

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-3HBR	KANKAKEE	47	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 17  
17 SHEETS

**BORING #3**

Project	Bridge #046-0082	Date	7/19/90
Route	FAI 04	Bored By	K. Whittington
Sec	46-3HBR	STA.	24+90
County	Kankakee	Boring No.	3 (W. Abut.)
		Station	23+82
		Offset	7' Lt.
		Checked By	W. Beck

Surface Water El.	Groundwater El. at Completion	Washed	After	Hours	EL	N	Qu	W%
Ground Surface	280.7	0						
					257.7	4	2.2	12
					278.2			
					256.2	14	2.2	23
					254.2	6	0.1	36
					274.2	7	0.4	15
					272.2	4	4.0	20
					269.7	3		20
					267.2	5	1.0	18
					266.2	6		20
					263.7	8	0.4	14
					261.2	21		13
					20	12	0.4	16
					45			

Soils	EL	N	Qu	W%
VERY STIFF BL. SIC	257.7	4	2.2	12
SOFT DK. GR. SAL	254.2	6	0.1	36
GR. LOAM & GRAVEL	252.7			
MEDIUM SILT & SAND	249.7	25		24
DENSE GR. SAND	245.2			11
HARD BR. SIL-TILL	243.7	34		
STIFF BR. SAL	238.7	52		13
	45			

Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

Soils	EL	N	Qu	W%
STIFF BR. SAL	45			70
	42	1.5	17	
	232.7			
HARD GR. SIL-TILL	50			75
	53	14		
	55			80
HARD GR. SIC-TILL	224.7	32		16
	224.2	24	9.0	14

**BORING #1**

Project	Bridge #046-0082	Date	7/16/90
Route	FAI 04	Bored By	K. Whittington
Sec	46-3HBR	STA.	24+90
County	Kankakee	Boring No.	1 (Pier)
		Station	24+82
		Offset	19' Rt.
		Checked By	W. Beck

Surface Water El.	Groundwater El. at Completion	Washed	After	Hours	EL	N	Qu	W%
Ground Surface	263.2	0						
					260.7			
					257.2	9	1.5	9
					256.2	4	1.0	11
					253.7	4	0.2	28
					252.2	13		15
					248.7	21		8
					245.2	31		5
					243.7	38	4.5	6
					20	34	4.5	8
					45			

Soils	EL	N	Qu	W%
VERY STIFF SIL-TILL	260.7			
BL. SIL & SAND	257.2	9	1.5	9
STIFF BL. SIC	256.2	4	1.0	11
SOFT BL. SIC	253.7	4	0.2	28
MEDIUM GR. SA. & SILT	252.2	13		15
MEDIUM GR. SA. & GR.	248.7	21		8
DENSE GR. SAL (LS PIECES)	245.2	31		5
DENSE BR. SA. & GR.	243.7	38	4.5	6
VERY STIFF SIL-TILL	20	34	4.5	8
	45			

Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

Soils	EL	N	Qu	W%
HARD GR. CLAY & SILT	45			70
	28	16		
	215.2			
GR. SILT & SAND	50			75
	212.2	22	16	
VERY STIFF GR. SIL	211.7	20	3.0	3

**BORING #2**

Project	Bridge #046-0082	Date	7/18/90
Route	FAI 04	Bored By	K. Whittington
Sec	46-3HBR	STA.	24+90
County	Kankakee	Boring No.	2 (E. Abut.)
		Station	25+96
		Offset	8' Rt.
		Checked By	W. Beck

Surface Water El.	Groundwater El. at Completion	Plugged	After	Hours	EL	N	Qu	W%
Ground Surface	280.7	0						
					278.2			
					256.2	13		18
					254.7	7	0.4	21
					253.7	25	10.1	34
					274.2	6	0.4	17
					272.2	4	0.7	22
					269.7	3		20
					267.2	5	1.0	18
					266.2	6		20
					263.7	8	0.4	14
					261.2	21		13
					20	12	0.4	16
					45			

Soils	EL	N	Qu	W%
MEDIUM GR. SAL	256.2	13		18
SOFT BR. SAL (FILL)	254.7	7	0.4	21
VERY SOFT GR. SAL	253.7	25	10.1	34
DENSE GR. SA. & GR.	274.2	6	0.4	17
MEDIUM BR. SIC-TILL (FILL)	272.2	4	0.7	22
DENSE GR. FINE SAND	269.7	3		20
HARD GR. SILT	267.2	5	1.0	18
MEDIUM BL. SAL	266.2	6		20
HARD GR. SILT	263.7	8	0.4	14
VERY STIFF GR. SIL-TILL	261.2	21		13
MEDIUM GR. SAND	20	12	0.4	16
	45			

Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

Soils	EL	N	Qu	W%
DENSE BR. SA. & SILT	45			70
	234.7	23	4.0	12
	16	17		
	232.7			
HARD BR. SIC-TILL	50			75
	224.7	26	4.9	15
HARD GR. CLAY & SILT	224.2	26	4.5	19

N - Standard Penetration Test - Blows Per Foot To Drive 2" O.D. Split Spoon Sampler 12" With 140 # Hammer Falling 30"  
 Qu - Unconfined Compressive Strength - 1/sf  
 w - Water Content - Percentage Of Oven Dry Weight - %  
 Type Failure  
 B - Bulge Failure  
 S - Shear Failure  
 E - Estimated Value  
 P - Penetrometer

DESIGNED: *Mary H. Blodgett*  
 CHECKED: *S.S.*  
 DRAWN: *C. Com*  
 CHECKED: *MKB*

**BORING LOGS**  
 F.A.I. ROUTE 57 SECTION 46-3HBR  
 STA. 24+90.00 (C.H. 40)  
 STA. 290+97.25 (F.A.I. RTE. 57)  
 KANKAKEE COUNTY  
 S11 WEST CAPITOL SPRINGFIELD, ILLINOIS 62704 (217) 928-2958  
 Ozyurt Engineers, Inc. FILE NO. 89-24B  
 CONSULTING ENGINEERS DATE

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PLOT SCALE =	NTS	DRAWN -	C. Com	REVISED -	
PLOT DATE =	12/4/2020	CHECKED -	MKB	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0113  
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	201
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

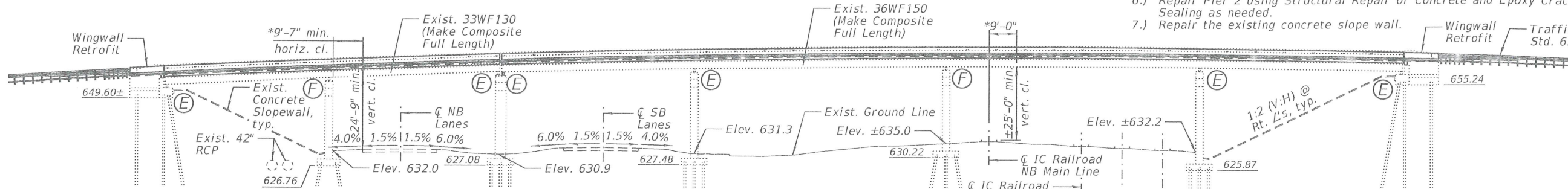
Benchmarks: BM 108, Cut "□" in SE corner of North Wingwall at West Abutment of SN 046-0089. Elevation = 665.75, FAI 57 Baseline Station 548+77.12, 306.43' RT.

Existing Structure: Structure No. 046-0089 was originally constructed in 1968 as Section 46-4HVB. In 2002, deck repairs, expansion joint reconstruction, bearing replacement, and structural steel repairs were completed. The steel beams were painted in 2008. The superstructure includes two bridge units: a two-span continuous unit and a four-span continuous unit, each consisting of non-composite rolled steel beams with a 7" cast-in-place concrete deck. The substructure consists of stub abutments supported by driven steel piles and hammerhead piers supported by driven steel piles. The back-to-back of abutments length measures 432'-10" and the out-to-out of deck width measures 30'-0". The span lengths are 56'-2" and 58'-10" (unit 1), and 66'-5", 87'-0", 87'-9", and 70'-0" (unit 2). The structure is skewed 18° 26' 25" left forward. The road will be closed and traffic detoured during construction.

No Salvage.

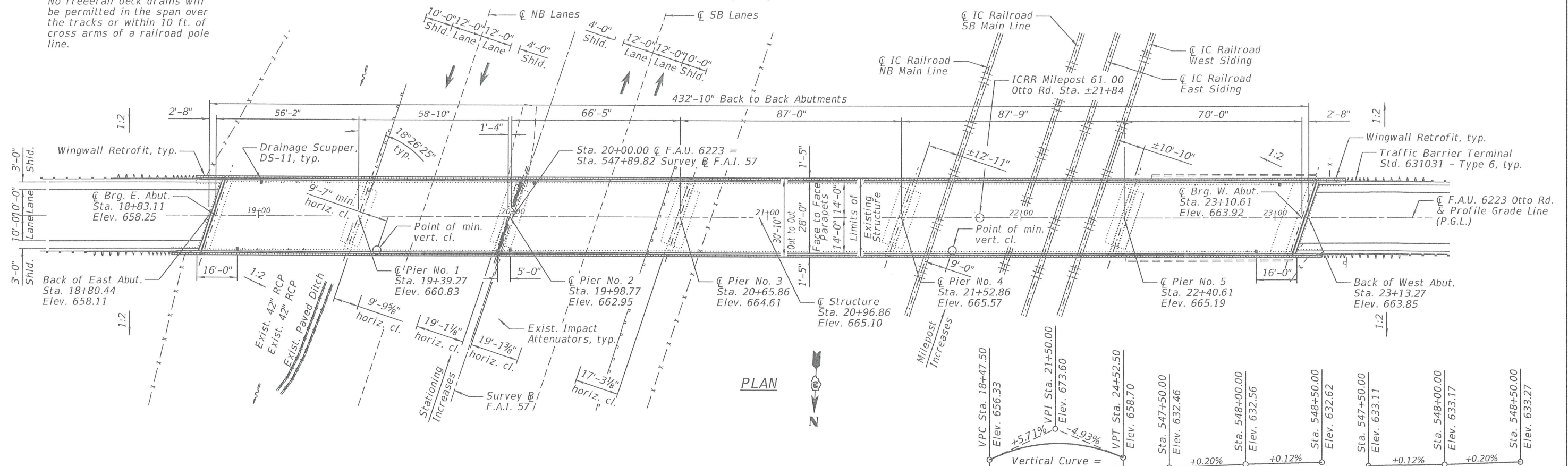
### SCOPE OF WORK

- 1.) Remove and replace the existing concrete deck and expansion joints.
- 2.) Jack and replace the existing bearings on the west side of Pier No. 2.
- 3.) Zone clean and paint the existing structural steel only at the deck joints and on the fascia beams, from the East Abutment to Pier No. 3.
- 4.) Install stud shear connectors in order to make the existing steel beams composite with the cast-in-place, reinforced concrete deck.
- 5.) Retrofit the existing wingwalls to constant slope parapets to match superstructure.
- 6.) Repair Pier 2 using Structural Repair of Concrete and Epoxy Crack Sealing as needed.
- 7.) Repair the existing concrete slope wall.



### NOTE:

No freefall deck drains will be permitted in the span over the tracks or within 10 ft. of cross arms of a railroad pole line.



### DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

### LOADING HS20-44

No allowance for future wearing surface

### SEISMIC DATA

Seismic Performance Category (SPC) = A  
 Bedrock Acceleration Coefficient (A) = 0.042  
 Site Coefficient (S) = 1.0

### EXISTING DESIGN STRESSES

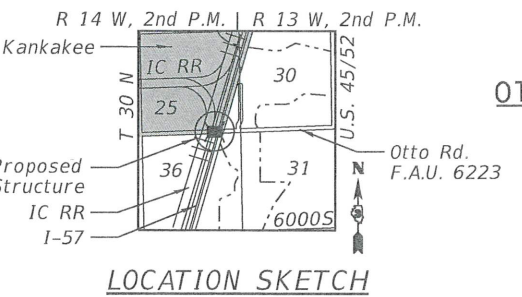
**FIELD UNITS:**  
 $f_c = 1,400$  psi (Superstructure and Substructure)  
 $f_c = 1,200$  psi (Deck Slab)  
 $f_s = 20,000$  psi (Reinforcement)  
 $f_s = 20,000$  psi (Structural Steel, A-36)  
 $vc = 75$  psi (Footings)  
 $n = 10$

### PROPOSED DESIGN STRESSES

**FIELD UNITS:**  
 $f'_c = 3,500$  psi  
 $f'_c = 4,000$  psi (Superstructure Concrete)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (Structural Steel)

**APPROVED**  
 For Structural Adequacy Only  
 [Signature]  
 Engineer of Bridges & Structures

1/25/21  
 date  
**JAMES K. CLINARD**  
 LICENSED STRUCTURAL ENGINEER  
 NO. 081-004655  
 STATE OF ILLINOIS  
 expires 11-30-2022  
 [Signature]  
 PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 184-001717



**GENERAL PLAN & ELEVATION**  
**OTTO ROAD OVER I-57 AND IC RAILROAD**  
**F.A.U. 6223**  
**SECTION 46-(3.4)RS-4 & I-1**  
**KANKAKEE COUNTY**  
**STATION 20+96.86**  
**STRUCTURE NO. 046-0089**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 STRUCTURE NO. 046-0089

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3.4)RS-4 & I-1	KANKAKEE	278	202
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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**GENERAL NOTES**

No field welding is permitted except as specified in the contract documents.

The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

The end 6' of beams 1 thru 5 shall be painted at each abutment and pier2, and the exterior face and bottom flanges of beam 1 and 5 shall be painted from the east abutment to the centerline of pier3.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Existing structural steel shall be cleaned per Near White Blast Cleaning-SSPC-SP10. Existing steel shall be painted according to the requirements of Paint System 1-02/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/8. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

Containment of cleaning residue is required to control nuisance dust. See special Provisions.

**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 General Data
- 3 Slope Wall Repair Details & Drainage System
- 4-5 Top of Deck Elevations - Spans 1 & 2 (Unit 1)
- 6-7 Top of Deck Elevations - Spans 3 thru 6 (Unit 2)
- 8 Superstructure - Unit 1
- 9 Superstructure - Unit 2
- 10-11 Superstructure details
- 12 Drainage Scupper
- 13 Concrete Parapet Slipforming Option
- 14 Preformed Joint Strip Seal
- 15-18 Framing Plan and Details
- 19 Bearing Details
- 20 Abutment Plan & Details
- 21 Pier Repair Details

STATION 20+96.86  
RE-BUILT BY  
STATE OF ILLINOIS  
F.A.I. 57 SECTION 46-(3,4)RS-4 & I-1  
LOADING HS20-44  
STRUCTURE NO. 046-0089

**NAME PLATE**  
See Std. 515001

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Concrete Deck No. 2	Each	1	--	1
Concrete Removal	Cu. Yd.	--	10.1	10.1
Protective Shield	Sq. Yd.	1431	--	1431
Structure Excavation	Cu. Yd.	--	11.7	11.7
Concrete Superstructure	Cu. Yd.	490.1	13	503.1
Bridge Deck Grooving	Sq. Yd.	1336	--	1336
Protective Coat	Sq. Yd.	1747	--	1747
Stud Shear Connectors	Each	4815	--	4815
Cleaning and Painting Structural Steel, Location 2	L. Sum	1	--	1
Reinforcement Bars, Epoxy Coated	Pound	115830	1380	117210
Name Plates	Each	1	--	1
Preformed Joint Strip Seal	Foot	95	--	95
Elastomeric Bearing Assembly, Type II	Each	5	--	5
Jack and Remove Existing Bearings	Each	5	--	5
Drainage Scuppers, DS-11	Each	6	--	6
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)	Sq. Yd.	--	110	110
Slope Wall Repair	Sq. Yd.	--	32	32
Slope Wall Slurry Pumping	Cu. Yd.	--	10.7	10.7
Slope wall Crack Sealing	Foot	--	180	180
Epoxy Crack Injection	Foot	--	140	140
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 2	L. Sum	1	--	1
Bridge Cleaning and Painting Warranty, Number 2	L. Sum	1	--	1
Drainage System	L. Sum	1	--	1
Anchor Bolt, 1"	Each	10	--	10

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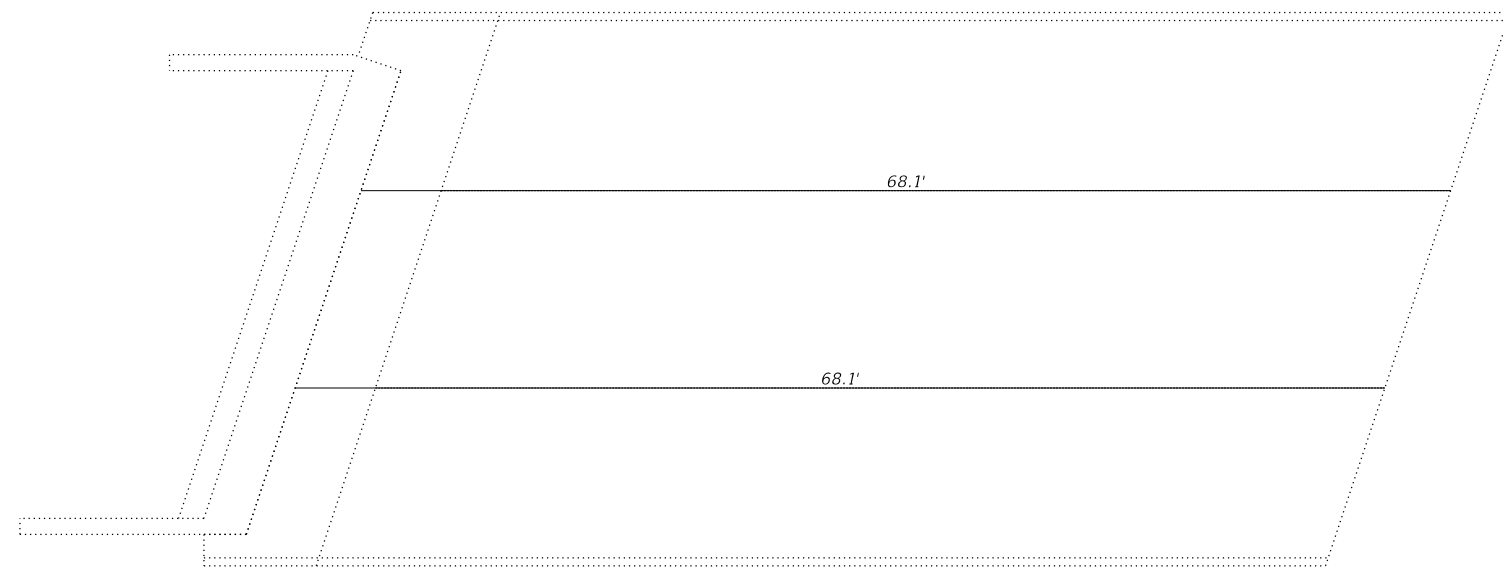
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 046-0089**

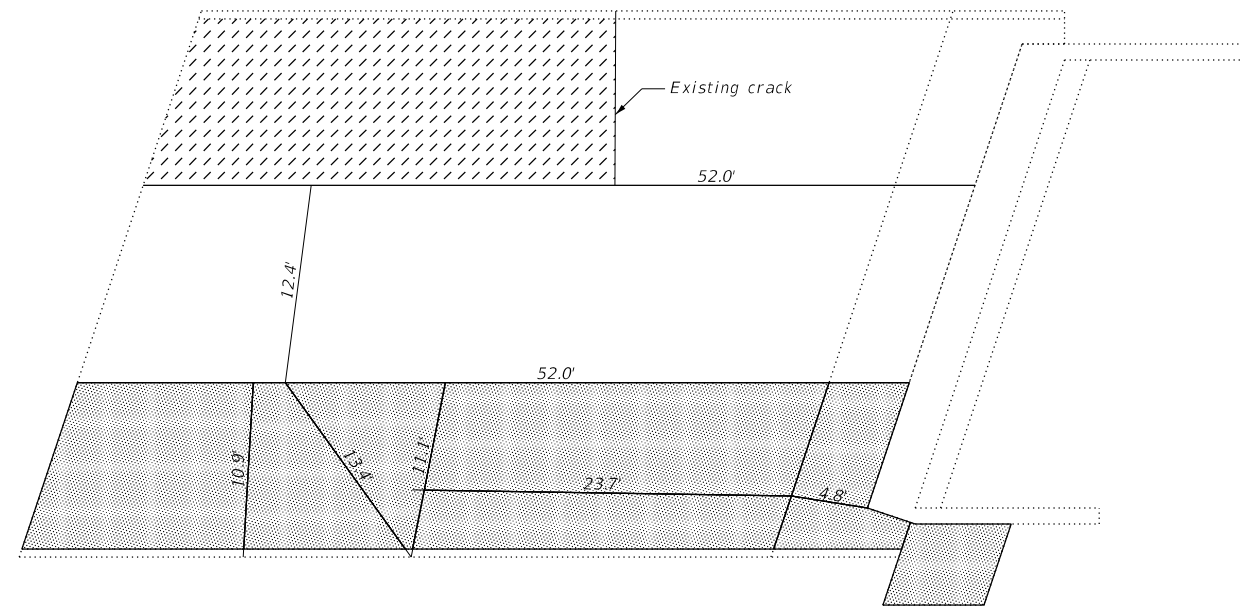
SHEET 2 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66F09				
		ILLINOIS	FED. AID PROJECT	

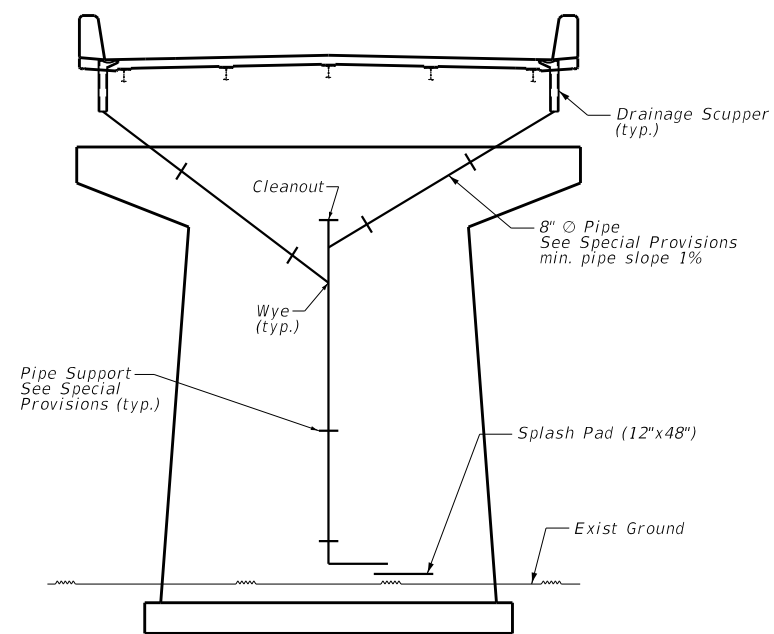
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PLAN  
 West Slope Wall



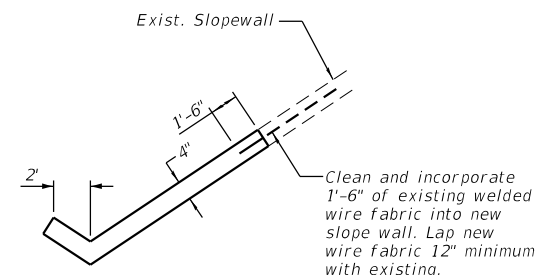
PLAN  
 East Slope Wall



DRAINAGE SYSTEM  
 (West face pier 2)



Note  
 Slope Wall shall be reinforced  
 with welded wire fabric  
 6 in. x 6 in. - W4.0 x W4.0  
 weighing 58 lbs per 100 sq. ft.



SLOPE WALL REPAIR DETAIL

- Slope Wall Repair
- Slope Wall Slurry Pumping
- Slope Wall Crack Sealing

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Slope Wall Crack Sealing	Foot	180
Slope Wall Repair	Sq Yd	32
Slope Wall Slurry Pumping	Cu Yd	10.7
Drainage System	LSum	1



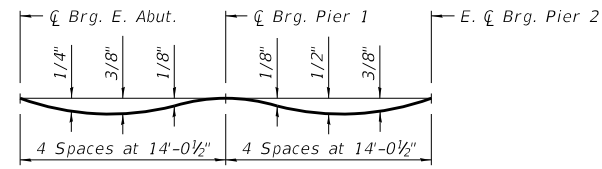
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SLOPE WALL REPAIR DETAILS & DRAINAGE SYSTEM  
 STRUCTURE NO. 046-0089**

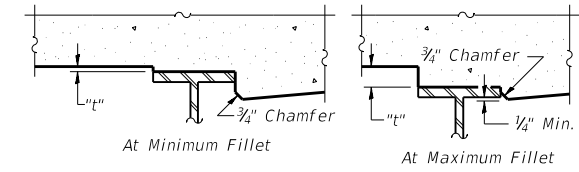
SHEET 3 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66F09	
			ILLINOIS FED. AID PROJECT	



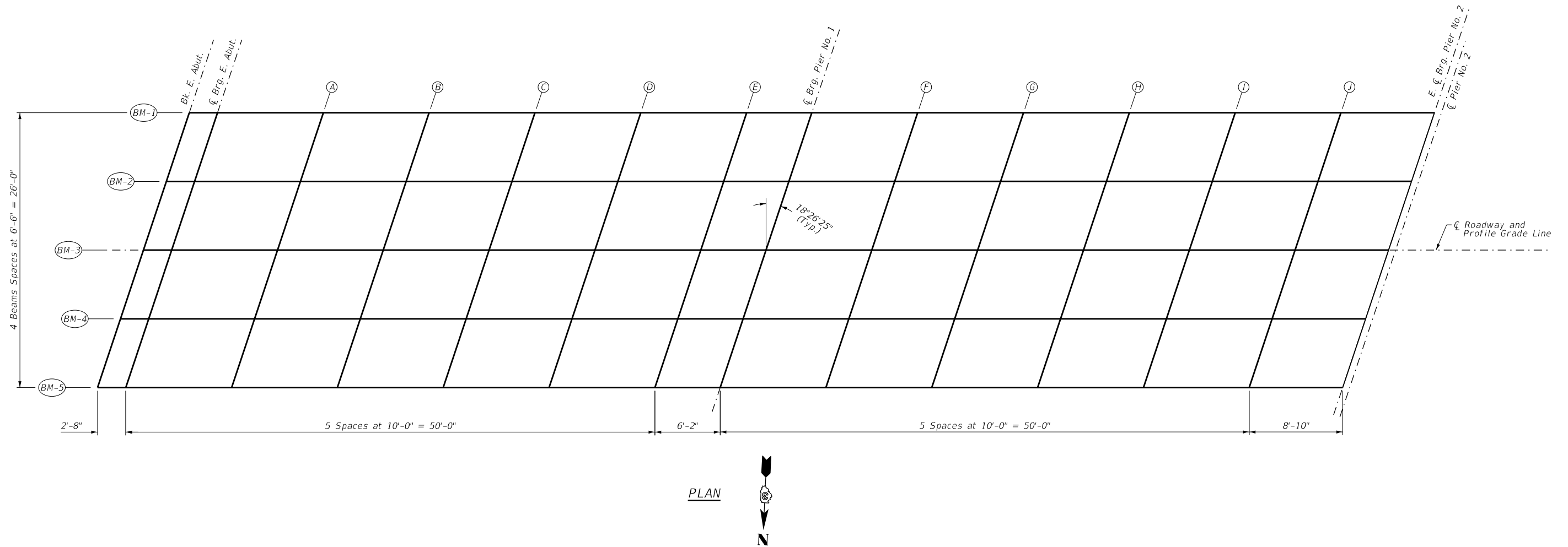
**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 5 of 21.



To determine "t": After existing deck has been removed, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 5 of 21, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - SPANS 1 & 2 (UNIT 1)  
STRUCTURE NO. 046-0089

SHEET 4 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	205
CONTRACT NO. 66F09				

ILLINOIS FED. AID PROJECT

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BEAM 1				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
BK. E. ABUT	18+84.77	-13.00	658.12	658.12
CL. BRG E. ABUT	18+87.44	-13.00	658.26	658.26
A	18+97.44	-13.00	658.75	658.77
B	19+07.44	-13.00	659.22	659.25
C	19+17.44	-13.00	659.68	659.71
D	19+27.44	-13.00	660.12	660.13
E	19+37.44	-13.00	660.54	660.54
CL. BRG. PIER #1	19+43.61	-13.00	660.79	660.79
F	19+53.61	-13.00	661.19	661.20
G	19+63.61	-13.00	661.56	661.59
H	19+73.61	-13.00	661.92	661.96
I	19+83.61	-13.00	662.26	662.30
J	19+93.61	-13.00	662.58	662.60
E. CL. BRG. PIER #2	20+02.44	-13.00	662.85	662.85

BEAM 2				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
BK. E. ABUT	18+82.61	-6.50	658.12	658.12
CL. BRG E. ABUT	18+85.28	-6.50	658.26	658.26
A	18+95.28	-6.50	658.75	658.77
B	19+05.28	-6.50	659.23	659.26
C	19+15.28	-6.50	659.69	659.72
D	19+25.28	-6.50	660.14	660.15
E	19+35.28	-6.50	660.56	660.56
CL. BRG. PIER #1	19+41.45	-6.50	660.82	660.82
F	19+51.45	-6.50	661.21	661.22
G	19+61.45	-6.50	661.59	661.62
H	19+71.45	-6.50	661.95	661.99
I	19+81.45	-6.50	662.30	662.33
J	19+91.45	-6.50	662.62	662.64
E. CL. BRG. PIER #2	20+00.28	-6.50	662.90	662.90

BEAM 3 / CENTERLINE ROADWAY AND PROFILE GRADE				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
BK. E. ABUT	18+80.44	0.00	658.11	658.11
CL. BRG E. ABUT	18+83.11	0.00	658.25	658.25
A	18+93.11	0.00	658.75	658.77
B	19+03.11	0.00	659.23	659.26
C	19+13.11	0.00	659.69	659.72
D	19+23.11	0.00	660.14	660.16
E	19+33.11	0.00	660.57	660.57
CL. BRG. PIER #1	19+39.28	0.00	660.83	660.83
F	19+49.28	0.00	661.23	661.24
G	19+59.28	0.00	661.61	661.64
H	19+69.28	0.00	661.98	662.01
I	19+79.28	0.00	662.32	662.36
J	19+89.28	0.00	662.66	662.68
E. CL. BRG. PIER #2	19+98.11	0.00	662.93	662.93

BEAM 4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
BK. E. ABUT	18+78.27	6.50	657.90	657.90
CL. BRG E. ABUT	18+80.94	6.50	658.04	658.04
A	18+90.94	6.50	658.54	658.56
B	19+00.94	6.50	659.03	659.05
C	19+10.94	6.50	659.50	659.52
D	19+20.94	6.50	659.95	659.96
E	19+30.94	6.50	660.38	660.38
CL. BRG. PIER #1	19+37.11	6.50	660.64	660.64
F	19+47.11	6.50	661.04	661.05
G	19+57.11	6.50	661.43	661.46
H	19+67.11	6.50	661.80	661.84
I	19+77.11	6.50	662.15	662.19
J	19+87.11	6.50	662.49	662.51
E. CL. BRG. PIER #2	19+95.94	6.50	662.77	662.77

BEAM 5				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
BK. E. ABUT	18+76.11	13.00	657.68	657.68
CL. BRG E. ABUT	18+78.77	13.00	657.82	657.82
A	18+88.77	13.00	658.32	658.34
B	18+98.77	13.00	658.81	658.84
C	19+08.77	13.00	659.29	659.31
D	19+18.77	13.00	659.74	659.75
E	19+28.77	13.00	660.18	660.18
CL. BRG. PIER #1	19+34.94	13.00	660.44	660.44
F	19+44.94	13.00	660.85	660.86
G	19+54.94	13.00	661.24	661.26
H	19+64.94	13.00	661.61	661.65
I	19+74.94	13.00	661.97	662.00
J	19+84.94	13.00	662.30	662.32
E. CL. BRG. PIER #2	19+93.77	13.00	662.59	662.59



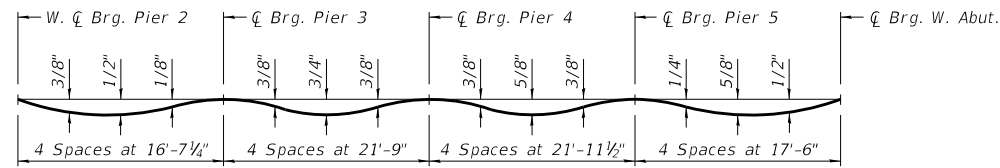
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CHECKED -	NV	REVISOR -	___	REVISIONS -	___
PLOT SCALE =		DRAWN -	NV	REVISOR -	___
PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISIONS -	___

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS - SPANS 1 & 2 (UNIT 1)  
 STRUCTURE NO. 046-0089**

SHEET 5 OF 21 SHEETS

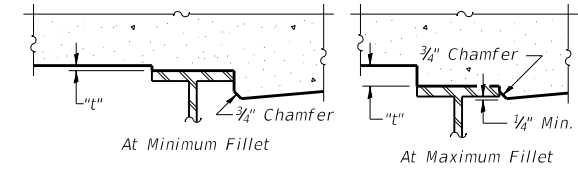
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	206
CONTRACT NO. 66F09				
		ILLINOIS	FED. AID PROJECT	



**DEAD LOAD DEFLECTION DIAGRAM**

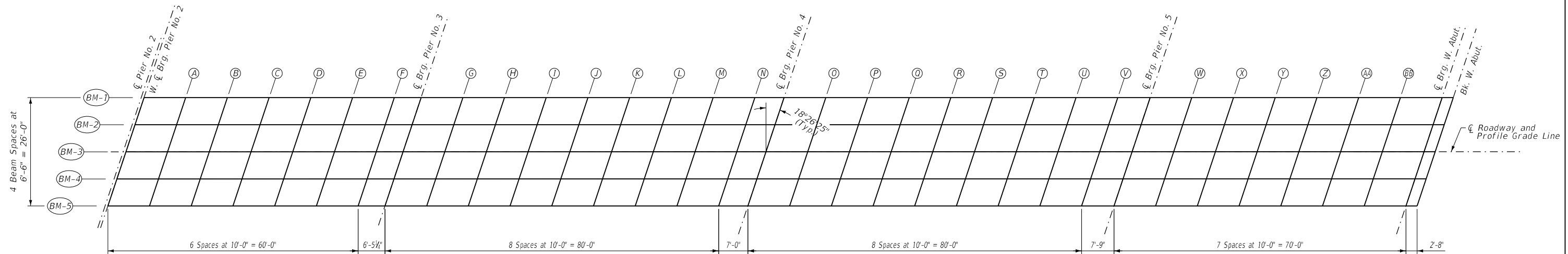
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 7 of 21.



To determine "t": After existing deck has been removed, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 7 of 21, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



PLAN



MODEL: Default  
FILE NAME: G:\Users\11111287-07-157 Bridges 046-0001 and 046-0089\Survey D366F09\SN 046-0089\Consultant\_Data\Chamlin\_2020\CAD\_Sheets\0460089-66F09-006-007-TOP-OF-DECK.dgn



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PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISIONS -	___

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - SPANS 3 THRU 6 (UNIT 2)  
STRUCTURE NO. 046-0089

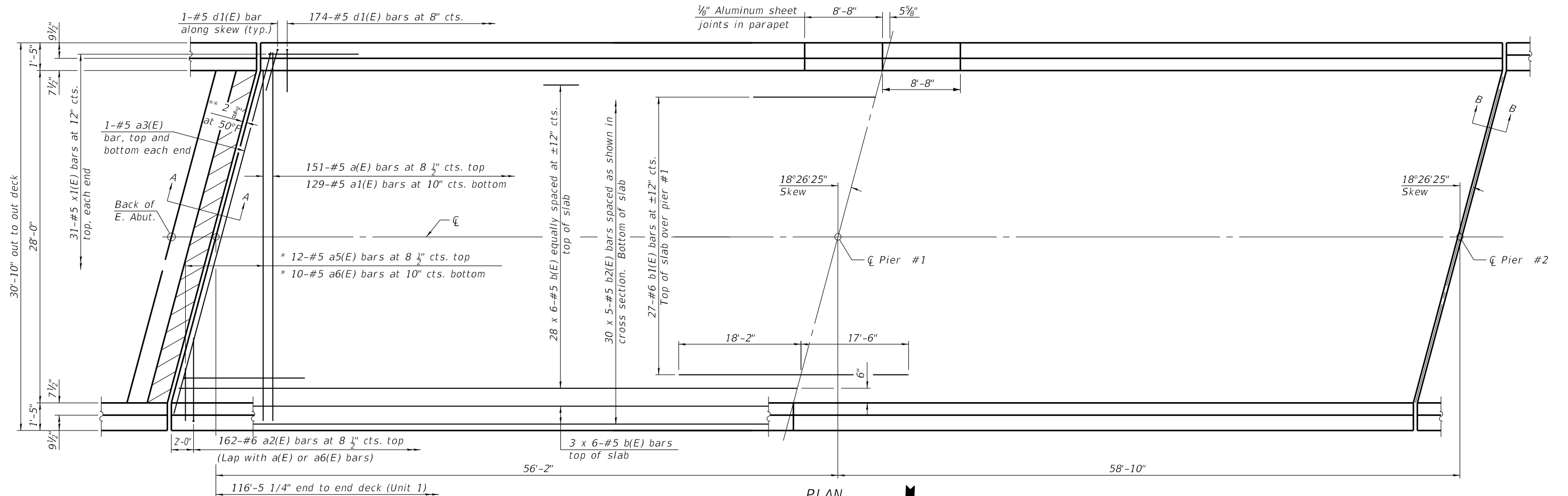
SHEET 6 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	207
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				





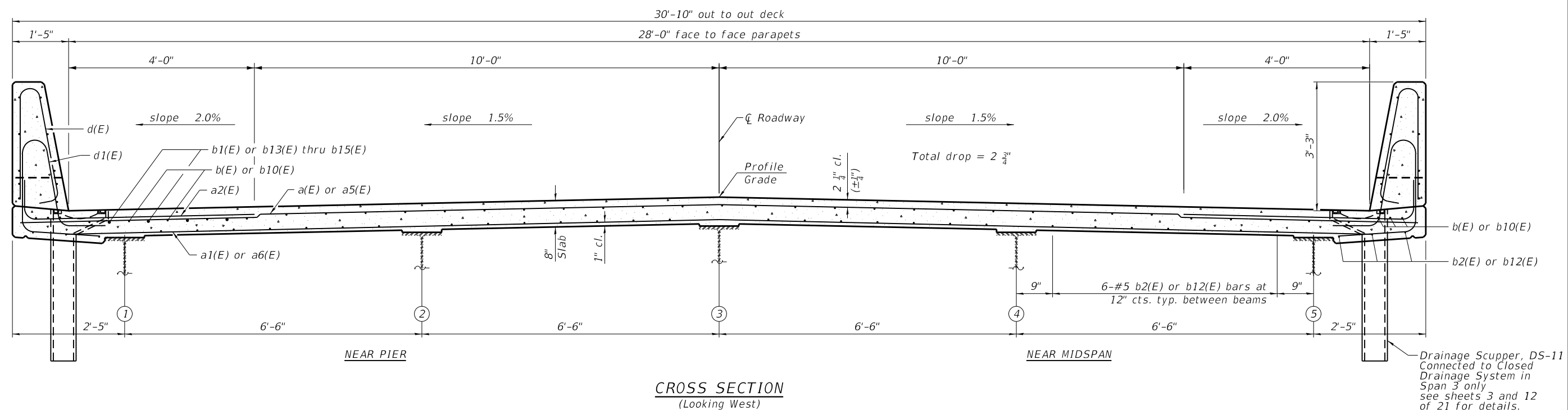
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 1/25/2021 11:13:45 AM



**MINIMUM BAR LAP**  
 #5 bar = 3'-6"

**PLAN**  
**UNIT 1**  
 (Spans 1 + 2)

Notes:  
 \* See Field Cutting Diagram on sheet 10 of 21.  
 \*\* Dimension showing concrete opening. For joint opening see sheet 14 of 21.  
 See sheet 10 and 11 of 21 for superstructure details and Bill of Material.  
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



**CROSS SECTION**  
 (Looking West)

Drainage Scupper, DS-11  
 Connected to Closed  
 Drainage System in  
 Span 3 only  
 see sheets 3 and 12  
 of 21 for details.



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		CHECKED -	NV	REVISED -	---
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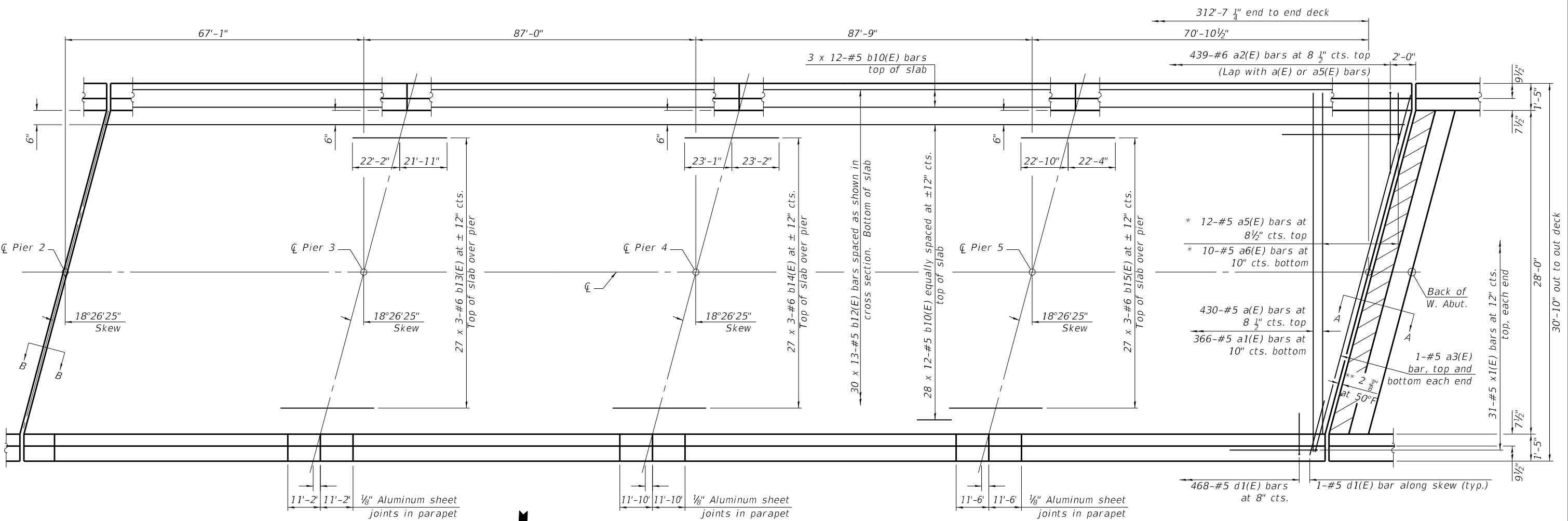
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE - UNIT 1**  
**STRUCTURE NO. 046-0089**

SHEET 8 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	209
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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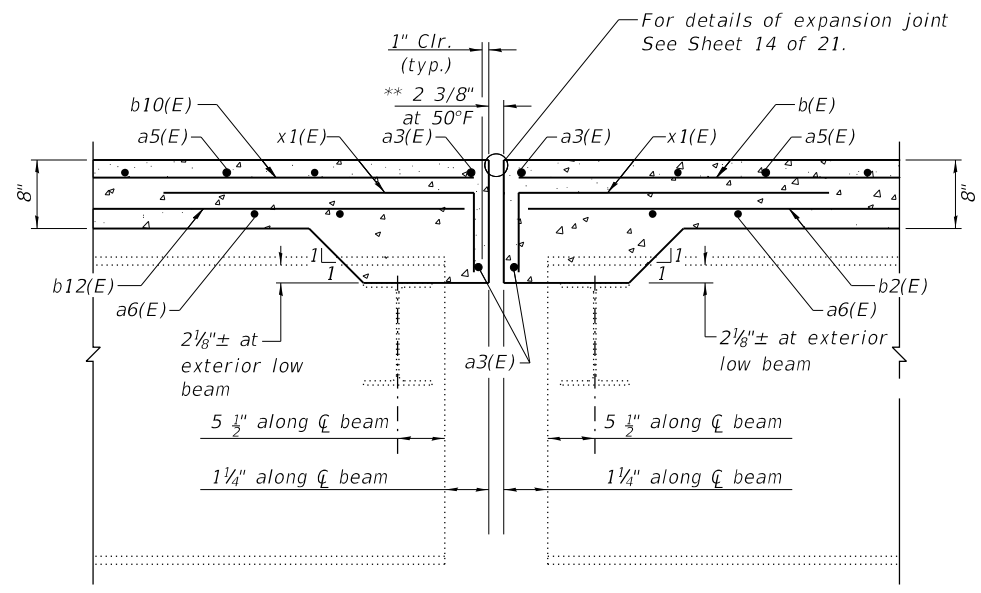


PLAN  
 UNIT 2  
 (Span 3 thru 6)

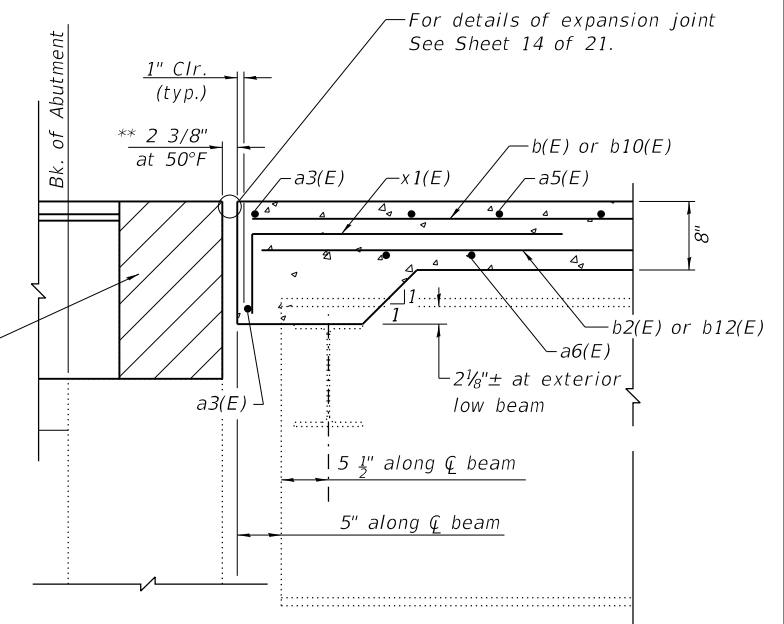
Notes:  
 See sheets 10 and 11 of 21 for superstructure details and Bill of Material.  
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

\* See Field Cutting Diagram on sheet 10 of 21.  
 \*\* Dimension showing concrete opening. For joint opening see sheet 14 of 21.

**MINIMUM BAR LAP**  
 #5 bar = 3'-6"  
 #6 bar = 4'-5"



SECTION B-B  
 (at Rt. L's)



SECTION A-A  
 (at Rt. L's)



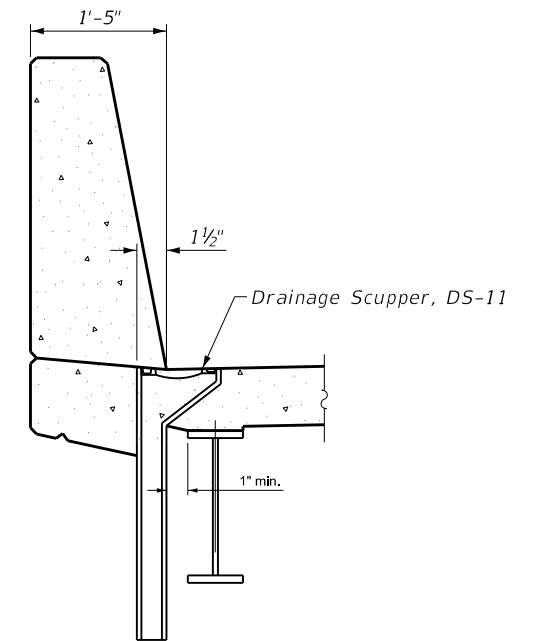
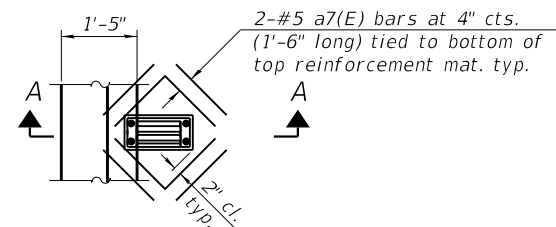
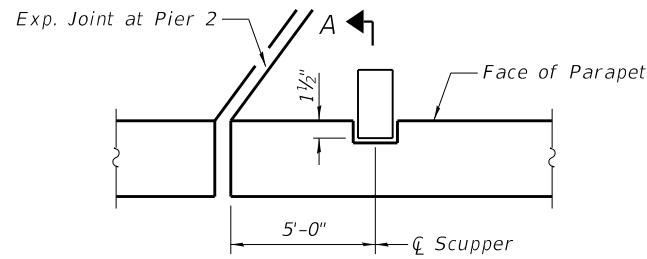
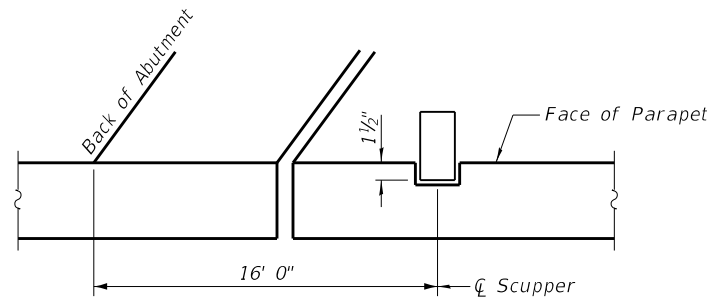
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STATE OF ILLINOIS  
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SUPERSTRUCTURE - UNIT 2  
 STRUCTURE NO. 046-0089

SHEET 9 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	210
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



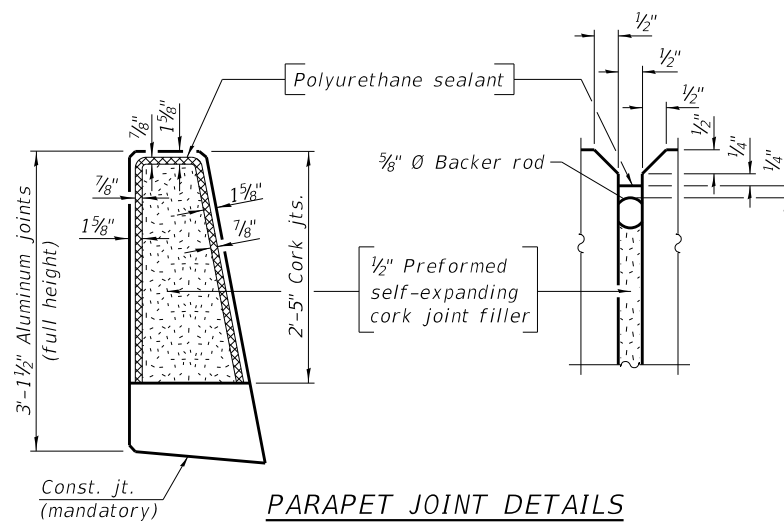
**DRAINAGE SCUPPER LOCATION**

**PLAN AT DRAINAGE SCUPPER**

**SECTION A-A**

Note:  
Cut longitudinal reinforcement to clear drainage scuppers.

**MINIMUM BAR LAP**  
#4 bar = 2'-5"

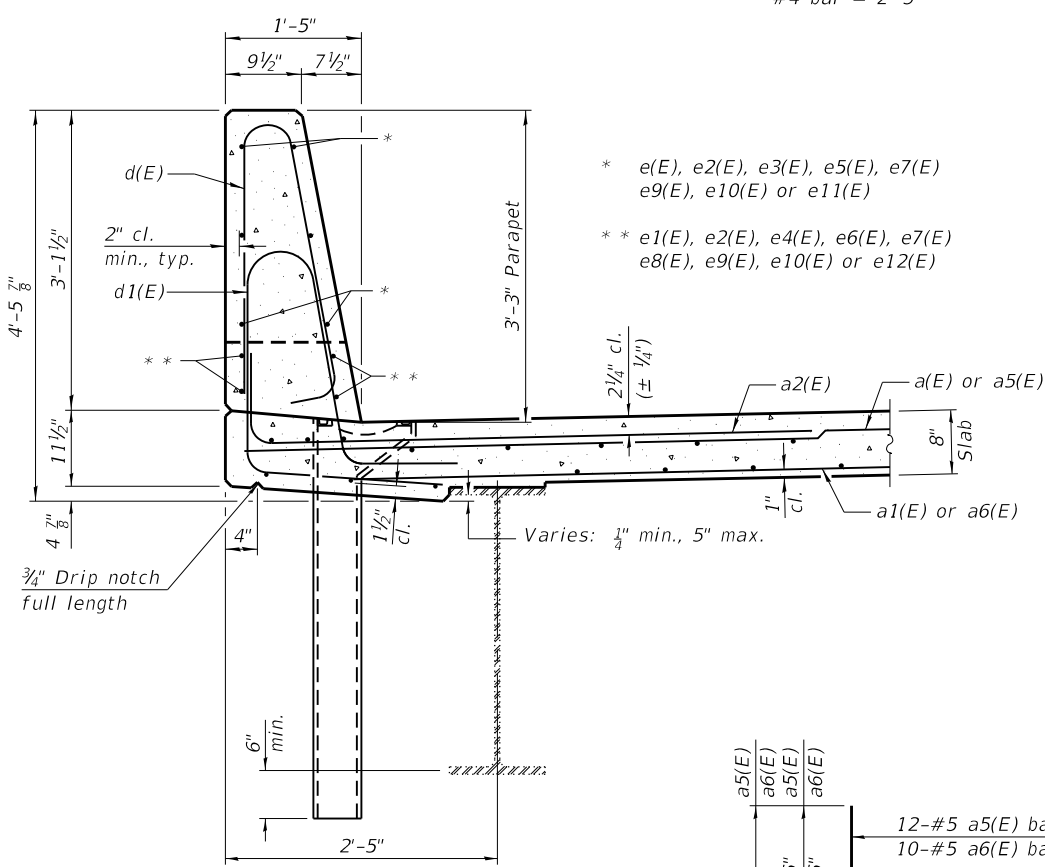


**PARAPET JOINT DETAILS**

**SUPERSTRUCTURE BILL OF MATERIAL**

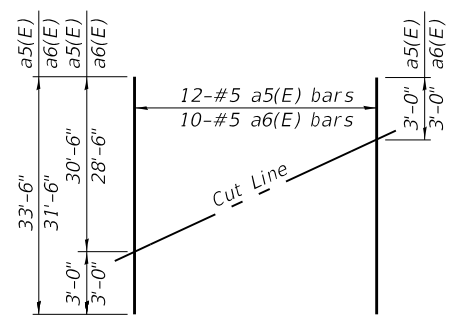
Bar	No.	Size	Length	Shape
a(E)	581	#5	30'-6"	—
a1(E)	495	#5	28'-6"	—
a2(E)	1202	#6	8'-4"	└
a3(E)	8	#5	30'-4"	—
a5(E)	24	#5	33'-6"	—
a6(E)	20	#5	31'-6"	—
a7(E)	48	#5	1'-6"	—
b(E)	204	#5	22'-4"	—
b1(E)	27	#6	35'-8"	—
b2(E)	150	#5	26'-1"	—
b10(E)	408	#5	29'-3"	—
b12(E)	390	#5	27'-4"	—
b13(E)	81	#6	17'-8"	—
b14(E)	81	#6	18'-5"	—
b15(E)	81	#6	18'-0"	—
d(E)	1288	#5	6'-5"	└
d1(E)	1288	#5	7'-10"	└
e(E)	120	#4	15'-10"	—
e1(E)	16	#4	25'-4"	—
e2(E)	40	#4	8'-5"	—
e3(E)	36	#4	16'-8"	—
e4(E)	16	#4	26'-6"	—
e5(E)	36	#4	18'-5"	—
e6(E)	16	#4	29'-0"	—
e7(E)	40	#4	10'-11"	—
e8(E)	48	#4	23'-1"	—
e9(E)	40	#4	11'-7"	—
e10(E)	40	#4	11'-3"	—
e11(E)	36	#4	19'-6"	—
e12(E)	24	#4	21'-5"	—
x1(E)	124	#5	4'-2"	└
Reinforcement Bars, Epoxy Coated		Lbs.	115830	
Concrete Superstructure		Cu. Yds.	490.1	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



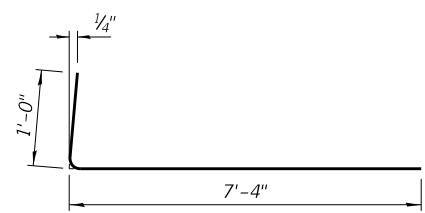
**SECTION THRU PARAPET**

Notes:  
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
The exterior surfaces of the scuppers shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the scuppers shall be cleaned according to the Society of Protective Coatings Spec. SSPC-SP1 prior to painting.

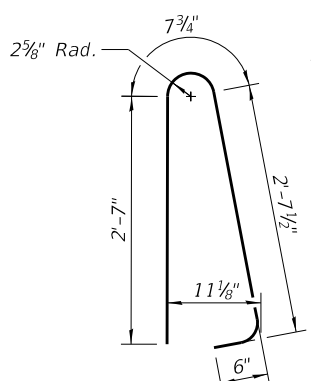


**FIELD CUTTING DIAGRAM**

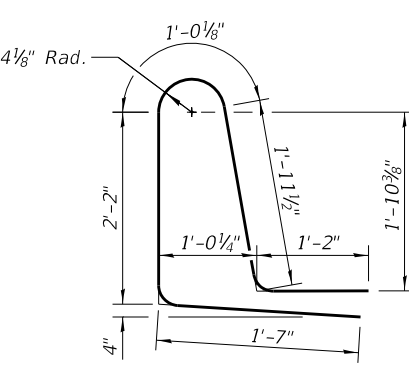
Order a5(E) and a6(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.



**BAR a2(E)**



**BAR d(E)**



**BAR d1(E)**

Note:  
Place scuppers approximately 1 1/2" under front edge of parapet as needed for adequate clearance to beam flange.

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REVISION NO. DATE BY

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REVISION NO. DATE BY

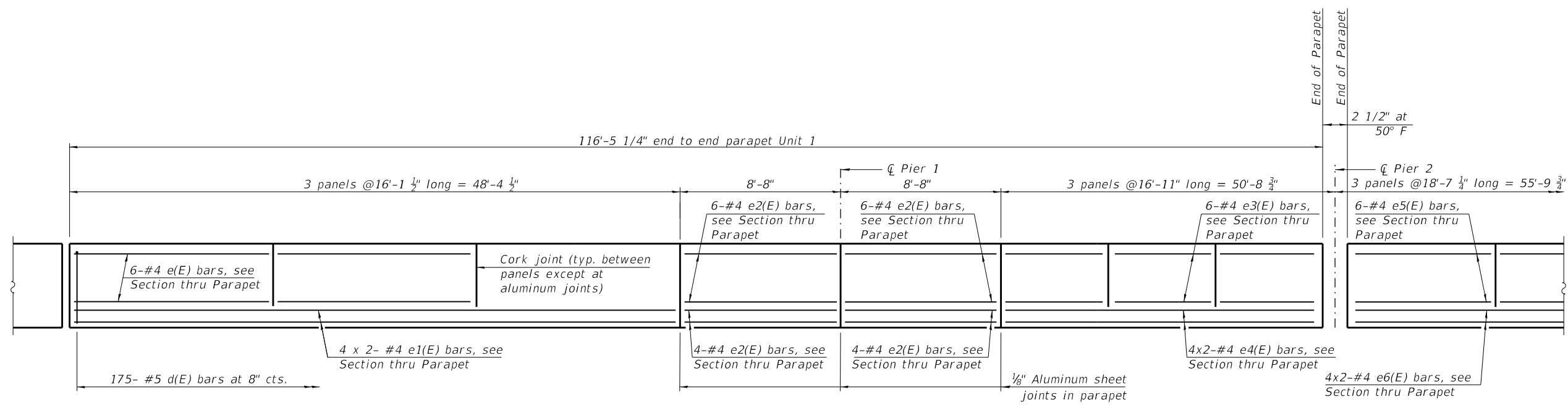
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 046-0089**

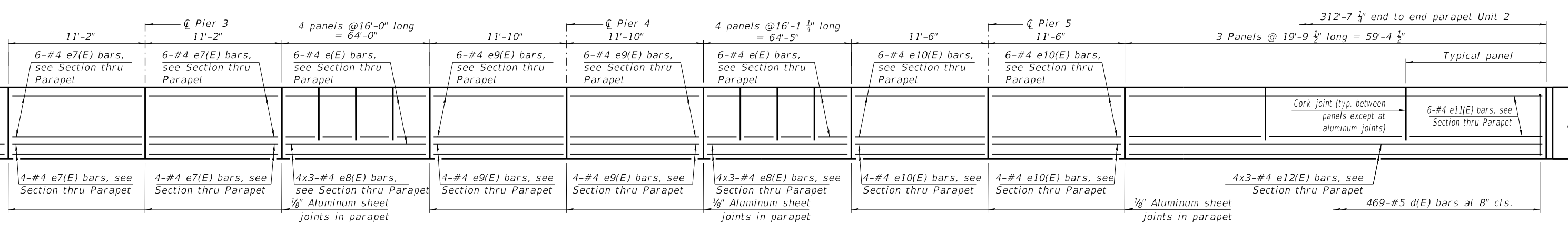
SHEET 10 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	211
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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**MINIMUM BAR LAP**  
 #4 bar = 2'-5"



**INSIDE ELEVATION OF SOUTH PARAPET  
 (OUTSIDE ELEVATION OF NORTH PARAPET)**



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PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISED -	___

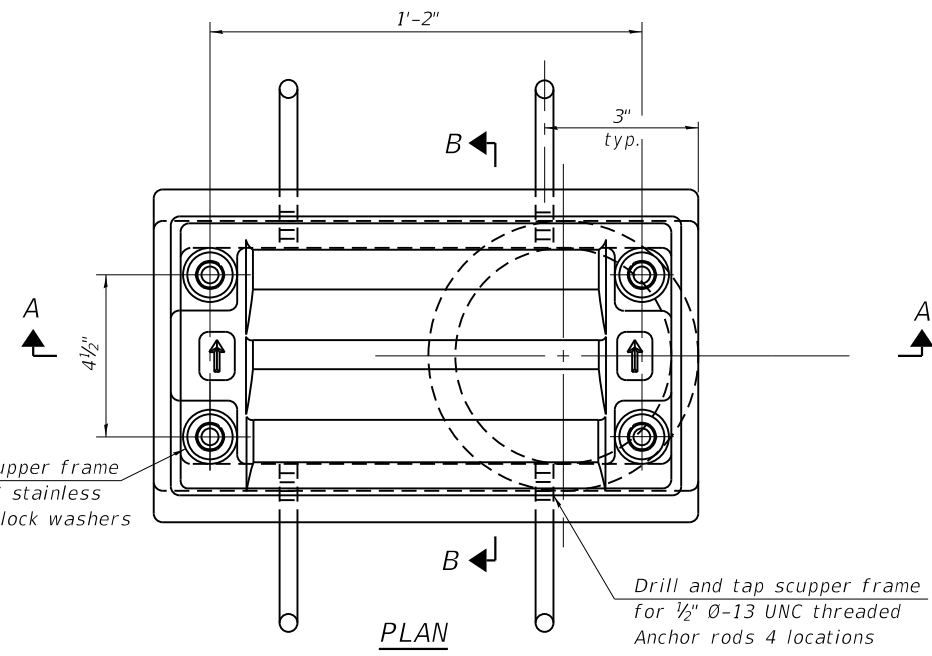
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 046-0089**

SHEET 11 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	212
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

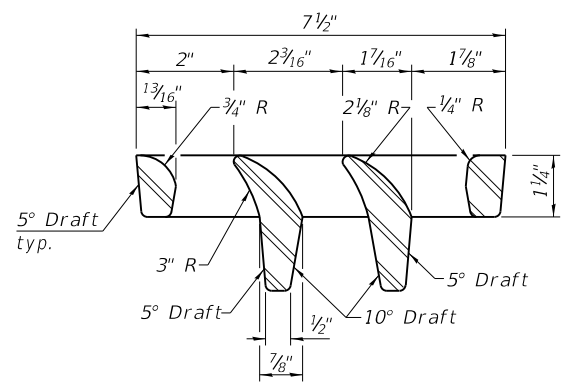
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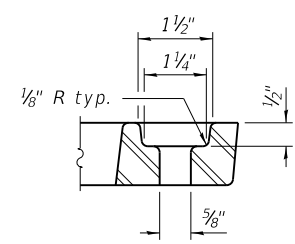
Drill and tap scupper frame for 1/2" Ø-13 UNC stainless steel bolts with lock washers 4 locations

Drill and tap scupper frame for 1/2" Ø-13 UNC threaded Anchor rods 4 locations

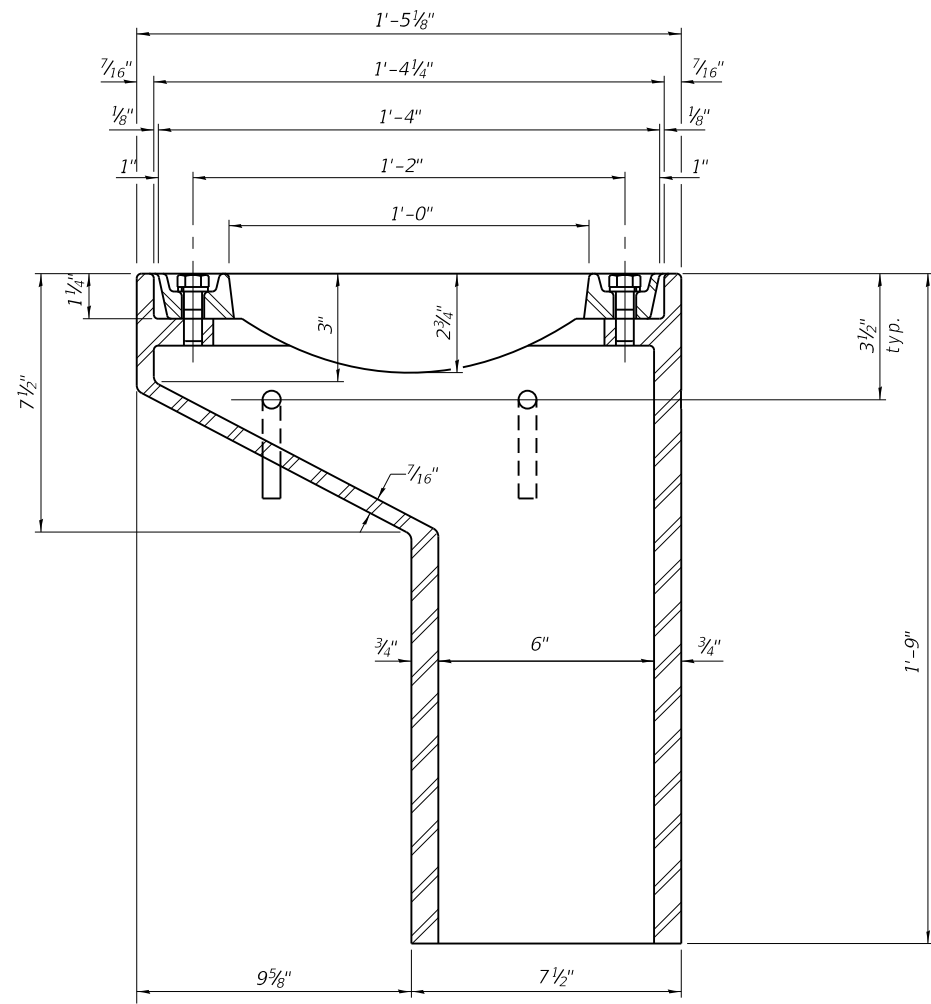
PLAN



VANE GRATE DETAIL

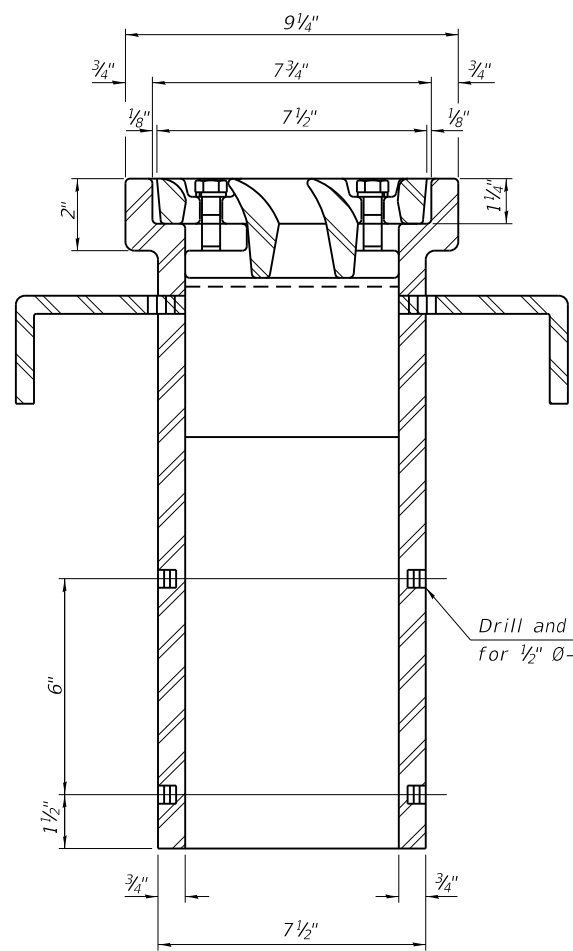


GRATE BOLT HOLE DETAIL



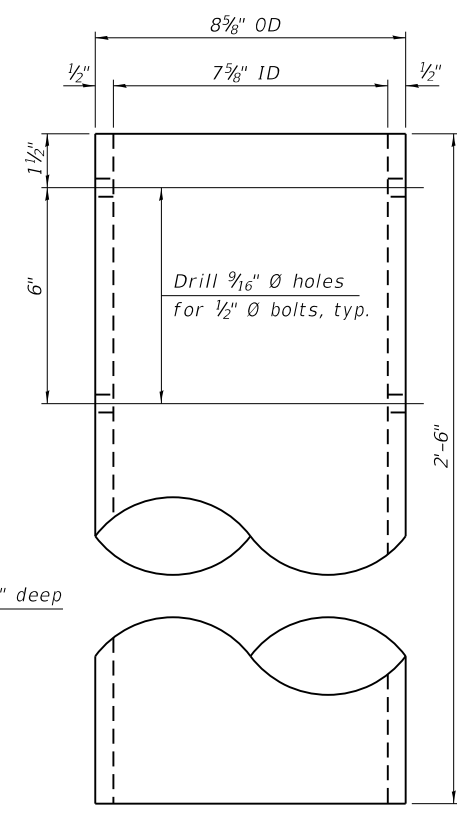
SECTION A-A

See sheet 10 of 21 for scupper location relative to parapet.

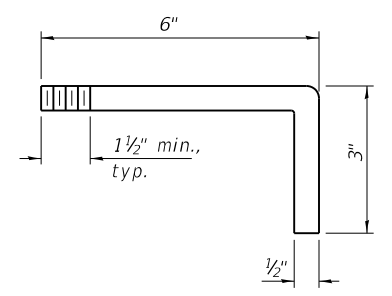


SECTION B-B

Drill and tap 4 holes 1/2" deep for 1/2" Ø-13 UNC bolts.



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	6

DS-11

1-1-2020



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PLOT DATE = 1/25/2021	DRAWN - NV	REVISED -
	CHECKED - JKC	REVISED -

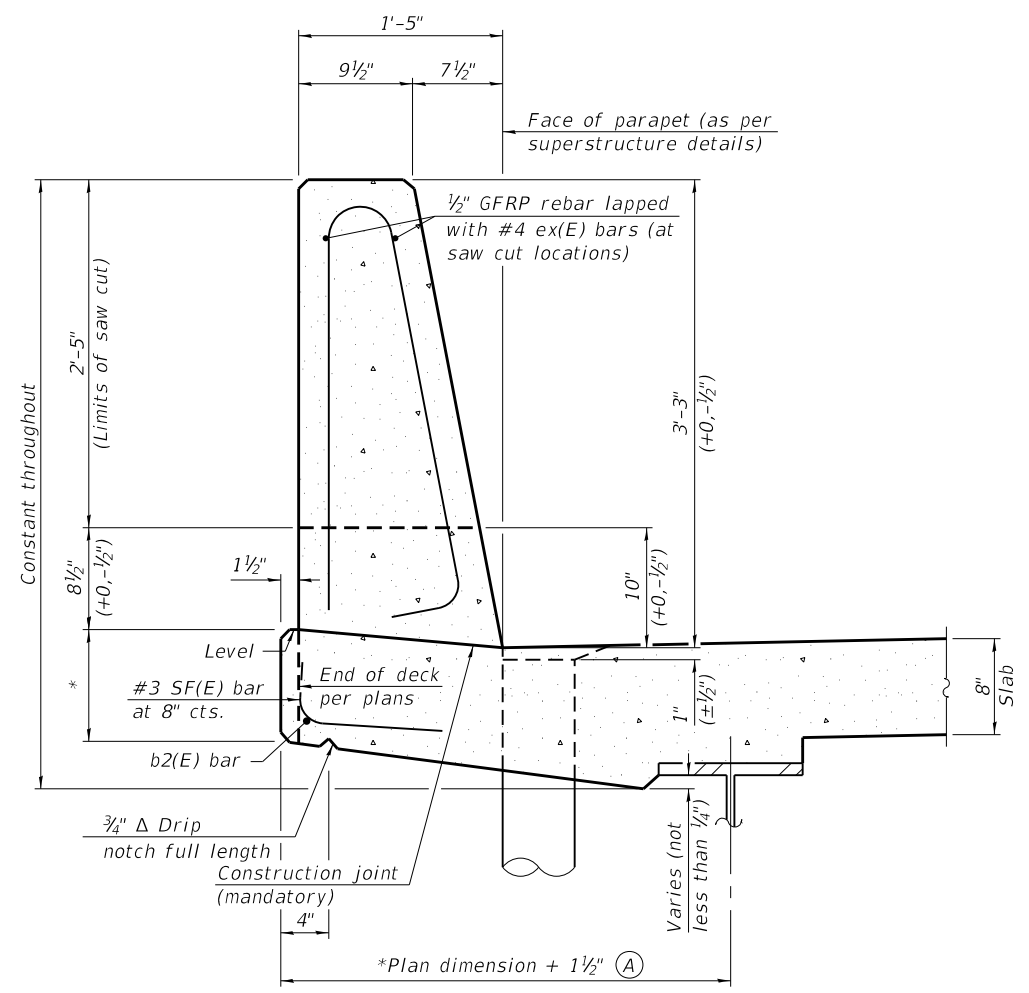
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11  
 STRUCTURE NO. 046-0089

SHEET 12 OF 21 SHEETS

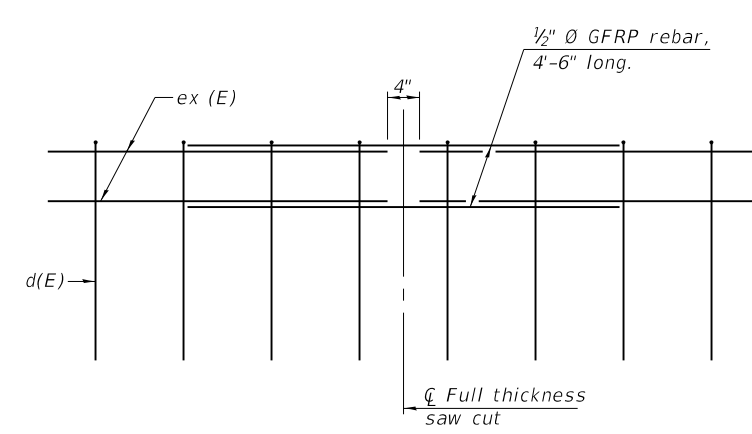
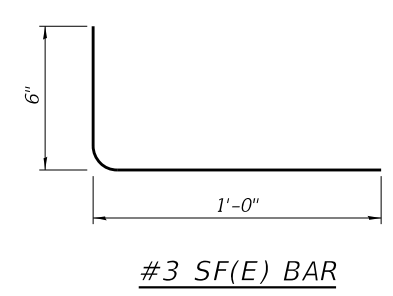
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	213
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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**39" CONSTANT-SLOPE PARAPET SECTION**  
 (Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

\*See Superstructure Details.



**GFRP REBAR STIFFENING DETAIL**  
 (Place as shown in parapet section at each parapet joint location.)

Notes:  
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.  
 Place full depth aluminum sheets as shown on superstructure details.  
 Replace all cork joint filler locations with a full thickness saw cut.  
 Steel superstructure shown. Other superstructure types similar.



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PLOT SCALE =		DRAWN -	NV	REVISED -	___
PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISED -	___

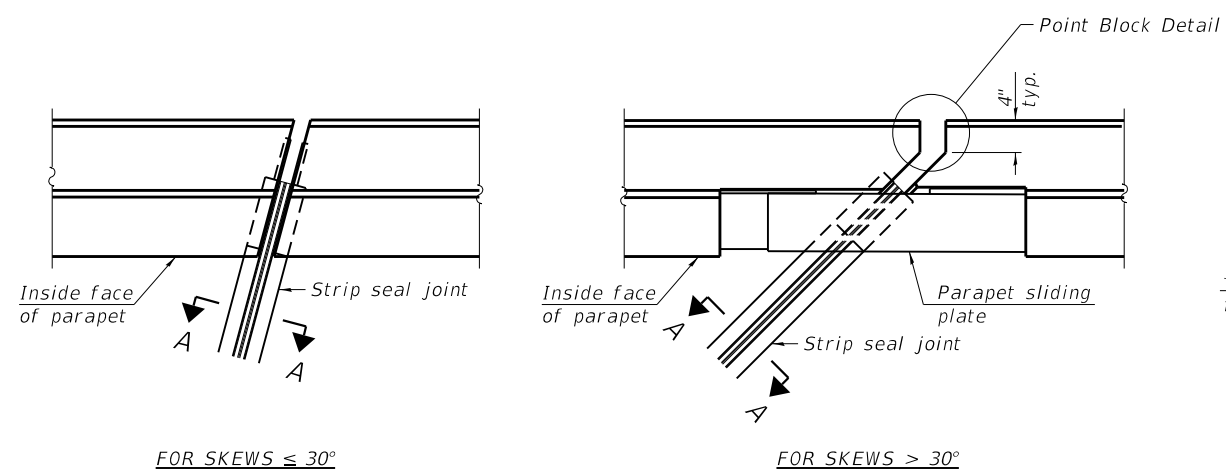
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION  
 STRUCTURE NO. 046-0089**

SHEET 13 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	214
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

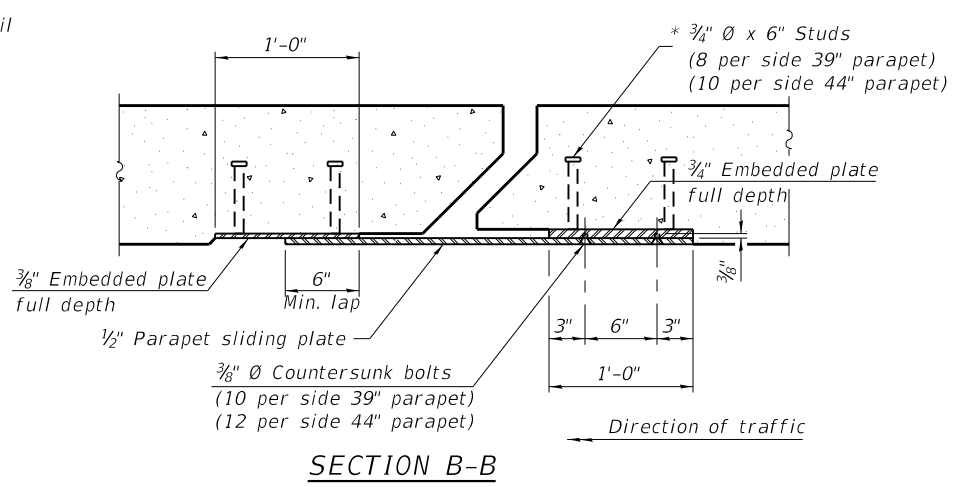
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FOR SKEWS  $\leq 30^\circ$

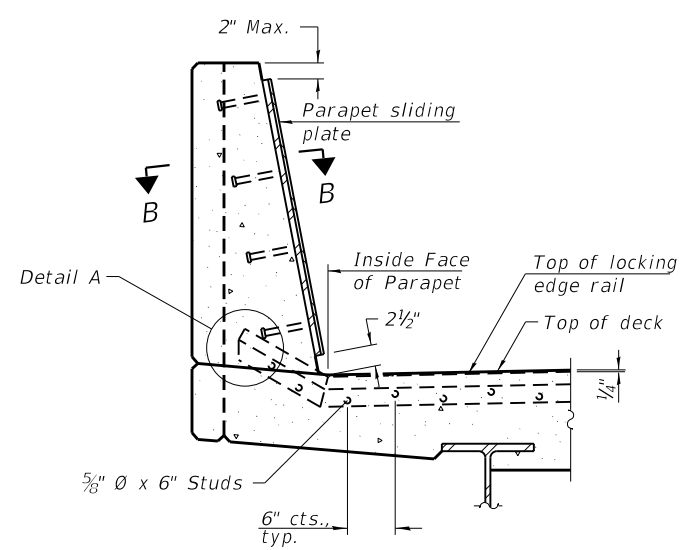
FOR SKEWS  $> 30^\circ$

PLAN AT PARAPET



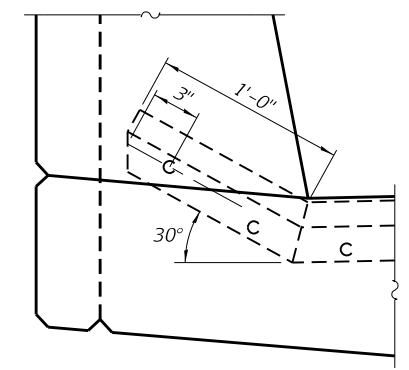
SECTION B-B

**Notes:**  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 The manufacturer's recommended installation methods shall be followed.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.  
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.  
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.  
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

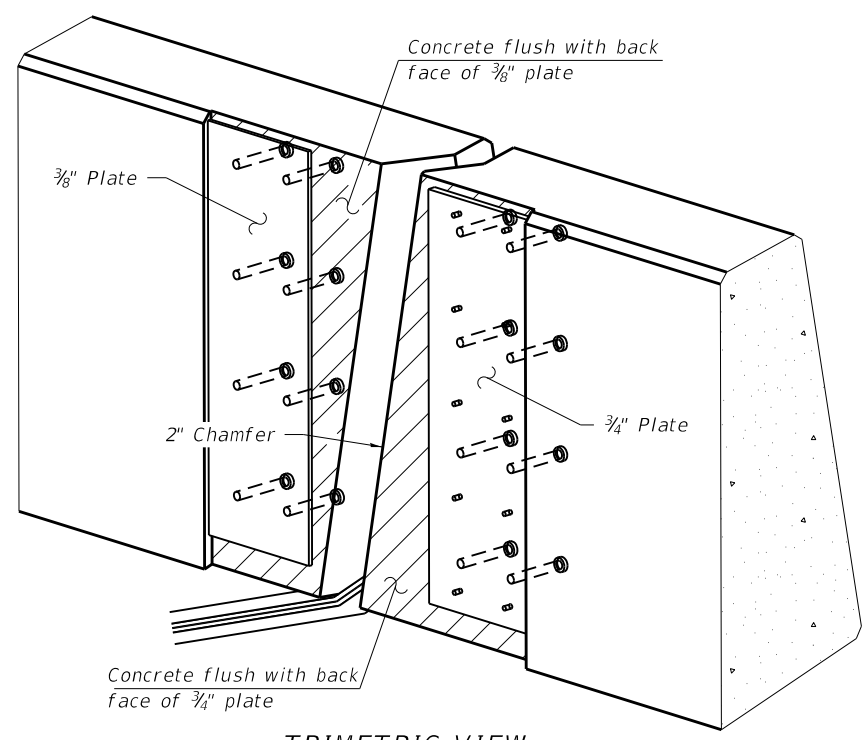


SECTION AT PARAPET

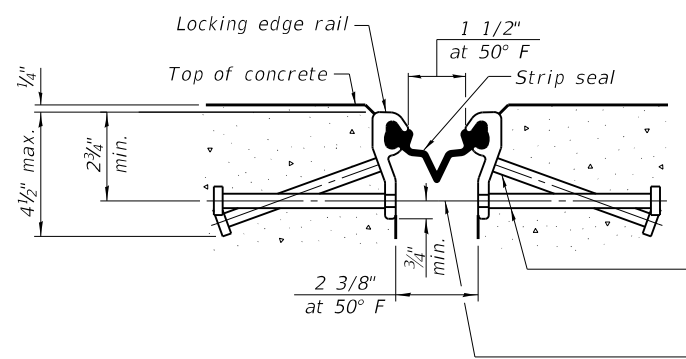
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



DETAIL A



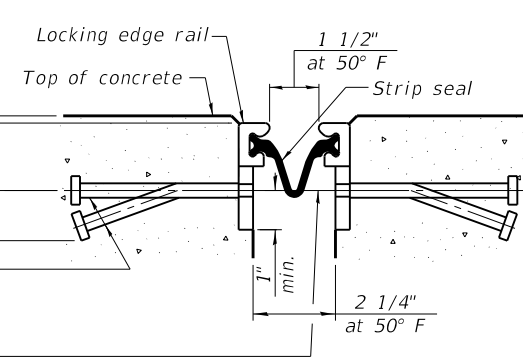
TRIMETRIC VIEW  
(Showing embedded plates only)



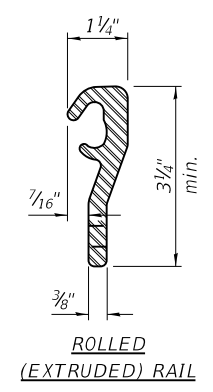
SHOWING ROLLED RAIL JOINT

\* 5/8"  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

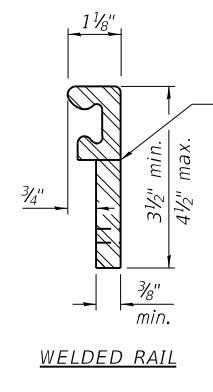
3/8"  $\phi$  threaded rods in 7/16"  $\phi$  holes at  $\pm 4$ -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT



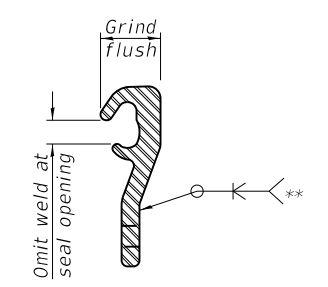
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	95

EJ-SS

1-1-2020



USER NAME = CHAMLIN	DESIGNED - JKC	REVISED -
PLOT SCALE =	CHECKED - NV	REVISED -
PLOT DATE = 1/25/2021	DRAWN - NV	REVISED -
	CHECKED - JKC	REVISED -

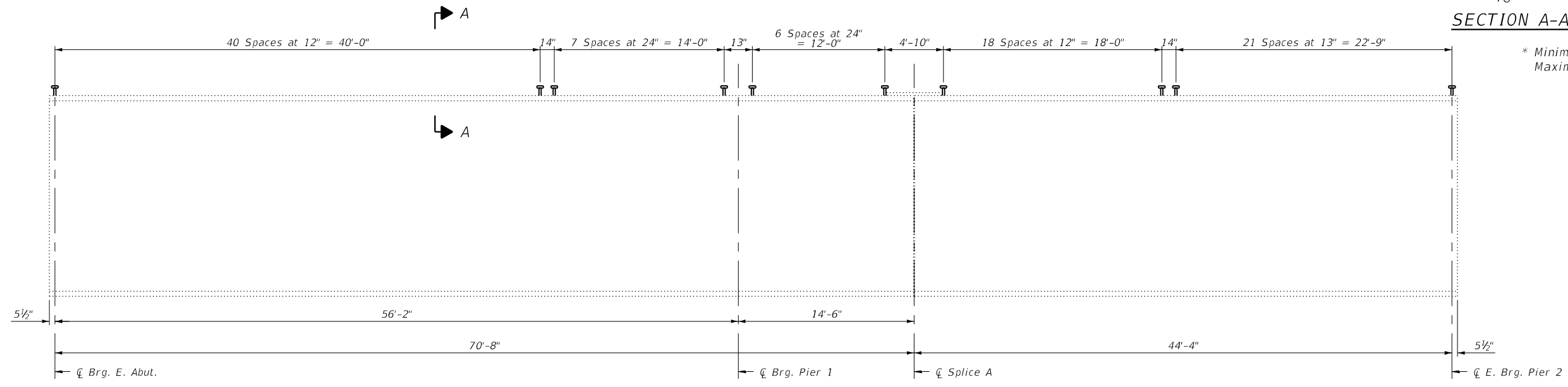
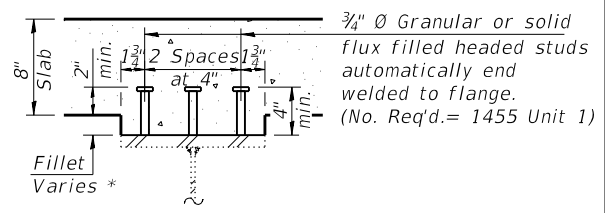
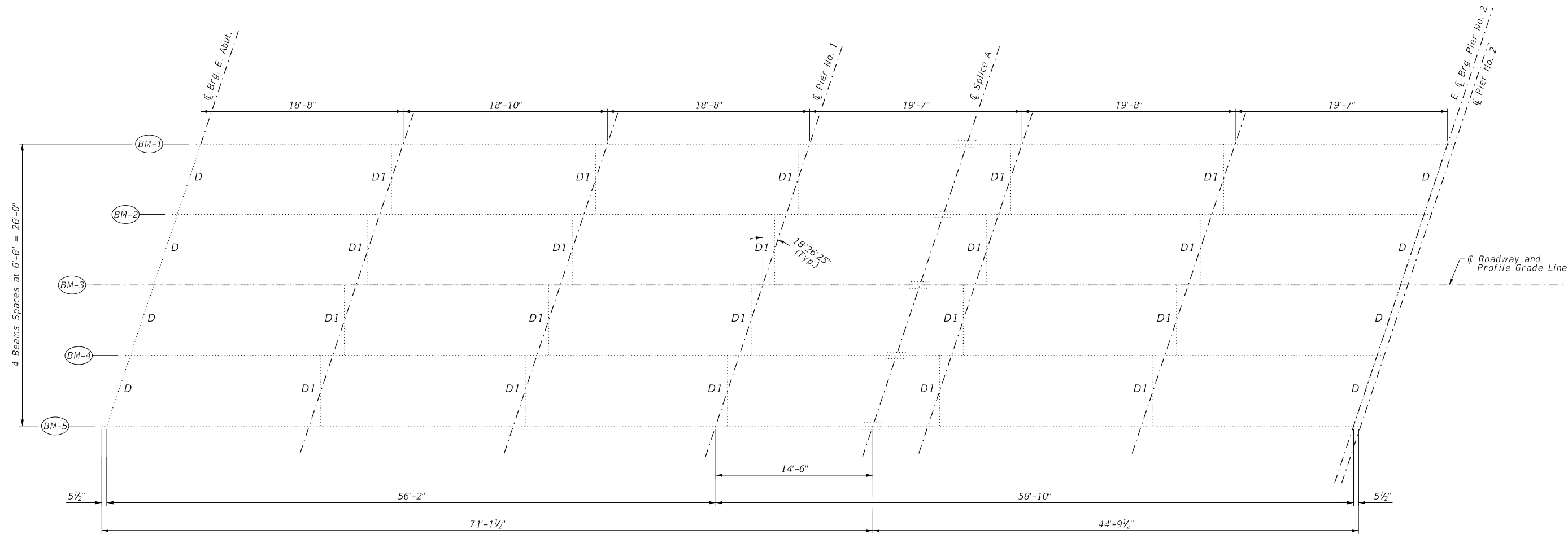
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINTS STRIP SEAL  
STRUCTURE NO. 046-0089

SHEET 14 OF 21 SHEETS

F.A.I. RTE. 57	SECTION 46-(3,4)RS-4 & I-1	COUNTY KANKAKEE	TOTAL SHEETS 278	SHEET NO. 215
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F09	

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\* Minimum fillet estimated to be 1"  
 Maximum fillet estimated to be 6"



USER NAME =	CHAMLIN	DESIGNED -	JKC	REVISED -	___
CHECKED -	NV	REVISIONS -	___	DATE	___
PLOT SCALE =		DRAWN -	NV	REVISED -	___
PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISED -	___

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND DETAILS - UNIT 1  
 STRUCTURE NO. 046-0089

SHEET 15 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	216
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



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INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier #1	0.6 Sp. 2
$I_s$	(in <sup>4</sup> )	6710.0	6710.0	6710.0
$I_c(n)$	(in <sup>4</sup> )	19085.1	19085.1	19085.1
$I_c(3n)$	(in <sup>4</sup> )	14087.3	14087.3	14087.3
$S_s$	(in <sup>3</sup> )	405.6	405.6	405.6
$S_c(n)$	(in <sup>3</sup> )	614.8	474.1	614.8
$S_c(3n)$	(in <sup>3</sup> )	556.1	474.1	556.1
$Z$	(in <sup>3</sup> )	--	--	--
$\bar{p}$	(k/ft)	0.79	0.79	0.79
$M\bar{p}$	(k)	169.0	328.4	198.2
$s\bar{p}$	(k/ft)	0.22	0.22	0.22
$M_s\bar{p}$	(k)	47.7	92.7	55.9
$M\bar{t}$	(k)	350.3	274.2	369.4
$M\bar{I}$	(k)	96.7	75.1	100.8
$\bar{p}_3 [M\bar{t} + I]$	(k)	745.0	582.2	783.7
$M\bar{a}$	(k)	1250.2	1304.2	1349.1
* $M\bar{u}$	(k)	1871.9	1422.2	1871.9
$f_s\bar{p}$ non-comp	(ksi)	5.00	9.72	5.86
$f_s\bar{p}$ (comp)	(ksi)	1.03	2.35	1.21
$f_s\bar{p}_3 [M\bar{t} + M\bar{I}]$	(ksi)	14.54	14.74	15.30
$f_s$ (Overload)	(ksi)	20.57	26.80	22.37
** $f_s$ (Total)	(ksi)	--	--	--
$VR$	(k)	56.1	--	59.3

INTERIOR GIRDER REACTION TABLE				
		Abut.	Pier #1	Pier #2 (East)
$R\bar{p}$	(k)	21.08	73.15	22.77
$R\bar{t}$	(k)	38.43	44.37	38.73
$R\bar{i}$	(k)	10.62	12.16	10.58
$R_{Total}$	(k)	70.12	129.69	72.08

\* Compact section  
 \*\* Braced non-compact and partially braced section

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$ (Total and Overload) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$ (Total and Overload) due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$ (Total and Overload) due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$Z$ : Plastic Section Modulus of the steel section in non-composite areas (in.<sup>3</sup>).

$\bar{p}$ : Un-factored non-composite dead load (kips/ft.).

$M\bar{p}$ : Un-factored moment due to non-composite dead load (kip-ft.).

$s\bar{p}$ : Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_s\bar{p}$ : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

$M\bar{t}$ : Un-factored live load moment (kip-ft.).

$M\bar{I}$ : Un-factored moment due to impact (kip-ft.).

$M\bar{a}$ : Factored design moment (kip-ft.).  
 $1.3 [M\bar{p} + M_s\bar{p} + \frac{5}{3} (M\bar{t} + M\bar{I})]$

$M\bar{u}$ : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

$f_s$  (Overload): Sum of stresses as computed from the moments below (ksi).  
 $M\bar{p} + M_s\bar{p} + \frac{5}{3} (M\bar{t} + M\bar{I})$

$f_s$  (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.3 [M\bar{p} + M_s\bar{p} + \frac{5}{3} (M\bar{t} + M\bar{I})]$

$VR$ : Maximum  $\bar{t}$  + impact shear range within the composite portion of the span for stud shear connector design (kips).



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		CHECKED -	NV	REVISED -	---
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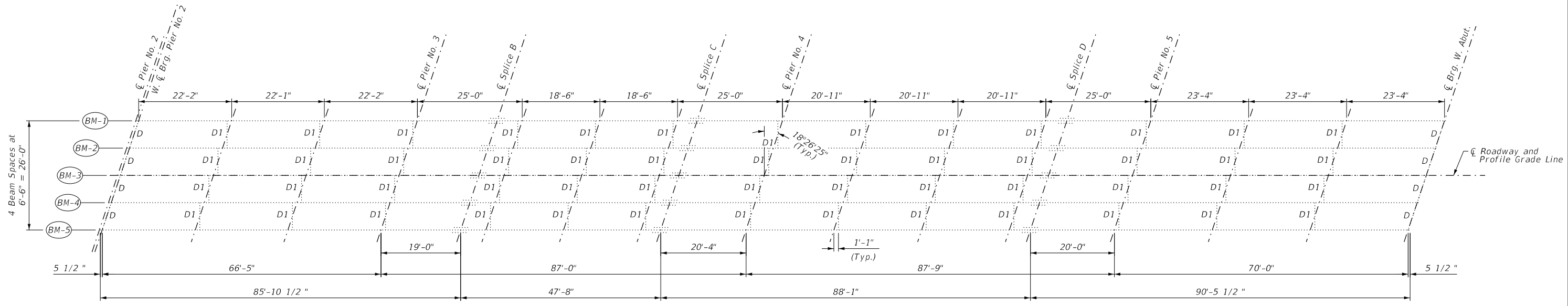
STATE OF ILLINOIS  
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FRAMING PLAN AND DETAILS - UNIT 1  
 STRUCTURE NO. 046-0089

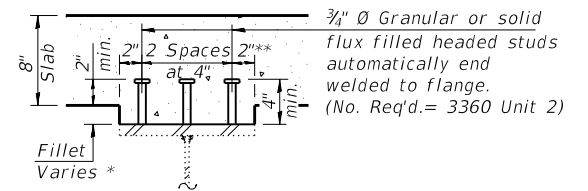
SHEET 16 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	217
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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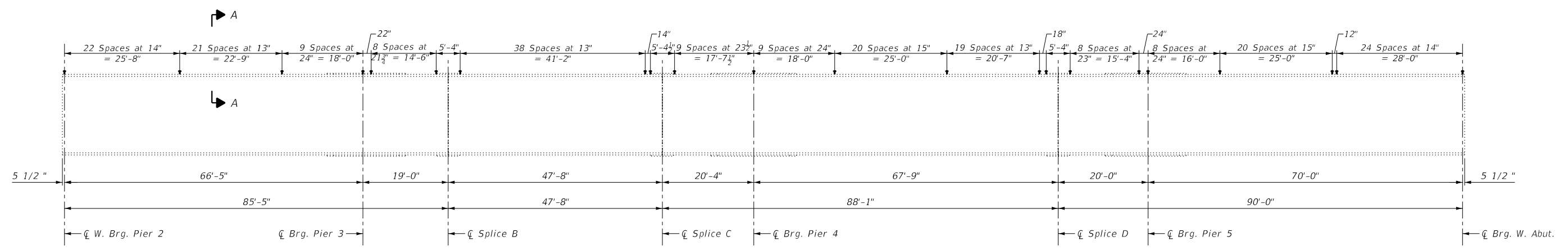


PLAN



SECTION A-A

\* Minimum fillet estimated to be 1"  
 Maximum fillet estimated to be 6"  
 \*\* 1 1/2" from edge of cover plates at pier 3, 4, & 5



GIRDER ELEVATION



USER NAME =	CHAMLIN	DESIGNED -	JKC	REVISED -	___
CHECKED -	NV	REVISIONS -	___	REVISIONS -	___
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PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISIONS -	___

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND DETAILS - UNIT 2  
 STRUCTURE NO. 046-0089

SHEET 17 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	218
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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INTERIOR GIRDER MOMENT TABLE							
	0.4 Sp. 3	Pier #3	0.5 Sp. 4	Pier #4	0.5 Sp. 5	Pier #5	0.6 Sp. 6
<i>I<sub>s</sub></i>	(in <sup>4</sup> )	9040	12685.5	9040	12685.5	9040	12685.5
<i>I<sub>c</sub>(n)</i>	(in <sup>4</sup> )	24336.1	24336.1	24336.1	24336.1	24336.1	24336.1
<i>I<sub>c</sub>(3n)</i>	(in <sup>4</sup> )	17849.4	17849.4	17849.4	17849.4	17849.4	17849.4
<i>S<sub>s</sub></i>	(in <sup>3</sup> )	503.6	687.6	503.6	687.6	503.6	687.6
<i>S<sub>c</sub>(n)</i>	(in <sup>3</sup> )	745.5	756.5	745.5	756.5	745.5	756.5
<i>S<sub>c</sub>(3n)</i>	(in <sup>3</sup> )	673.1	756.5	673.1	756.5	673.1	756.5
<i>Z</i>	(in <sup>3</sup> )	--	--	--	--	--	--
<i>ϕ</i>	(k/')	0.82	0.82	0.82	0.82	0.82	0.82
<i>M<sub>ϕ</sub></i>	(k)	229.1	510.1	245.2	554.1	243.1	541.3
<i>s<sub>ϕ</sub></i>	(k/')	0.22	0.22	0.22	0.22	0.22	0.22
<i>M<sub>sϕ</sub></i>	(k)	63.8	137.1	68.8	149.2	68.4	145.3
<i>M<sub>ϕ</sub></i>	(k)	437.7	431.9	464.5	477.4	471.2	447.8
<i>M<sub>I</sub></i>	(k)	114.7	107.5	112.4	112.2	113.3	110.2
<i>ϕ<sub>3</sub> [M<sub>ϕ</sub> + I]</i>	(k)	920.7	899.1	961.5	982.7	974.2	930.0
<i>M<sub>a</sub></i>	(k)	1577.6	2010.1	1658.2	2191.8	1671.4	2101.6
<i>M<sub>u</sub></i>	(k)	2557	2269.5	2846	2269.5	2805	2269.5
<i>f<sub>s</sub> ϕ non-comp</i>	(ksi)	5.46	8.90	5.84	9.67	5.79	9.45
<i>f<sub>s</sub> ϕ (comp)</i>	(ksi)	1.14	2.17	1.23	2.37	1.22	2.30
<i>f<sub>s</sub> ϕ<sub>3</sub> [M<sub>ϕ</sub> + M<sub>I</sub>]</i>	(ksi)	14.82	14.26	15.48	15.59	15.68	14.75
<i>f<sub>s</sub> (Overload)</i>	(ksi)	21.42	25.34	22.55	27.63	22.69	26.50
<i>f<sub>s</sub> (Total)</i>	(ksi)	--	--	--	--	--	--
<i>VR</i>	(k)	56.1	--	59.3	--	59.1	55.9

INTERIOR GIRDER REACTION TABLE					
	Pier 2	Pier 3	Pier 4	Pier 5	W. Abut.
<i>R<sub>ϕ</sub></i>	(k)	24.87	89.19	92.19	91.97
<i>R<sub>ϕ</sub></i>	(k)	39.7	50.7	52.9	51.5
<i>R<sub>I</sub></i>	(k)	10.4	12.6	12.4	12.7
<i>R<sub>Total</sub></i>	(k)	74.94	152.5	157.48	156.16

\* Compact section  
 \*\* Braced non-compact and partially braced section

*I<sub>s</sub>, S<sub>s</sub>*: Non-composite moment of inertia and section modulus of the steel section used for computing *f<sub>s</sub>*(Total and Overload) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).  
*I<sub>c</sub>(n), S<sub>c</sub>(n)*: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f<sub>s</sub>*(Total and Overload) due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).  
*I<sub>c</sub>(3n), S<sub>c</sub>(3n)*: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f<sub>s</sub>*(Total and Overload) due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).  
*Z*: Plastic Section Modulus of the steel section in non-composite areas (in.<sup>3</sup>).  
*ϕ*: Un-factored non-composite dead load (kips/ft.).  
*M<sub>ϕ</sub>*: Un-factored moment due to non-composite dead load (kip-ft.).  
*s<sub>ϕ</sub>*: Un-factored long-term composite (superimposed) dead load (kips/ft.).  
*M<sub>sϕ</sub>*: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).  
*M<sub>ϕ</sub>*: Un-factored live load moment (kip-ft.).  
*M<sub>I</sub>*: Un-factored moment due to impact (kip-ft.).  
*M<sub>a</sub>*: Factored design moment (kip-ft.).  
 $1.3 [M_{\phi} + M_{s\phi} + \frac{5}{3} (M_{\phi} + M_I)]$   
*M<sub>u</sub>*: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).  
*f<sub>s</sub> (Overload)*: Sum of stresses as computed from the moments below (ksi).  
 $M_{\phi} + M_{s\phi} + \frac{5}{3} (M_{\phi} + M_I)$   
*f<sub>s</sub> (Total)*: Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.3 [M_{\phi} + M_{s\phi} + \frac{5}{3} (M_{\phi} + M_I)]$   
*VR*: Maximum *ϕ* + impact shear range within the composite portion of the span for stud shear connector design (kips).



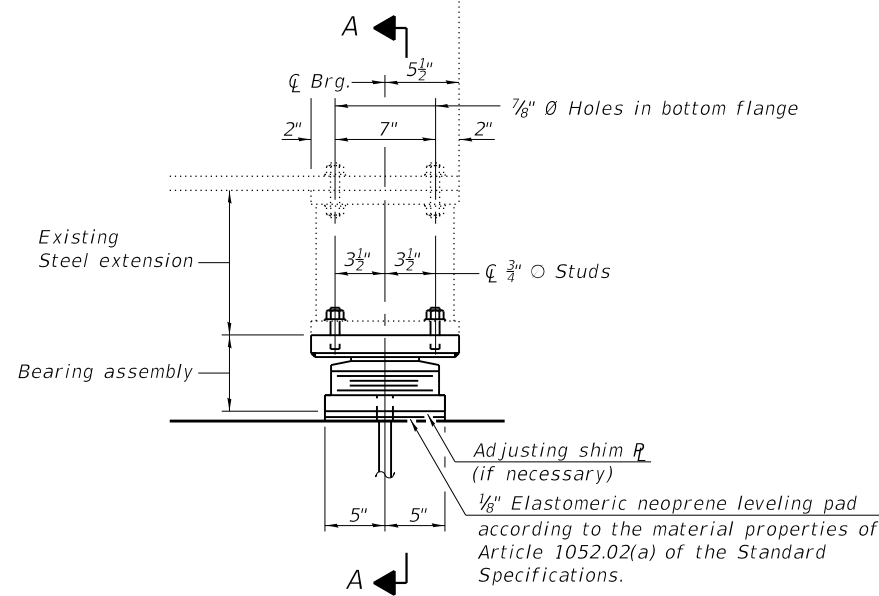
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PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISED -	---

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

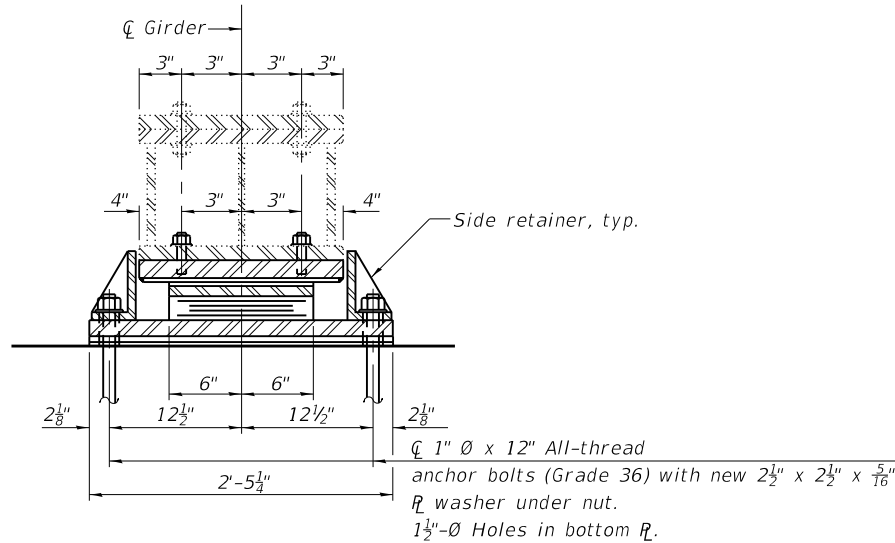
FRAMING PLAN AND DETAILS - UNIT 2  
 STRUCTURE NO. 046-0089

SHEET 18 OF 21 SHEETS

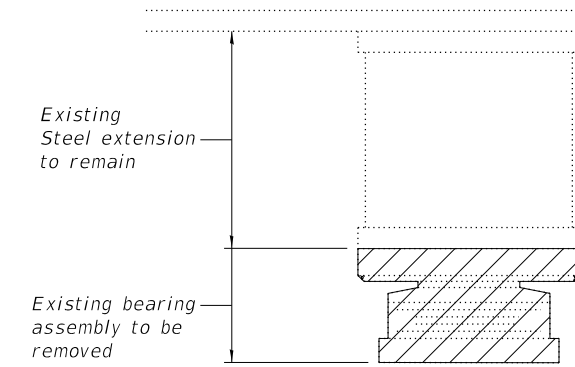
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	219
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



ELEVATION AT PIER 2 - WEST BEARING



SECTION A-A



EXISTING BEARING REMOVAL DETAIL

TYPE II ELASTOMERIC EXP. BRG.

It is anticipated that there will be a conflict between the bottom plates of the new bearings and the existing concrete steps on the east side of Pier 2. The contractor shall remove the conflicting concrete in accordance with Article 501.05. This work will not be paid for separately but shall be considered included in the cost of ELASTOMERIC BEARING ASSEMBLY TYPE II.

Minimum jack capacity required 6 ton

The Contractor shall submit for approval by the Engineer, plans for jacking existing beams and removing bearings prior to commencing any related work. See Special Provisions.

BEARING REMOVAL SEQUENCE

1. After deck has been removed jack existing beams
2. Remove bolts connecting steel extension to bottom flange then remove and save steel extension for re-use
3. Remove nuts at side retainer and remove bottom plate
4. Replace bearings prior to pouring new deck

Notes:

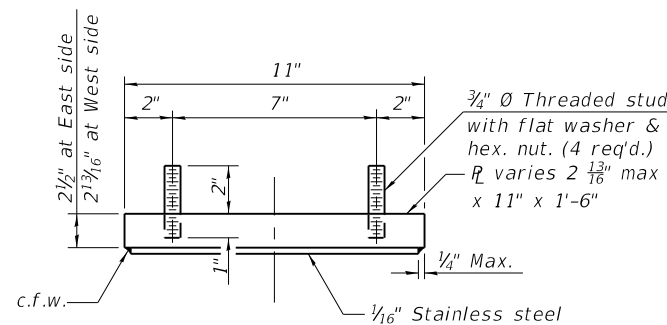
Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II. The 1/8 inch PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8 inch PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

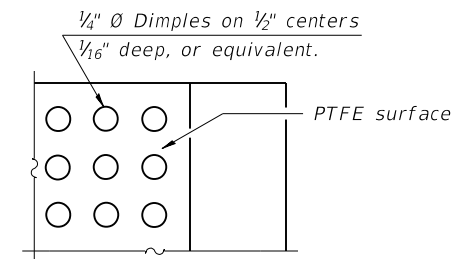
Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	5
Jack and Removing Existing Bearings	Each	5
Anchor Bolts 1"	Each	10

REACTION TABLE  
WEST BEARING PIER 2

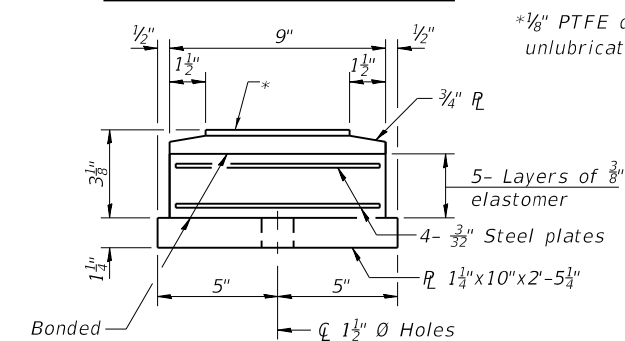
Beam Service Dead Load Without Concrete	5.1 kip
---	---------



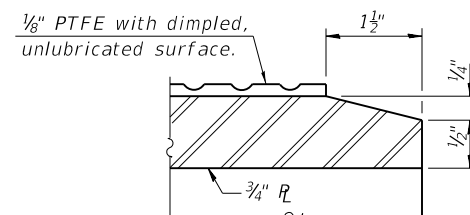
TOP BEARING ASSEMBLY



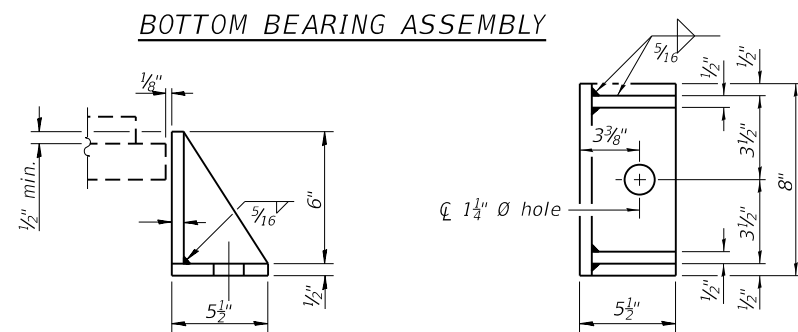
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

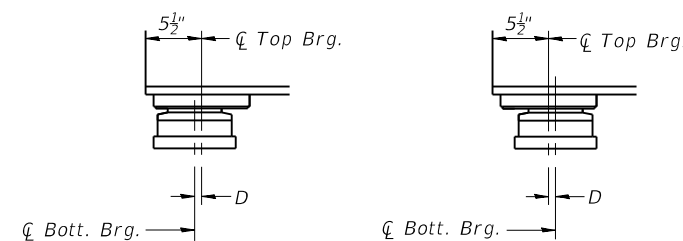


SECTION THRU PTFE



SIDE RETAINER

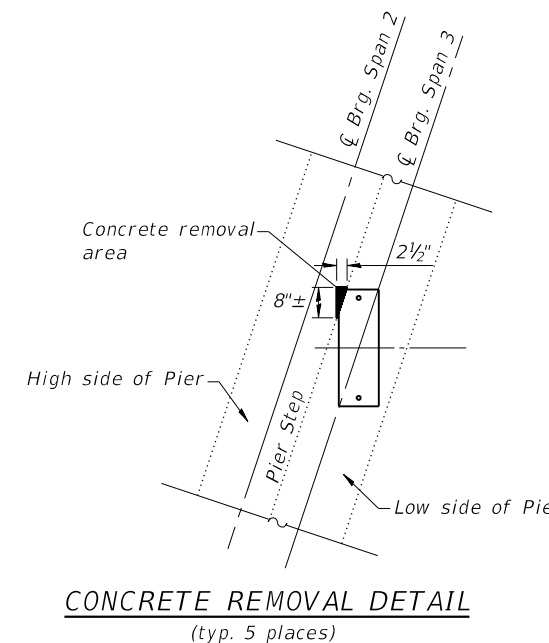
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50°F.  
D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

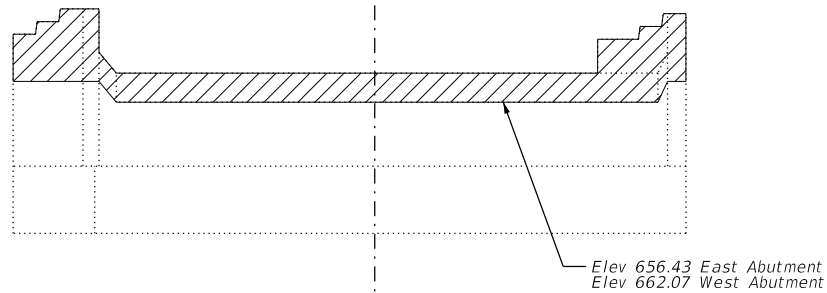
EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

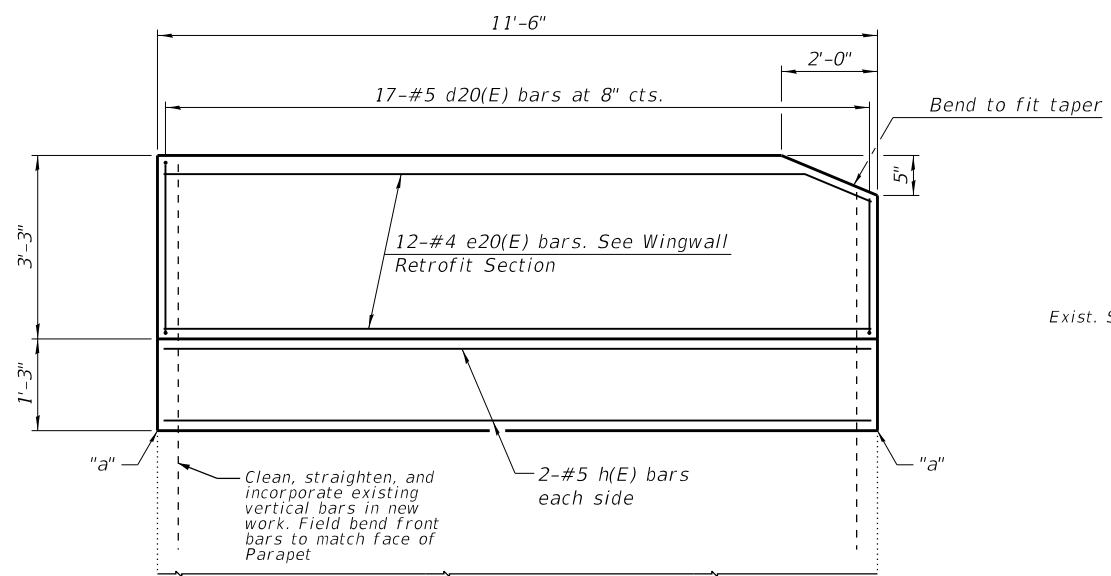


CONCRETE REMOVAL DETAIL  
(typ. 5 places)

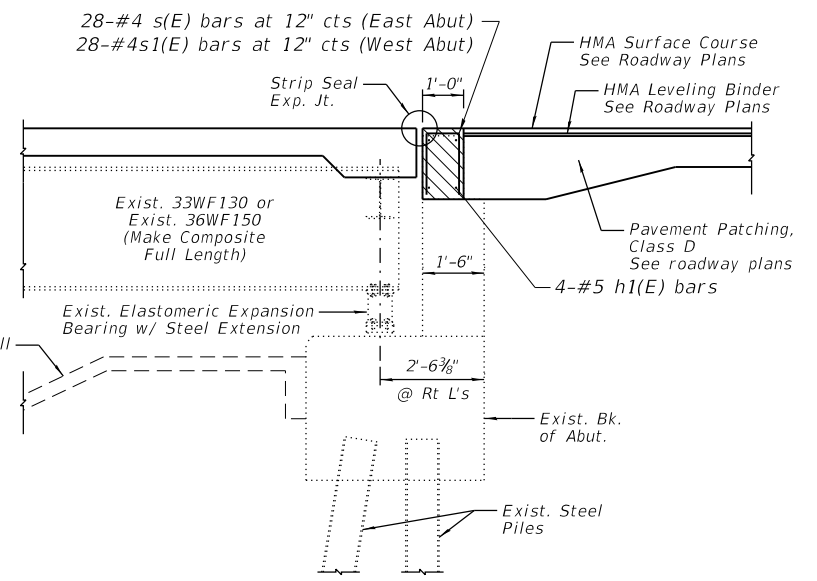
Concrete Removal  
Existing vertical reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.



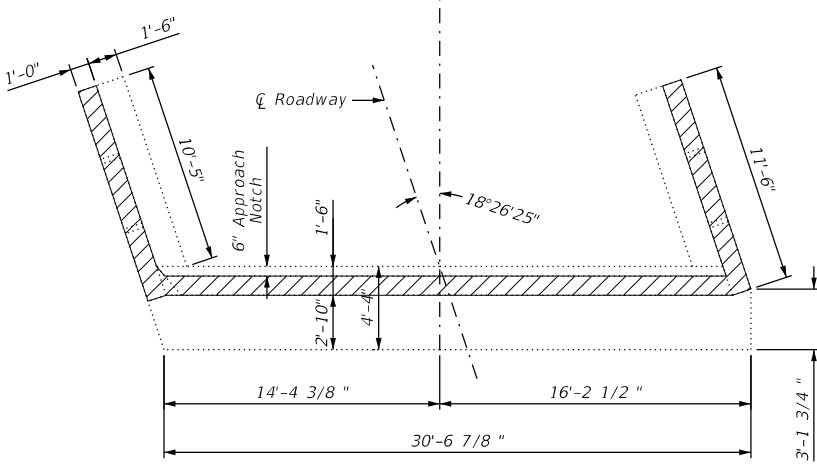
ELEVATION



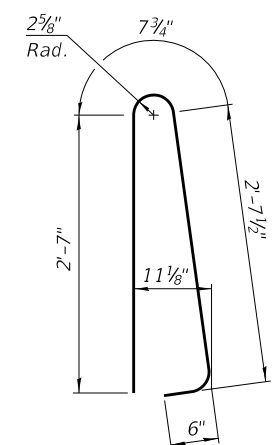
WINGWALL INSIDE ELEVATION



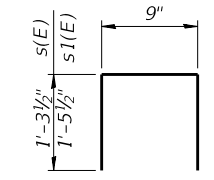
SECTION THRU ABUTMENT  
(Horizontal dimensions @ Rt. L's)



TOP VIEW



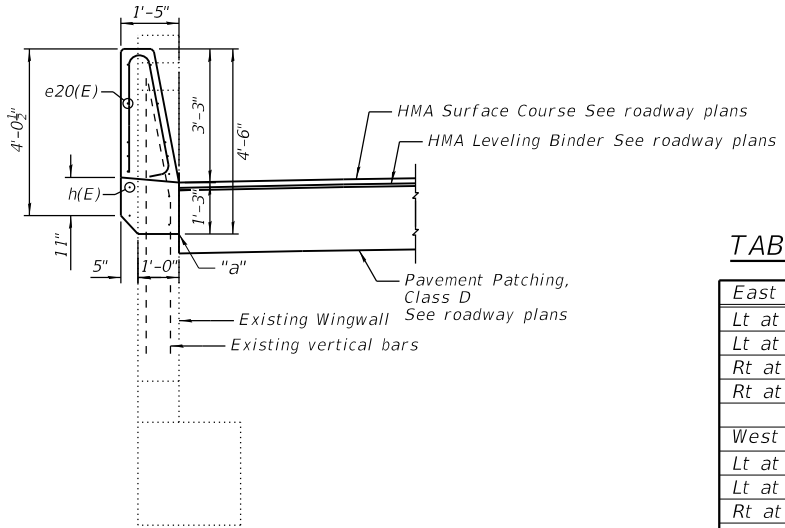
BAR d20(E)



BAR s(E) & s1(E)

BILL OF MATERIAL  
TWO ABUTMENTS

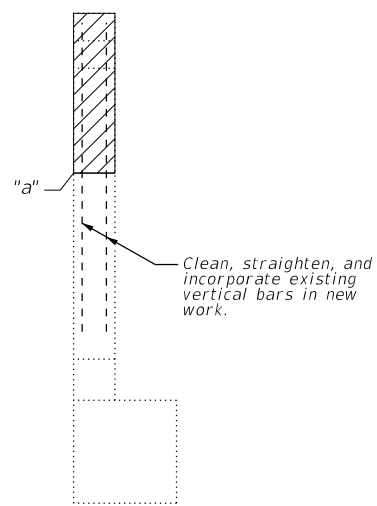
Bar	No.	Size	Length	Shape	
d20(E)	68	#5	6'-5"	⌒	
e20(E)	48	#4	11'-3"	—	
h(E)	16	#5	11'-3"	—	
h1(E)	8	#5	29'-3"	—	
s(E)	28	#4	3'-4"	⌊	
s1(E)	28	#4	3'-8"	⌊	
Structure Excavation				Cu. Yd.	11.7
Concrete Superstructures				Cu. Yd.	13.0
Reinforcement Bars, Epoxy Coated				Pound	1380
Concrete Removal				Cu. Yd.	10.1



WINGWALL RETROFIT SECTION

TABLE OF ELEVATION "a"

East Abutment	Elevation
Lt at end of deck	657.05
Lt at end of wing wall	656.46
Rt at end of deck	656.57
Rt at end of wing wall	655.97
West Abutment	
Lt at end of deck	662.48
Lt at end of wing wall	662.19
Rt at end of deck	662.71
Rt at end of wing wall	662.43



WINGWALL CONCRETE REMOVAL

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		CHECKED -	NV	REVISED -	---
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PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISED -	---

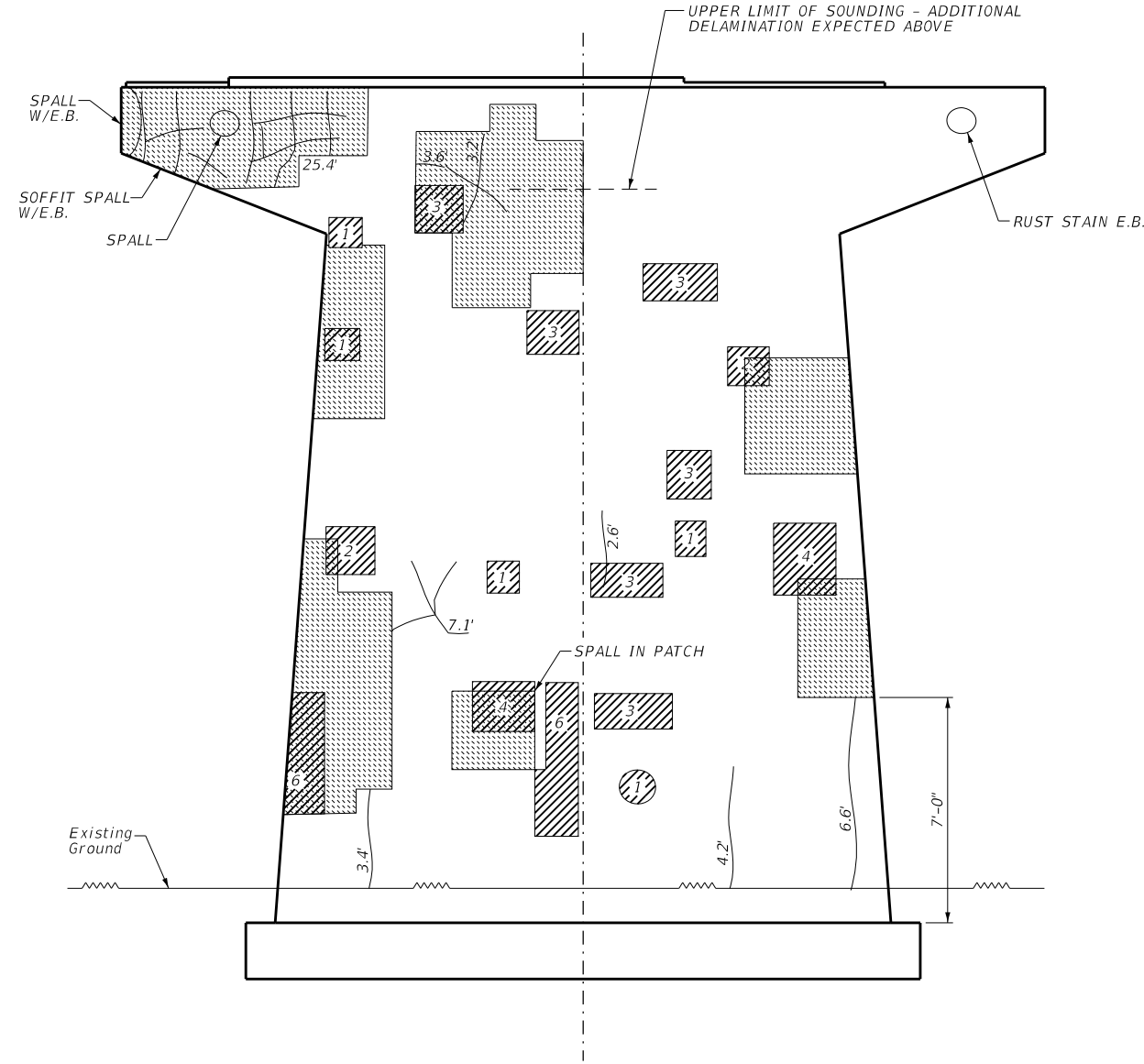
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT PLAN & DETAILS  
STRUCTURE NO. 046-0089

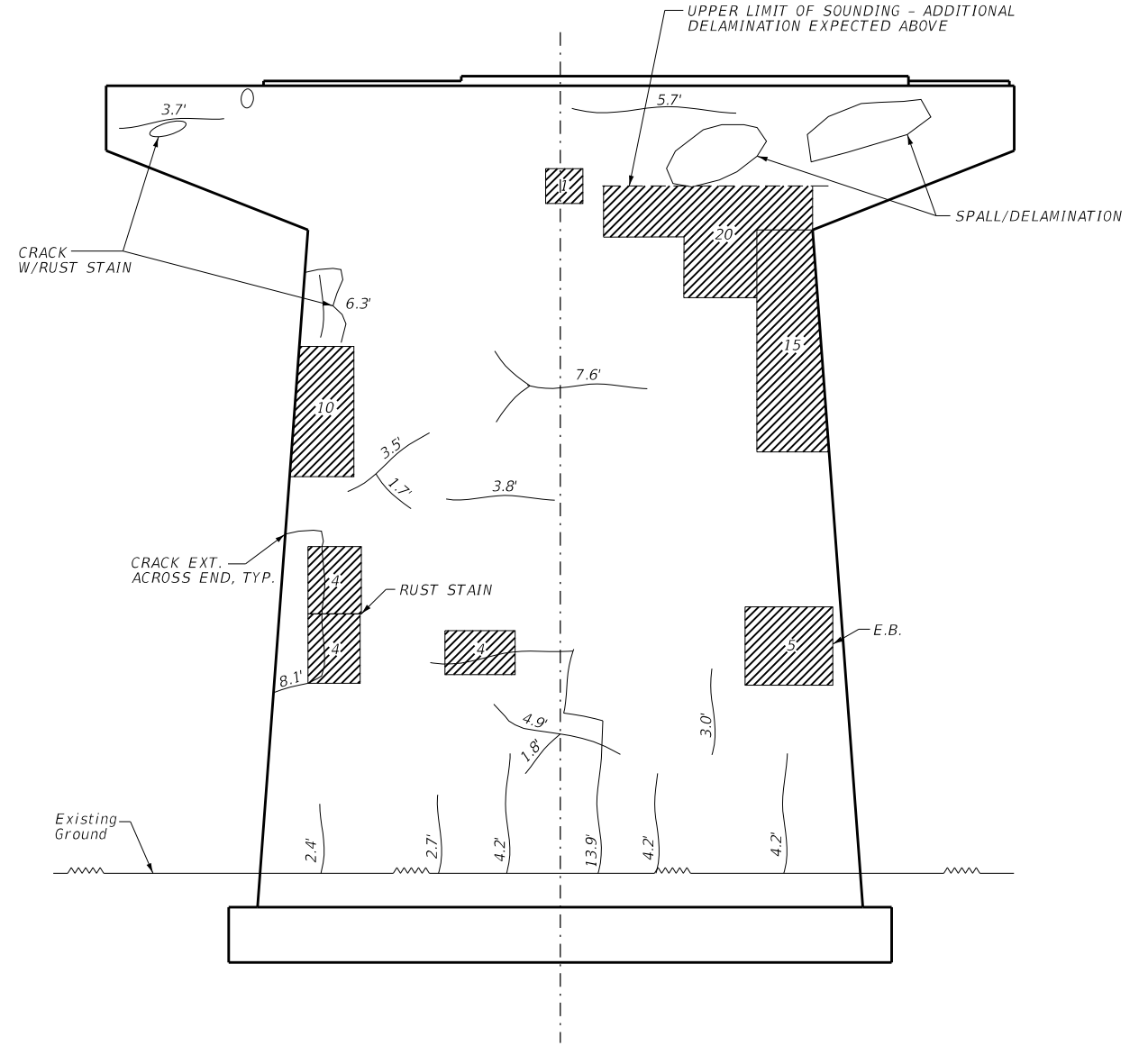
SHEET 20 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	221
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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 1/25/2021 11:45:34 AM



**PIER 2  
 W. ELEVATION**



**PIER 2  
 E. ELEVATION**

- AREA AFFECTED (SF) Structural Repair of Concrete (Depth Equal to or less than 5 inches)
- EXISTING PATCH
- E.B.** EXPOSED BAR WITHIN SPALL
- Epoxy Crack Injection

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Epoxy Crack Injection	Foot	140
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Yd.	110



USER NAME =	CHAMLIN	DESIGNED -	JKC	REVISED -	___
		CHECKED -	NV	REVISED -	___
PLOT SCALE =		DRAWN -	NV	REVISED -	___
PLOT DATE =	1/25/2021	CHECKED -	JKC	REVISED -	___

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER REPAIR DETAILS  
 STRUCTURE NO. 046-0089**

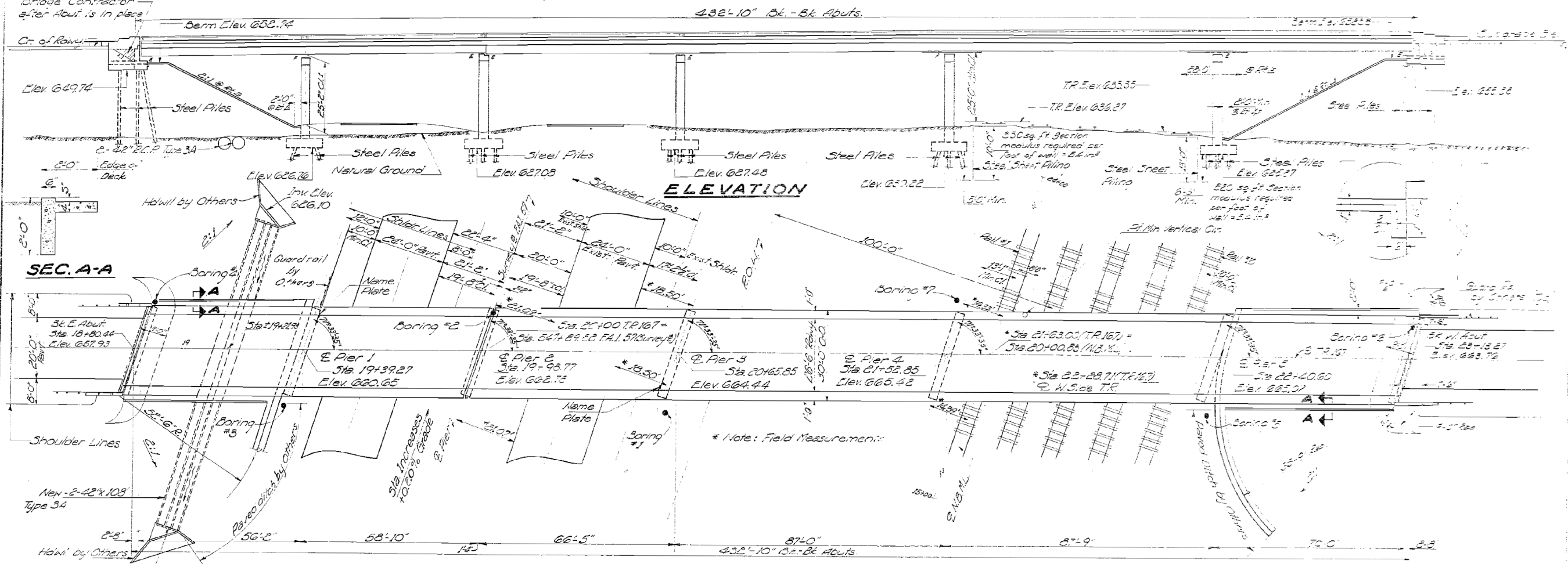
SHEET 21 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	222
CONTRACT NO. 66F09				
		ILLINOIS	FED. AID PROJECT	

S.M. #10 Spike & 3/4" Teleph. pole 90' right  
Sta. 548+75 Elev. 631.09  
Existing Structure: Culvert twin 36" R.C.P @ Sta 19+15 ±  
on T.R. to be removed by Contractor. Removal shall be considered as incidental to the item  
PIPE CULVERTS TYPE 3A 42"; Salvage value shall be reflected in the unit  
price bid.

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT	46-3	KANKAKEE ST	149-REPL
DATE	APR 10 1964		



SEC. A-A

PLAN

**TOTAL BILL OF MATERIAL**

ITEM	QUANTITY	UNIT	TOTAL
Class A Conc. for Structures	2,442	cu yd	2442
Class B Concrete	3,960	cu yd	3960
Protective Coat	5,100	sq yd	5100
Structural Steel	155	tons	376.50
Aluminum material	1,000	lb	250
Pipe Culverts (Type 3A, 42")	1,000	lin ft	315
Reinforcement Bars	155	tons	376.50
Steel Piles 105-42	1,000	lin ft	5,400
Test Piles Steel 125-42	50	lin ft	270
Steel Sheet Piling	50	lin ft	870
Name Plates	15	ea	15
Slope Wall 12" Conc.	50	sq yd	510
Bridge Seal Sealant	4.5	lb	1

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end post must be absolutely free of chert, flint, limonite, lignite and soft sandstone.  
The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications.  
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh #4 wires weighing 58# per 100 sq. ft.  
All reinforcement bars shall be lapped a minimum of 20 diameters unless otherwise shown.  
Rivets 3/8" open holes 1 1/2" unless otherwise noted.  
Anchor bolts shall be set before riveting diaphragms over supports.  
Except as otherwise provided all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications and Special Provisions.  
The Contractor shall drive two (2) steel 105-42 test piles in permanent location, one at the East Abut. and one at Pier #3 as directed by the Engineer before ordering the remainder of the piles.  
All structural steel shall comply with the Specification for Structural Steel A.S.T.M. designation A-36.  
Permanent forms will not be permitted in forming the concrete floor.  
Excavation for portion of structure in the embankment shall not be classified.  
FIELD WELDING OF CONSTRUCTION JOINTS TO THE PITCH FLANGES OR FOR A DISTANCE OF 1/2 OF THE SPAN EACH WAY FROM THE SUPPORTS ON THE TOP FLANGES OF BEAMS OR AIRCRAFT WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

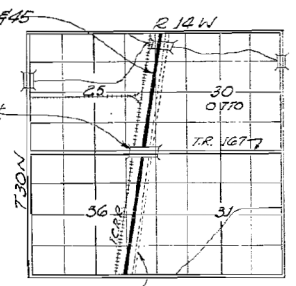
DESIGN STRESSES

$f_c = 14,000$  psi. Super & Sub.  
 $f_s = 20,000$  psi. Reinf.  
 $f_s = 20,000$  psi. Struct. A-36  
 $n = 10$   
 $v_c = 75$  p.s.i. Figs.  
 $f_c = 12,000$  p.s.i. Deck Slab  
LOADING HS15-44

**GENERAL PLAN & ELEVATION**  
**PROJ. I-57-6 (46)**  
**TR. 167 OVER FAI. 57 & I.C.R.R.**  
**FAI. RT. 57 SEC. 46-4 HWB**  
**KANKAKEE COUNTY**  
**STA. 547+89.62**

STA. 547+89.62  
BUILT 196 BY  
STATE OF ILLINOIS  
FAI. RT. 57 SEC. 46-4 HWB  
FA. PROJ. I-57-6 (46)  
LOADING HS15

**NAME PLATE**  
(See Std. 2113-1)



PROPOSED LANE  
FAI. 57

**U.C. DATA**  
**T.R. 167**

DESIGNED	K. L. Tuppe
CHECKED	[Signature]
DRAWN	L. A. Baribaza
CHECKED	[Signature]

EXAMINED	W. Baumann
PASSED	[Signature]
APPROVED	[Signature]

REV. 4-5-65 Added to notation about existing structures. Revised approx. Steel Sheet Piling design from 50 to 870 sq. ft. Revised design of the culverts from Type 3A to Type 3B. Revised design of the abutment. Quantity of Class B Conc., Structural Steel & Reinforcement Bars. Deleted quantities of Embankment.

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PLOT DATE =	12/4/2020	DRAWN -	REVISOR -
		CHECKED -	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46(34)RS-4 & I-1	KANKAKEE	278	223
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

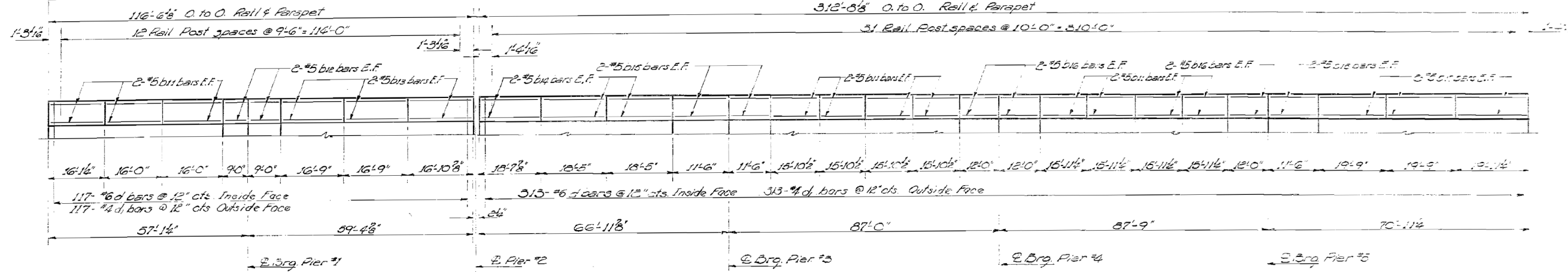




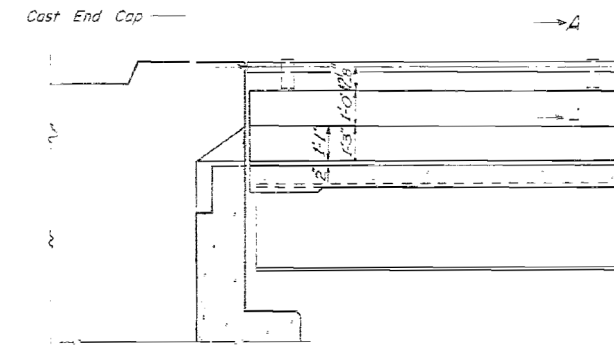
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJ. 46 KANKAKEE RD  
4895

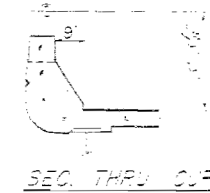
429-4½" End to End Rail & Parapet



**ELEVATION**



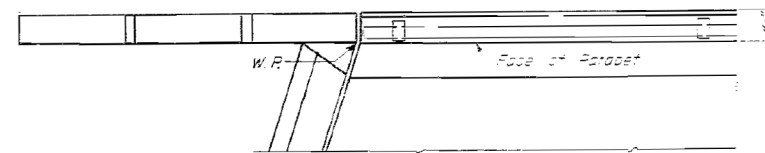
**ELEVATION - END POST**



**SEC. THRU CAPS**

**BILL OF MATERIAL**

Item	Qty	Unit
Aluminum Handrail	100	LF
Cast End Cap	2	PCS



**PLAN - END POST**

All dimensions shown in Elev. measured along THIS LINE

**ALUMINUM HANDRAIL  
FA.I. RT. 57 SEC. 46 4HW  
KANKAKEE COUNTY  
STA. 547+52.62**

DESIGNED	K. L. Figgie	APPROVED	[Signature]
CHECKED	[Signature]	EXAMINED	W. B. Braumann
DRAWN	W. A. Sausaman	PASSED	[Signature]
CHECKED	[Signature]	APPROVED	[Signature]

R-10 Drawn 2-16-60 Rev. 11-2-62

Rev. 3/7/67 Removed Details for Aluminum Handrail (See SH. 3A)

Rev. 2-11-67 Chgd. parapet rail; caps block. - DEB

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PLOT DATE =	12/4/2020	DRAWN -	[Signature]	REVISED -	
		CHECKED -	[Signature]	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY**

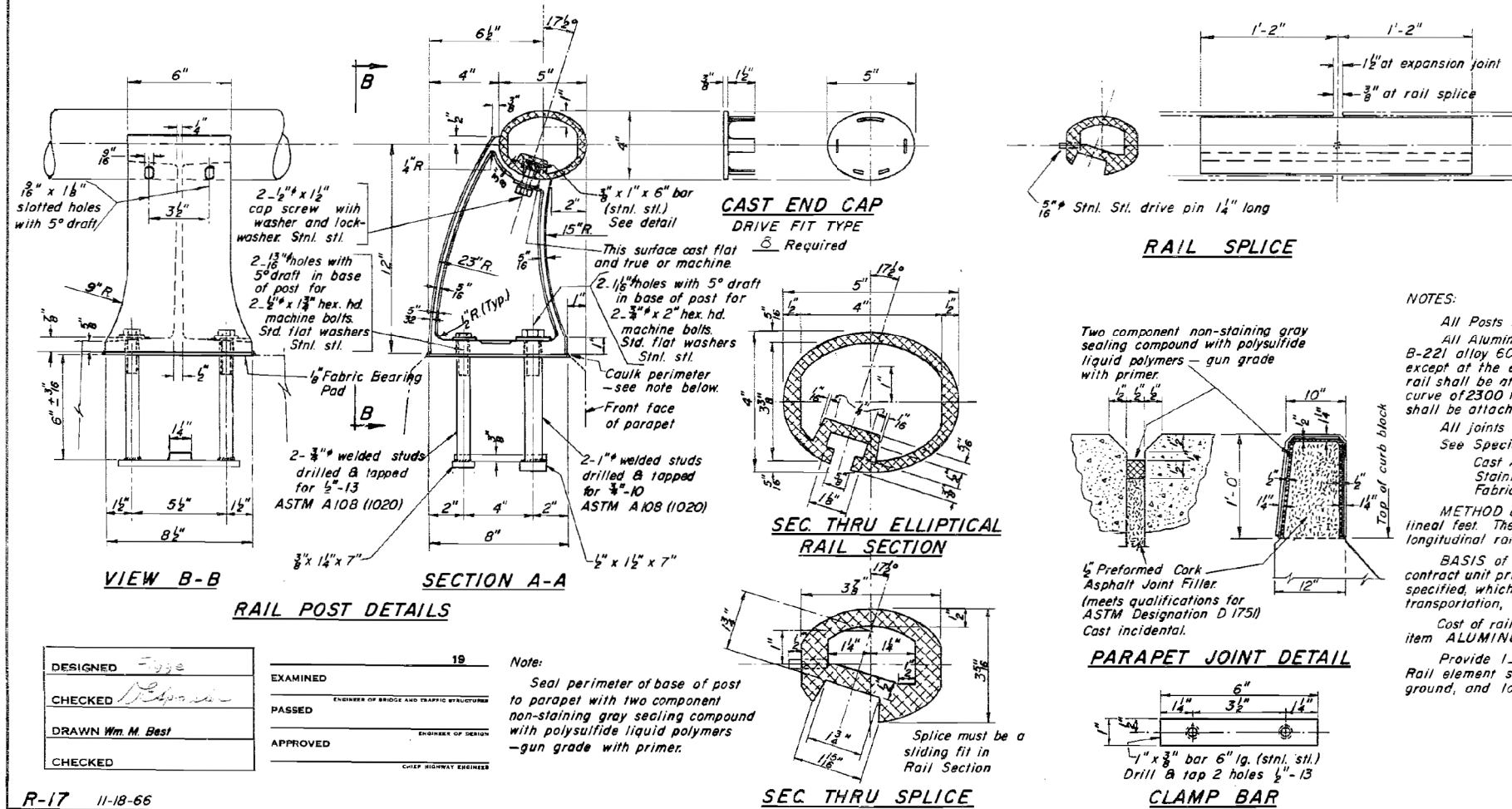
SHEET OF SHEETS

FA.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46(3,4)RS-4 & I-1	KANKAKEE	278	225
CONTRACT NO. 66F09				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	POST NO.	SECTION	TOTAL SHEETS	SHEET NO.
46	46-4-15	46-4-15	278	226
SHEETS				



**NOTES:**  
 All Posts shall be normal to parapet.  
 All Aluminum Alloy Extruded Rail shall conform to specification B-221 alloy 6061-T6 and shall be supplied in modular lengths of 30 feet except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.  
 All joints in rail shall be spliced per detail.  
 See Special Provisions for following Material Specifications:  
 Cast Aluminum Alloy Bridge Post—Alloy A344-T4  
 Stainless Steel Bars, Cap Screws, Washers and Lockwashers  
 Fabric Bearing Pad.  
**METHOD of MEASUREMENT:** Aluminum handrail shall be measured lineal feet. The length paid for shall be the over all length along the longitudinal railing member thru all posts and gaps.  
**BASIS of PAYMENT:** Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.  
 Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.  
 Provide 1-1/8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade—high spots shall be ground, and low spots shimmed.

DESIGNED	19
CHECKED	EXAMINED
DRAWN Wm. M. Best	PASSED
CHECKED	APPROVED

**Note:**  
 Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers—gun grade with primer.

DETAILS  
 RAIL POST SEC. 46-4-15  
 KANKAKEE COUNTY  
 STA. 547-89.62

R-17 11-18-66

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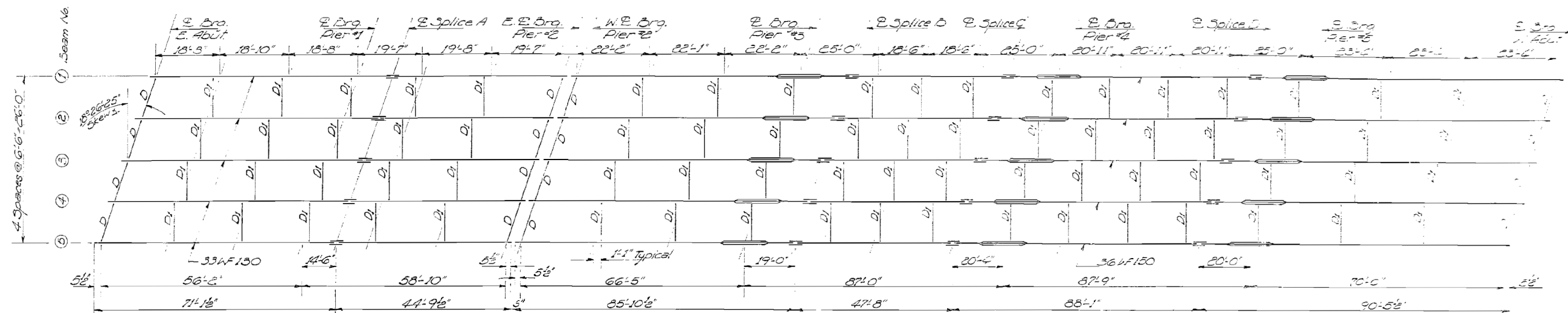
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

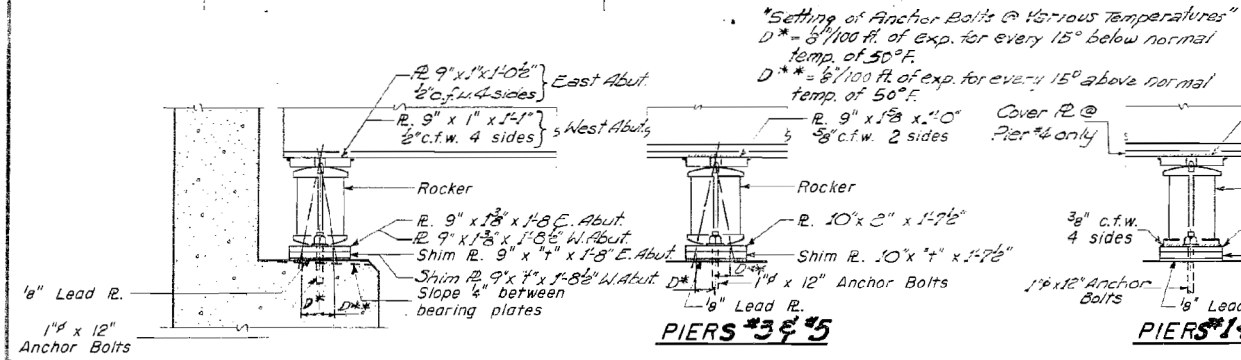
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	226
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

NO. 46  
SEC. 46-4  
KANKAKEE CO.  
STA 547+89.82



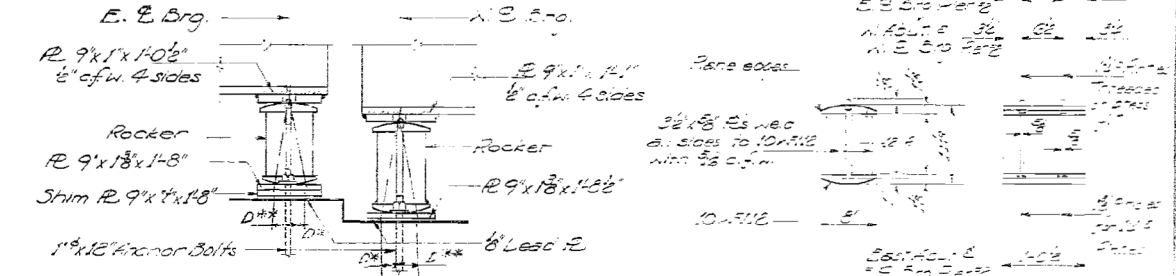
**FRAMING PLAN**



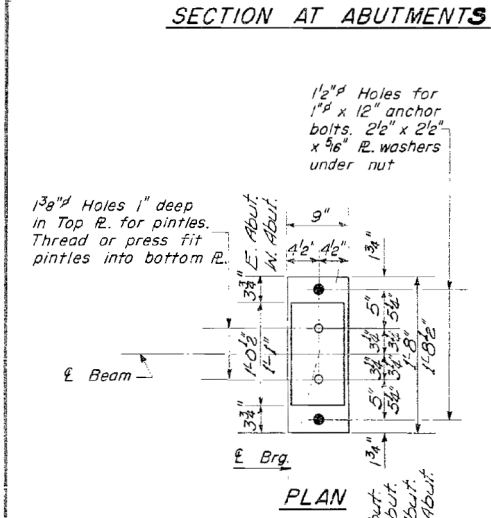
**SECTION AT ABUTMENTS**

**PIERS #3 & #5**

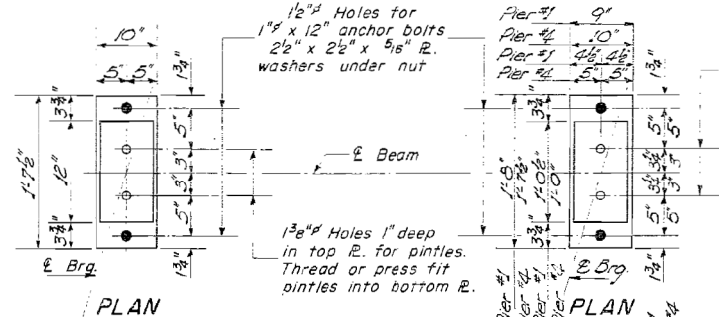
**PIERS #1 & #4**



**DETAIL OF ROCKER AT ABUTTS & PIER #2**

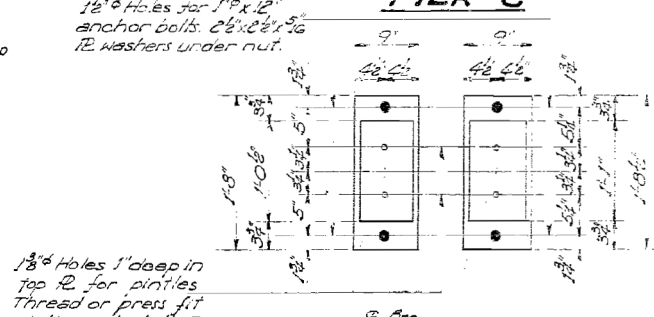


**PLAN**



**PLAN**

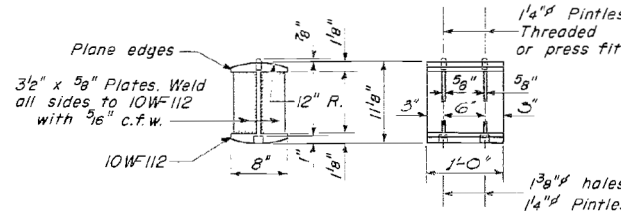
**PLAN**



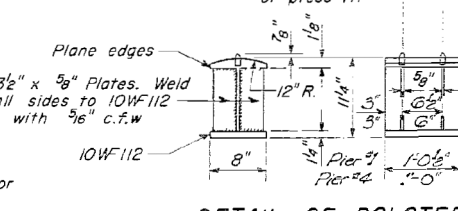
**PLAN**

DESIGNED	K. L. Figg	EXAMINED	W. B. Baumann
CHECKED	K. L. F.	PASSED	
DRAWN	W. A. Sausaman Jr.	APPROVED	
CHECKED	J. L.		

APRIL 10 1964



**DETAIL OF ROCKER AT PIERS #3 & #5**



**DETAIL OF BOLSTER AT PIERS #1 & #4**

Note: Anchor bolts at Abutts & Piers #3 & #5 to be drilled into drilled holes after beams are in place. Anchor bolts @ Piers #1 & #4 to be drilled into drilled holes after beams are in place or may be built into masonry.

**ELEVATION TOP OF WF**

Loc.	1	2	3	4	5
E. Brg. 10'0"	657.03	657.28	657.53	657.78	658.03
E. Brg. 5'0"	659.23	659.48	659.73	659.98	660.23
E. Brg. 0'0"	660.23	660.48	660.73	660.98	661.23
E. Brg. 5'0"	662.13	662.38	662.63	662.88	663.13
E. Brg. 10'0"	662.03	662.28	662.53	662.78	663.03
E. Brg. 15'0"	663.33	663.58	663.83	664.08	664.33
E. Splice	664.03	664.28	664.53	664.78	665.03
E. Brg. 20'0"	664.83	665.08	665.33	665.58	665.83
E. Brg. 25'0"	664.53	664.78	665.03	665.28	665.53
E. Brg. 30'0"	664.43	664.68	664.93	665.18	665.43
E. Brg. 35'0"	664.43	664.68	664.93	665.18	665.43
E. Brg. 40'0"	663.43	663.68	663.93	664.18	664.43
E. Brg. 45'0"	663.03	663.28	663.53	663.78	664.03

**STRUCTURAL STEEL**  
FAI. RT. 57 SEC. 46-4 HVB  
KANKAKEE COUNTY  
STA 547+89.82

I-2-C 7-2-62 Rev. 11-9-62  
Rev. 2/1/67 Added Note

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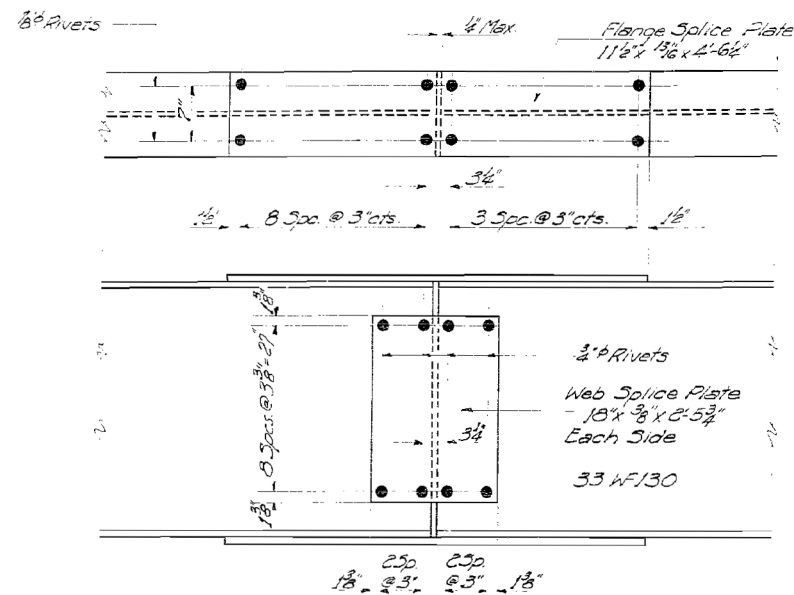


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PLOT SCALE =	NTS	CHECKED -	REVISOR -
PLOT DATE =	12/4/2020	DRAWN -	REVISOR -
		CHECKED -	REVISOR -

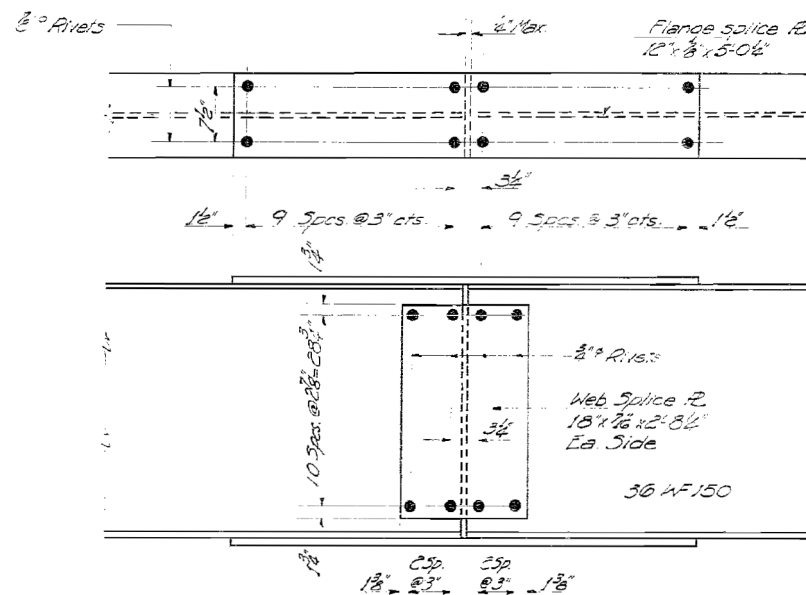
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY  
SHEET OF SHEETS

FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46(3)RS-4 & I-1	KANKAKEE	278	227
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



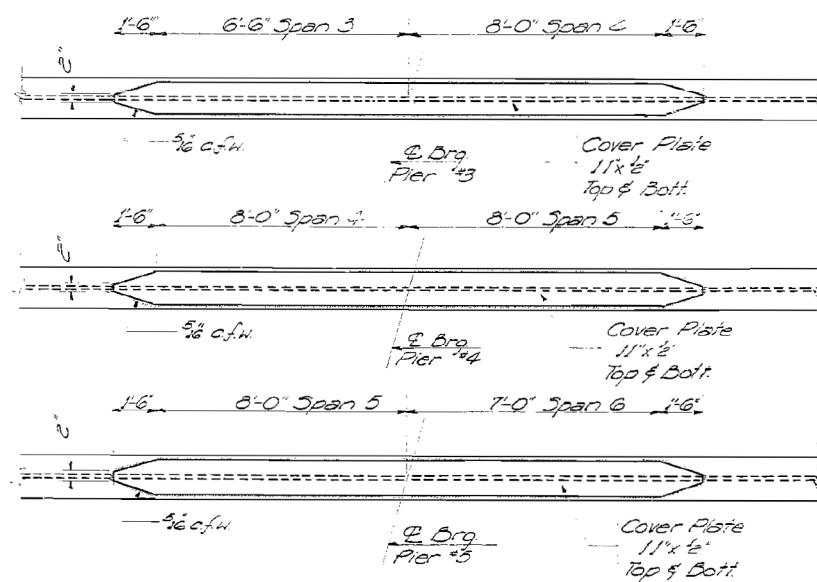
DETAIL OF SPLICE A



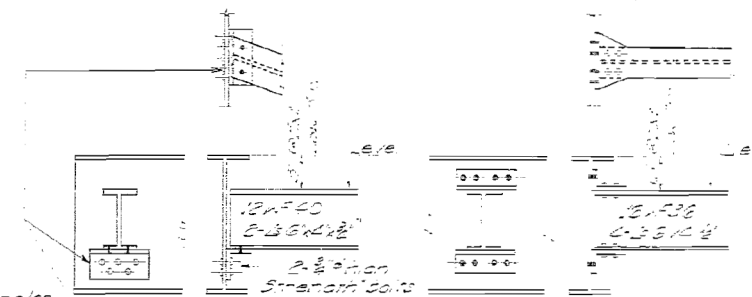
DETAIL OF SPLICES B, C, & D

TABLE OF SHIM PLATE THICKNESS

Location	1	2	3	4	5
3 Bro. Flange	1/2	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0
3 Bro. Flange	3/8	3/8	0	0	0



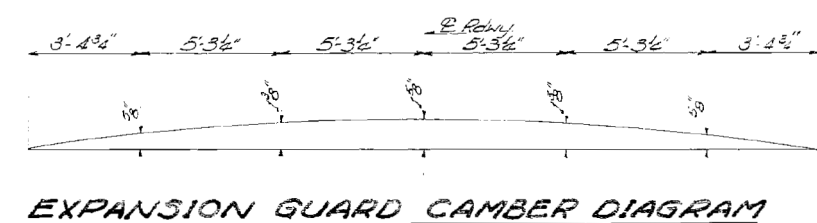
COVER PLATE DETAILS



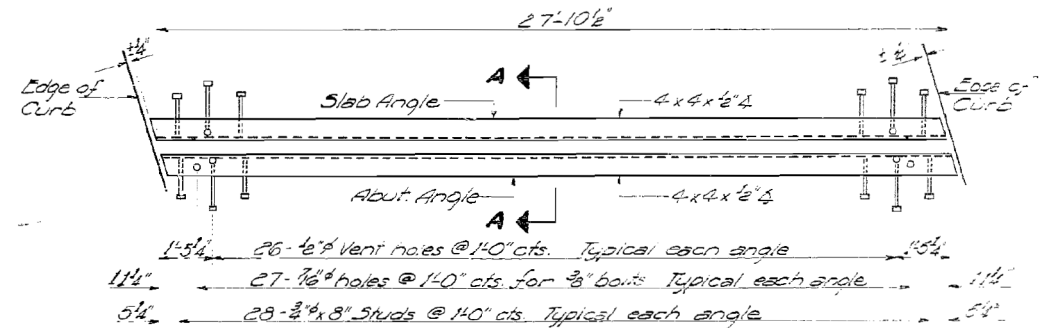
DIAPHRAGM D  
1/2" Required

DIAPHRAGM D1  
1/2" Required

In lieu of shop rivets angles may be attached in the shop with 3/4" high strength bolts or 1/2" a.w.h.

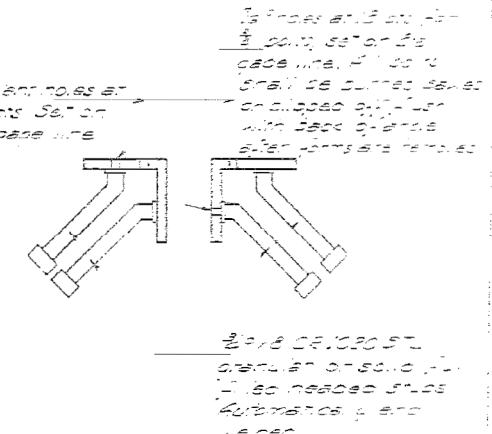


EXPANSION GUARD CAMBER DIAGRAM



EXPANSION GUARD DETAIL AT ABUTMENTS

12 Angles required, Est. weight 1,550 lbs.  
Note: The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.



SECTION A-A

DESIGNED L.H. Fyffe  
CHECKED R. Johnson  
DRAWN L.L. A. Barazz  
CHECKED J.S.L.  
APRIL 10 1964  
EXAMINED W.B. Baumann  
PASSED  
APPROVED  
CHIEF HIGHWAY ENGINEER

STRUCTURAL STEEL  
F.A.I. RT. 57 SEC. 46-4RVB  
KANKAKEE COUNTY  
STA. 547+89.82

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USER NAME = CHAMLIN	DESIGNED -	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

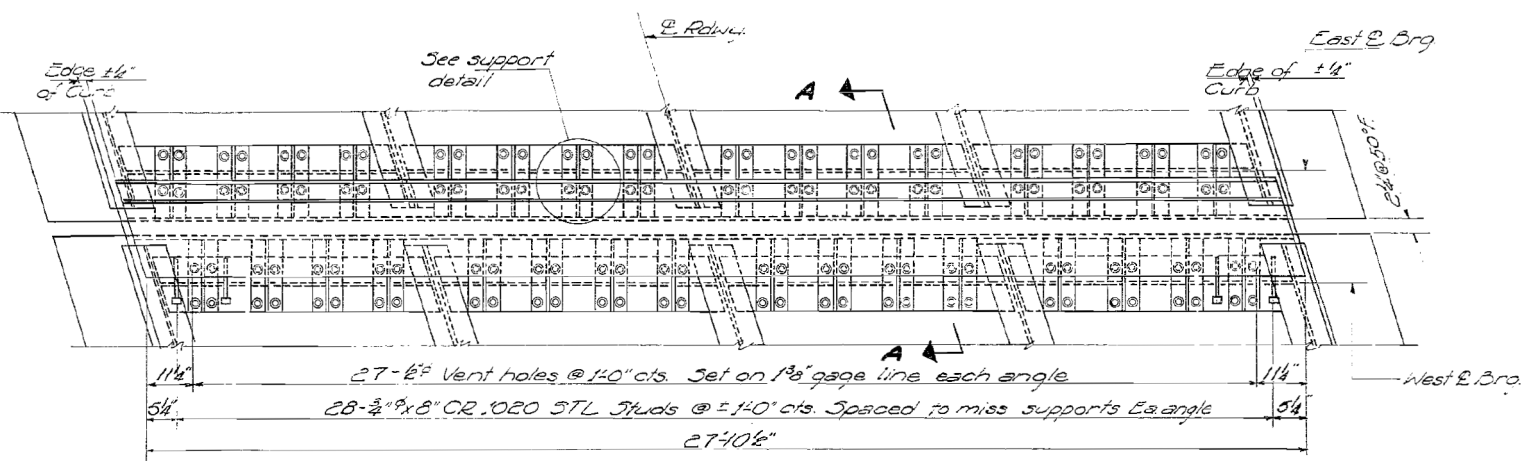
EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	228
CONTRACT NO. 66F09				

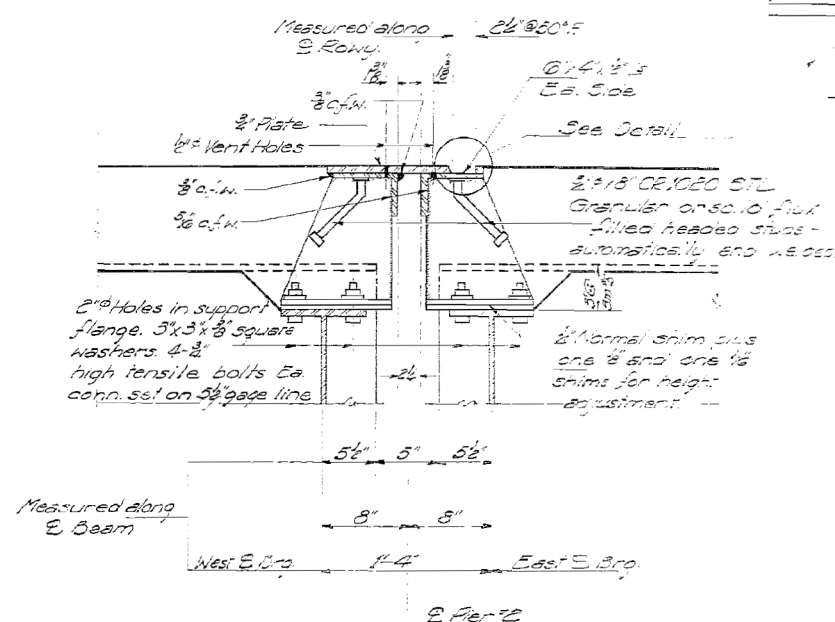
ILLINOIS FED. AID PROJECT

Note: Roadway expansion guards shall be assembled in the shop in proper position with the ends in place and shall be left assembled for shop inspection.

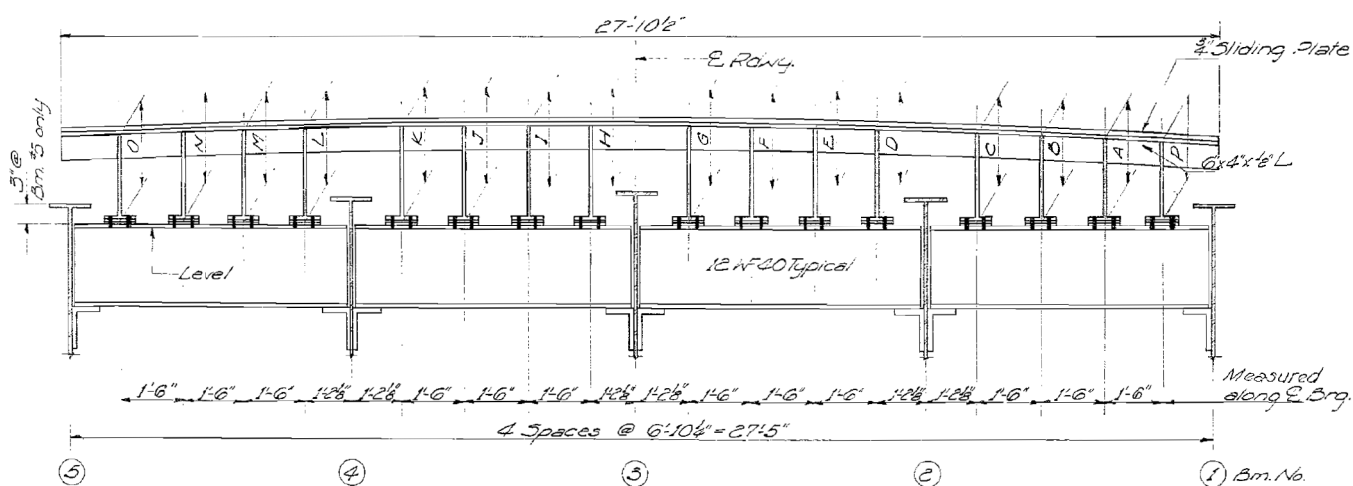
All exposed surfaces of the expansion guard assembly shall receive two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted. All surfaces of the assembly that are to be completely embedded in concrete shall not be painted.  
 Estimated weight of Assembly - 3530 Lbs.



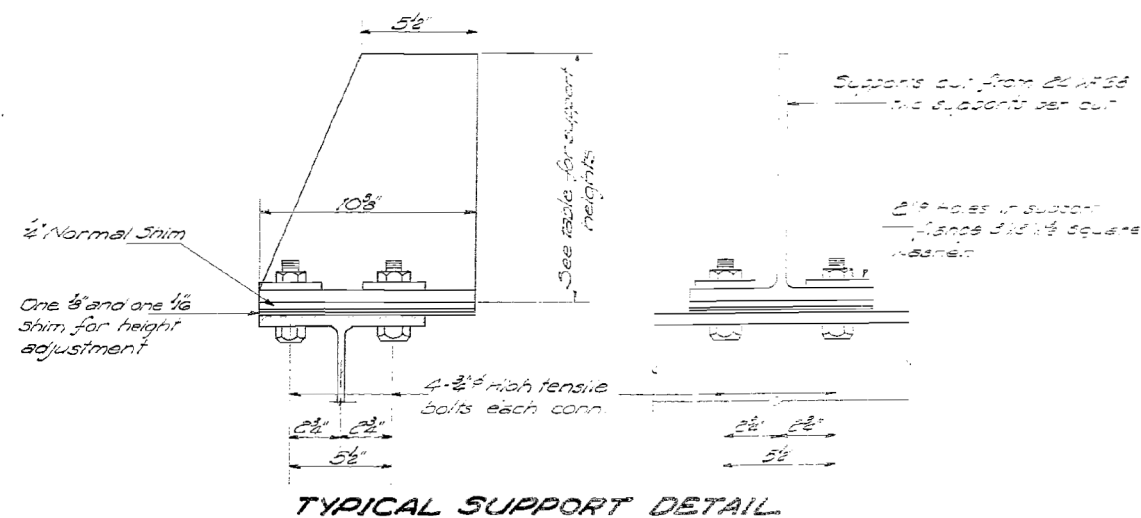
PLAN



SECTION A-A



ELEVATION



TYPICAL SUPPORT DETAIL

TABLE OF SUPPORT HEIGHTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
EE Brg	1'-0 1/16"	1'-0 3/16"	1'-0 3/8"	1'-0 3/8"	1'-0 1/2"	1'-0 7/16"	1'-0 5/8"	1'-0 3/4"	1'-0 3/4"	11 1/8"	11 1/8"	11"	10 7/8"	10 3/8"	9 1/2"	1'-0 1/8"
W.B. Brg	11 3/8"	1'-0"	1'-0 1/4"	1'-0 1/4"	1'-0"	11 1/8"	11 1/8"	11 1/8"	11 1/8"	11 1/8"	10 3/4"	10 3/4"	9 1/2"	9 1/2"	8 3/8"	11 1/4"

DESIGNED K.L. Fyge  
 CHECKED W.E. Spohn  
 DRAWN K.L.F.  
 CHECKED R.L.

APRIL 10 1964  
 EXAMINED W.E. Baumann  
 PASSED  
 APPROVED  
 ENGINEER OF DESIGN  
 CHIEF HIGHWAY ENGINEER

EXPANSION DEVICE AT PIER #2  
 ILL. RT. 57 SEC. 46-4HWB  
 KANKAKEE COUNTY  
 STA. 547+89.82

Rev. 2/1/67 Removed form plate from Sec. A-A. Vent holes relocated.

Rev. 12/2/67 Lengthened Exp. Device, added supports & P.P. Comp. Est. Wt. of Assembly - 3530.

MODEL: Default  
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 CHECKED -  
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 CHECKED -

REVISED -  
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 REVISED -

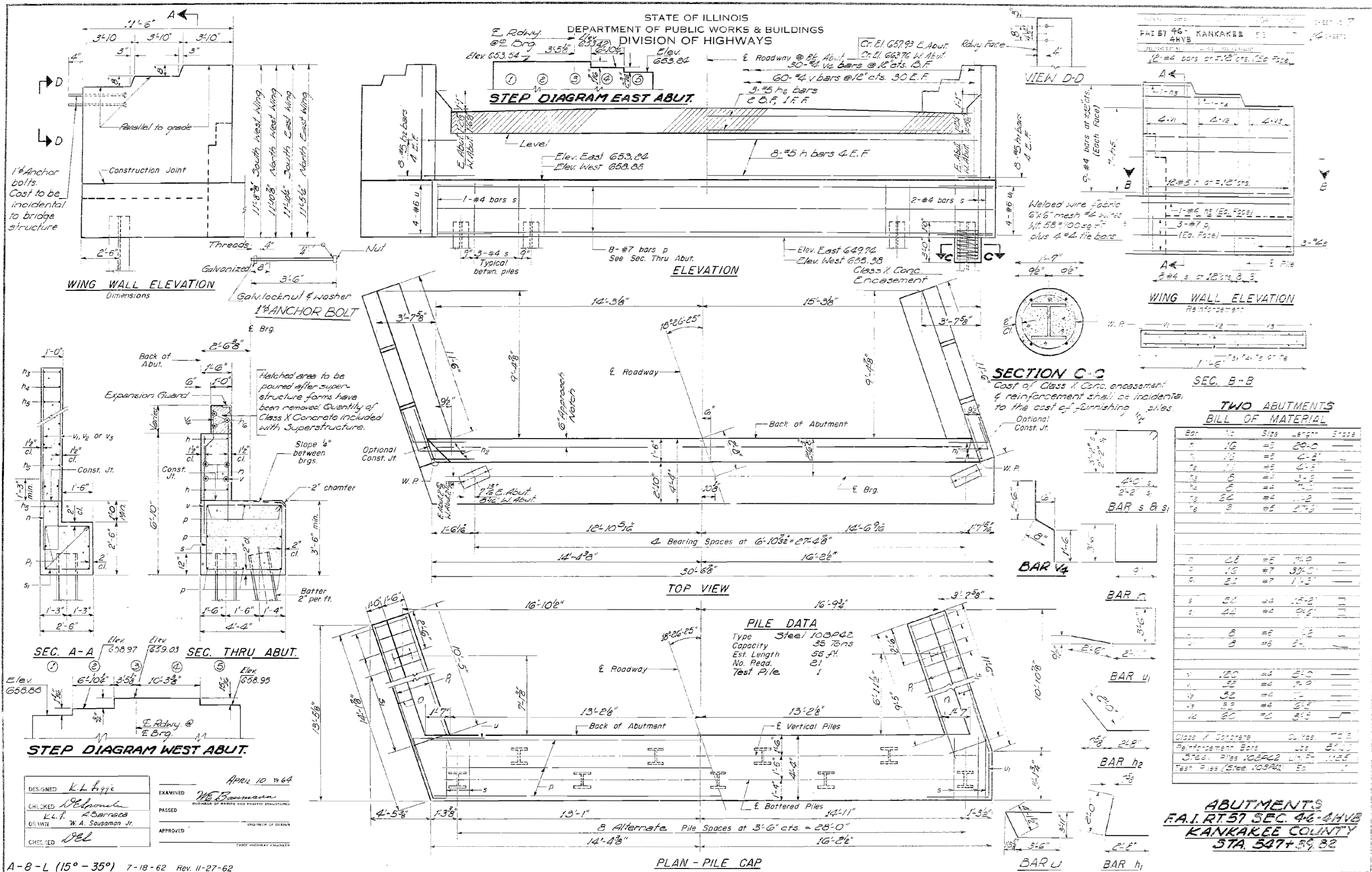
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
 FOR INFORMATION ONLY

SHEET OF SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	229
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F09	

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**TWO ABUTMENTS BILL OF MATERIAL**

Bar	No.	Size	Length	Grade
1	16	#5	28'-0"	
2	16	#5	2'-8"	
3	16	#5	6'-5"	
4	6	#4	3'-5"	
5	6	#4	7'-5"	
6	6	#4	1'-5"	
7	6	#5	2'-5"	
8	8	#5	28'-0"	
9	16	#7	30'-0"	
10	22	#7	1'-5"	
11	54	#4	15'-2"	
12	24	#4	21'-6"	
13	8	#6	1'-8"	
14	8	#6	6'-	
15	120	#4	8'-10"	
16	32	#4	9'-0"	
17	32	#4	7'-	
18	32	#4	6'-5"	
19	60	#5	3'-5"	

Class X Concrete 50,000 psi  
 Reinforcement Bars 60,000 psi  
 3-#8 Piles 108P42 Lbs. 1185  
 Test Piles (Steel 108P42) 100

**ABUTMENTS**  
 F.A.I. RT 57 SEC. 46-41VB  
 KANKAKEE COUNTY  
 STA. 547+59.32

DESIGNED **K.L. Lytle**  
 CHECKED **W. A. Sausaman Jr.**  
 DR. W. W. **W. A. Sausaman Jr.**  
 APRIL 10 1964  
 EXAMINED **W. A. Sausaman Jr.**  
 PASSED  
 APPROVED

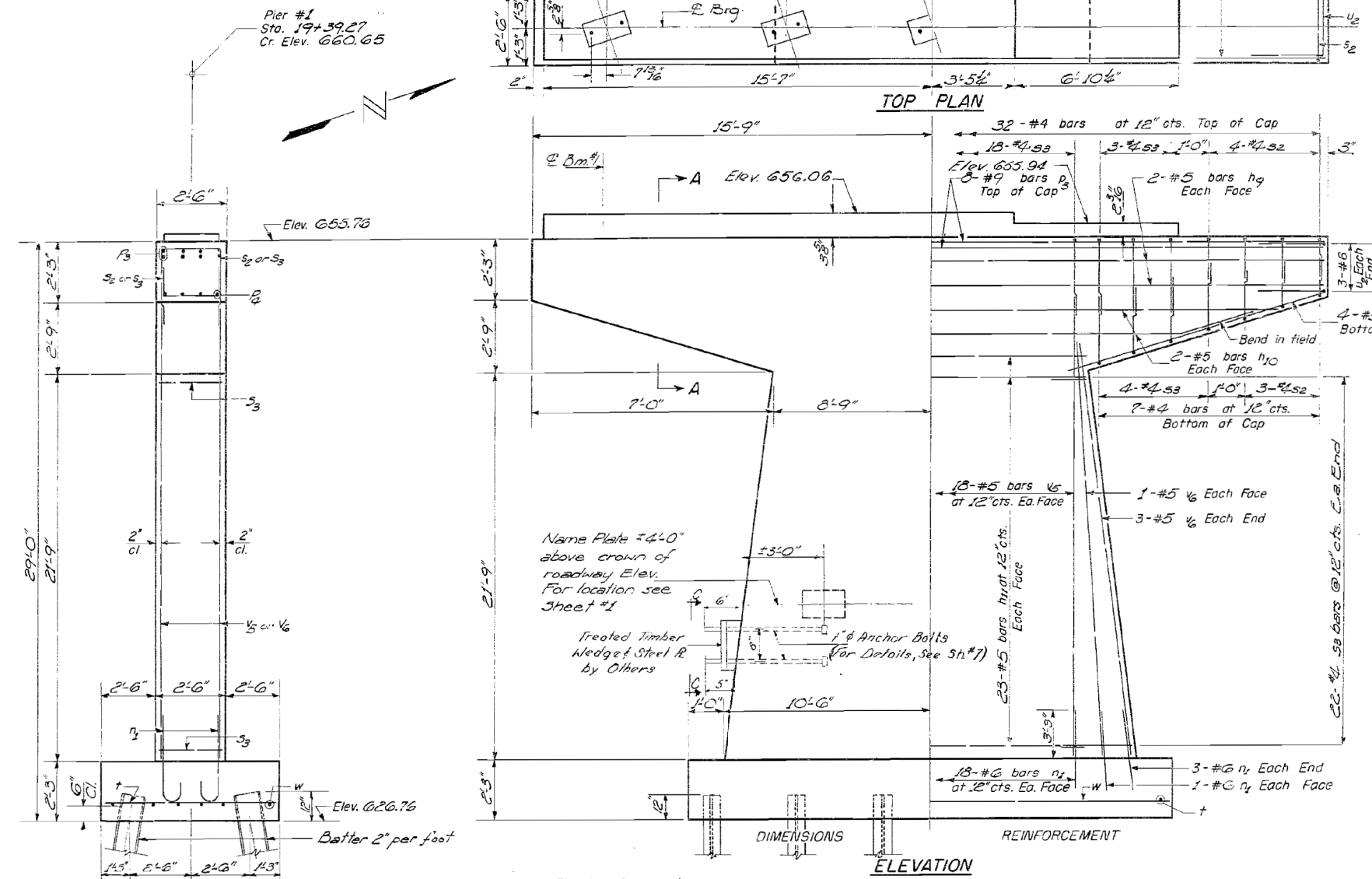
A-8-L (15° - 35°) 7-18-62 Rev. 11-27-62

USER NAME =	CHAMLIN	DESIGNED -	REVISOR -
PLOT SCALE =	NTS	CHECKED -	REVISOR -
PLOT DATE =	12/4/2020	DRAWN -	REVISOR -
		CHECKED -	REVISOR -

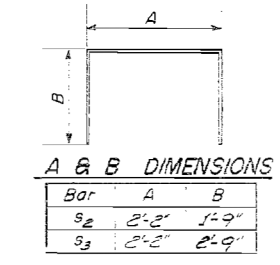
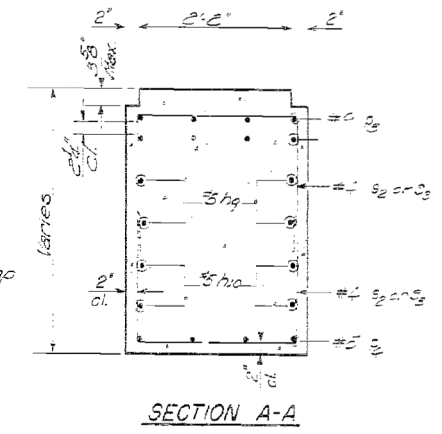
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT: RT 57 SEC 46-4HYB  
SHEET NO. 28  
CONTRACT NO. 66F09

**PILE DATA**  
Type: Steel IOB P42  
Capacity: 35 Ton  
Est. Length: 30 ft  
No. Req'd: 12



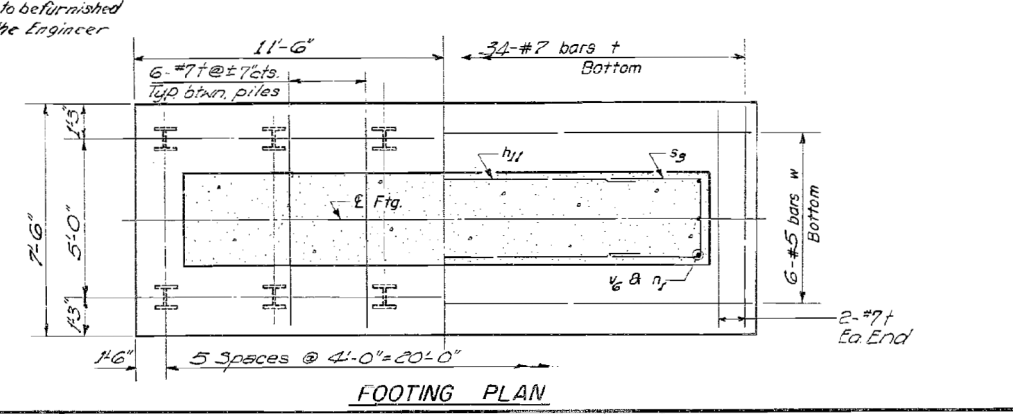
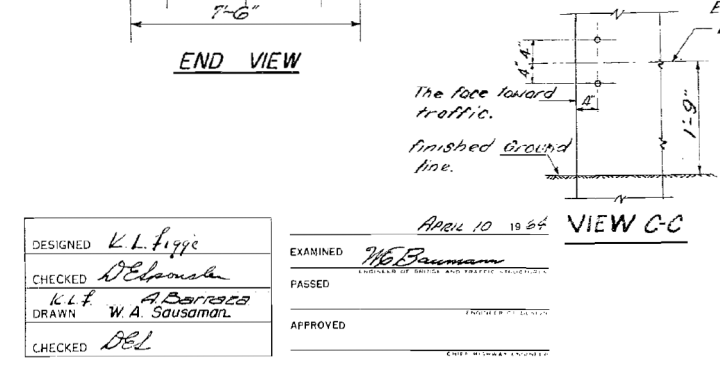
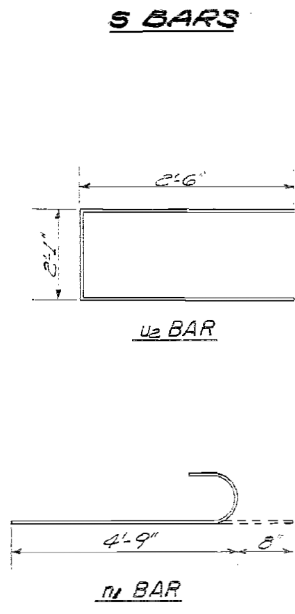
Note: All edges shall have standard 3/4" chamfers except footings. Pour steps monolithically with cap.



**PIER #1 BILL OF MATERIAL**

Bar	No.	Size	Length	3'-026
h <sub>2</sub>	4	#5	3'-0"	—
h <sub>2</sub>	2	#5	2'-0"	—
n <sub>1</sub>	2	#5	17'-0"	—
r <sub>1</sub>	2	#3	5'-8"	—
s <sub>2</sub>	5	#9	3'-0"	—
r <sub>2</sub>	2	#5	9'-0"	—
s <sub>2</sub>	10	#4	5'-8"	—
s <sub>3</sub>	26	#4	7'-8"	—
t	3	#7	7'-0"	—
u <sub>2</sub>	6	#6	7'-1"	—
v <sub>2</sub>	36	#5	25'-0"	—
v <sub>2</sub>	10	#5	25'-0"	—
w	3	#5	23'-6"	—

Class X Concrete C.Ys. 36.5  
Reinforcement Bars Lbs. 2360  
Steel Piles (IOB P42) Lbs. 335



DESIGNED: K.L. Figg  
CHECKED: D. Charnin  
DRAWN: W.A. Sausam  
CHECKED: D.B.L.

EXAMINED: W.B. Baumann  
PASSED: \_\_\_\_\_  
APPROVED: \_\_\_\_\_

P-2 Re-drawn 7-17-59 Rev. 11-25-59

Rev. 3/13/67 Added Anchor Bolts for Guard Rail Added View C-C

Rev. 3/13/67 Added Step Elevations. Remove Anchor Bolts for Guard Rail & View C-C

Rev. 7-20-67 Added Anchor Bolts for Guardrail Added View C-C - D.E.S.

**PIER #1**  
F.A.I. RT 57 SEC. 46-4HYB  
KANKAKEE COUNTY  
STA. 547+89.82

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USER NAME =	CHAMLIN	DESIGNED -	K.L. Figg	REVISED -	
PLOT SCALE =	NTS	CHECKED -	D. Charnin	REVISED -	
PLOT DATE =	12/4/2020	DRAWN -	W.A. Sausam	REVISED -	
		CHECKED -	D.B.L.	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

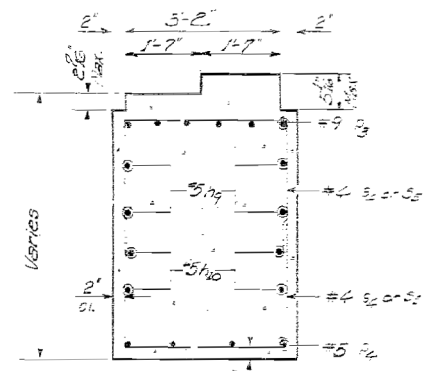
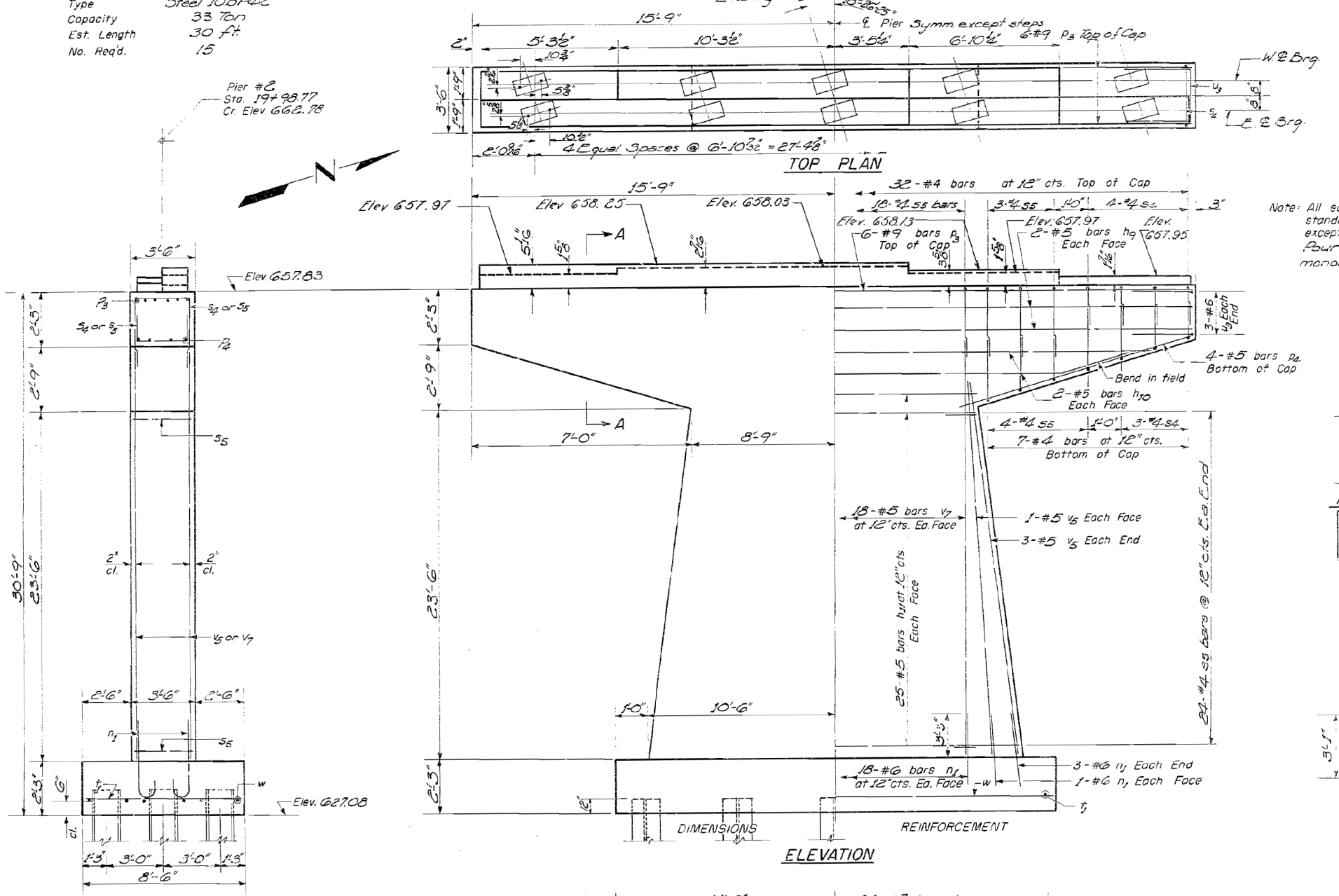
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57	46(3,4)RS-4 & I-1	KANKAKEE	278	231
			CONTRACT NO. 66F09	
SHEET OF SHEETS		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

NO. 57 46' KANKAKEE CO. 23  
12 SHEETS

**PILE DATA**  
Type Steel 108P42  
Capacity 33 Tons  
Est. Length 30 ft.  
No. Req'd. 15

Pier #2  
Sta. 19+98.77  
Cr. Elev. 662.78



SECTION A-A

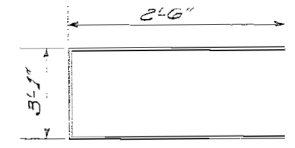
**PIER #2  
BILL OF MATERIAL**

Bar	No.	Size	LENGTH	SPACE
n9	4	#5	3'-4"	
n10	4	#5	2'-0"	
n11	50	#5	1'-0"	
n1	48	#5	3'-5"	
n8	6	#9	3'-4"	
n6	8	#5	9'-0"	
n2	16	#4	6'-5"	
n5	80	#4	8'-5"	
n7	24	#7	8'-0"	
n3	6	#6	8'-1"	
n4	10	#5	24'-0"	
n12	36	#5	23'-5"	
n	6	#5	22'-0"	

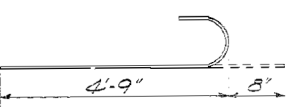
A & B DIMENSIONS

Bar	A	B
n2	3'-2"	1'-9"
n5	3'-2"	2'-9"

S BARS



u5 BAR



n1 BAR

DESIGNED *K.L. Figg*  
CHECKED *W.A. Sausaman*  
DRAWN *W.A. Sausaman*  
CHECKED *W.A. Sausaman*

EXAMINED *W.B. Baumann*  
PASSED  
APPROVED

APRIL 10 1964

P-2 Re-drawn 7-17-59 Rev. 11-25-59

Rev. 3/13/67 Added Anchor Bolts for Guard Rail  
Quantity of Reinf. Bars changed.  
Added View C-E.

Rev. 11/3/67 Added Top Dimensions  
Remove dimensions for Guard Rail  
& View C-E.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46(3,4)RS-4 & I-1	KANKAKEE	278	232

CONTRACT NO. 66F09

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12/4/2020 8:56:14 AM



USER NAME	DESIGNED	REVISIONS
CHAMLIN	K.L. Figg	
	W.A. Sausaman	
	W.B. Baumann	
	W.A. Sausaman	
	W.A. Sausaman	

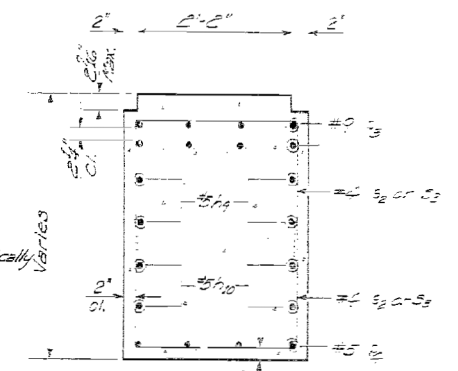
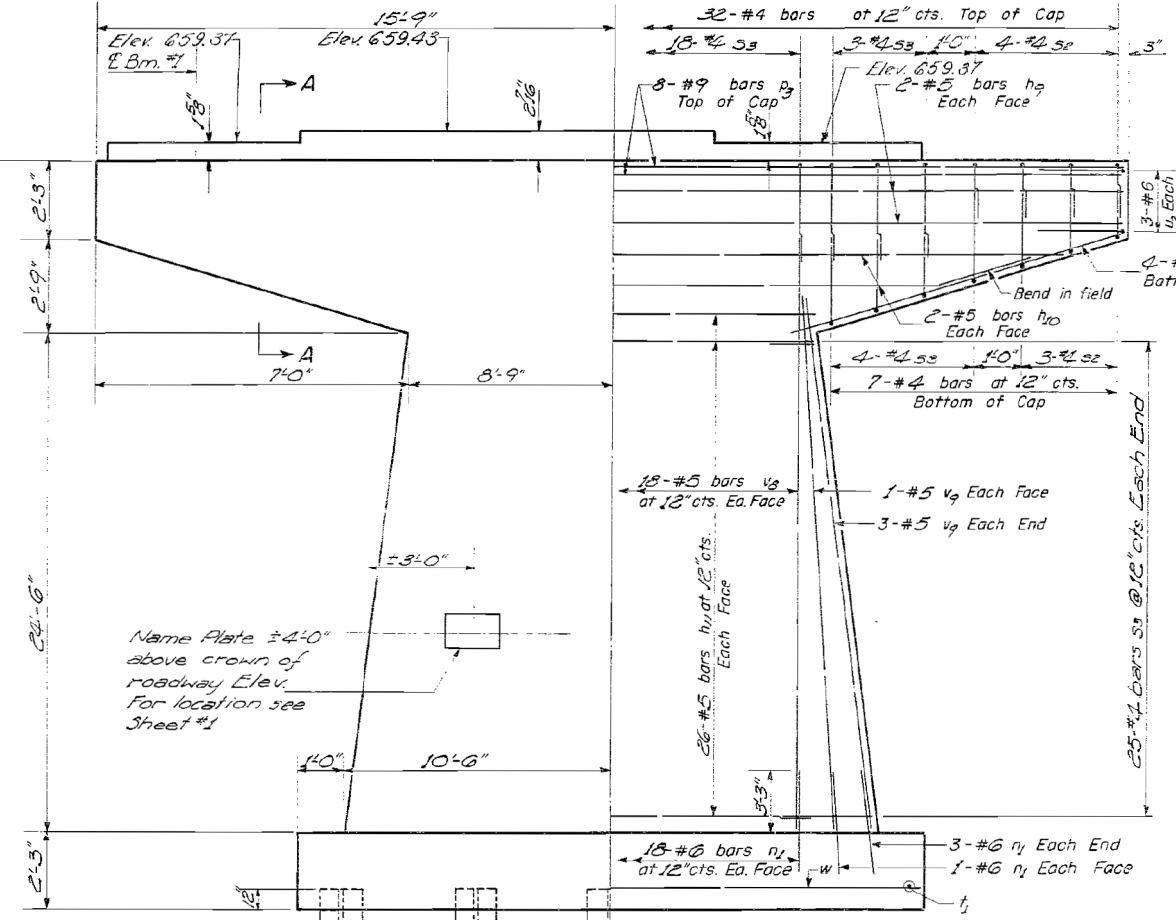
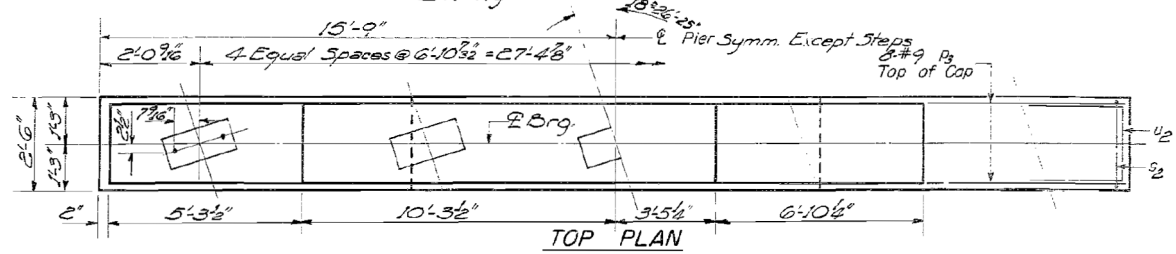


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

FILE 57 46 KANKAKEE  
4HY8

**FILE DATA**  
Type Steel 108P42  
Capacity 35 Tons  
Est. Length 30 ft.  
No. Req'd 14  
Test File 1

Pier #3  
Sta. 20+65.85  
Cr. Elev. 667.44

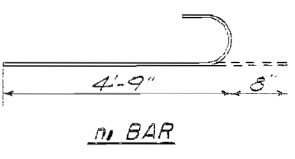
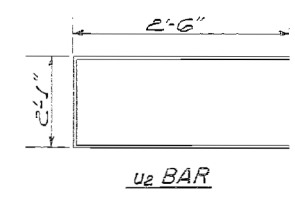


Note: All edges shall have standard 3/4" chamfers except footings. Four steps monolithically with cap.

**A & B DIMENSIONS**

Bar	A	B
s <sub>2</sub>	2'-2"	1'-9"
s <sub>3</sub>	2'-2"	2'-9"

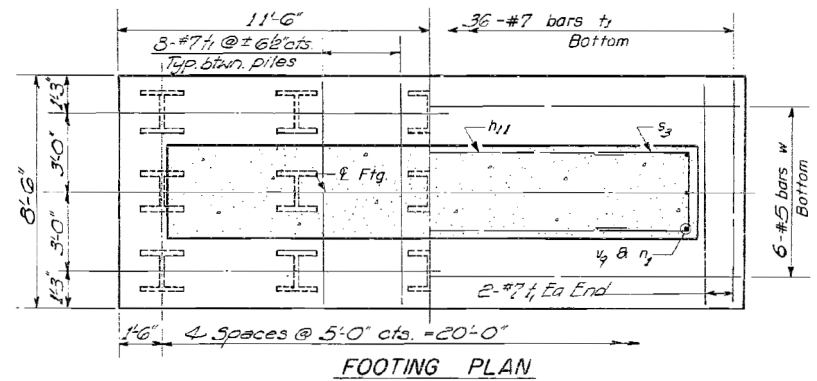
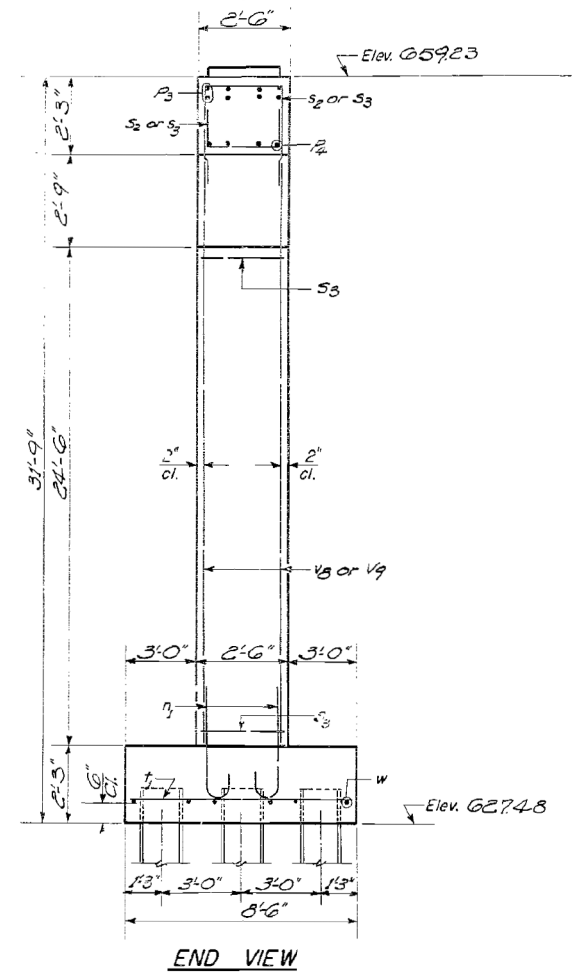
**S BARS**



**PIER #3  
BILL OF MATERIAL**

Bar	No.	Size	Length	Notes
n <sub>1</sub>	4	#5	3'-10"	
n <sub>2</sub>	4	#5	2'-10"	
n <sub>3</sub>	22	#5	1'-10"	
s <sub>2</sub>	26	#6	5'-2"	
s <sub>3</sub>	8	#9	3'-5"	
s <sub>4</sub>	8	#5	4'-0"	
s <sub>5</sub>	16	#4	5'-8"	
s <sub>6</sub>	82	#4	7'-8"	
t <sub>1</sub>	36	#7	8'-0"	
n <sub>4</sub>	8	#6	7'-1"	
v <sub>1</sub>	36	#5	2'-15"	
v <sub>2</sub>	10	#5	2'-7"	
w	8	#5	2'-15"	

Class X Concrete Cyls 75%  
Reinforcement Bars Lbs. 20 C  
Steel Pile (bars) Lbs. 28 C  
Test: P. 5 (108P42) SA



DESIGNED K.L. Pyge  
CHECKED O. Elson  
DRAWN W.A. Sausaman  
APPROVED

APR 10 1964  
W.E. Baumann

P-2 Re-drawn 7-17-59 Rev. 11-25-59

Rev. 3/14/67 Added Anchor Bolts for Guard Rail  
Rev. 6/13/67 Added Step Elevations  
Removed Anchor Bolts for Guard Rail & View etc. - P&S

**PIER #3  
F.A.I. RT. 57 SEC. 46-4HY8  
KANKAKEE COUNTY  
STA. 547+59.82**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	233

CONTRACT NO. 66F09



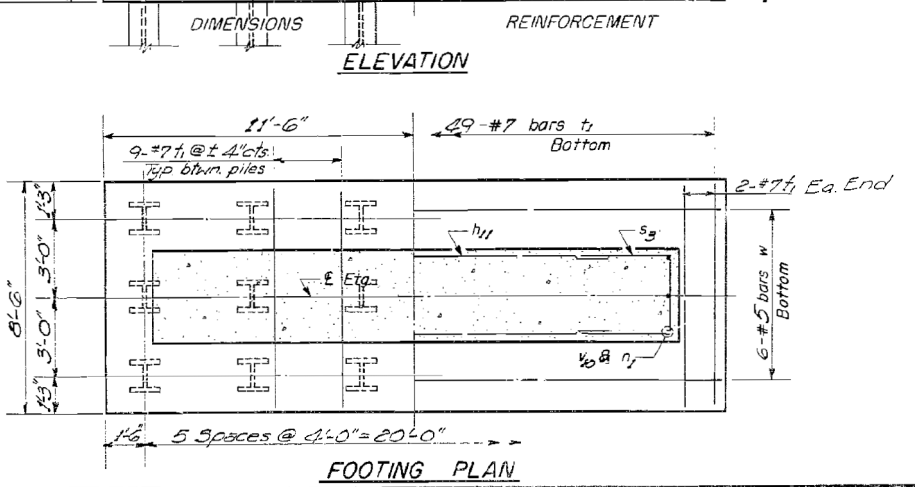
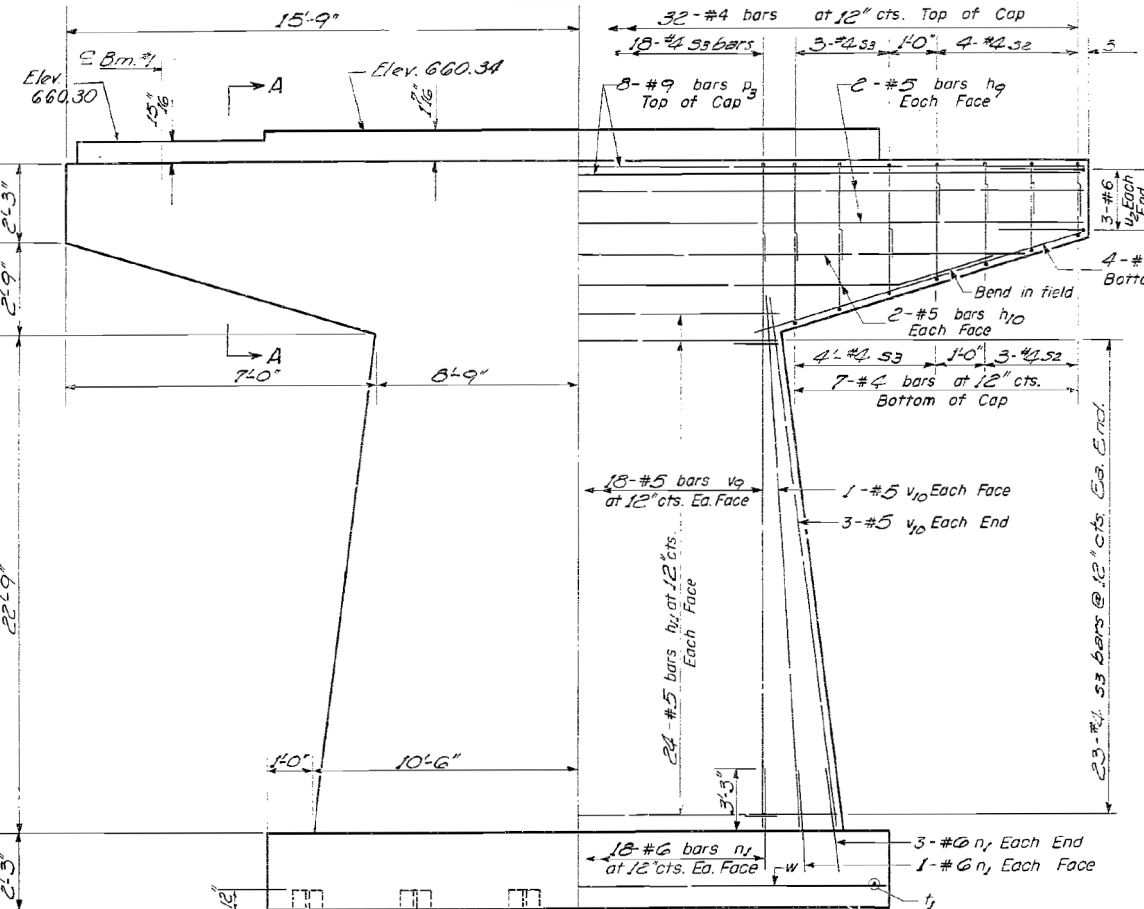
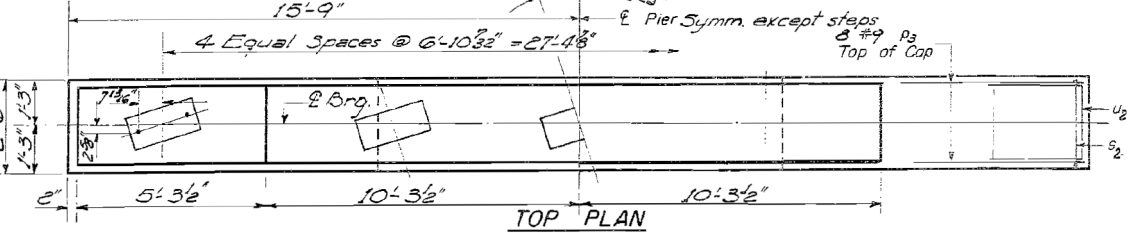
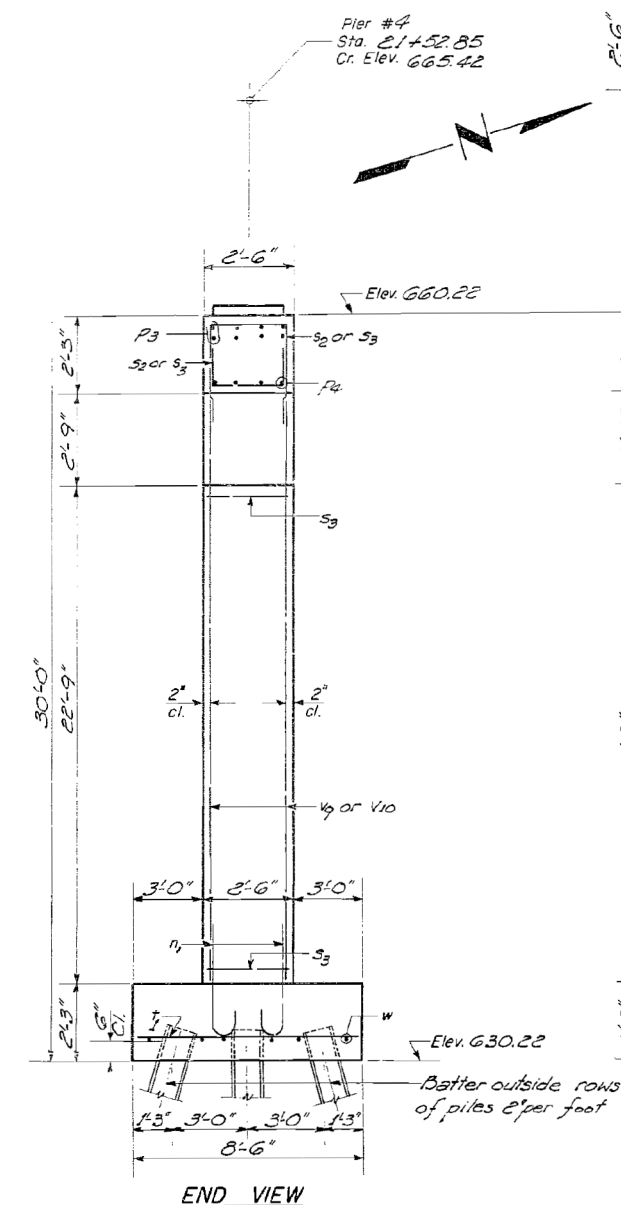
USER NAME	DESIGNED	REVISIONS
CHAMLIN	K.L. Pyge	
	O. Elson	
	W.A. Sausaman	

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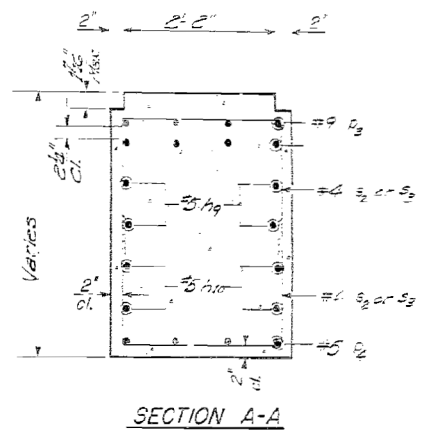
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**PILE DATA**  
 Type Steel I03P42  
 Capacity 35 Ton.  
 Est. Length 30  
 No. Req'd 18

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS  
 SHEET NO. 27  
 46-0089 KANKAKEE BRIDGE 53  
 4HYB



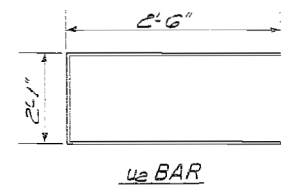
Note: All edges shall have standard 3/4" chamfers except footings. Four steps monolithically with cap.



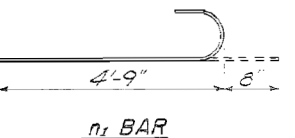
**A & B DIMENSIONS**

Bar	A	B
s2	2'-2"	1'-9"
s3	2'-2"	2'-9"

**s BARS**



**u2 BAR**



**n1 BAR**

**PIER #4  
 BILL OF MATERIAL**

Bar	No.	Size	Length	3-326
h2	2	#5	21'-0"	—
h3	4	#5	27'-0"	—
n1	28	#5	17'-0"	—
s1	28	#5	5'-5"	—
s2	8	#9	31'-0"	—
s3	8	#5	9'-0"	—
s4	16	#4	5'-8"	—
s5	18	#4	7'-8"	—
t1	42	#7	8'-0"	—
u2	6	#6	7'-1"	—
v2	33	#5	25'-0"	—
v3	10	#5	23'-0"	—
w	3	#5	22'-3"	—

Class X Concrete Curs. 699  
 Reinforcement Bars Lbs 3050  
 Steel Piles 20520' Lbs 545

**PIER #4  
 F.A.I. RT. 57 SEC. 46-4HYB  
 KANKAKEE COUNTY  
 STA. 547+89.82**

DESIGNED: V. L. Kippe  
 CHECKED: J. B. Schaefer  
 DRAWN: W. A. Sausman  
 APRIL 10 1964  
 EXAMINED: H. B. Baumann  
 PASSED: W. A. Sausman  
 APPROVED: W. A. Sausman

P-2 Re-drawn 7-17-59 Rev. 11-25-59

Rev. 3/14/62 Pile incl. cap to 12' Footing depth changed Quantity of Reinf. Bars chgd.  
 Rev. 6-13-67 Add Step Elevation - DES



USER NAME	DESIGNED	REVISIONS
CHAMLIN	V. L. Kippe	1
	J. B. Schaefer	2
	W. A. Sausman	3

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
 FOR INFORMATION ONLY

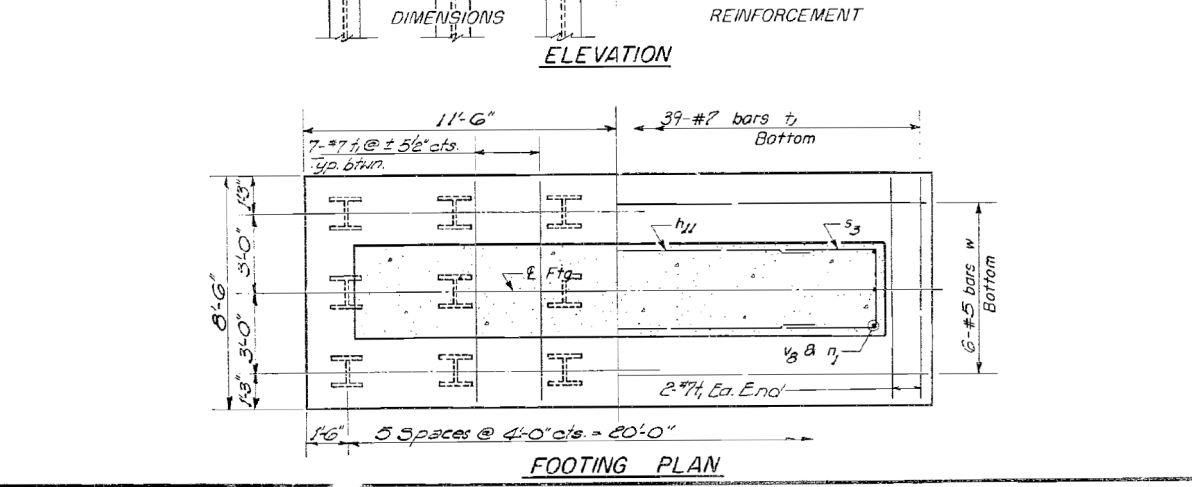
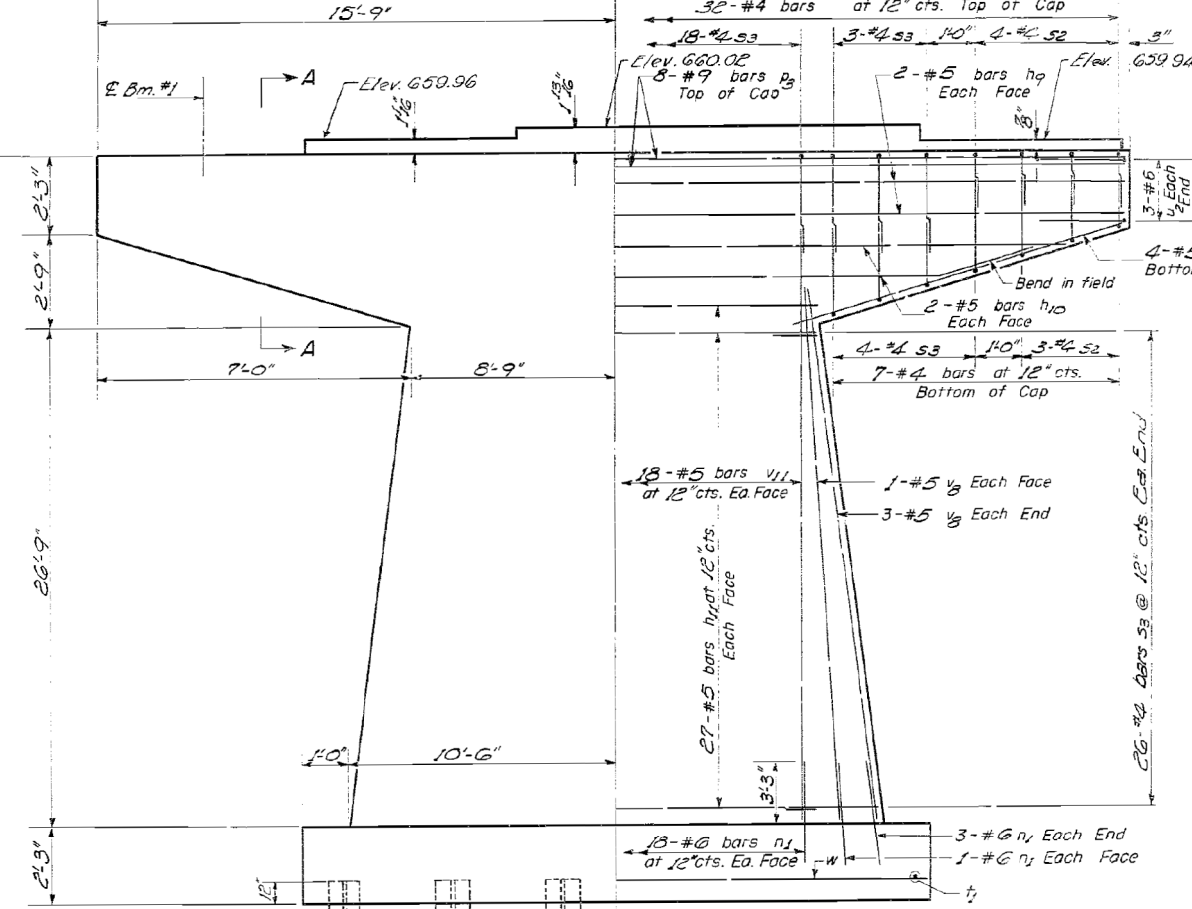
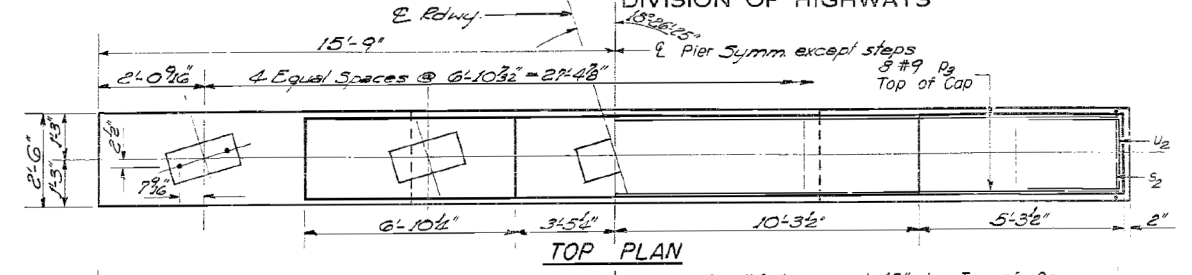
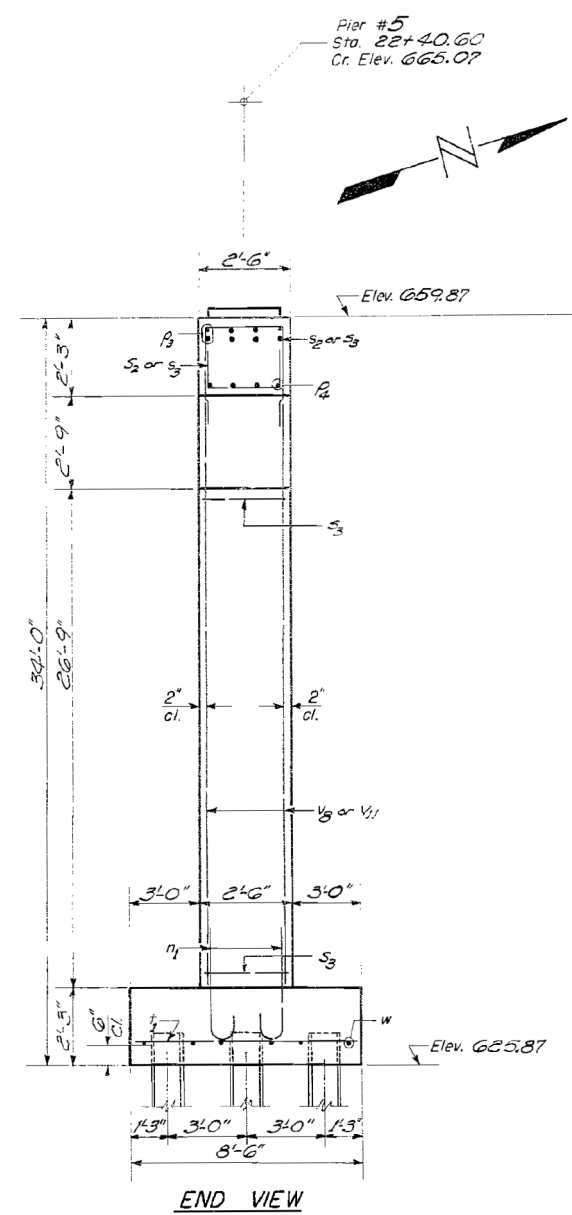
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57	46-(3,4)RS-4 & I-1	KANKAKEE	278	234

CONTRACT NO. 66F09

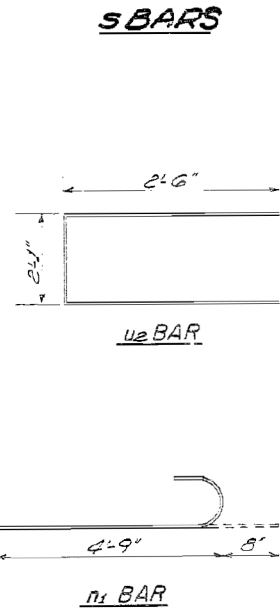
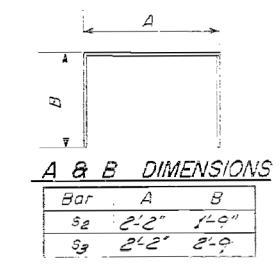
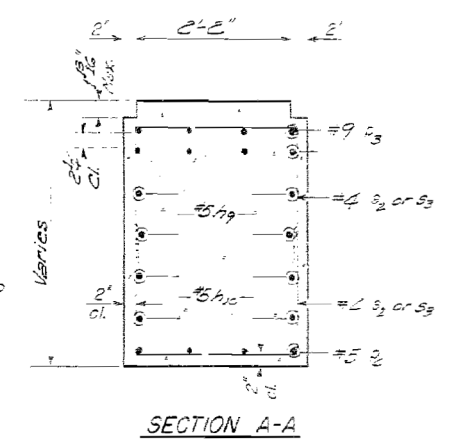
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJ 46-4418 KANKAKEE CO ILL  
SHEET 235

**PILE DATA**  
Type: Steel JOB P42  
Capacity: 33 Tons  
Est. Length: 30 ft  
No. Req'd: 18



Note: All edges shall have standard 3/4" chamfers except footings. Pour steps monolithically with cap.



**PIER #5**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Weight
#3	4	#3	31'-0"	
#3	4	#3	27'-0"	
#3	5	#3	17'-0"	
#5	27	#5	5'-0"	
#5	5	#5	3'-0"	
#5	3	#5	9'-0"	
#6	18	#6	5'-5"	
#6	84	#6	7'-8"	
#7	39	#7	8'-0"	
#7	7	#7	7'-1"	
#7	10	#7	27'-5"	
#7	39	#7	20'-9"	
#7	6	#7	22'-5"	

Concrete: 0.1458 Tons  
Reinforcement: Bars Lbs. 8820  
Steel Piles (Job P42) Lbs. 525

DESIGNED: K.L. Papp  
CHECKED: W.A. Sausaman  
DRAWN: W.A. Sausaman  
APPROVED: W.A. Sausaman

APRIL 10 1964

P-2 Re-drawn 7-17-59 Rev. 11-25-59

Rev. 3/11/67 Reinf. in footing added. Pile added above. 1/2" dia. Quantity of Reinf. Bars added.

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USER NAME =	CHAMLIN	DESIGNED -	REVISOR -
PLOT SCALE =	NTS	CHECKED -	REVISOR -
PLOT DATE =	12/4/2020	DRAWN -	REVISOR -
		CHECKED -	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	235
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

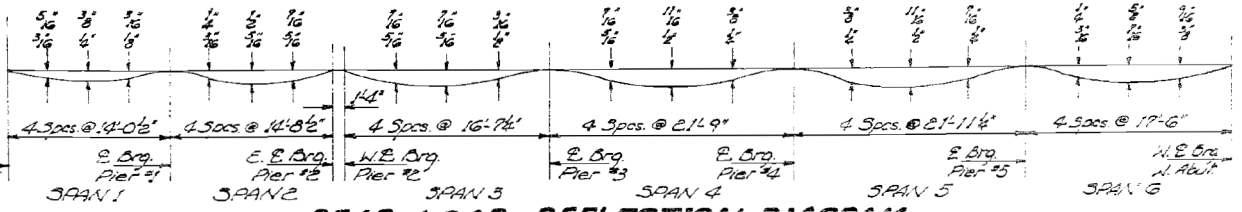
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

PROJECT 46-15  
 4/15 KANKAKEE  
 71 13 SHEETS

**INTERIOR BEAMS**

**EXTERIOR BEAMS**

Location	Beam No.	Station	Offset From E	Grade Elevs.	Grade Elevs. Adjusted for D.L. Deflt.	Location	Beam No.	Station	Offset From E	Grade Elevs.	Grade Elevs. Adjusted for D.L. Deflt.	Location	Beam No.	Station	Offset From E	Grade Elevs.	Grade Elevs. Adjusted for D.L. Deflt.	Location	Beam No.	Station	Offset From E	Grade Elevs.	Grade Elevs. Adjusted for D.L. Deflt.
Back	1	1879.213	6.500	657.746	657.746	E. Brg. Pier #3	4	2063.989	6.500	654.387	654.387	E. Brg. Pier #5	4	2238.452	6.500	665.062	665.062	Back	1	1879.213	6.500	657.746	657.746
East Abut.	2	1880.440	6.500	657.933	657.933	E. Brg. Pier #3	5	2068.024	6.500	661.159	661.159	E. Brg. Pier #5	5	2240.807	6.500	665.078	665.078	East Abut.	2	1880.440	6.500	657.933	657.933
E. Brg. Pier #3	6	1882.207	6.500	658.309	658.309	E. Brg. Pier #3	6	2073.689	6.500	661.551	661.551	E. Brg. Pier #5	6	2242.774	6.500	665.011	665.011	East Abut.	3	1882.207	6.500	658.309	658.309
E. Brg. Pier #3	7	1885.039	6.500	657.924	657.924	E. Brg. Pier #3	7	2078.221	6.500	664.624	664.624	E. Brg. Pier #5	7	2248.439	6.500	664.747	664.747	East Abut.	4	1885.039	6.500	657.924	657.924
East Abut.	8	1885.107	6.500	656.070	656.070	E. Brg. Pier #3	8	2082.857	6.500	664.792	664.792	E. Brg. Pier #5	8	2250.807	6.500	664.812	664.812	East Abut.	5	1885.107	6.500	656.070	656.070
East Abut.	9	1885.274	6.500	658.144	658.144	E. Brg. Pier #3	9	2087.424	6.500	664.826	664.826	E. Brg. Pier #5	9	2252.774	6.500	664.838	664.838	East Abut.	6	1885.274	6.500	658.144	658.144



DESIGNED: H.L. Figgie  
 CHECKED: J. DeLeon  
 DRAWN: K.L. Figgie  
 CHECKED: Del

EXAMINED: J.E. Beumann  
 PASSED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

APRIL 10 1964

**DEAD LOAD DEFLECTION DIAGRAM**  
 (Due to weight of concrete only)  
 Note: The above deflections are not to be used in the field if the Engineer is working from the Grade Elevations Adjusted for Dead Load Deflection as shown on this sheet.

**ELEVATIONS**  
 F.A.I. RT. 59 SEC. 46-6NVE  
 KANKAKEE COUNTY  
 STA. 547+89.00

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 DESIGNED -  
 CHECKED -  
 PLOT SCALE = NTS  
 DRAWN -  
 CHECKED -  
 DATE = 12/4/2020

DESIGNED -  
 CHECKED -  
 DRAWN -  
 CHECKED -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS SN 046-0089  
 FOR INFORMATION ONLY

SHEET OF SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	237
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

F.A.I. 57 46-  
 KANKAKEE  
 STA. 547+89.82

DESIGNED *K.L. Tigge*  
 CHECKED *DeBorja*  
 DRAWN  
 CHECKED  
 EXAMINED *W. Baumann*  
 PASSED  
 APPROVED

Pier #	Boring No.	Station	Offset	Ground Surface	Soil	Penetration	Water	Notes	Remarks
Pier #1	2065	21+87.5	14.5	631.29	Medium Brownish Black SANDY LOAM	25	11		
				628.09	Medium Yellowish Brown Rounded Fine SAND	5	16	15	
				624.29	Medium Gray SILTY CLAY (Varved)	4	29		
				623.09	Medium Gray CLAY (Varved)	2	28		
				620.29	Medium Gray Fine to Coarse Angular SAND (Saturated)	17			
				613.09	Dense Gray Coarse Angular SAND	18			
				610.29	Medium Gray Coarse Angular SAND	21			
				605.29	Dense Gray Coarse Angular SAND	25	49		
				603.09	Hard Gray LOAM (Fragments of Limestone)	74	11		
				598.29	Hard Gray CLAY LOAM	109	11		
Pier #2	2066	21+87.5	14.5	631.08	Very Stiff Gray CLAY LOAM	28	11		
				625.08	Hard Gray CLAY LOAM (Fragments of Limestone)	176	11		
				620.08	Loose Gray Angular SAND (Saturated)	4			
				617.58	Medium Gray Angular SAND (Saturated)	15	13		
				612.08	Medium Gray Angular SAND (Saturated)	32			
				608.08	Very Stiff Gray CLAY LOAM	28	11		
				605.08	Hard Gray CLAY LOAM (Fragments of Limestone)	176	11		
				602.08	Very Stiff Gray CLAY LOAM (Fragments of Limestone)	24	12		
				599.08	Very Dense Gray SILTY LOAM	68	12		
				597.80	Hard Gray CLAY LOAM (Fragments of Limestone)	207	8		
Pier #3	2067	21+87.5	14.5	631.07	Very Loose Brownish Black Rounded Fine SAND	4			
				628.27	Loose Yellowish Brown Rounded Fine SAND (Saturated from 5.5')	5	9	18	
				622.27	Stiff Gray CLAY (Varved)	10	5	25	
				621.07	Medium Gray CLAY (Varved)	6	23		
				620.07	Medium Gray CLAY (Varved)	11			
				616.07	Stiff Gray CLAY (Varved)	15	6	24	
				612.07	Medium Gray Semi-Angular SAND (Saturated)	24			
				608.07	Dense Gray Angular SAND & GRAVEL (Saturated)	35	44		
				606.07	Hard Gray CLAY LOAM (Fragments of Limestone)	73	10		
				601.27	Hard Gray CLAY LOAM (Fragments of Limestone)	96	9		
Pier #4	2152.5	23+14.5	7.0	631.06	Equivalent (Fill)				
				628.06	Loose Brownish Black Rounded Fine SAND	5	9	14	
				622.06	Medium Yellowish Brown Rounded Fine SAND (Saturated)	11			
				622.06	Stiff Gray CLAY (Varved)	10	13		
				617.36	Medium Gray Semi-Angular SAND (Disturbed)	12	8	21	
				610.07	Medium Gray Semi-Angular SAND (Saturated)	26			
				608.06	Dense to very dense Gray Angular SAND & GRAVEL (Fragments of Limestone)	22	22		
				603.06	Medium Gray Semi-Angular SAND (Saturated)	27			
				601.06	Dense to very dense Gray Angular SAND & GRAVEL (Fragments of Limestone)	43	27		
				597.06	Hard Gray CLAY LOAM (Fragments of Limestone)	87	11		
Pier #5	2262	21+87.5	14.5	631.05	Equivalent (Fill)				
				628.05	Loose Yellowish Brown Rounded Fine SAND	5	9	18	
				622.05	Stiff Gray CLAY (Varved)	10	5	25	
				621.05	Medium Gray CLAY (Varved)	6	23		
				620.05	Medium Gray CLAY (Varved)	11			
				616.05	Stiff Gray CLAY (Varved)	15	6	24	
				612.05	Medium Gray Semi-Angular SAND (Saturated)	24			
				608.05	Dense Gray Angular SAND & GRAVEL (Saturated)	35	44		
				606.05	Hard Gray CLAY LOAM (Fragments of Limestone)	73	10		
				601.25	Hard Gray CLAY LOAM (Fragments of Limestone)	96	9		
Pier #6	2152.5	23+14.5	7.0	631.04	Equivalent (Fill)				
				628.04	Loose Brownish Black Rounded Fine SAND	5	9	14	
				622.04	Medium Yellowish Brown Rounded Fine SAND (Saturated)	11			
				622.04	Stiff Gray CLAY (Varved)	10	13		
				617.36	Medium Gray Semi-Angular SAND (Disturbed)	12	8	21	
				610.07	Medium Gray Semi-Angular SAND (Saturated)	26			
				608.04	Dense to very dense Gray Angular SAND & GRAVEL (Fragments of Limestone)	22	22		
				603.04	Medium Gray Semi-Angular SAND (Saturated)	27			
				601.04	Dense to very dense Gray Angular SAND & GRAVEL (Fragments of Limestone)	43	27		
				597.04	Hard Gray CLAY LOAM (Fragments of Limestone)	87	11		

Surface Water El. None  
 Groundwater El. of 624.7  
 Completion El. of 623.0  
 After 24 Hours 623.2

Surface Water El. None  
 Groundwater El. of 624.6  
 Completion El. of 624.6  
 After 24 Hours 624.6

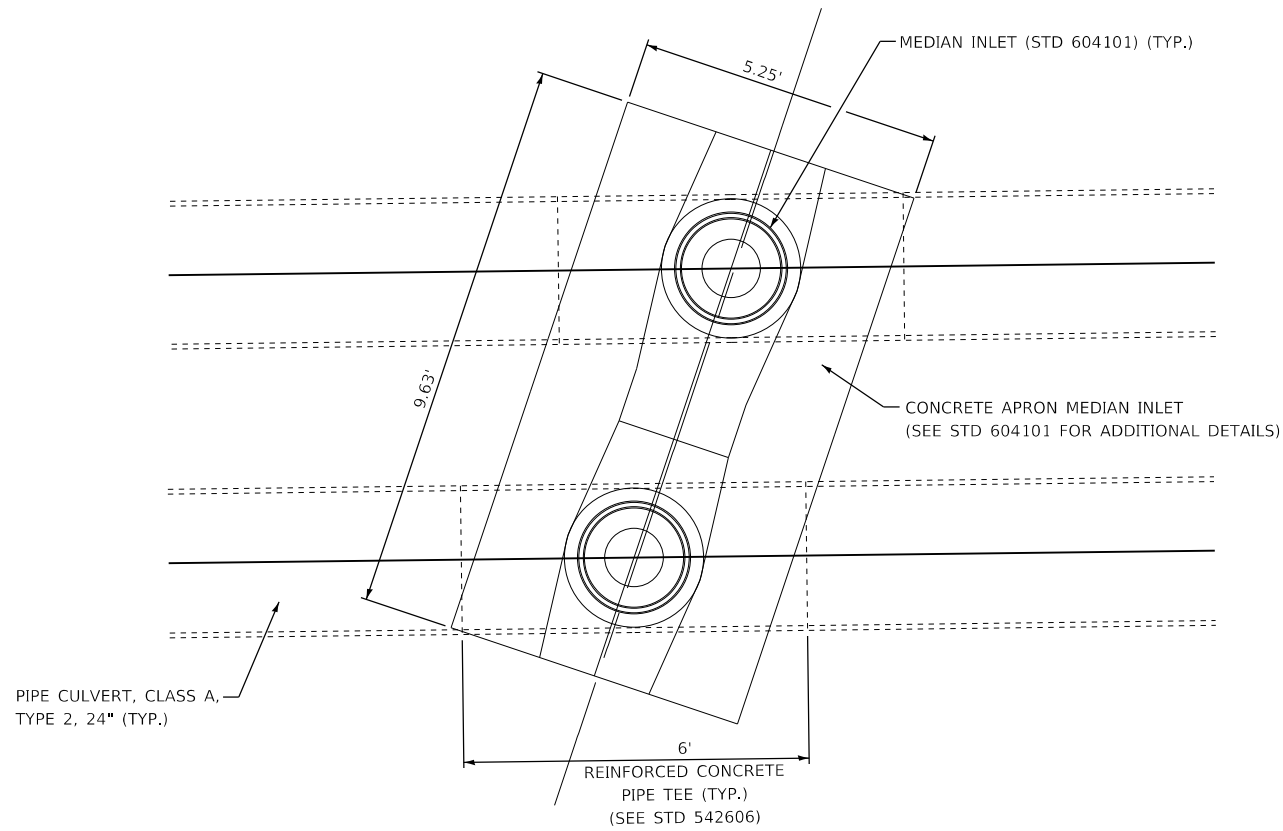
Surface Water El. None  
 Groundwater El. of 625.0  
 Completion El. of 623.2  
 After 24 Hours 623.2

Surface Water El. None  
 Groundwater El. of 624.7  
 Completion El. of 623.0  
 After 24 Hours 623.2

N - Standard Penetration Test - Blows per foot to drive a 140 lb hammer falling 30".  
 Qu - Unconfined Compressive Strength - 7/8"  
 W - Water Content - percentage of oven dry weight-%.

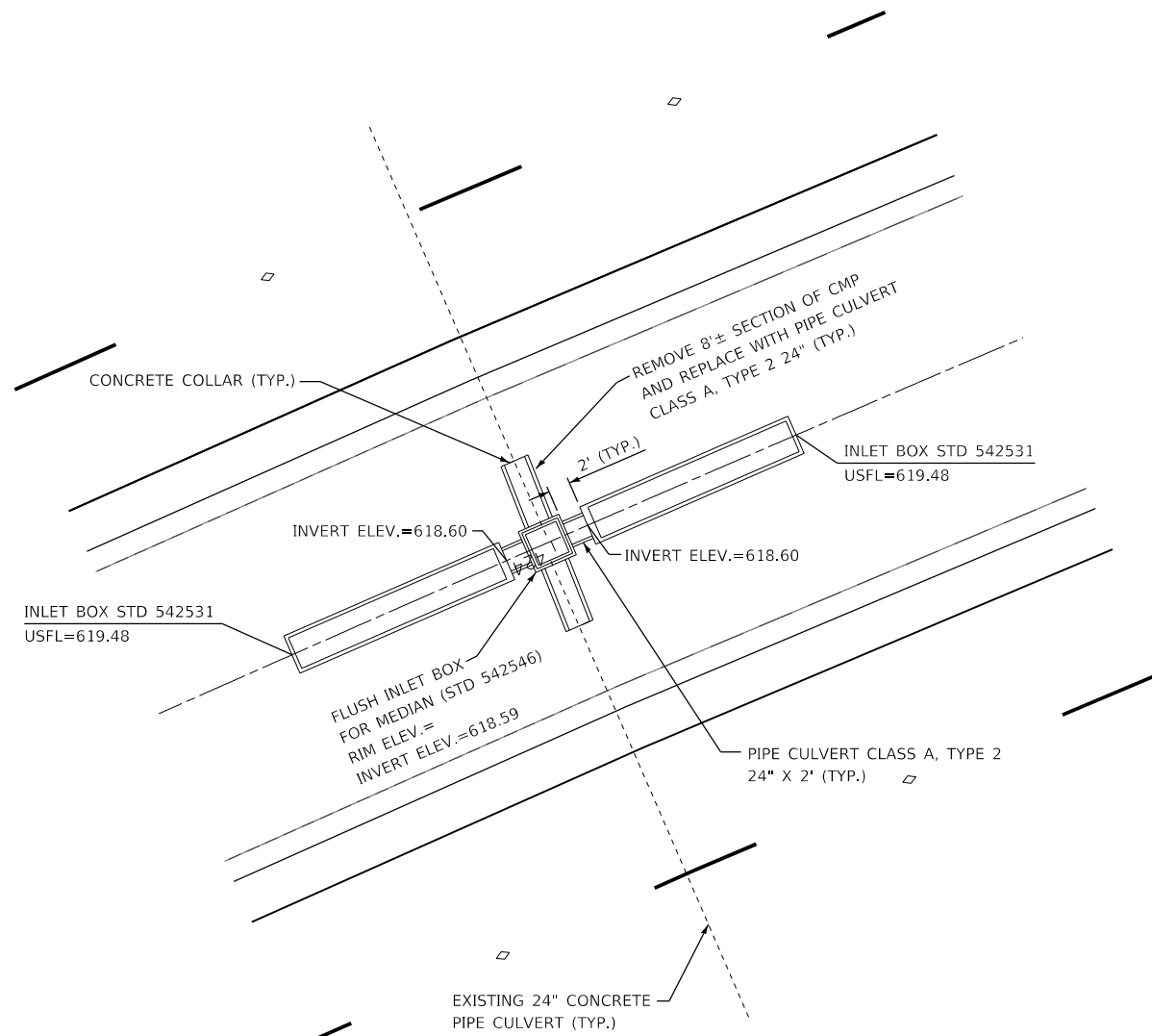
Type failure:  
 S - Shear Failure  
 C - Compression Failure  
 E - Estimated Value

BORINGS  
 F.A.I. 57 SEC. 46-4HB  
 KANKAKEE COUNTY  
 STA. 547+89.82



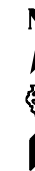
### CONCRETE APRON FOR MEDIAN INLET DETAIL

STA 305+50.71



### MEDIAN INLET DETAIL

STA 424+00



#### NOTES

1. SEE STANDARDS 542531 AND 542546 FOR ADDITIONAL DETAILS
2. EXTRA OPENINGS IN FLUSH INLET BOX INCLUDED IN COST OF FLUSH INLET BOX FOR MEDIAN, STANDARD 542546

MODEL det 3 details  
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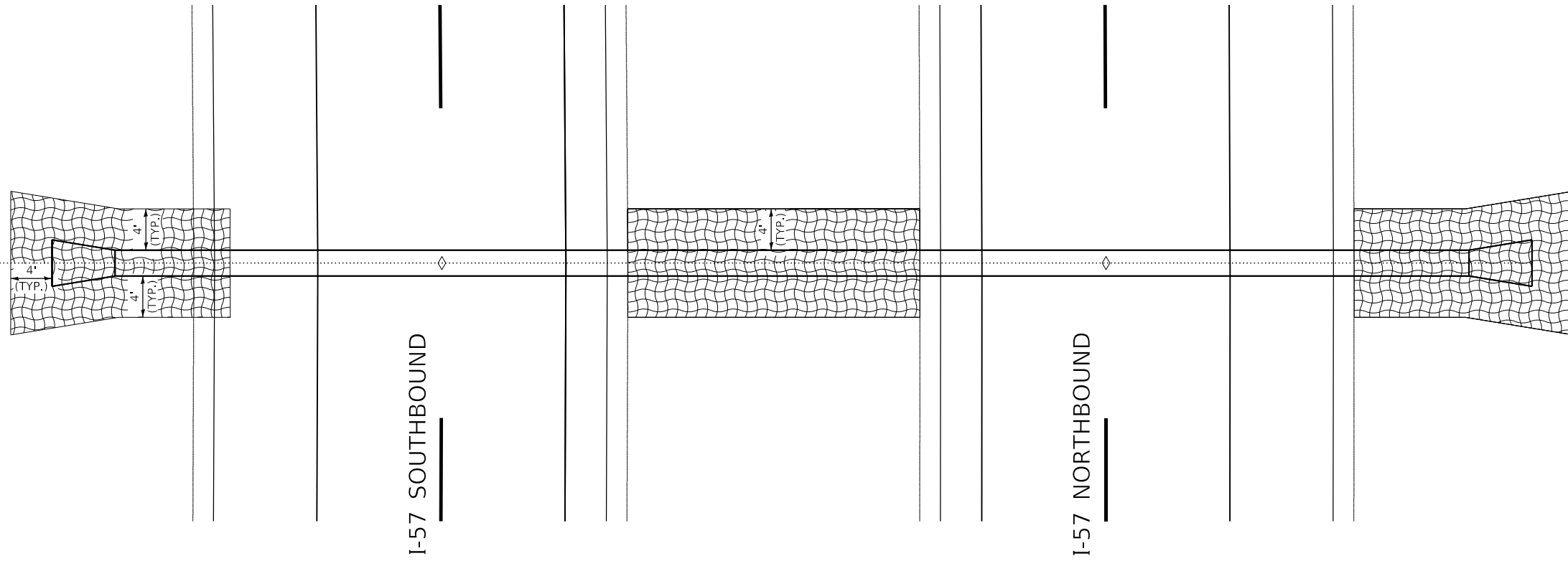
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

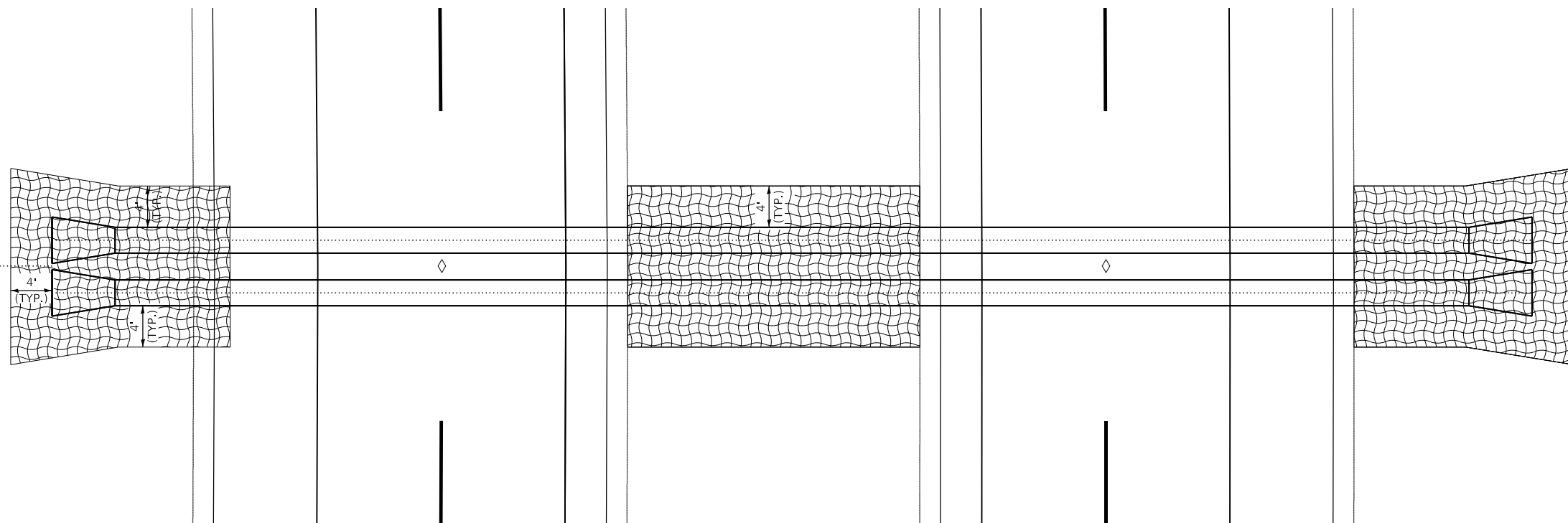
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	238
			CONTRACT NO. 66F09	
			ILLINOIS FED. AID PROJECT	



**SINGLE PIPE CULVERT LOCATION**



**DOUBLE PIPE CULVERT LOCATION**

MODEL: det 3 details  
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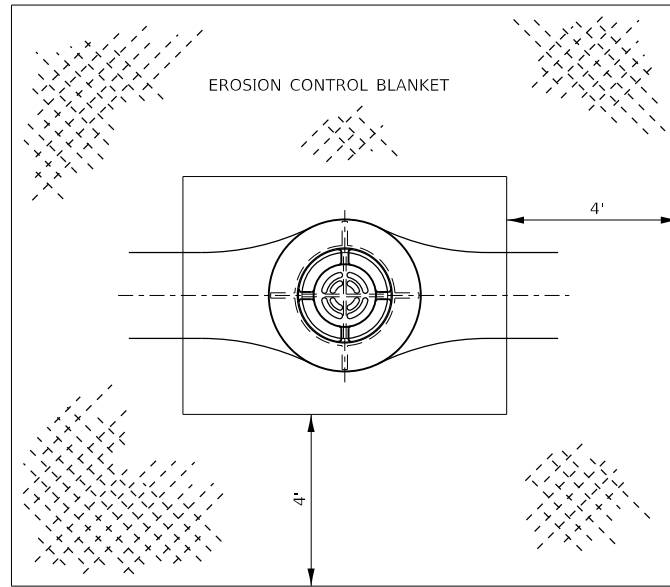
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	DRAWN - NV	REVISED -
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PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

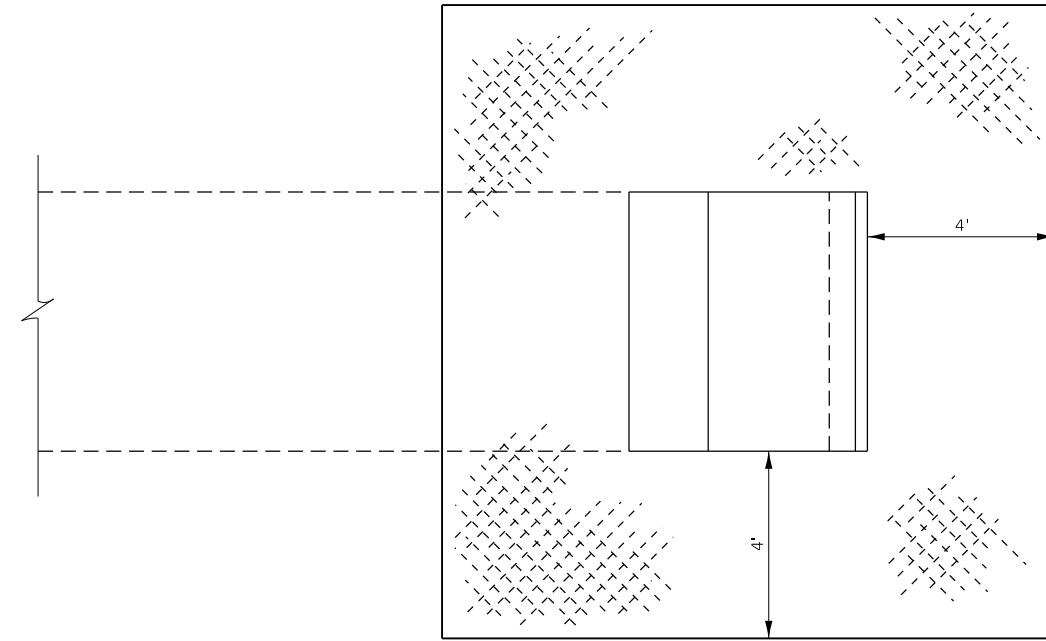
**EROSION CONTROL DETAILS**

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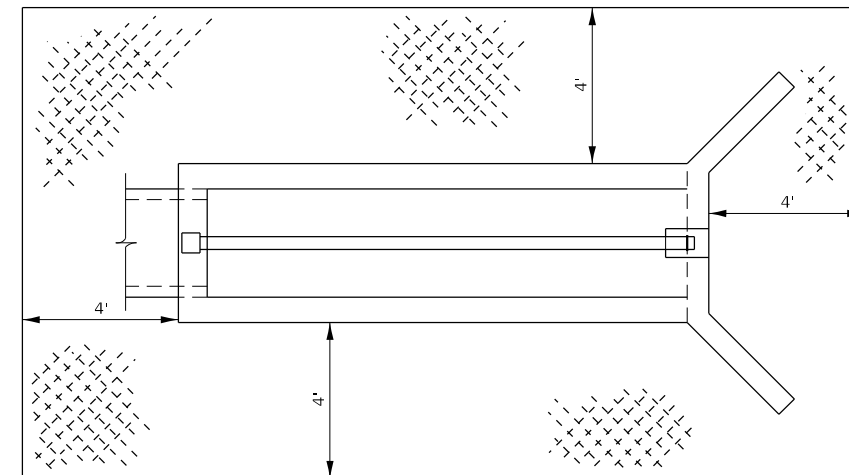
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	239
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



**EROSION CONTROL BLANKET  
AT MEDIAN INLET STD. 604101 OR STD. 604106**



**EROSION CONTROL BLANKET AT PRECAST  
BOX CULVERT END SECTIONS**



**EXCELSIOR BLANKET PLACEMENT FOR  
INLET BOXES STD. 542501 THROUGH STD. 542546**

MODEL: det 3 details  
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	DRAWN - NV	REVISED -
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PLOT DATE = 12/4/2020	DATE -	REVISED -

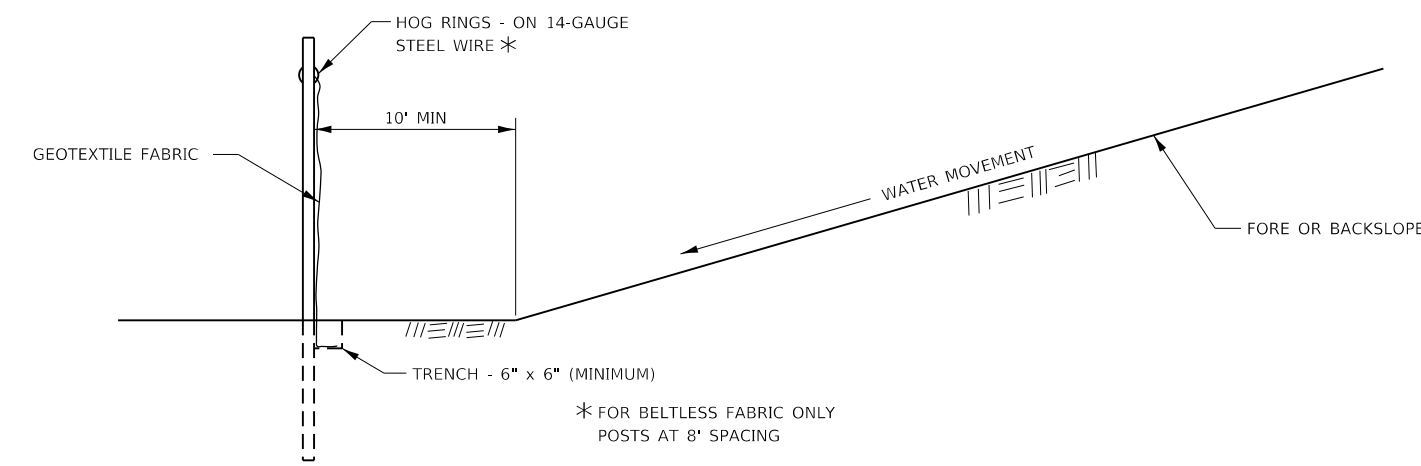
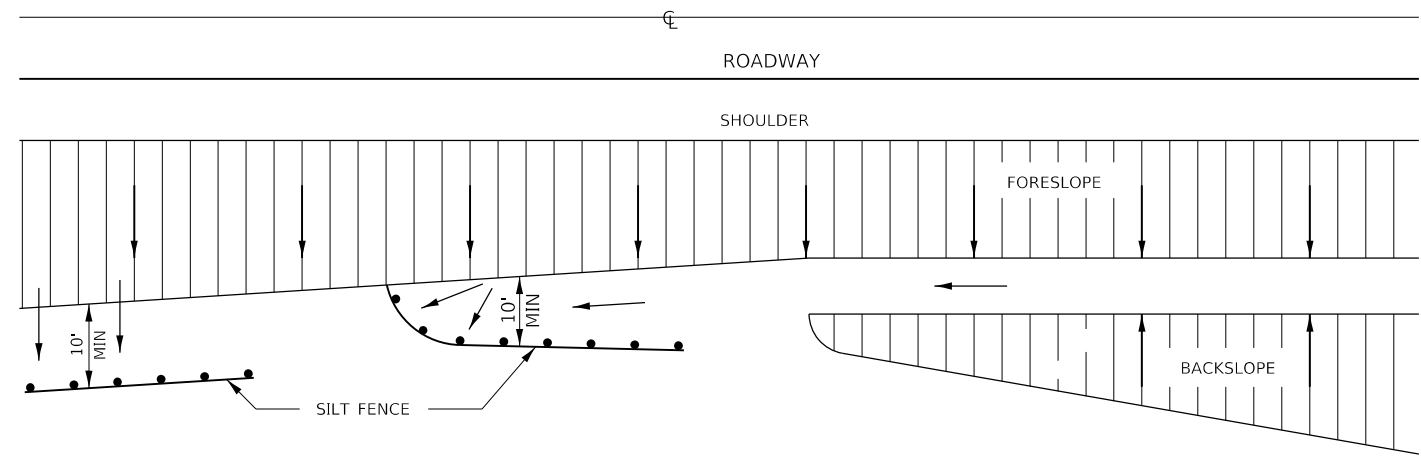
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

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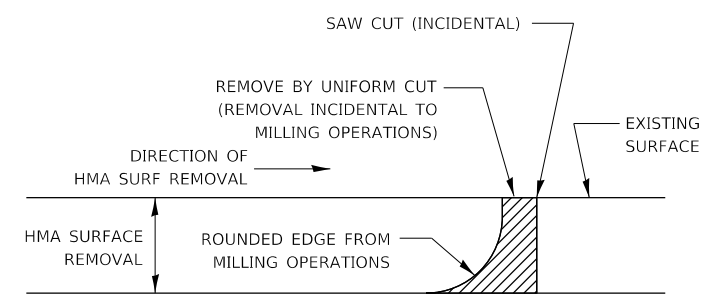
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57	46-(3,4)RS-4 & I-1	KANKAKEE	278	240
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				





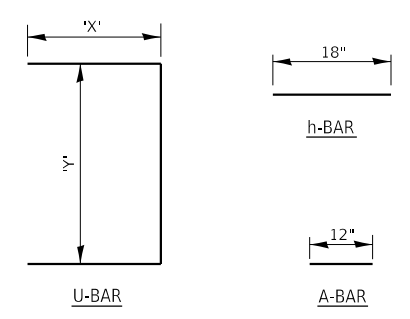
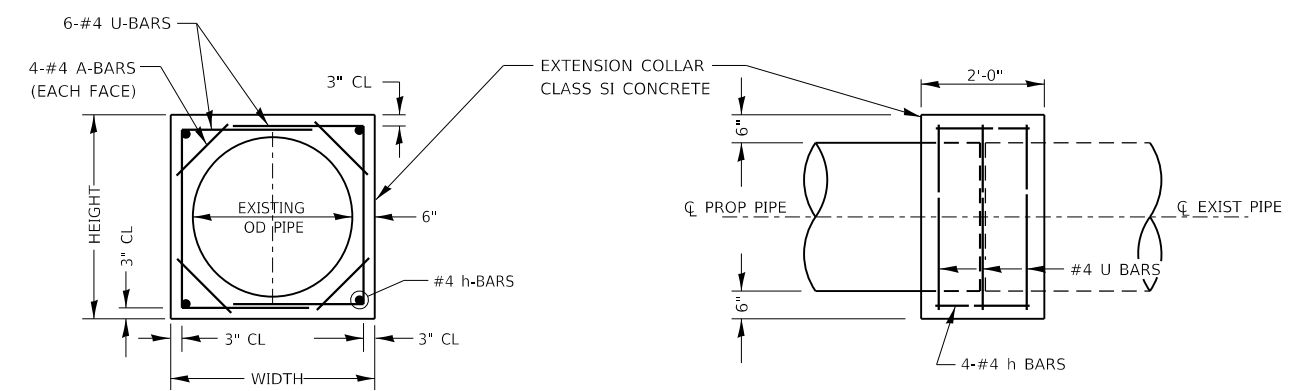
DETAILS OF SILT FENCE

**EROSION CONTROL DETAILS FOR SILT FENCE**



NOTE:  
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

**HMA DETAIL AT BUTT JOINTS**



LOCATION	EXISTING CULVERT SIZE FT x FT	EXTENSION COLLAR		A-BAR	U-BAR	h-BAR	CONC COLLAR CU YD	REINFORCEMENT BARS POUND	
		WIDTH	HEIGHT	12	'X' IN	'Y' IN			18
464+99	2	36	36	8	27	30	4	0.43	28.39

**COLLAR DETAIL (DIRECT PIPE CULVERT EXTENSION)**

MODEL det 3 details  
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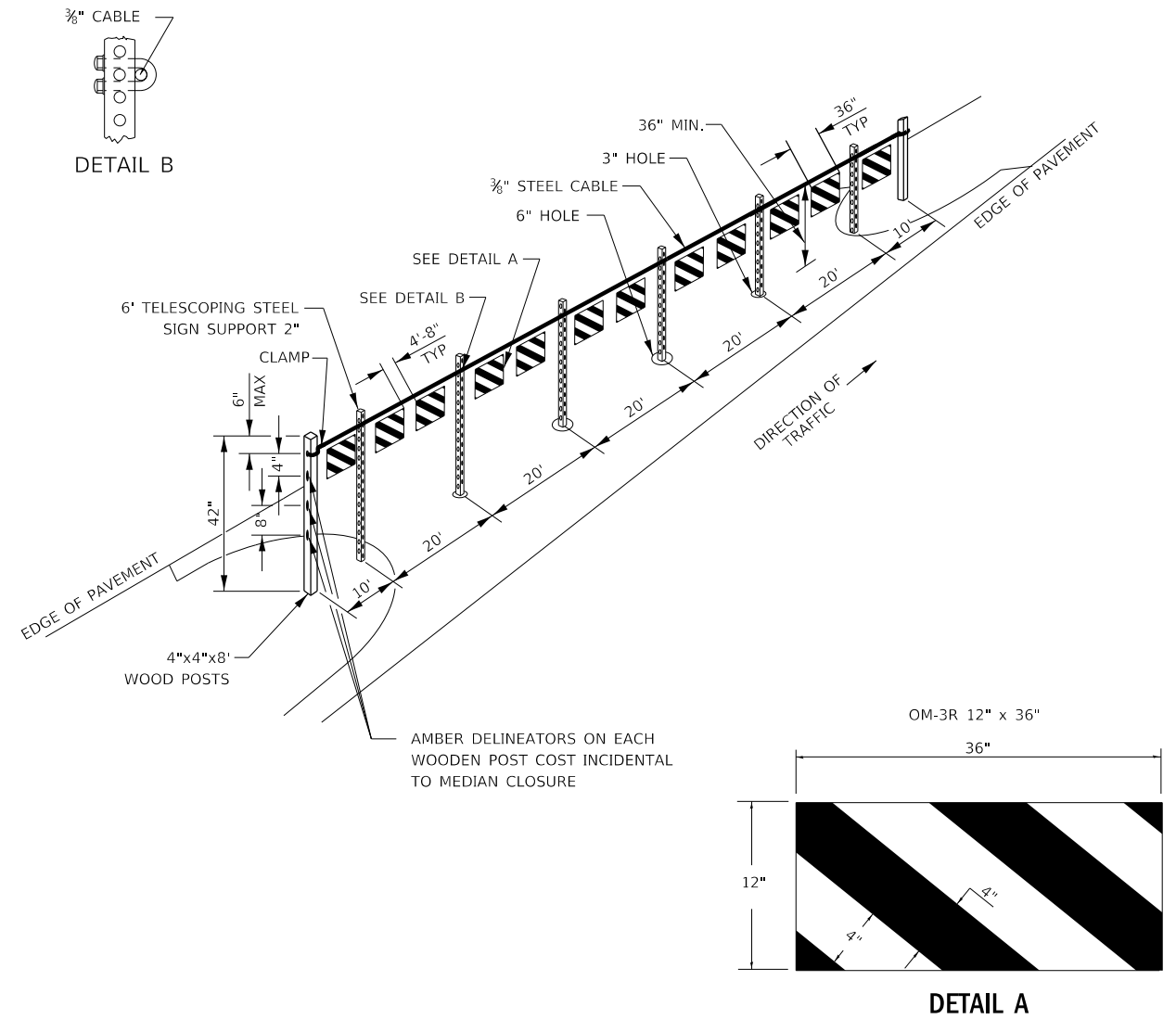
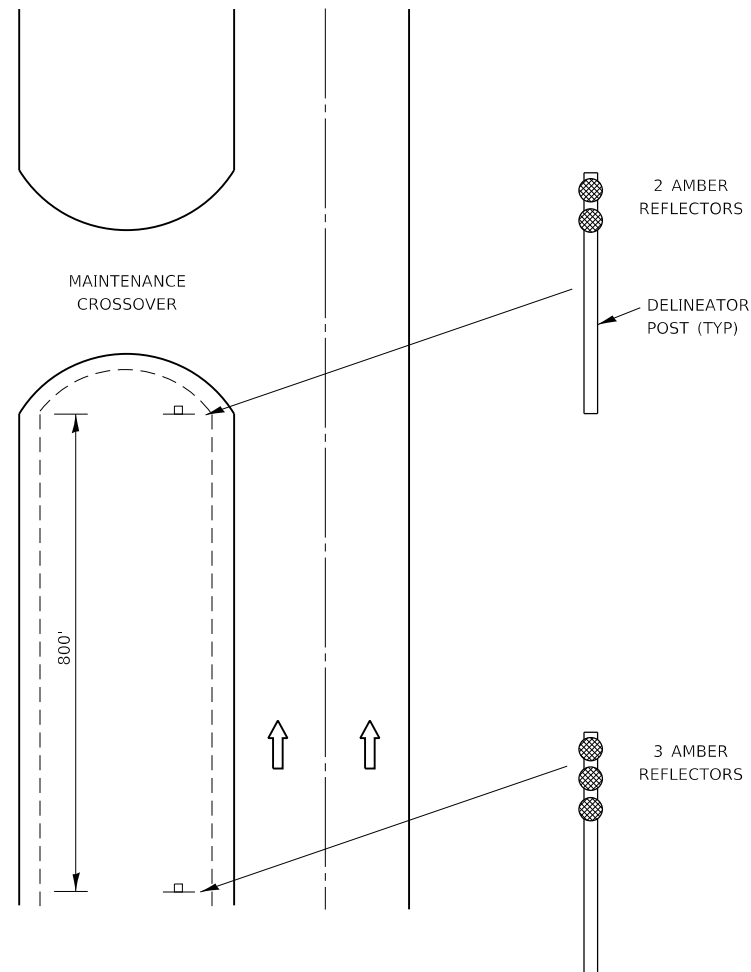
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NTS				SHEET 4 OF 15 SHEETS				STA. TO STA.	
DETAILS									

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	241
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

**DELINEATION  
FOR MAINTENANCE  
CROSSOVER  
(TYPICAL FOR BOTH DIRECTIONS)**



**GENERAL NOTES**

WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTION 634 & 636 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE PANELS SHALL BE ANCHORED TO THE 3/8" CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE REFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION AND SHALL BE ON BOTH SIDES.

ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3" HOLES SHALL BE INCIDENTAL TO THE MEDIAN CLOSURE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.

**TYPICAL MEDIAN CROSSOVER CLOSURE**

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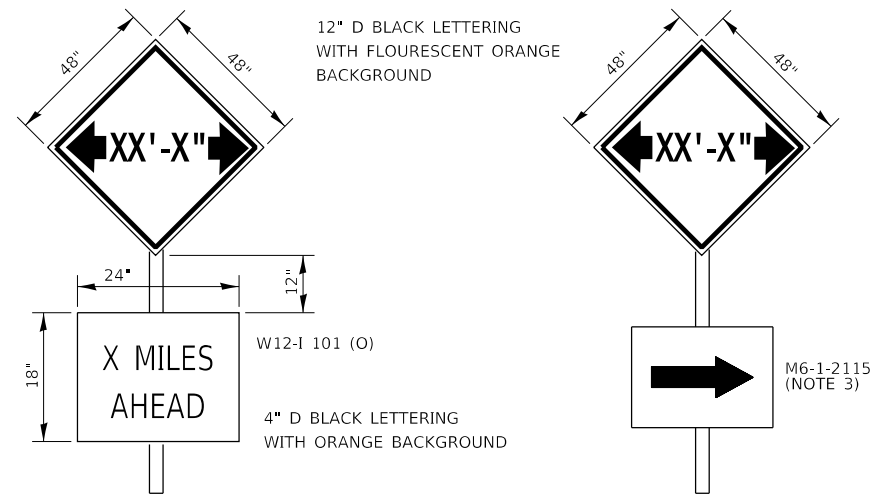
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

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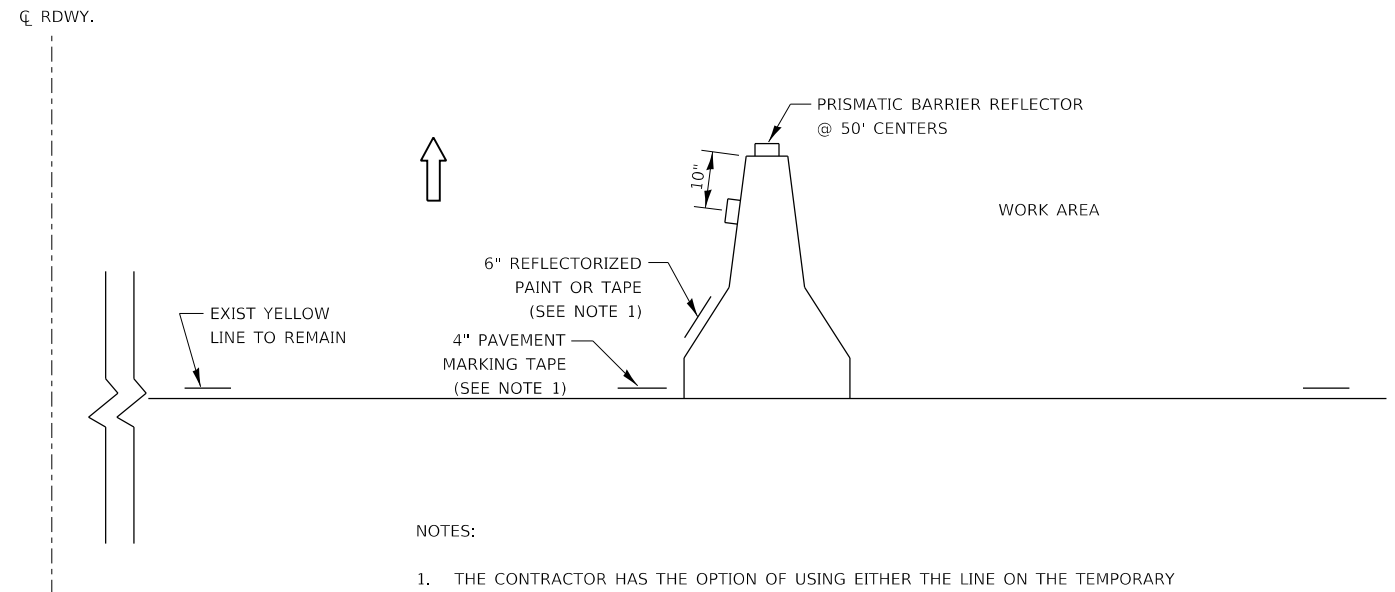
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57	46-(3,4)RS-4 & I-1	KANKAKEE	278	242
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

MODEL det 3 details  
 FILE Name: C:\Users\j1111111111\Documents\Survey\2020\CAD\_Sheets\09-66F09-312-det3.dwg



1. TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.
2. COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.
3. INCLUDE ARROW PLAQUE ON US 45/52 FOR I-57 WIDTH RESTRICTION AND ON US 45/52 AND S2000E ROAD FOR RIVER ROAD WIDTH RESTRICTION.

### WIDTH RESTRICTION SIGNING DETAILS



NOTES:

1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

### TRAFFIC CONTROL DETAIL FOR TEMPORARY CONCRETE BARRIER



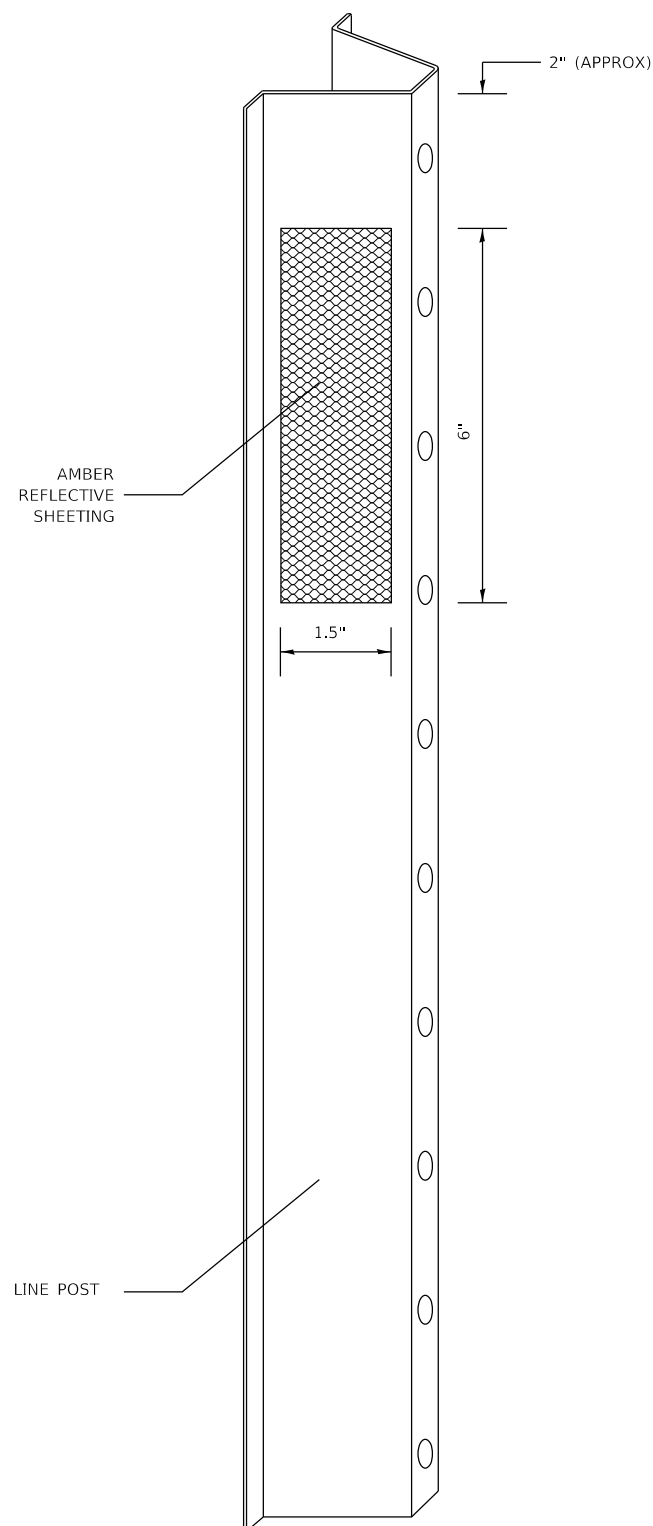
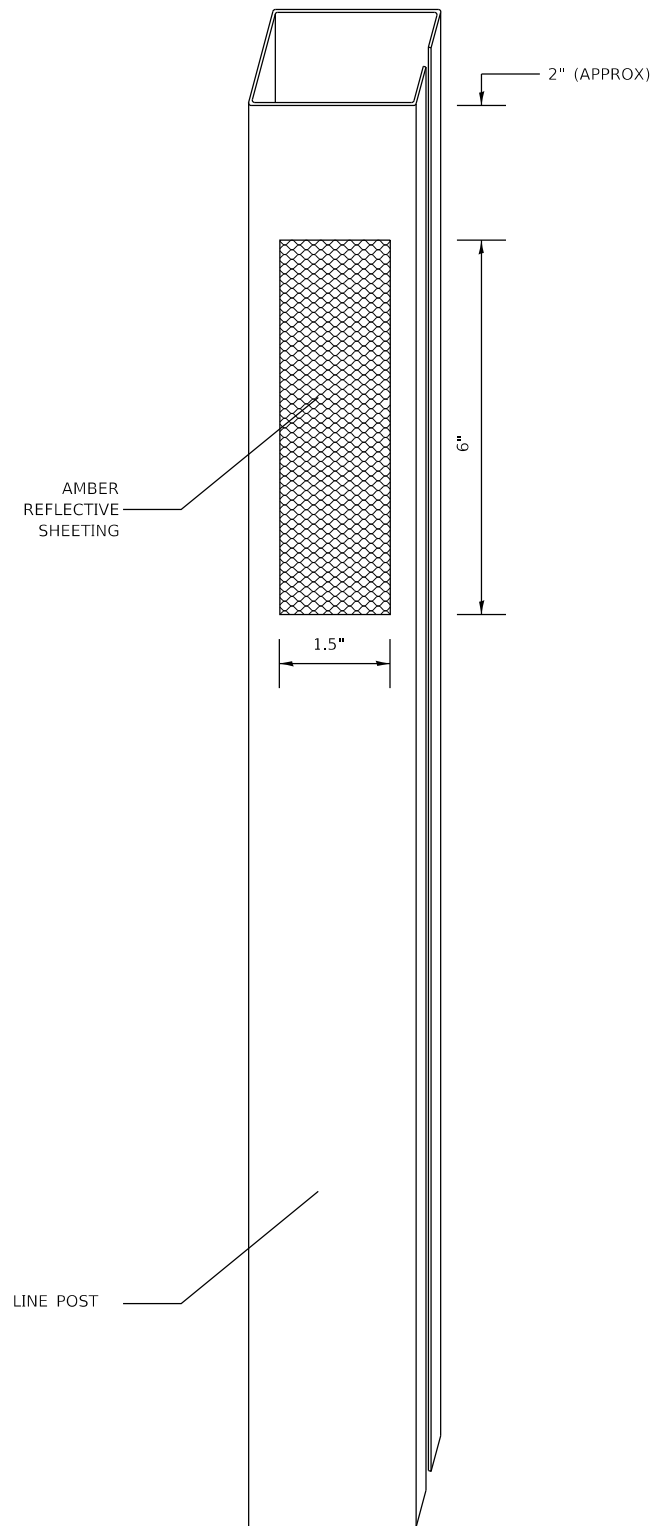
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PLOT DATE = 12/4/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: NTS SHEET 6 OF 15 SHEETS STA. TO STA.

DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	243
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



NOTES:

MATERIAL: THE MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 1090 AND 1091 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION REQUIREMENTS: THE REFLECTIVE SHEETING SHALL BE INSTALLED DIRECTLY ON THE CABLE POSTS. THE REFLECTIVE SHEETING SHALL BE INSTALLED AS SHOWN IN THE PLANS ON EVERY THIRD POST. (IN ORDER TO PROVIDE A SPACING OF 45'). THE SURFACE OF THE POST SHALL BE CLEANED OF ALL CONTAMINANTS PRIOR TO THE INSTALLATION OF THE REFLECTIVE SHEETING. THE SURFACE SHALL BE CLEANED USING A 5-8 PERCENT PHOSPHORIC ACID SOLUTION AND RINSED WITH CLEAN WATER OR AS RECOMMENDED BY THE MANUFACTURER OF THE REFLECTIVE SHEETING AND AS APPROVED BY THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR CABLE GUARD MARKER.

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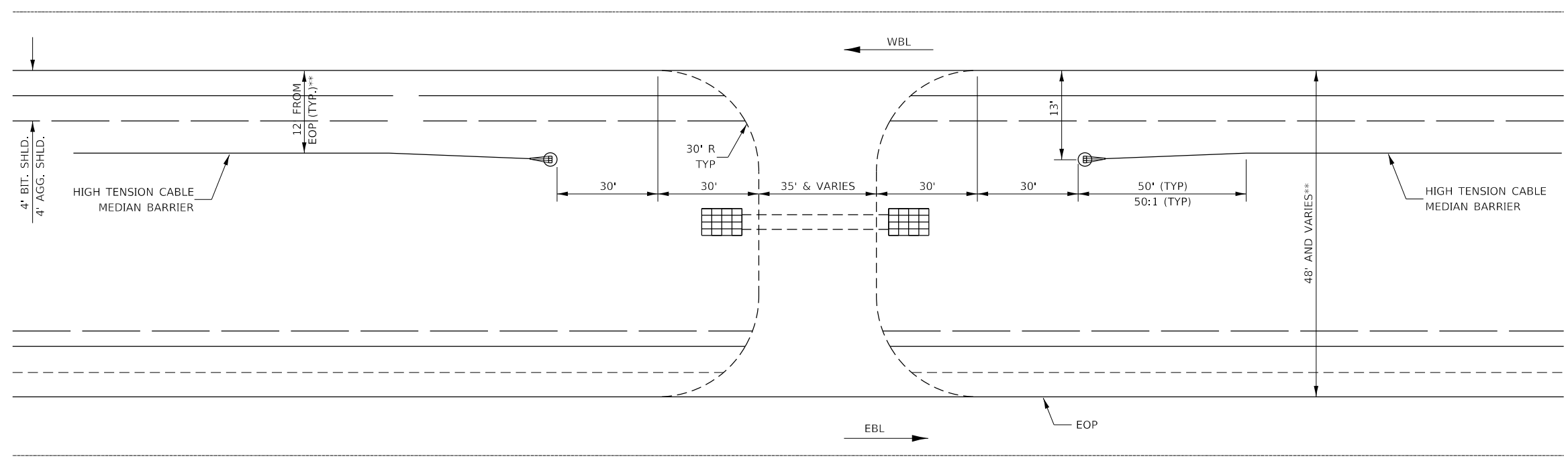
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE GUARDRAIL MARKER DETAIL**

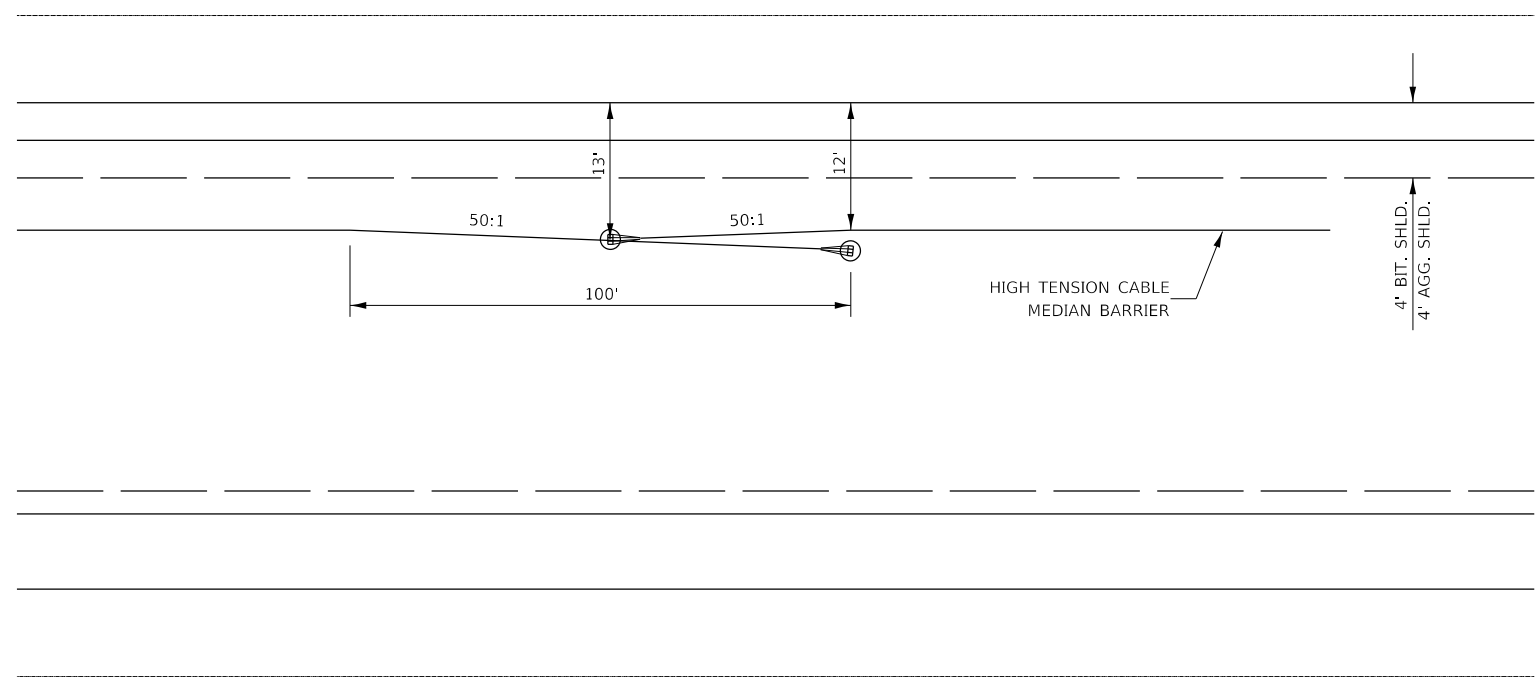
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	244
CONTRACT NO. 66F09			ILLINOIS FED. AID PROJECT	

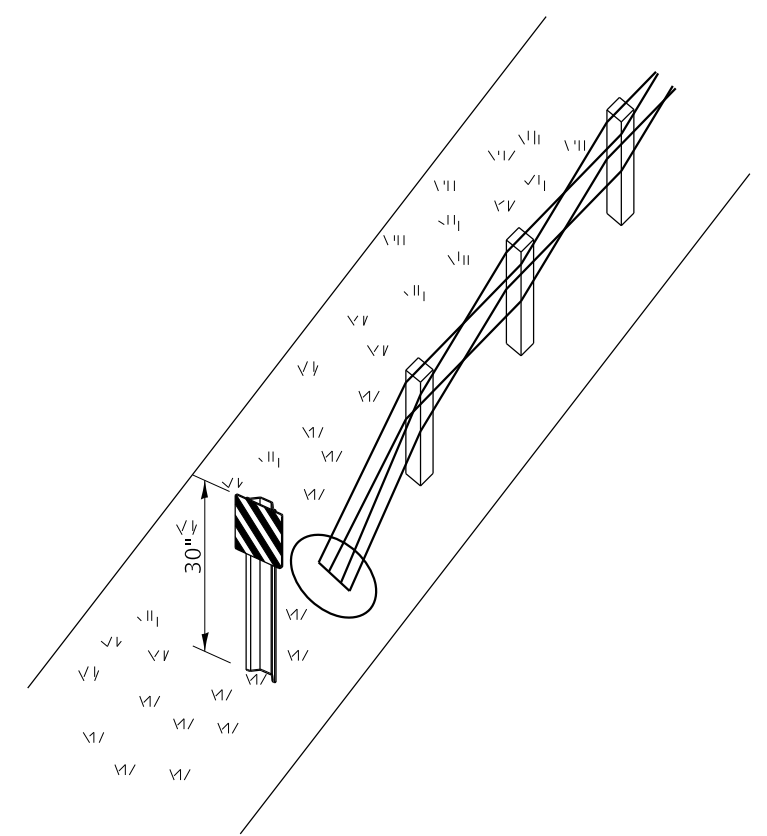


**MAINTENANCE CROSSOVERS**

STA 374+50  
 STA 452+10  
 STA 686+15



**HIGH TENSION CABLE BARRIER OVERLAP DETAIL**



**HTC MEDIAN BARRIER  
 POST MOUNTED TERMINAL MARKER DETAIL**

MODEL: det 3 details  
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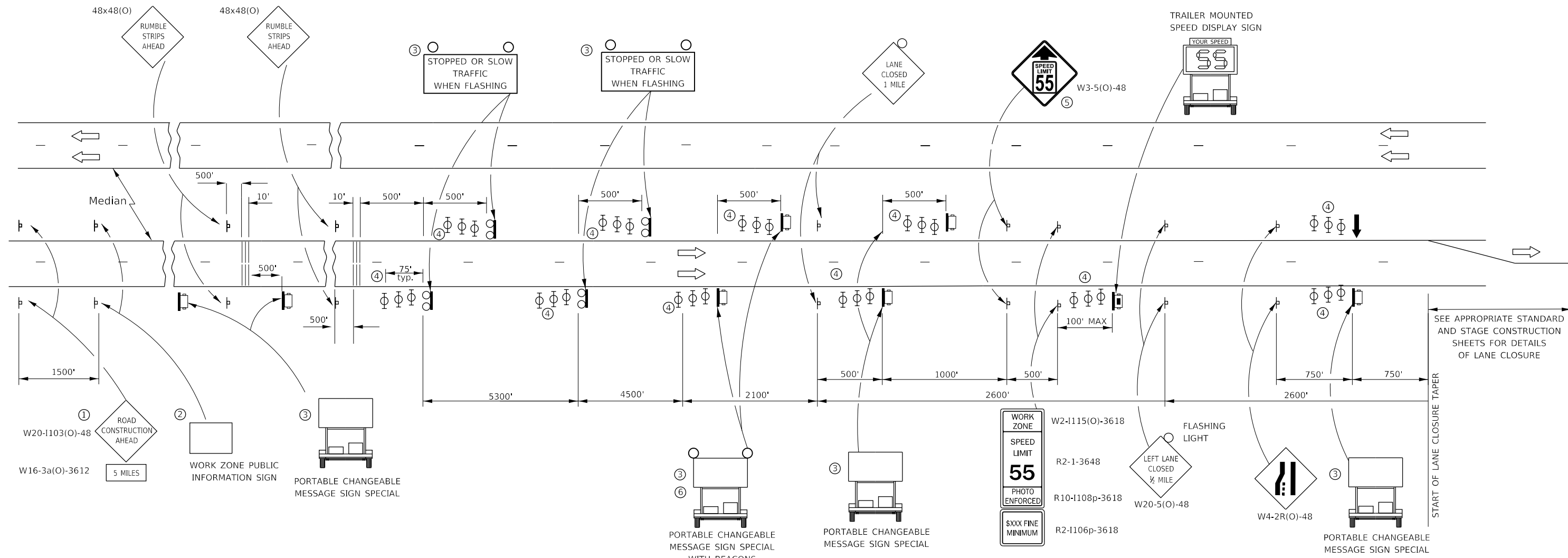


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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>			
SCALE: NTS	SHEET 8	OF 15 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	245
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



SEE APPROPRIATE STANDARD AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE

**NOTES:**

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ UNIT TO BE PAID FOR SEPARATELY. TO BE PLACED OUTSIDE OF EXISTING PAVED SHOULDER. ANY REQUIRED EARTHWORK INCLUDED IN THE COST OF THE UNIT.
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.
- ⑥ WHEN SHOWN, PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL SHALL HAVE EQUIVALENT FLASHING BEACONS AS REAL TIME TRAFFIC CONTROL SIGNING. COST INCLUDED IN PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL.

**LEGEND:**

- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL (PCMS)
- SIGN
- REAL-TIME TRAFFIC CONTROL SIGNING
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT.
- TEMPORARY RUMBLE STRIPS (SPECIAL). SEE DETAIL & SPECIAL PROVISION
- SPEED DISPLAY TRAILER

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE A LANE CLOSURE IS IN PLACE LONGER THAN ONE CONSECUTIVE WEEK OR INCLUDING A WEEKEND OR HOLIDAY AS DESCRIBED IN KEEPING ROADS OPEN TO TRAFFIC.

THE FIRST TWO SIGNS ARE STATIONARY. THE OTHER SIGNS, ARROWBOARDS AND MESSAGE BOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

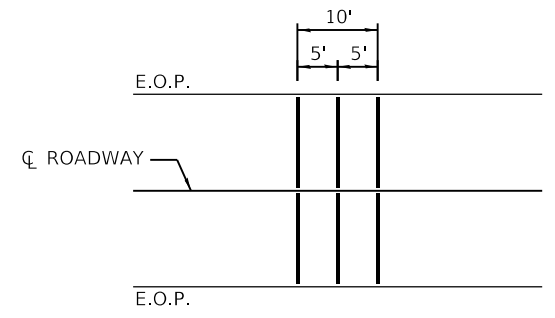
SEE SPECIAL PROVISIONS FOR SMART TRAFFIC MONITORING SYSTEM, PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL AND CONTROL OF WORK.

THIS DETAIL APPLIES TO BOTH NB AND SB APPROACHES TO THE WORK ZONE.

WHEN THE RIGHT LANE IS CLOSED, RIGHT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR LEFT LANE CLOSED SIGNS.

WHEN EXISTING SIGNS, POLES, AND OTHER ITEMS CONFLICT WITH LOCATING THE EQUIPMENT SHOWN, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DECONFLICT EQUIPMENT PLACEMENT.

ALL ORANGE SIGN SHEETING SHALL BE FLOURESCENT ORANGE MATERIAL.



**TEMPORARY RUMBLE STRIP (SPECIAL)**

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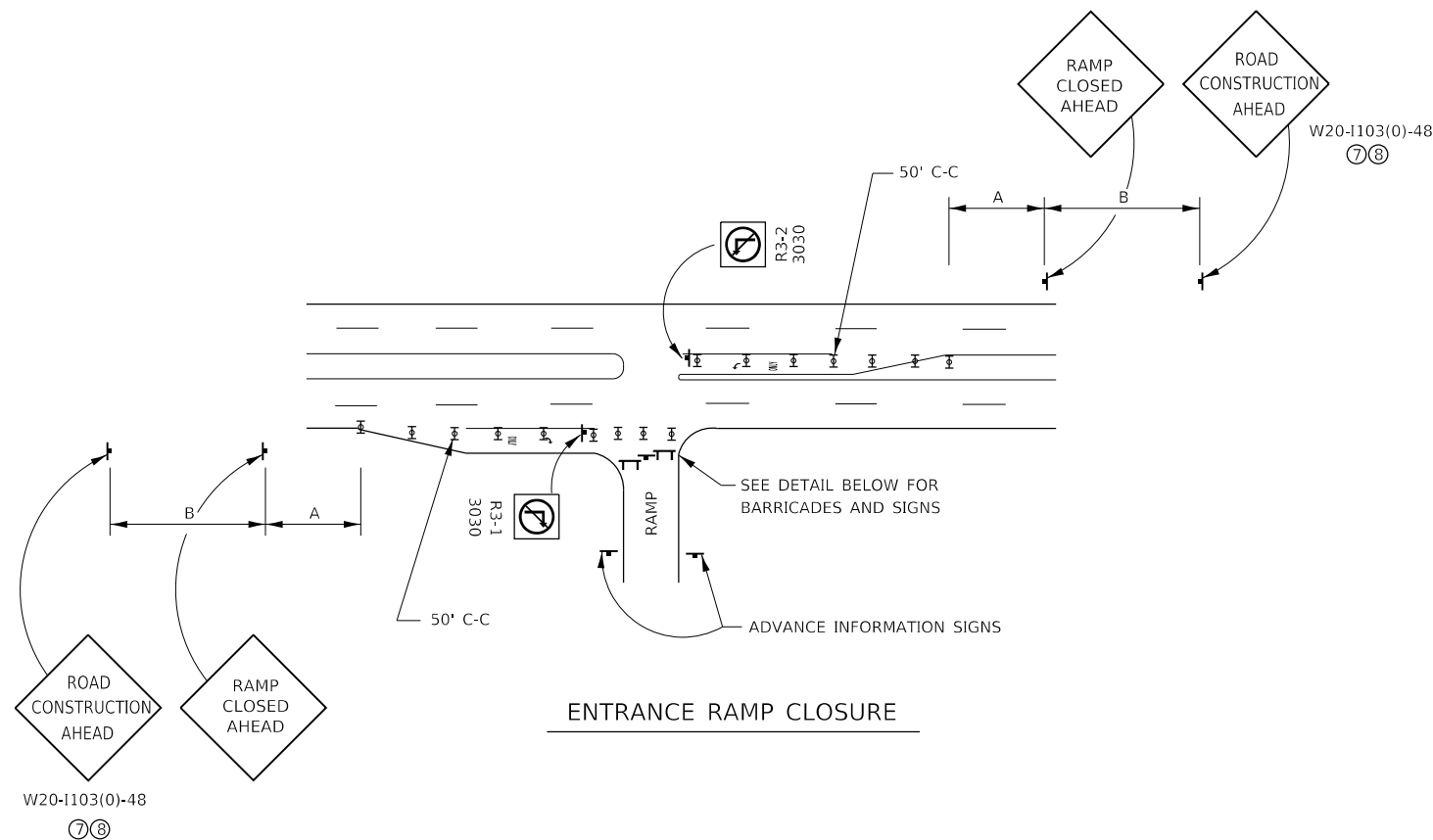
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SMART WORK ZONE DETAIL**

SCALE: NTS SHEET 9 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

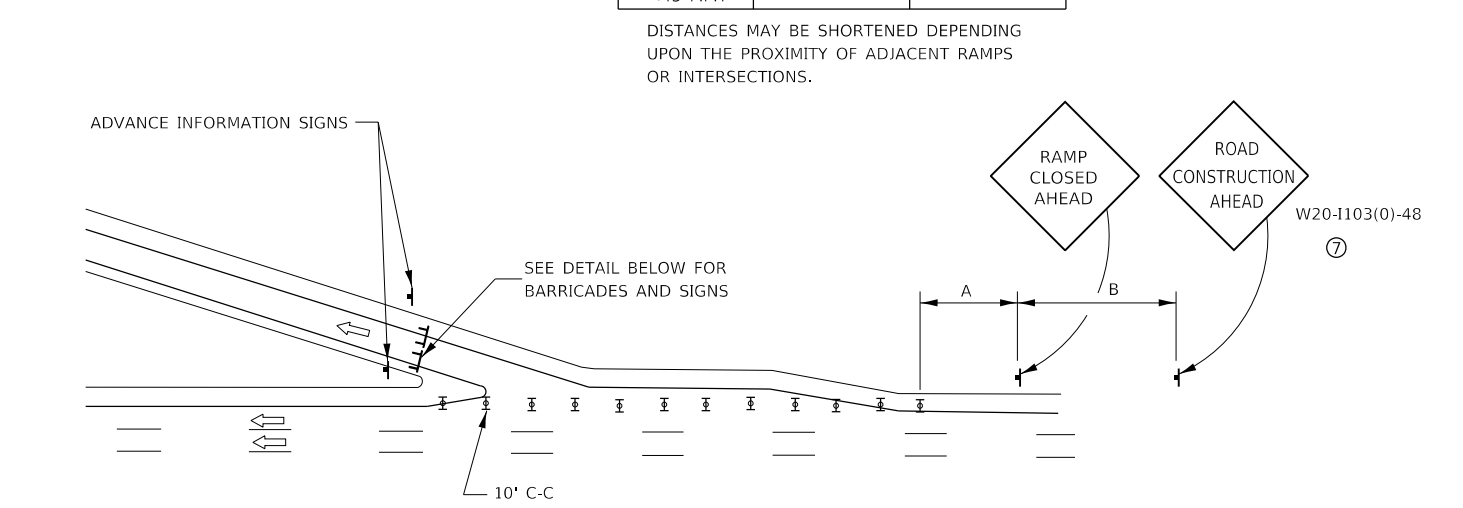


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000'	1500'
EXPRESSWAY ≤24 HOURS	500'	500'
ARTERIAL ≥45 MPH	350'	350'
ARTERIAL <45 MPH	150'	150'

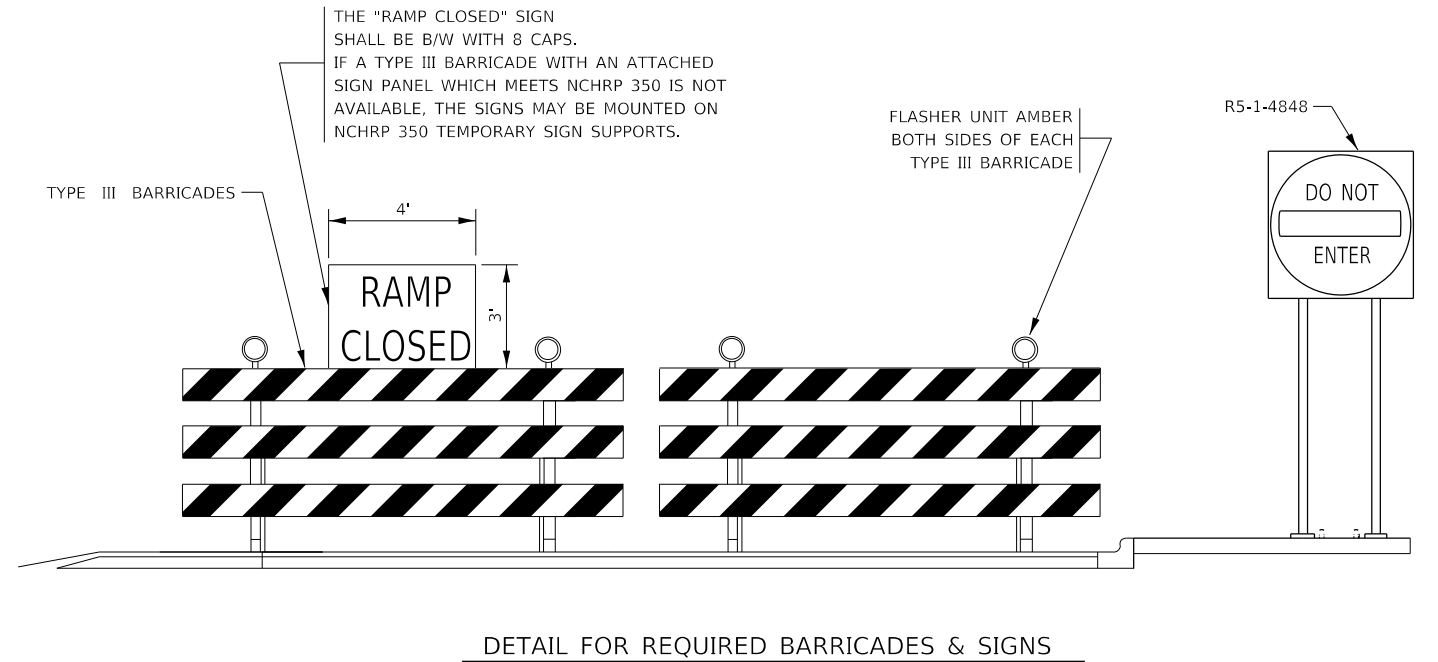
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

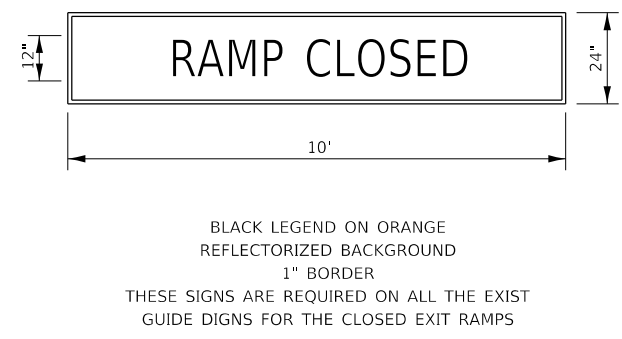
**SYMBOLS**

- ☒ DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ☒ TYPE III BARRICADE WITH FLASHING LIGHT

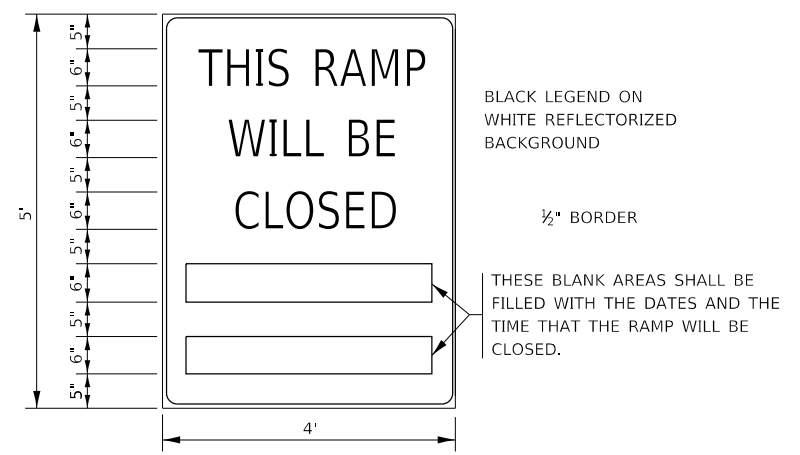


DETAIL FOR REQUIRED BARRICADES & SIGNS

**RAMP CLOSURE ADVANCE WARNING SIGN**



**RAMP CLOSURE ADVANCE INFORMATION SIGN**



**GENERAL NOTES:**

- ① STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ② A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ③ ALL ROUTE MARKERS AND SIGN ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ④ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701451.
- ⑤ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF OPERATIONS IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑥ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑦ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑧ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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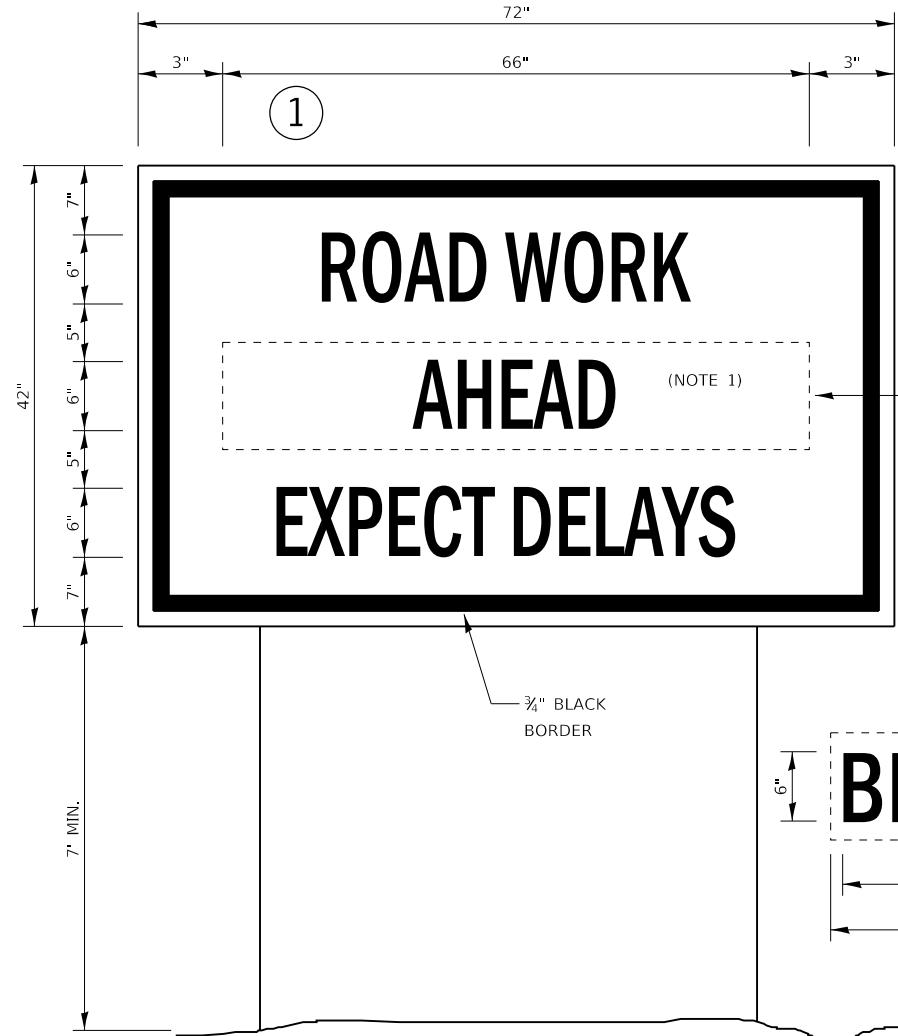
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FREWAY ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS

SCALE: NTS SHEET 10 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	247
CONTRACT NO. 66F09			ILLINOIS FED. AID PROJECT	



NOTE 1 - ON US 45/US 52  
SIGN REPLACE AHEAD  
WITH "ON I-57"

USE APPROPRIATE  
MONTH AND DATE  
FOR CONTRACT

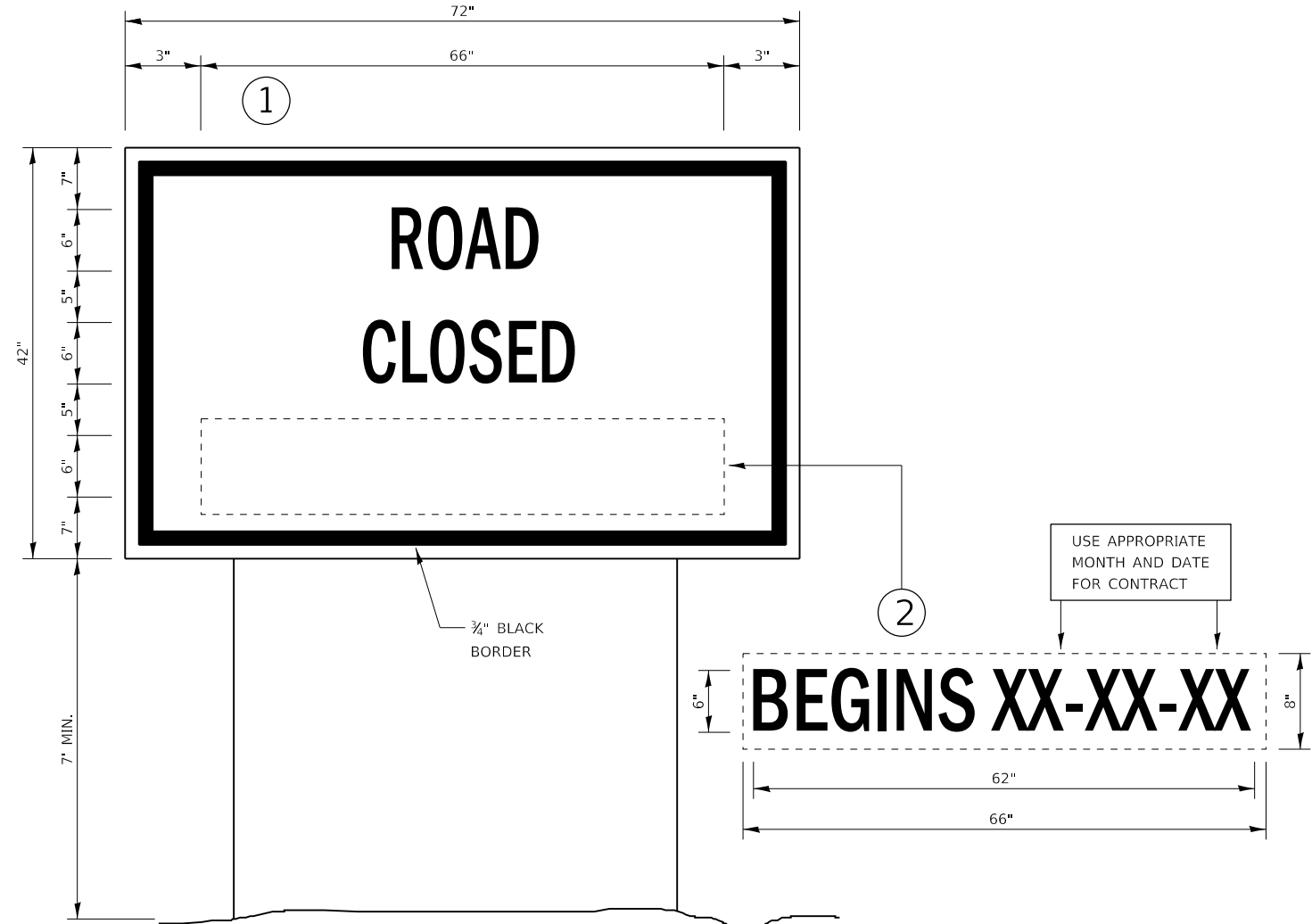
**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

**LOCATIONS:**

1. US 45/US 52 NORTH OF INTERCHANGE
2. US 45/US 52 SOUTH OF INTERCHANGE
3. RIVER ROAD EAST
4. RIVER ROAD WEST



USE APPROPRIATE  
MONTH AND DATE  
FOR CONTRACT

**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

**LOCATIONS:**

1. OTTO ROAD EAST
2. OTTO ROAD WEST

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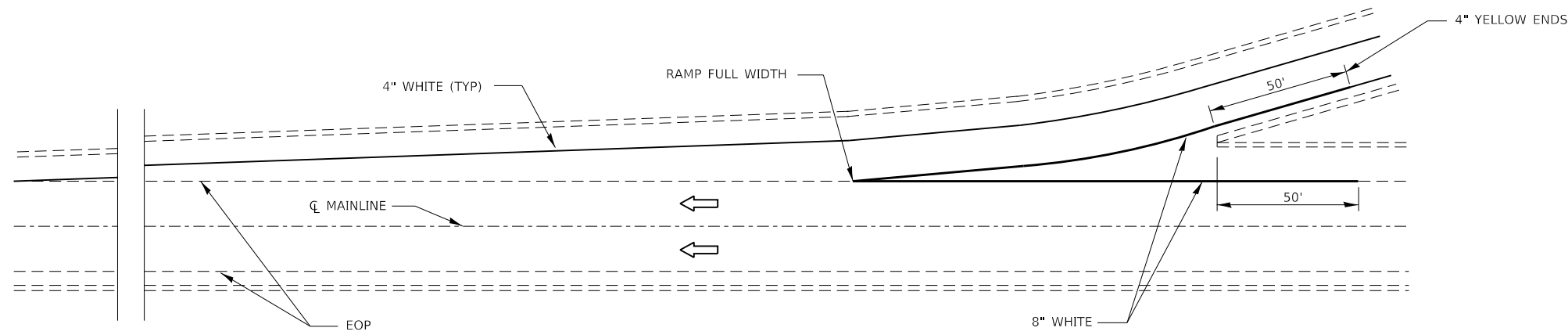
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

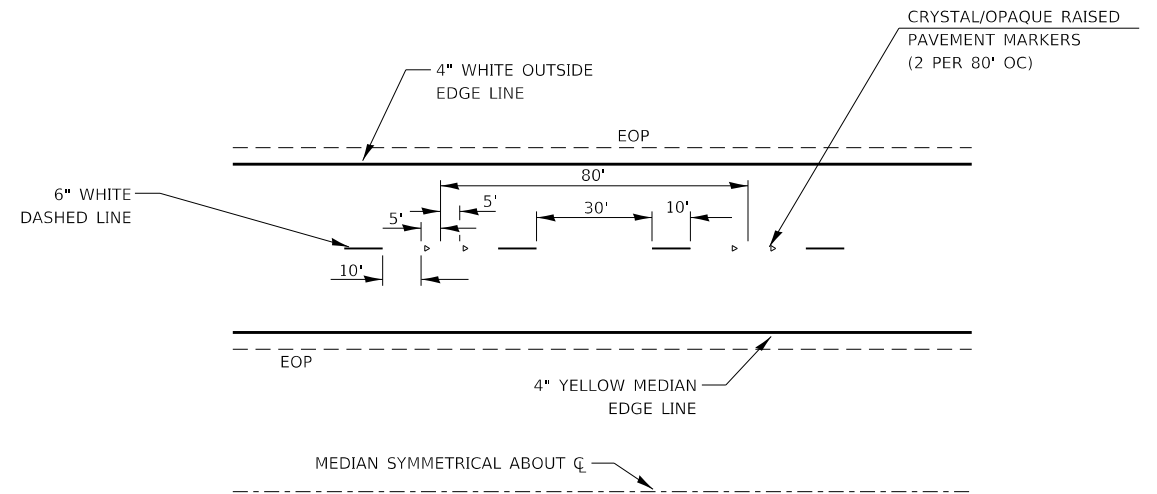
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	248
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

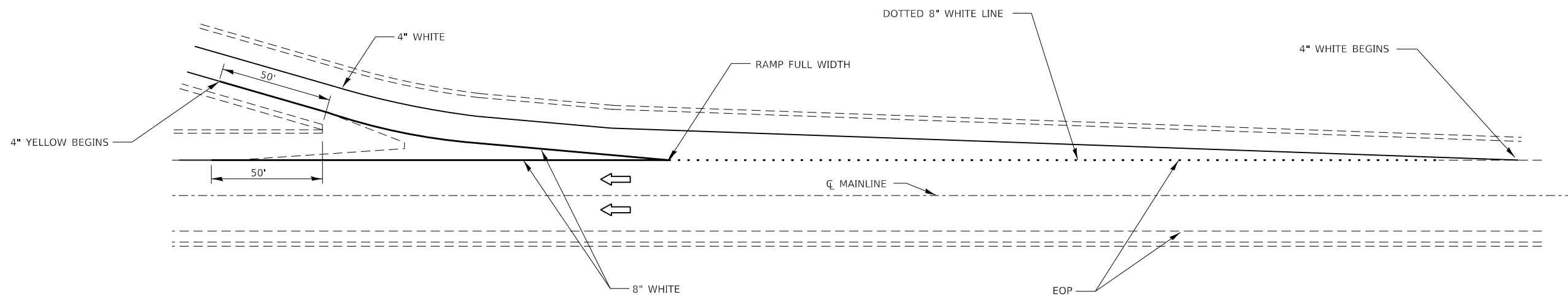




**TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS**



**TYPICAL PAVEMENT MARKINGS**



**TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS**

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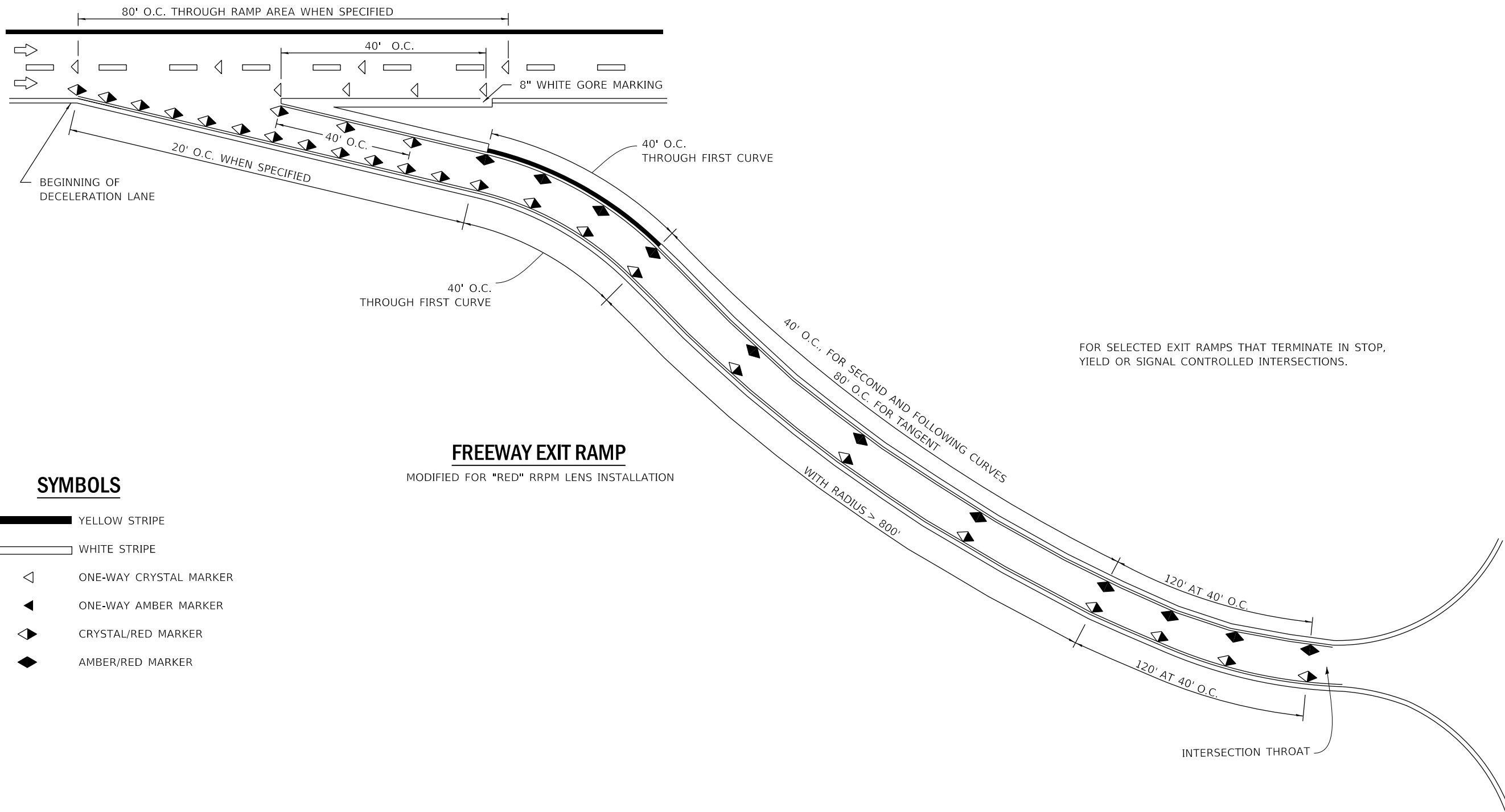
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**







SCALE: NTS SHEET 12 OF 15 SHEETS STA. TO STA.

**DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	249
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



### SYMBOLS

-  YELLOW STRIPE
-  WHITE STRIPE
-  ONE-WAY CRYSTAL MARKER
-  ONE-WAY AMBER MARKER
-  CRYSTAL/RED MARKER
-  AMBER/RED MARKER

### FREEWAY EXIT RAMP

MODIFIED FOR "RED" RRPM LENS INSTALLATION

MODEL det 3 details  
FILE NAME: C:\Users\j1111111111\OneDrive\Documents\Survey\2020\CAD\_Sheets\0366F09-sheets\13.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE = NTS	DRAWN - NV	REVISED -
PLOT DATE = 12/4/2020	CHECKED -	REVISED -
	DATE -	REVISED -

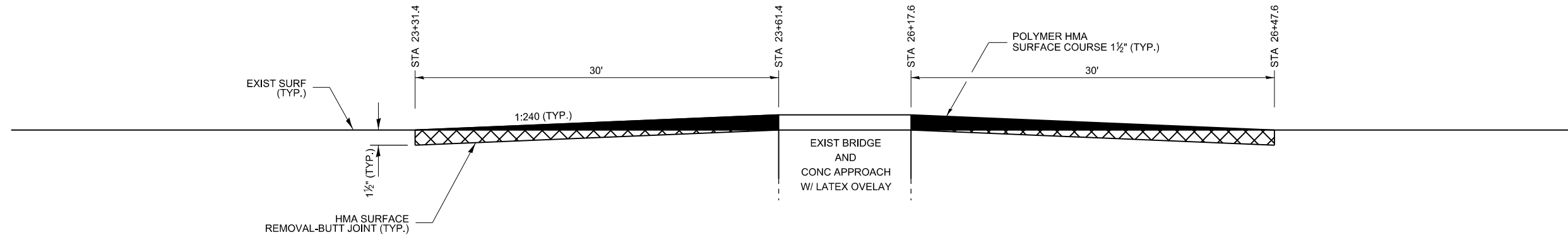
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

#### DETAILS

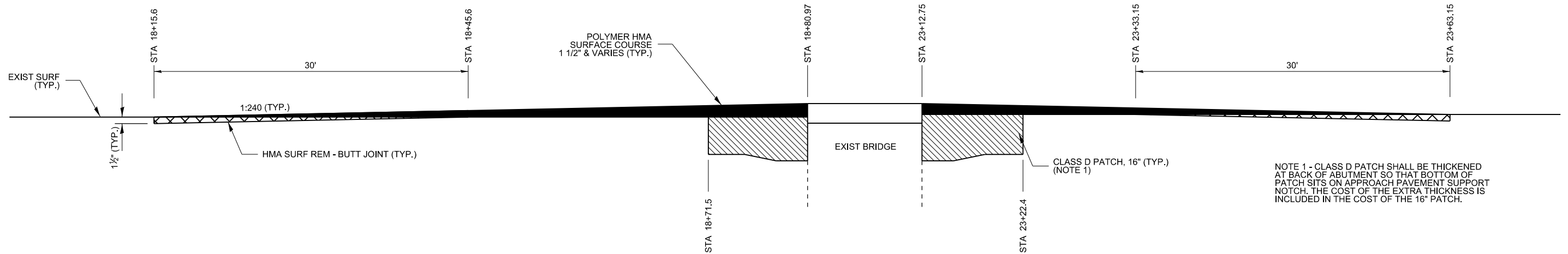
SCALE: NTS SHEET 13 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	250
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F09	





**BUTT JOINT AND RESURFACING  
AT RIVER ROAD BRIDGE (SN 046-0113)**



**BUTT JOINT AND RESURFACING  
AT OTTO ROAD BRIDGE (SN 046-0089)**

NOTE 1 - CLASS D PATCH SHALL BE THICKENED AT BACK OF ABUTMENT SO THAT BOTTOM OF PATCH SITS ON APPROACH PAVEMENT SUPPORT NOTCH. THE COST OF THE EXTRA THICKNESS IS INCLUDED IN THE COST OF THE 16" PATCH.

MODEL: det 3 details  
FILE: Model - 046-0113-08-57-Kankakee-County-Survey-D266F09-Consultant-Data\Chamlin\_2020\CAD-Sheets\0366F09-sheets.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

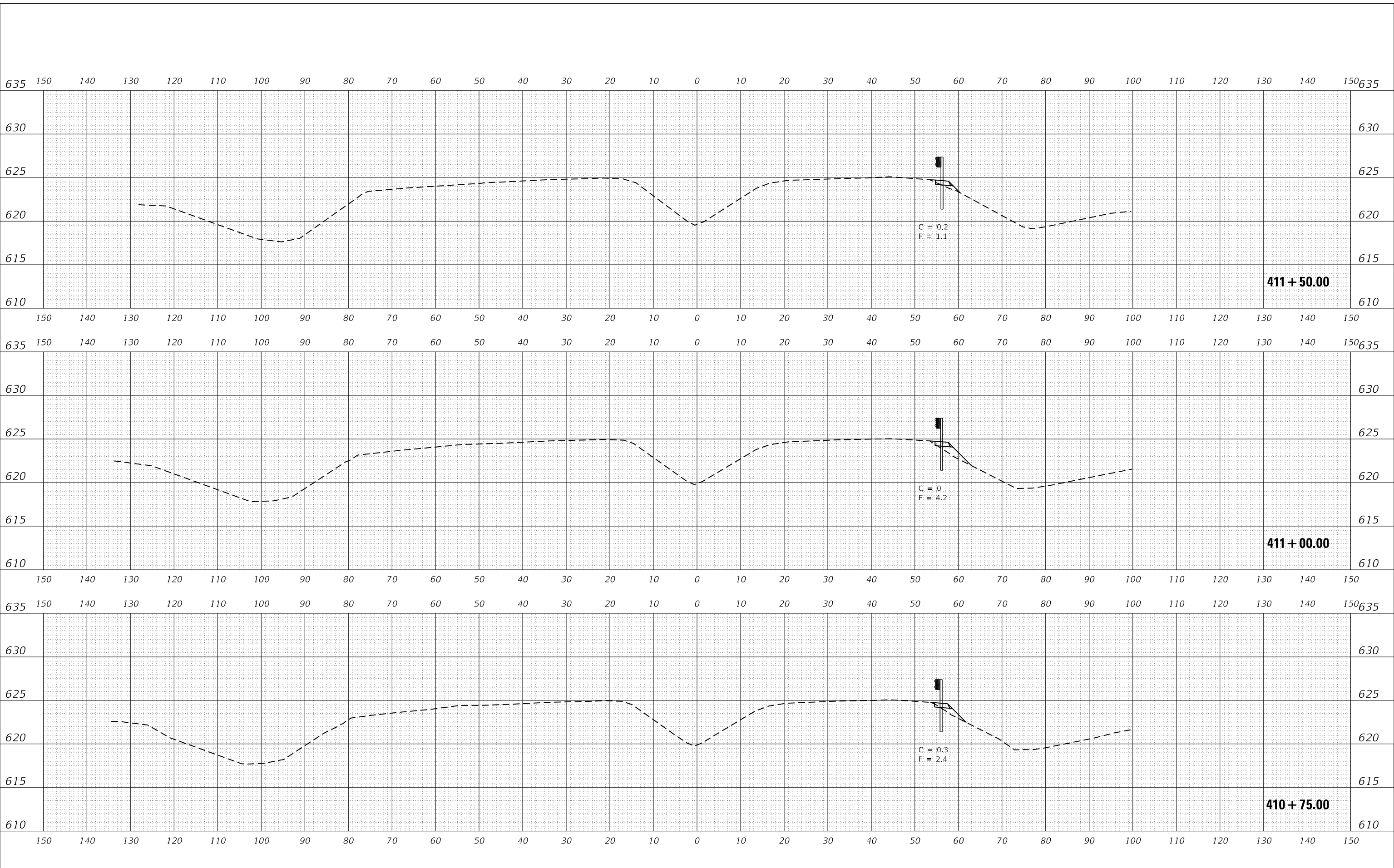
**DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	252
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: EXCL6  
 FILE NAME: G:\Users\11111287-084574nkakae-County\Survey\3368\91\Consultant Data\Chamlin\_2020\CAD\_Drawing\0368\0368\Section-57.dgn



USER NAME	= CHAMLIN
DESIGNED	- DJD
DRAWN	- NV
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	- DJD
DRAWN	- NV
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

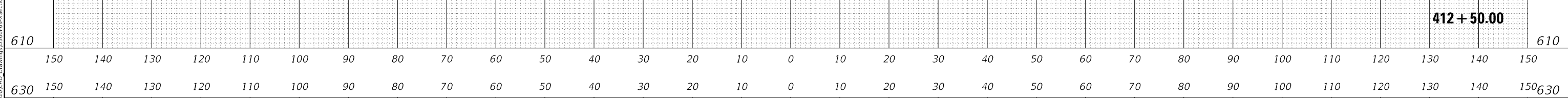
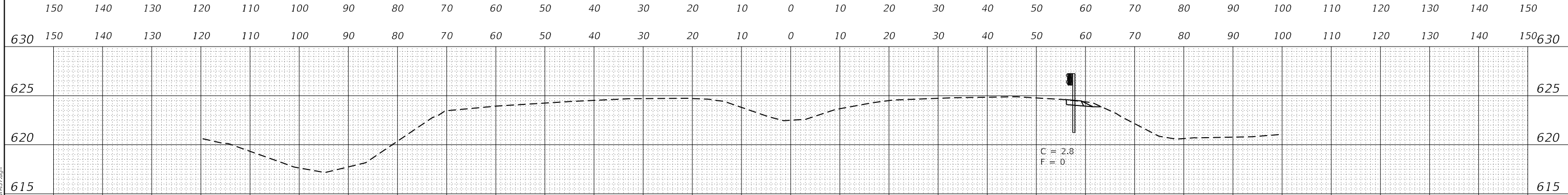
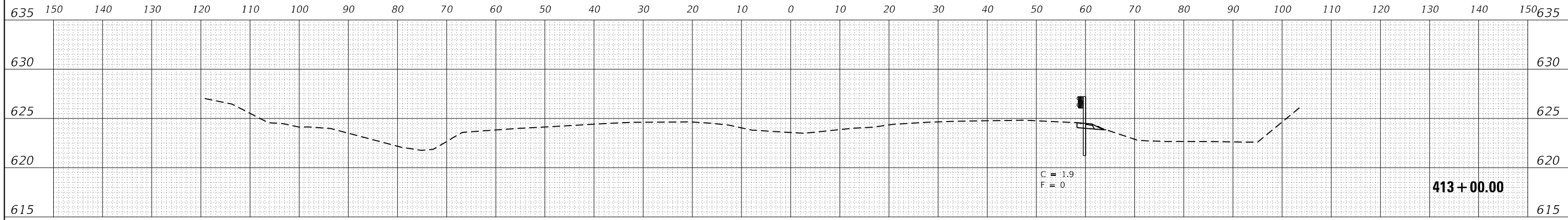
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10' SHEET 1 OF 26 SHEETS STA. 410+75.00 TO STA. 411+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	253
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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



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

MODEL: EXCL6  
 FILE NAME: G:\Users\11111287-084574nkakae-County\Survey\3368f091\Consultant Data\Chamlin\_2020\CAD\_Drawing\0368f091\Section-157.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE = 1"=10'	DRAWN - NV	REVISED -
PLOT DATE = 12/4/2020	CHECKED -	REVISED -
	DATE -	REVISED -

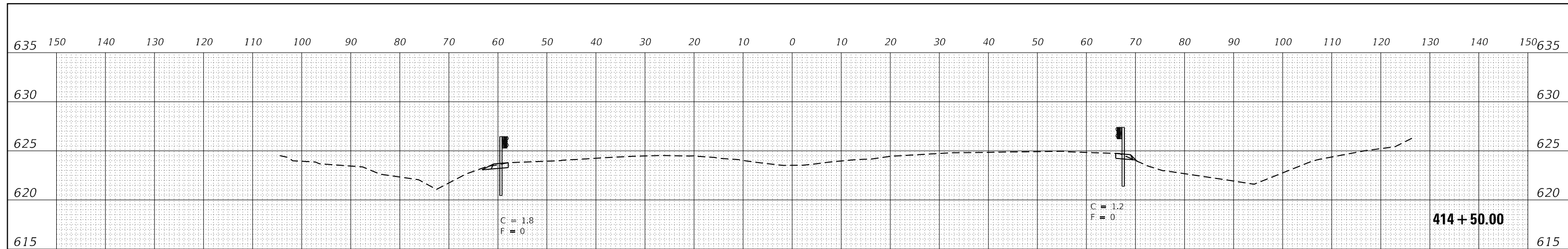
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

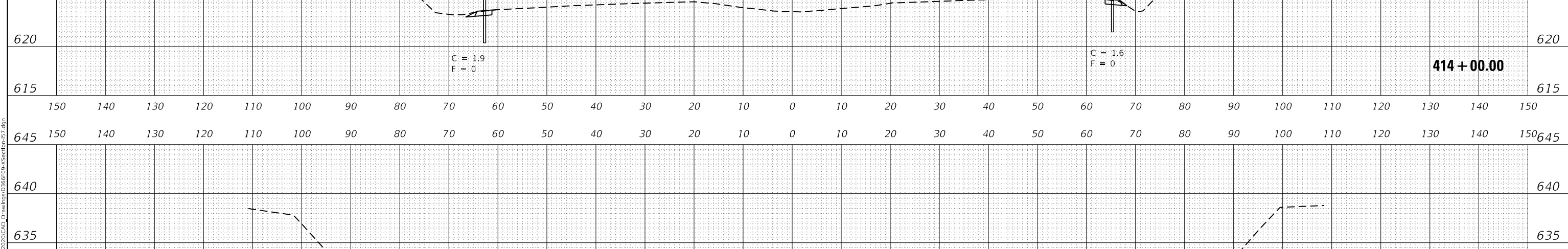
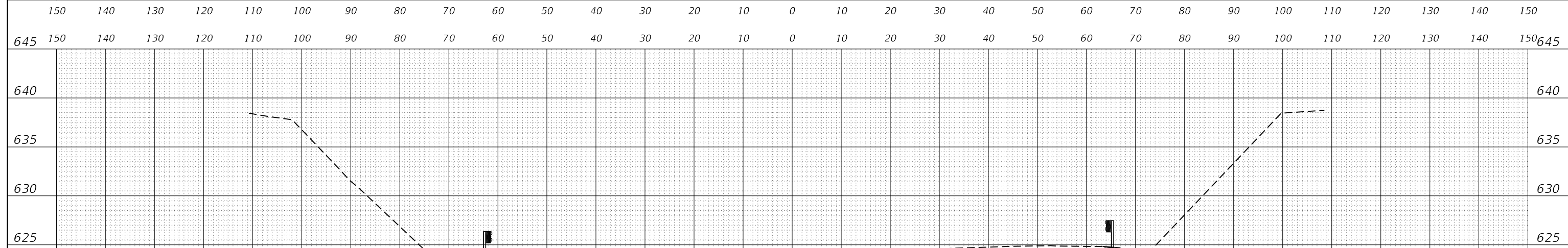
SCALE: 1"=10'    SHEET 2 OF 26 SHEETS    STA. 412+00.00 TO STA. 413+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	254
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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



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



MODEL: EXCL6  
 FILE NAME: G:\Users\11111287-0857-kankakee-county\Survey\_D368f091\Consultant\_Data\Chamlin\_2020\CAD\_Drawing\0368f091\Section-157.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=10'	SHEET 3	OF 26 SHEETS	STA. 413+50.00 TO STA. 414+50.00
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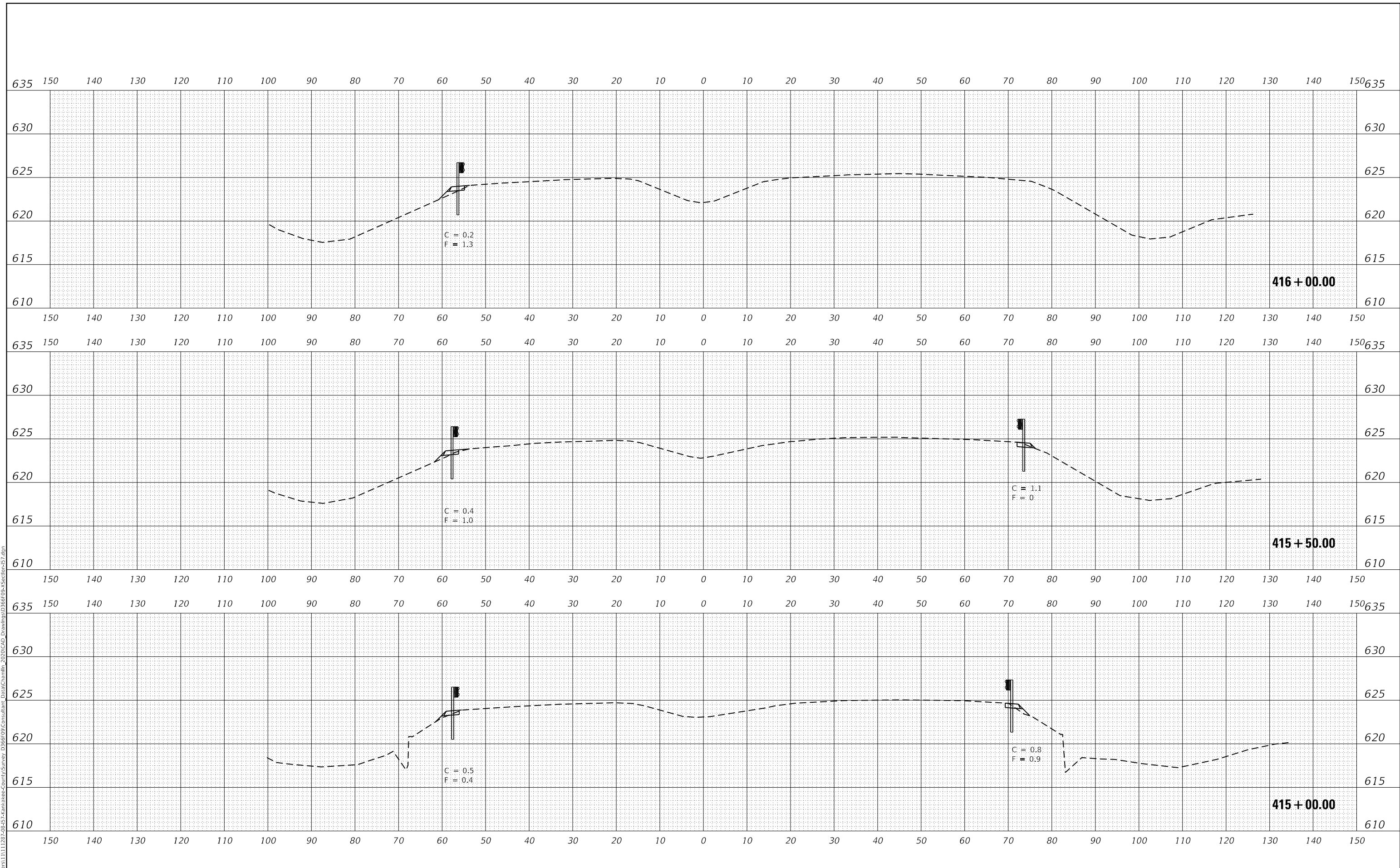
**CROSS SECTIONS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	255
				CONTRACT NO. 66F09
				ILLINOIS FED. AID PROJECT

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

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

MODEL: EXCL6  
 FILE NAME: G:\Users\1111287-0845-Kankakee-County\Survey\3368\091\Consultant\Drawings\0368\091\Section-57.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10'    SHEET 4 OF 26 SHEETS    STA. 415+00.00 TO STA. 416+00.00

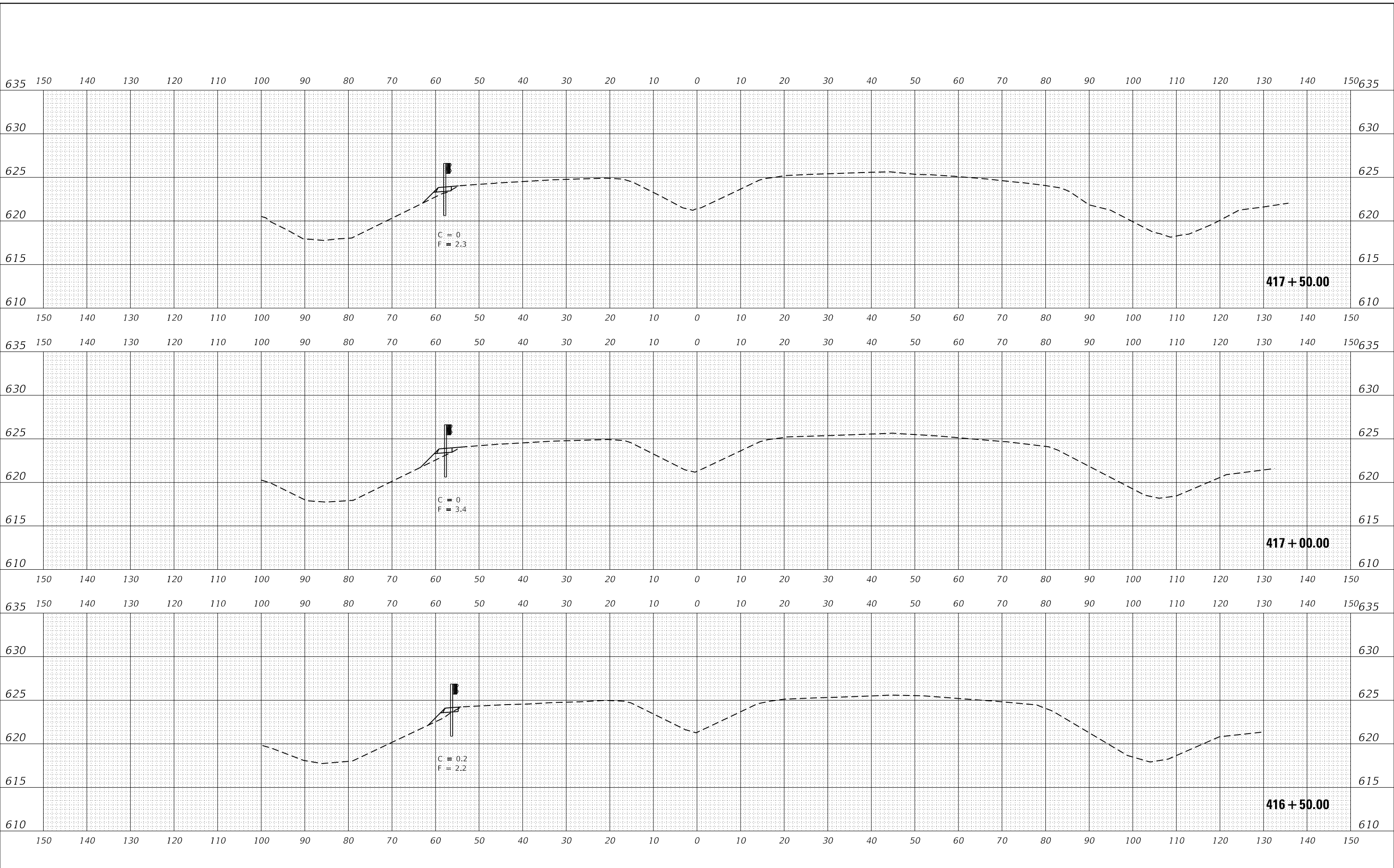
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	256
			CONTRACT NO. 66F09	
		ILLINOIS	FED. AID PROJECT	



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

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

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 FILE NAME: G:\Users\1111287-0845-Kankakee-County\Survey\3368\91\Consultant\Drawings\0368\08-X-Section-157.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

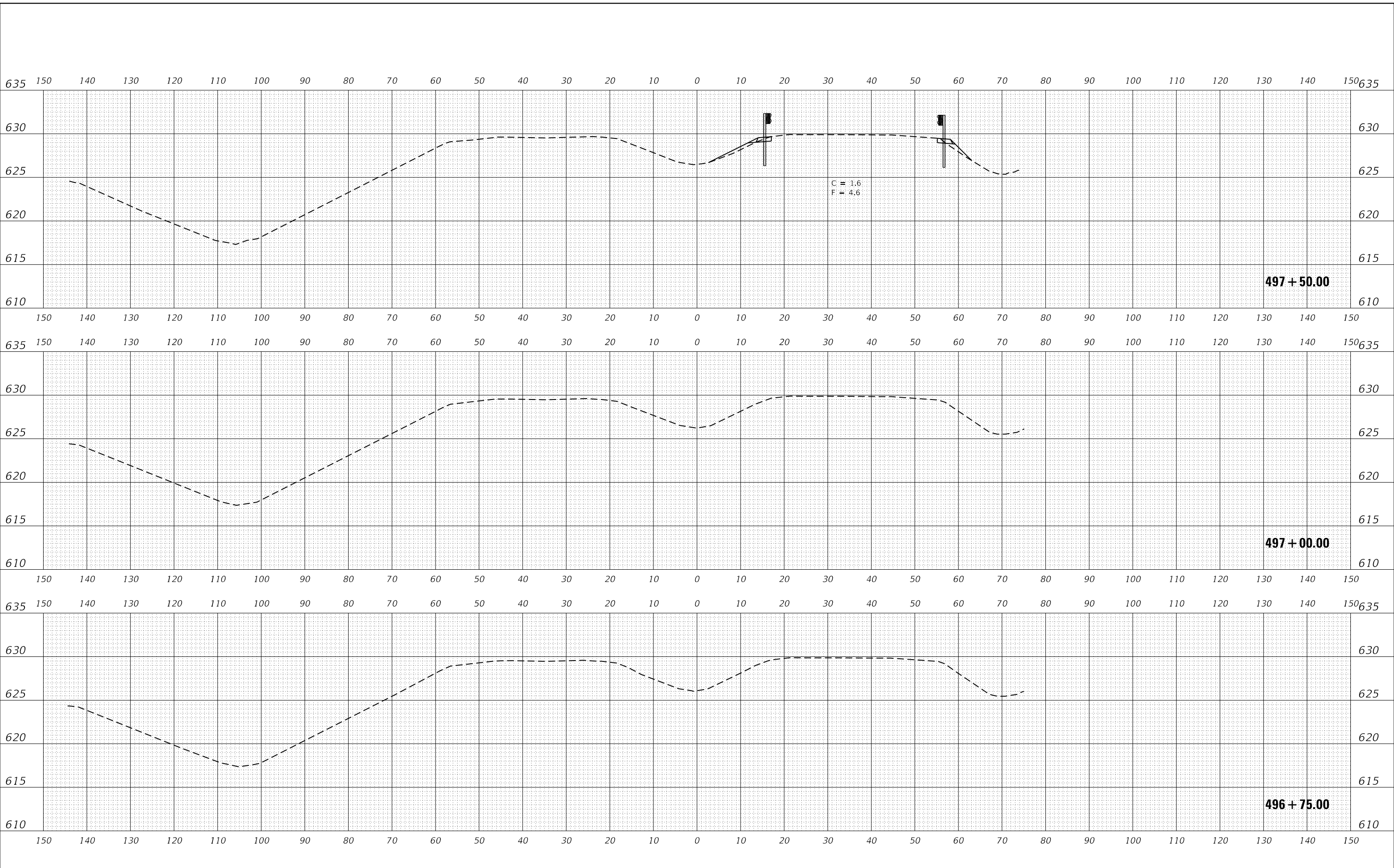
SCALE: 1"=10'      SHEET 5      OF 26 SHEETS      STA. 416+50.00 TO STA. 417+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	257
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = CHAMLIN  
 PLOT SCALE = 1"=10'  
 PLOT DATE = 12/4/2020

DESIGNED -	DJD	REVISED -	
DRAWN -	NV	REVISED -	
CHECKED -		REVISED -	
DATE -		REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

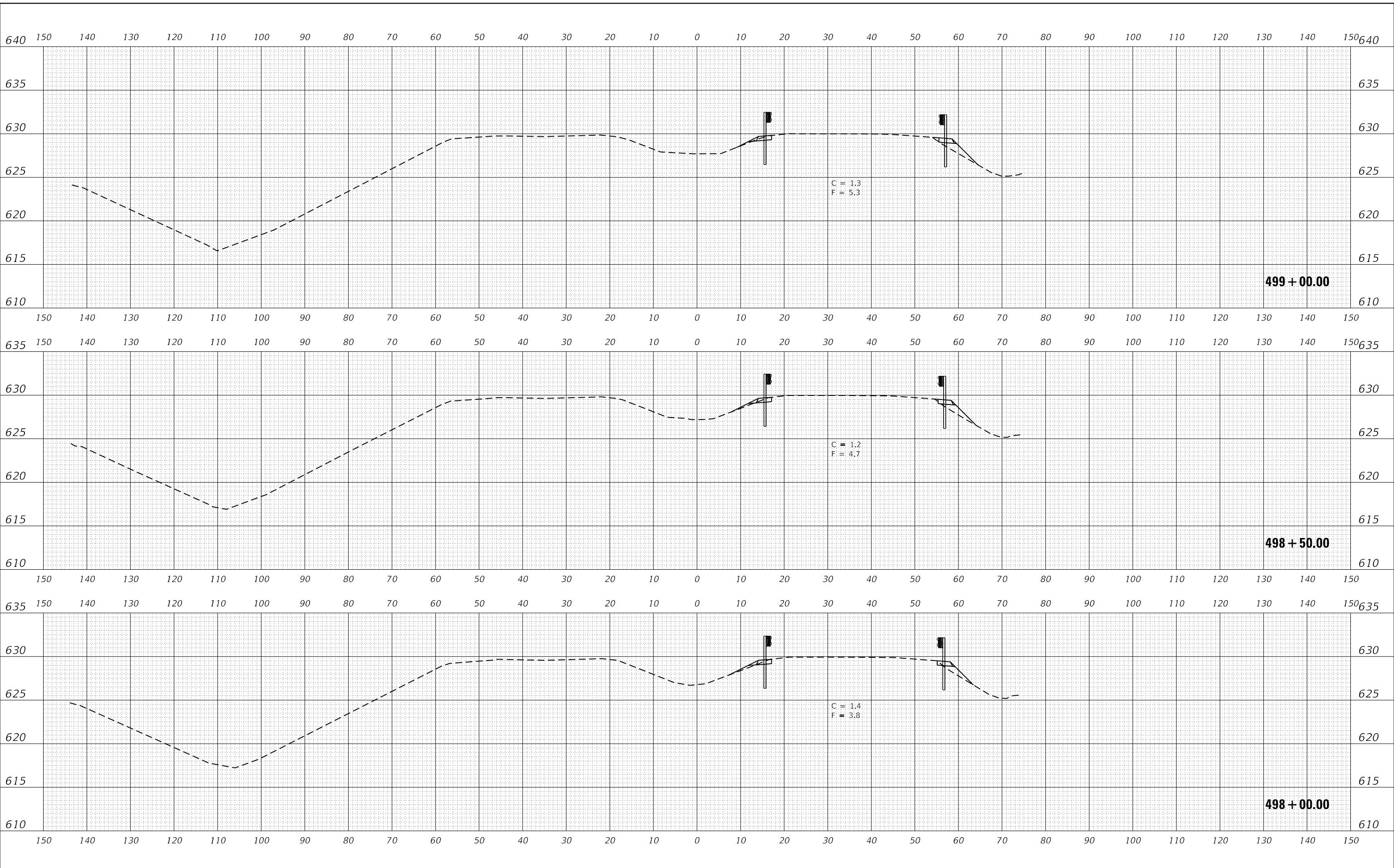
SCALE: 1"=10' SHEET 6 OF 26 SHEETS STA. 496+75.00 TO STA. 497+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	258
CONTRACT NO. 66F09				
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: EXCL6  
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USER NAME = CHAMLIN  
 PLOT SCALE = 1"=10'  
 PLOT DATE = 12/4/2020

DESIGNED - DJD  
 DRAWN - NV  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

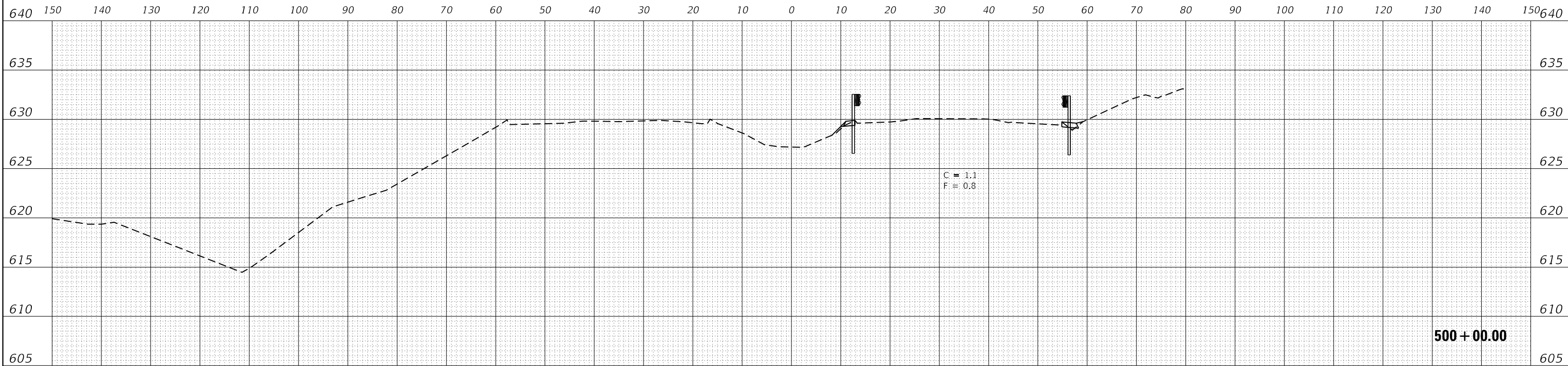
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

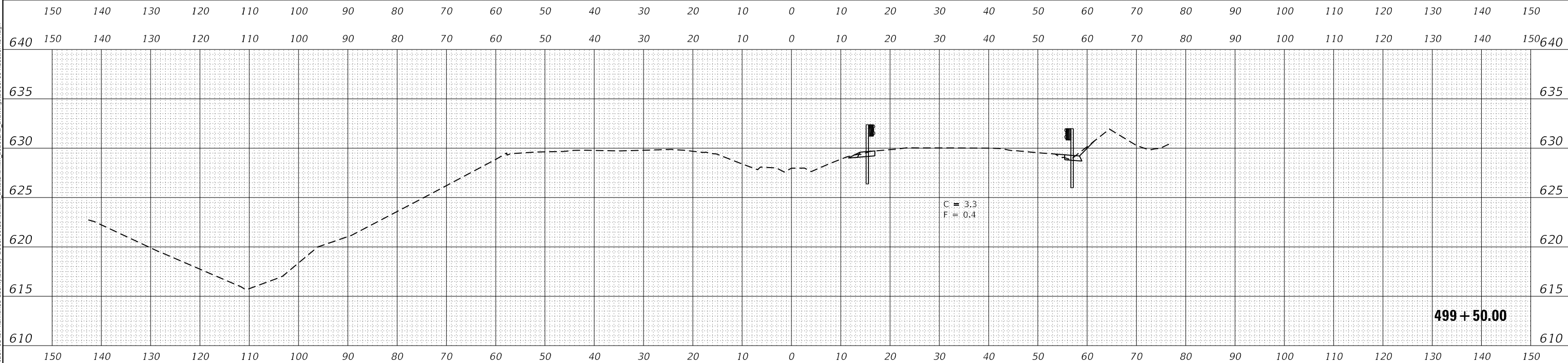
SCALE: 1"=10' SHEET 7 OF 26 SHEETS STA. 498+00.00 TO STA. 499+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	259
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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



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



MODEL: EXCL6  
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USER NAME = CHAMLIN
PLOT SCALE = 1"=10'
PLOT DATE = 12/4/2020

DESIGNED - DJD	REVISED -
DRAWN - NV	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

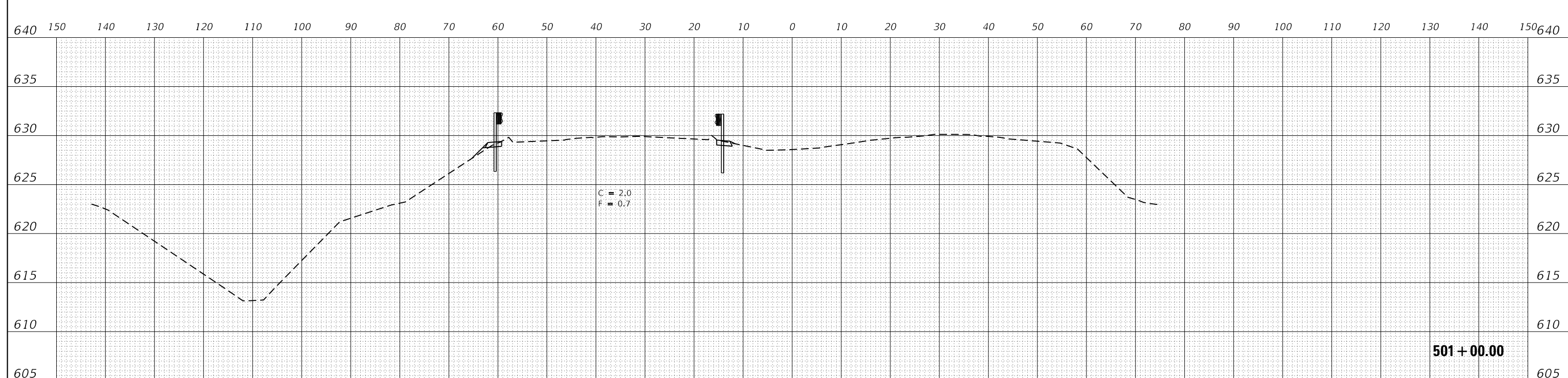
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

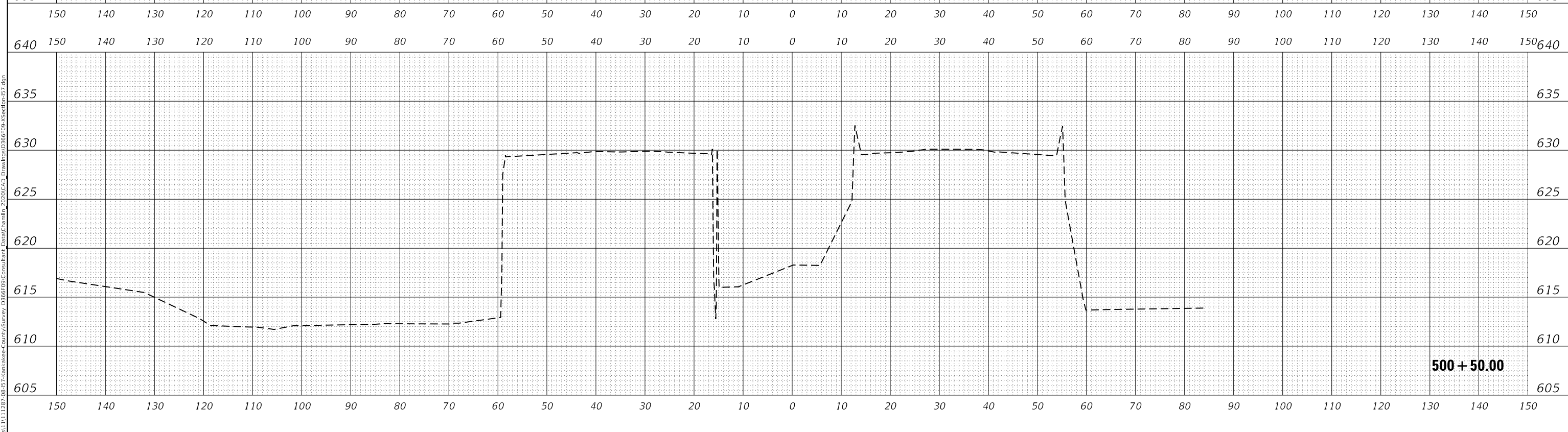
SCALE: 1"=10' SHEET 8 OF 26 SHEETS STA. 499+50.00 TO STA. 500+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	260
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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



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



MODEL: EXCL6  
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PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	-	DJD
DRAWN	-	NV
CHECKED	-	
DATE	-	

REVISED	-
REVISED	-
REVISED	-
REVISED	-

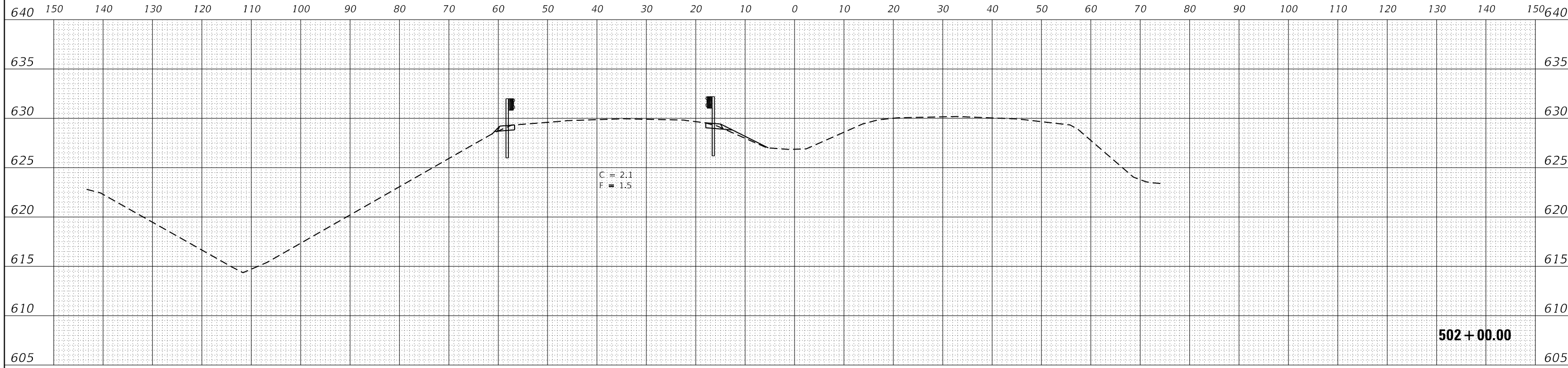
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

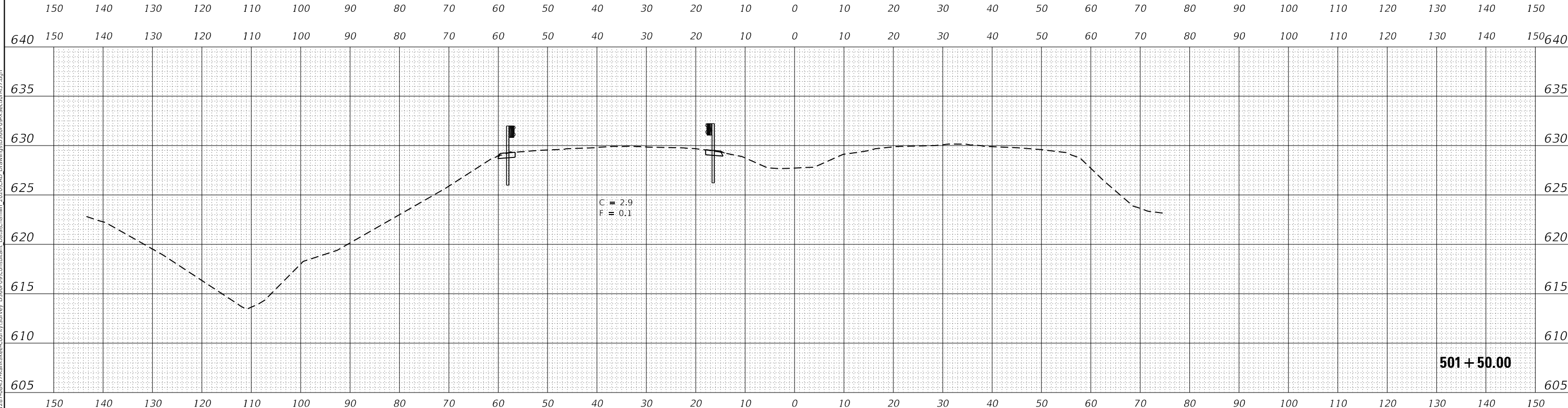
SCALE: 1"=10'      SHEET 9      OF 26      SHEETS      STA. 500+50.00      TO STA. 501+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	261
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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



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



MODEL: EXCL6  
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USER NAME	= CHAMLIN
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	-	DJD
DRAWN	-	NV
CHECKED	-	
DATE	-	

REVISED	-
REVISED	-
REVISED	-
REVISED	-

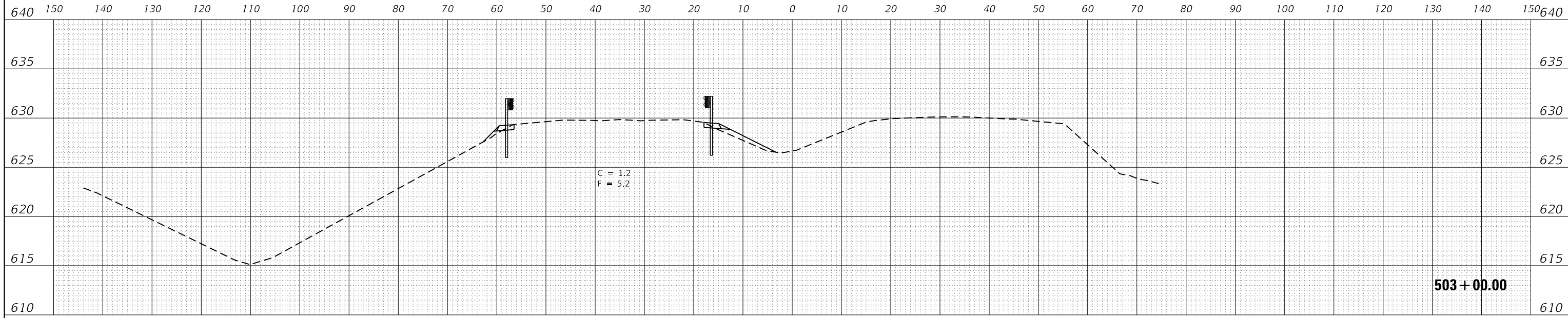
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

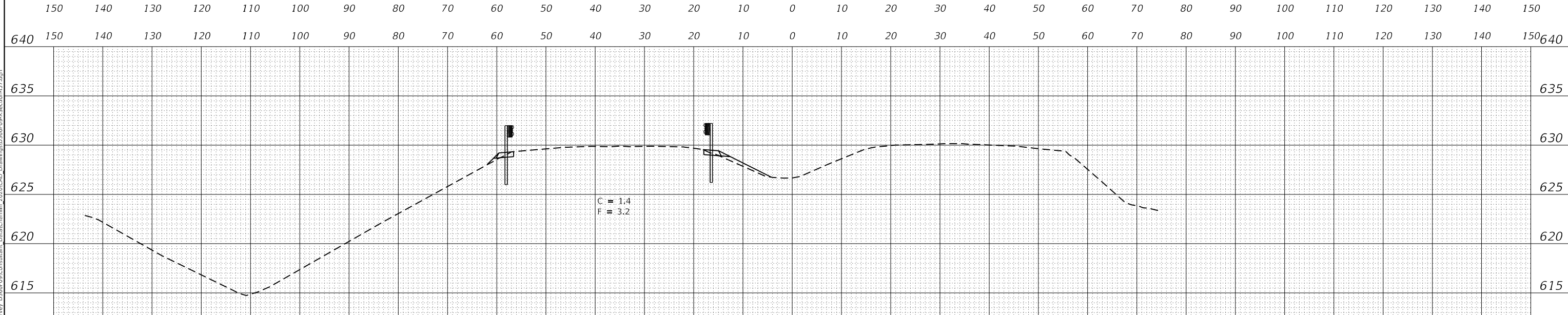
SCALE: 1"=10'      SHEET 10    OF 26    SHEETS    STA. 501+50.00    TO STA. 502+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	262
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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



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



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

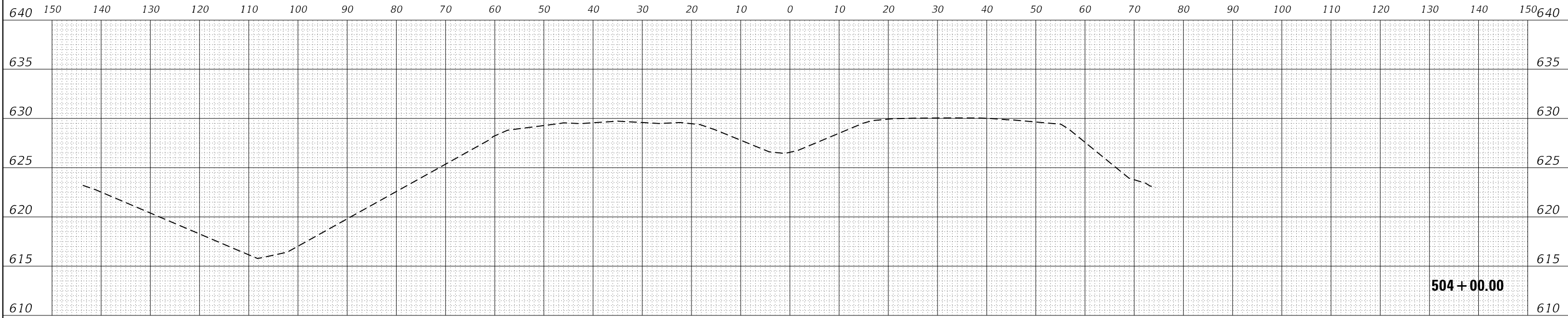
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10'      SHEET 11      OF 26      SHEETS      STA. 502+50.00 TO STA. 503+00.00

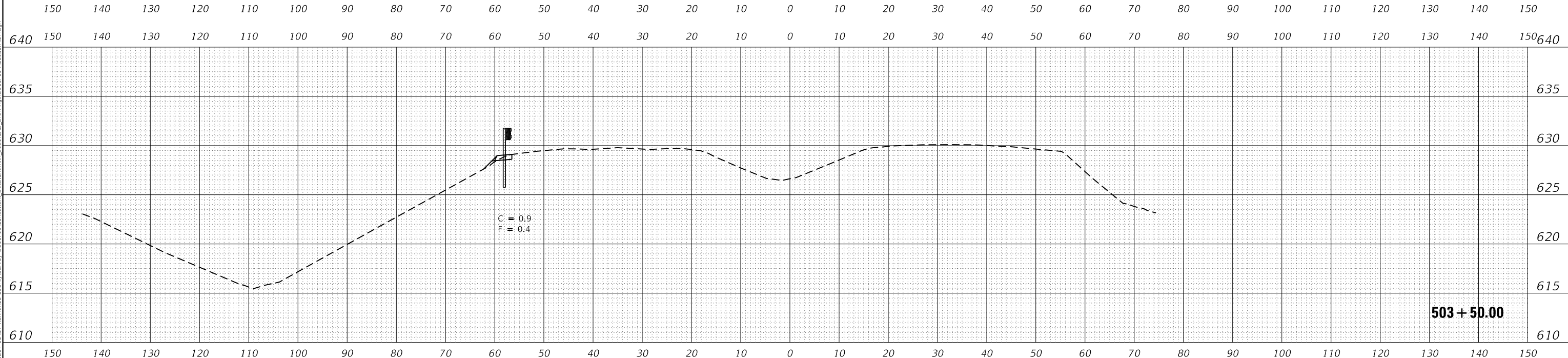
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	263
			CONTRACT NO. 66F09	
		ILLINOIS	FED. AID PROJECT	

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



504 + 00.00

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



C = 0.9  
F = 0.4

503 + 50.00

MODEL: EXCL6  
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USER NAME =	CHAMLIN
DESIGNED -	DJD
DRAWN -	NV
PLLOT SCALE =	1"=10'
PLLOT DATE =	12/4/2020

DESIGNED -	DJD	REVISED -	
DRAWN -	NV	REVISED -	
CHECKED -		REVISED -	
DATE -		REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10' SHEET 12 OF 26 SHEETS STA. 503+50.00 TO STA. 504+00.00

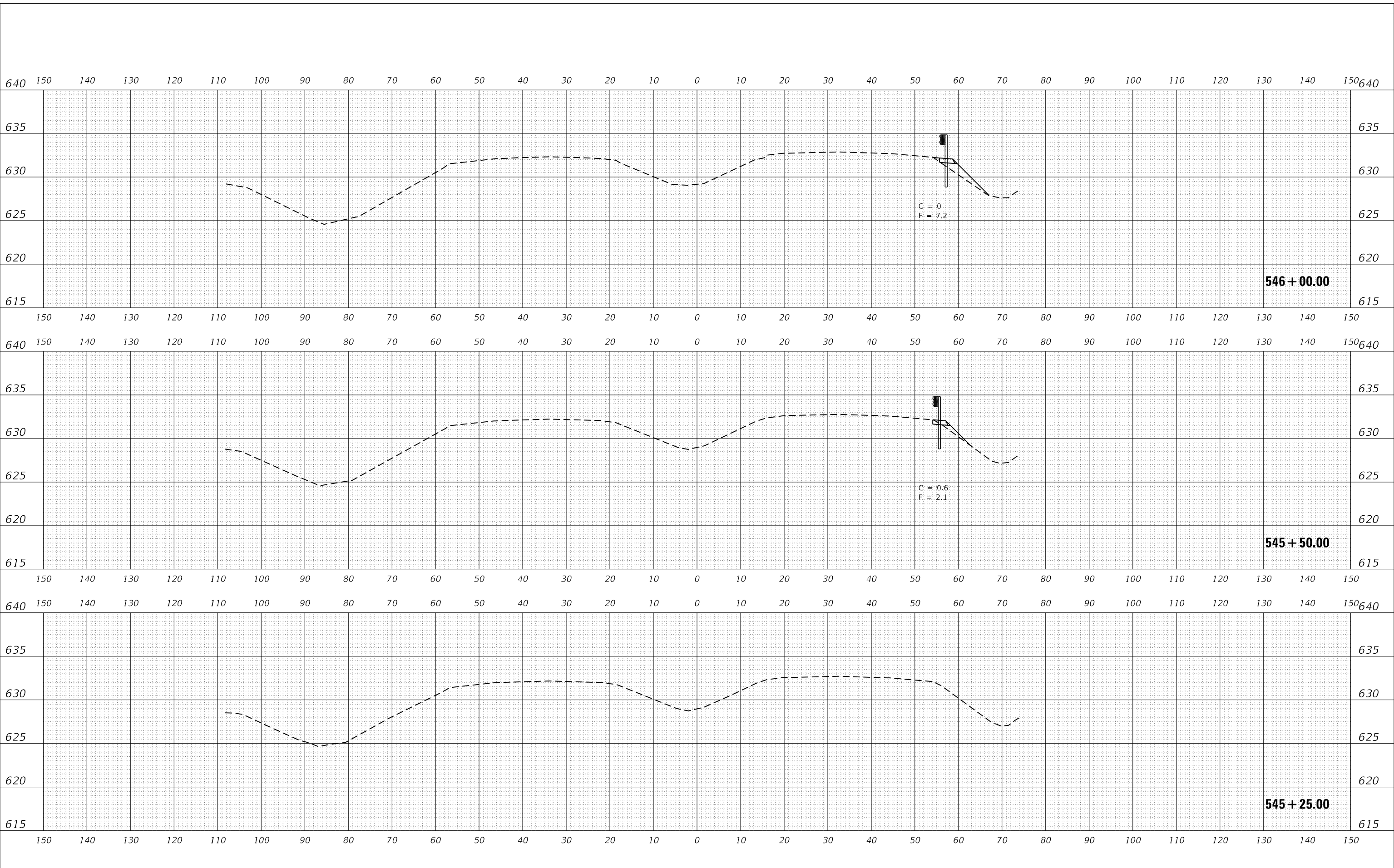
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	264
				CONTRACT NO. 66F09
		ILLINOIS	FED. AID PROJECT	



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

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

MODEL: EXCL6  
FILE NAME: G:\Users\11111287-08457-Kankakee-County\Survey\2020\CAD\_Drawing\0366f09-Section-157.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

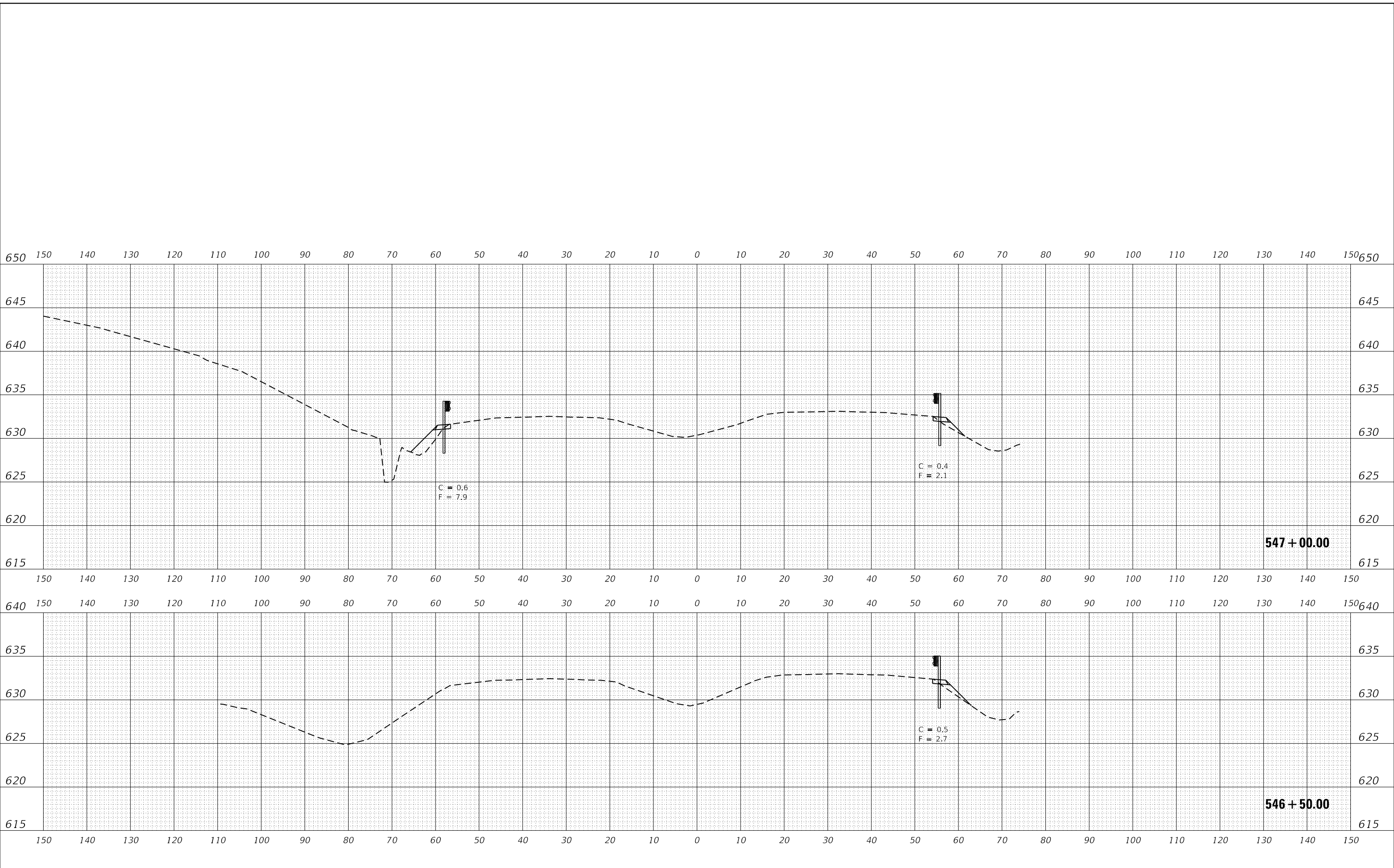
SCALE: 1"=10'      SHEET 13 OF 26 SHEETS      STA. 505+25.00 TO STA. 506+06.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	265
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED AREAS CHECKED	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	DATE

MODEL: EXCL6  
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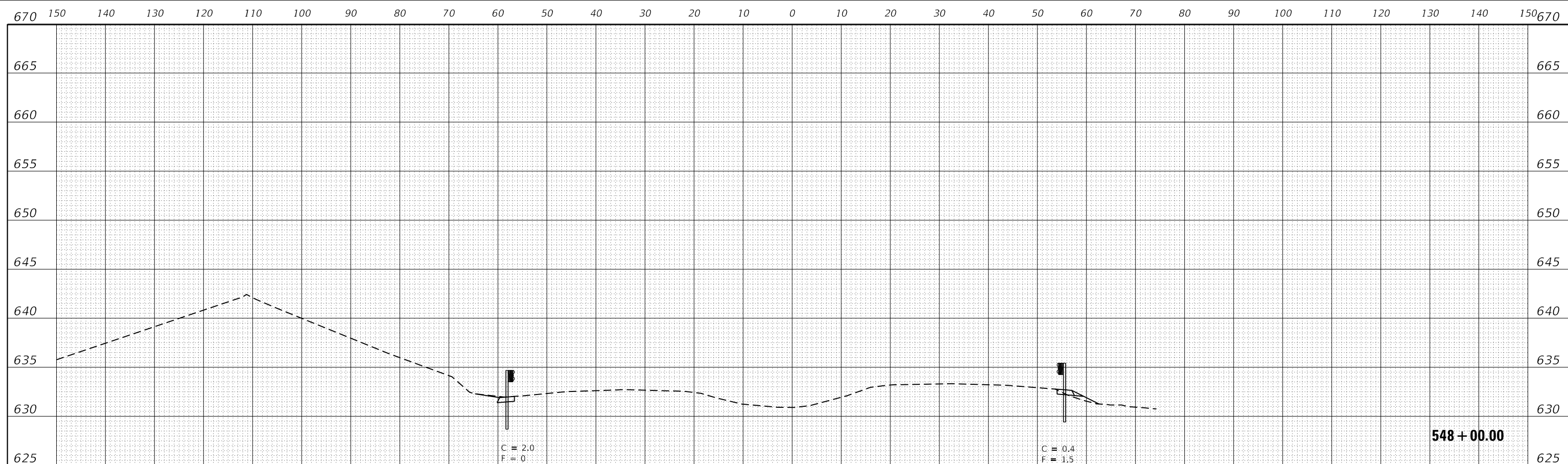


USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

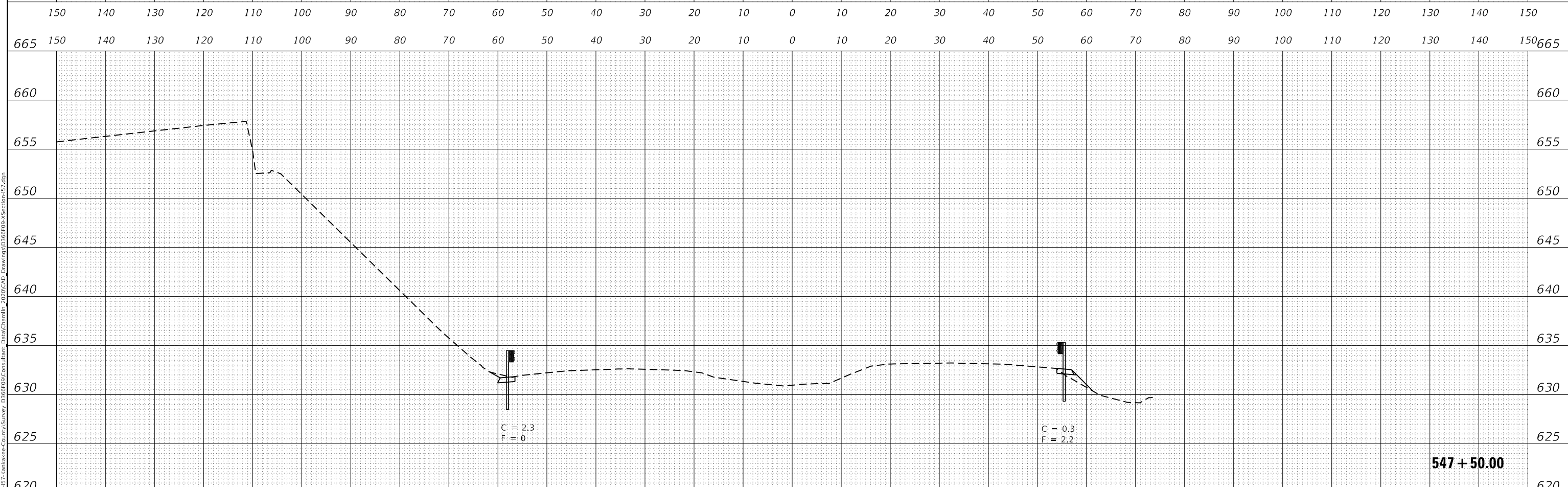
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
SCALE: 1"=10'	SHEET 14 OF 26 SHEETS
STA. 546+50.00 TO STA. 547+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	266
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



**548 + 00.00**



**547 + 50.00**

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

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

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USER NAME	= CHAMLIN
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED -	DJD	REVISED -	
DRAWN -	NV	REVISED -	
CHECKED -		REVISED -	
DATE -		REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

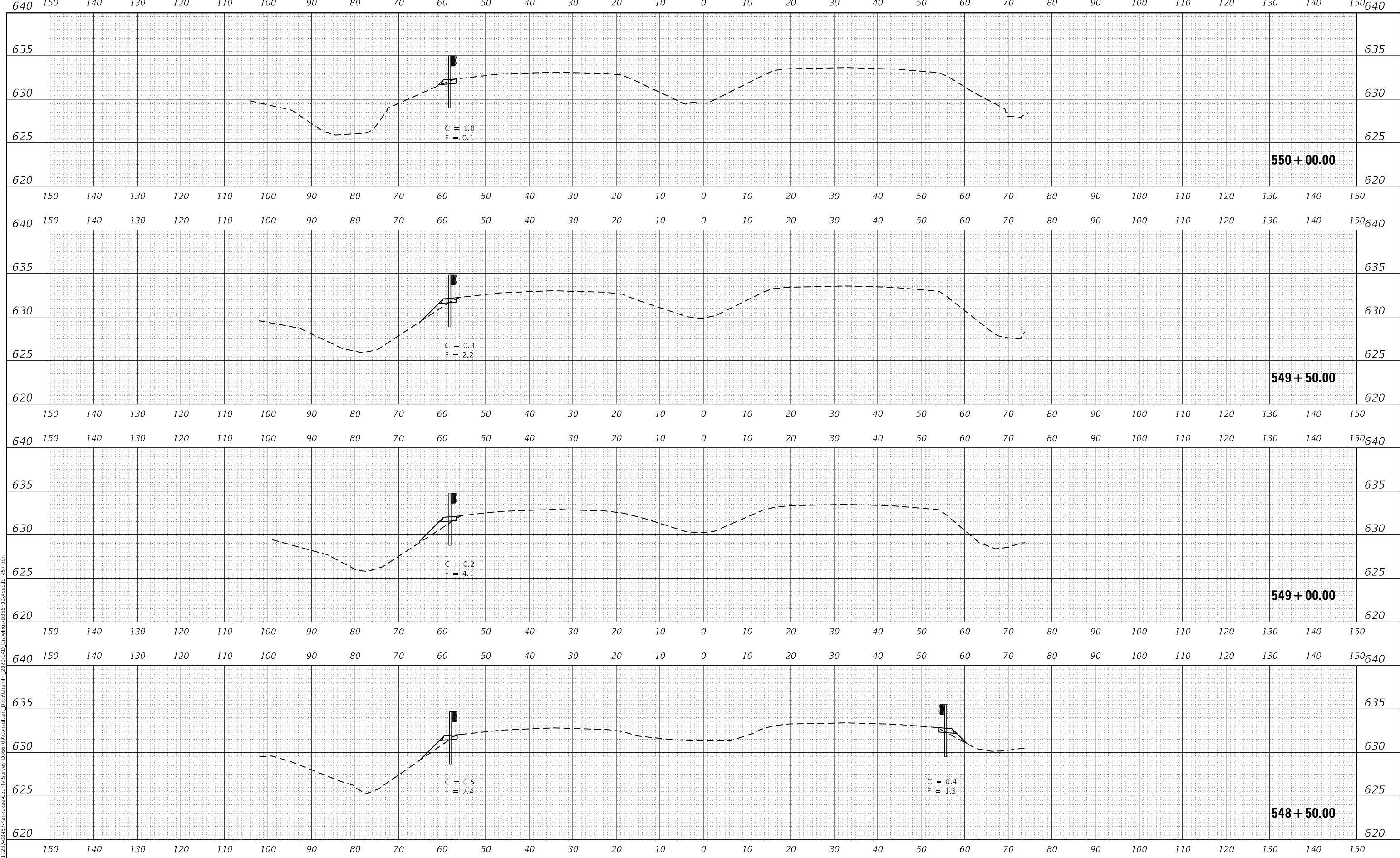
SCALE: 1"=10'    SHEET 15 OF 26 SHEETS    STA. 547+50.00 TO STA. 548+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	267
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME	= CHAMLIN
DESIGNED	- DJD
DRAWN	- NV
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	- DJD
DRAWN	- NV
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

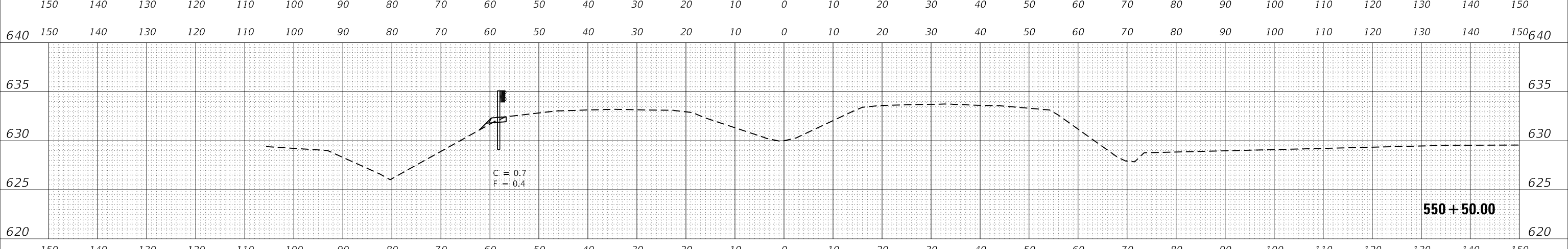
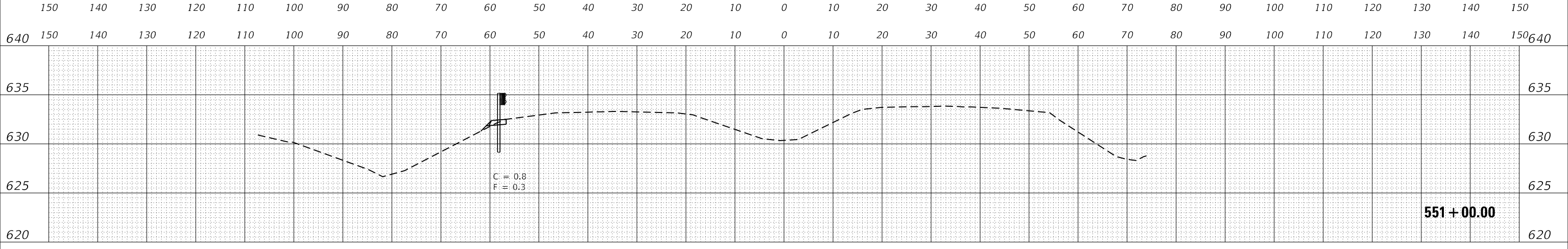
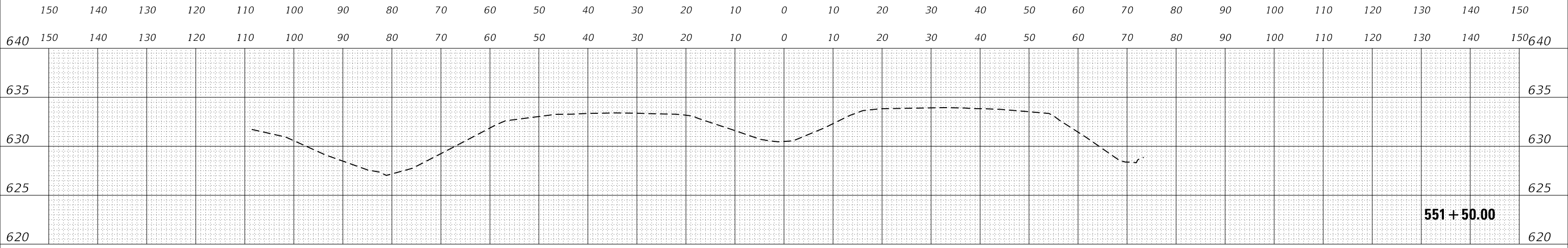
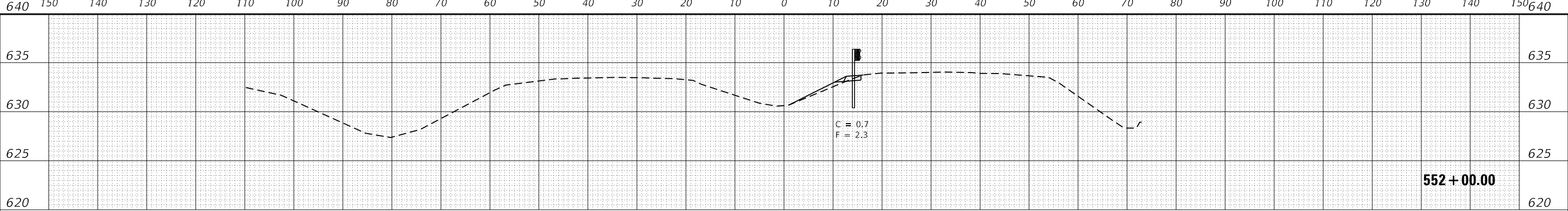
SCALE: 1"=10' SHEET 16 OF 26 SHEETS STA. 548+50.00 TO STA. 550+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	268
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME	= CHAMLIN
DESIGNED	- DJD
DRAWN	- NV
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	- DJD
DRAWN	- NV
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

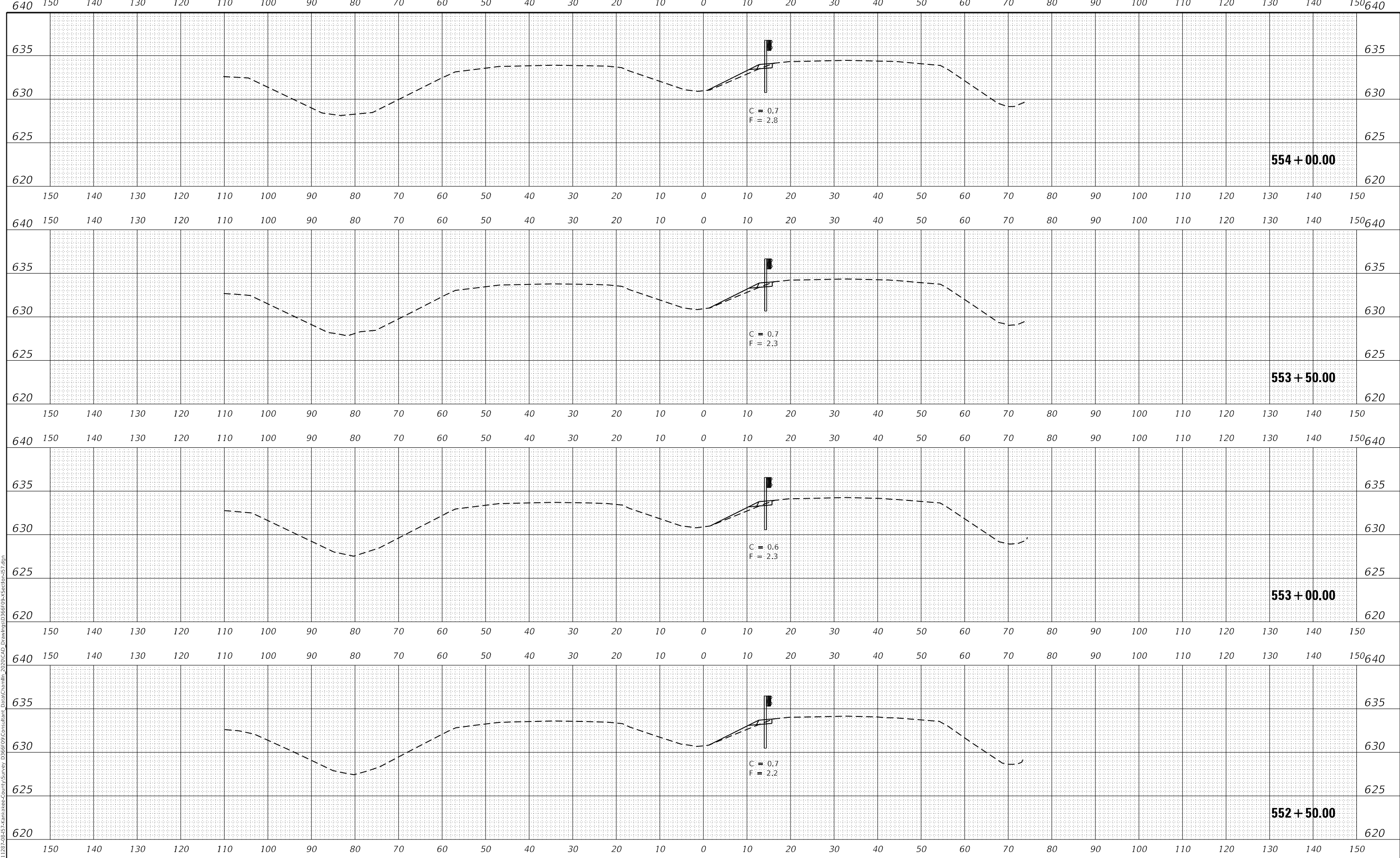
SCALE: 1"=10'    SHEET 17 OF 26 SHEETS    STA. 550+50.00 TO STA. 552+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	269
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

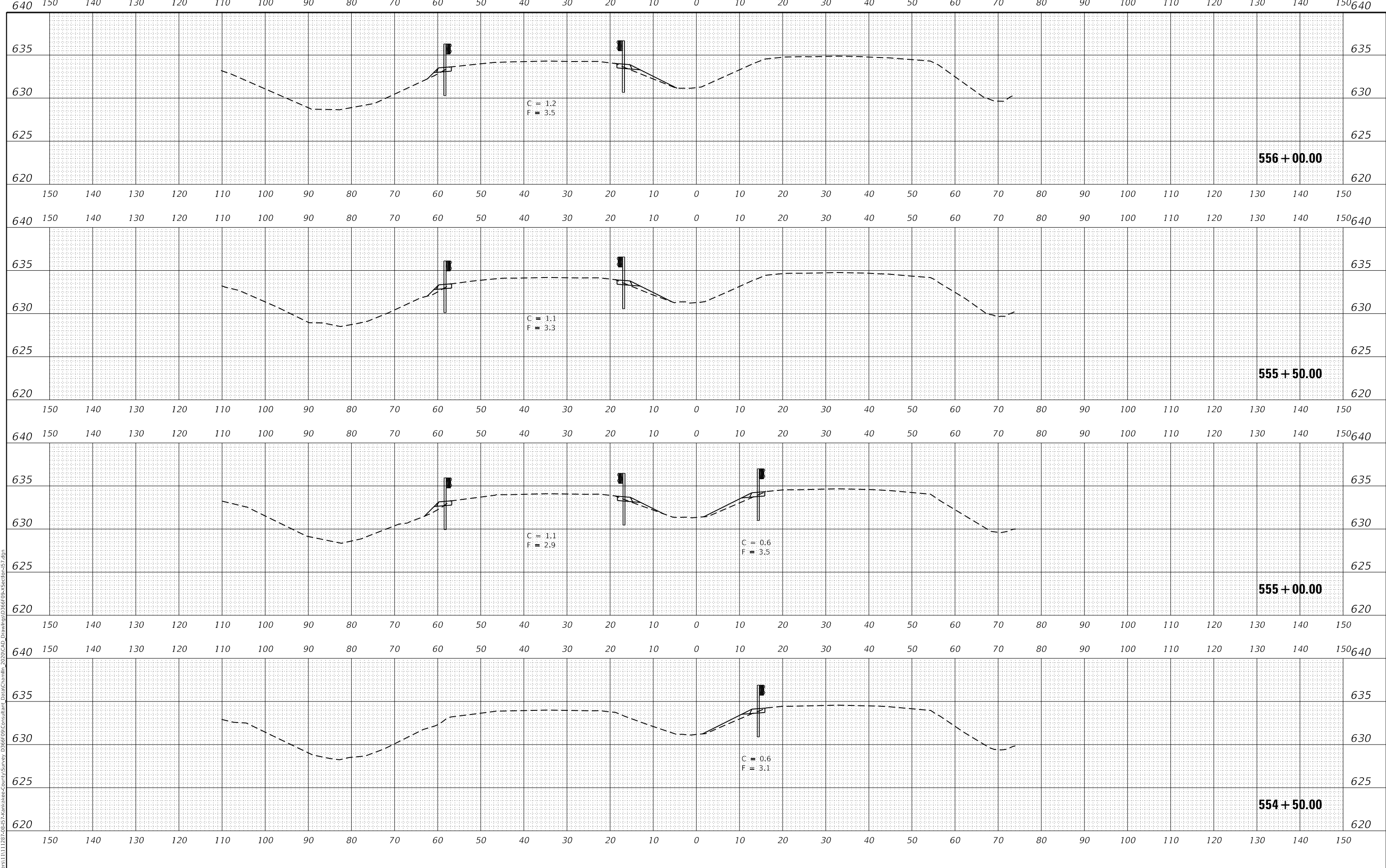
SCALE: 1"=10' SHEET 18 OF 26 SHEETS STA. 552+50.00 TO STA. 554+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	270
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME	= CHAMLIN
DESIGNED	- DJD
DRAWN	- NV
PLLOT SCALE	= 1"=10'
PLLOT DATE	= 12/4/2020

DESIGNED	- DJD
DRAWN	- NV
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

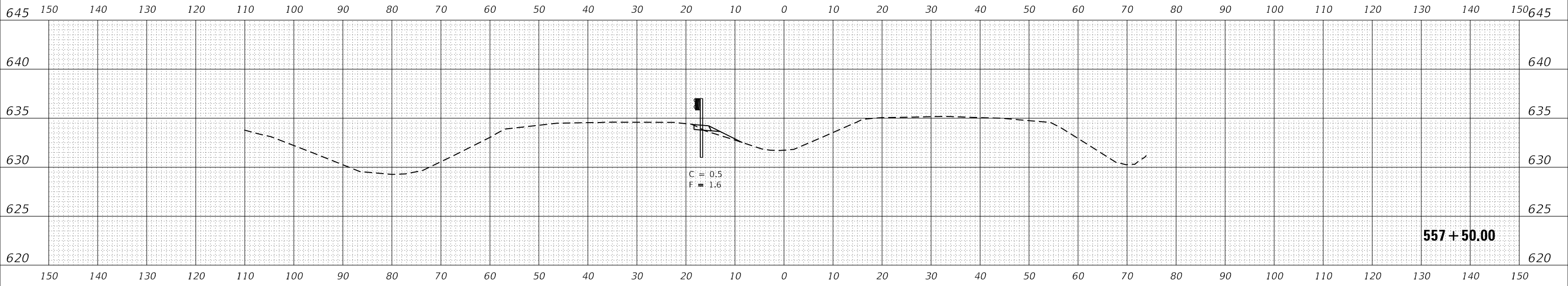
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

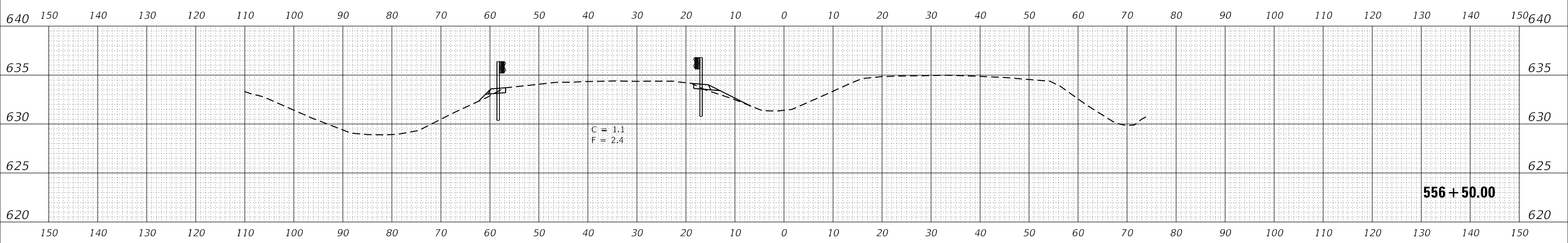
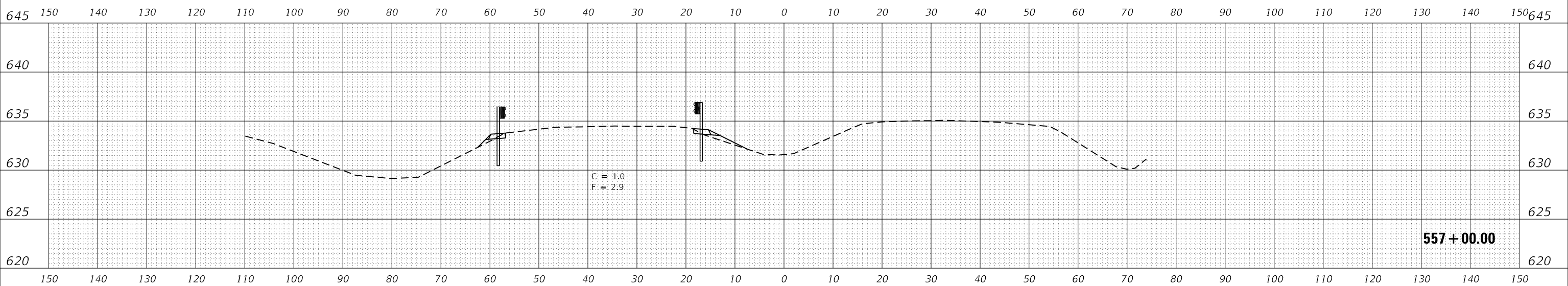
SCALE: 1"=10' SHEET 19 OF 26 SHEETS STA. 554+50.00 TO STA. 556+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)R5-4 & I-1	KANKAKEE	278	271
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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



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



MODEL: EXCL6  
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USER NAME	= CHAMLIN
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	-	DJD
DRAWN	-	NV
CHECKED	-	
DATE	-	

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10' SHEET 20 OF 26 SHEETS STA. 556+50.00 TO STA. 557+50.00

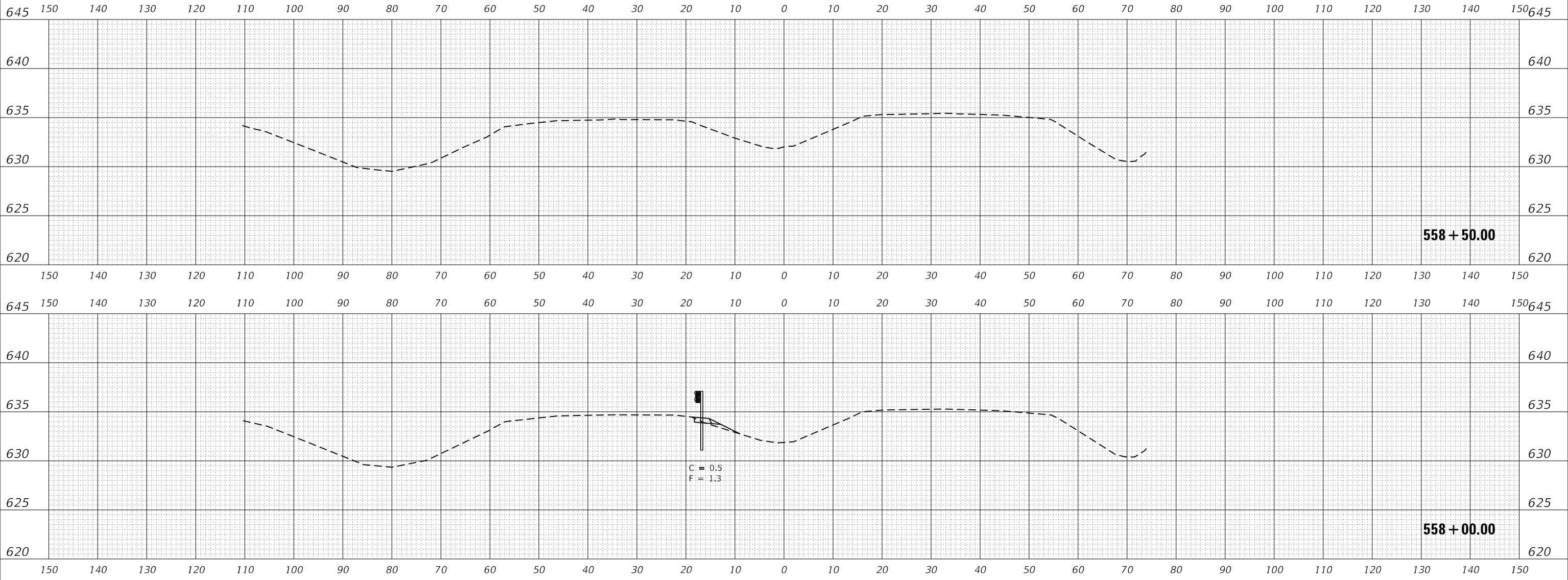
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	272
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				



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

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

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USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

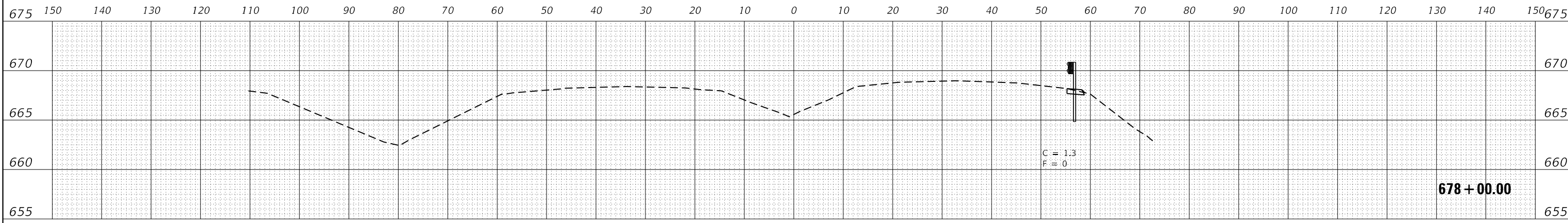
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

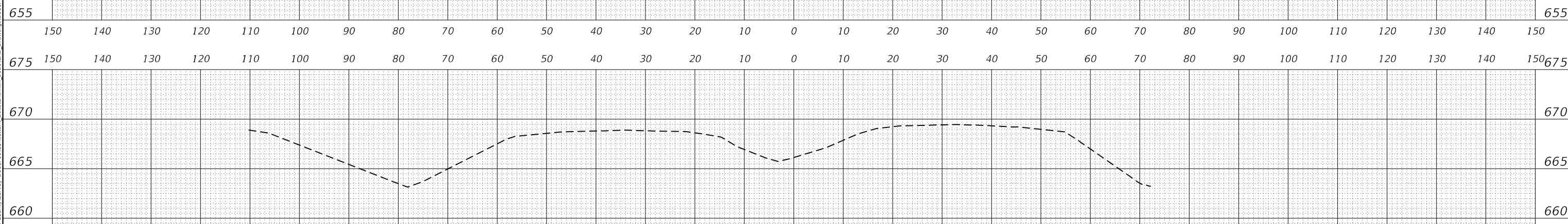
SCALE: 1"=10'      SHEET 21 OF 26 SHEETS      STA. 558+00.00 TO STA. 558+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)R5-4 & I-1	KANKAKEE	278	273
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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



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



MODEL: EXCL6  
FILE NAME: G:\Users\11111287-08457-kankakee-county\Survey\_D368f091\Consultant\_Data\Chamlin\_2020\CAD\_Drawing\0368f091-XSection-157.dgn



USER NAME = CHAMLIN  
PLOT SCALE = 1"=10'  
PLOT DATE = 12/4/2020

DESIGNED - DJD  
DRAWN - NV  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

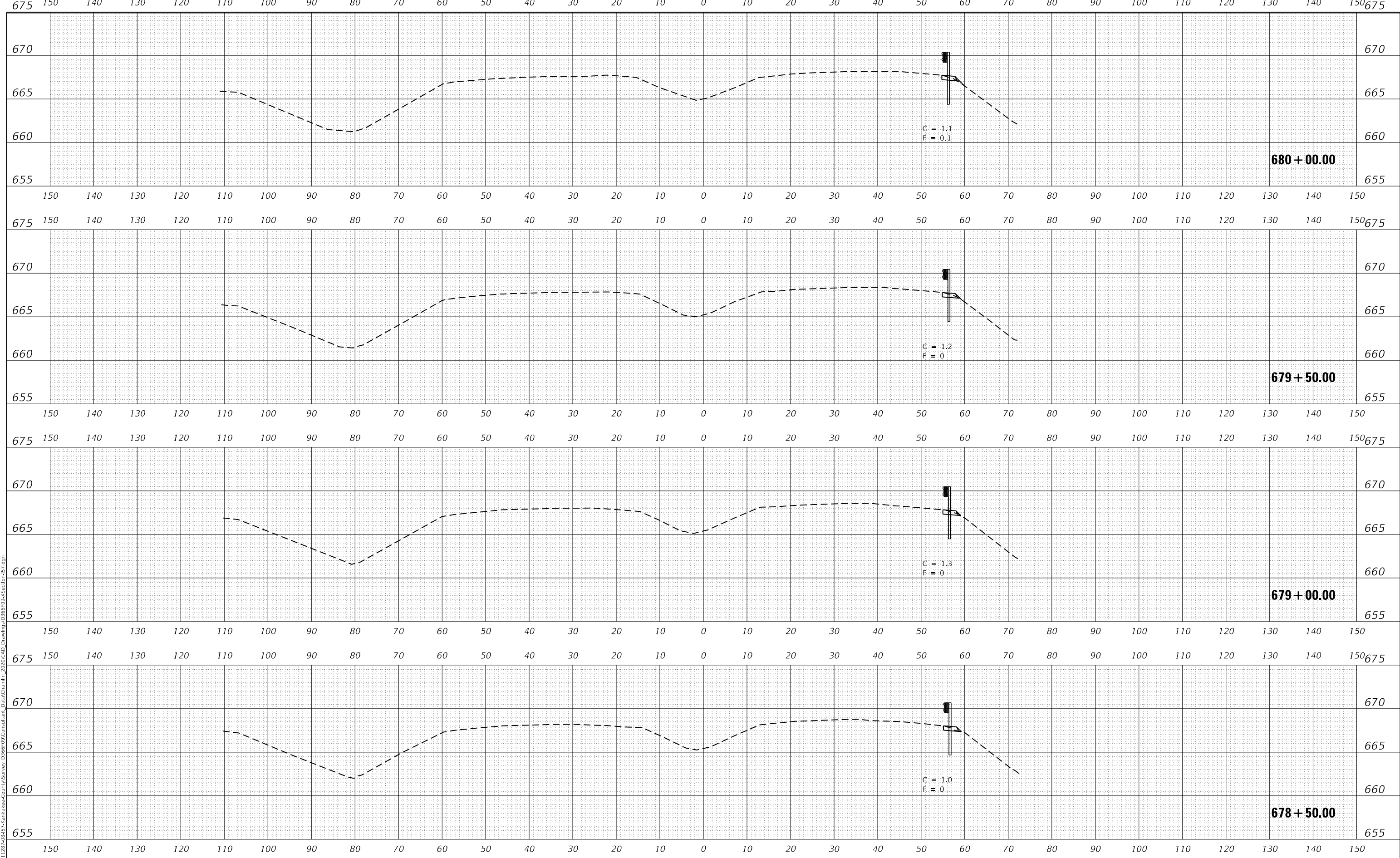
SCALE: 1"=10' SHEET 22 OF 26 SHEETS STA. 677+00.00 TO STA. 678+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	274
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: EXCL6  
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USER NAME	= CHAMLIN
DESIGNED	- DJD
DRAWN	- NV
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	- DJD
DRAWN	- NV
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

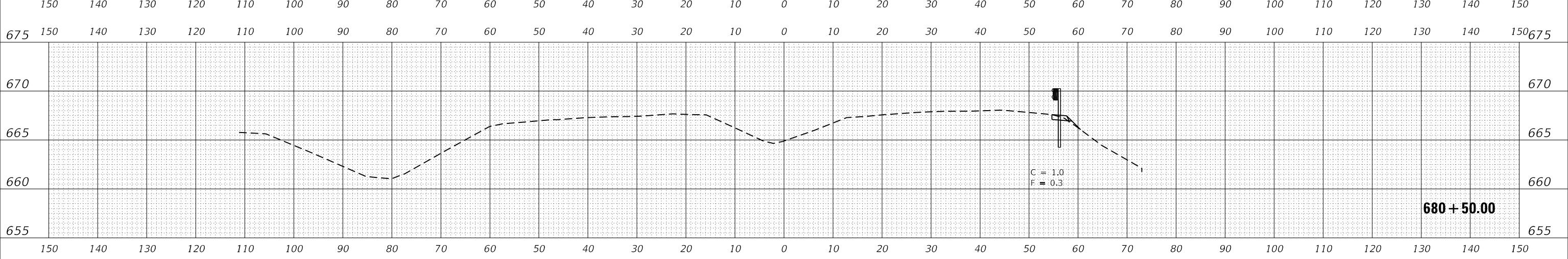
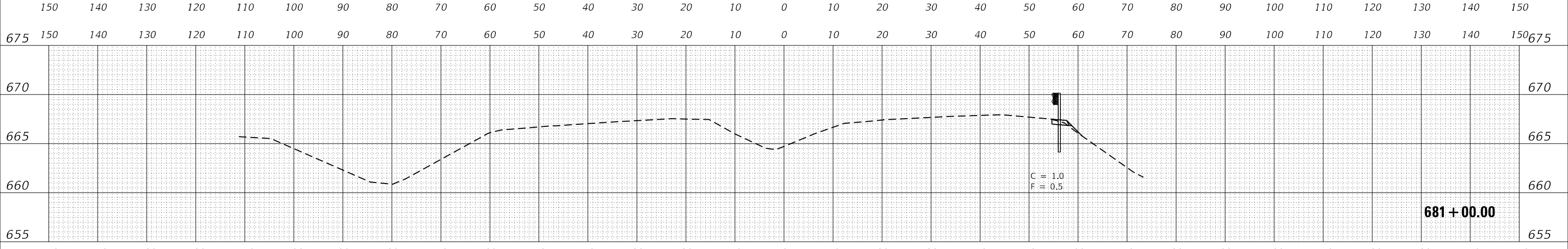
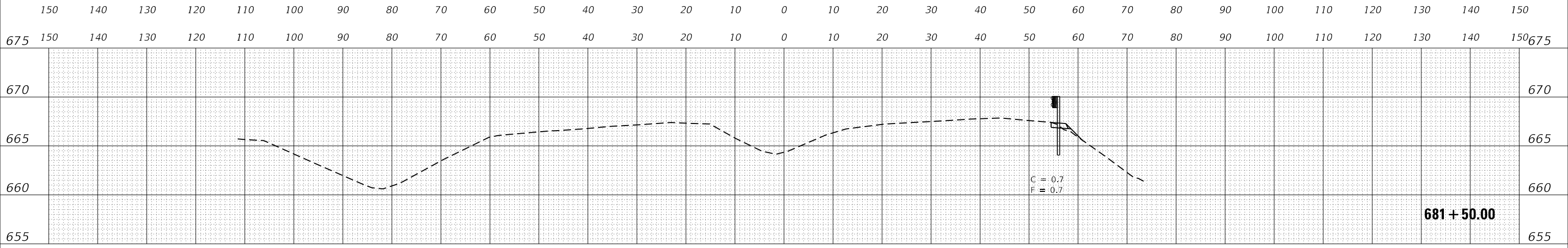
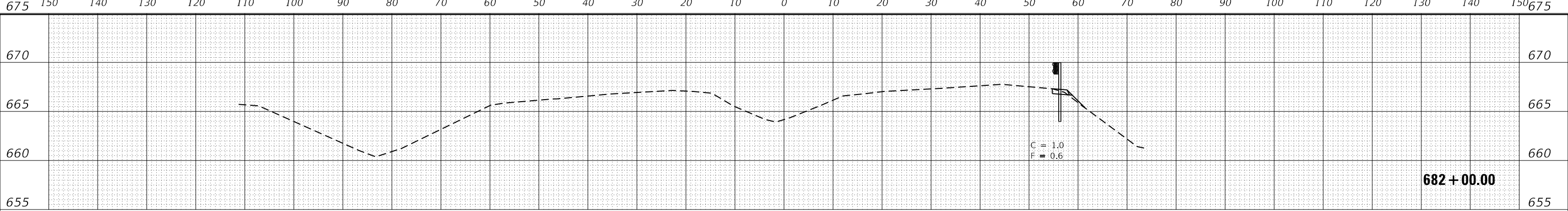
SCALE: 1"=10' SHEET 23 OF 26 SHEETS STA. 678+50.00 TO STA. 680+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	275
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME	= CHAMLIN
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	-	DJD
DRAWN	-	NV
CHECKED	-	
DATE	-	

REVISED	-
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REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

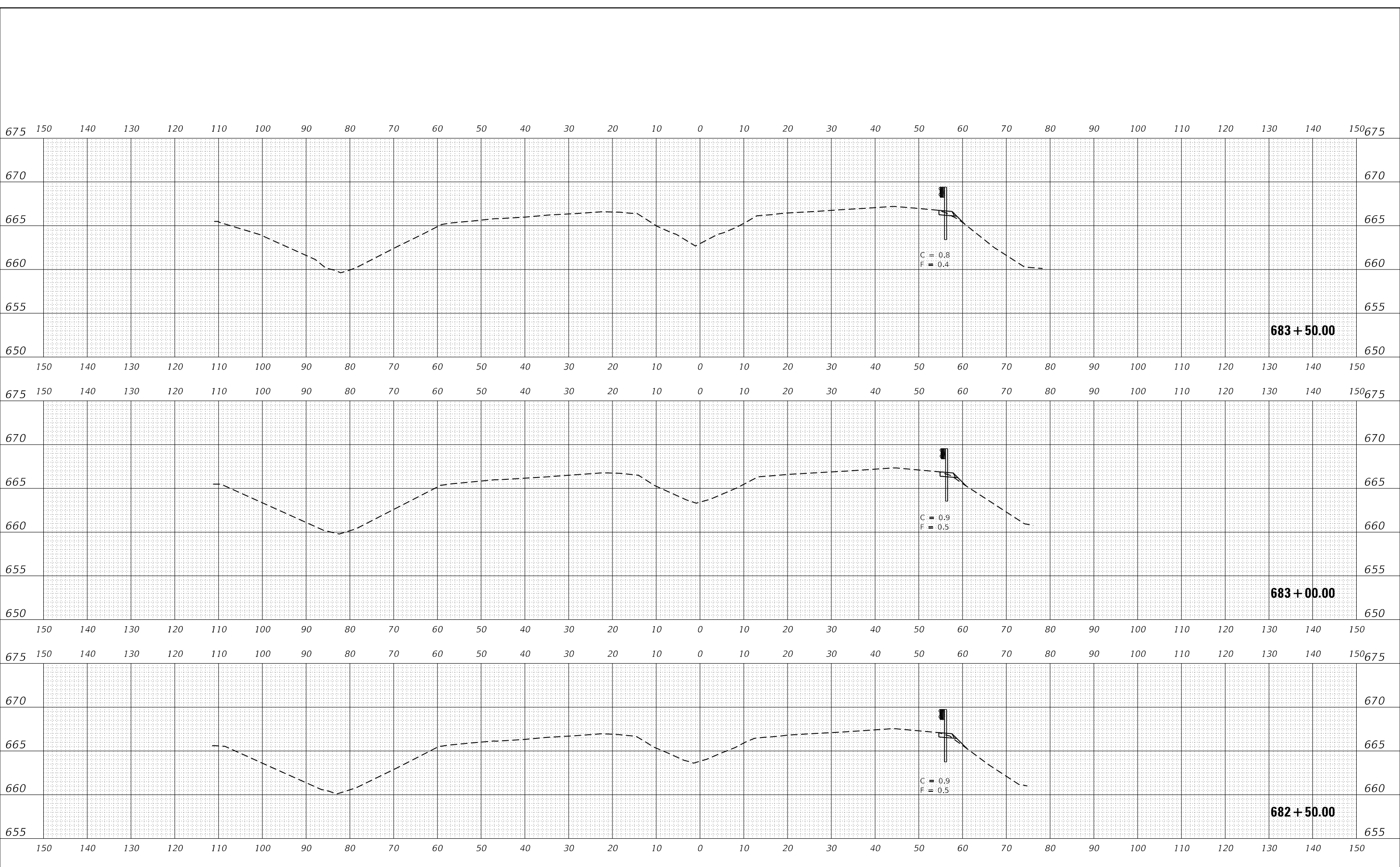
SCALE: 1"=10'      SHEET 24      OF 26      SHEETS      STA. 680+50.00      TO STA. 682+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	276
CONTRACT NO. 66F09				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME	= CHAMLIN
DESIGNED	- DJD
DRAWN	- NV
PLOT SCALE	= 1"=10'
PLOT DATE	= 12/4/2020

DESIGNED	- DJD
DRAWN	- NV
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

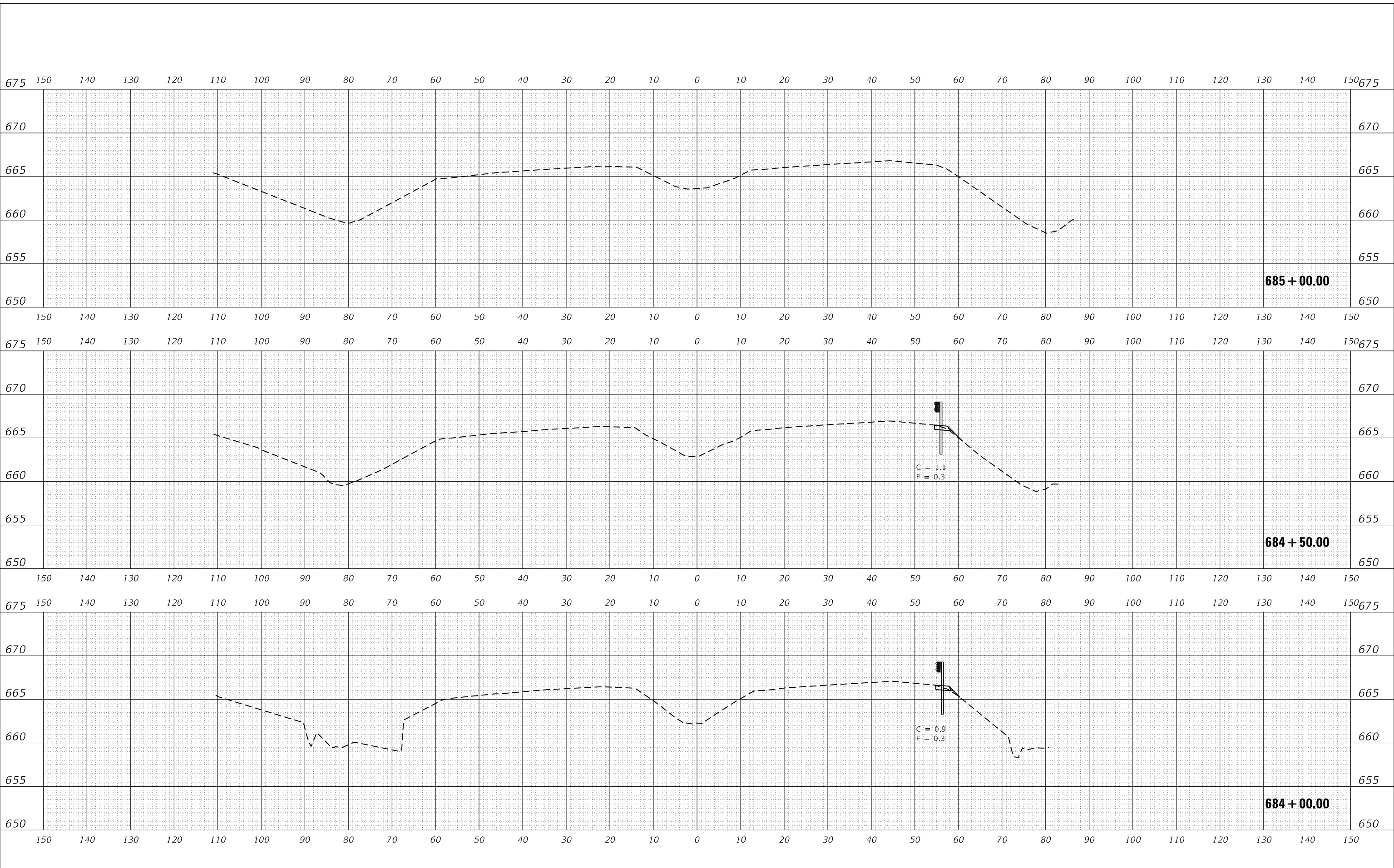
SCALE: 1"=10' SHEET 25 OF 26 SHEETS STA. 682+50.00 TO STA. 683+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	277
CONTRACT NO. 66F09				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: EXCL6  
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USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - NV	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10'      SHEET 26 OF 26 SHEETS      STA. 684+00.00 TO STA. 685+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-(3,4)RS-4 & I-1	KANKAKEE	278	278
CONTRACT NO. 66F09				
		ILLINOIS	FED. AID PROJECT	