SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 10/20/22

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY AA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51294094, Longitude -88.09322597

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 95.5

STRUCT. NO. 099-8309
Station
BORING NO. BSB-06
Station 40+53.51
Offset 84.05ft LT
Ground Surface Elev. 541.53 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 inches of Asphalt	541.28				
8 inches of Concrete	540.61				
Gray, Dry FILL: SAND, with gravel			24		
			17		4
			16		
	538.03				
Brown, Moist FILL: SILTY CLAY, with sand, trace gravel			5		
	537.03		4	0.5	20
Gray, Moist HIGHLY WEATHERED LIMESTONE		-5	23	P	
	535.53				
Auger refusal at 6 feet End of Boring			50/1"		NR
		-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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 11/9/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY DF

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.5124502, Longitude -88.093078

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station
BORING NO. BSB-07
Station 41+30.61
Offset 83.27ft RT
Ground Surface Elev. 536.14 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7 inches of Concrete	535.56				
6 inches of Aggregate Base Course	535.06				11
Auger refusal at 1.08 feet 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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 11/11/22

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY DD

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.5128598, Longitude -88.0928322

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

STRUCT. NO. 099-8309
Station
BORING NO. BSB-08
Station 41+65.07
Offset 77.12ft LT
Ground Surface Elev. 539.00 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Concrete	538.67				
Medium Dense Light Brown, Moist SAND, with gravel (SPG)			7		
			11		7
			6		
	535.50				
Very Dense Light Brown, Moist SANDY LOAM, with gravel (SM)			6		
			8		11
		-5	50/3"		
Auger refusal at 5.5 feet	533.50				
Light Gray LIMESTONE, moderately weathered, heavily fractured, some vertical fractures Run 1: 5.5' - 12.5' Recovery: 92.9% RQD: 0% (Very Poor)					
		-10			
	526.50				
Light Gray LIMESTONE, moderately weathered, heavily fractured Run 2: 12.5' - 21.5' Recovery: 97.2% RQD: 84.7% (Good)					
		-15			
		-20			
	517.50				
End of Boring					
		-25			
		-30			
		-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants

Date 4/30/25

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY SB

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude , Longitude

COUNTY Will DRILLING RIG Geoprobe HAMMER TYPE Auto

DRILLING METHOD HSA HAMMER EFF (%) 99

STRUCT. NO. 099-8309
Station

BORING NO. BSB-012
Station 51+7.08
Offset 110.23ft LT
Ground Surface Elev. 517.78 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose Brown, Moist GRAVEL, with sand (GP)			6		
			4		7
			3		
	514.28				
Medium Stiff Brown, Moist SILTY CLAY, with sand, some gravel (CL/ML)			2		
			3	0.8	11
		-5	4	P	
	511.28				
Auger refusal at 6.5 feet End of Boring					
		-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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants

Date 4/22/25

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY SB

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude , Longitude

COUNTY Will DRILLING RIG CME- 75 HAMMER TYPE Auto

DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station

BORING NO. BSB-013
Station 51+85.54
Offset 7.08ft RT
Ground Surface Elev. 517.66 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Topsoil	517.33				
Very Stiff Light Brown, Moist SILTY CLAY, with sand, little gravel (CL/ML)			15		
			21	2.5	8
			27	P	
	514.16				
Dense Light Brown, Moist GRAVEL, with sand, little clay (GP)			10		
			19		13
		-5	23		
Auger refusal at 6 feet	511.66				
End of Boring					
		-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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants

Date 4/23/25

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY SB

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude , Longitude

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto

DRILLING METHOD HSA HAMMER EFF (%) 99.5

STRUCT. NO. 099-8325
Station

BORING NO. BSB-014
Station 51+81.12
Offset 81.00ft RT
Ground Surface Elev. 518.40 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense Brown, Moist SAND, with gravel/weathered limestone, trace clay (SP)			12		
			10		7
			9		
			7		
			7		7
		-5	8		
	511.90				
Brown, Moist GRAVEL/BOULDERS, little sand (GP) Rock coring attempted at 6.5 to 13.5 feet - boulders encountered					
		-10			
	504.90				
Loose Light Brown, Moist GRAVEL, little clay (GP)			7		
			4		10
		-15	4		
	502.40				
Gray, Moist HIGHLY WEATHERED LIMESTONE			30		
			41		10
			50/5"		
			50/6"		
					13
	498.40	-20			
Gray LIMESTONE, heavily weathered, heavily fractured Run 1: 20'- 27' Recovery: 14.3 % RQD: 0% (Very Poor)					
		-25			
	491.40				
Gray LIMESTONE, heavily weathered, heavily fractured Run 2: 27'-35' Recovery: 25.0% RQD: 4.7% (Very Poor)					
		-30			
	483.40	-35			
End of Boring					
		-40			

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

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/0998309-62R23-S907-SB04.dgn

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

USER NAME = USSJ696614	DESIGNED - GM	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
STRUCTURE NUMBER 099-8309 WB AND 099-8325 EB

SHEET S-321 OF S-333 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	902

CONTRACT NO. 62R23

ILLINOIS | FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
GSG Consultants

SOIL BORING LOG

Page 1 of 1

Date 4/7/25

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY DV

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude , Longitude

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 97.7

STRUCT. NO. 099-8309
Station

BORING NO. BSB-015
Station 53+58.44
Offset 96.41ft LT
Ground Surface Elev. 519.63 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12 inches of Topsoil	518.63				
Brown, Moist FILL: GRAVEL, with sand, trace asphalt			6 7 8		14
Auger refusal at 3 feet	516.63				
Gray LIMESTONE, slightly weathered, moderately to heavily fractured Run 1: 3' - 13' Recovery: 82.5% RQD: 64.6% (Fair)		-5 -10			
Gray LIMESTONE, slightly weathered, moderately fractured, trace shale Run 2: 13' - 18' Recovery: 100% RQD: 60.0% (Fair)	506.63	-15			
End of Boring	501.63	-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 3/18/25

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY EH

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude , Longitude

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 97.7

STRUCT. NO. 099-8309
Station

BORING NO. BSB-016
Station 53+63.41
Offset 9.32ft LT
Ground Surface Elev. 519.87 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	519.37				
Medium Dense Brown, Moist to Wet GRAVEL, with sand, some clay (GP)			10 8 12		28
		-5	8 11 10		15
Very Dense Brown, Moist GRAVEL, with sand (GP)	513.87		7 15 50/4"		
Auger refusal at 8 feet End of Boring	511.87	-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 3/18/25

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY EH

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude , Longitude

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 97.7

STRUCT. NO. 099-8325
Station

BORING NO. BSB-018
Station 53+55.25
Offset 80.51ft RT
Ground Surface Elev. 521.26 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	520.76				
Stiff Gray, Moist SILTY CLAY (CL/ML)	519.76		3 6 6	1.5 P	25
Medium Dense to Dense Brown and Light Brown, Moist to Wet GRAVEL, with sand, little clay (GP)		-5	14 15 20		
			8 10 12		
Auger refusal at 8 feet	513.26				
Light Gray LIMESTONE, slightly to moderately weathered, moderately to heavily fractured, trace chert Run 1: 8' - 18' Recovery: 100% RQD: 46.3% (Poor)		-10 -15			
	503.26	-20			
Light Gray LIMESTONE, slightly weathered, moderately fractured, trace chert Run 2: 18' - 23' Recovery: 100% RQD: 80.8% (Good) *(continued)*	498.26				
End of Boring		-25 -30 -35 -40			

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

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/0998309-62R23-S908-SB05.dgn

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

USER NAME = USSJ696614	DESIGNED - GM	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 5
STRUCTURE NUMBER 099-8309 WB AND 099-8325 EB

SHEET S-322 OF S-333 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	903
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation — SOIL BORING LOG (BSB-19)

Division of Highways
GSG Consultants, Inc.

Page 1 of 1 — Date 10/24/22

ROUTE I-80 — DESCRIPTION I-80 WB over Des Plaines River (CSX) — LOGGED BY EH

SECTION C-91-109-22 — LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51210162, Longitude -88.08788946

COUNTY Will — DRILLING RIG Diedrich D-50 — DRILLING METHOD HSA — HAMMER TYPE Auto — HAMMER EFF (%) 99.5

STRUCT. NO. 099-8309
Station

BORING NO. BSB-19
Station 55+46.73
Offset 83.23ft LT
Ground Surface Elev. 519.66 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

Description	Elev. (ft)	Depth (ft)
3 inches of Asphalt	519.41	
8 inches of Aggregate Subbase	518.75	
Medium Dense to Very Dense Brown, Moist to Wet SAND, with gravel (SPG)	511.66	-5
Very Dense Gray, Moist SAND, with gravel (SPG) Auger refusal at 10.5 feet	509.16	-10
Light Gray LIMESTONE, moderately weathered, moderately fractured Run 1: 10.5' - 19.5' Recovery: 99.1% RQD: 72.2% (Fair)	500.16	-15, -20
Light Gray LIMESTONE, moderately weathered, moderately fractured Run 2: 19.5' - 25.5' Recovery: 91.7% RQD: 70.1% (Fair) *(continued)*	494.16	-25
End of Boring		-30, -35, -40

BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4		
8		8
14		
7		
20		9
50/2"		
8		
19		16
50/2"		
50/4"		
		7

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 — SOIL BORING LOG (BSB-020)

Division of Highways
GSG Consultants

Page 1 of 1 — Date 3/14/25

ROUTE I-80 — DESCRIPTION I-80 WB over Des Plaines River (CSX) — LOGGED BY SB

SECTION C-91-109-22 — LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude , Longitude

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

STRUCT. NO. 099-8309
Station

BORING NO. BSB-020
Station 55+28.91
Offset 11.36ft LT
Ground Surface Elev. 522.43 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

Description	Elev. (ft)	Depth (ft)
3 inches of Topsoil	522.18	
Medium Dense Brown, Wet GRAVEL, some sand, trace clay (GP)	518.93	
Stiff Brown and Black, Moist SILTY CLAY, some gravel, little sand (CL/ML)	516.43	-5
Brown, Moist WEATHERED LIMESTONE, some gravel, some sand Auger refusal at 9 feet	513.43	
Gray LIMESTONE, slightly weathered, heavily fractured, trace vugs Run 1: 9' - 14' Recovery: 91.7% RQD: 45.8% (Poor)	508.43	-10
Gray and Brown LIMESTONE, moderately to heavily weathered, heavily fractured Run 2: 14' - 18' Recovery: 100% RQD: 8.3% (Very Poor)	504.43	-15, -20
Light Gray LIMESTONE, moderately weathered, moderately to heavily fractured Run 3: 18' - 24' Recovery: 92.0% RQD: 35.8% (Poor) *(continued)*	498.43	
End of Boring		-25, -30, -35, -40

BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
2		
10		16
7		
4		
8	1.0	22
5	S	
6		
19		9
16		
50/5"		
		5

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 — SOIL BORING LOG (BSB-021)

Division of Highways
GSG Consultants

Page 1 of 1 — Date 3/14/25

ROUTE I-80 — DESCRIPTION I-80 EB over Des Plaines River (CSX) — LOGGED BY SB

SECTION C-91-109-22 — LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude , Longitude

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

STRUCT. NO. 099-8325
Station

BORING NO. BSB-021
Station 55+19.39
Offset 5.44ft RT
Ground Surface Elev. 522.20 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

Description	Elev. (ft)	Depth (ft)
4 inches of Topsoil	521.86	
Medium Dense Brown, Wet GRAVEL, trace roots, trace clay (GP)	518.70	
Very Dense Light Brown, Moist GRAVEL, some sand (GP) Auger refusal at 5.5 feet	516.70	-5
Gray, Moist WEATHERED LIMESTONE	515.70	
End of Boring		-10, -15, -20

BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4		
8		22
10		
8		
14		5
50/2"		

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)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/0998309-62R23-S909-SB06.dgn

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614 PLOT SCALE = 0:2 ':" / in. PLOT DATE = 11/5/2025	DESIGNED - GM CHECKED - PJL DRAWN - GM CHECKED - PJL	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 6
STRUCTURE NUMBER 099-8309 WB AND 099-8325 EB

SHEET S-323 OF S-333 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	904

CONTRACT NO. 62R23

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation — SOIL BORING LOG (BSB-22)

Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 10/18/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51165701, Longitude -88.08823718

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station

BORING NO. BSB-22
Station 54+86.60
Offset 94.82ft RT
Ground Surface Elev. 519.88 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 506.9 ft ▼
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
4 inches of Asphalt	519.55				
Brown, Black and Gray, Moist FILL: SAND AND GRAVEL, trace clay			11 / 9 / 5		10
			3 / 1 / 1		NR
		-5			
			7 / 19 / 29		8
	512.38				
Very Dense Light Brown and Gray, Dry to Moist SAND, with gravel (SPG)			34 / 50/3"		3
		-10	50/3"		5
	507.38	▼			
Very Dense Brown, Moist GRAVEL, with sand (GPS)	505.88		50/5"		12
Auger refusal at 14 feet					
Light Gray LIMESTONE, moderately weathered, highly fractured, some vugs Run 1: 14' - 19' Recovery: 100% RQD: 6.6% (Very Poor)		-15			
	500.88	-20			
Light Gray LIMESTONE, moderately weathered, moderately fractured, some vugs Run 2: 19' - 29' Recovery: 85.8% RQD: 41.7% (Poor) *(continued)*		-25			
End of Boring	490.88	-30			
		-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG (BSB-023)

Division of Highways
GSG Consultants

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Date 6/3/25

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY SB

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35N, RNG. 10E,
Latitude , Longitude

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

STRUCT. NO. 099-8309
Station

BORING NO. BSB-023
Station 56+50.39
Offset 82.55ft LT
Ground Surface Elev. 520.15 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

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
3 inches of Topsoil	519.90				
Brown and Black, Moist FILL: GRAVEL, trace brick, trace clay	517.15		6 / 9 / 14		14
Gray, Moist WEATHERED LIMESTONE	515.65		50/6"		
Gray LIMESTONE, slightly to moderately weathered, moderately to heavily fractured, some vertical fractures, trace chert Run 1: 4.5' - 14.5' Recovery: 73.5% RQD: 47.3% (Poor)	505.65	-5, -10			
Gray LIMESTONE, slightly weathered, slightly fractured, some vertical fractures, trace chert Run 2: 14.5' - 19.5' Recovery: 100% RQD: 87.5% (Good)	500.65	-15			
End of Boring		-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 — SOIL BORING LOG (BSB-25)

Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 10/17/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY EH

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51165023, Longitude -88.08771466

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 99.5

STRUCT. NO. 099-8325
Station

BORING NO. BSB-25
Station 56+27.19
Offset 68.00ft RT
Ground Surface Elev. 520.95 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

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
2 inches of Asphalt	520.78				
Light Brown, Moist FILL: SAND AND GRAVEL	519.95				
Medium Dense to Very Dense Brown, Dry to Moist GRAVEL, with sand (GPS)			29 / 24 / 14		9
		-5	9 / 9 / 9		NR
			50/6"		NR
		-10	12 / 50/4"		1
			50/2"		NR
Auger refusal at 14 feet End of Boring	506.95	-15	50/3"		NR
		-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

Illinois Department of Transportation
Division of Highways
GSG Consultants

Page 1 of 1 | Date 4/9/25

ROUTE I-80 | DESCRIPTION I-80 WB over Des Plaines River (CSX) | LOGGED BY DV

SECTION C-91-109-22 | LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude, Longitude

COUNTY Will | DRILLING RIG Diedrich D-50 | HAMMER TYPE Auto

DRILLING METHOD HSA | HAMMER EFF (%) 97.7

STRUCT. NO. 099-8309
Station

BORING NO. BSB-026
Station 58+21.42
Offset 88.12ft LT
Ground Surface Elev. 521.90 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
1 inch of Gravel	521.82				
Dark Brown, Moist FILL: SILTY CLAY, with gravel	520.40		5		
Medium Dense to Dense Brown and Gray, Moist SAND, little gravel (SP)			9		7
			7		
			8		
			14		8
		-5	20		
			13		
			15		6
			15		
	513.40				
Very Dense Gray, Moist GRAVEL, with rock fragments (GP)			25		
			50/2"		8
Auger refusal at 10 feet	511.90	-10			
Gray LIMESTONE, slightly weathered, slightly to moderately fractured, trace chert Run 1: 10' - 20' Recovery: 100% RQD: 69.2% (Fair)					
		-15			
	501.90	-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray LIMESTONE, slightly weathered, slightly fractured, trace chert Run 2: 20' - 25' Recovery: 95.0% RQD: 95.0% (Excellent)	496.90	-25			
End of Boring					
		-30			
		-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

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ROUTE I-80 | DESCRIPTION I-80 EB over Des Plaines River (CSX) | LOGGED BY EH

SECTION C-91-109-22 | LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51166508, Longitude -88.08694055

COUNTY Will | DRILLING RIG Diedrich D-50 | HAMMER TYPE Auto

DRILLING METHOD HSA | HAMMER EFF (%) 99.5

STRUCT. NO. 099-8325
Station

BORING NO. BSB-27
Station 58+33.46
Offset 19.51ft RT
Ground Surface Elev. 521.77 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 inches of Asphalt	~~521.52~~				
Light Gray, Moist FILL: SAND AND GRAVEL	520.77		9		
Brown, Moist FILL: SANDY CLAY LOAM, with gravel			11		12
			7		
	518.27				
Loose to Extremely Dense Brown and Light Brown, Dry to Wet SAND, with gravel (SPG)			2		
			5		6
		-5	3		
			2		
			9		4
			7		
			7		
			5		19
		-10	7		
			10		
			30		5
			50/3"		
			24		
			37		3
		-15	50/4"		
			50/2"		
					NR
Auger refusal at 18.5 feet	503.27				
			50/1"		
					NR
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 1: 18.5' - 27.5' Recovery: 99.1% RQD: 70.8% (Fair) *(continued)*					
		-25			
	494.27				
Light Gray LIMESTONE, moderately weathered, moderately fractured, some vugs Run 2: 27.5' - 33.5' Recovery: 82.6% RQD: 56.9% (Fair)		-30			
	488.27				
End of Boring					
		-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants

Page 1 of 1 | Date 4/9/25

ROUTE I-80 | DESCRIPTION I-80 EB over Des Plaines River (CSX) | LOGGED BY DV

SECTION C-91-109-22 | LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude, Longitude

COUNTY Will | DRILLING RIG Diedrich D-50 | HAMMER TYPE Auto

DRILLING METHOD HSA | HAMMER EFF (%) 97.7

STRUCT. NO. 099-8325
Station

BORING NO. BSB-028
Station 58+38.17
Offset 102.13ft RT
Ground Surface Elev. 522.97 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
1 inch of Topsoil	522.89				
Dark Gray, Wet FILL: SAND, with gravel, trace clay, trace brick			2		
			3		23
			3		
	519.47				
Dense Gray, Wet SAND, with gravel (SP)			3		
			10		18
		-5	38		
Auger refusal at 5.5 feet	517.47				
HEAVILY WEATHERED LIMESTONE					
		-10			
	512.47				
Gray LIMESTONE, slightly weathered, slightly to moderately fractured Run 1: 10.5' - 15.5' Recovery: 94.2% RQD: 69.2% (Fair)					
		-15			
	507.47				
Gray LIMESTONE, slightly weathered, slightly fractured Run 2: 15.5' - 25.5' Recovery: 95.4% RQD: 86.3% (Good)					
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray LIMESTONE, slightly weathered, slightly fractured Run 2: 15.5' - 25.5' Recovery: 95.4% RQD: 86.3% (Good) *(continued)*					
		-25			
	497.47				
End of Boring					
		-30			
		-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/0998309-62R23-S911-S808.dgn

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

USER NAME = USSJ696614	DESIGNED - GM	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 8
STRUCTURE NUMBER 099-8309 WB AND 099-8325 EB

SHEET S-325 OF S-333 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	906
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants

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Date 4/9/25

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY DV

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude , Longitude

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 97.7

STRUCT. NO. 099-8309
Station
BORING NO. BSB-029
Station 59+68.11
Offset 100.33ft LT
Ground Surface Elev. 521.59 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
1 inch of Gravel	521.51				
Dark Gray and Brown, Moist to Very Moist FILL: SILTY CLAY, with gravel			3 6 7		26
	517.59		6		
Very Dense Brown, Moist GRAVEL, with sand (GP)		-5	50/3"		12
Auger refusal at 5.5 feet	516.09				
Gray LIMESTONE, slightly to moderately weathered, moderately fractured Run 1: 5.5' - 15.5' Recovery: 100% RQD: 57.5% (Fair)		-10			
	506.09	-15			
Gray LIMESTONE, slightly weathered, slightly fractured, trace chert Run 2: 15.5' - 20.5' Recovery: 95.8% RQD: 95.8% (Excellent)		-20			
	501.09				
End of Boring		-25 -30 -35 -40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

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Date 10/18/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY EH

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51165387, Longitude -88.08648757

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 99.5

STRUCT. NO. 099-8325
Station
BORING NO. BSB-30
Station 59+55.89
Offset 1.59ft RT
Ground Surface Elev. 521.77 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	521.27				
Brown, Wet FILL: SANDY LOAM, with gravel, trace organics			6 6 10		23
	518.27				
Very Dense Light Brown, Dry SAND, with gravel (SPG)		-5	11 27 40		4
			50/2"		NR
Auger refusal at 8.5 feet	513.27				
End of Boring		-10	50/1"		NR
		-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)

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

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Date 10/19/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY EH

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51141626, Longitude -88.08657338

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 99.5

STRUCT. NO. 099-8325
Station
BORING NO. BSB-31
Station 59+46.62
Offset 90.81ft RT
Ground Surface Elev. 523.33 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	522.83				
Dark Gray, Moist to Very Moist FILL: SILTY CLAY, with gravel			6 8 7		15
		-5	4 3 3	1.5 P	39
	517.33				
Medium Dense to Extremely Dense Light Brown, Moist GRAVEL, with sand, trace clay seams (GPS)			7 15 10		7
			15 33 50/3"		8
Auger refusal at 10 feet	513.33	-10			
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 1: 10' - 20' Recovery: 100% RQD: 93% (Excellent)		-15			
	503.33	-20			
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 2: 20' - 27' Recovery: 100% RQD: 93% (Excellent)		-25			
	496.33				
End of Boring		-30 -35 -40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

Page 1 of 1 — Date 10/19/22

ROUTE I-80 — DESCRIPTION I-80 WB over Des Plaines River (CSX) — LOGGED BY AA

SECTION C-91-109-22 — LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51252787, Longitude -88.08878281

COUNTY Will — DRILLING RIG Diedrich D-50 — HAMMER TYPE Auto — DRILLING METHOD HSA — HAMMER EFF (%) 95.5

STRUCT. NO. 099-8309 — Station

BORING NO. BSB-103 — Station 52+75.49 — Offset 185.28ft LT — Ground Surface Elev. 522.12 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

Description	Elev.	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5 inches of Asphalt	521.70			
7 inches of Aggregate Subbase	521.12			
Light Brown, Moist FILL: SAND, with gravel, trace clay	518.62	6 / 7 / 7		5
Medium Dense Dark Brown, Moist SAND, trace gravel (SP)	516.12	11 / 7 / 7		10
Very Dense Light Brown, Dry SAND, trace gravel (SP)	515.62	50/2"		2
Gray, Moist HIGHLY WEATHERED LIMESTONE	513.12	50/0.5"		NR
Auger refusal at 9 feet 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)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

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ROUTE I-80 — DESCRIPTION I-80 WB over Des Plaines River (CSX) — LOGGED BY EH

SECTION C-91-109-22 — LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51257197, Longitude -88.08796413

COUNTY Will — DRILLING RIG Diedrich D-50 — HAMMER TYPE Auto — DRILLING METHOD HSA — HAMMER EFF (%) 99.5

STRUCT. NO. 099-8309 — Station

BORING NO. BSB-104 — Station 54+91.69 — Offset 246.82ft LT — Ground Surface Elev. 520.03 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

Description	Elev.	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Asphalt	519.70			
8 inches of Aggregate Subbase	519.03			
Dark Gray, Moist FILL: SILTY CLAY, with sand and gravel	516.53	4 / 14 / 40		10
Medium Dense to Very Dense Light Brown, Moist SAND, with gravel and cobbles (SPG)	504.03	7 / 10 / 8		6
		4 / 5 / 8		6
		35 / 50/2"		NR
		16 / 5 / 12		NR
		20 / 17 / 17		5
Very Dense Gray, Moist GRAVEL, with sand and cobbles (GPS)	501.53	50/2"		NR
Auger refusal at 18.5 feet		50/2"		NR
Light Gray LIMESTONE, moderately weathered, heavily fractured, some vugs. Run 1: 18.5' - 26.5' Recovery: 100% RQD: 70% (Fair) *(continued)*	493.53			
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)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

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ROUTE I-80 — DESCRIPTION I-80 WB over Des Plaines River (CSX) — LOGGED BY AA

SECTION C-91-109-22 — LOCATION SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51257437, Longitude -88.08735683

COUNTY Will — DRILLING RIG Diedrich D-50 — HAMMER TYPE Auto — DRILLING METHOD HSA — HAMMER EFF (%) 95.5

STRUCT. NO. 099-8309 — Station

BORING NO. BSB-105 — Station 56+54.33 — Offset 281.66ft LT — Ground Surface Elev. 519.62 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

Description	Elev.	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5 inches of Asphalt	519.21			
7 inches of Aggregate Subbase	518.62			
Gray, Moist to Wet FILL: SAND, with gravel		13 / 21 / 10		3
		11 / 11 / 4		5
Clay seam at 6 feet	513.62			
Gray, Moist HIGHLY WEATHERED LIMESTONE		50/2"		24
Auger refusal at 8.5 feet	511.12			
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)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/0998309-62R23-S914-SB11.dgn

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

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Date 10/18/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51161417, Longitude -88.08913642

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station

BORING NO. BSB-106
Station 52+48.70
Offset 160.41ft RT
Ground Surface Elev. 518.95 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 inches of Topsoil	~~518.70~~				
Dark Brown, Moist FILL: SAND, with gravel, trace clay			10 15 18		11
	516.45				
Medium Dense Light Brown and Brown, Dry to Moist SAND, with gravel (SPG)		-5	8 10 19		5
	512.95				
Boulders and Cobbles	~~512.65~~		50/5"		
Light Gray LIMESTONE, heavily weathered, heavily fractured, some cobbles Run 1: 6' - 11' Recovery: 30% RQD: 15% (Very Poor)		-10			5
	507.95				
Sand and gravel seam from 11 to 13 feet					
	505.95				
Light Gray LIMESTONE, heavily weathered, heavily fractured, with cobbles Run 2: 13' - 16.5' Recovery: 14% RQD: 0% (Very Poor)		-15			
	502.45				
End of Boring		-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, Inc.

SOIL BORING LOG

Page 1 of 1

Date 10/20/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY AA

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51163115, Longitude -88.08868351

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 95.5

STRUCT. NO. 099-8325
Station

BORING NO. BSB-107
Station 53+68.86
Offset 129.06ft RT
Ground Surface Elev. 518.40 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Asphalt	518.07				
8 inches of Aggregate Subbase	517.40				
Brown, Moist FILL: SAND, with gravel Clay seam at 1 foot			10 15 10		10
	514.90				
Loose Brown, Dry GRAVEL, with cobbles		-5	10 4 5		2
			7 5 6		NR
Auger refusal at 8.5 feet	509.90				
End of Boring		-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, Inc.

SOIL BORING LOG

Page 1 of 1

Date 10/19/22

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY AA

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51196878, Longitude -88.08675258

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 95.5

STRUCT. NO. 099-8309
Station

BORING NO. BSB-108
Station 58+63.22
Offset 98.95ft LT
Ground Surface Elev. 521.87 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5 inches of Asphalt	521.45				
7 inches of Aggregate Subbase	520.87				
Black, Very Moist FILL: SILTY CLAY, with gravel, trace sand			5 5 10	1.5 P	26
	518.37				
Medium Dense to Very Dense Brown, Moist SAND, with gravel		-5	11 50/2"		6
			9 6 5		9
			50/5"		10
Auger refusal at 10 feet	511.87	-10			
End of Boring		-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, Inc.

SOIL BORING LOG

Page 1 of 1

Date 11/11/22

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY DD

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.5124772, Longitude -88.0926067

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

STRUCT. NO. 099-8309
Station
BORING NO. BSB-109
Station 42+54.10
Offset 46.71ft RT
Ground Surface Elev. 533.95 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7 inches of Concrete	533.37				
Dark Brown and Gray, Moist FILL: GRAVEL, with sand			9 12 7		8
	530.45				
Dark Brown and Gray, Very Moist FILL: SILTY CLAY, with sand and gravel Cobbles at 3.5 feet	528.95	-5	2 3 6	1.0 P	35
Very Dense Brown, Moist SAND, with gravel (SPG)			50/4"		9
Auger refusal at 8.5 feet	525.45		50/3"		
Light Gray LIMESTONE, heavily weathered, heavily fractured, some vertical fractures, some vugs Run 1: 8.5' - 13.5' Recovery: 100% RQD: 31.7% (Poor)		-10			6
	520.45				
End of Boring		-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, Inc.

SOIL BORING LOG

Page 1 of 1

Date 11/9/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY DF

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.5127175, Longitude -88.0923652

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station
BORING NO. BSB-110
Station 43+00.92
Offset 52.51ft LT
Ground Surface Elev. 534.96 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9 inches of Concrete 6 inches of Aggregate Base Course	534.21 533.71 533.54		7		
Brown, Moist FILL: SILTY CLAY, trace gravel			10 8		19
Black and Dark Brown, Wet FILL: SILTY SAND, trace gravel, organics, and clay seams	530.96		5		
Dark Brown, Wet FILL: SILTY SAND, trace gravel, and metal fragments	530.14	-5	6 50/4"	0.5 P	24
Gray, Dry HIGHLY WEATHERED LIMESTONE			50/1"		NR
Auger refual at 8.75 feet	526.21		50/3"		2
End of Boring		-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, Inc.

SOIL BORING LOG

Page 1 of 1

Date 10/26/22

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51265354, Longitude -88.09163172

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8309
Station
BORING NO. BSB-201
Station 45+2.33
Offset 70.72ft LT
Ground Surface Elev. 516.76 ft

Surface Water Elev. 538.76 ft
Stream Bed Elev. 516.76 ft
Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Soft to Medium Stiff Dark Gray, Very Moist SILTY CLAY (CL/ML)			WH WH WH	0.0 P	101
	511.76	-5	WH WH 4	0.8 B	70
Medium Stiff Dark Gray, Very Moist SILTY CLAY, with gravel (CL/ML)	510.76		50/4"		
Very Dense Gray, Wet WEATHERED LIMESTONE					17
	507.76				
Auger refusal at 9 feet					
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 1: 9' - 19' Recovery: 100% RQD: 70.8% (Fair) 1 inch clay seam at 9.5 feet		-10 -15			
	497.76	-20			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 2: 19' - 29' Recovery: 100% RQD: 76.6% (Good) *(continued)*		-25			
	487.76				
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 3: 29' - 39' Recovery: 100% RQD: 65.0% (Fair)		-30 -35			
	477.76				
End of Boring		-40			

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

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/099830-62R23-S915-S812.dgn

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

USER NAME = USSJ696614	DESIGNED - GM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - PJL	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

BORING LOGS 12
STRUCTURE NUMBER 099-8309 WB AND 099-8325 EB

SHEET S-329 OF S-333 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	910
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

Page 1 of 1 — Date 10/27/22

ROUTE	I-80
DESCRIPTION	I-80 WB over Des Plaines River (CSX)
LOGGED BY	KA
SECTION	C-91-109-22
LOCATION	SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51250598, Longitude -88.09167086
COUNTY	Will
DRILLING RIG	CME-75
DRILLING METHOD	HSA
HAMMER TYPE	Auto
HAMMER EFF (%)	79.8
STRUCT. NO.	099-8309
Station	
BORING NO.	BSB-202
Station	45+2.82
Offset	15.90ft LT
Ground Surface Elev.	516.91 ft
Surface Water Elev.	538.66 ft
Stream Bed Elev.	516.91 ft
Groundwater Elev.: First Encounter	N/A ft
Upon Completion	N/A ft
After ___ Hrs.	N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Stiff Dark Gray, Very Moist SILTY CLAY (CL/ML)			WH		
			WH		99
			WH		
			WH		
			WH	0.8	64
		-5	WH	B	
Gray, Wet WEATHERED LIMESTONE Auger refusal at 6.75 feet	510.66		50/3"		NR
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 1: 6.75' - 16.75' Recovery: 100% RQD: 65% (Fair)	510.16	-10			
		-15			
Light Gray LIMESTONE, moderately weathered, moderately fractured, some vugs Run 2: 16.75' - 26.75' Recovery: 95.8% RQD: 50.8% (Fair)	500.16	-20			
Clay seam at 17.25 feet Light Gray LIMESTONE, moderately weathered, moderately fractured, some vugs Run 2: 16.75' - 26.75' Recovery: 95.8% RQD: 50.8% (Fair) *(continued)*		-25			
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 3: 26.75' - 36.75' Recovery: 100% RQD: 76.3% (Good)	490.16	-30			
		-35			
End of Boring	480.16	-40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

Page 1 of 2 — Date 11/1/22

ROUTE	I-80
DESCRIPTION	I-80 WB over Des Plaines River (CSX)
LOGGED BY	KA
SECTION	C-91-109-22
LOCATION	SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51242703, Longitude -88.09013271
COUNTY	Will
DRILLING RIG	CME-75
DRILLING METHOD	HSA
HAMMER TYPE	Auto
HAMMER EFF (%)	79.8
STRUCT. NO.	099-8309
Station	
BORING NO.	BSB-203
Station	49+21.08
Offset	73.79ft LT
Ground Surface Elev.	511.82 ft
Surface Water Elev.	538.82 ft
Stream Bed Elev.	511.82 ft
Groundwater Elev.: First Encounter	N/A ft
Upon Completion	N/A ft
After ___ Hrs.	N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray and Black, Very Moist SILTY CLAY, trace gravel (CL/ML)					
Gray, Wet WEATHERED LIMESTONE Auger refusal at 1.5 feet	510.82		50/2"		84
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 1: 1.5' - 11.5' Recovery: 100% RQD: 72% (Fair)	510.32	-5			
		-10			
Light Gray LIMESTONE, moderately weathered, heavily fractured, some vugs Run 2: 11.5' - 21.5' Recovery: 100% RQD: 65.4% (Fair)	500.32	-15			
		-20			
Light Gray LIMESTONE, moderately weathered, heavily fractured, some vugs Run 3: 21.5' - 31.5' Recovery: 100% RQD: 37.5% (Poor)	490.32	-25			
		-30			
Light Gray LIMESTONE, moderately weathered, heavily fractured, some vugs Run 4: 31.5' - 41.5' Recovery: 100% RQD: 63.3% (Fair)	480.32	-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

Page 2 of 2 — Date 11/1/22

ROUTE	I-80
DESCRIPTION	I-80 WB over Des Plaines River (CSX)
LOGGED BY	KA
SECTION	C-91-109-22
LOCATION	SEC. 16, TWP. 35 N, RNG. 10 E, Latitude 41.51242703, Longitude -88.09013271
COUNTY	Will
DRILLING RIG	CME-75
DRILLING METHOD	HSA
HAMMER TYPE	Auto
HAMMER EFF (%)	79.8
STRUCT. NO.	099-8309
Station	
BORING NO.	BSB-203
Station	49+21.08
Offset	73.79ft LT
Ground Surface Elev.	511.82 ft
Surface Water Elev.	538.82 ft
Stream Bed Elev.	511.82 ft
Groundwater Elev.: First Encounter	N/A ft
Upon Completion	N/A ft
After ___ Hrs.	N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
End of Boring	470.32	-45			
		-50			
		-55			
		-60			

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 — SOIL BORING LOG (Boring BSB-204)

Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 11/3/22

ROUTE I-80 DESCRIPTION I-80 WB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51228169, Longitude -88.09020639

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8309
Station

BORING NO. BSB-204
Station 49+12.14
Offset 17.82ft LT
Ground Surface Elev. 512.54 ft

Surface Water Elev. 539.04 ft
Stream Bed Elev. 512.54 ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Soft Dark Gray and Black, Very Moist SILTY CLAY (CL/ML)	511.04		WH		
Auger refusal at 1.5 feet			WH	0.0	122
			WH	P	
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs. Run 1: 1.5' - 6.5'; Recovery: 100%; RQD: 90% (Excellent)	506.04	-5			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs. Run 2: 6.5' - 11.5'; Recovery: 85%; RQD: 73% (Fair)	501.04	-10			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs. Run 3: 11.5' - 21.5'; Recovery: 100%; RQD: 79% (Good)		-15 / -20			
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs. Run 4: 21.5' - 31.5'; Recovery: 100%; RQD: 67.5% (Fair)	491.04 (top) / 481.04	-25 / -30			
End of Boring	481.04	-35 / -40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG (Boring BSB-205)

Division of Highways
GSG Consultants, Inc.

Page 1 of 1
Date 10/28/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51240888, Longitude -88.09178768

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station

BORING NO. BSB-205
Station 44+78.72
Offset 25.27ft RT
Ground Surface Elev. 519.32 ft

Surface Water Elev. 538.82 ft
Stream Bed Elev. 519.32 ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Soft to Medium Stiff Dark Gray, Very Moist SILTY CLAY (CL/ML)			WH		
			WH	0.2	103
			WH	P	
			WH		
			2	0.8	78
	514.32	-5	4	B	
Medium Dense to Very Dense Gray, Moist to Wet GRAVEL, trace clay seams (GP)			4		
			10		17
			5		
			29		
	509.32	-10	50/5"		12
Auger refusal at 10 feet. Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs. Run 1: 10' - 20'; Recovery: 100%; RQD: 75.0% (Fair). Clay seam at 19 feet	499.32	-15 / -20			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs. Run 2: 20' - 30'; Recovery: 100%; RQD: 89.1% (Good)	489.32	-25 / -30			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs. Run 3: 30' - 40'; Recovery: 100%; RQD: 85.4% (Good)	479.32	-35 / -40			
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)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 10/31/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51229248, Longitude -88.09185124

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station
BORING NO. BSB-206
Station 44+70.35
Offset 70.35ft RT
Ground Surface Elev. 519.72 ft

Surface Water Elev. 538.22 ft
Stream Bed Elev. 519.72 ft
Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ____ Hrs. N/A ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Soft Dark Gray, Very Moist SILTY CLAY, trace debris (CL/ML)			WH 11 7	 0.4 B	 98
Medium Dense Light Gray, Wet GRAVEL (GP)	516.22	-5	4 5 6		19
Loose to Very Dense Light Gray, Wet GRAVEL, with sand (GPS)	513.72		1 3 3 3 50/5"		24 22
Gray, Wet WEATHERED LIMESTONE Auger refusal at 11 feet	509.22	-10	50/1"		
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 1: 11' - 21' Recovery: 100% RQD: 72% (Fair)	508.72	-15 -20			NR
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 2: 21' - 31' Recovery: 100% RQD: 74.5% (Fair)	498.72	-25 -30			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 3: 31' - 41' Recovery: 100% RQD: 82% (Good)	488.72	-35 -40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 10/31/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,
Latitude 41.51229248, Longitude -88.09185124

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station
BORING NO. BSB-206
Station 44+70.35
Offset 70.35ft RT
Ground Surface Elev. 519.72 ft

Surface Water Elev. 538.22 ft
Stream Bed Elev. 519.72 ft
Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ____ Hrs. N/A ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
End of Boring	478.72	-45 -50 -55 -60			

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)

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/0998309-62R23-S918-SB15.dgn

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

USER NAME = USSJ696614	DESIGNED - GM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - PJL	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

BORING LOGS 15
STRUCTURE NUMBER 099-8309 WB AND 099-8325 EB

SHEET S-332 OF S-333 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	913
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 11/4/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION , **SEC.** 16, **TWP.** 35 N, **RNG.** 10 E,
Latitude 41.51218307, **Longitude** -88.09031085

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station

BORING NO. BSB-207
Station 48+91.48
Offset 23.20ft RT
Ground Surface Elev. 512.61 ft

Surface Water Elev. 539.11 ft
Stream Bed Elev. 512.61 ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Soft Dark Gray and Black, Very Moist SILTY CLAY (CL/ML) Auger refusal at 1.5 feet	511.11		WH WH WH	0.0 P	106
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 1: 2' - 12' Recovery: 96% RQD: 88% (Good)	500.61	-5 -10			
Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs Run 2: 12' - 22' Recovery: 100% RQD: 87.5% (Good)	490.61	-15 -20			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 3: 22' - 32' Recovery: 100% RQD: 81% (Good)	480.61	-25 -30			
End of Boring		-35 -40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 11/2/22

ROUTE I-80 DESCRIPTION I-80 EB over Des Plaines River (CSX) LOGGED BY KA

SECTION C-91-109-22 LOCATION , **SEC.** 16, **TWP.** 35 N, **RNG.** 10 E,
Latitude 41.5120369, **Longitude** -88.09039398

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 79.8

STRUCT. NO. 099-8325
Station

BORING NO. BSB-208
Station 48+80.07
Offset 79.99ft RT
Ground Surface Elev. 512.89 ft

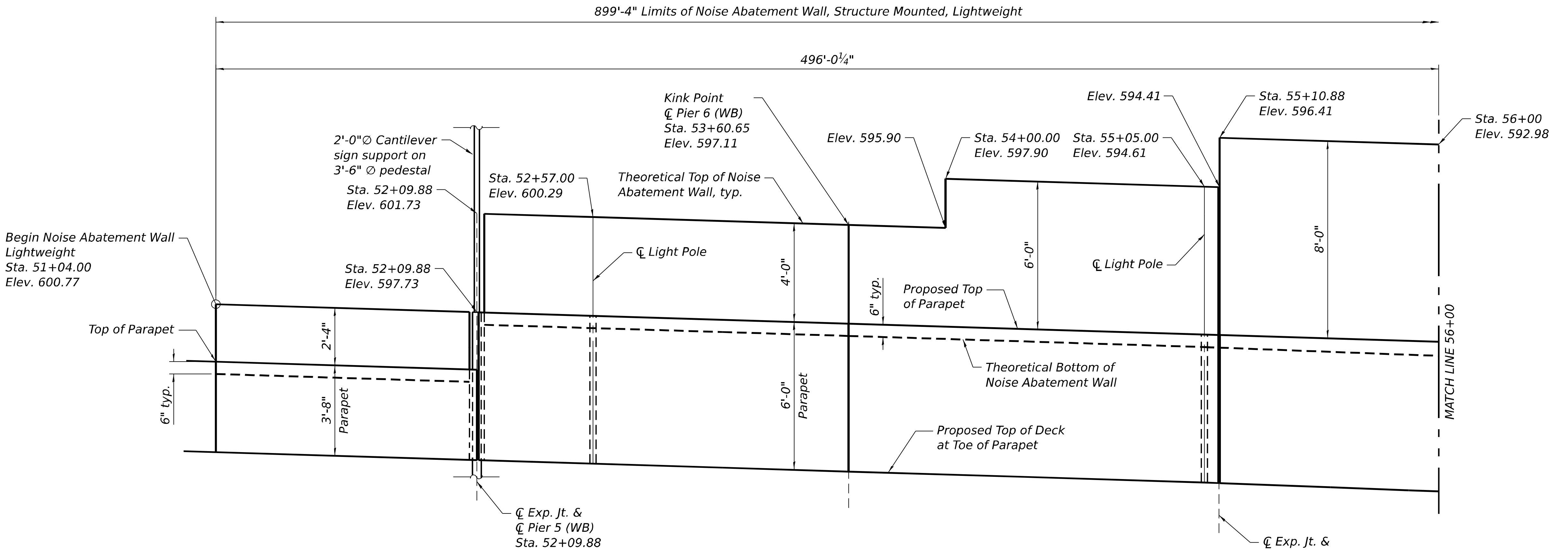
Surface Water Elev. 538.89 ft
Stream Bed Elev. 512.89 ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Soft Dark Gray and Black, Very Moist SILTY CLAY, trace organics (CL/ML) Auger refusal at 3.5 feet	509.39		WH WH WH 50/1"	0.0 P	114 NR
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 1: 3.5' - 13.5' Recovery: 97.5% RQD: 82.5% (Good)	499.39	-5 -10			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 2: 13.5' - 23.5' Recovery: 100% RQD: 87.5% (Good)		-15 -20			
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 2: 13.5' - 23.5' Recovery: 100% RQD: 87.5% (Good) *(continued)*	489.39				
Light Gray LIMESTONE, slightly weathered, slightly fractured, some vugs Run 3: 23.5' - 33.5' Recovery: 100% RQD: 84% (Good)	479.39	-25 -30			
End of Boring		-35 -40			

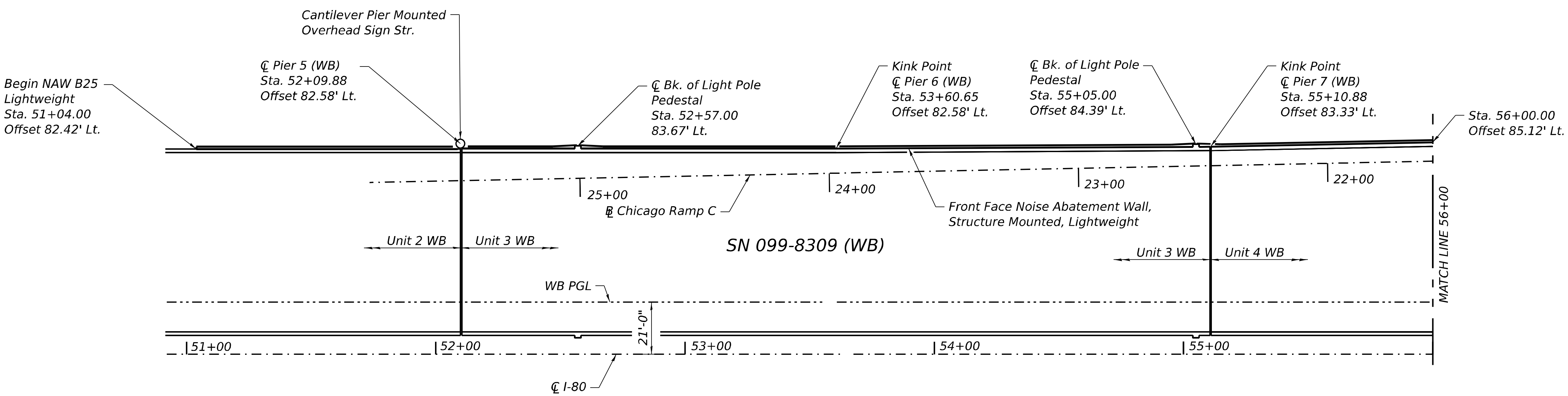
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



DEVELOPED ELEVATION

(Looking North)



PLAN

NOTES:

1. Stations and offsets are measured from the Proposed ℄ I-80.
2. Offsets shown for the start, end, and kink points of the Noise Abatement Wall are to the back face of the parapet unless otherwise noted.
3. See sheet SA-3 for General Notes, and Total Bill of Material.

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

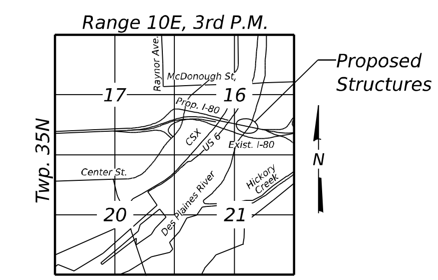
fy = 50,000 psi (Struct. Steel, M270 Grade 50 posts)
fy = 36,000 psi (Struct. Steel, M270 Grade 36, all other structural steel)

DESIGN LOADS

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

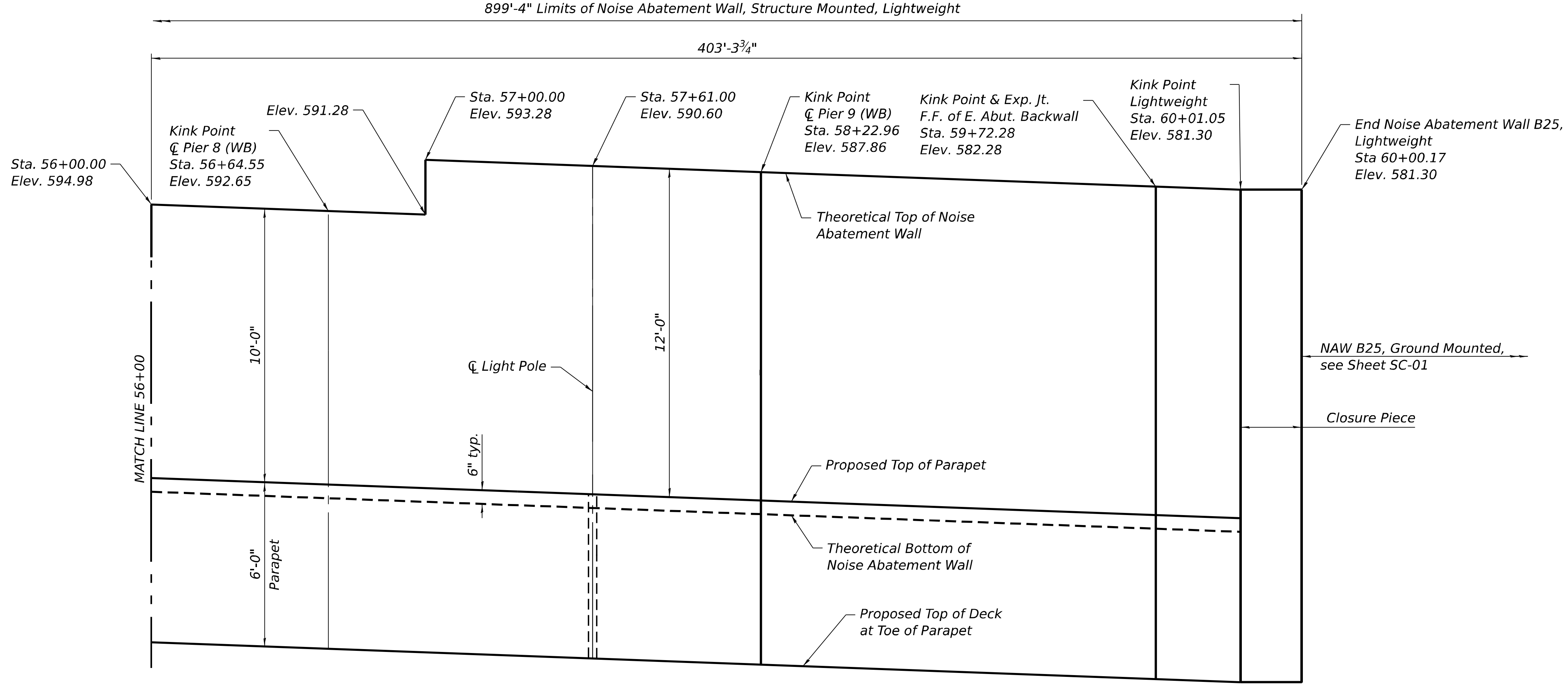
11/5/2025

PATRICK J. LAUX, P.E., S.E.
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-007655
EXPIRES 11-30-2026.



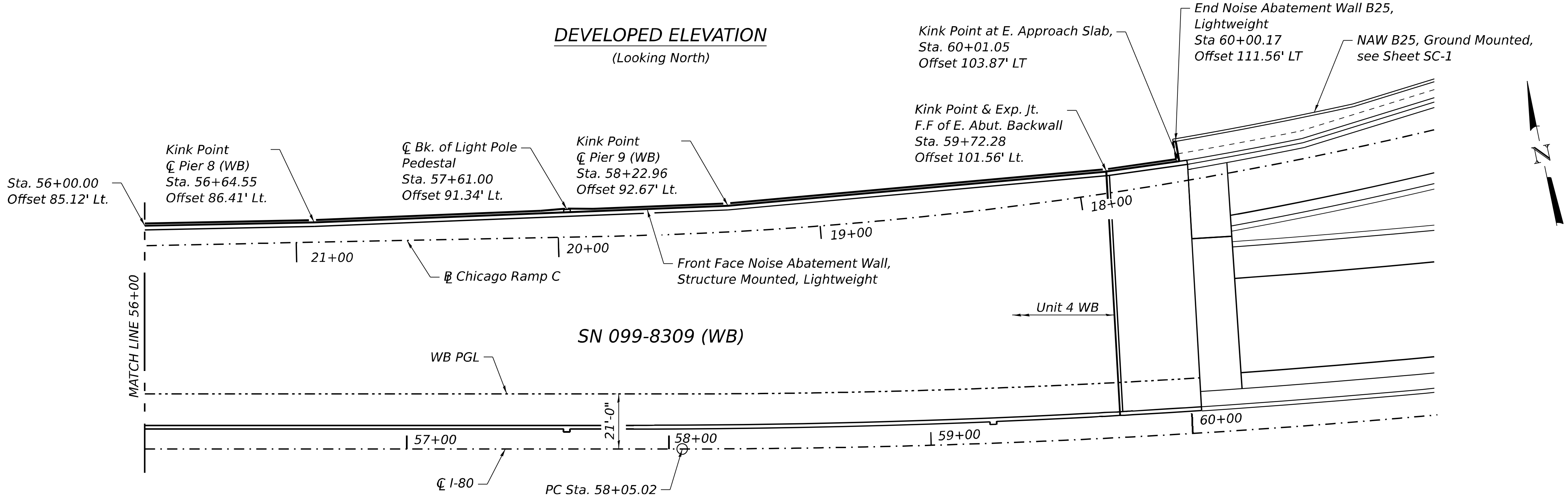
LOCATION SKETCH

GENERAL PLAN AND ELEVATION
NOISE ABATEMENT WALL (LIGHTWEIGHT)
ALONG CHICAGO RAMP C
F.A.I. RTE. 80 SEC. FAI 80 21 STRUCTURE 2
WILL COUNTY
STA. 51+04.00 TO STA. 60+00.17
SN 099-N1028 (NOISE WALL B25)



DEVELOPED ELEVATION

(Looking North)



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WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - PJL	REVISED -
		CHECKED - LAS	REVISED -
	PLOT SCALE = 50:0 ':" / in.	DRAWN - BK	REVISED -
	PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION 2
NOISE ABATEMENT WALL (LIGHTWEIGHT) B25 SN 099-N1028

SHEET SA-2 OF SA-4 SHEETS

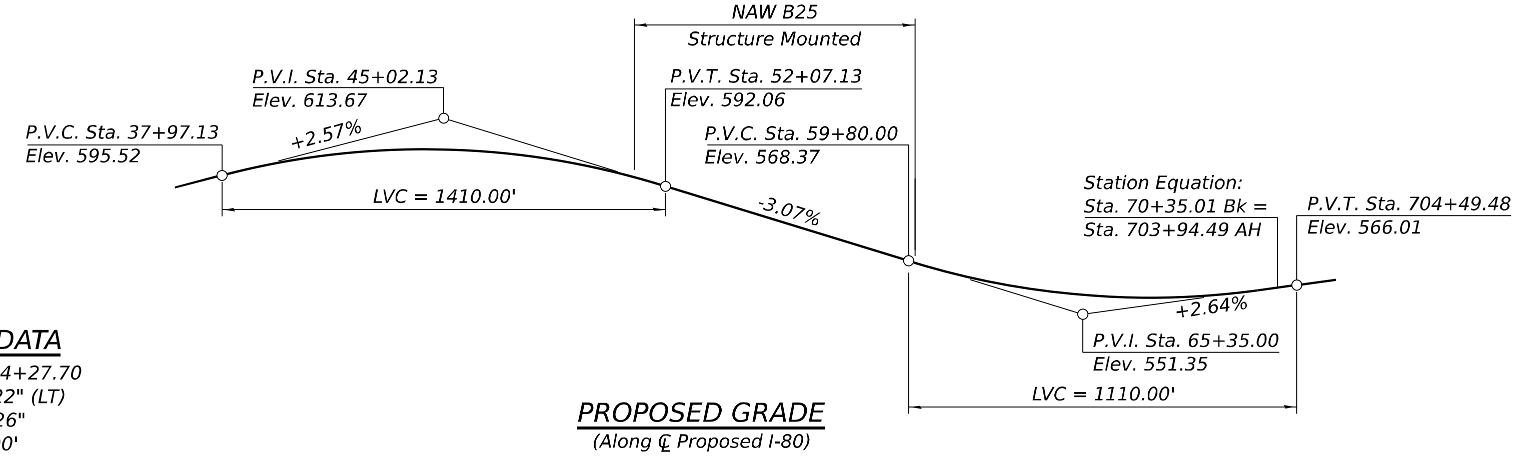
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	916
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES:

1. A lightweight expansion panel and associated expansion details for the NAW system shall be provided. See Special Provisions for NOISE ABATEMENT WALL, STRUCTURE MOUNTED, LIGHTWEIGHT - Expansion Joint sizes, perpendicular to the joints:
   a) Pier 5 WB - 7½"
   b) Pier 7 WB - 5"
   c) End of Deck East Abutment WB - 2⅞"
2. Post and connection detail to be designed by the Contractor. Steel post maximum spacing shall be 11'-8". The NAW Contractor shall coordinate with the Bridge Contractor for the locations of posts and connections which shall be installed by the Bridge Contractor.
3. For additional Noise Abatement Wall design criteria see the Special Provision for Noise Abatement Wall, Structure Mounted, Lightweight.
4. Noise Abatement Wall shall be detailed to accommodate the Cantilever Sign Structure at Pier 5 WB.
5. Noise Abatement Wall shall be detailed to accommodate the light pole supports as shown on the plans.
6. The NAW panels shall be clear in color. The color of the final finish coat for the NAW posts shall be Gray, Munsell No. 5B 7/1.

CURVE DATA

P.I. Sta. = 64+27.70
Δ = 22°01'22" (LT)
D = 01°47'26"
R = 3,200.00'
T = 622.68'
L = 1,229.99'
E = 60.02'
e = 5.2%
T.R. (EB) = 75'
T.R. (WB) = 93'
S.E. Runoff (EB) = 312'
S.E. Runoff (WB) = 390'
P.C. Sta. = 58+05.02
P.T. Sta. = 703+94.49

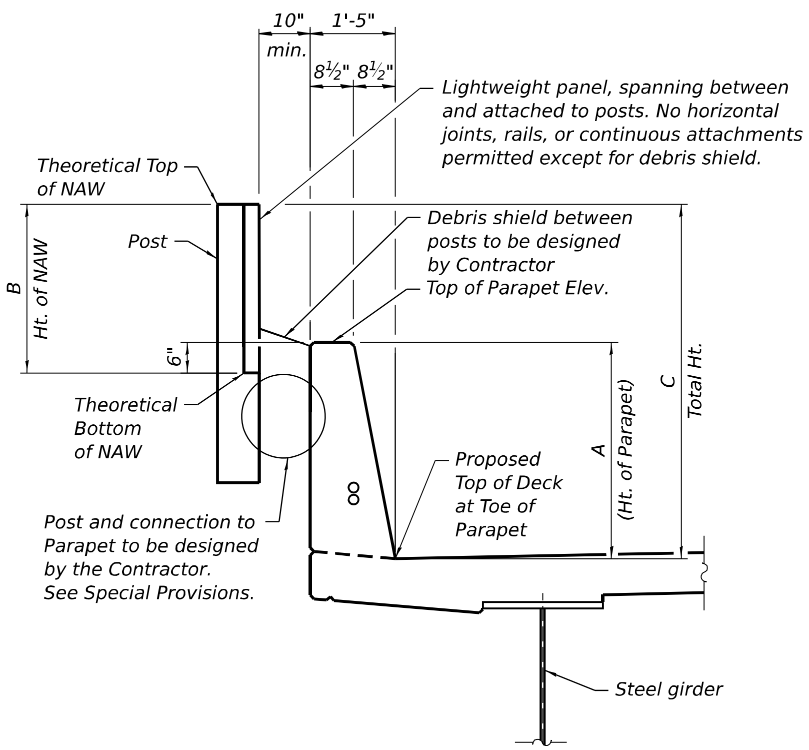


PROPOSED GRADE
(Along ℄ Proposed I-80)

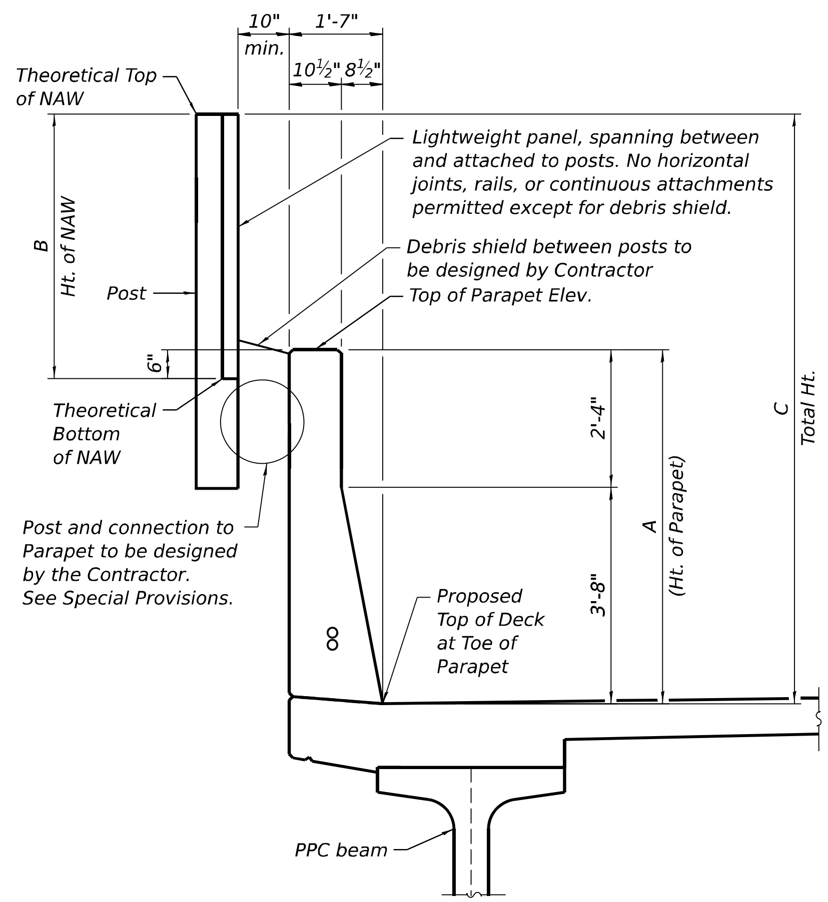
WB NOISE ABATEMENT WALL
LOCATION, HEIGHT AND WEIGHT TABLE

Location	Station	Offset	Theoretical Top of NAW Elev.	Theoretical Bottom of NAW Elev.	Top of Parapet Elevation	A Ht. of Parapet (ft)	B Ht. of NAW (ft)	C *Total Ht. (ft)	NAW Weight (k/ft)
Start of NAW B25 (Span 5)	51+04.00	82.42' LT	600.77	597.93	598.43	3.67	2.83	6.00	0.06
℄ Pier 5	52+09.88	82.58' LT	601.73	597.23	597.73	6.00	4.50	10.00	0.10
℄ Pier 6	53+60.65	82.58' LT	597.11	592.61	593.11	6.00	4.50	10.00	0.10
Height Transition	54+00.00	82.78' LT	597.90	591.40	591.90	6.00	6.50	12.00	0.13
℄ Pier 7	55+10.88	83.33' LT	596.41	587.91	588.41	6.00	8.50	14.00	0.18
Height Transition	56+00.00	85.12' LT	594.98	584.48	584.98	6.00	10.50	16.00	0.22
℄ Pier 8	56+64.55	86.41' LT	592.65	582.15	582.65	6.00	10.50	16.00	0.22
Height Transition	57+00.00	87.82' LT	593.28	580.78	581.28	6.00	12.50	18.00	0.25
℄ Pier 9	58+22.96	92.67' LT	587.86	575.36	575.86	6.00	12.50	18.00	0.25
F.F. of E. Abut. Backwall	59+72.28	101.56' LT	582.28	569.78	570.28	6.00	12.50	18.00	0.25
Kink at E. Appr. Slab	60+01.05	103.87' LT	581.30	568.80	569.30	6.00	12.50	18.00	0.25
End of NAW B25	60+00.17	111.56' LT	581.30	563.30	-	-	18.00	18.00	0.38

*Total Ht. = Ht. of Parapet + Ht. of NAW - 6" overlap



TYPICAL SECTION NAW B25 - UNIT 2 WB
(Looking East)



TYPICAL SECTION NAW B25 - UNITS 3 & 4 WB
(Looking East)

NOISE REDUCTION DATA

Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
I-80 face	51+04.00	60+00.17	Reflective	-
Residential face	51+04.00	60+00.17	Reflective	-

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Noise Abatement Wall, Structure Mounted, Lightweight	Sq. Ft.	7,518

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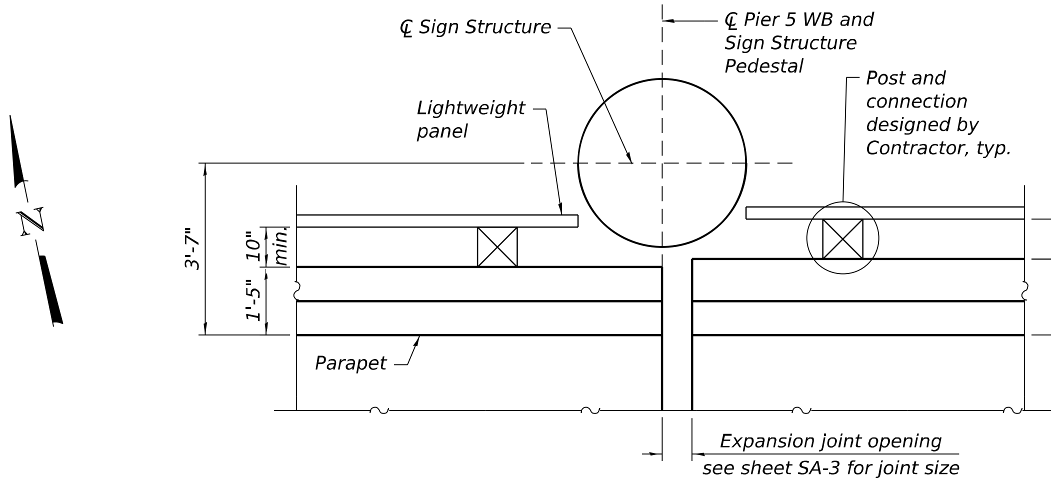
WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - LAS	REVISED -	
PLOT SCALE = 50.000 ' / in.	DRAWN - BK	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

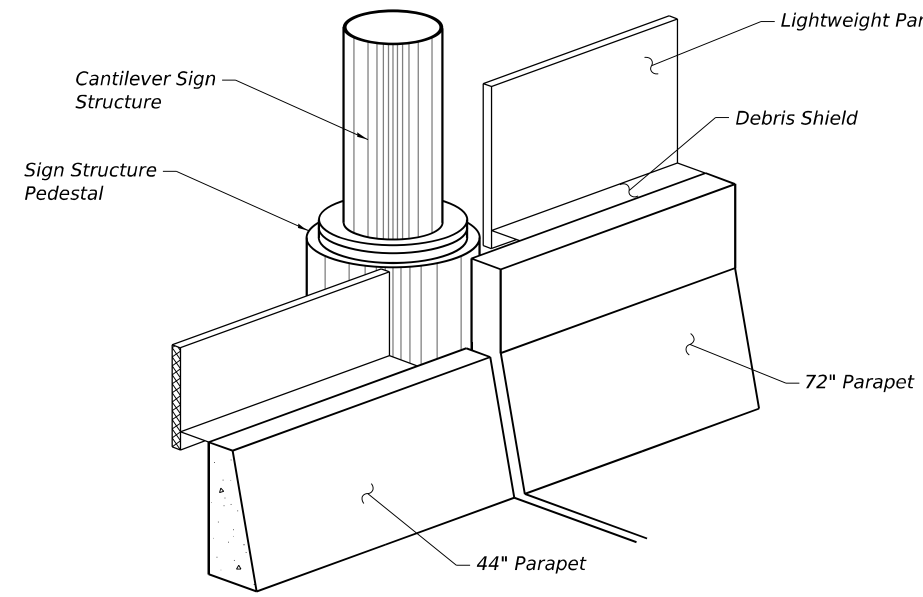
GENERAL NOTES AND BILL OF MATERIALS
NOISE ABATEMENT WALL (LIGHTWEIGHT) B25 SN 099-N1028

SHEET SA-3 OF SA-4 SHEETS

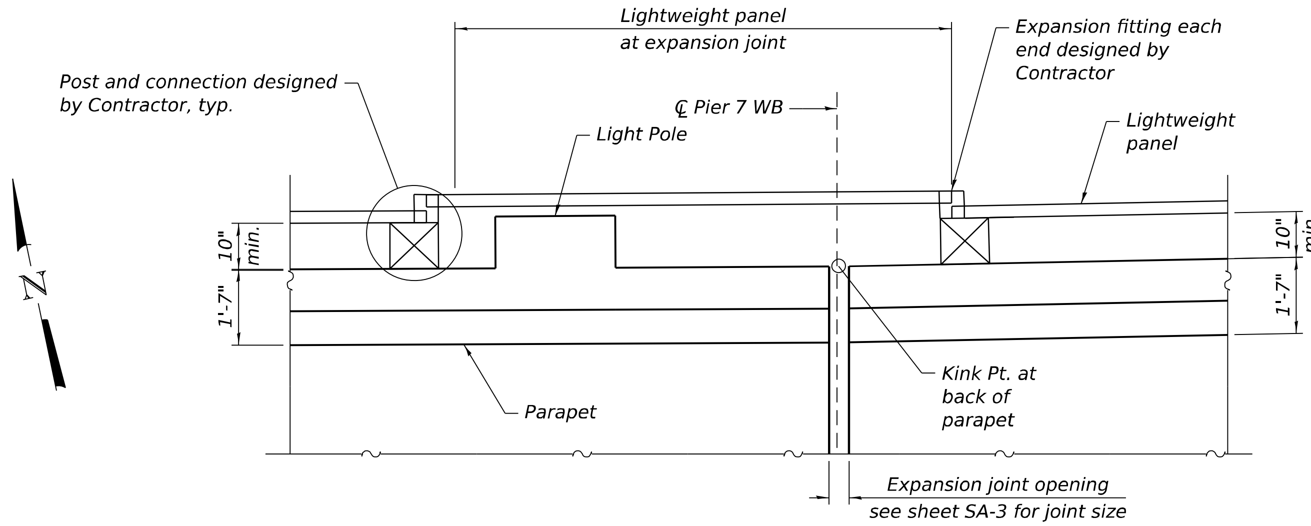
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	917
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



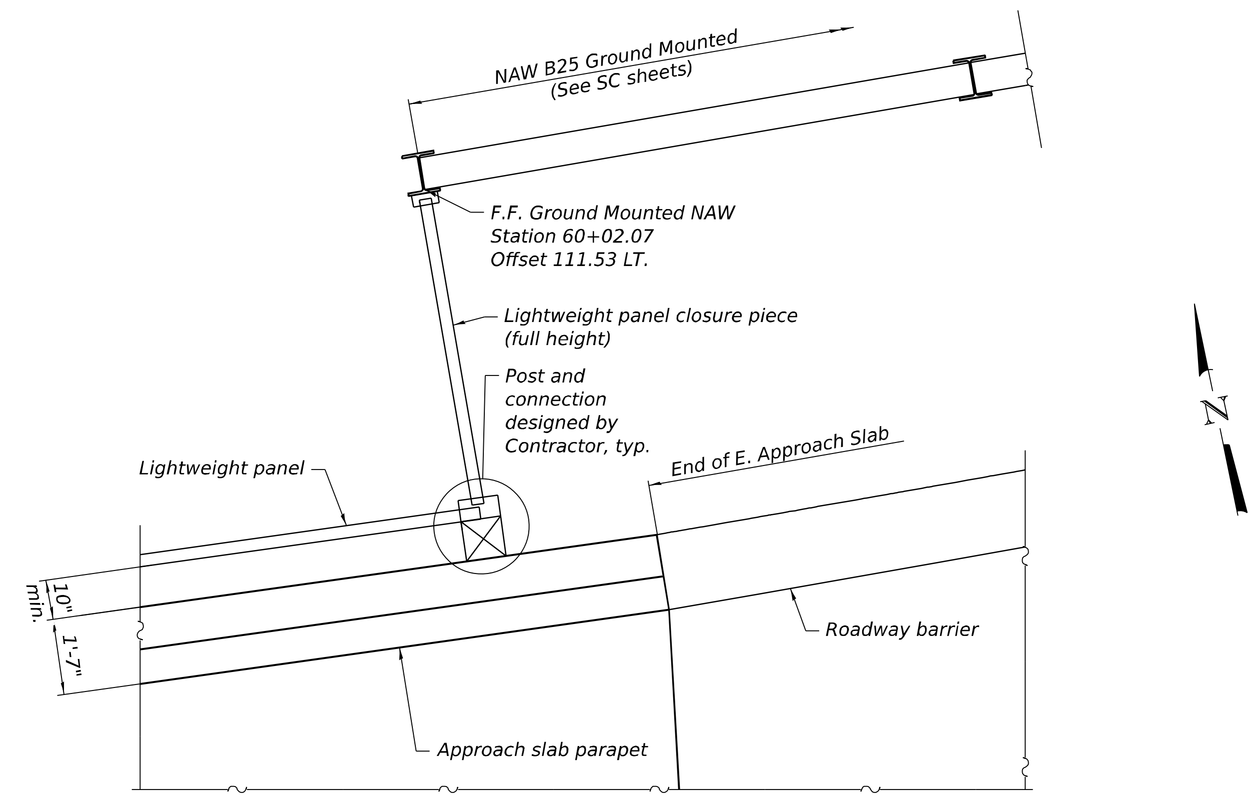
PLAN AT PIER 5 WB



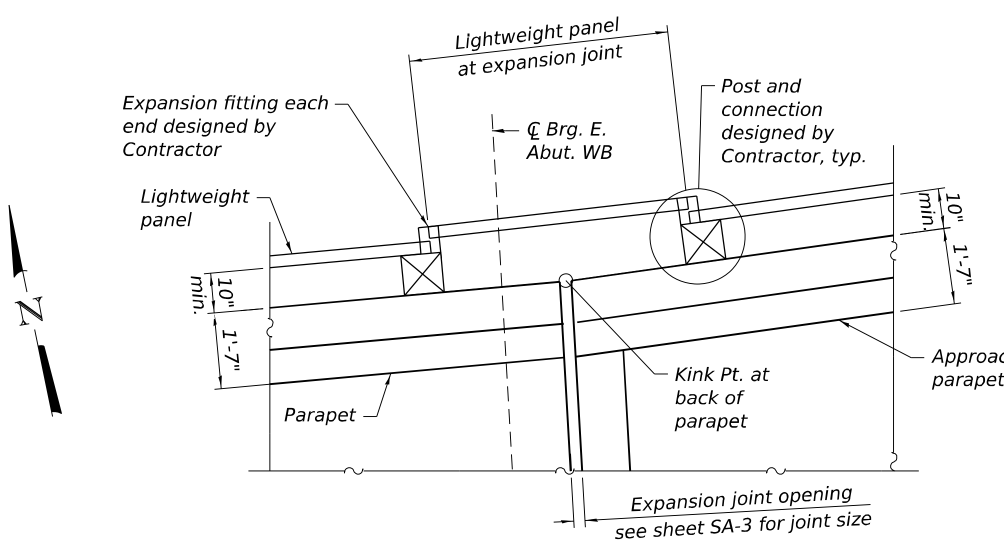
TRIMETRIC VIEW AT PIER 5 WB
(Posts omitted for clarity)



PLAN AT PIER 7 WB



PLAN AT END OF E. APPROACH SLAB WB



PLAN AT E. ABUT. WB

MODEL: Default

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 - PJL	REVISED -	
	CHECKED - LAS	REVISED -	
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PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

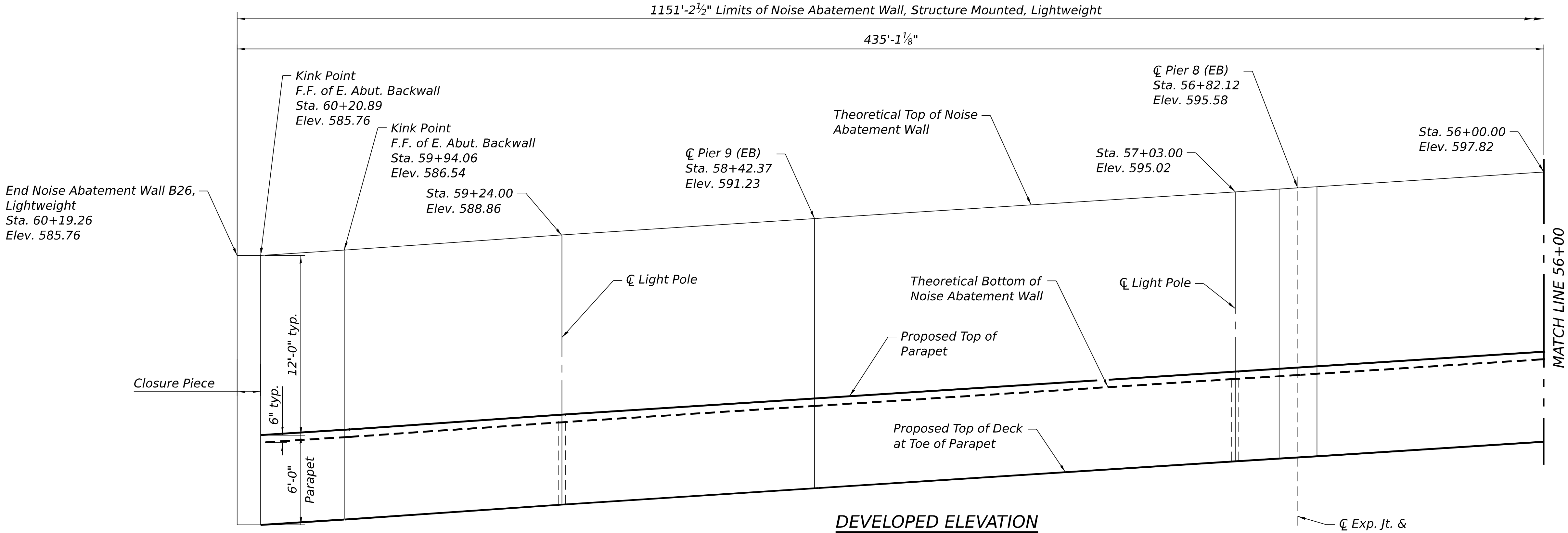
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOISE ABATEMENT WALL DETAILS
NOISE ABATEMENT WALL (LIGHTWEIGHT) B25 SN 099-N1028

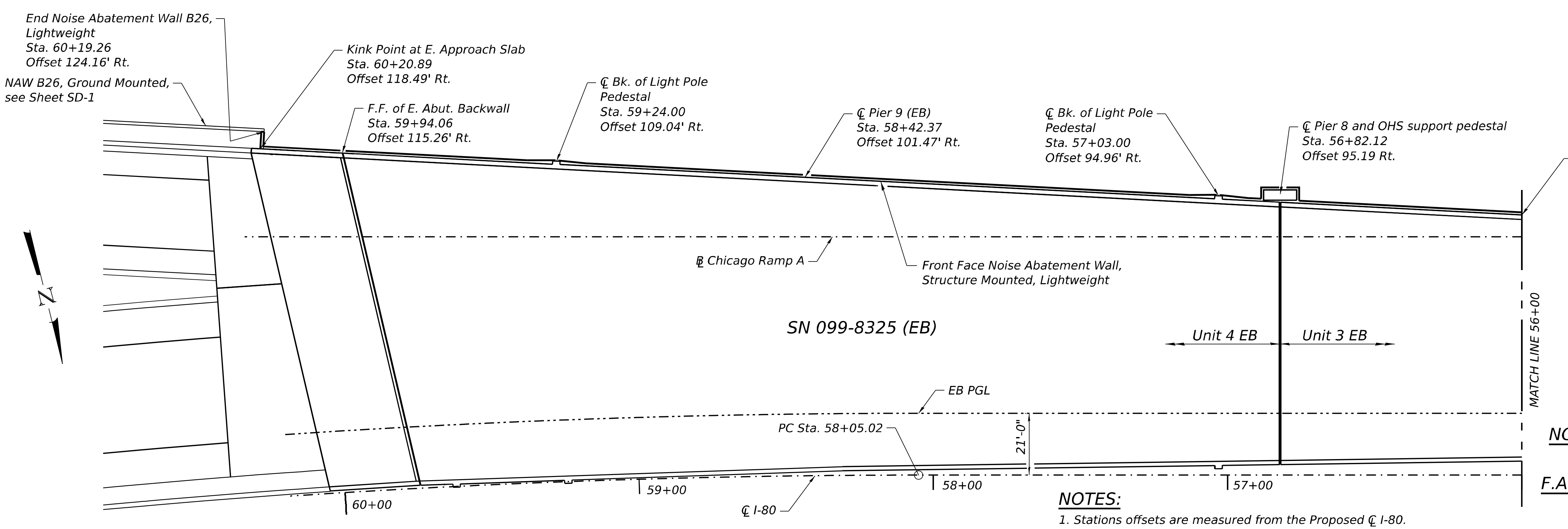
SHEET SA-4 OF SA-4 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	918
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS



DEVELOPED ELEVATION
(Looking South)



PLAN

NOTES:

1. Stations offsets are measured from the Proposed ℄ I-80.
2. Offsets shown for the start, end, and kink points of the Noise Abatement Wall are to the back face of the parapet unless otherwise noted.
3. See sheet SB-4 for General Notes, Total Bill of Material and General Details.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

fy = 50,000 psi (Struct. Steel, M270 Grade 50 posts)
fy = 36,000 psi (Struct. Steel, M270 Grade 36, all other structural steel)

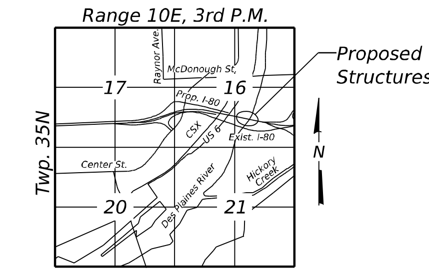
DESIGN LOADS

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

STATE OF ILLINOIS
PATRICK J. LAUX
081-007655
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

11/5/2025

PATRICK J. LAUX, P.E., S.E.
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-007655
EXPIRES 11-30-2026.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
NOISE ABATEMENT WALL (LIGHTWEIGHT)
ALONG CHICAGO RAMP 'A'
F.A.I. RTE. 80 SEC. FAI 80 21 STRUCTURE 2
WILL COUNTY
STA. 48+84.00 TO STA. 60+19.26
SN 099-N1029 (NOISE WALL B26)

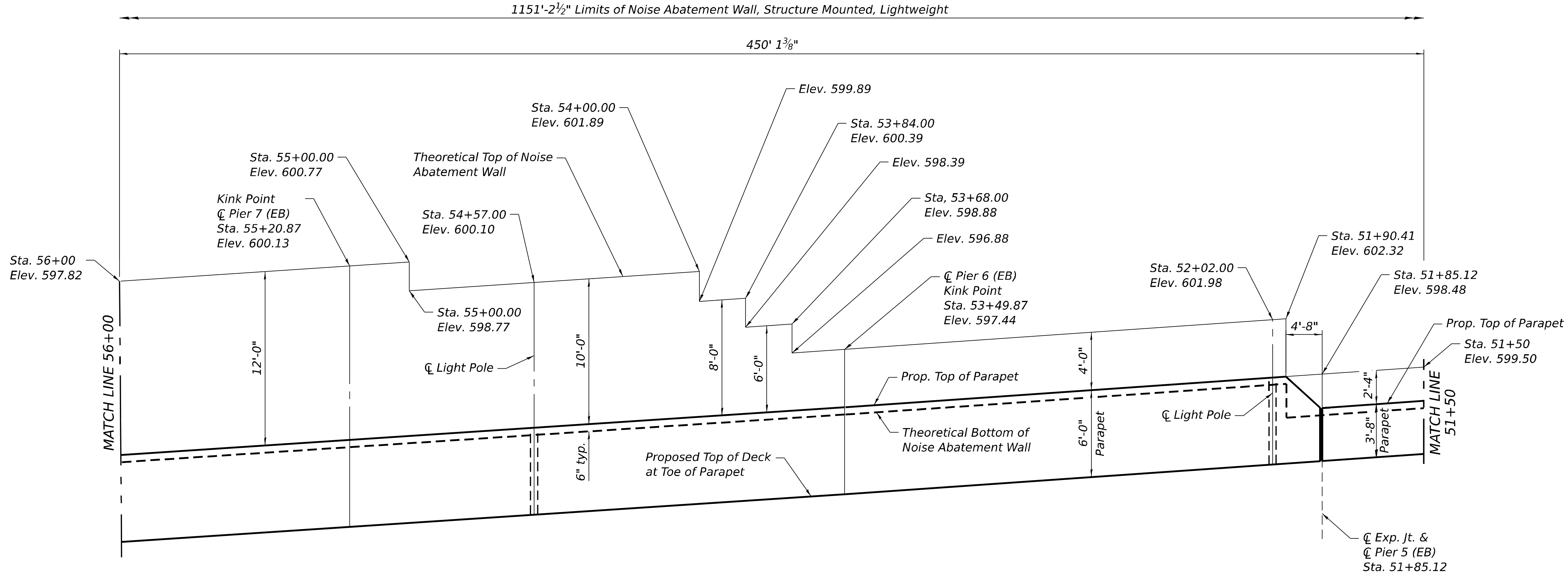
WSP
WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - PJL	REVISED -	
	CHECKED - LAS	REVISED -	
PLOT SCALE = 41:8 ':" / in.	DRAWN - BK	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

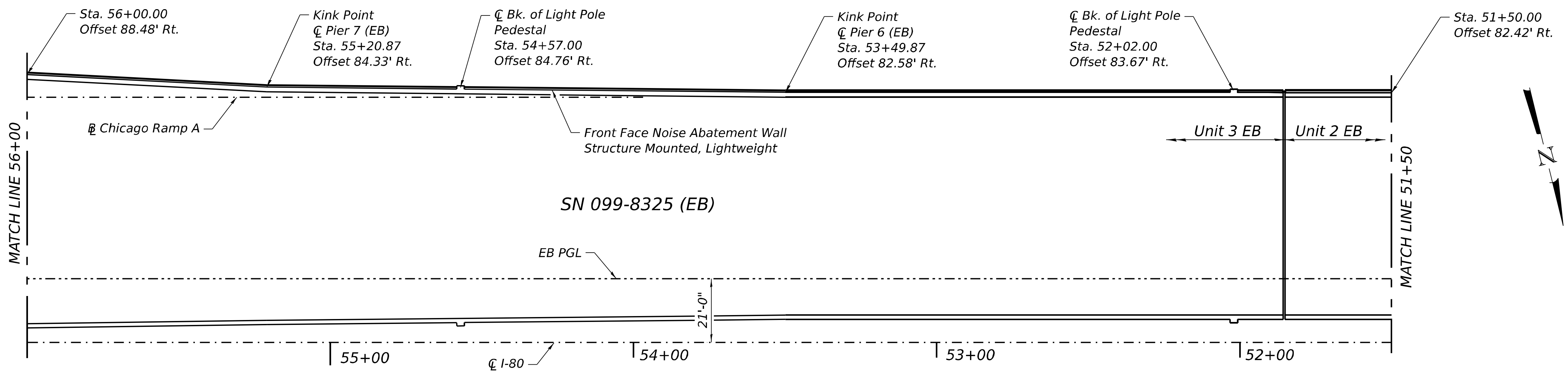
SHEET SB-1 OF SB-5 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	919
		CONTRACT NO. 62R23		
		ILLINOIS FED. AID PROJECT		



DEVELOPED ELEVATION

(Looking South)



PLAN

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WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION 2 NOISE ABATEMENT WALL (LIGHTWEIGHT) B26 SN 099-N1029
		CHECKED - LAS	REVISED -		
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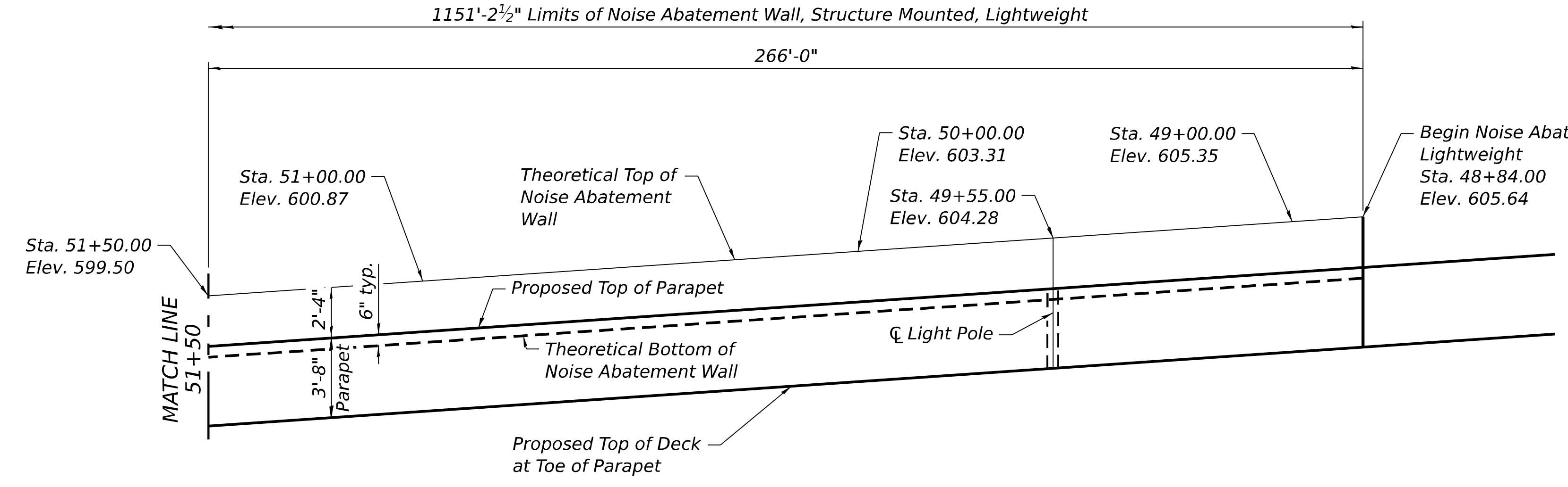
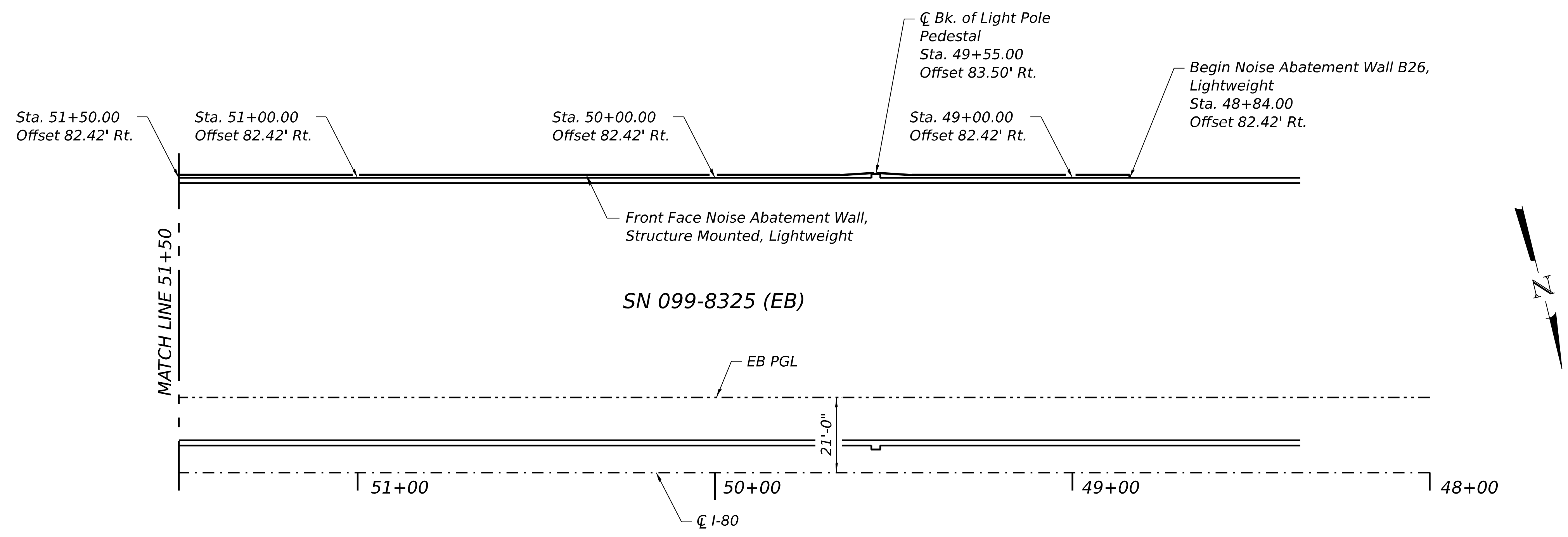
	PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -		SHEET SB-2 OF SB-5 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	920
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



ELEVATION

(Looking South)



PLAN

MODEL: Default

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION 3 NOISE ABATEMENT WALL (LIGHTWEIGHT) B26 SN 099-N1029
		CHECKED - LAS	REVISED -		
	PLOT SCALE = 41.667 ' / in.	DRAWN - BK	REVISED -		
	PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -		SHEET SB-3 OF SB-5 SHEETS

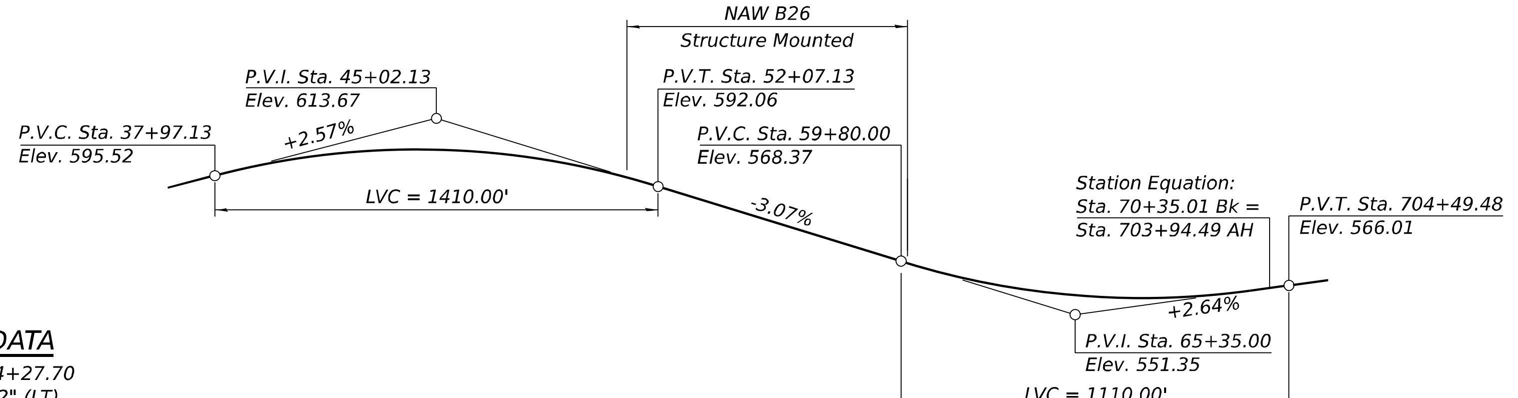
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	921
CONTRACT NO. 62R23				
ILLINOIS	FED. AID PROJECT			

GENERAL NOTES:

1. A lightweight expansion panel and associated expansion details for the NAW system shall be provided. See Special Provisions for NOISE ABATEMENT WALL, STRUCTURE MOUNTED, LIGHTWEIGHT - Expansion Joint sizes, perpendicular to the joints:
   a) Pier 5 EB - 7½"
   b) Pier 7 EB - 5"
   c) End of Deck East Abutment EB - 2⅝"
2. Post and connection detail to be designed by the Contractor. Steel post maximum spacing shall be 11'-8". The NAW Contractor shall coordinate with the Bridge Contractor for the locations of posts and connections which shall be installed by the Bridge Contractor.
3. For additional Noise Abatement Wall design criteria see the Special Provision for Noise Abatement Wall, Structure Mounted, Lightweight.
4. Noise Abatement Wall shall be detailed to accommodate the Overhead Sign Structure at Pier 8 EB.
5. Noise Abatement Wall shall be detailed to accommodate the light pole supports as shown on the plans.
6. The NAW panels shall be clear in color. The color of the final finish coat for the NAW posts shall be Gray, Munsell No. 5B 7/1.

CURVE DATA

P.I. Sta. = 64+27.70
Δ = 22°01'22" (LT)
D = 01°47'26"
R = 3,200.00'
T = 622.68'
L = 1,229.99'
E = 60.02'
e = 5.2%
T.R. (EB) = 75'
T.R. (WB) = 93'
S.E. Runoff (EB) = 312'
S.E. Runoff (WB) = 390'
P.C. Sta. = 58+05.02
P.T. Sta. = 703+94.49

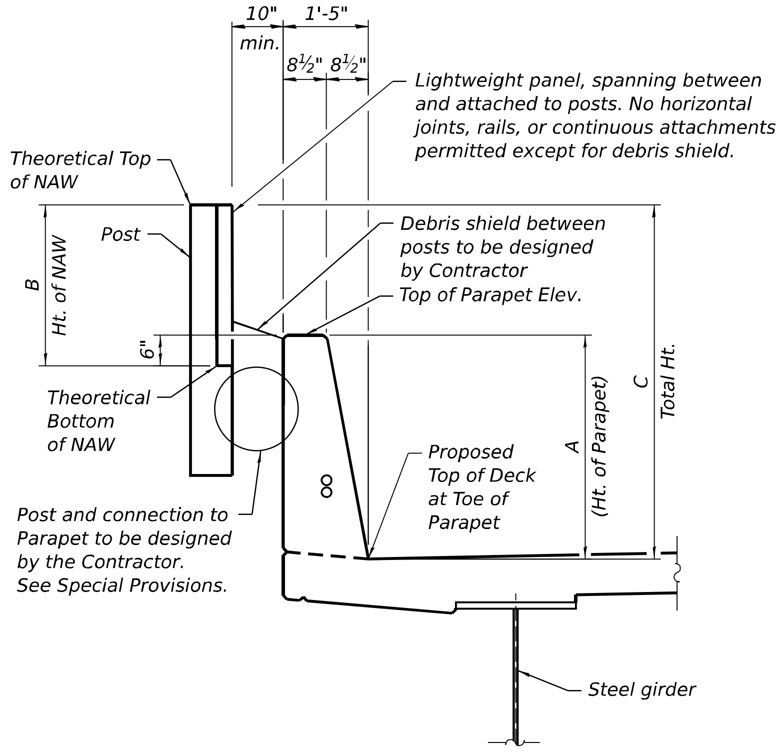


PROPOSED GRADE
(Along ℄ Proposed I-80)

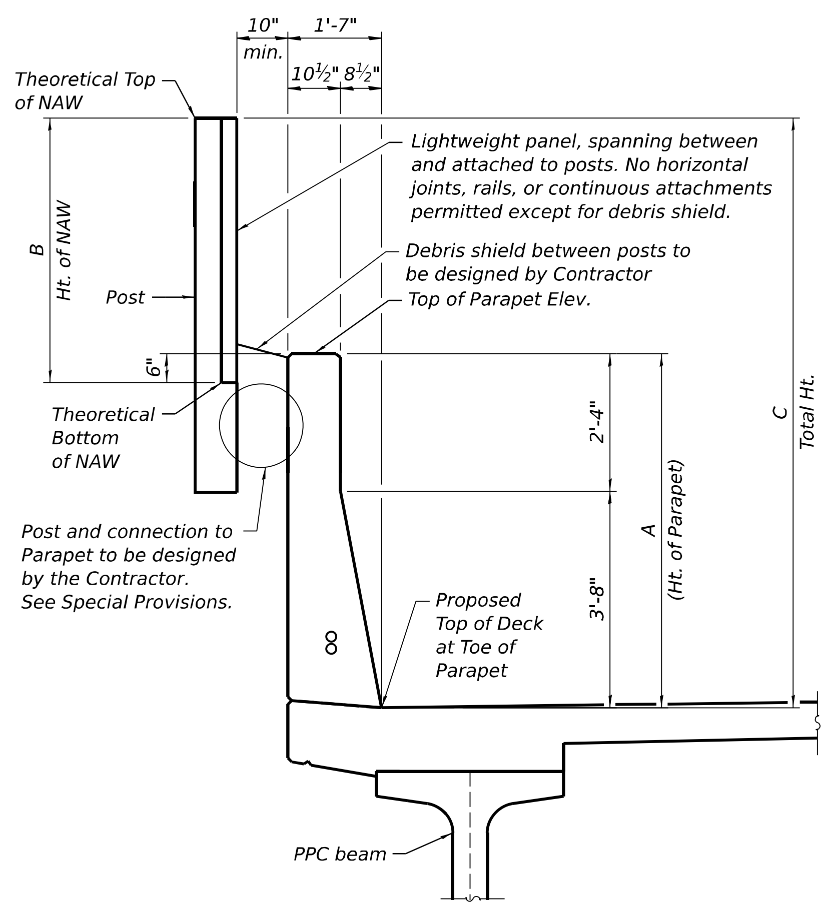
EB NOISE ABATEMENT WALL LOCATION, HEIGHT AND WEIGHT TABLE

Location	Station	Offset	Theoretical Top of NAW Elev.	Theoretical Bottom of NAW Elev.	Top of Parapet NAW Elev.	A Ht. of Parapet (ft)	B Ht. of NAW (ft)	C *Total Ht. (ft)	NAW Weight (k/ft)
Start of NAW B26 (Span 5)	48+84.00	82.42' RT	605.64	602.80	603.30	3.67	2.83	6.00	0.06
℄ Pier 5	51+85.12	82.58' RT	598.48	595.65	596.15	3.67	2.83	6.00	0.10
℄ Pier 6	53+49.87	82.58' RT	597.44	592.94	593.44	6.00	4.50	10.00	0.10
Height Transition	53+68.00	82.77' RT	598.88	592.38	592.88	6.00	6.50	12.00	0.13
Height Transition	53+84.00	82.93' RT	600.39	591.89	592.39	6.00	8.50	14.00	0.18
Height Transition	54+00.00	83.10' RT	601.89	591.39	591.89	6.00	10.50	16.00	0.22
Height Transition	55+00.00	84.12' RT	600.77	588.27	588.77	6.00	12.50	18.00	0.25
℄ Pier 7	55+20.87	84.33' RT	600.13	587.63	588.13	6.00	12.50	18.00	0.25
℄ Pier 8	56+82.12	92.78' RT	595.58	583.08	583.58	6.00	12.50	18.00	0.25
℄ Pier 9	58+42.37	101.47' RT	591.23	578.73	579.23	6.00	12.50	18.00	0.25
F.F. of E. Abut. Backwall	59+94.06	115.26' RT	586.54	574.04	574.54	6.00	12.50	18.00	0.25
Kink at E. Appr. Slab	60+20.89	118.49' RT	585.76	573.26	573.76	6.00	12.50	18.00	0.25
End of NAW B26	60+19.26	124.16' RT	585.76	567.76	-	-	18.00	18.00	0.38

*Total Ht. = Ht. of Parapet + Ht. of NAW - 6" overlap



TYPICAL SECTION NAW B26 - UNIT 2 EB
(Looking West)



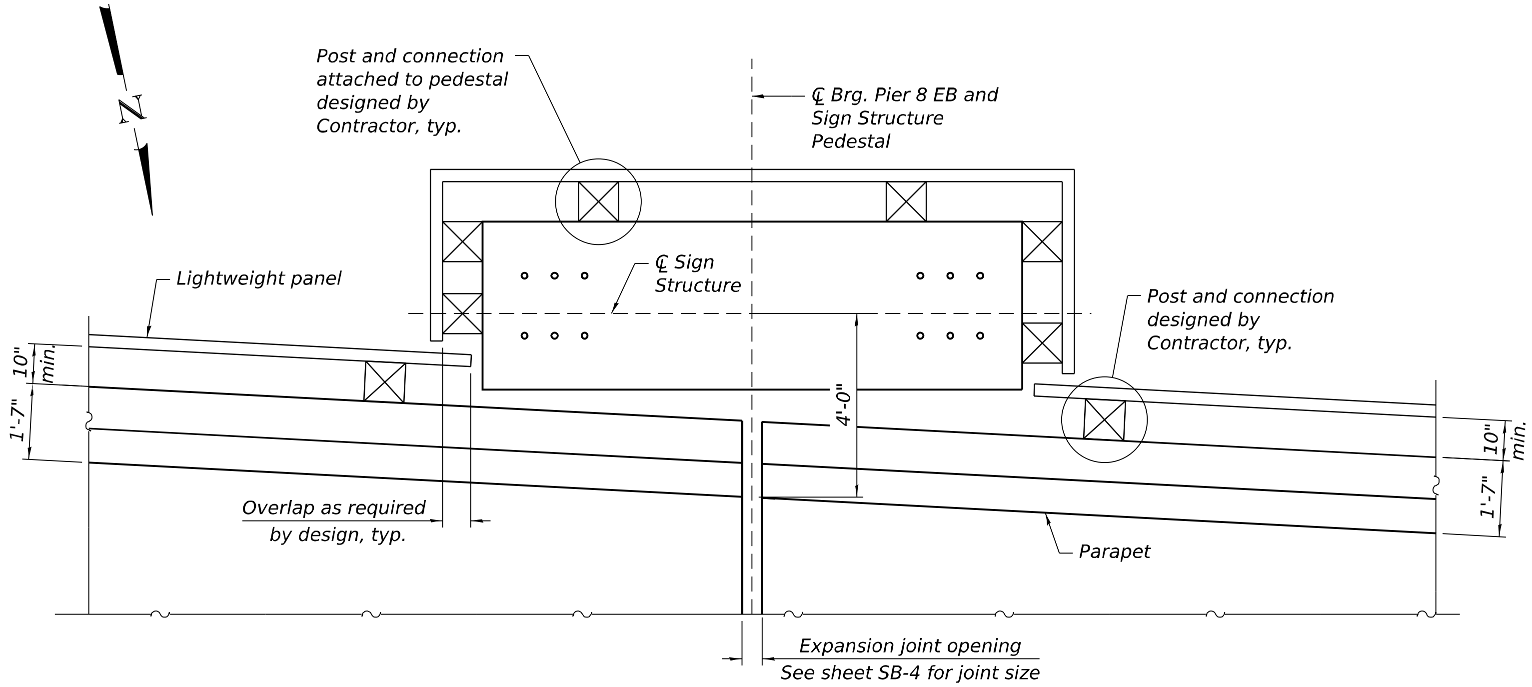
TYPICAL SECTION NAW B26 - UNITS 3 & 4 EB
(Looking West)

NOISE REDUCTION DATA

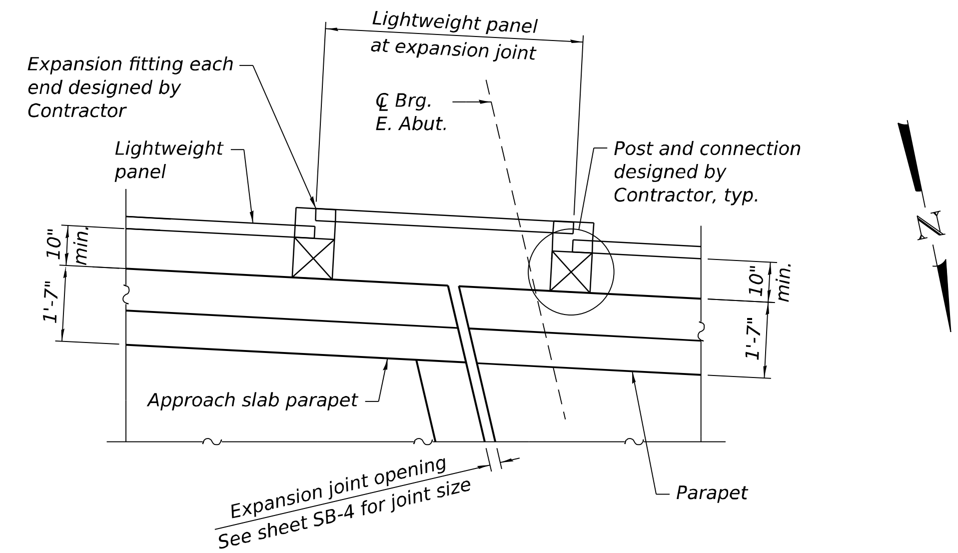
Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
I-80 face	48+84.00	60+19.26	Reflective	-
Residential face	48+84.00	60+19.26	Reflective	-

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Noise Abatement Wall, Structure Mounted, Lightweight	Sq. Ft.	9,679

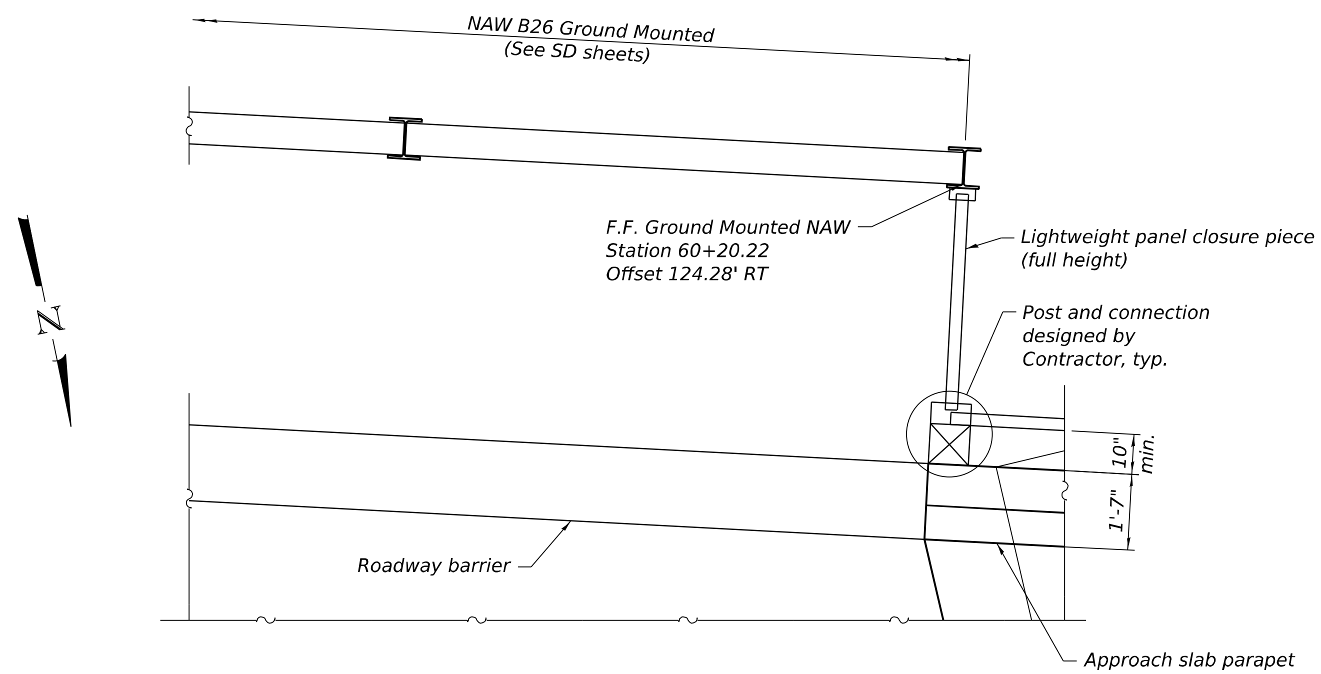


PLAN AT SPAN 8 EB

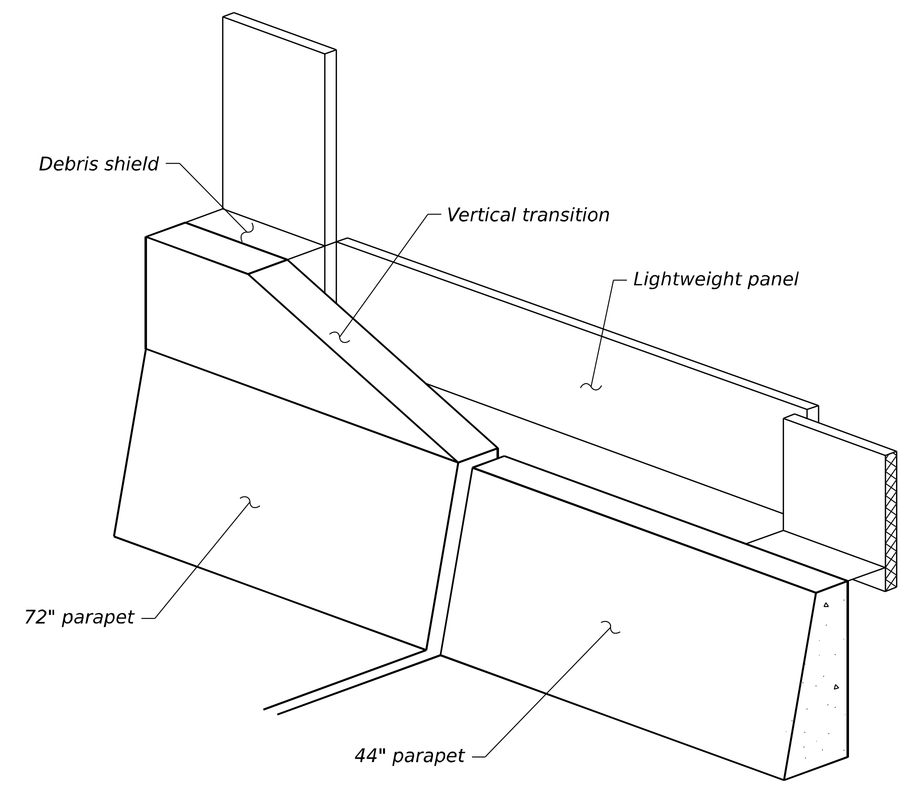


PLAN AT E. ABUTMENT EB

(Pier 5 EB similar)



PLAN AT E. APPROACH SLAB EB



TRIMETRIC VIEW AT PIER 5 EB

(Posts omitted for clarity)

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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

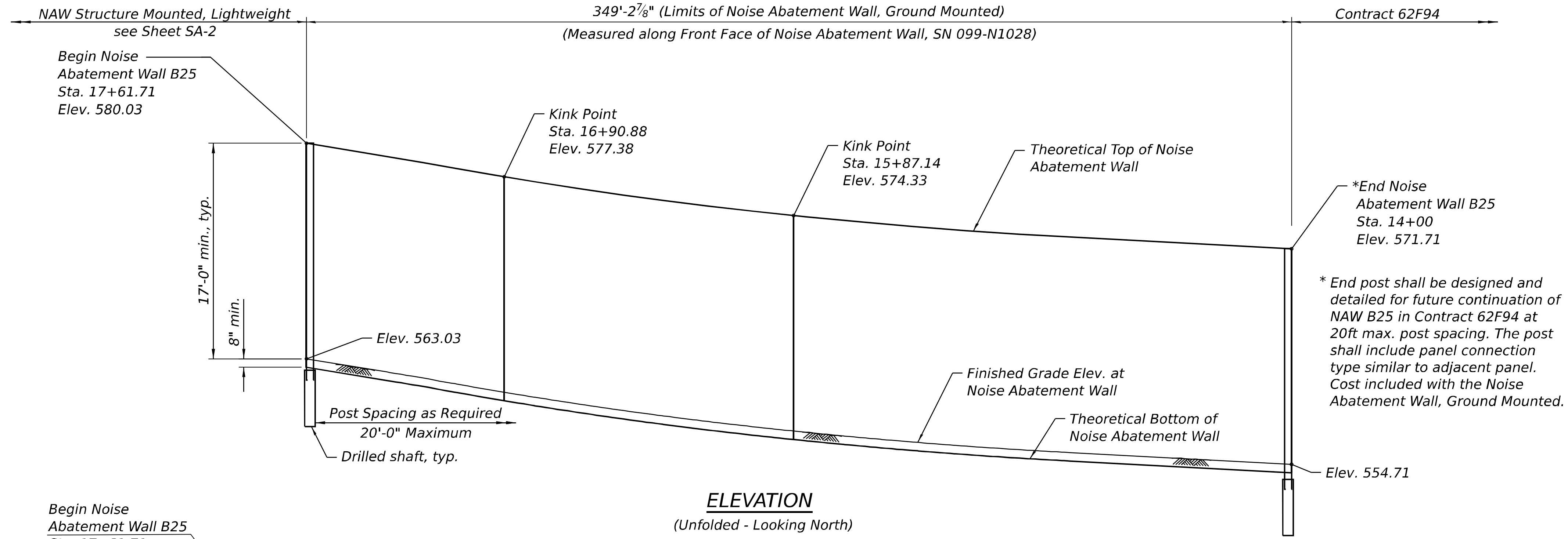
USER NAME = USGM717780	DESIGNED - PJL	REVISED -	
	CHECKED - LAS	REVISED -	
PLOT SCALE = 0.167 ' / in.	DRAWN - SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOISE ABATEMENT WALL DETAILS
NOISE ABATEMENT WALL (LIGHTWEIGHT) B26 SN 099-N1029

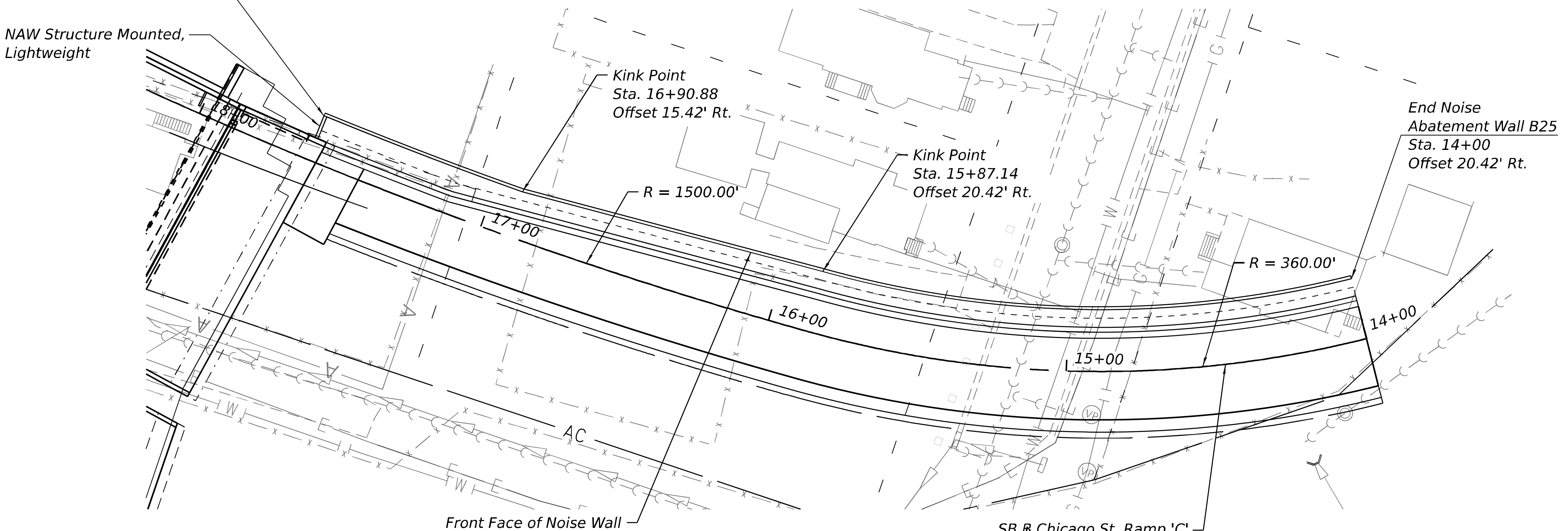
SHEET SB-5 OF SB-5 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	923
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

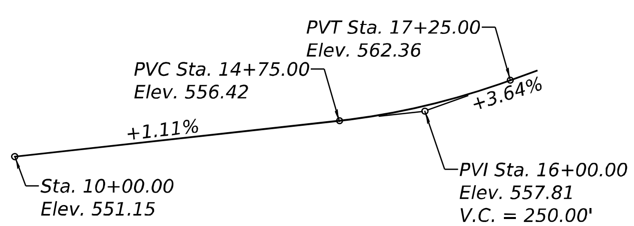


ELEVATION

(Unfolded - Looking North)



PLAN



PROFILE GRADE

(Along ℄ Proposed Chicago St. Ramp 'C')

NOTES:

1. For General Notes and Total Bill of Material, see Sheet SC-2.
2. Stations are measured along and Offsets are measured from Front Face of Noise Abatement Wall to ℄ Prop. Chicago St. Ramp 'C'.
3. Length of ground mounted wall is measured along Front Face of Noise Abatement Wall.

CURVE DATA

PR CURVE Chicago St. RAMP C	PR CURVE Chicago St. RAMP C
PI STA = 17+86.92	PI STA = 14+34.93
Δ = 15°10'38" (RT)	Δ = 52°25'33" (RT)
D = 03°49'11"	D = 15°54'56"
R = 1,500.00'	R = 360.00'
T = 199.84'	T = 177.24'
L = 397.34	L = 329.40
E = 13.25'	E = 41.27'
PC STA = 15+87.08	PC STA = 12+57.68
PT STA = 19+84.42	PT STA = 15+87.08

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Struct. Steel, M270 Grade 50, posts)
fy = 36,000 psi (Struct. Steel, M270 Grade 36, all other structural steel)

PRECAST UNITS

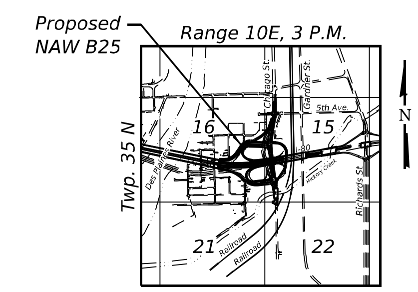
f'c = 4,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Reinforcement)

DESIGN LOADS

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

LEGEND

- Proposed ROW line
- Existing ROW line
- T — Existing Telephone line
- A — Existing Aerial line
- E — Existing Electric line
- FO — Existing Fiber Optic 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
NOISE ABATEMENT WALL B25 ALONG CHICAGO ST. RAMP C
F.A.I. RTE. 80 - SEC FAI 80 21 STRUCTURE 2
WILL COUNTY
STA. 17+61.71 TO STA. 14+00.00
STRUCTURE NO. 099-N1028

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 - MIS	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 50.000 ' / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - MIS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SC-1 OF SC-3 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	924
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES:

1. Theoretical Top of Wall Elev., Theoretical Bottom of Wall Elev. and Finished Grade Elev. at Front Face of Wall shall be taken as straight lines in the segments between the stations shown in the Noise Wall Data Table.

2. NOISE ABATEMENT WALL, GROUND MOUNTED Special Provision for material, design, fabrication, construction, erection and other requirements for installation of proposed Noise Abatement Wall.

3. 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.

4. Noise Abatement Wall drilled shaft foundation diameter, depth and spacing to be determined by the Contractor but the spacing shall not exceed 20 ft.

5. Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall.

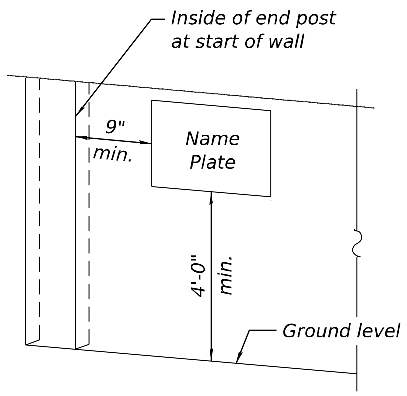
6. The default color of both sides of the NAW panels, posts and other visible elements shall be Federal Standard 30279 - Sand.

NOISE ABATEMENT WALL
BUILT 202_ BY
STATE OF ILLINOIS
FAI RTE. I-80
SECTION FAI 80 21 STRUCTURE
FROM STA. 17+61.71 TO STA. 223+46.88
STRUCTURE NO. 099-N1028

NAME PLATE

See Std. 515001

(End Station of SN 099-N1028 is in Contract 62F94)



FOR NOISE ABATEMENT WALL GROUND MOUNTED

NOISE ABATEMENT WALL B25 (DATA TABLE)

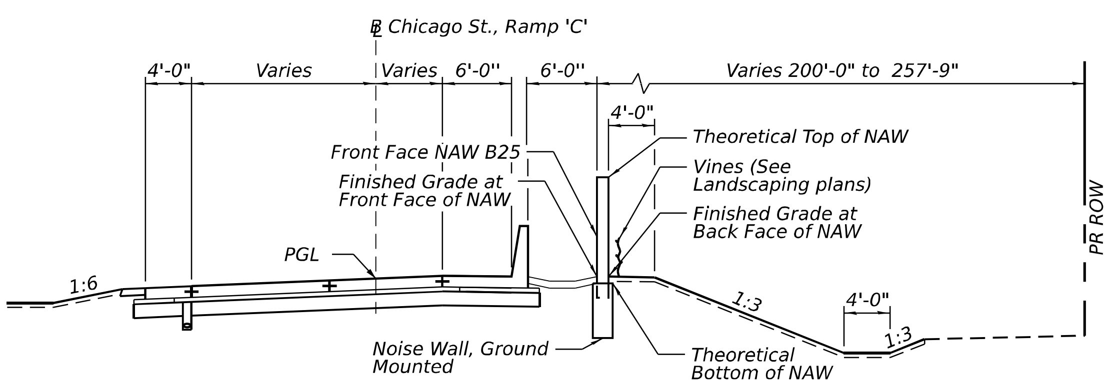
Station	Offset (Rt) to Front Face of NAW (ft.)	Theoretical top of NAW Elev.	℄ Chicago St. Ramp 'C' Elev.	Finished Grade Elev. at Front Face of NAW	Finished Grade Elev. At Back Face of NAW	Ex. Grade Elev. At Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
17+61.71	15.42	580.03	563.68	563.14	563.14	520.56	562.47	17.67
17+00.00	15.42	577.72	561.47	560.72	560.72	522.04	560.06	17.67
16+90.88	15.42	577.38	561.17	560.38	560.38	522.21	559.72	17.67
16+50.00	18.24	576.00	559.91	559.00	559.00	522.59	558.33	17.67
16+00.00	20.18	574.63	558.59	557.63	557.63	522.67	556.96	17.67
15+87.14	20.42	574.33	558.30	557.33	557.33	522.60	556.66	17.67
15+50.00	20.42	573.60	557.53	556.60	556.60	523.19	555.93	17.67
15+00.00	20.42	572.83	556.73	555.84	555.84	523.31	555.17	17.67
14+50.00	20.42	572.27	556.14	555.27	555.27	524.02	554.60	17.67
14+00.00	20.42	571.71	555.59	554.71	554.71	523.62	554.05	17.67

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Noise Abatement Wall, Ground Mounted	Sq. Ft.	6170

NOISE REDUCTION DATA

Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
Ramp 'C' face	17+61.71	14+00.00	Reflective	-
Residential face	17+61.71	14+00.00	Reflective	-



RAMP 'C'
TYPICAL SECTION ALONG NAW B25

Sta, 14+00.00 to Sta. 17+61.71

(Looking West)

MODEL: Default
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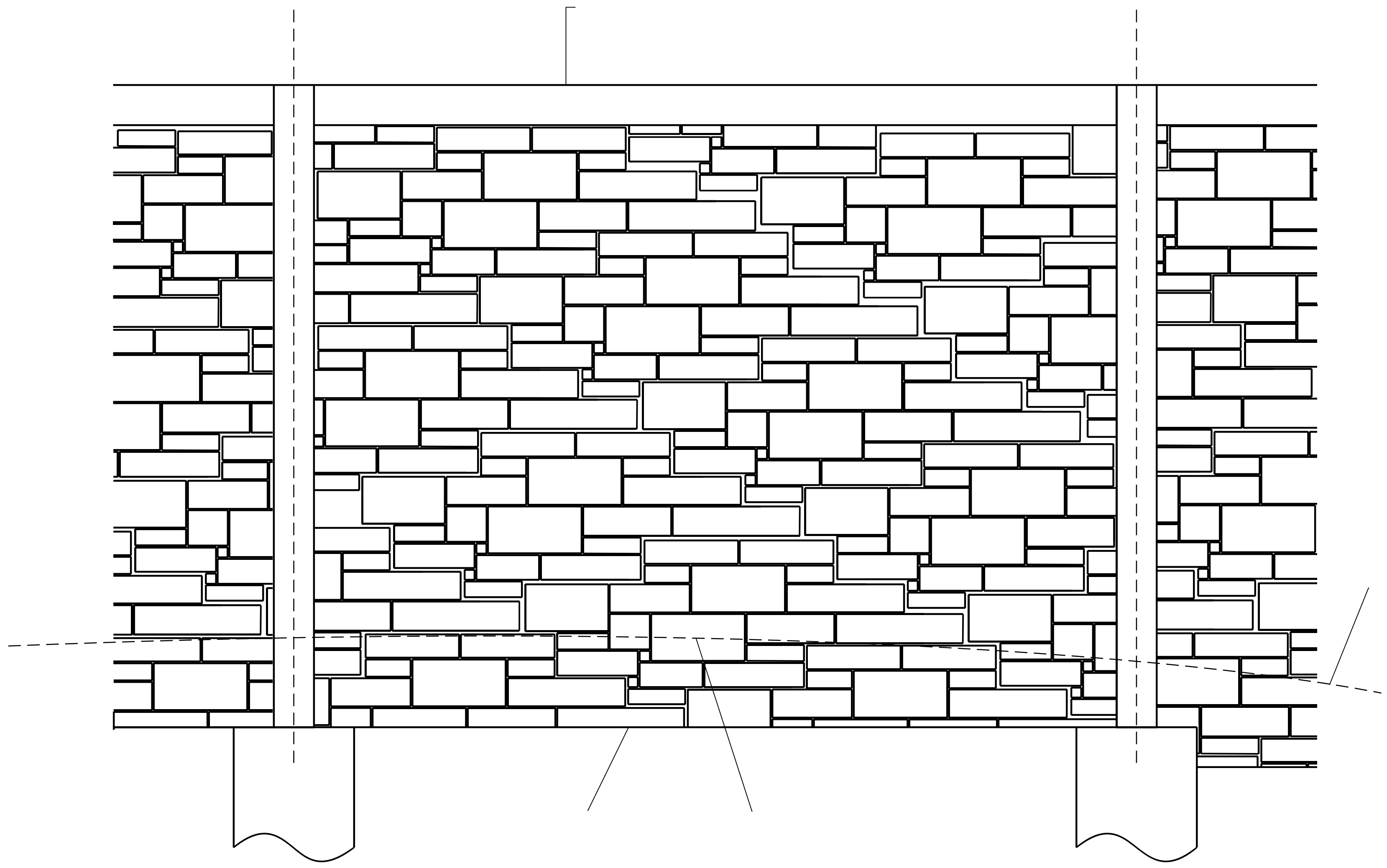
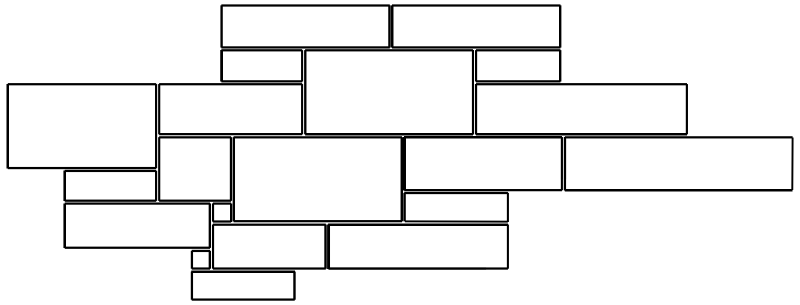
WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - MIS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND TOTAL BILL OF MATERIAL NOISE ABATEMENT WALL B25 SN 099-N1028
		CHECKED - PJL	REVISED -		
	PLOT SCALE = 50.000 ' / in.	DRAWN - GM	REVISED -		
	PLOT DATE = 11/5/2025	CHECKED - MIS	REVISED -		SHEET SC-2 OF SC-3 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	925
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

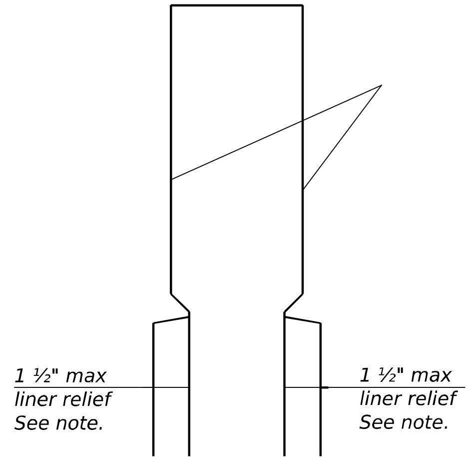
Notes:
Each side of the noise wall panels shall have a rolled ashlar stone finish. The finish shall have a 1 ½" relief for noise abatement wall, ground mounted. The color of both sides of the panels, plain band, posts and all other visible elements shall follow the special provisions.



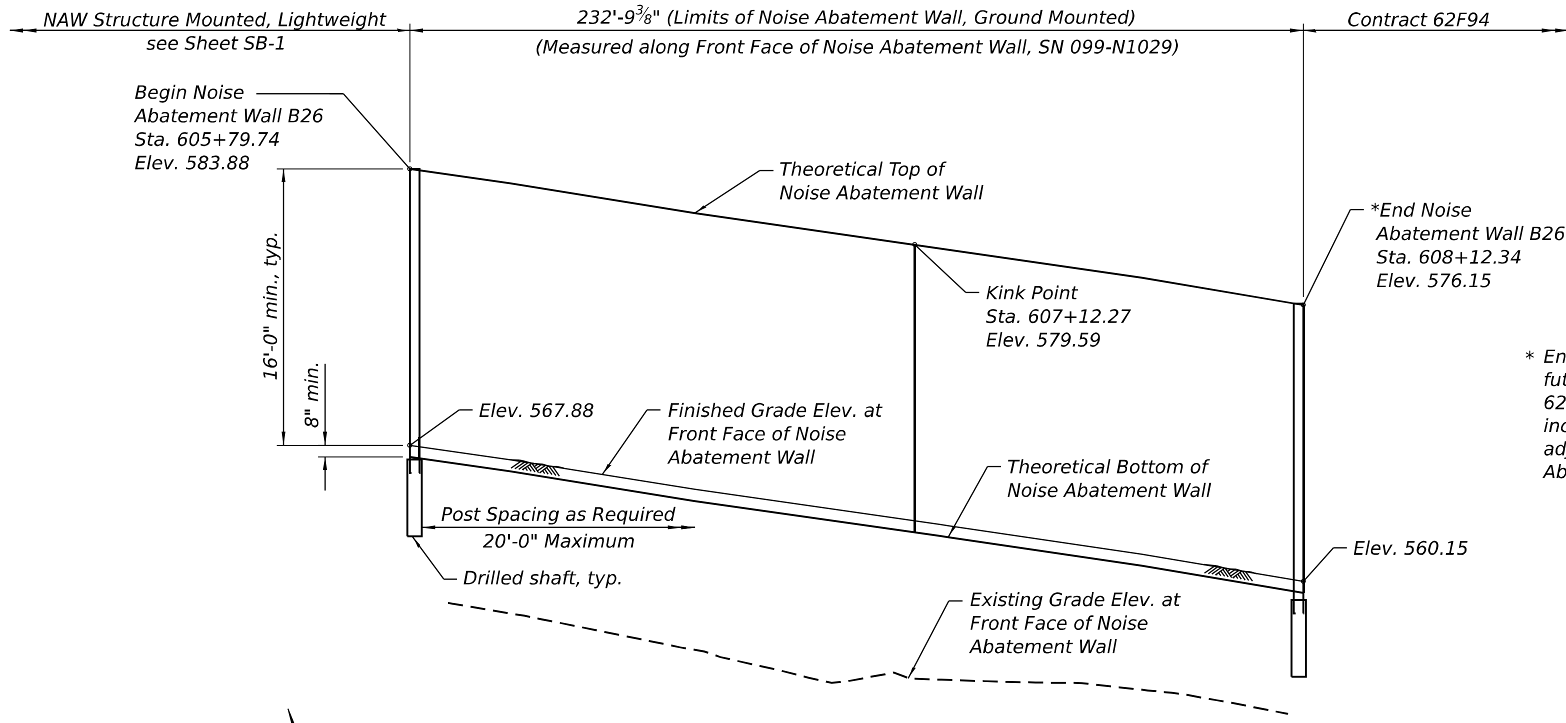


Stone Pattern Sizes:
3" x 3" - 14" x 28"

ENLARGED PATTERN DETAIL



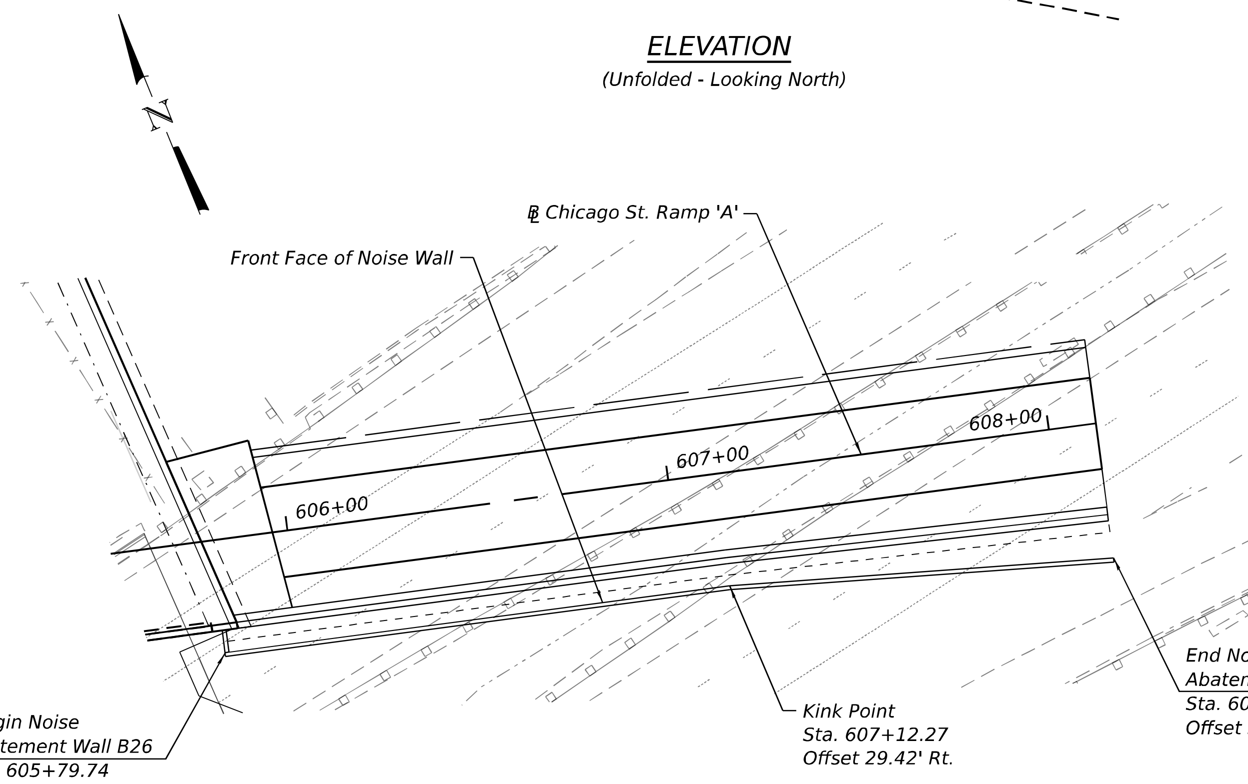
ENLARGED CAP DETAIL



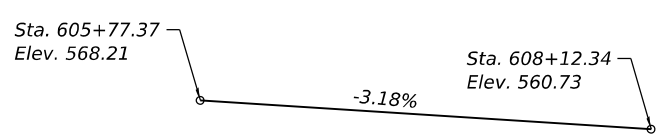
ELEVATION

(Unfolded - Looking North)

* End post shall be designed and detailed for future continuation of NAW B26 in Contract 62F94 at 20ft max. post spacing. The post shall include panel connection type similar to adjacent panel. Cost included with the Noise Abatement Wall, Ground Mounted.



PLAN



PROFILE GRADE

(Along ℄ Proposed Chicago St. Ramp 'A')

NOTES:

1. For General Notes and Total Bill of Material, see Sheet SD-2.
2. Stations are measured along and Offsets are measured from Front Face of Noise Abatement Wall to ℄ Prop. Chicago St. Ramp 'A'.
3. Length of ground mounted wall is measured along Front Face of Noise Abatement Wall.

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Struct. Steel, M270 Grade 50, posts)
fy = 36,000 psi (Struct. Steel, M270 Grade 36, all other structural steel)

PRECAST UNITS

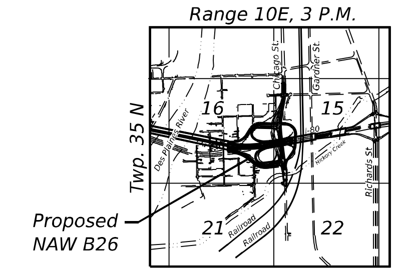
f'c = 4,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Reinforcement)

DESIGN LOADS

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

LEGEND

Symbol	Description
	Proposed ROW line
	Existing ROW line
T	Existing Telephone line
A	Existing Aerial line
E	Existing Electric line
FO	Existing Fiber Optic 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
NOISE ABATEMENT WALL B26 ALONG CHICAGO ST. RAMP A
F.A.I. RTE. 80 - SEC FAI 80 21 STRUCTURE 2
WILL COUNTY
STA. 605+79.74 TO STA. 608+12.34
STRUCTURE NO. 099-N1029

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 - MIS	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 50:0 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - MIS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SD-1 OF SD-3 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	927
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

1. Theoretical Top of Wall Elev., Theoretical Bottom of Wall Elev. and Finished Grade Elev. at Front Face of Wall shall be taken as straight lines in the segments between the stations shown in the Noise Wall Data Table.

2. NOISE ABATEMENT WALL, GROUND MOUNTED Special Provision for material, design, fabrication, construction, erection and other requirements for installation of proposed Noise Abatement Wall.

3. 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.

4. Noise Abatement Wall drilled shaft foundation diameter, depth and spacing to be determined by the Contractor but the spacing shall not exceed 20 ft.

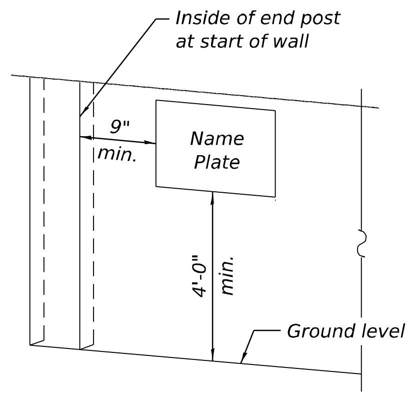
5. Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall.

6. The default color of both sides of the NAW panels, posts and other visible elements shall be Federal Standard 30279 - Sand.

NOISE ABATEMENT WALL
BUILT 202_ BY
STATE OF ILLINOIS
FAI RTE. I-80
SECTION FAI 80 21 STRUCTURE
FROM STA. 605+79.74 TO STA. 619+47.92
STRUCTURE NO. 099-N1029

NAME PLATE

See Std. 515001
(End Station of SN 099-N1029 is in Contract 62F94)



FOR NOISE ABATEMENT WALL GROUND MOUNTED

NOISE ABATEMENT WALL B26 (DATA TABLE)

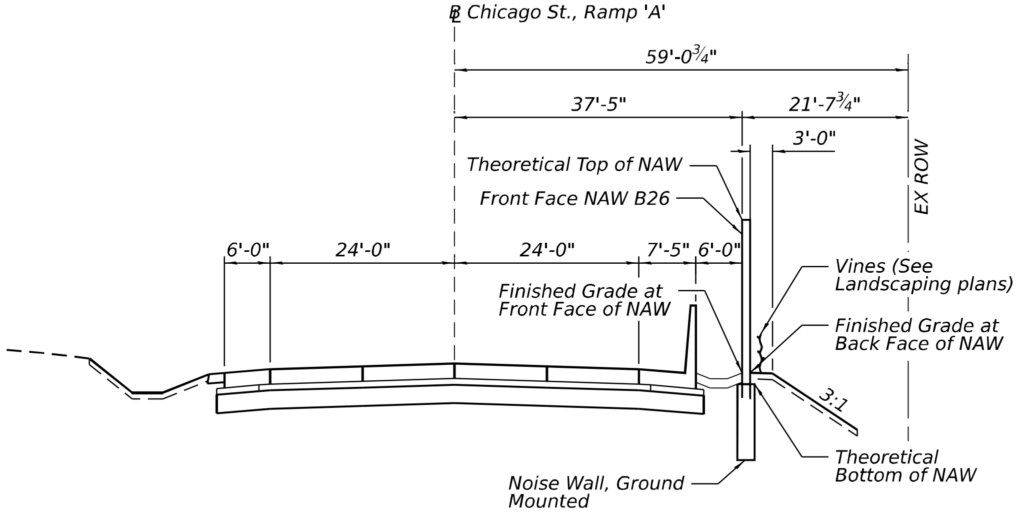
Station	Offset (Rt) to Front Face of NAW (ft.)	Theoretical top of NAW Elev.	℄ Chicago St. Ramp 'A' Elev.	Finished Grade Elev. at Front Face of NAW	Finished Grade Elev. At Back Face of NAW	Ex. Grade Elev. At Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
605+79.74	29.42	583.88	568.13	567.88	567.88	559.42	567.21	16.76
606+00.00	29.42	583.36	567.49	567.36	567.36	559.18	566.70	16.76
606+50.00	29.42	581.61	565.90	565.61	565.61	557.04	564.94	16.76
607+00.00	29.42	579.98	564.31	563.98	563.98	554.98	563.32	16.76
607+12.27	29.42	579.59	563.92	563.59	563.59	555.19	562.93	16.76
607+50.00	31.68	578.37	562.72	562.37	562.37	554.81	561.70	16.76
608+00.00	34.68	576.62	561.13	560.62	560.62	553.54	559.95	16.76
608+12.34	35.42	576.15	560.73	560.15	560.15	553.12	559.49	16.76

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Noise Abatement Wall, Ground Mounted	Sq. Ft.	3815

NOISE REDUCTION DATA

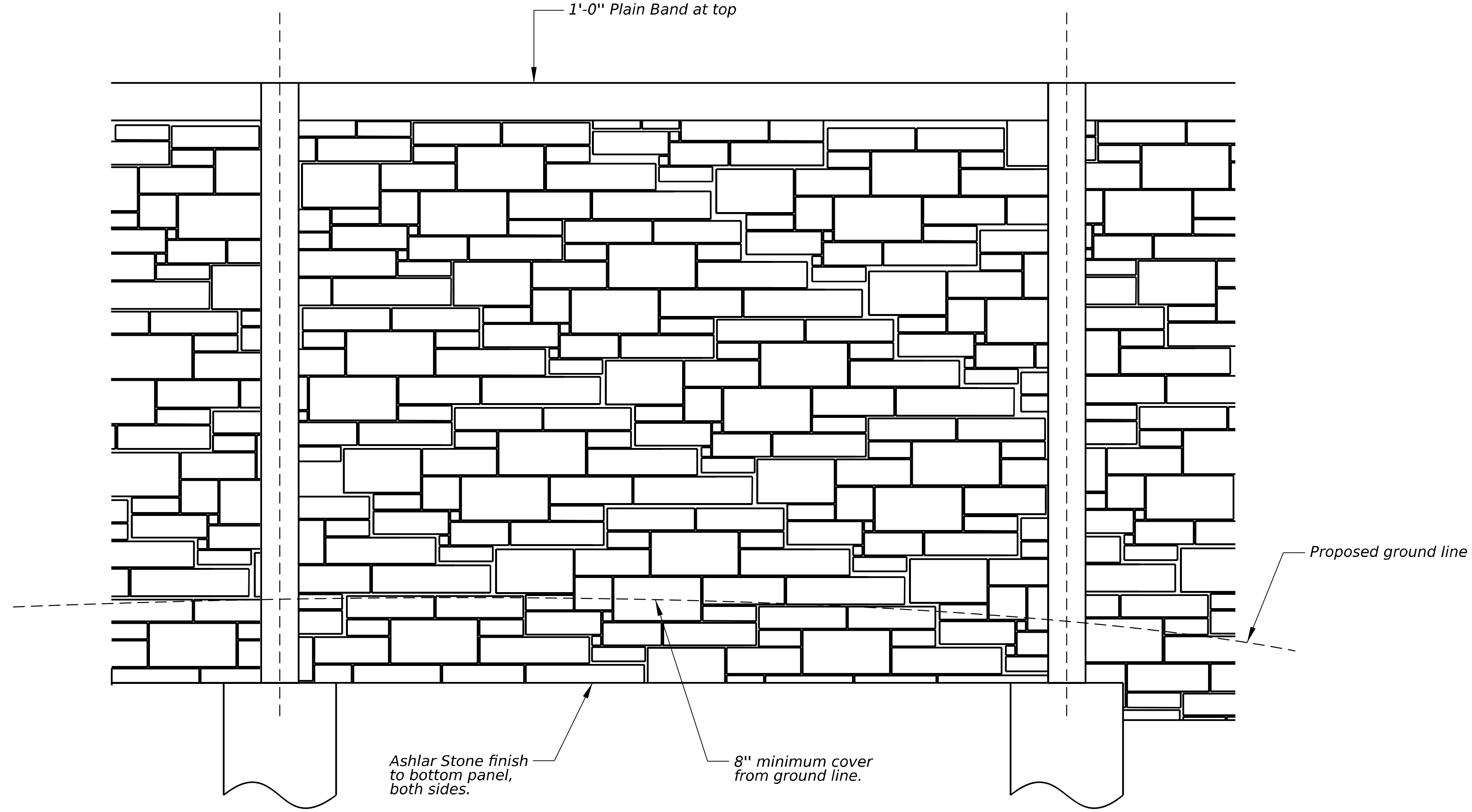
Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
Ramp 'A' face	605+79.74	608+12.34	Reflective	-
Residential face	605+79.74	608+12.34	Reflective	-

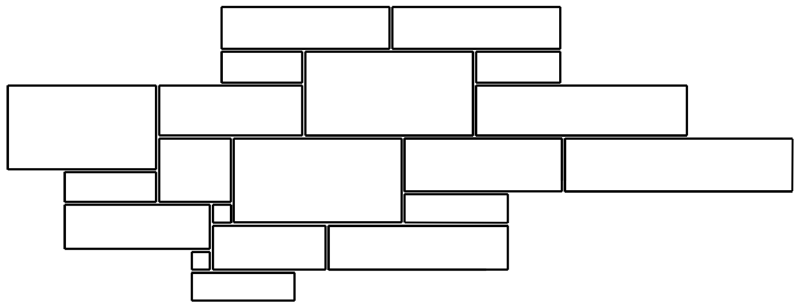


RAMP 'A'
TYPICAL SECTION ALONG NAW B26

Sta, 605+79.74 to Sta. 608+12.34
(Looking East)

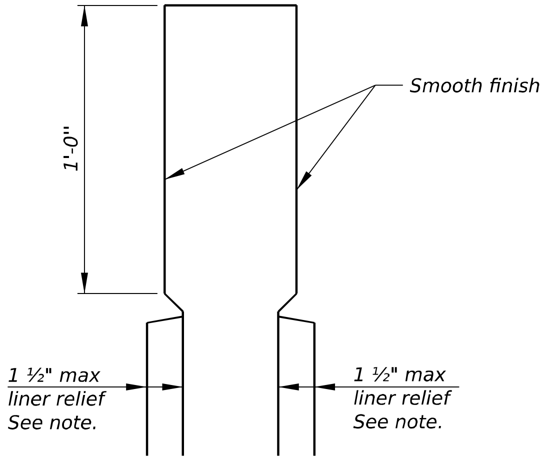
Notes:
Each side of the noise wall panels shall have a rolled ashlar stone finish. The finish shall have a 1 ½" relief for noise abatement wall, ground mounted. The color of both sides of the panels, plain band, posts and all other visible elements shall follow the special provisions.





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

ENLARGED PATTERN DETAIL



ENLARGED CAP DETAIL

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - MIS	REVISED -
		CHECKED - PJL	REVISED -
	PLOT SCALE = 0.16666667 ' / in.	DRAWN - GM	REVISED -
	PLOT DATE = 11/5/2025	CHECKED - MIS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS
NOISE ABATEMENT WALL B26 SN 099-N1029
SHEET SD-3 OF SD-3 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	929
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

MODEL: NOISE WALLS DETAILS
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Noise Abatement Wall/D162R23-SD3-NAWB26-DET.dgn

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIAL. LABOR AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION OF A DRY FIRE STANDPIPE SYSTEM INCLUDING ALL PARTS AUXILIARY TO THE WORK. THE DRAWINGS INDICATE THE GENERAL LOCATION OF PIPING, FITTINGS, ETC. SHALL BE COORDINATED WITH THE BRIDGE AND DRAINAGE CONTRACTORS, AND SHALL BE FIELD APPROVED BY THE ENGINEER.

2. PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13. HANGERS SHALL BE DESIGNED TO SUPPORT FIVE TIMES WEIGHT OF WATER FILLED PIPE PLUS 250 POUNDS AT EACH POINT OF PIPING SUPPORT.

3. THE SYSTEM SHALL BE HYDROSTATIC LEAK AND PRESSURE TESTED IN ACCORDANCE WITH NFPA 14 AND NFPA 13 UPON COMPLETION OF WORK. RESULTS SHALL BE SUBMITTED TO IDOT IN THE FORM OF A CONTRACTORS TEST CERTIFICATE. IDOT AND WATERMAIN OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO TESTING SO THAT THEY MAY WITNESS ALL TESTING. A SET OF STAMPED DRAWINGS SHALL BE PROVIDED TO IDOT AND THE JOLIET FIRE DEPARTMENT.

4. ALL PIPING SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF OPERATING PRESSURE AND SHALL MAINTAIN THAT PRESSURE FOR TWO HOURS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM FILLING DELIVERY TIME FLOW TEST PER NFPA 502.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WATER REQUIRED FOR TESTING THE STANDPIPES. ALL WATER USAGE AND METERING EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PAY ITEM FOR THE FIRE STANDPIPE SYSTEM.

7. THE FURNISHED AND INSTALLED MATERIALS SHALL BE NEW AND OF TYPE AND KINDS LISTED OR APPROVED BY THE FOLLOWING ORGANIZATIONS:
   - UNDERWRITERS LABORATORIES (UL)
   - FACTORY MUTUAL (FM)
   - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
   - NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA)

8. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.

9. THE MAXIMUM WORKING PRESSURE FOR ALL SYSTEM COMPONENTS SHALL BE 250 PSI.

10. PIPE SHALL BE SUPPORTED AT A MAXIMUM OF 10' INTERVALS FOR VERTICAL PIPE AND 7.5' FOR HORIZONTAL PIPE.

11. ALL MOUNTING HARDWARE SHALL BE GALVANIZED, AND ALL STANDPIPE EQUIPMENT RATED FOR OUTDOOR USE.

12. ALL PIPE SUPPORTS AND CONNECTIONS SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS, EXPERIENCED IN THE DESIGN OF PIPING SUPPORTS. STRUCTURAL ENGINEER SHALL SUBMIT COMPLETE DESIGN PACKAGE/CALCULATIONS FOR REVIEW. SUPPORT DETAILS SHOWN ARE CONCEPTUAL IN NATURE.

13. PROVIDE A MINIMUM 3" CLEARANCE AROUND HANGERS, SUPPORTS AND HOSE CONNECTIONS.

14. DRILLING THROUGH REINFORCEMENT IN THE PIER CAPS WHEN POST-INSTALLING ANCHOR BOLTS IS PROHIBITED. CONTRACTOR SHALL LOCATE REINFORCEMENT PRIOR TO DRILLING FOR ANCHORS.

GENERAL NOTES (CONTINUED)

15. PIPE ALIGNMENT SHALL BE SUCH THAT NO SECTIONS OF PIPE WILL HOLD WATER AFTER DRAINING OF THE SYSTEM WITHOUT AN ACCESSIBLE MEANS OF DRAINING. FIRE STANDPIPE PIPING SHALL HAVE A MINIMUM OF 0.3% SLOPE TO FACILITATE COMPLETE DRAIN DOWN.

16. AIR/VACUUM RELEASE VALVE SHALL BE LOCATED AT ALL BRIDGE LEVEL STORZ CONNECTIONS.

17. ANCHOR POINTS SHALL BE DESIGNED TO WITHSTAND ALL FORCES ACTING ON THE FIRE STANDPIPE, INCLUDING ACTIVATION FORCES.

18. NO LESS THAN ONE EXPANSION JOINT SHALL BE LOCATED BETWEEN TWO FIXED ANCHOR POINTS AND/OR AT ANY CHANGES IN DIRECTION THAT WILL PREVENT FREE MOVEMENT BETWEEN TWO FIXED ANCHOR POINT LOCATIONS.

19. NO EXPANSION JOINT SHALL HAVE LESS THAN 4" OF MOVEMENT.

20. ALL PIPE FITTINGS SHALL BE AWWA STYLE FITTINGS COMPATIBLE WITH DUCTILE IRON PIPING.

21. ALL PIPE AND FIRE STANDPIPE EQUIPMENT, WITHIN NO LESS THAN 20 FEET IN BOTH DIRECTIONS,
    OF FIRE DEPARTMENT CONNECTIONS AND/OR HOSE CONNECTIONS SHALL BE PAINTED RED.

22. HOSE CONNECTION POINTS ON BRIDGE DECK SHALL NOT BE SPACED GREATER THAN 250 FEET FROM ONE ANOTHER.

INDEX OF SHEETS

ABBREVIATIONS AND ACRONYMS

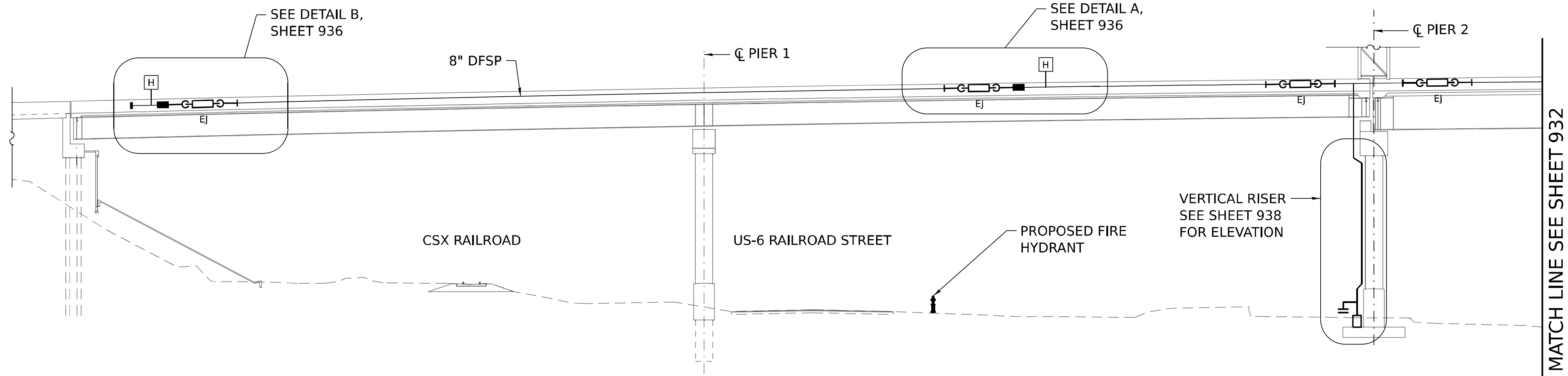
ABD	AUTOMATIC BALL DRIP
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ATM	ACTIVE TRAFFIC MANAGEMENT
ATS	ATTACHED TO STRUCTURE
AWWA	AMERICAN WATER WORKS ASSOCIATION
AVVV	AIR VACUUM VENT VALVE
CL	CLASS
DFSP	DRY FIRE STANDPIPE
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
DN	DOWN
EB	EASTBOUND
EJ	EXPANSION JOINT
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
HH	HANDHOLE
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
IPDC	INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATIONS
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
L SUM	LUMP SUM
MP	MILEPOST
N.T.S.	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
TYP	TYPICAL
WB	WESTBOUND

FIRE STANDPIPE LEGEND

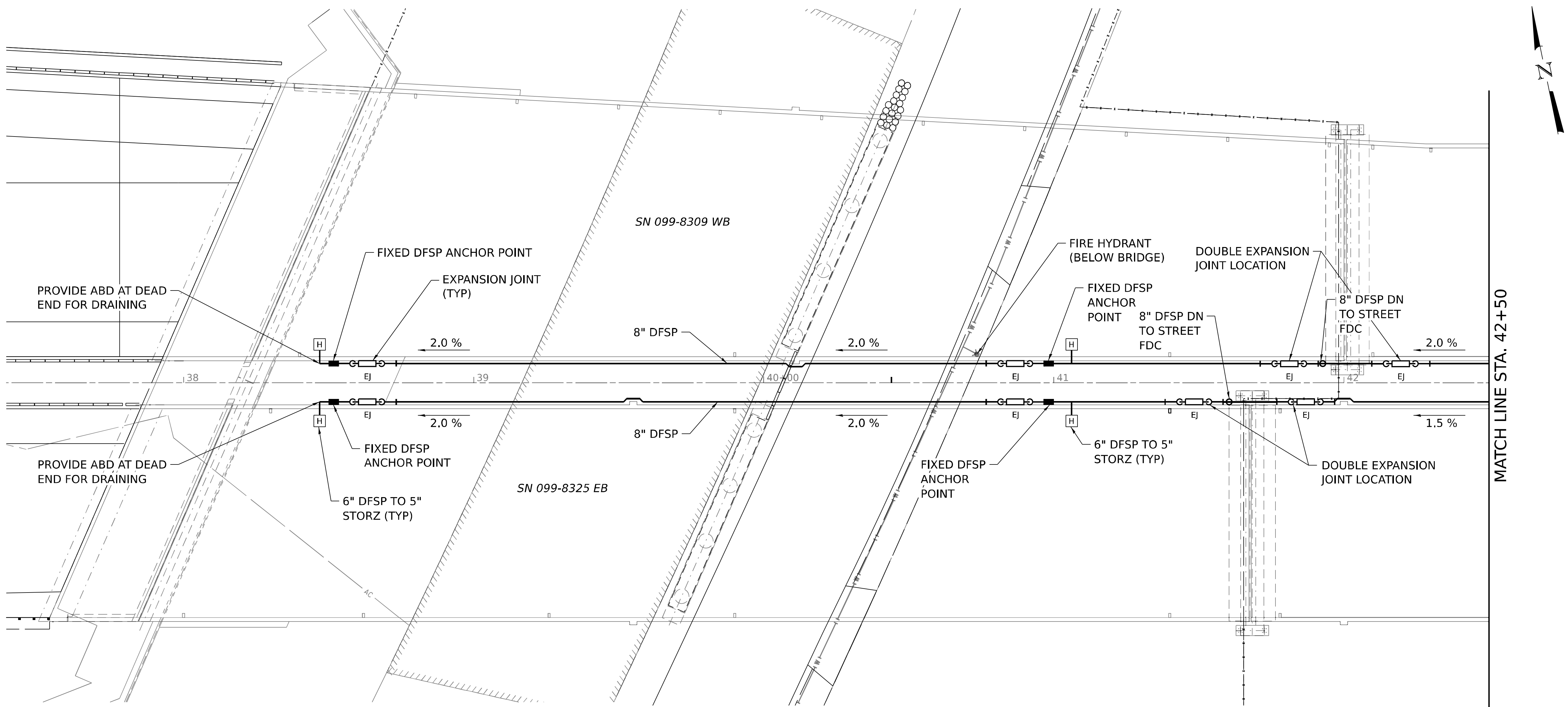
H	HOSE CONNECTION ASSEMBLY
	DI PIPING ATTACHED TO BRIDGE STRUCTURE
	PROPOSED FIRE HYDRANT
AVVV	PROPOSED AIR VACUUM VENT VALVE
	PROPOSED PIPING ANCHOR (FIXED)
	PROPOSED PIPING GUIDE (ALLOWS AXIAL MOVEMENT)
EJ	PROPOSED PRESSURE BALANCED BALL TYPE EXPANSION JOINT (MOVEMENT COMPENSATOR)
	PROPOSED 5-INCH STORZ TYPE FIRE DEPARTMENT CONNECTION
W	EXISTING UNDERGROUND WATER

BILL OF MATERIAL

Item	Unit	Quantity
FIRE STANDPIPE SYSTEM, LOCATION 1	L SUM	1
FIRE STANDPIPE SYSTEM, LOCATION 2	L SUM	1



ELEVATION
(ALONG SOUTH FACE - LOOKING NORTH)



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

USER NAME = USGM717780	DESIGNED - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 40.000 ' / in.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE STANDPIPE PLAN 1

SHEET 2 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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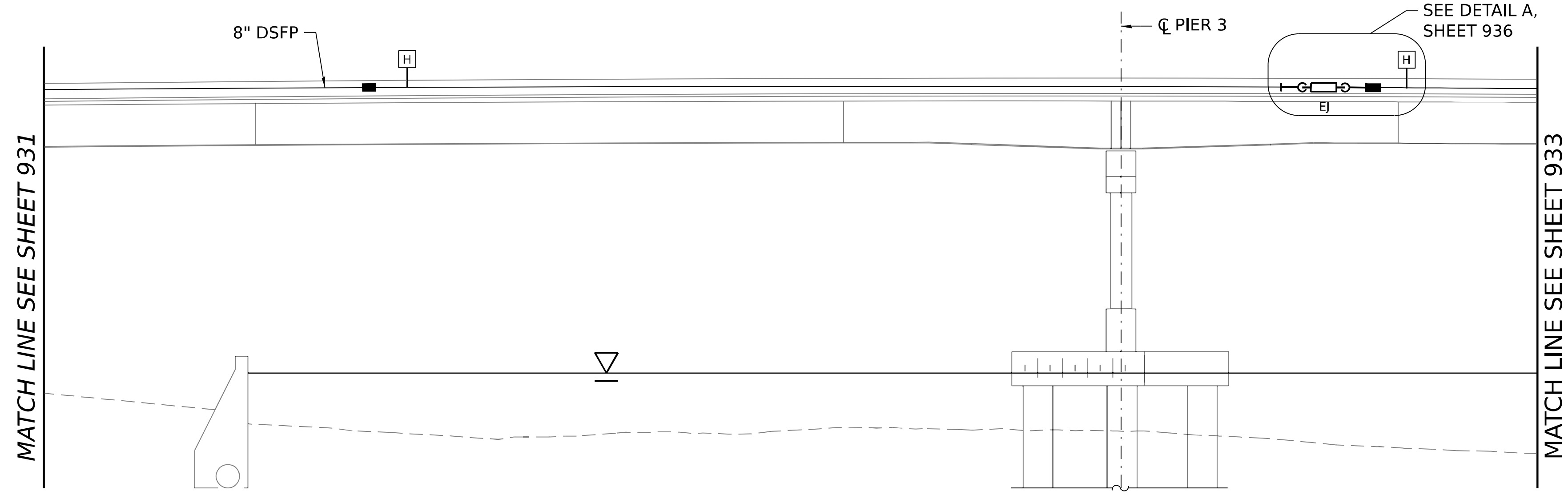
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



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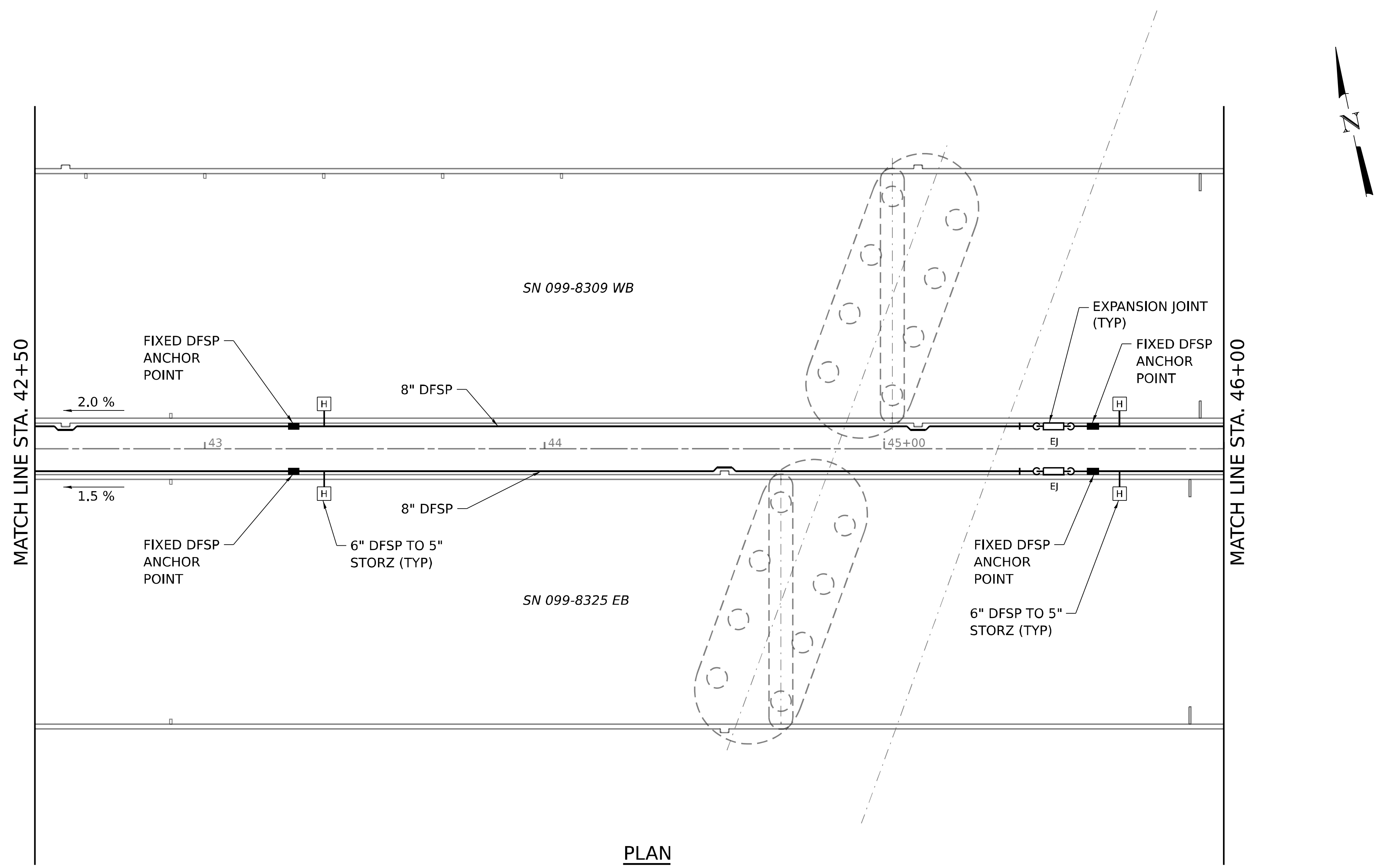

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WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - NC	REVISED -
		CHECKED - PJL	REVISED -
	PLOT SCALE = 40.000 ' / in.	DRAWN - GM/SJJ	REVISED -
	PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE STANDPIPE PLAN 2

SHEET 3 OF 12 SHEETS

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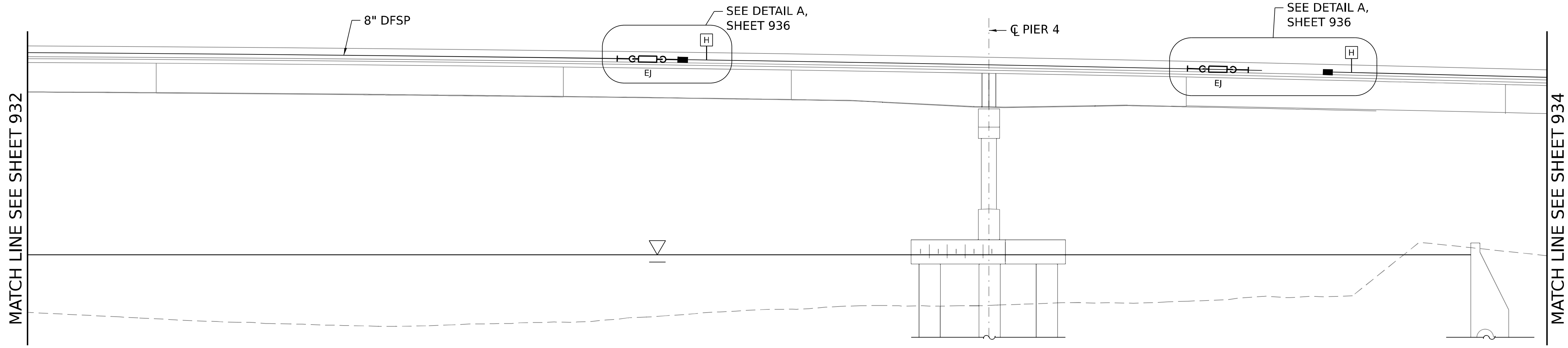
		ILLINOIS	FED. AID PROJECT	



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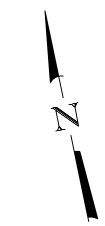

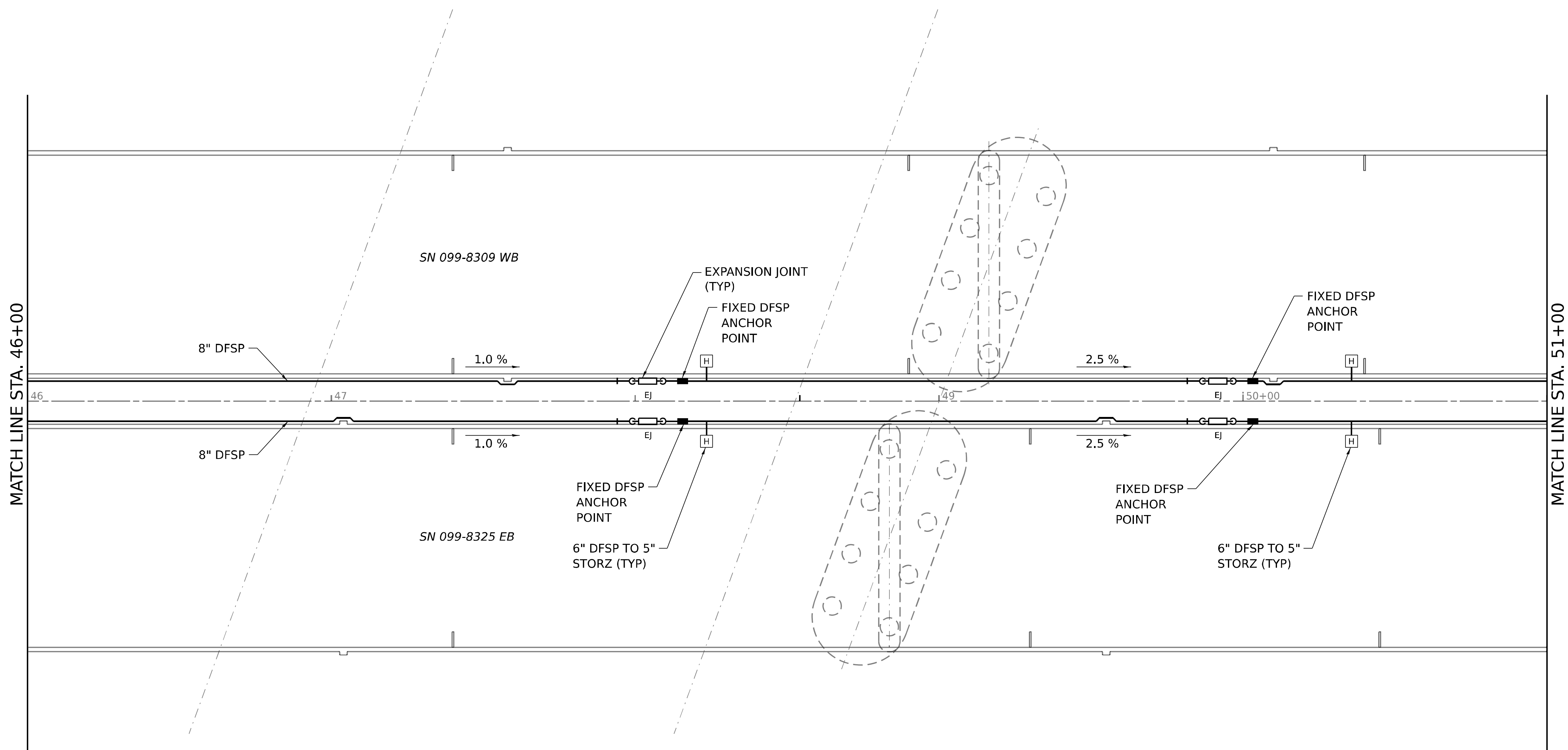

PLAN

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

USER NAME = USGM717780	DESIGNED - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 40.000 ' / in.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE STANDPIPE PLAN 3

SHEET 4 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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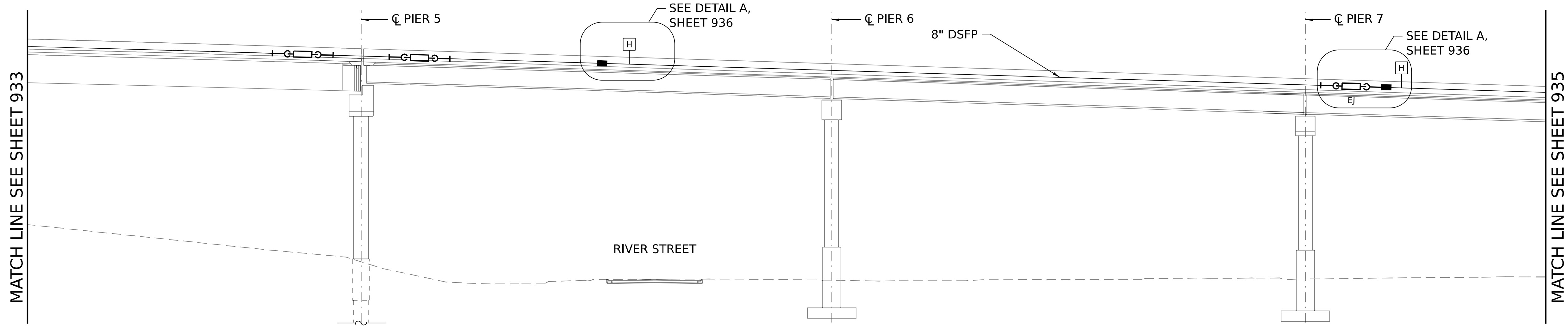
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		



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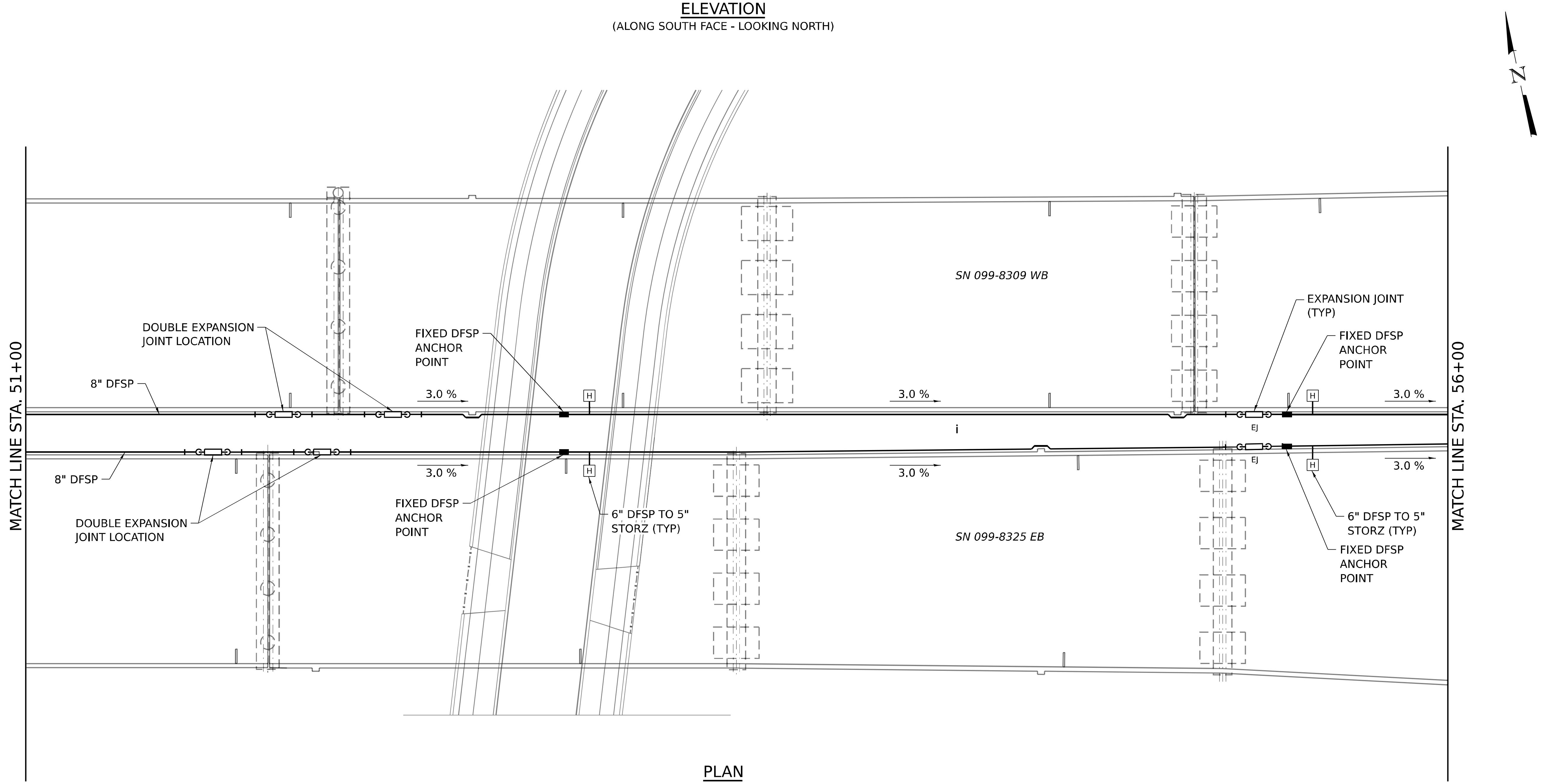

PLAN

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USGM717780	DESIGNED - NC	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		CHECKED - PJL	REVISED -	
	PLOT SCALE = 40.000 ' / in.	DRAWN - GM/SJJ	REVISED -	
	PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

FIRE STANDPIPE PLAN 4

SHEET 5 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	934
CONTRACT NO. 62R23				
ILLINOIS	FED. AID PROJECT			

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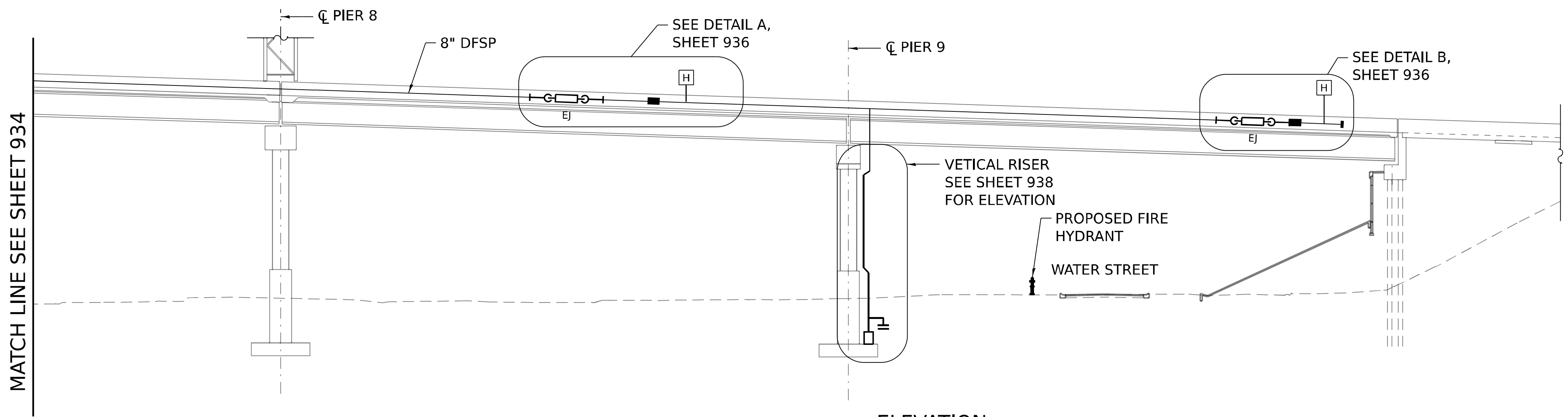

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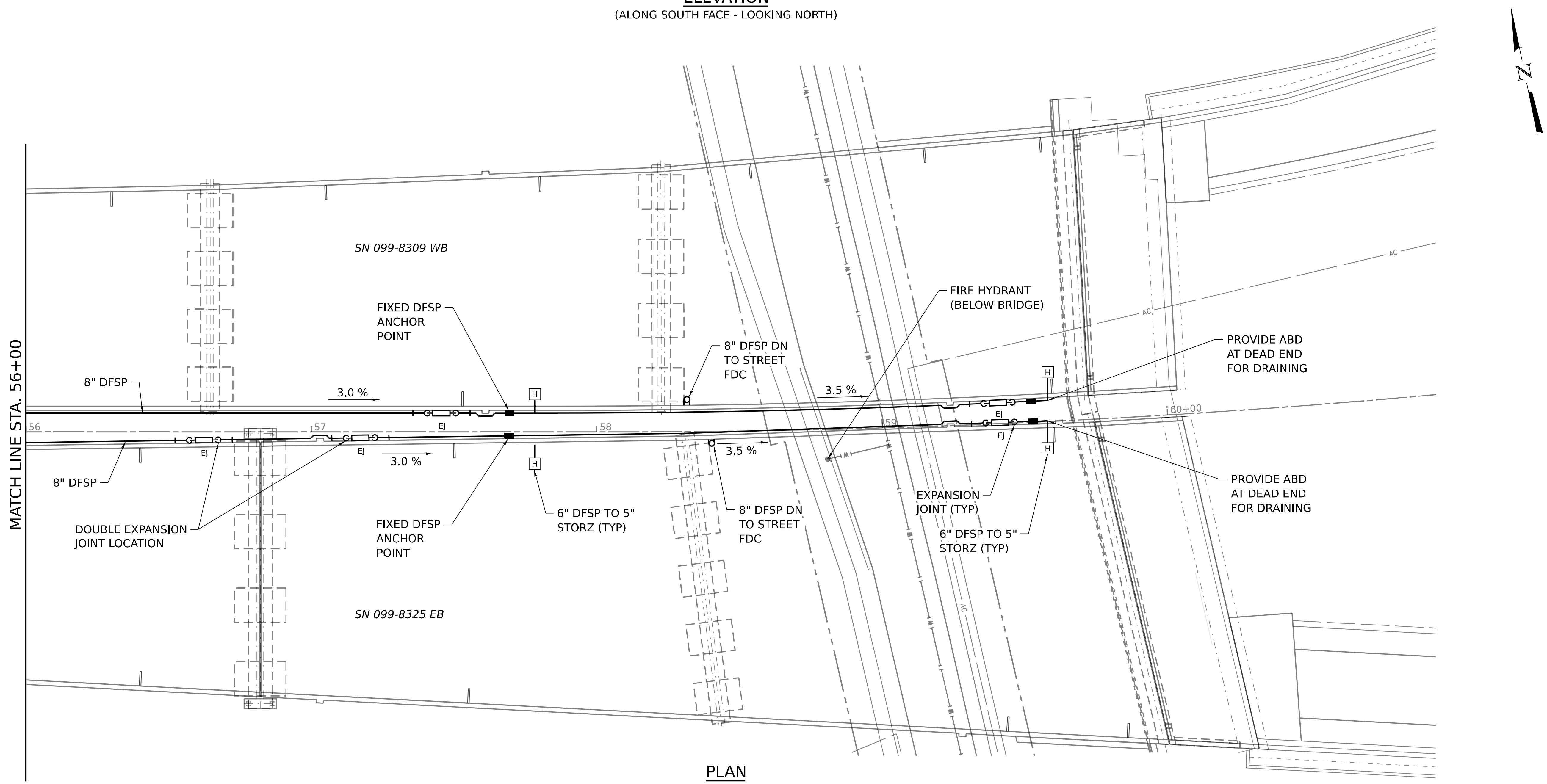

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WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 40.000 ' / in.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE STANDPIPE PLAN 5

SHEET 6 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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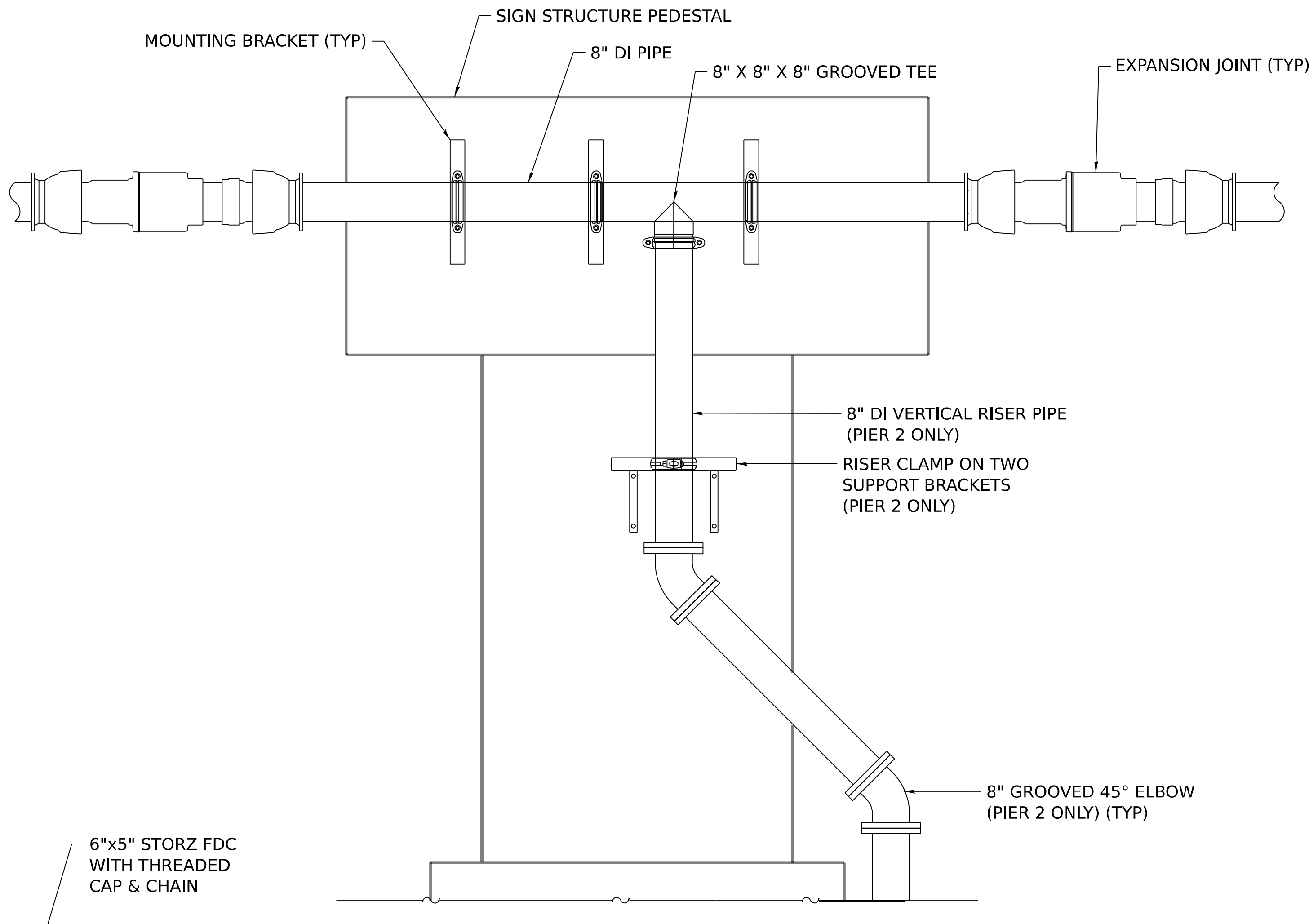
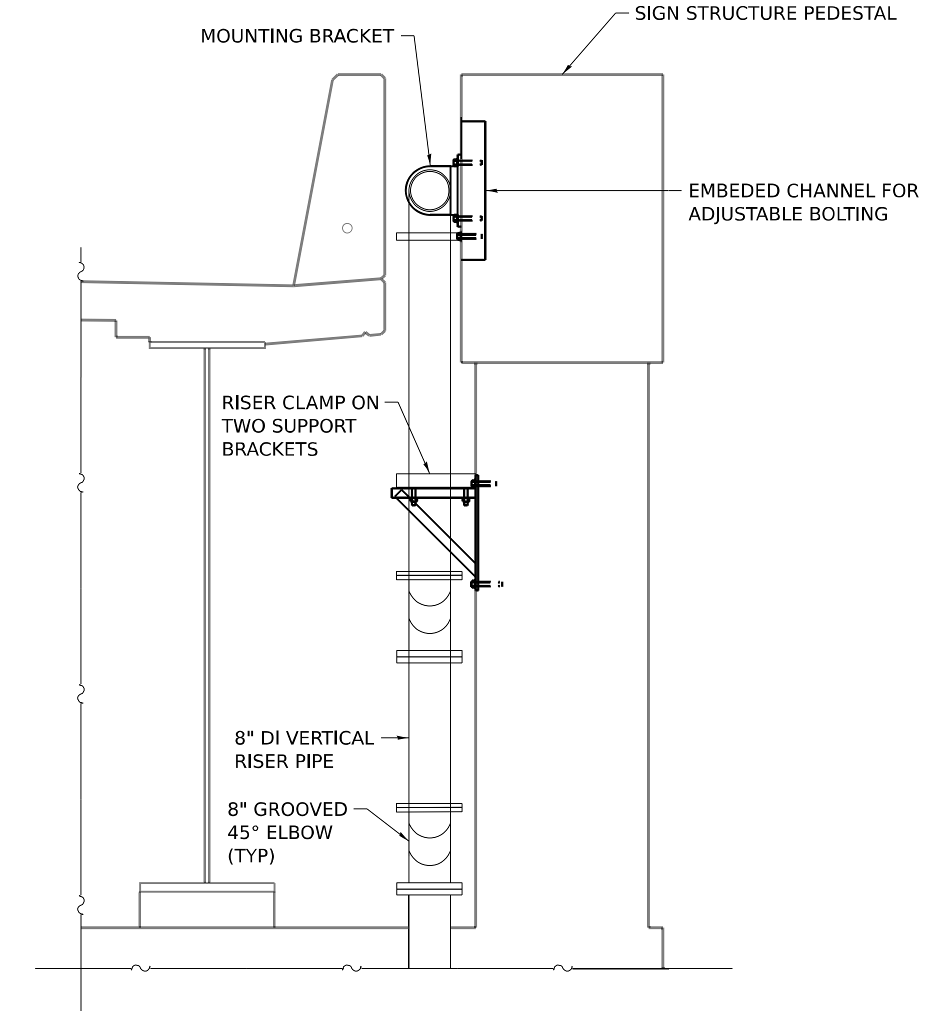
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		



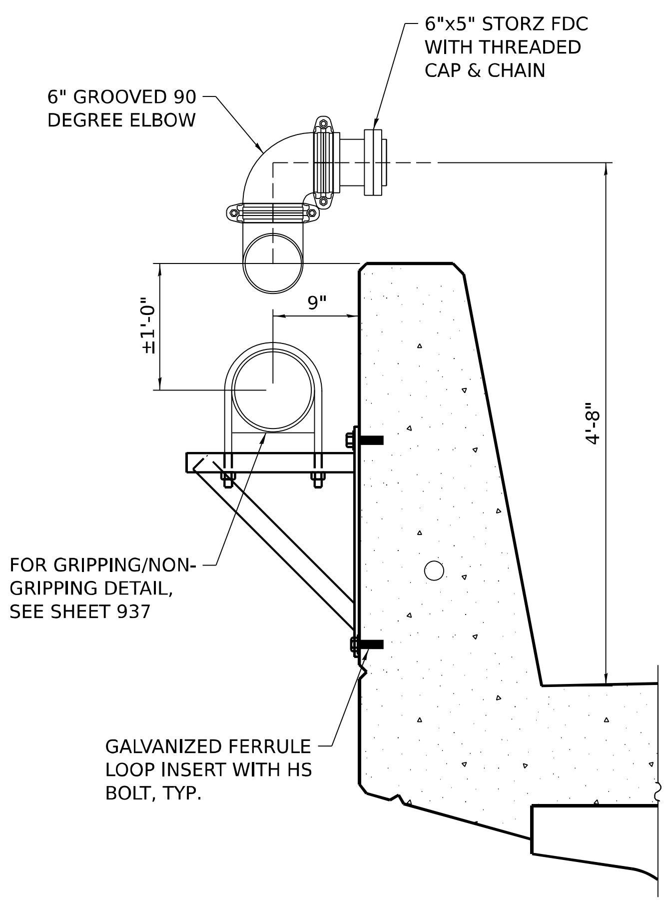
TYPICAL DETAIL AT PIER 2 WB, PIER 2 EB & PIER 8 EB

(VERTICAL RISER ONLY AT PIER 2 WB & PIER 2 EB)

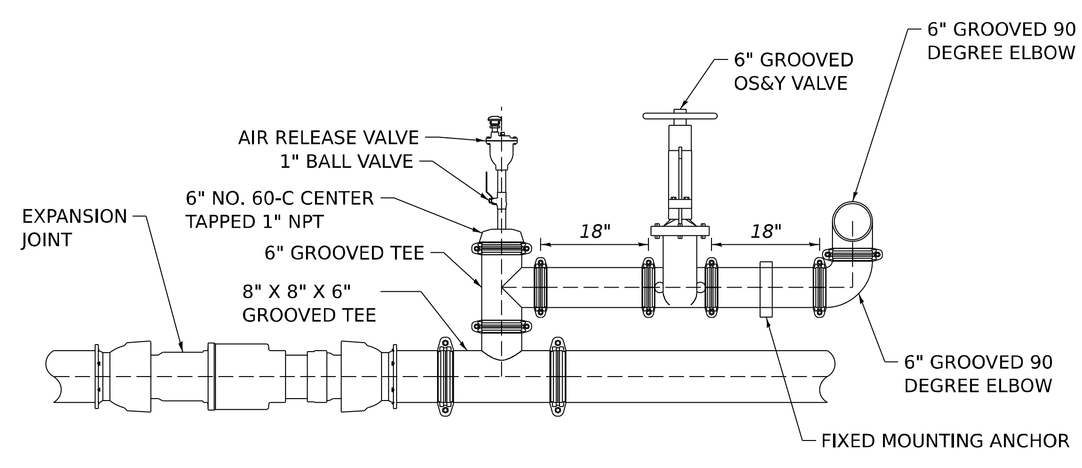


TYPICAL END VIEW AT PIER 2 WB, PIER 2 EB & PIER 8 EB

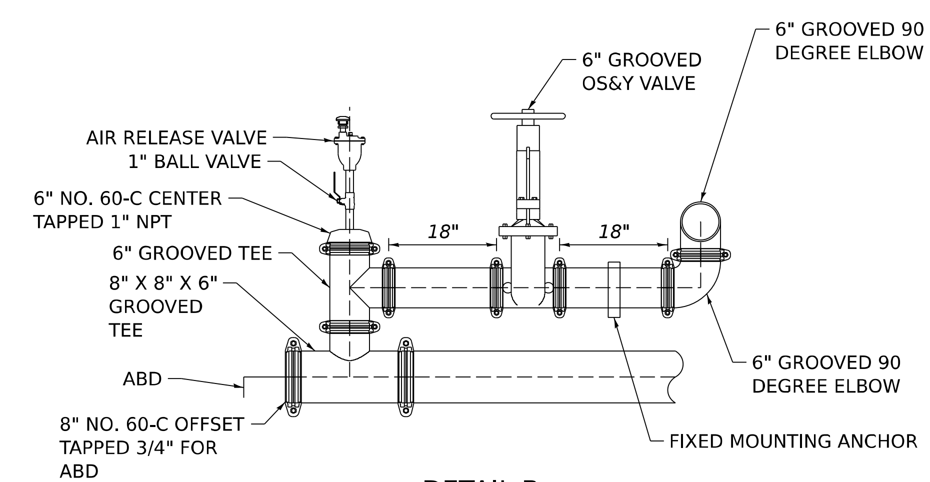
(VERTICAL RISER ONLY AT PIER 2 WB & PIER 2 EB)



TYPICAL BRACKET DETAIL



DETAIL A



DETAIL B

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

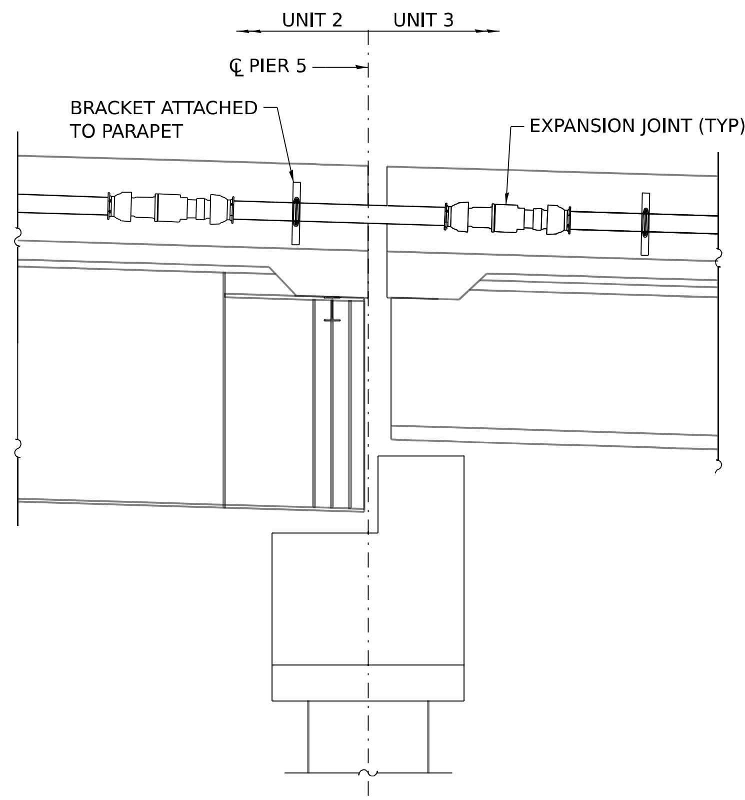
USER NAME = USGM717780	DESIGNED - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

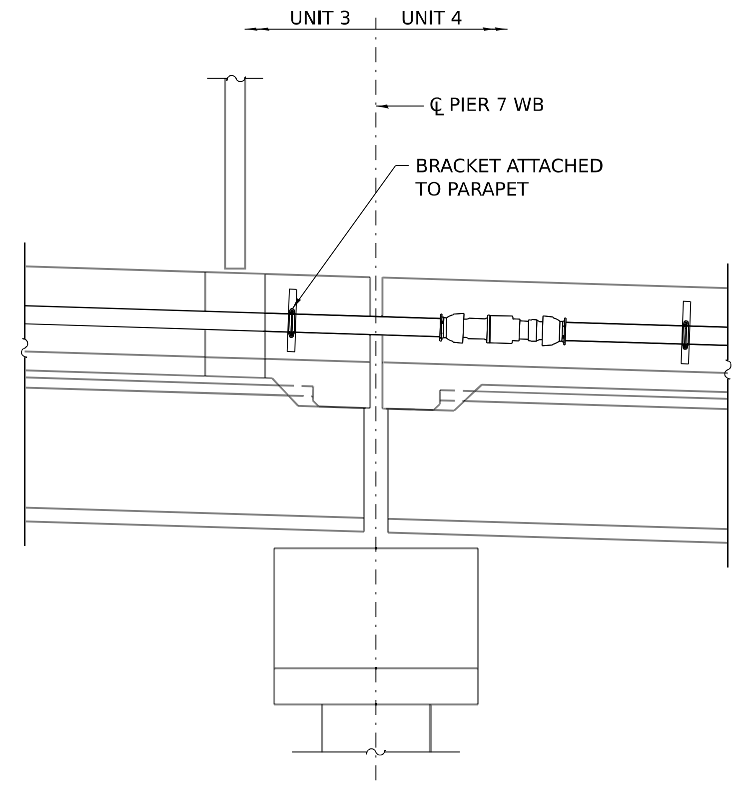
FIRE STANDPIPE DETAILS 1

SHEET 7 OF 12 SHEETS

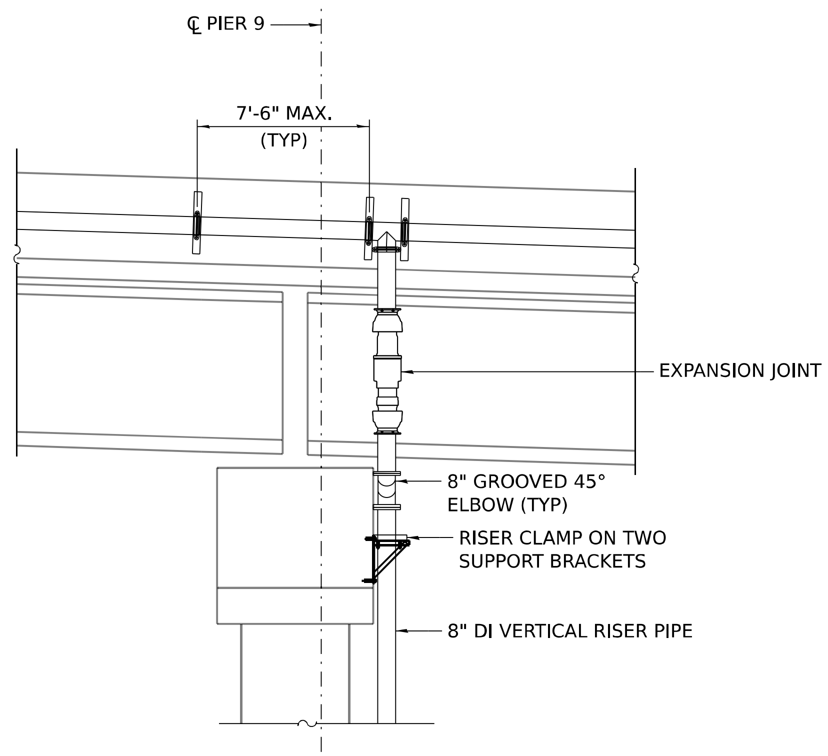
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	936
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



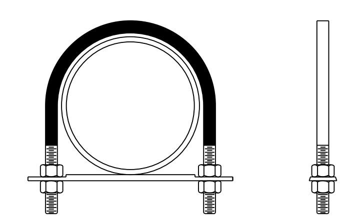
DETAIL AT PIER 5 WB & EB



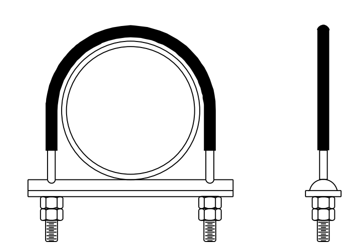
DETAIL AT PIER 7 WB



DETAIL AT PIER 9 WB & EB



DETAIL NON-GRIPPING PIPE GUIDE



DETAIL GRIPPING ANCHOR POINT DETAIL

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 - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

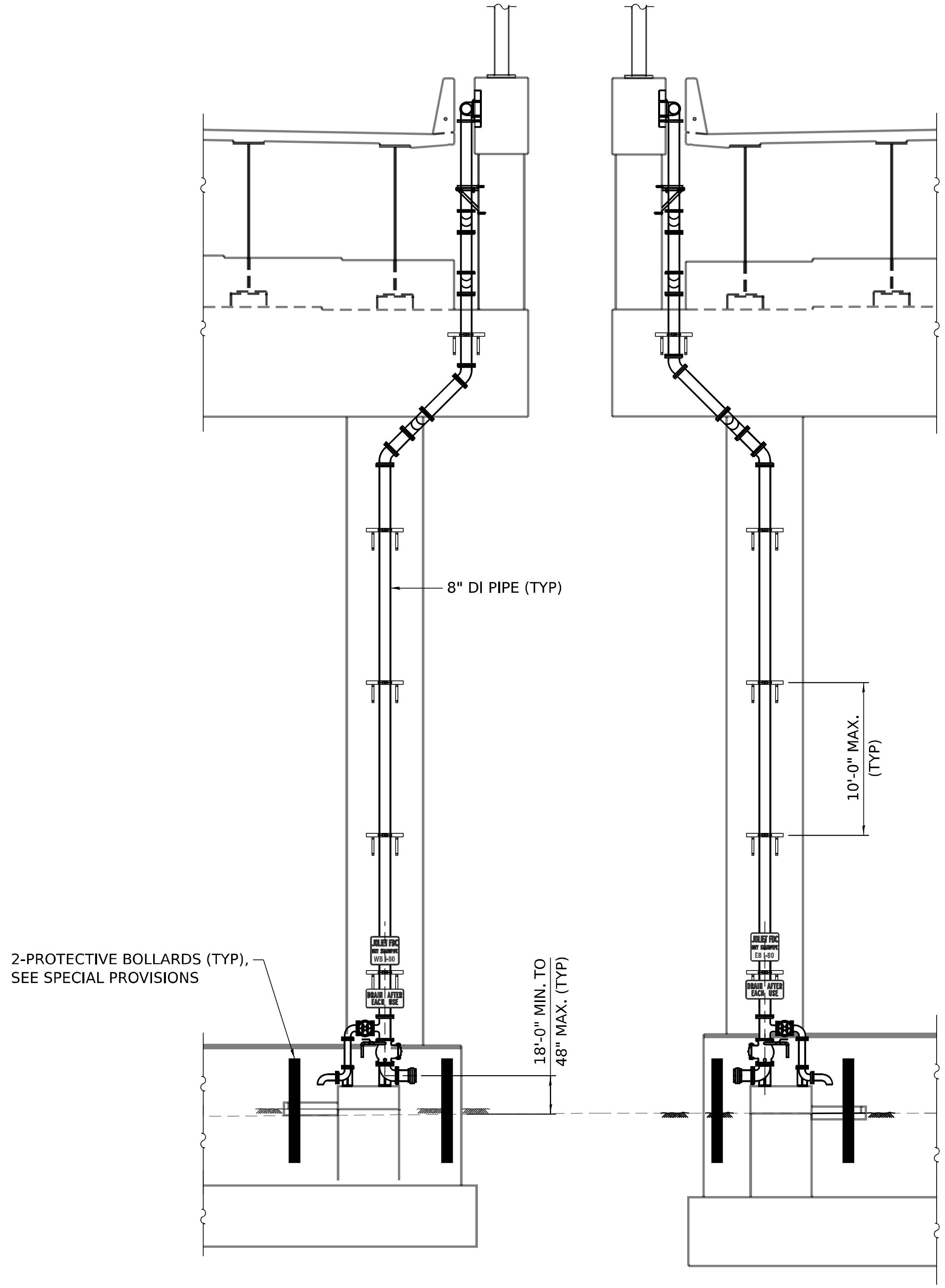
FIRE STANDPIPE DETAILS 2

SHEET 8 OF 12 SHEETS

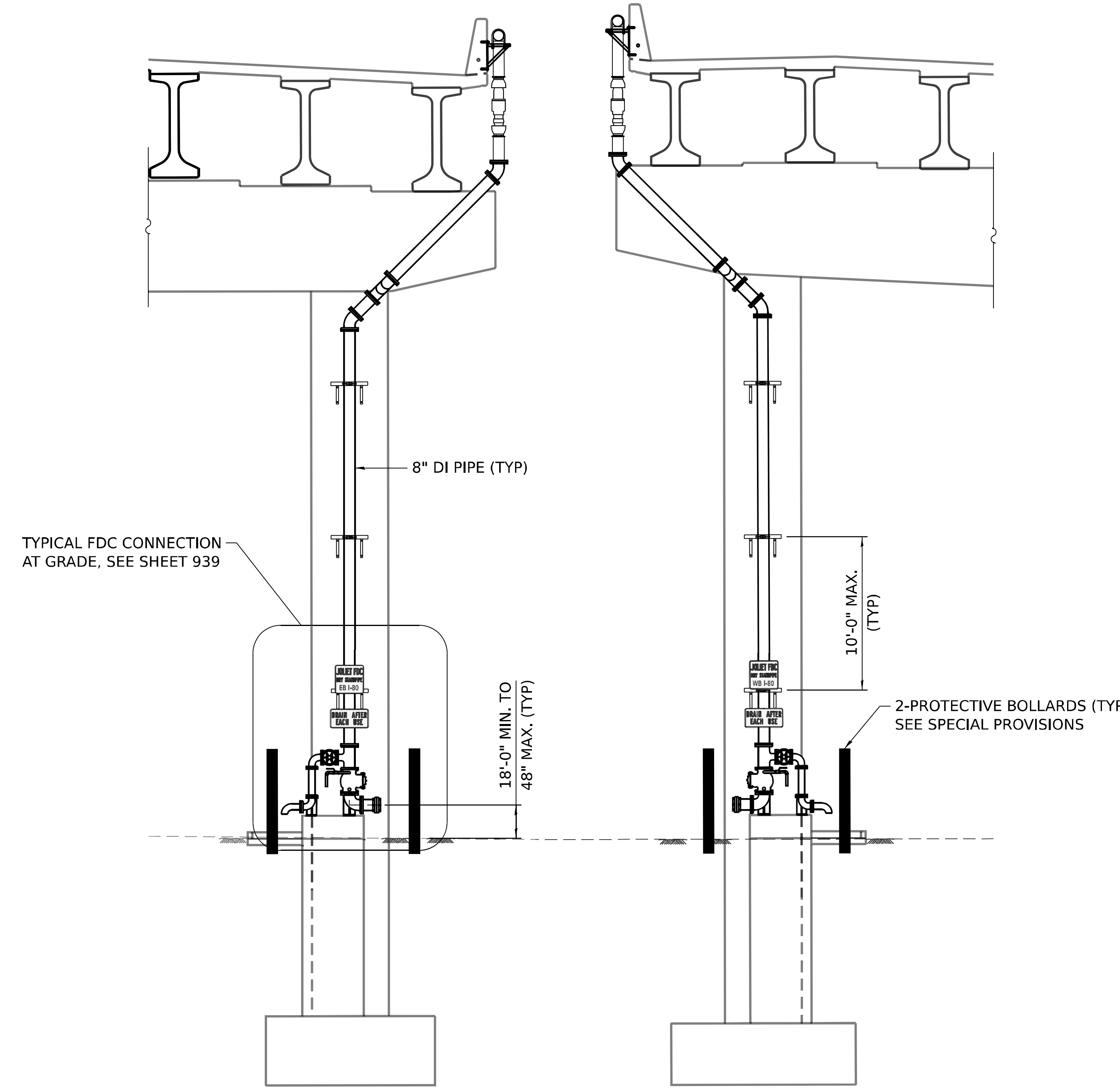
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	937

CONTRACT NO. 62R23

ILLINOIS | FED. AID PROJECT



PIER 2 RISER ELEVATION
(LOOKING EAST)



PIER 9 RISER ELEVATION
(LOOKING WEST)

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

USER NAME = USGM717780	DESIGNED - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

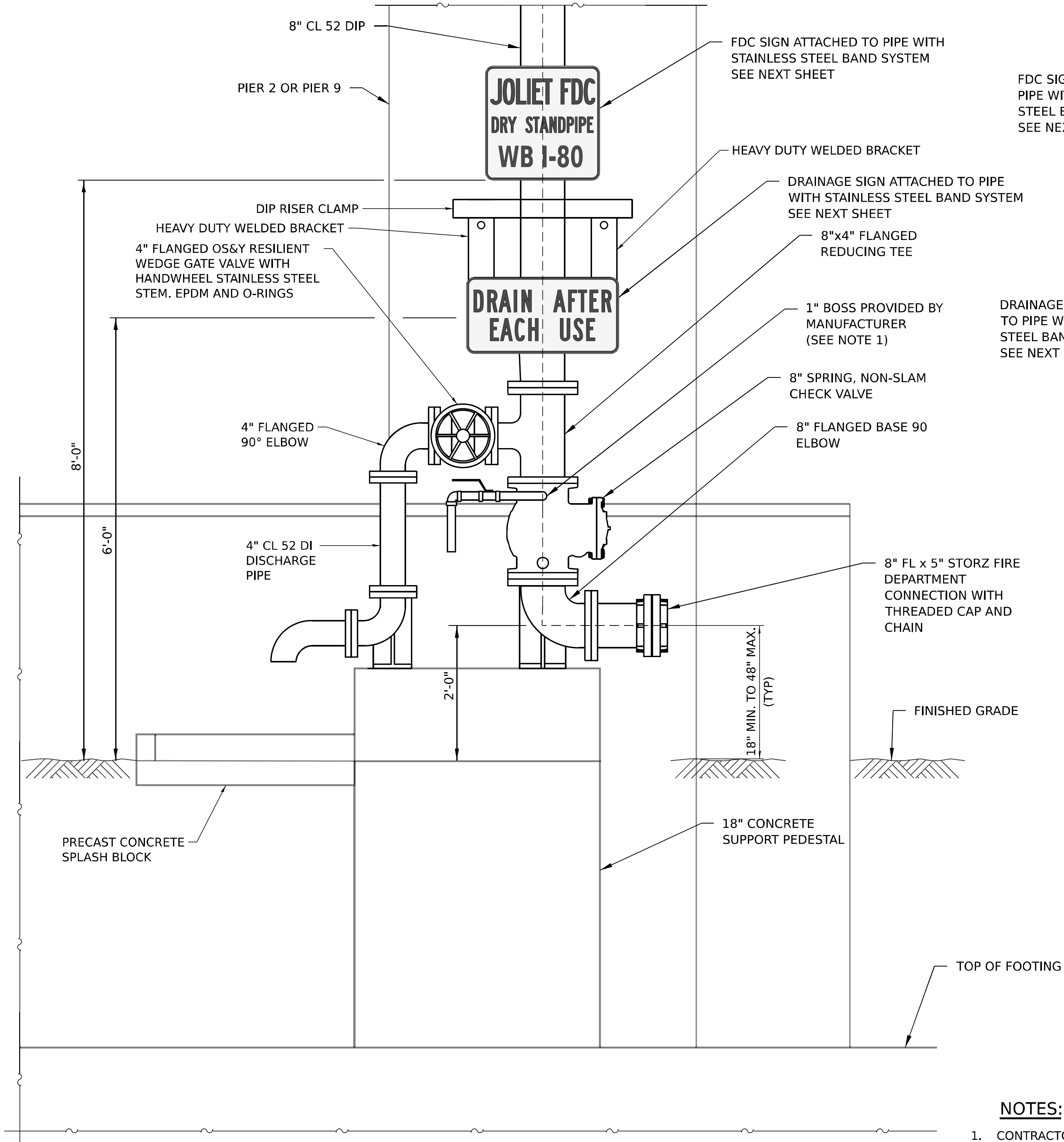
FIRE STANDPIPE DETAILS 3

SHEET 9 OF 12 SHEETS

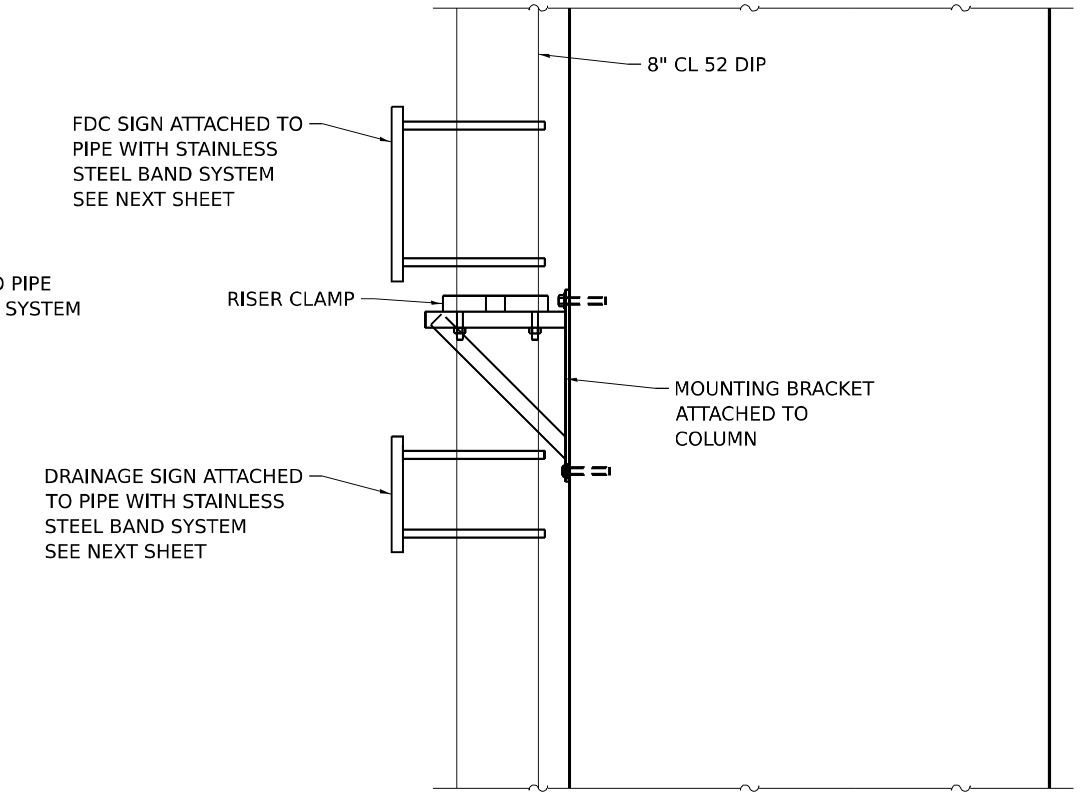
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	938

CONTRACT NO. 62R23

ILLINOIS | FED. AID PROJECT



TYPICAL FDC CONNECTION AT GRADE



TYPICAL RISER ELEVATION

NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL 1" STAINLESS STEEL BALL VALVE AND PIPE TO DRAIN WATER BETWEEN TEE AND DOWNSTREAM SIDE OF SWING CHECK VALVE

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

USER NAME = USGM717780	DESIGNED - NC	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

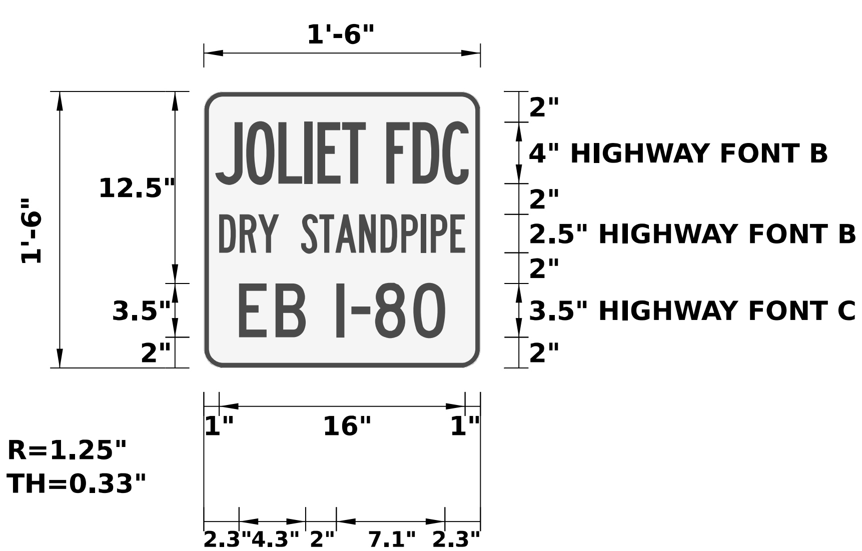
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE STANDPIPE DETAILS 4

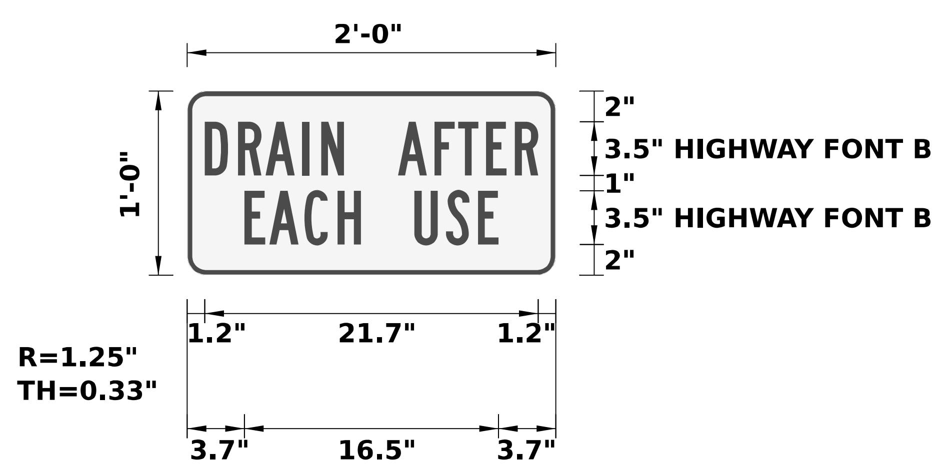
SHEET 10 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	939
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

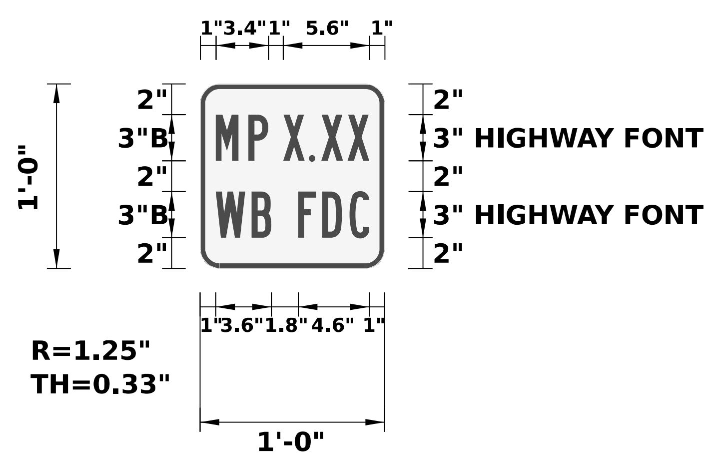
FDC SIGN EB
(WB SIGN SIMILAR)



DRAINAGE SIGN



LOCATION IDENTIFIER SIGN WB
(EB SIGN SIMILAR)



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30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
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	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - GM/SJJ	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

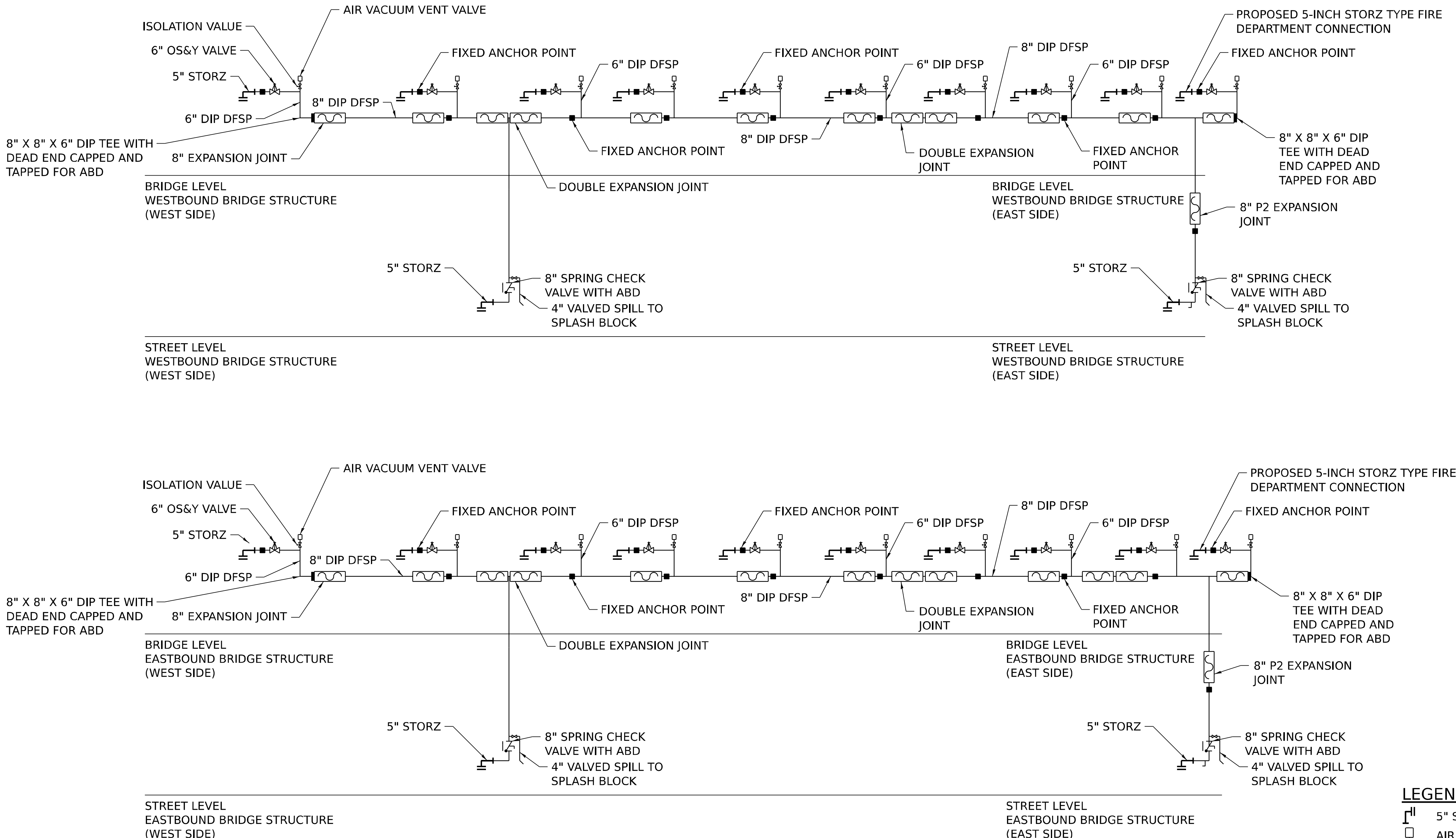
FIRE STANDPIPE DETAILS 5

SHEET 11 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	940

CONTRACT NO. 62R23

ILLINOIS | FED. AID PROJECT



FIRE STANDPIPE RISER DIAGRAM

LEGEND

- 5" STORZ CONNECTION
- AIR VACUUM VENT VALVE
- P2 BALL JOINTS
- BALL VALVE
- CAP
- CHECK VALVE WITH ABD
- FLEX-TEND FORCE BALANCED EXPANSION JOINT
- GATE VALVE
- OS&Y VALVE
- AUTOMATIC BALL DRIP
- FIXED ANCHOR POINT

MODEL: Default

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

USER NAME = USGM717780	DESIGNED -	NC	REVISED -		
	CHECKED -	PJL	REVISED -		
PLOT SCALE = N.T.S.	DRAWN -	GM/SJJ	REVISED -		
PLOT DATE = 11/5/2025	CHECKED -	PJL	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE STANDPIPE RISER DIAGRAM

SHEET 12 OF 12 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 2	WILL	1230	941
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

Existing Structure: S.N. 099-0056 (EB) and S.N. 099-0057 (WB) were built in 1964 under Federal Aid Interstate Route 80 Project I-80-4(13)133 Section 99-3B, I-80-4(56)133 Section 99-3 F&E, I-UI-80-4(57)133 Section 99-3P, and I-UI-80-4(57)I33 Section 99-3D. The existing 27-span structures have total lengths of approximately 2,362'-6" (EB) and 2,300'-0" (WB). S.N. 099 0056 (EB) has an out to out width varying from 60'-0" to 48'-0" from the west abutment to span 6, and varying from 46'-7½" to 49'-6" from the truss span to the east abutment. S.N. 099-0057 (WB) has an out to out width varying from 74'-0" to 48'-0" from the west abutment to span 6, and varying from 46'-7½" to 65'-6" from the truss to the east abutment. The existing superstructures consist of a 3-span continuous, cantilever through truss over the Des Plaines River (Spans 7 through 9) and simple and continuous approach spans with steel beams and variable thickness deck (6 1/4" min.) and concrete overlay. The existing substructures consists of concrete abutments and multi-column or two column piers. Existing abutments are supported on steel piles and the piers are supported on spread footings. The existing structure is to be partially demolished where in conflict with the proposed structure in this contract and the remainder in a separate contract.

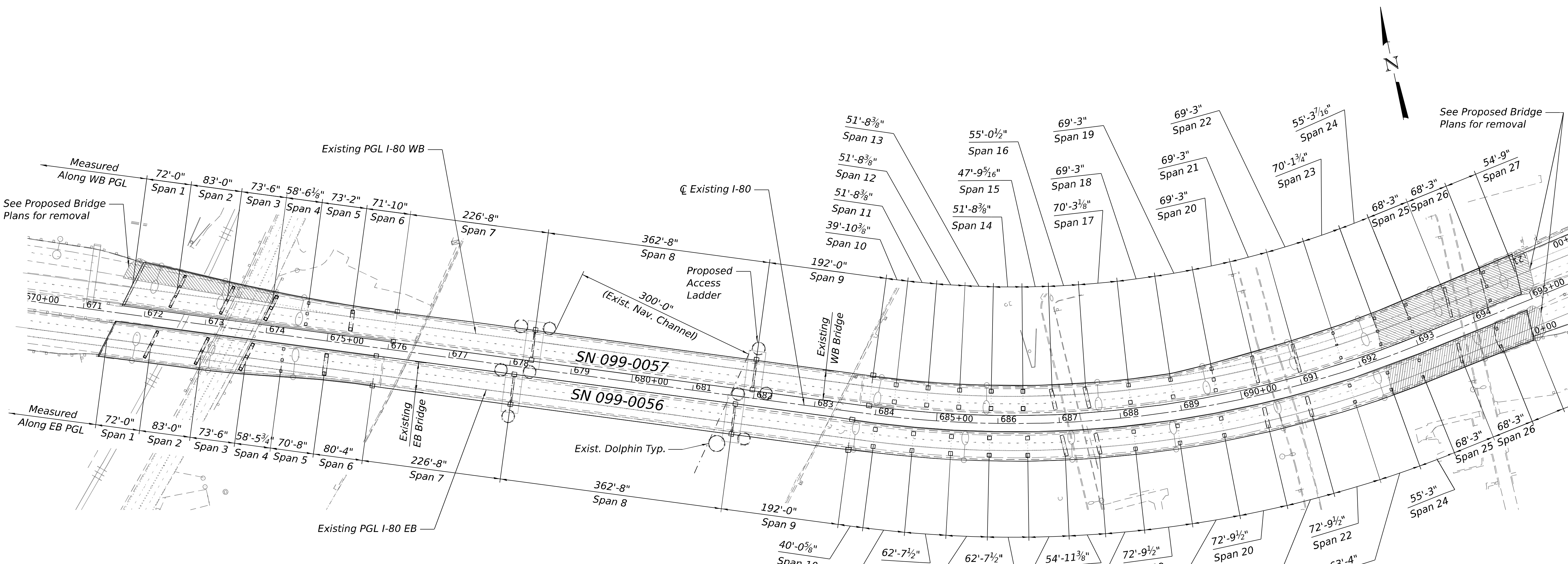
Stage construction shall be utilized to maintain traffic during construction.

No salvage.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Access Ladder	Each	1
Structural Steel Repair	Pound	9,490
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	537
Deck Slab Repair (Partial)	Sq. Yd.	1,343



PLAN

62'-7½" Span 11
62'-7½" Span 12
62'-7½" Span 13
62'-7½" Span 14
60'-7⅛" Span 15
54'-11⅜" Span 16
59'-3⅛" Span 17
72'-9½" Span 18
72'-9½" Span 19
72'-9½" Span 20
72'-9½" Span 21
72'-9½" Span 22
63'-4" Span 23

NOTES:

1. Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Contractor shall not scale dimensions from the contract plans for construction purposes.
3. Deck slab repair areas are based upon 5% of the deck needing partial depth repairs, and 2% of the deck needing full depth repairs. Actual location and size of deck repairs 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".
4. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts ¾ in. diameter, holes ¹³⁄₁₆ in. diameter, unless otherwise noted.
5. All structural steel shall be AASHTO M270 Grade 50.
6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

SCOPE OF WORK

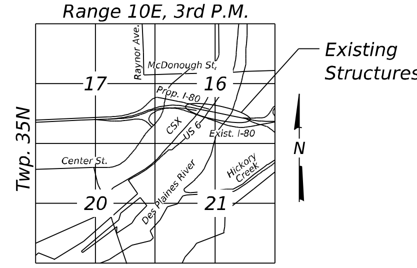
1. Perform partial or full depth deck slab repair.
2. Replace Access Ladder at Exist. Dolphin.
3. Perform structural steel repair.

STATE OF ILLINOIS
PATRICK J. LAUX
081-007655
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Patrick J. Laux 10/14/2025

Patrick J. Laux, P.E., S.E.
State of Illinois Lic. No. 081-007655
License Expires 11-30-2026.
This stamp applies to sheets 1 thru 7

Range 10E, 3rd P.M.



LOCATION SKETCH

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	CHECKED - PJL	REVISED -	
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PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 1 OF 7 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	942
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

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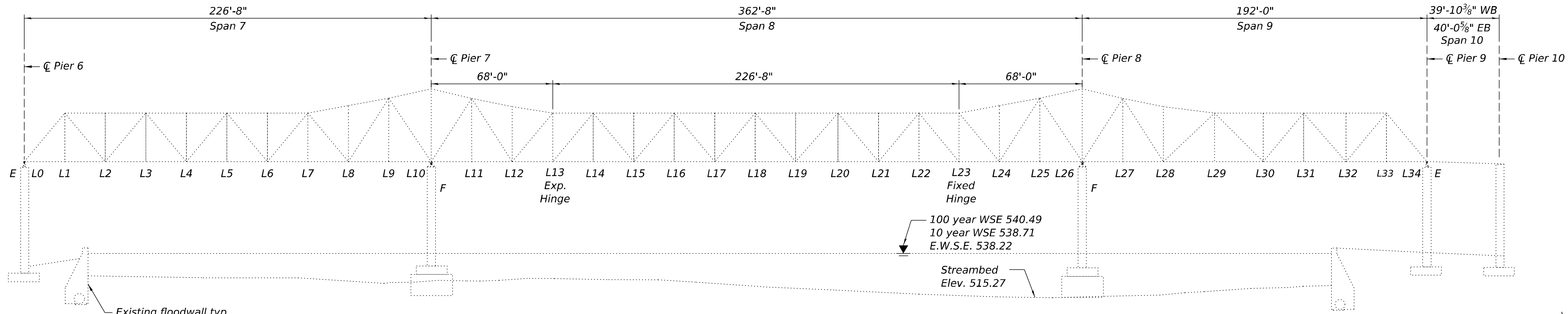
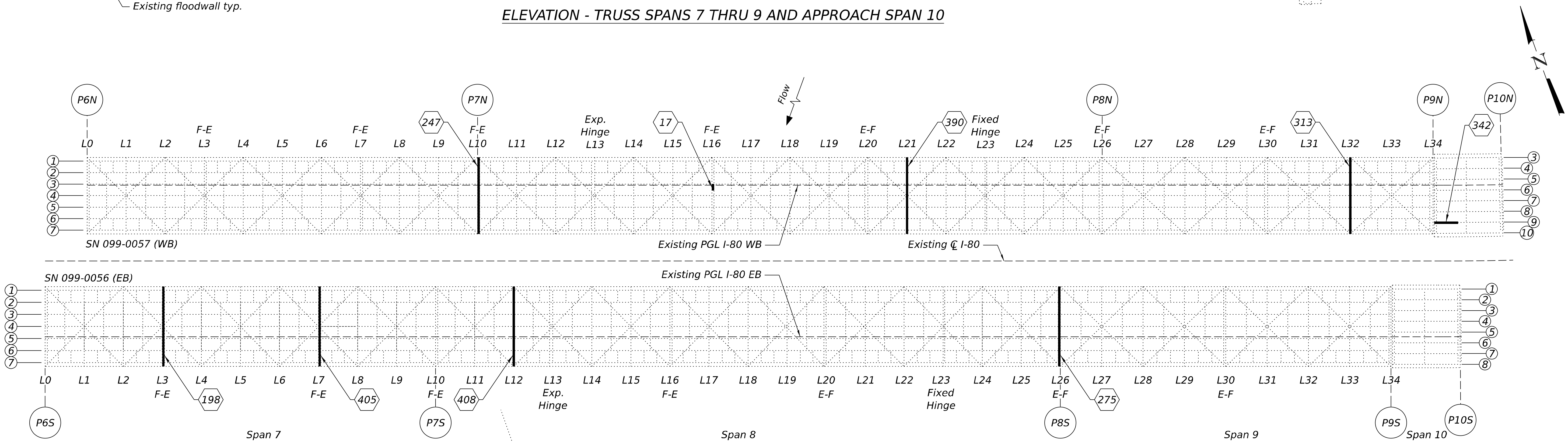


ELEVATION - TRUSS SPANS 7 THRU 9 AND APPROACH SPAN 10



FRAMING PLAN - TRUSS SPANS 7 THRU 9 AND APPROACH SPAN 10

-- - Repair Detail # from 2025 Inspection
(See Table for Locations)

TABLE OF REPAIR LOCATIONS

SN 099-0056 (EB)			SN 099-0057 (WB)		
Item	Span	F.B.	Item	Span	F.B.
198	7	3	247	7/8	10
405	7	7	17	8	16
408	8	12	390	8	21
275	8/9	26	313	9	32
			342	10	-

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

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PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

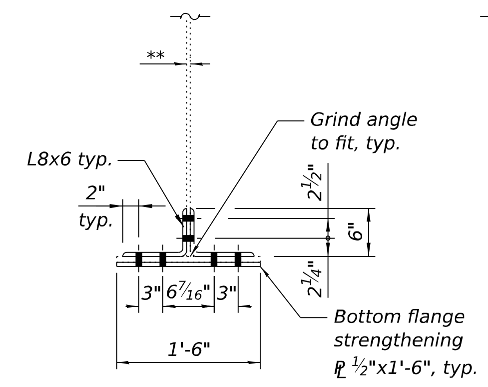
STEEL REPAIR KEY PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 2 OF 7 SHEETS

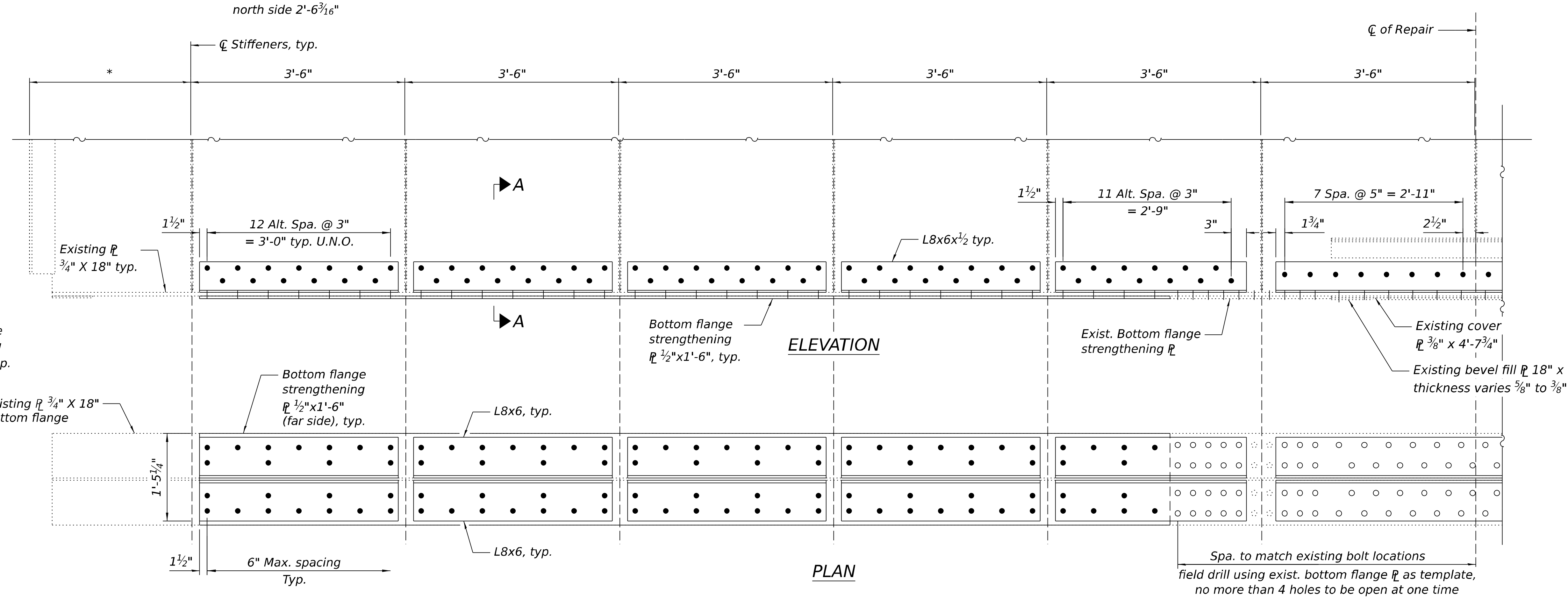
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	943
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

* Floorbeam 3 - Item 198-EB south side 2'-7 11/16"
north side 2'-7 3/16"
Floorbeam 7 - Item 405-EB south side 2'-7 11/16"
north side 2'-7 3/16"
Floorbeam 21 - Item 390-WB south side 2'-6 11/16"
north side 2'-6 3/16"

** Floorbeam 3 - Item 198-EB web 7/16"
Floorbeam 7 - Item 405-EB web 7/16"
Floorbeam 21- Item 390-WB web 7/16"



SECTION A-A



FLOORBEAM 3 (EB), 7 (EB) & 21 (WB) BOTTOM FLANGE STRENGTHENING DETAIL

(2025 NBIS Item 198-EB, 405-EB, and 390-WB)

Note:
Contact surfaces for all details on this sheet are to be cleaned and painted per the requirements of primary connections as per the special provision "Cleaning and Painting Contact Surface Area of Existing Steel Structures".

MODEL: Default

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FLOORBEAM REPAIR 1 STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB
		CHECKED - PJL	REVISED -		
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	PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -		SHEET 3 OF 7 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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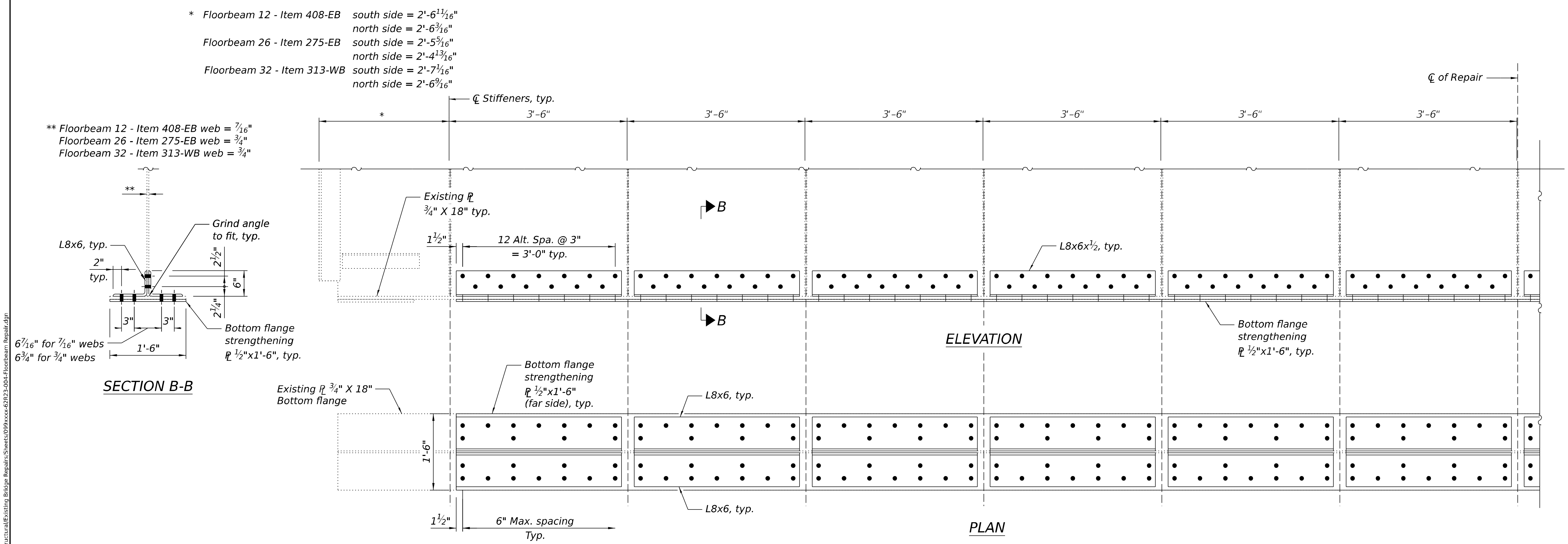
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



FLOORBEAM 12 (EB), 26 (EB) & 32 (WB) BOTTOM FLANGE STRENGTHENING DETAIL

(2025 NBIS Item 408-EB, 275-EB, and 313-WB)

Note:
Contact surfaces for all details on this sheet are to be cleaned and painted per the requirements of primary connections as per the special provision "Cleaning and Painting Contact Surface Area of Existing Steel Structures".

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WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
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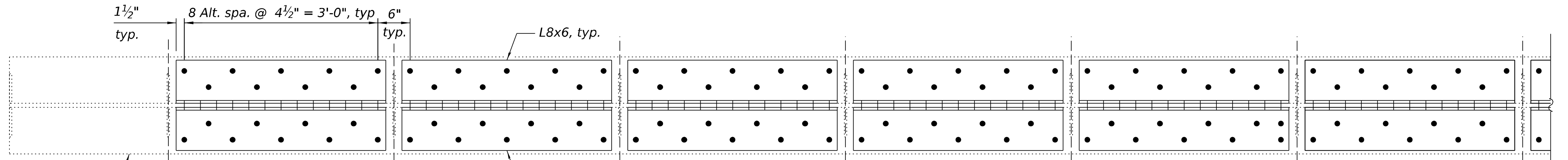
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

FLOORBEAM REPAIR 2
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 4 OF 7 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	945
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		

* Floorbeam 10 - Item 247-WB south side = 2'-5 5/16"
north side = 2'-4 13/16"



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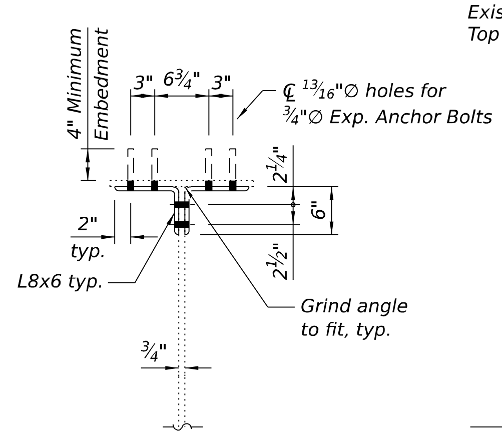

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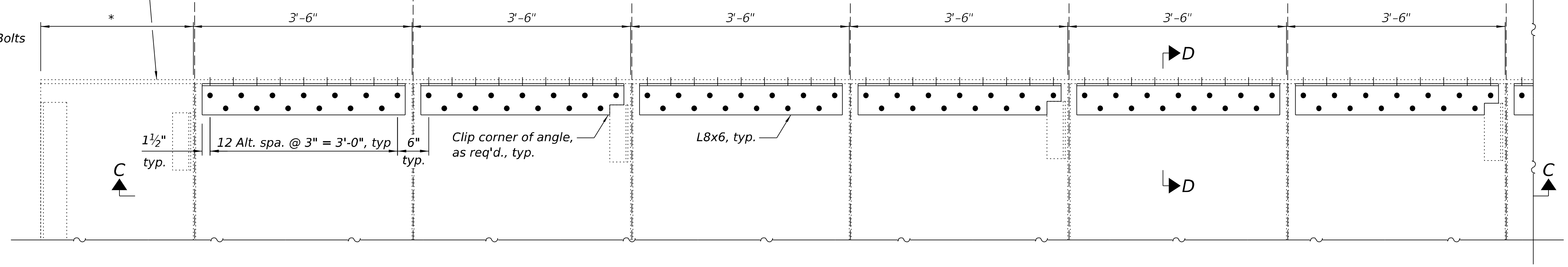


ELEVATION

(Looking at West Face of Floorbeam 10)

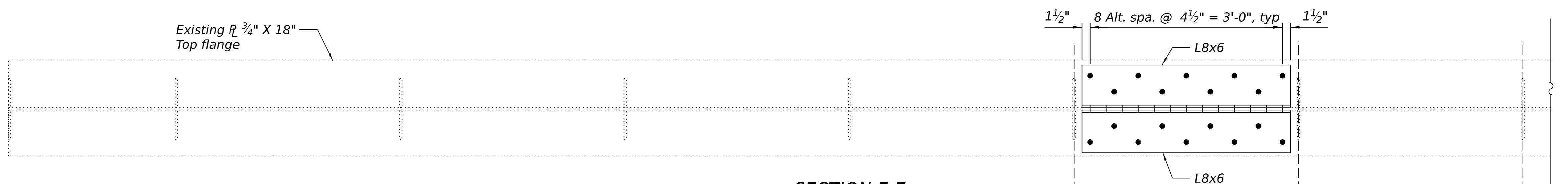
FLOORBEAM 10 (WB) TOP FLANGE STRENGTHENING DETAIL

(2025 NBIS Item 247-WB)

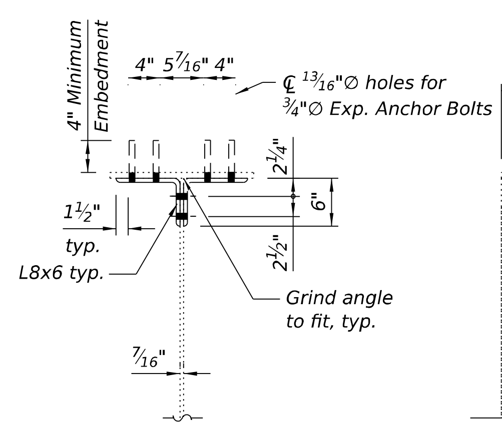
Notes:

Field drill 13/16"∅ holes 4" min. into existing concrete and install ¾"∅ Expansion Anchor Bolts with min. pull out capacity of 1.5 kips. Expansion Anchor Bolts shall be carbon steel. Cost included with Structural steel repair.

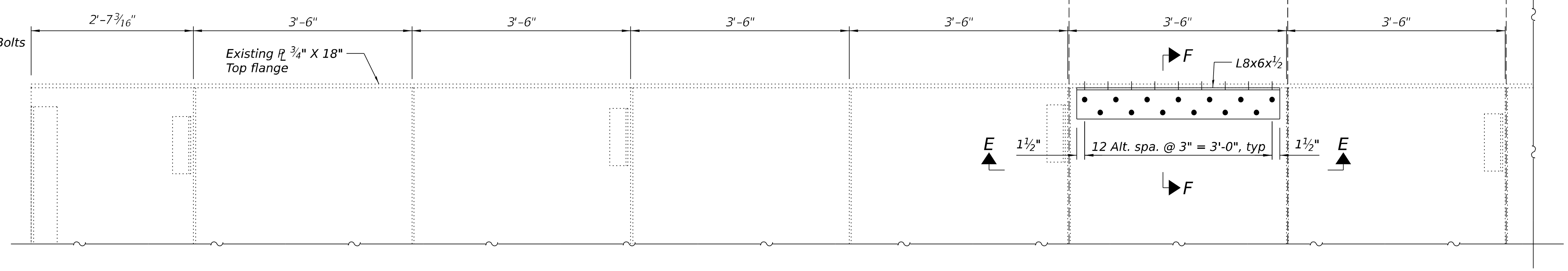
Contact surfaces for all details on this sheet are to be cleaned and painted per the requirements of primary connections as per the special provision "Cleaning and Painting Contact Surface Area of Existing Steel Structures".



SECTION E-E



SECTION F-F



ELEVATION

(Looking at West Face of Floorbeam 16)

FLOORBEAM 16 TOP FLANGE STRENGTHENING DETAIL

(2025 NBIS Item 17-WB)

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

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PLOT SCALE = 0:2 ':" / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

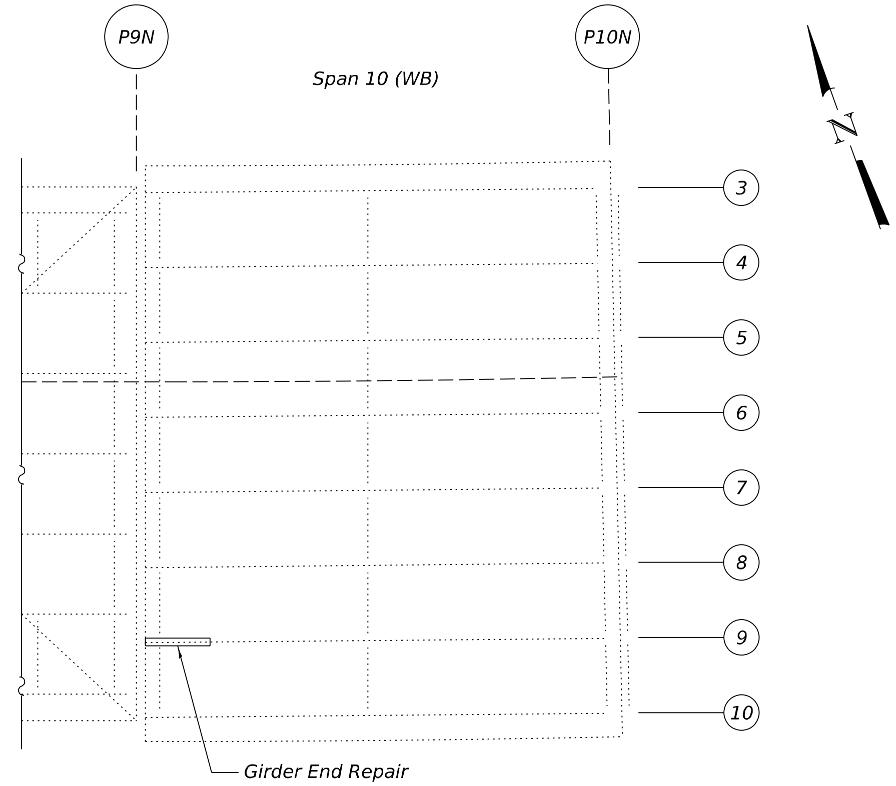
FLOORBEAM REPAIR 3
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 5 OF 7 SHEETS

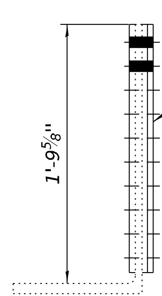
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	946

CONTRACT NO. 62R23

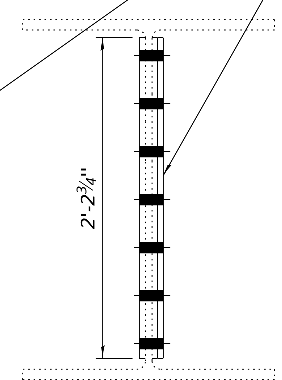
ILLINOIS | FED. AID PROJECT



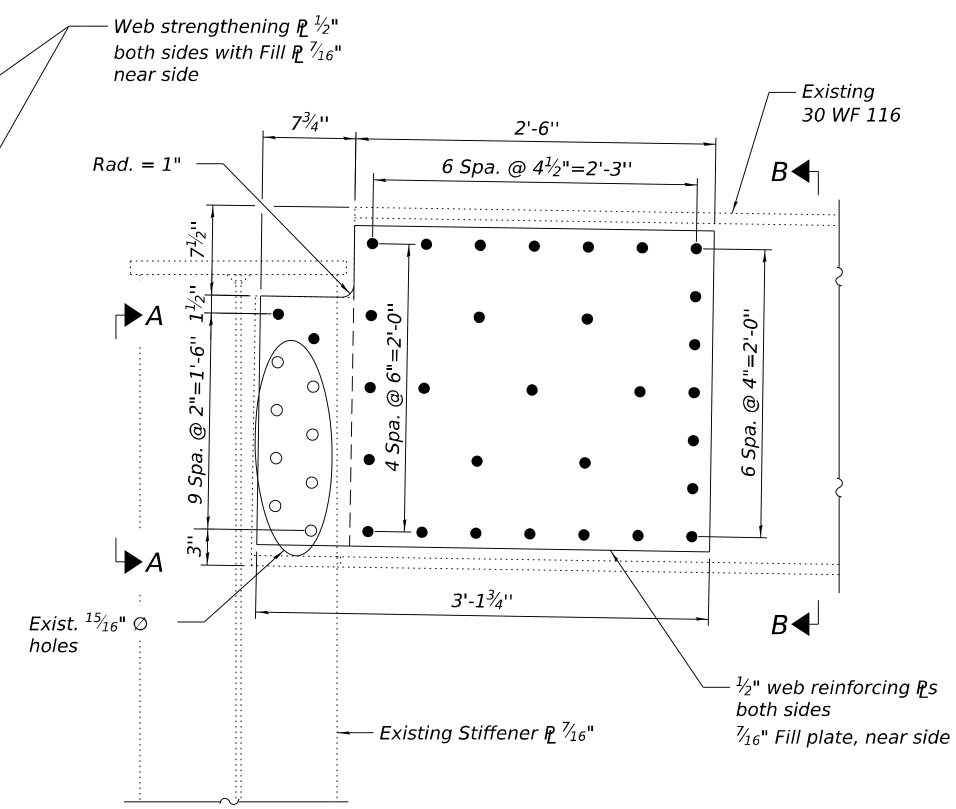
PLAN



SECTION A-A



SECTION B-B



GIRDER 9 END REPAIR DETAIL

(2025 NBIS Item 342)

(Looking North)

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WSP

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SUITE 4200
CHICAGO, IL 60602
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	CHECKED - PJL	REVISED -
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PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

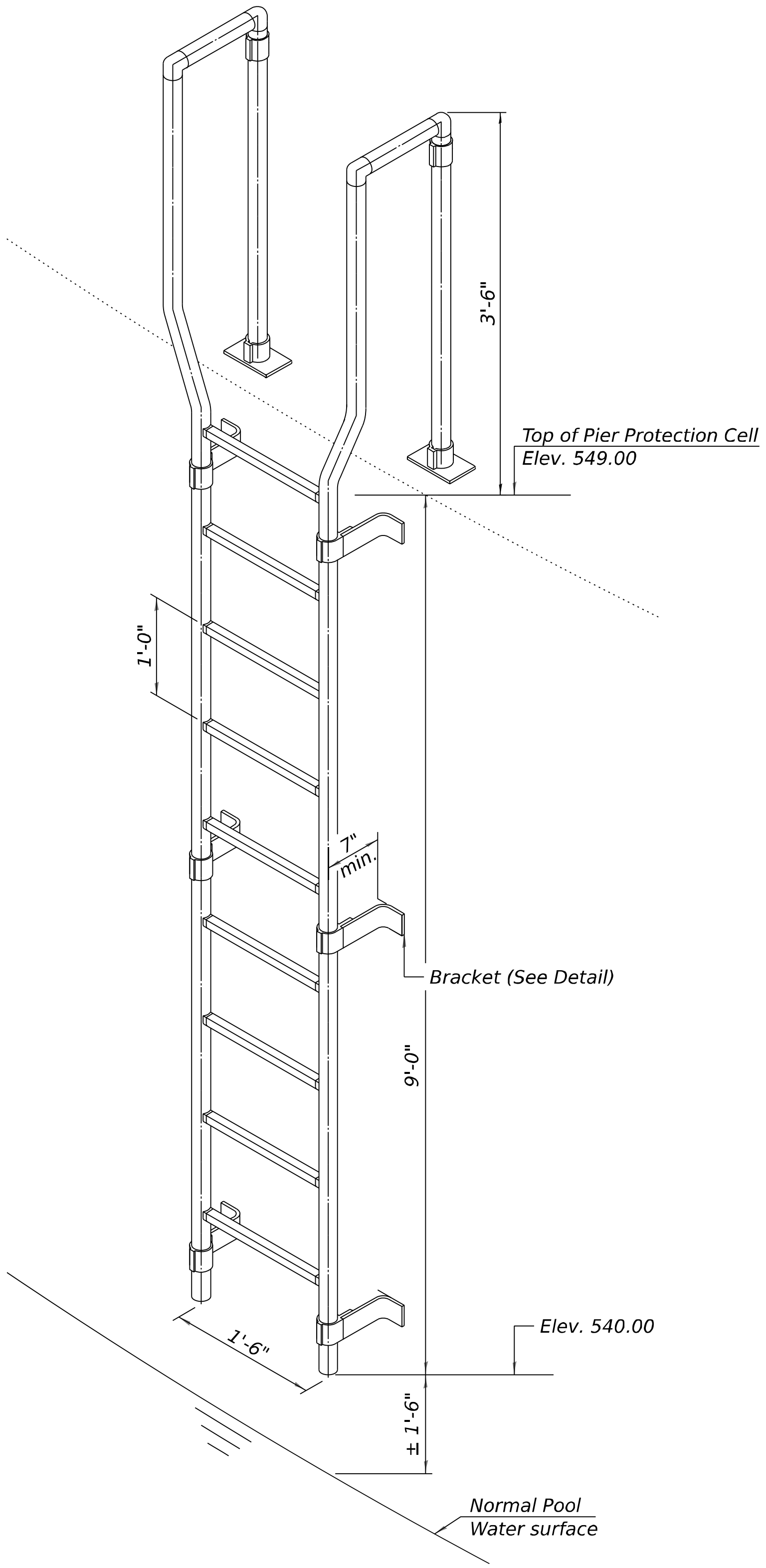
GIRDER 9 END REPAIR
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 6 OF 7 SHEETS

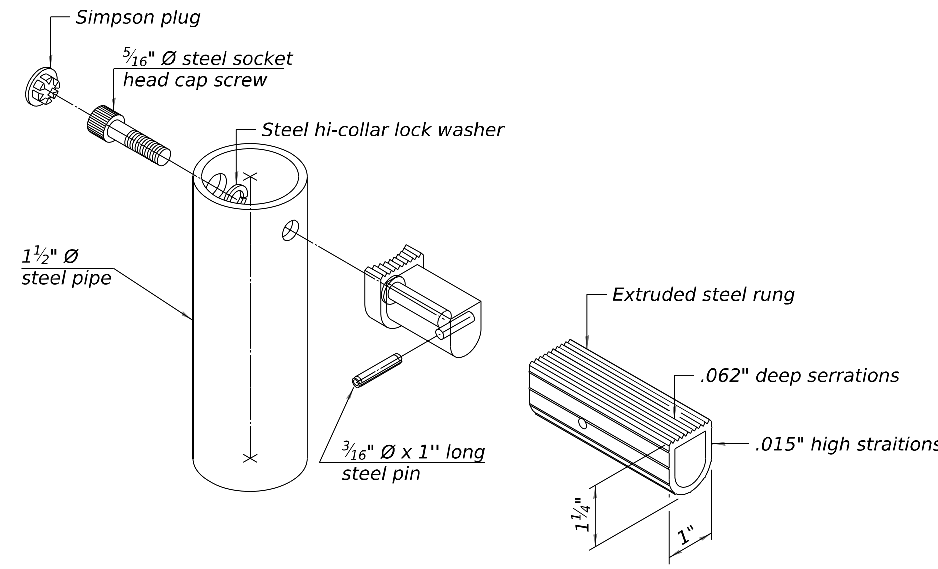
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	947

CONTRACT NO. 62R23

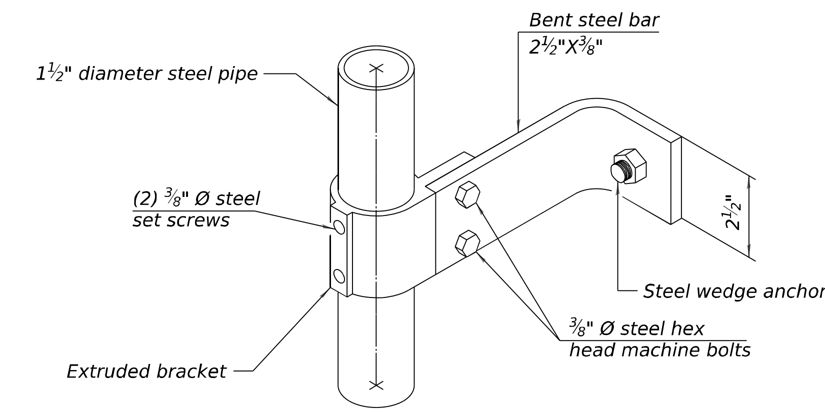
ILLINOIS | FED. AID PROJECT



TYPICAL LADDER ELEVATION



DETAIL OF LADDER RUNG



DETAIL OF LADDER BRACKET

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SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

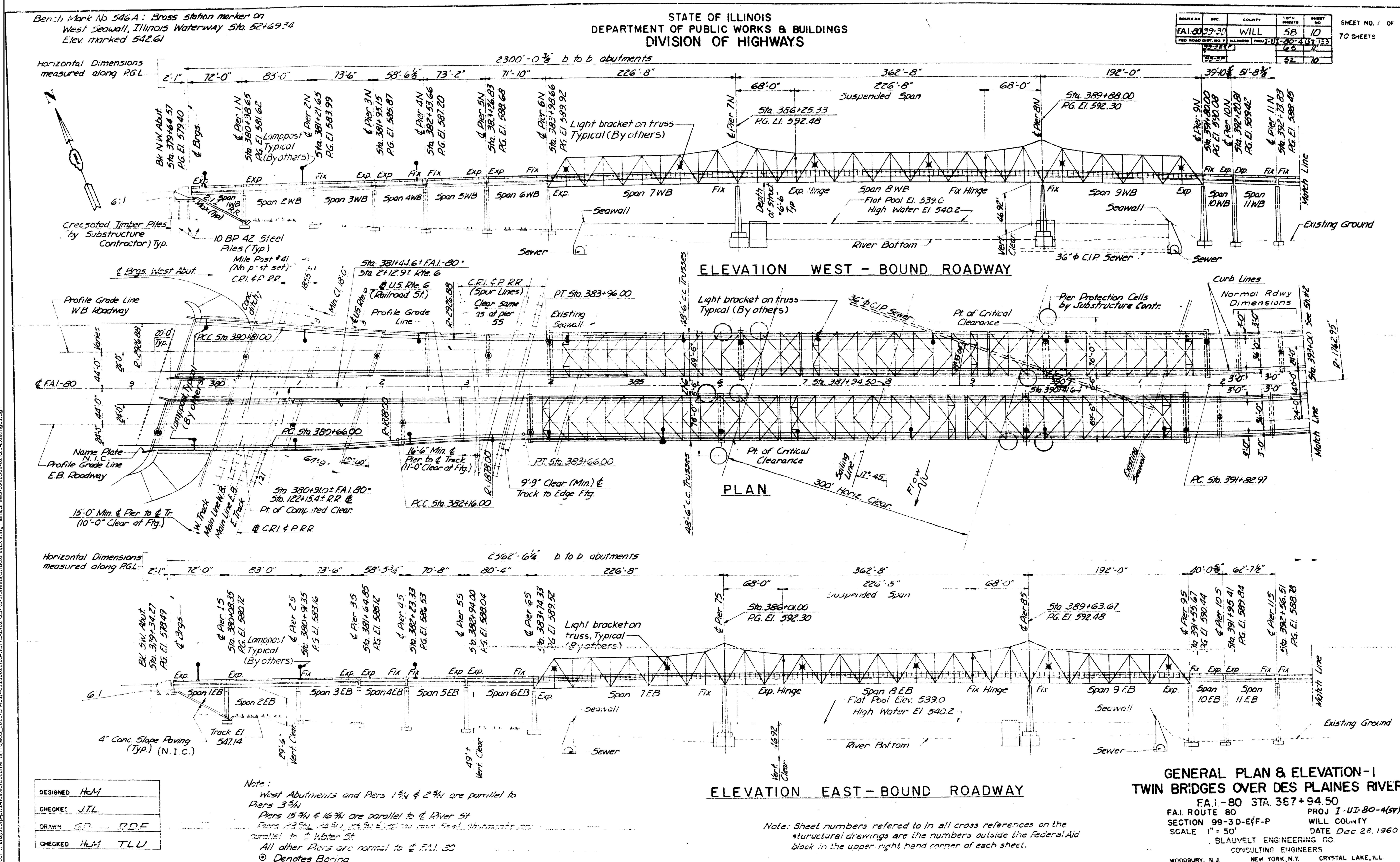
USER NAME = USSJ696614	DESIGNED - LAS	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = 0.17 ' / in.	DRAWN - GM	REVISED -	
PLOT DATE = 11/5/2025	CHECKED - PJL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ACCESS LADDER
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 7 OF 7 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	948
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		



FOR INFORMATION ONLY

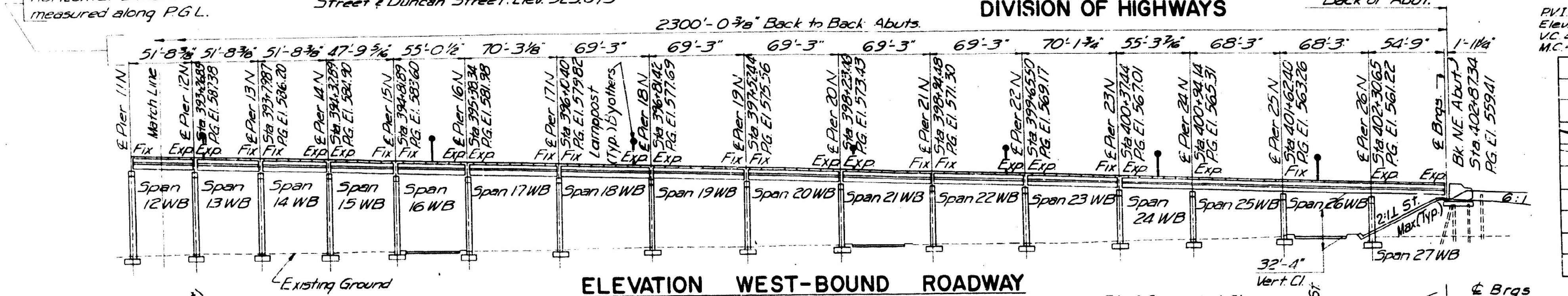
WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB
		CHECKED -	REVISED -		
	PLOT SCALE = 0:2 ' / in.	DRAWN -	REVISED -		
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -		SHEET 1 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	949
		CONTRACT NO. 62R23		
		ILLINOIS FED. AID PROJECT		

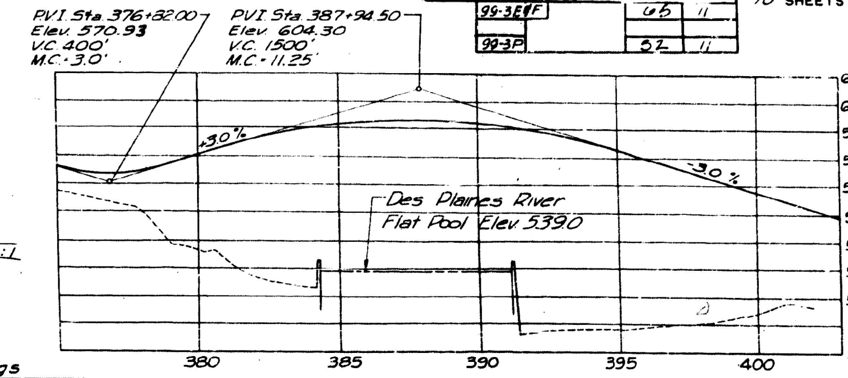
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	11
	99-3E&F		65	11
	99-3P		52	11

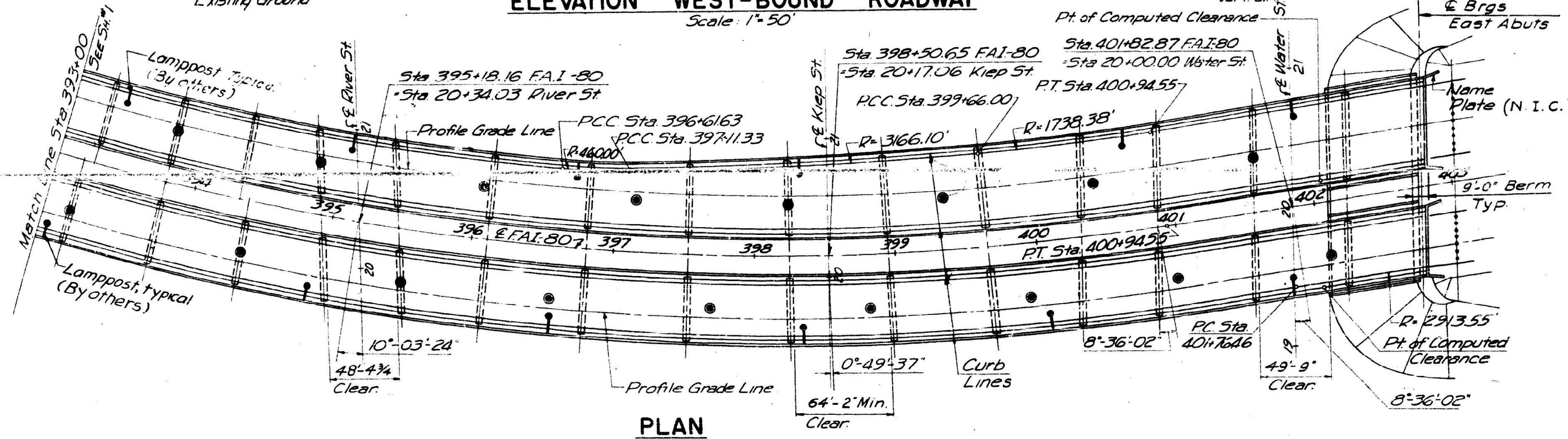
SHEET NO. 2 OF 70 SHEETS



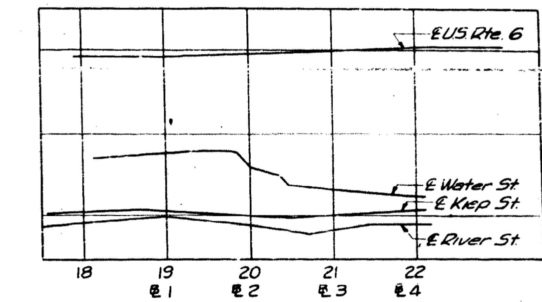
ELEVATION WEST-BOUND ROADWAY
Scale: 1"=50'



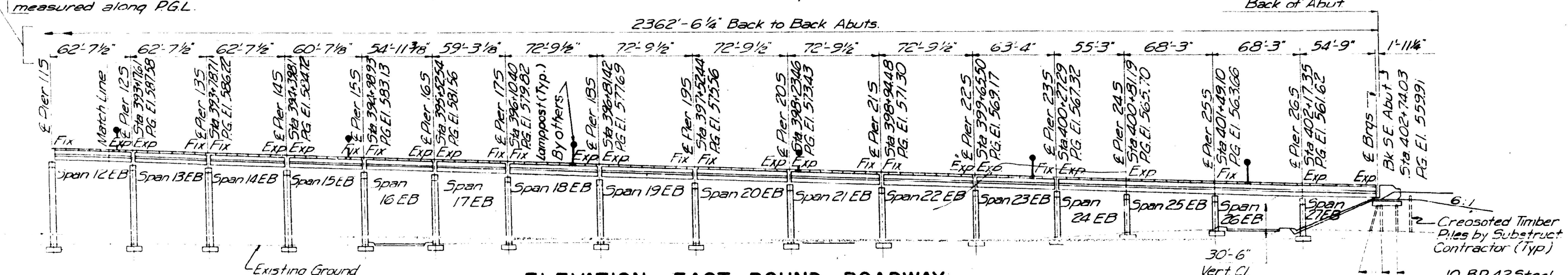
PROFILE GRADE F.A.I.-80
Scale: Horiz. 1"=300' - Vert. 1"=30'



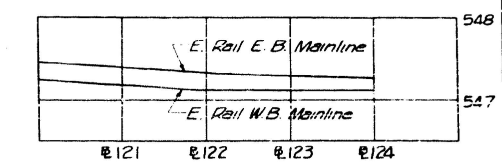
PLAN
Scale 1"=50'



EXISTING PROFILE GRADES
U.S. ROUTE 6, RIVER ST., KIEP ST., & WATER ST.
Scale: Horiz. 1"=100' - Vert. 1"=10'



ELEVATION EAST-BOUND ROADWAY
Scale: 1"=50'

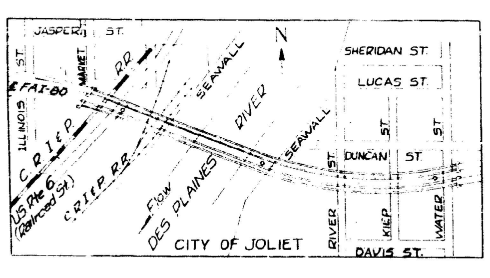


C.R.I.& P. R.R. MAINLINE PROFILE
Scale: Horiz. 1"=100' - Vert. 1"=1'

Design Stresses
Reinforced Concrete
$f'c$ = 3500 psi
fc = 1400 psi
fs = 20,000 psi
n = 10

Structural Steel	Carbon	Low-Alloy
Axial Tension	18,000	27,000
Axial Compression	15,000 - 1/4 $\frac{L^2}{r^2}$	22,000 - 0.56 $\frac{L^2}{r^2}$
AASHO - 1961	Art. 1.4.2	Art. 1.4.7

Design Loading
H20-S16-44 & Alternate



LOCATION PLAN
No Scale

DESIGNED	HcM
CHECKED	JTL
DRAWN	GP TLU
CHECKED	HcM KDF

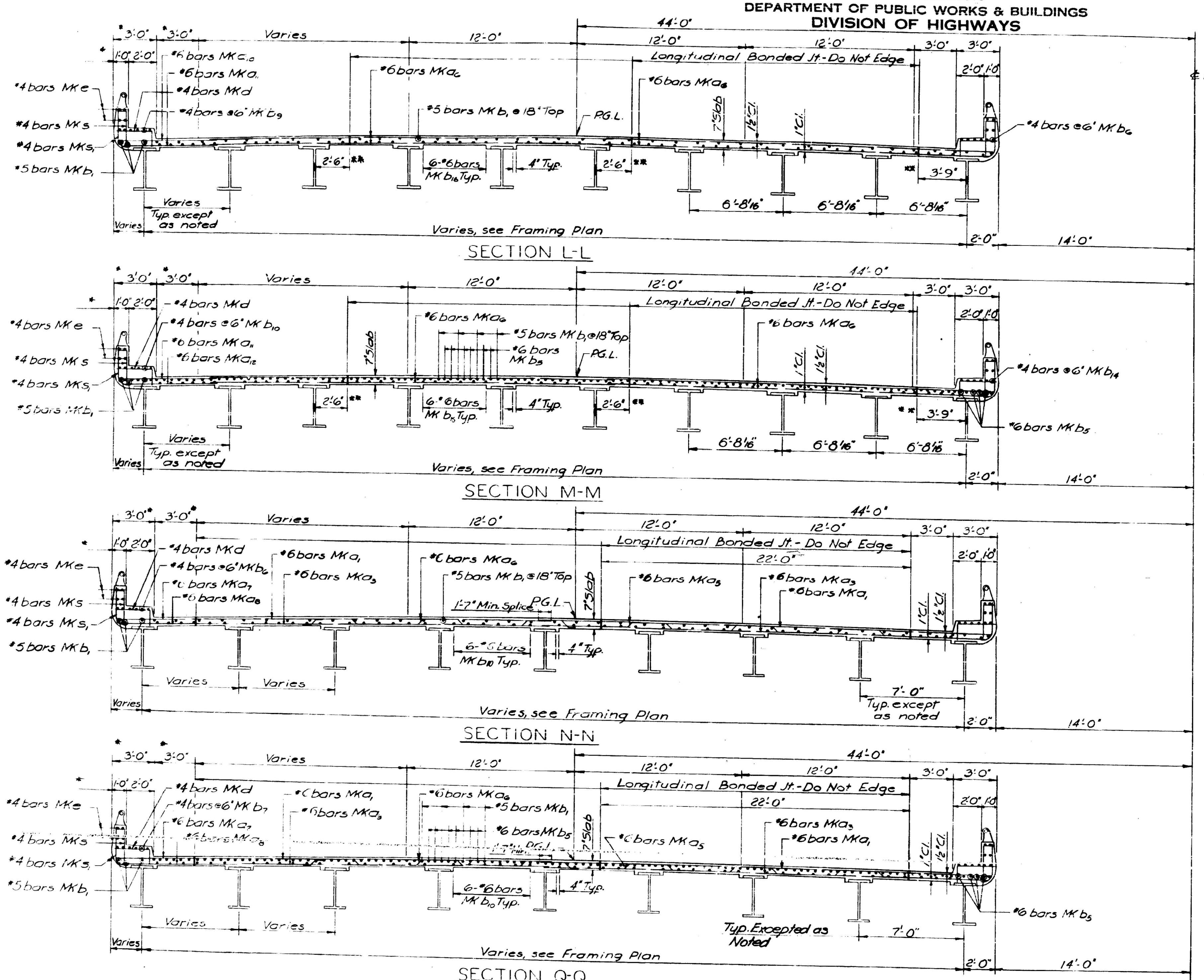
GENERAL PLAN & ELEVATION-2
TWIN BRIDGES OVER DES PLAINES RIVER
F.A.I.-80 STA. 387+94.50
F.A.I. ROUTE 80 PROJECT
SECTION 99-3D-E&F-P WILL COUNTY
SCALE As Noted DATE Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D / 99-3E&F	WILL	58 / 65	14 / 12
	99-3P		52	12

SHEET NO. 5
70 SHEETS



*Dimension normal to Curb line
**Dimension ℄ Stringer to Long. Bonded Jt. Measured Normal to ℄ Stringer

DESIGNED	
CHECKED	
DRAWN	M.M.
CHECKED	J.P.S.

NOTE:
For Curb & Drain details see sh. 14
For bars MK e, see sh. 28, 29 & 30
Dimensions are normal to ℄ F.A.I.-80 except as noted.
For Superelevation Data, see sh. 13
For parapet details at lampposts, see Sht. 50.

WEST APPROACH SPANS
CROSS-SECTIONS - I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

F.A.I. ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 1960

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

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ': " / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

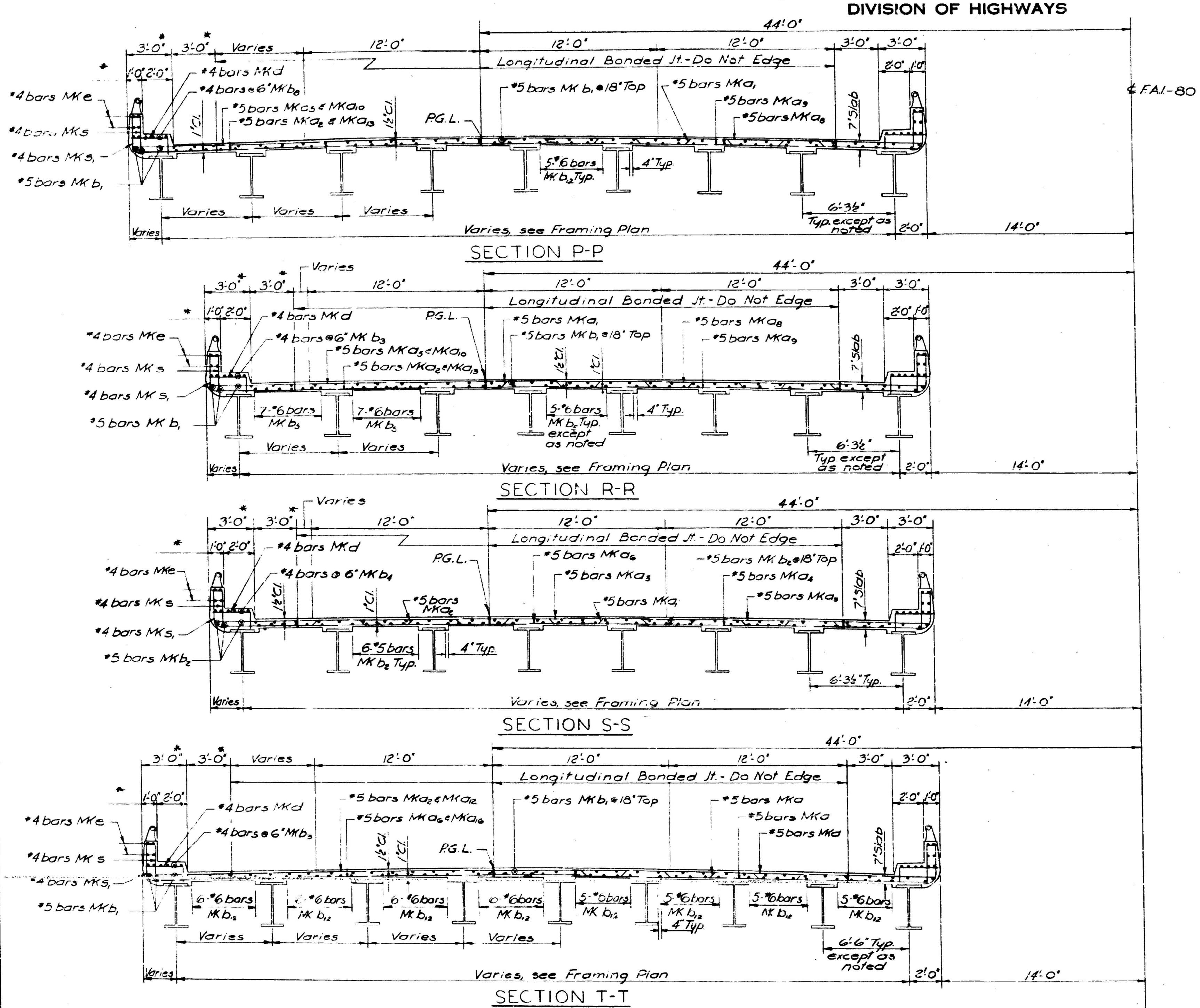
EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	951
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	F.A. TOP	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	38	15
	99-3E&F		65	13
	99-3P		52	13

SHEET NO. 6
70 SHEETS



* Dimension normal to Curbline

DESIGNED	L. D
CHECKED	J. P.S
DRAWN	M. M.
CHECKED	J. P.S

For Notes see sh.5
For parapet details at lampposts, see Sht 30.

WEST APPROACH SPANS
CROSS-SECTIONS-2
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 1960

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

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '/" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

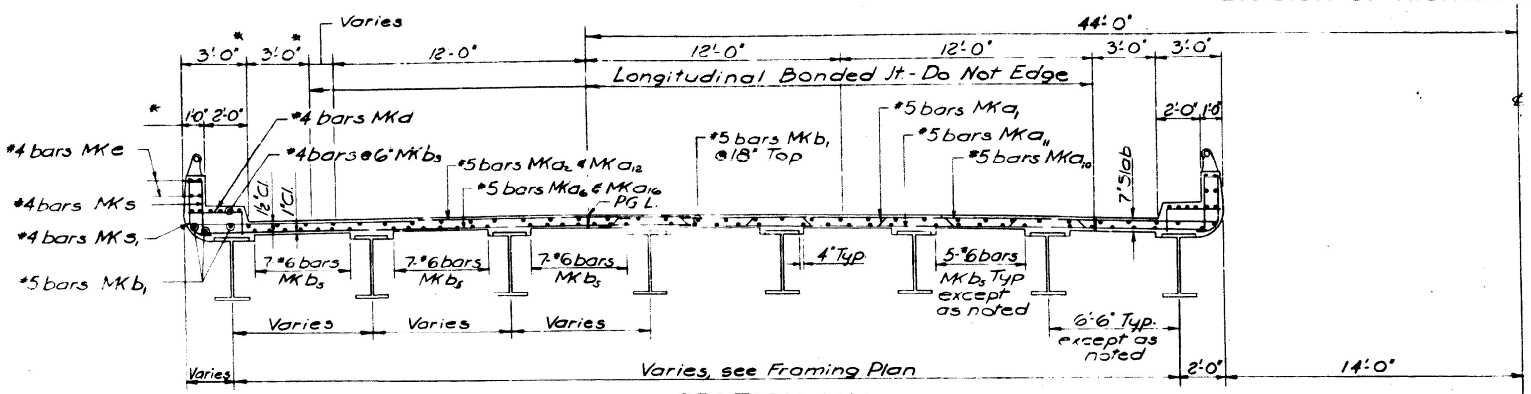
EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB
SHEET 4 OF 87 SHEETS

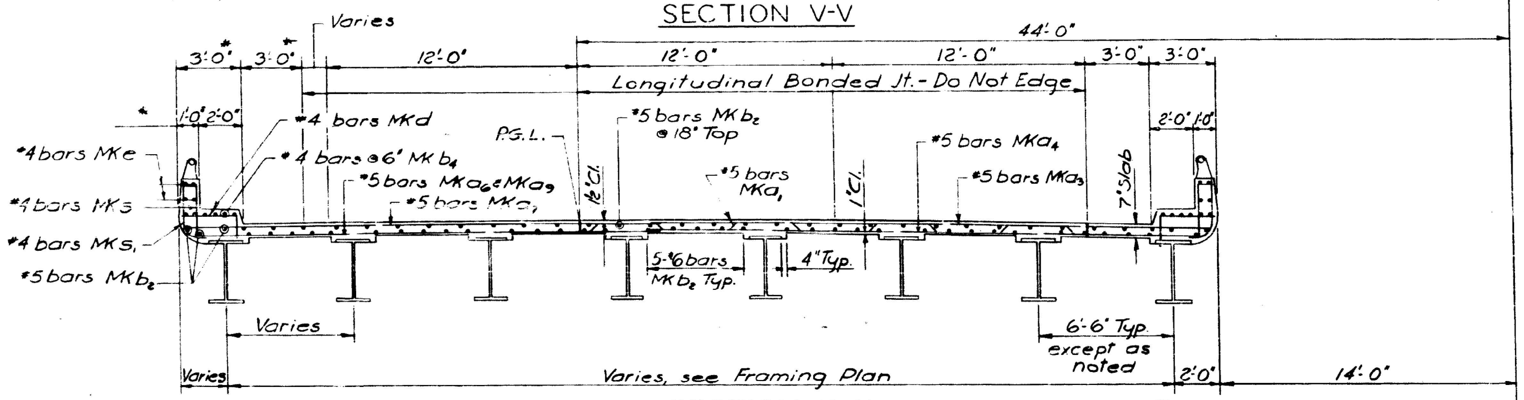
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	952
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D / 99-3E&F	WILL	58 / 65	16 / 14
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	
	99-3P		52	14

SHEET NO 7
40 SHEETS





* Dimension normal to Curbline.

BILL OF MATERIALS
WEST APPROACH SPANS

ITEM	UNIT	Section 99-3D		Section 99-3E&F	
		W.B. Rdwy	E.B. Rdwy	W.B. Rdwy	E.B. Rdwy
Class X Concrete	C.Y.	685	680		
Fur. & Erect. Struct. Steel (Carbon)	Lb.			778,300	777,500
Fur. & Erect. Struct. Steel (Low Alloy)	Lb.			4,700	4,700
Furnish. & Erect. Structural Steel	Lb.	1146	1146	783,000	782,200
Reinforcement Bars	Lb	186,760	158,200		
Aluminum Handrail	L.F	860	877		

Structural Steel Includes weight of Rockers, Bolsters, Bearing plates, Lead plates, Pintles and Anchor Bolts. Estimated Weight of these Items is as follows:
E.B. Roadway: 27,100 #
W.B. Roadway: 30,522 #

NUMBER OF STUD SHEAR-
CONNECTORS FOR COMPOSITE STRINGERS

SPAN	STUDS REQUIRED **	
NUMBER	W.B. ROADWAY	E.B. ROADWAY
4	1,810	1,764
5	1,871	1,902
6	1,840	1,936

** The quantity of studs shown in the table above is included in the weight of structural steel in the Bill of Materials

For Notes, see sh. 5
For parapet details at lampposts, see Sht 30.

WEST APPROACH SPANS
CROSS-SECTIONS-3
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

F.A.I. ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 1960

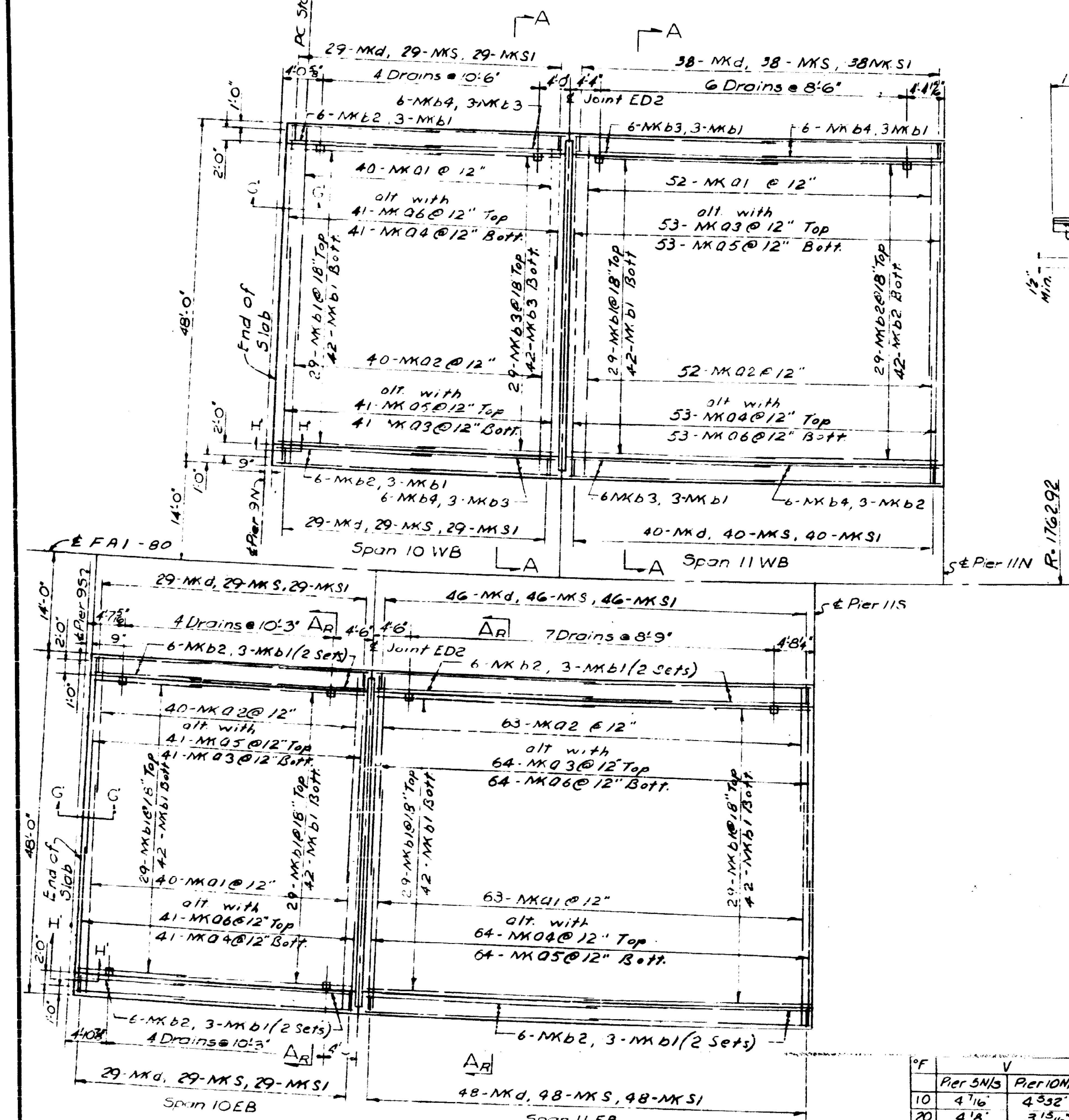
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

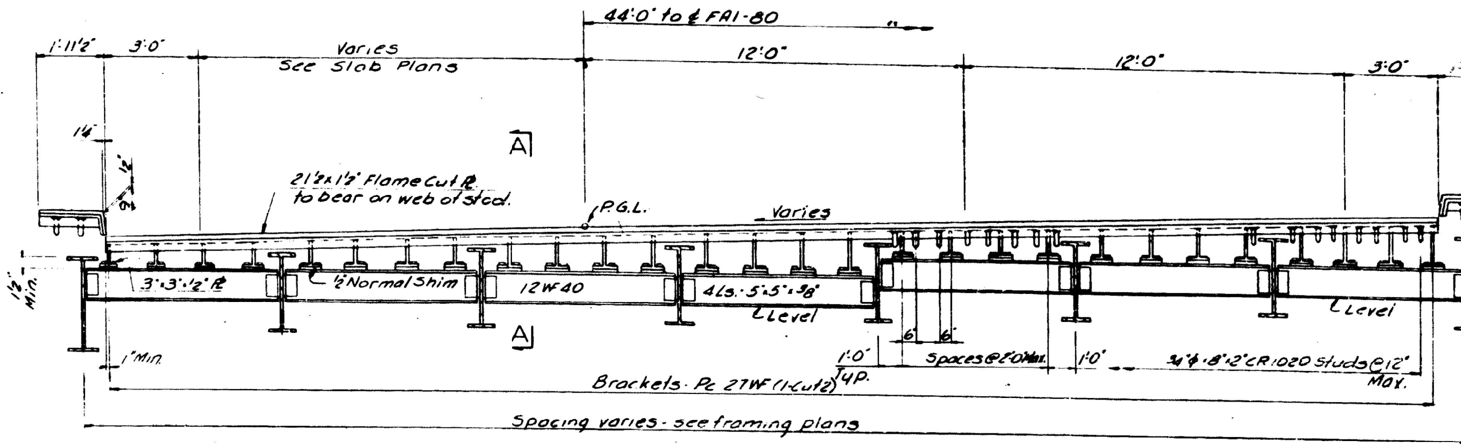
DESIGNED	L.D.
CHECKED	J.P.S.
DRAWN	M.M.
CHECKED	J.P.S.

FOR INFORMATION ONLY

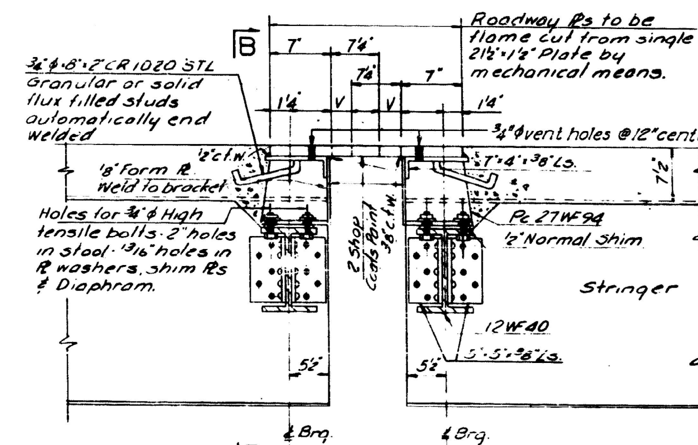
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	11
	99-3E&F		65	15
	99-3P		52	15

SHEET NO. 8
70 SHEETS

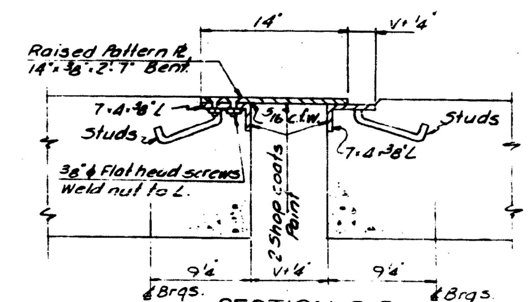




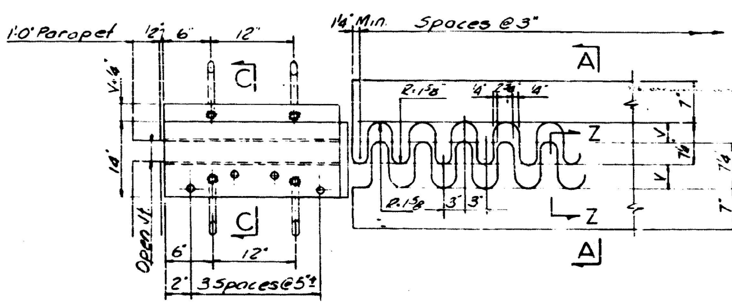
SECTION B-B



SECTION A-A



SECTION C-C



PLAN

°F	V	
	Pier 5N/S	Pier 10N/S
10	4 7/16"	4 5/32"
20	4 1/8"	3 15/16"
30	3 27/32"	3 23/32"
40	3 17/32"	3 15/32"
50	3 1/4	3 1/4"
60	2 31/32"	3 1/32"
70	2 21/32"	2 25/32"
80	2 3/8"	2 9/16"
90	2 1/16"	2 11/32"
100	1 25/32	2 3/32"

EXPANSION DAM ED 2
@ PIERS 5N/S & 10N/S

Slab Plan Notes:
For General Notes, see sh. 3
For Cross Sections, see sh. 13 & 15
For Bar Lists, see sh 44 & 46
For Sections G-G' & H-H' see sh. 51
For Bill of Materials, see sh. 15

Notes:
Low Alloy Steel (A441) to be used in Roadway ℞
Carbon Steel (A-7) to be used in Diaphrams & Shims.
All other steel - Carbon Steel (A373)
1/2" Normal Shims to be made up of 1/16", 1/8", 2 1/16" ℞s.
Contractor for Sec. 99-3E&F to provide 50% excess shims (1-1/8" + 2-1/16" ℞s.)
Curb expansion devices shall be furnished & erected by the Contractor for Sec. 99-3D. All other structural steel shall be furnished & erected by the Contractor for Sec. 99-3E&F.
For Stud Details and Section Z-Z, see sh 54
For location of lampposts, see Sh. 28, 29, & 50

DESIGNED	H. C. M
CHECKED	L. D.
DRAWN	L. D
CHECKED	H. C. M

EAST APPROACH SPANS
EXPANSION DAM ED-2 & SLAB PLANS-I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

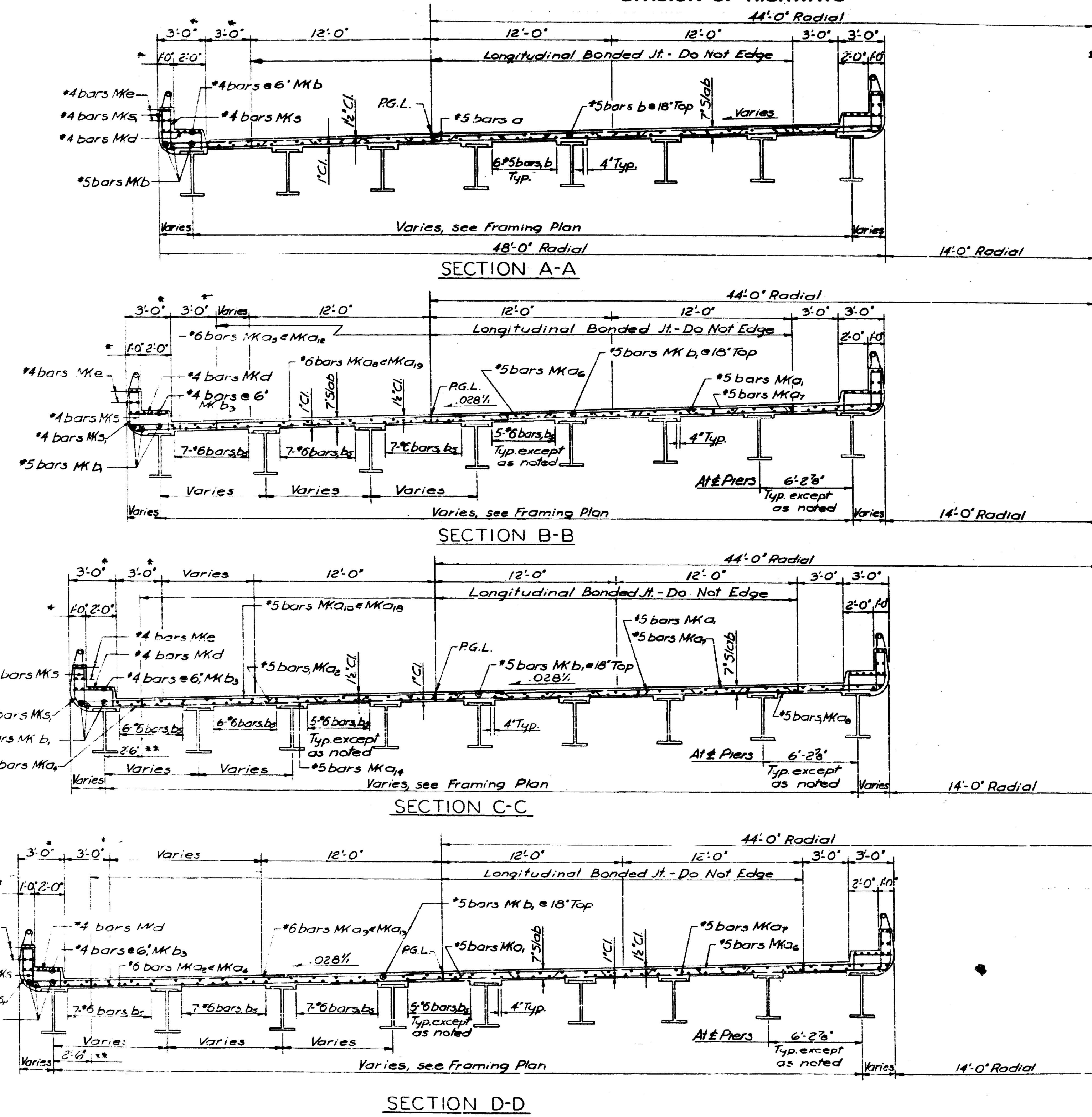
FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	22
	99-3E&F		65	16
	99-3P		52	16

SHEET NO. 13
70 SHEETS



SUPERELEVATION DATA

East Approach Spans

Normal Crown	Sta. 378 + 18.00	to	Sta. 391 + 26.95
Attained	Sta. 391 + 26.95	to	Sta. 392 + 38.99
Full S.E. = .028'/'	Sta. 392 + 38.99	to	Sta. 400 + 38.53
Attained	Sta. 400 + 38.53	to	Sta. 401 + 50.57
Normal Crown	Sta. 401 + 50.57	to	————

E.B. Roadway ℄ W.B. Roadway to be superelevated downward to the north

For Notes see sht 5
For parapet details at lampposts, see Sht 30

* Dimension normal to Curb line
** Dimension ℄ Stringer to Long. Bonded Joint measured normal to ℄ Stringer

DESIGNED	J.D.S.
CHECKED	L.D.
DRAWN	M.M.
CHECKED	H.C.M.

EAST APPROACH SPANS
CROSS-SECTIONS-I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

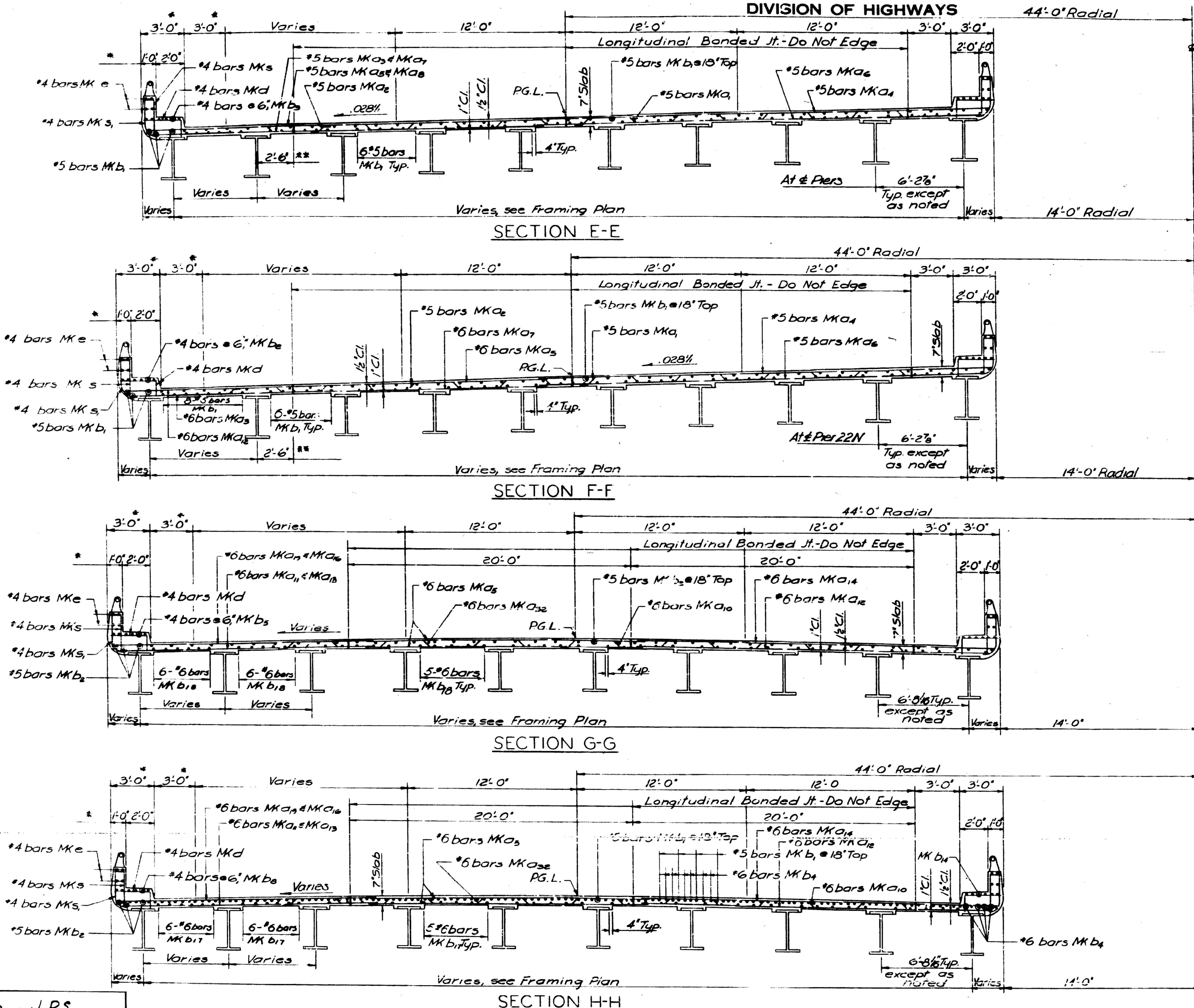
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

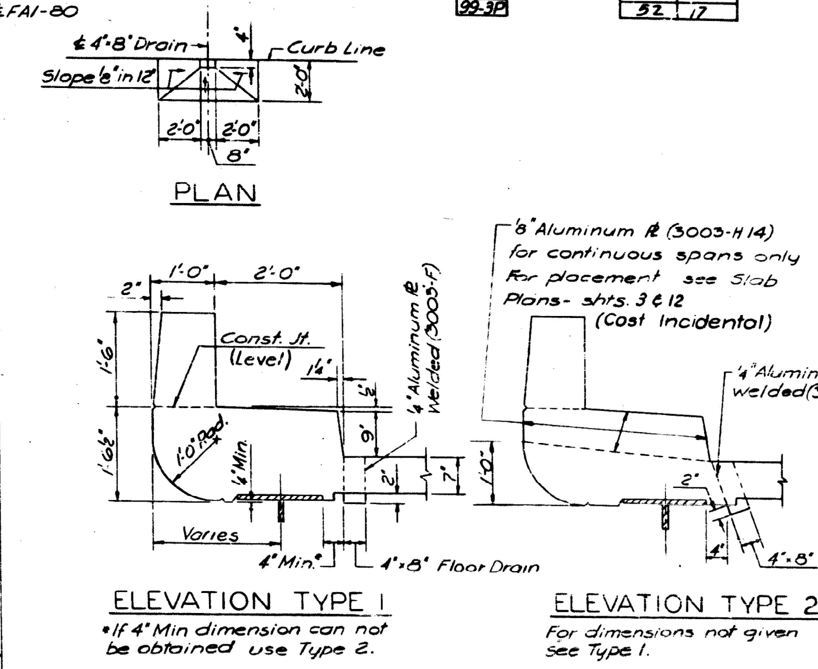
FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	23
	99-3E1F		65	17
	99-3P		52	17

SHEET NO. 14
70 SHEETS





CURB, PARAPET, & FLOOR DRAIN DETAILS

For Notes see sht 5
For parapet details at lampposts, see Sht 30

DESIGNED	J.P.S.
CHECKED	L.D.
DRAWN	M.M.
CHECKED	J.P.S.

* Dimension normal to Curb line
** Dimension ℄ Stringer to Long. Bonded Joint measured normal to ℄ Stringer

EAST APPROACH SPANS
CROSS-SECTIONS-2
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

F A I ROUTE 80 PROJECT
SECTION 99-3D-E&F-P WILL COUNTY
Scale: None Date: Dec. 28, 1960

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

174B-7014

FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 0:2 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB
SHEET 8 OF 87 SHEETS

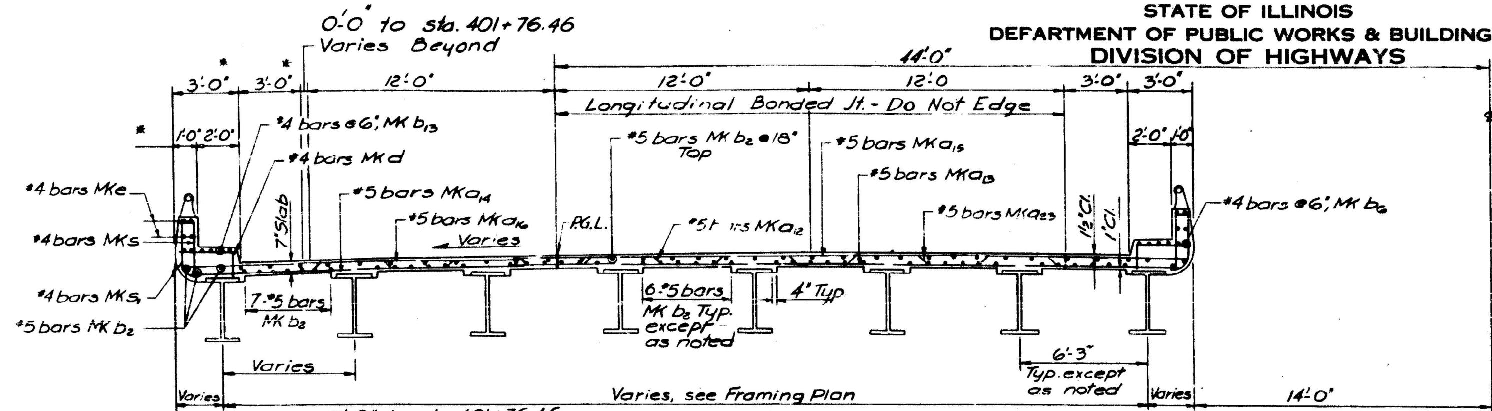
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	956

CONTRACT NO. 62R23
ILLINOIS FED. AID PROJECT

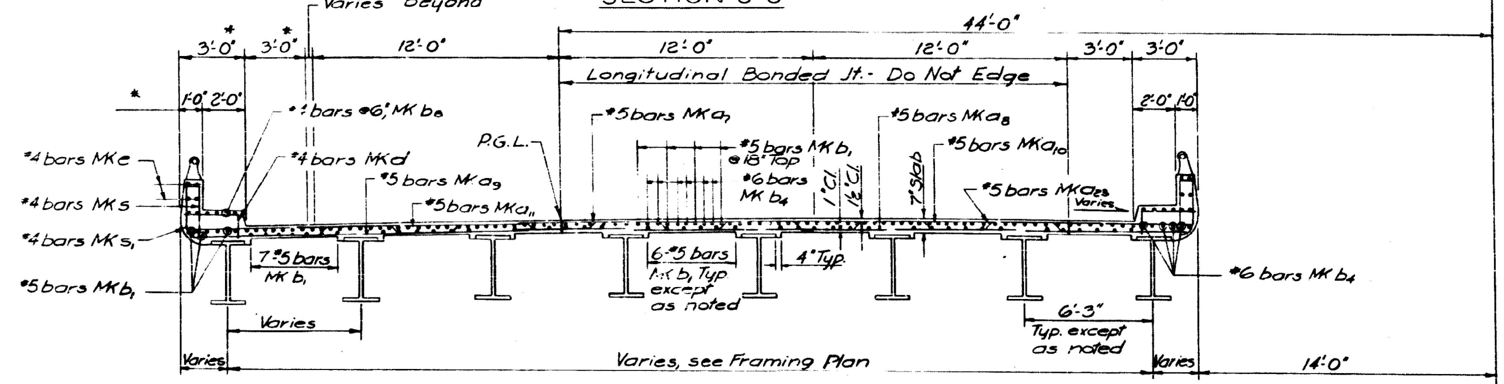
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D / 99-3E&F	WILL	58 / 65	24 / 18
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
	99-3P		52	18

SHEET NO. 15
70 SHEETS

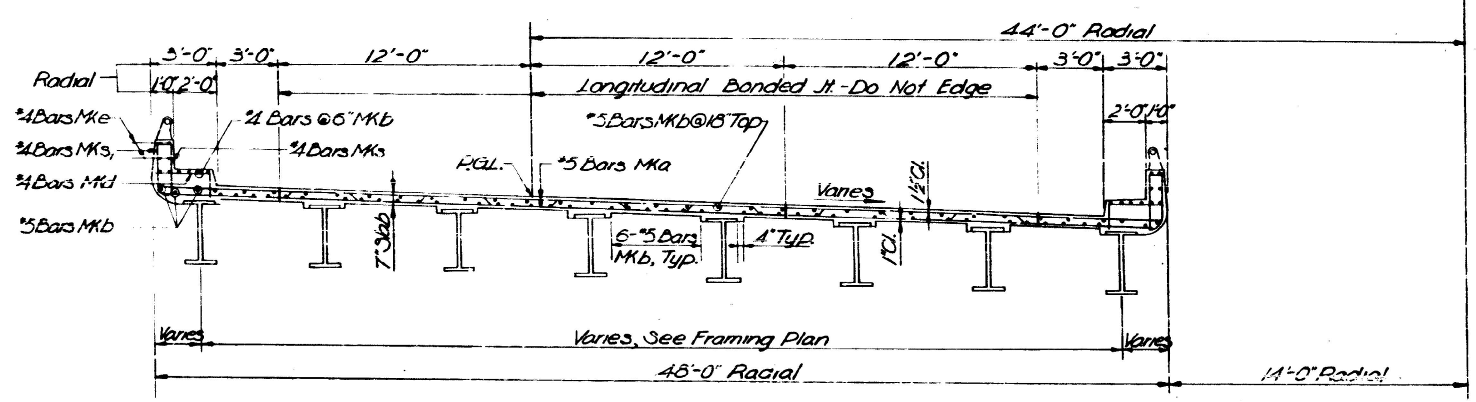


SECTION J-J



SECTION K-K

* Dimension normal to Curb line



SECTION AR - AR

BILL OF MATERIALS
EAST APPROACH SPANS

ITEM	UNIT	Section 99-3D		Section 99-3E&F	
		W.B. Rdwy	E.B. Rdwy	W.B. Rdwy	E.B. Rdwy
Class X Concrete	C.Y.	1,669	1,561		
Fur.& Erect. Struct. Steel (Carbon)	Lb.			1,734,400	1,615,200
Fur.& Erect. Struct. Steel (Low Alloy)	Lb.			4,600	4,600
Furnishing & Erecting Structural Steel.	Lb.	1146	1146	1,739,000	1,619,800
Reinforcement Bars	Lb.	358,520	303,360		
Aluminum Handrail	L.F.	2,171	2,274		

Structural Steel includes weight of Rockers, Bolsters, Bearing Plates, Lead Plates, Pintles and Anchor Bolts. Estimated weight of these Items is as follows:

E.B Roadway 80,300#
W.B Roadway 83,500#

NUMBER OF STUD
SHEAR CONNECTORS
FOR COMPOSITE STRINGERS

SPAN NUMBER	STUDS REQUIRED**		SPAN NUMBER	STUDS REQUIRED**	
	E.B ROADWAY	W.B. ROADWAY		E.B ROADWAY	W.B. ROADWAY
10	None	None	17	1,584	1,744
11	1,584	1,464	18	1,852	1,740
12	1,584	1,464	19	1,852	1,854
13	1,584	1,464	20	1,852	1,940
14	1,584	1,464	21	1,852	2,019
15	1,623	1,426	22	1,852	2,172
16	1,572	1,572	23	1,648	2,000

** The Quantity of studs shown in the table above is included in the weight of structural steel in the Bill of Materials.

For Notes, see sh 5
For parapet details at lampposts, see Sht 30.

EAST APPROACH SPANS
CROSS-SECTIONS-3
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

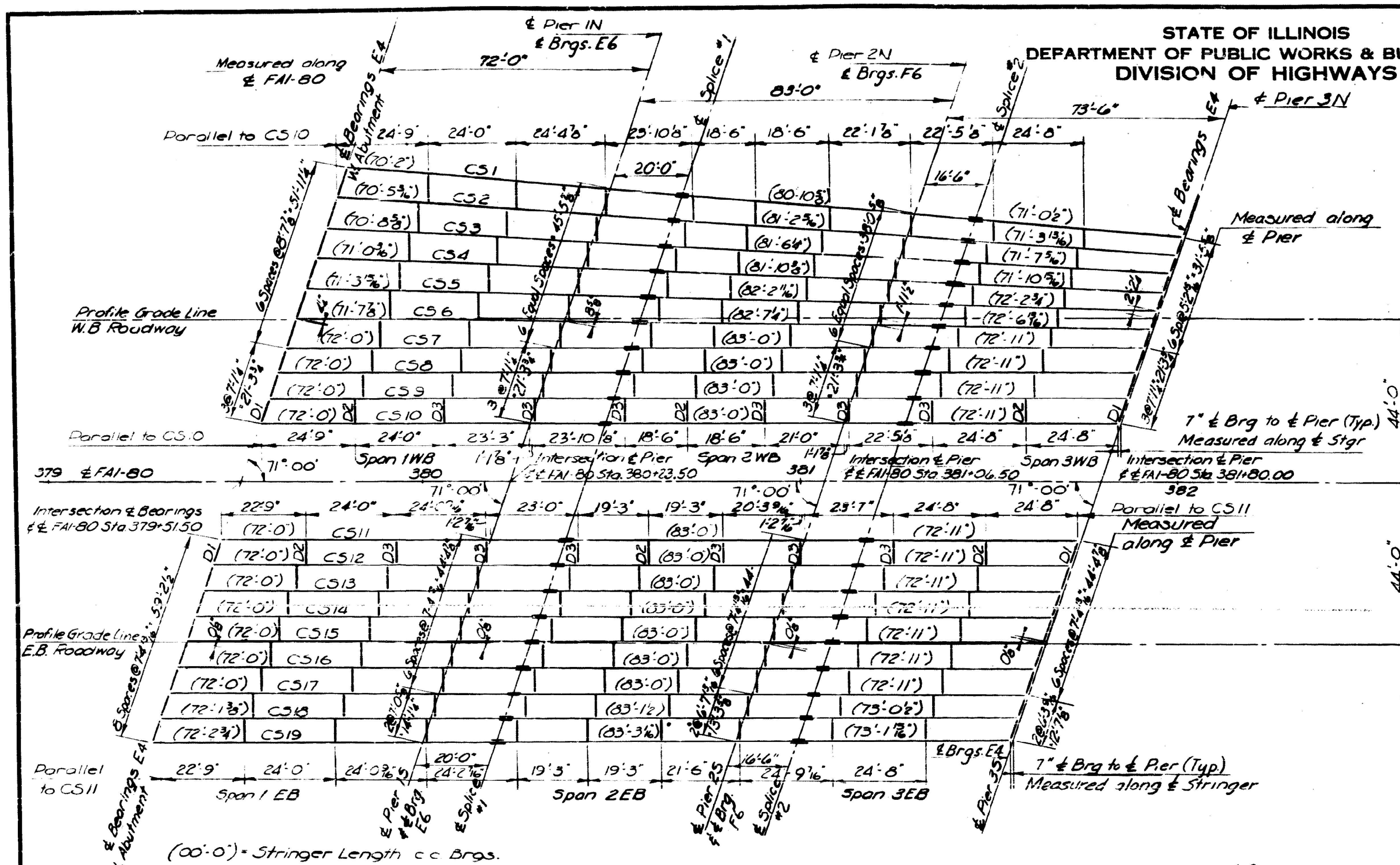
DESIGNED	J.P.S
CHECKED	L.D.
DRAWN	M.M.
CHECKED	J.P.S

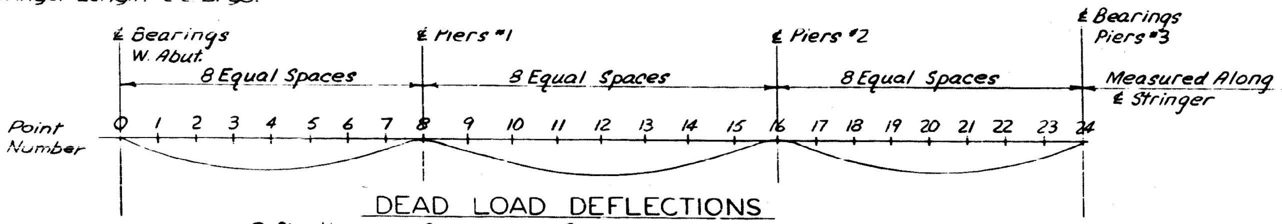
FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	25
	99-3E&F		63	19
	99-3P		52	19

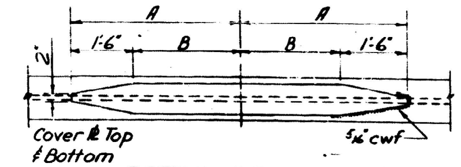
SHEET NO. 16
78 SHEETS





DEAD LOAD DEFLECTIONS

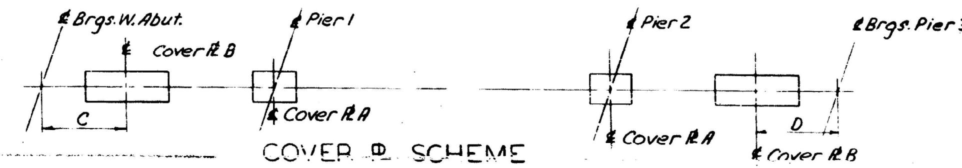
Deflections are for weight of concrete slab only



DETAIL OF COVER PL

TABLE OF COVER PLATES

Stringer No.	Beam Size	Cover PL A Size	Cover PL A A	Cover PL A B	Cover PL A Length	Cover PL B Size	Cover PL B A	Cover PL B B	Cover PL B Length	C	D
CS1	36 WF150	10"x15/16"	12'-6"	11'-0"	25'-0"	10"x7/16"	16'-6"	15'-0"	33'-0"	29'-0"	29'-6"
CS2 Thru CS9 Incl.	36 WF150	10"x15/16	12'-6"	11'-0"	25'-0"	10"x7/16"	16'-6"	15'-0"	33'-0"	29'-0"	29'-6"
CS10	36 WF150	10"x15/16"	12'-6"	11'-0"	25'-0"	10"x7/16"	16'-6"	15'-0"	33'-0"	29'-0"	29'-6"
CS11 & CS19	36 WF150	10"x15/16"	12'-6"	11'-0"	25'-0"	10"x7/16"	16'-6"	15'-0"	33'-0"	29'-0"	29'-6"
CS12 Thru CS18 Incl.	36 WF150	10"x15/16"	12'-6"	11'-0"	25'-0"	10"x7/16"	16'-6"	15'-0"	33'-0"	29'-0"	29'-6"



COVER PL SCHEME

TOP OF BEAM ELEVATIONS / D.L. DEFLECTIONS

Stgr. No.	℄ Bearing W. Abut.	℄ Bearing Pier 1	℄ Bearing Pier 2	℄ Bearing Pier 3	℄ Splice #1	℄ Splice #2	Span 1 Pt. 2	Span 1 Pt. 4	Span 1 Pt. 6	Span 2 Pt. 10	Span 2 Pt. 12	Span 2 Pt. 14	Span 3 Pt. 18	Span 3 Pt. 20	Span 3 Pt. 22
CS1	578.53	580.75	583.16	585.07	581.36	583.62	11/16"	7/8"	1/2"	9/16"	15/16"	9/16"	1/2"	7/8"	11/16"
CS2	578.61	580.83	583.23	585.13	581.43	583.69	5/8"	3/4"	7/16"	1/2"	13/16"	1/2"	7/16"	3/4"	5/8"
CS3	578.70	580.90	583.30	585.19	581.51	583.76									
CS4	578.78	580.98	583.37	585.24	581.58	583.82									
CS5	578.86	581.03	583.39	585.23	581.62	583.83									
CS6	578.84	580.99	583.35	585.19	581.58	583.79									
CS7	578.70	580.86	583.24	585.10	581.46	583.68	5/8"	3/4"	7/16"	1/2"	13/16"	1/2"	7/16"	3/4"	5/8"
CS8	578.51	580.67	583.05	584.92	581.27	583.50	9/16"	3/4"	7/16"	7/16"	3/4"	7/16"	7/16"	3/4"	9/16"
CS9	578.30	580.46	582.85	584.72	581.06	583.30	9/16"	3/4"	7/16"	7/16"	3/4"	7/16"	7/16"	3/4"	9/16"
CS10	578.09	580.25	582.65	584.53	580.85	583.10	11/16"	7/8"	1/2"	9/16"	15/16"	9/16"	1/2"	7/8"	11/16"
CS11	577.76	579.92	582.34	584.26	580.52	582.80	11/16"	7/8"	1/2"	9/16"	15/16"	9/16"	1/2"	7/8"	11/16"
CS12	577.83	579.99	582.42	584.34	580.59	582.88	5/8"	3/4"	7/16"	1/2"	13/16"	1/2"	7/16"	3/4"	5/8"
CS13	577.90	580.06	582.50	584.43	580.67	582.96									
CS14	577.96	580.12	582.56	584.49	580.72	583.02									
CS15	577.93	580.09	582.53	584.47	580.69	583.00									
CS16	577.81	579.97	582.42	584.37	580.57	582.89									
CS17	577.61	579.78	582.23	584.19	580.38	582.70	5/8"	3/4"	7/16"	1/2"	13/16"	1/2"	7/16"	3/4"	5/8"
CS18	577.40	579.57	582.04	584.01	580.17	582.51	9/16"	3/4"	7/16"	7/16"	3/4"	7/16"	7/16"	3/4"	9/16"
CS19	577.18	579.36	581.84	583.83	579.97	582.32	11/16"	7/8"	1/2"	9/16"	15/16"	9/16"	1/2"	7/8"	11/16"

Note: All deflections are down.

TOP OF SLAB ELEVATIONS

Stgr. No.	0	1	2	3	4	5	6	7	8	9	10	11	12
CS1	579.16	579.43	579.71	579.99	580.27	580.55	580.82	581.10	581.38	581.70	582.01	582.32	582.62
CS2	579.24	579.52	579.80	580.07	580.35	580.63	580.90	581.18	581.46	581.77	582.08	582.39	582.69
CS3	579.33	579.60	579.88	580.15	580.43	580.70	580.98	581.26	581.53	581.85	582.16	582.46	582.77
CS4	579.41	579.69	579.96	580.24	580.51	580.78	581.06	581.33	581.61	581.92	582.23	582.54	582.84
CS5	579.49	579.76	580.03	580.30	580.57	580.84	581.11	581.39	581.66	581.97	582.27	582.57	582.87
CS6	579.47	579.74	580.01	580.27	580.54	580.81	581.08	581.35	581.62	581.93	582.23	582.53	582.83
CS7	579.33	579.60	579.87	580.14	580.41	580.68	580.95	581.22	581.49	581.80	582.11	582.41	582.71
CS8	579.14	579.41	579.68	579.95	580.22	580.49	580.76	581.03	581.30	581.61	581.92	582.22	582.52
CS9	578.93	579.20	579.47	579.74	580.01	580.28	580.55	580.82	581.09	581.40	581.71	582.01	582.32
CS10	578.72	578.99	579.26	579.53	579.80	580.07	580.34	580.61	580.88	581.19	581.50	581.81	582.11
CS11	578.39	578.66	578.93	579.20	579.47	579.74	580.01	580.28	580.55	580.86	581.17	581.48	581.79
CS12	578.46	578.73	579.00	579.27	579.54	579.81	580.08	580.35	580.62	580.93	581.24	581.55	581.86
CS13	578.53	578.80	579.07	579.34	579.61	579.88	580.15	580.42	580.69	581.00	581.32	581.63	581.94
CS14	578.59	578.86	579.13	579.40	579.67	579.94	580.21	580.48	580.75	581.06	581.37	581.68	581.99
CS15	578.56	578.83	579.10	579.37	579.64	579.91	580.18	580.45	580.72	581.03	581.34	581.65	581.96
CS16	578.44	578.71	578.98	579.25	579.52	579.79	580.06	580.33	580.60	580.91	581.22	581.54	581.85
CS17	578.24	578.52	578.79	579.06	579.33	579.60	579.87	580.14	580.41	580.72	581.03	581.34	581.65
CS18	578.03	578.30	578.57	578.84	579.11	579.38	579.65	579.93	580.20	580.51	580.82	581.17	581.45
CS19	577.81	578.08	578.35	578.63	578.90	579.17	579.44	579.72	579.99	580.30	580.62	580.93	581.25

Stgr. No.	13	14	15	16	17	18	19	20	21	22	23	24
CS1	582.92	583.21	583.51	583.79	584.04	584.29	584.53	584.77	585.01	585.24	585.47	585.70
CS2	582.99	583.27	583.58	583.86	584.11	584.36	584.60	584.84	585.07	585.30	585.53	585.76
CS3	583.06	583.36	583.65	583.93	584.18	584.43	584.67	584.90	585.14	585.37	585.60	585.82
CS4	583.14	583.43	583.72	584.00	584.25	584.49	584.73	584.96	585.19	585.42	585.64	585.87
CS5	583.17	583.46	583.74	584.02	584.26	584.50	584.74	584.97	585.20	585.42	585.64	585.86
CS6	583.12	583.41	583.70	583.98	584.22	584.46	584.69	584.92	585.15	585.38	585.60	585.82
CS7	583.01	583.30	583.59	583.87	584.11	584.35	584.59	584.83	585.06	585.29	585.51	585.73
CS8	582.82	583.11	583.40	583.68	583.93	584.17	584.41	584.64	584.87	585.10	585.33	585.55
CS9	582.61	582.91	583.20	583.48	583.73	583.97	584.21	584.44	584.68	584.91	585.13	585.35
CS10	582.41	582.70	582.99	583.28	583.52	583.77	584.01	584.24	584.48	584.71	584.94	585.16
CS11	582.09	582.39	582.68	582.97	583.22	583.47	583.72	583.96	584.19	584.43	584.66	584.89
CS12	582.17	582.47	582.76	583.05	583.30	583.55	583.80	584.04	584.28	584.51	584.74	584.97
CS13	582.24	582.54	582.84	583.13	583.38	583.63	583.88	584.12	584.36	584.60	584.83	585.06
CS14	582.30	582.60	582.89	583.19	583.44	583.69	583.94	584.18	584.42	584.66	584.89	585.12
CS15	582.27	582.57	582.87	583.16	583.42	583.67	583.92	584.16	584.40	584.64	584.87	585.10
CS16	582.15	582.46	582.76	583.05	583.31	583.56	583.81	584.05	584.30	584.53	584.77	585.00
CS17	581.96	582.26	582.56	582.86	583.12	583.37	583.62	583.86	584.11	584.35	584.58	584.82
CS18	581.76	582.01	582.31	582.61	582.92	583.18	583.43	583.68	583.93	584.17	[illegible]	[illegible]
CS19	581.56	581.87	582.17	582.47	582.73	582.99	583.25	583.50	583.74	583.99	584.25	584.46

Note: Slab elevations are top of slab elevations at ℄ stringers. see sh. 40

NOTES:

All Intermediate Diaphragms to be perpendicular to ℄ CS10 or ℄ CS11.

All Diaphragms in line have same mark

For size of Diaphragms & Connections see sheet 26 & 27.

For additional notes see Sheet 21

For "Bill of Materials" see sh. 7

WEST APPROACH SPANS
FRAMING PLANS - I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

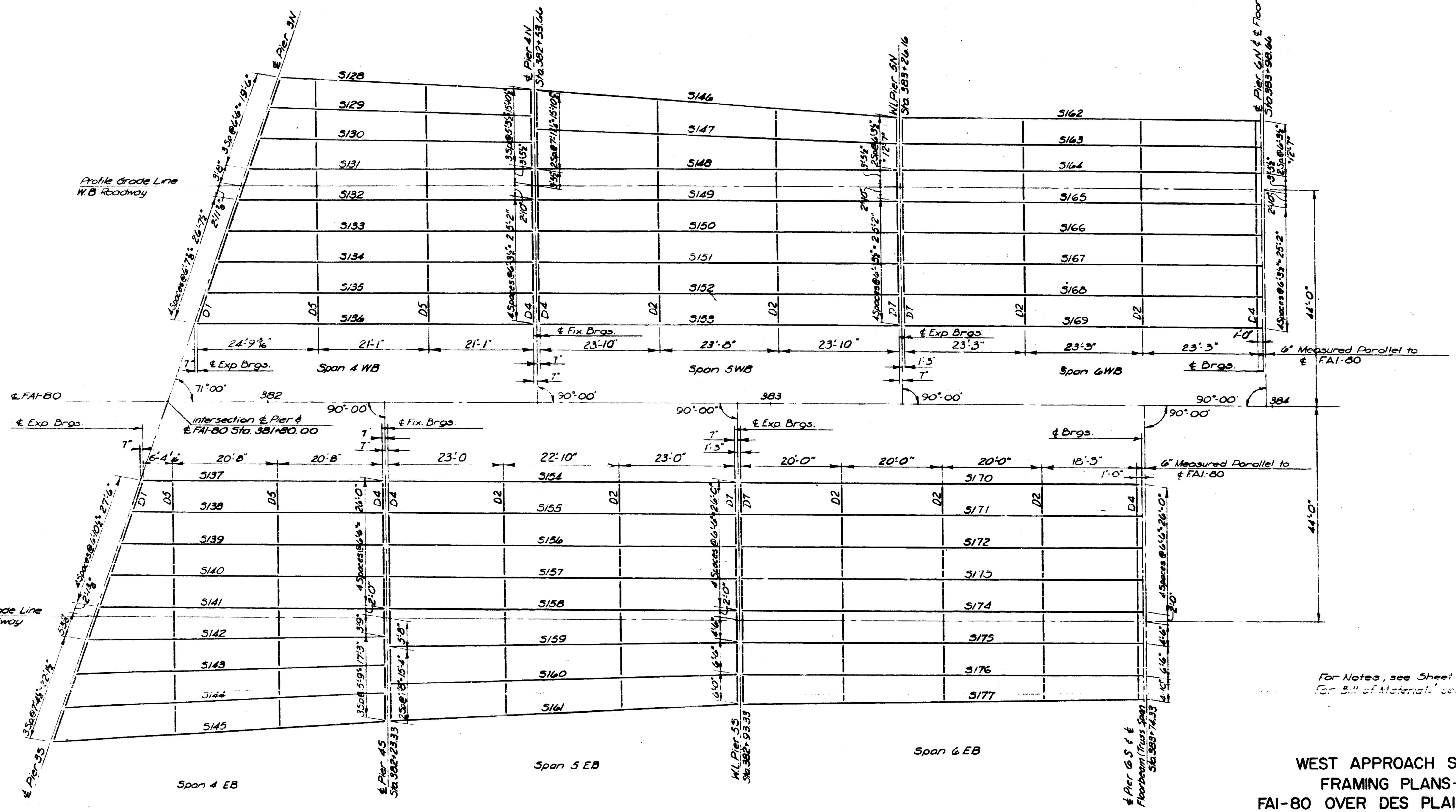
DESIGNED	R.H.
CHECKED	J.T.L.
DRAWN	K.F.B.
CHECKED	H.C.M.

FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	26
	99-3E&F		65	27
	99-3P		52	20

SHEET NO. 17
70 SHEETS



For Notes, see Sheet 21
For Bill of Material, see sh.7

WEST APPROACH SPANS
FRAMING PLANS-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	R.H.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.

FAI ROUTE 80 PROJECT
SECTION 99-3D-E&F-P WILL COUNTY
Scale: None Date: Dec. 28, 1960

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

174 B-7017

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ': " / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 11 OF 87 SHEETS

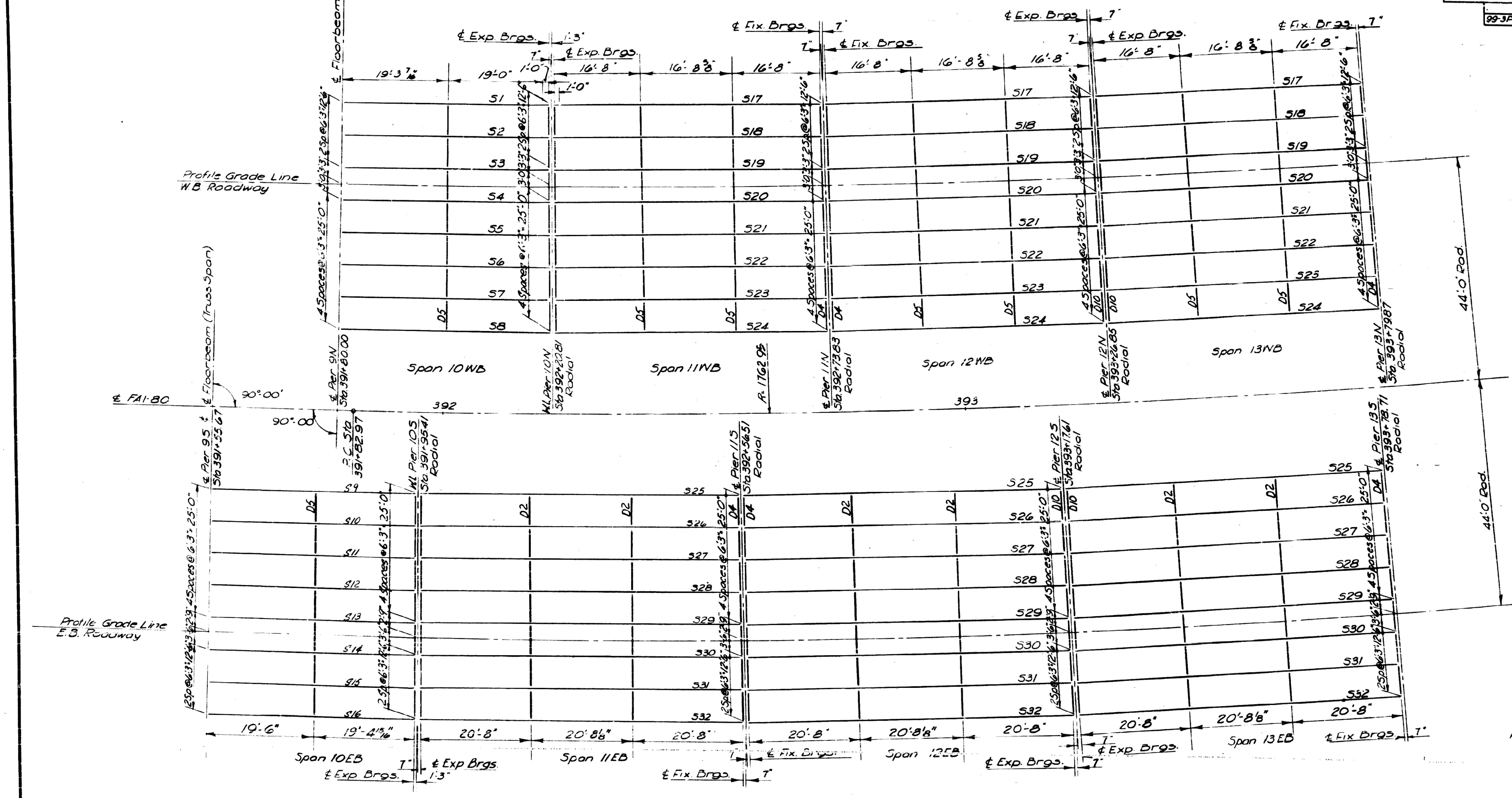
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	959

CONTRACT NO. 62R23
ILLINOIS FED. AID PROJECT

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	27
	99-3E&F		65	21
	99-3P		52	21

SHEET NO. 18
70 SHEETS



For Notes see Sheet 21
For Bill of Materials see st. 15

EAST APPROACH SPANS
FRAMING PLANS-I
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

DESIGNED	R.H
CHECKED	J.T.L
DRAWN	M.M
CHECKED	H.C.M

FOR INFORMATION ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R23-Existing12.dgn

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

USER NAME = USSJ696614	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = 0:2 ' / in.	DRAWN -	REVISED -
PLOT DATE = 11/5/2025	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

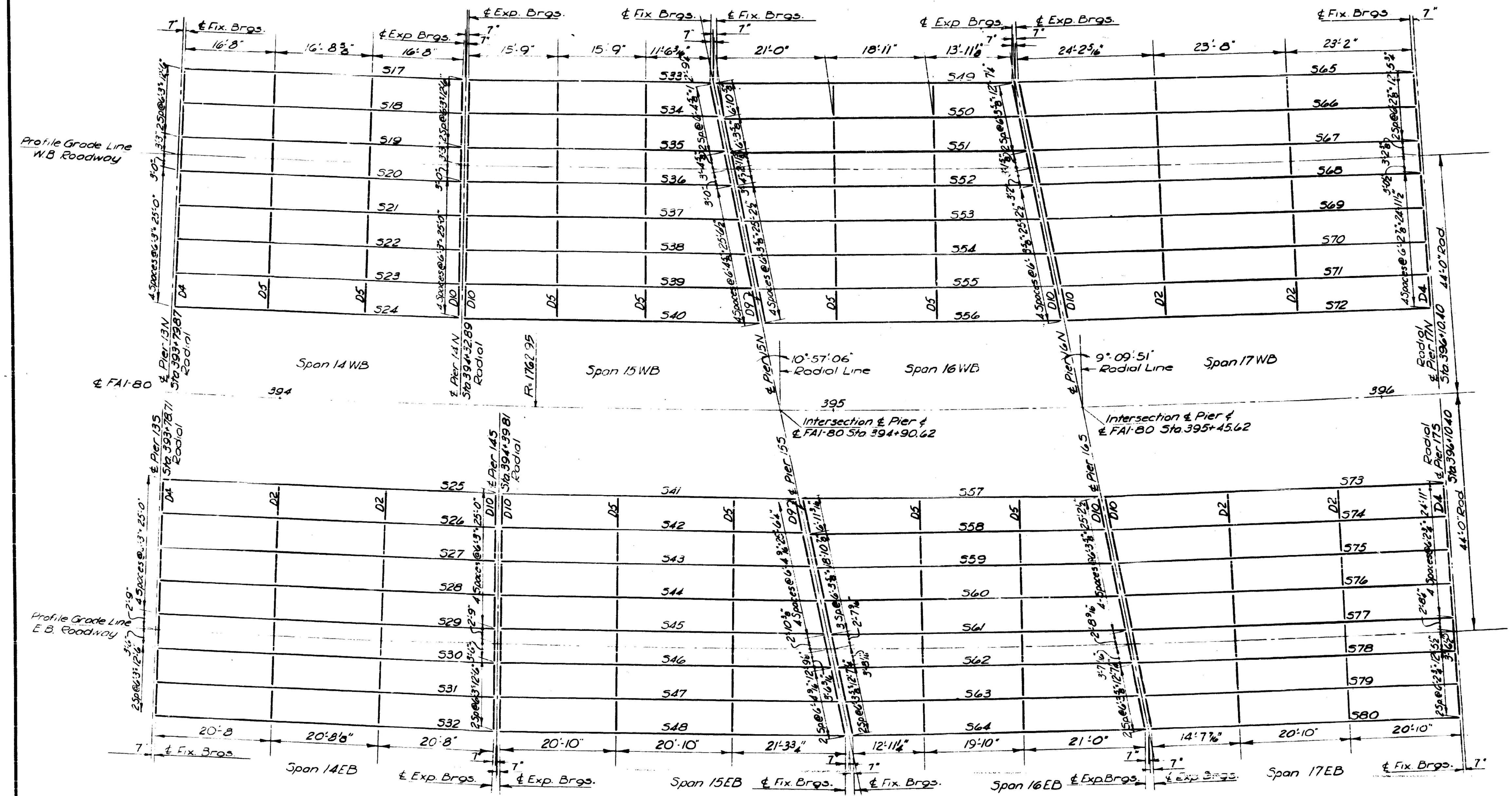
SHEET 12 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	960
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-80	99-3D	WILL	58	28
	99-3E&F		65	22
	99-3P		32	22

SHEET NO. 9
70 SHEETS



For Notes see Sheet 21
For 'Bill of Materials' see sh. 15

EAST APPROACH SPANS
FRAMING PLANS-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

DESIGNED	U.P.S.
CHECKED	R.H.
DRAWN	M.M.
CHECKED	H.C.M.

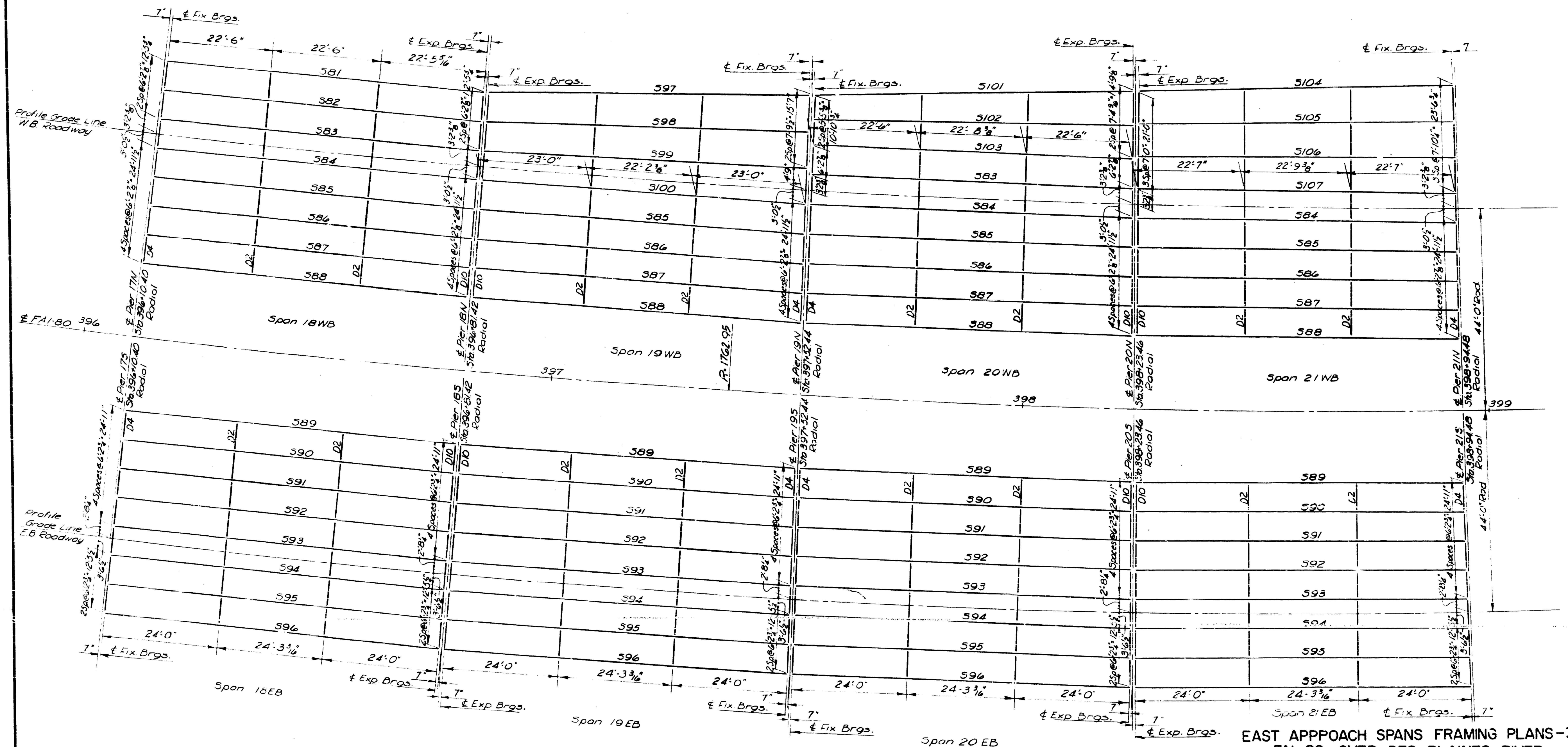
FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB	F.A.I RTE. 80	SECTION FAI 80 21 STRUCTURE 2	COUNTY WILL	TOTAL SHEETS 1230	SHEET NO. 961
		CHECKED -	REVISED -							
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -			CONTRACT NO. 62R23				
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -		SHEET 13 OF 87 SHEETS		ILLINOIS FED. AID PROJECT			

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I.-80	99-3D	WILL	58	29
	99-3E&F		65	23
	99-3P		32	23

SHEET NO. 20
70 SHEETS



EAST APPPOACH SPANS FRAMING PLANS-3
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

F.A.I ROUTE 80 PROJECT
SECTION 99-3D-E&F-P
WILL COUNTY
Scale: None
Date: Dec 28, 1960

For Notes see Sheet 21
For Bill of Materials see sh. 15

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

DESIGNED	J.P.S
CHECKED	R.H
DRAWN	M.M
CHECKED	H.C.M

FOR INFORMATION ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CADD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R23-Existing14.dgn

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ½" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

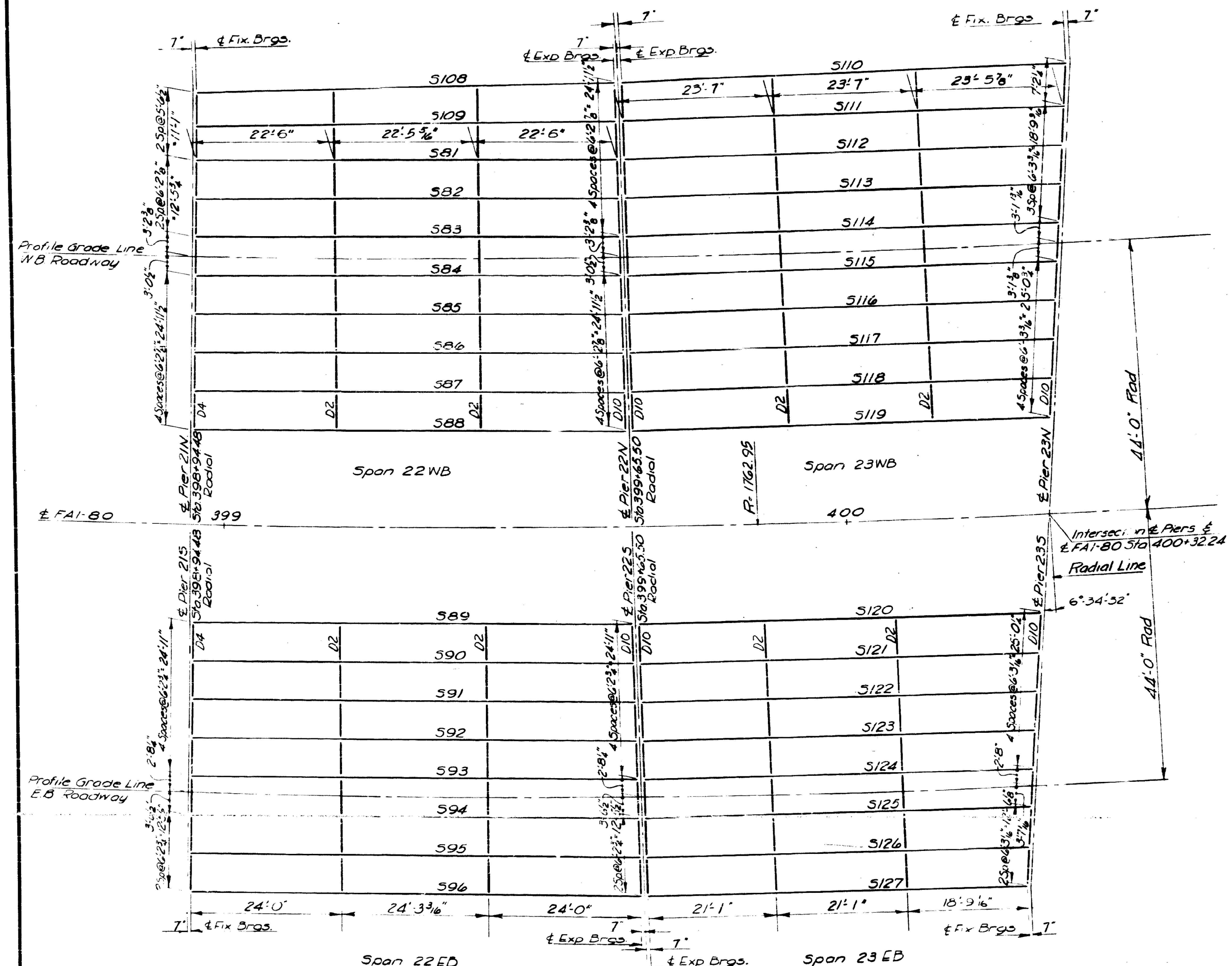
SHEET 14 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	962
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	30
	99-3E&F		65	24
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		
	99-3P		62	24

SHEET NO. 21
70 SHEETS



Notes:
Stringer spacing dimensions are along ¢ of Piers.
Diminsion ¢ Pier to ¢ Bearing is measured along ¢ Stringer.
End Diaphragms are to run between ¢'s Bearing. Intermediate Diaphragms are spaced along ¢ of stringer adjacent to dimensions and run in a line perpendicular to this stringer.
All Diaphragms in line have the same mark.
For size and make-up of Stringers, see Sheets 23 & 24
For Bearing details, see Sheet No. 25
For size of Diaphragm and connection details, see Sheet 26 & 27
For Bill of Materials' see sh. 15
For Top of Beam Elevations, see sh. 42

DESIGNED	R.H.
CHECKED	J.P.S.
DRAWN	M.M.
CHECKED	H.C.M.

EAST APPROACH SPANS
FRAMING PLANS-4
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '/" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

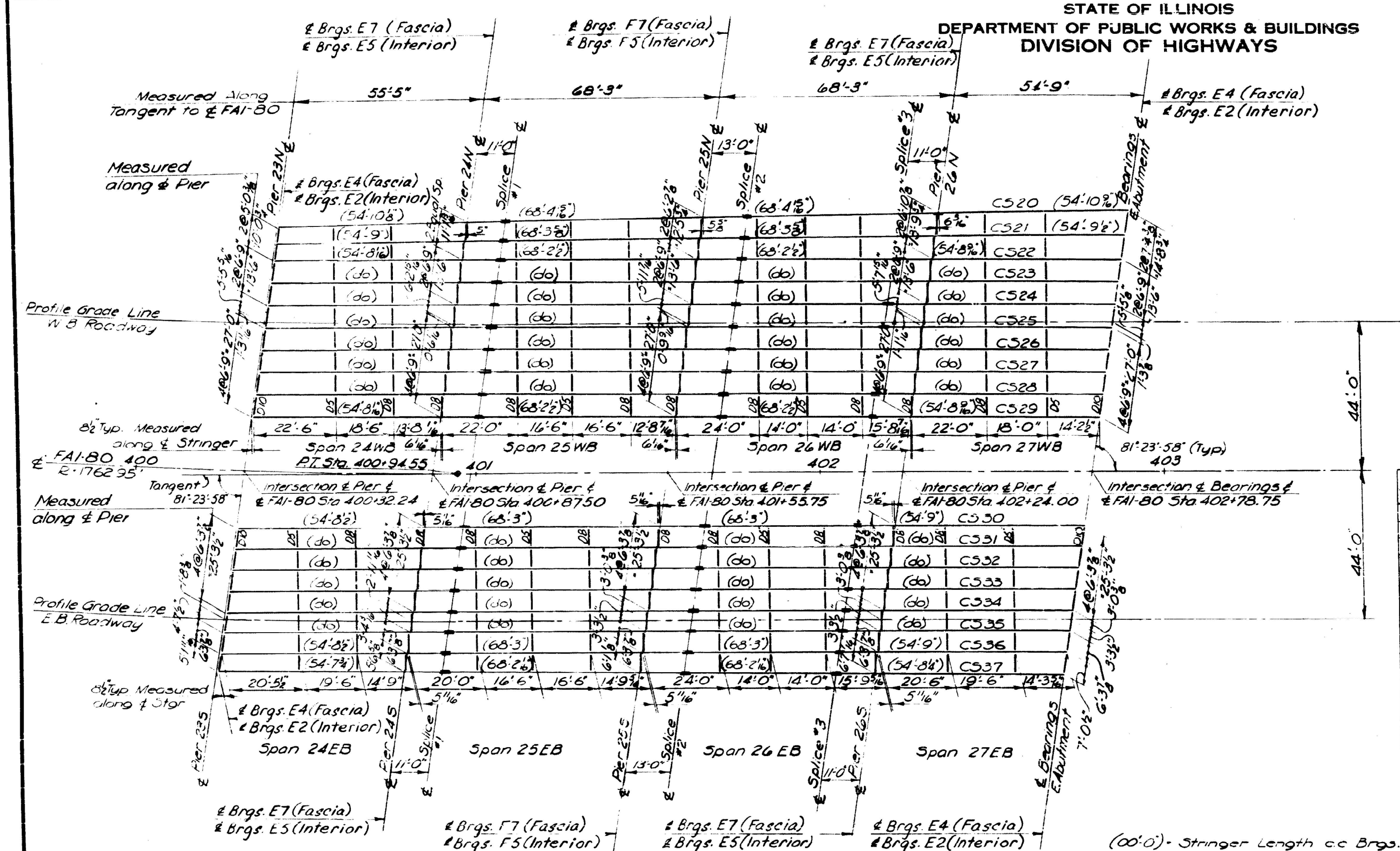
SHEET 15 OF 87 SHEETS

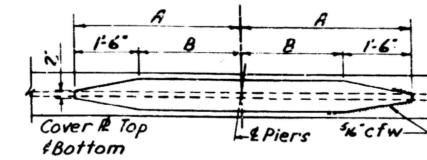
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	963
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R23-Existing15.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	31
	99-3E&F		65	25
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		
	99-3P		52	25

SHEET NO. 22
70 SHEETS





DETAIL OF COVER ℞

TABLE OF COVER PLATES

Stringer No.	Beam Size	Cover Plate Piers 24 & 26				Cover Plate Pier 25			
		Size	A	B	Length	Size	A	B	Length
CS20 & CS29	36WF170	None	—	—	—	None	—	—	—
CS21 & CS22	30WF132	8"×3/4"	8'-6"	7'-0"	17'-0"	8"×7/8"	7'-6"	6'-0"	15'-0"
CS23 Thru CS28 Incl.	30WF124	8"×3/4"	8'-6"	7'-0"	17'-0"	8"×7/8"	8'-0"	6'-6"	16'-0"
CS30 & CS37	36WF170	None	—	—	—	None	—	—	—
CS31 Thru CS35 Incl.	30WF116	8"×11/16"	8'-6"	7'-0"	17'-0"	8"×3/4"	8'-0"	6'-6"	16'-0"
CS36	30WF124	8"×3/4"	8'-6"	7'-0"	17'-0"	8"×7/8"	8'-0"	6'-6"	16'-0"

TOP OF BEAM ELEVATIONS

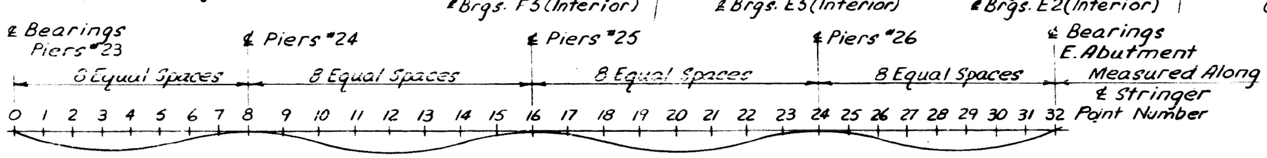
Stgr. No.	℄ Bearing					℄ Splice		
	Pier 23	Pier 24	Pier 25	Pier 26	E. Abut.	#1	#2	#3
CS20	565.46	563.87	561.96	559.88	558.22	563.58	561.57	560.22
CS21	565.61	564.03	562.11	560.06	558.41	563.73	561.73	560.39
CS22	565.77	564.18	562.27	560.23	558.57	563.89	561.89	560.56
CS23	565.98	564.37	562.44	560.40	558.76	564.06	562.06	560.73
CS24	566.19	564.55	562.58	560.53	558.89	564.23	562.20	560.86
CS25	566.40	564.69	562.64	560.59	558.95	564.36	562.25	560.92
CS26	566.62	564.80	562.62	560.57	558.92	564.45	562.24	560.90
CS27	566.83	564.87	562.53	560.48	558.83	564.49	562.14	560.81
CS28	567.04	564.94	562.42	560.37	558.72	564.53	562.04	560.70
CS29	567.25	565.01	562.31	560.26	558.61	564.57	561.93	560.59
CS30	565.83	564.30	562.45	560.40	558.76	564.01	562.07	560.73
CS31	566.02	564.48	562.61	560.56	558.92	564.19	562.22	560.89
CS32	566.22	564.67	562.76	560.72	559.07	564.36	562.38	561.05
CS33	566.42	564.85	562.92	560.87	559.23	564.53	562.53	561.20
CS34	566.61	565.00	563.01	560.96	559.32	564.68	562.63	561.30
CS35	566.81	565.14	563.04	560.99	559.35	564.80	562.66	561.32
CS36	567.01	565.25	563.01	560.95	559.41	564.89	562.62	561.28
CS37	567.17	565.33	562.93	560.85	559.20	564.95	562.52	561.18

D.L. DEFLECTIONS

Stgr. No.	Span 24			Span 25			Span 26			Span 27		
	Pt. 2	Pt. 4	Pt. 6	Pt. 10	Pt. 12	Pt. 14	Pt. 18	Pt. 20	Pt. 22	Pt. 26	Pt. 28	Pt. 30
CS20	1/4"	1/4"	1/8"	3/16"	3/8"	3/16"	3/16"	3/8"	3/16"	1/8"	1/4"	1/4"
CS21	3/8"	7/16"	3/16"	5/16"	9/16"	5/16"	5/16"	9/16"	5/16"	3/16"	7/16"	3/8"
CS22												
CS23												
CS24												
CS25												
CS26												
CS27												
CS28	3/8"	7/16"	3/16"	5/16"	9/16"	5/16"	5/16"	9/16"	5/16"	3/16"	7/16"	3/8"
CS29	1/4"	1/4"	1/8"	3/16"	3/8"	3/16"	3/16"	3/8"	3/16"	1/8"	1/4"	1/4"
CS30	1/4"	1/4"	1/8"	3/16"	3/8"	3/16"	3/16"	3/8"	3/16"	1/8"	1/4"	1/4"
CS31	3/8"	7/16"	3/16"	5/16"	9/16"	5/16"	5/16"	9/16"	5/16"	3/16"	7/16"	3/8"
CS32												
CS33												
CS34												
CS35												
CS36	3/8"	7/16"	3/16"	5/16"	9/16"	5/16"	5/16"	9/16"	5/16"	3/16"	7/16"	3/8"
CS37	1/4"	1/4"	1/8"	3/16"	3/8"	3/16"	3/16"	3/8"	3/16"	1/8"	1/4"	1/4"

Note: All Deflections are down.
Deflections are for weight of concrete slab only.

NOTES:
All Intermediate Diaphragms to be perpendicular to ℄ CS29 or ℄ CS36.
All Diaphragms in line have the same mark.
For sizes of Diaphragms & connections, see sheets 26 & 27
For additional notes see Sheet 21
For 'Bill of Materials' see sh 15



DEAD LOAD DEFLECTIONS

TOP OF SLAB ELEVATIONS

Stgr. No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CS20	566.09	565.89	565.69	565.49	565.29	565.09	564.89	564.70	564.50	564.27	564.04	563.80	563.57	563.34	563.10	562.85	562.59
CS21	566.24	566.04	565.84	565.64	565.44	565.25	565.05	564.85	564.66	564.42	564.19	563.95	563.72	563.48	563.25	563.00	562.74
CS22	566.40	566.20	566.00	565.80	565.60	565.40	565.21	565.01	564.81	564.58	564.35	564.11	563.88	563.64	563.41	563.15	562.90
CS23	566.61	566.41	566.20	566.00	565.80	565.60	565.40	565.20	565.00	564.76	564.52	564.29	564.05	563.81	563.57	563.32	563.07
CS24	566.82	566.61	566.40	566.20	565.99	565.79	565.59	565.38	565.18	564.93	564.69	564.44	564.20	563.96	563.71	563.46	563.21
CS25	567.03	566.81	566.60	566.38	566.17	565.96	565.74	565.53	565.32	565.06	564.80	564.55	564.29	564.03	563.78	563.52	563.27
CS26	567.25	567.01	566.78	566.56	566.33	566.10	565.88	565.65	565.43	565.15	564.88	564.60	564.33	564.06	563.78	563.50	563.25
CS27	567.46	567.21	566.97	566.72	566.48	566.23	565.99	565.74	565.50	565.20	564.91	564.61	564.31	564.02	563.71	563.41	563.16
CS28	567.67	567.42	567.15	566.89	566.62	566.36	566.09	565.83	565.57	565.25	564.93	564.61	564.28	563.96	563.64	563.31	563.05
CS29	567.88	567.63	567.34	567.06	566.77	566.49	566.21	565.93	565.64	565.30	564.95	564.61	564.26	563.91	563.56	563.21	562.94
CS30	566.46	566.25	566.06	565.87	565.68	565.49	565.30	565.12	564.93	564.70	564.47	564.24	564.01	563.78	563.55	563.32	563.08
CS31	566.65	566.44	566.25	566.06	565.87	565.68	565.49	565.30	565.11	564.88	564.65	564.41	564.18	563.94	563.71	563.48	563.24
CS32	566.85	566.64	566.44	566.25	566.06	565.87	565.67	565.48	565.30	565.06	564.82	564.58	564.35	564.11	563.87	563.63	563.39
CS33	567.05	566.84	566.64	566.44	566.24	566.05	565.86	565.67	565.48	565.23	564.99	564.75	564.51	564.27	564.03	563.79	563.55
CS34	567.24	567.03	566.83	566.63	566.43	566.23	566.03	565.84	565.63	565.38	565.13	564.89	564.64	564.39	564.14	563.89	563.64
CS35	567.44	567.23	567.02	566.81	566.60	566.39	566.18	565.97	565.77	565.50	565.24	564.98	564.72	564.46	564.19	563.93	563.67
CS36	567.64	567.43	567.22	566.99	566.77	566.54	566.32	566.10	565.88	565.60	565.32	565.04	564.76	564.48	564.20	563.92	563.64
CS37	567.80	567.59	567.38	567.15	566.91	566.67	566.43	566.20	565.96	565.66	565.36	565.06	564.76	564.46	564.16	563.86	563.56

Stgr. No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CS20	562.33	562.07	561.81	561.55	561.29	561.03	560.77	560.51	560.31	560.10	559.89	559.68	559.48	559.27	559.06	558.85
CS21	562.49	562.23	561.97	561.72	561.46	561.20	560.94	560.69	560.48	560.28	560.07	559.86	559.66	559.45	559.24	559.04
CS22	562.65	562.39	562.13	561.88	561.63	561.37	561.11	560.86	560.65	560.45	560.25	560.04	559.84	559.63	559.43	559.22
CS23	562.81	562.56	562.30	562.05	561.79	561.54	561.28	561.03	560.82	560.62	560.41	560.21	560.01	559.80	559.60	559.39
CS24	562.95	562.70	562.44	562.18	561.93	561.67	561.42	561.16	560.96	560.75	560.55	560.34	560.14	559.93	559.73	559.52
CS25	563.01	562.75	562.50	562.24	561.99	561.73	561.48	561.22	561.01	560.81	560.60	560.40	560.19	559.99	559.78	559.58
CS26	562.99	562.74	562.48	562.22	561.97	561.71	561.45	561.20	560.99	560.79	560.58	560.38	560.17	559.97	559.76	559.55
CS27	562.90	562.64	562.39	562.13	561.87	561.62	561.36	561.11	560.90	560.69	560.49	560.28	560.08	559.87	559.67	559.46
CS28	562.79	562.54	562.28	562.02	561.77	561.51	561.25	561.00	560.79	560.59	560.38	560.17	559.97	559.76	559.56	559.35
CS29	562.68	562.43	562.17	561.91	561.66	561.40	561.14	560.89	560.68	560.48	560.27	560.07	559.86	559.65	559.45	559.24
CS30	562.82	562.57	562.31	562.05	561.80	561.54	561.29	561.03	560.82	560.62	560.41	560.21	560.00	559.80	559.59	559.39
CS31	562.98	562.72	562.47	562.21	561.96	561.70	561.44	561.19	560.98	560.78	560.57	560.37	560.16	559.96	559.75	559.55
CS32	563.14	562.88	562.63	562.37	562.11	561.86	561.60	561.35	561.14	560.94	560.73	560.53	560.32	560.12	559.91	559.70
CS33	563.29	563.03	562.78	562.52	562.27	562.01	561.76	561.50	561.29	561.09	560.88	560.68	560.47	560.27	560.06	559.86
CS34	563.38	563.13	562.87	562.62	562.36	562.11	561.85	561.59	561.39	561.18	560.98	560.77	560.57	560.36	560.16	559.95
CS35	563.41	[illegible]	[illegible]	[illegible]	562.39	562.15	561.88	561.62	561.42	561.21	561.01	560.80	560.59	560.39	560.18	559.98
CS36	563.37	563.12	562.86	562.60	562.35	562.09	561.84	561.58	561.37	561.17	560.96	560.76	560.55	560.35	560.14	560.04
CS37	563.28	563.02	562.76	562.51	562.25	561.99	561.74	561.48	561.27	561.07	560.86	560.65	560.45	560.24	560.04	559.83

Note: Elevations are final top of concrete slab elevations at ℄ stringers see sh 40

DESIGNED	R. H.
CHECKED	J. T.
DRAWN	F. S.
CHECKED	[illegible]

EAST APPROACH SPANS
FRAMING PLANS-5
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 1961

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

FOR INFORMATION ONLY

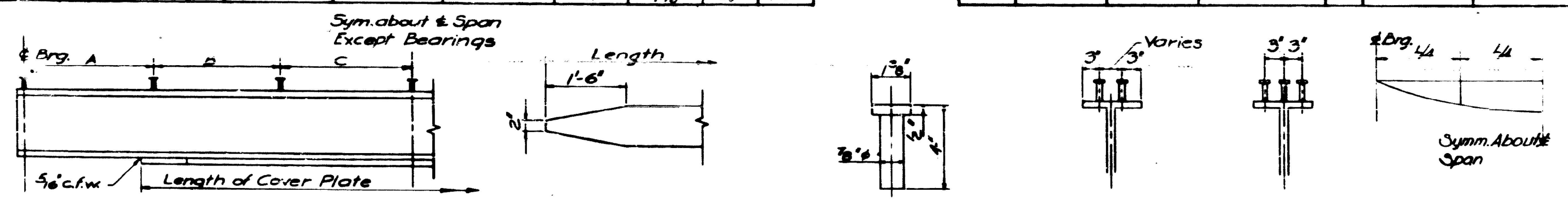
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	31A

SHEET NO. 24 / 70 SHEETS

MARK	LENGTH C-C BRGS	SIZE -WF-	BOTTOM COVER PLATE	SHEAR CONNECTORS TYPE	A	B	C	** DEAD LOAD DEFLECTION ¼ PT	℄ SPAN	BEARING TYPES EXP	FIX
S101	67'-3 7/16"	36 WF 150	10"×1"×48'-0"	I	12'-9"@8 1/2"	11'-8"@10"	to ℄@16"	9/16"	3/4"	E4	F4
S102	67'-5 9/16"	36 WF 150	10"×1"×48'-0"	II	12'-9"@8 1/2"	11'-8"@10"	to ℄@16"	5/8"	7/8"	E4	F4
S103	61'-8 5/8"	36 WF 150	10"×1"×48'-0"	II	12'-9"@8 1/2"	11'-8"@10"	to ℄@16"	5/8"	7/8"	E4	F4
* S104	67'-1 3/16"	36 WF 160	10"×1 1/8"×48'-6"	I	14'-0"@8"	10'-10"@10"	to ℄@14"	5/8"	7/8"	E4	F4
* S105	67'-4 7/16"	36 WF 160	10"×1 1/8"×48'-6"	II	14'-0"@8"	10'-10"@10"	to ℄@14"	11/16"	13/16"	E4	F4
* S106	67'-7 13/16"										
* S107	67'-11 3/8"	36 WF 160	10"×1 1/8"×48'-6"	II	14'-0"@8"	10'-10"@10"	to ℄@14"	11/16"	13/16"	E4	F4
S108	66'-11 1/16"	36 WF 150	10"×1"×49'-0"	I	13'-0"@6"	12'-0"@8"	to ℄@11"	9/16"	3/4"	E4	F4
S109	67'-2 1/2"	36 WF 150	10"×1"×49'-0"	I	13'-0"@6"	12'-0"@8"	to ℄@11"	5/8"	13/16"	E4	F4
* S110	71'-2 11/16"	36 WF 160	10"×1 1/8"×51'-0"	II	12'-0"@8"	10'-1"@11"	to ℄@16"	3/4"	1 1/8"	E4	F4
* S111	70'-7 7/8"	36 WF 160	10"×1 1/8"×51'-0"	II	12'-0"@8"	10'-1"@11"	to ℄@16"	1"	1 3/8"	E4	F4
S112	70'-2 5/8"	36 WF 150	10"×1"×49'-0"	I	13'-0"@6"	12'-0"@8"	to ℄@11"	5/8"	15/16"	E4	F4
S113	69'-8 3/8"										
S114	69'-2 9/16"										
S115	68'-8 1/2"										
S116	68'-3"										
S117	67'-9 1/4"										
S118	67'-3 7/16"	36 WF 150	10"×1"×49'-0"	I	13'-0"@6"	12'-0"@8"	to ℄@11"	5/8"	13/16"	E4	F4
S119	66'-9 11/16"	36 WF 150	10"×1"×49'-0"	I	13'-0"@6	12'-0"@8"	to ℄@11"	9/16"	3/4"	E4	F4
S120	64'-3 1/2"	36 WF 150	10"×5/8"×41'-6"	I	12'-0"@6"	12'-0"@8"	to ℄@10 1/2"	1/2"	3/4"	E4	F4
S121	63'-9 11/16"	33 WF 130	9"×1"×47'-0"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	15/16"	E3	F3
S122	63'-3 11/16"										
S123	62'-10 3/16"										
S124	62'-4 3/8"	33 WF 130	9"×1"×47'-0"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	15/16"	E3	F3
S125	61'-10 5/8"	33 WF 130	8"×1"×43'-6"	I	11'-0"@6"	11'-3"@7 1/2"	to ℄@10"	9/16"	3/4"	E3	F3
S126	61'-4 3/8"	33 WF 130	8"×1"×43'-6"	I	11'-0"@6"	11'-3"@7 1/2"	to ℄@10"	9/16"	3/4"	E3	F3
S127	60'-11 1/16"	36 WF 150	—	I	9'-9"@6 1/2"	10'-0"@8"	to ℄@10 1/2"	1/2"	11/16"	E4	F4
S128	49'-10 3/8"	36 WF 150	—	I	6'-0"@6"	10'-0"@8"	to ℄@12"	1/4"	5/16"	E4	F4
S129	51'-11 5/16"	30 WF 108	8"×7/8"×38'-6"	II	10'-0"@7 1/2"	9'-2"@10"	to ℄@14"	7/16"	5/8"	E2	F2
S130	54'-0 1/2"	30 WF 108	8"×7/8"×38'-6"	II	10'-0"@7 1/2"	9'-2"@10"	to ℄@14"	7/16"	5/8"	E2	F2
S131	56'-1 3/16"	30 WF 108	8"×1"×41'-0"	II	11'-3"@7 1/2"	10'-10"@10"	to ℄@15"	1/2"	3/4"	E2	F2
* S132	58'-3 13/16"	30 WF 116	8"×1 1/8"×43'-6"	II	12'-8"@8"	9'-0"@12"	to ℄@15"	9/16"	13/16"	E2	F2
S133	60'-5 13/16"	33 WF 130	8"×1"×43'-6"	I	11'-0"@6"	11'-3"@7 1/2"	to ℄@10"	9/16"	3/4"	E3	F3
S134	62'-7 13/16"	33 WF 130	9"×1"×47'-0"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	15/16"	E3	F3
S135	64'-9 7/16"	33 WF 130	9"×1"×47'-0"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	15/16"	E3	F3
S136	66'-11 13/16"	36 WF 150	10"×7/8"×47'-0"	I	9'-9"@6 1/2"	10'-0"@7 1/2"	to ℄@10"	9/16"	3/4"	E4	F4
S137	47'-8 1/8"	36 WF 150	—	I	6'-0"@6"	10'-0"@8"	to ℄@12"	1/4"	5/16"	E4	F4
S138	49'-10 15/16"	30 WF 108	8"×3/4"×36'-0"	II	10'-0"@7 1/2"	8'-4"@10"	to ℄@14"	7/16"	9/16"	E2	F2
S139	52'-1 3/4"	30 WF 108	8"×7/8"×38'-6"	II	10'-0"@7 1/2"	9'-2"@10"	to ℄@14"	7/16"	5/8"	E2	F2
S140	54'-4 5/8"	30 WF 108	8"×1"×41'-0"	II	11'-3"@7 1/2"	10'-10"@10"	to ℄@15"	1/2"	3/4"	E2	F2
* S141	56'-7 1/2"	30 WF 116	8"×1 1/8"×43'-6"	II	12'-8"@8"	9'-0"@12"	to ℄@15"	9/16"	13/16"	E2	F2
S142	59'-0 7/16"	33 WF 130	8"×1"×43'-6"	I	11'-0"@6"	11'-3"@7 1/2"	to ℄@10"	9/16"	3/4"	E3	F3
S143	61'-5 11/16"	33 WF 130	8"×1"×43'-6"	I	11'-0"@6"	11'-3"@7 1/2"	to ℄@10"	9/16"	3/4"	E3	F3
S144	64'-11 3/16"	33 WF 130	9"×1"×47'-0"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	15/16"	E3	F3
S145	66'-4 7/8"	36 WF 150	10"×7/8"×47'-0"	I	9'-9"@6 1/2"	10'-0"@7 1/2"	to ℄@10"	9/16"	3/4"	E4	F4
* S146	71'-4 7/8"	36 WF 160	10"×1 1/8"×51'-0"	II	12'-0"@8"	10'-1"@11"	to ℄@16"	3/4"	1 1/8"	E4	F4
* S147	71'-4 1/4"	36 WF 160	10"×1 1/8"×51'-0"	II	12'-0"@8"	10'-1"@11"	to ℄@16"	1"	1 3/8"	E4	F4
* S148	71'-4"	36 WF 160	10"×1 1/8"×51'-0"	II	12'-0"@8"	10'-1"@11"	to ℄@16"	1"	1 3/8"	E4	F4
S149	71'-4"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	3/4"	1 1/16"	E4	F4
S150	71'-4"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	3/4"	1 1/16"	E4	F4

MARK	LENGTH C-C BRGS	SIZE -WF-	BOTTOM COVER PLATE	SHEAR CONNECTORS TYPE	A	B	C	** DEAD LOAD DEFLECTION ¼ PT	℄ SPAN	BEARING TYPES EXP	FIX
S151	71'-4"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	3/4"	1 1/16"	E4	F4
S152	71'-4"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	3/4"	1 1/16"	E4	F4
S153	71'-4"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6	12'-6"@7 1/2"	to ℄@10"	11/16"	1"	E4	F4
S154	68'-10"	36 WF 150	10"×1"×49'-0"	I	13'-0"@6	12'-0"@8"	to ℄@11"	9/16"	3/4"	E4	F4
S155		36 WF 150	10"×1"×49'-0"	I	13'-0"@6"	12'-0"@8"	to ℄@11"	5/8"	13/16"	E4	F4
S156											
S157		36 WF 150	10"×1"×49'-0"	I	13'-0"@6"	12'-0"@8"	to ℄@11"	5/8"	15/16"	E4	F4
* S158	68'-10"	36 WF 160	10"×1 1/8"×48'-6"	II	14'-0"@8"	10'-10"@10"	to ℄@14"	11/16"	15/16"	E4	F4
* S159	68'-10 1/8"										
* S160	68'-10 3/4"	36 WF 160	10"×1 1/8"×48'-6"	II	14'-0"@8"	10'-10"@10"	to ℄@14"	11/16"	15/16"	E4	F4
* S161	68'-11 3/8"	36 WF 160	10"×1 1/8"×48'-6"	II	14'-0"@8"	10'-10"@10"	to ℄@14"	5/8"	7/8"	E4	F4
S162	70'-9"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	1"	E1	F1
S163		36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	3/4"	1 1/16"		
S164											
S165											
S166											
S167											
S168		36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	3/4"	1 1/16"		
S169	70'-9"	36 WF 150	10"×1"×50'-6"	I	12'-0"@6"	12'-6"@7 1/2"	to ℄@10"	11/16"	1"		
* S170	79'-3"	36 WF 194	10"×1 3/8"×58'-0"	I	11'-11"@6 1/2"	12'-6"@7 1/2"	to ℄@10"	13/16"	1 3/16"		
* S171		36 WF 194	10"×1 3/8"×58'-0"	I	11'-11"@6 1/2"	12'-6"@7 1/2"	to ℄@10"	7/8"	1 1/4"		
* S172											
* S173											
* S174											
* S175											
* S176	79'-3"	36 WF 194	10"×1 3/8"×58'-0"	I	11'-11"@6 1/2"	12'-6"@7 1/2"	to ℄@10"	7/8"	1 1/4"		
* S177	79'-3 1/8"	36 WF 194	10"×1 3/8"×58'-0"	I	11'-11"@6 1/2"	12'-6"@7 1/2"	to ℄@10"	13/16"	1 3/16"	E1	F1



PITCH OF SHEAR CONNECTORS & COVER PLATE LENGTH

DETAIL OF END OF BOTTOM COVER PLATE

STUD DETAIL

TYPE I TYPE II SHEAR CONNECTOR

DEAD LOAD DEFLECTION DIAGRAM

For 'Bill of Materials' see shts. 7 & 15

Beams and Cover Plates of Stringers Noted thus (*) to be of Structural Steel for Welding, A.S.T.M. A 373

** Dead Load Deflections are due to Weight of Concrete Slab only

EAST & WEST APPROACH SPANS
STRINGER TABLES-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3E(F-P
Scale:

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

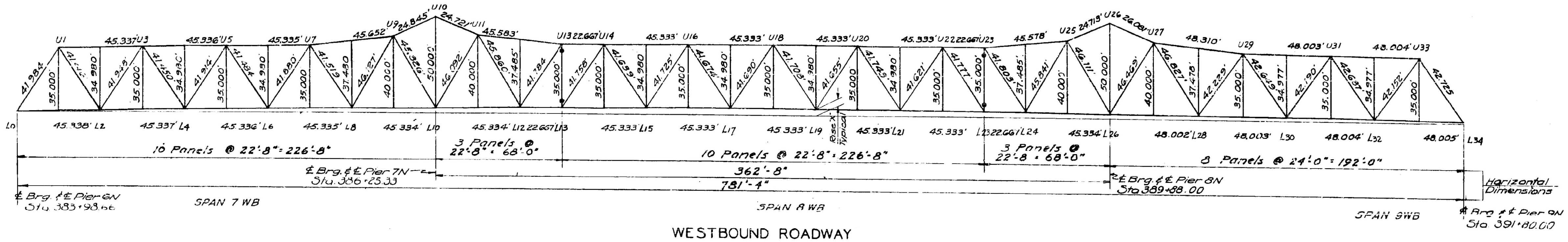
DESIGNED	R.H.
CHECKED	J.T.L.
DRAWN	M.C.
CHECKED	H.C.M.

174B-7024

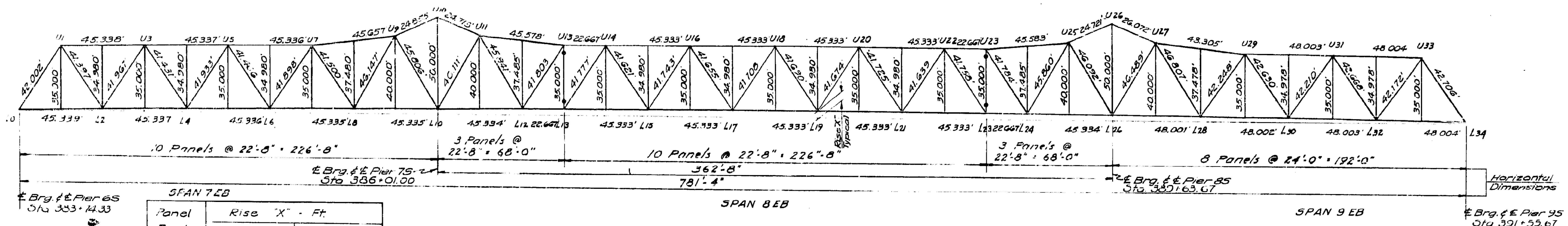
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	48
	99-3E&F		65	41
	99-3P		52	31

SHEET NO. 47
70 SHEETS



WESTBOUND ROADWAY



EASTBOUND ROADWAY

Panel Point	Rise "X" - Ft.	
	Westbound	Eastbound
L0	0.000	0.000
L2	0.6"7	0.721
L4	1.271	1 359
L6	1 783	1.916
L8	2.214	2.390
L10	2.561	2.782
L12	2.827	3.092
L13	2.929	3.216
L15	3.071	3.402
L17	3.132	3.507
L19	3 110	3 529
L21	3.005	3.468
L23	2.819	3.326
L24	2.695	3.224
L26	2.385	2.958
L28	1.967	2.587
L30	1.458	2.124
L32	0.856	1.569
L34	0.162	0.922

DIAGRAM OF TRUSS

Showing Nominal Lengths of Members

BILL OF MATERIALS
TRUSS SPANS

ITEM	UNIT	Section 99-3D		Section 99-3E&F	
		W.B. Rdwy	E.B. Rdwy	W.B. Rdwy	E.B. Rdwy
Class X Concrete	CY	842	842		
Fur.& Erect. Struct. Steel (Carbon)	Lb			1,808,500	1,808,500
Fur.& Erect. Struct. Steel (Low Alloy)	Lb			1,103,500	1,106,500
Fur.& Erect. Cast. Steel	Lb			35,200	35,200
Fur.& Erect. Structural Steel	Lb	7,570	7,570	2,947,200	2,[illegible]50,200
Reinforcement Bars	Lb	201,430	201,430		

DESIGNED	H. B.
CHECKED	J. E. W.
DRAWN	S. R. T.
CHECKED	J. T. L.

TRUSS SPANS
DIAGRAMS FOR NOMINAL LENGTHS
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

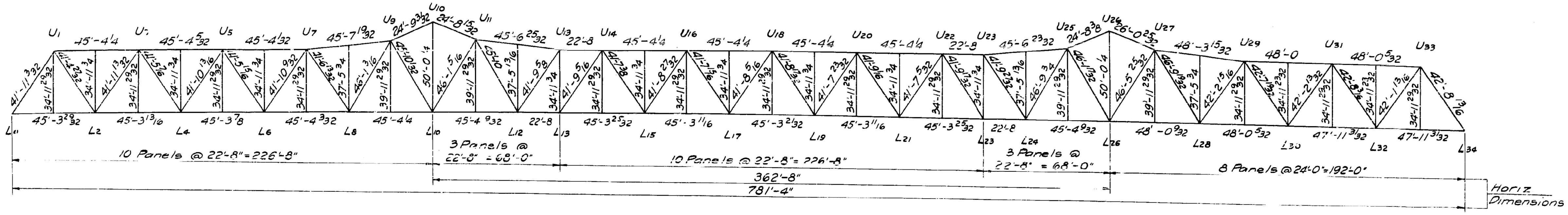
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

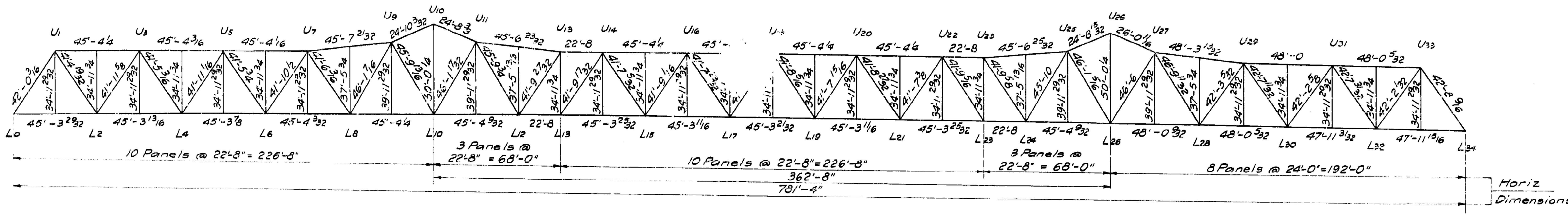
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E&F	WILL	65	42
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO. 48
70 SHEETS

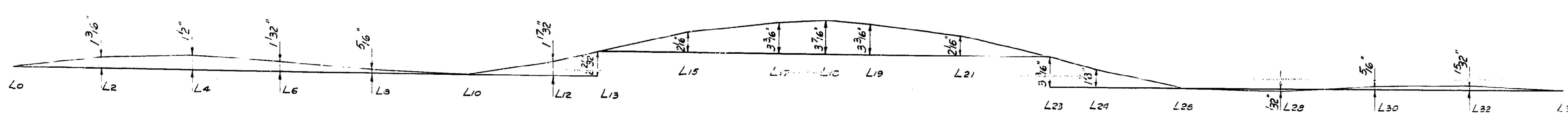


WESTBOUND ROADWAY



EASTBOUND ROADWAY

DIAGRAM OF TRUSS
Showing Fabricated Lengths of Members



CAMBER BLOCKING ORDINATES
FOR FULL DEAD LOAD CAMBER
(Camber for Vertical Curve Additional)

TRUSS SPANS
DIAGRAMS FOR FABRICATED LENGTHS
FAI-80 OVER DES PLANES RIVER
STA. 387+94.50

FAI ROUTE 80
SECTION 99-3E&F
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 196?

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS

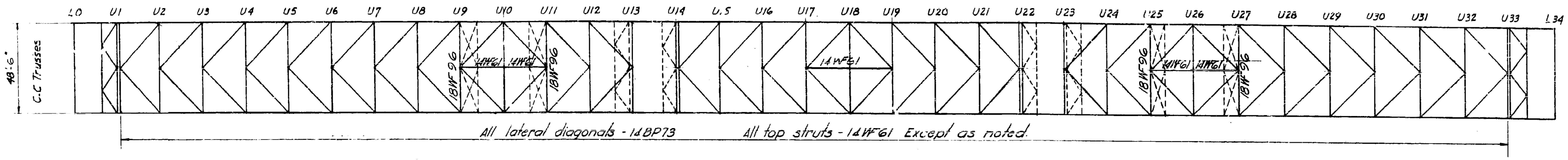
DESIGNED	PSS & JTL
CHECKED	JTL & PSS
DRAWN	SRT & JTB
CHECKED	H C M.

FOR INFORMATION ONLY

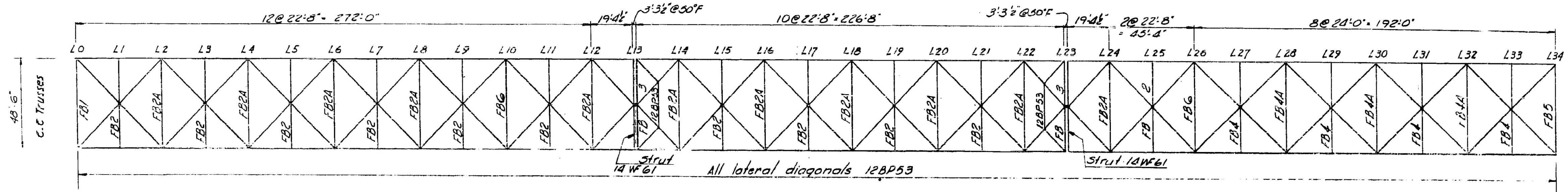
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3D	WILL	58	49
	99-3E&F		65	43
	99-3P		52	32

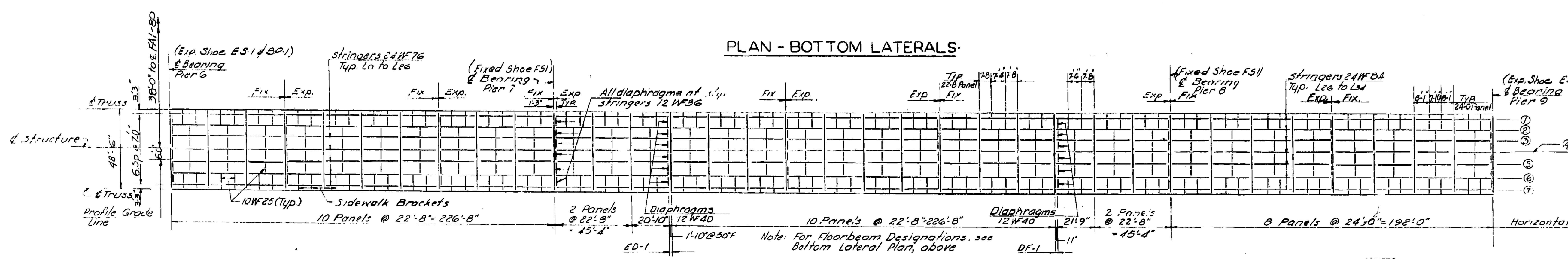
SHEET NO. 49
70 SHEETS



PLAN - TOP LATERAL SYSTEM

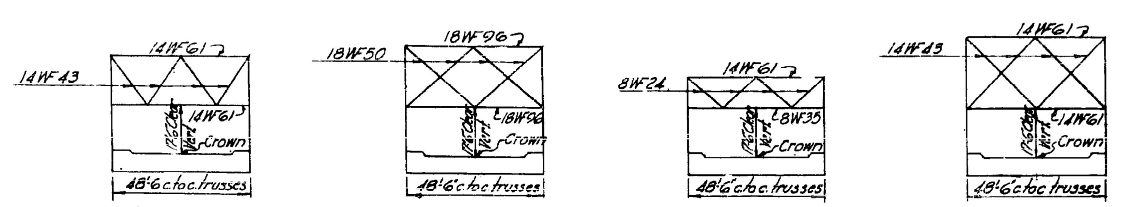


PLAN - BOTTOM LATERALS



FRAMING PLAN - FLOOR STEEL

NOTES:
For location of Approach stringers supported on FB1 see West Approach Framing Plan, sh. 17
For location of Approach stringers supported on FB5, see East Approach Framing Plan, sh. 18
All floorbeams are same for Eastbound & Westbound Structures, except FB-1. See table on sh. 50



PORTAL
L0U1, L12U13, L13U14,
U22L23, U23L24, U33L34

PORTAL
U9L10, L10U11
U25L26, L26U27

SWAY FRAME
Section @ Panel Points
3-5-7-16-18-20-29-31

SWAY FRAME
U10L10, U26L26

DESIGNED	F.C.L.
CHECKED	H.C.M.
DRAWN	S.R.T.
CHECKED	H.C.M.

TRUSS SPANS
FRAMING PLAN
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

F A I ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY.
Date: Dec. 28, 1960

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

P.I.E. 7053

FOR INFORMATION ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH/401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/Existing Plans/Sheets/0990309-62R23-Existing20.dgn

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 20 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	968

CONTRACT NO. 62R23

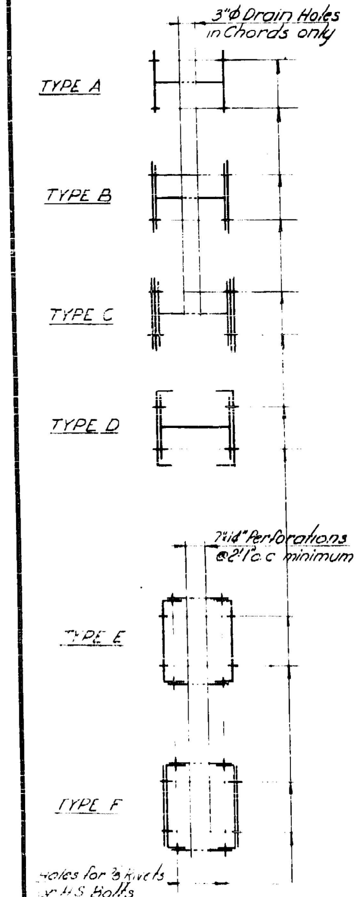
ILLINOIS FED. AID PROJECT

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3E&F	WILL	65	49
FED. ROAD DIST. NO. 7	99-3P	ILLINOIS PROJECT	52	37

SHEET NO 57
70 SHEETS

TYPES OF MEMBERS
Showing net sections used for design.



	MEMBER	STRESSES D	L T	L C	I T	I C	D+L+I T	D+L+I C	W(b)	DESIGN STRESS T	DESIGN STRESS C	SECTION SIZE	TYPE	MAT'L	L/r	ALLOWABLE STRESS KSI T	ALLOWABLE STRESS KSI C	AREA REQUIRED GROSS	AREA REQUIRED NET	AREA FURNISHED GROSS (C)	AREA FURNISHED NET
Top Chords	U1 U3	-279		137		19		435	-24		435	14WF87	A	L.A.	73.5	—	18.97	22.93	—	24.30	—
	U3 U5	-287		205		29		521	-50		521	14WF87 2-℞ 15"×½"	B	C	68.0	—	13.84	37.64	—	39.30	—
	U5 U7	-31 -27(a)	191	205	57	29	221	265	+64 -63	354	376	14WF103	A	C	73.4	18.00	13.66	27.53	19.67	28.78	25.53
	U7 U9	+461	239		72		772		+62	772		14WF87 2-℞ 15"×⅜"	B	L.A.	-	27.00	—	—	28.59	35.55	31.30
	U9 U10 U10 U11	+976	242		73		1291		+37	1291		14WF87 4-℞ 15"×½"	C	L.A.	-	27.00	—	—	47.81	54.30	47.55
	U11 U13 U23 U25	+338	86		26		450		+17	450		14WF103	A	C	-	18.00	—	—	25.00	28.78	25.53
	U13 U14 U22 U23				(Dummy Member)							14BP73	A	C	78.3	18.00	13.46	—	—	19.94	17.92
	U14 U16 U20 U22	-529		137		20		686	-14		686	14WF87 2-℞ 15"×⅜"	B	L.A.	68.3	-	19.39	35.38	-	35.55	—
	U16 U18 U18 U20	-792		206		29		1027	-31		1027	14WF87 4-℞ 15"×½"	C	L.A.	66.3	—	19.54	52.56	-	54.30	—
	U25 U26	+976	242		73		1291		+29	1291		14WF87 4-℞ 15"×½"	C	L.A.	-	27.00	—	—	47.81	54.30	47.55
	U26 U27	+913	242		73		1288		+35	1288		14WF87 4-℞ 15"×½"	C	L.A.	-	27.00	—	—	47.70	54.30	47.55
	U27 U29	+480	223		67		770		+52	770		14WF87 2-℞ 15"×⅜"	B	L.A.	-	27.00	—	—	28.52	35.55	31.30
	U29 U31	+43 +33(a)	159	159	48	25	250	51	-53 +44	326	276	14WF87	A	C	77.8	18.00	13.48	20.47	18.11	24.30	21.55
	U31 U33	-129		119		19		268	-23		268	14BP73	A	C	82.5	—	13.30	20.15	—	19.94	—
Bottom Chords	L0 L2	+173	77		11		261		+23	261		14BP73	A	C	-	18.00	—	—	14.50	19.94	17.92
	L2 L4	+316	180		26		522		+26	522		14WF87	A	L.A.	-	27.00	—	—	19.33	24.30	21.55
	L4 L6	+194 +160(a)	215	159	31	48	440	47	+20 -33(d)	472	267	14WF87	A	L.A.	73.5	27.00	18.97	14.07	17.48	24.30	21.55
	L6 L8	-196 -159(a)	180	223	26	67	47	486	-87 +64(d)	290	531	14WF87 2-℞ 15"×½"	B	C	68.0	18.00	13.84	38.37	16.11	39.30	34.55
	L8 L10	-748		251		75		1074	-179		1074	14WF87, 2-℞ 15"×9/16", 2-℞ 15"×½"	C	L.A.	66.2	-	19.53	54.94	-	56.18	—
	L10 L12 L24 L26	-691		174		52		917	-162		917	14WF87 2-℞ 15"×¾"	B	L.A.	67.0	-	19.49	47.05	-	46.80	—
	L12 L13 L23 L24				(Dummy Member)							14BP73	A	C	78.3	18.00	13.46	—	—	19.94	17.92
	L13 L15 L21 L23	+298	77		11		386		+78	386		14WF87	A	C	-	18.00	—	—	21.44	24.30	21.55
	L15 L17 L19 L21	+694	180		26		900		+108	900		14WF87 2-℞ 15"×½"	B	L.A.	-	27.00	—	—	33.33	39.30	34.55
	L17 L19	+826	215		31		1072		+108	1072		14WF87 2-℞ 15"×11/16"	B	L.A.	-	27.00	—	—	39.70	44.93	39.43
	L26 L28	-753		244		73		1070	-180		1070	14WF87, 2-℞ 15"×9/16, 2-℞ 15"×½"	C	L.A.	70.0	-	19.26	55.56	-	56.18	—
	L28 L30	-240 -196(a)	149	-199	22	60		409 25(e)	+87 +63(d)		514	14WF87 2-℞ 15"×½"	B	C	72.0	—	13.70	37.52	-	39.30	—
	L30 L32	+81 +68(a)	150	119	24	36	255	87	+22 -24(d)	300	217	14BP73	A	C	82.5	18.00	13.30	16.32	16.67	19.94	17.92
	L32 L34	+101	70		11		182		+10	182		14BP73	A	C	-	18.00	—	—	10.11	19.94	17.92

STRESS TABLE NOTES:
(a) Minimum Dead Load = 90% D.L. without future wearing surface or utilities.
(b) Wind stress from force of 75 p.s.f. unless noted.
(c) Gross area of chords are effective gross areas with 3"φ drain hole deducted.
(d) Wind stress due to 30% Wrs + WL + LF
(e) Min. DL + L + I
(f) Equivalent load due to bending.
(g) Allowable stress for Group II (A.A.S.H.O. P.I.4.1) loading.

DESIGNED H.C.M. & J.T.L.
CHECKED J.T.L. & H.C.M.
DRAWN J.T.B.
CHECKED J.T.

TRUSS SPANS
STRESS TABLE - I
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

F A I ROUTE 80
SECTION 99-3E&F-P
Scale:

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

174B-7060

FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB
		CHECKED -	REVISED -		
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -		
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -		SHEET 21 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	969
		CONTRACT NO. 62R23		
		ILLINOIS FED. AID PROJECT		

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3E&F	WILL	65	50
	99-3P		52	38

FED. ROAD DIST. NO. 7 | ILLINOIS | PROJECT

SHEET NO. 58
70 SHEETS

	MEMBER	STRESSES D	L T	L C	I T	I C	D+L+I T	D+L+I C	W(b)	DESIGN STRESS T	DESIGN STRESS C	SECTION SIZE	TYPE	MAT'L	L/r	ALLOWABLE STRESS KSI T	ALLOWABLE STRESS KSI C	AREA REQUIRED GROSS	AREA REQUIRED NET	AREA FURNISHED GROSS	AREA FURNISHED NET
Diagonals	L_0 U_1	-318		155		22		495	-324(f)		642	14WF53 2-15[33.9	D	L.A.	114.1	—	18.38(g)	34.96	—	35.39	—
	U_1 L_2	+195	126		19		340		+9	340		14BP73	A	C	—	18.00	—	—	18.89	21.46	19.43
	L_2 U_3	-72 -60(a)	71	101	21	17	32	190	-9 +13	127	206	14WF38 2-15[33.9	D	C	109.3	18.00	12.01	17.15	7.06	30.97	27.32
	U_3 L_4	-51 -41(a)	78	76	14	23	51	150	-9 +18	126	176	14WF38 2-15[33.9	D	C	109.3	18.00	12.01	14.65	7.00	30.97	27.32
	L_4 U_5	+174	90		27		291		+9	291		14BP73	A	C	-	18.00	—	—	16.17	21.46	19.43
	U_5 L_6	-297		107		32		436	-9		436	14WF43 2-15[40.0	D	C	110.5	—	11.94	36.52	-	36.05	—
	L_6 U_7	+420	127		38		585		+9	585		14WF87	A	L.A.	-	27.00	—	—	21.67	25.56	22.81
	U_7 L_8	-483		138		26		647	-4		647	14WF53 2-15[50.0	D	L.A.	114.3	—	14.69	44.04	—	44.87	—
	L_8 U_9	+583	161		28		772		+4	772		14WF53 2PL 15"×5/8"	B	L.A.	-	27.00	—	—	28.59	34.34	29.21
	U_9 L_{10}	-306		149		21		476	-591(f)		897	2-18[58.0 2PL(15-1)"×3/8"	E	L.A.	81.2	—	22.89(g)	39.22	-	39.96	—
	L_{10} U_{11} U_{25} L_{26}	-422		123		37		582	398(f)		820	2-18[51.9 2PL(15-7)"×3/8"	E	L.A.	79.5	—	23.08(g)	35.55	-	36.36	—
	U_{11} L_{12} L_{24} U_{25}	+715	194		58		967		+28	967		14WF87 2PL 15"×1/2"	B	L.A.	-	27.00	—	—	35.81	40.56	35.81
	L_{12} U_{13} U_{23} L_{24}	-618		172		52		842	-155(f)		842	2-18[38.0 2PL(15-7)"×5/8"	E	L.A.	70.6	-	19.21	43.83	-	43.96	-
	L_{13} U_{14} U_{22} L_{23}	-547		155		22		724	-386(f)		933	2-18[58.0 2PL(15-7)"×3/8"	E	L.A.	73.7	-	23.70(g)	39.40	—	39.96	—
	U_{14} L_{15} L_{21} U_{22}	+425	126		19		570		-66	570		14WF87	A	L.A.	-	27.00	—	—	21.11	25.56	22.81
	L_{15} U_{16} U_{20} L_{21}	-304		101		17		422	+47		422	14WF43 2-15[40.0	D	C	110.5	—	11.94	35.34	—	36.05	--
	U_{16} L_{17} L_{19} U_{20}	+183	78		14		275		-28	275		14BP73	A	C	-	18.00	—	—	15.28	21.46	19.43
	L_{17} U_{18} U_{18} L_{19}	-61		58		12		131	+10		131	14WF38 2-15[33.9	D	C	109.3	—	12.01	10.90	—	30.97	—
	L_{26} U_{27}	-283		131		21		435	-501(f)		784	2-18[51.9 2PL(15-7)"×3/8"	E	L.A.	83.1	-	22.66(g)	34.60	-	36.36	—
	U_{27} L_{28}	+533	149		28		710		+6	710		14WF53 2PL 15"×1/2"	B	L.A.	--	27.00	—	—	26.30	30.59	25.96
	L_{28} U_{29}	-421		124		28		573	-7		573	14WF53 2-15[40.0	D	L.A.	115.9	—	14.47	39.60	—	38.99	—
	U_{29} L_{30}	+350	114		30		494		+11	494		14WF103	A	C	—	18.00	—	—	27.44	30.26	27.01
	L_{30} U_{31}	-217		94		27		338	-11		338	14WF38 2-15[33.9	D	C	111.1	—	11.92	28.36	-	30.97	—
	U_{31} L_{32}	+85 +69(a)	83	78	25	15	193	24	+11 -9(d)	206	123	14WF38 2-15[33.9	D	C	111.1	18.00	11.92	10.32	11.44	30.97	27.32
	L_{32} U_{33}	+48 +40(a)	105	78	18	23	171	61	+11 -13	202	147	14WF38 2-15[33.9	D	C	111.1	18.00	11.92	12.33	11.22	30.97	27.32
	U_{33} L_{34}	-180		135		21		336	-342(f)		527	14WF38 2-15[33.9	D	L.A.	111.1	-	18.86(g)	27.92	—	30.97	—
Hangers	U_{13} L_{13} U_{23} L_{23}	+557	155		47		759			759		14WF53 2PL 15"×5/8"	B	L.A.	-	27.00	—	—	28.11	34.34	29.21
	others (Max.)	+108	71		21		200			200		14WF61	A	C	—	18.00	—	—	11.11	17.94	15.37
Posts	U_{10} L_{10} U_{26} L_{26}	-792		211		63		1066	-37		1066	2-18[58.0, 2PL(15-7)×3/8", 2PL 18"×5/8"	F	L.A.	95.8	—	16.86	63.23	-	62.46	—
	U_8 L_8 U_{12} L_{12} U_{28} L_{28} U_{24} L_{24}				(Nominal Member)							14WF87	A	C	121.6	—			-	25.56	—
	Others				(Nominal Member)							14BP73	A	C	120.3	—			-	21.46	—

Note:
For Nomenclature and Types of Members, See Sh. 57

TRUSS SPANS
STRESS TABLE-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

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

DESIGNED	H.C.M. & J.T.L.
CHECKED	J.T.L. & H.C.M.
DRAWN	J.T.B.
CHECKED	J.T.L.

1746-7061

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '/" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

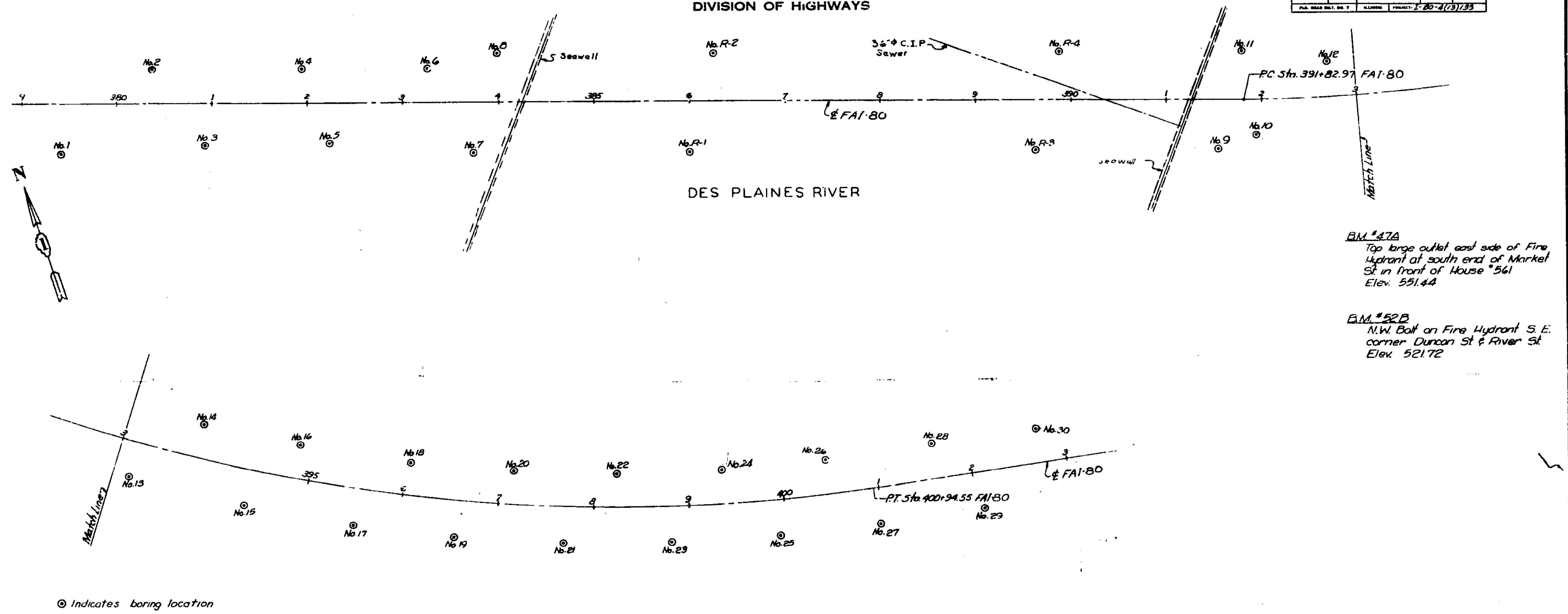
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	970

CONTRACT NO. 62R23
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	99-38	WILL	71	22

SHEET NO. 3
42 SHEETS
PROJECT I-80-4(13)133



BM #47A
Top large outlet east side of Fire Hydrant at south end of Market St in front of House #561
Elev. 551.44

BM #52B
N.W. Bolt on Fire Hydrant S.E. corner Duncan St & River St
Elev. 521.72

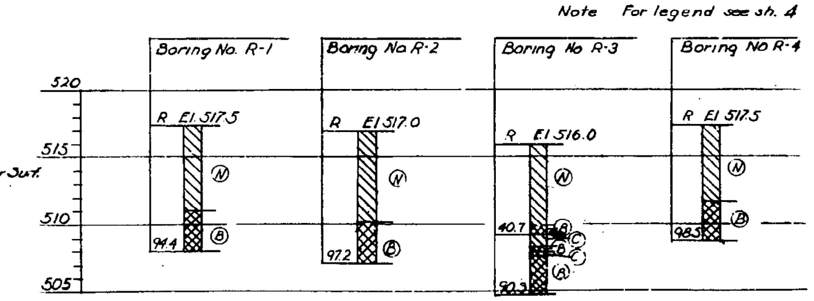
⊙ Indicates boring location

Boring No.	℄ FAI-80 Station	℄ FAI-80 Offset		Surf. Elev.
1	379+31.0	54'	R	548.6
2	380+36.1	38'	L	545.9
3	380+93.0	38'	R	542.0
4	380+96.0	38'	L	537.2
5	382+23.5	38'	R	535.8
6	383+26.0	38'	L	534.3
7	383+74.0	54'	R	537.9
8	383+99.0	54'	L	533.0
9	391+55.0	54'	R	516.1
10	391+95.0	38'	R	516.7
11	391+82.0	54'	L	516.0
12	392+72.0	38'	L	517.6
13	393+10.0	38'	R	517.9
14	393+79.0	38'	L	517.6
15	394+40.0	38'	R	518.0

Boring No.	℄ FAI-80 Station	℄ FAI-80 Offset		Surf. Elev.
16	394+85.0	38'	L	517.9
17	395+33.0	38'	R	519.1
18	396+06.0	38'	L	518.9
19	396+61.0	38'	R	519.7
20	370+16.0	38'	L	519.8
21	370+71.0	38'	R	520.6
22	380+26.0	38'	L	520.0
23	380+81.0	38'	R	521.5
24	399+36.0	38'	L	520.8
25	399+91.0	38'	R	523.0
26	400+46.0	38'	L	522.6
27	400+95.0	38'	R	528.3
28	401+63.0	38'	L	528.4
29	402+07.0	38'	R	528.3
30	402+88.0	38'	L	524.0
R-1	383+00.0	54'	R	539.0
R-2	386+25.0	54'	L	539.0
R-3	389+63.0	54'	R	539.0
R-4	389+88.0	54'	L	539.0

Water Surf. Elev

River Borings
Note For legend see sh. 4



DESIGNED	H.C.M.
CHECKED	H.S.N.
DRAWN	F.A.
CHECKED	H.B.

BORING LAYOUT & RIVER BORINGS
FAI-80 OVER DES PLAINES RIVER
STA 387+94 50
FAI ROUTE 80
SECTION 99-38
PROJECT I-80-4(13)133
WILL COUNTY
Scale: No Scale
Date: Jan 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

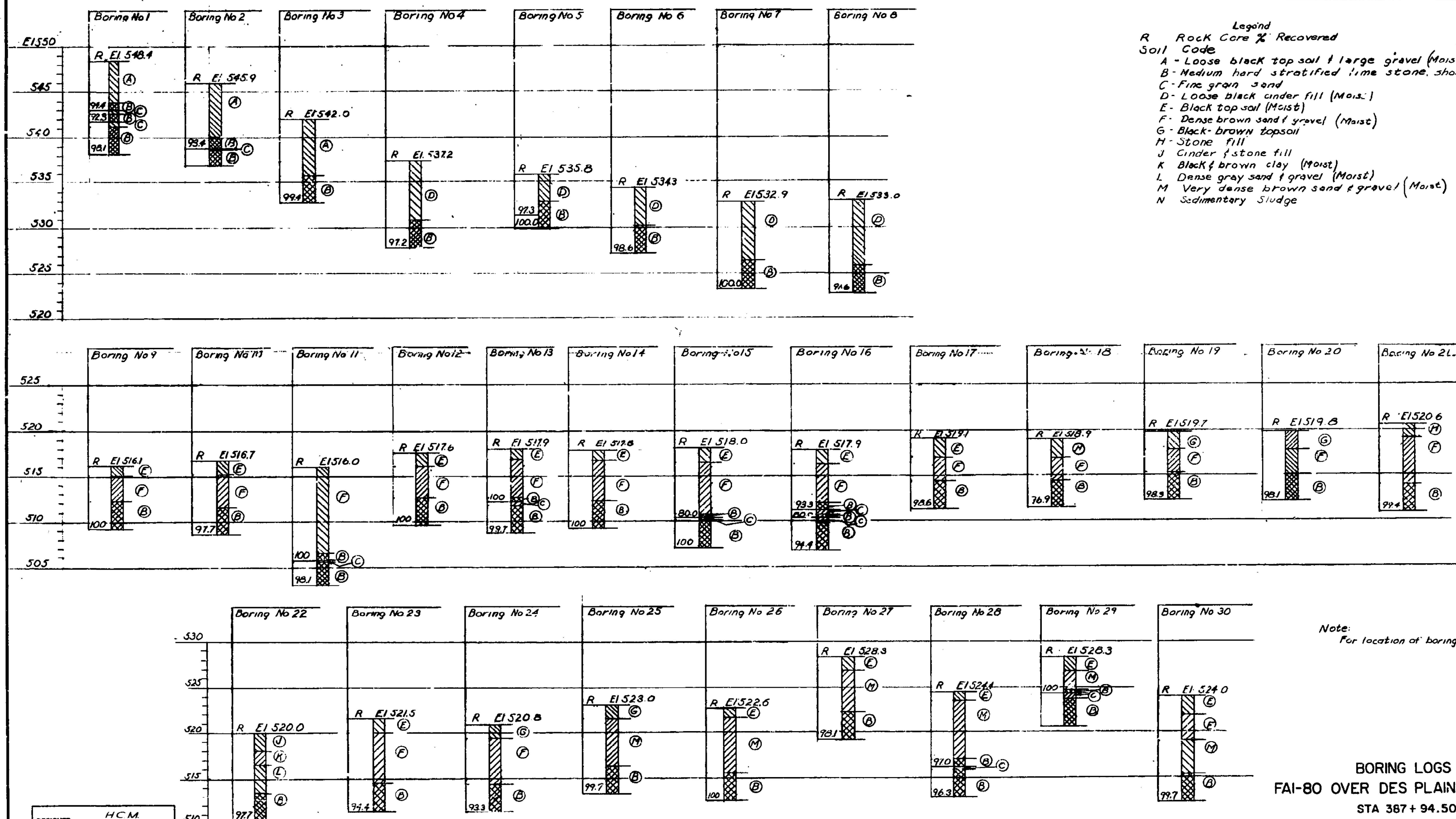
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3B	WILL	71	23

SHEET NO. 4
42 SHEETS



Legend
R Rock Core % Recovered
Soil Code
A - Loose black top soil & large gravel (Moist)
B - Medium hard stratified lime stone, shown thus
C - Fine grain sand
D - Loose black cinder fill (Moist)
E - Black top soil (Moist)
F - Dense brown sand & gravel (Moist)
G - Black-brown topsoil
H - Stone fill
J - Cinder & stone fill
K - Black & brown clay (Moist)
L - Dense gray sand & gravel (Moist)
M - Very dense brown sand & gravel (Moist)
N - Sedimentary Sludge

Note:
For location of borings see sh. 3

DESIGNED	H.C.M.
CHECKED	H.S.N.
DRAWN	J.P.S.
CHECKED	H.C.M.

BORING LOGS
FAI-80 OVER DES PLAINES RIVER
STA 367+94.50
F.A.I. ROUTE 80 PROJECT I-80-4(13)133
SECTION 99-3B WILL COUNTY
Scale: No Scale Date: Jan 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
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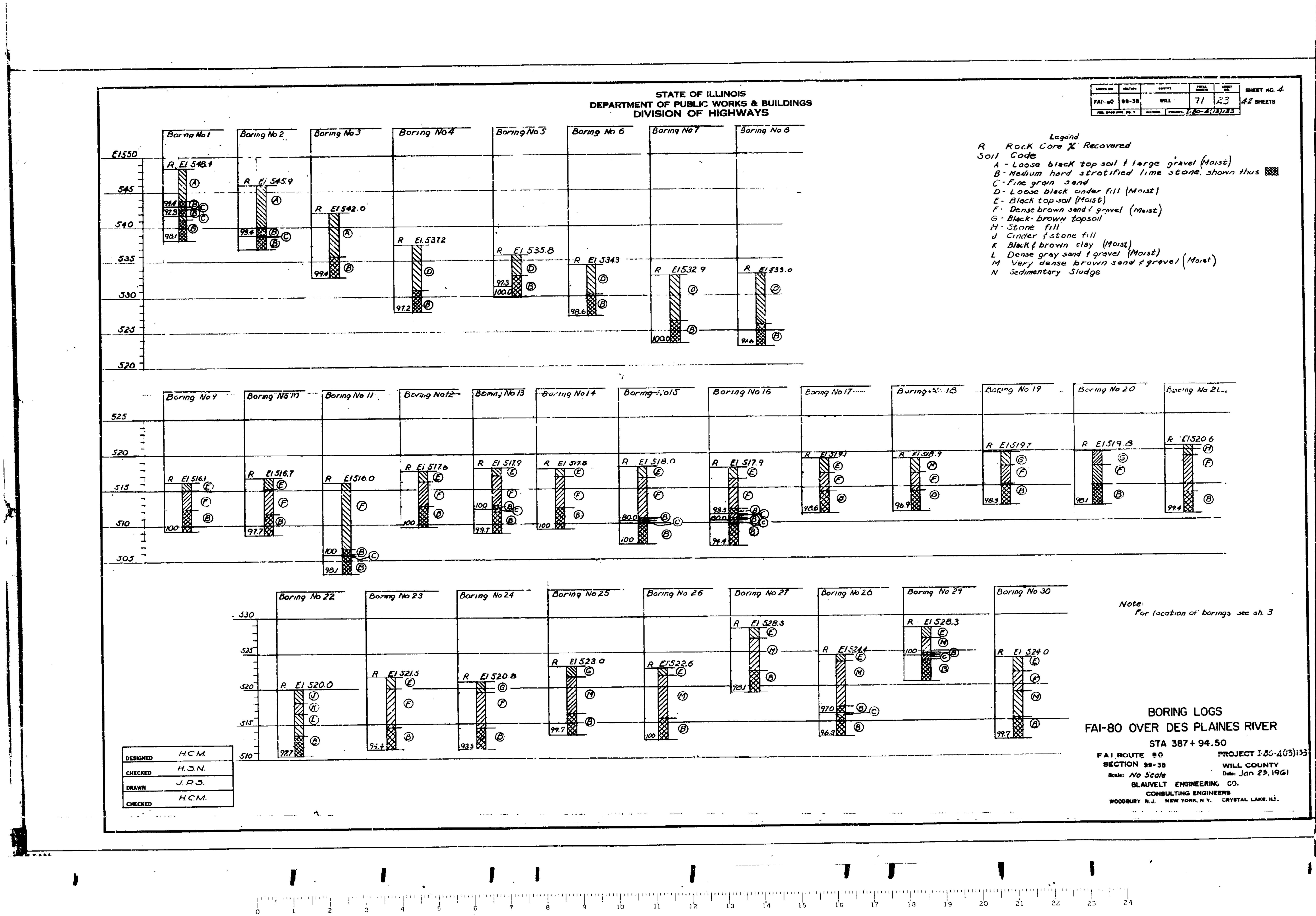
PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 24 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	972
		CONTRACT NO. 62R23		
	ILLINOIS	FED. AID PROJECT		



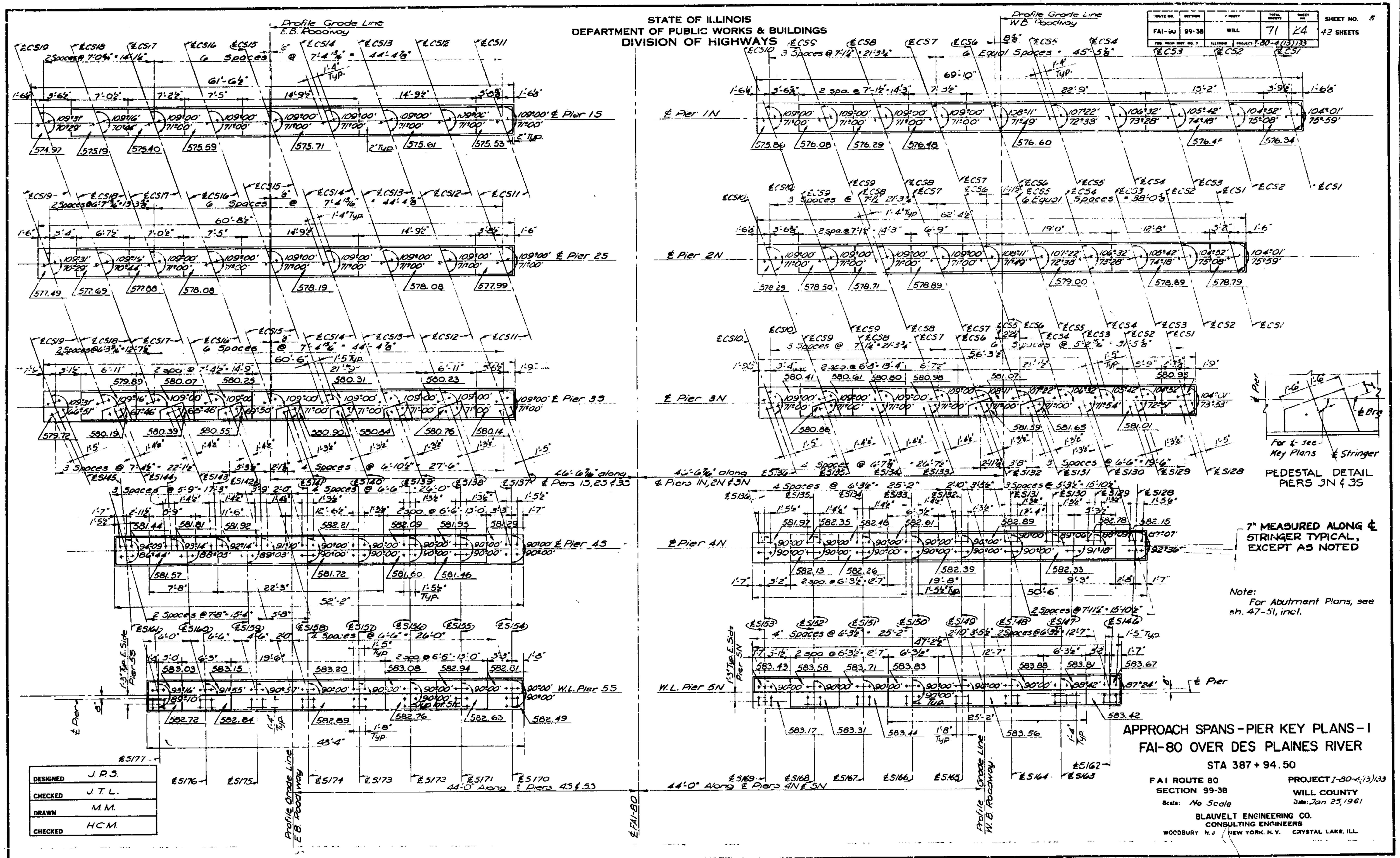
FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = 0:2 '' / in.	DRAWN -	REVISED -	
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 25 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	973
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



FOR INFORMATION ONLY

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

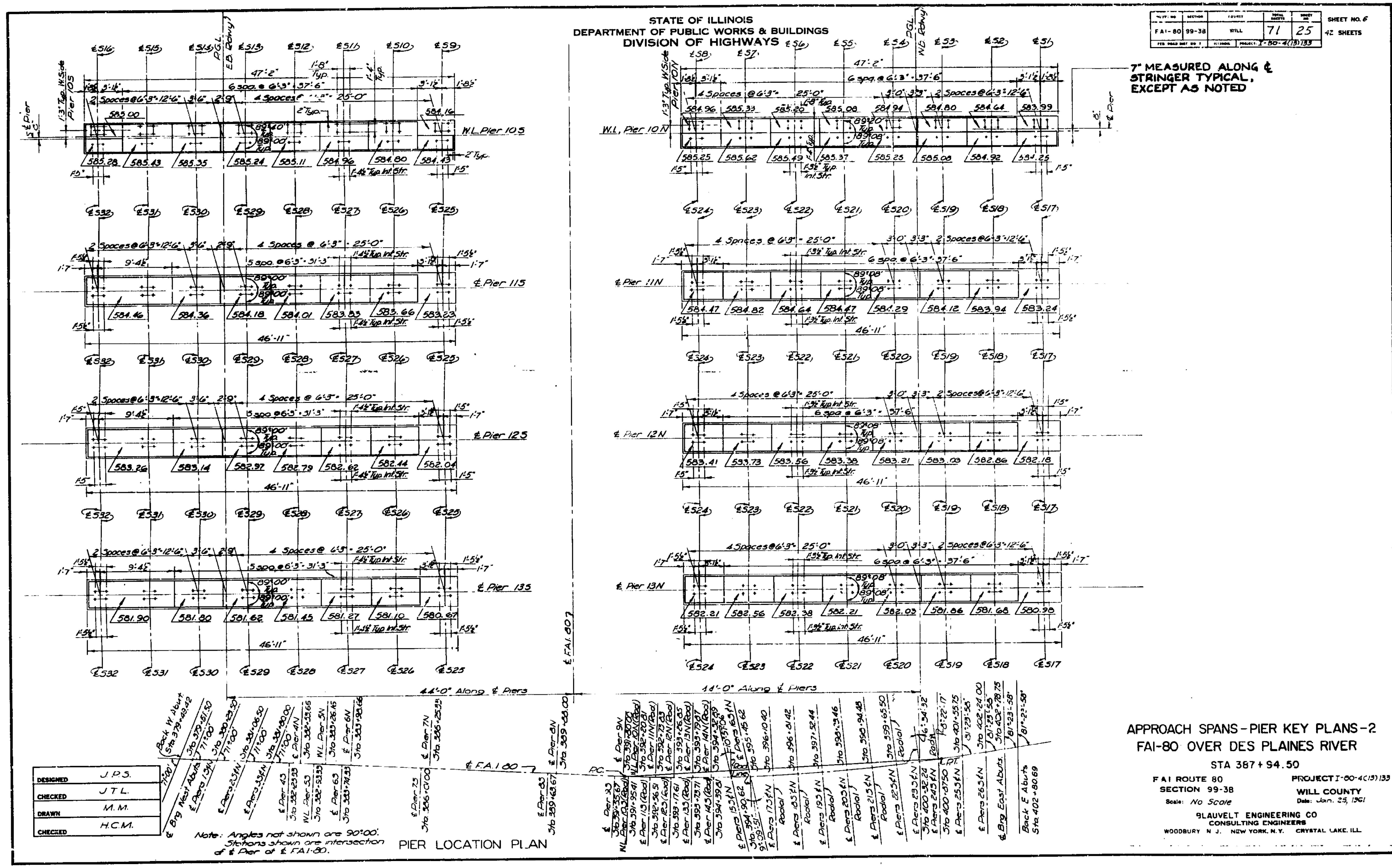
USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '/" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 26 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	974
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



FOR INFORMATION ONLY

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

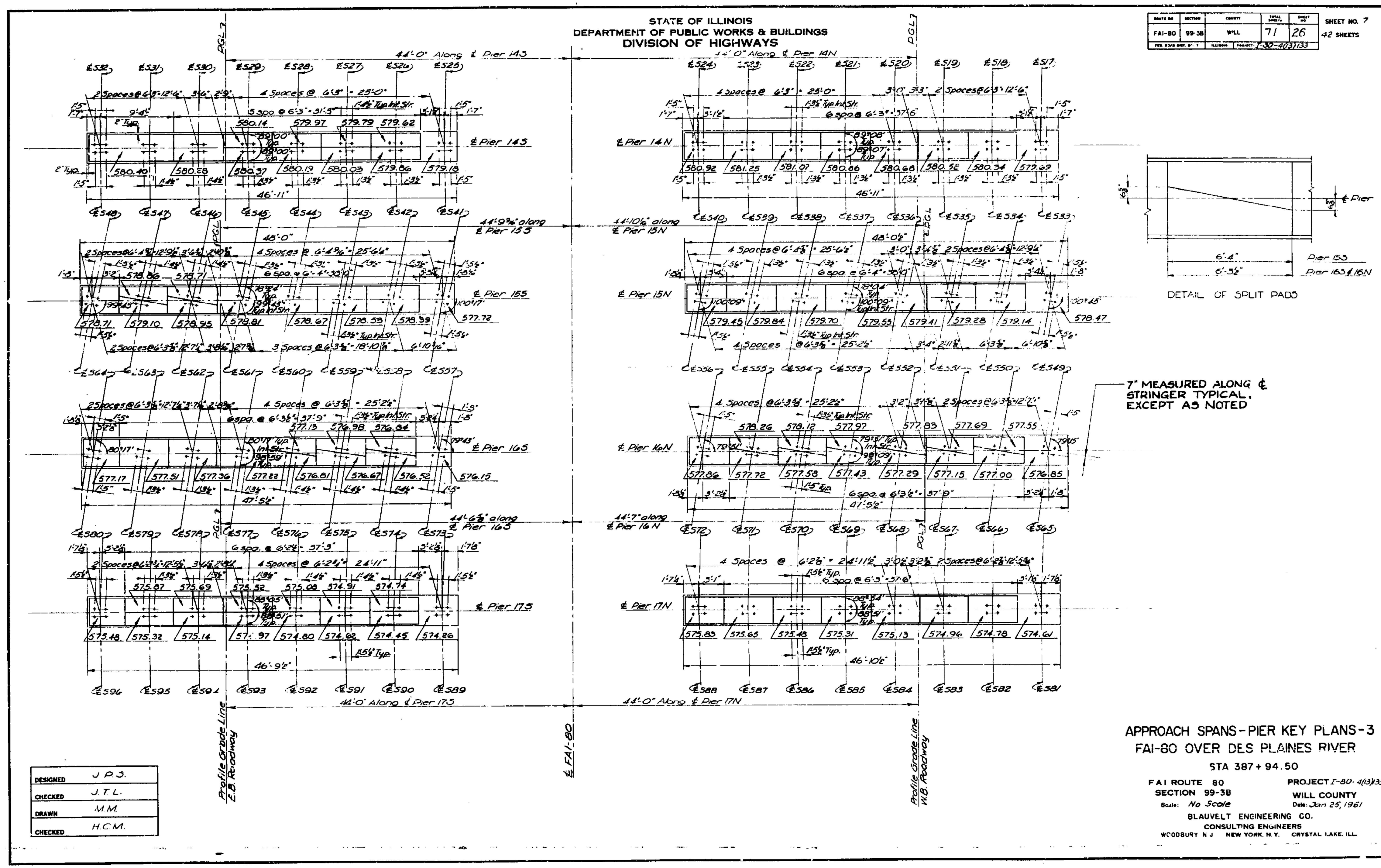
SHEET 27 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	975

CONTRACT NO. 62R23

ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CHI401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing27.dgn



FOR INFORMATION ONLY

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		CHECKED -	REVISED -
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -

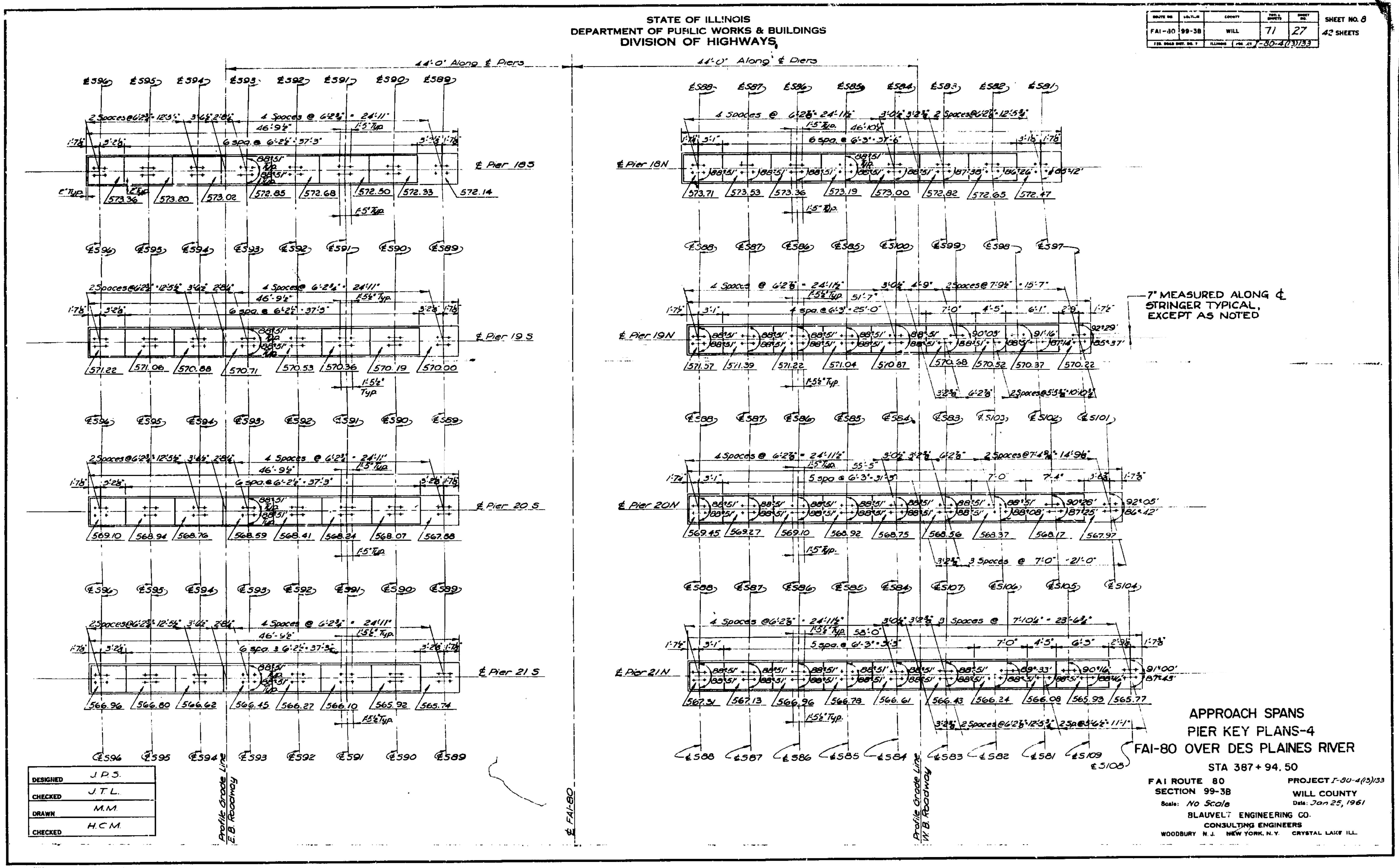
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 28 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	976
		CONTRACT NO. 62R23		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing28.dgn



FOR INFORMATION ONLY

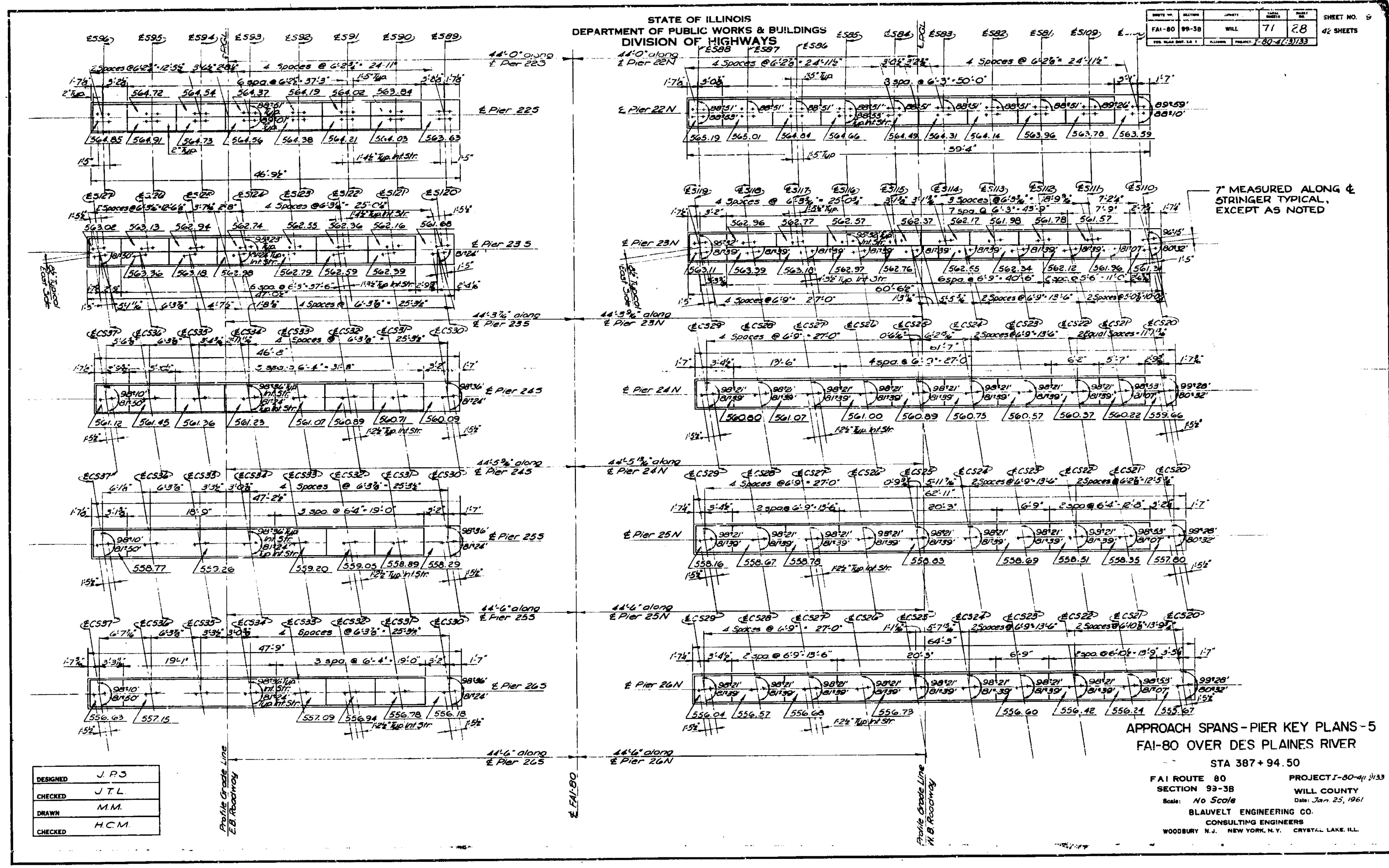
WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -	
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 29 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	977
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing29.dgn



FOR INFORMATION ONLY

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

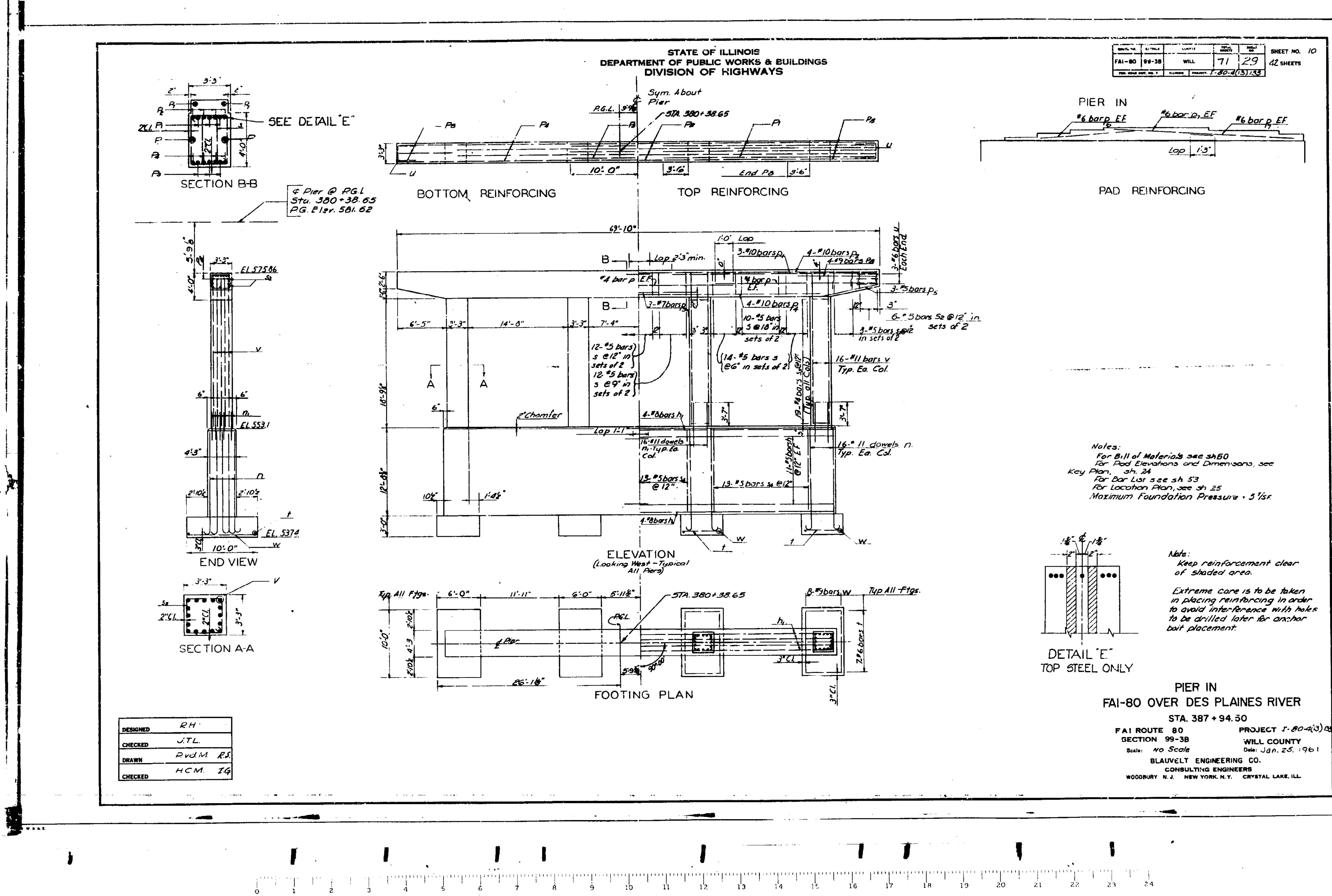
USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '' / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 30 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	978
		CONTRACT NO. 62R23		
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 '/" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

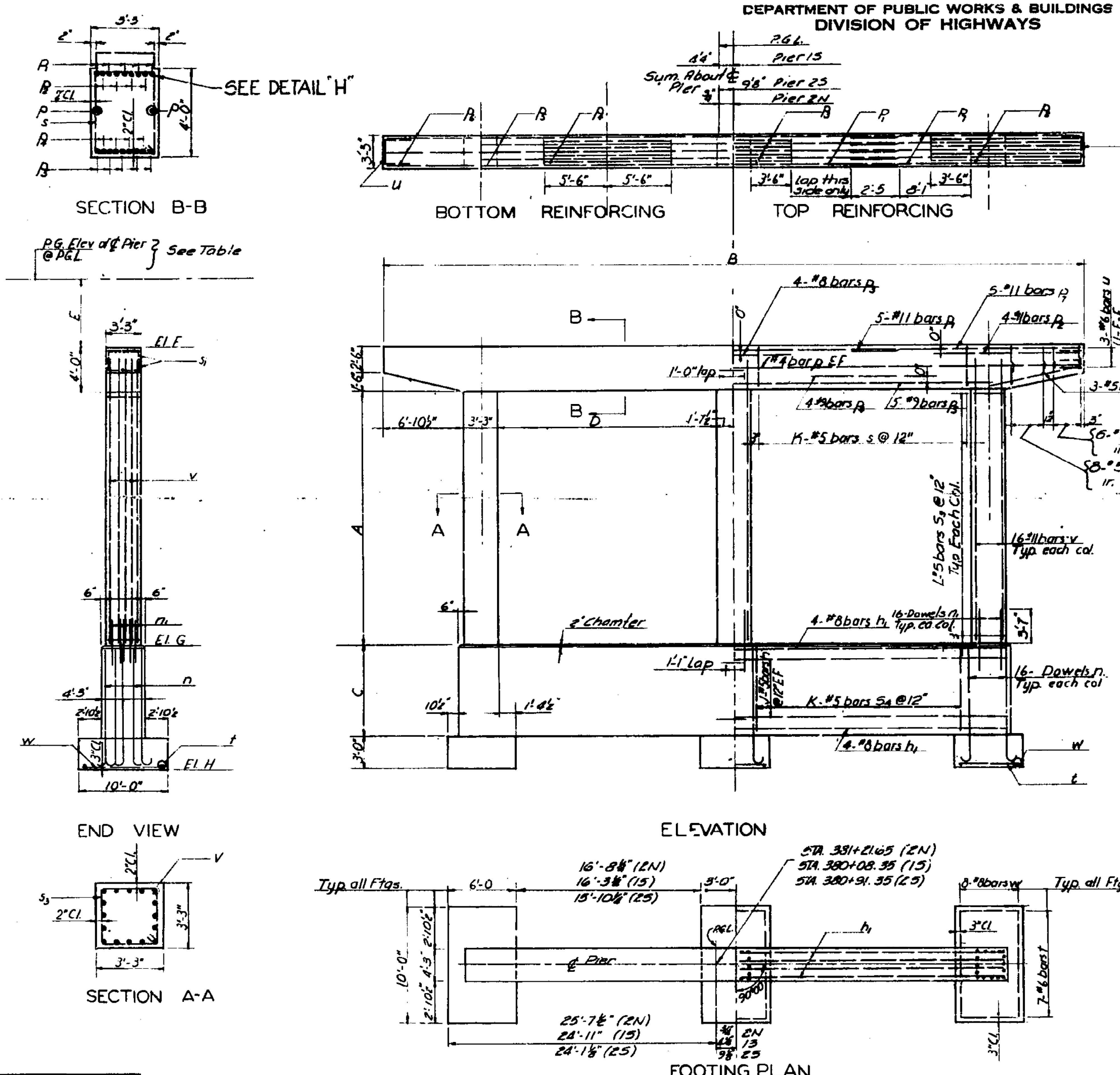
SHEET 31 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	979
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

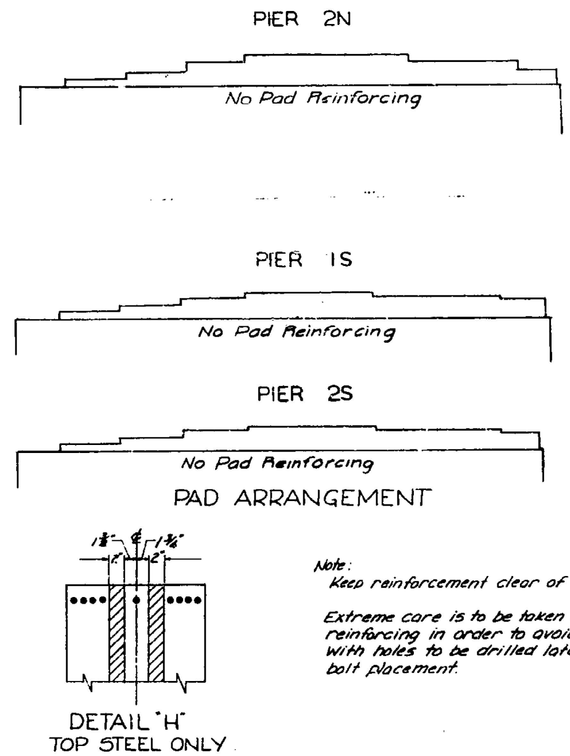
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3B	WILL	71	30
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT I-80-4(13)133		

SHEET NO. 11
42 SHEETS



Pier No.	Dimensions					Elevations			no. of bars			Station ℄ Pier @ P.G.L.	P.G. Elev.
	A	B	C	D	E	F	G	H	J	K	L		
2N	21'-1⅝"	62'-4½"	17'-1¼"	19'-5¼"	5'-0⅛"	570.29	553.30	533.2	16	18	21	381 + 21.65	583.99
1S	17'-9⅝"	61'-6½"	12'-7¾"	19'-0¼"	5'-9"	574.97	553.15	537.5	11	18	18	380 + 08.35	580.72
2S	20'-1⅝"	60'-8½"	15'-7¼"	18'-7¼"	5'-8"	577.49	553.40	534.8	14	17	20	380 + 91.35	583.16



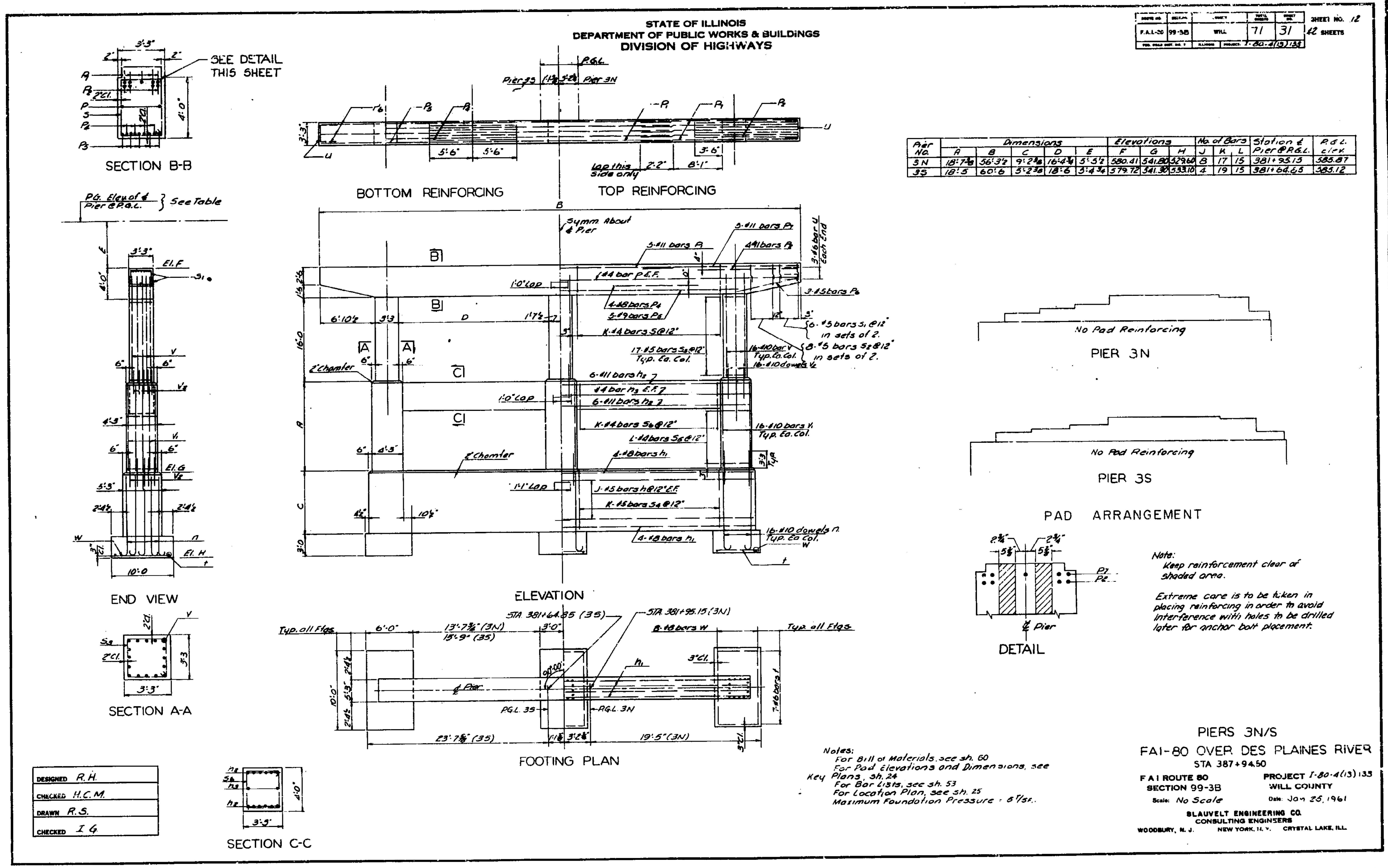
Note:
Keep reinforcement clear of shaded area.
Extreme care is to be taken in placing reinforcing in order to avoid interference with holes to be drilled later for anchor bolt placement.

Notes:
For Bill of Materials see sh. 60
For Pad Elevations and Dimensions, see Key Plans, sh. 24
For Bar Lists, see sh. 53
For Location Plan, see sh. 25
Maximum Foundation Pressure = 5 T/SF.

DESIGNED R. H.	
CHECKED H.C.M.	
DRAWN P.v.d.M.	R.S.
CHECKED H.C.M.	I.G.

PIERS 1S & 2N/S
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50
FAI ROUTE 80 PROJECT I-80-4(13)133
SECTION 99-3B WILL COUNTY
Scale: No Scale Date: Jan. 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



Pier No.	Dimensions					Elevations			No. of Bars			Station ℄ Pier @ P.G.L.	P.G.L. elev.
	A	B	C	D	E	F	G	H	J	K	L		
3N	18'-7 3/8	56'-3 1/2	9'-2 3/8	16'-4 1/4	5'-5 1/2	580.41	541.80	529.60	8	17	15	381+95.15	585.87
3S	18'-5	60'-6	5'-2 3/8	18'-6	3'-4 3/4	579.72	541.30	533.10	4	19	15	381+64.65	585.12

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -
PLOT DATE = 11/5/2025	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

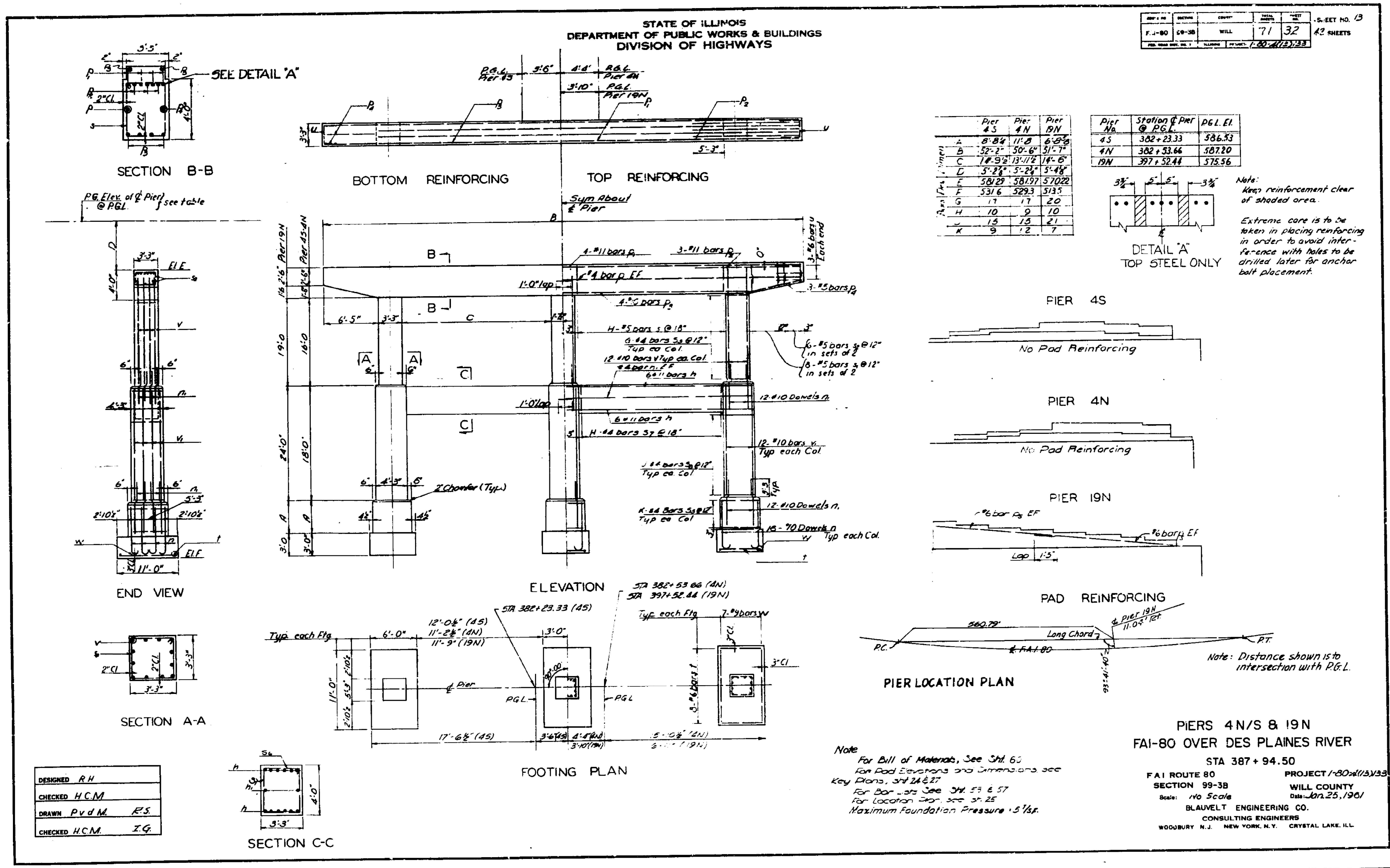
EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 33 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	981

CONTRACT NO. 62R23
ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CHI401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing33.dgn



FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 0:2 ½" / in.	DRAWN -	REVISED -
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 34 OF 87 SHEETS

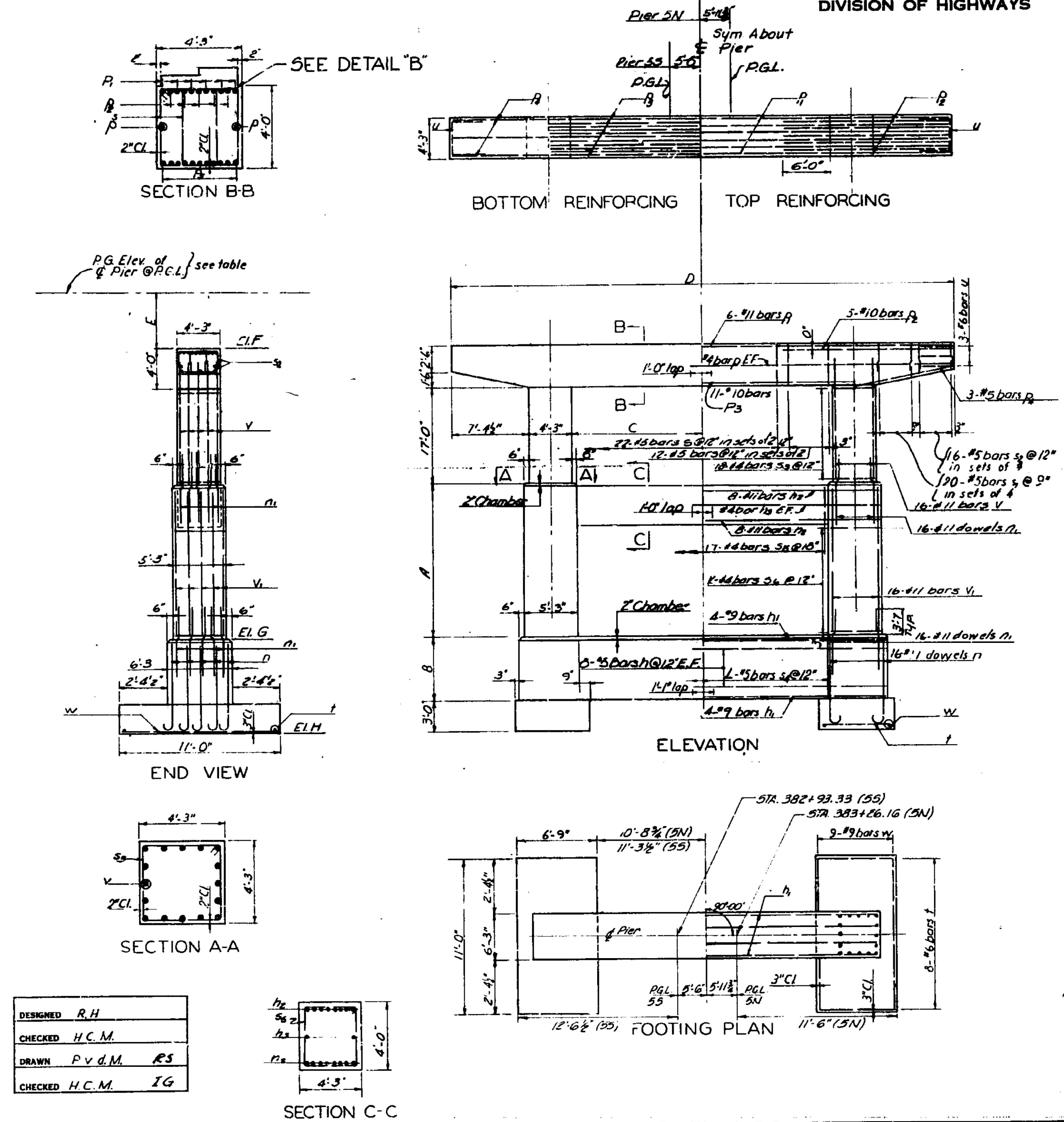
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	982

CONTRACT NO. 62R23

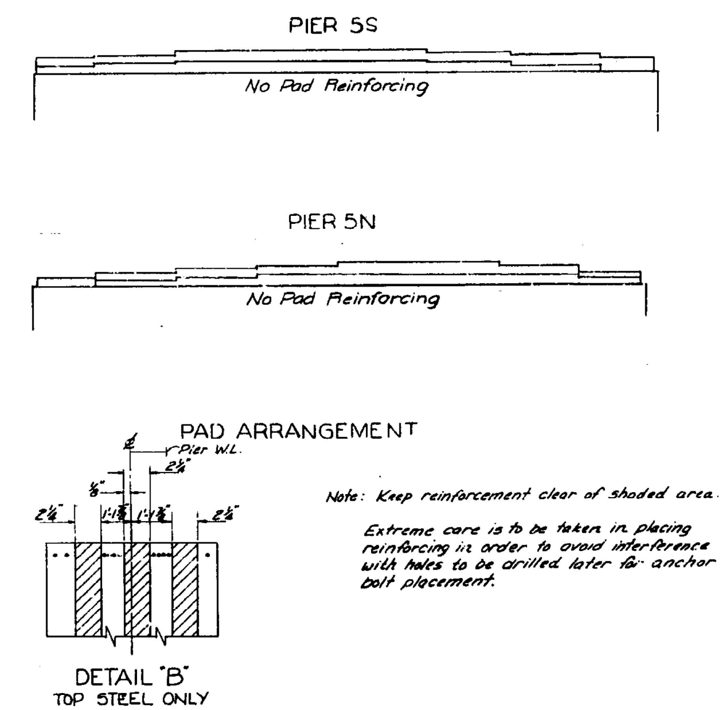
ILLINOIS | FED. AID PROJECT

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

FAI-80 | 99-3B | WILL | 71 | 33 | SHEET NO. 14 | 42 SHEETS | PROJECT I-80-4(13)133



	Dimensions					Elevations			Bars		Station WL Pier @ PGL	PG Elev.
	A	B	C	D	E	F	G	H	K	L		
Pier No 5 N	21'-2"	9'-0"	11'-11½"	47'-2½"	5'-5⅞"	583.17	541.0	529.0	18	24	383+26.16	588.66
Pier No 5 S	20'-5⅞"	9'-3⅞"	12'-6½"	48'-4"	5'-6½"	582.49	541.0	528.7	17	25	382+93.33	588.03



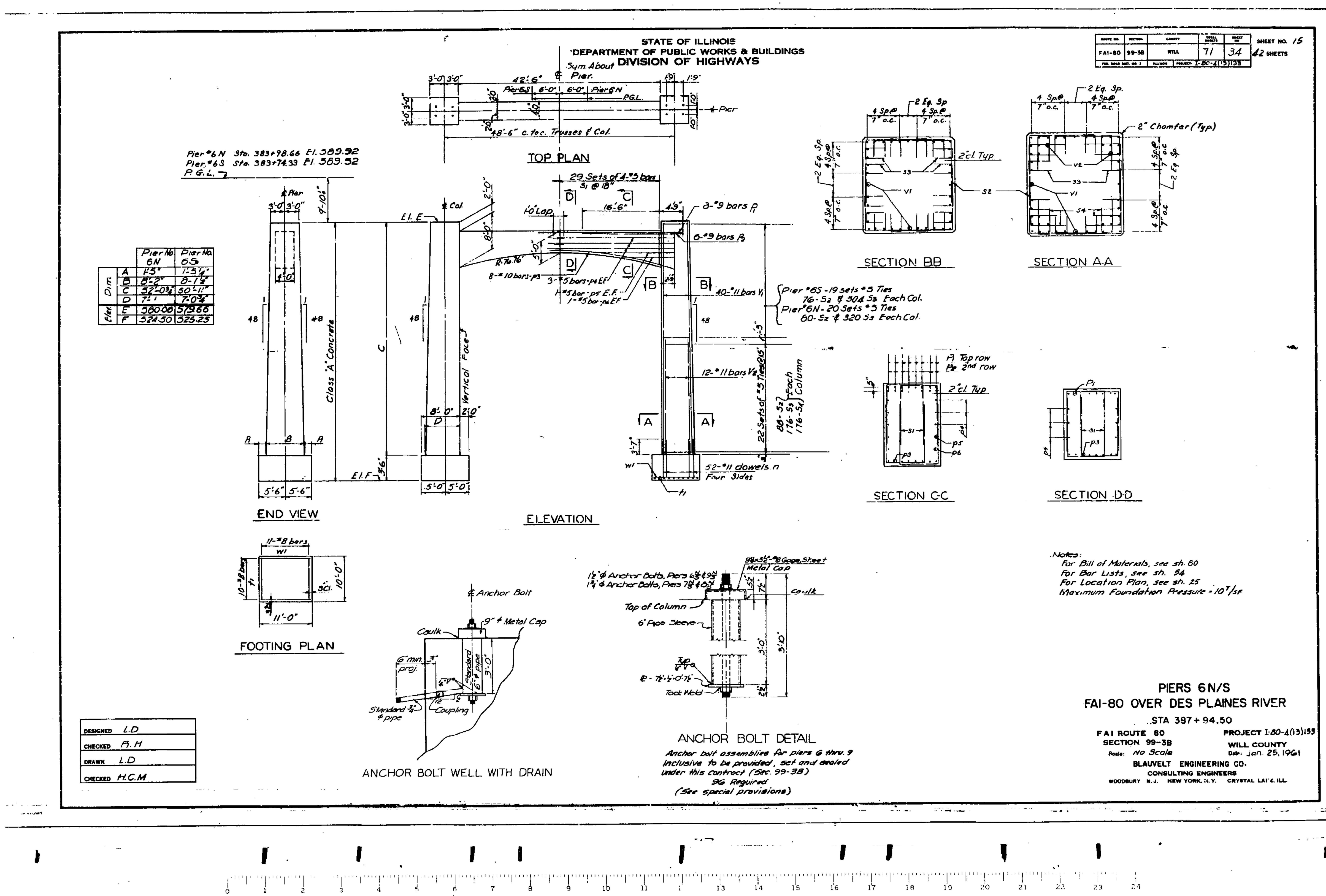
Note: Keep reinforcement clear of shaded area.
Extreme care is to be taken in placing reinforcing in order to avoid interference with holes to be drilled later for anchor bolt placement.

Notes:
For Bill of Materials See Sht. 60
For Pad Elevations and Dimensions, see Key Plans, sht. 24
For Bar Lists, See Sht. 54
For Location Plan, see sht. 25
Maximum Foundation Pressure: 5 T/SF.

DESIGNED	R.H.
CHECKED	H.C.M.
DRAWN	P.v.d.M. RS
CHECKED	H.C.M. IG

PIERS 5 N/S
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50
FAI ROUTE 80 — PROJECT I-80-4(13)133
SECTION 99-3B — WILL COUNTY
Scale: No Scale — Date: Jan. 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

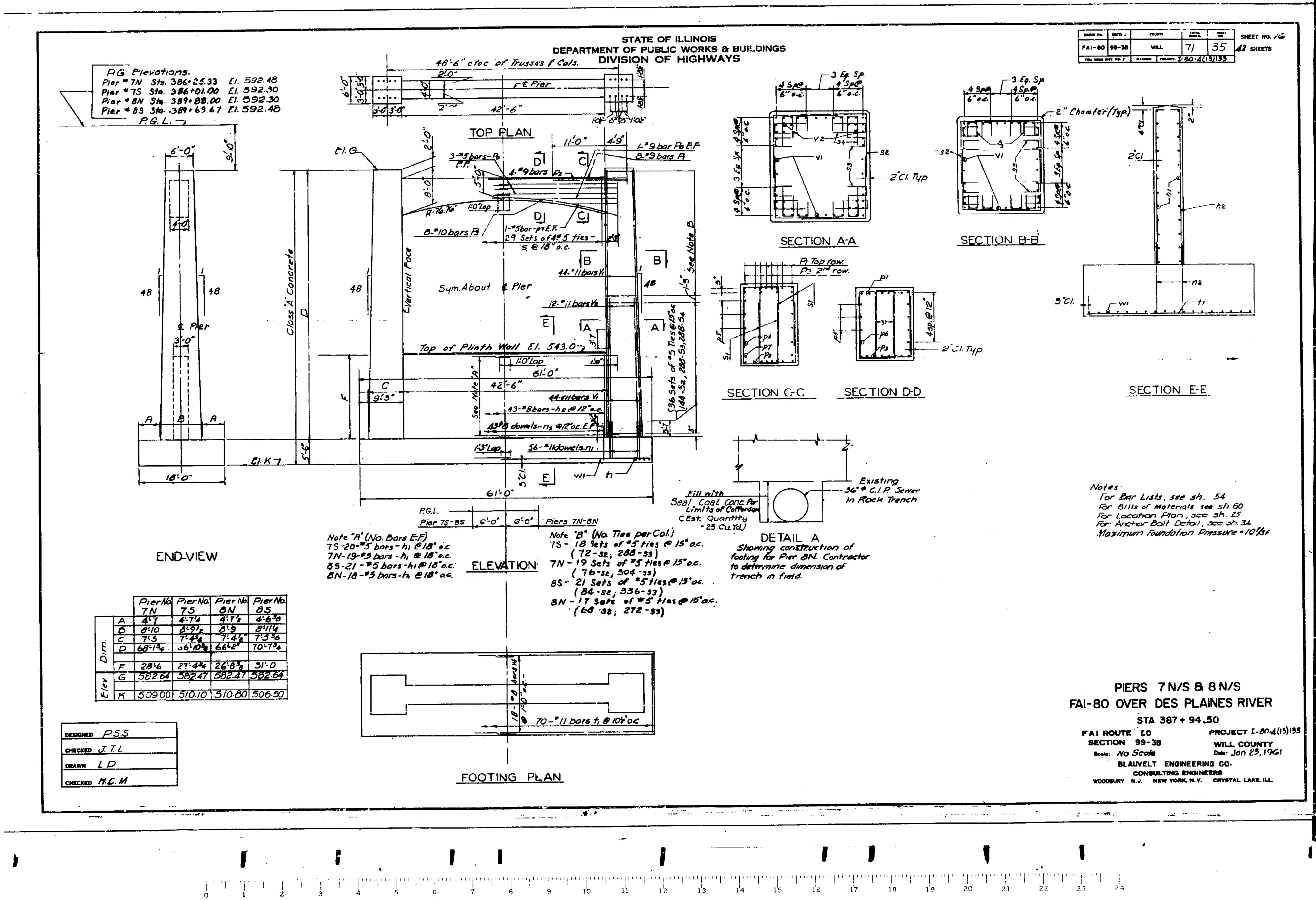


		Pier No 6N	Pier No 6S
Dim.	A	1'-5"	1'-5 1/4"
	B	8'-2"	8'-1 1/2"
	C	52'-0 3/4"	50'-1"
	D	7'-1	7'-0 3/4"
Elev.	E	580.00	579.66
	F	524.50	525.25

FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB	F.A.I RTE. 80 / SECTION FAI 80 21 STRUCTURE 2 / COUNTY WILL / TOTAL SHEETS 1230 / SHEET NO. 984
		CHECKED -	REVISED -			CONTRACT NO. 62R23
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -			
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -		SHEET 36 OF 87 SHEETS	ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing36.dgn



		Pier No. 7N	Pier No. 7S	Pier No. 8N	Pier No. 8S
Dim.	A	4'-7	4'-7¼	4'-7½	4'-6⅜
	B	8'-10	8'-9½	8'-9	8'-11¼
	C	7'-5	7'-4¾	7'-4½"	7'-5⅜
	D	68'-1¾	66'-10⅝	66'-2"	70'-7¾
	F	28'-6	27'-4¾	26'-8⅝	31'-0
Elev.	G	582.64	582.47	582.47	582.64
	K	509.00	510.10	510.80	506.50

FOR INFORMATION ONLY

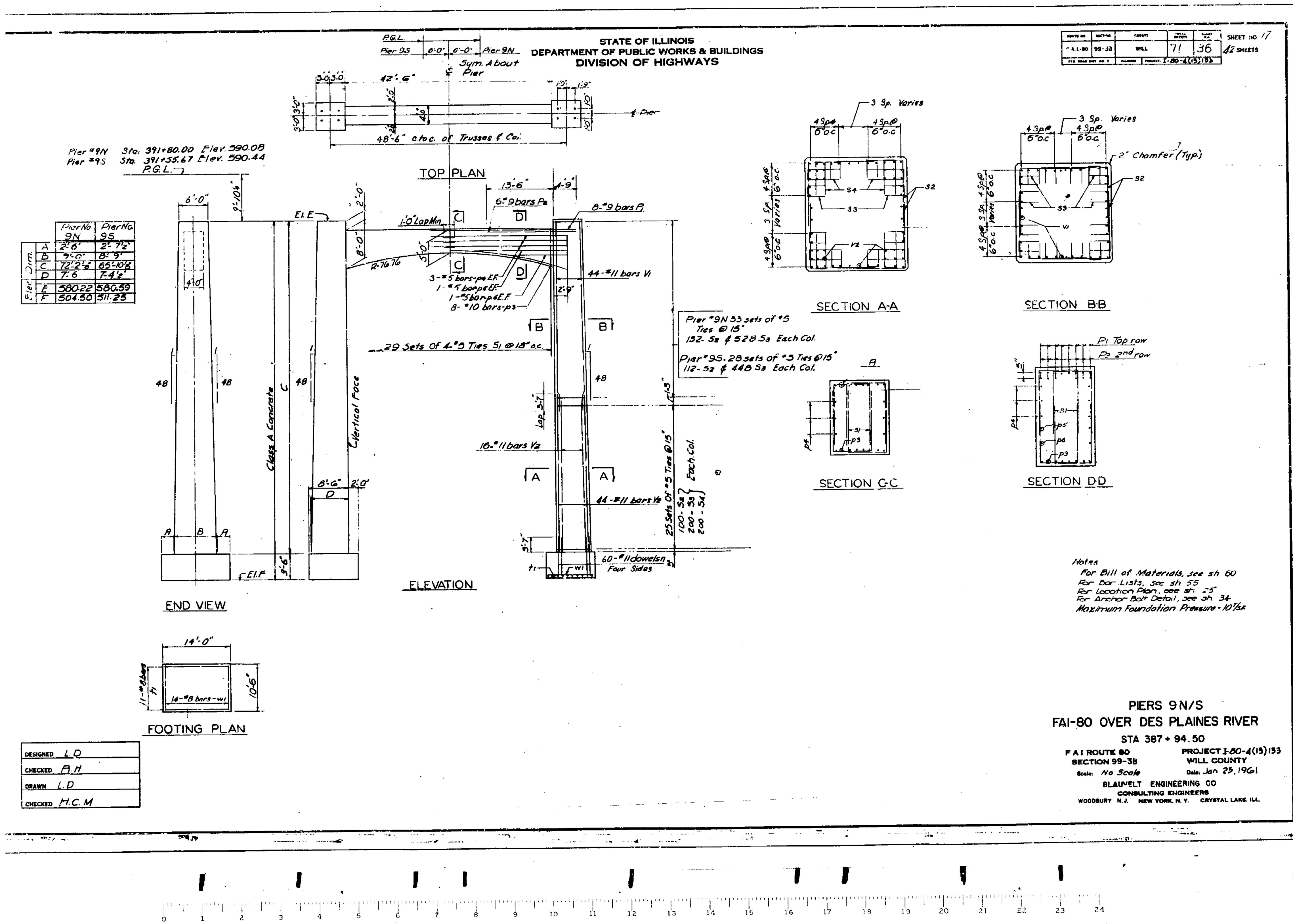
WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	
		CHECKED -	REVISED -	
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -	
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB
SHEET 37 OF 87 SHEETS

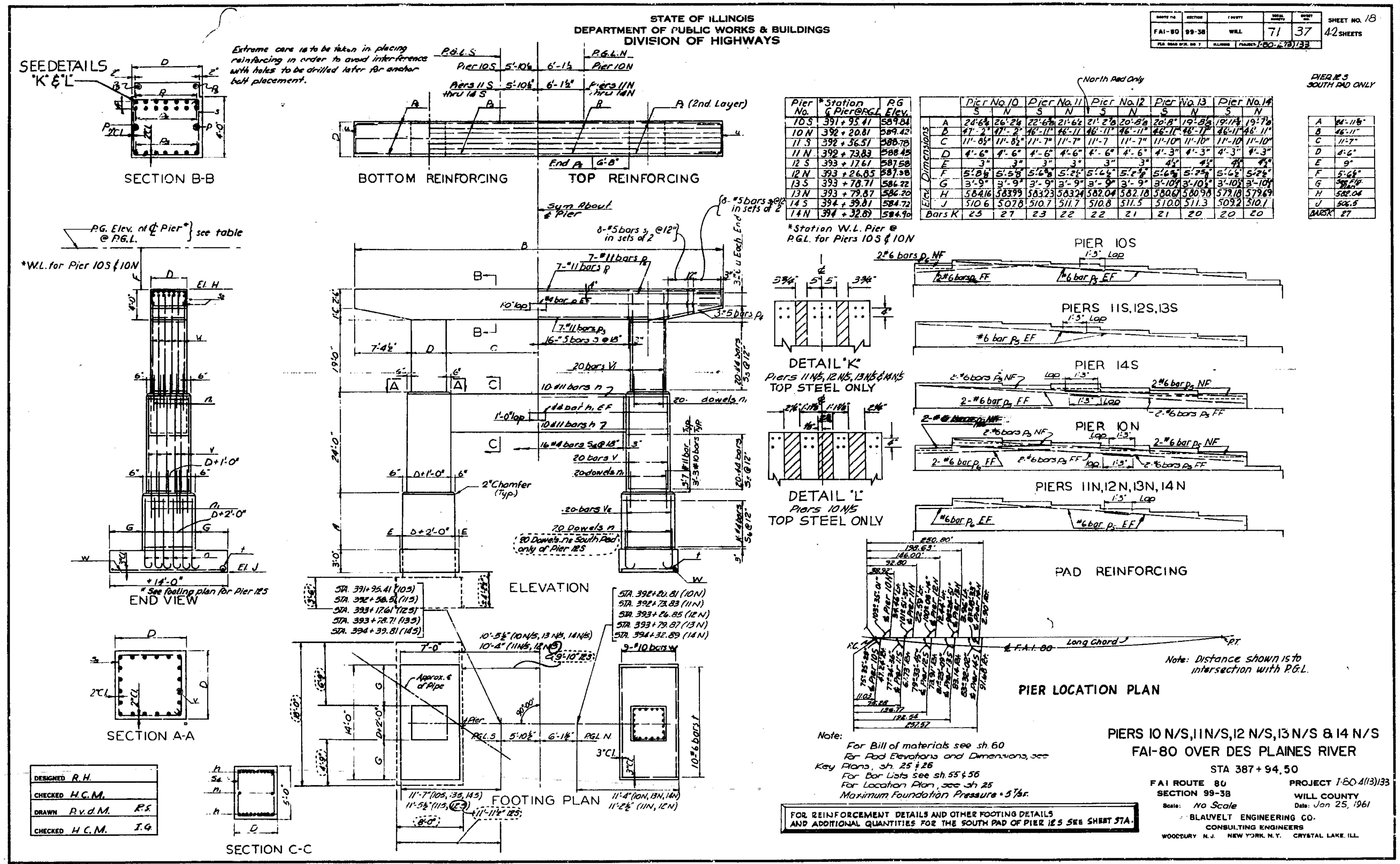
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	985
		CONTRACT NO. 62R23		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing37.dgn



		Pier No 9N	Pier No 9S
Dim.	A	2'-6"	2'-7½"
	B	9'-0"	8'-9"
	C	72'-2⅝"	65'-10⅝"
	D	7'-6	7'-4½"
Elev.	E	580.22	580.59
	F	504.50	511.23

FOR INFORMATION ONLY



Pier No.	*Station ℄ Pier @ P.G.L.	P.G Elev.
10 S	391 + 95.41	589.84
10 N	392 + 20.81	589.42
11 S	392 + 56.51	588.78
11 N	392 + 73.83	588.45
12 S	393 + 17.61	587.58
12 N	393 + 26.85	587.38
13 S	393 + 78.71	586.22
13 N	393 + 79.87	586.20
14 S	394 + 39.81	584.72
14 N	394 + 32.89	584.90

*Station W.L. Pier @ P.G.L. for Piers 10S & 10N

		Pier No.10		Pier No.11		Pier No.12		Pier No.13		Pier No.14	
		S	N	S	N	S	N	S	N	S	N
Dimensions	A	24'-6¾	26'-2¼	22'-6⅝	21'-6½	21'-2⅞	20'-8⅛	20'-8"	19'-8⅛	19'-11¼	19'-7⅞
	B	47'-2"	47'-2"	46'-11"	46'-11	46'-11"	46'-11"	46'-11"	46'-11"	46'-11"	46'-11"
	C	11'-8½"	11'-8½"	11'-7"	11'-7"	11'-7	11'-7"	11'-10"	11'-10"	11'-10	11'-10"
	D	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-3"	4'-3"	4'-3"	4'-3"
	E	3"	3"	3"	3"	3"	3"	4½"	4½"	4½"	4½"
	F	5'-8⅛	5'-5⅞	5'-6⅝	5'-2½	5'-6½"	5'-2⅜	5'-6⅝	5'-2⅝	5'-6½	5'-2½"
	G	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-10½	3'-10½"	3'-10½	3'-10½
Elev.	H	584.16	583.99	583.23	583.24	582.04	582.18	580.67	580.98	579.18	579.69
	J	510.6	507.8	510.7	511.7	510.8	511.5	510.0	511.3	509.2	510.1
Bars K		25	27	23	22	22	21	21	20	20	20

PIER 12 S SOUTH PAD ONLY

A	24'-11⅛"
B	46'-11"
C	11'-7"
D	4'-6"
E	9"
F	5'-6½"
G	See Ftg. Plan
H	582.04
J	506.5
BARS K	27

STA. 391+95.41 (10S)
STA. 392+56.51 (11S)
STA. 393+17.61 (12S)
STA. 393+78.71 (13S)
STA. 394+39.81 (14S)

STA. 392+20.81 (10N)
STA. 392+73.83 (11N)
STA. 393+26.85 (12N)
STA. 393+79.87 (13N)
STA. 394+32.89 (14N)

Note:
For Bill of materials see sh. 60
For Pad Elevations and Dimensions, see Key Plans, sh. 25 & 26
For Bar Lists see sh. 55 & 56
For Location Plan, see sh. 25
Maximum Foundation Pressure = 5 T/sf.

FOR REINFORCEMENT DETAILS AND OTHER FOOTING DETAILS AND ADDITIONAL QUANTITIES FOR THE SOUTH PAD OF PIER 12S SEE SHEET 37A.

DESIGNED	R.H.	
CHECKED	H.C.M.	
DRAWN	R.v.d.M.	R.S.
CHECKED	H.C.M.	I.G.

PIERS 10 N/S, 11 N/S, 12 N/S, 13 N/S & 14 N/S
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50
FAI ROUTE 80 — PROJECT I-80-4(73)133
SECTION 99-38 — WILL COUNTY
Scale: No Scale — Date: Jan 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK N.Y. CRYSTAL LAKE, ILL.

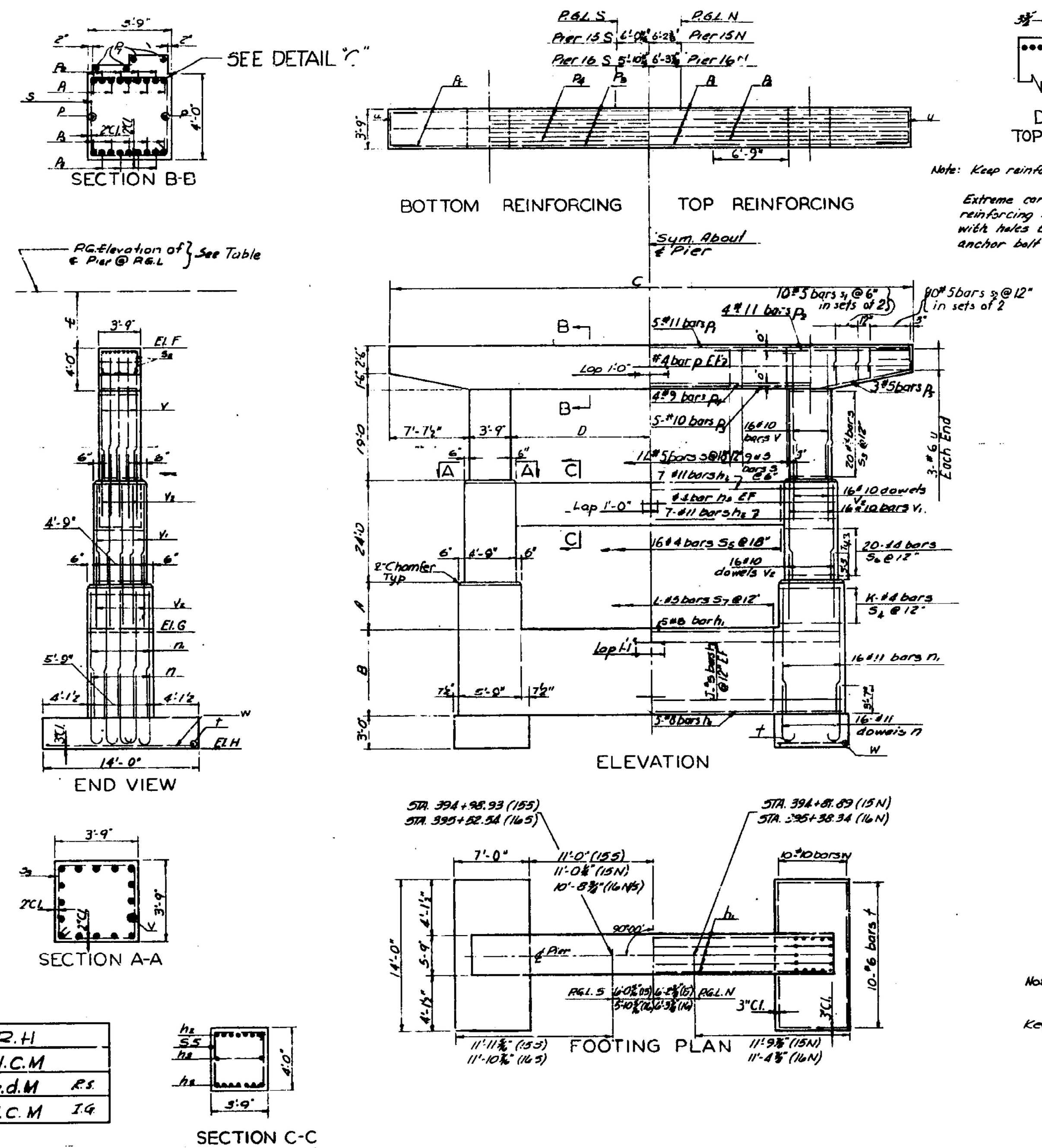
Revision 1-30-63 South pad of pier 12S revised W.C.K.

FOR INFORMATION ONLY

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

FAI-80	99-38	WILL	71	38
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT I-80-4(13)123		

SHEET NO. 19
42 SHEETS

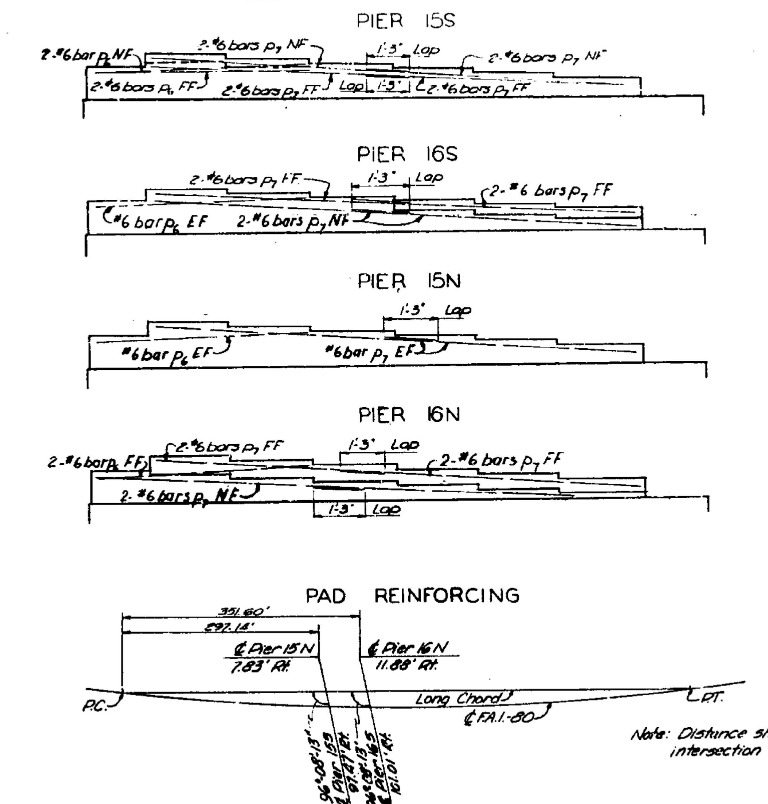


Note: Keep reinforcement clear of shaded area.

Extreme care is to be taken in placing reinforcing in order to avoid interference with holes to be drilled later for anchor bolt placement.

		Pier No 15		Pier No 16	
		S	N	S	N
Dimen.	A	10'-2⅝"	11'-11⅝"	8'-7¾"	10'-4¼"
	B	6'-2⅜"	7'-6"	4'-1¼"	5'-3⅜"
	C	48'-0"	48'-0½"	47'-5½"	47'-5½"
	D	12'-7½"	12'-7¾"	12'-4¼"	12'-4¼"
	E	5'-4⅞"	5'-1½"	5'-4⅞"	5'-1½"
Elev.	F	577.72	578.47	576.15	576.85
	G	520.5	519.5	520.5	519.5
	H	511.3	509.0	513.4	511.2
Bars	J	5	6	3	4
	K	11	13	9	11
	L	23	23	22	22

Pier No.	Station ℄ Pier @ P.G.L.	P.G.L. Elev.
15 S	394+98.93	583.13
15 N	394+81.89	583.60
16 S	395+02.54	581.56
16 N	395+38.34	581.98



Note: Distance shown is to intersection with P.G.L.

PIER LOCATION PLAN

Note:
For Bills of materials see sh.60
For Pad Elevations and Dimensions, see Key Plans, sh. 26.
For Bar Lists see sh. 56
For Location Plan, see sh 25
Maximum Foundation Pressure = 5T/sf.

DESIGNED	R.H	
CHECKED	H.C.M	
DRAWN	P.v.d.M	R.S.
CHECKED	H.C.M	I.G

PIERS 15 N/S & 16 N/S
FAI-80 OVER DES PLAINES RIVER
STA. 387 + 94.50
FAI ROUTE 80 — PROJECT I-80-4(13)123
SECTION 99-38 — WILL COUNTY
Scale: No Scale — Date: Jan. 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY

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

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ' / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

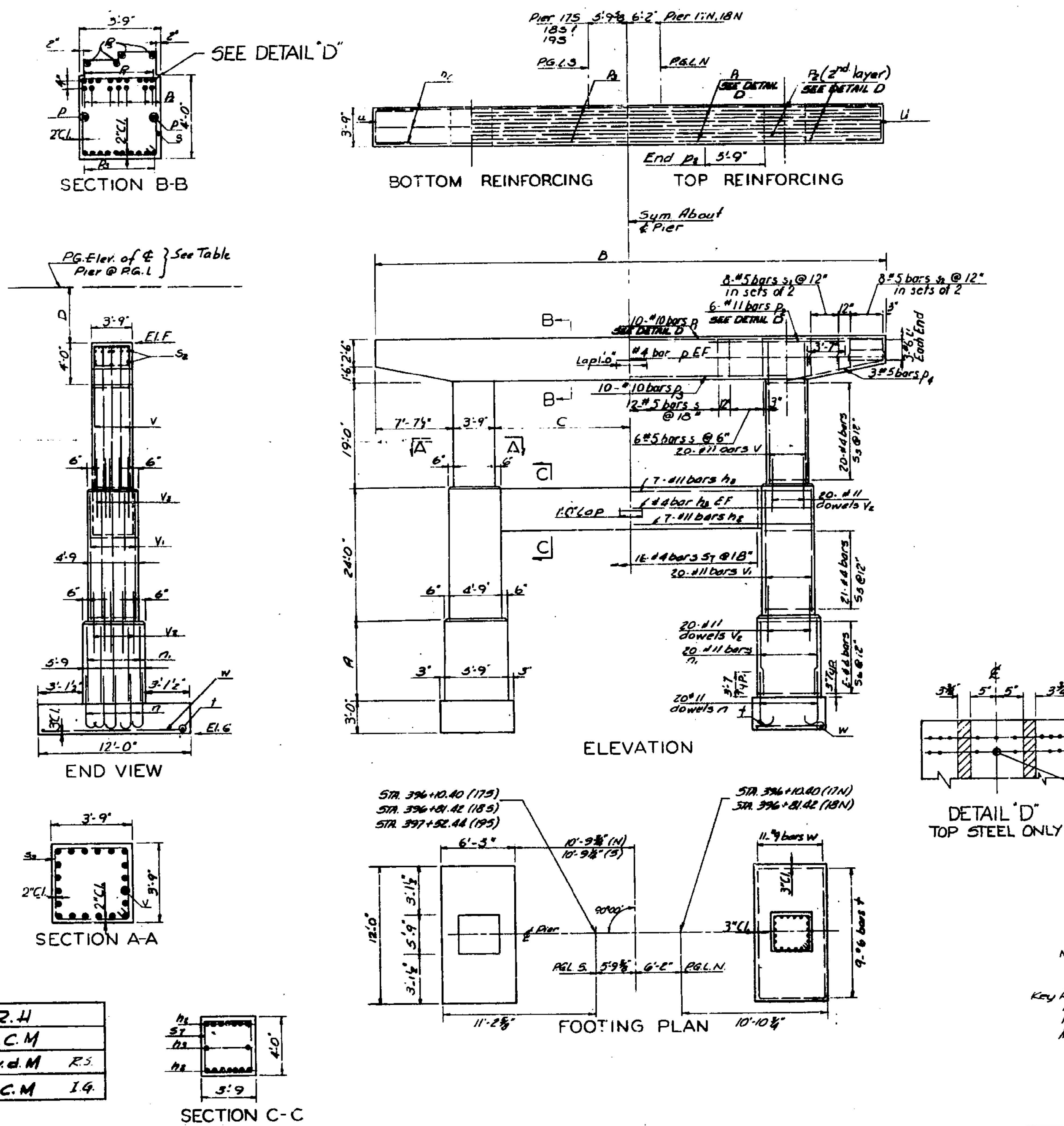
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	988
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-RB-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing40.dgn

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

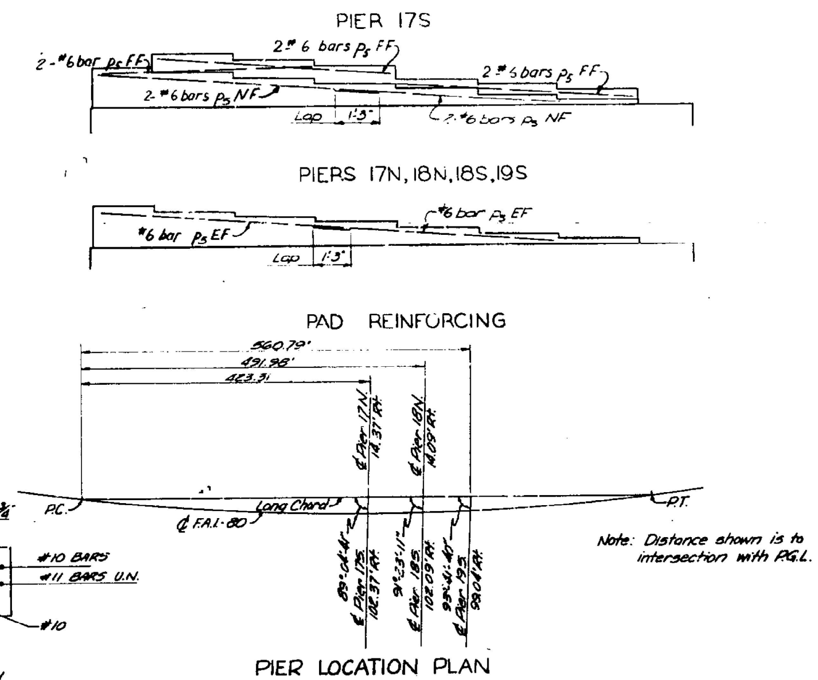
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3B	WILL	71	39
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT I-80-4(13)33		

SHEET NO. 20
42 SHEETS



		Pier No. 17		Pier No. 18		Pier No 19	
		S	N	S	N	S	
Dimen.	A	10'-3 3/8"	11'-1 3/8"	8'-1 3/8"	8'-5 3/8"	7'-0"	
	B	46'-9 1/2"	46'-10 1/2"	46'-9 1/2"	46'-10 1/2"	46'-9 1/2"	
	C	12'-0 1/4"	12'-0 3/4"	12'-0 1/4"	12'-0 3/4"	12'-0 1/4"	
	D	5'-6 3/4"	5'-7 1/4"	5'-6 5/8"	5'-7 3/8"	6'-6 3/4"	
Bars E		11	12	9	9	8	
Elev.	F	574.26	574.61	572.14	572.47	570.00	
	G	514.0	513.5	514.0	514.0	513.0	

Pier No.	Station ℄ Pier @ P.G.L	P.G Elev.
17S	396+10.40	579.82
17N	396+10.40	579.82
18S	396+81.42	577.69
18N	396+81.42	577.69
19S	397+52.44	575.56



Note: Keep reinforcement free of shaded area.

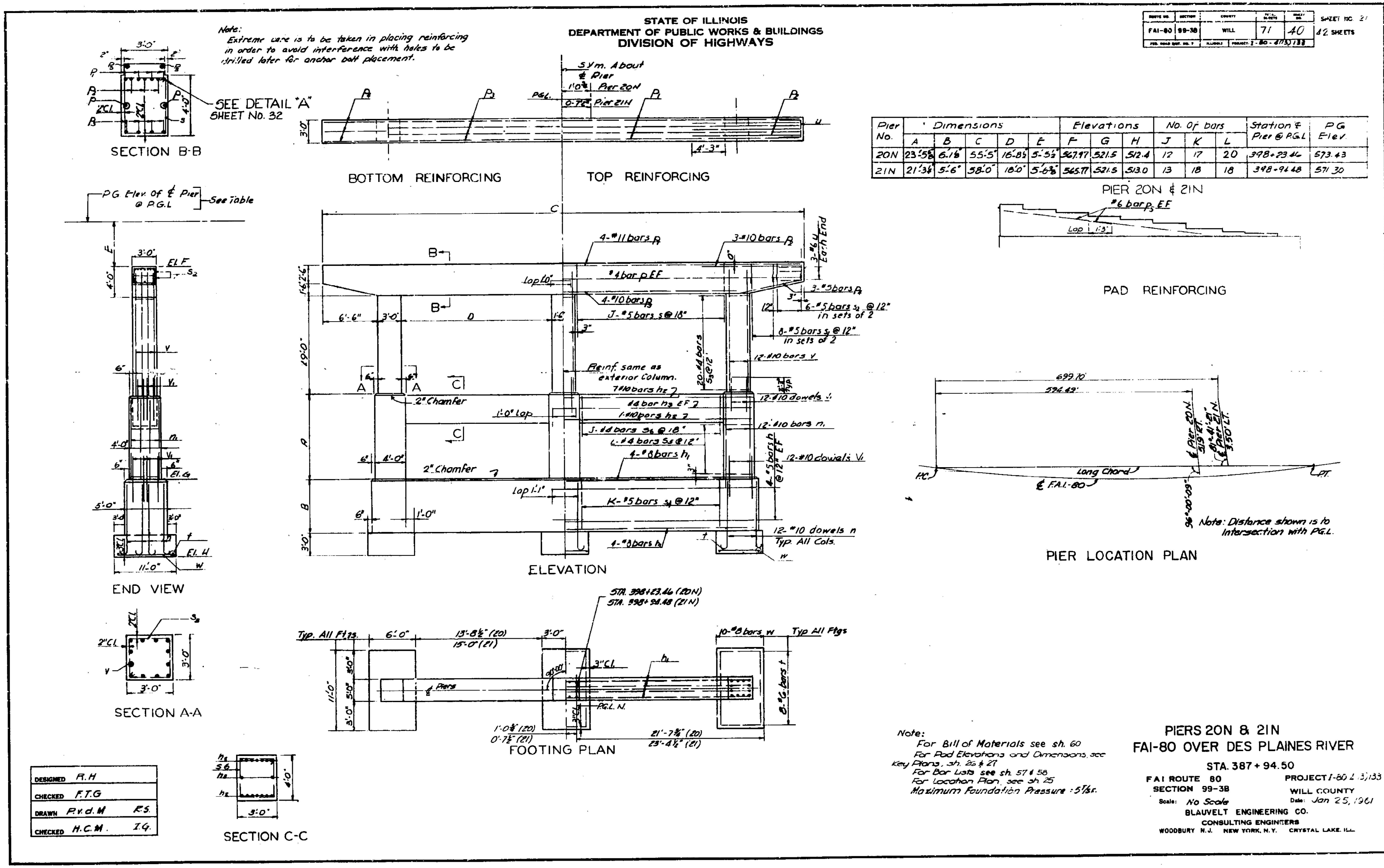
Extreme care is to be taken in placing reinforcing in order to avoid interference with holes to be drilled later for anchor bolt placement.

Notes:
For Bill of Materials, see sh. 60
For Pad Elevations and Dimensions, see Key Plans, sh. 26 & 27.
For Bar Lists, see sh 57
For Location Plan, see sh 25
Maximum Foundation Pressure - 5 T/SF

DESIGNED	R.H
CHECKED	H.C.M
DRAWN	P.v.d.M R.S.
CHECKED	H.C.M I.G.

PIERS 17 N/S, 18 N/S, & 19 S
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50
FAI ROUTE 80 PROJECT I-80-4(13)33
SECTION 99-3B WILL COUNTY
Scale: No Scale Date: Jan 25, 1961
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

FOR INFORMATION ONLY



Pier No.	Dimensions					Elevations			No. Of bars			Station ℄ Pier @ P.G.L	PG Elev.
	A	B	C	D	E	F	G	H	J	K	L		
20N	23'-5⅝"	6'-1⅛"	55'-5"	16'-8½"	5'-5½"	567.97	521.5	512.4	12	17	20	398+23.46	573.43
21N	21'-3¼"	5'-6"	58'-0"	18'-0"	5'-6⅜"	565.77	521.5	513.0	13	18	18	398+94.48	571.30

FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 42 OF 87 SHEETS

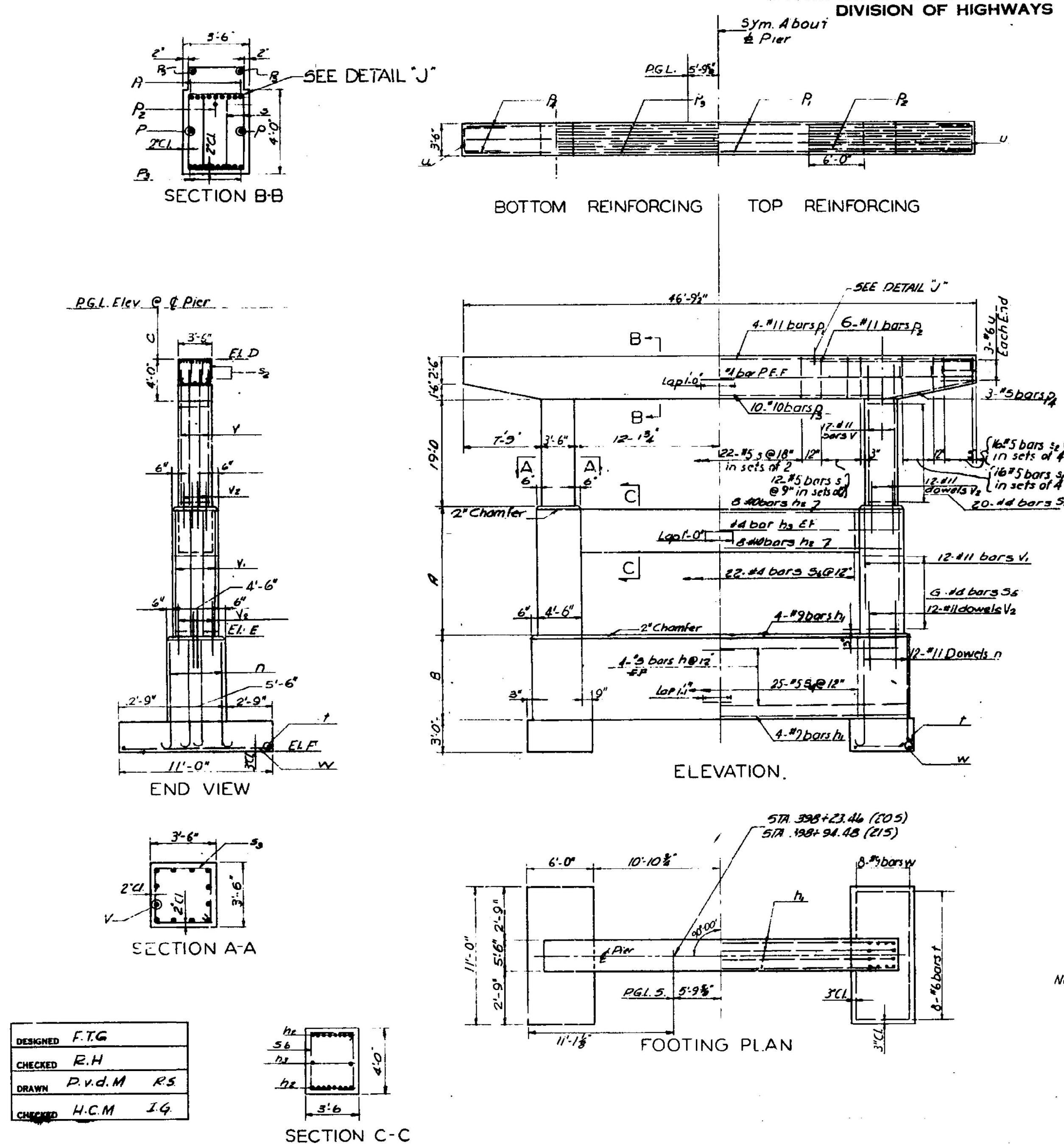
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	990
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing42.dgn

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

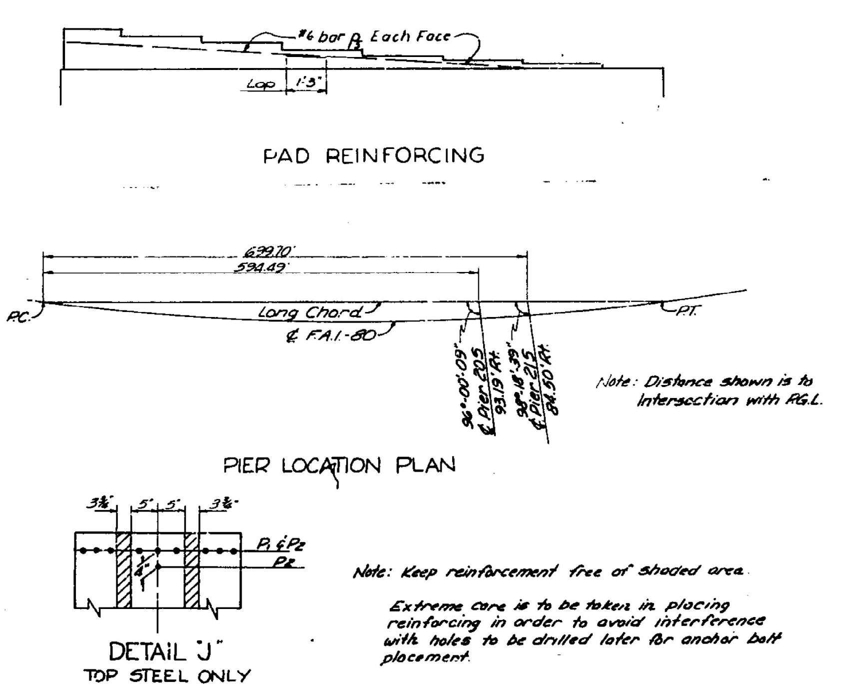
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3B	WILL	71	41

SHEET NO. 22
42 SHEETS
PROJECT I-80-4(13)133



Pier NO.	Dimensions			Elevations			Bars	Station ℄ Pier @ P.G.L	P.G Elev.
	A	B	C	D	E	F	G		
20S	22'-10⅛"	5-10¾"	5-6⅝"	567.88	522.0	513.1	19	398+23.46	573.43
21S	20-8⅞"	5-3⅝"	5-6¾	565.74	522.0	513.7	18	398+94.48	571.30

PIER 20S & 21S



Note: Keep reinforcement free of shaded area.

Extreme care is to be taken in placing reinforcing in order to avoid interference with holes to be drilled later for anchor bolt placement.

Notes:
For Bill of Materials see sh. 60
For Pad Elevations and Dimensions, see Key Plans, sh. 27
For Bar Lists see sh 57 & 58
For Location Plan, see sh. 25
Maximum Foundation Pressure = 5 T/sf.

DESIGNED	F.T.G	
CHECKED	R.H	
DRAWN	P.v.d.M	R.S
CHECKED	H.C.M	I.G.

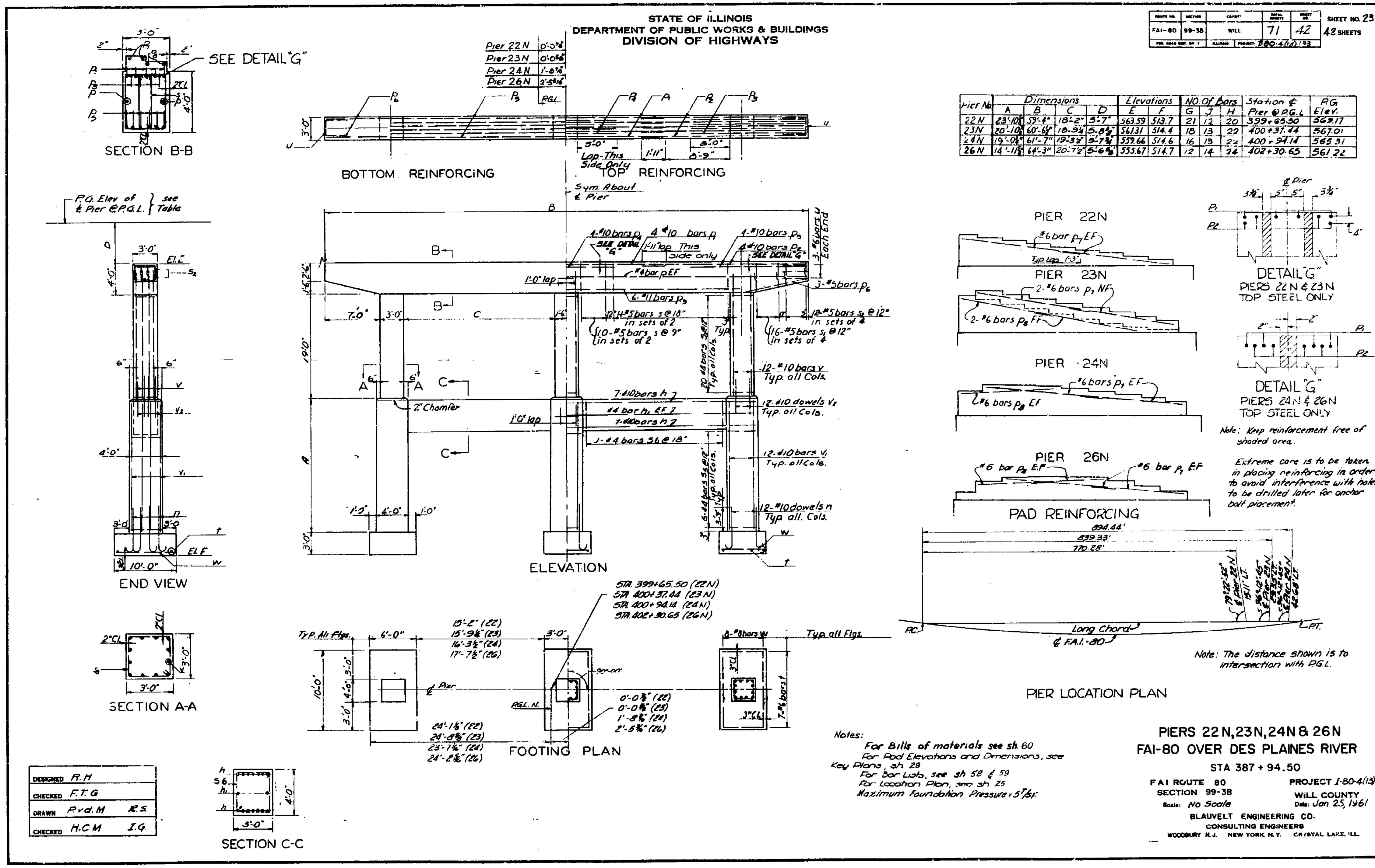
PIERS 20 S & 21 S
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3B
Scale: No Scale

PROJECT I-80-4(13)133
WILL COUNTY
Date: Jan. 25, 1961

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

FOR INFORMATION ONLY



Pier No.	Dimensions A	B	C	D	Elevations E	F	No. of Bars G	J	H	Station ℄ Pier @ P.G.L.	P.G. Elev.
22N	23'-10"	59'-4"	18'-2"	5'-7"	563.59	513.7	21	12	20	399+65.50	569.17
23N	20'-10"	60'-6½"	18'-9¼"	5'-8"	561.31	514.4	18	13	22	400+37.44	567.01
24N	19'-0½"	61'-7"	19'-3½"	5'-7¾"	559.66	514.6	16	13	22	400+94.14	565.31
26N	14'-11"	64'-3"	20'-7½"	5'-6"	555.67	514.7	12	14	24	402+30.65	561.22

FOR INFORMATION ONLY

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		CHECKED -	REVISED -
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

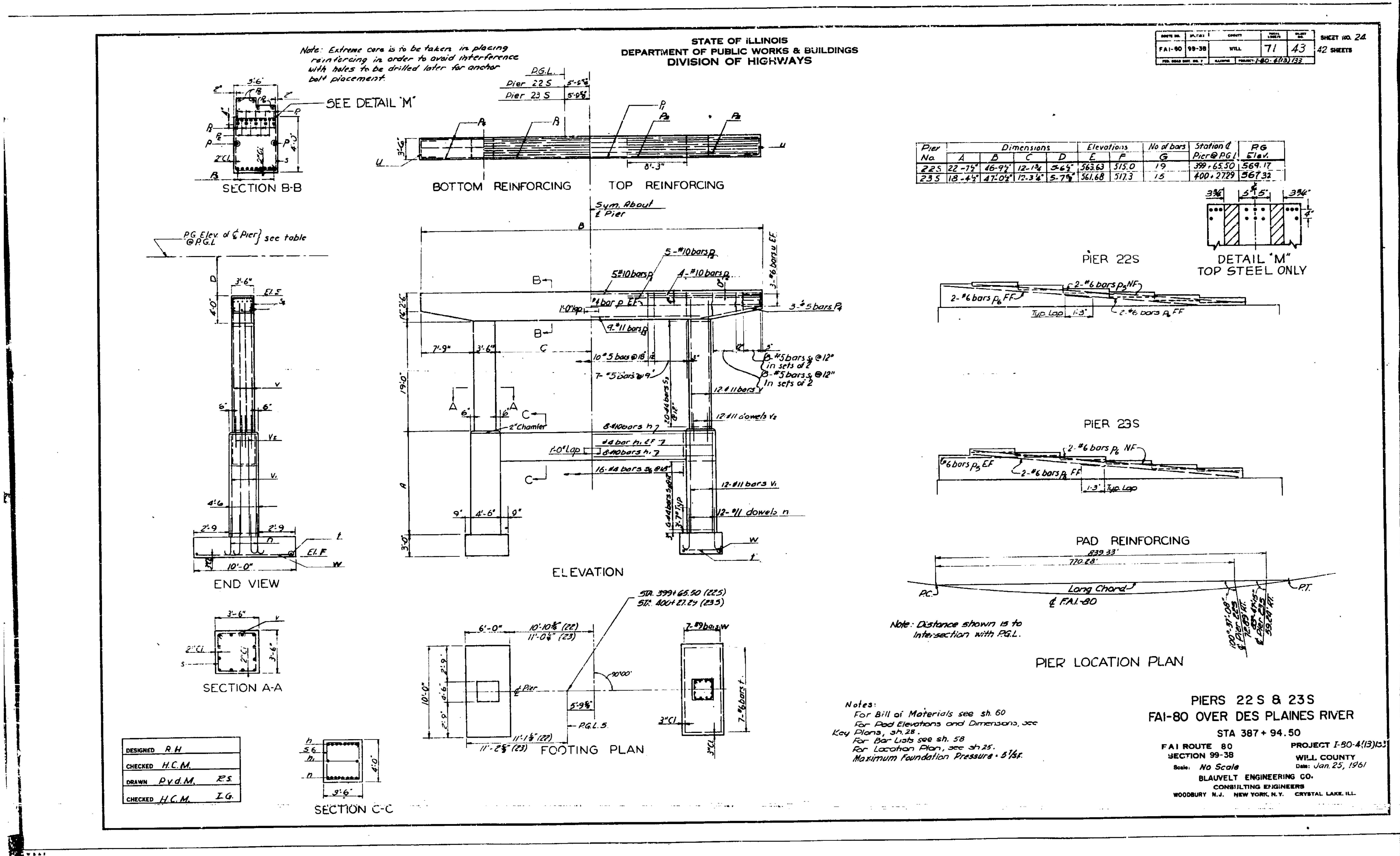
EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 44 OF 87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	992

CONTRACT NO. 62R23

ILLINOIS | FED. AID PROJECT

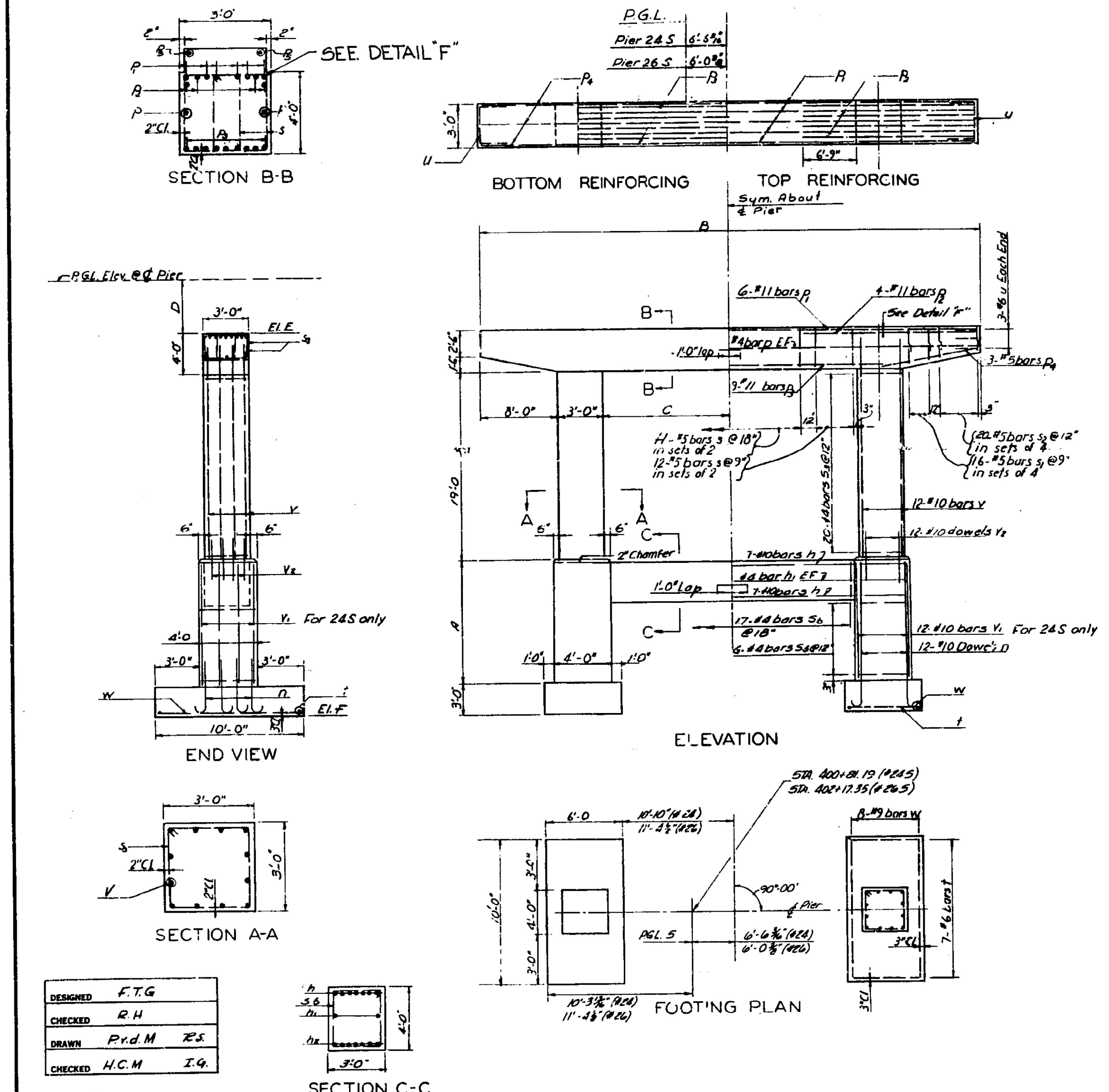


Pier No.	Dimensions A	B	C	D	Elevations E	F	No of bars G	Station ℄ Pier @ P.G.L.	P.G. Elev.
22 S	22'-7½"	46'-9½"	12'-1¾"	5'-6½"	563.63	515.0	19	399+65.50	569.17
23 S	18'-4½"	47'-0½"	12'-3¼"	5'-7⅝"	561.68	517.3	15	400+27.29	567.32

FOR INFORMATION ONLY

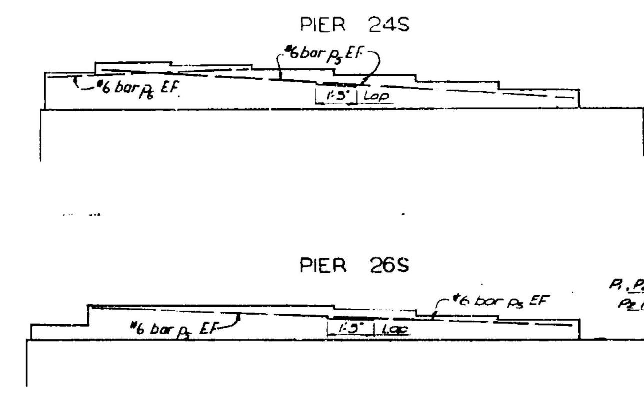
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI-80 | 99-3B | WILL | 71 | 44 | SHEET NO. 25 | 42 SHEETS



SECTION B-B · BOTTOM REINFORCING · TOP REINFORCING · END VIEW · ELEVATION · SECTION A-A · FOOTING PLAN · SECTION C-C

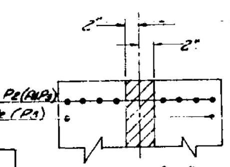
Pier NO.	Dimension A	Dimension B	Dimension C	Dimension D	Elevation E	Elevation F	No Of Bar G	No Of Bar H	Station ¢ Pier @ P.G.L	PG Elev.
24S	13'-7⅞"	46'-8"	12'-4"	5'-7⅞"	560.03	520.5	10	24	400+81.19	565.70
26S	7'-4½"	47'-9"	12'-10½"	5'-5⅝"	556.18	522.8	4	22	402+17.35	561.62



PIER 24S

PIER 26S

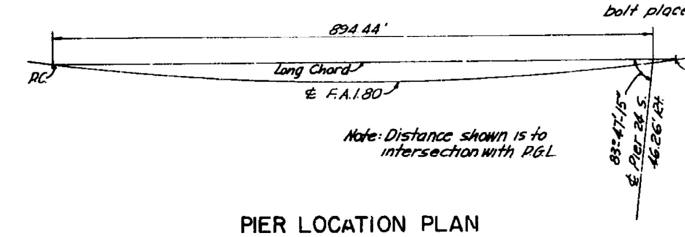
PAD REINFORCING



DETAIL "F"
TOP STEEL ONLY

Note: Keep reinforcement free of shaded area.

Extreme care is to be taken in placing reinforcing in order to avoid interference with holes to be drilled later for anchor bolt placement.



Note: Distance shown is to intersection with PGL

PIER LOCATION PLAN

Notes:
For Bill of Materials see sh. 60
For Pad Elevations and Dimensions, see Key Plans, sh. 28
For Bar Lists see sh. 58 & 59
For Location Plan, see sh. 25
Maximum Foundation Pressure = 5 T/SF.

PIERS 24 S & 26 S
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80 — PROJECT I-80-4(15)123
SECTION 99-3B — WILL COUNTY
Scale: No Scale — Date: Jan. 25, 1961

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

DESIGNED	F.T.G	
CHECKED	R.H	
DRAWN	P.r.d.M	R.S.
CHECKED	H.C.M	I.G.

FOR INFORMATION ONLY

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

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

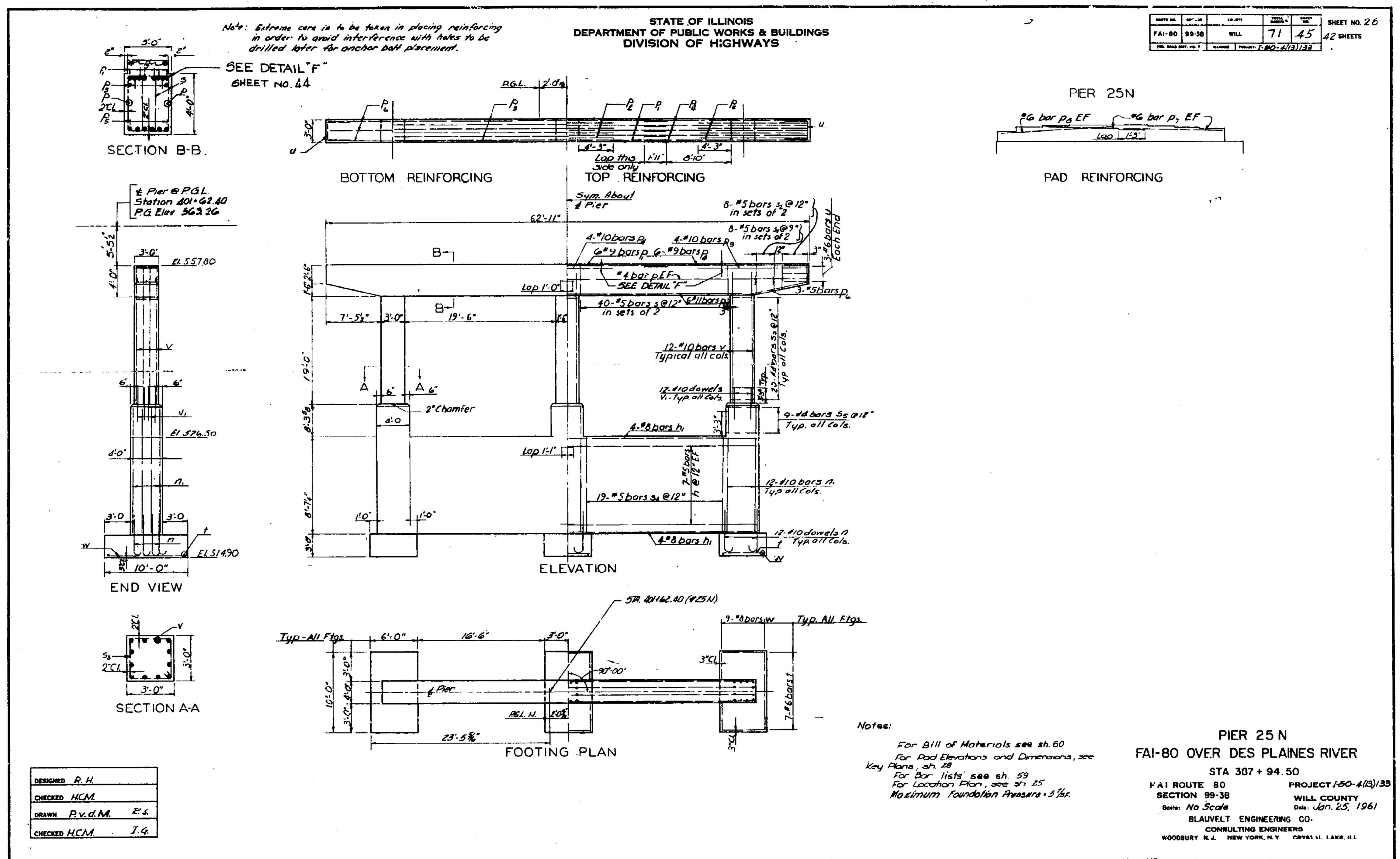
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	994

CONTRACT NO. 62R23
ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/40118002/03-WSP/CAD/62R23-R8-1/Sheets/Structural/Existing Plans/Sheets/0998309-62R24-Existing46.dgn



FOR INFORMATION ONLY

USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

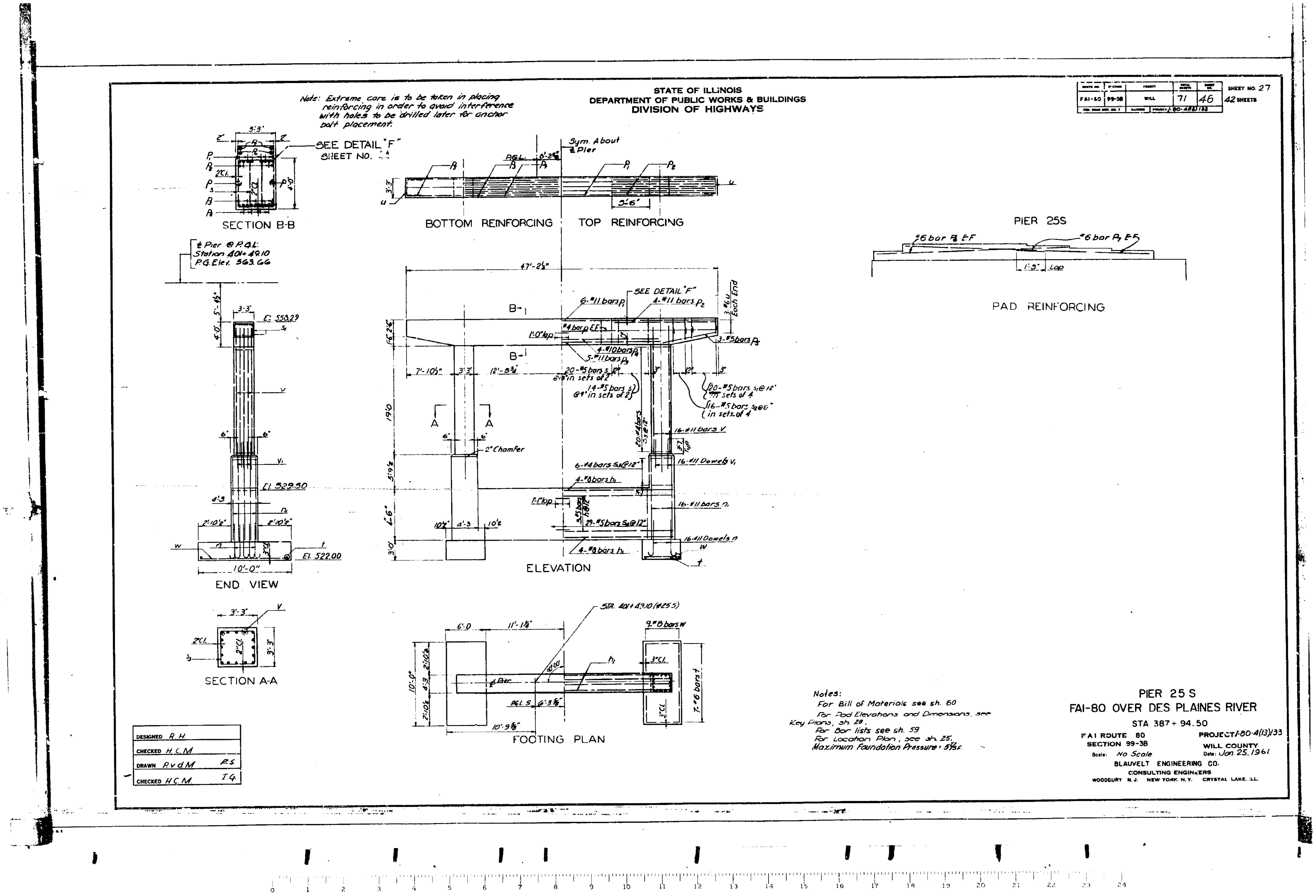
WSP USA Inc.
30 N. LASALLE STREET
SUITE 4200
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	995

CONTRACT NO. 62R23
ILLINOIS FED. AID PROJECT



FOR INFORMATION ONLY

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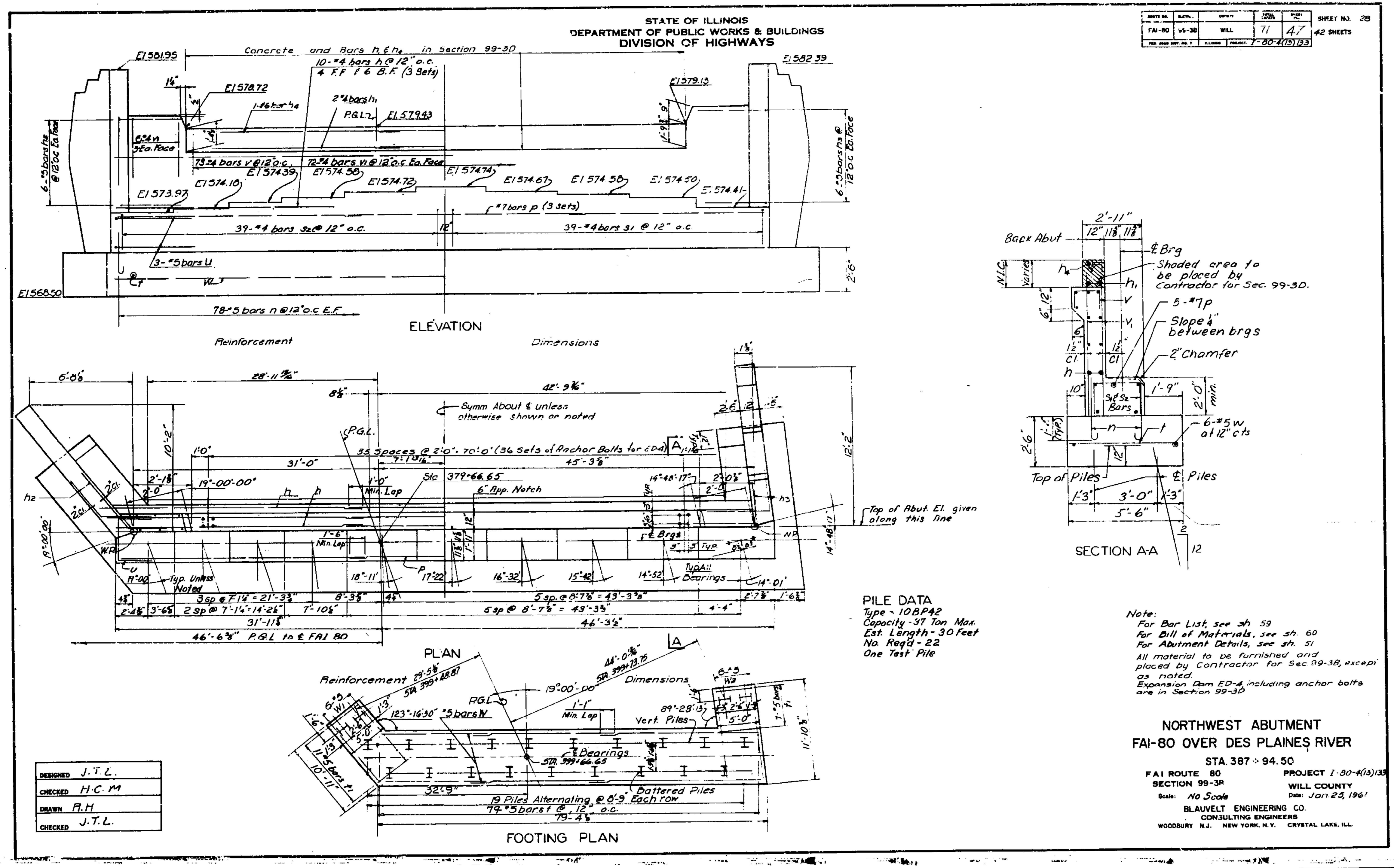
WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB	F.A.I RTE. 80	SECTION FAI 80 21 STRUCTURE 2
		CHECKED -	REVISED -			COUNTY WILL	TOTAL SHEETS 1230
	PLOT SCALE = 0:2 ':" / in.	DRAWN -	REVISED -			SHEET NO. 996	CONTRACT NO. 62R23
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -		SHEET 48 OF 87 SHEETS	ILLINOIS	FED. AID PROJECT



FOR INFORMATION ONLY

USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 ' / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

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

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	997

CONTRACT NO. 62R23

ILLINOIS FED. AID PROJECT

SHEET 49 OF 87 SHEETS

MODEL: Default
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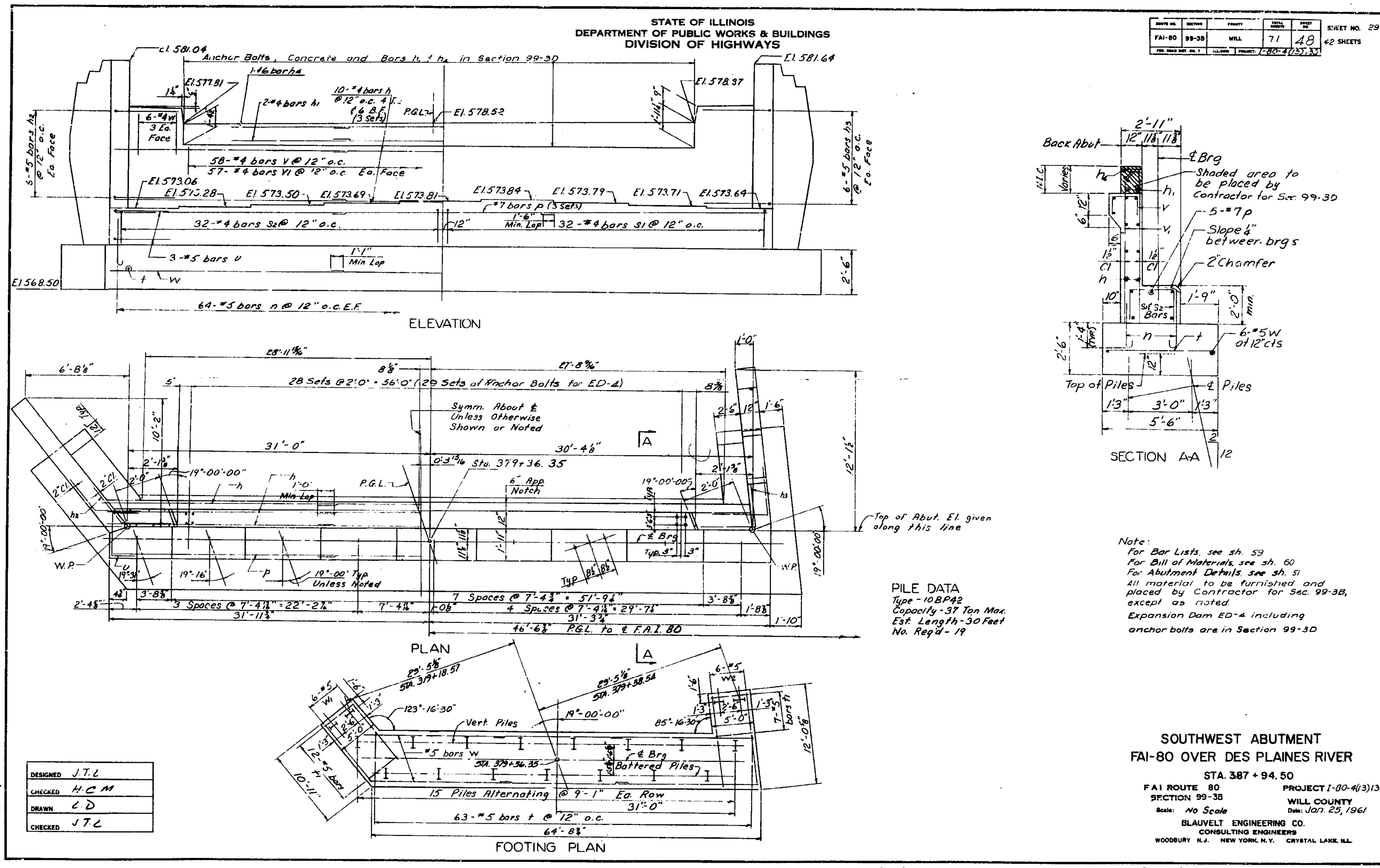

FOR INFORMATION ONLY

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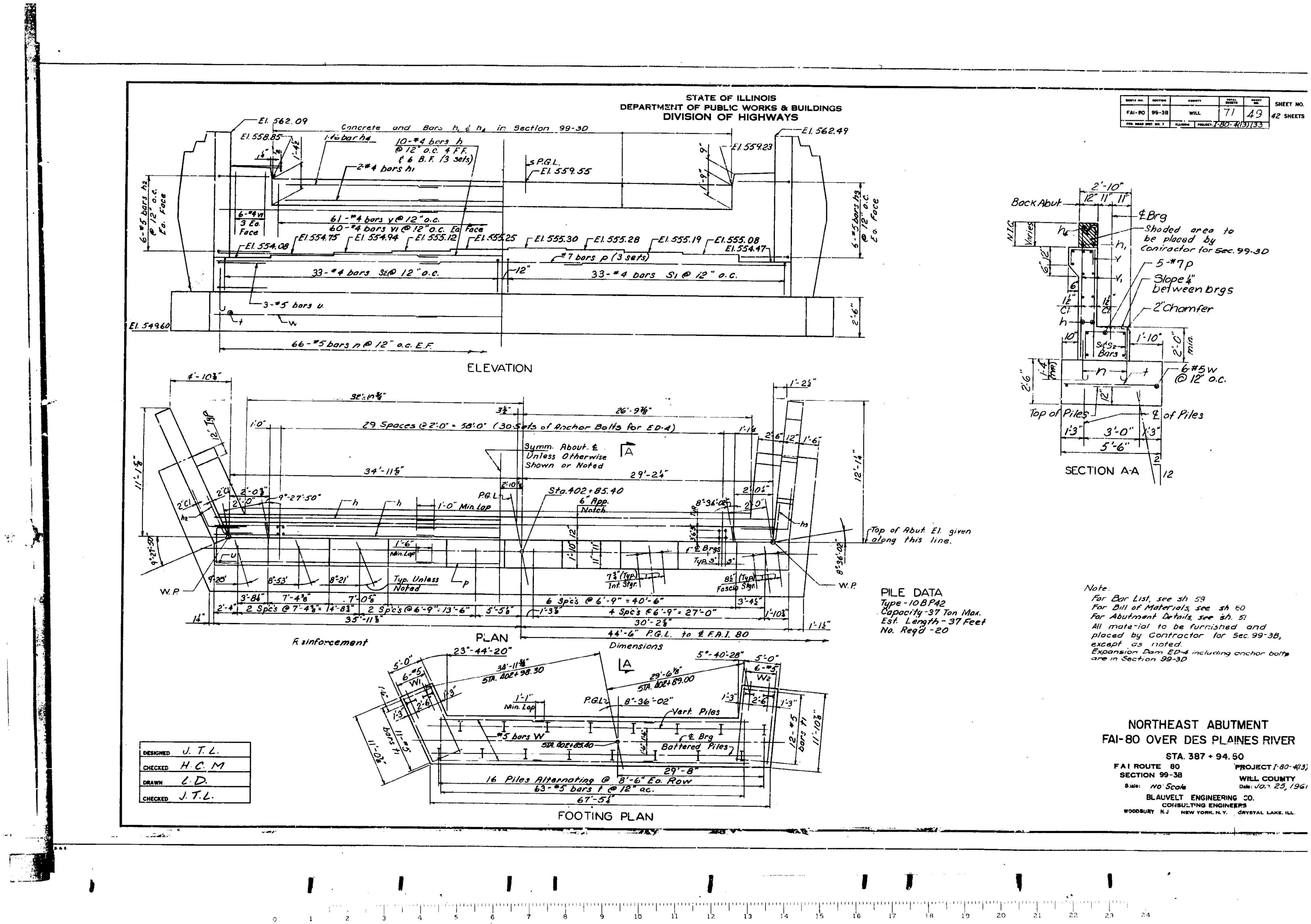
		CHECKED -	REVISED -			80	FAI 80 21 STRUCTURE 2	WILL	1230	998
	PLOT SCALE = 0:2 '/" / in.	DRAWN -	REVISED -			CONTRACT NO. 62R23				
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -		SHEET 50 OF 87 SHEETS	ILLINOIS FED. AID PROJECT				



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) 782-1684

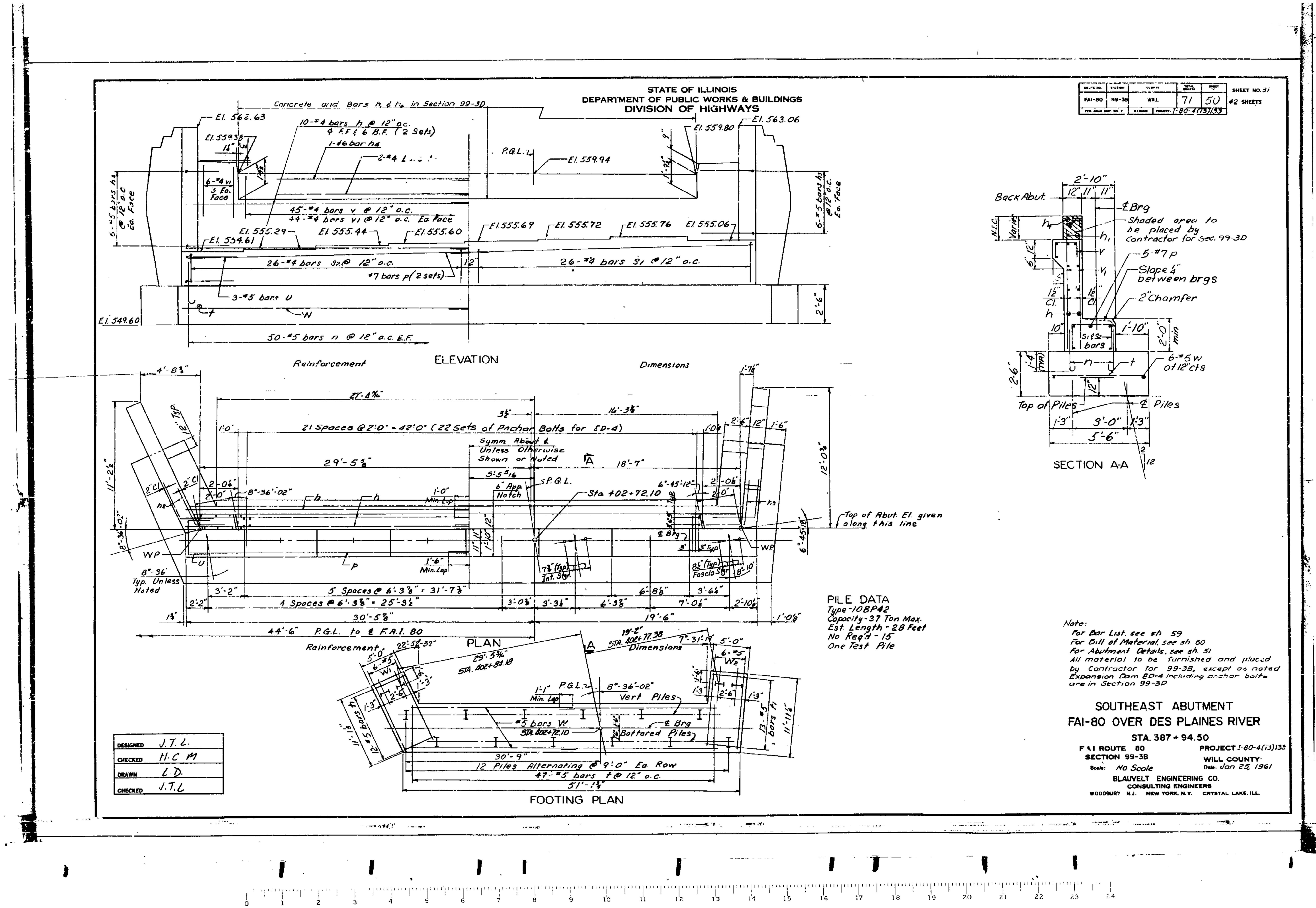
USER NAME = USSJ696614	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = 0:2 " / in.	DRAWN -	REVISED -	
PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 51 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	999
		CONTRACT NO. 62R23		
		ILLINOIS	FED. AID PROJECT	



FOR INFORMATION ONLY

WSP USA Inc. 30 N. LASALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = USSJ696614	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = 0:2 ' / in.	DRAWN -	REVISED -	
	PLOT DATE = 11/5/2025	CHECKED -	REVISED -	

EXISTING PLAN
STRUCTURE NUMBER 099-0056 EB AND 099-0057 WB

SHEET 52 OF 87 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 2	WILL	1230	1000

CONTRACT NO. 62R23

ILLINOIS FED. AID PROJECT