



SOIL BORING LOG

Date 4/8/25

ROUTE I-80 DESCRIPTION Noise Wall B23 LOGGED BY SB

SECTION C-91-109-22 LOCATION SEC. TWP. RNG.

COUNTY Will DRILLING RIG Mobile B-57 Longitude HSA HAMMER TYPE Auto HAMMER EFF (%) 89

STRUCT. NO.	Station	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE	GROUNDWATER ELEV. (ft)	REMARKS
N/A	N/A	0		4 inches of Asphalt			612.28	
		10		Gray, Moist FILL: SILTY CLAY, with gravel, some sand	4.5	P		
		5						
		7						
		8						
		8		Very Stiff Brown and Black, Moist SILTY CLAY, trace gravel, trace sand (CL/ML)	2.0	P		
		8						
		8						
		8		Very Stiff to Hard Brown and Gray, Moist SILTY CLAY, trace gravel (CL/ML)	4.5	P		
		8						
		9						
		8		Cobbles at 9 feet	4.5	P		
		10						
		10						
		5						
		8						
		11						
		7		WEATHERED LIMESTONE	3.0	P		
		50/3"		Auger refusal at 14.5 feet				
		15		End of Boring				

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)



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Date 4/8/25

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COUNTY Will DRILLING RIG Mobile B-57 Longitude HSA HAMMER TYPE Auto HAMMER EFF (%) 89

STRUCT. NO.	Station	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE	GROUNDWATER ELEV. (ft)	REMARKS
N/A	N/A	0		4 inches of Asphalt			612.10	
		6		Light Brown and Black, Moist FILL: GRAVEL, with sand, little slag				
		4						
		610.68						
		2		Stiff Brown, Moist SILTY CLAY, trace gravel, trace sand (CL/ML)				
		4						
		3			1.5			
		4				P		
		4						
		4		Hard Brown, Moist SILTY CLAY, trace gravel, trace sand (CL/ML)	4.3	P		
		10						
		6						
		11			4.5			
		18				P		
		10						
		601.43						
		50/3"		WEATHERED LIMESTONE				
		600.93		Auger refusal at 11.5 feet	4.5			
		4.5		End of Boring		P		
		15						

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 LOG

Date 5/21/25

ROUTE I-80 DESCRIPTION Noise Wall B23 LOGGED BY SB

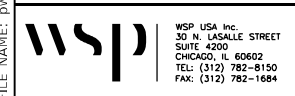
SECTION C-91-109-22 LOCATION SEC. TWP. RNG.

COUNTY Will DRILLING RIG CME-75 Longitude HSA HAMMER TYPE Auto HAMMER EFF (%) 78.8

STRUCT. NO.	Station	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE	GROUNDWATER ELEV. (ft)	REMARKS
N/A	N/A	0		2 inches of Asphalt			598.09	
		10		10 inches of Gravel			597.26	
		7		Hard Brown and Gray, Moist SILTY CLAY, trace gravel (CL/ML)				
		10			4.5			
		13				P		
		6						
		9			4.5			
		9				P		
		8						
		13			4.5			
		17				P		
		7						
		10			4.5			
		14				P		
		10						
		7						
		11			4.5			
		13				P		
		8						
		9			4.5			
		14				P		
		15						
		583.26		End of Boring				

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)

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USER NAME =	USG717780	DESIGNED -	MS	REVISED -	
PLOT SCALE =	0:2,000' = 1" / 10'	CHECKED -	NBR/PJL	REVISED -	
PLOT DATE =	6/9/2025	DRAWN -	BK/GM	REVISED -	
		CHECKED -	MS	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1 NOISE ABATEMENT WALL B23B - SN 099-N1026

SHEET SL-07 OF SL-09 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	FAI 80 21 INTERCHANGE	WILL	1209	801
CONTRACT NO. 62R22				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1
Date 3/27/25

ROUTE I-80 DESCRIPTION Noise Wall B23 LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. TWP. RNG. Latitude Longitude CME-75 HSA

COUNTY Will DRILLING RIG Auto HAMMER TYPE Auto HAMMER EFF (%) 78.8

STRUCT. NO.	Station	DEPTH	B	U	M	Surface Water Elev.	Stream Bed Elev.
N/A	N/A					N/A ft	N/A ft
NAW-23A	4+35.97						
	Offset 182.46ft RT						
	Ground Surface Elev. 624.36						
		624.28					
		5					
		9	5.0	23			
		11	B				
		7					
		13	4.6	17			
		13	B				
		-5					
		618.36					
		7					
		10	4.4	18			
		12	B				
		6					
		13	4.1	13			
		9	B				
		-10					
		5					
		8	3.5	17			
		11	B				
		5					
		7	3.1	16			
		11	B				
		-15					
		609.36					
		-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)



SOIL BORING LOG

Page 1 of 1
Date 3/27/25

ROUTE I-80 DESCRIPTION Noise Wall B23 LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. TWP. RNG. Latitude Longitude CME-75 HSA

COUNTY Will DRILLING RIG Auto HAMMER TYPE Auto HAMMER EFF (%) 78.8

STRUCT. NO.	Station	DEPTH	B	U	M	Surface Water Elev.	Stream Bed Elev.
N/A	N/A					N/A ft	N/A ft
NAW-24A	4+31.70						
	Offset 306.00ft RT						
	Ground Surface Elev. 623.14						
		623.05					
		2					
		3	1.9	22			
		4	B				
		619.64					
		8					
		10	6.0	11			
		12	B				
		-5					
		617.14					
		7					
		12	7.7	19			
		15	D				
		6					
		9	7.1	19			
		10	B				
		-10					
		6					
		7	3.3	13			
		9	B				
		7					
		12	4.8	15			
		15	B				
		-15					
		608.14					
		-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)



SOIL BORING LOG

Page 1 of 1
Date 4/22/25

ROUTE I-80 DESCRIPTION Noise Wall B23 LOGGED BY SB

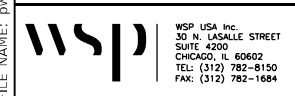
SECTION C-91-109-22 LOCATION SEC. TWP. RNG. Latitude Longitude CME-75 HSA

COUNTY Will DRILLING RIG Auto HAMMER TYPE Auto HAMMER EFF (%) 78.8

STRUCT. NO.	Station	DEPTH	B	U	M	Surface Water Elev.	Stream Bed Elev.
N/A	N/A					N/A ft	N/A ft
NAW-26	36+49.00						
	Offset 139.26ft LT						
	Ground Surface Elev. 605.14						
		604.64					
		22					
		5	1.8				
		4	P				
		601.64					
		3					
		5	3.5				
		5	P				
		-5					
		5					
		6	4.5				
		11	P				
		7					
		8	4.5				
		11	P				
		-10					
		5					
		8	4.5				
		11	P				
		5					
		8	4.5				
		6	P				
		-15					
		590.14					
		-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)

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PLOT DATE =	6/9/2025	DRAWN -	BK/GM	REVISED -	
		CHECKED -	MS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 2
NOISE ABATEMENT WALL B23B - SN 099-N1026

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	FAI 80 21 INTERCHANGE	WILL	1209	802
CONTRACT NO. 62R22				

SHEET SL-08 OF SL-09 SHEETS

ILLINOIS FED. AID PROJECT

INDEX OF SHEETS

- SM-01 General Plan and Elevation 1
- SM-02 General Plan and Elevation 2
- SM-03 General Notes and Total Bill of Material
- SM-04 Wall Details
- SM-05 Soil Boring Logs 1
- SM-06 Soil Boring Logs 2

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

- $f_c = 4,000$ psi
- $f_y = 60,000$ psi (Reinforcement)
- $f_y = 50,000$ psi (Struct. Steel, M270 Grade 50, posts)
- $f_y = 36,000$ psi (Struct. Steel, M270 Grade 36, all other structural steel)

PRECAST UNITS

- $f_c = 4,500$ psi
- $f_y = 60,000$ psi (Reinforcement)
- $f_y = 65,000$ psi (Welded Wire Reinforcement)

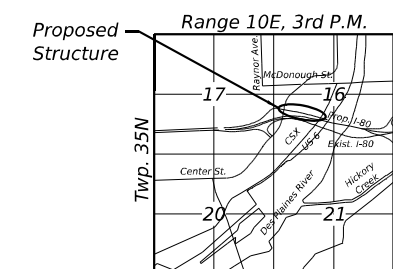
DESIGN LOADS

- Strength III or V Wind : 35 psf
- Service I Wind : 15 psf

Note:
All existing utilities are at least 2'-0" below existing Grade and 23'-0" min. below Finished Grade along the wall.

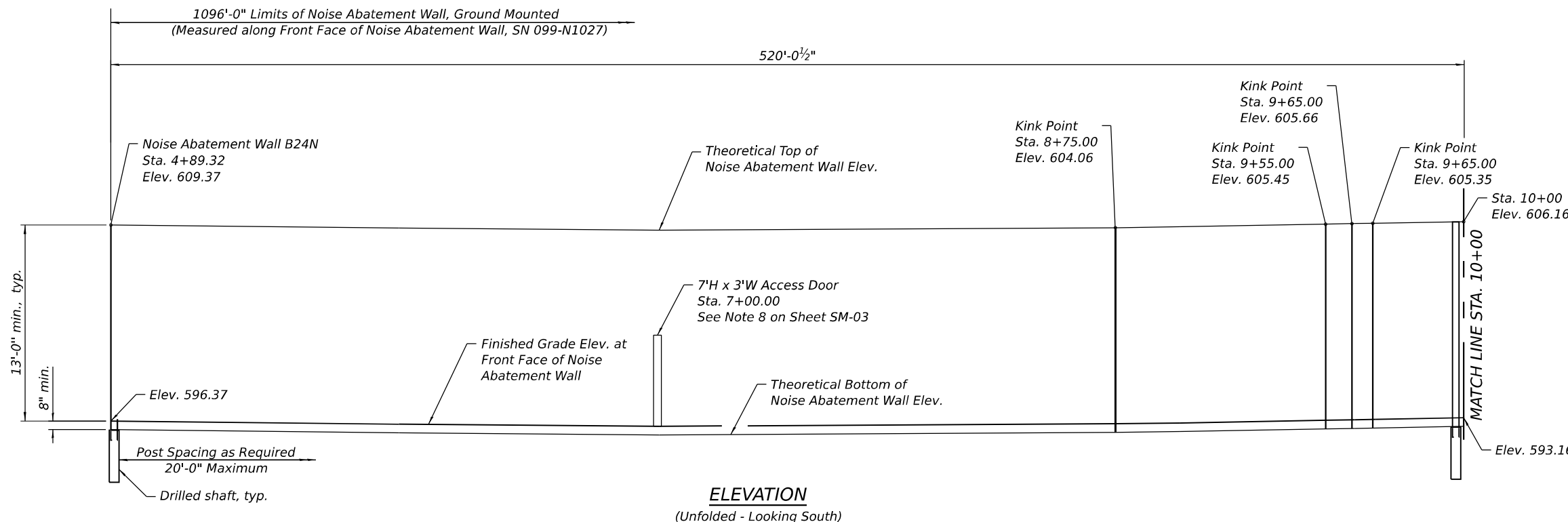
LEGEND

- Proposed ROW line
- FO Proposed Fiber Optic line
- E Proposed Electric line
- T Existing Telephone line
- A Existing Aerial line
- E Existing Electric line
- Existing ROW line
- G Existing Gas line
- Existing Sanitary Sewer
- Existing Storm Sewer
- W Existing Water main
- CTV Existing Cable TV line
- ◆ Indicates Soil Boring location

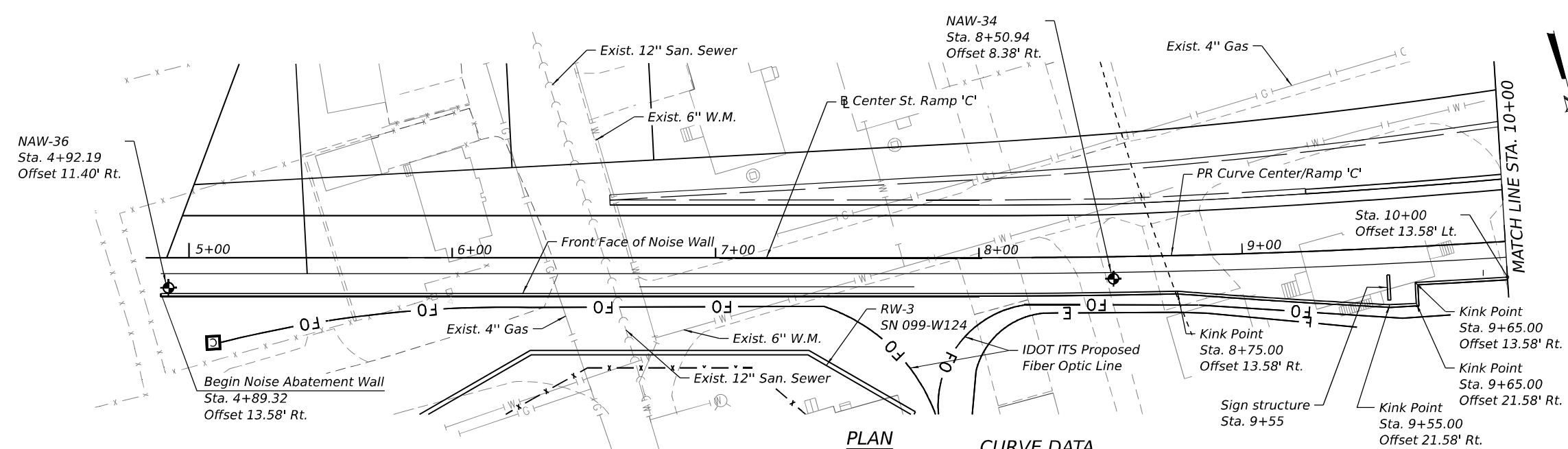


LOCATION SKETCH

**GENERAL PLAN AND ELEVATION 1
NOISE ABATEMENT WALL ALONG RAMP-C
F.A.I. RTE. I-80 SEC. FAI 80 21 INTERCHANGE
WILL COUNTY
STA. 4+89.32 TO STA. 33+09.23
STRUCTURE NO. 099-N1027 (NOISE WALL B24N)**



ELEVATION
(Unfolded - Looking South)



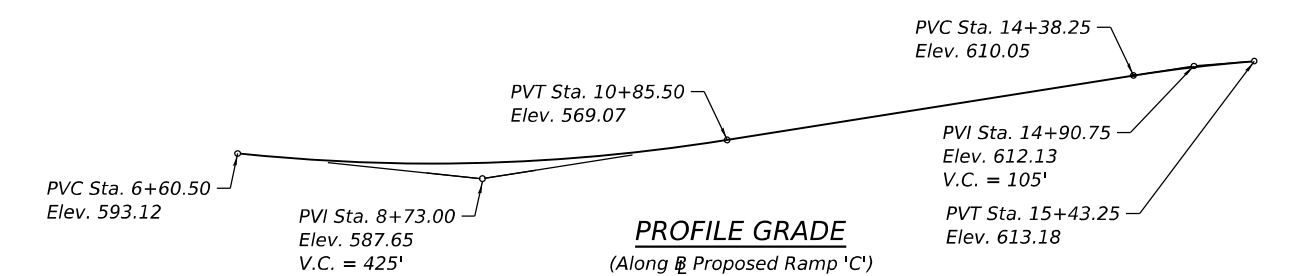
PLAN

CURVE DATA

PR Curve Center / Ramp 'C'
 PI Sta. = 9+07.47
 $\Delta = 03^\circ 49' 25''$ (LT)
 $D = 01^\circ 46' 54''$
 $R = 3,216.00'$
 $T = 107.35'$
 $L = 214.63'$
 $E = 1.79'$
 $e = 3.20\%$
 $TR = 64.0'$
 $SE\ Run = 102.4'$
 $PC\ Sta. = 8+00.12$
 $PT\ Sta. = 10+14.75$

NOTES:

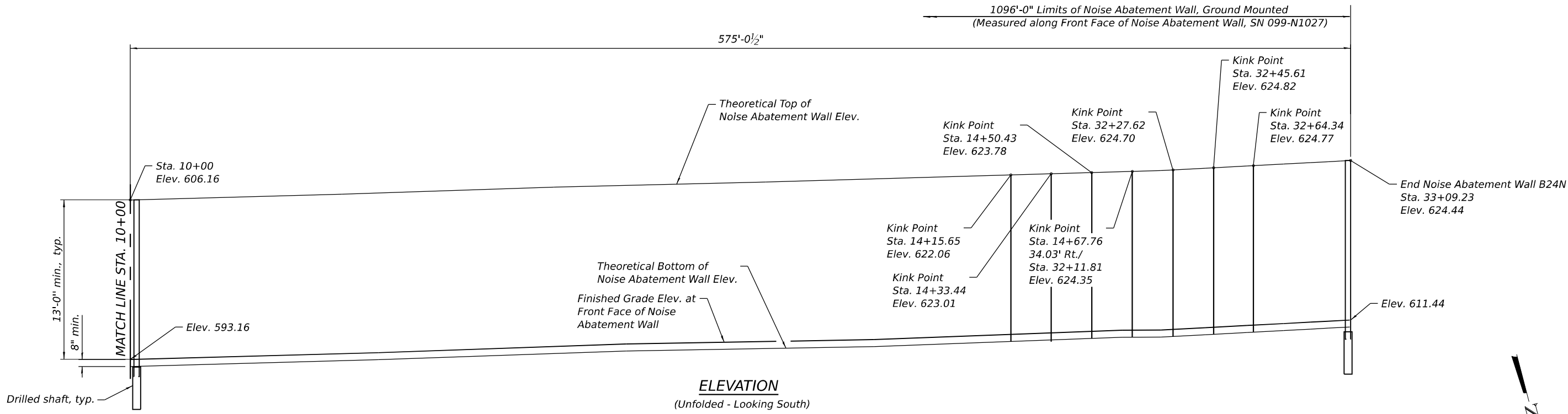
1. For General Notes and Total Bill of Material, see Sheet SM-03.
2. Stations are measured along and Offsets are measured to BL Prop. Ramp C/BL Center St.
3. Length of ground mounted wall is measured along Front Face of Noise Abatement Wall.



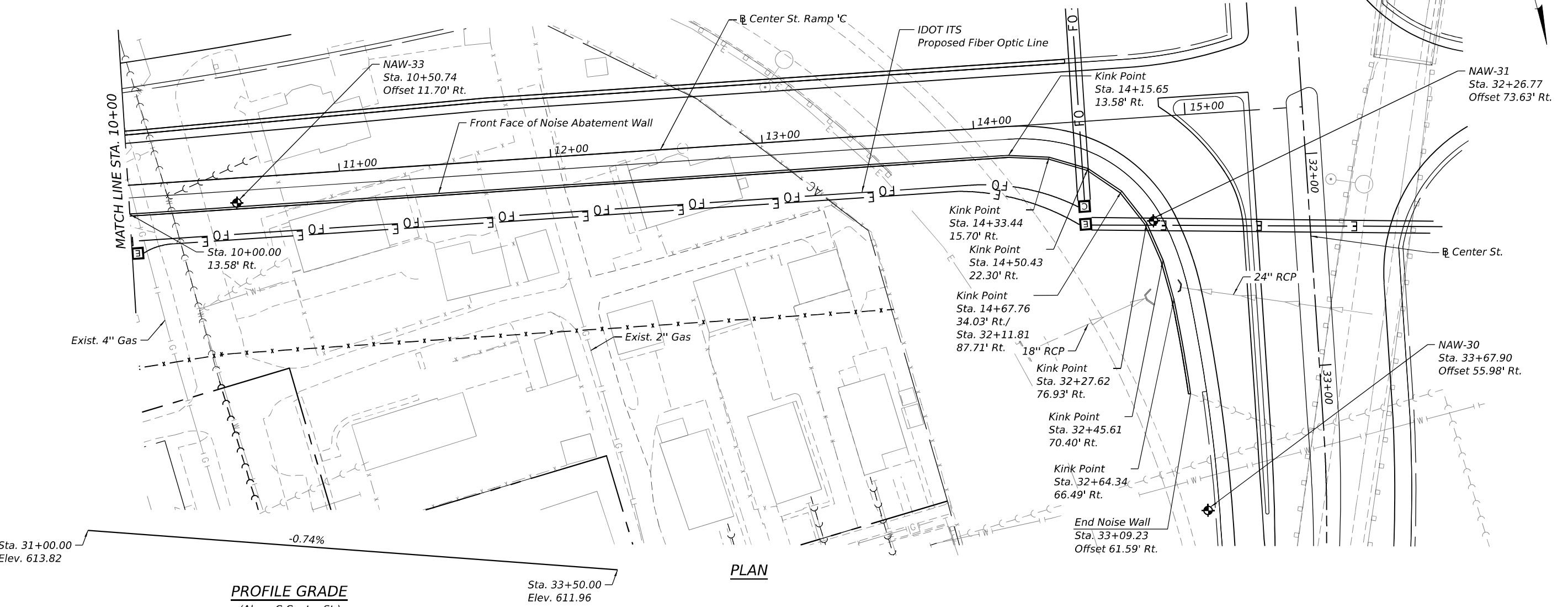
PROFILE GRADE
(Along Proposed Ramp 'C')

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<p>WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884</p>	USER NAME = USG717780	DESIGNED - MS	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>SHEET SM-01 OF SM-06 SHEETS</p>	FAU RTE. 316	SECTION FAI 80 21 INTERCHANGE	COUNTY WILL	TOTAL SHEETS 1209	SHEET NO. 804
	PLOT SCALE = 50:0' = 1" / in.	DRAWN - BK/GM	REVISED -			CONTRACT NO. 62R22				
PLOT DATE = 6/9/2025	CHECKED - MS	REVISED -	ILLINOIS FED. AID PROJECT							



ELEVATION
(Unfolded - Looking South)



PROFILE GRADE
(Along Center St.)

PLAN

MODEL: Default
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 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4200
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME =	USG717780	DESIGNED -	MS	REVISED -	
CHECKED -	NBR/PJL	CHECKED -	NBR/PJL	REVISED -	
PLOT SCALE =	50,000 1/4 in.	DRAWN -	BK/GM	REVISED -	
PLOT DATE =	6/9/2025	CHECKED -	MS	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION 2
NOISE ABATEMENT WALL B24N - SN 099-N1027**

SHEET SM-02 OF SM-06 SHEETS

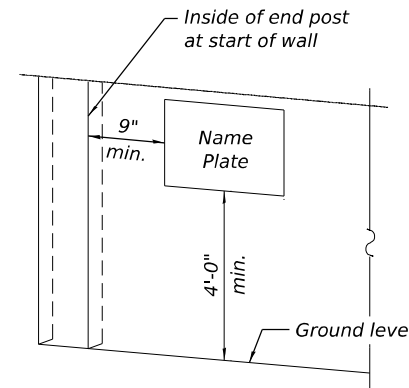
FA.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	FAI 80 21 INTERCHANGE	WILL	1209	805
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

- Theoretical Top of Wall Elev., Theoretical Bottom of Wall Elev., Finished Grade Elev. at Front Face of Wall and Finished Grade Elev. at Back Face of Wall shall be taken as straight lines in the segments between the stations shown in the Noise Wall Data Table.
- See NOISE ABATEMENT WALL, GROUND MOUNTED Special Provision for material, design, fabrication, construction and erection and other requirements for installation of the proposed Noise Abatement Wall.
- The existing utilities will be adjusted. The Contractor shall field verify location of the existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
- Noise Abatement Wall drilled shaft foundation diameter, depth and spacing to be determined by the Contractor in accordance with the Special Provision.
- Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall.
- The default color of both sides of the NAW panels, posts and other visible elements shall be Federal Standard 30279 - Sand.
- Access door location shown in the plans is approximate and may be adjusted to accommodate final fire hydrant locations provided by the City of Joliet. This work shall be included as part of the respective Noise Abatement Wall costs.

NOISE ABATEMENT WALL
 BUILT 202 BY
 STATE OF ILLINOIS
 F.A.I. RTE. I-80
 SECTION FAI 80 21 INTERCHANGE
 FROM STA. 4+89.32 TO STA. 33+09.23
 STRUCTURE NO. 099-N1027

NAME PLATE
 See Std. 515001



**FOR NOISE ABATEMENT WALL
 GROUND MOUNTED**

NOISE ABATEMENT WALL B24N (DATA TABLE)

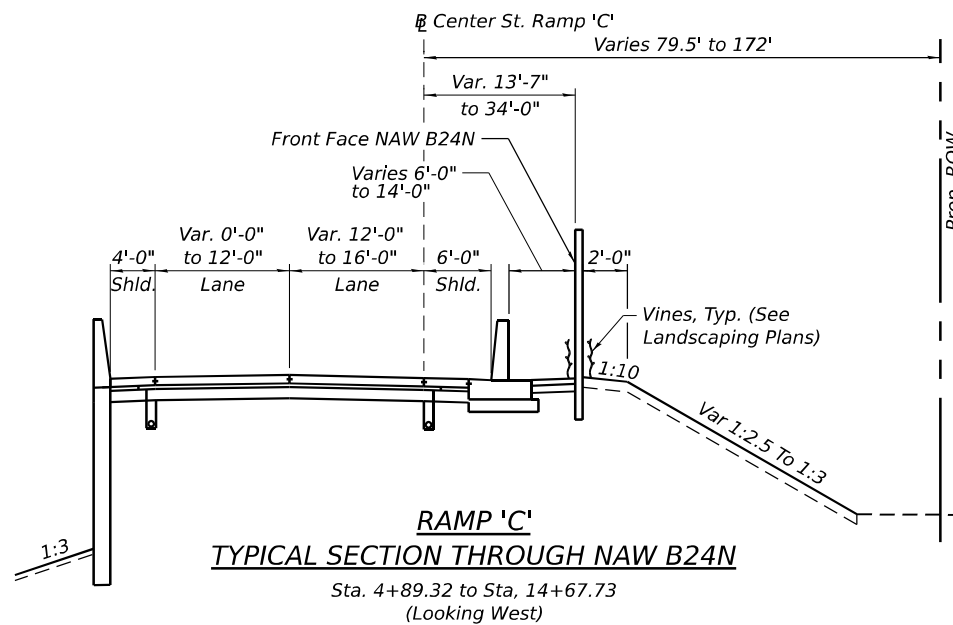
Station	Offset (Rt.) to Front Face of Wall (ft.)	Theoretical Top of NAW Elev.	Ramp C/ Center St. Elev	Finished Grade Elev. at Front Face of NAW	Finished Grade Elev. at Back Face of NAW	Ex. Grade Elev. at Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
4+89.32	13.58	609.37	596.46	596.37	596.37	551.66	595.70	13.67
5+00.00	13.58	609.18	596.25	596.18	596.18	552.48	595.51	13.67
5+50.00	13.58	608.31	595.28	595.31	595.31	555.74	594.64	13.67
6+00.00	13.58	607.30	594.30	594.30	594.30	558.54	593.63	13.67
6+50.00	13.58	606.26	593.32	593.26	593.26	561.53	592.59	13.67
7+00.00	13.58	605.14	592.22	592.14	592.14	564.92	591.47	13.67
7+50.00	13.58	604.36	591.43	591.36	591.36	566.68	590.69	13.67
8+00.00	13.58	603.95	591.03	590.95	590.95	568.25	590.28	13.67
8+50.00	13.58	603.93	591.01	590.93	590.93	568.07	590.26	13.67
8+75.00	13.58	604.06	591.14	591.06	591.06	569.36	590.39	13.67
9+00.00	16.08	604.39	591.37	591.39	591.39	569.61	590.72	13.67
9+50.00	21.08	605.34	592.41	592.34	592.34	569.76	591.67	13.67
9+55.00	21.58	605.45	592.12	592.45	592.45	569.97	591.78	13.67
9+65.00	21.58	605.66	592.42	592.66	592.66	570.61	591.99	13.67
9+65.00	13.58	605.35	592.63	592.35	592.35	570.88	591.68	13.67
10+00.00	13.58	606.16	593.25	593.16	593.16	571.83	592.49	13.67
10+50.00	13.58	607.68	594.76	594.68	594.68	572.32	594.01	13.67
11+00.00	13.58	609.56	596.65	596.56	596.56	574.29	595.89	13.67
11+50.00	13.58	611.54	598.63	598.54	598.54	576.28	597.87	13.67
12+00.00	13.58	613.52	600.61	600.52	600.52	579.16	599.85	13.67
12+50.00	13.58	615.50	602.59	602.50	602.50	582.93	601.83	13.67
13+00.00	13.58	617.48	604.57	604.48	604.48	585.23	603.81	13.67
13+50.00	13.58	619.46	606.55	606.46	606.46	589.75	605.79	13.67
14+00.00	13.58	621.44	608.54	608.44	608.44	594.13	607.77	13.67
14+15.65	13.58	622.06	609.16	609.06	609.06	592.60	608.39	13.67
14+33.44	15.70	623.01	609.86	610.01	610.01	589.40	609.34	13.67
14+50.43	22.30	623.78	610.52	610.78	610.78	589.21	610.11	13.67
14+67.76 / 32+11.81	34.03 / 87.71	624.35	612.99	611.35	611.35	590.10	610.68	13.67
32+27.62	76.93	624.70	612.87	611.70	611.70	590.86	611.03	13.67
32+45.61	70.40	624.82	612.74	611.82	611.82	591.47	611.15	13.67
32+64.34	66.49	624.77	612.60	611.77	611.77	592.03	611.10	13.67
33+09.23	61.59	624.44	612.27	611.44	611.44	594.58	610.77	13.67

TOTAL BILL OF MATERIAL

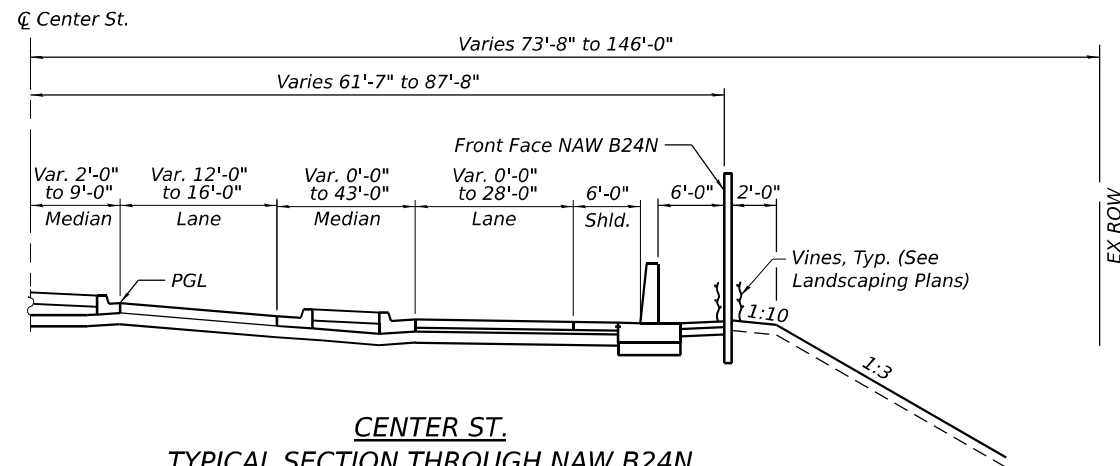
ITEM	UNIT	TOTAL
Name Plates	Each	1
Noise Abatement Wall, Ground Mounted	Sq. Ft.	14,980

NOISE REDUCTION DATA

Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
I-80 face	4+89.32	33+09.23	Reflective	-
Residential face	4+89.32	33+09.23	Reflective	-



TYPICAL SECTION THROUGH NAW B24N
 Sta. 4+89.32 to Sta. 14+67.73
 (Looking West)



TYPICAL SECTION THROUGH NAW B24N
 Sta. 32+11.81 to Sta. 33+09.23
 (Looking West)

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<p>WSP USA Inc. 30 N. LASALLE STREET SUITE 4000 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884</p>	USER NAME = USG717780	DESIGNED - MS	REVISED -
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	PLOT DATE = 4/23/2025	DRAWN - BK/GM	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

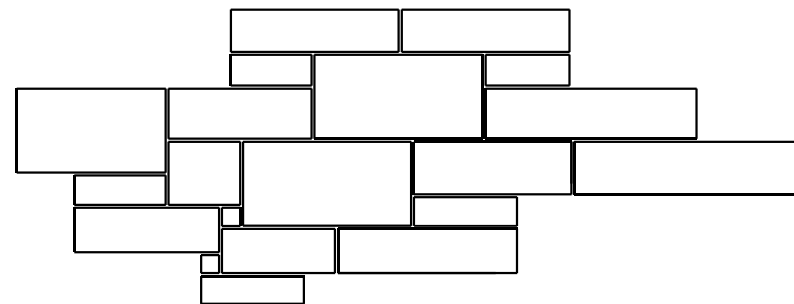
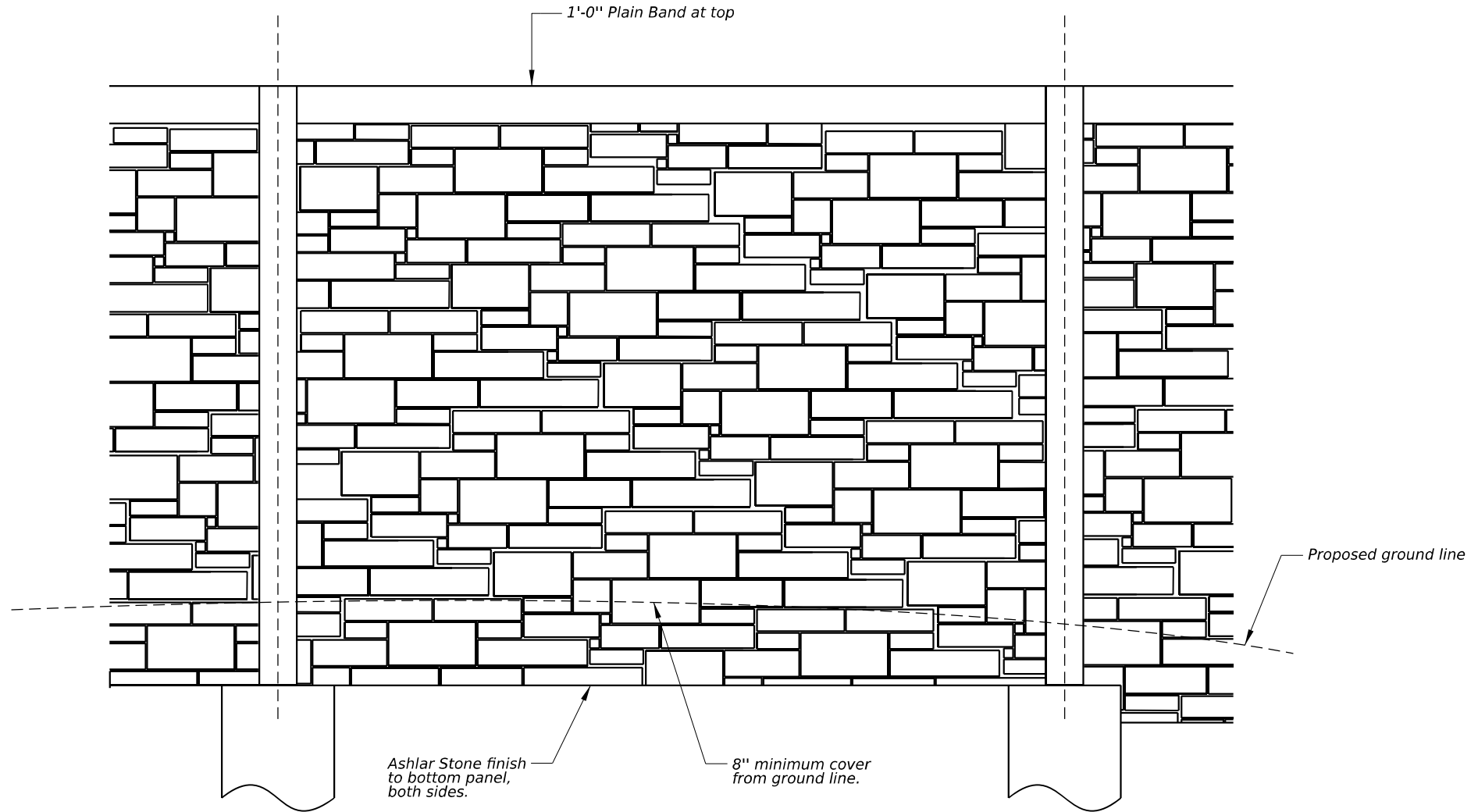
**GENERAL NOTES AND TOTAL BILL OF MATERIAL
 NOISE ABATEMENT WALL B24N - SN 099-N1027**

SHEET SM-03 OF SM-06 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	FAI 80 21 INTERCHANGE	WILL	1209	806
CONTRACT NO. 62R22				
ILLINOIS		FED. AID PROJECT		

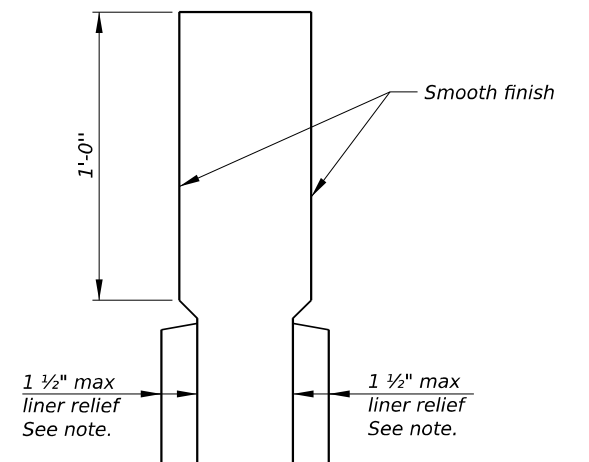
Notes:

Each side of the noise wall panels shall have a rolled ashlar stone finish. The finish shall have a 1 1/2" relief for noise abatement wall, ground mounted. The color of both sides of the panels, plain band, posts and all other visible elements shall follow the special provisions.



ENLARGED PATTERN DETAIL

Stone Pattern Sizes:
3" x 3" - 14" x 28"



ENLARGED CAP DETAIL

MODEL: NOISE WALLS DETAILS
FILE NAME: p:\transystems\ppw\1-hosted\Documents\Projects_2018\CH40\401.180022\03-WSP\CAD\62R22-INT-4 (Center)\Sheets\Structural\Noise Walls\Pre-Final\NAV B24\0162R22-DET_B24-04.dgn

wsp
WSP USA Inc.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME =	USGM717780	DESIGNED -	MS	REVISED -	
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PLOT DATE =	4/23/2025	CHECKED -	MS	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL DETAILS
NOISE ABATEMENT WALL B24N - SN 099-N1027**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	FAI 80 21 INTERCHANGE	WILL	1209	807
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
GSG Consultants

SOIL BORING LOG

Page 1 of 1

Date 3/20/25

ROUTE I-80 DESCRIPTION Noise Wall B24 LOGGED BY GD

SECTION C-91-109-22 LOCATION SEC. TWP. RNG.

COUNTY Will DRILLING RIG Mobile B-57 HSA HAMMER TYPE Auto HAMMER EFF (%) 92.1

STRUCT. NO. N/A Station N/A
BORING NO. NAW-34 Station 8+50.94 Offset 0.30ft RT
Ground Surface Elev. 571.15 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion N/A ft
After Hrs. N/A ft

DEPTH (ft)	DESCRIPTION	D	B	U	M	Qu	T
0	6 inches of Topsoil						
4	Soft Black, Moist SILTY CLAY, little gravel, trace roots (CL/ML)		4			0.3	52
5.7	WEATHERED LIMESTONE					P	
5.88	Auger refusal at 3 feet						
5.915	End of Boring						
-5							
-10							
-15							
-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)



Illinois Department of Transportation
Division of Highways
GSG Consultants

SOIL BORING LOG

Page 1 of 1

Date 4/29/25

ROUTE I-80 DESCRIPTION Noise Wall B24 LOGGED BY CH

SECTION C-91-109-22 LOCATION SEC. TWP. RNG.

COUNTY Will DRILLING RIG CME-75 HSA HAMMER TYPE Auto HAMMER EFF (%) 78.8

STRUCT. NO. N/A Station N/A
BORING NO. NAW-36 Station Sta. 4+92.19 Offset 11.40' Rt
Ground Surface Elev. 551.92 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion N/A ft
After Hrs. N/A ft

DEPTH (ft)	DESCRIPTION	D	B	U	M	Qu	T
0	Gray, Moist FILL: GRAVEL, with sand						
6	Black, Moist SILTY CLAY, with gravel (C _J /ML)		6			10	7
10	Very Dense Brown, Moist SAND, with gravel (SP)					50/1'	
11.4	Auger refusal at 3 feet						
11.492	End of Boring						
-5							
-10							
-15							
-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)

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WSP
WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME =	USGM717780	DESIGNED -	MS	REVISED -	
CHECKED -	NBR/PJL	REVISOR -		REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


SOIL BORING LOGS 2
NOISE ABATEMENT WALL B24N - SN 099-N1027
SHEET SM-06 OF SM-06 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	FAI 80 21 INTERCHANGE	WILL	1209	809
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

SN-1	Key Plan
SN-2	Structure No. 099-0052 EB & 099-0053 WB
SN-3	Structure No. 099-0054 EB & 099-0055 WB
SN-4	Structure No. 099-0075
SN-5	Structure No. 099-0074
SN-6 thru SN-10	Structure No. 099-0188
SN-11	Structure No. 099-0187

LEGEND

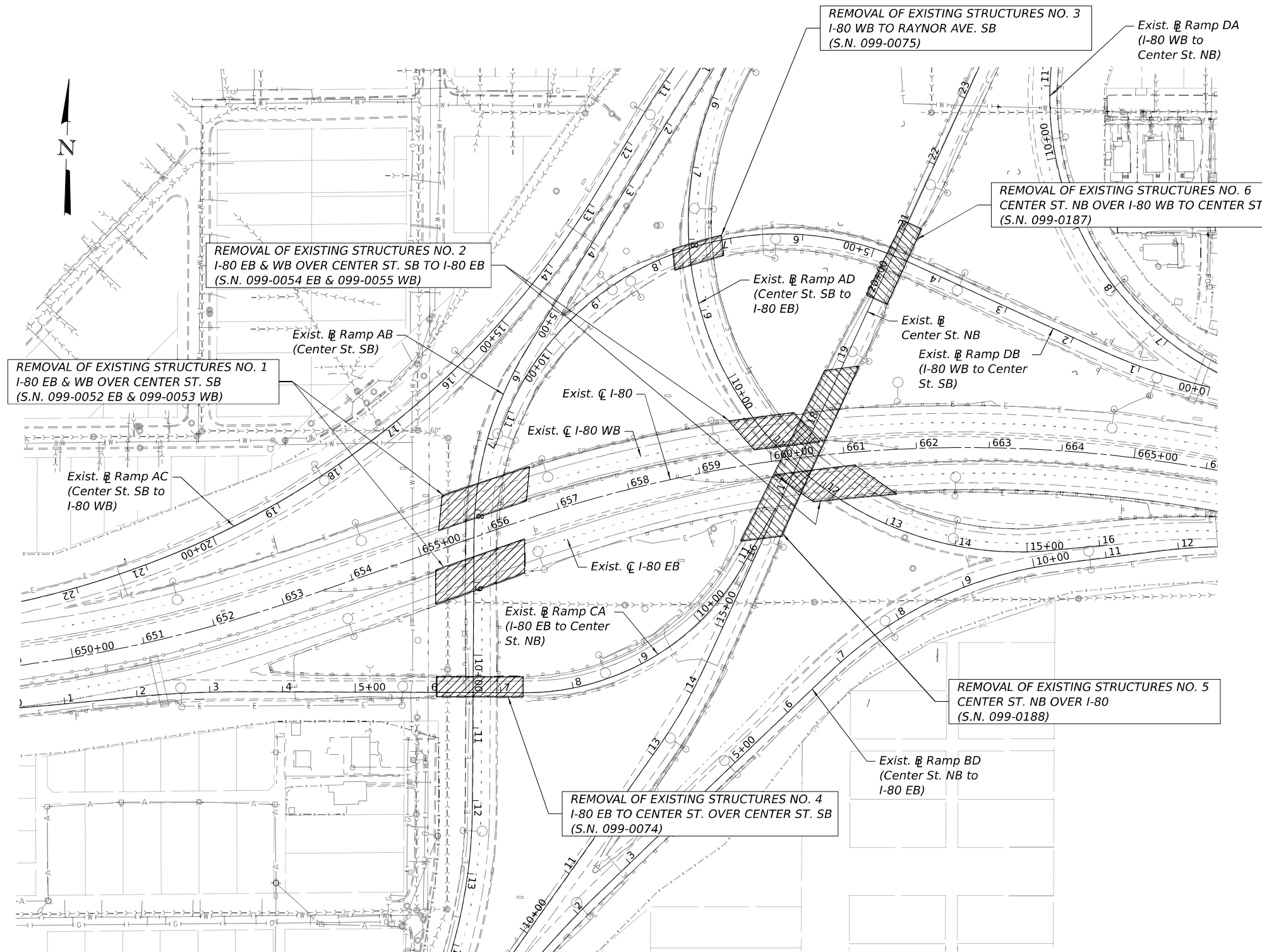
 Removal of Existing Structure

Notes:

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause of additional compensation for a change in scope of work, however, the Contractor will be paid for quantity actually furnished at the unit price bid for the work.
- Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutment down to a minimum elevation as noted in the plans.
- The existing structural steel coating contains lead. The Contractor shall take appropriate cautions to deal with the presence of lead on this project.
- Contractor shall not scale dimensions from the contract plans for construction purposes. Scales are shown for information only.
- The Contractor shall take all necessary precautions to protect existing utilities, foundations and adjacent structures during removal/construction of the bridge.
- For suggested stages of construction and sequencing requirements, see Roadway Plans and Special Provisions.

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 1	Each	1
Removal of Existing Structures No. 2	Each	1
Removal of Existing Structures No. 3	Each	1
Removal of Existing Structures No. 4	Each	1
Removal of Existing Structures No. 5	Each	1
Removal of Existing Structures No. 6	Each	1
Protective Shield	Sq. Yd.	90
Deck Slab Repair (Partial)	Sq. Yd.	225



KEY PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KEY PLAN
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS

SHEET SN-1 OF SN-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			CONTRACT NO. 62R22	
FED. AID PROJECT				

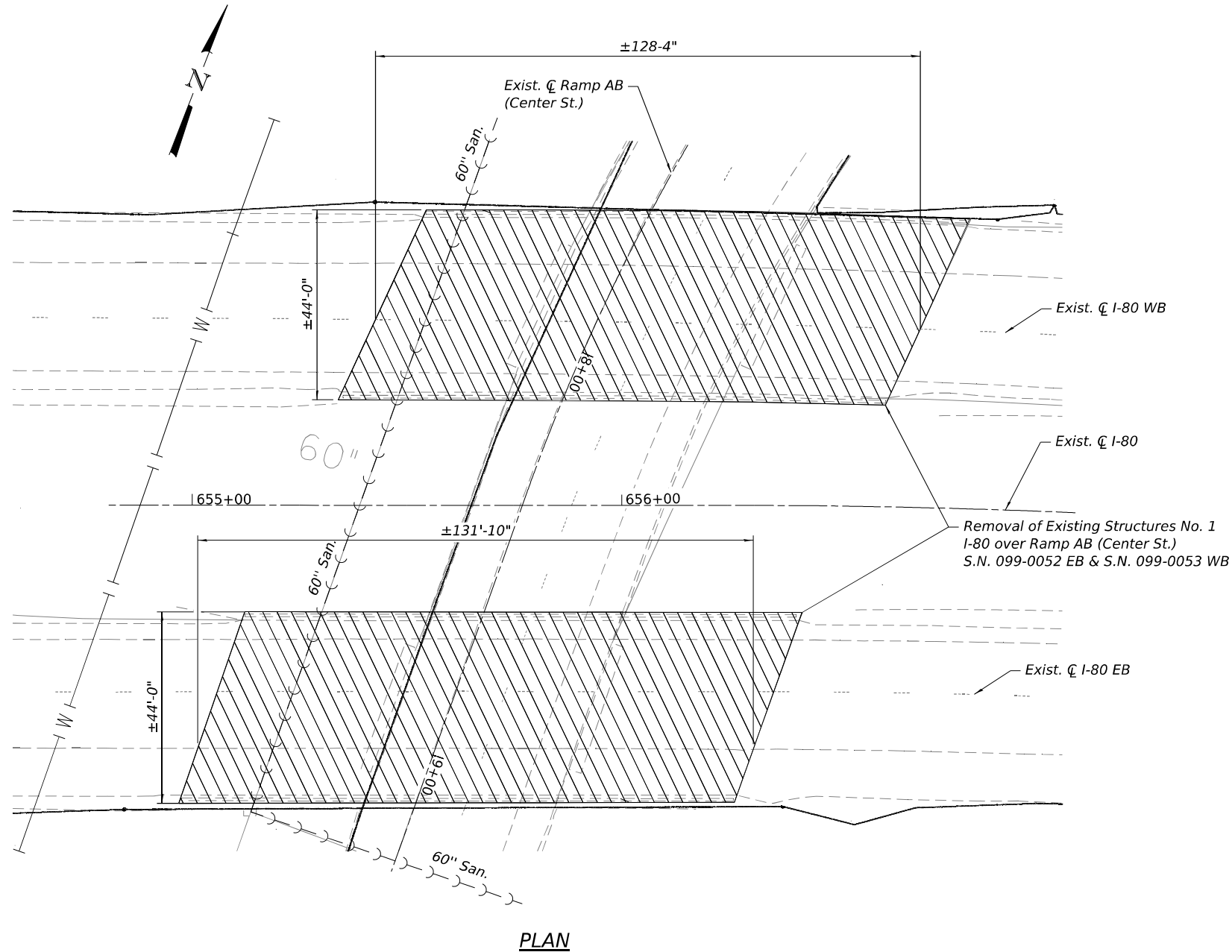
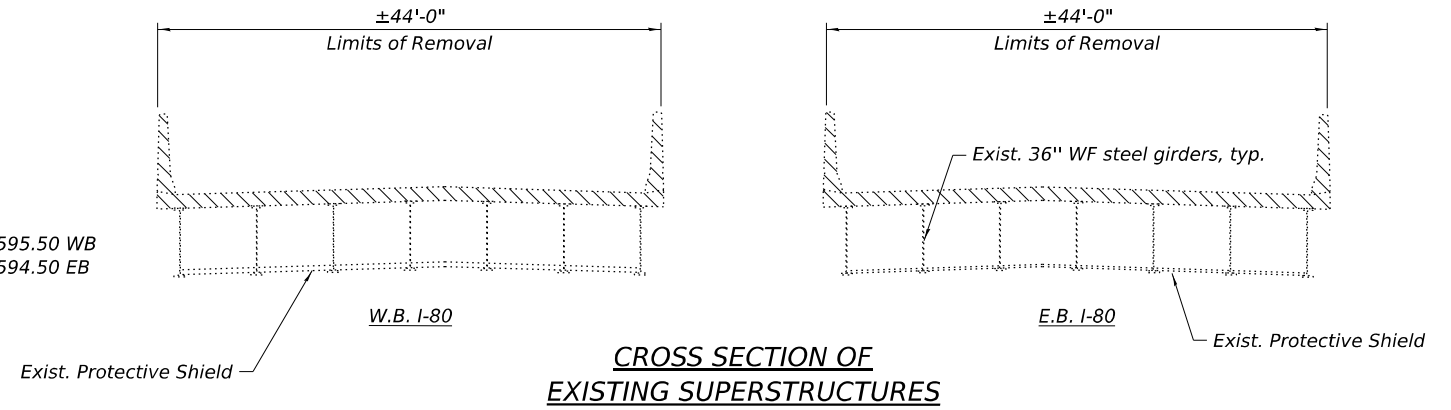
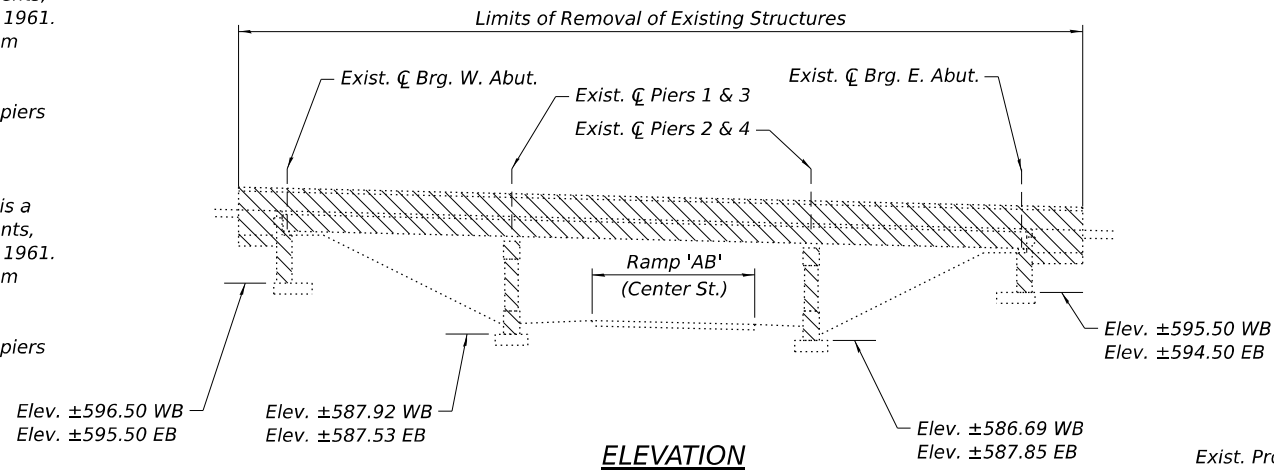
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 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USSJ696614
 DESIGNED - MHD
 DRAWN - MHD
 CHECKED - PJJ
 DATE - 6/14/2024
 REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 REVISED -

PLOT SCALE = 1/64" = 16667.92000 "/in.
 PLOT DATE = 4/22/2025

Existing EB Structure: S.N. 099-0052 is a ±131'-10" long back to back of abutments, three span structure originally built in 1961. The existing structure has a multi-beam non-composite superstructure with an overall width of ±44'-0". The existing pedestal abutments and multicolumn piers with tapered columns are founded on spread footings.

Existing WB Structure: S.N. 099-0053 is a ±128'-4" long back to back of abutments, three span structure originally built in 1961. The existing structure has a multi-beam non-composite superstructure with an overall width of ±44'-0". The existing pedestal abutments and multicolumn piers with tapered columns are founded on spread footings.



LEGEND

- Removal of Existing Structure
- Water Line

Notes:

1. Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutments and piers down to a minimum elevation as noted in the plans.
2. Deck slab repair areas are based upon 5% of the deck needing partial depth repairs. Actual location and size of patches to be placed shall be determined by the Engineer in the field at the time of construction and shown on As-built plans. See Special Provision "Bridge Deck Maintenance Patching".

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 1	Each	1
Deck Slab Repair (Partial)	Sq. Yd.	64

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DESIGNED - MHD
 DRAWN - MHD
 CHECKED - PJL
 DATE - 6/14/2024

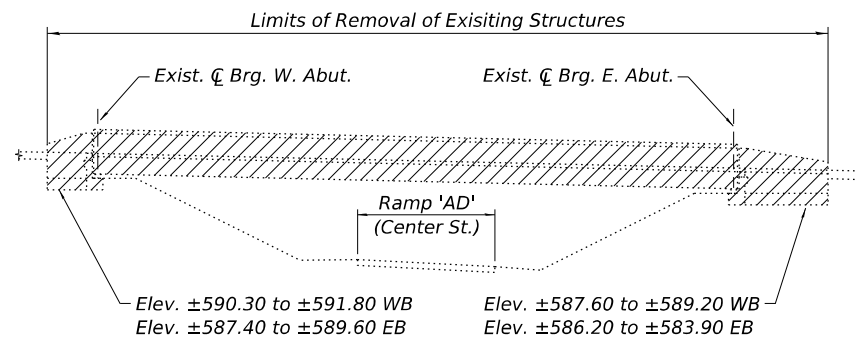
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 099-0052 EB & 099-0053 WB
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS

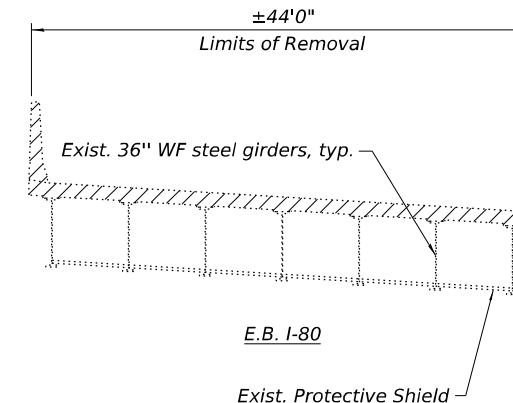
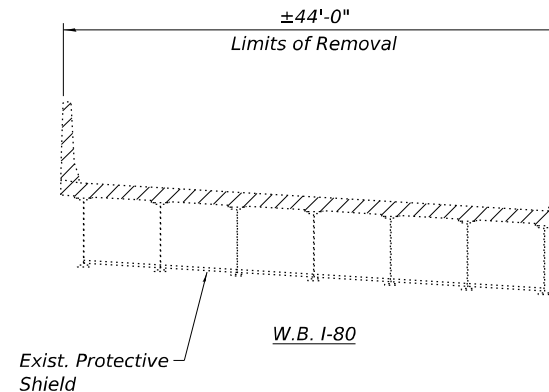
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	811
CONTRACT NO. 62R22				

Existing EB Structure: S.N. 099-0054 is a ±118'-5" long back to back of abutments, four span structure originally built in 1961. The existing structure has a multi-beam composite superstructure with an overall width of ±44'-0". The existing pedestal abutments are founded on piles and the piers are founded on spread footings.

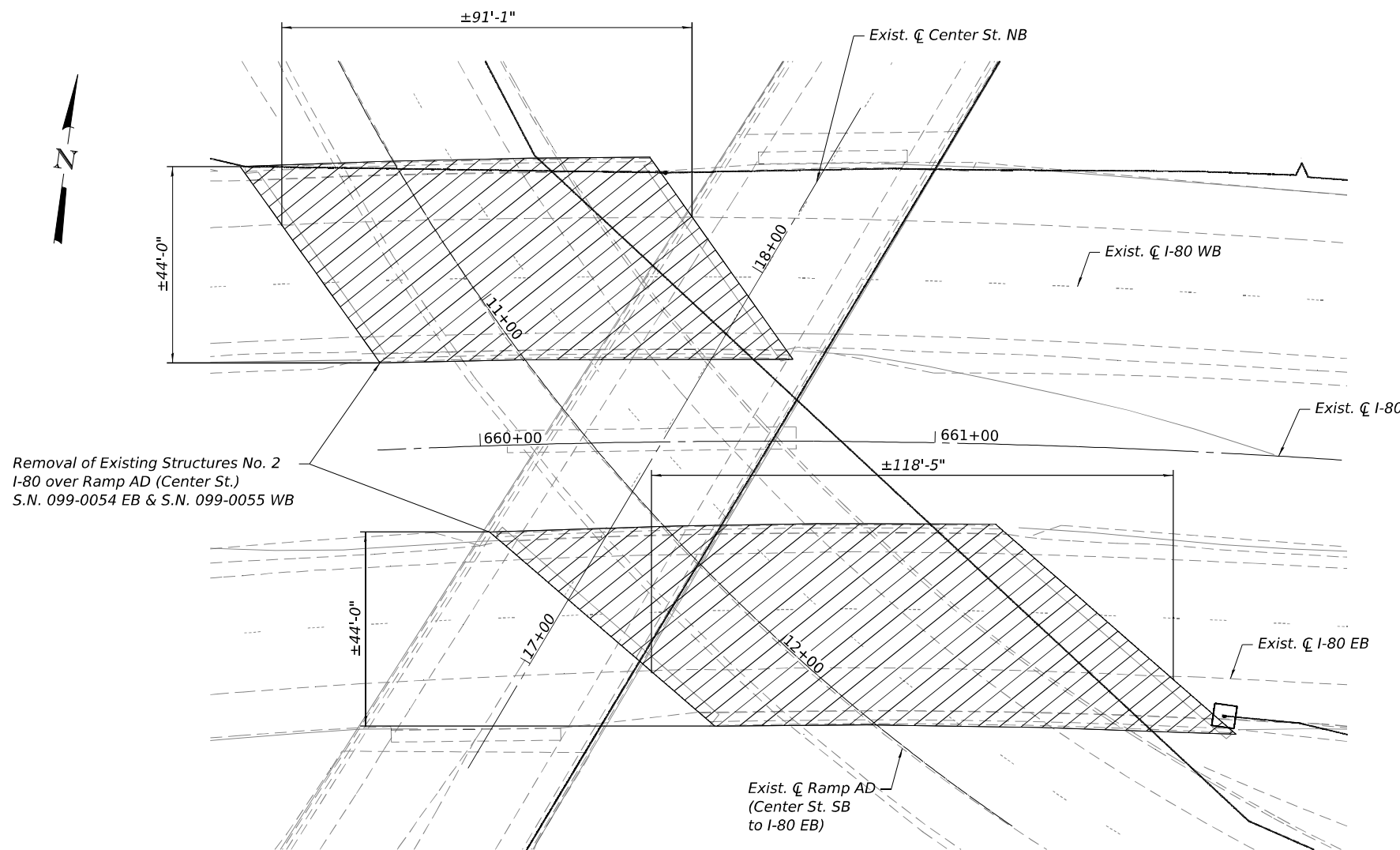
Existing WB Structure: S.N. 099-0055 is a ±91'-1" long back to back of abutments, four span structure originally built in 1961. The existing structure has a multi-beam composite superstructure with an overall width of ±44'-0". The existing pedestal abutments are founded on piles and the piers are founded on spread footings.



ELEVATION



CROSS SECTION OF EXISTING SUPERSTRUCTURES



Removal of Existing Structures No. 2 I-80 over Ramp AD (Center St.) S.N. 099-0054 EB & S.N. 099-0055 WB

PLAN

LEGEND

Removal of Existing Structure

Notes:

- Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutments down to a minimum elevation as noted in the plans.
- Deck slab repair areas are based upon 5% of the deck needing partial depth repairs. Actual location and size of patches to be placed shall be determined by the Engineer in the field at the time of construction and shown on As-built plans. See Special Provision "Bridge Deck Maintenance Patching".

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 2	Each	1
Deck Slab Repair (Partial)	Sq. Yd.	50

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WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USSJ696614	DESIGNED - MHD	REVISED -
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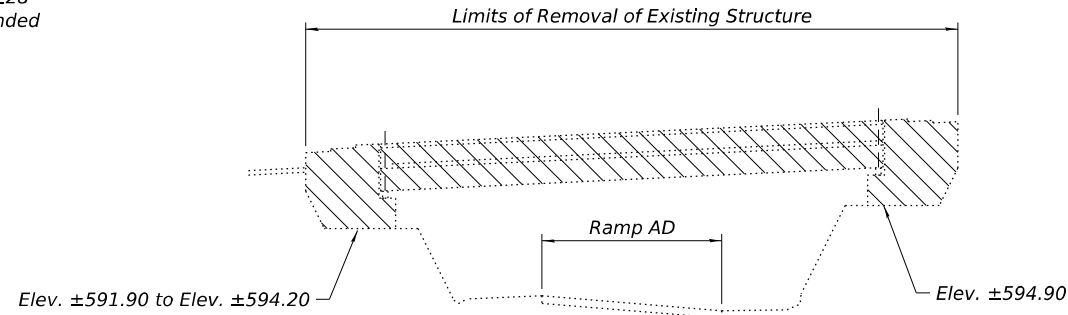
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURE NO. 099-0054 EB & 099-0055 WB
 BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS**

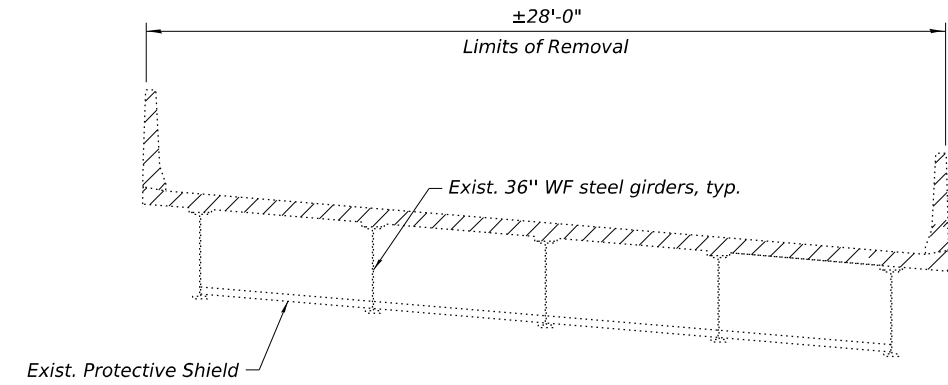
SHEET SN-3 OF SN-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62R22	

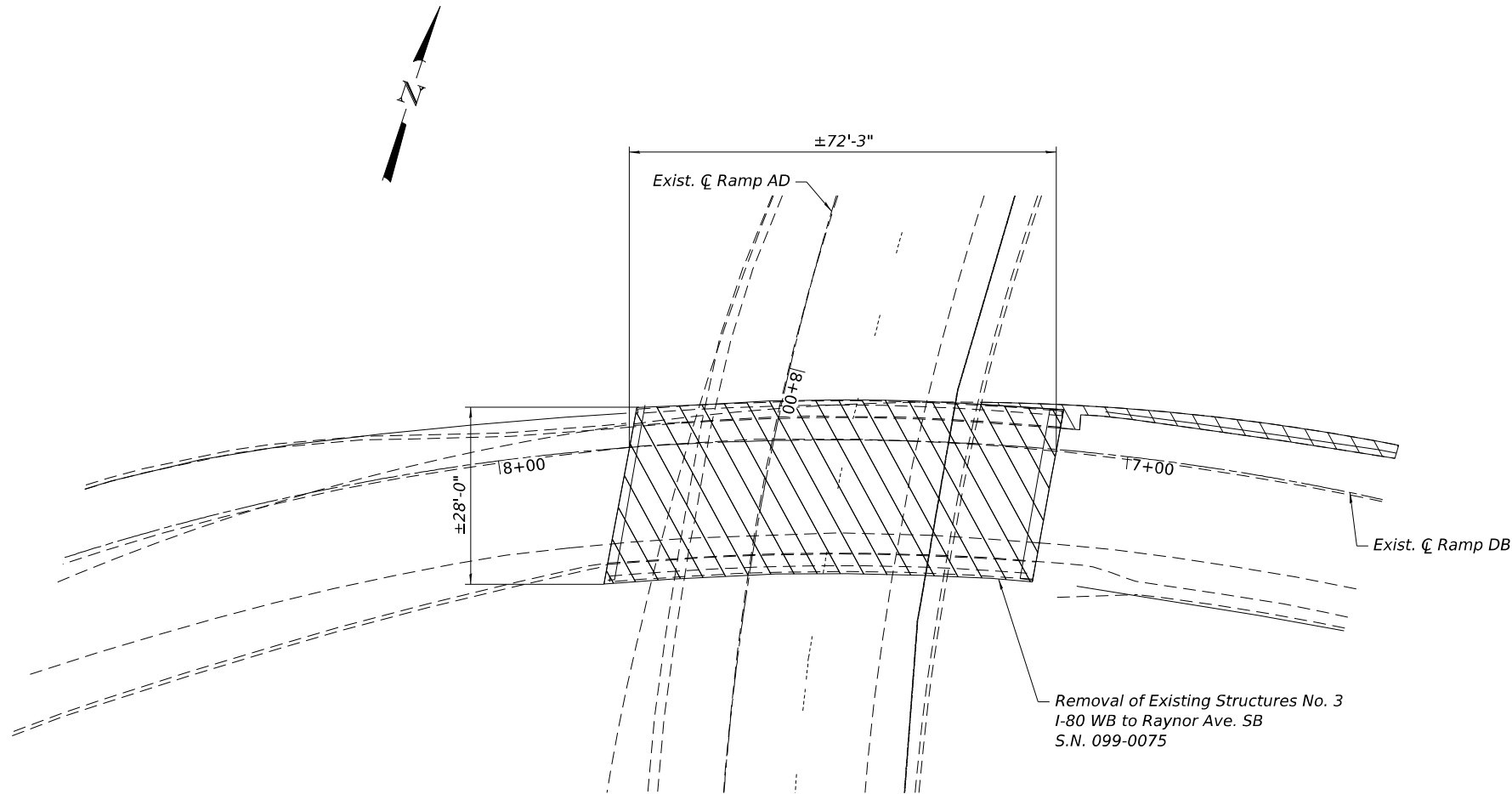
Existing Structure: S.N. 099-0075 is a $\pm 72'-3"$ long back to back of abutments, single span structure originally built in 1961. The existing structure has a multi-beam composite superstructure with an overall width of $\pm 28'-0"$. The existing stub abutments are founded on spread footings.



ELEVATION



CROSS SECTION OF EXISTING SUPERSTRUCTURE



PLAN

LEGEND

Removal of Existing Structure

Notes:

1. Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutments down to a minimum elevation as noted in the plans.
2. Deck slab repair areas are based upon 5% of the deck needing partial depth repairs. Actual location and size of patches to be placed shall be determined by the Engineer in the field at the time of construction and shown on As-built plans. See Special Provision "Bridge Deck Maintenance Patching".

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 3	Each	1
Deck Slab Repair (Partial)	Sq. Yd.	11

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WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USSJ696614	DESIGNED - MHD	REVISED -
	DRAWN - MHD	REVISED -
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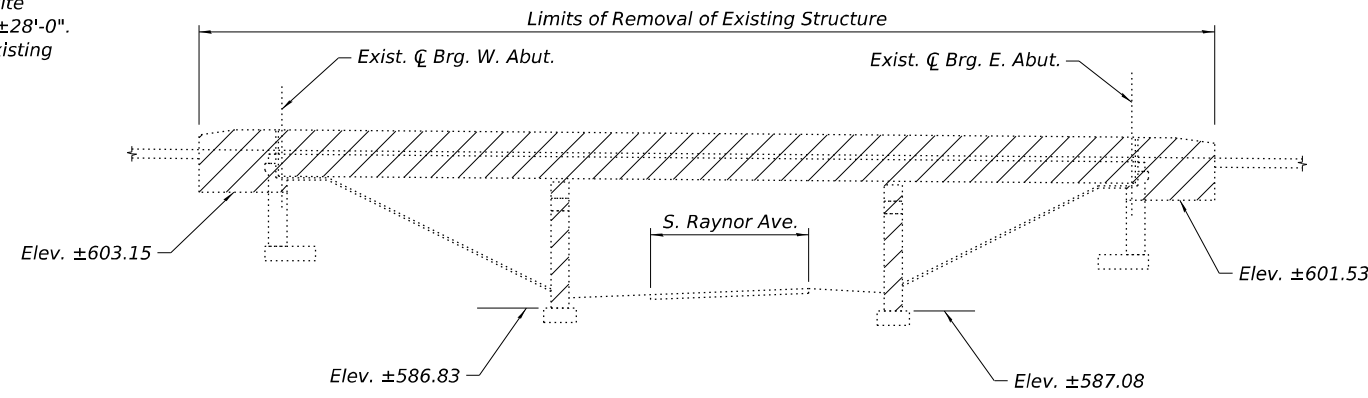
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 099-0075
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS

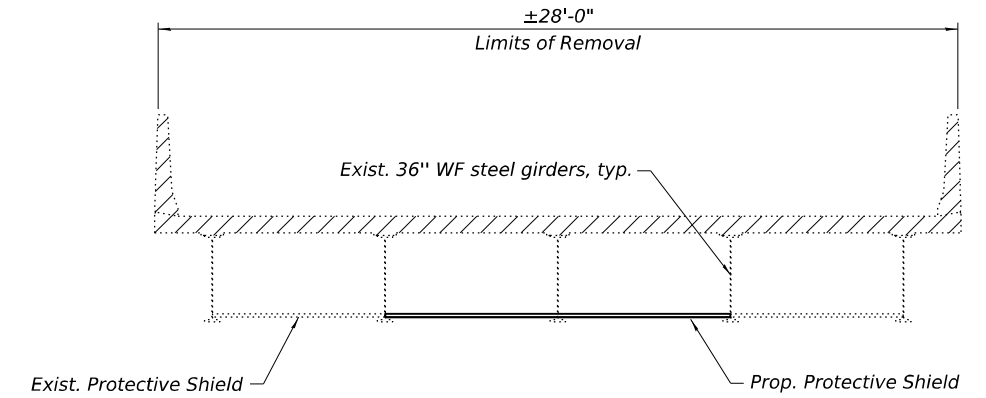
SHEET SN-4 OF SN-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R22				
		ILLINOIS	FED. AID PROJECT	

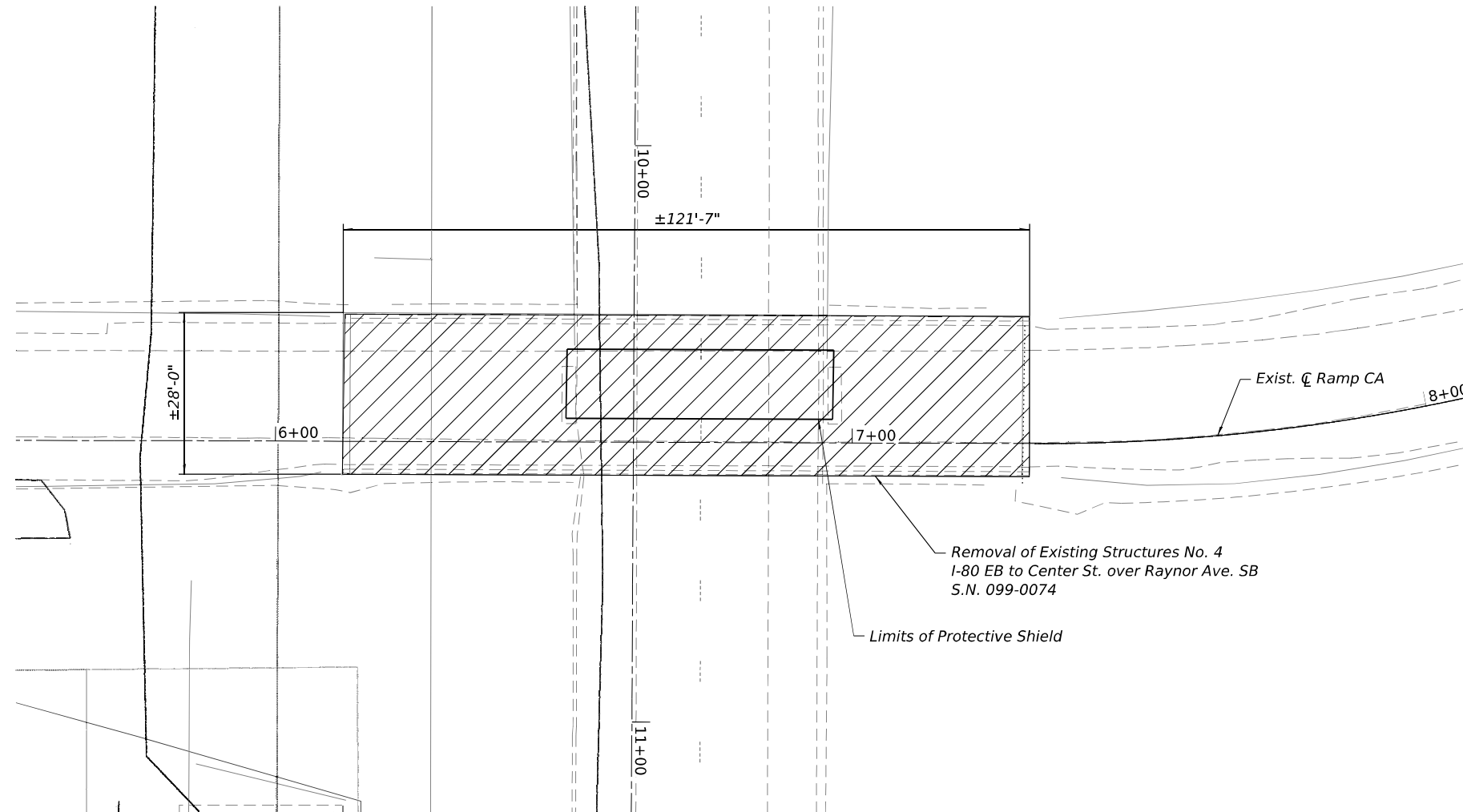
Existing Structure: S.N. 099-0074 is a ±121'-7" long back to back of abutments, three span structure originally built in 1961. The existing structure has a multi-beam non-composite superstructure with an overall width of ±28'-0". The existing pedestal abutments and existing piers are founded on spread footings.



ELEVATION



CROSS SECTION OF EXISTING SUPERSTRUCTURE



PLAN

LEGEND

Removal of Existing Structure

Notes:

- Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutments and piers down to a minimum elevation as noted in the plans.
- Deck slab repair areas are based upon 5% of the deck needing partial depth repairs. Actual location and size of patches to be placed shall be determined by the Engineer in the field at the time of construction and shown on As-built plans. See Special Provision "Bridge Deck Maintenance Patching".

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 4	Each	1
Protective Shield	Sq. Yd.	90
Deck Slab Repair (Partial)	Sq. Yd.	19

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 USER: ...
 DATE: ...

WSP
 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USSJ696614	DESIGNED - MHD	REVISED -
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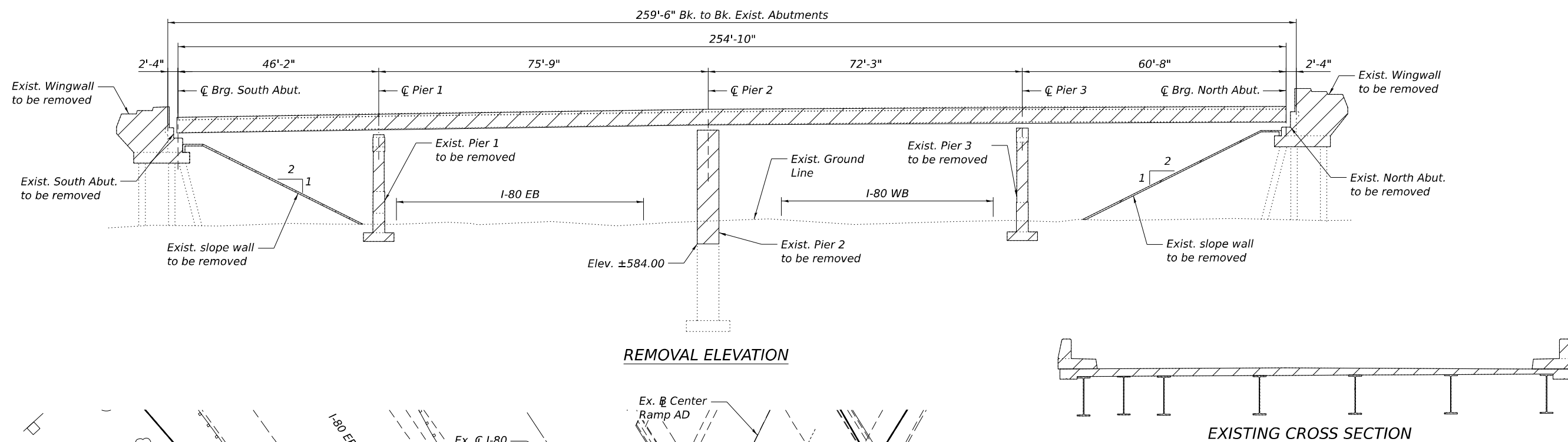
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURE NO. 099-0074
 BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS**

SHEET SN-5 OF SN-11 SHEETS

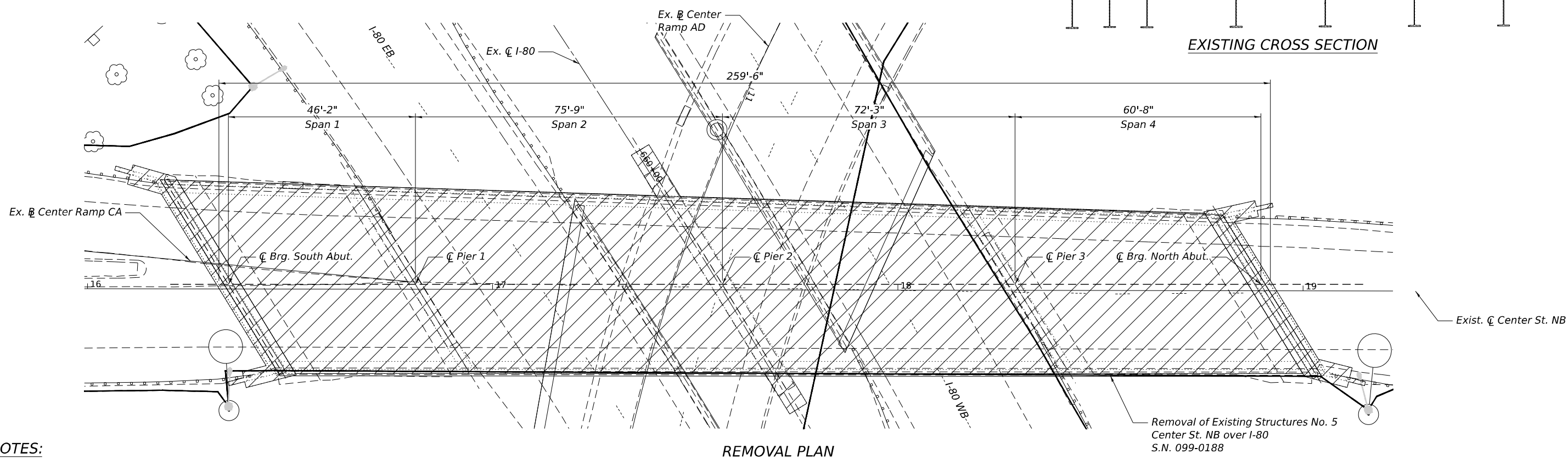
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80	FAI 80 21 INTERCHANGE	WILL	1209	814
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 099-0188 is a 259'-6" long back-to-back abutments, four span structure originally built in 1961. The existing structure has a multi-beam non-composite superstructure with a varying width of ±39'-5 1/2" to ±47'-10". The existing abutments are founded on piles and the multcolumn piers and straddle bent pier are founded on spread footings.



REMOVAL ELEVATION

EXISTING CROSS SECTION



REMOVAL PLAN

NOTES:

1. Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutments and piers down to a minimum elevation as noted in the plans.
2. Deck slab repair areas are based upon 5% of the deck needing partial depth repairs. Actual location and size of patches to be placed shall be determined by the Engineer in the field at the time of construction and shown on As-built plans. See Special Provision "Bridge Deck Maintenance Patching".
3. For substructure removal details, see sheets SN-7 through SN-10.
4. The existing metal handrail removal shall not be paid separately but shall be included in the cost of Removal of Existing Structures No. 5.

LEGEND

Removal of Existing Structures

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 5	Each	1
Deck Slab Repair (Partial)	Sq. Yd.	63



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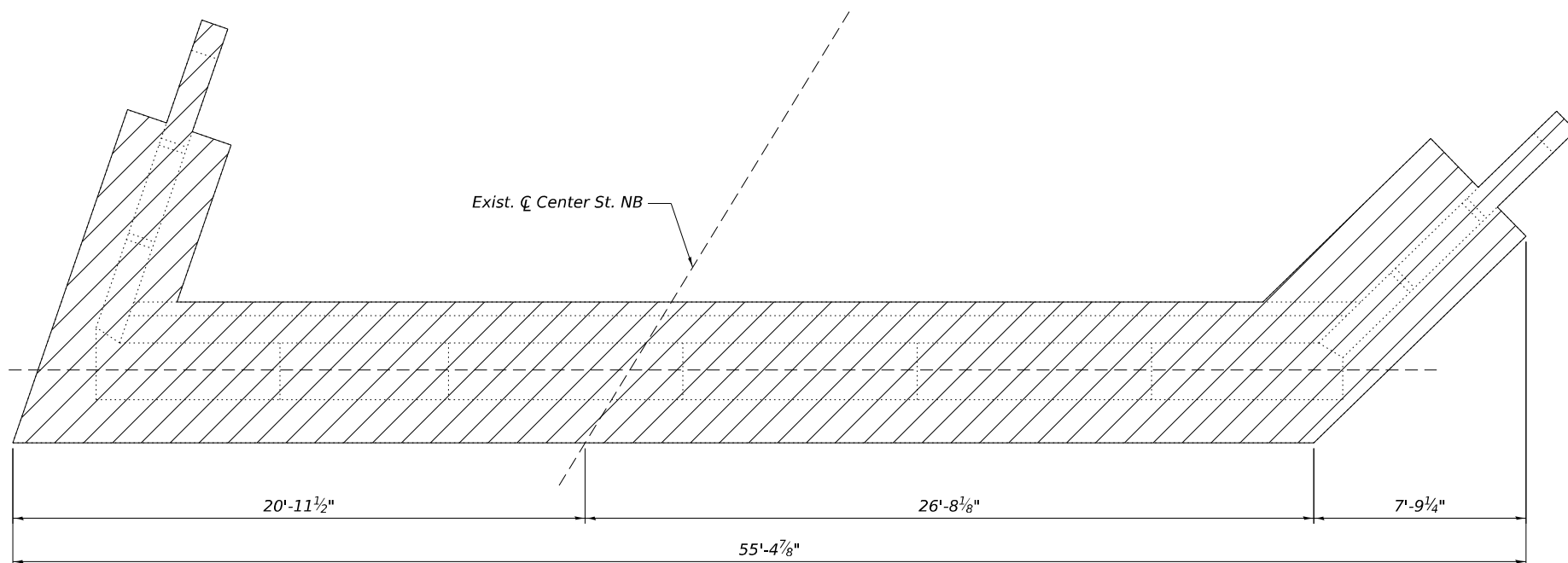
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE NO. 099-0188
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS**

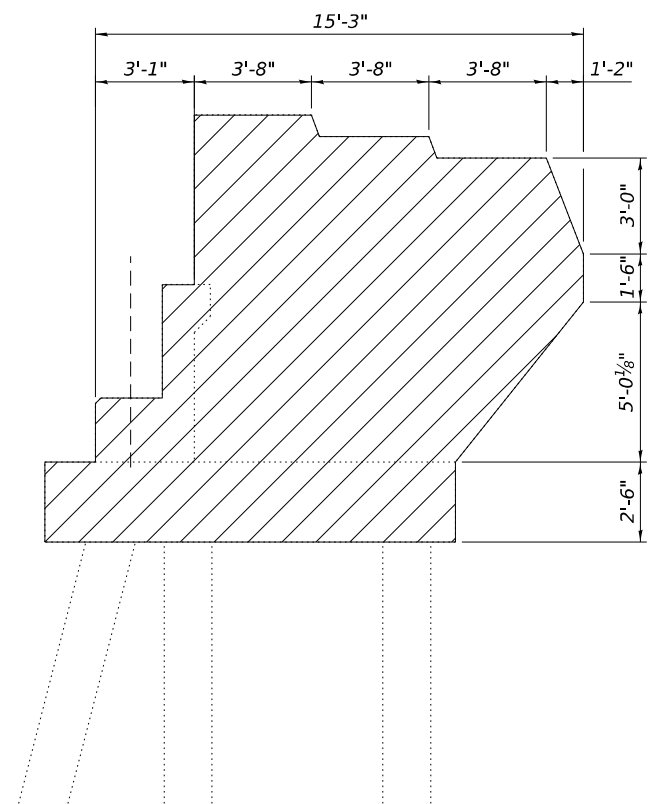
SHEET SN-6 OF SN-11 SHEETS

F.A.I. RTE. 80	SECTION FAI 80 21 INTERCHANGE	COUNTY WILL	TOTAL SHEETS 1209	SHEET NO. 815
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ILLINOIS FED. AID PROJECT				

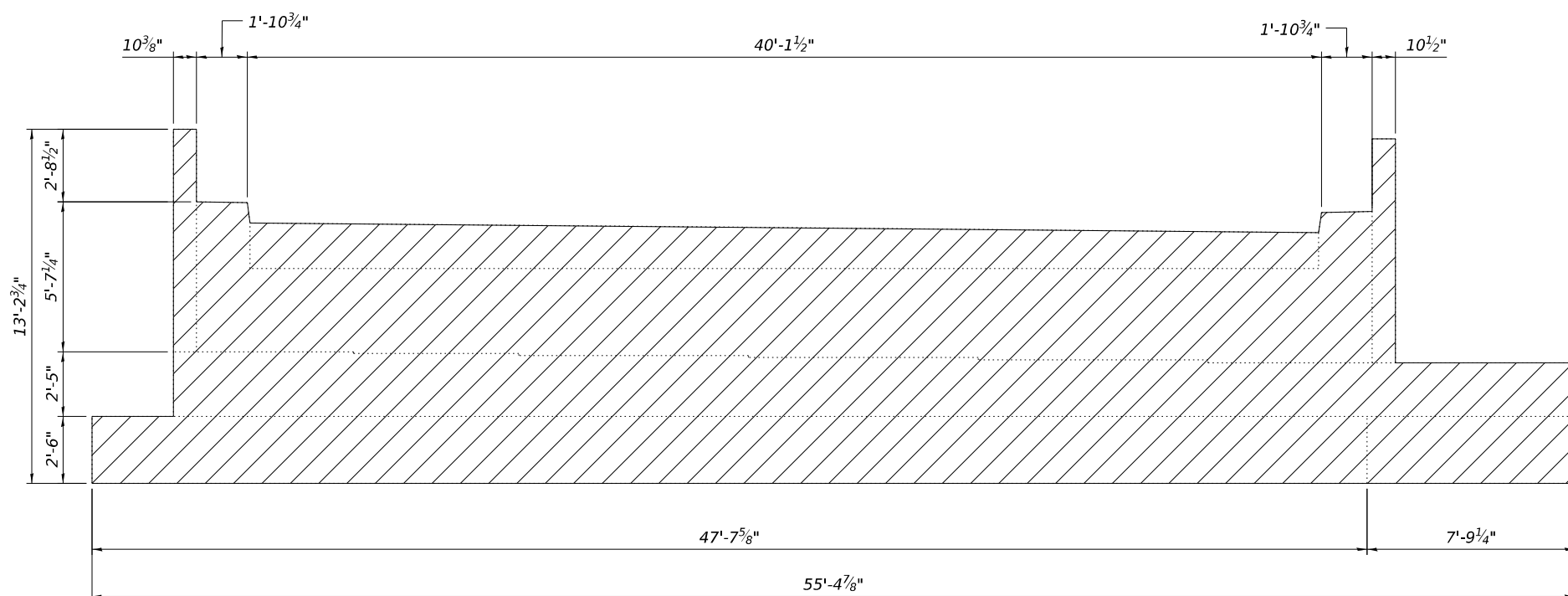
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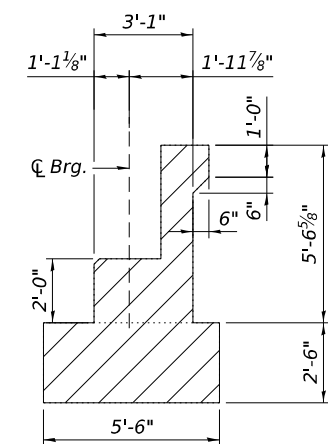
PLAN - NORTH ABUTMENT REMOVAL



ELEVATION - TYPICAL WINGWALL REMOVAL



ELEVATION - NORTH ABUTMENT REMOVAL

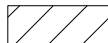


SECTION THRU NORTH ABUTMENT

NOTES:

- 1. Existing Piles shall not be removed.

LEGEND

 Removal of Existing Structures

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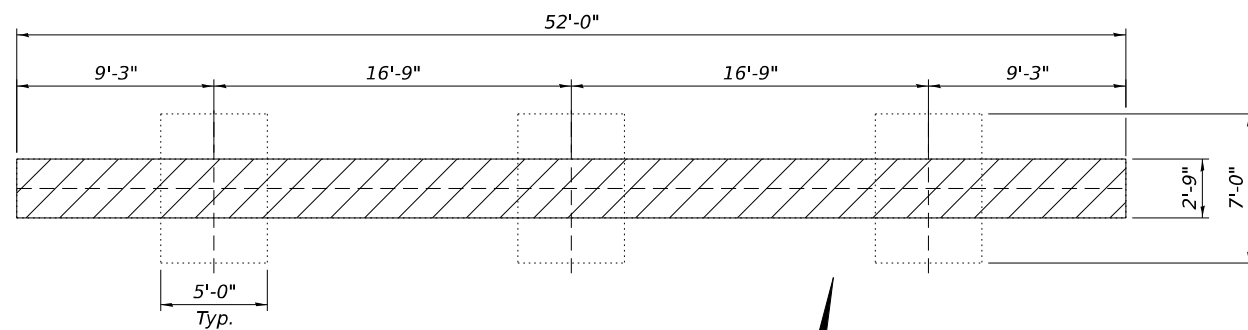
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

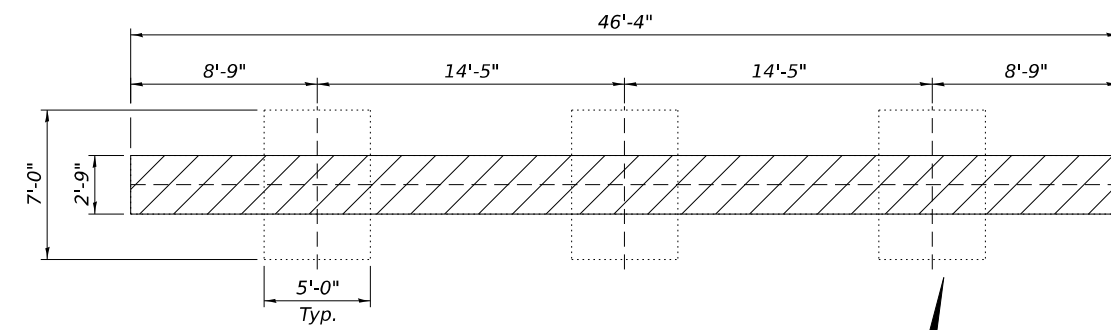
**STRUCTURE NO. 099-0188
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS**

SHEET SN-7 OF SN-11 SHEETS

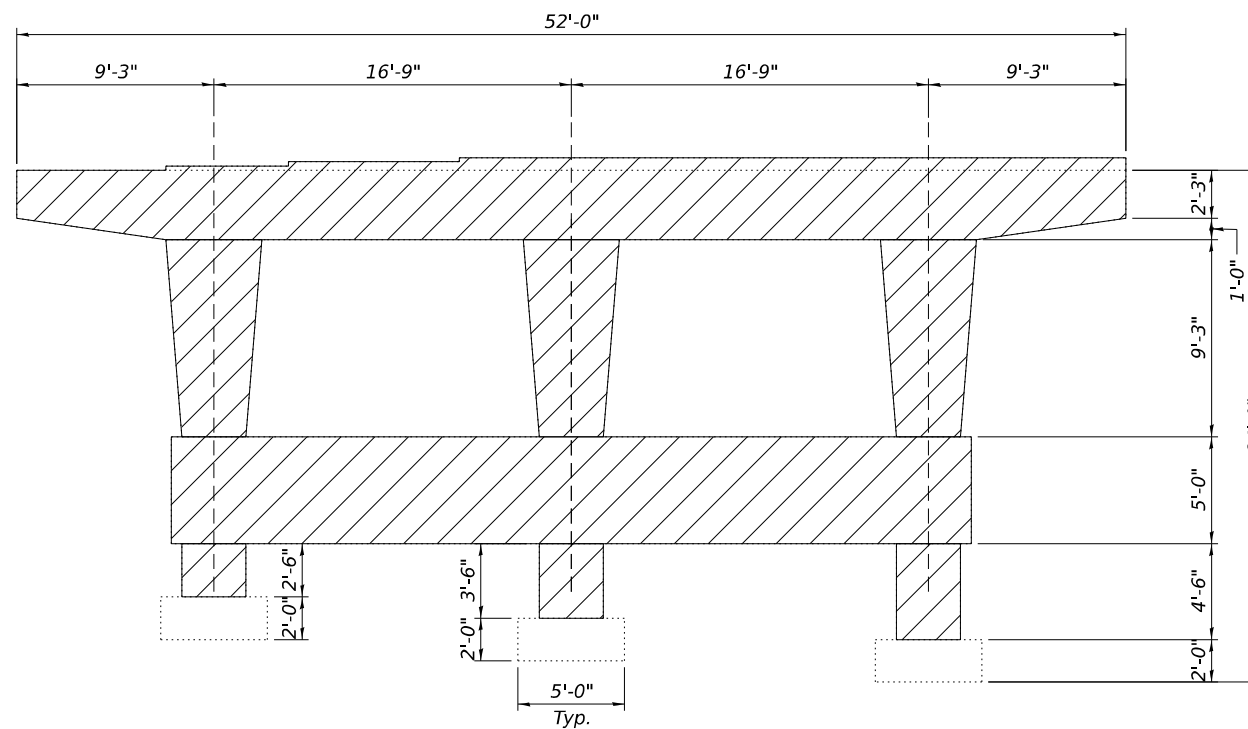
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80	FAI 80 21 INTERCHANGE	WILL	1209	816
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



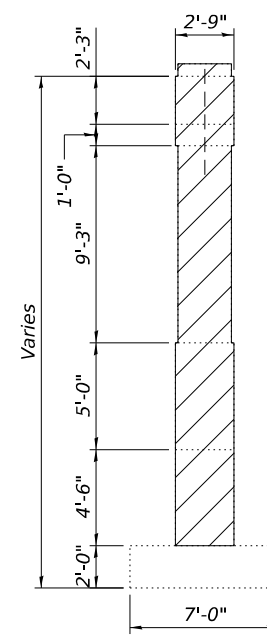
PLAN - PIER 1 REMOVAL



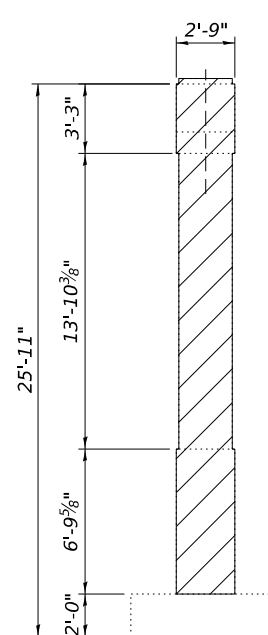
PLAN - PIER 3 REMOVAL



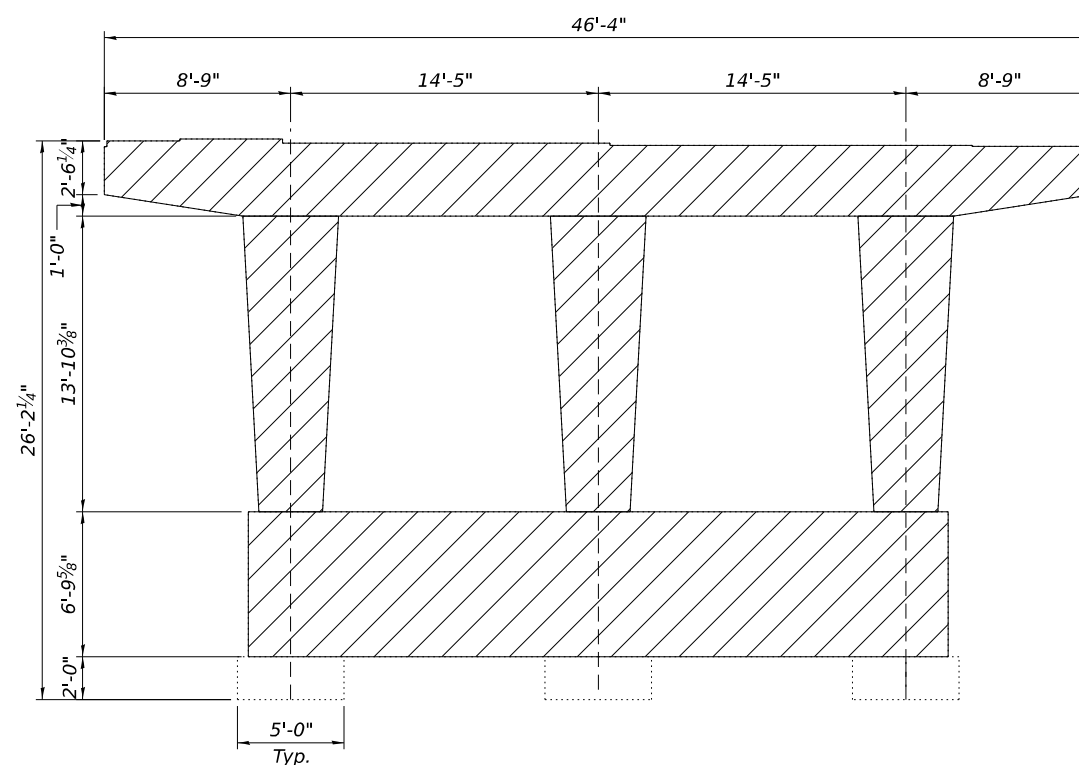
ELEVATION - PIER 1 REMOVAL



SIDE ELEVATION - PIER 1



SIDE ELEVATION - PIER 3



ELEVATION - PIER 3 REMOVAL

LEGEND

Removal of Existing Structures

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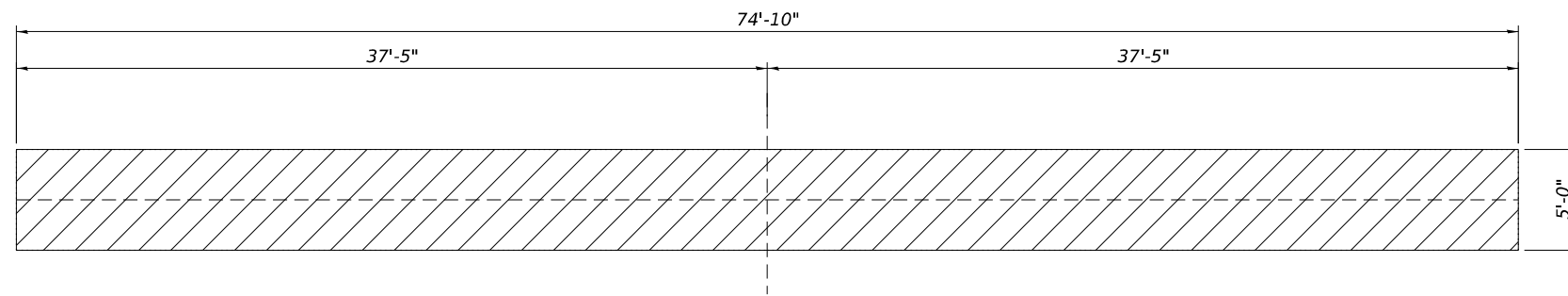
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

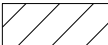
STRUCTURE NO. 099-0188
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS

SHEET SN-8 OF SN-11 SHEETS

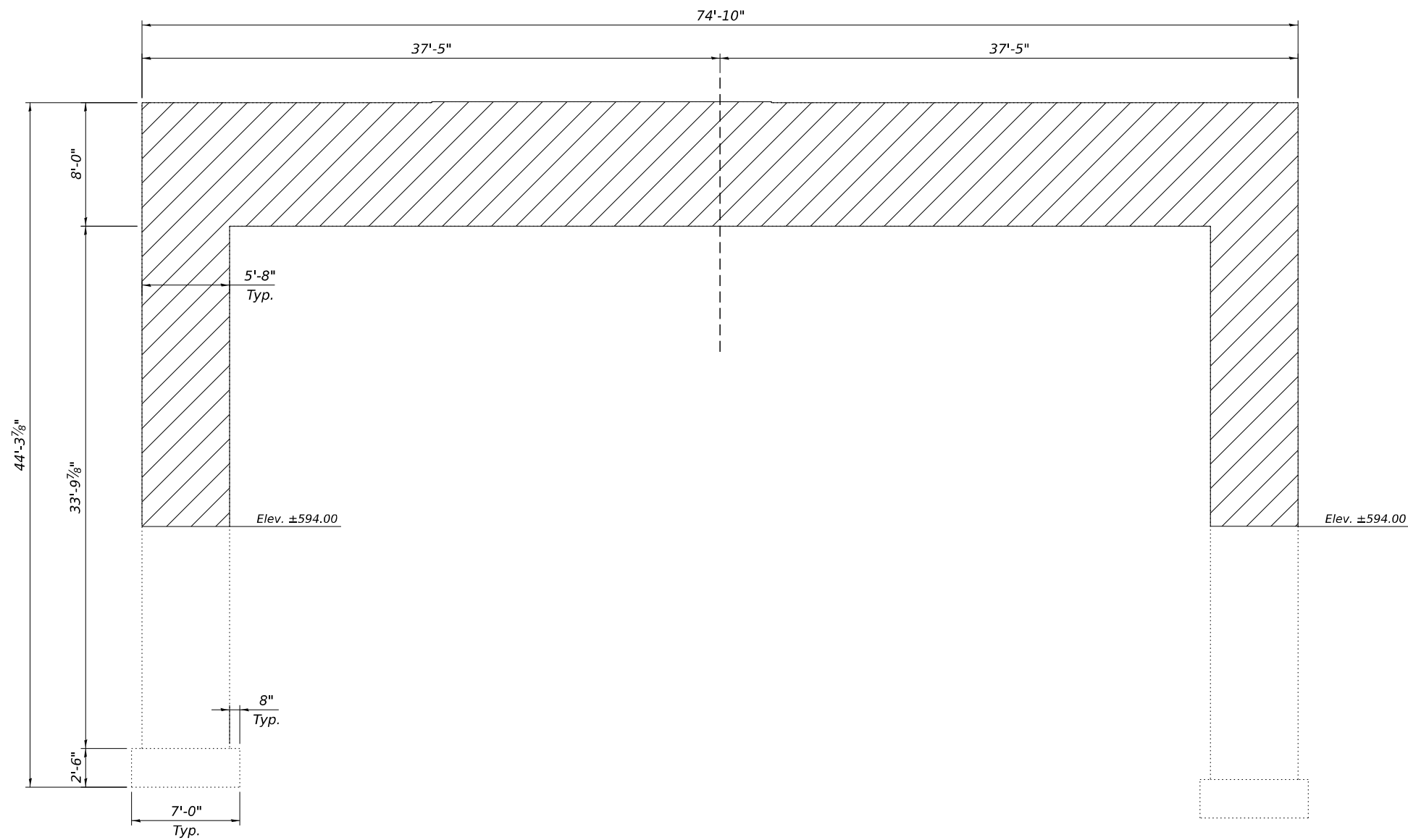
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80	FAI 80 21 INTERCHANGE	WILL	1209	817
			CONTRACT NO. 62R22	
		ILLINOIS FED. AID PROJECT		



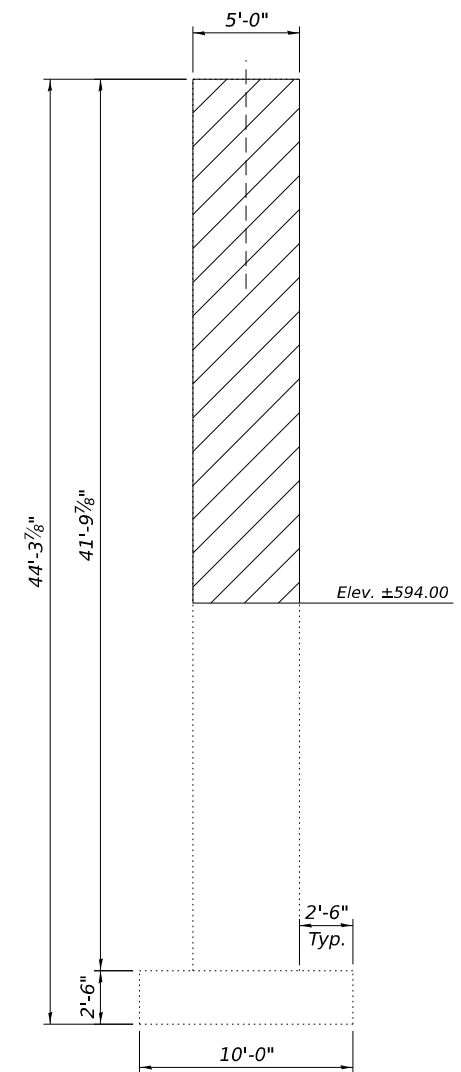
LEGEND

 Removal of Existing Structure

PLAN - PIER 2 REMOVAL



ELEVATION - PIER 2 REMOVAL



SIDE ELEVATION - PIER 2

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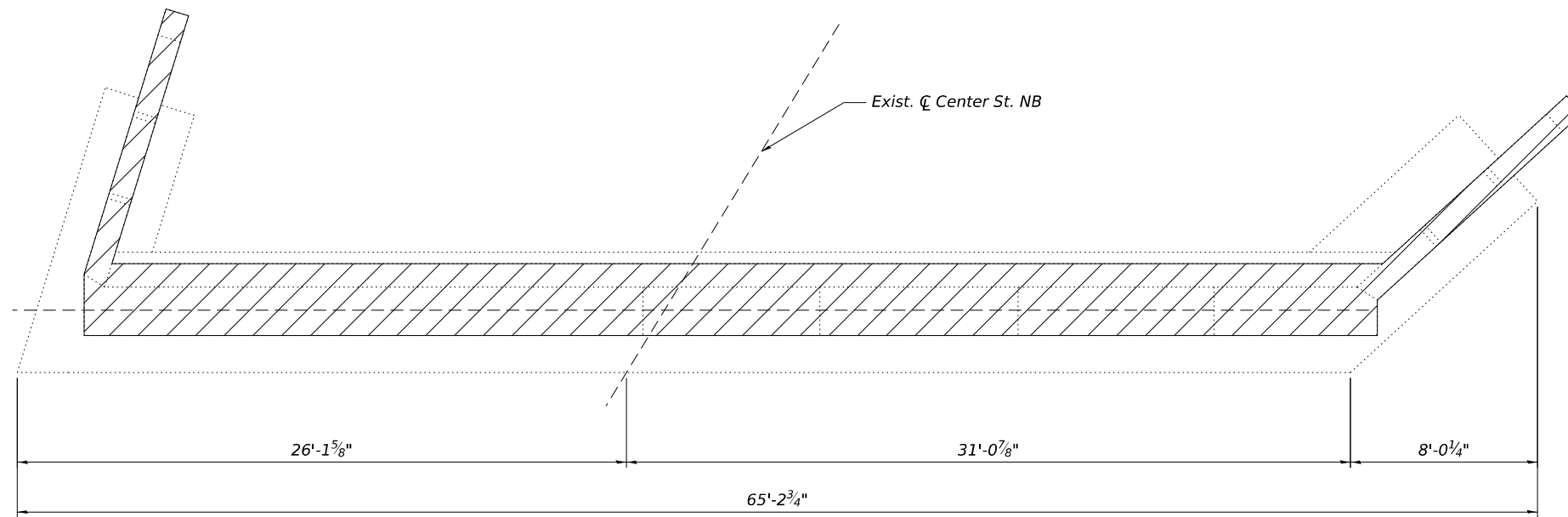
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

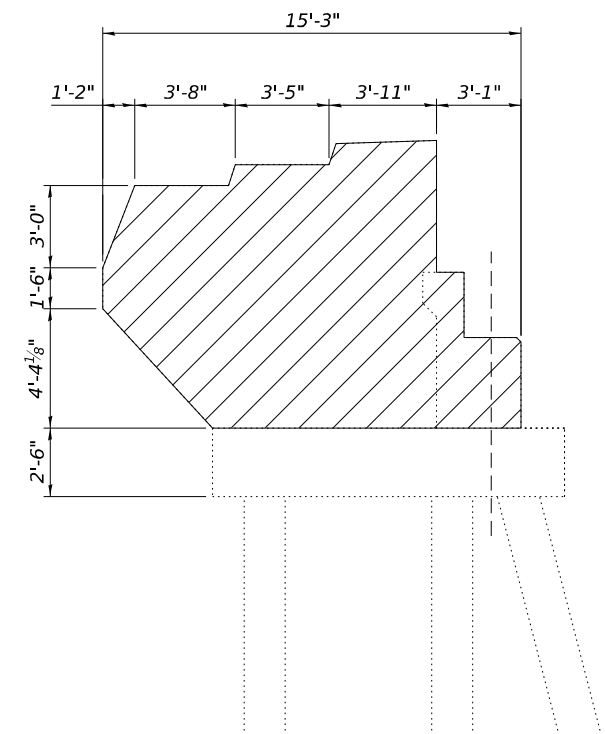
**STRUCTURE NO. 099-0188
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS**

SHEET SN-9 OF SN-11 SHEETS

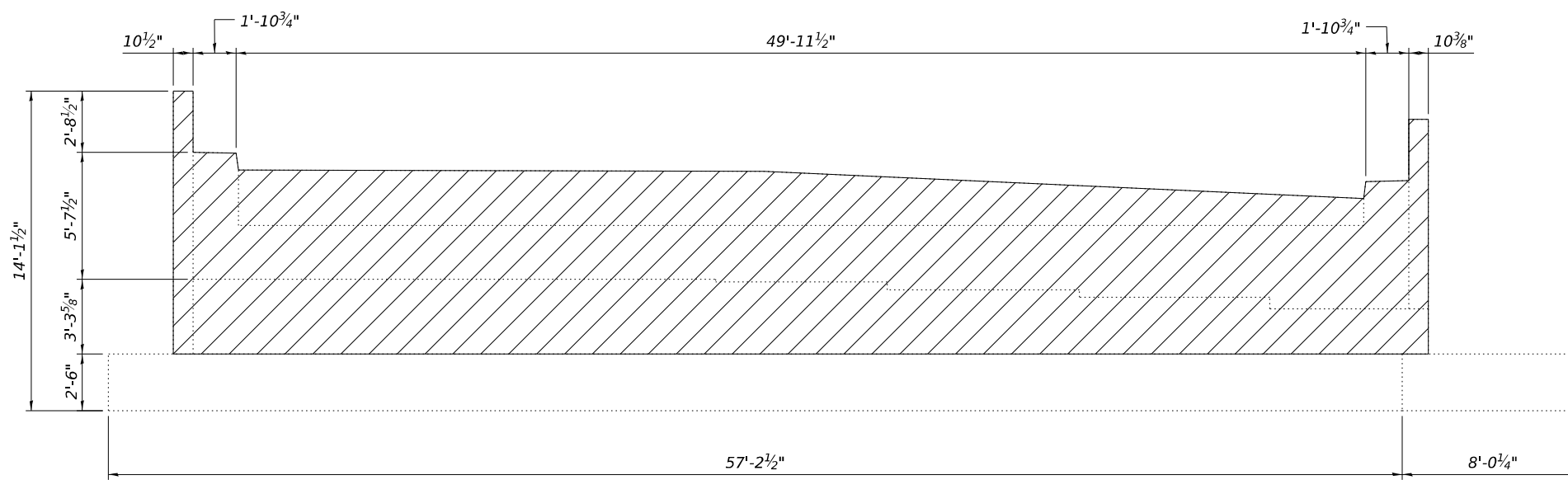
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80	FAI 80 21 INTERCHANGE	WILL	1209	818
			CONTRACT NO. 62R22	
		ILLINOIS FED. AID PROJECT		



PLAN - SOUTH ABUTMENT REMOVAL




SECTION THRU SOUTH ABUTMENT



ELEVATION - SOUTH ABUTMENT REMOVAL

LEGEND

 Removal of Existing Structures

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 Plot Scale: 7,000 x 1 in.
 User Name: USSJ696614
 Date: 6/14/2024
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 Drawn: PG
 Designed: PG



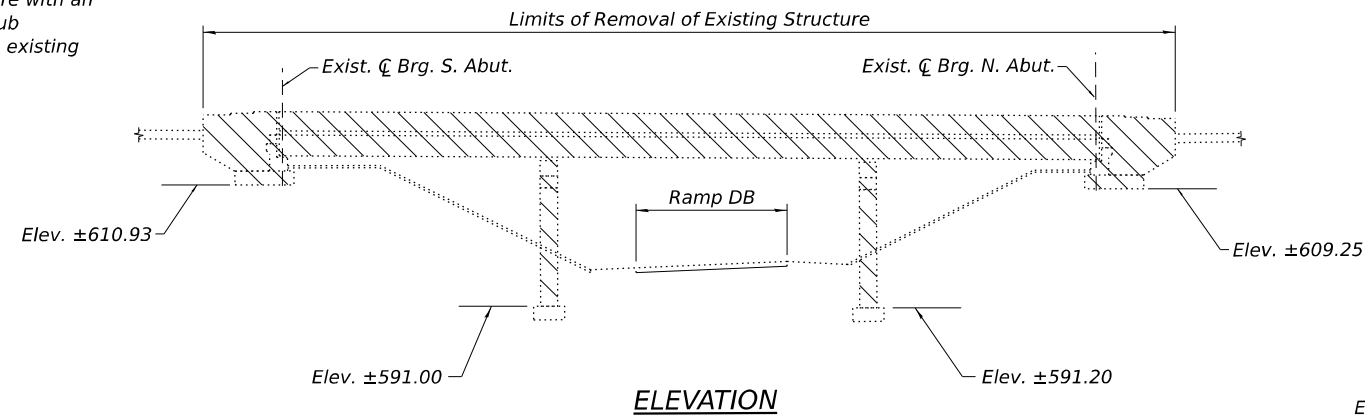
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

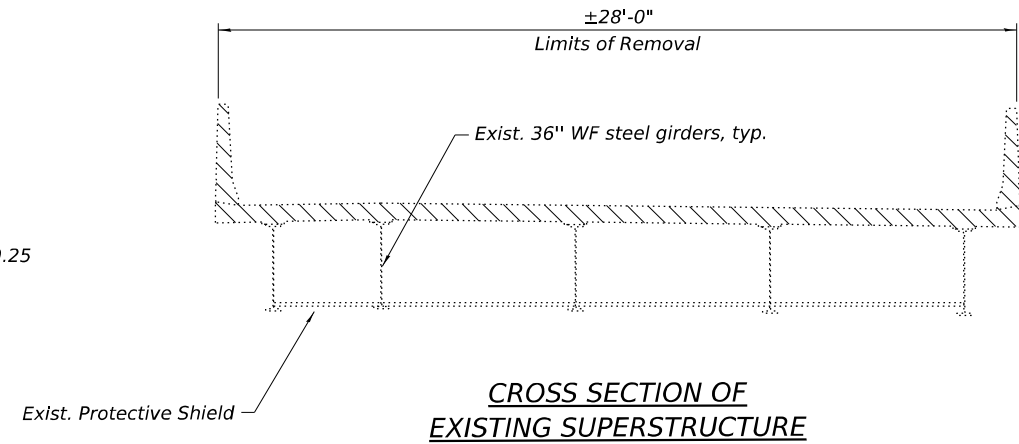
STRUCTURE NO. 099-0188
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS
 SHEET SN-10 OF SN-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	819
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				

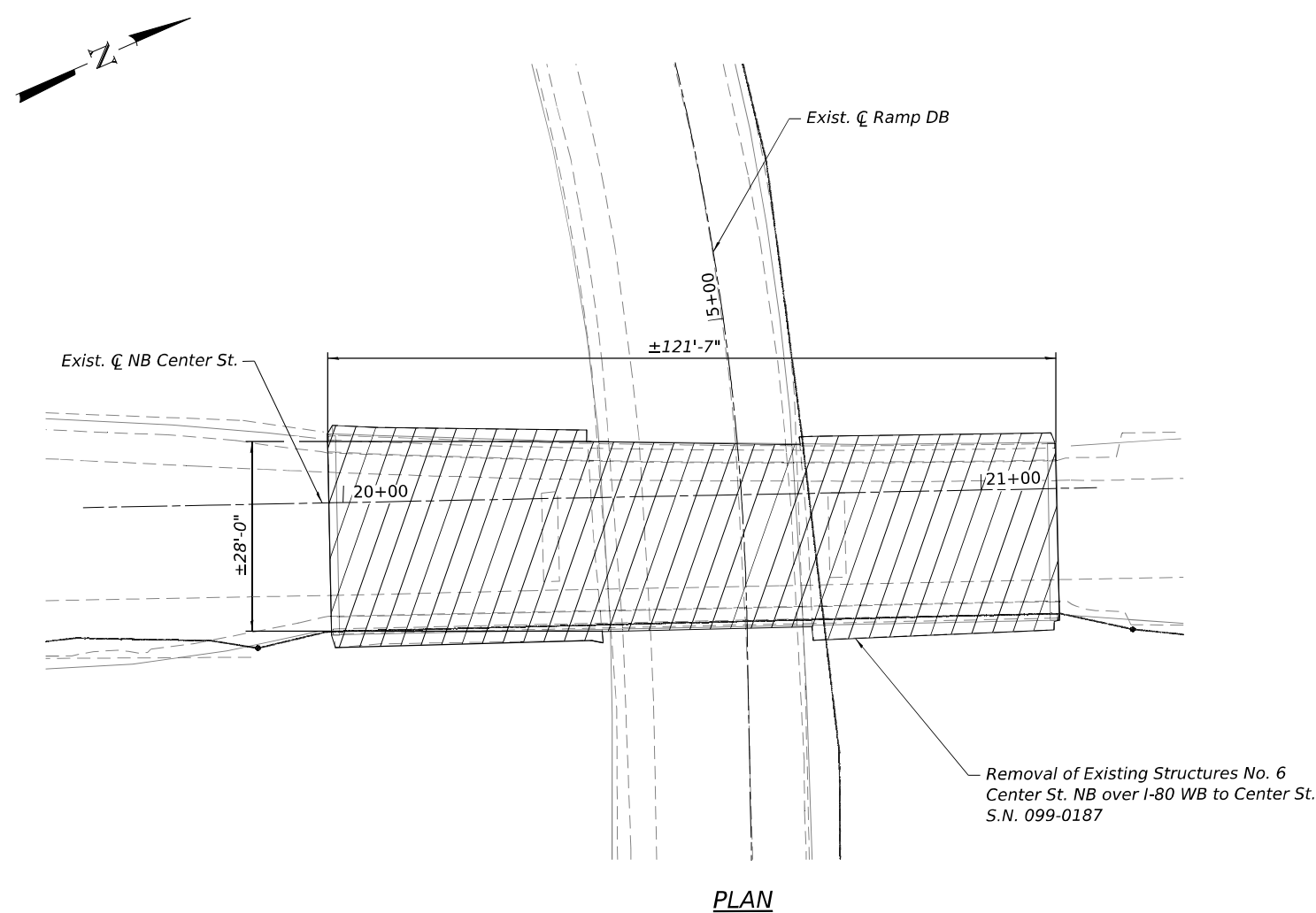
Existing Structure: S.N. 099-0187 is a ±121'-7" long back to back of abutments, three span structure originally built in 1961. The existing structure has a multi-beam non-composite superstructure with an overall width of ±28'-0". The existing stub abutments are founded on piles and the existing piers are founded on spread footings.



ELEVATION



CROSS SECTION OF EXISTING SUPERSTRUCTURE



PLAN

LEGEND

Removal of Existing Structure

Notes:

1. Removal of Existing Structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include concrete removal of the bridge concrete deck, superstructure, protective shield, and partial removal of the abutments and piers down to a minimum elevation as noted in the plans.
2. Deck slab repair areas are based upon 5% of the deck needing partial depth repairs. Actual location and size of patches to be placed shall be determined by the Engineer in the field at the time of construction and shown on As-built plans. See Special Provision "Bridge Deck Maintenance Patching".

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 6	Each	1
Deck Slab Repair (Partial)	Sq. Yd.	18

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WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USSJ696614	DESIGNED - MHD	REVISED -
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PLOT DATE = 4/22/2025	CHECKED - PJL	REVISED -
	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE NO. 099-0187
BRIDGE MAINTENANCE PATCHING & EXIST. STR. REMOVAL PLANS
 SHEET SN-11 OF SN-11 SHEETS

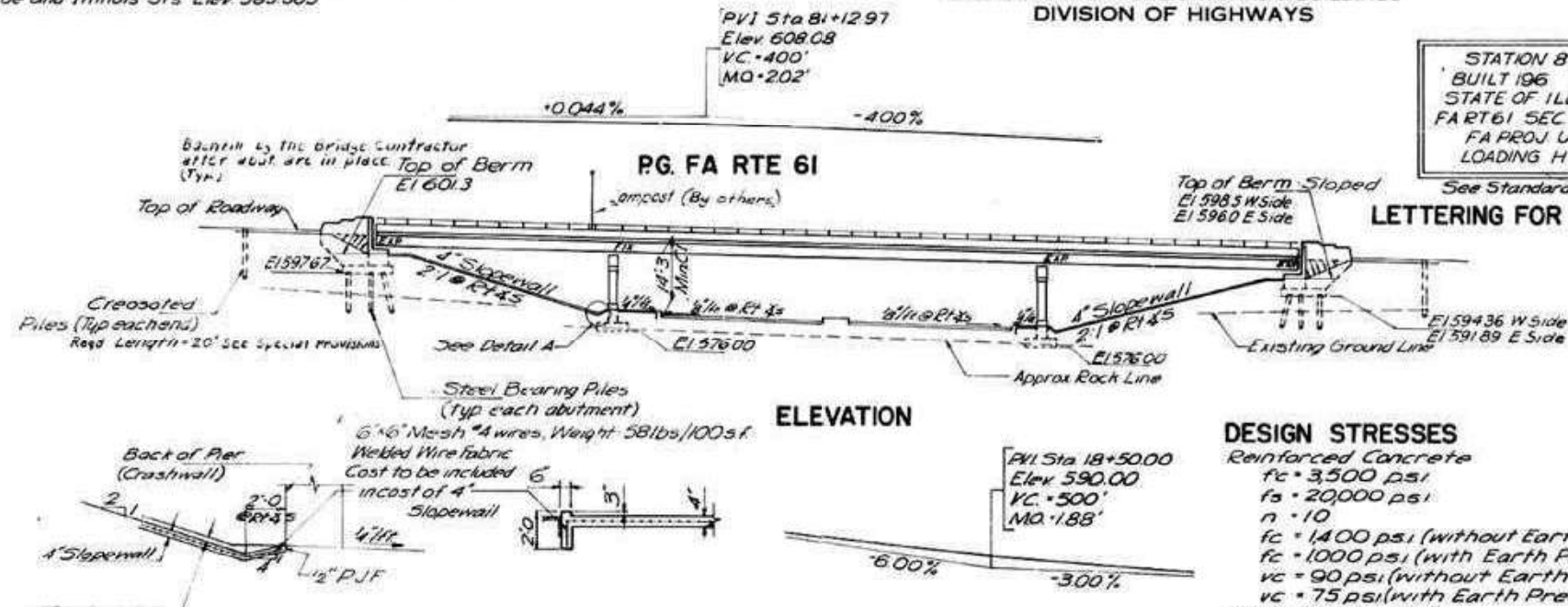
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			CONTRACT NO. 62R22	
		ILLINOIS FED. AID PROJECT		

Bench Mark No 46B Top of Ring (for chains to caps on outlets) on Fire Hydrant S Side Hyd, NW Corner Munroe and Illinois Sts Elev 585.365

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

ROUTE NO	SECTION	PROJECT	TOTAL SHEETS	SHEET NO.
80	21	U-184(2)	177	135

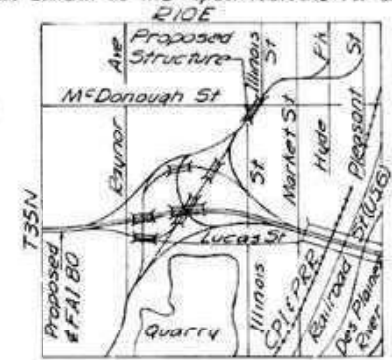
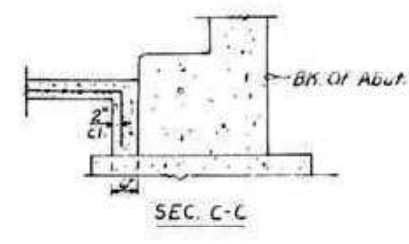
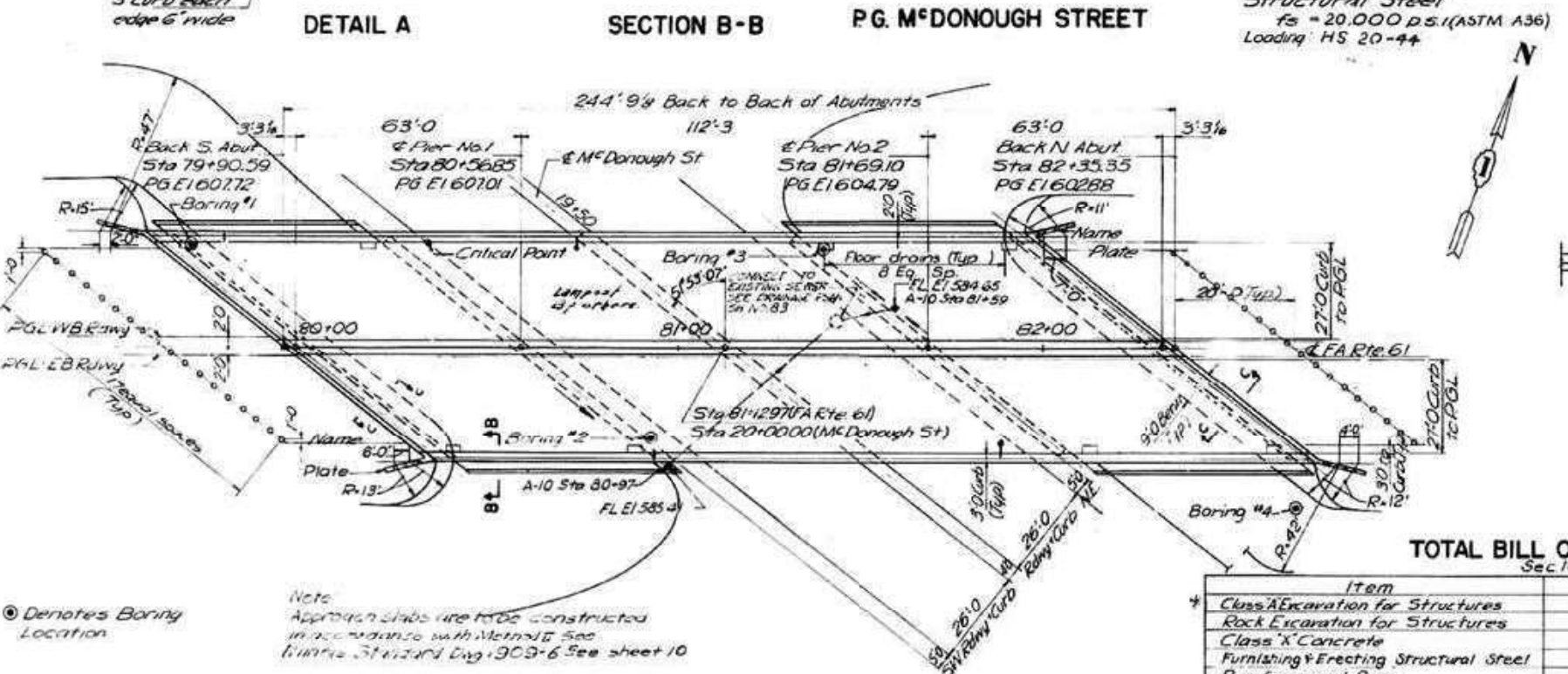
SHEET NO. 1
SHEETS 10



STATION 81+12.97
BUILT 196 BY
STATE OF ILLINOIS
PART 61 SEC 10413-2
FA PROJ U-184(2)
LOADING HS-20
See Standard 2113-1
LETTERING FOR NAME PLATE

GENERAL NOTES
Class X Concrete shall be used throughout Coarse aggregate used in parapets and end posts shall be free of chert, flint, limonite, lignite and soft sandstone.
The concrete floor slab shall be finished in accordance with Article 5119 of the Standard Specifications.
All welding shall comply with the requirements of the Standard Specifications for Welded Highway and Railway Bridges, of the American Welding Society.
All Rockers, Bolsters, Bearing Plates, Lead Plates, Pintles, and Anchor Bolts shall be fabricated and set in accordance with Article 5115 of the Standard Specifications and are included in quantity of Structural Steel.
Anchor Bolts shall be set before connecting diaphragms over support. Space reinforcing to miss Anchor Bolts.
Expansion guards and plates shall be fabricated and erected in accordance with Article 5113(d) of the Standard Specifications and are 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 561 to 565 inclusive of the Standard Specifications.
All surfaces of expansion guards inaccessible after erection shall be given two shop coats of red lead paint. The 3/4" φ welded studs shall not be painted.
The Contractor shall drive two (2) test piles in permanent locations as directed by the Engineer, before ordering remainder of piles. One each of either one of the East and West Abutments.
No rock larger than 3" shall be placed in fills in the area where piles are to be driven.
All steel bearing piles are to be driven to refusal. Everts shall be 3/4" φ with 1/2" φ open holes unless noted.
Structural steel shall conform to the specifications for structural steel, ASTM - A36.

DESIGN STRESSES
Reinforced Concrete
fc = 3,500 psi
fs = 20,000 psi
n = 10
fc = 1,400 psi (without Earth Pressure)
fc = 1,000 psi (with Earth Pressure)
vc = 90 psi (without Earth Pressure)
vc = 75 psi (with Earth Pressure)
Structural Steel
fs = 20,000 psi (ASTM A36)
Loading HS 20-44



TOTAL BILL OF MATERIALS
Sec 10 Str 7

Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu Yd	361	361	361
Rock Excavation for Structures	Cu Yd	27	27	27
Class X Concrete	Cu Yd	436.0	594.8	1030.8
Furnishing & Erecting Structural Steel	Lb	608,970	—	608,970
Reinforcement Bars	Lb	118,500	57,770	176,270
Fur. Creo Piles up to 20ft	Lin Ft	—	720	720
Driving Timber Piles	Lin Ft	—	720	720
Furnishing Steel Piles 10BP42	Lin Ft	—	1040	1040
Test Piles Steel 10BP42	Each	—	2	2
Driving Steel Piles	Lin Ft	—	1040	1040
Name Plates	Each	—	2	2
Sloped Wall 4"	Sq Yd	—	1154	1154
Aluminum Handrail	Lin Ft	—	483	483
Bridge Seat Sealing	Lump Sum	—	0.1	0.1
Protective Coat	Sq Yd	1880	—	1880

LOCATION PLAN
Note: Excavation for portions of structure in the embankments shall not be classified.

GENERAL PLAN & ELEVATION
FA 61 OVER
M'DONOUGH STREET
FA 61 STA. 81+12.97
FA ROUTE 81 PROJECT U-184(2)
SECTION 10 WILL COUNTY
Str 7
Scale NO SCALE Date NOV 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED	GMV
CHECKED	CS
DRAWN	GMV
CHECKED	HSP

Prepared and recommended by Blauvelt Engineering Co. Structural Engineer #81-2251
Class X Concrete

Revised Change length of Creo Piles from 21' to 20'
Change length of driving Creo piles from 710 to 720 lin ft
11/25/61

Rev 12-19-62 Prof. Cost = 1580 by Yd. SFM
12-16-64 J.M.J. Rev. class x conc 10304 to 10308 cu yds, rebar from 168170 to 116,270
slope wall from 1154 to 1154 sq yd. added bridge seat sealing.

FOR INFORMATION ONLY

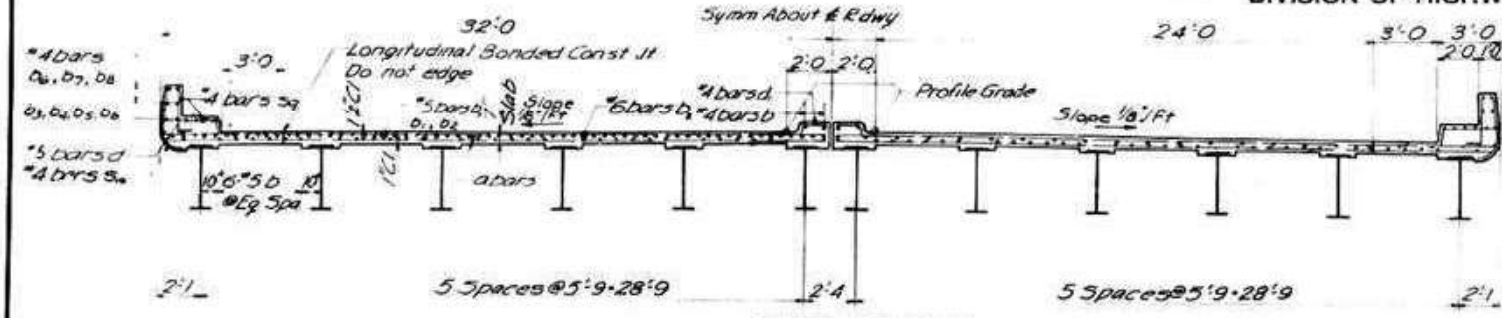


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

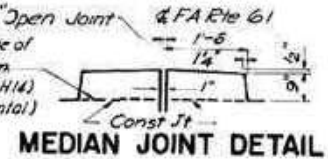
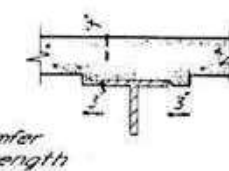
EXISTING BRIDGE PLANS
SHEET 1 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	821
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



CROSS SECTION

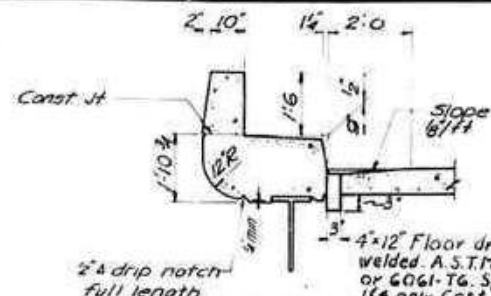
After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at int shown on DL Defl Diag from these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals the fillet heights above top of beam.



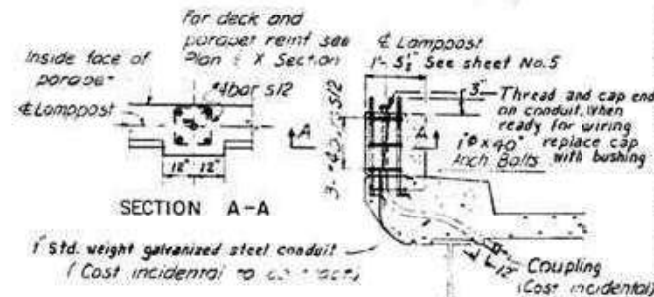
BILL OF MATERIALS

Class X Concrete	Cu Yds	4360
Reinf. Bars	Lbs	118,500
Structural Steel	Lbs	608970

Structural Steel includes weight of rockers, bolsters, bearing plates, lead plates, pintles, and anchor bolts. Estimated Wt = 14,530



CURB DETAIL

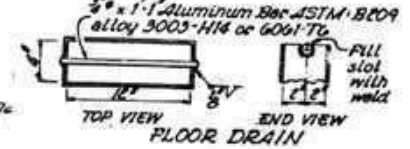


DETAILS AT LAMPOST

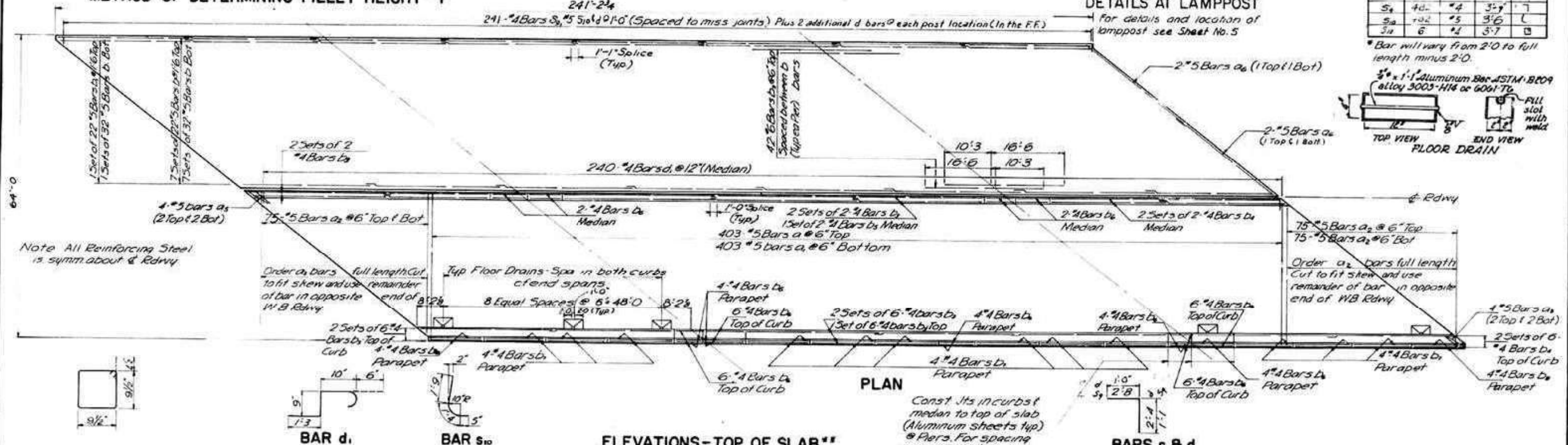
BILL OF REINFORCEMENT

Bar No	Size	Lpth	Shape
a	5/8	31'8"	
a	5/8	31'2"	
a2	5/8	32'0"	
b	5/8	4'0"	
b	5/8	26'6"	
b	5/8	30'0"	
b	5/8	38'6"	
b	5/8	26'9"	
b	5/8	30'0"	
b	5/8	28'0"	
b	5/8	39'0"	
b	5/8	7'0"	
b	5/8	14'6"	
b	5/8	11'6"	
d	5/8	3'8"	
d	5/8	3'4"	
s	5/8	3'7"	
s	5/8	3'6"	
s	5/8	3'7"	

*Bar will vary from 2'0" to full length minus 2'0".



METHOD OF DETERMINING FILLET HEIGHT "f"



PLAN

ELEVATIONS - TOP OF SLAB

Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	60163	60158	60152	60146	60138	60128	60118	60107	60695	60680	60668	60653	60637	60619	60601	60587	60561	60540	60516	60492	60466	60440	60412	60383
B	60166	60160	60154	60146	60137	60128	60117	60105	60692	60679	60663	60647	60630	60612	60593	60573	60552	60529	60505	60480	60454	60427	60398	60369
C	60168	60162	60155	60146	60137	60128	60117	60105	60692	60679	60663	60647	60630	60612	60593	60573	60552	60529	60505	60480	60454	60427	60398	60369
D	60170	60163	60155	60146	60135	60124	60111	60098	60684	60668	60651	60634	60616	60598	60576	60554	60531	60508	60482	60455	60427	60399	60371	60343
E	60171	60163	60153	60144	60133	60121	60108	60095	60684	60668	60651	60634	60616	60598	60576	60554	60531	60508	60482	60455	60427	60399	60371	60343
F	60172	60163	60154	60143	60131	60118	60104	60091	60683	60667	60650	60633	60615	60597	60575	60553	60530	60507	60481	60454	60426	60398	60370	60342
G	60176	60161	60151	60140	60128	60114	60100	60087	60682	60666	60649	60632	60614	60596	60574	60552	60529	60506	60480	60453	60425	60397	60369	60341
H	60175	60148	60137	60125	60112	60098	60083	60069	60681	60665	60648	60631	60613	60595	60573	60551	60528	60505	60479	60452	60424	60396	60368	60340
J	60145	60134	60123	60110	60097	60083	60069	60054	60680	60664	60647	60630	60612	60594	60572	60550	60527	60504	60478	60451	60423	60395	60367	60339
K	60132	60121	60108	60095	60081	60066	60051	60036	60679	60663	60646	60629	60611	60593	60571	60549	60526	60503	60477	60450	60422	60394	60366	60338
L	60118	60106	60093	60079	60064	60049	60034	60019	60678	60662	60645	60628	60610	60592	60570	60548	60525	60502	60476	60449	60421	60393	60365	60337
M	60104	60092	60079	60065	60050	60035	60020	60005	60677	60661	60644	60627	60609	60591	60569	60547	60524	60501	60475	60448	60420	60392	60364	60336

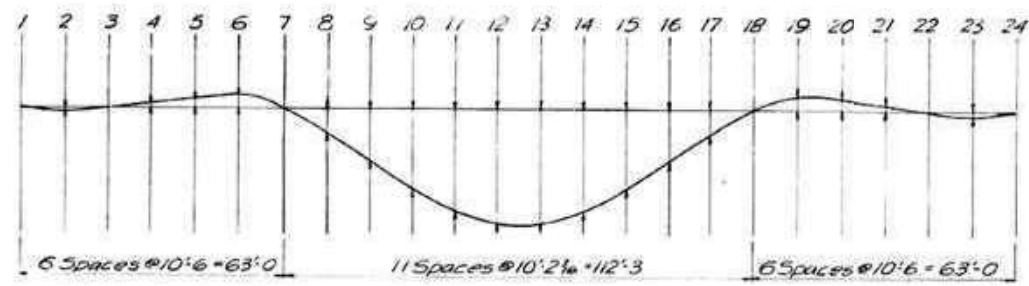
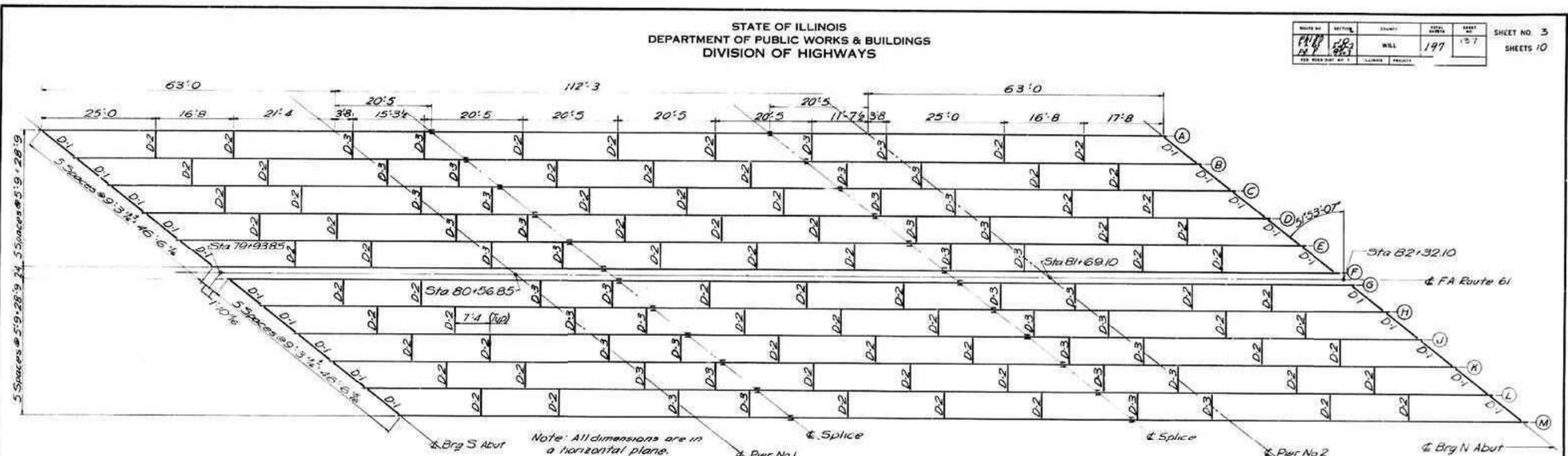
** Where Curb or Raised Median is over stringer, elevation shown is that of the projection of top of slab along its cross slope

12-1-64 J.M.J. Rev. #4 sio'd @ 15' cts to #5 @ 1'0"; #4 sio'd cts to #4 @ 12' cts and rebar from 115,410 to 118,500 lbs.

SLAB PLAN & CROSS SECTION

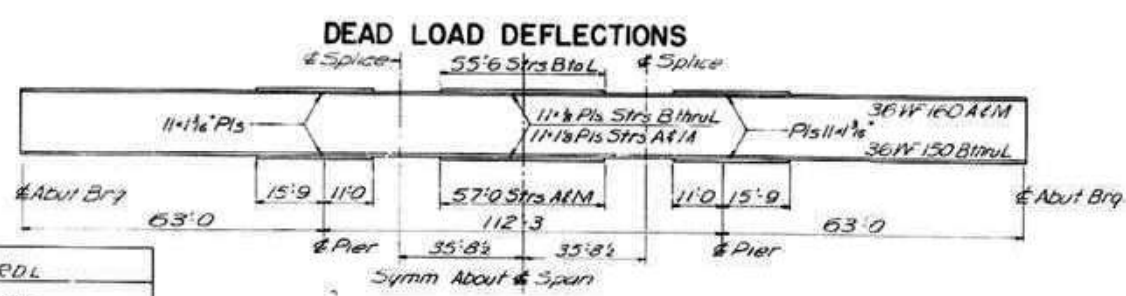
FA 61 OVER
MCDONOUGH STREET
FA 61 STA. 81+1297
PROJECT
WILL COUNTY
DATE NOV. 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



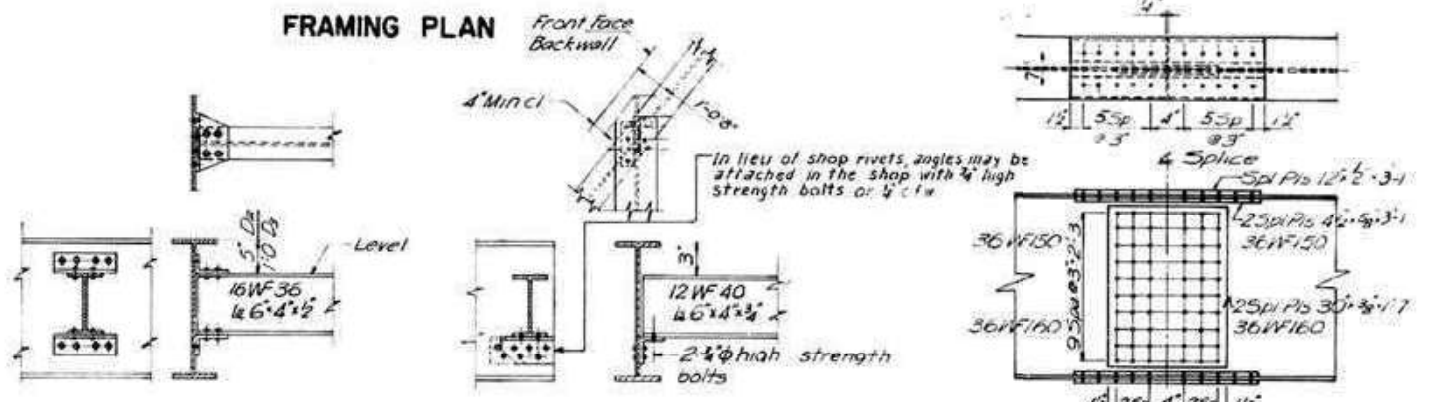
PI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Str	24.23	4.47	5.42	6.41	8.17	9.16	10.15	11.14	12.13																
A & M	00035	00064	00136	00187	00314	00651	01079	01369	01549																
B thru L	00025	00046	00097	00134	00235	00486	00807	01021	01159																

Δ = Dead load deflection in feet due to weight of slab

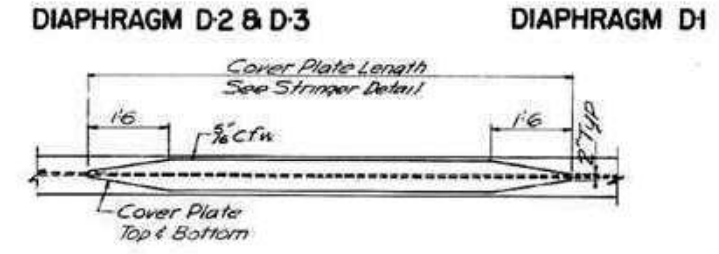


DESIGNED **RDL**
CHECKED **CS**
DRAWN **GMN**
CHECKED **HSP**

Revised - Remove note regarding Struct Steel A-333



NOTE: For top of stringer elevations see Sheet 4.



COVER PLATE DETAIL
At Span 2 and At Piers 1 and 2
For Cover Plate Length See Stringer Detail

**FRAMING PLAN AND STEEL DETAILS
FA 61 OVER
McDONOUGH STREET
FA 61 STA. 81+12.97**

PROJECT: WILL COUNTY
DATE: NOV. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

Model: Default
File Name: p:\transys\scorp\ppl\hatched\Documents\projects_2013\8-C4-401\40118002703\MSD\CADD\62R22-INT-4 (Center)\Structural\Framing_Bridge_Plan_0900186_62R22-5.tbl\62R22-3.dwg

USER NAME	DESIGNED	REVISION
USCP702533	RDL	
	CS	
	GMN	
	HSP	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

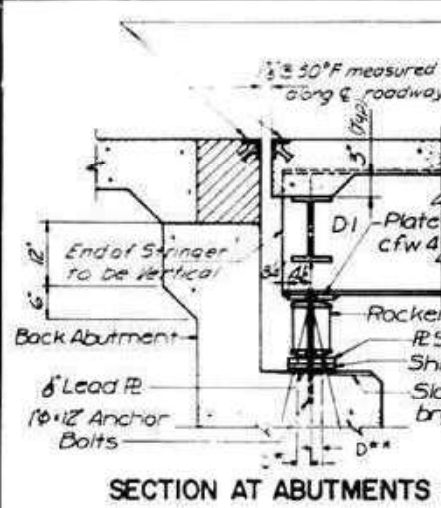
EXISTING BRIDGE PLANS
SHEET 3 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	823
				CONTRACT NO. 62R22

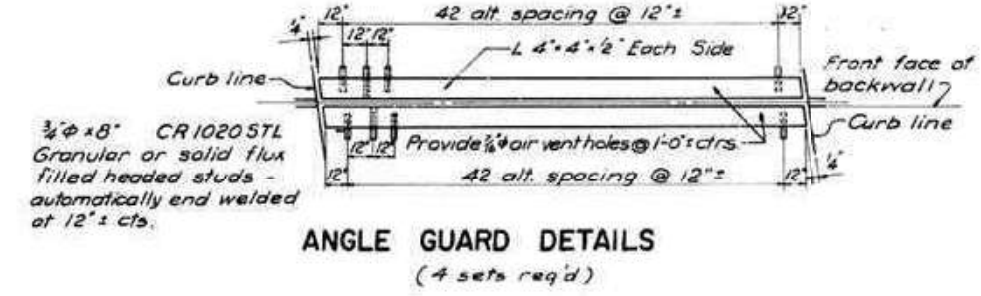
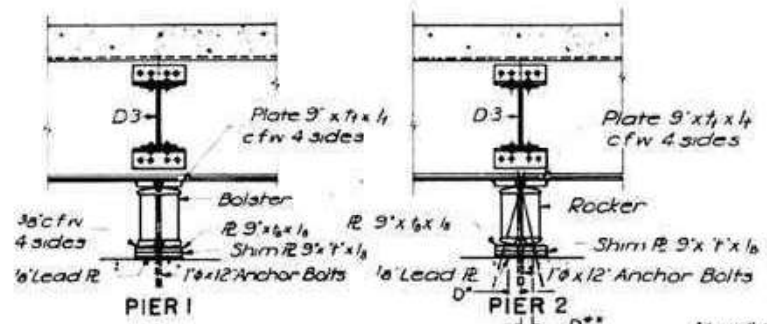
ILLINOIS FED. AID PROJECT

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

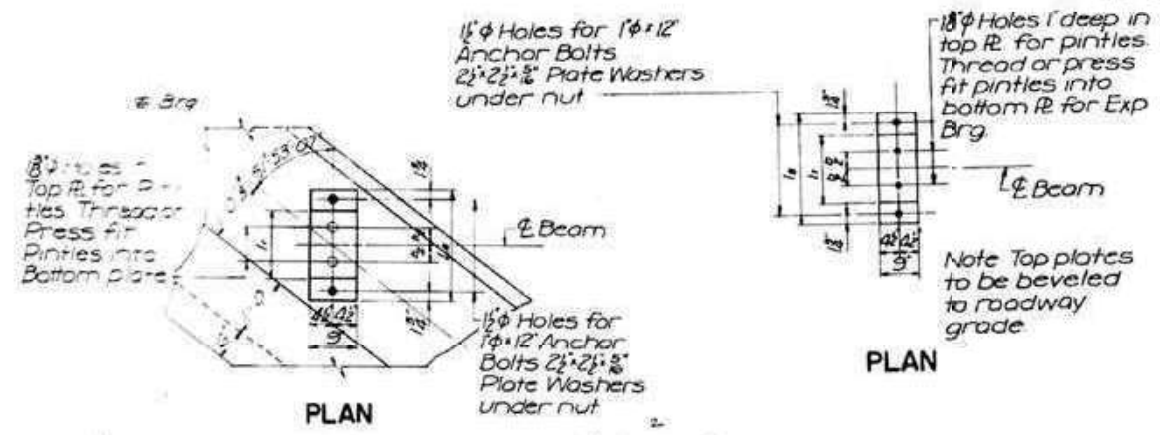
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	10	WILL	197	108
SHEET NO. 4 SHEETS 10				



Angles shall be held securely in place while pouring concrete with $\frac{3}{8}$ " bolts in $\frac{3}{4}$ " holes set on gage line at 12" ctrs. All bolts shall be burned, sawed or clipped flush with back of angle after forms are removed.



ANGLE GUARD DETAILS
(4 sets req'd)

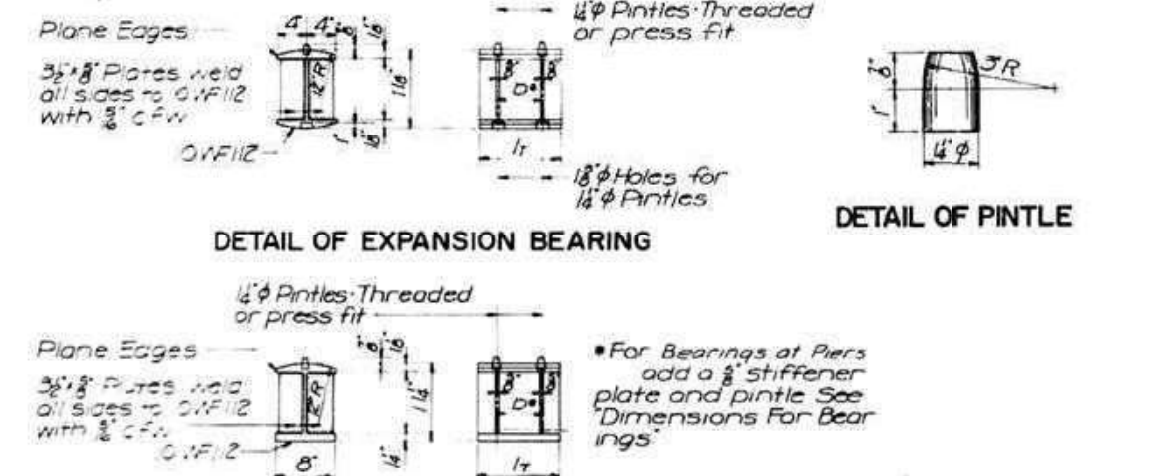


1" x 12" Anchor Bolts to be grouted into drilled holes after beams are in place, or bolts at fixed pier may be built into the masonry.
D* = $\frac{1}{8}$ " 1100 ft. of exp. for every 15°F below the normal temp of 50°F.
D** = $\frac{1}{8}$ " 1100 ft. of exp. for every 15°F above the normal temp of 50°F.

AS AWARDED
TOP OF STRINGER ELEVATIONS

S	ABUT	PIER 1	SPLICE	SPLICE	PIER 2	N	ABUT
A	606.90	606.43	606.22	605.09	604.67	603.10	
B	606.94	606.45	606.20	605.01	604.57	602.97	
C	606.96	606.42	606.16	604.92	604.47	602.81	
D	606.98	606.39	606.12	604.92	604.36	602.65	
E	606.99	606.36	606.07	604.72	604.24	602.49	
F	607.00	606.32	606.01	604.61	604.12	602.32	
G	606.97	606.28	605.96	604.54	604.04	602.23	
H	606.85	606.17	605.78	604.31	603.79	601.93	
J	606.73	605.94	605.60	604.07	603.53	601.63	
K	606.60	605.76	605.40	603.82	603.27	601.32	
L	606.46	605.58	605.20	603.57	603.01	601.01	
M	606.31	605.38	604.99	603.30	602.72	600.64	

These elevations are at top of top flange of stringers (exclusive of cover and splice plates) and are for fabrication of structural steel (no allowance for deflections).



DETAIL OF FIXED BEARING

Plane Edges: 3/8" x 8" Plates weld all sides to 1/2" x 12" with 3/8" c/w.

*For Bearings at Piers add a 3/8" stiffener plate and pintle. See "Dimensions For Bearings".

DIMENSIONS FOR BEARINGS

Str	Location	Type	l ₁	l ₂	c/w	t ₁	t ₂	d
A thru M	S&N Abut	Exp	13"	20"	3/8"	1 1/2"	1"	6 1/2"
A thru M	Pier 1	Fix	14"	21 1/2"	3/8"	1"	1 1/2"	7 1/2"
A thru M	Pier 2	Exp	14"	21 1/2"	3/8"	1 1/2"	1 1/2"	7 1/2"

DESIGNED G.M.V.
CHECKED C.S.
DRAWN G.M.V.
CHECKED H.S.P.

TABLE OF "t" DIMENSIONS

Str	S	Pier 1	Pier 2	N	Str	S	Pier 1	Pier 2	N
A	3/8"				G				
B	3/8"				H				
C	1/2"				J				
D	1/2"				K				
E	3/8"				L				
F	1/2"				M				

AS BUILT
*** TOP OF STRINGER ELEVATIONS**

S	ABUT	PIER 1	SPLICE	SPLICE	PIER 2	N	ABUT
A	606.90	606.47	606.33	605.19	604.68	603.11	
B	606.94	606.48	606.33	605.14	604.61	602.97	
C	606.97	606.45	606.28	605.03	604.49	602.81	
D	606.98	606.42	606.24	604.94	604.38	602.65	
E	607.00	606.39	606.18	604.83	604.26	602.49	
F	607.00	606.34	606.13	604.73	604.18	602.32	
G	606.97	606.30	606.09	604.65	604.06	602.23	
H	606.85	606.18	605.90	604.42	603.81	601.93	
J	606.73	605.96	605.71	604.19	603.56	601.63	
K	606.60	605.78	605.51	603.93	603.29	601.32	
L	606.46	605.60	605.32	603.69	603.03	601.00	
M	606.31	605.40	605.11	603.41	602.74	600.68	

BEARING & MISC. STEEL DETAILS
FA 61 OVER
MCDONOUGH STREET
FA 61 STA. 81+12.97
PROJECT
SECTION 10
Scale NO SCALE
Date NOV. 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, NJ NEW YORK, N.Y. CRYSTAL LAKE, ILL.

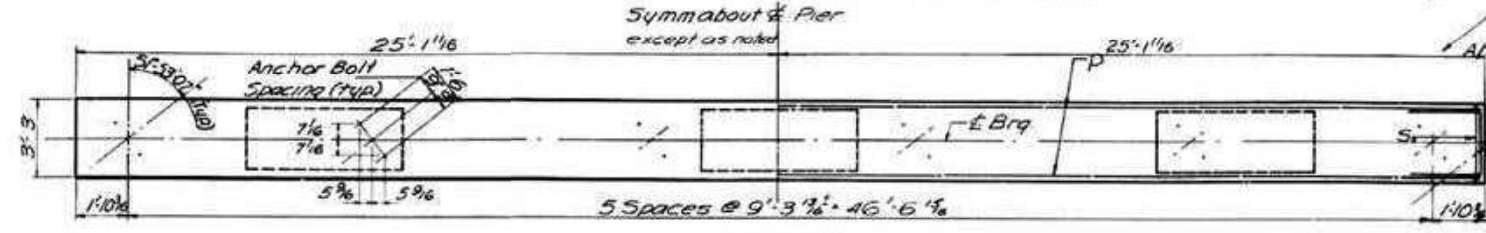
Ref. Top of Stringer Elevations As Built 4-12-66 L. 47

FOR INFORMATION ONLY

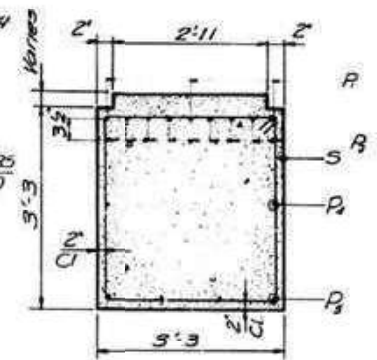
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	PROJECT	SHEET NO.	SHEET TOTAL
FA 61	10	WILL	197	140
PIER	22			
REVISED BY	DATE	REASON		

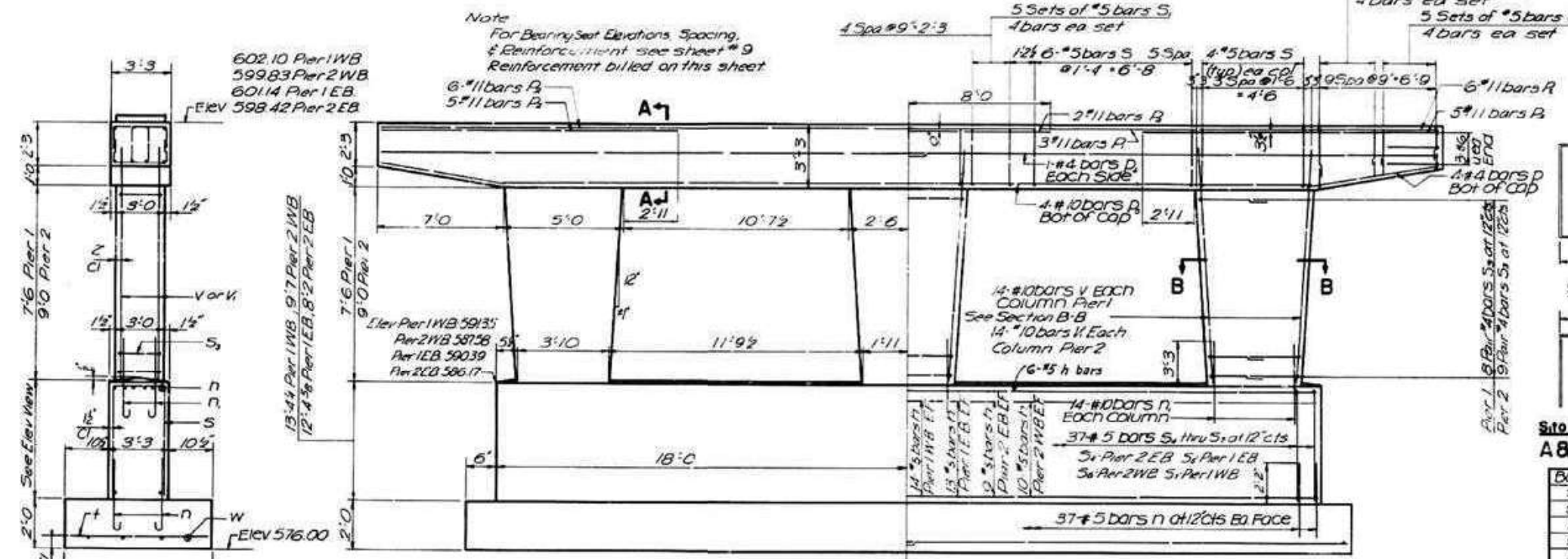
SHEET NO 6A
SHEETS 10



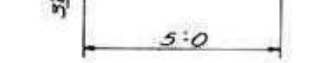
TOP PLAN



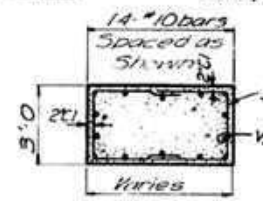
SECTION A-A



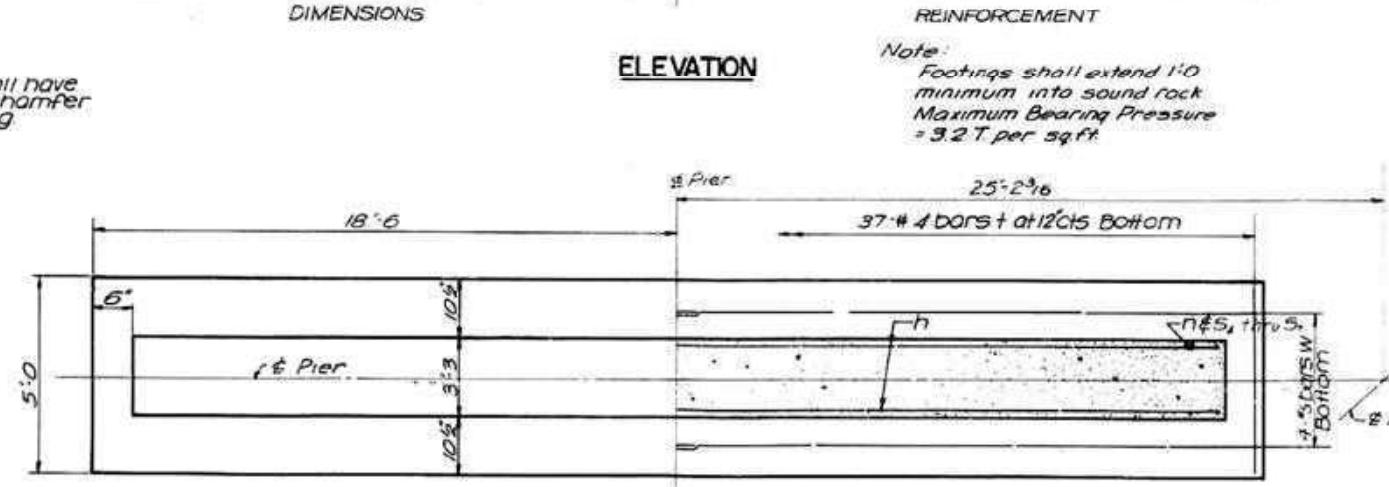
ELEVATION



END VIEW



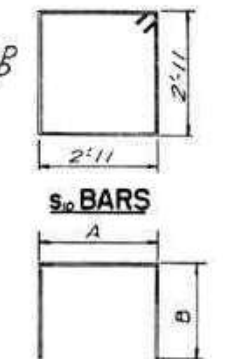
SECTION B-B



FOOTING PLAN

PIER BILL OF MATERIAL

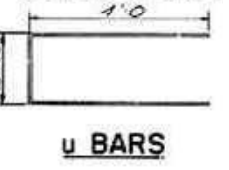
Bar	NO	Size	Ln	Shape
h	116	#5	36'8"	—
h	2	#4	33'0"	—
h	2	#4	24'9"	—
h	2	#4	6'0"	—
n	296	#5	4'6"	—
n	168	#10	9'3"	—
p	32	#4	7'0"	—
B	12	#11	40'11"	—
B	88	#11	14'9"	—
B	8	#11	16'0"	—
F	16	#4	25'6"	—
A	16	#10	36'3"	—
S	90	#5	12'8"	—
S	320	#5	5'11"	—
S ₂	160	#5	4'11"	—
S ₃	204	#4	8'0"	—
S ₄	37	#5	18'3"	—
S ₅	37	#5	28'11"	—
S ₆	37	#5	21'5"	—
S ₇	37	#5	28'11"	—
S ₈	46	#4	6'3"	—
T	148	#4	4'8"	—
S ₁	2'11	9'3"	—	—
S ₂	2'11	13'0"	—	—
S ₃	2'7	2'1	—	—
Reinf Bars		Lb	45040	
Rock Excavation				
Pier 1		cu yds	7	
Pier 2		cu yds	20	
Class X Concrete				
Pier 1		cu yds	201.3	
Pier 2		cu yds	173.6	
Class A Exc				
Pier 1		cu yds	202	
Pier 2		cu yds	159	



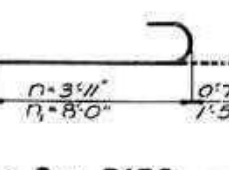
S₀ BARS
S₁₀ BARS

A & B DIMENSIONS

Bar	A	B
S ₁	1'11"	2'0"
S ₂	1'11"	1'6"
S ₃	2'8"	2'8"
S ₄	2'11"	7'9"
S ₅	37"	5"
S ₆	2'11"	12'0"
T	148"	4"
S ₇	2'11"	9'3"
S ₈	2'11"	13'0"
S ₉	2'7"	2'1"



U BARS



n & n BARS

Above bill of material is for 4 piers.

PIERS
FA 61 OVER
MCDONOUGH STREET
FA 61 STA. 81+12.97

FA ROUTE 61
SECTION 10
Scale: NO SCALE

PROJECT
WILL COUNTY
Date: NOV 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

DESIGNED	RDL
CHECKED	CS
DRAWN	GMN
CHECKED	HSE

11-2-64 J.M.J. Rev. Reinf. bars from 40010 to 45,040 lbs

FOR INFORMATION ONLY

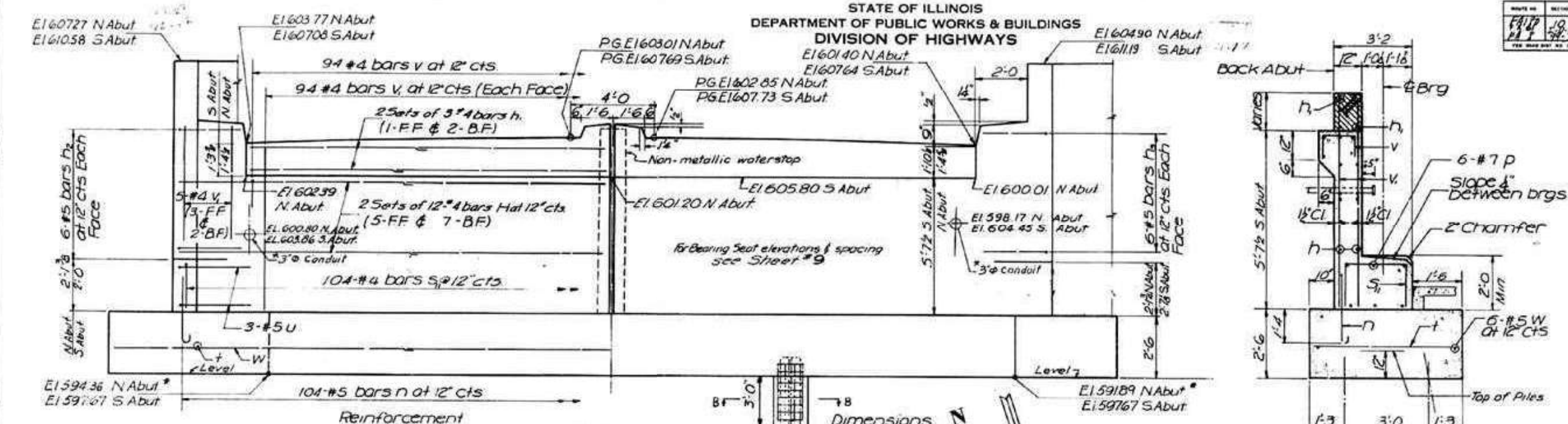
WSP USA Inc.
30 N. LASALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	REVISION	-	REVISED	-
PLOT SCALE	= 7:11,99616"/in.	CHECKED	-	REVISED	-
PLOT DATE	= 4/22/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SHEET 5 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	825
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



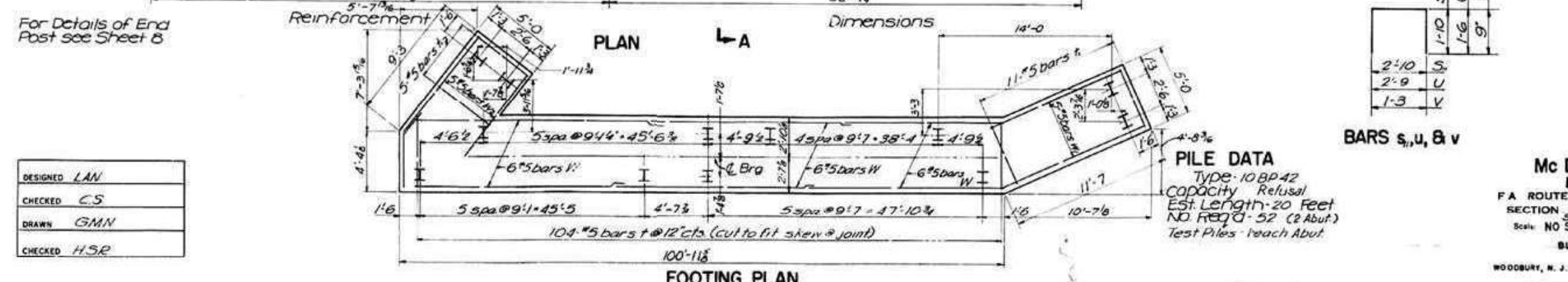
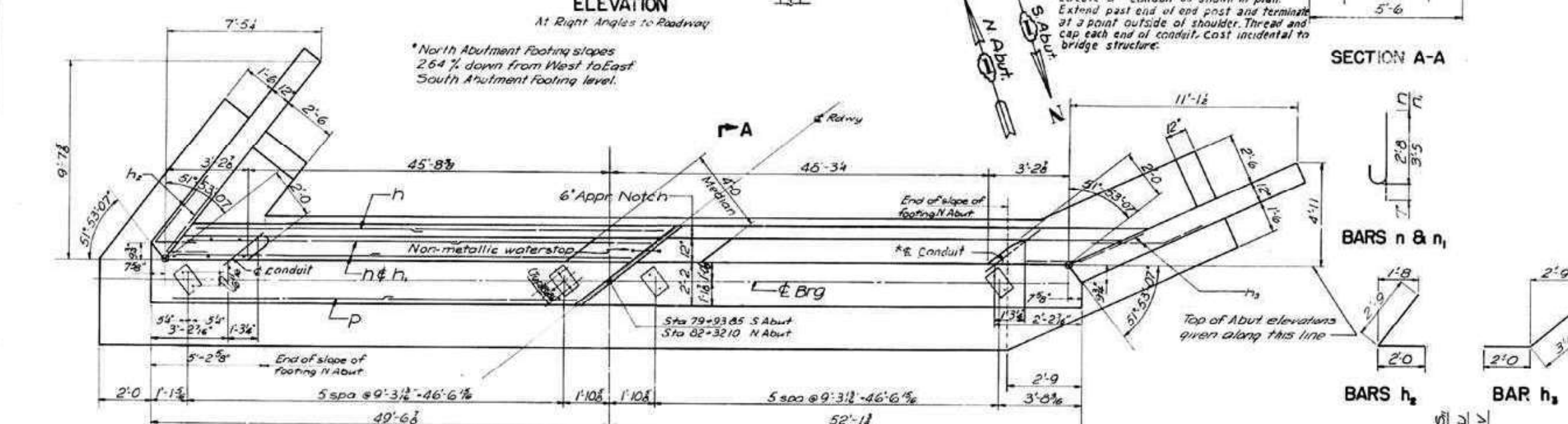
**NO. & SO. ABUTMENTS
BAR LIST**

Bar	NO	SIZE	Lgth	Shape
h	96	#4	27'-3"	—
h	24	#4	23'-9"	—
h ₂	12	#5	4'-9"	L
h ₃	12	#5	5'-0"	J
n	208	#5	3'-3"	—
n	56	#5	4'-0"	J
p	48	#7	27'-3"	—
s	208	#4	6'-6"	□
t	208	#5	5'-0"	—
t	32	#5	4'-6"	—
u	12	#5	5'-9"	□
v	188	#4	2'-9"	□
v	396	#4	6'-6"	—
w	36	#5	34'-1"	—
w	10	#5	11'-0"	—
w ₂	10	#5	8'-9"	—

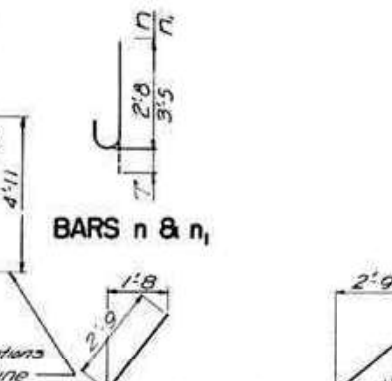
**NO. & SO. ABUTMENTS
BILL OF MATERIALS**

Item	Unit	Quan
Class X Concrete	Cu Yds	219.7
Reinf. Bars	lbs	12750
Steel Piles (10BP42)	LF	1040
Test Piles Steel (10BP42)	Each	2

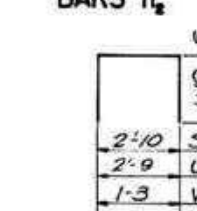
Note: Bill of Materials includes Reinforcement and Class X Concrete for End Posts. Quantities for each abut are equal, i.e. One half total quantities per abut.



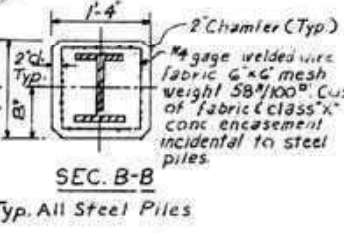
SECTION A-A



BARS h₂



BARS s, u, & v



PILE DATA
Type - 10BP42
Capacity Refusal
Est. Length - 20 Feet
No. Req'd - 52 (2 Abut.)
Test Piles - reach Abut.

**ABUTMENTS
FA 61 OVER
Mc DONOUGH STREET
FA 61 STA. 81+12.97**

FA ROUTE 61 PROJECT COUNTY
SECTION 10 WILL COUNTY
Scale: NO SCALE Date: NOV. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED	LAN
CHECKED	CS
DRAWN	GMN
CHECKED	HSR

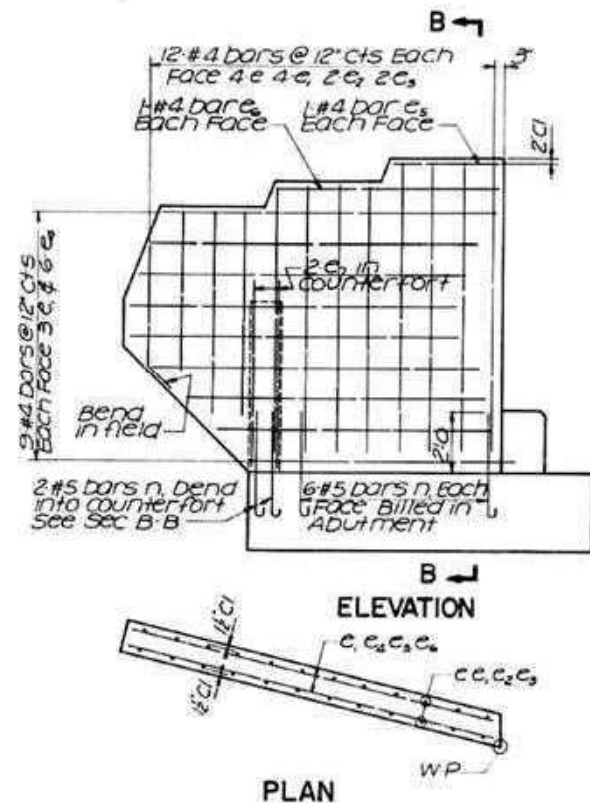
i22-64 J.M.J. Rev. class x from 213.3 to 213.7 cu yds.

FOR INFORMATION ONLY

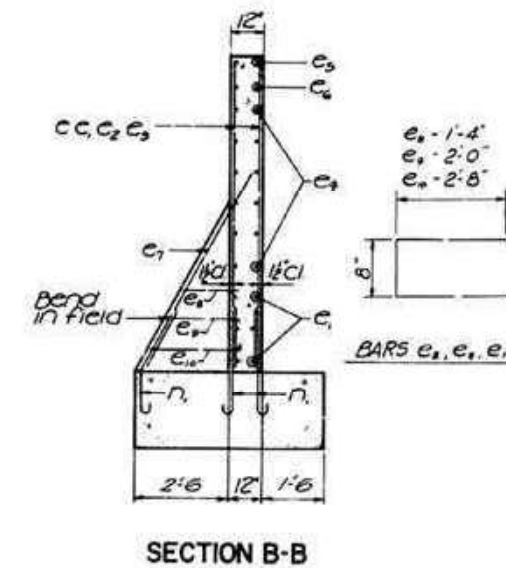
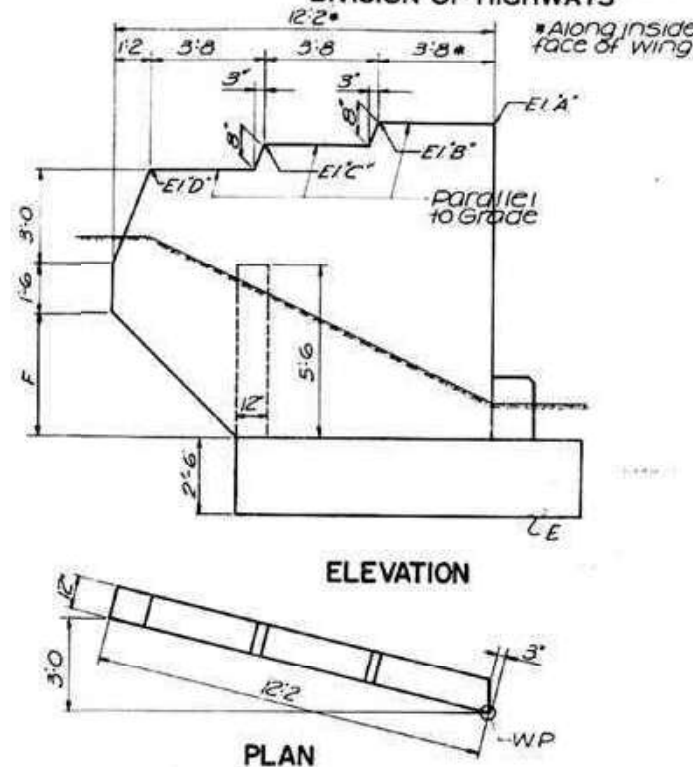
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	826

CONTRACT NO. 62R22

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Note: Piles not shown.
For spacing see
sheet # 7



ONE END POST
BILL OF MATERIAL

Bar No	Size	Lgth	Shape
c	0	#4	9.5
c1	14	#4	8.6
c2	4	#4	6.6
c3	4	#4	5.0
c4	12	#4	10.6
c5	2	#4	3.6
e1	2	#4	7.0
e2	2	#5	7.0
e3	1	#4	3.2
e4	1	#4	4.6
e5	1	#4	5.10

Reinforcement bars lbs 280
Class x Conc
North Abut cu yds 8.3
South Abut cu yds 8.7

*Included in Quantity on sheet #7

Elev	N Abut		S Abut	
	WWW	EWV	WWW	EWV
A	607.27	604.50	611.19	610.58
B	607.17	604.77	611.20	610.62
C	606.40	603.97	610.54	609.99
D	605.62	603.17	609.88	609.36
E	594.36	591.89	597.67	597.67
F	5-10 1/8	6-0 1/8	6-6 1/4	5-10 1/8

DESIGNED	GMN
CHECKED	CS
DRAWN	GMN
CHECKED	HSP

ABUTMENT DETAILS
FA 61 OVER
M^c DONOUGH STREET
FA 61 STA. 81+12.97

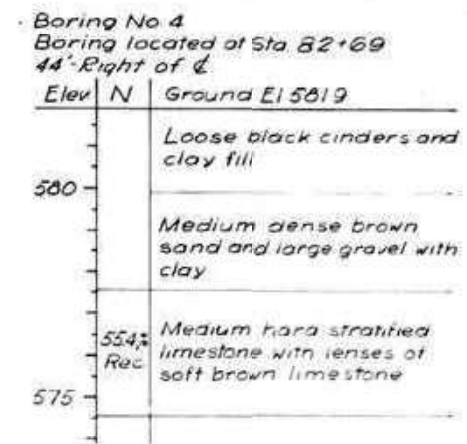
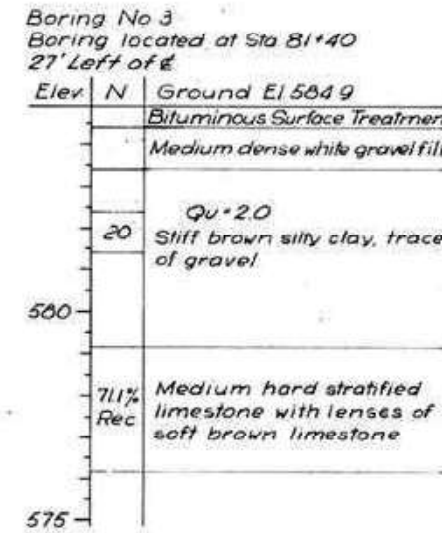
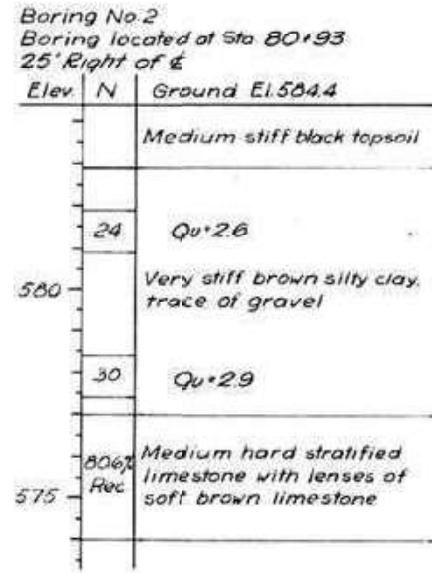
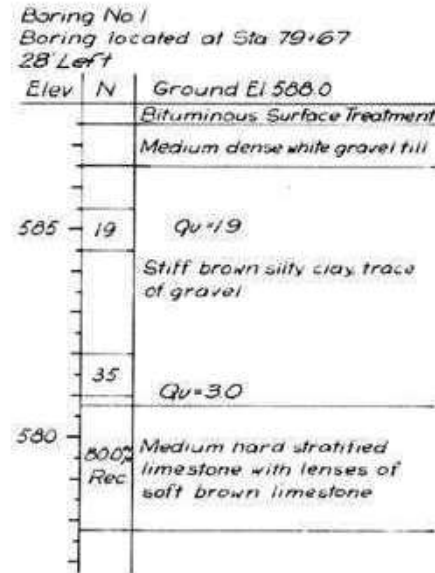
FA ROUTE 61 PROJECT
SECTION 10 WILL COUNTY
Scale NO SCALE Date NOV 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

12-2-64 '17J Rev. class x conc. N. abut. from 8.1 to 8.3 cu yd. S. abut. from 8.5 to 8.7 cu yds.

FOR INFORMATION ONLY

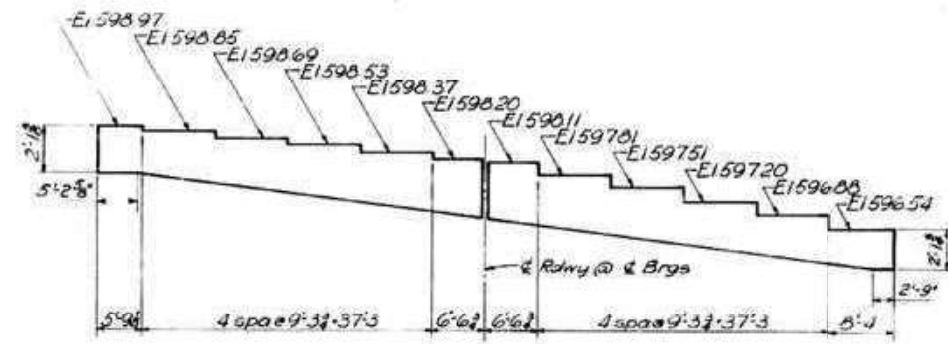
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
61	10	WILL	197	143
SHEETS / 0				

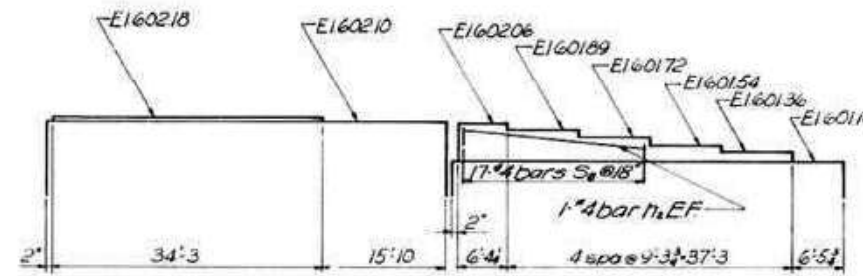


Note N=Blows per ft of penetration of sampling spoon Hammer Wt=140lbs Drop=30"
Qu=Unconfined compressive strength in tons per square foot.

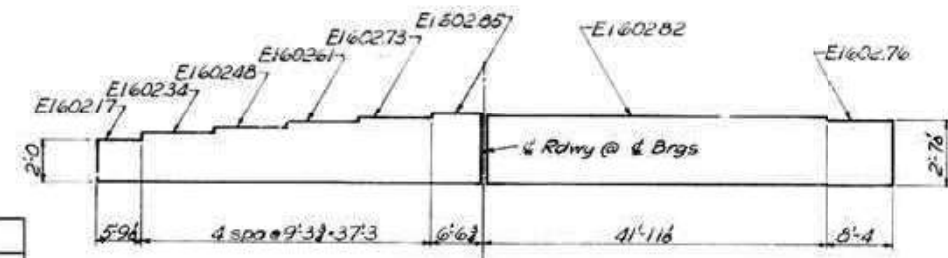
BORING DATA



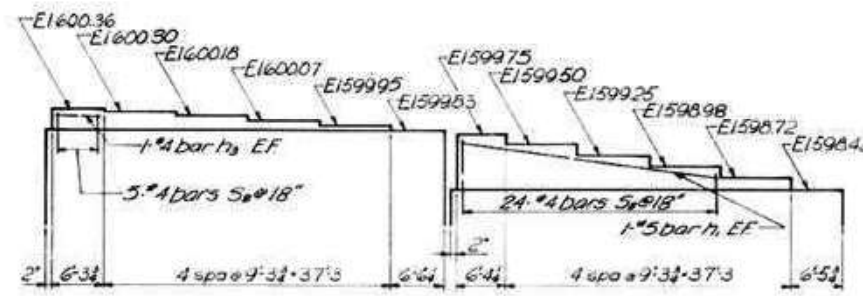
NORTH ABUTMENT
Looking Ahead



PIER 1
Looking Ahead



SOUTH ABUTMENT
Looking Back



(Pad Reinforcement tilted on Street "C")

PIER 2
Looking Ahead

DESIGNED	CS
CHECKED	GMN
DRAWN	ER
CHECKED	MSR

ELEVATIONS & BORING DATA
FA.61 OVER
MC DONOUGH STREET
F.A.61 STA. 81+12.97

FA ROUTE 61 PROJECT
SECTION 10 WILL COUNTY
Scale NO SCALE Date NOV. 30, 1981

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

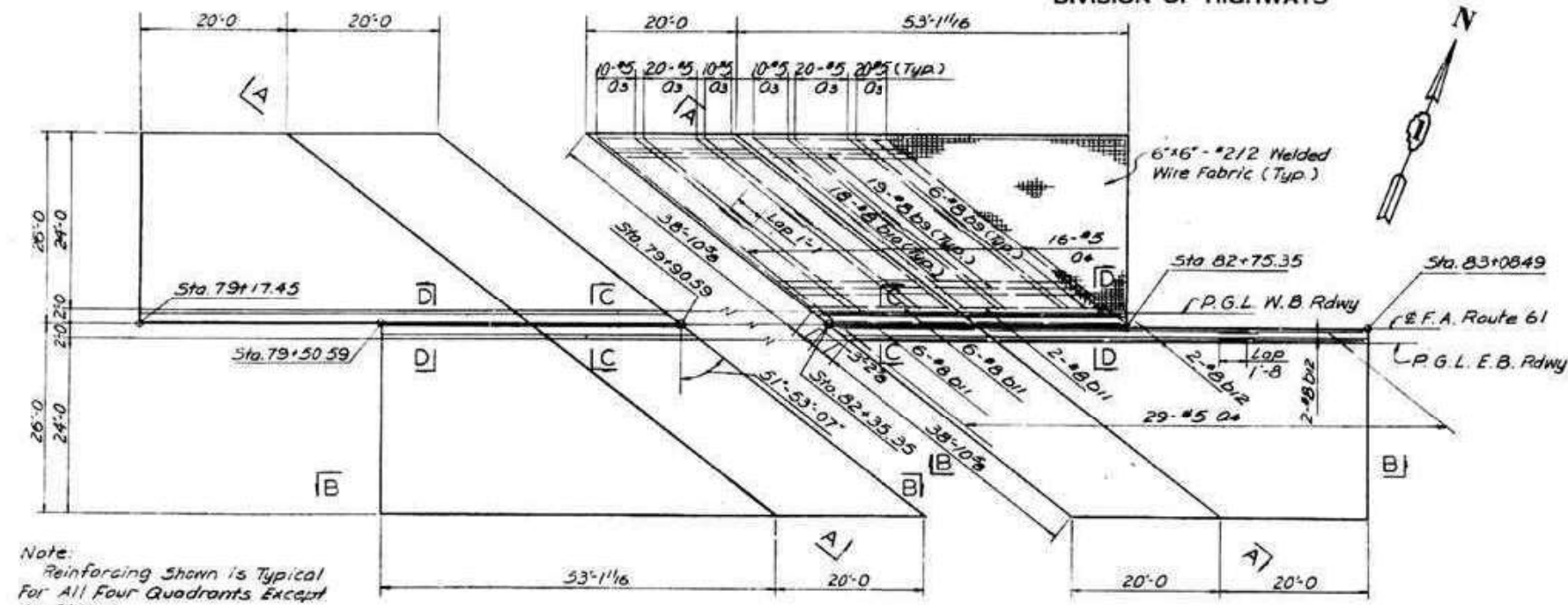
SHEET 8 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	828
CONTRACT NO. 62R22				

ILLINOIS FED. AID PROJECT

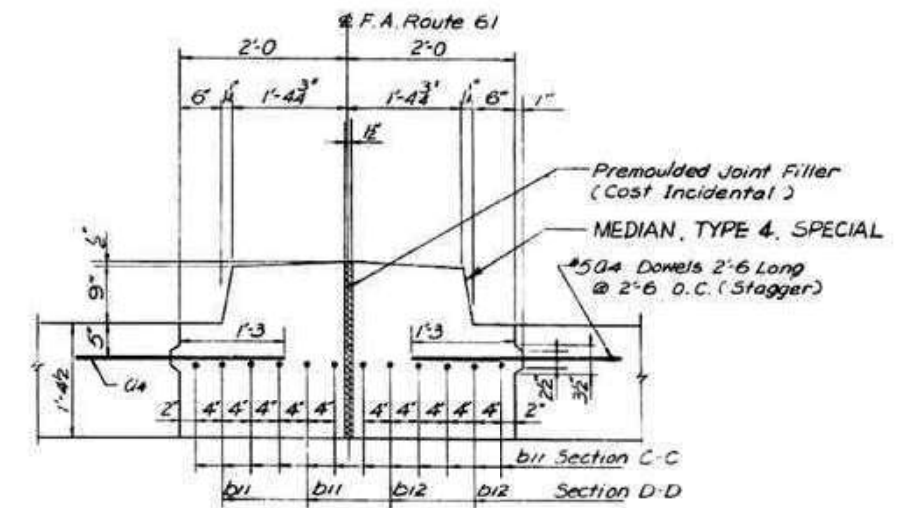
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 80	21	WILL	199	10
SHEETS 10				

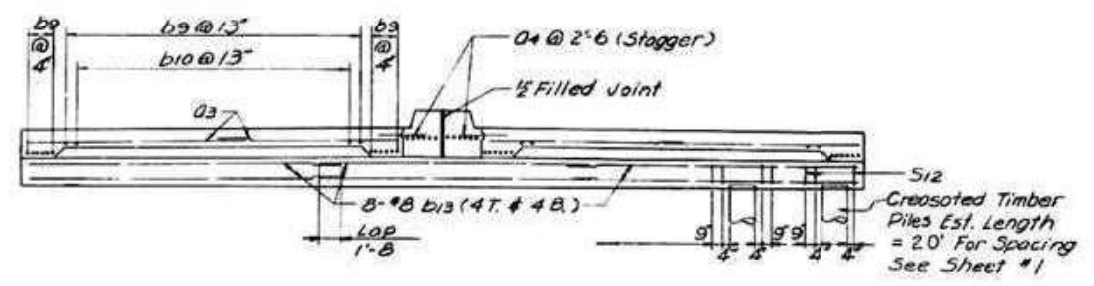


Note:
Reinforcing shown is typical
for all four quadrants except
as shown
For additional notes and
details see Illinois Std. 1909-6

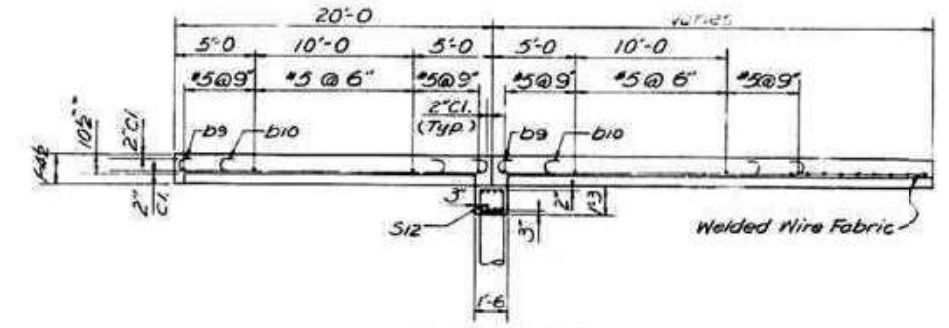
PLAN



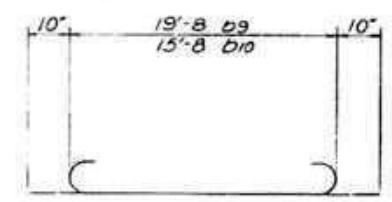
SECTION C-C & D-D



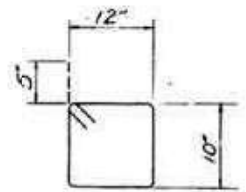
SECTION A-A



SECTION B-B



BARS b9 & b10



BAR S12

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
D9	320	#5	19'-10"	—
D10	90	#5	2'-6"	—
D9	248	#8	21'-4"	C
D10	144	#8	17'-4"	C
D11	28	#8	19'-8"	—
D12	8	#8	27'-3"	—
D13	48	#8	29'-0"	—
S12	140	#4	4'-6"	□

DESIGNED	J. J. H.
CHECKED	R. H. W.
DRAWN	J. J. H.
CHECKED	R. H. W.

APPROACH SLABS
F A ROUTE 61 OVER McDONOUGH ST.
F A ROUTE 61 STA. 81+12.97
F A ROUTE 61 SECTION 10 (STR 7) PROJECT
WILL COUNTY
Scale: No Scale Date: Nov. 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
MOCCURT, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

Revised Sect AA Cre Piles change from 21 to 20'
2-28-63 Bill of Matl Cre Piles change from 142 to 120 lin ft.
V.D.S.

FOR INFORMATION ONLY



USER NAME	= USCP702533	DESIGNED	-	REVISED	-
PLOT SCALE	= 7:11,99616 "/in.	DRAWN	-	REVISED	-
PLOT DATE	= 4/22/2025	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

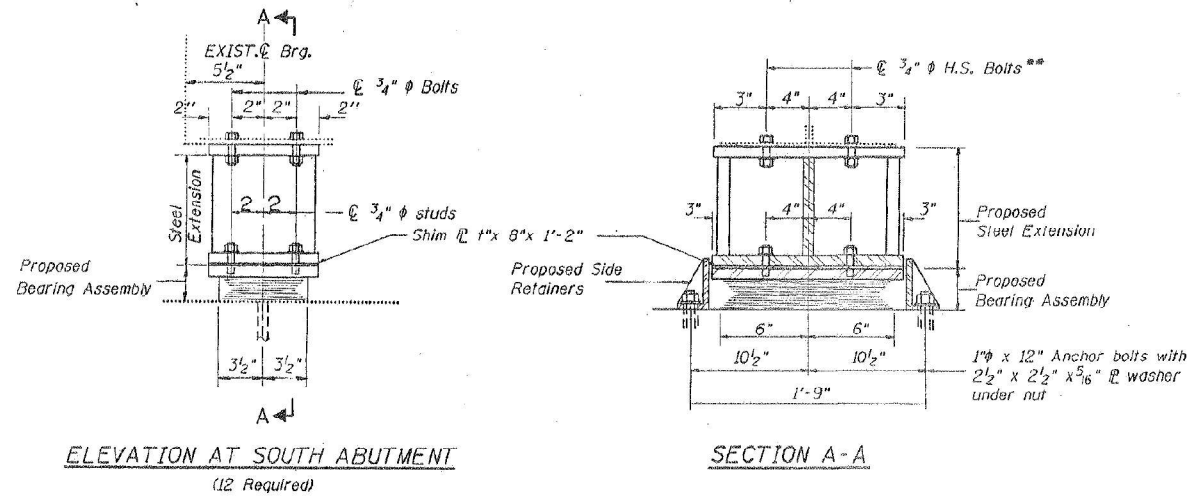
SHEET 9 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	829
CONTRACT NO. 62R22				

ILLINOIS FED. AID PROJECT

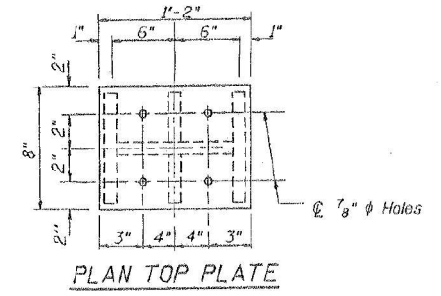
F.A.I. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
61	10HB-21	WILL	16	6
STA.	TO STA.			
FED. AID DIST. NO.	ALLOY	FED. AID PROJECT		

Sheet 6 of 16

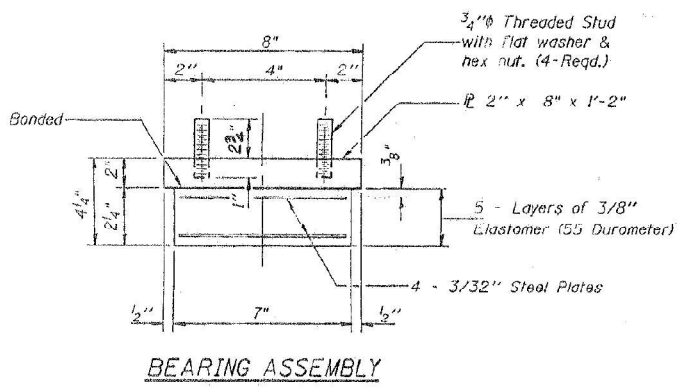


GIRDER REACTIONS

RDL (K)	18.4
RLI Imp. (K)	39.0
R (Total) (K)	57.4



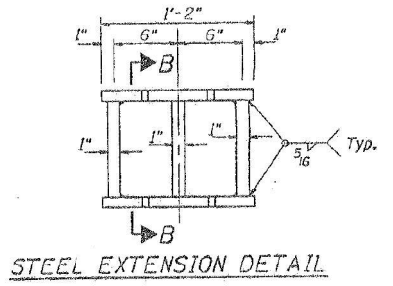
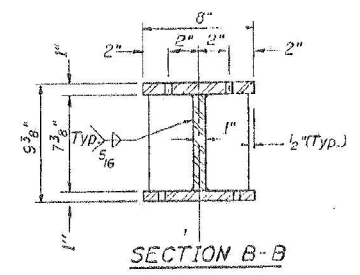
TYPE I ELASTOMERIC EXP. BRG.



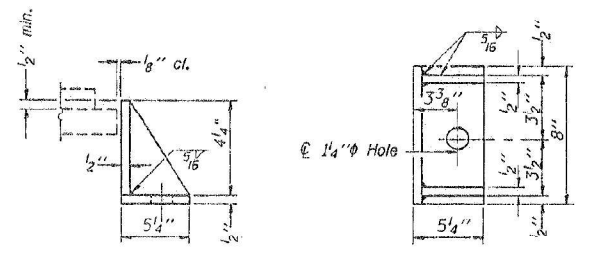
Beam No.	A	B	C	D	E	F	G	H	J	K	L	M
So. Abutment			1/4"	7/16"	5/8"	1/2"						

(See Sheet 9 for Beam Locations)

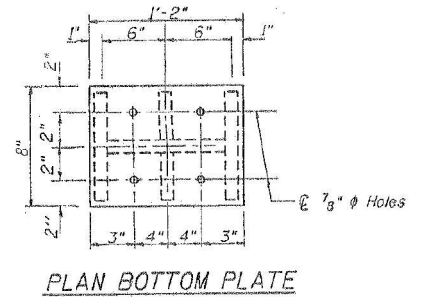
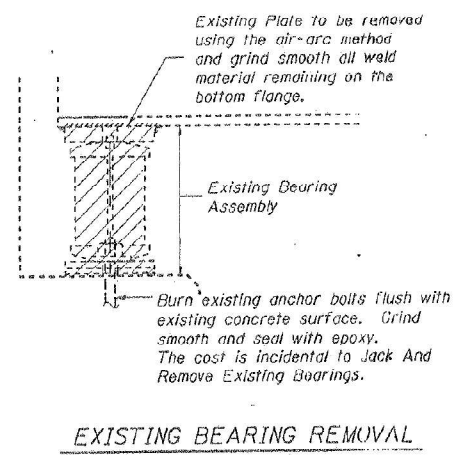
NOTES:
 Before installing the new bearing, remove the top plate of the existing bearing assembly from the bottom flange using the air-arc method and grind smooth all weld material remaining on the existing bottom flange. Burn existing anchor bolts flush with existing concrete surface. Grind smooth and seal with epoxy. The cost is incidental to Jack And Remove Existing Bearings. See Existing Bearing Removal Detail.
 New side retainers, shim plates, connection bolts, and anchor bolts are included in Furnishing and Erecting Structural Steel.
 ** 1/2" diameter holes are to be drilled in the field in the bottom of existing beams. Cost incidental to Furnishing and Erecting Structural Steel.
 For the details of existing bearings see sheet 10. Contractor shall submit jacking details for approval by the bridge office. For anchor bolt details see sheet 14. Prior to ordering any material, the contractor shall verify in the field all bearing heights and shim plate thickness dimensions.
 Diaphragm removal and replacement may be required to facilitate drilling holes in the bottom flange for bearing attachment. Cost incidental to Furnishing and Erecting Structural Steel.



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. Weight included with Structural Steel. (24 REQUIRED)



Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Furnishing And Erecting Structural Steel	lbs.	2100
Jack And Remove Existing Bearings	Each	12

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CENTER STREET
 OVER U.S. ROUTE 52
 ELASTOMERIC BEARING DETAIL
 FOR SOUTH ABUTMENT
 S.N. 099-0186
 SCALE: 50'-1" DRAWN BY CAUD
 DATE: 02/21/95 CHECKED BY JAF

I-2-E1 2-26-93

MODEL: D:\p1\1402525_1995\USER\p1\1402525_1995\118002703\MSD\CAD\B2022-INT-4 (Center)\Structural\Existing Bridge Plans\0990186-022-5-Existing 10.V10.10.dgn
 Tue Feb 21 14:05:25 1995
 /user/p1/1402525_1995/118002703/MSD/CAD/B2022-INT-4 (Center)\Structural\Existing Bridge Plans\0990186-022-5-Existing 10.V10.10.dgn

wsp
 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USCP702533	DESIGNED -	REVISED -
PLOT SCALE = 7:11.99616" / in.	DRAWN -	REVISED -
PLOT DATE = 4/22/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

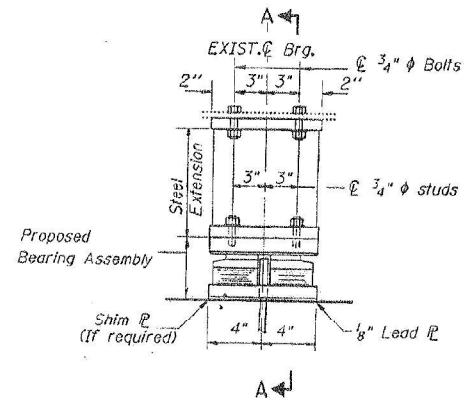
EXISTING BRIDGE PLANS
 SHEET 10 OF 62 SHEETS

FOR INFORMATION ONLY

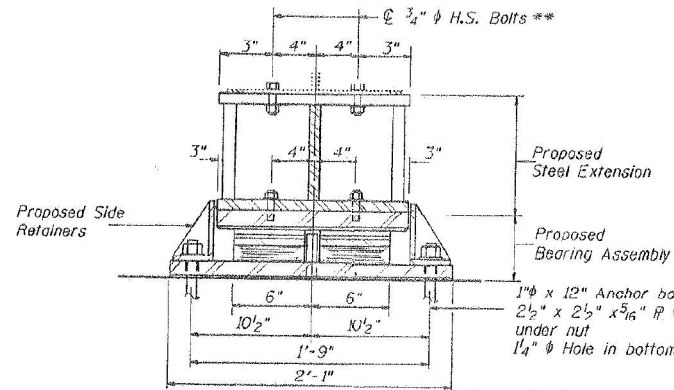
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	830
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
61	10HB-21	WILL	16	8
STA.	TO STA.			
FED. ROAD DIST. NO.	SLIGNON	FED. ID. PROJECT		

Sheet 8 of 16



ELEVATION AT NORTH ABUTMENT
(12 Required)



SECTION A-A

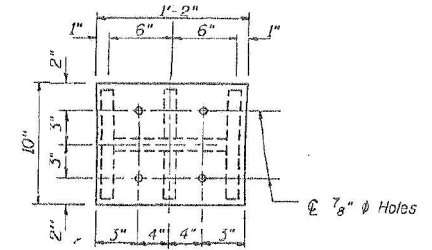
TYPE III ELASTOMERIC EXP. BRG.

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

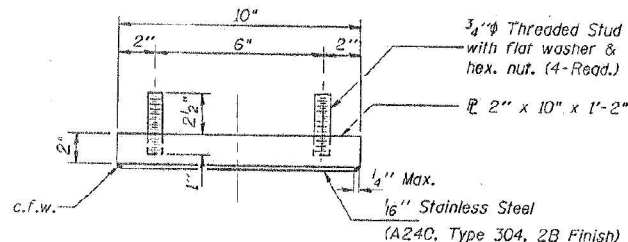
Banding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

GIRDER REACTIONS

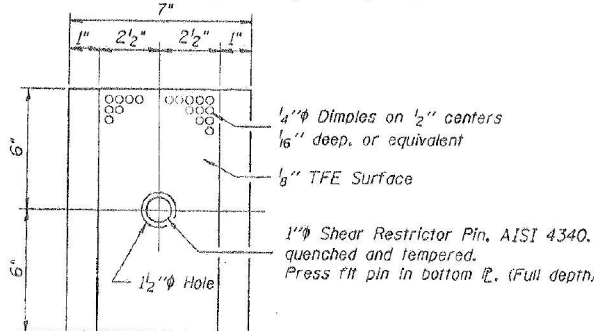
R DL (K)	15.4
R LL + Imp. (K)	39.0
R (Total) (K)	57.4



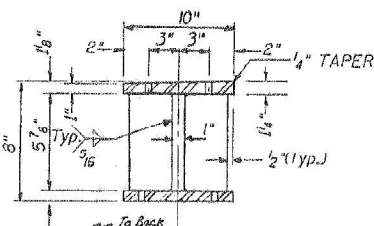
PLAN TOP PLATE



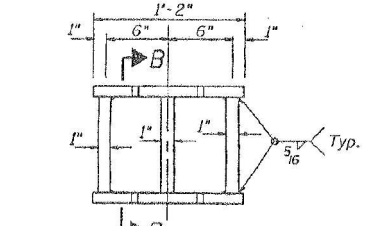
TOP BEARING ASSEMBLY



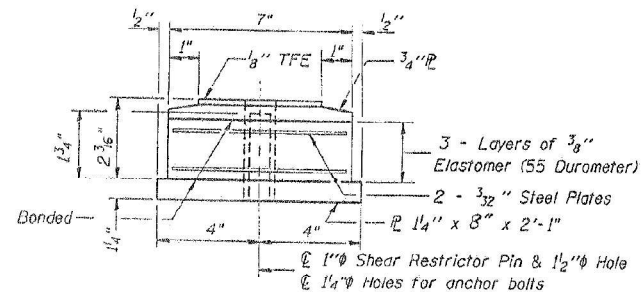
PLAN-TFE ELASTOMERIC BRG.



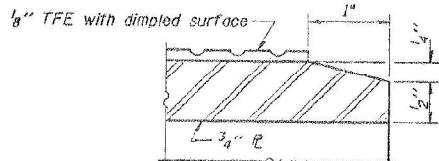
SECTION B-B



STEEL EXTENSION DETAIL



BOTTOM BEARING ASSEMBLY



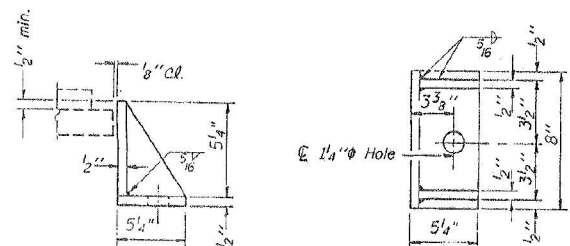
SECTION THRU TFE

NOTES:
Before installing the new bearing, remove the top plate of the existing bearing assembly from the bottom flange using the air-arc method and grind smooth all weld material remaining on the existing bottom flange. Burn existing anchor bolts flush with existing concrete surface. Grind smooth and seal with epoxy. The cost is incidental to Jack And Remove Existing Bearings. See Existing Bearing Removal Detail (See sheet 6 of 16).
New side retainers, shim plates, connection bolts, and anchor bolts are included in Furnishing and Erecting Structural Steel.

* 1/8" diameter holes are to be drilled in the field in the bottom of existing beams. Cost incidental to Furnishing and Erecting Structural Steel.

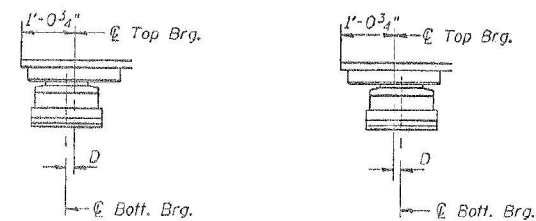
For the details of existing bearings see sheet 10.
Contractor shall submit jacking details for approval by the bridge office.
For anchor bolt details see sheet 14.
Prior to ordering any material, the contractor shall verify in the field all bearing heights and shim plate thickness dimensions.

Diaphragm removal and replacement may be required to facilitate drilling holes in the bottom flange for bearing attachment. Cost incidental to Furnishing and Erecting Structural Steel.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.
(24 REQUIRED)



SETTING ANCHOR BOLTS AT EXP. BRG.

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type III	Each	12
Furnishing And Erecting Structural Steel	lbs.	2450
Jack And Remove Existing Bearings	Each	12

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CENTER STREET
OVER U.S. ROUTE 52
ELASTOMERIC BEARING DETAIL
FOR NORTH ABUTMENT
S.N. 099-0186
SCALE: 50'-1" DRAWN BY CADD
DATE 02/21/95 CHECKED BY JAF

I-2-E3 2-26-97

FOR INFORMATION ONLY

WSP USA Inc.
30 N. LASALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME = USCP702533
DESIGNED -
DRAWN -
PLOT SCALE = 7:11.99616" / in.
PLOT DATE = 4/22/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

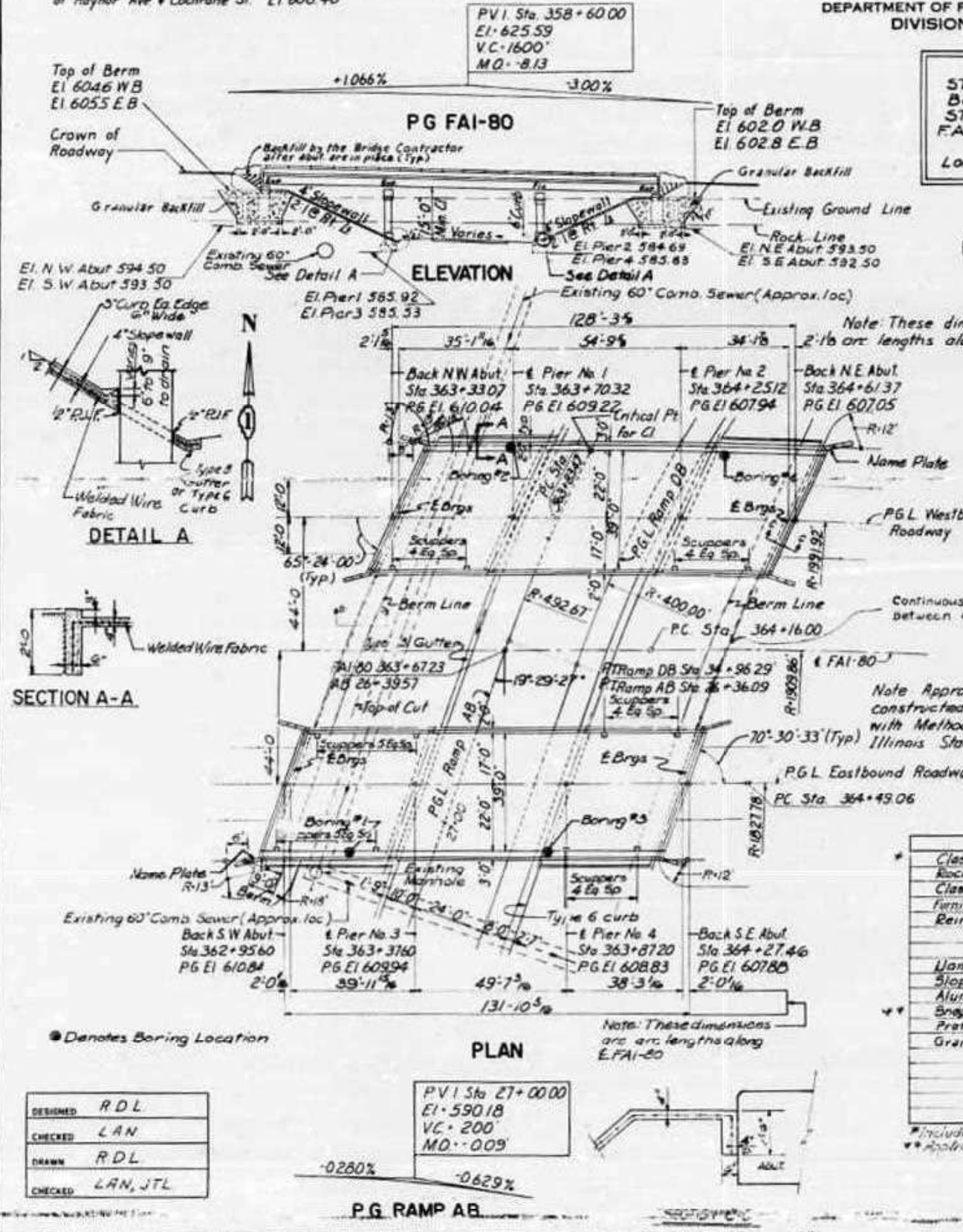
SHEET 11 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	831
				CONTRACT NO. 62R22
ILLINOIS FED. AID PROJECT				

Bench Mark #45: Top of 'O' on an open fire hydrant, NW corner of Raynor Ave & Cochrane St. El 608.40

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

DATE	BY	SCALE	SHEET NO.
11/27/80	LAN	1/4" = 1'-0"	10



STATION 363+67.23
Built 196 By
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 99-34B-1
FA. PROJ. I-80-4(22)
Loading: HS-20 (Alt.)
See Standard 2113-1

DESIGN STRESSES
Reinforced Concrete:
fc = 3500 psi
fs = 20,000 psi
n = 10
fc = 1,400 psi (except footings)
fc = 1,000 psi (footings)
Vc = 90 psi (except footings)
Vc = 75 psi (footings)
Structural Steel:
fs = 20,000 psi
Maximum Soil Pressure - 5 tons/sq ft
Loading - HS-20-44 (Alternate)

GENERAL NOTES:

STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A 36

RIVETS SHALL BE 3/4" # WITH 1 1/16" # OPEN HOLES UNLESS NOTED.

CLASS X CONCRETE SHALL BE USED THROUGHOUT. COARSE AGGREGATE USED IN PARAPETS AND END BENTS SHALL BE FREE OF CHERT, FLINT, LIMONITE, LEADITE AND SOFT LACUNATIONS.

THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.

ALL WELDING SHALL CONFORM WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, OF THE AMERICAN WELDING SOCIETY.

ALL ROCKERS, BOLTERS, BEARING PLATES, LEAD PLATES, WINDLES, AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITIES OF STRUCTURAL STEEL.

ANCHOR BOLTS SHALL BE SET BEFORE CONNECTING DIAPHRAGMS OVER SUPPORT. SPACE REINFORCING TO FIT ANCHOR BOLTS.

EXPANSION GUARDS AND PLATES SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 (2) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITIES OF STRUCTURAL STEEL.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOT 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 SURFACES OF EXPANSION GUARDS UNACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO SHOT COATS OF RED LEAD PAINT. THE 1/4" # WELDED STUDS SHALL NOT BE PAINTED.

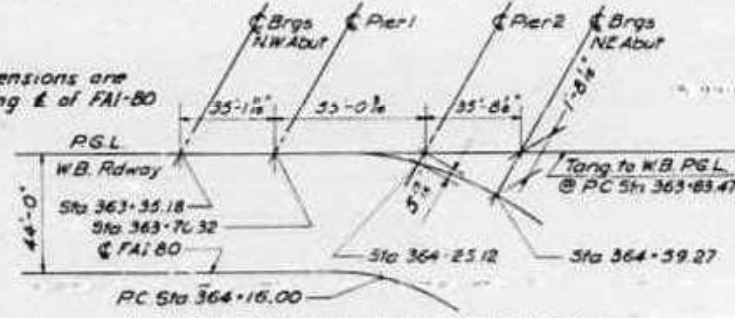
NO ROCK LARGER THAN 1" SHALL BE PLACED IN FILLS IN THE AREA WHERE FILLED ARE TO BE DRAINED.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE FLOOR.

Excavation for foundation of structure in the embankment shall not be classified.

NOTE: THE ROADWAY DEPTH SHALL BE 15'-0" VERTICAL CLEARANCE ROUTE.

LETTERING
FOR NAME PLATE

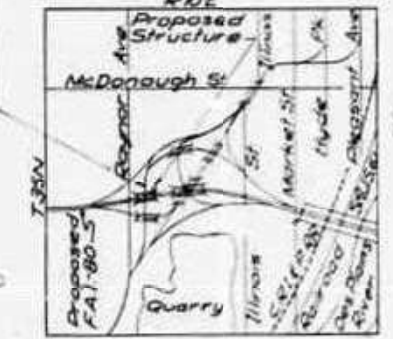


Note: Welded Wire Fabric in slope wall shall be 6" x 6" mesh, #4 wires, 50 lbs/100 sq ft. Cost of Welded Wire Fabric shall be included in cost of 4" slope wall.

Cost of precast joint filler shall be incidental to the contract.

TOTAL BILL OF MATERIAL
Sec. 99-3 Str. 1

Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu. Yd.	—	2680	2680
Rock Excavation for Structures	Cu. Yd.	—	104	104
Class X Concrete	Cu. Yd.	3191	3791	6982
Furnishing & Erecting Structural Steel	Lb.	234,500	—	234,500
Reinforcement Bars	Lb.	76,680	55780	132,460
Name Plate	Each	2	—	2
Slope wall 4"	Sq. Yd.	—	1329	1329
Aluminum Handrail	Lin. Ft.	513	—	513
Bridge Seal Sealant	Lb.	—	6.2	6.2
Protective Coat	Sq. Yd.	1392	—	1392
Granular Backfill	Cu. Yd.	—	1657	1657



LOCATION PLAN

GENERAL PLAN & ELEVATION
FAI-80 OVER RAMP AB

STA. 363+67.23
F.A.I. ROUTE 80 SECTION 99-3-5-1 PROJECT 1-80-4(22)133
WILL COUNTY
Scale NO SCALE Date Nov 30 1980

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

DESIGNED	R.D.L.
CHECKED	LAN
DRAWN	R.D.L.
CHECKED	LAN, JTL

P.V.I. Sta. 27+00.00
El. 590.18
V.C. 200'
M.O. 0.09

Prepared and Recommended By
Blauvelt Engineering Co.
Structural Engineer
1111 N. W. 11th St.
Crystal Lake, Ill. 60154
781-2251

FOR INFORMATION ONLY

WSP USA Inc.
30 N. LASALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME	= USCP702533	DESIGNED	-	REVISED	-
PLOT SCALE	= 7:11,99616"/in.	DRAWN	-	REVISED	-
PLOT DATE	= 4/22/2025	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

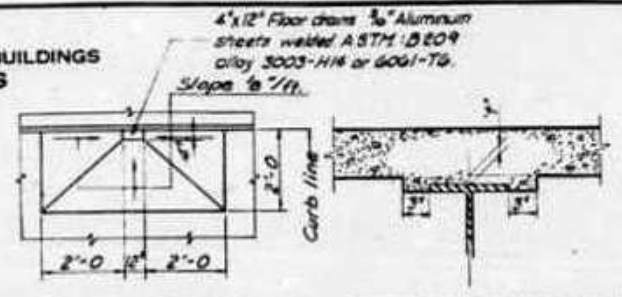
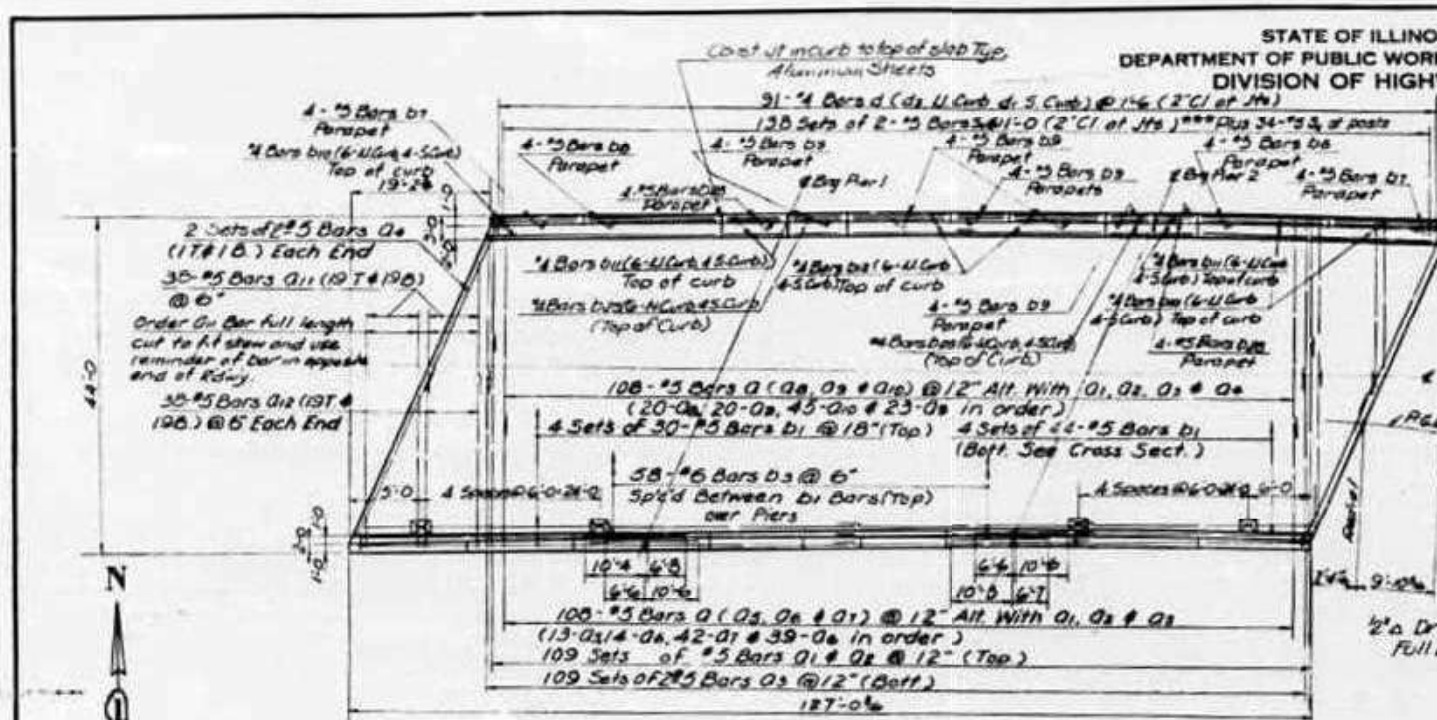
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SHEET 12 OF 62 SHEETS

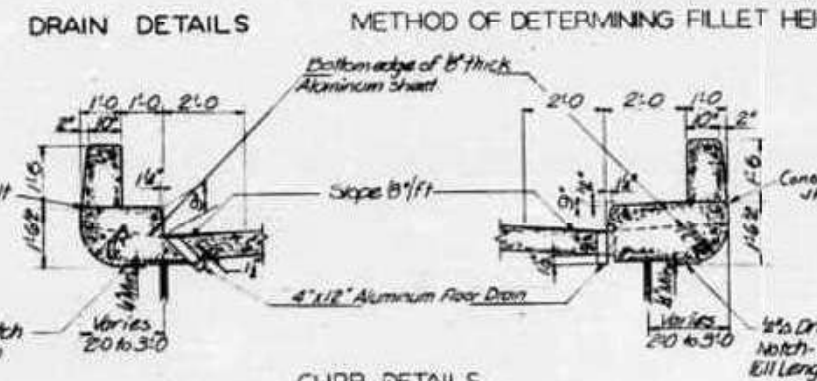
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	832
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				

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

SHEET NO. 2
10 SHEETS

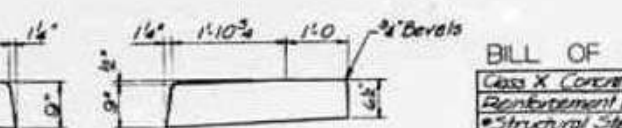
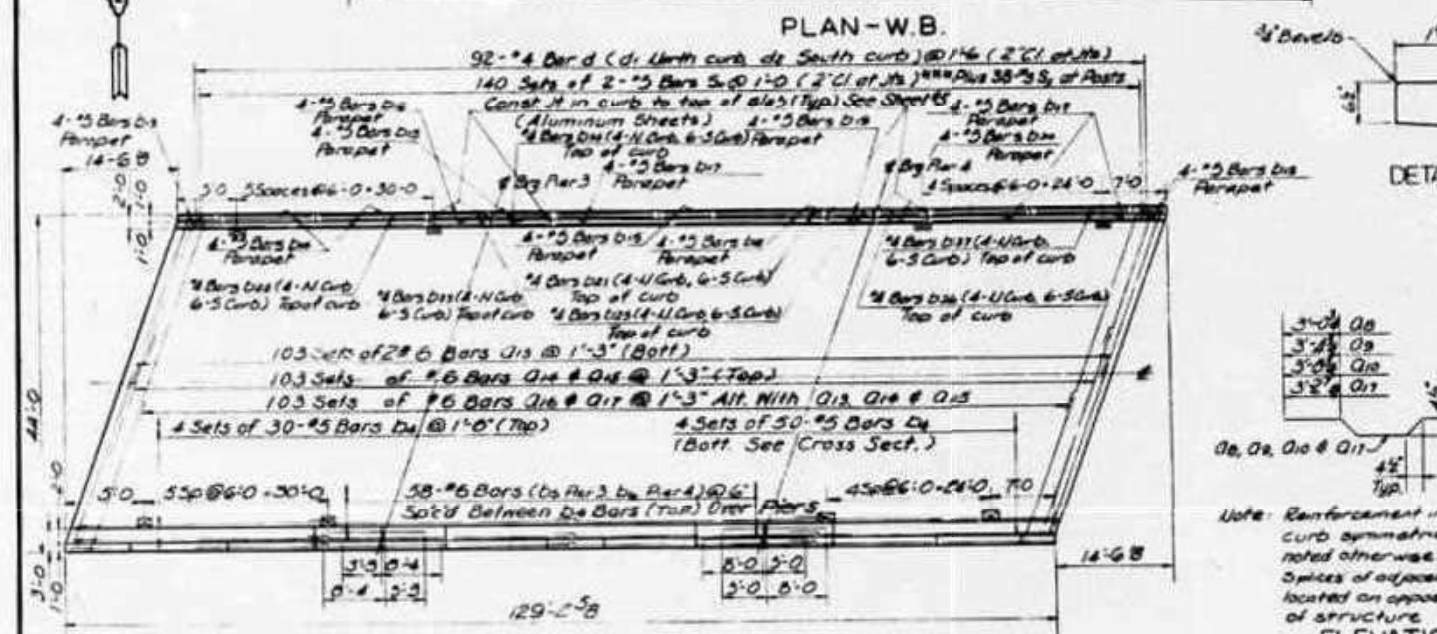


After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on D.L. Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals the fillet heights above top of beams.



BILL OF REINFORCEMENT

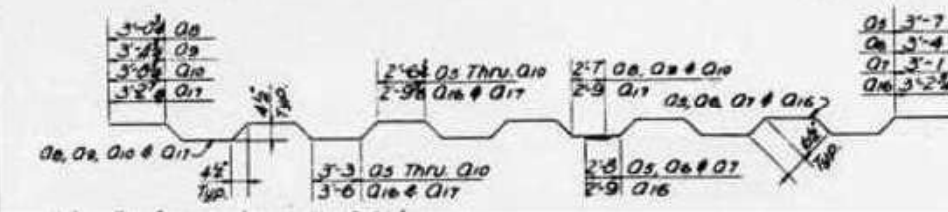
Bar	No.	Size	Length	Splice
Qa	109	#5	26'-1"	
Qa	109	#5	19'-7"	
Qa	210	#5	22'-6"	
Qa	8	#5	24'-1"	
Qa	13	#5	20'-3"	
Qa	52	#5	20'-2"	
Qa	42	#5	19'-11"	
Qa	20	#5	26'-9"	
Qa	43	#5	27'-1"	
Qa	45	#5	27'-3"	
Qa	76	#5	24'-8"	
Qa	76	#5	22'-0"	
Qa	103	#5	20'-3"	
Qa	103	#5	21'-6"	
Qa	103	#5	28'-9"	



BILL OF MATERIALS

Class X Concrete	Cu Yds	3591
Reinforcement And Lbs.		76,080
Structural Steel	Lbs.	234,500

* Structural Steel includes weight of rockers, bolsters, bearing plates, lead plates, pintles, and anchor bolts. Estimated Wt. = 14,345 lbs.
Cost of furnishing and installing drains, aluminum sheets shall be incidental to the contract.



Note: Reinforcement in parapet and curb symmetrical about center unless noted otherwise.
Splices of adjacent truss bars to be located on opposite sides of center of structure.

ELEVATIONS - TOP OF SLAB ** (Elevations are not adjusted for dead load deflections)

Spot	Pt.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A		609.32	609.30	609.24	609.01	608.86	608.70	608.54	608.38	608.12	607.92	607.68	607.45	607.32	
B		609.67	609.50	609.33	609.07	608.90	608.71	608.53	608.34	608.07	607.86	607.62	607.30	607.26	
C		609.83	609.64	609.45	609.19	608.95	608.74	608.53	608.32	608.01	607.79	607.56	607.32	607.19	
D		609.95	609.78	609.53	609.28	608.98	608.75	608.53	608.29	607.96	607.73	607.50	607.26	607.13	
E		610.02	609.79	609.56	609.28	608.98	608.75	608.51	608.26	607.91	607.67	607.43	607.19	607.07	
F		610.01	609.78	609.55	609.19	608.95	608.71	608.47	608.22	607.86	607.61	607.37	607.13	607.00	
G		609.95	609.72	609.49	609.13	608.89	608.65	608.41	608.16	607.80	607.55	607.31	607.07	606.94	
H		610.44	610.25	610.01	609.80	609.56	609.34	609.14	608.91	608.68	608.46	608.24	608.08	607.90	607.75
I		610.62	610.41	610.20	609.99	609.77	609.55	609.35	609.10	608.87	608.65	608.43	608.22	608.01	607.84
J		610.75	610.58	610.33	610.12	609.90	609.68	609.46	609.23	609.01	608.79	608.56	608.35	608.10	607.91
K		610.81	610.60	610.39	610.17	609.94	609.74	609.52	609.29	609.07	608.84	608.61	608.37	608.15	607.93
L		610.78	610.57	610.36	610.15	609.94	609.72	609.50	609.27	609.05	608.83	608.60	608.35	608.11	607.91
M		610.70	610.49	610.28	610.07	609.85	609.63	609.41	609.19	608.97	608.75	608.52	608.28	608.03	607.83
N		610.61	610.40	610.19	609.98	609.76	609.55	609.33	609.11	608.89	608.66	608.43	608.20	607.95	607.75

PLAN - E.B.

DESIGNED J.J.H.
CHECKED J.T.L.
DRAWN A.M.E. & J.J.H.
CHECKED J.T.L.

See Sheet 3 for Locations of Points.
See Sheet 4 for Cross Section.

*** Place 2-#5s, one of each on each side of parapet (road side) of parapet.

SLAB PLAN
FAI 80 OVER RAMP AB

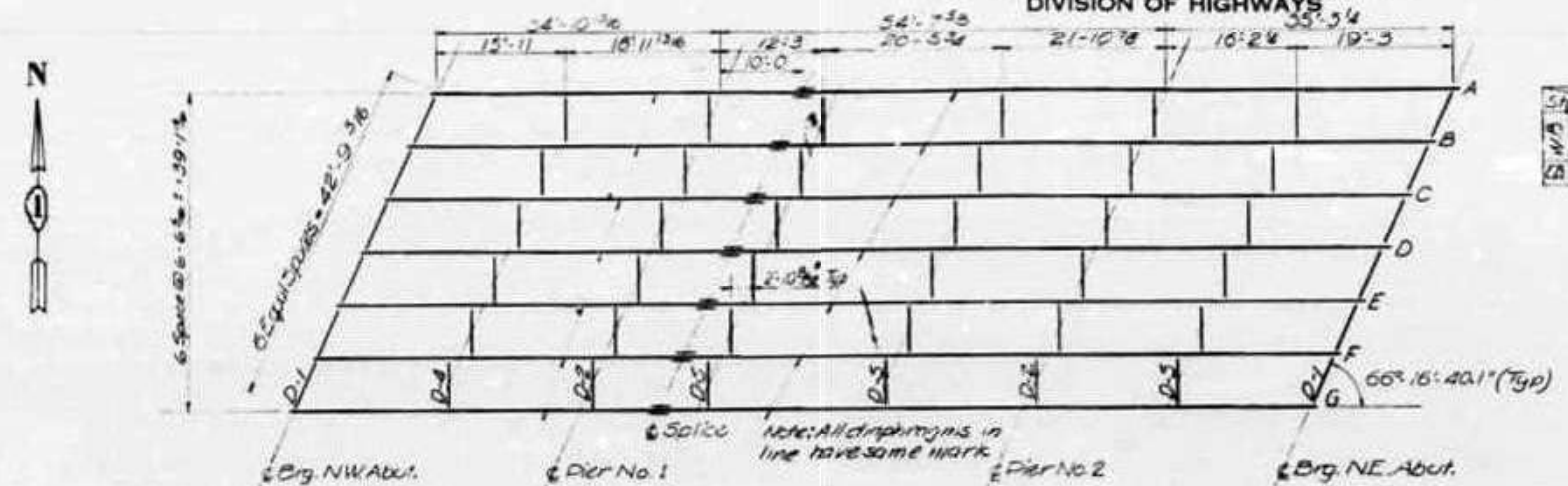
STA. 363+67.23

F.A.I. ROUTE 80
SECTION 99-3 (54'-1")

PROJECT WILL COUNTY
Date Nov. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

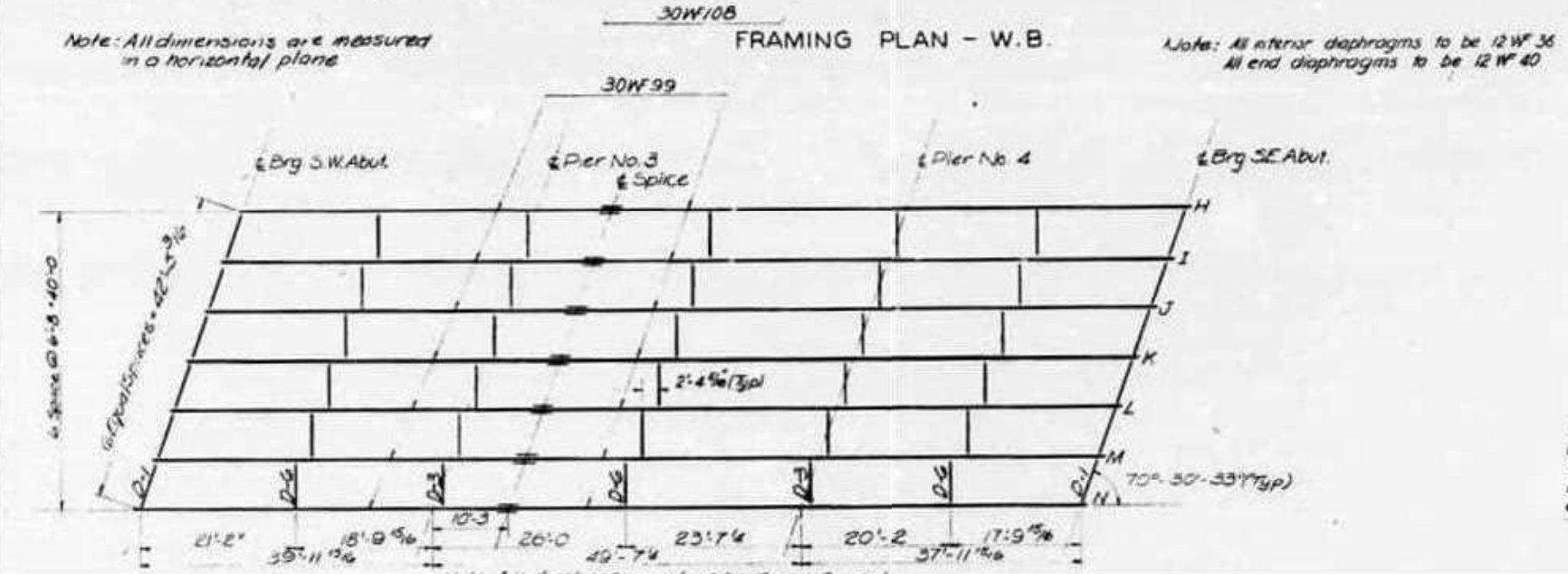
FOR INFORMATION ONLY



DEAD LOAD DEFLECTIONS (+ = downward deflection)

Span	Pt	A	B	C	D	E	F	G	H	I
W.B. A, G		+1.32	+1.32	-1.32	+3.16	+2	+3.16	-1.32	+1.32	+1.32
W.B. B, C, D, E, F		+1.32	+1.32	0	+3.16	+3.16	+3.16	0	+1.32	+1.32
E.B. All Spans		+1.8	+1.8	+1.8	+3.32	+3.16	+3.32	+1.8	+1.8	+1.8

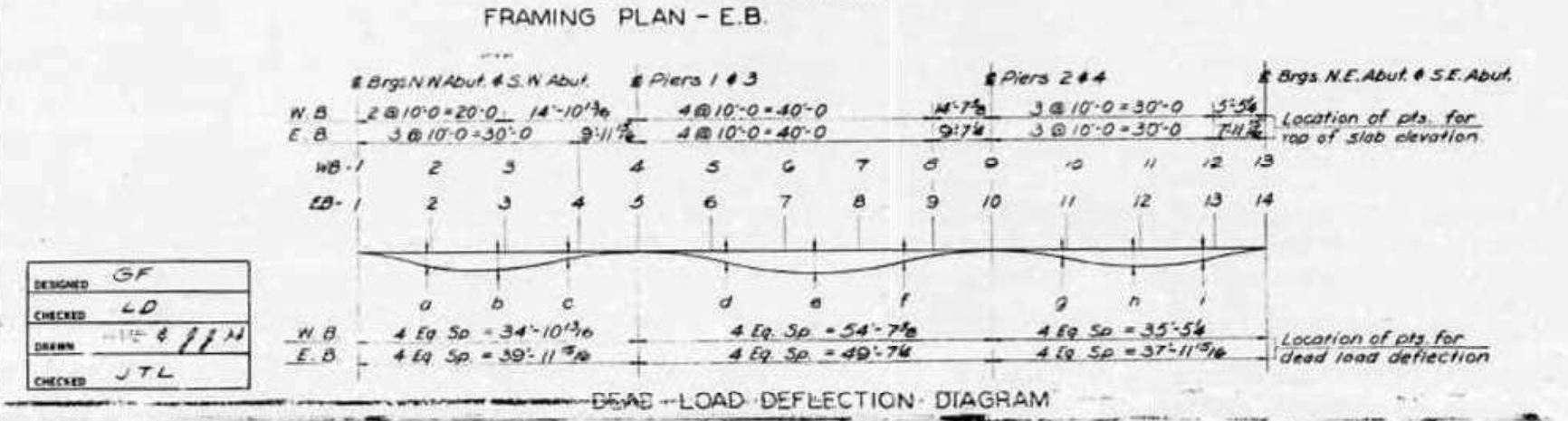
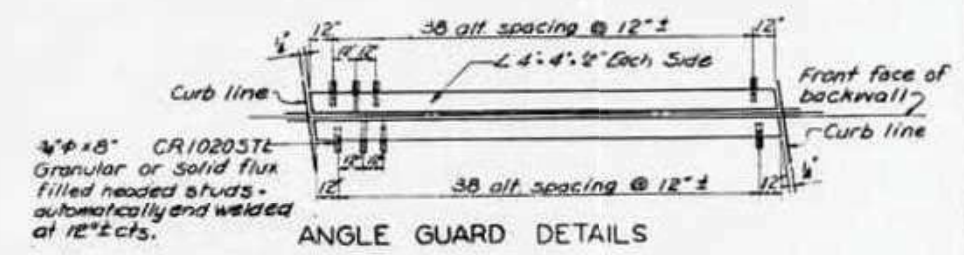
Above deflections are in inches and include weight of concrete only.



AS AWARDED **AS BUILT
TOP OF STRINGER ELEVATIONS**

Span	Pt	W.Abut	Pier #3	Splice	Pier #4	E.Abut
W.B.	A	608.89	608.38	608.23	607.32	606.60
	B	609.04	608.44	608.27	607.24	606.63
	C	609.20	608.52	608.32	607.38	606.56
	D	609.32	608.57	608.35	607.33	606.50
	E	609.39	608.59	608.33	607.35	606.44
	F	609.38	608.56	608.32	607.23	606.37
E.B.	A	609.32	608.50	608.26	607.17	606.31
	B	609.81	608.95	608.73	607.63	607.12
	C	609.99	609.14	608.92	608.02	607.21
	D	610.12	609.27	609.05	608.16	607.25
	E	610.18	609.33	609.11	608.21	607.30
	F	610.13	609.31	609.09	608.20	607.25
N	M	610.07	609.22	609.00	608.12	607.20
	N	609.98	609.12	608.92	608.05	607.12

* These elevations are at top of top flange of stringer, exclusive of deflections.



DESIGNED	GF
CHECKED	LD
DRAWN	JTL
CHECKED	JTL

FRAMING PLAN
FA180 OVER RAMP AB
STA. 363+67.23
PROJECT WILL COUNTY
DATE Nov 30, 1961
BLAUVELT ENGINEERING CO.
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

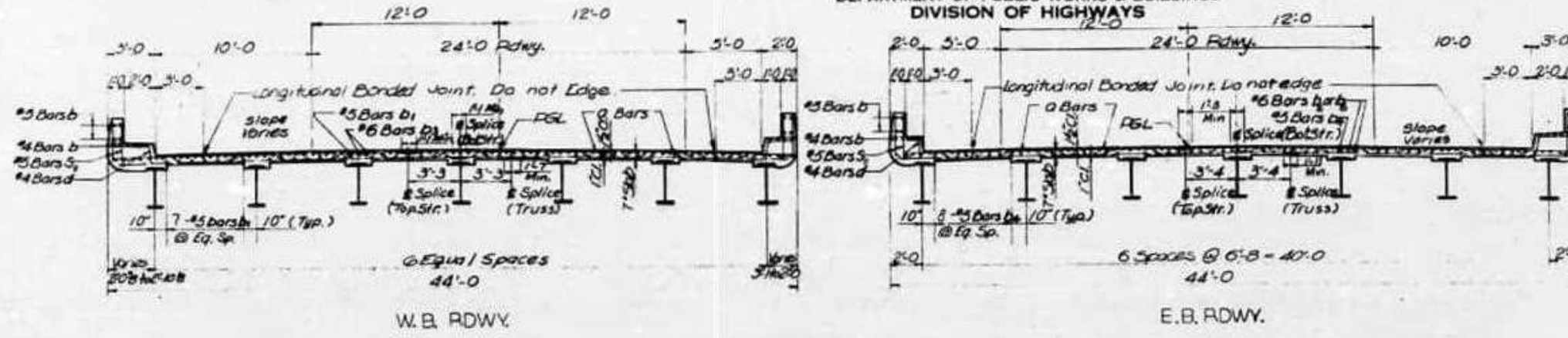
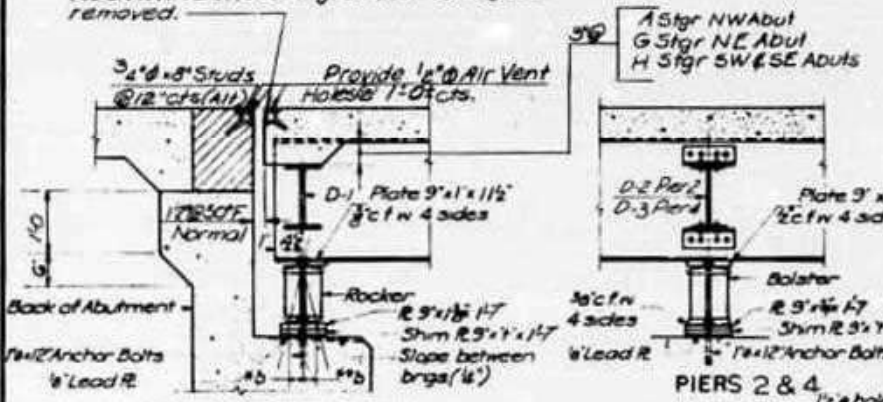


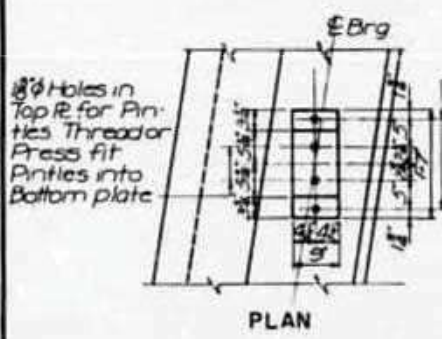
TABLE OF 't' DIMENSIONS
't' = 0' unless otherwise noted

	W. Abut.	Pier 1	Pier 2	Abut.
A				
B				
C				
D				
E				
F				
G				
H				
I				
J				
K				
L				
M				
N				

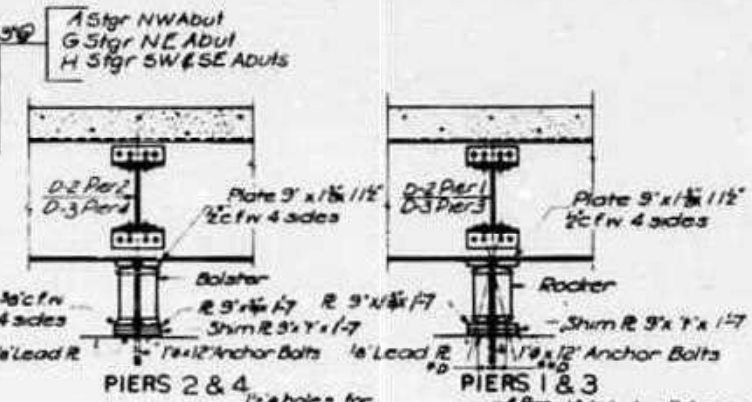
Angles shall be held securely in place while pouring concrete, with 1/2" bolts in 7/8" holes set on gage line at 12" cts. All bolts shall be burned, sawed or clipped flush with back of angle after forms are removed.



SECTION AT ABUTMENTS

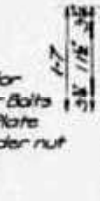


DESIGNED	AME & J.J.H.
CHECKED	J.T.L.
T. DRAWN	AME & J.J.H.
CHECKED	J.T.L.

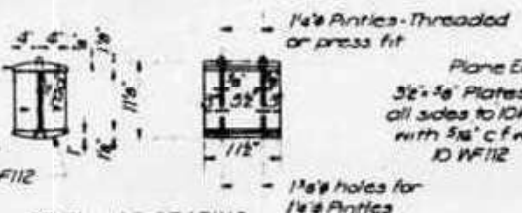


PIERS 2 & 4

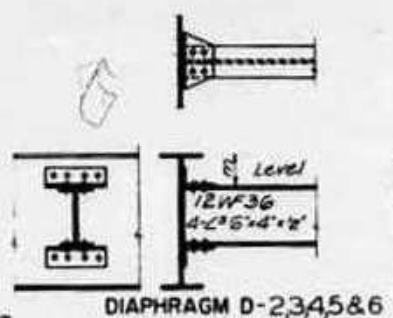
PIERS 1 & 3



DETAIL OF PINTLE

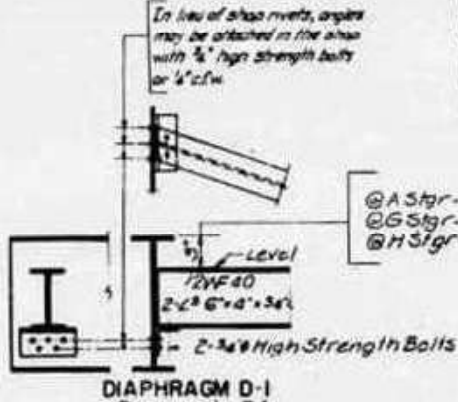


DETAIL OF BEARING AT PIER 1, 3 & ABUTMENTS

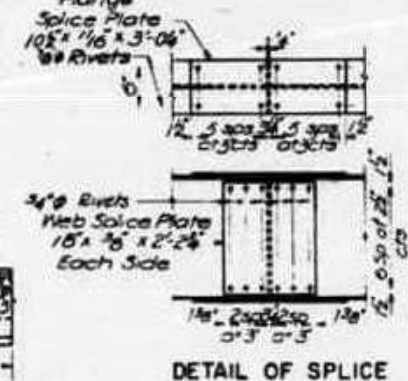


DIAPHRAGM D-2,3,4,5 & 6

Diaphragm	m	@ Stgr	Repd
D-2	7/4	G	12
D-3	7/4	H	12
D-4	5/2	A	6
D-5	5/2	G	18
D-6	5/2	H	18



DIAPHRAGM D-1



DETAIL OF SPLICE

Anchor bolts shall be grouted into drilled holes after beams are in place, or bolts of fixed size may be built into masonry.
*D = 1/100' of esp. for every 15' below the normal temp. of 50°F.
**D = 1/100' of esp. for every 15' above the normal temp. of 50°F.
All structural steel shall be A-36.

@ A Stgr - NW Abut
@ G Stgr - NE Abut
@ H Stgr - SE & SW Abuts

CROSS SECTION & STEEL DETAILS
FAJ.80 OVER RAMP AB

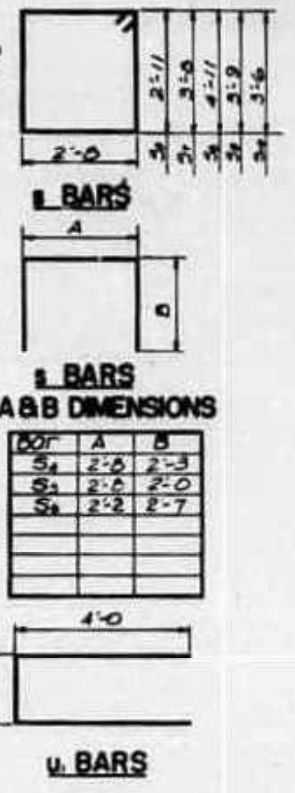
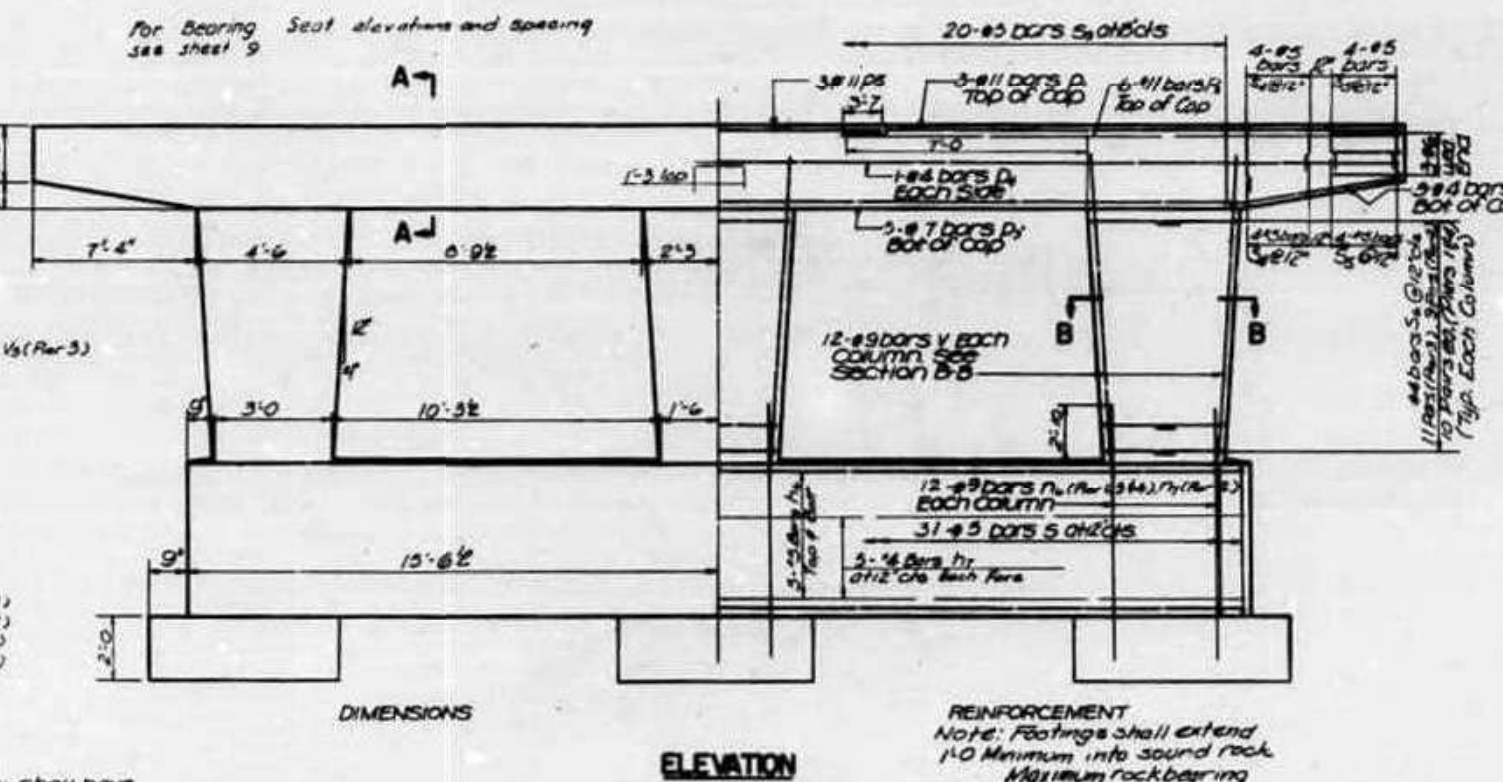
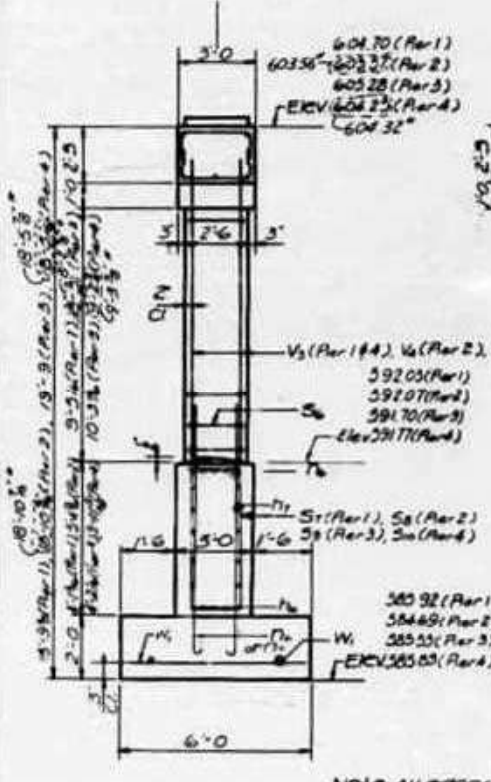
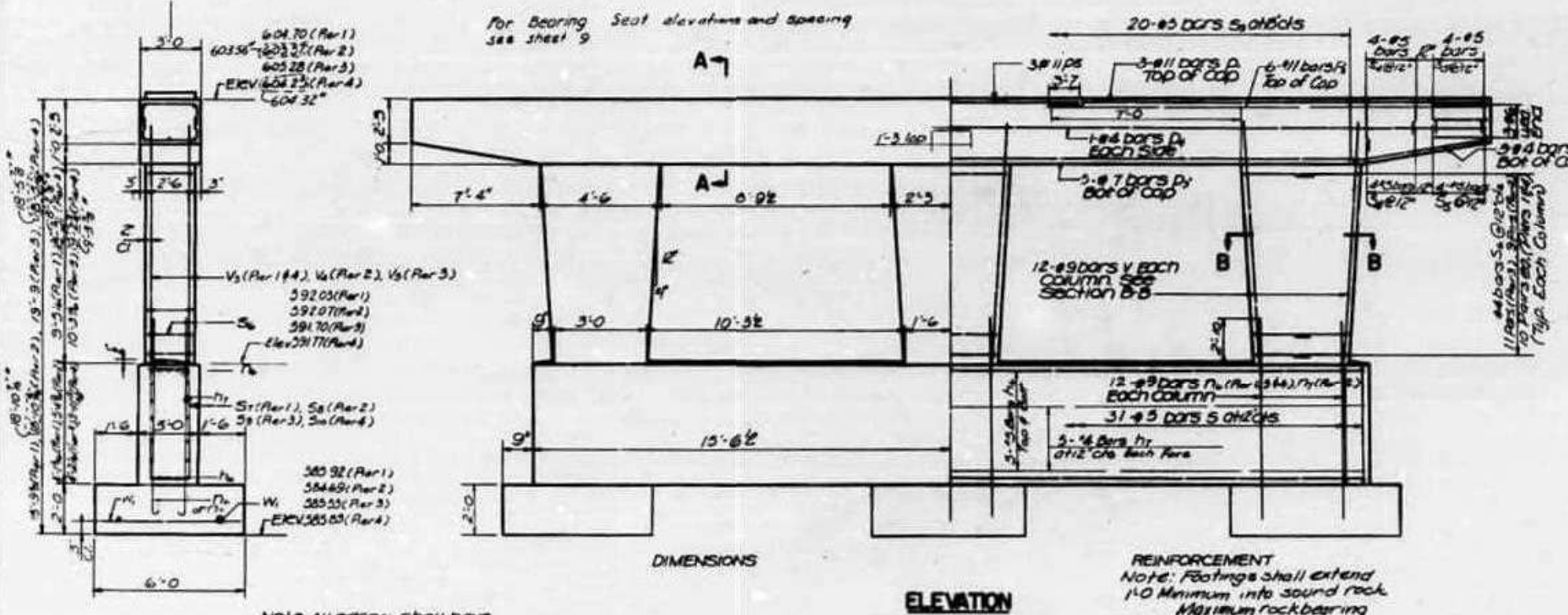
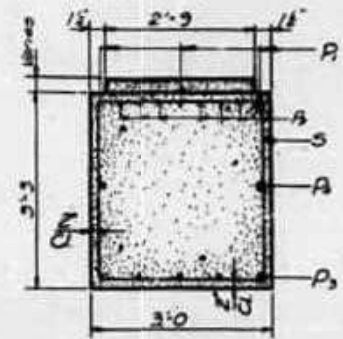
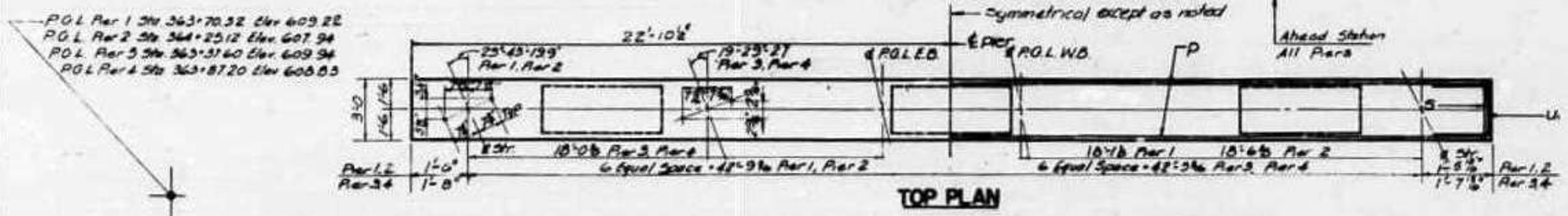
STA. 363+67.23
FAI ROUTE 80 SECTION 99-3 (Str. #1)
SCALE
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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 PROJECT: 8002703-MS70
 SHEET: 4 OF 10
 DATE: 4/22/2025

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

SHEET NO. 6
10 SHEETS



4 PIERS
BILL OF MATERIAL

BAR	NO	SIZE	LNTH	SHAPE
n ₁	40	3	30.9	U
n ₂	40	3	30.9	U
n ₃	100	3	10.1	U
n ₄	36	3	11.3	U
p ₁	12	4	30.0	U
p ₂	24	4	6.10	U
p ₃	12	4	17.6	U
p ₄	40	4	16.4	U
p ₅	20	4	30.7	U
p ₆	16	4	28.0	U
s ₁	60	3	12.5	U
s ₂	64	3	7.2	U
s ₃	64	3	2.0	U
s ₄	960	3	7.4	U
s ₅	31	3	13.8	U
s ₆	31	3	16.2	U
s ₇	31	3	15.0	U
s ₈	31	3	12.4	U
u ₁	24	3	10.0	U
u ₂	72	3	12.5	U
u ₃	36	3	11.0	U
u ₄	36	3	13.1	U
w	192	3	5.0	U
Reinf Bars		lbs	17,580	
Class I Concrete				
Pier 1		cu yds	48.5	
Pier 2		cu yds	51.0	
Pier 3		cu yds	50.2	
Pier 4		cu yds	48.3	
Rock Excavation		cu yds	60	*

* Each Pier = 15 cu yds.

PIERS
FAI 80 OVER RAMP AB

STA. 363+67.23
FAI ROUTE 80 SECTION 99-3 (STR. 1) WILL COUNTY
DATE NO SCALE DATE NOV. 30, 1961

DESIGNED	GF
CHECKED	LD
DRAWN	TLL
CHECKED	JFC

* Rev. Dimensions and Dimensions
C: As Awarded

Increased pier cap length by 8', additional Class I concrete to be placed per pier over old abut.

FOR INFORMATION ONLY



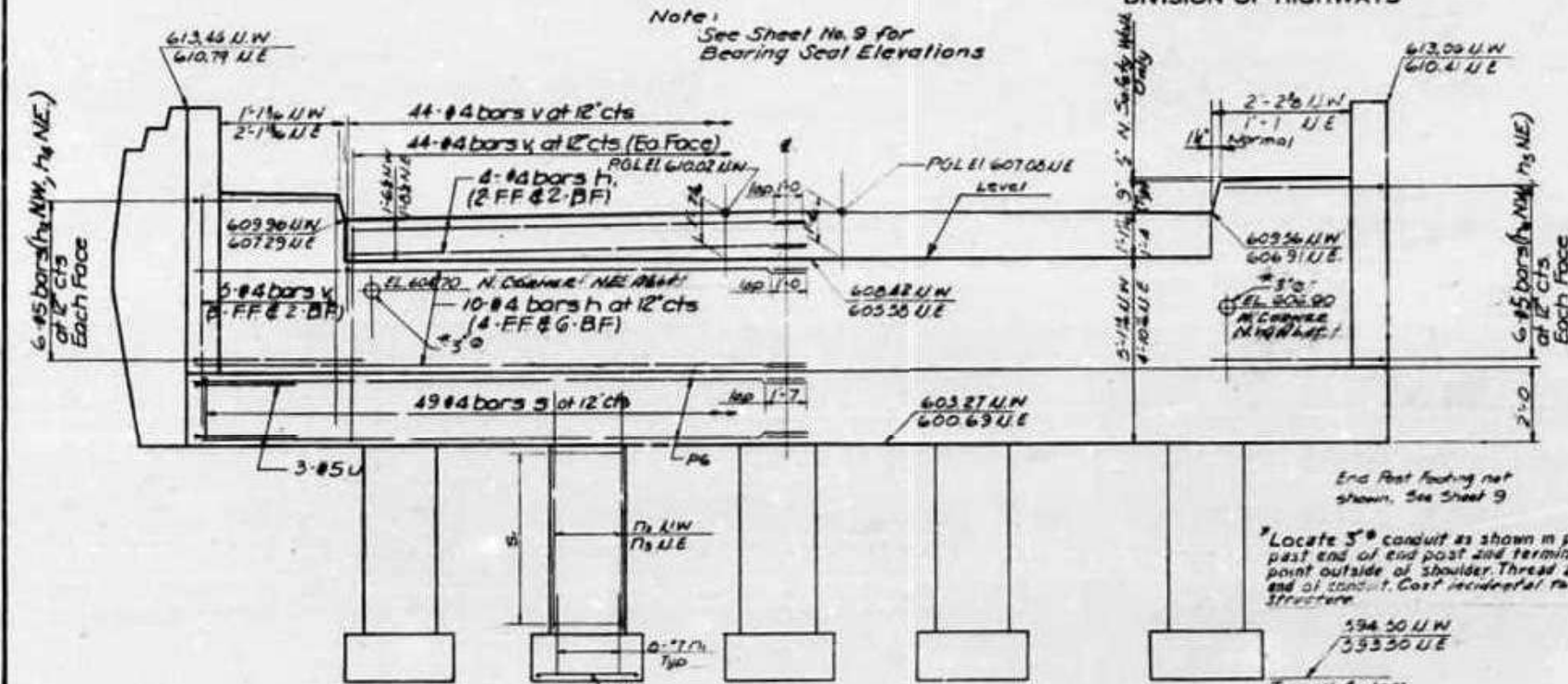
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DESIGNED	-	DRAWN	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
CHECKED	-	DATE	-	REVISED	-
PLOT SCALE	= 7:11,99616 "/in.				
PLOT DATE	= 4/22/2025				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 16 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	836
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



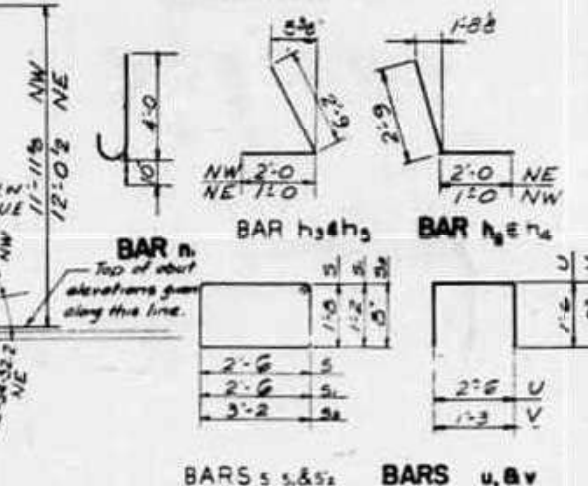
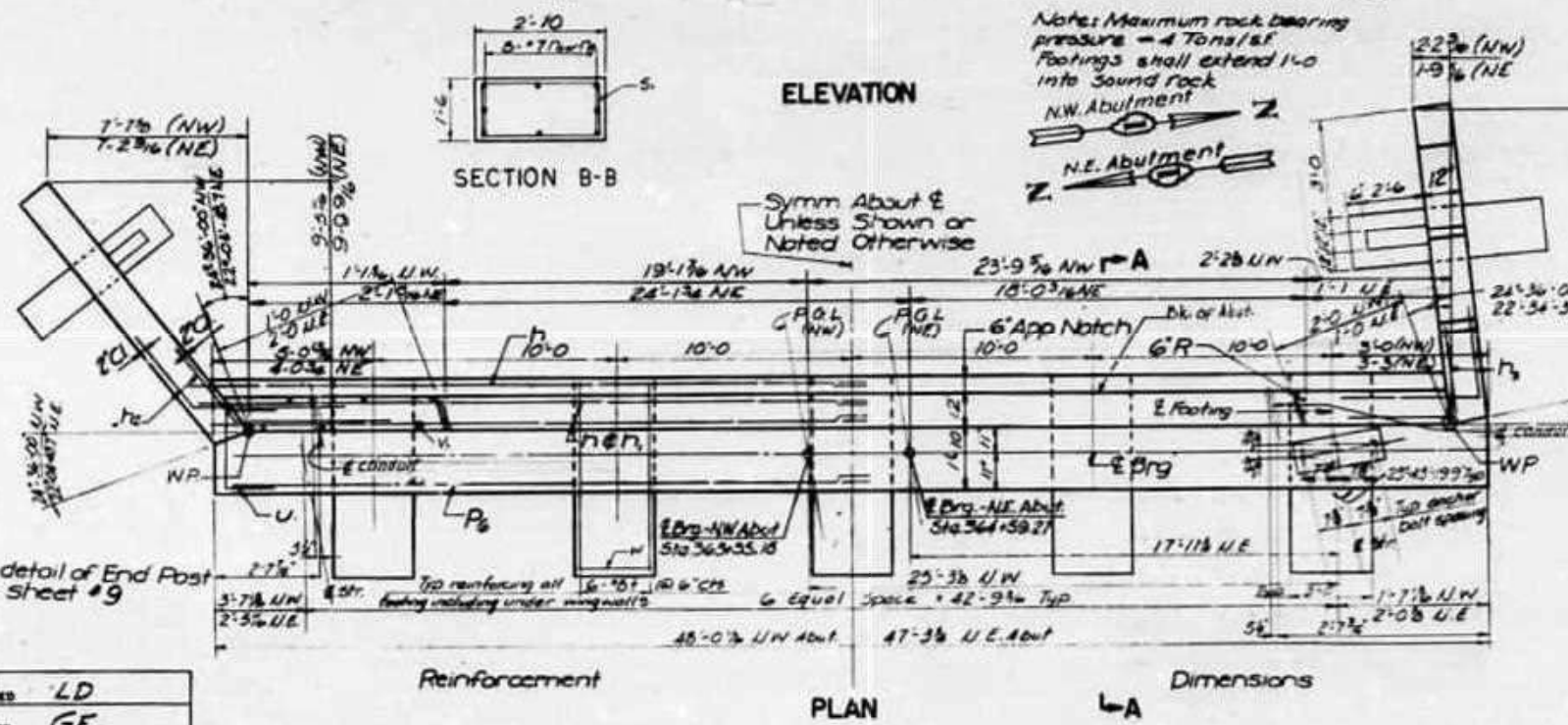
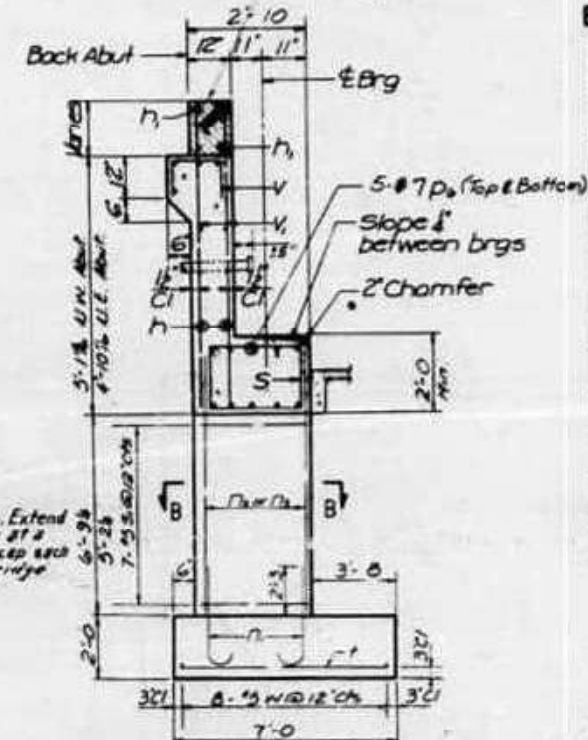
2 ABUTMENTS
BILL OF REINFORCEMENT

Bar No	Size	Length	Shape
h	40	24	24'4"
h1	14	24	21'9"
h2	12	25	4'9"
h3	12	25	4'9"
h4	12	23	3'9"
h5	12	23	3'9"
n	104	27	8'10"
n1	52	27	8'7"
n2	52	27	7'0"
p	40	27	24'7"
s	96	24	5'2"
s1	70	25	8'4"
s2	26	25	8'8"
v	68	24	2'9"
v1	196	24	5'10"
u	12	25	5'6"
u	84	25	6'6"
w	112	25	2'6"

2 ABUTMENTS
BILL OF MATERIAL

Item	Unit	Quan
Reinforcement Bars	Lbs	11780
Class X Concrete		
N.W. Abut	Cu Yds	48.6
N.E. Abut	Cu Yds	48.3
Rock Excavation		
N.W. Abut	Cu Yds	5
N.E. Abut	Cu Yds	14
Class A Excavation		
N.W. Abut	Cu Yds	670
N.E. Abut	Cu Yds	750

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



NW & NE
ABUTMENTS
FAI 80 OVER RAMP AB

STA. 363+67.23
PROJECT
F.A.I. ROUTE 80
SECTION 99-3
WILL COUNTY
Date Nov. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBRIDGE, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

DESIGNED	LD
CHECKED	GF
DRAWN	JTL
CHECKED	JTL

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

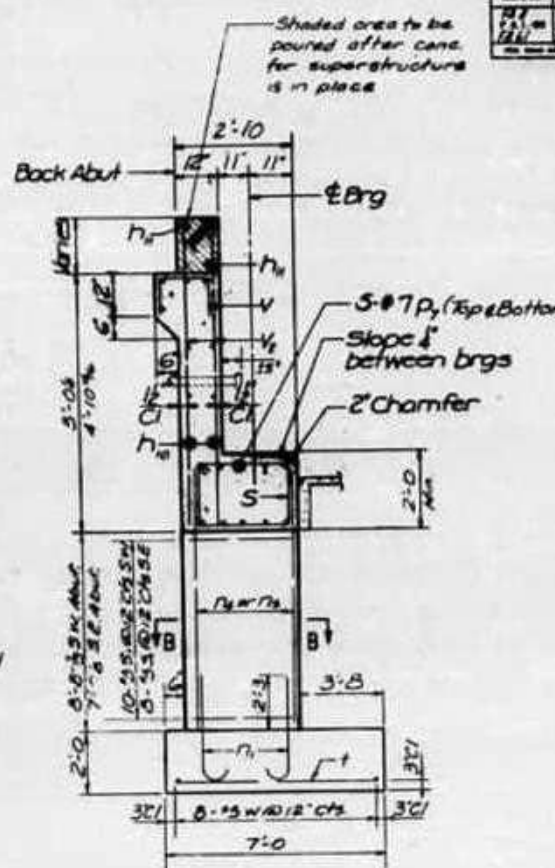
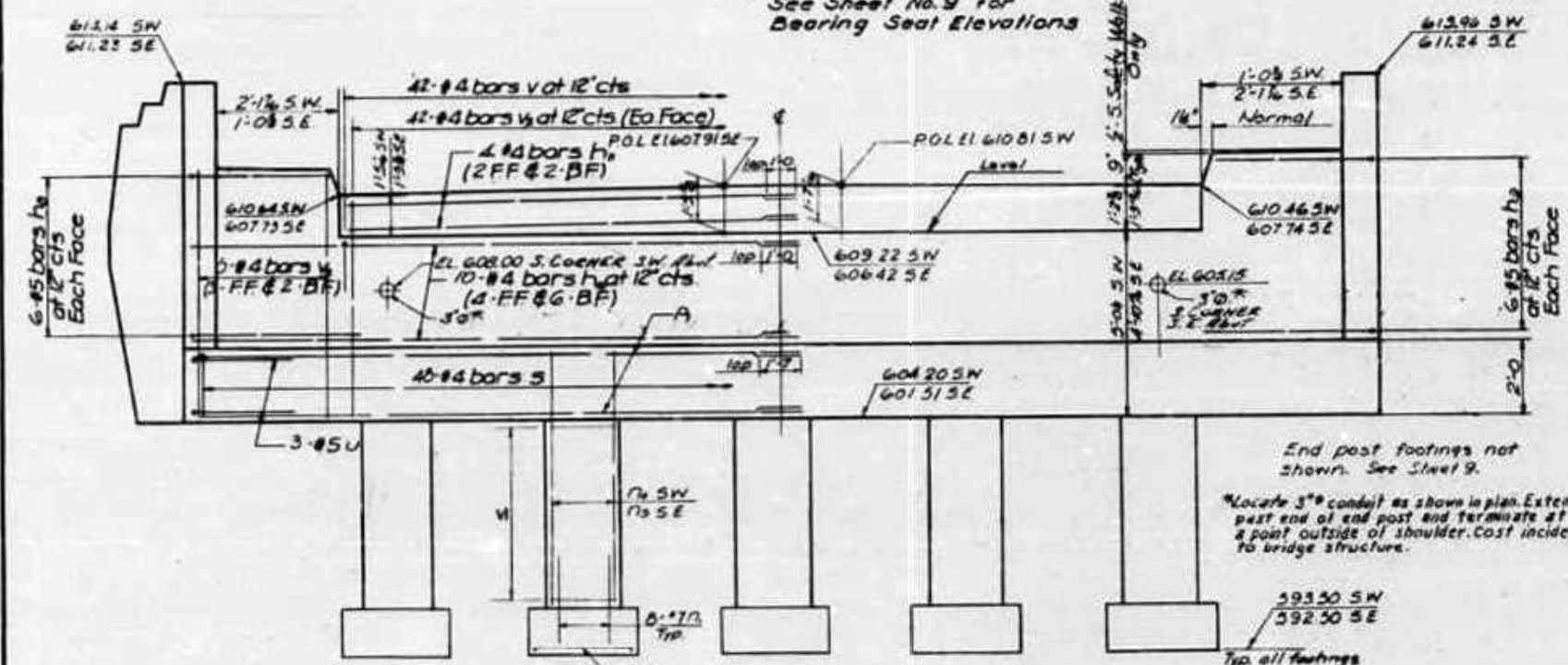
SHEET 17 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	837
				CONTRACT NO. 62R22

ILLINOIS FED. AID PROJECT

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 WSP USA Inc. 30 N. LASALLE STREET SUITE 400 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884

Note:
See Sheet No. 9 for
Bearing Seat Elevations



2 ABUTMENTS
BILL OF REINFORCEMENT

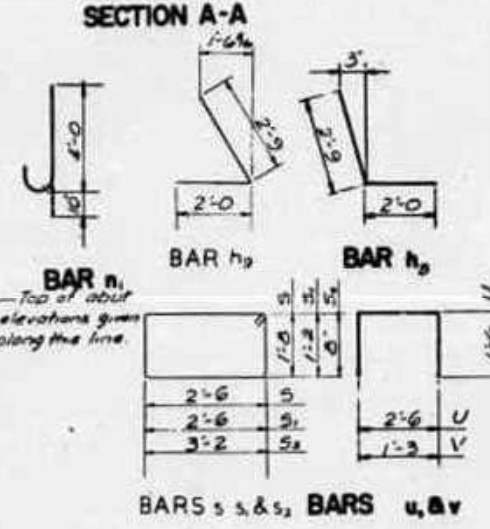
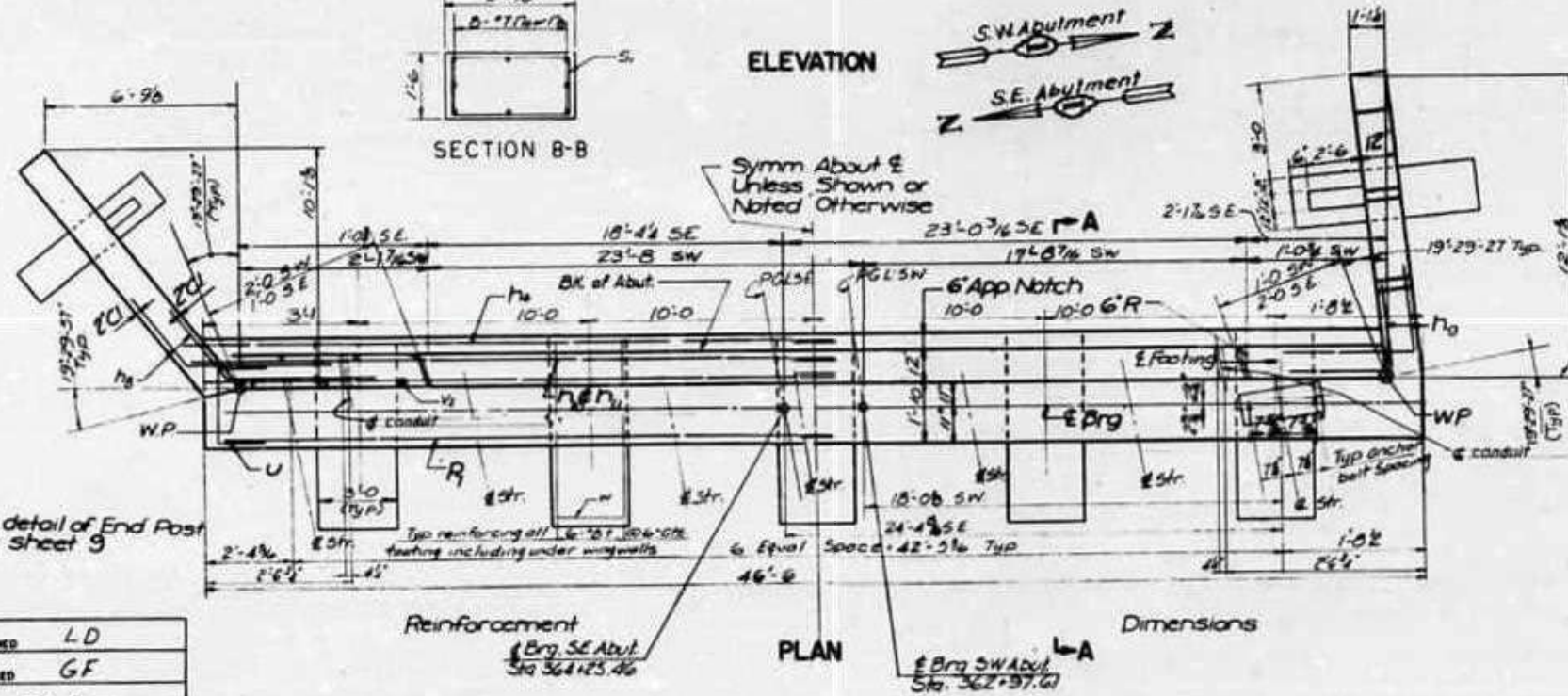
Bar No	Size	Lgth	Shape
P ₁	24	5	4-9
P ₂	24	5	4-9
P ₃	40	4	23-9
P ₄	16	3	21-0
P ₅	104	7	4-10
P ₆	32	7	10-6
P ₇	32	7	8-10
B ₁	40	7	24-0
S ₁	36	4	8-2
S ₂	30	5	8-4
S ₃	36	5	8-8
V ₁	84	4	2-9
V ₂	188	4	5-11
U ₁	12	5	5-6
T ₁	84	8	6-6
W ₁	112	5	2-6

2 ABUTMENTS
BILL OF MATERIAL

Item	Unit	Quan
Reinforcement Bars	Lbs	11680
Class X Concrete		
S.W. Abut	Cu Yds	47.2
S.E. Abut	Cu Yds	43.4
Rock Excavation		
S.W. Abut	Cu Yds	11
S.E. Abut	Cu Yds	14
Class A Excavation		
S.W. Abut	Cu Yds	6.50
S.E. Abut	Cu Yds	6.00

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

Note: Maximum Rock Bearing Pressure = 4 tons/sq ft. Footings shall be extended 1'-0" into sound rock.



SW & SE
ABUTMENTS
FAI 80 OVER RAMP AB

STA. 363+67.23
FAI ROUTE 80 SECTION 99-3
WILL COUNTY
Nov. 30, 1961
BLAUVELT ENGINEERING CO.
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED	LD
CHECKED	GF
DRAWN	T.L.L.
CHECKED	JTL

Reinforcement (Brg, SE Abut Sta. 364+25.46)
Dimensions (Brg SW Abut Sta. 362+37.6)

FOR INFORMATION ONLY



USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DESIGNED	LD	DRAWN	-	REVISED	-
CHECKED	GF	CHECKED	-	REVISED	-
DRAWN	T.L.L.	DATE	-	REVISED	-
CHECKED	JTL				
PLOT SCALE	= 7:11,99616 "/>				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

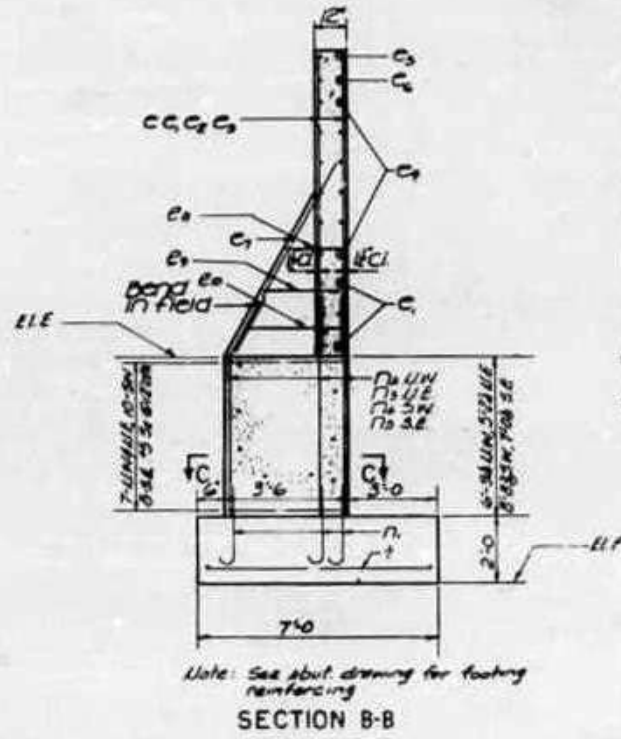
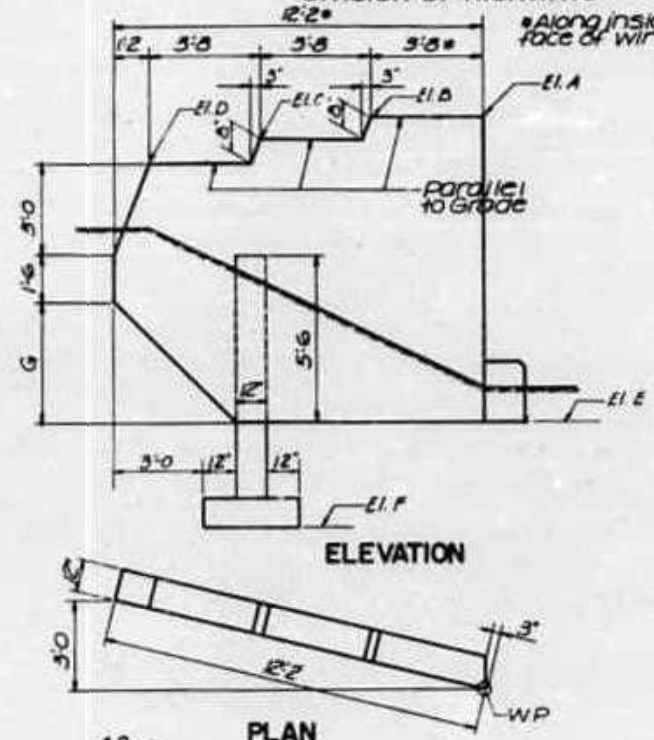
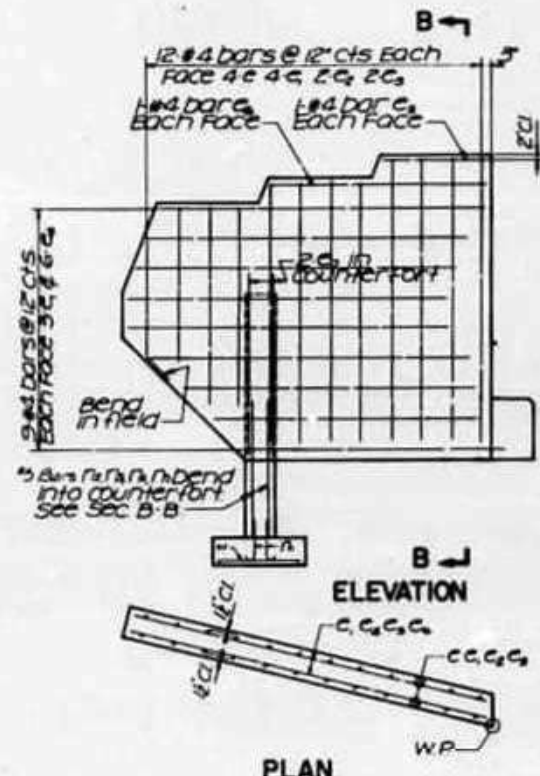
SHEET 18 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	838
				CONTRACT NO. 62R22

ILLINOIS FED. AID PROJECT

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

SHEET NO. 9
10 SHEETS



**ONE END POST
BILL OF MATERIAL**

BAR NO	SIZE	LNTH	SHAPE
C	#8	9'-3"	—
C	#8	8'-6"	—
C	#8	6'-6"	—
C	#8	5'-0"	—
C	#8	10'-6"	—
C	#8	3'-6"	—
C	#8	7'-0"	—
C	#5	7'-0"	—
C	#4	3'-2"	—
C	#4	4'-6"	—
C	#4	5'-10"	—

Reinforcement Bars 105 280
* Included in quantities on Sheets 7 & 8

PAD ELEVATIONS & DIMENSIONS

Dimension	1"=10' Typ	Elevation
N.W. ABUT.	12'-0"	603 27
N.W. ABUT.	12'-0"	603 42
N.W. ABUT.	12'-0"	603 58
N.W. ABUT.	12'-0"	603 70
N.W. ABUT.	12'-0"	603 76
N.W. ABUT.	12'-0"	603 70
PIER 1	12'-0"	604 70
PIER 1	12'-0"	604 76
PIER 1	12'-0"	604 84
PIER 1	12'-0"	604 88
PIER 1	12'-0"	604 82
PIER 2	12'-0"	603 07
PIER 2	12'-0"	603 01
PIER 2	12'-0"	602 94
PIER 2	12'-0"	602 88
PIER 2	12'-0"	602 82
PIER 2	12'-0"	602 75
PIER 2	12'-0"	602 69
PIER 3	12'-0"	606 20
PIER 3	12'-0"	606 36
PIER 3	12'-0"	606 51
PIER 3	12'-0"	606 54
PIER 3	12'-0"	606 46
PIER 3	12'-0"	606 37
PIER 4	12'-0"	604 32
PIER 4	12'-0"	604 25
PIER 4	12'-0"	604 45
PIER 4	12'-0"	604 44
PIER 4	12'-0"	604 56
PIER 4	12'-0"	604 58
PIER 4	12'-0"	604 49
PIER 4	12'-0"	604 54
PIER 4	12'-0"	604 41
PIER 4	12'-0"	604 45
N.E. ABUT.	12'-0"	603 51
N.E. ABUT.	12'-0"	603 40
N.E. ABUT.	12'-0"	603 67
N.E. ABUT.	12'-0"	603 59
N.E. ABUT.	12'-0"	603 51
S.W. ABUT.	12'-0"	606 20
S.W. ABUT.	12'-0"	606 36
S.W. ABUT.	12'-0"	606 51
S.W. ABUT.	12'-0"	606 54
S.W. ABUT.	12'-0"	606 46
S.W. ABUT.	12'-0"	606 37
S.E. ABUT.	12'-0"	603 51
S.E. ABUT.	12'-0"	603 40
S.E. ABUT.	12'-0"	603 67
S.E. ABUT.	12'-0"	603 59
S.E. ABUT.	12'-0"	603 51

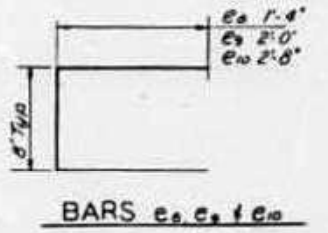
Class X Concrete

N.W. Abut	Cu Yds	8.3
N.E. Abut	Cu Yds	8.0
S.W. Abut	Cu Yds	8.2
S.E. Abut	Cu Yds	7.0

* Included in quantities on Sheets 7 & 8

TABLE OF WINGWALL ELEVATIONS & DIMENSIONS

Abut	Part	A	B	C	D	E	F	G
N.W. Abut	W. Wall	613.00	612.14	612.84	611.98	603.27	594.50	4'-2 1/2"
N.W. Abut	E. Wall	613.46	612.54	612.84	612.35	603.27	594.50	4'-7"
N.E. Abut	W. Wall	610.78	610.70	609.95	609.19	600.69	593.50	4'-0"
N.E. Abut	E. Wall	610.41	610.32	609.57	608.81	600.69	593.50	3'-7 1/2"
S.W. Abut	W. Wall	613.94	614.04	613.44	612.85	604.30	593.50	4'-7 1/2"
S.W. Abut	E. Wall	614.14	614.22	613.62	613.03	604.30	593.50	4'-4"
S.E. Abut	W. Wall	611.23	611.14	610.39	609.63	601.51	592.50	3'-7 1/2"
S.E. Abut	E. Wall	611.24	611.15	610.40	609.64	601.51	592.50	3'-7 1/2"



PIER ELEVATIONS & ABUTMENT DETAILS
FAI 80
OVER RAMP AB
STA. 363+67.23
FAI ROUTE 80
SECTION 29-3
Scale: NO SCALE
Blauvelt Engineering Co.
Consulting Engineers
WOODSBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

DESIGNED	TLL
CHECKED	JTL
DRAWN	SEF
CHECKED	JTL

FOR INFORMATION ONLY

WSP USA Inc.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME	= USCP702533
DESIGNED	-
DRAWN	-
PLOT SCALE	= 7:11.99616'' / in.
PLOT DATE	= 4/22/2025
REVISIONS	-
DATE	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 19 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	839
				CONTRACT NO. 62R22
ILLINOIS FED. AID PROJECT				

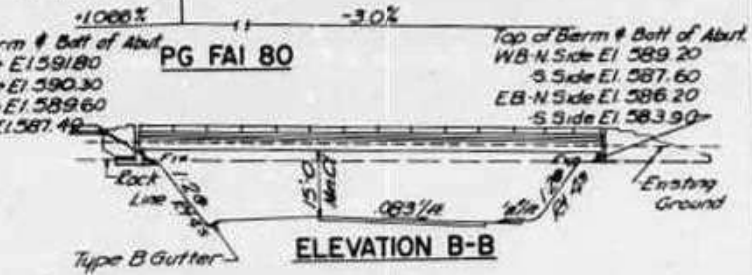
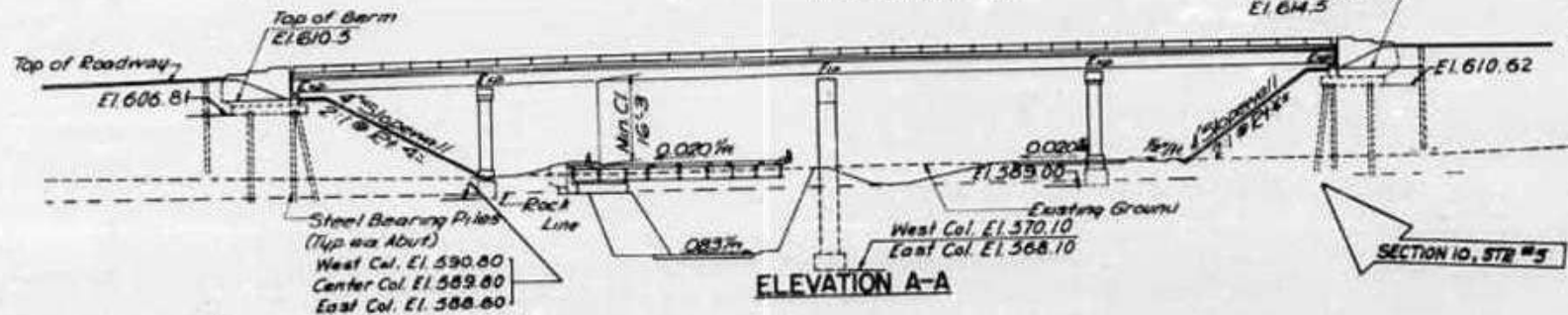
Bench Mark No 44A R.R.Spk. in power pole NW Corner
Lucas and Hunter Sts. Elev. 590.454
No Existing Structure

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

PI 57a 358+80
E1 623.59
VC=1800'
WG=11.13

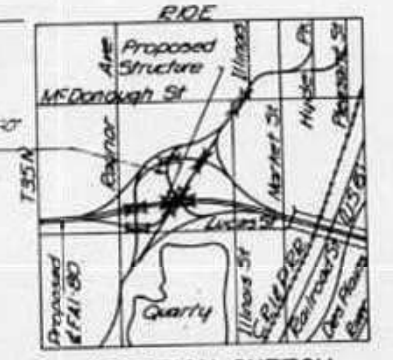
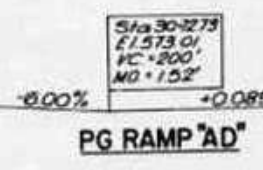
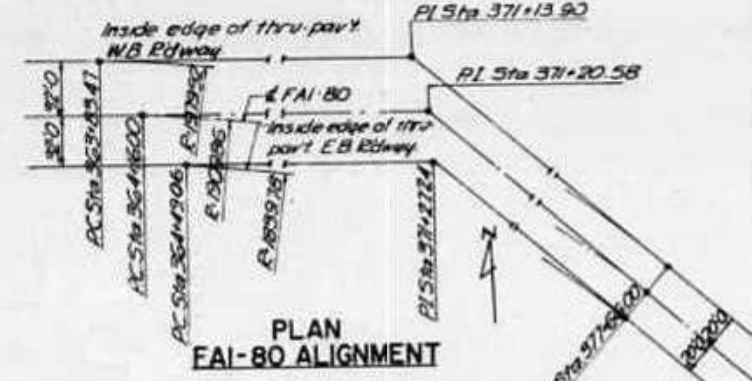
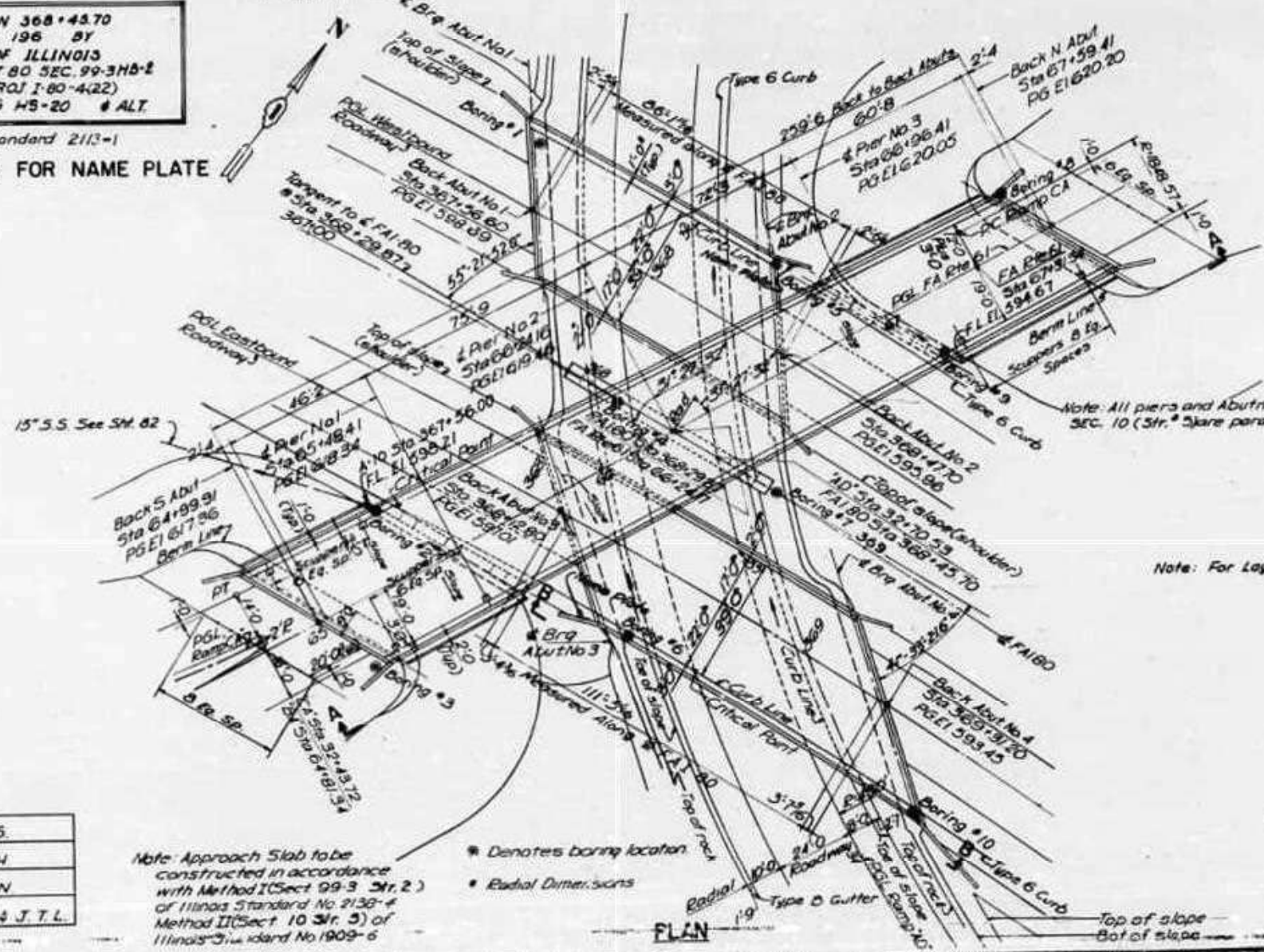
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5
1	1	1	1	1
1	1	1	1	1
1	1	1	1	1

SHEET NO. 1
12 SHEETS



STATION 368+45.70
BUILT 196 BY
STATE OF ILLINOIS
FAI RT 80 SEC. 99-3HD-2
FA PROJ I-80-4(22)
LOADING HS-20 # ALT.
See Standard 2113-1

LETTERING FOR NAME PLATE



DESIGNED	C. S.
CHECKED	R. H.
DRAWN	G. N.
CHECKED	R. H. & J. T. L.

Note: Approach Slab to be constructed in accordance with Method I (Sect 99-3 Str. 2) of Illinois Standard No 2136-4 Method II (Sect 10 Str. 5) of Illinois Standard No 1909-6

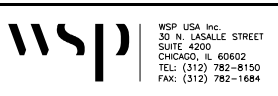
- * Denotes boring location
- * Radial Dimensions

Prepared And Recommended By
Blauvelt Engineering Co.
Structural Engineer
81-2251
Sam J. Blauvelt

GENERAL PLAN & ELEVATION
FAI-80 OVER RAMP AD
STA 368+45.70
FAI ROUTE 80 SECTION 99-3HD-2
SHEET NO SCALE
PROJECT I-80-4(22)-133
WILL COUNTY
DATE NOV 30, 1981
BLAUVELT ENGINEERING CO
CONSULTING ENGINEERS
WOODBURY, N. J. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

MODEL: Default; FILE NAME: p:\transys\comp\pwt\hatched\Documents\projects_2018\040118002703-MS7\CD\062022-INT-1 (Center) Streets\Structural\Existing Bridge Plans\0990186-62R22-25.fghr20.dgn



USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
PLOT SCALE	= 7:11,99616 "/> <td>CHECKED</td> <td>-</td> <td>REVISED</td> <td>-</td>	CHECKED	-	REVISED	-
PLOT DATE	= 4/22/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

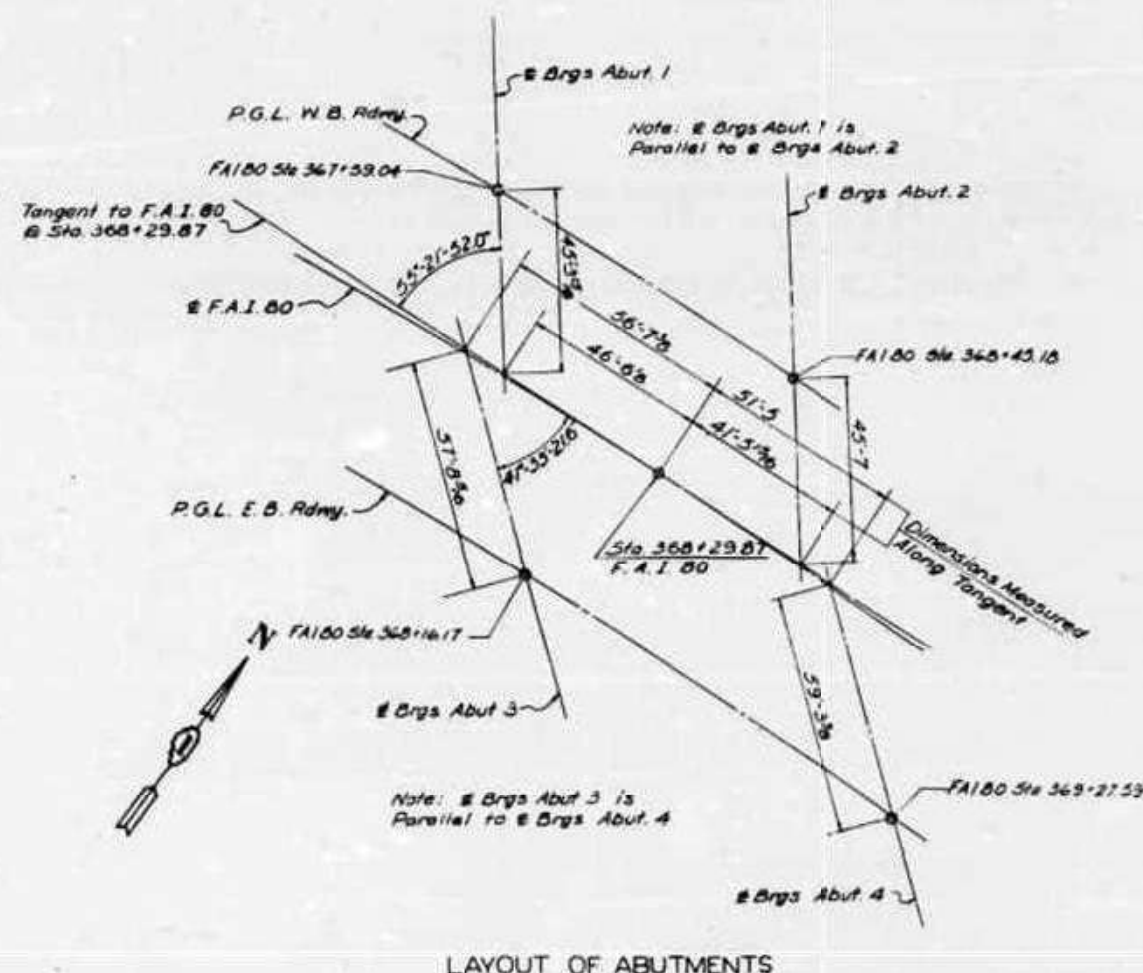
EXISTING BRIDGE PLANS
SHEET 20 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	840
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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

DATE	NO.	BY	DATE	NO.	BY
11-10-79	1	WLL	11	80	
12-11-80	2				

SHEET NO. 2
12 SHEETS



DESIGN STRESSES

Reinforced Concrete:
 $f_c = 3,500$ psi.
 $f_s = 20,000$ psi.
 $n = 10$.
 $f_c = 1,400$ psi. (Except Footings)
 $f_c = 1,000$ psi. (Footings)
 $v_c = 90$ psi. (Except Footings)
 $v_c = 75$ psi. (Footings)
 Structural Steel:
 $f_s = 20,000$ psi.
 Maximum Soil Pressure = $3\frac{1}{2}$ Tons/3.F.
 Loading: HS-20-44 # All.

TOTAL BILL OF MATERIALS
Section 89-3 (Str. 2)

Item	Unit	Super.	Sub.	Total
Rock Excavation for Structures	Cu Yd	—	55	55
Class X Concrete	Cu Yd	260.5	197.2	457.5
Furnishing & Erecting Structural Steel	Lb.	443,890	—	443,890
Reinforcement Bars	Lb.	40,490	16,890	57,380
Ugma Plate	Sq Yd	2	—	2
Aluminum Handrail	Lin Ft	407	—	407
Bridge Seat Sealant	Lb.	—	2.2	2.2
Protective Coat	Sq Yd	1082	—	1082

GENERAL NOTES

STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A36.

RIVETS SHALL BE $\frac{3}{4}$ " # WITH $\frac{1}{16}$ " # OPEN HOLES UNLESS NOTED.

CLASS X CONCRETE SHALL BE USED THROUGHOUT. COARSE AGGREGATE USED IN PARAPETS AND END POSTS SHALL BE FREE OF CHERT, FLINT, LIMONITE, LEUKITE AND SOFT SANDSTONE.

THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.

ALL WELDING SHALL COMPLY WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, OF THE AMERICAN WELDING SOCIETY AND THE SPECIAL PROVISIONS.

ALL BOLTERS, BOLTERS, BEARING PLATES, LEAD PLATES, FIBERED, 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.

ANCHOR BOLTS SHALL BE SET BEFORE CONCRETING DIAPHRAGMS OVER SUPPORT. SPACE RESPONSIBLE TO RISE ANCHOR BOLTS.

EXPANSION GUARDS AND PLATES SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 51.13 (4) 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 SURFACES OF EXPANSION GUARDS INACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT. THE $\frac{1}{4}$ " # WELDED STEEL SHALL NOT BE PAINTED.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING CONCRETE FLOOR.

Excavation for portions of structure in the embankment shall not be classified.

DESIGNED	GF
CHECKED	J.T.L.
DRAWN	J.F.M.
CHECKED	J.T.L.

GENERAL NOTES & LAYOUT
FAI 80 OVER RAMP AD
STA. 368+45.70

FAI ROUTE 80
SECTION 89-3
Date: No Scale

PROJECT
WILL COUNTY
Date: Nov. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 21 OF 62 SHEETS

USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	DRAWN	-	REVISED	-
CHECKED	-	CHECKED	-	REVISED	-
DATE	-	DATE	-	REVISED	-

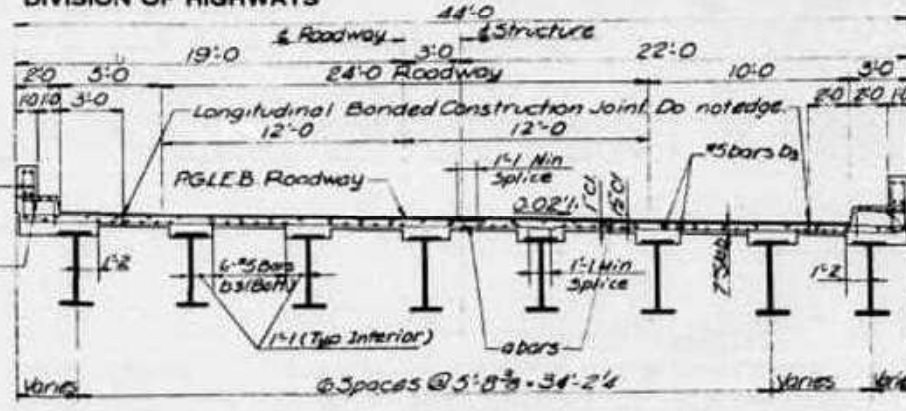
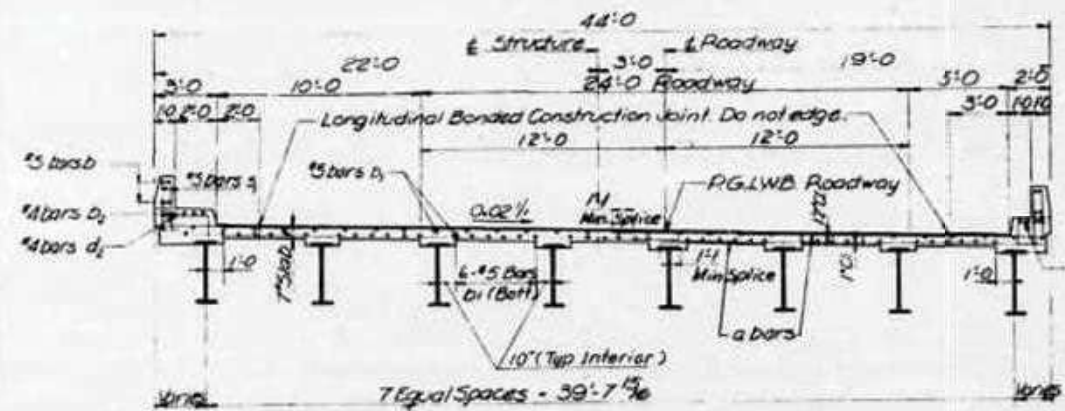
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	841
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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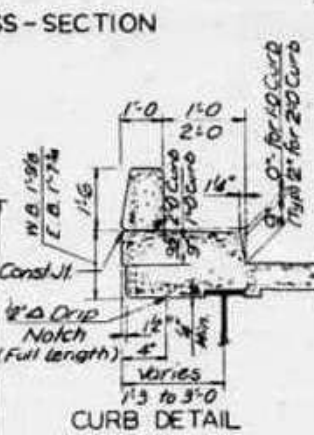
wsp
 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

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

DATE	NO.	BY	CHKD.	APPD.	SHEET NO. 3
11/21/61	177	BS7			1/2 SHEETS

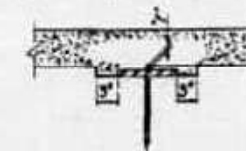


CROSS-SECTION



After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on the D.L. Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals fillet heights above top of beams.

METHOD OF DETERMINING FILLET HEIGHT 't'



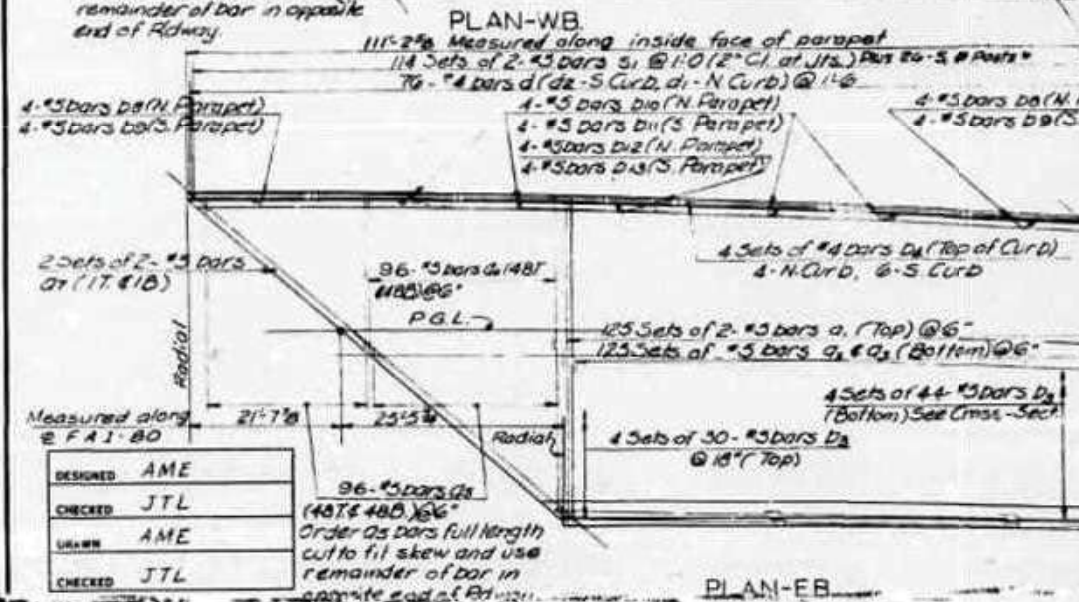
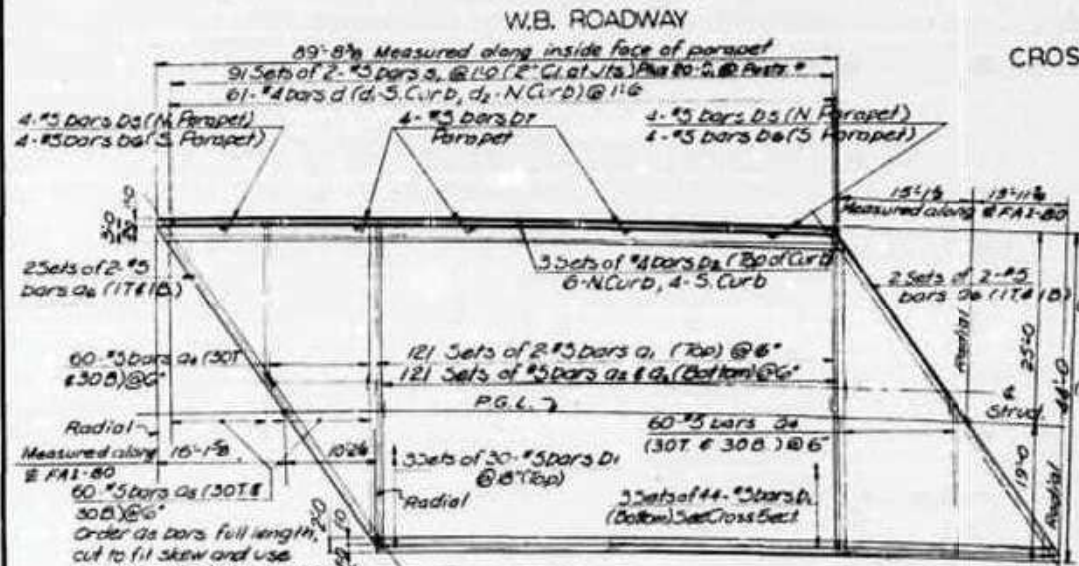
BILL OF REINFORCEMENT

Bar No.	No.	Length	Shape
01	492	3	22'-4"
02	246	3	23'-0"
03	246	3	19'-8"
04	312	3	21'-0"
05	312	3	23'-6"
06	8	3	21'-6"
07	4	3	32'-9"
08	4	3	35'-0"
D1	272	3	30'-0"
D2	30	4	30'-0"
D3	296	3	28'-11"
D4	40	4	28'-11"
D5	0	3	15'-3"
D6	8	3	15'-0"
D7	24	3	19'-2"
D8	8	3	14'-7"
D9	8	3	14'-0"
D10	18	3	17'-10"
D11	18	3	18'-6"
D12	4	3	8'-3"
D13	4	3	8'-1"
<hr/>			
d1	137	4	2'-9"
d2	137	4	3'-9"
s1	912	5	2'-10"

BILL OF MATERIALS

Class "X" Concrete	Cu.Yd.	260.9
Reinforcement Bars	Lbs.	60,490
Structural Steel**	Lbs.	44,890

** Structural Steel includes weight of Rockers, Bolsters, Bearing Plates, Lead Plates, Pintles and Anchor Bolts
Estimated Wt. = 10,537*



Note: Reinforcement in Parapets and Curbs symmetrical about centerline of Structures unless noted otherwise for Parapet Joint. Dimension See site.

DESIGNED	AME
CHECKED	JTL
DRAWN	AME
CHECKED	JTL

SLAB PLAN & CROSS-SECTION
FAI 80 OVER RAMP AD

FAI 80 STA. 368+45.70
PROJECT
SECTION 99-3 (STR.#2) WILL COUNTY
Date None Date Nov. 30, 1961
BLAUVELT ENGINEERS CO.
CONSULTING ENGINEERS
WOODBURN, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

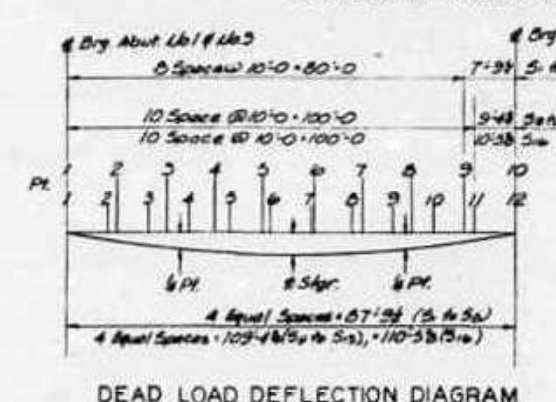
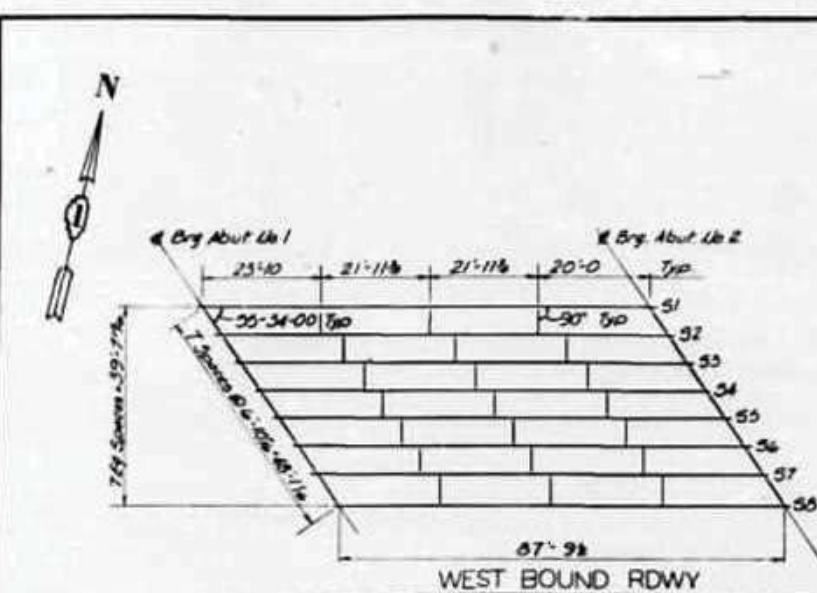
ELEVATIONS - TOP OF SLAB*** Elevations are not adjusted for dead load deflections.

STATION	1	2	3	4	5	6	7	8	9	10	11	12
West Bound	599.66	599.28	598.98	598.66	598.38	598.08	597.78	597.49	597.19	596.96		
S1	599.36	599.06	598.75	598.45	598.15	597.86	597.56	597.26	596.96	596.73		
S2	599.13	598.83	598.53	598.23	597.93	597.63	597.33	597.03	596.74	596.51		
S3	598.91	598.61	598.30	598.00	597.70	597.40	597.10	596.80	596.51	596.28		
S4	598.68	598.38	598.08	597.77	597.47	597.17	596.87	596.57	596.28	596.05		
S5	598.46	598.15	597.85	597.55	597.24	596.94	596.64	596.34	596.05	595.81		
S6	598.23	597.93	597.62	597.32	597.02	596.71	596.41	596.11	595.82	595.58		
S7	598.00	597.70	597.39	597.09	596.79	596.48	596.18	595.88	595.58	595.35		
S8	597.85	597.54	597.23	596.92	596.61	596.30	596.00	595.69	595.39	595.09	594.78	594.50
S9	597.53	597.22	596.91	596.60	596.29	595.99	595.68	595.38	595.07	594.77	594.47	594.19
S10	597.22	596.91	596.60	596.29	595.98	595.67	595.36	595.06	594.76	594.45	594.15	593.87
S11	596.90	596.59	596.28	595.97	595.66	595.35	595.05	594.74	594.44	594.14	593.83	593.55
S12	596.59	596.27	595.96	595.65	595.34	595.04	594.73	594.42	594.12	593.82	593.52	593.23
S13	596.27	595.96	595.65	595.35	595.03	594.72	594.41	594.11	593.80	593.50	593.19	592.91
S14	595.95	595.64	595.33	595.02	594.71	594.40	594.09	593.79	593.48	593.18	592.88	592.59
S15	595.69	595.37	595.06	594.75	594.43	594.12	593.82	593.51	593.20	592.90	592.59	592.27

*** Where curb is over stringer, elevation shown is that of the projection of top of slab along its cross slope. See sheet 4 for locations of points.

FOR INFORMATION ONLY

	USER NAME = USCP702533 PLOT SCALE = 7:11,99616 "/in. PLOT DATE = 4/22/2025	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS	F.A.I. RTE. 80 SECTION FAI 80 21 INTERCHANGE COUNTY WILL SHEET NO. 842 CONTRACT NO. 62R22
	WSP USA Inc. 30 N. LASALLE STREET SUITE 400 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884	SHEET 22 OF 62 SHEETS ILLINOIS FED. AID PROJECT				



WB STRINGERS

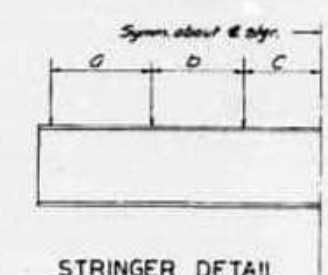
SPR	PT	4 Pts	8
S1	176	232	
S2 to S4	176	176	
S5	176	1292	

Deflections for W.B. stringers are for concrete only.

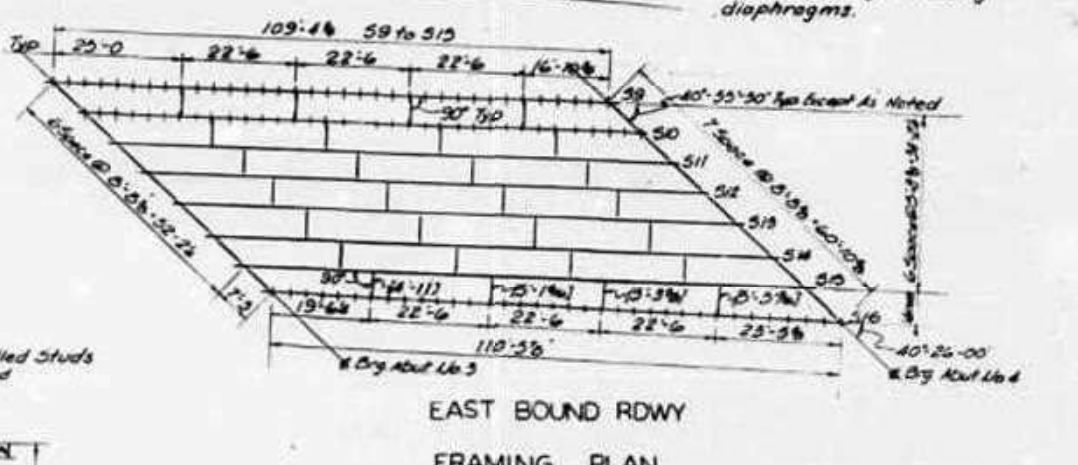
E.B. STRINGERS

SPR	Steel	Conc	Total		
			Steel	Conc	Total
S1	232	232	464	232	696
S2 to S4	176	232	352	232	584
S5	176	232	352	316	668

E.B. stringers shall be cambered for total dead load deflection.



Note:
E.B. interior stringer intermediate stiffeners shown are typical for all E.B. interior stringers.
Flange and web splices to clear intermediate stiffeners by 1'-0". Intermediate stiffeners to be spaced equally between cross frames with number as shown on framing plan.

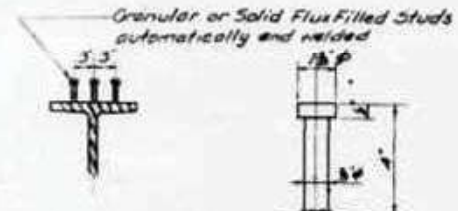
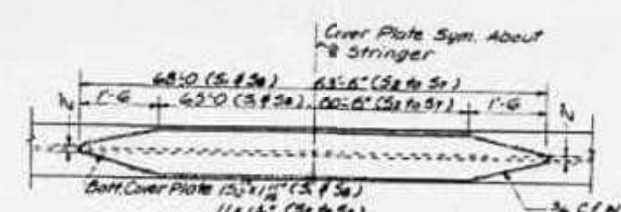


ELEVATIONS TOP OF BEAM

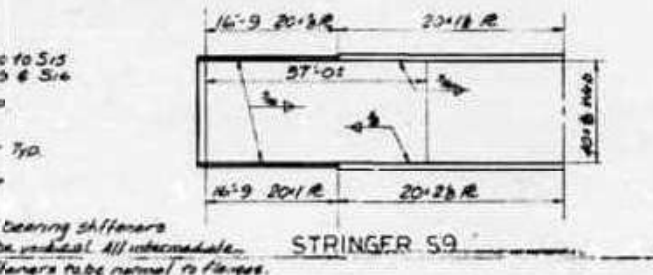
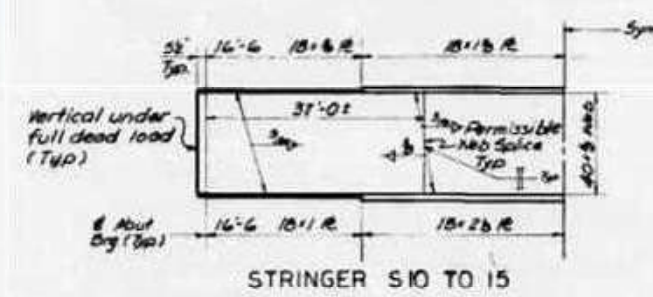
SPR	PT	Abuts 1&3	Abuts 2&4
West Bound	S1	596.98	596.36
	S2	596.76	596.13
	S3	596.53	595.91
	S4	596.31	595.68
	S5	596.08	595.45
East Bound	S6	597.06	595.27
	S7	597.63	594.98
	S8	597.40	594.75
	S9	597.19	593.88
	S10	596.87	593.53
	S11	596.55	593.21
	S12	596.24	592.89
	S13	595.93	592.57
	S14	595.61	592.25
	S15	595.29	591.93
S16	595.02	591.60	

BEAM SCHEDULE & SHEAR CONNECTOR SPACING

SPR	Size	Shear Connector		
		D	B	C
S1 to S5	36" x 260	9"	14" x 3	14" x 5" x 2
S6 to S16	36" x 194	3"	14" x 3	14" x 5" x 2
S17 to S19	See Detail This Sheet	11"	10" x 1	15" x 9" x 10"

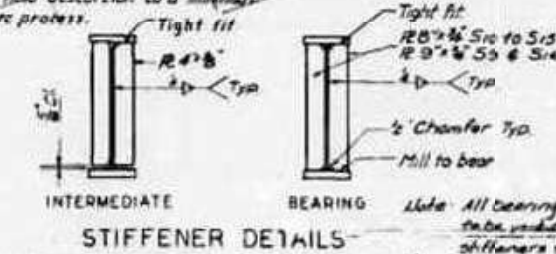


SHEAR CONNECTOR DETAILS
Shear connectors included in quantity of structural steel.
Welding Notes: See Special Provisions for Welding.
The contractor shall submit to the Engineer for his approval a welding procedure for the fabrication of all parts.
All welding shall be done in accordance with the "Standard Specifications for Welded Highway and Railway Bridges". The contractor shall provide the proper weld details as provided in paragraphs 221 or 220 (preference shall be given to detail as per paragraph 221) in accordance with the welding procedure and positions that are approved by the Engineer. Preference shall be given to flat position welding where feasible. In general all welded splices in webs and flanges shall be made before welding flanges to webs.
Stringer sections shall be assembled for position welding with adequate supports to maintain proper dimensions and alignments and to hold distortion to a minimum.
All welding shall be by the submerged arc process.



NOTE:
Electrodes conforming to either the E60XX or the E70XX series of Tentative Specifications for Mild Steel Arc-Welding Electrodes (AWS Designation A5.1; ASTM Designation A233) shall be used for A36 steel in thicknesses of 1/2 inch or less. Only E7018 low-hydrogen electrodes shall be used on thicknesses of 1/2 inch steel over 1/2 inch.

DESIGNED	G. F.
CHECKED	R. H. W.
DRAWN	T. L. L.
CHECKED	G. F. & J. T. L.

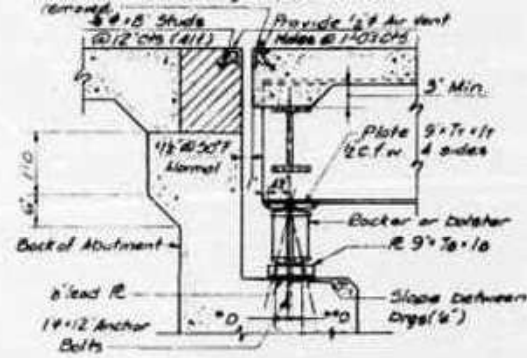


FRAMING PLAN & STEEL DETAILS
FAI 80 OVER RAMP AD
STA. 368+45.70
FAI ROUTE 80 SECTION 99-2
SCALE: 1/8" = 1'-0"
DATE: Nov. 30, 1961
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS

Revised: Add Electrode note for welding A36 Steel, Add note: Shear connectors included in quantity of Steel Steel.
1-25-61 Add note: All welding by submerged arc process. Add Flange splice detail.

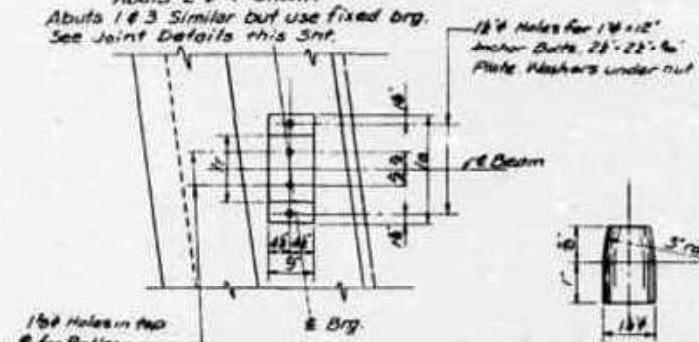
FOR INFORMATION ONLY

Angles shall be held securely in place, while pouring concrete with 5/8" bolts in 1/2" holes set on gage line of 12" Cts. All bolts shall be burned, sawed or clipped flush with back of angle after forms are removed.



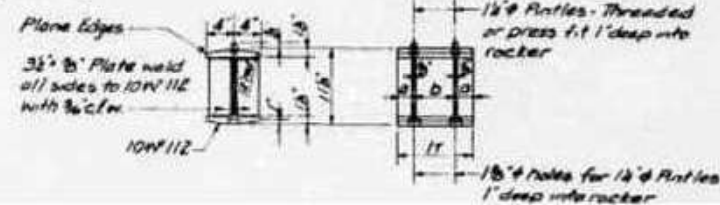
SECTION AT ABUTMENTS

Abuts 2 & 4 shown
Abuts 1 & 3 similar but use fixed brg. See Joint Details this Sht.



PLAN

1/2" Holes in top R for Pintles
Thread or press fit pintles into both Plate (Exp. Brg. only)



DETAIL OF PINTLE

Plane Edges
3/8\"/>

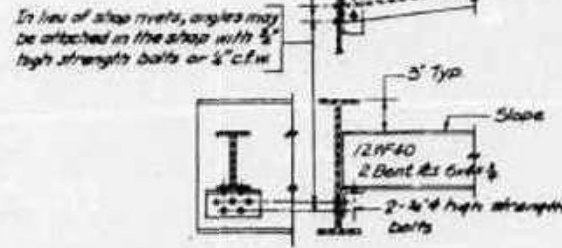
DETAIL OF EXPANSION BEARING



DETAIL OF FIXED BEARING

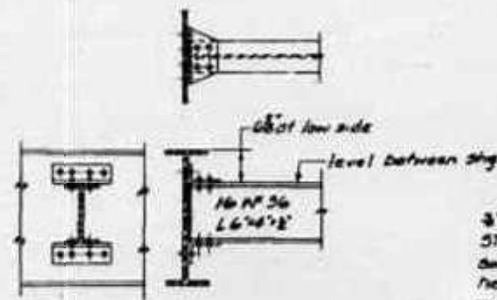


DESIGNED	T.L.L.
CHECKED	G.F. & J.T.L.
DRAWN	T.L.L.
CHECKED	G.F. & J.T.L.



END DIAPHRAGM
(For Heat-Bound Edging)

In lieu of strap rivets, angles may be attached in the shop with 5/8\"/>

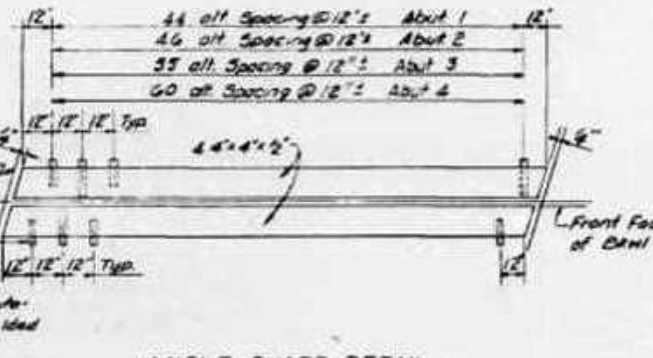


INTERMEDIATE DIAPHRAGM
(For Heat-Bound Edging)

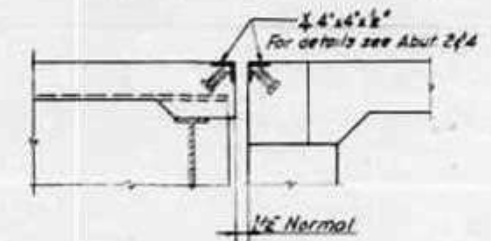
6\"/>

DIMENSIONS FOR BEARINGS

Stn.	Bearing	T ₁	T ₂	T ₃	T ₄	T ₅	T ₆	T ₇	T ₈	T ₉
51 #	Exp.	1'	1'	1'	1'	1'	1'	1'	1'	1'
52	Fix.	1'	1'	1'	1'	1'	1'	1'	1'	1'
52 to 57	Exp.	1'	1'	1'	1'	1'	1'	1'	1'	1'
57	Fix.	1'	1'	1'	1'	1'	1'	1'	1'	1'
59 #	Exp.	1'	1'	1'	1'	1'	1'	1'	1'	1'
516	Fix.	1'	1'	1'	1'	1'	1'	1'	1'	1'
510 to 515	Exp.	1'	1'	1'	1'	1'	1'	1'	1'	1'
515	Fix.	1'	1'	1'	1'	1'	1'	1'	1'	1'



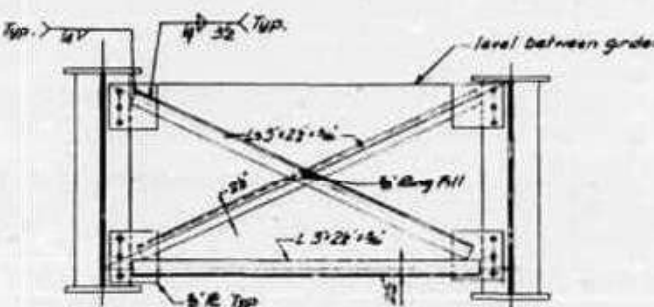
ANGLE GUARD DETAIL



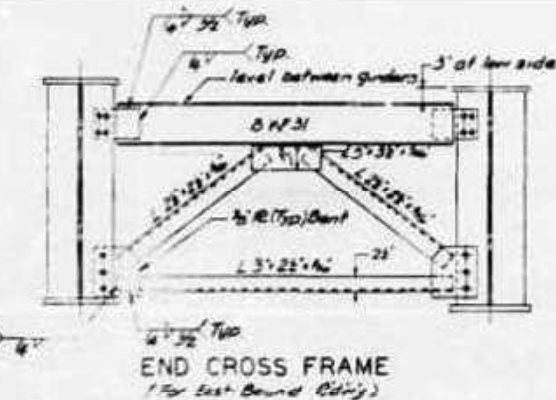
FIXED JOINT DETAILS
AT ABUTMENTS 1 & 3

Anchor bolts shall be grouted into drilled holes after beams are in place, or bolts of fixed abutments may be built into the masonry.

*D = 8\"/>



INTERMEDIATE CROSS FRAME
(For East-Bound Edging)



END CROSS FRAME
(For East-Bound Edging)

Notes
All field connections on welded Plate Girders are to be made with high strength 1/2\"/>

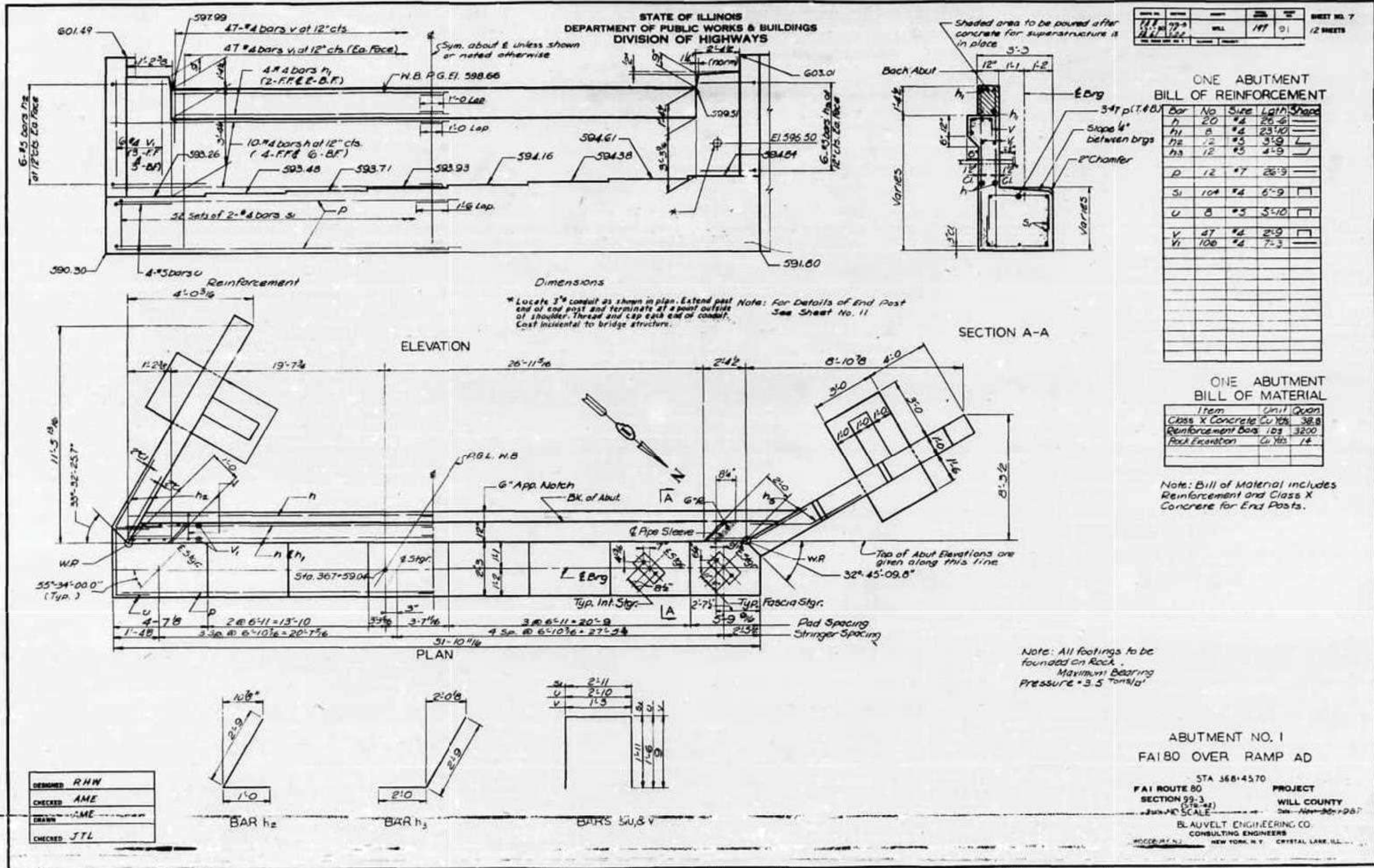
BEARING & DIAPHRAGM DETAILS
FAI 80 OVER RAMP AD

STA 368+45.70
PROJECT
WILL COUNTY
Date Nov 30, 1961

BLAUVELT ENGINEERING CO.
NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

MODEL: Default
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DATE	BY	CHKD	APPD	SHEET NO. 7
11-11-22	JTL	AME	RHW	12 SHEETS

ONE ABUTMENT BILL OF REINFORCEMENT

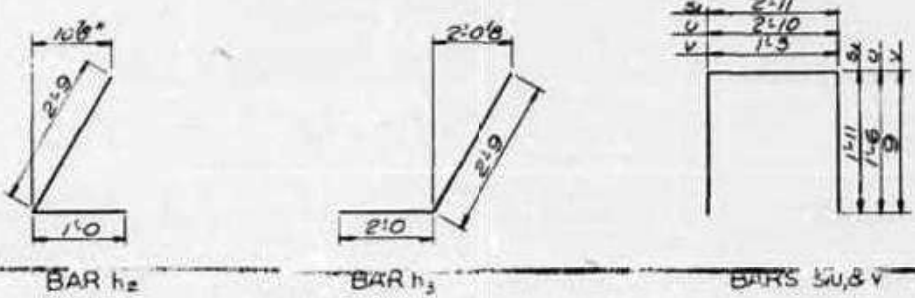
Bar	No	Size	Length	Shape
h	20	#4	26'-6"	
h1	8	#4	23'-10"	
h2	12	#5	3'-9"	
h3	12	#5	4'-9"	
p	12	#7	26'-9"	
s1	104	#4	6'-9"	
u	8	#5	5'-10"	
v	47	#4	2'-9"	
vi	108	#4	7'-3"	

ONE ABUTMENT BILL OF MATERIAL

Item	Unit	Quan
Class X Concrete	Cu Yds	38.8
Reinforcement Bars	Lbs	3200
Rock Excavation	Cu Yds	14

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

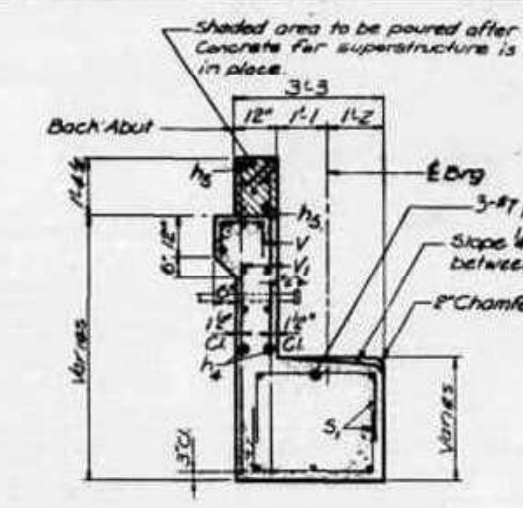
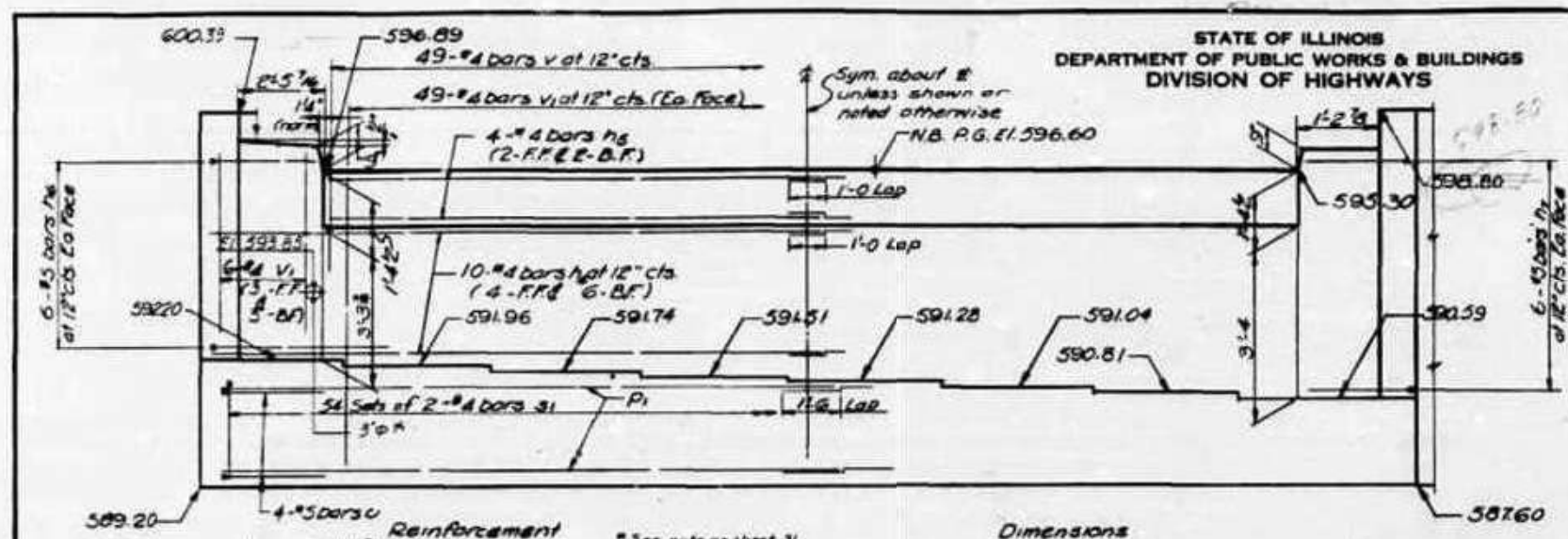
DESIGNED	RHW
CHECKED	AME
DRAWN	AME
CHECKED	JTL



FOR INFORMATION ONLY

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

DATE	BY	CHKD	APP'D	SHEET NO. 3
11/17/99	JVL	WLL	197	02
12/17/02				12 SHEETS



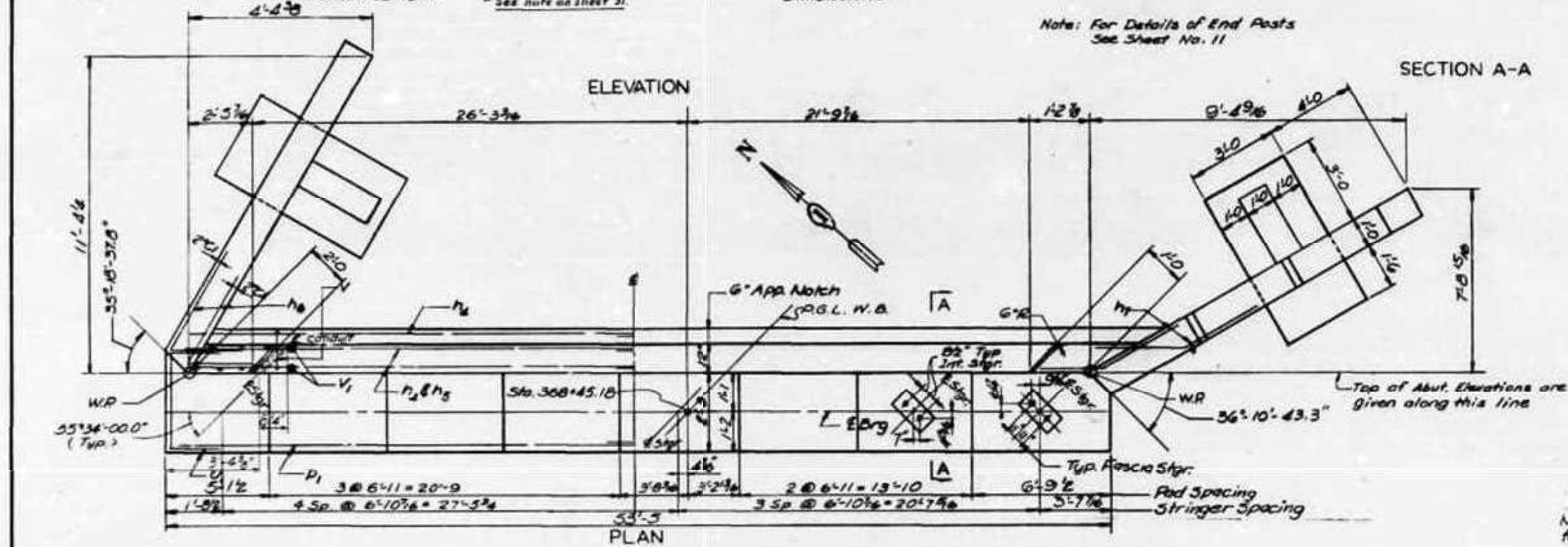
ONE ABUTMENT
BILL OF REINFORCEMENT

Bar No	Size	Length	Shape
h2	#4	27.0	
h3	#4	24.6	
h6	#5	4.9	L
h7	#5	3.9	L
P1	#7	27.6	
S1	#4	6.9	
U	#5	3.0	
V	#6	2.9	
V	#6	7.3	

ONE ABUTMENT
BILL OF MATERIAL

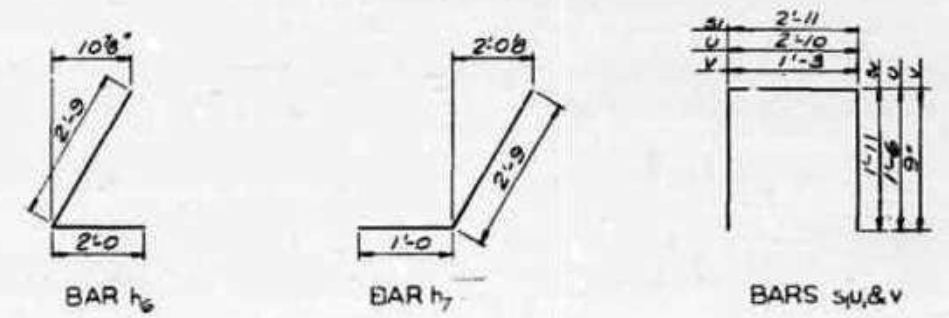
Item	Unit	Quan
Class X Concrete	Cu Yds	381
Reinforcement Bars	Lbs	3270
Rock Excavation	Cu Yds	21

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



Note: All footings to be founded on Rock. Maximum Bearing Pressure = 3.5 Tons/ft²

DESIGNED	RHW
CHECKED	AME
DRAWN	AME
CHECKED	JTL



ABUTMENT NO. 2
FA180 OVER RAMP AD

STA 368+45.70
PROJECT
WILL COUNTY
DATE: Nov. 30, 1961
JVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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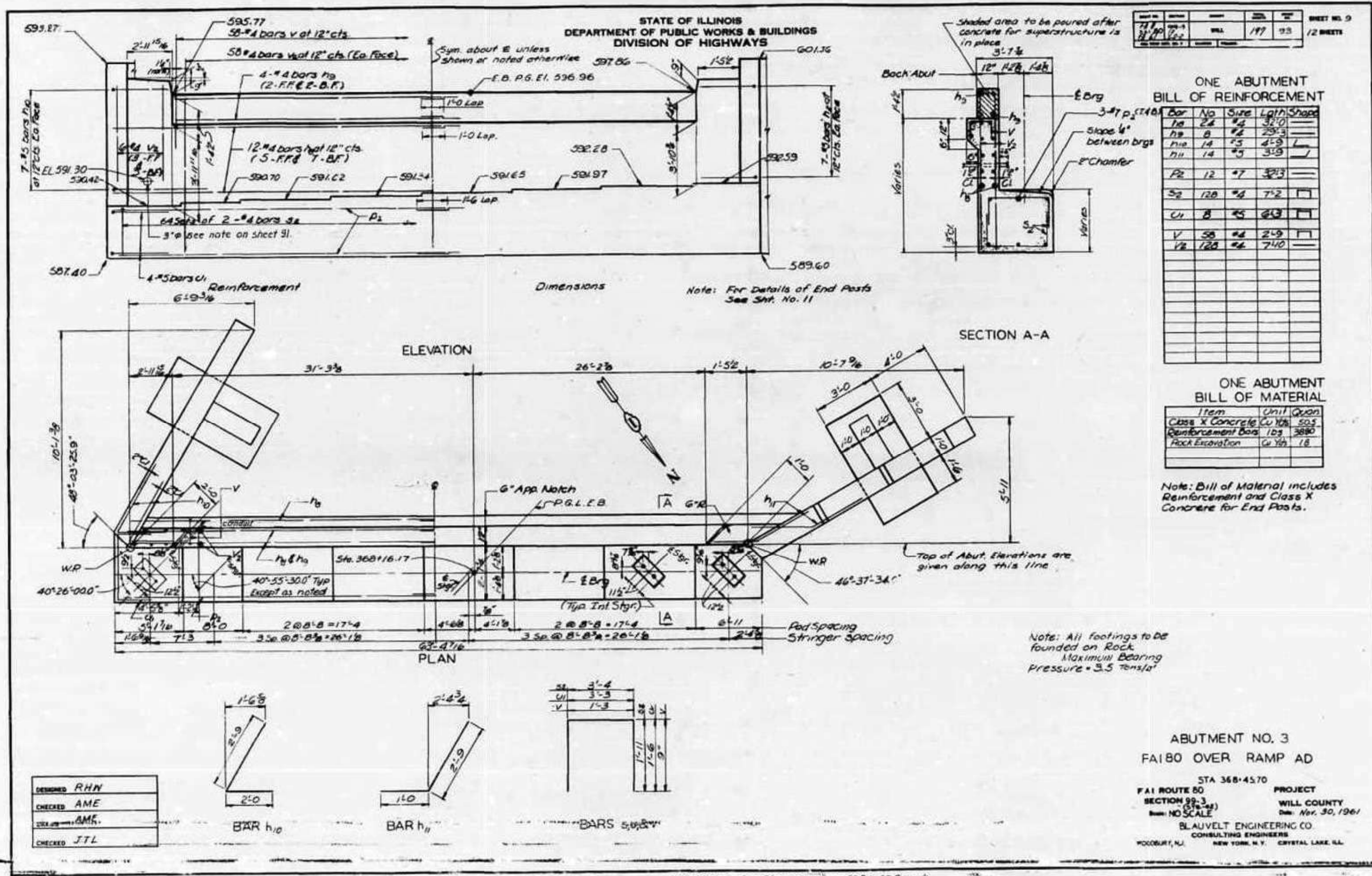
USER NAME	= USCP702533	DESIGNED	-	REVISED	-
PLOT SCALE	= 7:11,99616 "/in.	DRAWN	-	REVISED	-
PLOT DATE	= 4/22/2025	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SHEET 26 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	846
			CONTRACT NO. 62R22	
		ILLINOIS FED. AID PROJECT		

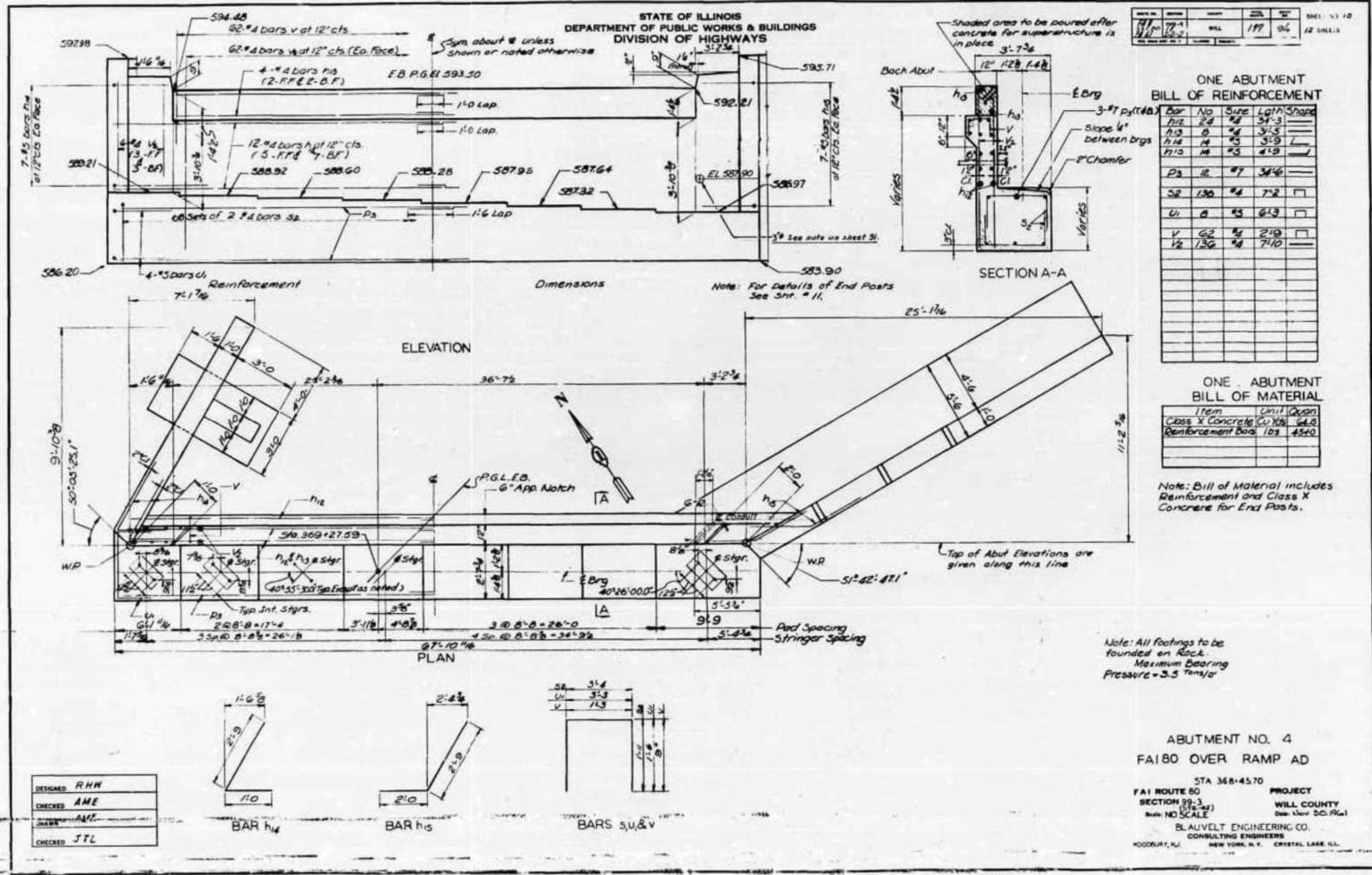
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FOR INFORMATION ONLY

	USER NAME = USCP702533 DESIGNED - RHN CHECKED - AME DATE - 4/22/2025	DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS	SHEET 27 OF 62 SHEETS	F.A.I. RTE. 80 SECTION FAI 80 21 INTERCHANGE COUNTY WILL TOTAL SHEETS 1209 SHEET NO. 847 CONTRACT NO. 62R22 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 7:11.99616'' / in. PLOT DATE = 4/22/2025						
	WSP USA Inc. 30 N. LASALLE STREET SUITE 400 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884						

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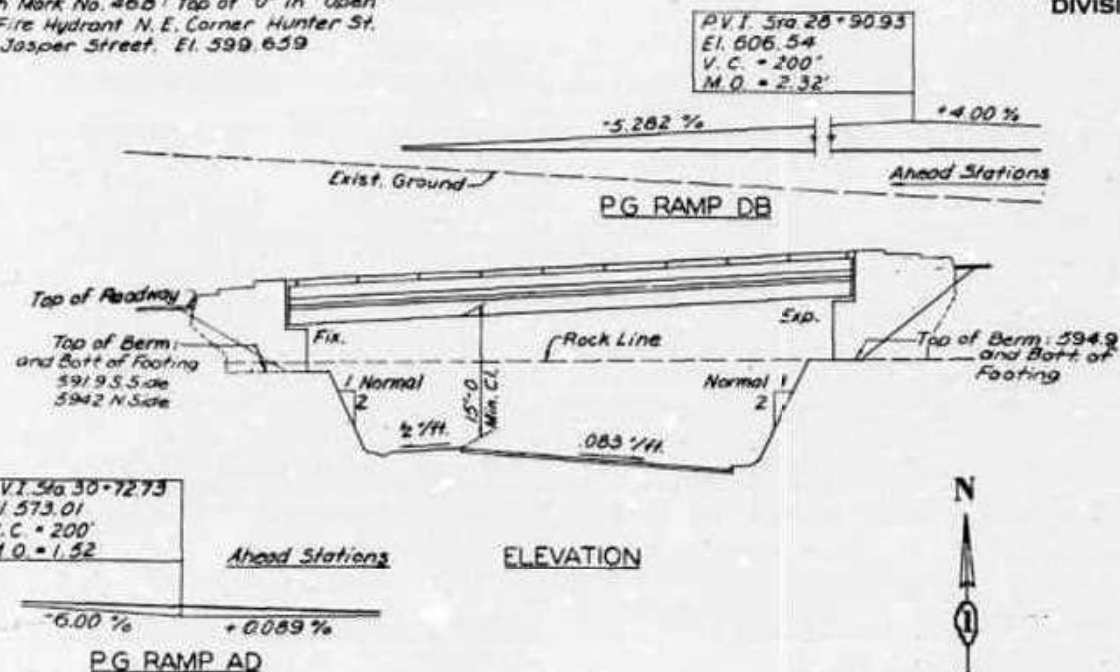
FOR INFORMATION ONLY

11'16" 69 J.M.J. Rev. Class X Con. from 69-4 to 69B only.

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

DATE	BY	CHECKED	SCALE	SHEET NO.
11/17/64	J.T.L.	J.T.L.	1/4" = 1'-0"	85

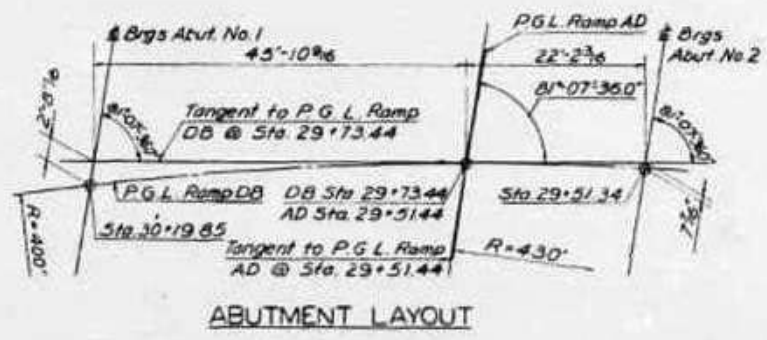
Bench Mark No. 468: Top of "0" in "Open"
Top Fire Hydrant N.E. Corner Hunter St.
and Jasper Street, El. 599.659



STATION 29+73.44
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 99-3HB-3
F.A. PROJ. 1-80-4(22)
LOADING HS-20
See Standard 2113-1
LETTERING FOR NAME PLATE

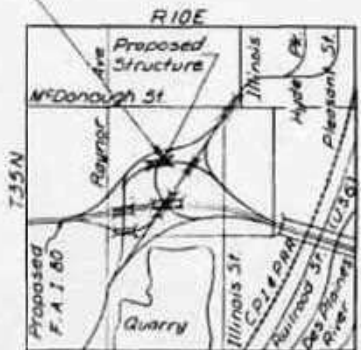
DESIGN STRESSES
Reinforced Concrete:
f_c = 3,500 p.s.i.
f_s = 20,000 p.s.i.
n = 10
f_c = 1,400 p.s.i. (Except Footings)
f_c = 1,000 p.s.i. (Footings)
v_c = 90 p.s.i. (Except Footings)
v_c = 75 p.s.i. (Footings)
Structural Steel:
f_s = 20,000 p.s.i.
Maximum Bearing Pressure = 4 Tons/S.F.
Loading: HS 20 - 44

GENERAL NOTES
STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A36
RIVETS SHALL BE 3/4" # WITH 13/16" # OPEN HOLES UNLESS NOTED.
CLASS I CONCRETE SHALL BE USED THROUGHOUT. GRADE APPROPRIATE USED IN PARAPETS AND END FUTES SHALL BE FREE OF CURT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.
THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.
ALL WELDING SHALL COMPLY WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, OF THE AMERICAN WELDING SOCIETY.
ALL ROCKERS, BOLSTERS, BEARING PLATES, LEAD PLATES, PISTLES, 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.
ANCHOR BOLTS SHALL BE SET BEFORE CONNECTING DIAPHRAGMS OVER SUPPORT. SPACE REINFORCING TO NEED ANCHOR BOLTS.
EXPANSION JOINTS AND PLATES 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 SURFACES OF EXPANSION JOINTS INACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT. THE 1/4" # WELDED STUDS SHALL NOT BE PAINTED.
Permanent forms will not be permitted in forming the concrete floor.
Note: This route has been selected as a 15'-0" vertical clearance route.



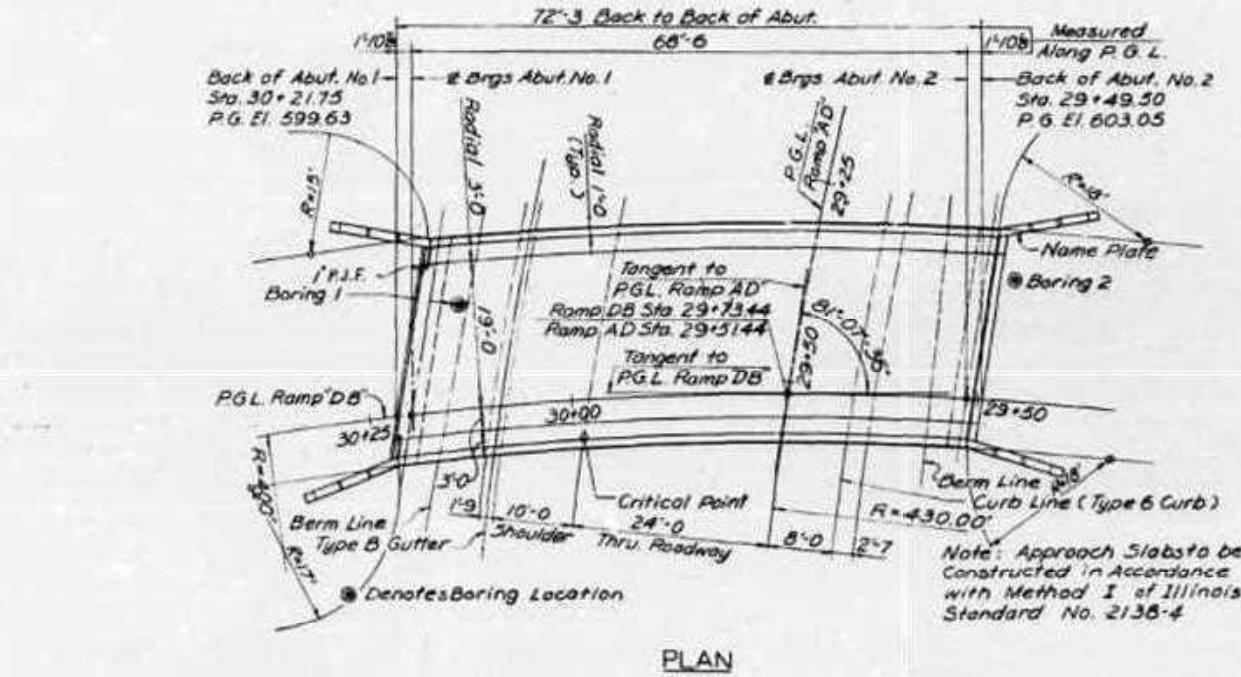
TOTAL BILL OF MATERIALS
Sec 99-3(Str-3)

Item	Unit	Super	Sub	Total
Class X Concrete	Cu Yd	862	575	1237
Forming - Erecting Structural Steel	Lb	63900		63900
Reinforcement Bars	Lb	14310	4300	18,610
Name Plates	Each	1		1
Aluminum Handrail	Lin Ft	140		140
Rock Excavation	Cu Yd		6	6
Bridge Seat Sealant	L.S.		6.1	6.1
Protective Coat	Sq Yd	253		253



LOCATION PLAN

Note: Excavation for portions of structure in the embankments shall not be classified.



DESIGNED	R D L
CHECKED	J T L
DRAWN	J P N
CHECKED	J T L

GENERAL PLAN & ELEVATION
RAMP DB OVER RAMP AD
RAMP DB STA 29+73.44
F.A.I. ROUTE 80 PROJECT 1-80-4(22)-33
SECTION 99-3HB-3 WILL COUNTY
DATE Nov 30 1964

Prepared and Recommended by
Blauvelt Engineering Co.
Rene H. Wengert Structural Engineer #81-2271

REV. 12-19-62 Post. Coat - 253 Sq Yd S.F.M.
REV. 2-16-63 Change Sect 99-3B Not 99-3B-1 103

FOR INFORMATION ONLY

WSP USA Inc.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	REVISION	-	REVISION	-
PLOT SCALE	= 7:11,99616 "/in.	CHECKED	-	REVISION	-
PLOT DATE	= 4/22/2025	DATE	-	REVISION	-

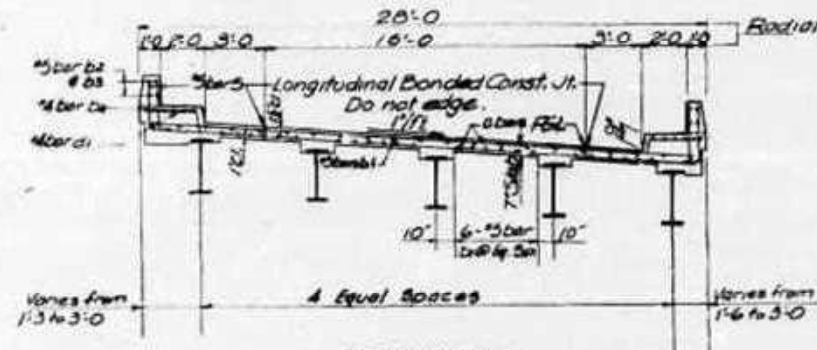
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

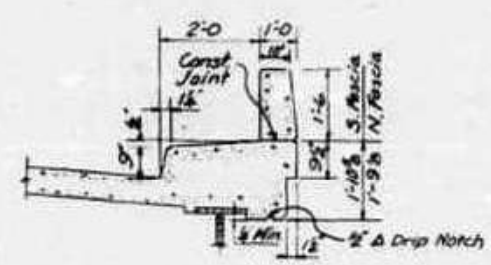
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	850
			CONTRACT NO. 62R22	

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

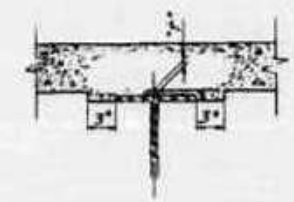
DATE	NO.	BY	SCALE	SHEET NO.
11/17/22	197	WLL	1/8"	28
PROJECT				TOTAL SHEETS
FAI ROUTE 80				8 SHEETS



SECTION A-A

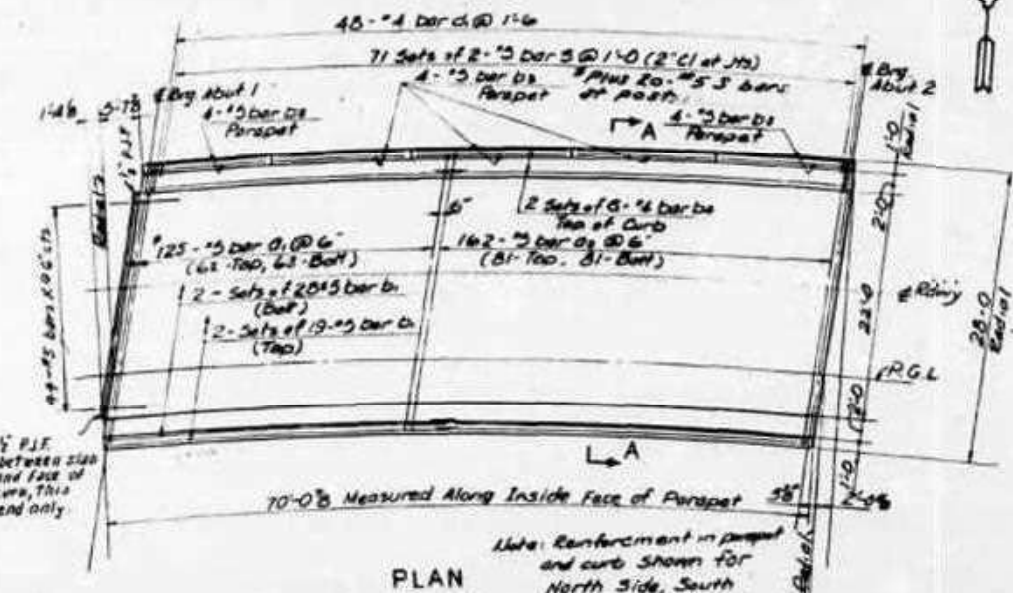


CURB DETAIL



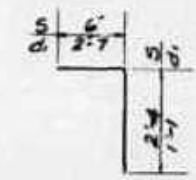
METHOD OF DETERMINING FILLET HEIGHT 't'

After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on D.L. Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals fillet heights above top of beams.



PLAN

Place 2#5 bars on inside face (road side) of each rail post



BARS s & d

BILL OF REINFORCEMENT

Bar No.	Size	Length	Shape
01	125	25	28'-0"
02	162	25	27'-7"
03	34	25	35'-6"
04	16	25	12'-0"
05	24	25	14'-9"
06	24	25	35'-6"
d1	96	24	5'-8"
s	324	25	2'-0"
A	44	25	4'-0"

BILL OF MATERIALS

Class	Concrete	Cu Yds	CG-2
Reinforcement	Bar	Lbs	14,310
Structural Steel	Lbs		63,900

* Structural Steel includes weight of rockers, bolsters, bearing plates, lead plates, pintles, and anchor bolts.
Estimated Wt. = 2520

ELEVATIONS - TOP OF SLAB** (Elevations are not adjusted for dead load deflections)
(See sheet 3 for locations of points)

Station	1	2	3	4	5	6	7	8
A	601.07	602.12	602.59	603.09	603.56	604.01	604.44	604.78
B	601.11	601.57	602.05	602.52	603.03	603.49	603.92	604.27
C	600.55	601.01	601.50	602.01	602.50	602.96	603.40	603.75
D	599.99	600.48	600.98	601.46	601.96	602.44	602.88	603.24
E	600.45	600.90	601.30	601.72	602.16	602.61	603.06	603.42

** Where curb is over stringer, Elevation shown is that of the projection of the top of slab along its cross slope

DESIGNED	AME
CHECKED	G.F.
DRAWN	ME
CHECKED	G.F.

SLAB PLAN & SECTION
RAMP DB OVER RAMP AD

RAMP DB STA. 29+73.44
F A I ROUTE 80 PROJECT
SECTION 33-5 WILL COUNTY
SCALE: 1" = 30' (PLAN)
SCALE: 1" = 30' (SECTION)

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODHUT, N.Y. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 31 OF 62 SHEETS

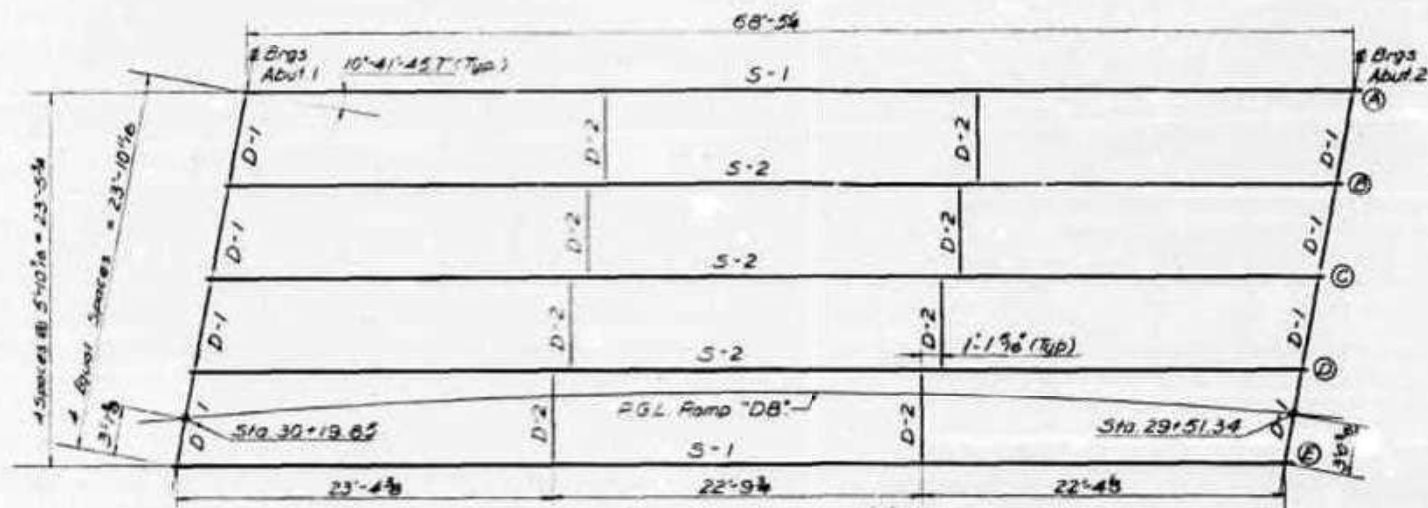
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	851
				CONTRACT NO. 62R22

ILLINOIS FED. AID PROJECT

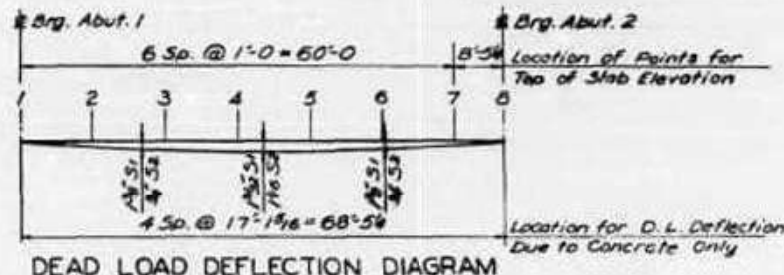
WSP USA Inc.
30 N. LASALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	DRAWN	-	REVISED	-
PLOT SCALE	= 7:11.99616 "/in.	CHECKED	-	REVISED	-
PLOT DATE	= 4/22/2025	DATE	-	REVISED	-

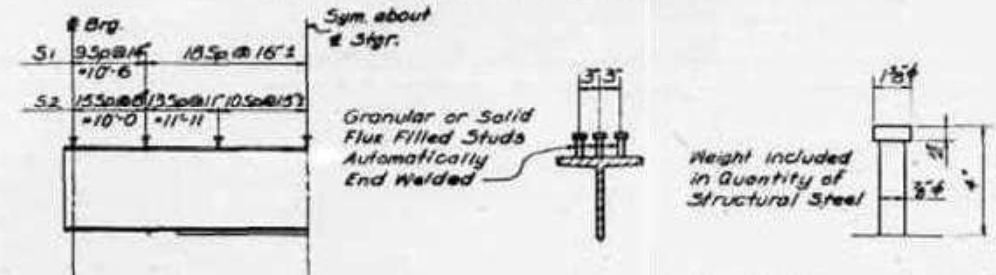
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FRAMING PLAN
Note:
All Stg's 33W130
All Dimensions Measured in a Horizontal Plane

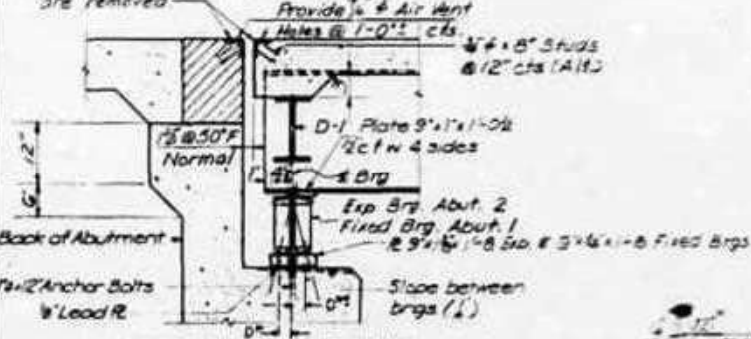


DEAD LOAD DEFLECTION DIAGRAM



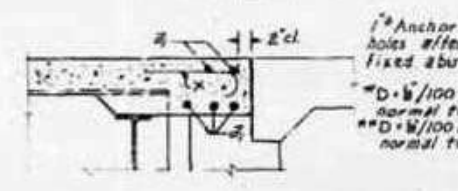
SHEAR CONNECTOR SPACING SHEAR CONNECTOR DETAILS

*Angles shall be held securely in place while pouring concrete with 3/8" bolts in 3/8" holes set on gage line at 12" cts. All bolts shall be burned, sawed or clipped flush with back of angles after forms are removed.



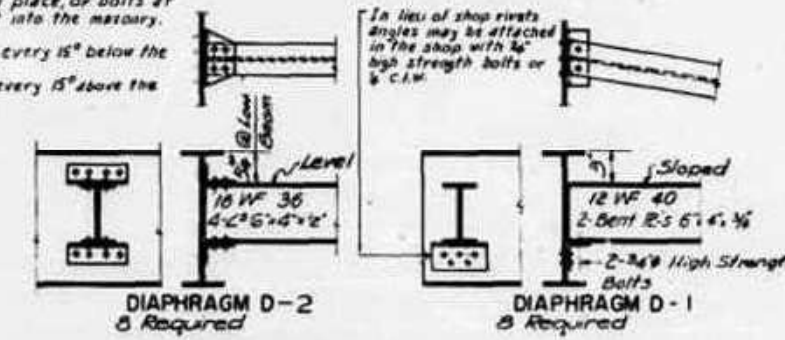
SECTION AT ABUTMENTS

Abut. 2 Shown.
Abut. 1 similar but use fixed bearing. See joint details this sheet.



FIXED JOINT DETAILS AT ABUT. 1

NOTES
*Anchor bolts to be grouted into drilled holes after beams are in place, or bolts at fixed abut. may be built into the masonry.
**D=1/100 ft of exp. for every 15° below the normal temp. of 50°F.
***D=1/100 ft of exp. for every 15° above the normal temp. of 50°F.



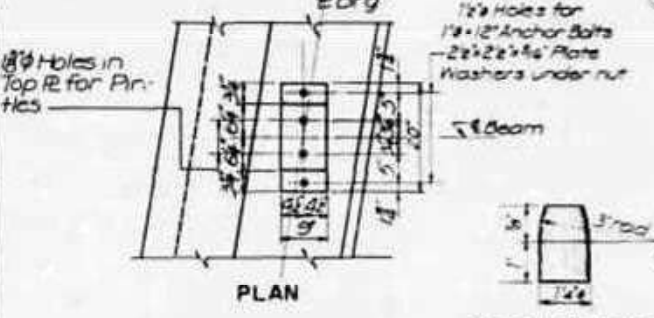
DIAPHRAGM D-2 8 Required
DIAPHRAGM D-1 8 Required

TOP OF BEAM ELEVATION

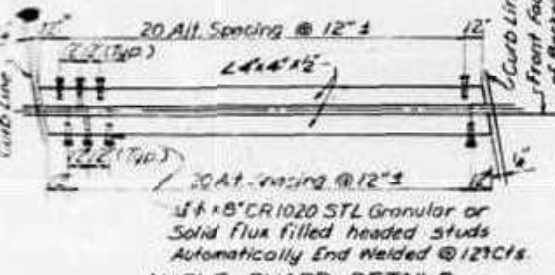
Stg.	Pt.	# Brg. Abut. 1	# Brg. Abut. 2
A		601.04	604.15
B		600.48	603.64
C		599.92	603.12
D		599.36	602.61
E		598.80	602.10

These elevations are at top of top flange of stringers exclusive of deflections.

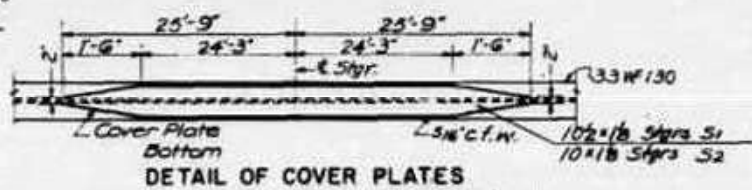
Note: For top of slab elevations see sht. # 2
Cost of Hot Poured Seal, Premolded Joint Filler and Water Stop shall be incidental to the Contract.



PLAN

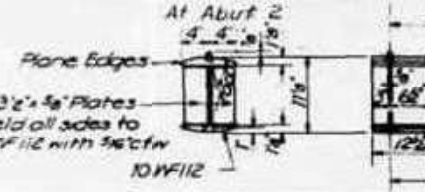


ANGLE GUARD DETAILS

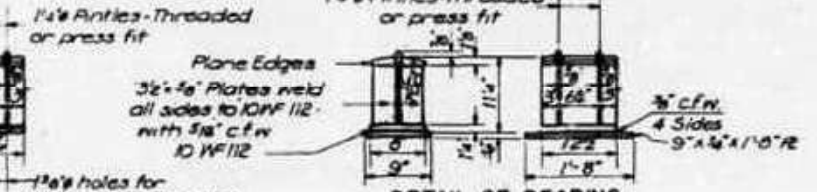


DETAIL OF COVER PLATES

DETAIL OF PINTLE



DETAIL OF BEARING AT ABUT. 2



DETAIL OF BEARING AT ABUT. 1

DESIGNED	J.P.H.
CHECKED	L.D.
DRAWN	J.P.H.
CHECKED	G.F.

FRAMING PLAN & STEEL DETAILS

RAMP DB OVER RAMP AD

RAMP DB STA. 29+73.44

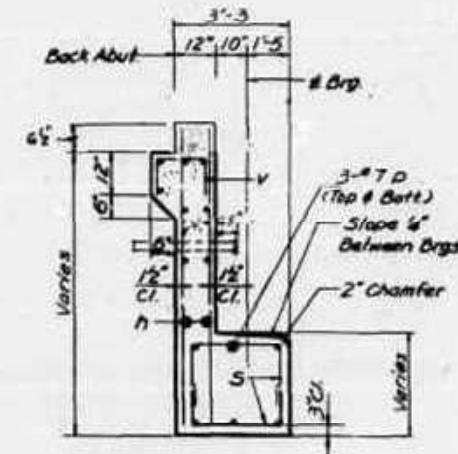
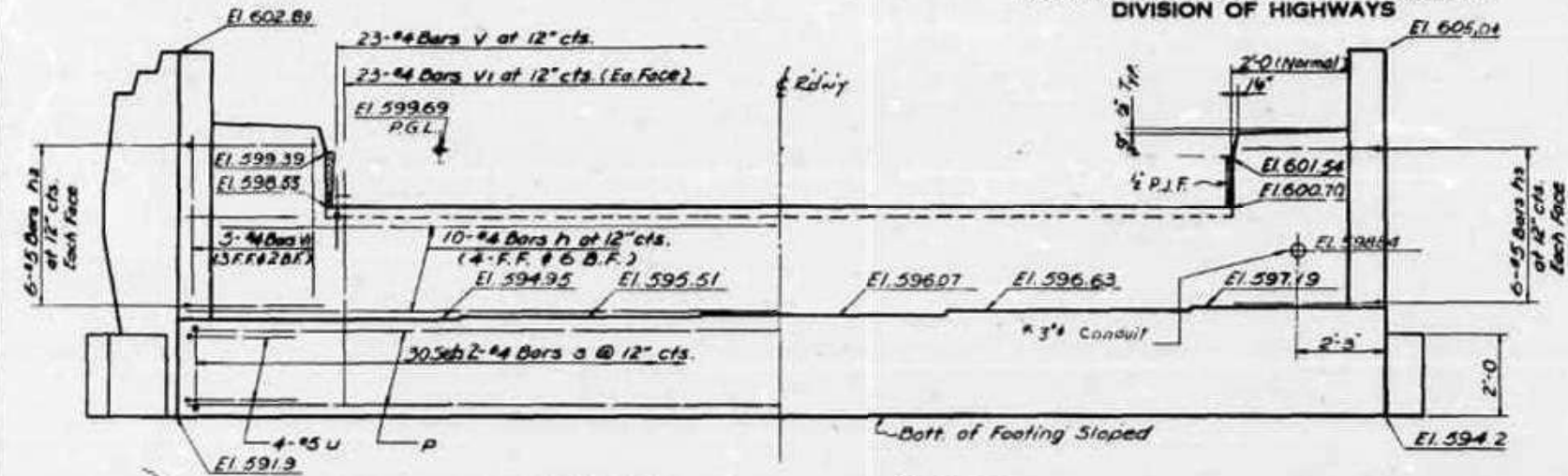
F.A.I. ROUTE 80 SECTION 80-3 PROJECT WILL COUNTY

BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
ROXBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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

DATE	BY	CHECKED	SCALE	SHEET NO. 5
11/17/64	J.M.J.	G.F.	1/8" = 1'-0"	8 SHEETS



BILL OF REINFORCEMENT

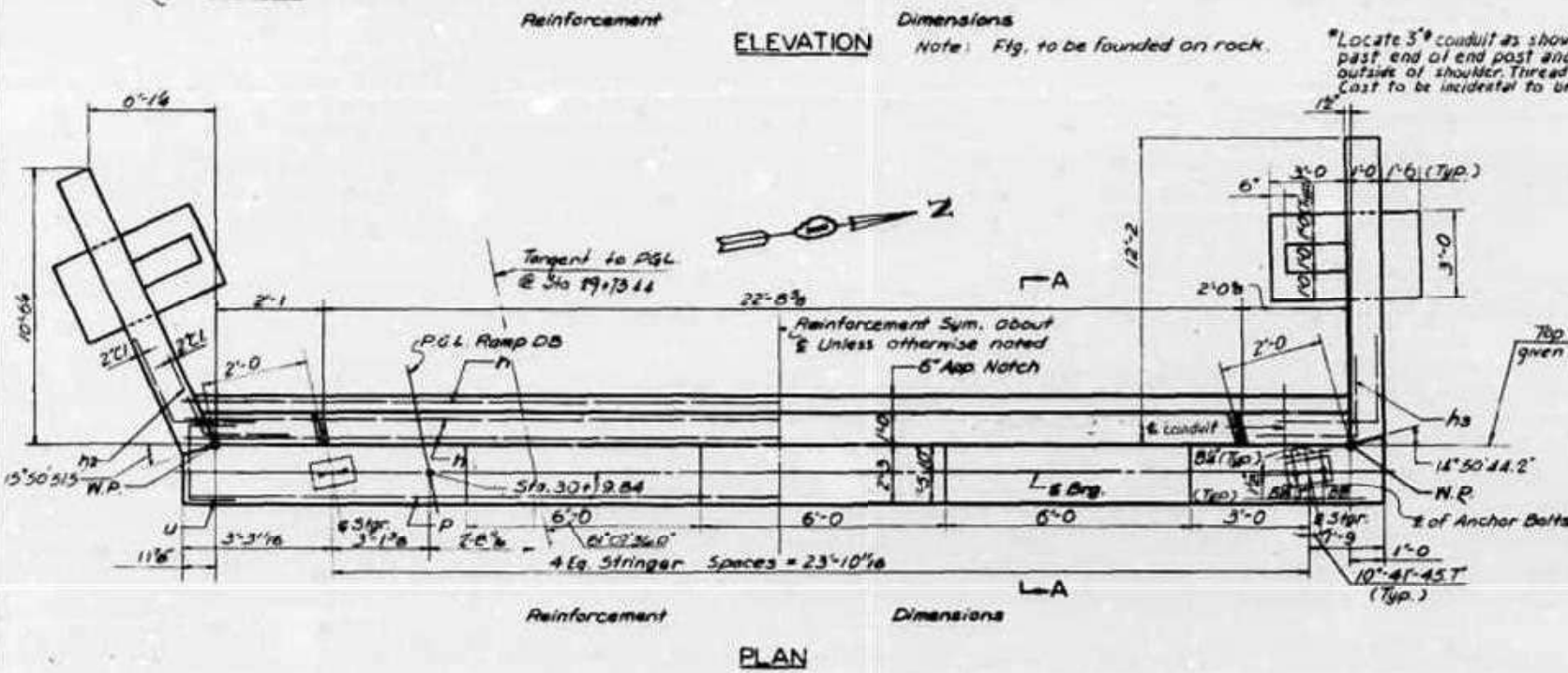
Bar	No	Size	Length	Shape
h	10	#4	28'-7"	—
h2	12	#5	3'-0"	—
h3	12	#5	5'-0"	—
s	60	#4	7'-0"	□
v	23	#4	2'-9"	□
vi	36	#4	6'-0"	—
p	6	#7	28'-7"	—
u	8	#5	5'-11"	□

BILL OF MATERIAL

Item	Unit	Quan
Class X Concrete	Cu Yds	24
Reinforcement Bars	Lbs	2050
Rock Excavation	Cu Yds	5

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

Note: For End Post Details See Sht. # 7 Footings shall be founded on sound rock.



SECTION A-A

BAR h2 & h3

BARS u v & s

DESIGNED	J. J. H.
CHECKED	G. F.
DATE	11/17/64
CHECKED	G. F.

ABUTMENT NO. 1
RAMP DB OVER RAMP AD
RAMP DB STA. 29+73.44
F.A.I. ROUTE 40 SECTION 99-3 (Sta. 3)
PROJECT WILL COUNTY
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

11-17-64 J.M.J. Rev. class & cont. from 25.4 to 26.1, Rein bars from 2150 to 2050 lbs.

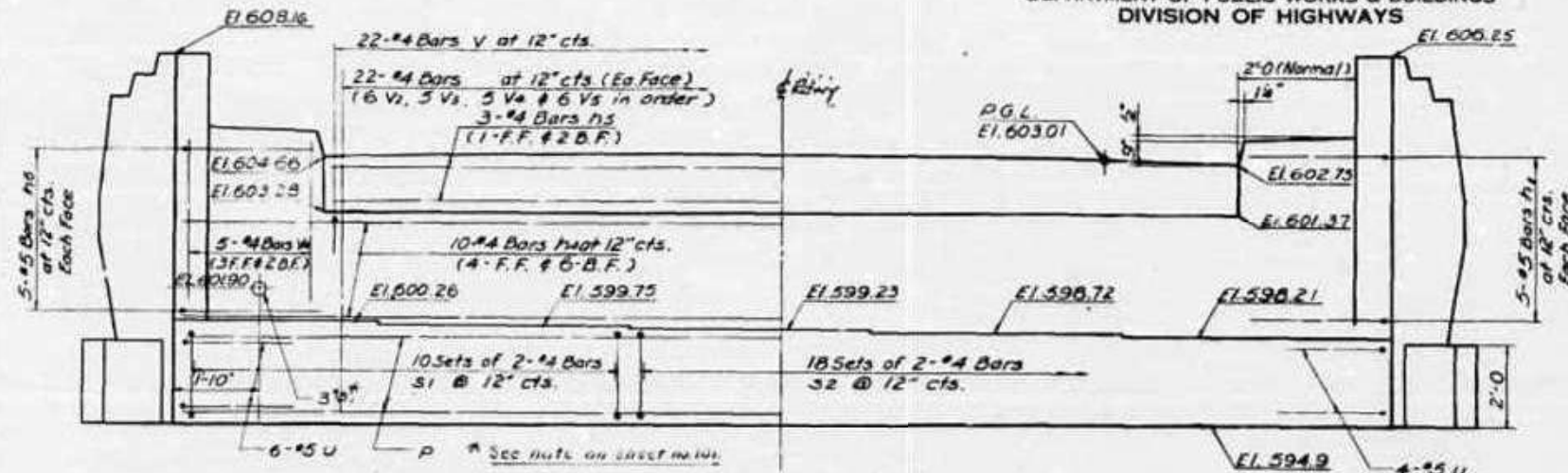
FOR INFORMATION ONLY

Model: D:\dwg\...
 File Name: p:\transys\comp\p1\hatched\Documents\projects_2013\8-C401\40118002703-WSP\CAD\B2022-INT-1-Center\Struct\Structural\Existing Bridge Plans\0900186-62R22-5-18-19-23.dwg

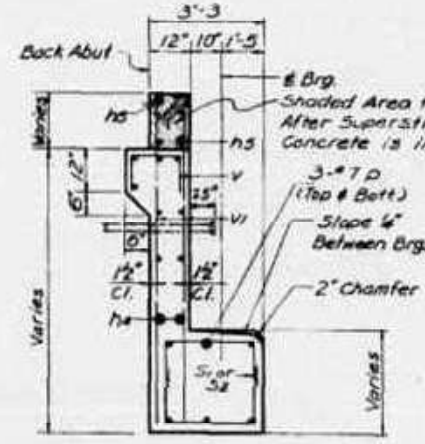
	USER NAME = USCP702533 PLOT SCALE = 7:11,99616 "/>	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS	SHEET 33 OF 62 SHEETS	F.A.I. RTE. 80 SECTION FAI 80 21 INTERCHANGE	COUNTY WILL PROJECT WILL COUNTY	TOTAL SHEETS 1209 SHEET NO. 853
	PLOT DATE = 4/22/2025	REVISED -	CONTRACT NO. 62R22				ILLINOIS FED. AID PROJECT		

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

DATE	BY	CHECKED	SCALE	SHEET NO.
11/10/22	JJ	WLL	1/2"	8
				8 SHEETS



ELEVATION
Reinforcement Dimensions
Note: Abut. to be founded on rock



SECTION A-A

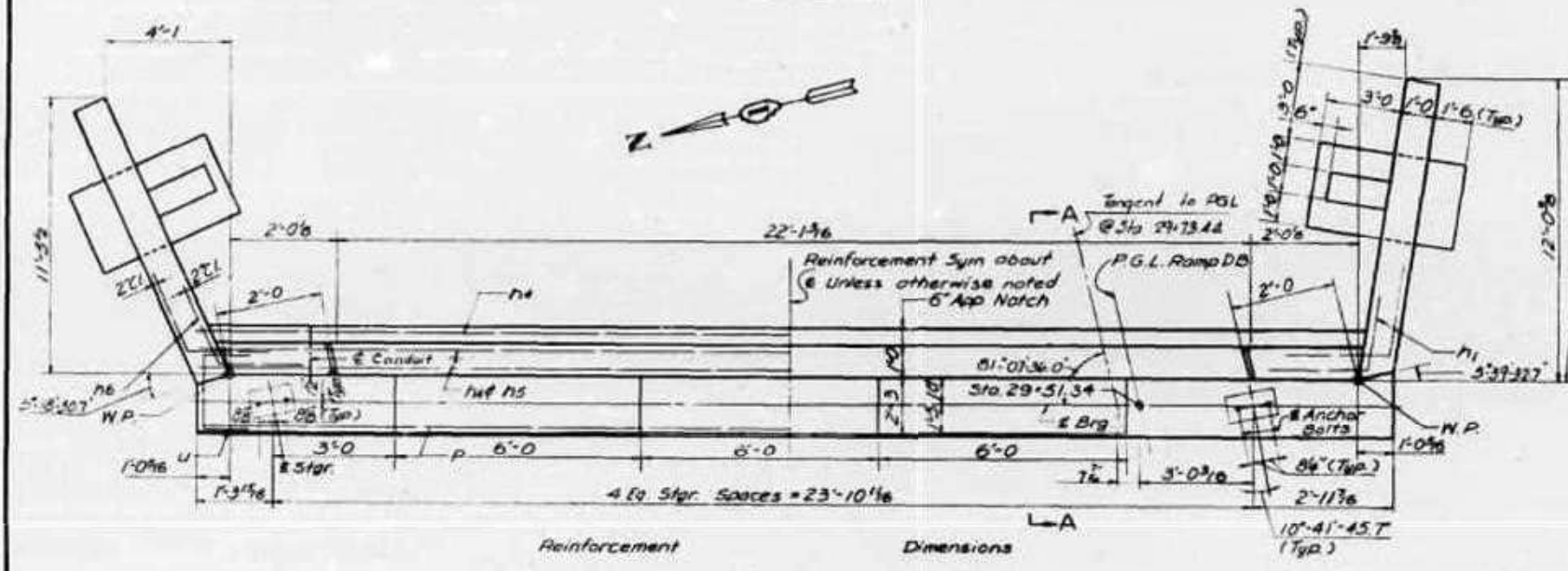
BILL OF REINFORCEMENT

Bar No.	Size	Length	Shape
h5	#4	27'-8"	—
h6	#4	21'-6"	—
h6	#5	5'-0"	—
h1	#5	5'-0"	—
P1	#7	27'-8"	—
S1	#4	9'-2"	□
S2	#4	8'-2"	□
U	#5	5'-11"	□
V2	#4	9'-0"	—
V3	#4	8'-6"	—
V4	#4	8'-0"	—
V5	#4	7'-6"	—
V	#4	2'-9"	□

BILL OF MATERIAL

Item	Unit	Quan
Class X Concrete	Cu Yds	31.4
Reinforcement Bars	Lbs	2250
Rock Excavation	Cu Yds	1

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



PLAN
Reinforcement Dimensions

BAR h5 & h1

h5	3'-0"
h1	3'-0"
U	2'-11"
V	1'-3"

BAR S1, S2, U & V

Note: For End Post Details see sh. #7 Footings shall be founded on sound rock.

DESIGNED	J. J. H.
CHECKED	G. F.
DRAWN	J. J. H.
CHECKED	G. F.

ABUTMENT NO. 2
RAMP DB OVER RAMP AD
RAMP DB STA. 29+73.44
FAI ROUTE 80 PROJECT
SECTION 99-3 (SPR 3) WILL COUNTY
BLAUVELT ENGINEERING CO
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

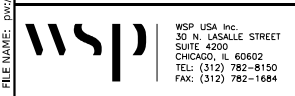
EXISTING BRIDGE PLANS

SHEET 34 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	854
				CONTRACT NO. 62R22

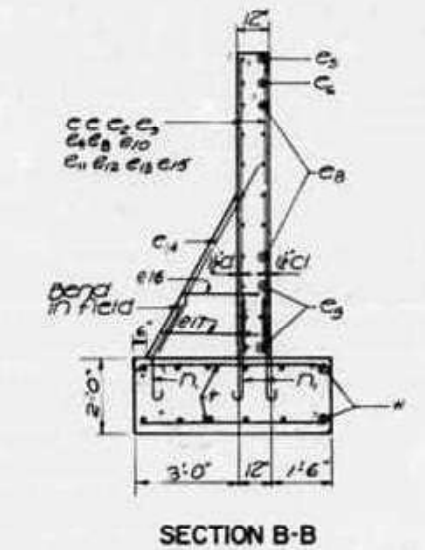
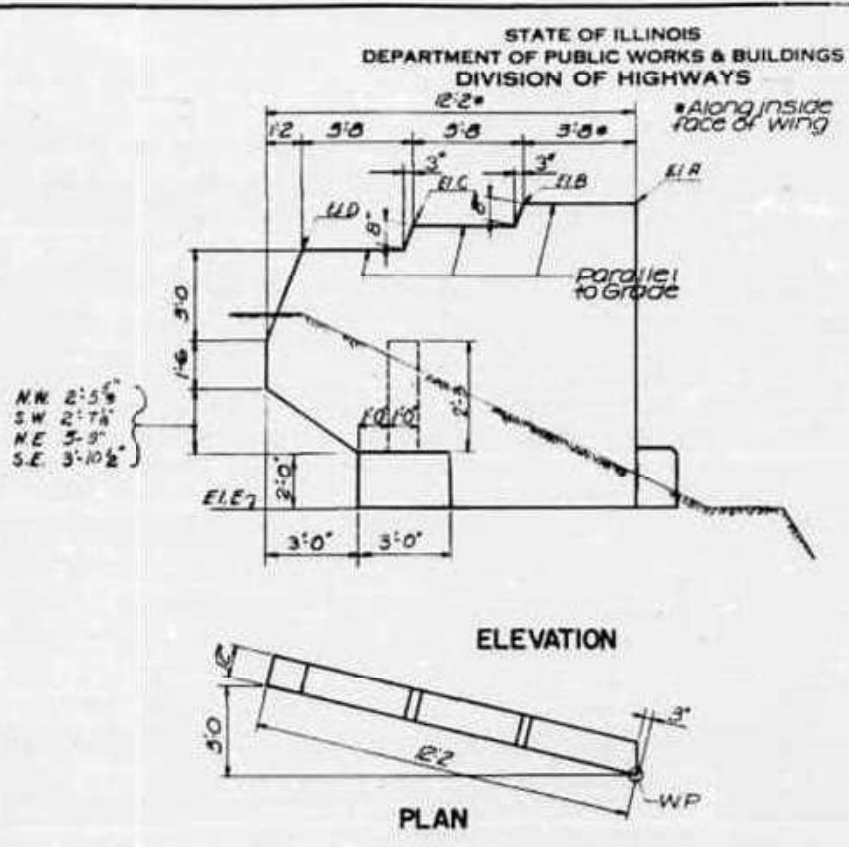
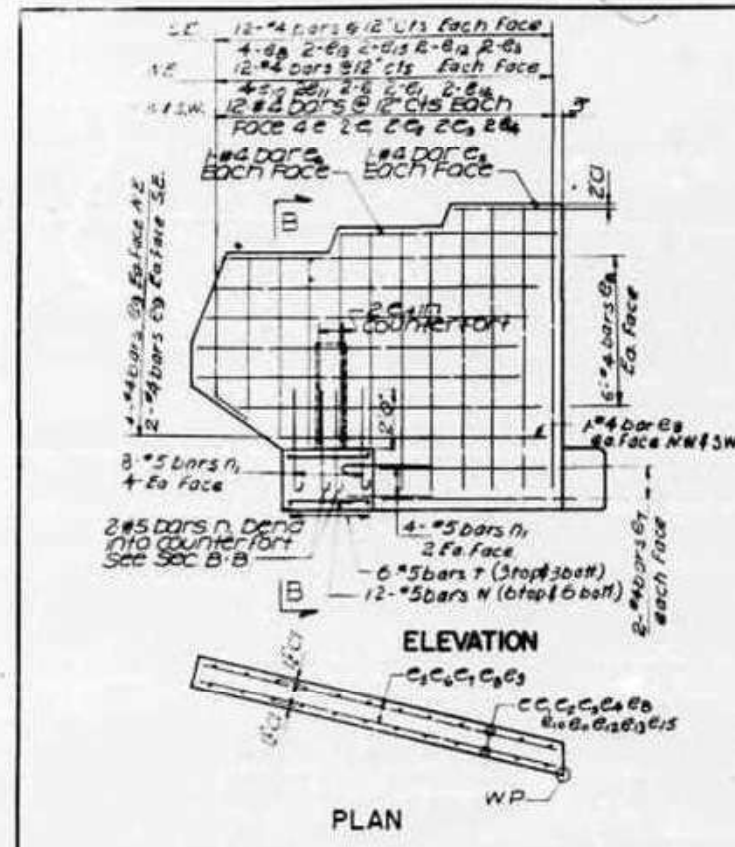
ILLINOIS FED. AID PROJECT

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WSP USA Inc.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USCP702533	DESIGNED -	REVISED -
PLOT SCALE = 7:11.99616"/in.	DRAWN -	REVISED -
PLOT DATE = 4/22/2025	CHECKED -	REVISED -
	DATE -	REVISED -



**FOUR END POSTS
BILL OF MATERIAL**

Bar No	Size	Length	Shape
C1	2.0	10.0	—
C2	1.6	9.3	—
C3	1.6	7.3	—
C4	1.6	6.3	—
C5	1.6	5.0	—
C6	1.6	3.4	—
C7	1.6	7.0	—
C8	1.6	5.6	—
C9	2.0	10.8	—
C10	1.6	8.10	—
C11	1.6	12.6	—
C12	1.6	12.0	—
E1	4	12.0	—
E2	4	7.6	—
E3	4	10.3	—
E4	8	4.3	—
E5	4	8.3	—
E6	4	3.6	—
E7	4	3.6	—
n1	5.0	4.0	—
n2	4.8	2.6	—

Reinforcement Bars

# Abut. 1 (2 End Posts)	Lbs	790
# Abut. 2 (2 End Posts)	Lbs	900

Class & Concrete

# Abut. 1 (2 End Posts)	Cu Yds	10.2
# Abut. 2 (2 End Posts)	Cu Yds	12.0

Notes: Reinf. includes Fly Steel.
 * included in quantity on sheet #5
 * included in quantity on sheet #6

END POST ELEVATIONS

End Post	Abut. No. 1	Abut. No. 2
	N.W.	S.E.
A	608.04	608.16
B	608.84	608.28
C	609.02	607.72
D	607.17	607.15
E	594.2	594.3

DESIGNED	G F
CHECKED	JPM
DRAWN	SFF & GF
CHECKED	JPM

ABUTMENT DETAILS
 RAMP DB OVER RAMP AD
 RAMP DB STA. 29+73.44
 F A I ROUTE 80 PROJECT
 SECTION 99-3 (Str. 3) WILL COUNTY
 Scale: NO SCALE Date: Jan 30, 1961
 CLAUVELT ENGINEERS CO.
 CONSULTING ENGINEERS
 WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 35 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	855
CONTRACT NO. 62R22				

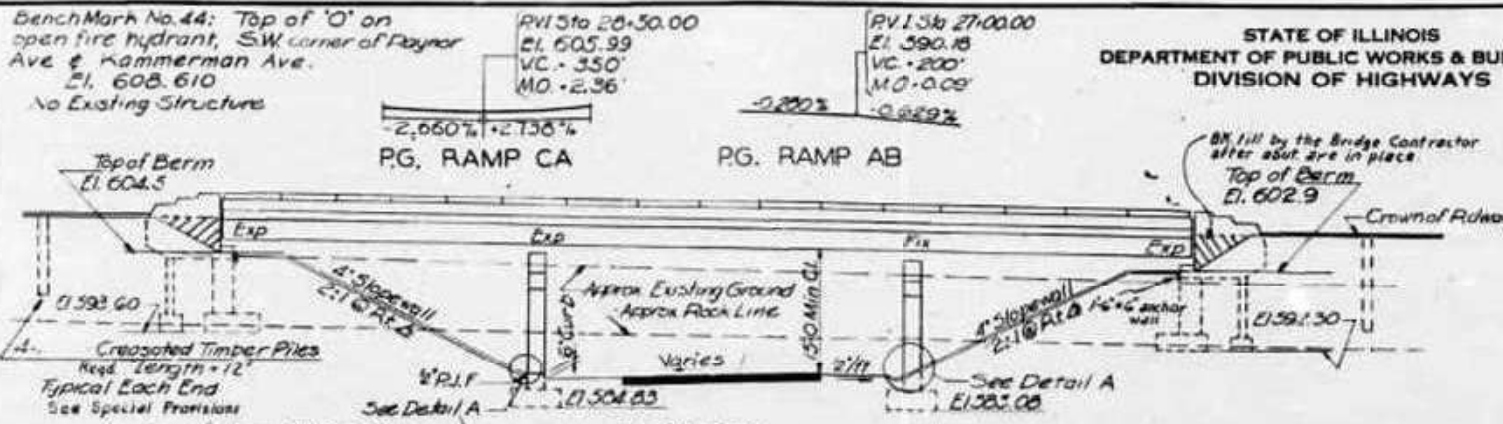
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wsp
 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 400
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USCP702533	DESIGNED -	REVISED -
PLOT SCALE = 7:11,99616 "/>		

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

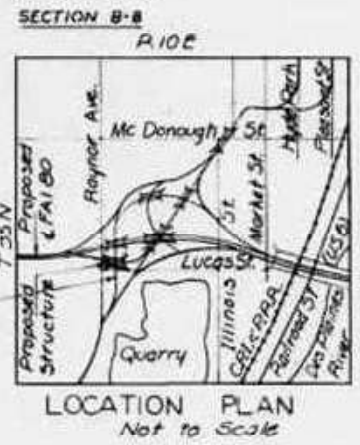
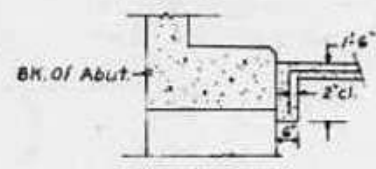
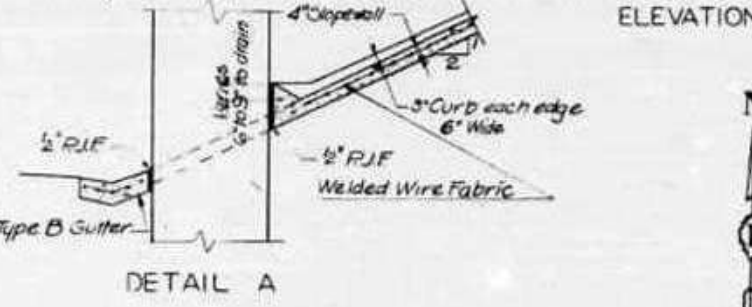
DATE	SCALE	PROJECT	SECTION	SHEET NO.
1/18/61	1/8" = 1'-0"	WILL	1/97	108
1/27/61				856



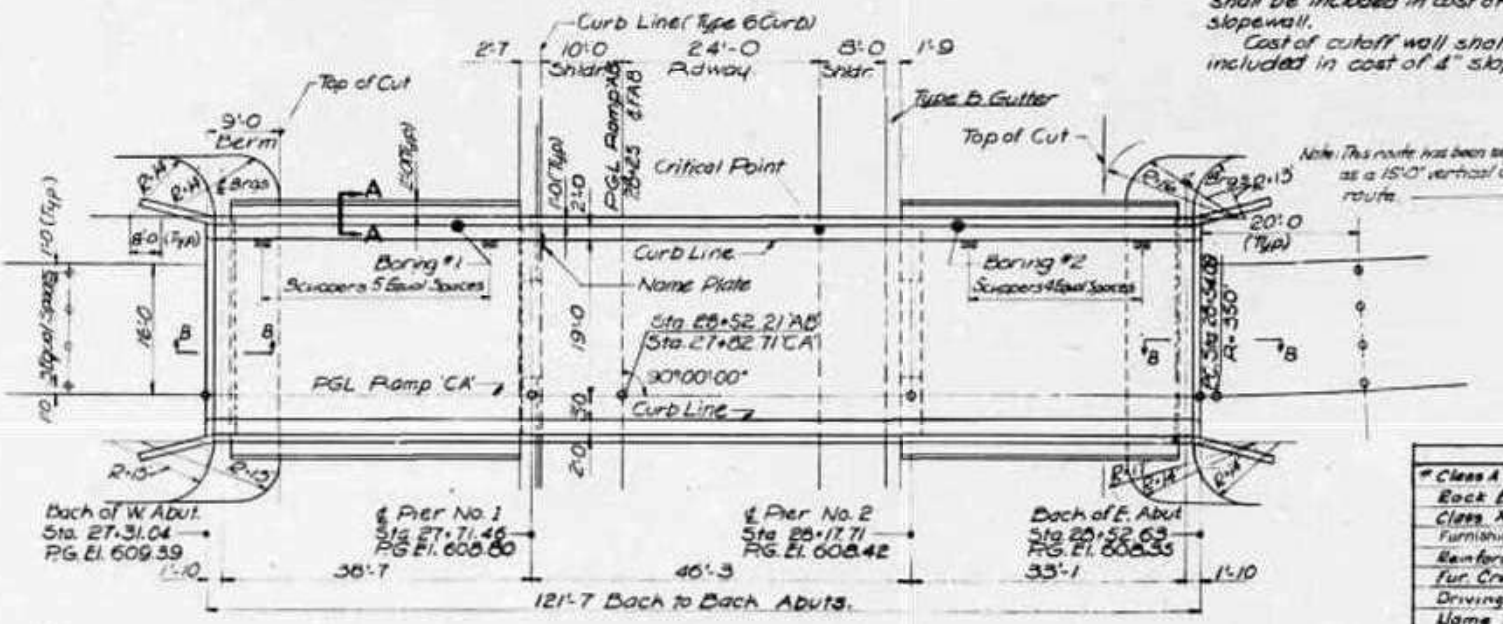
DESIGN STRESSES
Reinforced Concrete:
f_c = 3,500 psi
f_s = 20,000 psi
n = 10
R = 1400 psi (except footings)
f_c = 1000 psi (footings)
V_c = 90 psi (except footings)
V_c = 75 psi (footings)
Structural Steel:
f_s = 20,000 psi
Maximum Soil Pressure = 6 1/2 Tons/sf
Loading = HS 20-44

GENERAL NOTES
STRUCTURAL STEEL SHALL COMPLY TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A36.
RIVETS SHALL BE 3/4" # WITH 1 1/16" # OPEN HOLES UNLESS NOTED.
CLASS II CONCRETE SHALL BE USED THROUGHOUT. COARSE AGGREGATE USED IN PARAPETS AND END FOOBS SHALL BE FREE OF CHERT, FLINT, LIMONITE, LEUKITE AND SOFT SANDSTONE.
THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.
ALL WELDING SHALL COMPLY WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, OF THE AMERICAN WELDING SOCIETY.
ALL HOOKERS, BOLTERS, BEARING PLATES, LEAD PLATES, PIVETERS, 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.
ANCHOR BOLTS SHALL BE SET BEFORE CONNECTING DIAPHRAGMS OVER SUPPORT. SPACE REINFORCING TO WELD ANCHOR BOLTS.
EXPANSION GUARDS AND PLATES SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 51.13 (8) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.
EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE 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 SURFACES OF EXPANSION GUARDS INACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO COATS OF RED LEAD PAINT. THE 1/4" # WELDED STEEL SHALL NOT BE PAINTED.
REINFORCING FOR PORTLAND CEMENT STRUCTURES IN THE EMBANKMENTS SHALL NOT BE CLASSIFIED.
NO ROCK LARGER THAN 3" SHALL BE PLACED IN FILLS IN THE AREA WHERE FILLS ARE TO BE DRIVEN.
PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE FLOOR.

STATION 28+52.21
BUILT 196 BY
STATE OF ILLINOIS
FA RT B SEC 1-D-2-HB
FA PROJ U-10(9)
LOADING HS-20



See Standard 2113-1
LETTERING FOR NAME PLATE
Note: Welded Wire Fabric in slope wall shall be 6" x 6" mesh, #4 wires, 50 lbs/100 sq ft.
Cost of welded wire fabric shall be included in cost of 4" slope wall.
Cost of cutoff wall shall be included in cost of 4" slope wall.

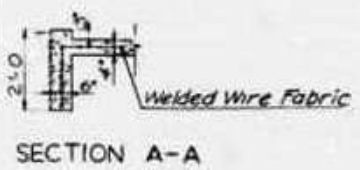


TOTAL BILL OF MATERIALS
Sec. 1-D-2 (Str. #4)

Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu Yd		287	287
Rock Excavation for Structures	Cu Yd		40	40
Class X Concrete	Cu Yd	1063	1233	2296
Furnishing & Erecting Structural Steel	Lb	70670		70670
Reinforcement Bars	Lb	21,400	14,820	36,220
Fur. Crco. Piles up to 20'	Lin Ft		96	96
Driving Timber Piles	Lin Ft		46	46
Ulam Plates	Each	1		1
Slope wall 4"	Sq Yd		296	296
Aluminum Handrail	Lin Ft	239		239
Bridge Seat Sealant	L. Sums		0.1	0.1
Protective Coat	Sq Yd	430		430

• Denotes Boring Locations

DESIGNED	JTL
CHECKED	LD & GF
DRAWN	AME
CHECKED	JTL



Note: Approach Slabs to be constructed in accordance with Method II of Illinois Standard No. 1909-6

GENERAL PLAN & ELEVATION
RAMP CA
OVER FA. ROUTE B
FA RTE B STA 28+52.21
PROJECT U-10(9)
SECTION 1-D-2 (STR. 4) WILL COUNTY
Scale NO SCALE Date Mar. 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

Prepared and Recommended by
Blauvelt Engineering Co.
Structural Engineer
R. H. W. [Signature]

FOR INFORMATION ONLY



USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	REVISION	-	REVISION	-
CHECKED	-	REVISION	-	REVISION	-
DATE	-	REVISION	-	REVISION	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

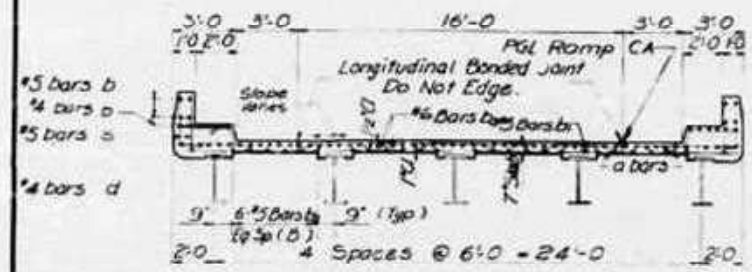
EXISTING BRIDGE PLANS
SHEET 36 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	856
			CONTRACT NO. 62R22	
		ILLINOIS FED. AID PROJECT		

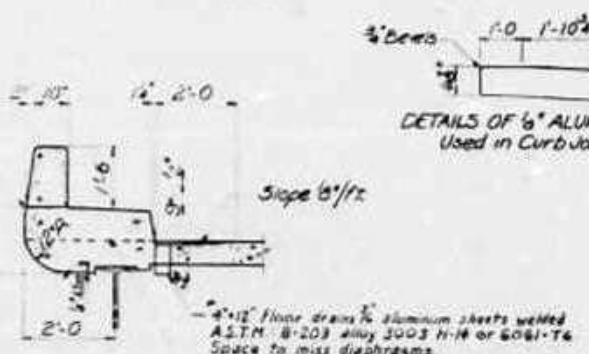
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	PROJECT	SECTION	NO.	SHEET NO.
11/11/19	FA-RTE 8	WILL	119	17

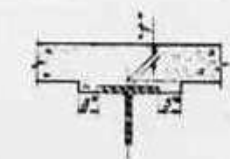
8 SHEETS



CROSS SECTION

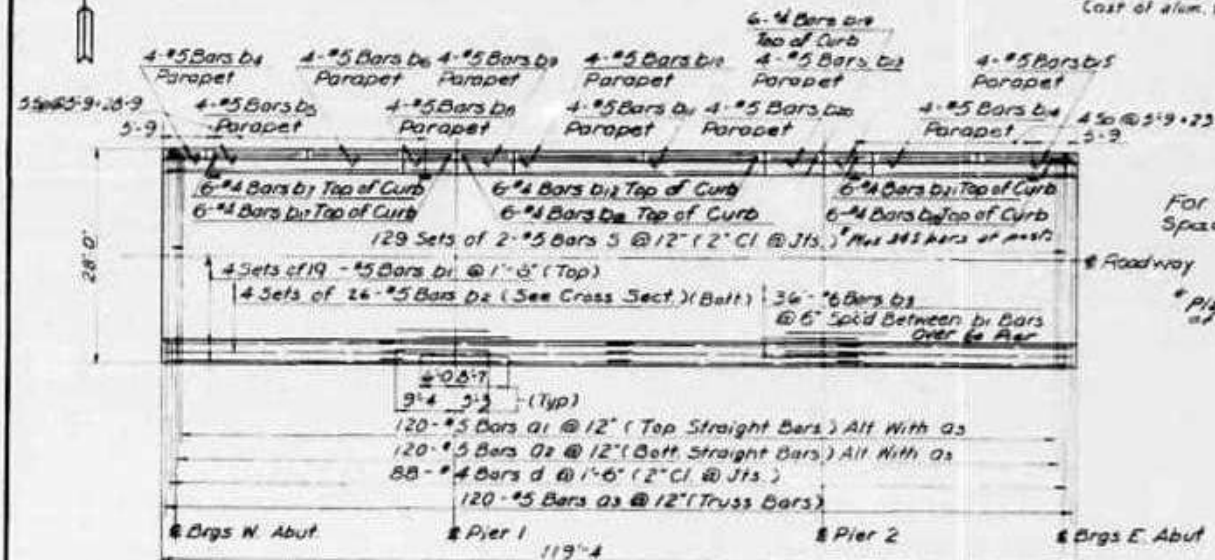


CURB DETAILS



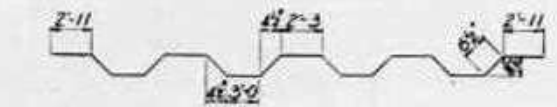
METHOD OF DETERMINING FILLET HEIGHT 't'

After all structural steel has been erected elevations of the top flanges of the beams shall be taken at intervals shown on D.L. Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so attained subtracted from the theoretical grade elevations minus floor thickness equals the fillet heights above tops of beams.

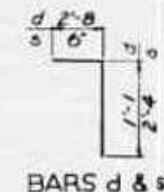


PLAN

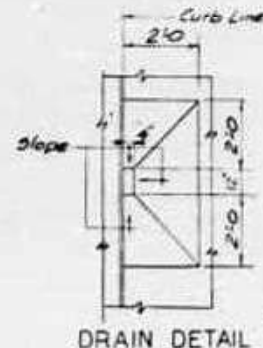
For Location of Parapet Joint Spacing See Sheet # 4
Place 2-3 bars on inside face of each curb



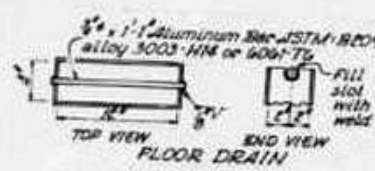
BAR a



BARS d & s



DRAIN DETAIL



TOP VIEW FLOOR DRAIN

BILL OF REINFORCEMENT

Bar	No.	Size	Lgth	Shape
a1	120	#5	27-7	—
a2	120	#5	27-3	—
a3	120	#5	28-11	—
b1	76	#5	30-9	—
b2	104	#5	30-7	—
b3	72	#5	14-7	—
b4	8	#5	3-6	—
b5	8	#5	13-10	—
b6	8	#5	14-0	—
b7	12	#5	31-11	—
b8	8	#5	6-8	—
b9	8	#5	5-11	—
b10	8	#5	10-9	—
b11	8	#5	16-6	—
b12	12	#5	33-8	—
b13	8	#5	6-2	—
b14	8	#5	15-4	—
b15	8	#5	11-4	—
b16	12	#5	26-11	—
b17	12	#5	6-8	—
b18	12	#5	5-11	—
b19	12	#5	5-8	—
b20	8	#5	5-8	—
b21	12	#5	6-2	—
d	176	#4	3-9	—
s	384	#5	2-10	—

* Structural Steel includes weight of rosters, bolters, bearing plates, lead plates, pintles and anchor bolts
Estimated Weight = 4830 lbs

Class of Concrete	Cu. Yd.	Lbs.
Class X Concrete	106.5	106.5
Reinforcement Bars	—	21,400
Structural Steel*	—	70,670

BILL OF MATERIALS

Cost of furnishing and installing drains, aluminum sheets, waterstop, pre-molded joint filler and joint sealing compound shall be incidental to the contract.

ELEVATION - TOP OF SLAB ** (Elevations are not adjusted for D.L. deflection)

Stg	1	2	3	4	5	6	7	8	9	10	11	12	13
A	60915	60834	60872	60854	60838	60823	60807	60796	60783	60778	60768	60762	60753
B	60921	60901	60882	60865	60850	60837	60823	60812	60802	60797	60789	60784	60778
C	60928	60909	60891	60876	60863	60850	60839	60829	60820	60816	60810	60806	60803
D	60934	60917	60901	60887	60876	60864	60854	60846	60839	60836	60831	60829	60827
E	60941	60925	60911	60898	60888	60878	60870	60863	60858	60855	60852	60851	60852

See Sheet No. 3 For Locations Of Points.
** Where Curb is over Stringer, elevation shown is that of the projection of top of slab along its cross slope

DESIGNED	J.J.H.
CHECKED	L.D.
DRAWN	AME & J.J.H.
CHECKED	L.D.

SLAB PLAN & CROSS SECTION
RAMP CA
OVER F.A. RTE. 8
F.A. RTE. 8 STA. 28+52.21
F.A. - ROUTE 8 SECTION 1-D-2
SCALE 1/8" = 1'-0"
DATE Nov 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURN, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

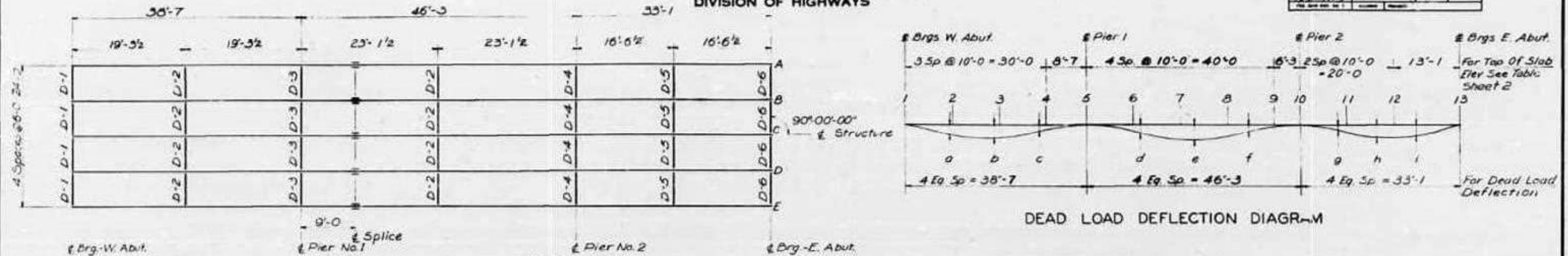
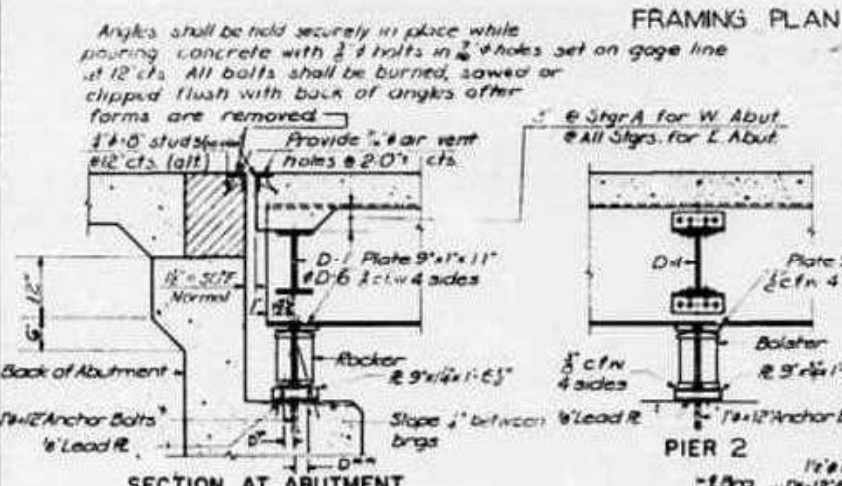


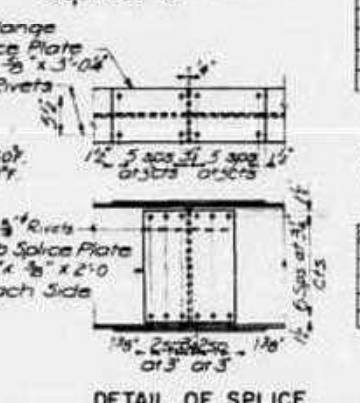
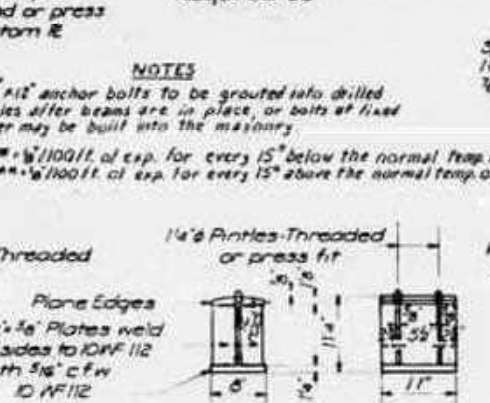
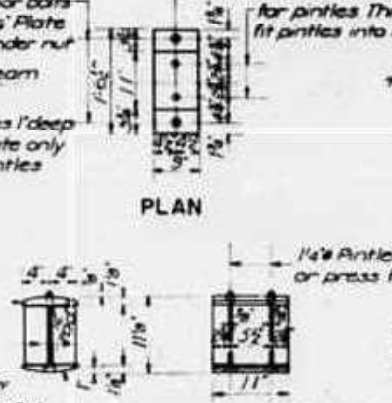
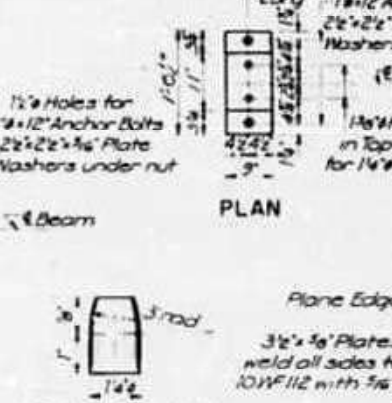
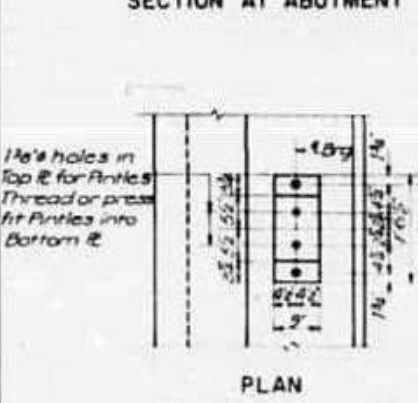
TABLE OF DEAD LOAD DEFLECTIONS (Inches)

Strg	a	b	c	d	e	f	g	h	i
A, E	0	2	4	6	8	10	12	14	16
B, C, D	0	2	4	6	8	10	12	14	16

Includes weight of concrete only.



NOTES:
All Stg's Are 27W94
D-1 & D-6 Diaphragms Are 12W40
All Other Diaphragms Are 8W28
D-1, D-2 & D-3 Diaphragms Are Level Between Stg's A & E
D-4 & D-5 Diaphragms Are Level Between Two Adjacent Stg's
D-6 Diaphragms Are Banked To The Same Cross Slope As The Slab Above
All 'm' Dimensions Are At The Southern Face of Stg's
For D-2 Diaphragms m = 5 1/2" @ A Stg.
For D-3 Diaphragms m = 7 1/2" @ A Stg.
For D-4 Diaphragms m = 11 1/2", 9 1/2", 7 1/2" & 5 1/2" @ A, B, C & D Stg's Respectively
For D-5 Diaphragms m = 8 1/2", 7 1/2", 6 1/2" & 5 1/2" @ A, B, C & D Stg's Respectively



AS AWARDED
TOP OF BEAM ELEVATIONS

Strg	1	5	10	13
A	608.52	607.13	607.62	606.90
B	608.58	607.87	607.75	607.15
C	608.65	608.00	607.88	607.33
D	608.71	608.13	608.02	607.73
E	608.78	608.23	608.16	607.92

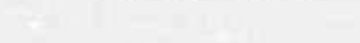
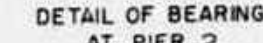
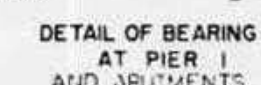
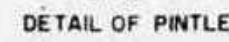
These elevations are at top of top flange of stringer exclusive of deflections.

Notes
For top of slab elevations see Str #2

*AS BUILT

Strg	1	5	10	13
A	607.64	607.14	607.64	607.14
B	607.78	607.38	607.88	607.38
C	607.86	607.46	607.96	607.46
D	607.94	607.54	608.04	607.54
E	608.02	607.62	607.72	607.22

DESIGNED JTL
CHECKED LD
DRAWN AME & J.F.H.
CHECKED TLL

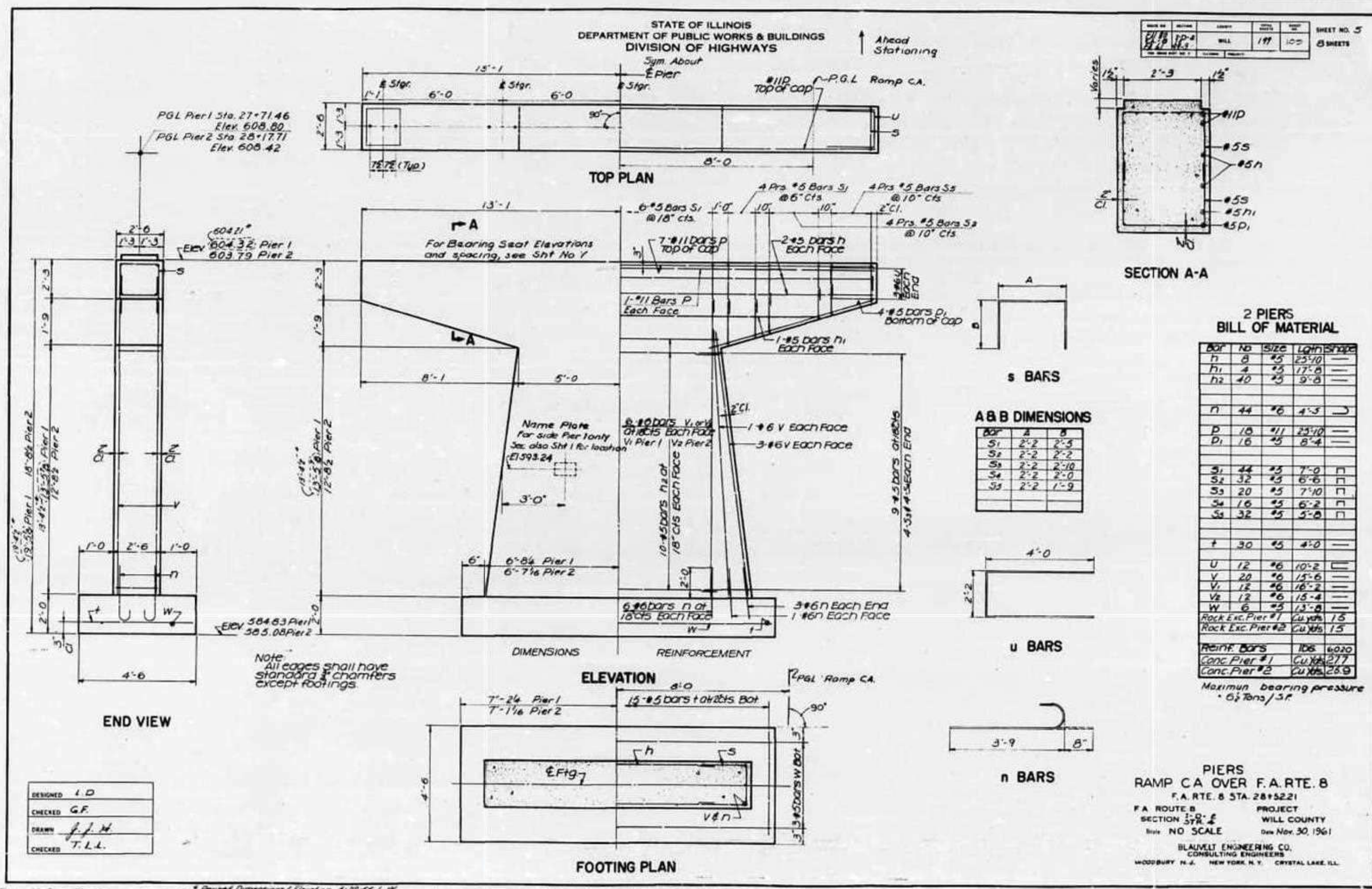


FRAMING PLAN & STEEL DETAILS
RAMP CA OVER F.A. RTE. 8
F.A. RTE. 8 STA. 28+52.21
SECTION 3-4
PROJECT WILL COUNTY
Date Nov 30 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODSBURY #2 NEW YORK N.Y. CRYSTAL LAKE ILL.

FOR INFORMATION ONLY

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

DATE	BY	CHKD	APP'D	SHEET NO. 5
11/17/61	WLL	177	105	8 SHEETS



DESIGNED	I.D.
CHECKED	G.F.
DRAWN	J.J.H.
CHECKED	T.L.L.

Note: All edges shall have standard chamfers except footings.

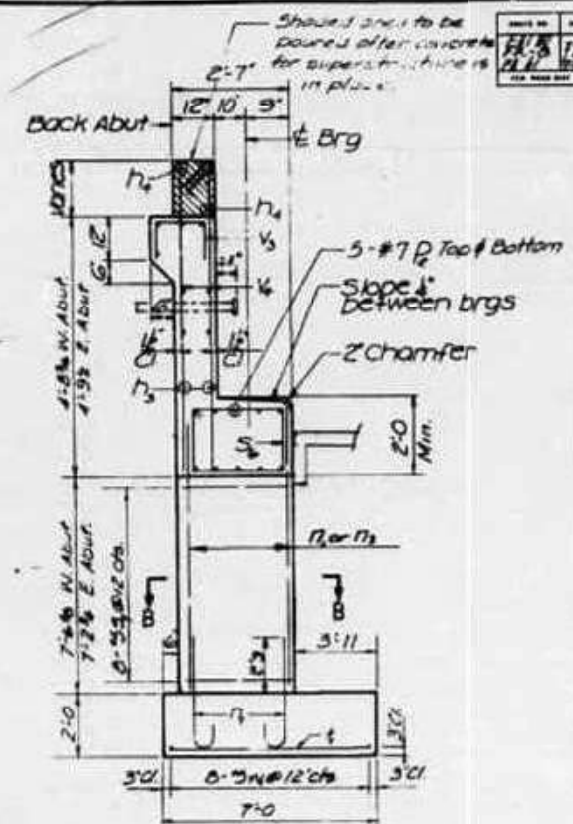
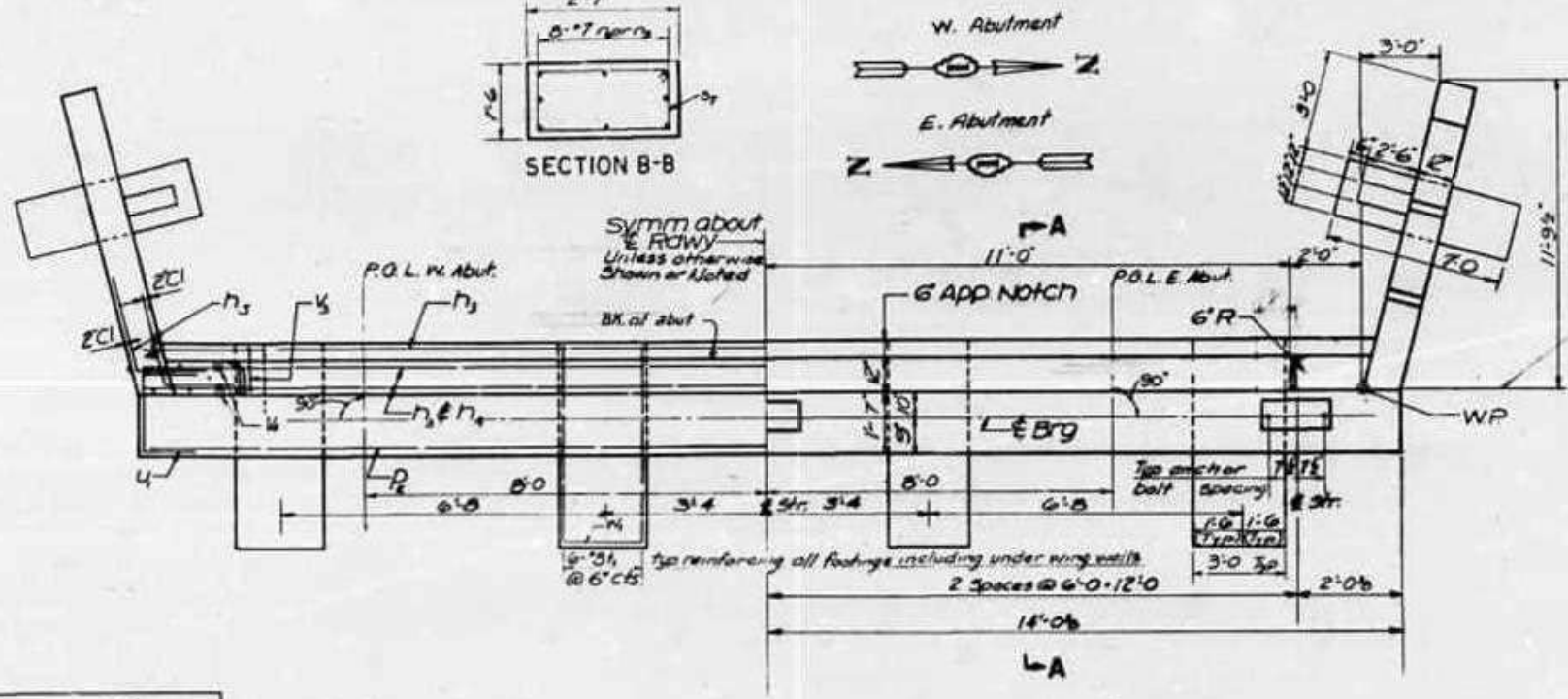
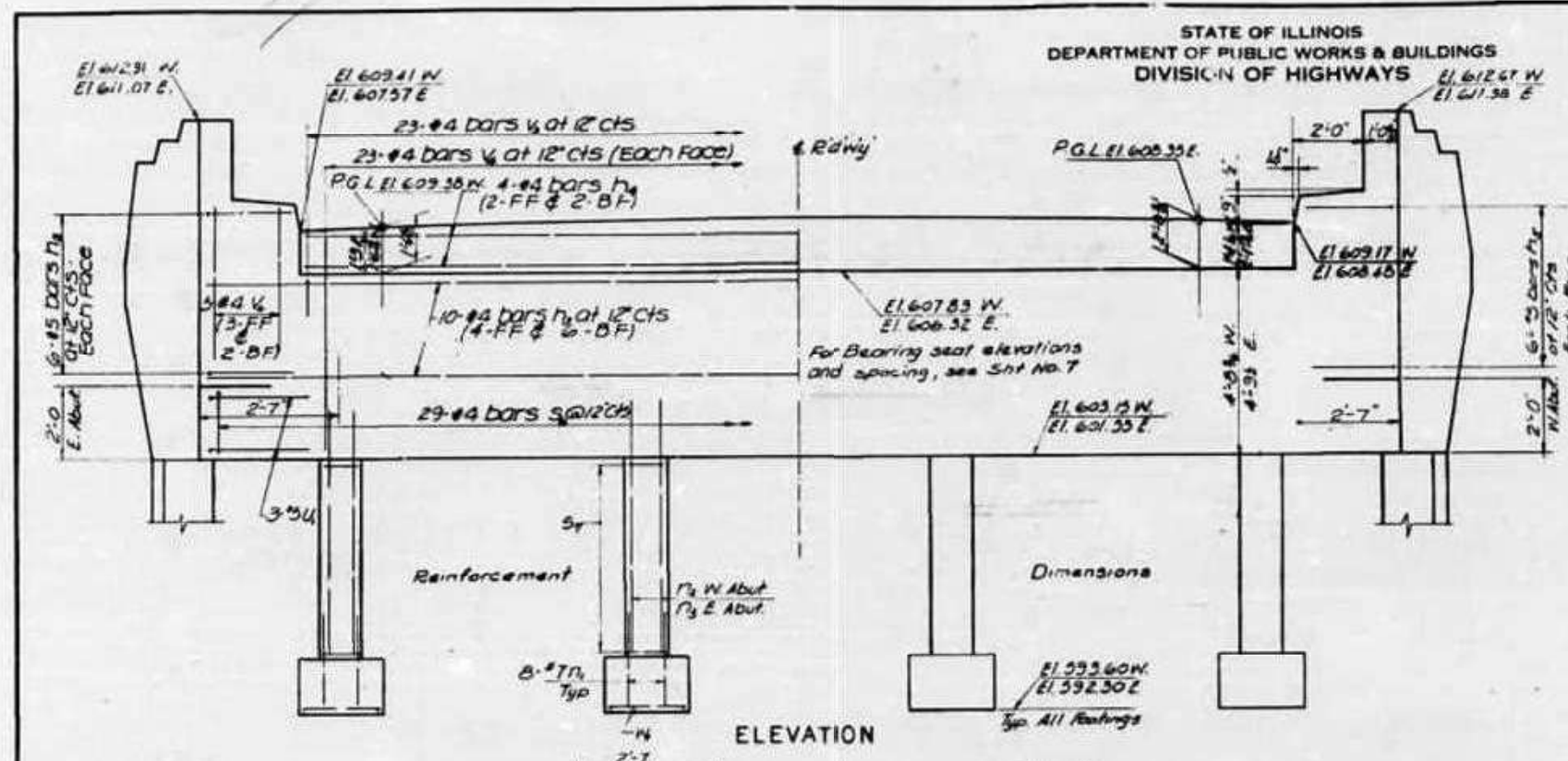
**2 PIERS
BILL OF MATERIAL**

BAR NO	SIZE	LNTH	SHAPE
n	#8	25'-10"	—
n1	#5	17'-8"	—
n2	#5	9'-8"	—
n	#6	4'-5"	U
p	#11	25'-10"	—
D1	#5	8'-4"	—
s1	#5	7'-0"	□
s2	#5	6'-6"	—
s3	#5	7'-10"	□
s4	#5	6'-2"	□
s5	#5	5'-0"	□
t	#5	4'-0"	—
u	#6	10'-2"	—
v	#6	15'-6"	—
v1	#6	16'-2"	—
v2	#6	15'-4"	—
w	#5	13'-8"	—
Rock Exc. Pier #1	Cu Yds	15	
Rock Exc. Pier #2	Cu Yds	15	
Reinf. Bars	lbs	6020	
Conc. Pier #1	Cu Yds	277	
Conc. Pier #2	Cu Yds	259	

Maximum bearing pressure = 6 1/2 Tons/S.F.

**PIERS
RAMP CA OVER F.A. RTE. 8**
F.A. RTE. 8 STA. 28+52.21
F.A. ROUTE 8 PROJECT
SECTION 37R.4 WILL COUNTY
Date Nov. 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.Y. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



2 ABUTMENTS
BAR LIST

BAR NO	SIZE	LGTH	SHAPE
n ₁	20	#4	27'8"
n ₂	8	#4	21'8"
n ₃	24	#5	4'9"
n ₄	88	#7	4'10"
n ₅	44	#7	9'4"
n ₆	44	#7	9'0"
p ₁	20	#7	27'8"
s ₁	38	#4	8'8"
s ₂	64	#5	7'10"
s ₃	32	#5	8'8"
u ₁	12	#5	5'3"
v ₁	72	#5	6'6"
v ₂	46	#4	2'9"
v ₃	66	#4	5'8"
w ₁	96	#5	2'6"

2 ABUTMENTS
BILL OF MATERIAL

Item	UNIT	QUAN
Reinf. Bars	lbs.	8430
Class X Conc. Abut.	Cu Yds	34.8
Class X Conc. W. Abut.	Cu Yds	33.9
Rock Exc. E. Abut.	Cu Yds	5
Rock Exc. W. Abut.	Cu Yds	5
Class A Exc. E. Abut.	Cu Yds	108
Class A Exc. W. Abut.	Cu Yds	146

Note: Bill of Material includes Reinforcement and Class X Concrete for End Posts. Maximum bearing pressure = 32 ton/5.F. Footing should extend 1'0" into Sound Rock.

DESIGNED	L.D.
CHECKED	GF
DRAWN	SEF
CHECKED	2/2/4

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	860

CONTRACT NO. 62R22

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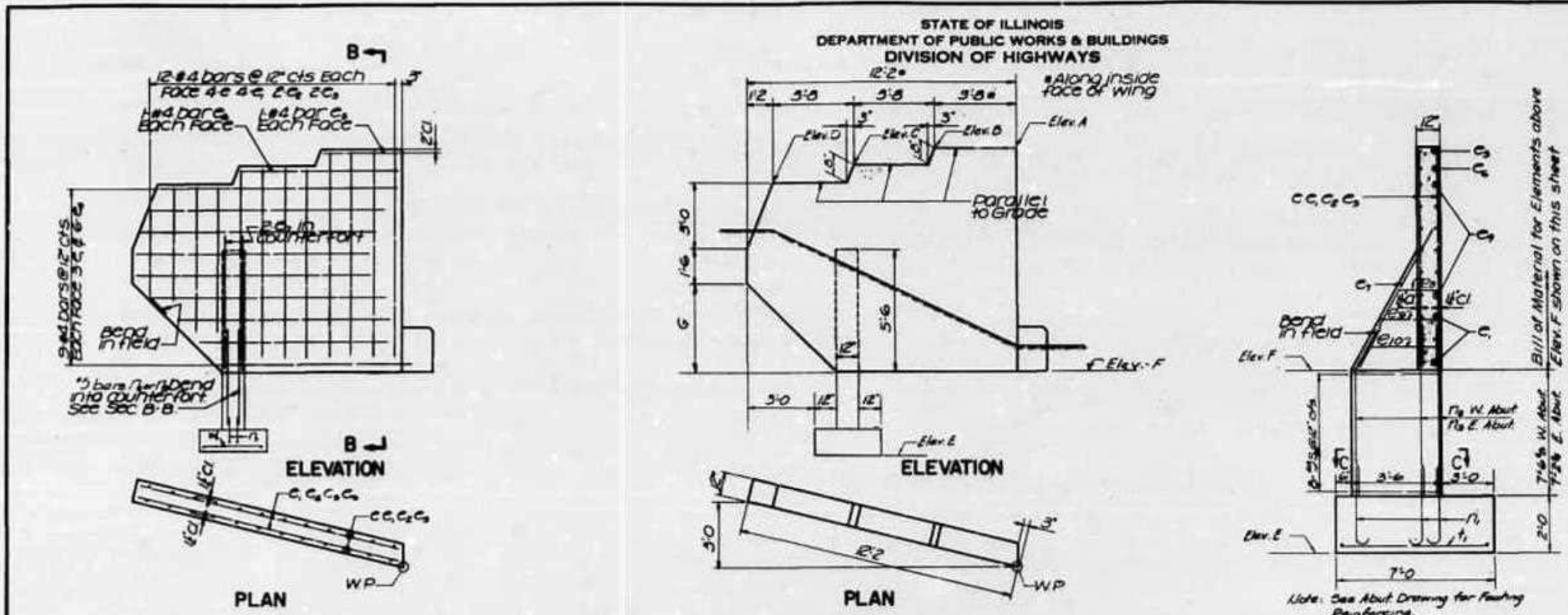
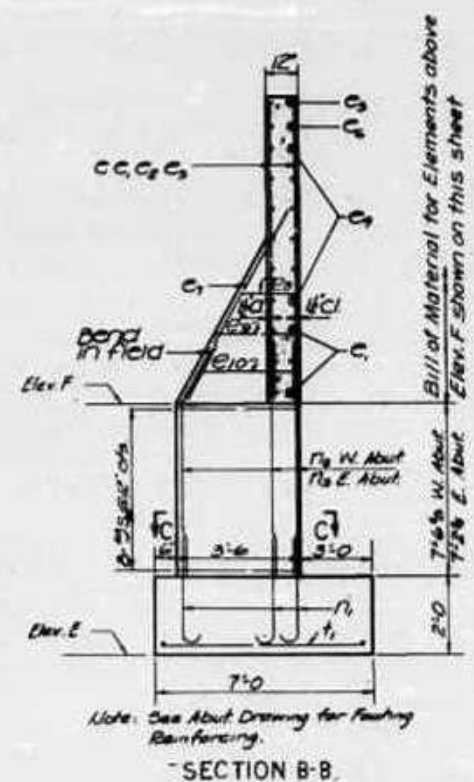
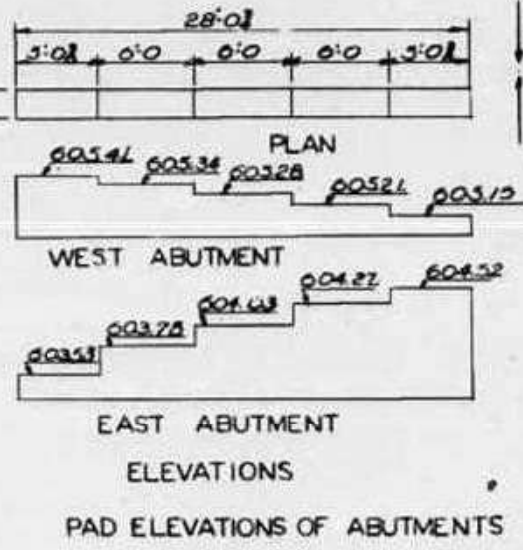
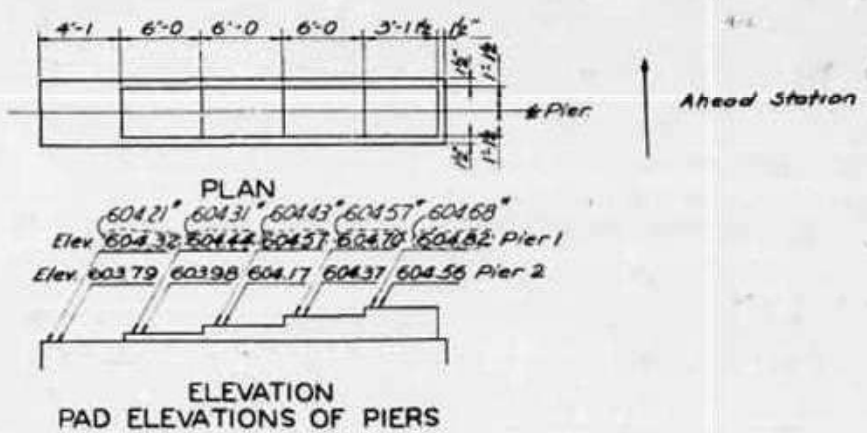


TABLE OF WINGWALL ELEVATIONS & DIMENSIONS

Wingwall	PT	A	B	C	D	E	F	G
E. Abut.	N.E. W.	611.07	611.08	610.42	609.76	592.50	601.33	3'-8 1/2"
	S.E. W.	611.38	611.38	611.32	610.66	592.50	601.33	4'-7 1/2"
W. Abut.	N.W. W.	612.67	612.79	611.21	611.54	593.60	603.75	3'-10 1/2"
	S.W. W.	612.31	612.38	612.38	611.78	593.60	603.75	4'-11"

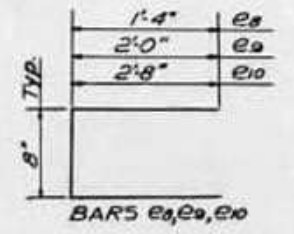


ONE END POST BILL OF MATERIAL

Bar No	Size	Length	Shape
C1	#4	9'-3"	—
C2	#4	8'-6"	—
C3	#4	6'-6"	—
C4	#4	5'-0"	—
C5	#4	10'-6"	—
C6	#4	3'-6"	—
C7	#4	7'-0"	—
C8	#4	7'-0"	—
C9	#4	3'-2"	—
C10	#4	4'-6"	—
C11	#4	5'-10"	—

REINFORCEMENT BARS 105 280
 CLASS X CONC.
 W. Abut. Two 8" dia. Cyls. B.0
 E. Abut. Two 8" dia. Cyls. B.2

*Included in quantity on Sht. No. 6



DESIGNED	L. D.
CHECKED	G. F.
DRAWN	J. J. H.
CHECKED	T. L. L.

PIER ELEVATIONS & ABUTMENT DETAILS
 RAMP CA
 OVER F.A.R.T.E. B
 F.A.R.T.E. B STA. 28+52.21
 F.A. ROUTE 8 SECTION (STR-4) PROJECT WILL COUNTY
 Scale: NO SCALE Date: Nov. 30, 1961
 BLAUVELT ENGINEERING CO.
 WOODBURY N.Y. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

* Revised Elevations 4-28-66 L.W.
 11-13-64 J.T.J. Rev. all end post elevations, class x conc. w. abut. from 7.6 to 8.0 cu yds. E. Abut. from 8.4 to 8.2 cu yds.

FOR INFORMATION ONLY

Bench Mark No. 44A. RR Spt. in power pole NW Corner
Lucas and Hunter Sts. Elev. 590.454

No Existing Structure

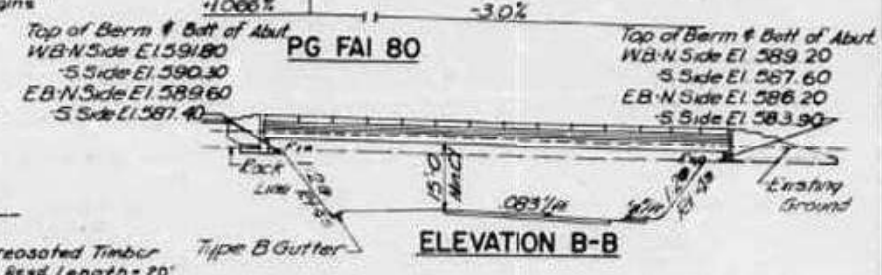
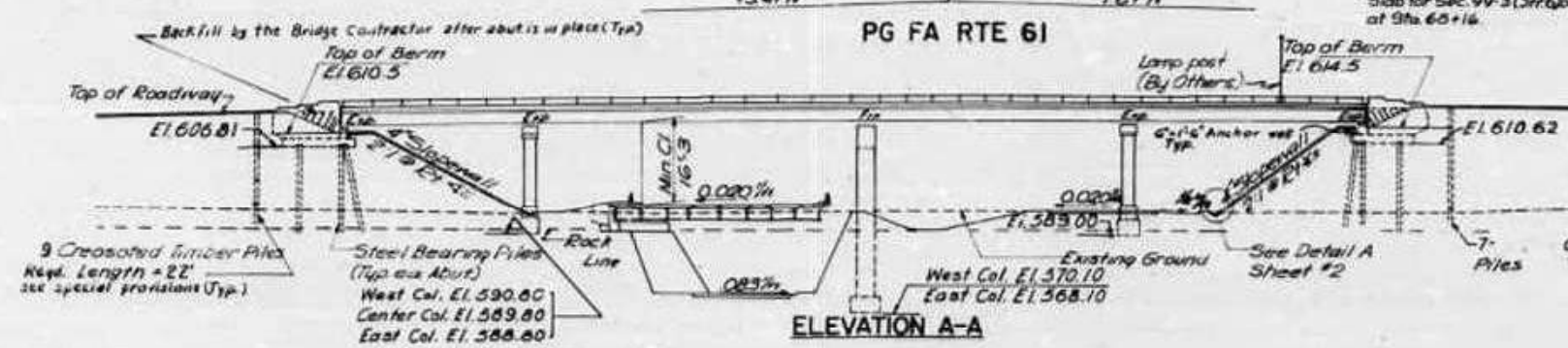
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Approach Slab for Sec. 10 (5 Str. 5)
ends at Sta. 66+16 and Approach
Slab for Sec. 99-3 (5 Str. 6) begins
at Sta. 66+16

PVI Sta. 558+80
EI 625.59
VC=1600'
MO=8.13

DATE	BY	REVISION	DATE	BY
11/18/11	RS	WILL	1/97	113
FILE NO. 113-113-113				

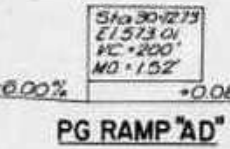
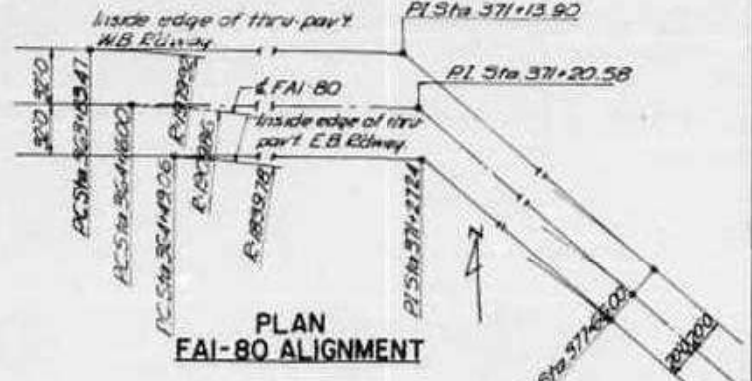
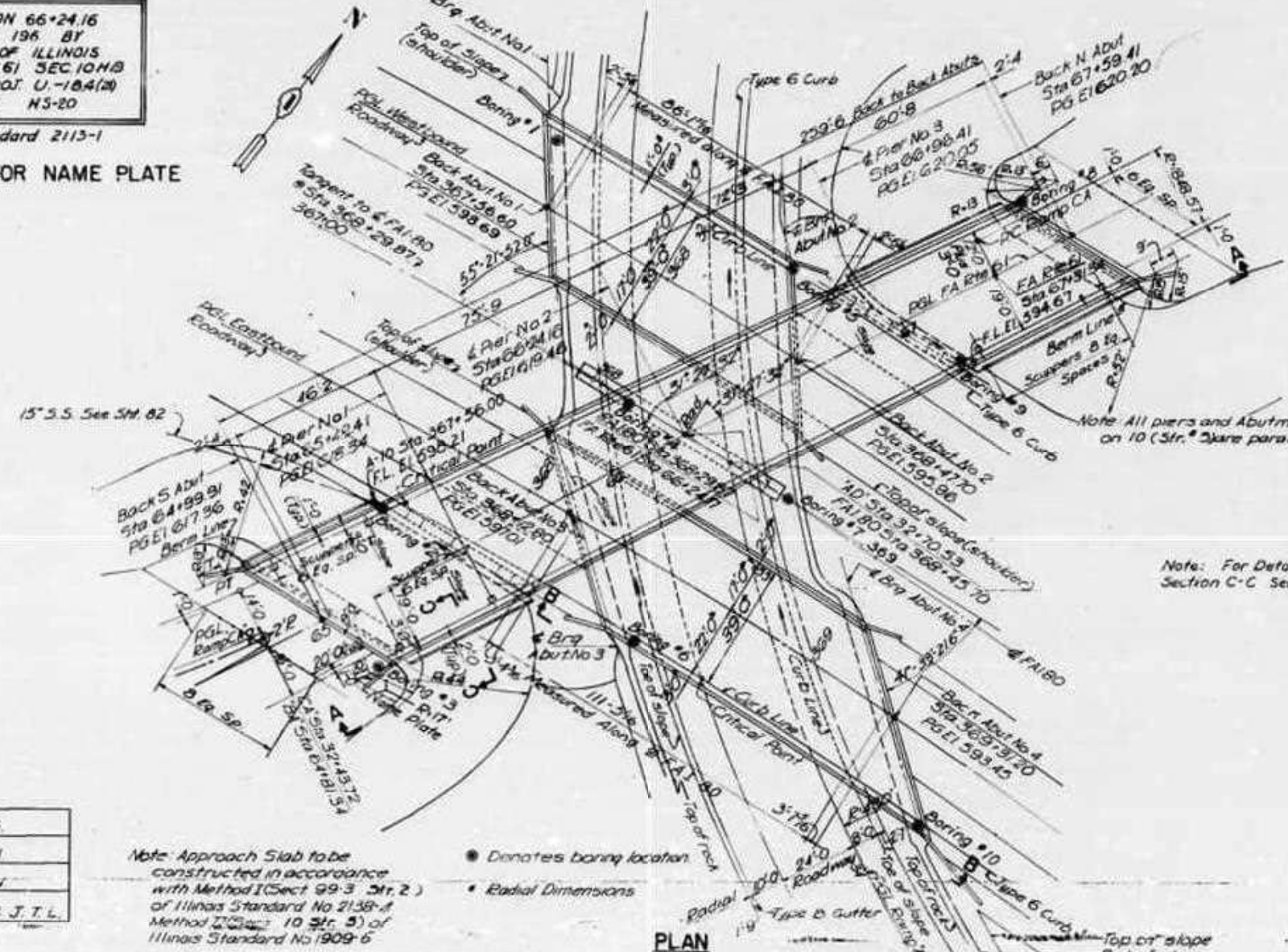
SHEET NO. 1
12 SHEETS



STATION 66+24.16
BUILT 196 BY
STATE OF ILLINOIS
FA. RTE 61 SEC. 10 (5)
FA. PROJ. U-184 (2)
LOADING HS-20

See Standard 2113-1

LETTERING FOR NAME PLATE



GENERAL PLAN & ELEVATION
FA. ROUTE 61 OVER FA.I. ROUTE 80
FA. RTE. 6; STA. 66+24.16

FA. ROUTE 61 SECTION 10 (STR. 5)
PROJECT U-184(2)
WILL COUNTY
Date NOV. 30, 1961

Prepared and Recommended
By: Blauvelt Engineering Co.
Structural Engineer
51-2251
Rosa H. Wengert

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. SHERMAN LAKE, ILL.

DESIGNED	C. S.
CHECKED	R. H.
DRAWN	C. N.
CHECKED	R. H. & J. T. L.

Note: Approach Slab to be
constructed in accordance
with Method 1 (Sect. 99-3 Str. 2.)
of Illinois Standard No. 2138-A
Method 2 (Sect. 10 Str. 5) of
Illinois Standard No. 1909-6

• Denotes boring location
• Radial Dimensions

Note: For Detail "A", C-I-C anchor wall detail and
Section C-C See Sect No. 2

Note: This route has been selected as a 15'-0"
vertical clearance route.

Note: All piers and Abutments
on 10 (Str. 5) are parallel.

FOR INFORMATION ONLY

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WSP USA Inc.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
PLOT SCALE	= 7:11,99616 "/in.	DATE	-	REVISED	-
PLOT DATE	= 4/22/2025				

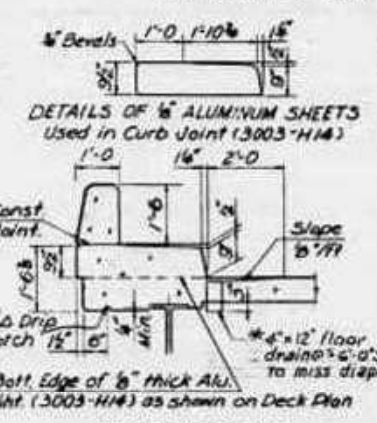
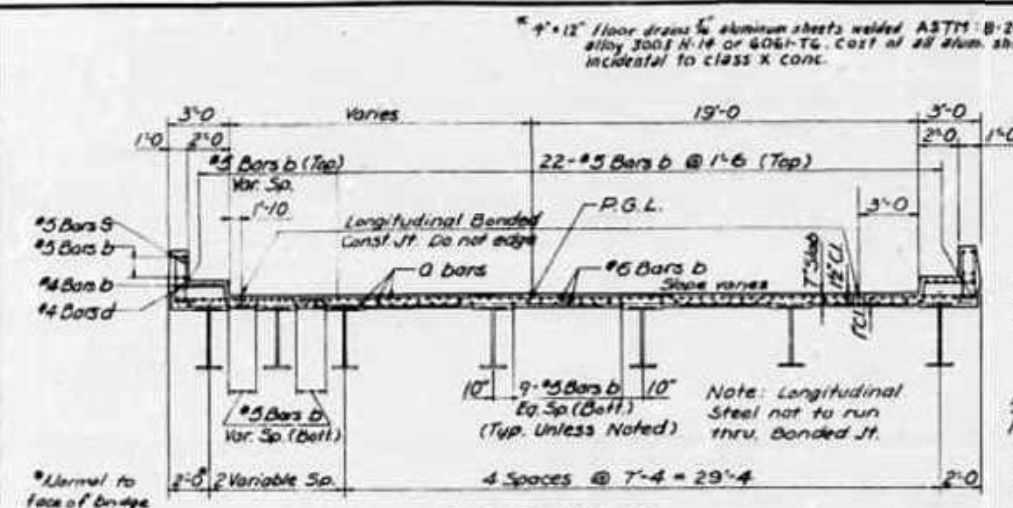
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SHEET 42 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	862
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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

DATE	11/28/19	WILL	197	119	SHEET NO. 3
BY	J.P.S.				1/2 SHEETS

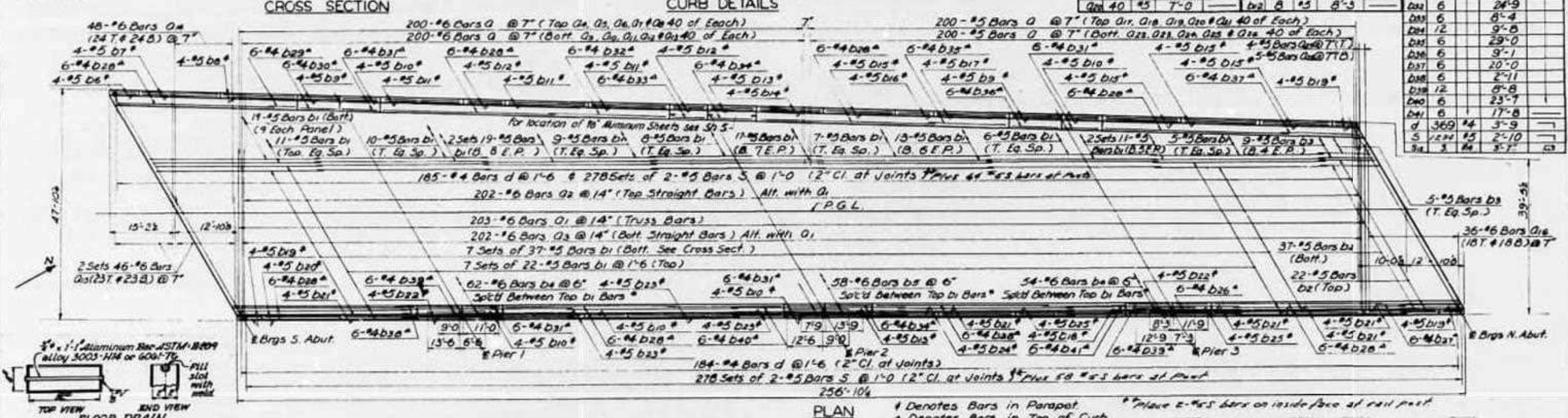


After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Dead Load Deflection Diagram. From these Elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals the fillet heights above tops of beams.

METHOD OF DETERMINING FILLET HEIGHT 'F'

BILL OF REINFORCEMENT - Bars will vary from 2'-0 to full length.

Bar No.	Size	Length	Shape	Bar No.	Size	Length	Shape	Bar No.	Size	Length	Shape
Q1	#6	35'-0		Q21	#5	6'-2		Q31	#5	9'-8	
Q2	#6	33'-8		Q22	#5	11'-7		Q32	#5	14'-0	
Q3	#6	31'-8		Q23	#5	10'-9		Q33	#5	16'-1	
Q4	#6	13'-11		Q24	#5	9'-11		Q34	#5	7'-8	
Q5	#6	13'-1		Q25	#5	9'-0		Q35	#5	13'-1	
Q6	#6	12'-2		Q26	#5	8'-2		Q36	#5	13'-9	
Q7	#6	11'-4		Q27	#5	5'-0		Q37	#5	5'-2	
Q8	#6	10'-6		Q28	#5	7'-0		Q38	#5	16'-4	
Q9	#6	15'-11		Q29	#5	36'-0		Q39	#5	15'-8	
Q10	#6	15'-1		Q30	#5	11'-6		Q40	#5	8'-8	
Q11	#6	14'-2		Q31	#5	17'-3		Q41	#5	16'-6	
Q12	#6	13'-4		Q32	#5	20'-0		Q42	#5	13'-6	
Q13	#6	12'-6		Q33	#5	21'-6		Q43	#5	7'-7	
Q14	#6	24'-1		Q34	#5	5'-4		Q44	#5	7'-7	
Q15	#6	24'-6		Q35	#5	16'-8		Q45	#5	18'-6	
Q16	#6	32'-9		Q36	#5	15'-11		Q46	#5	36'-0	
Q17	#6	9'-7		Q37	#5	8'-11		Q47	#5	3'-8	
Q18	#6	8'-9		Q38	#5	8'-0		Q48	#5	8'-11	
Q19	#6	7'-11		Q39	#5	16'-8		Q49	#5	8'-0	
Q20	#6	7'-0		Q40	#5	8'-3		Q50	#5	24'-9	
Q21	#5	6'-2		Q41	#5	8'-4		Q51	#5	8'-4	
Q22	#5	11'-7		Q42	#5	9'-8		Q52	#5	9'-8	
Q23	#5	10'-9		Q43	#5	29'-0		Q53	#5	29'-0	
Q24	#5	9'-11		Q44	#5	9'-1		Q54	#5	9'-1	
Q25	#5	9'-0		Q45	#5	20'-0		Q55	#5	20'-0	
Q26	#5	8'-2		Q46	#5	2'-11		Q56	#5	2'-11	
Q27	#5	5'-0		Q47	#5	8'-8		Q57	#5	8'-8	
Q28	#5	7'-0		Q48	#5	23'-7		Q58	#5	23'-7	
Q29	#5	36'-0		Q49	#5	17'-8		Q59	#5	17'-8	
Q30	#5	11'-6		Q50	#5	3'-9		Q60	#5	3'-9	
Q31	#5	17'-3		Q60	#5	2'-10		Q61	#5	2'-10	
Q32	#5	20'-0		Q61	#5	8'-7		Q62	#5	8'-7	
Q33	#5	21'-6		Q62	#5	8'-7					
Q34	#5	5'-4									
Q35	#5	16'-8									
Q36	#5	15'-11									
Q37	#5	8'-11									
Q38	#5	8'-0									
Q39	#5	16'-8									
Q40	#5	8'-3									



ELEVATION - TOP OF SLAB (Elevations are not adjusted for dead load deflections)

Sta.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
A	616.17	616.52	616.86	617.19	617.50	617.72	618.02	618.30	618.57	618.84	619.03	619.30	619.43	619.52	619.64	619.75	619.85	619.94	620.02	620.09	620.18	620.23	620.27	620.31	620.33	620.35	620.36
B	616.58	616.89	617.19	617.48	617.75	617.93	618.19	618.44	618.68	618.91	619.13	619.30	619.43	619.51	619.62	619.73	619.83	619.92	620.00	620.07	620.15	620.20	620.24	620.28	620.30	620.32	620.32
C	616.97	617.23	617.49	617.74	617.98	618.12	618.34	618.56	618.77	618.97	619.15	619.29	619.42	619.49	619.60	619.71	619.81	619.90	619.97	620.04	620.12	620.17	620.21	620.25	620.27	620.29	620.29
D	617.32	617.55	617.77	617.98	618.18	618.30	618.49	618.66	618.83	618.99	619.14	619.27	619.40	619.47	619.58	619.68	619.77	619.86	619.93	620.00	620.07	620.12	620.15	620.18	620.20	620.22	620.22
E	617.43	617.65	617.85	618.05	618.24	618.35	618.52	618.69	618.84	618.99	619.13	619.26	619.38	619.44	619.55	619.65	619.73	619.82	619.89	619.97	620.01	620.06	620.09	620.12	620.13	620.14	620.14
F	617.45	617.66	617.86	618.06	618.24	618.35	618.52	618.68	618.83	618.97	619.11	619.23	619.35	619.41	619.52	619.61	619.70	619.77	619.84	619.90	619.96	620.00	620.03	620.05	620.06	620.07	620.07
G	617.47	617.68	617.88	618.06	618.24	618.35	618.52	618.67	618.82	618.96	619.09	619.21	619.32	619.38	619.48	619.57	619.65	619.73	619.79	619.85	619.90	619.94	619.96	619.98	619.99	619.99	619.99

TOP OF BEAM ELEVATIONS

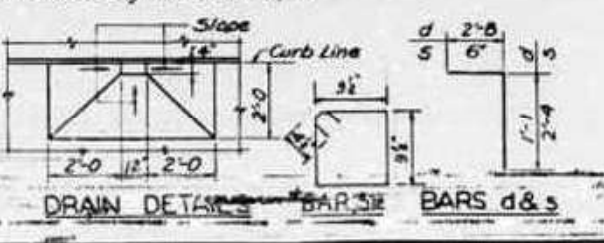
Sta.	Pt.	S. Abut.	Pier 1	Splice	Pier 2	Splice	Pier 3	Splice	N. Abut.
A	615.50	617.05	617.43	618.85	619.05	619.51	619.58	619.69	
B	615.91	617.26	617.59	618.84	619.03	619.48	619.53	619.60	
C	616.30	617.85	617.73	618.82	619.01	619.45	619.52	619.62	
D	616.65	617.63	617.87	618.80	618.98	619.40	619.46	619.55	
E	616.76	617.68	617.90	618.77	618.95	619.38	619.40	619.47	
F	616.79	617.60	617.89	618.74	618.92	619.39	619.34	619.39	
G	616.73	617.52	617.80	618.69	618.87	619.29	619.25	619.34	

BILL OF MATERIALS

Class "X" Concrete	Cu. Yd.	329.1
Reinforcement Bars	Lbs.	86,030
Structural Steel	Lbs.	355,700

Structural Steel includes: Weight of Rockers, Bolsters, Bearing Plates, Lead Plates, Pinfles and Adhocal Bolts.

Estimated Wt. = 10,147 lbs.



SLAB PLAN & CROSS SECTION
FA ROUTE 61 OVER FAI ROUTE 80
FA ROUTE 61 STA. 66+24.16
SECTION 10-STR 5
Date Nov. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
NEW YORK, N. Y. CRYSTAL LAKE, ILL.

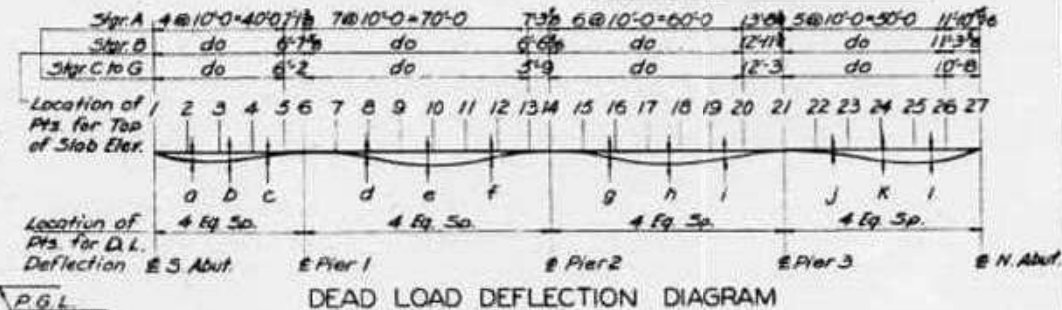
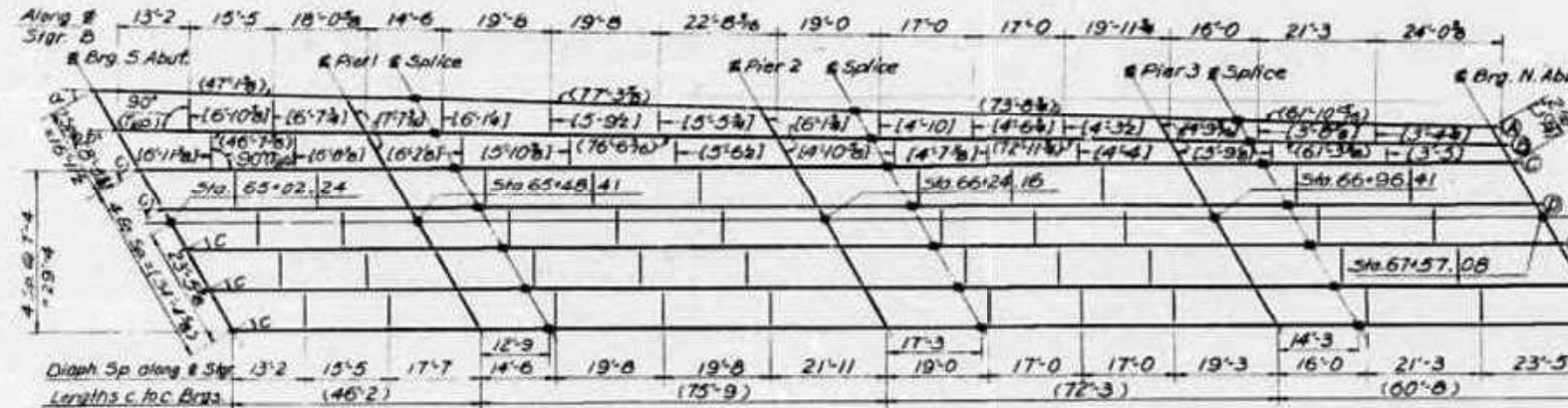
AS AWARDED

FOR INFORMATION ONLY

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

DATE	BY	CHECKED	SCALE	SHEET NO.
11-10-64	J.M.J.	L.D.	1/8" = 1'-0"	4

SHEET NO. 4
12 SHEETS



Note: $4a = 33'-11"-30"$ $4b = 32'-23"-15"$ $4c = 31'-27"-32"$ D-1, D-2 & D-3 Denote Abut, Pier & Inter Diaph. Respectively
Number in () is the distance c. to c. of Bearings along $\&$ of Stgr.
Number in [] is the distance c. to c. of Stgrs along $\&$ of Diaph.

Stgr	Section	Cor. R.L. L. Dimension		
		Pier 1	Pier 2	Pier 3
A. C. THOU G	36" x 170	4'-6"	4'-6"	4'-2"
B	30" x 135	4'-6"	4'-6"	4'-2"

Angles shall be held securely in place while pouring concrete with $\frac{3}{8}$ " bolts in $\frac{3}{4}$ " holes set on gage line at 12" cts. All bolts shall be burned sawed or clipped flush with back of angles after forms are removed.

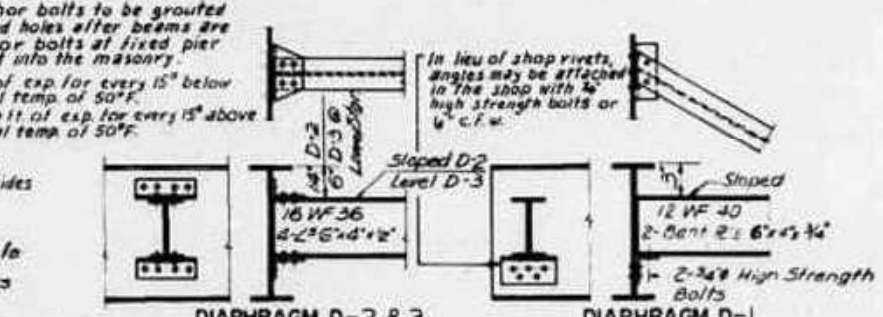
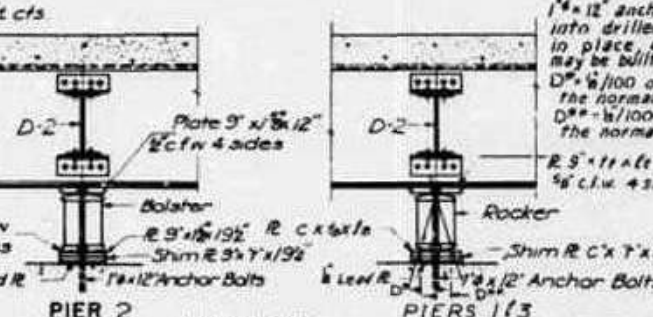
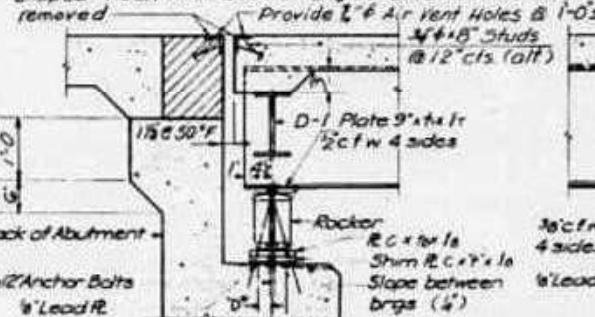


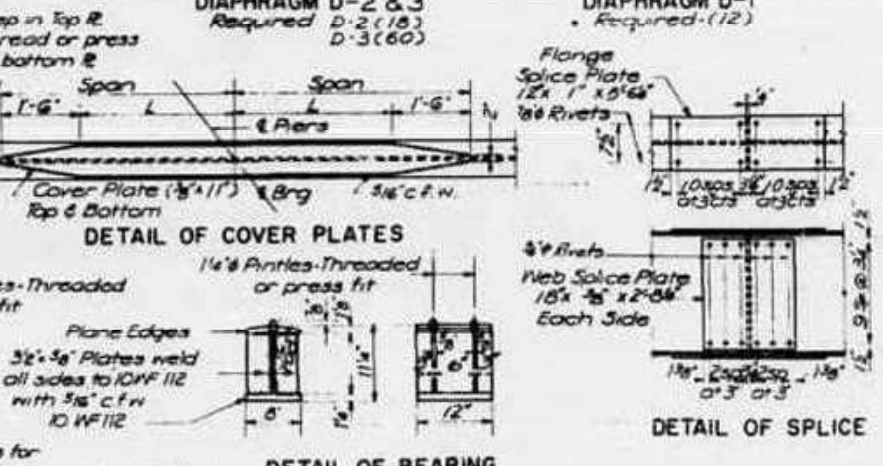
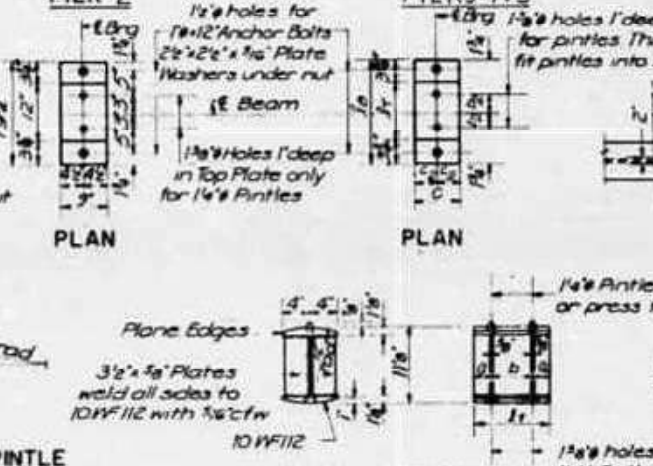
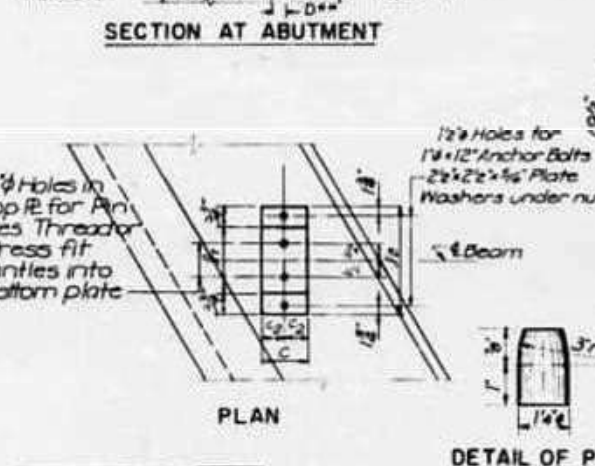
TABLE OF DEAD LOAD DEFLECTION

Stgr	A	B	C to F	G
0	16"	16"	22"	16"
d	12"	16"	12"	12"
c	0	0	0	0
d	16"	12"	12"	12"
e	16"	12"	12"	12"
f	16"	12"	12"	12"
g	16"	12"	12"	12"
h	16"	12"	12"	12"
i	16"	12"	12"	12"
j	16"	12"	12"	12"
k	16"	12"	12"	12"
l	16"	12"	12"	12"

Note: (-) Indicates upward deflection. Deflections are due to weight of concrete.

DIMENSIONS FOR BEARINGS

Stgr	Abut. 1	Pier 1	Pier 3	Abut. 2
Dim.	A-C	B	A-C	B
0	34"	34"	34"	34"
b	62"	62"	62"	62"
c	9"	9"	9"	9"
f	13"	13"	13"	13"
g	1"	1"	1"	1"
h	202"	202"	202"	202"
l	16"	16"	16"	16"



FRAMING PLAN & STEEL DETAILS
FA ROUTE 61 OVER FA I ROUTE 80
FA ROUTE 61 STA. 66+24.16
SECTION 10-STR. 5
Scale NO SCALE
PROJECT WILL COUNTY
Date Nov. 30, 1964
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED G. F.
CHECKED J.P.S. & J.T.L.
DRAWN P. H.
CHECKED L. D.

* AS BUILT SHIM (t) THICKNESS

Stgr	A	B	C	D	E	F	G
Abut. 1	2	2	2	2	2	2	2
Pier 1	2	2	2	2	2	2	2
Pier 2	2	2	2	2	2	2	2
Pier 3	2	2	2	2	2	2	2
Abut. 2	2	2	2	2	2	2	2

AS AWARDED SHIM (t) THICKNESS

Stgr	A	B	C	D	E	F	G
Abut. 1	2	2	2	2	2	2	2
Pier 1	2	2	2	2	2	2	2
Pier 2	2	2	2	2	2	2	2
Pier 3	2	2	2	2	2	2	2
Abut. 2	2	2	2	2	2	2	2

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 44 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	864

CONTRACT NO. 62R22

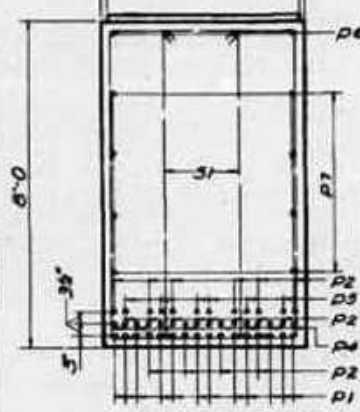
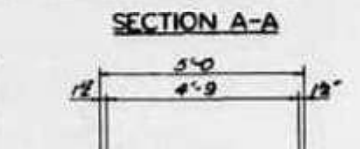
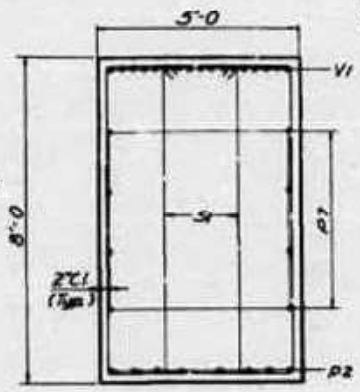
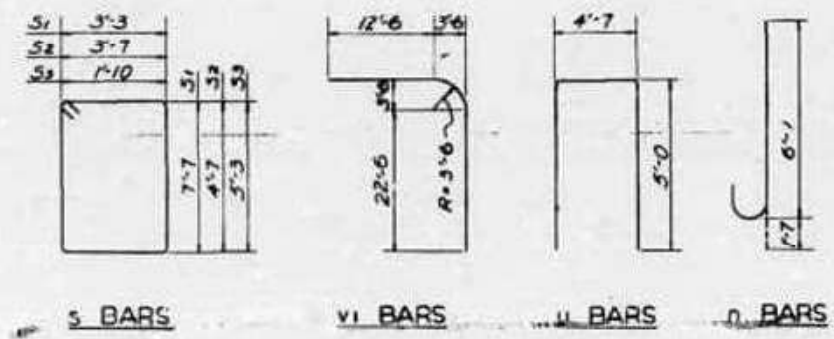
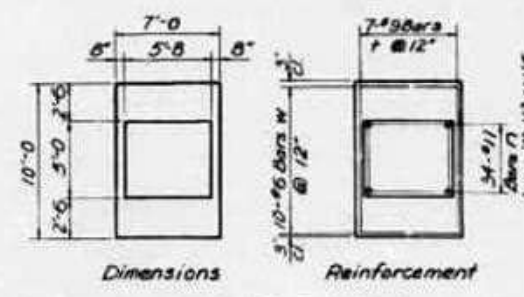
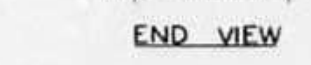
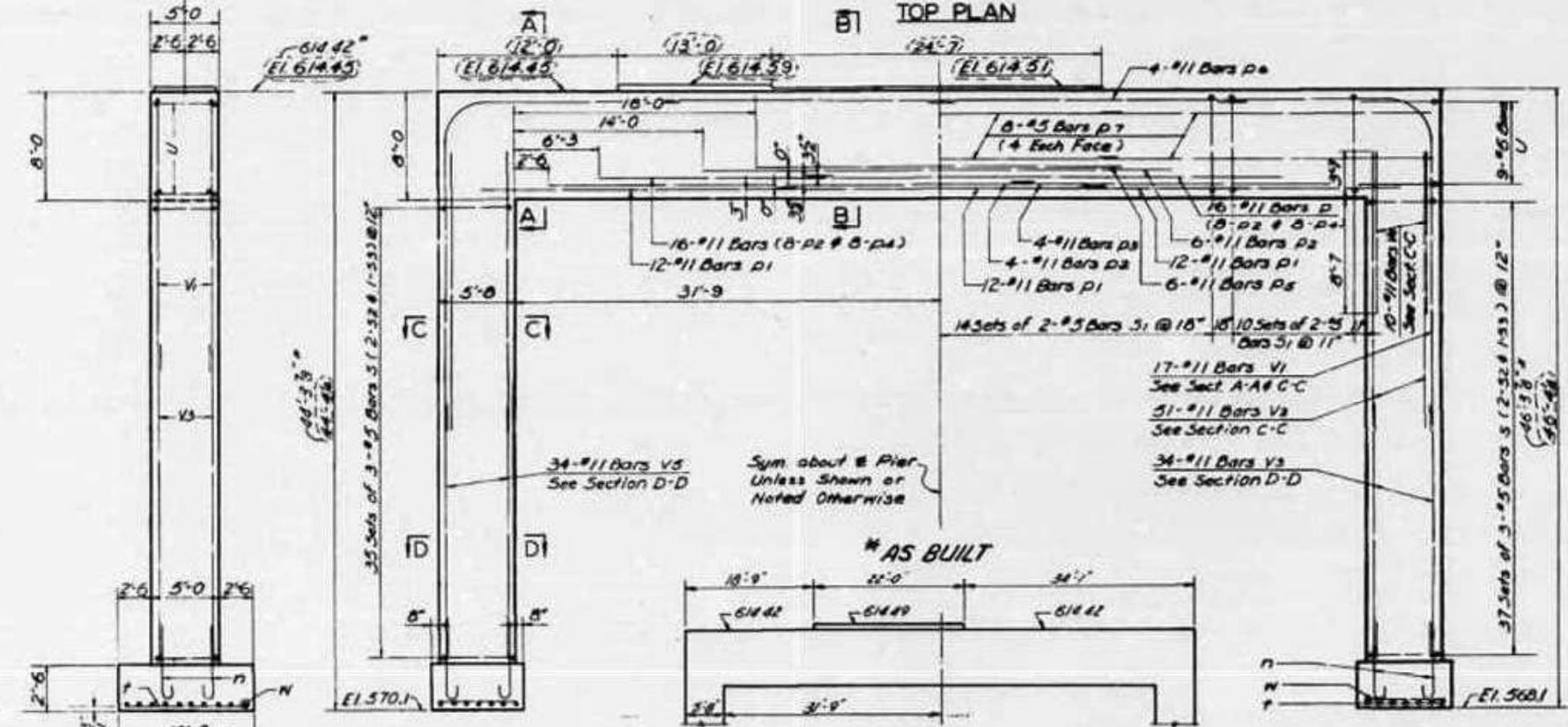
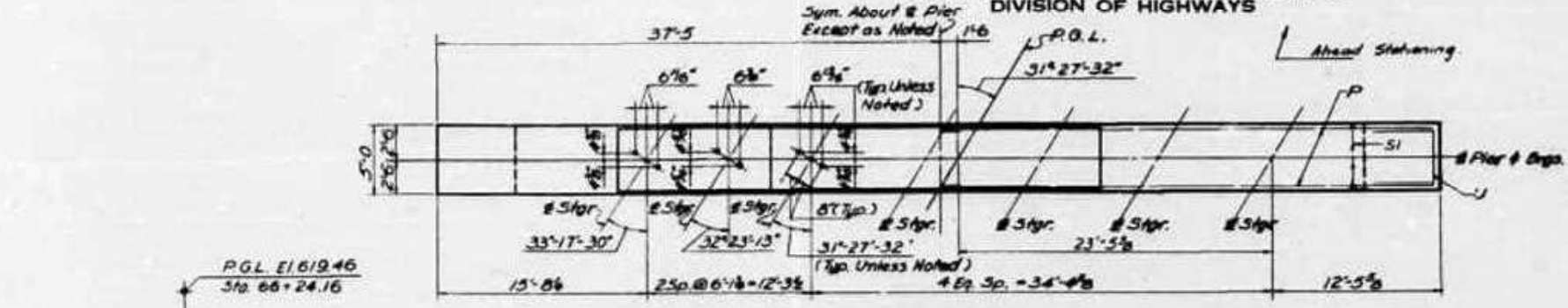
ILLINOIS FED. AID PROJECT

WSP USA Inc.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

USER NAME	USCP702533	DESIGNED	-	REVISED	-
DRAWN	J.P.S. & J.T.L.	CHECKED	-	REVISED	-
PLOT SCALE	7:11,99616"/in.	CHECKED	-	REVISED	-
PLOT DATE	4/22/2025	DATE	-	REVISED	-

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

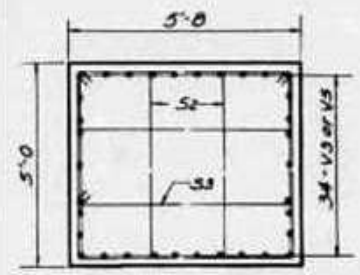
DATE	NO.	BY	CHKD.	APP.	SHEET NO. 7
11/13/19	197	119			12 SHEETS



BILL OF MATERIAL

Bar No.	Size	Length	Shape
p1	3/8	25'-8"	
p2	20	36'-0"	
p3	4	26'-1"	
p4	16	18'-7"	
p5	6	27'-6"	
p6	8	24'-10"	
p7	24	25'-7"	
s1	9/8	22'-8"	□
s2	1/4	17'-4"	□
s3	7/8	15'-2"	□
u	14	9'-6"	
u	18	14'-7"	
v1	3/4	40'-6"	L
v2	102	21'-7"	
v3	3/4	22'-8"	
v4	20	12'-2"	
v5	3/4	20'-8"	
w	20	6'-6"	
n	6/8	7'-8"	C

CLASS A EXC. FOR STR. CU. YDS. 25'
CLASS X CONCRETE CU. YDS. 1718
REINF. BARS LBS. 52560
ROCK EXCAVATION CU. YDS. 114



DESIGNED	G. F.
CHECKED	J. T. L.
DRAWN	J. J. H.
CHECKED	L. D.

PIER NO. 2
F.A. ROUTE 61 OVER F.A. ROUTE 80
F.A. ROUTE 61 STA. 66+24.16
SECTION 10-STR. 5
WILL COUNTY
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



USER NAME = USCP702533
DESIGNED -
DRAWN -
CHECKED -
DATE -

DESIGNED -
DRAWN -
CHECKED -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

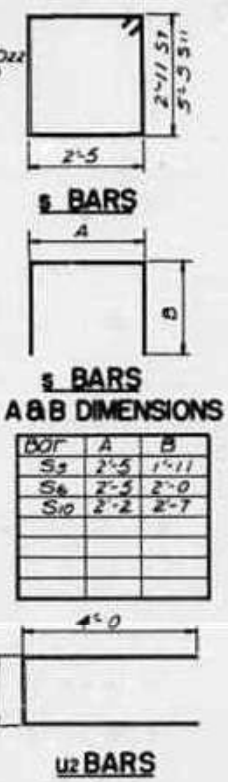
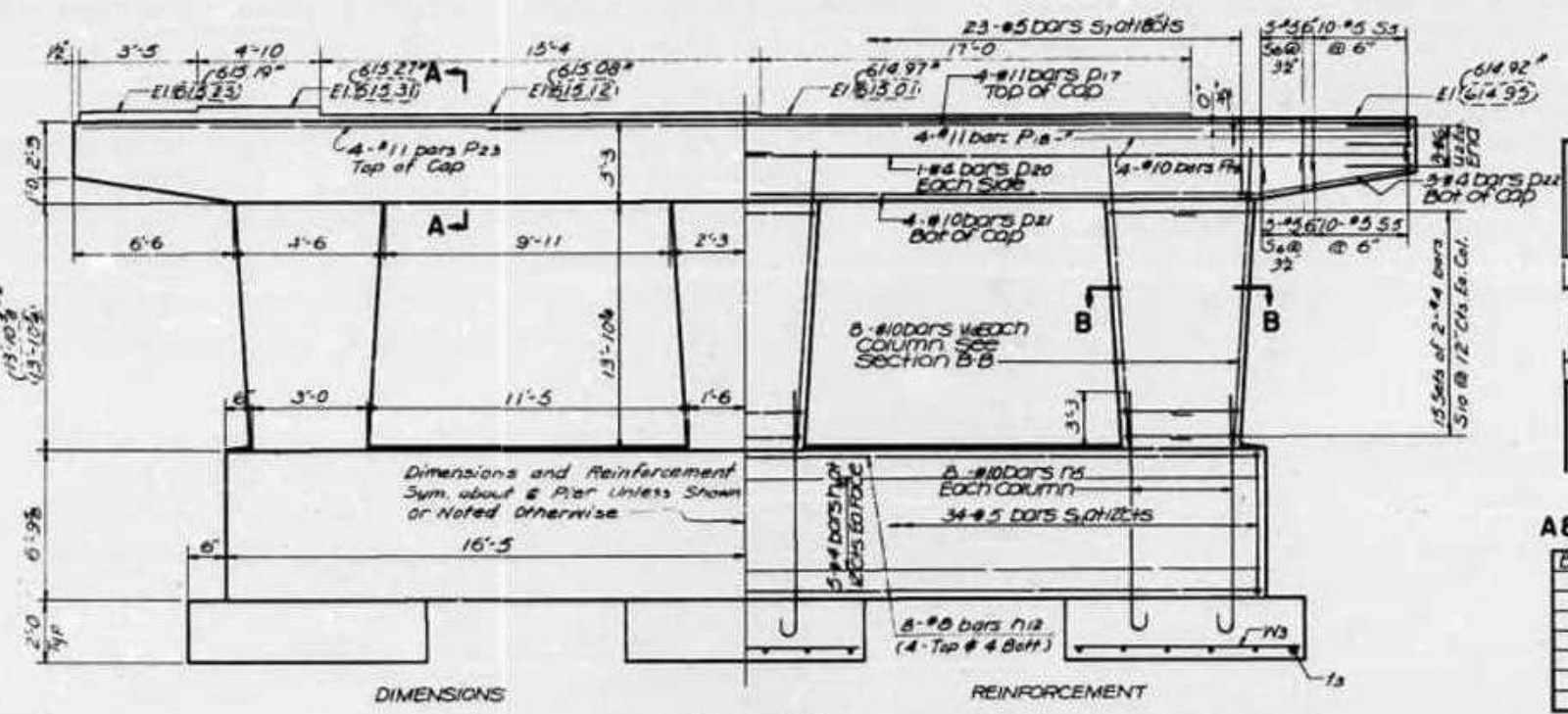
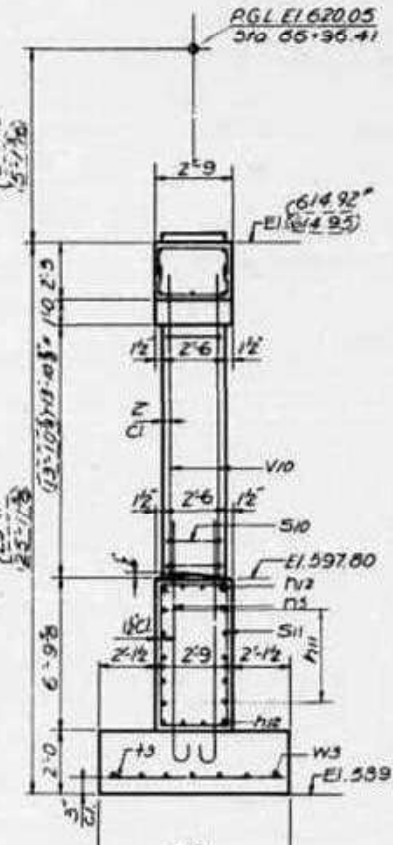
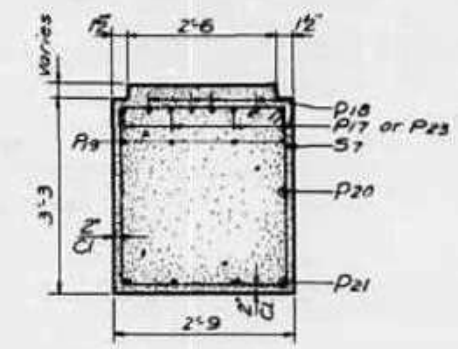
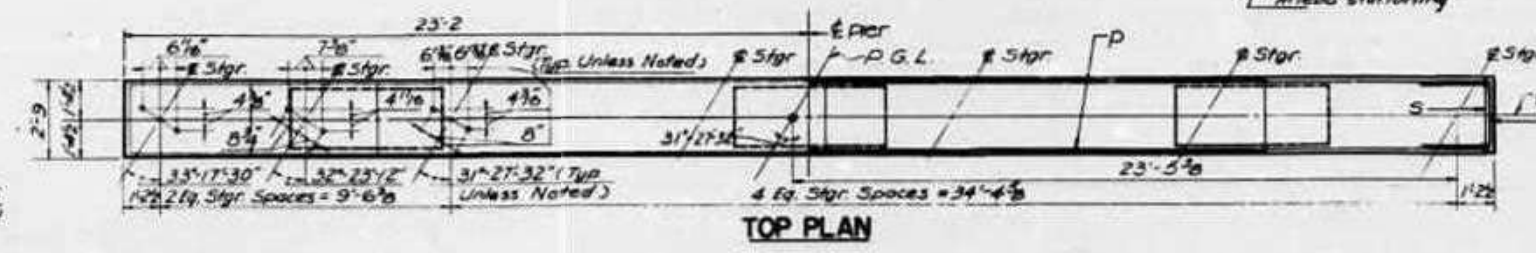
SHEET 46 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	866

CONTRACT NO. 62R22
ILLINOIS FED. AID PROJECT

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

DATE	NO.	BY	CHKD.	APP.	SHEET NO. 8 12 SHEETS
11/20/64	173	WILL	197	130	

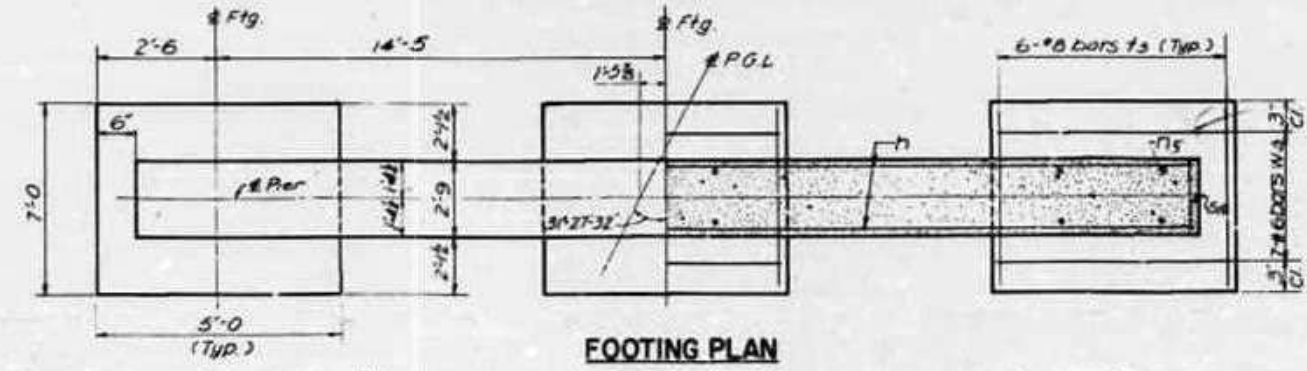
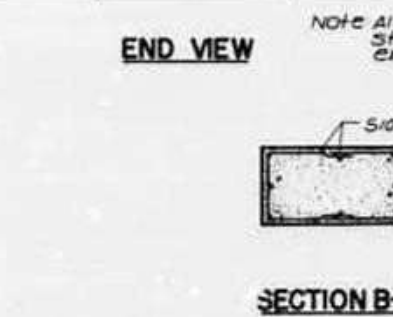


PIER BILL OF MATERIAL

BOF	NO	SIZE	Lght	Shape
n11	10	#4	32'-6	—
n12	8	#6	32'-6	—
n15	24	#10	13'-1	—
P17	4	#11	31'-0	—
P18	8	#11	13'-4	—
P19	8	#10	11'-9	—
P20	4	#4	23'-0	—
P21	4	#10	33'-0	—
P22	6	#4	6'-9	—
P23	4	#11	17'-9	—
S5	40	#5	6'-3	□
S6	20	#5	6'-3	□
S7	23	#5	11'-8	□
S10	90	#4	7'-4	□
S11	34	#5	16'-8	□
T3	18	#6	6'-6	—
U2	6	#6	10'-5	—
V10	24	#10	17'-0	—
W3	21	#6	4'-6	—

BOF	A	B
S5	2'-5	1'-11
S6	2'-5	2'-0
S10	2'-2	2'-7

CLASS	CONCRETE	CU YDS	604
Reinf. BARS	—	—	8150
Rock Excavation	—	—	9
Class A Excavation	—	—	51



DESIGNED	G. F.
CHECKED	J. T. L.
DRAWN	J. H.
CHECKED	L. D.

PIER NO. 3
F A ROUTE 61 OVER F A I ROUTE 80
F A ROUTE 61 STA 66+24.16
F A ROUTE 81 SECTION 10 (STR. 5) PROJECT
Scale: No Scale Date: Nov. 30, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
NEW YORK, N. Y.

* Rev Pier Elevations (Height of Column) + 28.66 L.W.
1.2.2 As Awarded
11-20-64 173 Rev. class A exc. from 40 to 51 cu yds. Rock exc. from 7 to 9 cu yds.

FOR INFORMATION ONLY



USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	REVISIONS	-	REVISIONS	-
CHECKED	-	REVISIONS	-	REVISIONS	-
DATE	-	REVISIONS	-	REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

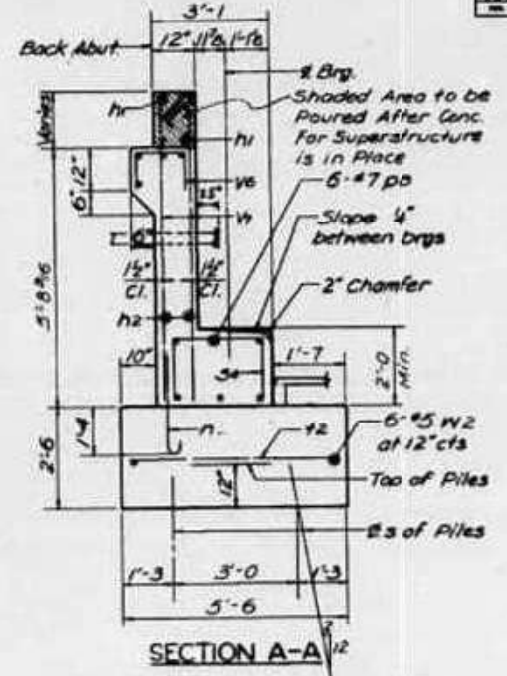
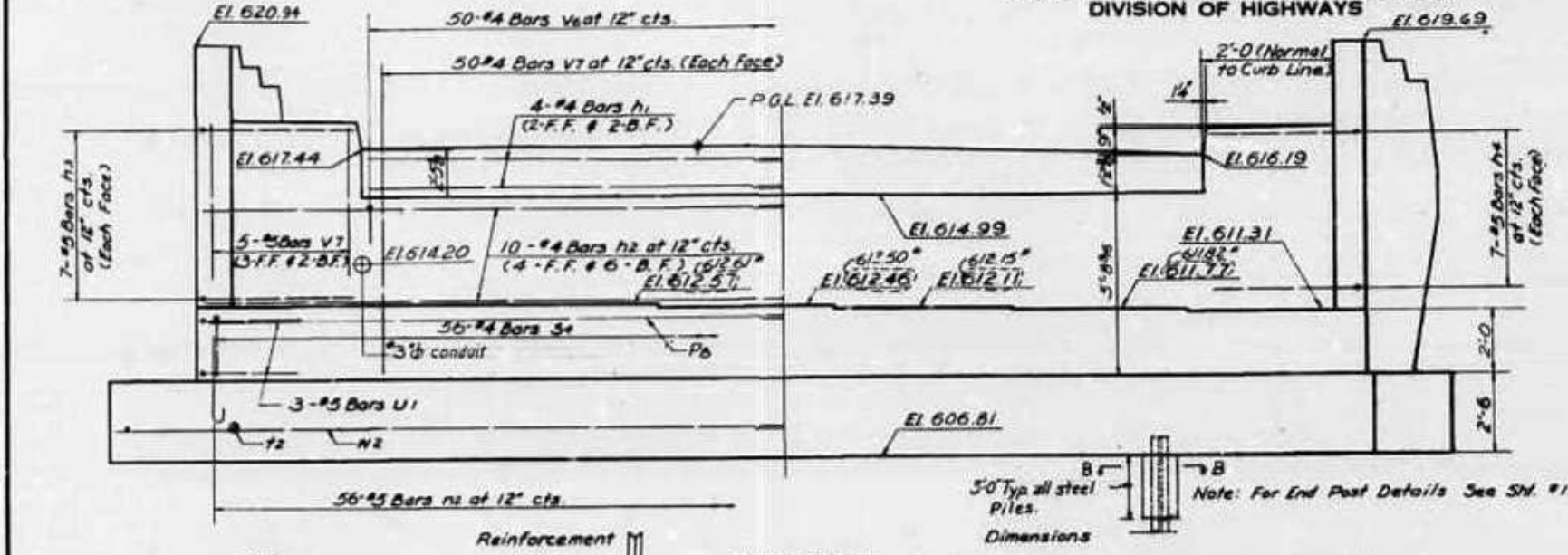
EXISTING BRIDGE PLANS
SHEET 47 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	867

CONTRACT NO. 62R22
ILLINOIS FED. AID PROJECT

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

DATE	BY	CHKD	APP'D	SHEET NO. 9
11/20/11	J.P.S.	L.D.		12 SHEETS



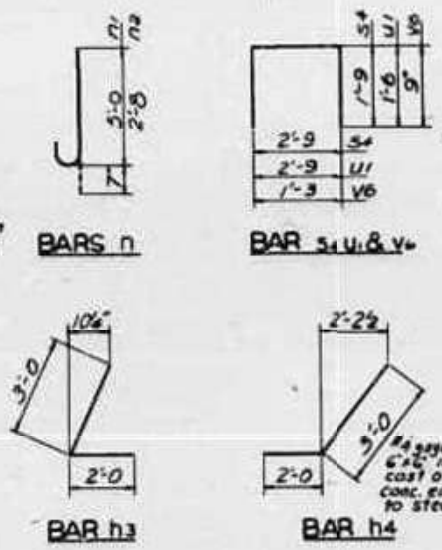
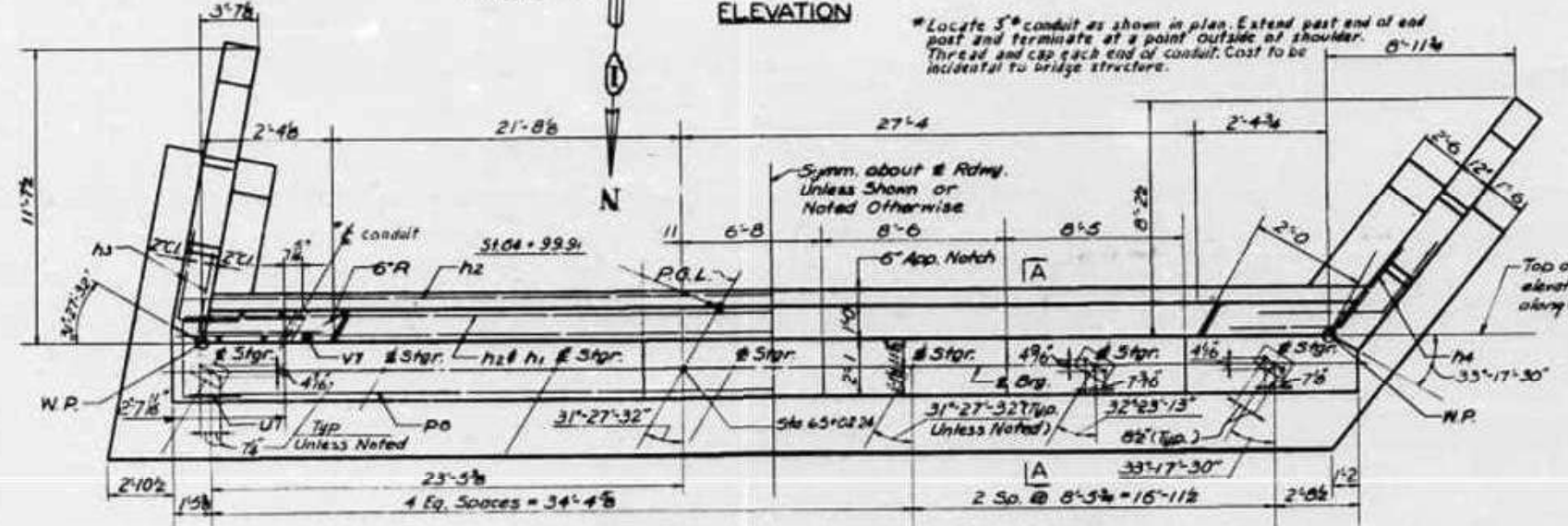
BILL OF REINFORCEMENT

Bar No.	Size	Length	Shape
h1	8	24'-10	—
h2	20	28'-1	—
h3	14	5'-0	—
h4	14	5'-0	—
n1	28	5'-7	—
n2	56	3'-3	—
v1	17	4'-6	—
v2	56	5'-0	—
u1	6	5'-9	—
v6	50	2'-9	—
v7	110	6'-8	—
u2	12	28'-11	—

BILL OF MATERIAL

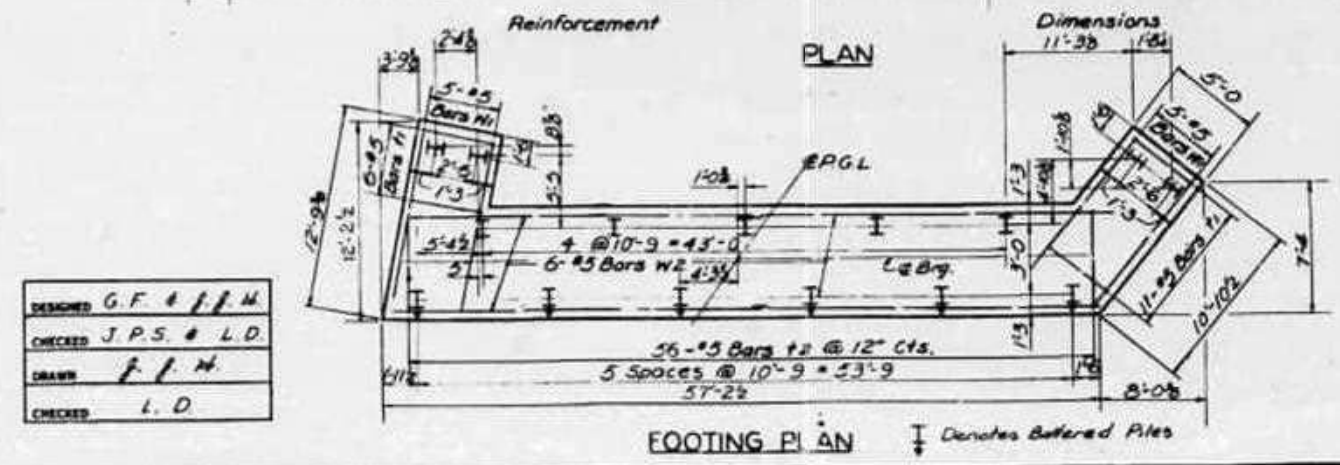
Item	Unit	Quan.
Class X Concrete	Cu. Yds	73.3
Reinforcement Bars	Lbs	3,960
Steel Piles (10BP42)	Ln. Ft.	252
Test Pile (10BP42)	Each	1

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



PILE DATA

Type: Steel 10BP42
Capacity: Reflexal
Est. Length: 15 Feet
No. Req'd: 13+1 Test Pile



DESIGNED	G.F. & J.P.S.
CHECKED	J.P.S. & L.D.
DRAWN	F.I.H.
CHECKED	L.D.

S ABUTMENT
FA ROUTE 61 OVER FAI ROUTE 80

FA ROUTE 61 STA 66+24.16
SECTION 10 - STR. 5
WILL COUNTY
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



USER NAME = USCP702533
DESIGNED -
DRAWN -
PLOT SCALE = 7:11,99616''/in.
CHECKED -
DATE -

REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

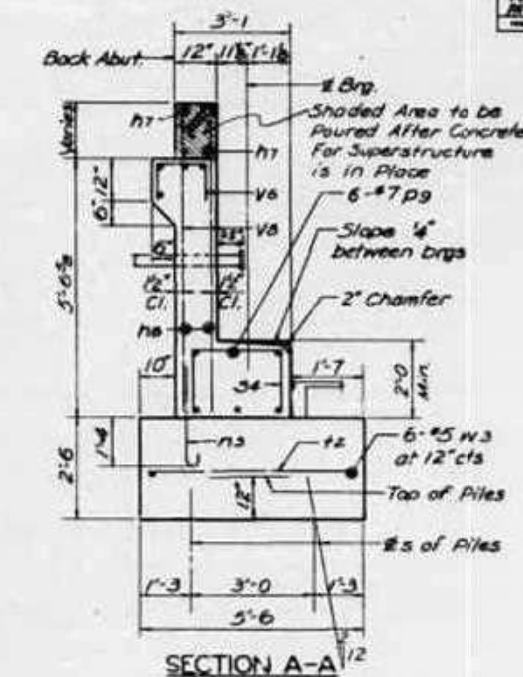
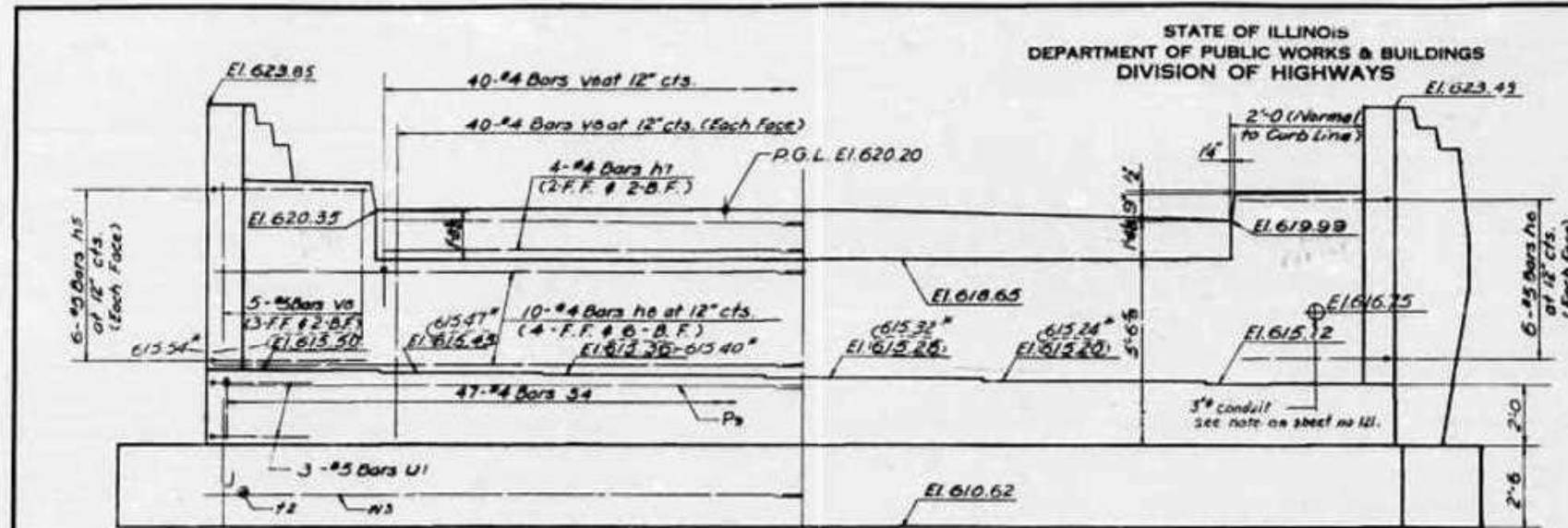
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 48 OF 62 SHEETS

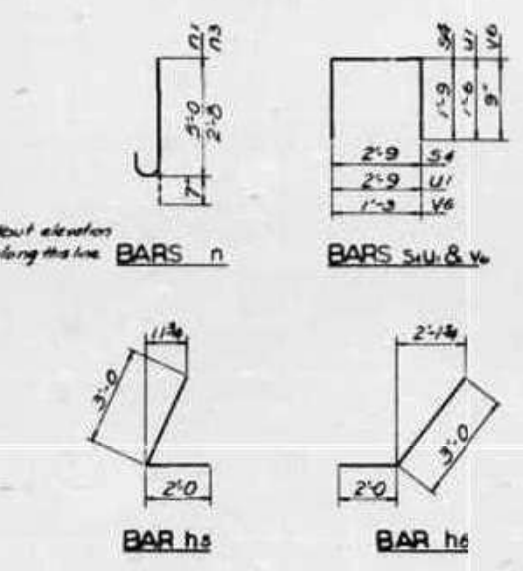
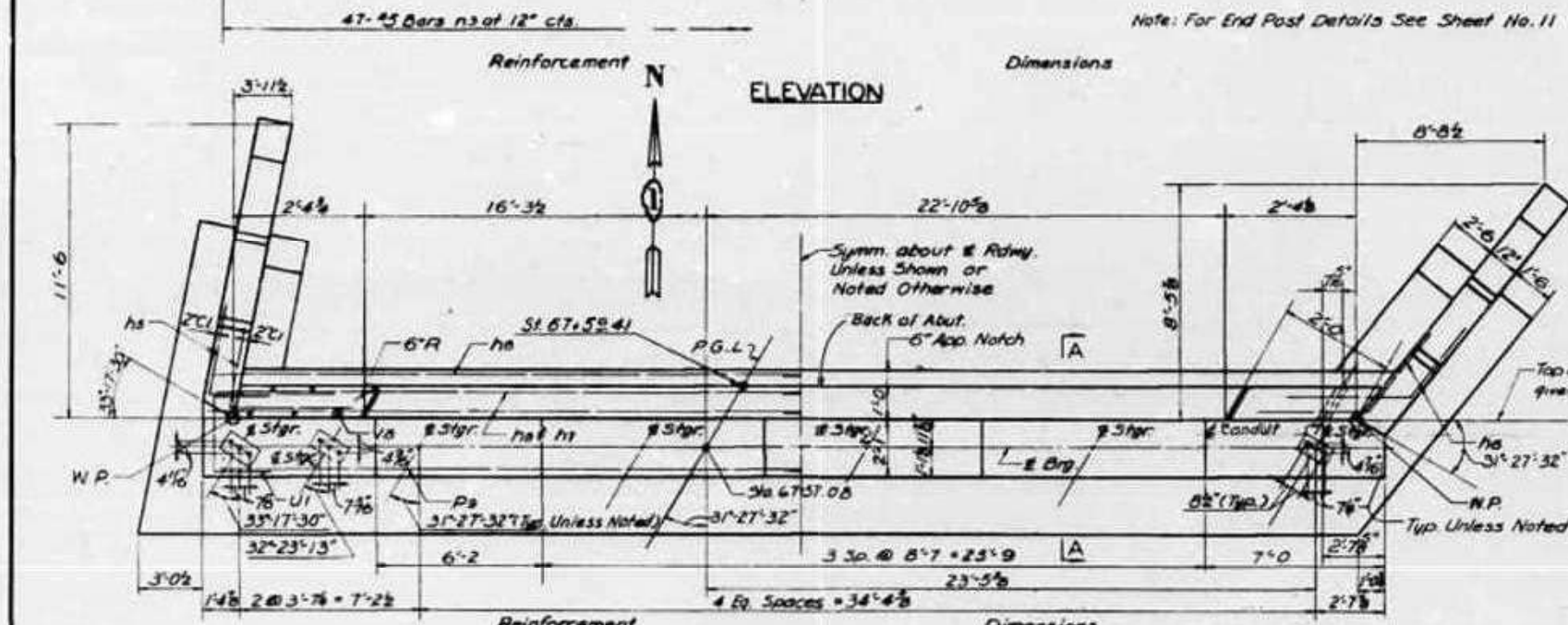
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	868
				CONTRACT NO. 62R22

ILLINOIS FED. AID PROJECT



BILL OF REINFORCEMENT

Bar No.	Size	Length	Shape
n3	12	5'-0"	┌
h6	12	5'-0"	└
h7	8	19'-11"	—
h8	20	4	23'-2"
n1	20	5	5'-7"
n3	47	5	3'-3"
P9	12	7	25'-5"
S4	47	4	6'-3"
T1	17	5	4'-6"
T2	47	5	5'-0"
U1	6	5	5'-9"
V6	40	4	2'-9"
V8	90	4	6'-7"
W1	10	5	10'-4"
W3	12	5	24'-1"

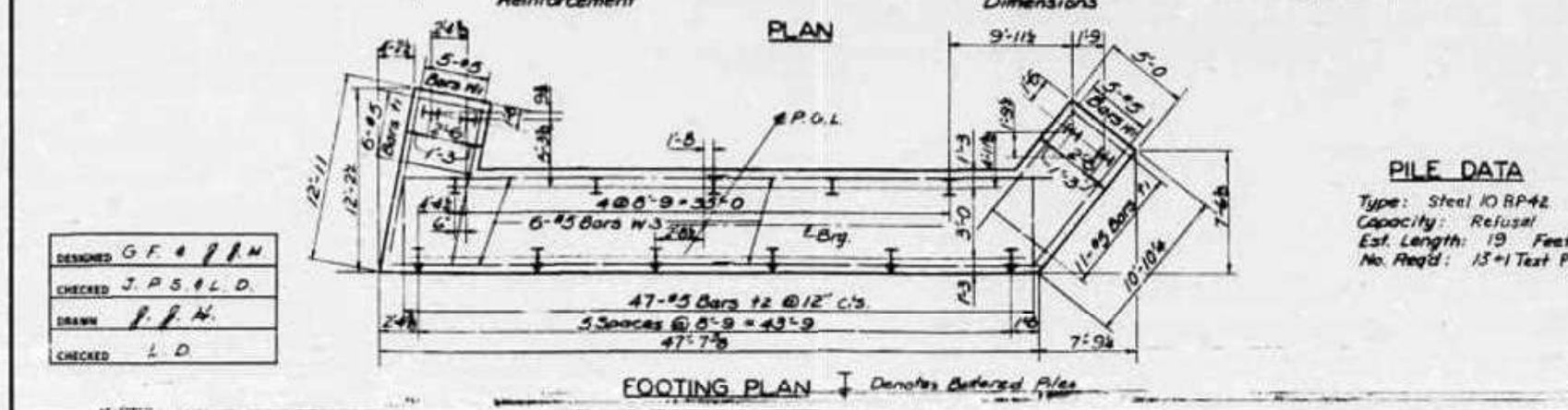


BILL OF MATERIAL

Item	Unit	Quan.
Class X Concrete	Cu Yds	60.5
Reinforcement Bars	Lbs	3440
Steel Piles (10BP42)	Lin. Ft.	266
Test Pile (St. 10BP42)	Each	1

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

For All Steel Piles Encasement Details See Sheet No. 181.



PILE DATA
Type: Steel 10BP42
Capacity: Refusal
Est. Length: 19 Feet
No. Req'd: 15+1 Test Pile

DESIGNED	G.F. & J.P.M.
CHECKED	J.P.S. & L.D.
DRAWN	J.P.M.
CHECKED	L.D.

N. ABUTMENT
FA ROUTE 61 OVER FAI ROUTE 80
FA ROUTE 61 STA. 66+24.16
SECTION 10 - STR. 5
WILL COUNTY
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

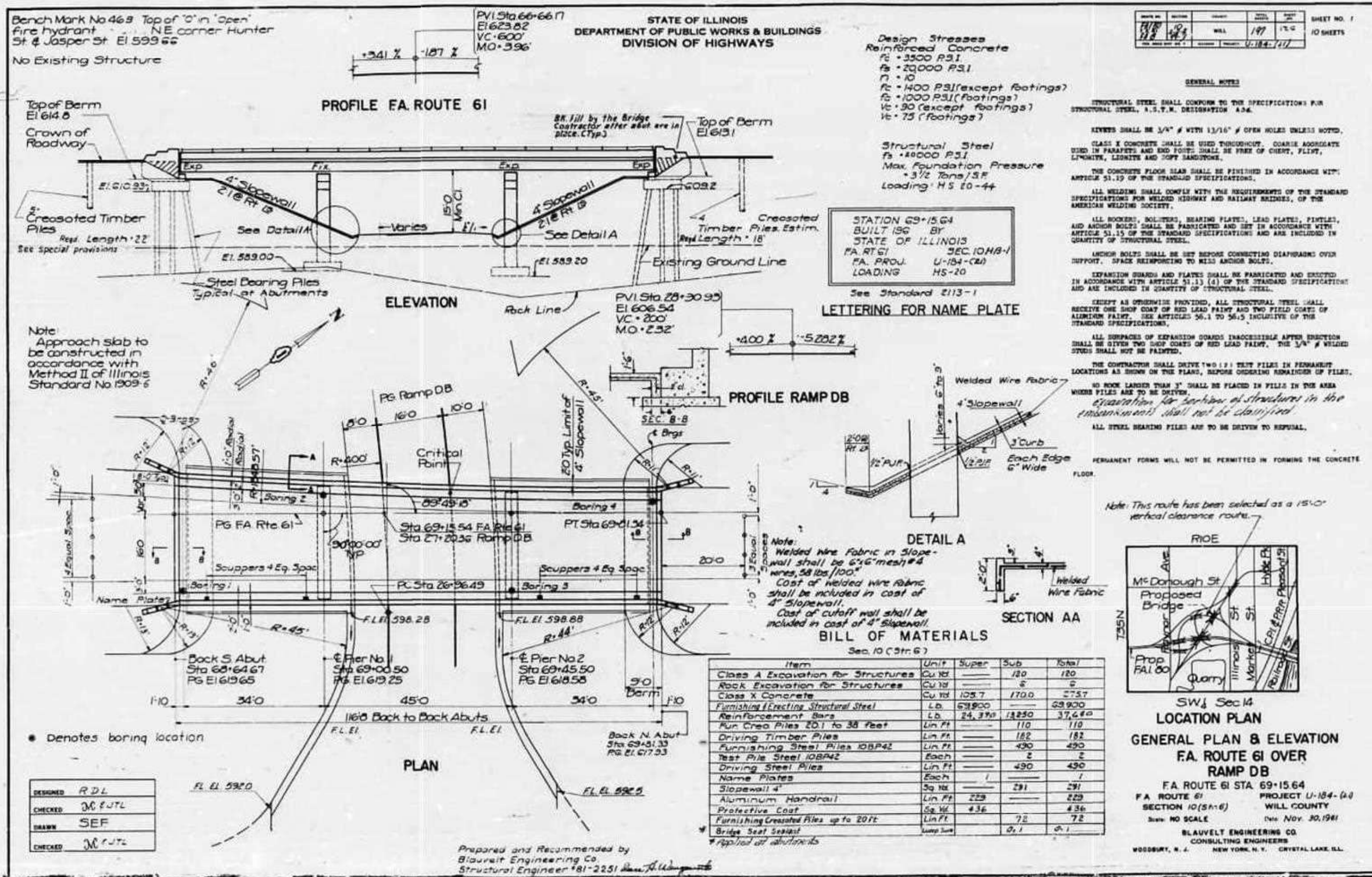
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DRAWN	-	DRAWN	-	REVISED	-
PLOT SCALE	= 7:11,99616 "/in.	CHECKED	-	REVISED	-
PLOT DATE	= 4/22/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SHEET 49 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	869
				CONTRACT NO. 62R22

ILLINOIS FED. AID PROJECT



Design Stresses
 Reinforced Concrete
 $f_c = 3500$ PSI
 $f_s = 20000$ PSI
 $n = 10$
 $f_c = 1400$ PSI (except footings)
 $f_c = 1000$ PSI (footings)
 $f_c = 90$ (except footings)
 $f_c = 75$ (footings)

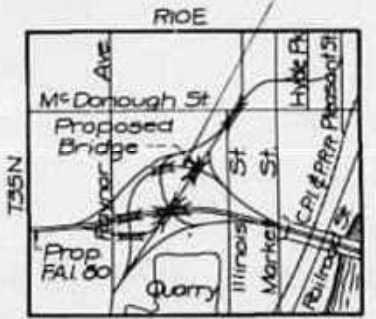
Structural Steel
 $f_s = 40000$ PSI
 Max. Foundation Pressure
 = 3/2 Tons/SF
 Loading HS 10-44

STATION 69+15.64
 BUILT 196 BY
 STATE OF ILLINOIS
 FA. PROJ. SEC. 10A-B-1
 U-184-(24)
 LOADING HS-20
 See Standard 213-1

LETTERING FOR NAME PLATE

BILL OF MATERIALS
 Sec. 10 (Str. 6)

Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu Yd		120	120
Rock Excavation for Structures	Cu Yd		5	5
Class X Concrete	Cu Yd	105.7	170.0	275.7
Furnishing Erecting Structural Steel	Lb.	628,900		628,900
Reinforcement Bars	Lb.	24,390	12,250	37,640
Run Crea Piles 20' to 38' feet	Lin Ft		110	110
Driving Timber Piles	Lin Ft		182	182
Furnishing Steel Piles 10BP42	Lin Ft		490	490
Test Pile Steel 10BP42	Each		2	2
Driving Steel Piles	Lin Ft		490	490
Name Plates	Each		1	1
Slopewall 4'	Sq Yd		291	291
Aluminum Handrail	Lin Ft	229		229
Protective Coat	Sq Yd	436		436
Furnishing Cressed Piles up to 20' ft	Lin Ft		72	72
Bridge Seat Assist	Lump Sum		0.1	0.1



SW 1/4 Sec 14
LOCATION PLAN
GENERAL PLAN & ELEVATION
FA. ROUTE 61 OVER
RAMP DB
 FA. ROUTE 61 STA. 69+15.64
 SECTION 10(S-16) PROJECT U-184-(24)
 WILL COUNTY
 Scale: NO SCALE Date: NOV. 30, 1981
BLAUVELT ENGINEERING CO.
 CONSULTING ENGINEERS
 WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

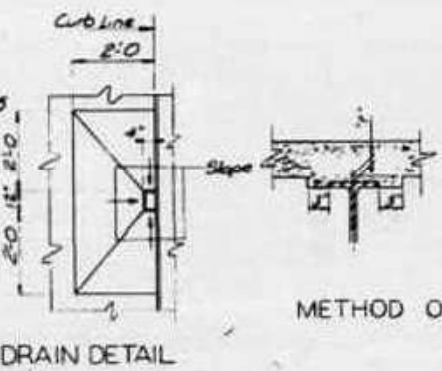
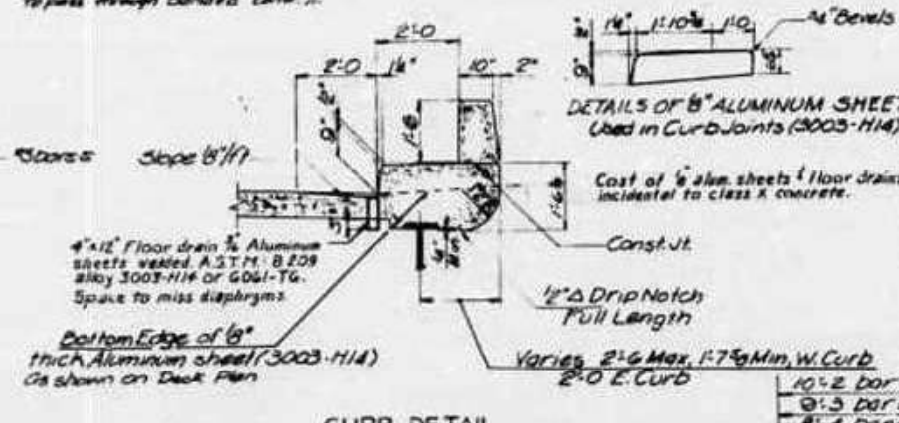
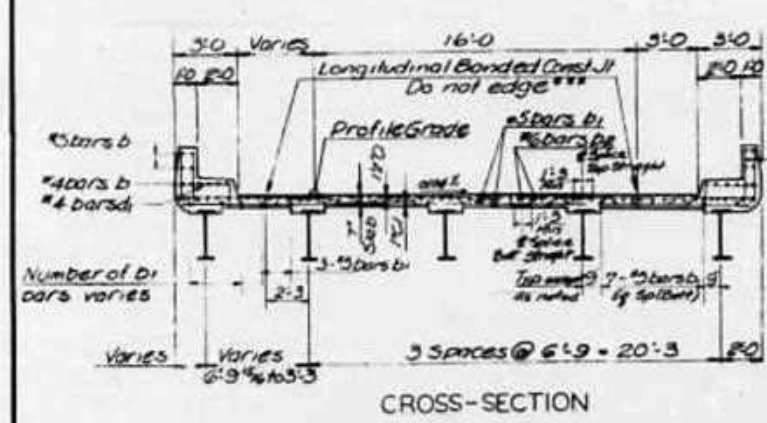
DESIGNED RDL
 CHECKED J.C. FJTL
 DRAWN SEF
 CHECKED J.C. FJTL

Prepared and Recommended by
 Blauvelt Engineering Co.
 Structural Engineer #81-2251

FOR INFORMATION ONLY

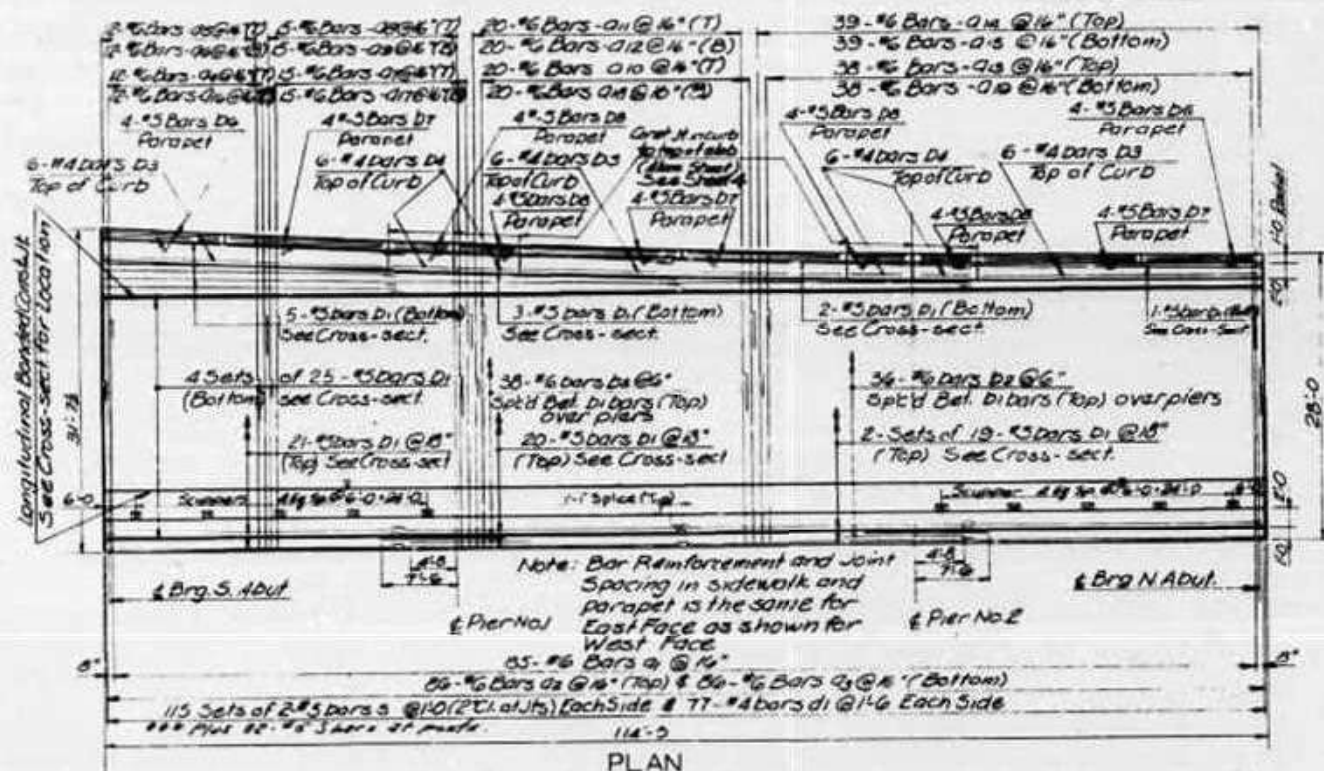
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	BY	CHKD	NO.	SHEET NO. 2
11/17/22	JTL	AME	197	176
PROJECT				19 SHEETS



After all structural steel has been erected elevations of the top flanges of the beams shall be taken at intervals shown on the D.L. Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus fillet thickness equals fillet heights above top of beams.

METHOD OF DETERMINING FILLET HEIGHT 't'



BARS d

10'-2 Bar 94
9'-3 Bar 97
8'-4 Bar 99
7'-5 Bar 93

BARS d, & s

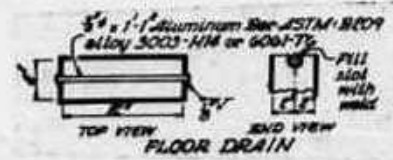
12'-9 Bar 916
11'-10 Bar 917
10'-11 Bar 918
10'-0 Bar 919

BAR 51

3'-6
9'-2

BILL OF REINFORCEMENT

Bar No	Size	Length	Shops
01	05	6	24'-1
02	06	6	12'-1
03	06	6	16'-0
04	12	6	10'-2
05	12	6	20'-0
06	12	6	10'-7
07	15	6	8'-3
08	15	6	19'-1
09	15	6	15'-8
10	20	6	8'-4
11	20	6	18'-2
12	20	6	14'-9
13	38	6	7'-5
14	38	6	17'-3
15	38	6	13'-0
16	12	6	12'-9
17	15	6	11'-0
18	20	6	10'-11
19	38	6	10'-0
20	190	3	29'-4
21	74	6	12'-8
22	24	4	28'-1
23	48	4	6'-1
24	12	4	31'-10
25	16	5	12'-0
26	32	5	13'-9
27	32	5	6'-1
d1	144	4	3'-9
s	524	5	2'-10
51	3	4	3'-7



Class 'X' Concrete	Cu. Yd.	105.7
Reinforcement Bars	Lbs.	24,370
Structural Steel	Lbs.	4990

Structural Steel includes weight of Rockers, Bolsters, Bearing Plates, Lead Plates, Pinches and Anchor Bolts.
Estimated Weight = 4990

BILL OF MATERIALS

Cost of furnishing and installing drains and aluminum sheets shall be incidental to the contract.

ELEVATIONS-TOP OF SLAB

Station	1	2	3	4	5	6	7	8	9	10	11
A	619.71	619.60	619.49	619.31	619.17	619.03	618.87	618.73	618.55	618.26	618.00
B	619.64	619.34	619.42	619.25	619.12	618.97	618.82	618.58	618.41	618.23	617.96
C	619.37	619.47	619.33	619.19	619.05	618.90	618.75	618.51	618.34	618.15	617.89
D	619.50	619.40	619.28	619.11	618.93	618.83	618.68	618.44	618.27	618.08	617.82
E	619.43	619.33	619.21	619.04	618.91	618.76	618.61	618.37	618.20	618.01	617.75

See Sheet No. 3 for Location of Points
** Where Curb is over stringer, Elevation shown is that of the projection of top of slab along its cross slope

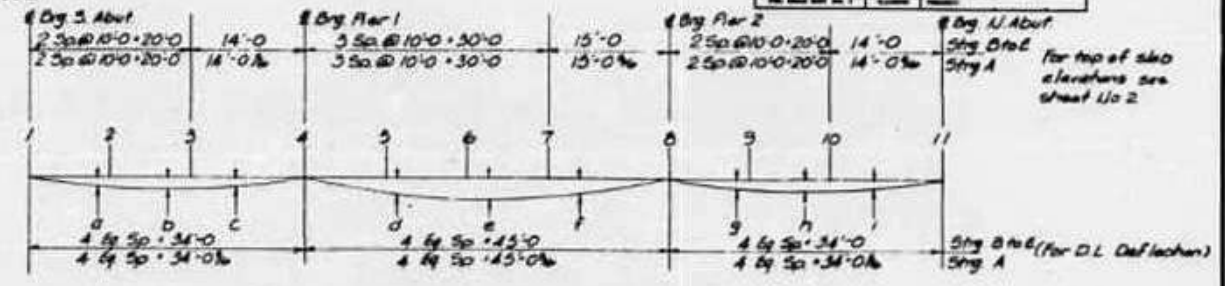
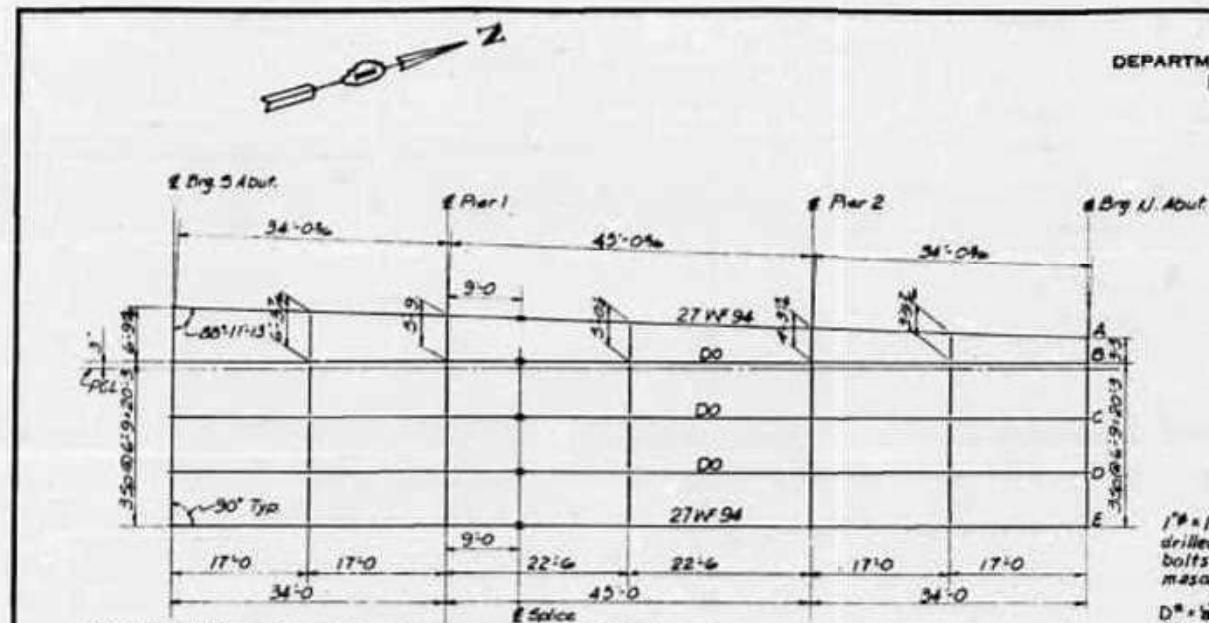
DESIGNED	AME
CHECKED	JTL
DRAWN	AME
CHECKED	JTL

SLAB PLAN & CROSS-SECTION

FA ROUTE 61 OVER RAMP DB

FA RTE. 61 STA. 69+15.64
PROJECT
SECTION 10 (STR. 86) WILL COUNTY
Scale NO SCALE Date Nov 50 '61
BLAUVELT ENGINEERING CO.
INSULATING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



DEAD LOAD DEFLECTION DIAGRAM

NOTES

1" x 12" Anchor Bolts to be grouted into drilled holes after beams are in place, or bolts at fixed pier may be built into the masonry.
 D¹ = 1/1000 ft. of expan. for every 15° below the normal temp. of 50°F.
 D² = 1/100 ft. of expan. for every 15° above the normal temp. of 50°F.

DEAD LOAD DEFLECTIONS (inches)

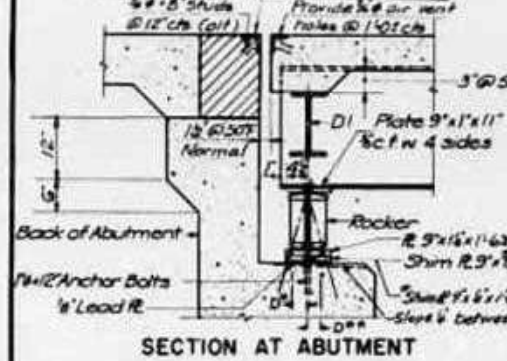
Strg	Pt.	a	b	c	d	e	f	g	h	i
A & E	3/2	b	3/2	3/2	3/2	4	3/2	3/2	b	3/2
B to D	1/2	3/2	3/2	3/2	3/2	3/2	3/2	3/2	3/2	1/2

* Due to the weight of slab only

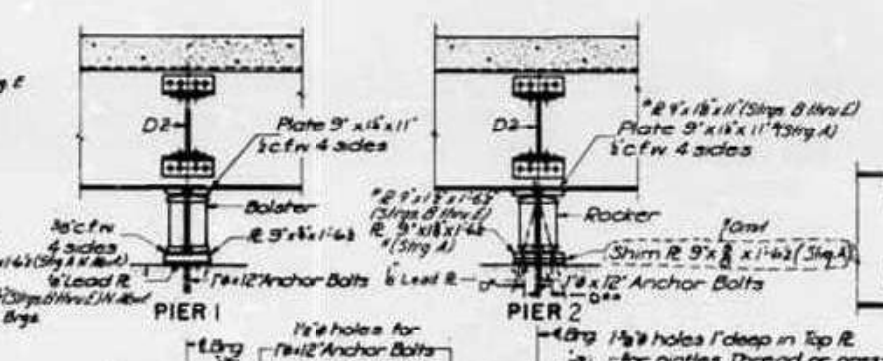
Angles shall be held securely in place while pouring concrete with 1/2" bolts in 1/2" holes set on gage line @ 12" c/c. All bolts shall be burned, sawed or clipped flush with back of angles after forms are removed.

FRAMING PLAN

Note:
All End Diaphragms Type D-1
All Intermediate Diaphragms Type D-2

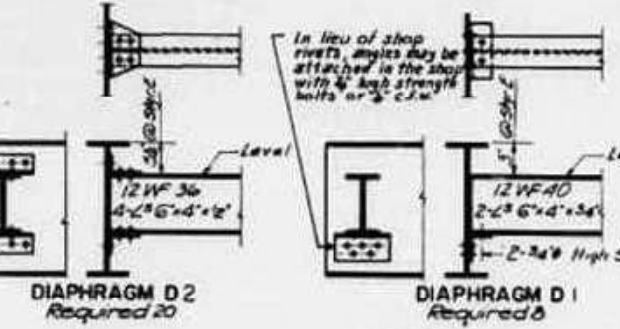


SECTION AT ABUTMENT



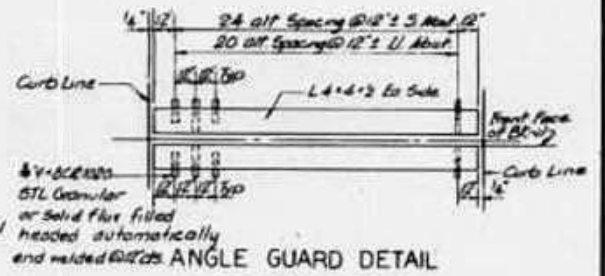
PIER 1

PIER 2



DIAPHRAGM D2 Required 20

DIAPHRAGM D1 Required 8

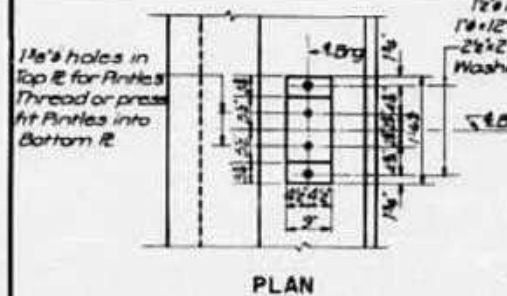


ANGLE GUARD DETAIL

AS AWARDED
TOP OF BEAM ELEVATIONS*

Strg	Pt.	E. 3 Abut	E. Pier 1	E. Splice	E. Pier 2	E. U. Abut
A	619.08	618.60	618.50	618.00	617.57	
B	619.01	618.62	618.50	617.90	617.33	
C	618.94	618.55	618.43	617.88	617.26	
D	618.87	618.48	618.36	617.81	617.19	
E	618.80	618.41	618.29	617.74	617.12	

* These elevations are at top of top flange of stringers exclusive of deflectors and splice plates and are for fabrication of structural steel.



PLAN



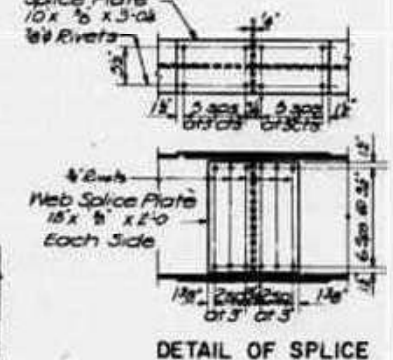
PLAN

PLAN

DETAIL OF PINTLE

DETAIL OF BEARING AT PIER 2 & ABUTMENTS

DETAIL OF BEARING AT PIER 1



DETAIL OF SPLICE

AS BUILT

Strg	Pt.	E. Splice	E. Pier 2	E. U. Abut
A	618.57	617.95	617.57	
B	618.52	617.92	617.35	
C	618.45	617.85	617.28	
D	618.38	617.78	617.21	
E	618.31	617.71	617.14	

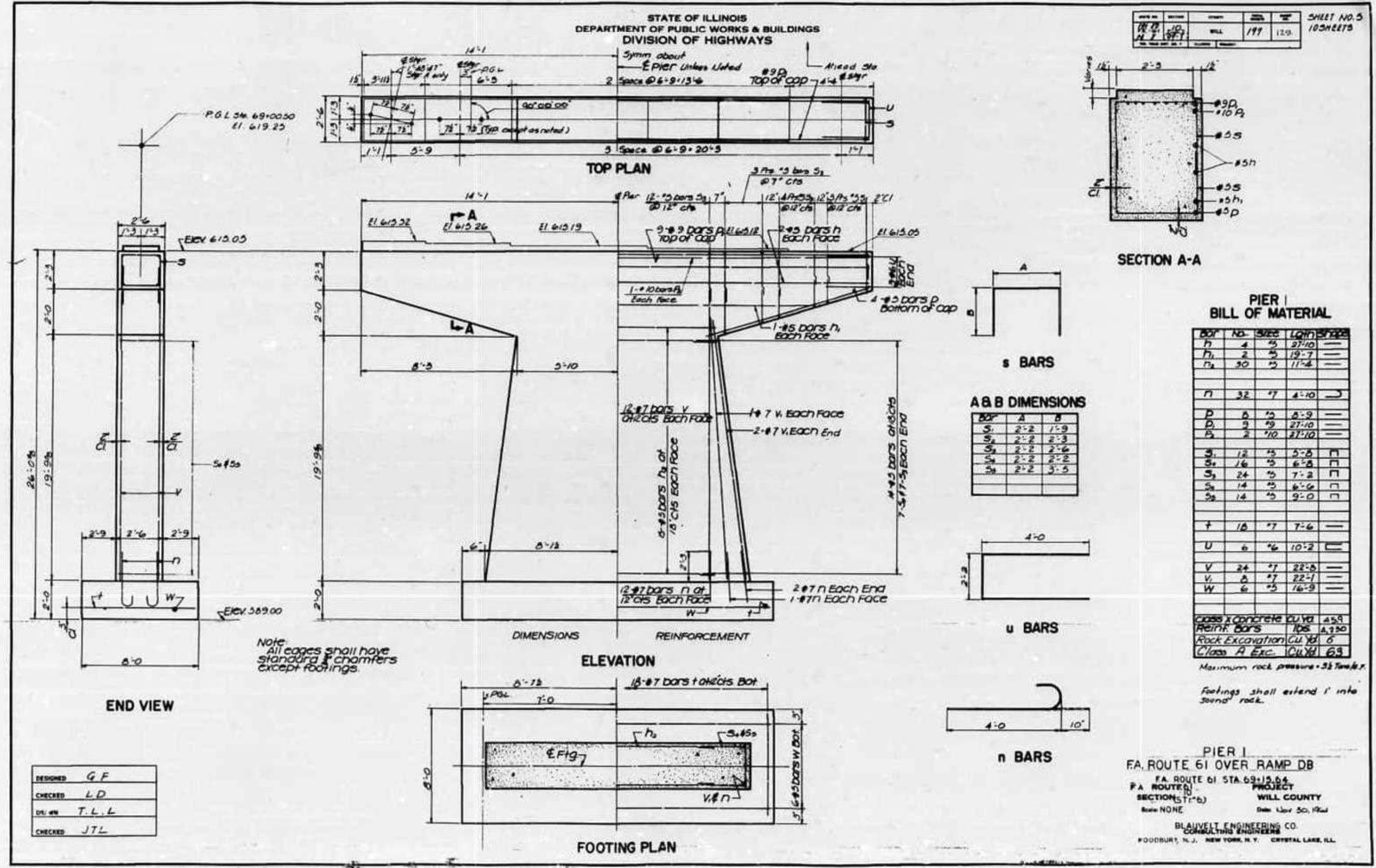
DESIGNED	G.F.
CHECKED	L.D.
DRAWN	T.L.L.
CHECKED	J.T.L.

FRAMING PLAN & STEEL DETAILS
FA. ROUTE 61 OVER RAMP DB
E.A. ROUTE 61 STA. 69+15.64
PROJECT
FA. ROUTE 61 SECTION 10
WILL COUNTY
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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

SHEET NO. 5
103 SHEETS



Note: All edges shall have standard chamfers except footings.

DESIGNED	GF
CHECKED	LD
DR: EN	T.L.L.
CHECKED	JTL

FOR INFORMATION ONLY



USER NAME	= USCP702533	DESIGNED	-	REVISED	-
DRAWN	-	REVISIONS	-	REVISIONS	-
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PLOT DATE	= 4/22/2025	DATE	-	REVISIONS	-

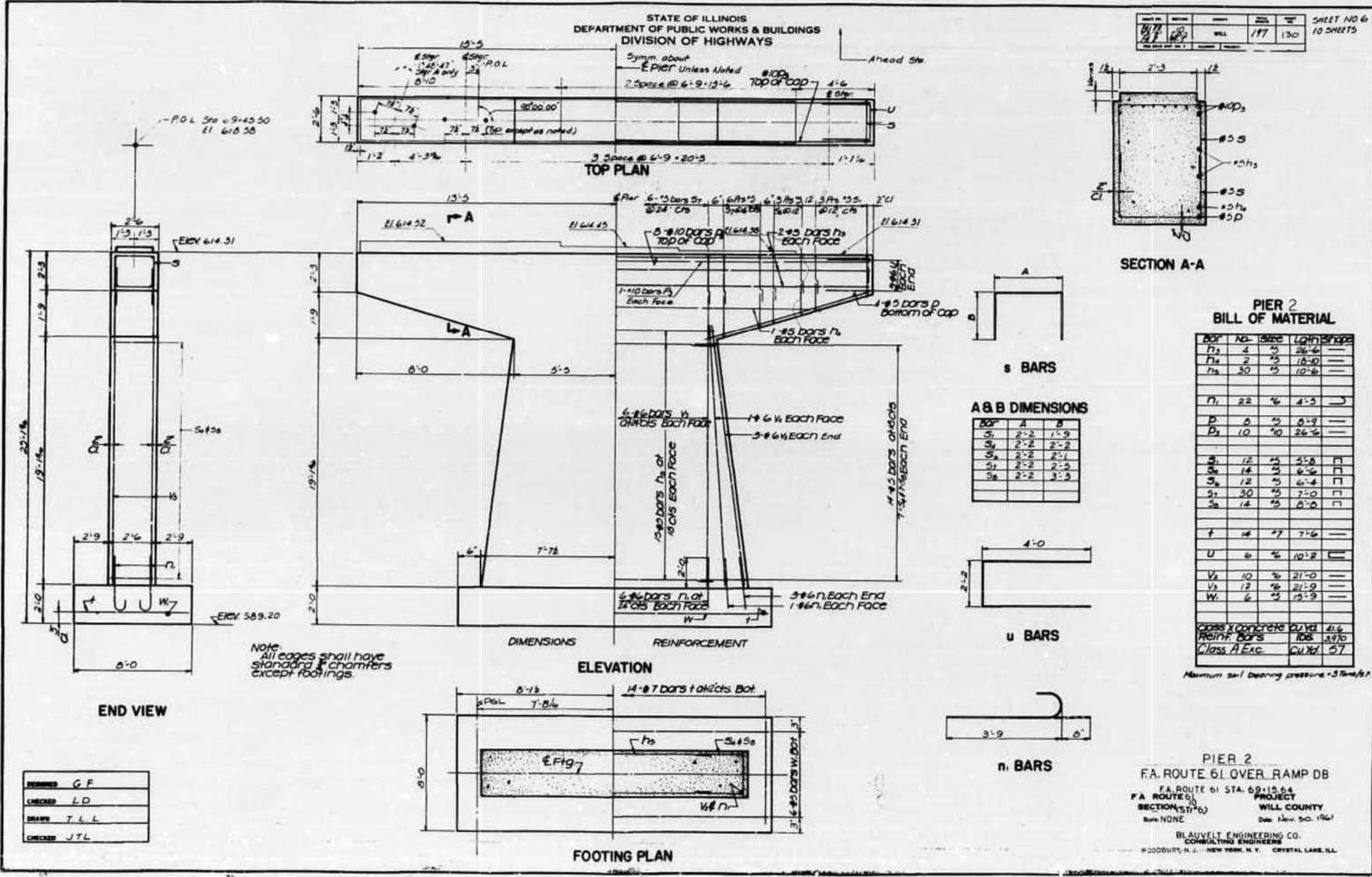
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SHEET 54 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	874
			CONTRACT NO. 62R22	

ILLINOIS FED. AID PROJECT

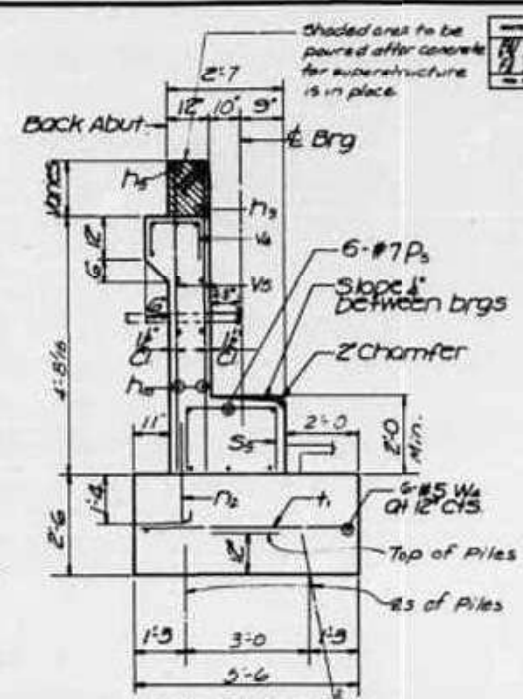
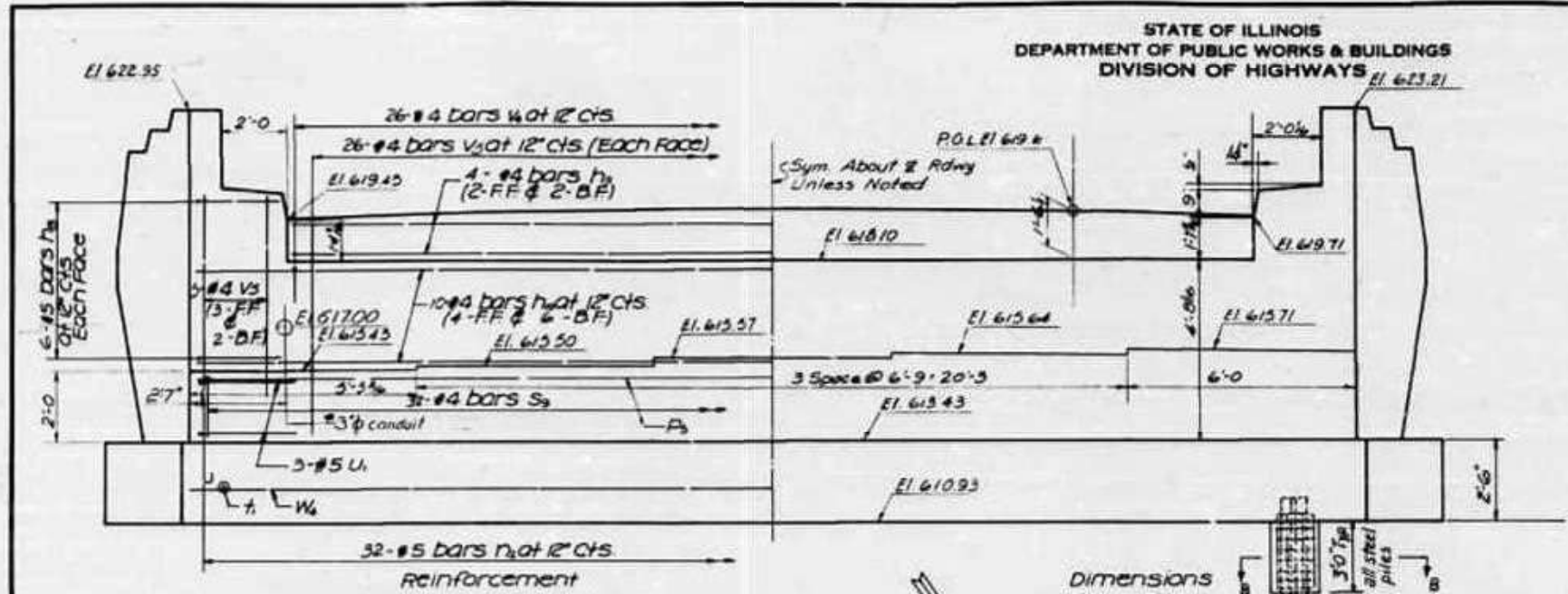
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DESIGNED	GF
CHECKED	LD
DRAWN	TLL
CHECKED	JTL

FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4000 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884	USER NAME = USCP702533 DESIGNED - DRAWN - PLOT SCALE = 7:11,99616 "/>	DESIGNED - REVISIONS - CHECKED - DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS SHEET 55 OF 62 SHEETS	F.A.I. RTE. 80 SECTION FAI 80 21 INTERCHANGE COUNTY WILL PROJECT WILL COUNTY DATE Nov. 30, 1967 BLAUVELT ENGINEERS CO. CONSULTING ENGINEERS WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.	TOTAL SHEETS 1209 SHEET NO. 875 CONTRACT NO. 62R22 ILLINOIS FED. AID PROJECT
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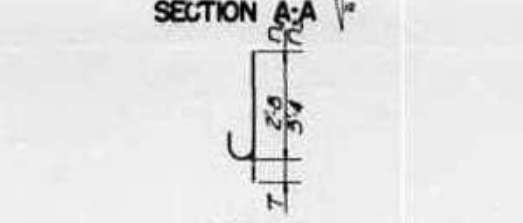
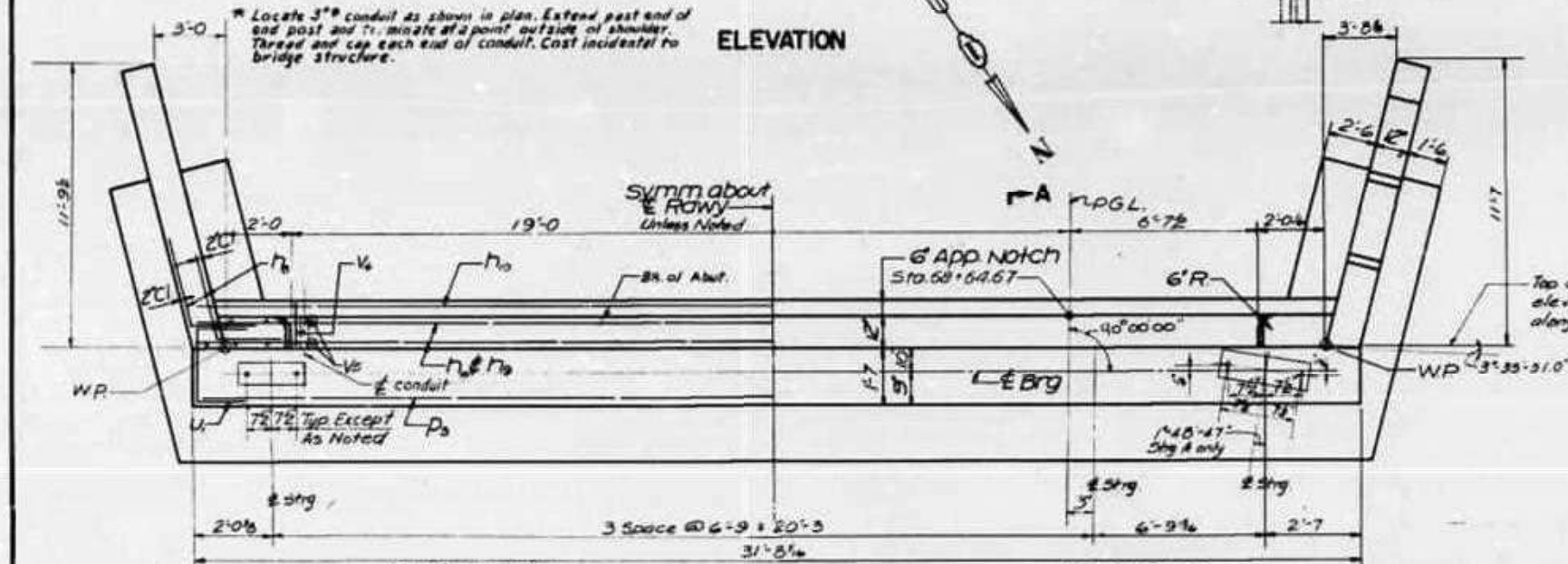
**SOUTH ABUTMENT
BAR LIST**

Bar	NO	SIZE	Lgth	Shape
n ₉	4	#4	25'-4"	—
n ₁₀	10	#2	31'-4"	—
n ₀	24	#5	4'-9"	L
n ₁	32	#5	3'-3"	—
n ₂	28	#5	3'-11"	—
D ₃	6	#7	31'-4"	—
S ₉	32	#4	5'-11"	—
T ₁	33	#5	5'-0"	—
T ₂	24	#5	4'-6"	—
U ₁	6	#5	5'-2"	—
V ₆	26	#4	2'-9"	—
V ₅	62	#2	5'-9"	—
W ₆	10	#5	10'-6"	—
W ₆	6	#5	32'-3"	—

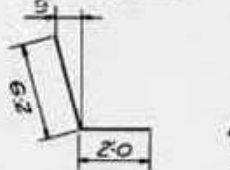
**SOUTH ABUTMENT
BILL OF MATERIAL**

Item	UNIT	Quan
Class X Concrete	cu yds	431
Reinforcement Bars	lbs	2610
Steel Piles (100mm dia)	ft	750
TEST PILE 517	NO. EACH	1

Note: Bill of Material includes reinforcement and class X concrete for end posts.



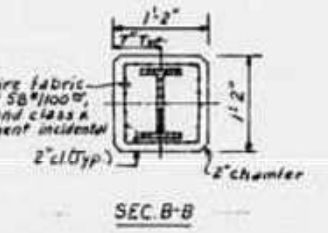
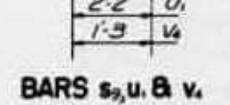
BAR n₂ & n₃



BAR n₀



BARS s₉, u₁ & v₆



PILE DATA

TYPE: steel 8BP 36
CAPACITY: Refusal
EST LENGTH: 25 Feet
NO REQ'D: 9-1 Test pile.

**SOUTH ABUTMENT
F.A. ROUTE 61 OVER RAMP DB**

F.A. ROUTE 61 STA. 69+15.64
PROJECT: WILL COUNTY
SECTION: 10
Scale: NONE
Date: Nov 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED	T. L. L.
CHECKED	J. J. H.
DRAWN	T. L. L.
CHECKED	J. T. L.

MODEL: Default
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FOR INFORMATION ONLY



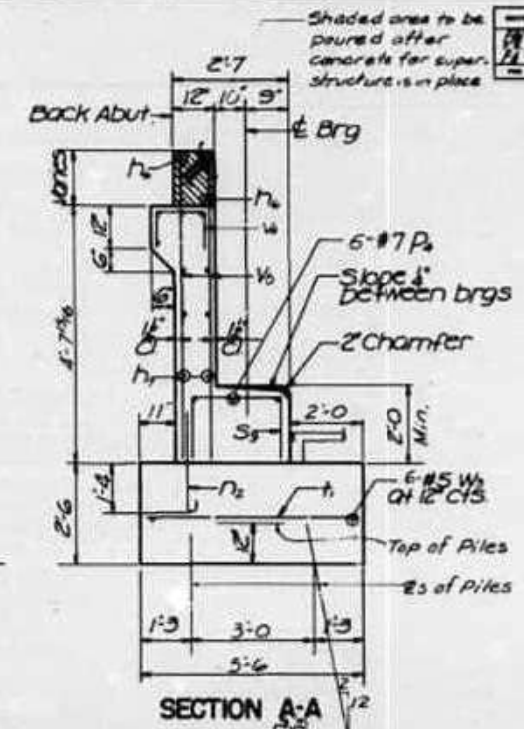
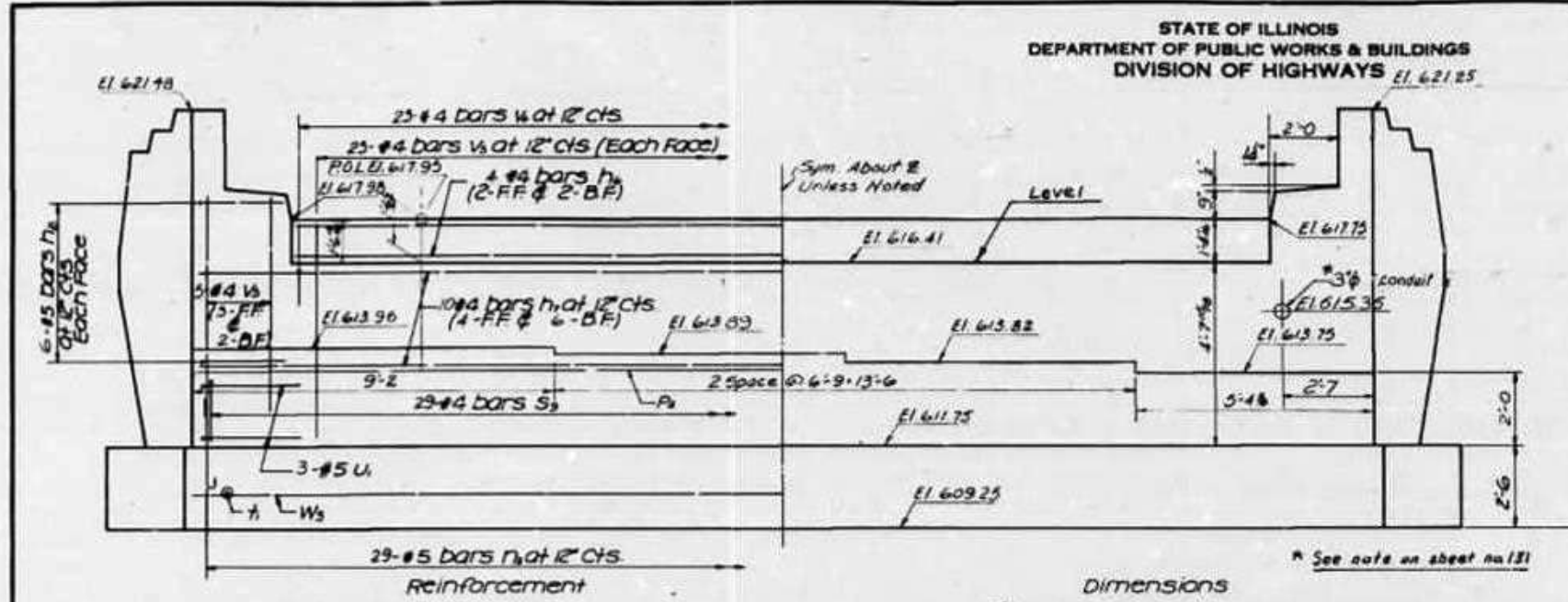
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DRAWN	-	REVISIONS	-	REVISIONS	-
PLOT SCALE	= 7:11.99616 "/>				
PLOT DATE	= 4/22/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SHEET 56 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	876
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



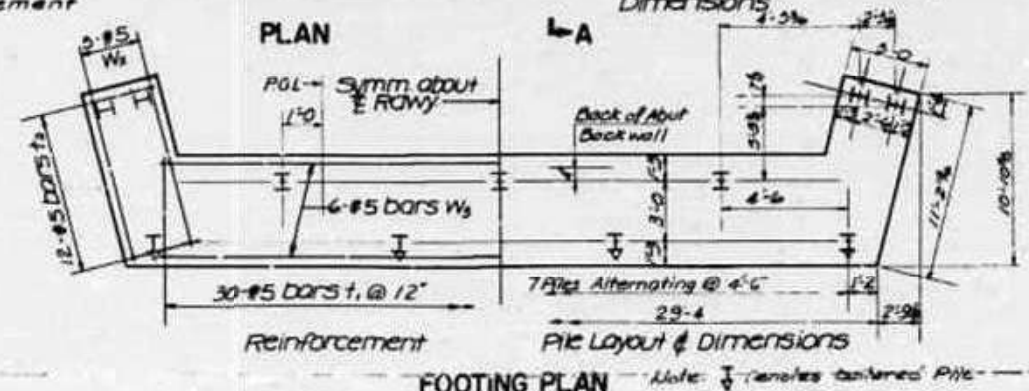
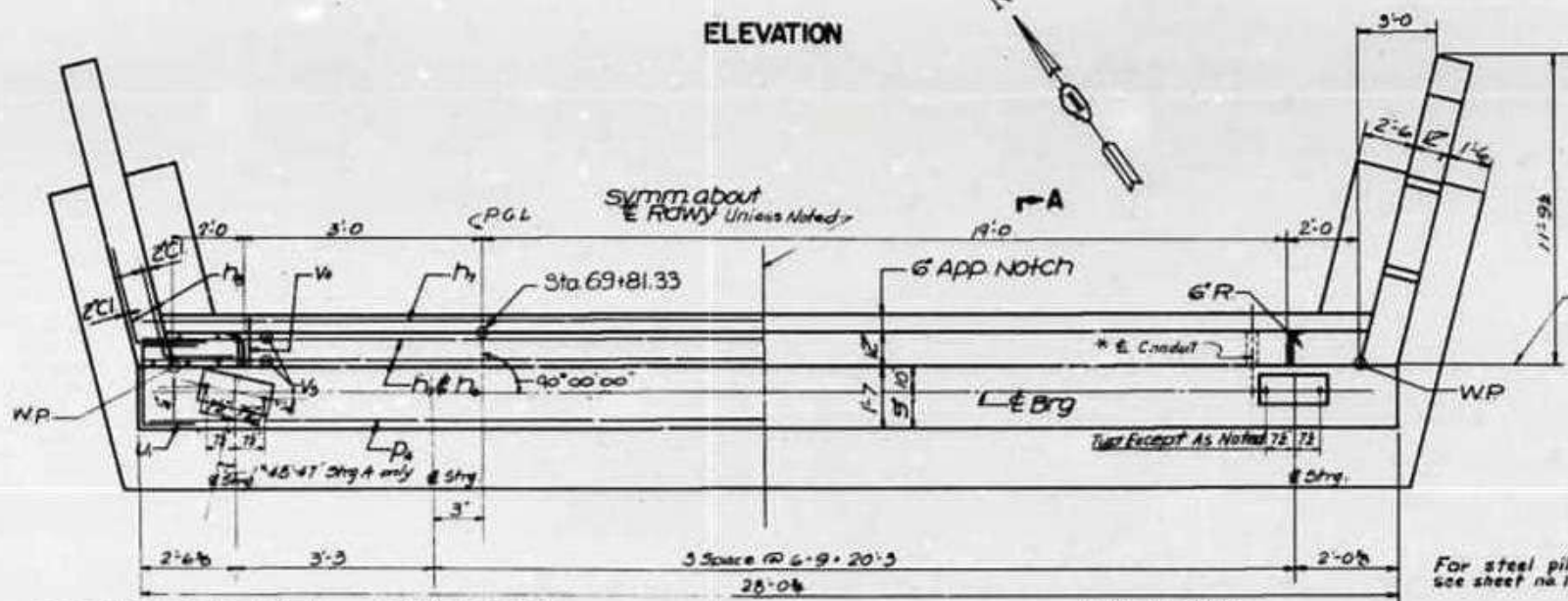
**NORTH ABUTMENT
BAR LIST**

Bar	No	Size	Lgh	Shape
n ₁	4	#4	21-0	—
n ₂	10	#4	27-0	—
n ₃	24	#5	4-9	L
n ₄	29	#5	3-9	J
n ₅	28	#5	3-11	J
n ₆	6	#7	27-0	—
s ₁	29	#4	5-11	□
t ₁	30	#5	5-0	—
t ₂	24	#5	4-6	—
u ₁	6	#5	5-2	□
v ₁	23	#4	2-9	□
v ₂	36	#4	5-9	—
w ₁	10	#5	10-8	—
w ₂	6	#5	28-10	—

**NORTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quan
Class X Concrete (CIVAS)	cu yds	39.4
Reinforcement Bars	lbs	2,440
Steel Piles (80% Lin. Ft)	Lin. Ft	240
TEST PILES (80% EACH)	Each	1

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



PILE DATA

Type	Steel B BP 36
Capacity	Refusal
Est Length	24 Feet
No. Piles	3+1 Test Pile

NORTH ABUTMENT
F.A. ROUTE 61 OVER RAMP DB
F.A. ROUTE 61 STA. 62+15.64
SECTION 10 (51+7.6)
WILL COUNTY
Date: Nov. 20, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WJDDURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

DESIGNED	T. L. L.
CHECKED	J. J. H.
DRAWN	T. L. L.
CHECKED	J. T. L.

11-25-64 J.T.L. Rev. class x conc. from 39.8 to 33.4 T piles all @ 3'-0" to all @ 4'-6"

FOR INFORMATION ONLY

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WSP USA Inc.
30 N. LA SALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1884

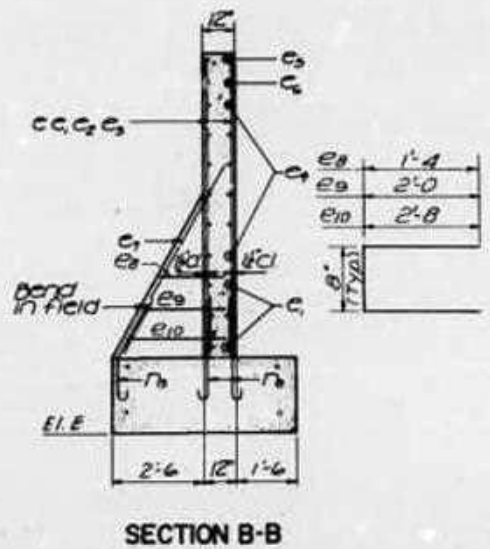
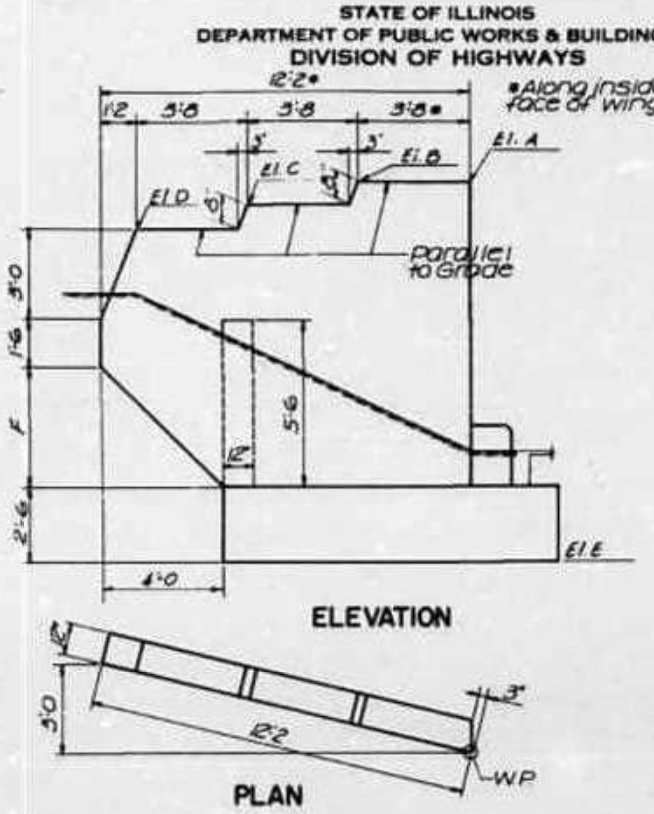
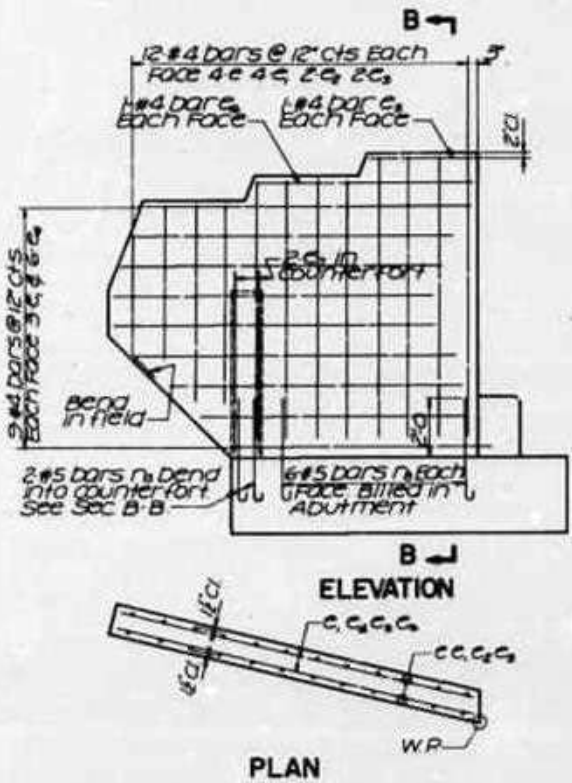
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING BRIDGE PLANS

SHEET 57 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	877
CONTRACT NO. 62R22			ILLINOIS FED. AID PROJECT	



ONE END POST
BILL OF MATERIAL

BAR NO	SIZE	LEN	SHAPE
C	8	9'-1"	—
C ₁	14	8'-4"	—
C ₂	4	6'-4"	—
C ₃	4	4'-10"	—
C ₄	12	10'-6"	—
C ₅	2	3'-6"	—
C ₆	2	7'-0"	—
C ₇	2	7'-0"	—
E ₁	1	3'-2"	—
E ₂	1	4'-6"	—
E ₃	1	5'-10"	—

Reinforcement Bars 105 280
Class X Concrete
N Abut. (2 End Posts) C.C.C.C. 78
S Abut. (2 End Posts) C.C.C.C. 80
Included in Quantity on Sheets 7 & 8

Station	A	B	C	D	E	F
11+00	627.81	627.14	622.40	621.96	610.93	4'-0"
5+00	622.85	622.89	622.36	621.73	610.93	3'-9"
11+00	621.48	621.41	620.18	618.55	609.25	3'-8"
5+00	621.25	621.18	620.45	618.72	609.25	3'-5"

TABLE OF WINGWALL ELEVATIONS & DIMENSIONS

DESIGNED	T. L. L.
CHECKED	J. T. L.
DRAWN	T. L. L.
CHECKED	J. T. L.

ABUTMENT DETAILS
FA. ROUTE 61 OVER RAMP DB
FA. ROUTE 61 STA. 69+15.64
PROJECT
SECTION 10
WILL COUNTY
Date: Nov 10, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURN, N. J. CRYSTAL LAKE, ILL.

11'25'4" I.M.J. Rev. class x conc. S abut from T8 to B.0 cu yds, N abut from T6 to T.8 cu yds. (Rev. at end post elev.)

FOR INFORMATION ONLY

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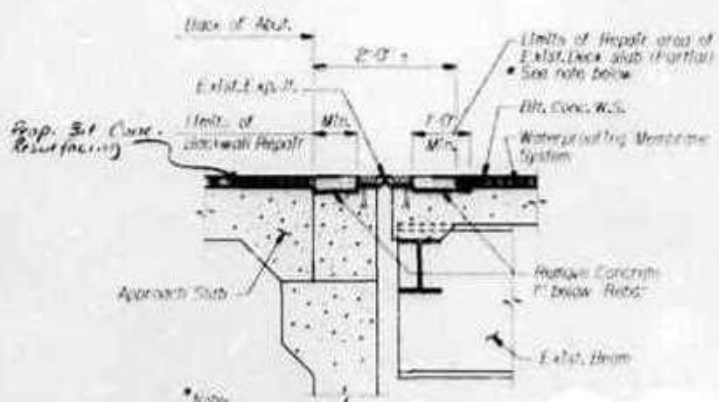
BENCH MARK TWO #17A

1. 2' x 2' concrete on 4" rebar
2' x 2' concrete on 4" rebar
2' x 2' concrete on 4" rebar
2' x 2' concrete on 4" rebar



ELEVATION

EXISTING STRUCTURE DATA:
 1. Bridge Structure
 2. Bridge Structure
 3. Bridge Structure
 4. Bridge Structure
 5. Bridge Structure
 6. Bridge Structure
 7. Bridge Structure
 8. Bridge Structure
 9. Bridge Structure
 10. Bridge Structure



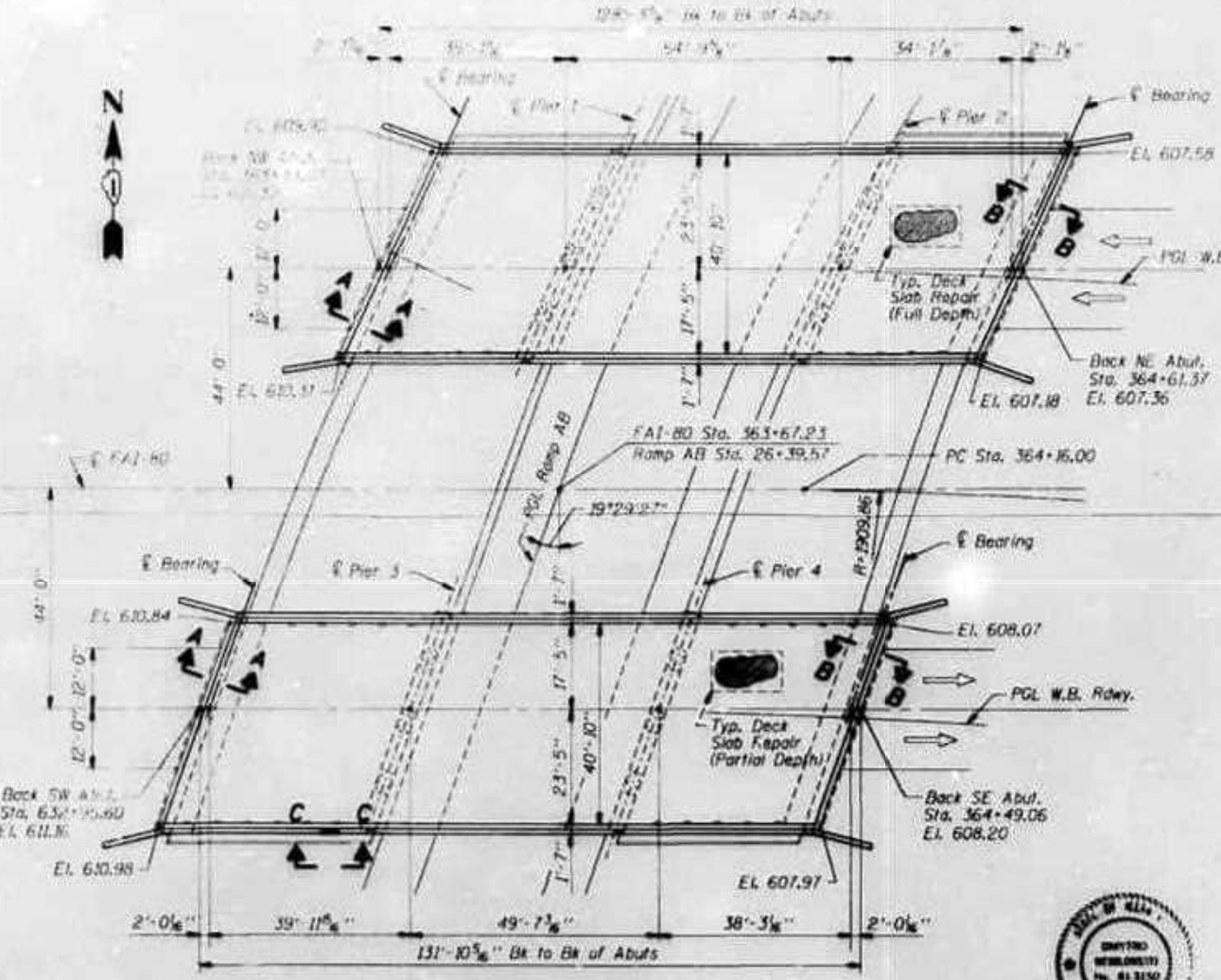
SECTION A-A
SECTION B-B (S.I.M.)

* SEC 99 (2&3) RS, 99-2 (B, VB, HB-4)
 & 99-3(B) (B2) BR
 D-91-362-89

TOTAL BILL OF MATERIALS

ITEM	QTY	UNIT	PRICE	TOTAL
Bituminous Concrete Removal Deck	1,200	Sq.Yd.	1.50	1,800.00
Deck Slab Repair (Full Depth)	1,200	Sq.Yd.	2.50	3,000.00
Deck Slab Repair (Full Depth, Type 2)	1,200	Sq.Yd.	2.50	3,000.00
Deck Slab Repair (Full Depth, Type 2)	1,200	Sq.Yd.	2.50	3,000.00
Waterproofing Membrane System	1,200	Sq.Yd.	1.50	1,800.00
Bituminous Concrete Surface Course	1,200	Sq.Yd.	1.50	1,800.00
MA F-1, Class 2, Type 1	1,200	Sq.Yd.	1.50	1,800.00
Repair Concrete Structures	1,200	Sq.Yd.	1.50	1,800.00
Protective Coating	1,200	Sq.Yd.	1.50	1,800.00
Deck Slab Extension	1,200	Sq.Yd.	1.50	1,800.00

• See Special Provision
 ** Quantities are approximate quantities and shall be determined in the field and approved by the Engineer



PLAN

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
2. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

DESIGN SPECIFICATIONS

AASHTO 1989 Standard Specifications For Highway Bridges, 1990 and 1991 Interims, Standard Specifications for Road and Bridge Construction, State of Illinois adopted July 01, 1988 and Supplemental Specifications and Recurring Special Provisions adopted December 2, 1991

DESIGN STRESSES

Reinforced Concrete $f_c = 3,500$ psi
 Reinforcement $f_y = 60,000$ psi

CONSTRUCTION NOTES:

1. Remove Bituminous Concrete surface and Waterproofing Membrane System from the bridge deck.
2. Repair spalled and unsound areas of concrete in the bridge deck and elsewhere as shown on the plans.
3. Install a Waterproofing Membrane System on the bridge deck and provide Bituminous Concrete surface for the bridge deck.
4. Extend existing drain pipes to discharge below the bottom flange of beam (if Required).
5. All construction on the bridges shall be completed in two construction stages. See sheet 2 of 2 for details.

INDEX OF SHEETS

Sheet No.	Title
1.	GENERAL PLAN AND ELEVATION
2.	Stage Construction Details

FAI-80 CURVE DATA (ARC DEF)

P.I. STA	371+20.58
Δ	40° 30' 00"
D	3° 00' 00"
R	1908.86'
T	704.88'
L	1350.00'
E	125.82'
P.C. STA	364+16.00
P.T. STA	377+66.00



LOCATION MAP

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 FAI-80 OVER CENTER ST. RAMP AB
 F.A. ROUTE 1-80 SECTION
 STA. 363+67.23
 STRUCTURE NO. 099-0052 & 099-0053
 WILL COUNTY

Designed by
FLUOR DANIEL
 CHICAGO, ILLINOIS

Job No. 136700
 DRAWN: C.M/D.R. APPROVED: [Signature]
 DESIGNED: P.P.P. SCALE: 1/4" = 1'-0"
 CHECKED: J.B. DATE: [Date]

FOR INFORMATION ONLY

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wsp
 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 400
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USCP702533	DESIGNED -	REVISED -
PLOT SCALE = 7:11,99616"/in.	DRAWN -	REVISED -
PLOT DATE = 4/22/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
 SHEET 59 OF 62 SHEETS

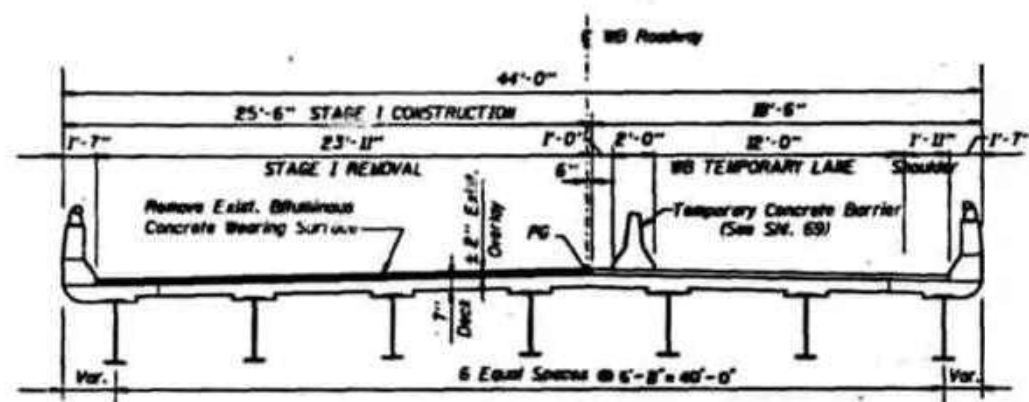
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CONTRACT NO. 62R22
 ILLINOIS FED. AID PROJECT

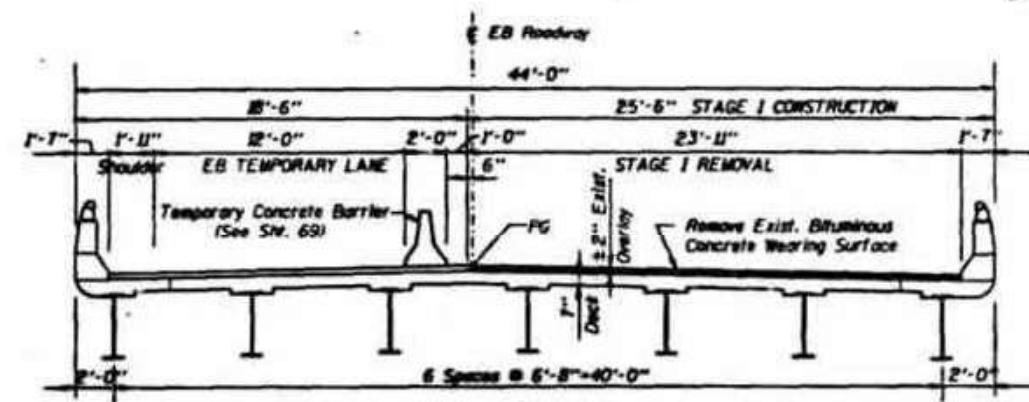
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DATE	BY	CHECKED	DATE
1-80		WLL	10-87
REV.	BY	DATE	
NO. 1			
NO. 2			

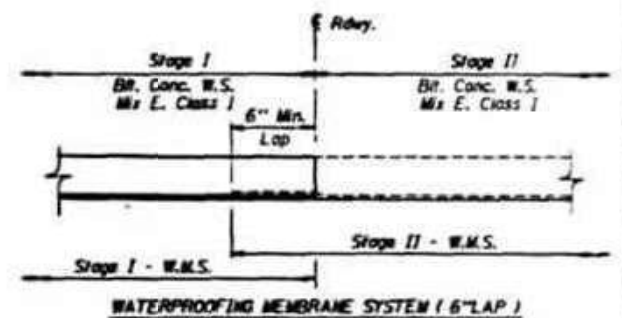
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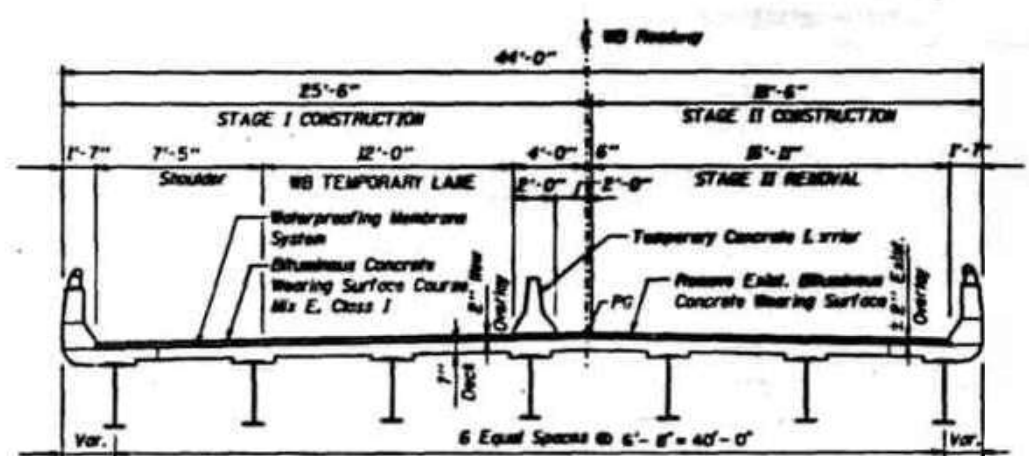
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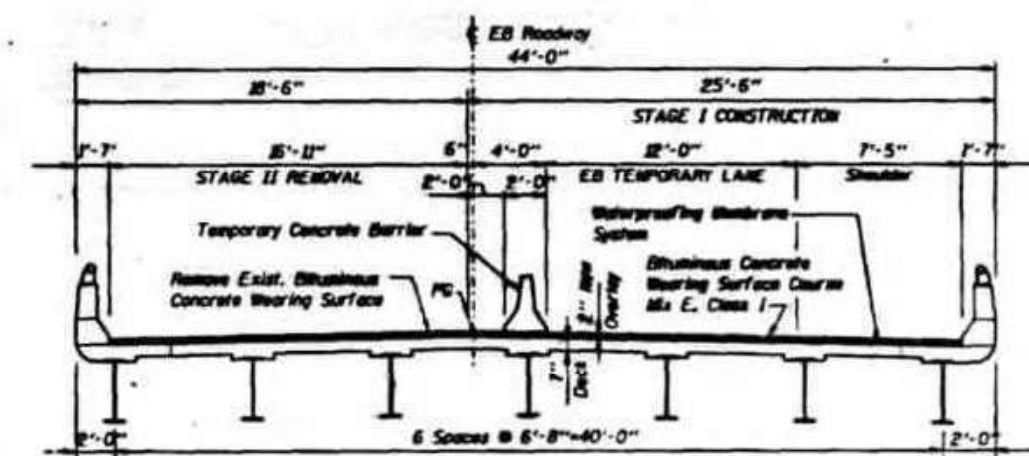
STAGE I (E.B.)



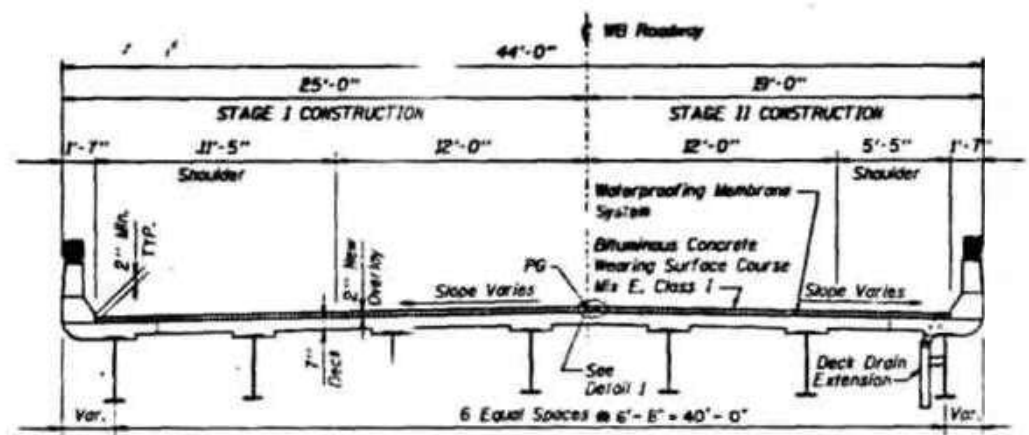
DETAIL 1
DETAIL 2 (SIMILAR)



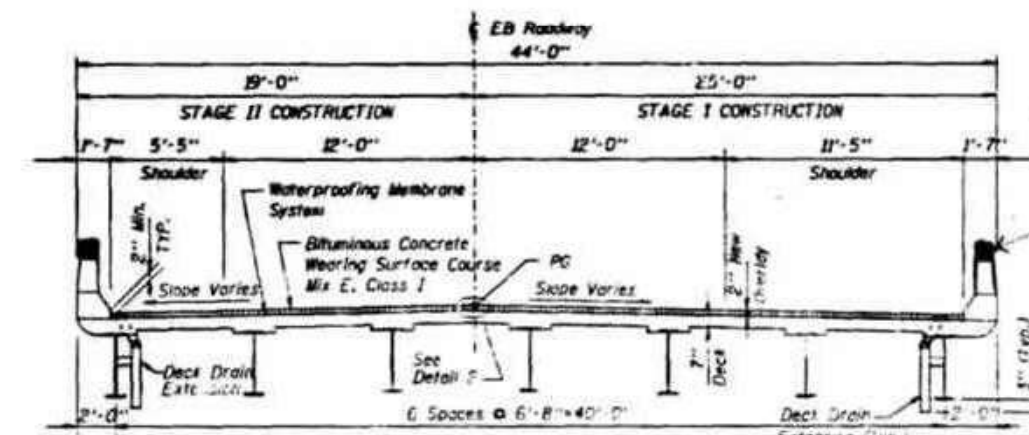
STAGE II (W.B.)



STAGE II (E.B.)



FINAL CROSS SECTION (W.B.)
WEST BOUND ROAD - STAGE CONSTRUCTION



FINAL CROSS SECTION (E.B.)
EAST BOUND ROAD - STAGE CONSTRUCTION

LEGEND:
 Removal of Exist. Bit. Concrete Wearing Surface
 New Bituminous Concrete Wearing Surface

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGE CONSTRUCTION DETAILS
 FAI-80 OVER CENTER ST. INT.
 F.A. ROUTE I-80 SECTION
 STA. 36+00.00
 STRUCTURE NO. 099-0051 1-095-005
 COUNTY
 WILL

FLUOR DANIEL

FOR INFORMATION ONLY

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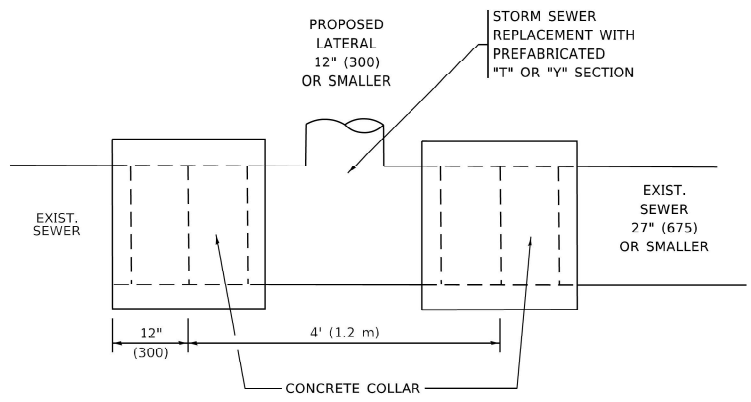
wsp
 WSP USA Inc.
 30 N. LASALLE STREET
 SUITE 4000
 CHICAGO, IL 60602
 TEL: (312) 782-8150
 FAX: (312) 782-1884

USER NAME = USCP702533	DESIGNED -	REVISED -
PLOT SCALE = 7:11.99616 1" = 7'-0"	DRAWN -	REVISED -
PLOT DATE = 4/22/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

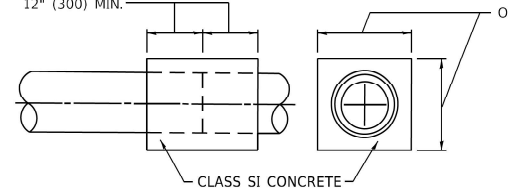
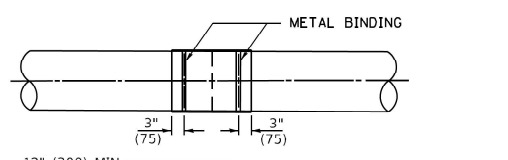
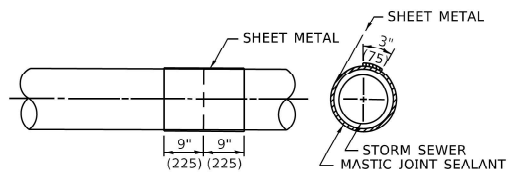
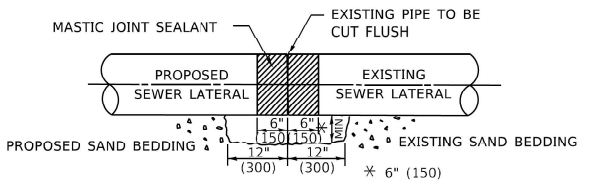
EXISTING BRIDGE PLANS
 SHEET 60 OF 62 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	880
			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



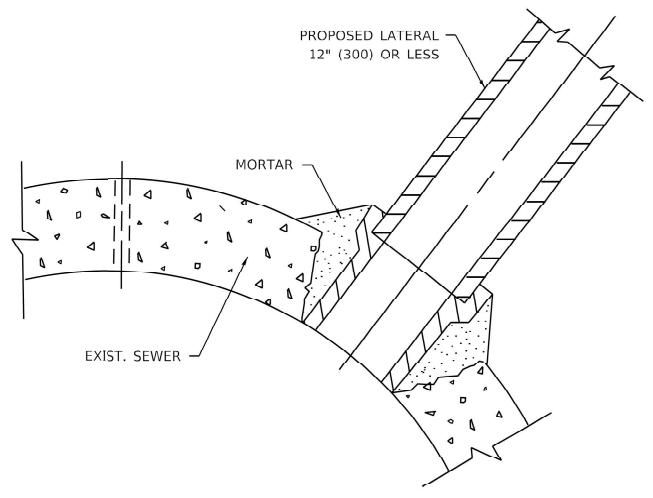
DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



DETAIL "B"

CLASS SI CONCRETE COLLAR



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
2. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

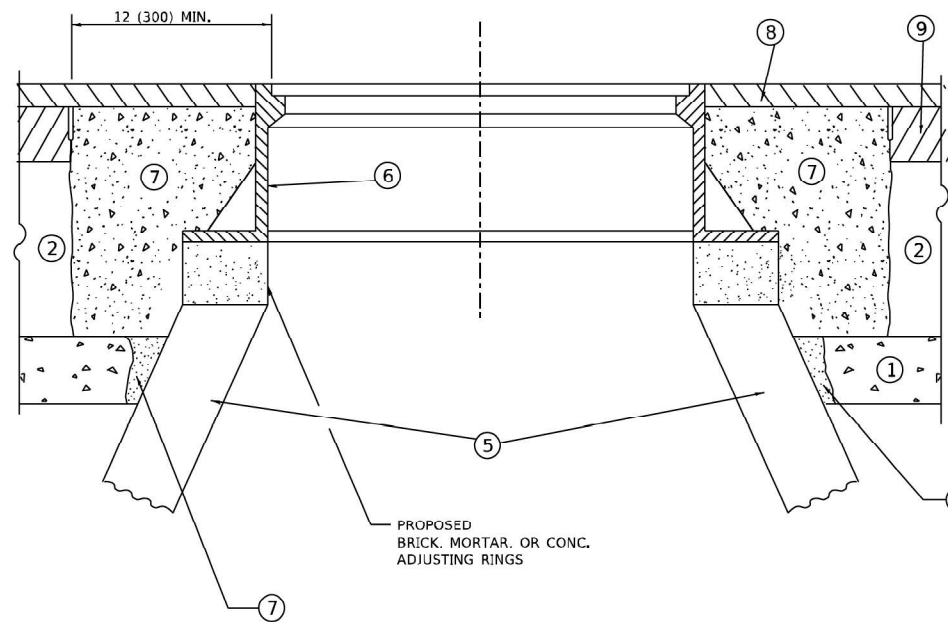
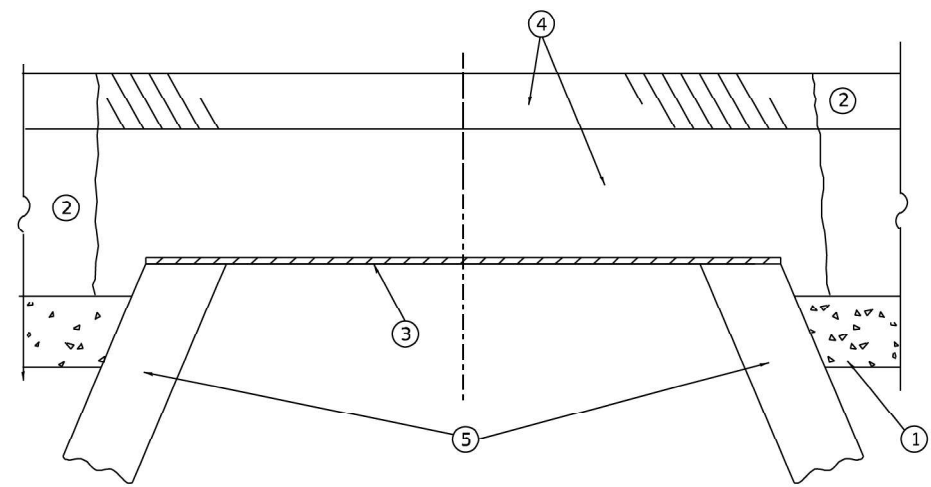
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USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. SHAH 06-12-96
PLOT DATE = 11/18/2022	DATE - 07-25-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	883
BD500-01 (BD-07)		CONTRACT NO. 62R22		
ILLINOIS FED. AID PROJECT				



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

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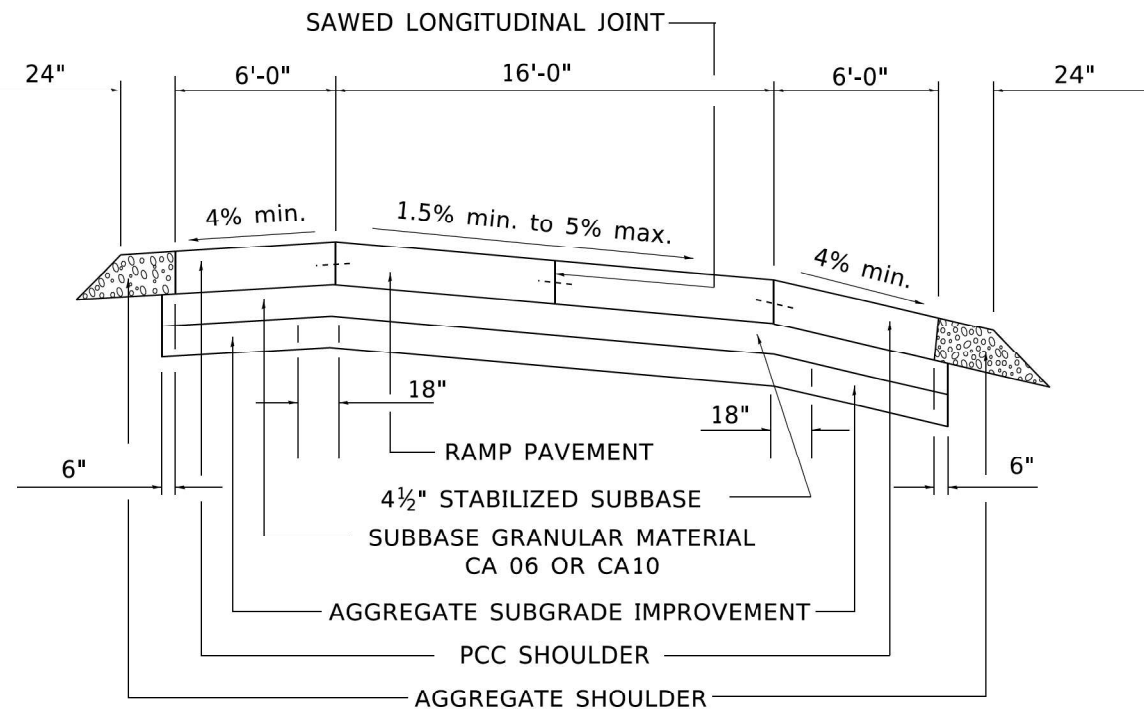
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

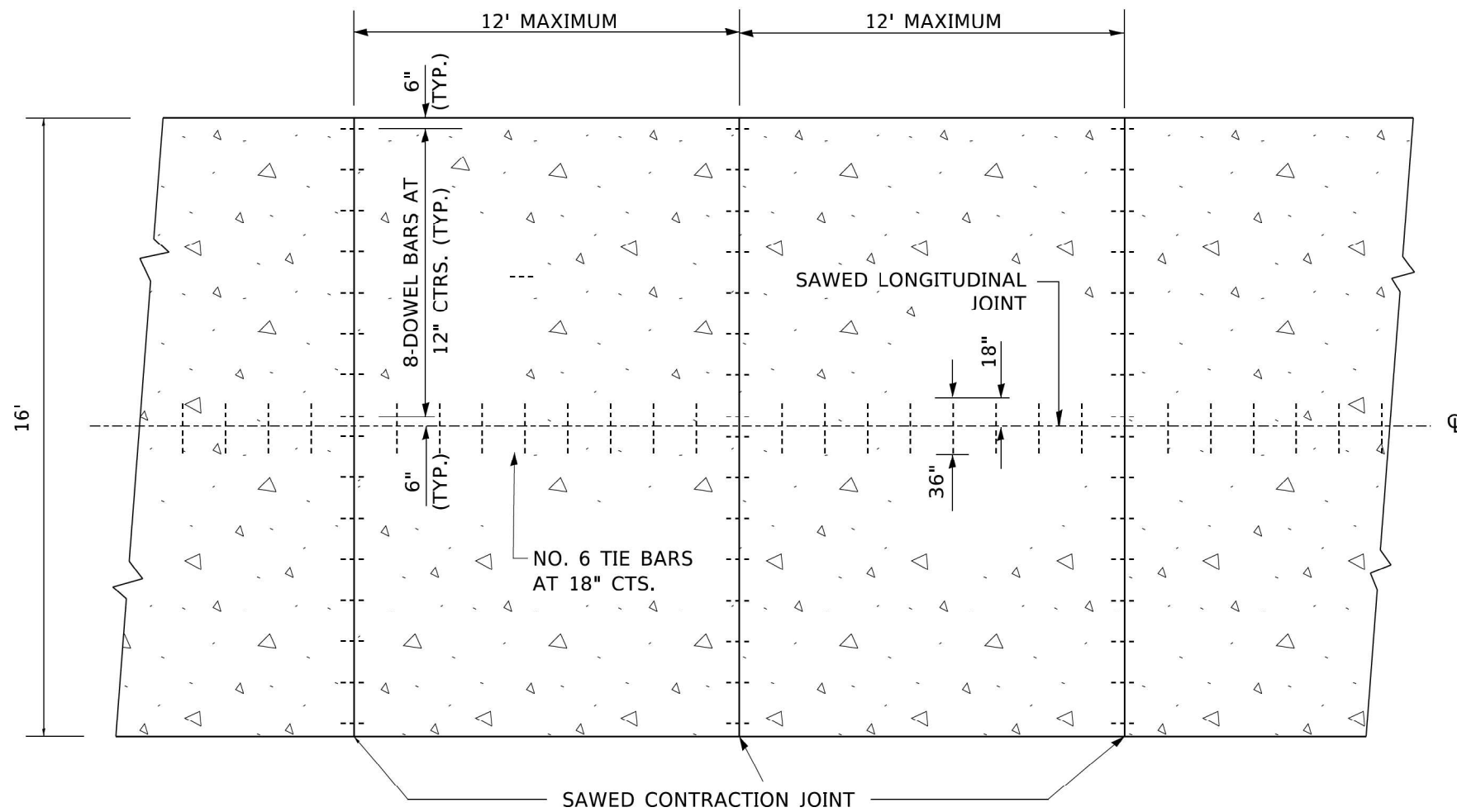
**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD600-03 (BD-08)			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



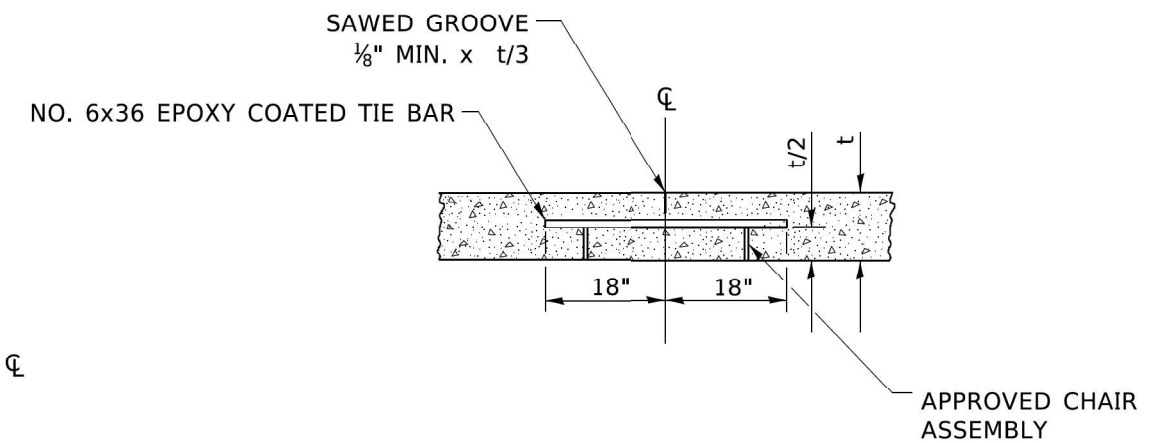
SECTION



PLAN

NOTES:

1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12'.
2. ALL BARS TO BE EPOXY COATED.



SAWED LONGITUDINAL JOINT

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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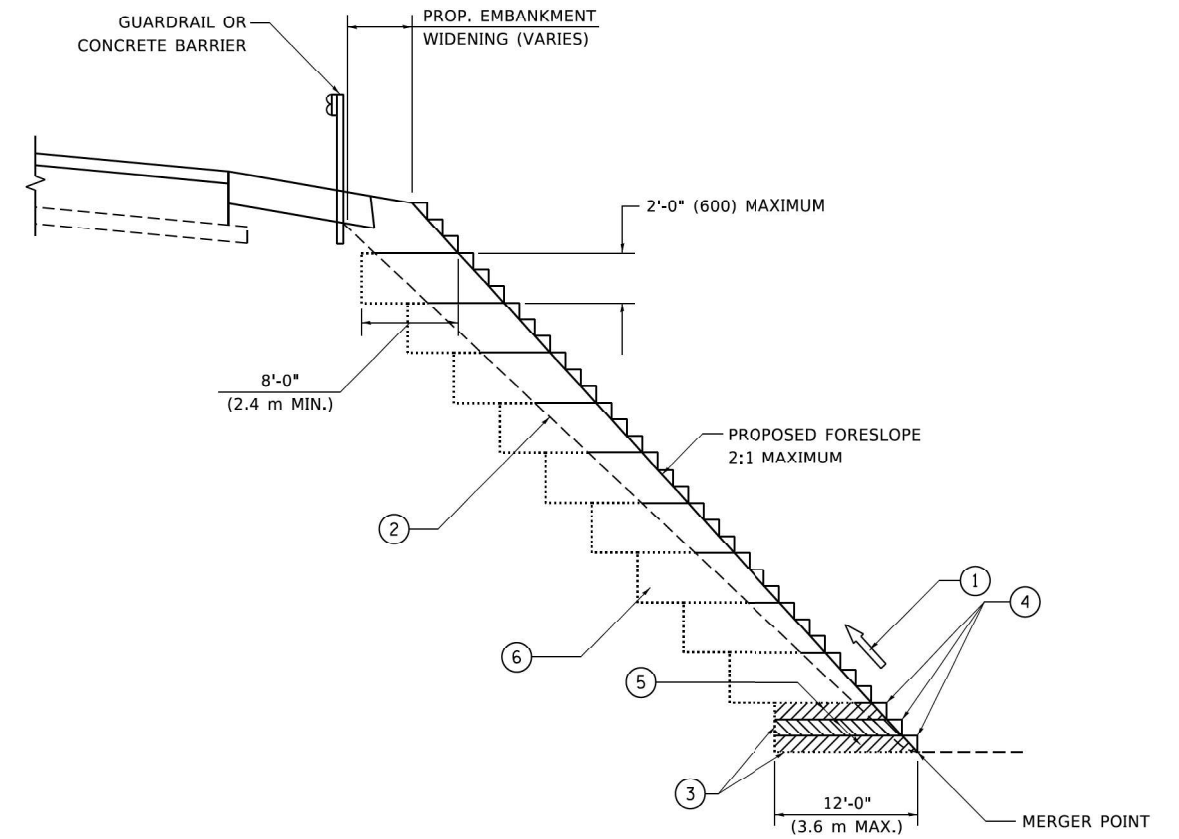
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL FOR CENTERLINE SAW CUT 16' AND
VARIABLE JOINTED PCC PAVEMENT FOR RAMPS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD49			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				



**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 PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE 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 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

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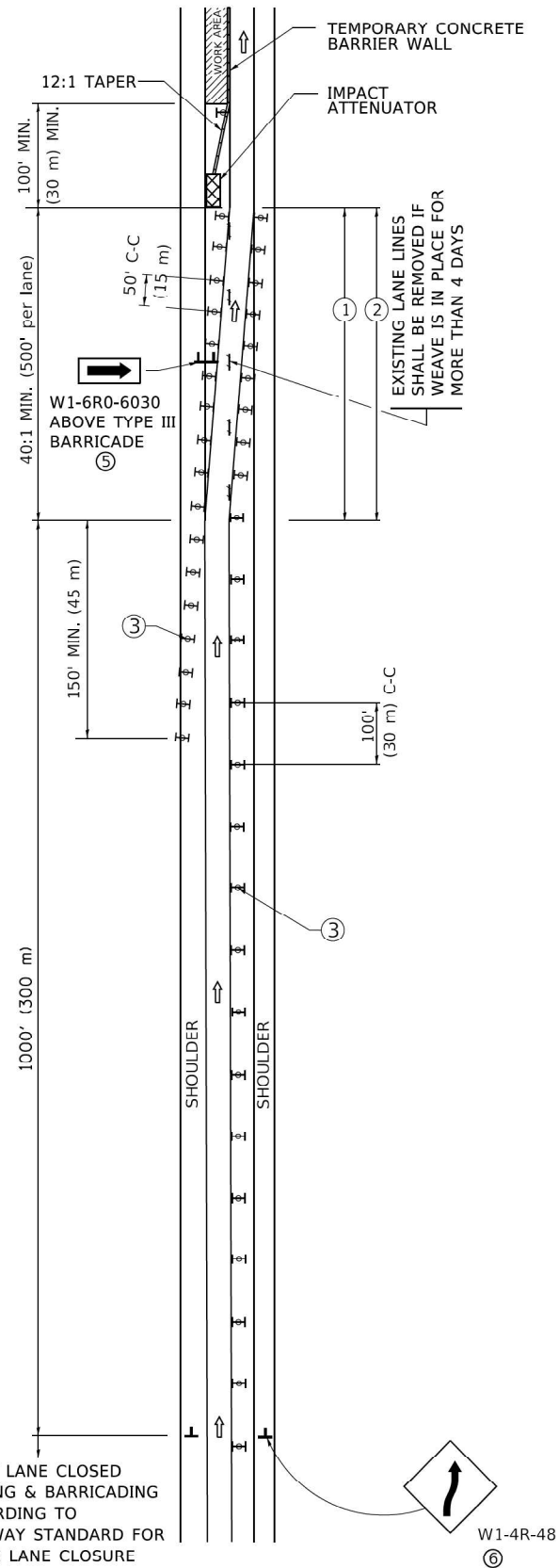
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

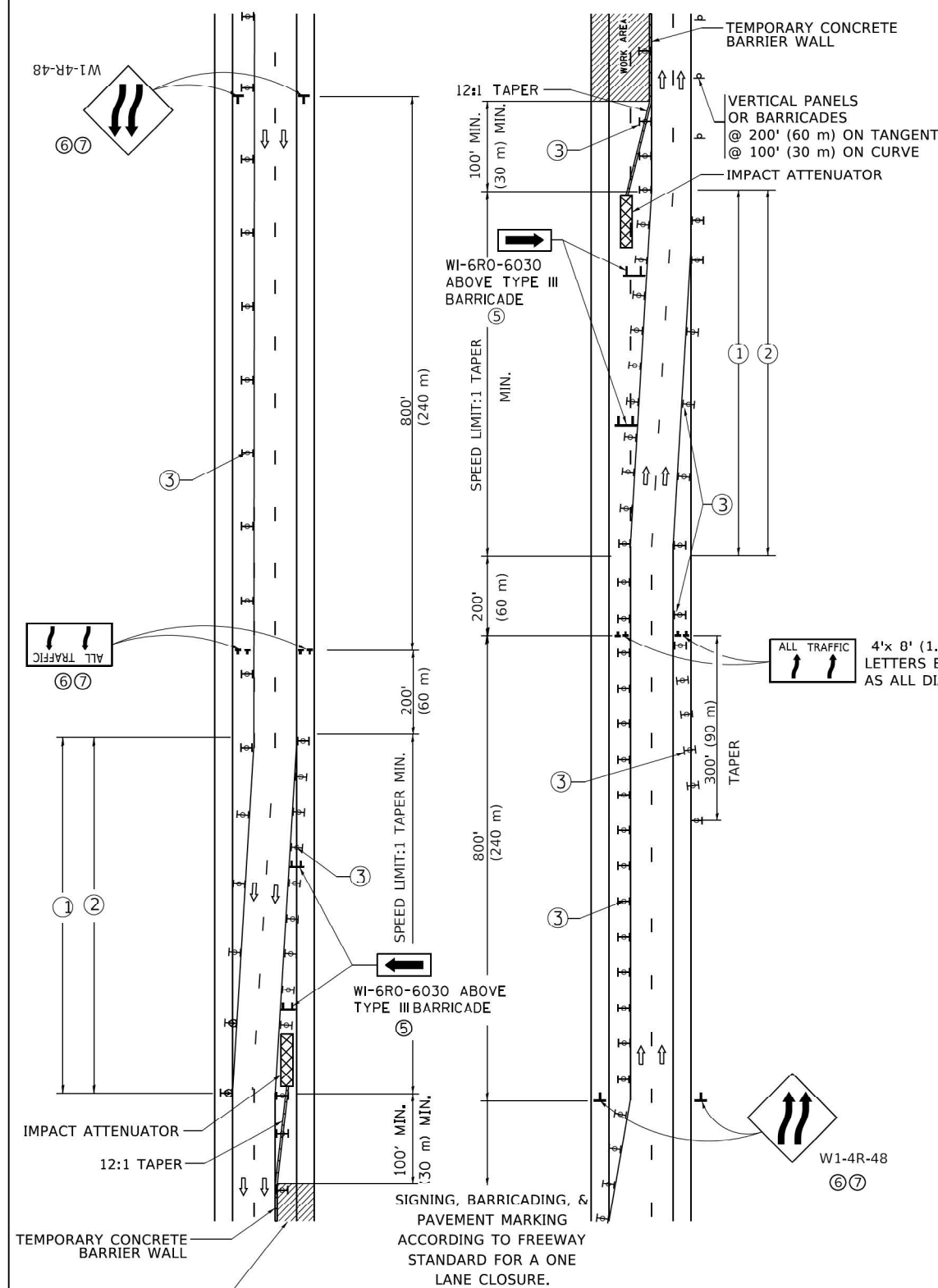
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BD-51			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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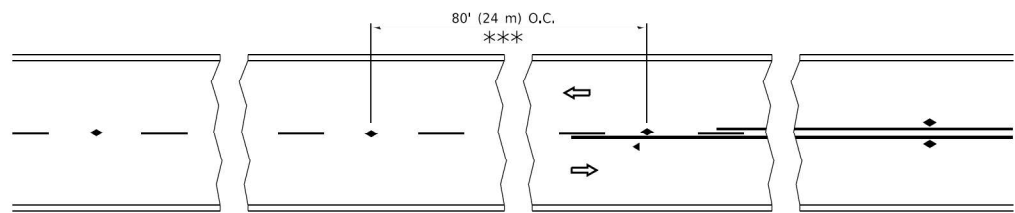
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PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

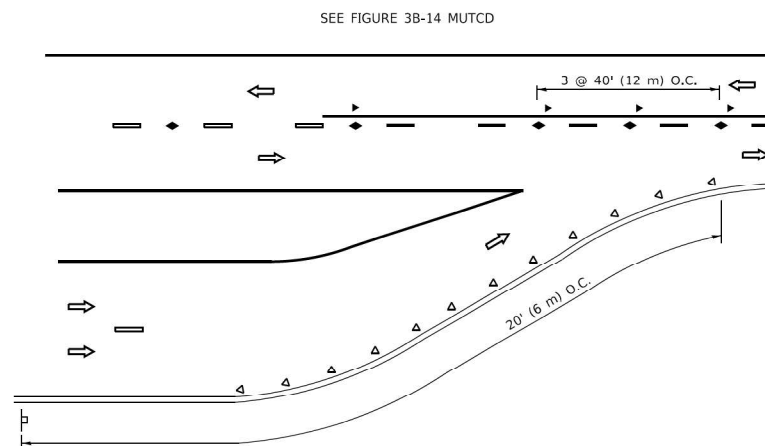
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ILLINOIS FED. AID PROJECT				

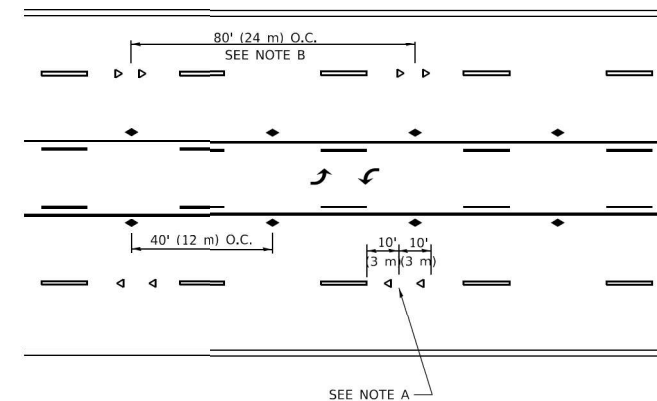


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

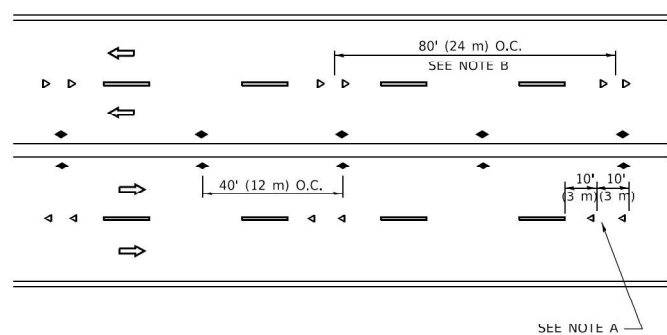
TWO-LANE/TWO-WAY



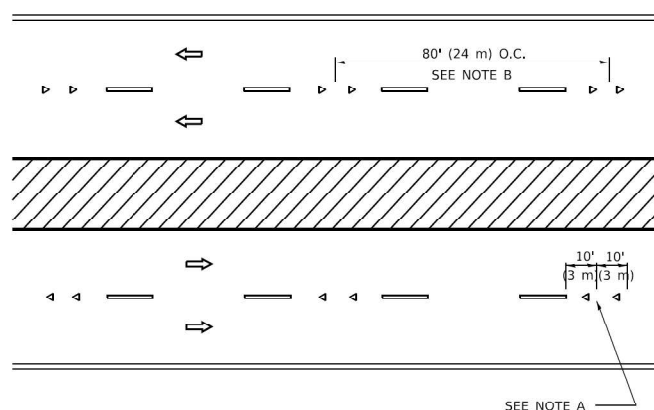
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

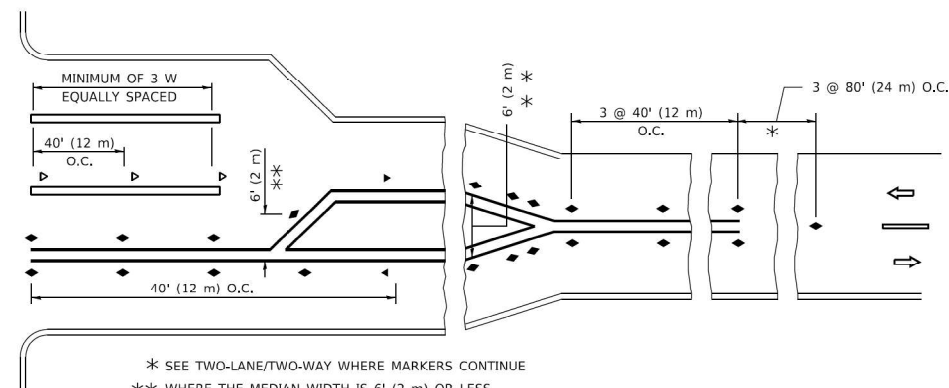
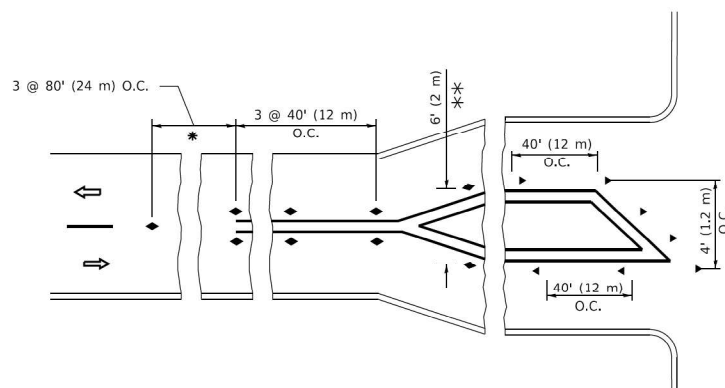
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 *** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

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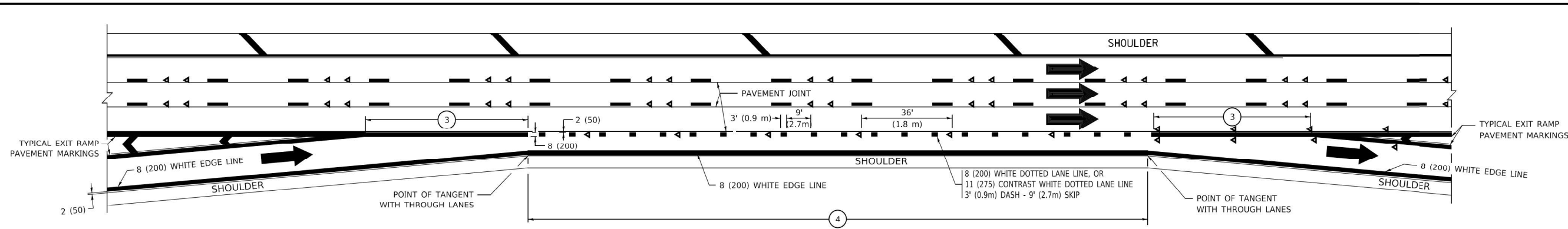
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

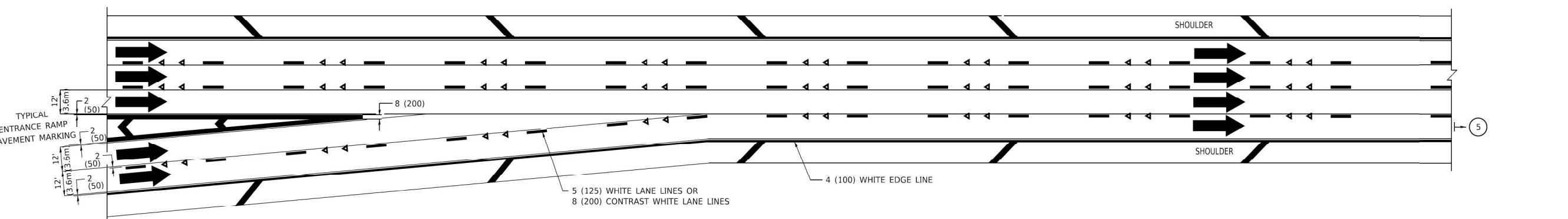
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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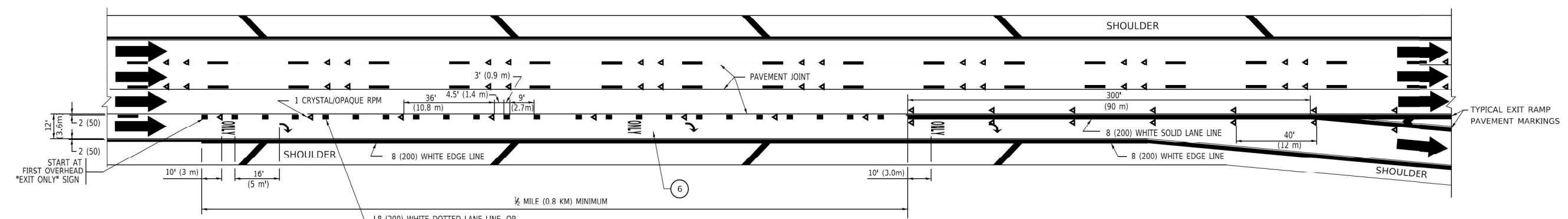
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		ILLINOIS	FED. AID PROJECT	



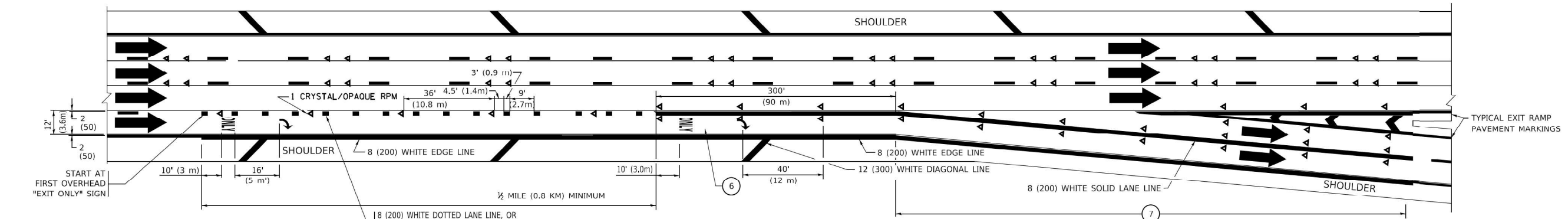
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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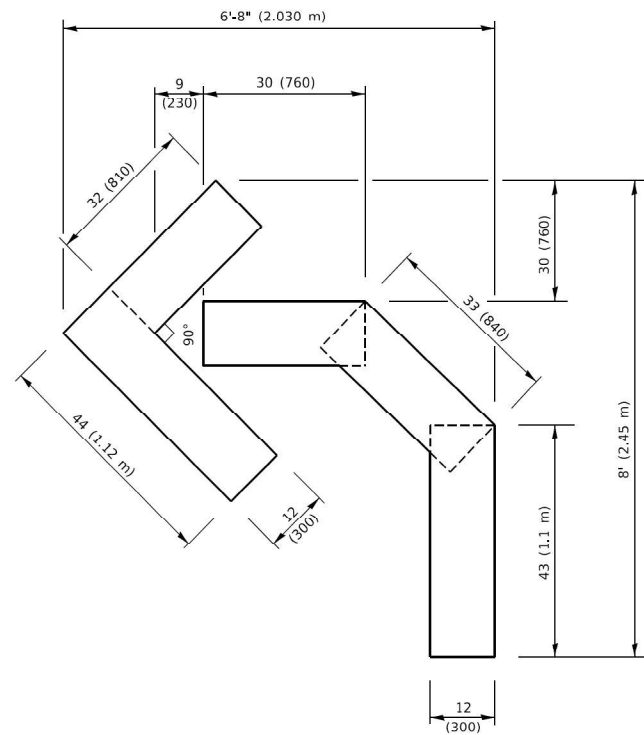
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

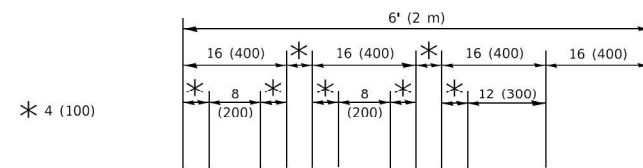
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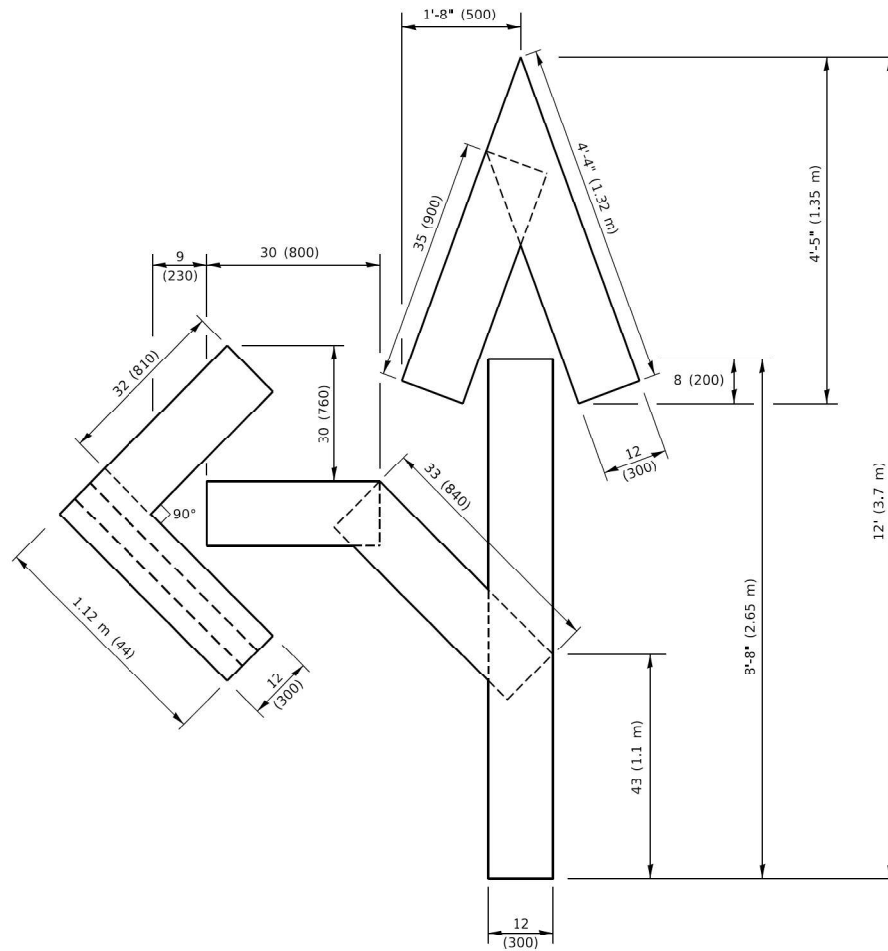
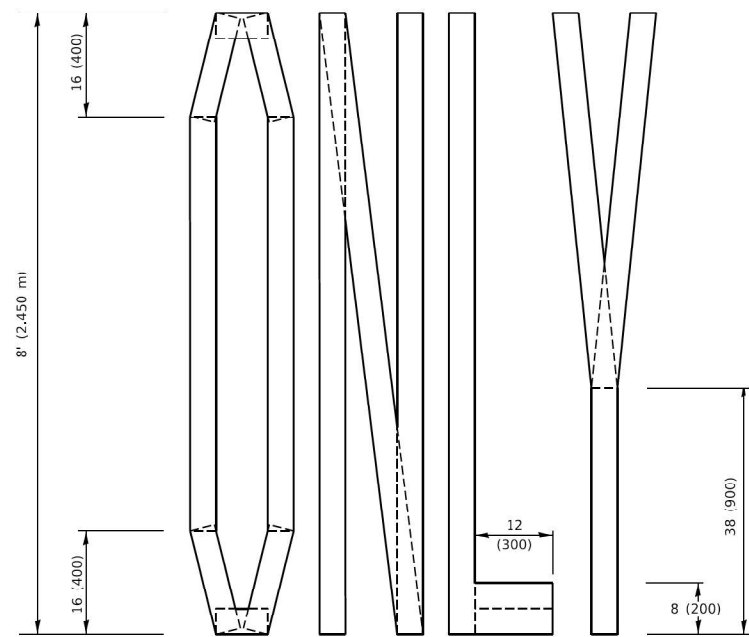
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

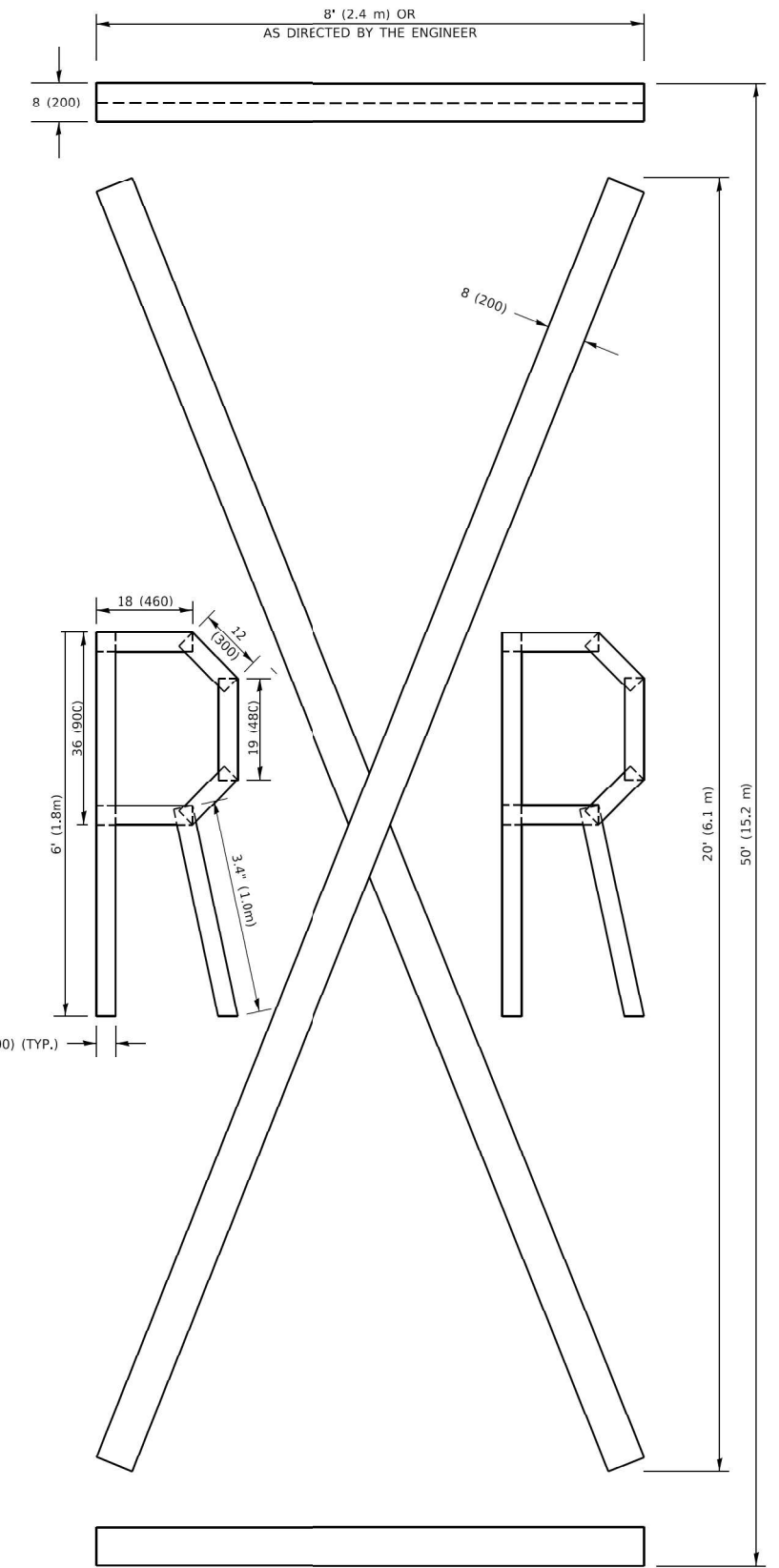


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

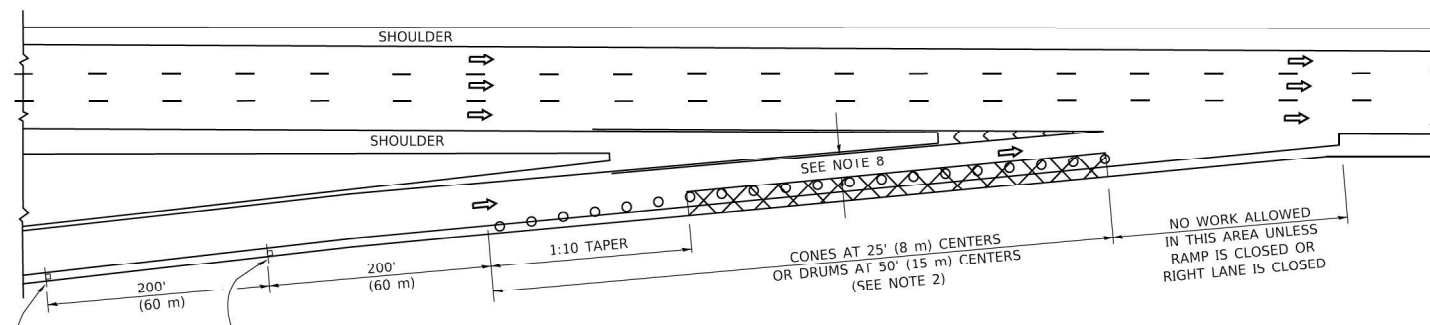
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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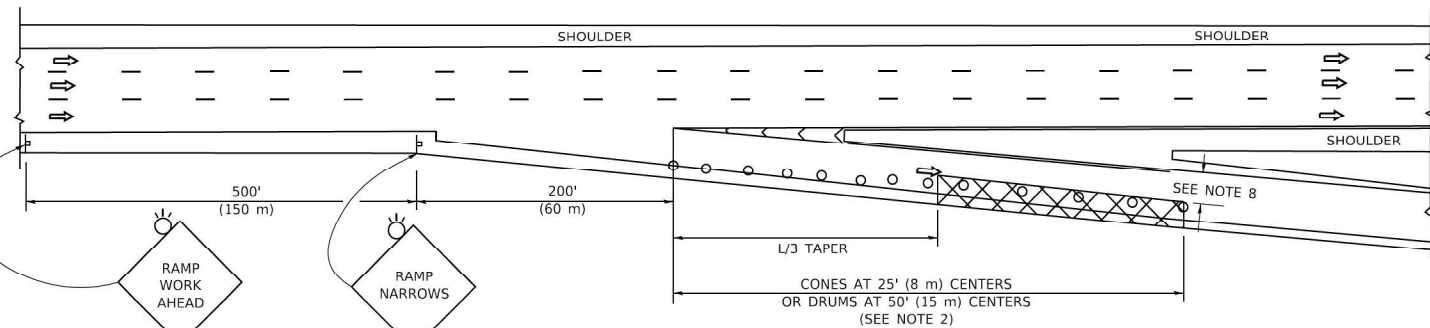
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TC-16			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

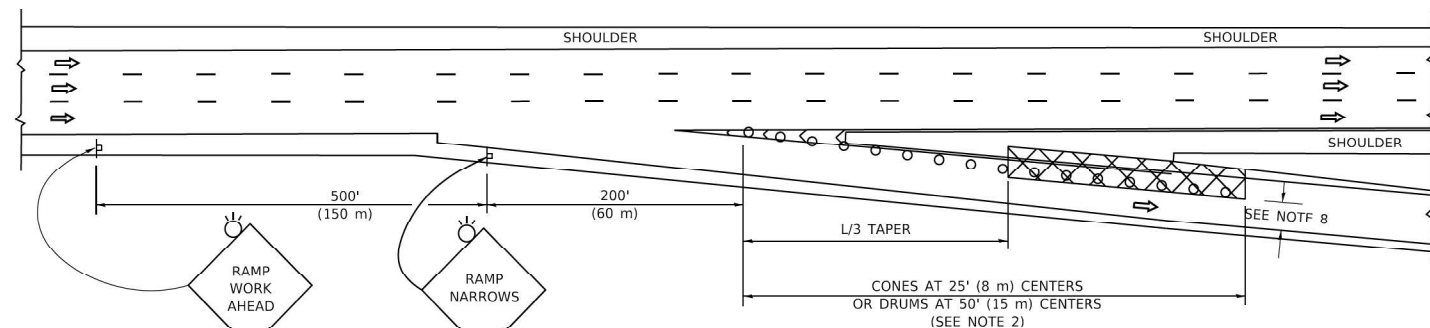
SHOULDER CLOSURE DETAILS



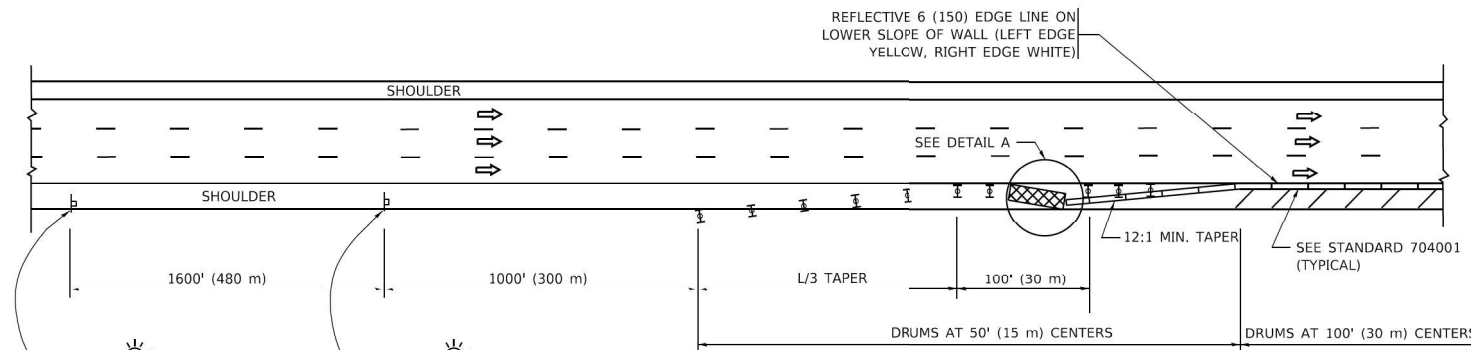
TYPICAL ENTRANCE RAMP



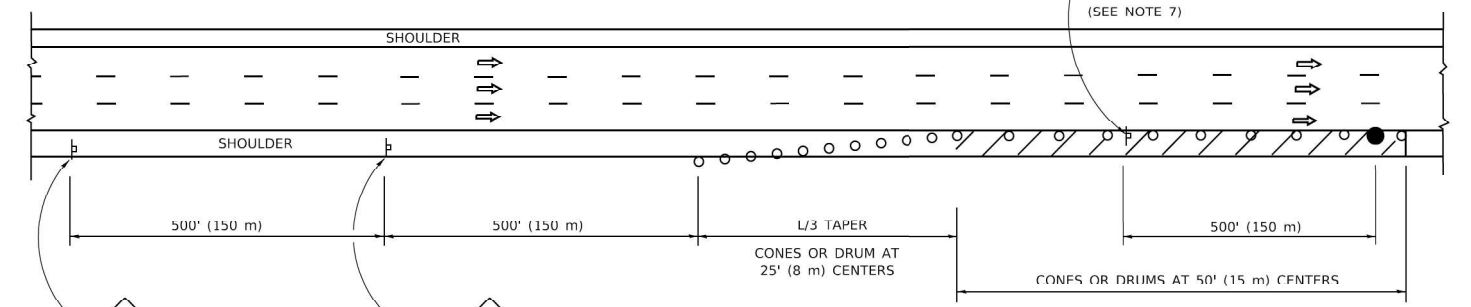
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

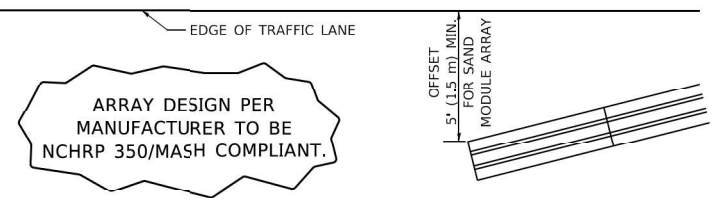


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)**

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

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

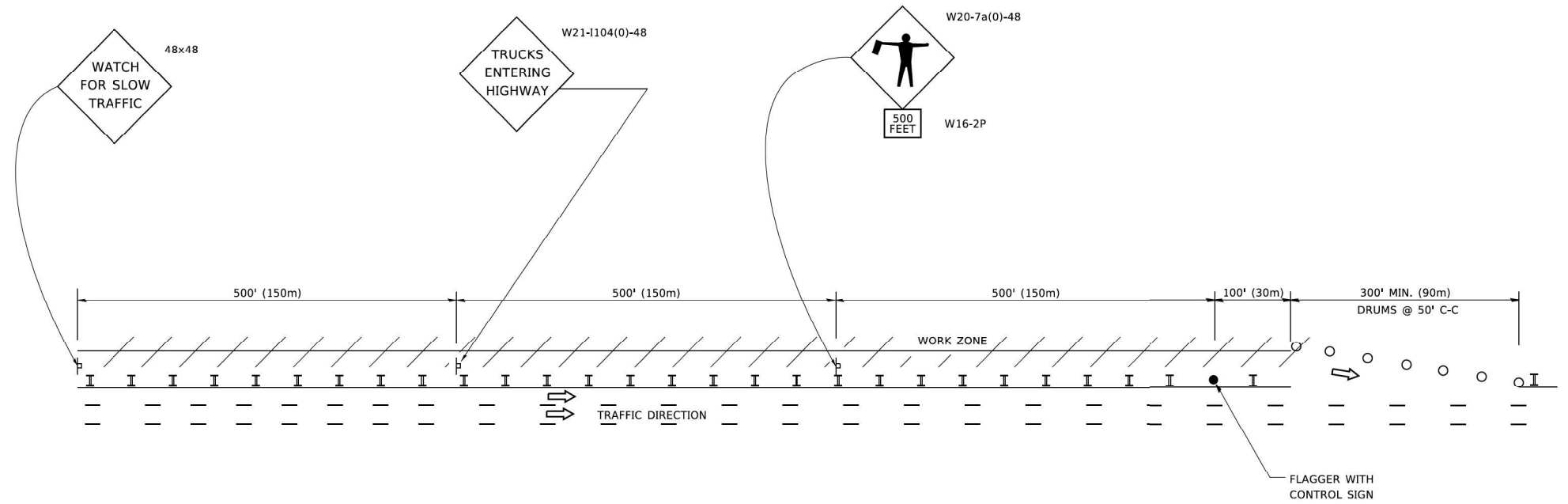
**TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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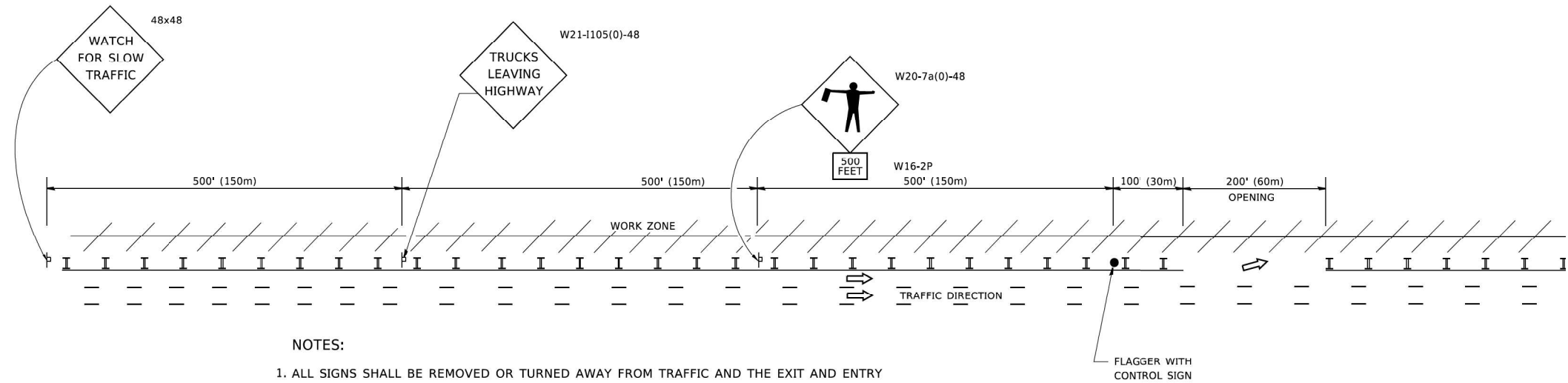
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80	FAI 80 21 INTERCHANGE	WILL	1209	897
TC-17		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 3/4/2019	DATE -	REVISED - M.D.06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	898
TC-18			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				

MODEL Default
 FILE NAME: P:\1111\084EBD\NTEC\Illinois\pvt\WV\DOT\Documents\ISDOT_Offices\Bldg11_P\proj\GIS\GIS\48272-31\CAD\DATA\CAD\sheet\k21.dgn

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

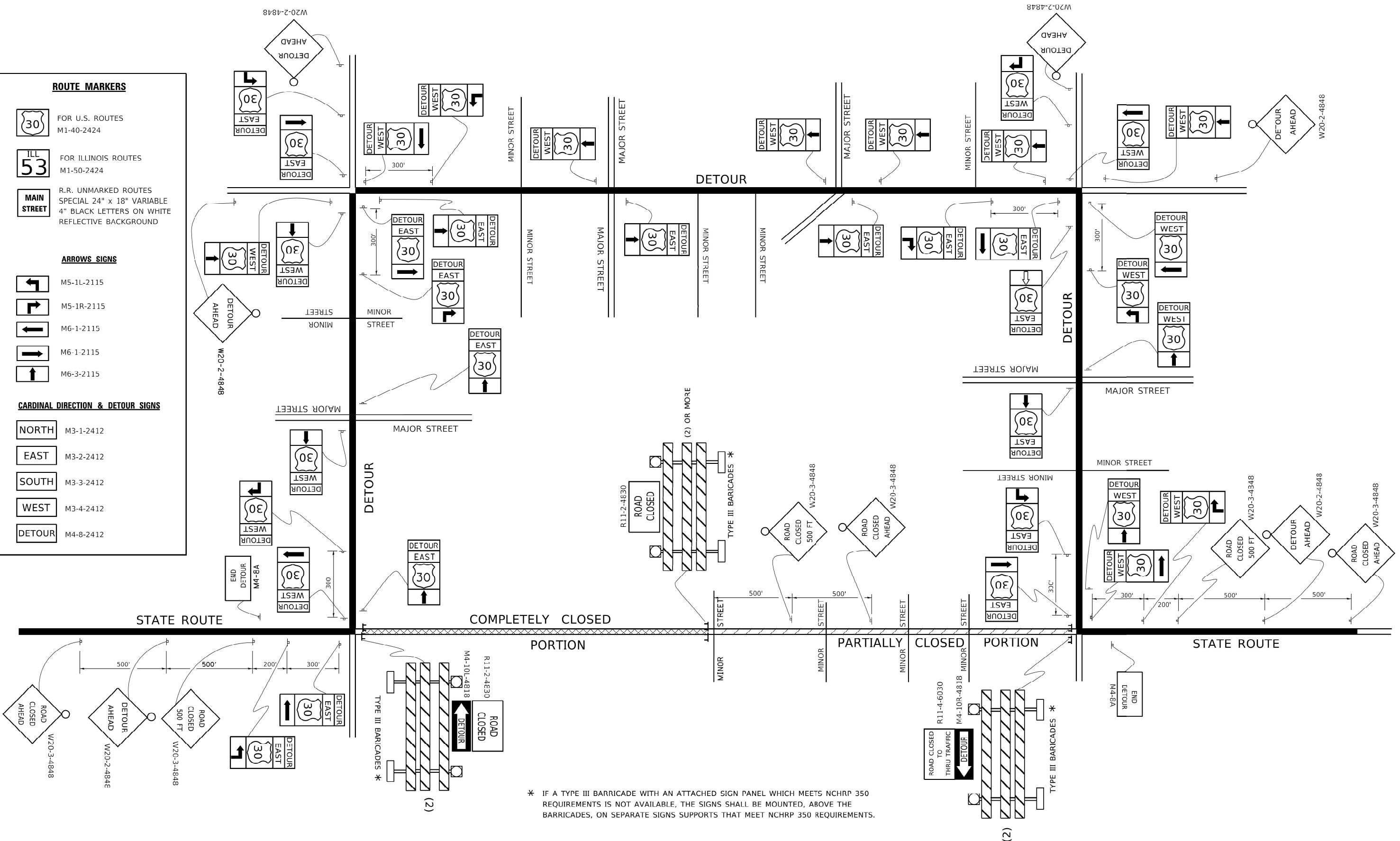
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

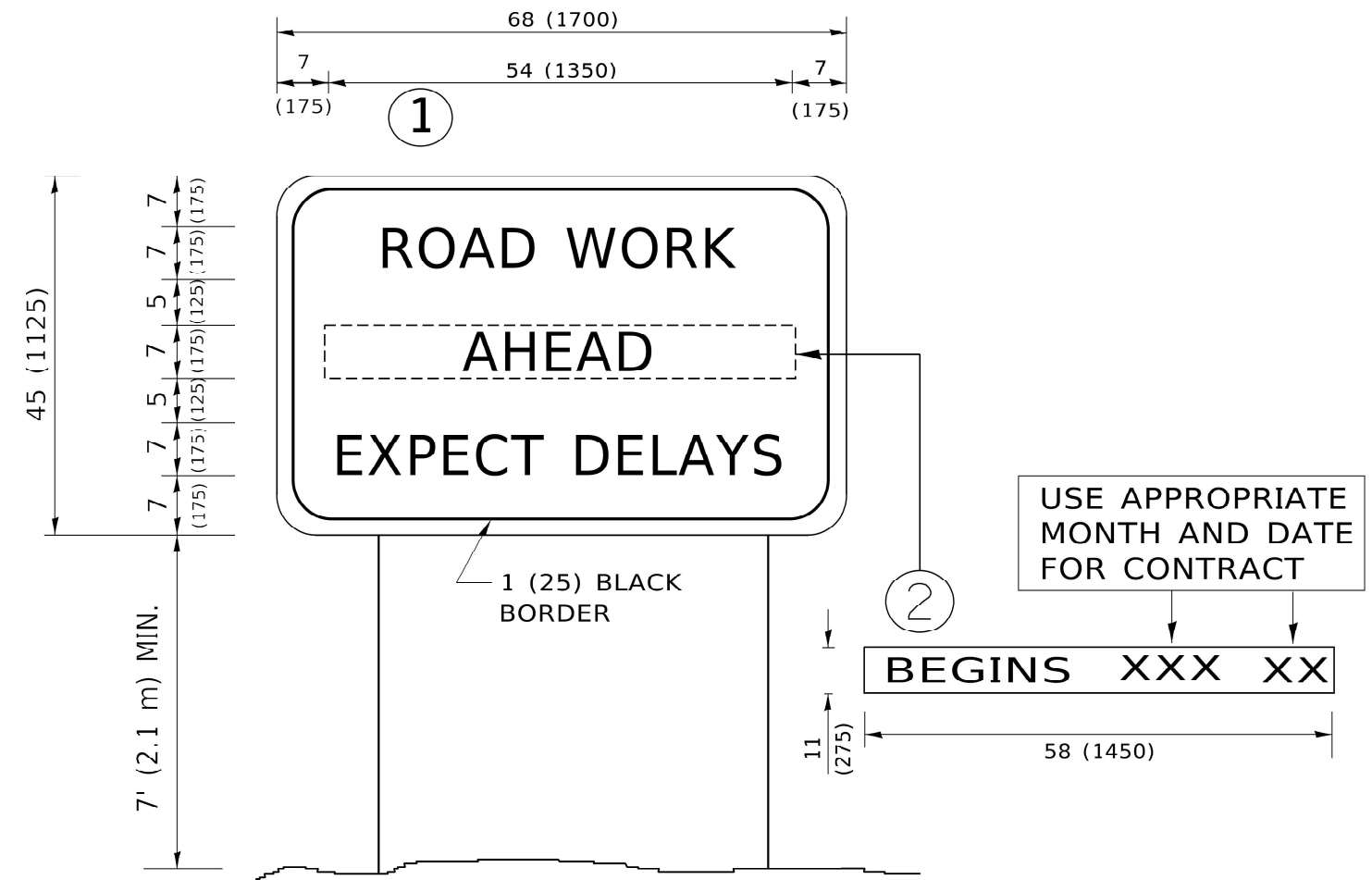
USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PILOT SCALE = 50.0000" / ft.	CHECKED -	REVISED -
PILOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
 FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	899
TC-21		CONTRACT NO. 62R22		
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 " / ft.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	900
TC-22			CONTRACT NO. 62R22	
ILLINOIS FED. AID PROJECT				