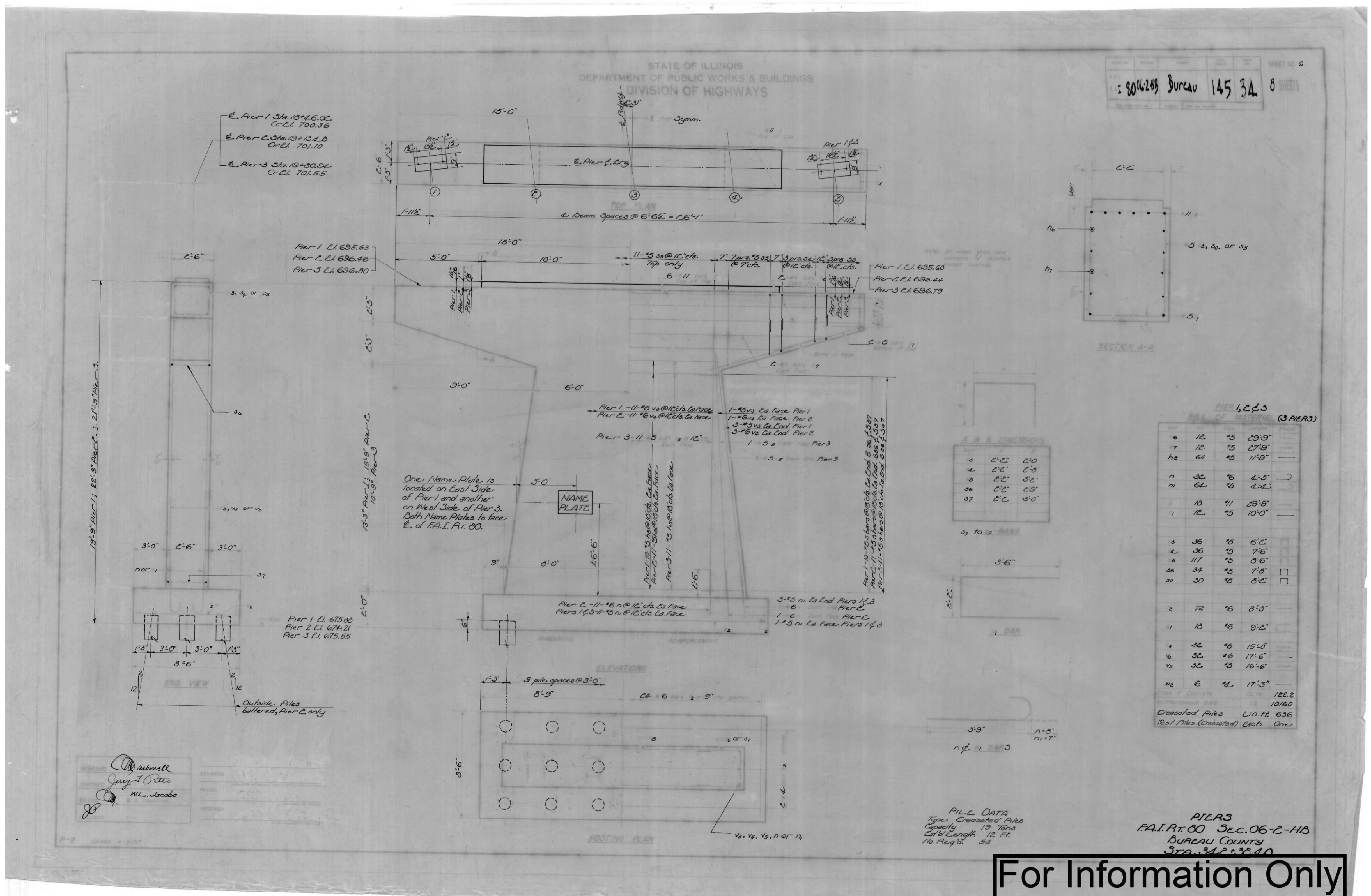

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Chicago, IL 60631-3440

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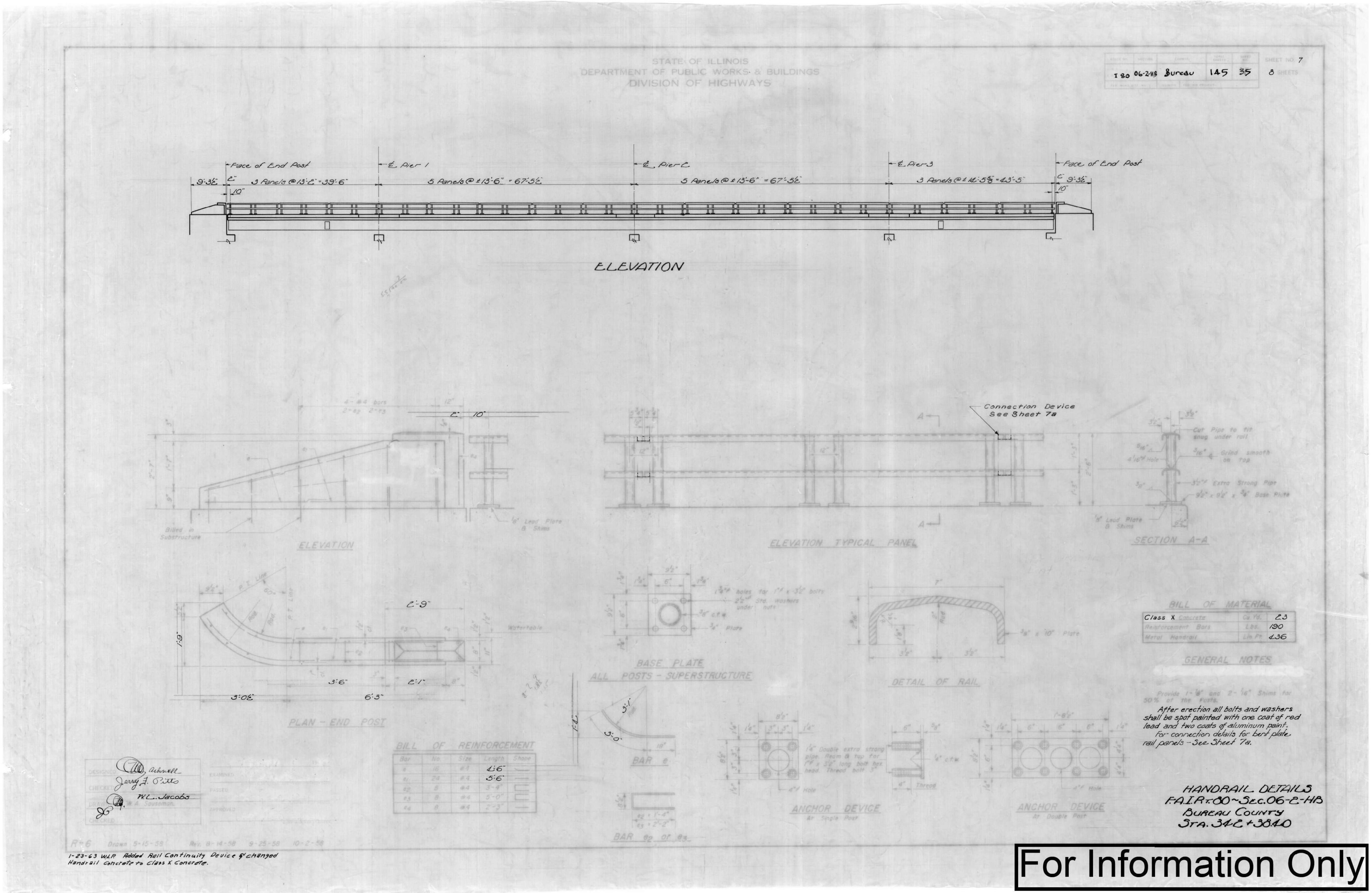
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190

SHEET 6 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	101
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



For Information Only

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DLZ Illinois, Inc. 8430 W. Bryn Mawr Ave. Suite 100 Chicago, IL 60631-3440	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE =	DRAWN -	REVISED -	
	PLOT DATE = 3/7/2022	CHECKED -	REVISED -	

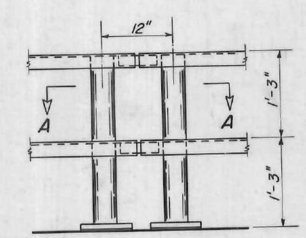
EXISTING PLANS
STRUCTURE NO. 006-0190
SHEET 7 OF 21 SHEETS

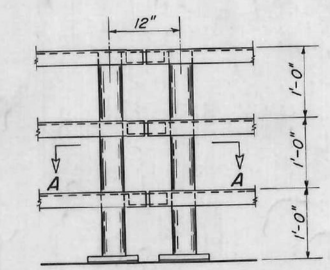
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	102
		CONTRACT NO. 66K73		
	ILLINOIS	FED. AID PROJECT		

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

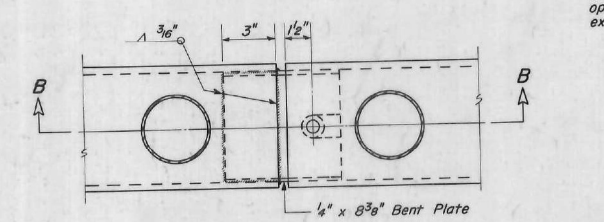
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.I 80	06-2-HB	Bureau	145	35A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 7a
8 SHEETS



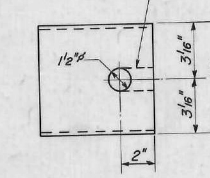


TYPICAL ELEVATION AT PANEL JOINTS

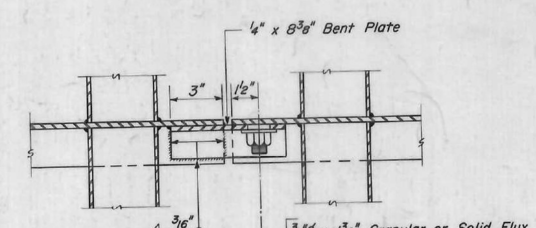


SECTION A-A

Use 1 1/2"ø punched hole at all panel joints. Use open slot at all expansion joints

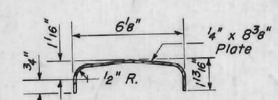


PLAN



3/4"ø x 1 3/4" Granular or Solid Flux Filled Stud Stud Threaded full length - Automatically end welded or 3/4"ø x 1 3/4" fully threaded Stud welded with 1/8" cfw. Provide Washer and Locknut.

SECTION B-B



END VIEW

DETAIL 1/4" BENT PLATE

CONNECTION DETAILS FOR BENT PLATE RAIL PANELS

CONNECTION DETAILS
F.A.I. RT. 80 ~ SEC. 06-2-HB
BUREAU COUNTY
STA. 512 30.10

For Information Only

DESIGNED	[signature]
CHECKED	
DRAWN	W. A. Sousaman Jr.
CHECKED	WJP

19
EXAMINED
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

2-15-62

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Chicago, IL 60631-3440
ARCHITECTURE ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

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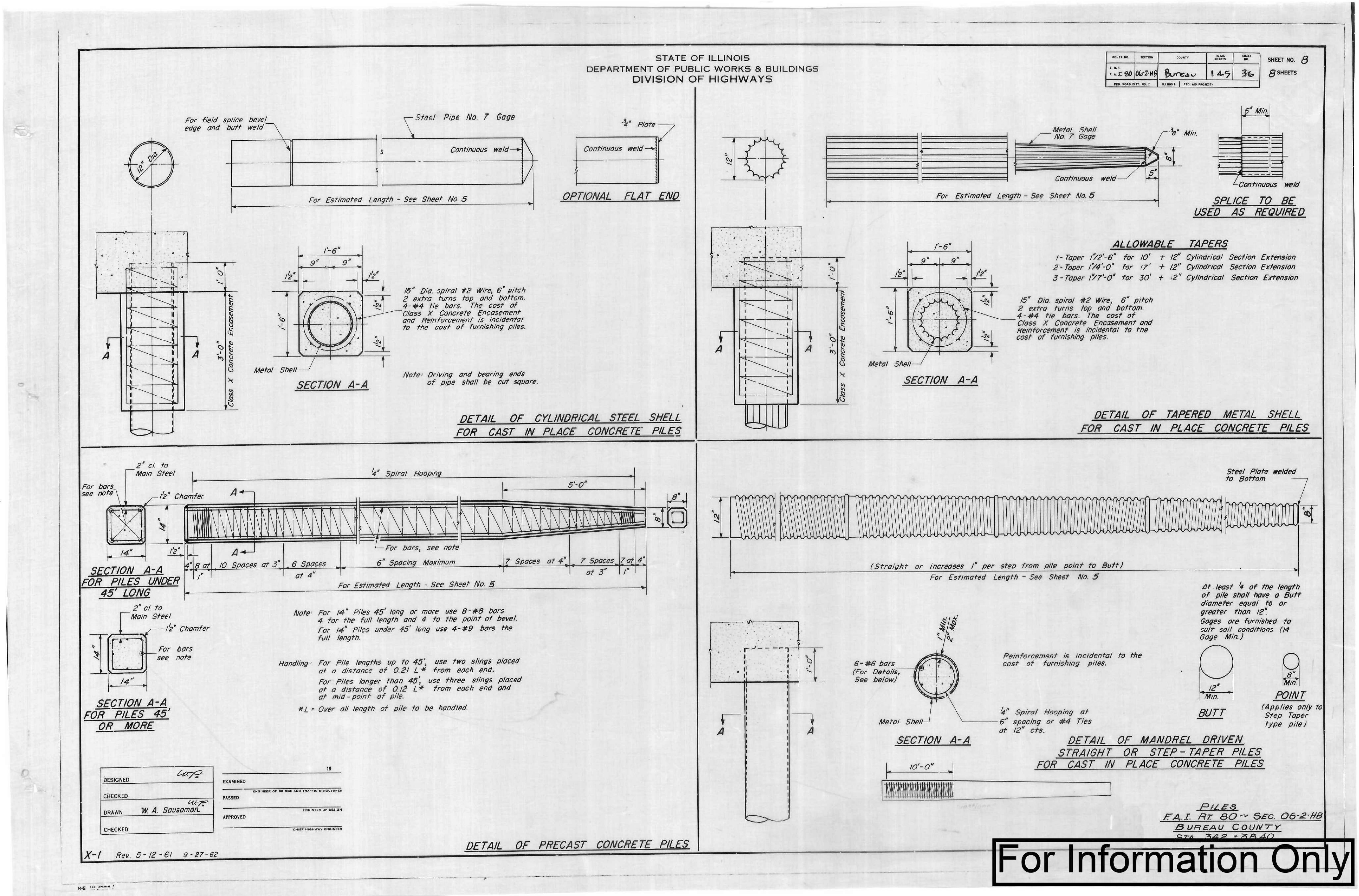
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190
SHEET 8 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	103
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	



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DLZ Illinois, Inc.
8430 W. Bryn Mawr Ave.
Suite 100
Chicago, IL 60631-3440

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	CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190

SHEET 9 OF 21 SHEETS

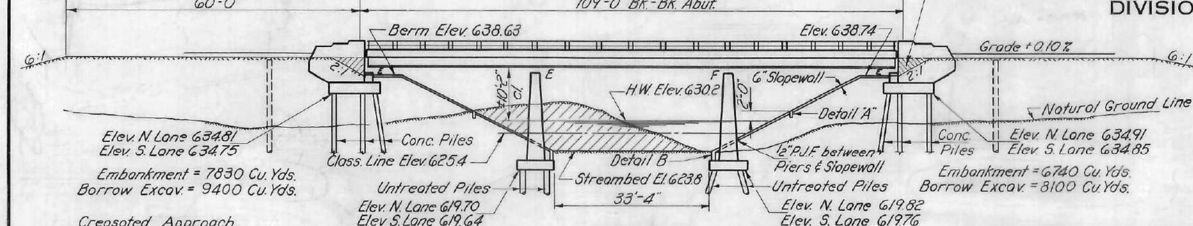
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	104
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

B.M. Spike & Washer in root of 48" Cottonwood 97' Rt. Sta. 425+51 Elev. 632.84 (U.S.G.S. Datum)

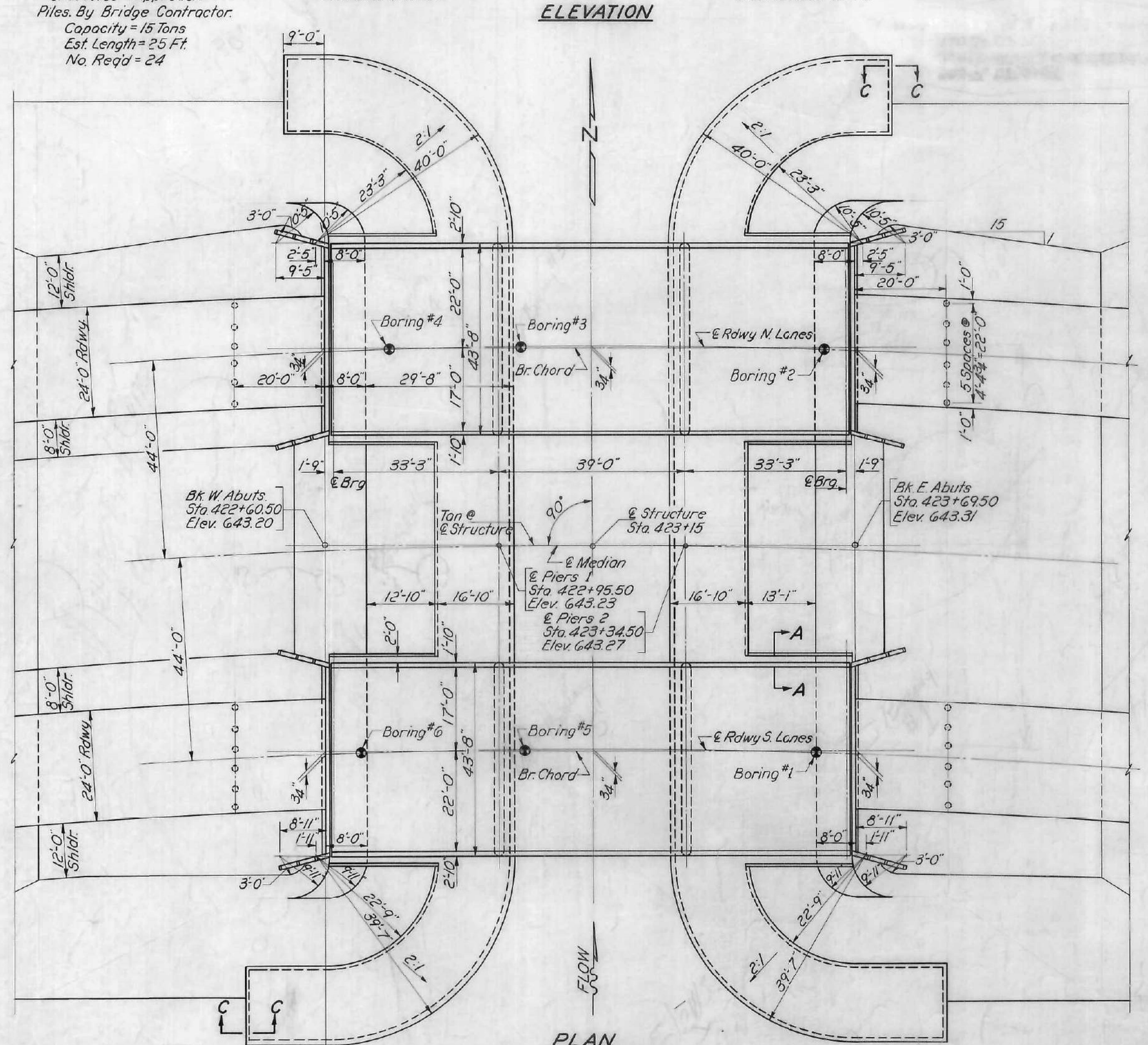
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. I 80	06-2-B	Bureau	145	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- I-80-1(49) 41		

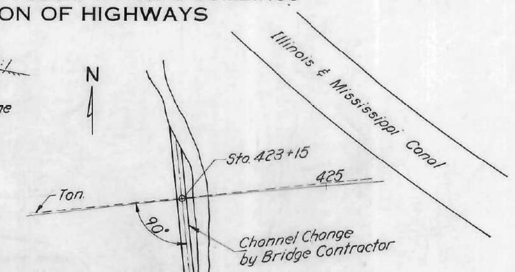
SHEET NO. 1
12 SHEETS



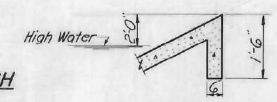
ELEVATION



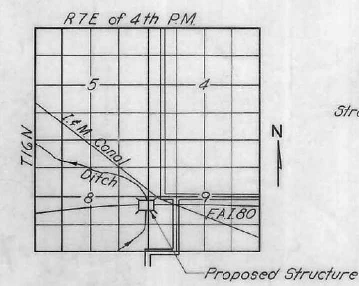
PLAN



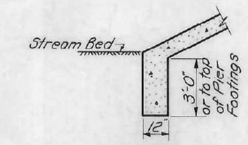
CHANNEL CHANGE SKETCH



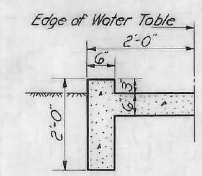
DETAIL "A"



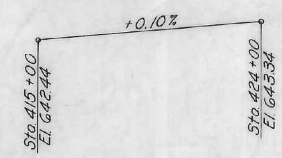
LOCATION PLAN



DETAIL "B"



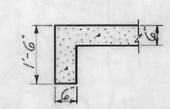
SECTION A-A



GRADE PROFILE F.A.I. 80

HORIZONTAL CURVE DATA

P.I. = 422+78.53
I = 12°00'00"
D = 0°30'00"
T = 1204.41'
L = 2400.00'
E = 63.12'
R = 11,459.2'



SECTION C-C

WATERWAY INFORMATION

Drainage Area — 4830 Acres
Character — Rolling Cultivated
Required Opening — (50 Yr. Flood) — 280 Sq. Ft.

Proposed Opening — 280 Sq. Ft.
Ordinary Water Elev. 625.0
Low Water Elev. — 624.4

DESIGN STRESSES

fc = 1400 psi. Super & Sub
Vc = 75 psi. Footings
fs = 20,000 psi. Reinf.
fs = 20,000 psi. Struct.
n = 10

LOADING H20-S16-44 & ALT.

GENERAL NOTES

Class X concrete shall be used throughout except in piers.

Class A concrete shall be used in piers.

Coarse aggregate which is to be used in end posts must be free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Article 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.

Layout of slope walls may be varied to suit ground conditions in the field, as directed by the Engineer.

Rivets 3/4" ϕ, open holes 13/16" ϕ, unless noted.

All bolsters, rockers, bearing plates, lead plates, shim plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel. Est. Wt. = 13,430#

Anchor bolts shall be set before riveting diaphragms over supports.

Expansion guards shall be fabricated and erected in accordance with Article 51.13(d) of the Standard Specifications and are included in quantity of Structural Steel.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor.

The exposed faces of the expansion guards shall be given two shop coats of red lead paint.

The metal handrail shall be painted in accordance with Article 55.3 of the Standard Specifications.

Piles of abutments shall be driven in holes precored to natural ground line in accordance with Article 60.9(c) of the Standard Specifications.

The Contractor shall drive two concrete and two timber test piles in permanent locations as directed by the Engineer before ordering remainder of piles. One concrete test pile at West Abutment South Lane, one timber test pile at Pier 1 South Lane, one timber test pile at Pier 2 North Lane and one concrete test pile at East Abutment North Lane.

Permanent forms will not be permitted in forming concrete floor.

All Structural Steel shall conform to the ASTM Specification Designation A-36.

SEC. 06-2B

TOTAL BILL OF MATERIALS - 2 STRUCTURES

Item	Unit	Super	Sub	Total
* Earth Excavation (Waste)	Cu. Yds.		60,604	60,604
Borrow Excavation	Cu. Yds.		17,500	17,500
* Porous Granular Embankment	Cu. Yds.		48,240	48,240
Structural Steel	Lbs.	168,170		168,170
Class A Concrete	Cu. Yds.		328.3	328.3
Class X Concrete	Cu. Yds.	248.4	166.2	414.6
Metal Handrail	Lin. Ft.	427		427
Reinforcement Bars	Lbs.	58,040	25,350	83,390
Untreated Piles	Lin. Ft.		2150	2150
Creosoted Piles	Lin. Ft.			600
Test Piles (Timber)	Each		2	2
Concrete Piles	Lin. Ft.		1680	1680
Test Piles (Concrete)	Each		2	2
Metal Shoes	Each		86	86
Name Plates	Each	2		2
Slope Wall	Sq. Yds.			1690
Protective Coat	Sq. Yds.	1135		1135

* Quantities inclusive for Section 06-2B and Section 06-2B-1.

STATION 423+15
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 06-2B
F.A. PROJ. I-80-1(49)
LOADING H20-S16 & ALT.

NAME PLATE LETTERING
See Standard 2118

DESIGNED	Eugene Beatty
CHECKED	Kenneth Oehmke
DRAWN	J. L. Armstrong
CHECKED	K.H.O.

Aug 13 1962

EXAMINED W. E. Baumann — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

PROJ.-I-80-1(49)41.
GENERAL PLAN & ELEVATION
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2 B
BUREAU COUNTY
STA. 423+15

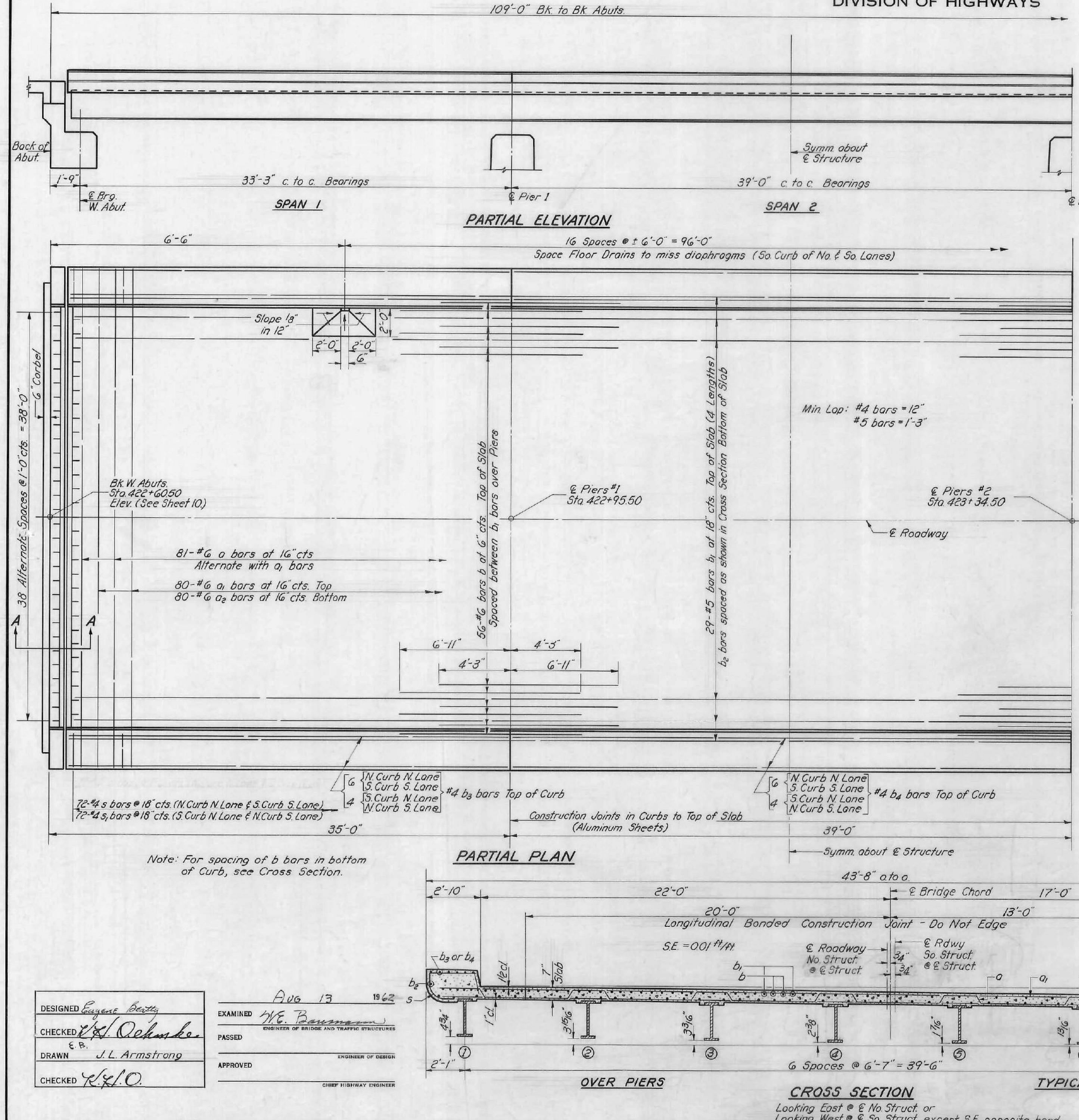
1-25-63 W.K.R. Add A36 Steel Mat'l. increased stresses from 18,000 to 20,000 psi. Borrowed F section.

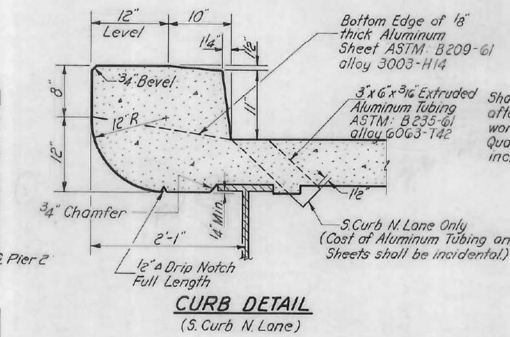
For Information Only

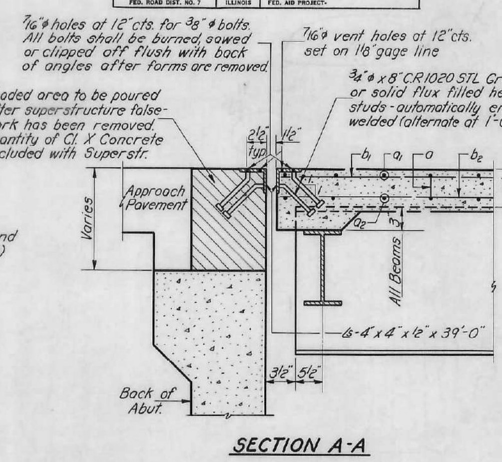
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

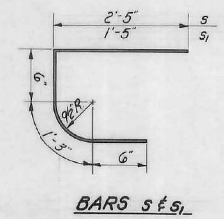
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	60-2-B	Bureau	145	38

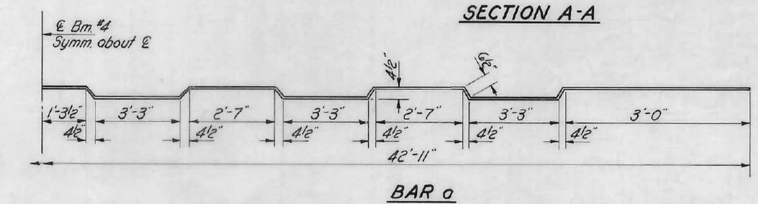
SHEET NO. 2
12 SHEETS

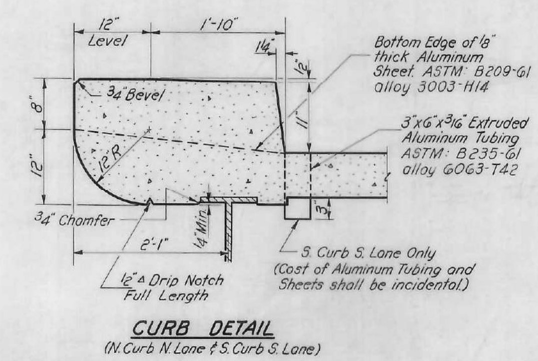






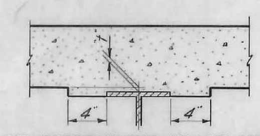






SEC. 06-2B
TWO STRUCTURES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	162	#6	44'-11"	~~~
a1	160	#6	43'-0"	—
a2	160	#6	41'-10"	—
b	224	#6	11'-2"	—
b1	232	#5	27'-5"	—
b2	480	#5	27'-5"	—
b3	80	#4	17'-5"	—
b4	40	#4	19'-10"	—
d	428	#4	1'-3"	—
s	144	#4	4'-8"	⊏
s1	144	#4	3'-8"	⊏
Class X Concrete			Cu. Yd.	248.4
Reinforcement Bars			Lb.	58,040
Struct. Steel			Lb.	168,170
Name Plates			Each	2



METHOD OF DETERMINING FILLET HEIGHT "f"

After all Structural Steel has been erected elevations of the top of the flanges of the beams shall be taken at the stations shown on Sheet #10. These elevations subtracted from the "Modified Slab Elevations" shown on Sheet #10, minus floor thickness equal the fillet heights above top of beams.

DESIGN STRESSES

fs = 20,000 psi. Structural Steel
fs = 20,000 psi. Reinforcement
fc = 1,400 psi. Superstructure
fc = 1,400 psi. Substructure
n = 10

SUPERSTRUCTURE
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2 B
BUREAU COUNTY
STA. 423+15

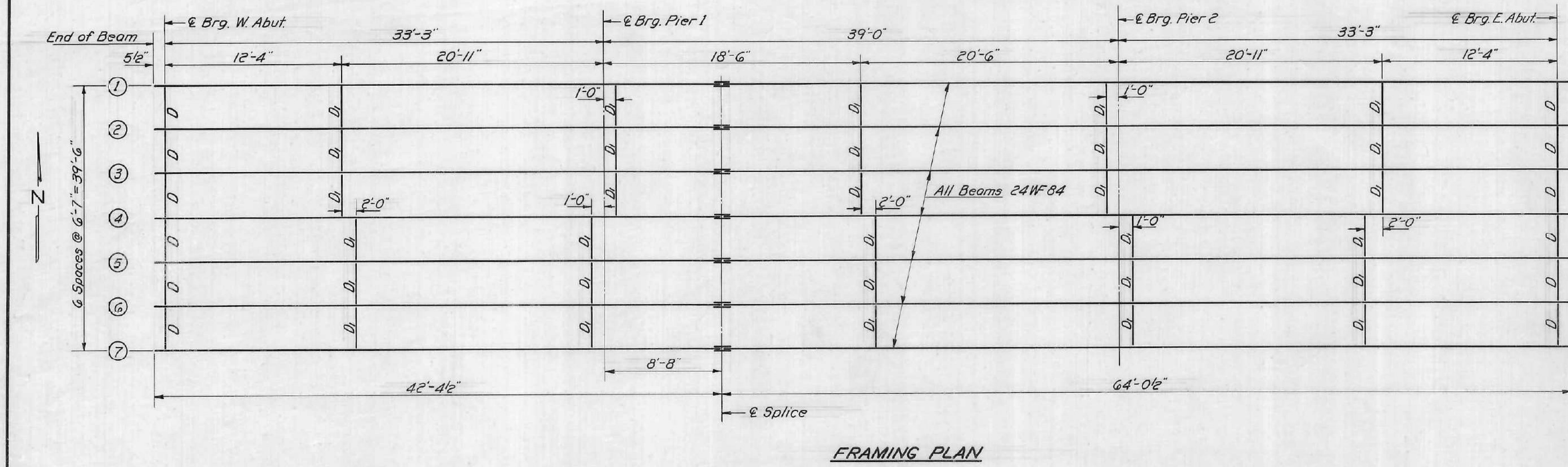
DESIGNED Eugene Beatty
CHECKED V.A. Oehmke
DRAWN J. L. Armstrong
CHECKED K.Z.I.O.
EXAMINED H.E. Baumann — Aug 13 1962
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

For Information Only

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.I. 80	06-2-B	Bureau	145	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 3
12 SHEETS



FRAMING PLAN

ELEVATIONS TOP OF BEAMS

NORTH STRUCTURE

Locations	℄ Beams						
	1	2	3	4	5	6	7
℄ Brg. W. Abut.	642.85	642.78	642.71	642.65	642.58	642.52	642.45
℄ Brg. Pier 1	642.85	642.79	642.72	642.65	642.59	642.52	642.46
℄ Splice	642.85	642.79	642.72	642.65	642.59	642.52	642.46
℄ Brg. Pier 2	642.90	642.83	642.77	642.70	642.64	642.57	642.50
℄ Brg. E. Abut.	642.95	642.89	642.82	642.75	642.69	642.62	642.56

SOUTH STRUCTURE

Locations	℄ Beams						
	1	2	3	4	5	6	7
℄ Brg. W. Abut.	642.79	642.72	642.65	642.59	642.52	642.46	642.39
℄ Brg. Pier 1	642.79	642.72	642.66	642.59	642.53	642.46	642.40
℄ Splice	642.79	642.73	642.66	642.59	642.53	642.46	642.40
℄ Brg. Pier 2	642.84	642.77	642.71	642.64	642.58	642.51	642.44
℄ Brg. E. Abut.	642.89	642.83	642.76	642.69	642.63	642.56	642.50

Note: Elevations refer to top of beam flanges.

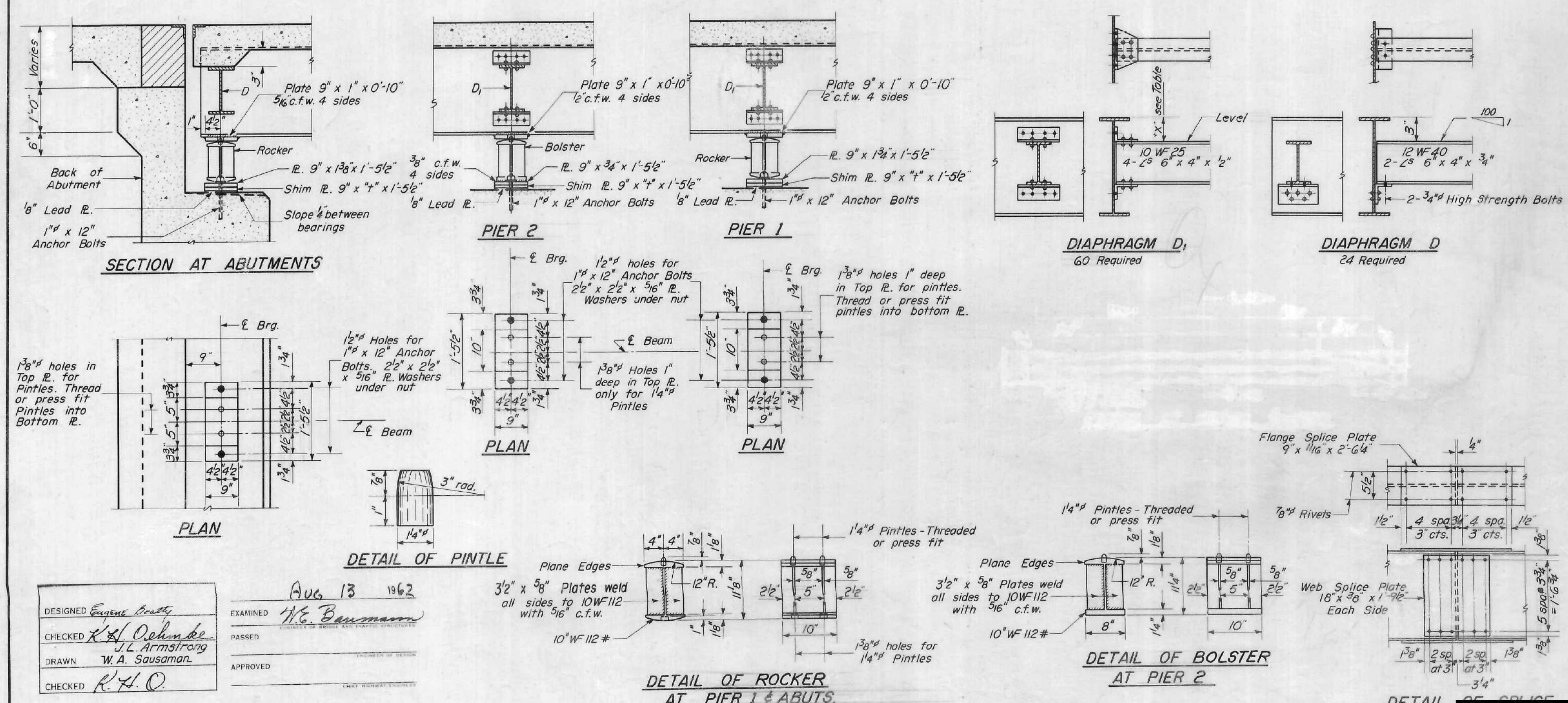


TABLE OF "x" DIMENSIONS

Beams	"x"	Side
1	8 3/16"	South
2	7 3/8"	Both
3	6 9/16"	Both
4	5 3/4"	North
4	8 3/16"	South
5	7 3/8"	Both
6	6 9/16"	Both
7	5 3/4"	North

TABLE OF "t" DIMENSIONS

Location	Beams						
	1	2	3	4	5	6	7
W. Abut.	0	13/16"	0	13/16"	0	13/16"	0
Pier 1	0	13/16"	0	13/16"	0	13/16"	0
Pier 2	0	13/16"	0	13/16"	0	13/16"	0
E. Abut.	0	13/16"	0	13/16"	0	13/16"	0

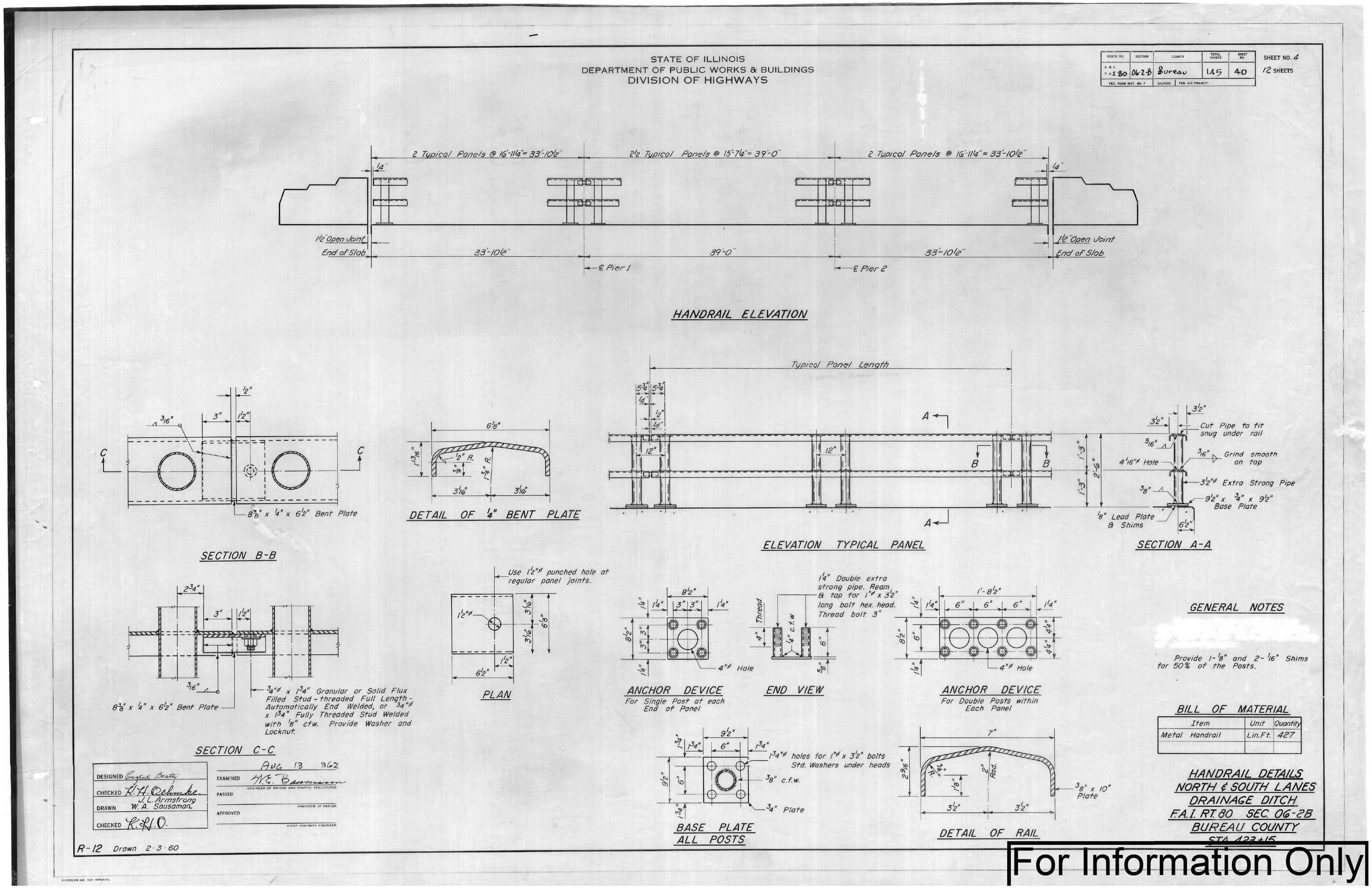
STRUCTURAL STEEL
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2 B
BUREAU COUNTY
STA. 423+15

DESIGNED Eugene Beatty
CHECKED K.H. Oehmke
J.L. Armstrong
DRAWN W.A. Sausaman
CHECKED K.H.O.

EXAMINED Aug. 13 1962 W.E. Baumann
PASSED
APPROVED

I-2 Re-drawn 8-18-59

For Information Only



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DLZ Illinois, Inc.
8430 W. Bryn Mawr Ave.
Suite 100
Chicago, IL 60631-3440

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	CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -	
PLOT DATE = 3/7/2022	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190

SHEET 13 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	108

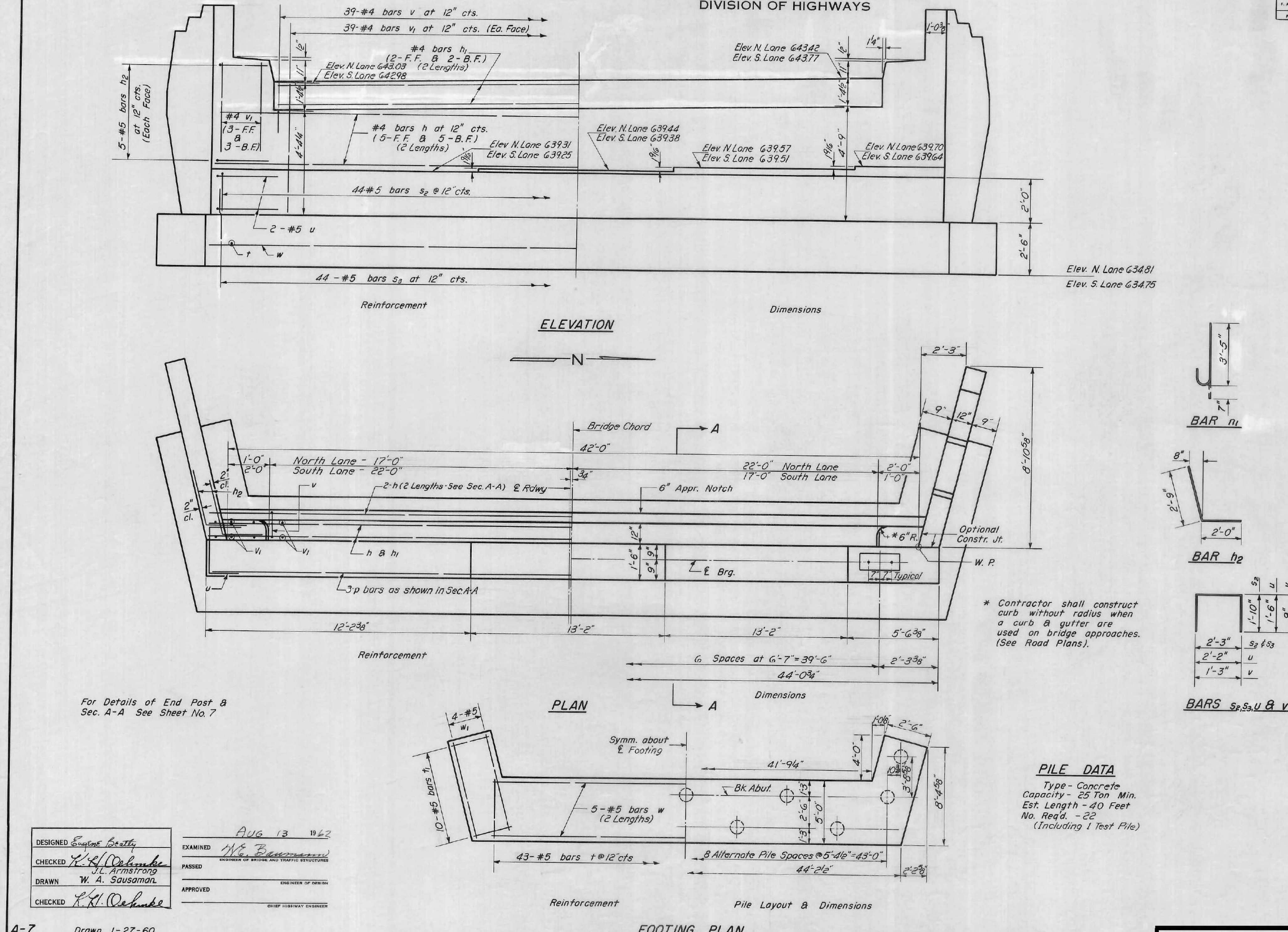
CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2B	Bureau	145	41

SHEET NO. 5
12 SHEETS



* Contractor shall construct curb without radius when a curb & gutter are used on bridge approaches. (See Road Plans).

PILE DATA

Type - Concrete
Capacity - 25 Ton Min.
Est. Length - 40 Feet
No. Reqd. - 22
(Including 1 Test Pile)

TWO ABUTMENTS
BAR LIST

Bar	No.	Size	Length	Shape
h	48	#4	22'-5"	—
h1	16	#4	19'-10"	—
h2	40	#5	4'-9"	∟
n1	40	#5	4'-0"	⊃
p	12	#7	22'-9"	—
s2	88	#5	5'-11"	⊓
s3	88	#5	8'-11"	⊓
t	86	#5	4'-8"	—
t1	40	#5	2'-2"	—
u	8	#5	5'-2"	⊓
v	78	#4	2'-9"	⊓
v1	180	#4	5'-4"	—
w	20	#5	22'-0"	—
w1	16	#5	9'-9"	—

TWO ABUTMENTS
BILL OF MATERIAL

Item	Unit	Quantity
Class X Concrete	Cu. Yds.	83.1
Reinforcement Bars	Lbs.	5880
Concrete Piles	Lin. Ft.	840
Test Piles (Concrete)	Each	1

Note: Bill of Material includes Reinforcement and Class X Concrete for Four End Posts.

WEST ABUTMENTS
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2B
BUREAU COUNTY
STA. 423+15

For Information Only

DESIGNED	Eugene Beatty
CHECKED	K. H. Oehmke, J.L. Armstrong
DRAWN	W. A. Sausaman
CHECKED	K. H. Oehmke

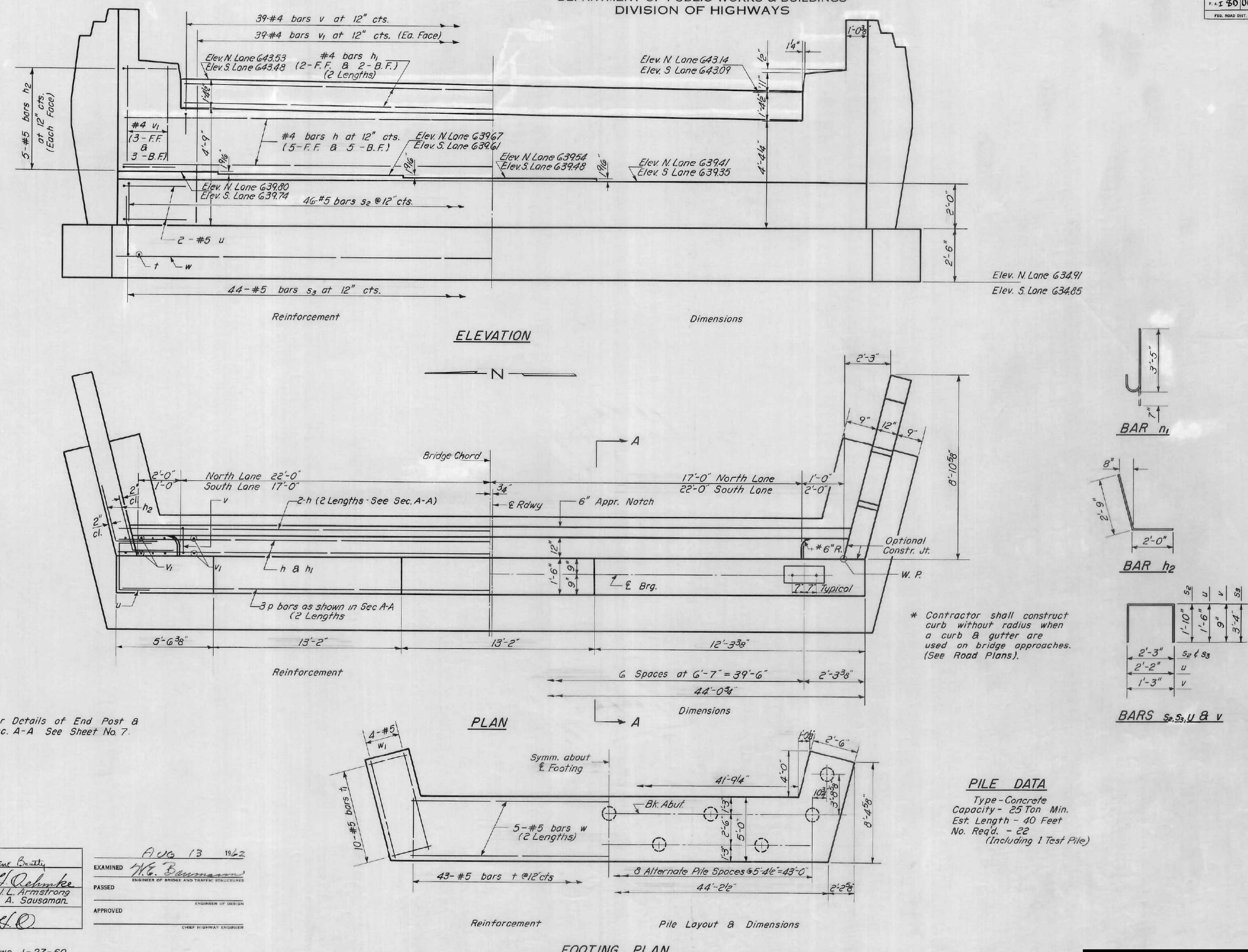
EXAMINED Aug 13 1962 W. E. Baumann
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

A-7 Drawn 1-27-60

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2-B	Bureau	145	42
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
12 SHEETS



TWO ABUTMENTS BAR LIST

Bar	No.	Size	Length	Shape
h	48	#4	22'-5"	—
h_1	16	#4	19'-10"	—
h_2	40	#5	4'-9"	L
n_1	40	#5	4'-0"	⊃
p	12	#7	22'-9"	—
s_2	88	#5	5'-11"	⊓
s_3	88	#5	8'-11"	⊓
t	86	#5	4'-8"	—
t_1	40	#5	2'-2"	—
u	8	#5	5'-2"	⊓
v	78	#4	2'-9"	⊓
v_1	180	#4	5'-4"	—
w	20	#5	22'-0"	—
w_1	16	#5	9'-9"	—

TWO ABUTMENTS BILL OF MATERIAL

Item	Unit	Quantity
Class X Concrete	Cu. Yds.	83.1
Reinforcement Bars	Lbs.	5880
Concrete Piles	Lin. Ft.	840
Test Piles (Concrete)	Each	1

Note: Bill of Material includes Reinforcement and Class X Concrete for Four End Posts.

EAST ABUTMENTS
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2B
BUREAU COUNTY
STA. 423+13

For Information Only

DESIGNED	Eugene Beatty
CHECKED	K.H. Rehmke
	J.L. Armstrong
DRAWN	W. A. Sausaman
CHECKED	K.H.R.

EXAMINED Aug 13 1962 W.E. Baumann ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED ENGINEER OF DESIGN
APPROVED CHIEF HIGHWAY ENGINEER

A-7 Drawn 1-27-60

MODEL: Default
FILE NAME: X:\Projects\2021\2182\217700 IDOT PTB 199-22 D3\WO#2&402 Discipline Files\02 Bridge - 190\02 Pre-Final\Sheets\0060190-66K73-Existing_Plans.dgn

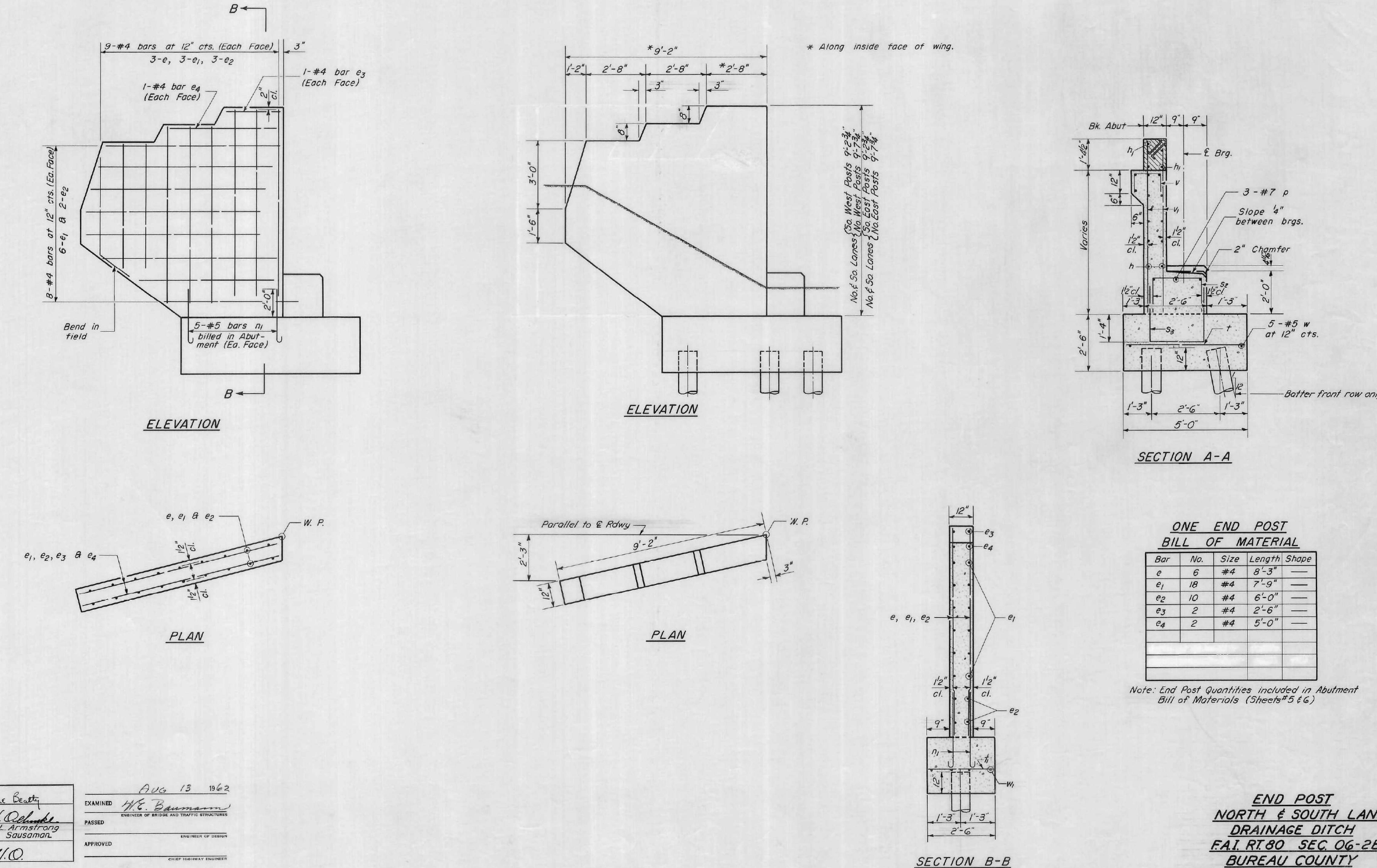
DLZ Illinois, Inc. 8430 W. Bryn Mawr Ave. Suite 100 Chicago, IL 60631-3440	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0190
		CHECKED -	REVISED -		
	PLOT SCALE =	DRAWN -	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED -	REVISED -		SHEET 15 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	110
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2-B	Bureau	145	43

SHEET NO. 7
12 SHEETS



ONE END POST
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	6	#4	8'-3"	—
e_1	18	#4	7'-9"	—
e_2	10	#4	6'-0"	—
e_3	2	#4	2'-6"	—
e_4	2	#4	5'-0"	—

Note: End Post Quantities included in Abutment Bill of Materials (Sheets# 5 & 6)

DESIGNED Eugene Beatty
CHECKED K.J. Ochmke / J.L. Armstrong
DRAWN W. A. Sausaman
CHECKED K.H.O.

EXAMINED AUG 13 1962 W.E. Baumann — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

AW-2 Drawn 2-2-60

END POST
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2B
BUREAU COUNTY
STA 423+15

For Information Only

MODEL: Default
FILE NAME: X:\Projects\2021\2182\217700 IDOT PTB 199-22 D3\WO#2&4\02 Discipline Files\02 Bridge - 190\02 Pre-Final\Sheets\0060190-66K73-Existing_Plans.dgn

DLZ Illinois, Inc. 8430 W. Bryn Mawr Ave. Suite 100 Chicago, IL 60631-3440

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 3/7/2022	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190
SHEET 16 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	111

CONTRACT NO. 66K73
ILLINOIS FED. AID PROJECT

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2-B	Bureau	145	44

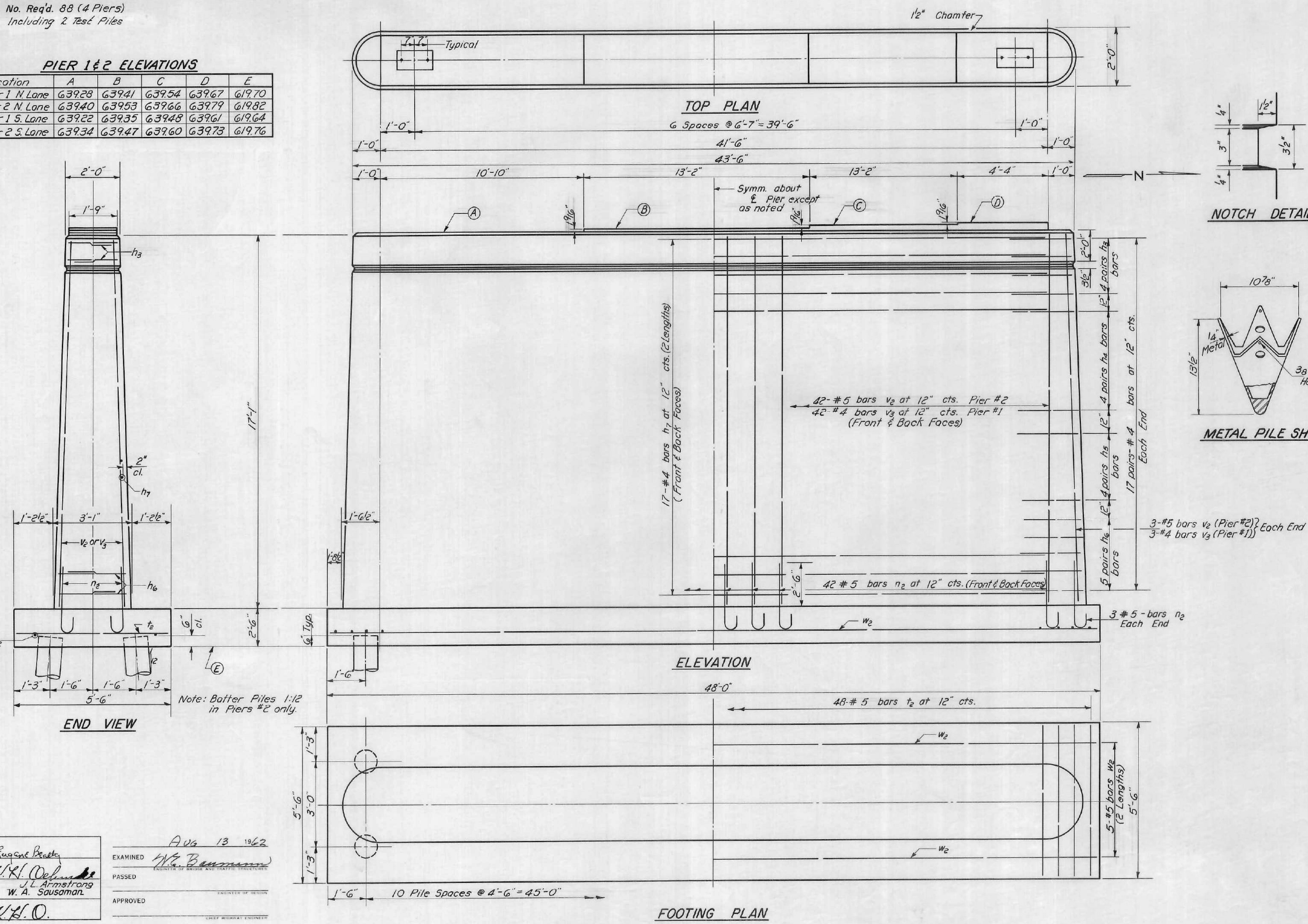
SHEET NO. 8
12 SHEETS

PILE DATA

Type - Untreated Timber
Capacity - 16 Tons
Est. Length 25'-0"
No. Req'd. 88 (4 Piers)
Including 2 Test Piles

PIER 1 & 2 ELEVATIONS

Location	A	B	C	D	E
Pier 1 N. Lane	639.28	639.41	639.54	639.67	619.70
Pier 2 N. Lane	639.40	639.53	639.66	639.79	619.82
Pier 1 S. Lane	639.22	639.35	639.48	639.61	619.64
Pier 2 S. Lane	639.34	639.47	639.60	639.73	619.76



DETAIL OF BARS
$h_3, h_4, h_5 \& h_6$

Bar	R	A
h_3	10½"	1'-10"
h_4	1'-0"	2'-0"
h_5	1'-1½"	2'-3"
h_6	1'-3"	2'-5"

4 PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_3	64	#4	3'-4"	
h_4	64	#4	3'-6"	
h_5	64	#4	3'-9"	
h_6	80	#4	3'-11"	
h_7	272	#4	21'-2"	
n_2	360	#5	5'-0"	
t_2	192	#5	5'-2"	
v_2	180	#5	16'-9"	
v_3	180	#4	16'-9"	
w_2	40	#5	24'-5"	
Class A Concrete			Cu. Yds.	328.3
Reinforcement Bars			Lbs.	13,590
Untreated Piles			Lin. Ft.	2150
Test Piles (Timber)			Each	2
Metal Shoes			Each	86

PIERS 1 & 2
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2B
BUREAU COUNTY
STA. 423+15

DESIGNED Eugene Beaty
CHECKED K.H. Delumbe
DRAWN J. L. Armstrong, W. A. Sausaman
CHECKED K.H.O.
EXAMINED W.E. Baumann, Aug 13 1962
PASSED
APPROVED

P-1 Re-drawn 7-21-59 Rev. 11-25-59

For Information Only

MODEL: Default
FILE NAME: X:\Projects\2021\2182\217700 IDOT PTB 199-22 D3\WO#2&4\02 Discipline Files\02 Bridge - 190\02 Pre-Final\Sheets\0060190-66K73-Existing_Plans.dgn

DLZ Illinois, Inc.
8430 W. Bryn Mawr Ave.
Suite 100
Chicago, IL 60631-3440

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 3/7/2022	CHECKED -	REVISED -

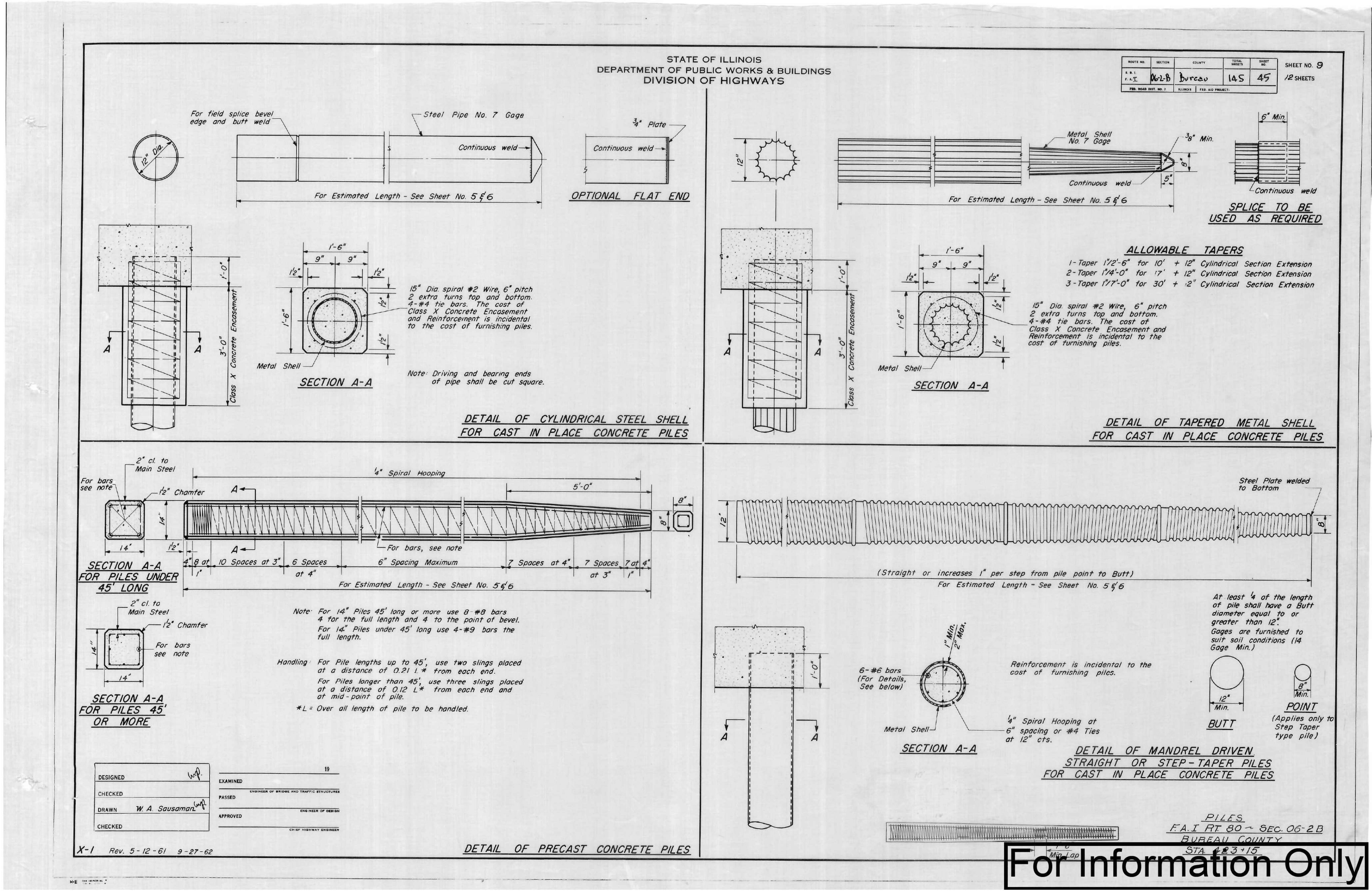
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190

SHEET 17 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	112

CONTRACT NO. 66K73
ILLINOIS FED. AID PROJECT



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DLZ Illinois, Inc. 8430 W. Bryn Mawr Ave. Suite 100 Chicago, IL 60631-3440	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = 3/7/2022	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190

SHEET 18 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	113
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2-B	Bureau	145	46

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

SHEET NO. 10
12 SHEETS

ELEVATIONS TOP OF SLAB

THEORETICAL ELEV. | MODIFIED ELEV. *

NORTH LANE

Stations along Bridge Chord	℄ Beams							℄ Beams						
	1	2	3	4	5	6	7	1	2	3	4	5	6	7
422+62.25 ℄ Brg. W. Abut.	643.43	643.36	643.30	643.23	643.17	643.10	643.04	643.43	643.36	643.30	643.23	643.17	643.10	643.04
422+70.56	643.44	643.37	643.31	643.24	643.18	643.11	643.04	643.45	643.38	643.32	643.25	643.19	643.12	643.05
422+78.88	643.45	643.38	643.32	643.25	643.18	643.12	643.05	643.46	643.39	643.33	643.26	643.19	643.13	643.06
422+81.19	643.46	643.39	643.32	643.26	643.19	643.13	643.06	643.46	643.39	643.32	643.26	643.19	643.13	643.06
422+95.50 Pier #1	643.46	643.40	643.33	643.27	643.20	643.14	643.07	643.46	643.40	643.33	643.27	643.20	643.13	643.07
423+05.25	643.47	643.41	643.34	643.28	643.21	643.14	643.08	643.47	643.41	643.34	643.28	643.21	643.14	643.08
423+15.00	643.48	643.42	643.35	643.29	643.22	643.15	643.09	643.49	643.43	643.36	643.30	643.23	643.16	643.10
423+24.75	643.49	643.43	643.36	643.30	643.23	643.16	643.10	643.49	643.43	643.36	643.30	643.23	643.16	643.10
423+34.50 Pier #2	643.50	643.44	643.37	643.31	643.24	643.17	643.11	643.50	643.44	643.37	643.31	643.24	643.17	643.11
423+42.81	643.51	643.44	643.38	643.31	643.25	643.18	643.12	643.51	643.44	643.38	643.31	643.25	643.18	643.12
423+51.13	643.52	643.45	643.39	643.32	643.26	643.19	643.12	643.53	643.46	643.40	643.33	643.27	643.20	643.13
423+59.44	643.53	643.46	643.40	643.33	643.26	643.20	643.13	643.54	643.47	643.41	643.34	643.27	643.21	643.13
423+67.75 ℄ Brg. E. Abut.	643.54	643.47	643.40	643.34	643.27	643.21	643.14	643.54	643.47	643.40	643.34	643.27	643.21	643.14

*Modified Elevations are the theoretical grade elevations plus the dead load deflections. (concrete only)

SOUTH LANE

Stations along Bridge Chord	℄ Beams							℄ Beams						
	1	2	3	4	5	6	7	1	2	3	4	5	6	7
422+62.25 ℄ Brg. W. Abut.	643.37	643.30	643.24	643.17	643.11	643.04	642.98	643.37	643.30	643.24	643.17	643.11	643.04	642.98
422+70.56	643.38	643.31	643.25	643.18	643.12	643.05	642.98	643.39	643.32	643.26	643.19	643.13	643.06	642.99
422+78.88	643.39	643.32	643.26	643.19	643.12	643.06	642.99	643.40	643.33	643.27	643.20	643.13	643.07	643.00
422+87.19	643.40	643.33	643.26	643.20	643.13	643.07	643.00	643.40	643.33	643.26	643.20	643.13	643.07	643.00
422+95.50 Pier #1	643.40	643.34	643.27	643.21	643.14	643.07	643.01	643.40	643.34	643.27	643.21	643.14	643.07	643.01
423+05.25	643.41	643.35	643.28	643.22	643.15	643.08	643.02	643.41	643.35	643.28	643.22	643.15	643.08	643.02
423+15.00	643.42	643.36	643.29	643.23	643.16	643.09	643.03	643.43	643.37	643.30	643.24	643.17	643.10	643.04
423+24.75	643.43	643.37	643.30	643.24	643.17	643.10	643.04	643.43	643.37	643.30	643.24	643.17	643.10	643.04
423+34.50 Pier #2	643.44	643.38	643.31	643.25	643.18	643.11	643.05	643.44	643.38	643.31	643.25	643.18	643.11	643.05
423+42.81	643.45	643.38	643.32	643.25	643.19	643.12	643.06	643.45	643.38	643.32	643.25	643.19	643.12	643.06
423+51.13	643.46	643.39	643.33	643.26	643.20	643.13	643.06	643.47	643.40	643.34	643.27	643.21	643.14	643.07
423+59.44	643.47	643.40	643.34	643.27	643.20	643.14	643.07	643.48	643.41	643.35	643.28	643.21	643.15	643.08
423+67.75 ℄ Brg. E. Abut.	643.48	643.41	643.34	643.28	643.21	643.15	643.08	643.48	643.41	643.34	643.28	643.21	643.15	643.08

Note: The grade elevations of beams 1 & 7 are the theoretical extension of the floor slab over these beams.

BORING No. 1

Boring No. 1
Boring located at Station 423+60, 44 Ft Rt Centerline.

Description	Elevation	Blows per Foot	Qu.
Surface of Ground.	629.9		
Stiff black silty sandy clay.	626.5		
Free water el. 625.8	625.0		
	624.0	1	
Very soft brown peat, numerous shells.	622.5		
	621.5	1	
	620.0		
	619.0	1	
	618.5		
	617.5		
Very soft black mucky silty clay.	616.5	1	0.29
	615.0		
	614.0	1	0.25
	613.5		
	612.5		
Soft dark gray mucky silty clay. Considerable organic fiber.	611.5	1	0.37
Soft dark gray mucky silty clay. Considerable organic fiber.	610.0		
	609.0	1	0.33
	608.0		
Very dense poorly graded silty sand, occasional pebbles.	607.5		
	606.5	60	
	605.5		
Very dense poorly graded subangular gravel.	605.0		
	604.0	56	
	603.5		
	602.5		
	601.5	26	
	600.0		
	599.0	16	
Medium gray poorly graded subangular gravel.	597.5		
	596.5	14	
	595.0		
	594.0	21	
	592.5		
	591.5	29	
	590.0		
	589.0	21	

Boring No. 1 Cont.

Description	Elevation	Blows per Foot	Qu.
	587.5		
Medium gray poorly graded subangular gravel.	586.5	21	
	585.0		
	584.0	18	
	583.0		
Dense gray poorly graded gravel.	582.5		
	581.5	31	
	581.0		
	580.0		
	579.0	22	
Medium gray poorly graded sand and small gravel.	575.0		
	574.0	14	

BORING No. 2

Boring No. 2
Boring located at Station 423+62, 44 Ft Lt Centerline.

Description	Elevation	Blows per Foot	Qu.
Surface of Ground.	631.6		
Stiff black clayey silt.	628.0		
Loose brown poorly graded sand.	626.5		
	626.0		
	625.5	3	
Brown fiberous peat.	624.0		
	623.0		
	622.5	1	
	621.5		
	620.5	1	0.25
	619.0		
	618.0	3	Rup.
Very soft peaty muck. Contains occasional pebbles.	616.5		
	615.5	1	0.29
	614.0		
	613.0	1	0.21
Very soft peaty muck. Contains occasional pebbles.	611.5		
	610.5	1	Lost
Very dense gray gap-graded fine sand and small gravel.	609.5		
	609.0		
	608.0	75	
	607.0		
	606.5		
	605.5	17	
	601.5		
	600.5	19	
Medium gray poorly graded fine sand and small gravel.	596.5		
	595.5	23	
	591.5		
	590.5	18	

Boring No. 2 Cont.

Description	Elevation	Blows per Foot	Qu.
Medium gray poorly graded fine sand and small gravel.	586.5		
	585.5	25	
	584.5		
	581.5		
Very dense gray subangular poorly graded gravel and cobbles.	580.5	70	
	576.5		
	575.5	96	

DESIGNED Eugene Beaty
CHECKED K.L. Oehmke
DRAWN E.B. J.L. Armstrong
CHECKED K.L.O.

Aug 13 1962
EXAMINED H.E. Baumann
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

TOP OF SLAB ELEVATIONS & BORINGS
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT. 80 SEC. 06-2B
BUREAU COUNTY
STA. 423+15

For Information Only

MODEL: Default
FILE NAME: X:\Projects\2021\2182\217700 IDOT PTB 199-22 D3\WO#2&4\02 Discipline Files\02 Bridge - 190\02 Pre-Final\Sheets\0060190-66K73-Existing_Plans.dgn

DLZ Illinois, Inc.
8430 W. Bryn Mawr Ave. Suite 100
Chicago, IL 60631-3440
ARCHITECTURE•ENGINEERING•PLANNING SURVEYING • CONSTRUCTION SERVICES

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 3/7/2022	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190
SHEET 19 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	114

CONTRACT NO. 66K73
ILLINOIS | FED. AID PROJECT

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2-B	Bureau	145	47

SHEET NO 11
12 SHEETS

BORING No. 3

Boring No. 3
Boring located at Station 422+98, 45 Ft Lt Centerline.

Description	Elevation	Blows per Foot	Qu.
Surface of Ground.	633.2		
Stiff black clayey silt.	630.0		
Very loose brown fine sand.	627.0		
Very loose gray coarse sand, peaty.	624.0		
Very soft gray-brown peaty muck.	623.0 – 622.0	1	0.20
	620.5 – 619.5	1	0.16
	619.0		
Very soft gray muck.	618.0 – 617.0	1	0.20
	615.5 – 614.5	1	0.24
	613.0 – 612.0	1	
Very soft gray muck.	611.0		
Stiff gray clayey silt.	610.5 – 609.5	5	1.02
	609.0		
Very dense gray poorly graded gravel.	608.0 – 607.0	69	
	603.0 – 602.0	55	
	600.5		
Dense gray poorly graded gravel.	598.0 – 597.0	36	
	596.0		
Medium gray poorly graded sand and small gravel.	593.0 – 592.0	26	

Boring No. 3 Cont.

Description	Elevation	Blows per Foot	Qu.
Medium gray poorly graded sand and small gravel.	588.0 – 587.0	29	
	585.0		
Very dense gray silty sand.	583.0 – 582.0	74	
	581.0		
Very dense gray silt.	578.0 – 577.0	80	

BORING No.4

Boring No. 4
Boring located at Station 422+72, 44 Ft Lt Centerline.

Description	Elevation	Blows per Foot	Qu.
Surface of Ground.	634.9		
Stiff black sand silty clay.	631.5		
Very loose brown sand, some peat.	630.0 – 629.0	3	
	628.5		
Loose gray coarse peaty sand.	627.5 – 626.5	4	
	626.0		
Very soft gray silty muck.	625.0 – 624.0	2	0.20
	622.5 – 621.5	1	0.20
	621.0		
Soft gray silty muck.	620.0 – 619.0	1	0.45
	617.5 – 616.5	1	0.41
	616.0		
Very soft gray silty muck.	615.0 – 614.0	1	0.20
	613.5		
Stiff gray very silty clay.	612.5 – 611.5	7	1.10
	611.0		
Very dense gray gap-graded gravel.	610.0 – 609.0	77	
	605.0 – 604.0	67	
	601.0		
Dense gray poorly graded fine sand and small gravel.	600.0 – 599.0	48	
	595.0 – 594.0	32	

Boring No. 4 Cont.

Description	Elevation	Blows per Foot	Qu.
Dense gray poorly graded fine sand and small gravel.	590.0 – 589.0	38	
	586.0		
Very dense gray silt.	585.0 – 584.0	100	

BORING No.5

Boring No. 5
Boring located at Station 422+97, 44 Ft Rt Centerline.

Description	Elevation	Blows per Foot	Qu.
Surface of Ground.	632.7		
Stiff black and brown sandy clayey silt.	628.5		
Loose brown peaty sand.	625.5		
Very soft brown peat.	622.5 – 621.5	1	
	620.5		
Very loose gray silty muck with shells.	620.0 – 619.0	1	
	618.5		
Soft gray silty muck.	617.5 – 616.5	1	0.29
	615.0 – 614.0	1	0.25
	613.5		
Very soft gray silty muck.	612.5 – 611.5	1	0.16
	610.5		
Very dense gray gap-graded sand and small gravel.	610.0 – 609.0	50	
	607.5 – 606.5	51	
	605.0 – 604.0	53	
	603.5		
Medium gray subangular well graded sand and occasional small gravel.	602.5 – 601.5	17	
	597.5 – 596.5	14	
	592.5 – 591.5	26	

Boring No. 5 Cont.

Description	Elevation	Blows per Foot	Qu.
Medium gray subangular well graded sand and occasional gravel.	587.5 – 586.5	26	
	582.5 – 581.5	27	
	577.5 – 576.5	28	
	572.5 – 571.5	26	

BORING No. 6

Boring No. 6
Boring located at Station 422+68, 44 Ft Rt Centerline.

Description	Elevation	Blows per Foot	Qu.
Surface of Ground.	632.1		
Stiff dark brown sandy clayey silt.	628.0		
Very soft brown peat.	527.0 – 626.0	1	0.20
	624.5 – 623.5	1	0.16
	622.0 – 621.0	1	0.16
	620.5		
Very soft gray mucky silt, numerous shells.	619.5 – 618.5	1	0.12
	617.0 – 616.0	1	Rup.
	614.5 – 613.5	2	Lost
Very soft gray mucky silt. Numerous shells.	612.0 – 611.0	1	0.20
	610.0		
Very dense gray poorly graded silty sand and occasional small gravel.	609.5 – 608.5	58	
	607.0 – 606.0	56	
	604.0		
Medium gray subangular well graded sand and occasional gravel.	602.0 – 601.0	19	
	597.0 – 596.0	19	
	592.0 – 591.0	29	

Boring No. 6 Cont.

Description	Elevation	Blows per Foot	Qu.
	587.0 – 586.0	29	
Medium gray subangular well graded sand and occasional gravel.	582.0 – 581.0	25	
	577.0 – 576.0	28	

DESIGNED Eugene Beatty
CHECKED R.H. Oelmke
DRAWN J.L. Armstrong
CHECKED R.H.O.

AUG 13 1962
EXAMINED W.E. Baumann
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

BORING DATA
NORTH & SOUTH LANES
DRAINAGE DITCH
F.A.I. RT.80 SEC. 06-2B
BUREAU COUNTY
STA. 423+15

For Information Only

MODEL: Default
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DLZ Illinois, Inc.
8430 W. Bryn Mawr Ave. Suite 100
Chicago, IL 60631-3440

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 3/7/2022	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0190
SHEET 20 OF 21 SHEETS

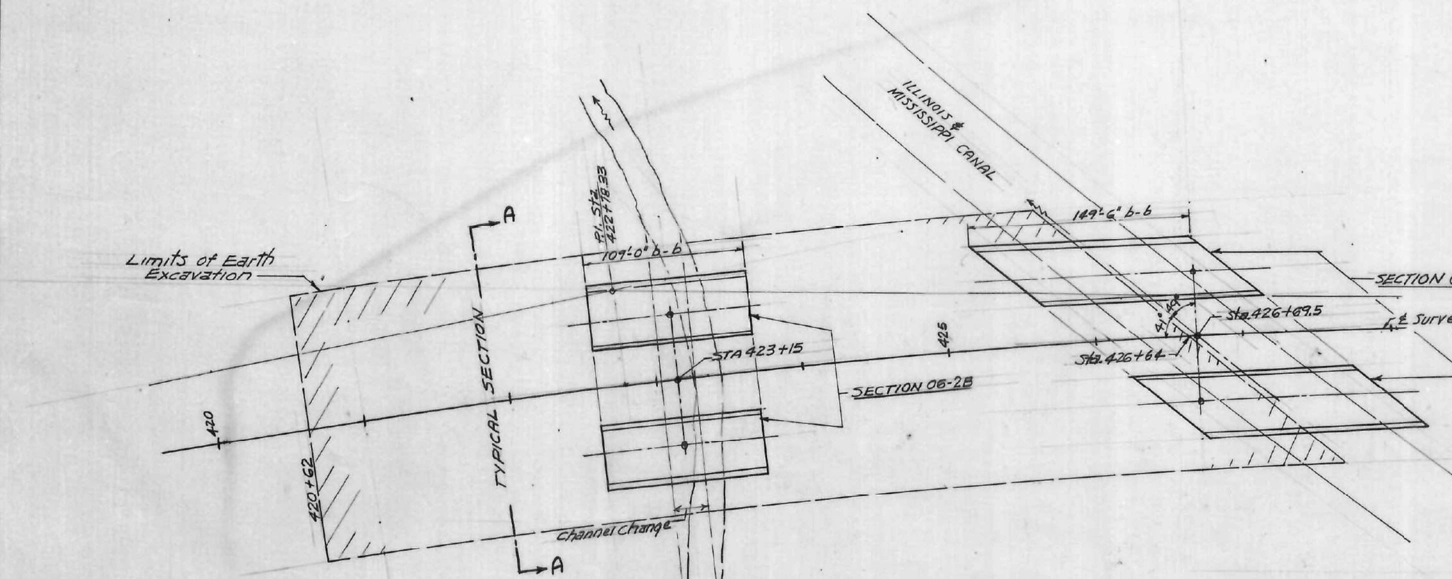
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	115

CONTRACT NO. 66K73
ILLINOIS FED. AID PROJECT

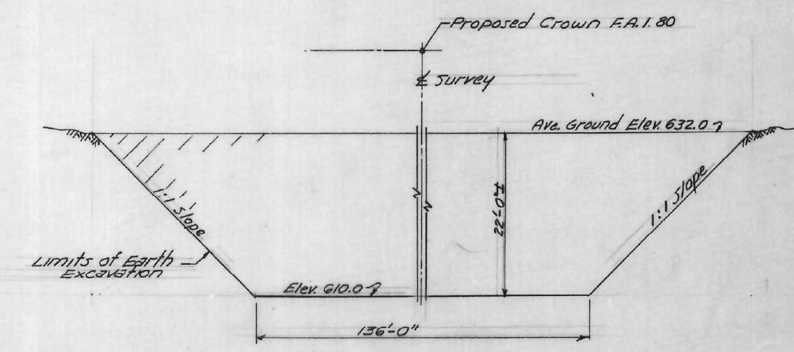
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.I-80	06-2-B	Bureau	145	48
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 12
12 SHEETS

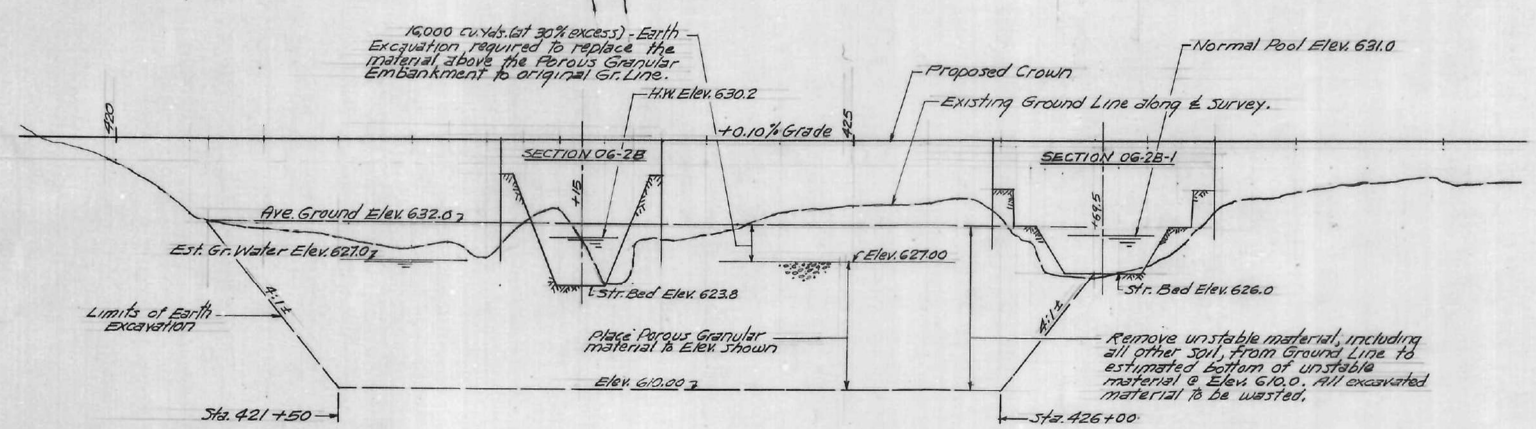


PLAN
Scale 1" = 50'



TYPICAL SECTION A-A

NOTES
Make cuts for equipment entrances stations 420+50 - 421+50 and 426+00 - 426+40.



ELEVATION
Horizontal Scale 1" = 50'-0"
Vertical Scale 1" = 10'-0"

QUANTITIES

ITEM		TOTAL
Earth Excavation (Waste)	Cu. Yds.	60,604
Porous Granular Embankment	Cu. Yds.	48,240

DESIGNED	
CHECKED	
DRAWN	JTR
CHECKED	

Aug 13 1962
EXAMINED W. E. Baumann
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

REMOVAL UNSTABLE SOIL
STA. 421+00 - 426+00
F.A.I. RT. 80 - SECTION 06-2B
BUREAU COUNTY
STATION 423+15

For Information Only

MODEL: Default
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DLZ Illinois, Inc. 8430 W. Bryn Mawr Ave. Suite 100 Chicago, IL 60631-3440
ARCHITECTURE & ENGINEERING & PLANNING SURVEYING & CONSTRUCTION SERVICES

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 3/7/2022	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

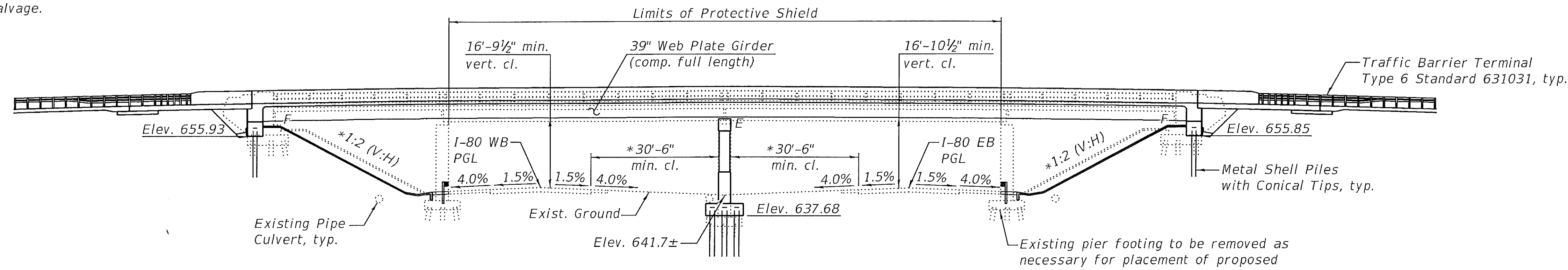
EXISTING PLANS
STRUCTURE NO. 006-0190
SHEET 21 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-2HB)BR	BUREAU	202	116
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

Benchmark: Cross in concrete. Sta. 18+65.83, 17.63' right. Elev. 664.992.

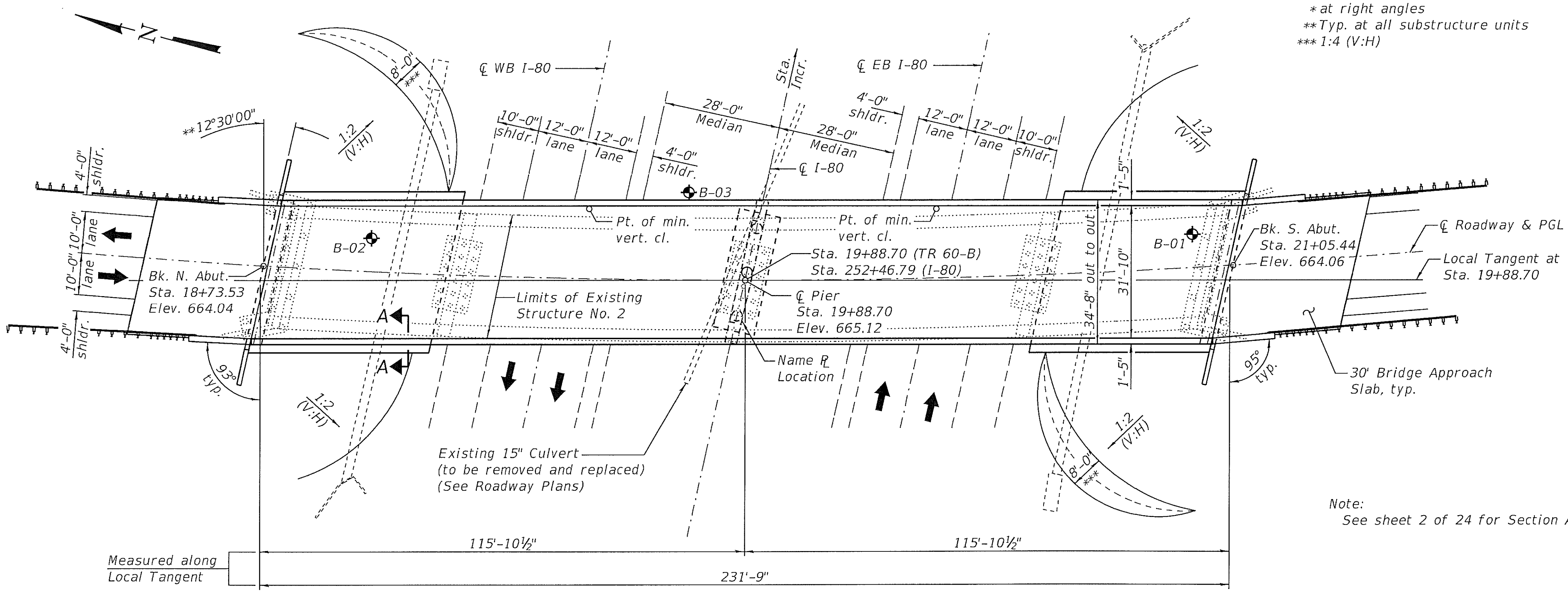
Existing Structure: SN 006-0121 originally built in 1962 as Section 06-1HB-2. The structure is a 4-span steel beam bridge on stub abutments founded on concrete piles and solid wall piers founded on timber piles. The length of the structure 223'-2" bk. to bk. abutments. The width is 29'-8" out to out. Traffic to be detoured with the bridge closed during construction.

No salvage.



ELEVATION

*at right angles
**Typ. at all substructure units
***1:4 (V:H)



Note:
See sheet 2 of 24 for Section A-A.

PLAN

INDEX OF SHEETS

CURVE DATA
TR 60-B

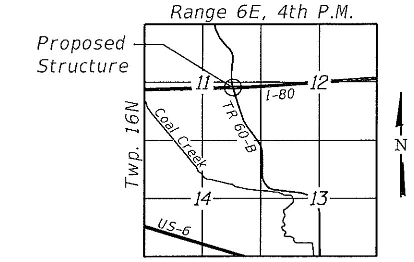
P.I. Sta. = 17+56.32
Δ = 24° 48' 11" (LT)
D = 2° 59' 59"
R = 1,910.08'
T = 420.01'
L = 826.87'
E = 45.63'
S.E. Run = 2.5%
P.C. Sta. = 13+36.31
P.T. Sta. = 21+63.18

CURVE DATA
F.A.I. 80

P.I. Sta. = 252+22.22
Δ = 2° 32' 00"
D = 0° 10' 00"
R = 34,377.50'
T = 760.12'
L = 1,520.00'
E = 8.40'
P.C. Sta. = 244+62.10
P.T. Sta. = 259+82.10

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
081-005991
CHATHAM
STATE OF ILLINOIS

Michael T. Haley
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 081-005991
Expires 11/30/2022
APPLIES TO DWG NUMBERS: 117-154
Date: 3/7/2022



LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.061g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.116g
Soil Site Class = D

GENERAL PLAN AND ELEVATION
TR 60-B (470 ST. E.) OVER I-80
F.A.I. RTE. 80 - SEC. (06-1HB)BR
BUREAU COUNTY
STATION 19+88.70
STRUCTURE NO. 006-0191

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		CHECKED - MTH	REVISED -	
	PLOT SCALE =	DRAWN - AJF	REVISED -	
	PLOT DATE = 3/14/2022	CHECKED - MTH	REVISED -	

SHEET 1 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	117
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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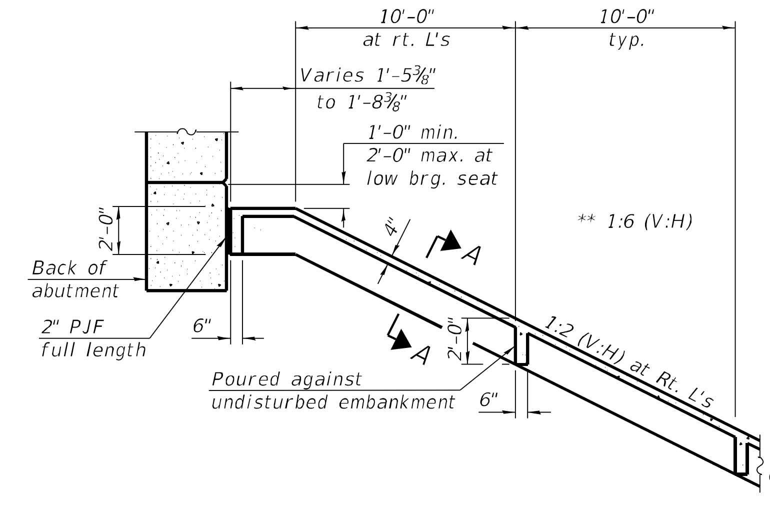
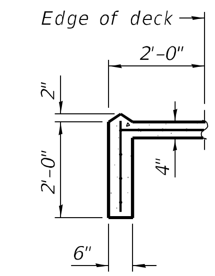
GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts ⅞ in. Ø, holes 15/16 in. Ø, unless otherwise noted.
2. Calculated weight of Structural Steel = 297,990 lbs (AASHTO M270, Grade 50)
   22,930 lbs (AASHTO M270, Grade 36)
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ⅛ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
7. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. 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.
8. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 2	Each	1	-	1
Protective Shield	Sq. Yd.	456	-	456
Structure Excavation	Cu. Yd.	-	240	240
Concrete Structures	Cu. Yd.	-	137.0	137.0
Concrete Superstructure	Cu. Yd.	319.2	-	319.2
Bridge Deck Grooving	Sq. Yd.	961	-	961
Protective Coat	Sq. Yd.	1,266	-	1,266
Concrete Superstructure (Approach Slab)	Cu. Yd.	94.4	-	94.4
Furnishing and Erecting Structural Steel	L Sum	0.50	-	0.50
Stud Shear Connectors	Each	2,862	-	2,862
Reinforcement Bars, Epoxy Coated	Pound	107,100	26,620	133,720
Slope Wall 4 Inch	Sq. Yd.	-	405	405
Furnishing Metal Shell Piles 14"x0.312"	Foot	-	1,294	1,294
Driving Piles	Foot	-	1,294	1,294
Test Pile Metal Shells	Each	-	3	3
Pile Shoes	Each	-	30	30
Name Plates	Each	1	-	1
Elastomeric Bearing Assembly, Type I	Each	-	6	6
Anchor Bolts, 1"	Each	-	24	24
Anchor Bolts, 1½"	Each	-	12	12
Granular Backfill for Structures	Cu. Yd.	-	152.0	152.0
Geocomposite Wall Drain	Sq. Yd.	-	78	78
Pipe Underdrains for Structures, 4"	Foot	-	147	147

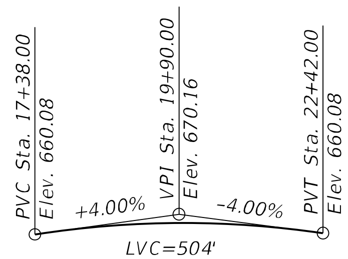




SECTION A-A

SECTION THRU CONCRETE SLOPEWALL

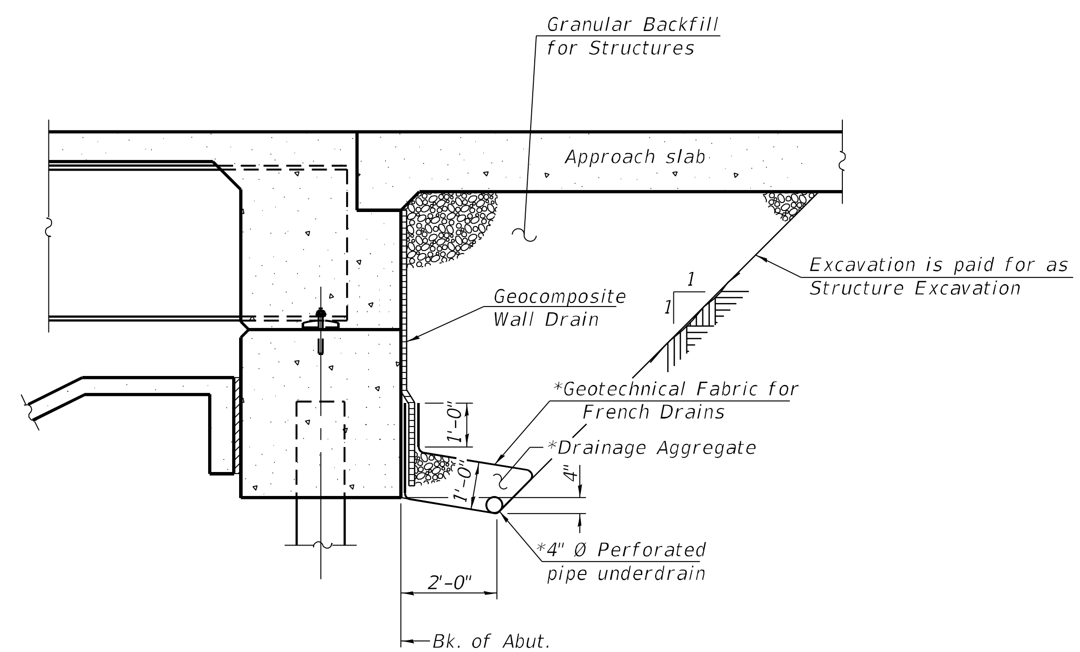
Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



PROFILE GRADE
Along ℄ TR 60-B

EXISTING EB I-80 PROFILE GRADE
(Along ℄ EB I-80)

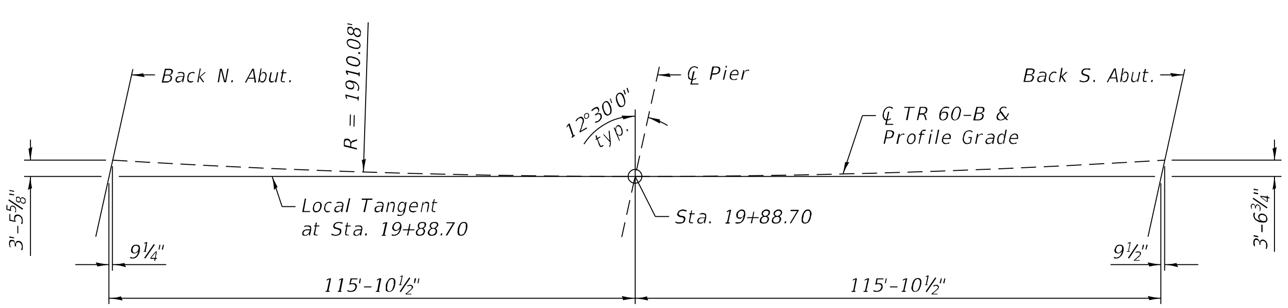
EXISTING WB I-80 PROFILE GRADE
(Along ℄ WB I-80)



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



OFFSET SKETCH

STATION 19+88.70
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 80 - SEC. (06-1HB)BR
LOADING HL-93
STRUCTURE NO. 006-0191

NAME PLATE
See Std. 515001

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	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 2 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	118
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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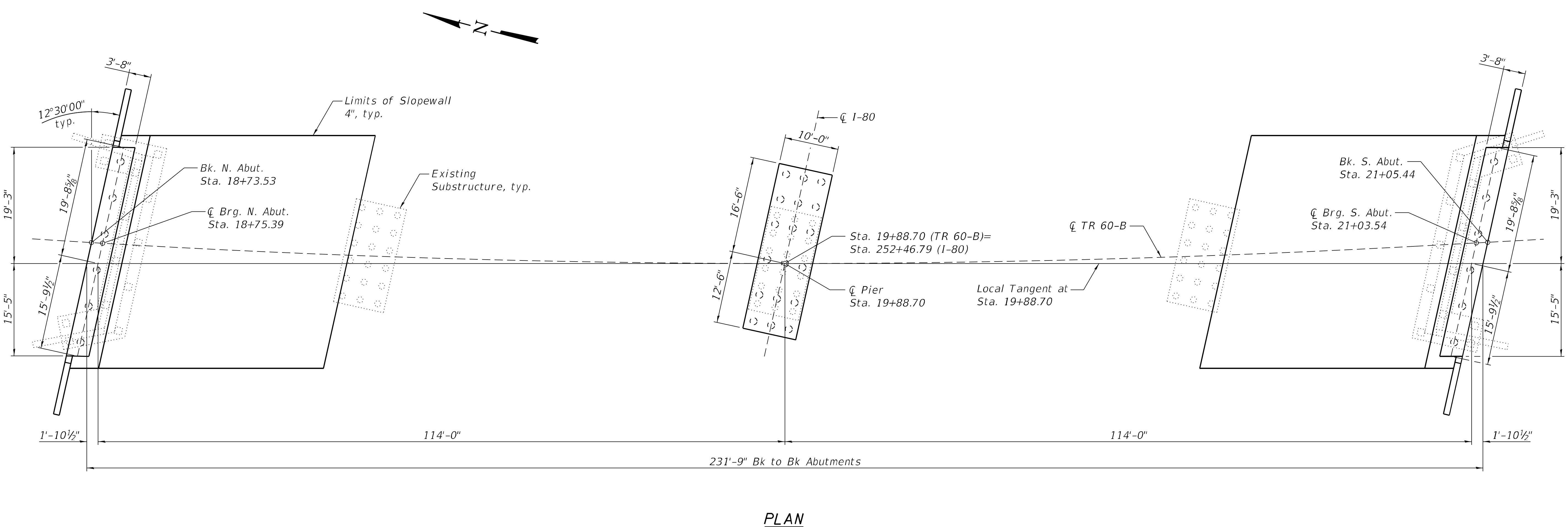

PLAN

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LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOOTING LAYOUT STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 3 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	119
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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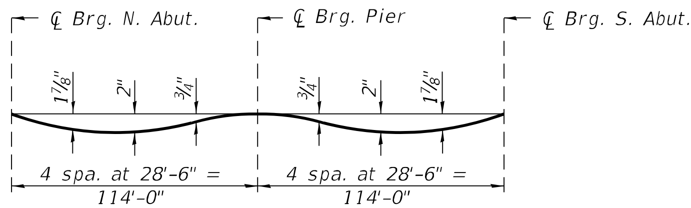
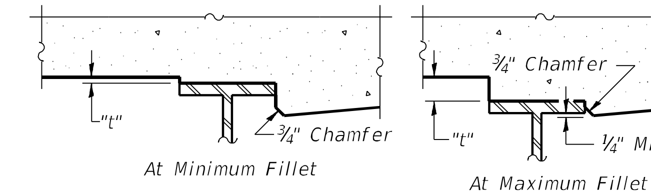


DEAD LOAD DEFLECTION DIAGRAM

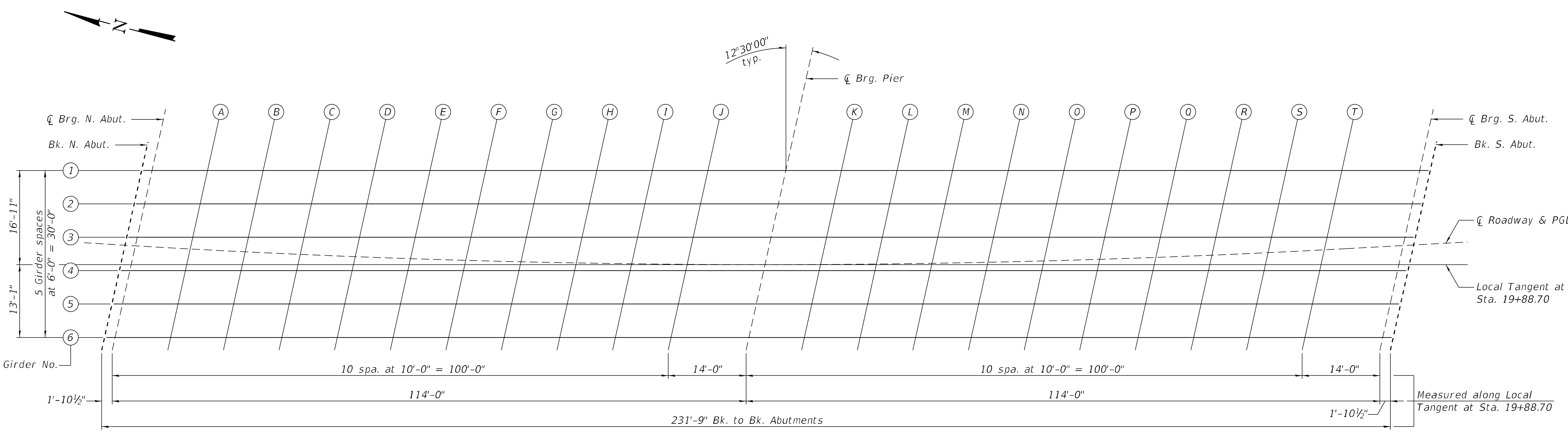
(Includes weight of concrete only.)

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 sheets 5 and 6 of 24.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 5 and 6 of 24, minus slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS



PLAN

(Sheet 1 of 3)

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+75.71	-13.60	663.74	663.74
℄ Brg. N. Abut.	18+77.60	-13.71	663.77	663.77
A	18+87.66	-14.26	663.93	663.99
B	18+97.72	-14.77	664.07	664.19
C	19+07.79	-15.22	664.20	664.35
D	19+17.86	-15.61	664.32	664.48
E	19+27.94	-15.96	664.42	664.58
F	19+38.02	-16.25	664.50	664.65
G	19+48.10	-16.49	664.57	664.68
H	19+58.19	-16.68	664.62	664.70
I	19+68.28	-16.81	664.66	664.71
J	19+78.37	-16.89	664.69	664.71
℄ Brg. Pier	19+92.49	-16.91	664.70	664.70
K	20+02.58	-16.87	664.69	664.70
L	20+12.67	-16.77	664.66	664.69
M	20+22.75	-16.62	664.62	664.69
N	20+32.84	-16.41	664.56	664.67
O	20+42.92	-16.15	664.49	664.63
P	20+53.00	-15.84	664.41	664.57
Q	20+63.08	-15.48	664.31	664.48
R	20+73.15	-15.07	664.19	664.35
S	20+83.21	-14.60	664.07	664.19
T	20+93.28	-14.08	663.92	664.00
℄ Brg. S. Abut.	21+07.35	-13.26	663.70	663.70
Bk. S. Abut.	21+09.24	-13.14	663.66	663.66

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+74.73	-7.53	663.88	663.88
℄ Brg. N. Abut.	18+76.61	-7.64	663.91	663.91
A	18+86.64	-8.20	664.07	664.13
B	18+96.67	-8.71	664.21	664.33
C	19+06.71	-9.17	664.34	664.50
D	19+16.75	-9.57	664.45	664.64
E	19+26.79	-9.92	664.55	664.74
F	19+36.84	-10.22	664.64	664.80
G	19+46.89	-10.46	664.71	664.84
H	19+56.95	-10.65	664.77	664.86
I	19+67.00	-10.79	664.81	664.86
J	19+77.06	-10.88	664.83	664.85
℄ Brg. Pier	19+91.14	-10.92	664.85	664.85
K	20+01.20	-10.88	664.84	664.85
L	20+11.25	-10.78	664.81	664.85
M	20+21.31	-10.64	664.78	664.85
N	20+31.36	-10.44	664.72	664.84
O	20+41.41	-10.19	664.66	664.80
P	20+51.46	-9.89	664.57	664.75
Q	20+61.51	-9.54	664.48	664.66
R	20+71.55	-9.13	664.36	664.54
S	20+81.58	-8.67	664.24	664.38
T	20+91.61	-8.16	664.10	664.19
℄ Brg. S. Abut.	21+05.64	-7.35	663.87	663.87
Bk. S. Abut.	21+07.53	-7.24	663.84	663.84

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+73.76	-1.46	664.01	664.01
℄ Brg. N. Abut.	18+75.64	-1.57	664.04	664.04
A	18+85.63	-2.14	664.20	664.27
B	18+95.63	-2.65	664.35	664.47
C	19+05.64	-3.11	664.48	664.64
D	19+15.64	-3.52	664.59	664.77
E	19+25.66	-3.88	664.69	664.87
F	19+35.67	-4.18	664.78	664.94
G	19+45.69	-4.43	664.85	664.98
H	19+55.72	-4.63	664.91	665.00
I	19+65.74	-4.78	664.95	665.00
J	19+75.76	-4.87	664.98	665.00
℄ Brg. Pier	19+89.80	-4.92	665.00	665.00
K	19+99.82	-4.88	664.99	665.00
L	20+09.85	-4.80	664.97	665.01
M	20+19.87	-4.66	664.93	665.01
N	20+29.89	-4.47	664.88	664.99
O	20+39.91	-4.23	664.82	664.97
P	20+49.93	-3.94	664.74	664.91
Q	20+59.94	-3.59	664.64	664.83
R	20+69.95	-3.19	664.53	664.70
S	20+79.96	-2.74	664.41	664.55
T	20+89.96	-2.24	664.27	664.36
℄ Brg. S. Abut.	21+03.95	-1.44	664.05	664.05
Bk. S. Abut.	21+05.82	-1.33	664.02	664.02

Note:
Stations and offsets are measured along ℄ roadway.

(Sheet 2 of 3)

℄ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+73.53	0.00	664.04	664.04
℄ Brg. N. Abut.	18+75.39	0.00	664.08	664.08
A	18+85.28	0.00	664.25	664.31
B	18+95.18	0.00	664.41	664.53
C	19+05.08	0.00	664.55	664.71
D	19+15.00	0.00	664.67	664.85
E	19+24.93	0.00	664.78	664.96
F	19+34.87	0.00	664.88	665.04
G	19+44.81	0.00	664.96	665.09
H	19+54.77	0.00	665.02	665.11
I	19+64.74	0.00	665.07	665.12
J	19+74.72	0.00	665.10	665.12
℄ Brg. Pier	19+88.70	0.00	665.12	665.12
K	19+98.71	0.00	665.11	665.12
L	20+08.73	0.00	665.09	665.13
M	20+18.76	0.00	665.05	665.13
N	20+28.80	0.00	665.00	665.11
O	20+38.86	0.00	664.93	665.08
P	20+48.92	0.00	664.84	665.02
Q	20+59.01	0.00	664.74	664.93
R	20+69.10	0.00	664.62	664.79
S	20+79.21	0.00	664.49	664.63
T	20+89.34	0.00	664.34	664.43
℄ Brg. S. Abut.	21+03.54	0.00	664.10	664.10
Bk. S. Abut.	21+05.44	0.00	664.06	664.06

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+72.80	4.61	664.14	664.14
℄ Brg. N. Abut.	18+74.67	4.49	664.18	664.18
A	18+84.63	3.92	664.34	664.40
B	18+94.60	3.41	664.48	664.60
C	19+04.57	2.94	664.61	664.78
D	19+14.55	2.53	664.73	664.91
E	19+24.53	2.16	664.83	665.01
F	19+34.51	1.85	664.92	665.08
G	19+44.50	1.60	665.00	665.12
H	19+54.49	1.39	665.05	665.14
I	19+64.48	1.24	665.10	665.15
J	19+74.47	1.14	665.13	665.15
℄ Brg. Pier	19+88.46	1.08	665.15	665.15
K	19+98.46	1.11	665.14	665.15
L	20+08.45	1.19	665.12	665.16
M	20+18.44	1.32	665.09	665.16
N	20+28.44	1.50	665.04	665.15
O	20+38.42	1.73	664.98	665.13
P	20+48.41	2.02	664.90	665.07
Q	20+58.39	2.36	664.81	664.99
R	20+68.37	2.75	664.70	664.87
S	20+78.35	3.19	664.58	664.72
T	20+88.32	3.69	664.44	664.53
℄ Brg. S. Abut.	21+02.26	4.47	664.23	664.23
Bk. S. Abut.	21+04.13	4.58	664.20	664.20

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+71.84	10.68	664.28	664.28
℄ Brg. N. Abut.	18+73.70	10.56	664.31	664.31
A	18+83.63	9.99	664.47	664.54
B	18+93.57	9.46	664.62	664.74
C	19+03.51	8.99	664.75	664.91
D	19+13.45	8.57	664.87	665.05
E	19+23.40	8.20	664.97	665.15
F	19+33.36	7.89	665.06	665.22
G	19+43.31	7.63	665.14	665.27
H	19+53.27	7.41	665.20	665.29
I	19+63.23	7.25	665.24	665.30
J	19+73.19	7.15	665.28	665.30
℄ Brg. Pier	19+87.14	7.08	665.30	665.30
K	19+97.10	7.10	665.29	665.30
L	20+07.06	7.17	665.28	665.31
M	20+17.03	7.29	665.24	665.32
N	20+26.99	7.47	665.20	665.31
O	20+36.94	7.70	665.14	665.29
P	20+46.90	7.97	665.06	665.24
Q	20+56.85	8.30	664.97	665.16
R	20+66.80	8.69	664.87	665.04
S	20+76.74	9.12	664.75	664.89
T	20+86.68	9.61	664.62	664.71
℄ Brg. S. Abut.	21+00.59	10.38	664.41	664.41
Bk. S. Abut.	21+02.45	10.49	664.38	664.38

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	18+70.89	16.75	664.41	664.41
℄ Brg. N. Abut.	18+72.74	16.63	664.44	664.44
A	18+82.64	16.05	664.61	664.67
B	18+92.55	15.52	664.75	664.86
C	19+02.46	15.05	664.89	665.03
D	19+12.37	14.62	665.01	665.17
E	19+22.29	14.25	665.11	665.28
F	19+32.21	13.93	665.20	665.35
G	19+42.13	13.66	665.28	665.40
H	19+52.06	13.44	665.34	665.42
I	19+61.99	13.27	665.39	665.44
J	19+71.92	13.16	665.42	665.44
℄ Brg. Pier	19+85.82	13.09	665.45	665.45
K	19+95.76	13.10	665.44	665.45
L	20+05.69	13.16	665.43	665.46
M	20+15.62	13.27	665.40	665.47
N	20+25.55	13.44	665.36	665.46
O	20+35.47	13.66	665.30	665.43
P	20+45.40	13.93	665.22	665.38
Q	20+55.32	14.25	665.14	665.30
R	20+65.24	14.63	665.04	665.19
S	20+75.15	15.06	664.92	665.05
T	20+85.06	15.53	664.79	664.87
℄ Brg. S. Abut.	20+98.92	16.29	664.59	664.59
Bk. S. Abut.	21+00.78	16.40	664.56	664.56

Note:
Stations and offsets are measured along ℄ roadway.

(Sheet 3 of 3)

EAST EDGE OF SHOULDER

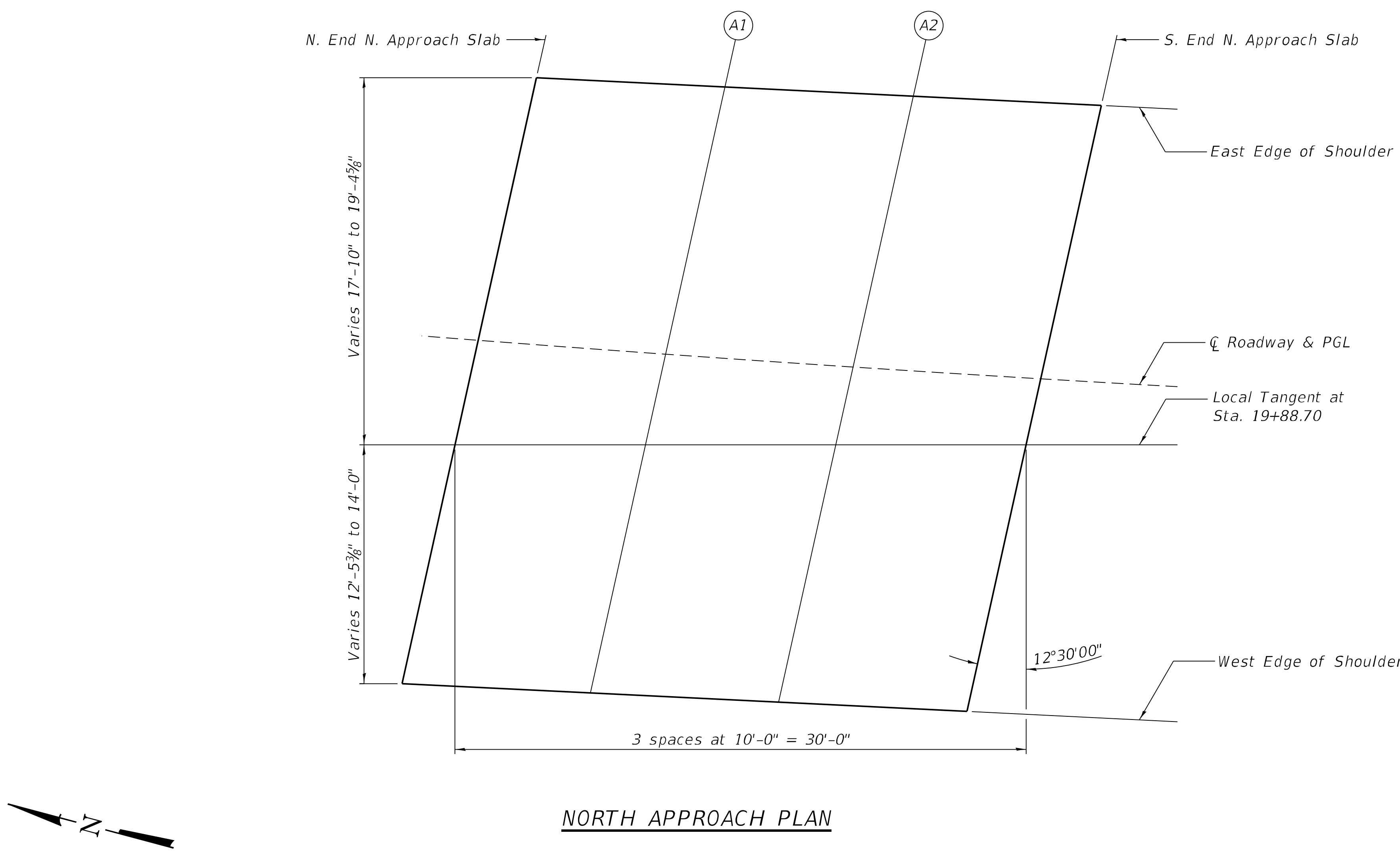
Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach Slab	18+46.97	-14.17	663.14
A1	18+56.94	-14.36	663.36
A2	18+66.91	-14.50	663.56
S. End N. Approach Slab	18+76.89	-14.59	663.74

℄ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach Slab	18+44.92	0.00	663.45
A1	18+54.78	0.00	663.67
A2	18+64.66	0.00	663.87
S. End N. Approach Slab	18+74.54	0.00	664.06

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Approach Slab	18+42.34	18.10	663.84
A1	18+52.14	17.89	664.06
A2	18+61.95	17.73	664.26
S. End N. Approach Slab	18+71.75	17.61	664.45



NORTH APPROACH PLAN

Note:
Stations and offsets are measured along ℄ roadway.

(Sheet 1 of 2)

LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF APPROACH SLAB ELEVATIONS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 7 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	123
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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EAST EDGE OF SHOULDER

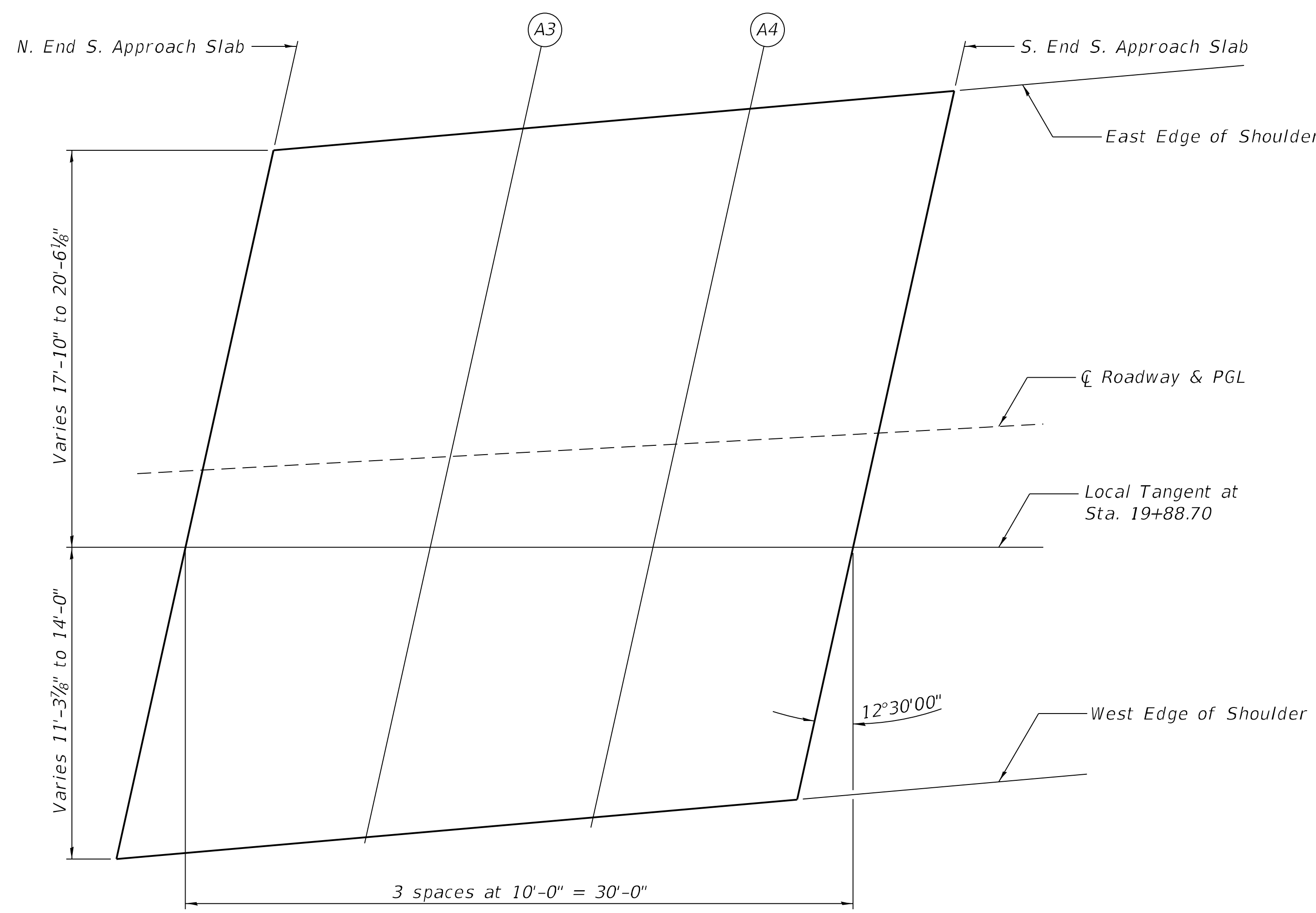
Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach Slab	21+08.47	-14.11	663.65
A3	21+18.78	-14.33	663.45
A4	21+29.09	-14.50	663.22
S. End S. Approach Slab	21+39.41	-14.61	662.98

℄ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach Slab	21+04.40	0.00	664.08
A3	21+14.56	0.00	663.89
A4	21+24.74	0.00	663.68
S. End S. Approach Slab	21+34.94	0.00	663.45

WEST EDGE OF SHOULDER

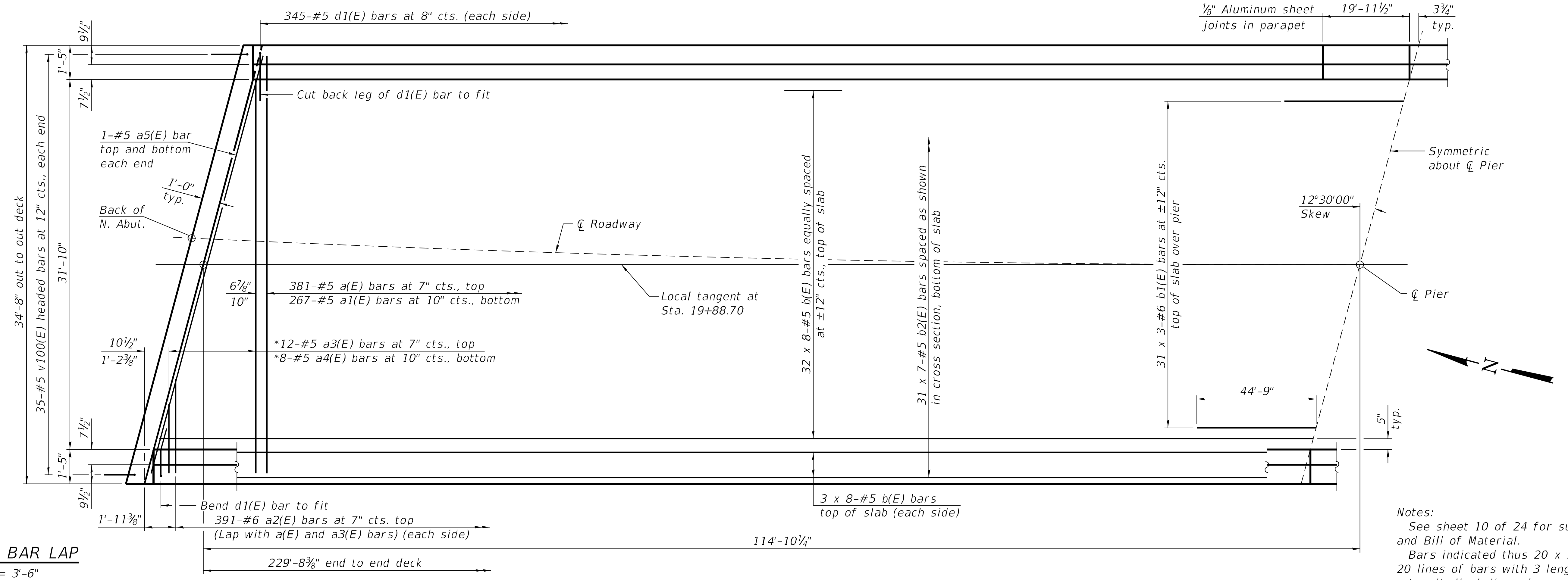
Location	Station	Offset	Theoretical Grade Elevations
N. End S. Approach Slab	20+99.51	17.24	664.60
A3	21+09.66	16.97	664.41
A4	21+19.80	16.75	664.20
S. End S. Approach Slab	21+29.95	16.59	663.98



SOUTH APPROACH PLAN

Note:
Stations and offsets are measured along ℄ roadway.

(Sheet 2 of 2)



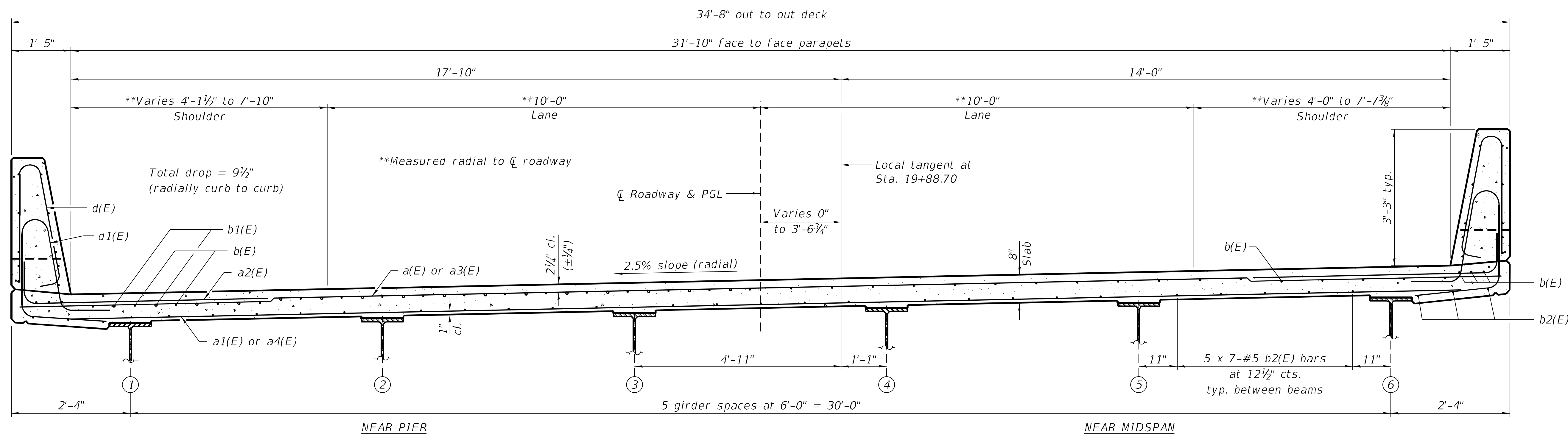
MINIMUM BAR LAP

#5 bar = 3'-6"
#6 bar = 3'-7"

* See Field Cutting Diagram on sheet 10 of 24.

PARTIAL PLAN

Notes:
See sheet 10 of 24 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.
Longitudinal dimensions are measured along local tangent.
Transverse dimensions are measured perpendicular to local tangent unless noted otherwise.



CROSS SECTION

(Looking South)
(Stud Shear Connectors not shown for clarity)

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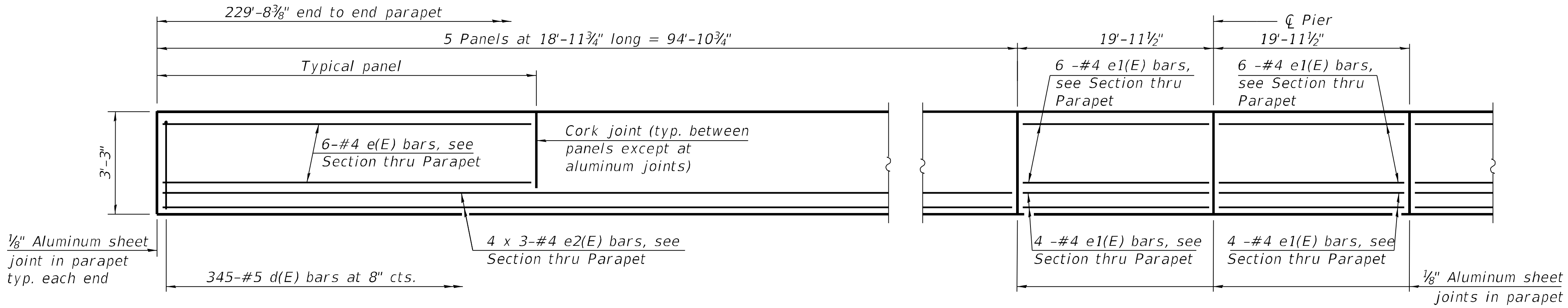
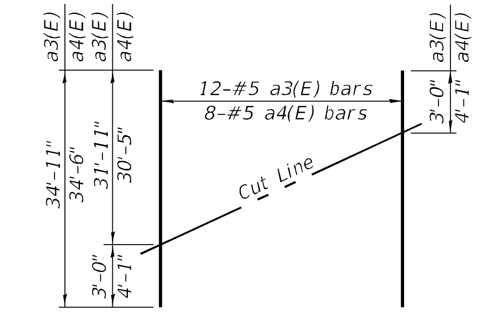
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 9 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	125
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET

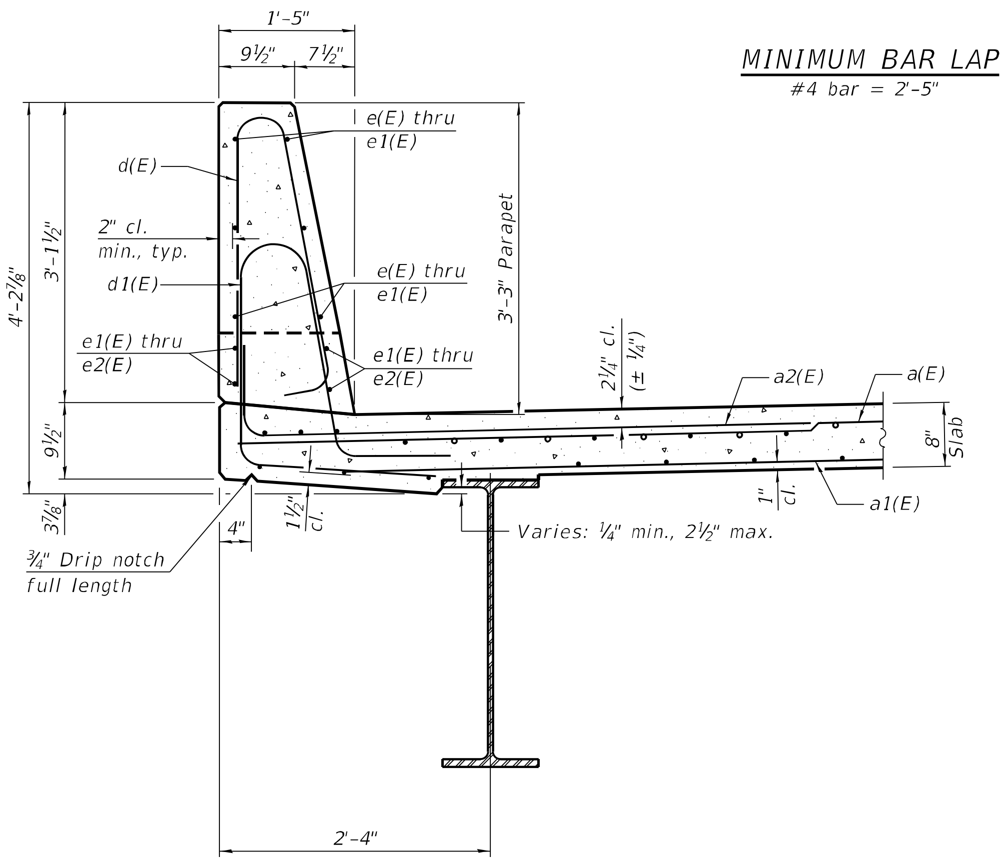


FIELD CUTTING DIAGRAM

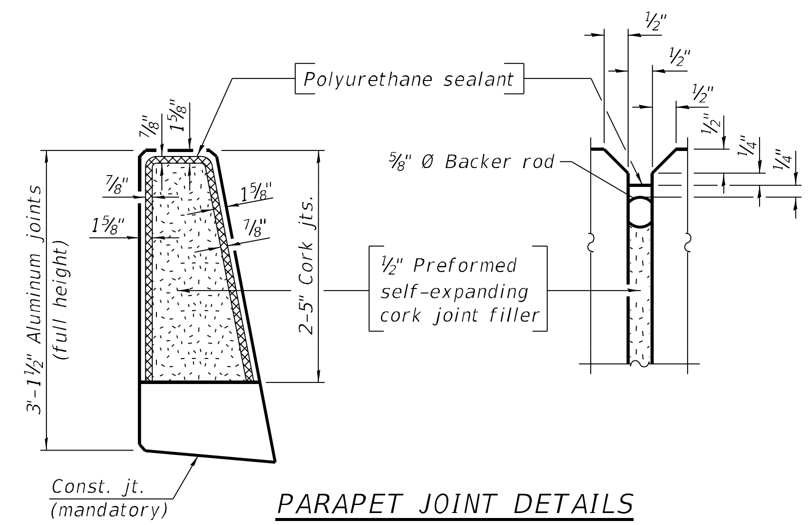
Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

MINIMUM BAR LAP

#4 bar = 2'-5"



SECTION THRU PARAPET



PARAPET JOINT DETAILS

Notes:

The ⅛" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

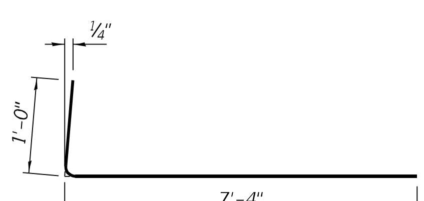
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

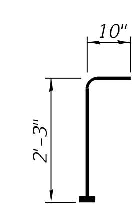
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	381	#5	34'-4"	
a1(E)	267	#5	33'-8"	
a2(E)	782	#6	8'-4"	
a3(E)	12	#5	34'-11"	
a4(E)	8	#5	34'-6"	
a5(E)	4	#5	34'-2"	
b(E)	304	#5	31'-9"	
b1(E)	93	#6	32'-3"	
b2(E)	217	#5	35'-9"	
d(E)	690	#5	6'-5"	
d1(E)	690	#5	7'-7"	
e(E)	120	#4	18'-8"	
e1(E)	40	#4	19'-8"	
e2(E)	48	#4	33'-3"	
m10(E)	10	#6	35'-0"	
m11(E)	40	#6	5'-9"	
m12(E)	16	#6	2'-0"	
s10(E)	68	#5	7'-8"	
s11(E)	68	#5	11'-2"	
v100(E)	70	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	71,990	
Concrete Superstructure		Cu. Yds.	311.4	

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

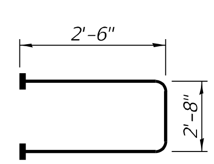


BAR a2(E)



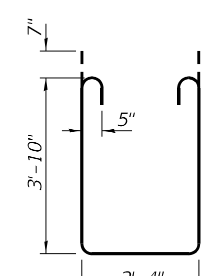
BAR v100(E)

(Headed)

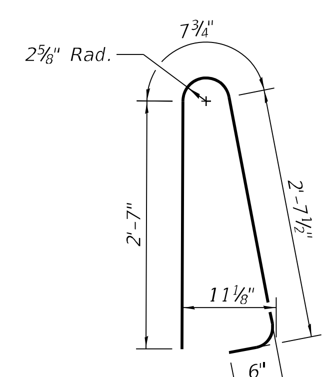


BAR s10(E)

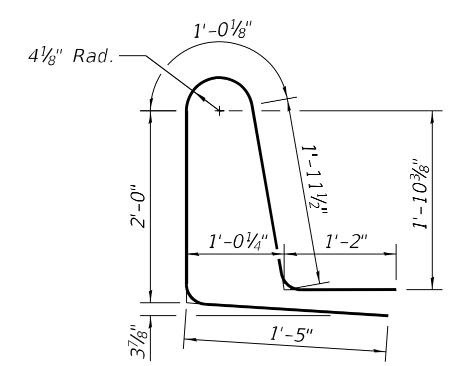
(Headed)



BAR s11(E)



BAR d(E)



BAR d1(E)

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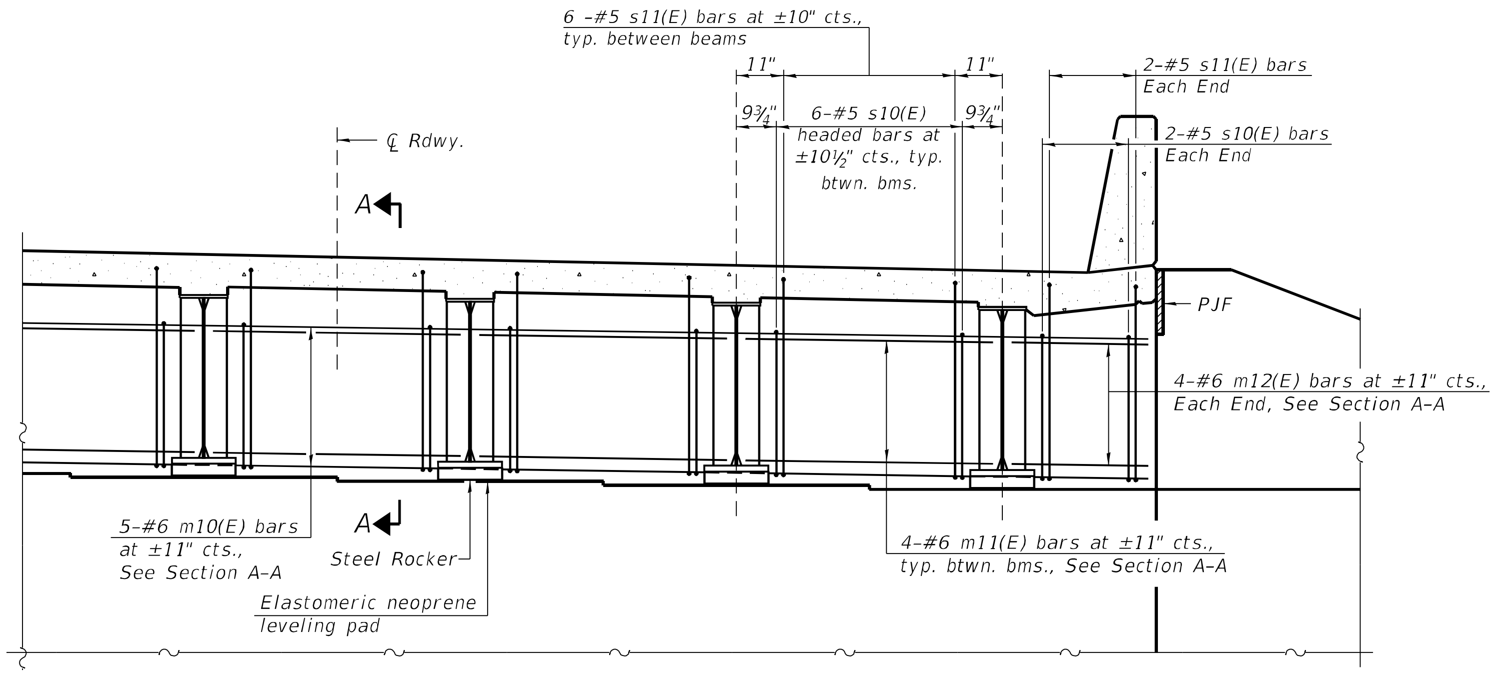
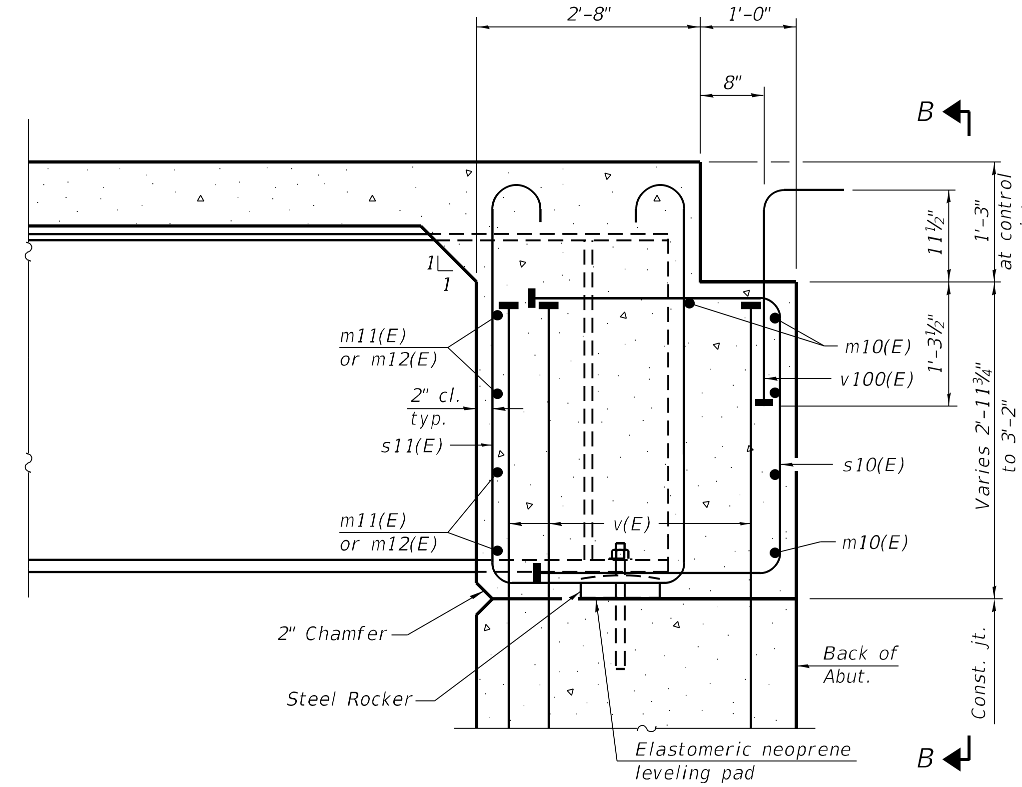
		CHECKED - MTH	REVISED -			80	(06-1HB)BR	BUREAU	202	126
	PLOT SCALE =	DRAWN - AJF	REVISED -					CONTRACT NO. 66K73		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 10 OF 24 SHEETS			ILLINOIS FED. AID PROJECT		



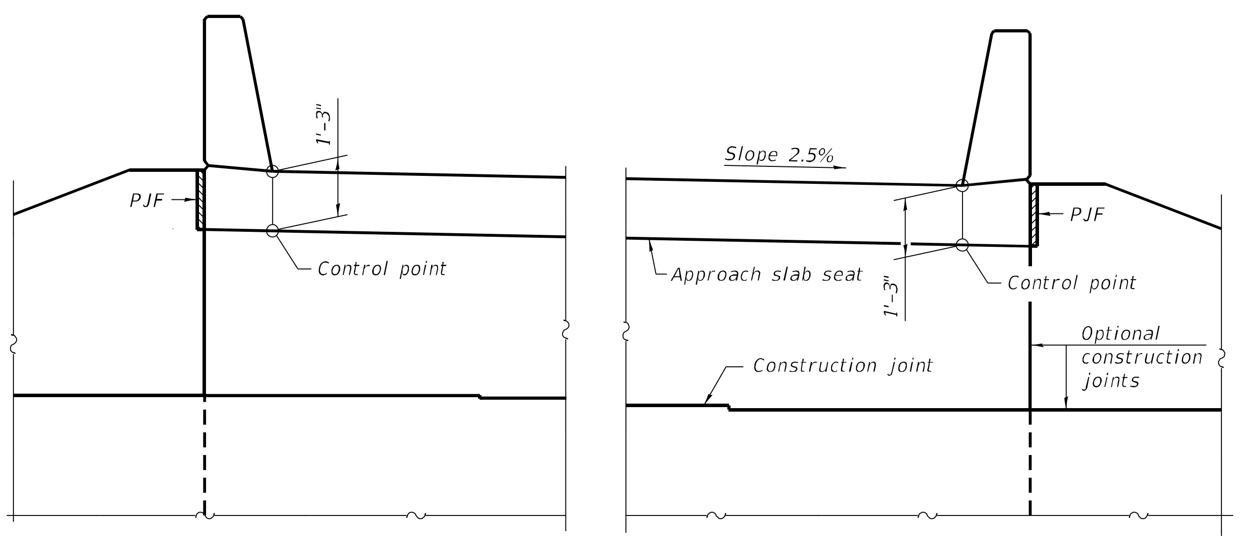
DIAPHRAGM AT ABUTMENT

(Looking North)



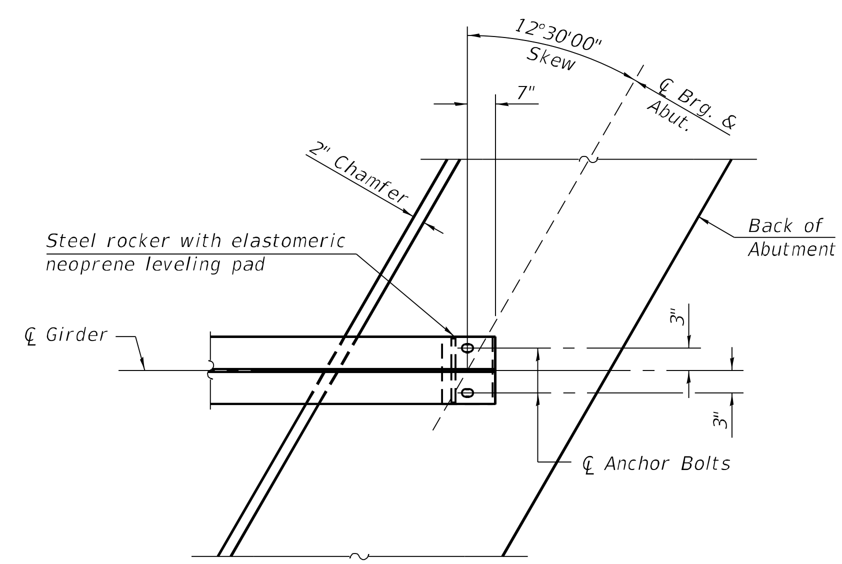
SECTION A-A

(at Rt. ∠'s)



VIEW B-B

(Looking North)



PLAN AT ABUTMENT

(Showing bottom flange of girder)

Notes:

See sheet 10 of 24 for superstructure details and Bill of Material.

See sheet 12 of 24 for PJF details.

The s10(E) and s11(E) bars shall be placed parallel to the girders. Spacing for these bars shall be at right angles to the girders.

The approach slab seat shall have a constant slope determined from the control points shown.

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		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 11 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	127
		CONTRACT NO. 66K73		
	ILLINOIS	FED. AID PROJECT		

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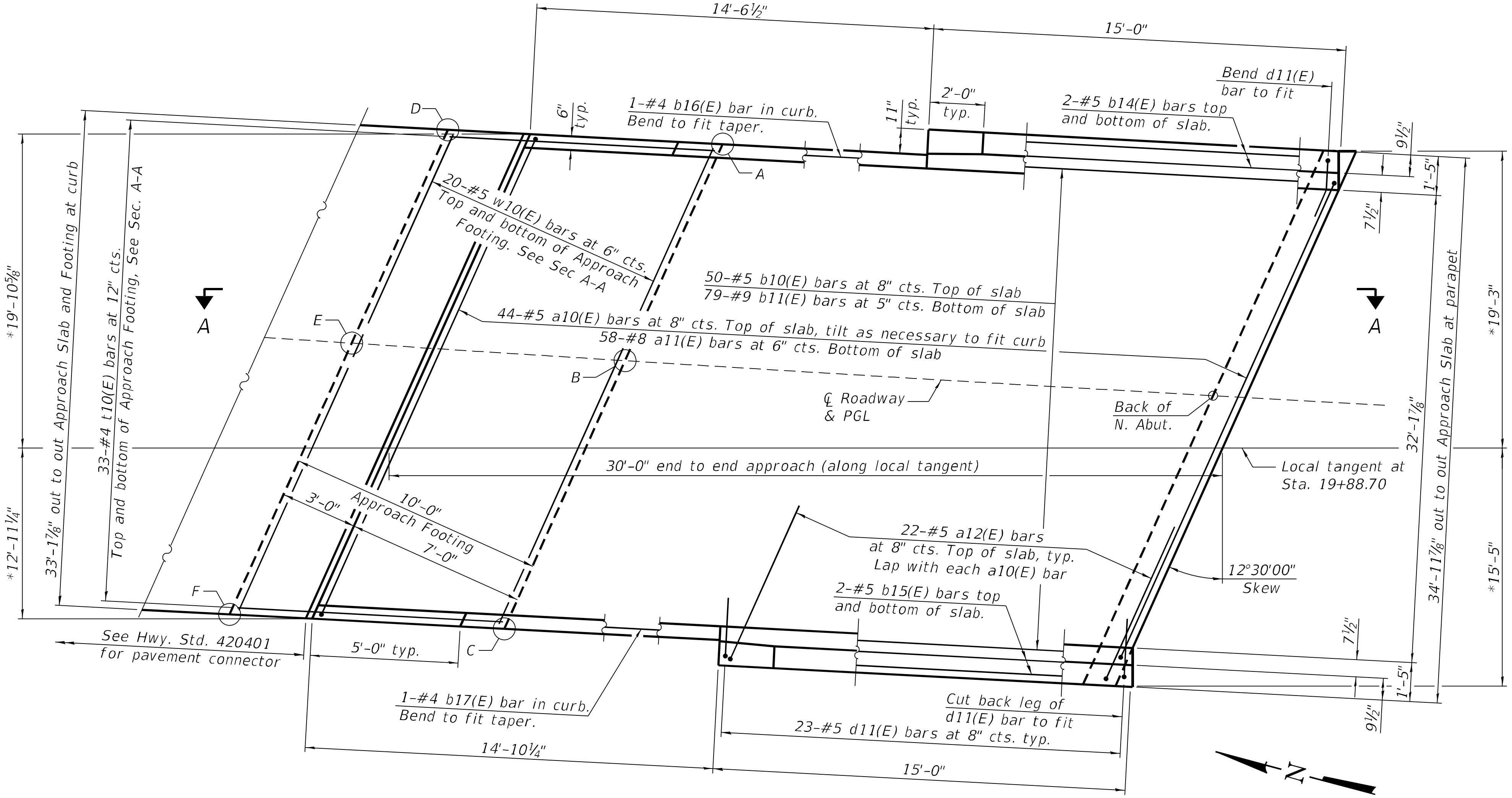


NORTH APPROACH PLAN

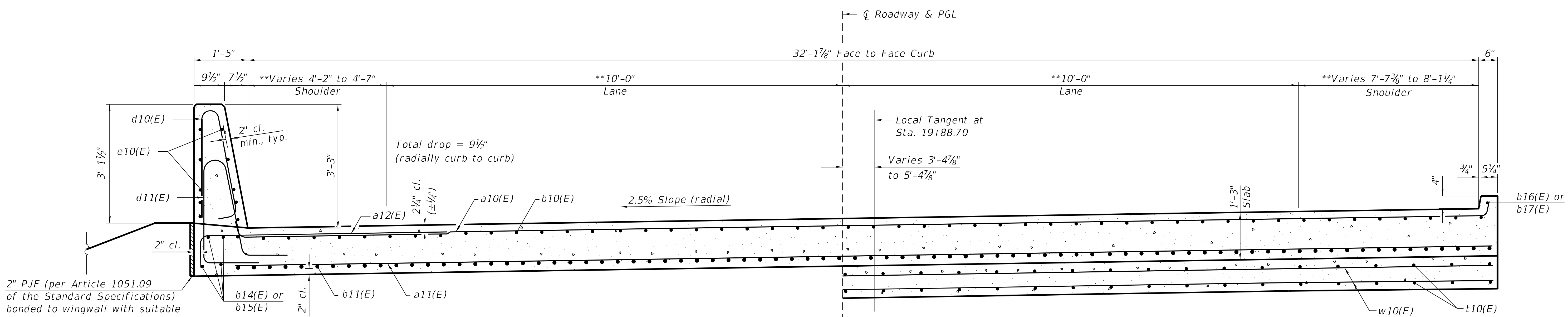
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	North Approach	
Point	Top	Bottom
A	662.03	661.20
B	662.35	661.52
C	662.76	661.92
D	661.81	660.98
E	662.13	661.30
F	662.54	661.70

Notes:
See sheet 14 of 24 for Section A-A and Approach Slab details.
Transverse dimensions measured at right angles to barrier unless noted otherwise.
Longitudinal dimensions measured parallel to barrier unless noted otherwise.

* measured at right angles to local tangent

** measured radial to ℄ Roadway



CROSS SECTION

(Looking South)

(Sheet 1 of 3)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - MTH	REVISED -	
	PLOT SCALE =	DRAWN - AJF	REVISED -	
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -	

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0191

SHEET 12 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	128
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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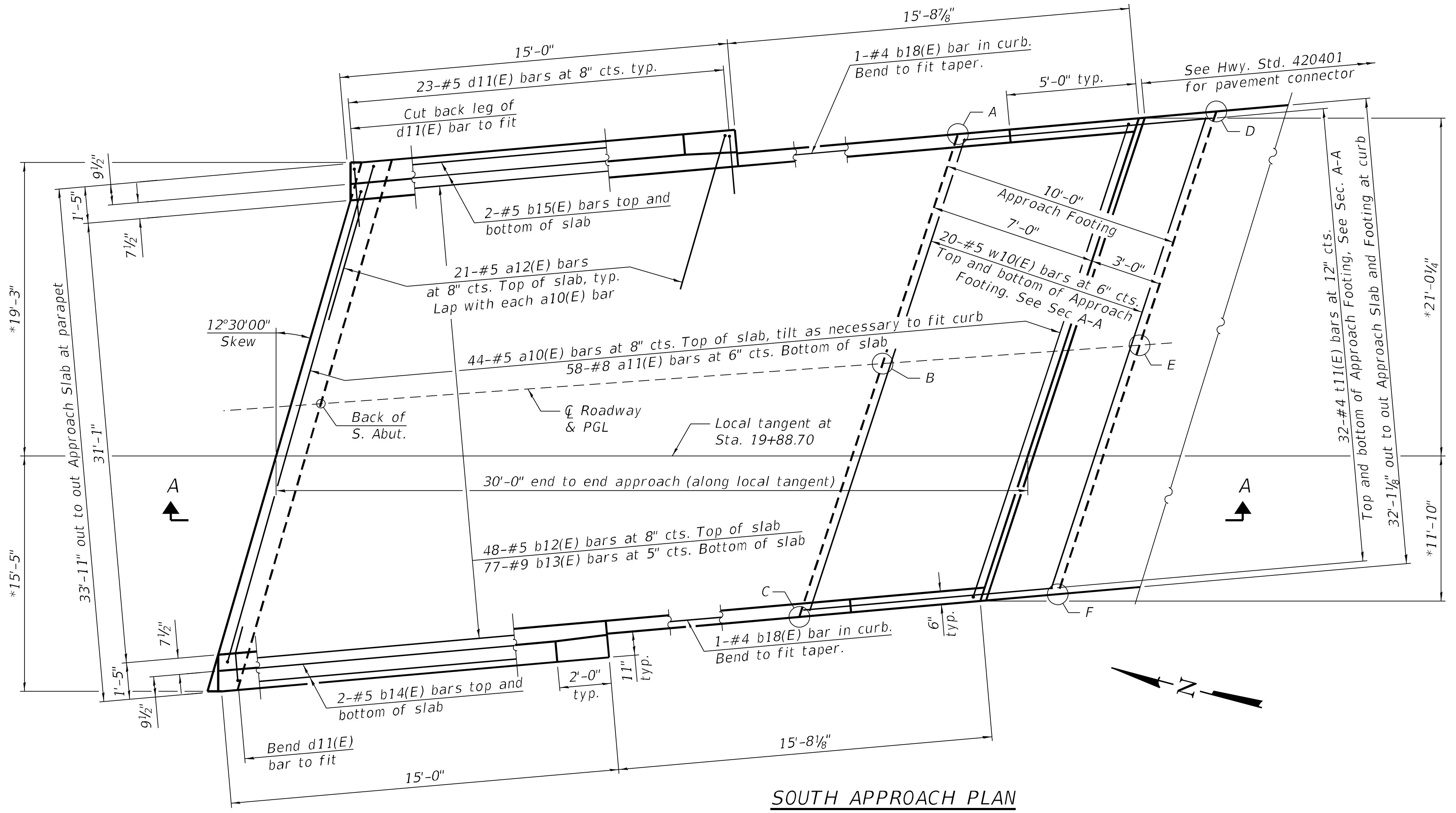


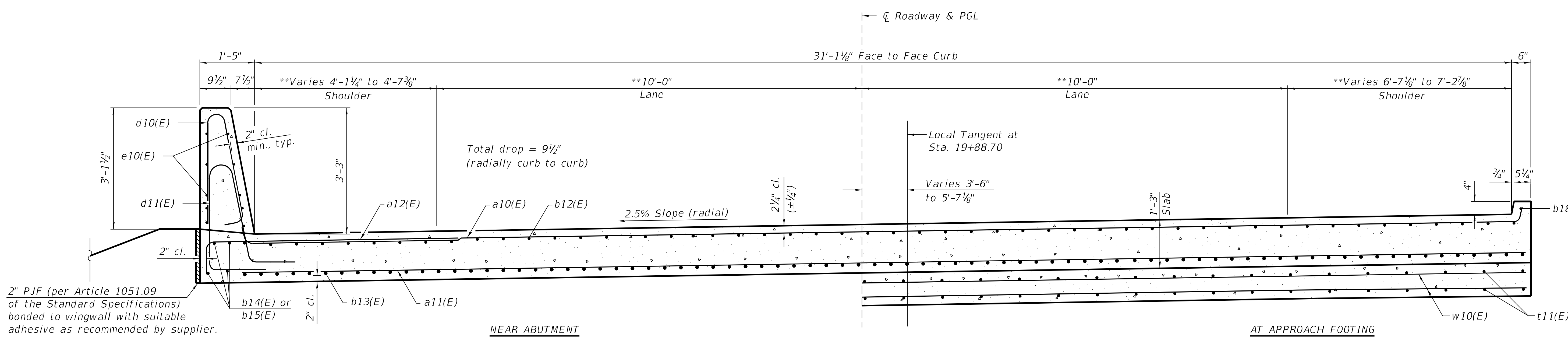
SOUTH APPROACH PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

South Approach		
Point	Top	Bottom
A	661.89	661.05
B	662.36	661.53
C	662.90	662.07
D	661.64	660.81
E	662.13	661.30
F	662.68	661.84

Notes:
See sheet 14 of 24 for Section A-A and Approach Slab details.
Transverse dimensions measured at right angles to barrier unless noted otherwise.
Longitudinal dimensions measured parallel to barrier unless noted otherwise.

* measured at right angles to local tangent
** measured radial to ℄ roadway



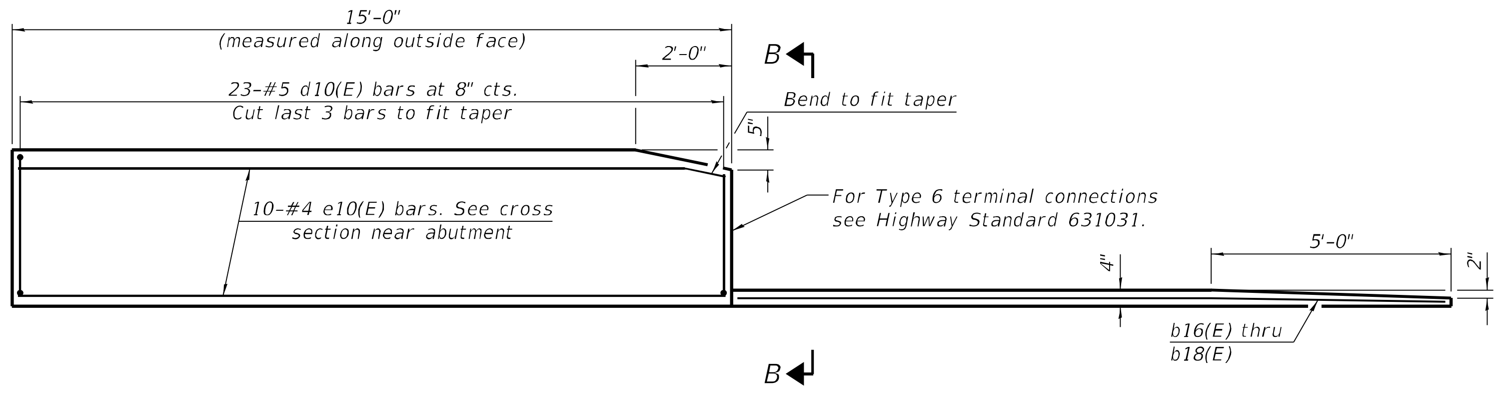
CROSS SECTION

(Looking South)

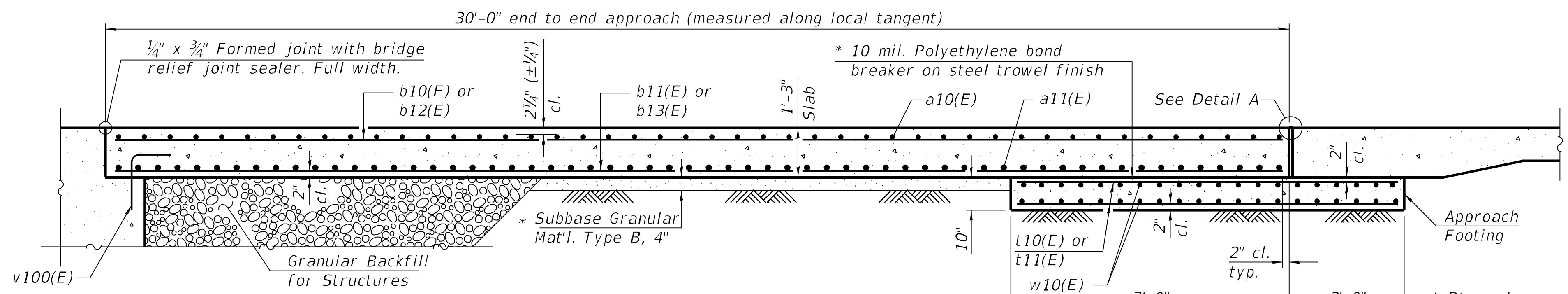
(Sheet 2 of 3)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 13 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	129
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

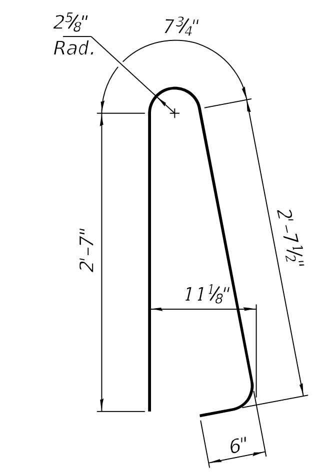


INSIDE ELEVATION OF PARAPET AND CURB

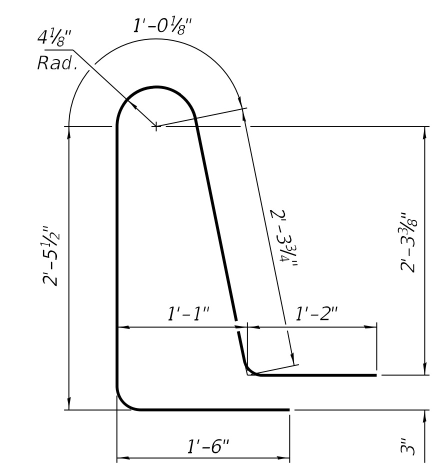


SECTION A-A

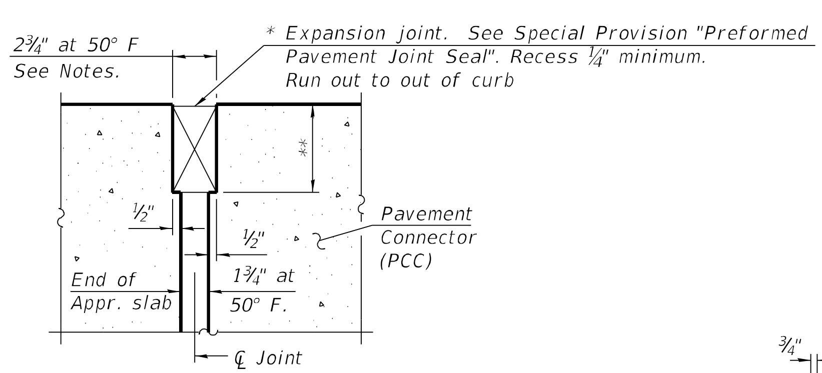
Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 24.



BAR d10(E)



BAR d11(E)

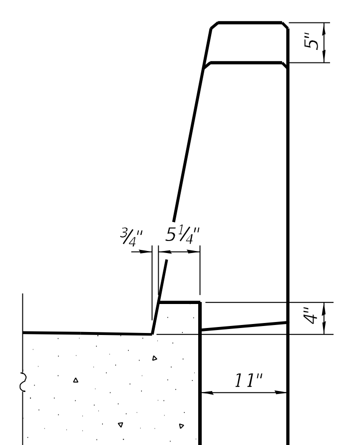


DETAIL A

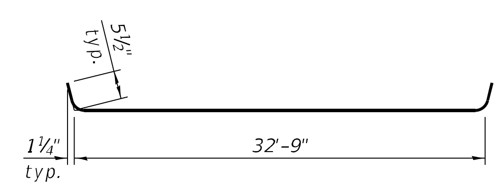
(@ Rt. ∠'s)

* Cost included with Concrete Superstructure (Approach Slab).

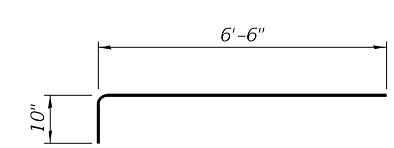
** Per manufacturer recommendations



VIEW B-B



BAR a10(E)



BAR a12(E)

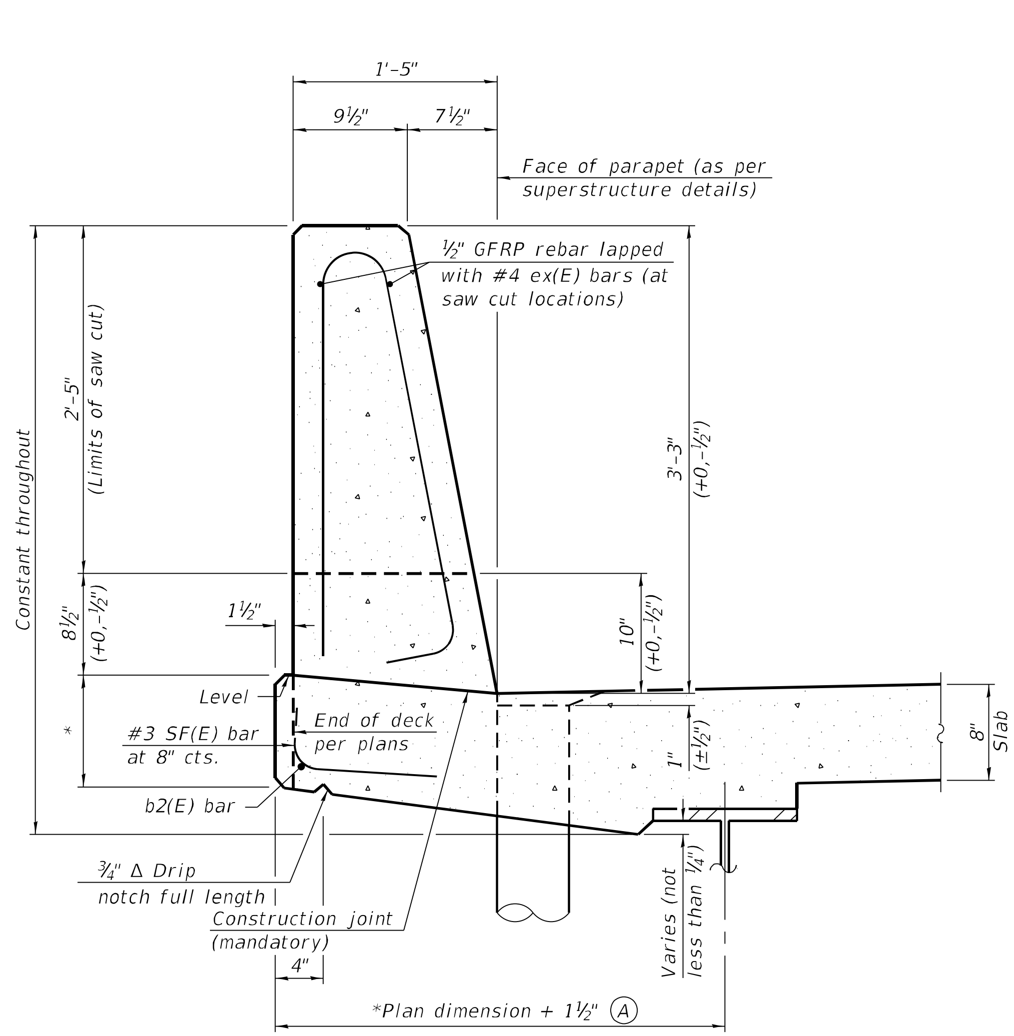
NORTH APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	44	#5	33'-8"	
a11(E)	58	#8	33'-4"	
a12(E)	44	#5	7'-4"	
b10(E)	50	#5	29'-5"	
b11(E)	79	#9	29'-5"	
b14(E)	4	#5	14'-11"	
b15(E)	4	#5	14'-8"	
b16(E)	1	#4	14'-3"	
b17(E)	1	#4	14'-7"	
d10(E)	46	#5	6'-5"	
d11(E)	46	#5	8'-6"	
e10(E)	20	#4	14'-8"	
t10(E)	66	#4	9'-10"	
w10(E)	40	#5	33'-4"	
Concrete Superstructure			Cu. Yd.	3.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	47.2
Concrete Structures			Cu. Yd.	10.3
Reinforcement Bars, Epoxy Coated			Pound	19,370

SOUTH APPROACH
BILL OF MATERIAL

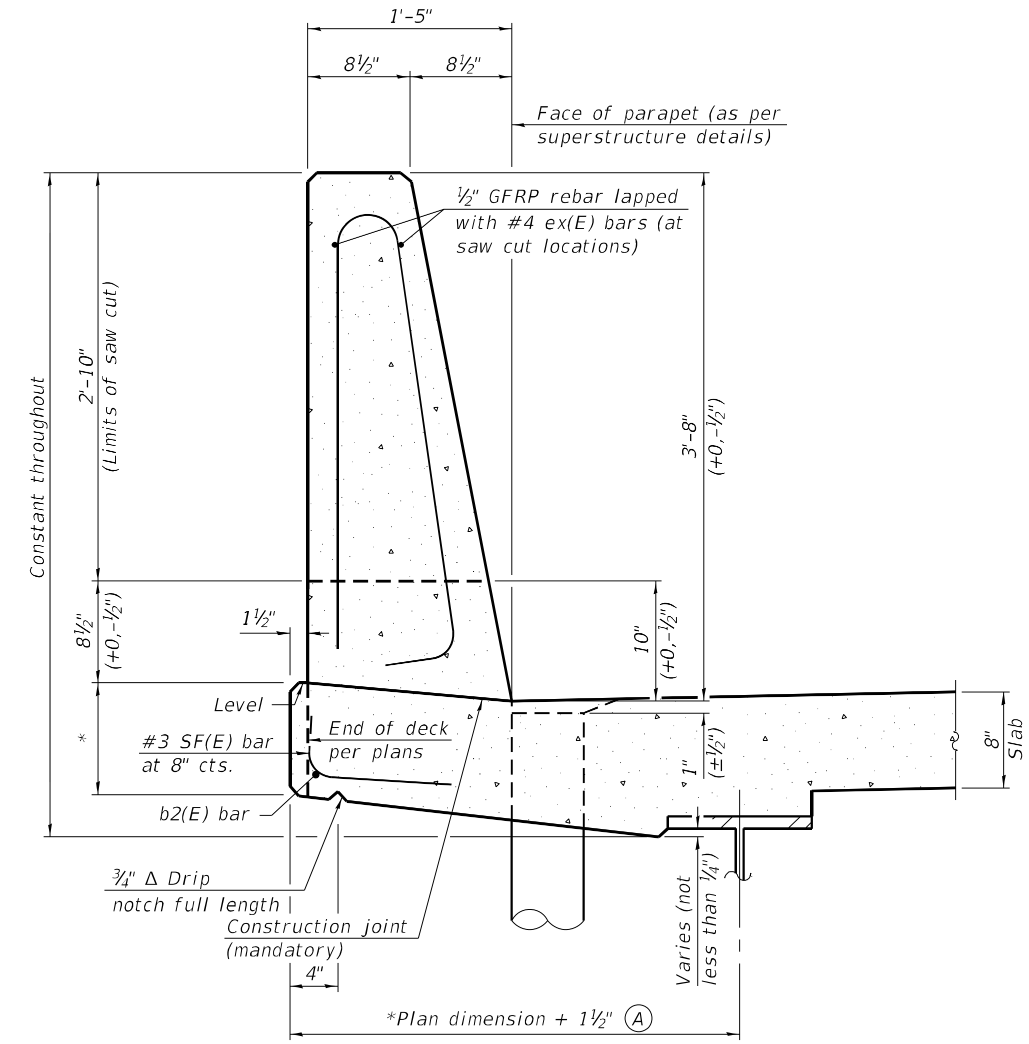
Bar	No.	Size	Length	Shape
a10(E)	44	#5	33'-8"	
a11(E)	58	#8	33'-4"	
a12(E)	42	#5	7'-4"	
b12(E)	48	#5	30'-5"	
b13(E)	77	#9	30'-5"	
b14(E)	4	#5	14'-11"	
b15(E)	4	#5	14'-8"	
b18(E)	2	#4	15'-5"	
d10(E)	46	#5	6'-5"	
d11(E)	46	#5	8'-6"	
e10(E)	20	#4	14'-8"	
t11(E)	64	#4	10'-2"	
w10(E)	40	#5	33'-4"	
Concrete Superstructure			Cu. Yd.	3.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	47.2
Concrete Structures			Cu. Yd.	10.0
Reinforcement Bars, Epoxy Coated			Pound	19,400

(Sheet 3 of 3)



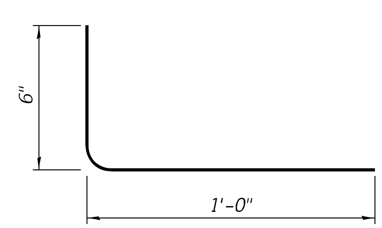
39" CONSTANT-SLOPE
PARAPET SECTION
(Showing dimensions, d(E), and ½" Ø GFRP rebar)

*See Superstructure Details.

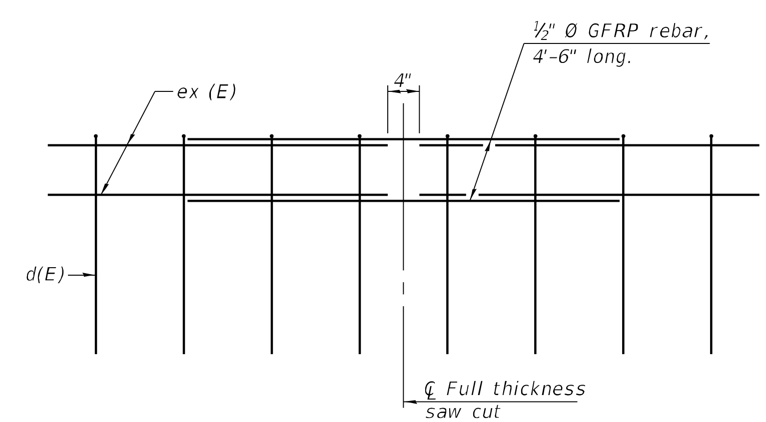


44" CONSTANT-SLOPE
PARAPET SECTION
(Showing dimensions, d(E), and ½" Ø GFRP rebar)

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.



#3 SF(E) BAR



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

SFP 39-44 1-1-2020

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE PARAPET SLIPFORMING OPTION STRUCTURE NO. 006-0191	F.A.I. RTE. 80; SECTION (06-1HB)BR; COUNTY BUREAU; TOTAL SHEETS 202; SHEET NO. 131
		CHECKED - MTH	REVISED -			CONTRACT NO. 66K73
	PLOT SCALE =	DRAWN - AJF	REVISED -			
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 15 OF 24 SHEETS	ILLINOIS FED. AID PROJECT

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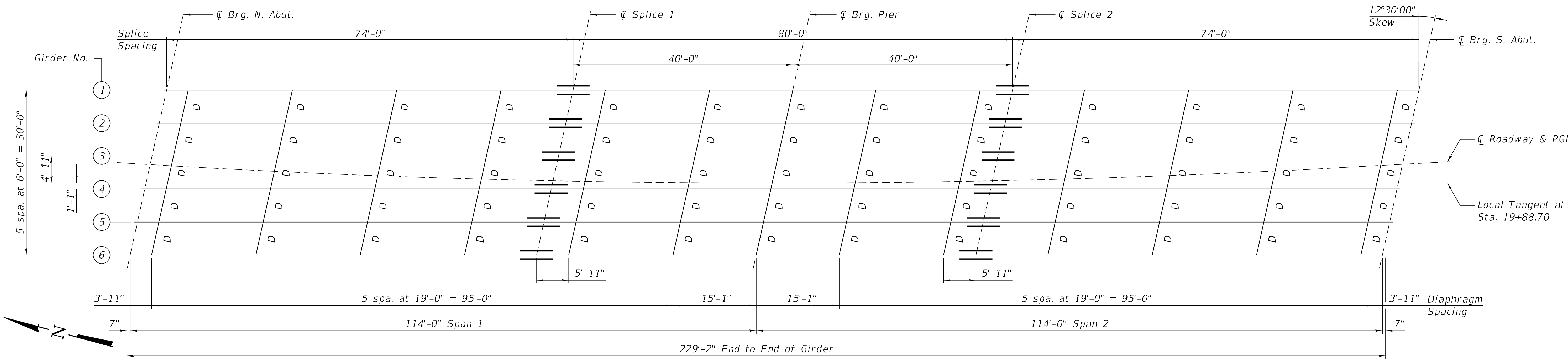
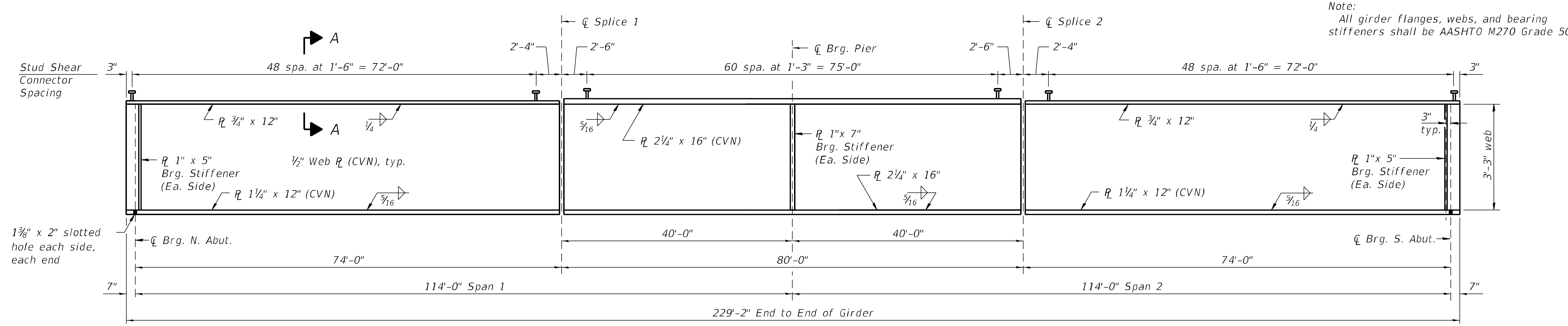


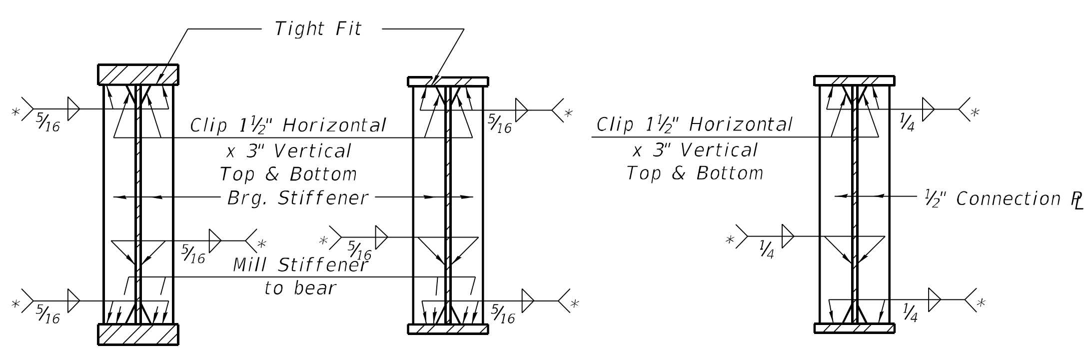
FRAMING PLAN

Note:
All girder flanges, webs, and bearing stiffeners shall be AASHTO M270 Grade 50.



GIRDER ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

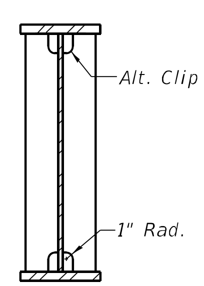


SECTION AT PIER

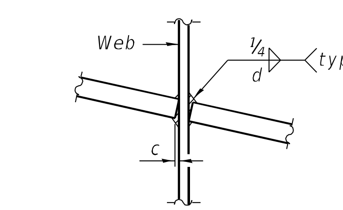
SECTION AT ABUTMENT

SECTION AT CONNECTION PL

* Terminate ¼" (±⅛") from the end of plate intersects.

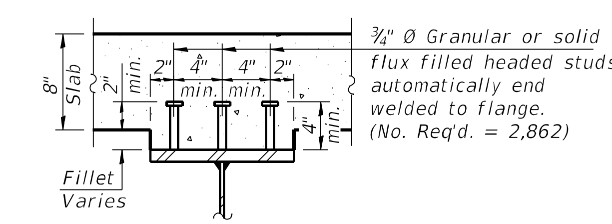


ALT. CLIP DETAIL



c = ¼" (Stiff. PL); ⅛" (Conn. PL)
d = ½" (Stiff. PL); ⅜" (Conn. PL)

WEB WELD DETAIL



SECTION A-A

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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	PLOT SCALE =	DRAWN - AJF	REVISED -	
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -	

FRAMING PLAN
STRUCTURE NO. 006-0191
SHEET 16 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	132
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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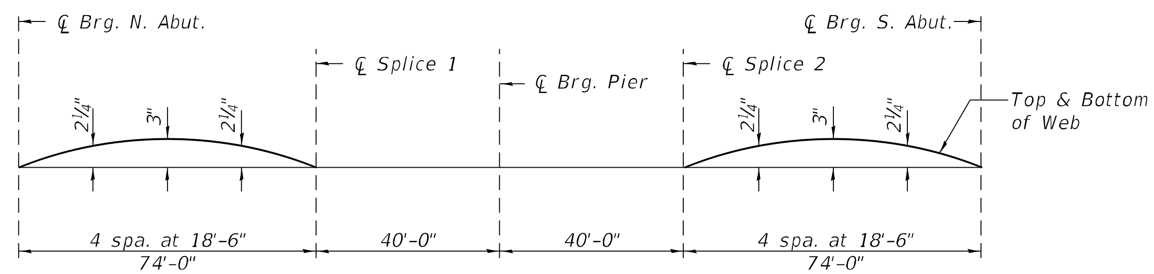
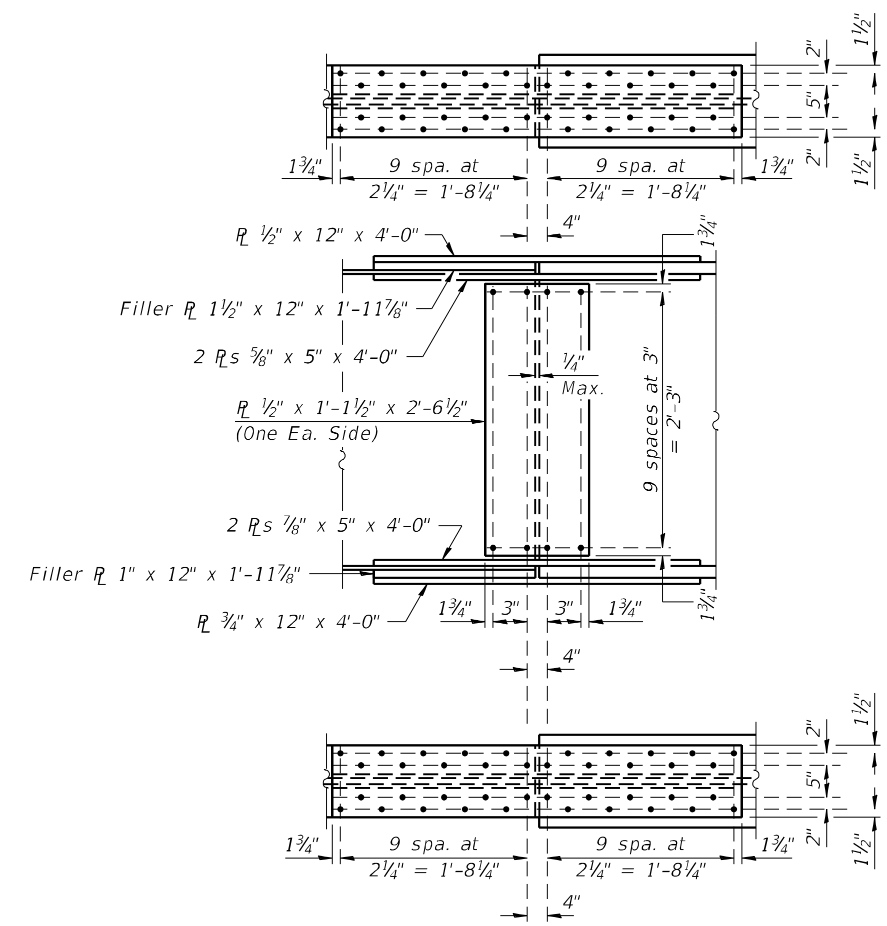
TOP OF WEB ELEVATIONS

(For Fabrication Only)

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
℄ Brg. N. Abut.	662.96	663.09	663.23	663.36	663.50	663.63
℄ Splice1	663.74	663.90	664.04	664.18	664.33	664.46
℄ Brg. Pier	663.73	663.89	664.04	664.19	664.35	664.49
℄ Splice 2	663.72	663.89	664.04	664.20	664.36	664.51
℄ Brg. S. Abut.	662.88	663.06	663.24	663.42	663.60	663.77

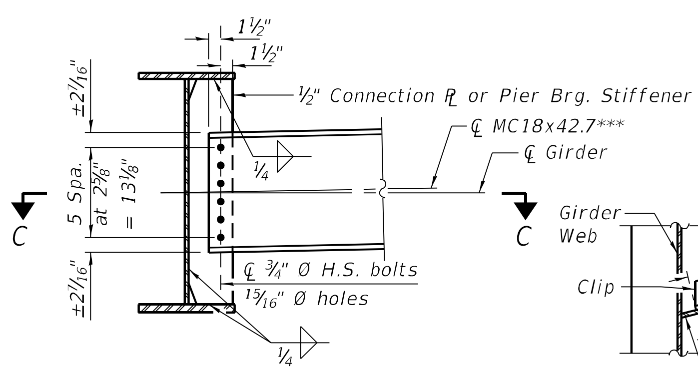


CAMBER DIAGRAM



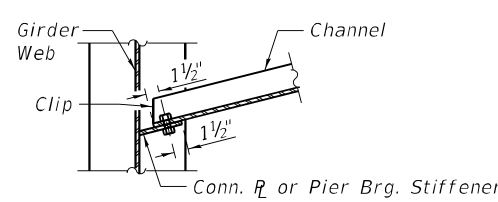
FIELD SPLICE DETAIL

(12 required)



INTERIOR DIAPHRAGM D

(65 required)



SECTION C-C

Note:
Two hardened washers required for each set of oversized holes.

***Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. The alternate, if utilized, shall be provided at no extra cost to the Department.

Notes:
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
All flange and web splice plates, except filler plates, shall be AASHTO M270 Grade 50 (CVN).
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

MODEL: Default
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LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -
		CHECKED - MTH	REVISED -
	PLOT SCALE =	DRAWN - AJF	REVISED -
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 006-0191

SHEET 17 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	133
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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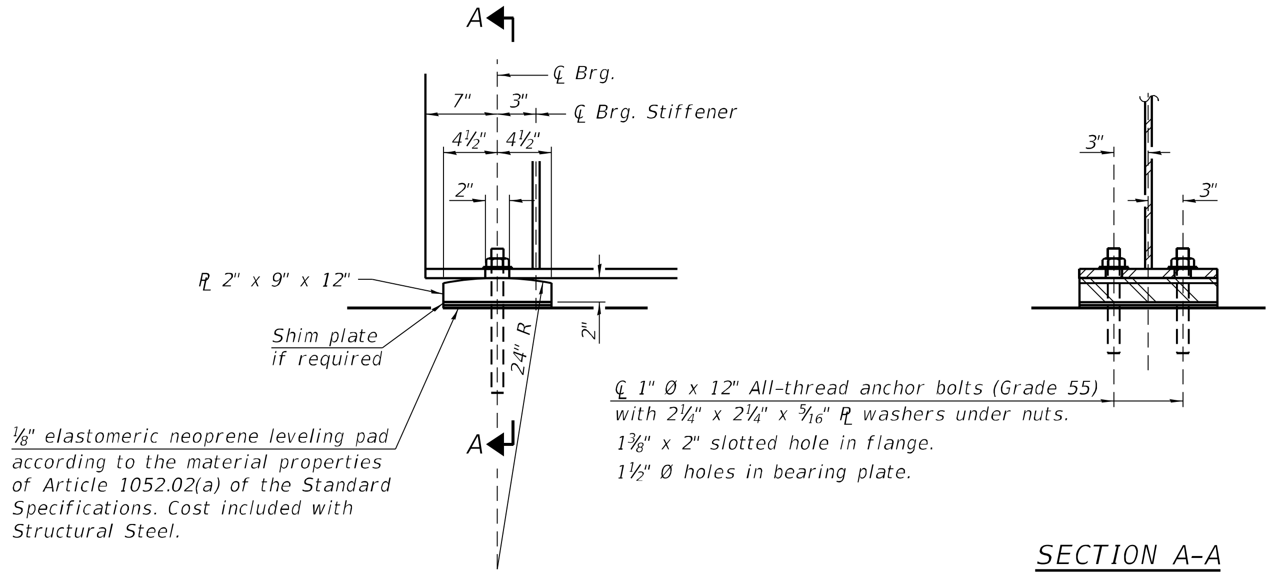
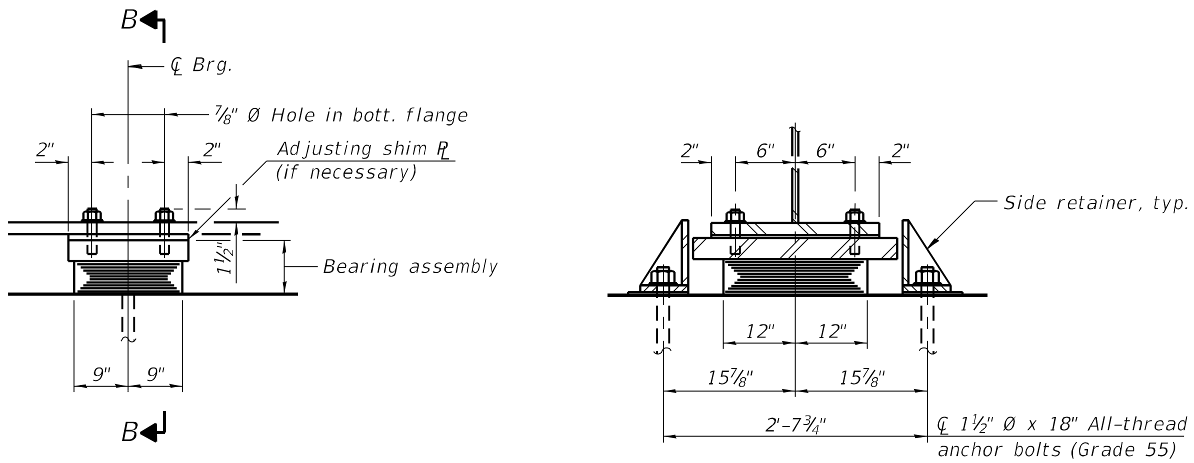


ELEVATION AT ABUTMENT

SECTION A-A

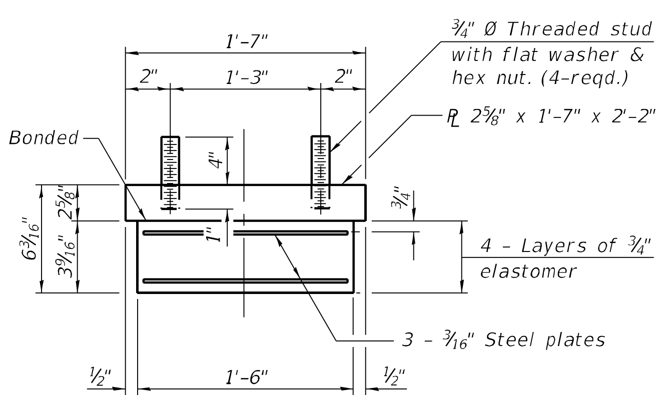
FIXED BEARINGS



ELEVATION AT PIER

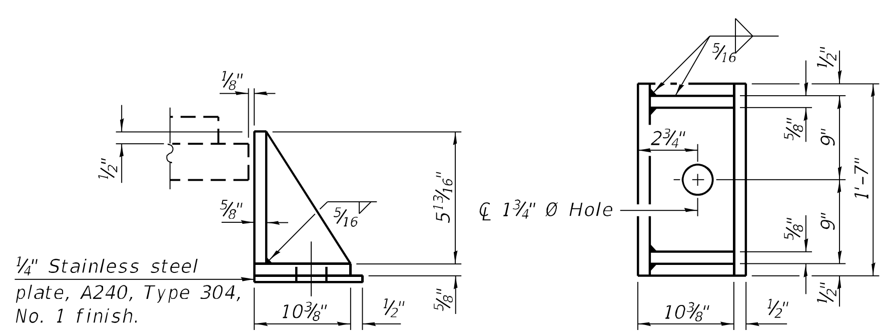
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.



SIDE RETAINER

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

INTERIOR GIRDER MOMENT TABLE			
		0.4 Sp. 1 & 0.6 Sp. 2	Pier
Is	(in^4)	11,757	33,130
Ic(n)	(in^4)	35,683	-
Ic(3n)	(in^4)	25,893	-
Ic(cr)	(in^4)	-	35,218
Ss	(in^3)	656	1,523
Sc(n)	(in^3)	969	-
Sc(3n)	(in^3)	888	-
Sc(cr)	(in^3)	-	1,555
DC1	(k/')	0.800	0.980
MDC1	('k)	532	1,772
DC2	(k/')	0.175	0.175
MDC2	('k)	135	345
DW	(k/')	0.300	0.300
MDW	('k)	231	592
LLDF		0.505	0.505
M_{LL+IM}	('k)	1,295	1,690
Mu (Strength I)	('k)	3,445	6,491
Øf Mn	('k)	4,753	6,980
fs DC1	(ksi)	9.72	13.96
fs DC2	(ksi)	1.82	2.67
fs DW	(ksi)	3.12	4.57
fs (LL+IM)	(ksi)	16.03	13.04
fs (Service II)	(ksi)	35.50	38.15
0.95Rh Fyf	(ksi)	47.50	47.50
fs (Total)(Strength I)	(ksi)	-	-
Øf Fn	(ksi)	-	-
Vf	(k)	29.9	29.3

GIRDER REACTION TABLE					
		Abuts.		Pier	
		Interior	Exterior	Interior	Exterior
LLDF		0.671	0.492	0.671	0.492
OCF		-	1.05	-	-
RDC1	(k)	29.3	26.4	129.1	117.8
RDC2	(k)	6.9	6.9	26.0	26.0
RDW	(k)	11.9	7.8	44.6	29.1
R_{LL}	(k)	63.7	46.8	132.1	97.5
R_{IM}	(k)	14.3	10.4	24.8	18.3
RTotal	(k)	126.2	98.4	356.7	288.7

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{LL+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
$1.25\ (MDC1 + MDC2) + 1.5\ MDW + 1.75\ M_{LL+IM}$

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Ss

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (LL+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{LL+IM} / Sc(n) or M_{LL+IM} / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).
$fsDC1 + fsDC2 + fsDW + 1.3\ fs(_{LL+IM})$

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (fsDC1 + fsDC2) + 1.5\ fsDW + 1.75\ fs(_{LL+IM})$

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

LLDF: Live Load Distribution Factor

OCF: Obtuse Correction Factor

Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Cost of Fixed Bearing Assemblies at abutments included in Furnishing and Erecting Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Anchor Bolts, 1"	Each	24
Anchor Bolts, 1½"	Each	12

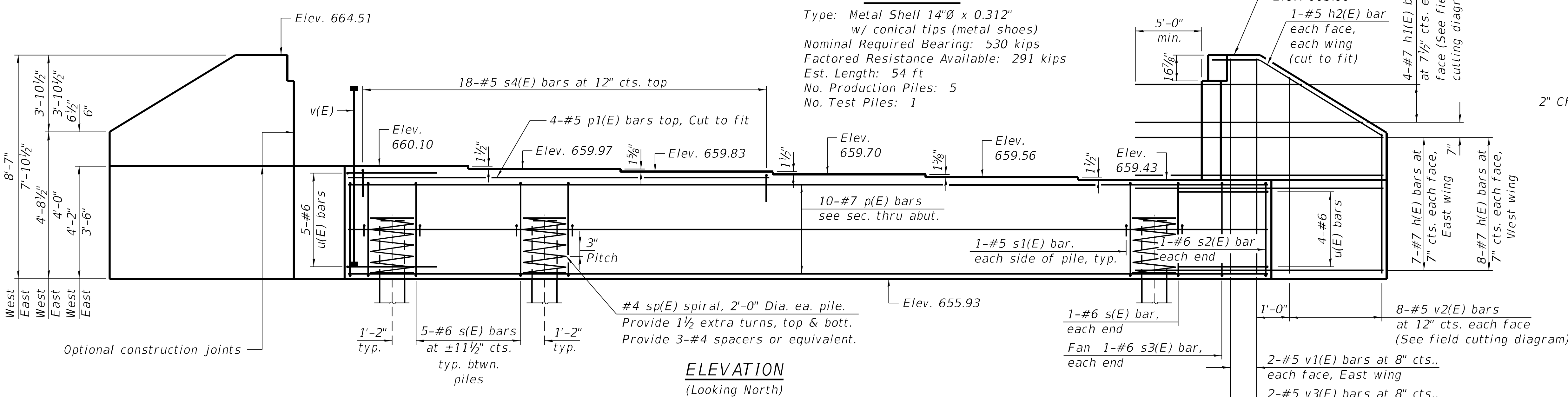
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS STRUCTURE NO. 006-0191	F.A.I. RTE. 80	SECTION (06-1HB)BR	COUNTY BUREAU	TOTAL SHEETS 202	SHEET NO. 134
		CHECKED - MTH	REVISED -					CONTRACT NO. 66K73		
	PLOT SCALE =	DRAWN - AJF	REVISED -							
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 18 OF 24 SHEETS		ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: E:\2107-2\Struct\Final Design\CADD\CADD_Sheets\0060191-66K73-018-BearingDetails.dgn

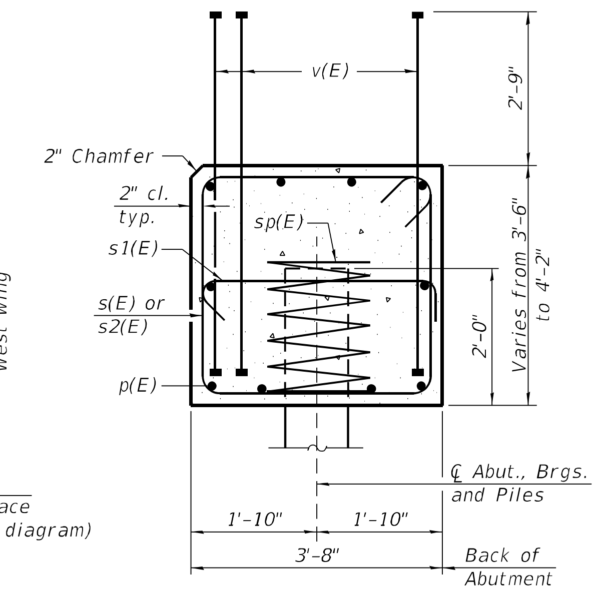
3/7/2022 3:07:34 PM

PILE DATA

Type: Metal Shell 14"Ø x 0.312"
w/ conical tips (metal shoes)
Nominal Required Bearing: 530 kips
Factored Resistance Available: 291 kips
Est. Length: 54 ft
No. Production Piles: 5
No. Test Piles: 1



ELEVATION
(Looking North)



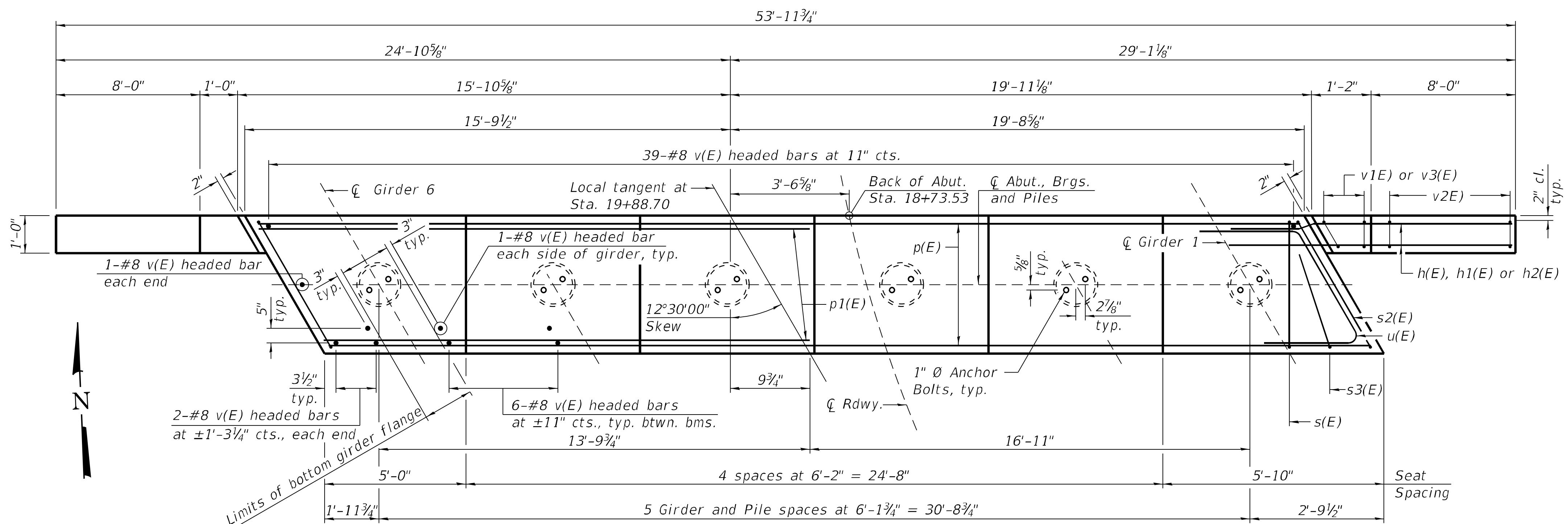
SEC. THRU ABUT.
Dimensions at right angles to abutment.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	30	#7	14'-4"	
h1(E)	8	#7	22'-10"	
h2(E)	4	#5	9'-9"	
p(E)	10	#7	35'-2"	
p1(E)	4	#5	17'-10"	
s(E)	27	#6	14'-4"	
s1(E)	12	#5	4'-4"	
s2(E)	2	#6	14'-6"	
s3(E)	2	#6	7'-4"	
s4(E)	18	#5	8'-4"	
* sp(E)	6	#4	2'-0"	
u(E)	9	#6	11'-11"	
v(E)	87	#8	6'-0"	
v1(E)	4	#5	7'-6"	
v2(E)	16	#5	11'-7"	
v3(E)	4	#5	8'-4"	

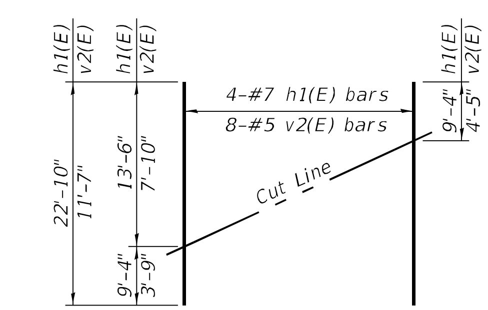
Structure Excavation	Cu. Yd.	69
Concrete Structures	Cu. Yd.	23.0
Reinforcement Bars, Epoxy Coated	Pound	5,040
Furnishing Metal Shell Piles 14"x0.312"	Foot	270
Driving Piles	Foot	270
Test Pile Metal Shells	Each	1
Pile Shoes	Each	6

* Length is height of spiral.

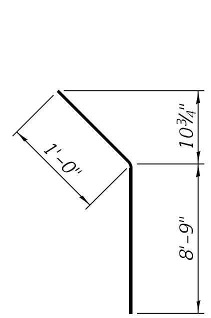


PLAN

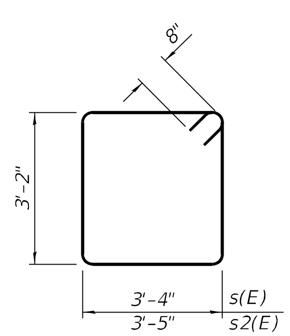
BAR v(E)
(Headed)



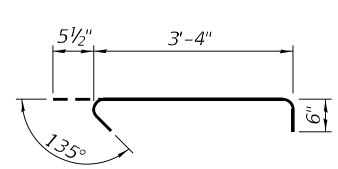
FIELD CUTTING DIAGRAM
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



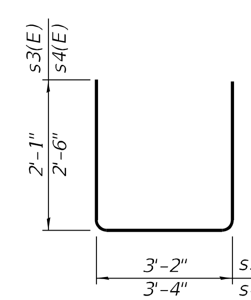
BAR h2(E)



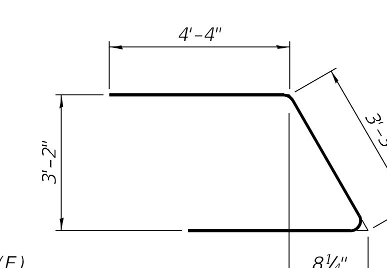
BARS s(E) & s2(E)



BAR s1(E)



BARS s3(E) & s4(E)

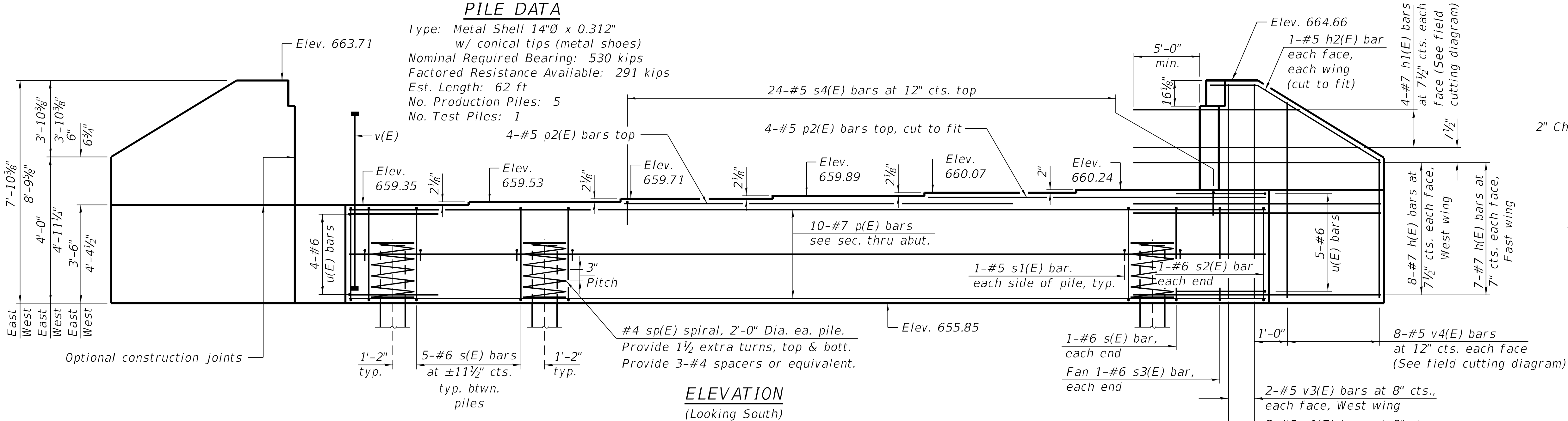


BAR u(E)

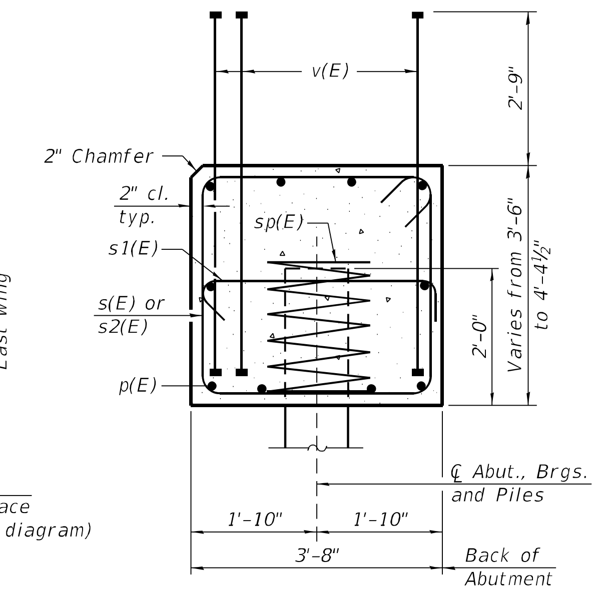
Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 22 of 24.
For drainage details see sheet 2 of 24.
Space reinforcement in cap to miss anchor bolts.
Piles shall be driven through 24" diameter precored holes extending to elevation 645.93 according to article 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.

PILE DATA

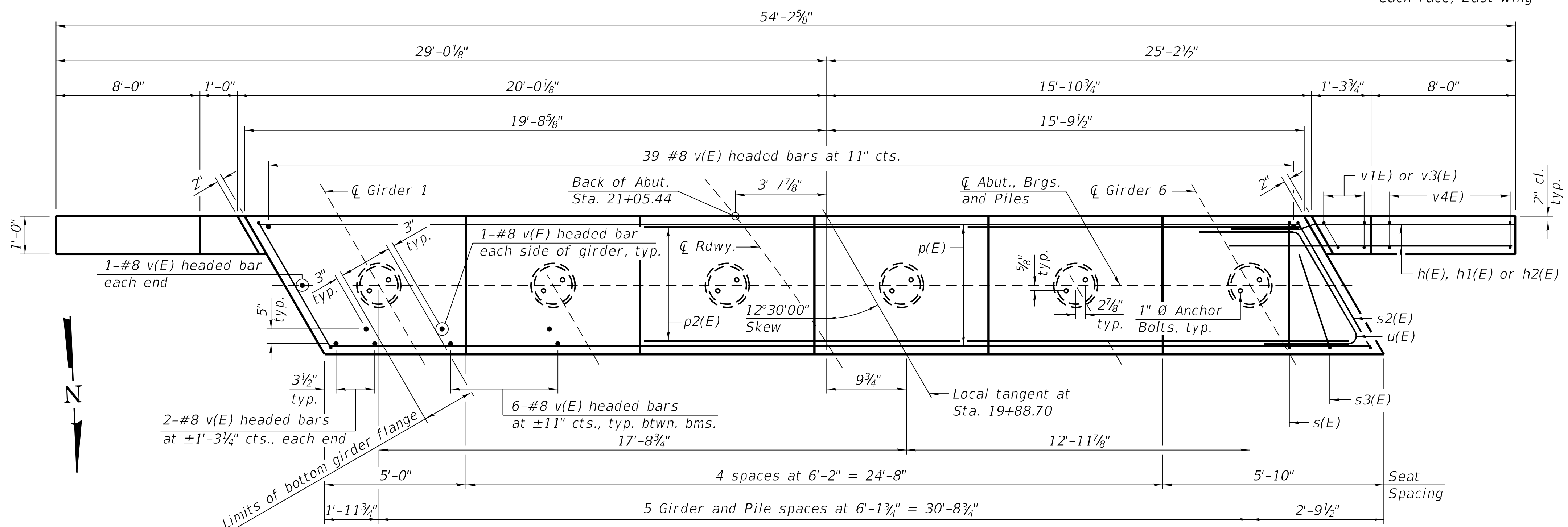
Type: Metal Shell 14"Ø x 0.312" w/ conical tips (metal shoes)
Nominal Required Bearing: 530 kips
Factored Resistance Available: 291 kips
Est. Length: 62 ft
No. Production Piles: 5
No. Test Piles: 1



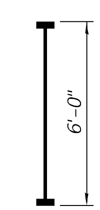
ELEVATION
(Looking South)



SEC. THRU ABUT.
Dimensions at right angles to abutment.



PLAN



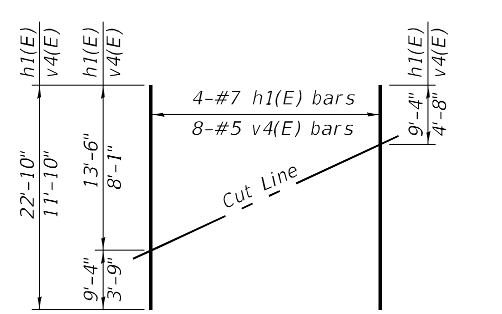
BAR v(E)
(Headed)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	30	#7	14'-4"	
h1(E)	8	#7	22'-10"	
h2(E)	4	#5	9'-9"	
p(E)	10	#7	35'-2"	
p2(E)	8	#5	13'-4"	
s(E)	27	#6	14'-4"	
s1(E)	12	#5	4'-4"	
s2(E)	2	#6	14'-6"	
s3(E)	2	#6	7'-4"	
s4(E)	24	#5	8'-4"	
* sp(E)	6	#4	2'-0"	
u(E)	9	#6	11'-11"	
v(E)	87	#8	6'-0"	
v1(E)	4	#5	7'-6"	
v3(E)	4	#5	8'-4"	
v4(E)	16	#5	11'-10"	

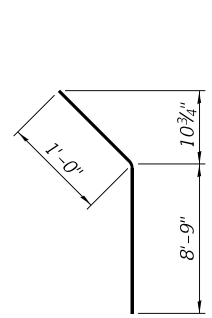
Structure Excavation	Cu. Yd.	71
Concrete Structures	Cu. Yd.	23.7
Reinforcement Bars, Epoxy Coated	Pound	5,130
Furnishing Metal Shell Piles, 14"x0.312"	Foot	310
Driving Piles	Foot	310
Test Pile Metal Shells	Each	1
Pile Shoes	Each	6

* Length is height of spiral.

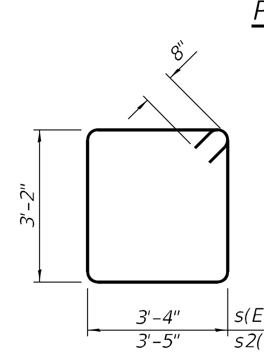


FIELD CUTTING DIAGRAM

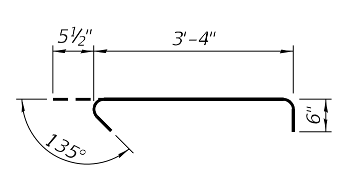
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite wing.



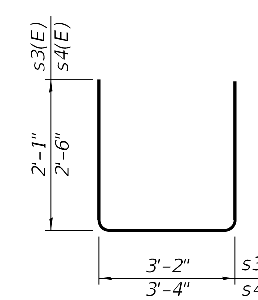
BAR h2(E)



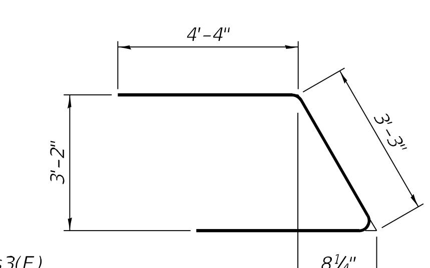
BARS s(E) & s2(E)



BAR s1(E)



BARS s3(E) & s4(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 22 of 24.
For drainage details see sheet 2 of 24.
Space reinforcement in cap to miss anchor bolts.
Piles shall be driven through 24" diameter precored holes extending to elevation 645.85 according to Article 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -
		CHECKED - MTH	REVISED -
	PLOT SCALE =	DRAWN - AJF	REVISED -
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -

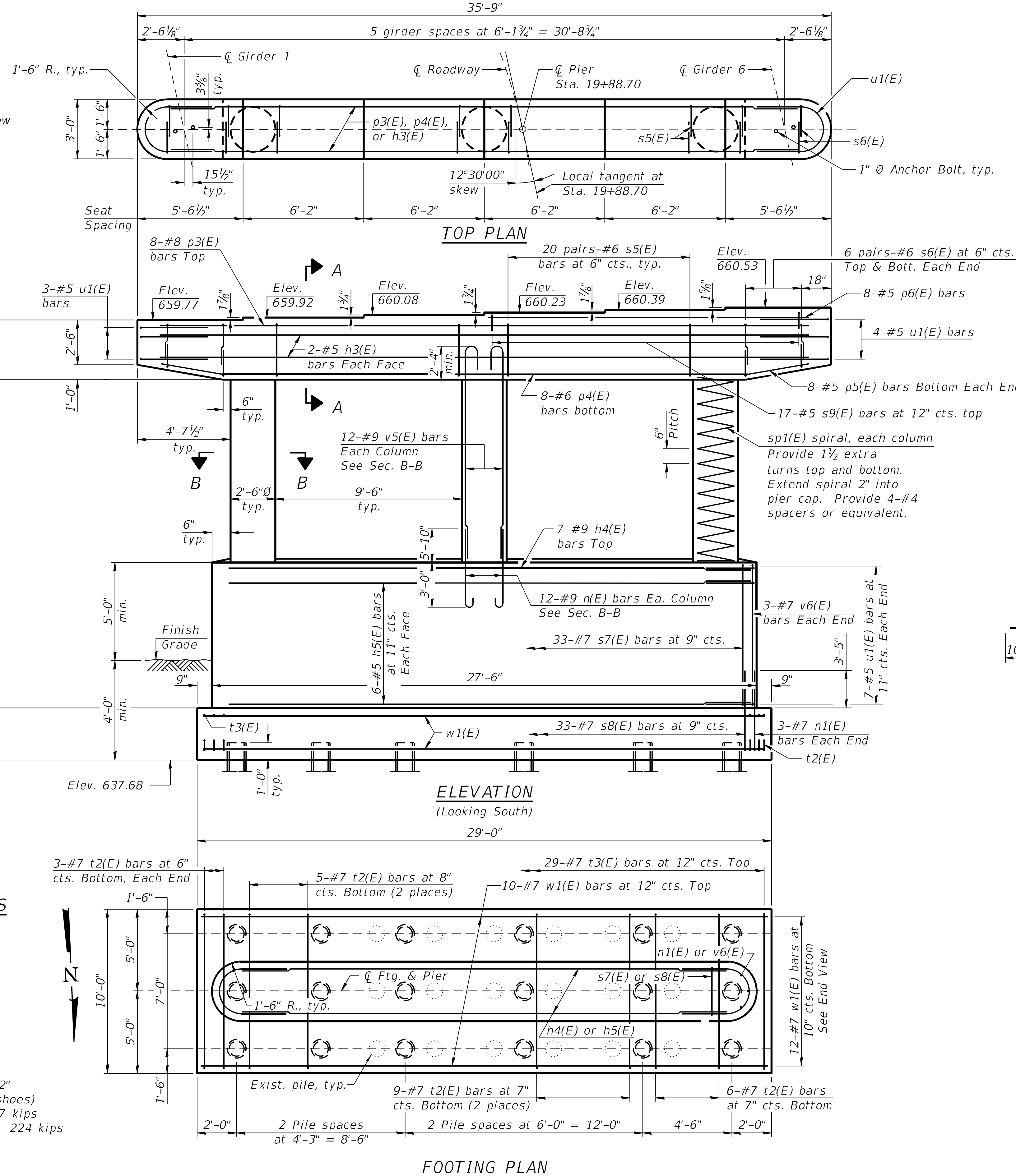
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

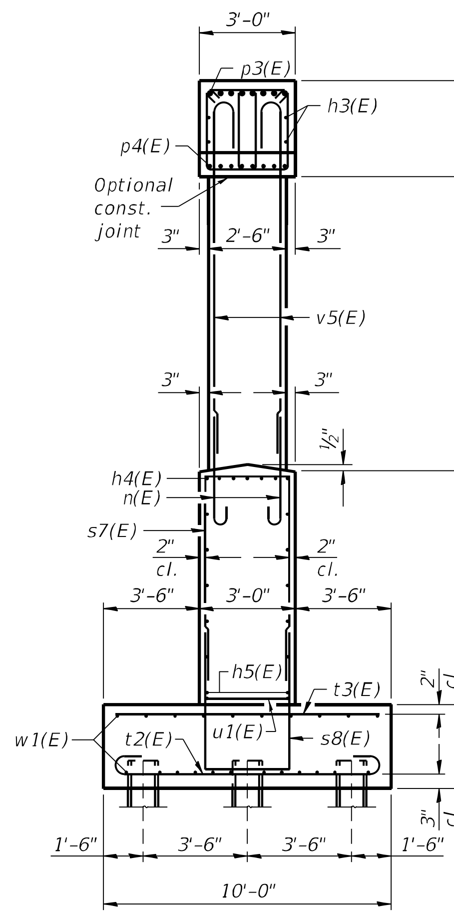
SOUTH ABUTMENT
STRUCTURE NO. 006-0191

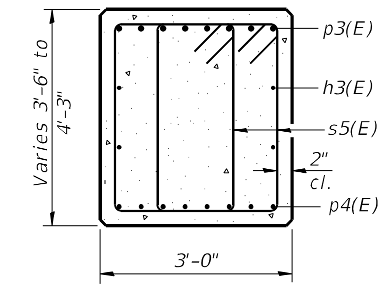
SHEET 20 OF 24 SHEETS

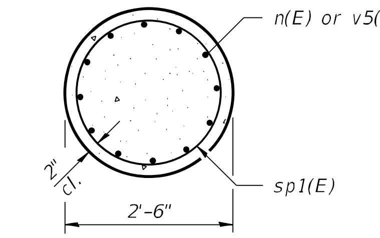
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	136
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

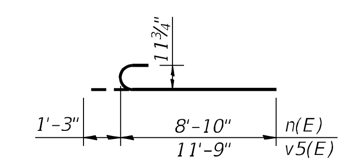
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 22 of 24.
New piles can be moved up to 8 inches to avoid contact with the existing piles if/when a conflict occurs in the field and not change the design. If new pier piles cannot be moved to avoid conflict with existing piles, existing pier piles shall be removed. If an existing pier pile will be removed per the Engineer, the cost of removal will be paid for according to Article 109.04 of the Standard Specs.

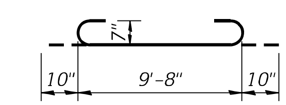


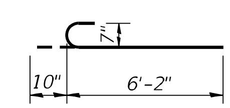


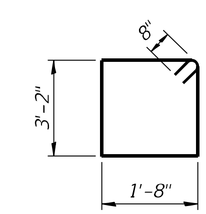


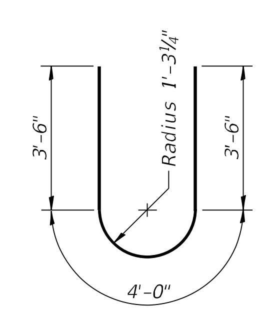


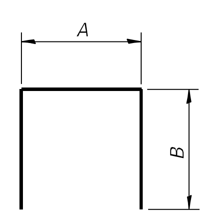












BARS s6(E) THRU s9(E)

A & B DIMENSIONS

Bar	A	B
s6(E)	1'-8"	2'-6"
s7(E)	2'-8"	5'-8"
s8(E)	2'-8"	7'-5"
s9(E)	2'-8"	2'-6"

PILE DATA

Type: Metal Shell 14"Ø x 0.312" w/ conical tips (metal shoes)
Nominal Required Bearing: 407 kips
Factored Resistance Available: 224 kips
Est. Length: 42 ft
No. Production Piles: 17
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	4	#5	32'-9"	
h4(E)	7	#9	24'-6"	
h5(E)	12	#5	24'-6"	
n(E)	36	#9	10'-1"	
n1(E)	6	#7	7'-0"	
p3(E)	8	#8	32'-9"	
p4(E)	8	#6	26'-6"	
p5(E)	16	#5	3'-4"	
p6(E)	8	#5	16'-1"	
s5(E)	80	#6	11'-0"	
s6(E)	48	#6	6'-8"	
s7(E)	33	#7	14'-0"	
s8(E)	33	#7	17'-6"	
s9(E)	17	#5	7'-8"	
** sp1(E)	3	#5	9'-9"	
t2(E)	40	#7	11'-4"	
t3(E)	29	#7	9'-8"	
u1(E)	21	#5	11'-0"	
v5(E)	36	#9	13'-0"	
v6(E)	6	#7	5'-8"	
w1(E)	22	#7	28'-8"	

Structure Excavation	Cu. Yd.	100
Concrete Structures	Cu. Yd.	70.0
Reinforcement Bars, Epoxy Coated	Pound	12,790
Furnishing Metal Shell Piles 14"x0.312"	Foot	714
Driving Piles	Foot	714
Test Pile Metal Shell	Each	1
Pile Shoes	Each	18

** Length is height of spiral.

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	DESIGNED - CL	REVISED -	
	CHECKED - MTH	REVISED -	
PLOT SCALE =	DRAWN - AJF	REVISED -	
PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 006-0191
SHEET 21 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	137

CONTRACT NO. 66K73
ILLINOIS FED. AID PROJECT

MODEL: Default
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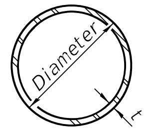
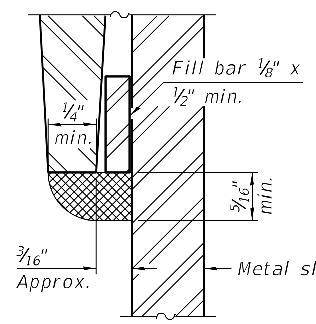
3/7/2022 3:07:36 PM

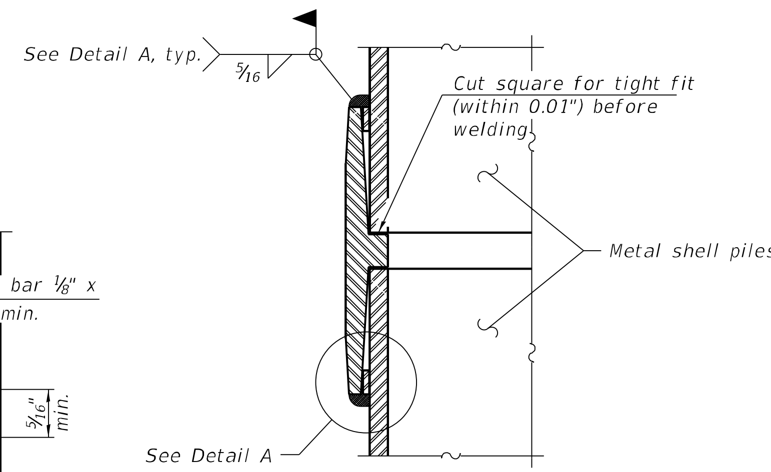


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

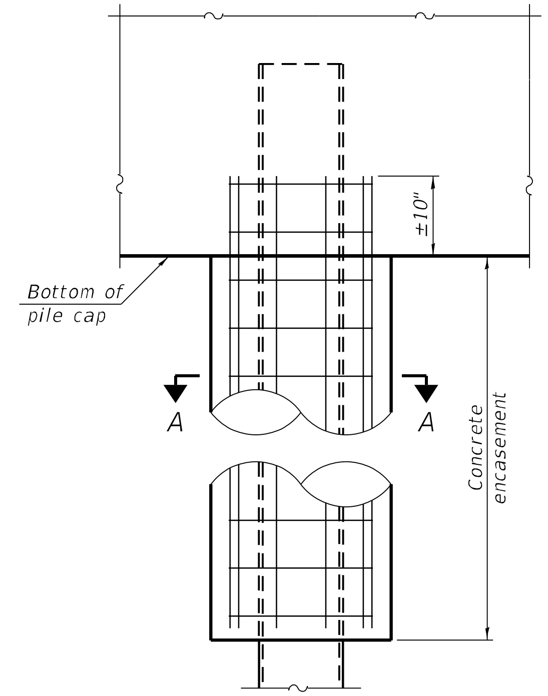


DETAIL A

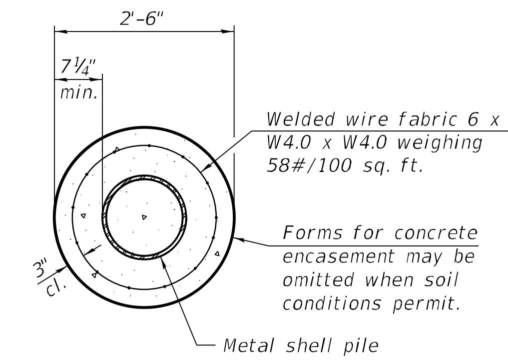


WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



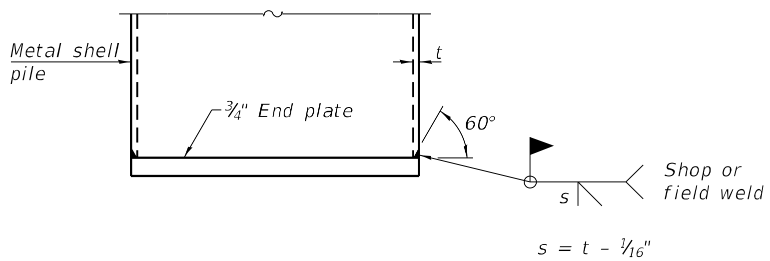
ELEVATION



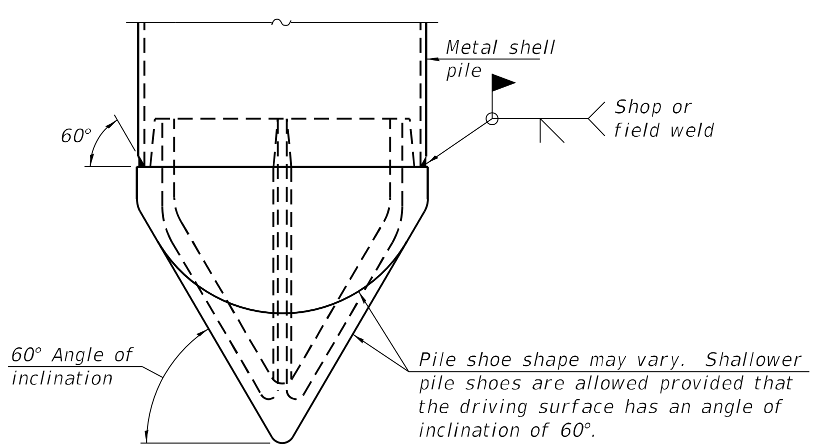
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)

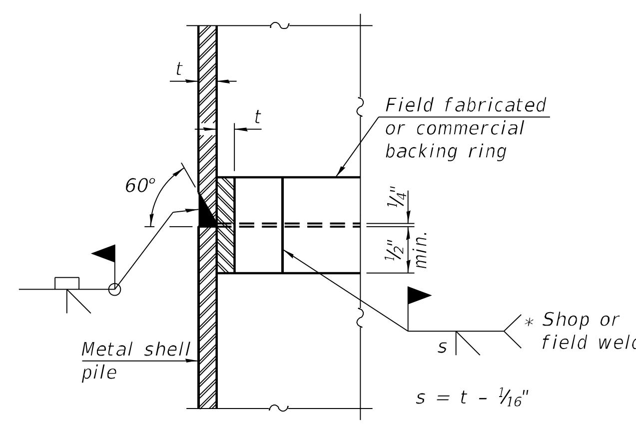


END PLATE ATTACHMENT



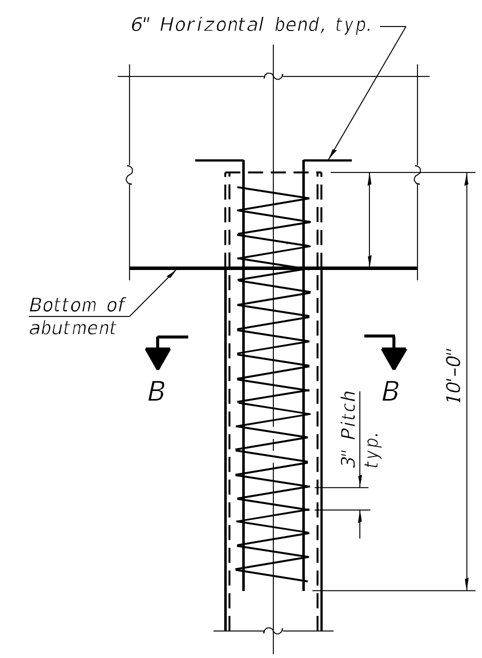
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

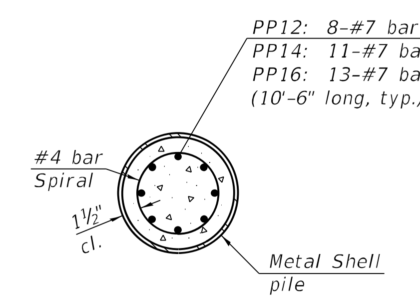


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 1-1-2020

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 1 of 2

Date 6/15/20

ROUTE TR 60-B DESCRIPTION TR 60-B over I-80, 4.78 miles East of the Henry County Line LOGGED BY Larry Myers

SECTION 06-1HB-2 LOCATION SE 1/4, SEC. 11, TWP. 16N, RNG. 6, 4th PM, Latitude 41.38611, Longitude -89.76588

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 006-0121 (Exist.)
Station 252+46.79

BORING NO. 01 (S.E. Quad.)
Station 20+96
Offset 8.0 ft Lt.
Ground Surface Elev. 661.95 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 629.5 ft ▼
Upon Completion 630.0 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Oil / Chip Road, Brown Sand & Gravel, Brown Silty Clay Loam Fill	659.45				
Stiff Brown Silty Clay Loam Fill with Sand Layers			2 2 2	1.5 P	11
WH = Weight of Hammer		-5	WH 1 2	1.5 P	13
			2 2 2	1.5 P	18
		-10	2 2 4	1.8 P	16
	649.95				
Very Stiff to Hard Brown Loam / Silty Clay Loam Till Fill with Sand Layers			5 8 8	4.0 P	13
		-15	3 3 3	2.5 P	15
			5 6 12	4.0 P	23
	641.95	-20			
Stiff / Very Stiff Brown & Black Silty Clay			3 3 3	2.0 P	25
	639.45				
Loose Brown Fine Sand to Fine Gravel			3 3 3		10
	636.95	-25			
Medium Light Brown Fine to Coarse Sand with some Gravel Pieces & Layers of Fine / Very Fine Sand			5 8 10		4
	634.45				
Medium Light Brown Very Fine Silty Sand			8 11 12		17
		-30	5 8 9		19
	629.45 ▽▼				
Medium Brown Fine to Coarse Sand with some Gravel Pieces - Free Water			11 11 12		14
		-35	7 8 9		16
			6 8 9		20
	621.95	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0121.GPJ IL_DOT.GDT 9/2/20

G21.019 - WO 4 SN 006-0191 Bridge Installation

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 2 of 2

Date 6/15/20

ROUTE TR 60-B DESCRIPTION TR 60-B over I-80, 4.78 miles East of the Henry County Line LOGGED BY Larry Myers

SECTION 06-1HB-2 LOCATION SE 1/4, SEC. 11, TWP. 16N, RNG. 6, 4th PM, Latitude 41.38611, Longitude -89.76588

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 006-0121 (Exist.)
Station 252+46.79

BORING NO. 01 (S.E. Quad.)
Station 20+96
Offset 8.0 ft Lt.
Ground Surface Elev. 661.95 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 629.5 ft ▼
Upon Completion 630.0 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense Gray Fine to Coarse Sand with some Gravel Pockets Washed Sample 40.0' to 41.5'			12 18 22		20
Washed Sample 42.5' to 44.0'			10 18 21		14
Washed Sample 45.0' to 46.5'		-45	10 15 20		16
Washed Sample 47.5' to 49.0'			9 16 21		10
	611.95	-50			
Hard Gray Silty Clay Till Washed Sample 50.0' to 51.5'			9 10 11	4.1 S	12
			6 9 13	4.2 S	14
		-55	7 9 12	4.2 S	15
			6 8 12	4.1 S	14
		-60			
Hard Gray Silty Clay Till *(continued)* Washed Sample 60.0' - 61.5'			7 9 12	4.2 S	13
			6 8 13	4.2 S	14
		-65	5 7 12	4.1 S	13
	595.45				
End of Boring					
		-70			
		-75			
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0121.GPJ IL_DOT.GDT 9/2/20

G21.019 - WO 4 SN 006-0191 Bridge Installation

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Page 1 of 2

Date 6/17/20

ROUTE TR 60-B DESCRIPTION TR 60-B over I-80, 4.78 miles East of the Henry County Line LOGGED BY Larry Myers

SECTION 06-1HB-2 LOCATION SE 1/4, SEC. 11, TWP. 16N, RNG. 6, 4th PM, Latitude 41.38681, Longitude -89.76612

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 006-0121 (Exist.)
Station 252+46.79

BORING NO. 02 (N.E. Quad.)
Station 18+99
Offset 8.0 ft Lt.
Ground Surface Elev. 661.90 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 628.9 ft ▼
Upon Completion 628.9 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Oil / Chip Road, Brown Sand & Gravel Fill, Brown Silty Clay Loam Fill	659.40				
Very Stiff Brown Silty Clay Loam Till Fill with Layers of Brown Sand Fill			3 2 3	3.0 P	15
		-5	2 2 2	2.5 P	10
			2 2 2	2.5 P	15
		-10	3 3 7	3.5 P	19
			4 7 10	3.5 P	11
Hard Black Silty Clay Loam Layers at 14.0'+		-15	2 4 9	4.0 P	18
			4 6 11	4.0 P	16
		-20			
Very Stiff Brown Silty Clay Loam Till Fill with Layers of Brown Sand Fill *(continued)*			2 3 7	3.5 P	24
	639.40				
Very Stiff Brown Silty Clay			3 3 4	3.0 P	24
	636.90	-25			
Loose Brown Fine to Coarse Sand with some Gravel Pieces			3 2 3		10
	634.90				
Medium Light Brown Fine Silty Sand			6 6 7		17
		-30	5 7 8		19
	629.40				
Medium Brown Fine to Coarse Sand with Gravel Pieces - Free Water ▽▼			5 7 8		15
		-35	6 7 8		15
			7 8 9		14
	622.40	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0121.GPJ IL_DOT.GDT 9/2/20

G21.019 - WO 4 SN 006-0191 Bridge Installation

(Sheet 1 of 2)

LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING DATA STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 23 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	139
		CONTRACT NO. 66K73		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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3/7/2022 3:07:38 PM

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation

Page 2 of 2 | Date 6/17/20

ROUTE TR 60-B **DESCRIPTION** TR 60-B over I-80, 4.78 miles East of the Henry County Line **LOGGED BY** Larry Myers

SECTION 06-1HB-2 **LOCATION** SE 1/4, **SEC.** 11, **TWP.** 16N, **RNG.** 6, 4th **PM**, **Latitude** 41.38681, **Longitude** -89.76612

COUNTY Bureau **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 006-0121 (Exist.)
Station 252+46.79

BORING NO. 02 (N.E. Quad.)
Station 18+99
Offset 8.0 ft Lt.
Ground Surface Elev. 661.90 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter 628.9 ft ▼
Upon Completion 628.9 ft ▽
After ____ **Hrs.** ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense Gray Fine to Coarse Sand with Gravel Pockets - Free Water *(continued)* Washed Sample 40.0' to 41.5'		10 17 21		17
Washed Sample 42.5' to 44.0'		10 15 18		14
	-45			
Washed Sample 45.0' to 46.5'		10 15 21		16
Washed Sample 47.5' to 49.0'		12 16 20		14
	-50			
Washed Sample 50.0' to 51.5'		11 14 22		15
609.90				
Hard Gray Silty Clay Loam Till Washed Sample 52.5' to 54.0'		8 10 11	4.1 S	13
	-55	9 11 16	4.4 S	13
		10 13 19	4.2 S	12
	-60			

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard Gray Silty Clay Loam Till *(continued)*		11 14 18	4.4 S	15
	-65	13 16 17	4.4 S	13
595.40				
End of Boring				
	-70			
	-75			
	-80			

SOIL BORING 006-0121.GPJ IL_DOT.GDT 9/2/20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

G21.019 - WO 4 SN 006-0191 Bridge Installation

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation

Page 1 of 2 | Date 6/18/20

ROUTE TR 60-B **DESCRIPTION** TR 60-B over I-80, 4.78 miles East of the Henry County Line **LOGGED BY** Larry Myers

SECTION 06-1HB-2 **LOCATION** SE 1/4, **SEC.** 11, **TWP.** 16N, **RNG.** 6, 4th **PM**, **Latitude** 41.38652, **Longitude** -89.76598

COUNTY Bureau **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 006-0121 (Exist.)
Station 252+46.79

BORING NO. 03 (Center Pier)
Station 19+75
Offset 21.0 ft Lt.
Ground Surface Elev. 641.78 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter 629.3 ft ▼
Upon Completion 613.8 ft ▽
After ____ **Hrs.** ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Brown Silty Clay Loam Fill				
639.28				
Very Stiff Brown Silty Clay Loam Fill		3 2 3	2.5 P	22
637.78				
Loose Brown Fine to Coarse Sand with some Gravel Pieces	-5	3 2 3		9
634.78				
Medium Light Brown Fine Silty Sand		4 6 8		9
	-10	5 5 6		21
629.78				
Medium Brown Fine to Coarse Sand with some Gravel Pieces - Free Water ▼		4 5 6		19
	-15	5 5 7		17
		5 5 6		18
	-20			

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Brown Fine to Coarse Sand with some Gravel Pieces - Free Water *(continued)*		5 6 7		23
620.28				
Dense Gray Fine to Coarse Sand with some Gravel Pockets - Free Water Washed Sample 22.5' to 24.0'		16 19 24		15
	-25			
Washed Sample 25.0' to 26.5'		17 21 23		13
Washed Sample 27.5' to 29.0' ▽		10 14 16		15
	-30			
Washed Sample 30.0' to 31.5'		12 16 16		14
609.78				
Hard Gray Silty Clay Loam Till with some Silt Layers		12 14 16	4.8 S	15
	-35	13 18 21	4.6 S	13
		10 13 14	4.4 S	12
	-40			

SOIL BORING 006-0121.GPJ IL_DOT.GDT 9/2/20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

G21.019 - WO 4 SN 006-0191 Bridge Installation

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation

Page 2 of 2 | Date 6/18/20

ROUTE TR 60-B **DESCRIPTION** TR 60-B over I-80, 4.78 miles East of the Henry County Line **LOGGED BY** Larry Myers

SECTION 06-1HB-2 **LOCATION** SE 1/4, **SEC.** 11, **TWP.** 16N, **RNG.** 6, 4th **PM**, **Latitude** 41.38652, **Longitude** -89.76598

COUNTY Bureau **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 006-0121 (Exist.)
Station 252+46.79

BORING NO. 03 (Center Pier)
Station 19+75
Offset 21.0 ft Lt.
Ground Surface Elev. 641.78 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter 629.3 ft ▼
Upon Completion 613.8 ft ▽
After ____ **Hrs.** ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard Gray Silty Clay Loam Till with some Silt Layers *(continued)*		8 10 14	4.5 S	12
		8 8 15	4.6 S	13
	-45	6 8 14	4.6 S	13
		6 8 10	4.4 S	14
	-50	8 8 10	4.3 S	14
		6 8 12	4.3 S	14
	-55	8 8 10	4.3 S	13
		6 8 10	4.3 S	13
	-60			

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard Gray Silty Clay Loam Till with some Silt Layers *(continued)*		8 9 10	4.3 S	13
580.28				
End of Boring				
	-65			
	-70			
	-75			
	-80			

SOIL BORING 006-0121.GPJ IL_DOT.GDT 9/2/20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

G21.019 - WO 4 SN 006-0191 Bridge Installation

(Sheet 2 of 2)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING DATA STRUCTURE NO. 006-0191	F.A.I. RTE. 80	SECTION (06-1HB)BR
		CHECKED - MTH	REVISED -			COUNTY BUREAU	TOTAL SHEETS 202
	PLOT SCALE =	DRAWN - AJF	REVISED -			SHEET NO. 140	CONTRACT NO. 66K73
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 24 OF 24 SHEETS	ILLINOIS	FED. AID PROJECT

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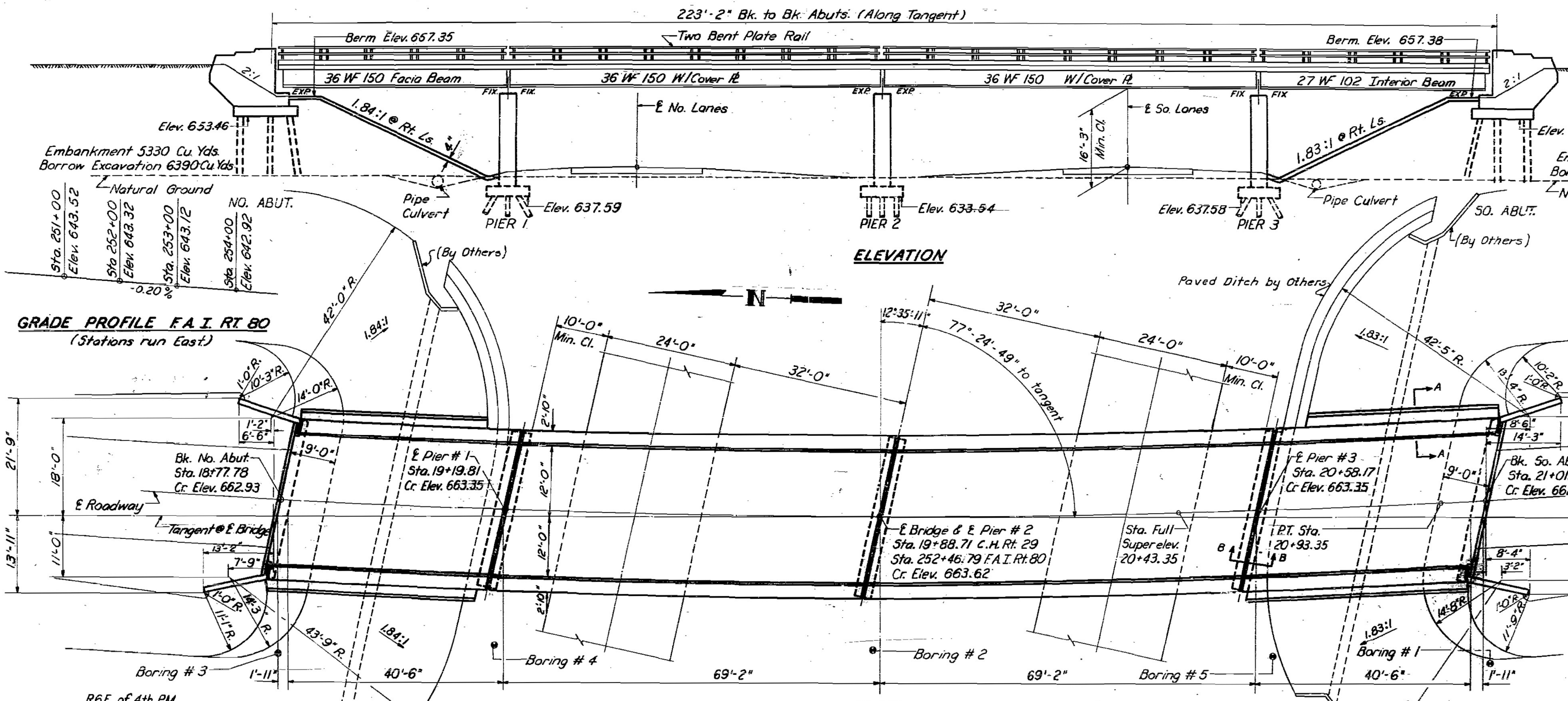
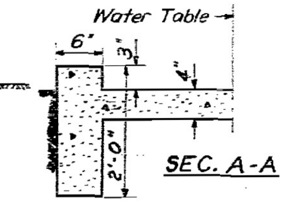
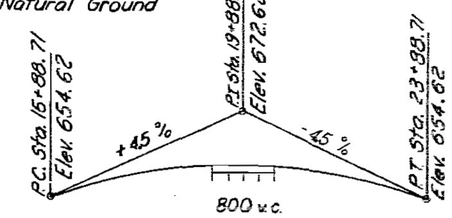
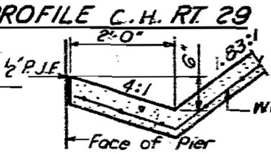
B. M. - Spike and Washer in Power Pole 34' Rt. Sta. 24 + 89.00
Elev. 644.31 (U. S. G. S.)





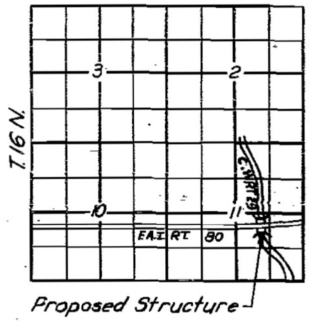


GRADE PROFILE C. H. RT. 29



SECTION B-B

FOR INFORMATION ONLY



LOCATION PLAN

DESIGN STRESSES

fc - 1400 p.s.i. Super. & Sub.
v - 75 p.s.i. Ftgs.
fs - 20,000 p.s.i. Reinf.
fs - 18,000 p.s.i. Struct.
n = 10

GENERAL NOTES

Class X Concrete shall be used throughout.

The Concrete Floor Slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Slope wall shall be reinforced with welded wire fabric, 6" x 6" mesh, #4 wires, weighing 58 # per 100 Sq. Ft.

Rivets 3/4" ϕ, open holes 13/16" ϕ.

All cover plates and beams to which cover plates are welded shall conform to the Specifications for Structural Steel for welding ASTM designation A-373.

All rockers, bolsters, bearing plates, lead plates, pintles, and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel. Estimated Weight = 11070 #.

Anchor bolts shall be set before riveting diaphragms over supports.

All steel handrail posts shall be vertical.

The following surfaces of expansion guards shall be given two shop coats of red lead paint. Outside face of vertical legs and top face of horizontal legs of 4" x 4" x 1/2" Ls.

GENERAL NOTES (CONT.)

Expansion guards are included in quantity of Structural Steel. Estimated Weight = 2756 #.

Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor.

The Contractor shall drive one (1) concrete test pile in a permanent location at the North Abutment and one (1) timber test pile near Pier # 3 as directed by the Engineer before ordering remainder of piles.

Permanent forms will not be permitted in forming the superstructure.

LOADING H15 - S12 - 44

STATION 252 + 46.79
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 06-1-HB-2
F.A. PROJ. I-80-1 (39)
LOADING H15-S12

NAME PLATE LETTERING

See Standard 2113

CURVE DATA

Main Line
P.I. = 252+22.22
I = 2°-32'-00"
D = 0°-10'
T = 760.12
L = 1520.00
E = 8.40
R = 34,377.5

S.A. Rt. 29
P.I. = 17+20.00
I = 22°-42'-40"
D = 3°-00'-00"
T = 383.69
L = 757.04
E = 38.59
R = 1910.08
S.E. = .025 '/FT.

TOTAL BILL OF MATERIAL

	Item	Unit	Superstr.	Substr.	Total
*	Borrow Excavation	Cu. Yds.			11,480
	Class A Excavation for Str.	Cu. Yds.		172	172
	Class X Concrete	Cu. Yds.	202.7	240.3	443.0
	Structural Steel	Lbs.	190,370		190,370
	Metal Handrail	Lin. Ft.	443		443
	Reinforcement Bars	Lbs.	33,100	15,690	48,790
	Creosoted Piles	Lin. Ft.		540	540
	Test Pile (Timber)	Each		1	1
	Concrete Piles	Lin. Ft.		685	685
	Test Pile (Concrete)	Each		1	1
	Name Plates	Each		2	2
	Pipe Culv. Ty. 2.A (RCP Cl. III) 24"	Lin. Ft.			163
**	Slope Wall	Sq. Yds.		483	483
	Protective Coat	Sq. Yds.	782		782

* Quantities included on sheet #5
** Cut-off walls included in quantity of slope wall.

DESIGNED O. J. McCoy
CHECKED William A. Senff
DRAWN W.A.S. J. PUTNAM
CHECKED James M. Pence

Nov. 21 1960

EXAMINED W. E. Baumann — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED [signature] — ENGINEER OF DESIGN
APPROVED R. D. Bartelsmeyer — CHIEF HIGHWAY ENGINEER

GENERAL PLAN AND ELEVATION

PROJECT I-80-1 (39) 40
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 1 of 14)

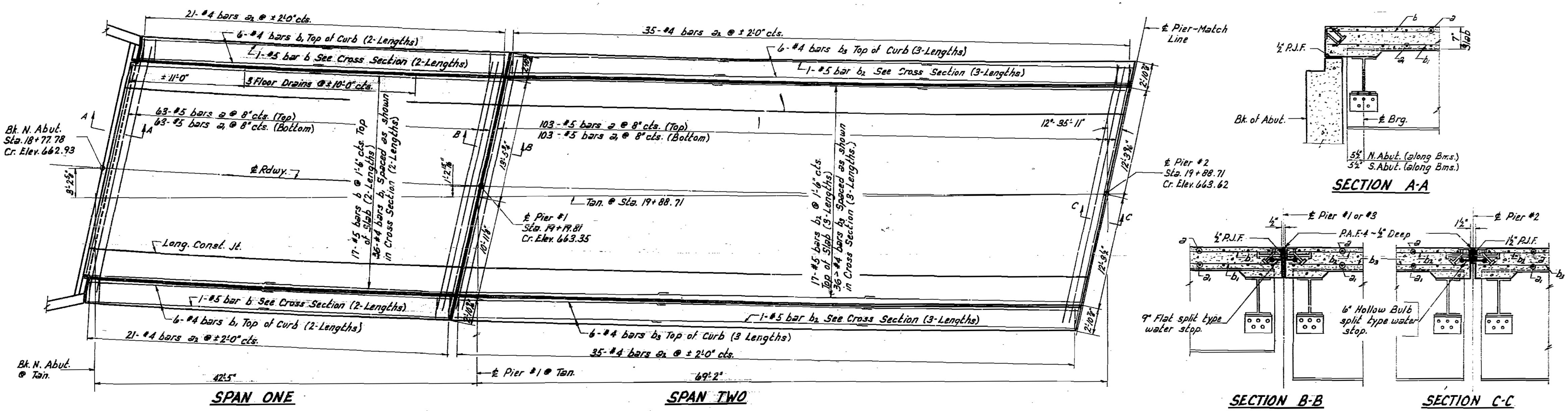
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =		DESIGNED - CL	REVISED -
			CHECKED - MTH	REVISED -
	PLOT SCALE =		DRAWN - AJF	REVISED -
	PLOT DATE =	3/7/2022	CHECKED - MTH	REVISED -

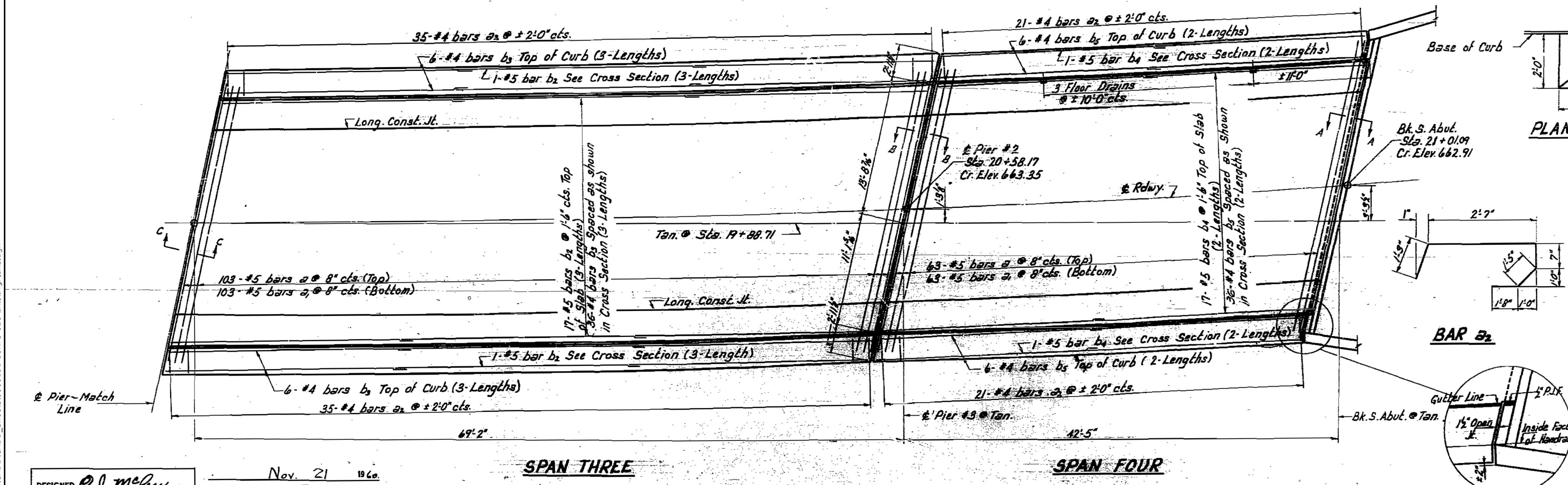
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

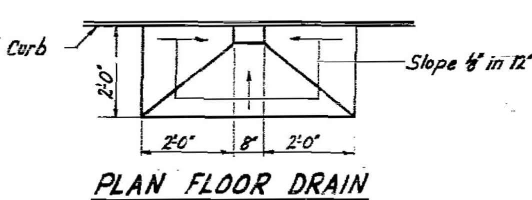
EXISTING PLANS
STRUCTURE NO. 006-0191

SHEET 1 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	141
		CONTRACT NO. 66K73		
	ILLINOIS	FED. AID PROJECT		







BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	332	#5	29'-9"	——
a_1	332	#5	28'-6"	——
a_2	224	#4	7'-6"	⊐
b	38	#5	21'-0"	——
b_1	96	#4	21'-0"	——
b_2	114	#5	23'-9"	——
b_3	288	#4	23'-9"	——
b_4	38	#5	21'-6"	——
b_5	96	#4	21'-6"	——

Class X Concrete	Cu. Yds.	202.7
Reinforcement Bars	Lbs.	33,100
Structural Steel	Lbs.	190,370
Name Plate	Each	2

Weight of Bolster, Rockers, Bearing Plates, Lead Plates and Anchor Bolts included as Structural Steel. Est. Weight = 11,070#

DESIGNED O. J. McCoy
CHECKED William A. Ling
DRAWN W.A.S. P. Lawler
CHECKED James N. Pence

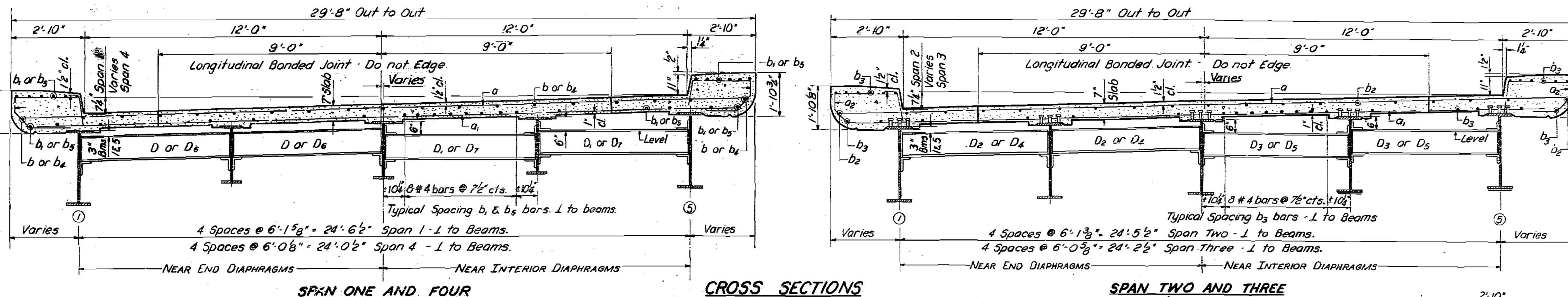
Nov. 21 1960
EXAMINED W. E. Baumann
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED E. F. Schmitt
ENGINEER OF DESIGN
APPROVED R. R. Bartelsmeyer
CHIEF HIGHWAY ENGINEER

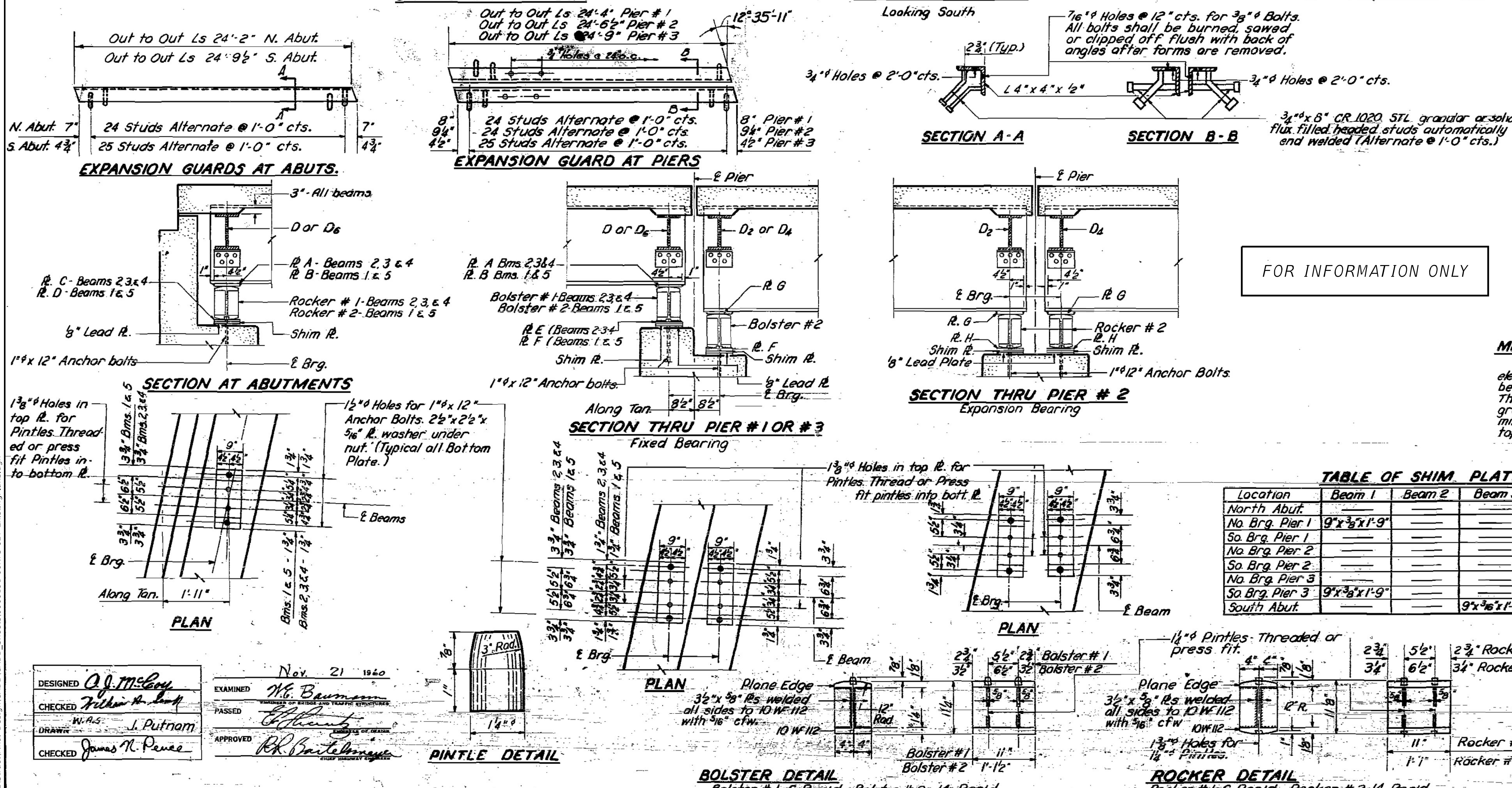
FOR INFORMATION ONLY

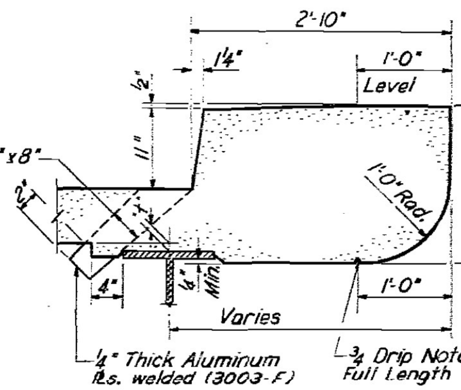
NOTE:
All reinforcement spacing is along or at right angles to ℄ beams.
For Cross Section, Curb Details, and Method of Determining Fillet Heights See Sheet #3

SLAB REINFORCEMENT LAYOUT
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 2 of 14)







CURB DETAIL

Cost of Floor Drains shall be incidental.

FOR INFORMATION ONLY

METHOD OF DETERMINING FILLET HEIGHT "t"

After all Structural Steel has been erected, elevations of the top flanges of the beams shall be taken at intervals as shown on sheet #13. These Elevations subtracted from the theoretical grade elevations, corrected for D. L. Deflection, minus floor thickness, equals the fillet heights above top of beam.

TABLE OF SHIM PLATES

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
North Abut.	—	—	—	—	—
No. Brg. Pier 1	9"x⅜"x1'-9"	—	—	—	9"x⅜"x1'-9"
So. Brg. Pier 1	—	—	—	—	—
No. Brg. Pier 2	—	—	—	—	—
So. Brg. Pier 2	—	—	—	—	—
No. Brg. Pier 3	—	—	—	—	—
So. Brg. Pier 3	9"x⅜"x1'-9"	—	—	—	9"x7/16"x1'-9"
South Abut.	—	—	9"x3/16"x1'-6½"	—	—

TABLE OF BRG. PS.

P	Size	cfw*	No. Req.
A	9"x1"x0'-11"	⅜"	12
B	9"x1"x1'-1"	½"	8
C	9"x1¼"x1'-6½"	—	6
D	9"x1⅜"x1'-8½"	—	4
E	9"x¾"x1'-6½"	⅜"	6
F	9"x1"x1'-9"	⅜"	14
G	9"x1⅜"x1'-1½"	⅝"	20
H	9"x1⅞"x1'-9"	—	10

* c.f.w. required 4 sides. Welding top P. to beams and bottom P. to bolster.

DESIGNED A. J. McCoy
CHECKED Wilbur A. Lock
W.A.S. DRAWN J. Putnam
CHECKED James N. Pence

Nov. 21 1960
EXAMINED W. E. Baumann
PASSED
APPROVED

SLAB DETAILS, BEARING DETAILS, AND EXPANSION GUARDS
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 3 of 14)

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =		DESIGNED - CL	REVISED -
		CHECKED - MTH	REVISED -
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PLOT DATE =	3/7/2022	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0191

SHEET 3 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	143

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT

MODEL: Default
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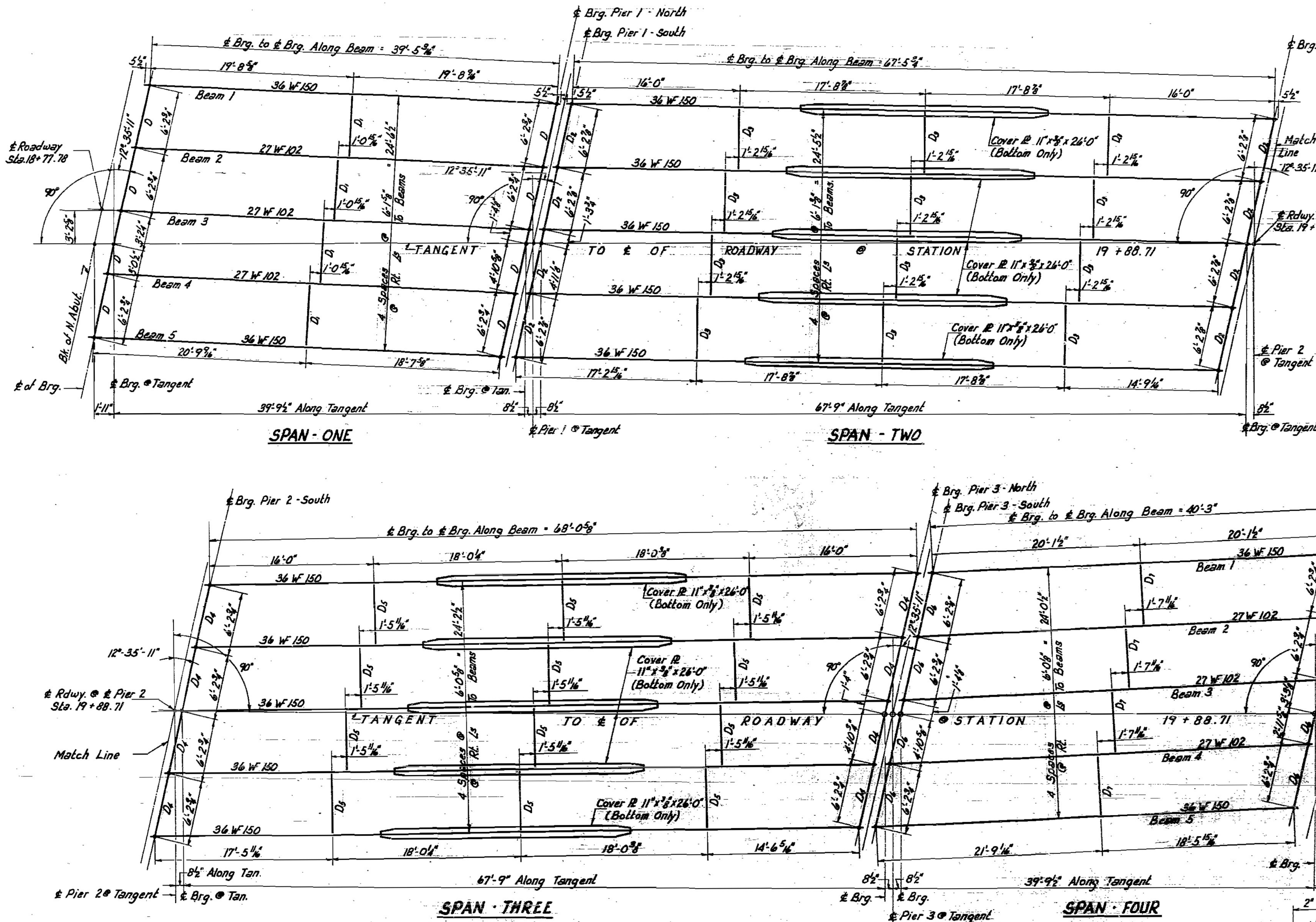
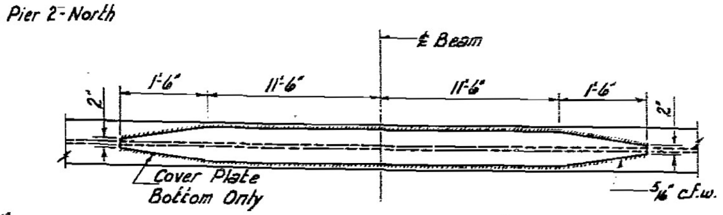
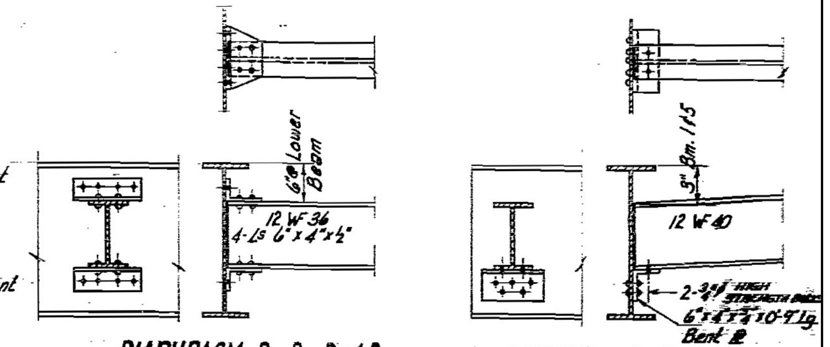




DETAIL OF COVER PLATES



DIAPHRAGM D_1, D_3, D_5 & D_7

D_1 4 ea. Required
D_3 12 ea. Required
D_5 12 ea. Required
D_7 4 ea. Required

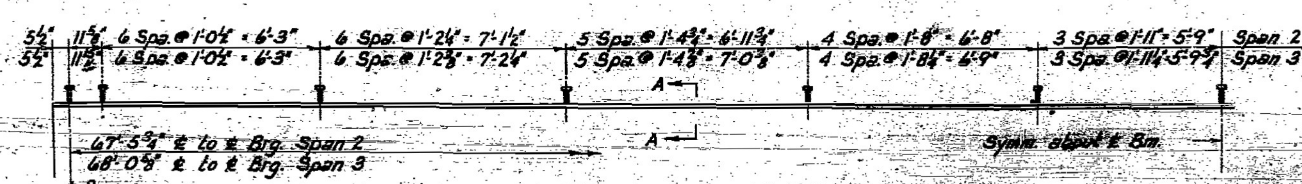
DIAPHRAGM D, D_2, D_4 & D_6

D 8 ea. Required
D_2 8 ea. Required
D_4 8 ea. Required
D_6 8 ea. Required

FOR INFORMATION ONLY

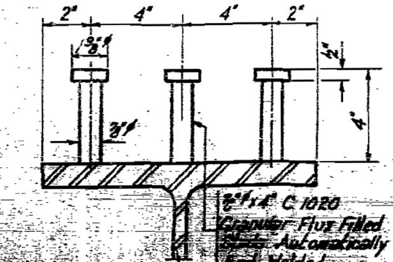
ELEVATIONS TOP OF BEAMS

Location \ Beam	#1	#2	#3	#4	#5
℄ Brg. N. Abut.	662.085	662.227	662.368	662.509	662.651
℄ Brg. Pier 1-N.	662.474	662.616	662.757	662.898	663.039
℄ Brg. Pier 1-S.	662.474	662.616	662.757	662.898	663.039
℄ Brg. Pier 2-N.	662.732	662.873	663.015	663.156	663.297
℄ Brg. Pier 2-S.	662.732	662.873	663.015	663.156	663.297
℄ Brg. Pier 3-N.	662.466	662.607	662.748	662.890	663.031
℄ Brg. Pier 3-S.	662.466	662.607	662.748	662.890	663.031
℄ Brg. S. Abut.	662.068	662.210	662.351	662.331	662.472



STUD SPACING DETAIL
All Beams Span 2 & 3

Note: Studs included in quantity of Structural Steel.



SECTION A-A

DESIGNED	O. J. McCoy
CHECKED	William A. Smith
DRAWN	W. A. S. / P. Lawler
CHECKED	James N. Pence

Nov. 21 1960

EXAMINED W. E. Baumann — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

STRUCTURAL STEEL LAYOUT
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 253 + 46.77

(Sheet 4 of 14)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0191

SHEET 4 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	144
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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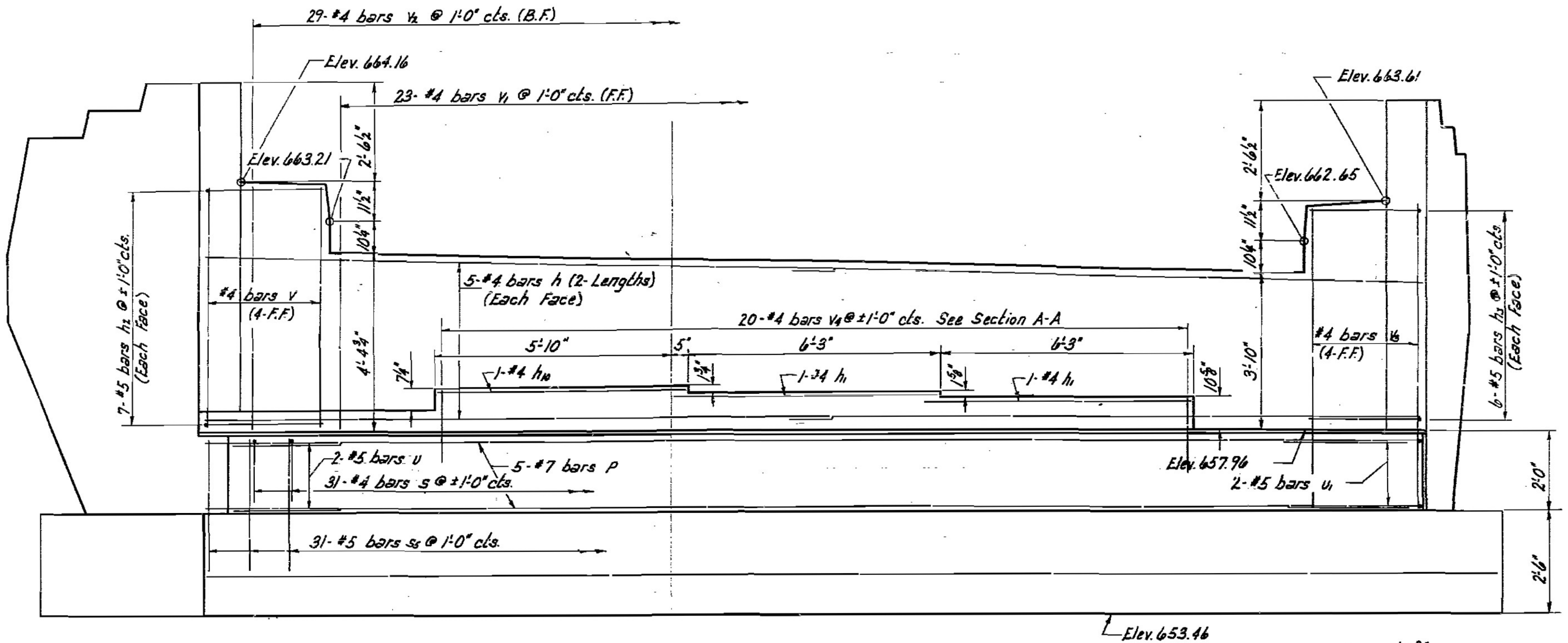

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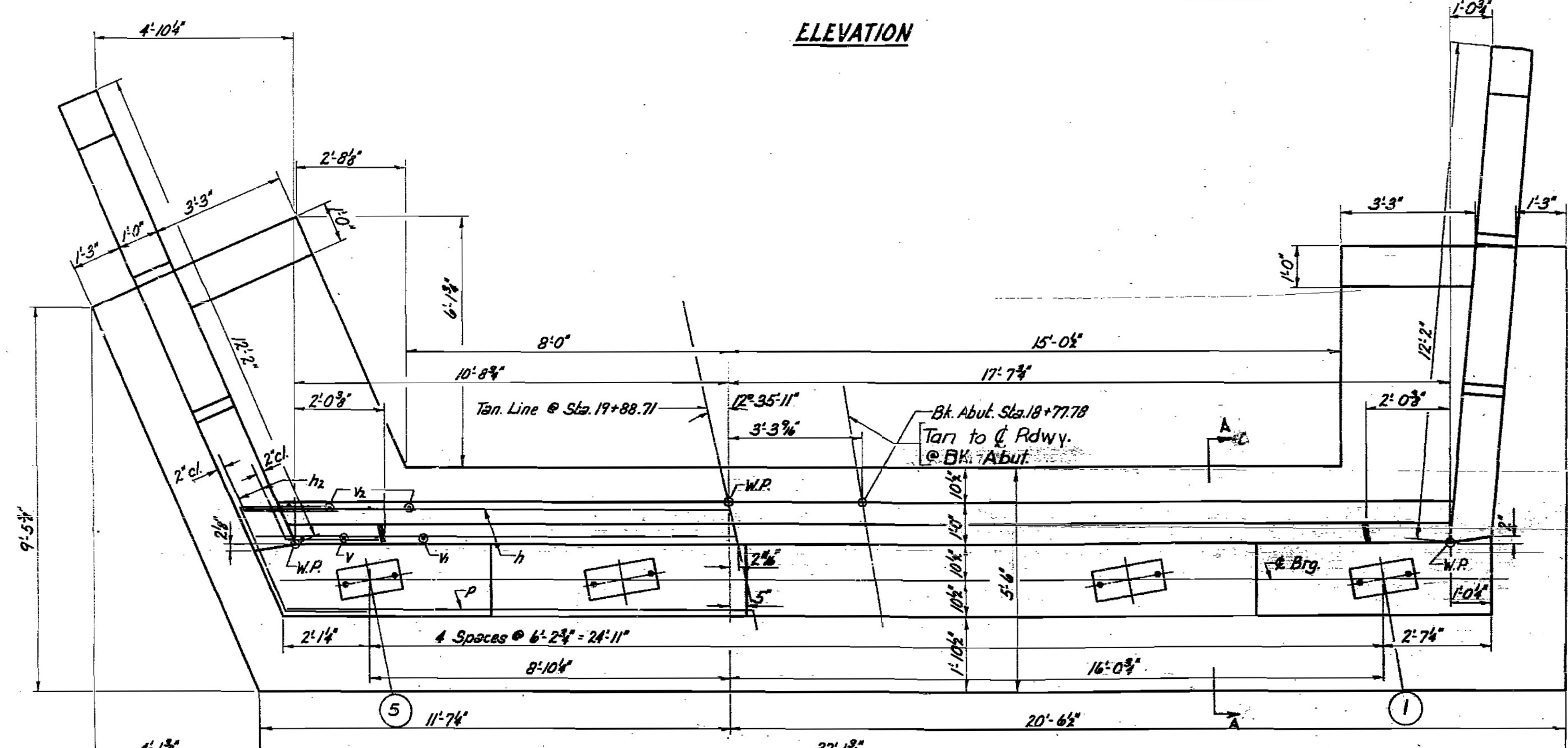
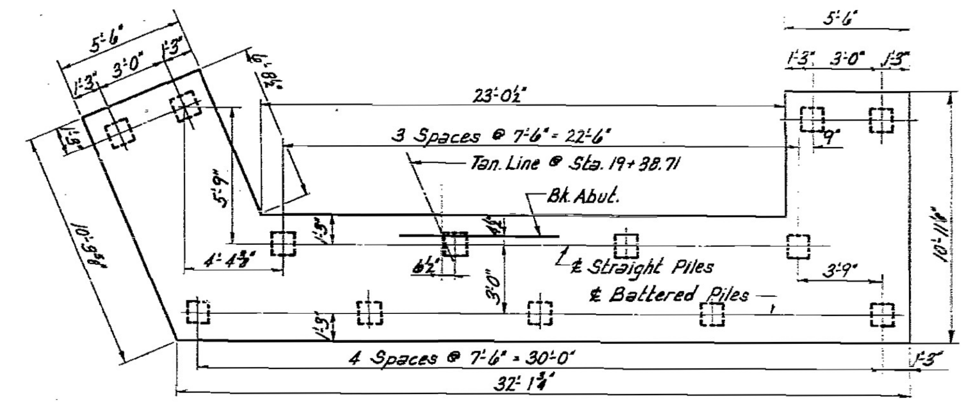
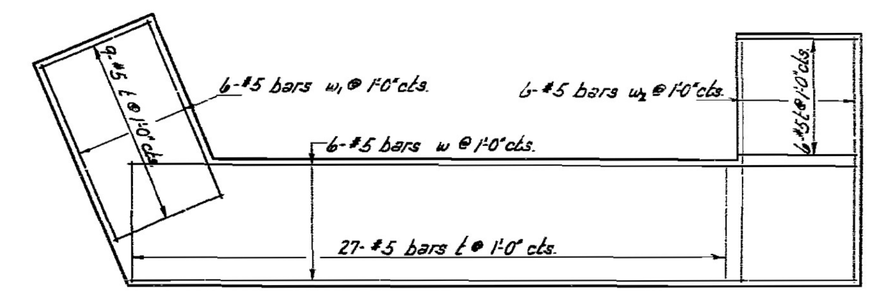


PLAN



Showing Dimensions & Pile Spacing



FOOTING PLAN

Showing Reinforcement

Note:
For Section A-A see sheet #7.

PILE DATA

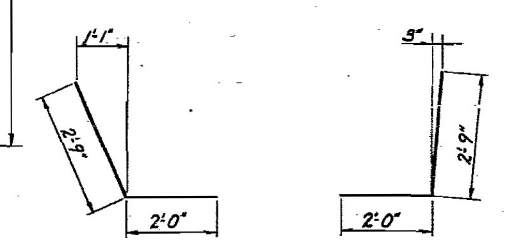
Type - Concrete
Capacity 30 Ton Min.
Est. Length 30' Ft.
No. Req'd. 12+1 Test Pile

FOR INFORMATION ONLY

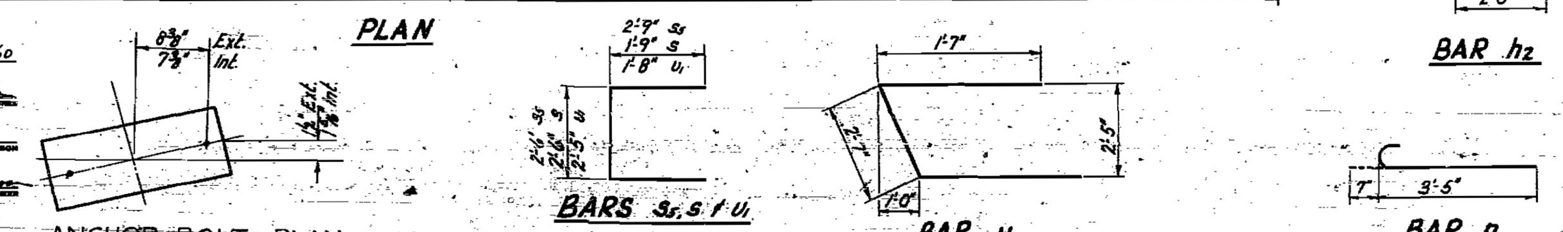
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	20	#4	16'-0"	
h_1	2	#4	6'-6"	
h_2	14	#5	4'-9"	
h_3	12	#5	4'-9"	
h_{10}	1	#4	6'-0"	
n	36	#5	4'-0"	
p	5	#7	29'-3"	
s	31	#4	6'-0"	
s_1	31	#5	8'-0"	
t	42	#5	5'-0"	
u	2	#5	5'-9"	
u_1	2	#5	5'-9"	
v	4	#4	7'-9"	
v_1	23	#4	5'-9"	
v_2	29	#4	5'-3"	
v_3	4	#4	7'-3"	
v_4	20	#4	2'-6"	
w	6	#5	31'-6"	
w_1	6	#5	8'-6"	
w_2	6	#5	10'-6"	
* Class X Concrete			Cu. Yds.	44.5
* Reinforcement Bars			Lbs.	2,550
Concrete Piles			Lin. Ft.	360
Test Piles (Concrete)			Each	1

* Includes Class X Concrete and Reinforcement Bars for End Post.



BAR h_2 BAR h_3



ANCHOR BOLT PLAN BARS s_1, s & u_1 BAR u BAR n

DESIGNED O. J. McCoy
CHECKED William A. ...
DRAWN W.A.S. P. Lawler
CHECKED James M. Pence

Nov. 21 1960
EXAMINED W. E. Baumann, Engineer of Bridge and Traffic Structures
PASSED ..., Engineer of Design
APPROVED R. R. Bartelsmeyer, Chief Highway Engineer

NORTH ABUTMENT
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 5 of 14)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0191

SHEET 5 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	145
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

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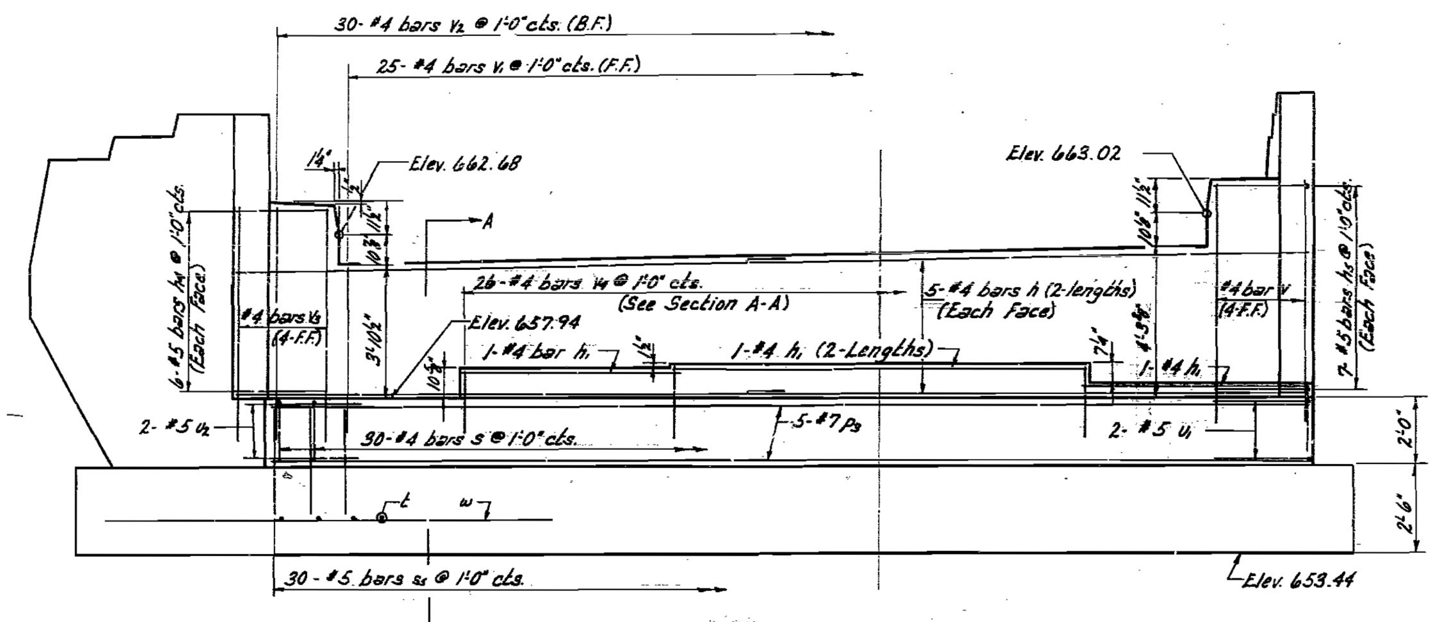

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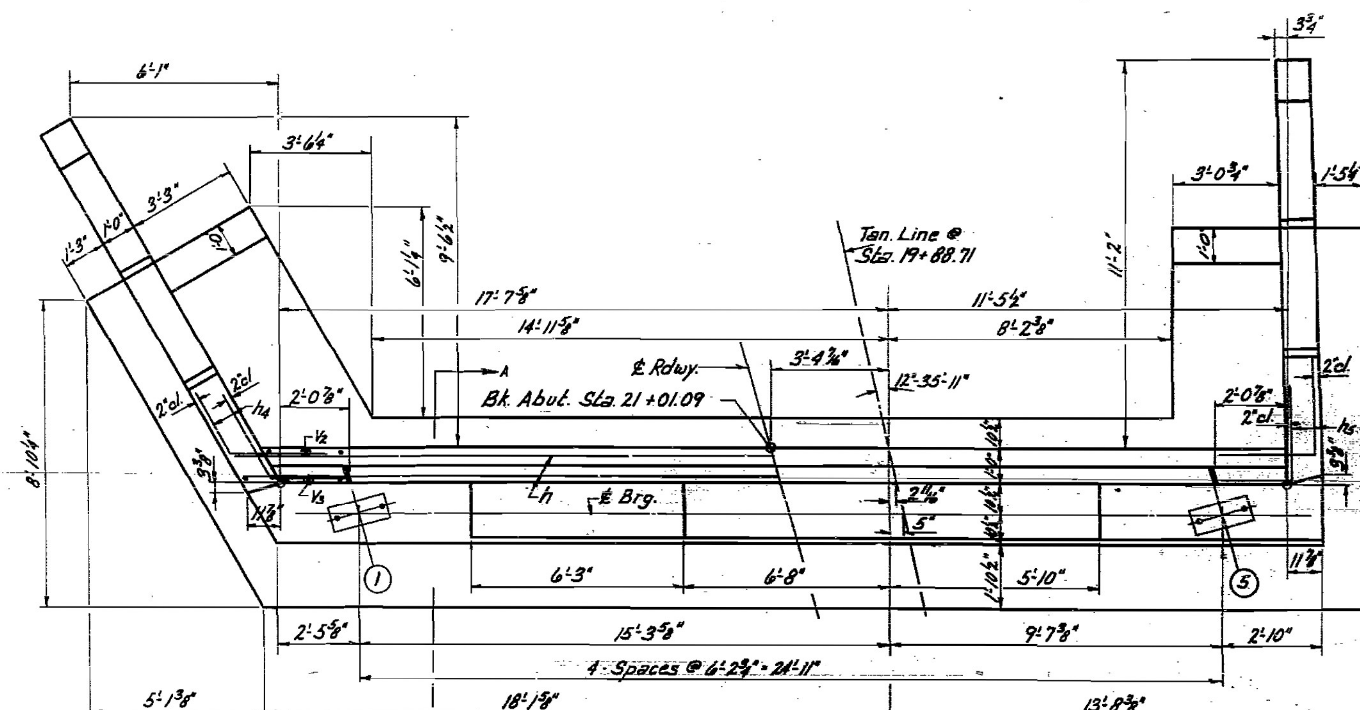
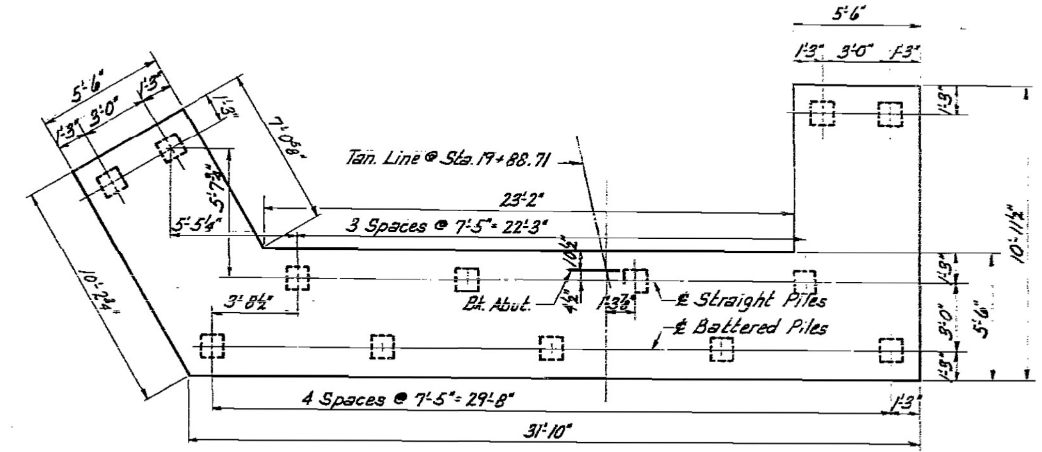
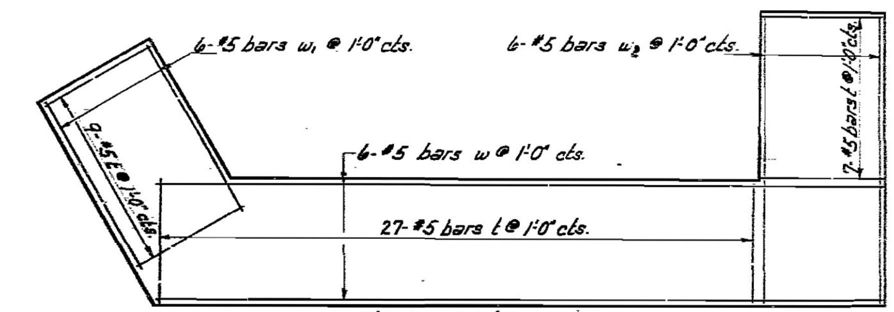


PLAN

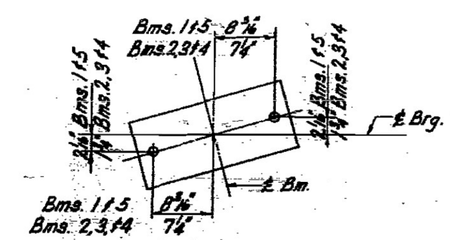


Showing Dimension & Pile Spacing



Showing Reinforcement

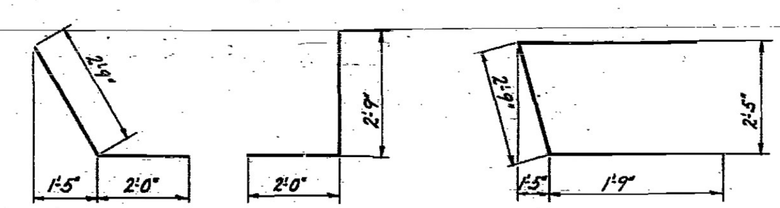
FOOTING PLAN



PLAN BRG. R

Showing Location of Anchor Bolts.

Note:
For Section A-A see sheet #7



BAR h_4 BAR h_5 BAR u_2

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	20	#4	16'-0"	
h_1	4	#4	6'-6"	
h_4	12	#5	4'-9"	
h_5	14	#5	4'-9"	
n	36	#5	4'-0"	
P_3	5	#7	29'-3"	
s	30	#4	6'-0"	
s_f	30	#5	8'-0"	
t	49	#5	5'-0"	
u_1	2	#5	5'-9"	
u_2	2	#5	6'-3"	
v	4	#4	7'-9"	
v_1	25	#4	5'-9"	
v_2	30	#4	5'-3"	
v_3	4	#4	7'-3"	
v_4	26	#4	2'-6"	
w	6	#5	31'-6"	
w_1	6	#5	8'-6"	
w_2	6	#5	10'-6"	
* Class X Concrete			Cu. Yds.	44.5
* Reinforcement Bars			Lbs.	2,570
Concrete Piles			Lin. Ft.	325

*Includes Class X Concrete and Reinforcement Bars for End Posts.

PILE DATA
Type - Concrete
Capacity 30 Tons Min.
Est. Length 25'-0"
No. Reqd. 13

FOR INFORMATION ONLY

DESIGNED O. J. McCoy
CHECKED William A. Senuf
DRAWN W.A.S. P. Lawler
CHECKED James N. Pence

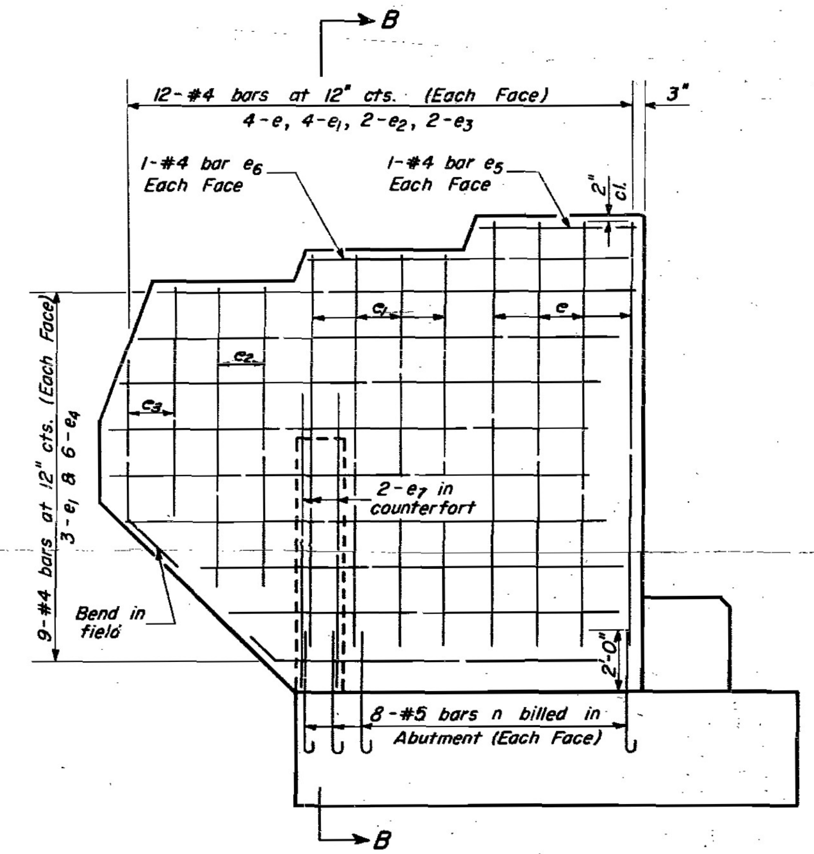
Nov. 21 1960
EXAMINED W. E. Baumann — ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED R. R. Bartelsmeyer — CHIEF HIGHWAY ENGINEER

SOUTH ABUTMENT
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 6 of 14)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 6 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	146
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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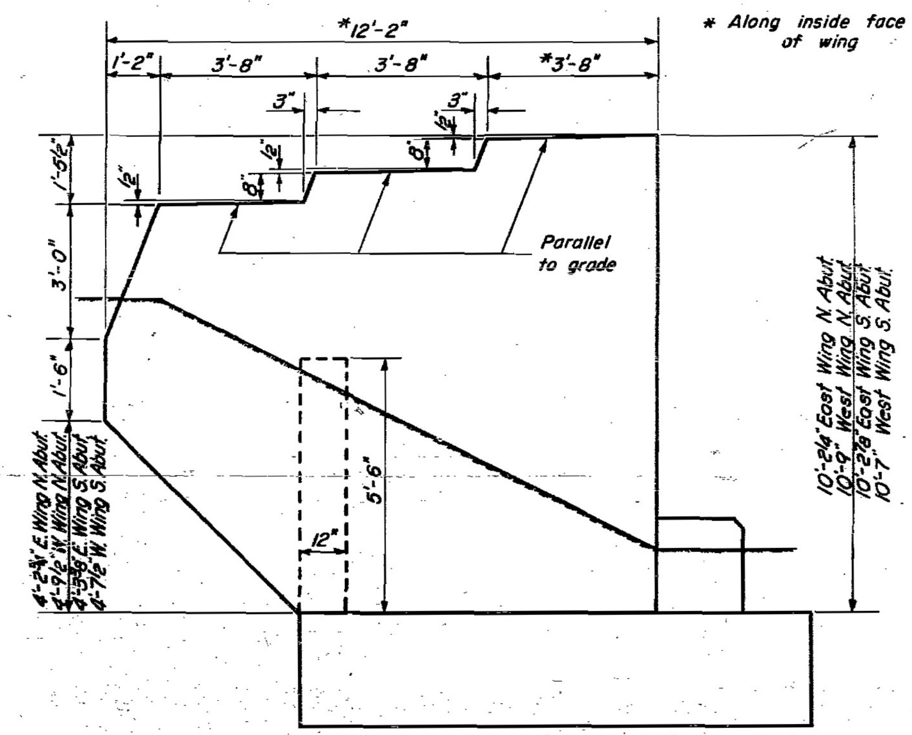

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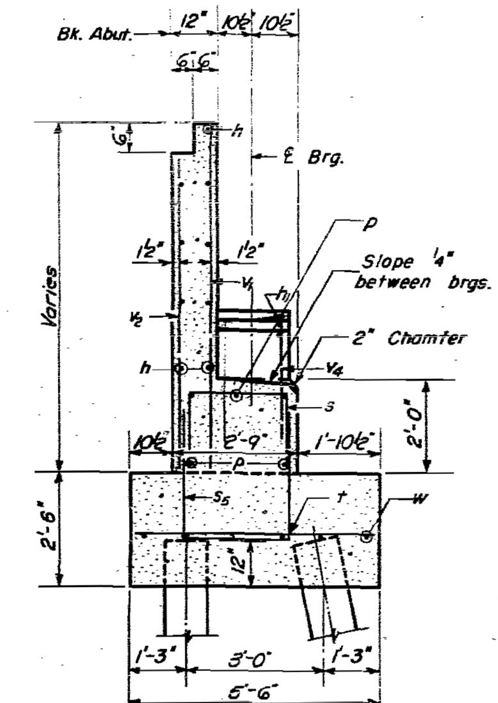
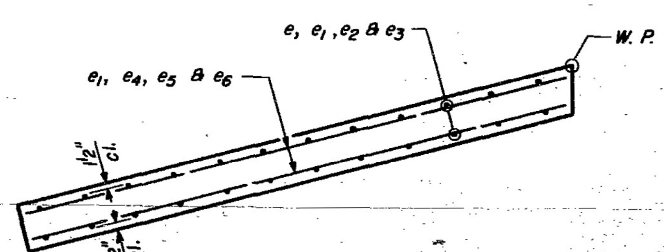
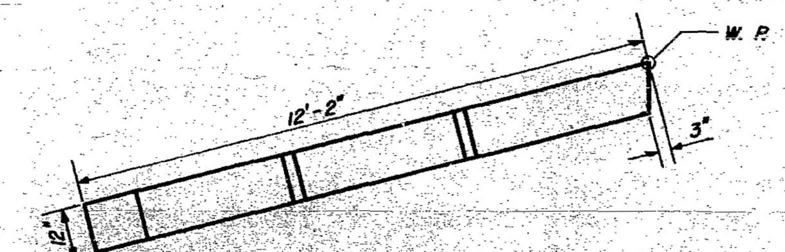


SECTION A-A



PLAN



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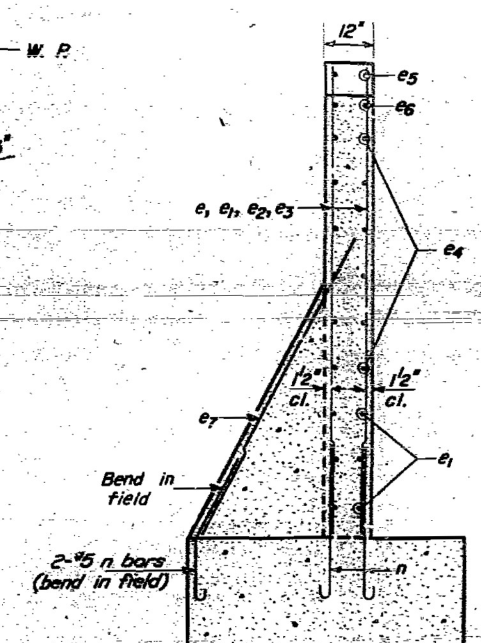

SECTION B-B

ONE END POST BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	8	#4	9'-3"	—
e_1	14	#4	8'-6"	—
e_2	4	#4	6'-6"	—
e_3	4	#4	5'-0"	—
e_4	12	#4	10'-6"	—
e_5	2	#4	3'-6"	—
e_6	2	#4	7'-0"	—
e_7	2	#5	7'-0"	—

Note: End Post Quantities billed with Abutment.

FOR INFORMATION ONLY

DESIGNED O. J. McCoy
CHECKED William A. Senf
WAS J. L. Armstrong
DRAWN W. A. Sausaman
CHECKED James N. Pence

Nov 21 1960
EXAMINED W.E. Baumann — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED R.R. Bartelsmeyer — CHIEF HIGHWAY ENGINEER

AW-1 Drawn 1-29-60

ABUTMENT WING DETAILS
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 7 of 14)

MODEL: Default
FILE NAME: E:\2107-2\Struct\Final Design\CADD\CADD_Sheets\0060191-66K73-031-ExistingPlans.dgn

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	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0191
SHEET 7 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	147

CONTRACT NO. 66K73
ILLINOIS | FED. AID PROJECT

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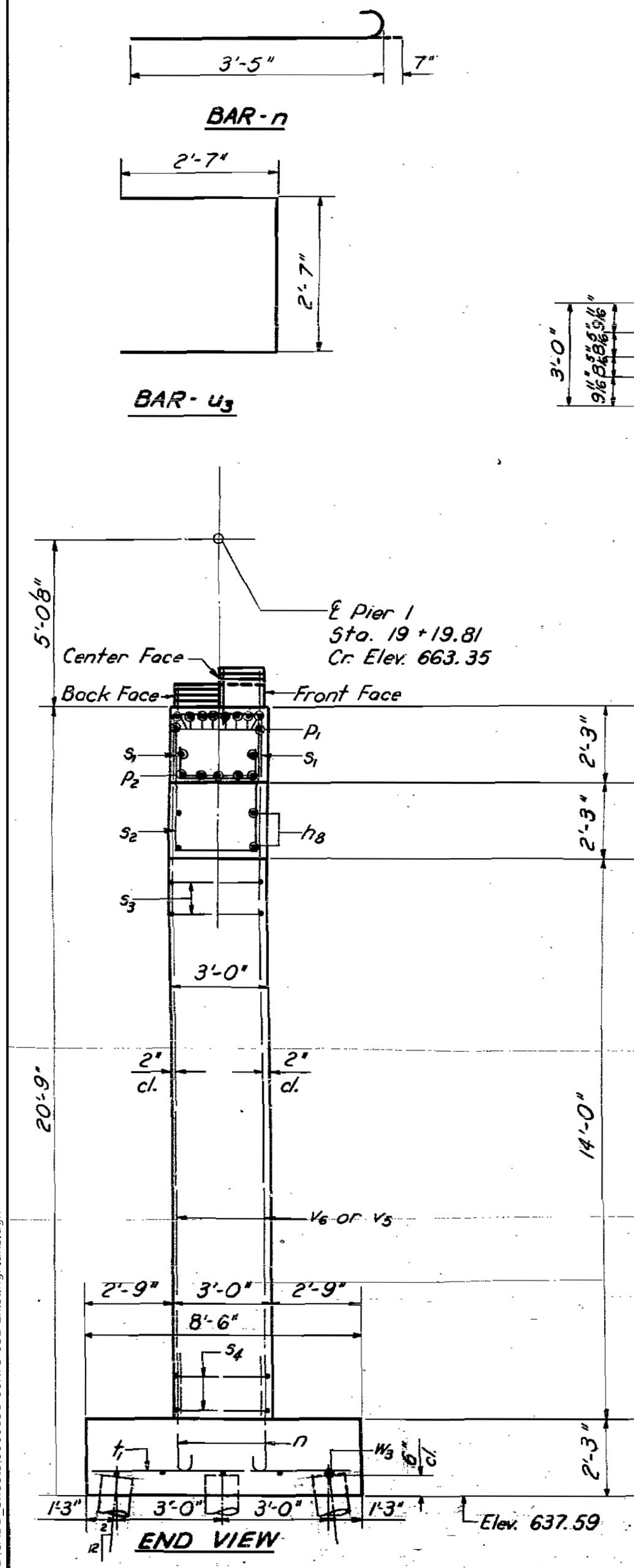
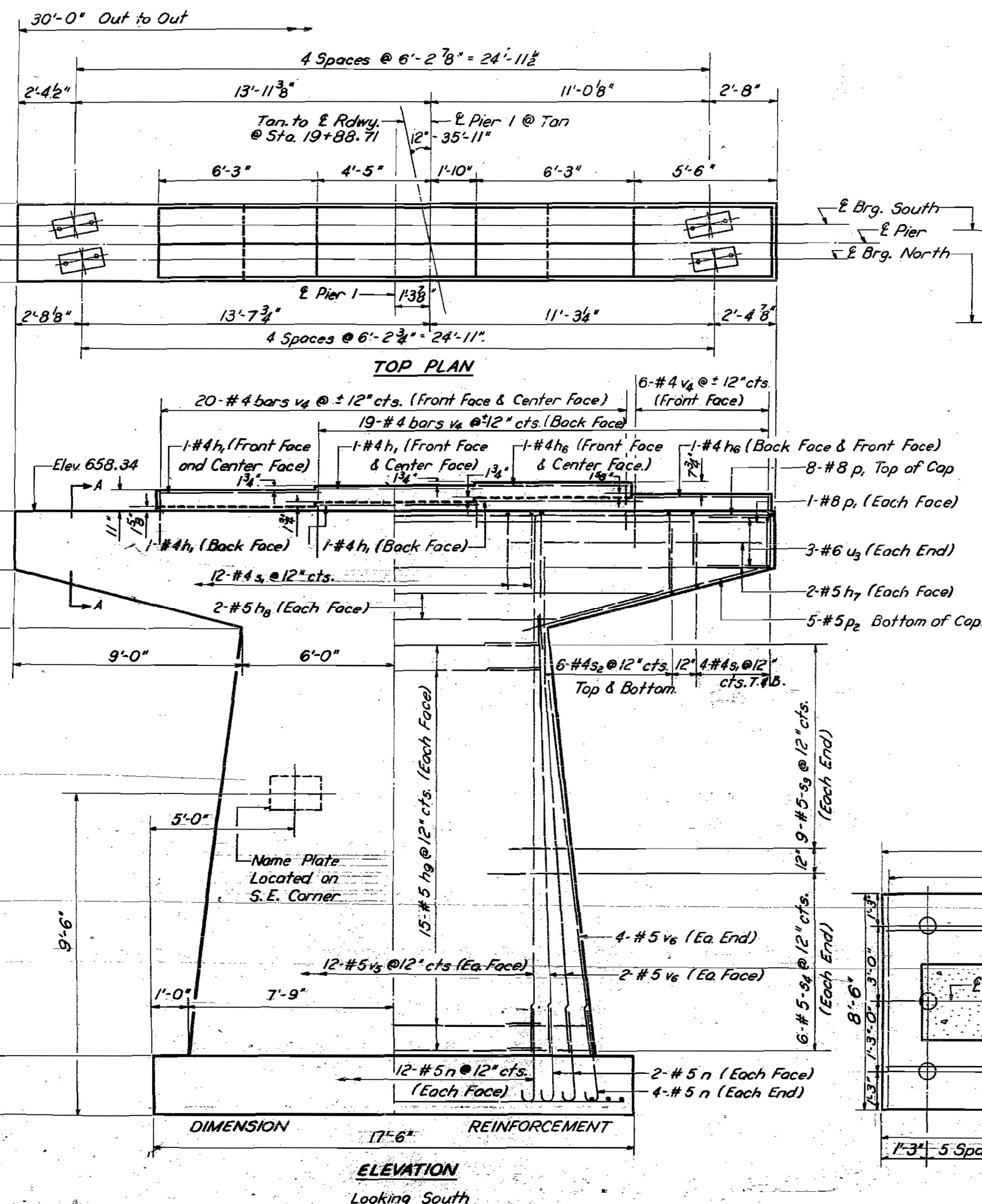
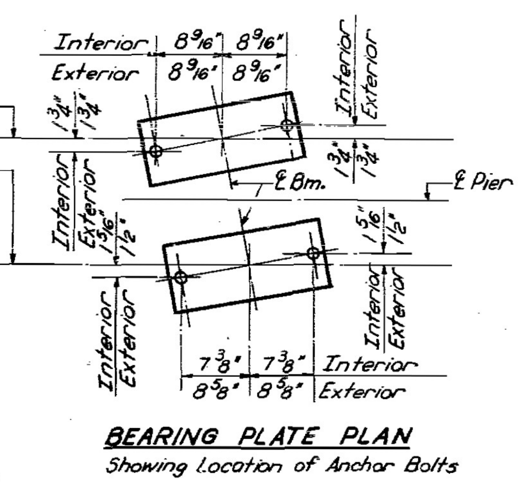
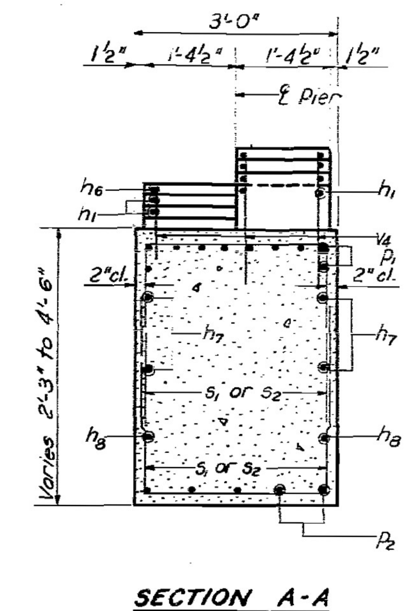
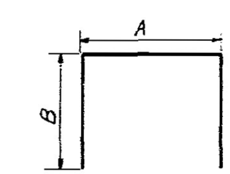




Note:
All exposed edges shall have a ¾" chamfer.







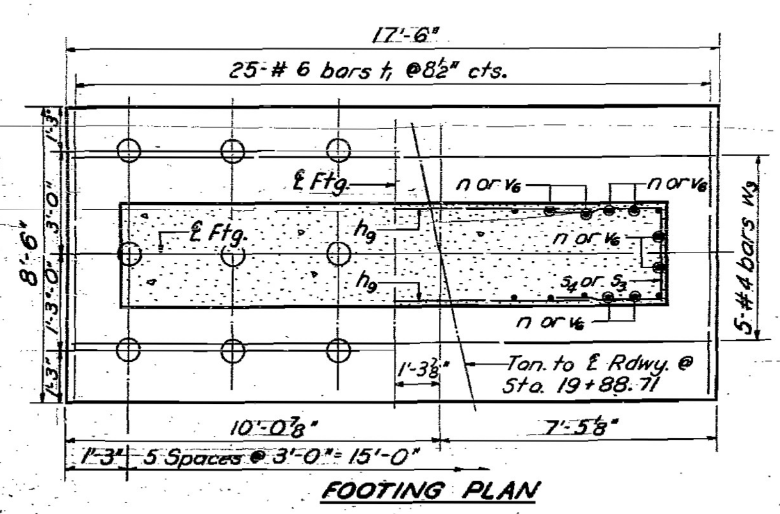
A & B DIMENSIONS

Bar	A	B
s_1	2'-8"	1'-11"
s_2	2'-8"	2'-8"
s_3	2'-9"	2'-6"
s_4	2'-9"	3'-3"

BARS - s_1 - s_2 - s_3 & s_4

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_1	6	# 4	6'-6"	
h_6	4	# 4	5'-3"	
h_7	4	# 5	29'-9"	
h_8	4	# 5	21'-0"	
h_9	30	# 5	11'-9"	
n	40	# 5	4'-0"	
p_1	10	# 8	29'-9"	
p_2	10	# 5	10'-0"	
s_1	28	# 4	6'-6"	
s_2	24	# 4	8'-0"	
s_3	18	# 5	7'-9"	
s_4	12	# 5	9'-3"	
t_1	25	# 6	8'-3"	
u_3	6	# 6	7'-9"	
v_4	65	# 4	2'-6"	
v_5	24	# 5	18'-3"	
v_6	16	# 5	14'-3"	
w_3	5	# 4	18'-9"	
Class X Concrete			Cu. Yds.	48.2
Reinforcement Bars			Lbs.	3440
Class A Excavation for Str.			Cu. Yds.	40.0
Creosoted Piles			Lin. Ft.	180



DESIGNED O. J. McCoy
CHECKED William A. Lany
W.A.S.
DRAWN J. PUTNAM
CHECKED James N. Pence

Nov. 21 1960
EXAMINED W. E. Baumann
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED R. R. Bartelsmeyer
CHIEF HIGHWAY ENGINEER

PILE DATA
Type - Creosoted Piles
Capacity - 20 Tons
Est. Length - 10'-0"
No. Req'd. - 18

FOR INFORMATION ONLY

(Sheet 8 of 14)

PIER # 1
F. A. I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252 + 46.79

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 8 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	148
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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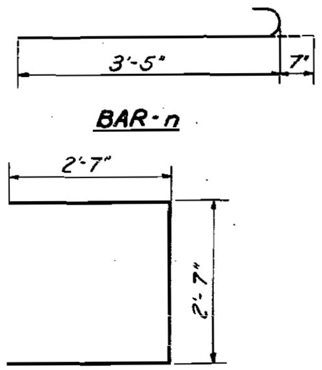
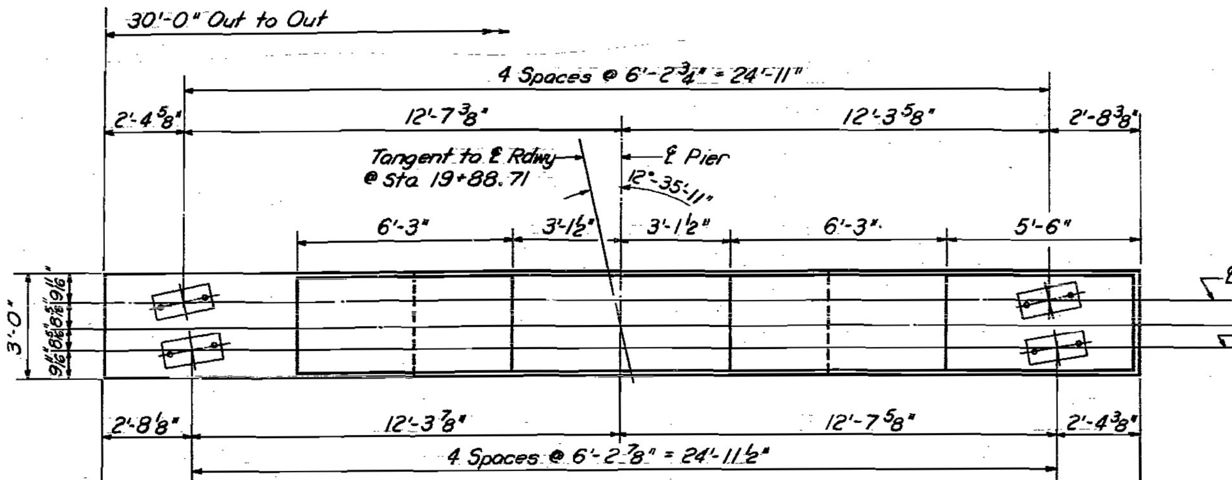


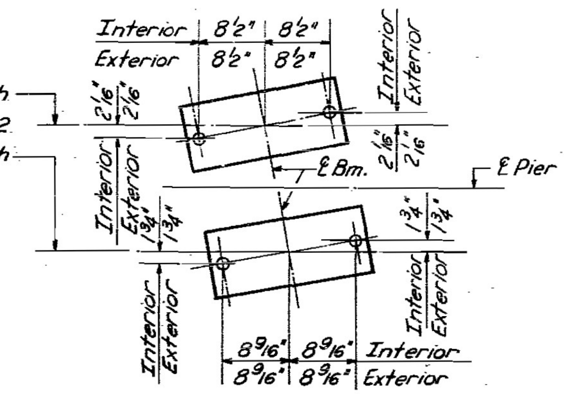
BAR-n

BAR-u_3

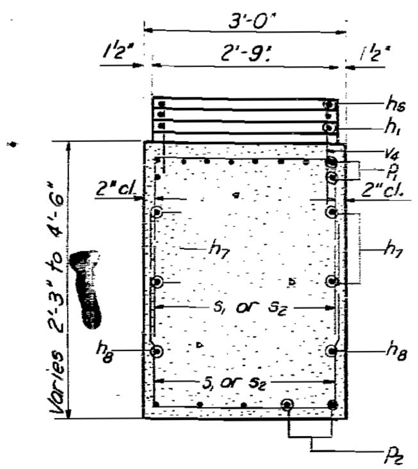


TOP PLAN

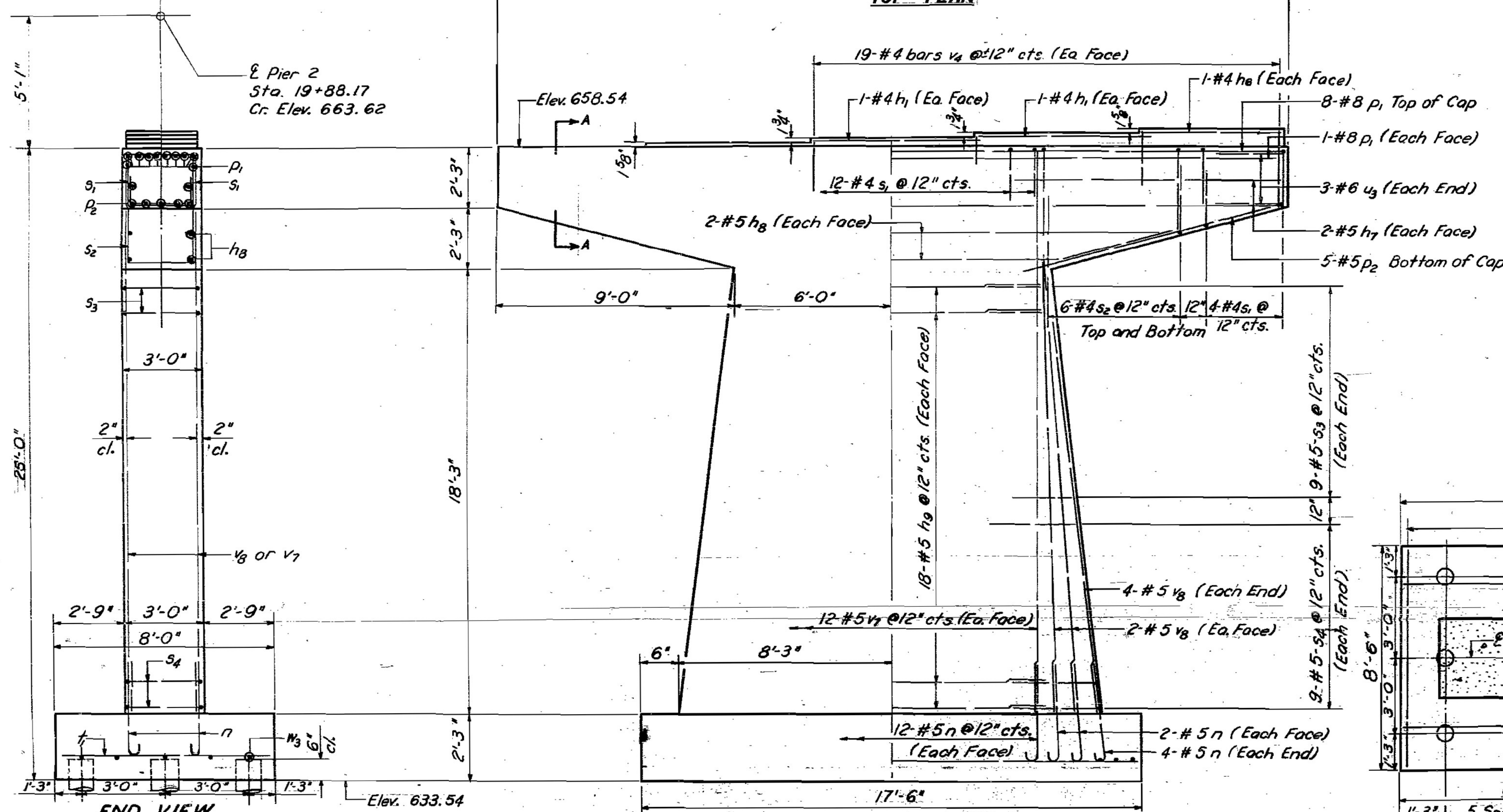
Note:
All exposed edges shall have a 3/4" chamfer.



BEARING PLATE PLAN
Showing Location of Anchor Bolts

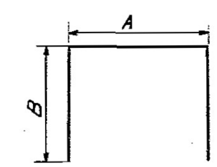


SECTION A-A



END VIEW

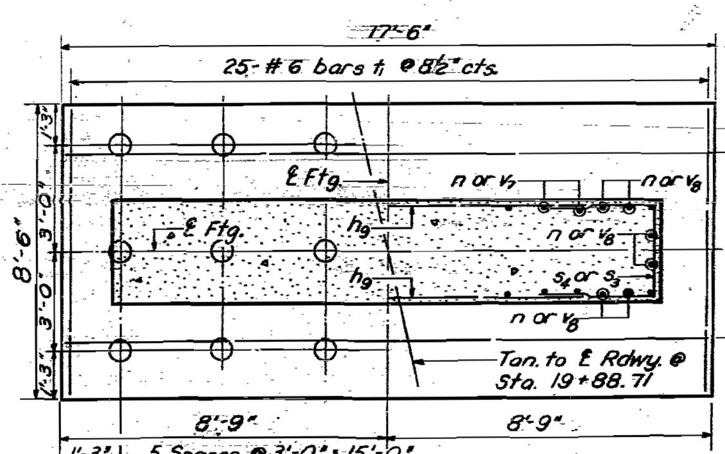
ELEVATION
Looking South



A & B DIMENSIONS

Bar	A	B
s_1	2'-8"	1'-11"
s_2	2'-8"	2'-8"
s_3	2'-9"	2'-6"
s_4	2'-9"	3'-3"

BARS - s_1 - s_2 - s_3 & s_4



FOOTING PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_1	4	# 4	6'-6"	——
h_6	2	# 4	5'-3"	——
h_7	4	# 5	29'-9"	——
h_8	4	# 5	21'-0"	——
h_9	36	# 5	11'-9"	——
n	40	# 5	4'-0"	
p_1	10	# 8	29'-9"	——
p_2	10	# 5	10'-0"	——
s_1	28	# 4	6'-6"	
s_2	24	# 4	8'-0"	
s_3	18	# 5	7'-9"	
s_4	18	# 5	9'-3"	
t_1	25	# 6	8'-3"	——
u_3	6	# 6	7'-9"	
v_4	38	# 4	2'-6"	——
v_7	24	# 5	22'-6"	——
v_8	16	# 5	18'-6"	——
w_3	5	# 4	18'-9"	——
Class X Concrete			Cu. Yds.	54.9
Reinforcement Bars			Lbs.	3690
Class A Excavation for Str.			Cu. Yds.	82.3
Creosoted Piles			Lin. Ft.	180

DESIGNED O. J. McCoy
CHECKED William A. Sowry
DRAWN W.A.S. J. PUTNAM
CHECKED James N. Peace

Nov. 21 1960
EXAMINED W. E. Baumann, ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED ENGINEER OF DESIGN
APPROVED R. R. Bartelsmeyer, CHIEF HIGHWAY ENGINEER

PILE DATA
Type - Creosoted Piles
Capacity - 20 Tons
Est. Length - 10'-0"
No. Req'd. - 18

FOR INFORMATION ONLY

(Sheet 9 of 14)

PIER # 2
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

MODEL: Default
FILE NAME: E:\2107-2\Struct\Final Design\CADD\CADD_Sheets\0060191-66K73-033-ExistingPlans.dgn

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 9 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	149
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

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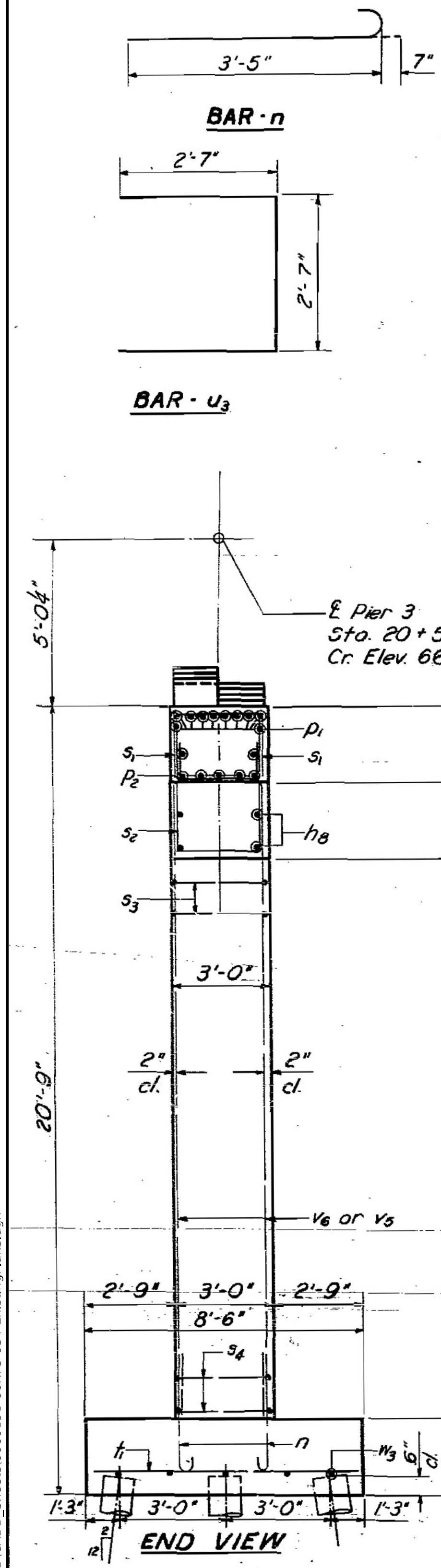
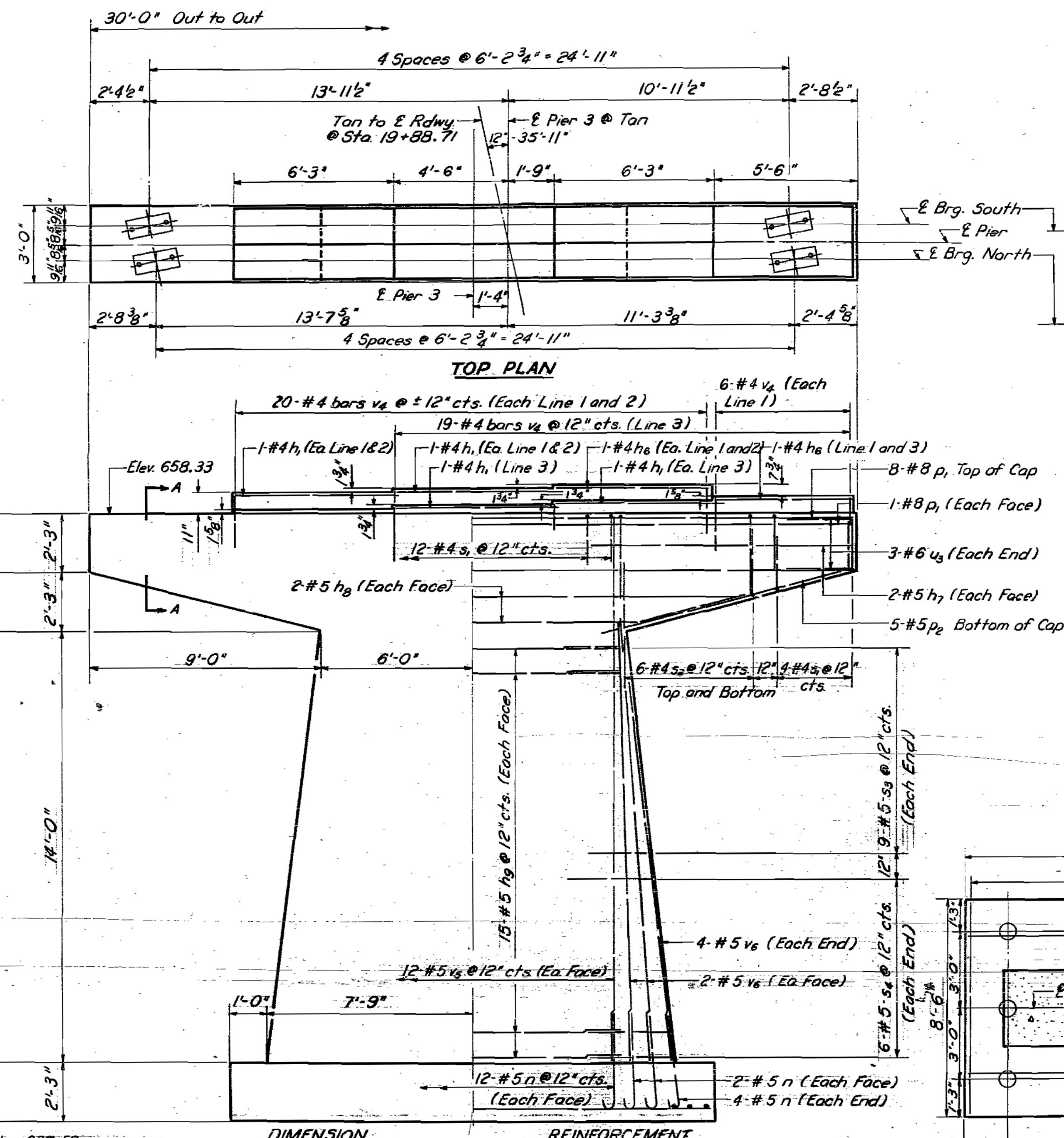
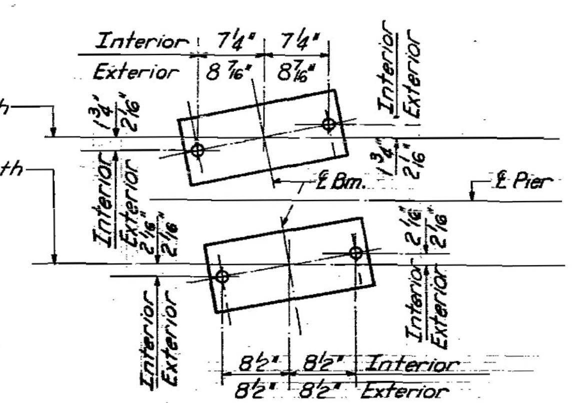


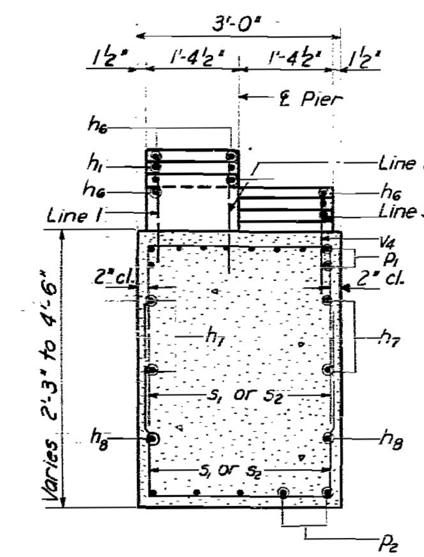


ELEVATION
Looking South

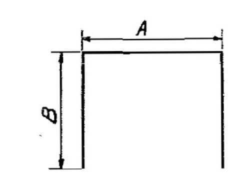
Note:
All exposed edges shall have a ¾" chamfer.



BEARING PLATE PLAN
Showing Location of Anchor Bolts



SECTION A-A



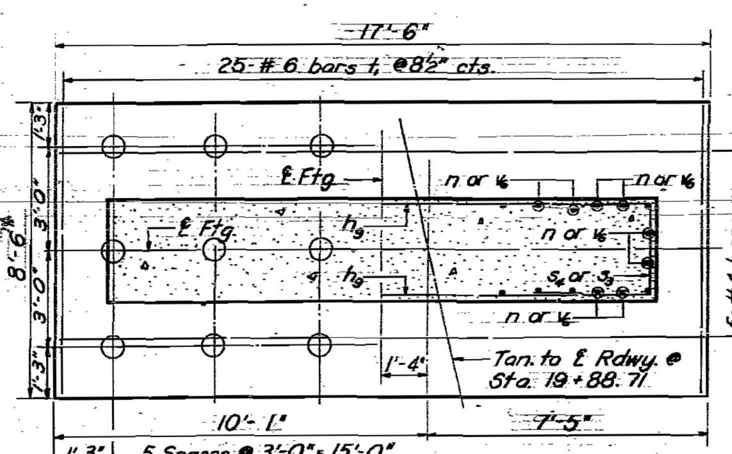
A & B DIMENSIONS

Bar	A	B
s_1	2'-8"	1'-11"
s_2	2'-8"	2'-8"
s_3	2'-9"	2'-6"
s_4	2'-9"	3'-3"

BARS - s_1 - s_2 - s_3 & s_4

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_1	6	# 4	6'-6"	
h_6	4	# 4	5'-3"	
h_7	4	# 5	29'-9"	
h_8	4	# 5	21'-0"	
h_9	30	# 5	11'-9"	
n	40	# 5	4'-0"	
p_1	10	# 8	29'-9"	
p_2	10	# 5	10'-0"	
s_1	28	# 4	6'-6"	
s_2	24	# 4	8'-0"	
s_3	18	# 5	7'-9"	
s_4	12	# 5	9'-3"	
t_1	25	# 6	8'-3"	
u_3	6	# 6	7'-9"	
v_4	65	# 4	2'-6"	
v_5	24	# 5	18'-3"	
v_6	16	# 5	14'-3"	
w_3	5	# 4	18'-9"	
Class X Concrete			Cu. Yds.	48.2
Reinforcement Bars			Lbs.	3440
Class A Excavation for Str.			Cu. Yds.	49.8
Creosoted Piles			Lin. Ft.	180
Test Piles (Timber)			Each	1



FOOTING PLAN

PILE DATA
Type - Creosoted Piles
Capacity - 20 Tons
Est. Length - 10'-0"
No. Req'd. - 18 + 1 Test Pile.

DESIGNED	O. J. McElroy
CHECKED	William A. Sealy
DRAWN	W.A.S. J. PUTNAM
CHECKED	James N. Pence

Nov. 21 1960
EXAMINED W.E. Baumann — Engineer of Bridges and Traffic Structures
PASSED — Engineer of Design
APPROVED R.R. Bartelsmeyer — Chief Highway Engineer

FOR INFORMATION ONLY

(Sheet 10 of 14)

PIER # 3
F. A. I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252 + 46.79

MODEL: Default
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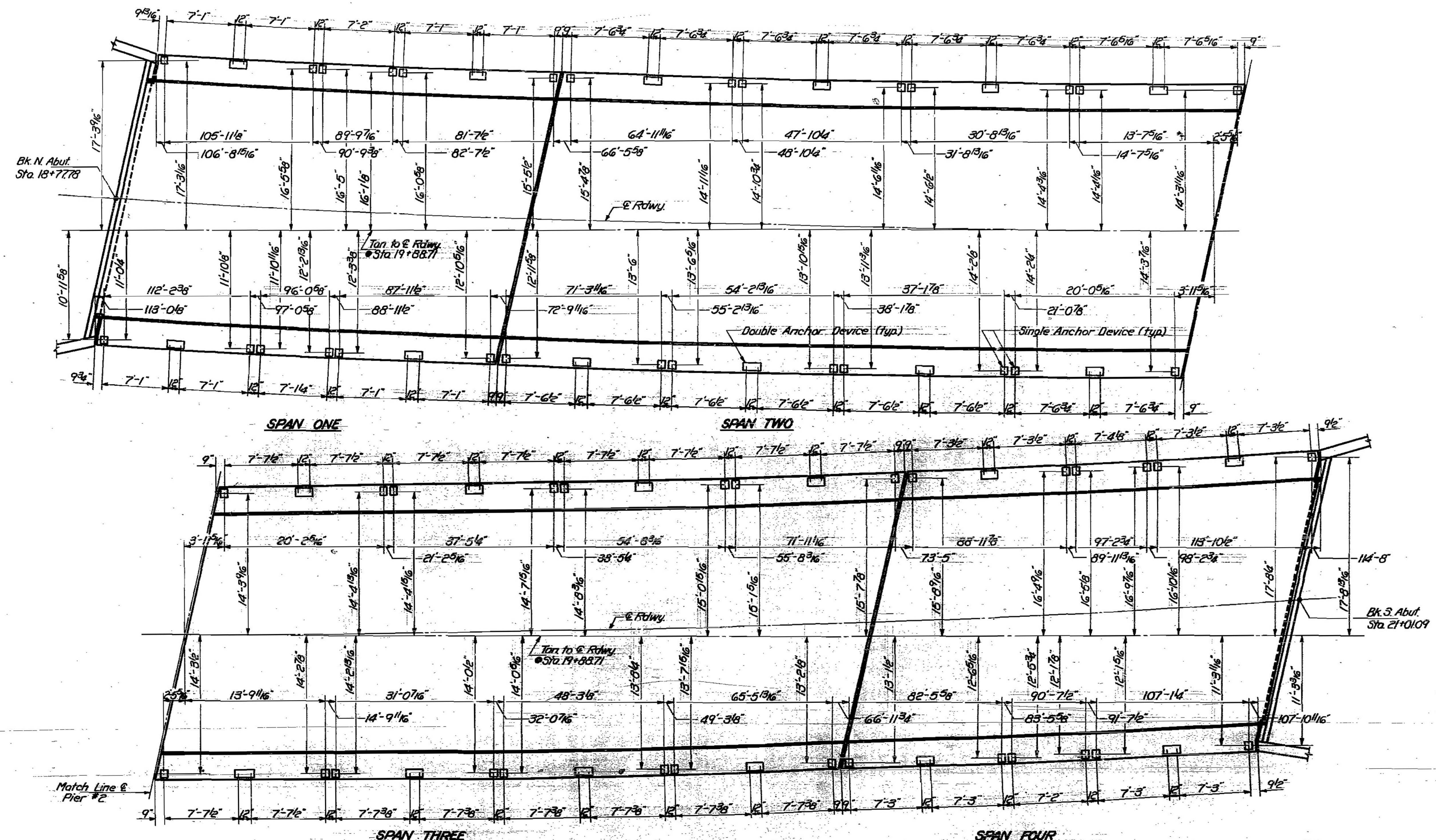
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 10 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	150
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



HANDRAIL LAYOUT
Showing Location of Anchor Device

Note
All Panel dimensions are chord dimensions between single anchor devices.
All tie down dimensions are parallel or at right angles to tangent line and are measured to ℄ of rail.
For details see Sheet #12

DESIGNED	O. J. McCoy
CHECKED	William A. ...
DRAWN	J. L. Armstrong
CHECKED	James N. Pence

Nov. 21 1960
EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED R. R. Bartelsmeyer — CHIEF HIGHWAY ENGINEER

FOR INFORMATION ONLY

HANDRAIL LAYOUT
F.A.I. RT. 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

(Sheet 11 of 14)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -
		CHECKED - MTH	REVISED -
	PLOT SCALE =	DRAWN - AJF	REVISED -
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 006-0191
SHEET 11 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	151
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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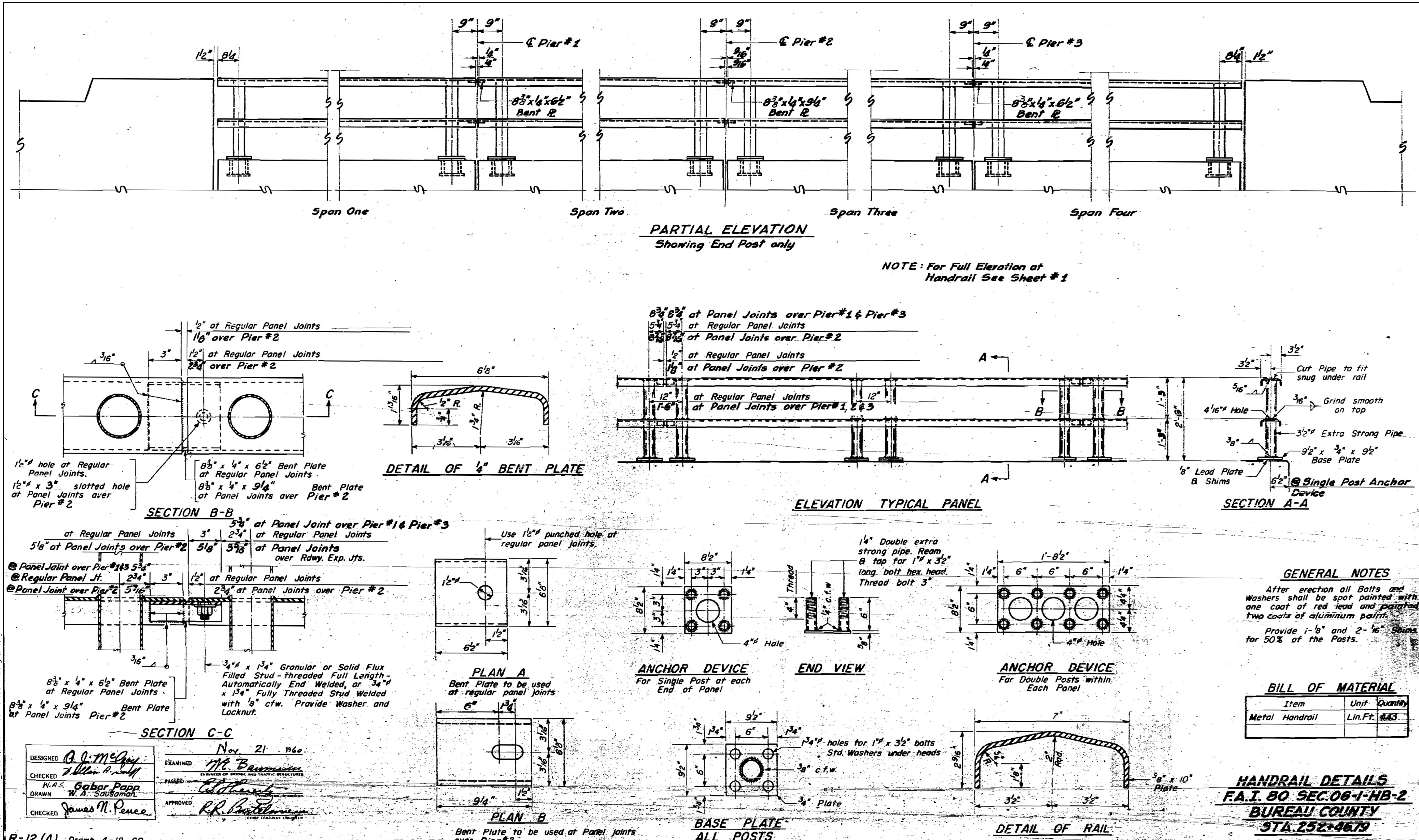

FOR INFORMATION ONLY

(Sheet 12 of 14)

MODEL: Default
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LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0191	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MTH	REVISED -			80	(06-1HB)BR	BUREAU	202	152
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	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 12 OF 14 SHEETS			ILLINOIS FED. AID PROJECT		

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Description	Elevation	Blows per foot	Qu
Boring No. 1			
Boring located at Station 21+00, 21 Ft Rt Centerline.			
Surface of Ground.	643.1		
Medium to stiff brown sandy clay.			
	639.0		
Medium brown subangular well graded sand and small gravel.	638.0	26	
	637.0		
	636.0		
	635.5	55	
Very dense brown very fine sand.	634.5		
	633.0	51	
	632.0		
	631.0		
	630.5	62	
Very dense brown poorly graded sand and occasional small gravel.	629.5		
	628.0		
	627.0	50	
	626.0		
Medium gray uniform fine sand.	625.5	23	
	624.5		
	624.0		
Dense gray uniform fine sand.	623.0	33	
	622.0		
Dense gray uniform fine sand.			
	621.0		
	620.5	46	
	619.5		
Dense gray well graded fine sand.	618.0	40	
	617.0		
	615.5	39	
	614.5		
	613.0	43	
	612.0		

Description	Elevation	Blows per foot	Qu
Boring No. 2			
Boring located at Station 19+88, 21 Ft Rt Centerline.			
Surface of Ground.	641.9		
Stiff to medium brown silty sandy clay.			
	638.0		
Loose brown fine sand.	637.0	4	
	636.0		
	635.5		
	634.5	13	
Medium brown fine sand.	633.5		
	632.0	17	
	631.0		
	630.0		
	629.5	38	
	628.5		
Dense brown well graded sand and occasional small gravel.	627.0	36	
	626.0		
	624.5	42	
	623.5		
	623.0		
Dense gray uniform fine sand.	622.0	41	
	621.0		
	620.0		
	619.5	30	
	618.5		
	617.0	30	
	616.0		
Dense gray well graded sand and occasional small gravel.	614.5	34	
	613.5		
	612.0	37	
	611.0		
	610.0		
Dense gray silty fine sand.	609.5	42	
	608.5		
	608.0		
	607.0	20	3.42
	606.0		
Very stiff gray pebbley clay till.			
	602.0	20	2.66
	601.0		

Description	Elevation	Blows per foot	Qu
Boring No. 3			
Boring located at Station 18+77, 21 Ft Rt Centerline.			
Surface of Ground.	641.3		
Stiff to medium brown silty sandy clay.			
	637.5		
Loose brown fine sand.	636.5	5	
	635.5		
	634.5		
Medium brown fine sand.	634.0	15	
	633.0		
	632.0		
Dense brown fine sand.	631.5	37	
	630.5		
	629.5		
	629.0	40	
	628.0		
Dense brown well graded sand and occasional gravel.	626.5	45	
	625.5		
	624.5		
Medium gray poorly graded sand.	624.0	19	
	623.0		
Medium gray poorly graded sand.			
	621.5	28	
	620.5		
	619.5		
Dense gray uniform sand, occasional pebbles.	619.0	49	
	618.0		
	617.5		
	616.5	100	
	615.5		
Very dense gray well graded sand and occasional small gravel.	614.0	53	
	613.0		
	612.0		
	611.5	30	Lost
	610.5		
Very stiff gray pebbley clay till.	609.0	30	Lost
	608.0		
	606.5	30	3.21
	605.5		

Note:
N = Blows per foot of penetration of Sampling Spoon. Hammer weight = 350 Lbs. Drop = 12 inches.
qu = Unconfined compressive strength in tons per sq foot.

Description	Elevation	Blows per foot	Qu
Boring No. 4			
Boring located at Station 19+19, 20 Ft Rt Centerline.			
Surface of Ground.	640.8		
Medium to stiff brown silty sandy clay.			
	637.0		
	636.0	13	
	635.0		
Medium brown fine sand.	633.5	19	
	632.5		
	631.0	25	
	630.0		
	629.5		
Dense brown well graded sand and occasional gravel.	628.5	36	
	627.5		
	627.0		
Very dense brown well graded sand and occasional small gravel.	626.0	55	
	625.0		
	624.0		
	623.5	43	
Dense gray poorly graded sand and occasional small gravel.	622.5		
	621.0	32	
	620.0		
Dense gray poorly graded sand and occasional small gravel.	618.5	39	
	617.5		
	617.0		
Very dense brown well graded sand and occasional small gravel.	616.0	54	
	615.0		
	614.0		
	613.5	34	
Dense gray sand and occasional gravel.	612.5		
	611.5		
Very dense gray sandy silt with clay lenses.	611.0	59	
	610.0		
	609.5		
Hard gray clay till.			
	606.0	43	7.36
	605.0		

Description	Elevation	Blows per foot	Qu
Boring No. 5			
Boring located at Station 20+59, 20 Ft Rt Centerline.			
Surface of Ground.	642.5		
Medium to stiff brown silty sandy clay.			
	638.5		
Loose brown fine sand.	637.5	8	
	636.5		
	635.5		
	635.0	47	
Dense brown fine silty sand.	634.0		
	632.5	48	
	631.5		
	630.5		
Very dense brown well graded sand and occasional small gravel.	630.0	52	
	629.0		
	628.5		
	627.5	29	
Medium brown well graded sand, occasional small gravel.	626.5		
	625.0	26	
	624.0		
	623.0		
Medium gray fine silty sand.	622.5	29	
	621.5		
	620.5		
	620.0	40	
Dense gray fine silty sand, occasional pebbles.	619.0		
	617.5	43	
	616.5		
	615.5		
	615.0	31	
Dense gray well graded sand, occasional pebbles.	614.0		
	612.5	36	
	611.5		
	610.5		
Very dense gray well graded sand, occasional pebbles.	610.0	75	
	609.0		
	608.5		
Hard gray pebbley clay till, with layers of fine silty sand.	607.5	61	4.13
	606.5		

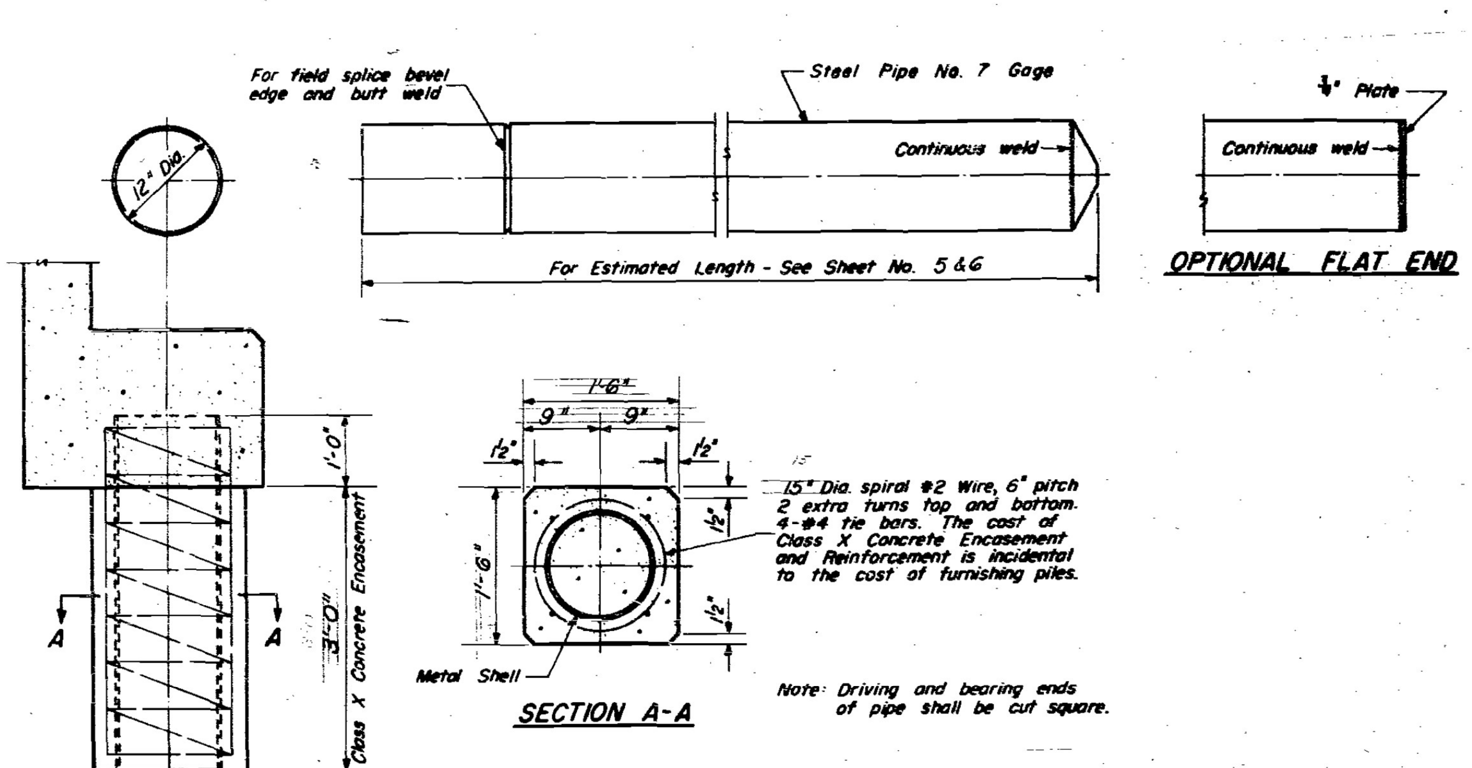
DESIGNED	
CHECKED	
DRAWN	J. Putnam
CHECKED	

Nov. 21 1960
EXAMINED W. E. Baumann, Engineer of Bridge and Traffic Structures
PASSED E. Ebersold (?), Engineer of Design
APPROVED R. R. Bartelsmeyer, Chief Highway Engineer

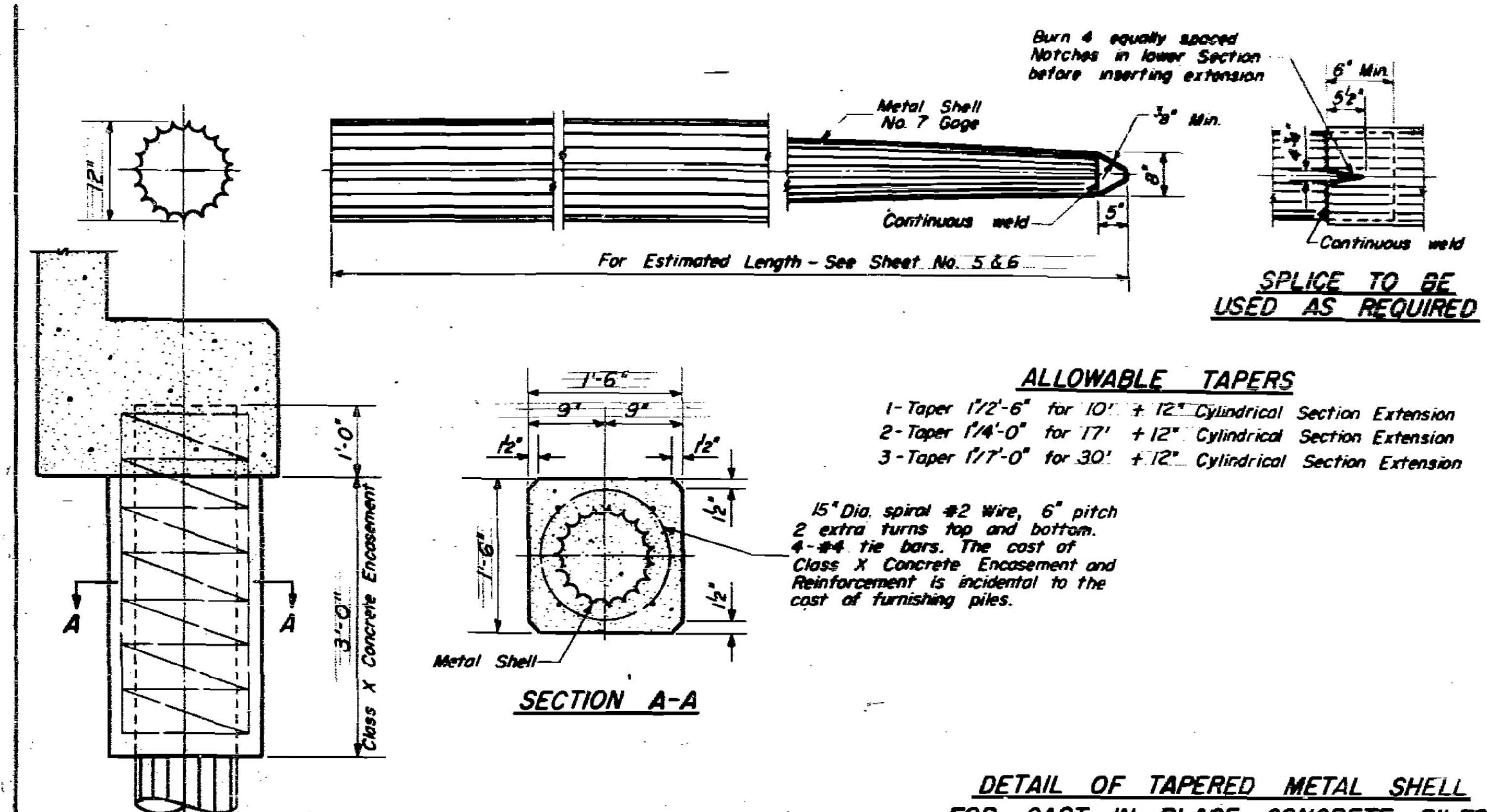
BORING DATA
F.A.I. RT 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252+46.79

FOR INFORMATION ONLY

(Sheet 13 of 14)



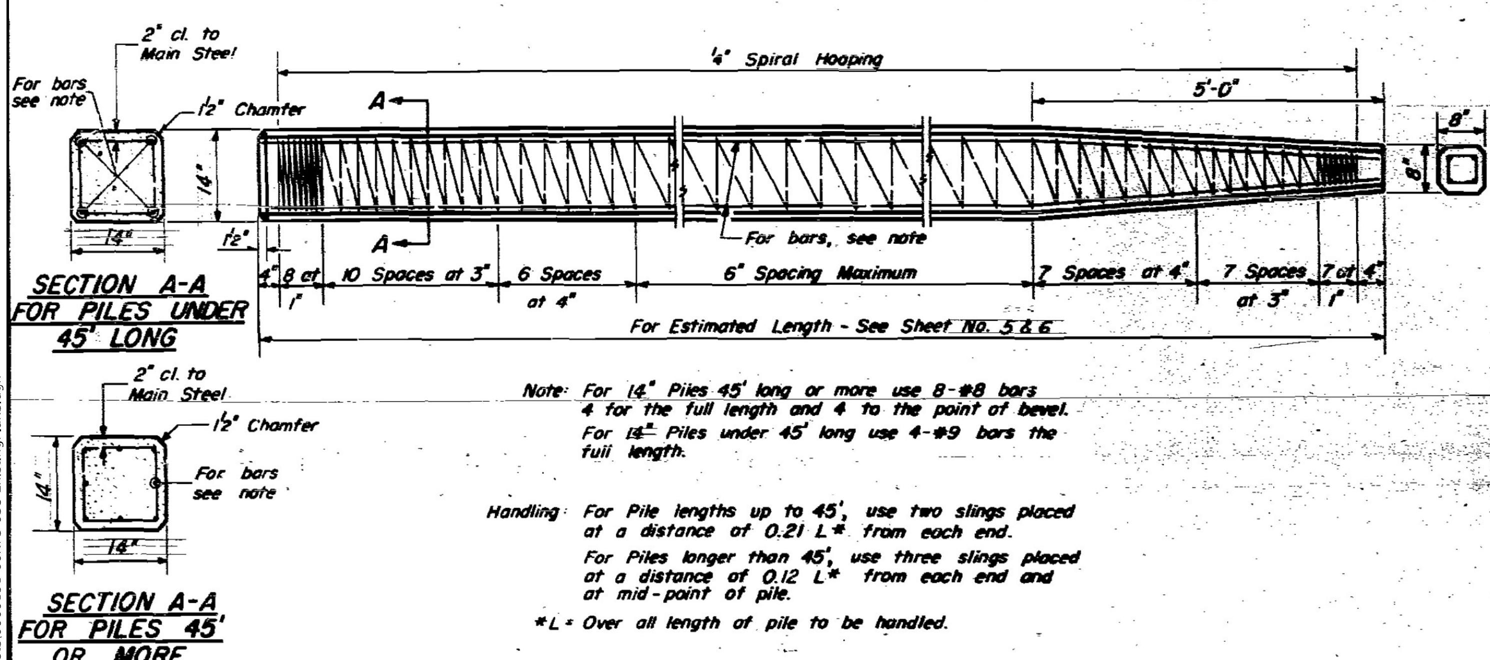
DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



ALLOWABLE TAPERS

1-Taper 1'/2'-6" for 10' + 12" Cylindrical Section Extension
2-Taper 1'/4'-0" for 17' + 12" Cylindrical Section Extension
3-Taper 1'/7'-0" for 30' + 12" Cylindrical Section Extension

DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONCRETE PILES



Note: For 14" Piles 45' long or more use 8-#8 bars 4 for the full length and 4 to the point of bevel.
For 14" Piles under 45' long use 4-#9 bars the full length.

Handling: For Pile lengths up to 45', use two slings placed at a distance of 0.21 L* from each end.
For Piles longer than 45', use three slings placed at a distance of 0.12 L* from each end and at mid-point of pile.

*L = Over all length of pile to be handled.

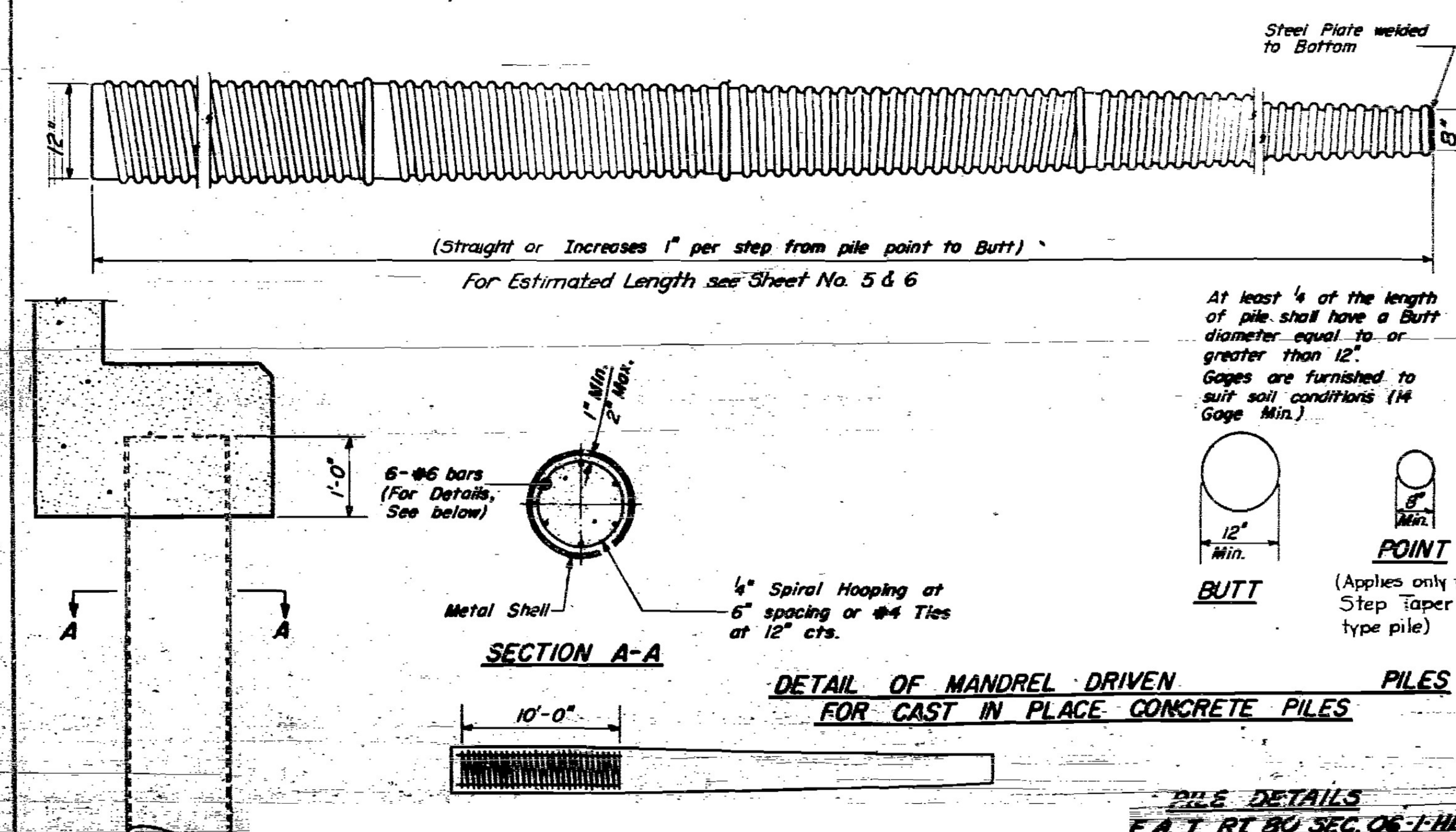
DESIGNED	O. J. McCloy
CHECKED	William A. Sumff
DRAWN	W. A. Sausaman J.P.
CHECKED	James M. Pence

Nov. 21 1960
EXAMINED M. E. Baumann
PASSED
APPROVED

FOR INFORMATION ONLY

X-1 Re-drawn 9-24-59 Rev. 9-23-60

DETAIL OF PRECAST CONCRETE PILES



At least 1/4 of the length of pile shall have a Butt diameter equal to or greater than 12". Gages are furnished to suit soil conditions (14 Gage Min.)

DETAIL OF MANDREL DRIVEN PILES FOR CAST IN PLACE CONCRETE PILES

PILE DETAILS
F.A.I. RT 80 SEC. 06-1-HB-2
BUREAU COUNTY
STA. 252 + 46.79

(Sheet 14 of 14)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 006-0191
		CHECKED - MTH	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 3/7/2022	CHECKED - MTH	REVISED -		SHEET 14 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB)BR	BUREAU	202	154
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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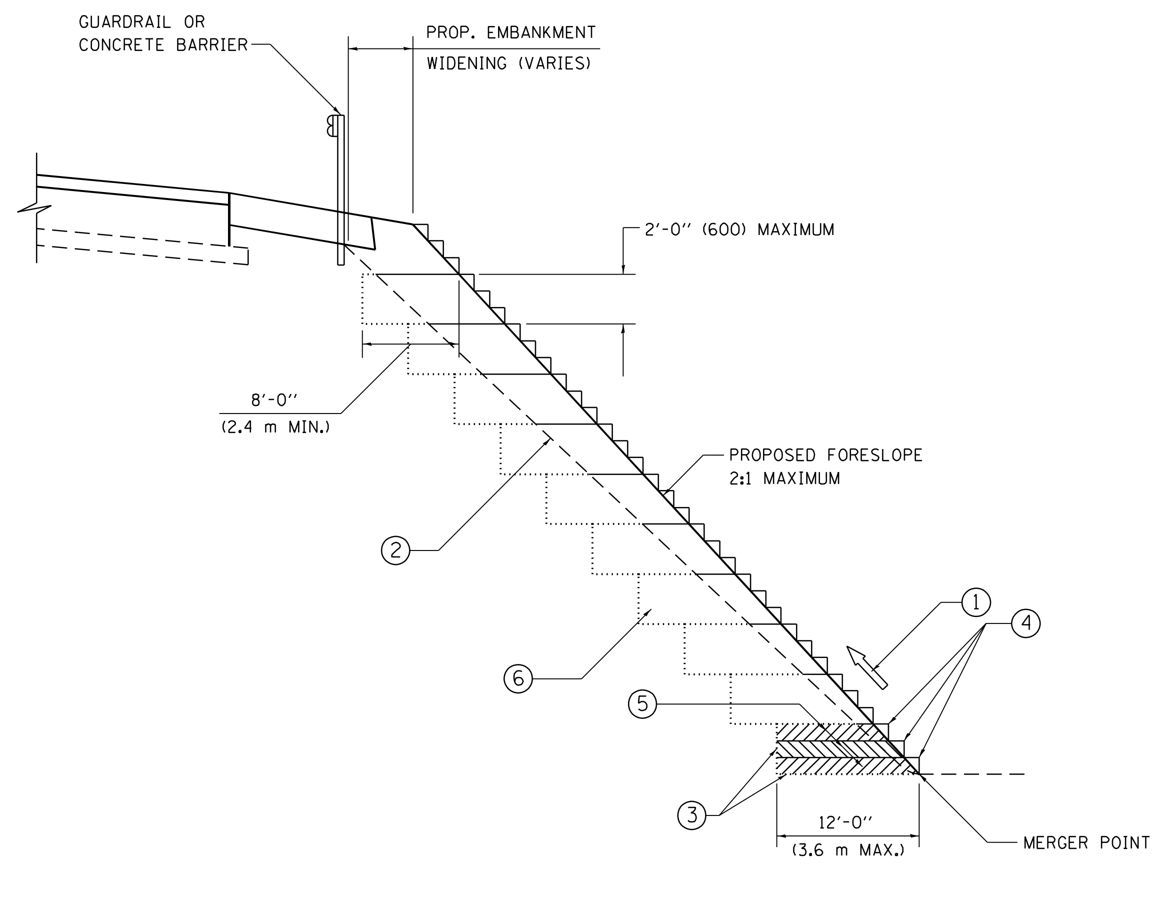
3/7/2022 3:11:06 PM

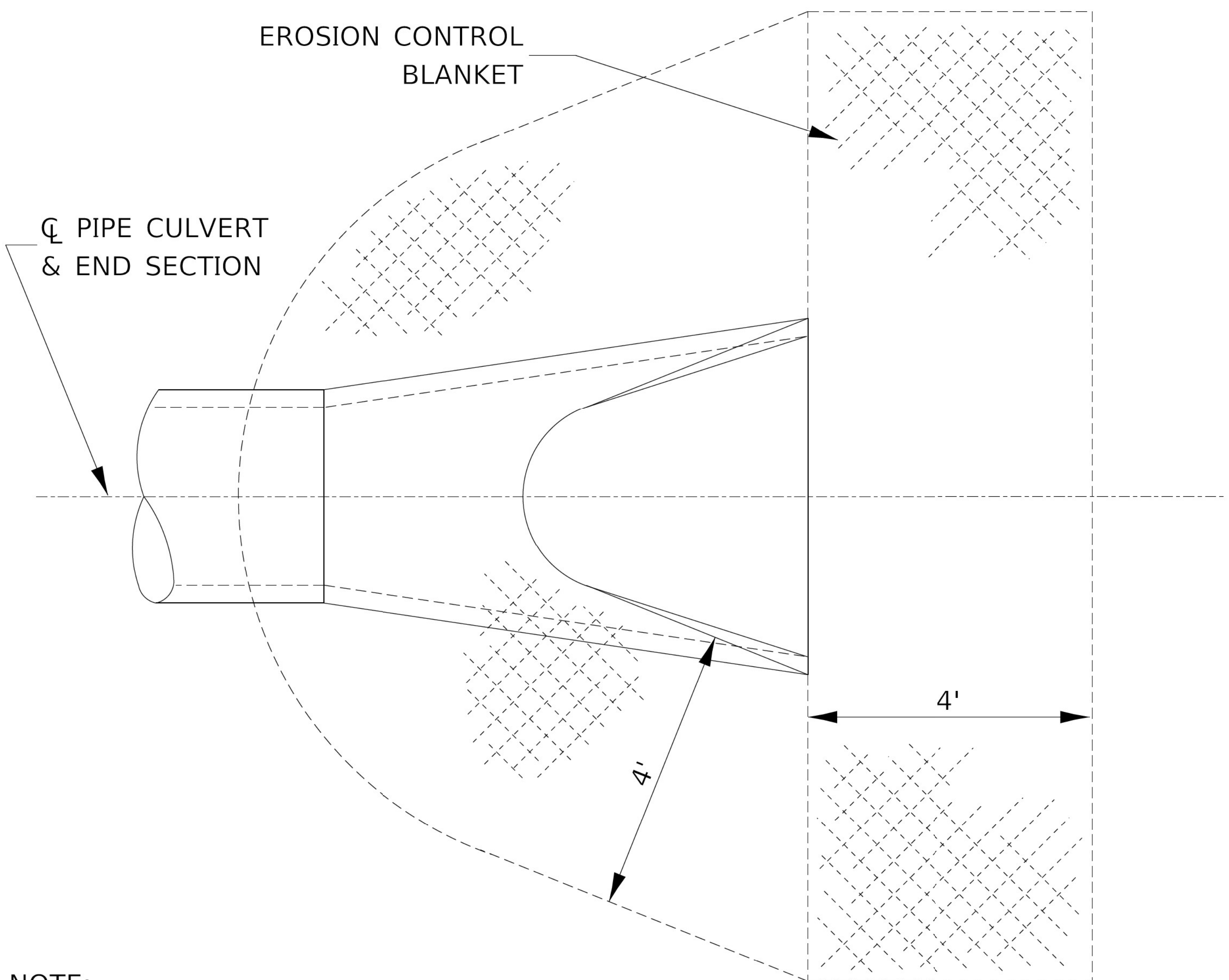


TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
6. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION. THIS WORK WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 1:4 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



NOTE:
TO BE USED AT ALL END SECTIONS

DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION

PROJECT NO.: $PROJECTNO$
PROJ. CONTACT: $HRGPM$
FILE NAME: D366K73-D3-Detail.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

USER NAME = amonocchio	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/14/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

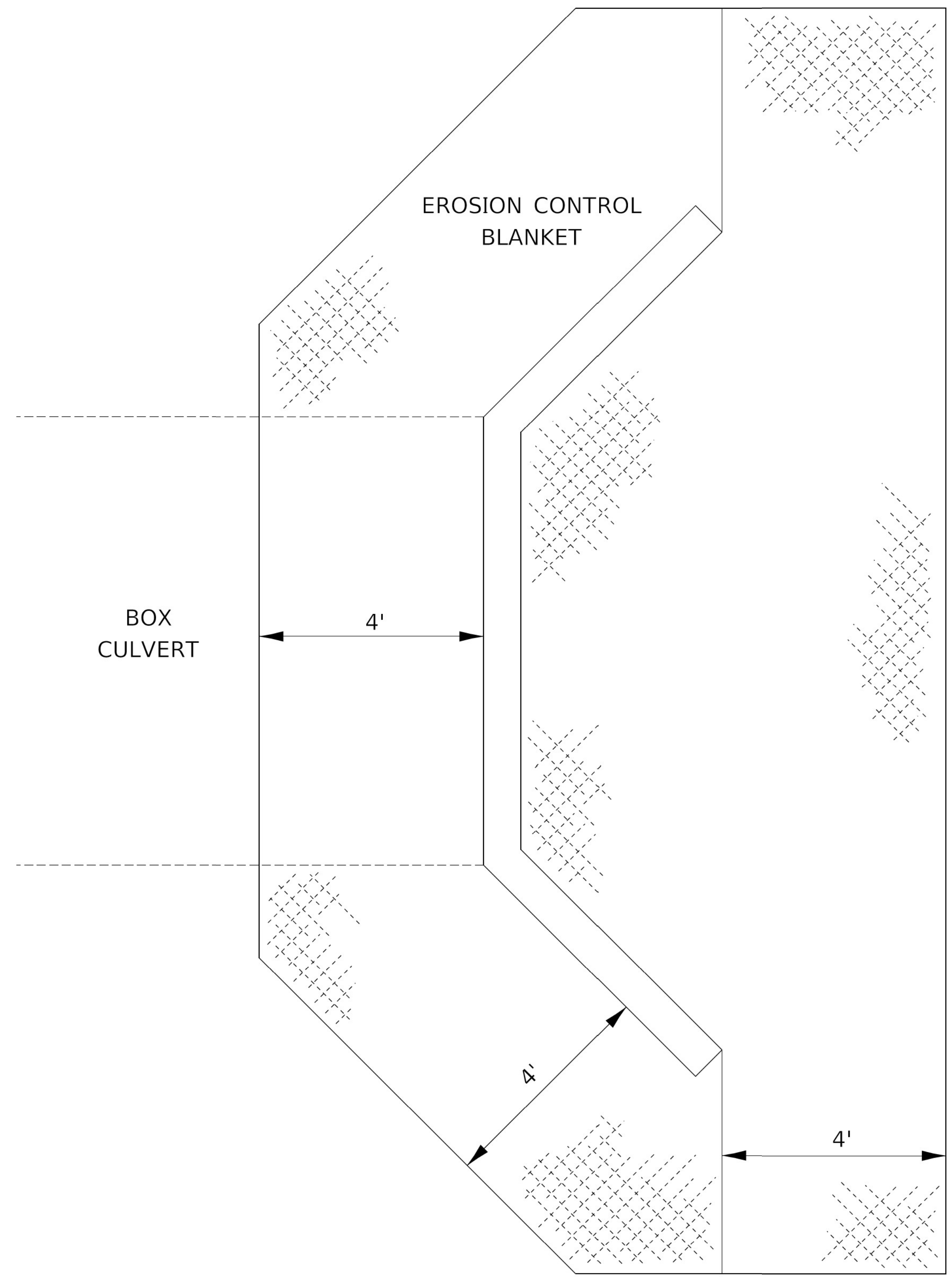
DETAILS

SCALE: NTS | SHEET 2 OF 11 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	156

CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT



EROSION CONTROL BLANKET
AT BOX CULVERT END SECTIONS

PROJECT NO.: $PROJECTNO$
PROJ. CONTACT: $HRCGPM$
FILE NAME: D366K73-D3-Detail.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

USER NAME = amonocchio	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/14/2022	DATE -	REVISED -	

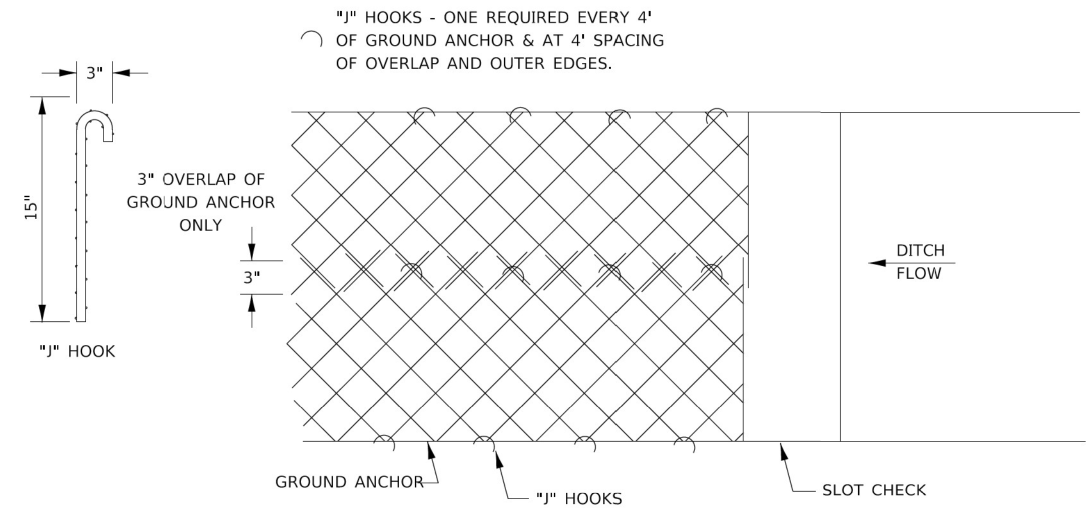
DETAILS

SCALE: NTS | SHEET 3 OF 11 SHEETS

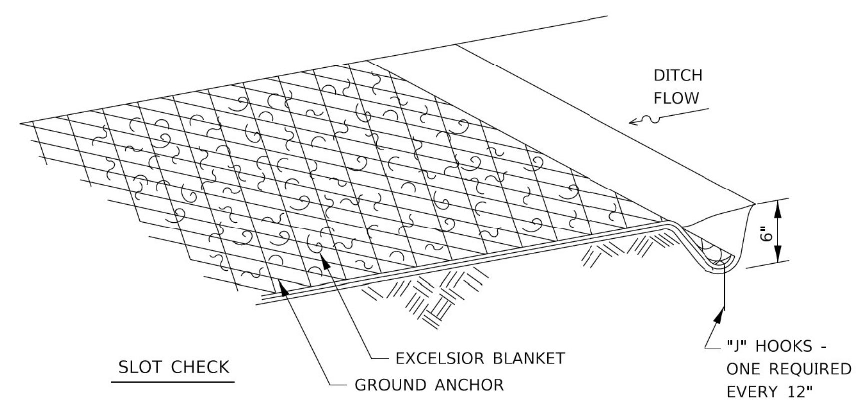
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	157

CONTRACT NO. 66K73

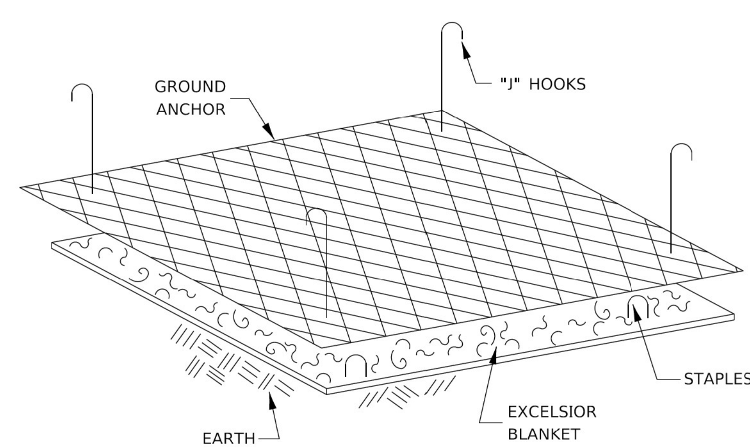
ILLINOIS | FED. AID PROJECT



TOP VIEW
OVERLAPPING OF GROUND ANCHOR



SLOT CHECK



NOTES:

1. EXCELSIOR BLANKET IS STAPLED INTO GROUND.
2. GROUND ANCHOR GOES OVER EXCELSIOR BLANKET AND IS FASTENED WITH "J" HOOKS EVERY 4 FEET.
3. PAY WIDTH WILL BE MEASURED TO OUT-TO-OUT OF GROUND ANCHOR WITH NO CONSIDERATION FOR OVERLAPS.

EXCELSIOR BLANKET (SPECIAL) DETAILS

USER NAME = amonocchio	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/14/2022	DATE -	REVISED -	

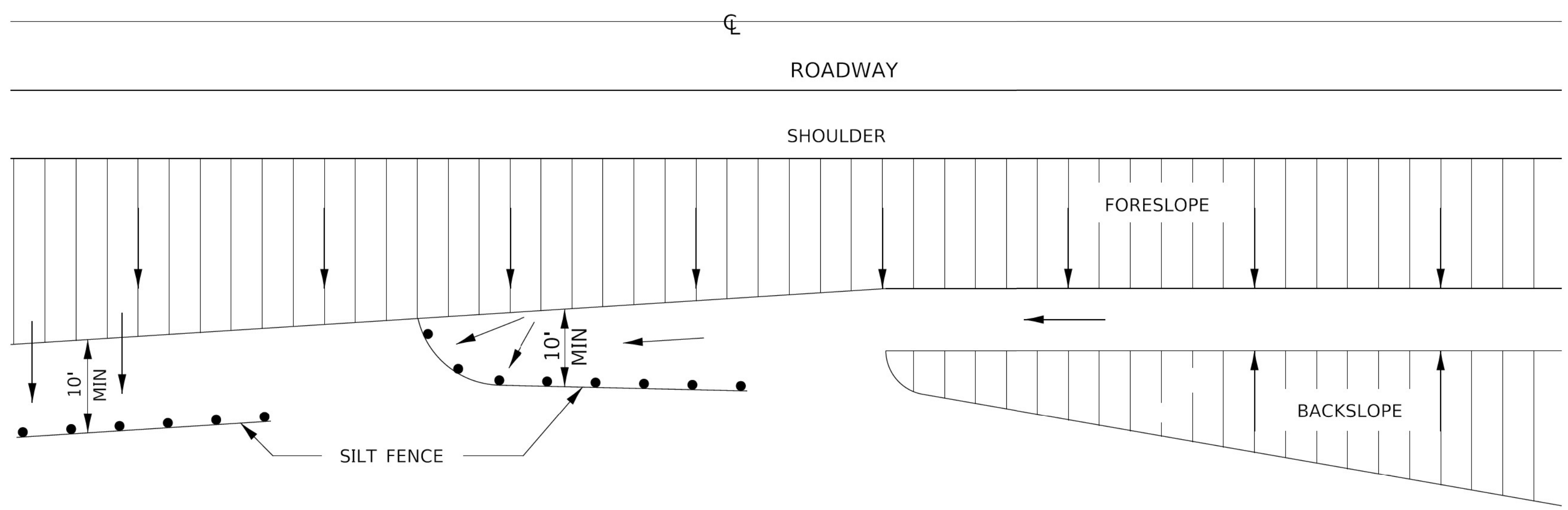
DETAILS

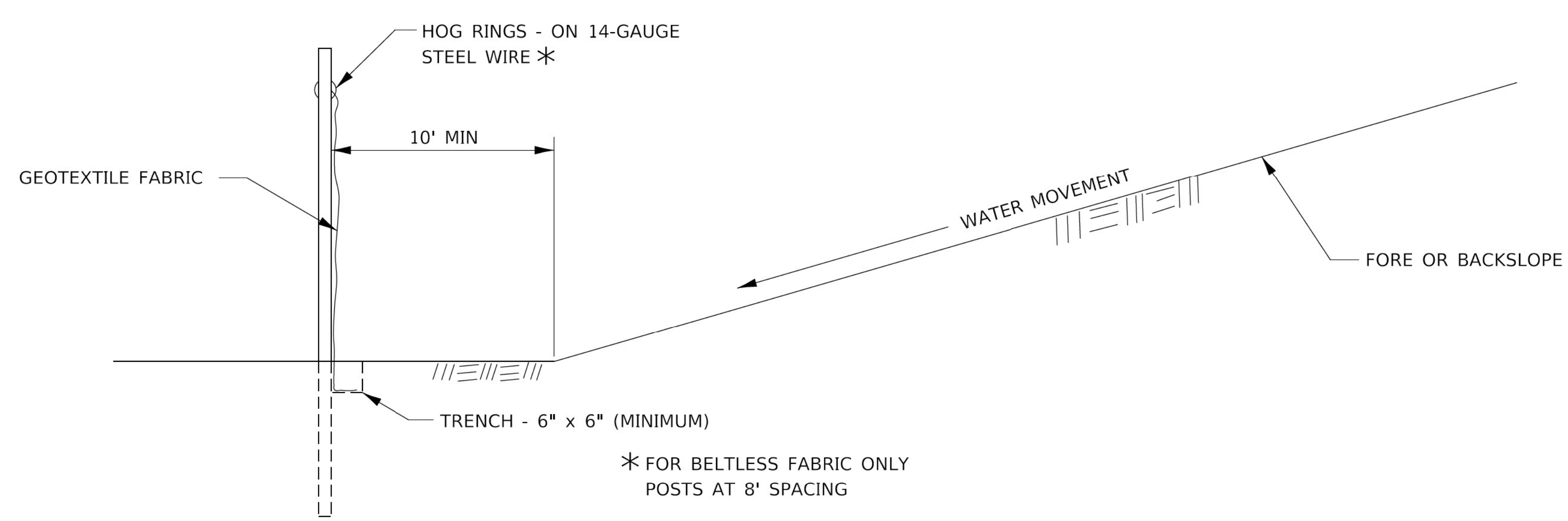
SCALE: NTS | SHEET 4 OF 11 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	158

CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT





* FOR BELTLESS FABRIC ONLY
POSTS AT 8' SPACING

DETAILS OF SILT FENCE

EROSION CONTROL DETAILS FOR SILT FENCE

PROJECT NO.: $PROJECTNO$
PROJ. CONTACT: $HRGPM$
FILE NAME: D366K73-D3-Detail.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

USER NAME = amonocchio	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/14/2022	DATE -	REVISED -	

DETAILS

SCALE: NTS | SHEET 5 OF 11 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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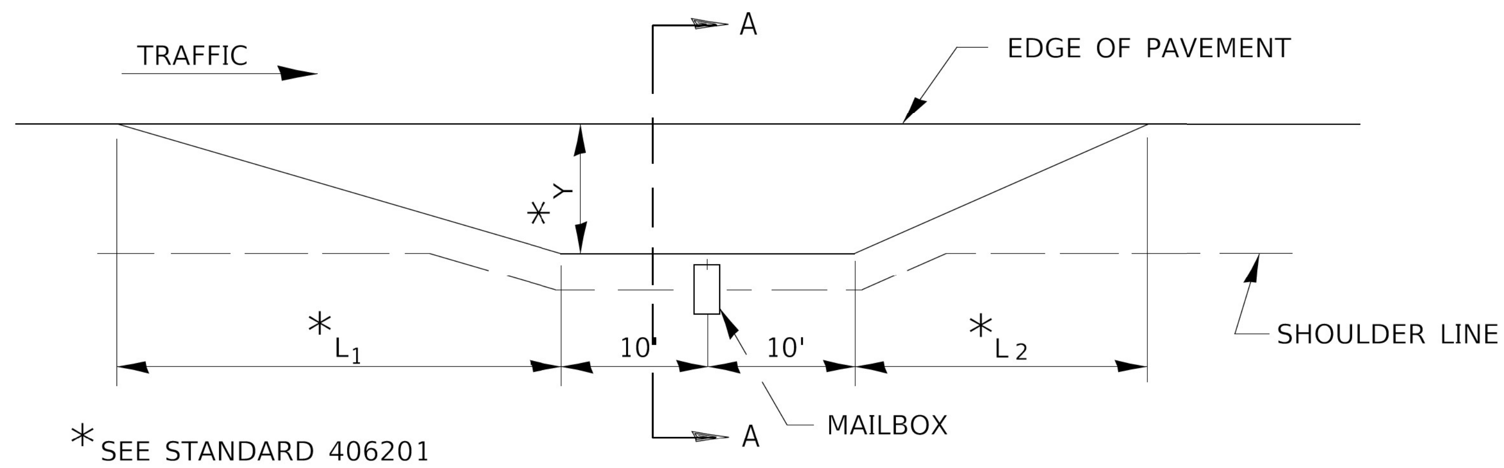
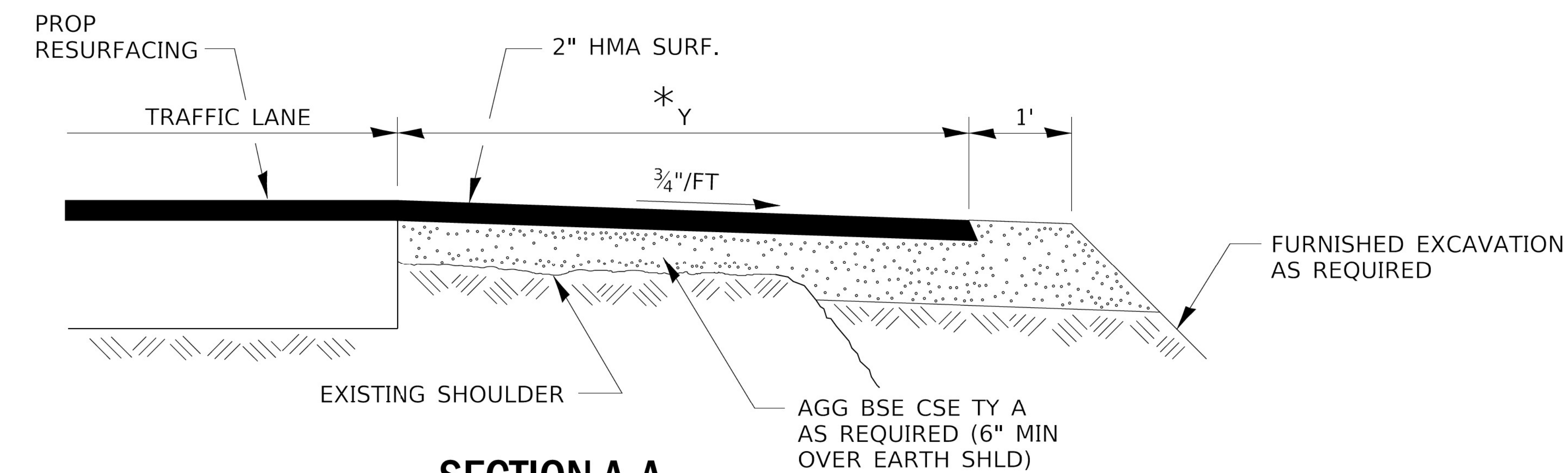
		CONTRACT NO. 66K73		
	ILLINOIS FED. AID PROJECT			





SECTION A-A

RURAL MAILBOX TURNOUT DETAILS

DESIGNER NOTES

1. INCLUDE STD. 406201
2. REVIEW BDE MANUAL 58-5

PROJECT NO.: $PROJECTNO$
PROJ. CONTACT: $HRCBMPCPM$
FILE NAME: D366K73-D3-Detail.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

USER NAME = amonocchio	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/14/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

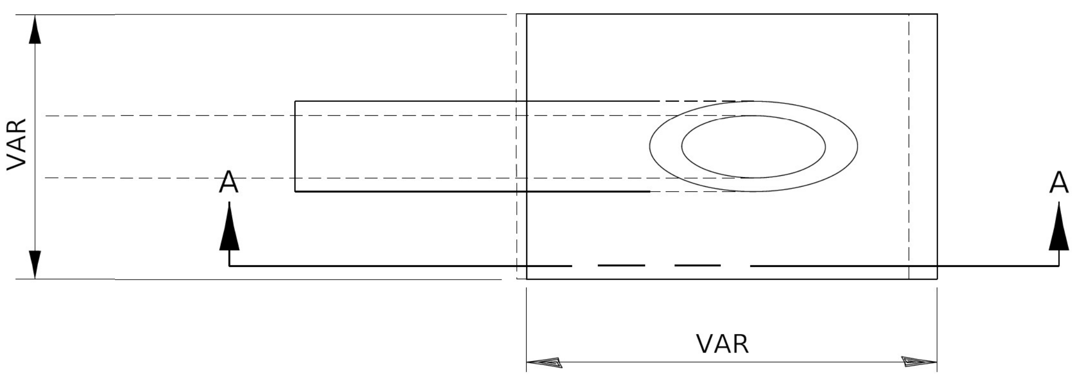
DETAILS

SCALE: NTS | SHEET 6 OF 11 SHEETS

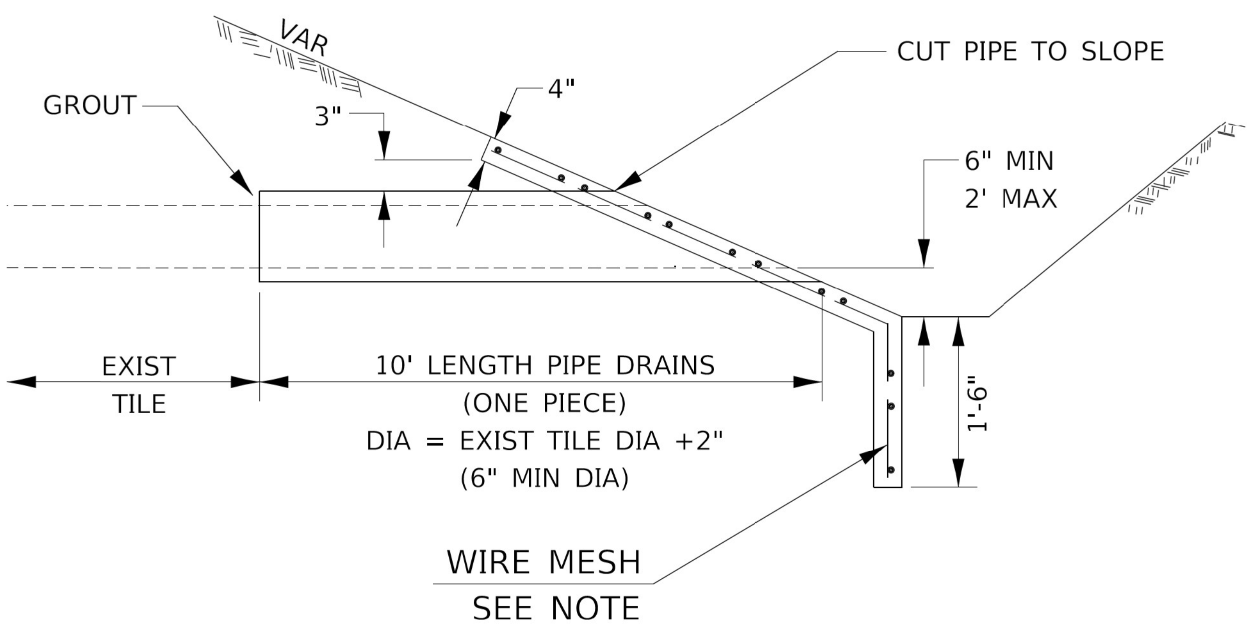
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	160

CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT



PLAN

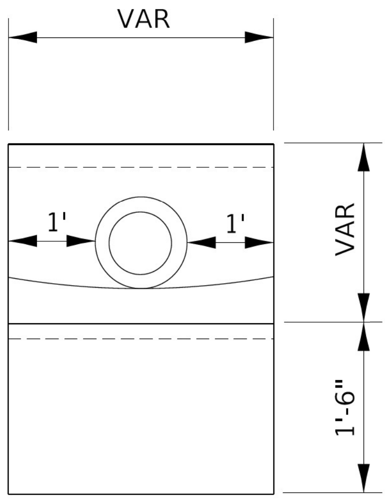


SECTION A-A

NOTES

1. ANY FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.

2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT



END VIEW

PIPE DRAINS & CONCRETE HEADWALLS

USER NAME = amonocchio	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/14/2022	DATE -	REVISED -	

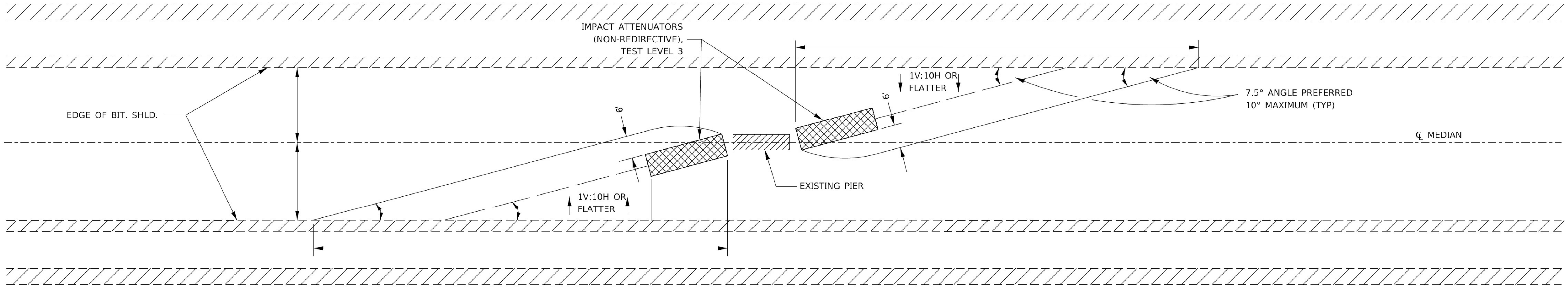
DETAILS

SCALE: NTS | SHEET 7 OF 11 SHEETS

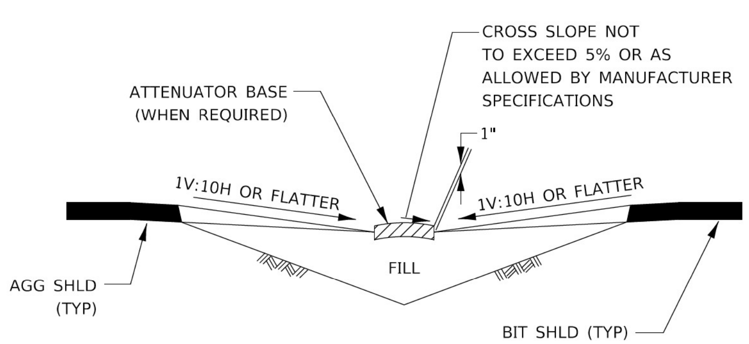
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	161
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

1. THE 10:1 SLOPE CONTROLS NOSE OF ATTENUATOR BASE ELEVATION.
2. ATTENUATOR BASE GRADE PARALLELS EDGE OF PAVEMENT GRADE.
3. SLOPE ADJACENT TO ATTENUATOR BASE SHALL BE 10:1 OR FLATTER.



IMPACT ATTENUATOR LAYOUT AND GRADING PLAN

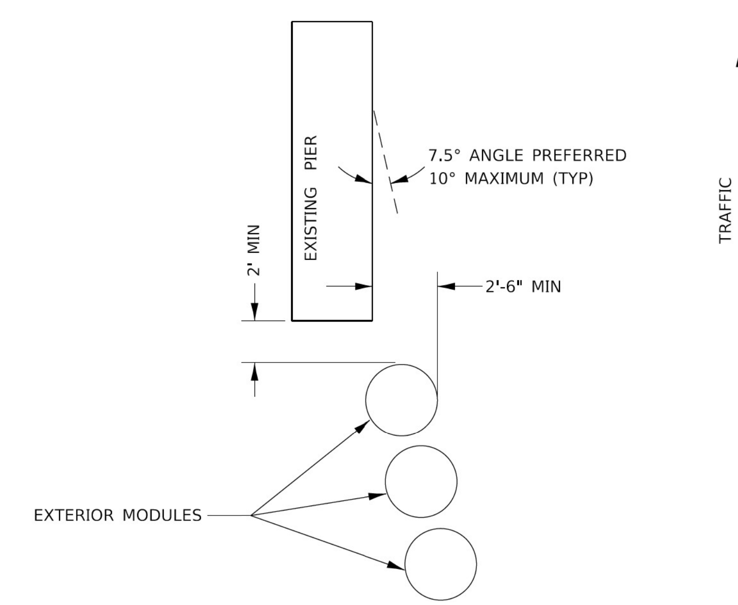


SECTION A - A

NOTE:

ATTENUATOR BASE SHALL BE PER MANUFACTURER SPECIFICATIONS EXCEPT SAND MODULE SYSTEMS SHALL HAVE THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. ATTENUATOR BASE SHALL PROVIDE A 1' BUFFER ALONG THE SIDES AND FRONT OF THE ARRAY.
2. SAND MODULE SYSTEMS SHALL BE PLACED ON A HMA OR CONCRETE BASE.



TYPICAL EXTERIOR MODULE LAYOUT

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PROJ. CONTACT: HRC
FILE NAME: D66K73-03-Detail.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

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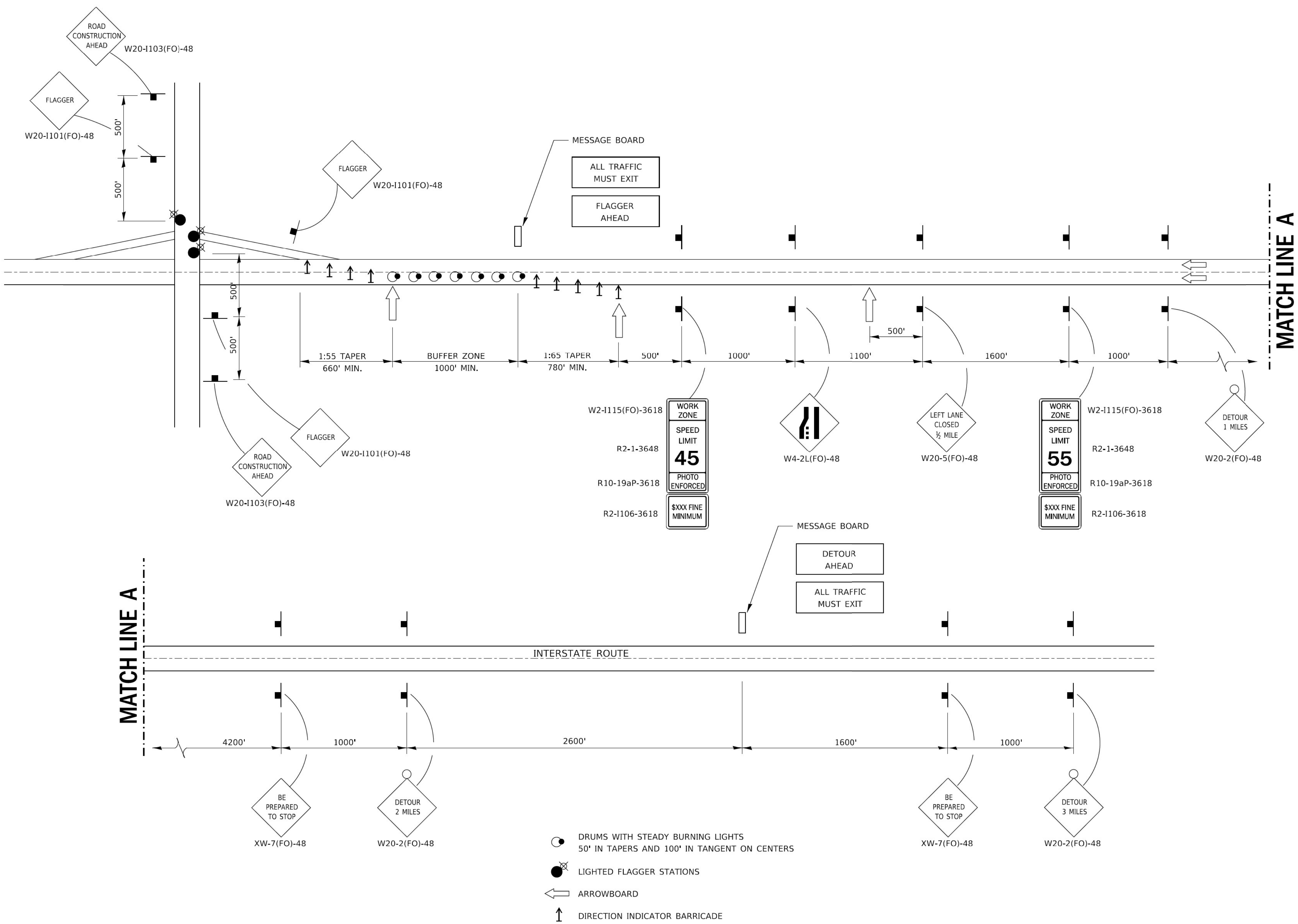
	DRAWN -	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 2/14/2022	DATE -	REVISED -		SCALE: NTS SHEET 8 OF 11 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	162
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



PROJECT NO.: $PROJECTNO$
PROJ. CONTACT: $HRCONTACT$
FILE NAME: D66K73-D3-Detail.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

USER NAME = amonocchio	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/14/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

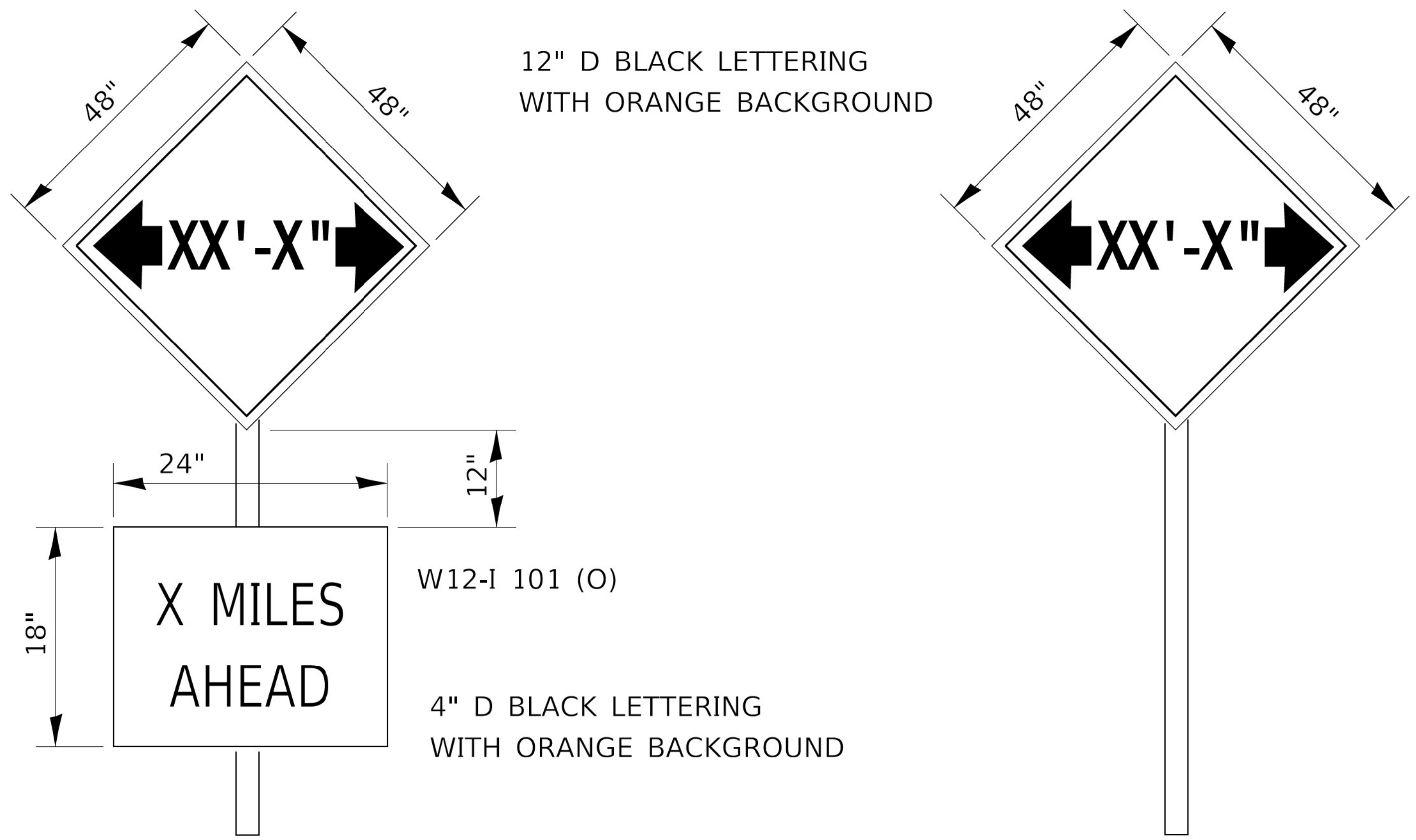
DETAILS

SCALE: NTS | SHEET 9 OF 11 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	163

CONTRACT NO. 66K73

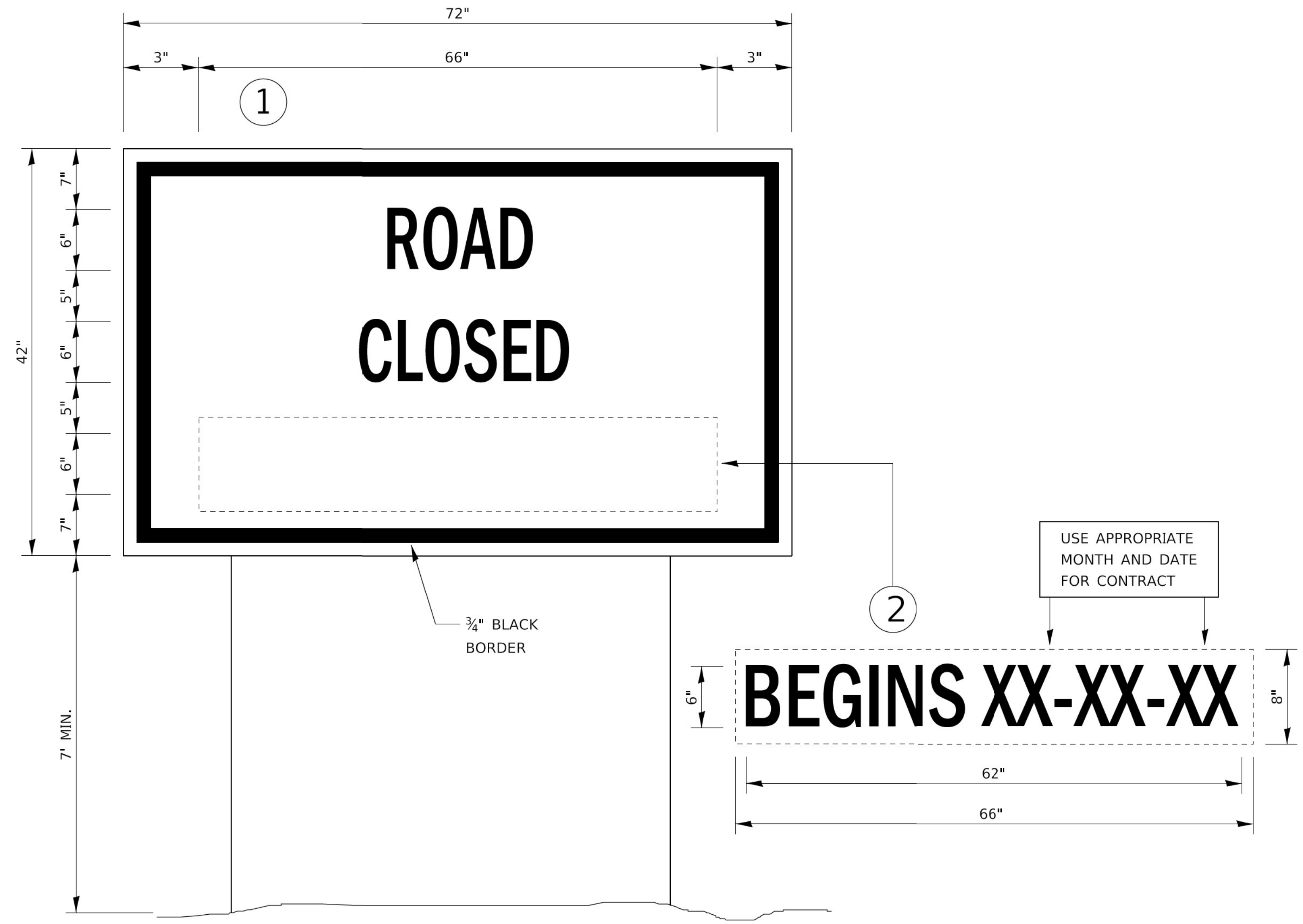
ILLINOIS | FED. AID PROJECT



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

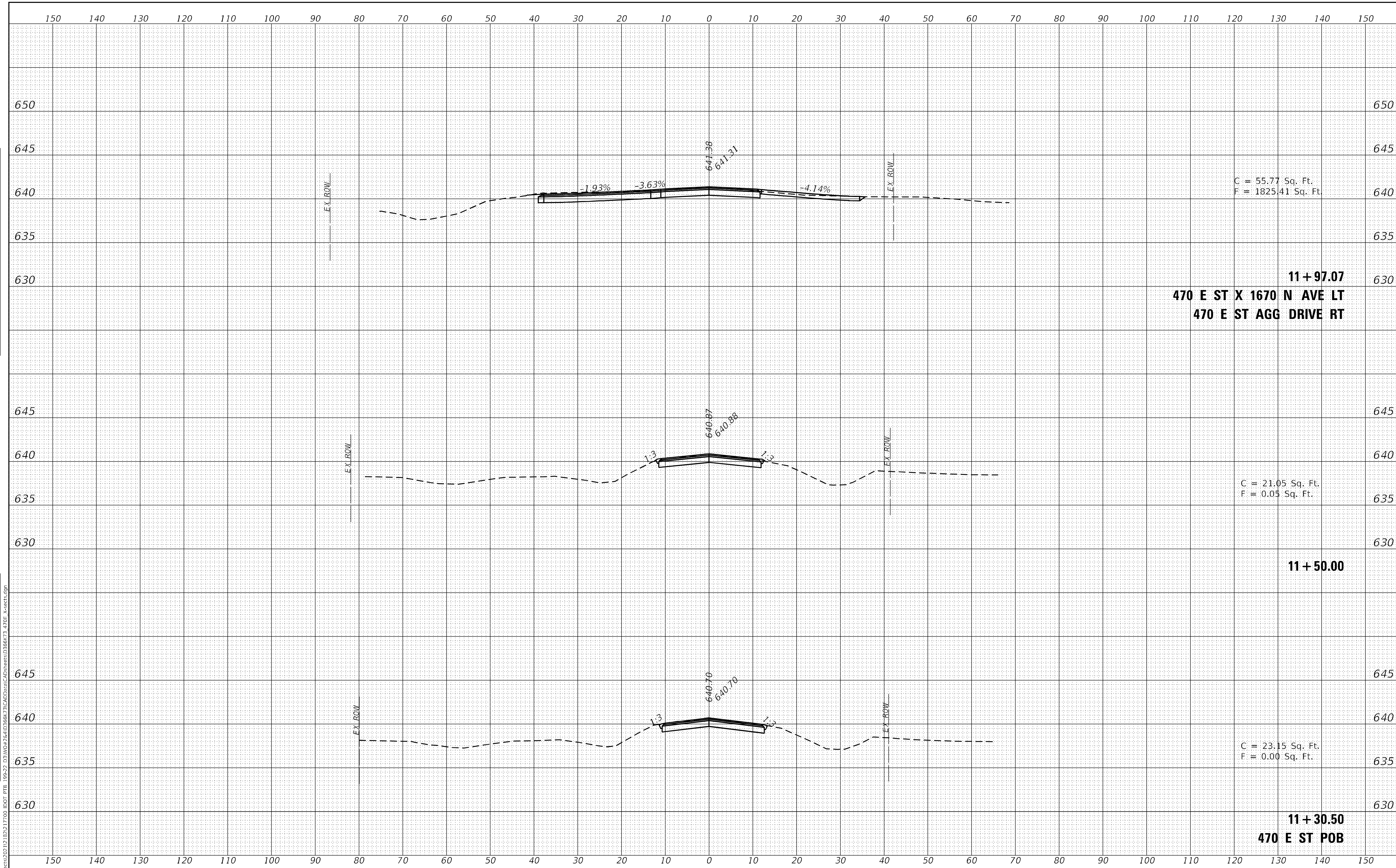
WIDTH RESTRICTION SIGNING DETAILS



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.



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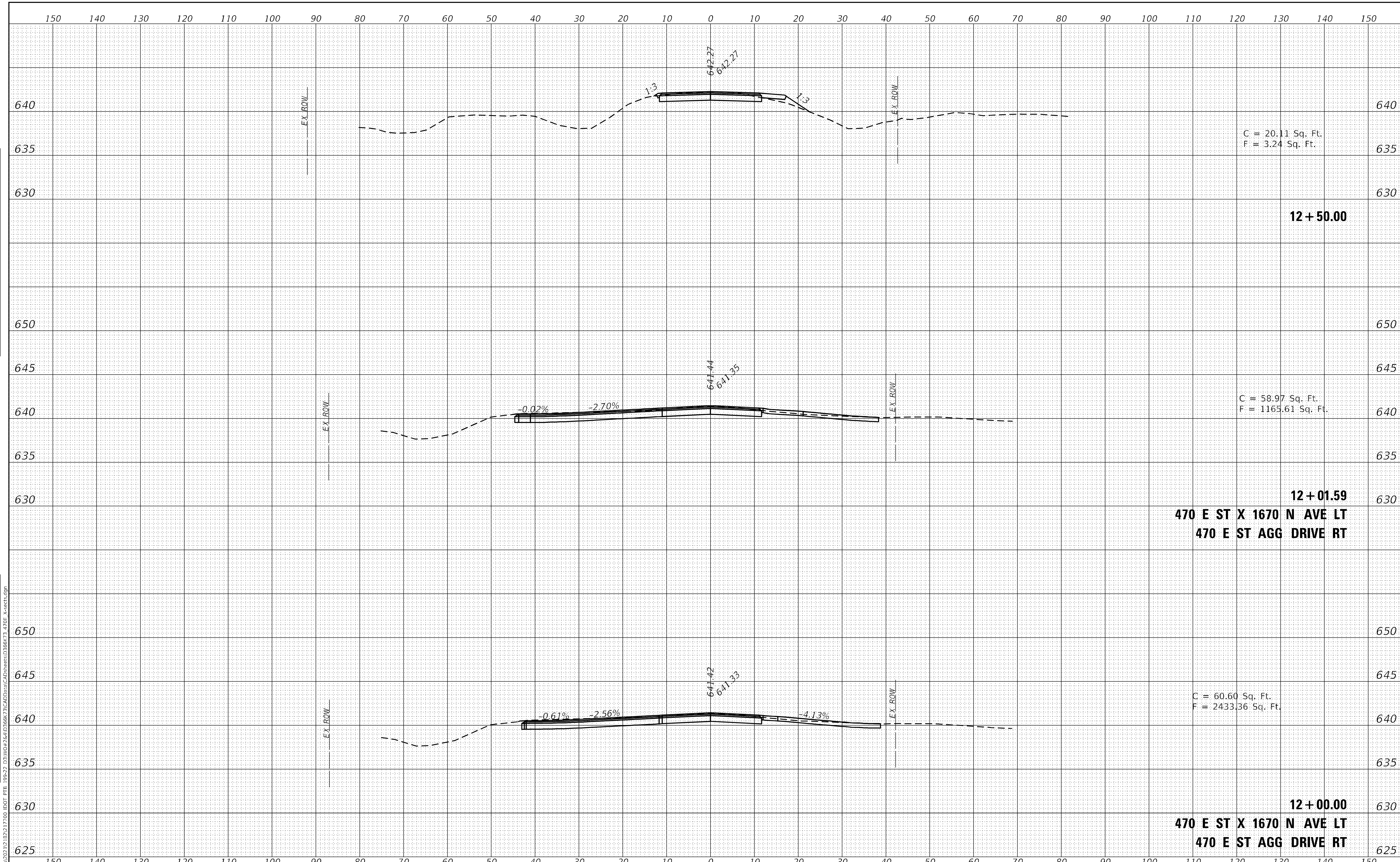
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 1 OF 15 SHEETS | STA. 11+30.50 (POB) TO STA. 11+97.07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	166
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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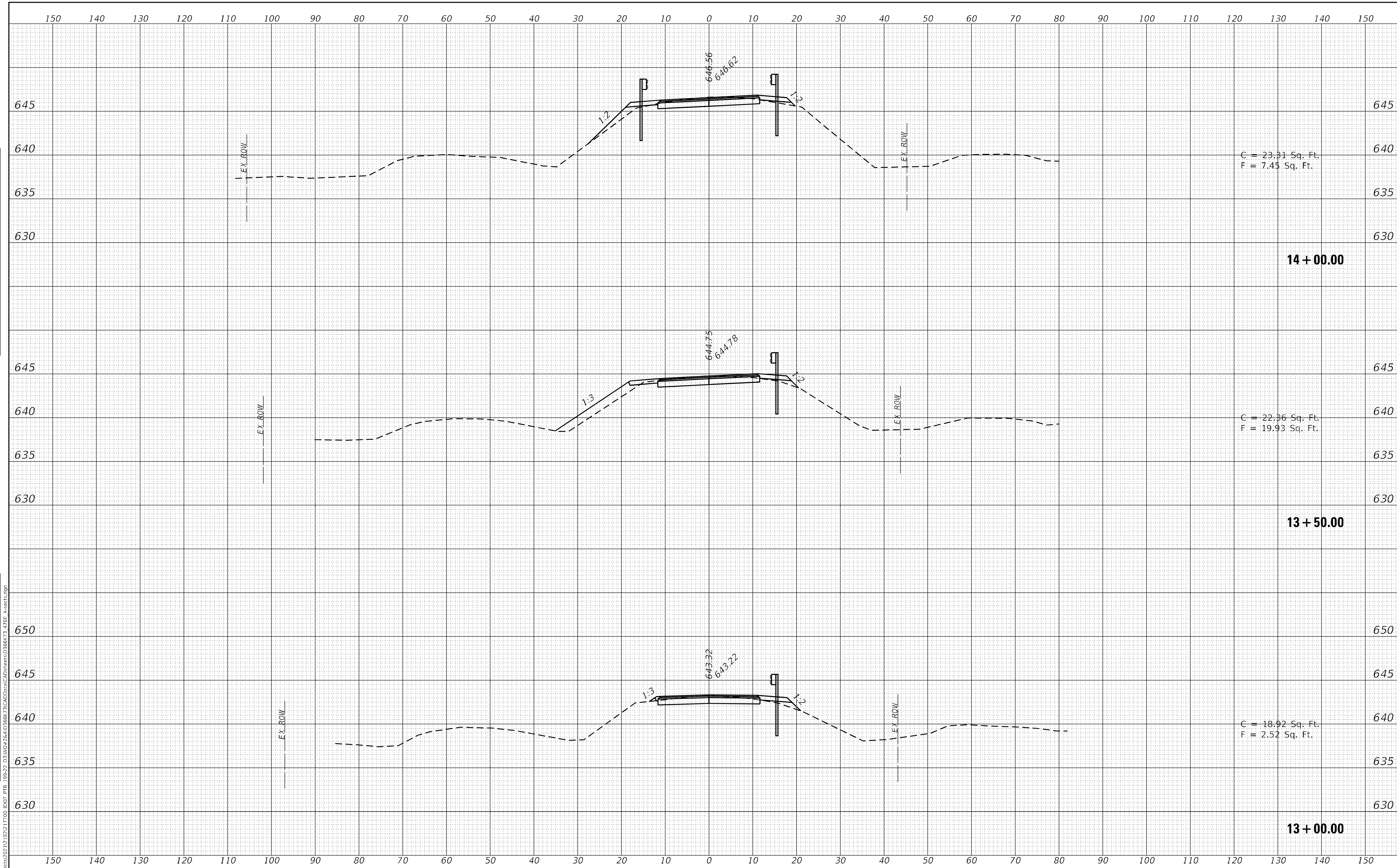
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -			
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -		SCALE: 1" = 10'	SHEET 2 OF 15 SHEETS STA. 12+00.00 TO STA. 12+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	167

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT



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

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

MODEL: Default
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DLZ

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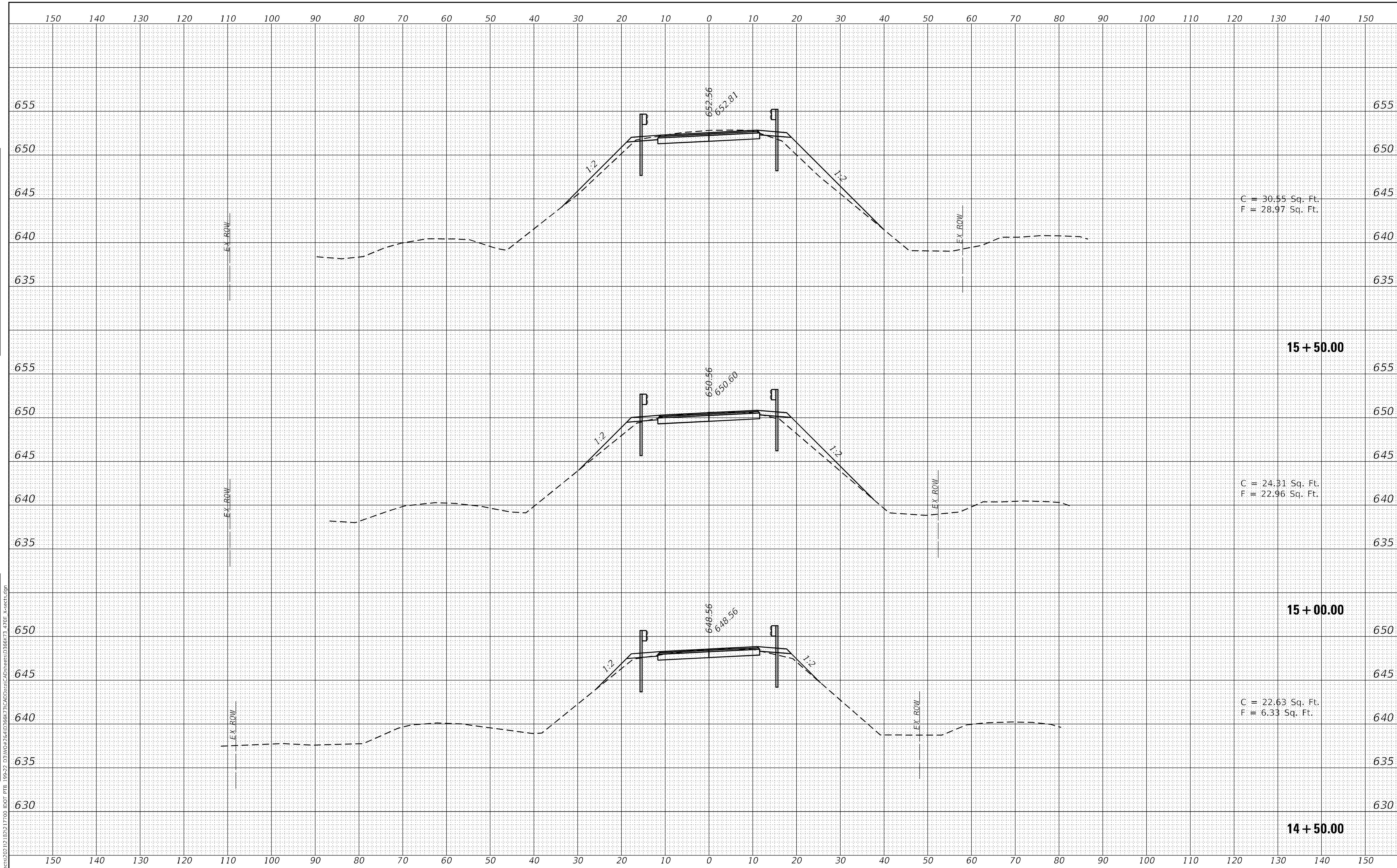
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 3 OF 15 SHEETS | STA. 13+00.00 TO STA. 14+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	168
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

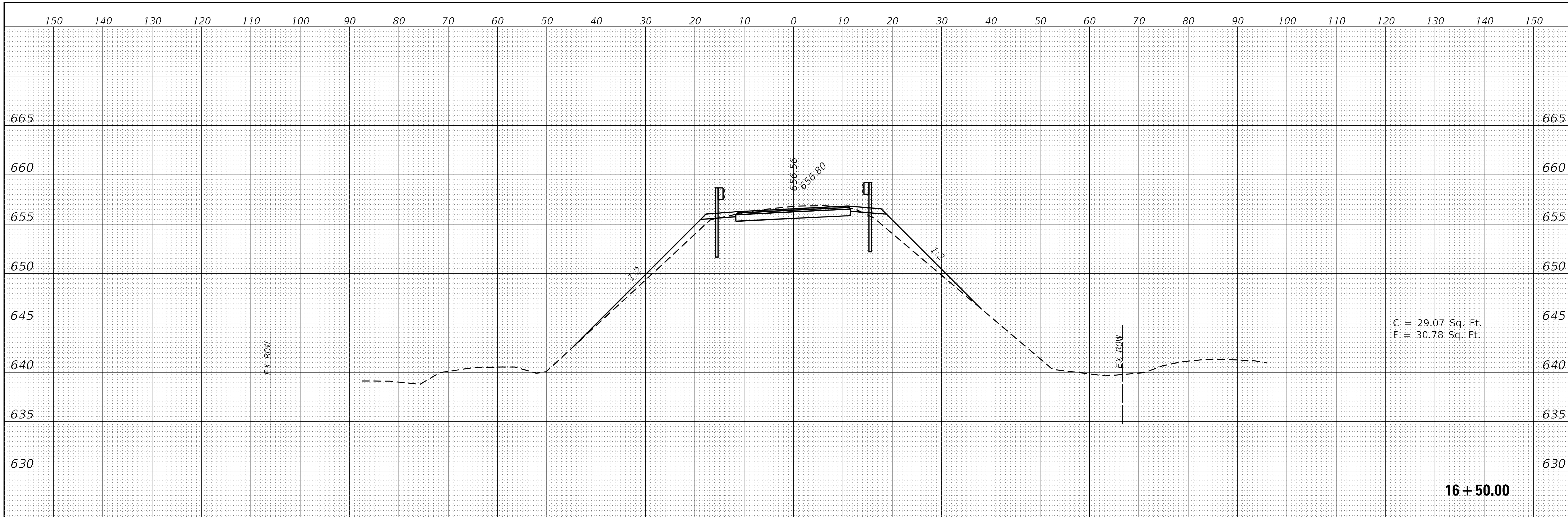
470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 4 OF 15 SHEETS | STA. 14+50.00 TO STA. 15+50.00

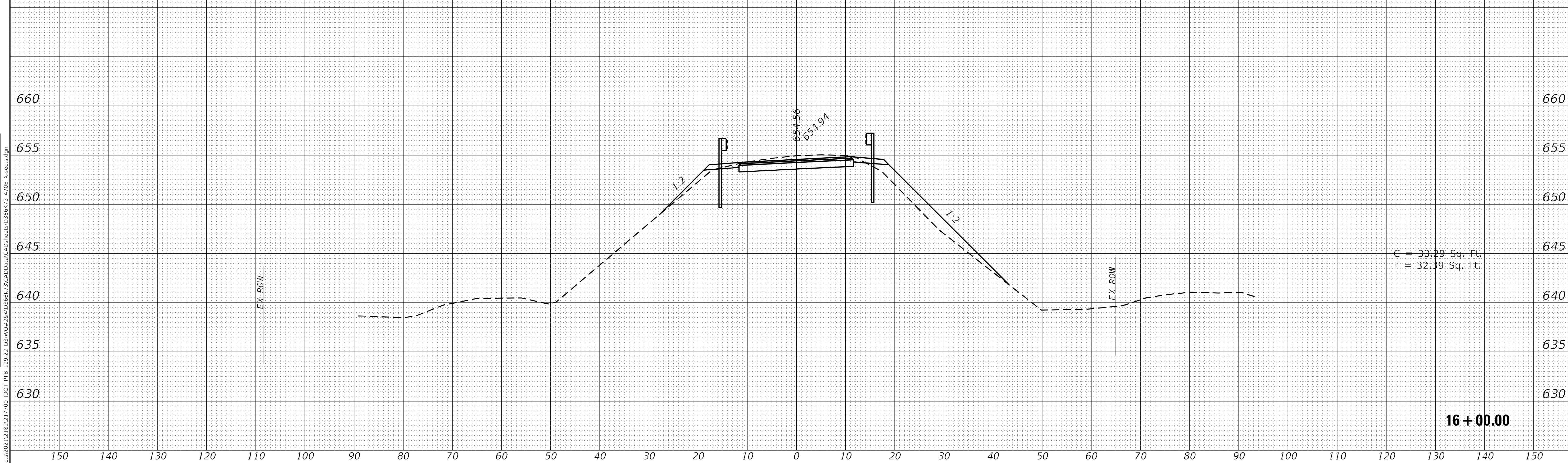
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	169

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT



16 + 50.00



16 + 00.00

DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -
		DRAWN - AMM	REVISED -
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	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 5 OF 15 SHEETS | STA. 16+00.00 TO STA. 16+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	170
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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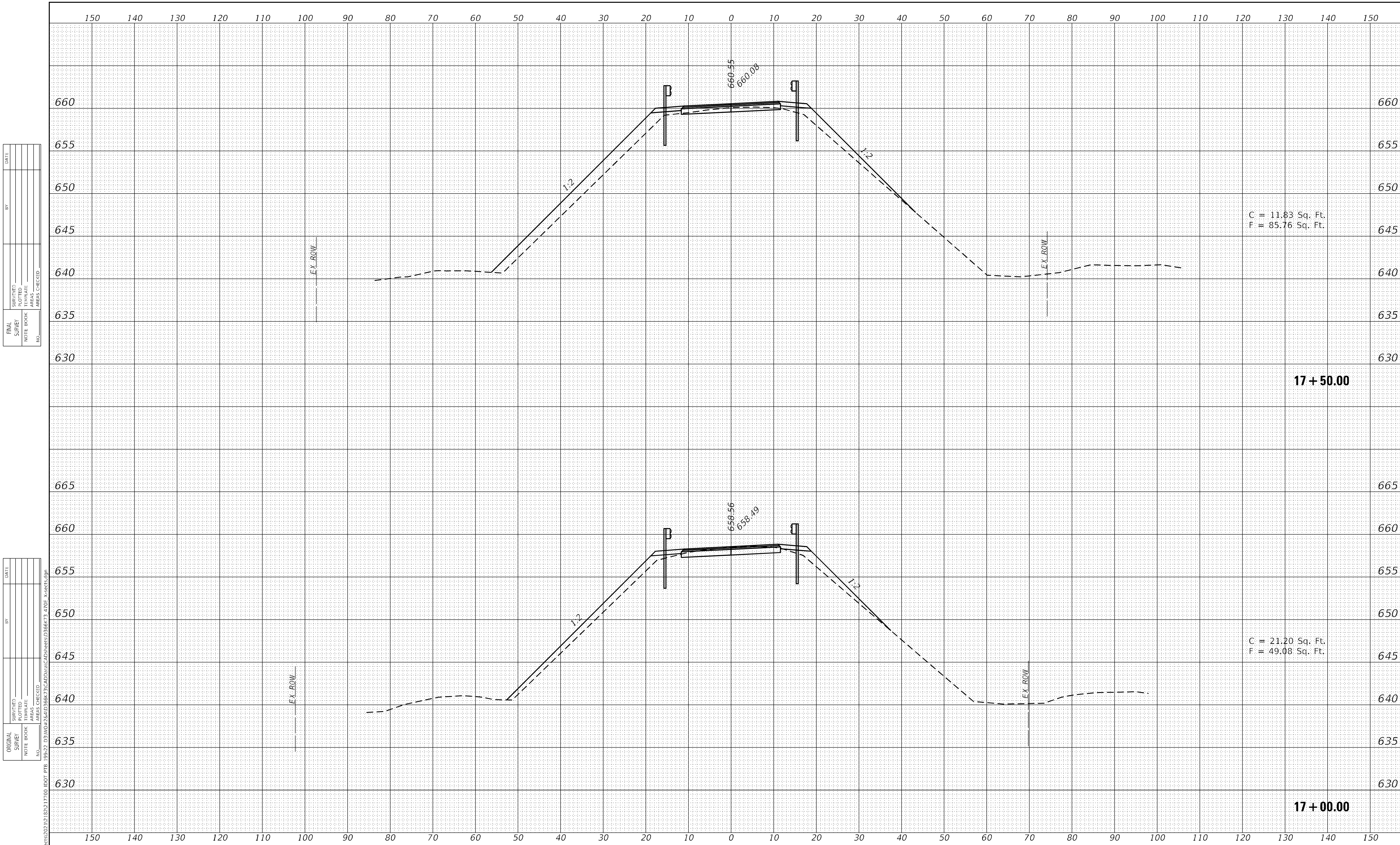

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	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

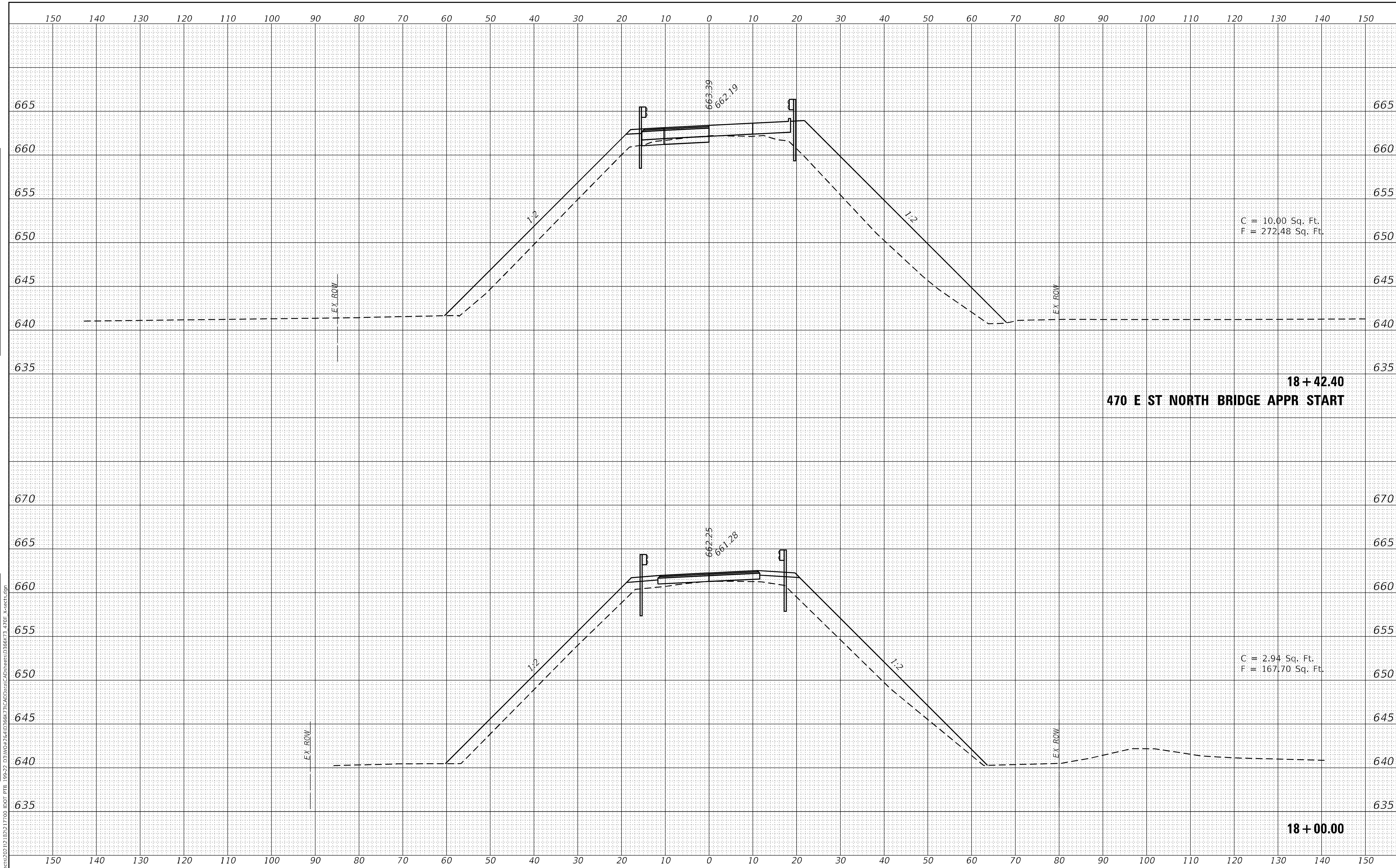
470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 6 OF 15 SHEETS | STA. 17+00.00 TO STA. 17+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	171

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT



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

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

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	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

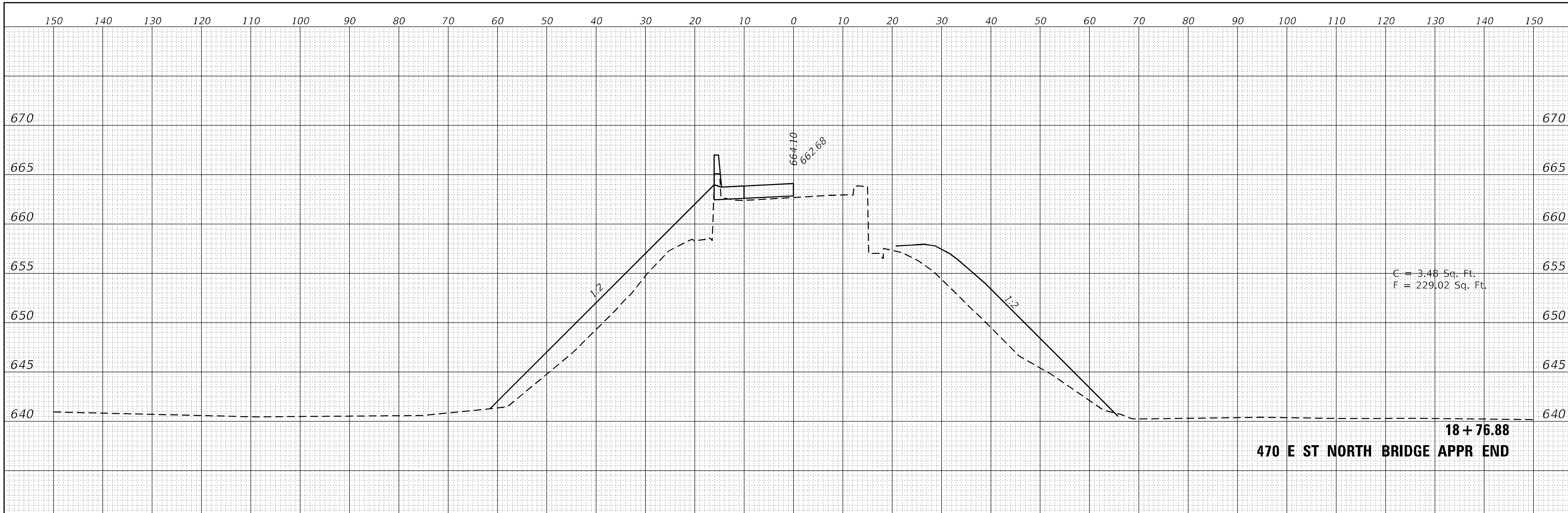
470 E ST CROSS SECTIONS

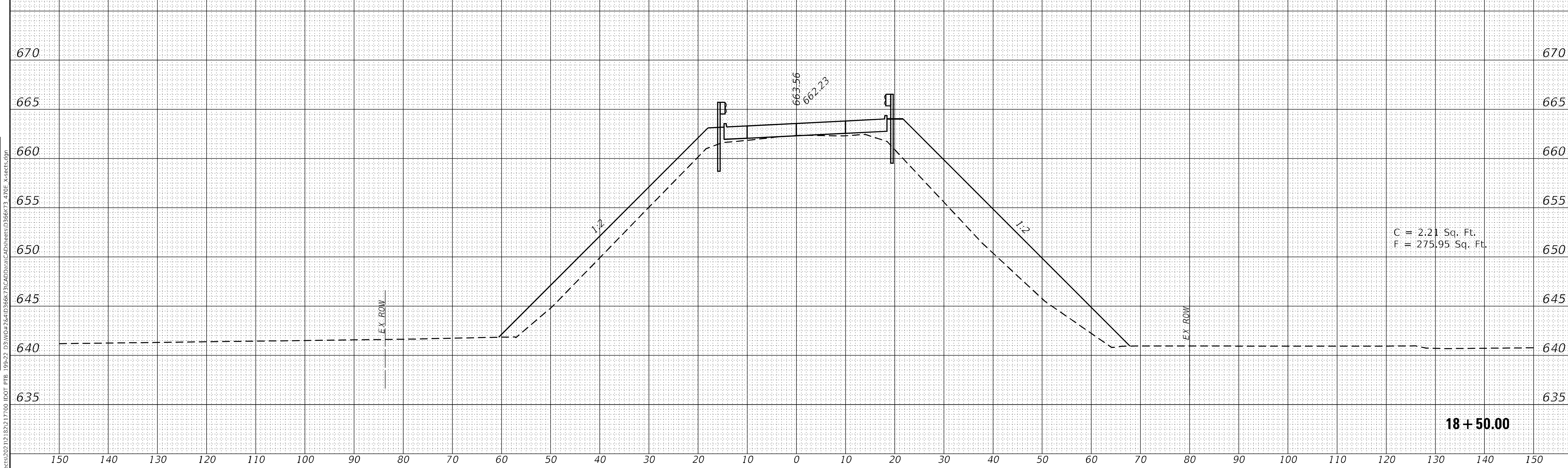
SCALE: 1" = 10' | SHEET 7 OF 15 SHEETS | STA. 18+00.00 TO STA. 18+42.40

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	172

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT





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

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

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DLZ

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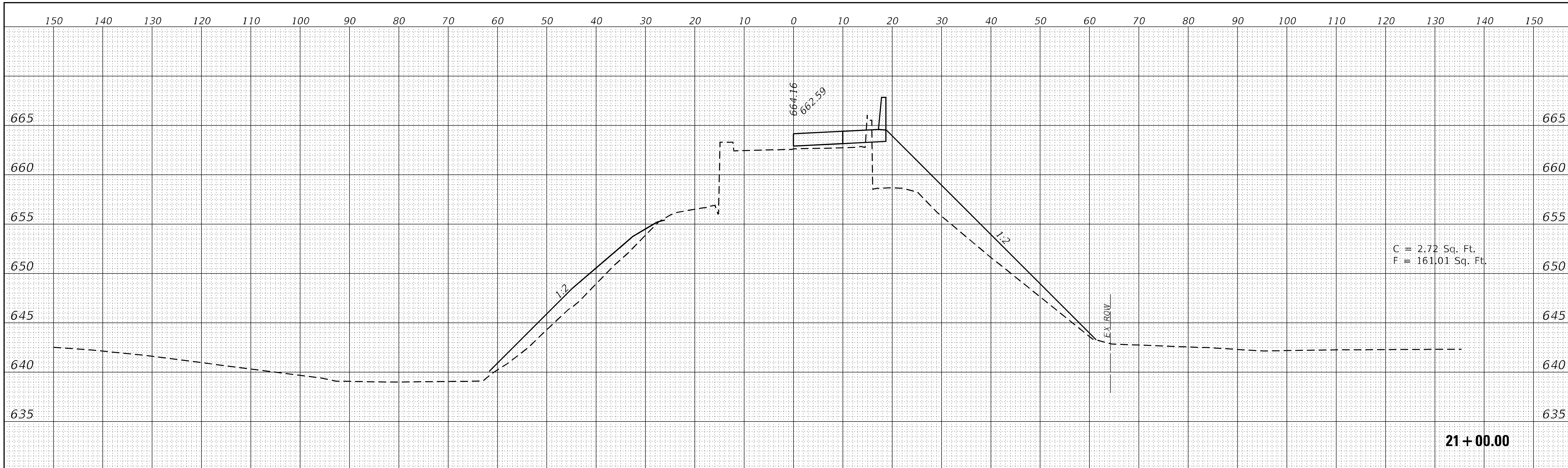
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

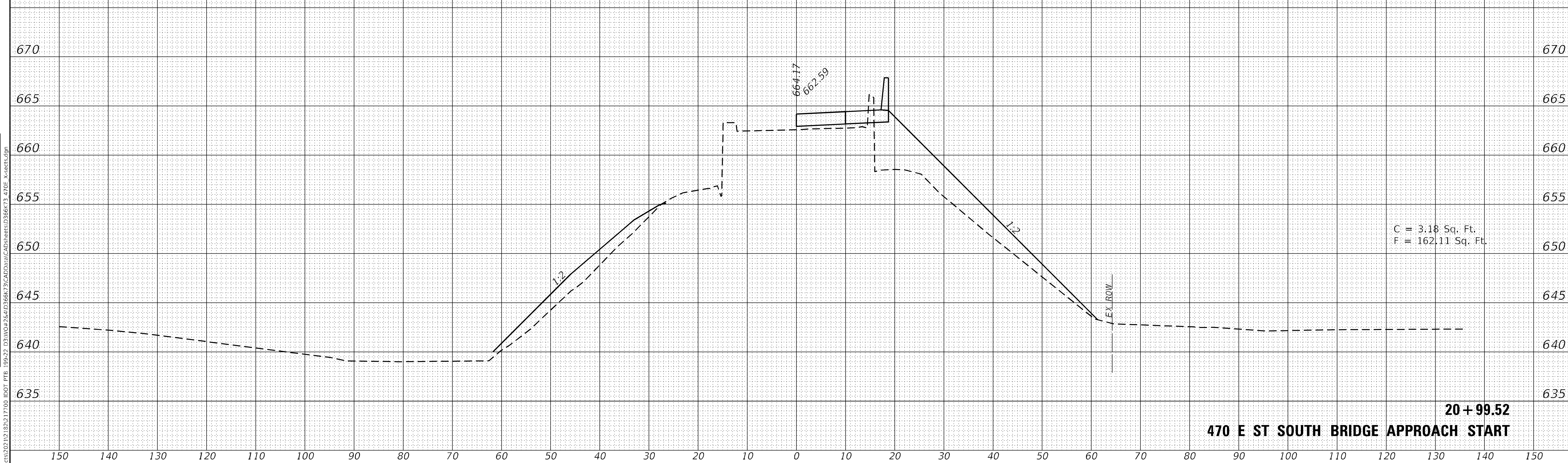
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 8 OF 15 SHEETS | STA. 18+50.00 TO STA. 18+76.88

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	173
		CONTRACT NO. 66K73		
	ILLINOIS	FED. AID PROJECT		





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PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

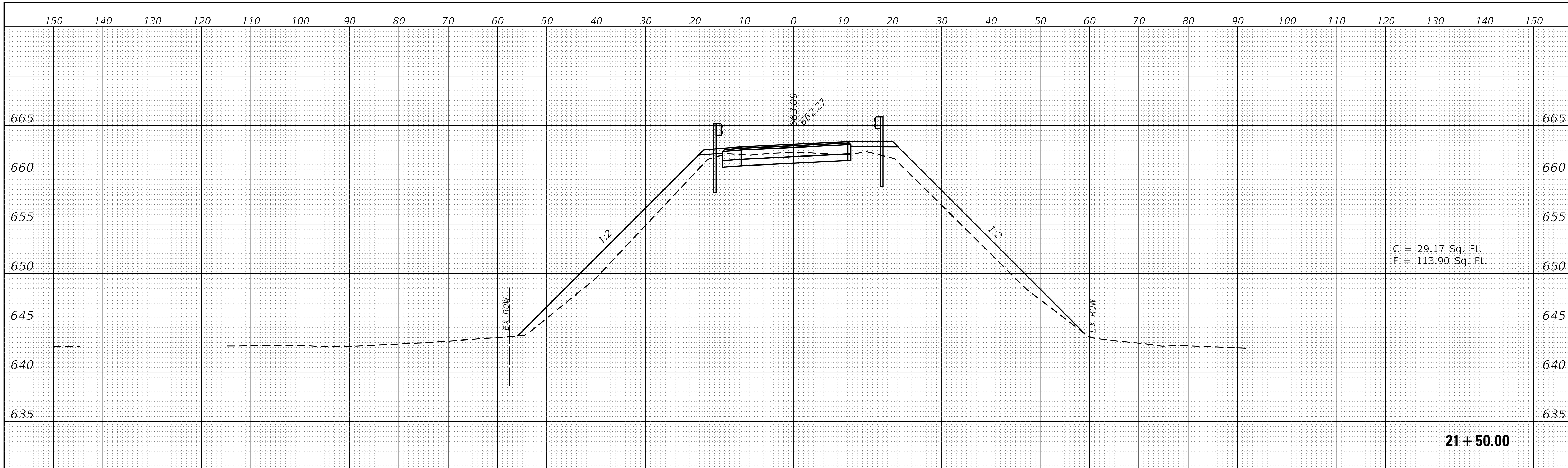
470 E ST CROSS SECTIONS

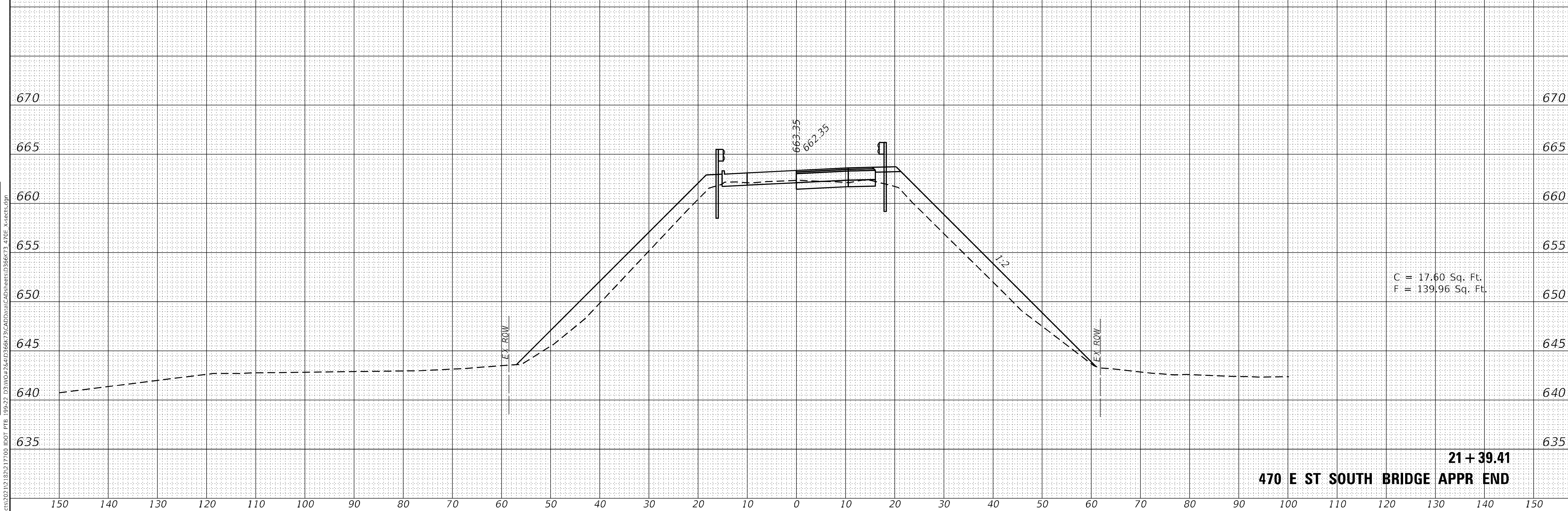
SCALE: 1" = 10' | SHEET 9 OF 15 SHEETS | STA. 20+99.52 TO STA. 21+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	174

CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT





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	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 10 OF 15 SHEETS | STA. 21+39.41 TO STA. 21+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	175
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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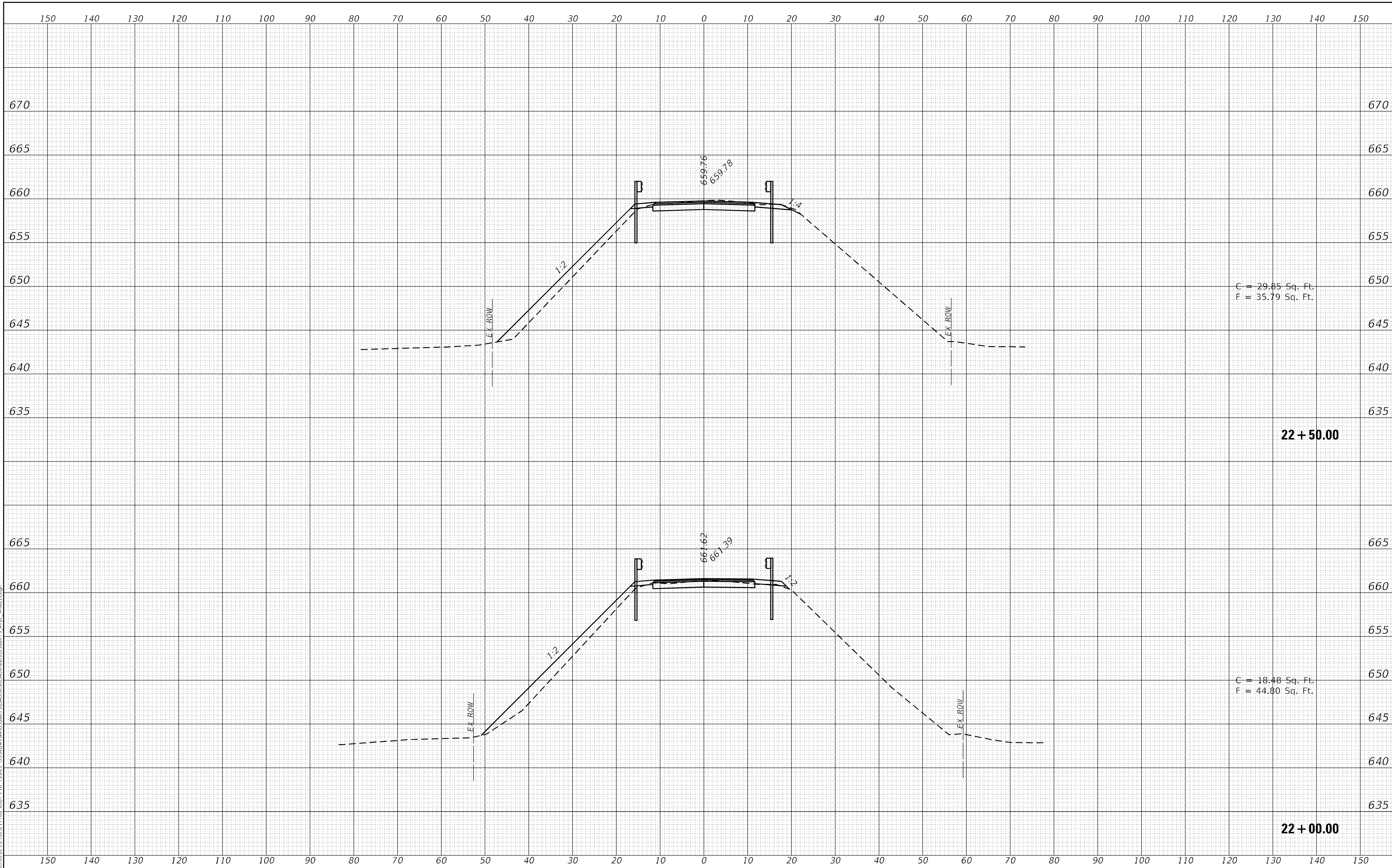

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		DRAWN - AMM	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 11 OF 15 SHEETS | STA. 22+00.00 TO STA. 22+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	176

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT

MODEL: Default
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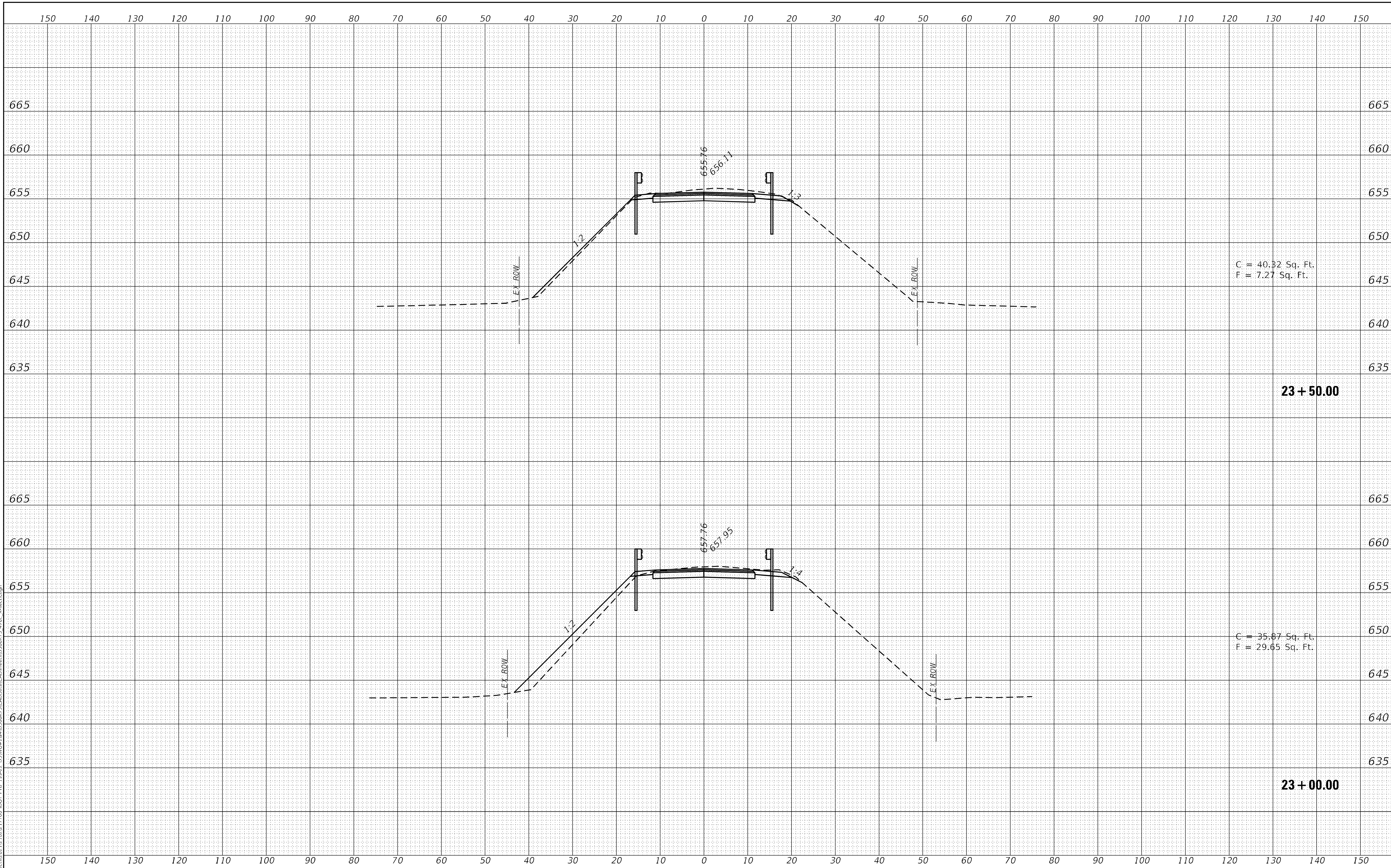

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -	
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

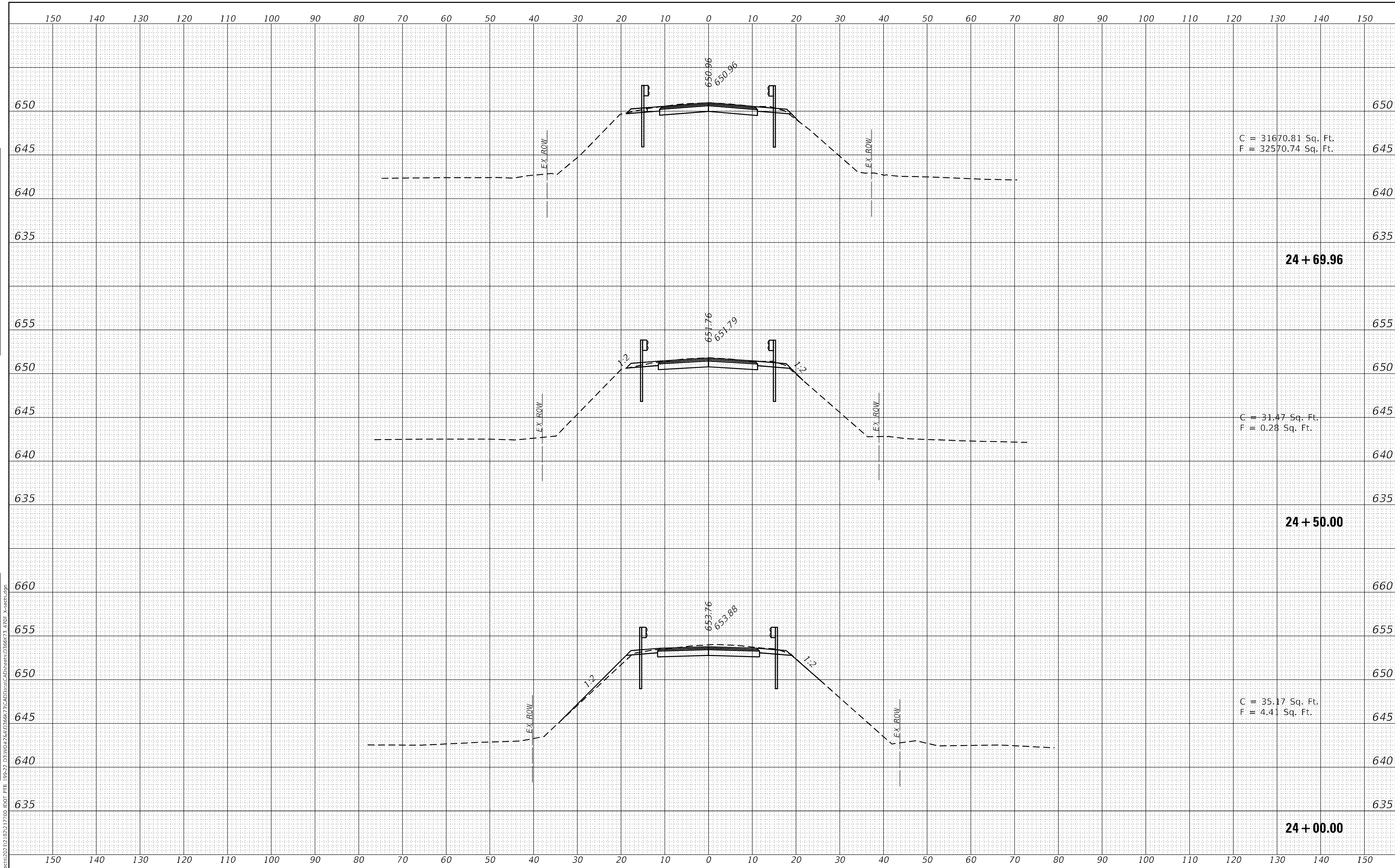
470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 12 OF 15 SHEETS | STA. 23+00.00 TO STA. 23+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	177

CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT



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

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

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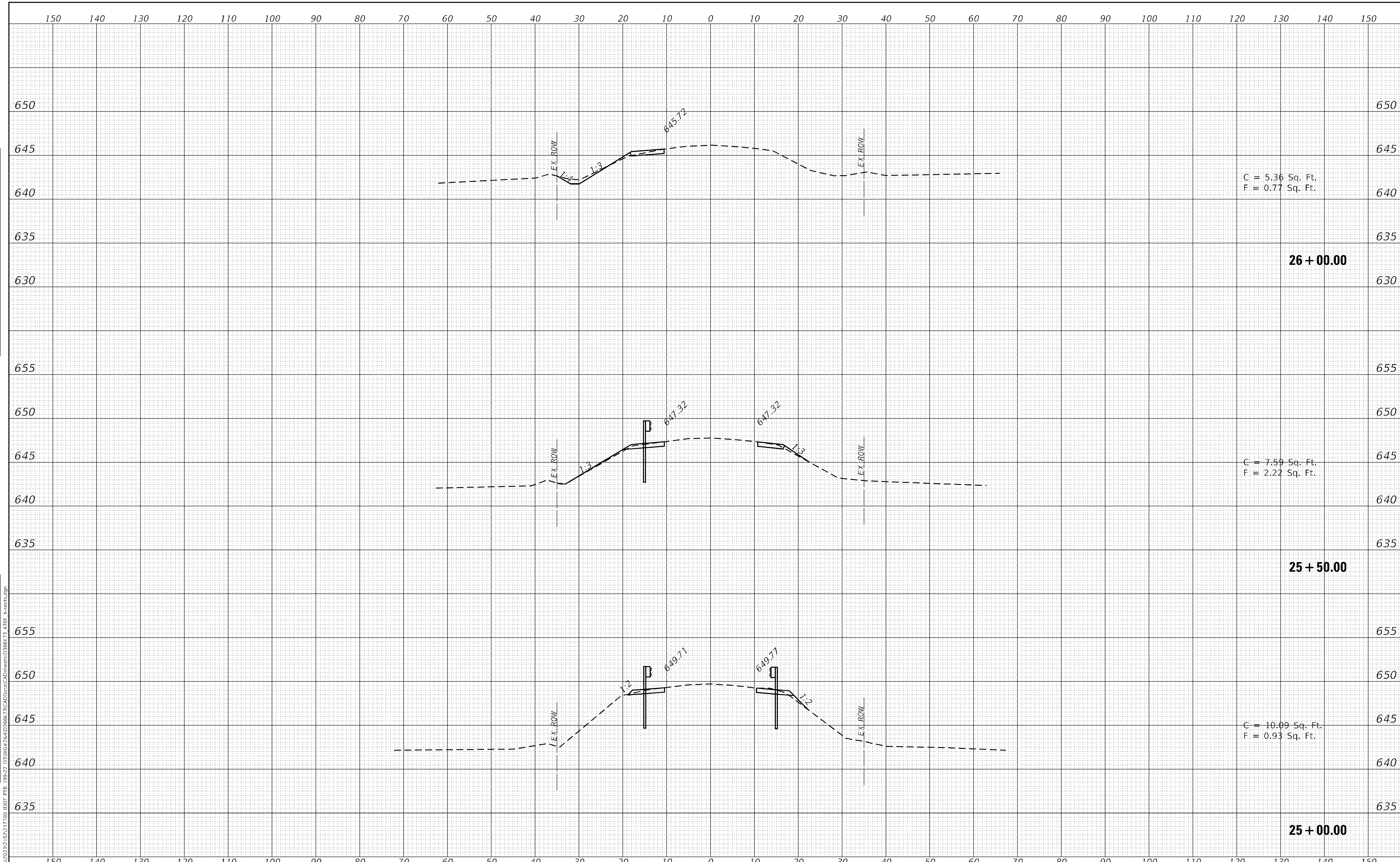
DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	470 E ST CROSS SECTIONS	F.A.I. RTE. 80	SECTION (06-1HB-2 & 06-2HB)BR	COUNTY BUREAU	TOTAL SHEETS 202	SHEET NO. 178
		DRAWN - AMM	REVISED -			CONTRACT NO. 66K73				
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -		SCALE: 1" = 10'	SHEET 13 OF 15 SHEETS	STA. 24+00.00 TO STA. 24+69.96			
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -			ILLINOIS FED. AID PROJECT				



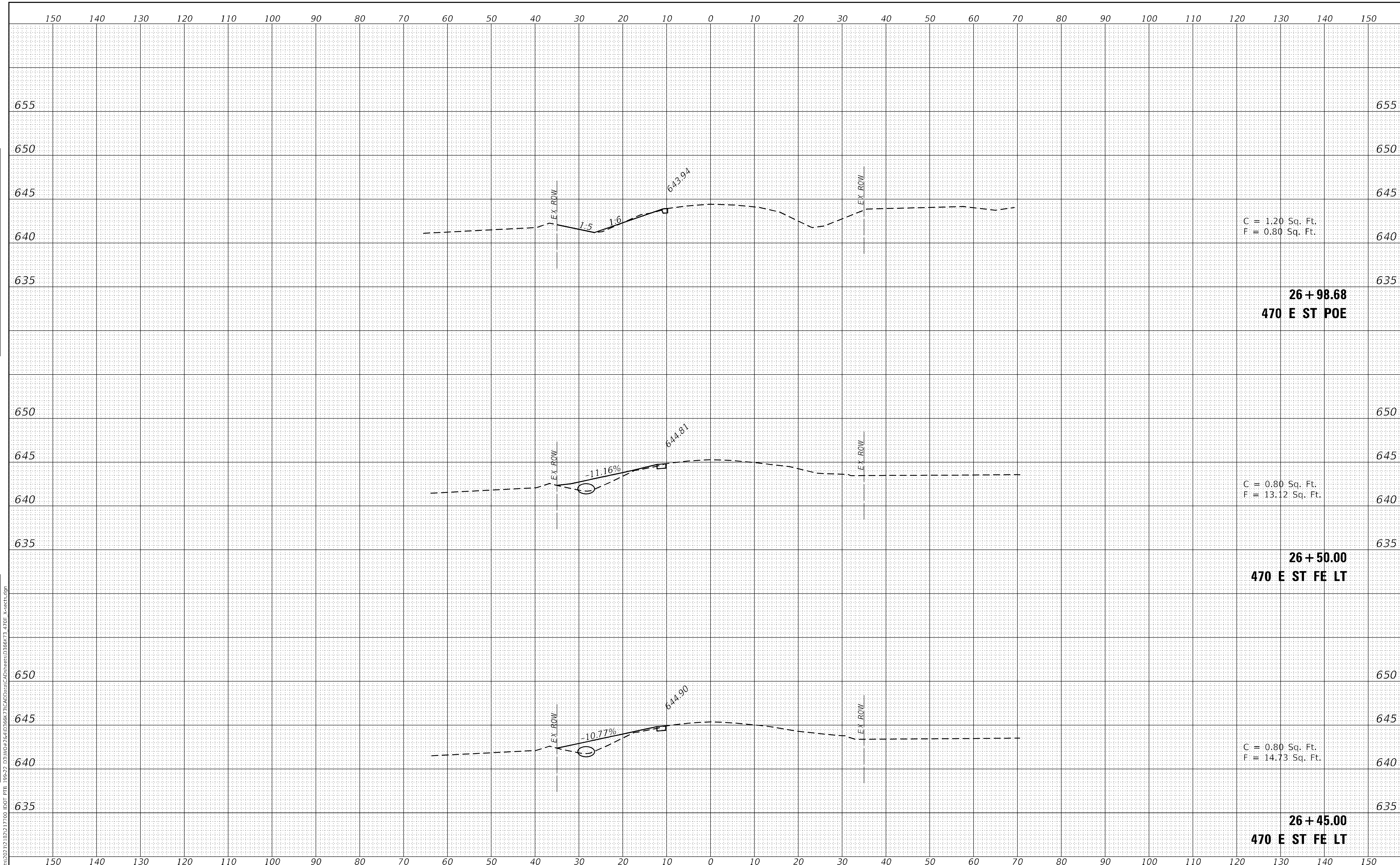
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

MODEL: Default

DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	470 E ST CROSS SECTIONS
		DRAWN - AMM	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -		
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -		SCALE: 1" = 10' SHEET 14 OF 15 SHEETS STA. 25+00.00 TO STA. 26+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	179
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -	
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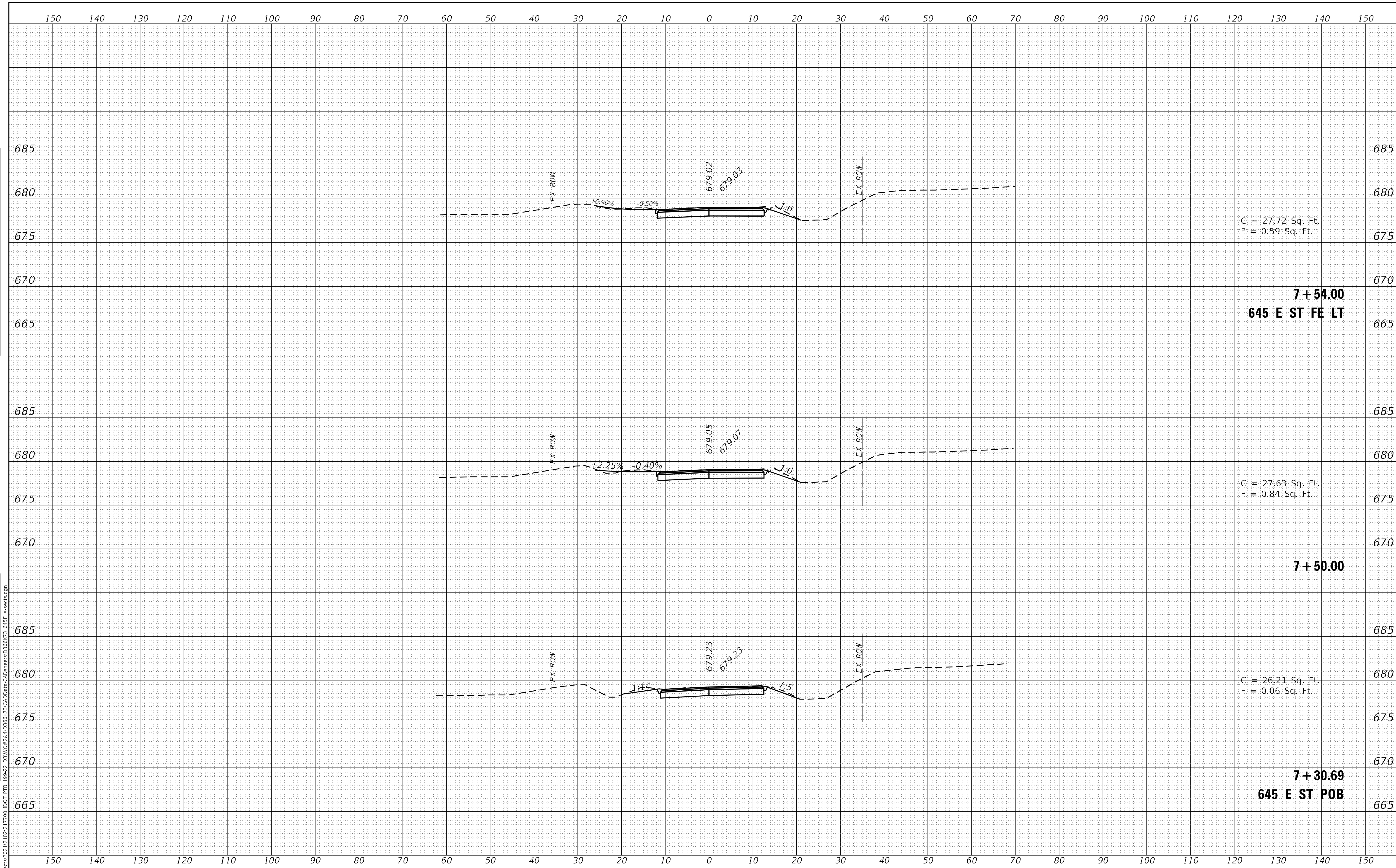
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

470 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 15 OF 15 SHEETS | STA. 26+45.00 TO STA. 26+98.68 (POE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	180
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -
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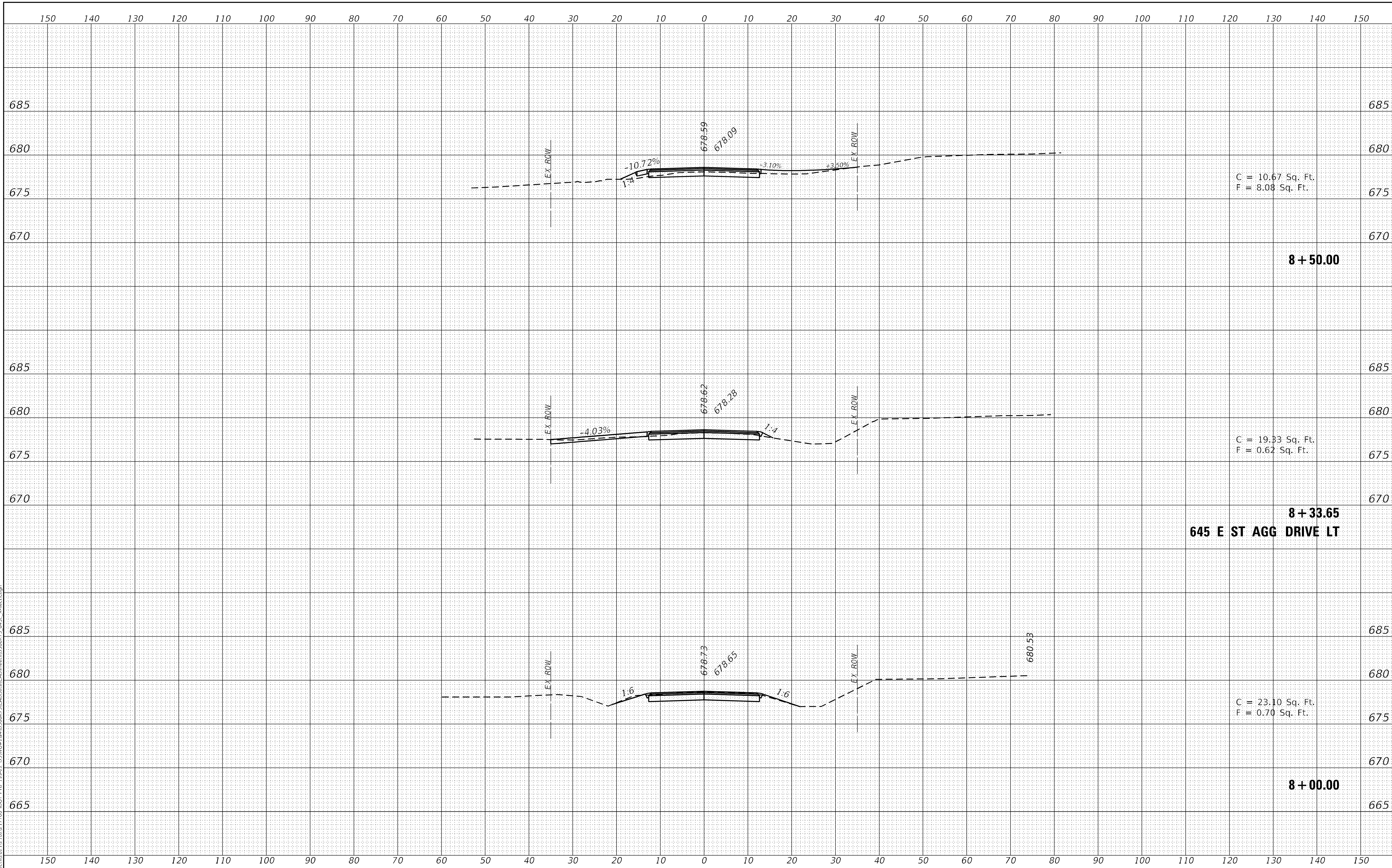
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 1 OF 21 SHEETS | STA. 7+30.69 (POB) TO STA. 7+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	181
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -
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PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

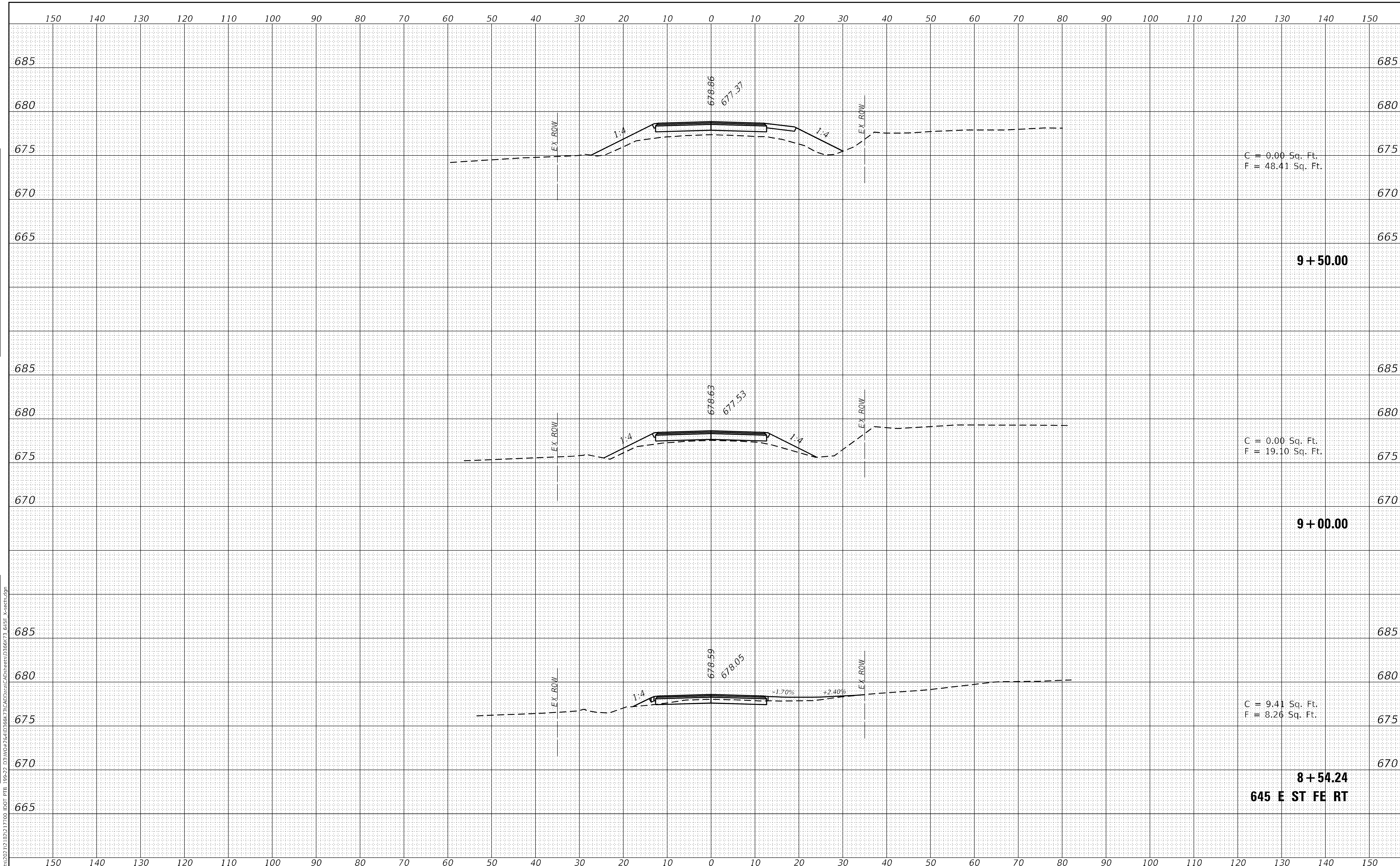
645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 2 OF 21 SHEETS | STA. 8+00.00 TO STA. 8+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	182

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT



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

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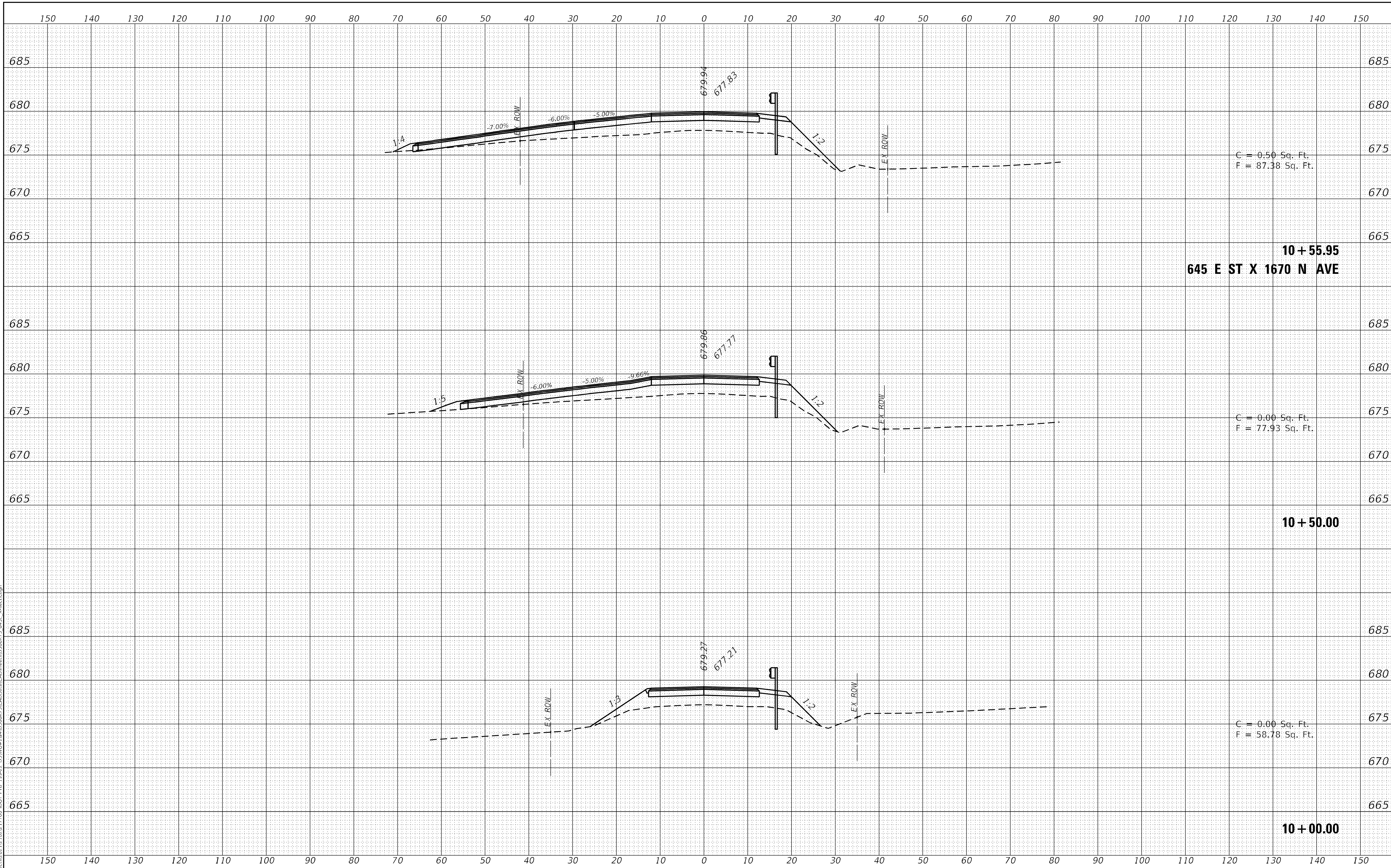
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 3 OF 21 SHEETS | STA. 8+54.24 TO STA. 9+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	183
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 4 OF 21 SHEETS | STA. 10+00.00 TO STA. 10+55.95

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	184

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT

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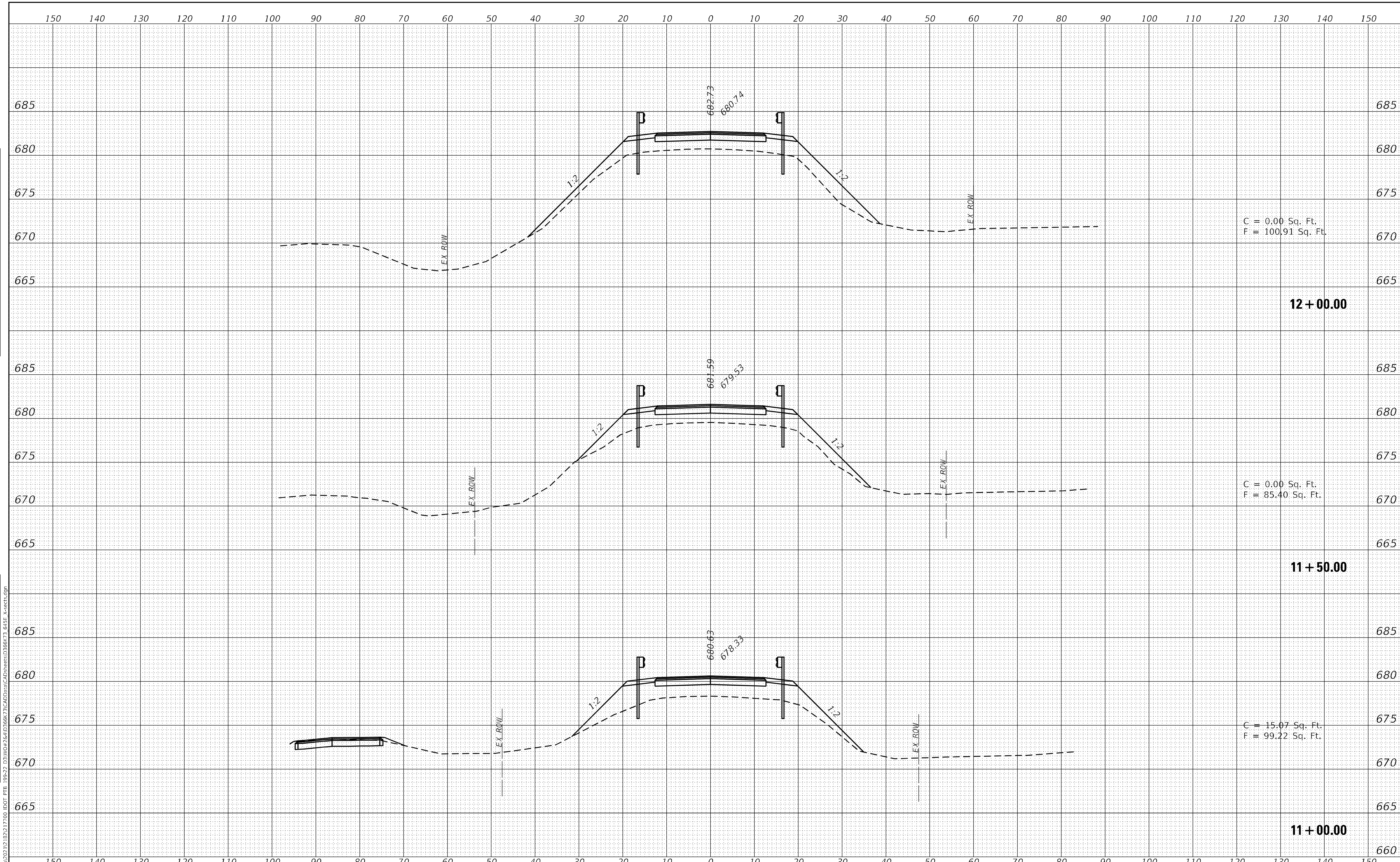

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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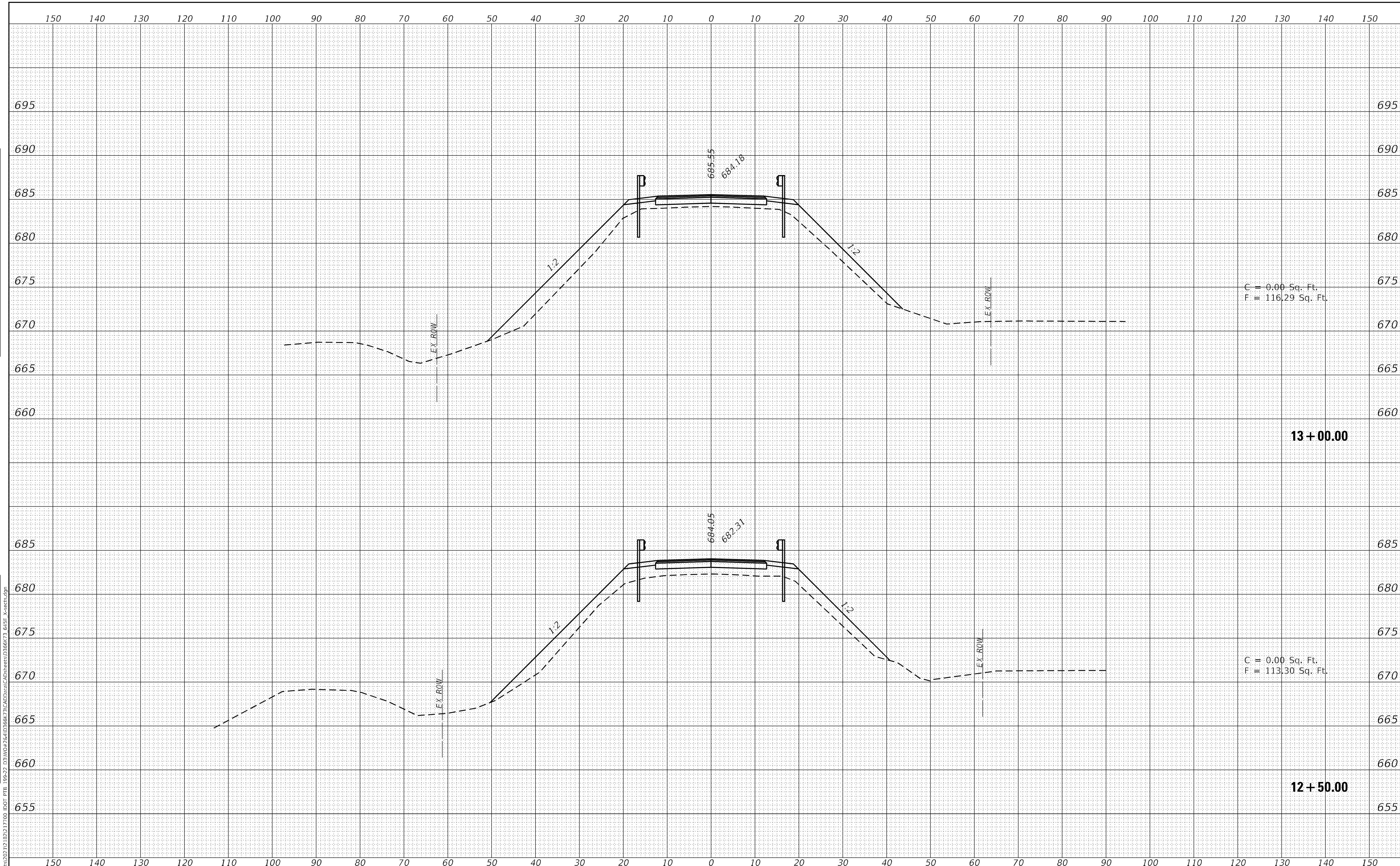
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 5 OF 21 SHEETS | STA. 11+00.00 TO STA. 12+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	185
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

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PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

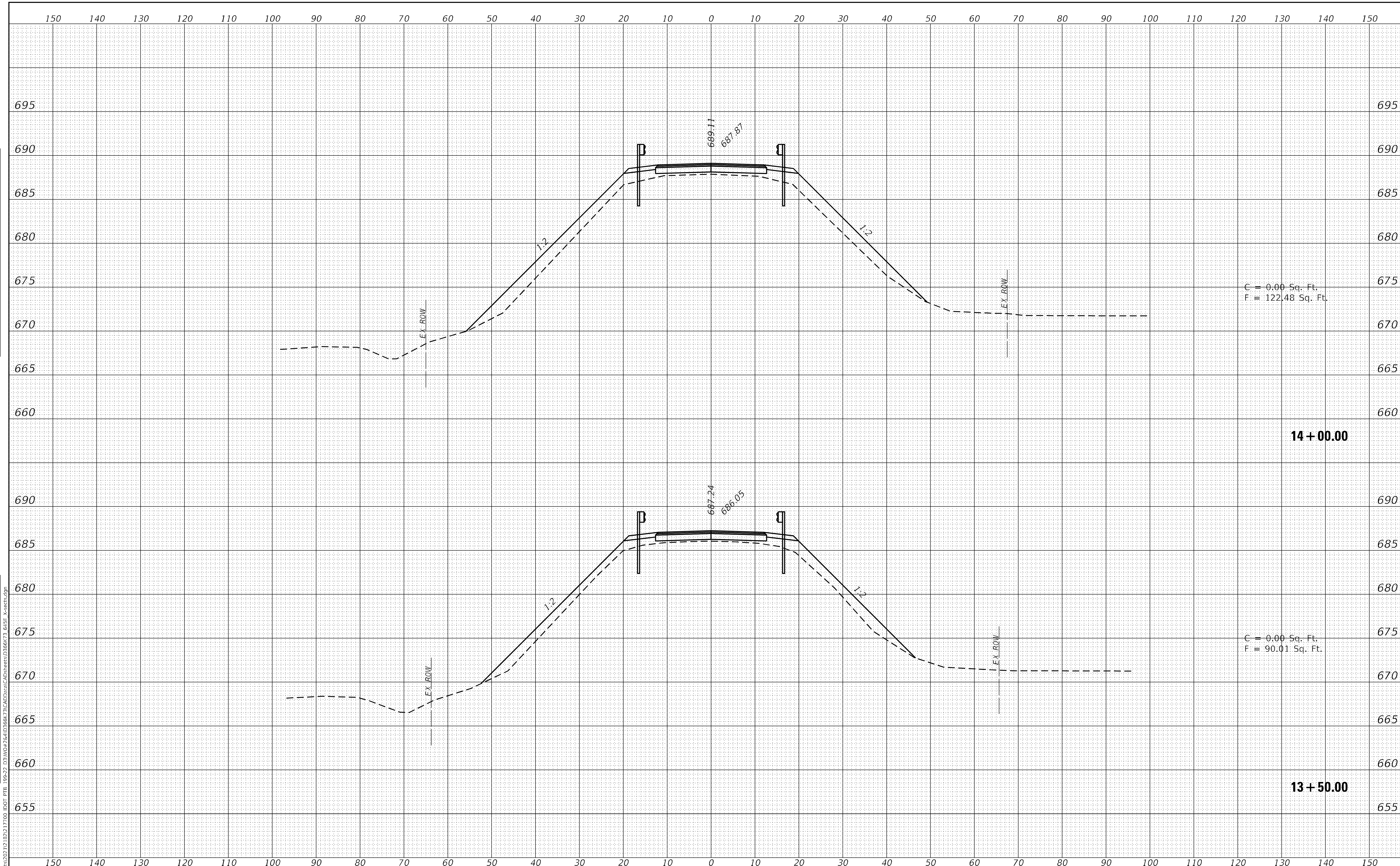
645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 6 OF 21 SHEETS | STA. 12+50.00 TO STA. 13+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	186

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT



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

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

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DLZ

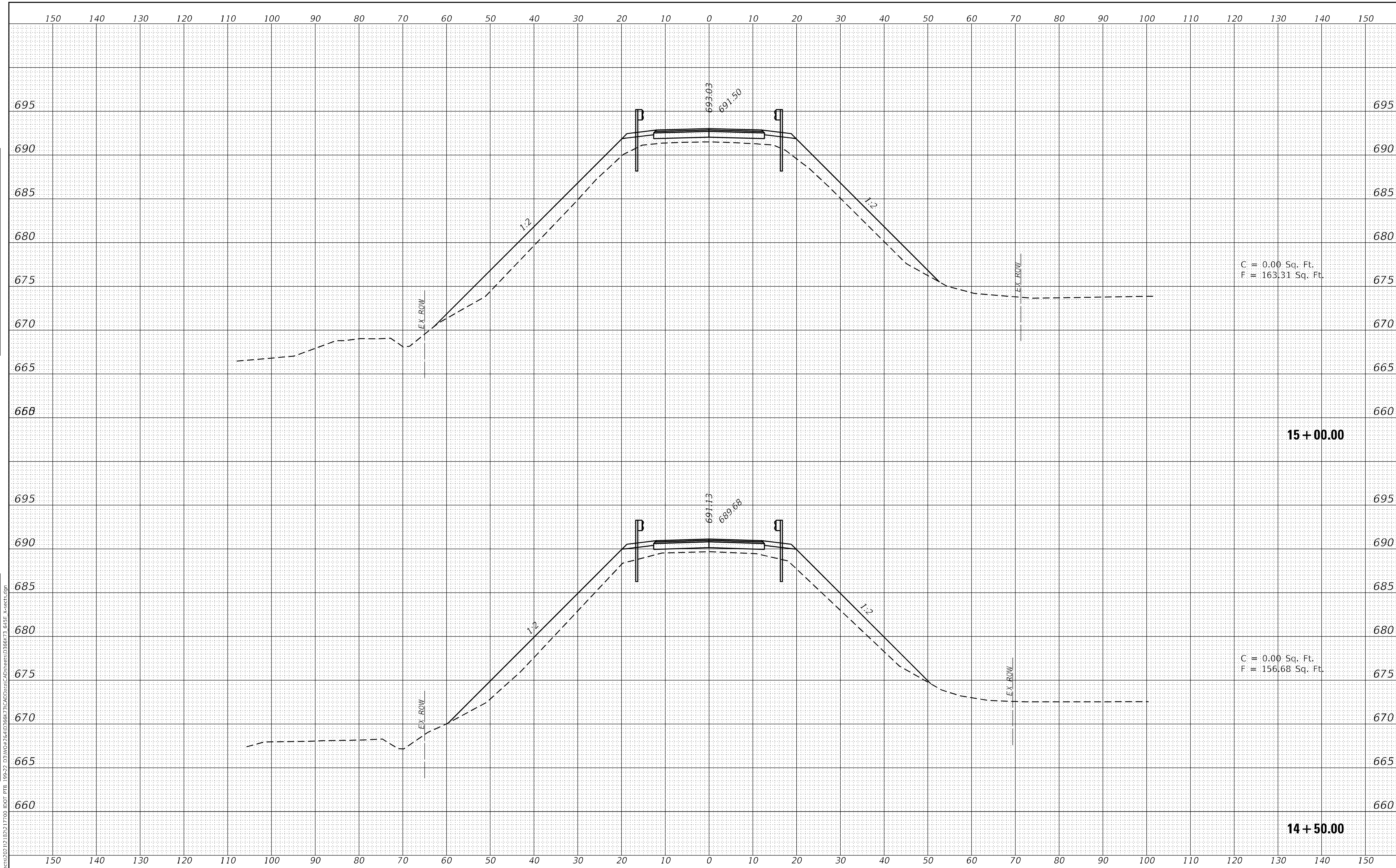
USER NAME = amonocchio	DESIGNED - AMM	REVISED -	
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 7 OF 21 SHEETS | STA. 13+50.00 TO STA. 14+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	187
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	645 E ST CROSS SECTIONS
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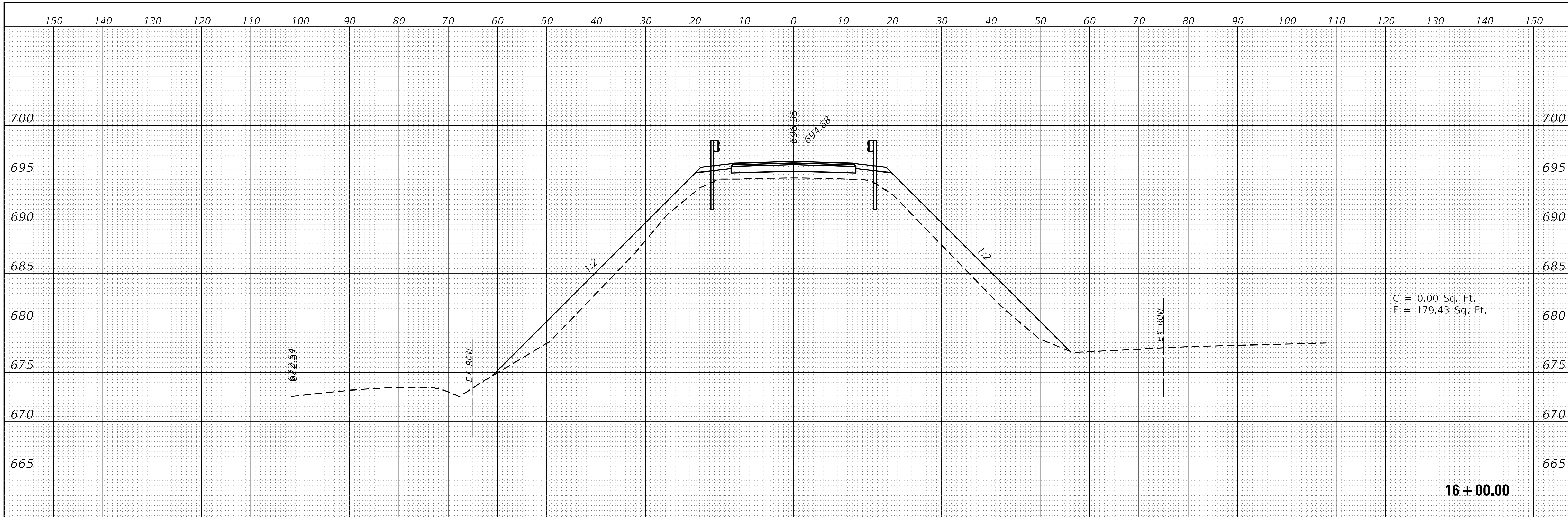
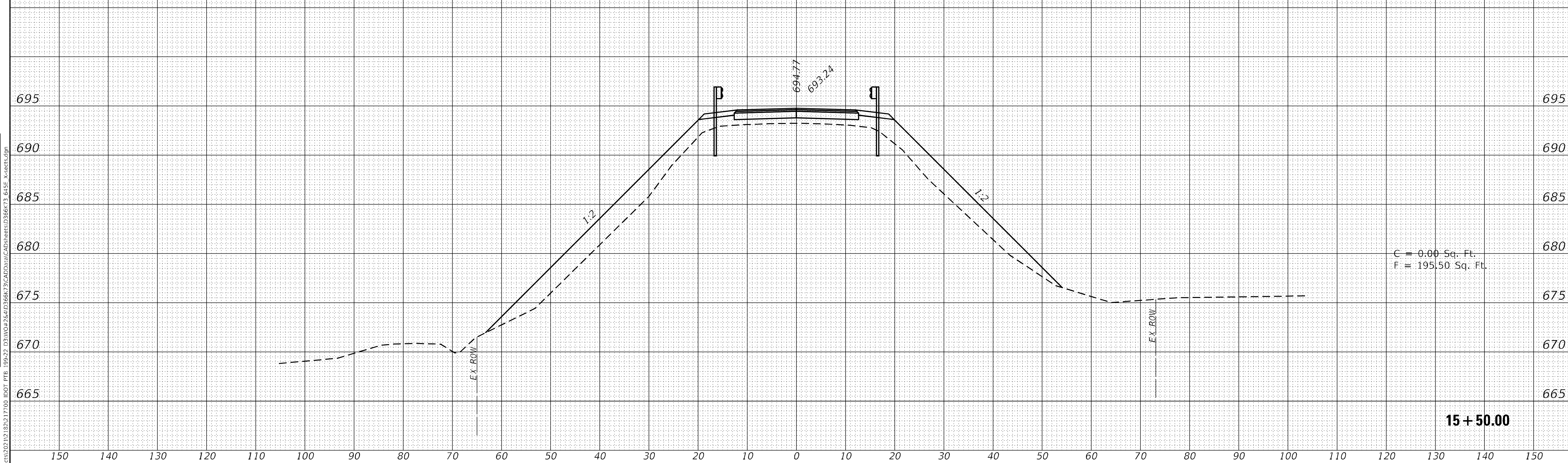
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -		
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -		SCALE: 1" = 10' SHEET 8 OF 21 SHEETS STA. 14+50.00 TO STA. 15+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	188
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		





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

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

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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -
	DRAWN - AMM	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

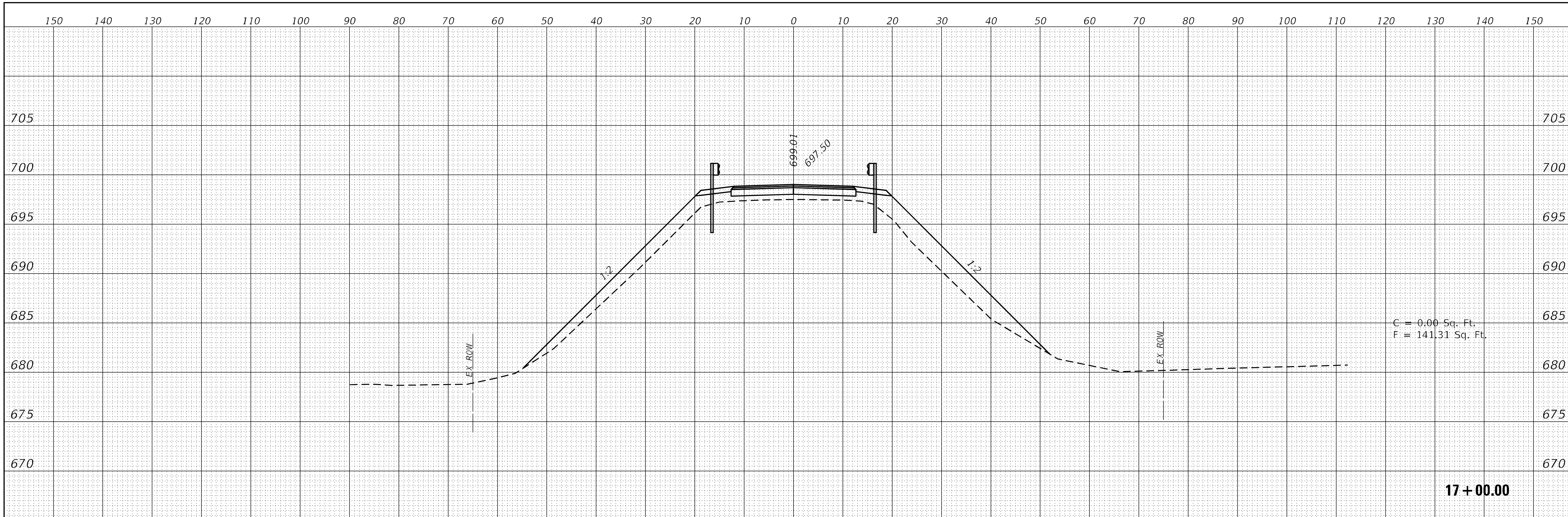
645 E ST CROSS SECTIONS

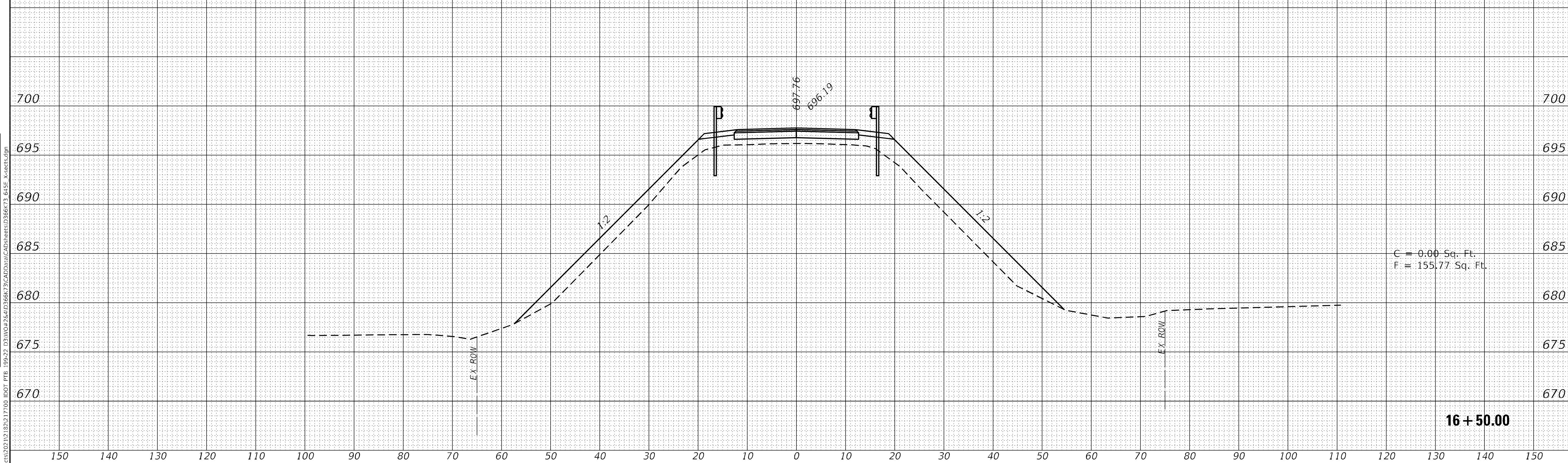
SCALE: 1" = 10' | SHEET 9 OF 21 SHEETS | STA. 15+50.00 TO STA. 16+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	189

CONTRACT NO. 66K73

ILLINOIS FED. AID PROJECT





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

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

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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

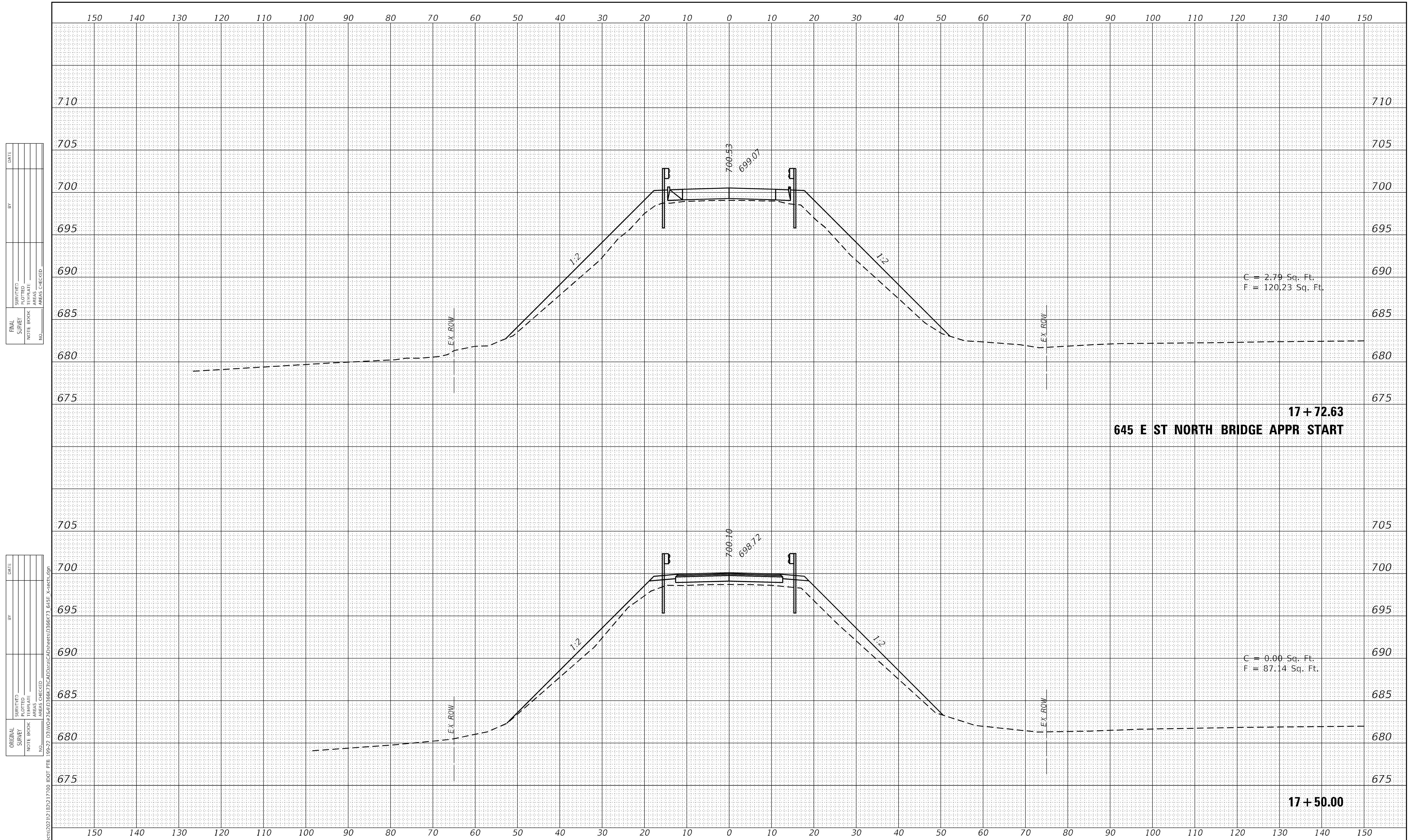
645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 10 OF 21 SHEETS | STA. 16+50.00 TO STA. 17+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	190

CONTRACT NO. 66K73

ILLINOIS | FED. AID PROJECT



DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - AMM	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 11 OF 21 SHEETS | STA. 17+50.00 TO STA. 18+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	191
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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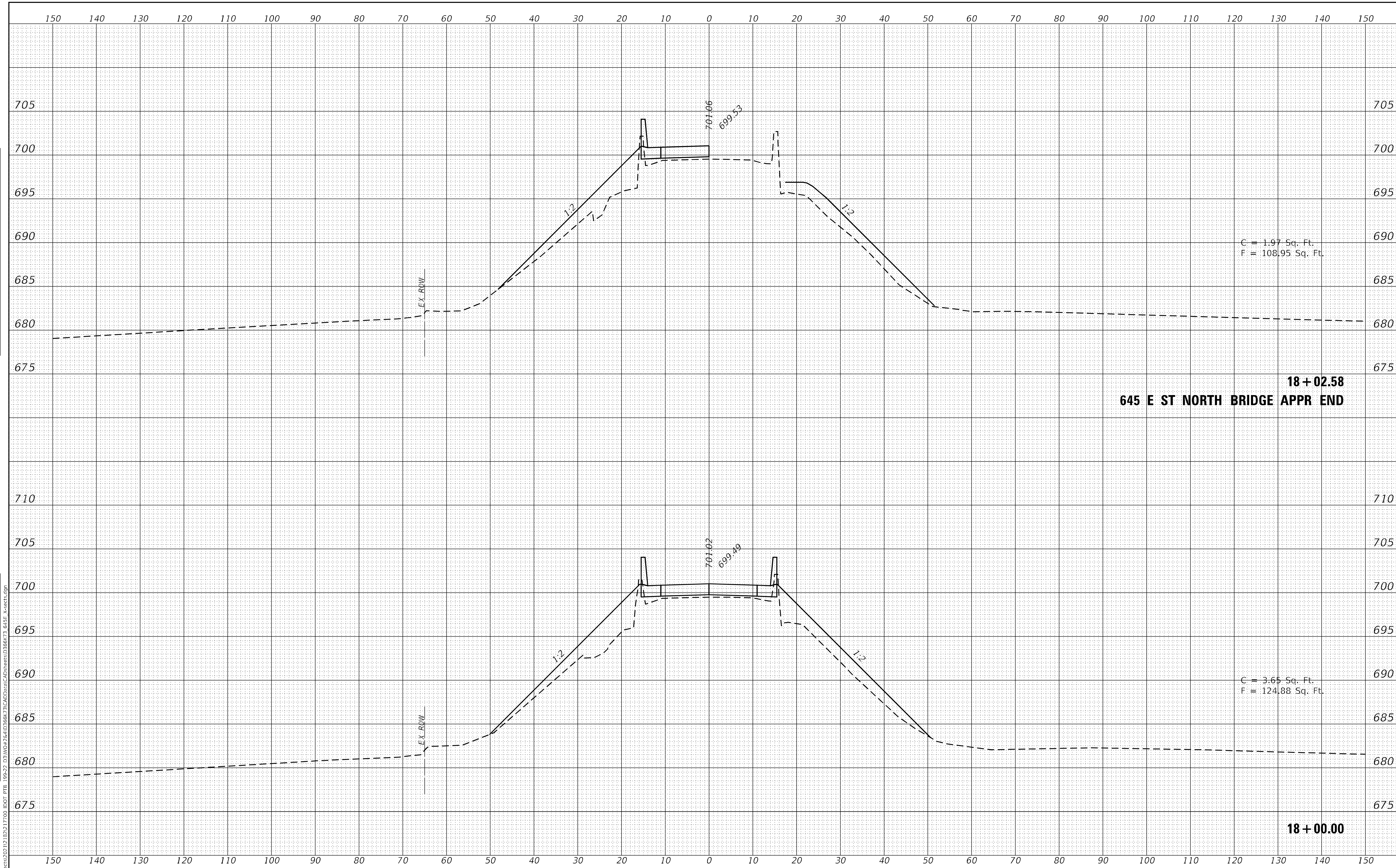
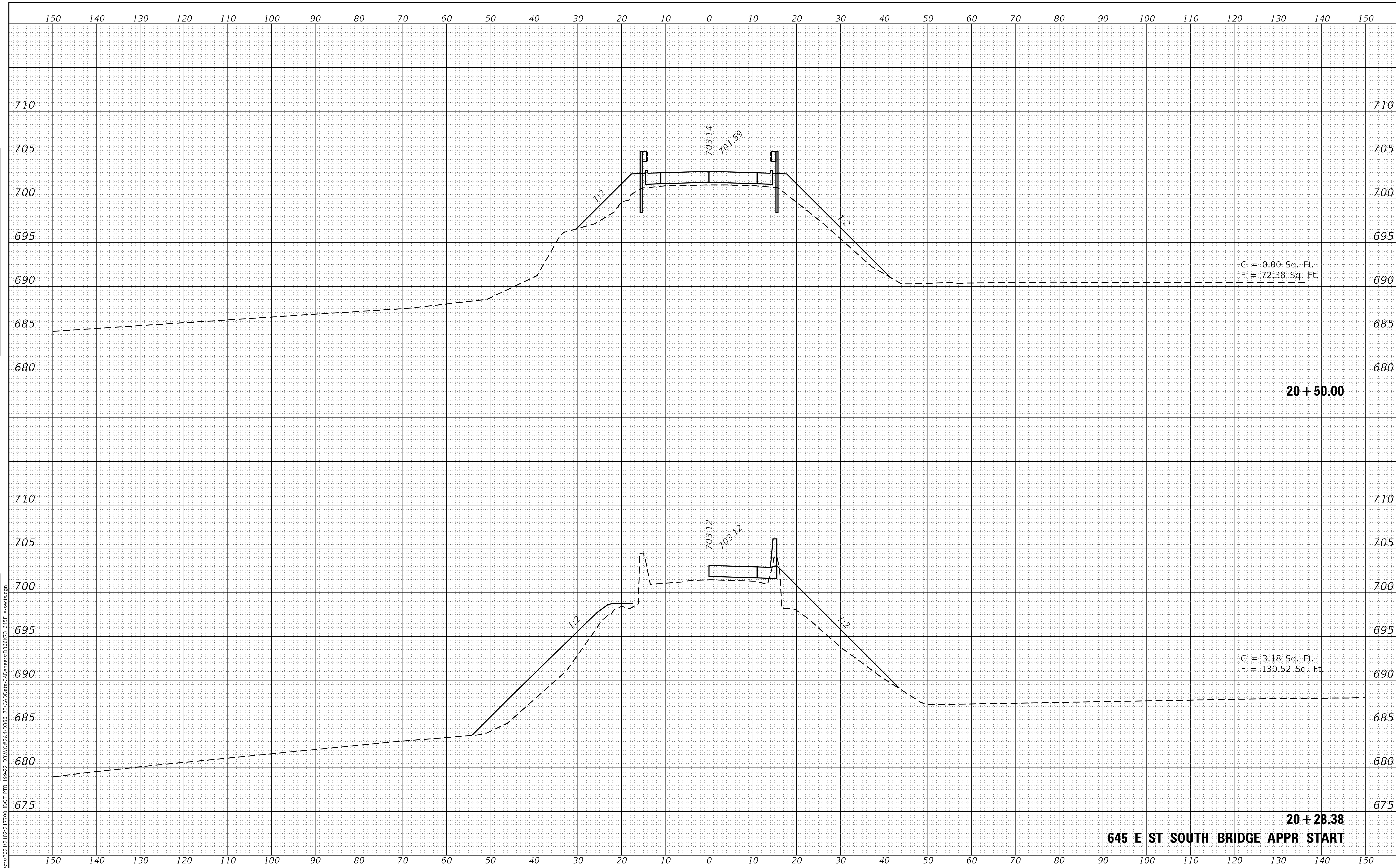


FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

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

MODEL: Default

DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	645 E ST CROSS SECTIONS	F.A.I. RTE. 80	SECTION (06-1HB-2 & 06-2HB)BR
		DRAWN - AMM	REVISED -			COUNTY BUREAU	TOTAL SHEETS 202
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -		SCALE: 1" = 10'	SHEET 12 OF 21 SHEETS	SHEET NO. 192
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -		STA. 18+00.00 TO STA. 18+02.58	CONTRACT NO. 66K73	ILLINOIS FED. AID PROJECT



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

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

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DLZ

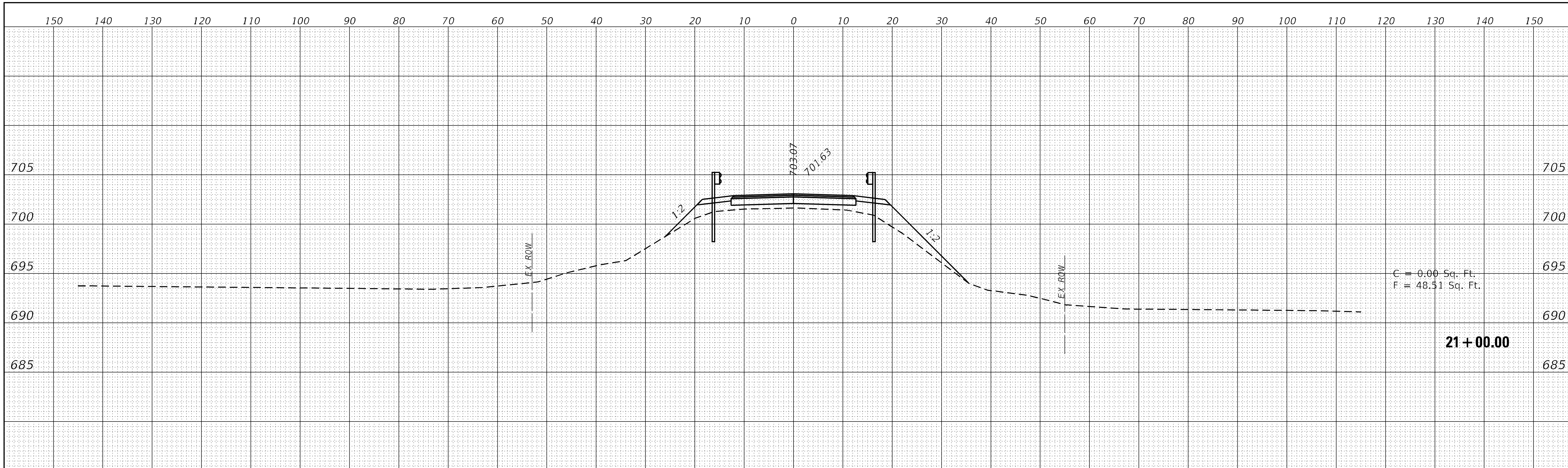
USER NAME = amonocchio	DESIGNED - AMM	REVISED -
	DRAWN - AMM	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

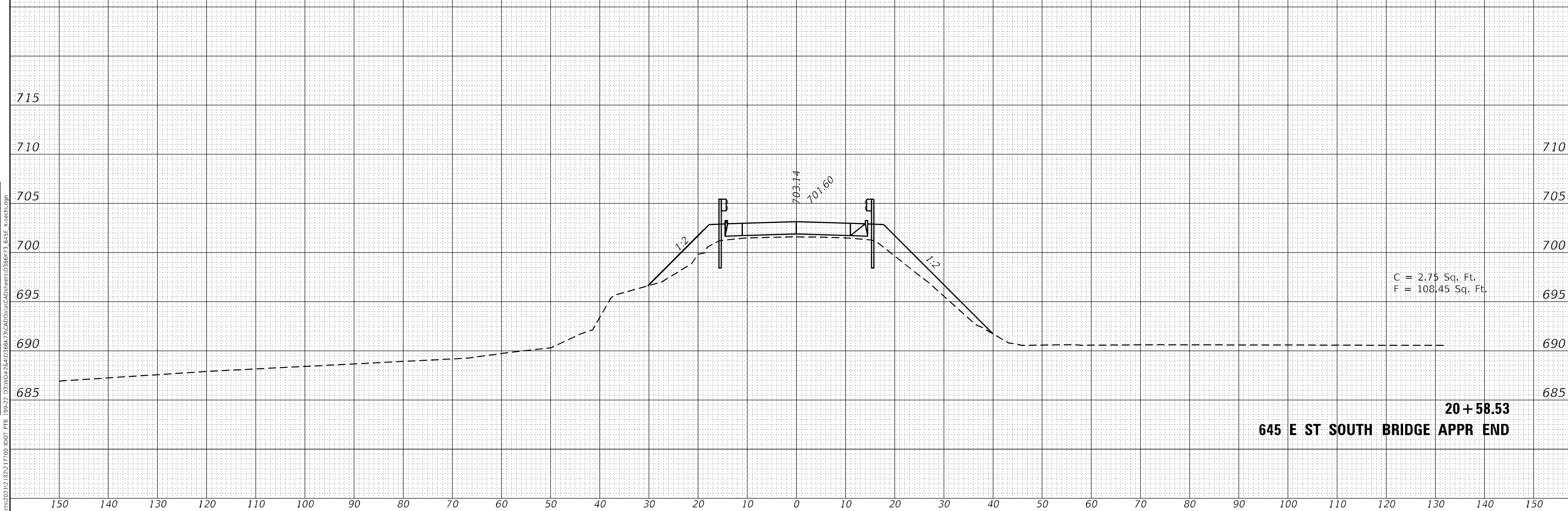
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 13 OF 21 SHEETS | STA. 20+28.38 TO STA. 20+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	193
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		





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

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

MODEL: Default
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DLZ

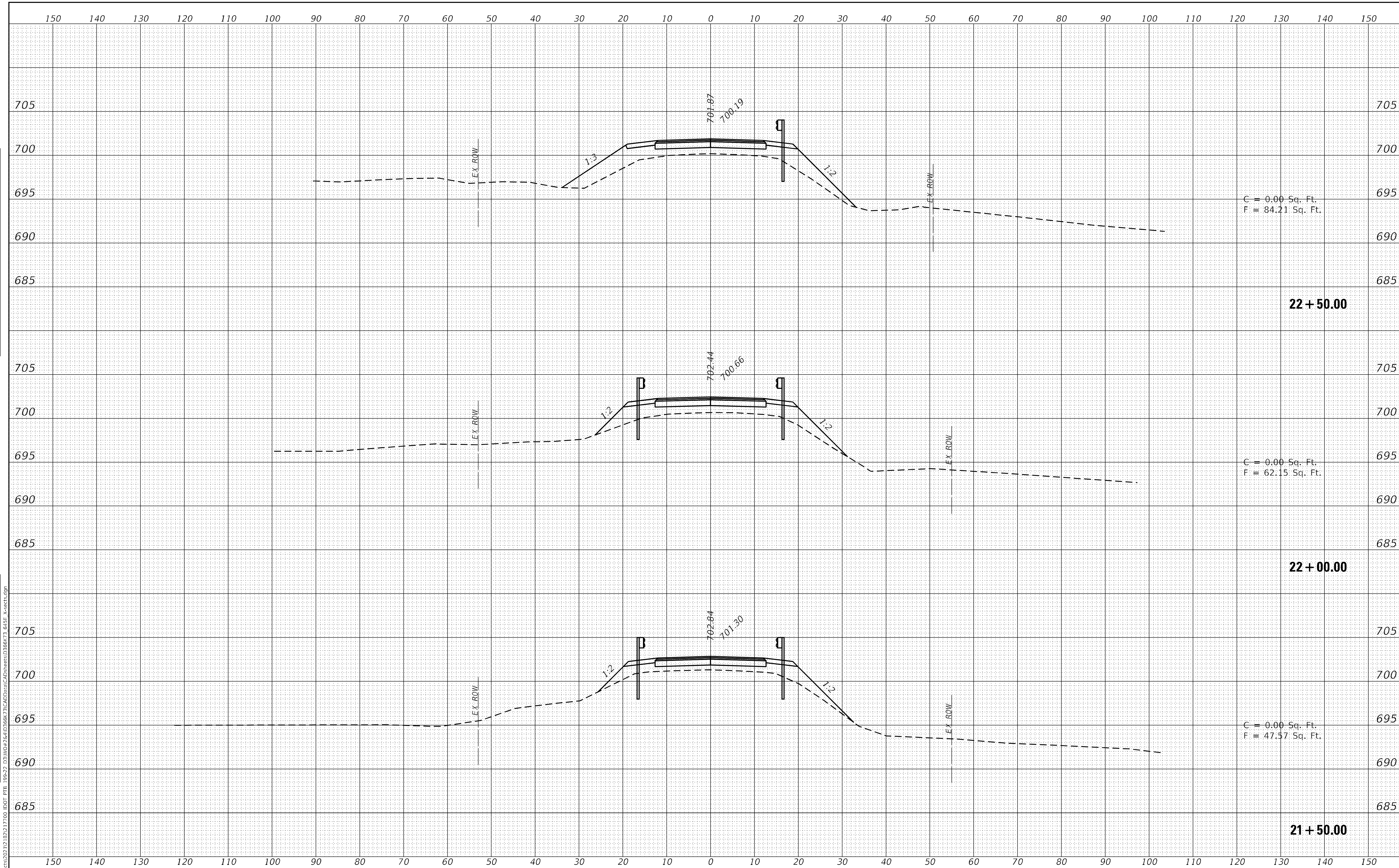
USER NAME = amonocchio	DESIGNED - AMM	REVISED -	
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 14 OF 21 SHEETS | STA. 20+58.53 TO STA. 21+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	194
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



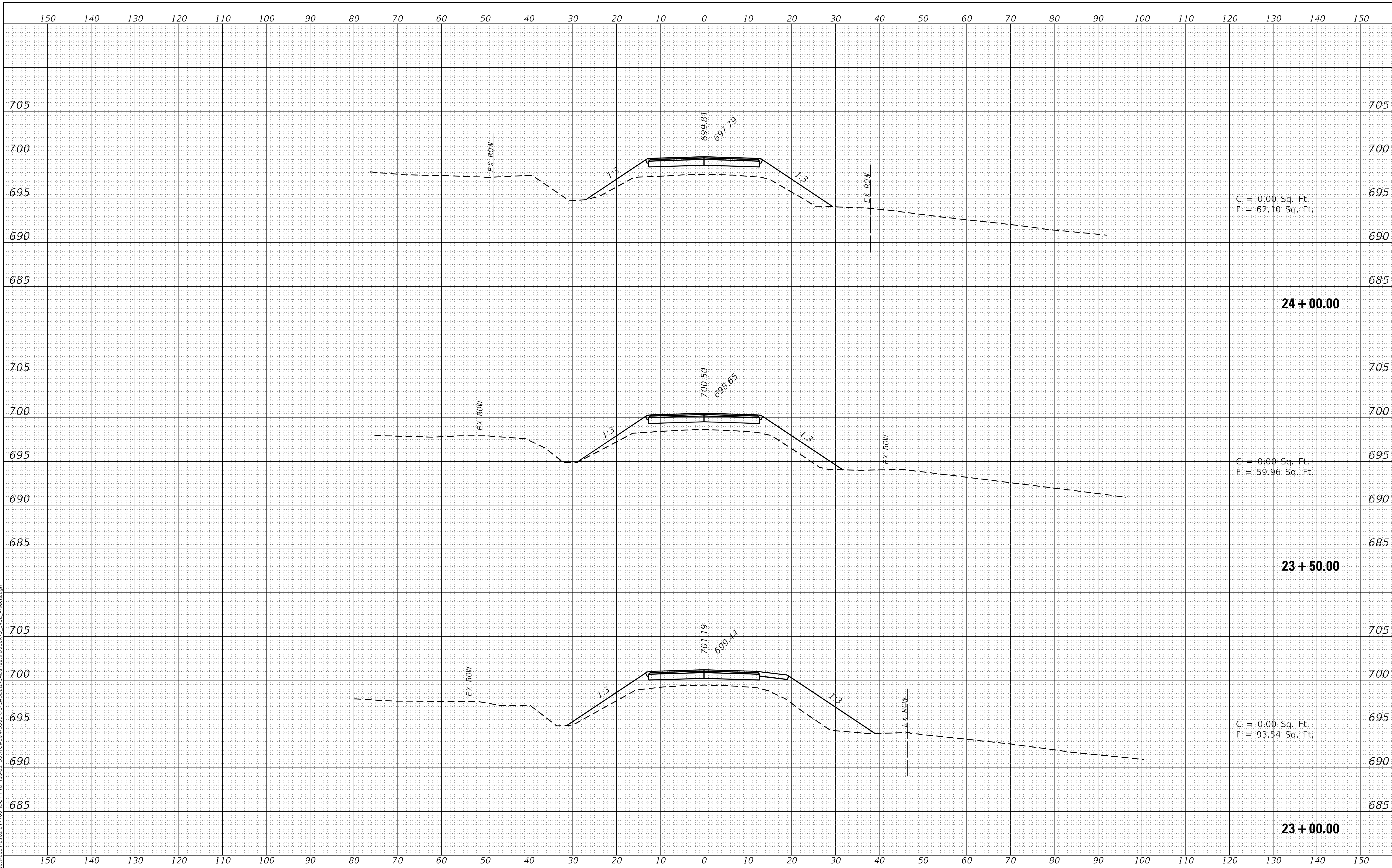
FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

MODEL: Default

DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	645 E ST CROSS SECTIONS
		DRAWN - AMM	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -		
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -		SCALE: 1" = 10' SHEET 15 OF 21 SHEETS STA. 21+50.00 TO STA. 22+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	195
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

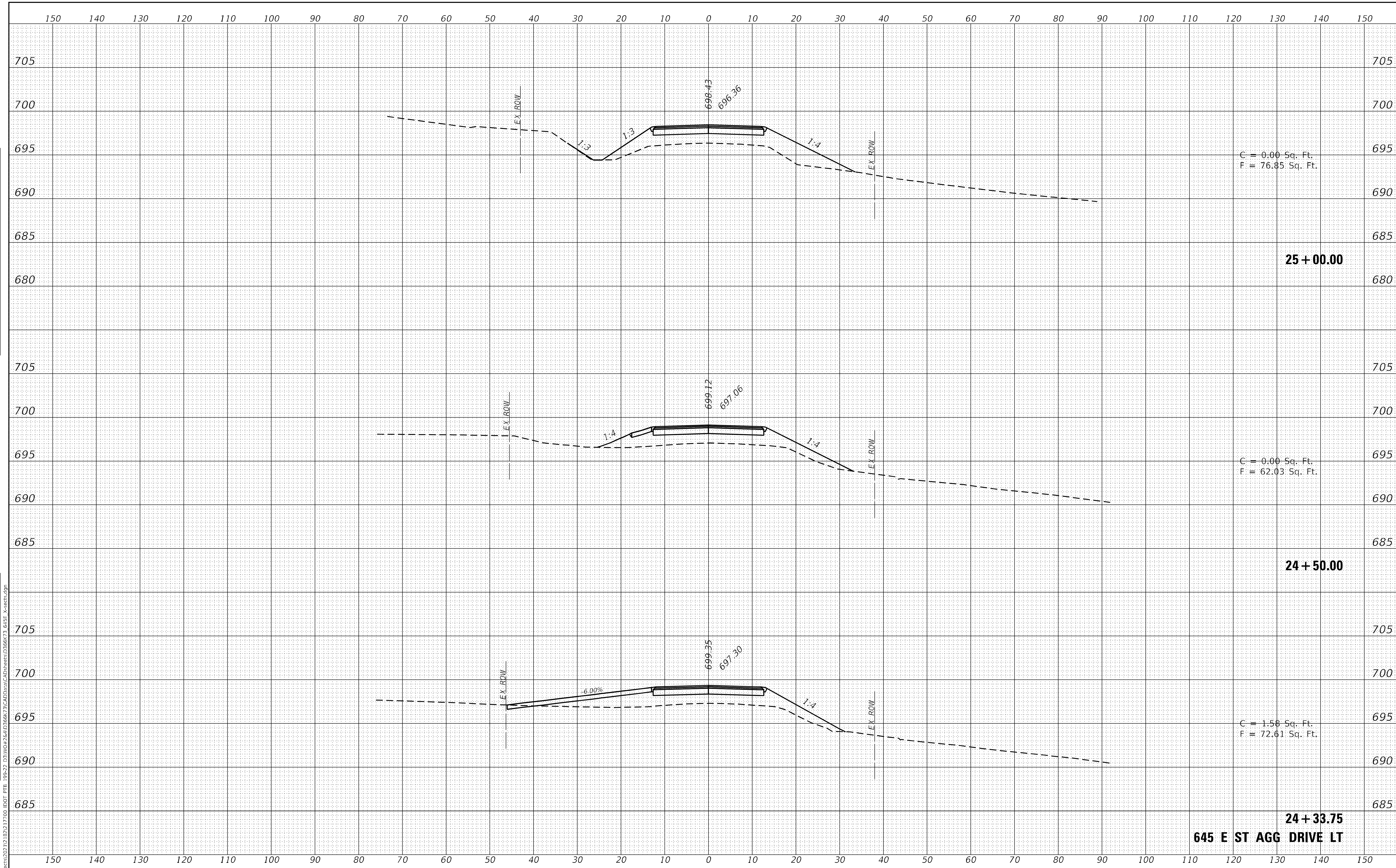
USER NAME = amonocchio	DESIGNED - AMM	REVISED -	
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 16 OF 21 SHEETS | STA. 23+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	196
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

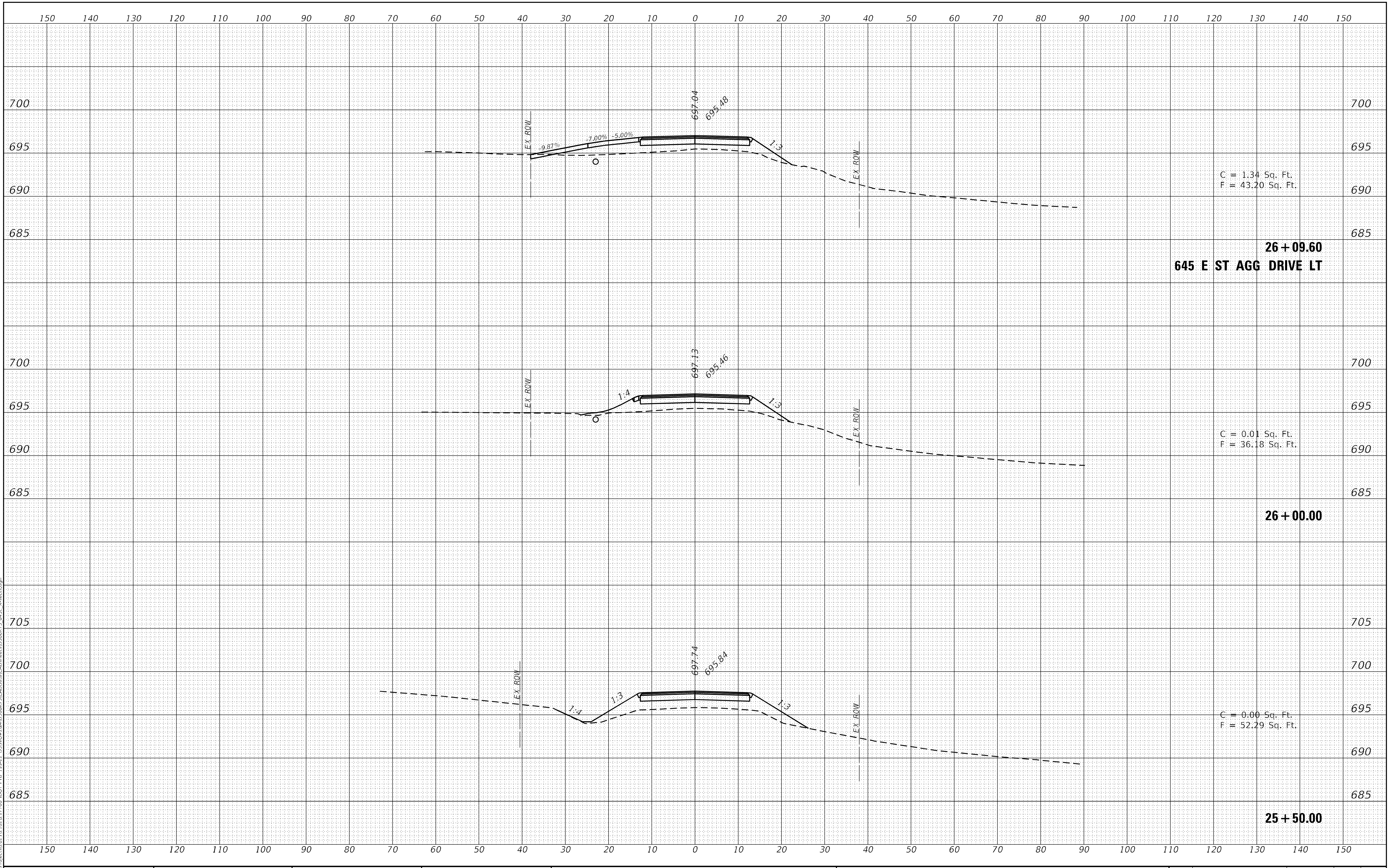
USER NAME = amonocchio	DESIGNED - AMM	REVISED -
	DRAWN - AMM	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 17 OF 21 SHEETS | STA. 24+33.75 TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	197
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

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DLZ

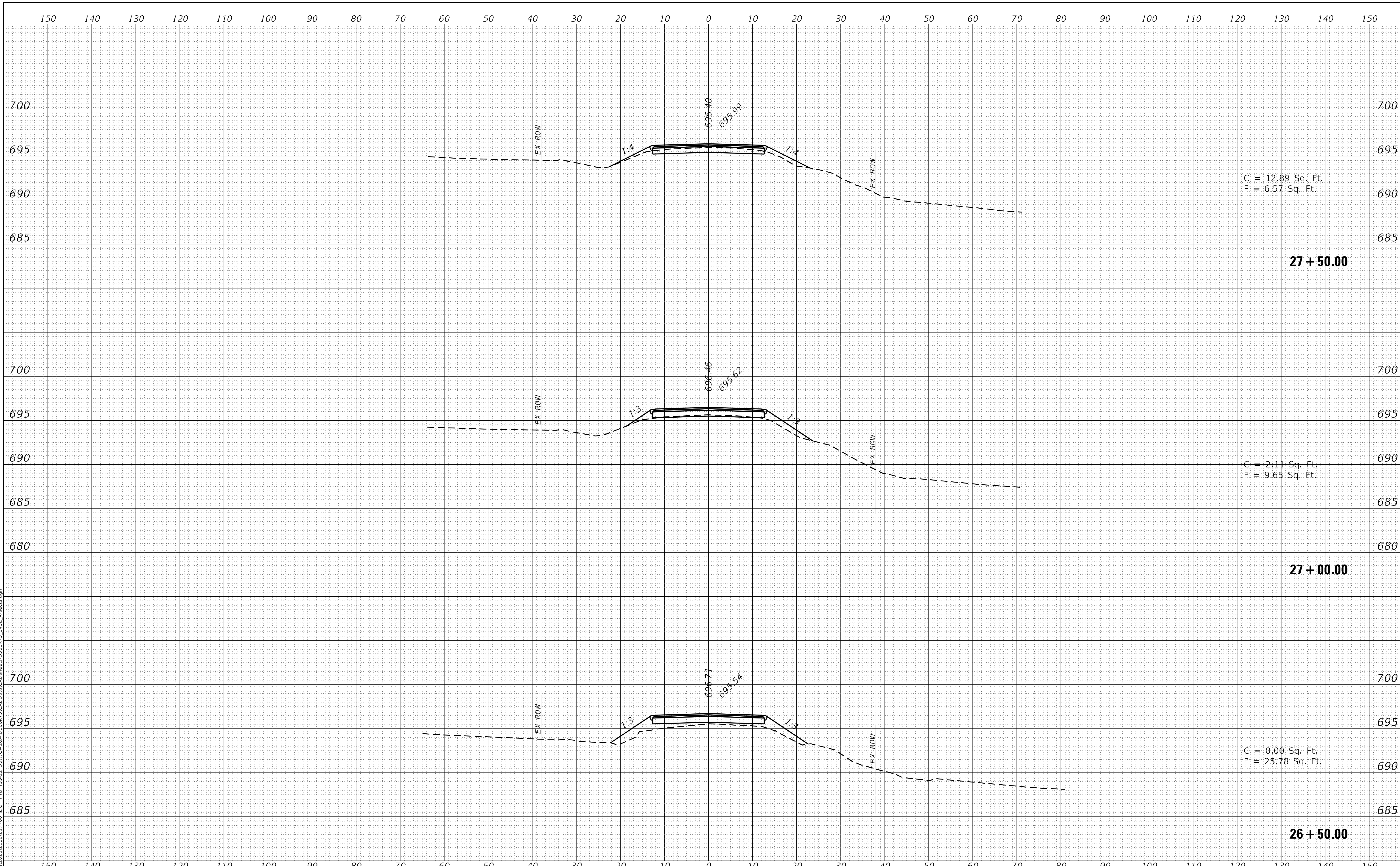
USER NAME = amonocchio	DESIGNED - AMM	REVISED -
	DRAWN - AMM	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 18 OF 21 SHEETS | STA. 25+50.00 TO STA. 26+09.60

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	198
		CONTRACT NO. 66K73		
	ILLINOIS	FED. AID PROJECT		



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DLZ	USER NAME = amonocchio	DESIGNED - AMM	REVISED -
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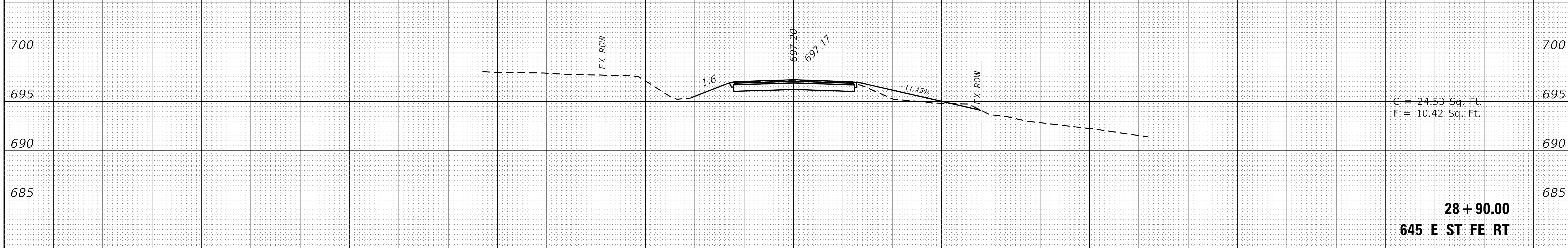
	PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

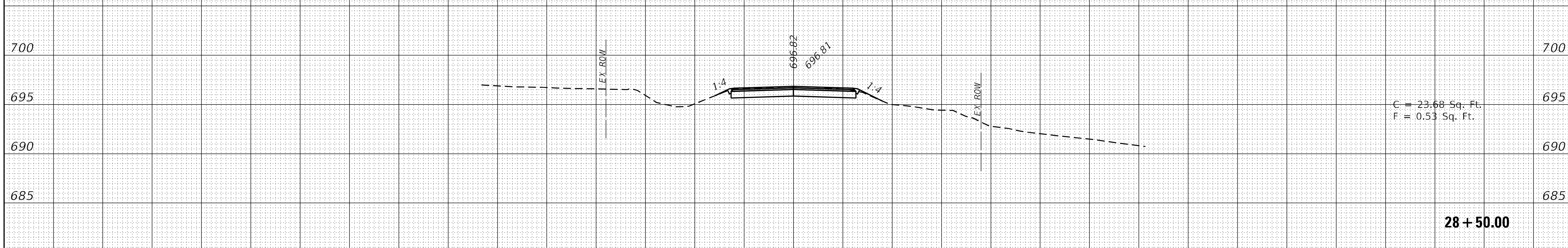
SCALE: 1" = 10' | SHEET 19 OF 21 SHEETS | STA. 26+50.00 TO STA. 27+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	199
		CONTRACT NO. 66K73		
		ILLINOIS	FED. AID PROJECT	

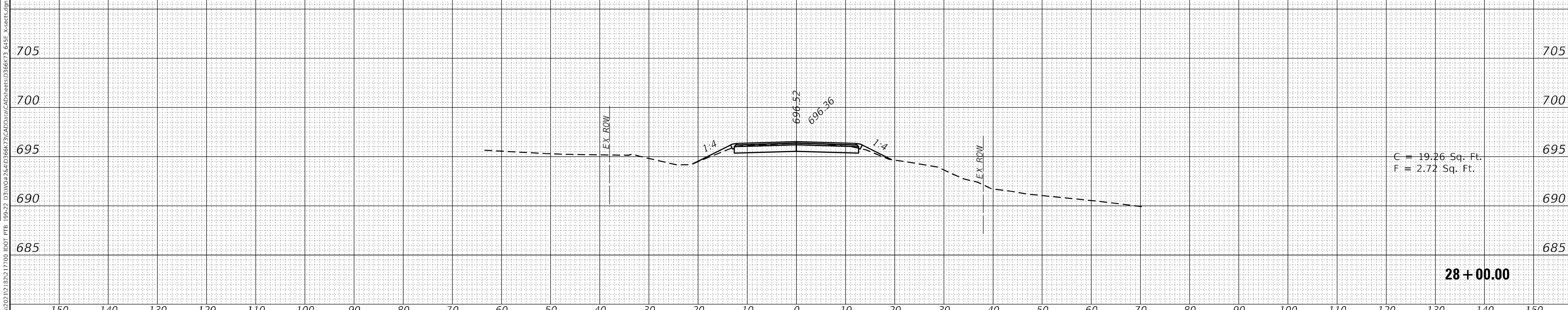


28 + 90.00

645 E ST FE RT



28 + 50.00



28 + 00.00

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

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

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	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 20 OF 21 SHEETS | STA. 28+00.00 TO STA. 28+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	200
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		

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

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

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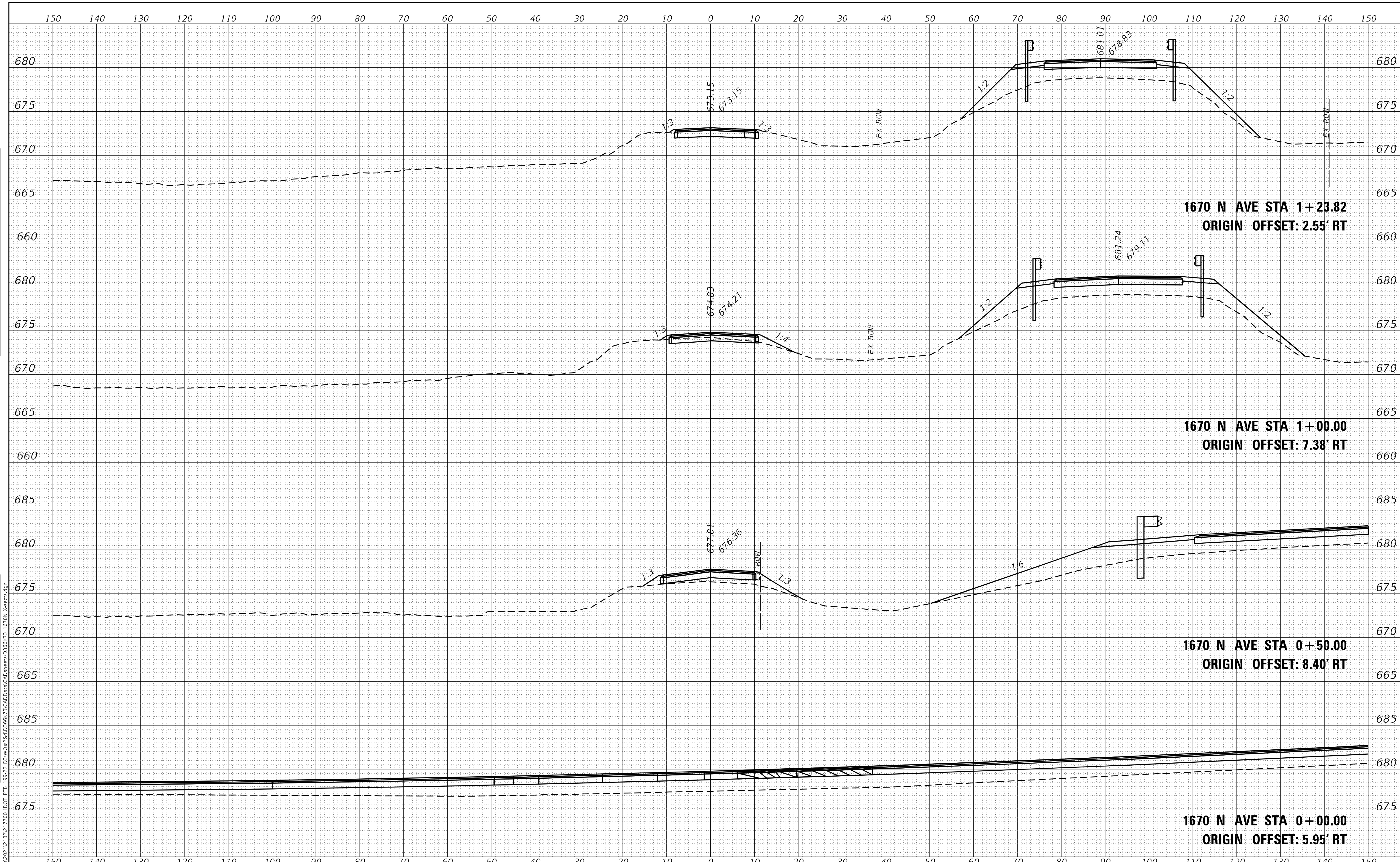
DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - AMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -	
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -	

645 E ST CROSS SECTIONS

SCALE: 1" = 10' | SHEET 21 OF 21 SHEETS | STA. 29+00.00 TO STA. 29+23.75 (POE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	201
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		



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

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

MODEL: Default
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DLZ

USER NAME = amonocchio	DESIGNED - AMM	REVISED -
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PLOT SCALE = 20.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/14/2022	DATE - 2/14/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1670 N AVE CROSS SECTIONS

SCALE: 1" = 10' | SHEET 1 OF 1 SHEETS | STA. 0+00.00 TO STA. 1+23.82

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-1HB-2 & 06-2HB)BR	BUREAU	202	202
		CONTRACT NO. 66K73		
		ILLINOIS FED. AID PROJECT		