

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	1
FEDERAL AID PROJECT		ILLINOIS	CONTRACT NO. 93734	

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

11-08-2019 LETTING ITEM 078

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED HIGHWAY SAFETY IMPROVEMENT PROJECT

VARIOUS ROUTES
SECTION 17-00067-00-SP
PROJECT GZFT (566)
MASON COUNTY
C-96-004-20

UTILITY TYPE:
GAS /ELECTRIC
AMERENCILCO - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
COMMUNICATIONS
WINDSTREAM KDL/MCLEOD USA
ATT: LOCATE DESK
PHONE: (800) 289-1901

UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287

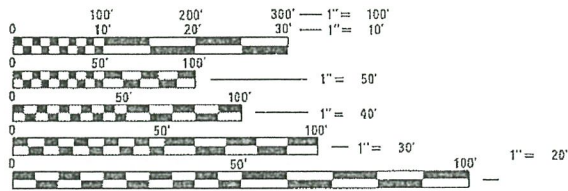
UTILITY TYPE:
ELECTRIC
MENARD ELECTRIC COOP
ATT: BRADY SMITH
PHONE: (217) 632-7746

UTILITY TYPE:
GAS /ELECTRIC
AMEREN CIPS - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
TELEPHONE /CABLE
CASS CO TELEPHONE & CABLE
ATT: LANCE ALLEN
PHONE: (217) 371-3605
(217) 452-7725

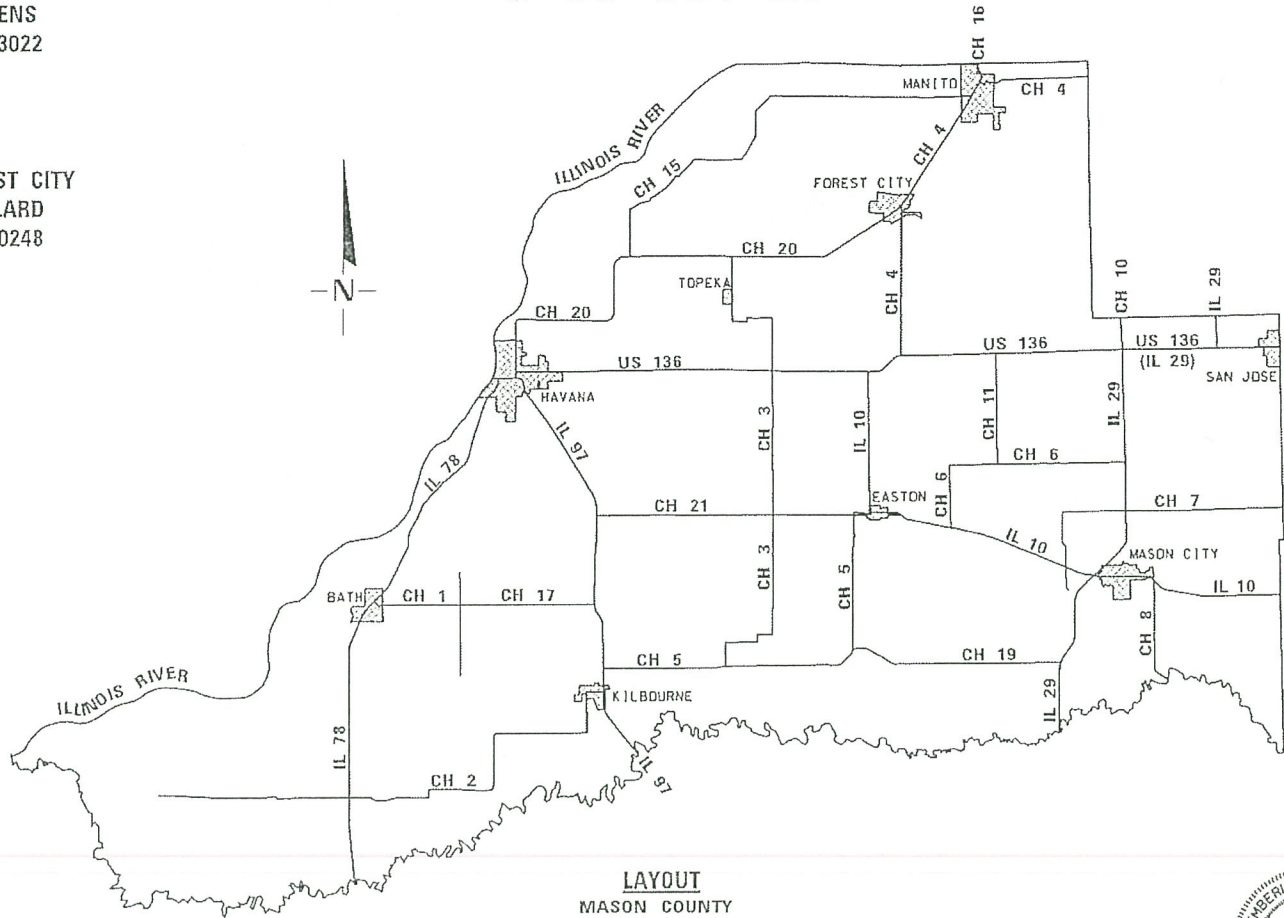
UTILITY TYPE:
TELEPHONE /CABLE
CASS CO TELEPHONE & CABLE
ATT: DAVID JURGENS
PHONE: (217) 452-3022

UTILITY TYPE:
ENGINEERING
VILLAGE OF FOREST CITY
ATT: CALVIN WILLARD
PHONE: (309) 202-0248



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.

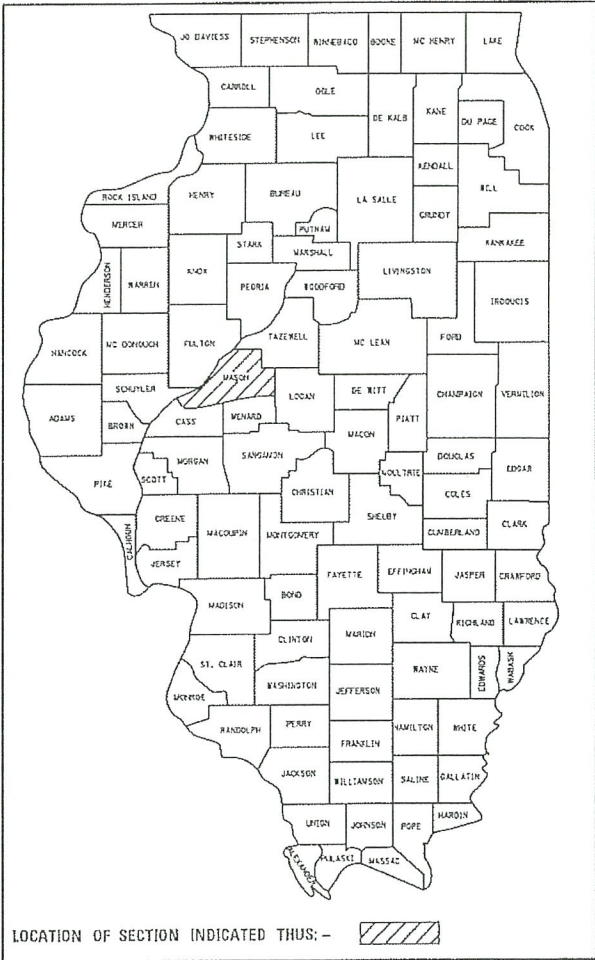
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



LAYOUT
MASON COUNTY
COUNTY WIDE
(NOT TO SCALE)



Kimberly S. Cummins 8-1-19
ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/19)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED July 29 . 20 19
[Signature]
MASON COUNTY ENGINEER

PASSED 8-28 . 20 19
[Signature]
DISTRICT SIX ENGINEER OF
LOCAL ROADS AND STREETS

RELEASED FOR
BID BASED ON
LIMITED REVIEW 8-28 . 20 19
[Signature] P. H. M. C. E.
REGION FOUR ENGINEER

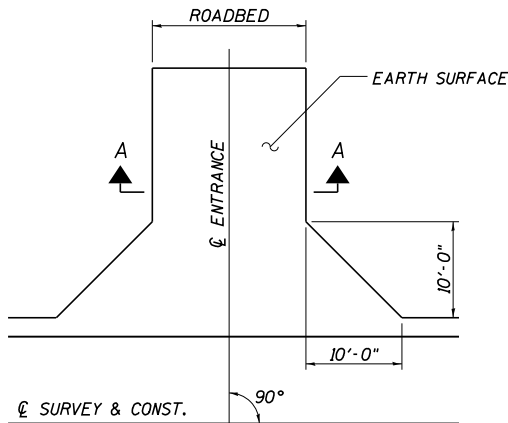
PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

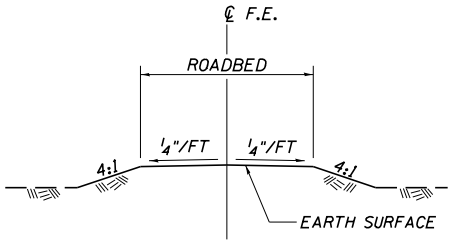
SHEET NO.	TITLE
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND ENTRANCE DETAILS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL CROSS SECTIONS
7-8	SCHEDULES OF QUANTITIES
9	LOCATION MAPS
10-23	PLAN SHEETS
24	STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS
25	RETAINING WALL, SPECIAL DETAIL
26-62	CROSS SECTIONS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542401-03	METAL FLARED END SECTION FOR PIPE CULVERT
610001-08	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
635001-02	DELINEATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 26-3	STEEL PLATE BEAM GUARDRAIL 29" HEIGHT
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A



FIELD ENTRANCE DETAIL



SECTION A-A
EARTH FE

GENERAL NOTES

- THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN MASON COUNTY. THE WORK INCLUDED IN THE SECTION CONSISTS OF VARIOUS TYPES OF GUARDRAIL REMOVAL, REPLACEMENT, AND ALL OTHER WORK NECESSARY TO COMPLETE THE PROJECT.
- NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR. APPROPRIATE STANDARDS ARE INCLUDED IN THE PLANS AND CONTRACT DOCUMENTS.
- ILLINOIS STATE LAW REQUIRES 48 HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.I.L.I.E. (PHONE 800-892-0123) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.
- WHEN NO WORK IS BEING PERFORMED, THE FLAGGERS WILL NOT BE REQUIRED. IF THE FLAGGERS ARE NOT PRESENT, THE FLAGGERS SIGNS SHALL BE REMOVED OR COVERED.
- 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.
- 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.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
- ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.
- 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.
- REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS, NO LOCATIONS SHALL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- FURNISHED EXCAVATION, AS SHOWN, IS FOR CONSTRUCTING 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.
- HEAVY DUTY EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES STEEPER THAN 1:4.
- 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 MASON COUNTY HIGHWAY DEPARTMENT 29890 CR 1150N, MASON CITY, IL.
- FILLING OF EXISTING HOLES FROM EXISTING GUARDRAIL REMOVAL SHALL BE INCLUDED IN THE COST OF GUARDRAIL REMOVAL IN ACCORDANCE WITH ARTICLE 632 OF THE STANDARD SPECIFICATIONS.
- ALL ELEVATIONS REFER TO THE NAVD88 VERTICAL DATUM UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. THE LOCATIONS OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND ARE INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS. ALL UTILITIES AND PRIVATELY OWNED STREET LIGHTS AND SIGNS THAT REQUIRED RELOCATION SHALL BE MOVED BY OTHERS.
- ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITIES.
- MIXTURE REQUIREMENTS:
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

LOCATION	LOCATION NO. 13	
MIXTURE USE	HMA SHOULDER BOTTOM 4 1/2"	HMA SHOULDER TOP 1 1/2"
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ NDESIGN = 50	4.0 @ NDESIGN = 50
MIX COMP(GRADATION)	IL 19.0	IL 9.5 FG
FRICTION AGGREGATE	N.A.	MIX "C"
MIXTURE WEIGHT	112	112
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	N.A.	N.A.

APPLICATION RATES USED IN QUANTITY CALCULATIONS

GRANULAR MATERIALS _____ 2.05 TON/CU YD
RIPRAP _____ 1.5 TON/CU YD

COMMITMENTS

NONE AT THIS TIME

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND ENTRANCE DETAILS	VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2536.1-sht-gen.dgn	DRAWN - SJS	REVISED -				17-00067-00-SP	MASON	62	2
	PLOT SCALE = 100.0000 ' / in.	CHECKED - NAK	REVISED -			CONTRACT NO. 93734				
	PLOT DATE = 8/20/2019	DATE - 7/23/2018	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

				CONSTRUCTION TYPE CODE	
				HSIP FUNDS 90% FEDERAL 10% LOCAL	
				ROADWAY	
				0021	
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL
Δ	20400800	FURNISHED EXCAVATION	CU YD	2,340	2,340
Δ	21400100	GRADING AND SHAPING DITCHES	FOOT	175	175
Δ	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	5,790	5,790
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	143	143
	28000305	TEMPORARY DITCH CHECKS	FOOT	24	24
Δ	28000400	PERIMETER EROSION BARRIER	FOOT	4,596	4,596
	28000500	INLET AND PIPE PROTECTION	EACH	5	5
Δ	28100207	STONE RIPRAP, CLASS A4	TON	34	34
Δ	28200200	FILTER FABRIC	SQ YD	51	51
Δ	44000300	CURB REMOVAL	FOOT	412	412
Δ	44004250	PAVED SHOULDER REMOVAL	SQ YD	276	276
Δ	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	259	259
Δ	48300100	PORTLAND CEMENT CONCRETE SHOULDERS 6"	SQ YD	17	17
Δ	50105220	PIPE CULVERT REMOVAL	FOOT	30	30

* SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES

				CONSTRUCTION TYPE CODE	
				HSIP FUNDS 90% FEDERAL 10% LOCAL	
				ROADWAY	
				0021	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL	
Δ 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	107	107	
Δ 542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	54	54	
Δ 54262718	METAL FLARED END SECTIONS 18"	EACH	2	2	
Δ 60100965	PIPE DRAINS 18"	FOOT	16	16	
Δ 60500060	REMOVING INLETS	EACH	2	2	
Δ 61000335	TYPE G INLET BOX, STANDARD 610001	EACH	2	2	
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	5,025.0	5,025.0	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	31	31	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	48	48	
63200310	GUARDRAIL REMOVAL	FOOT	6,671	6,671	
67100100	MOBILIZATION	L SUM	1	1	
* 70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	54	54	

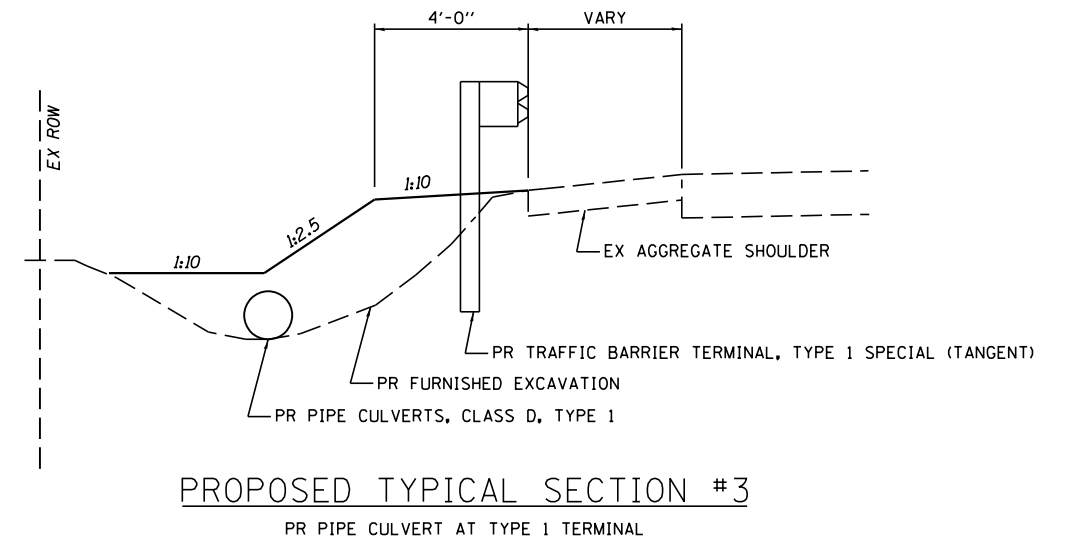
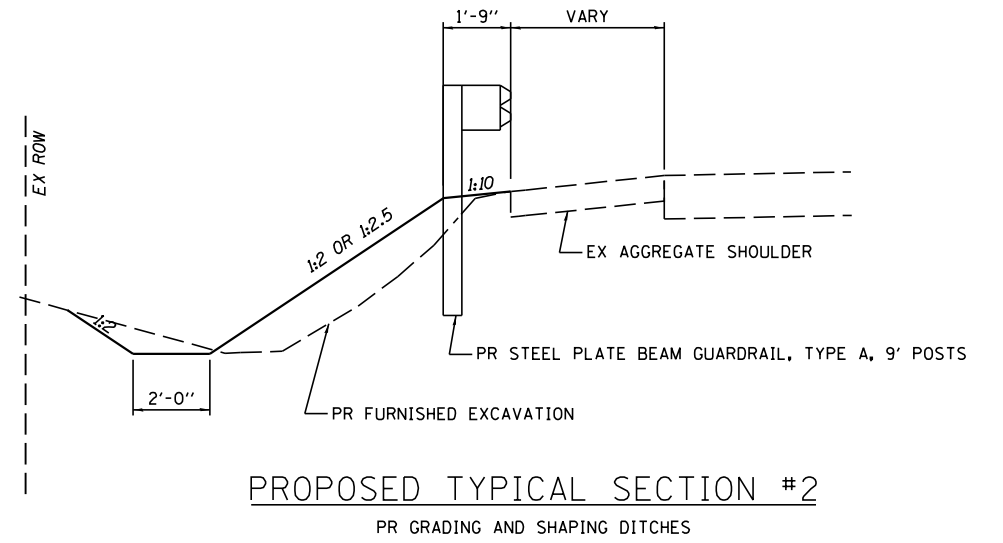
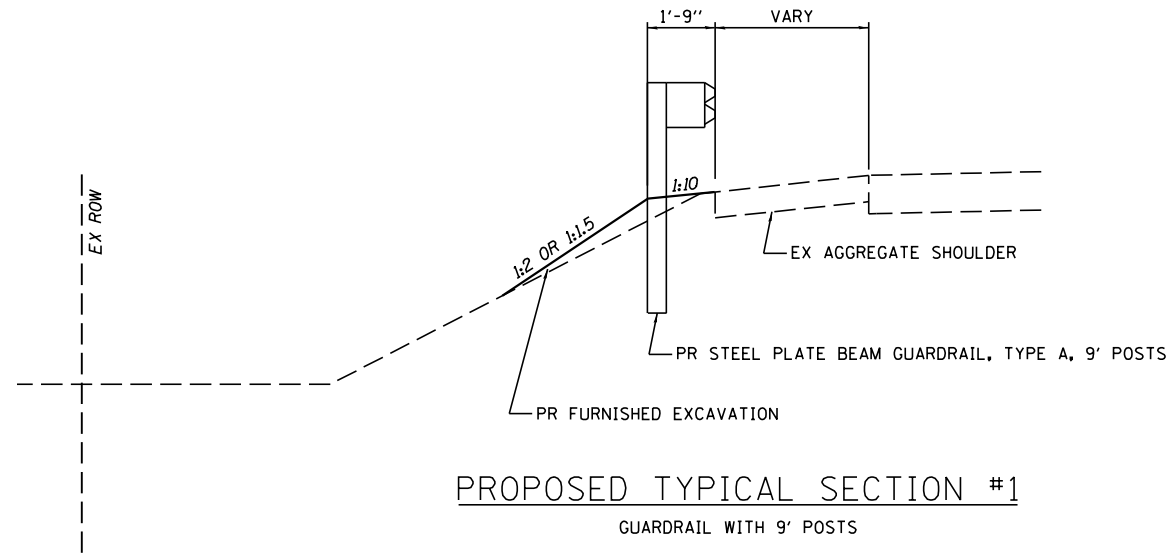
* SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES

				CONSTRUCTION TYPE CODE	
				HSIP FUNDS 90% FEDERAL 10% LOCAL	
				ROADWAY	
				0021	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL	
78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	187	187	
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	70	70	
Δ *	X2501000 SEEDING, CLASS 2 (SPECIAL)	ACRE	1.75	1.75	
Δ *	X4811900 AGGREGATE SHOULDERS (SPECIAL)	TON	533	533	
*	X6300210 GUARDRAIL BLOCKS	EACH	25	25	
*	X6330725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	50.0	50.0	
*	XZ127902 RETAINING WALL, SPECIAL	SQ FT	3,875	3,875	
Δ *	Z0020800 EROSION CONTROL CURB	FOOT	363	363	
Δ *	Z0027800 GEOTECHNICAL FABRIC	SQ YD	1,723	1,723	
# *	Z0076600 TRAINEES	HOUR	500	500	
# *	Z0076604 TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

* SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS

0042



CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	TYPICAL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2536.1-shr-typical.dgn	DRAWN - SJS	REVISED -						17-00067-00-SP	MASON	62	6
	PLOT SCALE = 5.0000' / in.	CHECKED - NAK	REVISED -					CONTRACT NO. 93734				
	PLOT DATE = 8/2/2019	DATE - 7/23/2018	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

EARTHWORK SCHEDULE

LOCATION	QUADRANT	FURNISHED EXCAVATION
		CU YD
4	SE	35
5	LT	15
6	SW	5
6	NW	5
6	SE	5
6	NE	25
7	RT	205
8	SW	5
9	SW	5
9	NE	5
9	SE	5
10	NW	5
10	SE	10
11	LT	115
12	SW	5
12	SE	65
12	NW	60
12	NE	5
13	LT	475
13	RT	265
15	RT	225
16	LT	55
16	RT	135
17	LT	65
20	LT	330
20	RT	185
23	NE	10
24	NE	15

TOTAL 2,340

GUARDRAIL SCHEDULE

LOCATION	QUADRANT	GUARDRAIL REMOVAL	SPBGR, TY A, 9 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	TBT, TY 1 (SPECIAL) TANGENT	TBT, TY 2	TBT, TY 5A	GUARDRAIL REFLECTORS, TY B	BARRIER WALL REFLECTORS, TY C	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL BLOCKS
					50'						
		FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
3	SW	63.25	25.0		1		1	4	3	1	
3	SE	63.25	12.5		1		1	4	3	1	
4	NW						1				
4	SW								3		10
4	NE								3		10
4	SE		12.5		1		1	4		1	
5	LT	62.50			2					2	
6	SW	15.75	12.5				1	4	3		
6	NW	15.75	12.5				1	4			
6	SE	15.75	12.5				1	4	3		
6	NE	15.75	12.5		1		1	4		1	
7	RT	2,350.00	2250.0		2			29		2	
8	NW	38.25	12.5	25.0		1	1	4	3		
8	NE	51.25	25.0		1		1	4		1	
8	SW	38.25	75.0		1		1	4	3	1	
8	SE	51.25	12.5		1		1	4		1	
9	NW	38.25	12.5		1		1	4	3	1	
9	SW	38.25	12.5		1		1	4	3	1	
9	NE	38.25	12.5		1		1	4		1	
9	SE	38.25	12.5		1		1	4		1	
10	NW	38.25	12.5		1		1	4	3	1	
10	SW	50.75	12.5		1		1	4	3	1	
10	NE	50.75	12.5		1		1	4		1	
10	SE	37.50	25.0		1		1	4		1	
11	LT	337.50	237.5		2			5		2	
12	SW	38.25	12.5	25.0			1	4			
12	SE	51.25	12.5		3		1	4		3	
12	NW	38.25	62.5		1		1	4		1	
12	NE	38.25	12.5		1		1	4		1	
13	LT	462.50	362.5		2			5		2	
13	RT	400.00	300.0		2			4		2	
15	RT	175.00	75.0		2			4		2	
16	LT	100.00	12.5		2			4		2	
16	RT	200.00	100.0		2			4		2	
17	LT	350.00	250.0		2			4		2	
20	LT	250.00	150.0		2			4		2	
20	RT	225.00	125.0		2			4		2	
21	NW	351.25	287.5		1		1	4	8	1	
21	NE	351.25	287.5		1		1	4	8	1	
22	SW	38.25			1		1		3	1	
22	SE							1		1	
22	NE	38.25	37.5		1		1	4		1	
22	NW								3	1	
23	NE	38.25	37.5		1		1	4		1	
23	NW								3	1	
23	SW							3	3		5
23	SE									1	
24	NE	38.25	25.0		1		1	4		1	
24	NW								3	1	
24	SW	38.25	50.0			1	1	4			
24	SE								3	1	
TOTAL		6,671	5,025.0	50.0	48	2	31	187	70	54	25

EROSION CONTROL SCHEDULE

LOCATION	QUADRANT	GRADING AND SHAPING DITCHES	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	EROSION CONTROL CURB
		FOOT	SQ YD	POUND	FOOT	FOOT	FOOT
4	SE		127.68	3		104	
5	LT		65.46	1		54	
6	SW			1.7		30	
6	NW			2.1		29	
6	SE			1.4		22	
6	NE		85.09	2.3		116	
7	RT	73	358.57	11.8	8	421	
8	SW		19.26	0.8		73	
9	SW	25		1.3	8		
9	NE		12.63	0.6		52	
9	SE		23.46	1.1		82	
10	NW			1.3		34	
10	SE		32.67	1.2		99	
11	LT	72	553.95	13.1	8	347	
12	SW			0.2		25	
12	SE	5	160.73	4.5		81	
12	NW		91.72	2.6		33	
12	NE		28.41	1.1		83	
13	LT		935.51	19.8		520	362.5
13	RT		671.79	14.9		428	
15	RT		641.04	13.6		273	
16	LT		231.24	5		189	
16	RT		293.08	6.5		302	
17	LT		205.45	4.8		357	
20	LT		587.65	12.7		329	
20	RT		529.29	11.7		311	
23	NE		69.05	1.4		122	
24	NE		66.01	1.7		80	
TOTAL		175	5,789.74	143	24	4,596	362.5
USE			5,790	143		4,596	363

DRAINAGE SCHEDULE

LOCATION	QUADRANT	INLET AND PIPE PROTECTION	PIPE CULVERTS, CLASS D, TY 1 15"	PIPE CULVERTS, CLASS D, TY 1 18"	PIPE DRAINS 18"	METAL FLARED END SECTIONS 18"	PIPE CULVERT REMOVAL	REMOVING INLETS	TYPE G INLET BOX, STANDARD 610001
		EACH	FOOT	FOOT	FOOT	EACH	FOOT	EACH	EACH
9	SW	1	45				30		
12	SE	3	62						
12	NW	1		54					
13	LT				16	2		2	2
TOTAL		5	107	54	16	2	30	2	2

RETAINING WALL SCHEDULE - LOCATION 7

LOCATION	RETAINING WALL, SPECIAL	GEOTECHNICAL FABRIC	AGGREGATE SHOULDERS (SPECIAL)
	SQ FT	SQ YD	TON
STA 8+62.00 TO STA 28+00.00 RT	3,875.00	1,722.67	533.30
TOTAL	3,875.00	1,722.67	533.30
ROUNDED TOTAL	3,875	1,723	533

CURB REMOVAL SCHEDULE

LOCATION	QUADRANT	CURB REMOVAL
		FOOT
13	LT	412
TOTAL		412

SHOULDER SCHEDULE

LOCATION	QUADRANT	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS, 6"	PCC SHOULDERS 6"
		SQ YD	SQ YD	SQ YD
13	LT	275.67	258.78	16.67
TOTAL		275.67	258.78	16.67
USE		276	259	17

RIPRAP SCHEDULE

LOCATION	QUADRANT	STATION	STONE RIPRAP, CLASS A4	FILTER FABRIC
			TON	SQ YD
13	LT	STA 8+84	18.36	27.54
13	LT	STA 9+23	15.42	23.13
TOTAL			33.78	50.67
USE			34	51

SEEDING SCHEDULE

LOCATION	QUADRANT	SEEDING, CLASS 2 (SPECIAL)
		ACRE
4	SE	0.030
5	LT	0.010
6	SW	0.017
6	NW	0.021
6	SE	0.014
6	NE	0.023
7	RT	0.118
8	SW	0.008
9	SW	0.013
9	NE	0.006
9	SE	0.011
10	NW	0.013
10	SE	0.012
11	LT	0.131
12	SW	0.002
12	SE	0.045
12	NW	0.026
12	NE	0.011
13	LT	0.198
13	RT	0.149
15	RT	0.136
16	LT	0.050
16	RT	0.065
17	LT	0.048
20	LT	0.127
20	RT	0.117
23	NE	0.014
24	NE	0.017
TOTAL		1.43
ROUNDED TOTAL		1.75



(NOT TO SCALE)

**MASON COUNTY
GUARDRAIL IMPROVEMENTS**

**LOCATION MAP
MASON COUNTY**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	9
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE Name: 2536.1-shh-pln3_4.dgn

CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1

FILE NAME = 2536.1-shh-pln3_4.dgn

PLOT SCALE = 40,0000"/In.

PLOT DATE = 9/18/2019

DESIGNED - CGF

DRAWN - SJS

CHECKED - NAK

DATE - 8/14/2018

REVISED -

REVISED -

REVISED -

REVISED -

**MASON COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATIONS 3 & 4

SCALE:

SHEET

OF

SHEETS

STA.

TO STA.

ROUTE
VARIOUS

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

17-00067-00-SP

MASON

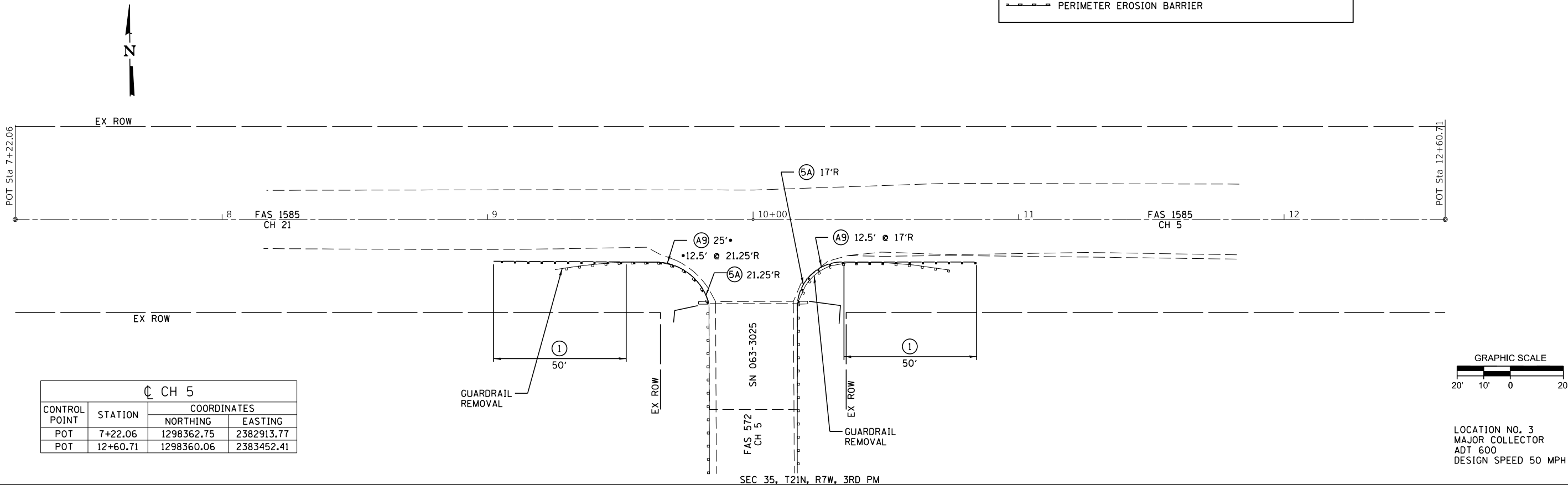
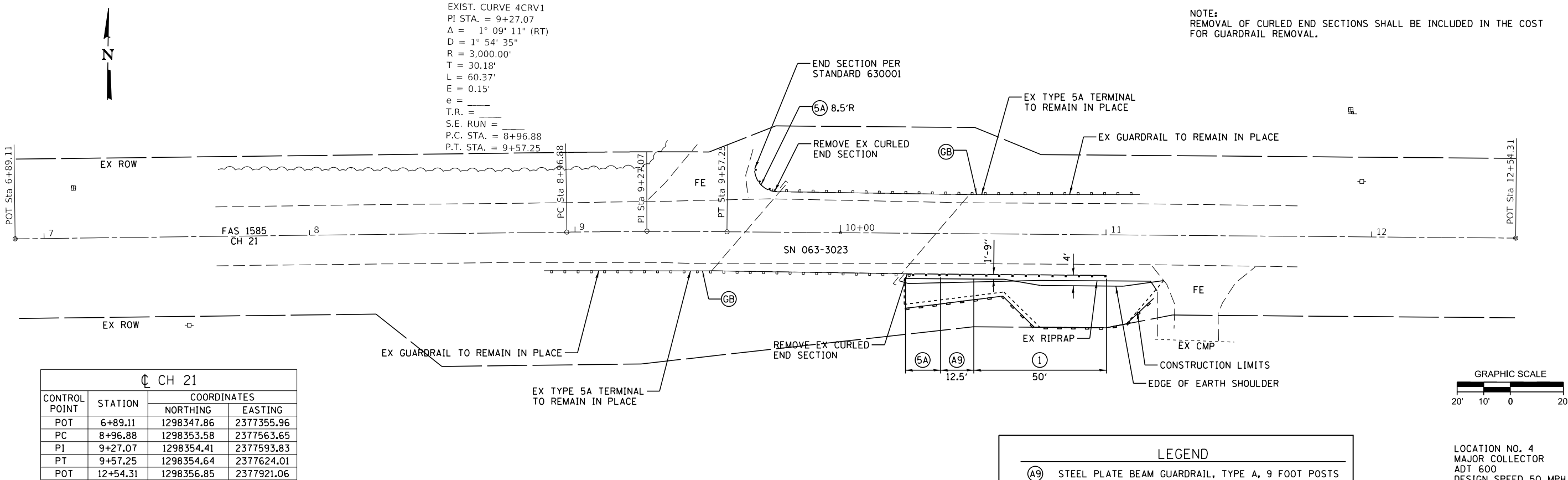
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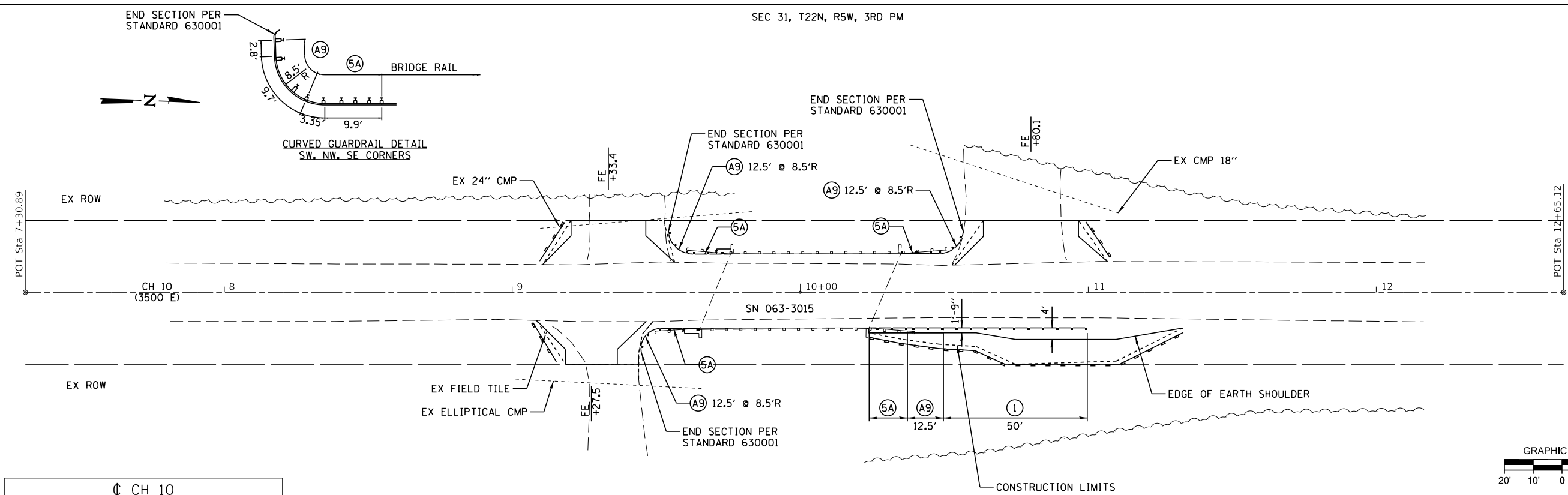
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CONTRACT NO. 93734

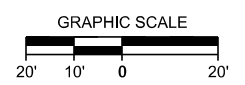
ILLINOIS

FED. AID PROJECT

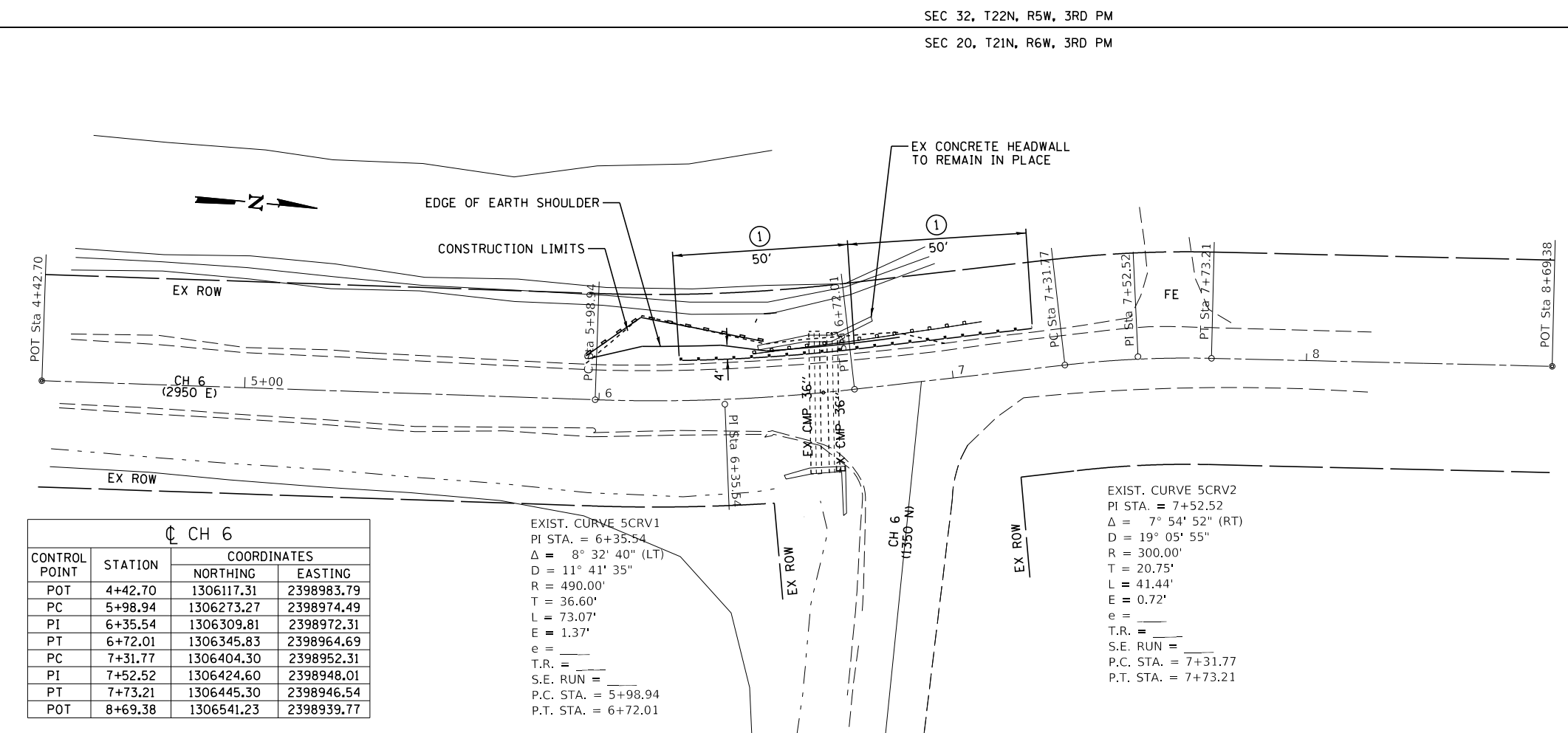




CH 10			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+30.89	1328979.63	2427459.39
POT	12+65.12	1329513.47	2427439.16



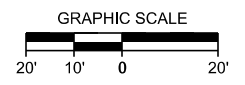
LOCATION NO. 6
MINOR COLLECTOR
ADT 175
DESIGN SPEED 40 MPH



CH 6			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	4+42.70	1306117.31	2398983.79
PC	5+98.94	1306273.27	2398974.49
PI	6+35.54	1306309.81	2398972.31
PT	6+72.01	1306345.83	2398964.69
PC	7+31.77	1306404.30	2398952.31
PI	7+52.52	1306424.60	2398948.01
PT	7+73.21	1306445.30	2398946.54
POT	8+69.38	1306541.23	2398939.77

EXIST. CURVE 5CRV1
PI STA. = 6+35.54
 $\Delta = 8^\circ 32' 40''$ (LT)
D = 11° 41' 35"
R = 490.00'
T = 36.60'
L = 73.07'
E = 1.37'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5+98.94
P.T. STA. = 6+72.01

EXIST. CURVE 5CRV2
PI STA. = 7+52.52
 $\Delta = 7^\circ 54' 52''$ (RT)
D = 19° 05' 55"
R = 300.00'
T = 20.75'
L = 41.44'
E = 0.72'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 7+31.77
P.T. STA. = 7+73.21

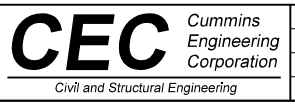


LOCATION NO. 5
MINOR COLLECTOR
ADT 75
DESIGN SPEED 40 MPH

- LEGEND
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - (5A) TRAFFIC BARRIER TERMINAL, TYPE 5A
 - PERIMETER EROSION BARRIER

MASON COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 5 & 6

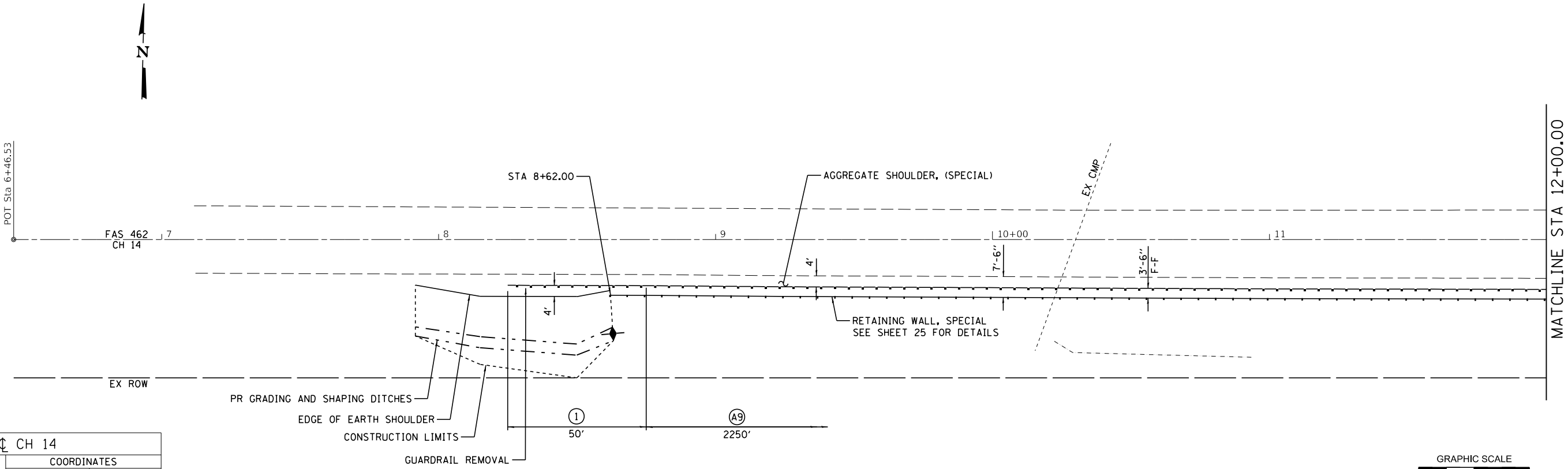


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FILE NAME = 2536.1-shl-pln5_6.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1in.	CHECKED - NAK	REVISED -
PLOT DATE = 8/2/2019	DATE - 8/15/2018	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	11
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

SEC 26, T23N, R6W, 3RD PM

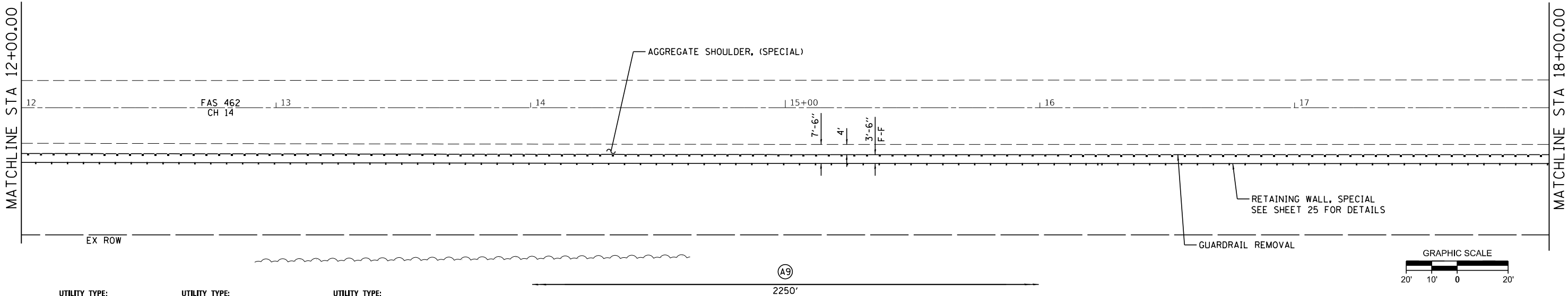


CH 14			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+46.53	1361998.92	2412261.72
POT	33+23.19	1362058.64	2414937.72

SEC 35, T23N, R6W, 3RD PM

SEC 26, T23N, R6W, 3RD PM

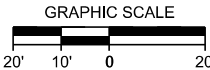
LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
◆	TEMPORARY DITCH CHECKS



UTILITY TYPE:
GAS /ELECTRIC
AMERENCILCO - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
COMMUNICATIONS
WINDSTREAM KDL /MCLEOD USA
ATT: LOCATE DESK
PHONE: (800) 289-1901

UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287



LOCATION NO. 7
MAJOR COLLECTOR
ADT 1050
DESIGN SPEED 50 MPH

SEC 35, T23N, R6W, 3RD PM

MASON COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATION 7

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	12
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE NAME: 2536.1-shh-plan7.dgn

CEC

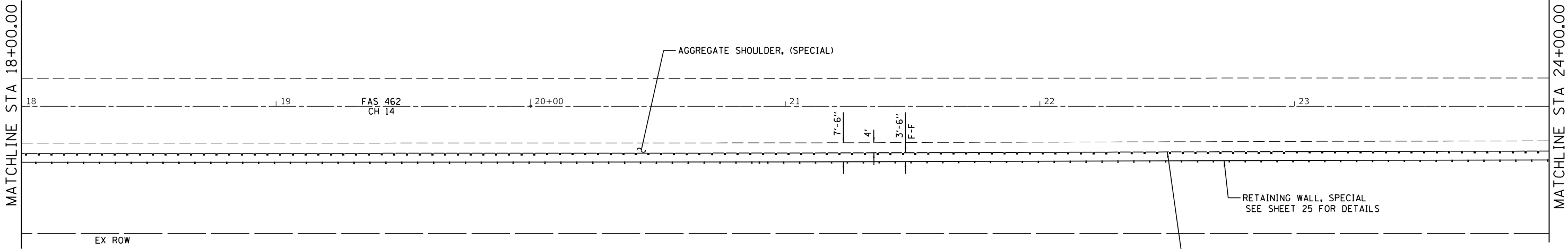
Cummins
Engineering
Corporation

Civil and Structural Engineering

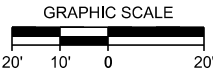
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FILE NAME = 2536.1-shh-plan7.dgn
PLOT SCALE = 40,0000' / In.
PLOT DATE = 9/18/2019

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - NAK	REVISED -
DATE - 8/08/2018	REVISED -

SEC 26, T23N, R6W, 3RD PM



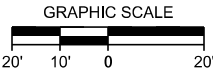
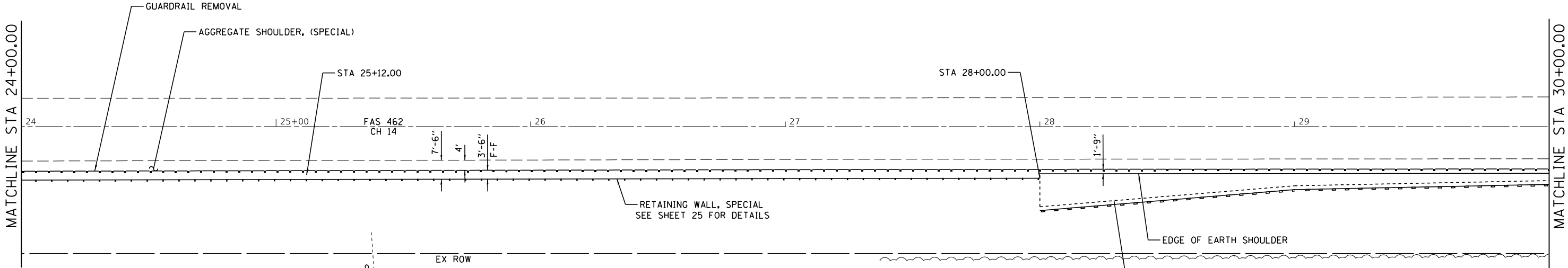
CH 14			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+46.53	1361998.92	2412261.72
POT	33+23.19	1362058.64	2414937.72



SEC 35, T23N, R6W, 3RD PM

SEC 26, T23N, R6W, 3RD PM

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
---	PERIMETER EROSION BARRIER



UTILITY TYPE:
GAS /ELECTRIC
AMEREN/CILCO - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
COMMUNICATIONS
WINDSTREAM KDL /MCLEOD USA
ATT: LOCATE DESK
PHONE: (800) 289-1901

UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287

LOCATION NO. 7
MAJOR COLLECTOR
ADT 1050
DESIGN SPEED 50 MPH

SEC 35, T23N, R6W, 3RD PM

MODEL Default
FILE Name: 2536.1-shl-pln7.dgn

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2536.1
FILE NAME = 2536.1-shl-pln7.dgn
PLOT SCALE = 40,0000' / In.
PLOT DATE = 9/18/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 8/08/2018

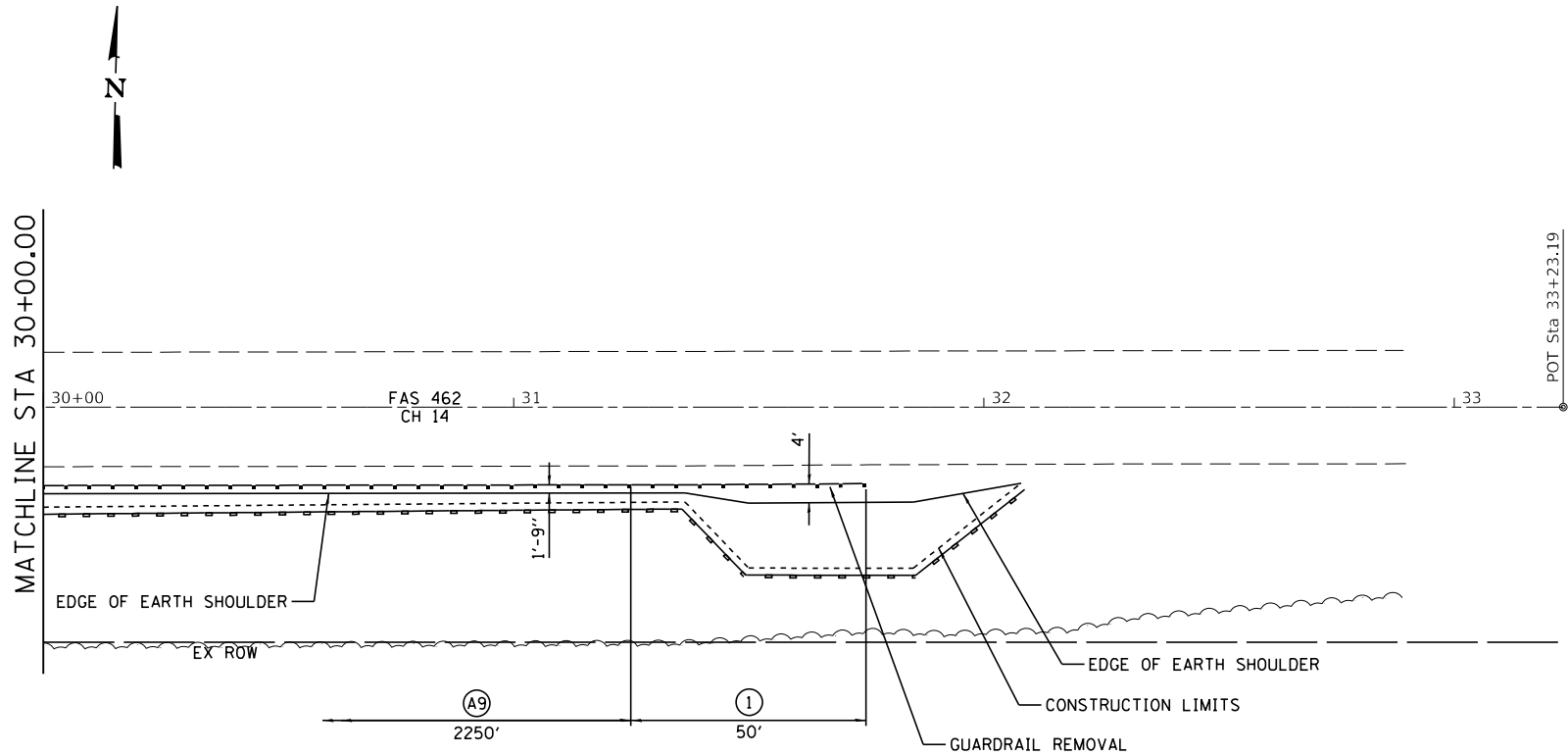
REVISED -
REVISED -
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REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATION 7

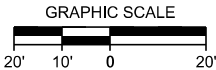
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	13
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				



CH 14			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+46.53	1361998.92	2412261.72
POT	33+23.19	1362058.64	2414937.72

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
	PERIMETER EROSION BARRIER



UTILITY TYPE:
GAS /ELECTRIC
AMERENCILCO - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
COMMUNICATIONS
WINDSTREAM KDL /MCLEOD USA
ATT: LOCATE DESK
PHONE: (800) 289-1901

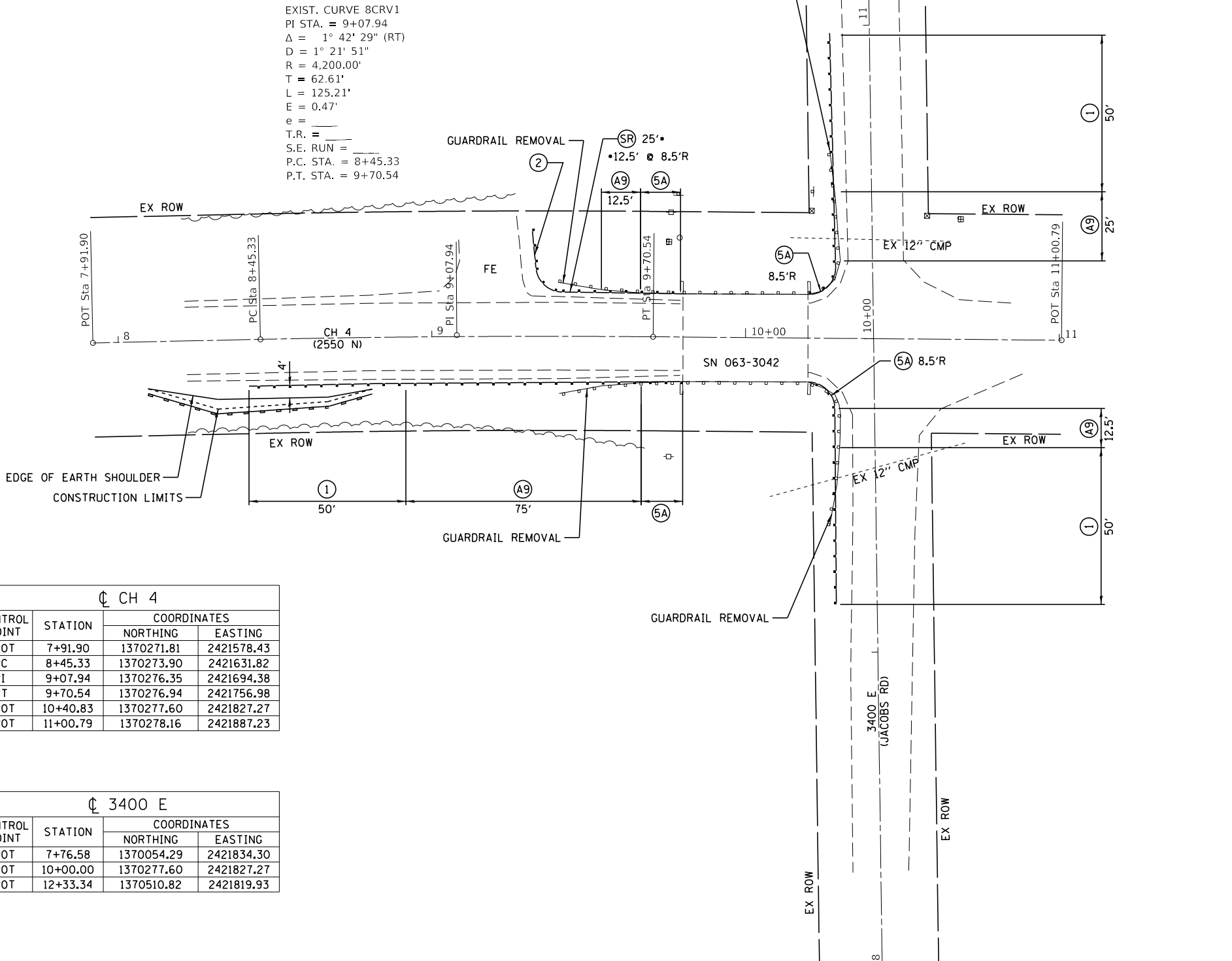
UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287

LOCATION NO. 7
MAJOR COLLECTOR
ADT 1050
DESIGN SPEED 50 MPH

MODEL Default
FILE Name: 2536.1-shh-plen7.dgn

JOB = 2536.1	DESIGNED - CGF	REVISED -
FILE NAME = 2536.1-shh-plen7.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / In.	CHECKED - NAK	REVISED -
PLOT DATE = 8/2/2019	DATE - 8/08/2018	REVISED -

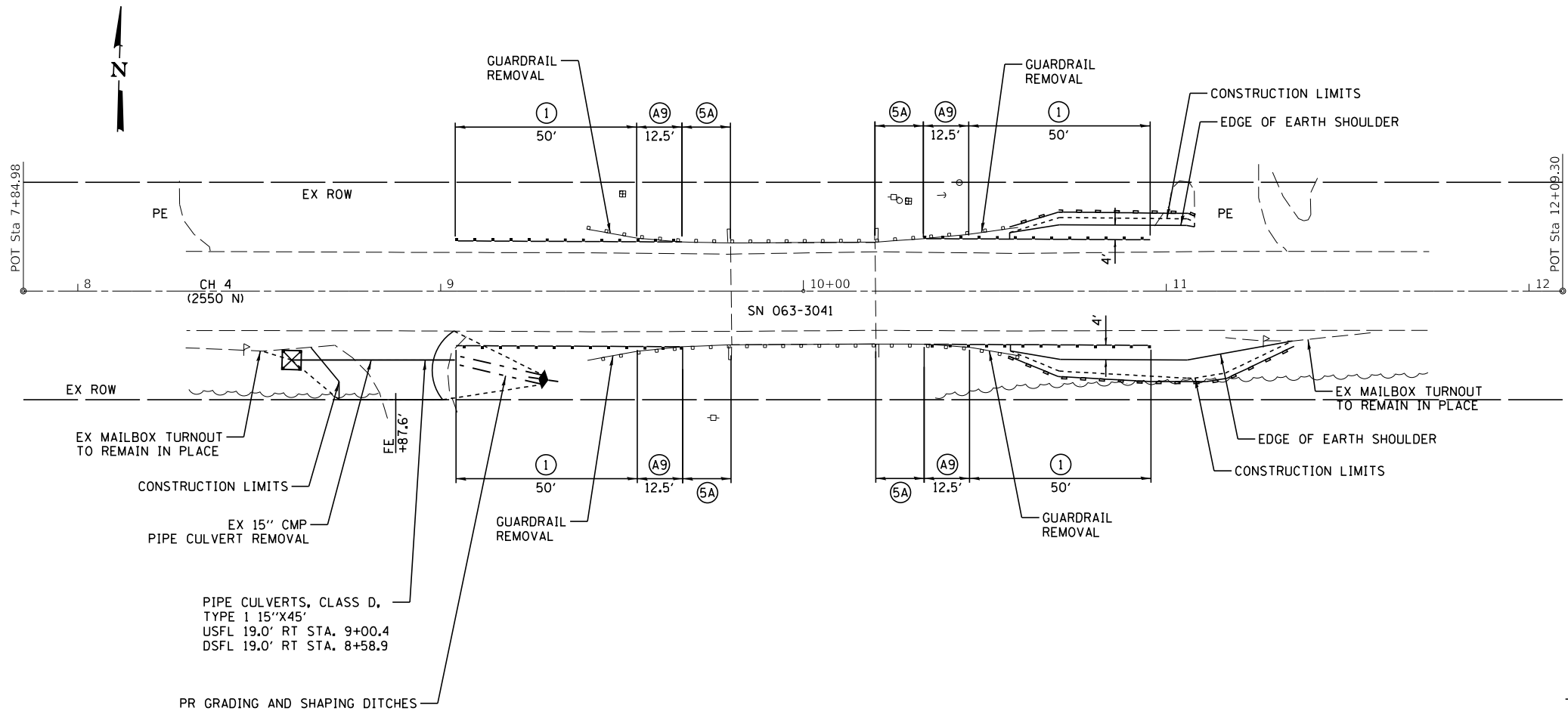
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	14
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				



CH 4			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+91.90	1370271.81	2421578.43
PC	8+45.33	1370273.90	2421631.82
PI	9+07.94	1370276.35	2421694.38
PT	9+70.54	1370276.94	2421756.98
POT	10+40.83	1370277.60	2421827.27
POT	11+00.79	1370278.16	2421887.23

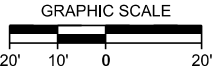
3400 E			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+76.58	1370054.29	2421834.30
POT	10+00.00	1370277.60	2421827.27
POT	12+33.34	1370510.82	2421819.93

MODEL Default
FILE Name: 2536.1-shh-pln8.dgn



CH 4			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+84.98	1370046.32	2416397.41
POT	12+09.30	1370057.59	2416821.59

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(5A)	TRAFFIC BARRIER TERMINAL, TYPE 5A
⊠	INLET AND PIPE PROTECTION
◆	TEMPORARY DITCH CHECKS
---	PERIMETER EROSION BARRIER



UTILITY TYPE:
GAS /ELECTRIC
AMERENCILCO - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
TELEPHONE /CABLE
CASS CO TELEPHONE & CABLE
ATT: LANCE ALLEN
PHONE: (217) 371-3605
(217) 452-7725

UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287

LOCATION NO. 9
MINOR COLLECTOR
ADT 550
DESIGN SPEED 50 MPH

MODEL Default
FILE Name: 2536.1-shl-pln9.dgn

CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1
FILE NAME = 2536.1-shl-pln9.dgn
PLOT SCALE = 40,0000' / In.
PLOT DATE = 9/18/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 8/13/2018

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

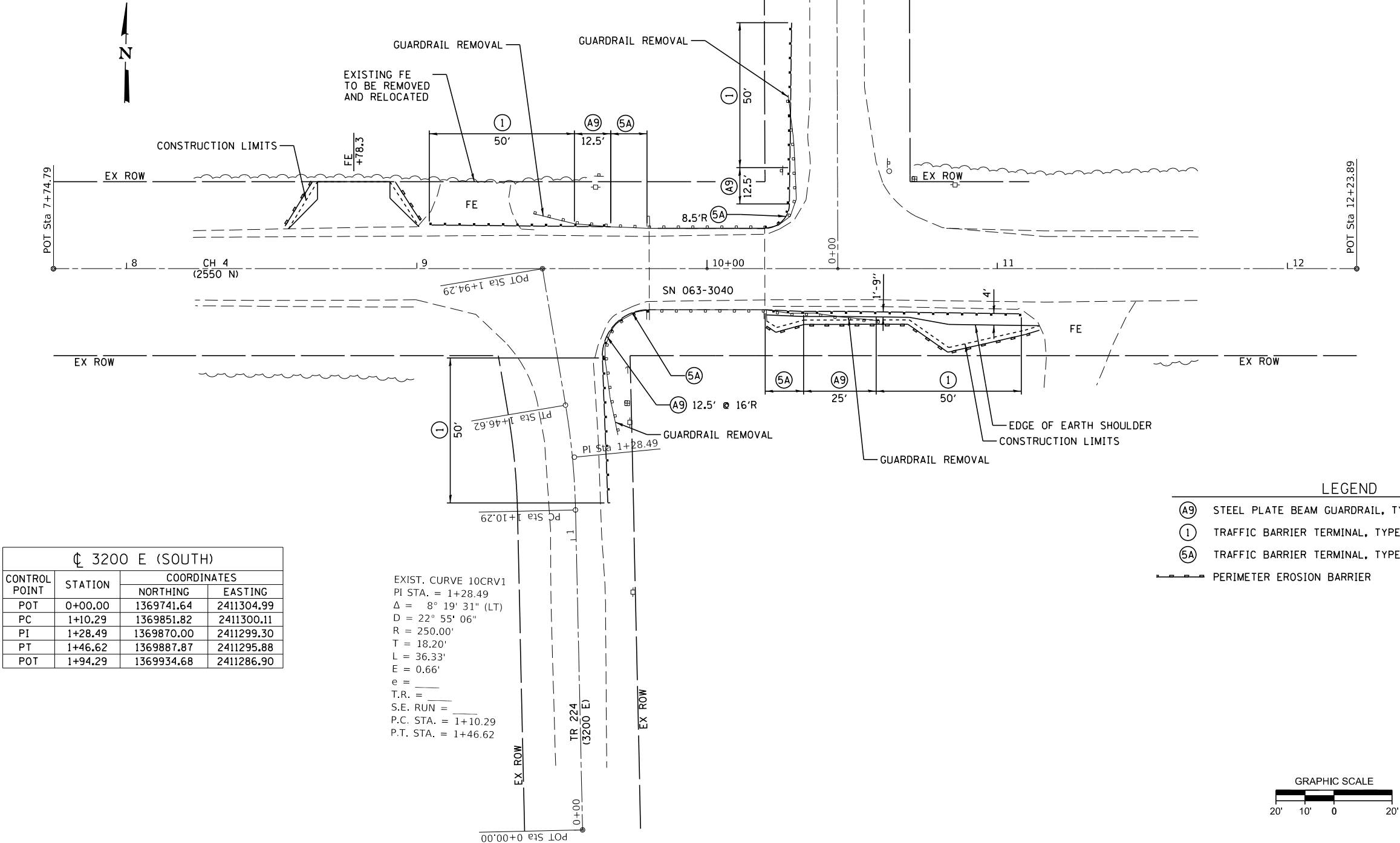
PLAN LOCATION 9

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	16
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

CH 4			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+74.79	1369930.96	2411118.43
POT	1+94.29 (3200E)	1369934.68	2411286.90
POT	10+00.00	1369935.94	2411343.59
POT	0+00.00 (3200E)	1369936.93	2411388.64
POT	12+23.89	1369940.88	2411567.42

3200 E (NORTH)			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	1369936.93	2411388.64
POT	1+96.23	1370133.10	2411383.68



3200 E (SOUTH)			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	1369741.64	2411304.99
PC	1+10.29	1369851.82	2411300.11
PI	1+28.49	1369870.00	2411299.30
PT	1+46.62	1369887.87	2411295.88
POT	1+94.29	1369934.68	2411286.90

EXIST. CURVE 10CRV1
PI STA. = 1+28.49
Δ = 8° 19' 31" (LT)
D = 22° 55' 06"
R = 250.00'
T = 18.20'
L = 36.33'
E = 0.66'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 1+10.29
P.T. STA. = 1+46.62

CEC

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-shl-plan10.dgn
PLOT SCALE = 40,0000" / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 8/08/2018

REVISED -
REVISED -
REVISED -
REVISED -

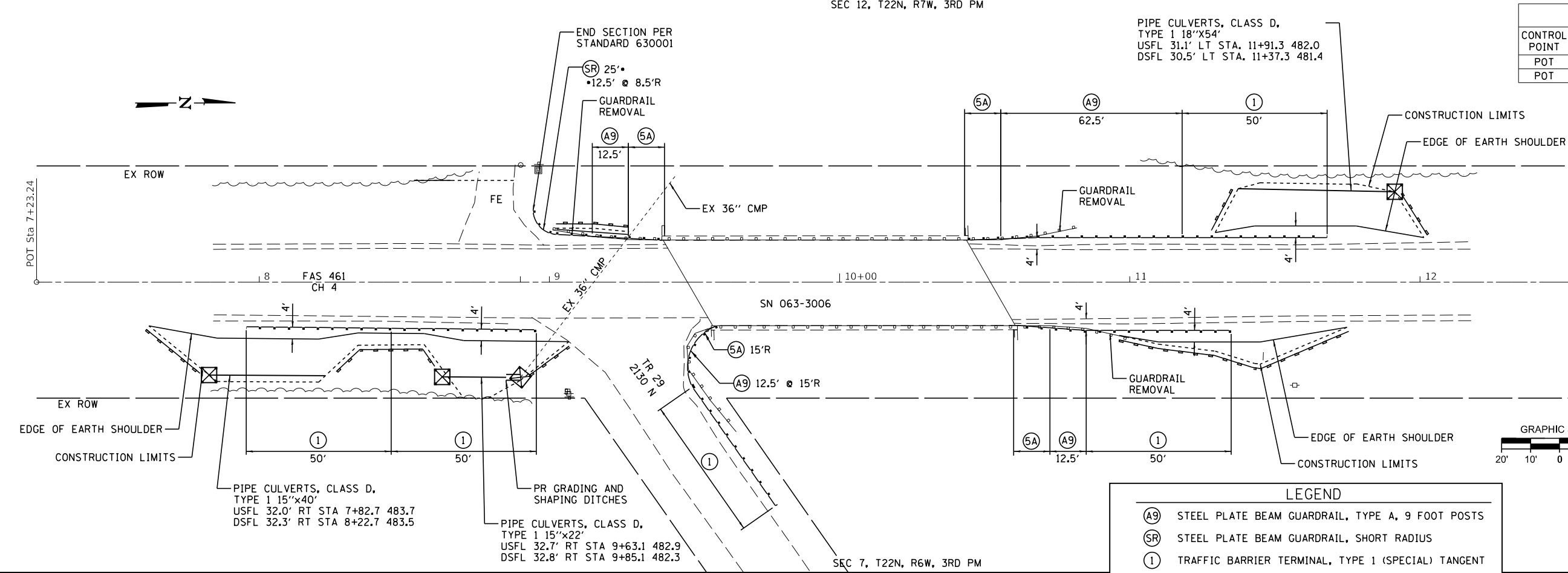
**MASON COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 10

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	17
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

SEC 12, T22N, R7W, 3RD PM



CH 4			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+23.24	1347033.27	2390875.73
POT	13+38.08	1347648.11	2390876.13

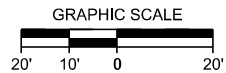
UTILITY TYPE:
GAS /ELECTRIC
AMEREN CIPS - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287

UTILITY TYPE:
TELEPHONE /CABLE
CASS CO TELEPHONE & CABLE
ATT: DAVID JURGENS
PHONE: (217) 452-3022

UTILITY TYPE:
TELEPHONE /CABLE
CASS CO TELEPHONE & CABLE
ATT: LANCE ALLEN
PHONE: (217) 371-3605
(217) 452-7725

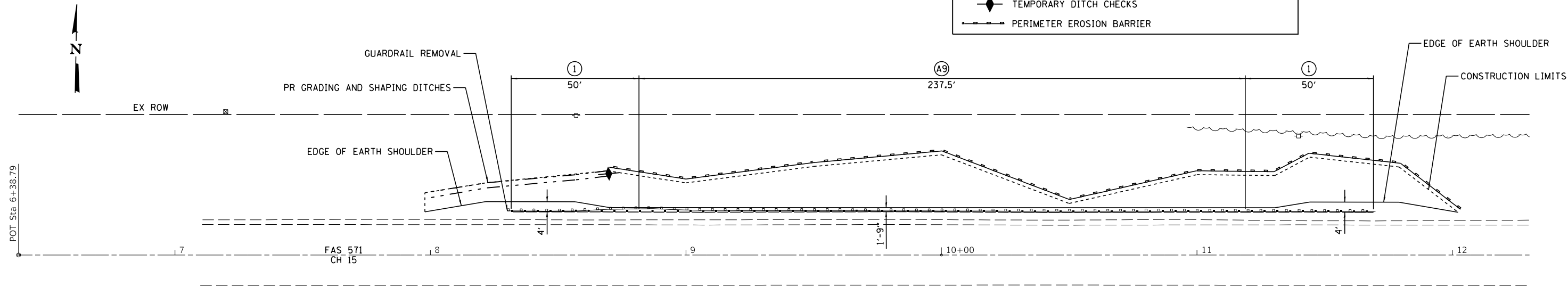
UTILITY TYPE:
ENGINEERING
VILLAGE OF FOREST CITY
ATT: CALVIN WILLARD
PHONE: (309) 202-0248



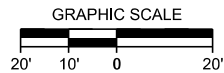
LOCATION NO. 12
MAJOR COLLECTOR
ADT 700
DESIGN SPEED 50 MPH

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(SR)	STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(5A)	TRAFFIC BARRIER TERMINAL, TYPE 5A
☒	INLET AND PIPE PROTECTION
◆	TEMPORARY DITCH CHECKS
—	PERIMETER EROSION BARRIER

SEC 20, T23N, R6W, 3RD PM



CH 15			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+38.79	1367043.65	2397190.89
POT	13+33.59	1367056.35	2397885.57



LOCATION NO. 11
MAJOR COLLECTOR
ADT 600
DESIGN SPEED 50 MPH

SEC 29, T23N, R6W, 3RD PM

MASON COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 11 & 12

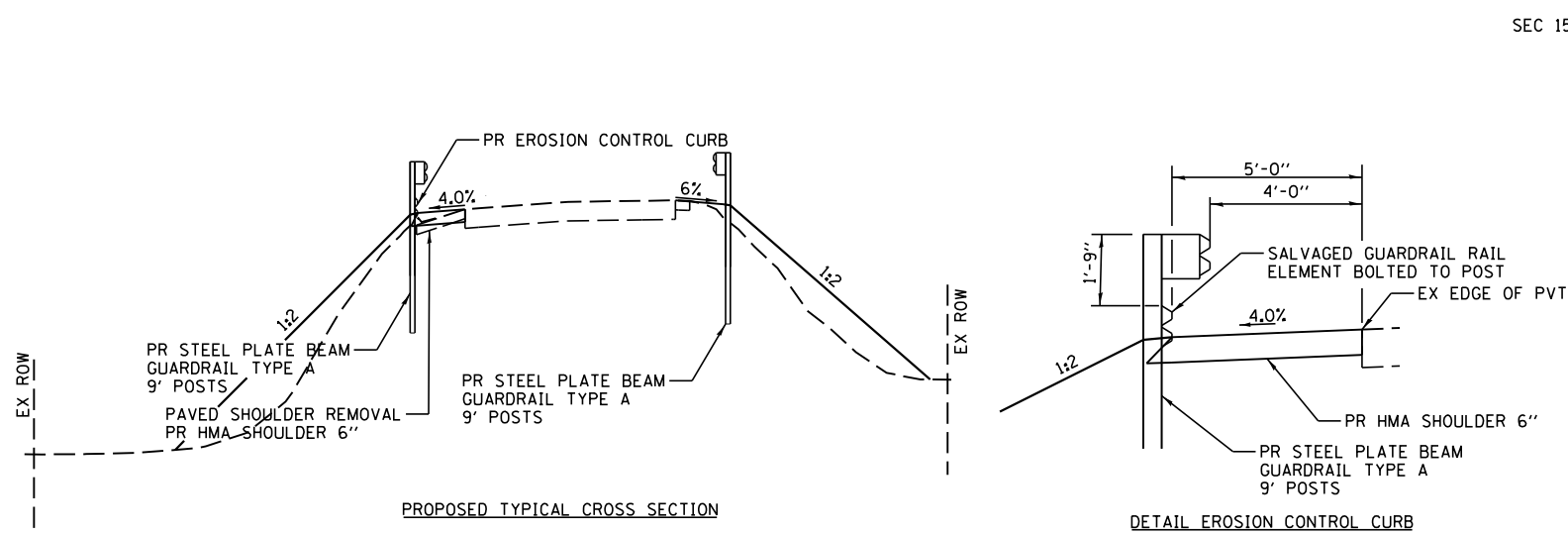
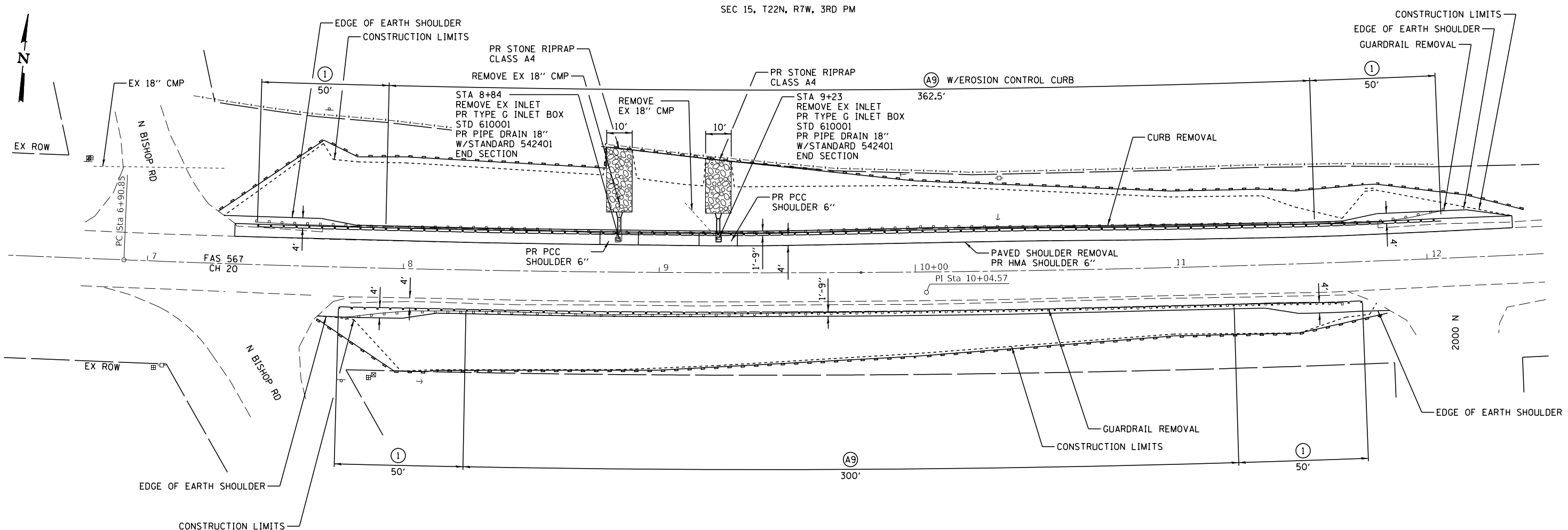
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00SP	MASON	62	18
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

MODEL: SHOWNAMES
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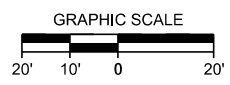
CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2536.1	DESIGNED - NAK	REVISED -
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PLOT SCALE = \$SCALES\$	CHECKED - NAK	REVISED -
PLOT DATE = \$DATES\$	DATE - 8/9/2018	REVISED -



EXIST. CURVE 13
PI STA. = 10+04.57
Δ = 5° 47' 37" (LT)
D = 0° 55' 27"
R = 6,200.00'
T = 313.73'
L = 626.92'
E = 7.93'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 6+90.85

- LEGEND
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - PERIMETER EROSION BARRIER



CH 20			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+39.12	1340756.75	2377243.61
PC	6+90.85	1340760.16	2377295.23
POT	10+00.00	1340785.84	2377582.04
PI	10+04.57	1340780.87	2377608.27
PT	13+17.77	1340833.08	2377917.62
POT	13+88.57	1340844.86	2377987.44

LOCATION NO. 13
MAJOR COLLECTOR
ADT 1150
DESIGN SPEED 50 MPH

UTILITY TYPE:
GAS /ELECTRIC
AMERENCILCO - (NORTH)
ATT: MARTIN FULLER
PHONE: (618) 236-6281

UTILITY TYPE:
ELECTRIC
MENARD ELECTRIC COOP
ATT: BRADY SMITH
PHONE: (217) 632-7746

UTILITY TYPE:
COMMUNICATIONS
CTLCL CENTURYLINK
ATT: BRAD STOCKHAM
PHONE: (309) 477-0363
(309) 267-3287

MASON COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATION 13

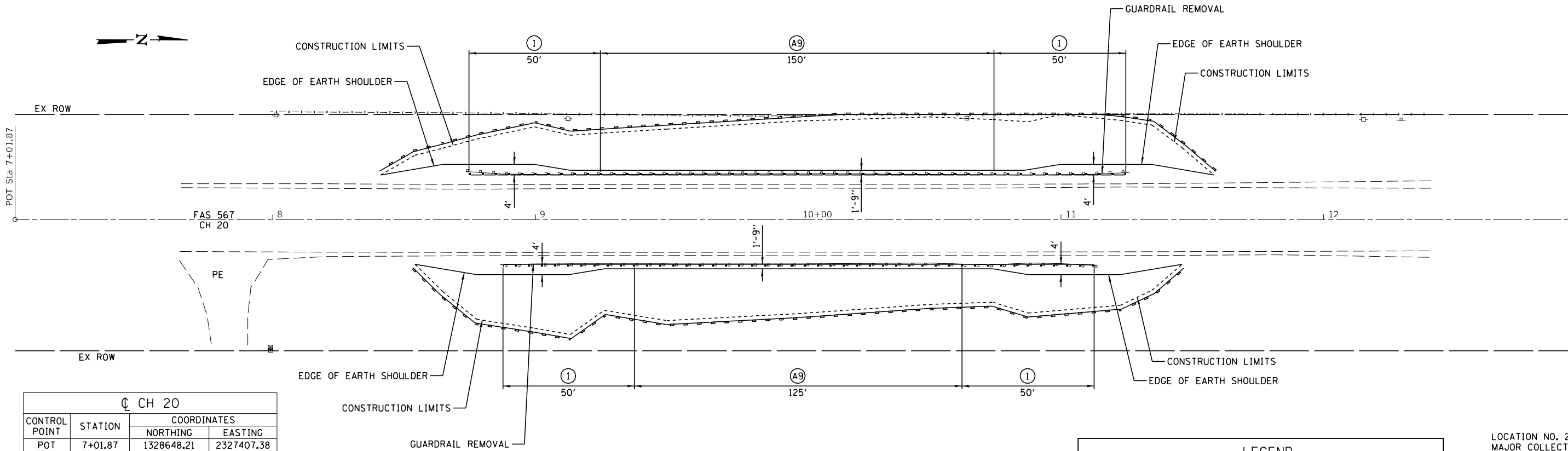


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PLOT DATE = 8/2/2019	DATE - 8/08/2018	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	19
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

SEC 36, T22N, R9W, 3RD PM



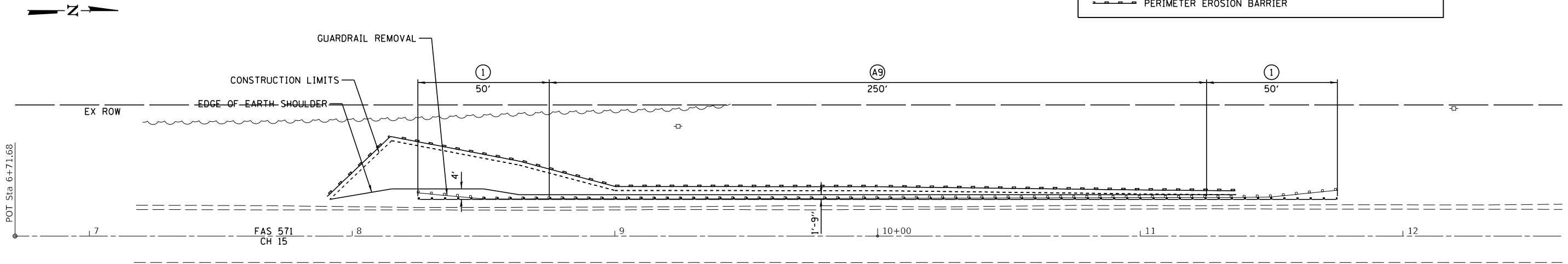
CH 20			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+01.87	1328648.21	2327407.38
POT	13+01.57	1329247.90	2327406.20

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
---	PERIMETER EROSION BARRIER

LOCATION NO. 20
MAJOR COLLECTOR
ADT 1900
DESIGN SPEED 50 MPH

SEC 31, T22N, R8W, 3RD PM

SEC 15, T22N, R8W, 3RD PM



CH 15			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+71.68	1343240.74	2346064.72
POT	13+24.32	1343893.38	2346063.63

LOCATION NO. 17
MAJOR COLLECTOR
ADT 450
DESIGN SPEED 50 MPH

MODEL: Default
FILE NAME: 2536.1-shl-plan17_20.dgn

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JOB = 2536.1
FILE NAME = 2536.1-shl-plan17_20.dgn
PLOT SCALE = 40,0000"/In.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 8/08/2018

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 17 & 20

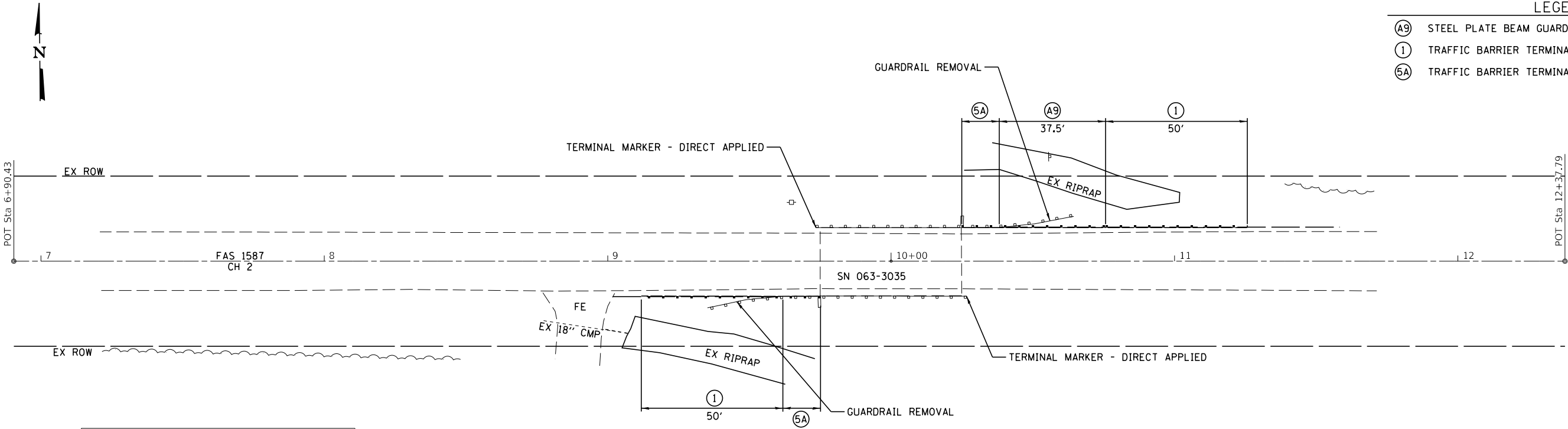
SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	21
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

SEC 36, T20N, R9W, 3RD PM

LEGEND

- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (5A) TRAFFIC BARRIER TERMINAL, TYPE 5A

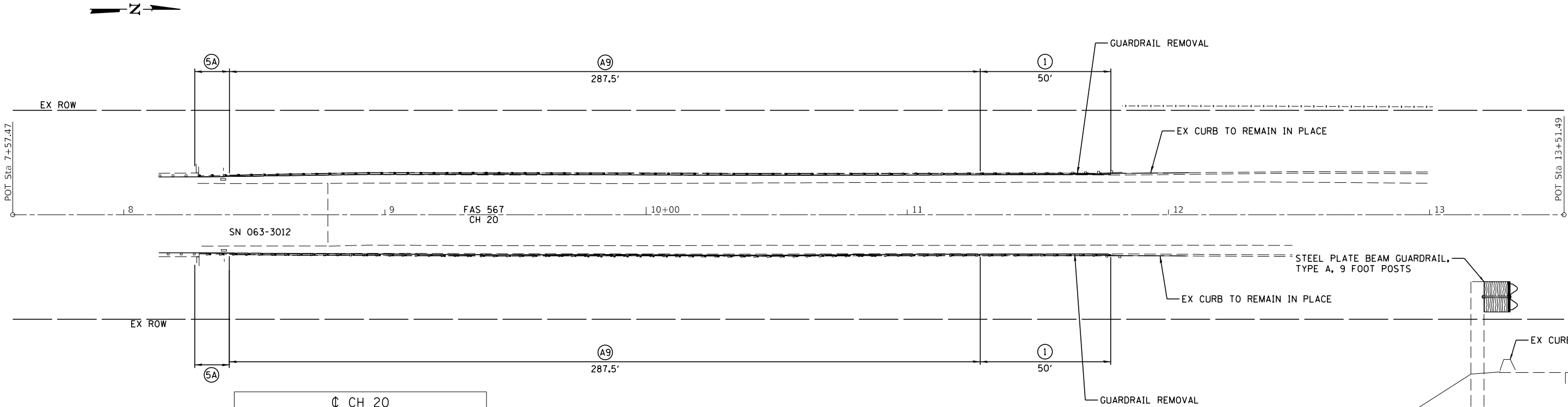


CH 2			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+90.43	1262616.73	2325679.51
POT	12+37.79	1262611.76	2326226.85

LOCATION NO. 22
MAJOR COLLECTOR
ADT 125
DESIGN SPEED 40 MPH

SEC 1, T19N, R9W, 3RD PM

SEC 36, T22N, R9W, 3RD PM



CH 20			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+57.47	1327782.45	2327408.58
POT	13+51.49	1328376.47	2327407.63

LOCATION NO. 21
MAJOR COLLECTOR
ADT 1900
DESIGN SPEED 50 MPH

TYPICAL SECTION
LT & RT STA 7+68.00 TO STA 11+81.00

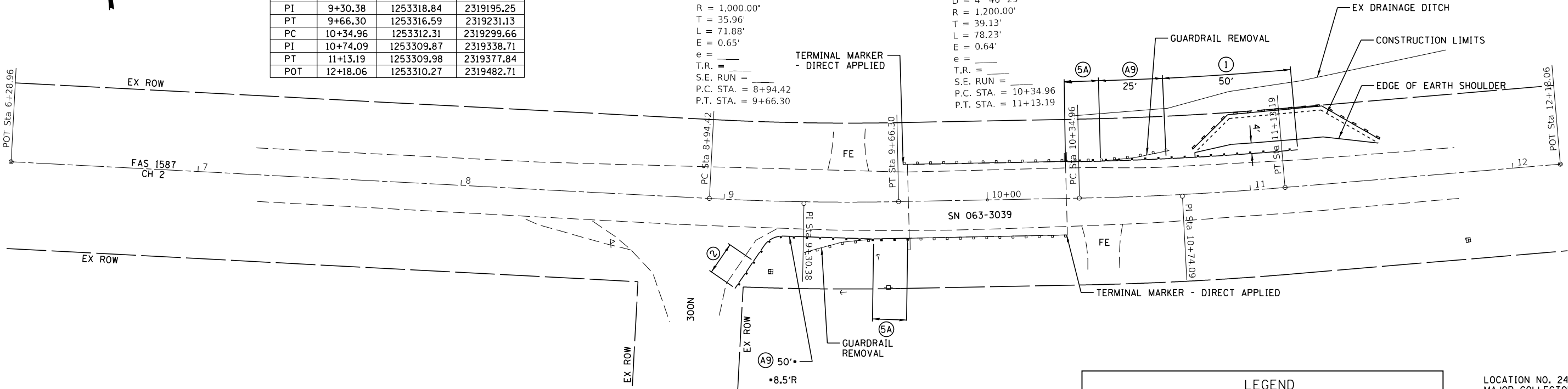
SEC 31, T22N, R8W, 3RD PM

SEC 11, T19N, R9W, 3RD PM

CH 2			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+28.96	1253359.20	2318896.54
PC	8+94.42	1253323.65	2319159.62
PI	9+30.38	1253318.84	2319195.25
PT	9+66.30	1253316.59	2319231.13
PC	10+34.96	1253312.31	2319299.66
PI	10+74.09	1253309.87	2319338.71
PT	11+13.19	1253309.98	2319377.84
POT	12+18.06	1253310.27	2319482.71

EXIST. CURVE 24CRV1
PI STA. = 9+30.38
 $\Delta = 4^\circ 07' 07''$ (LT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 35.96'$
 $L = 71.88'$
 $E = 0.65'$
 $e =$
T.R. =
S.E. RUN =
P.C. STA. = 8+94.42
P.T. STA. = 9+66.30

EXIST. CURVE 24CRV2
PI STA. = 10+74.09
 $\Delta = 3^\circ 44' 07''$ (LT)
 $D = 4^\circ 46' 29''$
 $R = 1,200.00'$
 $T = 39.13'$
 $L = 78.23'$
 $E = 0.64'$
 $e =$
T.R. =
S.E. RUN =
P.C. STA. = 10+34.96
P.T. STA. = 11+13.19

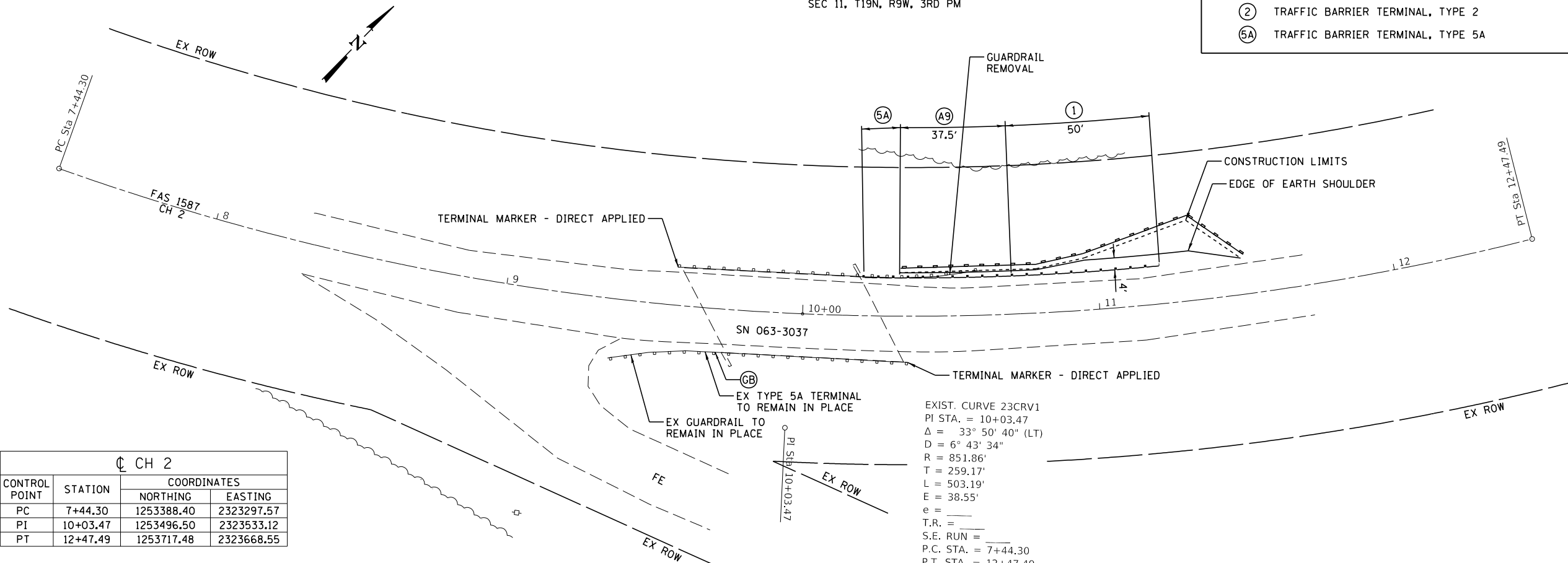


- LEGEND**
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - (2) TRAFFIC BARRIER TERMINAL, TYPE 2
 - (5A) TRAFFIC BARRIER TERMINAL, TYPE 5A

LOCATION NO. 24
MAJOR COLLECTOR
ADT 125
DESIGN SPEED 40 MPH

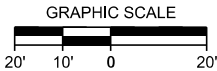
SEC 11, T19N, R9W, 3RD PM

SEC 11, T19N, R9W, 3RD PM



CH 2			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
PC	7+44.30	1253388.40	2323297.57
PI	10+03.47	1253496.50	2323533.12
PT	12+47.49	1253717.48	2323668.55

EXIST. CURVE 23CRV1
PI STA. = 10+03.47
 $\Delta = 33^\circ 50' 40''$ (LT)
 $D = 6^\circ 43' 34''$
 $R = 851.86'$
 $T = 259.17'$
 $L = 503.19'$
 $E = 38.55'$
 $e =$
T.R. =
S.E. RUN =
P.C. STA. = 7+44.30
P.T. STA. = 12+47.49



LOCATION NO. 23
MAJOR COLLECTOR
ADT 125
DESIGN SPEED 40 MPH

**MASON COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATIONS 23 & 24

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	23
CONTRACT NO. 93734				
ILLINOIS FED. AID PROJECT				

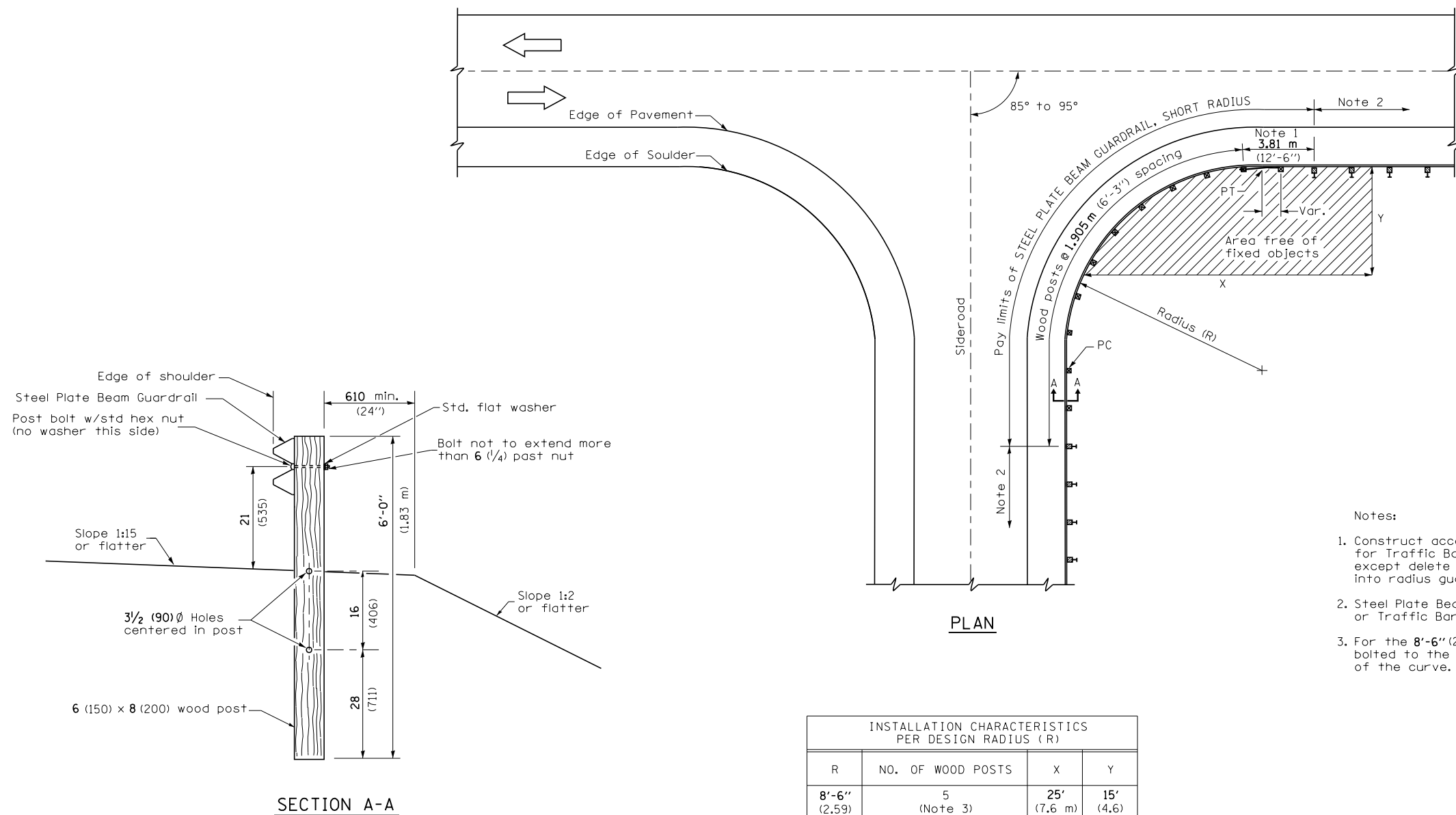
SCALE: SHEET OF SHEETS STA. TO STA.



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JOB = 2536.1
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PLOT DATE = 8/2/2019

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - NAK	REVISED -
DATE - 8/08/2018	REVISED -



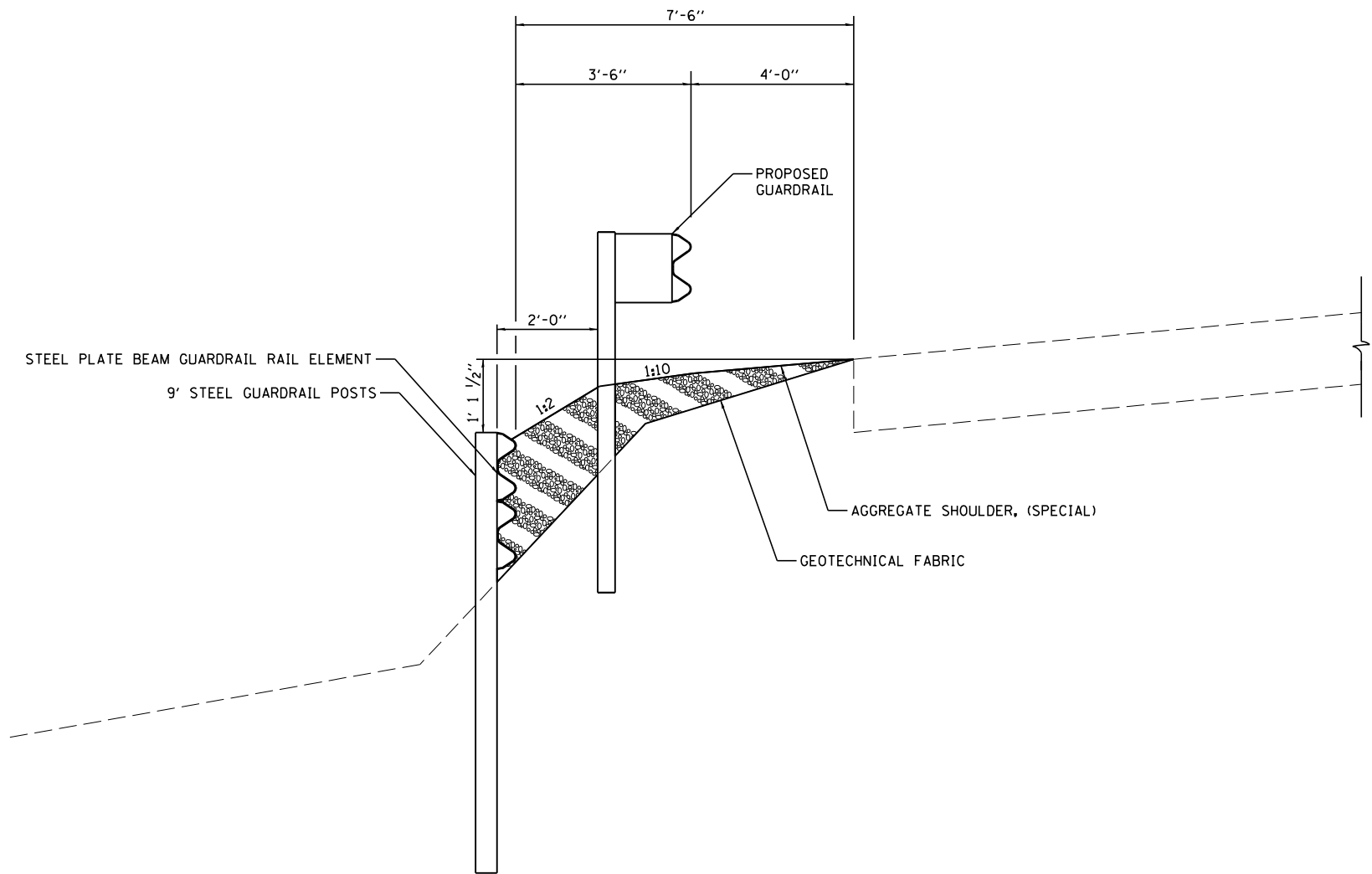
Notes:

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

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.



RETAINING WALL, SPECIAL

GENERAL NOTES

THIS WORK SHALL BE DONE IN ACCORDANCE TO THE APPLICABLE PORTIONS OF SECTION 630 OF THE STANDARD SPECIFICATIONS.

POST SPACING SHALL BE 6'-3".

STEEL PLATE BEAM GUARDRAIL SHALL BE ACCORDING TO THE REQUIREMENTS OF AASHTO M 180, TYPE 1, CLASS A.

STEEL PLATE BEAM GUARDRAIL AND STEEL POSTS SHALL BE 9'-0" LONG AND IN ACCORDANCE WITH ARTICLES 1006.23 AND 1006.25 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL. ANY SALVAGE RAIL ELEMENTS THAT WERE NOT DAMAGED BY THE CONTRACTOR DURING THE REMOVAL MAY BE USED IN LIEU OF NEW RAIL ELEMENTS AND POSTS.

ALL SECTIONS OF GUARDRAIL SHALL BE BOLTED TOGETHER.

RAIL ELEMENTS SHALL BE BOLTED TO POST.

BOTTOM OF RAIL SHALL BE EMBEDDED INTO THE FORESLOPE UNTIL NO GAP EXISTS BETWEEN THE BOTTOM OF THE RAIL AND THE EXISTING GROUND.

GEOTECHNICAL FABRIC SHALL BE PLACED BEHIND THE RAIL ELEMENT AND ON THE GROUND BEHIND THE EXISTING GUARDRAIL BEFORE PLACING THE AGGREGATE WEDGE SHOULDERS. THE INSTALLATION AND MATERIAL FOR GEOTECHNICAL FABRIC SHALL BE ACCORDING TO SECTION 210 OF THE STANDARD SPECIFICATIONS.

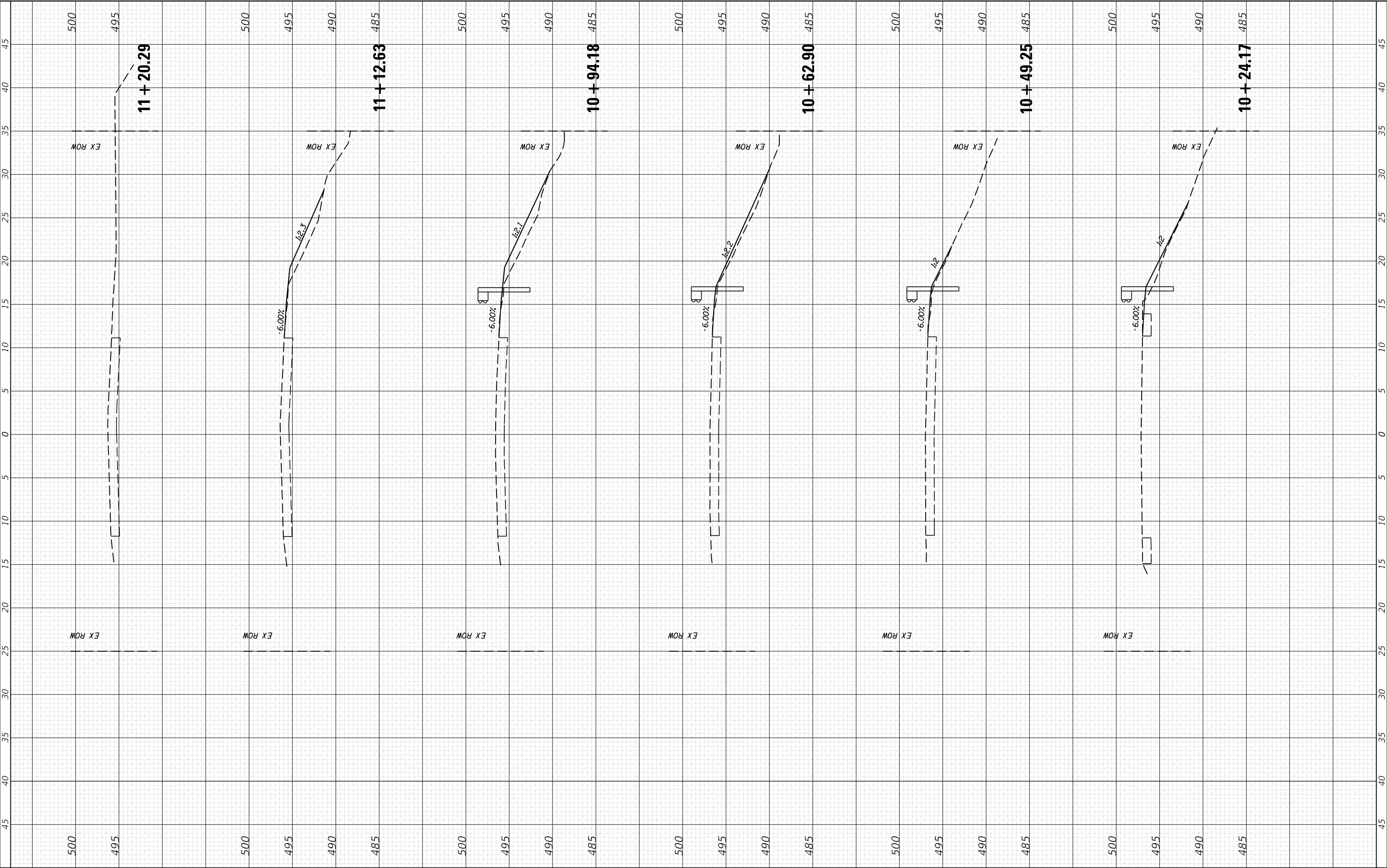
AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE SHOULDER, (SPECIAL).

MODEL: SHODLNAME\$
FILE: NAME\$.STB\$

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



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	PLOT DATE = 8/21/2019	DATE - 6/21/2019	REVISED -											ILLINOIS

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

ORIGINAL SURVEY		BY _____	DATE _____
NOTE BOOK			
SURVEYED _____			
PLOTTED _____			
TEMPLATE _____			
AREAS _____			
AREAS CHECKED _____			
NO. _____			

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Engineering
Corporation

Civil and Structural Engineering

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DESIGNED	-	CGF
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DATE	-	6/21/2019

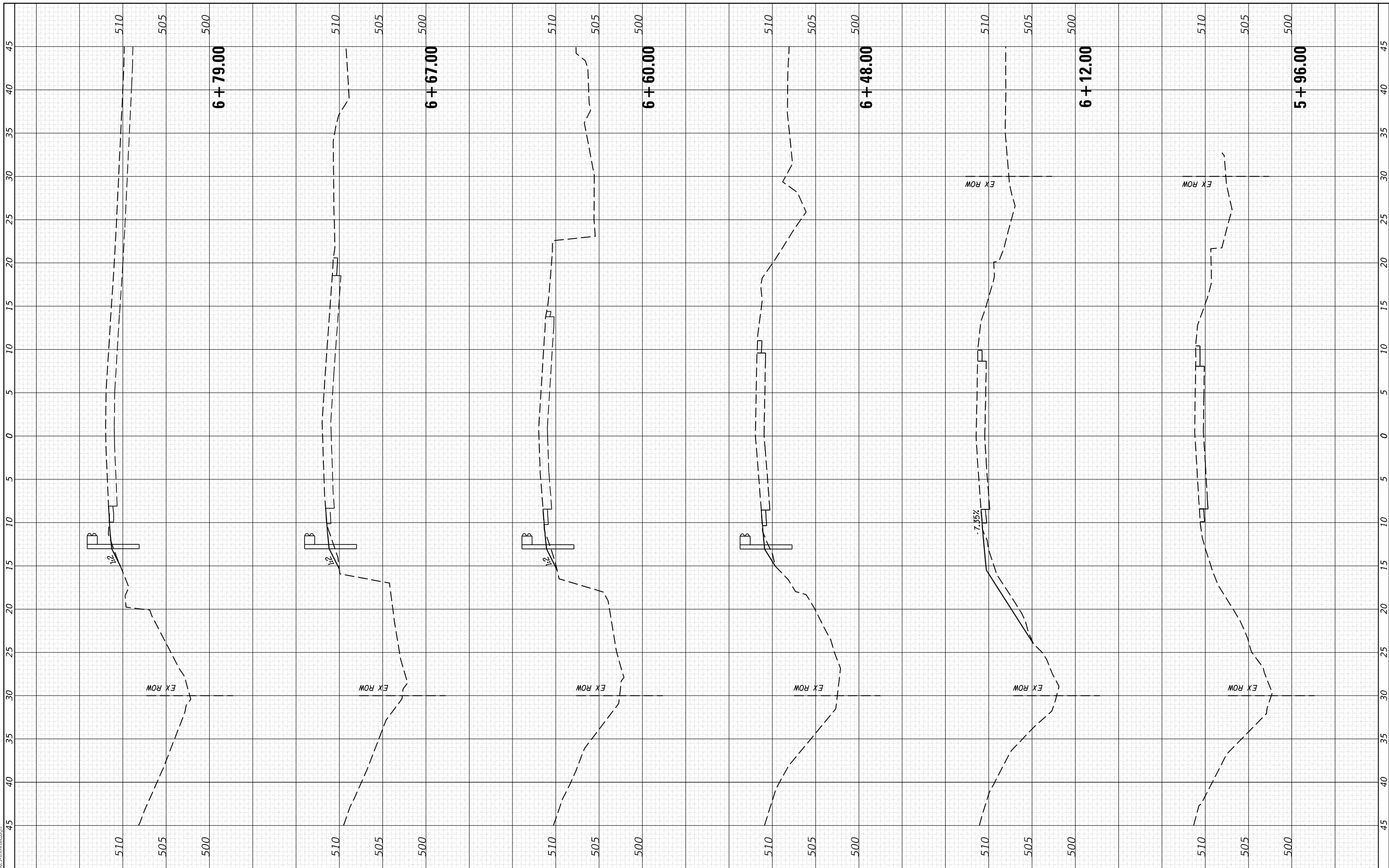
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REVISED	-
REVISED	-
REVISED	-

MASON COUNTY GUARDRAIL IMPROVEMENTS

LOCATION NO. 5

SCALE:	SHEET	OF	SHEETS	STA. 5+96.00	TO STA. 6+79.00
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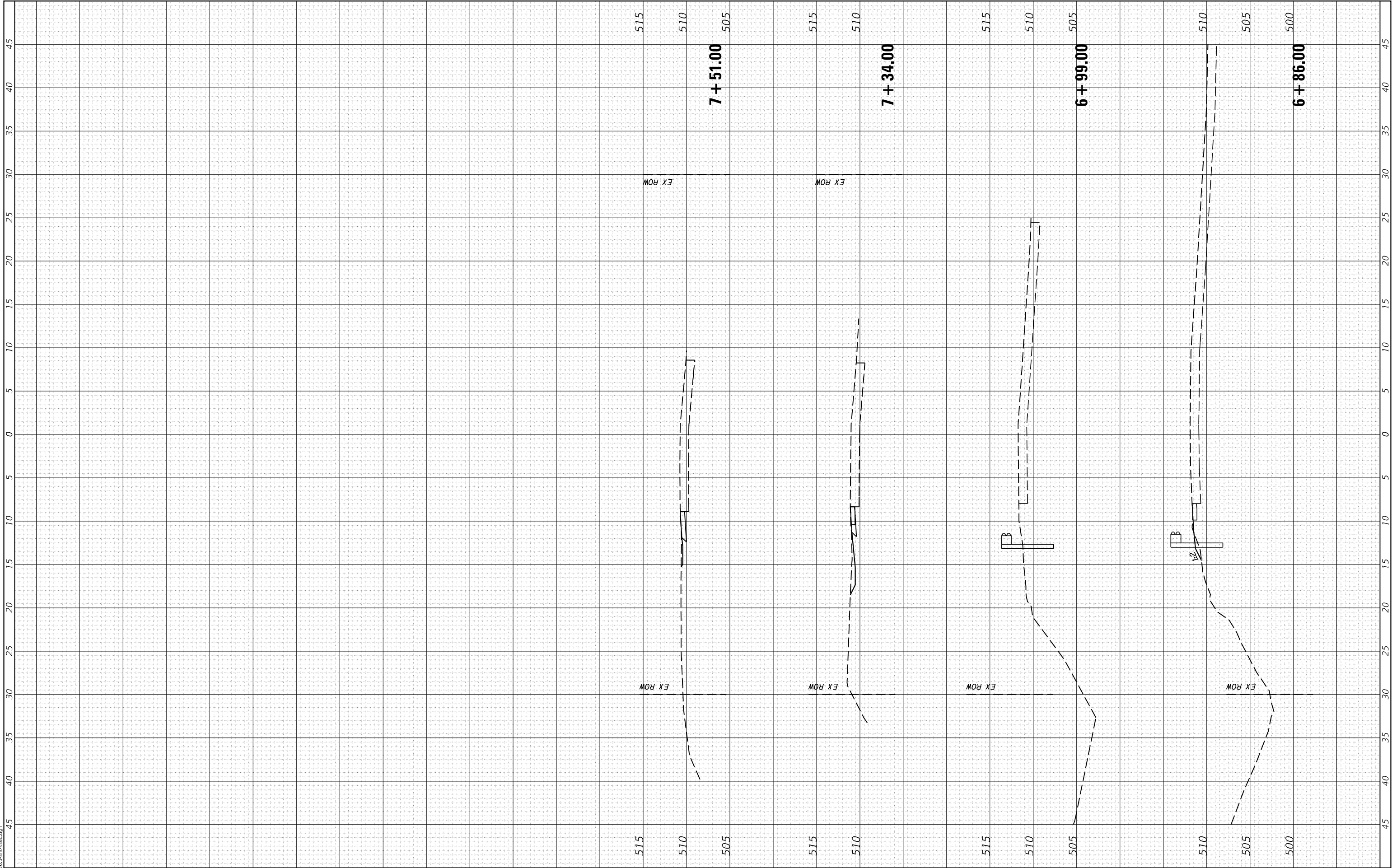
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	27
		CONTRACT NO. 93734		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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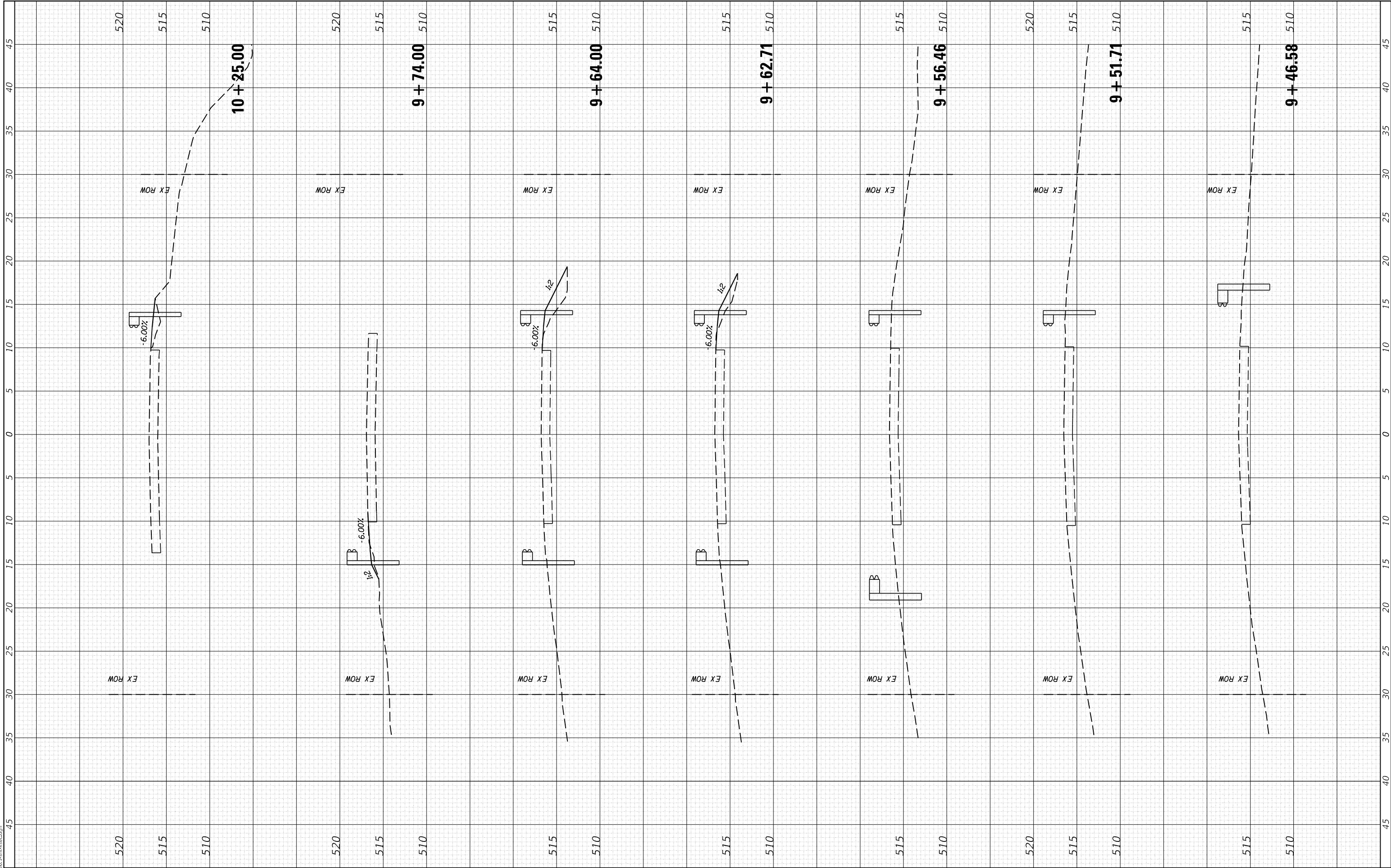


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FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



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Civil and Structural Engineering

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Engineering
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JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 6

SCALE: SHEET OF SHEETS STA. 9+46.58 TO STA. 10+25.00

ROUTE VARIOUS	SECTION 17-00067-00-SP	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 29
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 93734				

FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	BY	DATE

MODEL Default
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CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1
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PLOT SCALE = 10,0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 6

SCALE:	SHEET	OF	SHEETS	STA. 10+35.00	TO STA. 11+32.82
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	30
		CONTRACT NO. 93734		
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

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CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

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DESIGNED - CGF
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DATE - 6/21/2019

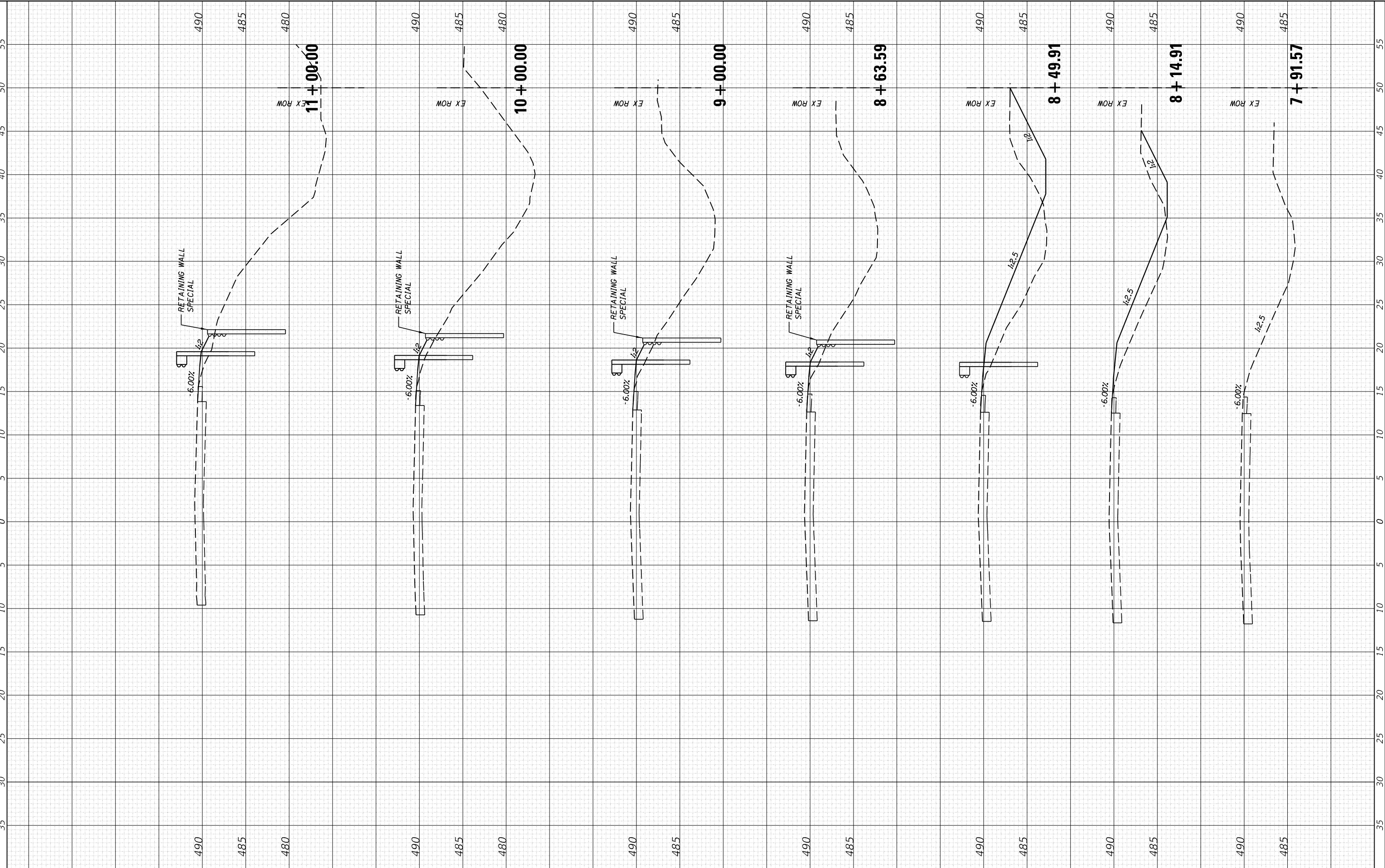
REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 7

SCALE:	SHEET	OF	SHEETS	STA. 7+91.57	TO STA. 11+00.00
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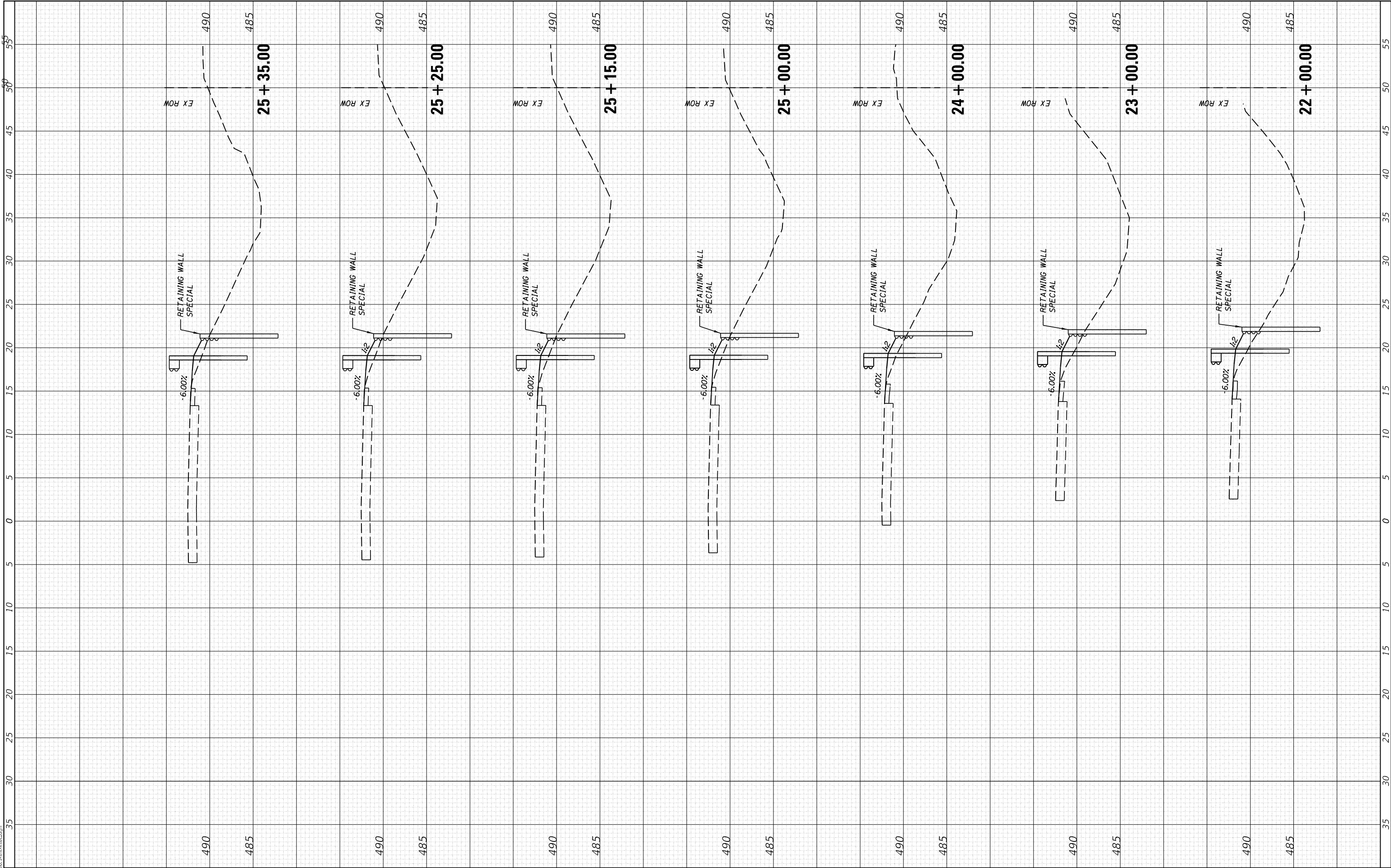
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	31
		CONTRACT NO. 93734		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	BY	DATE

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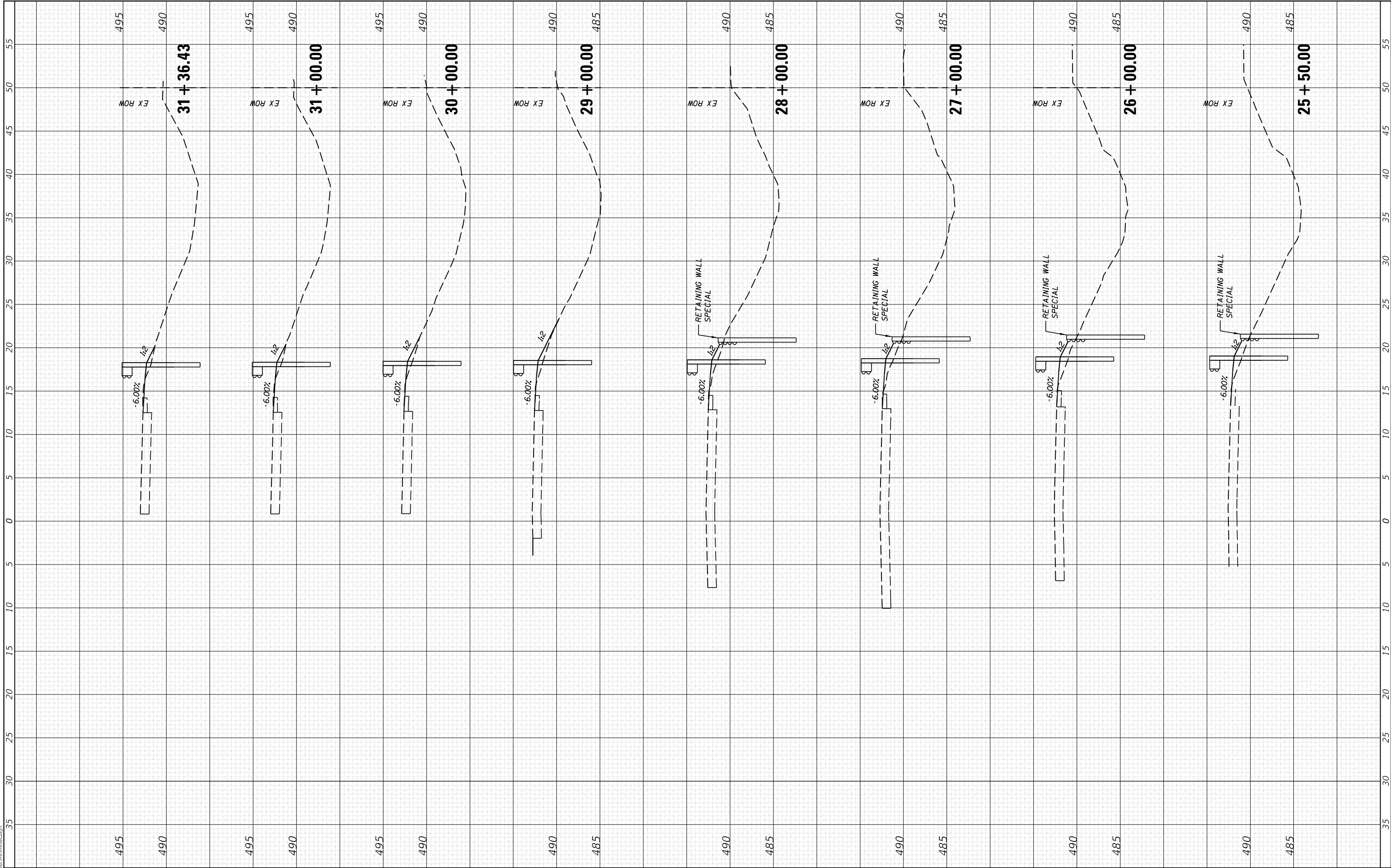


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 7					ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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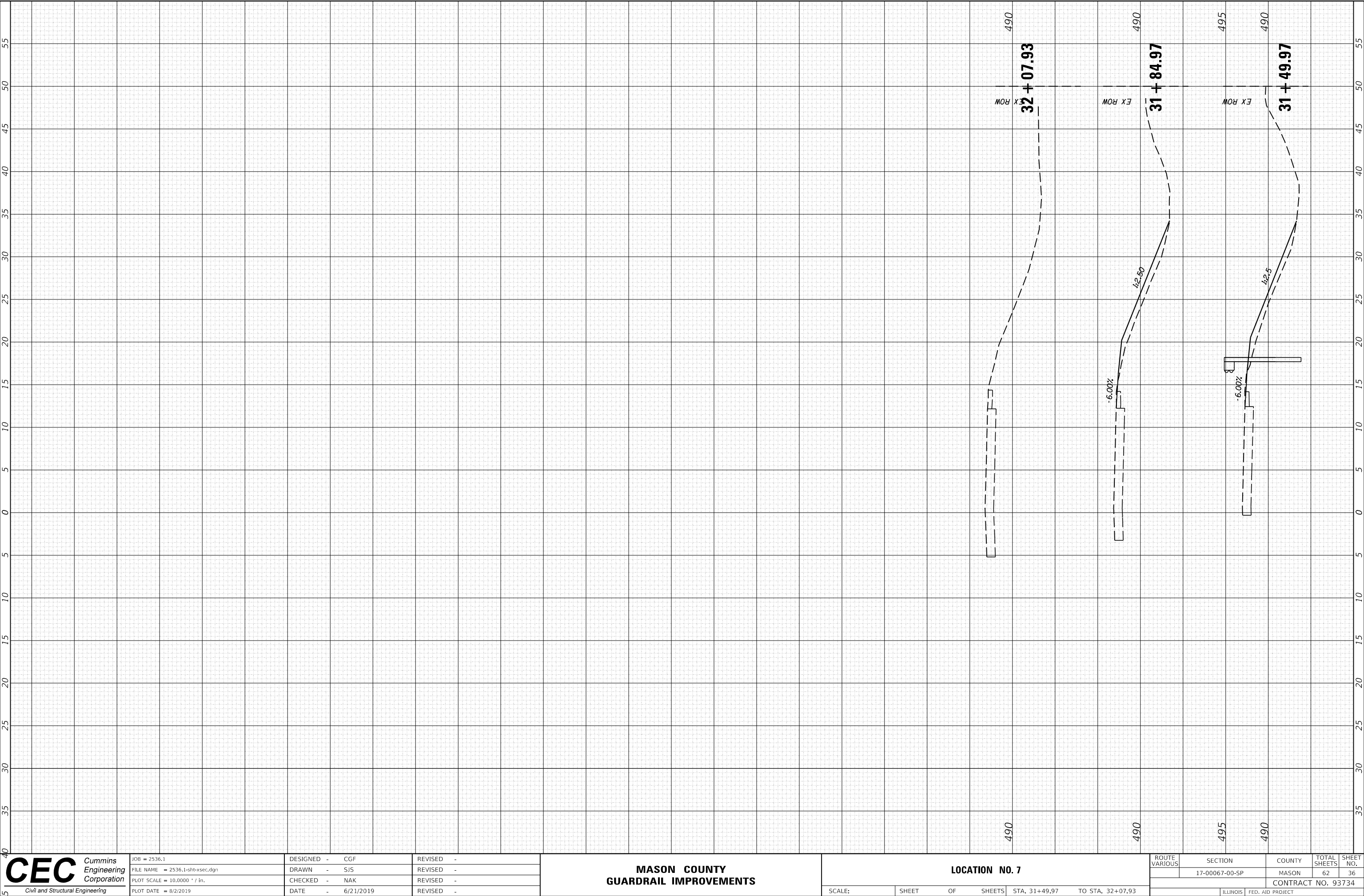


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB # = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 7					ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			SCALE: SHEET OF SHEETS STA. 25+50.00 TO STA. 31+36.43											

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
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CEC
Civil and Structural Engineering

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

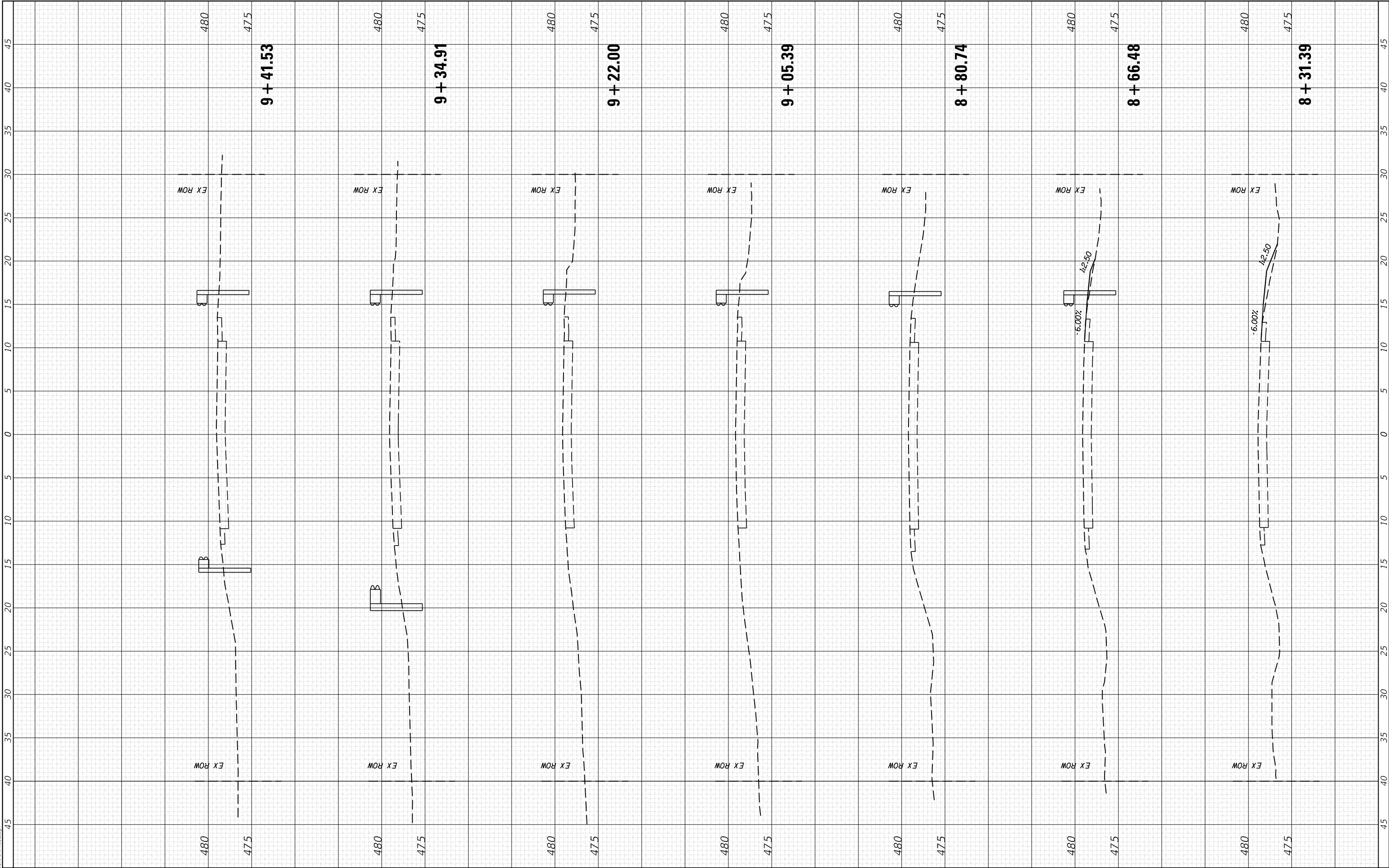
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SCALE:	SHEET	OF	SHEETS
TO STA. 31+49.97		TO STA. 32+07.93	

ROUTE VARIOUS	SECTION 17-00067-00-SP	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 36
CONTRACT NO. 93734				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn

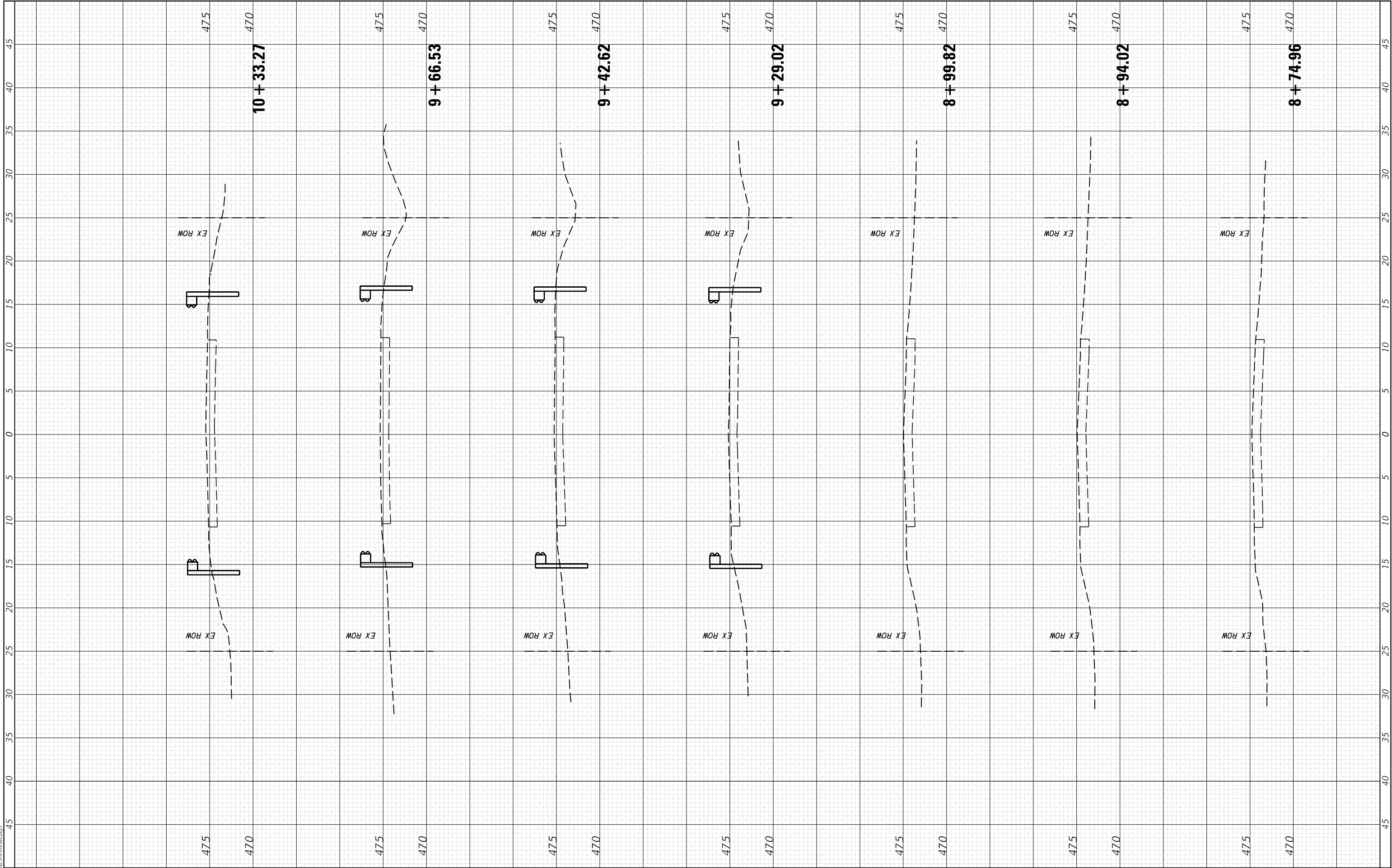


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 8EW				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2536.1-sh-t-xsec.dgn	DRAWN - SJS	REVISED -							17-00067-00-SP	MASON	62	37
	PLOT SCALE = 10,0000 ' / in.	CHECKED - NAK	REVISED -							CONTRACT NO. 93734			
	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -							ILLINOIS FED. AID PROJECT			
	SCALE:	SHEET	OF	SHEETS	STA. 8+31.39	TO STA. 9+41.53							

FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 9					ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2536.1-sh-t-xsec.dgn	DRAWN - SJS	REVISED -								17-00067-00-SP	MASON	62	38
	PLOT SCALE = 10,0000 ' / in.	CHECKED - NAK	REVISED -		CONTRACT NO. 93734									
	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 8+74.96	TO STA. 10+33.27		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn

CEC

Civil and Structural Engineering

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

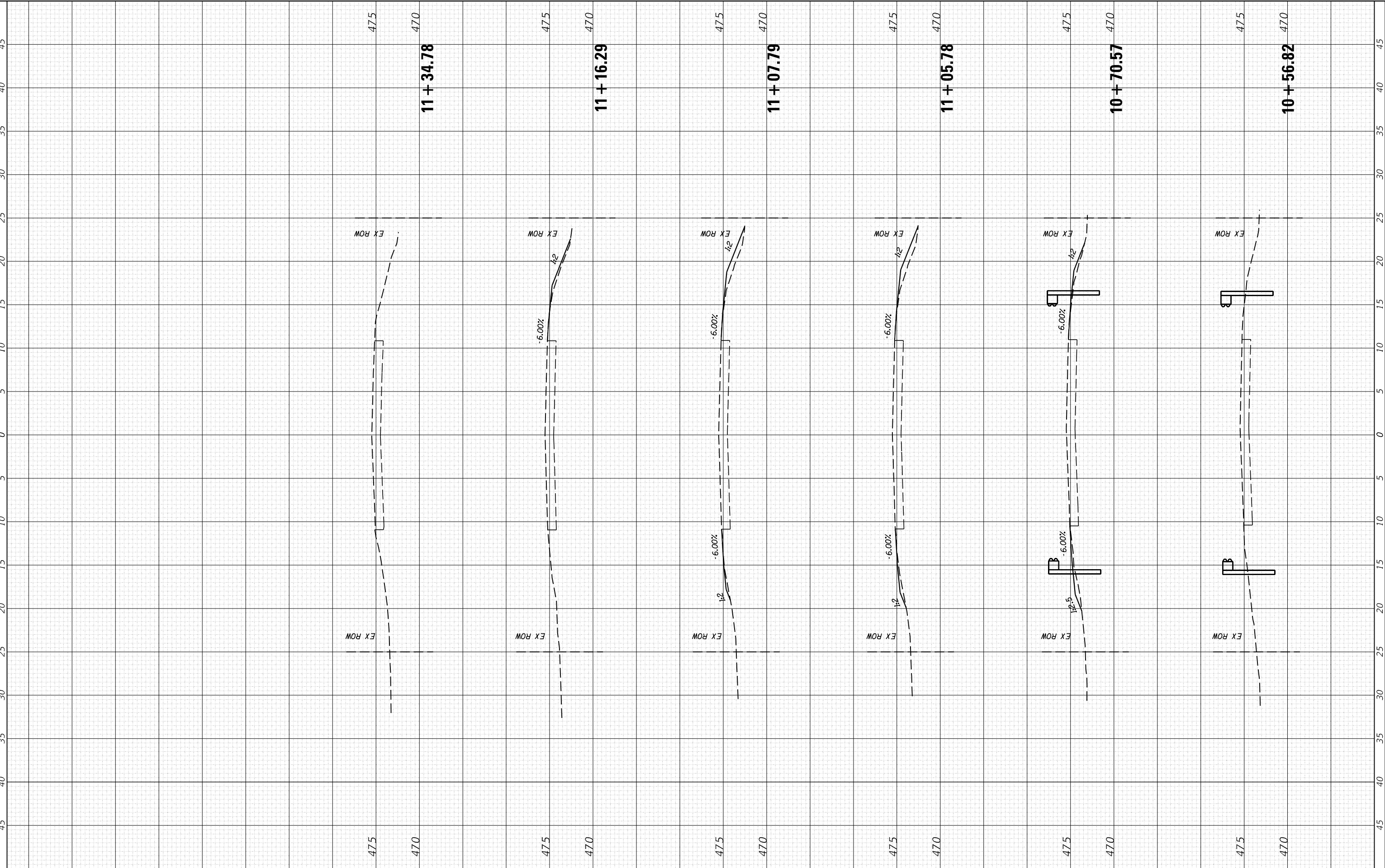
REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 9

SCALE:	SHEET	OF	SHEETS	STA. 10+56.82	TO STA. 11+34.78
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	39
		CONTRACT NO. 93734		
ILLINOIS		FED. AID PROJECT		



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn

CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO.10

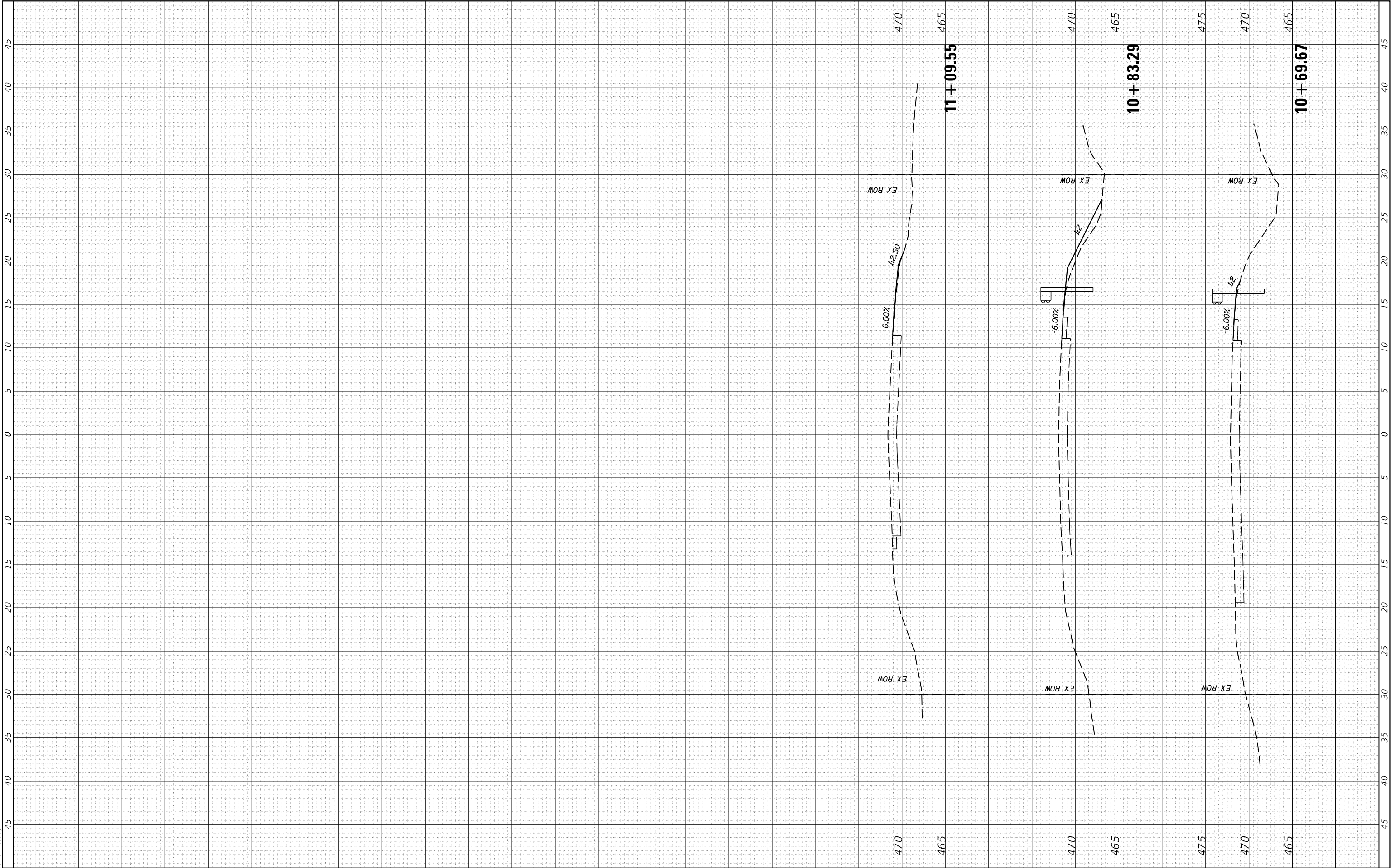
SCALE: SHEET OF SHEETS STA. 9+00.20 TO STA. 10+33.30

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	40
		CONTRACT NO. 93734		
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC

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Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1

FILE NAME = 2536.1-sh-xsec.dgn

PLOT SCALE = 10,0000 ' / in.

PLOT DATE = 8/2/2019

DESIGNED - CGF

DRAWN - SJS

CHECKED - NAK

DATE - 6/21/2019

REVISED -

REVISED -

REVISED -

REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 10

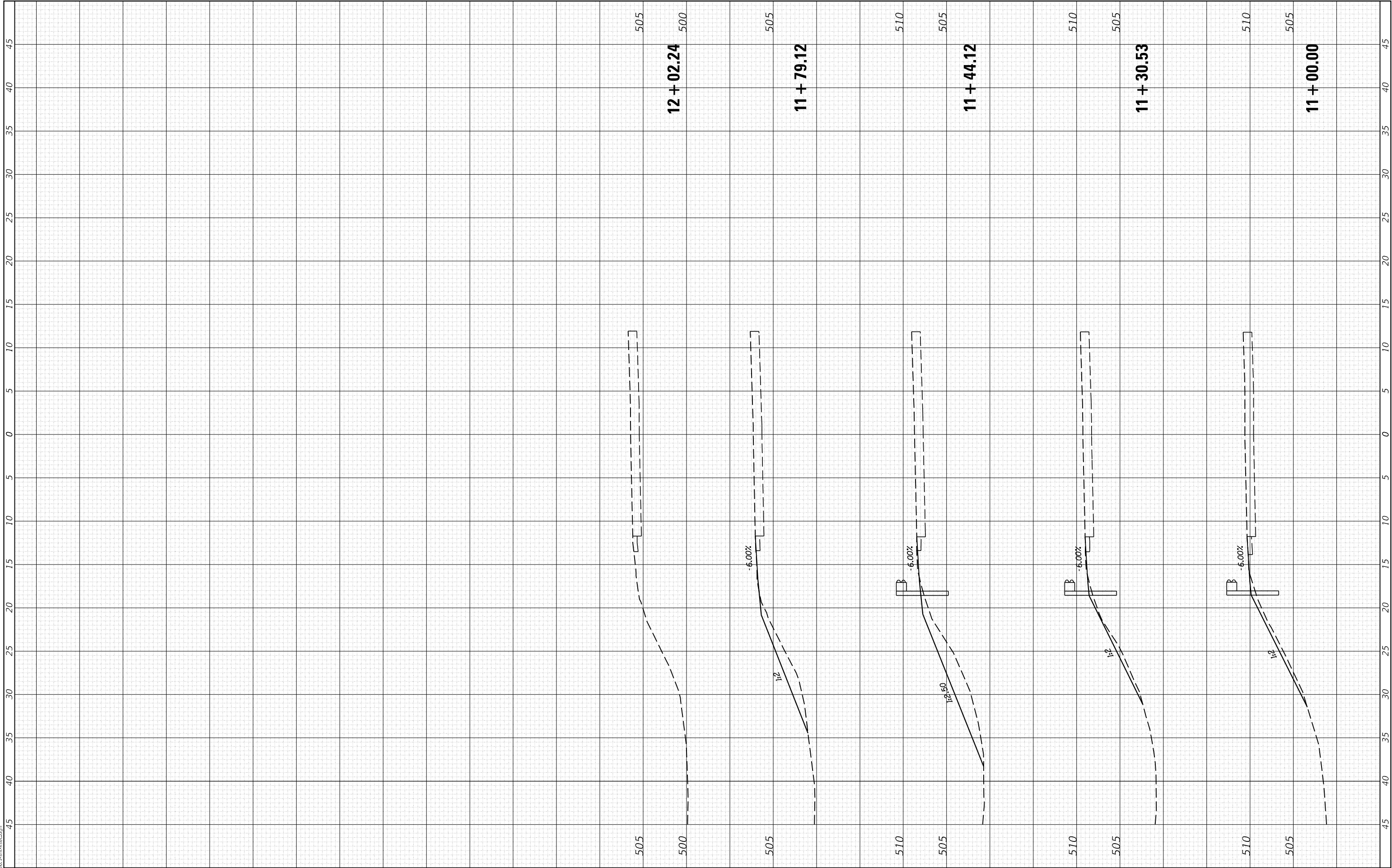
SCALE: SHEET OF SHEETS STA. 10+69.67 TO STA. 11+09.55

ROUTE VARIOUS	SECTION 17-00067-00-SP	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 41
			CONTRACT NO. 93734	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1

FILE NAME = 2536.1-sh-xsec.dgn

PLOT SCALE = 10.0000 ' / in.

PLOT DATE = 8/2/2019

DESIGNED - CGF

DRAWN - SJS

CHECKED - NAK

DATE - 6/21/2019

REVISED -

REVISED -

REVISED -

REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 11

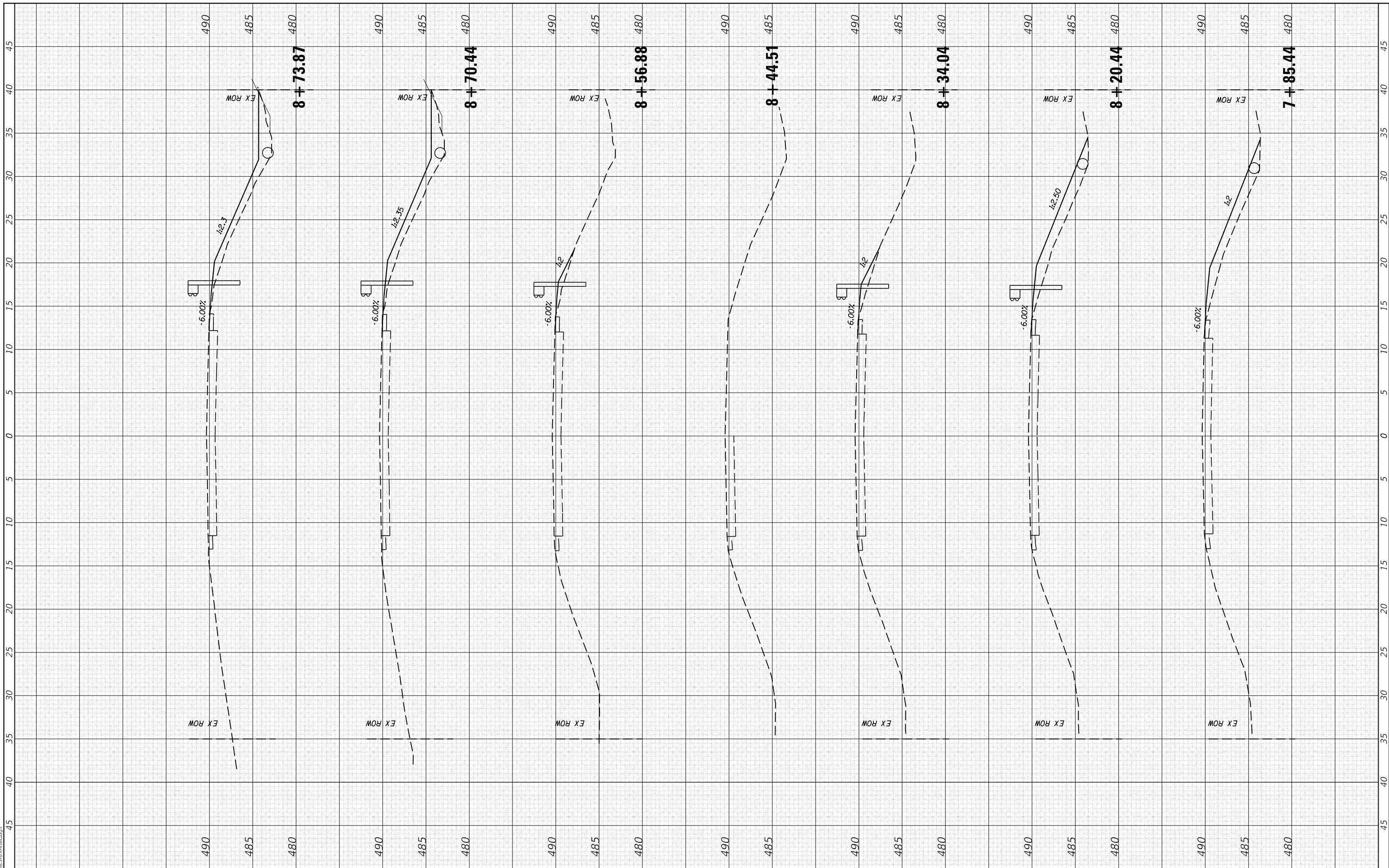
SCALE: SHEET OF SHEETS STA. 11+00.00 TO STA. 12+02.24

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	43
CONTRACT NO. 93734				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

ORIGINAL SURVEY		BY	DATE
NOTED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			
NO.			

MODEL: Default
FILE NAME: 2536.1-sht-xsec.dgn



 Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 12				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2536.1-sht-xsec.dgn	DRAWN - SJS	REVISED -								17-00067-00-SP	MASON	62
	PLOT SCALE = 10,0000 ' / in.	CHECKED - NAK	REVISED -			SCALE: SHEET OF SHEETS STA. 7+85.44 TO STA. 8+73.87				CONTRACT NO. 93734			
	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -										
ILLINOIS FED. AID PROJECT													

FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn

CEC

Civil and Structural Engineering

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

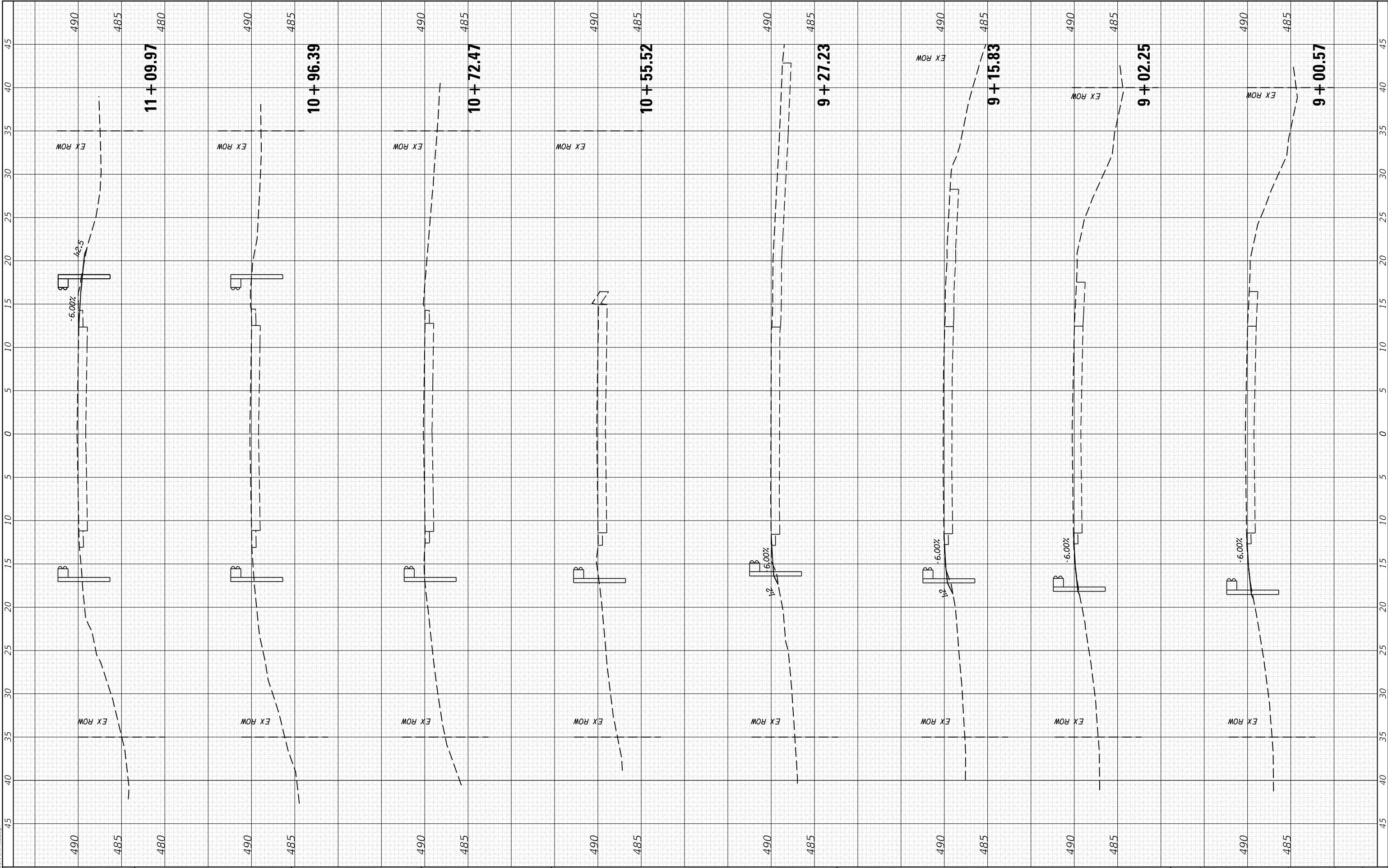
REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 12

SCALE:	SHEET	OF	SHEETS	STA. 9+00.57	TO STA. 11+09.97
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	45
		CONTRACT NO. 93734		
ILLINOIS		FED. AID PROJECT		



FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn

CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 12

SCALE:	SHEET	OF	SHEETS	STA. 11+29.43	TO STA. 12+01.33
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	46
		CONTRACT NO. 93734		
ILLINOIS		FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
	NO. _____		
NOTE BOOK			

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2536.1
FILE NAME = 2536.1-sht-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

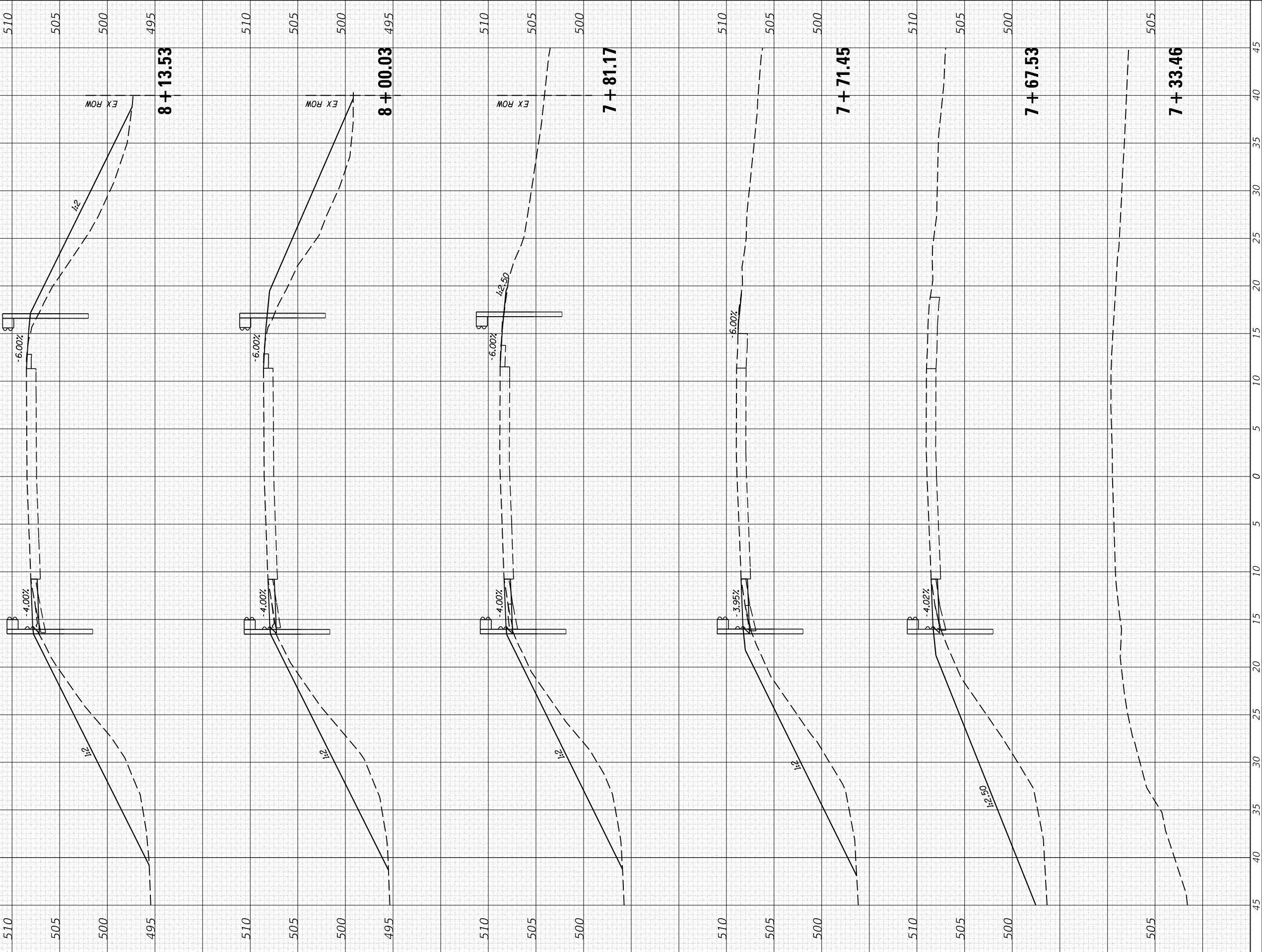
DESIGNED	-	CGF
DRAWN	-	SJS
CHECKED	-	NAK
DATE	-	6/21/2019

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LOCATION NO. 13

SCALE:	SHEET	OF	SHEETS	STA. 7+33.46	TO STA. 8+13.53
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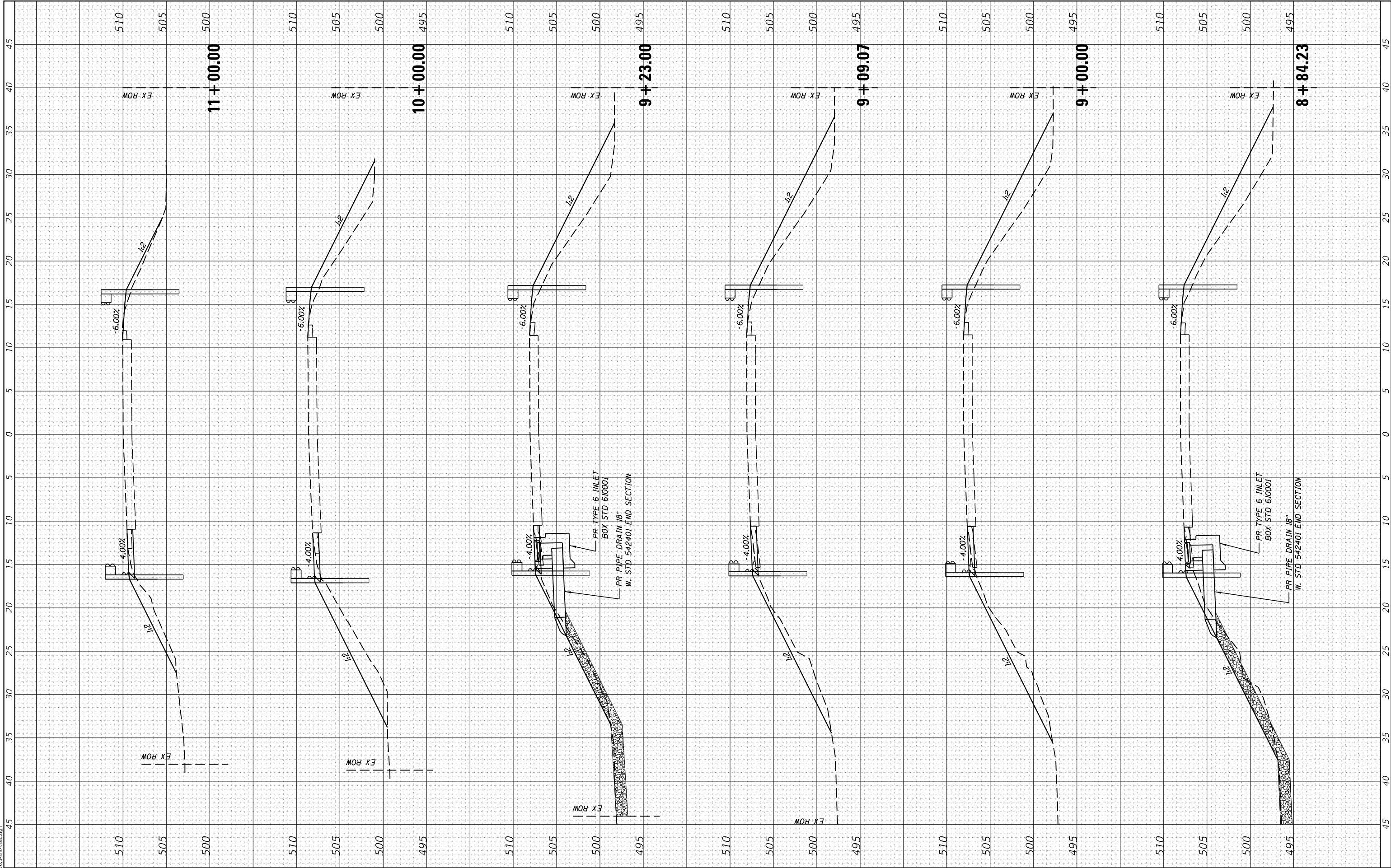
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00067-00-SP	MASON	62	47
		CONTRACT NO. 93734		
ILLINOIS		FED. AID PROJECT		



FINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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FILE NAME: 2536.1-sh-t-xsec.dgn

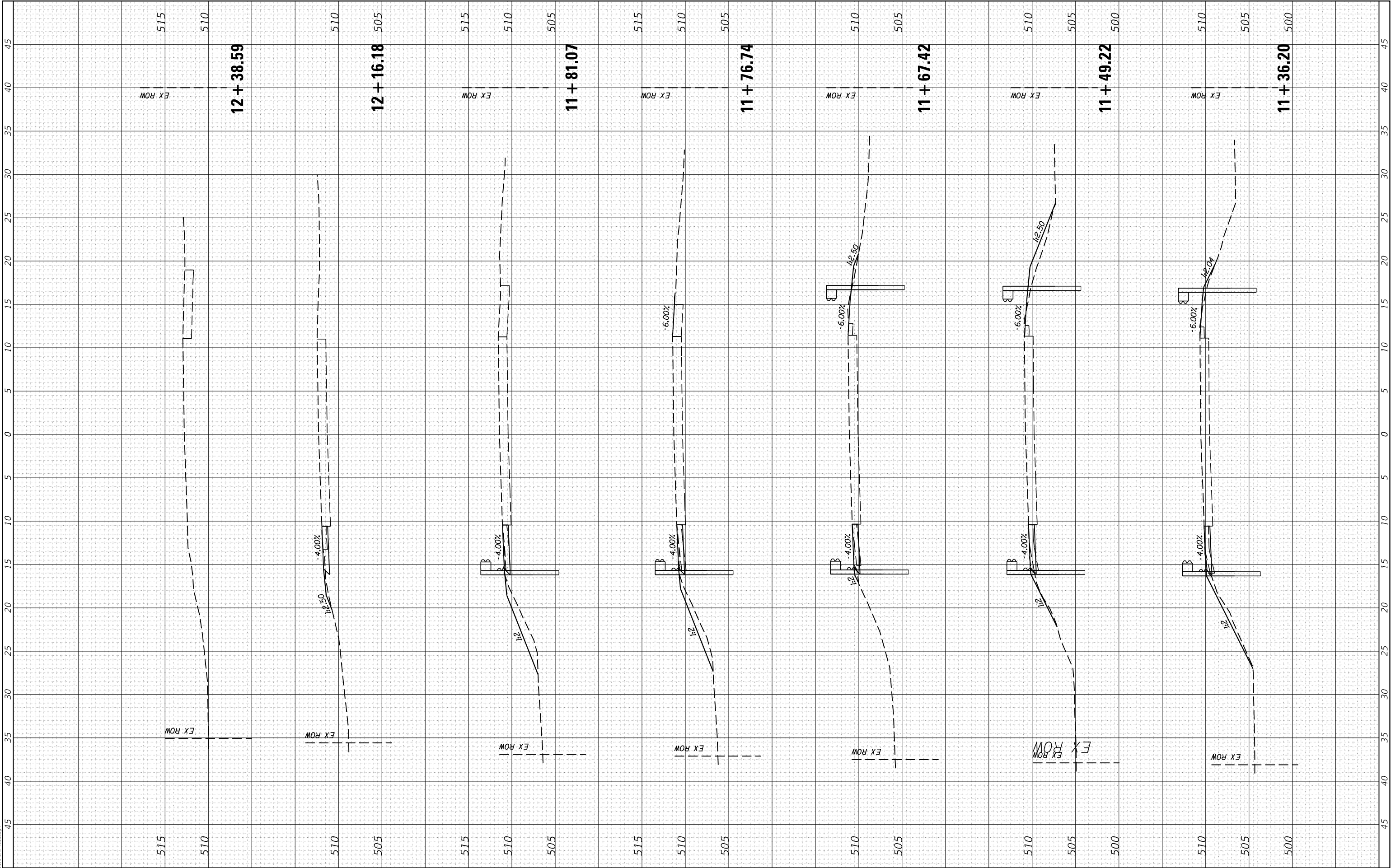


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 13				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -						SCALE:	SHEET	OF	SHEETS	STA. 8+84.23

FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-t-xsec.dgn

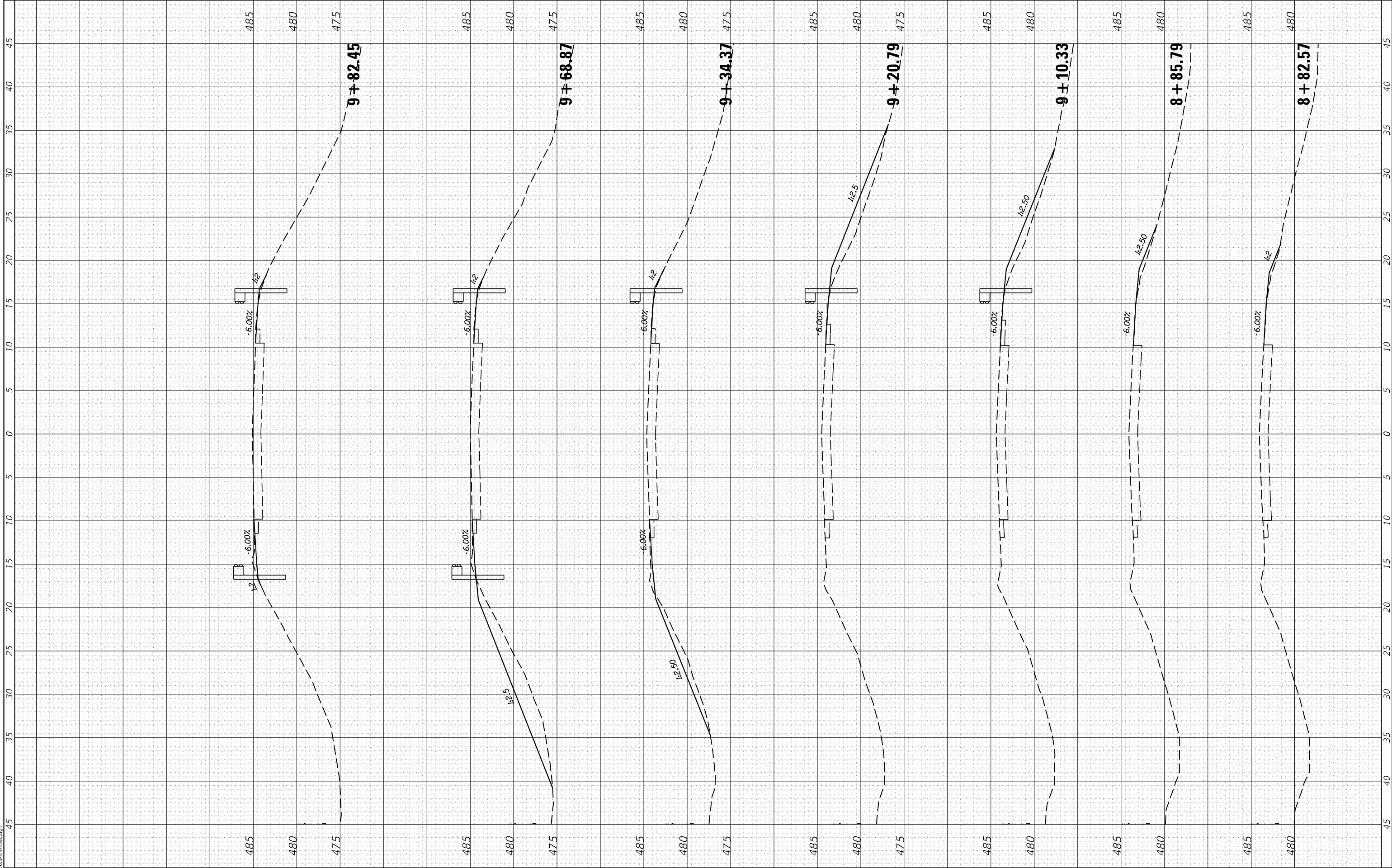


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 13				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/21/2019		DATE - 6/21/2019						REVISED -				
SCALE:					SHEET	OF	SHEETS	STA. 11+36.20	TO STA. 12+38.59				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

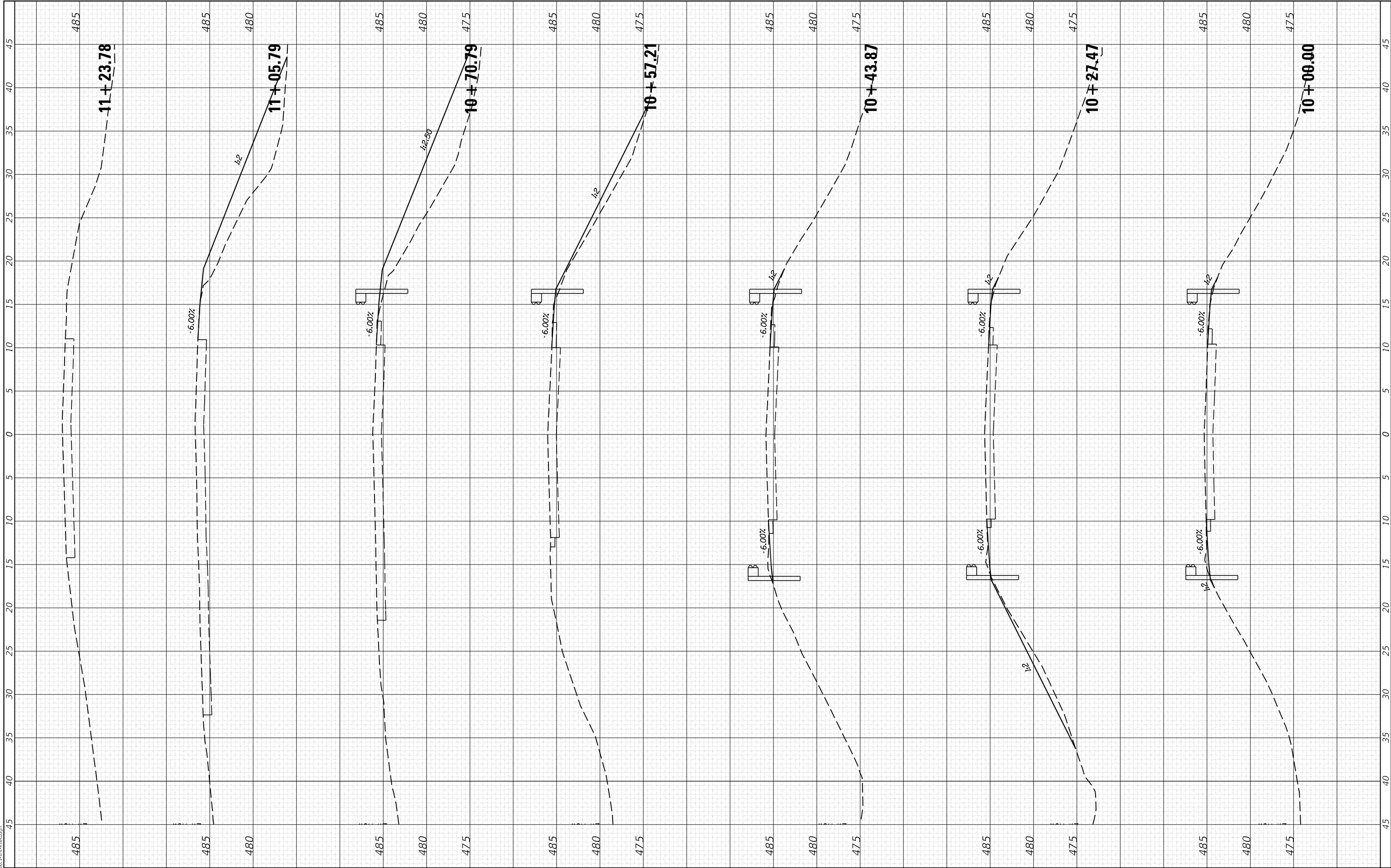
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FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC
Civil and Structural Engineering

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10,000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO.15 & 16

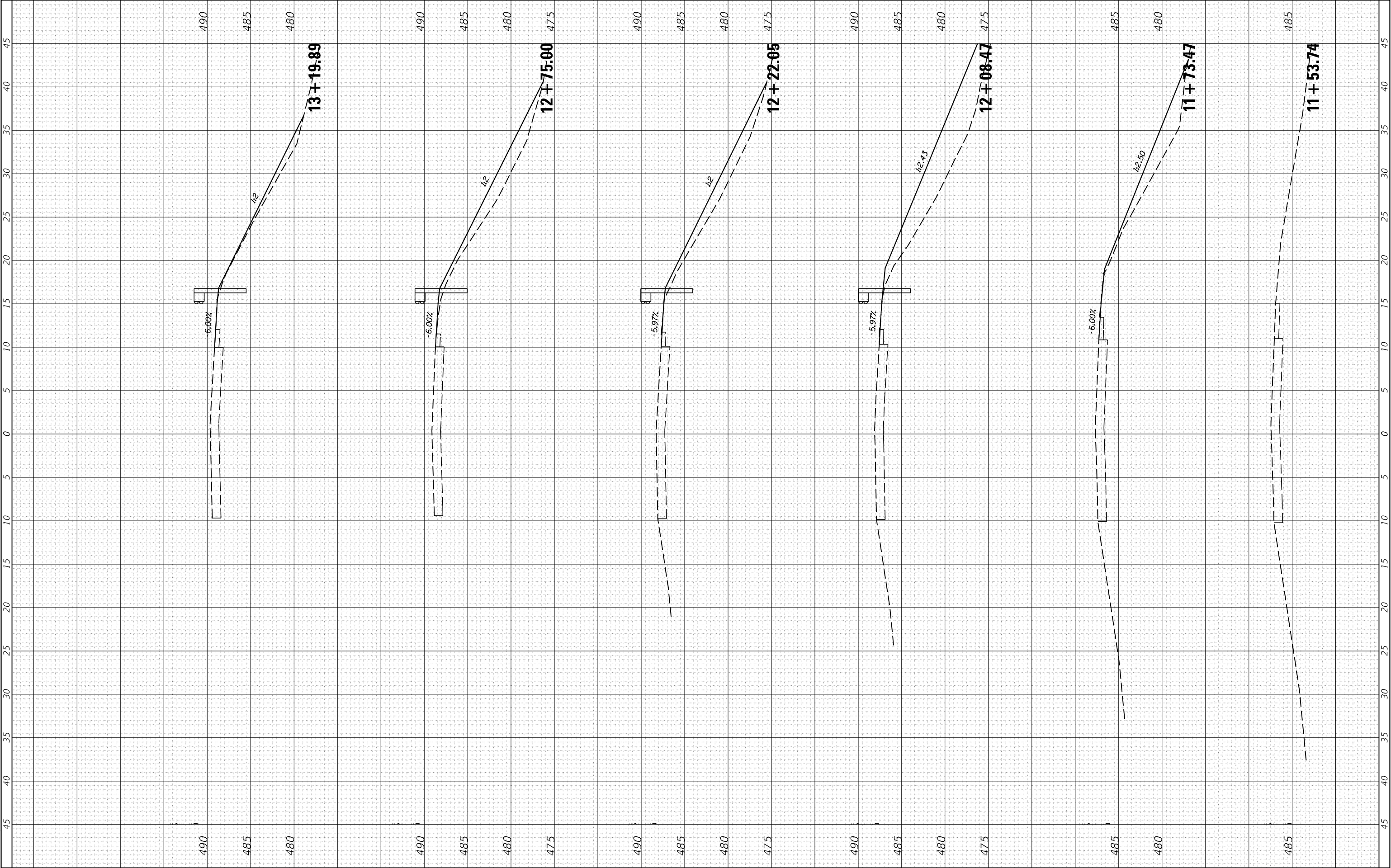
SCALE: SHEET OF SHEETS STA. 10+00.00 TO STA. 11+23.78

ROUTE VARIOUS	SECTION 17-00067-00-SP	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 51
ILLINOIS			FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

MODEL Default
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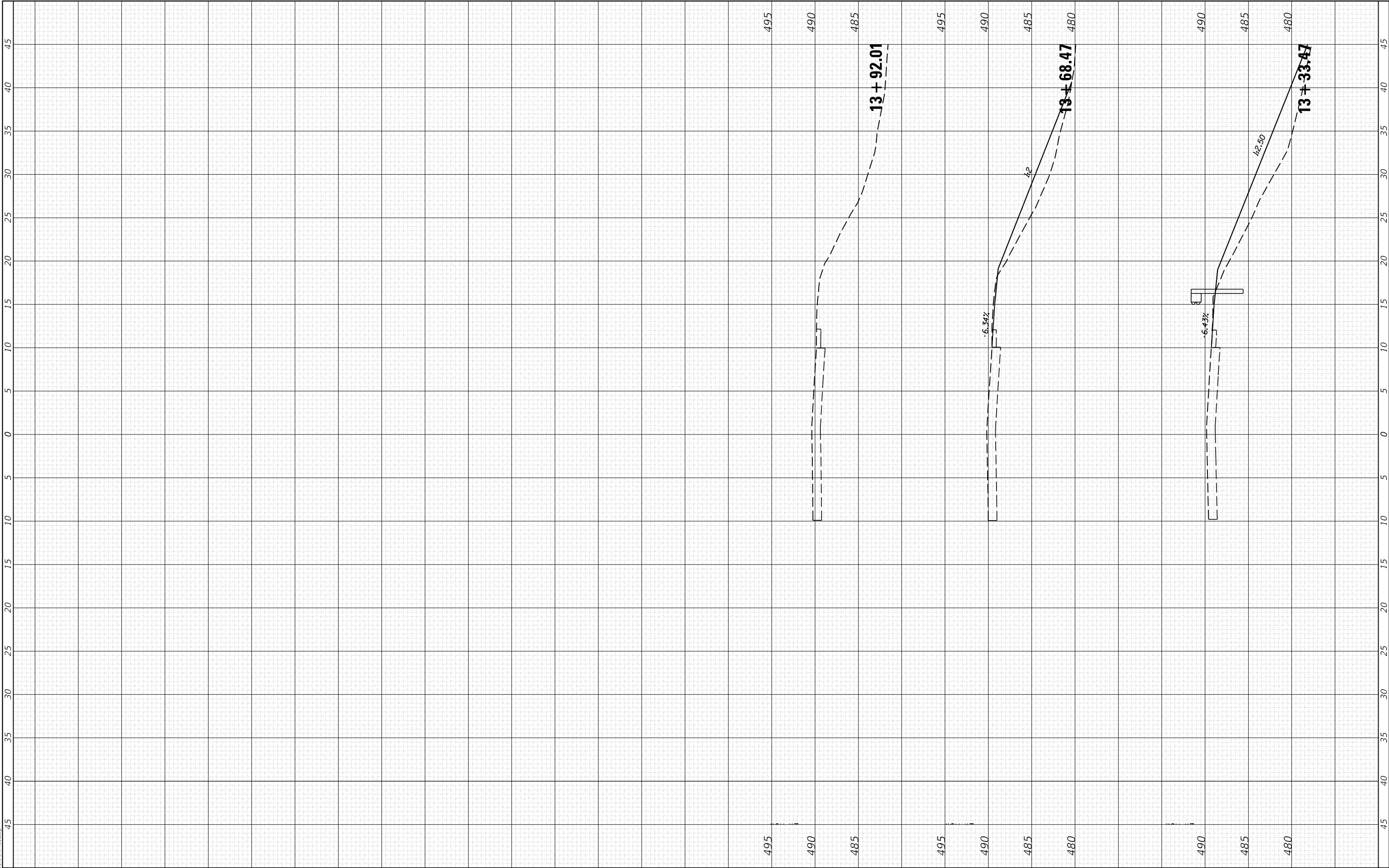


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO.15 & 16					ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 11+53.74	TO STA. 13+19.89	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	DATE	
		BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	DATE	
		BY	DATE

MODEL Default
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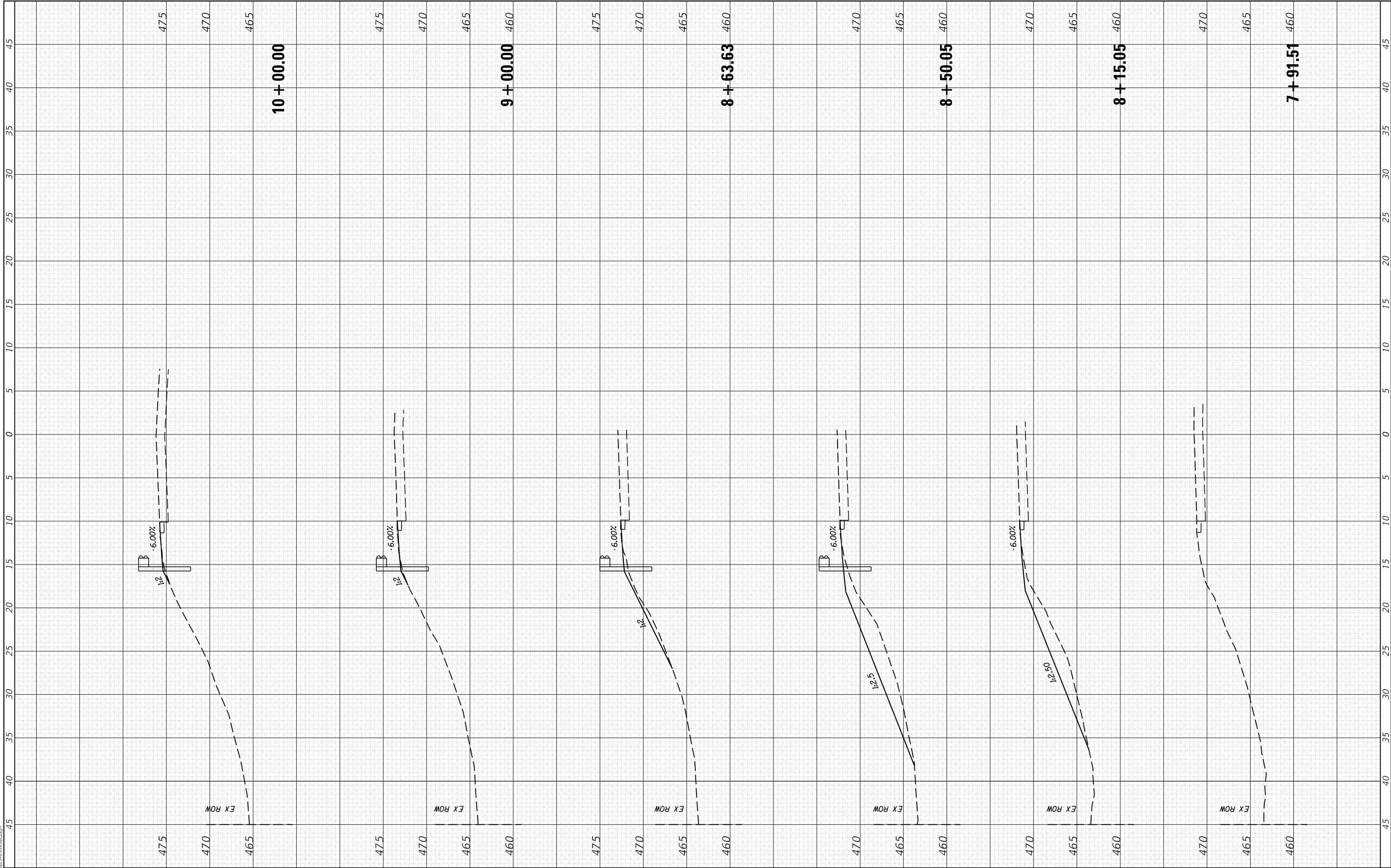


CEC Cummins Engineering Corporation <i>Civil and Structural Engineering</i>	JOB # = 2536.1		DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 15 & 16			ROUTE VARIOUS	SECTION 17-00067-00-5P	COUNTY MASON	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2536.1-sh-xsec.dgn		DRAWN - SJS	REVISED -								62	53
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	PLOT DATE = 8/2/2019		DATE - 6/21/2019	REVISED -							ILLINOIS FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
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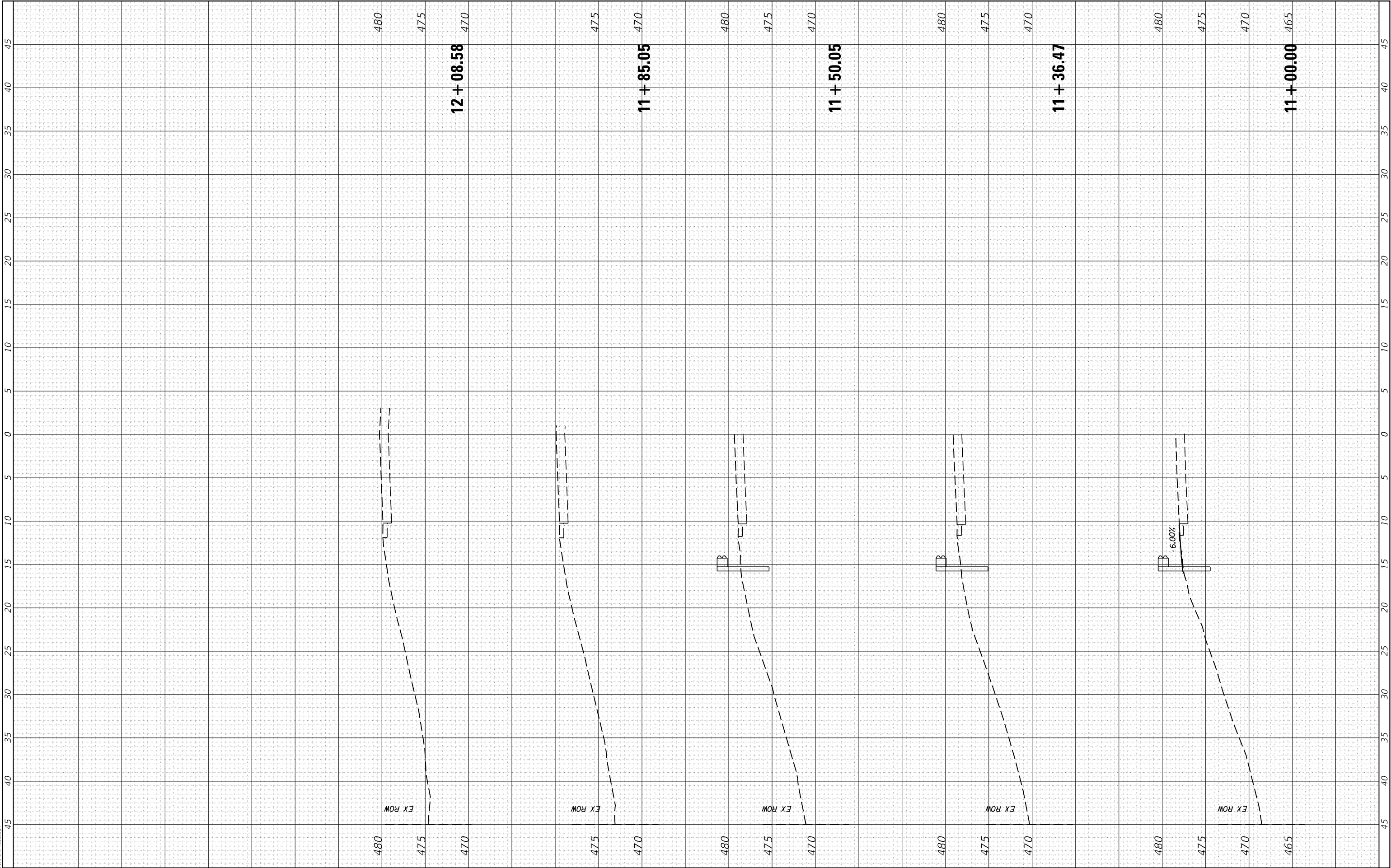


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 17				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 10.0000 ' / in.	CHECKED - NAK	REVISED -							CONTRACT NO. 93734			
	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -										
SCALE:		SHEET	OF	SHEETS	STA. 7+91.51	TO STA. 10+00.00						ILLINOIS	FED. AID PROJECT

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1

FILE NAME = 2536.1-sh-xsec.dgn

PLOT SCALE = 10.0000 ' / in.

PLOT DATE = 8/2/2019

DESIGNED - CGF

DRAWN - SJS

CHECKED - NAK

DATE - 6/21/2019

REVISED -

REVISED -

REVISED -

REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 17

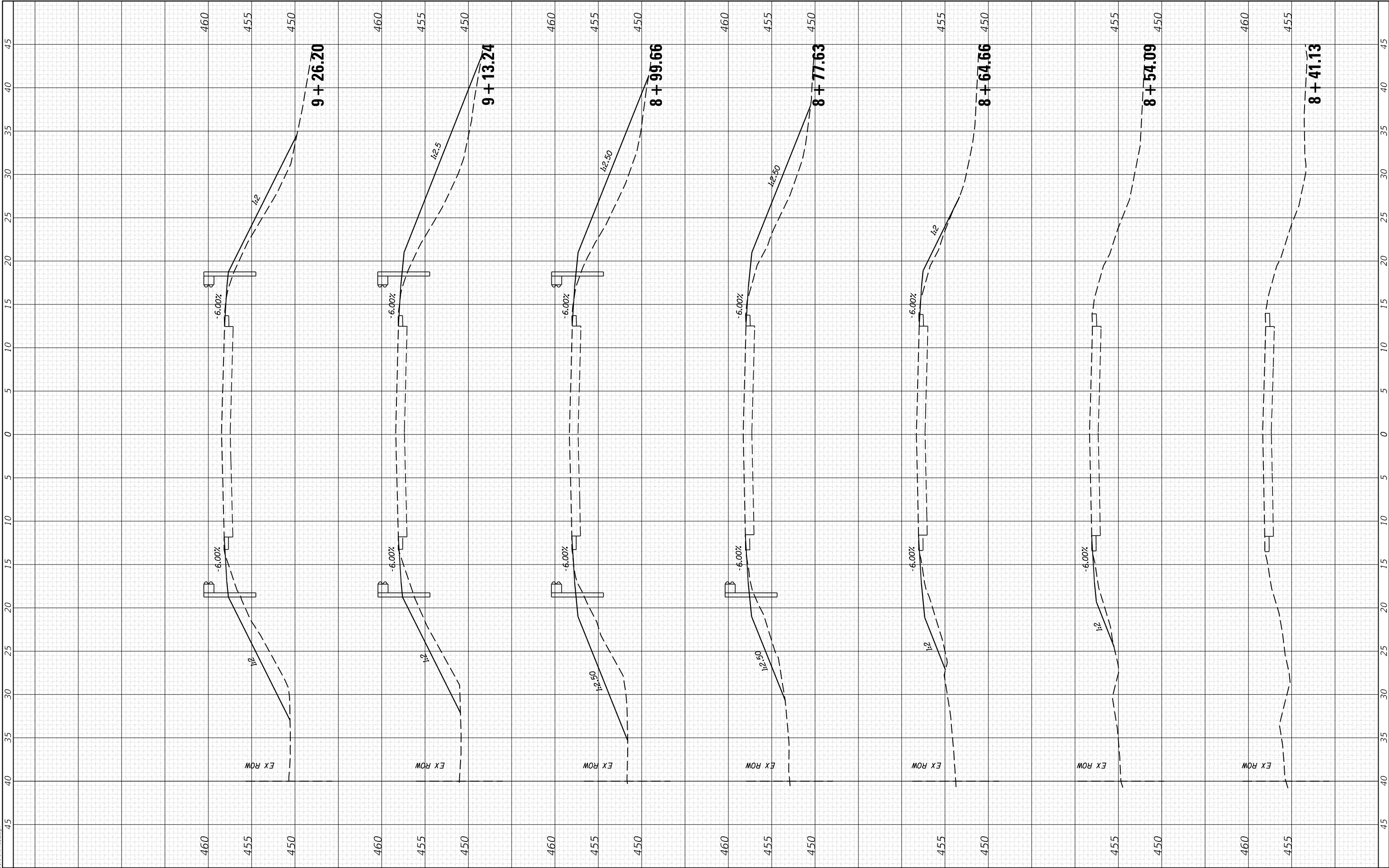
SCALE: SHEET OF SHEETS STA. 11+00.00 TO STA. 12+08.58

ROUTE VARIOUS	SECTION 17-00067-00-5P	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 55
ILLINOIS			FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED NOTE BOOK	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC
Civil and Structural Engineering

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10,0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 20

SCALE: SHEET OF SHEETS STA. 8+41.13 TO STA. 9+26.20

ROUTE VARIOUS	SECTION 17-00067-00-SP	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 56
		CONTRACT NO. 93734		
		ILLINOIS	FED. AID PROJECT	

FINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn

CEC

Cummins
Engineering
Corporation

Civil and Structural Engineering

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

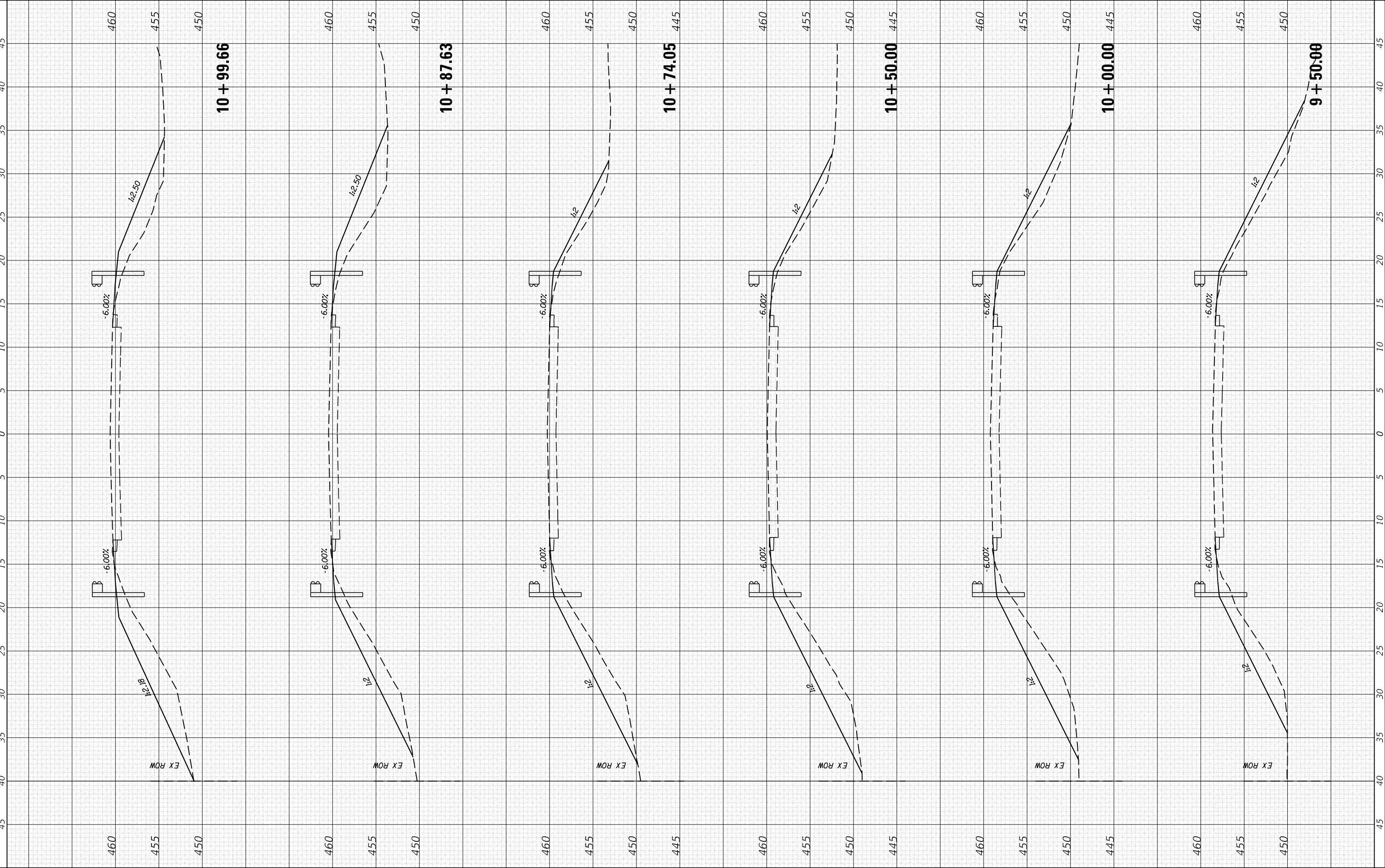
REVISED -
REVISED -
REVISED -
REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 20

SCALE:	SHEET	OF	SHEETS	STA. 9+50.00	TO STA. 10+99.66
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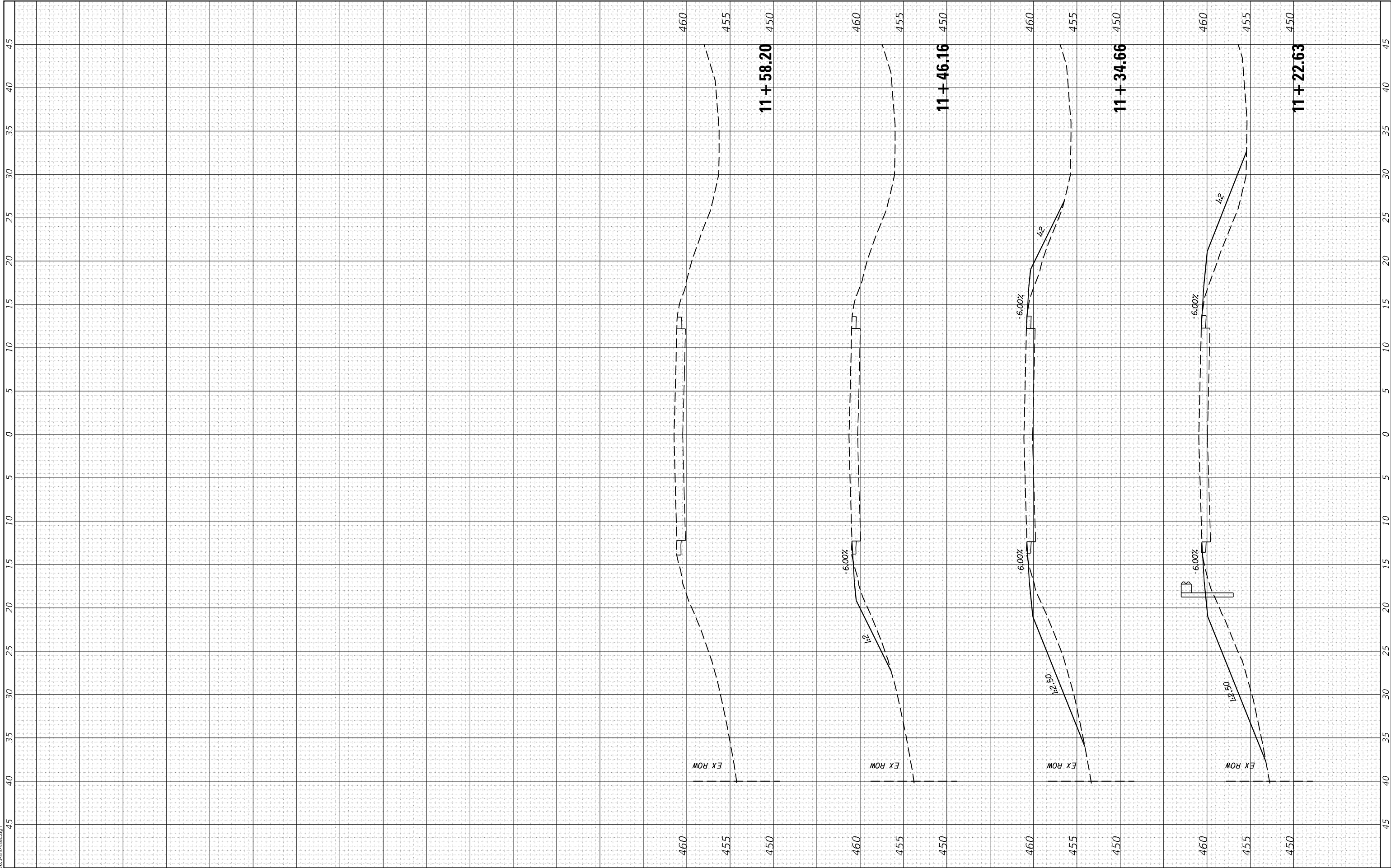
ROUTE	SECTION	COUNTY	TOTAL	SHEET
VARIOUS			SHEETS	NO.
	17-00067-00-SP	MASON	62	57
CONTRACT NO. 93734				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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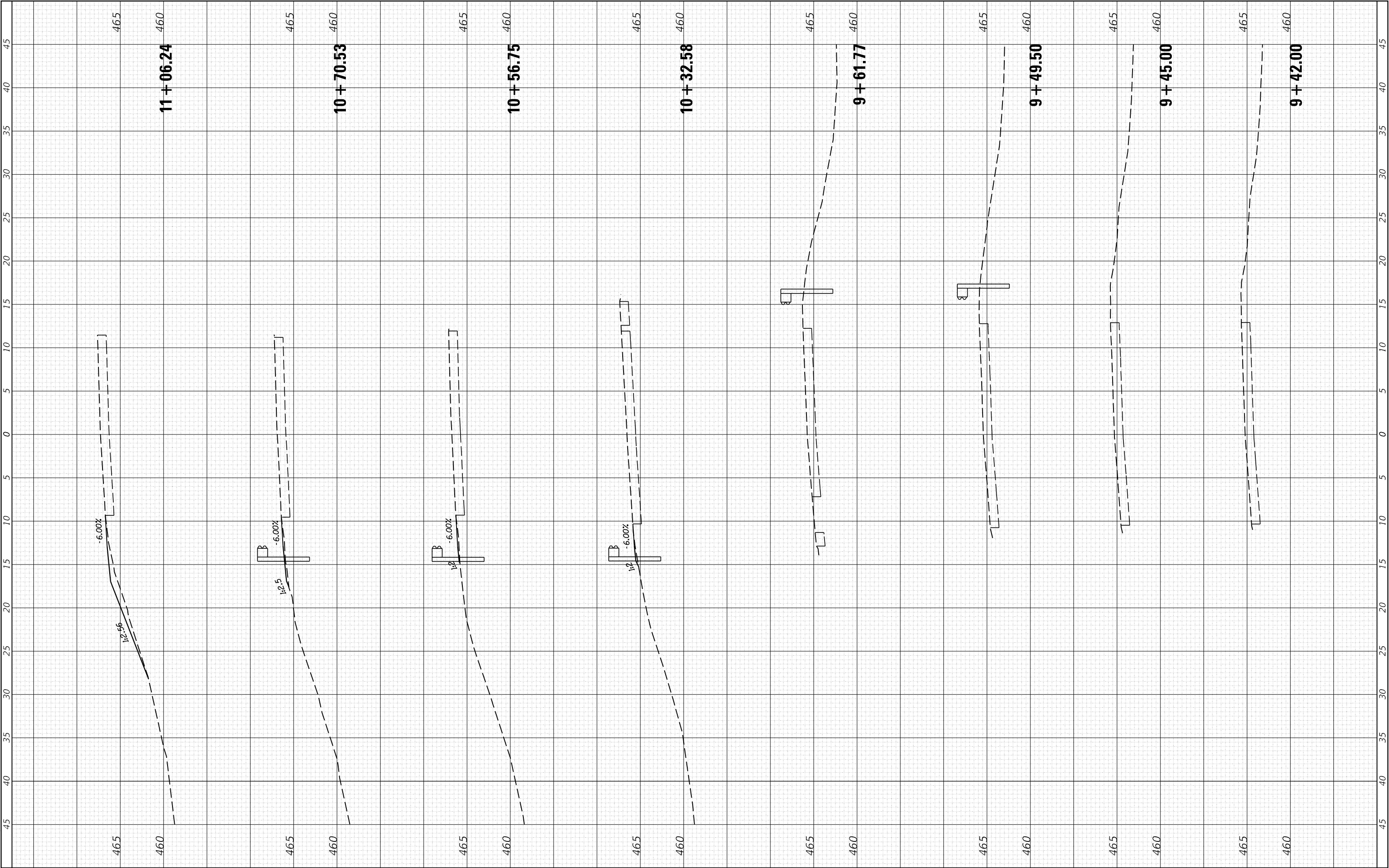


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 20				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/2/2019	DATE - 6/21/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 11+22.63	TO STA. 11+58.20			

FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC
Civil and Structural Engineering

Cummins
Engineering
Corporation

JOB = 2536.1
FILE NAME = 2536.1-sh-xsec.dgn
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 8/2/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2019

REVISED -
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REVISED -

MASON COUNTY
GUARDRAIL IMPROVEMENTS

LOCATION NO. 23

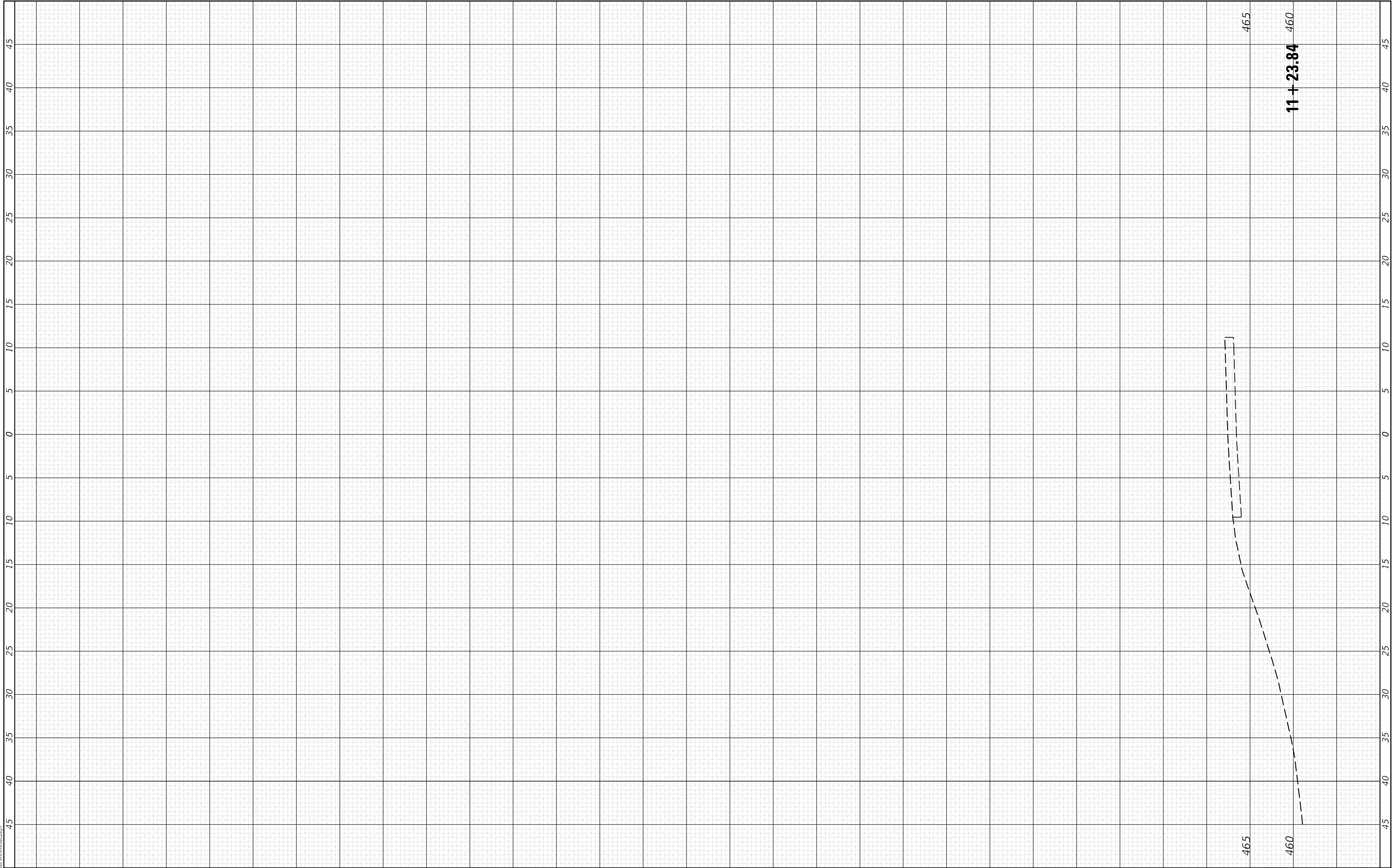
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ROUTE VARIOUS	SECTION 17-00067-00-SP	COUNTY MASON	TOTAL SHEETS 62	SHEET NO. 59
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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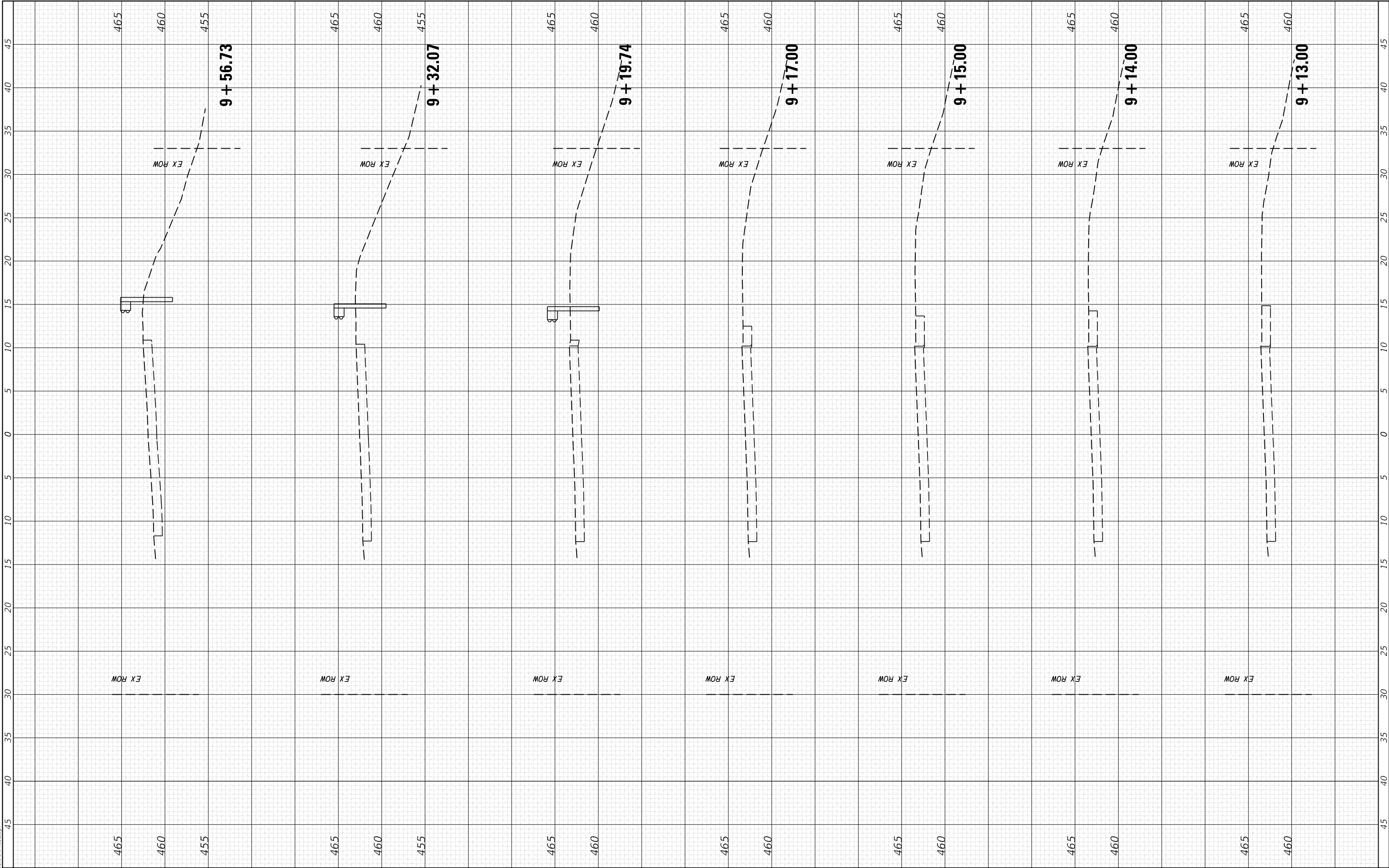


CEC Cummins Engineering Corporation <i>Civil and Structural Engineering</i>	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 23				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL Default
FILE NAME: 2536.1-sh-xsec.dgn



CEC

Cummins
Engineering
Corporation

DESIGNED - CGF

DRAWN - SJS

CHECKED - NAK

DATE - 6/21/2019

JOB = 2536.1

FILE NAME = 2536.1-sh-xsec.dgn

PLOT SCALE = 10,0000 ' / in.

PLOT DATE = 8/2/2019

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MASON COUNTY

GUARDRAIL IMPROVEMENTS

LOCATION NO. 24

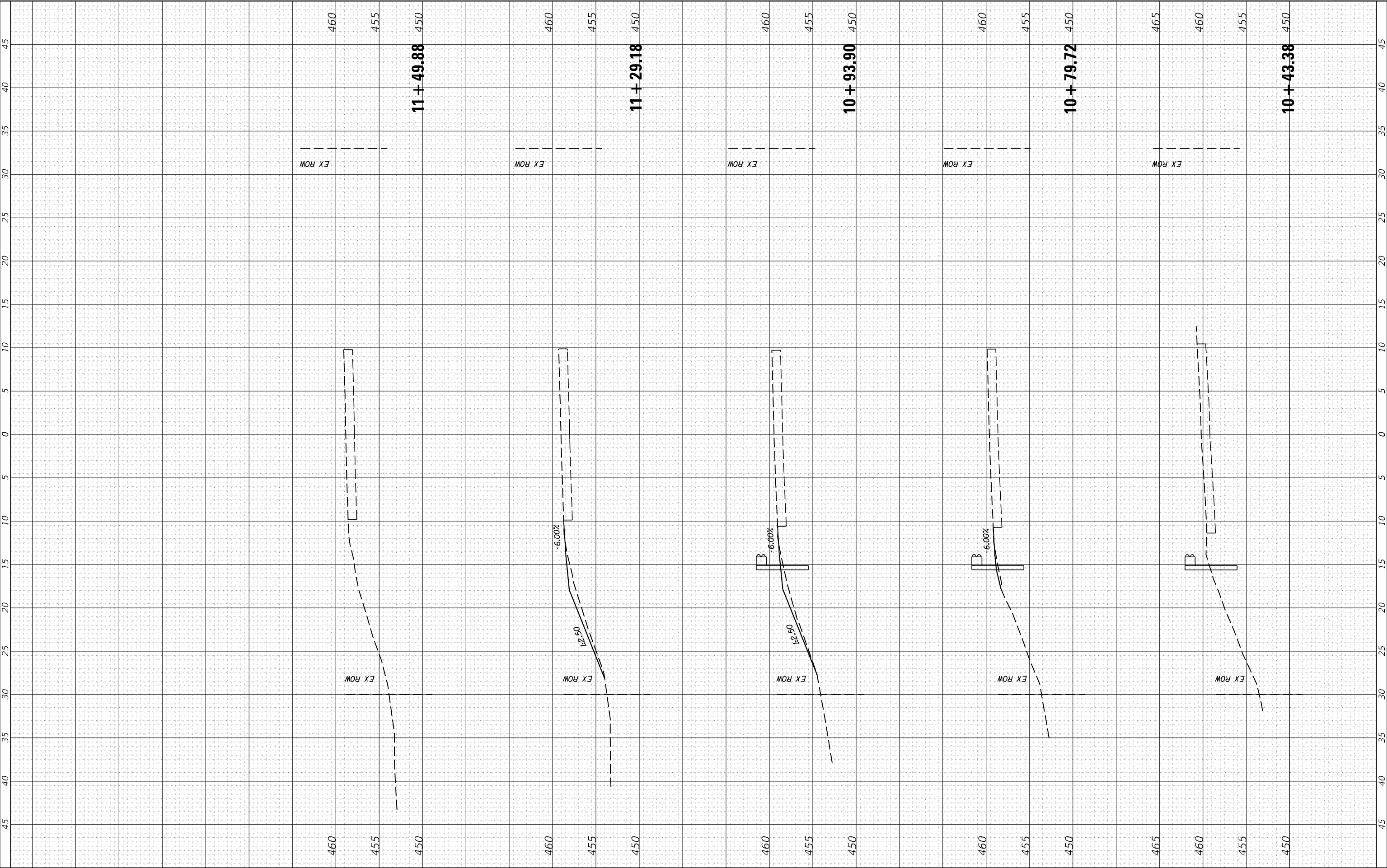
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 93734		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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FILE NAME: 2536.1-sh-xsec.dgn



CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2536.1	DESIGNED - CGF	REVISED -	MASON COUNTY GUARDRAIL IMPROVEMENTS	LOCATION NO. 24				ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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										ILLINOIS	FED. AID PROJECT		