26	NE	5.9		60	8
	SE	3.3			
	NW	3.8			
	SW	1.9			
27	LT	4.3		112	16
	RT	2.7			
28	LT	1.8			
	RT	1.3			
32	LT	3.8			
	RT	2.4			
33	LT	6.1	1	66	
	RT	7.8	1	41	
35	SW	2.4	1		
	NW	2.8	1		
	SE	2.9	1		
	NE	1.9	1		
37	NW	1.5			
	NE	2.8		72	8
	SW	1.8	1		
	SE	1.4			
38	LT	1.0			
	RT	3.9		63	8
39	NE	2.9	1		
	SE	0.5			
	NW	2.1		59	8
	SW	3.0			
40	NW	1.3			
	NE	0.6			
	SW	0.8			
	SE	0.7			

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	TEMPORARY EROSION CONTROL SEEDING	INLET AND PIPE PROTECION	GRADING AND SHAPING DITCHES	TEMPORARY DITCH CHECKS
		POUND	EACH	FOOT	FOOT
41	NW	1.9			
	NE	1.2			
	SW	1.4			
	SE	1.0			
42	NW	3.8			
	NE	3.2			
	SW	0.3			
	SE	2.6			
43	NW	2.6		72	8
	NE	0.8	1		
	SW	1.5	1	36	
	SE	1.2			
44	NW	2.7		73	8
	NE	1.9			
	SW	2.5		71	8
	SE	2.3			

TOTAL 178 15 1,171 120

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 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - CGF
 CHECKED - THF
 DATE - 03/22/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

ROUTE VARIOUS	SECTION 18-00136-00-GR	COUNTY JASPER	TOTAL SHEETS 36	SHEET NO. 5
SCALE:			CONTRACT NO. 95917	
SHEET	OF	SHEETS	STA.	TO STA.
			ILLINOIS	FED. AID PROJECT

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	SPBGR, TY A, 6' POSTS	SPBGR, TY A, 9' POSTS	SPBGR, TY B, 6' POSTS	SPBGR, TY B, 9' POSTS	SPBGR TYPE A (SPECIAL)	SPBGR (SHORT RADIUS)	STEEL RAILING, TYPE SM	TBT TY 1 (SPECIAL) TANGENT 50'	TBT TYPE 2	TBT TYPE 5	TBT TYPE 5A	TBT TYPE 6	TBT TYPE 6A	TBT TYPE 10	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL BLOCKS
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH
3	NW								1			1				75.0				1	
	SW	37.5							1			1				75.0		4		1	
	NE	50.0							1			1				75.0		4		1	
	SE								1			1				75.0				1	
4	NW		75.0						1			1				50.0		4		1	
	SW		25.0						1			1				50.0		4		1	
	NE		25.0						1			1				50.0		4		1	
	SE		75.0						1			1				50.0		4		1	
5	LT	62.5		50.0		50.0			1							75.0	50.0	8		1	
	RT	62.5	12.5	25.0	25.0	50.0			2							112.5	50.0	8		2	
6	LT	62.5		50.0		25.0			2							125.0	25.0	8		2	
	RT	37.5		37.5		25.0	50.0		1							125.0	25.0	8		1	
7	LT	50.0							1				2			137.5		8	6	1	
	RT	137.5								1			2			212.5		8	6		
11	NE		25.0						1			1						4		1	
	SE								1			1						4		1	
	NW								1			1						4		1	
	SW		25.0						1			1						4		1	
12	NE								1			1						4		1	
	SE								1			1						4		1	
	NW								1			1						4		1	
	SW						25.0					1						4			
13	NE								1			1						4		1	
	SE								1			1						4		1	
	NW								1			1						4		1	
	SW								1			1						4		1	
18	LT		25.0		50.0	75.0			2								75.0	8		2	
	RT		25.0		50.0	75.0			2								75.0	8		2	
24	NW		12.5						1			1						4		1	
	SW	12.5							1			1				37.5		4		1	
	NE	25.0							1			1				37.5		4		1	
	SE								1			1						4		1	
25	LT	12.5	62.5						2						2			8	2	2	
	RT	75.0							2						2			8	2	2	
26	NE		50.0						1		1					75.0		4		1	
	SE		25.0						1		1					75.0		4		1	
	NW		25.0						1		1					75.0		4		1	
	SW		50.0						1		1					75.0		4		1	
27	LT					25.0			2							87.5	25.0	4		2	
	RT				12.5	25.0			2							87.5	25.0	4		2	
28	LT	50.0		37.5		62.5			2								62.5	4		2	
	RT		25.0		37.5	62.5			2								62.5	4		2	
32	LT		12.5					36	2					2			37.5	8		2	
	RT		12.5					36	2					2			37.5	8		2	
33	LT	12.5		25.0		75.0			2							75.0	75.0	4		2	
	RT		12.5		25.0	75.0			2							75.0	75.0	4		2	
34	NE								1			1				37.5		4		1	
	SE	12.5							1			1				37.5		4		1	
	NW	12.5							1			1				37.5		4		1	
	SW								1			1				37.5		4		1	

MODEL: Default
FILE: 2519_1-ehs-schedules.dgn



JOB = 2519.1
FILE NAME = 2519_1-ehs-schedules.dgn
PLOT SCALE = 2.0000 1/in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 04/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	6
CONTRACT NO. 95917				
ILLINOIS		FED. AID PROJECT		

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	SPBGR, TY A, 6' POSTS	SPBGR, TY A, 9' POSTS	SPBGR, TY B, 6' POSTS	SPBGR, TY B, 9' POSTS	SPBGR TYPE A (SPECIAL)	SPBGR (SHORT RADIUS)	STEEL RAILING, TYPE SM	TBT TY 1 (SPECIAL) TANGENT 50'	TBT TYPE 2	TBT TYPE 5	TBT TYPE 5A	TBT TYPE 6	TBT TYPE 6A	TBT TYPE 10	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL BLOCKS
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH
35	SW								1							37.5		4		1	5
	NW		25.0						1							37.5		4		1	5
	SE		25.0						1							37.5		4		1	5
	NE								1							37.5		4		1	5
37	NW								1							37.5		4		1	5
	NE		25.0						1							37.5		4		1	5
	SW		25.0						1							37.5		4		1	5
	SE								1							37.5		4		1	5
38	LT	75.0						29	1					2			25.0	8		1	
	RT	50.0						29	2					2			25.0	8		2	
39	NE		12.5						1			1				37.5		4		1	
	SE						37.5					1						4			
	NW								1			1						4		1	
	SW		12.5						1			1				37.5		4		1	
40	NW								1			1						4		1	
	NE								1			1						4		1	
	SW								1			1						4		1	
	SE								1			1						4		1	
41	NW			37.5					1						1	50.0		4		1	
	NE			37.5					1						1	50.0		4		1	
	SW			37.5					1						1	50.0		4		1	
	SE			37.5					1						1	50.0		4		1	
42	NW		25.0						1							37.5		4		1	5
	NE								1			1						4		1	
	SW		12.5				25.0					1						4			
	SE		12.5						1							37.5		4		1	5
43	NW								1			1						4		1	
	NE	12.5							1			1				37.5		4		1	
	SW	12.5							1			1				37.5		4		1	
	SE								1			1						4		1	
44	NW								1			1						4		1	
	NE		12.5						1			1						4		1	
	SW		12.5						1			1						4		1	
	SE								1			1						4		1	
TOTAL		862.5	800.0	375.0	200.0	625.0	137.5	130	95	1	4	46	4	8	8	2,862.5	750.0	384	16	95	50

MODEL: Default
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JOB = 2519.1
 FILE NAME = 2519_1-ehh-schedules.dgn
 PLOT SCALE = 2.0000 1/In.
 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - CGF
 CHECKED - THF
 DATE - 04/29/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	7
CONTRACT NO. 95917				
ILLINOIS		FED. AID PROJECT		

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	SEEDING, CLASS 2 (SPECIAL) ACRE
3	NW	0.021
	SE	0.009
4	NW	0.033
	SW	0.021
	NE	0.019
	SE	0.030
5	LT	0.017
	RT	0.029
6	LT	0.029
	RT	0.016
11	NE	0.029
	SE	0.024
	NW	0.027
	SW	0.023
12	NE	0.027
	SE	0.017
	NW	0.030
	SW	0.004
13	NE	0.017
	SE	0.012
	NW	0.013
	SW	0.012
18	LT	0.064
	RT	0.019
24	NW	0.019
	NE	0.024
	SE	0.023
25	LT	0.047
	RT	0.018
26	NE	0.059
	SE	0.033
	NW	0.038
	SW	0.019
27	LT	0.043
	RT	0.027
28	LT	0.018
	RT	0.013
32	LT	0.038
	RT	0.024
33	LT	0.061
	RT	0.078
35	SW	0.024
	NW	0.028
	SE	0.029
	NE	0.019

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	SEEDING, CLASS 2 (SPECIAL) ACRE
37	NW	0.015
	NE	0.028
	SW	0.018
	SE	0.014
38	LT	0.010
	RT	0.039
39	NE	0.029
	SE	0.005
	NW	0.021
	SW	0.030
40	NW	0.013
	NE	0.006
	SW	0.008
	SE	0.007
41	NW	0.019
	NE	0.012
	SW	0.014
	SE	0.010
42	NW	0.038
	NE	0.032
	SW	0.003
	SE	0.026
43	NW	0.026
	NE	0.008
	SW	0.015
	SE	0.012
44	NW	0.027
	NE	0.019
	SW	0.025
	SE	0.023
TOTAL		1.755
USE		1.75

LOCATION NUMBER	QUADRANT (NE, SE, NW, SW, LEFT, RIGHT)	PIPE CULVERTS, CLASS D, TYPE 1 15"	PIPE CULVERTS, CLASS D, TYPE 1 24"
		FOOT	FOOT
5	LT	58	
11	NE	66	
12	NE		84
	NW	50	
35	SW		46
	NW	44	
	SE		52
	NE	50	
37	SW		54
39	NE	58	
43	NE	36	
TOTAL		362	236

LOCATION NUMBER	STATION	TYPE	WIDTH	AGGREGATE SURFACE COURSE, TYPE B
			FOOT	TON
5	LT STA 12+97.00	FE	40	33
TOTAL				33

MODEL: D:\cfs\18-00136-00-GR\18-00136-00-GR.dgn
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JOB = 2519_1
 FILE NAME = 2519_1-hls-schedules.dgn
 PLOT SCALE = 2.0000' / 1in.
 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - CGF
 CHECKED - THF
 DATE - 04/29/2021

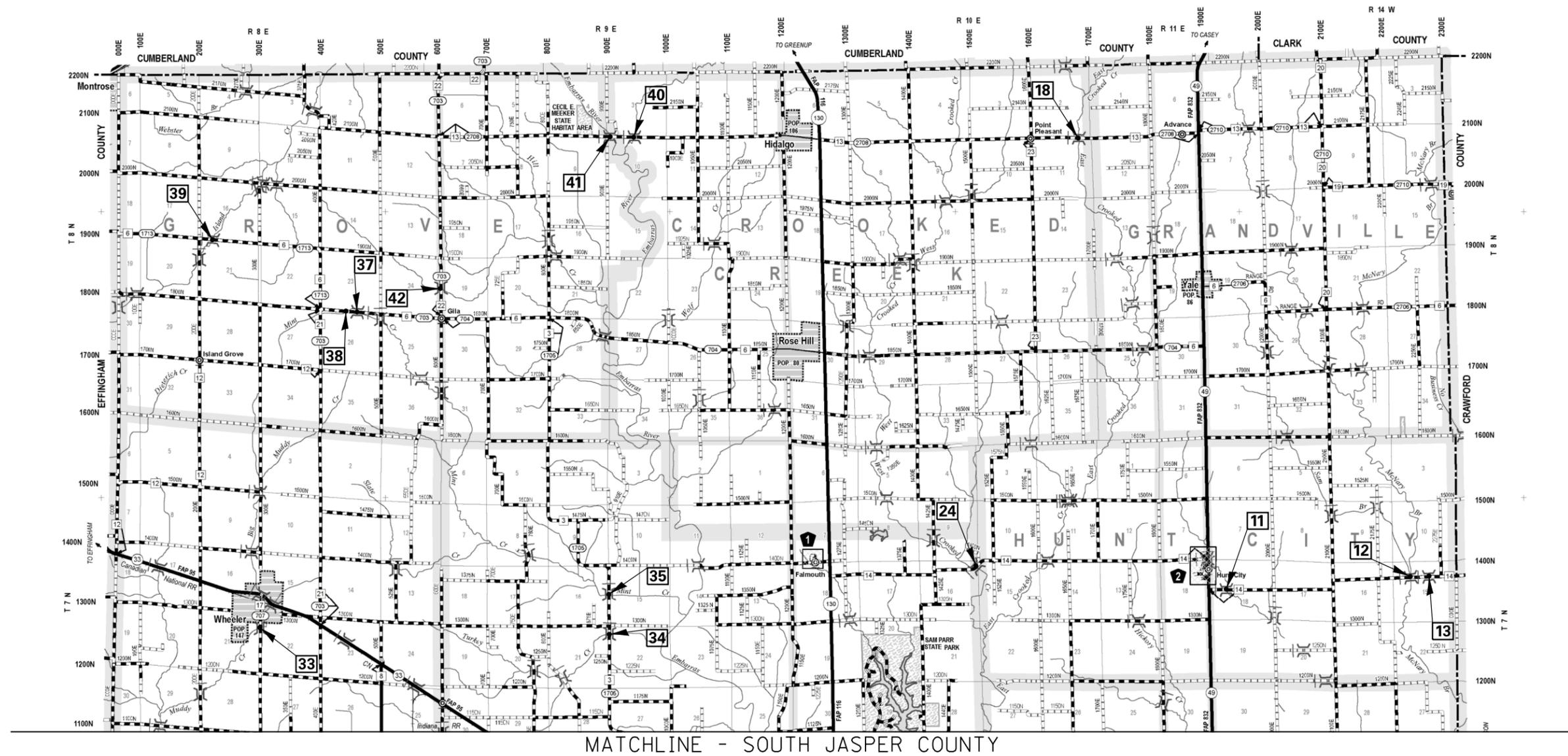
REVISED -
 REVISED -
 REVISED -
 REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95917	



MATCHLINE - SOUTH JASPER COUNTY

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JOB = 2519.1
 FILE NAME = 2519_1_sht\location map.dgn
 PLOT SCALE = 2.0000" / 1 in.
 PLOT DATE = 3/23/2022

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 04/29/2021

**JASPER COUNTY
 GUARDRAIL IMPROVEMENTS**

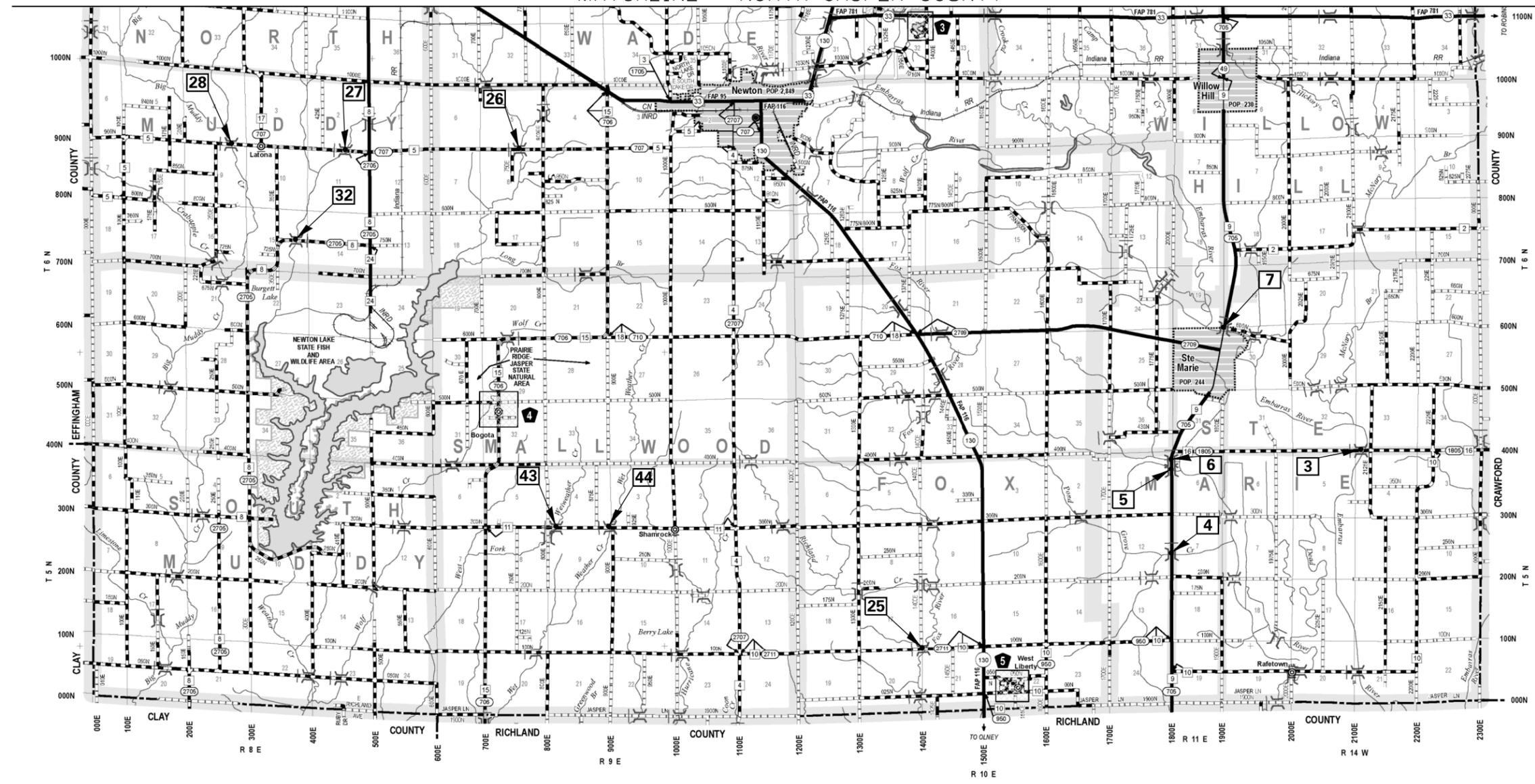
SCALE: SHEET OF SHEETS STA. TO STA.

LOCATION MAP

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	9
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				



MATCHLINE - NORTH JASPER COUNTY



MODEL: Default
FILE NAME: 2519.1_sht-location_map.dgn



JOB = 2519.1
FILE NAME = 2519.1_sht-location map.dgn
PLOT SCALE = 2.0000" / in.
PLOT DATE = 3/23/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 04/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

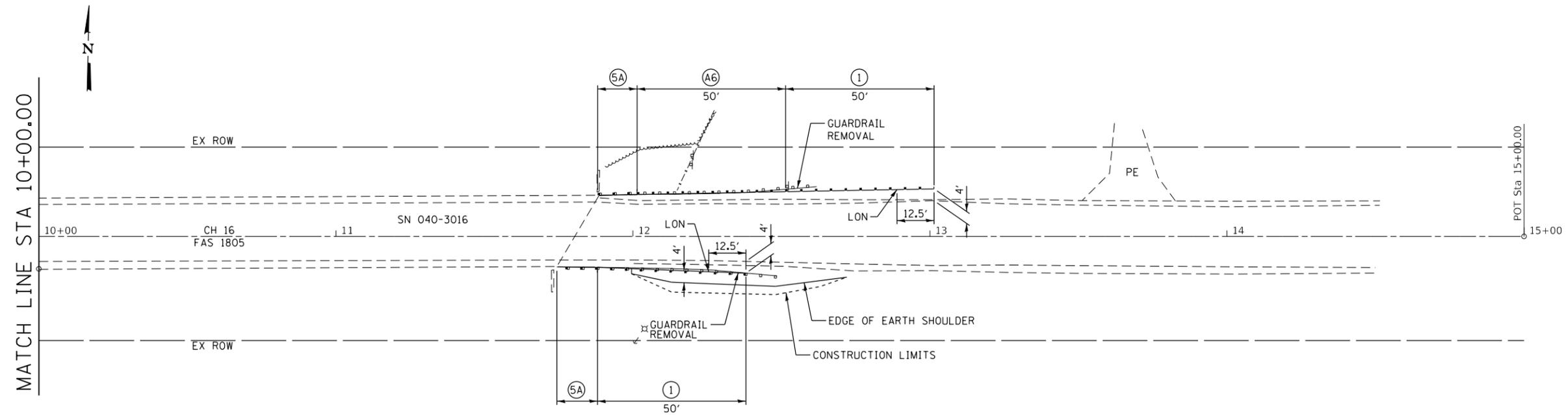
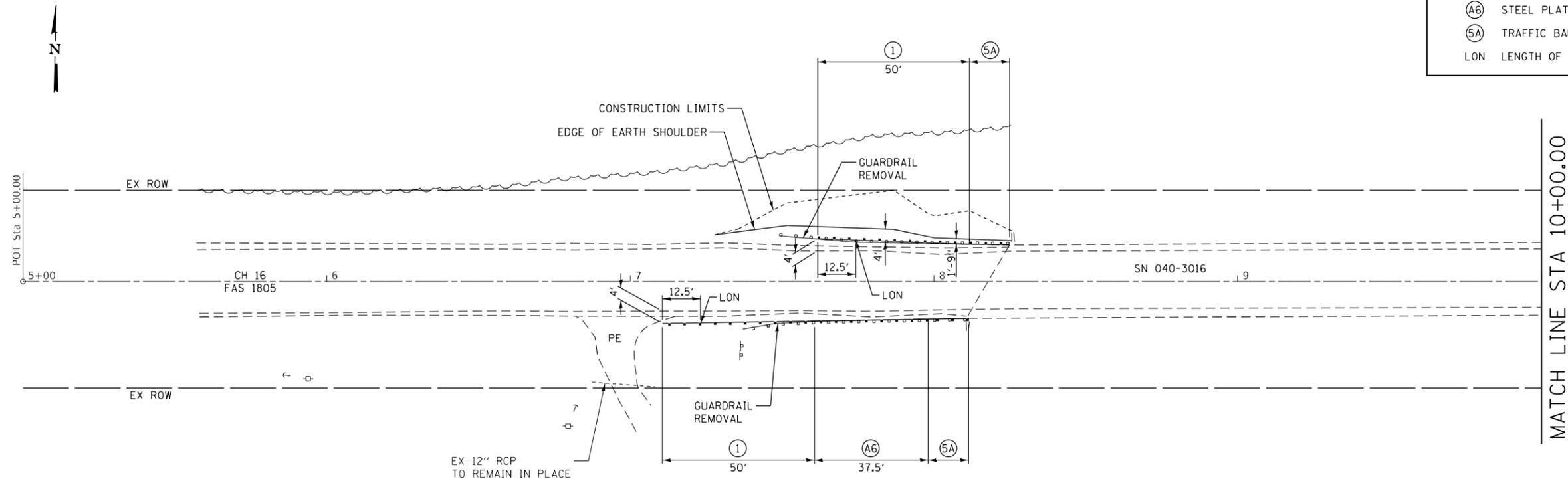
LOCATION MAP

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	10
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓜ TRAFFIC BARRIER TERMINAL, TYPE 5A
- LON LENGTH OF NEED POINT



LOCATION 3

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+00.00	816626.94	1084124.89
POT	15+00.00	816636.97	1085124.84

LOCATION NO. 3
MAJOR COLLECTOR
ADT 750 (2016)
DESIGN SPEED 50 MPH

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 3



JOB = 2519.1
FILE NAME = 2519.1-ehp-plan3.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 04/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	11
CONTRACT NO. 95917				

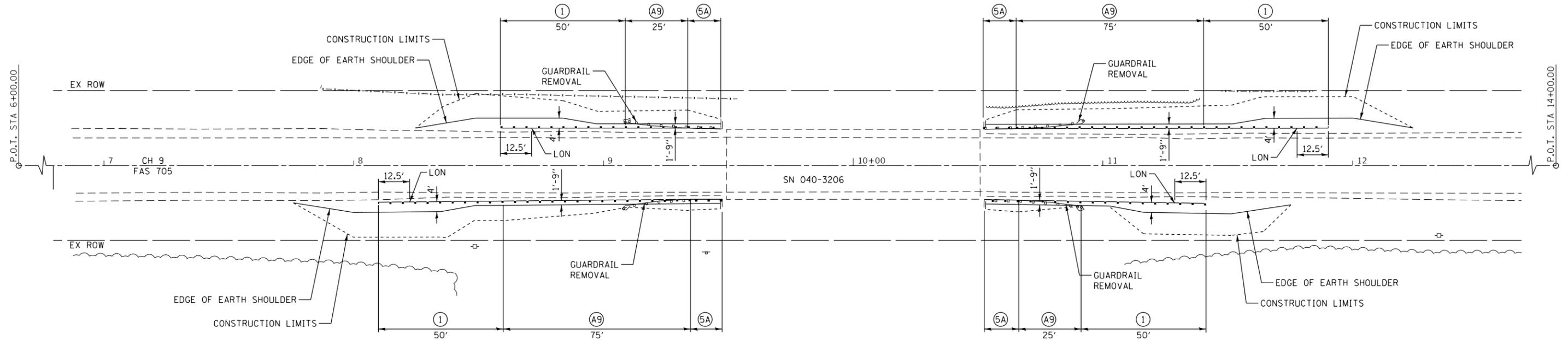
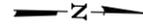
ILLINOIS FED. AID PROJECT

MODEL: D:\c\18-00136-00-GR\18-00136-00-GR.dgn

SEC 12, T5N, R10E, 3RD PM

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓐ5A TRAFFIC BARRIER TERMINAL, TYPE 5A
- LON LENGTH OF NEED POINT



SEC 7, T5N, R11E, 3RD PM

LOCATION 4

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	807400.25	1068263.85
POT	14+00.00	808200.25	1068264.83

LOCATION NO. 4
MAJOR COLLECTOR
ADT 1350 (2016)
DESIGN SPEED 50 MPH

MODEL: Default
FILE: 2519_18-00136-00-GR_1-shh-plan4.dgn



JOB = 2519.1
FILE NAME = 2519_18-00136-00-GR_1-shh-plan4.dgn
PLOT SCALE = 40,0000' / 1in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 04/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

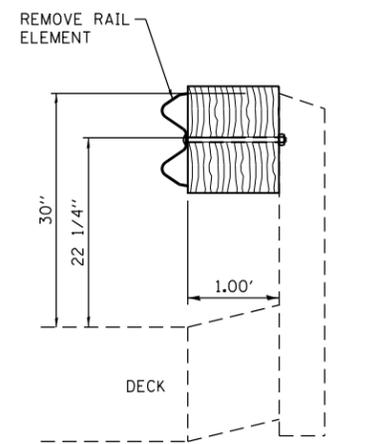
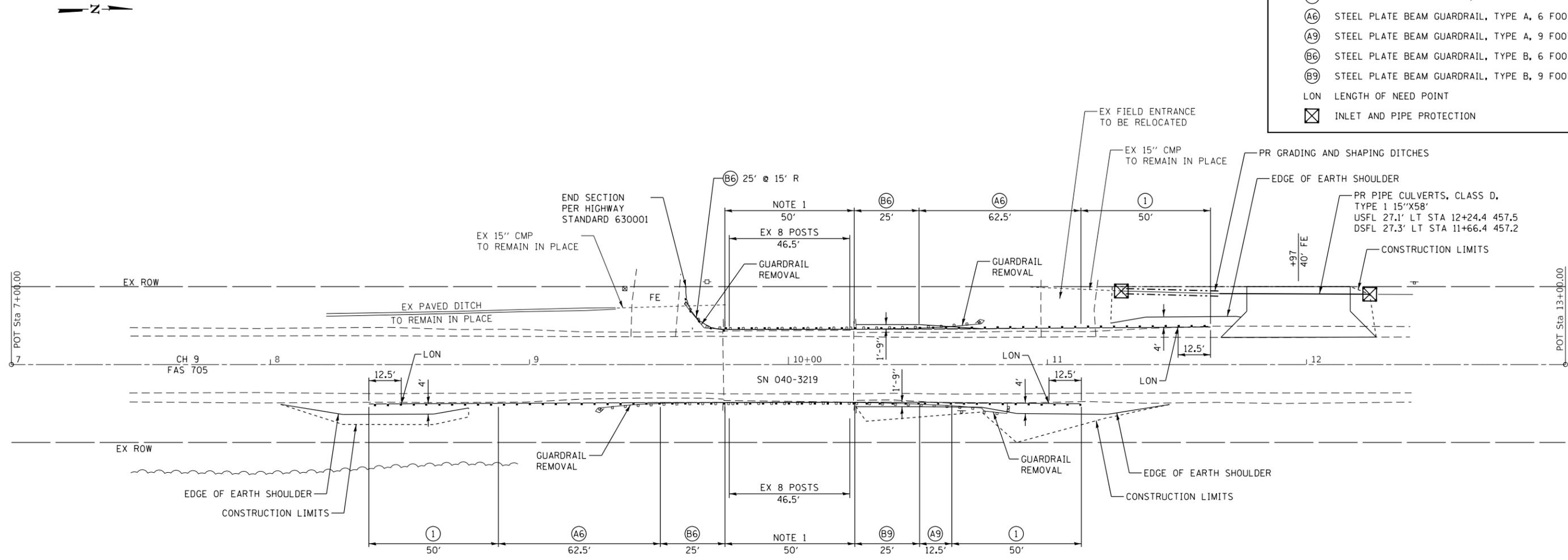
PLAN - LOCATION NO. 4

SCALE: SHEET OF SHEETS STA. TO STA.

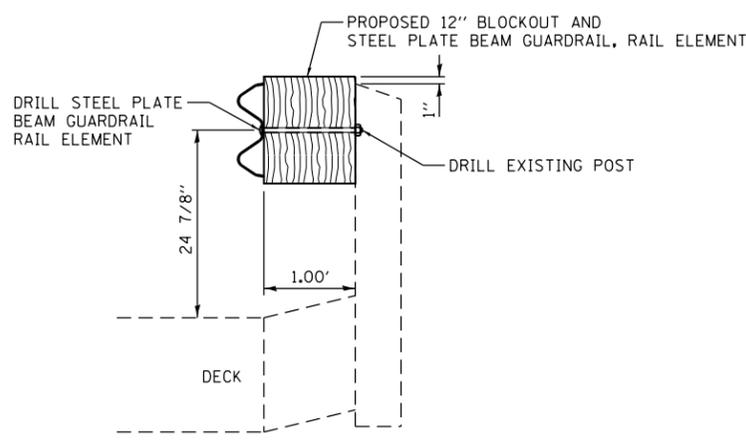
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	12
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓑ6 STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
- Ⓑ9 STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION



GUARDRAIL REMOVAL SPECIAL



STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)

NOTE 1
EXISTING BRIDGE RAIL ELEMENTS SHALL BE REMOVED AND THE EXISTING POSTS MODIFIED AS DETAILED. NEW 6\"/>

CH 9 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS ON THE EXISTING POSTS. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

LOCATION 5			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	814635.03	1068257.10
POT	13+00.00	815234.98	1068248.89

LOCATION NO. 5
MAJOR COLLECTOR
ADT 1350 (2016)
DESIGN SPEED 50 MPH

MODEL Default
FILE NAME: 2519_1-ehlp1n5_6.dgn



JOB = 2519.1
FILE NAME = 2519_1-ehlp1n5_6.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 04/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

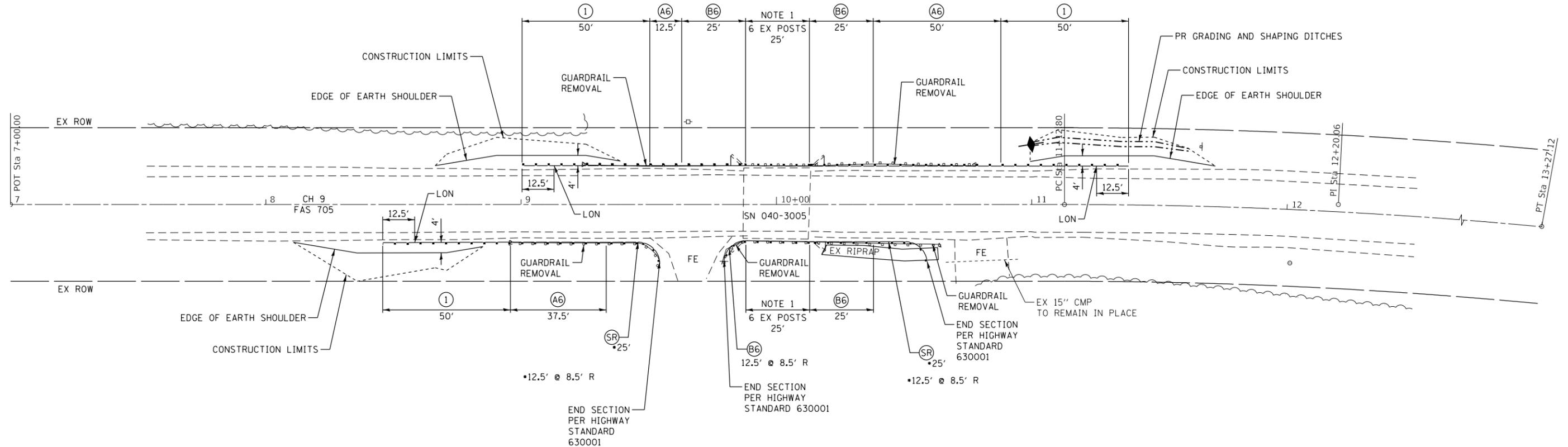
PLAN - LOCATION NO. 5

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	13
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				

LEGEND

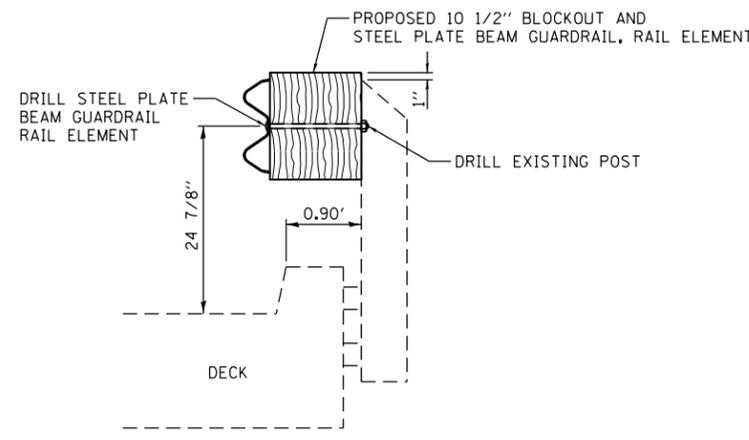
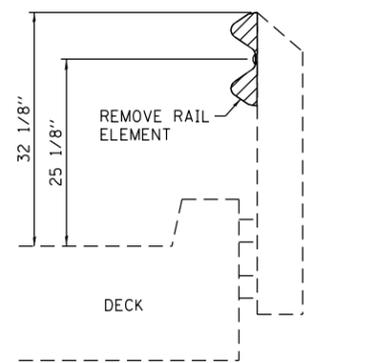
- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓑ6 STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
- ⒻⓇ STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
- LON LENGTH OF NEED POINT
- ◆ TEMPORARY DITCH CHECKS



EXIST. CURVE CRV6
 PI STA. = 12+20.06
 $\Delta = 6^\circ 05' 39''$ (RT)
 $D = 2^\circ 50' 36''$
 $R = 2,015.00'$
 $T = 107.26'$
 $L = 214.32'$
 $E = 2.85'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 11+12.80$
 $P.T. STA. = 13+27.12$

NOTE 1
 EXISTING BRIDGE RAIL ELEMENTS SHALL BE REMOVED AND THE EXISTING POSTS MODIFIED AS DETAILED. NEW 10 1/2" BLOCKOUT, AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE EXISTING POSTS.
 CH 9 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS ON THE EXISTING POSTS. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

LOCATION NO. 6			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	815398.30	1068246.65
PC	11+12.80	815811.07	1068241.01
PI	12+20.06	815918.32	1068239.54
PT	13+27.12	816025.12	1068249.47

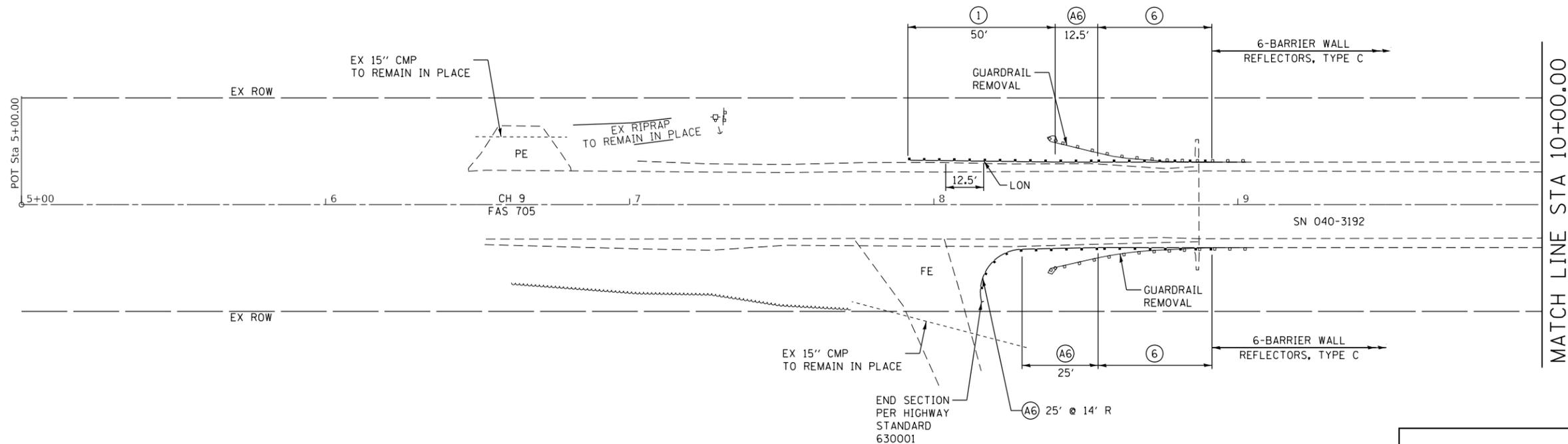
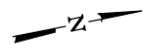


GUARDRAIL REMOVAL SPECIAL

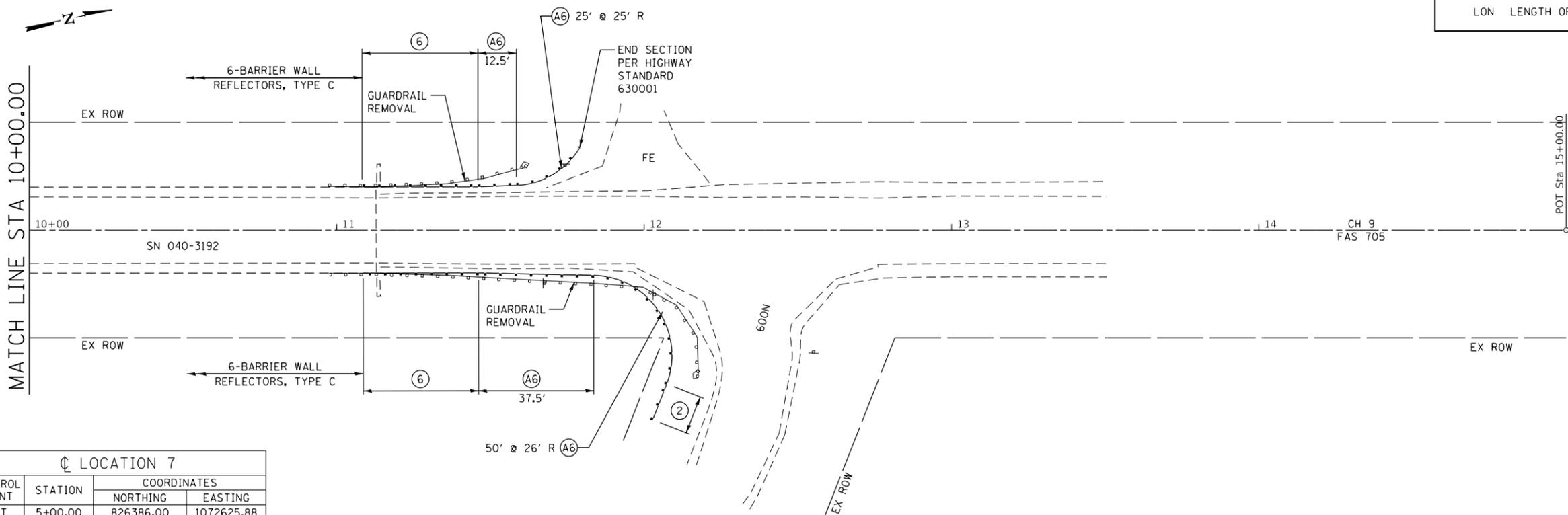
STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)

LOCATION NO. 6
 MAJOR COLLECTOR
 ADT 1350 (2016)
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 2519_1-ehh-plan5.dgn



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
②	TRAFFIC BARRIER TERMINAL, TYPE 2
⑥	TRAFFIC BARRIER TERMINAL, TYPE 6
Ⓐ6	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
LON	LENGTH OF NEED POINT



CL LOCATION 7			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+00.00	826386.00	1072625.88
POT	15+00.00	827367.49	1072817.41

LOCATION NO. 7
MAJOR COLLECTOR
ADT 1400 (2016)
DESIGN SPEED 50 MPH

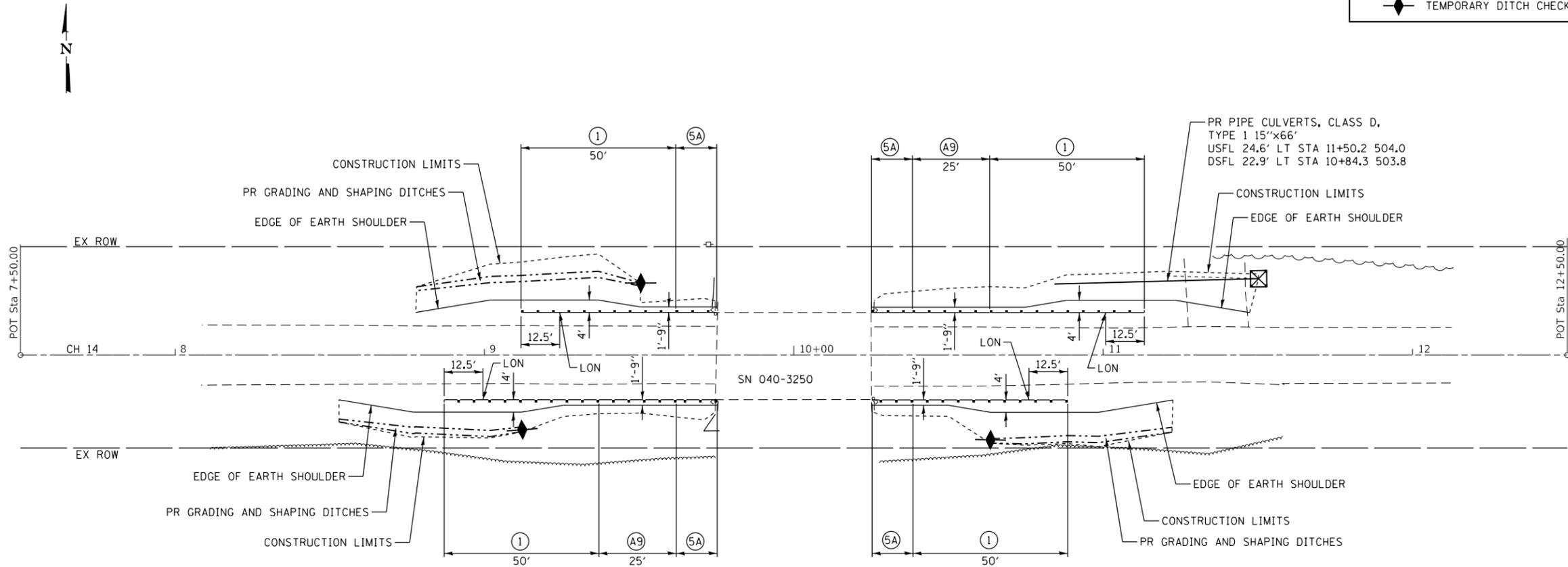
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Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2519.1 FILE NAME = 2519.1-ahb-plot7.dgn PLOT SCALE = 40,000' / 1"	DESIGNED - CGF DRAWN - SJS CHECKED - THF DATE - 04/29/2021	REVISED - REVISED - REVISED - REVISED -	JASPER COUNTY GUARDRAIL IMPROVEMENTS	PLAN - LOCATION NO. 7			ROUTE VARIOUS SECTION 18-00136-00-GR	COUNTY JASPER	TOTAL SHEETS 36 SHEET NO. 15	CONTRACT NO. 95917
	SCALE:	SHEET OF SHEETS	STA. TO STA.		ILLINOIS FED. AID PROJECT						

SEC 18, T7N, R14W, 2ND PM

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- ⊠ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS



Ⓞ LOCATION 11			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+50.00	866935.92	1073595.92
POT	12+50.00	866932.07	1074095.90

LOCATION NO. 11
MINOR COLLECTOR
ADT 200 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\cfe\18-00136-00-GR\18-00136-00-GR-11.dgn



JOB = 2519.1
FILE NAME = 2519.1-ehp-plan11.dgn
PLOT SCALE = 40,000' / 1in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

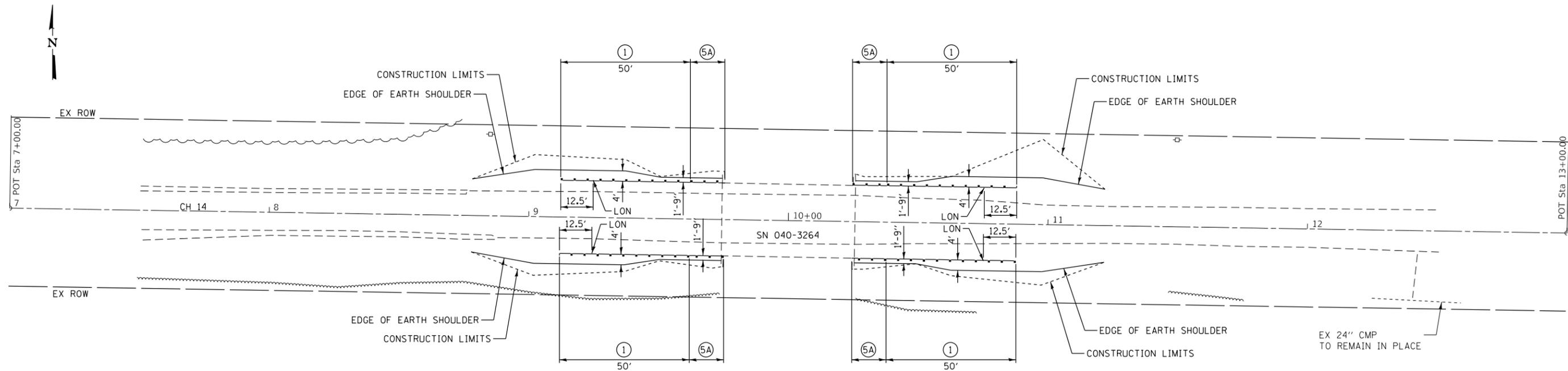
JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 11

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	16
CONTRACT NO. 95917				

ILLINOIS FED. AID PROJECT



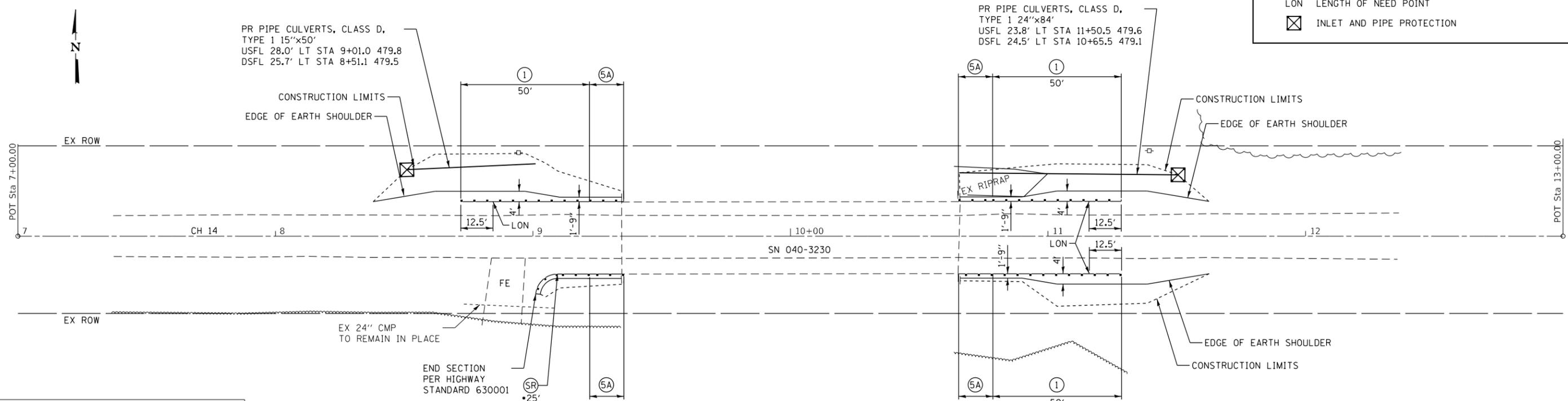
LOCATION 13

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	868055.37	1091384.15
POT	13+00.00	868068.75	1091984.00

LOCATION NO. 13
MINOR COLLECTOR
ADT 225 (2016)
DESIGN SPEED 40 MPH

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- ⓈR STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION



LOCATION 12

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	867997.55	1089802.38
POT	13+00.00	868020.51	1090401.94

LOCATION NO. 12
MINOR COLLECTOR
ADT 225 (2016)
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2519_1-shh-plan12_13.dgn



JOB = 2519.1
FILE NAME = 2519_1-shh-plan12_13.dgn
PLOT SCALE = 40,0000' / 1 in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

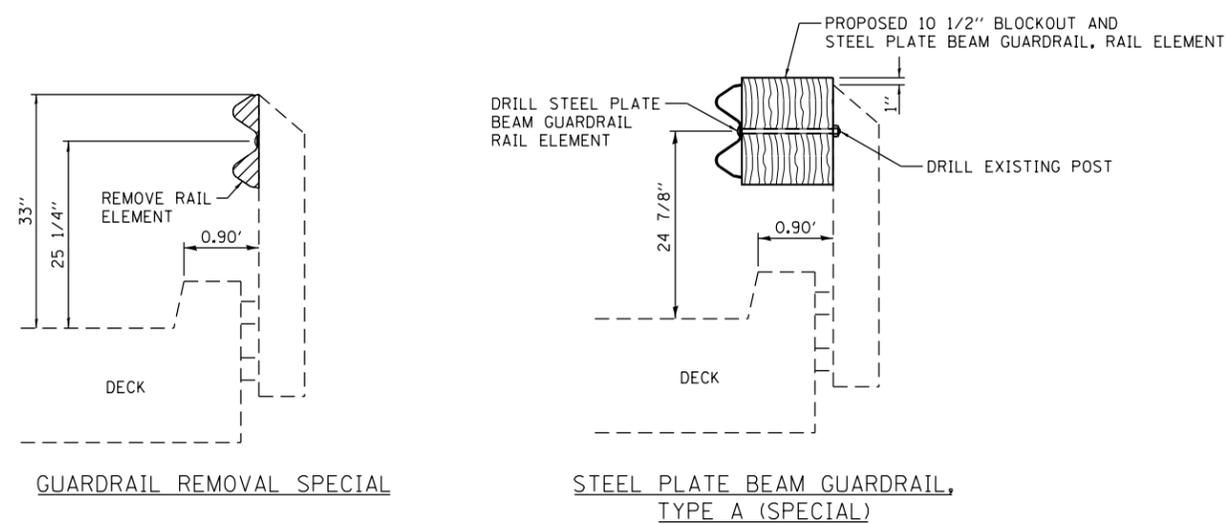
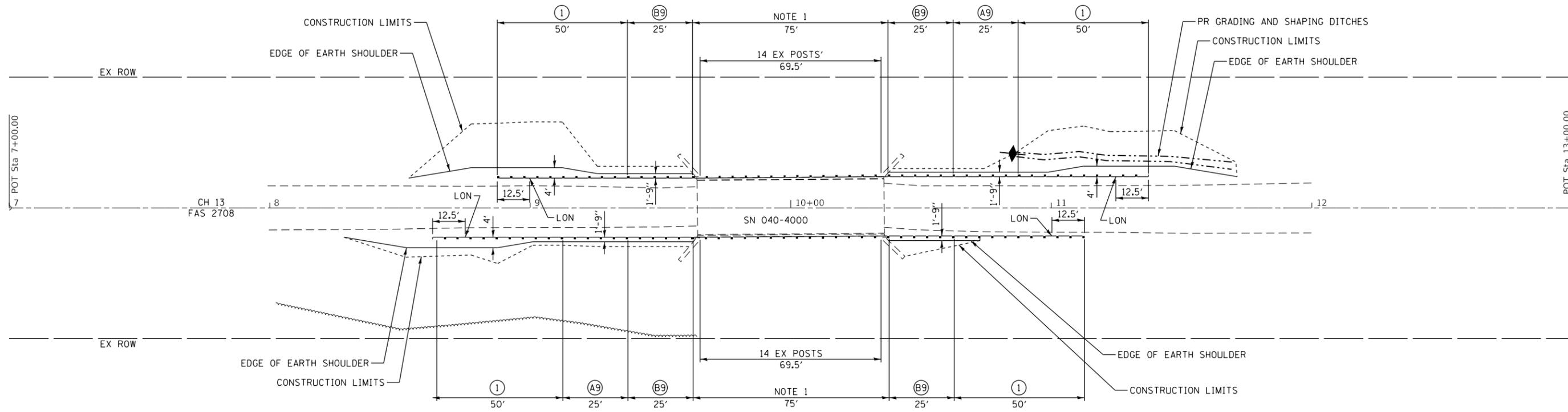
JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 12 & 13

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	17
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓑ STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- ◆ TEMPORARY DITCH CHECKS



NOTE 1
 EXISTING BRIDGE RAIL ELEMENTS SHALL BE REMOVED AND THE EXISTING POSTS MODIFIED AS DETAILED. NEW 10 1/2" BLOCKOUT, AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE EXISTING POSTS.

CH 13 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS ON THE EXISTING POSTS. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

LOCATION 18			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	906451.98	1060651.34
POT	13+00.00	906428.48	1061250.87

LOCATION NO. 18
 MAJOR COLLECTOR
 ADT 225 (2016)
 DESIGN SPEED 40 MPH

MODEL: D:\cfe\18.dwg
 FILE NAME: 2519_1-eh-plan18.dgn



JOB = 2519.1
 FILE NAME = 2519_1-eh-plan18.dgn
 PLOT SCALE = 40,0000' / 1in.
 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 4/29/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

**JASPER COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 18

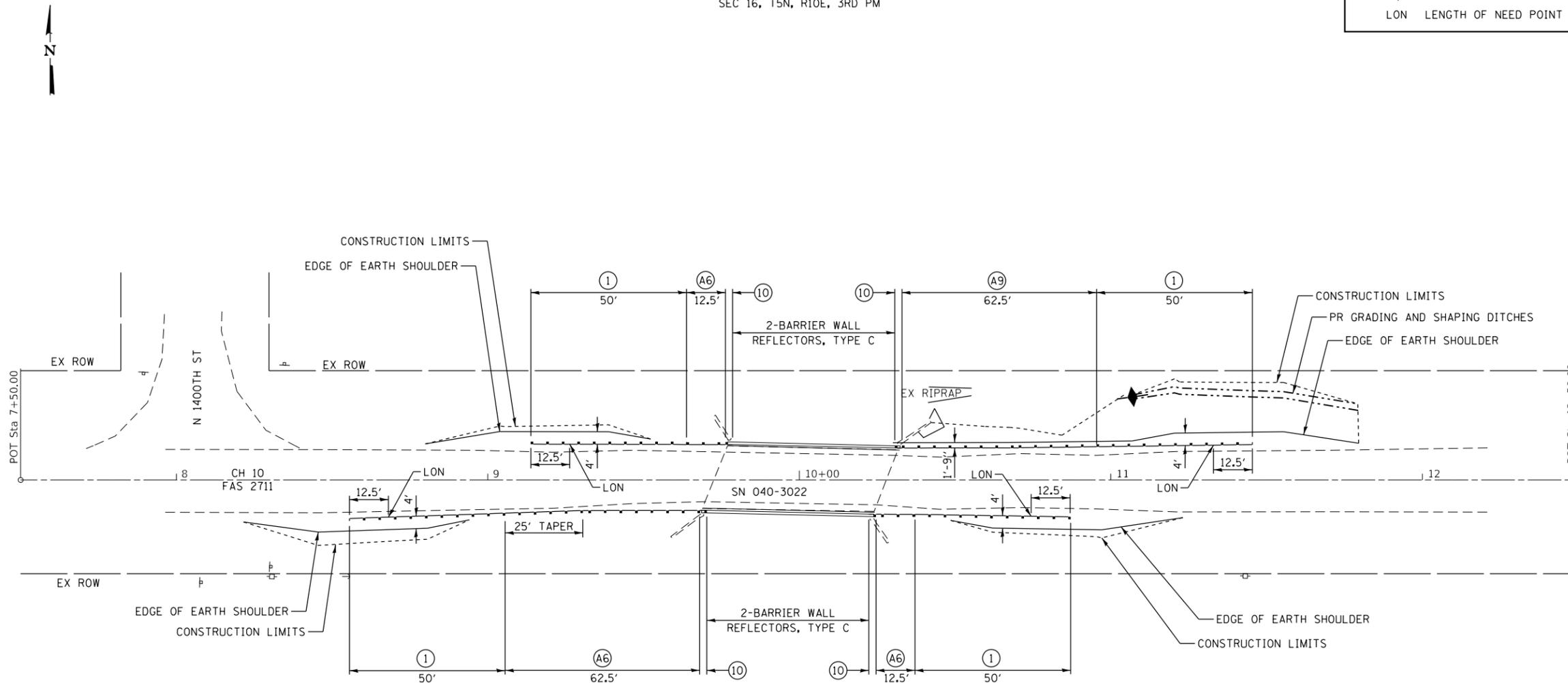
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	18
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑩ TRAFFIC BARRIER TERMINAL, TYPE 10
- Ⓐ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ◆ TEMPORARY DITCH CHECKS
- LON LENGTH OF NEED POINT

SEC 16, T5N, R10E, 3RD PM



SEC 21, T5N, R10E, 3RD PM

LOCATION 25

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+50.00	799685.00	1046784.72
POT	10+00.00	799695.08	1047034.52
POT	12+50.00	799705.16	1047284.32

LOCATION NO. 25
MAJOR COLLECTOR
ADT 200 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\p1\18-00136-00-GR\18-00136-00-GR-PLAN-25.dgn



JOB = 2519.1
FILE NAME = 2519.1-eh-plan25.dgn
PLOT SCALE = 40,000' / 1in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

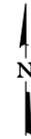
REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 25

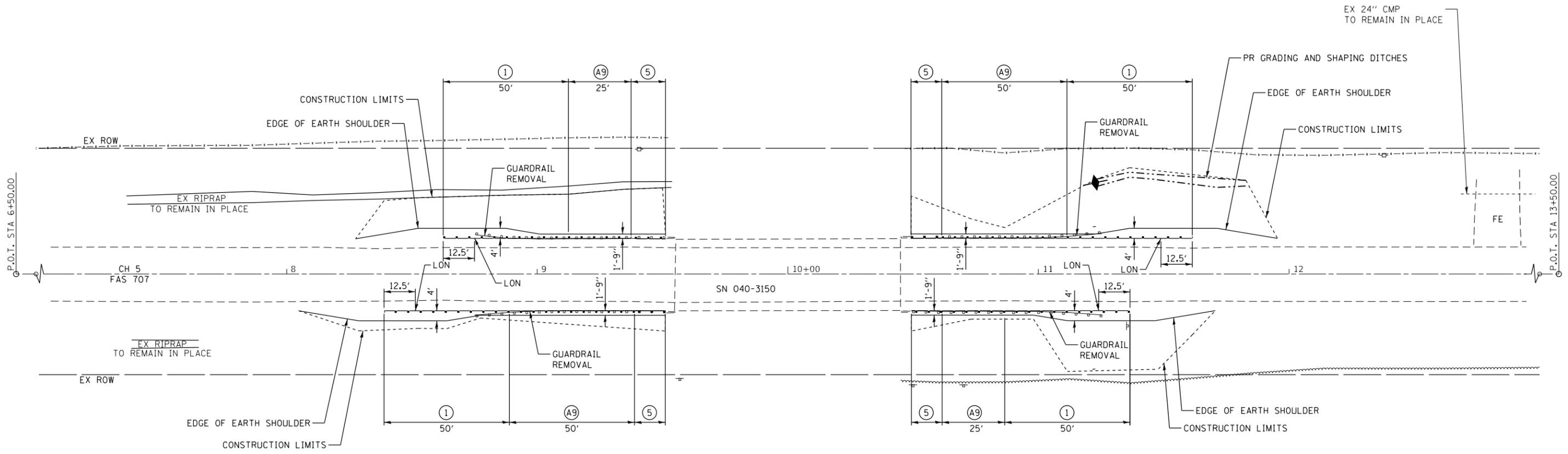
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	20
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	



SEC 5, T6N, R9E, 3RD PM

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑤	TRAFFIC BARRIER TERMINAL, TYPE 5
Ⓐ9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
LON	LENGTH OF NEED POINT
◆	TEMPORARY DITCH CHECKS



SEC 8, T6N, R9E, 3RD PM

LOCATION NO. 26

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+50.00	842254.78	1012196.46
POT	13+50.00	842257.93	1012896.45

LOCATION NO. 26
 MAJOR COLLECTOR
 ADT 750 (2016)
 DESIGN SPEED 50 MPH

MODEL: D:\c\19...
 FILE NAME: 2519...
 FILE NAME: 2519...



JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 2519.1-ehk-plan26.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 4/29/2021	REVISED -

JASPER COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 26

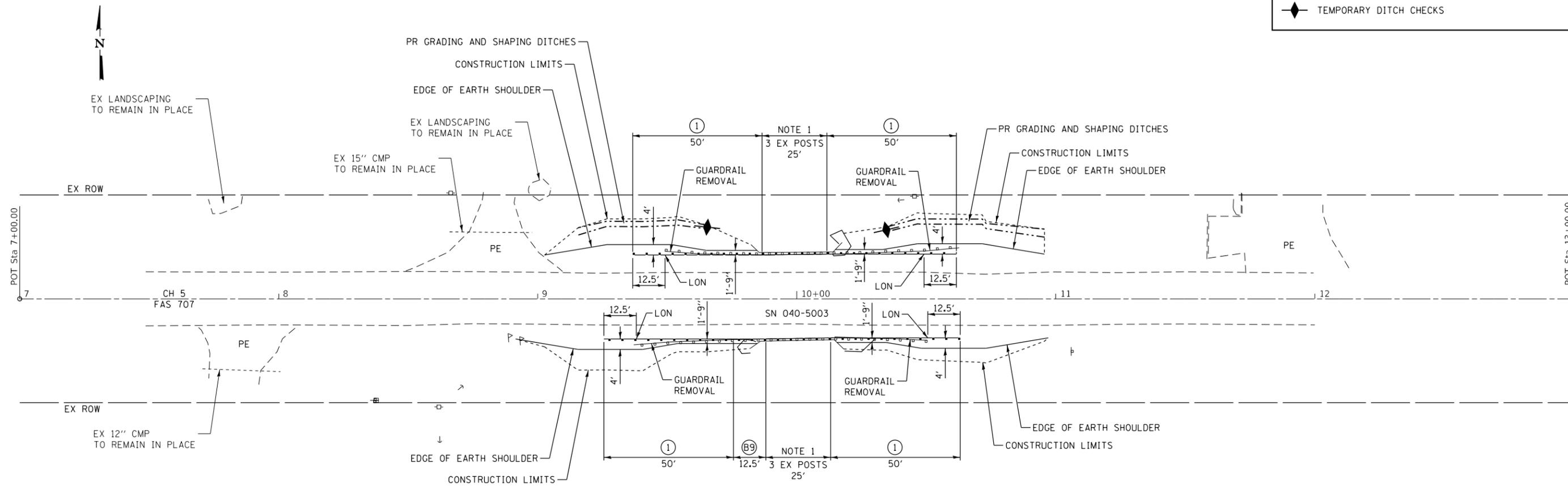
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	21
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				

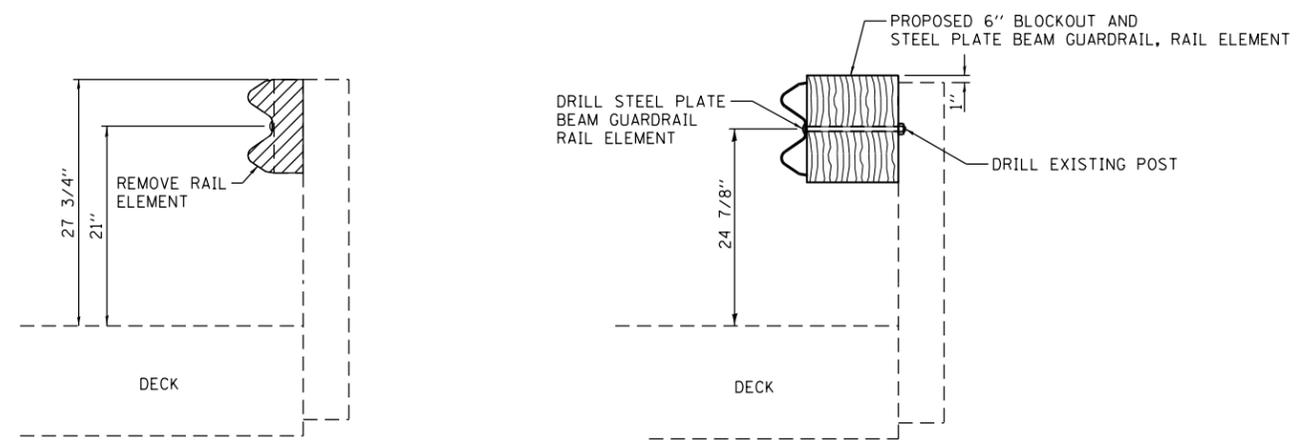
LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⓑ9 STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- ◆ TEMPORARY DITCH CHECKS

SEC 2, T6N, R8E, 3RD PM



SEC 11 T6N, R8E, 3RD PM



NOTE 1
 EXISTING BRIDGE RAIL ELEMENTS SHALL BE REMOVED. LOOSEN HARDWARE AT POSTS CONNECTED TO THE STRUCTURE AND SLIDE POST UP APPROXIMATELY 4\"/>

ALL HARDWARE THAT CONNECTS EXISTING POSTS TO THE STRUCTURE THAT NEEDS REPLACED WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CH 5 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING, MODIFICATION OF POSTS ATTACHED TO THE STRUCTURE, AND INSTALLING STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS ON THE EXISTING POSTS. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

LOCATION 27			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	842163.85	997393.79
POT	13+00.00	842118.29	997992.06

LOCATION NO. 27
 MAJOR COLLECTOR
 ADT 375 (2016)
 DESIGN SPEED 40 MPH

MODEL: D:\c\1\2519_1\shh\plan27.dgn



JOB = 2519.1
 FILE NAME = 2519_1-shh-plan27.dgn
 PLOT SCALE = 40,0000' / 1in.
 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 4/29/2021

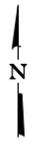
REVISED -
 REVISED -
 REVISED -
 REVISED -

JASPER COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 27

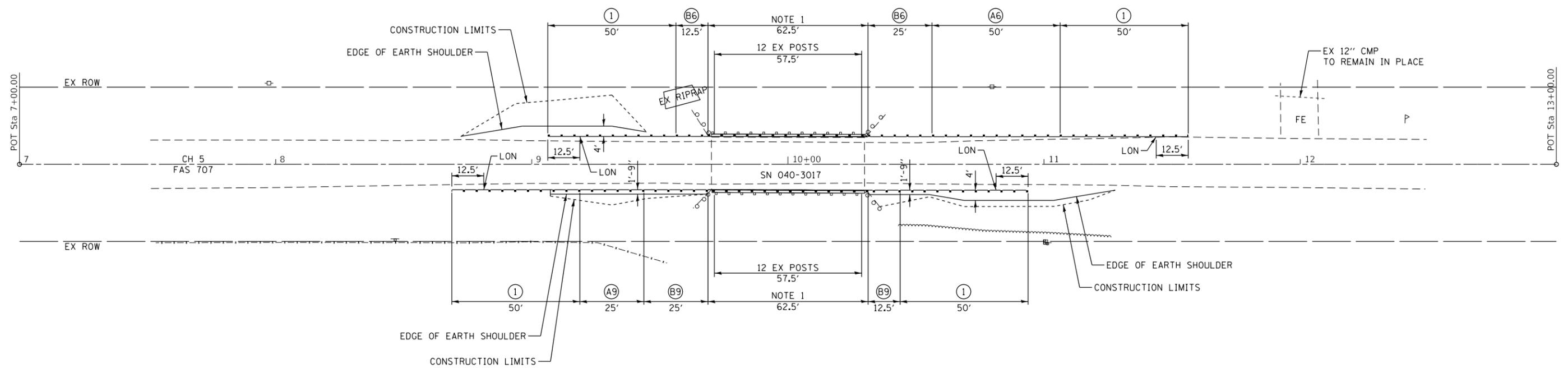
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	22
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

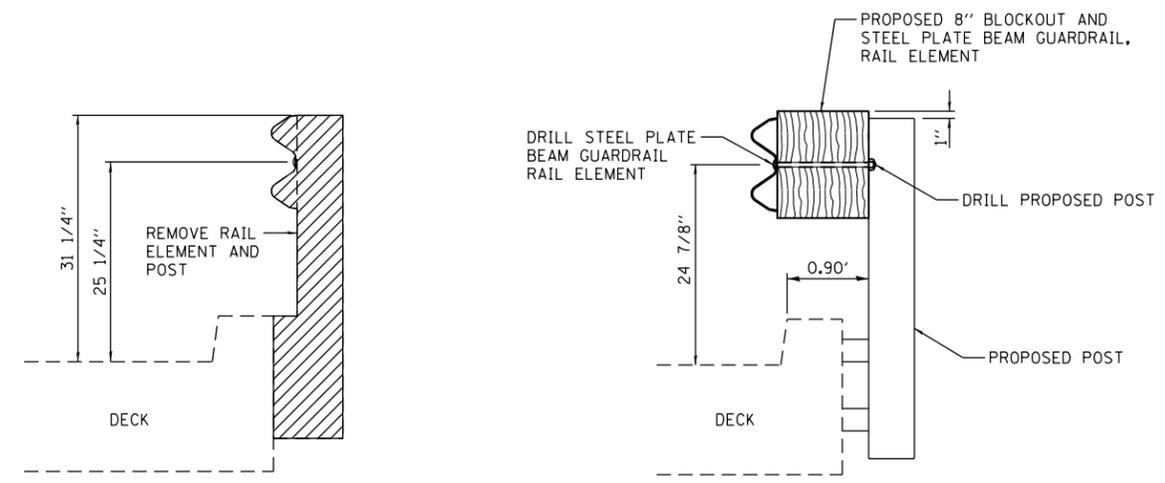


SEC 4, T6N, R8E, 3RD PM

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
Ⓐ6	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
Ⓐ9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
Ⓑ6	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
Ⓑ9	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
LON	LENGTH OF NEED POINT



SEC 9 T6N, R8E, 3RD PM



NOTE 1
 EXISTING BRIDGE RAIL ELEMENTS, POSTS AND HARDWARE SHALL BE REMOVED AS DETAILED. NEW 8" BLOCKOUT, AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE NEW POSTS. NEW POSTS SHALL BE POSITIONED AROUND THE STRUCTURE EXPANSION JOINTS.

CH 5 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS ON THE NEW POSTS. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

LOCATION 28			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	842725.84	987625.10
POT	13+00.00	842694.10	988224.26

LOCATION NO. 28
 MAJOR COLLECTOR
 ADT 350 (2016)
 DESIGN SPEED 40 MPH

MODEL: D:\c4\19_1\shp\plan28.dgn
 FILE NAME: 2519_1-shp\plan28.dgn



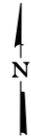
JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 2519_1-shp\plan28.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / 1"	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 4/29/2021	REVISED -

**JASPER COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 28

SCALE: SHEET OF SHEETS STA. TO STA.

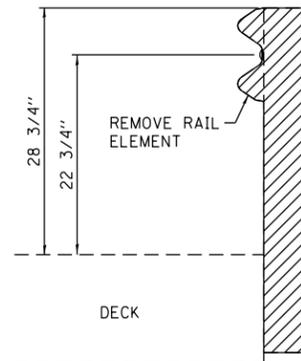
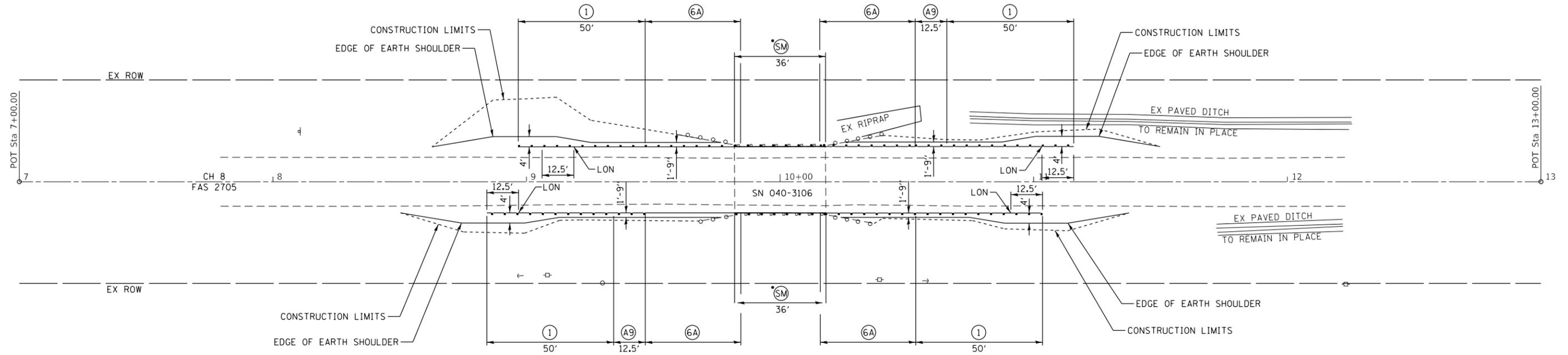
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	23
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				



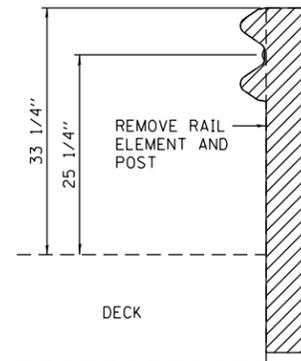
SEC 15, T6N, R8E, 3RD PM

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑥A TRAFFIC BARRIER TERMINAL, TYPE 6A
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓜ STEEL RAILING, TYPE SM
- LON LENGTH OF NEED POINT



NORTH GUARDRAIL
REMOVAL SPECIAL



SOUTH GUARDRAIL
REMOVAL SPECIAL

NOTE 1

EXISTING BRIDGE RAIL ELEMENTS, POSTS, AND HARDWARE SHALL BE REMOVED AS DETAILED. NEW STEEL RAILING, TYPE SM SHALL BE INSTALLED.

CH 8 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING NEW STEEL RAILING, TYPE SM. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

NOTE

SEE STEEL RAILING, TYPE SM DETAIL SHEET IN PLANS.

LOCATION 32			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	834527.52	993193.19
POT	13+00.00	834493.74	993792.24

LOCATION NO. 32
MAJOR COLLECTOR
ADT 200 (2016)
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2519_1-ehb-plan32.dgn

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2519.1
FILE NAME = 2519_1-ehb-plan32.dgn
PLOT SCALE = 40,0000' / 1 in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 32

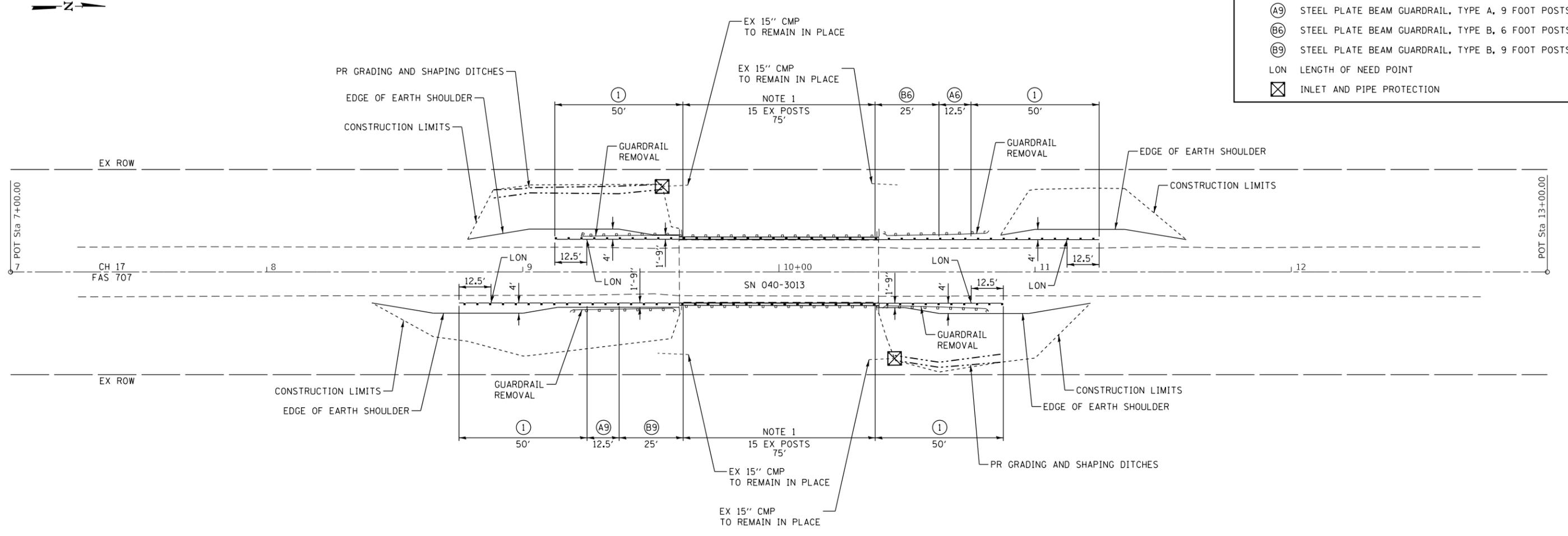
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	24
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				

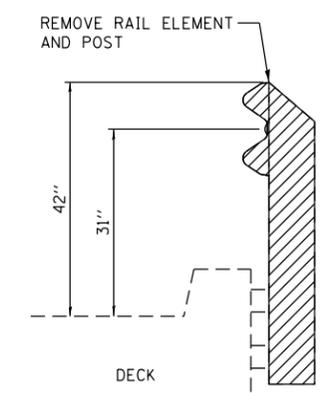
LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓑ6 STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
- Ⓑ9 STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION

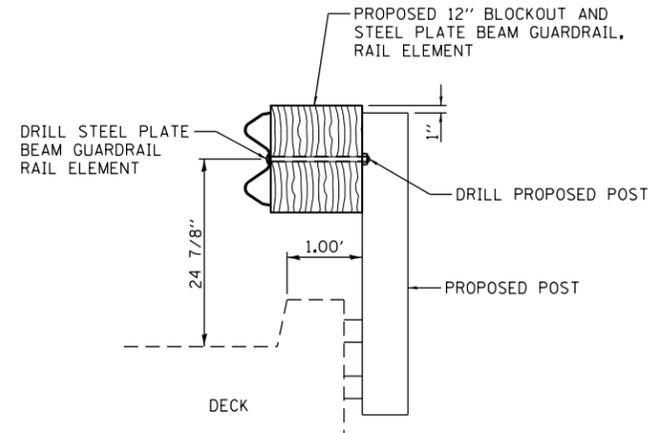
SEC 21, T7N, R8E, 3RD PM



SEC 22, T7N, R8E, 3RD PM



GUARDRAIL REMOVAL SPECIAL



STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)

NOTE 1
EXISTING BRIDGE RAIL ELEMENTS, POSTS AND HARDWARE SHALL BE REMOVED AS DETAILED. NEW 12" BLOCKOUT, AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE NEW POSTS.

CH 17 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS ON THE NEW POSTS. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

LOCATION 33			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	863263.96	989016.84
POT	13+00.00	863863.96	989017.07

LOCATION NO. 33
MAJOR COLLECTOR
ADT 350 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\c\1\25191\25191-1-ehp-plan33.dgn



JOB = 2519.1
FILE NAME = 2519.1-ehp-plan33.dgn
PLOT SCALE = 40,0000' / 1in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

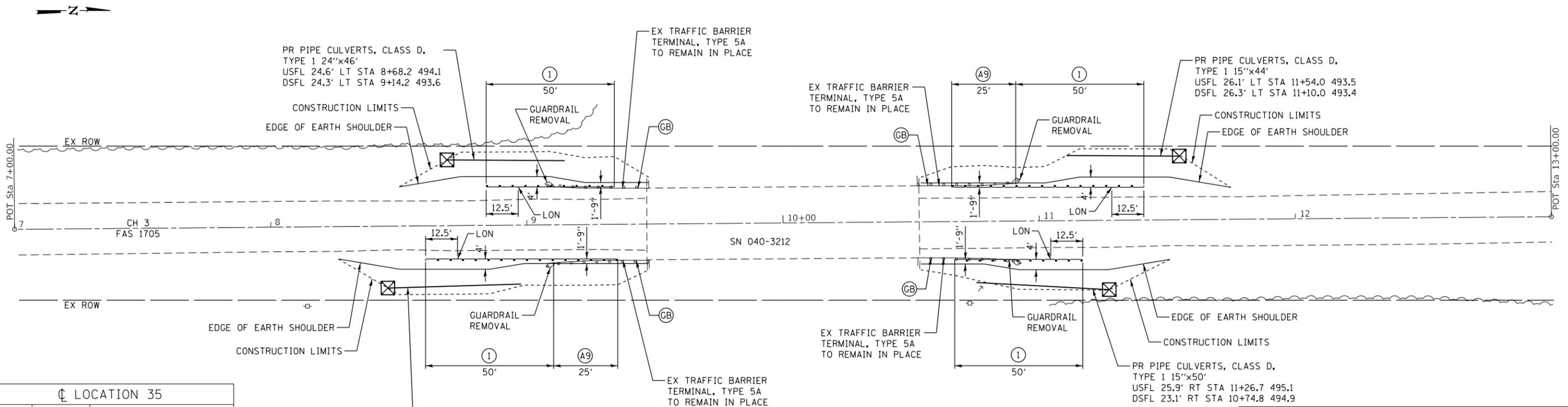
REVISED -
REVISED -
REVISED -
REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 33

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	25
CONTRACT NO. 95917				
ILLINOIS FED. AID PROJECT				



LOCATION 35

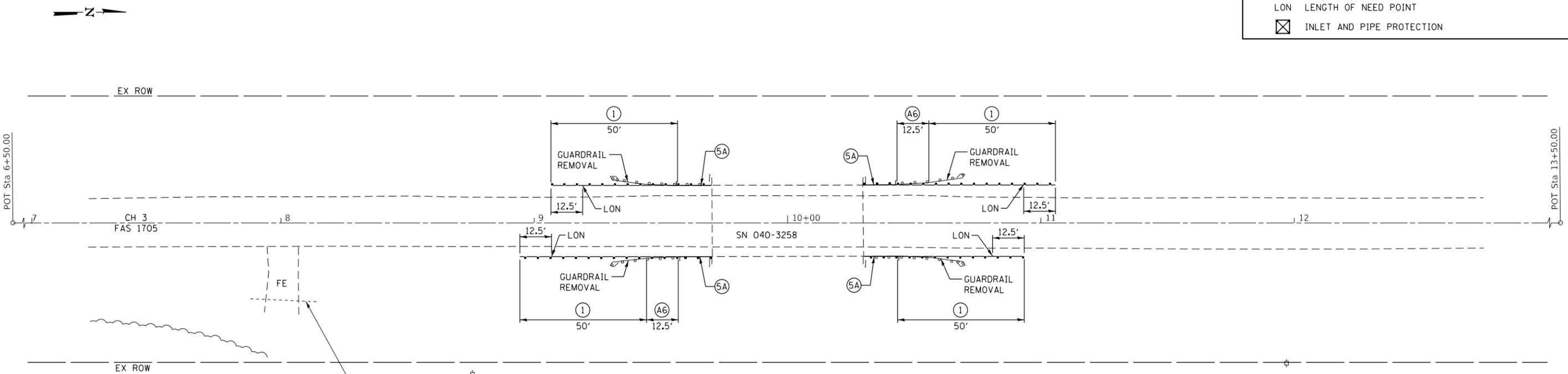
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	862703.26	1019684.43
POT	13+00.00	863303.25	1019686.32

PR PIPE CULVERTS, CLASS D,
TYPE 1 24"x52'
USFL 25.3' RT STA 8+45.1 494.3
DSFL 23.8' RT STA 8+97.1 494.1

LOCATION NO. 35
MAJOR COLLECTOR
ADT 350 (2016)
DESIGN SPEED 40 MPH

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (GB) GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION



LOCATION 34

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+50.00	866079.40	1019655.69
POT	13+50.00	866779.40	1019652.17

EX 12" CMP
TO REMAIN IN PLACE

LOCATION NO. 34
MAJOR COLLECTOR
ADT 325 (2016)
DESIGN SPEED 40 MPH

MODEL Default
FILE Name: 2519_1-shh-plan34_35.dgn



JOB = 2519.1
FILE NAME = 2519_1-shh-plan34_35.dgn
PLOT SCALE = 40,000' / in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 34 & 35

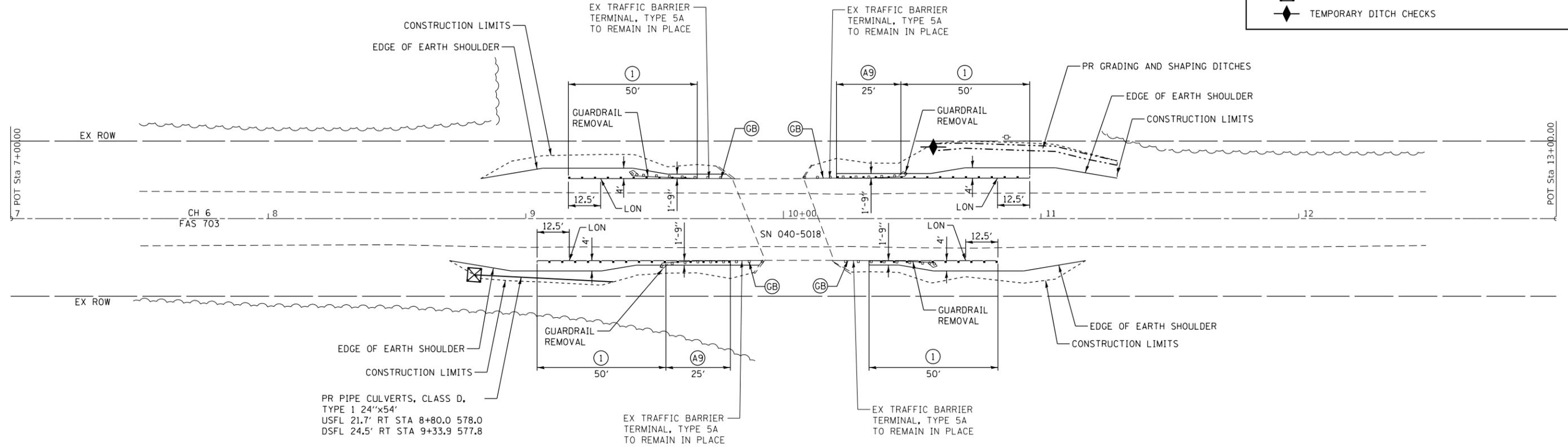
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	26
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⓄB GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- ⊠ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS

SEC 23, T8N, R8E, 3RD PM



SEC 26, T8N, R8E, 3RD PM

LOCATION 37

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	891213.87	997238.99
POT	13+00.00	891164.55	997836.95

LOCATION NO. 37
 MAJOR COLLECTOR
 ADT 500 (2016)
 DESIGN SPEED 50 MPH

MODEL: D:\p1\18-00136-00-GR\18-00136-00-GR-37.dgn
 FILE NAME: 2519_1-ehp-plan37_38.dgn



JOB = 2519.1
 FILE NAME = 2519_1-ehp-plan37_38.dgn
 PLOT SCALE = 40,000' / 1in.
 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 4/29/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

JASPER COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 37

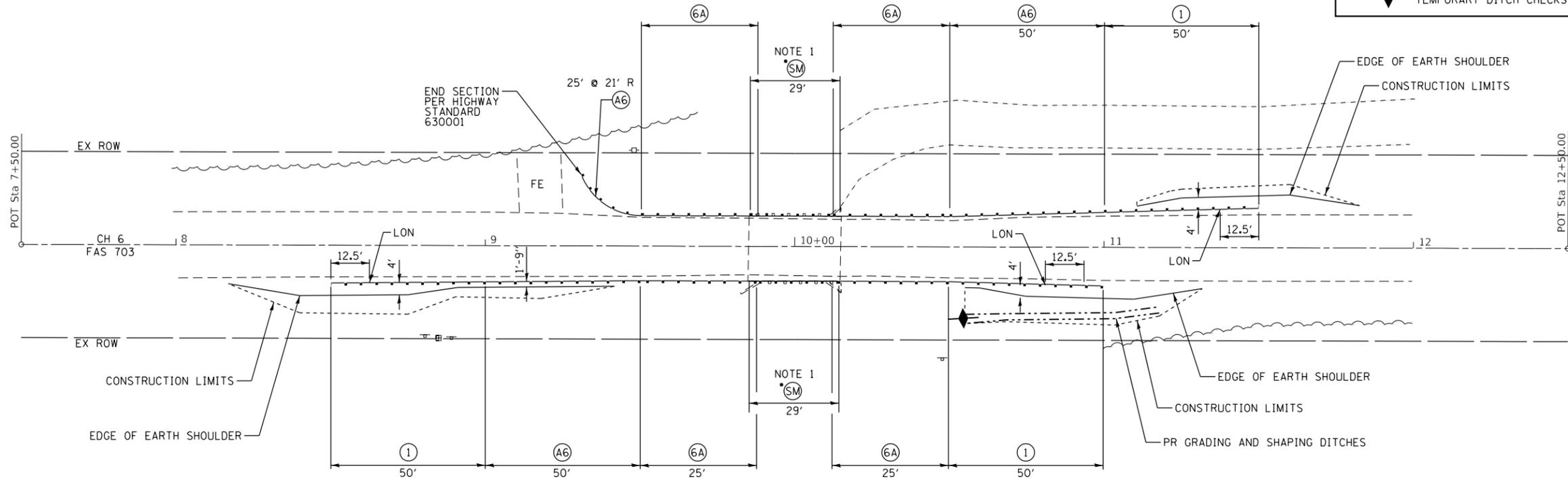
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	27
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	



SEC 23, T8N, R8E, 3RD PM

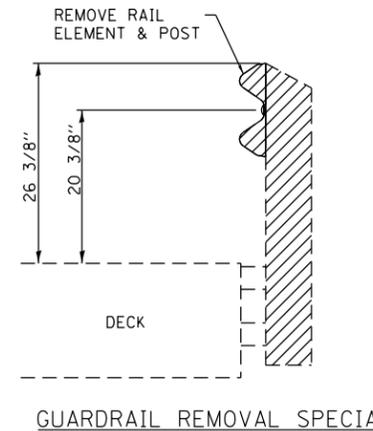
LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
Ⓐ6	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
ⒺA	TRAFFIC BARRIER TERMINAL, TYPE 6A
Ⓜ	STEEL RAILING, TYPE SM
LON	LENGTH OF NEED POINT
◆	TEMPORARY DITCH CHECKS



SEC 26, T8N, R8E, 3RD PM

NOTE 1
 EXISTING BRIDGE RAIL ELEMENTS, POSTS, AND HARDWARE SHALL BE REMOVED AS DETAILED. NEW STEEL RAILING, TYPE SM SHALL BE INSTALLED.
 CH 6 SHALL BE CLOSED FOR REMOVAL OF EXISTING BRIDGE RAILING AND INSTALLING NEW STEEL RAILING, TYPE SM. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

NOTE
 SEE STEEL RAILING, TYPE SM DETAIL SHEET IN PLANS.



LOCATION 38			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+50.00	891299.70	996211.81
POT	12+50.00	891257.27	996710.01

LOCATION NO. 38
 MAJOR COLLECTOR
 ADT 500 (2016)
 DESIGN SPEED 50 MPH

MODEL: D:\c\1\25191\25191-ehb\plan37_38.dgn
 FILE NAME: 25191-ehb\plan37_38.dgn



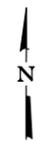
JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 25191-ehb\plan37_38.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / 1in.	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 4/29/2021	REVISED -

**JASPER COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 38

SCALE: SHEET OF SHEETS STA. TO STA.

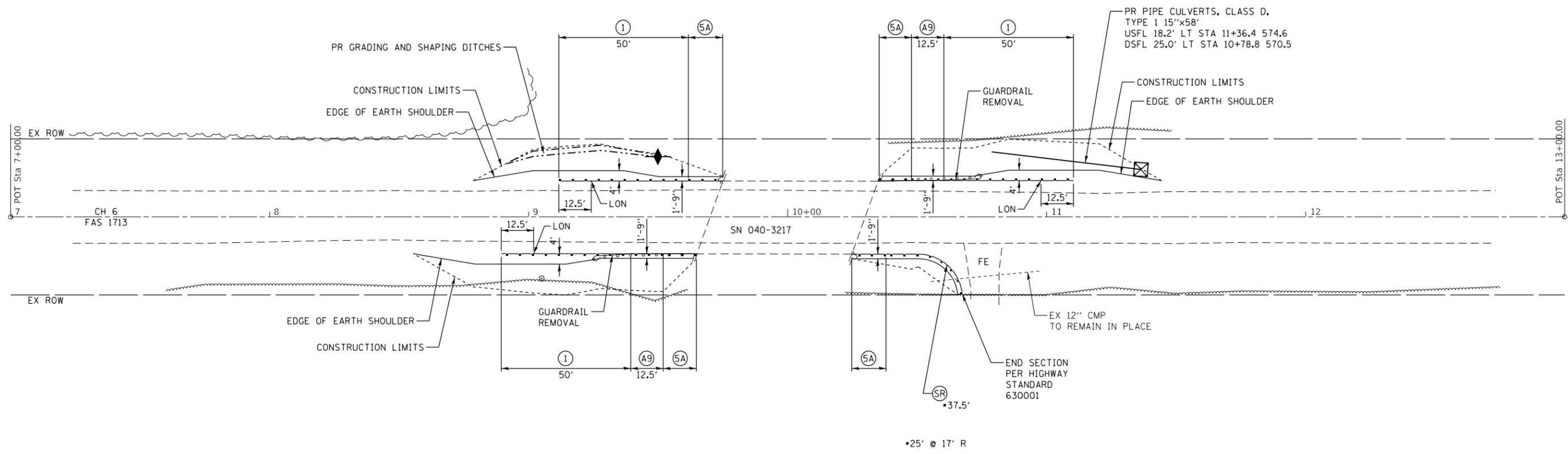
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	28
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	



SEC 16, T8N, R8E, 3RD PM

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⓈR STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS



SEC 21, T8N, R8E, 3RD PM

☐ LOCATION 39

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	897566.50	984544.79
POT	13+00.00	897513.83	985142.47

LOCATION NO. 39
MAJOR COLLECTOR
ADT 350 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\c4\11
FILE NAME: 2519_1-eh-plan39.dgn



JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 2519_1-eh-plan39.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 4/29/2021	REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 39

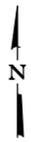
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	29
CONTRACT NO. 95917				

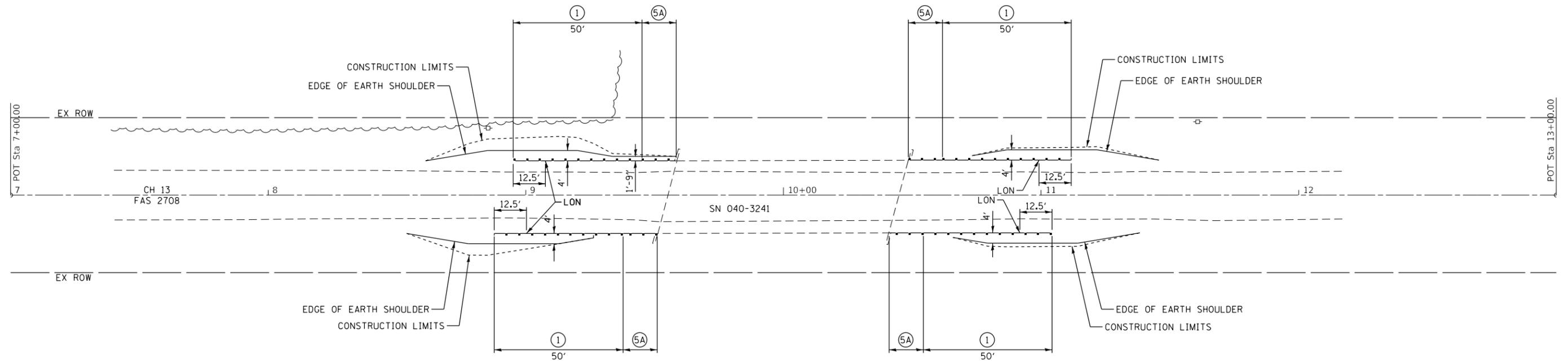
ILLINOIS FED. AID PROJECT

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- LON LENGTH OF NEED POINT



SEC 3, T8N, R9E, 3RD PM



SEC 10, T8N, R9E, 3RD PM

LOCATION 40

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	906517.20	1021568.63
POT	13+00.00	906504.26	1022168.49

LOCATION NO. 40
 MAJOR COLLECTOR
 ADT 225 (2016)
 DESIGN SPEED 40 MPH

MODEL: Default
 FILE NAME: 2519_1-shh-plan40.dgn



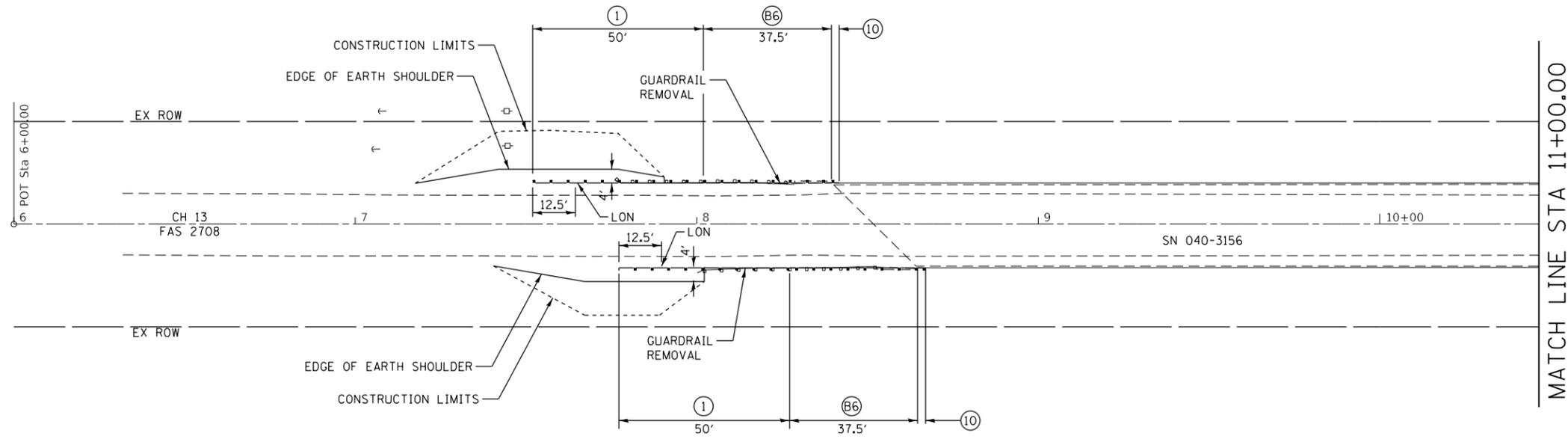
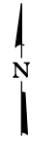
JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 2519_1-shh-plan40.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 4/29/2021	REVISED -

JASPER COUNTY
 GUARDRAIL IMPROVEMENTS

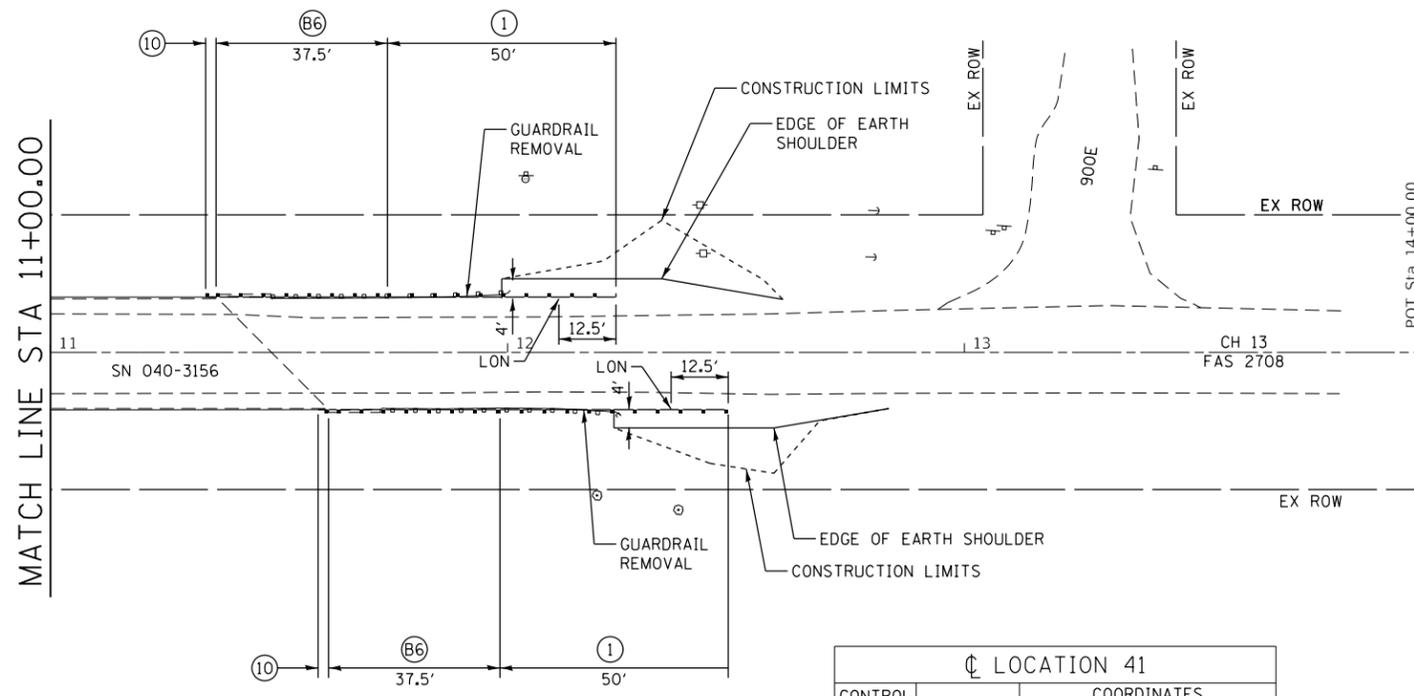
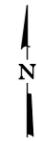
PLAN - LOCATION NO. 40

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	30
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑩	TRAFFIC BARRIER TERMINAL, TYPE 10
Ⓟ	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
LON	LENGTH OF NEED POINT



LOCATION 41			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	906558.87	1019550.15
POT	14+00.00	906543.09	1020350.00

LOCATION NO. 41
 MAJOR COLLECTOR
 ADT 225 (2016)
 DESIGN SPEED 40 MPH

MODEL: Default
 FILE NAME: 2519_1-shh-plan41.dgn



JOB = 2519.1	DESIGNED - CGF	REVISED -
FILE NAME = 2519_1-shh-plan41.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - THF	REVISED -
PLOT DATE = 3/22/2022	DATE - 4/29/2021	REVISED -

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 4/29/2021	REVISED -

**JASPER COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 41

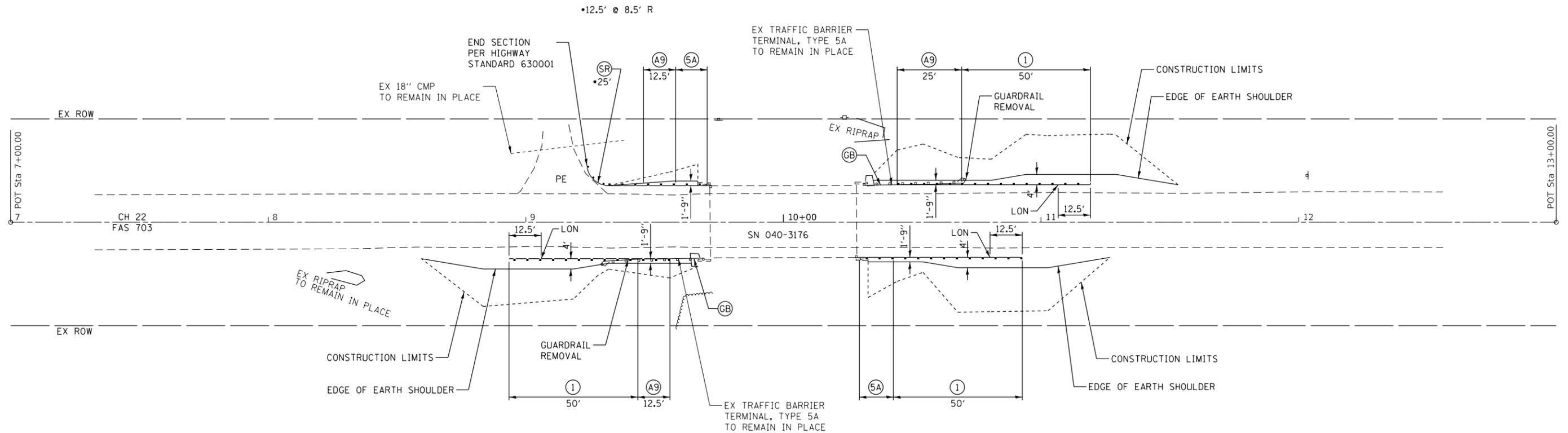
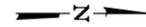
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	31
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⒸB GUARDRAIL BLOCKS
- ⒶR STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
- LON LENGTH OF NEED POINT

SEC 24, T8N, R8E, 3RD PM



SEC 19, T8N, R9E, 3RD PM

Ⓞ LOCATION 42

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	892975.82	1004870.36
POT	13+00.00	893575.82	1004870.36

LOCATION NO. 42
MAJOR COLLECTOR
ADT 300 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\c42.dgn
FILE NAME: 2519_1-shh-plan42.dgn



JOB = 2519.1
FILE NAME = 2519_1-shh-plan42.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 42

SCALE: SHEET OF SHEETS STA. TO STA.

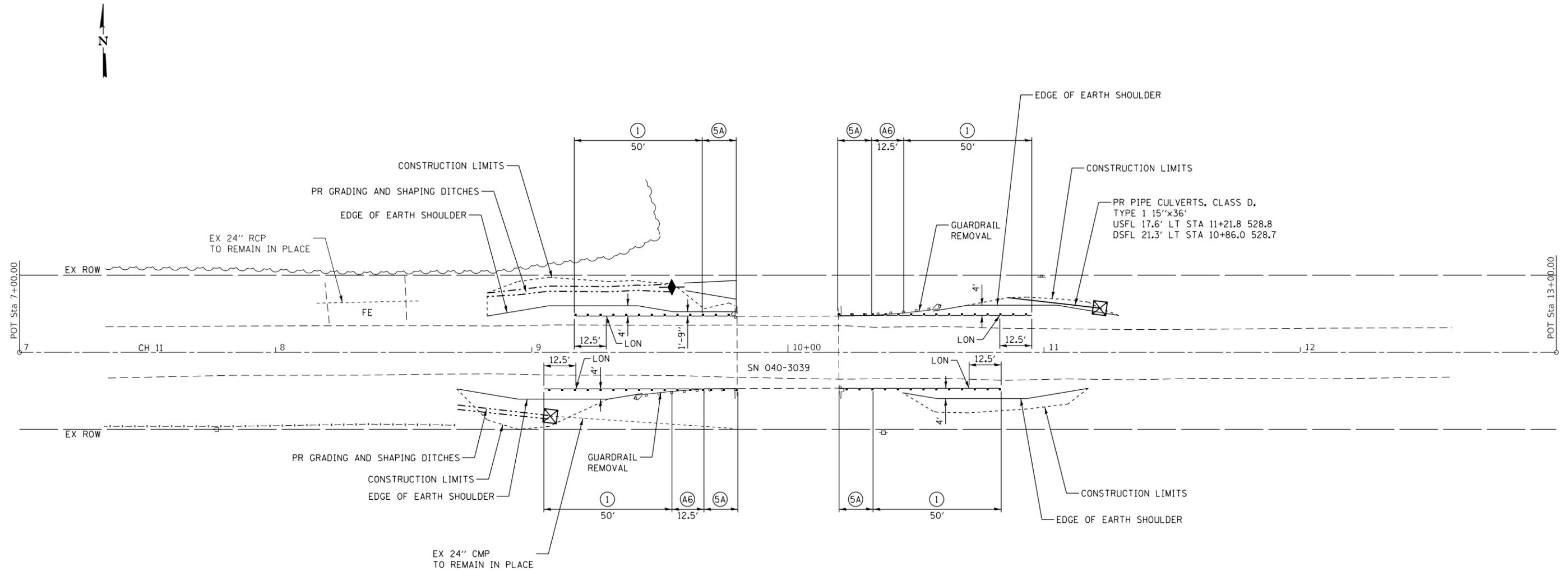
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	32
CONTRACT NO. 95917				

ILLINOIS FED. AID PROJECT

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- Ⓐ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- LON LENGTH OF NEED POINT
- ⊠ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS

SEC 4, T5N, R9E, 3RD PM



SEC 9, T5N, R9E, 3RD PM

LOCATION 43

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	810070.57	1015412.59
POT	13+00.00	810048.67	1016012.19

LOCATION NO. 43
MINOR COLLECTOR
ADT 200 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\d4\1
FILE NAME: 2519_1-eh\plan43.dgn



JOB = 2519.1
FILE NAME = 2519_1-eh\plan43.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

REVISED -
REVISED -
REVISED -
REVISED -

JASPER COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 43

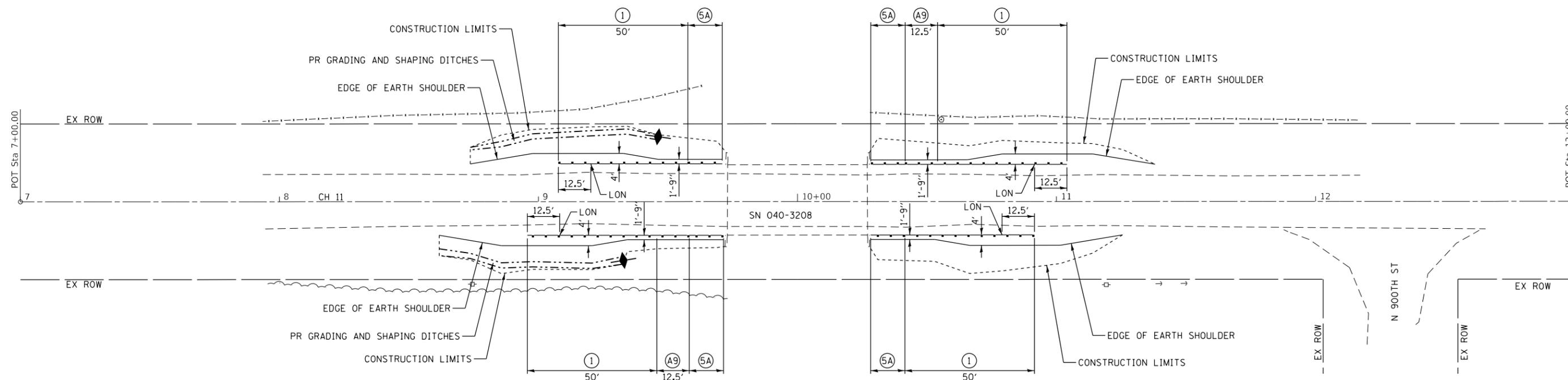
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	33
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- ◆ TEMPORARY DITCH CHECKS

SEC 4, T5N, R9E, 3RD PM



SEC 9, T5N, R9E, 3RD PM

LOCATION 44			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	810057.86	1020036.20
POT	13+00.00	810058.07	1020636.20

LOCATION NO. 44
MINOR COLLECTOR
ADT 200 (2016)
DESIGN SPEED 40 MPH

MODEL: D:\c44\19_1-shrt-plan44.dgn

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2519.1
FILE NAME = 2519.1-shrt-plan44.dgn
PLOT SCALE = 40,0000 / in.
PLOT DATE = 3/22/2022

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 4/29/2021

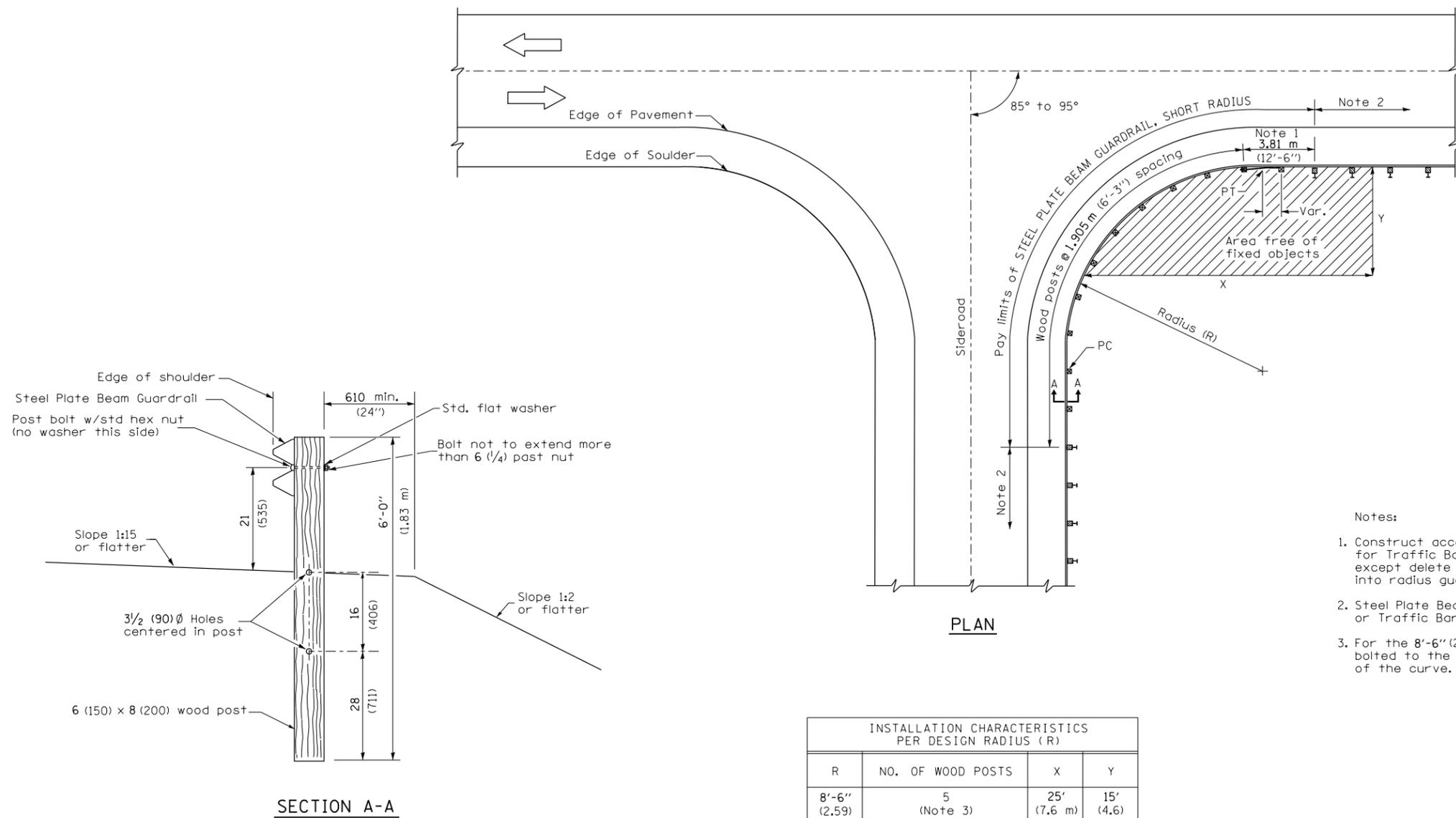
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REVISED -

**JASPER COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 44

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	34
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	



- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
 2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
 3. For the 8'-6" (2.59 m) radius, the rail is not bolted to the post located at the midpoint of the curve.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (Note 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default
 FILE NAME: 2519.1-guardrail_short_radius.dgn



JOB = 2519.1
 FILE NAME = 2519.1-guardrail_short_radius.dgn
 PLOT SCALE = 400.0000" / 1 in.
 PLOT DATE = 3/22/2022

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 04/29/2021

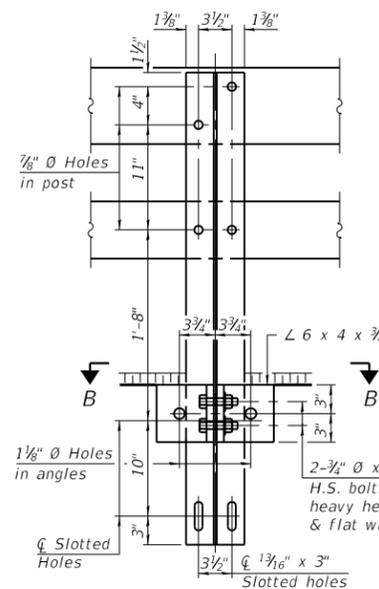
REVISED -
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 REVISED -
 REVISED -

JASPER COUNTY GUARDRAIL IMPROVEMENTS

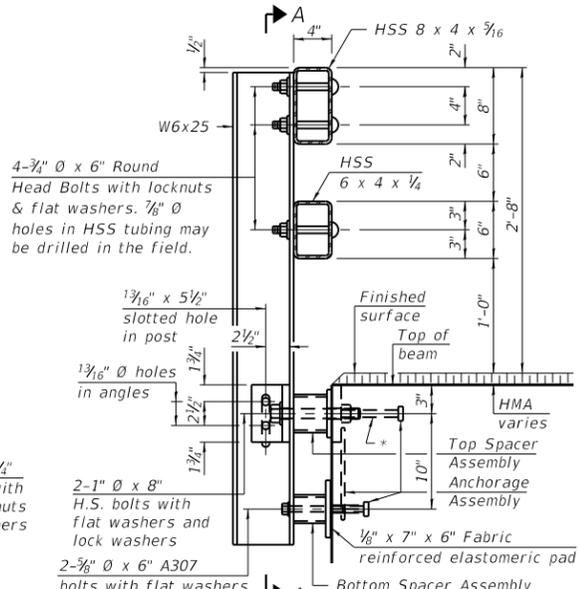
STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00136-00-GR	JASPER	36	35
CONTRACT NO. 95917				
		ILLINOIS	FED. AID PROJECT	

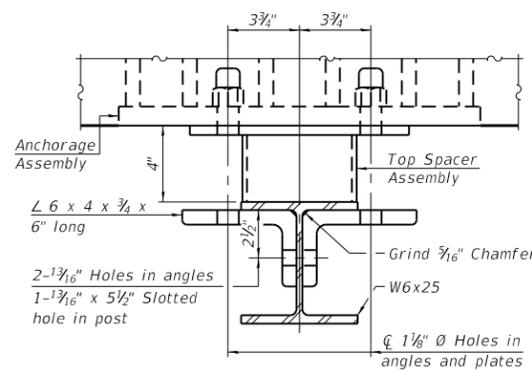


SECTION A-A

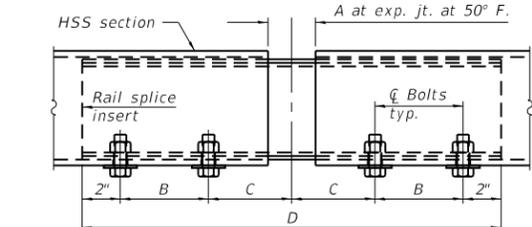


SECTION AT RAIL POST

* The outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchorage assembly. The anchorage studs may be bent down 1/2\"/>



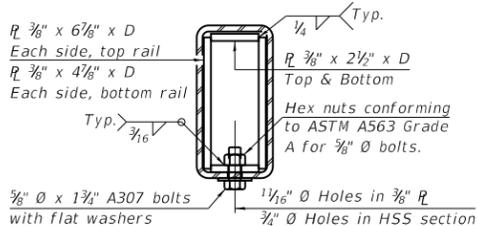
SECTION B-B



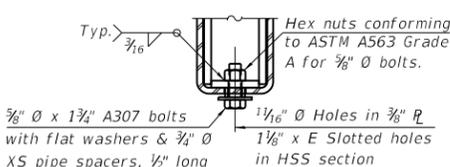
RAIL SPLICE ELEVATION

RAILING CRITERIA

MASH 2016 Test Level	2
Railing Weight (plf)	90
Min F'c (psi)	5,000
Max Post Spacing	6'-3"
HMA thickness range (in)	1 1/4" - 3 1/2"



SECTION AT RAIL SPLICE

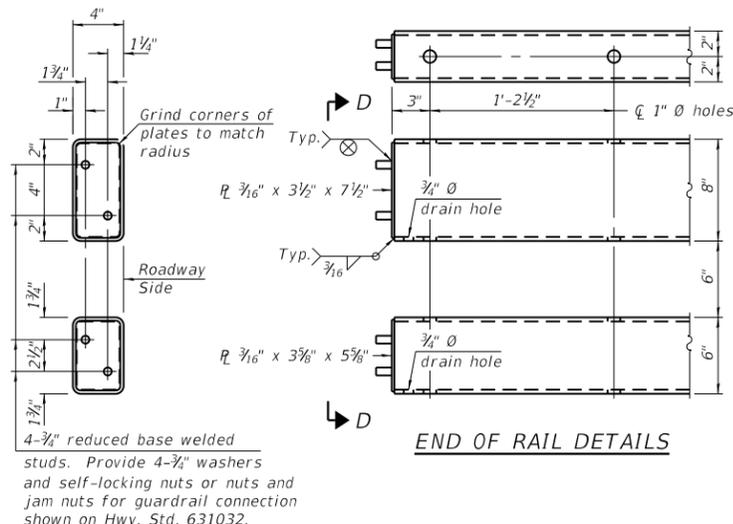


RAIL SPLICE CONNECTION AT EXPANSION JT.

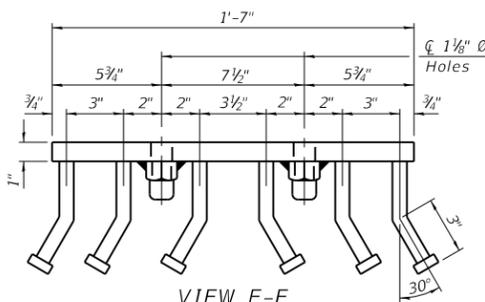
SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/2"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/2"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 3/16"

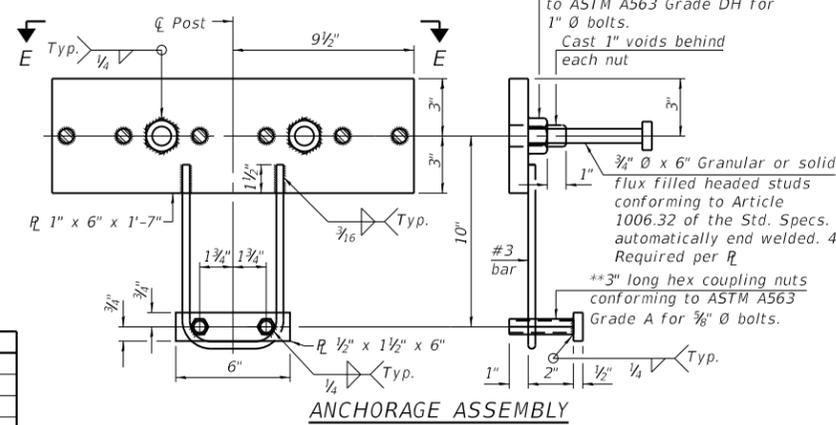
T = total movement along centerline of roadway at expansion joint.



VIEW D-D



VIEW E-E



ANCHORAGE ASSEMBLY

** Threaded areas shall be plugged or blocked off during casting of concrete.

Notes:

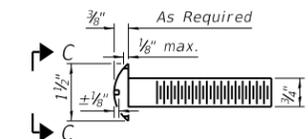
A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type SM.

All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.

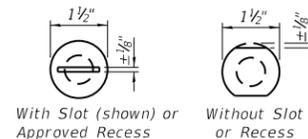
All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.

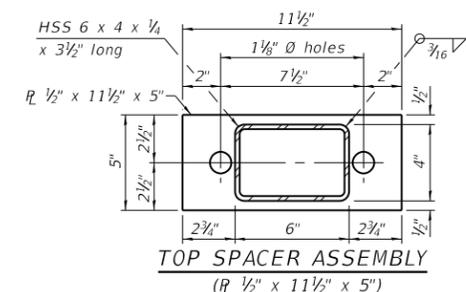
All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



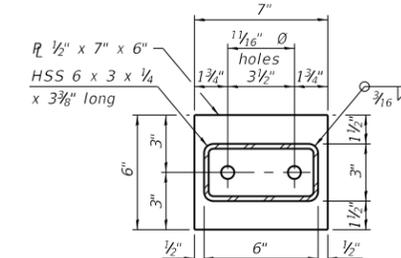
ROUND HEAD BOLT DETAIL



VIEW C-C



TOP SPACER ASSEMBLY (R 1/2" x 11 1/2" x 5")



BOTTOM SPACER ASSEMBLY (R 1/2" x 7" x 6")

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	130

STEEL RAILING, TYPE SM STRUCTURE NO.

T = Total movement at expansion joint as shown on the design plans.