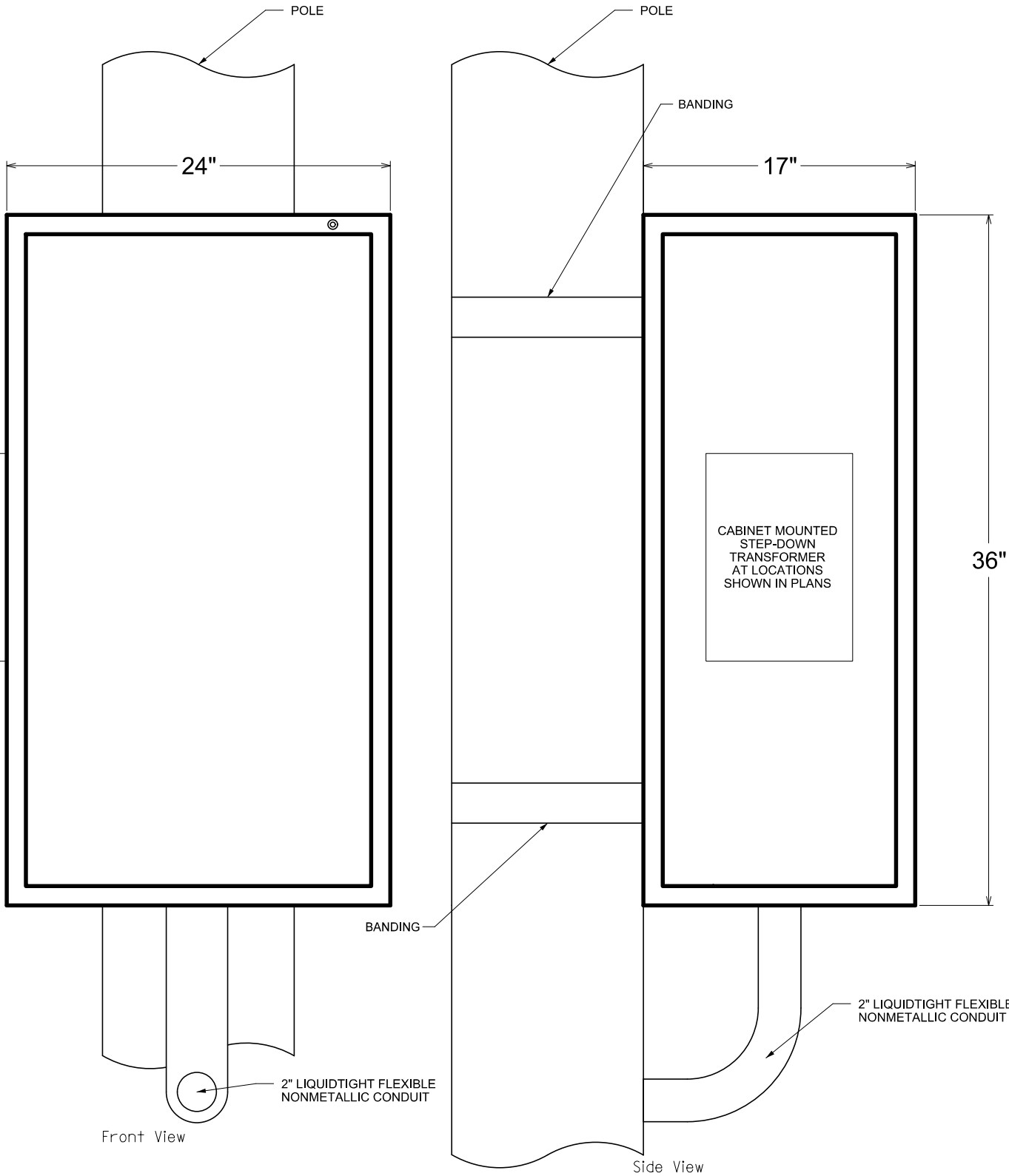




CABINET MOUNTED STEP-DOWN TRANSFORMER AT LOCATIONS SHOWN IN PLANS



POLE MOUNTED DEVICE CABINET
NOT TO SCALE

GENERAL NOTES

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SUPPLEMENTAL SPECIFICATIONS.
2. CABINET HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. USE TYPE 316 STAINLESS STEEL FOR ALL CABINET MOUNTING HARDWARE.
4. USE 3/4" WIDE AND 0.03" THICK BANDING FOR POLE MOUNTED CABINETS.

LAYOUT	
DRAWN	
REVIEWED	

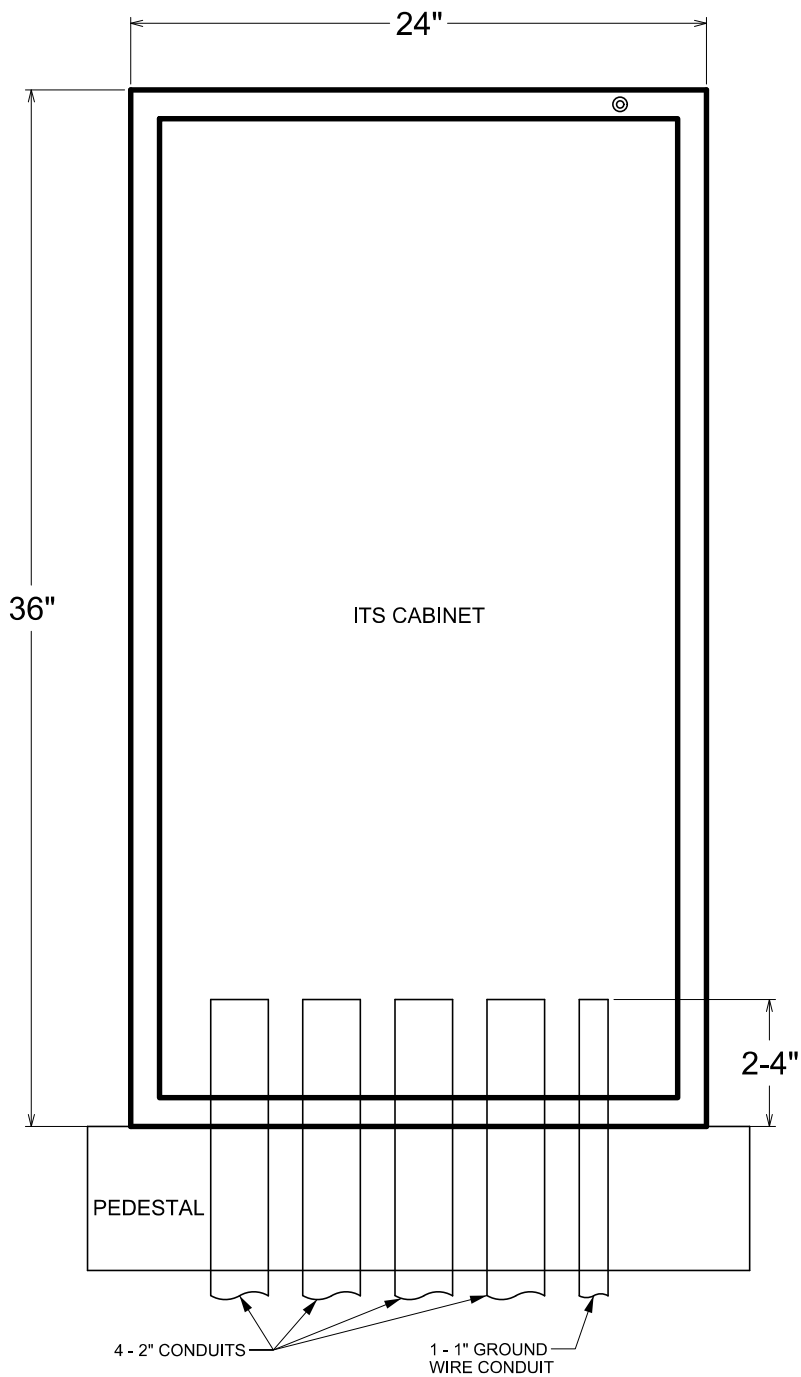
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PLOT DATE = 1/19/2017	DATE - 1/20/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

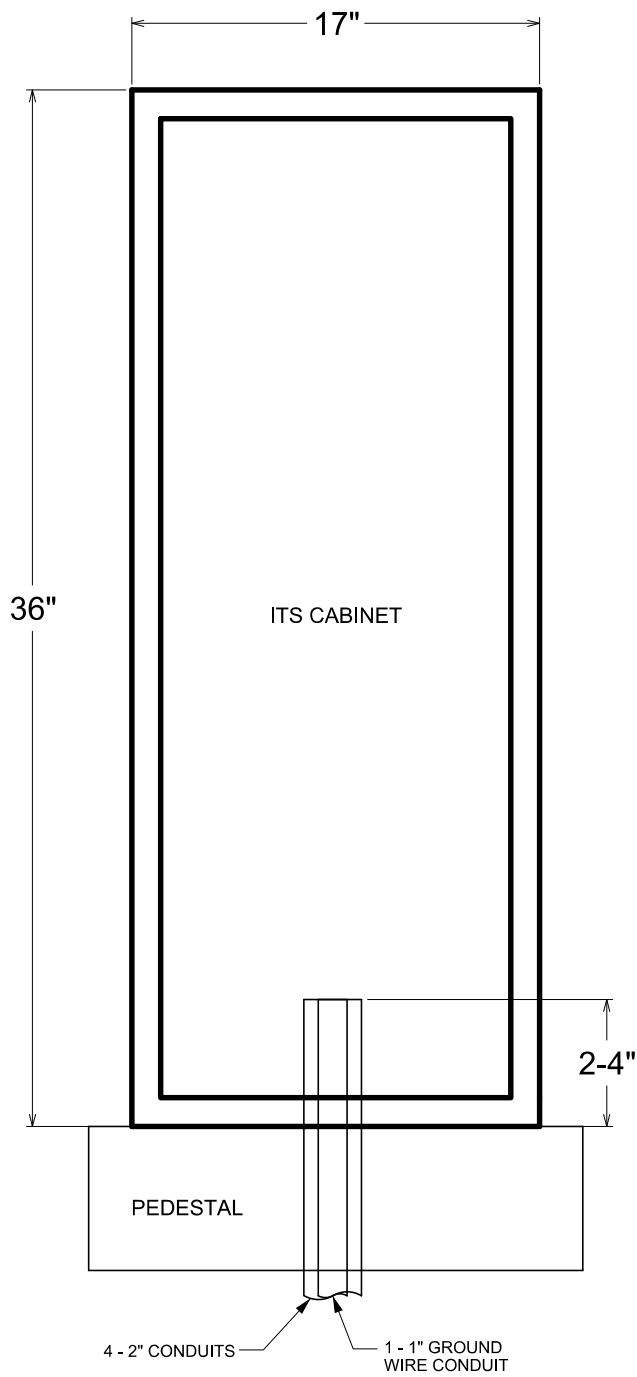
ITS PLANS DETAILS POLE MOUNTED CABINET			
SCALE: NA	SHEET NO. 601OF 1504SHEETS	STA.	TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	601
				CONTRACT NO. 64C08
ILLINOIS FED. AID PROJECT				

ITS-09



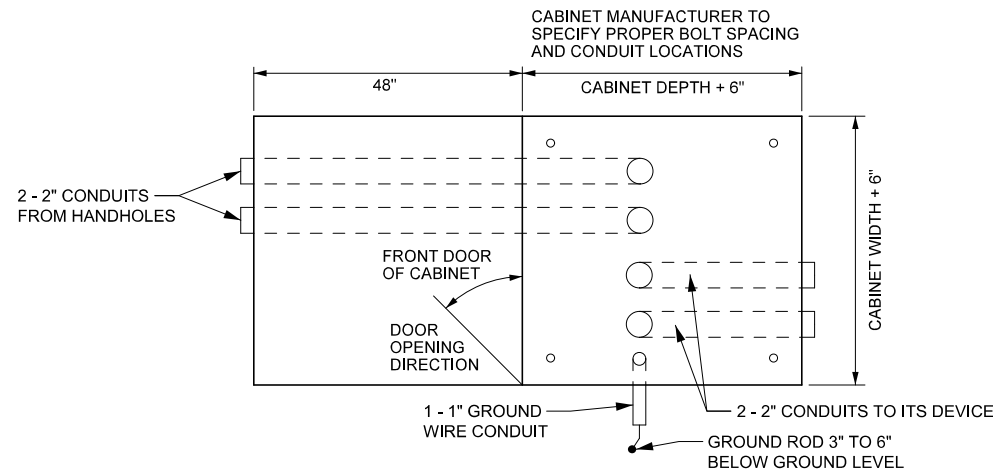
CABINET FRONT VIEW
NOT TO SCALE



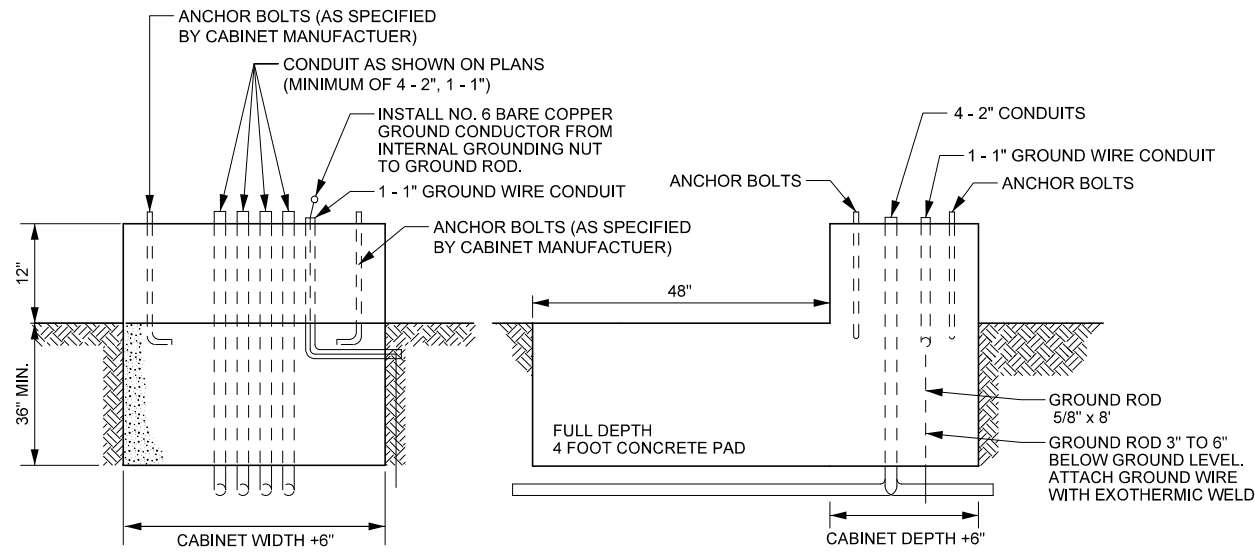
CABINET SIDE VIEW
NOT TO SCALE

GENERAL NOTES

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SUPPLEMENTAL SPECIFICATIONS.
2. FOUNDATION MUST BE INSTALLED PRIOR TO TRENCHING AND WITHOUT PILOT HOLE.
3. FOUNDATION MUST BE INSTALLED WITH BASEPLATE LEVEL AND FLUSH WITH FINISHED GRADE.
4. CABINET HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. USE TYPE 316 STAINLESS STEEL FOR ALL CABINET MOUNTING HARDWARE.
6. FOR INSTALLATION OF CABINET TO PEDESTAL, USE 1/2" X 1 1/4" BOLTS WITH TWO FENDER WASHERS AND ONE LOCK WASHER INSTALLED WITH NUT ON TOP.
7. ALL ITS CABINET FOOTINGS SHALL INCLUDE A FULL DEPTH 4 FEET CONCRETE MAINTENANCE PAD AREA THAT IS CAST AND REINFORCED AS A SINGLE UNIT WITH THE CABINET PEDESTAL.
8. CONTRACTOR SHALL PREPARE AND SUBMIT FOR ENGINEER APPROVAL, DESIGN PLANS AND DETAILS FOR ALL CABINET FOOTINGS AT NO ADDITIONAL COST TO THE ENGINEER. SUCH PLANS AND DETAILS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.
9. ANY DEVIATION FROM ABOVE INSTALLATION PROCEDURES MUST BE APPROVED BY ENGINEER.

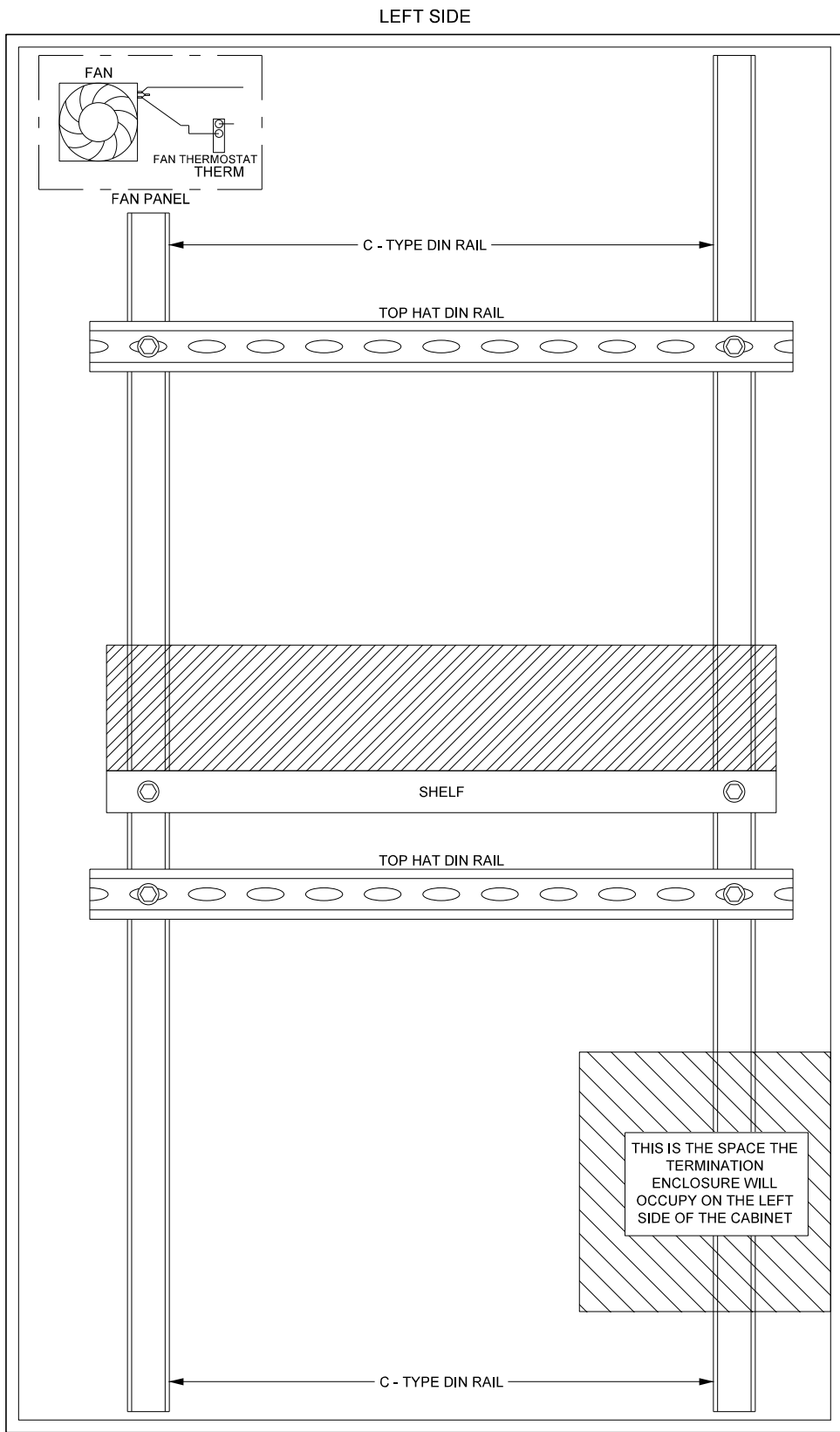


CABINET FOOTING TOP VIEW
NOT TO SCALE

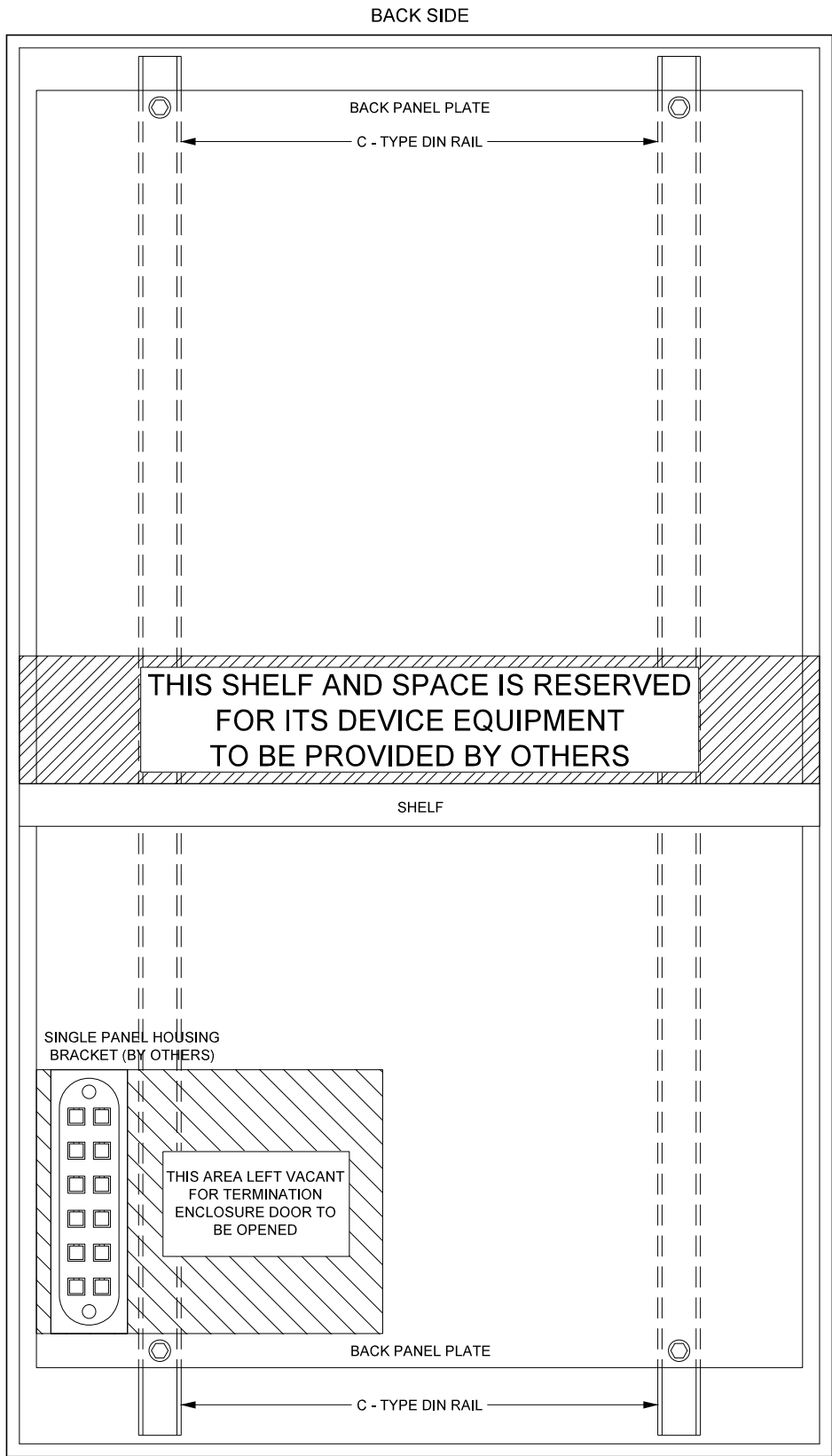


CABINET FOOTING FRONT VIEW
NOT TO SCALE

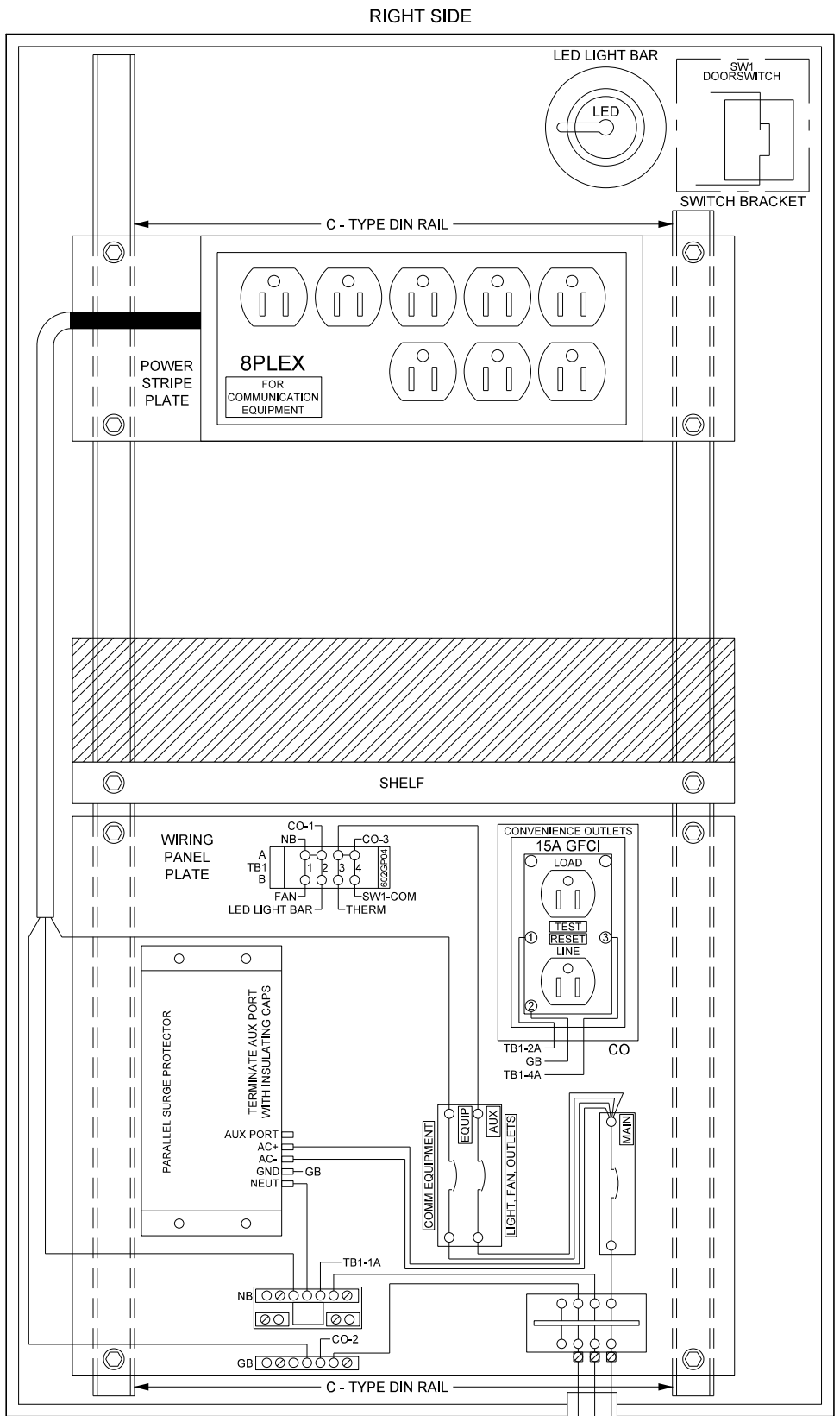
CABINET FOOTING SIDE VIEW
NOT TO SCALE



LEFT SIDE



BACK SIDE



RIGHT SIDE

GENERAL NOTES

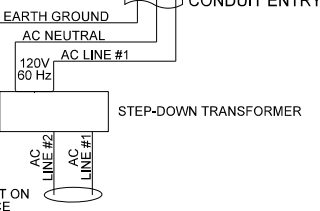
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SUPPLEMENTAL SPECIFICATIONS.

DEVICE CABINET LAYOUT
NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS
DETAILS
120V DEVICE CABINET LAYOUT

SCALE: NA SHEET NO. 6030F 1504SHEETS STA. TO STA.

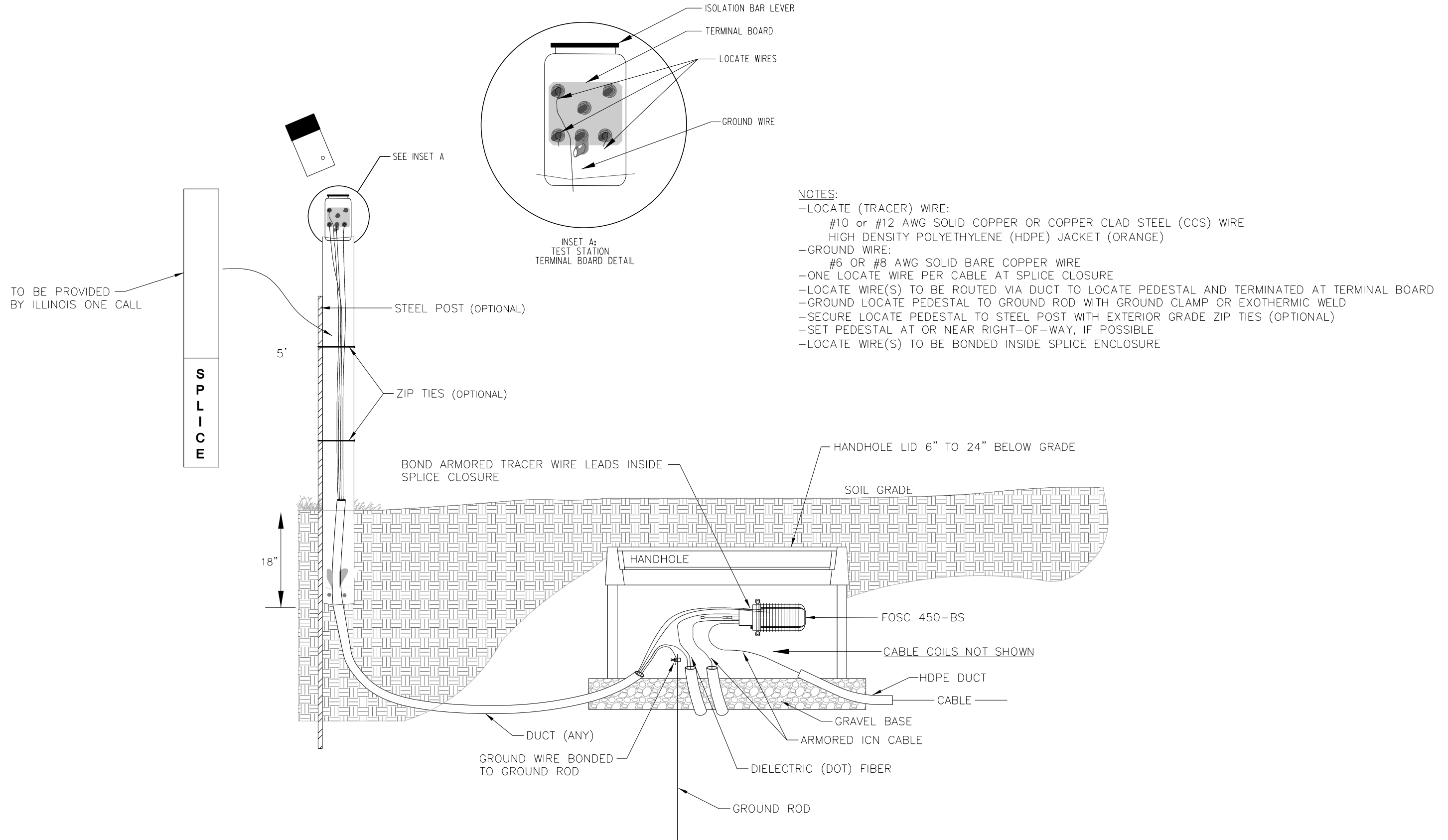


ITS-11

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVR	ROCK ISLAND	1504	603
				CONTRACT NO. 64C08
ILLINOIS FED. AID PROJECT				

LAYOUT	DRAWN	REVIEWED

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	PLOT DATE = 1/19/2017	DATE - 1/20/2017	REVISED -



- NOTES:
- LOCATE (TRACER) WIRE:
#10 or #12 AWG SOLID COPPER OR COPPER CLAD STEEL (CCS) WIRE
HIGH DENSITY POLYETHYLENE (HDPE) JACKET (ORANGE)
 - GROUND WIRE:
#6 OR #8 AWG SOLID BARE COPPER WIRE
 - ONE LOCATE WIRE PER CABLE AT SPLICE CLOSURE
 - LOCATE WIRE(S) TO BE ROUTED VIA DUCT TO LOCATE PEDESTAL AND TERMINATED AT TERMINAL BOARD
 - GROUND LOCATE PEDESTAL TO GROUND ROD WITH GROUND CLAMP OR EXOTHERMIC WELD
 - SECURE LOCATE PEDESTAL TO STEEL POST WITH EXTERIOR GRADE ZIP TIES (OPTIONAL)
 - SET PEDESTAL AT OR NEAR RIGHT-OF-WAY, IF POSSIBLE
 - LOCATE WIRE(S) TO BE BONDED INSIDE SPLICE ENCLOSURE

LOCATE STATION DETAIL WITH SPLICE CLOSURE GROUND KIT
NOT TO SCALE

LAYOUT	
DRAWN	
REVIEWED	

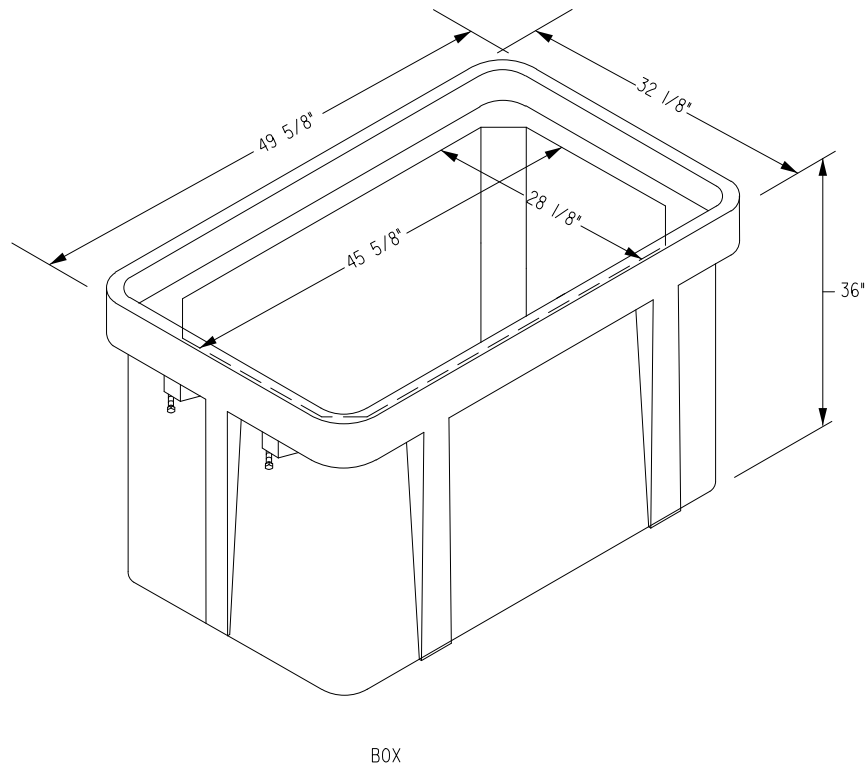
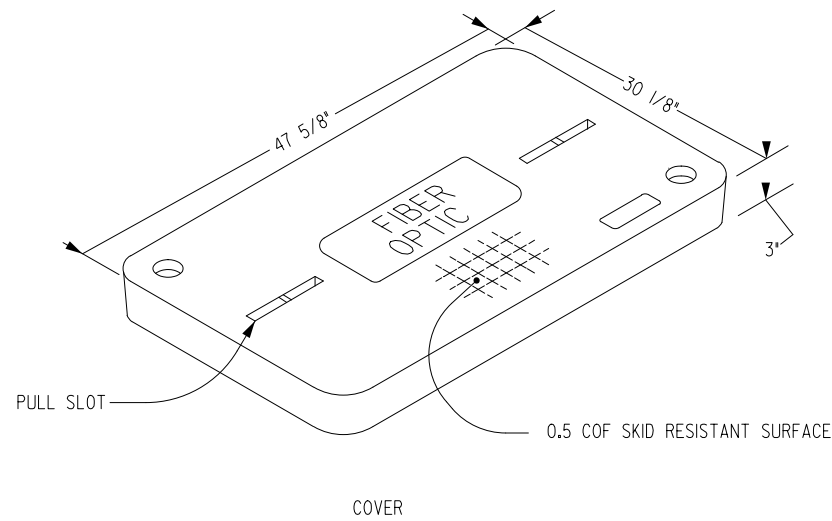
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PLOT DATE = 1/19/2017	DATE = 1/20/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS DETAILS HANDHOLE INSTALLATION			
SCALE: NA	SHEET NO. 6040F 1504SHEETS	STA.	TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	604
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

ITS-12



HANDHOLE SPECIAL
NOT TO SCALE

GENERAL NOTES

- HANDHOLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN IN DETAILS.
- ALL HANDHOLE COVERS SHALL HAVE AN APPROVED ANTI-SKID PATTERN.
- HANDHOLES SHALL REST FIRMLY ON A BED OF 3/4" WASHED CRUSHED LIMESTONE ROCK WITH A MINIMUM DEPTH OF 12" BELOW THE BOTTOM OF THE HANDHOLE, EXTENDING AT LEAST 3" BEYOND THE OUTSIDE EDGES OF THE PULL BOX.
- DO NOT INSTALL LID BOLTS.
- AFTER TRACER WIRE IS INSTALLED, ALL DUCT TERMINALS ENDS IN HANDHOLES SHALL BE SEALED AGAINST ENTRY OF MOISTURE BY METHODS STATED IN SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.
- ALL LIDS SHALL BE LABELED:
ALL HANDHOLE (SPECIAL) LIDS SHALL BE LABELD 'FIBER OPTIC'.
- NO CONDUIT SHALL ENTER THROUGH SIDE WALL OF HANDHOLES, THEY MUST ENTER FROM THE BOTTOM.

LAYOUT		
DRAWN		
REVIEWED		

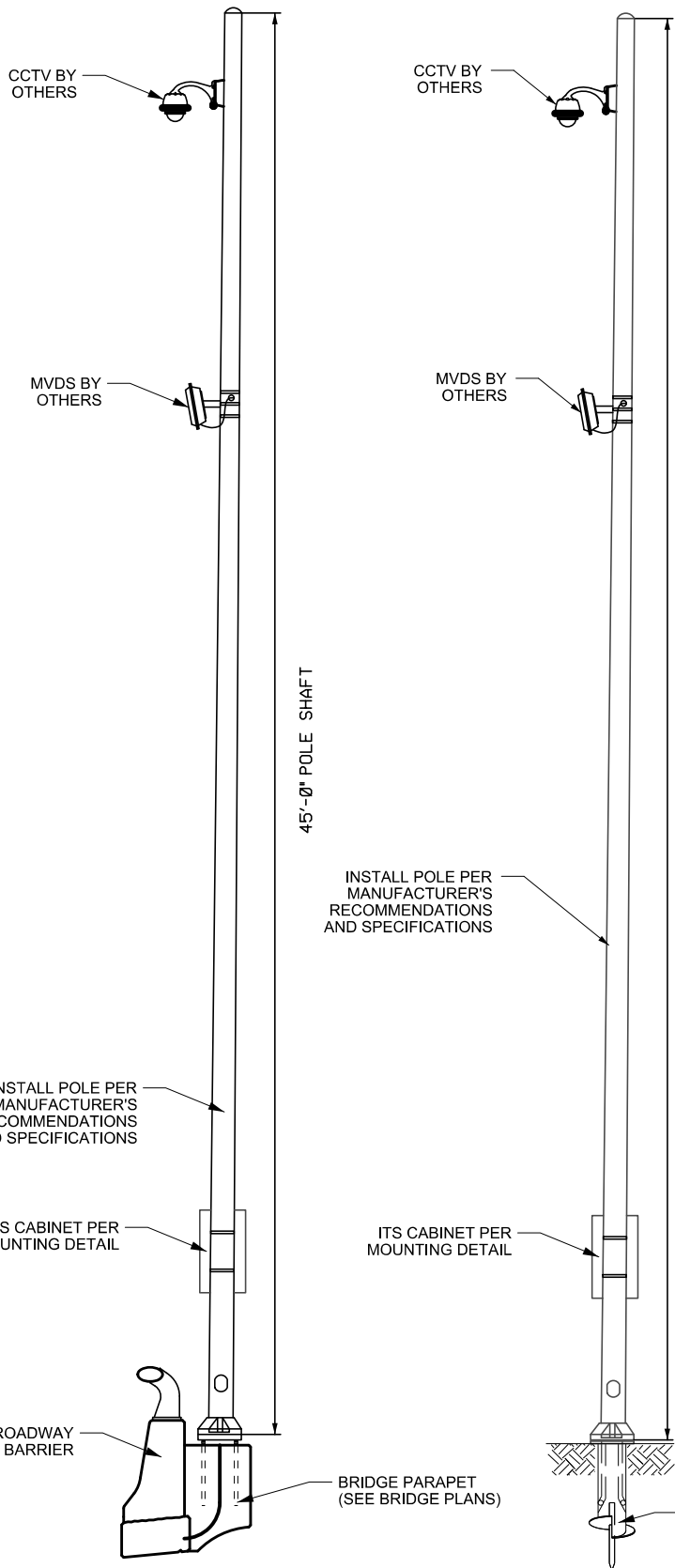
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PLOT DATE = 1/19/2017	DATE - 1/20/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

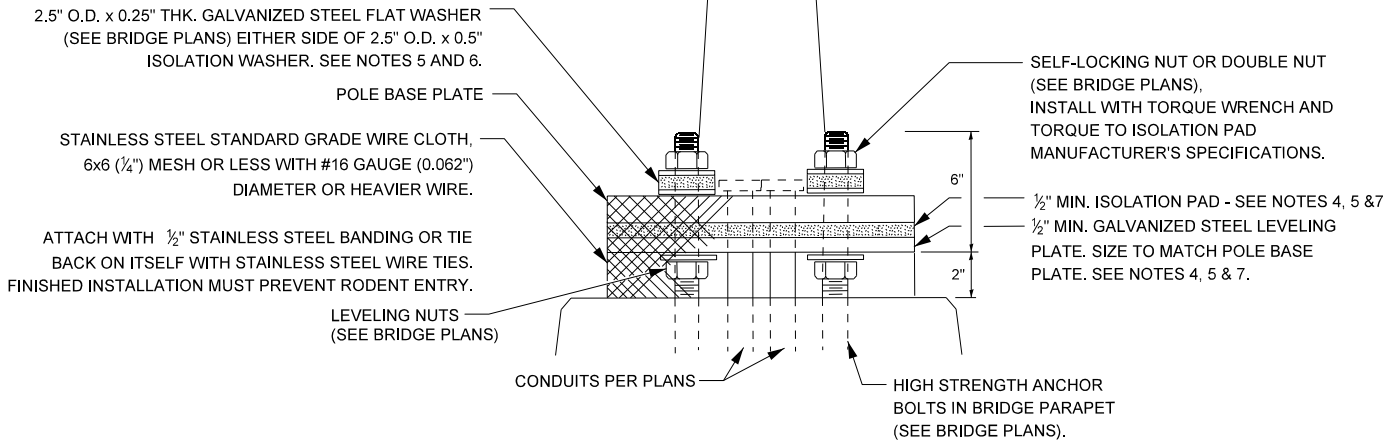
ITS PLANS
DETAILS
HANDHOLE (SPECIAL)

SCALE: NA SHEET NO. 605OF 1504SHEETS STA. TO STA.

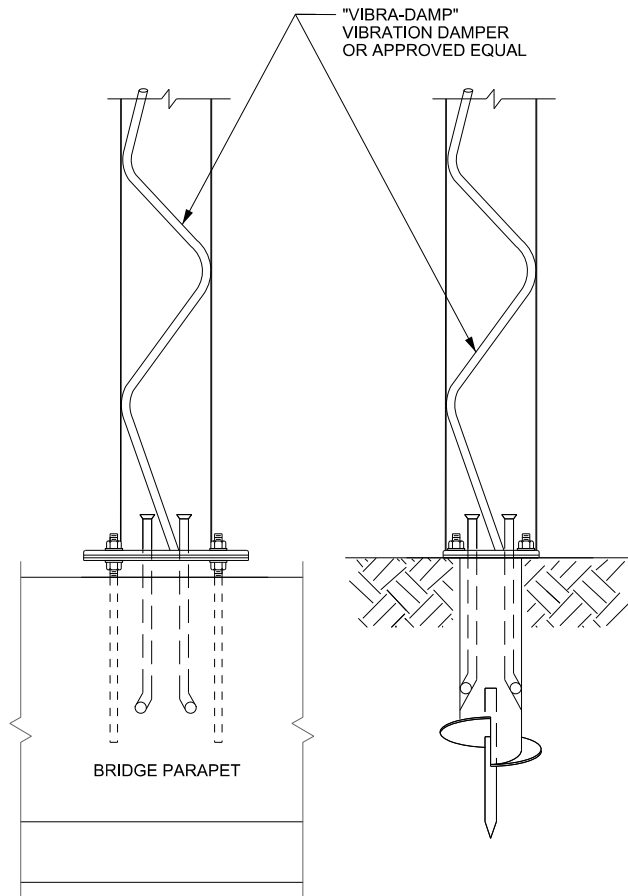
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	605
				CONTRACT NO. 64C08
ILLINOIS FED. AID PROJECT				



TYPICAL STEEL POLE
NOT TO SCALE



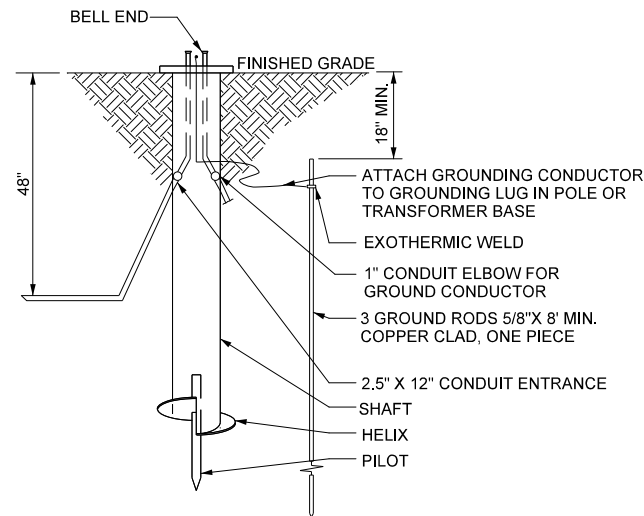
POLE MOUNTED ON BRIDGE PARAPET DETAIL
NOT TO SCALE



TYPICAL POLE DAMPENER
NOT TO SCALE

GENERAL NOTES

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SUPPLEMENTAL SPECIFICATIONS.
2. CONTRACTOR SHALL FURNISH AND INSTALL POLE DAMPENER.
3. REFER TO BRIDGE PLANS FOR ANCHOR BOLT SIZE AND LAYOUT.
4. REFER TO BRIDGE PLANS FOR INFORMATION REGARDING THE MOUNTING OF POLES ON THE BRIDGE STRUCTURE.



TYPICAL POWER INSTALLED FOUNDATION
NOT TO SCALE

POWER INSTALLED FOUNDATION NOTES

1. FINISH: HOT DIP GALVANIZE PER ASTM-A153 (LATEST REVISION).
2. BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (+/- 1°) AND HOLE CENTERLINE CONCENTRIC (+/- 1/8") TO SHAFT AXIS.
3. STENCIL MIN. 1/2 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (1/25 FIM) AND IN LINE (+/- 2+)
5. FLAME CUT TWO SLOTS IN SHAFT PERPENDICULAR TO THE BASEPLATE.
6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAMECUT IRREGULARITIES PERMISSIBLE: (1) VALLEYS NOT TO EXCEED 3/32" BELOW NOMINAL SURFACE LEVEL, (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED 1/32 IN. ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
9. ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:
BASEPLATE: ASTM A36 - (LATEST REVISION) STRUCTURAL STEEL (CONFORM TO AASHTO TECH. BUL. #270)
SHAFT: ASTM A252 - (LATEST REVISION) GRADE 2, STEEL PIPE PILES. ALTERNATE MATERIAL: ASTM A53 - (LATEST REVISION) TYPE E OR S, GRADE B, STEEL PIPE OR ASTM A500 - (LATEST REVISION) GRADE B, STRUCTURAL STEEL TUBING.
HELIX: ASTM A635 - (LATEST REVISION) 1/2" THICK HOT ROLLED STEEL PLATE OR COIL.
PILOT POINT: ASTM A575 - (LATEST REVISION) 1-1/4" DIAMETER HOT ROLLED STEEL BAR.
BOLTS: CARRIAGE BOLT, 1-8UNC-2A PER ANSIB-18.5, SAE J429 GRADE-5.
NUTS: HEAVY HEX NUTS PER ASTM A194 GRADE 2H OR ASTM A563 GRADE DH, MEETING THE SUPPLEMENTARY REQUIREMENTS OF ASTM A563; 1-8UNC-2B PER ANSIB18.2.2.
10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/2" LETTERS AND DATE CODE IN 1/4" LETTERS.
11. BASEPLATE PERMANENTLY MARKED TO INDICATE CABLEWAY OPENING IN SHAFT.

LAYOUT	
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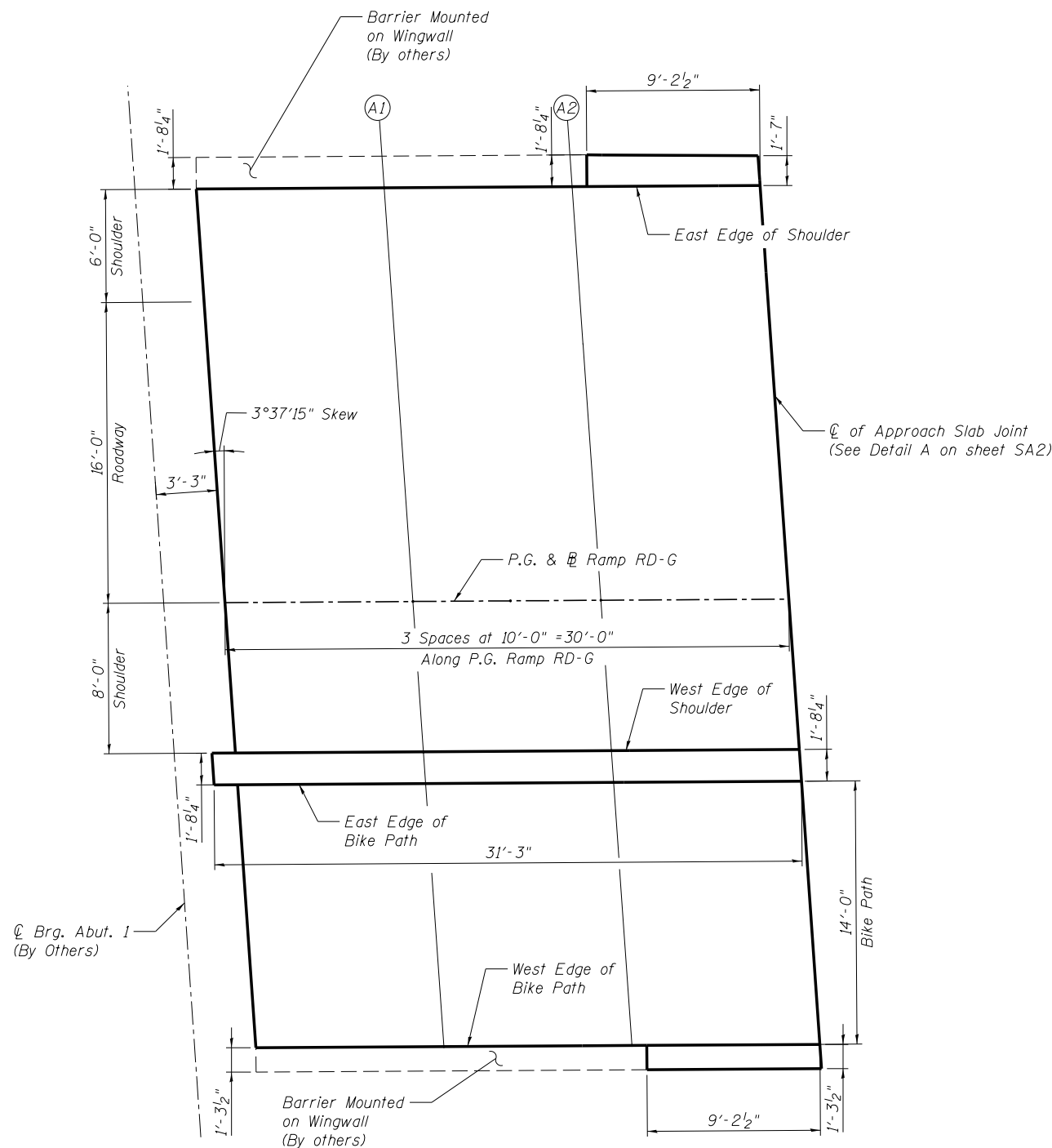
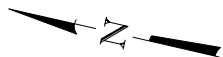
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS
DETAILS
POLE AND FOUNDATION

SCALE: NA SHEET NO. 6060F 1504SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	606
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

ITS-14



PLAN

NOTE:

1. Offset measured from P.G. & B Ramp RD-G.

EAST EDGE OF SHOULDER

Location	Station (Along B Ramp RD-G)	Offset (From P.G. Ramp RD-G)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	128+58.42	-22.00	588.60
A1	128+68.42	-22.00	588.28
A2	128+78.42	-22.00	587.94
℄ of Approach Slab Joint	128+88.42	-22.00	587.61

B RAMP RD-G

Location	Station (Along B Ramp RD-G)	Offset (From P.G. Ramp RD-G)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	128+59.81	0.00	588.12
A1	128+69.81	0.00	587.79
A2	128+79.81	0.00	587.46
℄ of Approach Slab Joint	128+89.81	0.00	587.12

WEST EDGE OF SHOULDER

Location	Station (Along B Ramp RD-G)	Offset (From P.G. Ramp RD-G)	Theoretical Grade Elevations
℄ of Approach Slab Joint	128+60.32	8.00	587.94
A1	128+70.32	8.00	587.61
A2	128+80.32	8.00	587.28
Start of Approach Slab at Abut.	128+90.32	8.00	586.95

EAST EDGE OF BIKE PATH

Location	Station (Along B Ramp RD-G)	Offset (From P.G. Ramp RD-G)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	128+60.42	9.69	587.74
A1	128+70.42	9.69	587.41
A2	128+80.42	9.69	587.08
℄ of Approach Slab Joint	128+90.42	9.69	586.74

WEST EDGE OF BIKE PATH

Location	Station (Along B Ramp RD-G)	Offset (From P.G. Ramp RD-G)	Theoretical Grade Elevations
℄ of Approach Slab Joint	128+61.31	23.69	587.50
A1	128+71.31	23.69	587.17
A2	128+81.31	23.69	586.84
Start of Approach Slab at Abut.	128+91.31	23.69	586.50



Job No. 10061

FILE NAME = 000-0000-000A-001-Ramp RD-G Bridge Approach Slab

USER NAME = ksnyder

DESIGNED - LLR

REVISED -

CHECKED - TJJ

REVISED -

PLOT SCALE =

DRAWN - LLR

REVISED -

PLOT DATE = 1/18/2017

CHECKED - TJJ

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB ELEVATIONS
RAMP RD-G

SHEET NO. SA1 OF SA12 SHEETS

F.A.I.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

74

(81-11R & 81-1HVBR

ROCK ISLAND 1504

607

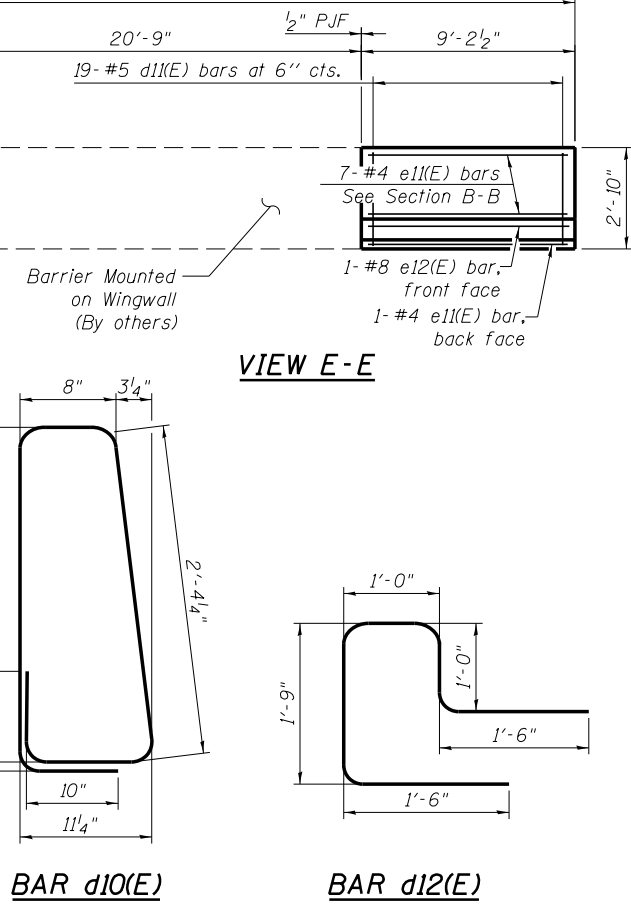
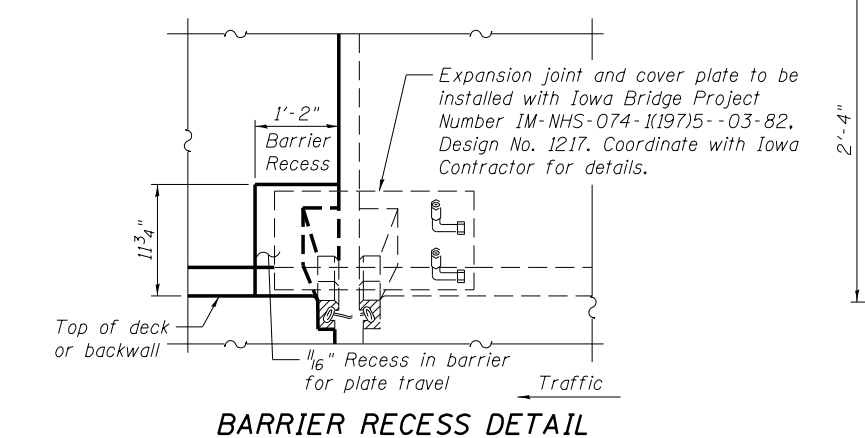
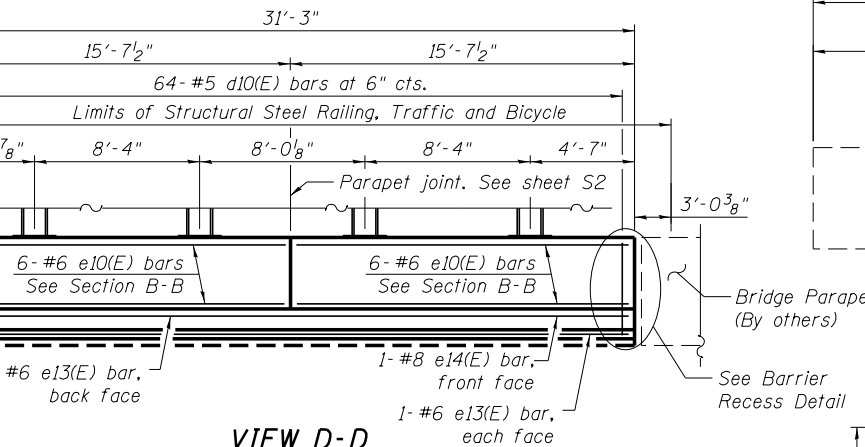
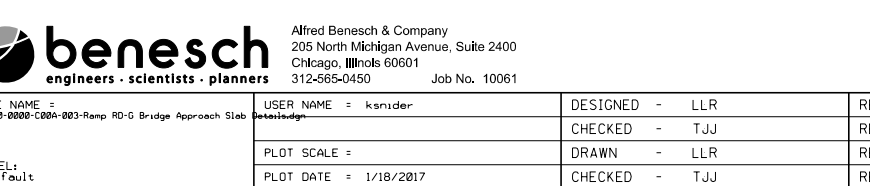
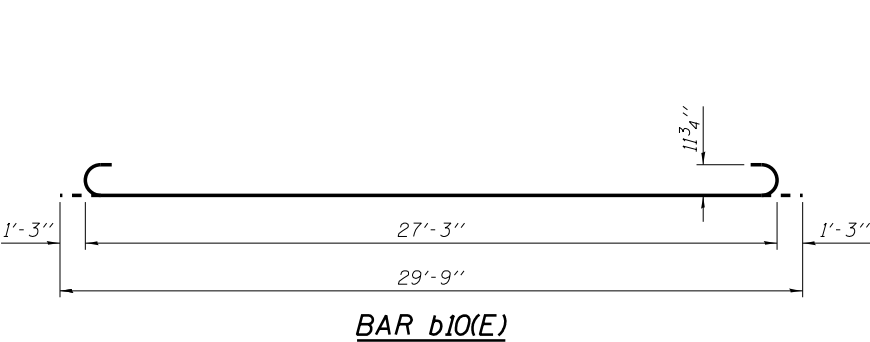
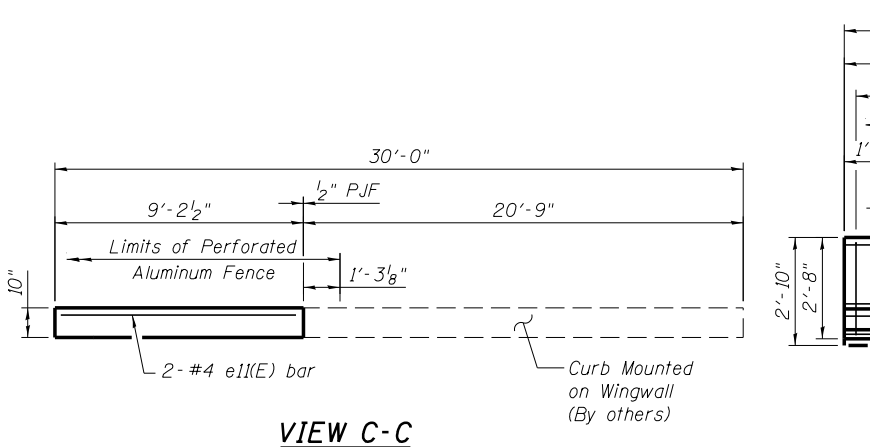
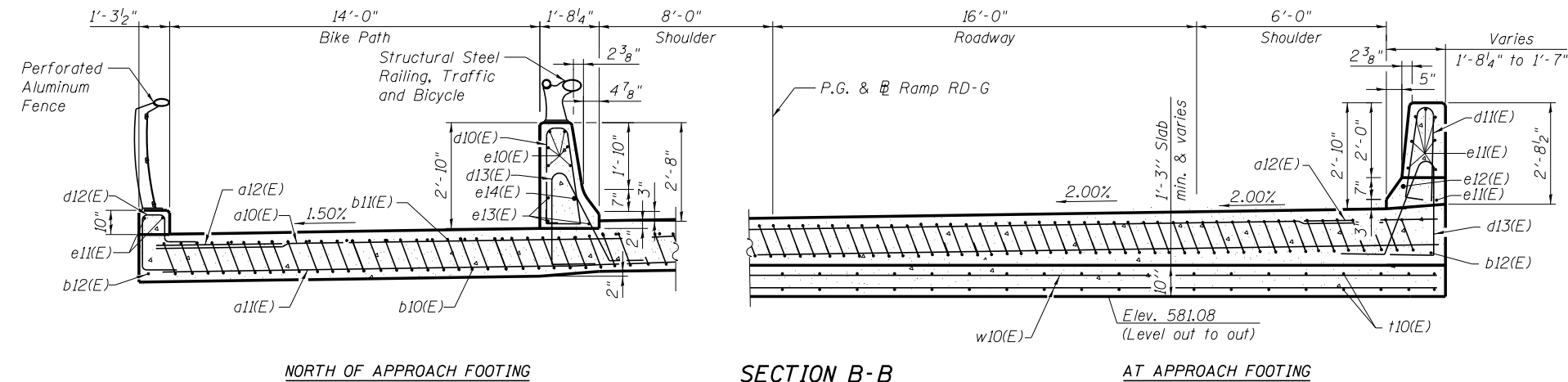
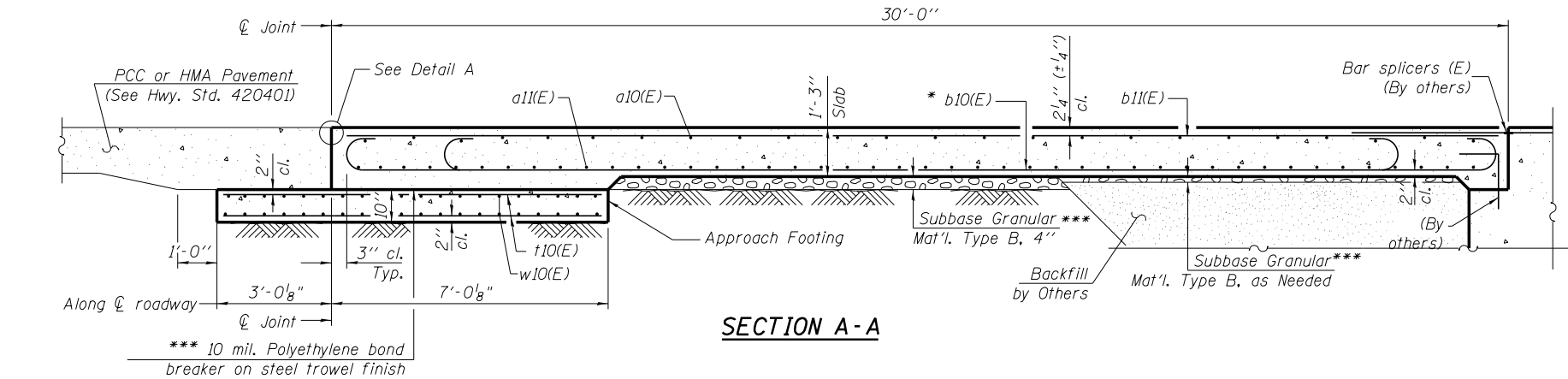
CONTRACT NO. 64C08

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

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1/18/2017



APPROACH SLAB
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	25	#4	45'-2"	
a11(E)	46	#5	45'-2"	
a12(E)	16	#6	6'-6"	
b10(E)	110	#9	29'-9"	
b11(E)	38	#4	29'-6"	
b12(E)	2	#4	8'-8"	
d10(E)	64	#5	8'-0"	
d11(E)	19	#5	5'-6"	
d12(E)	19	#5	6'-9"	
d13(E)	43	#5	7'-11"	
e10(E)	12	#6	15'-2"	
e11(E)	10	#4	8'-9"	
e12(E)	1	#8	8'-9"	
e13(E)	3	#6	30'-11"	
e14(E)	1	#8	30'-11"	
t10(E)	100	#4	9'-6"	
w10(E)	20	#5	48'-2"	
Bridge Deck Grooving		Sq. Yd.	146	
Protective Coat		Sq. Yd.	177	
Concrete Superstructure		Cu. Yd.	71.7	
Concrete Structures		Cu. Yd.	15.1	
Reinforcement Bars, Epoxy Coated		Pound	18,320	

benesch
engineers · scientists · planners

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

DESIGNED - LLR	REVISD -
CHECKED - TJJ	REVISD -
DRAWN - LLR	REVISD -
CHECKED - TJJ	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
RAMP RD-G

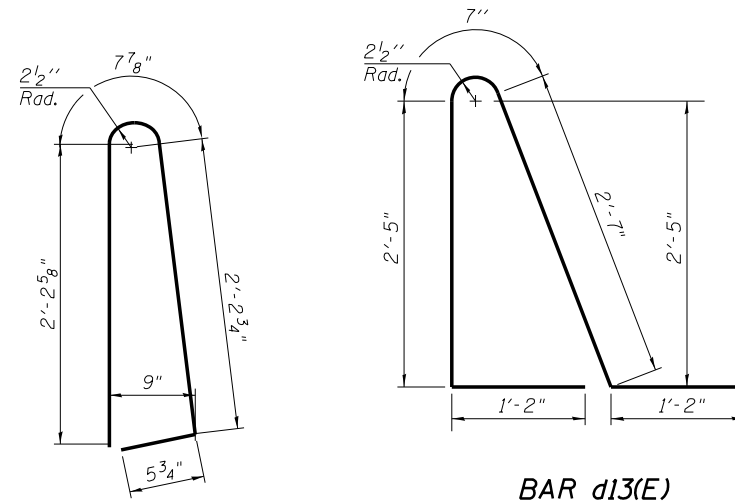
SHEET NO. SA3 OF SA12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	609
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

Notes:
See Sheet SA2 for Detail A.
See Aesthetic Details, Pedestrian Railing Detail Sheets 1-3 for Perforated Aluminum Fence.
See Anchorage Slab Details, Sheet AN16 for Structural Steel Railing, Traffic and Bicycle.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
Contractor shall coordinate work with adjacent contract: Iowa Bridge Project Number IM-NHS-074-1(197)5--03-82.

* Tilt #9 b10(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

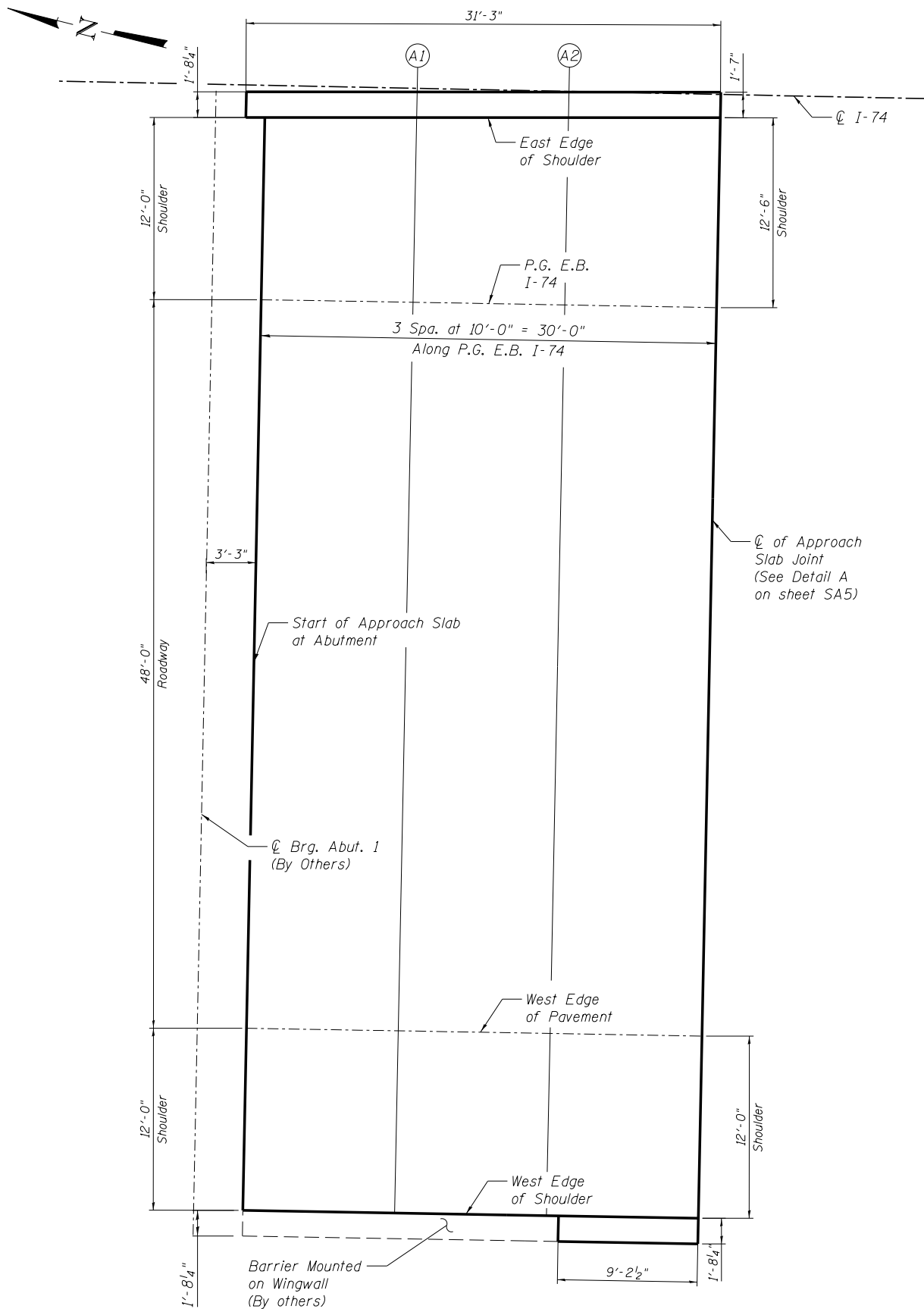


APPROACH SLAB
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	25	#4	45'-2"	
a11(E)	46	#5	45'-2"	
a12(E)	16	#6	6'-6"	
b10(E)	110	#9	29'-9"	
b11(E)	38	#4	29'-6"	
b12(E)	2	#4	8'-8"	
d10(E)	64	#5	8'-0"	
d11(E)	19	#5	5'-6"	
d12(E)	19	#5	6'-9"	
d13(E)	43	#5	7'-11"	
e10(E)	12	#6	15'-2"	
e11(E)	10	#4	8'-9"	
e12(E)	1	#8	8'-9"	
e13(E)	3	#6	30'-11"	
e14(E)	1	#8	30'-11"	
t10(E)	100	#4	9'-6"	
w10(E)	20	#5	48'-2"	
Bridge Deck Grooving		Sq. Yd.	146	
Protective Coat		Sq. Yd.	177	
Concrete Superstructure		Cu. Yd.	71.7	
Concrete Structures		Cu. Yd.	15.1	
Reinforcement Bars, Epoxy Coated		Pound	18,320	

BAR d10(E)

BAR d12(E)



PLAN

EAST EDGE OF SHOULDER

Location	Station (Along C I-74)	Offset (From P.G. E.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	12.01	590.97
A1	6747+06.75	12.17	590.86
A2	6746+96.75	12.34	590.76
C of Approach Slab Joint	6746+86.75	12.51	590.67

P.G. E.B. I-74

Location	Station (Along C I-74)	Offset (From P.G. E.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	0.00	591.21
A1	6747+06.75	0.00	591.10
A2	6746+96.75	0.00	591.01
C of Approach Slab Joint	6746+86.75	0.00	590.92

WEST EDGE OF PAVEMENT

Location	Station (Along C I-74)	Offset (From P.G. E.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	-48.00	590.73
A1	6747+06.78	-48.00	590.62
A2	6746+96.80	-48.00	590.53
C of Approach Slab Joint	6746+86.75	-48.00	590.44

WEST EDGE OF SHOULDER

Location	Station (Along C I-74)	Offset (From P.G. E.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	-60.00	590.49
A1	6747+06.78	-60.00	590.38
A2	6746+96.81	-60.00	590.29
C of Approach Slab Joint	6746+86.75	-60.00	590.20

NOTE:

1. Offset measured from P.G. EB I-74.



Job No. 10061

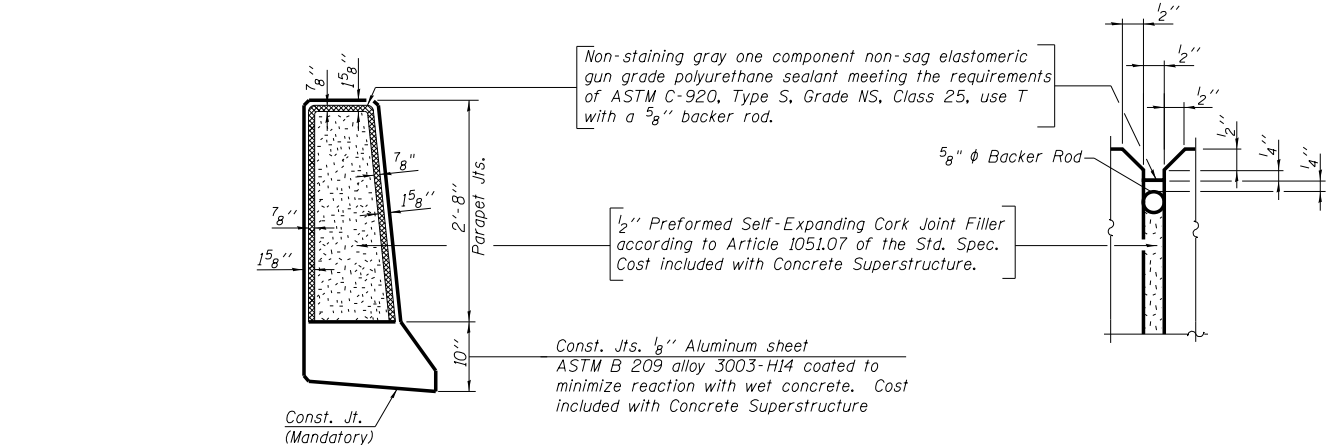
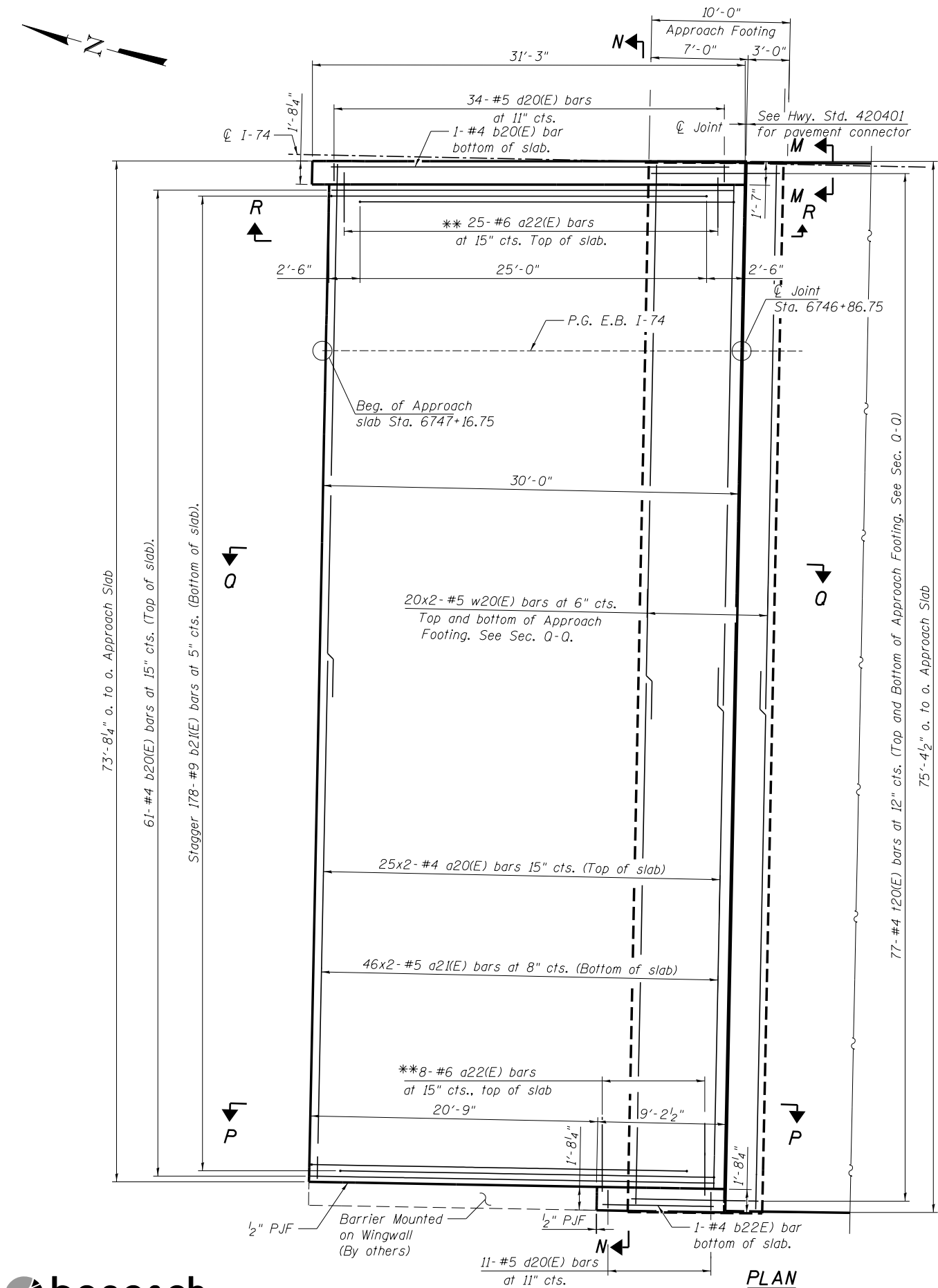
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

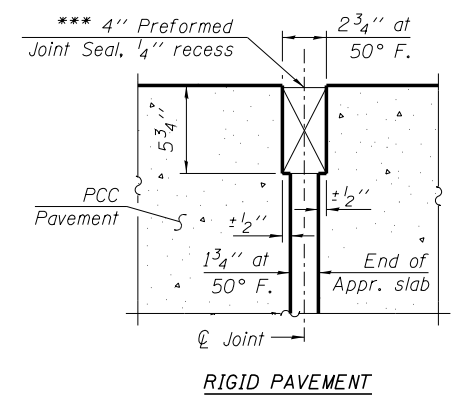
BRIDGE APPROACH SLAB ELEVATIONS
I-74 EASTBOUND

SHEET NO. SA4 OF SA12 SHEETS

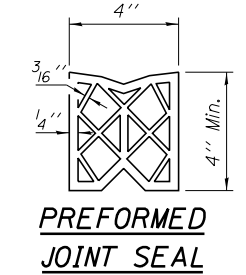
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	1504	610
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



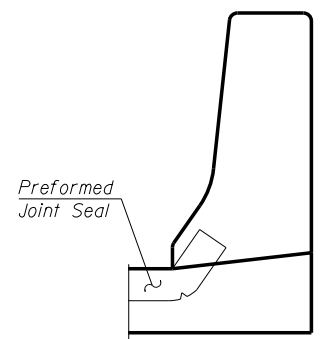
PARAPET JOINT DETAILS



DETAIL A



PREFORMED JOINT SEAL



VIEW M-M

Angle Preformed Joint Seal at 45° at parapet.

*** Cost included with Concrete Superstructure.

NOTE:

- 1. See sheet SA6 for Sections N-N & Q-Q and Views P-P & R-R.
- 2. a20(E) thru a22(E) bar spacings measured along P.G. E.B. I-74.
- 3. b20(E) & b22(E) bar spacings measured perpendicular to P.G. E.B. I-74.

MINIMUM BAR LAP

- (Approach)
- #4 bar = 2'-7"
- #5 bar = 3'-3"

* Tilt #9 b22(E) bars as required to maintain clearance.
** Space between a20(E) bars.



Job No. 10061

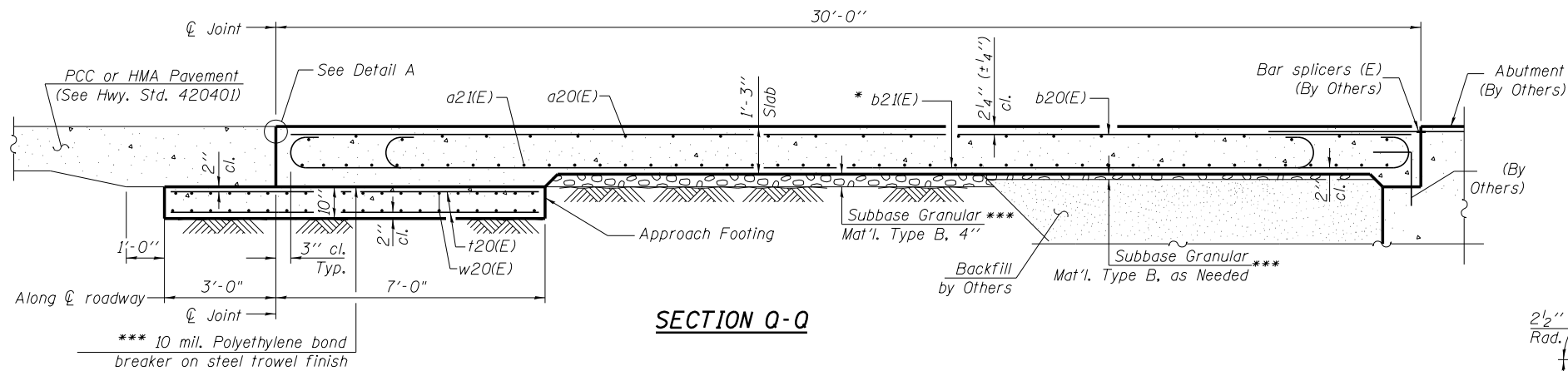
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

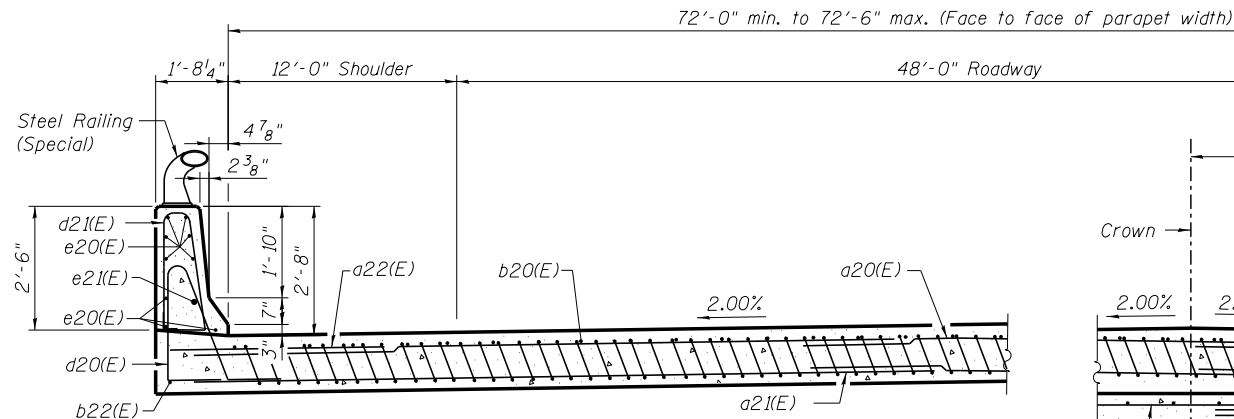
BRIDGE APPROACH SLAB PLAN
I-74 EASTBOUND

SHEET NO. SA5 OF SA12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	1504	611
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



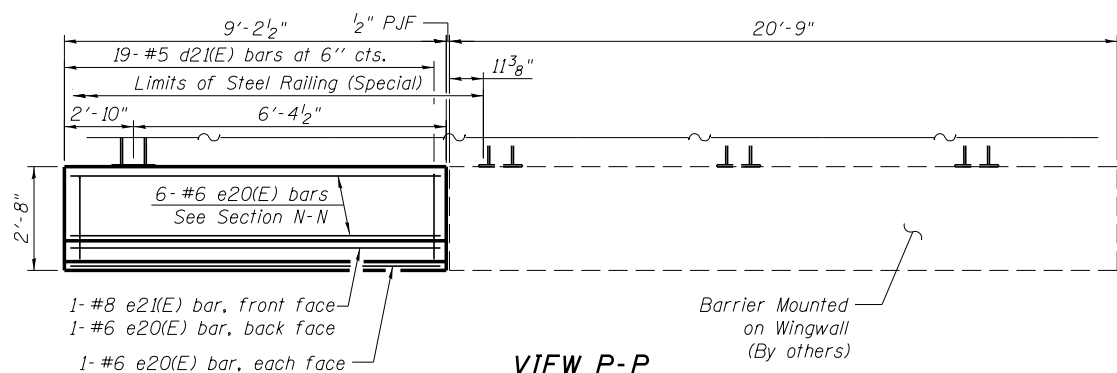
SECTION Q-Q



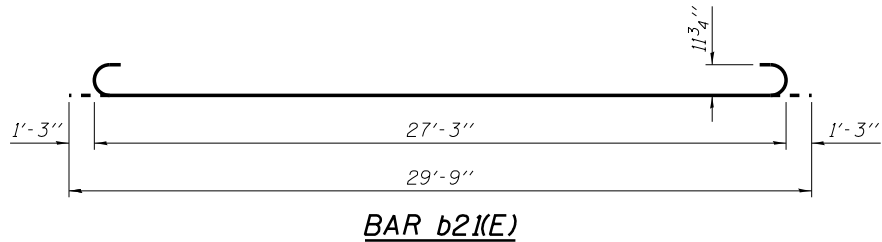
NORTH OF APPROACH FOOTING

SECTION N-N

(See Plan for dimensions not shown)

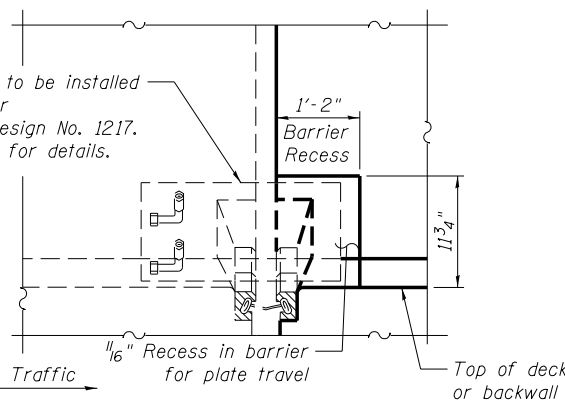


VIEW P-P

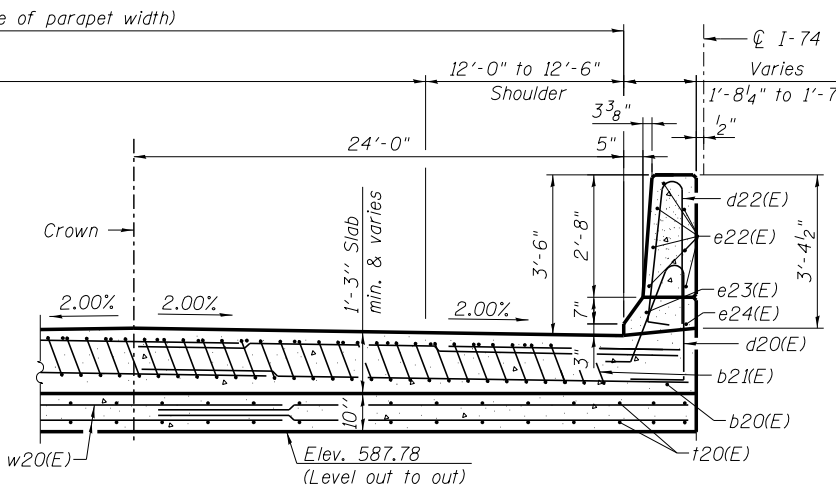


BAR b21(E)

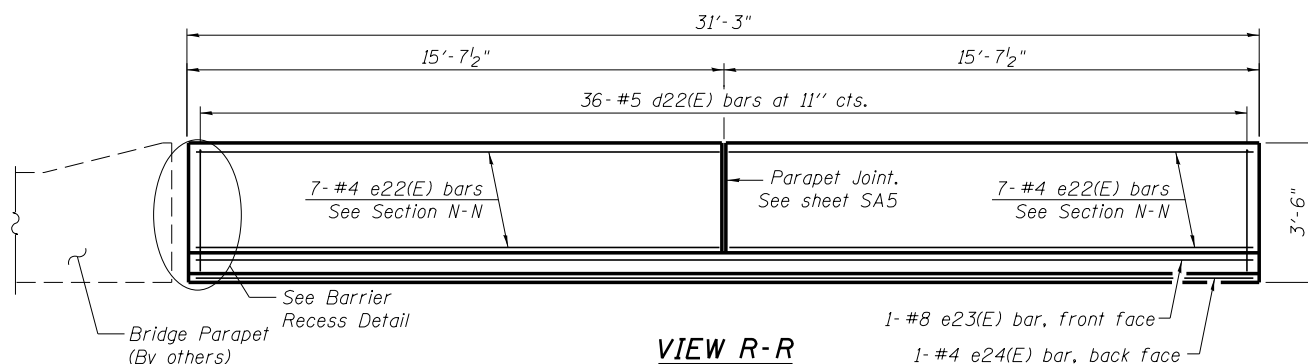
Expansion joint and cover plate to be installed with Iowa Bridge Project Number IM-NHS-074-1(197)5--03-82, Design No. 1217. Coordinate with Iowa Contractor for details.



BARRIER RECESS DETAIL



AT APPROACH FOOTING



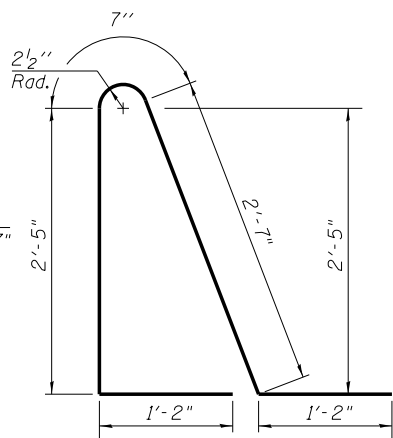
VIEW R-R

Notes:

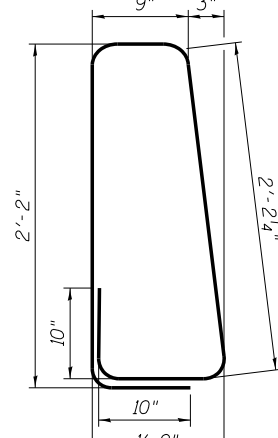
See Sheet SA5 for Detail A.
See Anchorage Slab Details, Sheet AN18 for Steel Railing (Special).
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
Contractor shall coordinate work with adjacent contract: Iowa Bridge Project Number IM-NHS-074-1(197)5--03-82.

* Tilt #9 b21(E) bars as required to maintain clearance.

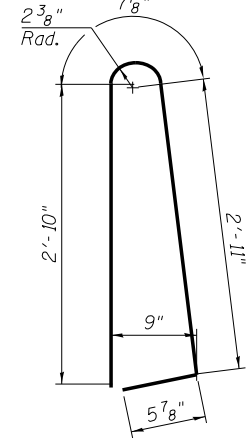
*** Cost included with Concrete Superstructure.



BAR d20(E)



BAR d21(E)



BAR d22(E)

APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	50	#4	37'-11"	
a21(E)	92	#5	38'-3"	
a22(E)	33	#6	6'-6"	
b20(E)	62	#4	29'-8"	
b21(E)	178	#9	29'-9"	
b22(E)	1	#4	8'-9"	
d20(E)	45	#5	7'-11"	
d21(E)	19	#5	7'-9"	
d22(E)	36	#5	6'-10"	
e20(E)	9	#6	8'-8"	
e21(E)	1	#8	8'-8"	
e22(E)	14	#4	15'-1"	
e23(E)	1	#8	29'-11"	
e24(E)	1	#4	29'-11"	
t20(E)	154	#4	9'-6"	
w20(E)	80	#5	39'-3"	
Bridge Deck Grooving		Sq. Yd.	235	
Protective Coat		Sq. Yd.	262	
Concrete Superstructure		Cu. Yd.	111.5	
Concrete Structures		Cu. Yd.	23.4	
Reinforcement Bars, Epoxy Coated		Pound	29,920	



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

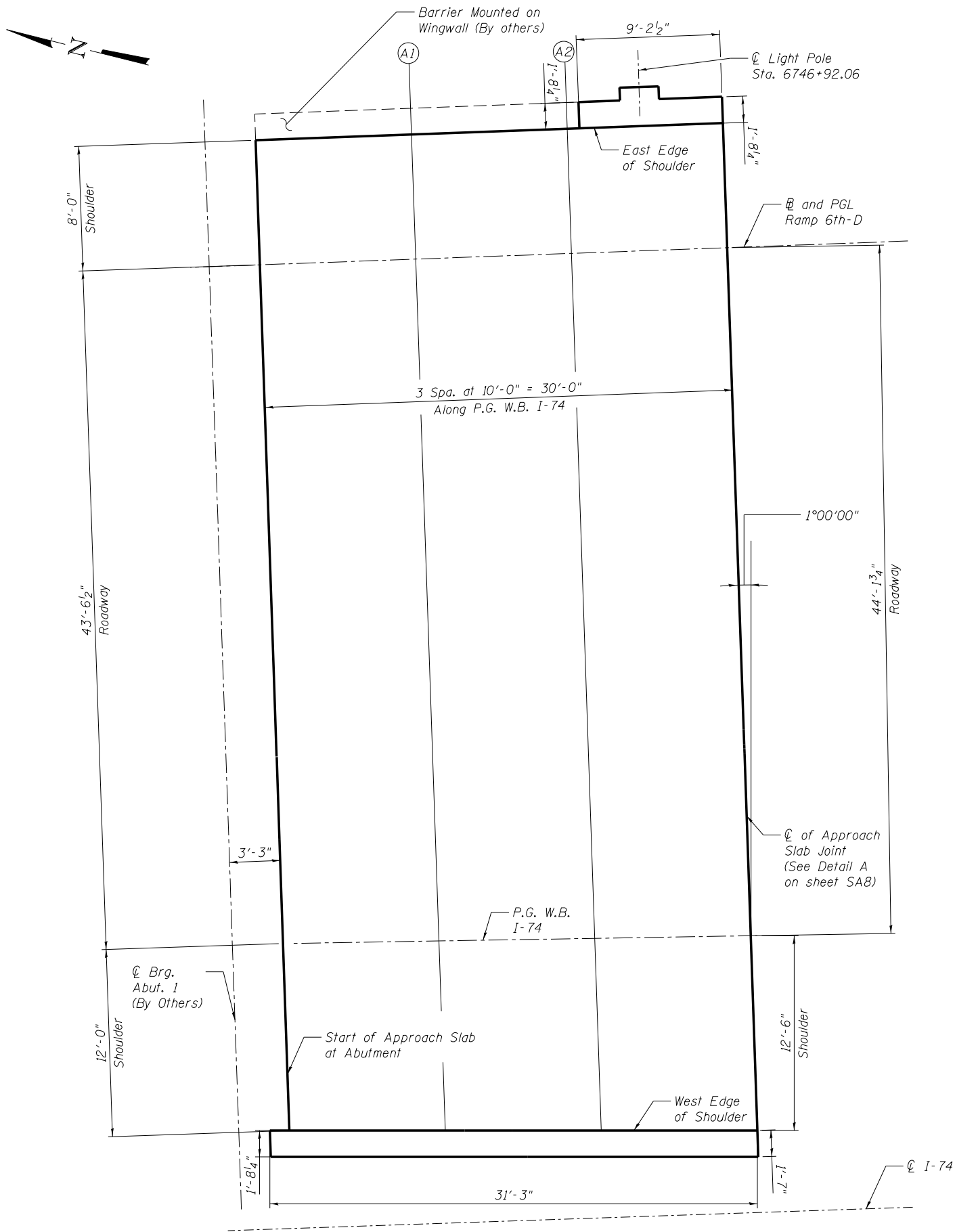
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		CHECKED - TJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
I-74 EASTBOUND

SHEET NO. SA6 OF SA12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R & 81-1HVBR)	ROCK ISLAND	1504	612
				CONTRACT NO. 64C08
				FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT



EAST EDGE OF SHOULDER

Location	Station (Along C I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	-51.54	590.66
A1	6747+06.75	-51.74	590.55
A2	6746+96.75	-51.94	590.45
C of Approach Slab Joint	6746+86.75	-52.14	590.35

RAMP 6TH-D

Location	Station (Along C I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	-43.54	591.21
A1	6747+06.75	-43.74	591.10
A2	6746+96.75	-43.94	591.01
C of Approach Slab Joint	6746+86.75	-44.14	590.92

P.G. W.B. I-74

Location	Station (Along C I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	0.00	590.82
A1	6747+06.75	0.00	590.71
A2	6746+96.75	0.00	590.61
C of Approach Slab Joint	6746+86.75	0.00	590.51

WEST EDGE OF SHOULDER

Location	Station (Along C I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	6747+16.75	12.00	590.97
A1	6747+06.75	12.17	590.86
A2	6746+96.75	12.33	590.76
C of Approach Slab Joint	6746+86.75	12.50	590.67

NOTE:

1. Offset measured from P.G. W.B. I-74.



Job No. 10061

PLAN

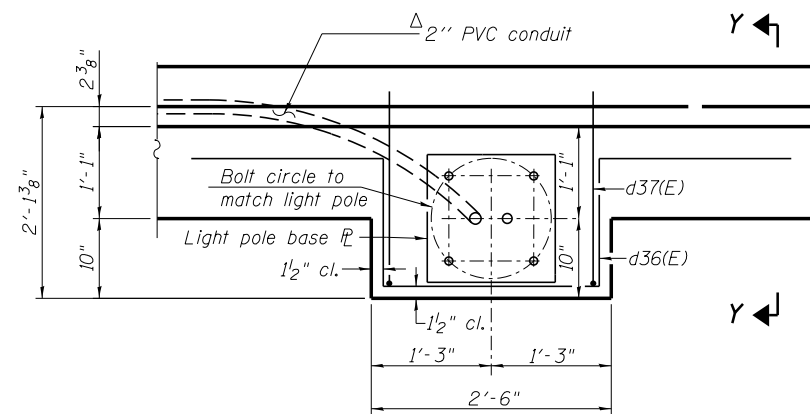
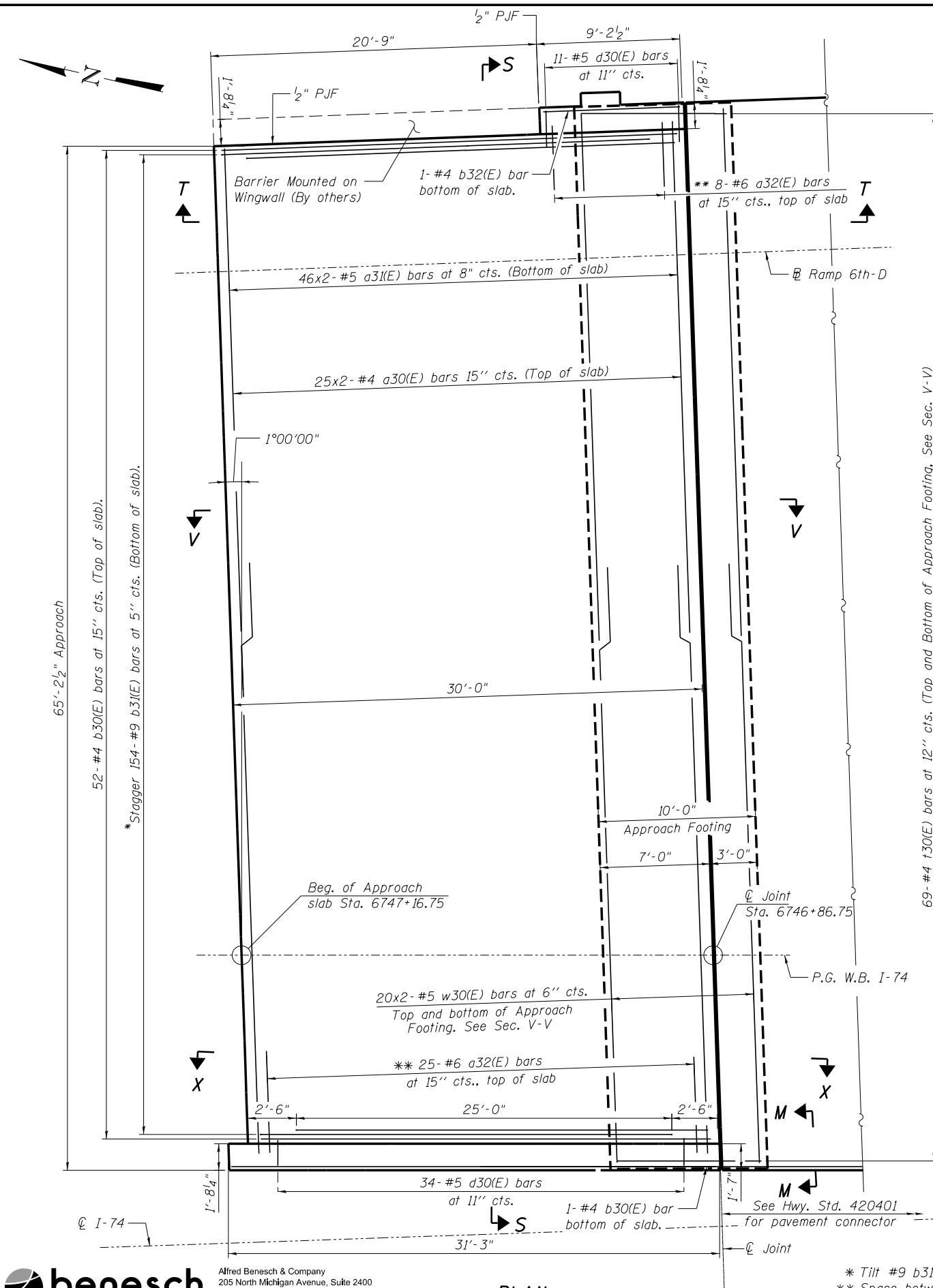
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

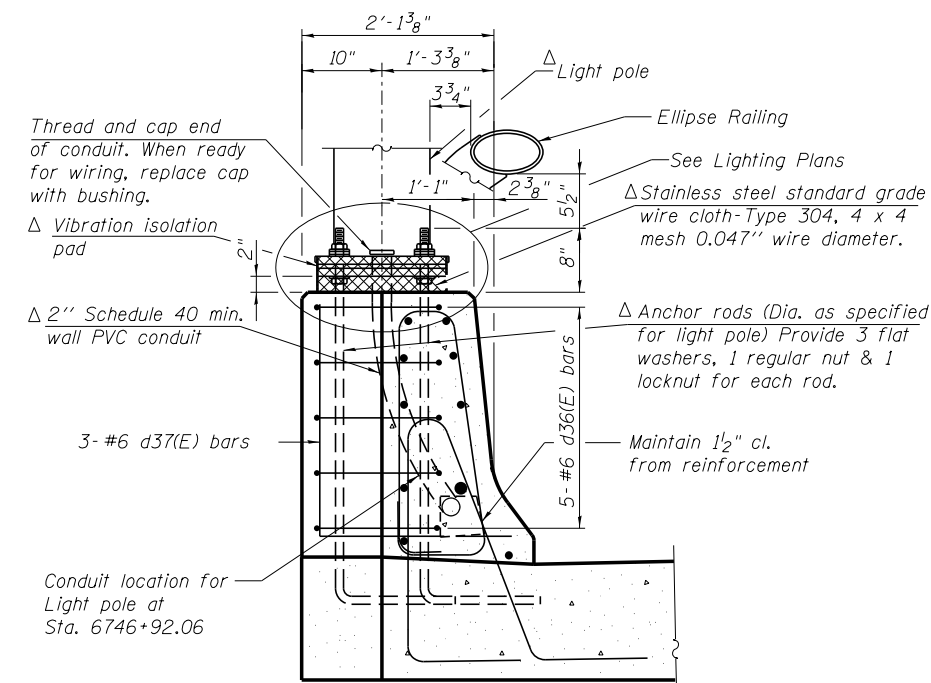
BRIDGE APPROACH SLAB ELEVATIONS
I-74 WESTBOUND

SHEET NO. SA7 OF SA12 SHEETS

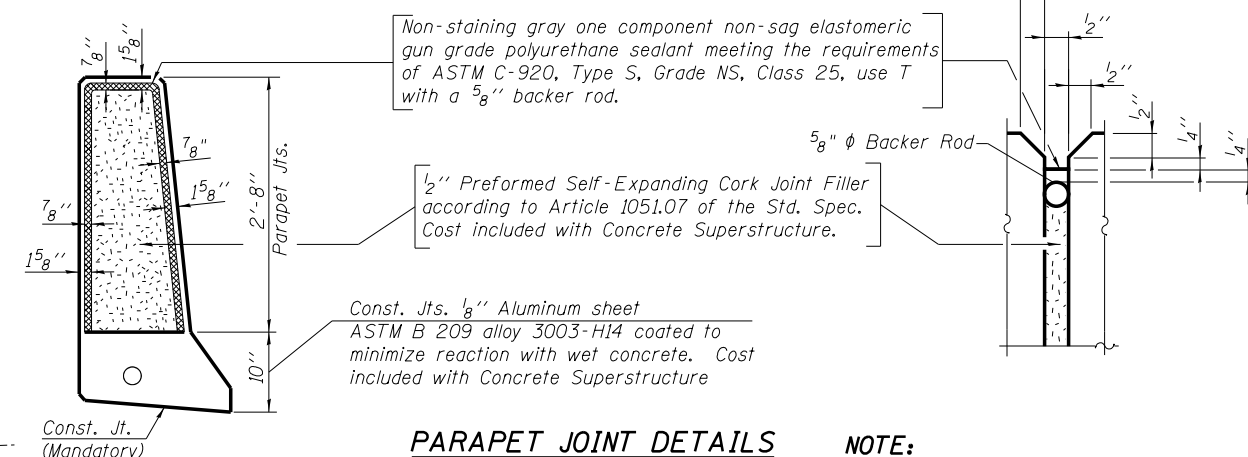
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	1504	613
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



Note: Cost of Anchor rods included with concrete superstructure

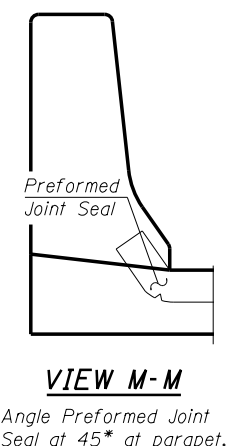
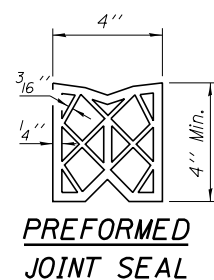
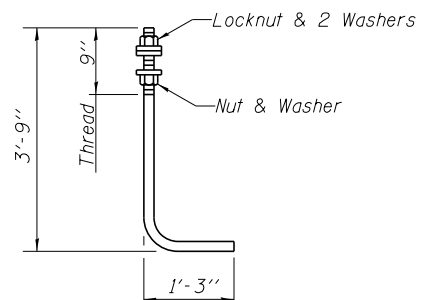
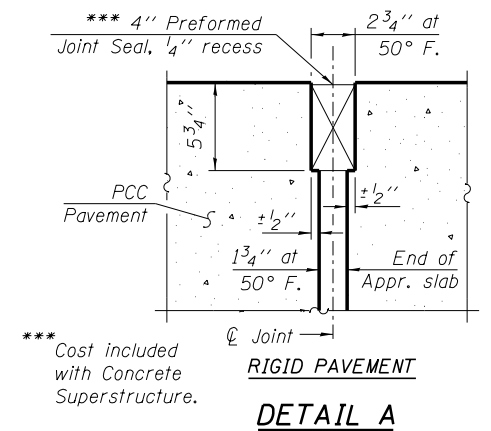


Δ See Lighting Plans for Light Pole details and pay items.

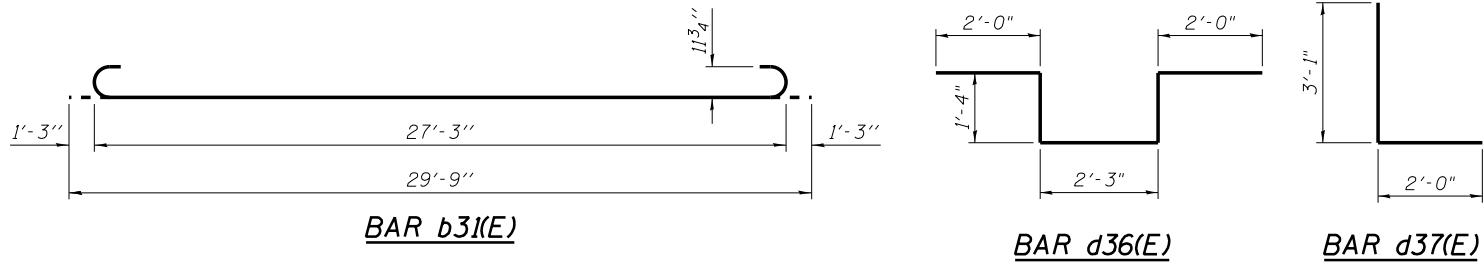
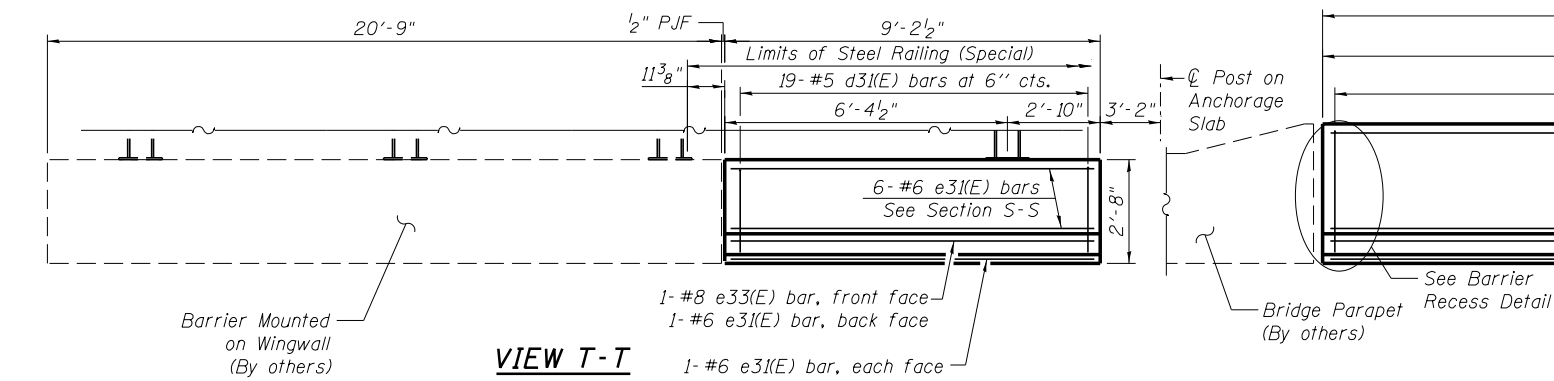
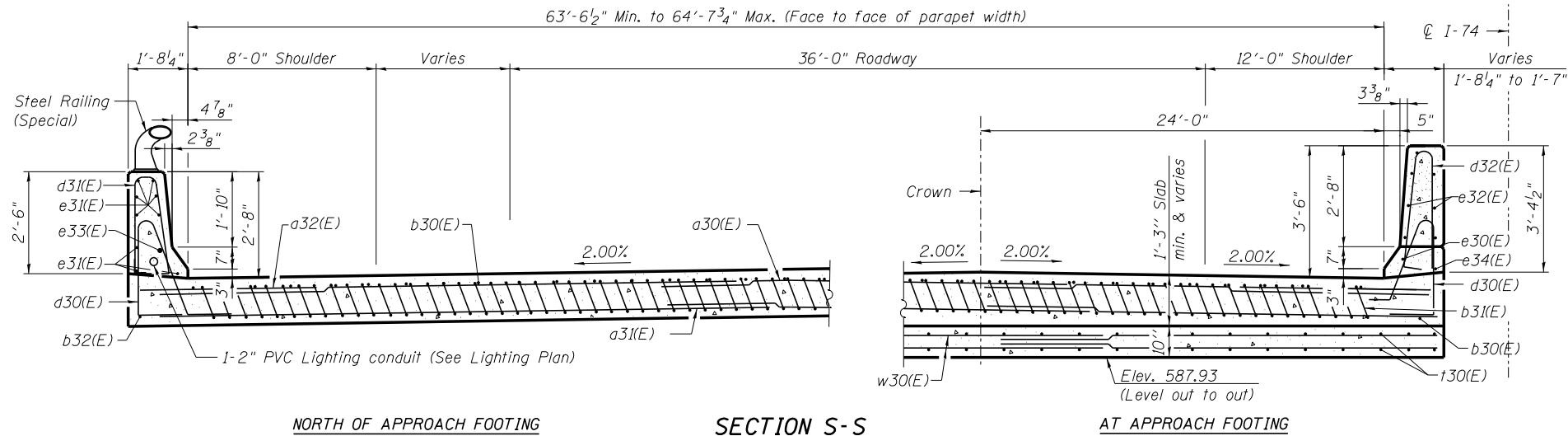
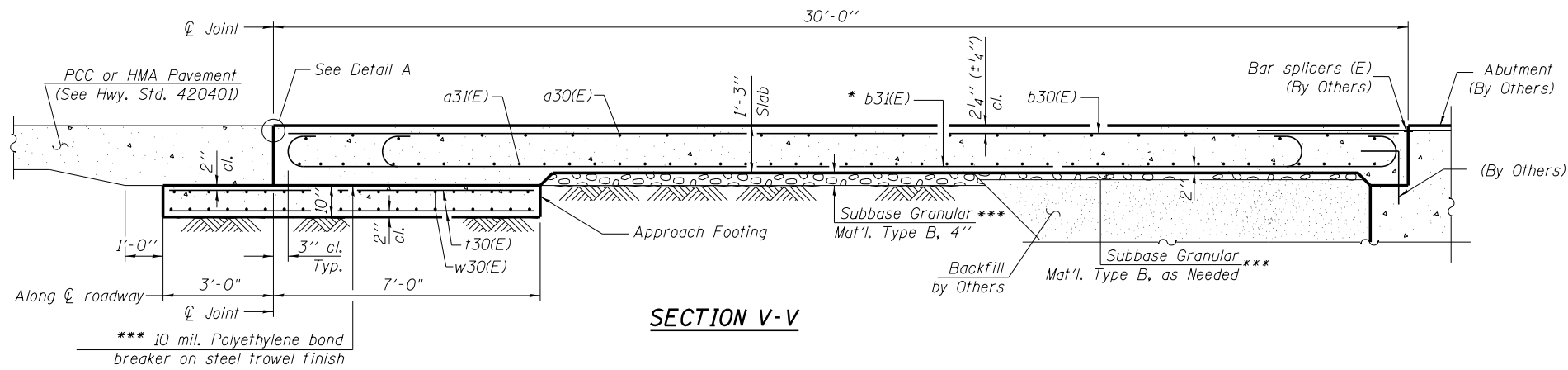


NOTE:

1. See sheet SA9 for Sections S-S & V-V and Views T-T & X-X.
2. a30(E) thru a32(E) bar spacings measured along P.G W.B. I-74.
3. b30(E) & b31(E) bar spacings measured perpendicular to P.G W.B. I-74.
4. Maskwall not shown for clarity.

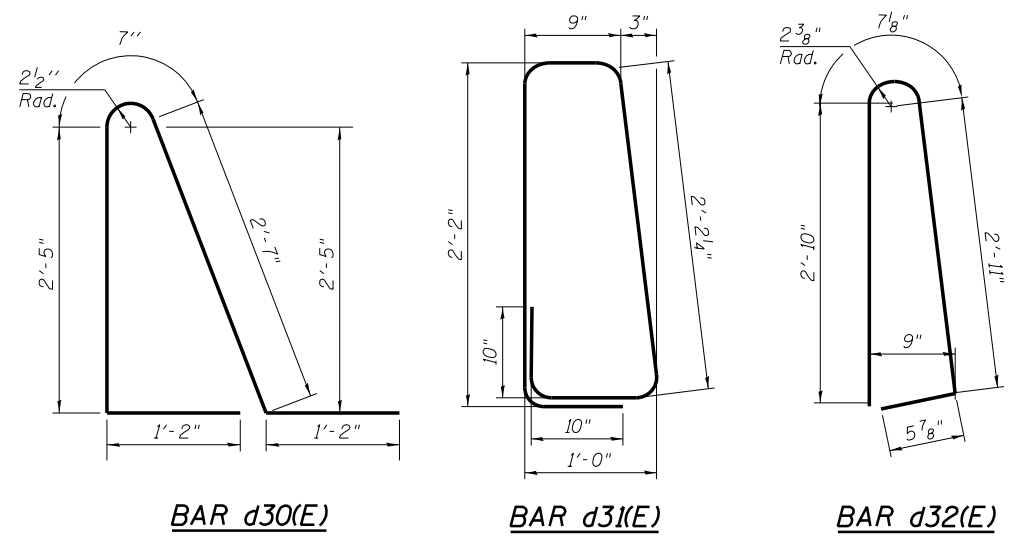


MINIMUM BAR LAP
(Approach)
#4 bar = 2'-7"
#5 bar = 3'-3"



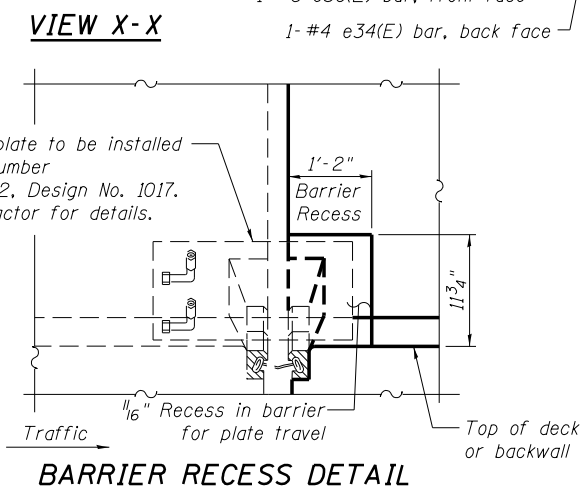
Notes:
 See Sheet SA8 for Detail A.
 See Anchorage Slab Details, Sheet AN18 for Steel Railing (Special).
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 Contractor shall coordinate work with adjacent contract: Iowa Bridge Project Number IM-NHS-074-1(197)5--03-82.

* Tilt #9 b31(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	50	#4	33'-8"	
a31(E)	92	#5	34'-0"	
a32(E)	33	#6	6'-6"	
b30(E)	53	#4	29'-8"	
b31(E)	154	#9	29'-9"	
b32(E)	1	#4	8'-9"	
d30(E)	45	#5	7'-11"	
d31(E)	19	#5	7'-9"	
d32(E)	36	#5	6'-10"	
d36(E)	5	#6	8'-11"	
d37(E)	3	#6	5'-1"	
e30(E)	1	#8	29'-11"	
e31(E)	9	#6	8'-8"	
e32(E)	14	#4	15'-1"	
e33(E)	1	#8	8'-8"	
e34(E)	1	#4	29'-11"	
t30(E)	138	#4	9'-6"	
w30(E)	80	#5	35'-6"	
Bridge Deck Grooving				Sq. Yd. 207
Protective Coat				Sq. Yd. 234
Concrete Superstructure				Cu. Yd. 100.0
Concrete Structures				Cu. Yd. 21.0
Reinforcement Bars, Epoxy Coated				Pound 26,440



Expansion joint and cover plate to be installed with Iowa Bridge Project Number IM-NHS-074-1(197)5--03-82, Design No. 1017. Coordinate with Iowa Contractor for details.

benesch
 engineers - scientists - planners
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

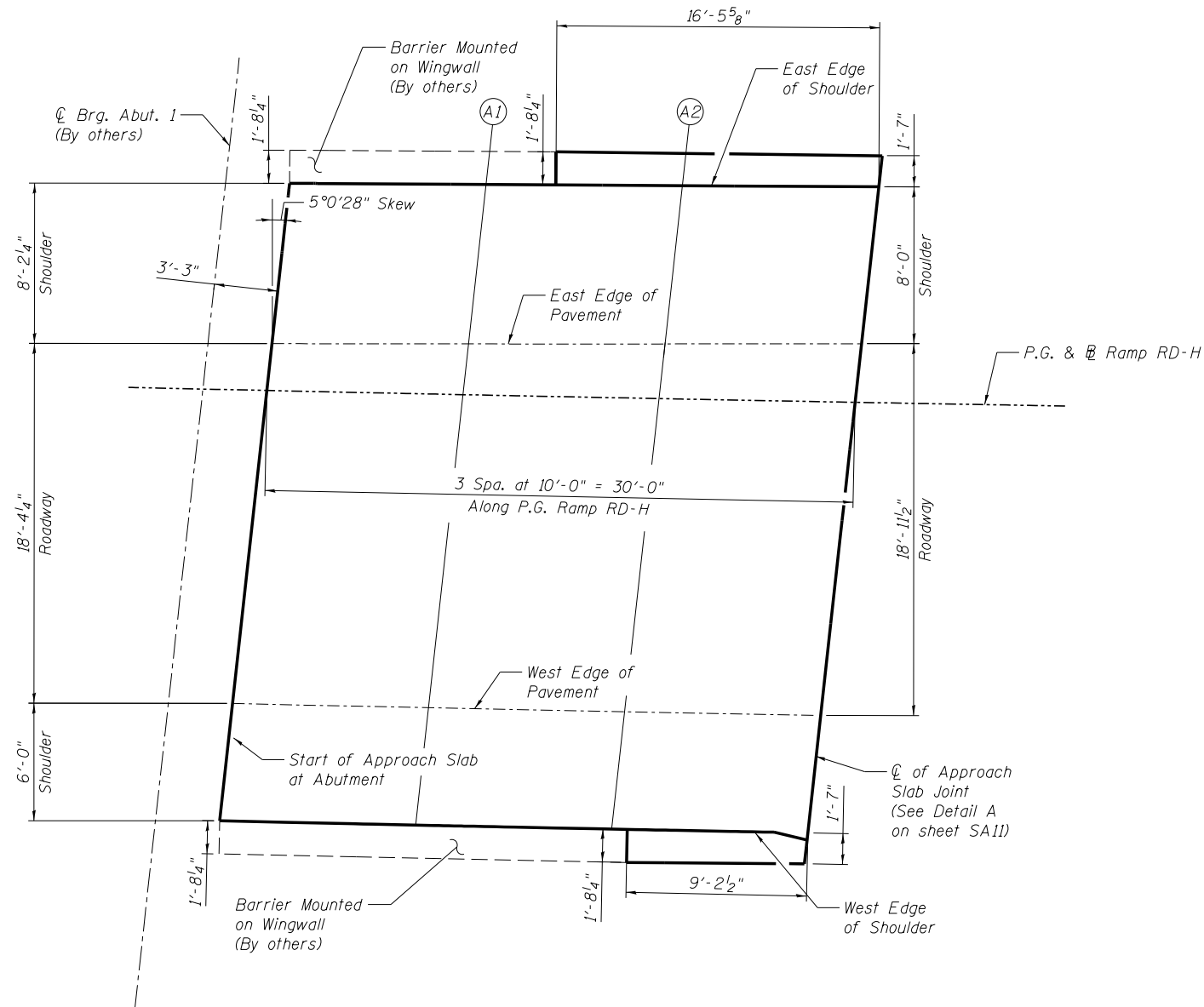
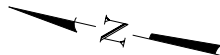
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
I-74 WESTBOUND

SHEET NO. SA9 OF SA12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	615
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



PLAN

NOTE:

1. Offset measured from P.G. Ramp RD-H.

EAST EDGE OF SHOULDER

Location	Station (Along B Ramp RD-H)	Offset (From P.G. Ramp RD-H)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	217+57.22	10.59	586.74
A1	217+47.20	10.74	586.42
A2	217+37.17	10.88	586.09
℄ of Approach Slab Joint	217+27.15	11.01	585.76

EAST EDGE OF PAVEMENT

Location	Station (Along B Ramp RD-H)	Offset (From P.G. Ramp RD-H)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	217+57.93	2.39	586.93
A1	217+47.91	2.59	586.60
A2	217+37.90	2.79	586.27
℄ of Approach Slab Joint	217+27.88	2.99	585.94

B RAMP RD-H

Location	Station (Along B Ramp RD-H)	Offset (From P.G. Ramp RD-H)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	217+58.15	0.00	586.99
A1	217+48.15	0.00	586.66
A2	217+38.15	0.00	586.33
℄ of Approach Slab Joint	217+28.15	0.00	586.01

WEST EDGE OF PAVEMENT

Location	Station (Along B Ramp RD-H)	Offset (From P.G. Ramp RD-H)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	217+59.55	-16.00	587.35
A1	217+49.57	-16.00	587.03
A2	217+39.59	-16.00	586.70
℄ of Approach Slab Joint	217+29.61	-16.00	586.38

WEST EDGE OF SHOULDER

Location	Station (Along B Ramp RD-H)	Offset (From P.G. Ramp RD-H)	Theoretical Grade Elevations
Start of Approach Slab at Abut.	217+60.08	-22.00	587.49
A1	217+50.11	-22.00	587.16
A2	217+40.13	-22.00	586.84
℄ of Approach Slab Joint	217+30.16	-22.00	586.51



Job No. 10061

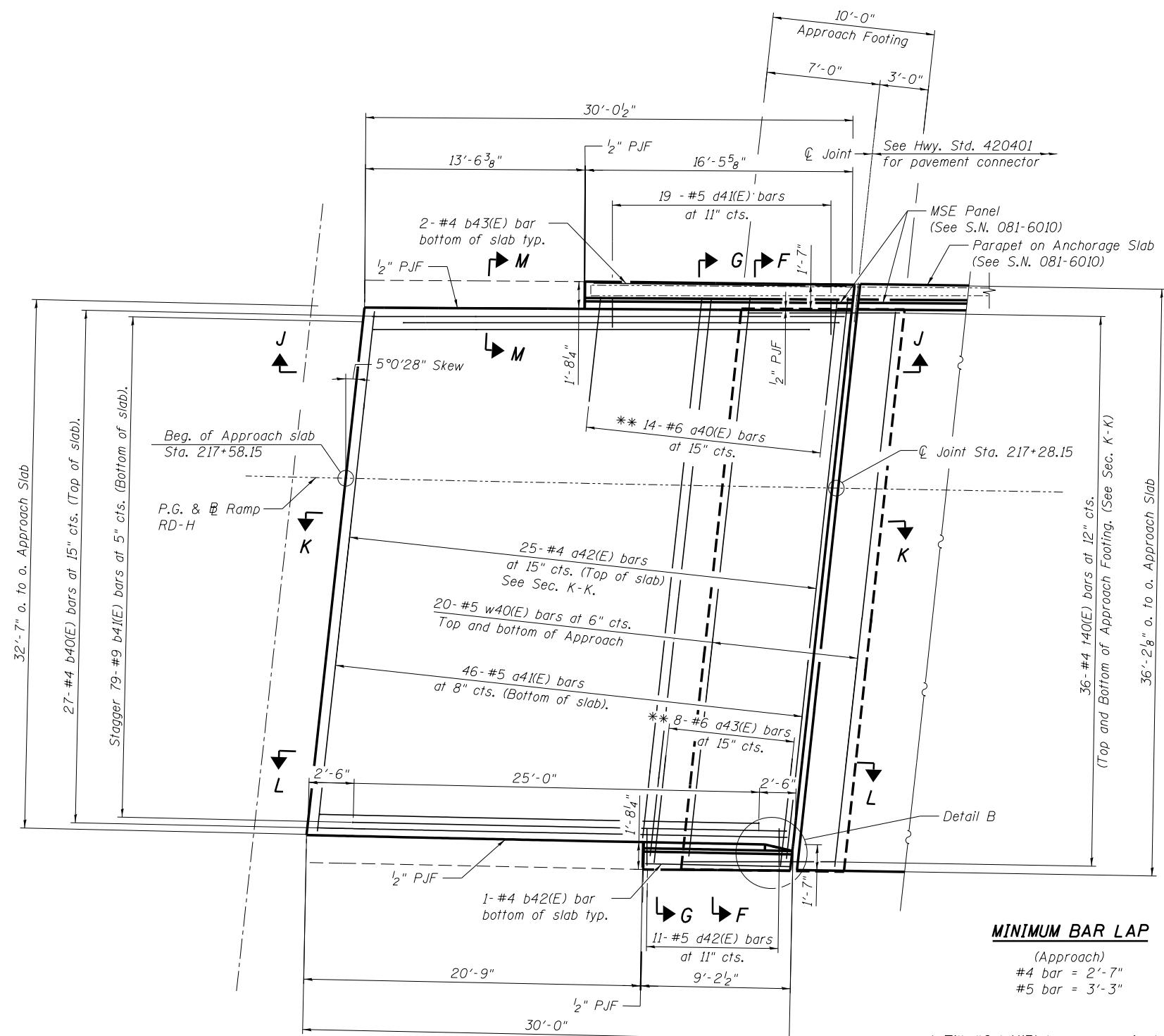
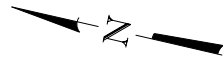
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MODEL: Default	PLOT SCALE : 1/18/2017	PLOT DATE : 1/18/2017	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB ELEVATIONS
RAMP RD-H

SHEET NO. SA10 OF SA12 SHEETS

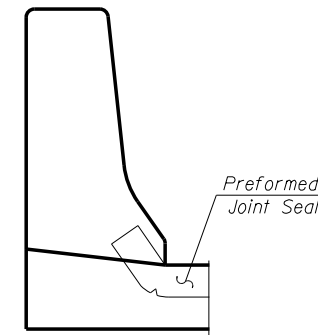
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74	(81-1R & 81-IHVBR	ROCK ISLAND	1504	616
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP

(Approach)
#4 bar = 2'-7"
#5 bar = 3'-3"

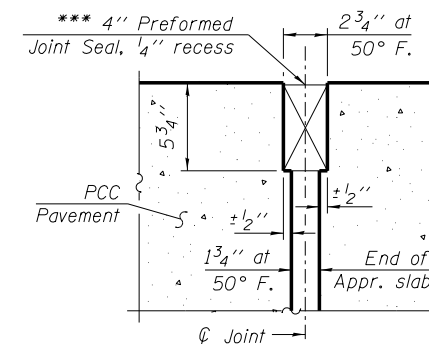
* Tilt #9 b41(E) bars as required to maintain clearance.
** Space between a42(E) bars.



VIEW M-M

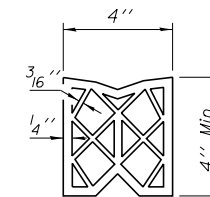
Angle Preformed Joint Seal at 45° at parapet.

*** Cost included with Concrete Superstructure.

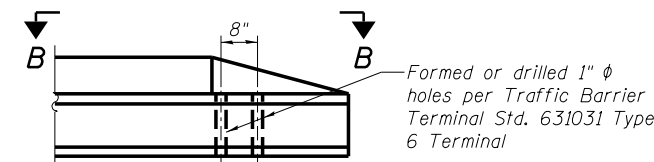


RIGID PAVEMENT

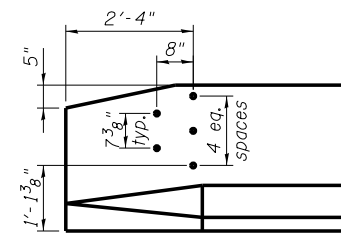
DETAIL A



PREFORMED JOINT SEAL



DETAIL B



VIEW B-B

NOTES:

- See sheet SA12 for Sections F-F, G-G & K-K and Views J-J & L-L.
- a40(E) thru a42(E) bar spacings measured along P.G Ramp RD-H.
- b40(E) & b41(E) bar spacings measured perpendicular to P.G Ramp RD-H.
- Maskwall not shown for clarity.



Job No. 10061

FILE NAME = 000-0000-C00A-011-Ramp RD-H Bridge Approach Slab	USER NAME = ksnider	DESIGNED - LLR	REVISED -
		CHECKED - TJJ	REVISED -
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	PLOT DATE = 1/18/2017	CHECKED - TJJ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

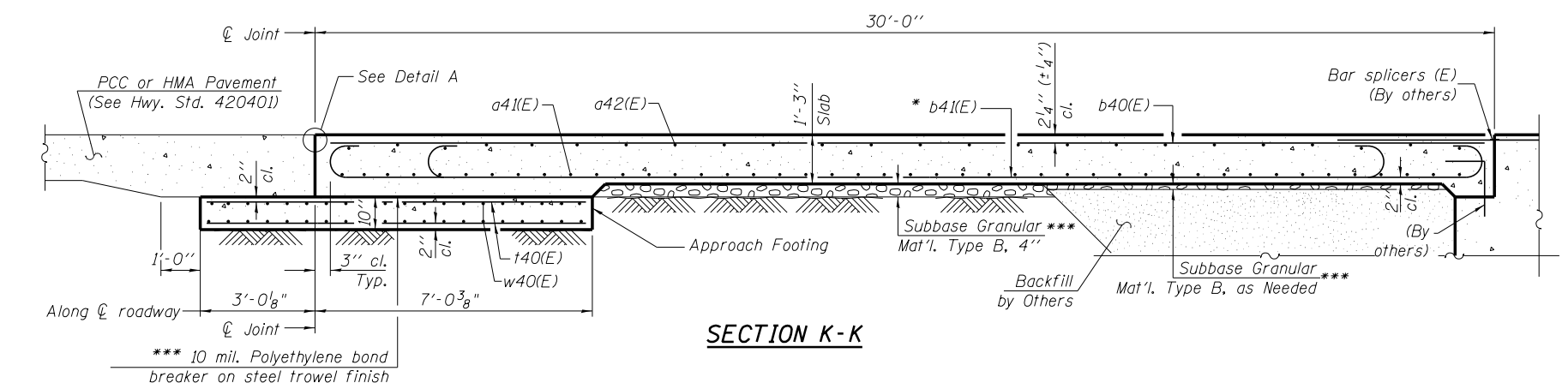
**BRIDGE APPROACH SLAB PLAN
RAMP RD-H**

SHEET NO. SA11 OF SA12 SHEETS

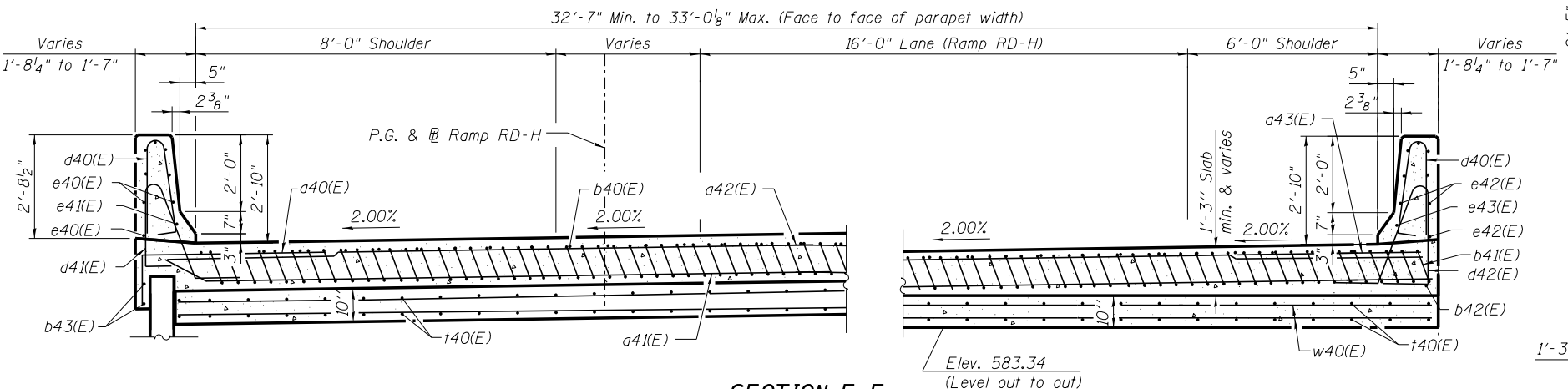
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVBR	ROCK ISLAND	1504	617
CONTRACT NO. 64C08				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

Notes:
See sheet SA11 for Detail A.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
Contractor shall coordinate work with adjacent contract: Iowa Bridge Project
Number IM-NHS-074-1(197)5--03-82.

* Tilt #9 b41(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

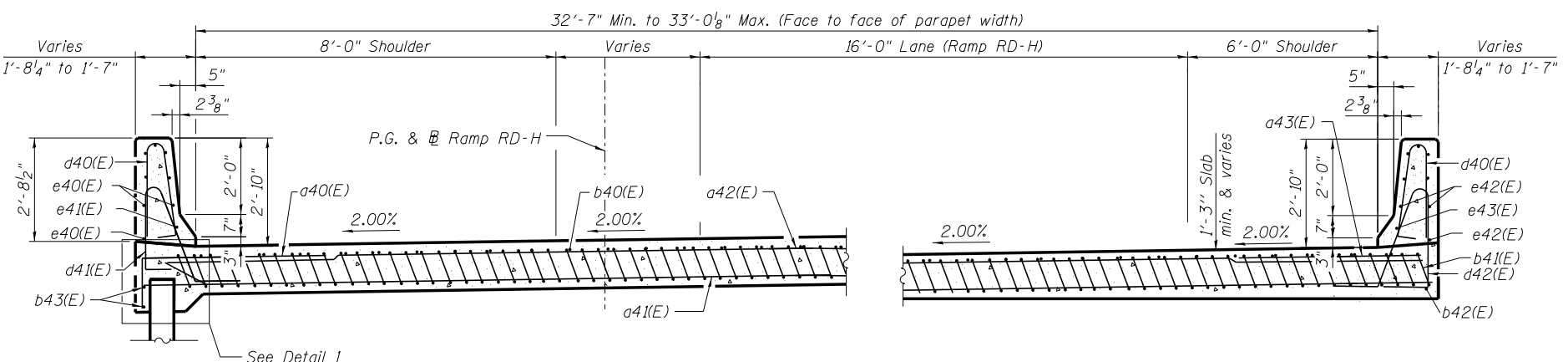


SECTION K-K



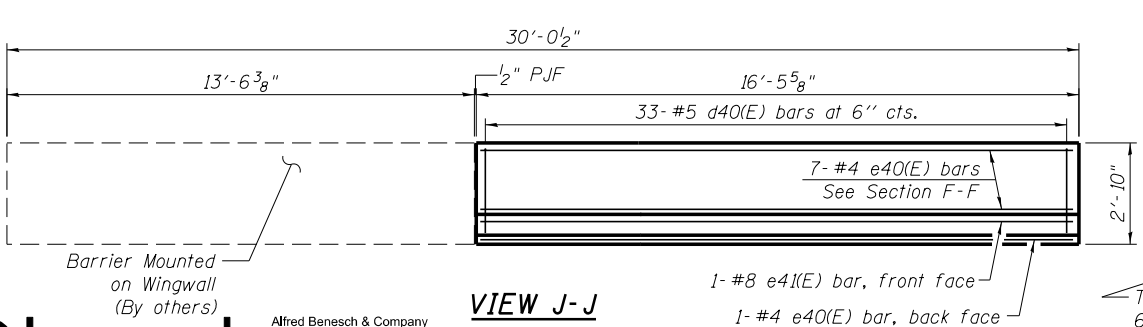
SECTION F-F

(See Plan for dimensions not shown)
(Near Footing)

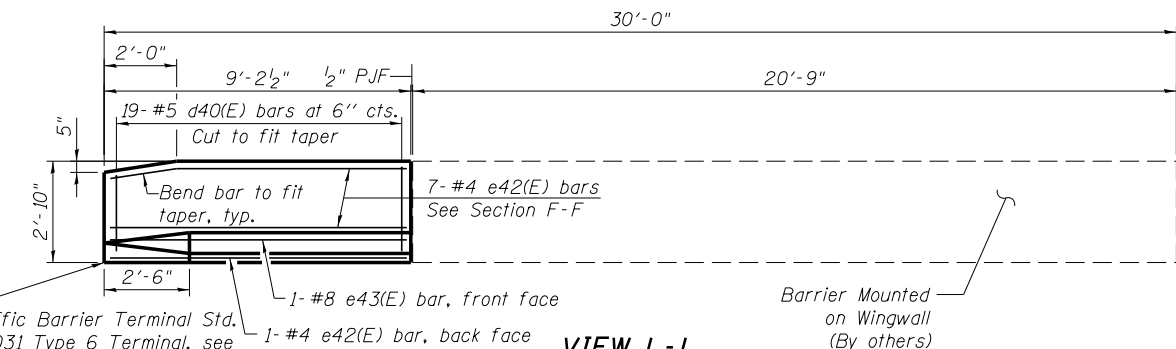


SECTION G-G

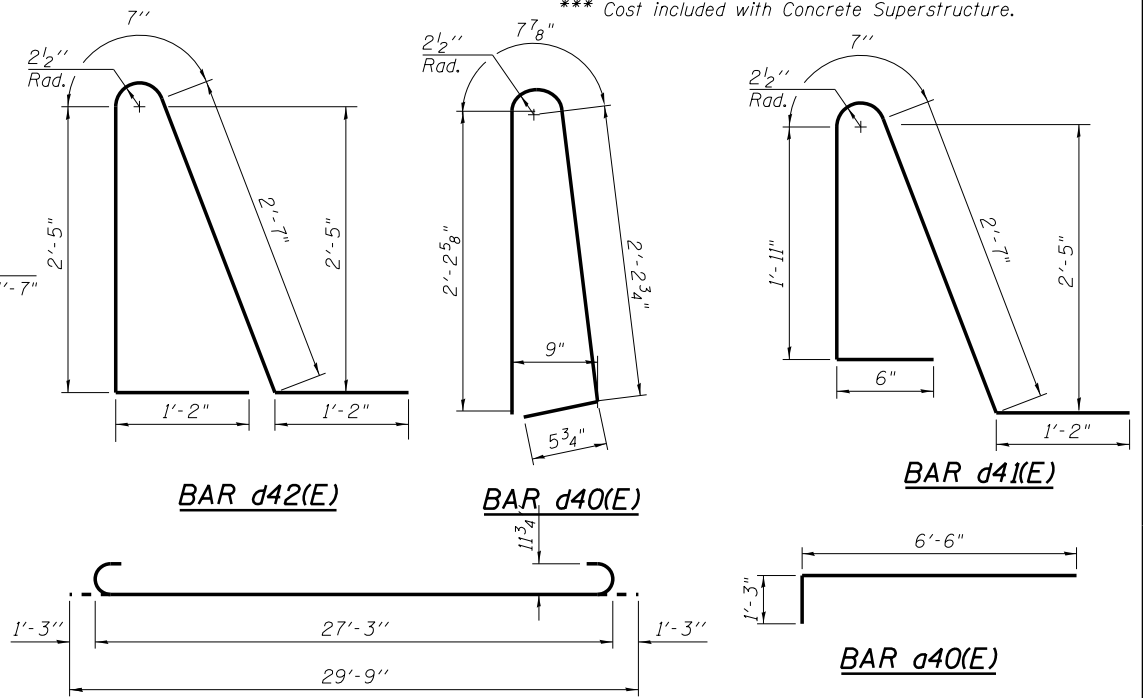
(See Plan for dimensions not shown)



VIEW J-J



VIEW L-L



BAR d42(E)

BAR d40(E)

BAR d41(E)

BAR a40(E)

BAR b41(E)

APPROACH SLAB
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a40(E)	14	#6	7'-9"	
a41(E)	46	#5	32'-0"	
a42(E)	25	#4	32'-0"	
a43(E)	8	#6	6'-6"	
b40(E)	27	#4	29'-8"	
b41(E)	79	#9	29'-9"	
b42(E)	1	#4	8'-10"	
b43(E)	2	#4	16'-1"	
d40(E)	52	#5	5'-7"	
d41(E)	19	#5	6'-9"	
d42(E)	11	#5	7'-11"	
e40(E)	8	#4	16'-0"	
e41(E)	1	#8	16'-0"	
e42(E)	8	#4	8'-9"	
e43(E)	1	#8	8'-9"	
t40(E)	72	#4	9'-6"	
w40(E)	40	#5	34'-2"	
Protective Coat		Sq. Yd.	121	
Bridge Deck Grooving		Sq. Yd.	103	
Concrete Superstructure		Cu. Yd.	52.1	
Concrete Structures		Cu. Yd.	11.0	
Reinforcement Bars, Epoxy Coated		Pound	13,480	

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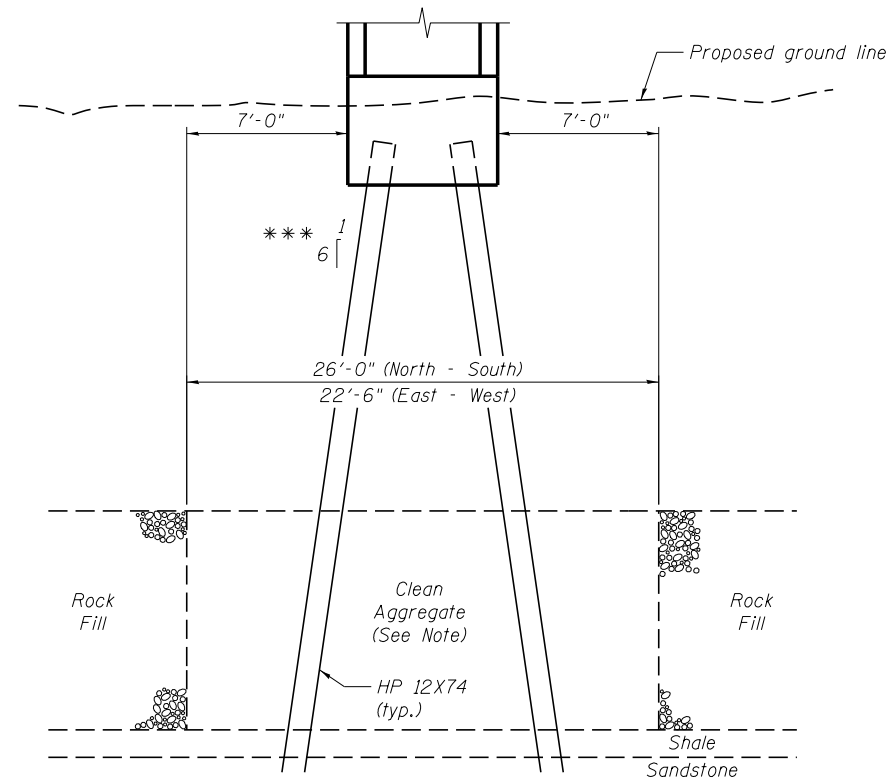
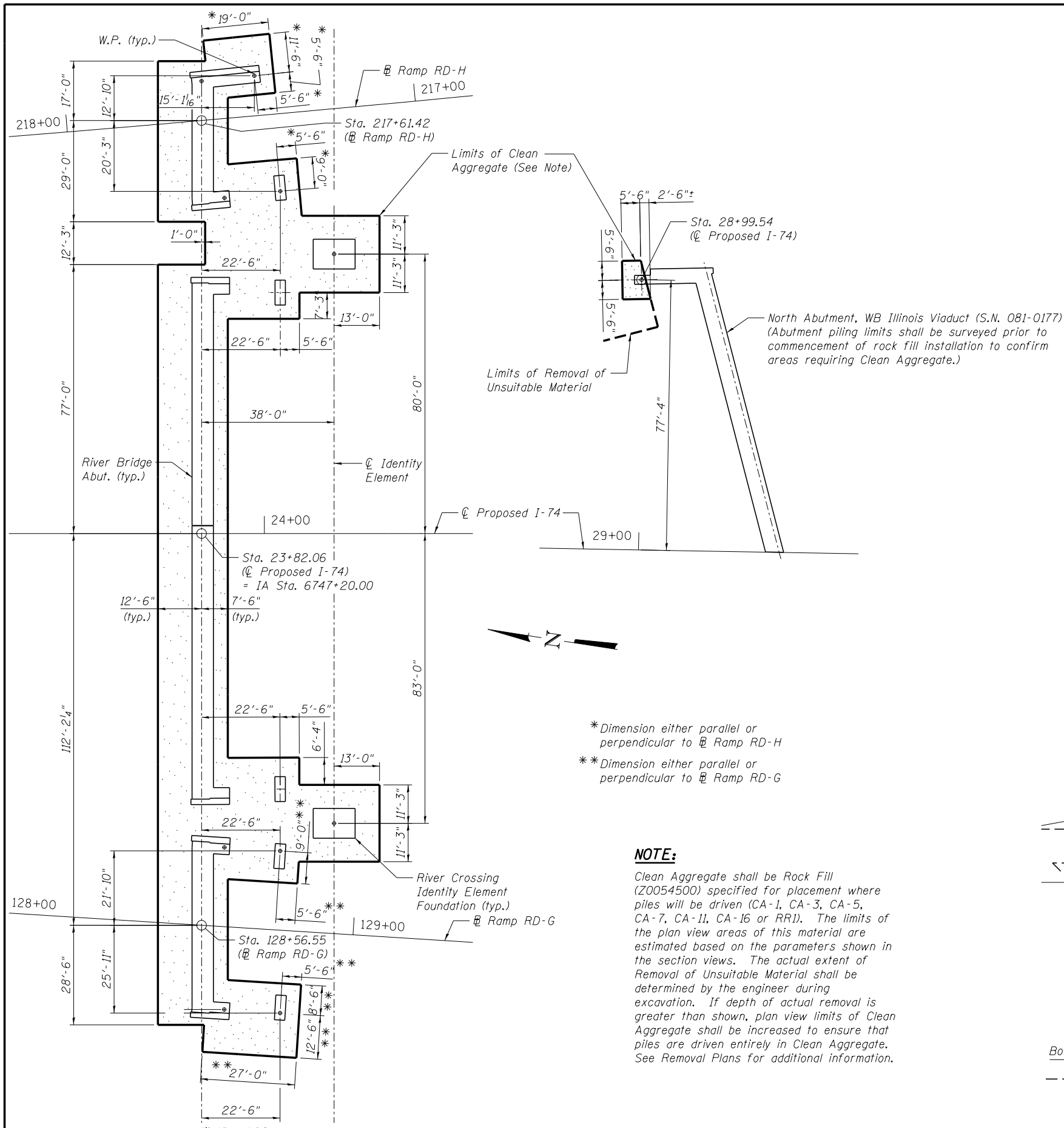
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STATE OF ILLINOIS
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BRIDGE APPROACH SLAB DETAILS
RAMP RD-H

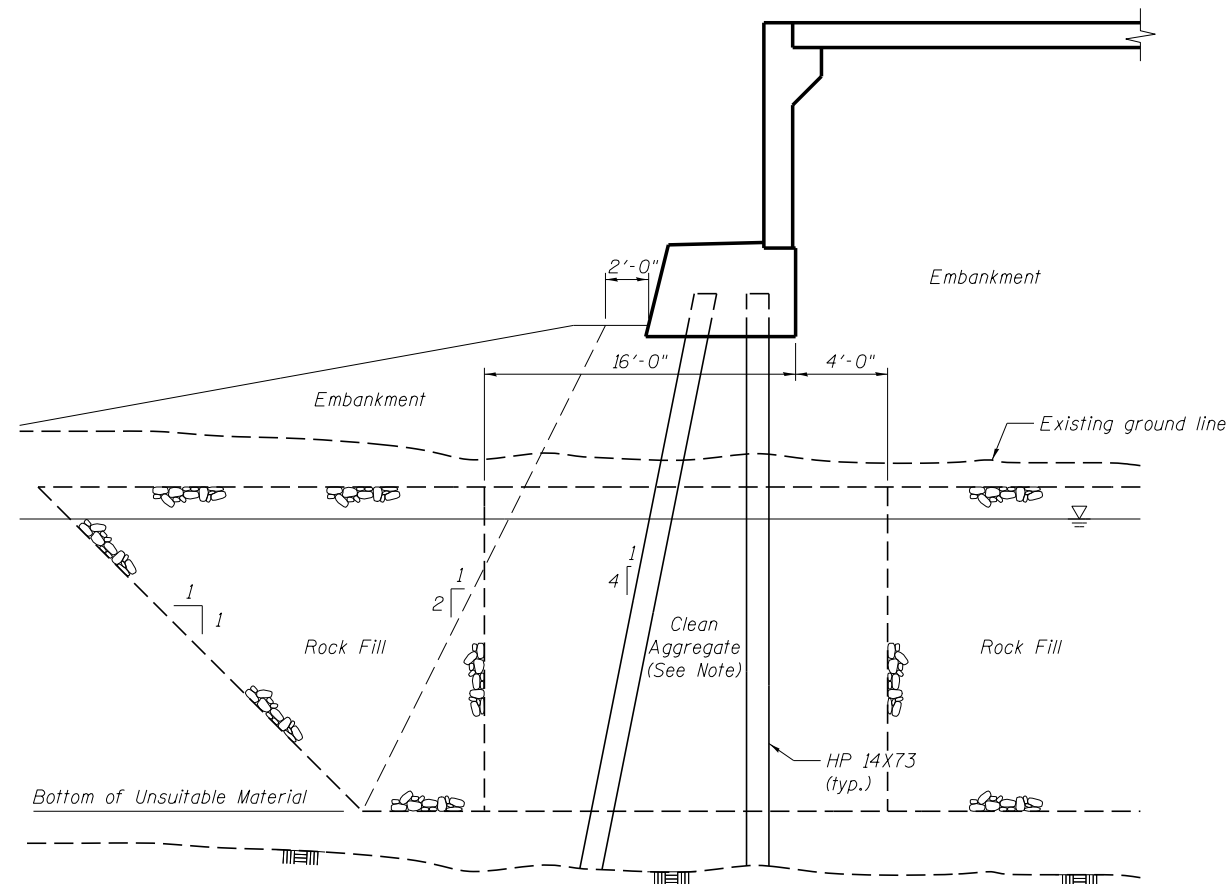
SHEET NO. SA12 OF SA12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVR)	ROCK ISLAND	1504	618
				CONTRACT NO. 64C08
				FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT



IDENTITY ELEMENT FOUNDATION IN PLUG FILL

*** See River Crossing Identity Element Sheets for direction of batter.



RIVER BRIDGE ABUTMENT IN PLUG FILL

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FILENAME =
Ground Improvement Details.dgn

MODEL =
Default

USER NAME = ksnider
PLOT SCALE =
PLOT DATE = 1/18/2017

DESIGNED - SLD
CHECKED - KWS
DRAWN - KMS
CHECKED - KWS

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUG FILL DETAILS
PILE SUPPORTED STRUCTURES

SHEET NO. SF1 OF SF1 SHEETS

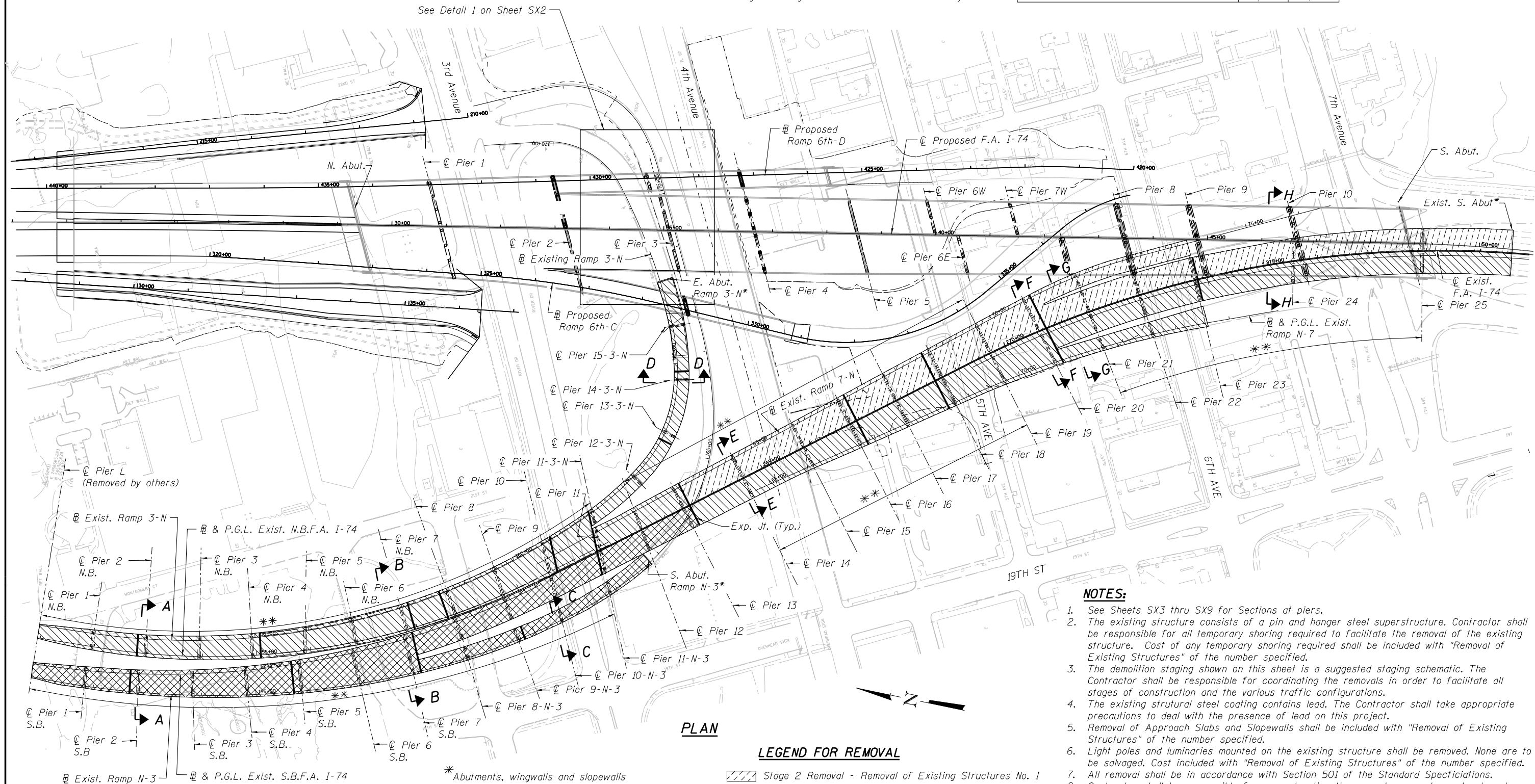
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	619
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

REMOVAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Removal of Existing Structures No. 2	Each	1
Removal of Existing Structures No. 3	Each	1
Concrete Removal	Cu Yd	160.9
Protective Shield	Sq Yd	28,255

INDEX OF SHEETS

SX1	Demolition Plan
SX2	Retaining Wall Removal
SX3-SX9	Demolition Sections
SX10-SX147	Existing Viaduct Plans (For Information Only)
SX148-SX150	Existing Retaining Wall Plans (For Information Only)



NOTES:

- See Sheets SX3 thru SX9 for Sections at piers.
- The existing structure consists of a pin and hanger steel superstructure. Contractor shall be responsible for all temporary shoring required to facilitate the removal of the existing structure. Cost of any temporary shoring required shall be included with "Removal of Existing Structures" of the number specified.
- The demolition staging shown on this sheet is a suggested staging schematic. The Contractor shall be responsible for coordinating the removals in order to facilitate all stages of construction and the various traffic configurations.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Removal of Approach Slabs and Slopewalls shall be included with "Removal of Existing Structures" of the number specified.
- Light poles and luminaries mounted on the existing structure shall be removed. None are to be salvaged. Cost included with "Removal of Existing Structures" of the number specified.
- All removal shall be in accordance with Section 501 of the Standard Specifications.
- Contractor shall be responsible for reconstructing the ground areas where structure has been removed and areas that become damaged during the removal operation. At the direction of the Engineer the ground areas shall be reestablished in kind with the area immediately adjacent to the removal area. Cost shall be included with "Removal of Existing Structures" of the number specified.



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MODEL: SX1 Contract AB

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PLOT DATE = 1/18/2017

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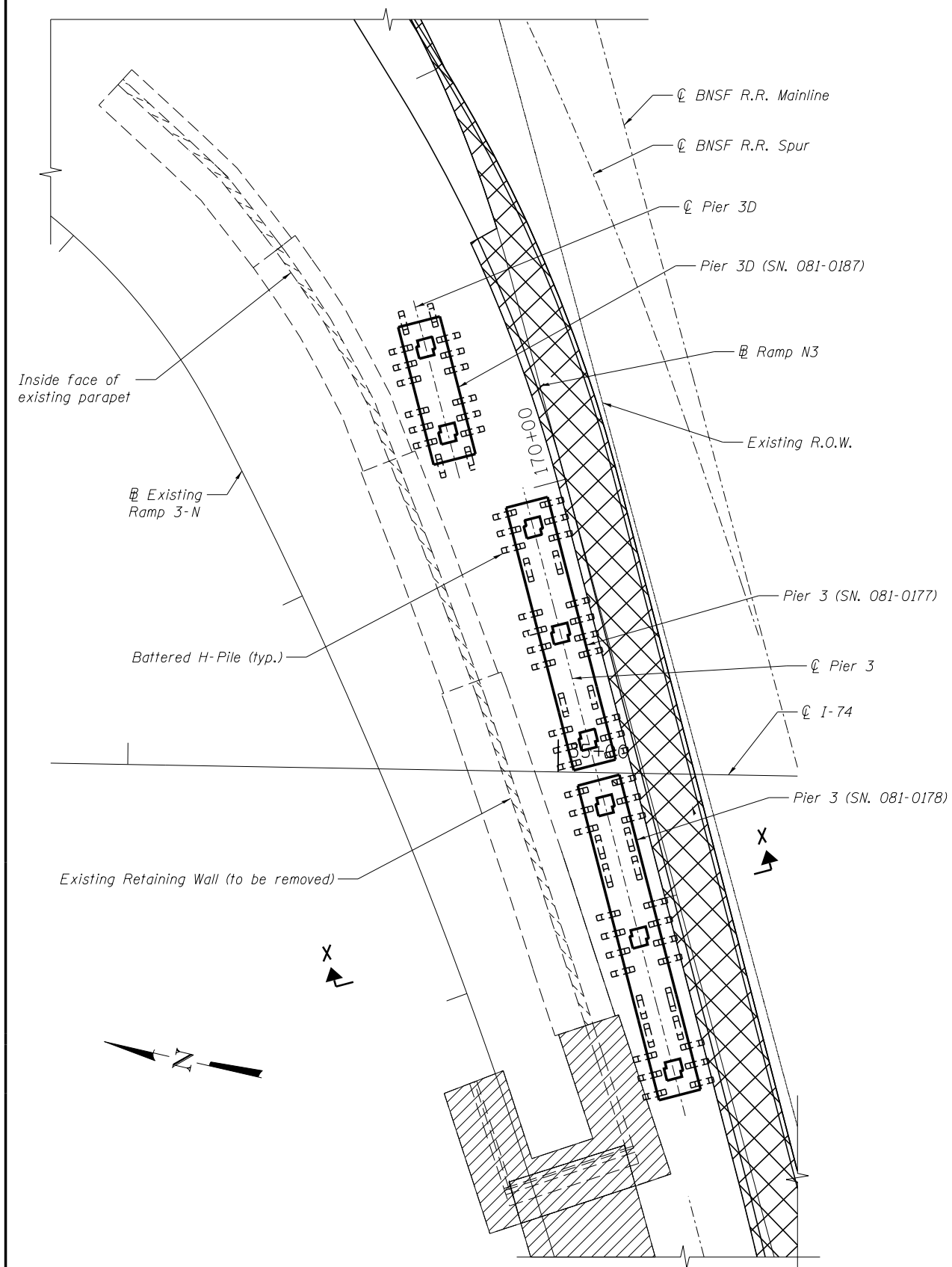
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STATE OF ILLINOIS
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STRUCTURE REMOVAL PLANS
DEMOLITION PLAN

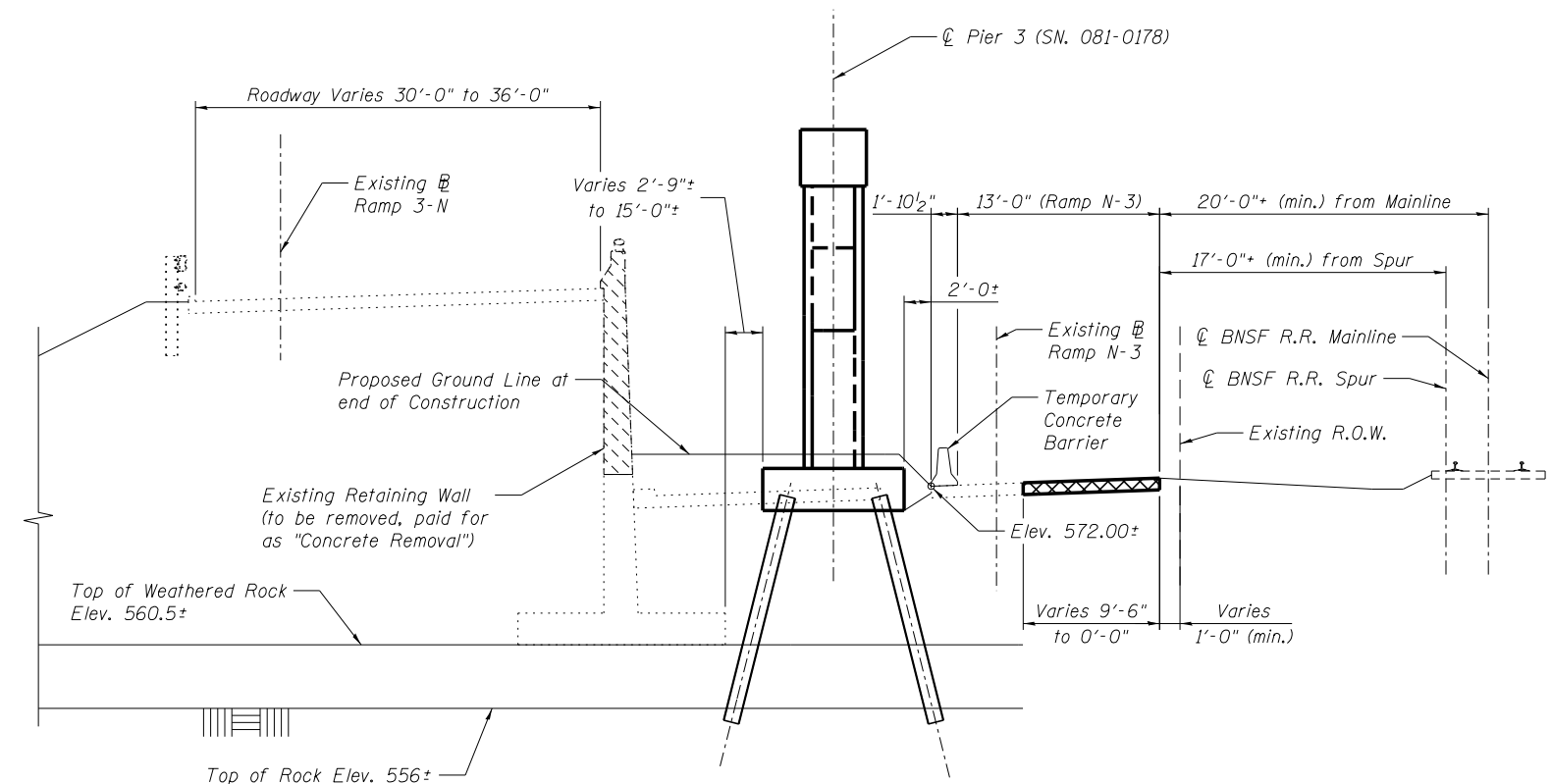
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	620
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



DETAIL 1

Concrete Removal hatching not shown
for clarity. See Section X-X.



SECTION X-X

LEGEND

-  *Temporary Pavement (see Roadway Plans)*
 *Stage 3 Removal - Removal of Existing Structures No. 2*
 *Concrete Removal*

NOTES:

1. Removal shall be in accordance with Section 501 of the Standard Specifications.
2. See sheets SX148-SX150 for existing plans of the retaining wall.



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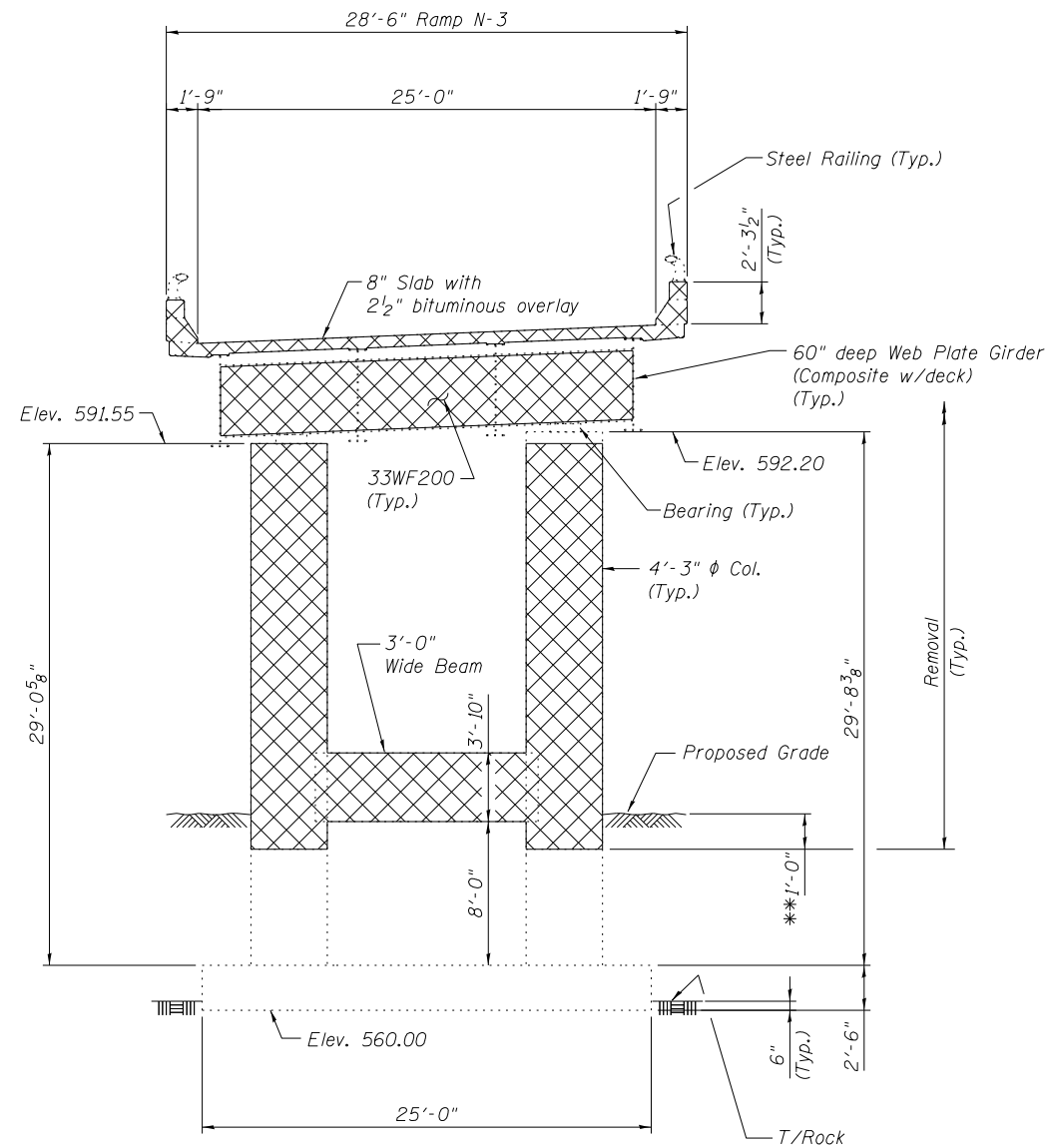
**STATE OF ILLINOIS
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STRUCTURE REMOVAL PLANS

RETAINING WALL REMOVAL

SHEET NO. SX2 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



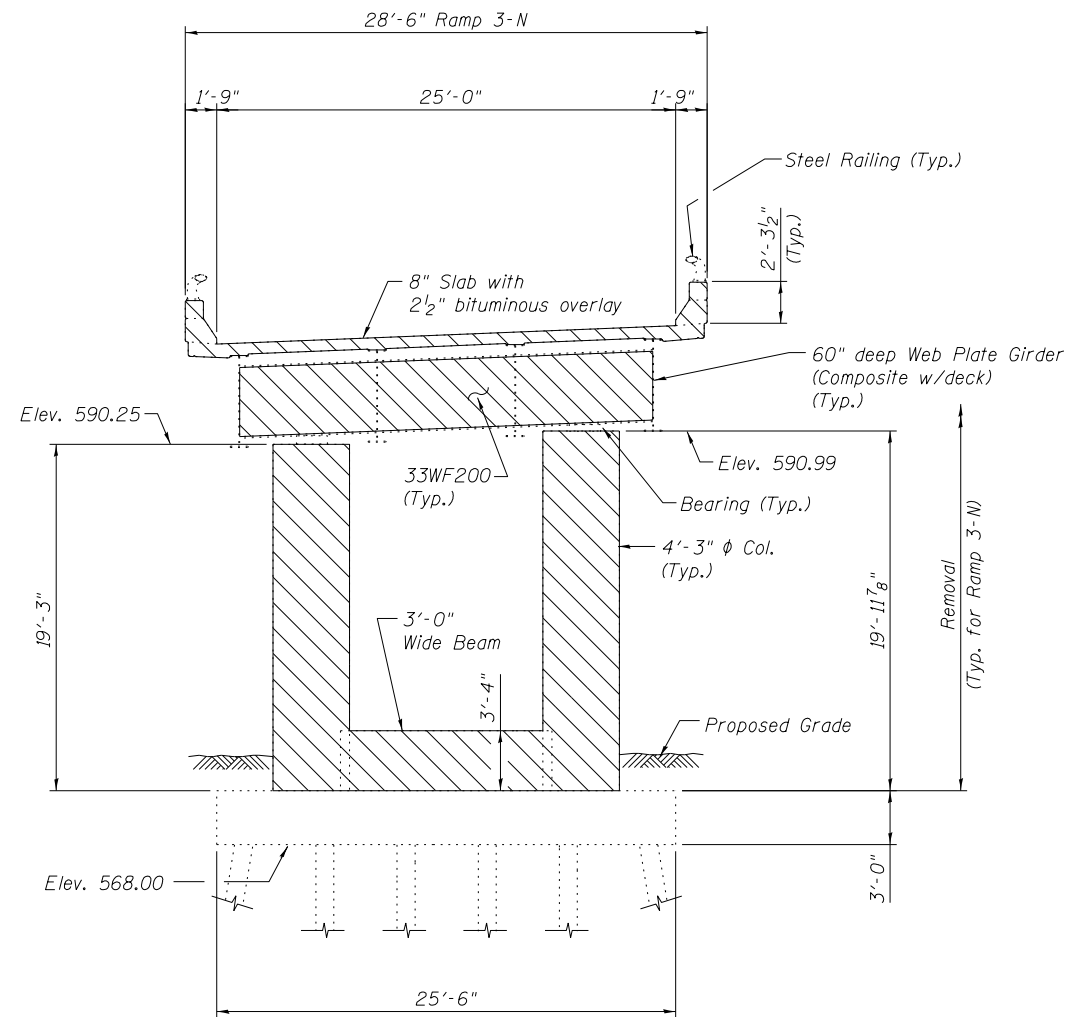
PIER 10-N-3

SECTION C-C
(Looking South)

Span	SB Length*
Pier 7 to Pier 8-N-3	100'-4"
Pier 8-N-3 to Pier 9-N-3	98'-6"
Pier 9-N-3 to Pier 10-N-3	86'-10"
Pier 10-N-3 to Pier 11-N-3	105'-5 7/8"
Pier 11-N-3 to C Brg. S. Abut.	90'-0"

* Length is Measured along Baseline Ramp N-3

**Portions of existing structures below this elevation that interfere with the proposed construction shall also be removed



PIER 14-3-N

SECTION D-D
(Looking East)

Span	Length*
Pier 10 to Pier 11-3-N	109'-10 1/4"
Pier 11-3-N to Pier 12-3-N	100'-0"
Pier 12-3-N to Pier 13-3-N	100'-0"
Pier 13-3-N to Pier 14-3-N	100'-0"
Pier 14-3-N to Pier 15-3-N	100'-0"
Pier 15-3-N to C Brg. Abut.	85'-0"

* Length is Measured along Baseline Ramp 3-N

LEGEND FOR REMOVAL

Stage 3 - Removal of Existing Structures No. 2

Post Stage 3 - Removal of Existing Structures No. 3



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PLOT SCALE :
PLOT DATE : 1/18/2017

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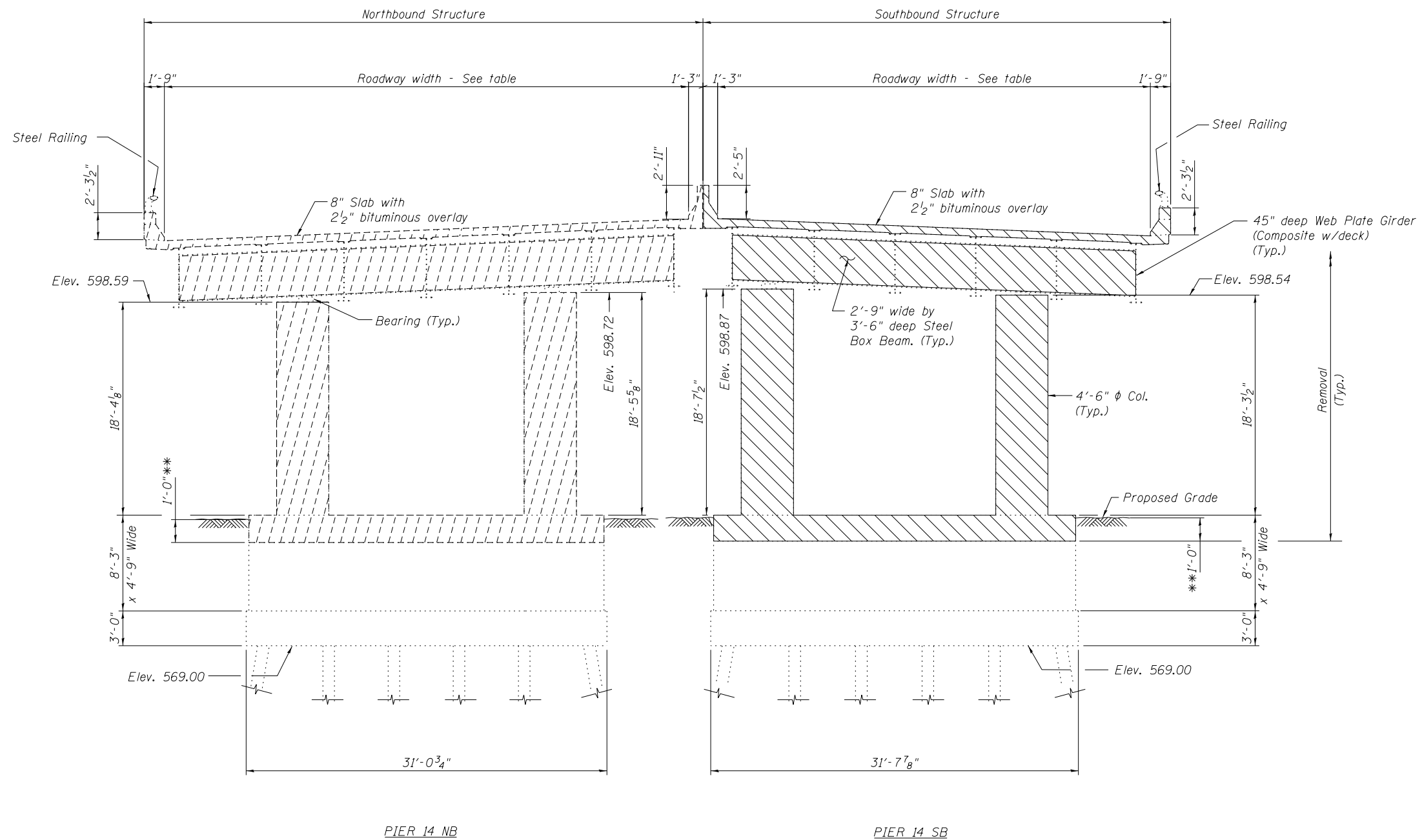
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STRUCTURE REMOVAL PLANS
DEMOLITION SECTIONS

SHEET NO. SX5 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	624
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



SECTION E-E
(Looking South)

LEGEND FOR REMOVAL

- Stage 2 Removal - Removal of Existing Structures No. 1
- Stage 3 - Removal of Existing Structures No. 2

**Portions of existing structures
below this elevation that interfere
with the proposed construction
shall also be removed

Location	NB Roadway Width	SB Roadway Width
Exp. Jt. @ Pier 13	42'-1 1/2"	39'-0"
Exp. Jt. @ Pier 16	51'-2 1/4"	46'-4 7/8"
Exp. Jt. @ Pier 18	55'-4 3/4"	55'-0"

Span	NB Length*	SB Length*
Pier 11 to Pier 12	81'-10"	83'-5"
Pier 12 to Pier 13	81'-10"	83'-5"
Pier 13 to Pier 14	128'-0"	128'-0"
Pier 14 to Pier 15	125'-0"	125'-0"
Pier 15 to Pier 16	95'-2"	95'-2"
Pier 16 to Pier 17	95'-2"	95'-2"
Pier 17 to Pier 18	95'-2"	95'-2"

* Length is Measured along Baseline

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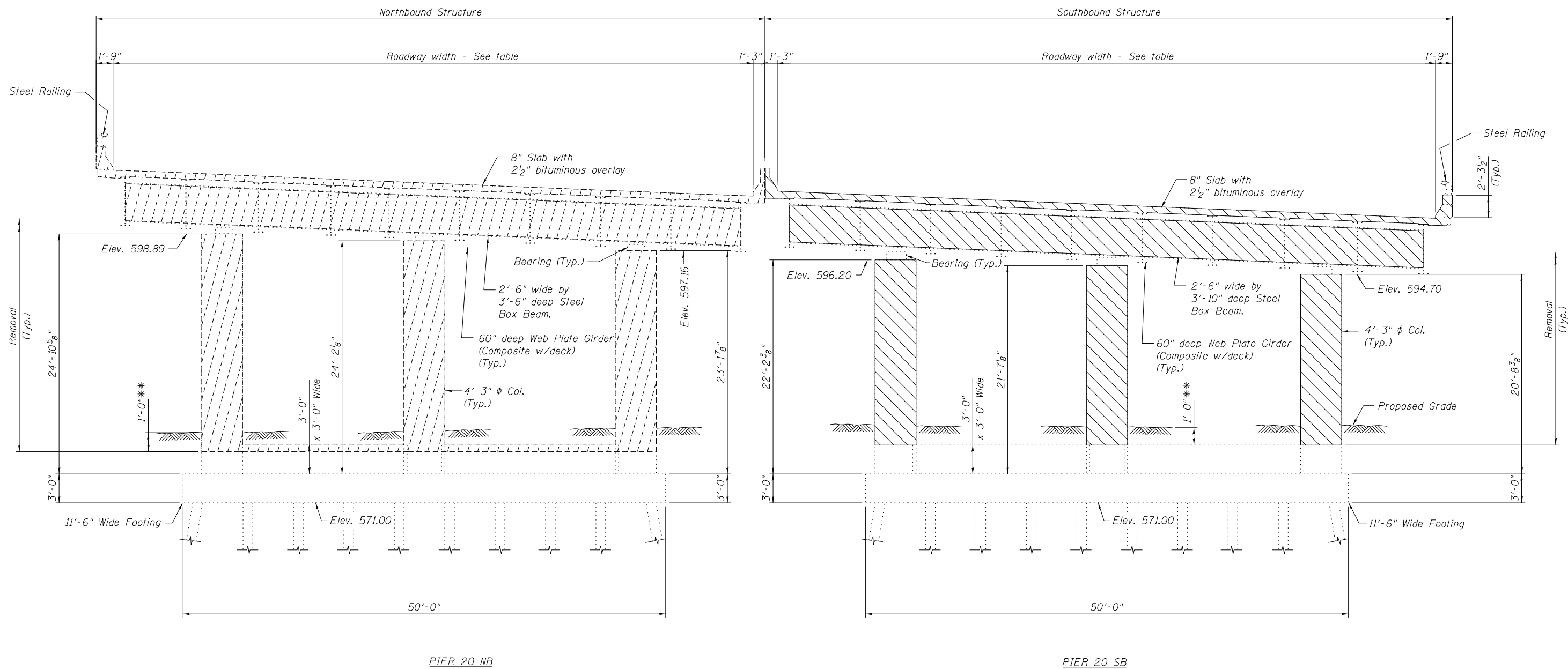
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STATE OF ILLINOIS
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STRUCTURE REMOVAL PLANS
DEMOLITION SECTIONS

SHEET NO. SX6 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	625
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



SECTION F-F

**Portions of existing structures below this elevation that interfere with the proposed construction shall also be removed

LEGEND FOR REMOVAL

- Stage 2 Removal - Removal of Existing Structures No. 1
- Stage 3 - Removal of Existing Structures No. 2

Location	NB Roadway Width	SB Roadway Width
Exp. Jt. @ Pier 18	55'-4 3/4"	55'-0"
Exp. Jt. @ Pier 20	67'-6 1/4"	68'-9 1/4"

Span	NB Length*	SB Length*
Pier 18 to Pier 19	99'-0 1/4"	98'-8 7/8"
Pier 19 to Pier 20	99'-2 1/2"	98'-6 3/8"

* Length is Measured along Baseline



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FILE NAME = 0810178-A0321-002-Contract AB Demo_Sections.brg

USER NAME = ksnider

DESIGNED - VH

REVIS

MODEL: SX7 5 Contract AB

PLOT SCALE =

DRAWN - VH

REVIS

PLOT DATE = 1/18/2017

CHECKED - AJK

REVIS

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STRUCTURE REMOVAL PLANS
DEMOLITION SECTIONS

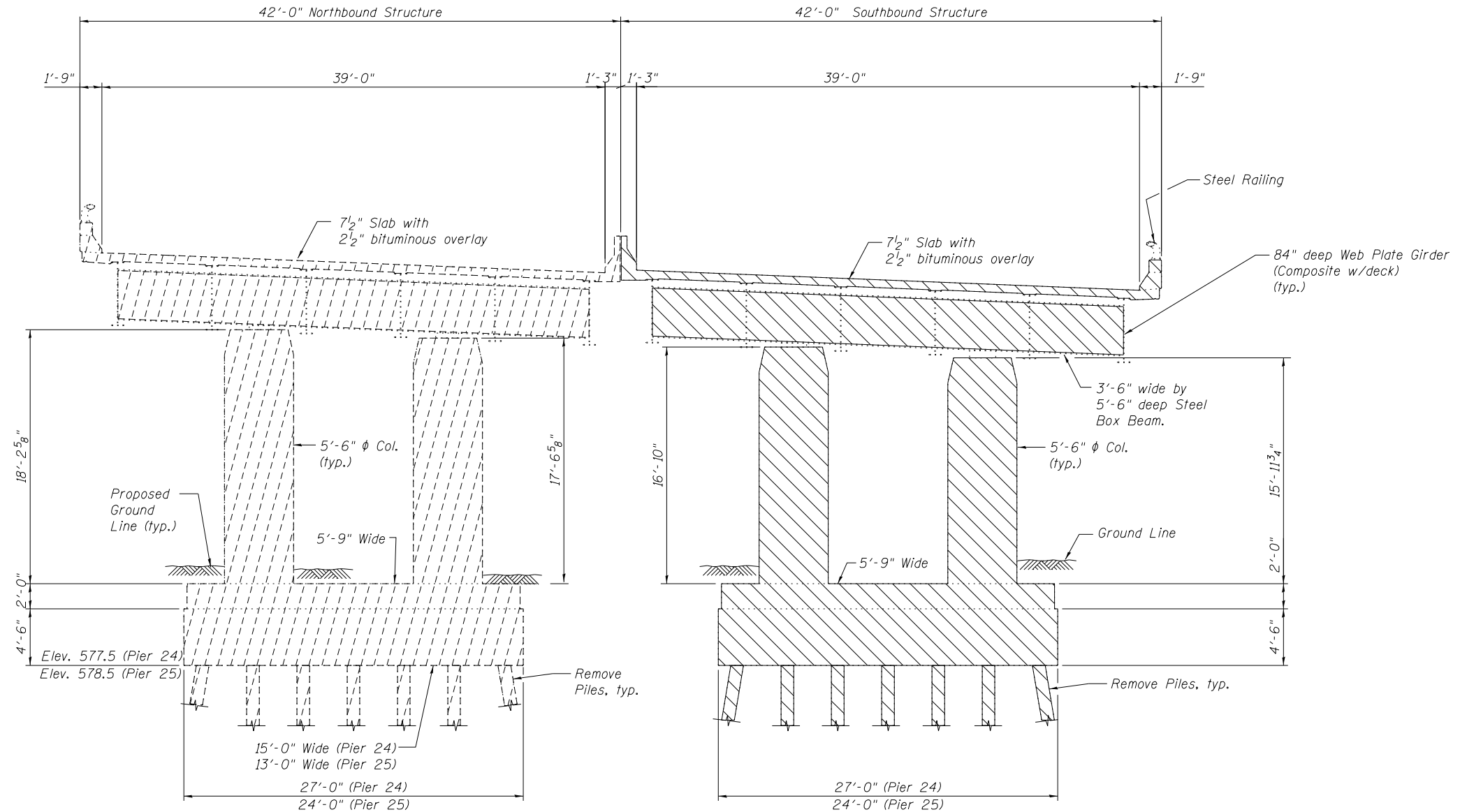
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74 (81-1)R & 81-1(HVBR) ROCK ISLAND 1504 626

CONTRACT NO. 64C08

ILLINOIS FED. AID PROJECT



SECTION H-H
(Pier 25 similar)

NOTES:

1. Removal of existing structures shall be in accordance with Section 501.04 of the Standard Specifications unless shown otherwise.

LEGEND FOR REMOVAL

- Stage 2 Removal - Removal of Existing Structures No. 1
Stage 3 - Removal of Existing Structures No. 2

Span	NB Length*	SB Length*
Pier 23 to Pier 24	191'-5 1/8"	187'-0 1/8"
Pier 24 to Pier 25	237'-2 5/8"	237'-2 5/8"
Pier 25 to S. Abut.	159'-9 1/2"	160'-2 5/8"

* Length is Measured along existing PGL

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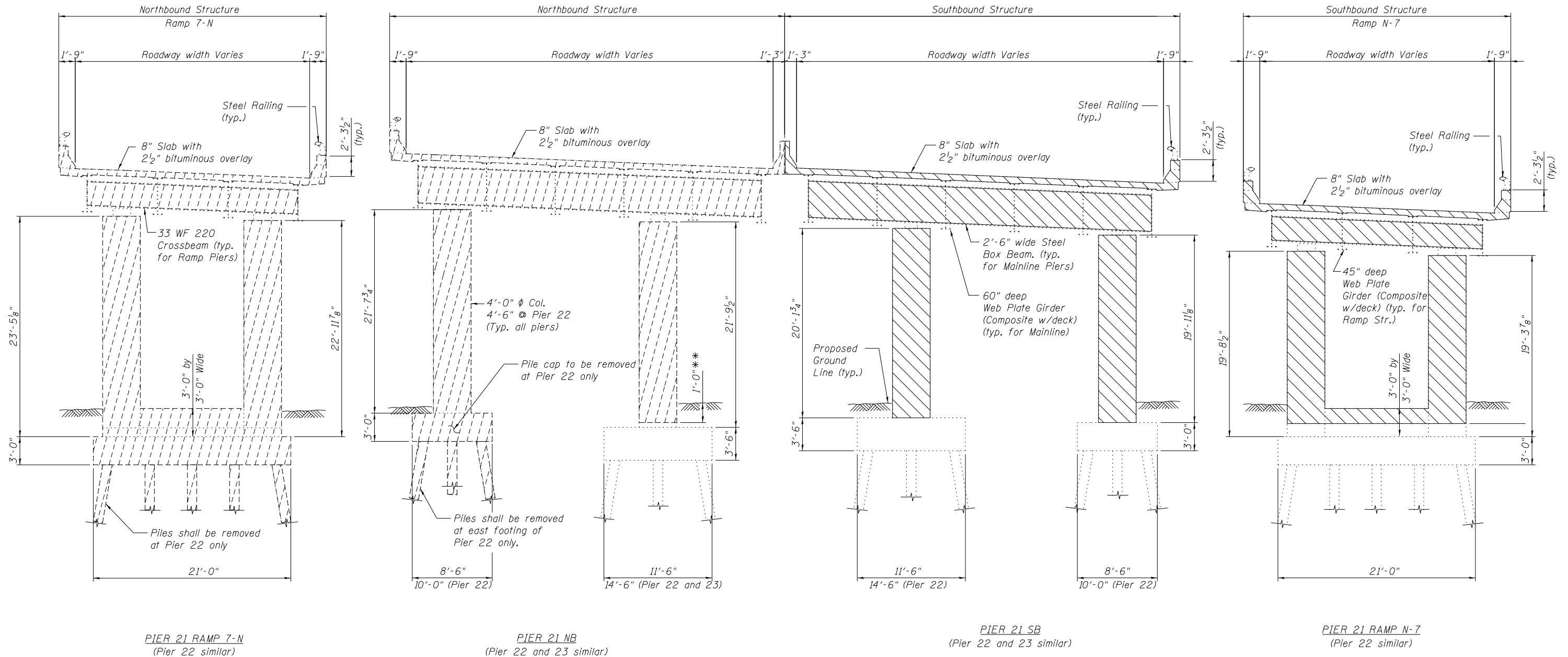
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STATE OF ILLINOIS
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STRUCTURE REMOVAL PLANS
DEMOLITION SECTIONS

SHEET NO. SX9 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	627
CONTRACT NO. 64C08				
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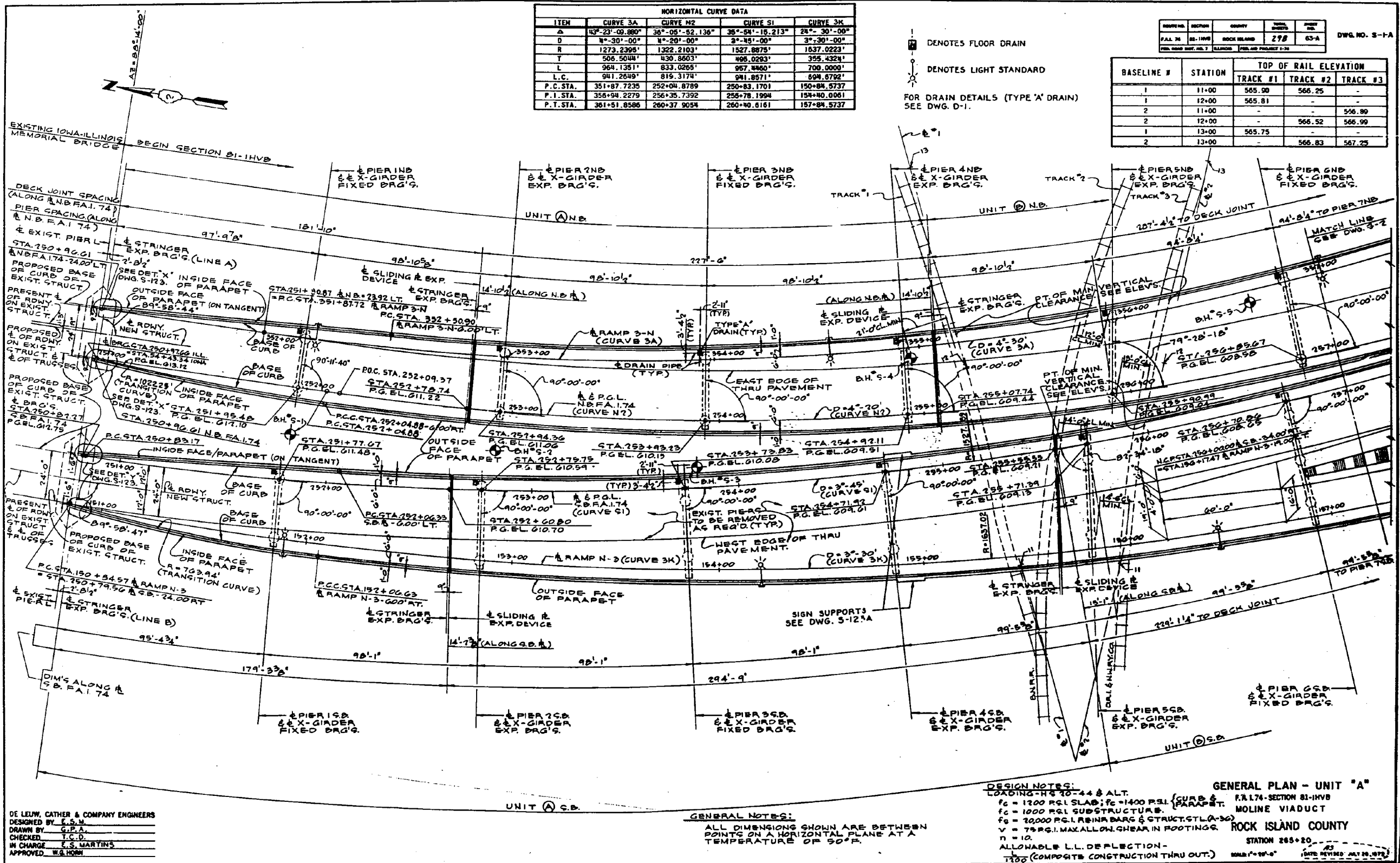
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
DEMOLITION SECTIONS

SHEET NO. SX8 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	628
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



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FOR INFORMATION ONLY

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PLOT SCALE:
PLOT DATE: 1/18/2017

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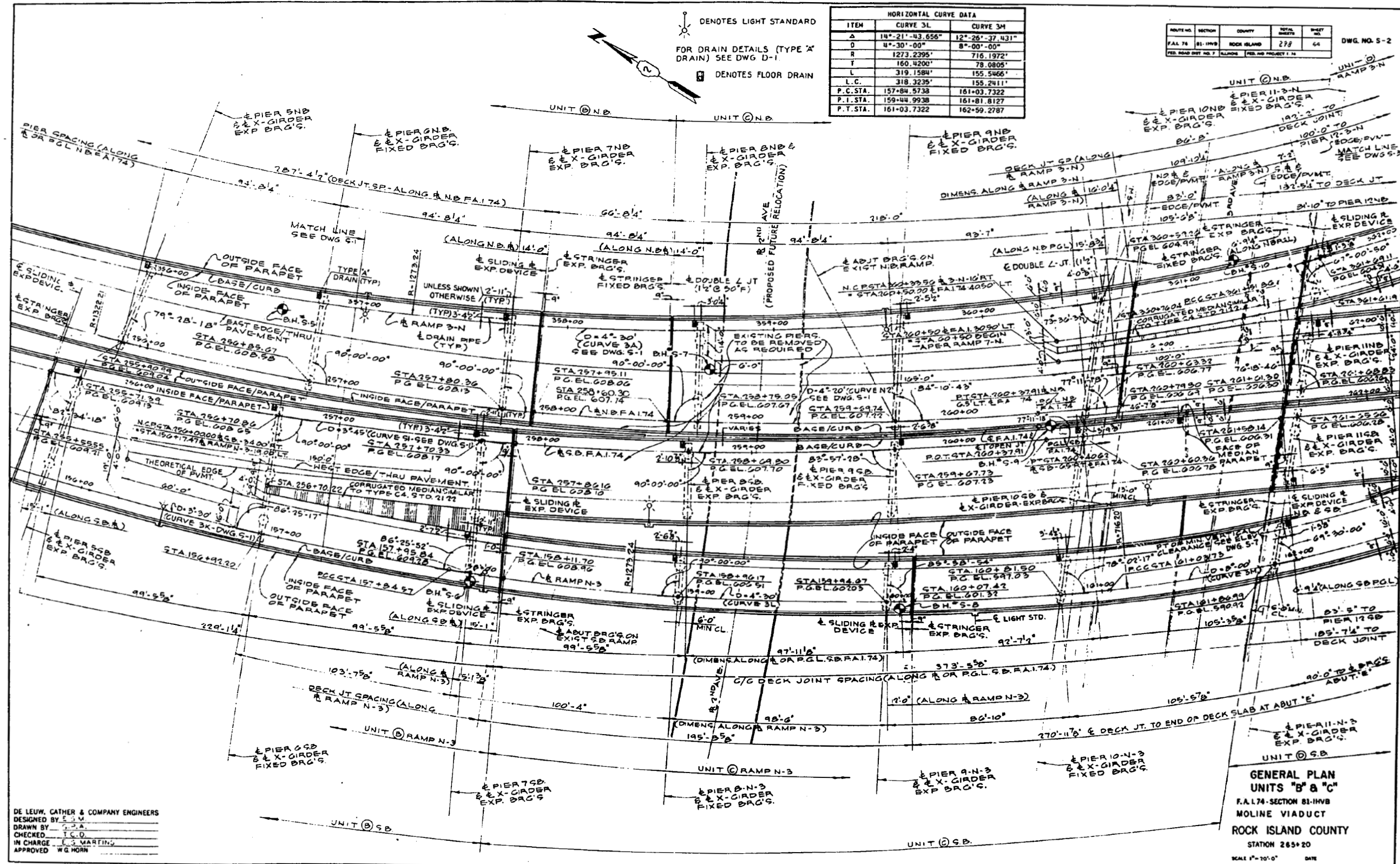
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX10 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	629
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



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EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)VB	ROCK ISLAND	1504	630
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT

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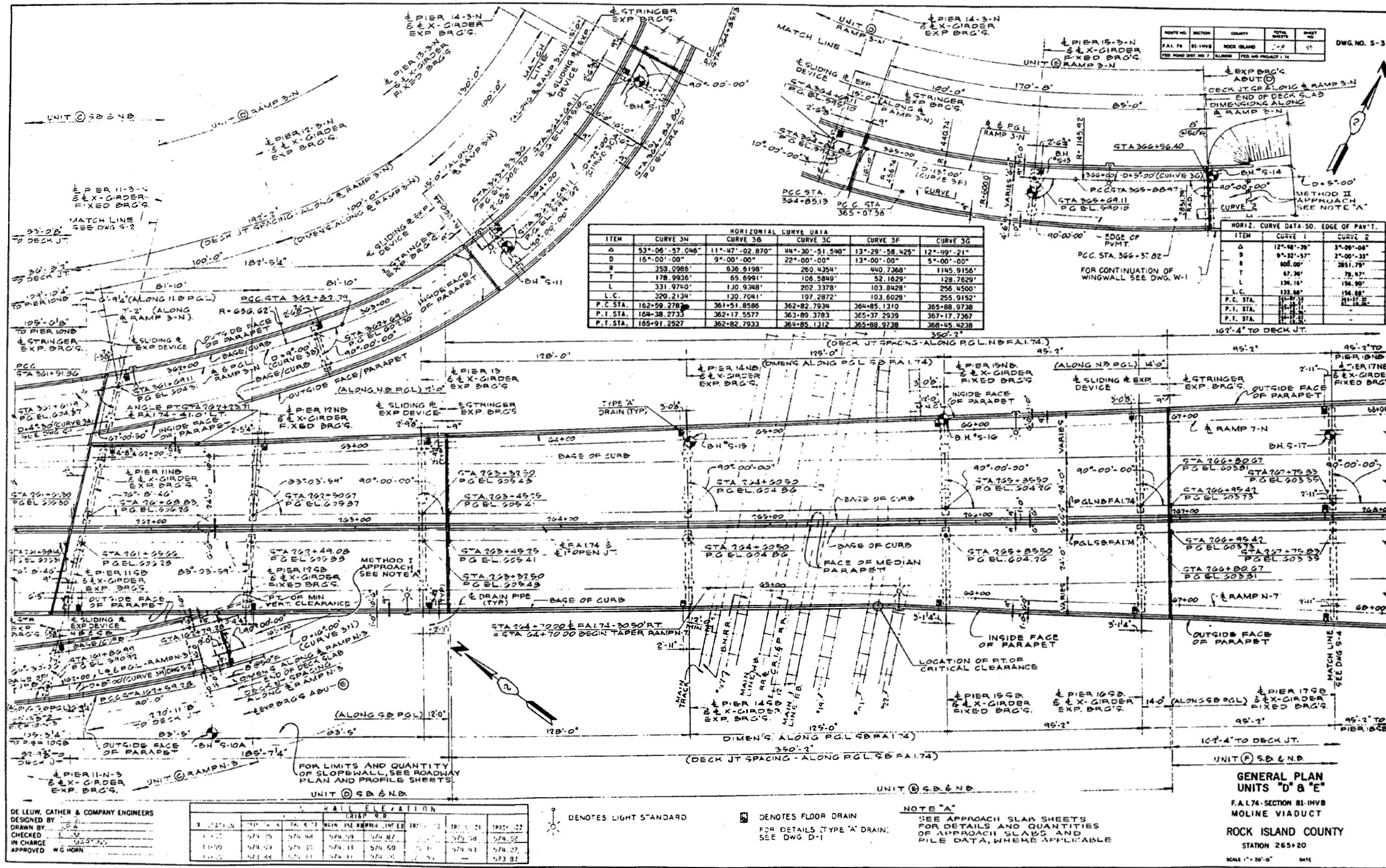
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REVISED -
REVISED -
REVISED -
REVISED -

SHEET NO. SX11 OF SX150 SHEETS



Alfred Benesch & Company
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 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

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MODEL : 3 Contract AB

USER NAME : ksnider
 DESIGNED : AWH
 CHECKED : AJK
 DRAWN : KMS
 CHECKED : AJK
 PLOT DATE : 1/18/2017

DESIGNED : AWH
 CHECKED : AJK
 DRAWN : KMS
 CHECKED : AJK
 PLOT DATE : 1/18/2017

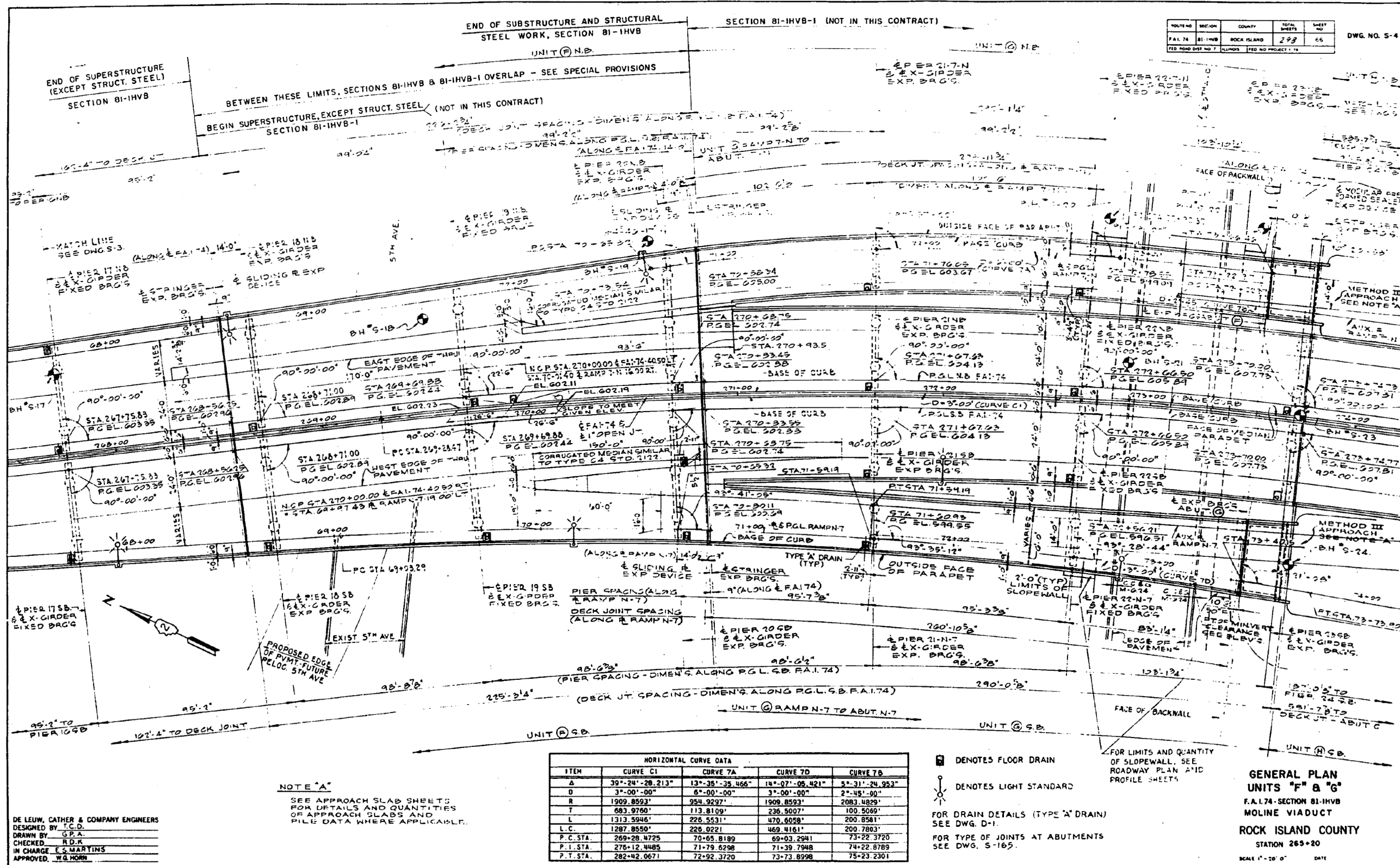
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX12 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	631
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	632
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

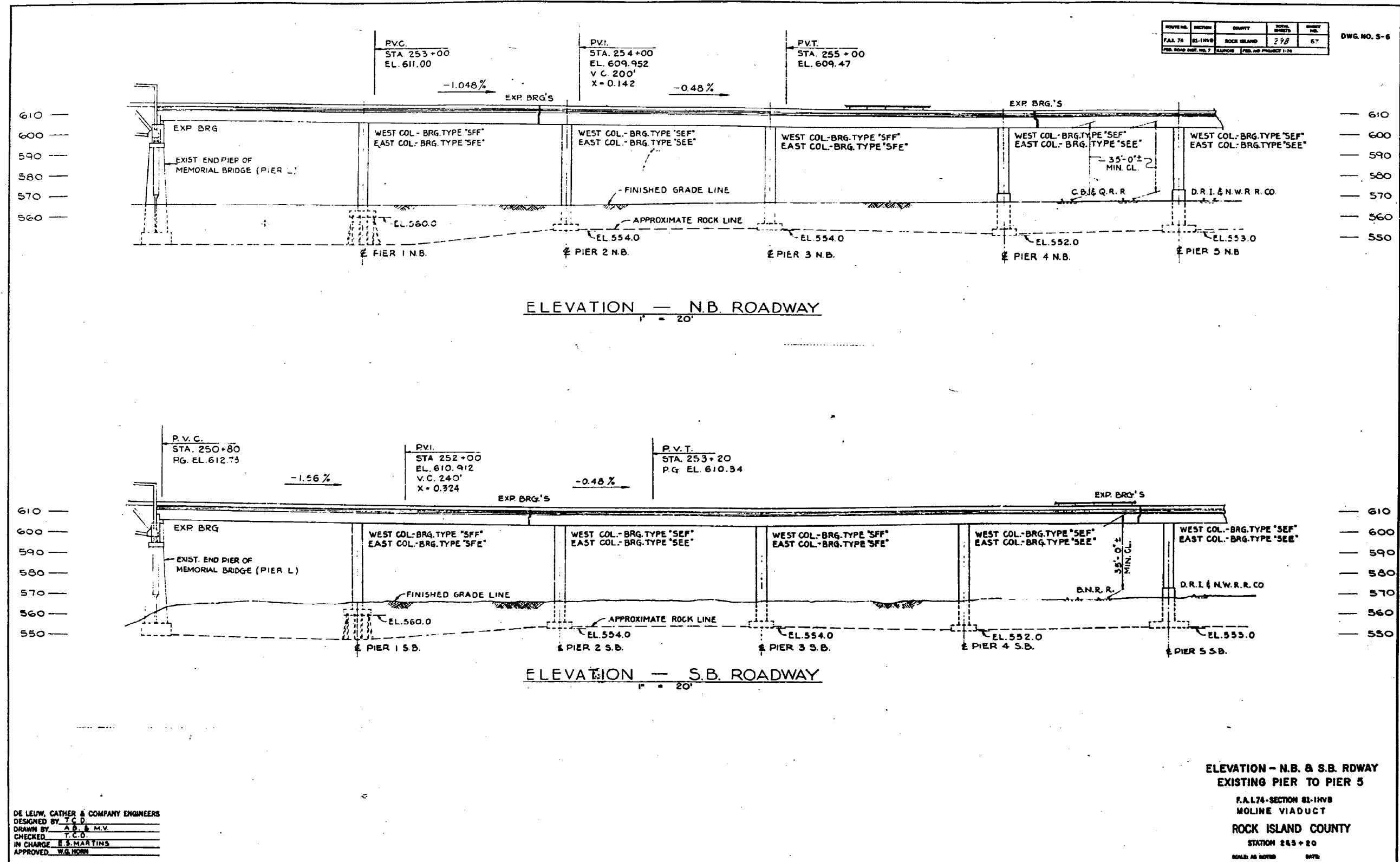
FILE NAME : 0810178-A0321-002-Contract AB Demo, Rasters.brg
MODEL : 4 Contract AB

USER NAME : ksnider
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK

REVISED -
REVISED -
REVISED -
REVISED -

SHEET NO. SX13 OF SX150 SHEETS



DE LEUW, CATHY & COMPANY ENGINEERS
DESIGNED BY T.C.D.
DRAWN BY A.B. & M.V.
CHECKED T.C.D.
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg

MODEL : 5 Contract AB

USER NAME : ksnider
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX14 OF SX150 SHEETS

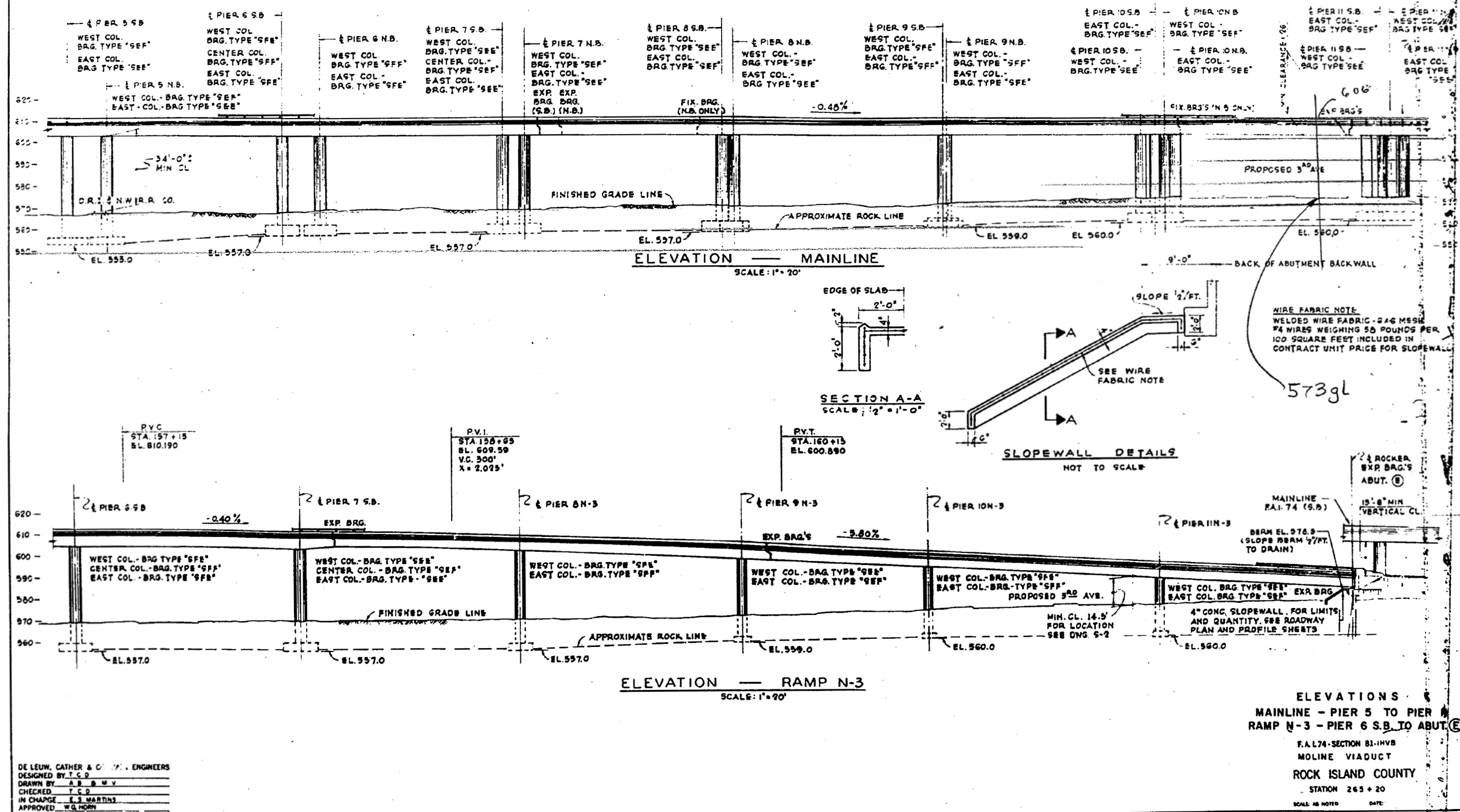
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	633
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 174	81-11V8	ROCK ISLAND	1504	634
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		



DE LEUW, CATHAR & O'NEILL ENGINEERS
DESIGNED BY T.C.D.
DRAWN BY A.B.M.V.
CHECKED T.C.D.
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

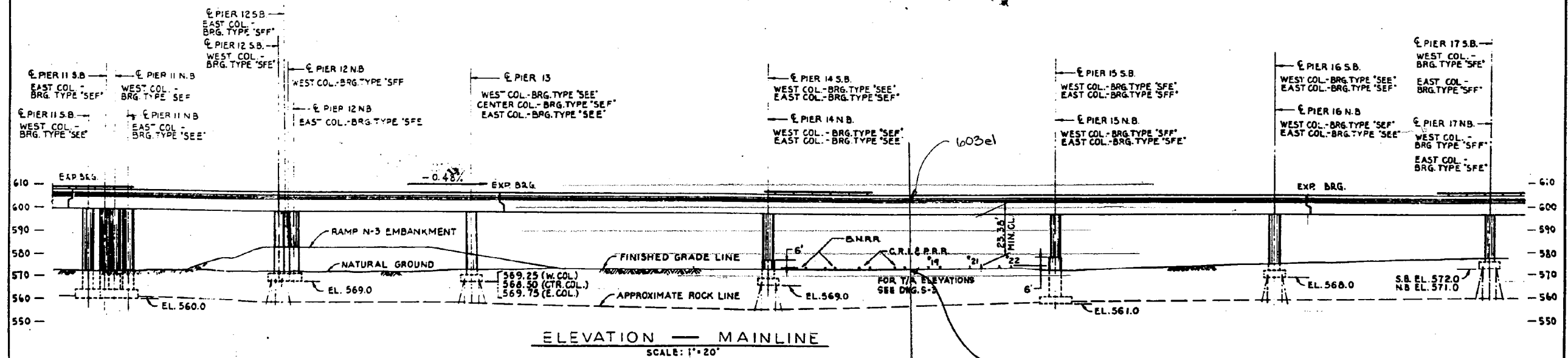
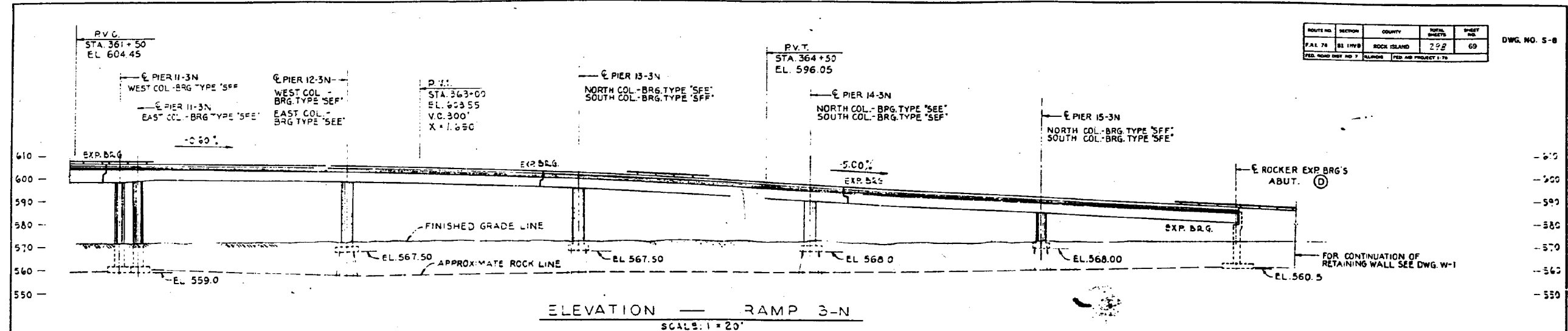
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	634
				CONTRACT NO. 64C08

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg	USER NAME : ksnider	DESIGNED : AWH	REVISED :
MODEL : 6 Contract AB	PLOT SCALE :	CHECKED : AJK	REVISED :
	PLOT DATE : 1/18/2017	DRAWN : KMS	REVISED :
		CHECKED : AJK	REVISED :

SHEET NO. SX15 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT

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ELEVATIONS
 RAMP 3-N - PIER 11 TO ABUT. ①
 MAINLINE - PIER 11 TO PIER 17
 F.A.I. 74-SECTION 81-1HVB
 MOLINE VIADUCT
 ROCK ISLAND COUNTY
 STATION 263 + 20
 SCALE AS NOTED DATE

DE LEUW, CATHAR & COMPANY ENGINEERS
 DESIGNED BY T.C.D.
 DRAWN BY A.S.
 CHECKED T.C.D.
 IN CHARGE E.S. MARTINS
 APPROVED W.G. HORN



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg

USER NAME : ksnider
 PLOT SCALE :
 PLOT DATE : 1/18/2017

DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

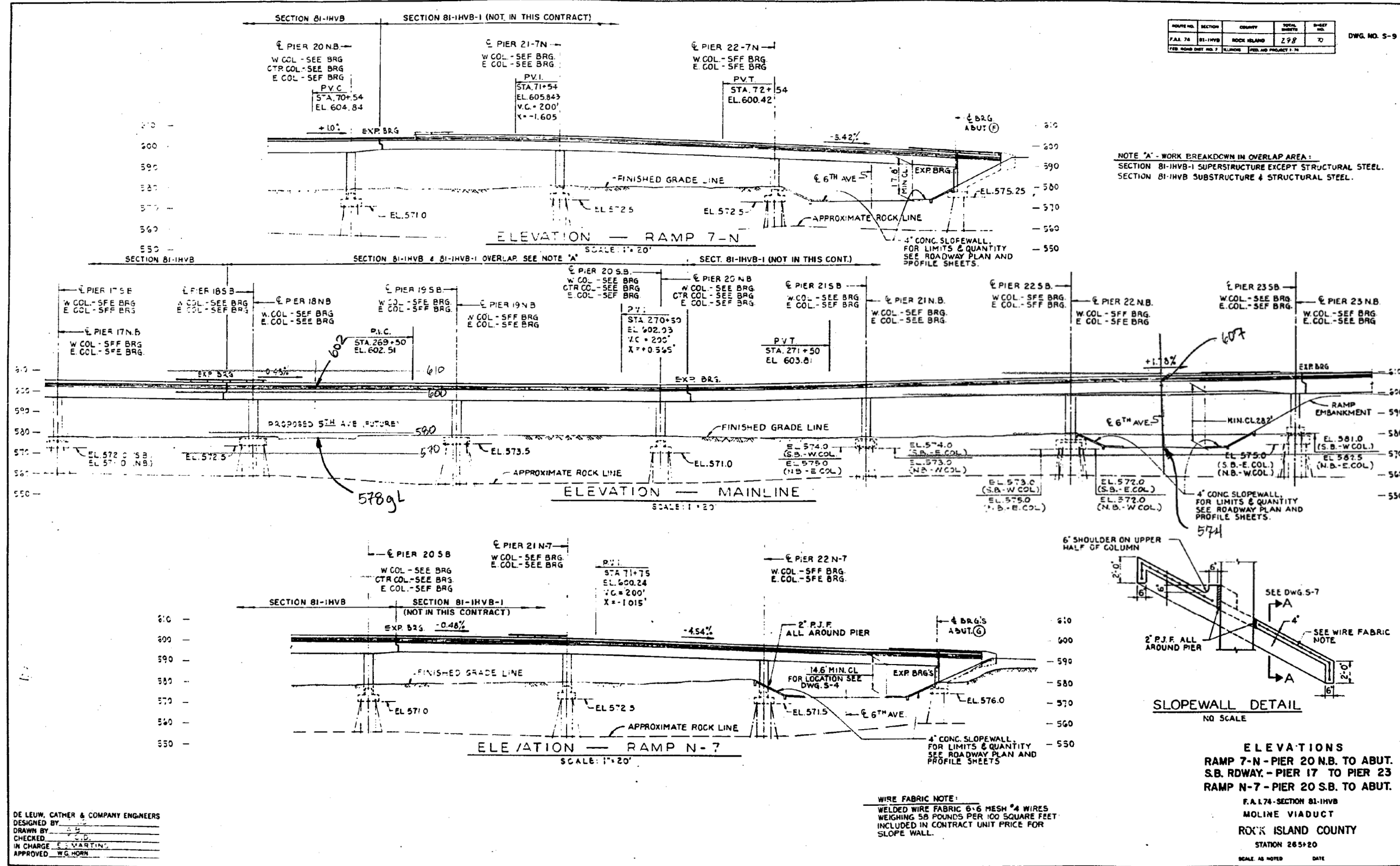
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX16 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	635

CONTRACT NO. 64C08
 ILLINOIS FED. AID PROJECT



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAA 74	81-IHVB	ROCK ISLAND	298	70
FED. ROAD DIST. NO. 7 ILLINOIS (FED. AID PROJECT 1-74)				

DWG. NO. S-9

NOTE 'A' - WORK BREAKDOWN IN OVERLAP AREA:
SECTION 81-IHVB-1 SUPERSTRUCTURE EXCEPT STRUCTURAL STEEL.
SECTION 81-IHVB SUBSTRUCTURE & STRUCTURAL STEEL.

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
IN CHARGE: [Signature]
APPROVED: [Signature]

WIRE FABRIC NOTE:
WELDED WIRE FABRIC 6x6 MESH #4 WIRES
WEIGHING 58 POUNDS PER 100 SQUARE FEET
INCLUDED IN CONTRACT UNIT PRICE FOR
SLOPE WALL.

ELEVATIONS
RAMP 7-N - PIER 20 N.B. TO ABUT.
S.B. RDWAY - PIER 17 TO PIER 23
RAMP N-7 - PIER 20 S.B. TO ABUT.
F.A. 74 - SECTION 81-IHVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(IHVB)	ROCK ISLAND	1504	636
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

FILE NAME: 0810178-A0321-002-Contract AB Demo_Rasters.brg
MODEL: 8 Contract AB

USER NAME: ksnider
DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
PLOT SCALE: 1/18/2017

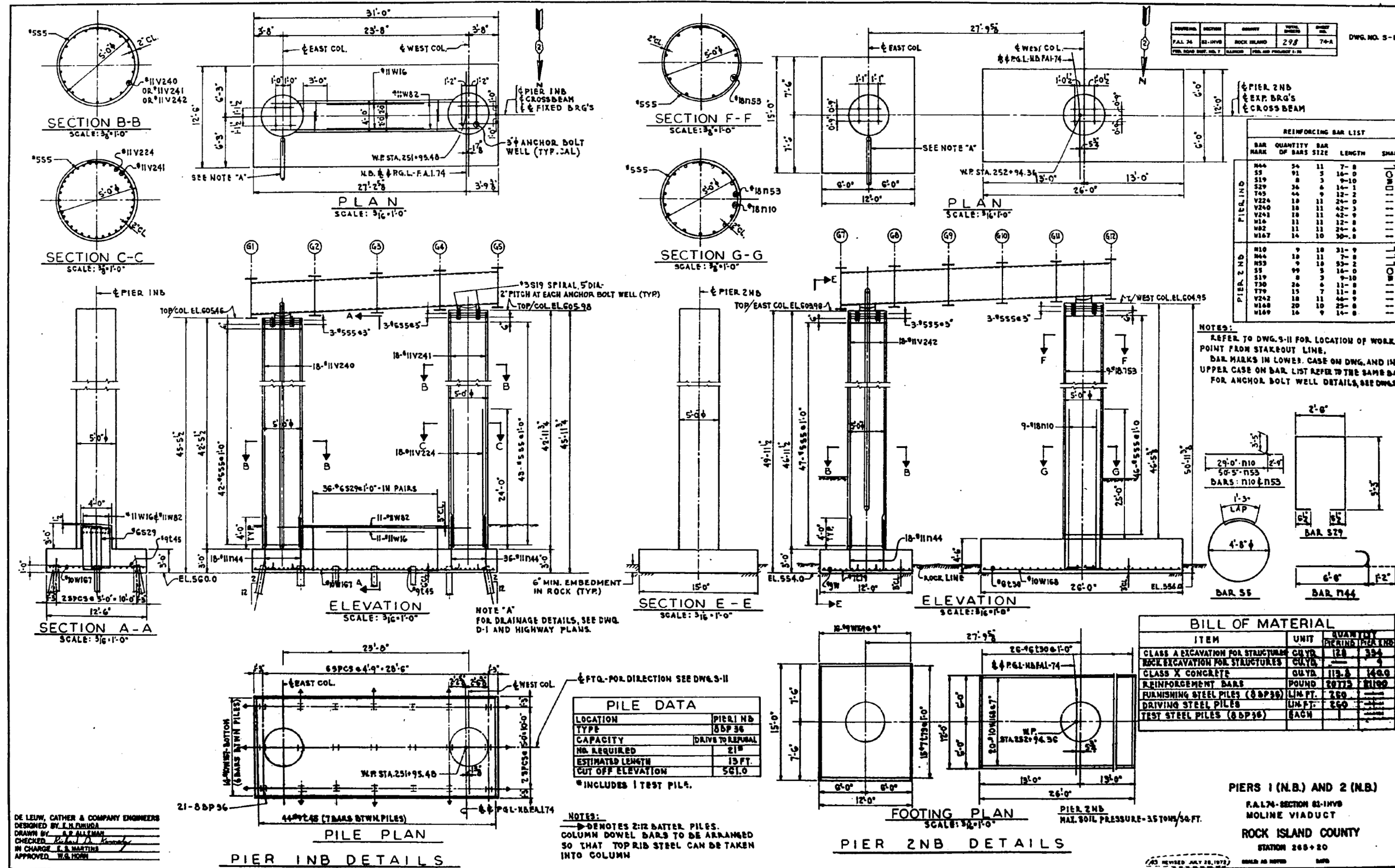
DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
PLOT DATE: 1/18/2017

DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
PLOT DATE: 1/18/2017

DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
PLOT DATE: 1/18/2017

DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
PLOT DATE: 1/18/2017

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 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
 0810178-A0321-002-Contract AB Demo-Rasters.brg
 MODEL :
 9 Contract AB

USER NAME : ksnider
 DESIGNED - AWH
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK
 PLOT SCALE :
 PLOT DATE : 1/18/2017

DESIGNED - AWH
 CHECKED - AJK
 DRAWN - KMS
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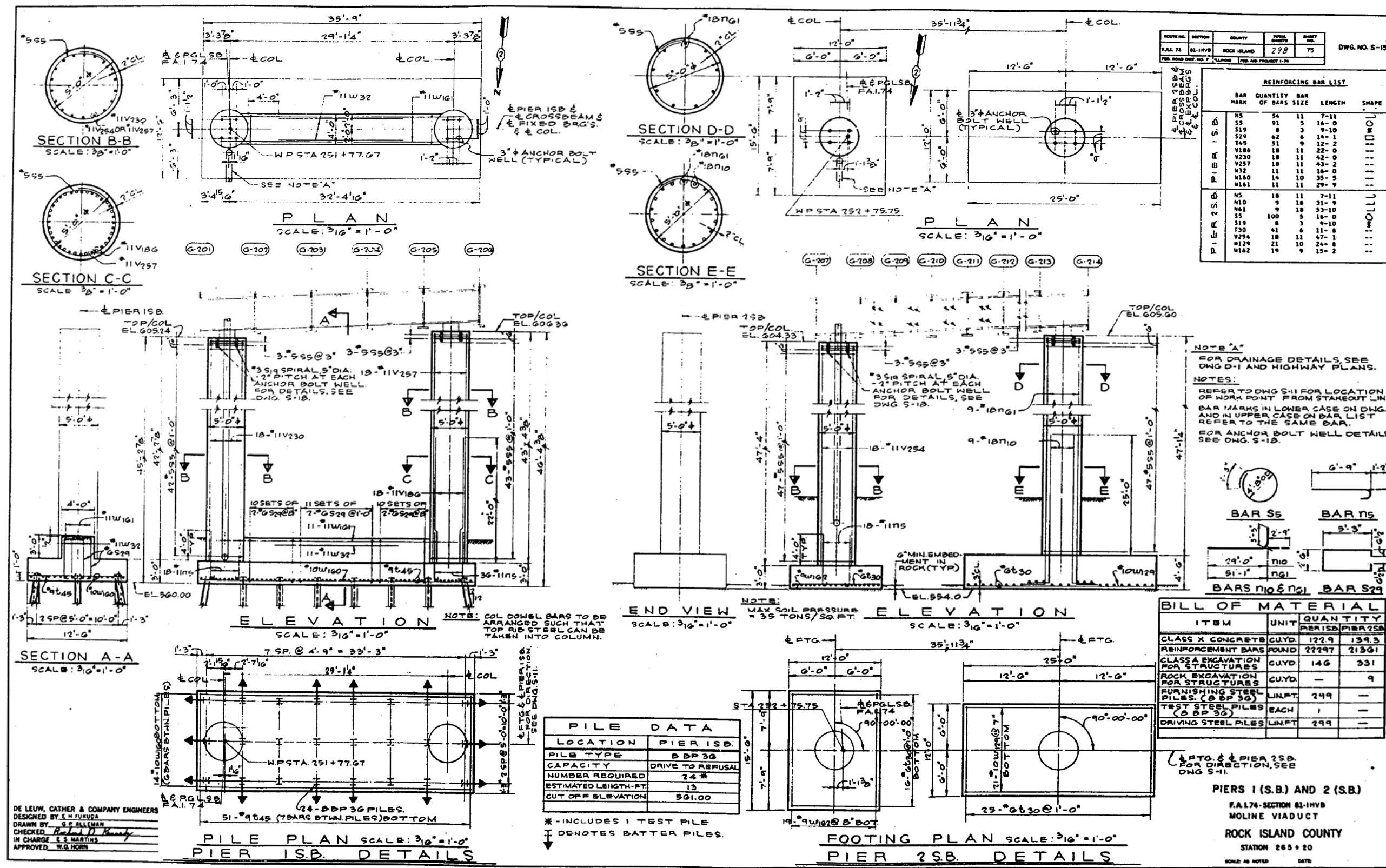
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX18 OF SX150 SHEETS

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVR)	ROCK ISLAND	1504	637
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-AB321-002-Contract AB Demo-Rasters.brg	DESIGNED - AWH	REVISD -
MODEL : 10 Contract AB	CHECKED - AJK	REVISD -
	DRAWN - KMS	REVISD -
	CHECKED - AJK	REVISD -

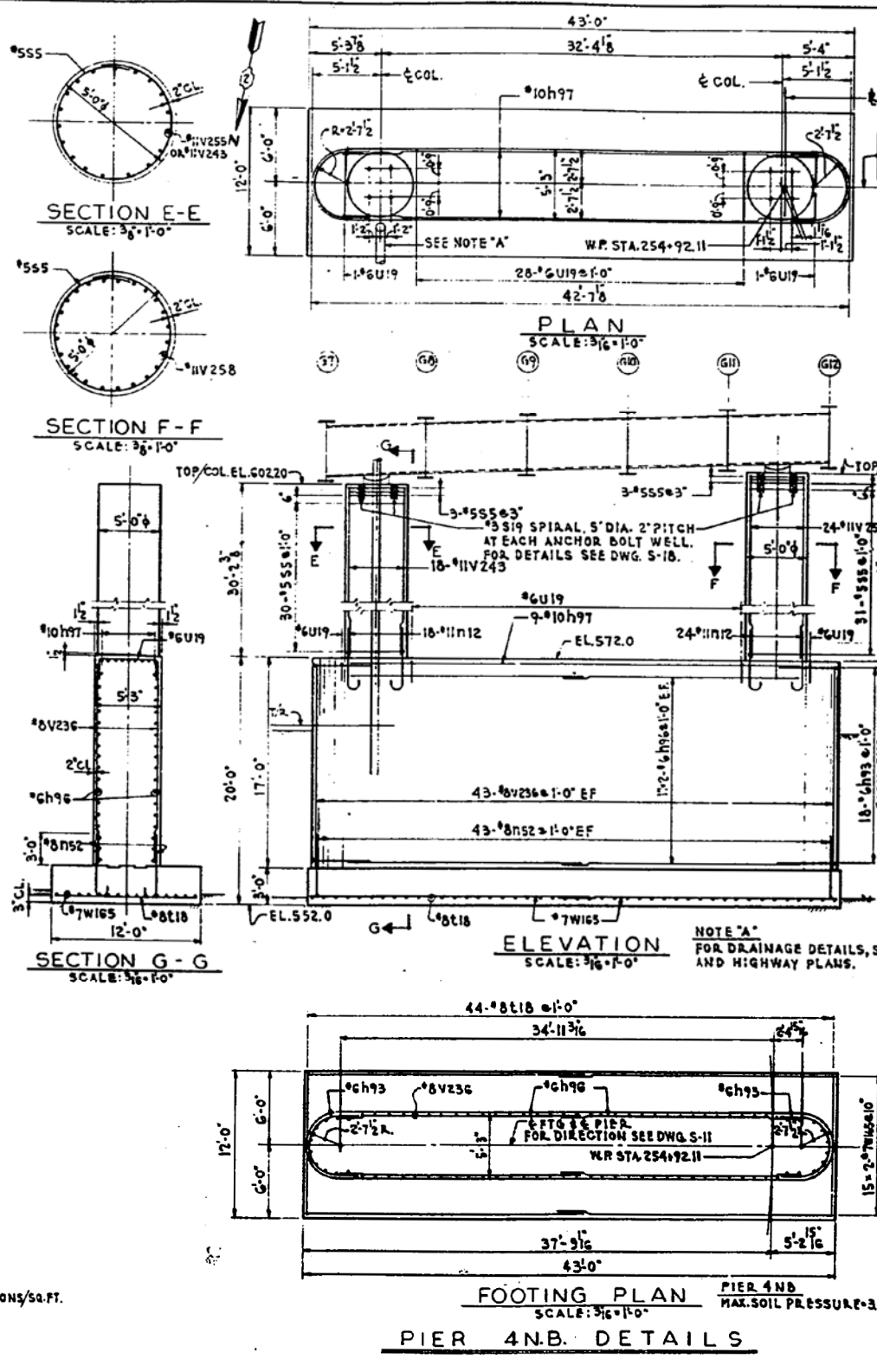
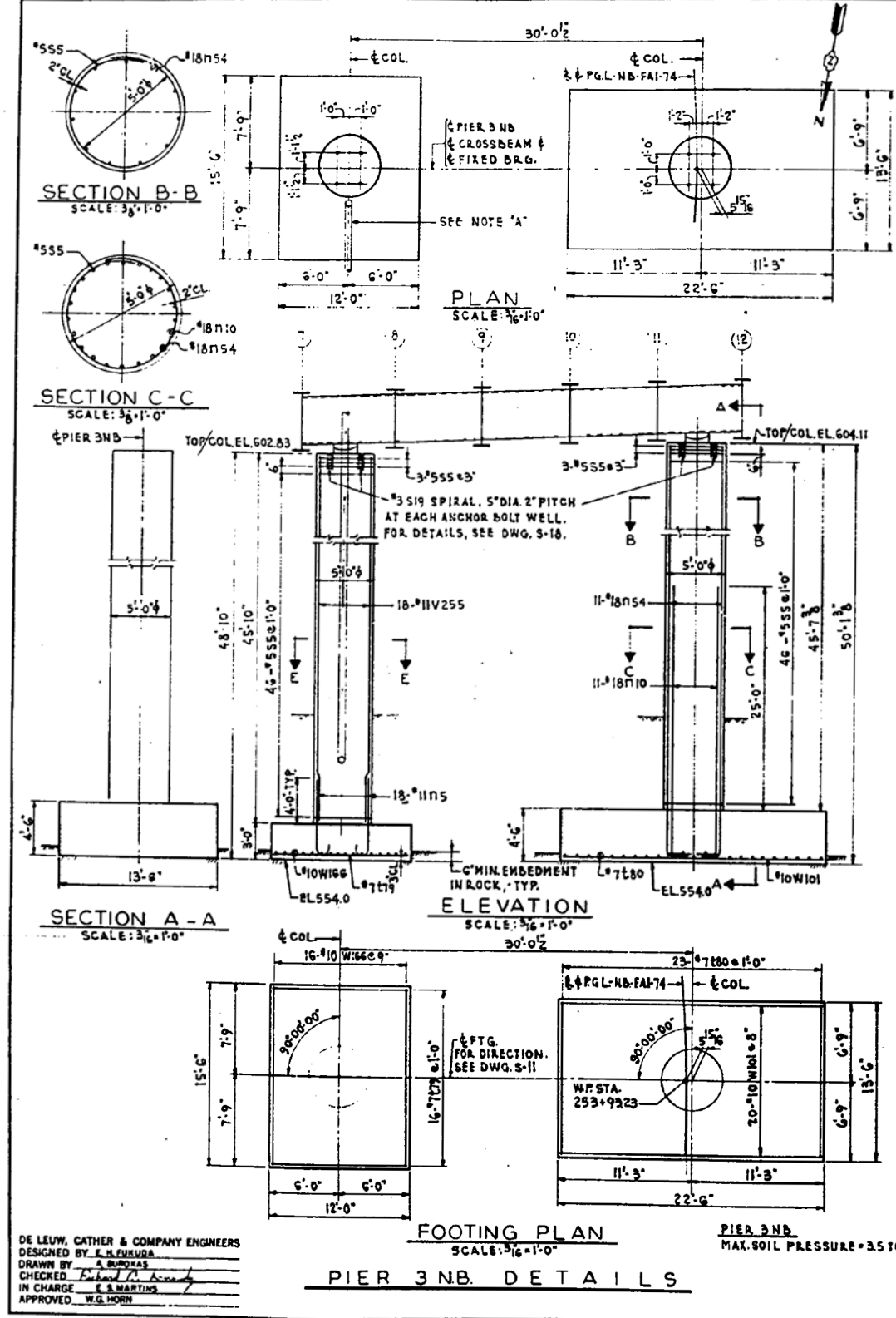
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1JR & 81-1HVB)	ROCK ISLAND	1504	638
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

SHEET NO. SX19 OF SX150 SHEETS

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DWG. NO. S-16			
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
F.A.L. 74	81-1HVB	ROCK ISLAND	298
PIER 3 NB		PIER 4 NB	75

REINFORCING BAR LIST			
BAR MARK	QUANTITY	BAR SIZE	LENGTH
N5	18	11	7'-11"
N10	11	10	31'-9"
N54	11	10	52'-4"
S5	98	5	16'-0"
S19	8	3	9'-10"
T79	16	7	11'-8"
T80	23	7	13'-2"
V255	18	11	45'-7"
W101	20	10	22'-2"
W106	16	10	15'-2"
H93	36	8	10'-7"
H96	68	8	19'-4"
H97	9	10	31'-9"
N12	42	11	9'-5"
N52	86	8	8'-7"
S19	8	3	9'-10"
T18	44	8	11'-8"
U19	30	8	7'-11"
V236	86	8	18'-10"
V243	18	11	30'-0"
V258	24	11	31'-2"
W165	30	7	22'-3"

NOTES: REFER TO DWG. S-11 FOR LOCATION OF WORK POINT FROM STAKE OUT LINE.
 BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.
 FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-18.
 ARRANGE COLUMN REINFORCING TO AVOID INTERFERENCE WITH AIS BARS EXTENDING INTO COLUMN.

BARS: N5, N12 & N52
 BAR H93
 BAR S5
 BAR U19
 29'-0" N10
 49'-7" N54
 BARS: N10 & N54

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	137.9
REINFORCEMENT BARS	POUND	23313
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	590
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	9

PIERS 3 (N.B.) AND 4 (N.B.)
 F.A.L. 74-SECTION 81-1HVB
 MOLINE VIADUCT
 ROCK ISLAND COUNTY
 STATION 265 + 20
 SCALE: AS NOTED DATE:

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 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 001078-A0321-002-Contract AB Demo-Rasters.brg	DESIGNED - AWH	REVISED -
MODEL : 11 Contract AB	CHECKED - AJK	REVISED -
	DRAWN - KMS	REVISED -
	CHECKED - AJK	REVISED -

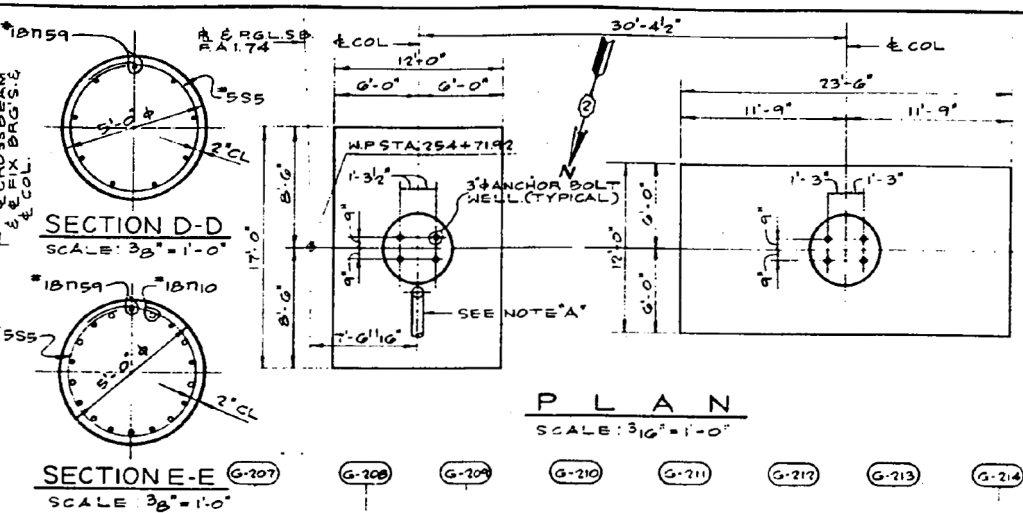
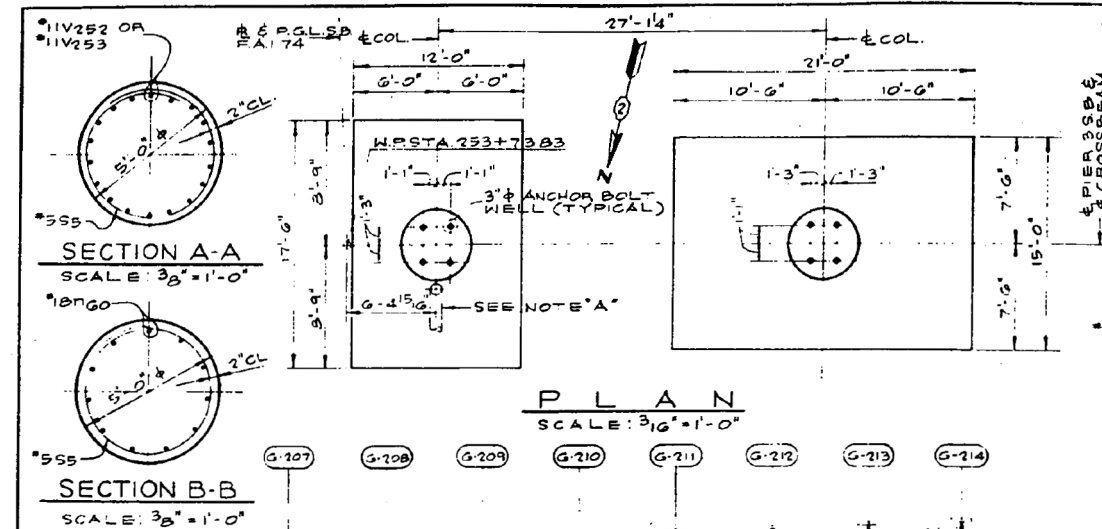
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX20 OF SX150 SHEETS

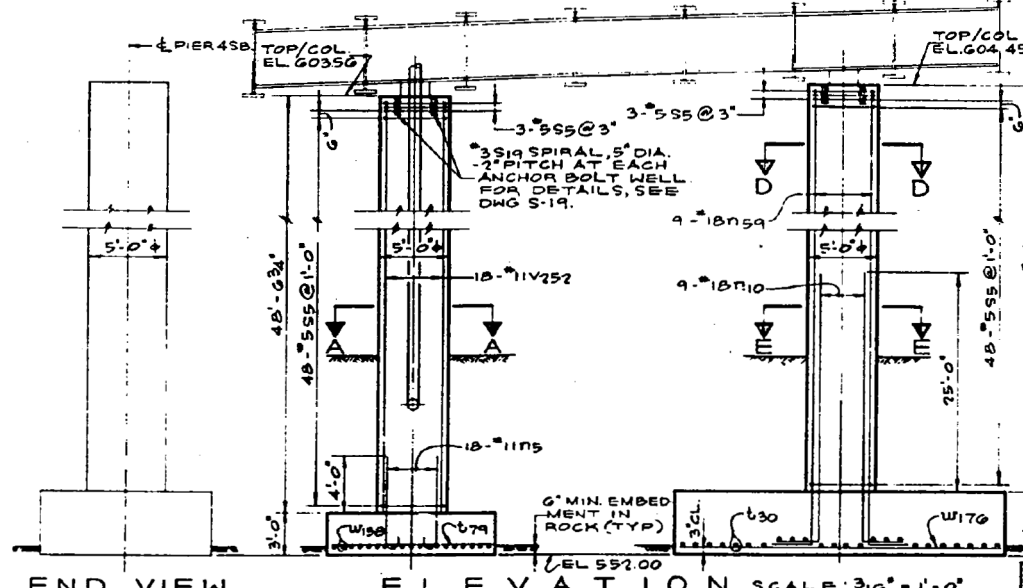
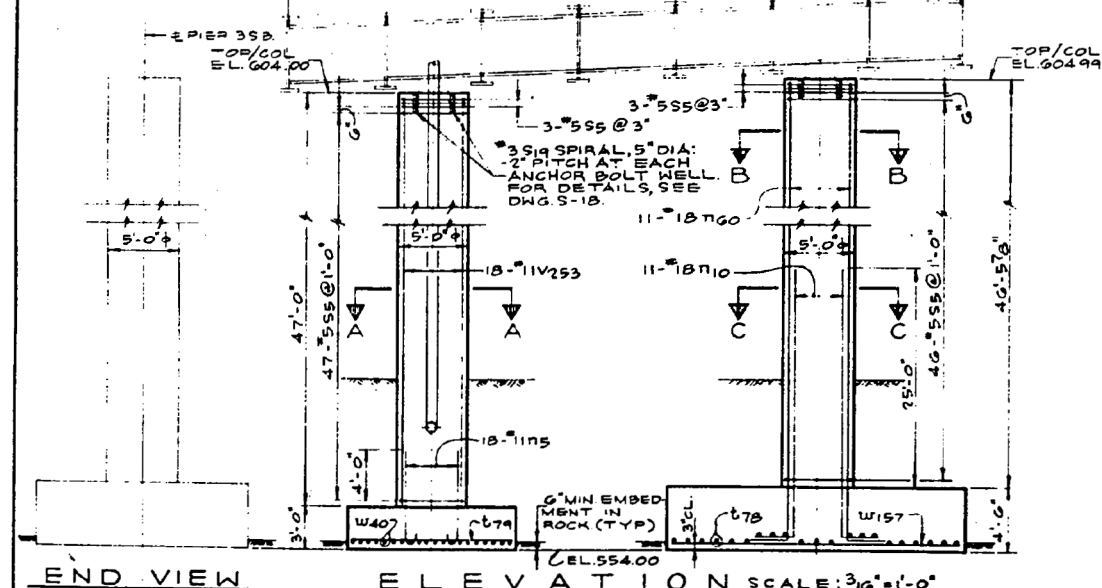
F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	639
CONTRACT NO. 64C08			ILLINOIS FED. AID PROJECT	

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ROUTE NO.	SHEET NO.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 74	81-1HV3	ROCK ISLAND	175	77

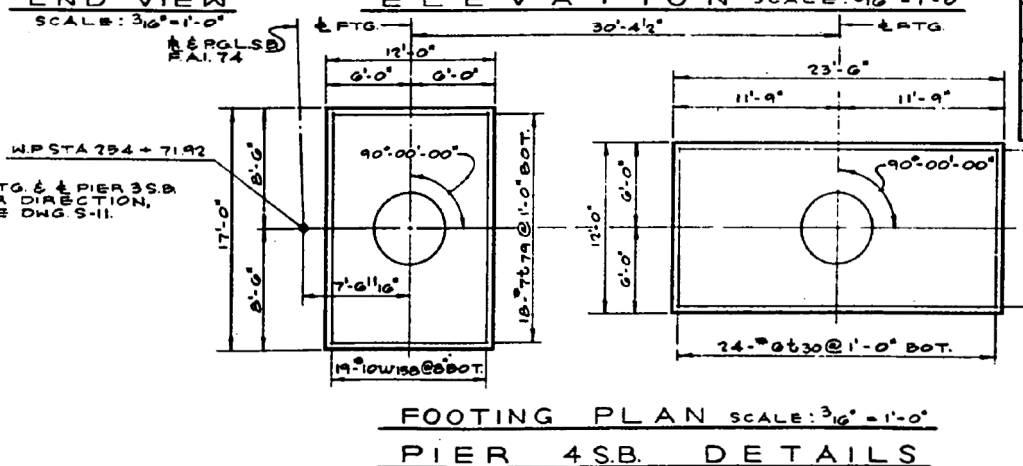
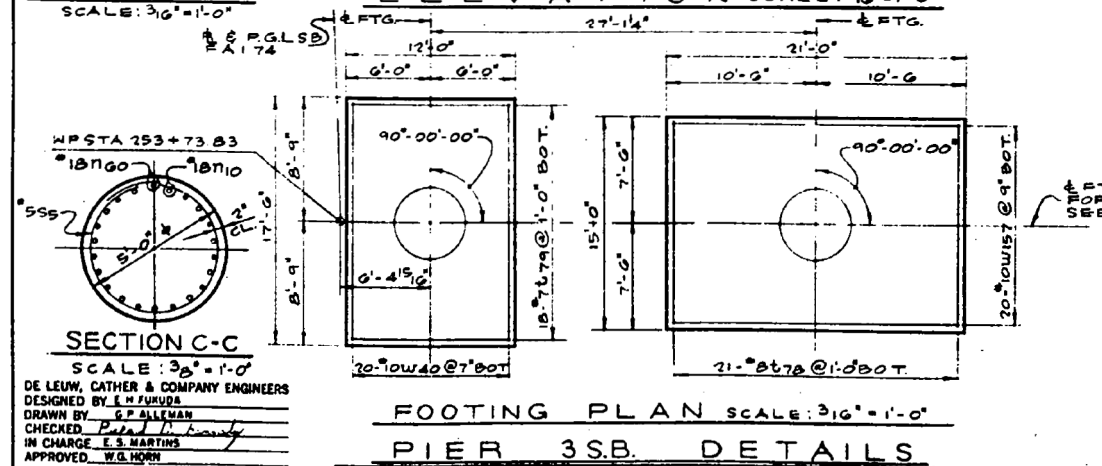
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
N5	18	11	7-11	11
N10	11	18	31-9	11
N60	11	18	53-2	11
S5	99	5	16-0	11
S19	8	3	9-10	11
T70	26	8	14-8	11
T79	18	7	11-8	11
V253	18	11	46-9	11
W40	20	10	17-2	11
W157	20	10	20-8	11
N5	18	11	7-11	11
N10	9	18	31-9	11
N59	9	18	34-7	11
S5	102	5	16-0	11
S19	8	3	9-10	11
T30	24	6	11-8	11
T79	18	7	11-8	11
V252	18	11	48-4	11
W158	19	10	16-0	11
W176	21	10	23-2	11



NOTE "A"
FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.

NOTES:
MAX. SOIL PRESSURE = 3.4 TONS/SQ. FT.
REFER TO DWG. S-11 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-18.

BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
N5	18	11	7-11	11
N10	11	18	31-9	11
N60	11	18	53-2	11
S5	99	5	16-0	11
S19	8	3	9-10	11
T70	26	8	14-8	11
T79	18	7	11-8	11
V253	18	11	46-9	11
W40	20	10	17-2	11
W157	20	10	20-8	11



ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CUYD	143.8
REINFORCEMENT BARS	POUND	24121
CLASS A EXCAVATION FOR STRUCTURES	CUYD	349
ROCK EXCAVATION FOR STRUCTURES	CUYD	10

PIERS 3 (S.B.) AND 4 (S.B.)
F.A. 74-SECTION 81-1HV3
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 263 + 20
SCALE: AS NOTED DATE:



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
0810178-A0321-002-Contract AB Demo-Rasters.brg

MODEL:
12-Contract AB

USER NAME : ksnider
DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK
PLOT DATE : 1/18/2017

DESIGNED - AWH
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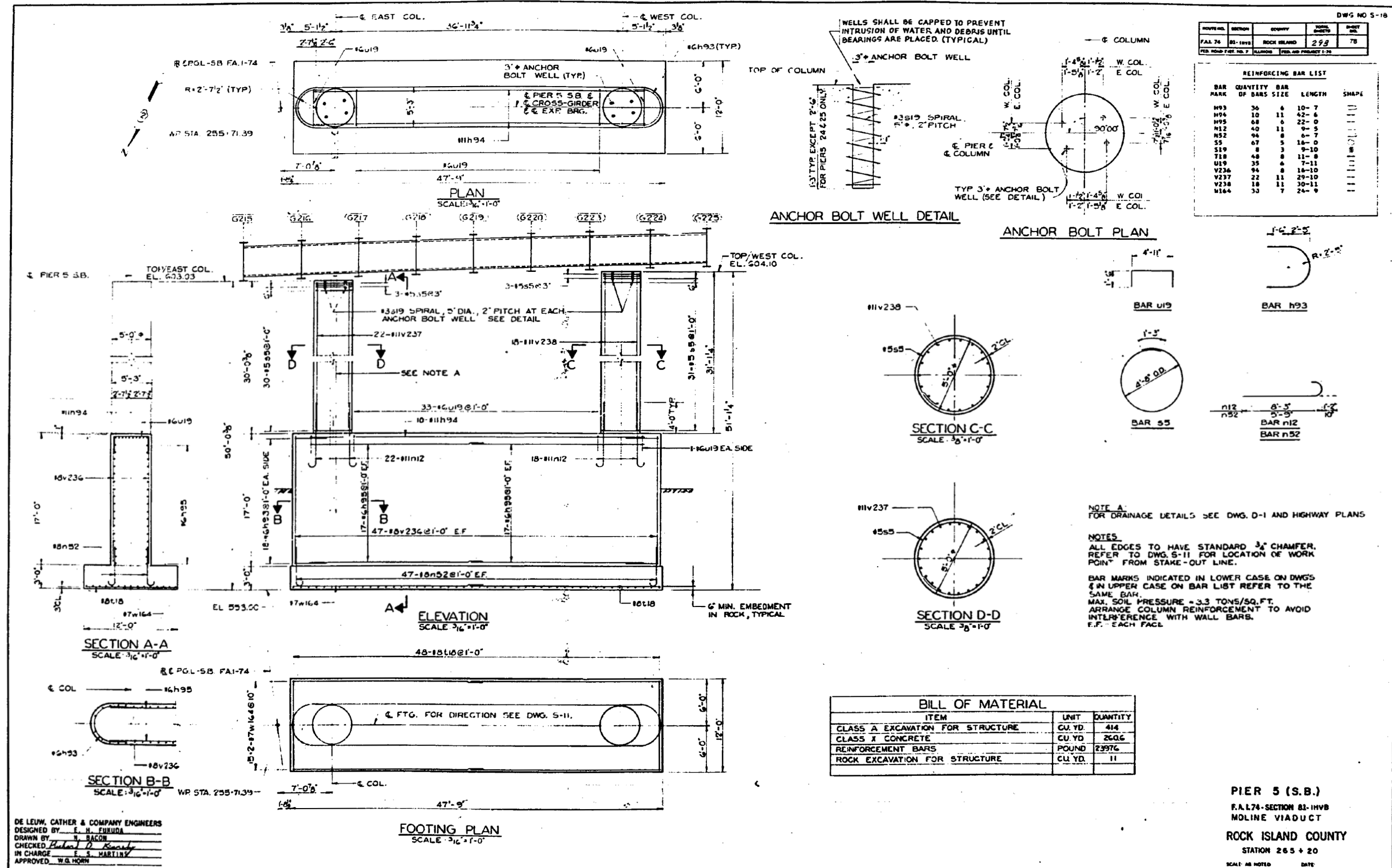
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX21 OF SX150 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVBR	ROCK ISLAND	1504	640
				CONTRACT NO. 64C08
ILLINOIS FED. AID PROJECT				



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME:
0810178-A0321-002-Contract AB Demo.Rasters.brg

MODEL:
13 Contract AB

USER NAME: ksnider
PLOT SCALE:
PLOT DATE: 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
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REVISED -
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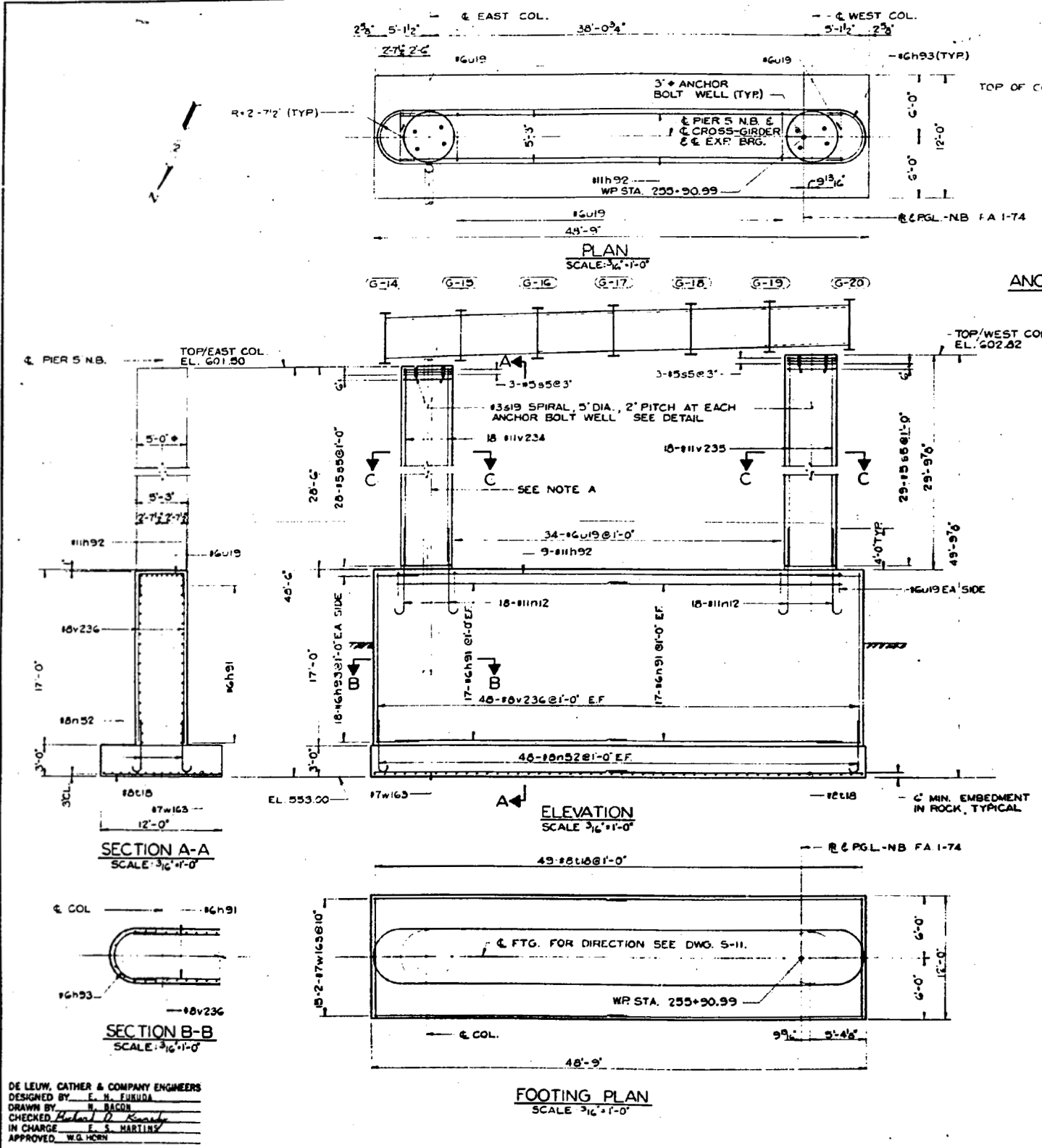
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX22 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	641
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



ANCHOR BOLT WELL DETAIL

ANCHOR BOLT PLAN

SECTION C-C
SCALE: 3/8"=1'-0"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 174	81-1HVB	ROCK ISLAND	298	79

BAR MARK	QUANTITY	BAR SIZE	LENGTH	REMARKS
H91	68	6	22'-6"	
H92	9	11	43'-6"	
H93	36	6	10'-7"	
H12	36	11	9'-5"	
H52	96	8	6'-7"	
S5	63	5	16'-0"	
V19	8	3	9'-10"	
V234	36	6	7'-11"	
V235	18	11	28'-3"	
V236	18	11	29'-7"	
V163	30	8	25'-1"	

NOTE A:
FOR DRAINAGE DETAILS SEE DWG. D-1 AND HIGHWAY PLANS

NOTES:
ALL EDGES TO HAVE STANDARD 3/4" CHAMFER.
REFER TO DWG. S-11 FOR LOCATION OF WORK POINT FROM STAKE-OUT LINE.

BAR MARKS INDICATED IN LOWER CASE ON DWGS & IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.
MAX. SOIL PRESSURE = 3.0 TONS/SQ. FT.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH WALL BARS.
E.F. = EACH FACE

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU. YD.	422
CLASS X CONCRETE	CU. YD.	2635
REINFORCEMENT BARS	POUND	23329
ROCK EXCAVATION FOR STRUCTURE	CU. YD.	11

PIER 5 (N.B.)
F.A. 174-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE AS NOTED DATE:

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Alfred Benesch & Company
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Chicago, Illinois 60601
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FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A. 174-SECTION	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	642
				CONTRACT NO. 64C08

FILE NAME : 0810178-A0321-002-Contract AB Demo_Rasters.brg
MODEL : 14 Contract AB

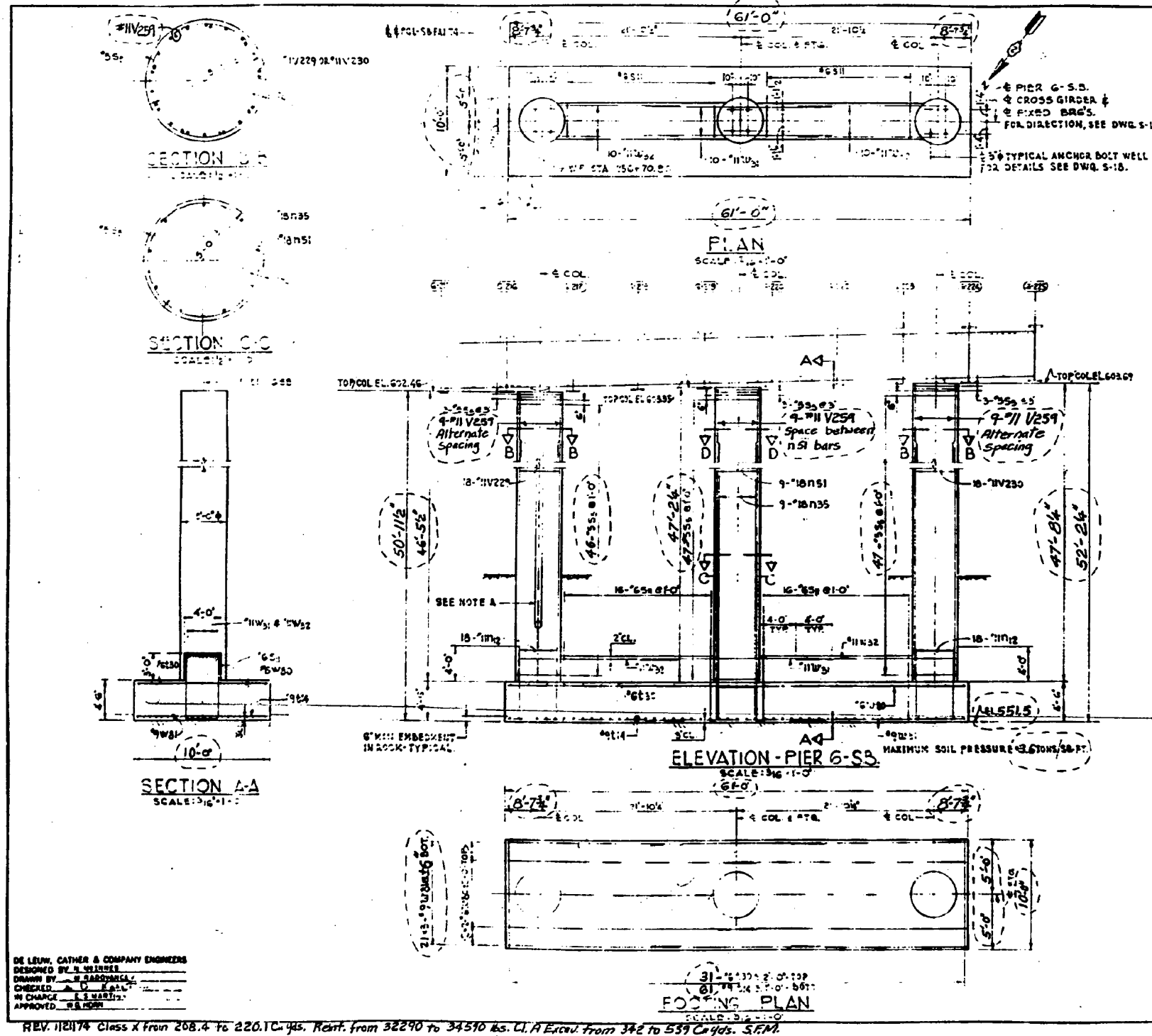
USER NAME : ksnider
DESIGNED BY : E. H. FUKUDA
DRAWN BY : N. BACON
CHECKED BY : Michael D. Kennedy
IN CHARGE : E. S. MARTINEZ
APPROVED : W.G. HORN

DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

SHEET NO. SX23 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT

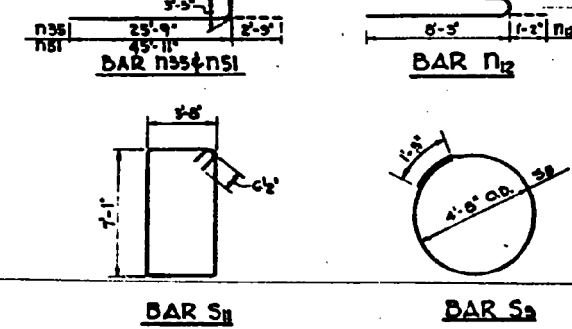
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BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
#12	16	#12	3'-0"	
#14	7	#14	18'-0"	
#16	14	#16	18'-0"	
#18	12	#18	18'-0"	
#20	12	#20	18'-0"	
#22	12	#22	18'-0"	
#24	12	#24	18'-0"	
#26	12	#26	18'-0"	
#28	12	#28	18'-0"	
#30	12	#30	18'-0"	
#32	12	#32	18'-0"	
#34	12	#34	18'-0"	
#36	12	#36	18'-0"	
#38	12	#38	18'-0"	
#40	12	#40	18'-0"	
#42	12	#42	18'-0"	
#44	12	#44	18'-0"	
#46	12	#46	18'-0"	
#48	12	#48	18'-0"	
#50	12	#50	18'-0"	
#52	12	#52	18'-0"	
#54	12	#54	18'-0"	
#56	12	#56	18'-0"	
#58	12	#58	18'-0"	
#60	12	#60	18'-0"	
#62	12	#62	18'-0"	
#64	12	#64	18'-0"	
#66	12	#66	18'-0"	
#68	12	#68	18'-0"	
#70	12	#70	18'-0"	
#72	12	#72	18'-0"	
#74	12	#74	18'-0"	
#76	12	#76	18'-0"	
#78	12	#78	18'-0"	
#80	12	#80	18'-0"	
#82	12	#82	18'-0"	
#84	12	#84	18'-0"	
#86	12	#86	18'-0"	
#88	12	#88	18'-0"	
#90	12	#90	18'-0"	
#92	12	#92	18'-0"	
#94	12	#94	18'-0"	
#96	12	#96	18'-0"	
#98	12	#98	18'-0"	
#100	12	#100	18'-0"	

NOTE A:
FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.

NOTES:
REFER TO DWG. S-11 FOR LOCATION OF WORK POINT FROM STAKE-OUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
ALL EDGES TO HAVE STANDARD 1/4" CHAMFER.
MIN. BAR LAP 24 DIA.
KEY TO BAR INDICATION: 21#5-9 ETC. INDICATES 21 LINES OF #5 BARS WITH 9 LENGTHS PER LINE.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH AID BARS EXTENDING INTO COLUMNS.



ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	220.1
REINFORCEMENT BARS	POUND	34,590
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	539
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	11

AS REVISED
JAN. 18, 1974

PIER 6 (S.B.)
KALM-SECTION 62-HVBR
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE AS SHOWN



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :	USER NAME :	DESIGNED :	REVISIONS :
0810178-A0321-002-Contract AB Demo-Rasters.brg	ksnyder	AWH	
		AJK	
		KMS	
		AJK	

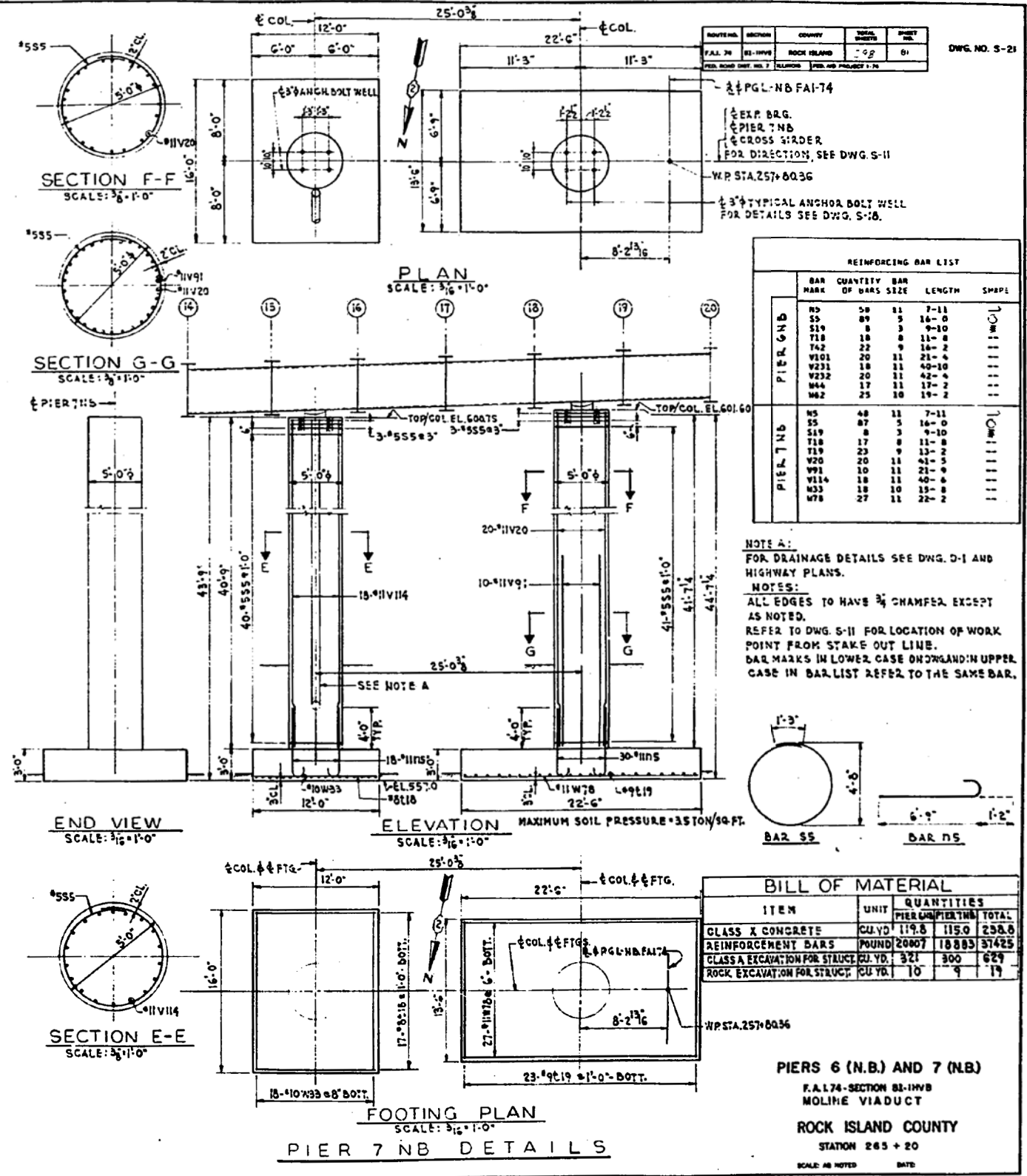
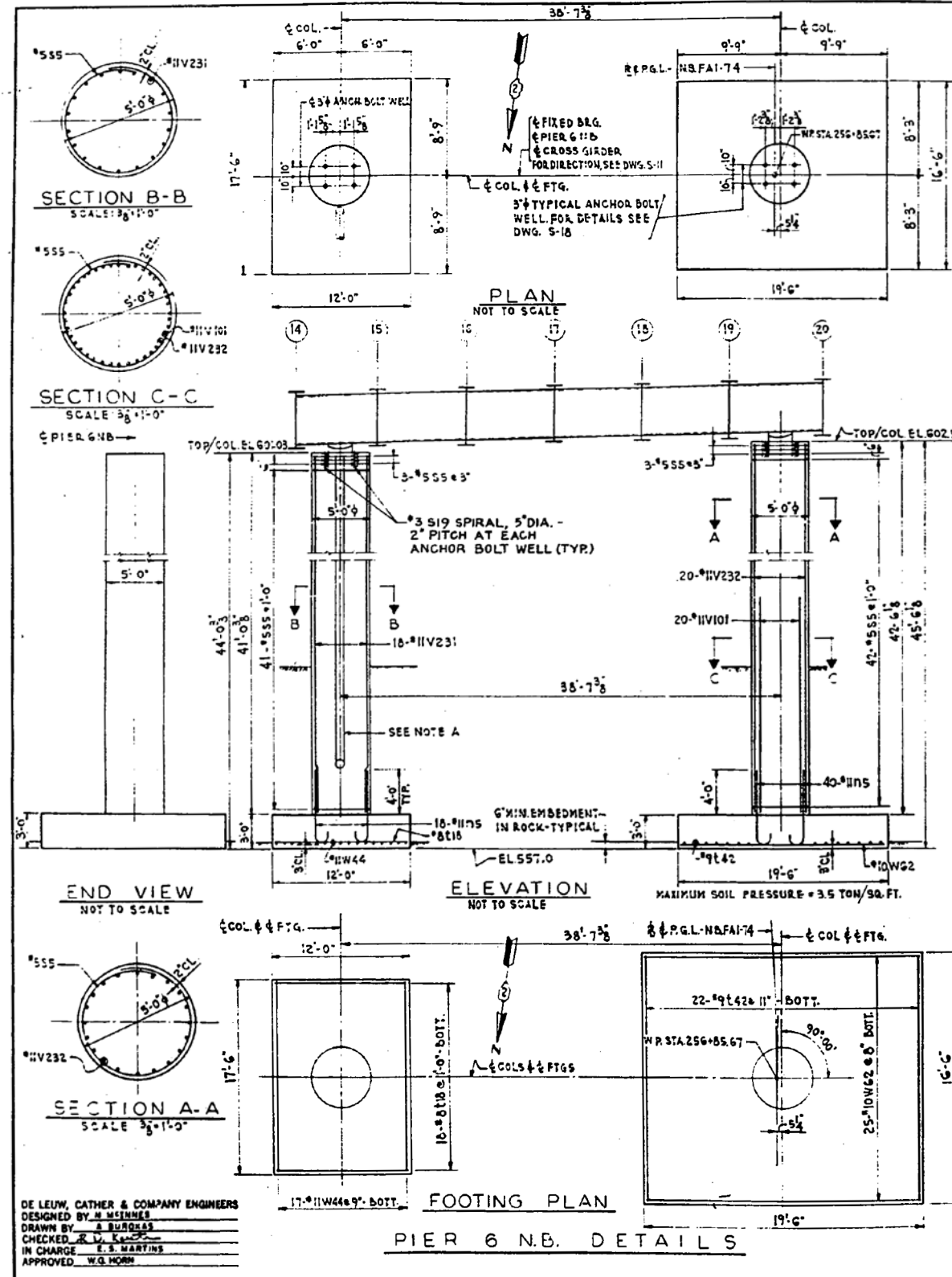
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	643
CONTRACT NO. 64C08				

SHEET NO. SX24 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

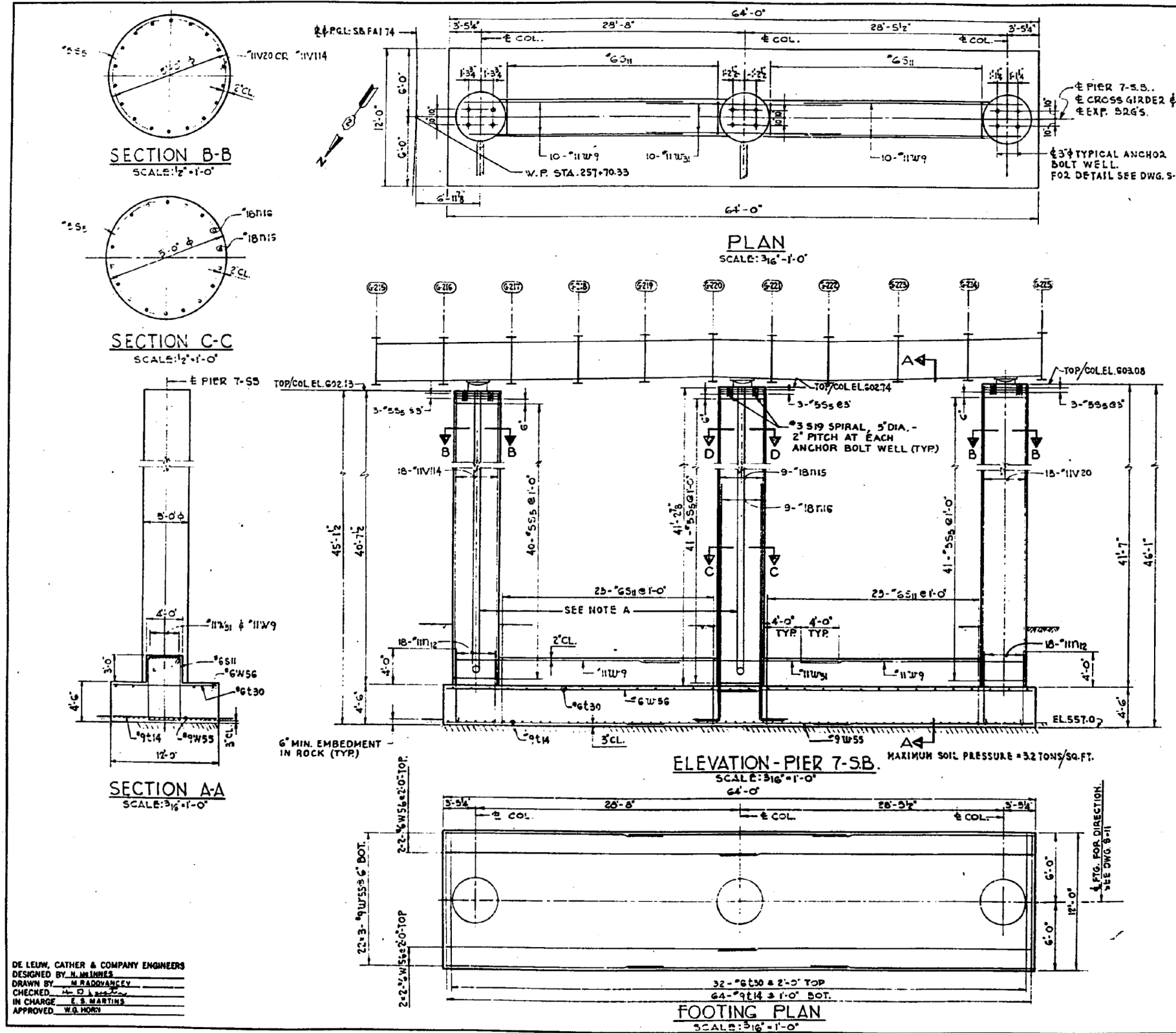
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVB)	ROCK ISLAND	1504	644
CONTRACT NO. 64C08				ILLINOIS FED. AID PROJECT

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg
MODEL : 16-Contract AB

USER NAME : ksnider
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

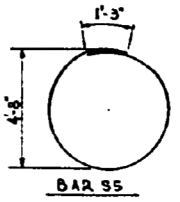
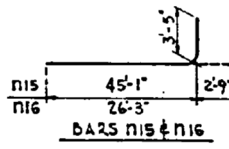
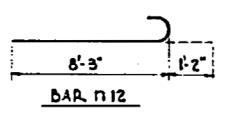
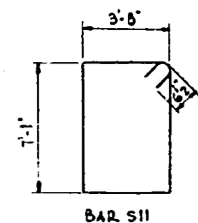
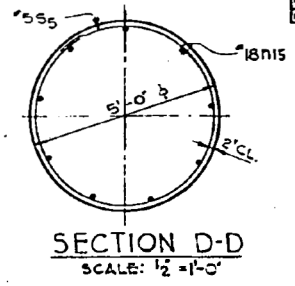
SHEET NO. SX25 OF SX150 SHEETS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	81-1HVB	ROCK ISLAND	1504	645
F&I ROAD DIST. NO. 7				
F&I ROAD PROJECT 1-20				

DWG. NO. S-22

REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
N12	36	11	9'-5"	U
N15	9	18	47'-10"	U
N16	9	18	29'-0"	U
S5	131	5	16'-0"	U
S11	46	6	22'-7"	U
S19	12	3	9'-10"	U
T14	64	9	11'-8"	U
T30	32	6	11'-8"	U
V20	18	11	41'-5"	U
V114	18	11	40'-6"	U
W9	20	11	23'-6"	U
W31	10	11	21'-0"	U
W55	46	9	23'-0"	U
W56	8	6	32'-0"	U



NOTE 2'
FOR DRAINAGE DETAILS SEE DWG. D-1 AND HIGHWAY PLANS.

NOTES:
ALL EDGES TO HAVE 3/4" CHAMFER.
MINIMUM BAR LAP = 24 DIA.
KEY TO BAR INDICATION: 22-3-9 ETC. INDICATES 22 LINES OF #9 BARS WITH THREE LENGTHS PER LINE.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMNS.
BAR MARKS INDICATED E30 ETC REFER TO MARK T30 ETC. IN THE REINFORCING BAR LIST.
REFER TO DWG. S-11 FOR LOCATION OF WORK POINT FROM STAKE OUT LINE.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	239.9
REINFORCEMENT BARS	POUND	35088
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	444
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	14

PIER 7 (S.B.)
F&I 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE AS NOTED DATE

DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY: N. MINNIES
DRAWN BY: M. RADOVANECY
CHECKED: H. O. MARTIN
IN CHARGE: E. S. MARTIN
APPROVED: W. G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

USER NAME = ksnider	DESIGNED - AWH	REVISED -
PLOT SCALE =	CHECKED - AJK	REVISED -
PLOT DATE = 1/18/2017	DRAWN - KMS	REVISED -
	CHECKED - AJK	REVISED -

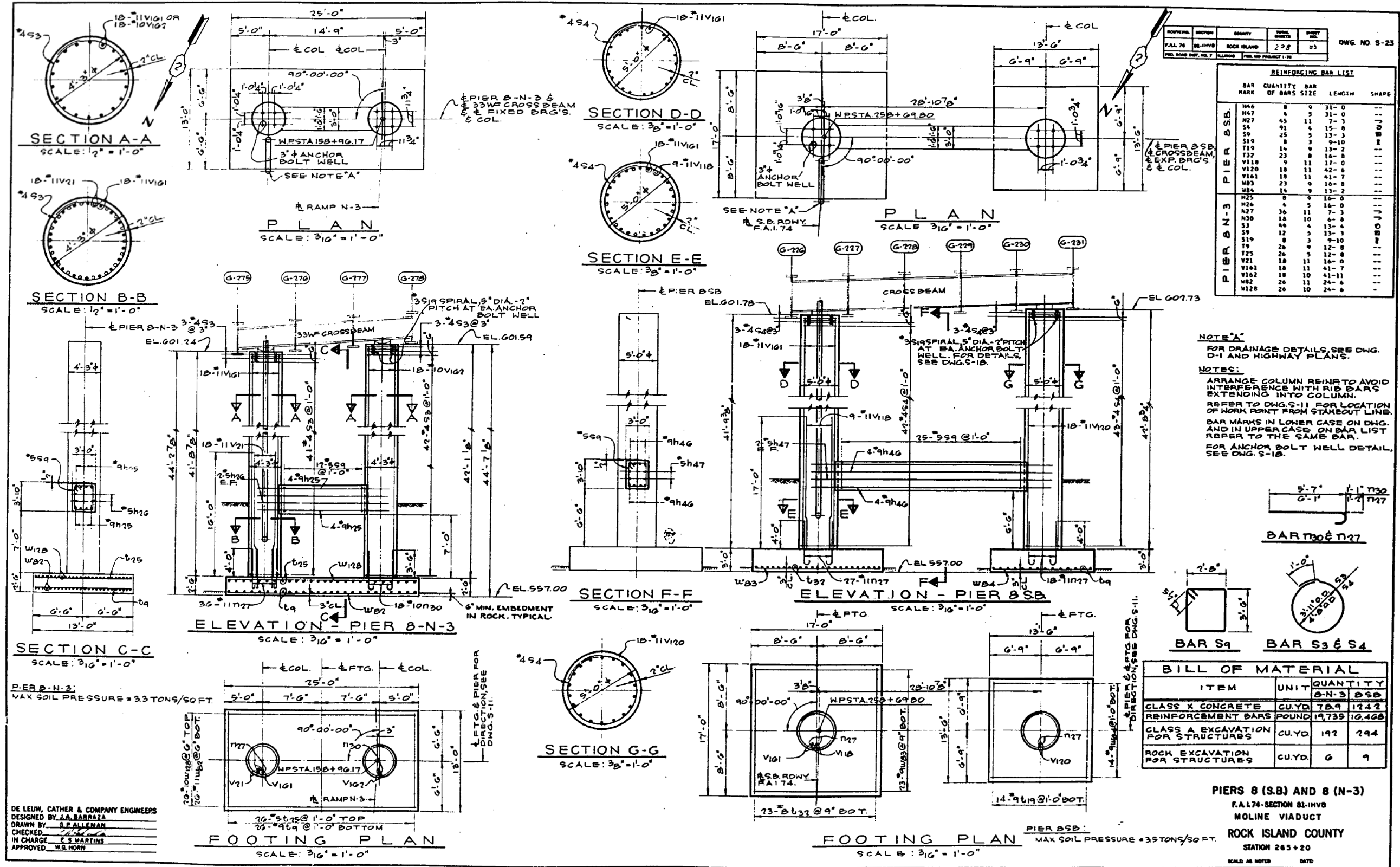
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F&I RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	645
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

SHEET NO. SX26 OF SX150 SHEETS

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME:
0810178-AB321-002-Contract AB Demo_Rasters.brg

MODEL:
18 Contract AB

USER NAME: ksnider
PLOT SCALE:
PLOT DATE: 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK

REVISED -
REVISED -
REVISED -
REVISED -

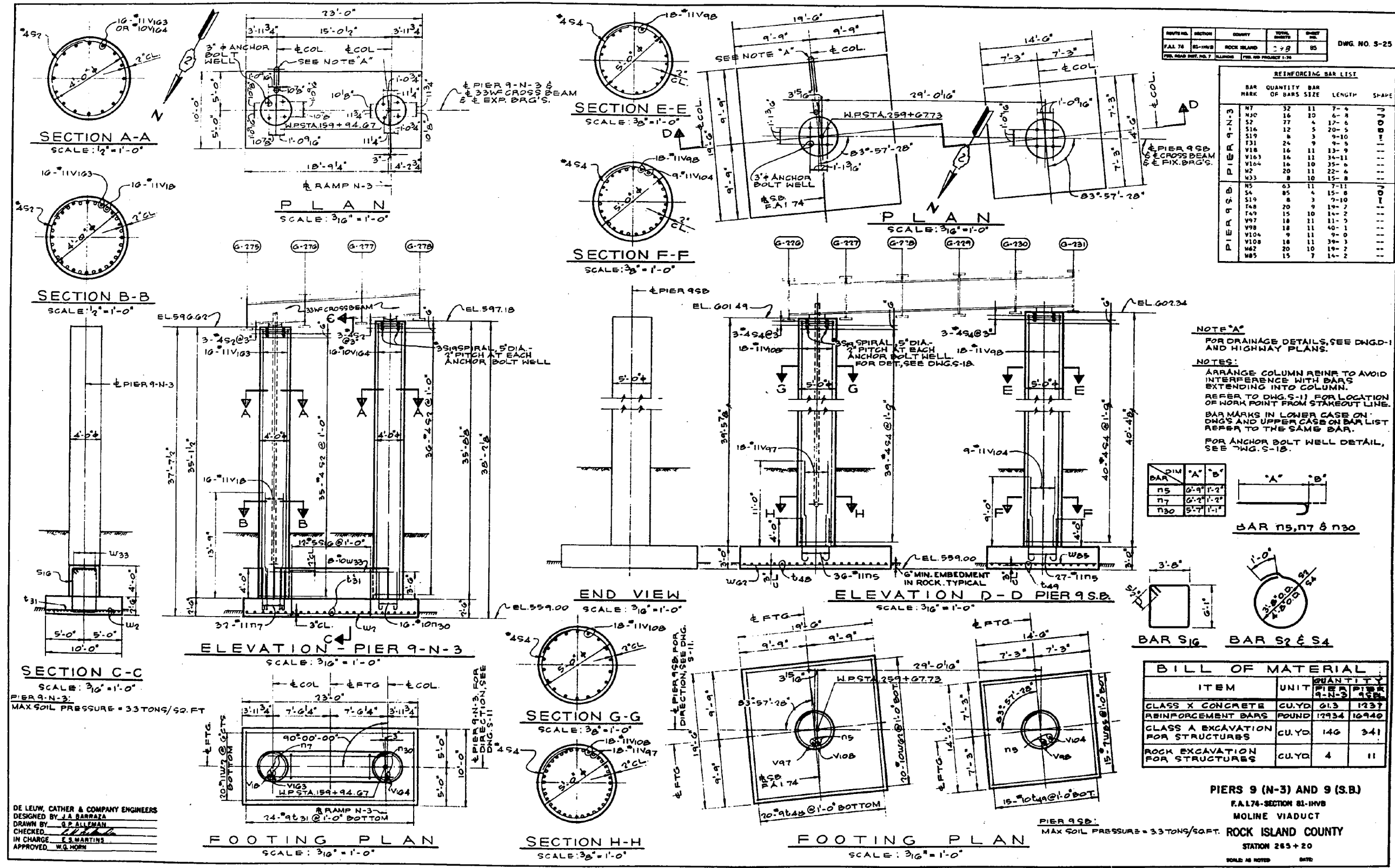
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX27 OF SX150 SHEETS

F.A.174-SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74 (81-1R & 81-1HVB)	ROCK ISLAND	1504	646
CONTRACT NO. 64C08			

ILLINOIS FED. AID PROJECT



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-HVB	ROCK ISLAND	1504	648
F.A.I. 74	81-HVB	ROCK ISLAND	1504	648

REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR OF BARS SIZE	LENGTH	SHAPE
N7	32	11	7'-4"	J
N10	16	10	6'-8"	J
S2	77	4	17'-6"	J
S16	12	5	20'-5"	J
S19	6	3	9'-10"	J
S31	24	9	9'-5"	J
V18	16	11	13'-9"	J
V103	16	11	34'-11"	J
V104	16	10	35'-6"	J
V2	20	11	22'-6"	J
V23	8	10	15'-8"	J
N5	63	11	7'-11"	J
S4	85	4	15'-8"	J
S19	8	3	7'-10"	J
T48	20	9	14'-2"	J
T49	15	10	14'-2"	J
V97	18	11	11'-7"	J
V98	18	11	40'-1"	J
V104	9	11	9'-0"	J
V108	18	11	38'-3"	J
V42	20	10	19'-2"	J
V85	15	7	14'-2"	J

NOTE "A"
FOR DRAINAGE DETAILS, SEE DWG-D-1 AND HIGHWAY PLANS.

NOTES:
ARRANGE COLUMN REIN TO AVOID INTERFERENCE WITH BARS EXTENDING INTO COLUMN.
REFER TO DWG-S-11 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWGS AND UPPER CASE ON BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAIL, SEE DWG-S-18.

DIM	"A"	"B"
BAR N5	6'-9"	1'-2"
N7	6'-2"	1'-2"
N30	5'-7"	1'-1"

BAR N5, N7 & N30

BAR S16

BAR S2 & S4

BILL OF MATERIAL			
ITEM	UNIT	QUANTITY	PIER 9-N-3
CLASS X CONCRETE	CU.YD	613	1237
REINFORCEMENT BARS	POUND	17934	16940
CLASS A EXCAVATION FOR STRUCTURES	CU.YD	146	341
ROCK EXCAVATION FOR STRUCTURES	CU.YD	4	11

PIERS 9 (N-3) AND 9 (S-B)
F.A.I. SECTION 81-HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 263+20
SCALE AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg	DESIGNED - AWH	REVISED -
MODEL : 20 Contract AB	CHECKED - AJK	REVISED -
	DRAWN - KMS	REVISED -
	CHECKED - AJK	REVISED -

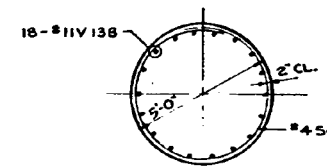
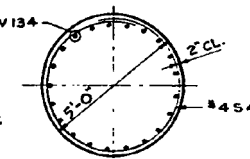
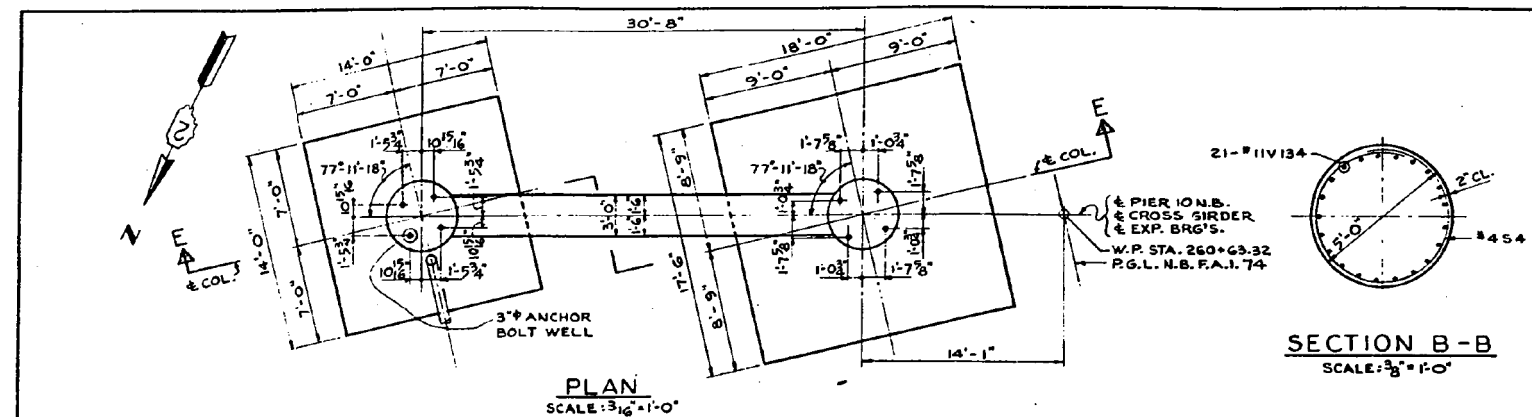
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	648
CONTRACT NO. 64C08				

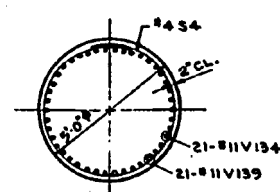
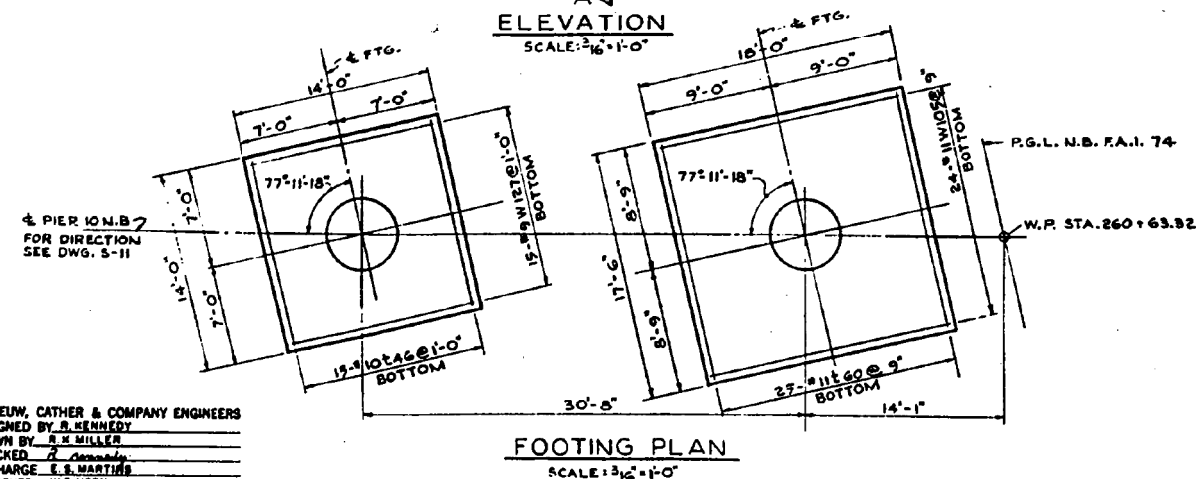
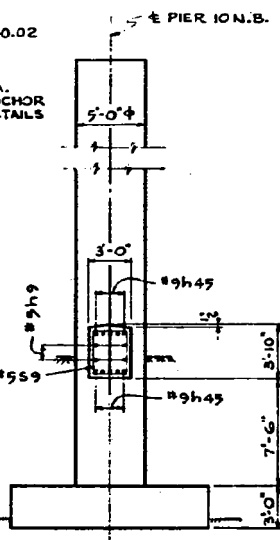
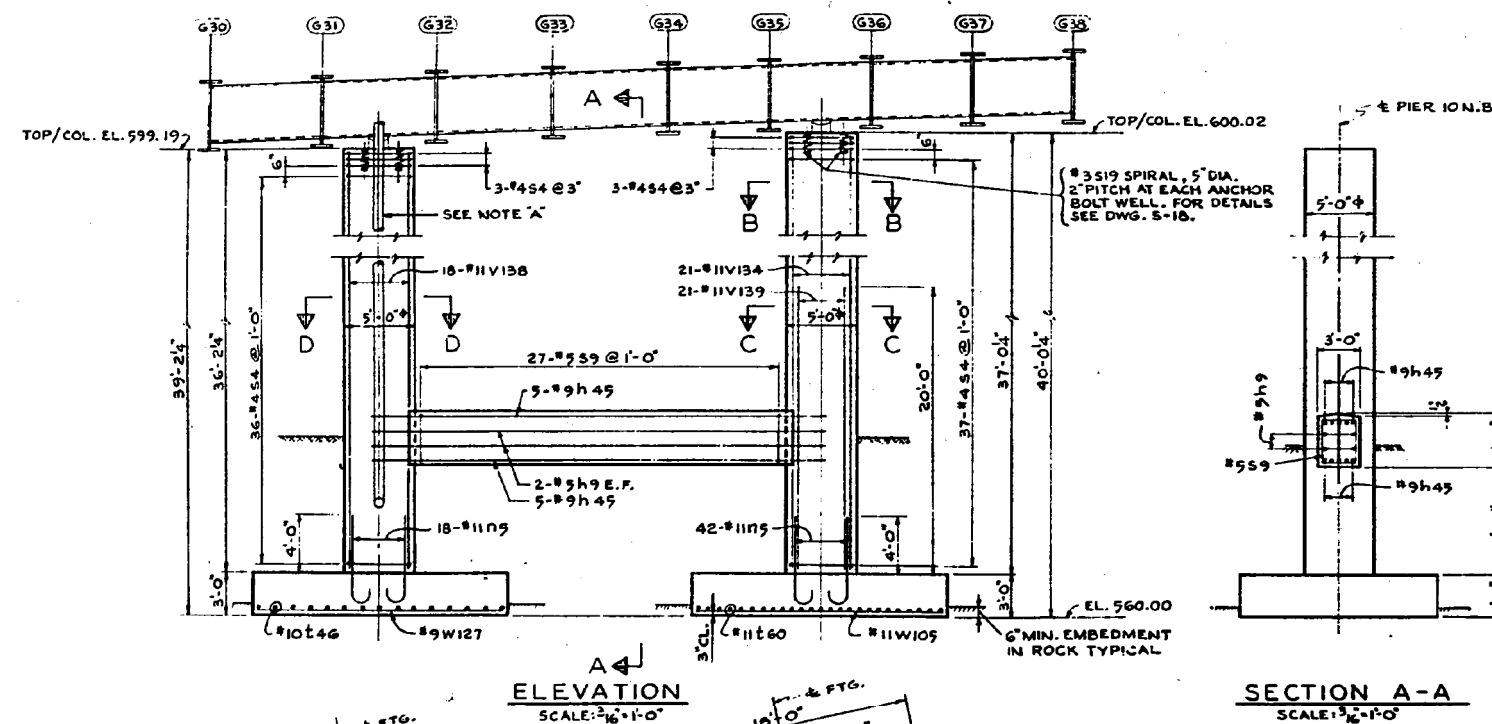
SHEET NO. SX29 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT



DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FALL 74	SL-11VS	ROCK ISLAND	292	86
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-14	

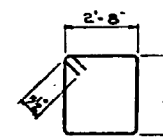
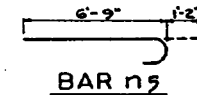
REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR OF SIZE	LENGTH	SHAP
H9	4	5	31 - 3	--
H45	10	9	31 - 3	--
H5	90	1	7 - 11	--
S4	79	4	15 - 8	--
S9	27	5	13 - 3	--
S19	8	3	9 - 10	--
L46	15	10	13 - 8	--
L60	25	11	17 - 2	--
V134	21	11	36 - 10	--
V138	18	11	36 - 0	--
V139	21	11	20 - 0	--
M05	24	9	17 - 0	--
M127	15	9	13 - 8	--



NOTE "A":
FOR DRAINAGE DETAILS, SEE DWG. D-1 AND
HIGHWAY PLANS.

NOTES:

ARRANGE COLUMN REINF. TO AVOID INTERFERENCE
WITH RIB BARS EXTENDING INTO COLUMN.
REFER TO DWS. 5-II FOR LOCATION OF WORK
POINT FROM STAKE-OUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN
UPPER CASE ON BAR LIST REFER TO THE SAME
BAR.
FOR ANCHOR BOLT WELL DETAIL, SEE DWS. 5-18.



BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU.YD.	121.3
REINFORCEMENT BARS	POUND	20,842
CLASS A EXCAVATION FOR STRUCTURES	CU.YD.	343
ROCK EXCAVATION FOR STRUCTURES	CU.YD.	9

PIER 10 (N.B.)

F.A.L.74-SECTION 81-1HVB

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED

DATE: _____

DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY R. KENNEDY
DRAWN BY R. M. MILLER
CHECKED R. Kennedy
IN CHARGE E. S. MARTIN
APPROVED W. G. HORN

PIER 10 N.B.
MAX. SOIL PRESSURE = 3.5 TONS/SQ. FT.



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0010178-A0321-002-Contract AB Demo-Registers.bro

USER NAME = ksnider
PLOT SCALE =
PLOT DATE = 1/18/2017

DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

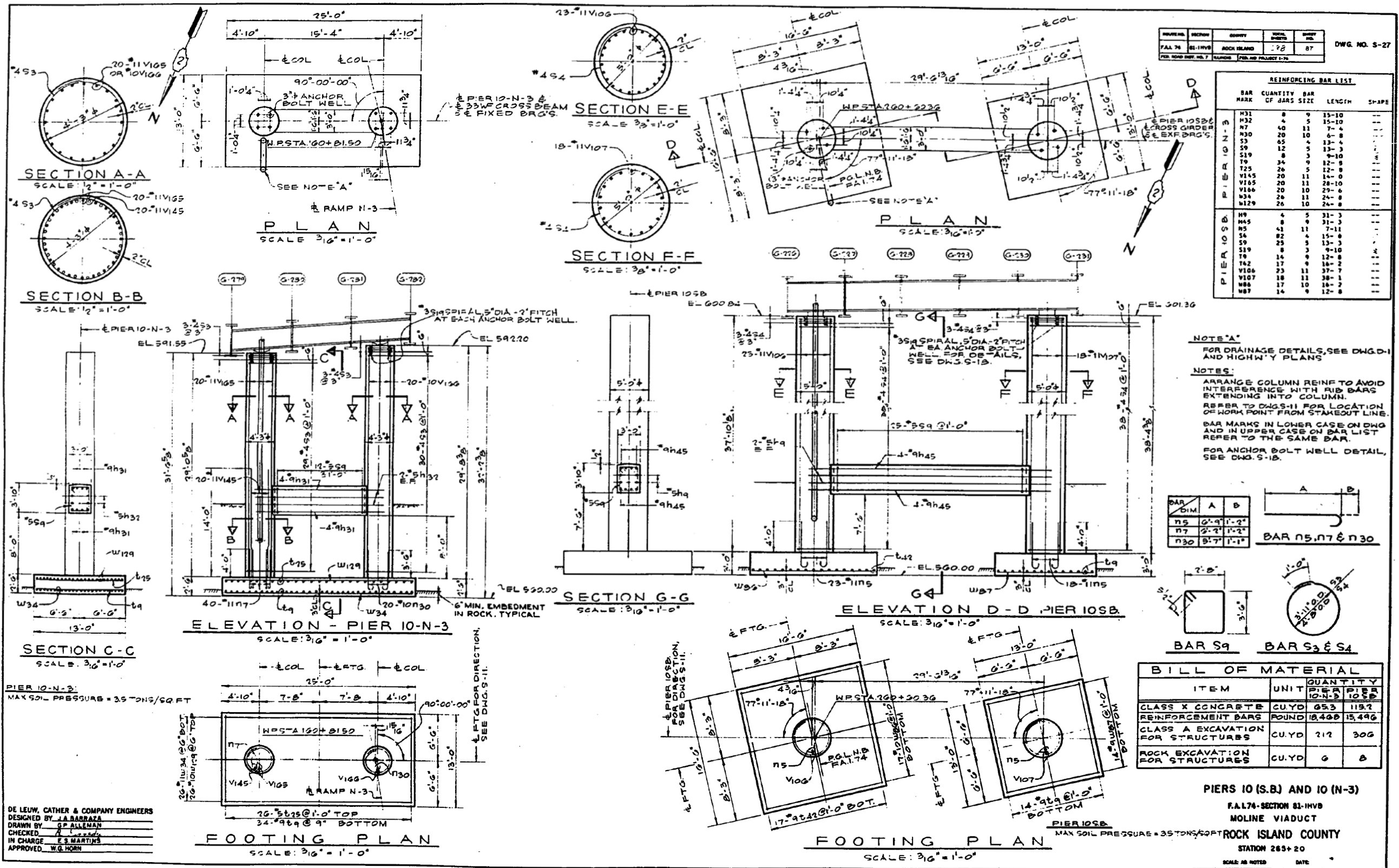
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

SHEET NO. SX30 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	649
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

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Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
 0010178-AB321-002-Contract AB Demo-Rasters.brg

MODEL:
 22 Contract AB

USER NAME : ksnider
 PLOT SCALE :
 PLOT DATE : 1/18/2017

DESIGNED - AWH
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK

REVISED -
 REVISED -
 REVISED -
 REVISED -

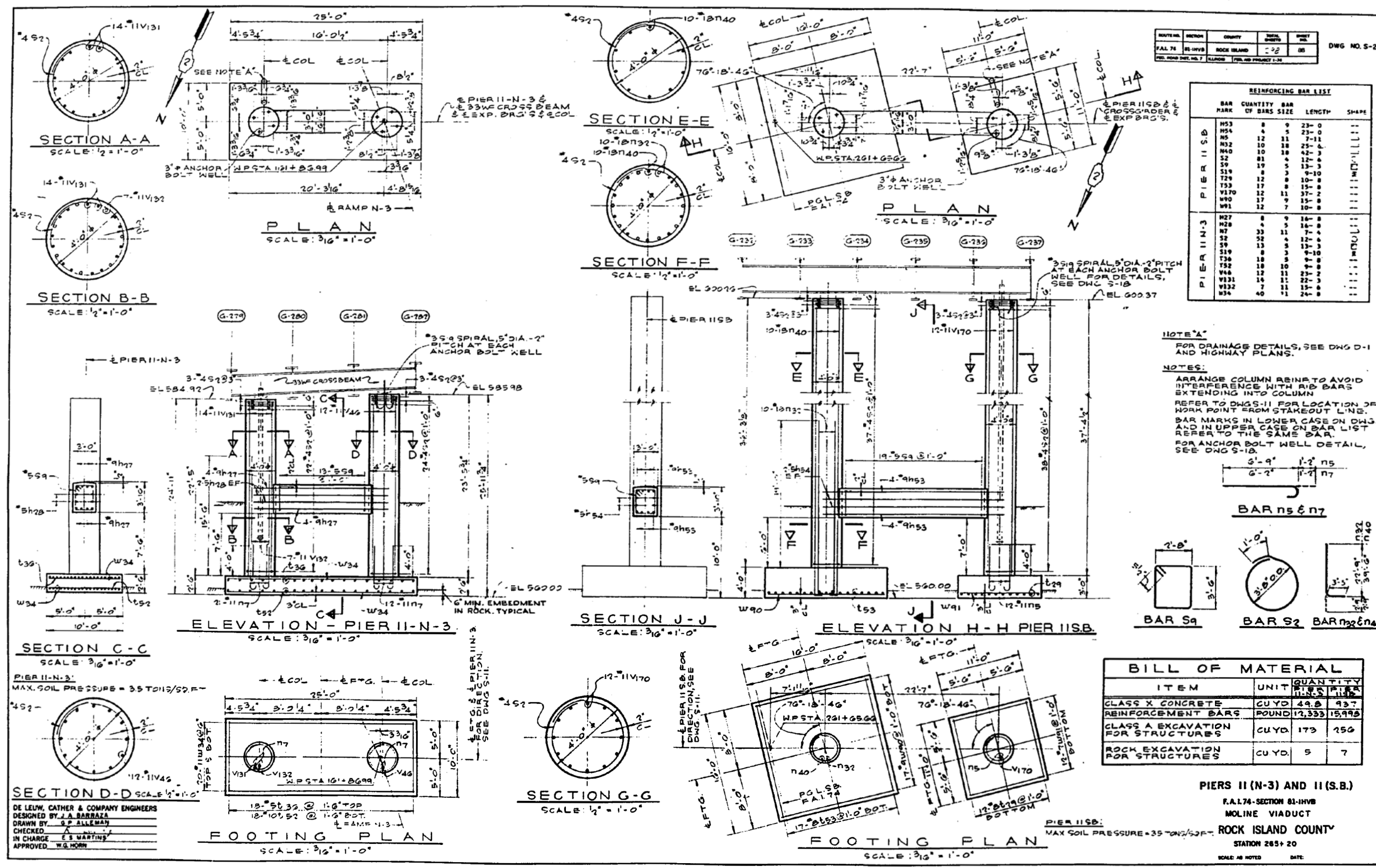
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX31 OF SX150 SHEETS

F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	650
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 74	81-HVB	ROCK ISLAND	1504	651
DWG NO. S-28				

REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
PIER II-N-3				
H53	8	9	23'-0"	...
H54	4	5	23'-0"	...
H5	12	11	7'-11"	...
H32	10	18	25'-6"	...
H40	10	18	42'-3"	...
S2	81	4	12'-6"	...
S9	19	5	13'-3"	...
S19	8	3	9'-10"	...
T29	12	8	10'-8"	...
T33	17	8	15'-8"	...
V170	12	11	37'-2"	...
W90	17	9	15'-8"	...
W91	12	7	10'-8"	...
PIER II-S.B.				
H27	8	9	16'-8"	...
H28	4	5	16'-8"	...
H7	33	11	7'-4"	...
S2	52	4	12'-6"	...
S9	13	5	13'-3"	...
S19	8	3	9'-10"	...
T30	18	3	9'-8"	...
T32	18	10	9'-8"	...
V46	12	11	23'-2"	...
V31	14	11	22'-3"	...
V32	7	11	15'-4"	...
H34	40	11	24'-8"	...

NOTE "A"
FOR DRAINAGE DETAILS, SEE DWG D-1 AND HIGHWAY PLANS.

NOTES:
ARRANGE COLUMN REINFORCING TO AVOID INTERFERENCE WITH ROD BARS EXTENDING INTO COLUMN.
REFER TO DWGS II FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAIL, SEE DWG S-18.

BILL OF MATERIAL			
ITEM	UNIT	QUANTITY	
CLASS X CONCRETE	CU YD	49.8	937
REINFORCEMENT BARS	POUND	12,353	15,995
CLASS A EXCAVATION FOR STRUCTURES	CU YD	173	250
ROCK EXCAVATION FOR STRUCTURES	CU YD	5	7

PIERS II(N-3) AND II(S.B.)
F.A.I. 74-SECTION 81-HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 285+20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	651
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

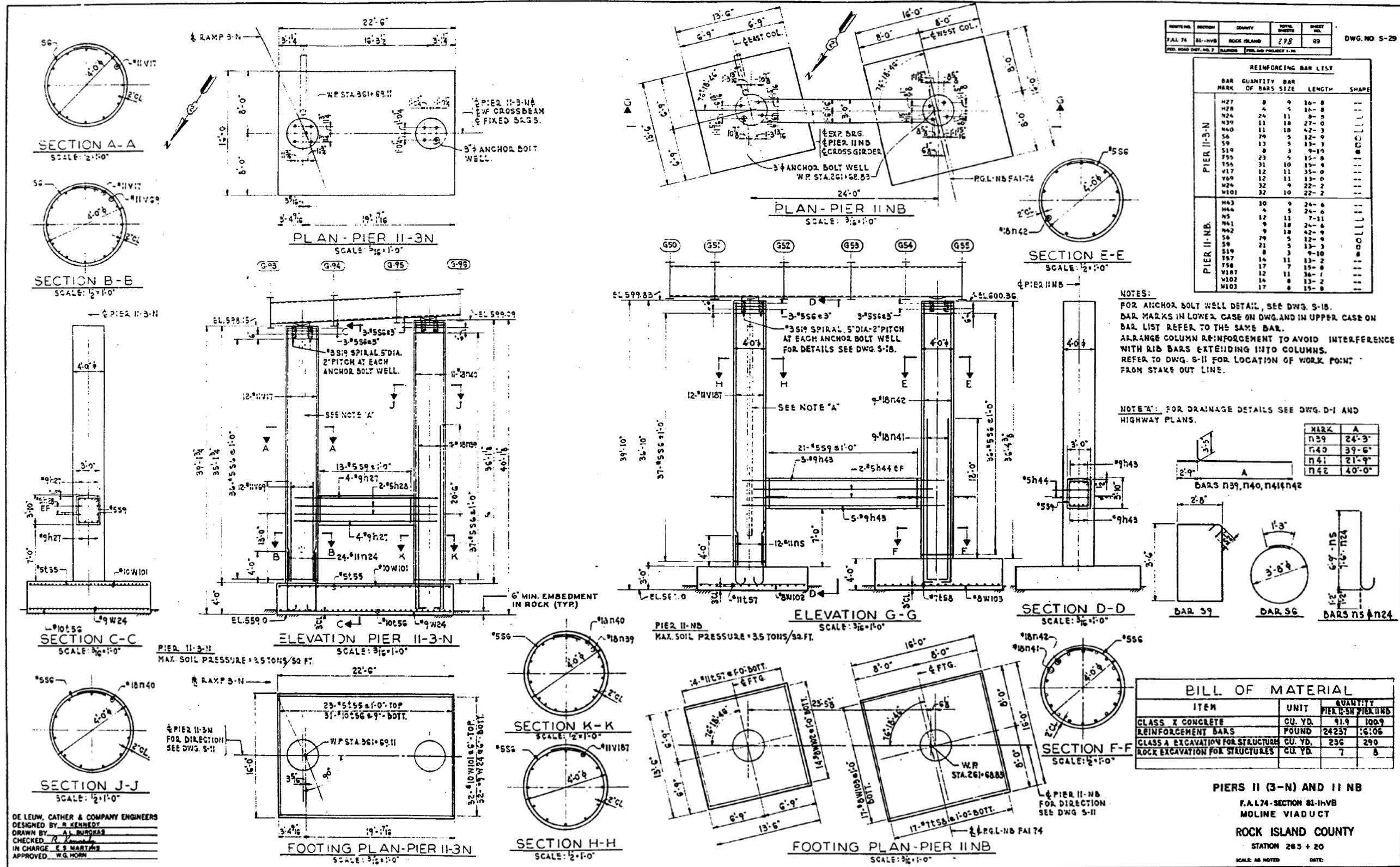
FILE NAME : 0810178-AB321-002-Contract AB Demo-Rasters.brg
MODEL : 23 Contract AB

USER NAME : ksnider
DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
PLOT DATE : 1/18/2017

DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
REVISED :
REVISED :
REVISED :
REVISED :

SHEET NO. SX32 OF SX150 SHEETS

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benesch
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-A0321-002-Contract AB Demo_Rasters.brg	DESIGNED - AWH	REVISED -
MODEL : 24 Contract AB	CHECKED - AJK	REVISED -
	DRAWN - KMS	REVISED -
	CHECKED - AJK	REVISED -

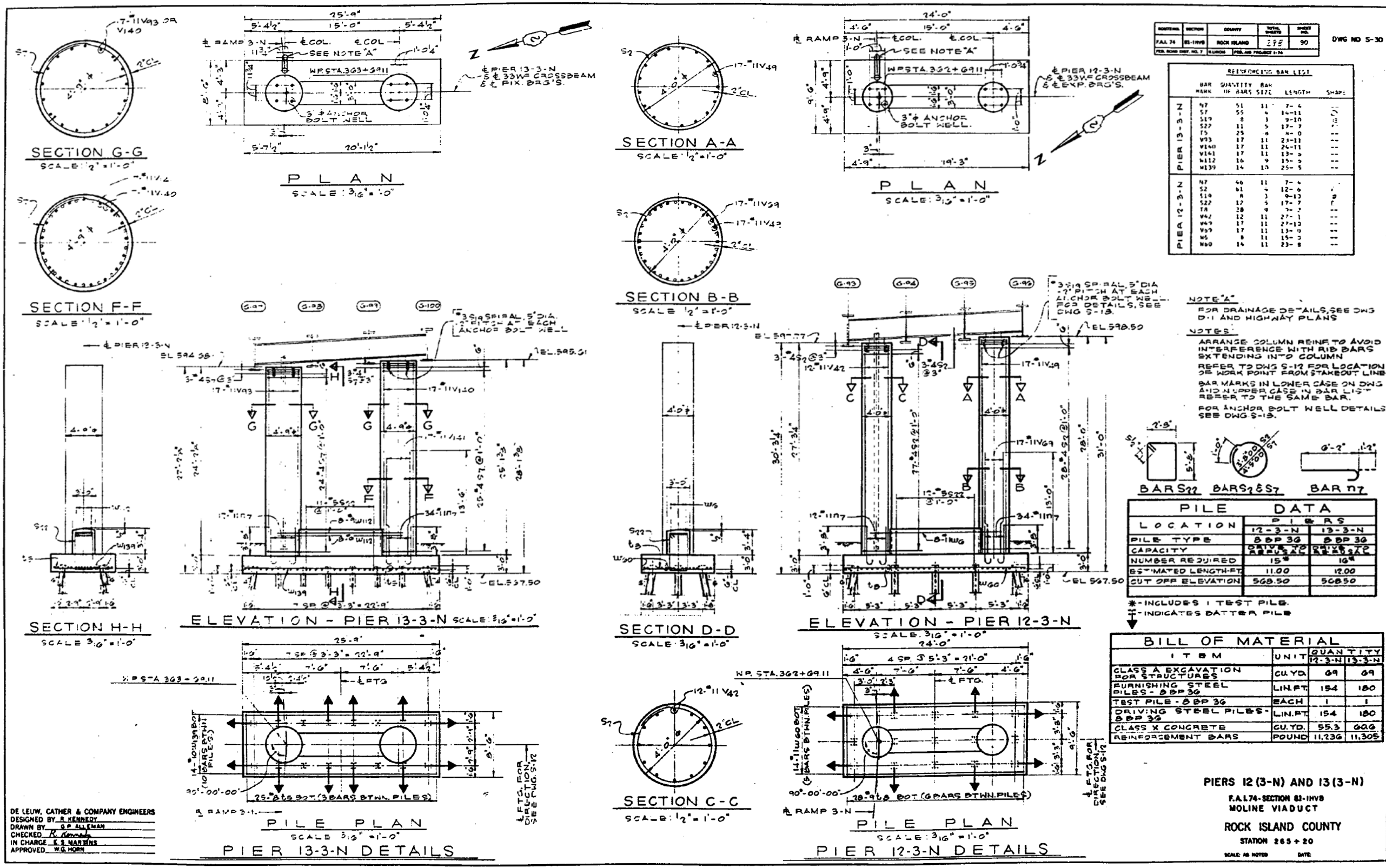
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	652
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

SHEET NO. SX33 OF SX150 SHEETS

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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	ILLINOIS	1504	653

BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
Z	17	11	7'-4"	1
S	17	11	14'-11"	1
A	17	11	17'-7"	1
D	17	11	17'-7"	1
E	17	11	24'-11"	1
F	17	11	24'-11"	1
G	17	11	24'-11"	1
H	17	11	24'-11"	1
I	17	11	24'-11"	1
J	17	11	24'-11"	1
K	17	11	24'-11"	1
L	17	11	24'-11"	1
M	17	11	24'-11"	1
N	17	11	24'-11"	1
O	17	11	24'-11"	1
P	17	11	24'-11"	1
Q	17	11	24'-11"	1
R	17	11	24'-11"	1
S	17	11	24'-11"	1
T	17	11	24'-11"	1
U	17	11	24'-11"	1
V	17	11	24'-11"	1
W	17	11	24'-11"	1
X	17	11	24'-11"	1
Y	17	11	24'-11"	1
Z	17	11	24'-11"	1

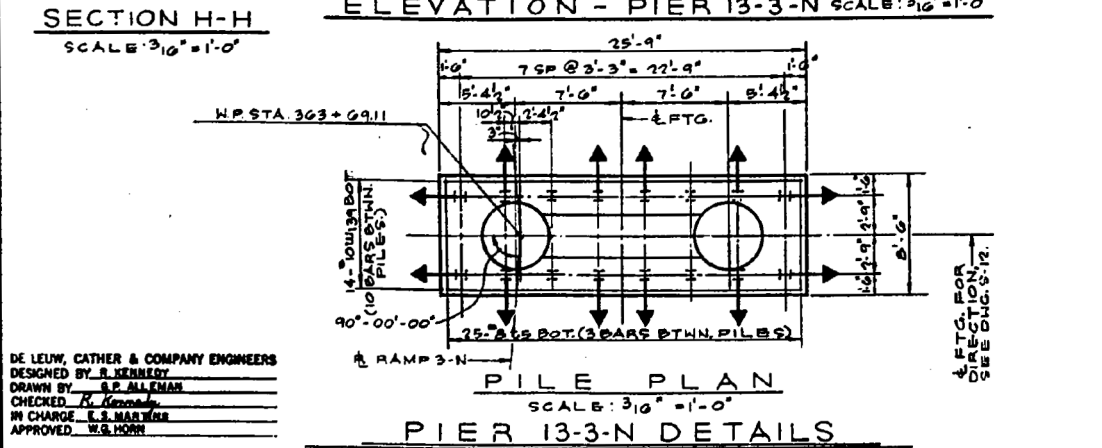
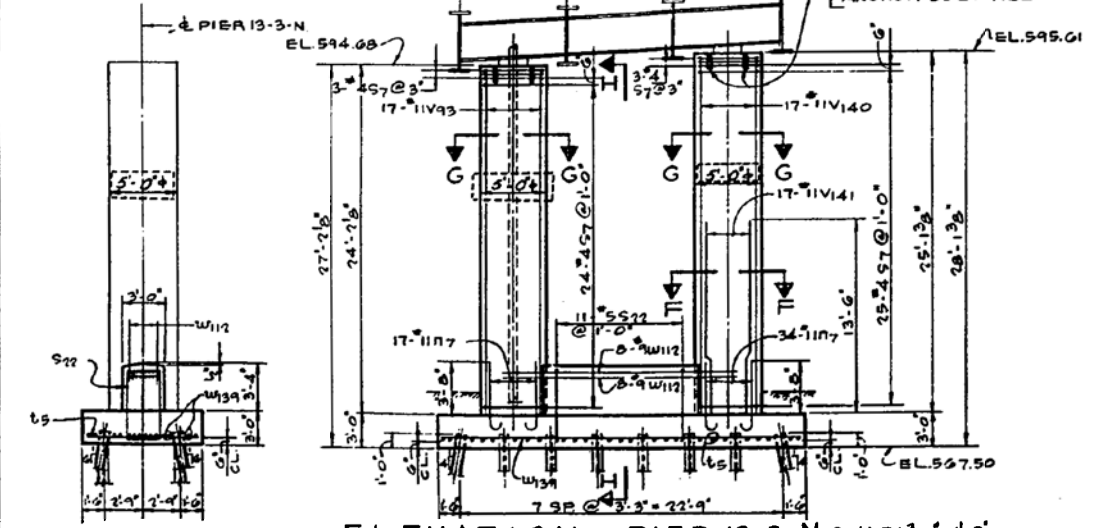
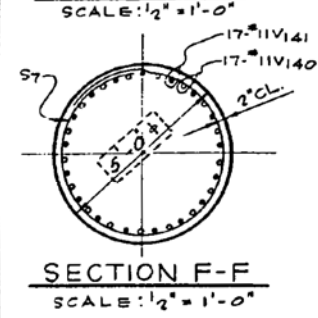
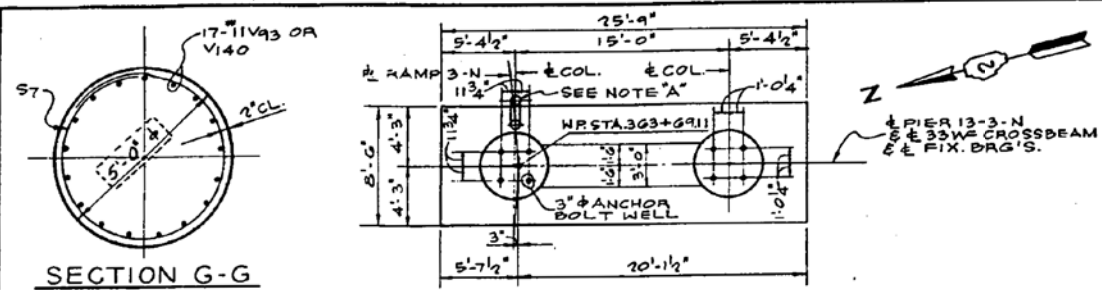
NOTE: A
FOR DRAINAGE DETAILS, SEE DWG D-1 AND HIGHWAY PLANS

NOTES:
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN
REFER TO DWG S-12 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE
BAR MARKS IN LOWER CASE ON DWG AND UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAILS, SEE DWG S-13.

LOCATION	PIERS
12-3-N	13-3-N
PILE TYPE	8" DP 36
CAPACITY	15.00
NUMBER REQUIRED	15
ESTIMATED LENGTH-FT	11.00
CUT OFF ELEVATION	568.50

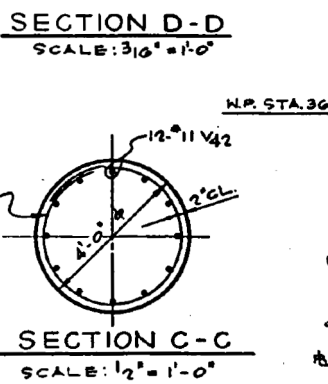
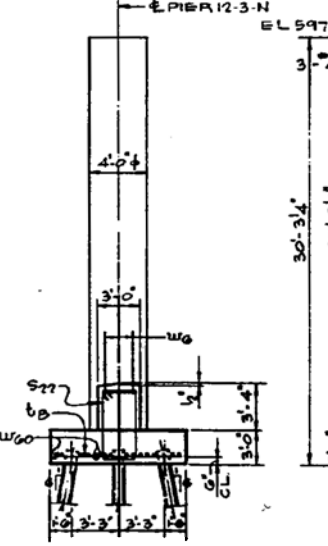
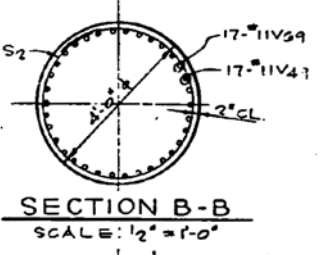
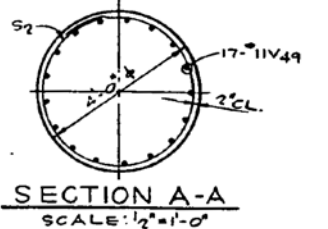
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURES	CUYD	69
FURNISHING STEEL PILES - 8" DP 36	LIN.FT	154
TEST PILE - 8" DP 36	EACH	1
DRIVING STEEL PILES - 8" DP 36	LIN.FT	154
CLASS X CONCRETE	CUYD	55.3
REINFORCEMENT BARS	POUND	11,236

PIERS 12(3-N) AND 13(3-N)
F.A.L. 74, SECTION 81-11V8
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE:

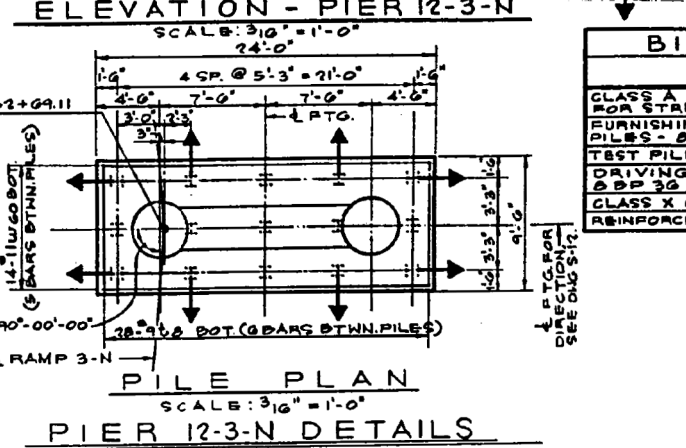
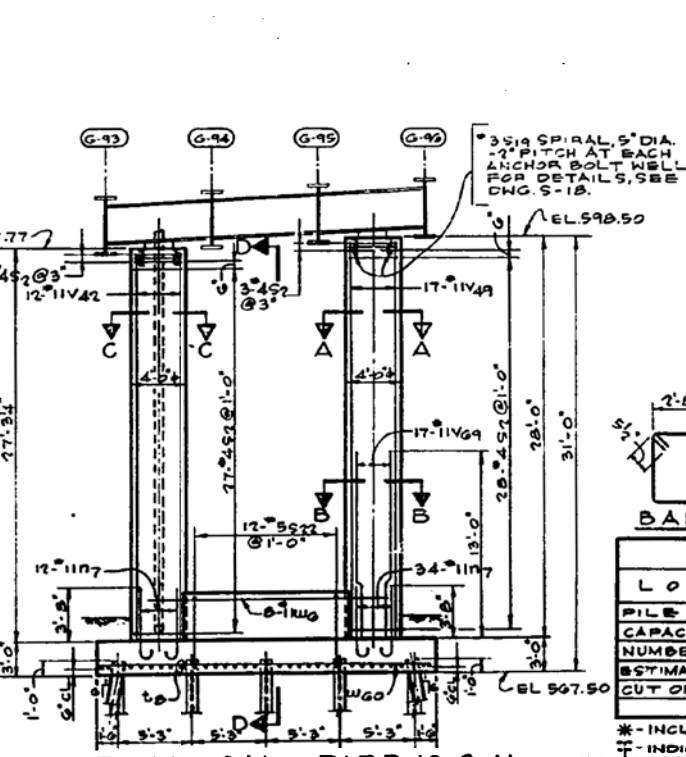
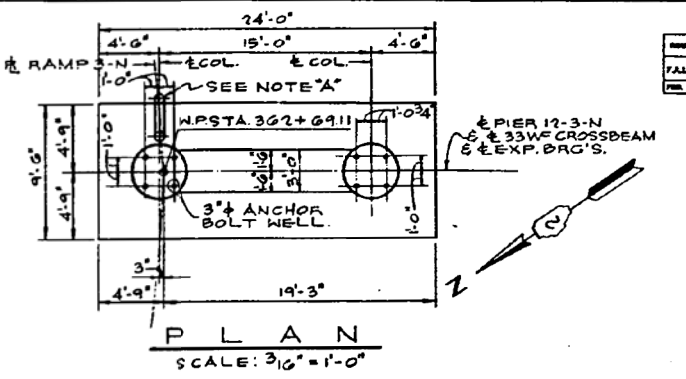


DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY: J. KENNEDY
DRAWN BY: J. KENNEDY
CHECKED: J. KENNEDY
IN CHARGE: J. KENNEDY
APPROVED: J. KENNEDY

Revised [] J.M.J. 7-6-72



SECTION C-C
SCALE: 1/2\"/>



PIER 12-3-N DETAILS

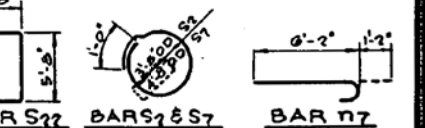
NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVR)	ROCK ISLAND	1504	654

BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
N7	51	11	7'-4"	10#
S7	55	4	15'-0"	10#
S19	8	3	9'-10"	10#
S22	11	5	17'-7"	10#
V3	25	6	8'-0"	10#
V140	17	11	24'-11"	10#
V141	17	11	13'-6"	10#
V112	16	9	15'-6"	10#
V139	14	10	25'-5"	10#

BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
N7	46	11	7'-4"	10#
S2	41	4	12'-6"	10#
S18	8	3	9'-10"	10#
S22	12	5	17'-7"	10#
T8	28	6	9'-2"	10#
V42	12	11	27'-1"	10#
V49	17	11	27'-10"	10#
V49	17	11	13'-9"	10#
V6	8	11	15'-0"	10#
V60	14	11	23'-8"	10#

NOTE A:
FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS

NOTES:
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN.
REFER TO DWG. S-17 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-18.



LOCATION	PIERS
12-3-N	13-3-N
FILE TYPE	8 BP 30
CAPACITY	8 BP 30
NUMBER REQUIRED	15
ESTIMATED LENGTH-FT	11.00
CUT OFF ELEVATION	568.50

*-INCLUDES 1 TEST PILE.
+ INDICATES BATTER PILE

ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURES	CU YD	09
FURNISHING STEEL PILES - 8 BP 30	LN FT	154
TEST PILE - 8 BP 30	EACH	1
DRIVING STEEL PILES - 8 BP 30	LN FT	154
CLASS X CONCRETE	CU YD	55.3
REINFORCEMENT BARS	POUND	11,236

PIERS 12 (3-N) AND 13 (3-N)
F.A.L. 74-SECTION 81-1HVR
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE:



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME: 0810178-A0321-002-Contract AB Demo-Rasters.brg	USER NAME: ksnider	DESIGNED: AWH	REVISED: -
MODEL: 26 Contract AB	PLOT SCALE: -	CHECKED: AJK	REVISED: -
	PLOT DATE: 1/18/2017	DRAWN: KMS	REVISED: -
		CHECKED: AJK	REVISED: -

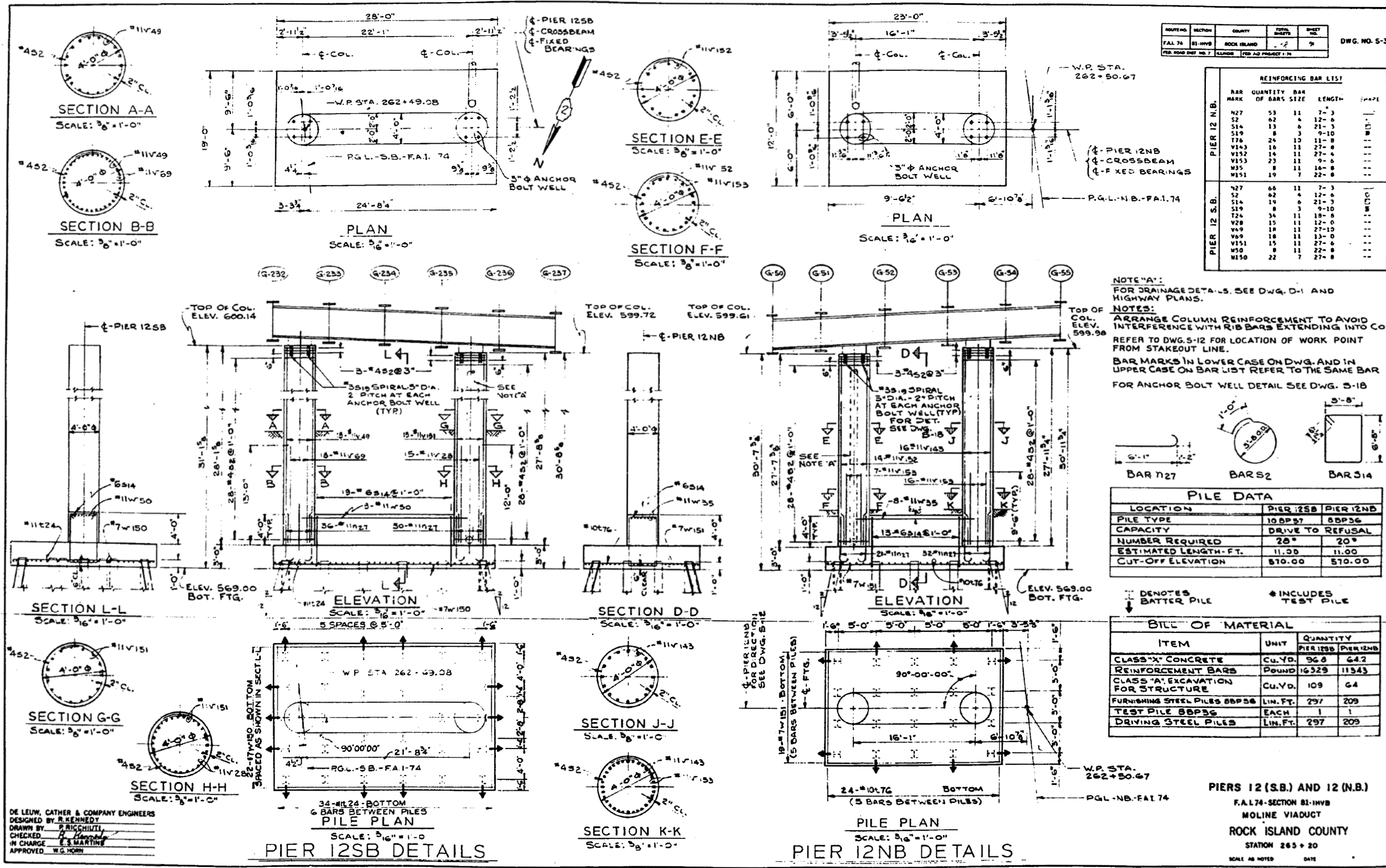
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX35 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVR)	ROCK ISLAND	1504	654
				CONTRACT NO. 64C08

ILLINOIS FED. AID PROJECT



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 74	81-HVB	ROCK ISLAND	2	9
DWG. NO. S-31				

REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
PIER 12 N.B.				
N27	53	11	7'-3"	
S2	62	6	12'-6"	
S14	19	6	21'-3"	
S19	8	3	9'-10"	
T24	34	11	18'-8"	
V28	15	11	12'-6"	
V49	18	11	27'-10"	
V69	18	11	13'-0"	
V151	15	11	27'-6"	
M50	8	11	22'-8"	
M150	22	7	27'-8"	
PIER 12 S.B.				
N27	66	11	7'-3"	
S2	62	6	12'-6"	
S14	19	6	21'-3"	
S19	8	3	9'-10"	
T24	34	11	18'-8"	
V28	15	11	12'-6"	
V49	18	11	27'-10"	
V69	18	11	13'-0"	
V151	15	11	27'-6"	
M50	8	11	22'-8"	
M150	22	7	27'-8"	

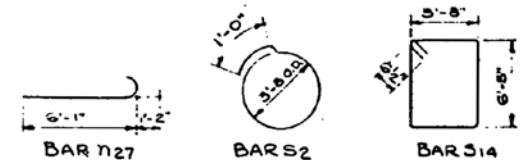
NOTE "A": FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.

NOTES:

ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COL.

REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.

BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR FOR ANCHOR BOLT WELL DETAIL SEE DWG. S-18



PILE DATA		
LOCATION	PIER 12SB	PIER 12NB
PILE TYPE	10BP37	8BP36
CAPACITY	DRIVE TO REFUSAL	DRIVE TO REFUSAL
NUMBER REQUIRED	28	20
ESTIMATED LENGTH-FT.	11.00	11.00
CUT-OFF ELEVATION	570.00	570.00

↓ DENOTES BATTER PILE * INCLUDES TEST PILE

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	Cu. Yd.	96.8
REINFORCEMENT BARS	POUND	16329
CLASS "A" EXCAVATION FOR STRUCTURE	Cu. Yd.	109
FURNISHING STEEL PILES 8BP36	Lin. Ft.	297
TEST PILE 8BP36	EACH	1
DRIVING STEEL PILES	Lin. Ft.	297

PIERS 12 (S.B.) AND 12 (N.B.)
F.A.L. 74-SECTION 81-HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE AS NOTED DATE

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg	USER NAME : ksnider	DESIGNED : AWH	REVISED :
		CHECKED : AJK	REVISED :
MODEL : 27 Contract AB	PLOT SCALE :	DRAWN : KMS	REVISED :
	PLOT DATE : 1/18/2017	CHECKED : AJK	REVISED :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

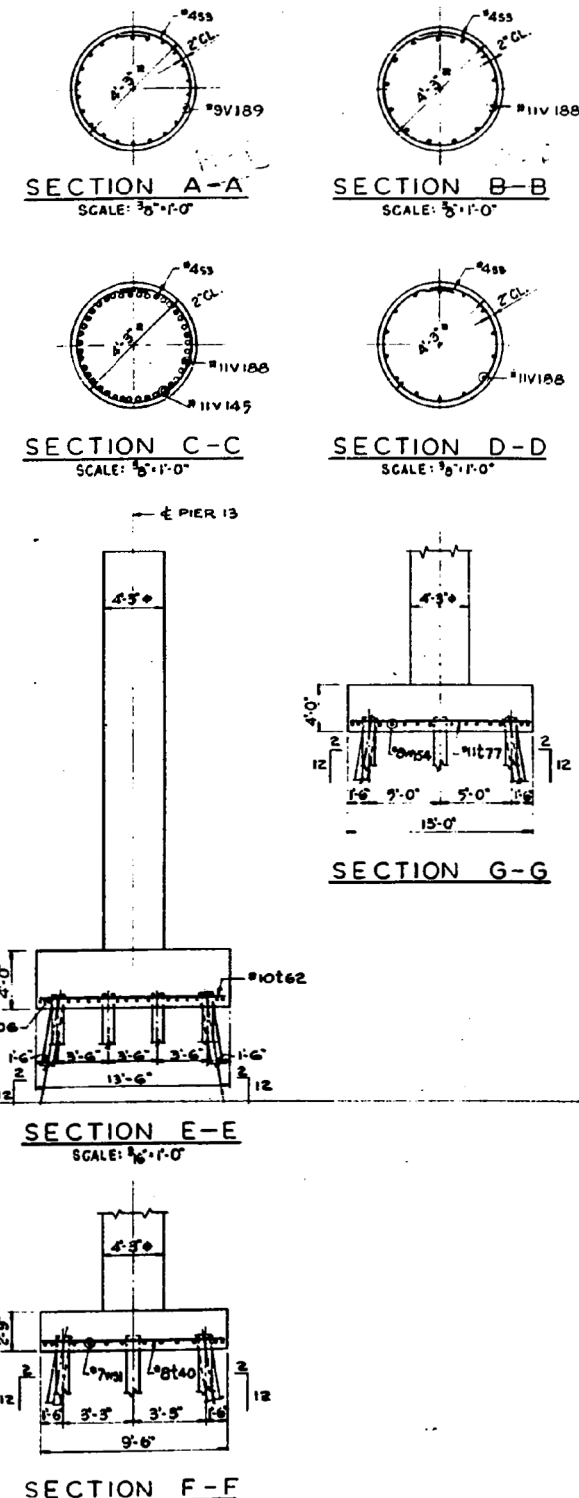
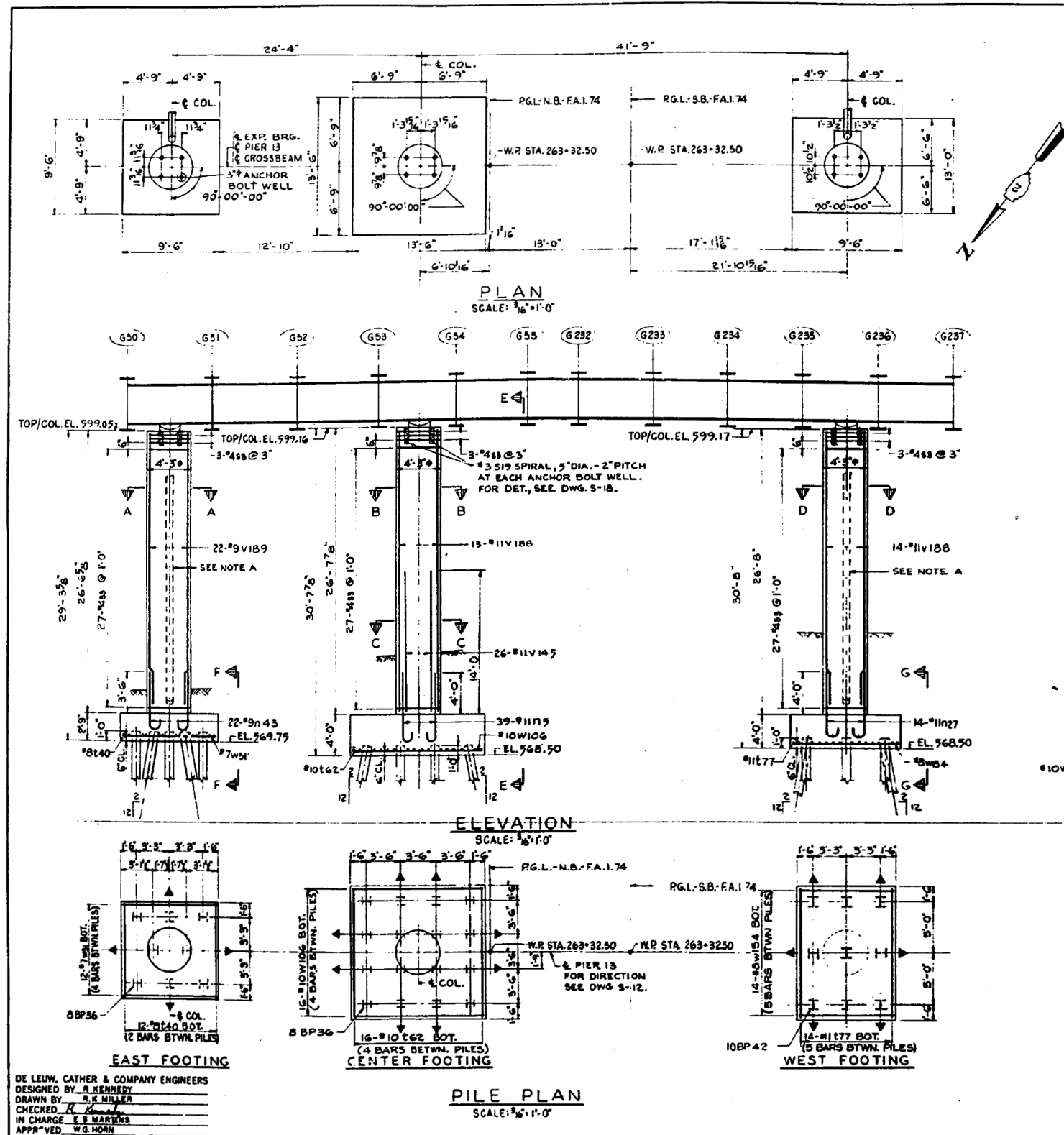
SHEET NO. SX36 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVB)	ROCK ISLAND	1504	655
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

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1/18/2017



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I.A. 74	88-1HYB	ROCK ISLAND	278	92
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-32

REINFORCING BAR LIST				
BAR MARK	QUANTITY OF BARS SIZE	BAR SIZE	LENGTH	SHAPE
N5	39	11	7-11	
N27	14	11	7-3	
N43	22	9	8-4	
S3	12	4	13-4	
S19	22	3	9-10	
T40	12	8	9-2	
T62	16	10	13-2	
T77	14	11	12-8	
V145	26	11	14-0	
V180	27	11	26-6	
V189	22	9	26-4	
W5	12	7	9-2	
W106	16	10	13-2	
W154	14	8	9-2	

NOTE "A"
FOR DRAINAGE DETAILS, SEE DWG. D-1 & HIGHWAY PLANS.

NOTES:
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN.
REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-18.

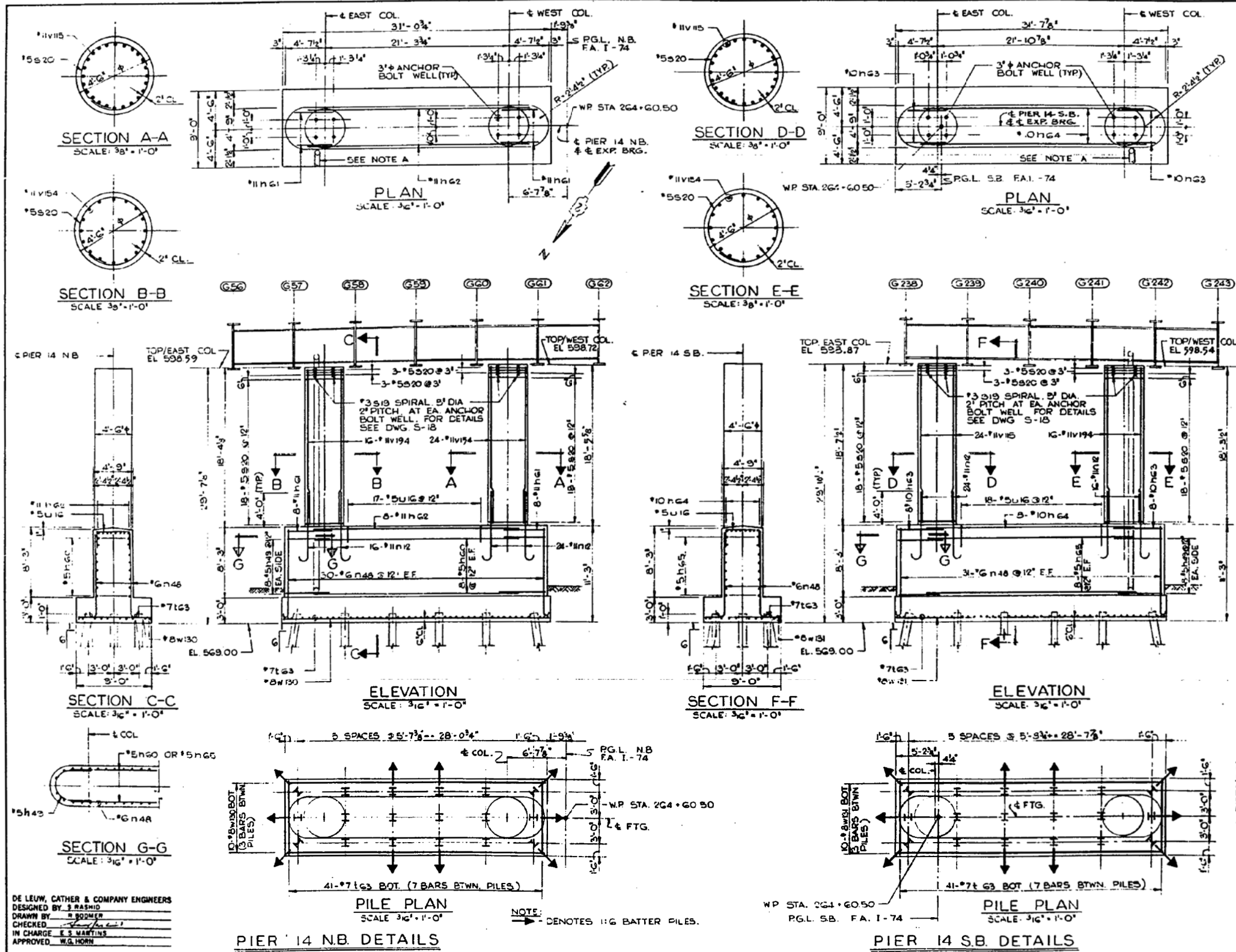
n	A	B
5	6'-9"	1'-2"
27	6'-1'	1'-2"
43	5'-1'	1'-3"

BARS n5,n27 & n43 BAR S3

PILE DATA			
LOCATION	FOOTING		
	EAST	CENTER	WEST
PILE TYPE	SBP36	SBP36	IOBP42
CAPACITY	DRIVE TO REFUSAL		
NUMBER REQUIRED	8	16	9
ESTIMATED LENGTH-FT.	12	11	10
CUT OFF ELEVATION	570.75	569.50	569.50

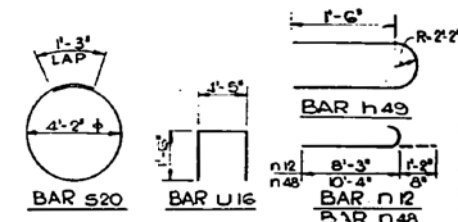
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "A" EXCAVATION FOR STRUCTURE	CU. YD.	125
REINFORCEMENT BARS	POUND	14,821
CLASS "X" CONCRETE	CU. YD.	96.3
FURNISHING STEEL PILES-8BP36	LIN. FT.	261
TEST PILE-8BP36	EACH	1
DRIVING STEEL PILES-8BP36	LIN. FT.	261
FURNISHING STEEL PILES-10BP42	LIN. FT.	90
DRIVING STEEL PILES-10BP42	LIN. FT.	90

PIER 13
F.A.L74-SECTION 81-IHVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE:



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	81-1HVB	ROCK ISLAND	222	93
PER ROAD DIST. NO. 7	ALPHABET	PER. A.D. PROJECT 1-74		

REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
PIER 14 N.B.				
H49	16	5	9-10	
H59	16	5	25-10	
H61	16	11	9-10	
H62	8	11	25-10	
H63	40	11	9-5	
H64	40	6	11-5	
S19	8	3	9-10	
S20	42	5	14-3	
U16	41	7	9-5	
V154	24	11	14-2	
V198	16	11	14-0	
V114	10	8	10-2	
V110	10	8	10-7	
PIER 14 S.B.				
H49	16	5	9-10	
H63	16	10	3-6	
H64	8	10	26-3	
H65	16	5	26-3	
H12	40	11	9-5	
H41	42	6	11-0	
S19	8	3	9-10	
S20	42	5	14-3	
T63	41	7	9-8	
U16	18	5	7-5	
V115	24	11	18-4	
V198	16	11	18-0	
V110	10	8	31-0	



PILE DATA		
LOCATION	14 N.B.	14 S.B.
PILE TYPE	O BP 57	O BP 57
CAPACITY	DRIVE TO REFUSAL	DRIVE TO REFUSAL
NUMBER REQUIRED	18	18
ESTIMATED LENGTH - FT.	120	120
CUT OFF ELEVATION	5700	5700

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURES	CU YD	80
CLASS X CONCRETE	CU YD	95.9
REINFORCEMENT BARS	POUND	11,161
FURNISHING STEEL PILES (O BP 57)	LIN. FT.	204
DRIVING STEEL PILES	LIN. FT.	204
TEST STEEL PILES (O BP 57)	EACH	1

NOTE A: FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.
 NOTES:
 REFER TO DWG. S-12 FOR LOCATION OF WORK POINTS FROM STAKE OUT LINE.
 BAR MARKS INDICATED N48 ETC REFER TO MARK N48 ETC IN THE REINFORCING BAR LIST.
 ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH WALL BARS.

PIERS 14 (N.B.) AND 14 (S.B.)
 F.A.I. 74-SECTION 81-1HVB
 MOLINE VIADUCT
 ROCK ISLAND COUNTY
 STATION 265 + 20
 SCALE: AS NOTED DATE:

benesch
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME: 0810178-A0321-002-Contract AB Demo-Rasters.brg	DESIGNED - AWH	REVISED -
USER NAME: ksnider	CHECKED - AJK	REVISED -
MODEL: 29 Contract AB	DRAWN - KMS	REVISED -
	CHECKED - AJK	REVISED -

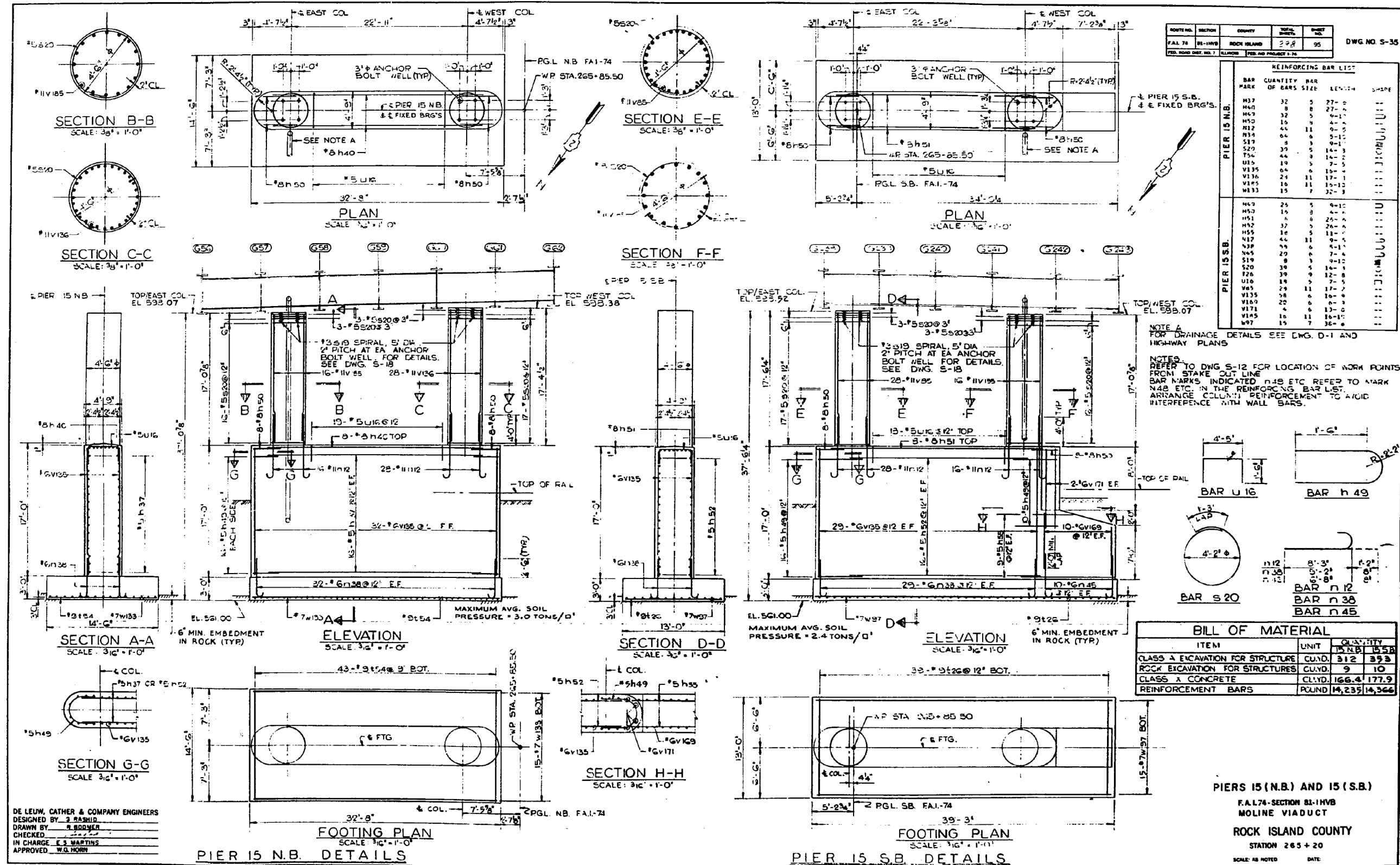
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX38 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	657
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

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benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
0810178-AB321-002-Contract AB Demo.Rasters.brg
MODEL:
31 Contract AB

USER NAME : ksnider
DESIGNED - AWH
CHECKED - AJK
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK

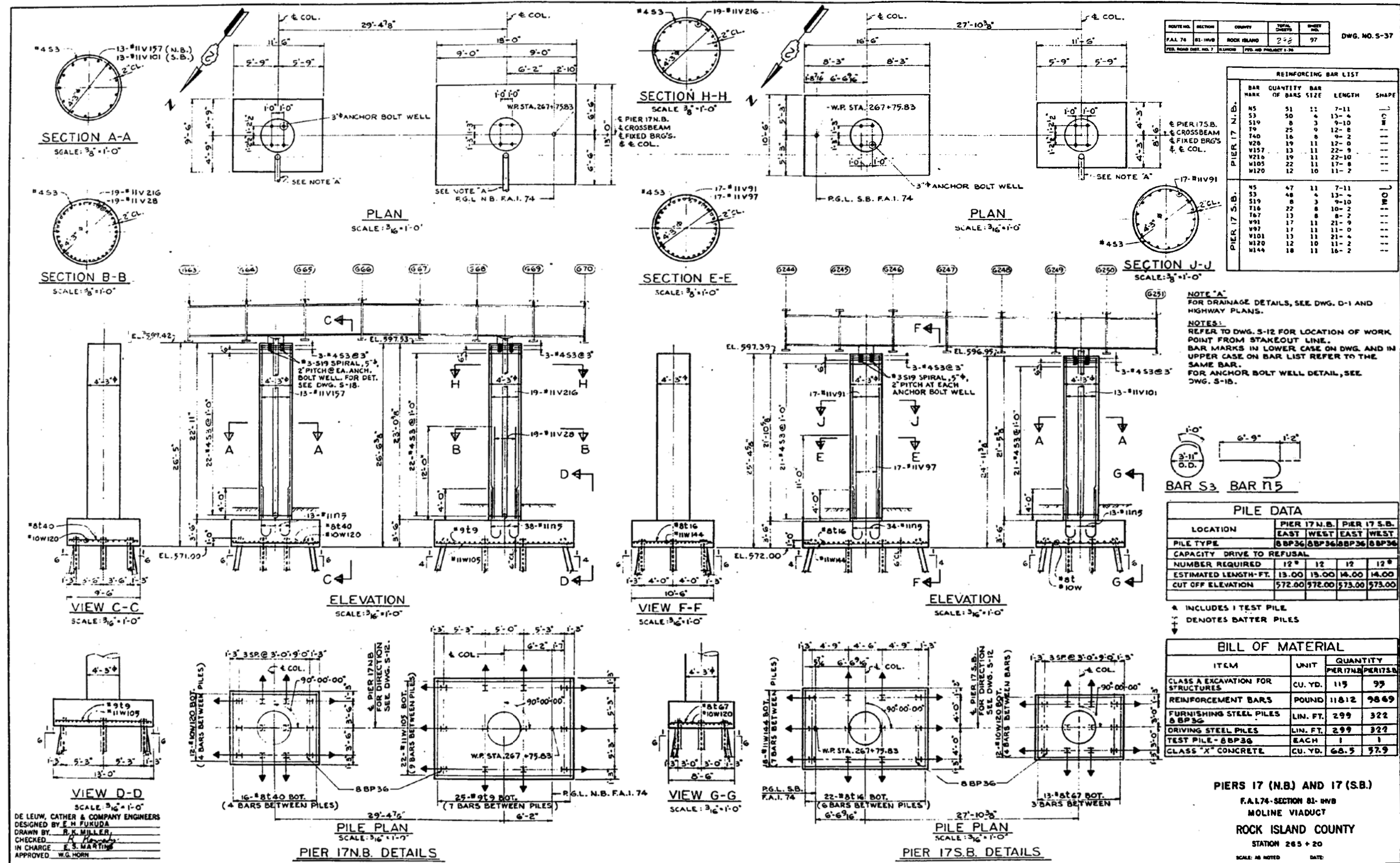
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX40 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVB)	ROCK ISLAND	1504	659
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



benesch
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-AB0321-002-Contract AB Demo-Rasters.brg
 MODEL : 33 Contract AB

USER NAME : ksnider
 DESIGNED - AWH
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK
 PLOT DATE : 1/18/2017

DESIGNED - AWH
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK
 REVISED -
 REVISED -
 REVISED -
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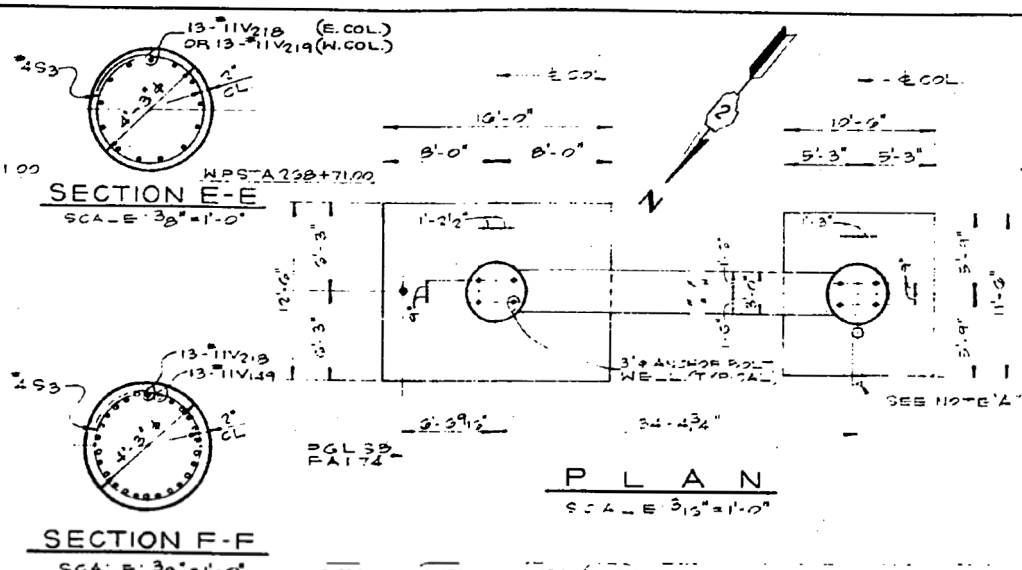
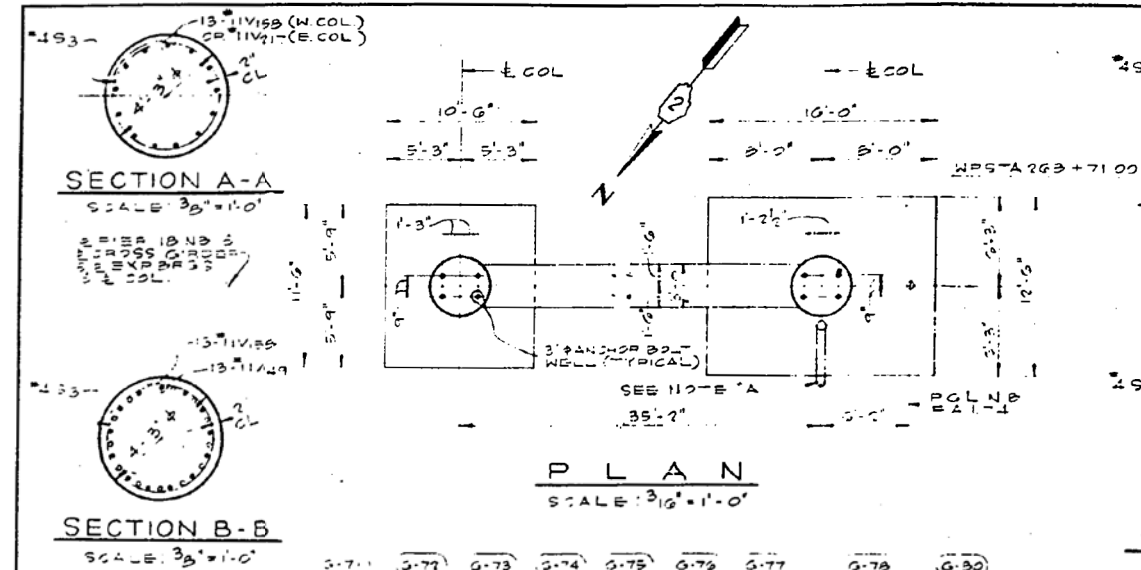
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX42 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVR	ROCK ISLAND	1504	661
CONTRACT NO. 64C08				

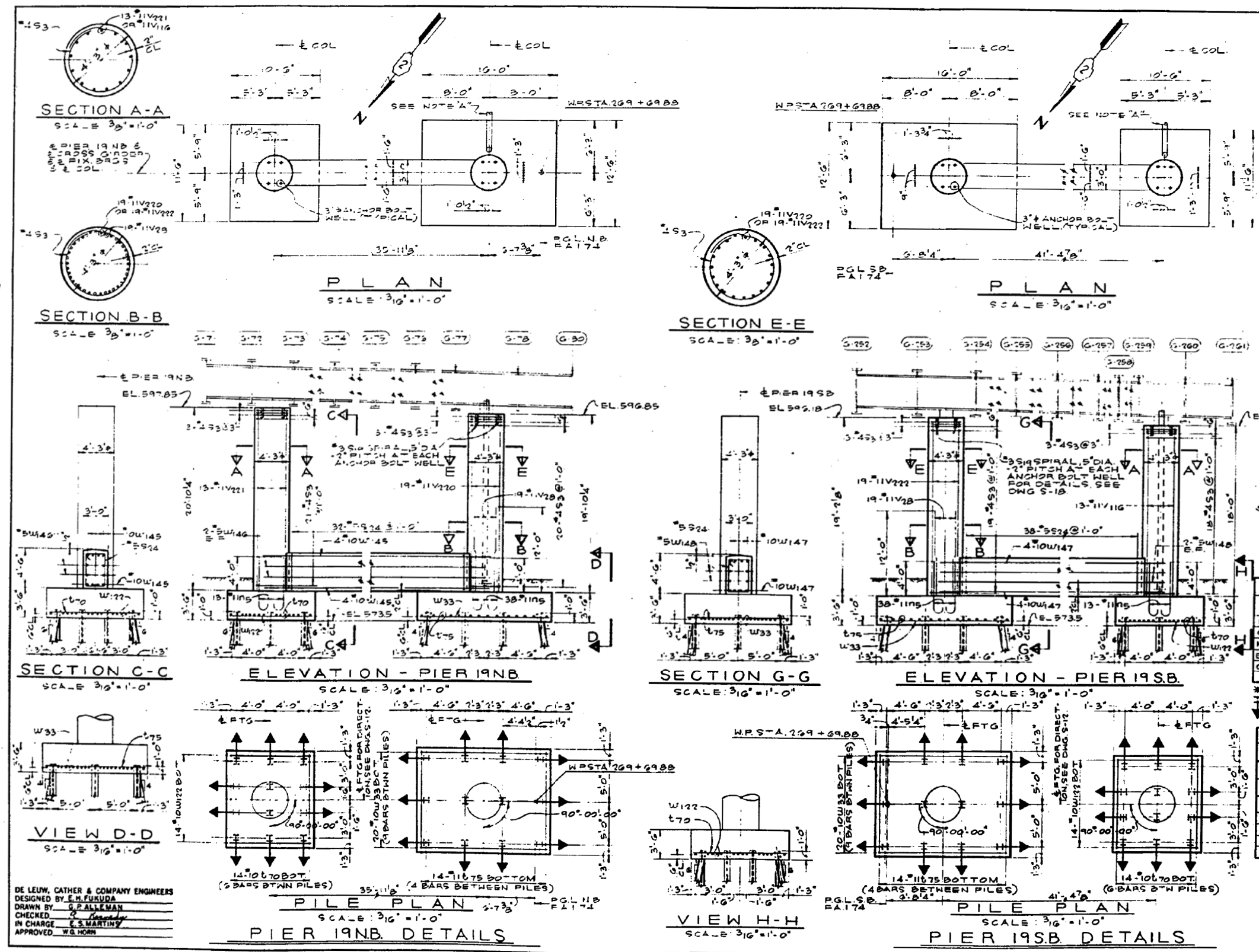
ILLINOIS FED. AID PROJECT



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	81-11VBR	ROCK ISLAND	228	98

DWG. NO. S-38

COUNCIL OF THE DISTRICT					
BAR	MARK	48"	60"	72"	84"
D I S T R I C T	N5	39	11	7-11	..
	N3	47	8	13-4	..
	N19	8	3	14-7	..
	N24	31	8	14-7	..
	N45	20	7	12-7	..
	N70	14	10	11-8	..
D I S T R I C T	V149	13	11	15-8	..
	V158	13	11	20-10	..
	N217	13	13	21-8	..
	N220	70	8	22-8	..
	N222	12	13	12-8	..
	N223	8	7	35-8	..
D I S T R I C T	N226	8	7	35-8	..
	N5	39	11	7-11	..
	N3	47	8	13-4	..
	N19	8	3	14-7	..
	N24	31	8	14-7	..
	N45	20	7	12-7	..
D I S T R I C T	N70	14	10	11-8	..
	V149	13	11	15-8	..
	N218	13	11	22-8	..
	N219	15	11	14-11	..
	N221	20	16	13-8	..
	N225	12	10	10-7	..
D I S T R I C T	N226	8	7	35-8	..
	N236	8	8	35-8	..



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	81-1NB	ROCK ISLAND	298	99
FED. ROAD DIST. NO. 7				
ILLINOIS				

REINFORCING BAR LIST					
BAR	QUANTITY	BAR SIZE	LENGTH	SHAPE	
N5	51	11	7-11		
S3	47	4	17-4		
S10	4	5	14-12		
S24	32	5	14-7		
T70	14	10	21-7		
T75	14	11	12-2		
V220	19	11	17-0		
V221	13	11	29-9		
W33	20	10	15-2		
W122	14	17	15-2		
W145	8	13	30-0		
W146	4	5	36-0		

NOTE A
FOR DRAINAGE DETAILS, SEE DWG. D-1, D-2 AND HIGHWAY PLANS.

NOTES:
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH REINFORCING BARS EXTENDING INTO COLUMN.
REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM TAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-18.

PILE DATA			
LOCATION	PIER 19NB	PIER 19SB	
PILE TYPE	EAST WEST	EAST WEST	
CAPACITY	100P47	100P47	
NUMBER REQUIRED	12*	12*	
ESTIMATED LENGTH-FT	200	200	
CUT OFF ELEVATION	5745	5745	

BILL OF MATERIAL			
ITEM	UNIT	19NB	19SB
CLASS A EXCAVATION FOR STRUCTURES	CU.YD	116	123
REINFORCING BARS	POUND	12,032	12,983
BURNISHING STEEL PILES 100P47	LINE FT	440	440
DRIVING STEEL PILES	LINE FT	440	440
TEST PILE 100P47	EACH	2	2
CLASS X CONCRETE	CU.YD	79.1	80.0

PIERS 19 (N.B.) AND 19 (S.B.)
F.A.L. 74-SECTION 81-1NB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE AS NOTED DATE

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg	USER NAME : ksnider	DESIGNED - AWH	REVISED -
MODEL : 35 Contract AB	PLOT SCALE :	CHECKED - AJK	REVISED -
	PLOT DATE : 1/18/2017	DRAWN - KMS	REVISED -
		CHECKED - AJK	REVISED -

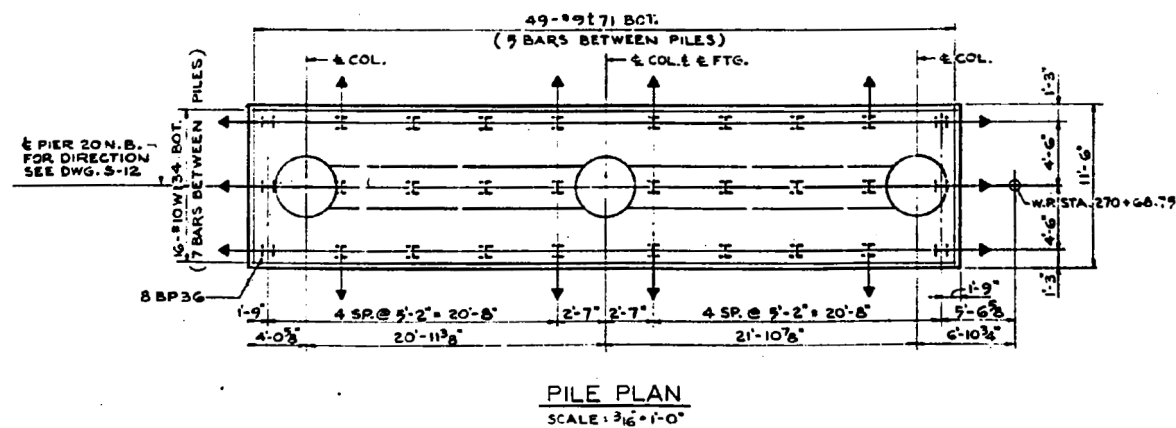
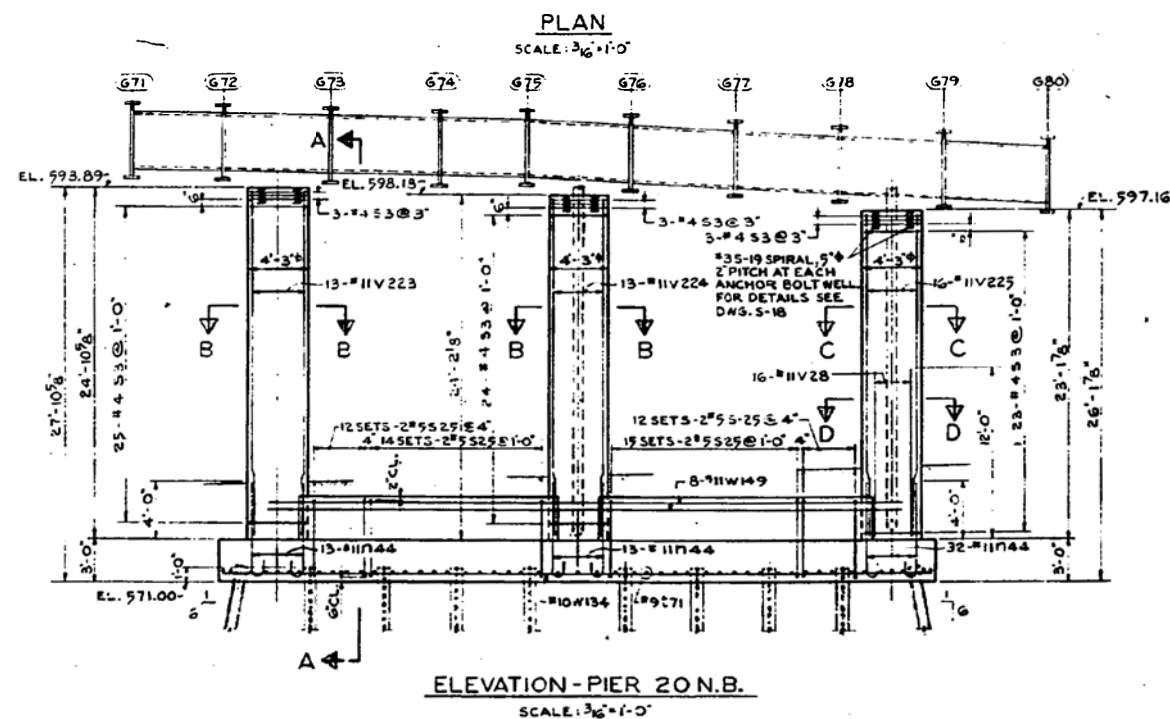
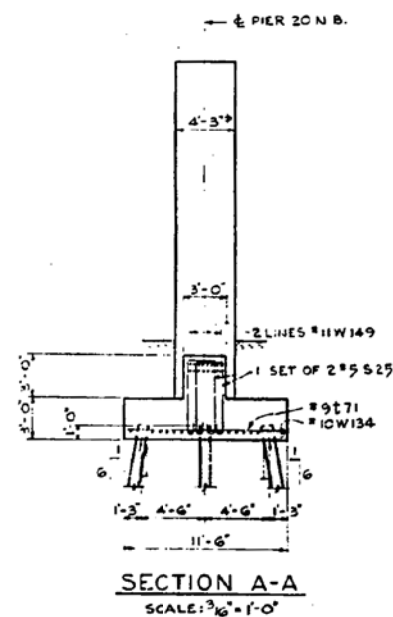
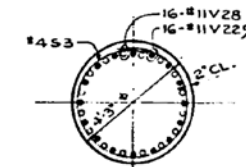
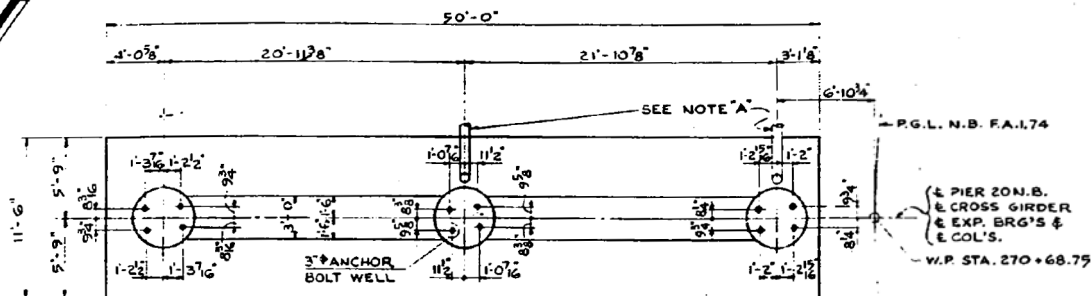
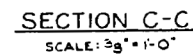
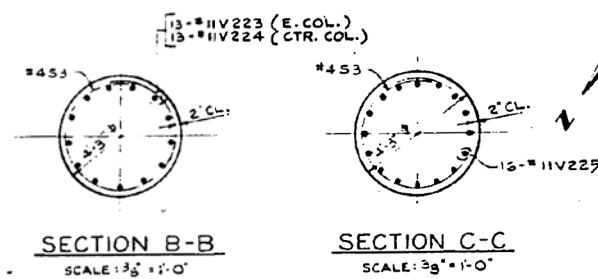
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY**

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVR	ROCK ISLAND	1504	663
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

SHEET NO. SX44 OF SX150 SHEETS

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 76	BT-11VB	ROCK ISLAND	242	100
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-76		

DWG. NO. S-40

REINFORCING BAR LIST				
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
N44	80	11	7'-0"	○
S3	51	14	13'-6"	○
S19	12	3	9'-12"	○
S25	106	5	13'-12"	○
T71	49	9	11'-2"	○
V20	16	11	12'-0"	○
V223	13	11	24'-0"	○
V224	13	11	24'-0"	○
V225	16	11	23'-0"	○
M134	16	10	4'-0"	○
M149	16	11	6'-6"	○

NOTE "A"
FOR DRAINAGE DETAILS, SEE DWG. D-1 AND
HIGHWAY PLANS.

NOTES:
ARRANGE COLUMN REINF. TO AVOID INTERFERENCE
WITH BARS EXTENDING INTO COLUMN.
REFER TO DWG. 5-12 FOR LOCATION OF WORK POINT
FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG'S AND UPPER
CASE ON BAR LIST REFER TO THE SAME BAR.
FOR ANCHOR BOLT WELL DETAIL, SEE DWG 5-18.

PILE DATA	
PILE TYPE	SSP26
CAPACITY	DRIVE TO REFUSAL
NUMBER REQUIRED	30*
ESTIMATED LENGTH-FT.	19.00
CUT OFF ELEVATION	572.00

* INCLUDES 1 TEST PILE
+ DENOTES BATTER PILES

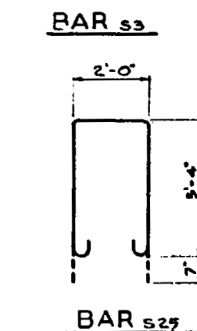
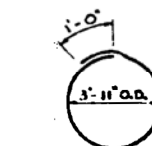
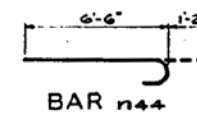
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	233
FURNISHING STEEL PILES 8BP36	LIN. FT.	551
DRIVING STEEL PILES	LIN. FT.	551
TEST PILE - 8BP36	EACH	1
CLASS "X" CONCRETE	CU. YD.	113.7
REINFORCEMENT BARS	POUND	20057

PIER 20 (N.B.)

F.A.L 74-SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY
STATION 265 + 20

SCALE AS NOTED DATE:



DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY E. H. FURUDA
DRAWN BY R. H. MILLER
CHECKED Barclay W. Kennedy
IN CHARGE E. S. MARTINS
APPROVED W. G. HORN

FOR INFORMATION ONLY

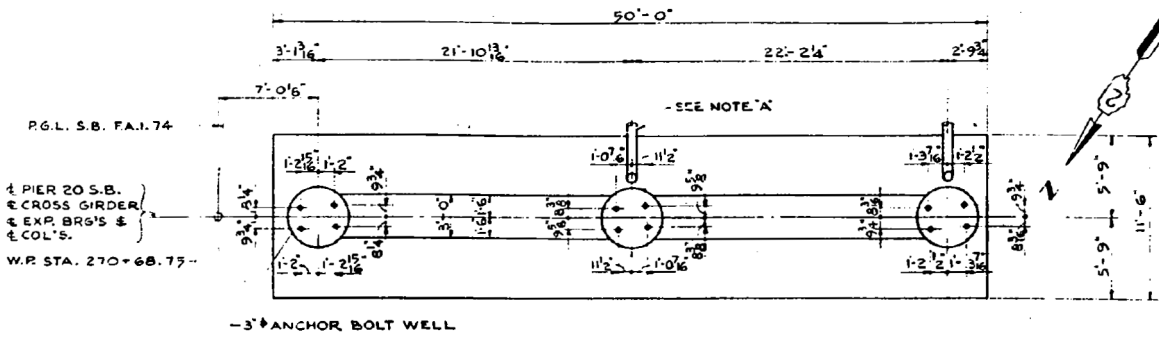
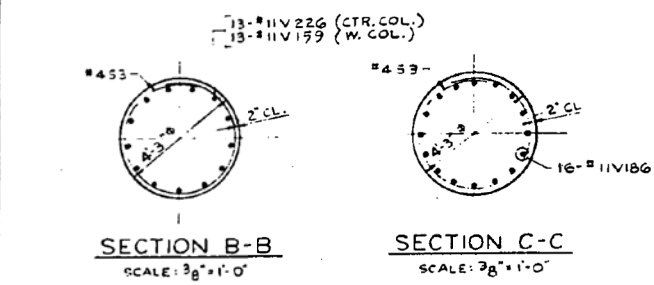
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

SHEET NO. SX45 OF SX150 SHEETS

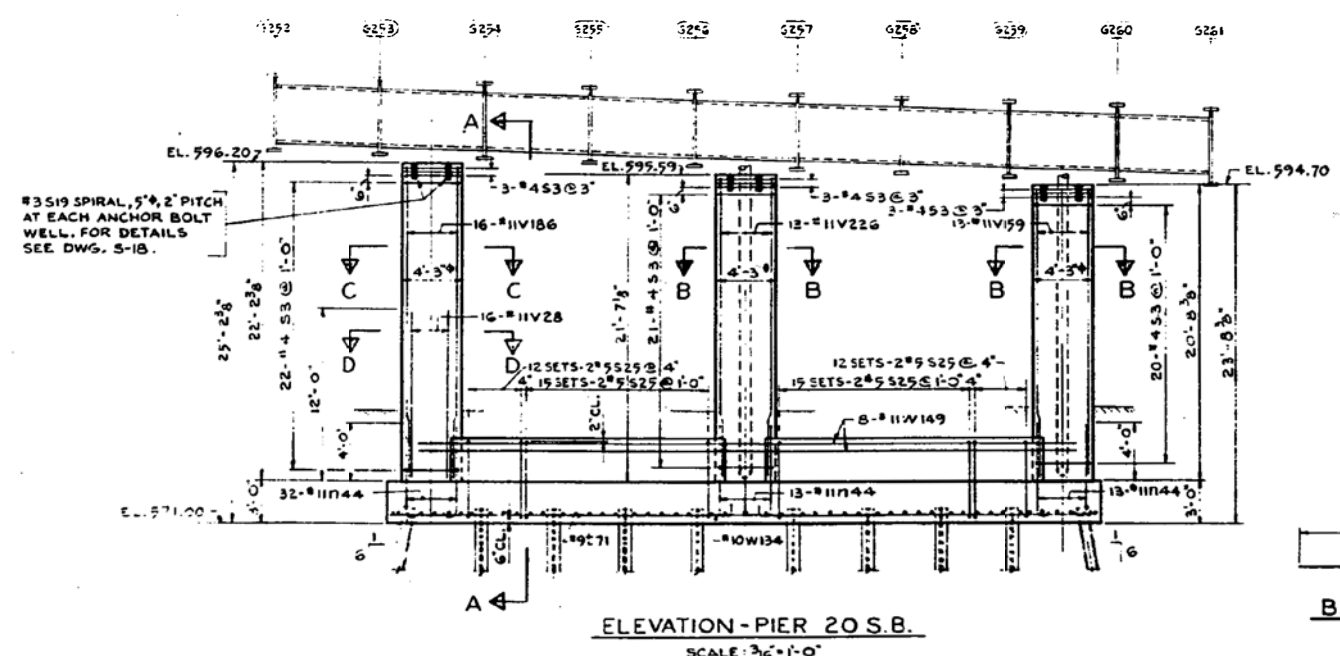
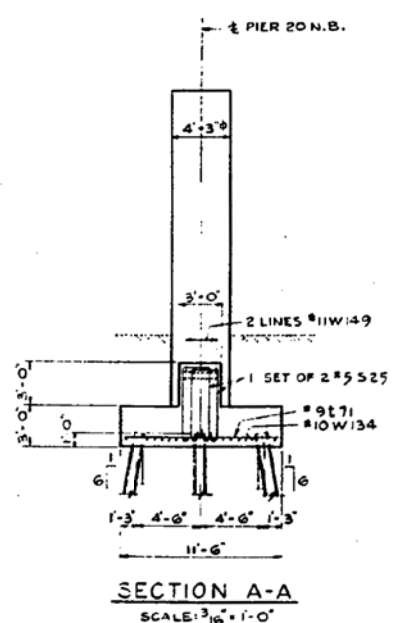
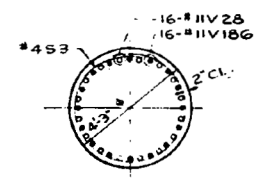
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	664
		CONTRACT NO. 64C08		
ILLINOIS		FED. AID PROJECT		

ILLINOIS	FED. AID PROJECT
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 74	81-1HVB	ROCK ISLAND	1504	665
FED. ROAD DIST. NO. 1	ALABAMA	FED. AID PROJECT 1-34		

BAR	QUANTITY	WSP	LENGTH	WEIGHT
#4	54	11	7'-4"	---
#5	72	4	11'-4"	---
#6	12	3	9'-10"	---
#7	104	5	13'-10"	---
#8	43	9	11'-2"	---
#9	15	11	12'-7"	---
#10	13	11	20'-7"	---
#11	15	11	22'-0"	---
#12	13	11	21'-5"	---
#13	15	10	44'-4"	---
#14	15	11	44'-4"	---



NOTE "A"
FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.

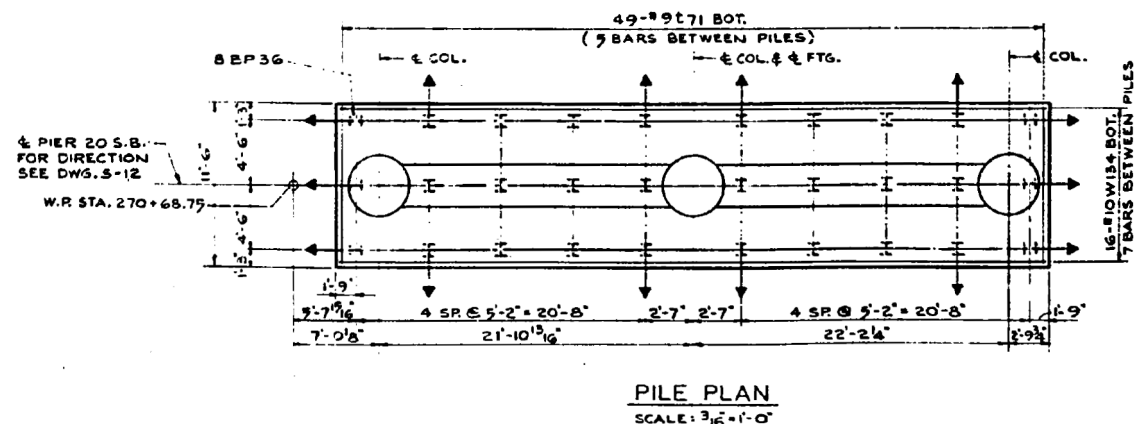
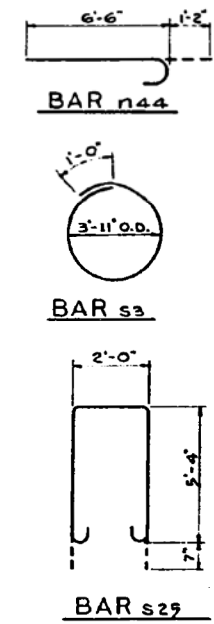
NOTES:
ARRANGE COLUMN REINF. TO AVOID INTERFERENCE WITH BARS EXTENDING INTO COLUMN. REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG'S AND UPPER CASE ON BAR LIST REFER TO THE SAME BAR. FOR ANCHOR BOLT WELL DETAIL, SEE DWG S-15.

PILE DATA	
PILE TYPE	BBP 36
CAPACITY	DRIVE TO REFUSAL
NUMBER REQUIRED	30*
ESTIMATED LENGTH FT.	19.00
CUT OFF ELEVATION	572.00

* INCLUDES 1 TEST PILE
↑↑ DENOTES BATTER PILES

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	248
FURNISHING STEEL PILES BBP 36	LIN. FT.	551
DRIVING STEEL PILES	LIN. FT.	551
TEST PILE - BBP 36	EACH	1
CLASS "A" CONCRETE	CU. YD.	110.0
REINFORCEMENT BARS	POUND	19460

PIER 20 (S.B.)
FAL 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE



DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY: E. H. FUKUDA
DRAWN BY: R. K. MILLER
CHECKED BY: R. K. MILLER
IN CHARGE: E. J. MARTINE
APPROVED: W. G. HORN



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

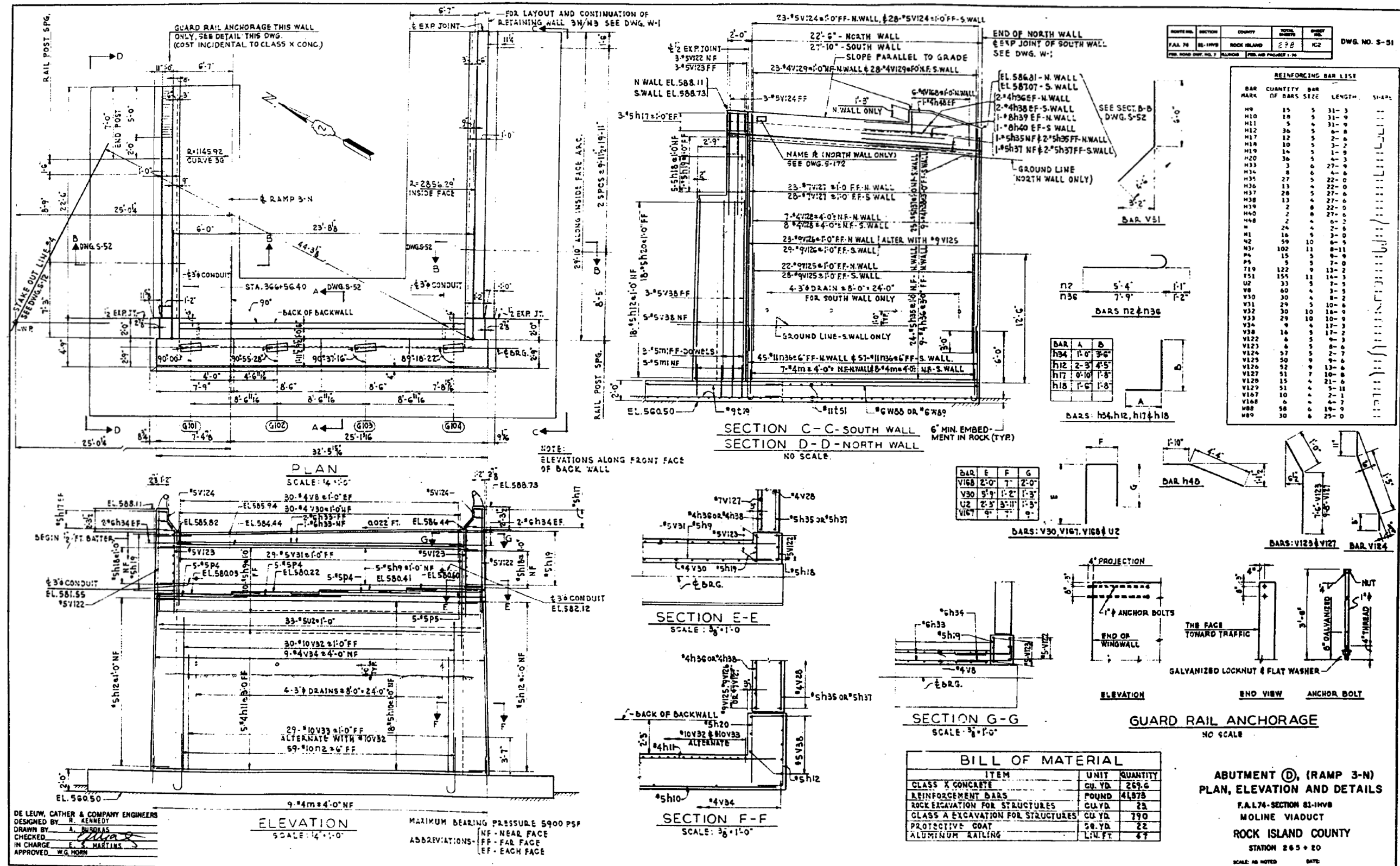
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PLOT SCALE =	CHECKED - AJK	REVISED -
PLOT DATE = 1/18/2017	DRAWN - KMS	REVISED -
	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	665
CONTRACT NO. 64C08			ILLINOIS FED. AID PROJECT	

SHEET NO. SX46 OF SX150 SHEETS



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
0810178-AB321-002-Contract AB Demo-Rasters.brg

MODEL:
38 Contract AB

USER NAME : ksnider
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

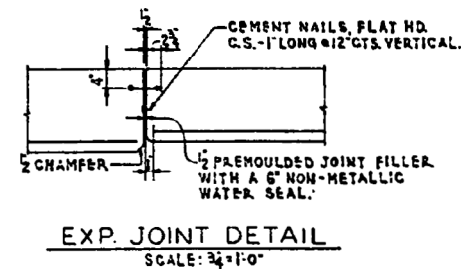
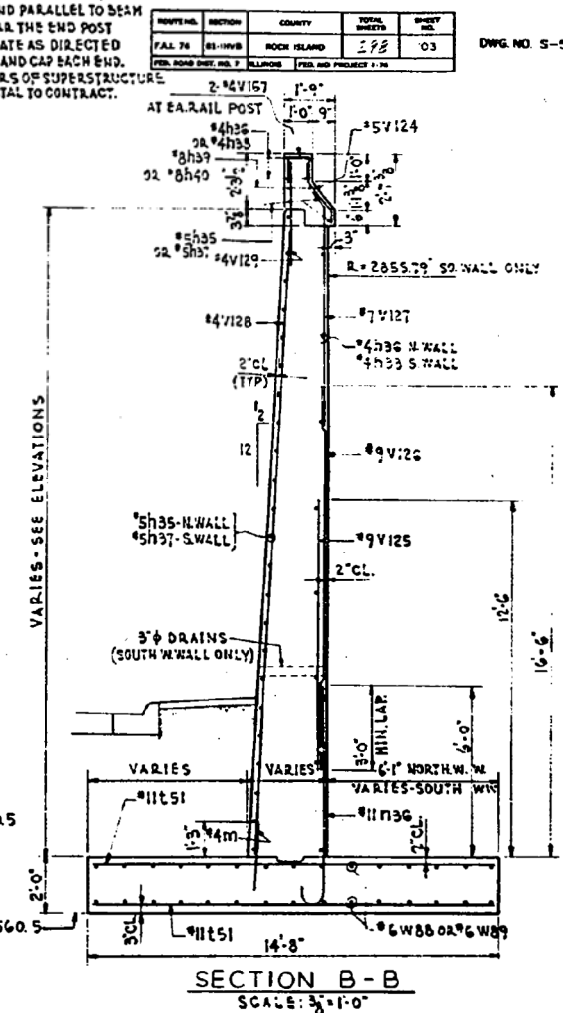
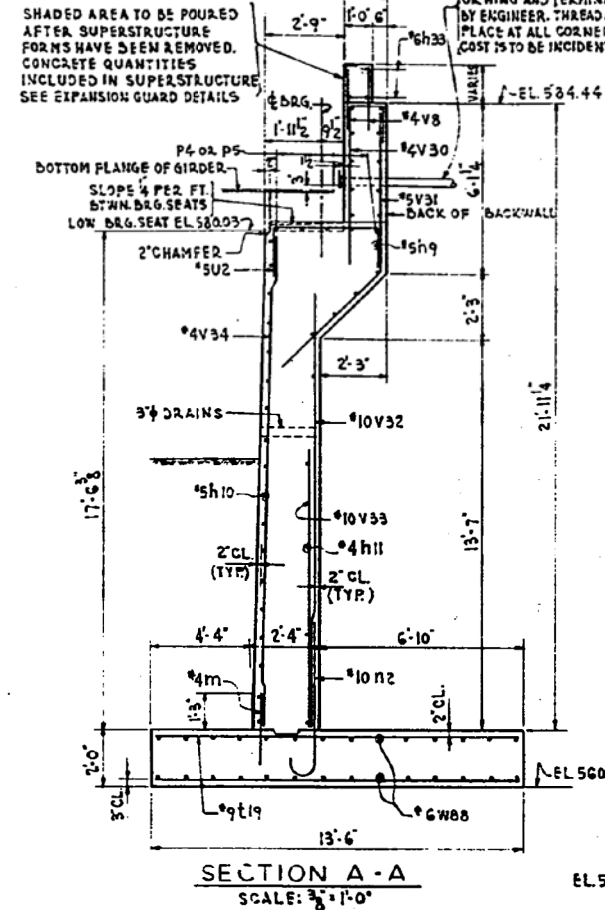
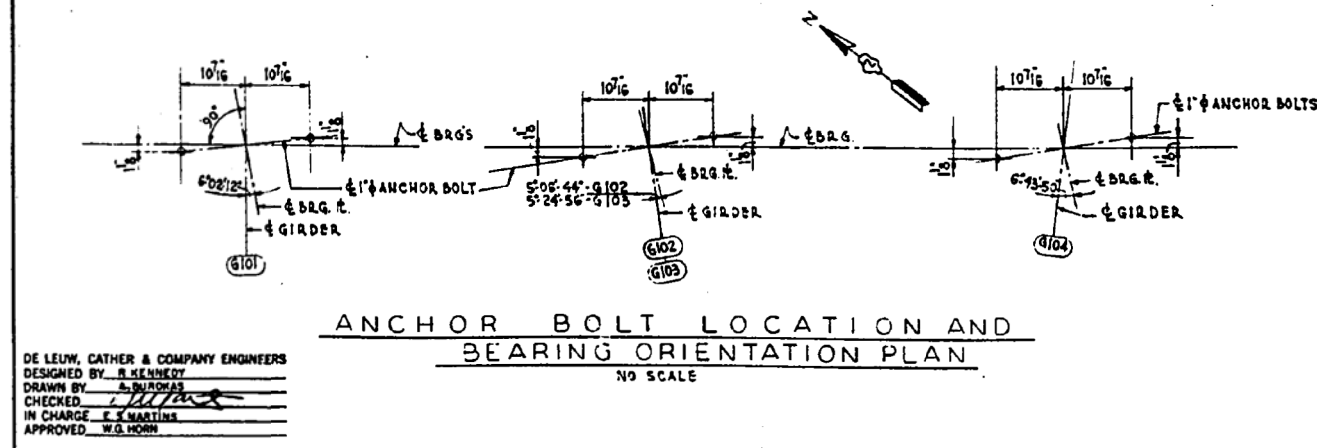
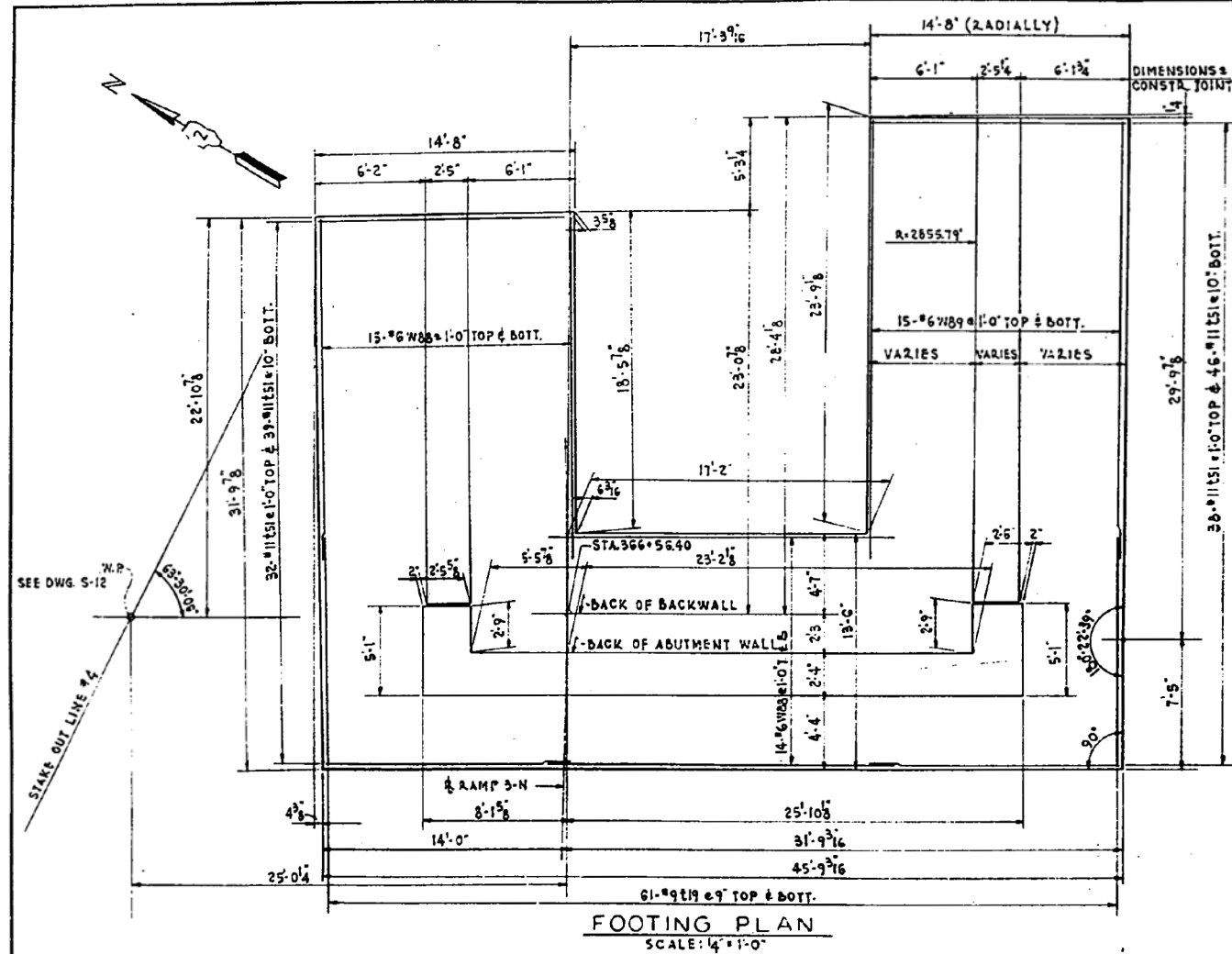
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX47 OF SX150 SHEETS

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVR	ROCK ISLAND	1504	666
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



NOTE:
MAXIMUM FOOTING PRESSURE = 3 TONS PER SQ. FT.

ABUTMENT D
FOOTING PLAN & SECTIONS
F.A.174-SECTION 81-IHV8
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 285 + 20
SCALE: AS NOTED DATE



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME =
0810178-AB321-002-Contract AB Demo-Rasters.brg

MODEL:
39 Contract AB

USER NAME = ksnider
DESIGNED BY - R. KENNEY
DRAWN BY - A. BUDAKAS
CHECKED - F. S. MARTINE
IN CHARGE - F. S. MARTINE
APPROVED - W. G. MOORE

DESIGNED - AWH
CHECKED - A.J.K.
DRAWN - K.M.S.
CHECKED - A.J.K.

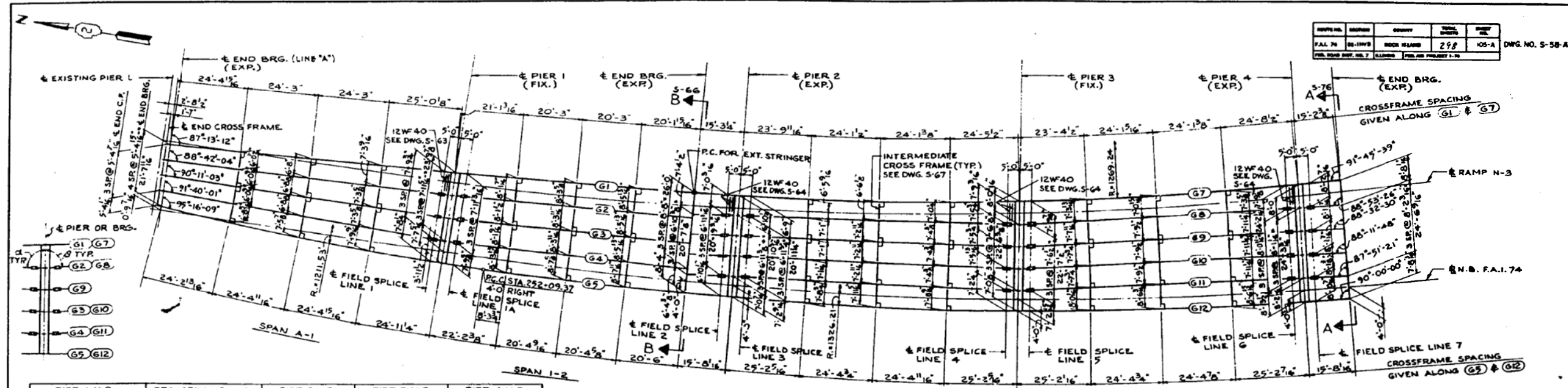
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

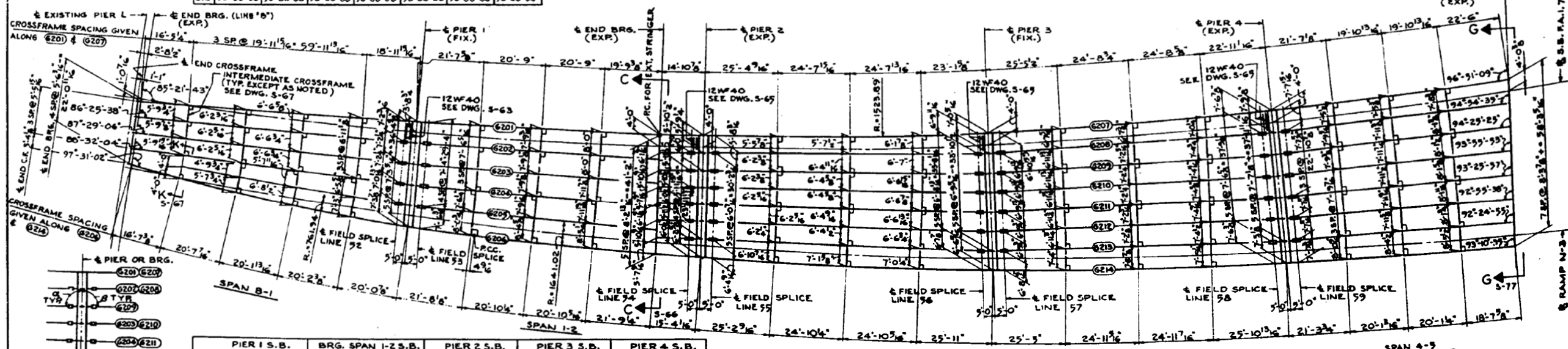
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX48 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	667
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



PIER 1 N.B.	BRG. SPAN 1-2 N.B.	PIER 2 N.B.	PIER 3 N.B.	PIER 4 N.B.
GIR. α β	GIR. α β	GIR. α β	GIR. α β	GIR. α β
G1 92°45'-33" 86°46'-43"	G8 86°12'-12" 93°07'-10"	G9 86°32'-15" 92°47'-07"	G10 86°52'-06" 92°27'-16"	G11 87°11'-44" 92°07'-38"
G2 91°16'-40" 87°17'-32"	G9 86°32'-15" 92°47'-07"	G10 86°52'-06" 92°27'-16"	G11 87°11'-44" 92°07'-38"	G12 90°00'-00" 90°00'-00"
G3 89°47'-41" 87°48'-03"	G10 86°52'-06" 92°27'-16"	G11 87°11'-44" 92°07'-38"	G12 90°00'-00" 90°00'-00"	
G4 88°18'-44" 88°18'-44"	G11 87°11'-44" 92°07'-38"	G12 90°00'-00" 90°00'-00"		
G5 89°20'-36" 90°39'-24"	G12 90°00'-00" 90°00'-00"			



PIER 1 S.B.	BRG. SPAN 1-2 S.B.	PIER 2 S.B.	PIER 3 S.B.	PIER 4 S.B.
GIR. α β	GIR. α β	GIR. α β	GIR. α β	GIR. α β
G201 90°44'-28" 88°19'-19"	G207 90°00'-00" 90°00'-00"	G208 88°19'-58" 91°06'-24"	G209 88°46'-51" 90°39'-31"	G210 89°13'-31" 90°12'-51"
G202 90°00'-39" 88°54'-48"	G208 88°19'-58" 91°06'-24"	G209 88°46'-51" 90°39'-31"	G210 89°13'-31" 90°12'-51"	G211 90°37'-38" 88°48'-44"
G203 88°57'-05" 89°38'-58"	G209 88°46'-51" 90°39'-31"	G210 89°13'-31" 90°12'-51"	G211 90°37'-38" 88°48'-44"	G212 90°32'-09" 88°54'-14"
G204 87°54'-07" 90°12'-58"	G210 89°13'-31" 90°12'-51"	G211 90°37'-38" 88°48'-44"	G212 90°32'-09" 88°54'-14"	G213 90°00'-00" 90°00'-00"
G205 85°31'-52" 90°50'-49"	G211 90°37'-38" 88°48'-44"	G212 90°32'-09" 88°54'-14"	G213 90°00'-00" 90°00'-00"	
G206 86°14'-49" 93°44'-19"	G212 90°32'-09" 88°54'-14"	G213 90°00'-00" 90°00'-00"		
	G213 90°00'-00" 90°00'-00"			
	G214 90°27'-22" 86°58'-53"			

DE LEUW, CATHY & COMPANY ENGINEERS
DESIGNED BY R.D. KOSTER
DRAWN BY R. MILLER
CHECKED BY J. K. KOSTER
IN CHARGE J. K. KOSTER
APPROVED W. H. HORN

FRAMING PLAN UNIT "A" - MAINLINE
F.A.I.74-SECTION 81-HV8
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 285+20
SCALE: AS NOTED
DATE: (REVISED JULY 28, 1972)



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450
Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1JR & 81-1HVBR)	ROCK ISLAND	1504	669
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

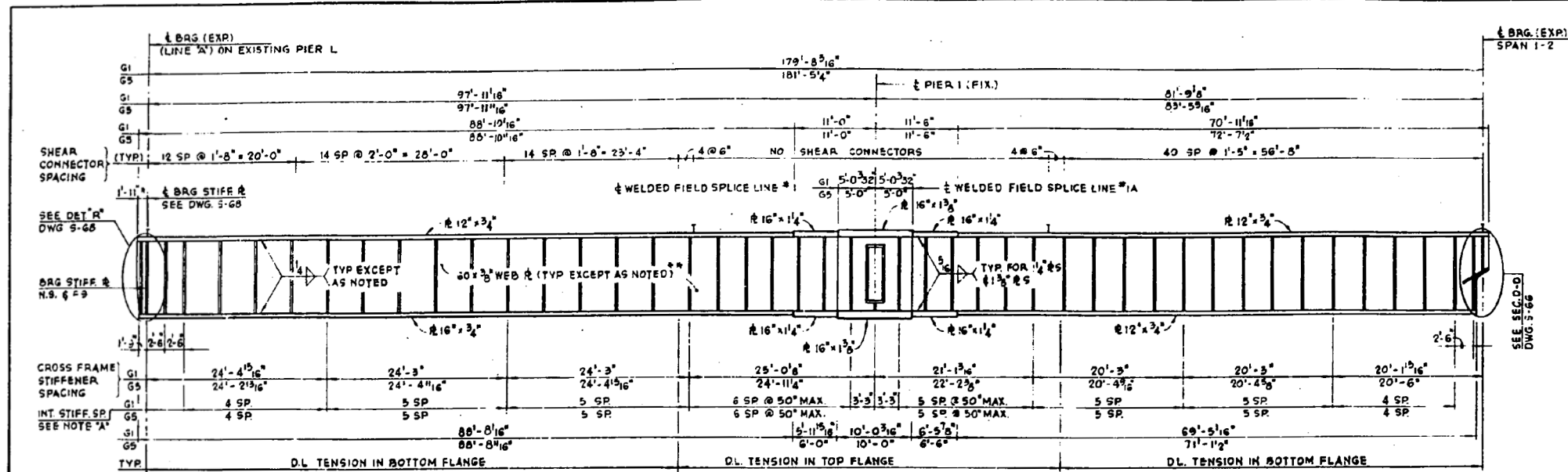
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DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
REVISD :
REVISD :
REVISD :
REVISD :

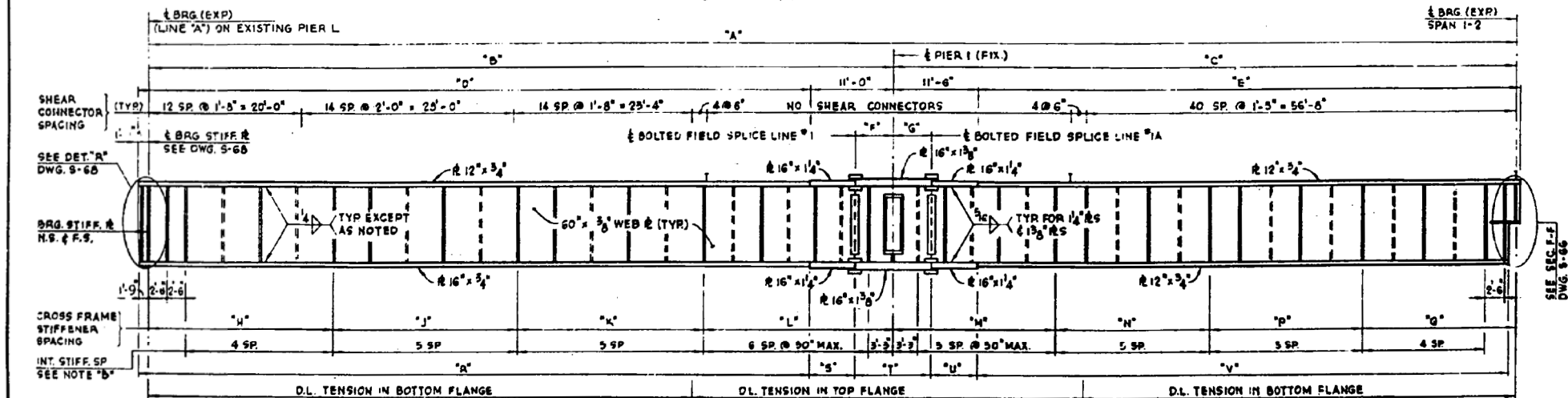
SHEET NO. SX50 OF SX150 SHEETS

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ELEVATION OF GIRDERS G1 & G5

SCALE: 1/8" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



ELEVATION OF GIRDERS G2, G3 & G4

SCALE: 1/8" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.

TABLE OF DIMENSIONS										
GIRDER	A	B	C	D	E	F	G	H	J	K
G2	180'-0 1/8"	97'-10"	82'-2 1/8"	88'-9"	71'-9 1/8"	5'-0"	5'-0 1/16"	24'-8 3/16"	24'-3 3/8"	24'-3 1/16"
G3	180'-5"	97'-0 3/4"	82'-7 1/4"	88'-0 3/4"	72'-2 1/4"	5'-0"	5'-0 1/16"	24'-7 7/8"	24'-3"	24'-3"
G4	180'-10 5/8"	97'-10 1/4"	83'-0 3/8"	88'-9 1/4"	72'-7 3/8"	5'-0"	5'-0"	24'-7 3/4"	24'-3 3/8"	24'-3 1/16"
GIRDER	L	M	N	P	Q	R	S	T	U	V
G2	24'-7 3/8"	21'-6 9/16"	20'-3"	20'-3"	20'-1 9/16"	88'-6"	6'-0"	10'-0 1/16"	6'-5 5/16"	69'-9 1/8"
G3	24'-7 1/8"	21'-10 1/4"	20'-3"	20'-3"	20'-3"	88'-6 3/4"	6'-0"	10'-0 1/16"	6'-5 5/16"	70'-2 1/4"
G4	24'-8 5/16"	22'-1 7/8"	20'-3"	20'-3"	20'-4 1/2"	88'-9 1/4"	6'-0"	10'-0"	6'-6"	70'-7 3/8"

NOTE "A"

STIFFENER #S ARE ON INTERIOR FACE ONLY OF GIRDERS G1 & G5. SPACE INTERMEDIATE STIFFENERS @ 5'-0" MAX. EXCEPT AS NOTED.

NOTE "B"

ALTERNATE INTERMEDIATE STIFFENERS N.B. & R.S. AS SHOWN AND SPACE @ 5'-0" MAX. EXCEPT AS NOTED. FOR GIRDERS G2, G3 & G4 ONLY.

TABLE OF MOMENTS FOR INTERIOR GIRDERS			
	0.4 SPAN A-1	PIER 1	0.6 SPAN 1-2
I_s (in ⁴)	25,936	48,193	23,358
I_c (in ⁴)	61,580	-	56,145
S_s (in ³)	905	1,536	760
S_c (in ³)	1,221	-	1,053
D.L. (k/ft)	0.95	1.05	1.15
M.D.L. (ft-k)	574.0	-1,293.3	829.5
I_s D.L. (ksi)	7.6	10.1	6.8
S.D.L. (k/ft)	0.34	0.34	0.34
M.S.D.L. (ft-k)	262.6	-319.0	151.7
M.L.L. (ft-k)	792.0	-633.0	770.0
M.IMP. (ft-k)	166.0	-135.5	185.6
TOTAL (ft-k)	1,220.6	-1,087.5	1,107.3
I_s L.L. (ksi)	12.0	8.5	12.6
I_s TOTAL (ksi)	19.6	18.6	19.4
VR (k)	51.7	-	50.4

FOR LEGEND, SEE DRAWING NO. S-94.

TABLE OF REACTIONS			
	PIER 1	PIER 2	E. BRG.
R. D.L. (k)	32.4	124.7	32.2
R. S.D.L. (k)	13.3	37.7	10.2
R. L.L. (k)	40.4	73.0	50.6
IMP. (k)	9.0	16.9	12.1
R TOTAL (k)	95.1	292.3	105.1

NOTES

WORK THIS DWG. WITH DWGS. S-56 & S-60 THRU S-68
ALL STRUCTURAL STEEL SHALL BE A.S.T.M. DESIGNATION A36
ALL DIMENSIONS ARE GIVEN ALONG & WEB ON A HORIZONTAL PLANE @ 50°F TEMP.
ALL BEARING & CROSS FRAME STIFFENER #S TO BE VERTICAL.
SPACE INTERMEDIATE STIFFENER #S TO CLEAR WELDED SPLICES BY 9" MIN. & TO CLEAR EDGE OF SPLICE #S 3" ON BOLTED SPLICES.

*THIS DIMENSION TO BE VERIFIED IN THE FIELD BEFORE PLATE GIRDERS ARE FABRICATED.

GIRDER ELEVATIONS
G-1 THRU G-5

F.A.L.74-SECTION 81-1HVBR
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED DATE:

DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY: R.D. HOESTER
DRAWN BY: L.H. KLEIN
CHECKED: *[Signature]*
IN CHARGE: E.S. MARTIN
APPROVED: W.G. HORN



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME: 0810178-A0321-002-Contract AB Demo-Rasters.brg

MODEL: 42 Contract AB

USER NAME: ksnider

PLOT SCALE:

PLOT DATE: 1/18/2017

DESIGNED - AWH

CHECKED - AJK

DRAWN - KMS

CHECKED - AJK

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX51 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVBR	ROCK ISLAND	1504	670
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

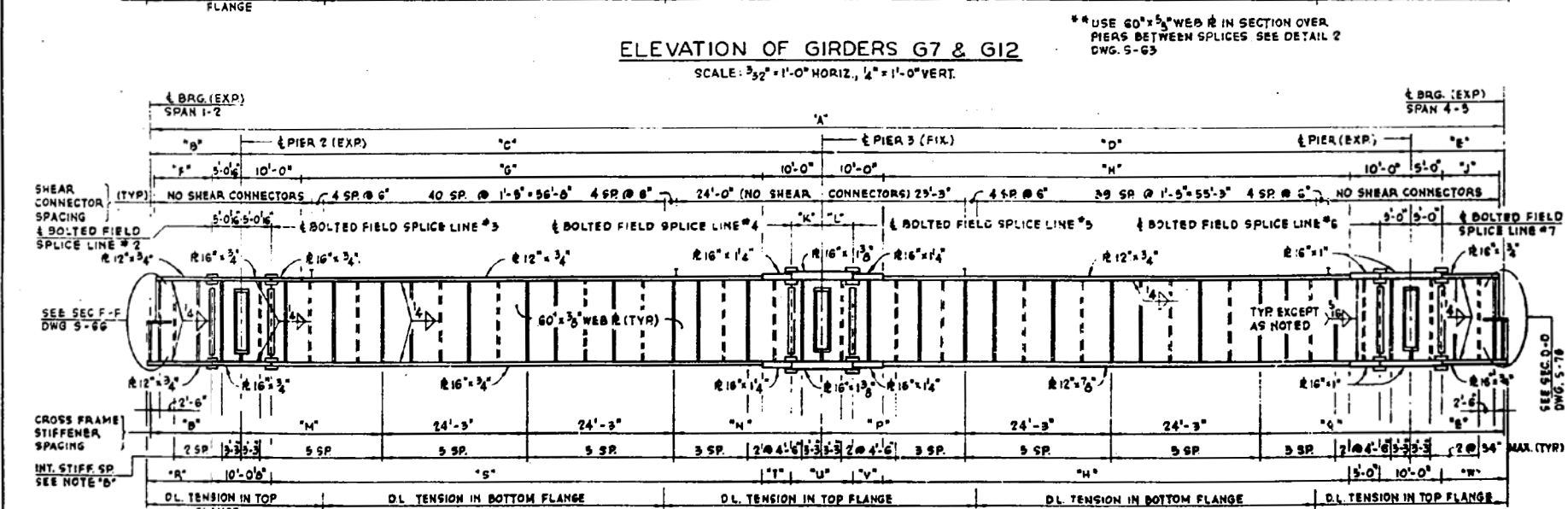
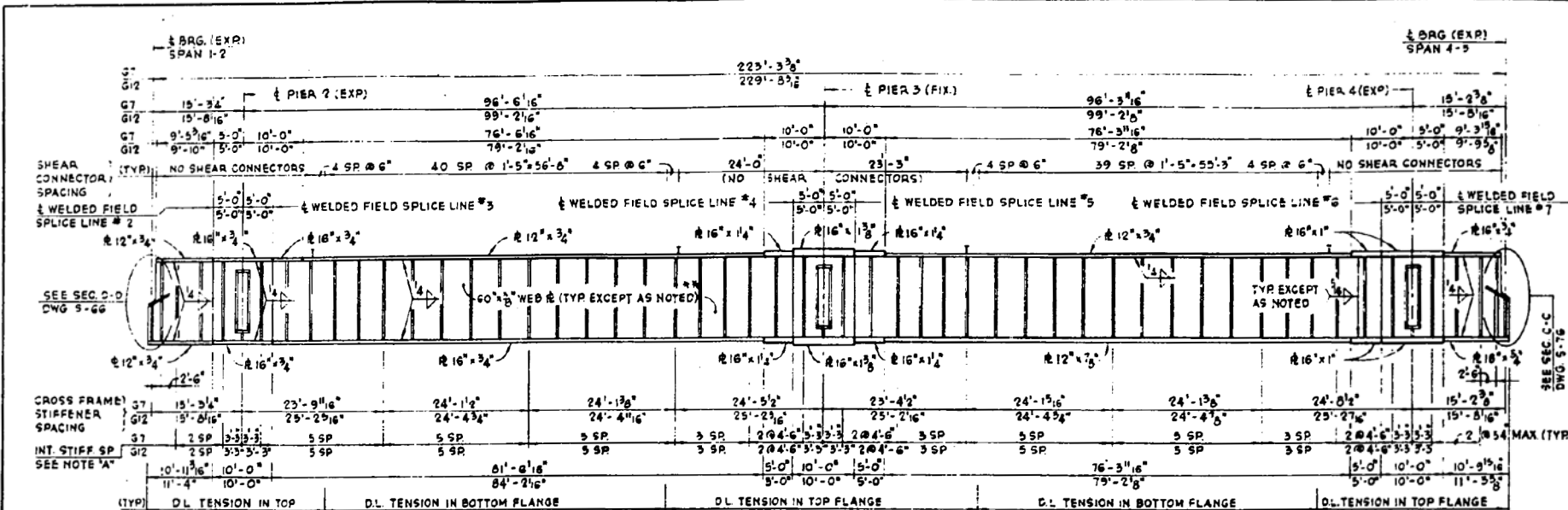


TABLE OF DIMENSIONS											
GIRDER	A	B	C	D	E	F	G	H	J	K	L
G8	224'-6 3/4"	15'-4 1/2"	97'-0 1/8"	96'-10 9/16"	15'-3 1/2"	9'-5 7/16"	77'-0 3/8"	76'-10 9/16"	9'-4 1/2"	9'-0"	9'-0 1/8"
G9	225'-10 1/16"	15'-5 7/16"	97'-5 3/8"	97'-5 3/8"	15'-4 1/16"	9'-6 3/8"	77'-6 3/8"	77'-6 3/8"	9'-5 1/16"	9'-0"	9'-0 1/8"
G10	227'-17 1/8"	15'-6 3/8"	98'-1"	98'-0 1/4"	15'-5 3/16"	9'-7 5/16"	78'-1"	78'-0 1/4"	9'-6 13/16"	9'-0"	9'-0 1/8"
G11	228'-4 15/16"	15'-7 5/16"	98'-7 1/16"	98'-7 1/16"	15'-7 1/16"	9'-8 1/4"	78'-7 1/16"	78'-7 1/16"	9'-8 1/16"	9'-0 1/16"	9'-0 1/16"
GIRDER	M	N	P	Q	R	S	T	U	V	W	
G8	24'-1 9/16"	24'-4 9/8"	23'-9 1/8"	24'-7 1/16"	10'-11 7/16"	82'-0 1/8"	5'-0"	10'-0 1/8"	4'-11 7/8"	10'-10 1/2"	
G9	24'-5 9/16"	24'-7"	24'-2 5/8"	24'-6 3/4"	11'-0 3/8"	82'-6 1/2"	5'-0"	10'-0 1/8"	4'-11 7/8"	10'-11 1/16"	
G10	24'-9 5/8"	24'-9 3/8"	24'-8 1/8"	24'-10 1/8"	11'-1 5/16"	83'-0 15/16"	5'-0"	10'-0 1/8"	4'-11 5/16"	11'-0 13/16"	
G11	25'-0 3/4"	25'-0 11/16"	25'-0 7/16"	25'-0 7/16"	11'-2 1/4"	83'-7 3/8"	4'-11 15/16"	10'-0 1/8"	4'-11 15/16"	11'-2 1/16"	

TABLE OF MOMENTS FOR INTERIOR GIRDERS					
	PIER 2	0.4 SPAN 2-3	PIER 3	0.5 SPAN 3-4	PIER 4
I_a (in ⁴)	28,902	25,936	48,193	24,732	36,521
I_c (in ⁴)	-	62,846	-	59,345	-
S_a (in ³)	940	905	1,536	831	1,178
S_c (in ³)	-	1,227	-	1,136	-
D.L. (k ft)	0.95	1.00	1.05	1.08	1.08
M.D.L. (ft-k)	-533.8	405.4	-1,074.9	395.0	-705.4
I_a (ksi)	6.8	5.4	8.4	5.7	7.2
S.D.L. (k ft)	0.31	0.31	0.31	0.31	0.31
M.S.D.L. (ft-k)	-182.3	147.5	-256.5	142.3	-204.7
M.L.L. (ft-k)	-605.0	826.0	-750.0	896.0	-692.0
M.I.M.P. (ft-k)	-135.0	185.2	-105.0	200.9	-153.2
TOTAL (ft-k)	-922.3	1,158.7	-1,171.5	1,239.2	-1,049.9
I_a L.L. (ksi)	11.8	11.4	9.2	13.1	10.7
I_a TOTAL (ksi)	18.6	16.8	17.6	18.8	17.9
VR (k)	-	54.3	-	59.9	-

TABLE OF REACTIONS			
	PIER 2	PIER 3	PIER 4
R.D.L. (k)	85.3	111.6	102.6
R.S.D.L. (k)	28.6	31.7	30.3
R.L.L. (k)	64.5	77.0	73.6
IMP. (k)	14.3	17.1	15.3
R TOTAL (k)	192.7	237.4	221.8

NOTES

WORK THIS DWG WITH DWGS 5-50, 5-59 & 5-61 THRU 5-65

ALL STRUCTURAL STEEL SHALL BE A572M DESIGNATION A36

ALL DIMENSIONS ARE GIVEN ALONG THE WEB ON A HORIZONTAL PLANE @ 50°F TEMP

ALL BEARING & CROSS FRAME STIFFENERS TO BE VERTICAL.

SPACE INTERMEDIATE STIFFENERS TO CLEAR WELDED SPLICES BY 9" MIN. & TO CLEAR EDGE OF SPLICES BY 3" ON BOLTED SPLICES.

NOTE "A"

STIFFENER RS ARE ON INTERIOR FACE ONLY OF GIRDERS G7 & G12. SPACE INTERMEDIATE STIFFENERS @ 5'-0" MAX. EXCEPT AS NOTED.

NOTE "B"

ALTERNATE INTERMEDIATE STIFFENERS AS SHOWN AND SPACE @ 5'-0" MAX. EXCEPT AS NOTED FOR GIRDERS G8 THRU G11 ONLY

**GIRDER ELEVATIONS
G-7 THRU G-12**
F.A.I. 74-SECTION 81-11VB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 285 + 20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-11VB	ROCK ISLAND	1504	671
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

FILE NAME : 0810178-A0321-002-Contract AB Demo-Rasters.brg
MODEL : 43 Contract AB

USER NAME : ksnider
DESIGNED : AWH
CHECKED : AJK
PLOT SCALE :
DRAWN : KMS
PLOT DATE : 1/18/2017
CHECKED : AJK
REVISED :

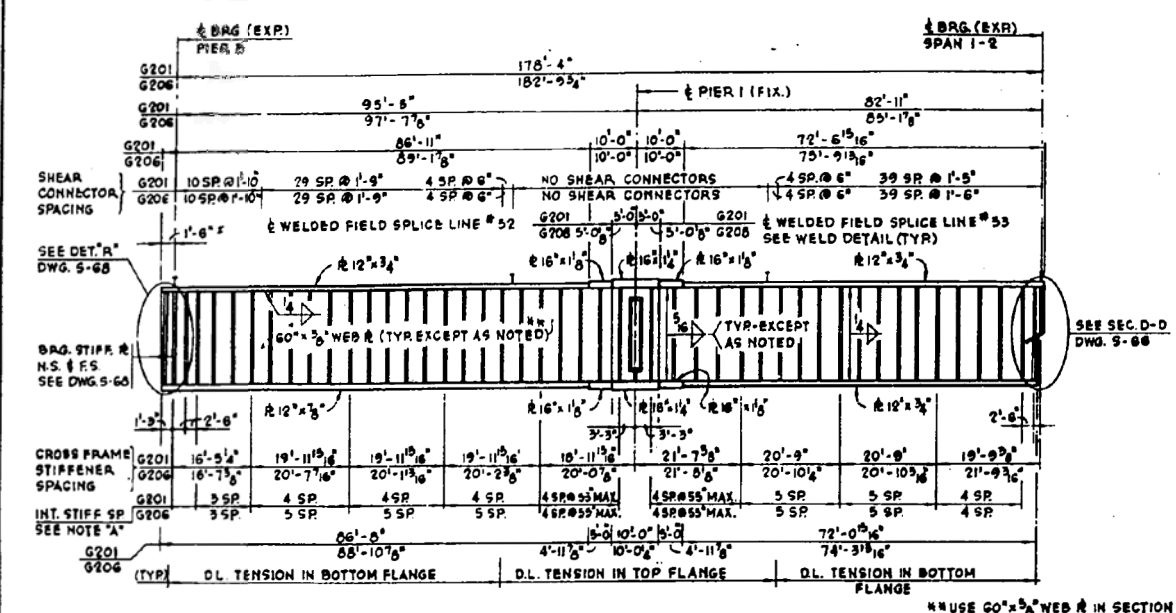
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PLOT SCALE :
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PLOT DATE : 1/18/2017
CHECKED : AJK
REVISED :

DESIGNED : AWH
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PLOT SCALE :
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PLOT DATE : 1/18/2017
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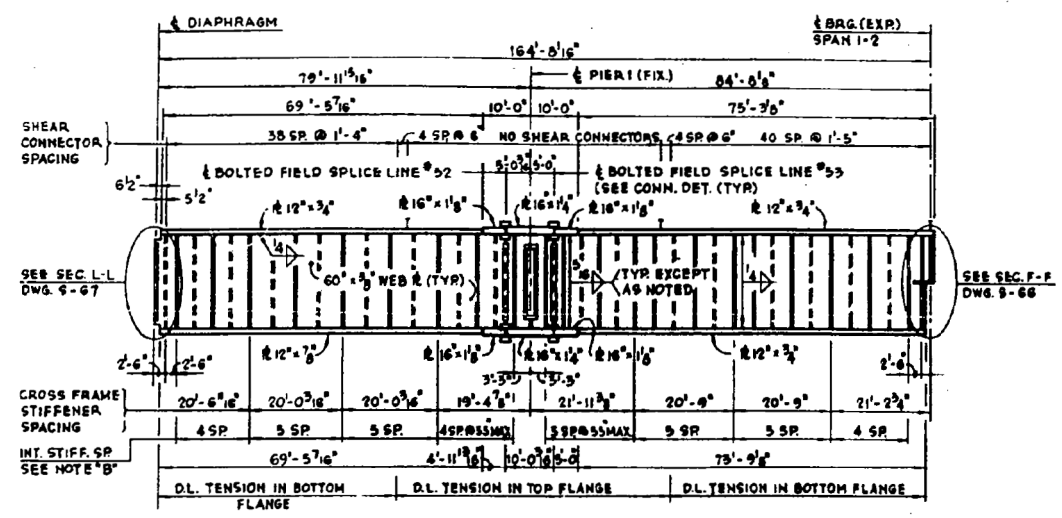
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PLOT SCALE :
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PLOT DATE : 1/18/2017
CHECKED : AJK
REVISED :

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PLOT SCALE :
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PLOT DATE : 1/18/2017
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REVISED :

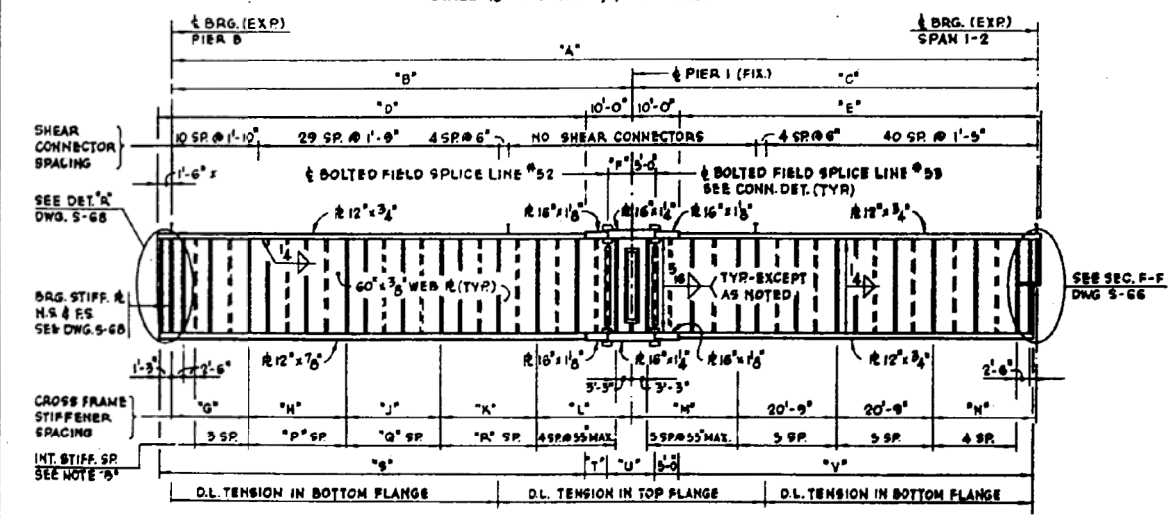
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
174	81-11VBR	ROCK ISLAND	298	300-A
FED. ROAD DIST. NO. 7 ILLINOIS (FED. AID PROJECT 1.74)				



ELEVATION OF GIRDERS G201 & G206
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



ELEVATION OF GIRDER G205
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



ELEVATION OF GIRDERS G202 THRU G204
SCALE: 1/16" = 1'-0" HORIZ., 1" = 1'-0" VERT.

TABLE OF MOMENTS FOR INTERIOR GIRDERS			
	0.4 SPAN 8-1	PIER 1	0.6 SPAN 1-2
M_A (in ⁴)	24,732	NA, 271	23,358
M_C (in ⁴)	56,993	-	55,201
M_B (in ⁴)	831	1,417	760
S_x (in ³)	1,123	-	1,044
$D.L.$ (k/ft)	0.89	0.95	1.03
$M.D.L.$ (ft-k)	518.3	-1152.7	403.3
I_x (in ⁴)	7.5	9.8	6.4
$S.D.L.$ (k/ft)	0.30	0.30	0.30
$M.S.D.L.$ (ft-k)	220.2	-280.4	180.6
$M.L.L.$ (ft-k)	667.0	-555.0	712.0
M IMP. (ft-k)	151.5	-129.8	172.2
TOTAL (ft-k)	1038.8	-965.2	1024.8
I_x L.L. (ksi)	10.1	8.2	11.8
I_x TOTAL (ksi)	17.6	18.0	18.2
V_R (k)	48.8	-	53.8

TABLE OF REACTIONS			
	PIER 8	PIER 1	E. BRG.
R. D.L. (k)	29.4	111.1	29.7
R. S.D.L. (k)	11.4	33.2	9.2
R. L.L. (k)	37.9	85.8	47.3
IMP. (k)	8.6	15.3	11.3
R TOTAL (k)	87.3	229.4	97.9

FOR LEGEND, SEE DWG. 9-99

NOTES
WORK THIS DWG. WITH DWGS. 9-58 THRU 9-60 & 9-62 THRU 9-68
ALL STRUCTURAL STEEL TO BE A.S.T.M. DESIGNATION A36
ALL DIMENSIONS ARE GIVEN ALONG & WEB ON A HORIZONTAL PLANE @ 50°F TEMP.
SPACE INTERMEDIATE STIFFENERS TO CLEAR WELDED SPLICES BY 9" MIN. & TO CLEAR EDGE OF SPLICE BY 9" ON BOLTED SPLICES
THIS DIMENSION TO BE VERIFIED IN THE FIELD BEFORE PLATE GIRDERS ARE FABRICATED.

TABLE OF DIMENSIONS											
GIRDER	A	B	C	D	E	F	G	H	J	K	L
G202	179'-1"	95'-8 1/2"	83'-4 1/8"	87'-2 1/2"	73'-11 1/8"	5'-0"	16'-10 3/8"	20'-0"	20'-0"	20'-0"	18'-10 3/8"
G203	179'-10 3/8"	96'-8 1/8"	83'-9 1/8"	88'-2 1/8"	74'-4 3/8"	5'-0"	17'-2 1/8"	20'-0"	20'-0 1/8"	20'-0 1/8"	18'-10 3/8"
G204	180'-8 1/8"	96'-5 1/8"	84'-2 3/8"	87'-11 1/8"	74'-9 3/8"	5'-0 1/8"	17'-4 3/8"	20'-0"	20'-0"	20'-0"	19'-1 1/2"
GIRDER	M	N	P	Q	R	S	T	U	V	W	X
G202	21'-10 3/8"	19'-11 3/4"	4	4	4	26'-11 1/2"	5'-0"	10'-0"	72'-5 1/8"		
G203	22'-0"	20'-3 3/8"	4	4	4	27'-11 1/2"	5'-0"	10'-0"	72'-10 3/8"		
G204	21'-11 1/8"	20'-9"	4	4	4	27'-8 1/2"	4'-11 1/2"	10'-0 1/8"	73'-3 3/8"		

NOTE "A"
STIFFENERS ARE ON INTERIOR FACE ONLY OF GIRDERS G201 & G206. SPACE INTERMEDIATE STIFFENERS @ 5'-0" MAX. EXCEPT AS NOTED.
NOTE "B"
ALTERNATE INTERMEDIATE STIFFENERS H & R AS SHOWN AND SPACE @ 5'-0" MAX. EXCEPT AS NOTED. FOR GIRDERS G202 THRU G205 ONLY.

GIRDER ELEVATIONS
G-201 THRU G-206
F.A.L. 74-SECTION 81-11VBR
MOJINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

1/2" REVISION, JULY 28, 1973
SCALE: AS NOTED
DATE:

DE LEUN, CATHY & COMPANY ENGINEERS
DESIGNED BY R.D. MOSELEY
DRAWN BY J.B. LEESE
CHECKED BY J.B. LEESE
IN CHARGE E. MARTINEZ
APPROVED W.D. MOSELEY



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-11VBR	ROCK ISLAND	1504	672
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

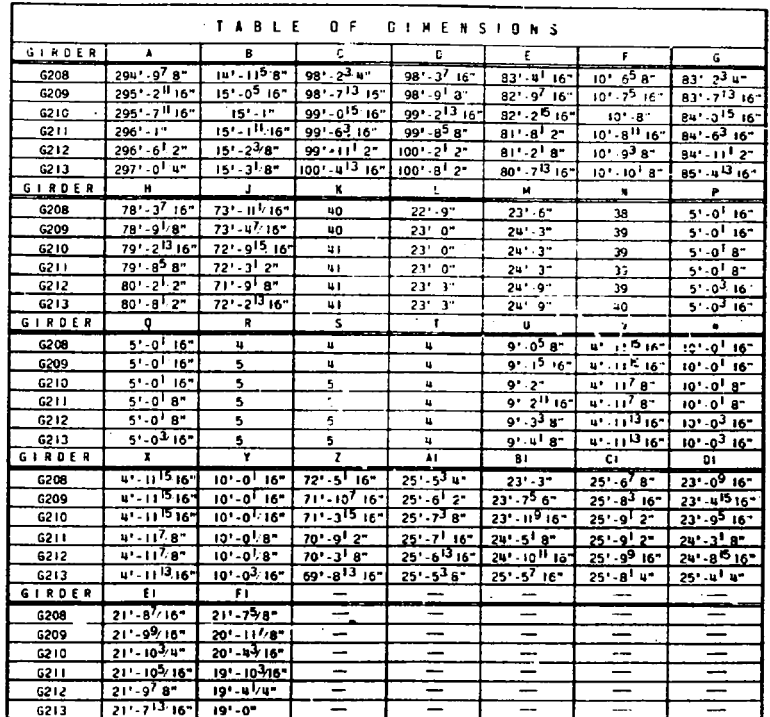
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MODEL : 44 Contract AB

USER NAME : ksnider
DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
PLOT SCALE :
PLOT DATE : 1/18/2017

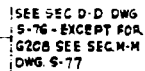
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CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
REVISED :
REVISED :
REVISED :
REVISED :

SHEET NO. SX53 OF SX150 SHEETS

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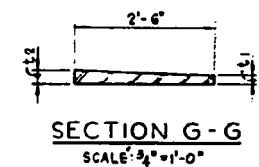
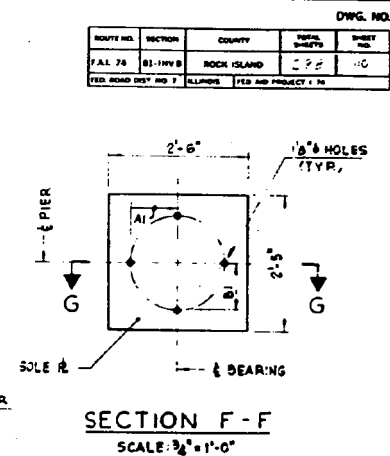
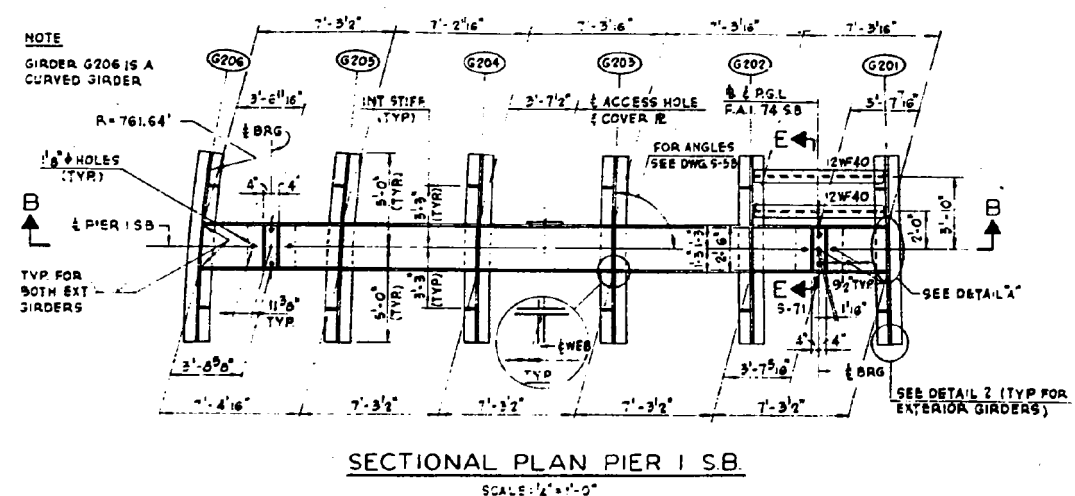
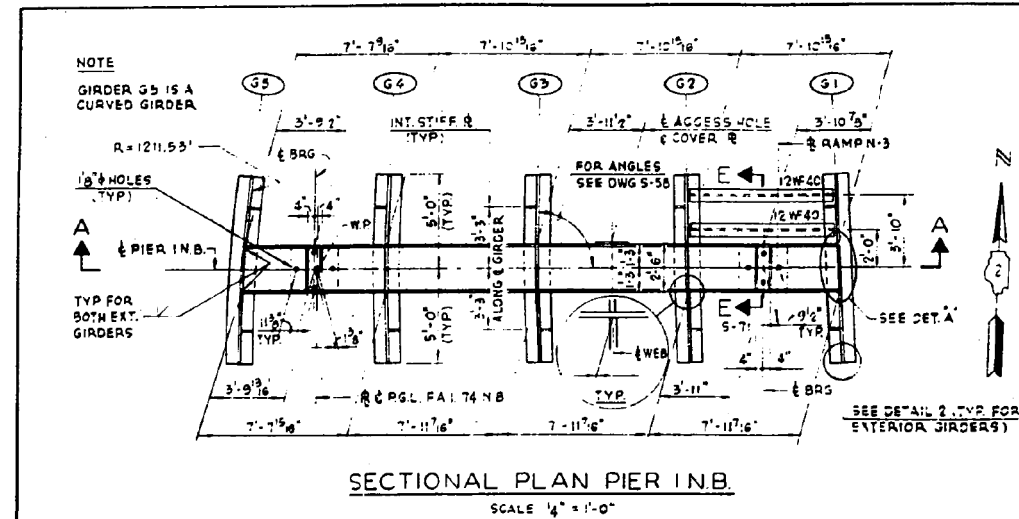
SCALE: $\frac{1}{16}'' = 1'-0''$ HORIZ., $\frac{1}{4}'' = 1'-0''$ VERT



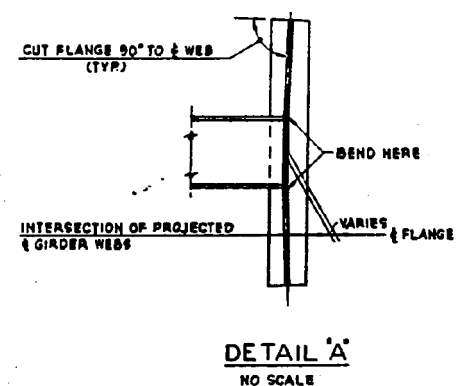
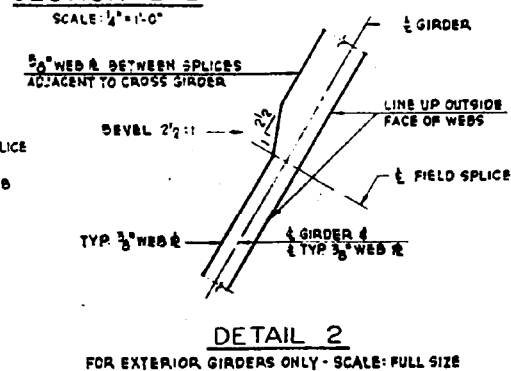
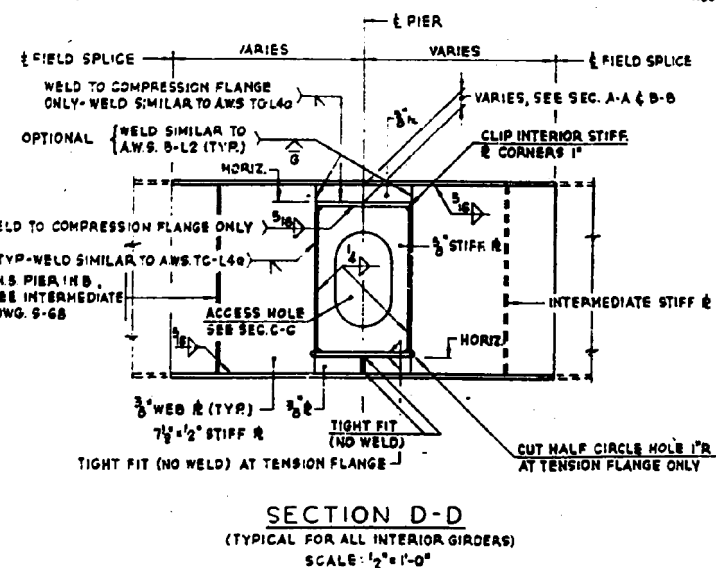
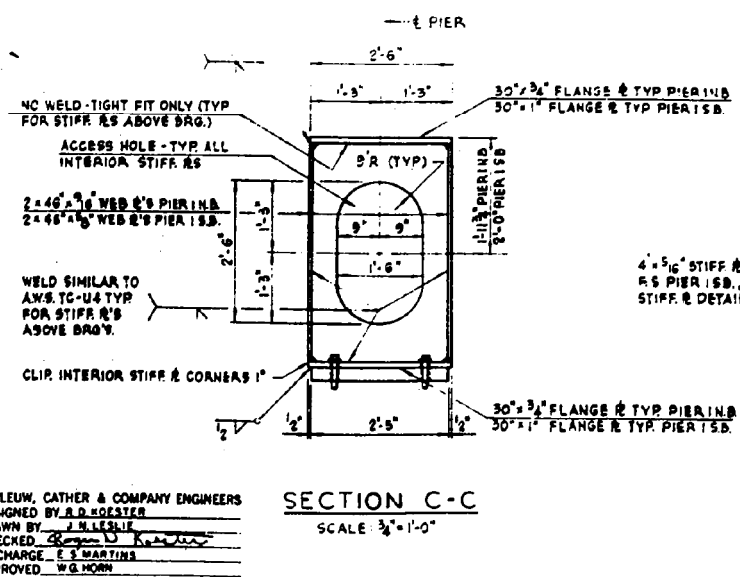
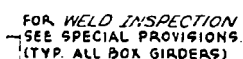
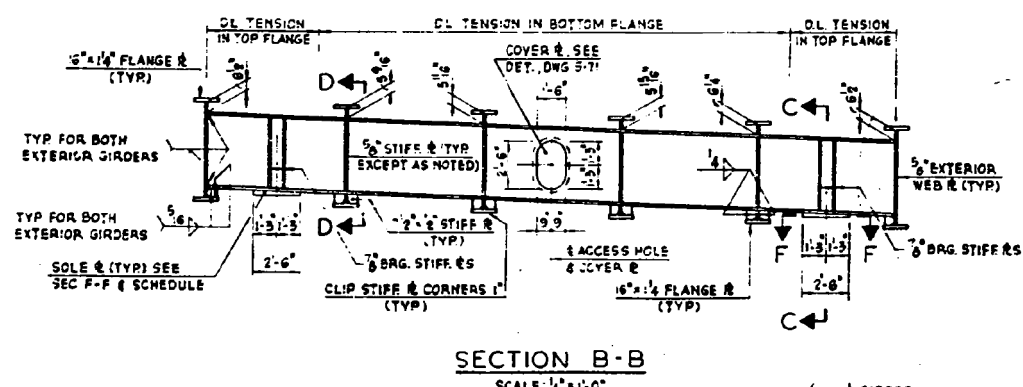
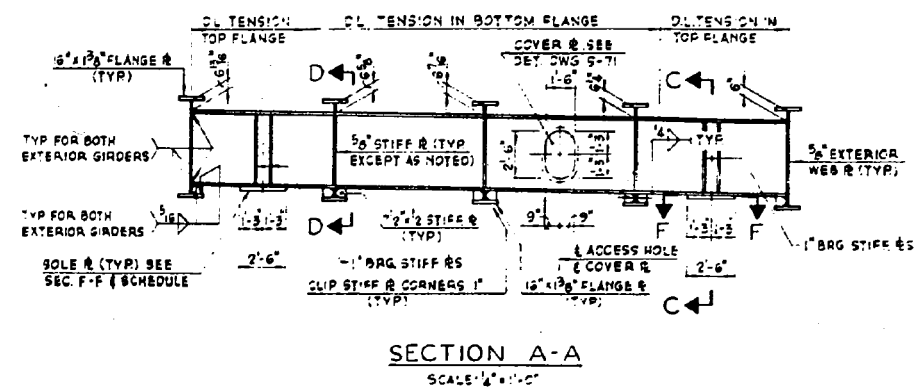
SCALE: $\frac{1}{8}" = 1'-0"$ HORIZ., $\frac{1}{4}" = 1'-0"$ VERT.

SCALE AS NOTED DATE:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	673
		CONTRACT NO. 64C08		
ILLINOIS FED. AID PROJECT				



PIER	A1	B1	t1	t2
INB-E.BAG	113 ³	113 ³	23 ³	24 ³
INB-W.BAG	92 ³	92 ³	23 ³	24 ³
ISB-E.BAG	113 ³	113 ³	2 ³	3 ³
ISB-W.BAG	92 ³	92 ³	2 ³	3 ³



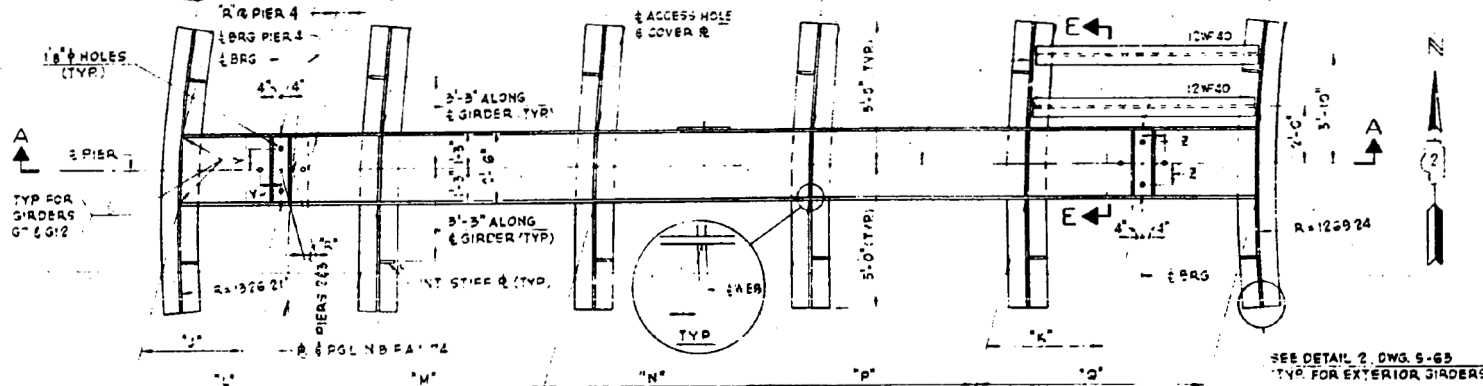
NOTES

WORK THIS DWG WITH DWGS. 8-58 THRU 8-68
ALL STIFFENER & GIRDER WEBS TO BE VERTICAL.
FOR FIELD SPLICE DETAILS, SEE DWG. 8-67
FOR LOCATION WITH RESPECT TO R.L. & FOR
DIMENSIONS ALONG & PIER, SEE FRAMING PLAN
DWG. 8-58

**CROSS GIRDERS AT PIERS
1 (N.B.) AND 1 (S.B.)
F.A. 174-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20**

NOTE

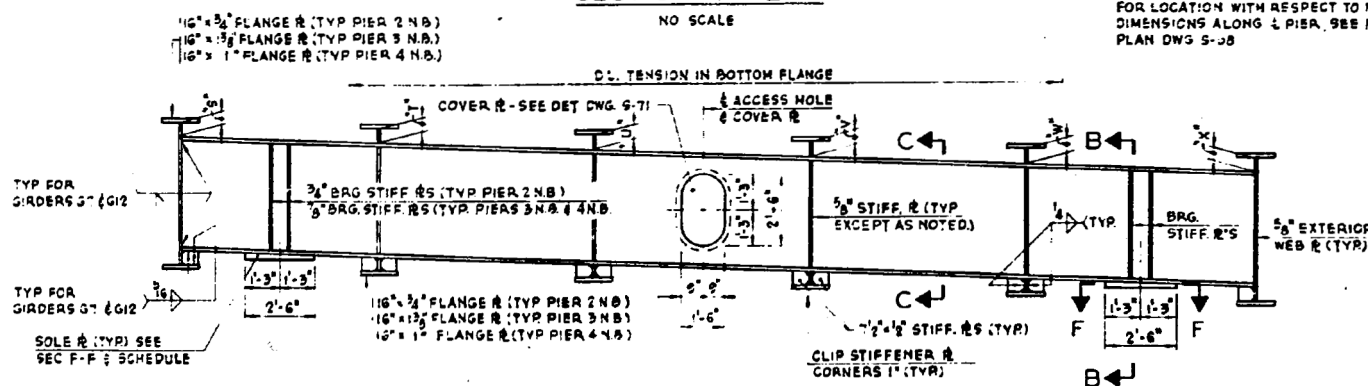
GIRDERS 3" & 5" ARE CURVED.



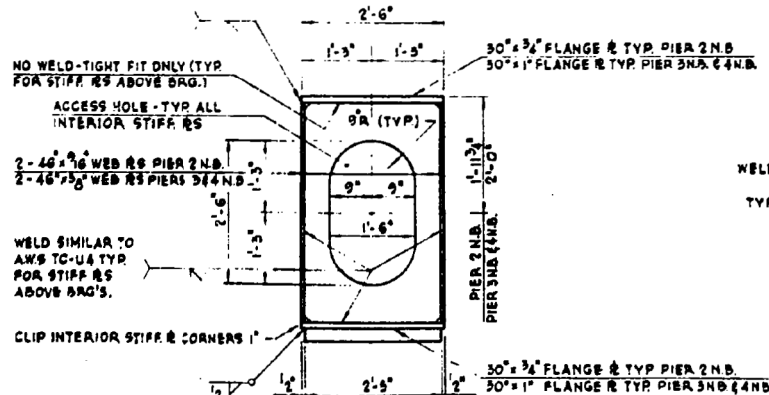
SECTIONAL PLAN
NO SCALE

NOTE

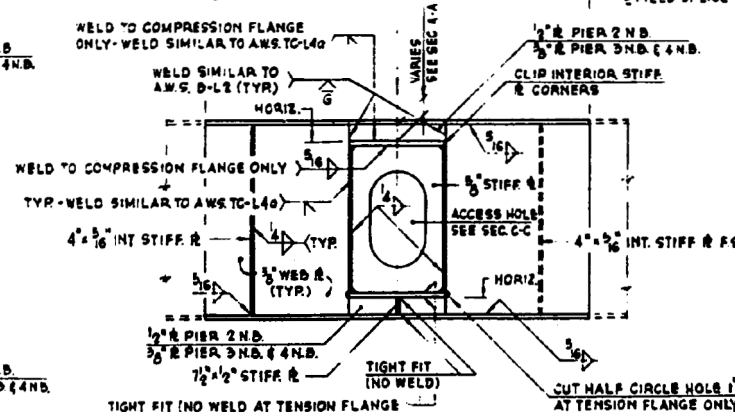
FOR LOCATION WITH RESPECT TO P.G.L. & FOR DIMENSIONS ALONG & PIER, SEE FRAMING PLAN DWG 5-58



SECTION A-A
NO SCALE



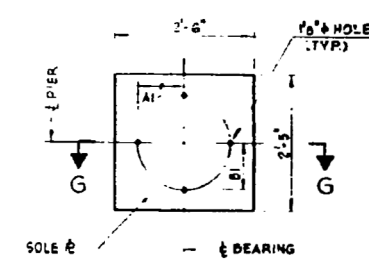
SECTION B-B
SCALE: 3/4" = 1'-0"



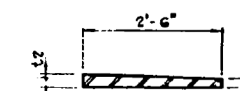
SECTION C-C
(TYPICAL FOR ALL INTERIOR GIRDERS)
SCALE: 1/2" = 1'-0"

TABLE OF DIMENSIONS

ITEM	PIER 2 N.B.	PIER 3 N.B.	PIER 4 N.B.
A	6'-11 1/8"	7'-0 1/8"	8'-2 7/8"
B	6'-11 1/8"	7'-0 1/8"	8'-0 1/8"
C	6'-11 1/8"	7'-0 1/8"	8'-0 1/8"
D	6'-11 1/8"	7'-0 1/8"	8'-0 1/8"
E	6'-10 3/4"	7'-11 1/8"	7'-11 1/8"
F	3'-6 1/4"	3'-6 1/4"	4'-11 1/8"
G	3'-6 1/4"	3'-6 1/4"	4'-0 1/2"
H	3'-6 1/4"	3'-11 1/4"	3'-11 1/8"
J	3'-6 1/4"	3'-6 1/4"	4'-11 1/8"
K	3'-4 7/8"	3'-11 1/8"	4'-0 1/8"
L	7'-0 3/4"	7'-0 7/8"	8'-11 1/8"
M	6'-11 1/2"	7'-6 3/8"	8'-11 1/8"
N	6'-11 1/2"	7'-6 3/8"	8'-11 1/8"
P	6'-11 1/2"	7'-6 3/8"	8'-11 1/8"
Q	6'-10 3/4"	7'-11 1/2"	8'-0 3/8"
R	5'-6"	5'-6"	5'-6"
S	6"	6"	6"
T	6'-10"	5'-11 1/2"	6'-2 1/8"
U	6'-10"	6'-4"	6'-2 1/8"
V	6'-10"	6'-10"	6'-10"
W	6'-10"	6'-10"	6'-10"
X	6"	5"	5'-11 1/8"
Y	8'-2"	9'-2"	9'-2"
Z	8'-2"	9'-2"	9'-2"



SECTION F-F
SCALE: 3/4" = 1'-0"



SECTION G-G
SCALE: 3/4" = 1'-0"

SOLE R SCHEDULE

PIER	A1	B1	C1	D1
2 N.B. E. BRG	8'-2"	8'-2"	1'-10"	3"
2 N.B. W. BRG	8'-2"	8'-2"	1'-10"	3"
3 N.B. E. BRG	11'-3"	11'-3"	1'-10"	3'-0"
3 N.B. W. BRG	9'-2"	9'-2"	1'-10"	3'-0"
4 N.B. E. BRG	9'-2"	9'-2"	2"	3'-10"
4 N.B. W. BRG	9'-2"	9'-2"	2"	3'-10"

NOTES

WORK THIS DWG. WITH DWGS 5-58 THRU 5-68
ALL STIFF. RS & GIRDER WEBS TO BE VERTICAL
FOR FIELD SPLICE DETAILS, SEE DWG. 5-67

CROSS GIRDERS AT PIERS
2 (N.B.), 3 (N.B.) AND 4 (N.B.)

F.A.L. 74-SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED DATE:

5-64

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX56 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	675
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

FILE NAME : 0810178-A0321-002-Contract AB Demo_Rasters.brg

MODEL : 47 Contract AB

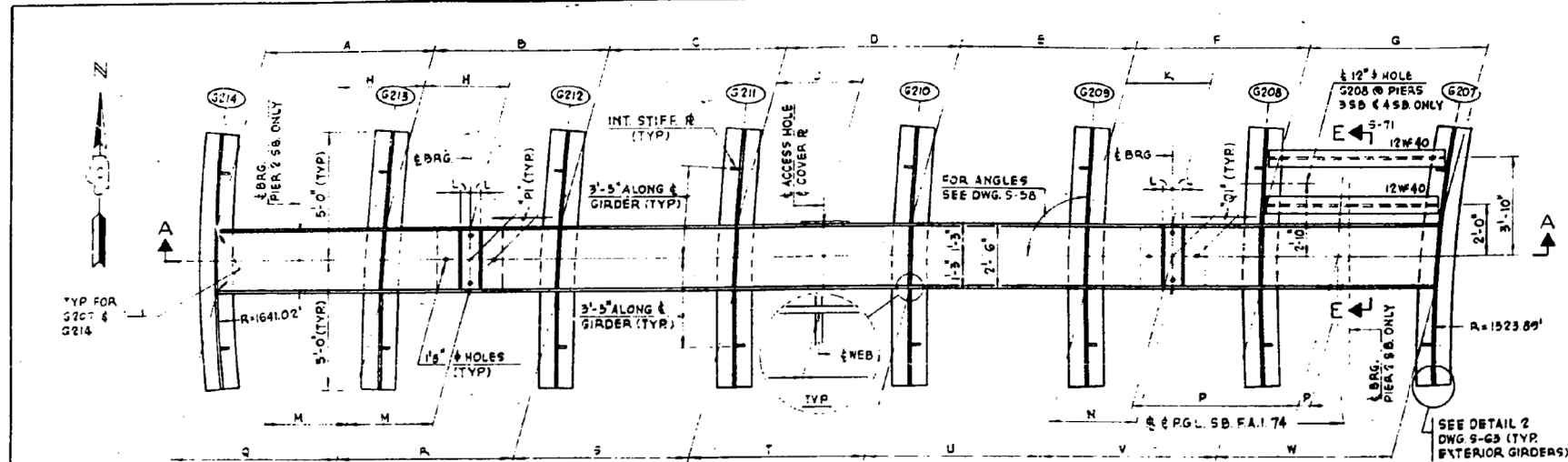
USER NAME : ksnider
DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
PLOT SCALE :
PLOT DATE : 1/18/2017
IN CHARGE : E. S. MARTINS
APPROVED : W.C. HORN

DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
PLOT DATE : 1/18/2017
IN CHARGE : E. S. MARTINS
APPROVED : W.C. HORN

DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
PLOT DATE : 1/18/2017
IN CHARGE : E. S. MARTINS
APPROVED : W.C. HORN

DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
PLOT DATE : 1/18/2017
IN CHARGE : E. S. MARTINS
APPROVED : W.C. HORN

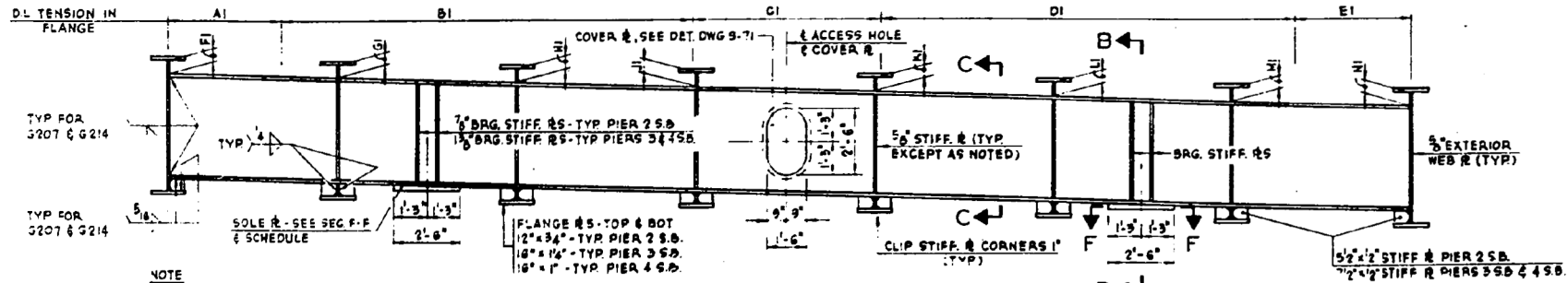
DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
PLOT DATE : 1/18/2017
IN CHARGE : E. S. MARTINS
APPROVED : W.C. HORN



NOTE
FOR LOCATION WITH RESPECT TO P.G.L. & FOR DIMENSIONS
ALONG & PIER, SEE FRAMING PLAN DWG. 9-58

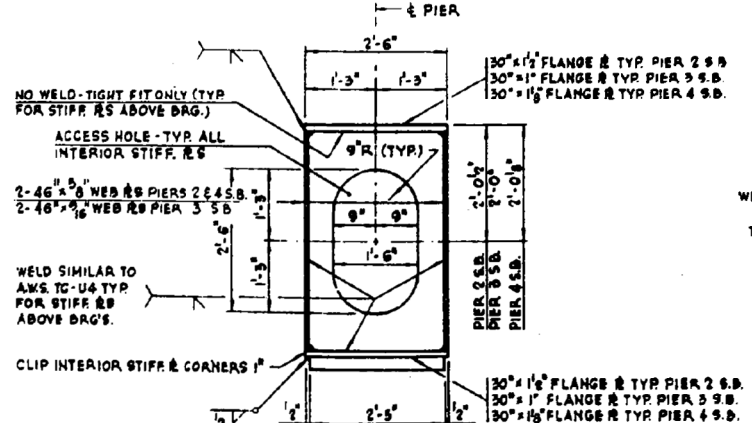
SECTIONAL PLAN
NO SCALE

NOTES
GIRDERS G207 & G214 ARE CURVED



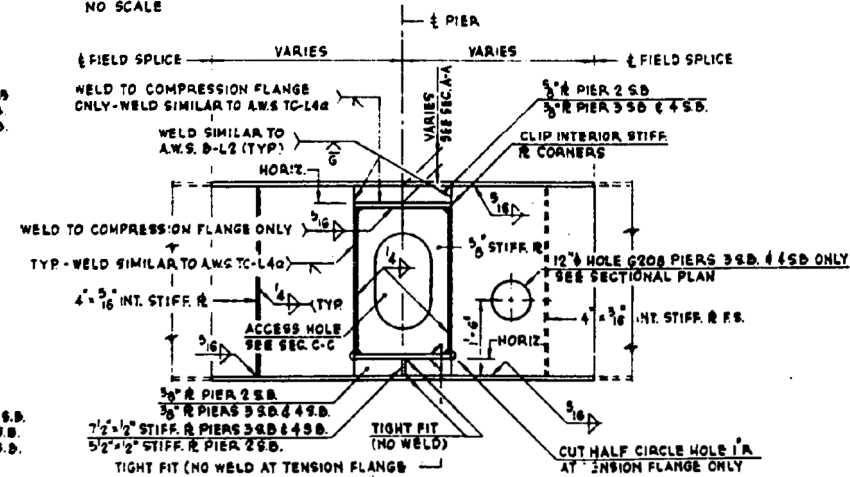
NOTE
BEARINGS SHOWN IN CORRECT POSITION
FOR PIERS 3 S.B. & 4 S.B. ONLY.

SECTION A-A
NO SCALE



DE LEUW, CATHY & COMPANY ENGINEERS
DESIGNED BY: J.D. ROESTER
DRAWN BY: J.N. LESLIE
CHECKED BY: J.N. LESLIE
IN CHARGE: J. WARTING
APPROVED: W.G. NORM

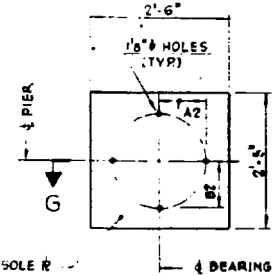
SECTION B-B
NO SCALE



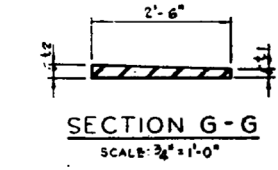
SECTION C-C
(TYPICAL FOR ALL INTERIOR GIRDERS)
SCALE: 1/2" = 1'-0"

TABLE OF DIMENSIONS			
DIMENSIONS	PIER 2 S.B.	PIER 3 S.B.	PIER 4 S.B.
A	6'-2 1/8"	6'-6 1/8"	7'-5 1/8"
B	5'-11 7/8"	6'-9 3/8"	7'-7"
C	6'-0 1/8"	6'-9 3/8"	7'-7"
D	5'-11 7/8"	6'-9 3/8"	7'-7"
E	5'-11 7/8"	6'-9 3/8"	7'-7"
F	5'-11 7/8"	6'-9 3/8"	7'-7"
G	5'-8 1/2"	6'-11 3/8"	7'-8 1/8"
H	3'-12 3/4"	5'-5 3/8"	3'-8 3/8"
J	2'-6 3/8"	3'-4 1/2"	3'-9 1/2"
K	8'-10 3/4"	3'-3 7/8"	3'-8 7/8"
L	4"	4 1/2"	4 1/2"
M	3'-1"	3'-4 7/8"	3'-9 7/8"
N	8'-10 3/8"	3'-4 3/8"	3'-9 3/8"
P	1'-1 3/8"	6'-4 7/8"	7'-6 1/8"
Q	6'-3 1/8"	5'-2 5/8"	7'-5 1/8"
R	6'-0 1/8"	6'-8 7/8"	7'-7 1/8"
S	6'-0 1/8"	6'-9 7/8"	7'-7 1/8"
T	8'-0 1/8"	6'-9 7/8"	7'-7 1/8"
U	8'-0 1/8"	6'-9 7/8"	7'-7 1/8"
V	8'-0 1/8"	6'-9 7/8"	7'-7 1/8"
W	5'-8 1/8"	6'-11 3/8"	7'-8 1/8"
A1	TOP	TOP	TOP
B1	BOT.	TOP	TOP
C1	BOT.	BOT.	BOT.
D1	BOT.	TOP	TOP
E1	TOP	TOP	TOP
F1	6 1/2"	6"	5 3/4"
G1	5 1/2"	6"	5 3/4"
H1	4 3/4"	6"	5 3/4"
J1	4 3/8"	6"	6"
K1	5 3/8"	6"	6"
L1	5 1/2"	6"	5 3/4"
M1	5 1/8"	5 3/8"	5 3/4"
N1	6 1/4"	6"	5 3/4"
P1	9 1/2"	12 3/8"	11"
Q1	9 1/2"	11"	11"

DWG. NO. 9-65			
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
F.A.L. 74	81-1HVBR	ROCK ISLAND	2-3
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT NO.	



SECTION F-F
SCALE: 3/4" = 1'-0"



SECTION G-G
SCALE: 3/4" = 1'-0"

SOLE R. SCHEDULE				
PIER	A2	B2	L1	L2
2 S.B. E. BRG.	9 1/2"	9 1/2"	2"	3 1/4"
2 S.B. W. BRG.	5 1/4"	9 1/2"	2"	3 1/4"
3 S.B. E. BRG.	11"	11"	2 3/4"	3 3/4"
3 S.B. W. BRG.	12 3/8"	12 3/8"	2 3/4"	3 3/4"
4 S.B. E. BRG.	11"	11"	2 3/4"	3 3/4"
4 S.B. W. BRG.	11"	11"	2 3/4"	3 3/4"

NOTES
WORK THIS DWG WITH DWGS. 9-58 THRU 9-68
ALL STIFFERS & GIRDER WEBS TO BE VERTICAL
FOR FIELD SPLICE DETAILS, SEE DWG. 9-67

CROSS GIRDERS AT PIERS
2 (S.B.), 3 (S.B.) AND 4 (S.B.)
F.A.L. 74-SECTION 81-1HVBR
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE AS NOTED DATE



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME: 0810178-A0321-002-Contract AB Demo_Rasters.brg
MODEL: 48 Contract AB

USER NAME: ksnider
DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
CHECKED: AJK
PLOT DATE: 1/18/2017

DESIGNED: AWH
CHECKED: AJK
DRAWN: KMS
CHECKED: AJK
REVISED: -
REVISED: -
REVISED: -
REVISED: -

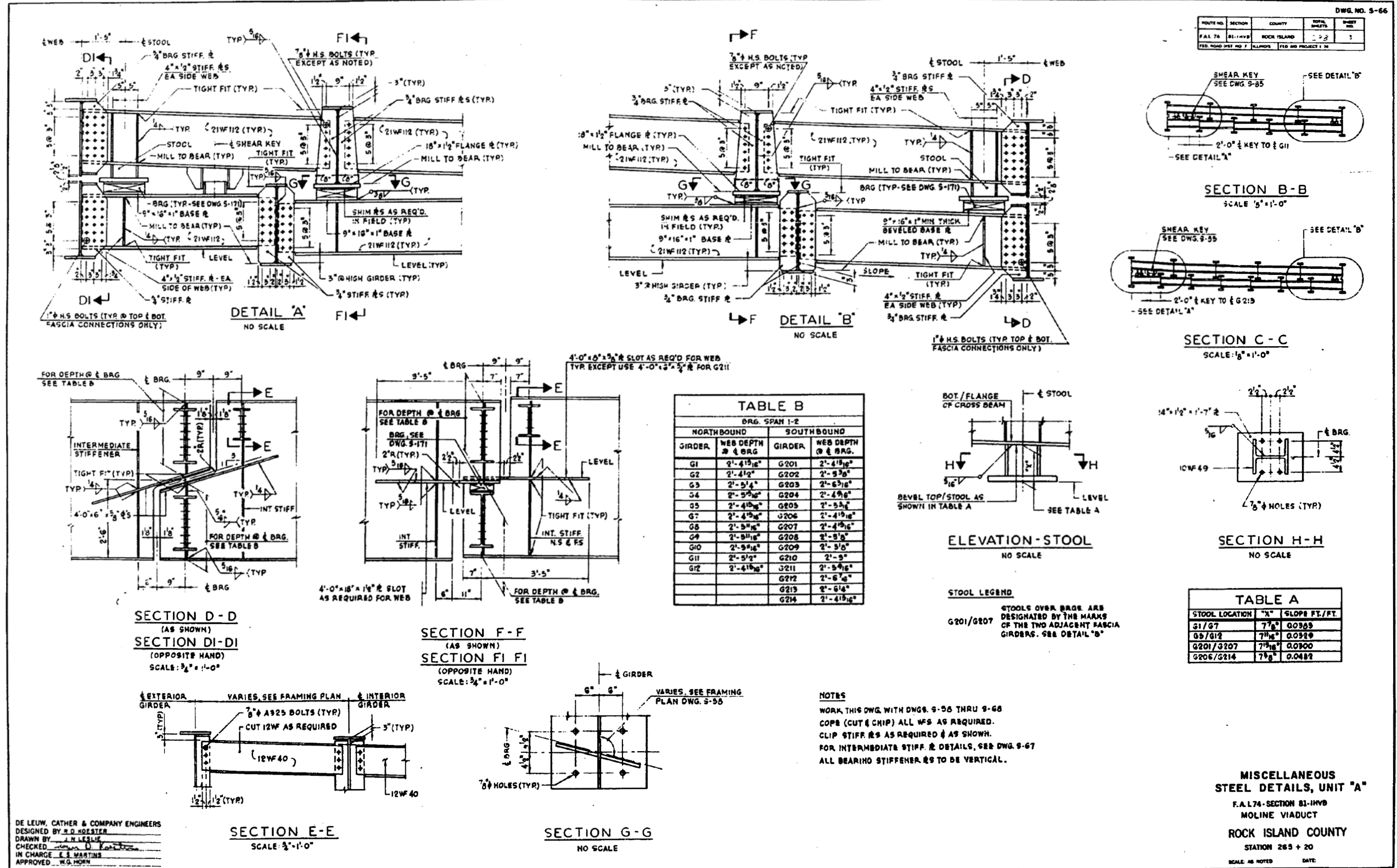
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX57 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVBR	ROCK ISLAND	1504	676
				CONTRACT NO. 64C08

ILLINOIS FED. AID PROJECT



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME =
 0810178-A0321-002-Contract AB Demo-Rasters.brg

MODEL:
 49 Contract AB

USER NAME = ksnider
 PLOT SCALE =
 PLOT DATE = 1/18/2017

DESIGNED - AWH
 CHECKED - AJK
 DRAWN - KMS
 CHECKED - AJK

REVISED -
 REVISED -
 REVISED -
 REVISED -

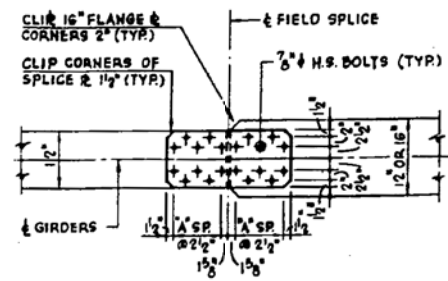
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

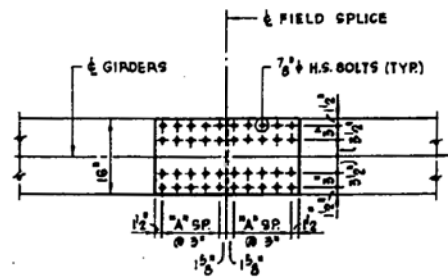
SHEET NO. SX58 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	677
CONTRACT NO. 64C08				

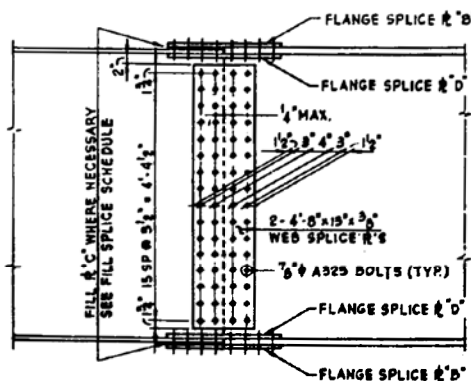
ILLINOIS FED. AID PROJECT



PLAN - FLANGE SPLICES
(AT SPLICE LINES 2, 54 & 55)

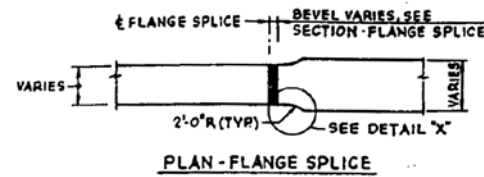


PLAN - FLANGE SPLICES
ALL SPLICE LINES IN UNIT "A" EXCEPT 2, 54 & 55

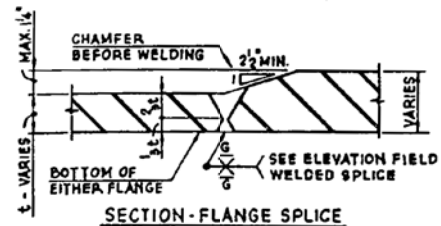


ELEVATION - BOLTED FIELD SPLICE
BOLTED FIELD SPLICE DETAILS
NO SCALE

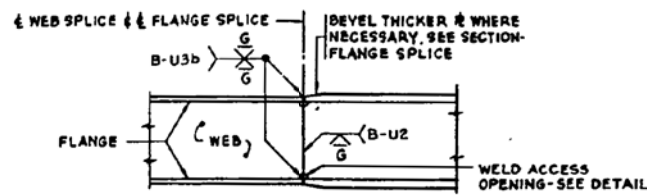
DE LEUW, CATHY & COMPANY ENGINEERS
DESIGNED BY: S.D. ROSETH
DRAWN BY: J.R. LEBLANC
CHECKED: J.M. ROSETH
IN CHARGE: E.E. MARTINEZ
APPROVED: W.G. MORRIS



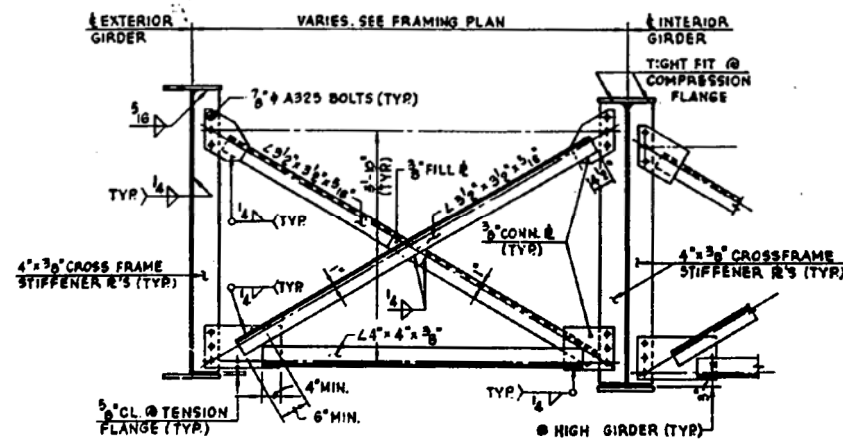
PLAN - FLANGE SPLICE



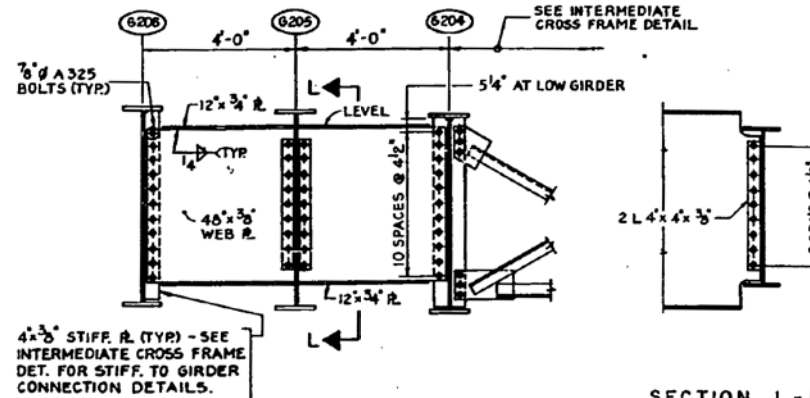
SECTION - FLANGE SPLICE



ELEVATION - FIELD WELDED SPLICE
FIELD WELDED SPLICE DETAILS
NO SCALE

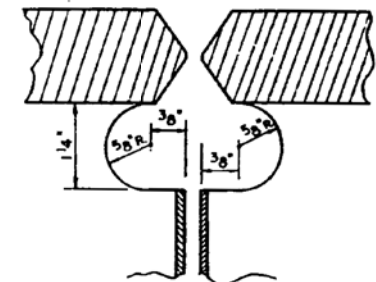


INTERMEDIATE CROSS FRAME DETAIL
SCALE: 3/4" = 1'-0"

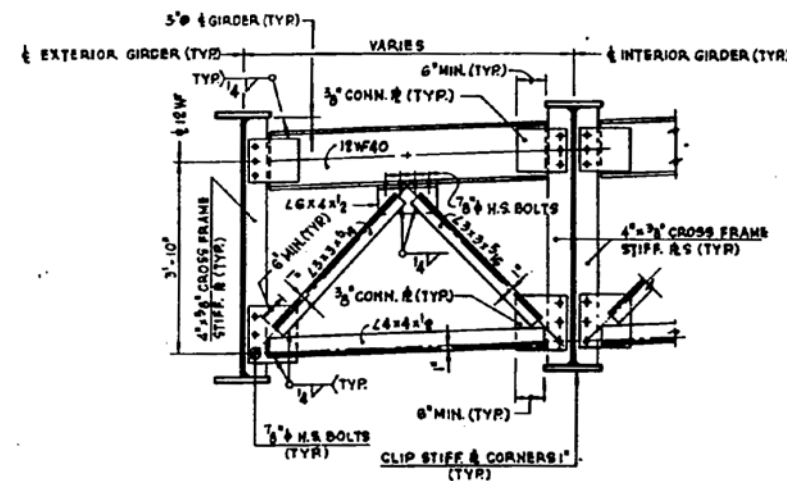


SECTION K-K (SEE DWG. S-5B)
SCALE: 1/2" = 1'-0"

SECTION L-L
SCALE: 1/2" = 1'-0"



WELD ACCESS OPENING DETAIL
NO SCALE (TYPICAL)



TYP. END CROSS FRAME
AT PIER A & PIER B - NO SCALE

FIELD SPLICE SCHEDULE				
GIRDERS	SP. LINE	A	B	C
G2 THRU G4	1 & 1A	4	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G5 THRU G11	2	4	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G6 THRU G11	3	3	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G8 THRU G11	4 & 5	4	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G8 THRU G11	6	3	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G8 THRU G11	7	2	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G202 THRU G208	52 & 53	4	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G205 THRU G213	54 & 55	4	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G208 THRU G213	56 & 57	4	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"
G208 THRU G213	58 & 59	3	16" x 1/2" x 2'-0"	16" x 1/2" x 1'-3"

MISCELLANEOUS
STEEL DETAILS, UNIT "A"
F.A.L.74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

REVISOR: JULY 20, 1975 SCALE: AS NOTED DATE



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	678
CONTRACT NO. 64C08				

SHEET NO. SX59 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT

FILE NAME: 0810178-A0321-002-Contract AB Demo_Rasters.brg

MODEL: 50 Contract AB

USER NAME: ksnider

PLOT SCALE:

PLOT DATE: 1/18/2017

DESIGNED: AWH

CHECKED: AJK

DRAWN: KMS

CHECKED: AJK

REVISED:

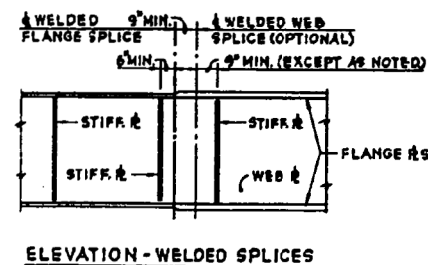
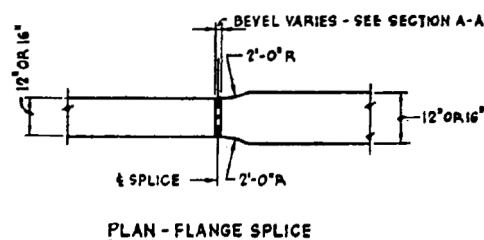
REVISED:

REVISED:

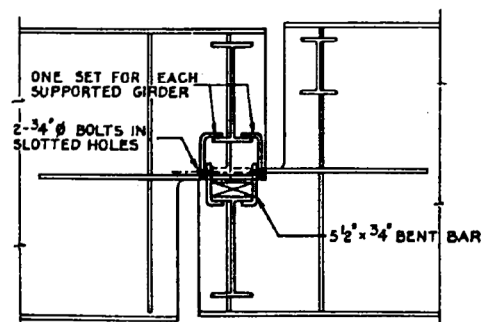
REVISED:

TOP OF WEB ELEVATIONS																
UNIT A N.S.							UNIT A S.B.									
LOCATION	GIRDER	G1	G2	G3	G4	G5	LOCATION	GIRDER	G201	G202	G203	G204	G205	G206		
PIER LINE A		612.307	612.307	612.307	612.307	612.307	PIER LINE B		612.036	612.201	612.366	612.532	-	612.697		
SPLICE LINE # 1		610.764	610.900	611.032	611.165	611.289	*DIAPHRAGM IN SPAN B-1						612.388	-		
PIER 1 N.B.		610.581	610.827	610.969	611.110	611.246										
SPLICE LINE # 1A		610.597	610.754	610.905	611.056	611.202	SPLICE LINE # 52		610.562	610.777	610.992	611.208	611.429	611.718		
EXP. BEARING		609.337	609.671	609.957	610.242	610.516	PIER 1 S.B.		610.502	610.720	610.938	611.155	611.388	611.705		
							SPLICE LINE # 53		610.442	610.663	610.883	611.103	611.346	611.691		
LOCATION	GIRDER	G7	G8	G9	G10	G11	EXP. BEARING		609.819	610.066	610.313	610.560	610.897	611.295		
*EXP. BEARING		609.338	609.629	609.855	610.081	610.307	LOCATION	GIRDER	G207	G208	G209	G210	G211	G212	G213	G214
SPLICE LINE # 2		609.189	609.408	609.725	609.982	610.180	*EXP. BEARING		609.819	610.003	610.180	610.356	610.525	610.739	611.023	611.294
PIER 2 N.B.		609.122	609.436	609.665	609.894	610.123	SPLICE LINE # 54		609.710	609.886	610.064	610.243	610.419	610.628	610.903	611.182
SPLICE LINE # 3		609.055	609.374	609.606	609.836	610.065	PIER 2 S.B.		609.676	609.849	610.029	610.209	610.387	610.595	610.867	611.148
SPLICE LINE # 4		607.987	608.417	608.700	608.946	609.192	SPLICE LINE # 55		609.642	609.812	609.993	610.175	610.366	610.563	610.830	611.113
PIER 3 N.B.		607.935	608.371	608.658	608.905	609.153	SPLICE LINE # 56		609.137	609.341	609.543	609.745	609.947	610.146	610.348	610.540
SPLICE LINE # 5		607.884	608.325	608.617	608.865	609.113	PIER 3 S.B.		609.113	609.318	609.522	609.725	609.928	610.128	610.327	610.523
SPLICE LINE # 6		607.425	607.738	608.035	608.299	608.564	SPLICE LINE # 57		609.089	609.296	609.501	609.705	609.910	610.110	610.309	610.505
PIER 4 N.B.		607.401	607.716	608.011	608.278	608.544	SPLICE LINE # 58		608.686	608.913	609.140	609.366	609.588	609.798	610.008	610.217
SPLICE LINE # 7		607.377	607.695	607.988	608.255	608.523	PIER 4 S.B.		608.662	608.891	609.118	609.346	609.569	609.780	609.991	610.201
*EXP. BEARING		607.314	607.647	607.938	608.207	608.475	SPLICE LINE # 59		608.638	608.868	609.097	609.326	609.550	609.762	609.976	610.185
							EXP. BEARING		608.260	608.512	608.765	609.018	609.257	609.487	609.718	609.949

* SEE DETAIL "A" THIS DWG. FOR CLARIFICATION OF BRG. OR DIAPHRAGM



WELDED SHOP SPLICE DETAILS
NO SCALE

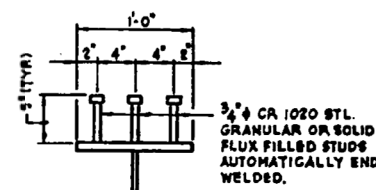


HOLD DOWN ASSEMBLY DETAIL
FOR INDICATION OF WHERE THESE
MAY BE REQUIRED SEE DWG. S-171.
SCALE: 3/4" = 1'-0"

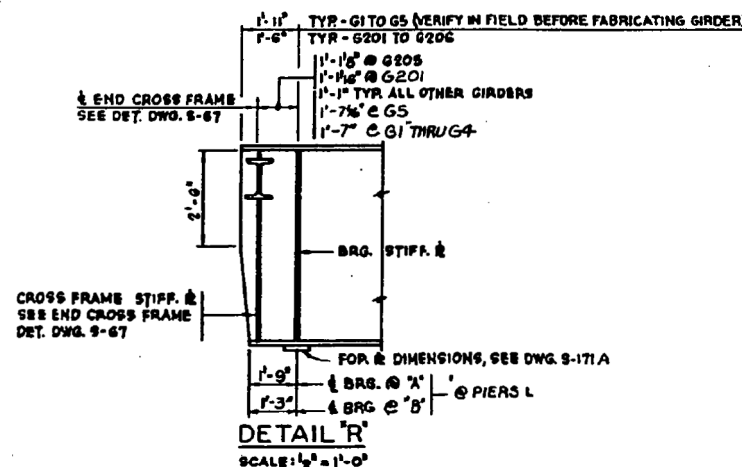
DE LEIJ, CATHER & COMPANY ENGINEERS
DESIGNED BY R.D. ROBERTS
DRAWN BY J.M. KELLY
CHECKED BY J.M. KELLY
IN CHARGE J.M. MARTINE
APPROVED W.G. HORN



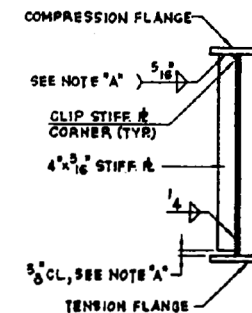
DETAIL "A"
NO SCALE



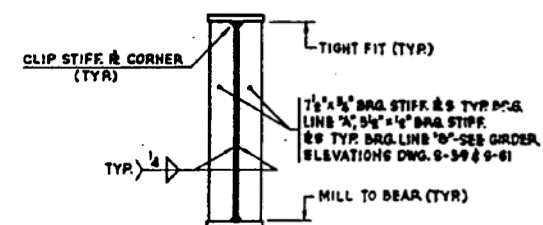
SHEAR CONNECTOR DETAIL
SCALE: 1/2" = 1'-0"



DETAIL "R"
SCALE: 1/2" = 1'-0"



INTERMEDIATE STIFFENER DETAIL
NO SCALE



BEARING STIFFENER DETAIL
NO SCALE

NOTES
WORK THIS DWG. WITH DWGS. S-58 THRU S-67

MISCELLANEOUS
STEEL DETAILS, UNIT "A"
F.A.174-SECTION 81-111V8
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

25 REVISED JULY 25, 1975
SOLD AS NOTED
DATE

9-65



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
0810178-A0321-002-Contract AB Demo-Rasters.brg

MODEL:
51 Contract AB

USER NAME : ksnider
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

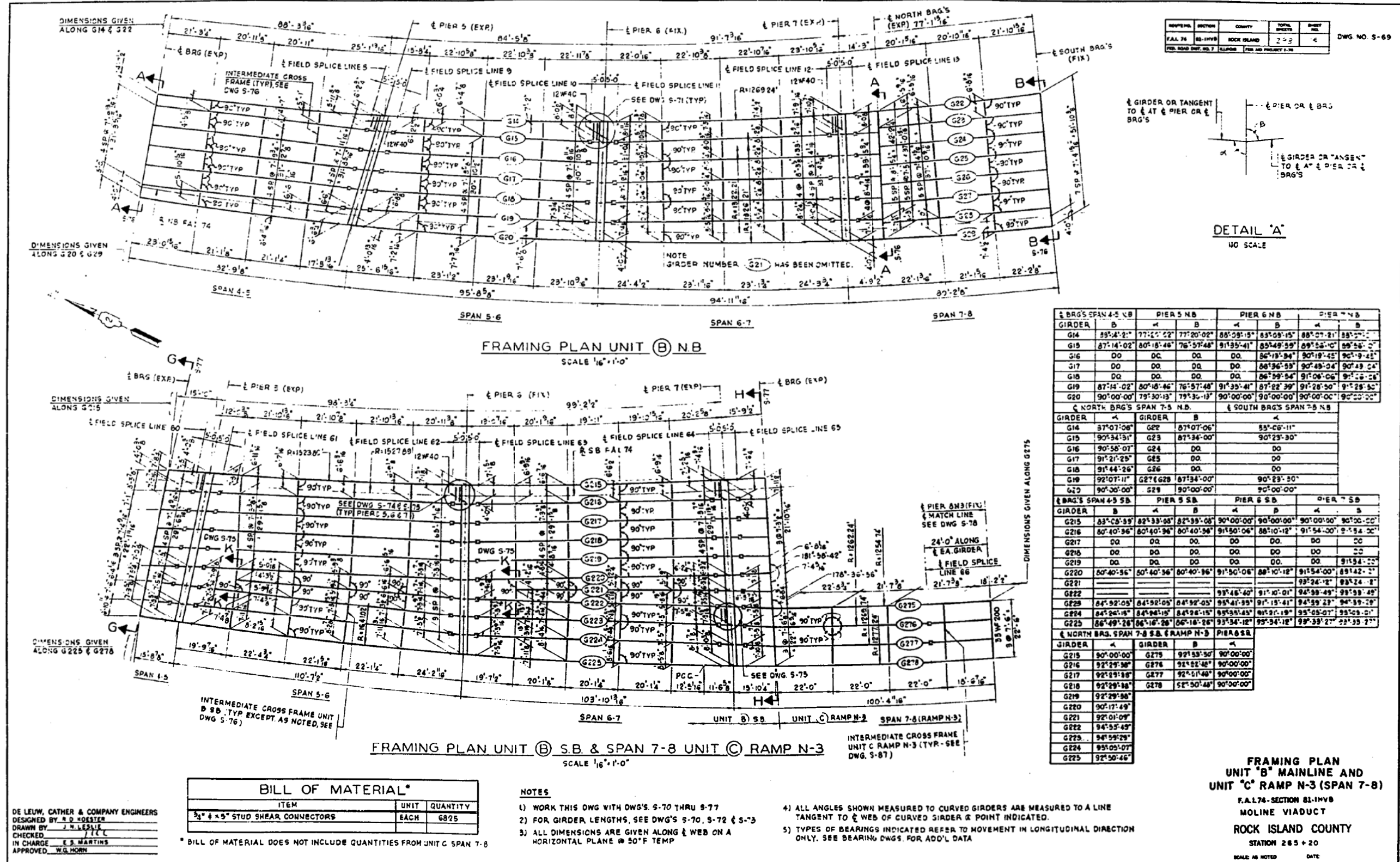
SHEET NO. SX60 OF SX150 SHEETS

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	679
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

c:\pwise_work\do_not_delete\dms04543\0810178-A0321-002-Contract AB Demo-Rasters.brg

2:40:20 PM

1/18/2017



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
0810176-A0321-002-Contract AB Demo-Rasters.brg

MODEL:
52 Contract AB

USER NAME : ksnider
DESIGNED BY : AWH
DRAWN BY : J. H. LESUE
CHECKED : E. S. MARTINS
IN CHARGE : H. G. MOON

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK

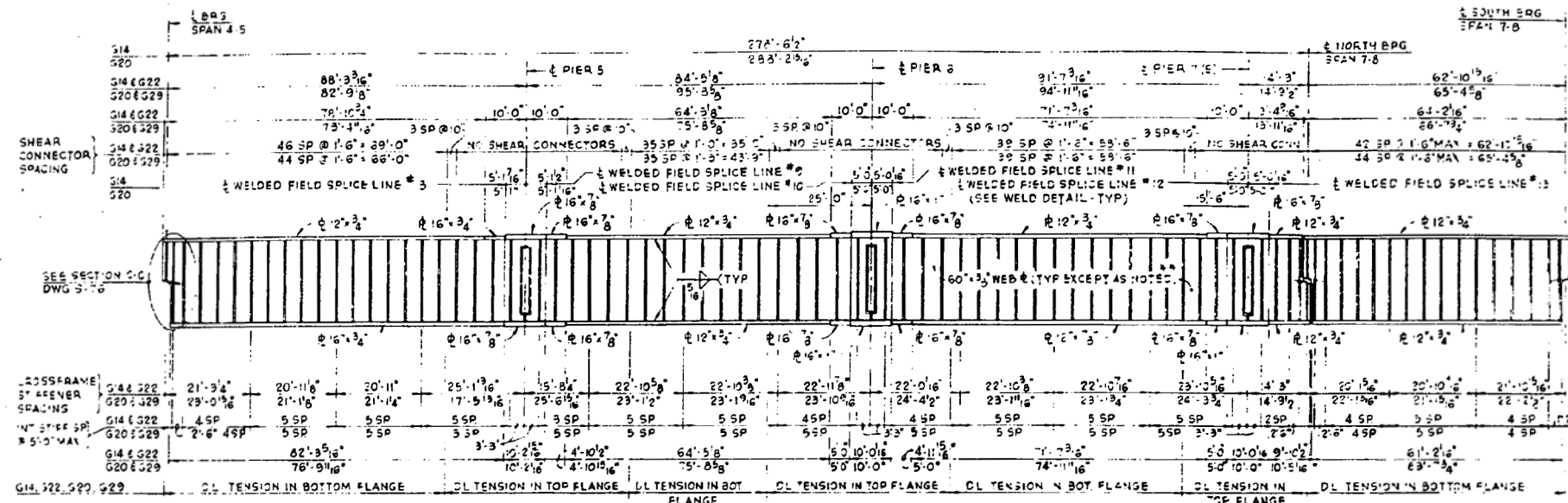
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX61 OF SX150 SHEETS

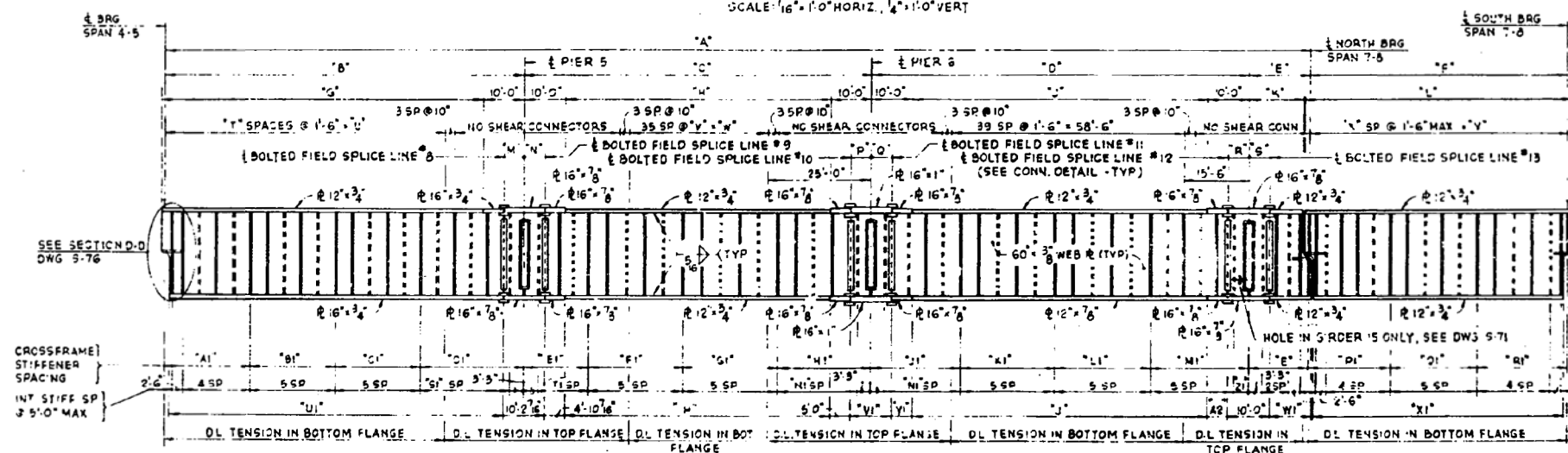
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVB)	ROCK ISLAND	1504	680
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				



NOTE:
CROSSFRAME & INTERMEDIATE STIFFENERS
ON INTERIOR FACE OF GIRDERS G14, G22, G20 & G29 ONLY.

ELEVATION OF GIRDERS G14, G22, G20 & G29

USE 60% WEB IN SECTION OVER PIERS
BETWEEN SPLICES, SEE DETAIL C, DWG S-53



NOTE:
ALTERNATE INTERMEDIATE
STIFFENERS N.F. & F.F. AS SHOWN FOR
GIRDERS G15 THRU G19 & G23 THRU G28 ONLY

ELEVATION OF GIRDERS G15 THRU G19 & G23 THRU G28

SCALE 1/8"=1'-0" HORIZ., 1/4"=1'-0" VERT.

TABLE OF PROPERTIES - INTERIOR GIRDERS

LOCATION	0.40 SPAN 4-5	0.50 SPAN 5-6	0.50 SPAN 6-7	0.50 SPAN 7-8
STEEL SECTION				
I _g	25936	32692	29358	36521
S _{xs}	789	1059	760	1176
S _{bs}	908	1059	760	1176
COMPOSITE SECTION				
I _c	61677	55200	57861	55200
S _{xc}	5523	6550	6641	6586
S _{bc}	7212	7644	7119	7044

TABLE OF MOMENTS (FT KIPS) - INTERIOR GIRDERS

LOADING	0.40 SPAN 4-5	0.50 SPAN 5-6	0.50 SPAN 6-7	0.50 SPAN 7-8
DEAD LOAD	593	-873	-849	421
S.D.L.	168	-202	-202	134
LIVE LOAD	735	-547	-634	356
IMPACT	178	-132	-152	206
TOTAL COMP	1081	-1554	-1638	904
TOTAL STEEL	593	-873	-849	421

TABLE OF REACTIONS (KIPS)
INTERIOR GIRDERS

LOADING	0.40 SPAN 4-5	0.50 SPAN 5-6	0.50 SPAN 6-7	0.50 SPAN 7-8
DEAD LOAD	33.1	101.0	98.1	99.4
S.D.L.	9.8	27.9	27.2	26.8
LIVE LOAD	49.1	296	293	290
IMPACT	11.8	16.8	17.6	17.2
TOTAL	103.8	265.3	262.9	264.0

GIRDER ELEVATIONS
G-14 THRU G-20 AND
G-22 THRU G-29

F.A.I. 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

TABLE OF DIMENSIONS AND SPACINGS

GIRDER	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
G15	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G16	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G17	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G18	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G19	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G20	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G21	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G22	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G23	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G24	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G25	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G26	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G27	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G28	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"
G29	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"

NOTES
ALL DIMENSIONS ARE GIVEN ALONG & WEB ON A HORIZONTAL PLANE & 50°F TEMP
ALL STRUCTURAL STEEL SHALL BE ASTM DESIGNATION A-36
WORK THIS DWG WITH DWG S-52, S-71, S-76 & S-77
FOR WELDED FIELD SPLICE DETAIL, SEE DWG S-72
FOR SHOP SPLICE DETAIL, SEE DWG S-57
ALL BRG STIFF. & CROSSFRAME STIFF TO BE SET VERTICAL



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

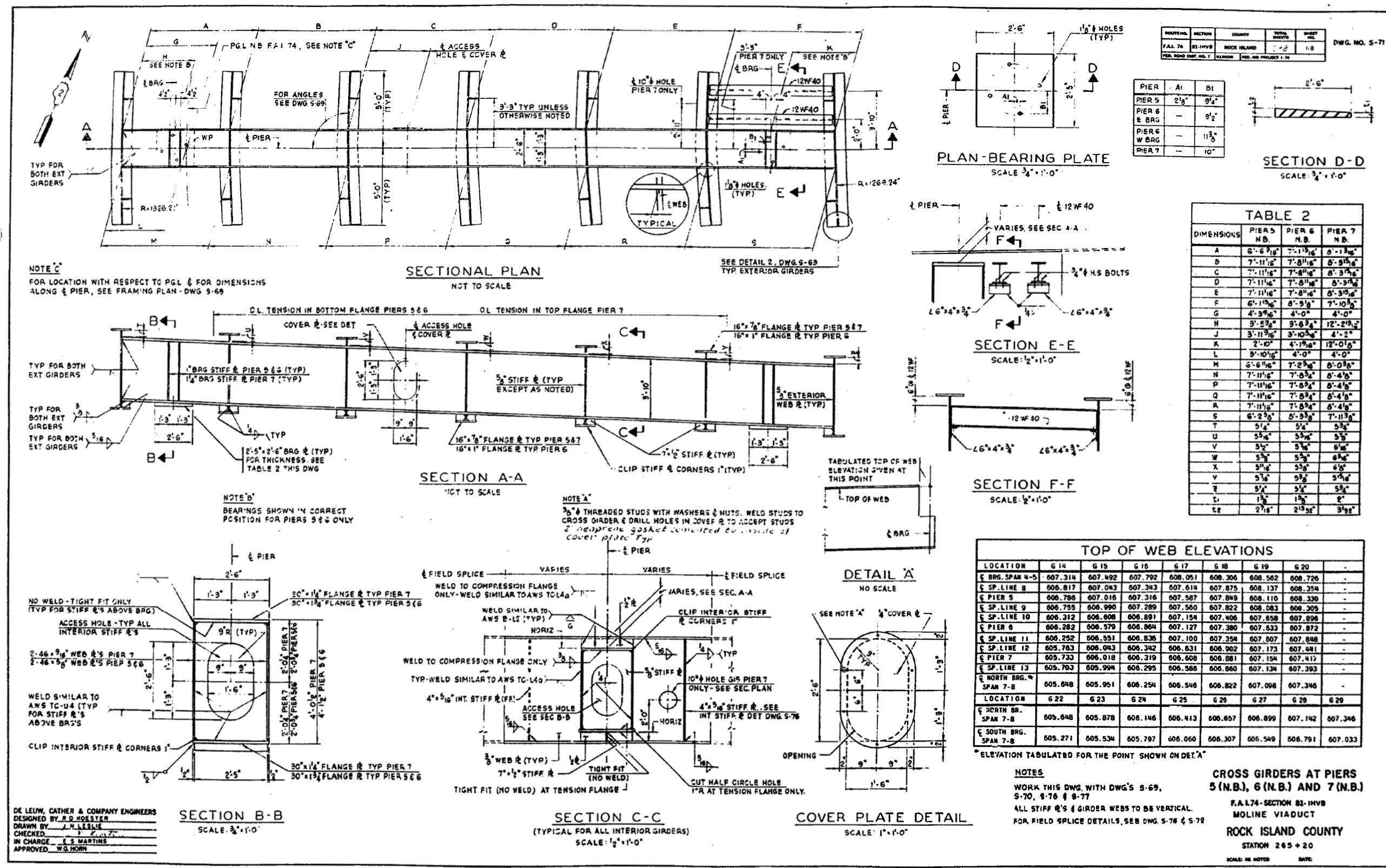
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	681
				CONTRACT NO. 64C08
ILLINOIS FED. AID PROJECT				

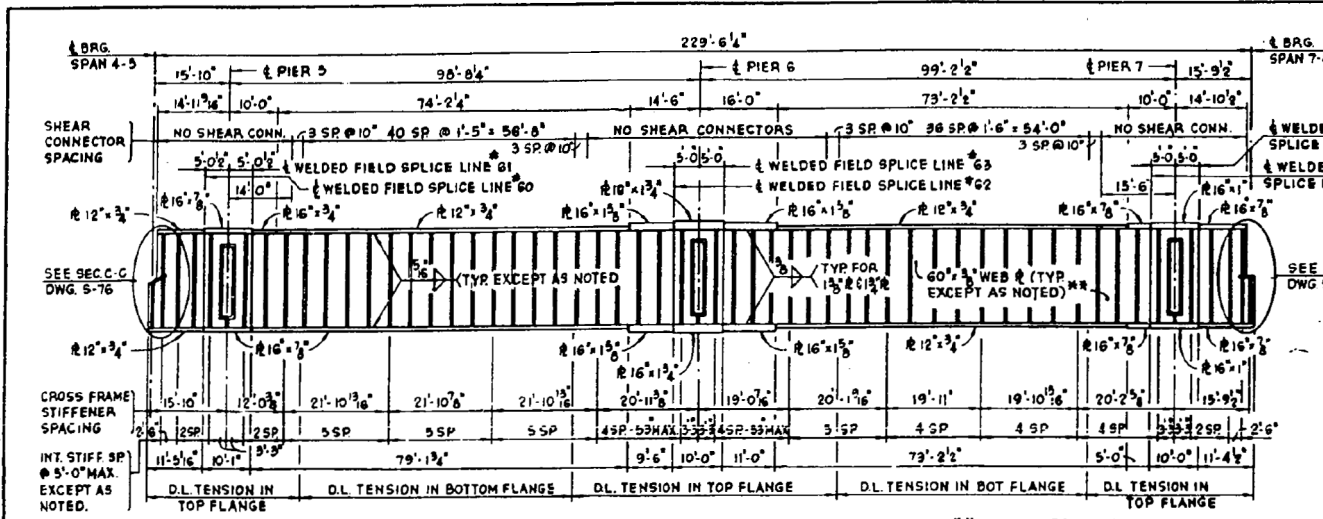
FILE NAME :
0810178-AB321-002-Contract AB Demo-Rasters.brg
MODEL:
53 Contract AB

USER NAME : ksnider
DESIGNED : AWH
CHECKED : AJK
PLOT SCALE :
DRAWN : KMS
PLOT DATE : 1/18/2017
CHECKED : AJK
REVISED :

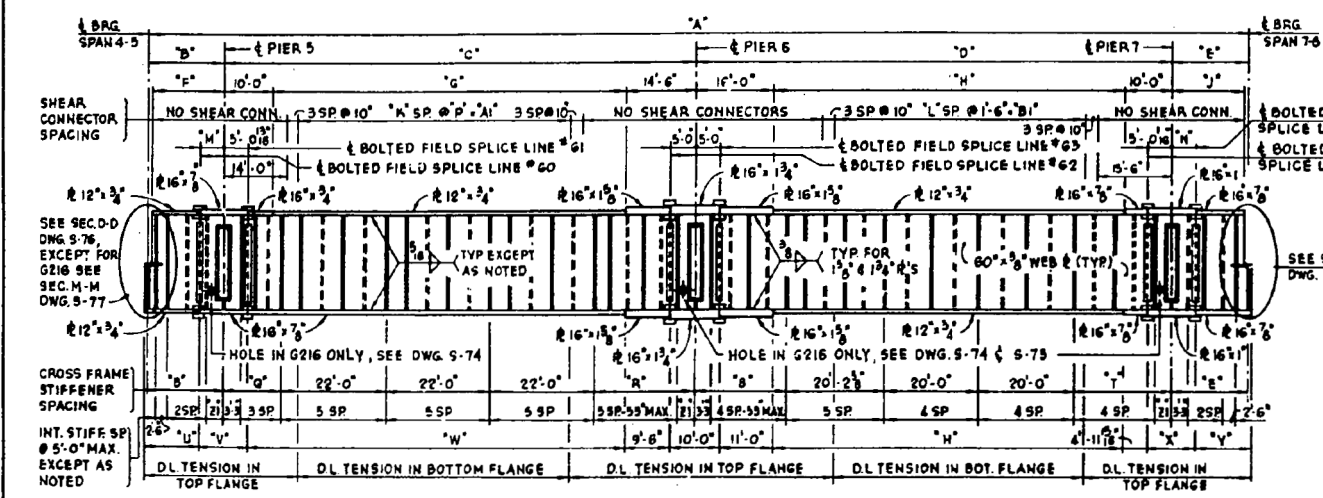
DESIGNED : AWH
CHECKED : AJK
PLOT SCALE :
DRAWN : KMS
PLOT DATE : 1/18/2017
CHECKED : AJK
REVISED :

SHEET NO. SX62 OF SX150 SHEETS





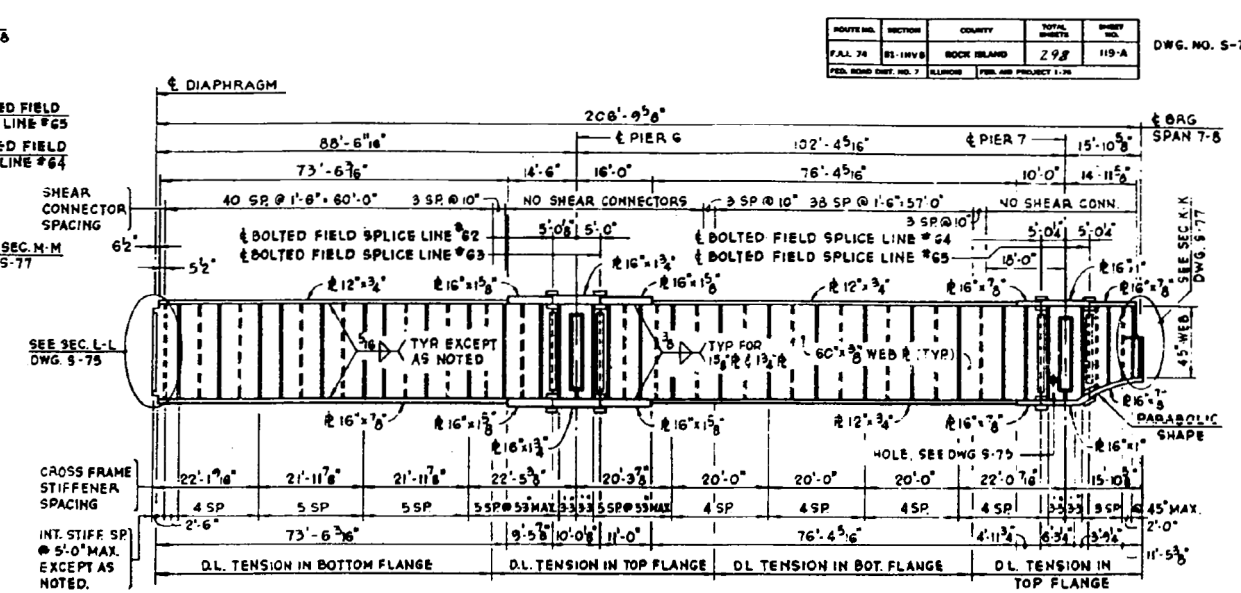
ELEVATION OF GIRDER G215
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



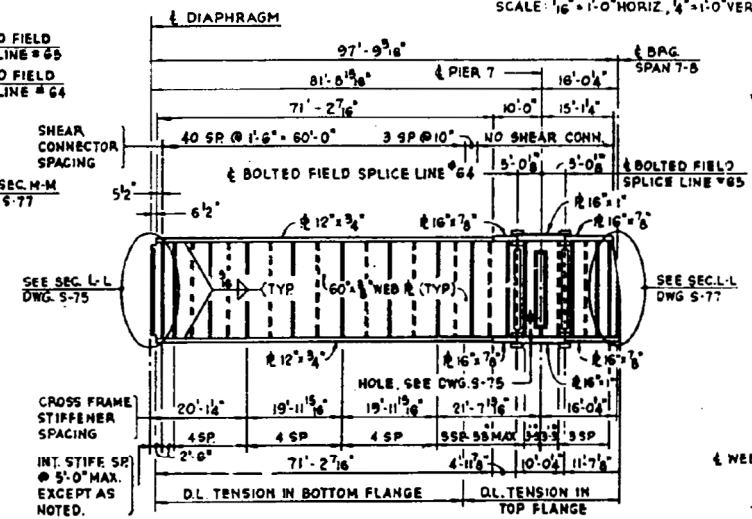
ELEVATION OF GIRDERS G216 THRU G220
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.

TABLE OF DIMENSIONS AND SPACINGS												
GIRDER	A	B	C	D	E	F	G	H	J	K	L	M
G216	231'-7 1/2"	19'-11 1/2"	100'-1 1/2"	99'-8"	19'-10 1/2"	19'-0 1/2"	79'-7 1/2"	79'-8"	14'-11 1/2"	40	36	5'-1"
G217	233'-6 1/2"	18'-11 1/2"	101'-6 1/2"	100'-1 1/2"	19'-11 1/2"	19'-0 1/2"	77'-0 1/2"	74'-1 1/2"	15'-0 1/2"	41	36	5'-0 1/2"
G218	235'-6 1/2"	15'-11 1/2"	102'-11 1/2"	100'-7 1/2"	18'-0 1/2"	18'-0 1/2"	78'-0 1/2"	74'-7 1/2"	15'-1 1/2"	40	36	5'-0 1/2"
G219	237'-6 1/2"	15'-11 1/2"	104'-4 1/2"	101'-1 1/2"	18'-1 1/2"	19'-0 1/2"	79'-10 1/2"	79'-10 1/2"	15'-2 1/2"	41	37	5'-0 1/2"
G220	239'-5 1/2"	15'-11 1/2"	105'-9 1/2"	101'-6 1/2"	18'-2 1/2"	19'-0 1/2"	81'-8 1/2"	79'-6 1/2"	15'-3 1/2"	42	37	5'-0 1/2"
GIRDER	N	P	Q	R	S	T	U	V	W	X	Y	Z
G216	9'-0 1/2"	1'-8"	19'-0 1/2"	21'-0 1/2"	19'-1 1/2"	20'-9 1/2"	11'-5 1/2"	10'-1 1/2"	80'-8 1/2"	10'-0 1/2"	11'-5 1/2"	3'-8"
G217	9'-0 1/2"	1'-5"	14'-8"	21'-5 1/2"	19'-4 1/2"	20'-6 1/2"	11'-3 1/2"	10'-1 1/2"	80'-11 1/2"	10'-0 1/2"	11'-6 1/2"	3'-8"
G218	9'-0 1/2"	1'-8"	15'-3 1/2"	21'-6 1/2"	19'-7 1/2"	20'-9 1/2"	11'-6 1/2"	10'-1 1/2"	82'-4 1/2"	10'-0 1/2"	11'-7 1/2"	3'-8"
G219	9'-0 1/2"	1'-8"	16'-7 1/2"	21'-9"	19'-9 1/2"	21'-0 1/2"	11'-5 1/2"	10'-1 1/2"	84'-9 1/2"	10'-0 1/2"	11'-8 1/2"	3'-8"
G220	9'-0 1/2"	1'-6"	17'-10 1/2"	21'-11 1/2"	20'-0 1/2"	21'-3 1/2"	11'-5 1/2"	10'-1 1/2"	86'-3 1/2"	10'-0 1/2"	11'-9 1/2"	3'-8"

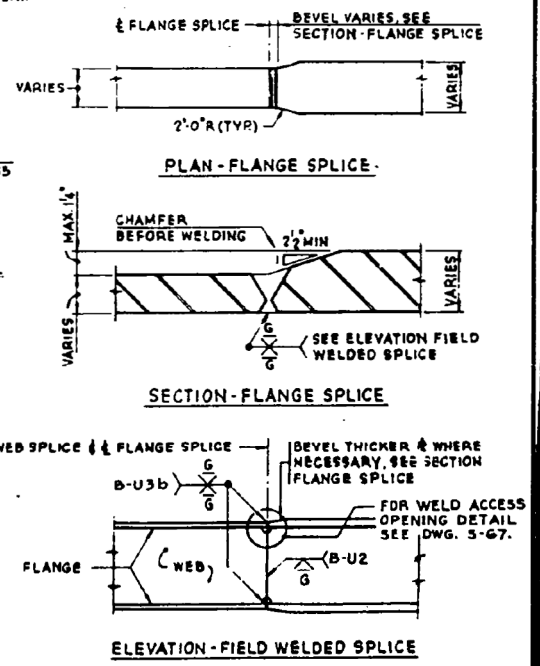
DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY R.D. ROESTER
DRAWN BY J.N. LESLIE
CHECKED BY J.D. LESLIE
IN CHARGE R.E. WARTING
APPROVED W.G. MOORE



ELEVATION OF GIRDER G222
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



ELEVATION OF GIRDER G221
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



FIELD WELDED SPLICE DETAILS
GIRDER ELEVATIONS
G-215 THRU G-222
F.A.L. 74, SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 263 + 20
SCALE: AS NOTED
DATE:

NOTES
WORK THIS DWG. WITH DWG'S S-69, S-74, S-75, S-76, & S-77.
ALL STRUCTURAL STEEL SHALL BE A.S.T.M. DESIGNATION A-58.
ALL DIMENSIONS ARE GIVEN ALONG WEB ON A HORIZONTAL PLANE @ 50°F TEMP.
ALL BRG. & CROSSFRAME STIFFENER'S TO BE VERTICAL.
INTERMEDIATE STIFF. R'S ON INTERIOR FACE ONLY OF GIRDER G215
ALTERNATE INTERMEDIATE STIFF. R'S N.E. & S.E. AS SHOWN FOR GIRDERS G216 THRU G222
SPACE INTERMEDIATE STIFF. R'S TO CLEAR & WELDED SPLICES BY 9" MIN. EXCEPT AS NOTED.
FOR SHOP SPLICE DETAIL, SEE DWG. S-87

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME : 0810178-AB321-002-Contract AB Demo_Rasters.brg	USER NAME : ksnider	DESIGNED : AWH	REVISED :
MODEL : 55 Contract AB	PLOT SCALE :	CHECKED : AJK	REVISED :
	PLOT DATE : 1/18/2017	DRAWN : KMS	REVISED :
		CHECKED : AJK	REVISED :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HVB	ROCK ISLAND	1504	683
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

SHEET NO. SX64 OF SX150 SHEETS

c:\pwise\work\do_not_delete\dms04543\0810178-AB321-002-Contract AB Demo_Rasters.brg 2:46:16 PM 1/18/2017

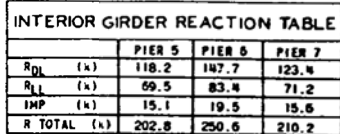
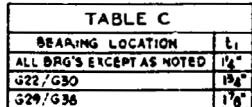


Diagram illustrating the top of the web and the tabulated top of the web. The diagram shows a cross-section of a box girder with a top flange and a vertical web. The top of the web is labeled "TOP OF WEB". The tabulated top of the web is labeled "TABULATED TOP OF WEB". The elevation given at this point is indicated by a vertical line and a horizontal line. The diagram also shows the "BRG. OR DIAPHRAGM" (Bearing Stiffener or Diaphragm) at the top of the web.

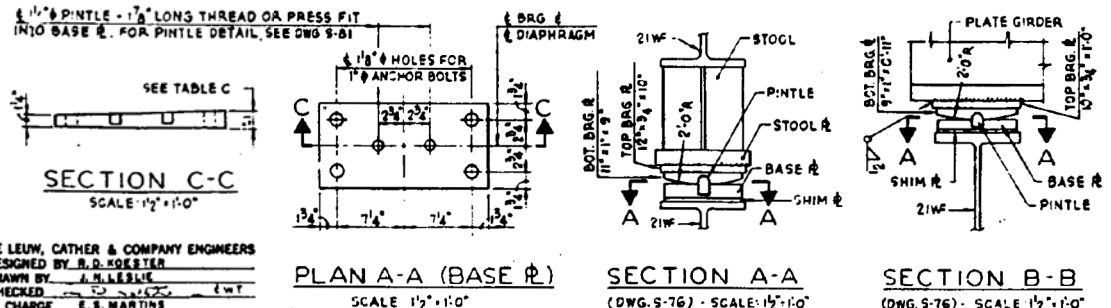
* ELEVATION TABULATED FOR THE POINT SHOWN ON DETAIL "A"

TABLE B									
SOUTHBOUND				NORTHBOUND					
BRG. SPAN 4-5		BRG. SPAN 7-8		SOUTH BRG. SPAN 7-8		NORTH BRG. SPAN 7-8		BRG. SPAN 4-5	
GIRDER	WEB DEPTH 0 & BRG.	GIRDER	WEB DEPTH 0 & BRG.	GIRDER	WEB DEPTH 0 & BRG.	GIRDER	WEB DEPTH 0 & BRG.	GIRDER	WEB DEPTH 0 & BRG.
G207	2'-4 3/8"	G215	2'-3 5/8"	G22	2'-4 5/8"	G14	2'-4 5/8"	G7	2'-4 5/8"
G208	2'-3 5/8"	G216	2'-3 5/8"	G23	2'-4 5/8"	G15	2'-4 5/8"	G8	2'-4 5/8"
G209	2'-4 7/8"	G217	2'-3 5/8"	G24	2'-5"	G16	2'-4 5/8"	G9	2'-4 5/8"
G210	2'-4 7/8"	G218	2'-3 5/8"	G25	2'-5 1/8"	G17	2'-4 5/8"	G10	2'-4 5/8"
G211	2'-3 5/8"	G219	2'-3 5/8"	G26	2'-5 1/8"	G18	2'-4 5/8"	G11	2'-3"
G212	2'-3 5/8"	G220	2'-3 5/8"	G27	2'-5 3/8"	G19	2'-3"	G12	2'-4 5/8"
G213	2'-5 1/2"	G221	1'-8"	G28	2'-5 3/8"	G20	2'-4 5/8"	G14	2'-4 5/8"
G214	2'-4 5/8"	G222	1'-8"	G29	2'-4 5/8"	G22	2'-4 5/8"	G15	2'-4 5/8"
G215	2'-4 5/8"	G224	1'-8"	G30	2'-4 5/8"	G23	2'-4 5/8"	G16	2'-4 5/8"
G216	2'-3 5/8"	G225	2'-10 5/8"	G31	2'-5 1/8"	G24	2'-5 1/8"	G17	2'-4 5/8"
G217	2'-5 1/8"	G226	2'-3 5/8"	G32	2'-5 3/8"	G25	2'-5 3/8"	G18	2'-4 5/8"
G218	2'-5 3/8"	G227	2'-3 5/8"	G33	2'-5 3/8"	G26	2'-4 5/8"	G19	2'-4 5/8"
G219	2'-5 3/8"	G228	2'-3 5/8"	G34	2'-5 1/8"	G27	2'-4 5/8"	G20	2'-4 5/8"
G220	2'-5 3/8"	G229	2'-3 5/8"	G35	2'-5 1/8"	G28	2'-4 5/8"	G21	2'-4 5/8"
G221	2'-5 3/8"	G230	2'-3 5/8"	G36	2'-5 3/8"	G29	2'-4 5/8"		
G224	2'-5 3/8"	G231	2'-3 5/8"	G37	2'-5 3/8"				
G225	2'-4 5/8"	G232	1'-8"	G38	2'-4 5/8"				
		G276	1'-8"						
		G277	1'-8"						
		G278	1'-10 3/8"						

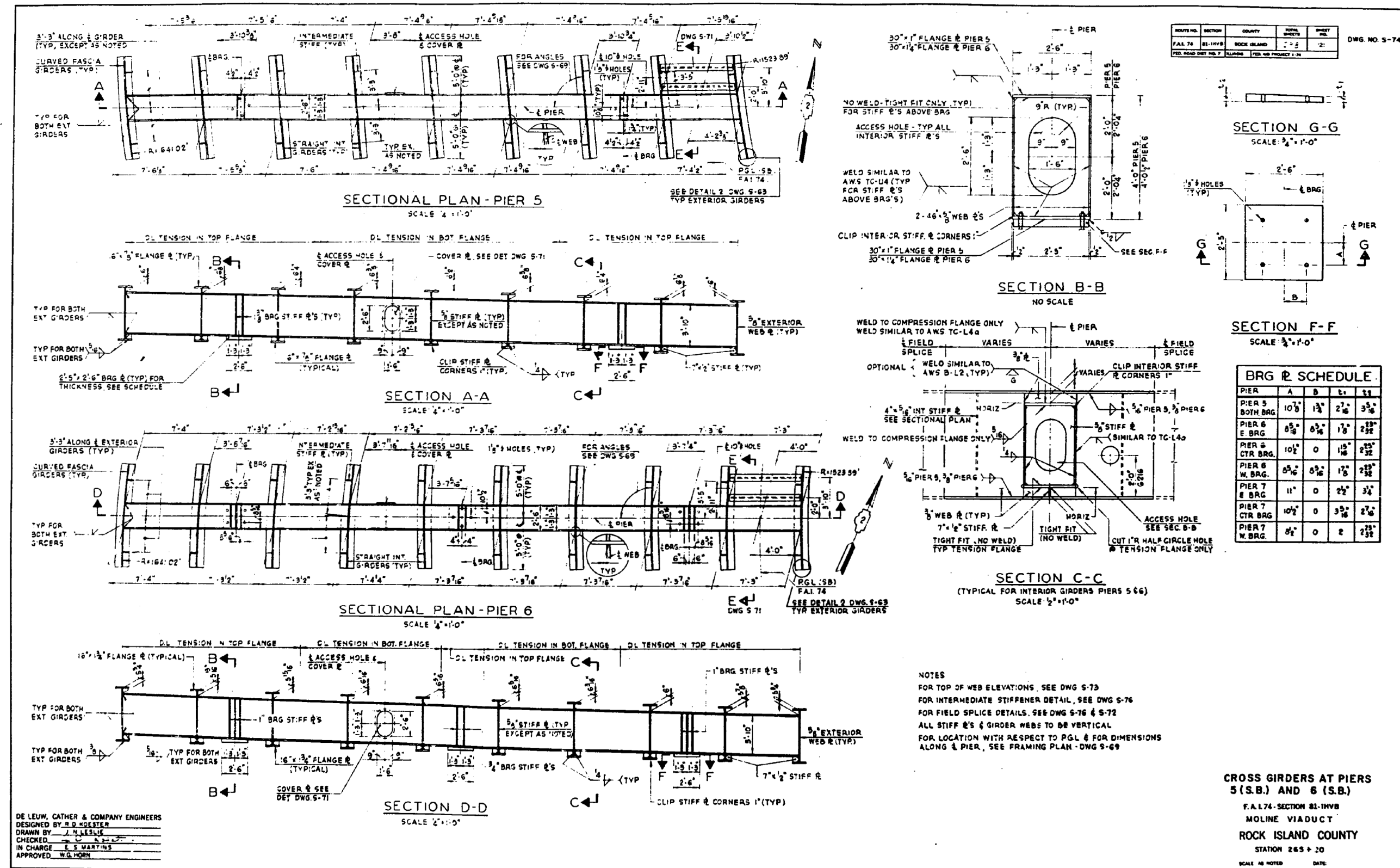
F.A. 174-SECTION 81- INVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

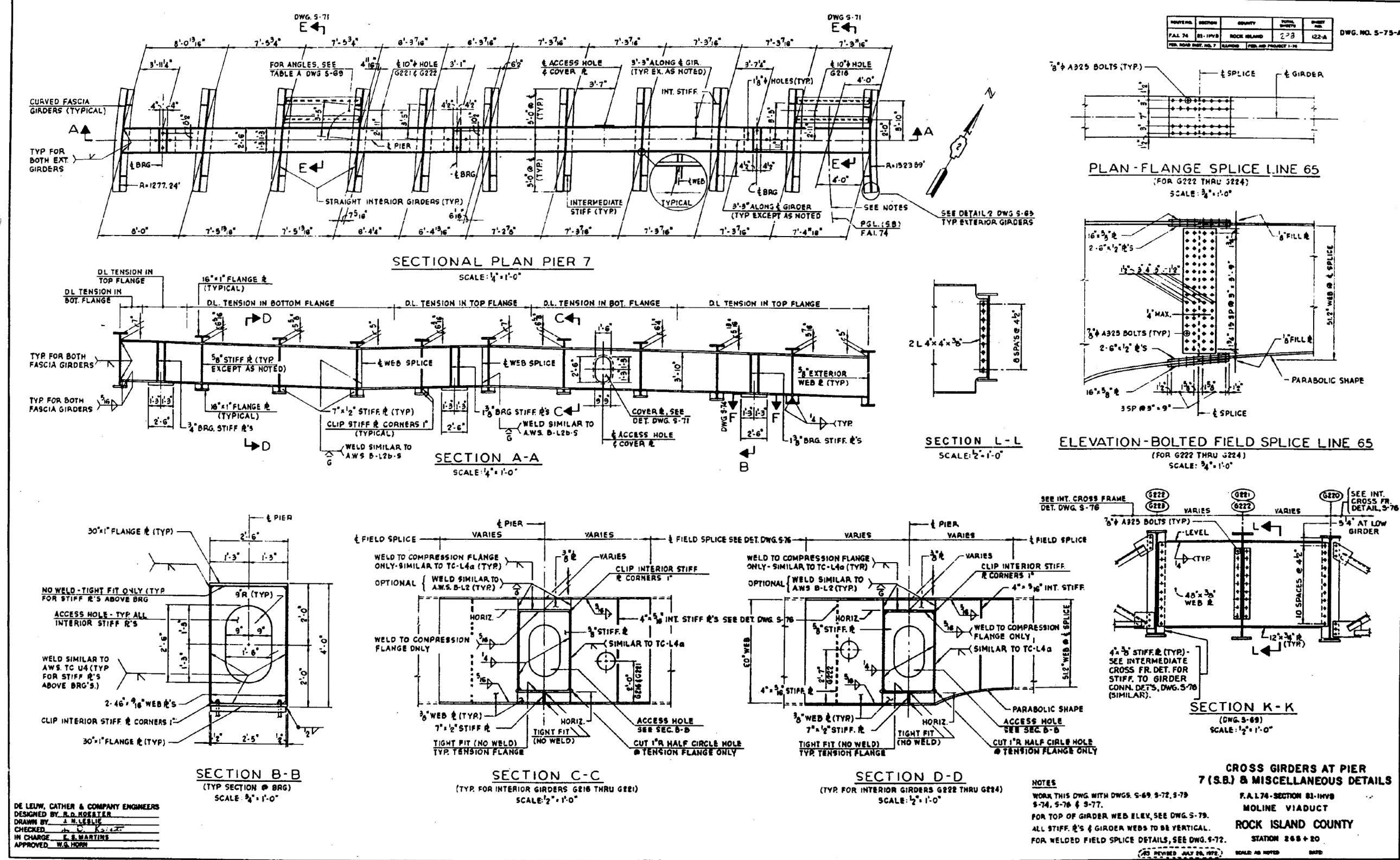


NOTE
ALTERNATE INTERMEDIATE STIFFENERS N.S. & P.S.
AS SHOWN FOR GIRDERS G223 & G224

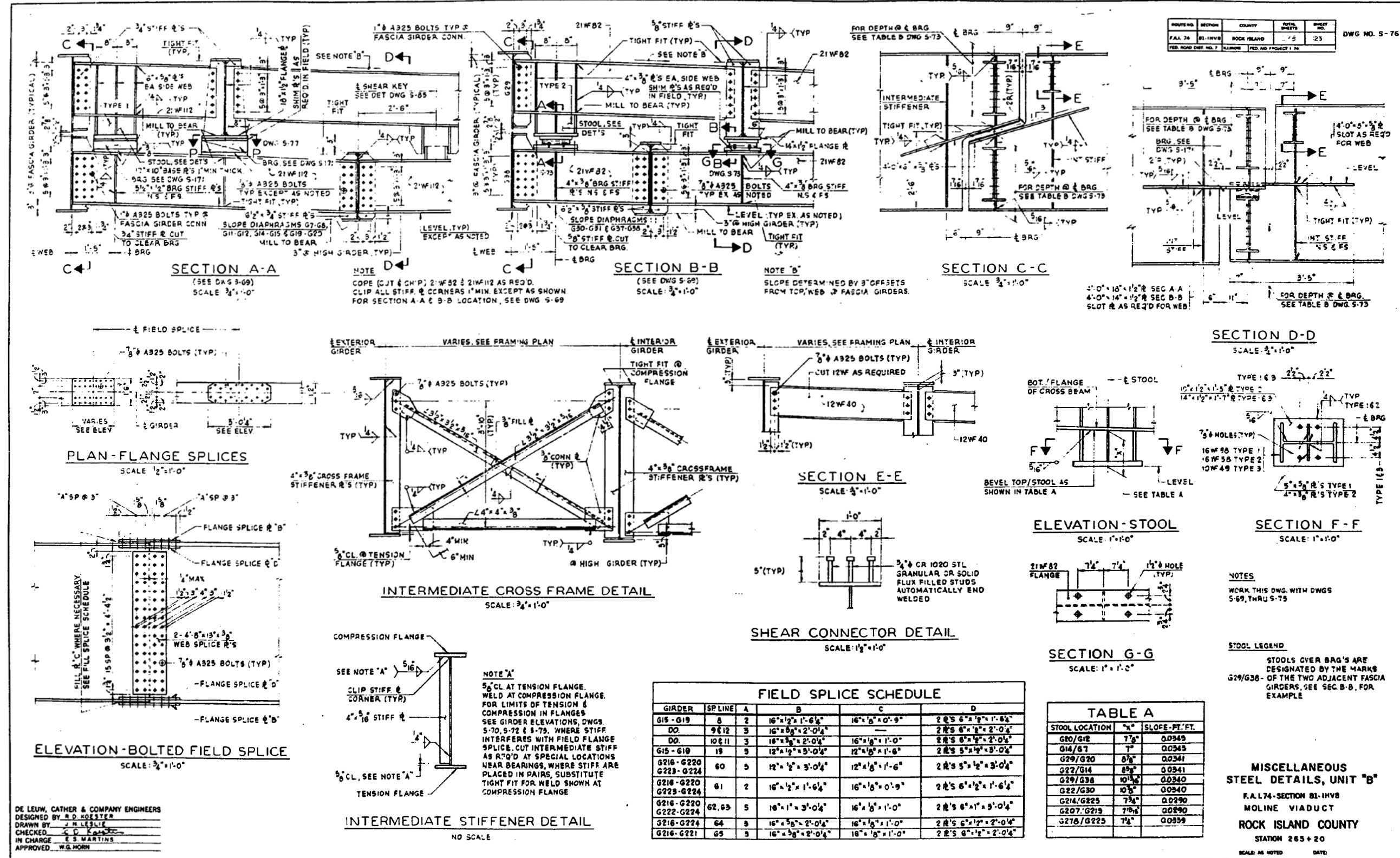


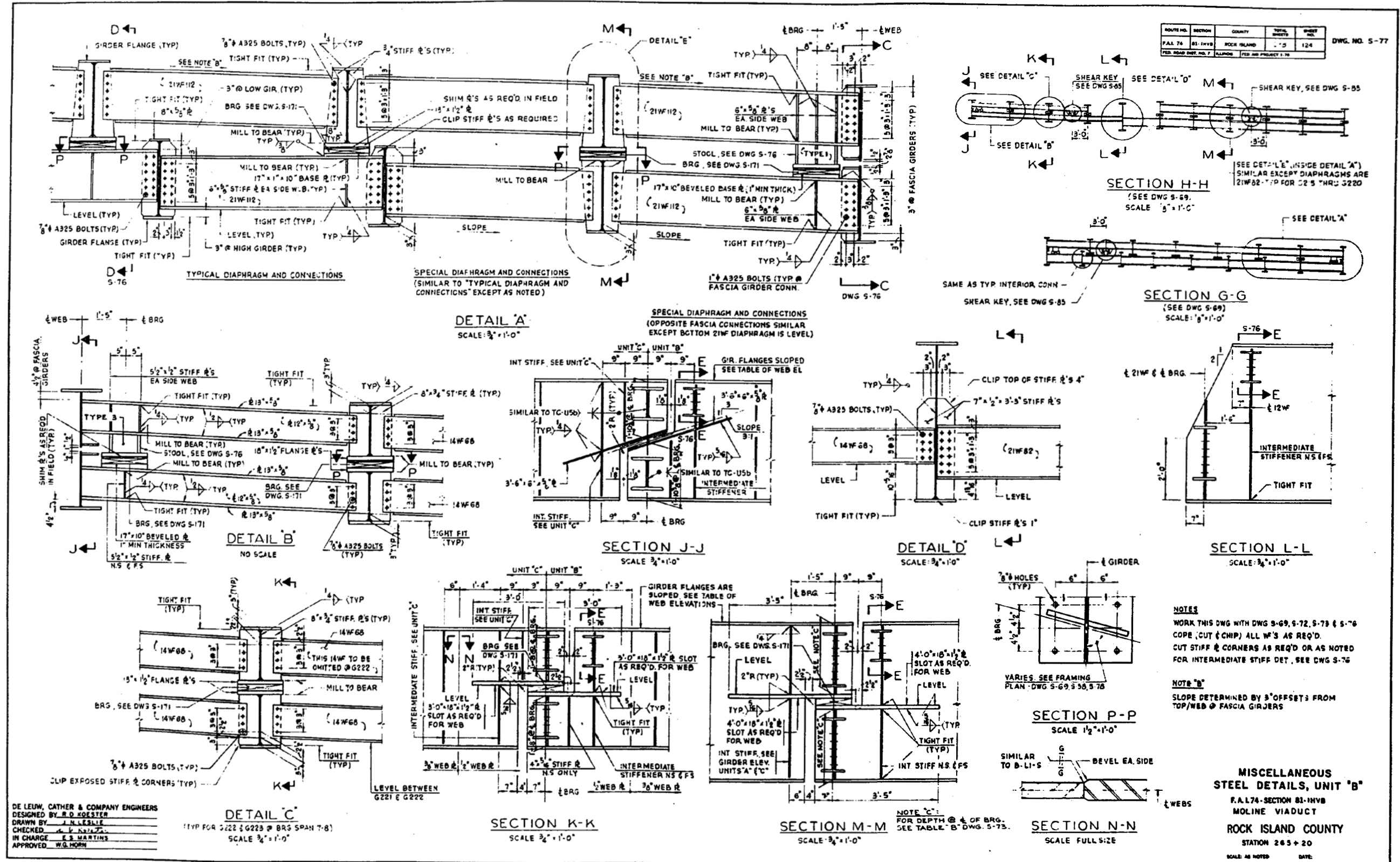
DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY R.D. KOESTER
DRAWN BY J.M. LESLIE
CHECKED J.D. [signature] EWT
IN CHARGE E.S. MARTIN
APPROVED W.G. HORN





DE LEUW, CATHY & COMPANY ENGINEERS
DESIGNED BY: A.D. ROSEKATZ
DRAWN BY: J. H. LEBLANC
CHECKED: J. D. ROSEKATZ
IN CHARGE: E. S. MARTINE
APPROVED: W. G. HORN





DE LEUW, CATHAR & COMPANY ENGINEERS
DESIGNED BY R.D. KOESTER
DRAWN BY J.N. LESLIE
CHECKED BY J.N. LESLIE
IN CHARGE E.S. MARTIN
APPROVED W.G. HORN

DETAIL C
TYP FOR G222 & G223 @ BRG SPAN 7-8
SCALE: 3/4" = 1'-0"

SECTION K-K
SCALE: 3/4" = 1'-0"

SECTION M-M
SCALE: 3/4" = 1'-0"

SECTION N-N
SCALE: FULL SIZE

**MISCELLANEOUS
STEEL DETAILS, UNIT "B"**
F.A.L.74-SECTION 81-1HV8
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE:



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & (81-1)HV8	ROCK ISLAND	1504	688
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

FILE NAME :
0810178-A0321-002-Contract AB Demo_Rasters.brg

MODEL:
60 Contract AB

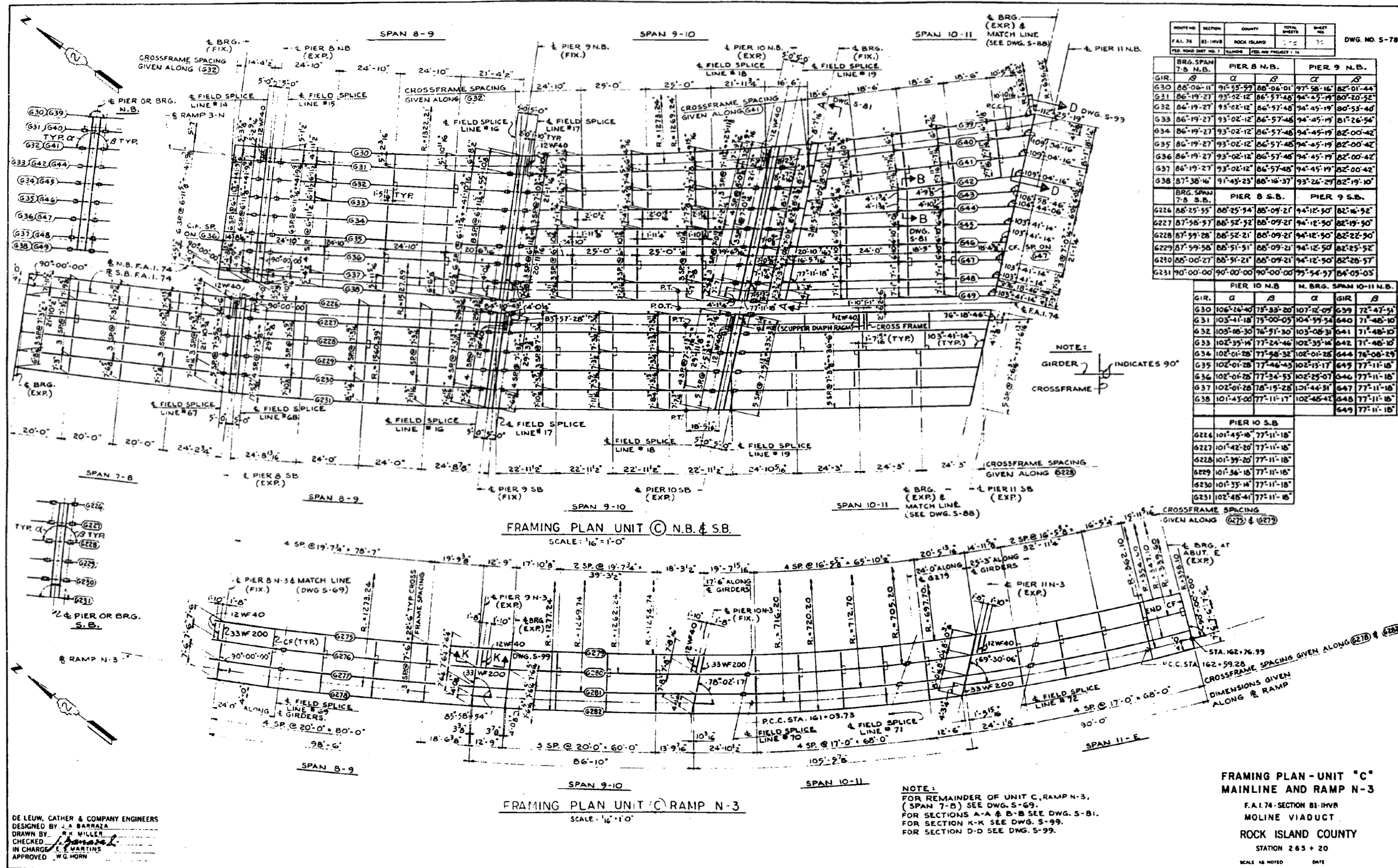
USER NAME : ksnider
DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK
REVISED -
REVISED -
REVISED -
REVISED -

SHEET NO. SX69 OF SX150 SHEETS

c:\pwise_work\do_not_delete\dms04543\0810178-A0321-002-Contract AB Demo_Rasters.brg

1/18/2017



benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
0810178-AB321-002-Contract AB Demo.Rasters.brg
MODEL :
61 Contract AB

USER NAME : ksnider
DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED : AWH
CHECKED : AJK
DRAWN : KMS
CHECKED : AJK
REVISED :
REVISED :
REVISED :
REVISED :

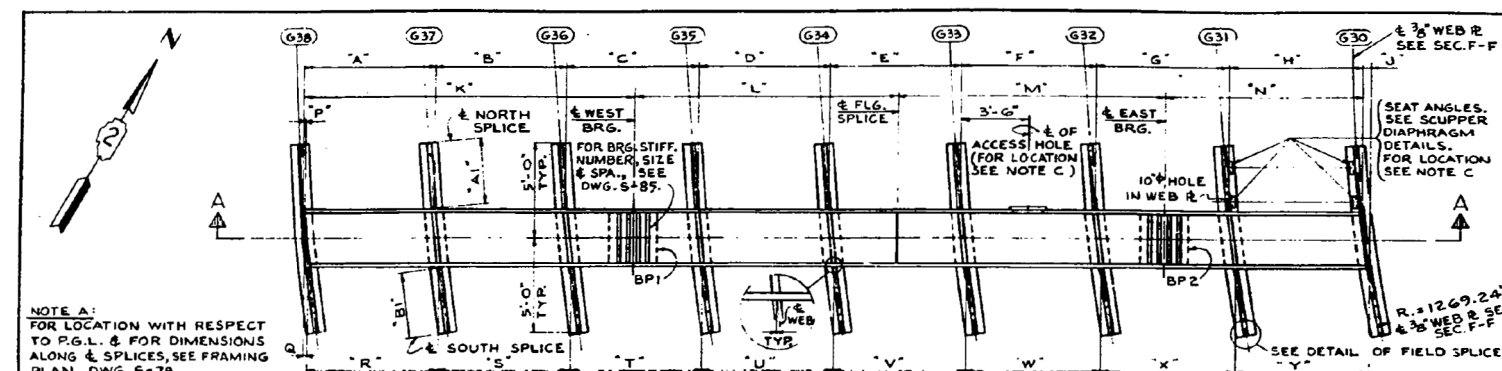
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX70 OF SX150 SHEETS

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R & 81-1HVB)	ROCK ISLAND	1504	689
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



NOTE A:
FOR LOCATION WITH RESPECT
TO P.G.L. & FOR DIMENSIONS
ALONG & SPICES, SEE FRAMING
PLAN, DWG. S-78.

SECTIONAL PLAN
SCALE: 1/4" = 1'-0"

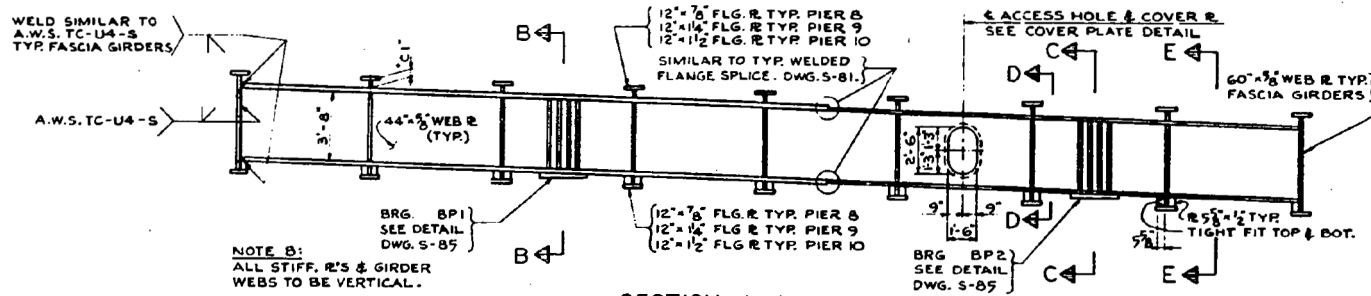
* "A1" & "B1" ARE ARC DIMENSIONS ALONG & WEB FOR G30.

LOCATION	PIER 8 N.B.			PIER 9 N.B.			PIER 10 N.B.		
	"A1"	"B1"	"C1"	"A1"	"B1"	"C1"	"A1"	"B1"	"C1"
G30	3'-7 1/2"	3'-7 1/2"	6'-8"	3'-6 3/8"	3'-6 1/8"	6'-8"	3'-7 1/2"	3'-7 1/2"	6'-7 1/2"
G31	3'-7 1/2"	3'-7 1/2"	6'-8"	3'-6 3/8"	3'-6 1/8"	6'-8"	3'-7 1/2"	3'-7 1/2"	5'-8"
G32	DO	DO	6'-8"	DO	DO	6'-8"	3'-7 1/2"	3'-7 1/2"	5'-8"
G33	DO	DO	6'-8"	DO	DO	6'-8"	3'-7 1/2"	3'-7 1/2"	5'-8"
G34	DO	DO	5'-8"	DO	DO	5'-8"	3'-6 3/8"	3'-6 1/8"	7'-1"
G35	DO	DO	5'-8"	DO	DO	5'-8"	DO	DO	5'-8"
G36	DO	DO	5'-8"	DO	DO	5'-8"	DO	DO	5'-8"
G37	3'-7 1/2"	3'-7 1/2"	5'-8"	3'-6 3/8"	3'-6 1/8"	5'-8"	3'-6 3/8"	3'-6 1/8"	5'-8"
G38	3'-7 1/2"	3'-7 1/2"	6'-8"	3'-6 1/8"	3'-6 3/8"	6'-8"	3'-6 3/8"	3'-7 1/2"	4'-1 1/2"

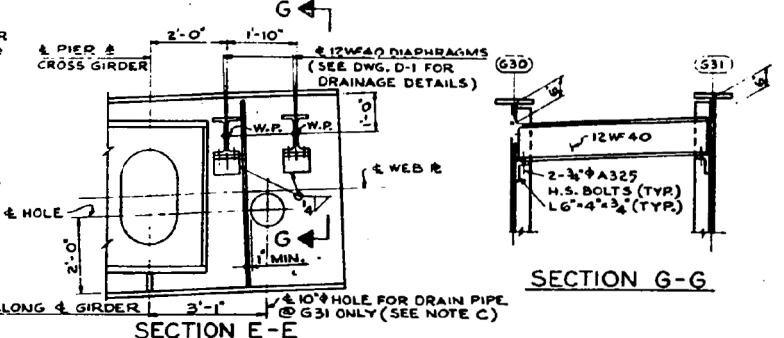
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 74	81-1HVBR	ROCK ISLAND	225	22
FED. ROAD DIST. NO. 7				

DWG. NO. S-80

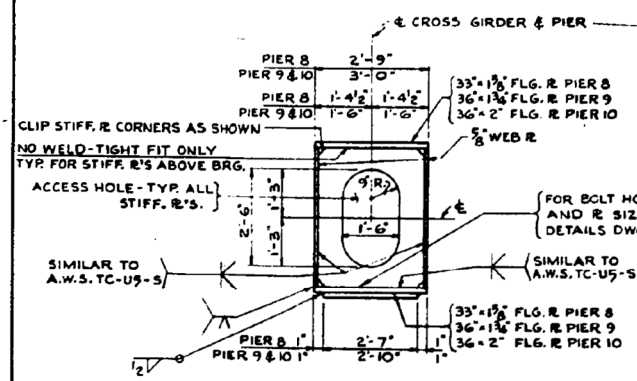
DIMENSIONS	PIER 8 N.B.	PIER 9 N.B.	PIER 10 N.B.
"A"	4'-9 3/8"	6'-11 3/8"	7'-0 3/8"
"B"	6'-11 3/8"	6'-11 3/8"	7'-0 3/8"
"C"	DO	DO	DO
"D"	DO	DO	7'-0 3/8"
"E"	DO	DO	8'-0 3/8"
"F"	DO	DO	DO
"G"	6'-11 3/8"	6'-11 3/8"	8'-0 3/8"
"H"	5'-2 1/2"	6'-10 3/8"	7'-11 1/2"
"J"	1'-6"	5'-6"	10'-1 1/2"
"K"	15'-3 1/2"	17'-6 1/2"	18'-6"
"L"	13'-11 1/2"	13'-11 1/2"	14'-8"
"M"	13'-11 1/2"	13'-11 1/2"	16'-0"
"N"	8'-7 3/8"	10'-3 3/8"	11'-7 3/8"
"P"	1'-2"	1'-6"	3'-3 1/2"
"Q"	1'-2"	2'-6"	4'-8"
"R"	4'-9 3/8"	6'-11 3/8"	7'-0 3/8"
"S"	6'-11 3/8"	6'-11 3/8"	7'-1 1/2"
"T"	DO	DO	7'-0 3/8"
"U"	DO	6'-11 3/8"	7'-0 3/8"
"V"	DO	6'-11 3/8"	8'-0 3/8"
"W"	DO	DO	8'-0 3/8"
"X"	6'-11 3/8"	6'-11 3/8"	8'-1"
"Y"	5'-2 1/2"	6'-11 1/4"	8'-0 3/8"



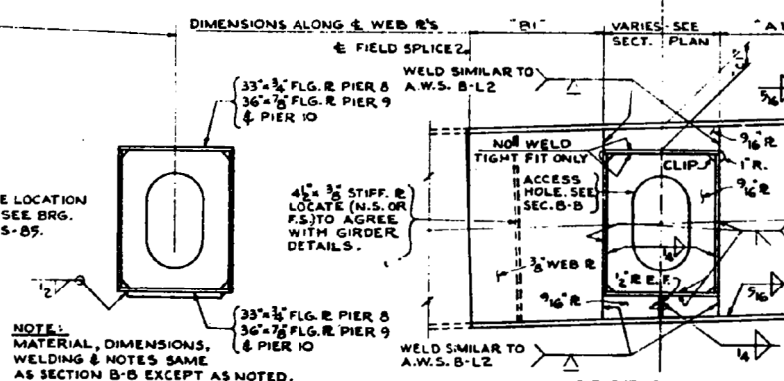
SECTION A-A
SCALE: 1/2" = 1'-0"



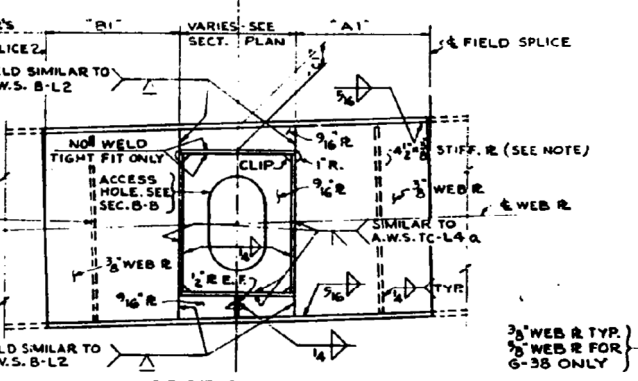
SCUPPER DIAPHRAGM DETAILS
SCALE: 1/2" = 1'-0"



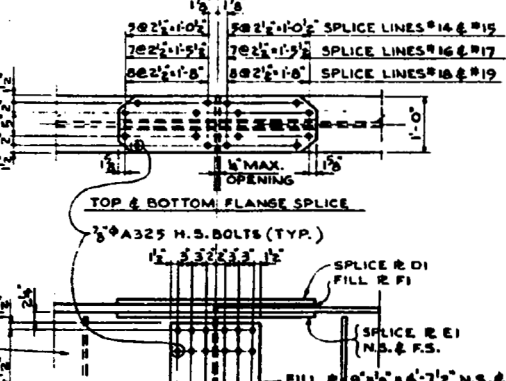
SECTION B-B
SCALE: 1/2" = 1'-0"



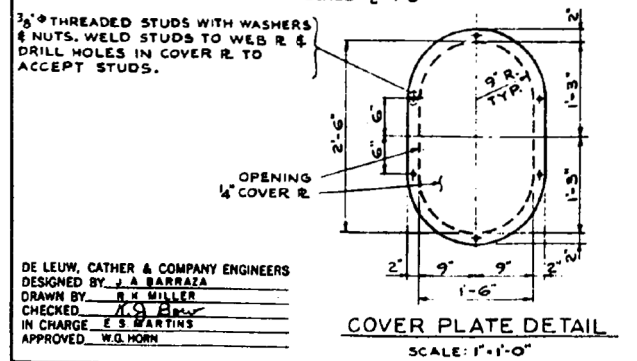
SECTION C-C
SCALE: 1/2" = 1'-0"



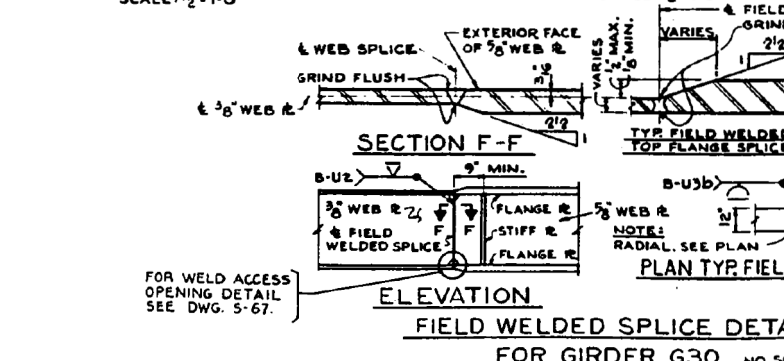
SECTION D-D
SCALE: 1/2" = 1'-0"



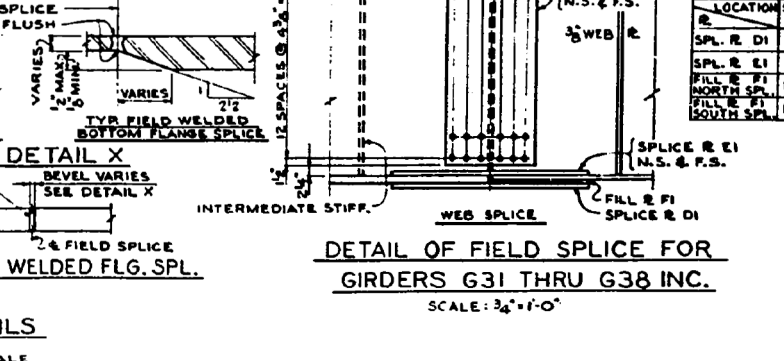
SECTION E-E
SCALE: 1/2" = 1'-0"



COVER PLATE DETAIL
SCALE: 1" = 1'-0"



SECTION F-F
SCALE: 1/2" = 1'-0"



DETAIL OF FIELD SPICE FOR
GIRDERS G31 THRU G38 INC.
SCALE: 3/4" = 1'-0"

NOTE:
WORK THIS DRAWING WITH FRAMING
PLAN, DWG. S-78; AND STEEL DETAILS,
DWG. S-85.

LOCATION	SPLICE LINES #14 & #15	SPLICE LINES #16 & #17	SPLICE LINES #18 & #19
SPL. R. D1	R. 12" x 1/2" x 2'-0"	R. 12" x 3/4" x 3'-0"	R. 12" x 7/8" x 3'-11"
SPL. R. E1	R. 9" x 1/2" x 2'-0"	R. 9" x 3/4" x 3'-0"	R. 9" x 7/8" x 3'-11"
SPL. R. F1	R. 12" x 1/2" x 1'-3 3/8"	R. 12" x 3/4" x 1'-8 3/8"	R. 12" x 7/8" x 1'-11 3/8"
SPL. R. F1	R. 12" x 1/2" x 1'-3 3/8"	R. 12" x 3/4" x 1'-8 3/8"	R. 12" x 7/8" x 1'-11 3/8"

CROSS GIRDERS AT PIERS
8 (N.B.), 9 (N.B.) AND 10 (N.B.)
F.A. 174-SECTION 81-1HVBR
MO LINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE:

DE LEUW, CATHY & COMPANY ENGINEERS
DESIGNED BY J. A. BARRAZA
DRAWN BY R. K. MILLER
CHECKED J. G. BROWN
IN CHARGE E. S. MARTINS
APPROVED W. G. HORN



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

DESIGNED - AWH	REVISD -
CHECKED - AJK	REVISD -
DRAWN - KMS	REVISD -
CHECKED - AJK	REVISD -

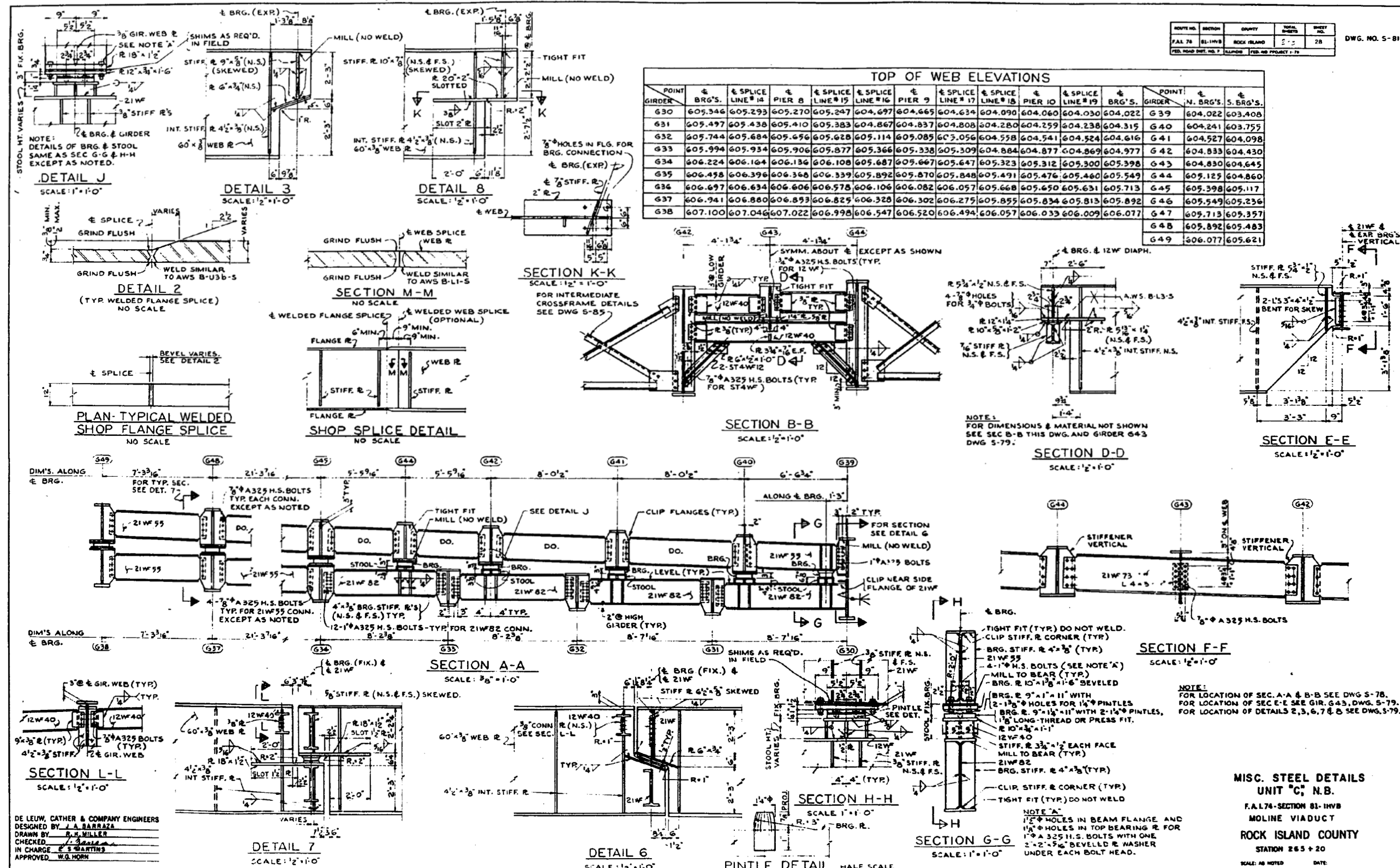
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A. 174-SECTION	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	691
CONTRACT NO. 64C08				

SHEET NO. SX72 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME :
 0810178-AB321-002-Contract AB Demo-Rasters.brg
 MODEL:
 64 Contract AB

USER NAME : ksnider
 PLOT SCALE :
 PLOT DATE : 1/18/2017

DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

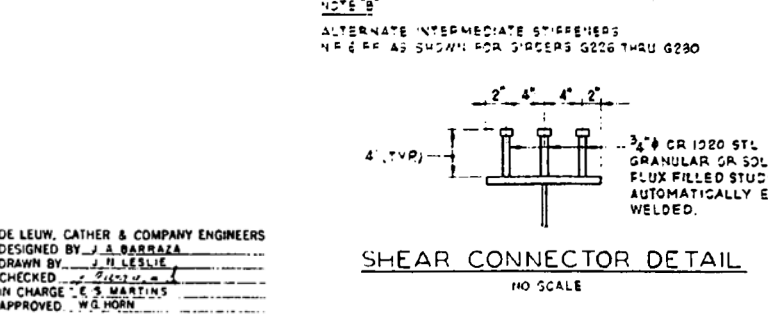
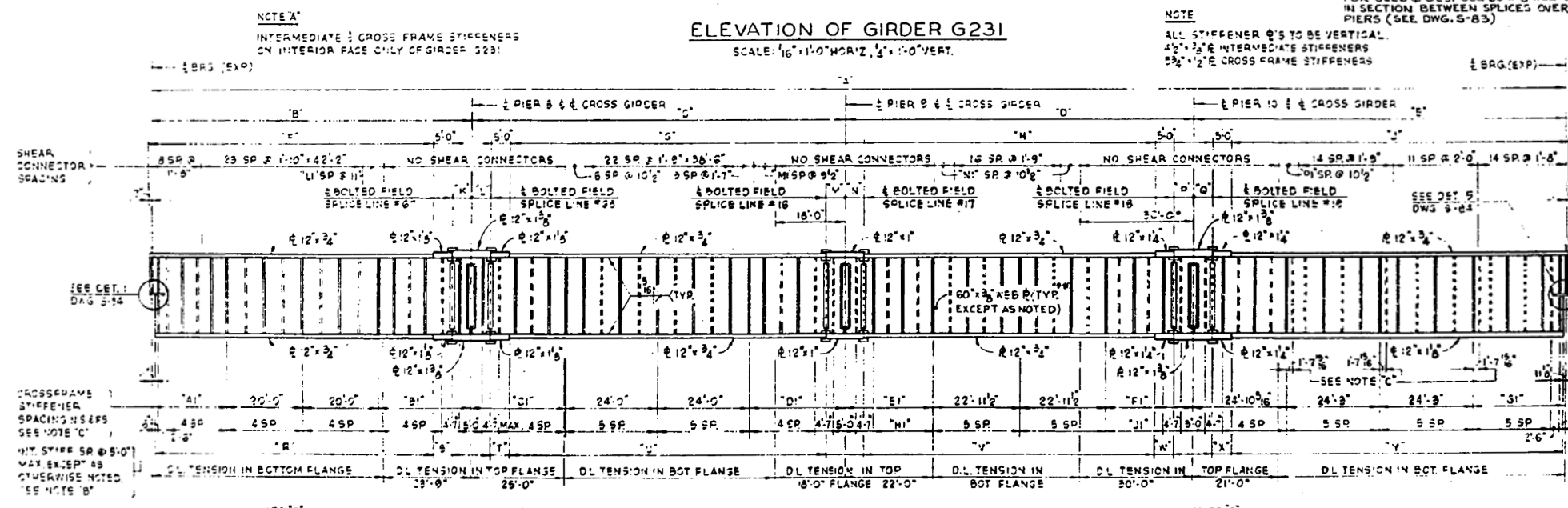
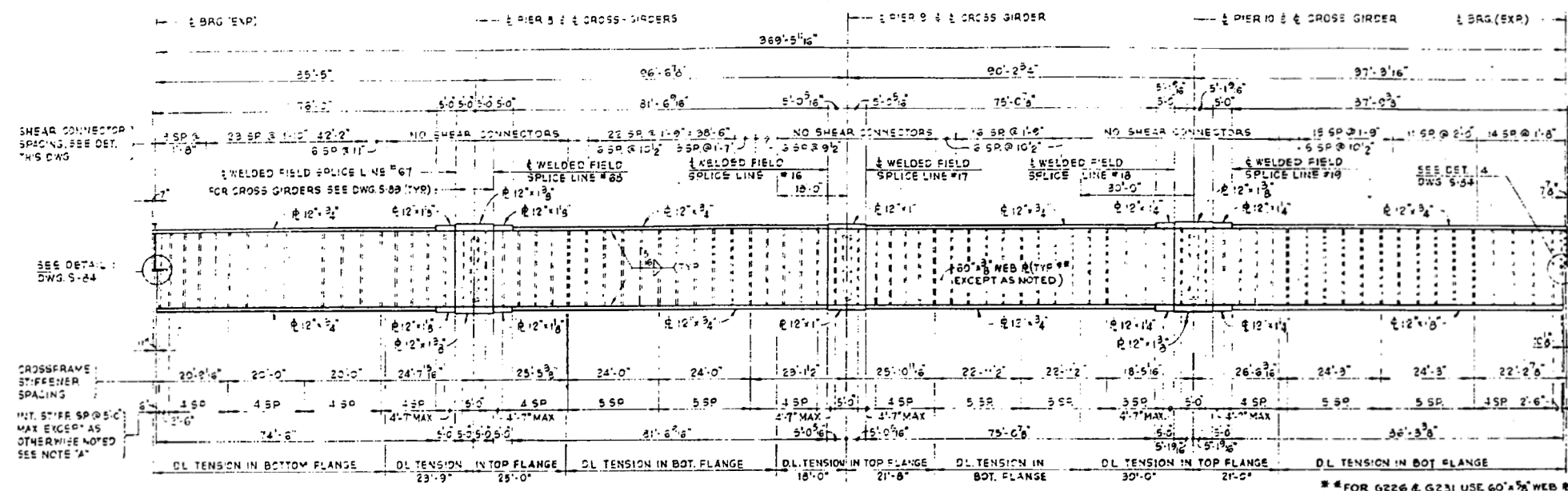
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX73 OF SX150 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	692
CONTRACT NO. 64C08				

ILLINOIS FED. AID PROJECT



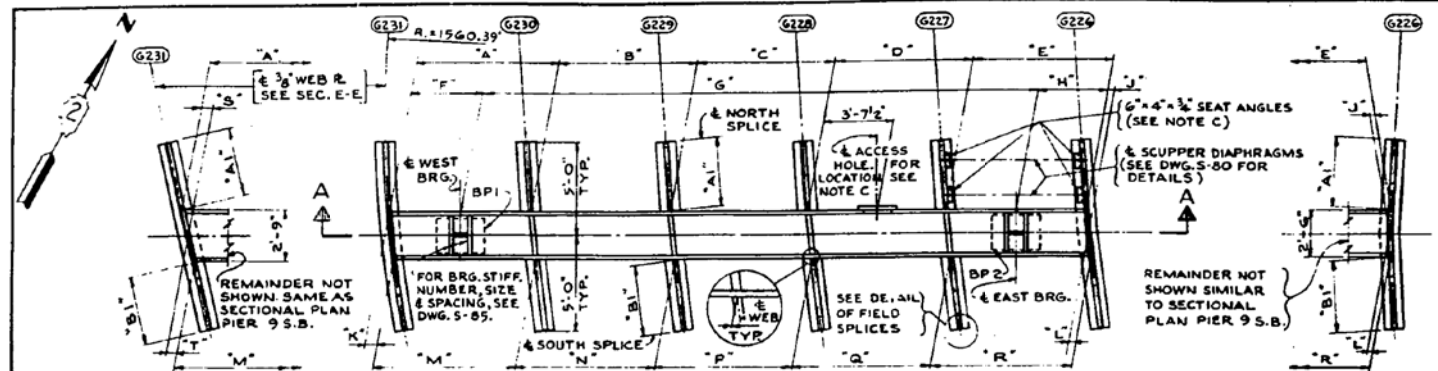
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
3/4" x 4" STUD SHEAR CONNECTORS	EACH	2,841

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	81-11R	ROCK ISLAND	156	120

DWG. NO. S-82

TABLE OF DIMENSIONS & SPACINGS						
DIMENSIONS						
GIRDER	"A"	"B"	"C"	"D"	"E"	"F"
G226	372'-3"	83'-4 1/2"	98'-1"	92'-11"	97'-10 1/2"	79'-11 1/2"
G227	371'-5 1/2"	83'-9 1/2"	97'-9 1/2"	92'-4 1/2"	97'-8 1/2"	74'-4 1/2"
G228	371'-1 1/2"	84'-2 1/2"	97'-5 1/2"	91'-10"	97'-7 1/2"	74'-3 1/2"
G229	370'-8 1/2"	84'-7 1/2"	97'-2 1/2"	91'-3 1/2"	97'-5 1/2"	75'-2 1/2"
G230	370'-6 1/2"	85'-0 1/2"	96'-10 1/2"	90'-8 1/2"	97'-4 1/2"	75'-5 1/2"
GIRDER	"G"	"H"	"J"	"K"	"L"	"M"
G226	83'-0 1/2"	77'-9 1/2"	88'-3 1/2"	5'-0"	5'-0 1/2"	5'-0 1/2"
G227	82'-0 1/2"	77'-2 1/2"	88'-2"	5'-0"	5'-0 1/2"	5'-0 1/2"
G228	82'-5 1/2"	76'-3 1/2"	88'-0 1/2"	5'-0"	5'-0 1/2"	5'-0 1/2"
G229	82'-11 1/2"	76'-11 1/2"	87'-11 1/2"	5'-0"	5'-0 1/2"	5'-0 1/2"
G230	81'-10 1/2"	75'-7 1/2"	87'-8 1/2"	5'-0"	5'-0 1/2"	5'-0 1/2"
GIRDER	"N"	"O"	"P"	"R"	"S"	"T"
G226	5'-0 1/2"	5'-1 1/2"	5'-1 1/2"	72'-5 1/2"	5'-0"	5'-0"
G227	5'-0 1/2"	5'-1 1/2"	5'-1 1/2"	71'-0 1/2"	5'-0"	5'-0"
G228	5'-0 1/2"	5'-1 1/2"	5'-1 1/2"	73'-3 1/2"	5'-0"	5'-0"
G229	5'-0 1/2"	5'-1 1/2"	5'-1 1/2"	73'-3 1/2"	5'-0"	5'-0"
G230	5'-0 1/2"	5'-1 1/2"	5'-1 1/2"	74'-1 1/2"	5'-0"	5'-0"
GIRDER	"U"	"V"	"W"	"X"	"Y"	"Z"
G226	83'-0 1/2"	77'-9 1/2"	5'-0"	5'-0"	86'-9 1/2"	
G227	82'-0 1/2"	77'-2 1/2"	5'-0"	5'-0"	86'-8"	
G228	82'-5 1/2"	76'-3 1/2"	5'-0"	5'-0"	86'-6 1/2"	
G229	82'-11 1/2"	76'-11 1/2"	5'-0"	5'-0"	86'-5 1/2"	
G230	81'-10 1/2"	75'-7 1/2"	5'-0"	5'-0"	86'-2 1/2"	
SHEAR CONNECTOR SPACING						
GIRDER	"L1"	"M1"	"N1"	"P1"		
G226	5	3	8	9		
G227	5	3	8	9		
G228	6	9	7	9		
G229	6	8	7	9		
G230	7	8	7	6		
CROSS FRAME STIFFENER SPACING						
GIRDER	"A1"	"B1"	"C1"	"D1"		
G226	19'-5 1/2"	23'-11 1/2"	24'-3 1/2"	25'-9 1/2"		
G227	19'-0 1/2"	24'-1"	24'-6"	25'-3 1/2"		
G228	20'-0"	24'-2 1/2"	24'-8 1/2"	24'-8 1/2"		
G229	20'-3 1/2"	24'-4 1/2"	24'-11 1/2"	24'-2 1/2"		
G230	20'-6 1/2"	24'-8 1/2"	25'-2 1/2"	25'-8"		
GIRDER	"E1"	"F1"	"G1"			
G226	21'-0 1/2"	25'-11 1/2"	24'-5 1/2"			
G227	21'-11 1/2"	24'-5 1/2"	24'-4 1/2"			
G228	22'-11 1/2"	22'-11 1/2"	24'-5"			
G229	23'-11 1/2"	21'-5 1/2"	24'-15 1/2"			
G230	24'-10 1/2"	19'-11 1/2"	24'-0 1/2"			
INTERMEDIATE STIFFENER SPACING						
GIRDER	"H1"	"J1"				
G226	3	4				
G227	3	4				
G228	4	4				
G229	4	3				
G230	4	3				

**GIRDER ELEVATIONS
G-226 THRU G-231**
F.A.L. 74-SECTION 81-11R
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 263 + 20
SCALE: AS NOTED DATE:



**PART SECTIONAL
PLAN-PIER 10 S.B.**
SCALE: 1/4"=1'-0"

SECTIONAL PLAN-PIER 9 S.B.
SCALE: 1/4"=1'-0"

**PART SECTIONAL
PLAN-PIER 8 S.B.**
SCALE: 1/4"=1'-0"

*"A1" & "B1" ARE ARC DIMENSIONS ALONG & WEB OF G231 FOR PIERS 8 & 9 S.B.

LOCATION	PIER 8 S.B.			PIER 9 S.B.			PIER 10 S.B.		
	"A1"	"B1"	"C1"	"A1"	"B1"	"C1"	"A1"	"B1"	"C1"
G226	3'-9"	3'-9"	6"	3'-9 1/8"	3'-9 1/8"	6"	3'-8 1/4"	3'-8 1/4"	6"
G227	DO	DO	5 1/8"	DO	3'-9 3/8"	5 1/8"	DO	DO	5 3/4"
G228	DO	DO	5 1/8"	DO	DO	5 1/8"	DO	DO	5 1/8"
G229	DO	DO	5 1/8"	DO	DO	5 1/8"	3'-8 1/4"	DO	5 1/8"
G230	DO	DO	5 1/8"	3'-9 3/8"	3'-9 3/8"	5 1/8"	3'-8 1/4"	DO	5 1/8"
G231	3'-9"	3'-9"	6"	3'-9 1/8"	3'-9 1/8"	6"	3'-8 1/4"	3'-8 1/4"	6"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAH 74	81-1HVB	ROCK ISLAND	132	132
FED. ROAD DIST. NO. 7				
FED. ROAD PROJECT 1-74				

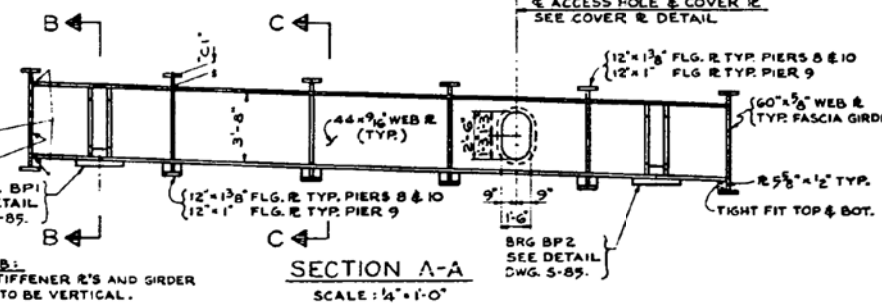
DWG. NO. 5-83

DIMENSIONS	PIER 8 S.B.	PIER 9 S.B.	PIER 10 S.B.
"A"	7'-3 3/8"	7'-9 1/4"	7'-6 1/4"
"B"	7'-3 3/8"	7'-3 3/8"	7'-5 13/16"
"C"	DO	DO	DO
"D"	7'-3 3/8"	DO	DO
"E"	7'-3 1/4"	7'-3 1/4"	7'-5 13/16"
"F"	3'-8"	3'-9 3/8"	4'-0 13/16"
"G"	29'-2"	29'-4"	29'-11"
"H"	3'-8 1/4"	3'-7 3/8"	3'-5 3/8"
"J"	7'-6"	1'-6"	3'-16"
"K"	0"	3'-8"	—
"L"	1'-2"	2'-1/8"	3'-16"
"M"	7'-4 1/4"	7'-5 1/8"	7'-5 13/16"
"N"	7'-3 3/8"	7'-3 3/8"	DO
"P"	DO	DO	DO
"Q"	DO	DO	DO
"R"	7'-3 3/8"	7'-3 3/8"	7'-5 13/16"
"S"	—	—	3'-16"
"T"	—	—	3'-16"

NOTE A:
FOR LOCATION WITH RESPECT TO P.G.L. & FOR DIMENSIONS ALONG & SPICES, SEE FRAMING PLAN, DWG. S-78.

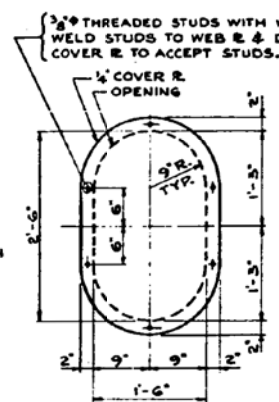
A.W.S.TC-U4-S
TYP. FOR BOTH EXT. GIRDERS

NOTE B:
ALL STIFFENER R'S AND GIRDER WEBS TO BE VERTICAL.

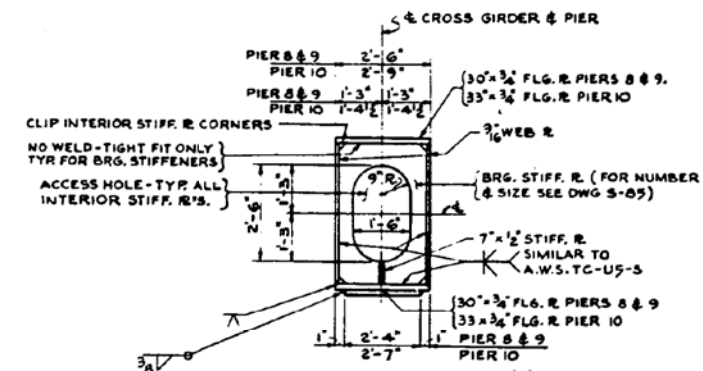


SECTION A-A
SCALE: 1/4"=1'-0"

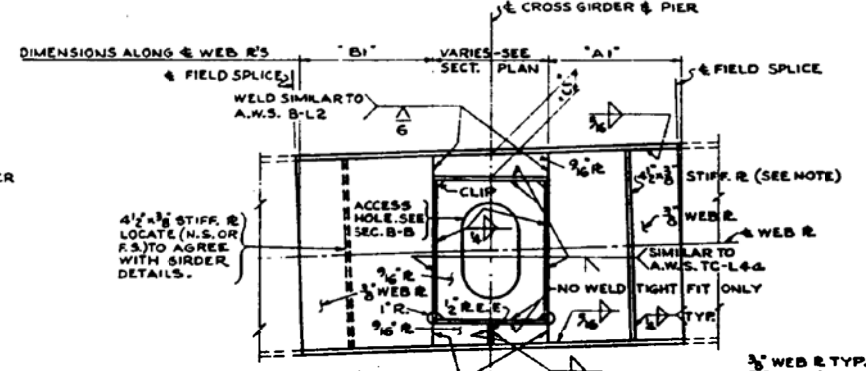
NOTE C:
LOCATE ACCESS HOLE AND SEAT ANGLES ON NORTH SIDE FOR PIER 8 AND PIER 10, AND SOUTH SIDE FOR PIER 9.



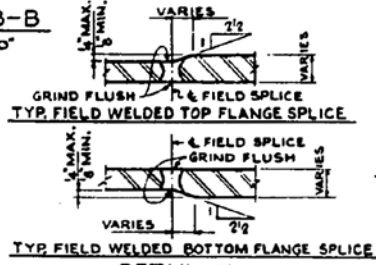
COVER PLATE DETAIL
SCALE: 1"=1'-0"



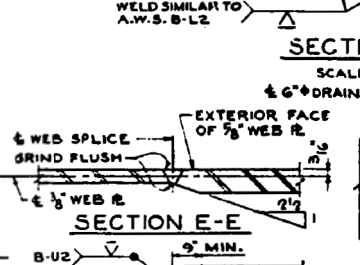
SECTION B-B
SCALE: 1/2"=1'-0"



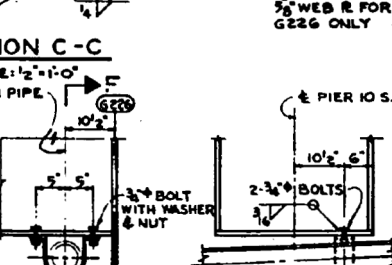
SECTION C-C
SCALE: 1/2"=1'-0"



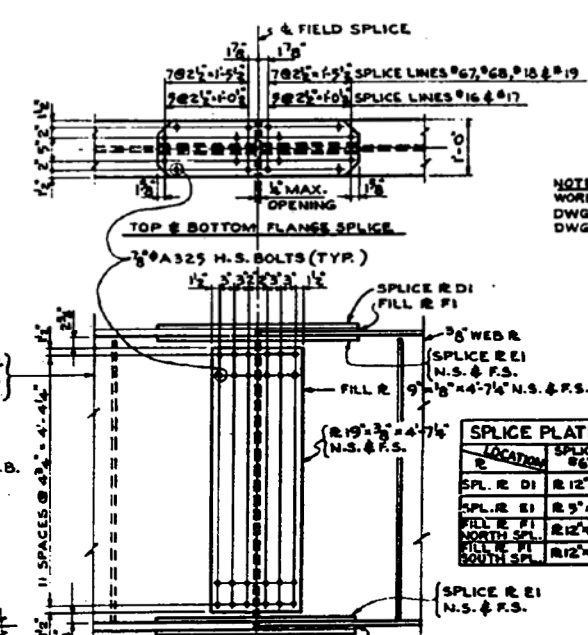
DETAIL X
FIELD WELDED TOP FLANGE SPICE



SECTION E-E
FIELD WELDED BOTTOM FLANGE SPICE



ELEVATION
DETAIL OF DRAIN PIPE CONNECTION AT PIER 10 S.B. ONLY



DETAIL OF FIELD SPICE FOR GIRDERS G226 THRU G230 INC.
SCALE: 3/4"=1'-0"

LOCATION	SPICE LINES 667 & 668	SPICE LINES 616 & 617	SPICE LINES 618 & 619
SPL. R. D1	R 12'-3 1/2" x 3'-6"	R 12'-3 1/2" x 3'-6"	R 12'-3 1/2" x 3'-6"
SPL. R. E1	R 9'-3 1/2" x 3'-6"	R 9'-3 1/2" x 3'-6"	R 9'-3 1/2" x 3'-6"
FILL R. F1	R 12'-3 1/2" x 3'-6"	R 12'-3 1/2" x 3'-6"	R 12'-3 1/2" x 3'-6"
FILL R. F1	R 12'-3 1/2" x 3'-6"	R 12'-3 1/2" x 3'-6"	R 12'-3 1/2" x 3'-6"

CROSS GIRDERS AT PIERS 8 (S.B.), 9 (S.B.) AND 10 (S.B.)

F.A.L.74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 +20

DE LEUM, CATHY & COMPANY ENGINEERS
DESIGNED BY J.A. BARRAZA
DRAWN BY R.A. MILLER
CHECKED BY S. MARTINS
IN CHARGE W.G. HORN
APPROVED

NOTE:
RADIAL (EXCEPT AT SPICE LINES 618 & 619) SEE FRAMING PLAN.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	694
CONTRACT NO. 64C08				
ILLINOIS FED. AID PROJECT				

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
0810178-A0321-002-Contract AB Demo_Rasters.brg	ksnyder	AWH	-
MODEL :	CHECKED :	REVISOR :	-
66 Contract AB	W.G. HORN	AWK	-
	PLOT DATE :	REVISOR :	-
	1/18/2017	AWK	-

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TABLE OF PROPERTIES - INTERIOR GIRDERS							
LOCATION	0.50 SPAN 7-8	€ PIER 8	0.50 SPAN 8-9	€ PIER 9	0.50 SPAN 9-10	€ PIER 10	0.50 SPAN 10-11
STEEL SECTION							
IS	23,358	37,832	23,358	29,082	23,358	37,832	27,235
Sts	760	1,206	760	938	760	1,206	805
Sbs	760	1,206	760	938	760	1,206	972
COMPOSITE SECTION							
Ic	53,932	—	53,932	—	53,932	—	65,810
Stc	5,839	—	5,839	—	5,839	—	5,791
Sbc	1,032	—	1,032	—	1,032	—	1,303

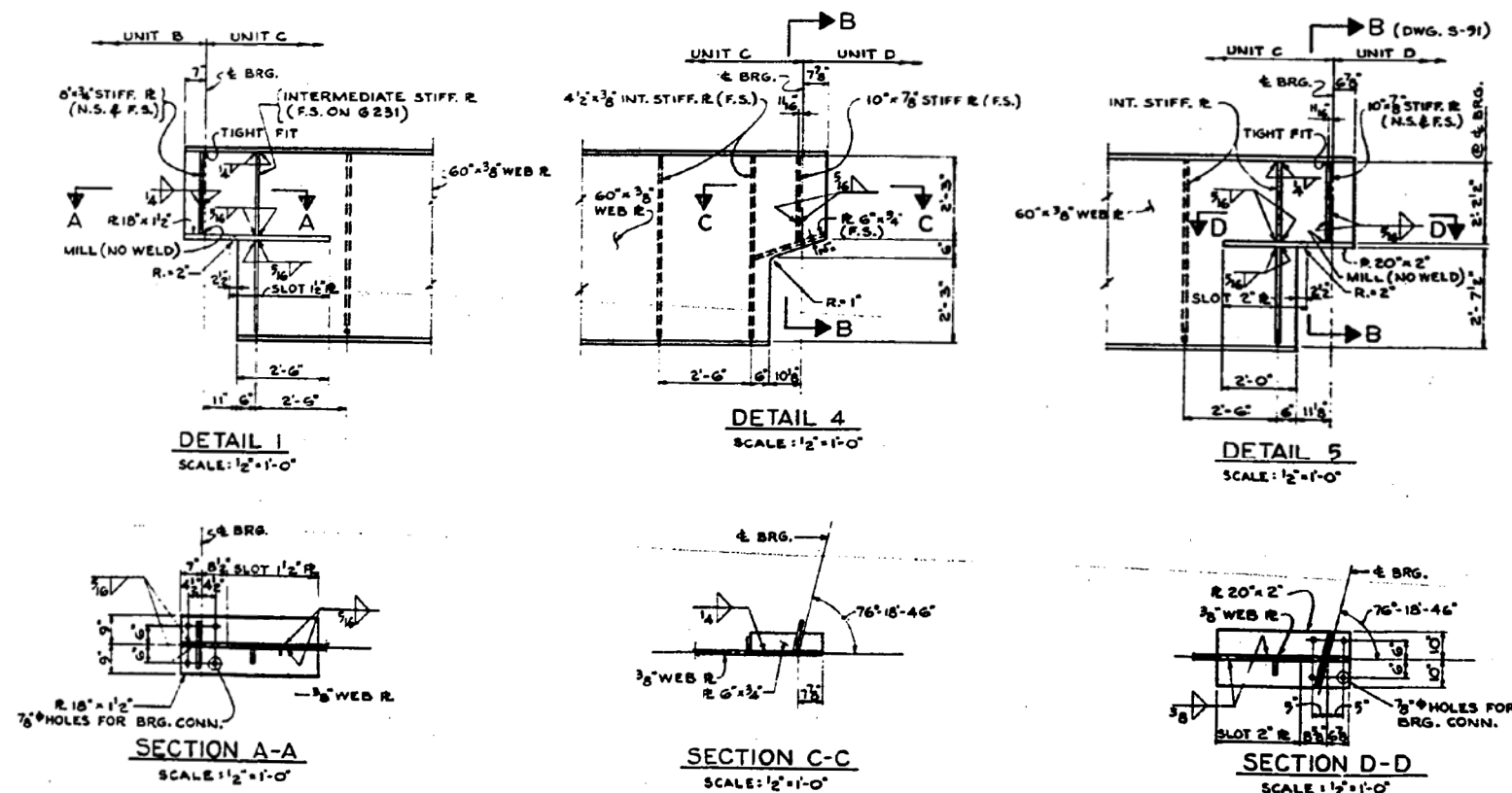
TOP OF WEB ELEVATIONS												
GIR.	PT.	€ EXP. BRG.	€ SPLICE LINE #67	€ PIER 8	€ SPLICE LINE #68	€ SPLICE LINE #16	€ PIER 9	€ SPLICE LINE #17	€ SPLICE LINE #18	€ PIER 10	€ SPLICE LINE #19	€ EXP. BRG.
G226		607.233	606.737	606.712	606.688	606.307	606.283	606.259	605.883	605.863	605.843	605.595
G227		607.472	606.962	606.937	606.912	606.534	606.512	606.487	606.003	605.976	605.949	605.567
G228		607.691	607.192	607.168	607.143	606.767	606.744	606.720	606.134	606.100	606.066	605.544
G229		607.910	607.411	607.387	607.362	606.989	606.966	606.942	606.259	606.218	606.176	605.526
G230		608.128	607.619	607.595	607.570	607.200	607.177	607.153	606.377	606.329	606.281	605.514
G231		608.328	607.898	607.875	607.851	607.477	607.453	607.429	606.573	606.515	606.458	605.506

TABLE OF REACTIONS (KIPS)						
INTERIOR GIRDERS						
LOADING	€ EXP. BRG.	€ PIER 8	€ PIER 9	€ PIER 10	€ EXP. BRG.	
DEAD LOAD	28.5	101.3	82.9	102.5	34.6	
S.D.L.	8.6	27.0	23.4	27.6	10.5	
LIVE LOAD	46.1	69.6	68.1	70.1	44.6	
IMPACT	10.2	15.7	15.6	15.8	12.7	
TOTAL	93.4	213.6	190.0	216.0	102.4	

TABLE OF MOMENTS (FT.KIPS) INTERIOR GIRDERS							
LOADING	0.50 SPAN 7-8	€ PIER 8	0.50 SPAN 8-9	€ PIER 9	0.50 SPAN 9-10	€ PIER 10	0.50 SPAN 10-11
DEAD LOAD	436.6	-946.1	352.5	-621.9	183.2	-981.9	638.2
S.D.L.	144.8	-210.5	126.9	-154.9	86.1	-215.4	212.0
LIVE LOAD	693.1	-593.1	717.3	-520.7	658.3	-584.8	807.2
IMPACT	153.9	-133.5	161.4	-119.2	152.1	-131.6	181.6
TOTAL COMP.	991.8	—	1,005.6	—	896.5	—	1,200.8
TOTAL STEEL	436.6	-1,883.2	352.5	-1,416.7	183.2	-1,913.7	638.2

LEGEND:

N.S. = NEAR SIDE
 F.S. = FAR SIDE
 D.L. = DEAD LOAD
 S.D.L. = SUPERIMPOSED DEAD LOAD
 IS = MOMENT OF INERTIA OF STEEL SECTION
 Sts = SECTION MODULUS AT TOP OF STEEL SECTION
 Sbs = SECTION MODULUS AT BOTTOM OF STEEL SECTION
 Ic = MOMENT OF INERTIA OF COMPOSITE SECTION
 Stc = SECTION MODULUS AT TOP OF STEEL, COMPOSITE SECTION
 Sbc = SECTION MODULUS AT BOTTOM OF STEEL, COMPOSITE SECTION



NOTE:
 WORK THIS DRAWING WITH DWG. S-82.
 FOR SECTION B-B SEE DWG. S-91.

MISC. STEEL DETAILS
 UNIT "C", S.B.
 F.A.L.74-SECTION 81-1HVB
 MOLINE VIADUCT
 ROCK ISLAND COUNTY
 STATION 263+20
 SCALE AS NOTED DATE

DE LEUW, CATHY & COMPANY ENGINEERS
 DESIGNED BY J. A. BARRAZA
 DRAWN BY R. E. MILLER
 CHECKED BY J. A. BARRAZA
 IN CHARGE J. A. BARRAZA
 APPROVED W. G. HORN



Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg
 MODEL = 67 Contract AB

USER NAME = ksnider
 PLOT SCALE =
 PLOT DATE = 1/18/2017

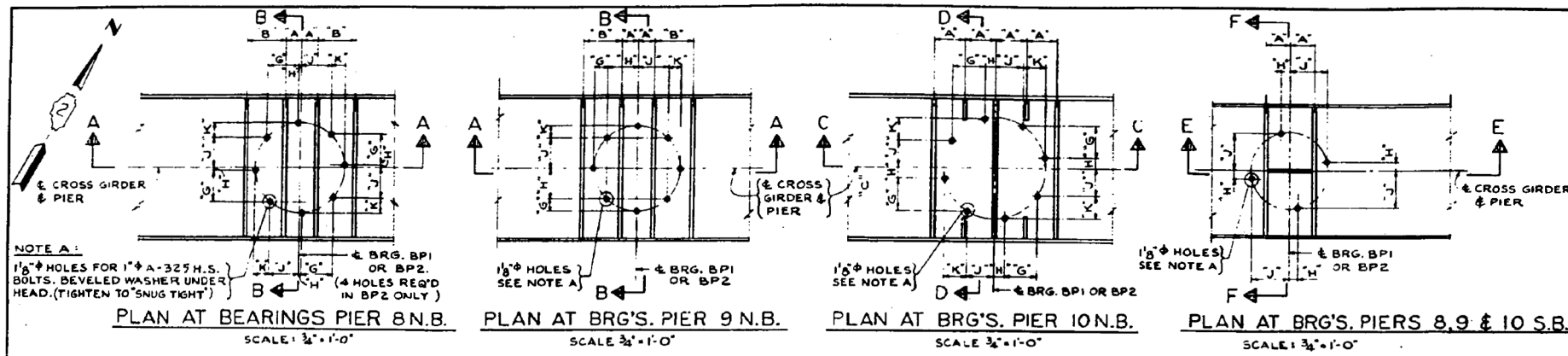
DESIGNED - AWH	REVISED -
CHECKED - AJK	REVISED -
DRAWN - KMS	REVISED -
CHECKED - AJK	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

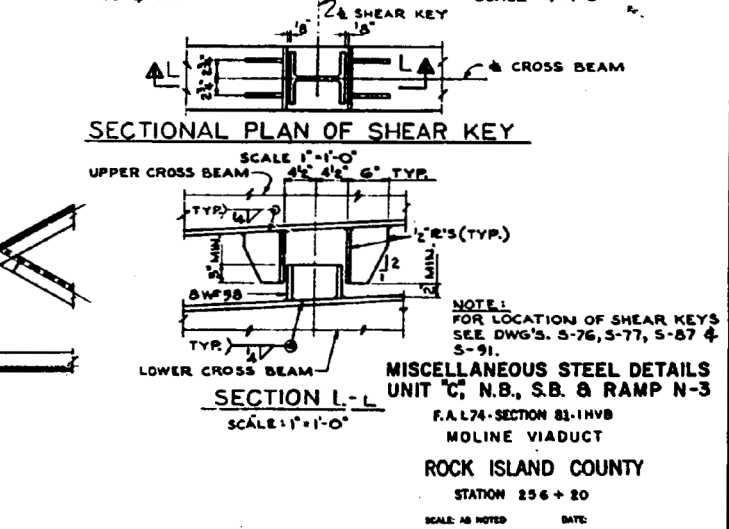
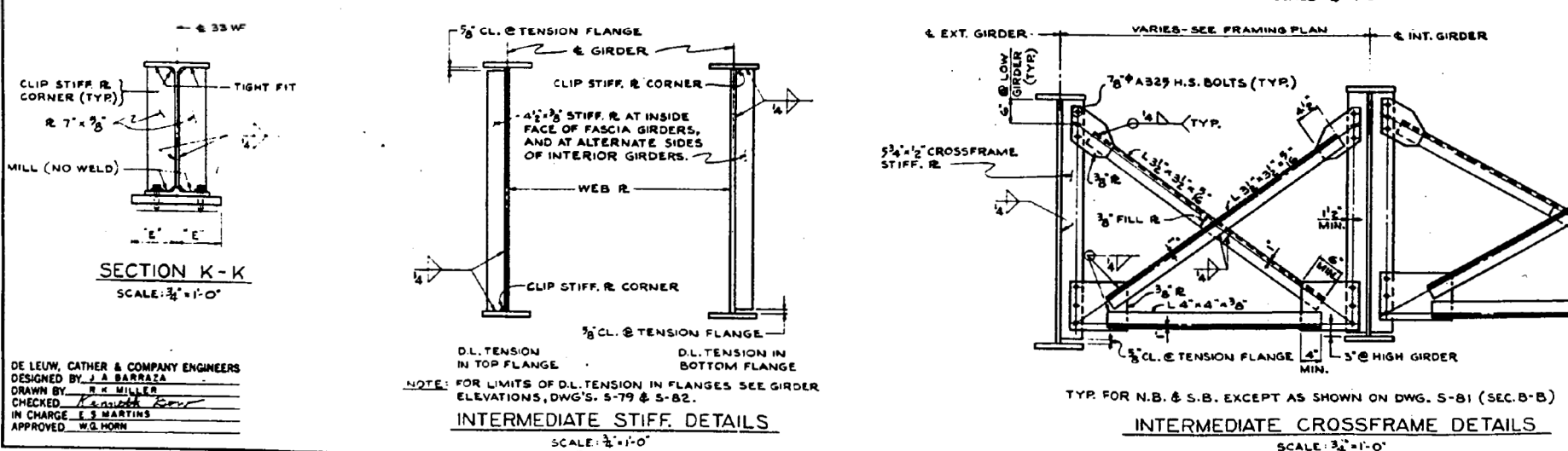
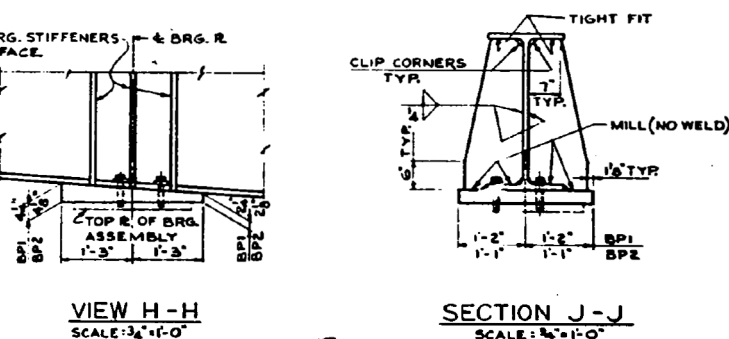
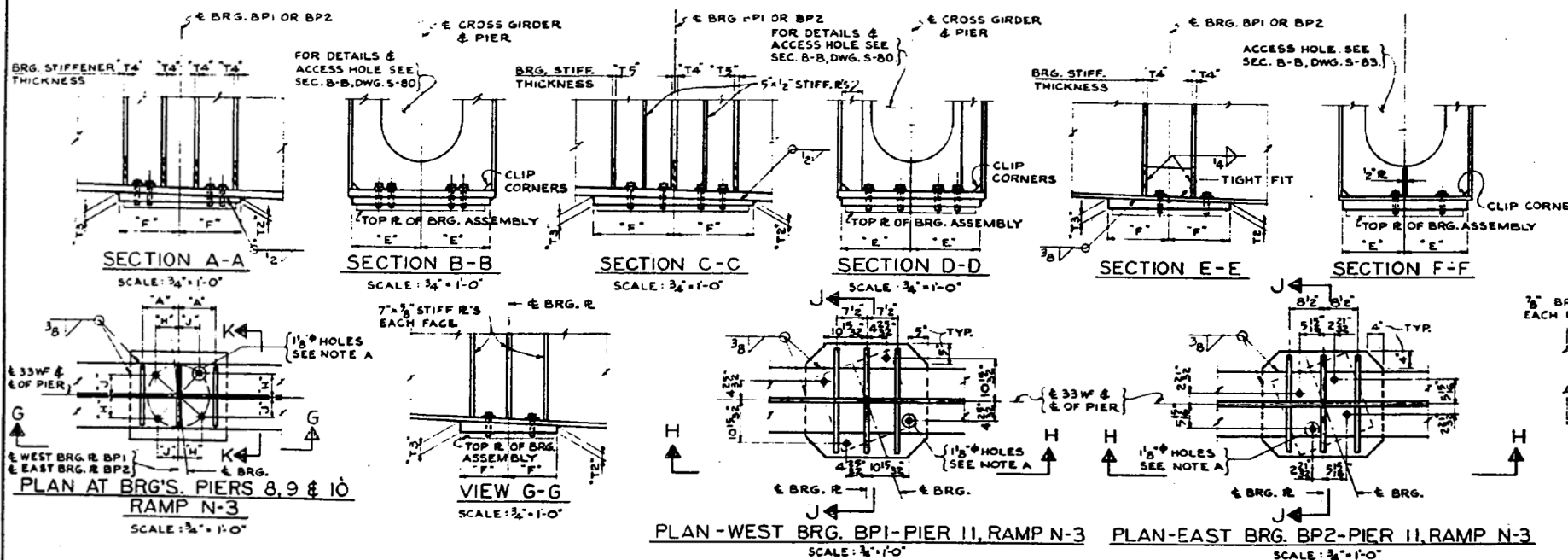
STRUCTURE REMOVAL PLANS
 EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

SHEET NO. SX76 OF SX150 SHEETS

F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	695
				CONTRACT NO. 64C08
ILLINOIS FED. AID PROJECT				



LOCATION	BRG. NO.	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'	N'	O'	P'	Q'	R'	S'	T'	U'	V'	W'	X'	Y'	Z'
PIER 8 N.B.	BP1	4'	10'																								
	BP2	4'	8'																								
PIER 9 N.B.	BP1	4'	12'																								
	BP2	4'	9'																								
PIER 10 N.B.	BP1	7'																									
	BP2	6'																									
PIER 8 S.B.	BP1	6'																									
	BP2	6'																									
PIER 9 S.B.	BP1	6'																									
	BP2	6'																									
PIER 10 S.B.	BP1	6'																									
	BP2	6'																									
PIER 8 RAMP N-3	BP1	8'																									
	BP2	9'																									
PIER 9 RAMP N-3	BP1	9'																									
	BP2	9'																									
PIER 10 RAMP N-3	BP1	8'																									
	BP2	9'																									



DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY J. A. BARRAZA
DRAWN BY R. K. MILLER
CHECKED K. S. MARTINS
IN CHARGE E. S. MARTINS
APPROVED W. G. HORN

NOTE: FOR LIMITS OF D.L. TENSION IN FLANGES SEE GIRDER ELEVATIONS, DWG'S. S-79 & S-82.

MISCELLANEOUS STEEL DETAILS
UNIT 'C', N.B. & RAMP N-3
F.A.L. 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 256 + 20
SCALE: AS NOTED DATE:



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME: 0810178-AB321-002-Contract AB Demo_Rasters.brg
MODEL: 68 Contract AB

USER NAME: ksnider
PLOT SCALE: 1/18/2017

DESIGNED - AWH	REVISD -
CHECKED - AJK	REVISD -
DRAWN - KMS	REVISD -
CHECKED - AJK	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

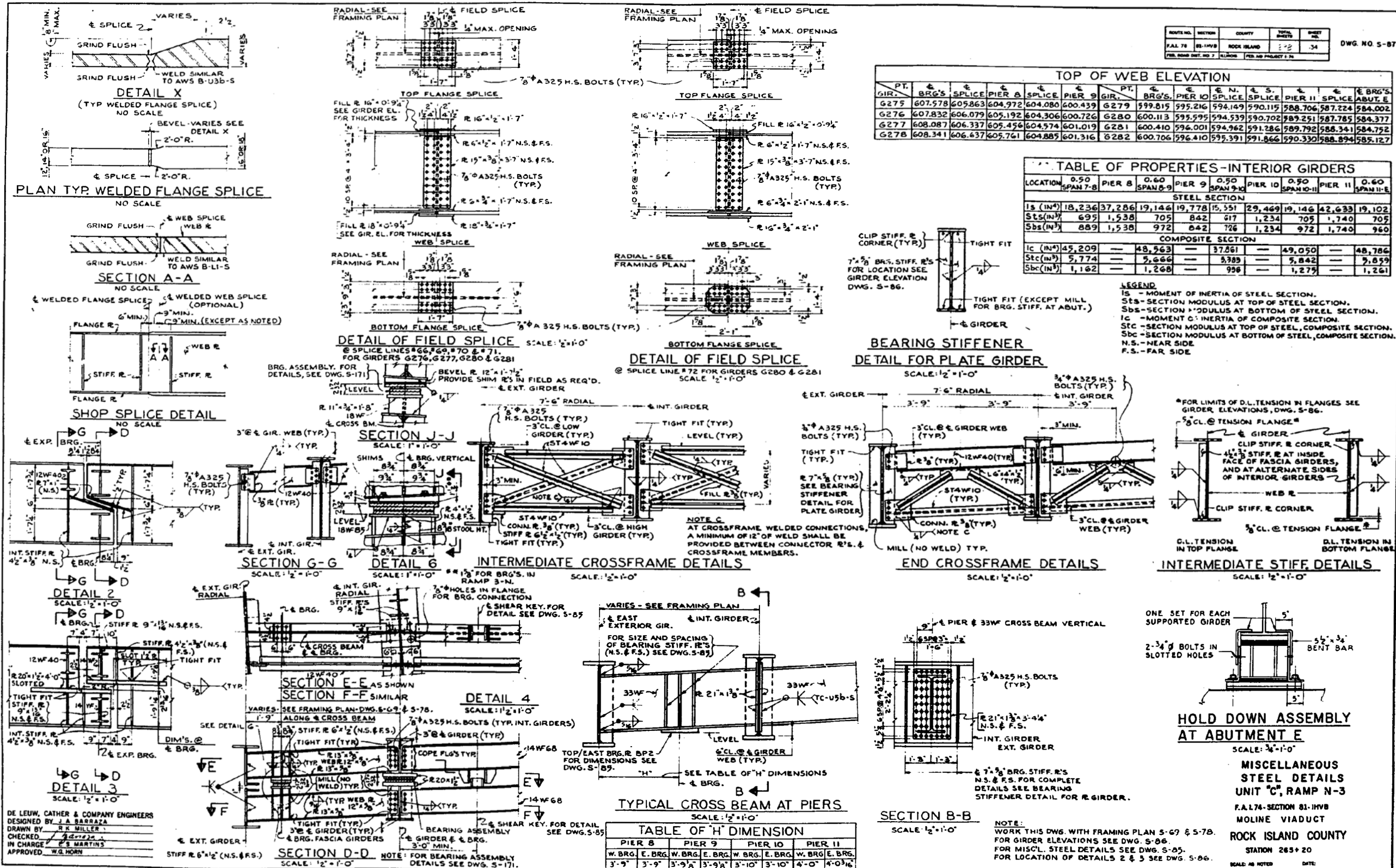
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

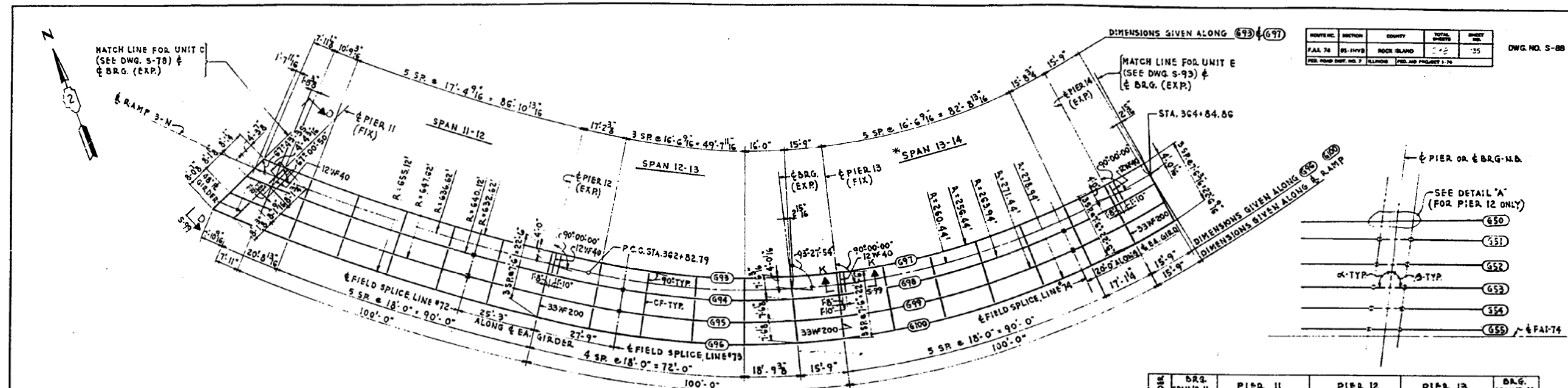
SHEET NO. SX77 OF SX150 SHEETS

F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	696
CONTRACT NO. 64C08				

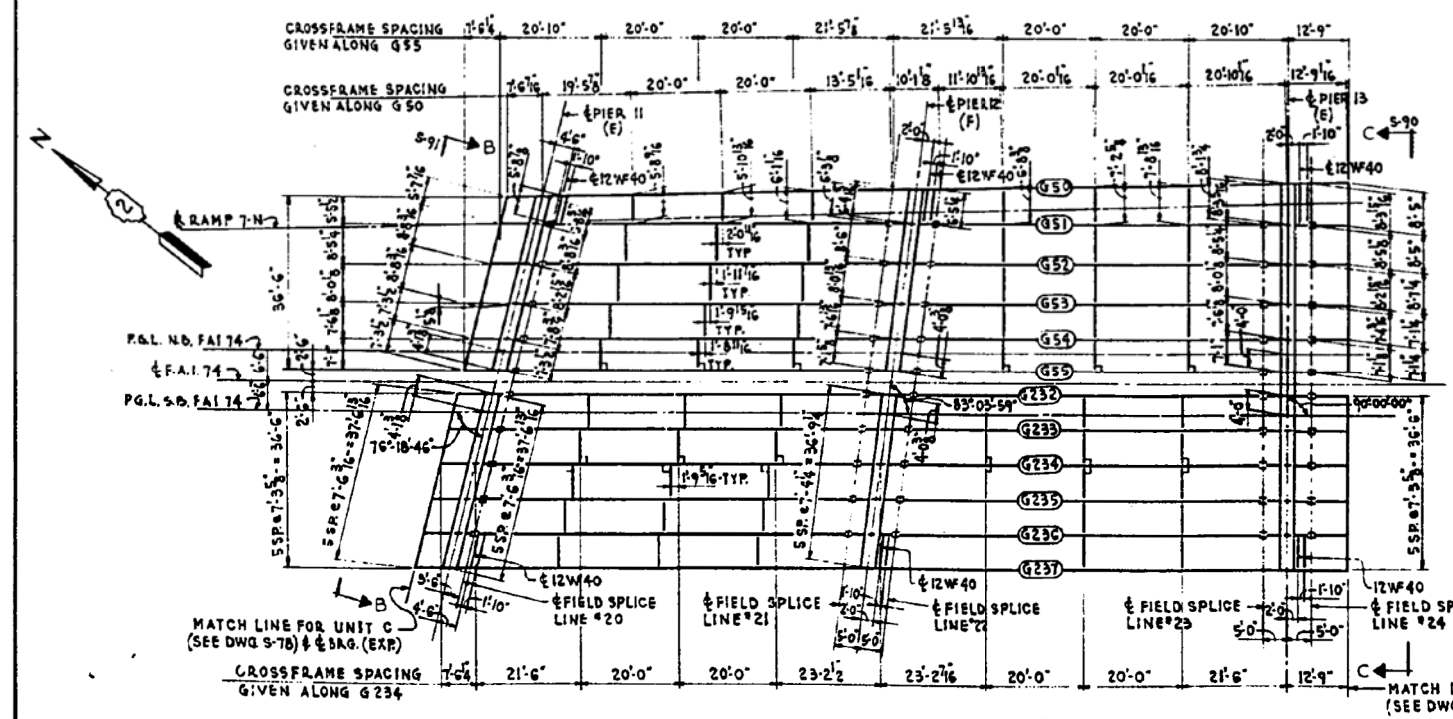
ILLINOIS FED. AID PROJECT

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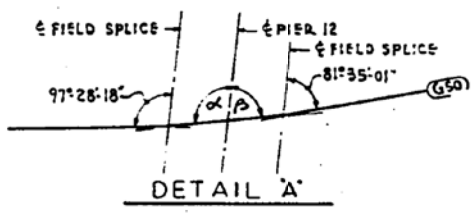
FRAMING PLAN UNIT D RAMP 3-N
SCALE: 1/16"=1'-0"



FRAMING PLAN-UNIT D
SCALE: 1/16"=1'-0"

NOTE:
SEE SECTION B-B ON DWG. S-91.
SEE SECTION C-C ON DWG. S-90.
SEE SECTION D-D ON DWG. S-99.
SEE SECTION X-K ON DWG. S-99

GIRDER	BRG. SPAN 10-11	PIER 11	PIER 12	PIER 13	BRG. SPAN 13-14
G50	75°46'32"	104°13'28"	75°46'32"	97°56'40"	82°03'20"
G51	76°18'46"	103°41'14"	76°18'46"	96°56'01"	83°03'59"
G52	73°08'02"	106°51'55"	"	"	91°29'01"
G53	76°18'46"	103°41'14"	"	"	88°30'59"
G54	76°18'46"	103°41'14"	"	"	90°00'00"
G55	"	"	"	"	91°29'01"



NOTE:
GIRDER DENOTES 90°00'00"
CROSSFRAME

*
HEAT CURVING OR COLD BENDING GIRDERS TO OBTAIN
CURVATURE WILL NOT BE PERMITTED

DE LEUN, CATHER & COMPANY ENGINEERS
DESIGNED BY J. BARRAZA
DRAWN BY A. BARRAZA
CHECKED K. J. BARRAZA
IN CHARGE E. S. MARTINS
APPROVED W. G. HORN

FRAMING PLAN-UNIT D
MAINLINE AND RAMP 3-N
F.A.I. 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1HVB	ROCK ISLAND	1504	699
CONTRACT NO. 64C08				

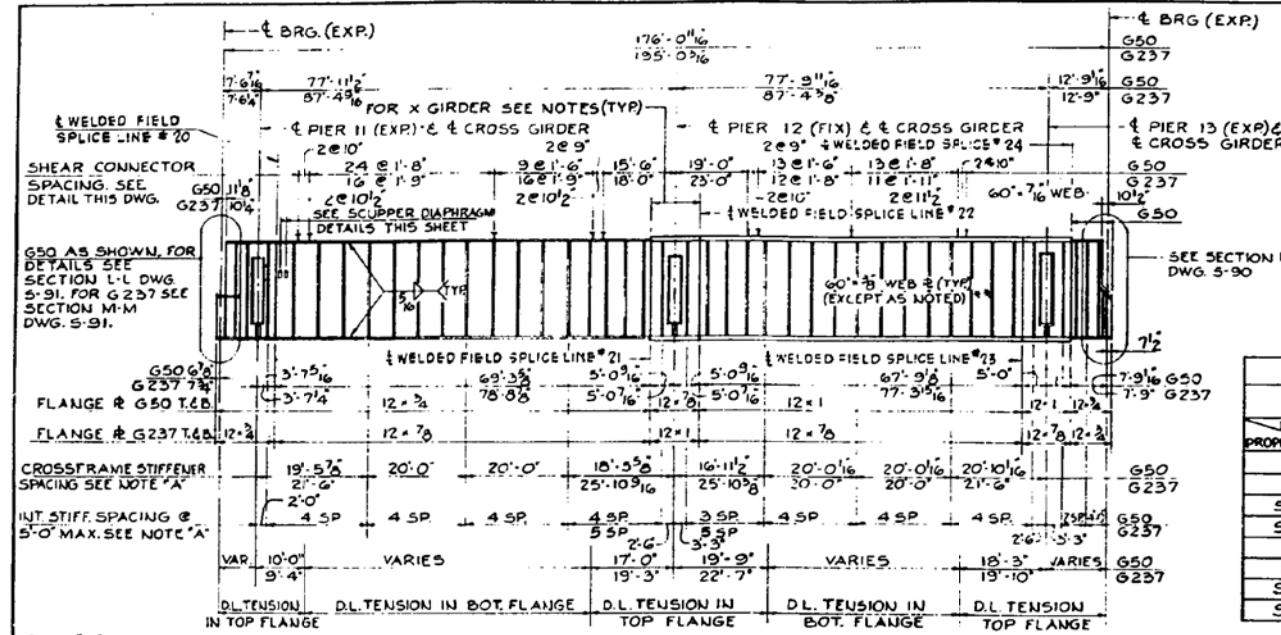
FILE NAME : 0810178-A0321-002-Contract AB Demo_Rasters.brg
MODEL : 71 Contract AB

USER NAME : ksnider
PLOT SCALE :
PLOT DATE : 1/18/2017

DESIGNED - AWH
CHECKED - AJK
DRAWN - KMS
CHECKED - AJK
REVISED -
REVISED -
REVISED -
REVISED -

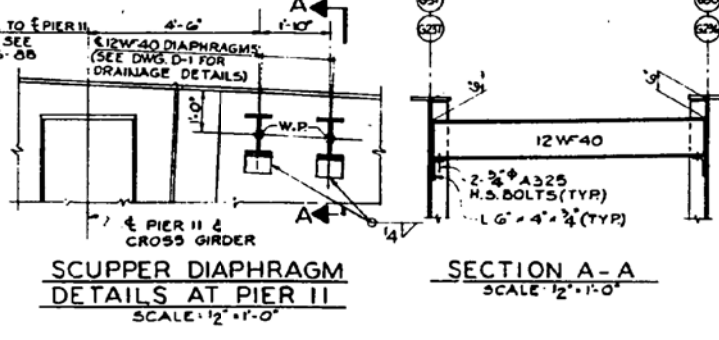
SHEET NO. SX80 OF SX150 SHEETS

ILLINOIS FED. AID PROJECT



GIRDER	TABLE OF DIMENSIONS															
	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R	S
G51	177.44	7.64	78.64	78.64	12.9	DO	18.84	18.84	DO	70.14	68.64	7.9	2.01			
G52	179.44	7.64	79.64	79.64	12.9	DO	18.84	18.84	DO	70.14	69.64	7.9	2.01			
G53	181.44	7.64	80.64	80.64	12.9	DO	18.84	18.84	DO	70.14	70.64	7.9	2.01			
G54	183.44	7.64	81.64	81.64	12.9	DO	18.84	18.84	DO	70.14	71.64	7.9	2.01			
G55	185.44	7.64	82.64	82.64	12.9	DO	18.84	18.84	DO	70.14	72.64	7.9	2.01			
G232	186.44	7.64	83.64	83.64	12.9	DO	18.84	18.84	DO	70.14	73.64	7.9	2.01			
G233	187.44	7.64	84.64	84.64	12.9	DO	18.84	18.84	DO	70.14	74.64	7.9	2.01			
G234	188.44	7.64	85.64	85.64	12.9	DO	18.84	18.84	DO	70.14	75.64	7.9	2.01			
G235	189.44	7.64	86.64	86.64	12.9	DO	18.84	18.84	DO	70.14	76.64	7.9	2.01			
G236	190.44	7.64	87.64	87.64	12.9	DO	18.84	18.84	DO	70.14	77.64	7.9	2.01			

LOCATION	TABLE OF PROPERTIES - INTERIOR GIRDERS															
	PROPERTY	G51, G52, G53, G54 & G55	G232, G233, G234, G235 & G236													
STEEL SECTION	IS	23,358	23,358	26,206	29,078	29,078	23,358	26,206	29,078	26,206	26,206					
	SLS	760	760	849	938	938	760	849	938	849	849					
	SBS	760	760	849	938	938	760	849	938	849	849					
	IC	—	56,811	—	65,309	—	—	60,409	—	59,850	—					
COMPOSITE SECTION	SIC	—	7,467	—	7,188	—	—	6,764	—	6,554	—					
	SBC	—	1,054	—	1,234	—	—	1,144	—	1,137	—					

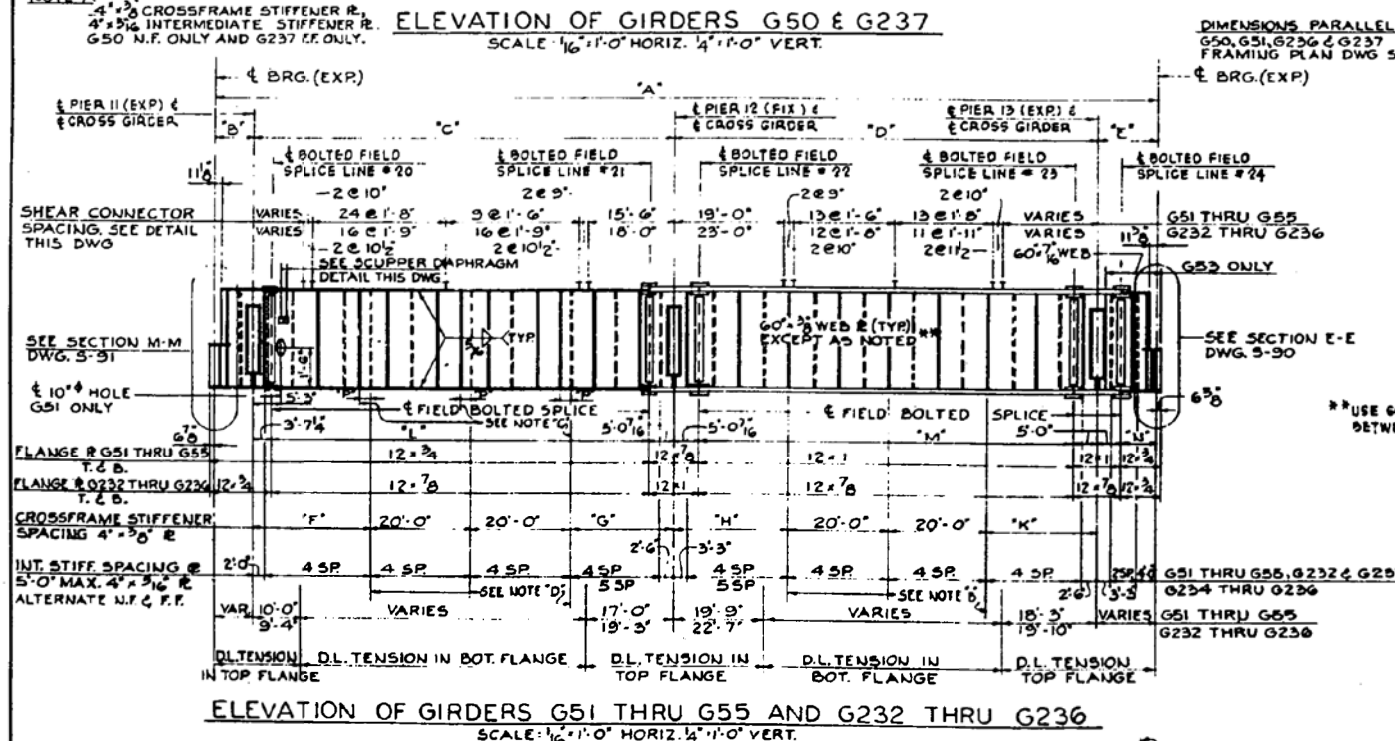


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	81-11VBR	ROCK ISLAND	156	136

TABLE OF MOMENTS (FT. KIPS)					
INTERIOR GIRDERS					
LOCATION	PIER II	0.50 SPAN II-12	PIER 12	0.50 SPAN 12-13	PIER 13
DEAD LOAD	-345.8	358.1	-621.4	232.0	-648.1
S.D.L.	-103.0	125.8	-194.5	75.0	-203.1
LIVE LOAD	-323.7	729.5	-470.4	719.9	-576.7
IMPACT	-74.4	175.1	-112.9	172.8	-126.9
TOTAL COMP.	-	1030.4	-	967.7	-
TOTAL STEEL	-846.9	358.1	-1339.2	232.0	-854.8

TABLE OF REACTIONS (KIPS)					
INTERIOR GIRDERS					
LOCATION	PIER II	0.40 SPAN II-12	PIER 12	0.50 SPAN 12-13	PIER 13
DEAD LOAD	-294.9	395.5	-705.12	237.1	-596.6
S.D.L.	-99.3	141.4	-169.7	99.9	-203.1
LIVE LOAD	-286.3	718.1	-488.9	698.8	-503.5
IMPACT	-65.9	172.3	-117.6	167.7	-110.8
TOTAL COMP.	-	1031.8	-	960.4	-
TOTAL STEEL	-746.4	395.5	-1482.4	237.1	-841.0

TABLE OF REACTIONS (KIPS)					
INTERIOR GIRDERS					
LOCATION	EXP. BRG.	PIER II	PIER 12	PIER 13	EXP. BRG.
DEAD LOAD	42.6	83.8	87.3	90.4	44.6
S.D.L.	11.9	26.9	24.1	31.3	16.6
LIVE LOAD	48.8	64.9	69.4	72.2	49.6
IMPACT	10.7	14.9	16.7	15.9	10.5
TOTAL	114.0	190.5	197.5	209.8	121.3



TOP OF WEB ELEVATION															
POINT	N.F. EXP. BEARING	PIER II	SPLICE	SPLICE	PIER 12	SPLICE	SPLICE	PIER 13	SPLICE	N.F. EXP. BEARING					
G50	604.793	604.792	604.792	604.563	604.541	604.518	604.258	604.242	604.225	604.206					
G51	604.997	604.961	604.945	604.715	604.693	604.670	604.419	604.398	604.378	604.357					
G52	605.208	605.170	605.150	604.881	604.856	604.830	604.547	604.525	604.502	604.473					
G53	605.357	605.308	605.290	604.977	604.949	604.921	604.613	604.592	604.570	604.544					
G54	605.483	605.436	605.415	605.076	605.047	605.017	604.681	604.659	604.636	604.608					
G55	605.621	605.563	605.537	605.175	605.144	605.112	604.749	604.727	604.704	604.674					
G232	605.595	605.542	605.517	605.139	605.112	605.087	604.765	604.742	604.720	604.690					
G233	605.567	605.499	605.463	605.083	605.057	605.031	604.707	604.684	604.662	604.632					
G234	605.544	605.459	605.419	605.026	605.000	604.974	604.641	604.618	604.596	604.566					
G235	605.526	605.431	605.386	604.970	604.944	604.917	604.570	604.547	604.525	604.496					
G236	605.514	605.401	605.358	604.917	604.891	604.865	604.502	604.479	604.457	604.428					
G237	605.506	605.418	605.377	604.912	604.886	604.860	604.478	604.454	604.433	604.413					

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	2412

GIRDER ELEVATIONS
 G-50 THRU G-55 AND G-232 THRU G-237
 F.A. 174-SECTION 81-11VBR
 MOLINE VIADUCT
 ROCK ISLAND COUNTY
 STATION 265 + 20
 SCALE: AS NOTED DATE: