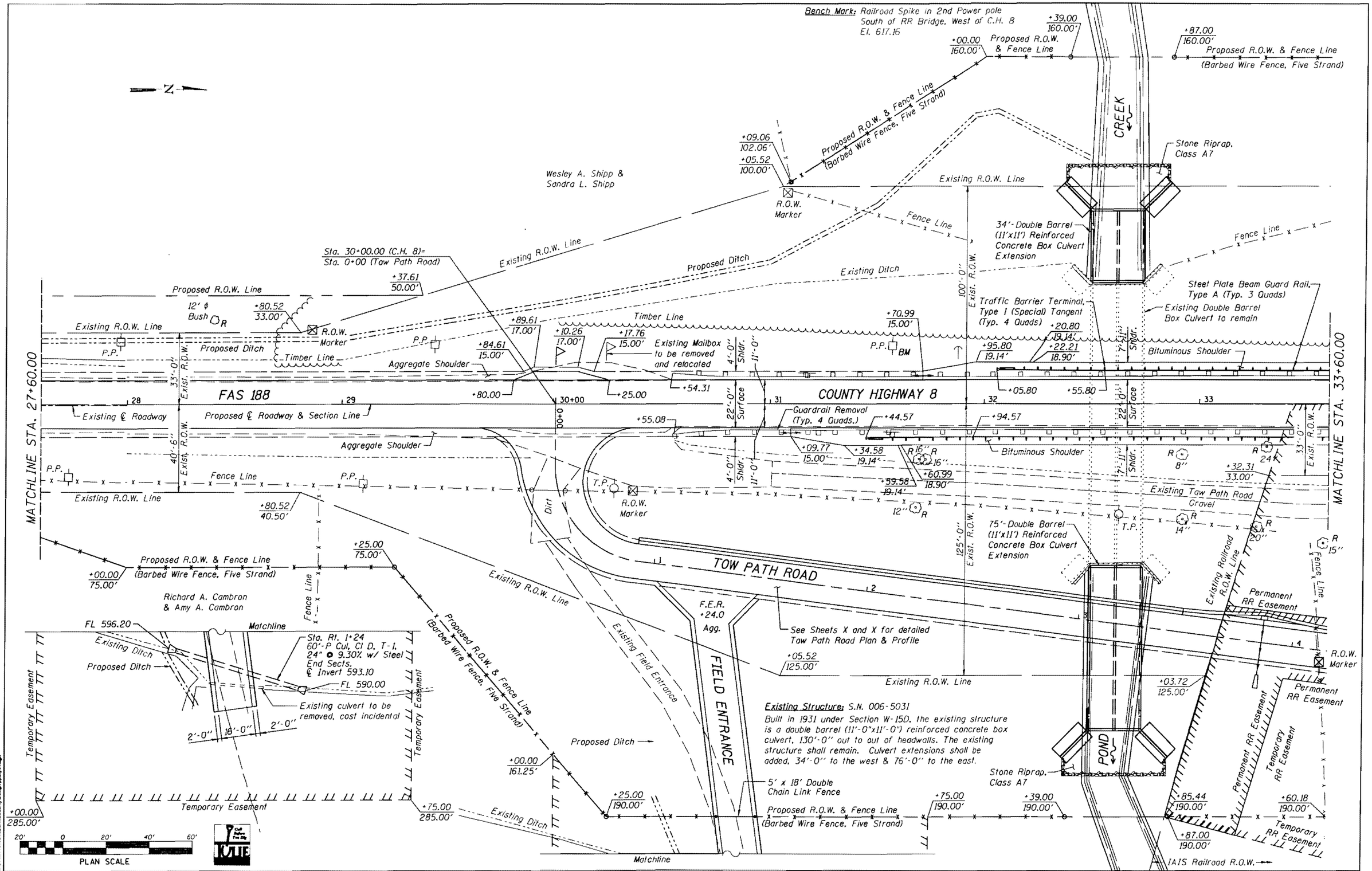

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	PLOTTED		PLOTTED
	ALIGNMENT CHECKED		GRADES CHECKED
	RT. OF WAY CHECKED		BRIDGE CHECKED
	CADD FILE NAME		STRUCTURE NOTATION CHKD
NOTE BOOK NO.		NOTE BOOK NO.	

BY | DATE

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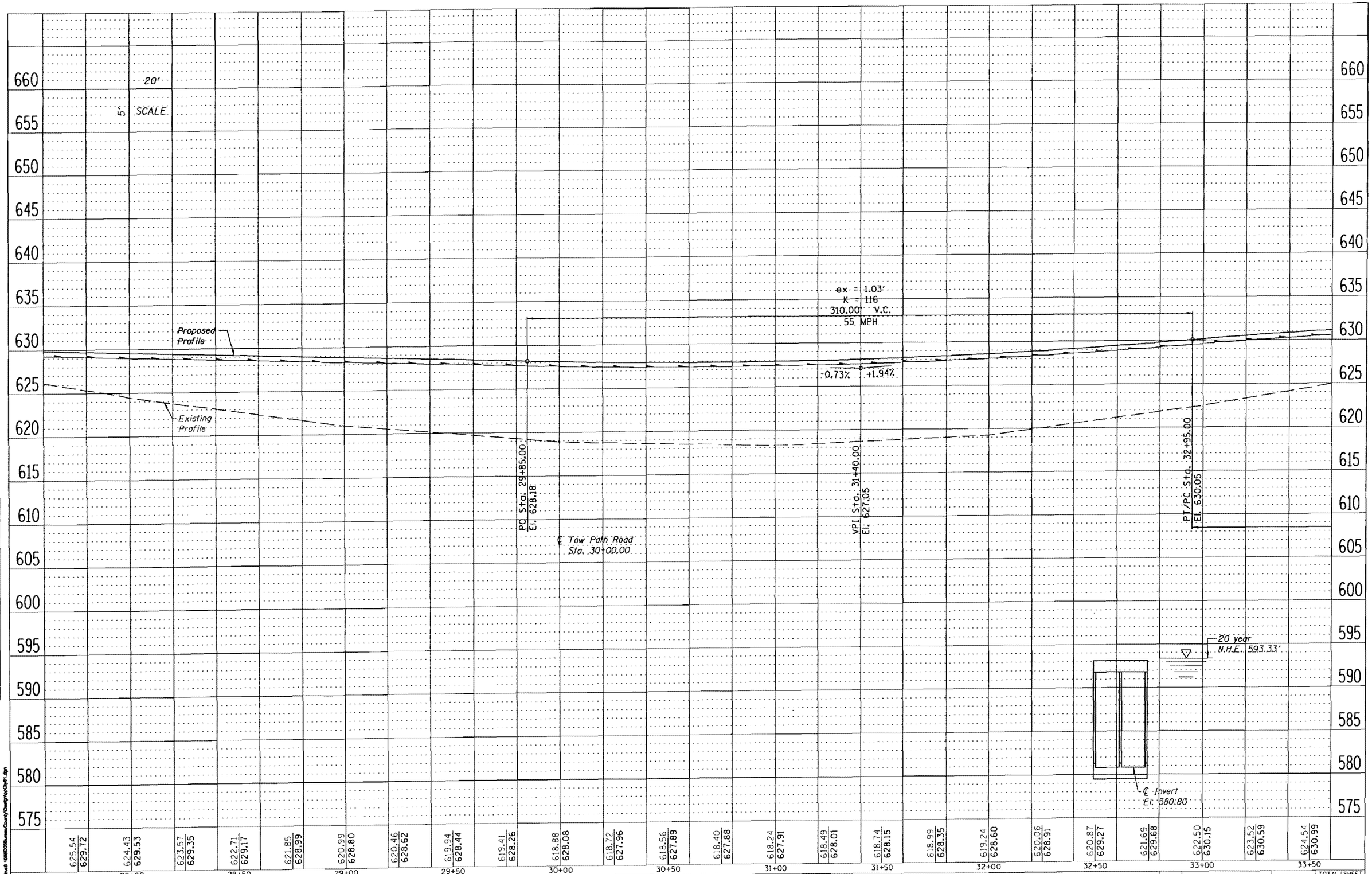
PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

C.H. 8 PLAN

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 27+60 TO STA. 33+60		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ---.....-..)		



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT OF WAY STAKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = c:\bhcad 108\8008\bureau county\bureaup\ch8p1.dgn

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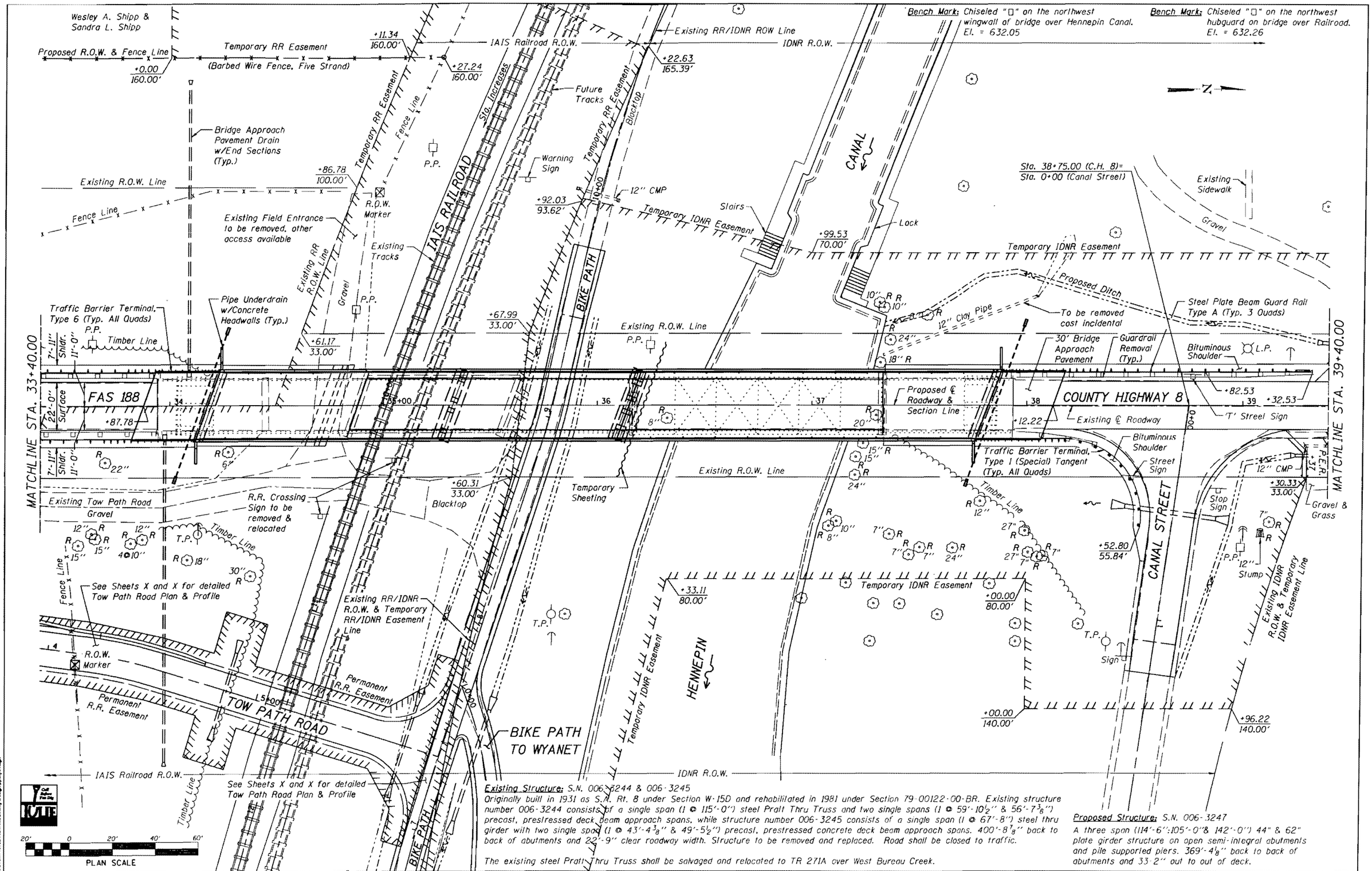
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER I.&S. RAILROAD & THE HENNEPIN CANAL

C.H. 8 PROFILE

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 27+60 TO STA. 33+60		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ---.....-.)		



Existing Structure: S.N. 006-3244 & 006-3245

Originally built in 1931 as S.A. Rt. 8 under Section W-15D and rehabilitated in 1981 under Section 79-00122-00-BR. Existing structure number 006-3244 consists of a single span (1 @ 115'-0") steel Pratt Thru Truss and two single spans (1 @ 59'-10½" & 56'-7⅜") precast, prestressed deck beam approach spans, while structure number 006-3245 consists of a single span (1 @ 67'-8") steel thru girder with two single span (1 @ 43'-4⅜" & 49'-5½") precast, prestressed concrete deck beam approach spans. 400'-8⅞" back to back of abutments and 22'-9" clear roadway width. Structure to be removed and replaced. Road shall be closed to traffic.

The existing steel Pratt Thru Truss shall be salvaged and relocated to TR 271A over West Bureau Creek.

Proposed Structure: S.N. 006-3247

A three span (114'-6":105'-0"& 142'-0") 44" & 62" plate girder structure on open semi-integral abutments and pile supported piers. 369'-4⅛" back to back of abutments and 33'-2" out to out of deck.

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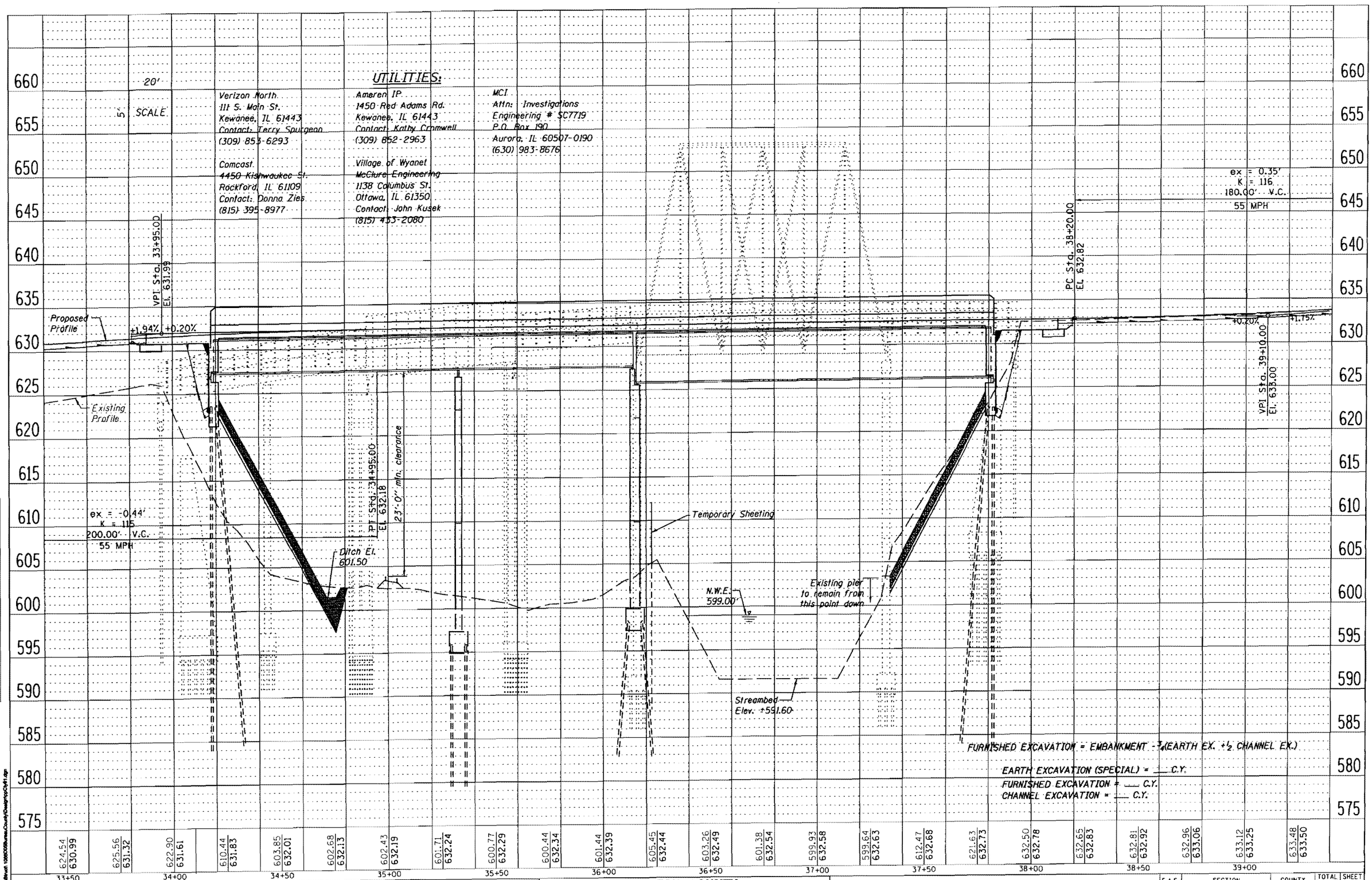
BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

C.H. 8 PLAN

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 33+40 TO STA. 39+40		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ----		



FURNISHED EXCAVATION = EMBANKMENT - ¾(EARTH EX. + ½ CHANNEL EX.)

EARTH EXCAVATION (SPECIAL) = ___ C.Y.
FURNISHED EXCAVATION = ___ C.Y.
CHANNEL EXCAVATION = ___ C.Y.

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / NOTE BOOK NO. ___ / CADD FILE NAME ___ / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK NO. ___ / STA. ___ TO STA. ___ / BY / DATE

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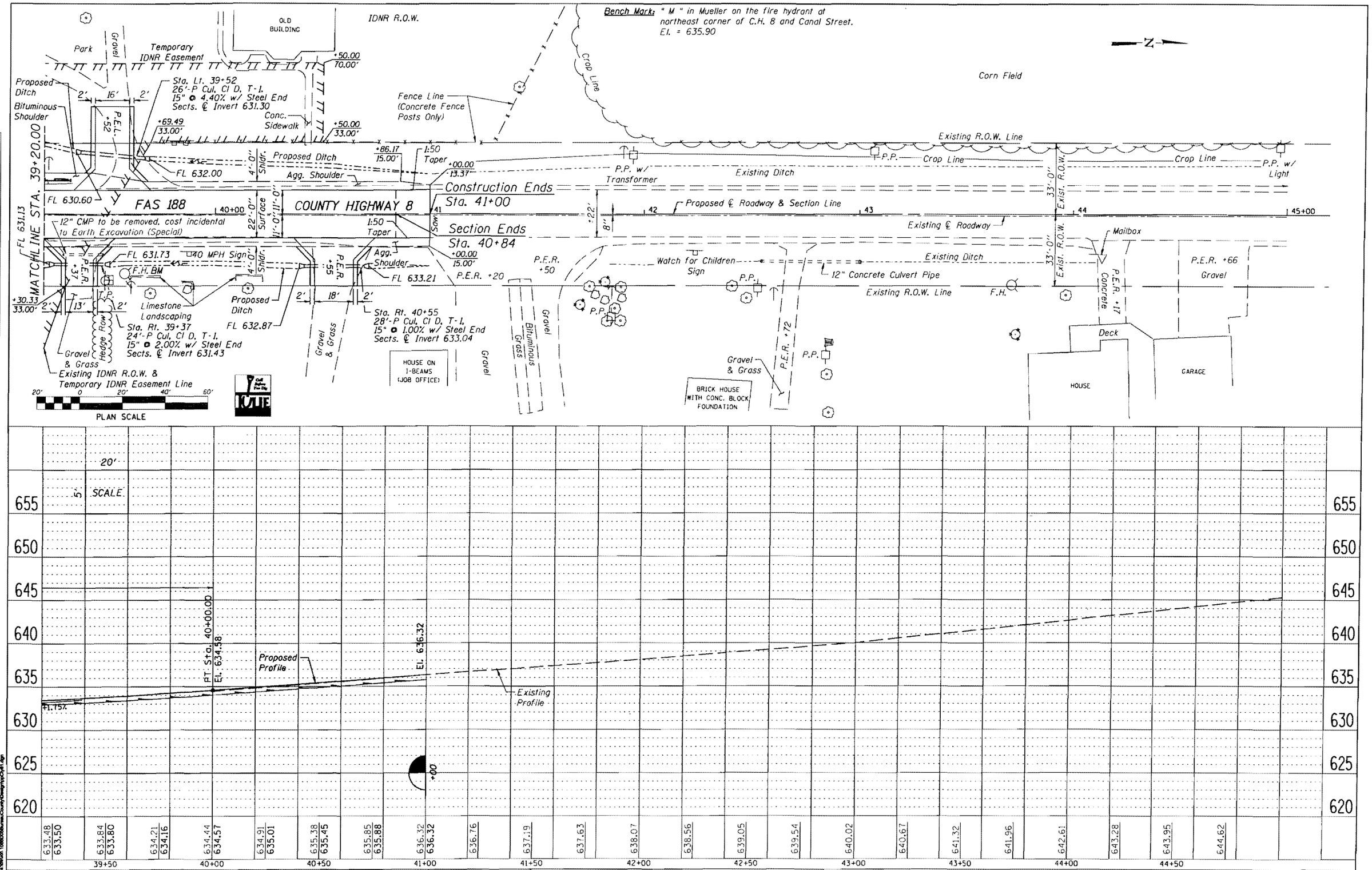
	DRAWN -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

C.H. 8 PROFILE

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 33+40 TO STA. 39+40		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ----------		



PLAN

DATE	BY

SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
BRIDGE CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
BRIDGE CHECKED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.

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PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

C.H. 8 PLAN & PROFILE

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 39+20 TO STA. 45+00		CONTRACT NO. -----		
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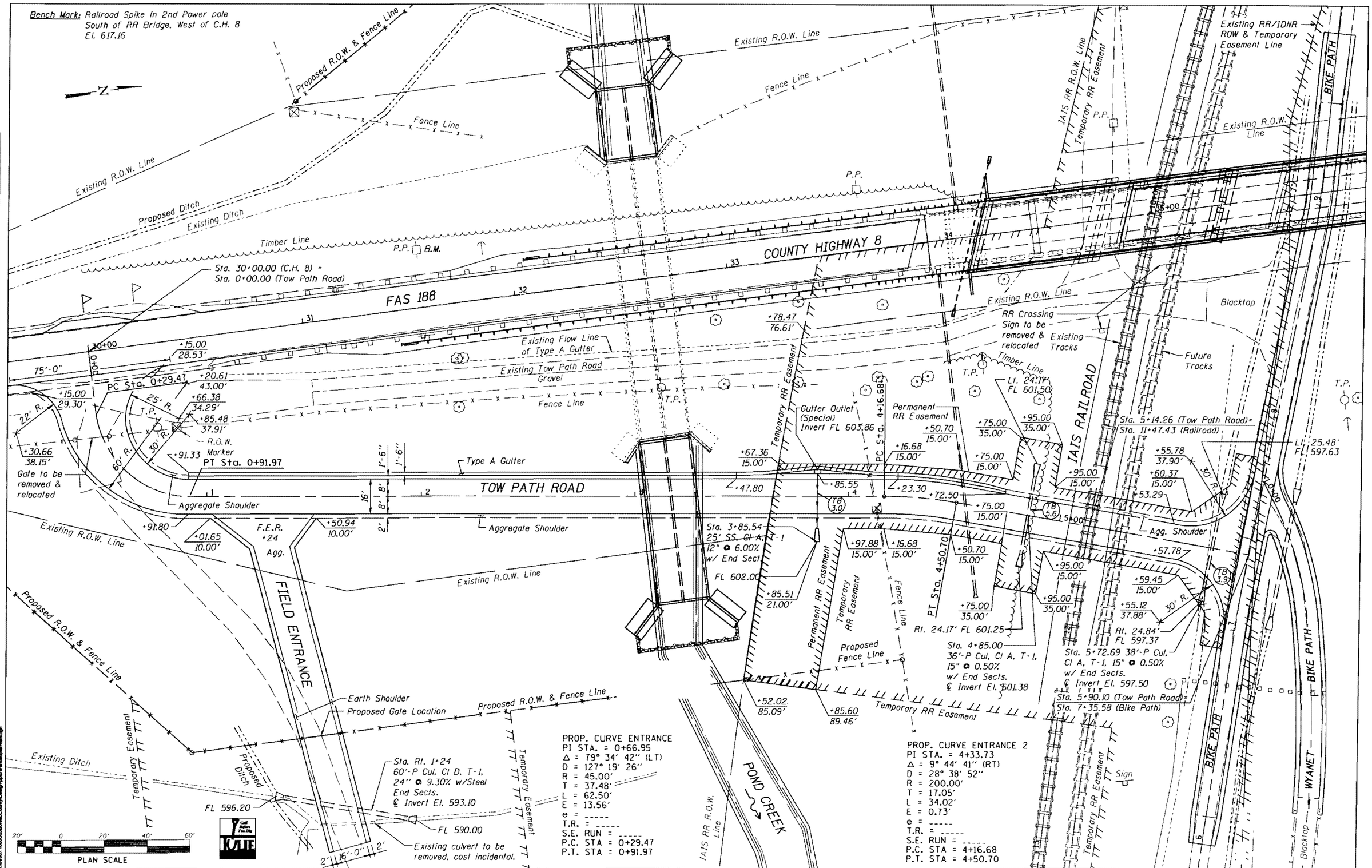

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PLOTTED		
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RT. OF WAY PROCED		
NOTE BOOK	CADD FILE NAME	
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PLOTTED		
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NOTE BOOK	STRUCTURE NOTATIONS GRID	
NO.		

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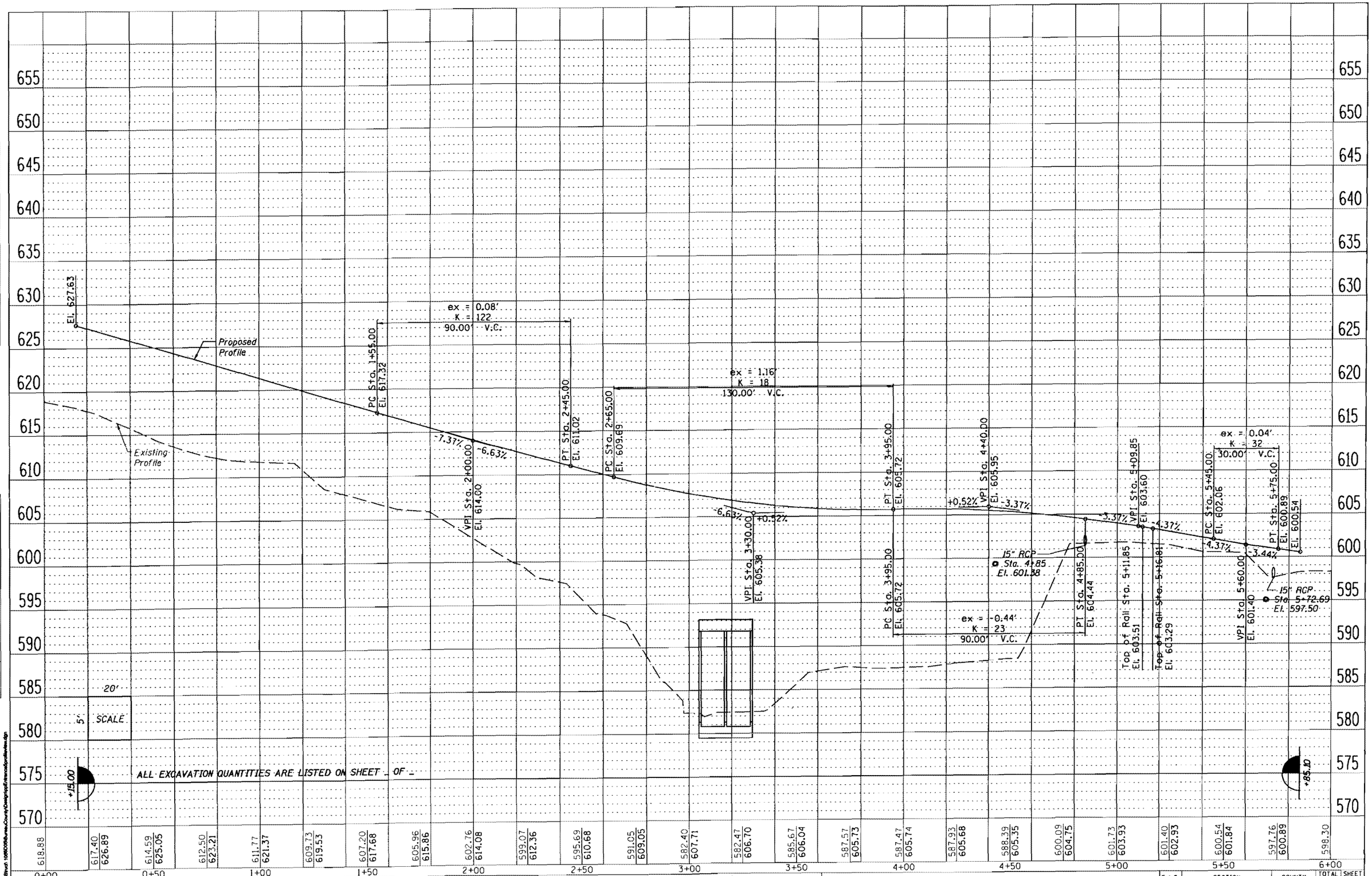
PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

TOW PATH ROAD – PLAN

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 0+00 TO STA. 5+75		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ...-.....-..-.		



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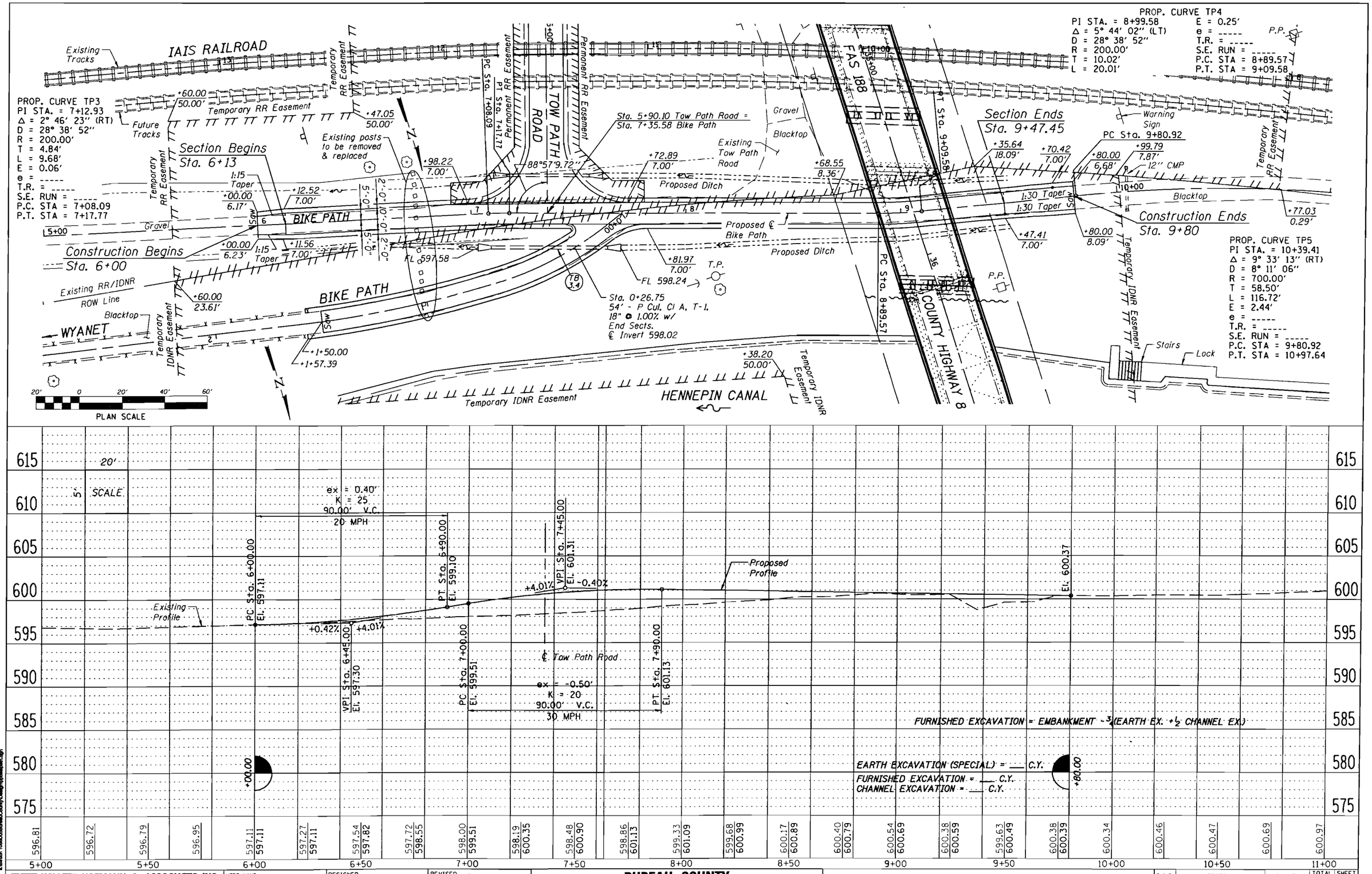
PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
COUNTY HIGHWAY 8
BRIDGE REPLACEMENT

TOW PATH ROAD – PROFILE

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 0+00 TO STA. 6+00		CONTRACT NO. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ...-...-..-..		



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RT. OF WAY CHECKED	
CADD FILE NAME	

NOTE BOOK NO. ____

DATE	BY

PROFILE

SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHKD	

NOTE BOOK NO. ____

DATE	BY

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PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

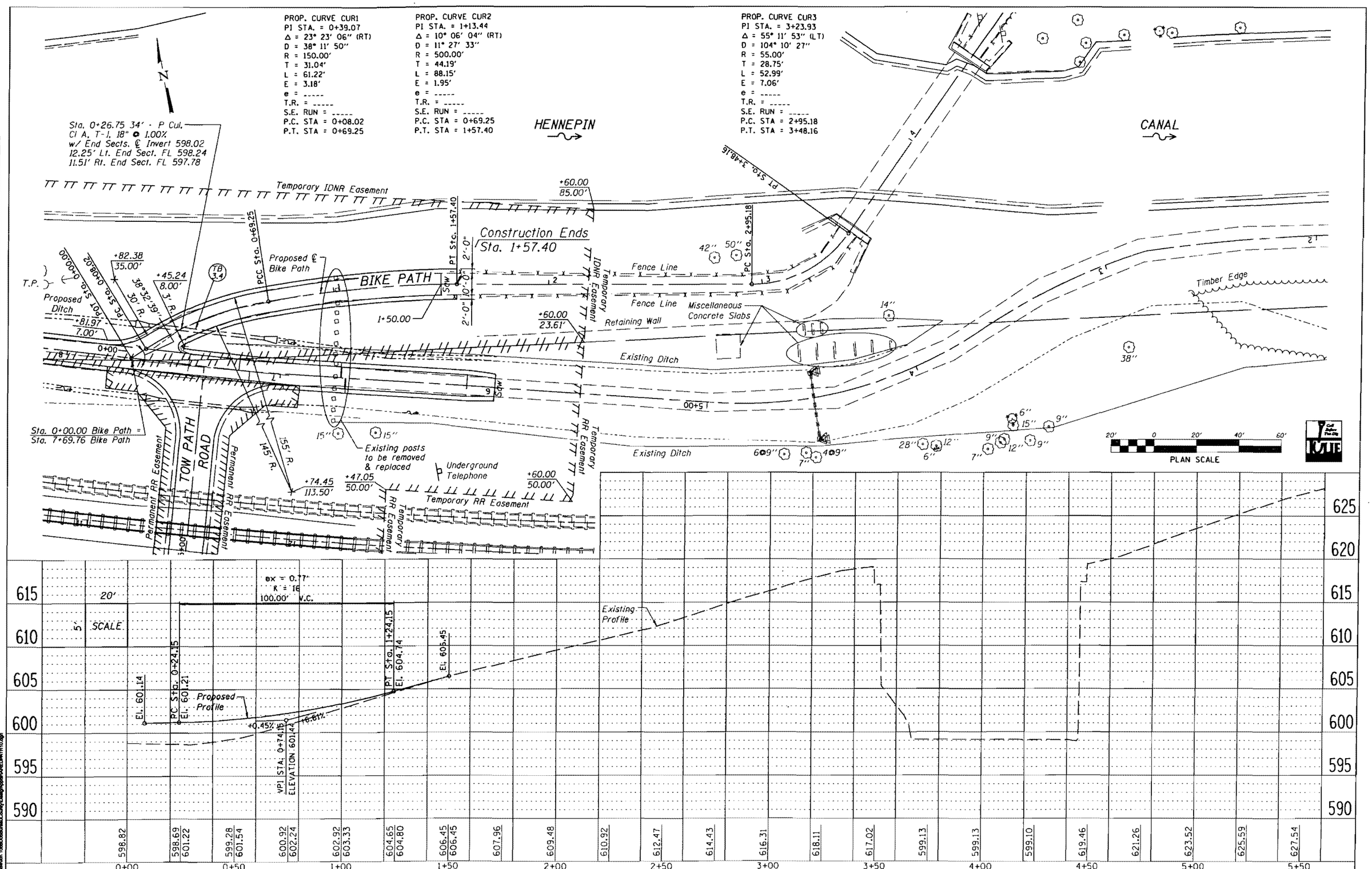
BIKE PATH – PLAN & PROFILE

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 5+00 TO STA. 11+00		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ---.....(..)		

PROP. CURVE CUR1
PI STA. = 0+39.07
Δ = 23° 23' 06" (RT)
D = 38° 11' 50"
R = 150.00'
T = 31.04'
L = 61.22'
E = 3.18'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 0+08.02
P.T. STA = 0+69.25

PROP. CURVE CUR2
PI STA. = 1+13.44
Δ = 10° 06' 04" (RT)
D = 11° 27' 33"
R = 500.00'
T = 44.19'
L = 88.15'
E = 1.95'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 0+69.25
P.T. STA = 1+57.40

PROP. CURVE CUR3
PI STA. = 3+23.93
Δ = 55° 11' 53" (LT)
D = 104° 10' 27"
R = 55.00'
T = 28.75'
L = 52.99'
E = 7.06'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 2+95.18
P.T. STA = 3+48.16



PLAN

NOTE BOOK NO.	SURVEYED	PLOTTED	ALIGNMENT CHECKED	CADD FILE NAME	BY	DATE

PROFILE

NOTE BOOK NO.	SURVEYED	PLOTTED	GRADES CHECKED	STRUCTURE NOTAT'NS CH'KD	BY	DATE

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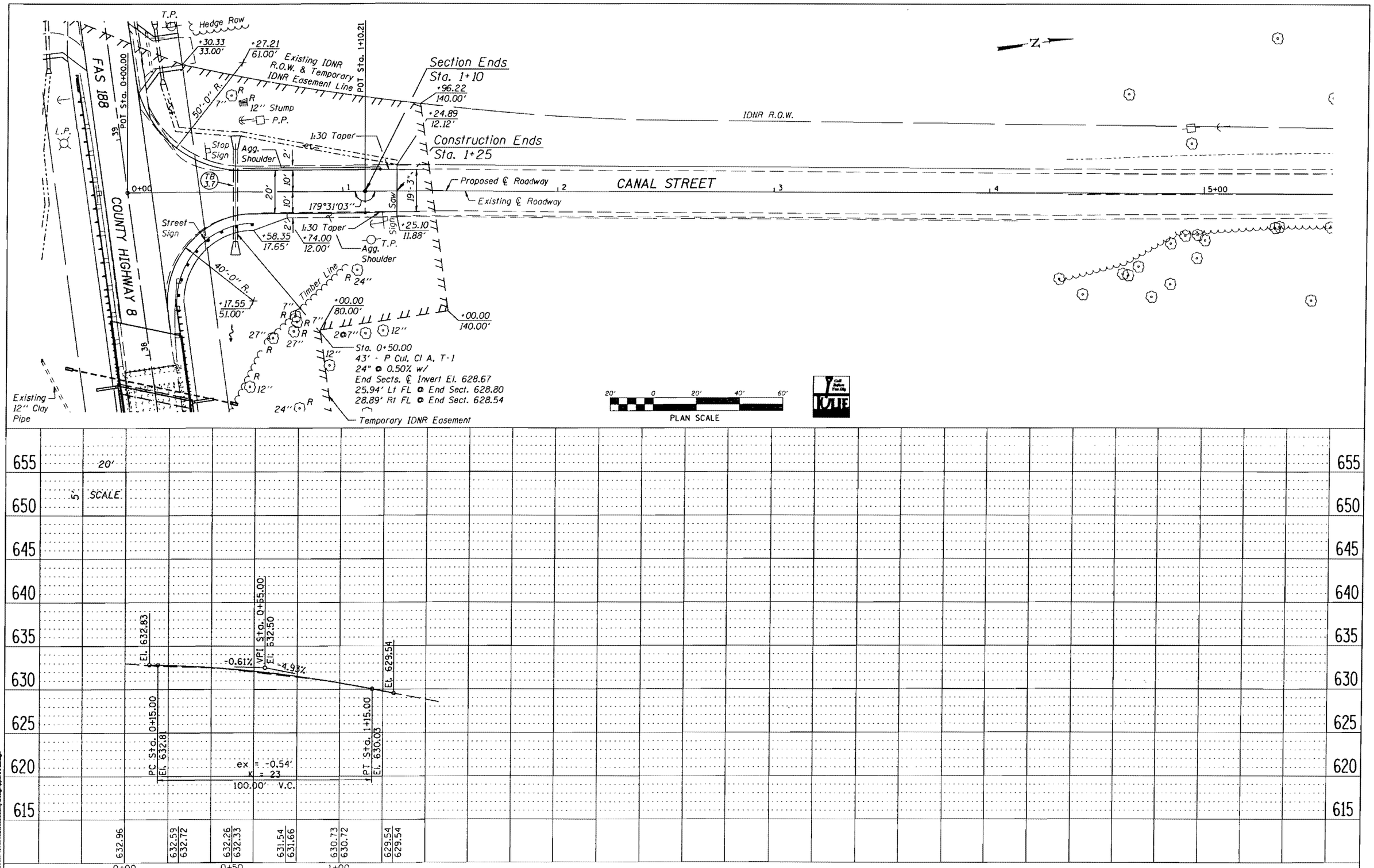
PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

SHARED USE PATH

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 0+00 TO STA. 5+75		CONTRACT NO. -----		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT ...-...(..)		



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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

BUREAU COUNTY
BRIDGE REPLACEMENT
FAS 188 (C.H. 8) OVER IAIS RAILROAD & THE HENNEPIN CANAL

CANAL STREET

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
STA. 0+00 TO STA. 5+75		CONTRACT NO. -----		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT ...-...-(..)		

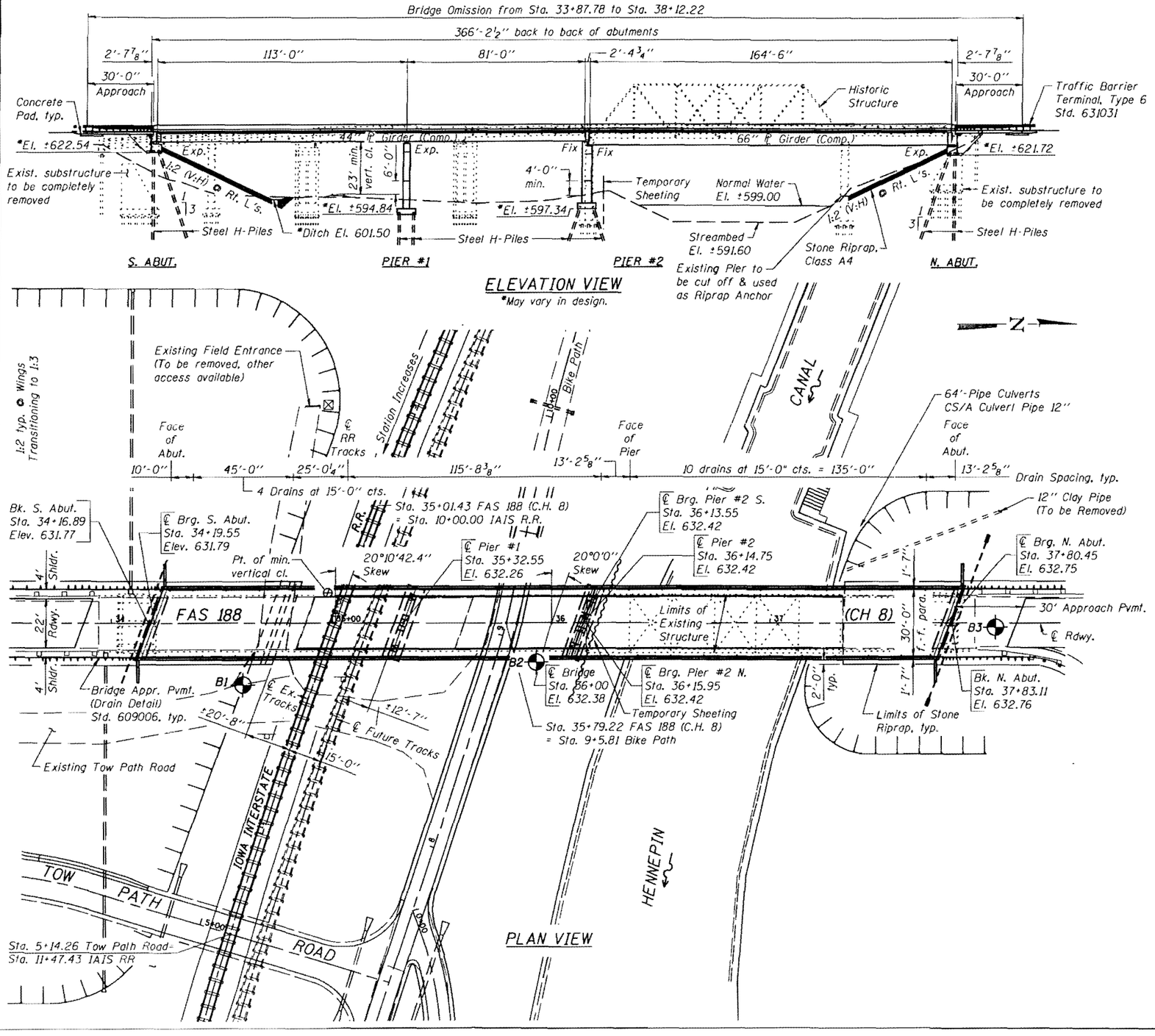
EXISTING STRUCTURES: S.N. 006-3244 & 006-3245

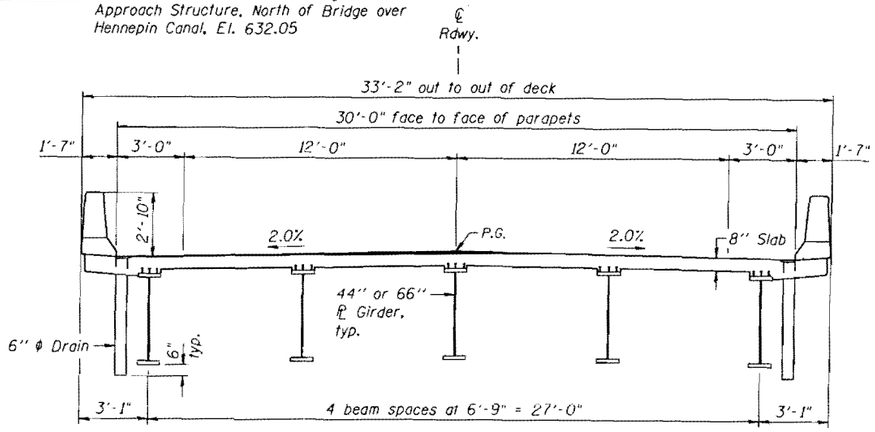
Originally built in 1931 as S.A. Rt. 8 under Sections W, W-B, W-B-2, W-C & W-V, 15D and rehabilitated in 1981 under Section 79-00122-00-BR. Existing structure number 006-3244 consists of a single span (1 @ 115'-0") steel Pratt Thru Truss and two single span (1 @ 59'-10½" & 56'-7⅜") precast, prestressed deck beam approach spans, while structure number 006-3245 consists of a single span (1 @ 67'-8") steel thru girder with two single span (1 @ 43'-4⅜" & 49'-5½") precast, prestressed concrete deck beam approach spans. 400'-8⅞" back to back of abutments and 22'-9" clear roadway width. Structure to be removed and replaced. Road shall be closed to traffic.

The existing steel Pratt Thru Truss shall be salvaged and relocated to TR 271A over West Bureau Creek.

Bench Mark: Chis. "□" on the Northwest Hubguard on Bridge over Railroad. El. 632.26

Bench Mark: Chis. "□" on the Northwest Wingwall of Approach Structure, North of Bridge over Hennepin Canal. El. 632.05





SECTION THRU DECK

(Note: Non-Composite over Pier #1)

HIGHWAY CLASSIFICATION

F.A.S. Rte. 188 (C.H. 8)
Functional Class: Major Collector (Non-Urban)
ADT: 1,115 (2010) 1,500 (2030) 1.5% Growth
ADTT: 112 (2010) 150 (2030) Assuming 7% SU & 3% MU
DHV: 150 (2030) 10% of ADT
Speed: 55 mph (posted): 55 mph (design)
2-Way Traffic Directional Dist. 50:50

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

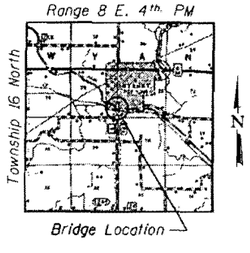
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
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. (S) = 0.045g
Design Spectral Acceleration at 0.2 sec. (S) = 0.11g
Soil Site Class = B



LOCATION SKETCH

TYPE, SIZE & LOCATION
C.H. 8 OVER IOWA INTERSTATE RAILROAD
& THE HENNEPIN CANAL
F.A.S. RTE. 188 - SEC. 05-00195-00-BR
BUREAU COUNTY
STATION 36+00
S.N. 006-3247

WHA JOB NUMBER 1066D05

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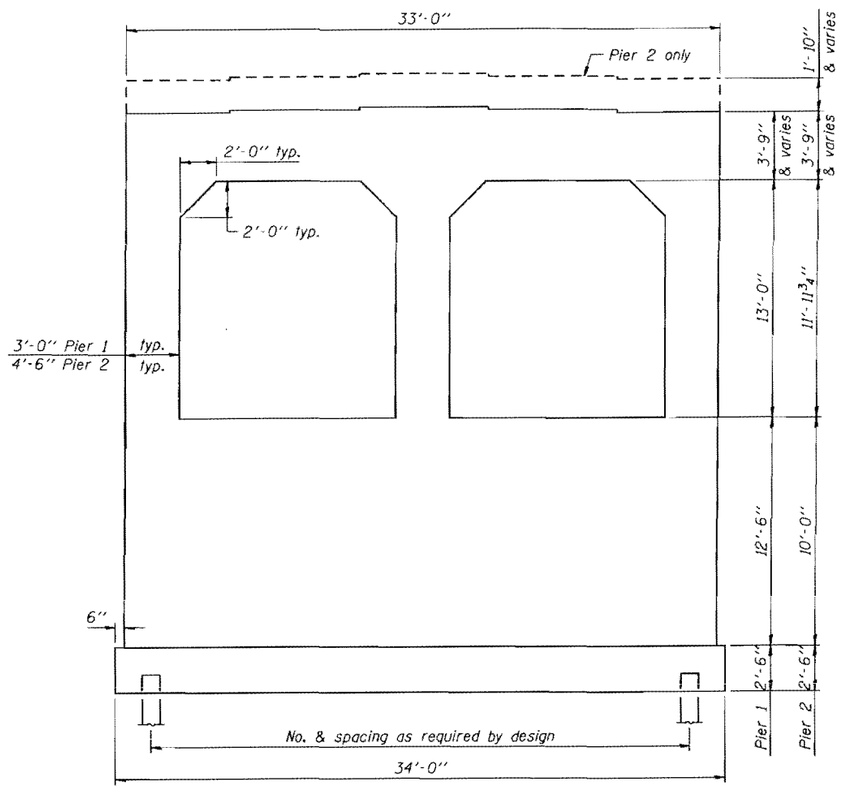
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3365
Design Firm #184-000918
www.willetthofmann.com

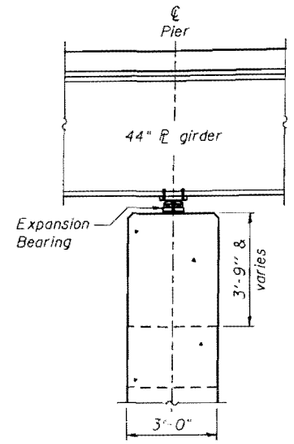
Designed By: B. K. Converse
Date: 4/09
Checked By: M. A. Small
Date: 4/09
Drawn By: R. D. Allen
Date: 4/09

STRUCTURAL SHEET NO. 1 OF 2 SHEETS

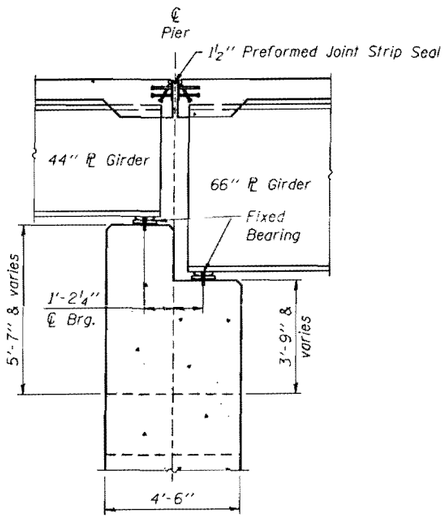
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
		CONTRACT NO. ____		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT ----------		



PIER SKETCH
(Looking North)
*Dimensions may vary in design



SECTION THRU PIER #1
(@ Right Angles)



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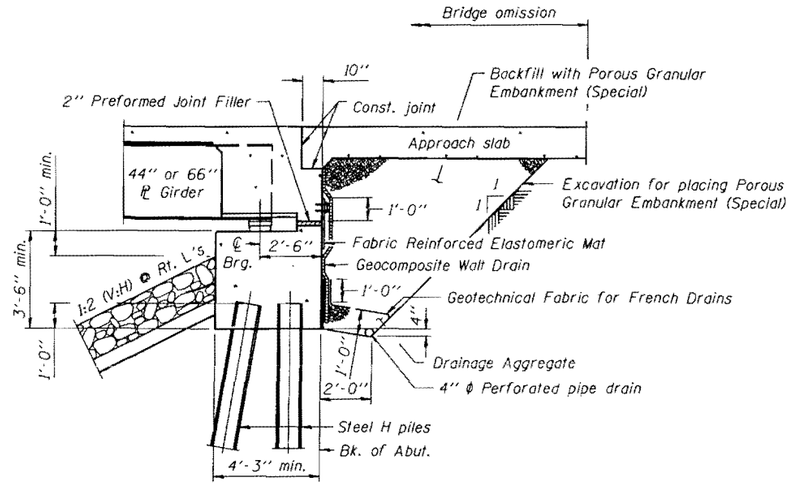
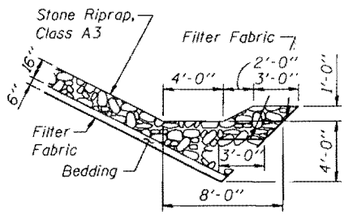
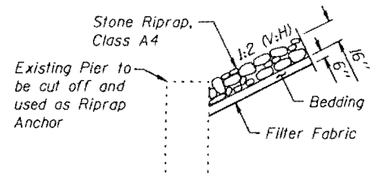


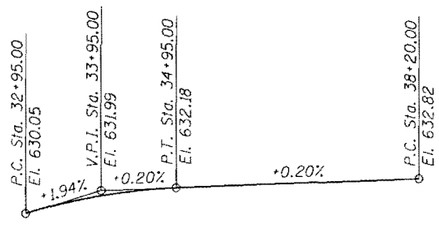
SECTION THRU SEMI-INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



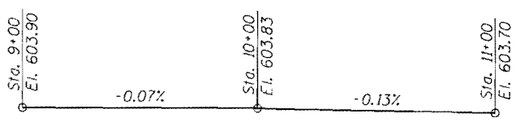
RIPRAP ANCHOR DETAIL
(S. Abut.)



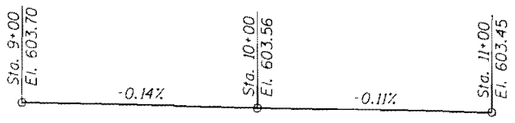
RIPRAP ANCHOR DETAIL
(N. Abut.)



PROFILE GRADE
(Along ℄ Roadway)



TOP OF S. RAIL ELEVATIONS



TOP OF N. RAIL ELEVATIONS

TYPE, SIZE & LOCATION
C.H. 8 OVER IOWA INTERSTATE RAILROAD
& THE HENNEPIN CANAL
F.A.S. RTE. 188 - SEC. 05-00195-00-BR
BUREAU COUNTY
STATION 36+00
S.N. 006-3247

WHA JOB NUMBER	WILLETT, HOFMANN & ASSOCIATES, INC. CONSULTING ENGINEERS	Designed By: B. K. Converse Date: 4/09
1066D05	Land Surveying - Transportation - Structural Environmental - Architecture	Checked By: M. A. Small Date: 4/09
	809 East Second Street Dixon, Illinois 61021 Phone 815.284.3381 Fax 815.284.3385 Design Firm #184-000918 www.willetthofmann.com	Drawn By: R. D. Allen Date: 4/09

STRUCTURAL SHEET NO. 2 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
188	05-00195-00-BR	BUREAU	--	-
		CONTRACT NO. -----		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT ---(--)		

EXHIBIT 3

ICC Cost Estimate
Requesting Aid from
Grade Crossing Protection Fund

ICC Cost Estimate Breakdown

C.H. 8 Portion of Project Only

ICC Eligible Limits of C.H. 8

Sta. 29+85 to South Abutment of Bridge, Span #1 of Bridge & North Abutment of Bridge to Sta. 38+12.22

Construction Cost Breakdown

No.	Item	Unit	Unit Price	Eligible Cost		Ineligible Cost		Total Cost	
				Quantity	Price	Quantity	Price	Quantity	Price
1	Tree Removal, Acres	Acre	$ 3,000.00	4	$ 12,000.00	3	$ 9,000.00	7	$ 21,000.00
2	Earth Excavation	Cu. Yd.	$ 15.00	512	$ 7,680.00	1,988	$ 29,820.00	2,500	$ 37,500.00
3	Channel Excavation	Cu. Yd.	$ 30.00	0	$ 0.00	135	$ 4,050.00	135	$ 4,050.00
4	Furnished Excavation	Cu. Yd.	$ 10.00	55,559	$ 555,590.00	1,941	$ 19,410.00	57,500	$ 575,000.00
5	Porous Granular Embankment	Cu. Yd.	$ 40.00	345	$ 13,800.00	0	$ 0.00	345	$ 13,800.00
6	Porous Granular Embankment, Special	Cu. Yd.	$ 20.00	84	$ 1,680.00	91	$ 1,820.00	175	$ 3,500.00
7	Seeding, Class 3 (Special)	Acre	$ 1,000.00	4	$ 4,000.00	3	$ 3,000.00	7	$ 7,000.00
8	Erosion Control Blanket	Sq. Yd.	$ 2.00	19,360	$ 38,720.00	14,640	$ 29,280.00	34,000	$ 68,000.00
9	Temporary Erosion Control Seeding	Pound	$ 3.00	400	$ 1,200.00	300	$ 900.00	700	$ 2,100.00
10	Temporary Ditch Checks	Each	$ 200.00	12	$ 2,400.00	13	$ 2,600.00	25	$ 5,000.00
11	Perimeter Erosion Barrier	Foot	$ 3.00	950	$ 2,850.00	2,150	$ 6,450.00	3,100	$ 9,300.00
12	Inlet and Pipe Protection	Each	$ 150.00	1	$ 150.00	0	$ 0.00	1	$ 150.00
13	Stone Riprap, Class A3	Sq. Yd.	$ 40.00	215	$ 8,600.00	0	$ 0.00	215	$ 8,600.00
14	Stone Riprap, Class A4	Sq. Yd.	$ 60.00	0	$ 0.00	220	$ 13,200.00	220	$ 13,200.00
15	Stone Riprap, Class A7	Sq. Yd.	$ 150.00	95	$ 14,250.00	0	$ 0.00	95	$ 14,250.00
16	Filter Fabric	Sq. Yd.	$ 3.00	310	$ 930.00	220	$ 660.00	530	$ 1,590.00
17	Sub-Base Granular Material, Type B	Ton	$ 25.00	946	$ 23,650.00	1,679	$ 41,975.00	2,625	$ 65,625.00
18	Aggregate Base Course, Type A	Ton	$ 20.00	473	$ 9,460.00	842	$ 16,840.00	1,315	$ 26,300.00
19	Aggregate Surface Course, Type B	Ton	$ 25.00	142	$ 3,550.00	153	$ 3,825.00	295	$ 7,375.00
20	Bituminous Materials (Prime Coat)	Gallon	$ 3.00	714	$ 2,142.00	1,266	$ 3,798.00	1,980	$ 5,940.00
21	Hot-Mix Asphalt Surface Removal - Butt Joint	Sq. Yd.	$ 20.00	0	$ 0.00	270	$ 5,400.00	270	$ 5,400.00
22	Hot-Mix Asphalt Binder Course	Ton	$ 75.00	210	$ 15,750.00	530	$ 39,750.00	740	$ 55,500.00
23	Hot-Mix Asphalt Surface Course	Ton	$ 90.00	343	$ 30,870.00	607	$ 54,630.00	950	$ 85,500.00
24	Bridge Approach Pavement	Sq. Yd.	$ 200.00	210	$ 42,000.00	0	$ 0.00	210	$ 42,000.00
25	Aggregate Shoulders, Type B	Ton	$ 40.00	104	$ 4,160.00	271	$ 10,840.00	375	$ 15,000.00
26	Hot-Mix Asphalt Shoulders	Ton	$ 90.00	215	$ 19,350.00	100	$ 9,000.00	315	$ 28,350.00
27	Removal of Existing Structures	Each	$ 50,000.00	0.18	$ 9,000.00	0.82	$ 41,000.00	1	$ 50,000.00

28	Concrete Removal	Cu. Yd.	$	2,500.00	3	$	7,500.00	0	$	0.00	3	$ 7,500.00
29	Pipe Culvert Removal	Foot	$	10.00	50	$	500.00	108	$	1,080.00	158	$ 1,580.00
30	Structure Excavation	Cu. Yd.	$	10.00	114	$	1,140.00	141	$	1,410.00	255	$ 2,550.00
31	Floor Drains	Each	$	250.00	8	$	2,000.00	20	$	5,000.00	28	$ 7,000.00
32	Concrete Structures	Cu. Yd.	$	750.00	120	$	90,000.00	165	$	123,750.00	285	$ 213,750.00
33	Concrete Superstructure	Cu. Yd.	$	800.00	153	$	122,400.00	322	$	257,600.00	475	$ 380,000.00
34	Bridge Deck Grooving	Sq. Yd.	$	7.00	358	$	2,506.00	776	$	5,432.00	1,134	$ 7,938.00
35	Protective Coat	Sq. Yd.	$	3.00	685	$	2,055.00	1,040	$	3,120.00	1,725	$ 5,175.00
36	Furnishing & Erecting Structural Steel	L. Sum	$	1,060,000.00	0.29	$	307,400.00	0.71	$	752,600.00	1	$ 1,060,000.00
37	Stud Shear Connectors	Each	$	6.00	1,125	$	6,750.00	3,375	$	20,250.00	4,500	$ 27,000.00
38	Reinforcement Bars, Epoxy Coated	Pound	$	1.50	103,485	$	155,227.50	90,515	$	135,772.50	194,000	$ 291,000.00
39	Bar Splicers	Each	$	20.00	31	$	620.00	31	$	620.00	62	$ 1,240.00
40	Furnishing Piles	Foot	$	40.00	1,740	$	69,600.00	2,260	$	90,400.00	4,000	$ 160,000.00
41	Driving Piles	Foot	$	1.00	1,740	$	1,740.00	2,260	$	2,260.00	4,000	$ 4,000.00
42	Test Pile	Each	$	5,000.00	2	$	10,000.00	2	$	10,000.00	4	$ 20,000.00
43	Temporary Sheet Piling	Sq. Ft.	$	15.00	1,320	$	19,800.00	0	$	0.00	1,320	$ 19,800.00
44	Name Plates	Each	$	300.00	1	$	300.00	1	$	300.00	2	$ 600.00
45	Preformed Joint Strip Seal	Foot	$	200.00	0	$	0.00	34	$	6,800.00	34	$ 6,800.00
46	Elastomeric Bearings Assembly, Type II	Each	$	2,500.00	5	$	12,500.00	5	$	12,500.00	10	$ 25,000.00
47	Anchor Bolts	Each	$	100.00	10	$	1,000.00	20	$	2,000.00	30	$ 3,000.00
48	Concrete Box Culverts	Cu. Yd.	$	850.00	285	$	242,250.00	0	$	0.00	285	$ 242,250.00
49	Pipe Culverts, Type 1, CS/A Culvert Pipe 12"	Foot	$	40.00	18	$	720.00	46	$	1,840.00	64	$ 2,560.00
50	Pipe Culverts, Type 1, CS/A Culvert Pipe 15"	Foot	$	50.00	0	$	0.00	208	$	10,400.00	208	$ 10,400.00
51	Pipe Culverts, Type 1, CS/A Culvert Pipe 24"	Foot	$	60.00	54	$	3,240.00	48	$	2,880.00	102	$ 6,120.00
52	Pipe Culverts, Type 1, CS/A Culvert Pipe 30"	Foot	$	100.00	0	$	0.00	54	$	5,400.00	54	$ 5,400.00
53	Steel End Sections 12"	Each	$	150.00	2	$	300.00	3	$	450.00	5	$ 750.00
54	Steel End Sections 15"	Each	$	200.00	0	$	0.00	12	$	2,400.00	12	$ 2,400.00
55	Steel End Sections 24"	Each	$	350.00	2	$	700.00	2	$	700.00	4	$ 1,400.00
56	Steel End Sections 30"	Each	$	450.00	0	$	0.00	2	$	900.00	2	$ 900.00
57	Epoxy Crack Injection	Foot	$	50.00	90	$	4,500.00	0	$	0.00	90	$ 4,500.00
58	Geocomposite Wall Drain	Sq. Yd.	$	20.00	36	$	720.00	39	$	780.00	75	$ 1,500.00
59	Concrete Headwall for Pipe Drains	Each	$	300.00	2	$	600.00	2	$	600.00	4	$ 1,200.00
60	Pipe Drains 12"	Foot	$	25.00	310	$	7,750.00	0	$	0.00	310	$ 7,750.00
61	Pipe Underdrains 6"	Foot	$	15.00	807	$	12,105.00	1,593	$	23,895.00	2,400	$ 36,000.00
62	Pipe Underdrains for Structures 4"	Foot	$	15.00	116	$	1,740.00	116	$	1,740.00	232	$ 3,480.00
63	Inlets, Special	Each	$	2,500.00	1	$	2,500.00	0	$	0.00	1	$ 2,500.00
64	Concrete Gutter, Type A	Foot	$	35.00	385	$	13,475.00	0	$	0.00	385	$ 13,475.00

65	Type D Inlet Box, Standard 609006	Each	$	2,000.00	2	$	4,000.00	0	$	0.00	2	$ 4,000.00
66	Concrete Thrust Blocks	Each	$	200.00	4	$	800.00	0	$	0.00	4	$ 800.00
67	Steel Plate Beam Guard Rail, Type A	Foot	$	25.00	300	$	7,500.00	50	$	1,250.00	350	$ 8,750.00
68	Traffic Barrier Terminal, Type 6	Each	$	3,000.00	4	$	12,000.00	0	$	0.00	4	$ 12,000.00
69	Traffic Barrier Terminal, Type 1, (Special) Tan.	Each	$	3,000.00	2	$	6,000.00	2	$	6,000.00	4	$ 12,000.00
70	Guardrail Removal	Foot	$	10.00	680	$	6,800.00	180	$	1,800.00	860	$ 8,600.00
71	Barbed Wire Fence, Five Strand	Foot	$	10.00	626	$	6,260.00	429	$	4,290.00	1,055	$ 10,550.00
72	Furnishing and Erecting ROW Markers	Each	$	150.00	4	$	600.00	9	$	1,350.00	13	$ 1,950.00
73	Mobilization	L. Sum	$	15,000.00	1	$	15,000.00	0	$	0.00	1	$ 15,000.00
74	Traffic Control and Protection	L. Sum	$	10,000.00	1	$	10,000.00	0	$	0.00	1	$ 10,000.00
75	Paint Pavement Marking - Line 4"	Foot	$	1.00	1,305	$	1,305.00	2,295	$	2,295.00	3,600	$ 3,600.00
76	Guardrail Markers, Type A	Each	$	10.00	20	$	200.00	2	$	20.00	22	$ 220.00
77	Guardrail Markers, Type B	Each	$	10.00	30	$	300.00	0	$	0.00	30	$ 300.00
78	Terminal Marker - Direct Applied	Each	$	50.00	2	$	100.00	2	$	100.00	4	$ 200.00
79	Storm Sewers, Class A, Type 1 12"	Foot	$	40.00	100	$	4,000.00	0	$	0.00	100	$ 4,000.00
80	Structural Repair of Conc. (Depth = or < 5 In.)	Sq. Ft.	$	200.00	162	$	32,400.00	0	$	0.00	162	$ 32,400.00
81	High Load Multi-Rotation Bearings, Guided Exp.	Each	$	4,000.00	5	$	20,000.00	0	$	0.00	5	$ 20,000.00
82	Railroad Crossing	L. Sum	$	40,000.00	0	$	0.00	1	$	40,000.00	1	$ 40,000.00
83	Construction Layout	L. Sum	$	40,000.00	1	$	40,000.00	0	$	0.00	1	$ 40,000.00
84	Fence Removal	Foot	$	5.00	692	$	3,460.00	708	$	3,540.00	1,400	$ 7,000.00
85	Flagger	Hour	$	50.00	500	$	25,000.00	500	$	25,000.00	1,000	$ 50,000.00
86	Railroad Crossing Removal	Each	$	10,000.00	0	$	0.00	1	$	10,000.00	1	$ 10,000.00
87	Railroad Protective Liability Insurance	L. Sum	$	15,000.00	0.5	$	7,500.00	0.5	$	7,500.00	1	$ 15,000.00
88	Temporary Railroad Crossing	Each	$	20,000.00	0	$	0.00	1	$	20,000.00	1	$ 20,000.00

	Eligible Cost	Ineligible Cost	Total Cost
Sub-Totals =	$ 2,130,645.50	$ 1,953,272.50	$ 4,083,918.00
10% Contigency =	$ 213,064.55	$ 195327.25	$ 408391.8
Totals =	**$ 2,343,710.05**	**$ 2,148,599.75**	**$ 4,492,309.80**

ICC Contribution (60% of Total Eligible Construction Costs) = $ 1,406,226.00

Utility Cost Breakdown

Within Eligible Limits

Not Foreseen

ICC Cost Estimate Breakdown
FAS 188 (CH 8)
Section 05-00195-00-BR
Bureau County

Land Acquisition Cost Breakdown

Within Eligible Limits

Item	Unit	Unit Price	Eligible Cost		Ineligible Cost		Total Cost	
			Quantity	Price	Quantity	Price	Quantity	Price
Proposed Right Of Way	Acre	$ 7,500.00	0.870	$ 6,525.00	0.441	$ 3,307.50	1.311	$ 9,832.50
Temporary Construction Easement	Acre	$ 0.00	0.790	$ 0.00	3.453	$ 0.00	4.243	$ 0.00
Permanent Easement	Acre	$ 0.00	0.14	$ 0.00	0.108	$ 0.00	0.248	$ 0.00

	Eligible Cost	Ineligible Cost	Total Cost
Totals =	$ 6,525.00	$ 3,307.50	$ 9,832.50

ICC Contribution (60% of Total Eligible Land Acquisition Cost) = $3,915.00

Preliminary Engineering Cost Breakdown

Percentage of Engineering Cost pertaining to CH 8 portion of project was determined by taking the total eligible construction cost divided by the total construction cost, app. 40%

	Eligible Cost	Ineligible Cost	Total Cost
Preliminary Engineering Cost =	$ 121,704.14	$ 182,556.20	$ 304,260.34

ICC Contribution (60% of Total Eligible Preliminary Engineering Cost) = $73,022.00

Total Cost Eligible for GCPF Assistance = $1,483,163.00