

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11	(106)SLP,CLV	MARSHALL	28	1
ILLINOIS CONTRACT NO. 68F51				

INDEX OF SHEETS

- 1 COVER SHEET
- 2 COMMITMENTS AND GENERAL NOTES
- 3 STATUS OF UTILITIES
- 4-6 SUMMARY OF QUANTITIES
- 7 SCHEDULE OF QUANTITIES
- 8 TYPICAL SECTION
- 9 PLAN AND PROFILE SHEET
- 10 PLAN SHEET
- 11-21 CROSS SECTIONS
- 22-28 DISTRICT 4 STANDARDS

HIGHWAY STANDARDS

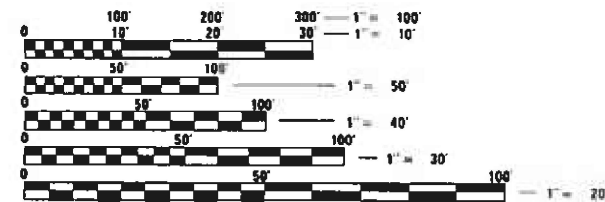
- 280001-07
- 630001-12
- 666001-01
- 701001-02
- 701006-05
- 701011-04
- 701201-05
- 701901-08
- 725001-01
- 782006-01

FUNCTIONAL CLASSIFICATION

RURAL MINOR ARTERIAL

2019 ADT = 1050

P.V. = 75.23% S.U. = 6.67% M.U. = 18.10%



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 EXCAVATORS
1-800-892-0123
OR 811

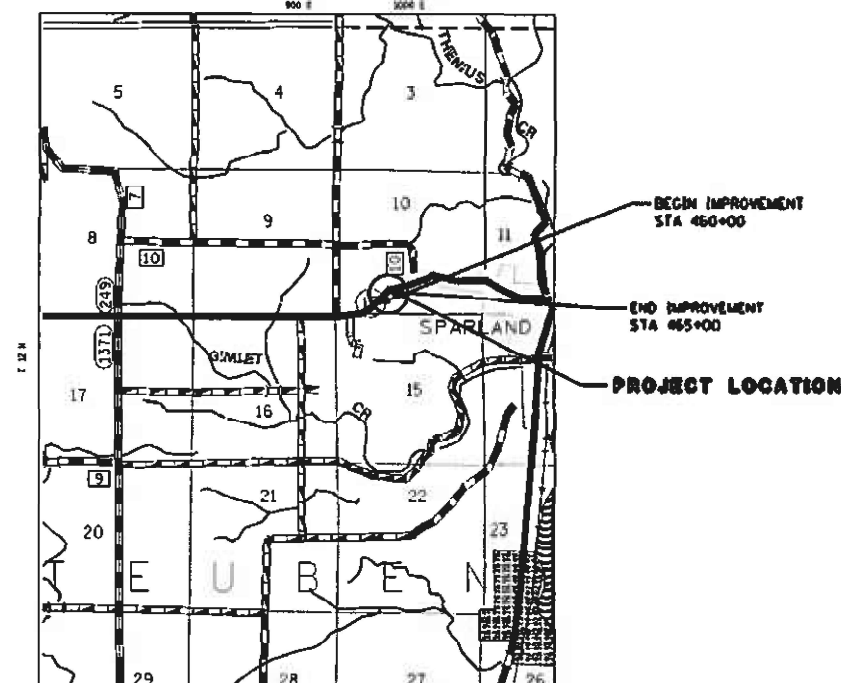
PROJECT ENGINEER RICH DOTSON 309-671-3455
PROJECT MANAGER MICHAEL JACOBS 309-671-3474

CATALOG NO. 035402-00D
CONTRACT NO. 68F51

**PROPOSED
HIGHWAY PLANS**

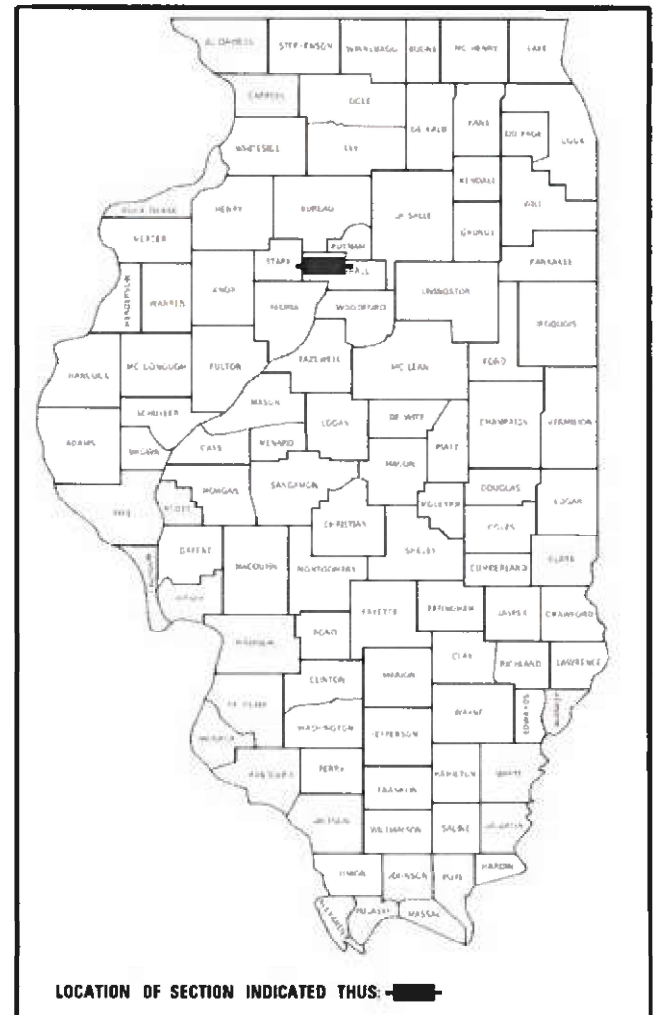
F.A.P. ROUTE 645 (IL ROUTE 17)
SECTION (106)SLP,CLV
PROJECT CULVERT EXTENSION
& SLOPE REPAIR
MARSHALL COUNTY

C-94-062-20



GROSS LENGTH OF PROJECT = 500 LIN. FT. = 0.095 MILES
NET LENGTH OF PROJECT = 500 LIN. FT. = 0.095 MILES

D-94-041-20



LOCATION OF SECTION INDICATED THUS: [Symbol]

DESCRIPTION OF WORK:

SHOULDER AND FORESLOPE REPAIR, REPLACEMENT AND REPAIR OF EXISTING GUARDRAIL, AND CULVERT EXTENSIONS ALONG IL 17.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED September 1, 2022

[Signature] REGIONAL ENGINEER

October 14, 2022

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

105.06 AVAILABILITY OF ELECTRONIC FILES

Micro Station and GEOPAK files of this project will be made available to the Contractor after contract award. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

105.07 TREE REMOVAL – UTILITY RELOCATION

Tree removal may be necessary prior to utility companies being able to relocate their facilities outside the construction limits. The Contractor should coordinate any contract tree removal activities with the utility companies to eliminate conflicts and potential delays caused by utility tree removal activities or incomplete utility relocations.

107.00 COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. The following commitments were agreed to:

Mr. & Mrs. Heinz shall be notified at least 30 days before the start of any new construction along their property line. They requested to be notified at (309) 671-3222.

107.09 PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

201.00 TREE REMOVAL RESTRICTION

Due to the potential presence of endangered bats no tree removal will be allowed on this project between April 1st and September 30th.

201.01 CLEARING

At locations where clearing is indicated on the plans beyond the limits of the proposed excavation or embankment, the Contractor shall restore the disturbed earth by blading and shaping to blend with the adjacent ground. The clearing will not be paid for separately but shall be included in the cost of the excavation pay items in the plans. Payment for reseeding or resodding will be as provided in the plans.

201.04 TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

204.00 ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form-D4 P10101

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

250.01 SEEDING – SIDESLOPE RIPPING

All slopes steeper than 3 to 1 and over 15 ft. (4.5 m) in height shall be ripped. This shall consist of ripping between 18 inches to 24 inches (450 mm to 600 mm) deep normal to the slope. The interval of ripping along the slope shall be 12 ft. (3.6 m). This work shall be done after the seed bed has been prepared but before any fertilizer or seed has been applied. The fertilizer and seed shall be applied within a 24-hour period after the ripping has been done. This work will not be paid for separately but will be included in the cost of the various items of seeding involved.

542.00 ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

602.00 EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES

In accordance with Section 602 of the Standard Specifications, the connecting of existing drain tiles, pipe culverts, or storm sewers to the proposed drainage system structures will not be paid for separately but shall be considered as included in the pay items provided.

666.00 RIGHT-OF-WAY MARKERS

When installing right-of-way markers, care shall be taken to not disturb any existing property/right-of-way pins. If a property/right-of-way pin is found at the location of a proposed right-of-way marker, the marker shall be placed one (1) foot in front of the pin.

701.01 ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

The Department reserves the right at any time to add additional Traffic Control Systems or devices within the active contract limits, by means of an additional contract. All terms of Article 105.08 of the Standard Specifications shall be followed by each Contractor.

PROJECT SPECIFIC NOTES:

1. The design fill height for this box is 15'. The precast box culvert end sections shall conform the requirements of ASTM C 1577
2. All debris and material requiring removal for earth work operations, including all broken and poured concrete, all wooden posts and guardrail used for temporary shoring, and all trash shall be removed from all slopes and properly disposed prior to placing earthwork, and shall be included in the cost of "EARTH EXCAVATION"

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	DRAWN -	REVISED -
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PLOT DATE = 10/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	2
CONTRACT NO. 68F51				
ILLINOIS FED. AID PROJECT				



Status of Utilities

Name of Utility Company

Village of Sparland
Ameren Electric
Frontier
Mediacom

Route	FAP 645 (IL 17)
Section	(106)SLP,CLV
County	Marshall
Contract No.	68F51
Catalog No.	035402-00D

Route	Offset	Location	Company & Type of Utility	Type of Conflict	Disposition
IL 17	Rt Varies 120'-140'	Entire Length	Village of Sparland Water Service	All work in new ROW	Caution
IL 17	Rt 25'	460+75	Ameren Electric Guy Line	New slope grade	Relocate
IL 17	Lt Varies	460+50 to 465+00	Frontier 200 Pr Copper	Ditch cut / Benching	Relocate
IL 17	Rt Varies	462+00 to 462+50	Mediacom Buried Fiber	Benching	Caution

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PLOT DATE = 9/2/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STATUS OF UTILITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	3
CONTRACT NO. 68F51				

ILLINOIS FED. AID PROJECT

CONSTR. CODE
0004
ROADWAY
MARSHAL
100% STATE
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20100500	TREE REMOVAL, ACRES	ACRE	0.91	0.91
20200100	EARTH EXCAVATION	CU YD	6843	6843
20400800	FURNISHED EXCAVATION	CU YD	2131	2131
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4786	4786
25000300	SEEDING, CLASS 3	ACRE	0.99	0.99
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	89	89
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	89	89
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	89	89
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4786	4786
28000400	PERIMETER EROSION BARRIER	FOOT	800	800
28100107	STONE RIPRAP, CLASS A4	SQ YD	510	510
28200200	FILTER FABRIC	SQ YD	510	510
44004000	PAVED DITCH REMOVAL	FOOT	200	200
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	125	125

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PLOT SCALE = 1/8" = 100' 0000'	DRAWN -	REVISED -
PLOT DATE = 9/2/022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	4
CONTRACT NO. 68F51			ILLINOIS FED. AID PROJECT	

MODIFIED: 09/21/2022
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CONSTR. CODE
0004
ROADWAY
MARSHAL
100% STATE
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	70	70
50800105	REINFORCEMENT BARS	POUND	66	66
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54002020	EXPANSION BOLTS 3/4 INCH	EACH	8	8
54010404	PRECAST CONCRETE BOX CULVERTS 4' X 4'	FOOT	78	78
54248510	CONCRETE COLLAR	CU YD	2	2
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	525	525
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	625	625
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	11	11
X0322494	CURB CUT	FOOT	120	120

*= SPECIALTY ITEM

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F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.											
645	(106)SLP,CLV	MARSHALL	28	5											

CONSTR. CODE

0004

ROADWAY

MARSHAL

100% STATE

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE RURAL
* Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	105	105
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0023500	FILLING EXISTING CULVERTS	CU YD	38	38

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USER NAME = Brian Bouris	DESIGNED -	REVISED -
PLOT SCALE = 100.0000 / in.	DRAWN -	REVISED -
PLOT DATE = 9/2/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	6
CONTRACT NO. 68F51				

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

EARTHWORK TABLE											
LOCATION				CUT	FILL	20200100		EARTH EXCAVATION (ADJ FOR SHRINKAGE)	EMBANKMENT	20400800	
						EARTH EXCAVATION	CUYD			FURNISHED EXCAVATION	CUYD
WESTBOUND (LT)				SQ FT	SQ FT	CUYD		CUYD		CUYD	
STA.	460+00.00	TO	STA.	460+50.00	0.0	0.0					
STA.	460+50.00	TO	STA.	461+00.00	0.0	0.0	0.0				
STA.	461+00.00	TO	STA.	461+50.00	250.9	0.0	464.6	348.4	0.0	-348.4	
STA.	461+50.00	TO	STA.	462+00.00	717.9	1.1	1329.4	997.1	1.0	-996.1	
STA.	462+00.00	TO	STA.	462+50.00	800.5	0.0	1482.4	1111.8	1.0	-1110.8	
STA.	462+50.00	TO	STA.	463+00.00	30.5	244.1	56.5	42.4	226.0	183.7	
STA.	463+00.00	TO	STA.	463+50.00	182.3	204.5	337.6	253.2	415.4	162.2	
STA.	463+50.00	TO	STA.	464+00.00	665.2	30.5	1213.3	910.0	217.6	-692.4	
STA.	464+00.00	TO	STA.	464+50.00	53.1	204.5	98.2	73.7	217.6	143.9	
STA.	464+50.00	TO	STA.	465+00.00	31.7	3.5	58.7	44.0	192.6	148.6	
STA.	465+00.00	TO	STA.	465+50.00	0.0	2.2	0.0	0.0	5.3	5.3	
STA.	465+50.00	TO	STA.	466+00.00	0.0	2.5	0.0	0.0	4.3	4.3	
EASTBOUND (RT)				SQ FT	SQ FT	CUYD		CUYD		CUYD	
STA.	460+00.00	TO	STA.	460+50.00	1.5	0.5					
STA.	460+50.00	TO	STA.	461+00.00	57.6	0.0	54.7	41.1	0.4	-40.6	
STA.	461+00.00	TO	STA.	461+50.00	82.3	69.1	129.5	97.1	63.9	-33.2	
STA.	461+50.00	TO	STA.	462+00.00	0.0	62.1	76.2	57.1	121.4	64.3	
STA.	462+00.00	TO	STA.	462+50.00	2.6	572.5	2.4	1.8	587.6	585.8	
STA.	462+50.00	TO	STA.	463+00.00	315.3	190.6	294.3	220.7	706.6	485.8	
STA.	463+00.00	TO	STA.	463+50.00	509.1	32.3	763.3	572.5	206.4	-366.1	
STA.	463+50.00	TO	STA.	464+00.00	0.3	0.4	471.7	353.8	30.3	-323.5	
STA.	464+00.00	TO	STA.	464+50.00	3.8	0.2	3.8	2.8	0.6	-2.2	
STA.	464+50.00	TO	STA.	465+00.00	0.6	0.3	4.1	3.0	0.5	-2.5	
STA.	465+00.00	TO	STA.	465+50.00	0.8	1.2	1.3	1.0	1.4	0.4	
STA.	465+50.00	TO	STA.	466+00.00	0.0	0.0	0.7	0.5	1.1	0.6	
TOTAL				3695.8	1622.0	6843	5132	3001	-2131		

DRAINAGE											
LOCATION				50104400	50105220	50800105	54001001	54010404	54248510	X0322494	Z0023500*
				CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL	REINFORC. BARS	BOX CULVERT END SEC NO 1	PRECAST CONCRETE BOX CULVERTS 4' X 4'	CONCRETE COLLAR	CURB CUT	FILLING EXISTING CULVERTS
				EACH	FOOT	POUND	EACH	FOOT	CU YD	FOOT	CU YD
LT STA.	461+85.00	TO	LT STA.	462+50.00		70					
LT STA.	461+85.00	TO	LT STA.	461+89.00	1						
LT STA.	461+89.00	TO	LT STA.	463+09.00						120	
LT STA.	462+70.00	TO	LT STA.	462+70.00			33		1		
RT STA.	462+25.00	TO	RT STA.	462+25.00		33			1		
LT STA.	462+80.00	TO	LT STA.	462+80.00			1	30			
RT STA.	462+10.00	TO	RT STA.	462+10.00			1	48			
STA.	463+02.65	TO	STA.	463+02.65							38
TOTAL				1	70	66	2	78	2	120	38

*NOTE: EXISTING 4' X 6' BOX CULVERT, 42' LONG

GUARDRAIL									
LOCATION				63000001	63100167	63200810	Z0001002		
				SPBGR, TY A 6	TRAF BAR TERM, TY 1 SP (TAN)	GUARDRAIL REMOVAL	GRAGGERS CONTROL		
				FOOT	EACH	FOOT	TON		
LT STA.	460+45.44	TO	LT STA.	460+96.06		1	7		
LT STA.	460+96.06	TO	LT STA.	463+92.67	300		44		
LT STA.	463+92.67	TO	LT STA.	464+43.33		1	7		
RT STA.	460+18.48	TO	RT STA.	460+67.55		1	7		
RT STA.	460+67.55	TO	RT STA.	462+89.35	225		38		
RT STA.	462+89.35	TO	RT STA.	463+38.70		1	7		
LT STA.	461+38.72	TO	LT STA.	464+43.08			304		
RT STA.	460+18.57	TO	RT STA.	463+38.72			320		
TOTAL				525	4	625	105		

EARTHWORK TABLE														
LOCATION				20100500	21101615	25000300	25000400	25000500	25000600	25100635	28000400	28100107	28200200	
				TREE REMOVAL	TOPSOIL FURNISH AND PLACE	SEEDING CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	HEAVY DUTY EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	STONE RIPRAP CLASS A4	FILTER FABRIC	
				ACRE	SQ YD	ACRE	POUND	POUND	POUND	SQ YD	FOOT	SQ YD	SQ YD	
LT STA.	461+50.00	TO	LT STA.	464+50.00	0.44	2570	0.53	47.8	47.8	47.8	2570	350	220	220
RT STA.	460+50.00	TO	RT STA.	464+25.00	0.47	2216	0.46	41.2	41.2	41.2	2216	450	290	290
TOTAL				0.91	4786	0.99	89.0	89.0	89.0	4786	800	510	510	

JOB SITE						
LOCATION				67100100	Z0013798	
				MOBILIZATION	CONSTRUCTION LAYOUT	
				L SUM	L SUM	
STA.	460+00.00	TO	STA.	465+00.00	1	1
TOTAL				1	1	

LOCATION						44004000	48100500
						PAVED DITCH REMOVAL	AGGREGATE SHLDS A 6"
						FOOT	SQ YD
LT STA.	460+00.00	TO	LT STA.	460+45.44			20
LT STA.	464+43.33	TO	LT STA.	465+00.00			25
RT STA.	460+00.00	TO	RT STA.	460+18.48			8
RT STA.	463+38.70	TO	RT STA.	465+00.00			72
LT STA.	460+80.00	TO	LT STA.	461+90.00		110	
LT STA.	463+20.00	TO	LT STA.	464+10.00		90	
LT STA.	460+00.00	TO	LT STA.	465+00.00			
RT STA.	460+00.00	TO	RT STA.	465+00.00			
TOTAL						200	125

GENERAL TABLE									
LOCATION				70100450	78200005	72501000			
				TC&P 701201	GUARDRAIL REFLECTORS, TY A	TERM MARKER, DIRECT APPLIED			
				LSUM	EACH	EACH			
LT STA.	460+00.00	TO	LT STA.	465+00.00	1				
RT STA.	460+00.00	TO	RT STA.	465+00.00					
LT STA.	460+45.44	TO	LT STA.	464+43.33		6	2		
RT STA.	460+18.48	TO	RT STA.	463+38.70		5	2		
TOTAL				1	11	4			

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USER NAME	DESIGNED	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

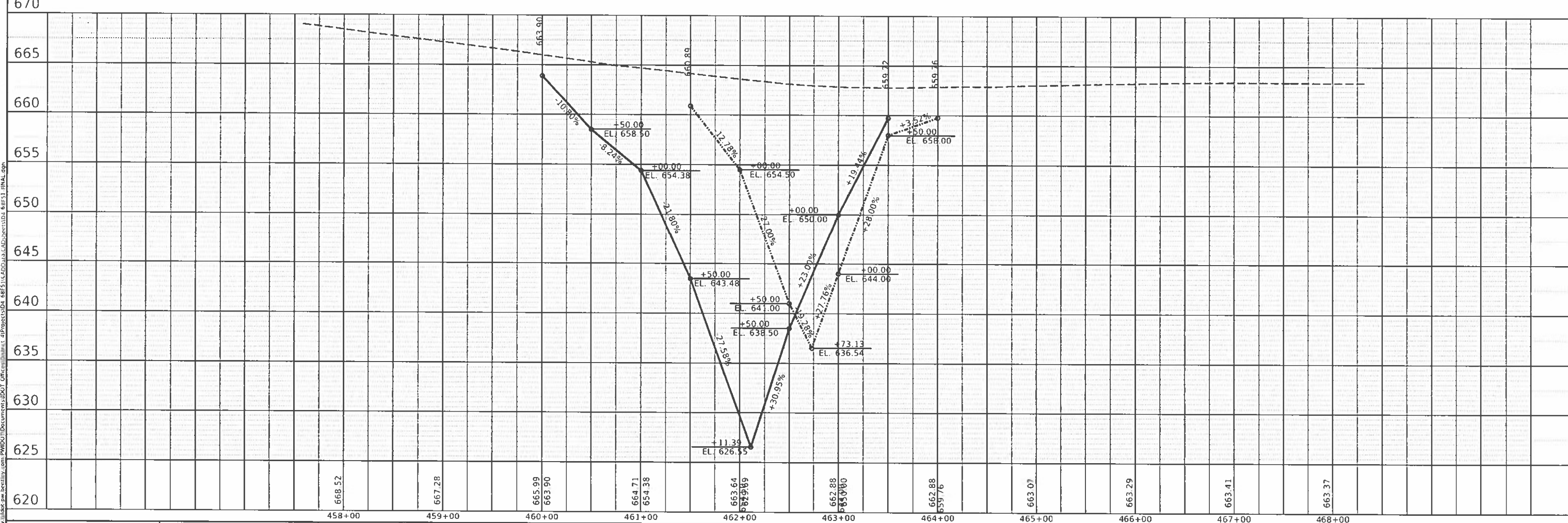
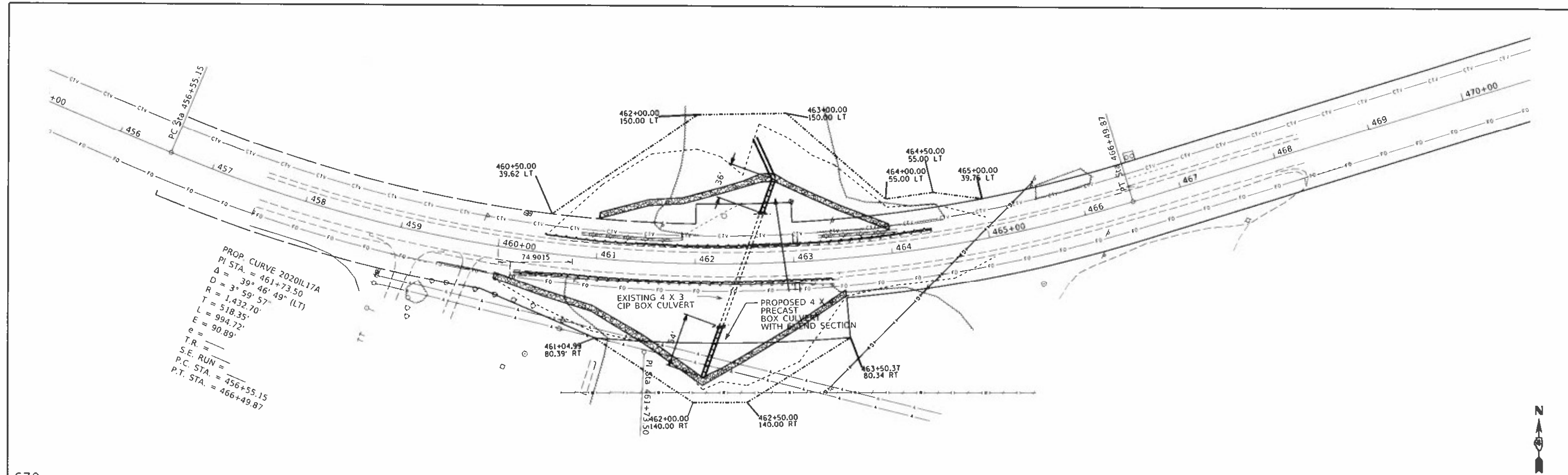
SCHEDULE OF QUANTITIES

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	1106/SLP,CLV	MARSHALL	28	7
CONTRACT NO. 68F51			ILLINOIS FED. AID PROJECT	

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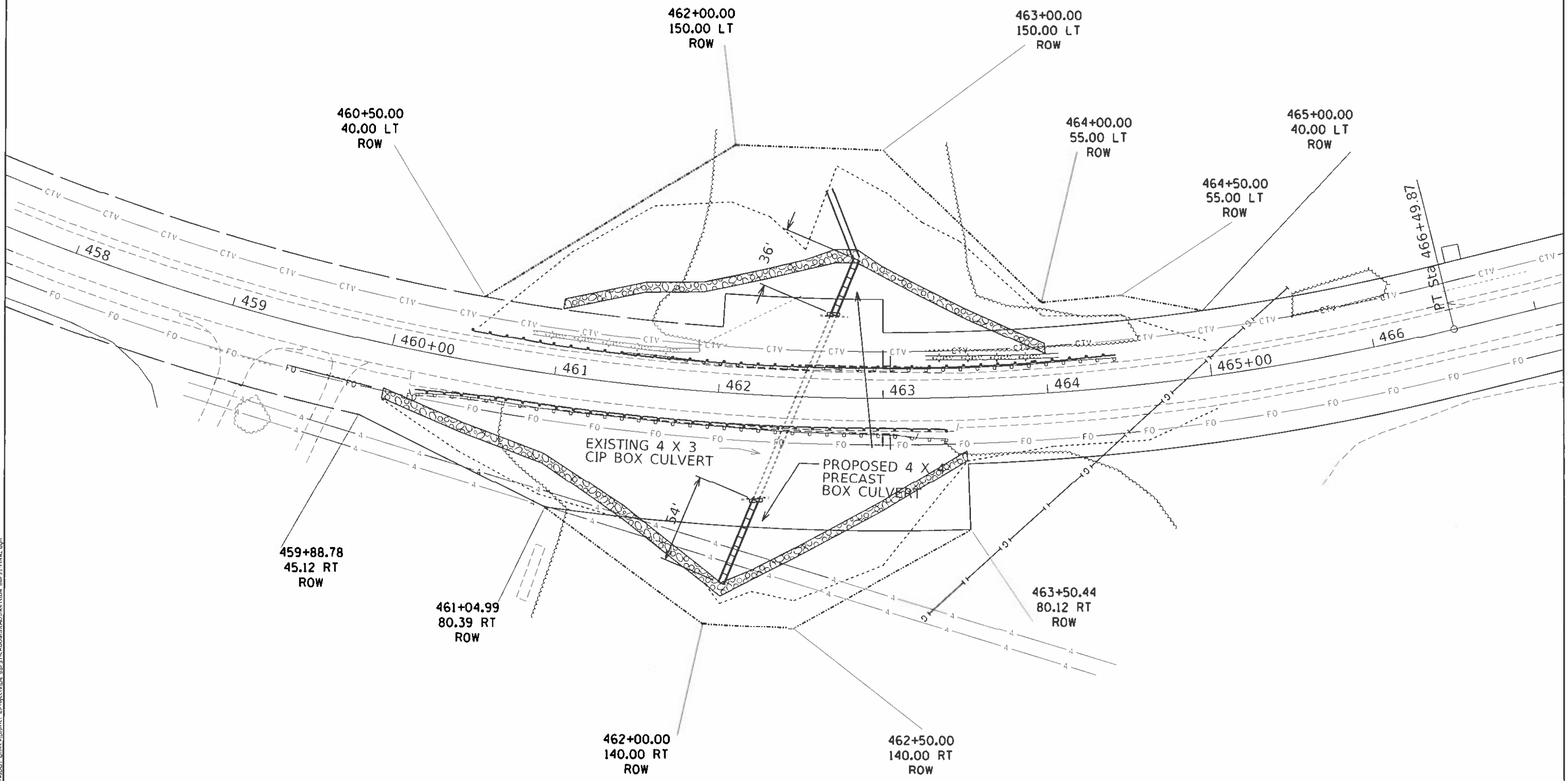
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PLAN	
NO.	
NOTE BOOK	
NO.	

DATE	
BY	
NO.	
PROFILE	
NO.	
NOTE BOOK	
NO.	



USER NAME = Brian Baum	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 17 PLAN & PROFILE		F.A.P. RTE = 645	SECTION = I106/SLP,CLV	COUNTY = MARSHALL	TOTAL SHEETS = 28	SHEET NO. = 9
PLOT SCALE = 1/8" = 100'-0"	DRAWN -	REVISED -		SCALE: SHEET OF SHEETS STA TO STA.		CONTRACT NO. 68F51				
PLOT DATE = 9/21/2022	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT						
DATE =	DATE =	REVISED -								

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USER NAME = Brian Bouris	DESIGNED -	REVISED -
PLOT SCALE = 1/8" = 100'	DRAWN -	REVISED -
PLOT DATE = 9/2/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

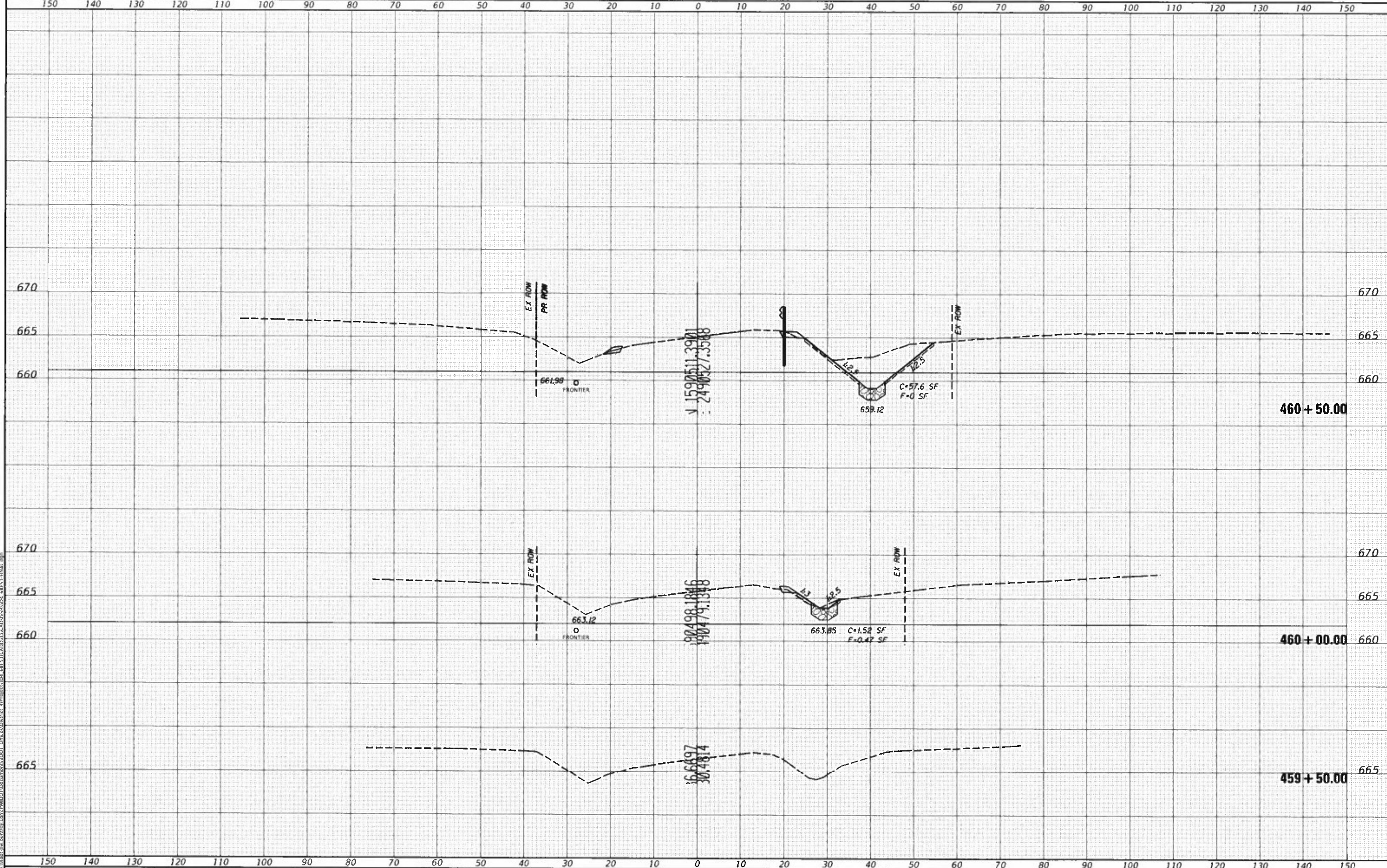
IL 17 PLAN SHEET

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP.CLV	MARSHALL	28	10
CONTRACT NO. 68F51				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREA
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREA
	CHECKED



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USER NAME = Brian Bouris	DESIGNED -	REVISED -
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PLOT DATE = 9/2/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 17 CROSS SECTIONS

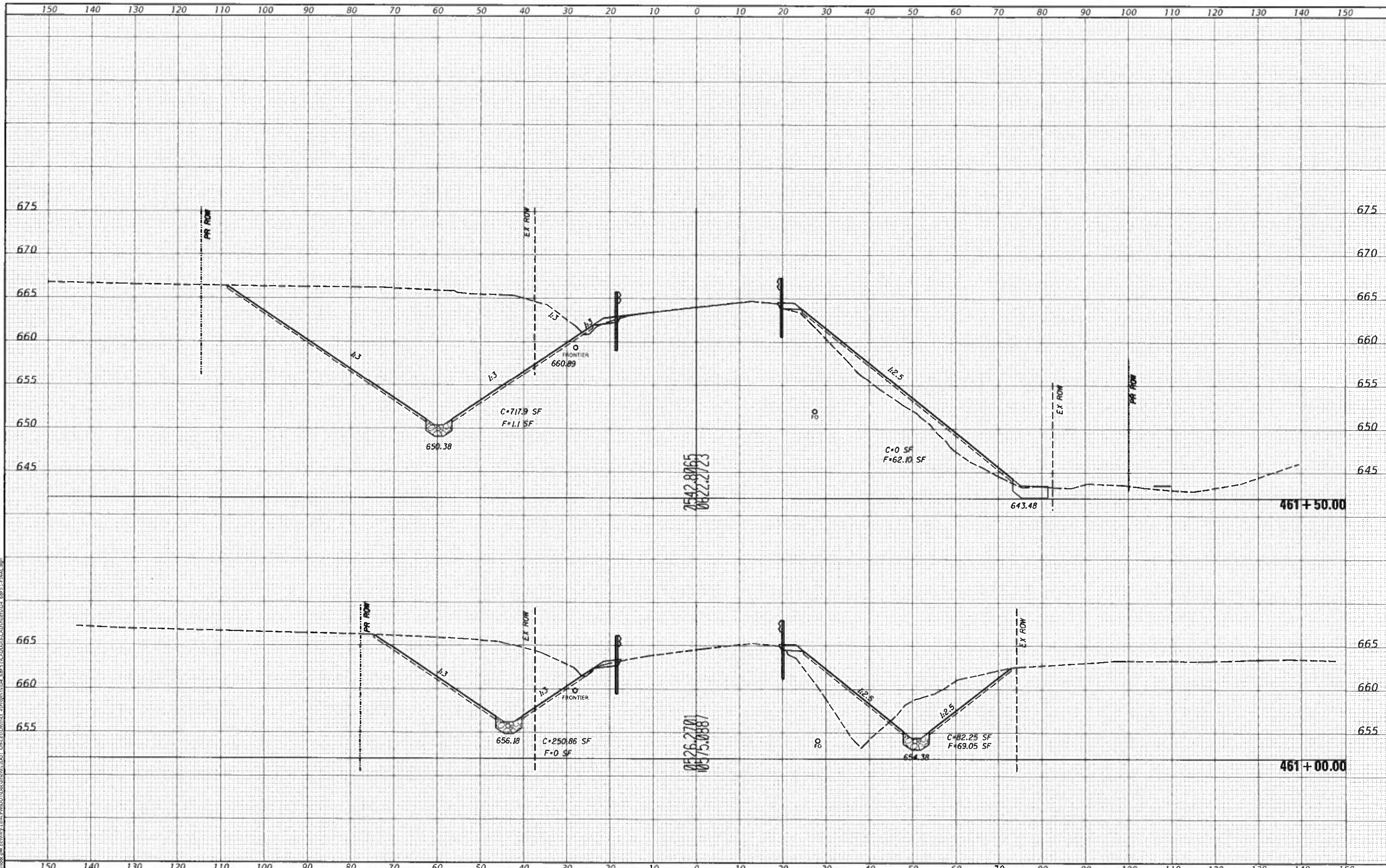
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
845	(1106)SLP,CLV	MARSHALL	28	11
				CONTRACT NO. 68F51
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREA CHECKED

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREA CHECKED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 17 CROSS SECTIONS

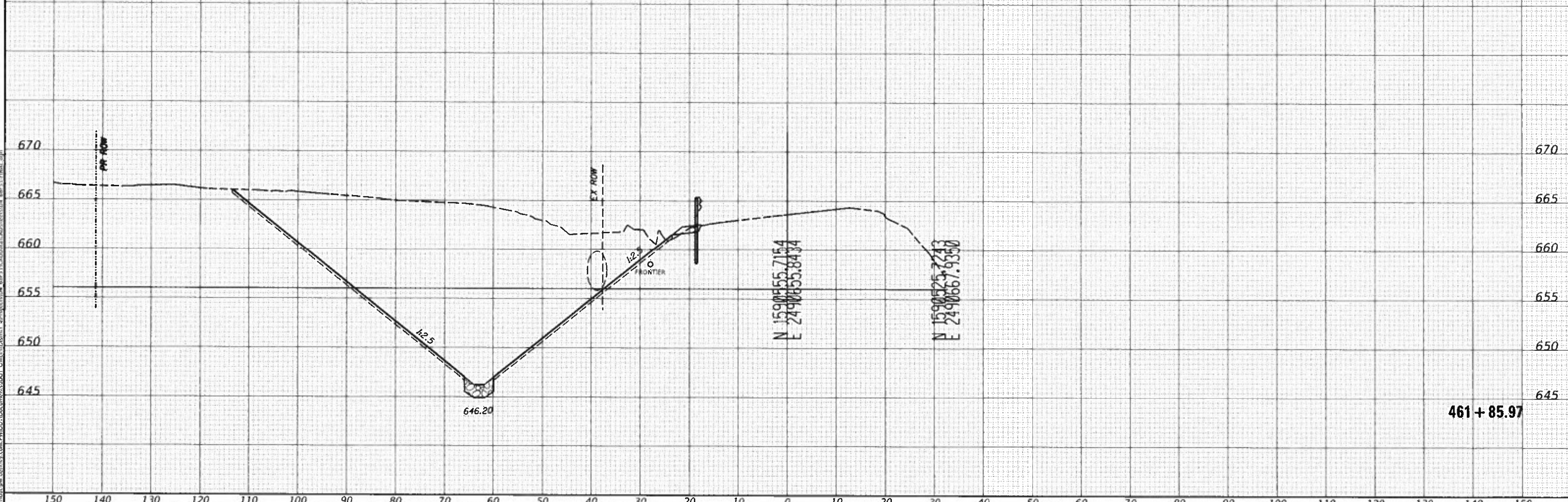
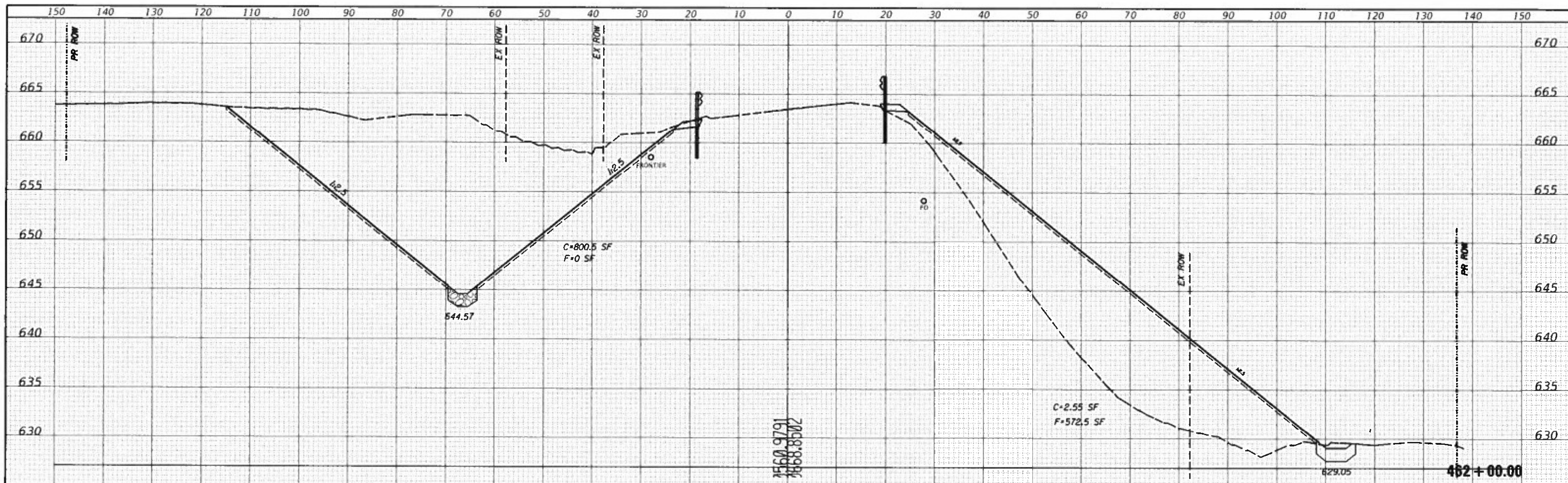
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DRAWN	-
CHECKED	-
DATE	-

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REVISED	-
REVISED	-
REVISED	-

SCALE: SHEET OF SHEETS STA. 461+00.00 TO STA. 461+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64%	(106)SLP,CLV	MARSHALL	28	12
CONTRACT NO. 68F51				

ILLINOIS FED AID PROJECT



FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREA CHECKED

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREA CHECKED

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DRAWN	-
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PLLOT DATE	= 9/2/2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 17 CROSS SECTIONS

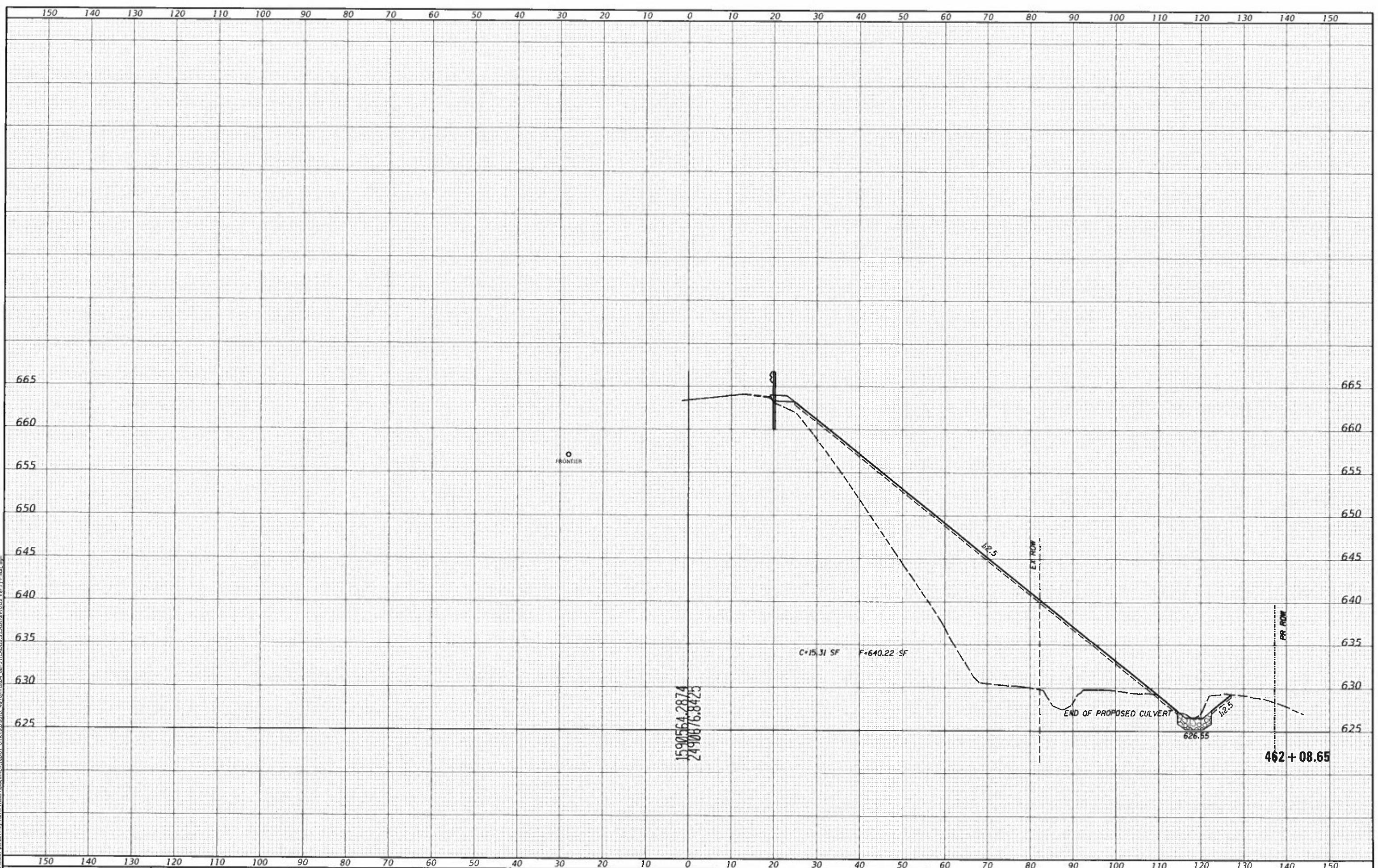
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	1106ISLP,CLV	MARSHALL	28	13
CONTRACT NO. 68F51			ILLINOIS FED. AID PROJECT	

DATE	
BY	
REVIEWED	
CHECKED	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
REVIEWED	
CHECKED	
DESIGNED	
DRAWN	
CHECKED	
DATE	

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USER NAME	= Brian Bours
DESIGNED	-
DRAWN	-
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REVISED	-
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REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

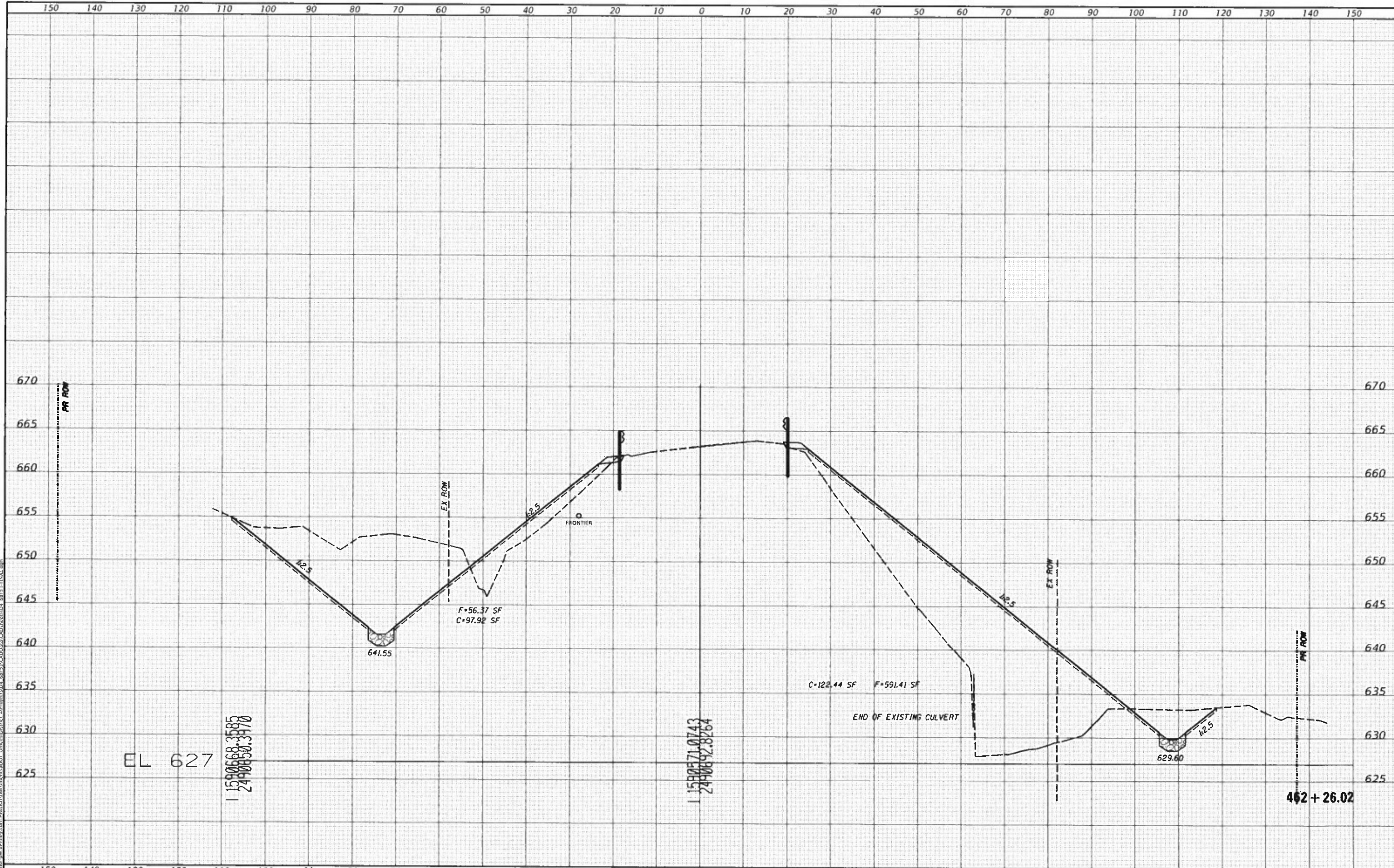
IL 17 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA 462+08.65 TO STA. 462+08.65

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	14
CONTRACT NO. 68F51			ILLINOIS FED AID PROJECT	

FINAL SURVEY	SURVISED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

ORIGINAL SURVEY	SURVISED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

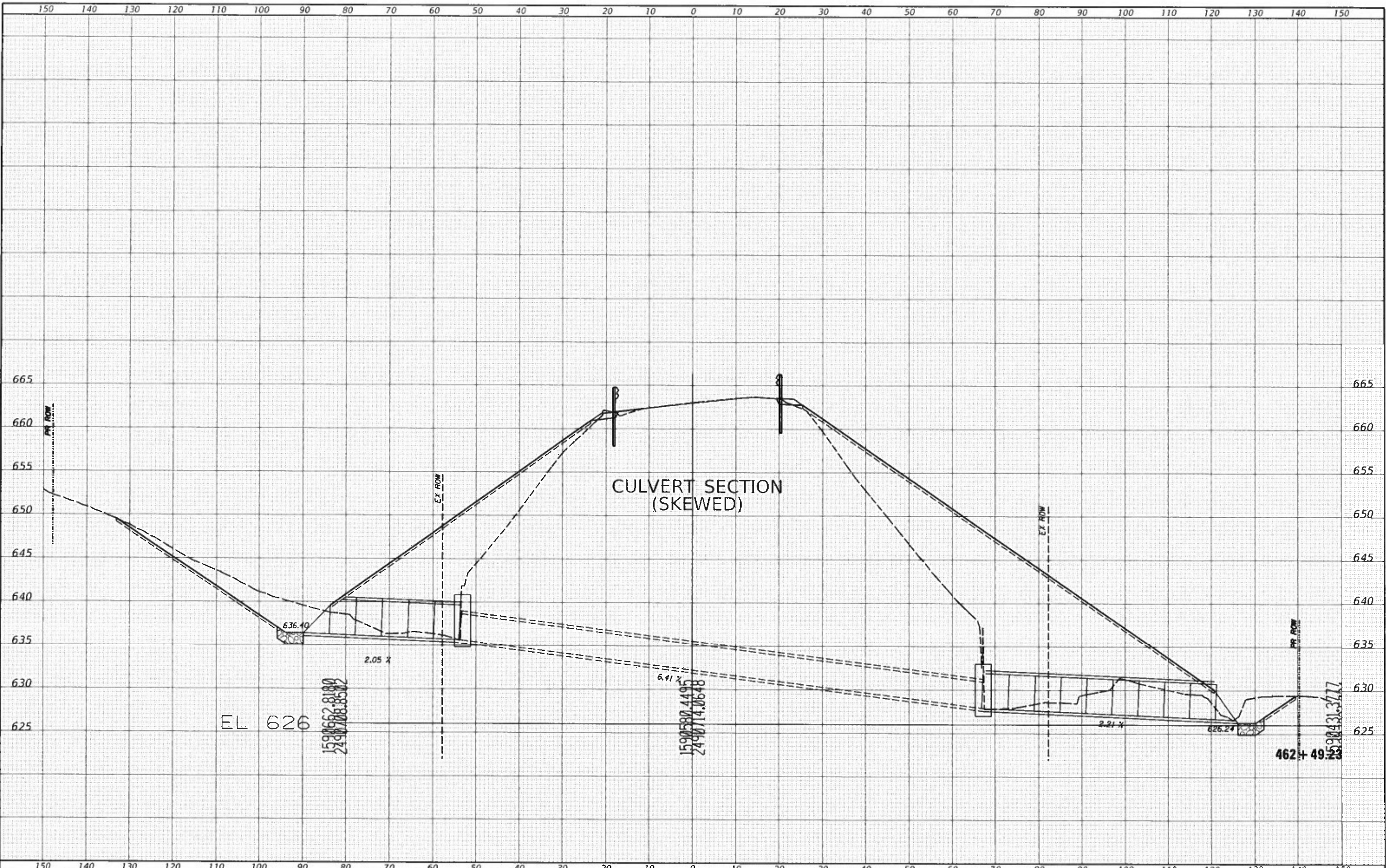
IL 17 CROSS SECTIONS

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DESIGNED -	DRAWN -	REVISED -
CHECKED -	CHECKED -	REVISED -
DATE -	DATE -	REVISED -

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	15
CONTRACT NO. 68F51				

SCALE: SHEET OF SHEETS STA. 462+26.02 TO STA. 462+26.02

ILLINOIS FED AID PROJECT



DATE	
BY	
SAVED	
PLOTTED	
TEMPLATE	
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CHECKED	

DATE	
BY	
SAVED	
PLOTTED	
TEMPLATE	
MARK	
CHECKED	

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PLOT DATE = 9/3/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 17 CROSS SECTIONS

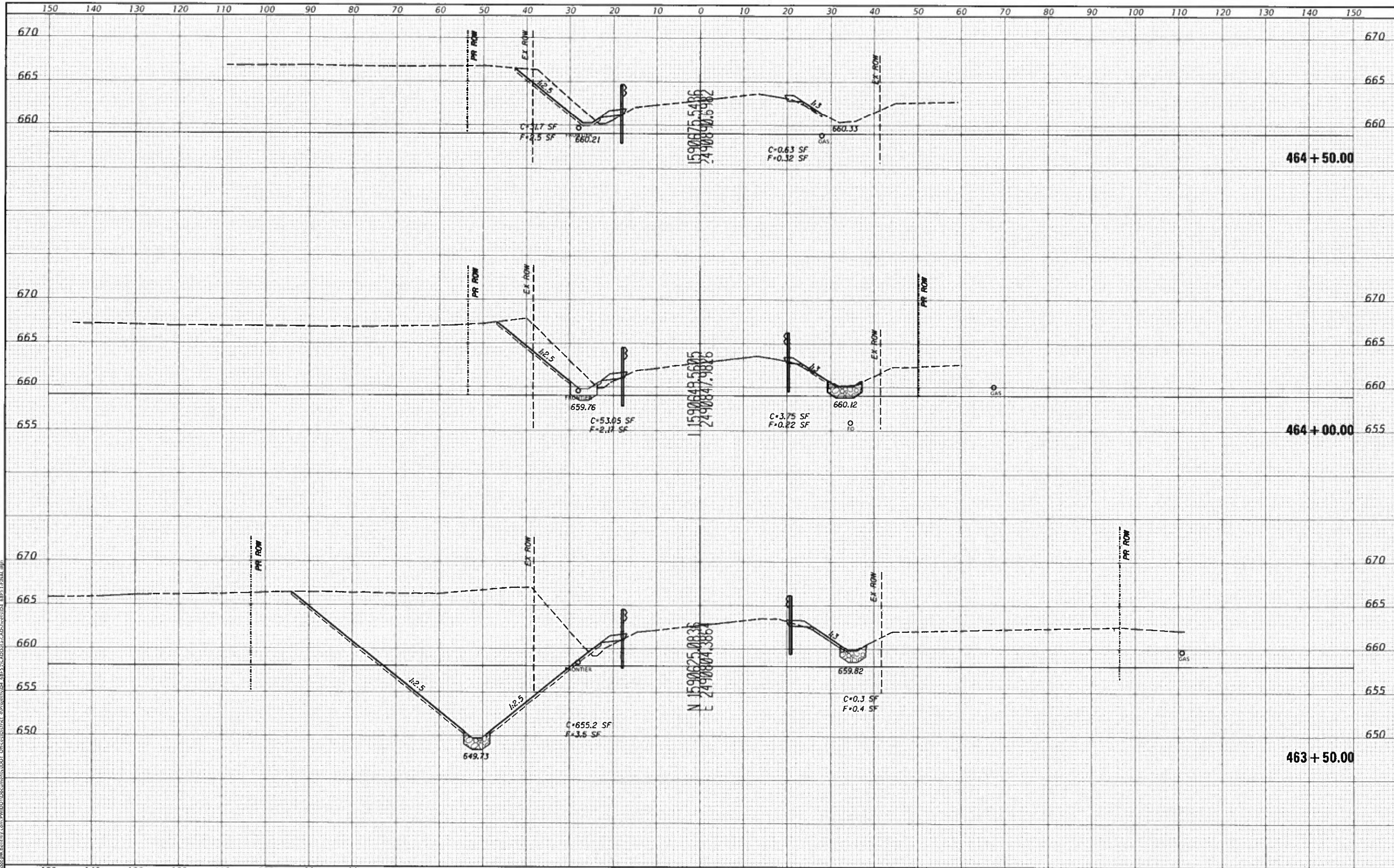
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645	(106)SLP,CLV	MARSHALL	28	16
CONTRACT NO. 68F51			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

MODEL: D:\final
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USER NAME = Brian.Bous	DESIGNED -	REVISED -
PLOT SCALE = 100 0000 / in.	DRAWN -	REVISED -
PLOT DATE = 9/2/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

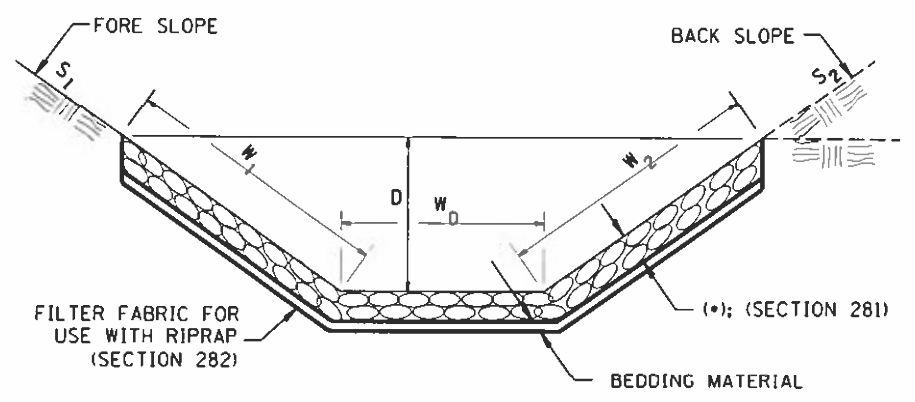
IL 17 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 463+50.00 TO STA. 464+50.00

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	20
CONTRACT NO. 68F51			ILLINOIS FED AID PROJECT	

Designer NOTES:
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
 2. (*) Designer to specify pay item including material, quality, and gradation.
 3. Include District Special Provision if needed.

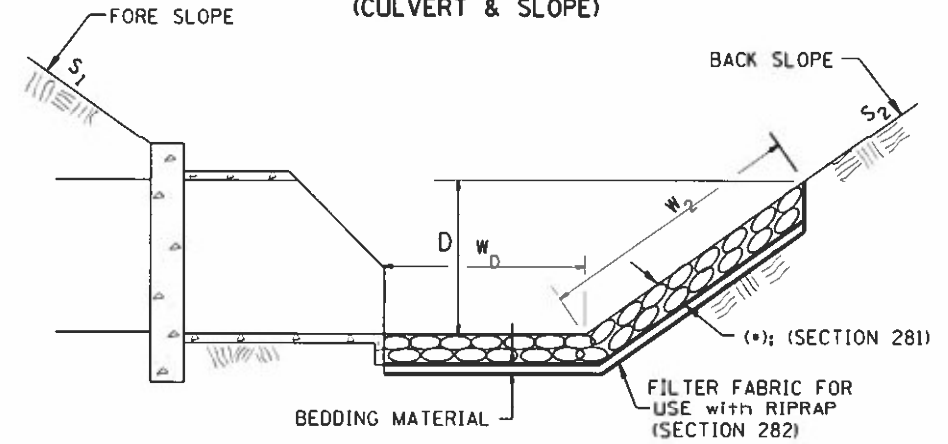
**CASE 1
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_1 + W_2 + W_0$

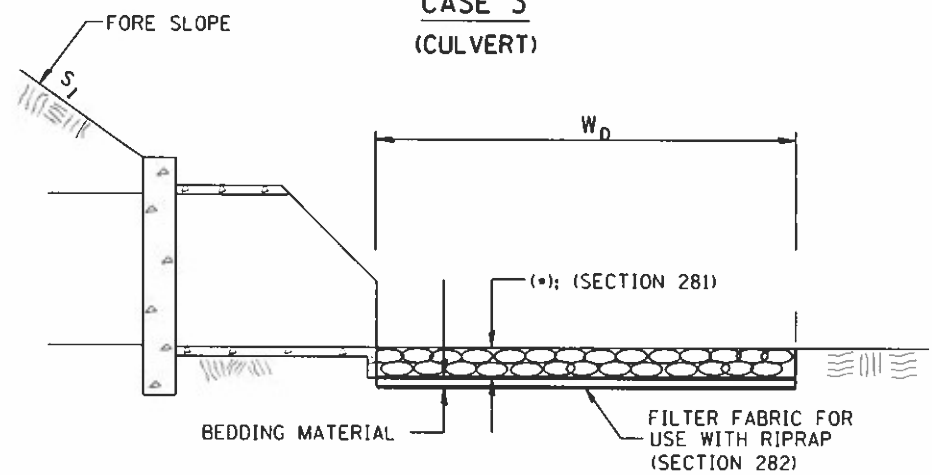
**CASE 2
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_2 + W_0$

**CASE 3
(CULVERT)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = W_0

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 noted.

1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.
9-6-12	REMOVED A DESIGNER NOTE AND MADE MINOR CHANGES	R.D.

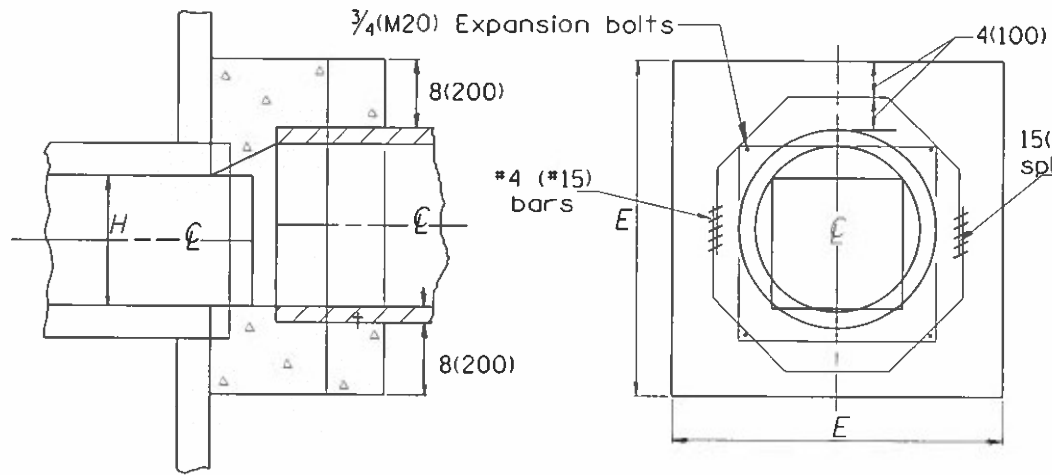
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RIPRAP DITCH FOR EROSION PROTECTION

NOT TO SCALE

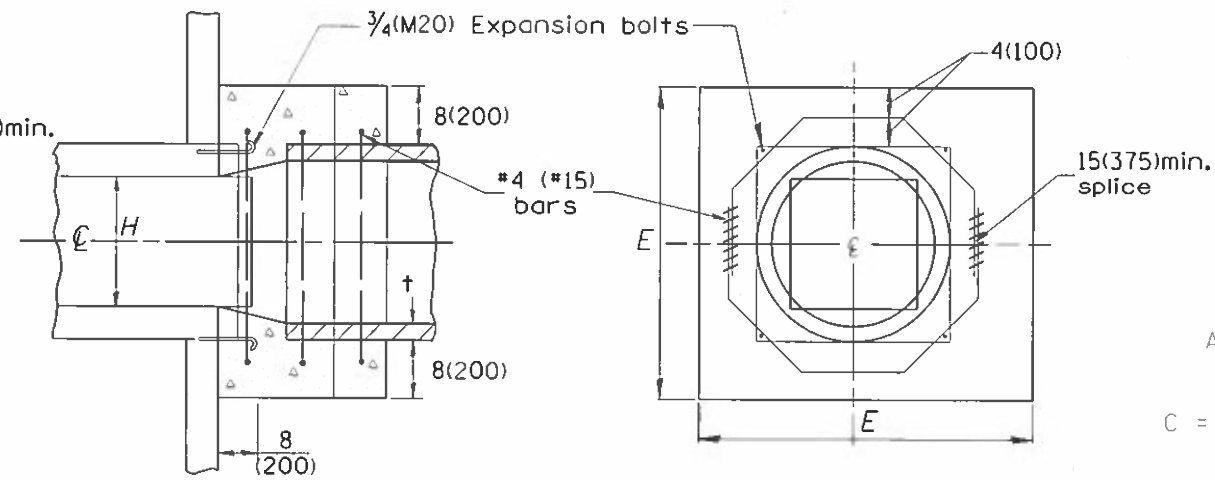
CADD STD. 281001-D4

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	23
CONTRACT NO. 68F51			ILLINOIS FED. AID PROJECT	



SECTION A-A

END VIEW



SECTION A-A

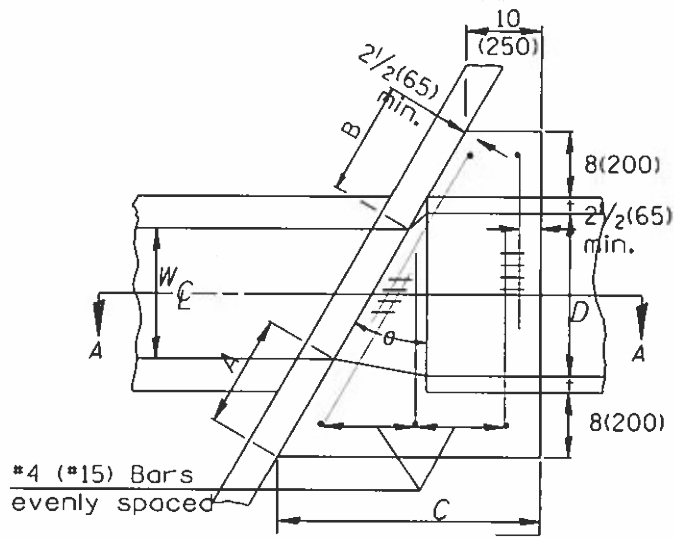
END VIEW

$$A = B = \frac{D - W}{2} + t + 8(200) \div \cos \theta$$

$$C = \tan \theta [D + 2t + 16(410)] + 10(250)$$

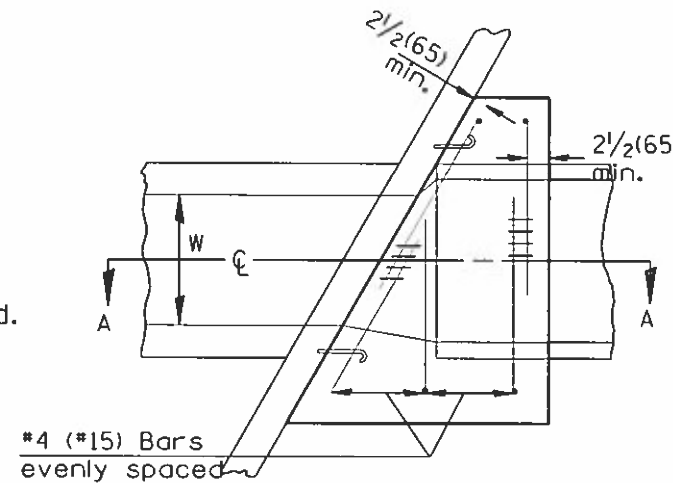
$$G = \frac{D + 2t + 8(200)}{2.4142 [\cos \theta]}$$

(Note: 'G' is based upon maximum skewed length)

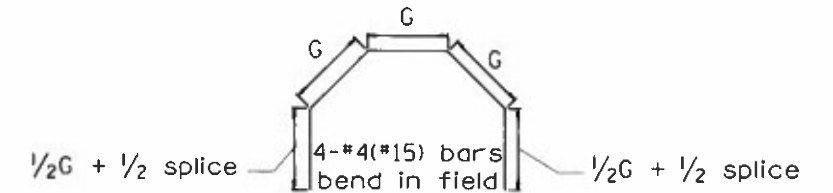


PLAN VIEW UP STREAM

NOTE: Dimensions are shown in Plan View of Up Stream End while Reinforcement is shown in plan view of Down Stream End.



PLAN VIEW DOWN STREAM



GENERAL NOTES

- The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
- Expansion bolts shall consist of approved expansion anchors, and 3/4 (M20) hook bolts which conform to section 1006.09. These bolts shall extend at least 8(200) into the new concrete.
- This work will be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR, by the pound (kg) for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.

EXISTING BOX		EACH COLLAR								EXPAN. BOLTS				
		θ	A	B	C	D	E	t	REINFORCEMENT BARS					
W	H								CONCRETE	G	L	KG(LBS.)	EACH	

QUANTITIES
 CALC. BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

01-01-97	RENUM. J-11.03, NEW REVISION BOX, REVISED	T.P.
10-16-06	TITLE BOX, ADDED QUANTITY CALCULATION BOX	M.A.
2-15-11	REVISD TO 2007 SPEC.	R.D.
	CHANGED REBAR DETAIL	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SKewed PIPE CULVERT EXTENSION COLLAR (WITH END SECTION)

NOT TO SCALE

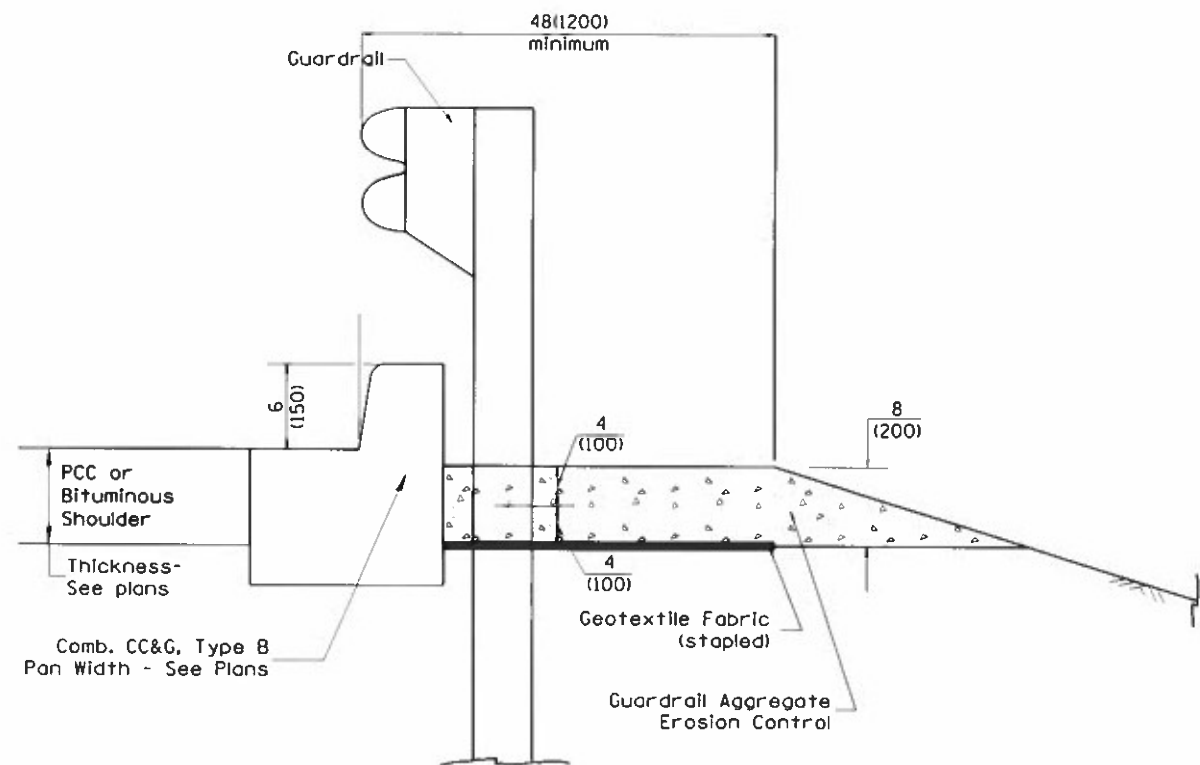
CADD STD. 542011-04

All dimensions are in inches (millimeters) unless otherwise noted.

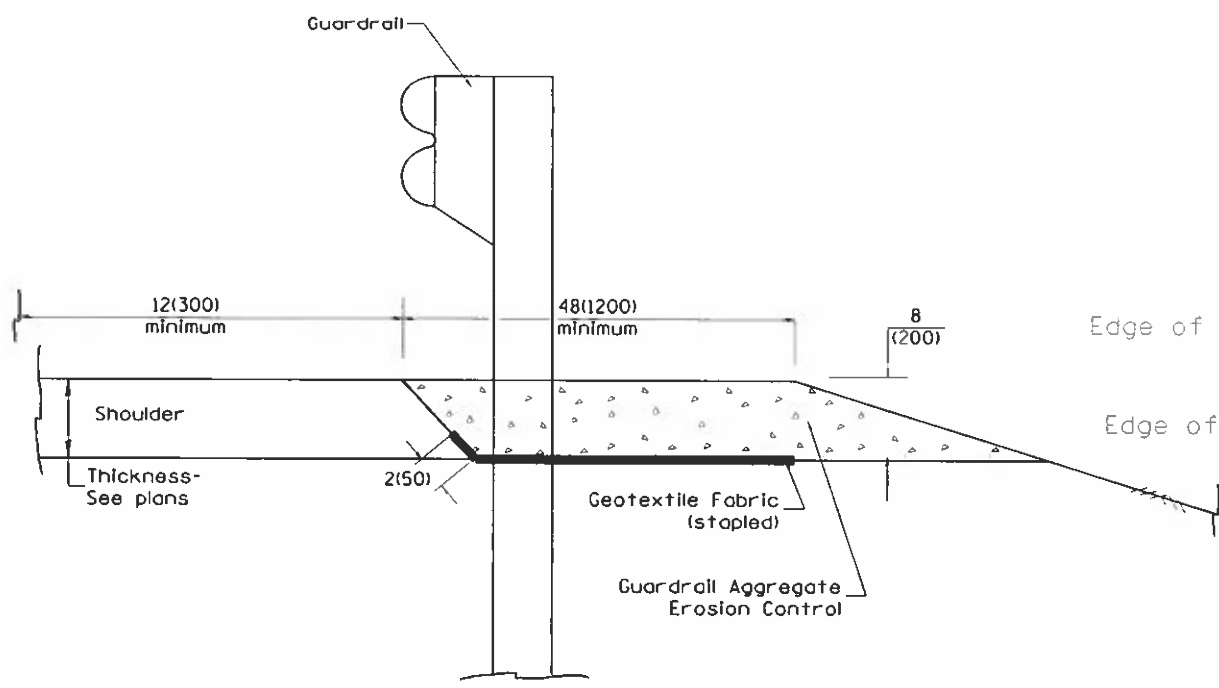
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	24
			CONTRACT NO. 68F51	

ILLINOIS FED. AID PROJECT

USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION).
 2. INCLUDE STATE STANDARD 610001, IF APPLICABLE.
 3. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES
 4. SEEPAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.
 5. INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.
 6. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.
 7. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.
 8. IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS



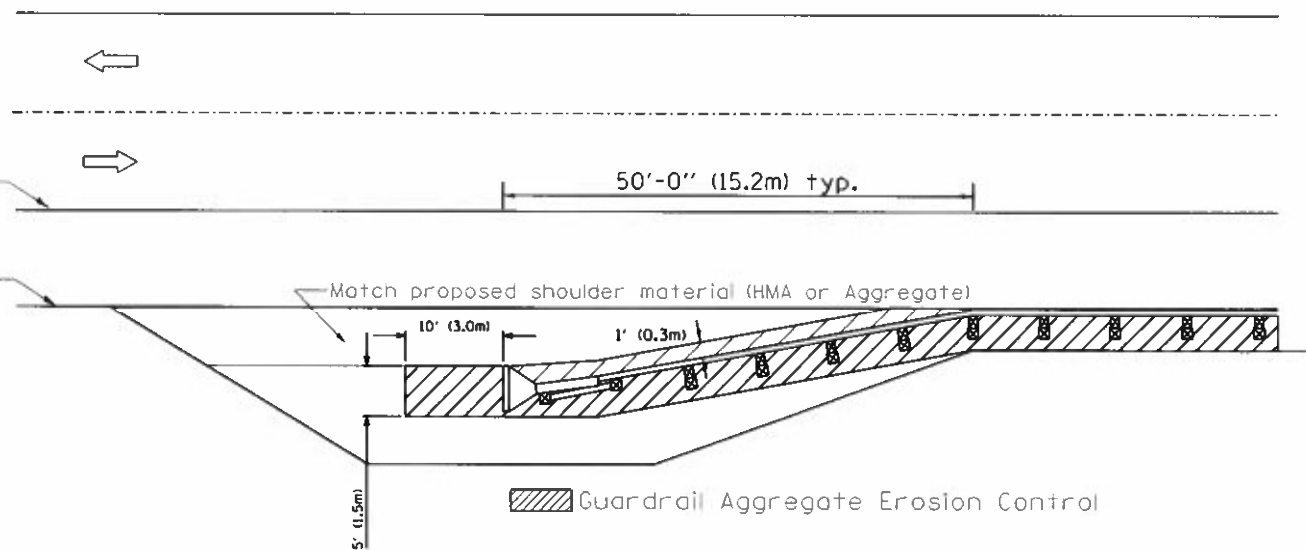
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.O.	5-30-18	CHANGE B CURB TO CC&G	R.O.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.O.			
07-15-15	ADDRESSED SHOULDER INLET CURB	R.O.			
01-26-17	REVISED	R.O.			

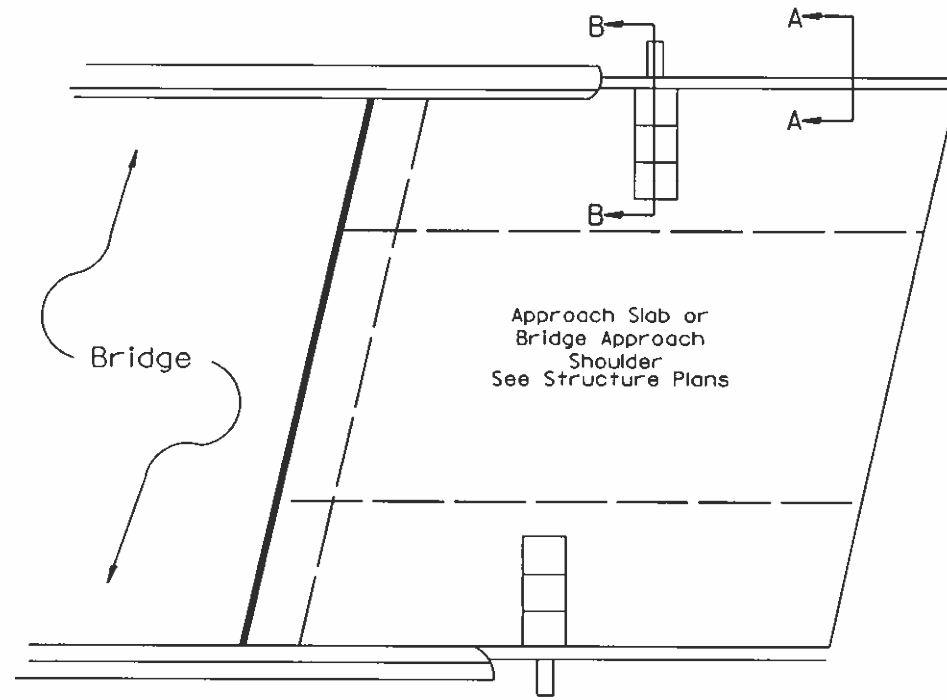
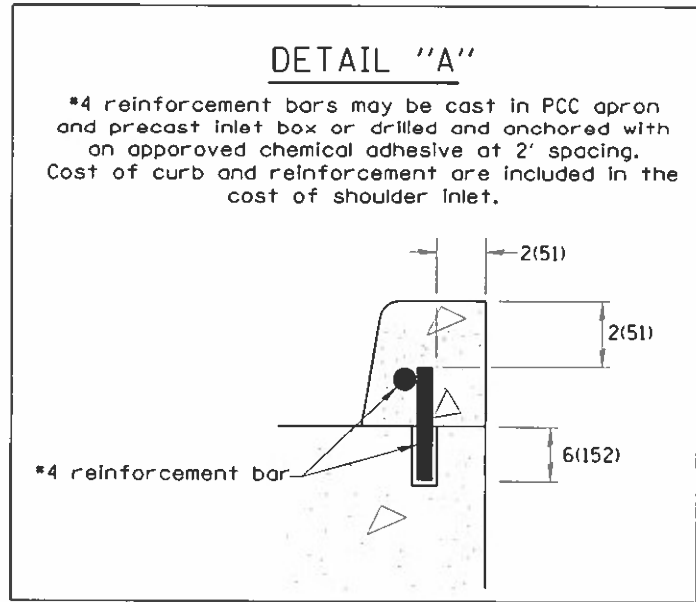
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

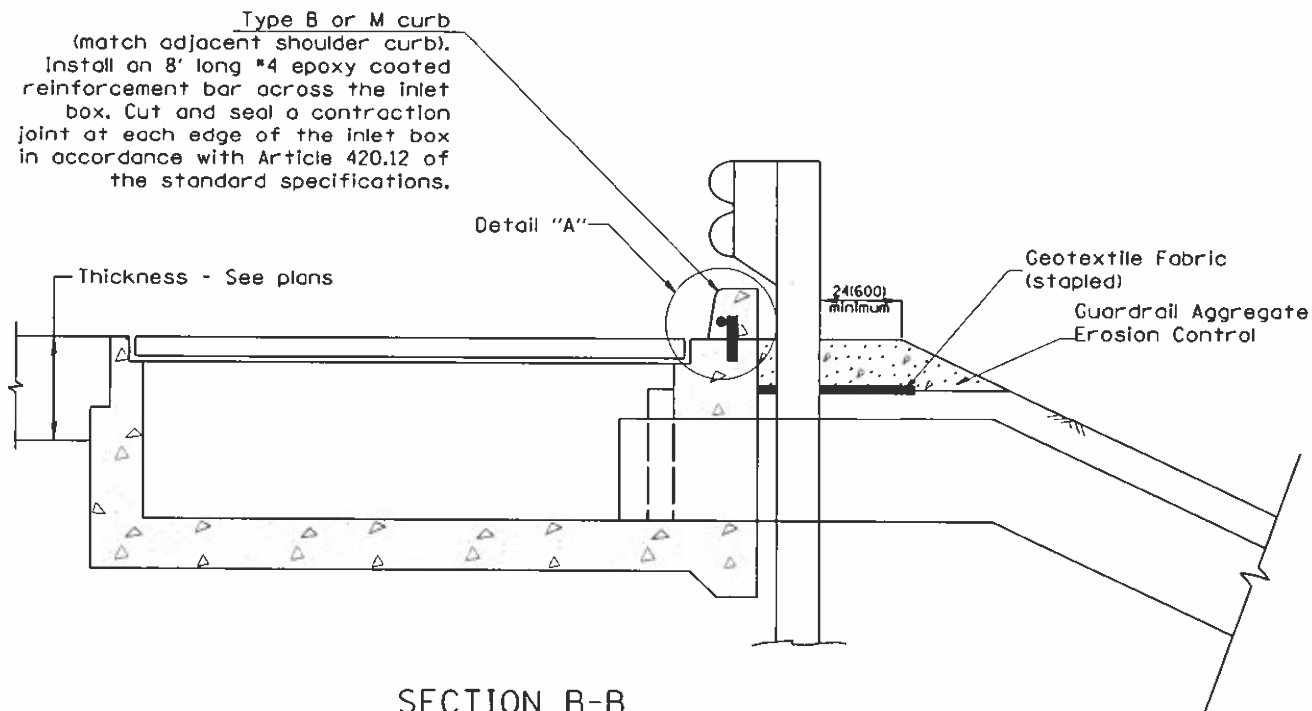
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SHT. 1 OF 2
CADD STD. 630101-D4

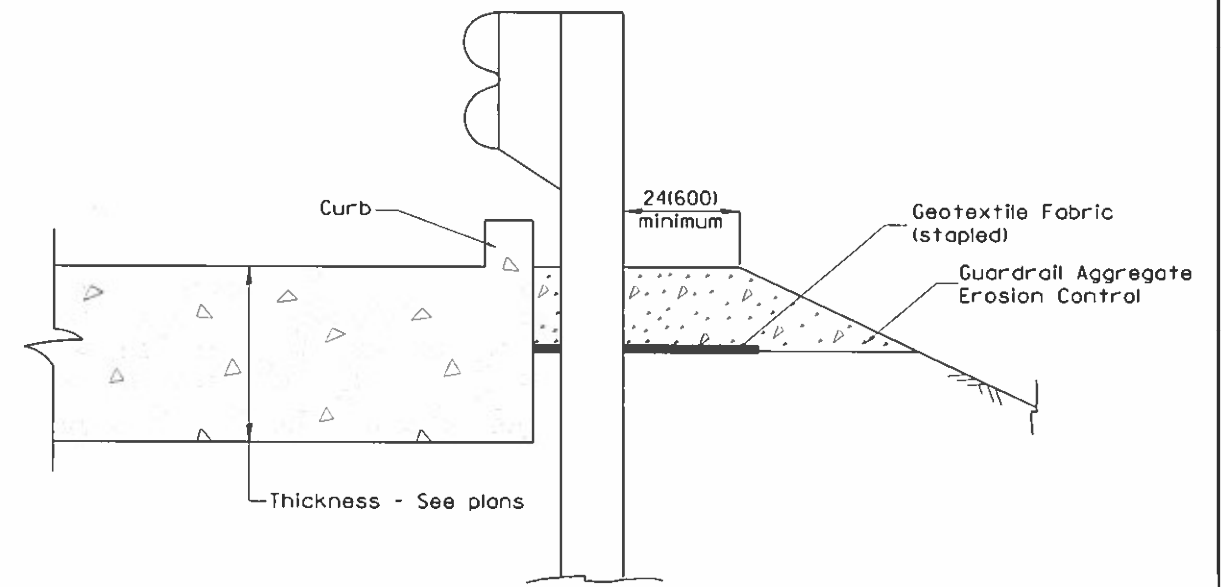
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	11061SLP,CLV	MARSHALL	28	25
			CONTRACT NO. 68F51	
ILLINOIS FED. AID PROJECT				



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

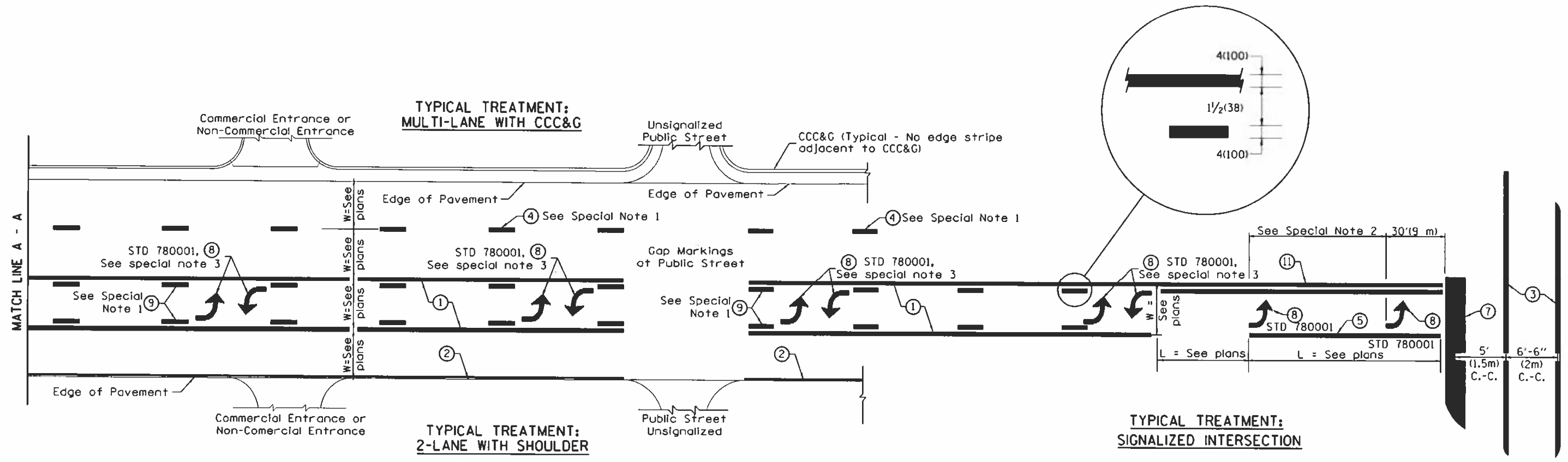
GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-04

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
645	(106)SLP,CLV	MARSHALL	28	26
			CONTRACT NO. 68F51	

ILLINOIS FED. AID PROJECT



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between BI Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
Through Arrow= 14.8 sq. ft.
Large Left or Right Arrow= 21.9 sq. ft.
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
Wrong Way Arrow= 29.5 sq. ft.
Railroad Crossing Symbol= 69.8 sq. ft.
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.			645	(106)SLP,CLV	MARSHALL	28	27	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.			SHT. 1 OF 2 CADD STD. 780001-D4					
08-02	ADD CROSSWALK DIMS. WITH T.S.	M.A.						CONTRACT NO. 68F51 ILLINOIS FED. AID PROJECT					

