

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAI ROUTE 255 (I-255)
SECTION 82-7HB-I
PROJECT: ACIM-255-7(217)021
BRIDGE JOINT REPAIRS
ST. CLAIR COUNTY

C-98-107-08

FOR INDEX OF SHEETS, SEE SHEET NO. 2

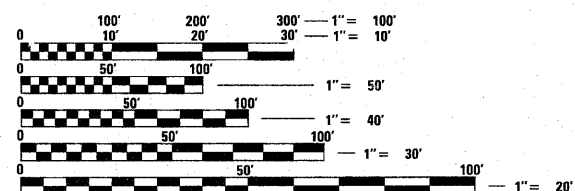
F.A.I. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-7HB-I	ST. CLAIR	43	1
		ILLINOIS	CONTRACT NO. 76C33	

DESIGN DESIGNATION

NA

ADT

SN 082-0217 I-255 NB TO IL 3 NB	SN 082-0218 IL 3 SB TO I-255 NB
ADT: 5200 (2008)	ADT: 400 (2008)
ADT: 6500 (2030)	ADT: 500 (2030)
SU%: 1.7%	SU%: 5.0%
MU%: 2.9%	MU%: 5.0%

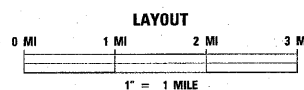
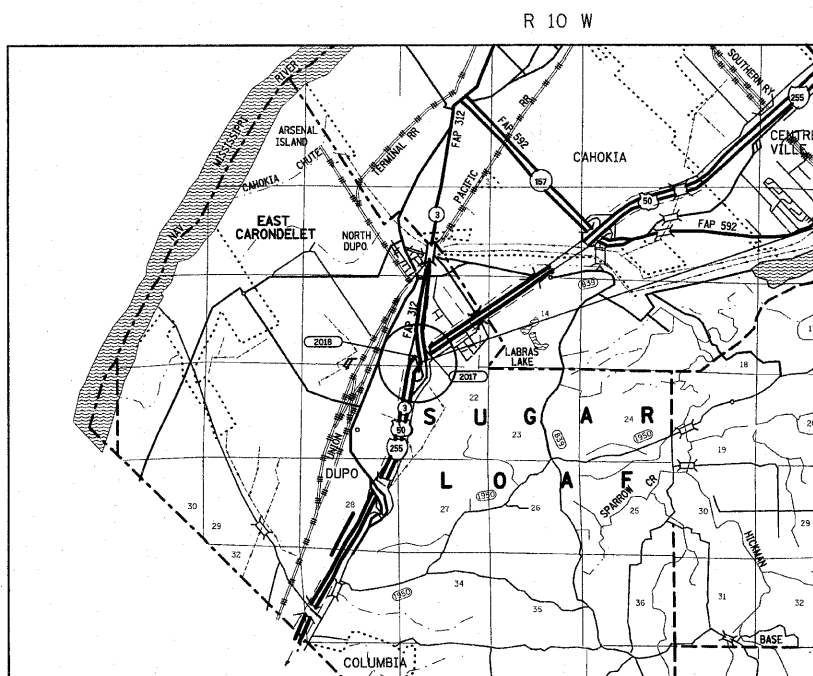


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER: PATTI LeBEAU (618) 346-3179
PROJECT MANAGER: ARTHUR MUEHLFELD (618) 346-3209

CONTRACT NO. 76C33



LATITUDE: 38.5301°
 LONGITUDE: 90.1962°

SN 082-0217 RAMP E
GROSS LENGTH = 1016.21 FT. = 0.192 MILE

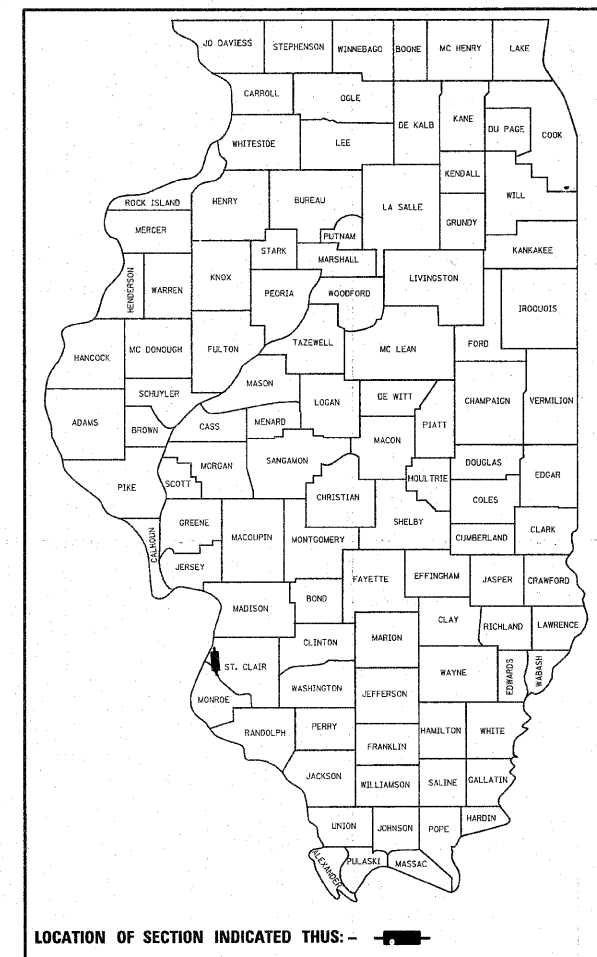
SN 082-0218 RAMP F
GROSS LENGTH = 1111.13 FT. = 0.210 MILE

7 SPAN R/C DECK WITH PRECAST DECK PANELS COMPOSITE WITH PLATE GIRDERS OVER I-255

SN 082-0217
 (RAMP E - NB I-255 TO NB IL 3)
 @ STA 48+33.63

SN 082-0218
 (RAMP F - SB IL 3 TO NB I-255)
 @ STA 131+68.03

D-98-113-08



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Aug 12 20 2010
K. C. Rami
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

October 1 20 10
Scott E. Stitt P.E. /s/
 acting ENGINEER OF DESIGN AND ENVIRONMENT

October 1 20 10
Christine M. Reed /s/
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			URBAN 90% FED. / 10% STATE	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014		
28100107	STONE RIPRAP, CLASS A4	SQ YD	164	164		
28200200	FILTER FABRIC	SQ YD	164	164		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	38	38		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	89	89		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	100	100		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	42	42		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	500	500		
45200300	JOINT OR CRACK FILLING	POUND	70	70		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	15	15		
50102400	CONCRETE REMOVAL	CU YD	60.7	60.7		
50300100	FLOOR DRAINS	EACH	4	4		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	57.6	57.6		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6930	6930		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	97	97		
52000216	FINGER PLATE EXPANSION JOINT, 5"	FOOT	132	132		
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	140.5	140.5		
58700300	CONCRETE SEALER	SQ FT	80151	80151		
66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	100	100		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10		
67100100	MOBILIZATION	L SUM	1	1		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	300	300		
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	4209	4209		
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1503	1503		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3	3		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	400	400		
X5080600	MECHANICAL SPLICERS	EACH	280	280		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	100	100		
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	100	100		
Z0018800	DRAINAGE SYSTEM	L SUM	1	1		
Z0073350	TEMPORARY SLAB SUPPORT SYSTEM	EACH	4	4		
00042	Z0076000 TRAINEES	HOURL	500	500		

INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES, INDEX OF SHEETS, HIGHWAY
STANDARDS, GENERAL NOTES, & COMMITMENTS
- 3 TYPICAL SECTION
- 4 SCHEDULES OF QUANTITIES & DETAILS
- 5 PLAN & PROFILE SHEET
- 6-7 DETOUR SIGNING
- 8-23 STRUCTURE PLANS
- 24-43 EXISTING STRUCTURE PLANS FOR REFERENCE ONLY

HIGHWAY STANDARDS

000001-05	701451-01
001001-02	701901-01
001006	780001-02
701400-04	781001-03

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - * AMERENIP (GAS & ELECTRIC)
 - * CHARTER COMMUNICATIONS, INC. (CABLE TV)
 - * CITY OF COLUMBIA (WATER & SANITARY SEWER)
 - * VILLAGE OF DUPO (WATER & SANITARY SEWER)
 - * VILLAGE OF DUPO (GAS)
 - * HARRISONVILLE TELEPHONE CO. (COMMUNICATIONS)
 - * PRAIRIE DU PONT PUBLIC WATER (WATER)
 - * SUGAR LOAF TOWNSHIP SEWER SYSTEM (SANITARY SEWER)

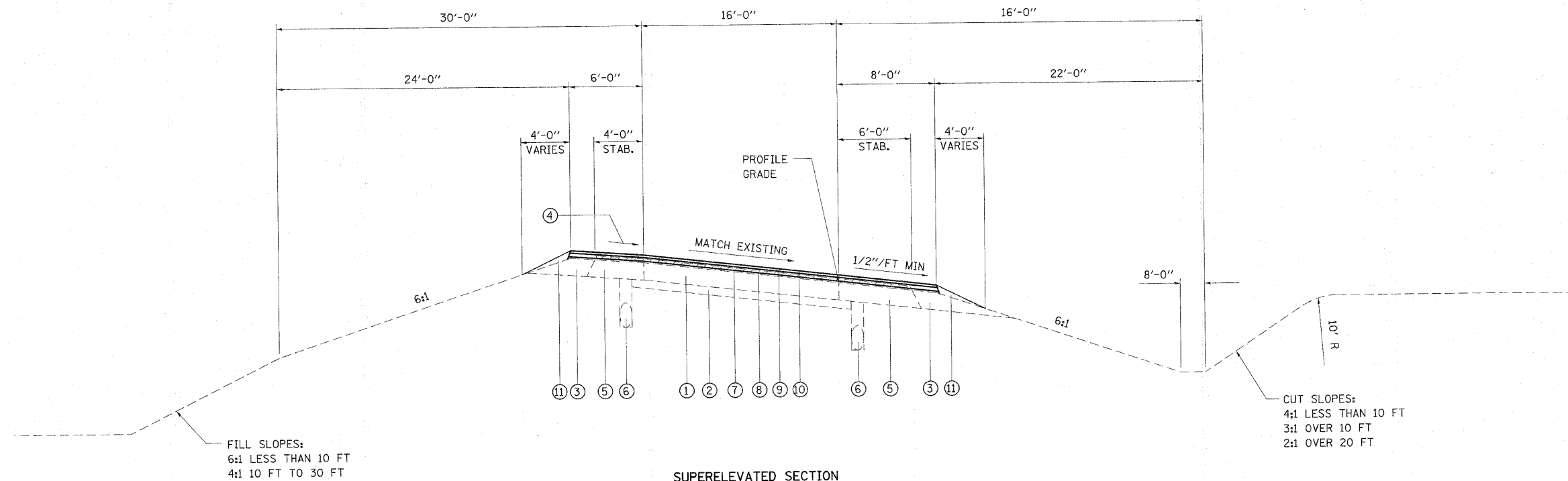
MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *.
NON-MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
4. PAVEMENT MARKING REMOVAL SHALL BE BY WATER BLAST METHOD.
5. THE DETOUR SIGNING WILL BE PAID FOR UNDER CONTRACT #76882. THE SIGNS FOR THE CLOSURE OF THE BRIDGE OVER THE UPRR SHALL REMAIN UP FOR THE DURATION OF THAT PROJECT, COORDINATE WITH CONTRACT #76882.
6. ANY AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE SEEDED (TEMPORARY AND PERMANENT) AT THE CONTRACTOR'S EXPENSE AND NO OTHER COMPENSATION WILL BE PERMITTED.
7. PROPOSED PAVEMENT MARKINGS SHALL COORDINATE WITH EXISTING PAVEMENT MARKINGS. "POLYUREA PAVEMENT MARKING - LINE 4 INCH" SHALL BE USED ON CONCRETE. "THERMOPLASTIC PAVEMENT MARKING - LINE 4 INCH" SHALL BE USED ON HMA.
8. THE COST TO GRADE, SMOOTH, OR OTHERWISE FILL WITH SOIL ALL IRREGULARITIES IN THE AREA TO BE COVERED WITH FILTER FABRIC SHALL BE INCLUDED IN THE COST OF "FILTER FABRIC".

COMMITMENTS

NONE

**Specialty Items*

FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-sh-t-plan.dgn		DRAWN -	REVISED -			255	82-7HB-I	ST. CLAIR	43	2
PLOT SCALE = 5/8" = 1' / IN.		CHECKED -	REVISED -						CONTRACT NO. 76C33	
PLOT DATE = 8/11/2010		DATE -	REVISED -						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	
					SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		



FILL SLOPES:
6:1 LESS THAN 10 FT
4:1 10 FT TO 30 FT

SUPERELEVATED SECTION

RAMP "F"
STA. 36+48.60 TO STA. 37+98.60

CUT SLOPES:
4:1 LESS THAN 10 FT
3:1 OVER 10 FT
2:1 OVER 20 FT

LEGEND

- ① EXISTING CONTINUOUSLY REINFORCED P.C.C. PAVEMENT 8"
- ② EXISTING STABILIZED SUB-BASE 4"
- ③ EXISTING AGGREGATE SHOULDERS, TYPE B
- ④ THE EXISTING WIDTH OF SHOULDERS ADJACENT TO THE PAVEMENT SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND THE SHOULDER WILL NOT BE GREATER THAN 0.07 FT/FT
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS 8"
- ⑥ EXISTING PIPE UNDERDRAIN 4" (STANDARD 2327)
- ⑦ EXISTING HOT-MIX ASPHALT, VARIABLE DEPTH
- ⑧ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE, 1 1/2"
- ⑩ PROPOSED LEVELING BINDER, VARIES 3/4" TO 5"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -
en:\pwork\pwt\dot\owenbj\name56743\d876833-shtr-plen.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES, AND COMMITMENTS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-7HB-I	ST. CLAIR	43	3
CONTRACT NO. 76C33				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

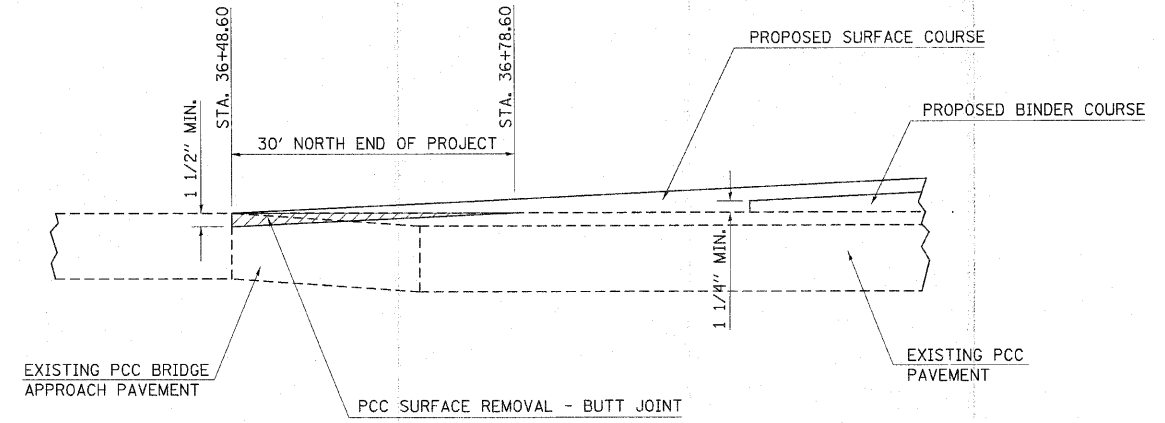
PAVEMENT SCHEDULE

LOCATION	HMA SURFACE REMOVAL, 1 1/2"	PCC SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIALS (PRIME COAT)	LEVELING BINDER	HMA SURFACE COURSE	AGGREGATE WEDGE SHOULDERS, TYPE B	HMA SHOULDER CURB
SN 082-0218	SQ YD	SQ YD	GAL	TONS	TON	TON	FOOT
STA 36+48.60 TO STA 37+98.60	500	100	38	89	42	15	100
SUBTOTALS							
TOTALS	500	100	38	89	42	15	100

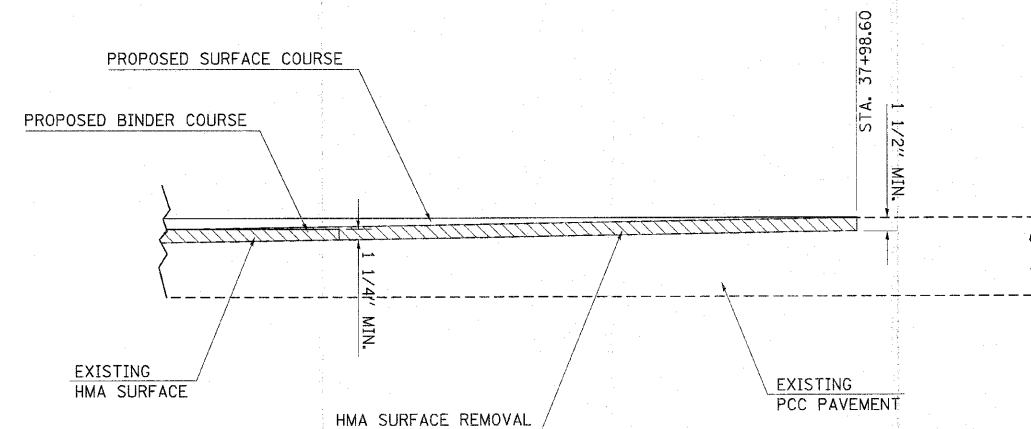
PAVEMENT MARKING SCHEDULE

LOCATION	PAVEMENT MARKING REMOVAL	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"			THERMOPLASTIC PAVEMENT MARKING - LINE 4"		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) EACH
		SOLID		SKIP-DASH	SOLID			
		WHITE	YELLOW	WHITE	WHITE	YELLOW		
SN 082-0217	SQ FT	FT	FT	FT	FT	FT		
STA 43+25.53 TO STA 53+41.74	762.2	1016.2	1016.2	254.2			3	3
SN 082-0218								
STA 126+87.47 TO STA 131+73.25	323.9	485.8	485.8					
STA 31+73.25 TO STA 36+48.60	316.9	475.4	475.4			150	150	
STA 36+48.60 TO STA 37+98.60	100.0							
SUBTOTALS		1977.4	1977.4	254.2	150	150		
TOTALS	1503	4209			300		3	3

STATION EQUATION: STA.131+73.25 BK = STA 31+73.25 AHEAD



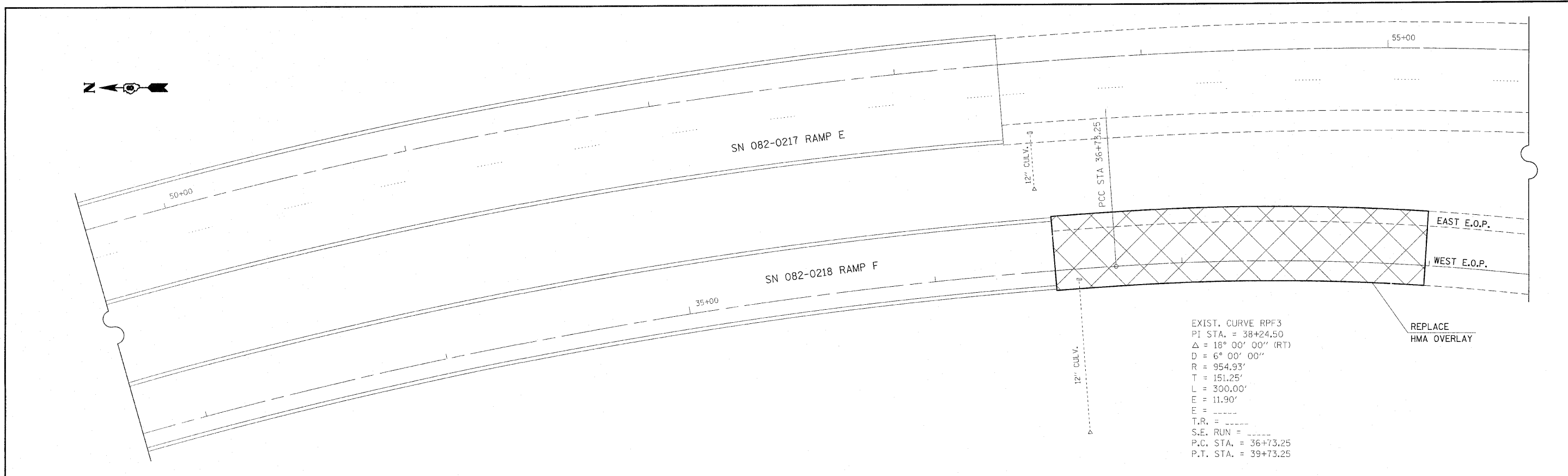
BUTT JOINT DETAIL



HMA SURFACE REMOVAL DETAIL

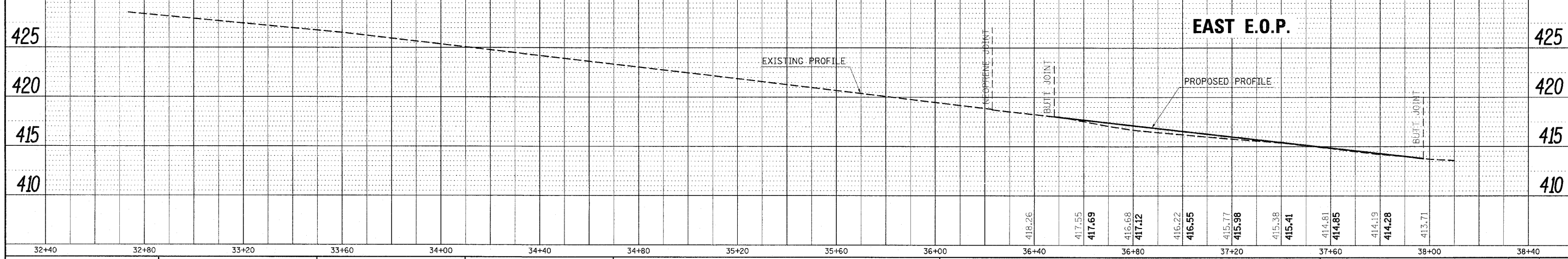
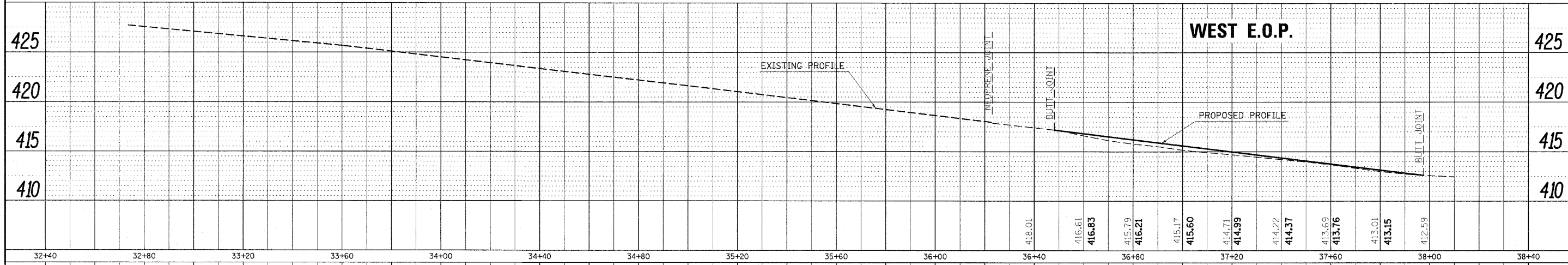
DATE: _____ BY: _____
 SURVEYED: _____
 PLAN: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 SURVEYED: _____
 PROFILE: _____
 NOTE BOOK: _____
 NO. _____

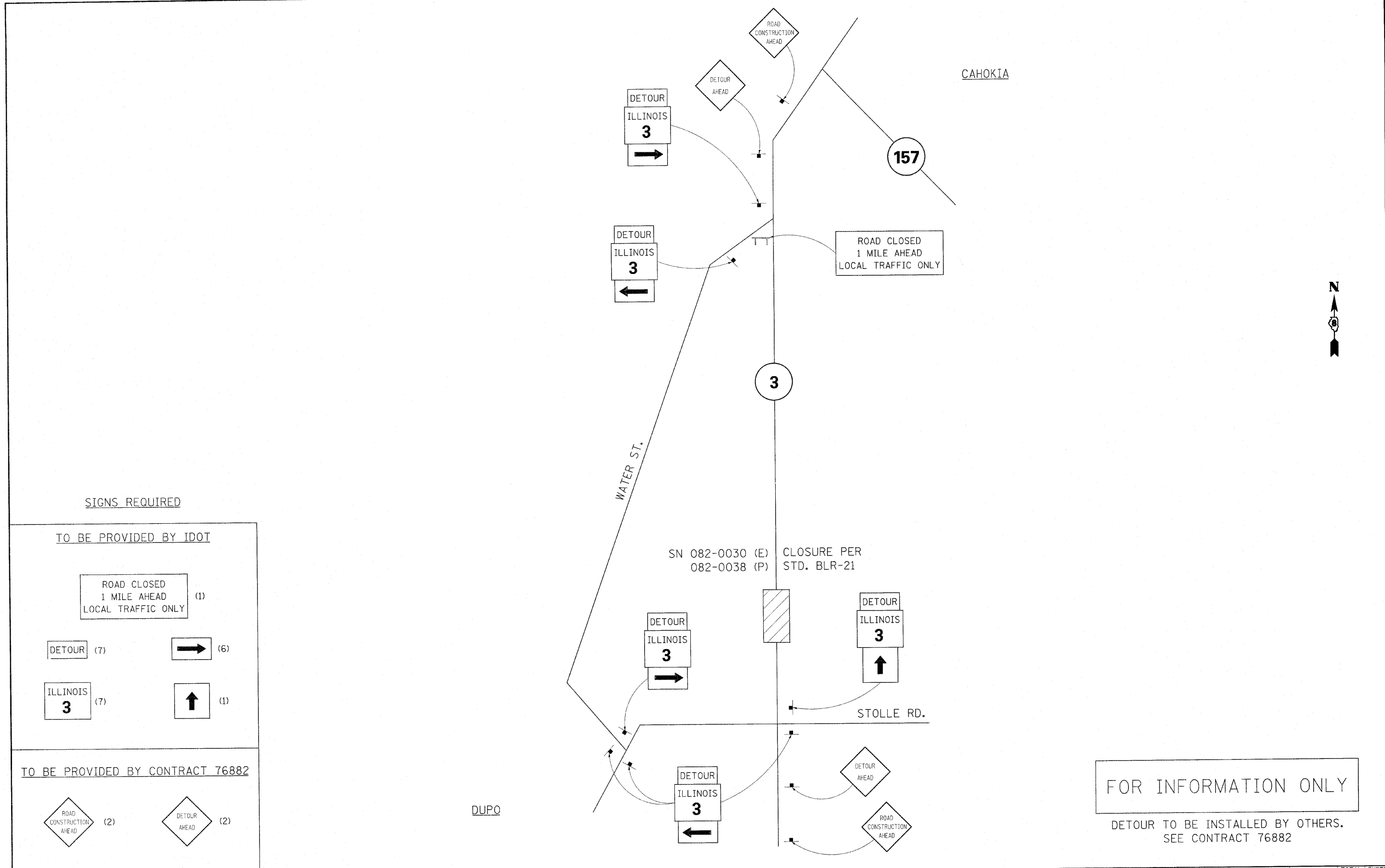


EXIST. CURVE RPF3
 PI STA. = 38+24.50
 $\Delta = 18^\circ 00' 00''$ (RT)
 $D = 6^\circ 00' 00''$
 $R = 954.93'$
 $T = 151.25'$
 $L = 300.00'$
 $E = 11.90'$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 36+73.25$
 $P.T. STA. = 39+73.25$

REPLACE
 HMA OVERLAY



FILE NAME =	USER NAME = owebj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAMP F PROFILES				F.A.T. TOTAL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
o:\pwork\pwork\owebj\dms66748\d876c33	sht-plan.dgn	CHECKED -	REVISED -		255	82-THB-I	ST. CLAIR	43	5				
PLOT SCALE = 20,0000' / IN.		DRAWN -	REVISED -		CONTRACT NO. 76C33								
PLOT DATE = 8/11/2010		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								



SIGNS REQUIRED

TO BE PROVIDED BY IDOT

- ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY (1)
- DETOUR (7) → (6)
- ILLINOIS 3 (7) ↑ (1)

TO BE PROVIDED BY CONTRACT 76882

- ROAD CONSTRUCTION AHEAD (2)
- DETOUR AHEAD (2)

FOR INFORMATION ONLY

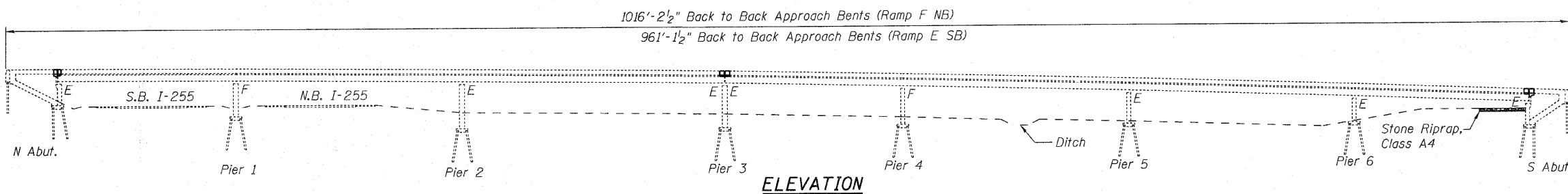
DETOUR TO BE INSTALLED BY OTHERS. SEE CONTRACT 76882

FILE NAME =	USER NAME = owerbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 3 DETOUR (LOCAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pwork\pwork\dot\owerbj\dms05746\d876	33-shr-p1an.dgn	DRAWN -	REVISED -			255	82-7HB-1	ST. CLAIR	43	7	
PLOT SCALE = 50.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 76C33					
PLOT DATE = 8/10/2010		DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

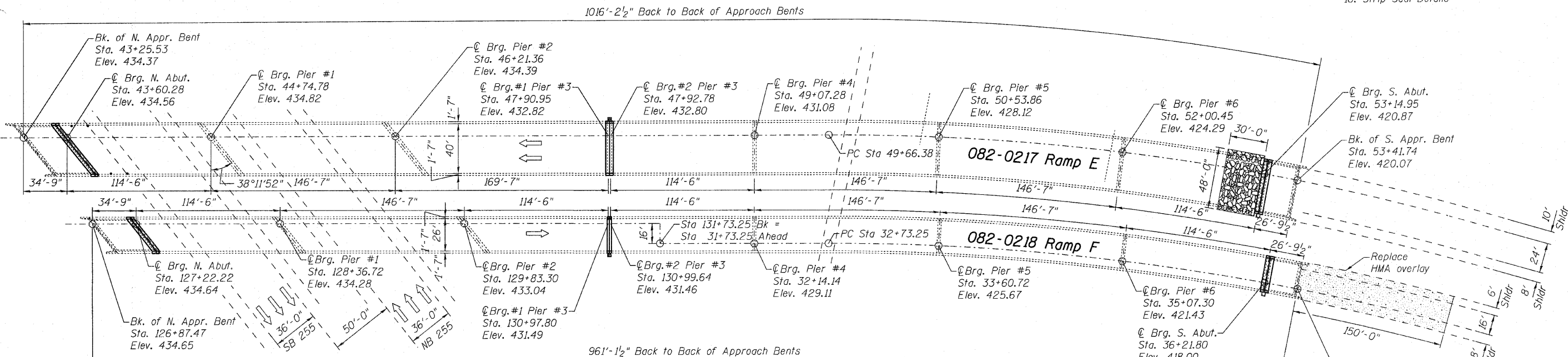
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET INDEX

1. General Plan & Elevation
2. General Notes
3. North Abutment Concrete Replacement - Ramp E
4. North Abutment Concrete Replacement - Ramp F
5. Pier 3 Concrete Replacement - Ramp E
6. Pier 3 Concrete Replacement - Ramp F
7. South Abutment Concrete Replacement - Ramp E
8. South Abutment Concrete Replacement - Ramp F
9. Pier 3 Finger Plate - Ramp E
10. Pier 3 Finger Plate - Ramp F
11. Pier 3 Finger Plate Details
12. South Abutment Finger Plate - Ramp E
13. South Abutment Finger Plate - Ramp F
14. South Abutment Elevation - Ramps E & F
15. South Abutment Finger Plate Details
16. Strip Seal Details



ELEVATION



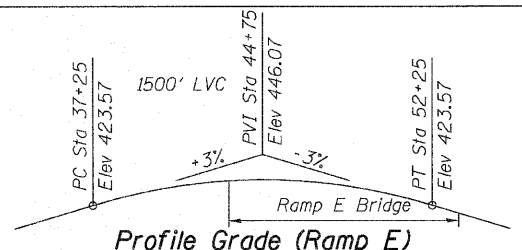
PLAN

CURVE DATA (Ramp E)

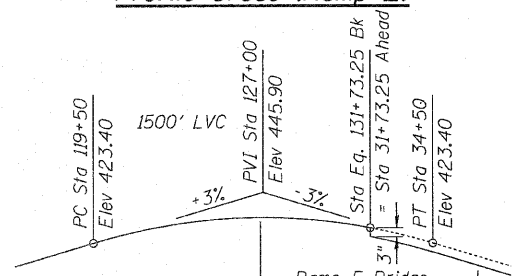
$\Delta = 53^{\circ}00'00''$
 $D = 3^{\circ}00'00''$
 $T = 952.22'$
 $E = 224.22'$
 $R = 1909.86'$
 $L = 1766.67'$
 $S.E. = 5.2\%$ attained
 $Sta\ 48+58.38\ to\ 50+20.38\ (162')$
 $P.C. = Sta.\ 49+66.38$
 $P.I. = Sta.\ 59+18.60$

CURVE DATA (Ramp F)

$\Delta = 12^{\circ}00'00''$
 $D = 3^{\circ}00'00''$
 $T = 200.73'$
 $E = 10.52'$
 $R = 1909.86'$
 $L = 400.00'$
 $S.E. = 5.2\%$ attained
 $Sta\ 131+73.25\ to\ 33+23.25\ (150')$
 $P.C. = Sta.\ 32+73.25$
 $P.I. = Sta.\ 34+73.98$



Profile Grade (Ramp E)



Profile Grade (Ramp F)

(PG shifts 16' right & drops 0.25' at the Sta Eq.)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	164
Filter Fabric	Sq. Yd.	164
Joint or Crack Filling	Pound	70
Concrete Removal	Cu. Yd.	60.7
Floor Drains	Each	4
Concrete Superstructure	Cu. Yd.	57.6
Reinforcement Bars, Epoxy Coated	Pound	6,930
Preformed Joint Strip Seal	Foot	97.0
Finger Plate Expansion Joint, 5"	Foot	132.0
Fabric Reinforced Elastomeric Trough	Foot	140.5
Concrete Sealer	Sq. Ft.	80,151
Structural Repair of Concrete (Depth <= 5")	Sq. Ft.	400
Mechanical Splicers	Each	280
Deck Slab Repair-Full Depth Type II	Sq. Yd.	100
Deck Slab Repair (Partial)	Sq. Yd.	100
Drainage System	L. Sum	1
Temporary Slab Support System	Each	4

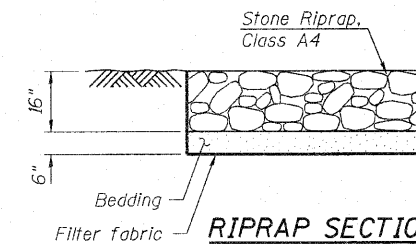
DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

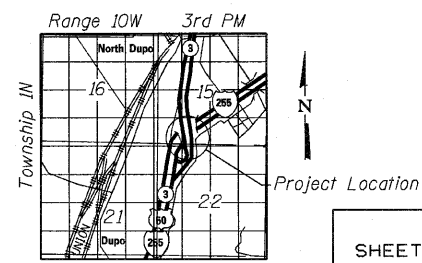
DESIGN STRESSES

FIELD UNITS

$f'c = 3,500\ psi$
 $f_y = 60,000\ psi\ (Reinforcement)$
 $f_y = 50,000\ psi\ (M270\ Grade\ 50)$



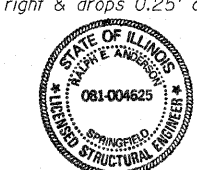
RIPRAP SECTION



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
SN 082-0217 & 0218

DESIGNED J. Uehle
 CHECKED A. Hallway
 DRAWN J. Uehle
 CHECKED A. Hallway
 November 5, 2010
 EXAMINED [Signature]
 PASSED [Signature]



Expires Nov. 30, 2012

SHEET NO. 1 16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-I	ST. CLAIR	43	8
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76C33					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts $\frac{3}{4}$ " ϕ , holes $\frac{7}{8}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 78,560 lbs.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The contractor shall support the vaulted abutment slabs, prior to removal of the ends of the slabs. No equipment will be allowed on the vaulted slabs while any portion of the slabs are removed. See special provisions for "Temporary Slab Support System".

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".

Existing structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surfaces of Existing Steel Structures".

Any reinforcement bars that are damaged during concrete removal shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

The cost of removal and re-installation of all members necessary to complete the work shall be included with "Finger Plate Expansion Joint, 5in."

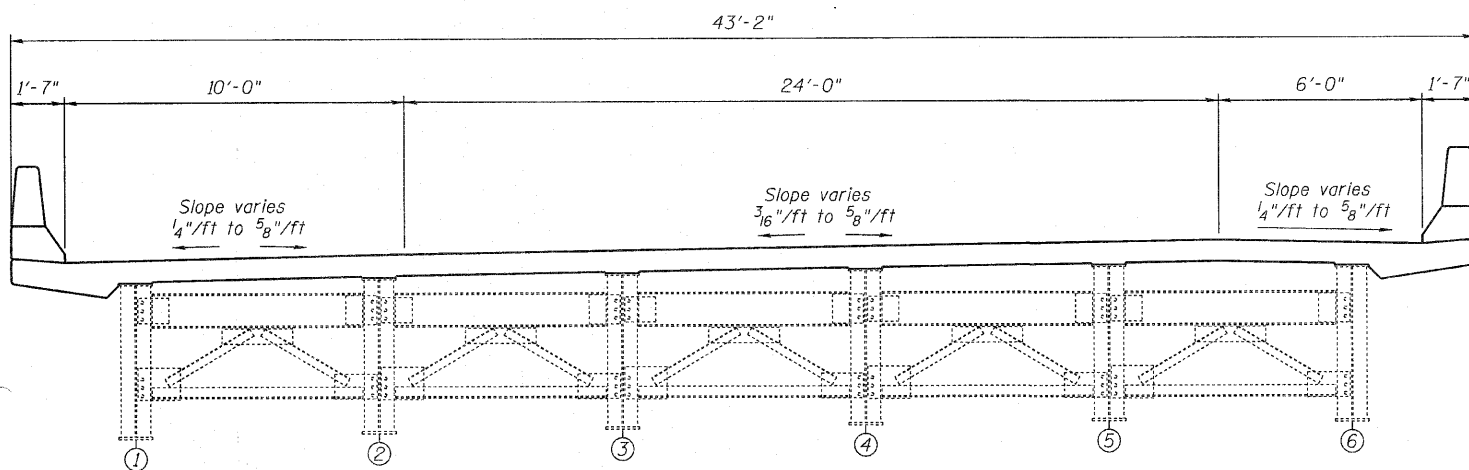
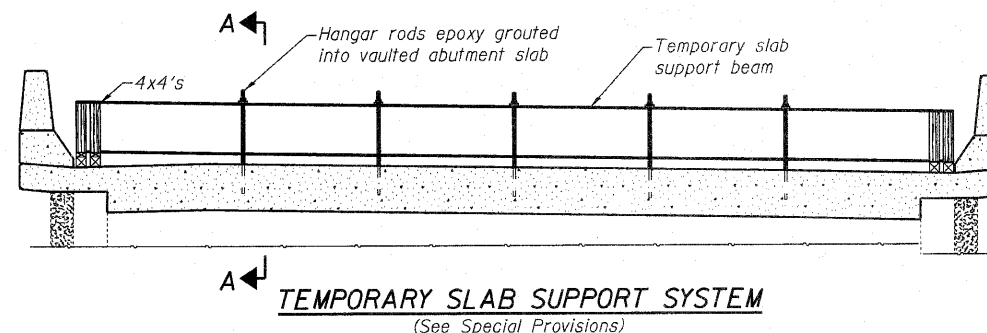
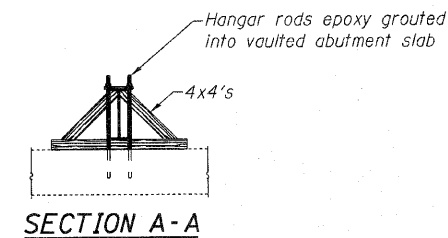
The deck surface shall be tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with "Concrete Superstructures".

All plates, bolts, anchor bolts, nuts, washers, and studs shall be galvanized according to AASHTO M111 or M232 as applicable.

The quantity for "Structural Repair of Concrete (Depth \leq 5") is for the north abutment and pier 3 caps.

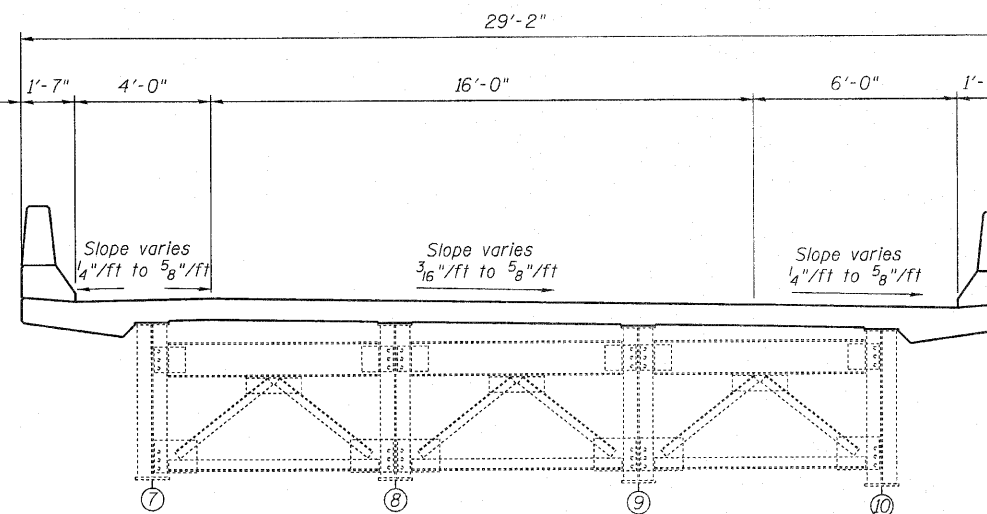
The quantity for "Joint or Crack Filling" is for the joints between all 4 vaulted abutment slabs and the approach slabs. It is also for the joints between the curtain wall stone facing and the slopewall aprons on each side of both north abutments. Quantities were calculated assuming $72.7\text{pct} \times \frac{3}{4} \times \frac{3}{4} \times 255' = 72 \text{ lb}$.

The quantity for "Concrete Sealer" is for the top of deck, top of parapets, and inside faces of parapets at new concrete areas.



O82-0217 NB RAMP E
(Looking South)

Varies 32'-10" (along tangent section)
decreasing to $\pm 31'$ (N. Abut)



O82-0218 SB RAMP F
(Looking South)

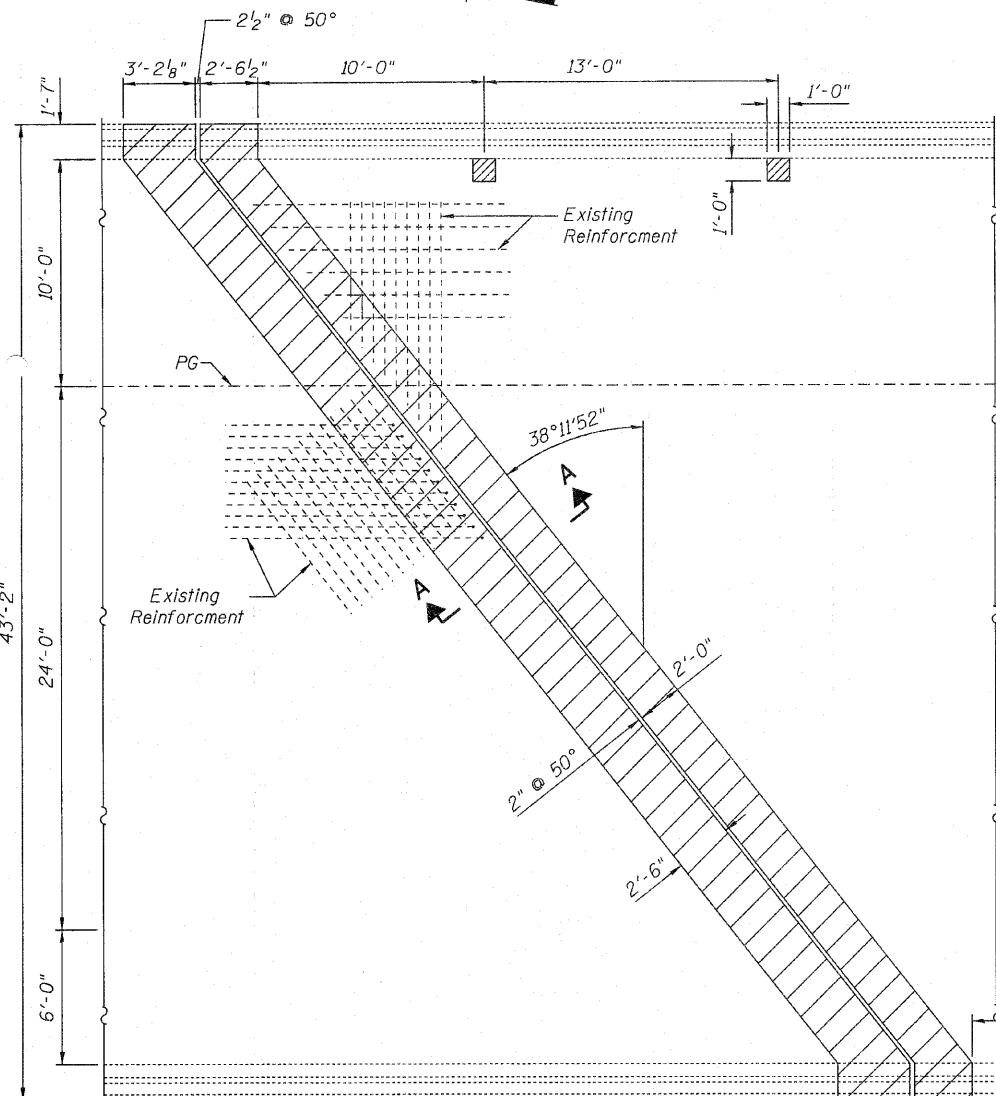
DESIGNED	J. Uehle
CHECKED	A. Hallway
DRAWN	J. Uehle
CHECKED	A. Hallway

EXAMINED	November 5, 2018 <i>A. Carl Poyner</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES

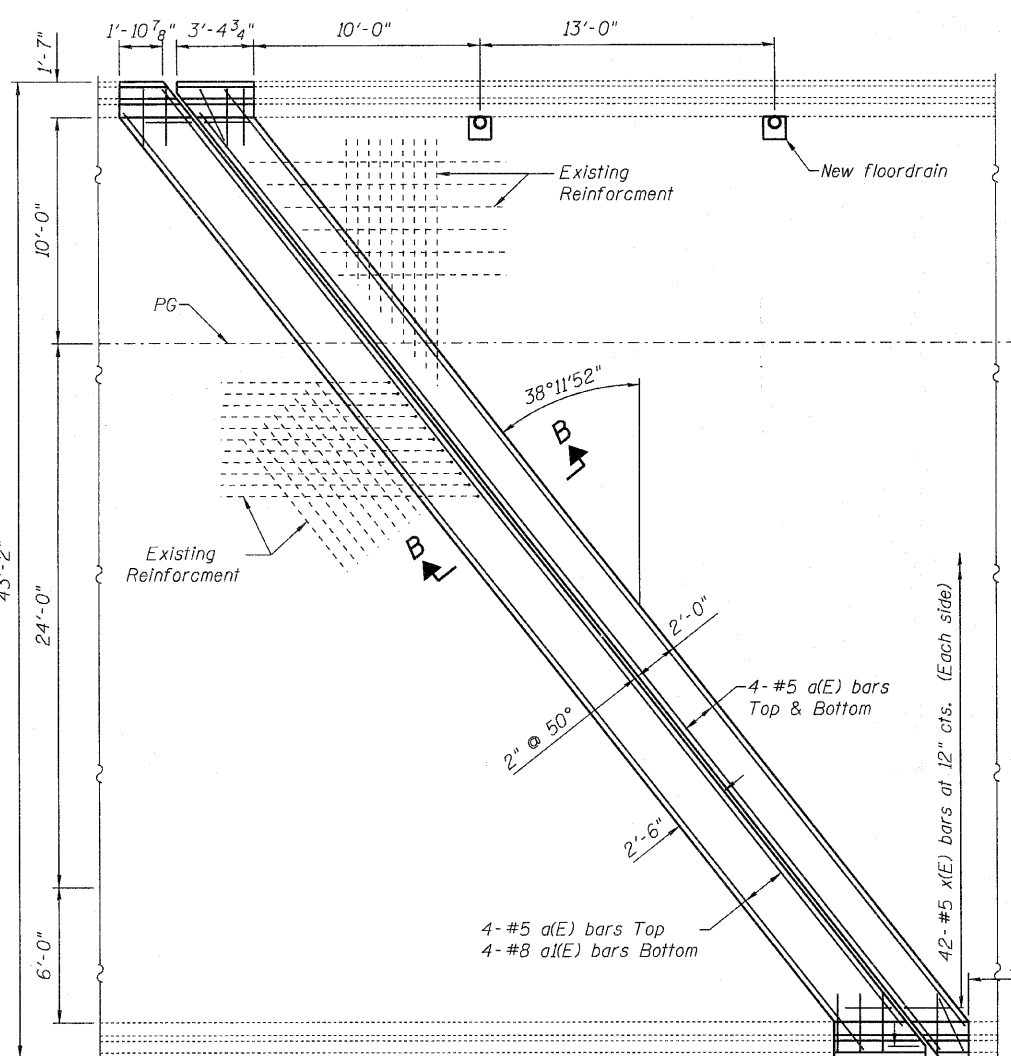
GENERAL NOTES
O82-0217 & 0218

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-I	ST. CLAIR	43	9
16 SHEETS	CONTRACT NO. 76C33			ILLINOIS FED. AID PROJECT	

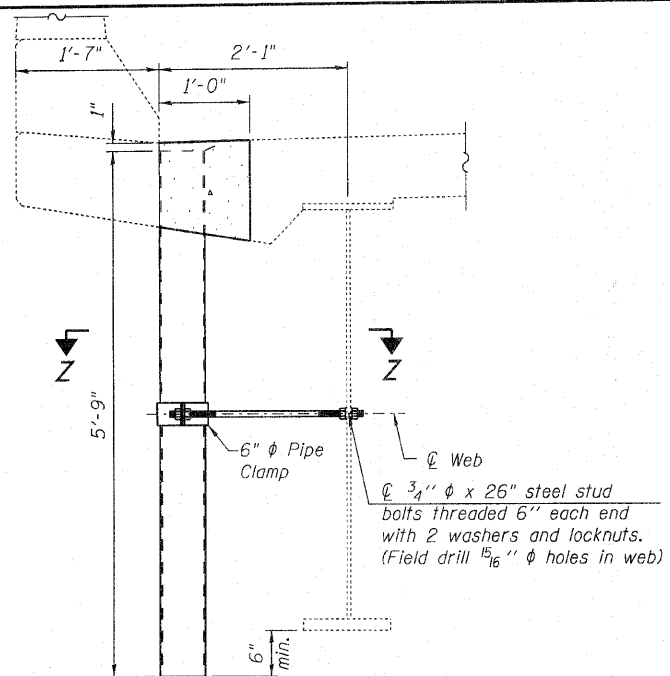
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



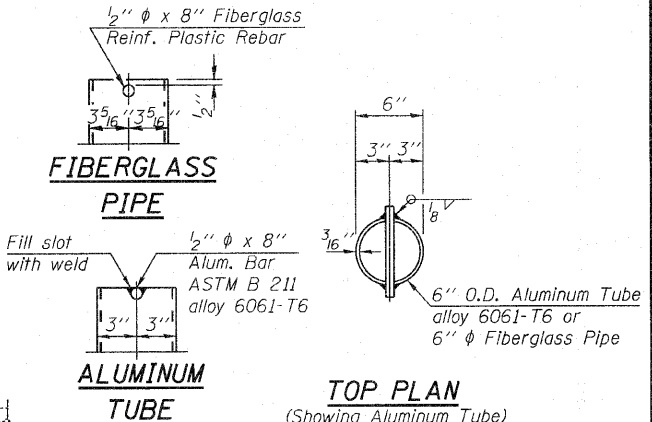
CONCRETE REMOVAL



CONCRETE REPLACEMENT



SECTION THRU NEW DRAIN



TOP PLAN (Showing Aluminum Tube)

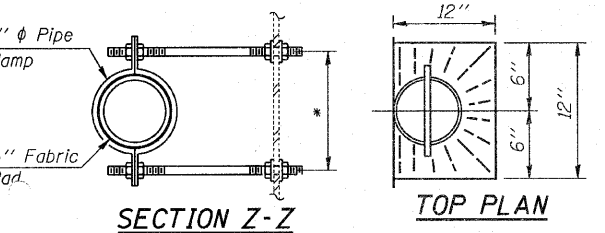
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	12	#5	52'-3"	—	
a(E)	4	#8	48'-0"	—	
d(E)	10	#5	5'-8"	L	
d(E)	10	#5	3'-11"	L	
x(E)	84	#5	2'-7"	C	
Reinforcement Bars, Epoxy Coated				Pound	1490
Concrete Superstructure				Cu. Yds.	13.7
Concrete Removal				Cu. Yds.	13.7

Bars indicated thus 4x2 - #5 etc. indicates 4 line of bars with 2 lengths per line.

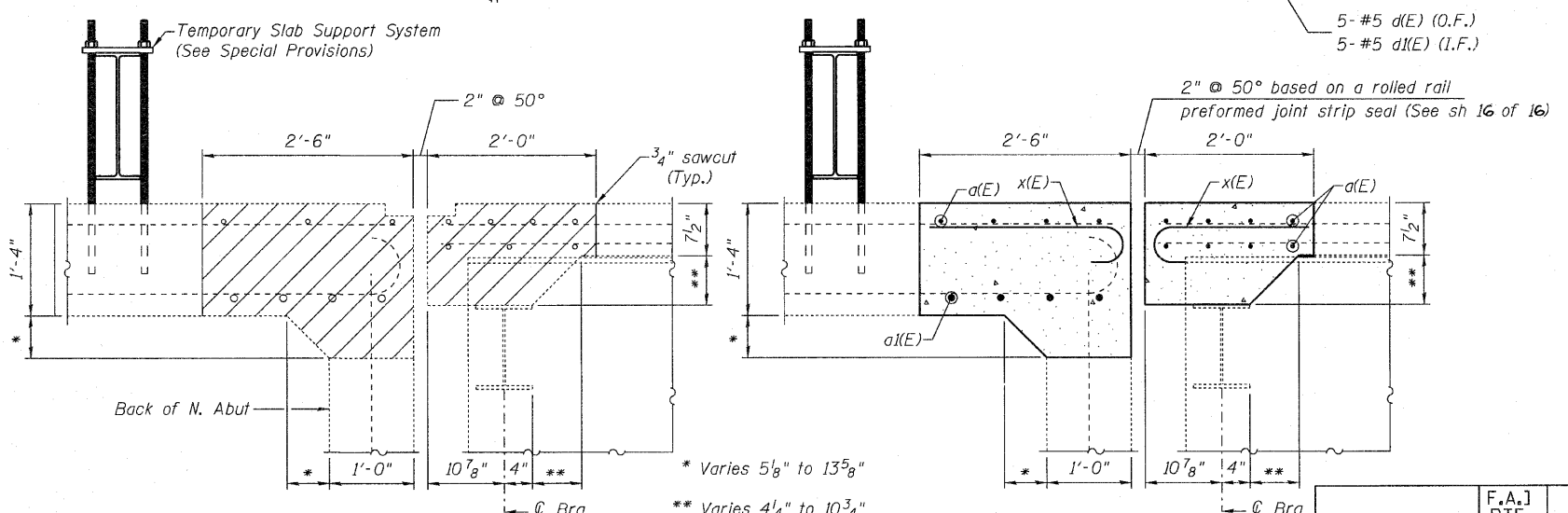
See sheet 4 of 16 for parapet sections and bar details.

RAMP E
N. ABUTMENT CONCRETE REPLACEMENT
082-0217 & 0218



TOP PLAN

SECTION Z-Z
*Dimension as required by Pipe Clamp



SECTION A-A

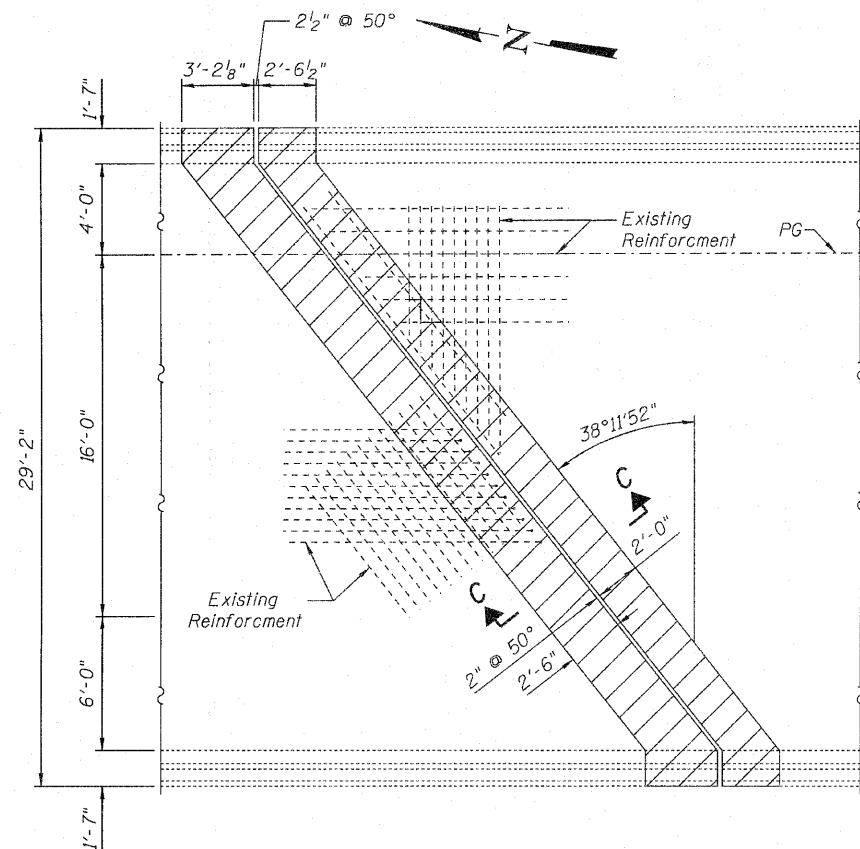
SECTION B-B

Notes:
The floor drains shall be painted to match the outside of the fascia beams.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232.
Cost of clamping device and inserts is included with Floor Drains.

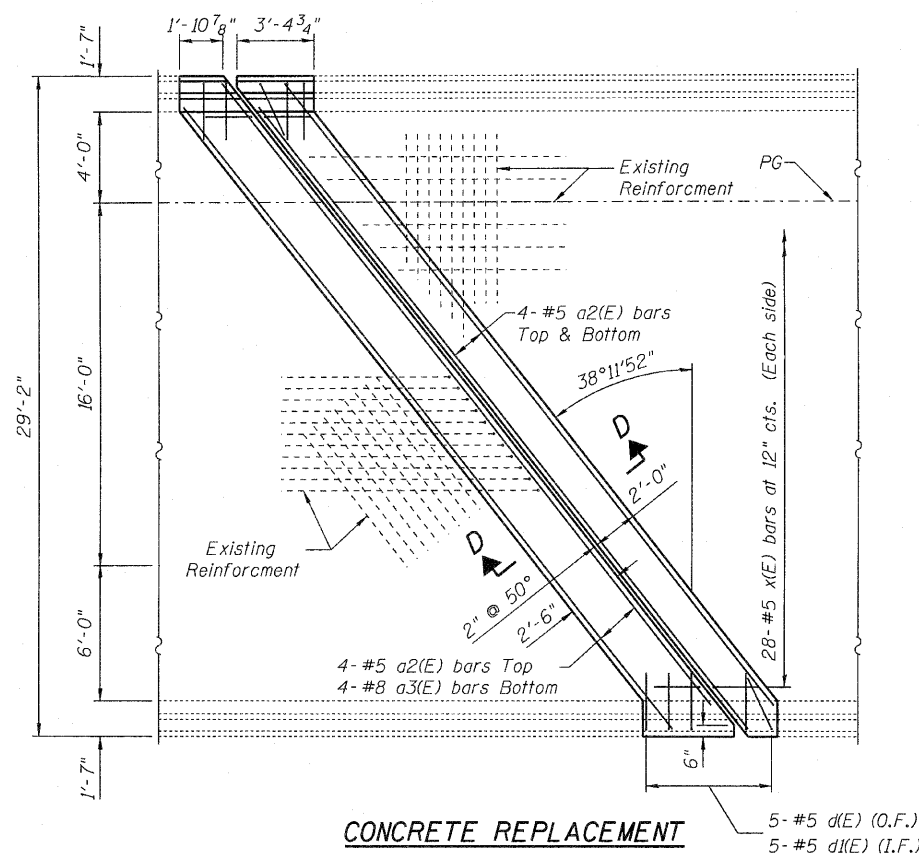
DESIGNED	J. Uehle	EXAMINED	<i>J. Cal. King</i>
CHECKED	A. Hallway	PASSED	<i>Ralph E. Anderson</i>
DRAWN	J. Uehle	ENGINEER OF BRIDGES AND STRUCTURES	
CHECKED	A. Hallway	November 5, 2010	

SHEET NO. 3 16 SHEETS	F.A.] RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	10
			CONTRACT NO.	76C33	
ILLINOIS FED. AID PROJECT					

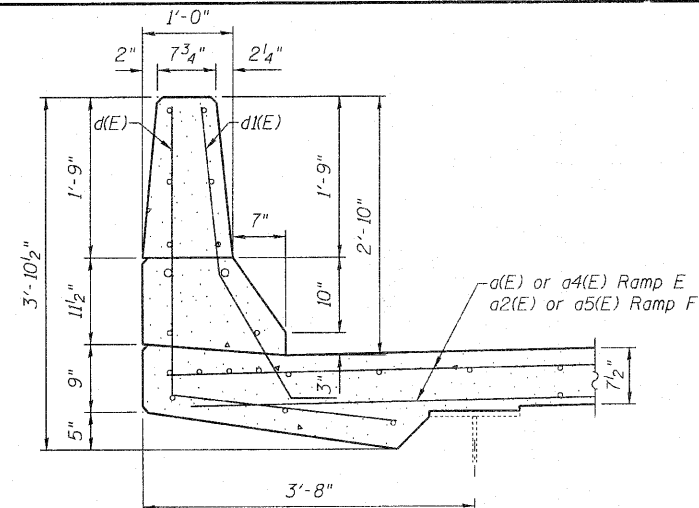
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



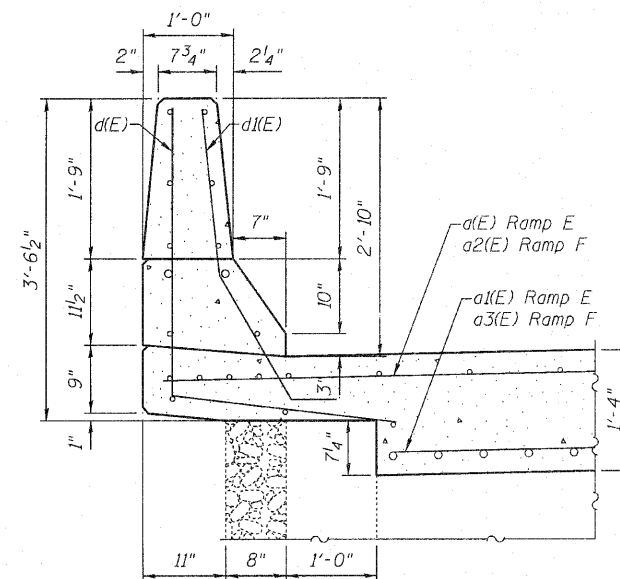
CONCRETE REMOVAL



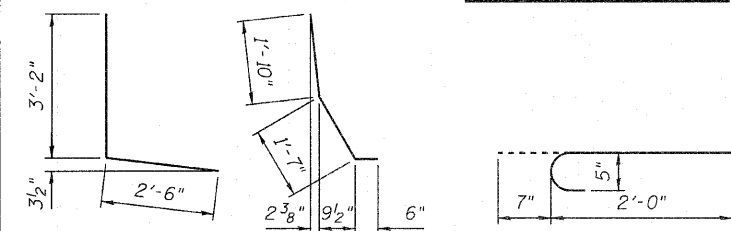
CONCRETE REPLACEMENT



DECK PARAPET SECTION



VAULTED N. ABUTMENT SLAB PARAPET SECTION



BAR d(E)

BAR d1(E)

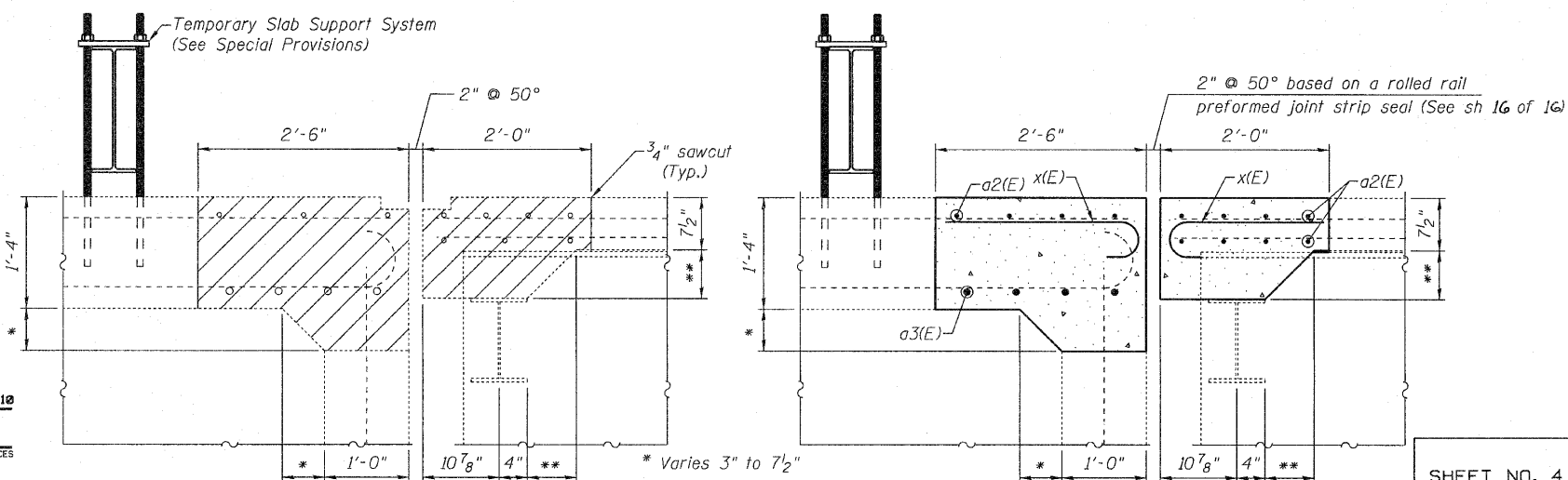
BAR x(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	12	#5	34'-6"	—
a3(E)	4	#8	30'-2"	—
d(E)	10	#5	5'-8"	L
d1(E)	10	#5	3'-11"	L
x(E)	56	#5	2'-7"	C
Reinforcement Bars, Epoxy Coated			Pound	1000
Concrete Superstructure			Cu. Yds.	8.6
Concrete Removal			Cu. Yds.	8.6

Bars indicated thus 4x2 - #5 etc. indicates 4 line of bars with 2 lengths per line.

RAMP F
N. ABUTMENT CONCRETE REPLACEMENT
082-0217 & 0218



SECTION C-C

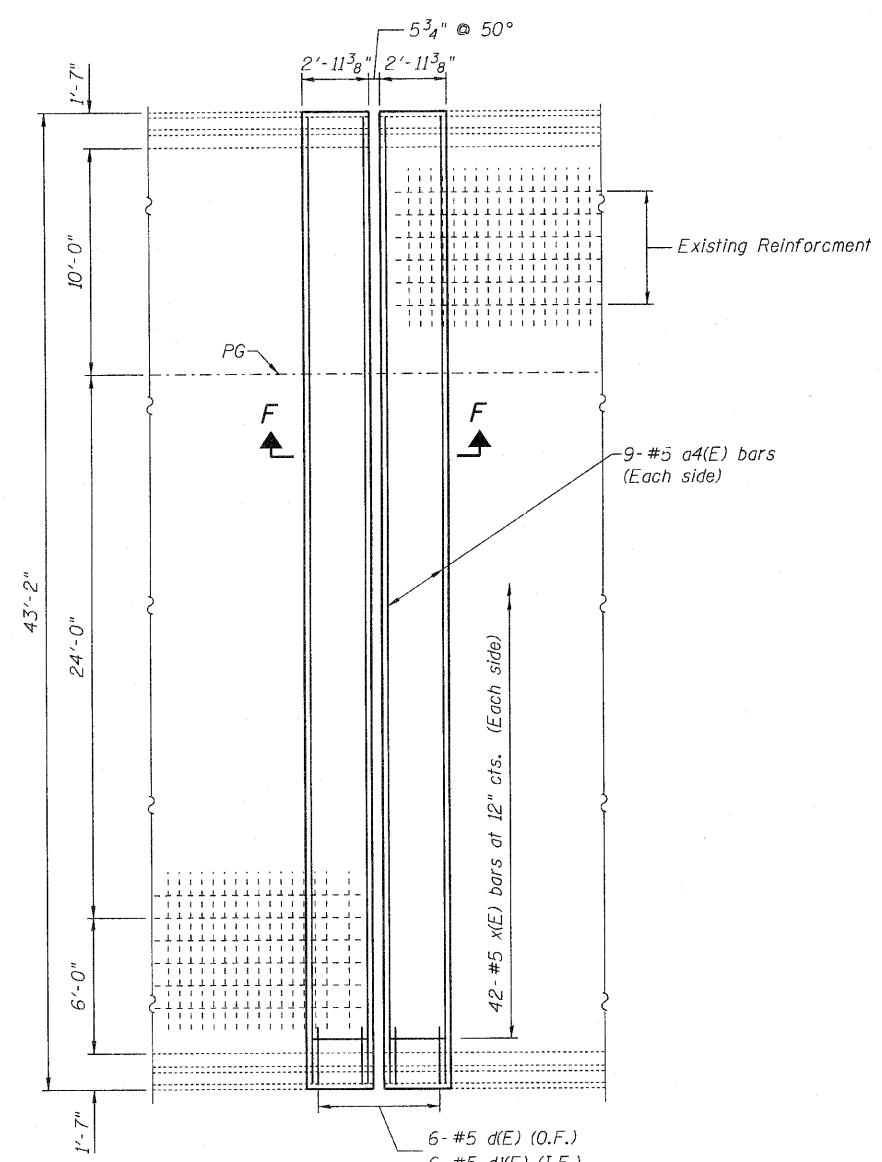
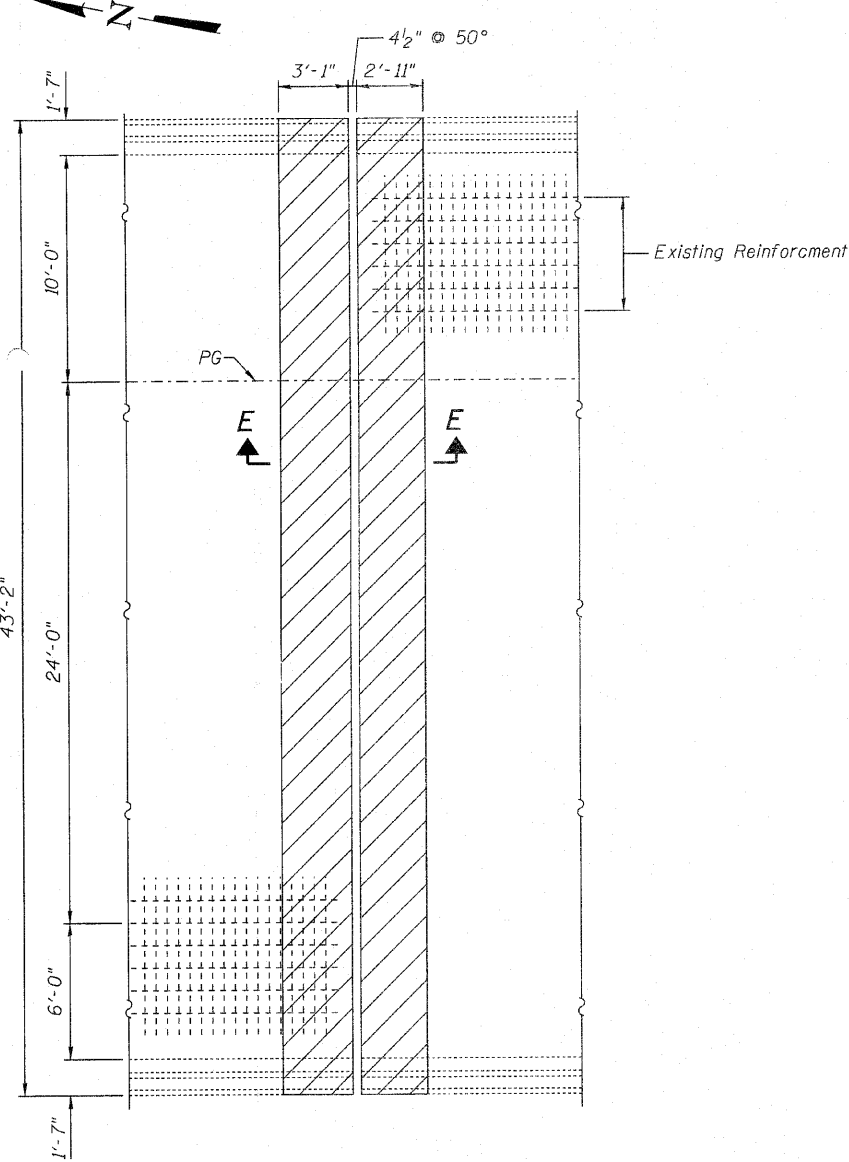
SECTION D-D

DESIGNED	J. Uehle
CHECKED	A. Hallway
DRAWN	J. Uehle
CHECKED	A. Hallway

November 5, 2012
EXAMINED *A. Hallway*
PASSED *Ralph E. Anderson*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

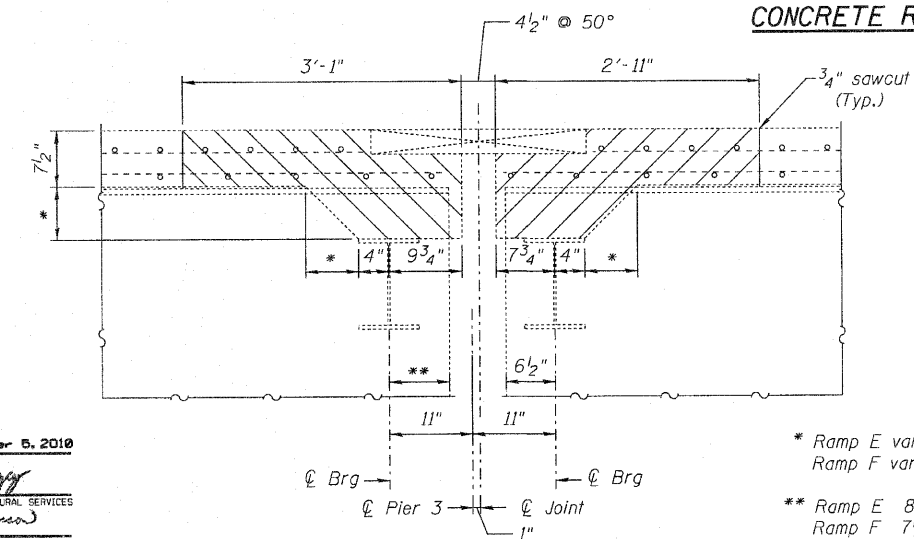
SHEET NO. 4 16 SHEETS	F.A.] RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	11
			CONTRACT NO.	76C33	
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CONCRETE REMOVAL

CONCRETE REPLACEMENT



SECTION E-E

* Ramp E varies 4 1/4" to 10 3/4"
Ramp F varies 4 1/4" to 8 1/8"

** Ramp E 8 1/2" (Beams 1-2); 8" (Beams 3-6)
Ramp F 7 1/2" (Beams 7-10)

The ϕ of existing joint is offset 1" south from the ϕ of pier, since the existing north bearings and north beam end extensions are longer. The reconstructed joint will be centered on the pier.

See sheet 11 of 16 for Section F-F.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4(E)	18	#5	41'-2"	—
d(E)	12	#5	5'-8"	L
d(E)	12	#5	3'-11"	U
x(E)	84	#5	2'-7"	C
Mechanical Splicers	Each		84	
Reinforcement Bars, Epoxy Coated	Pound		1120	
Concrete Superstructure	Cu. Yds.		8.8	
Concrete Removal	Cu. Yds.		9.9	

Bars indicated thus 4x2 - #5 etc. indicates 4 line of bars with 2 lengths per line.

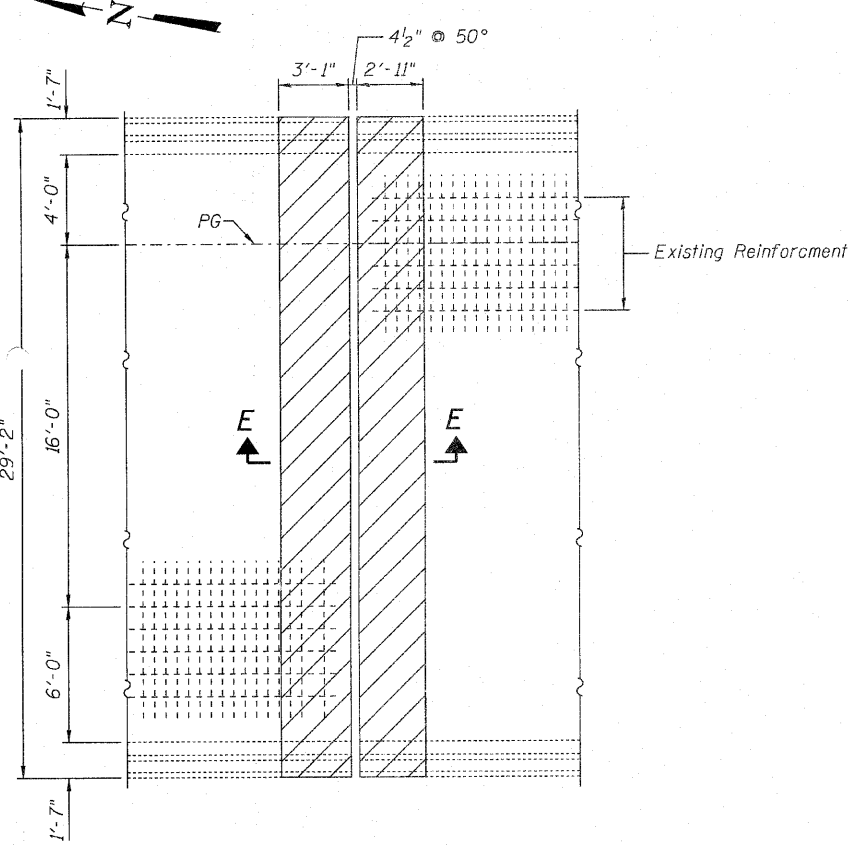
RAMP E
PIER 3 CONCRETE REPLACEMENT
082-0217 & 0218

DESIGNED	J. Uehle
CHECKED	A. Hallway
DRAWN	J. Uehle
CHECKED	A. Hallway

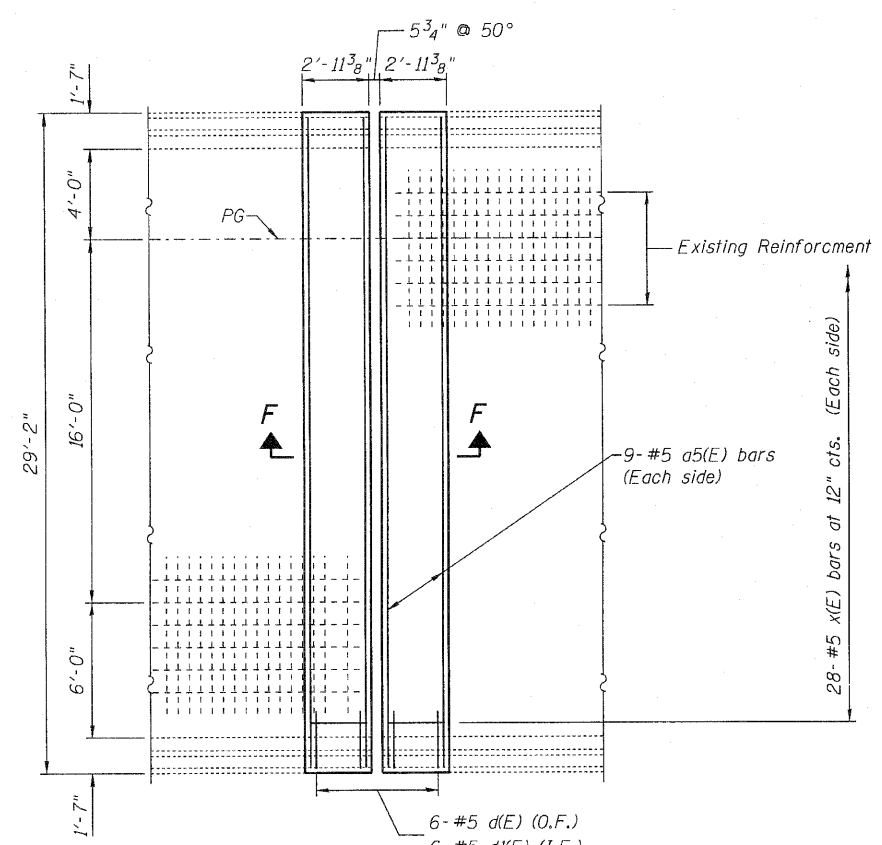
November 5, 2010
EXAMINED *Dr. Carl Perry*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 5 16 SHEETS	F.A.] RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-I	ST. CLAIR	43	12
			CONTRACT NO. 76C33		
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CONCRETE REMOVAL



CONCRETE REPLACEMENT

The ϕ of existing joint is offset 1" south from the ϕ of pier, since the north bearings and north beam end extensions are longer. The reconstructed joint will be centered on the pier.

See sheet 5 of 16 for Section E-E.
See sheet 11 of 16 for Section F-F.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a5(E)	18	#5	27'-2"	—
d(E)	12	#5	5'-8"	L
d(E)	12	#5	3'-11"	U
x(E)	56	#5	2'-7"	C
Mechanical Splicers	Each		56	
Reinforcement Bars, Epoxy Coated	Pound		780	
Concrete Superstructure	Cu. Yds.		6J	
Concrete Removal	Cu. Yds.		6.7	

Bars indicated thus 4x2 - #5 etc. indicates 4 line of bars with 2 lengths per line.

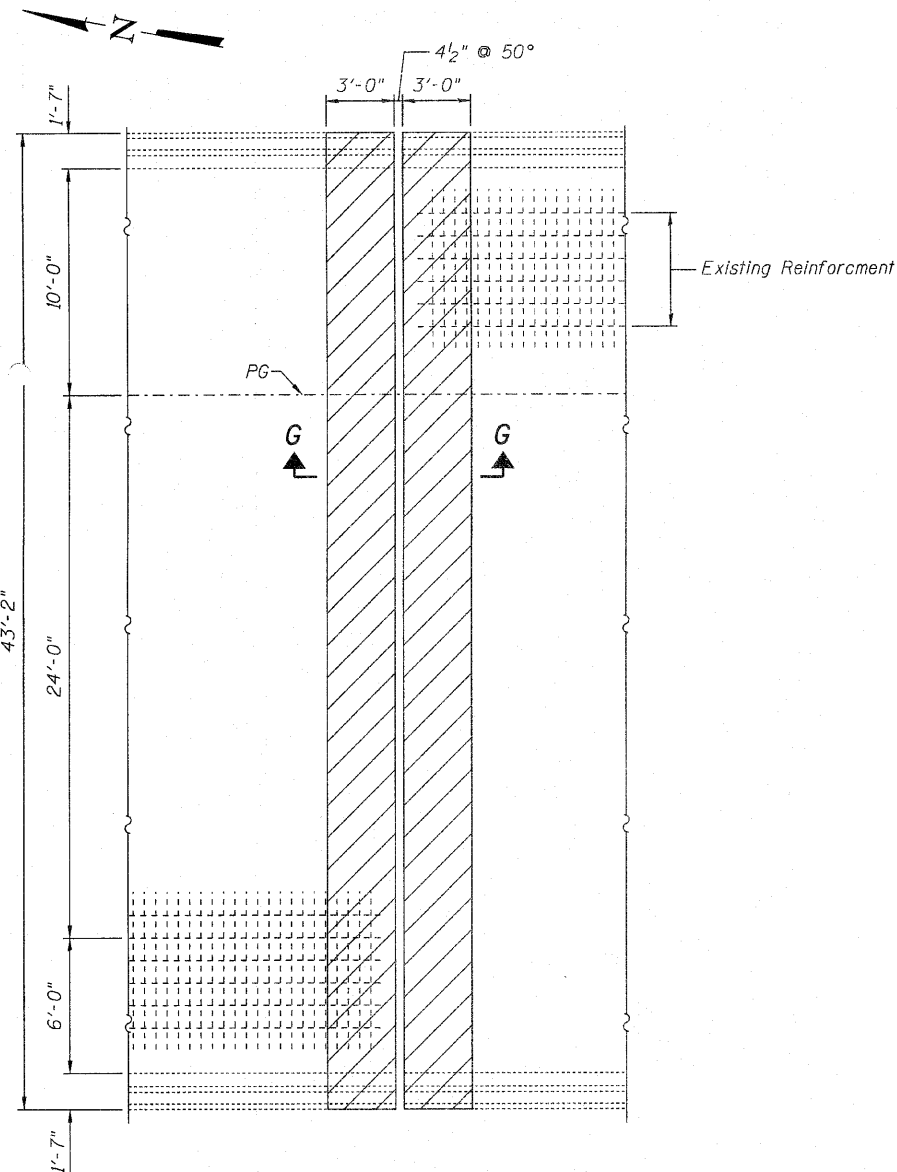
**RAMP F
PIER 3 CONCRETE REPLACEMENT
082-0217 & 0218**

DESIGNED J. Uehle
CHECKED A. Holloway
DRAWN J. Uehle
CHECKED A. Holloway

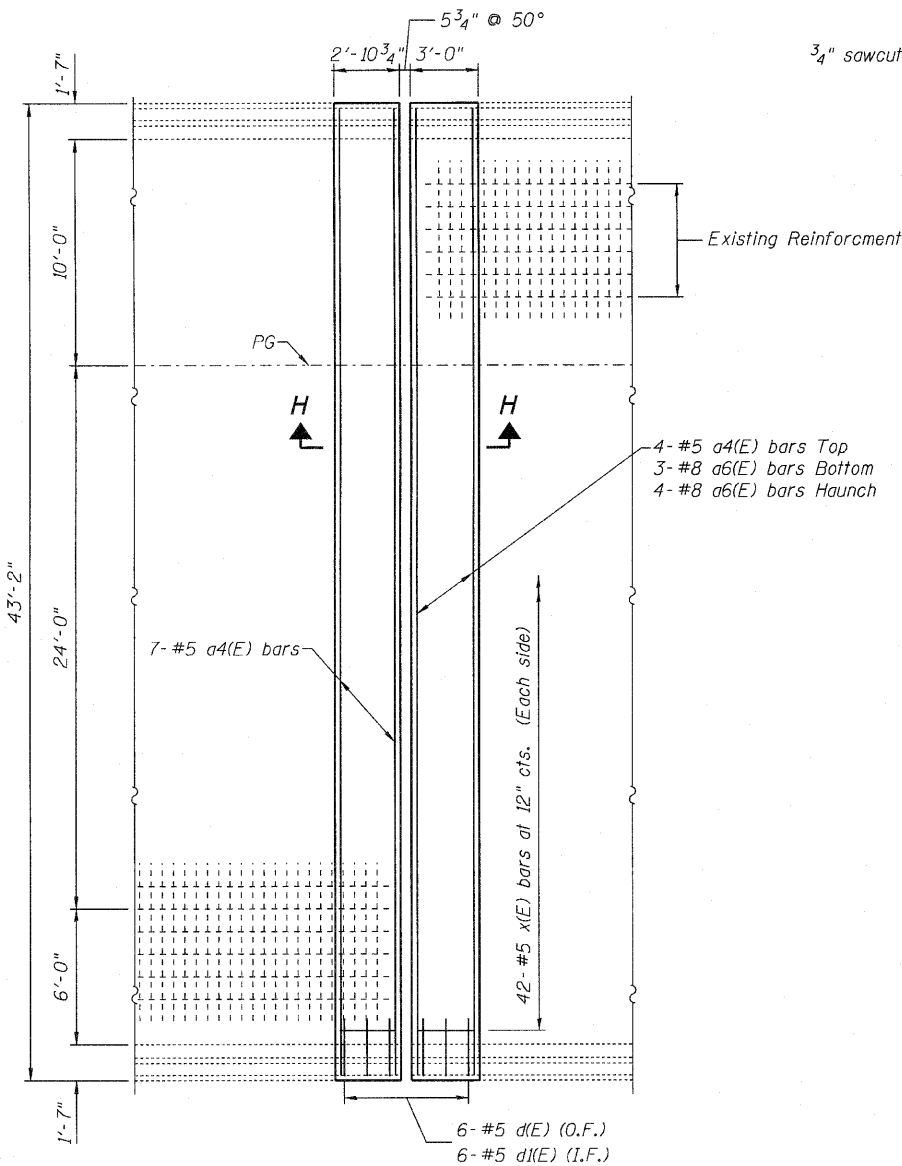
November 5, 2010
EXAMINED *[Signature]*
PASSED *[Signature]*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 6	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	13
16 SHEETS	CONTRACT NO. 76C33				
ILLINOIS FED. AID PROJECT					

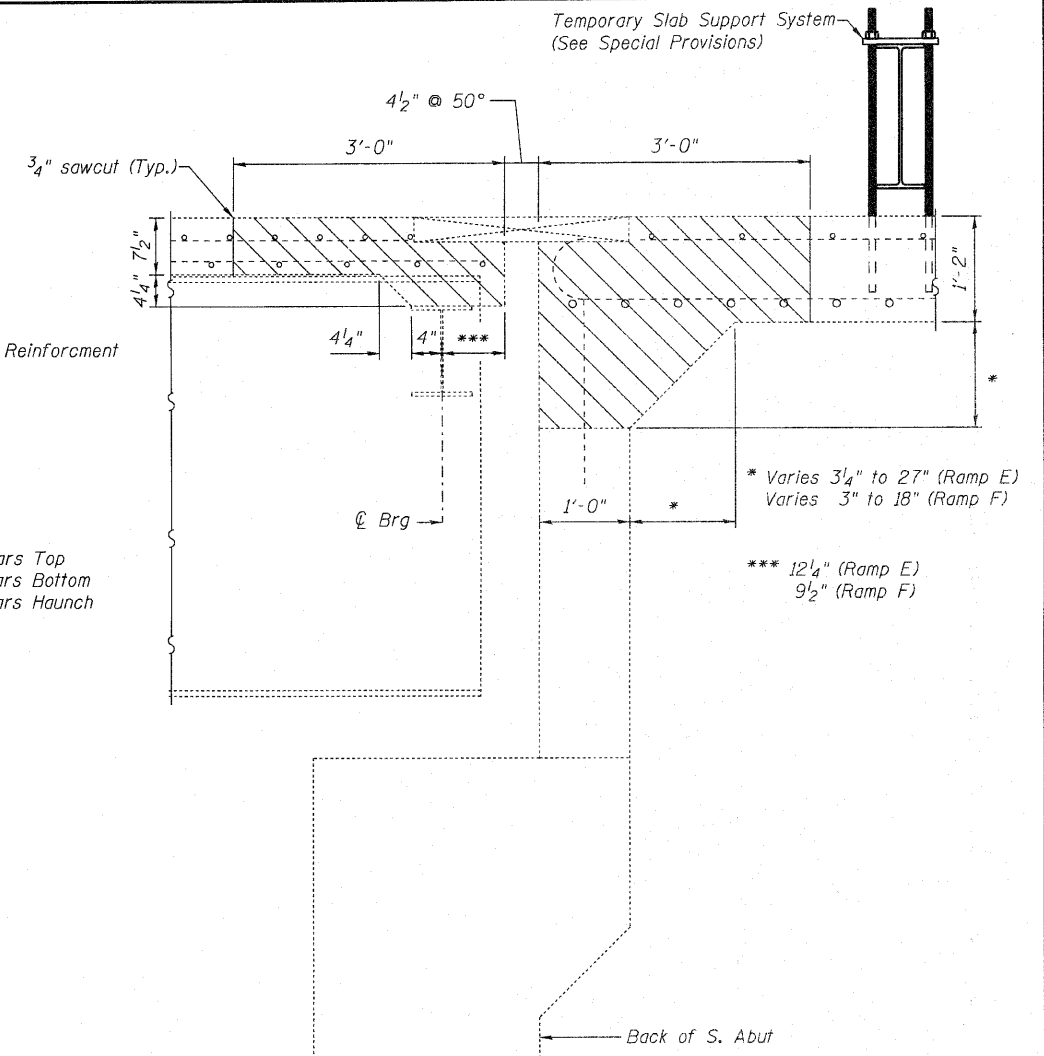
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CONCRETE REMOVAL



CONCRETE REPLACEMENT



SECTION G-G

See sheet 15 of 16 for Section H-H.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4(E)	11	#5	41'-2"	—
a6(E)	7	#8	37'-8"	—
d(E)	12	#5	5'-8"	L
d(I)(E)	12	#5	3'-11"	U
x(E)	84	#5	2'-7"	C
Mechanical Splicers	Each		84	
Reinforcement Bars, Epoxy Coated	Pound		1520	
Concrete Superstructure	Cu. Yds.		12.5	
Concrete Removal	Cu. Yds.		13.3	

Bars indicated thus 4x2 - #5 etc. indicates 4 line of bars with 2 lengths per line.

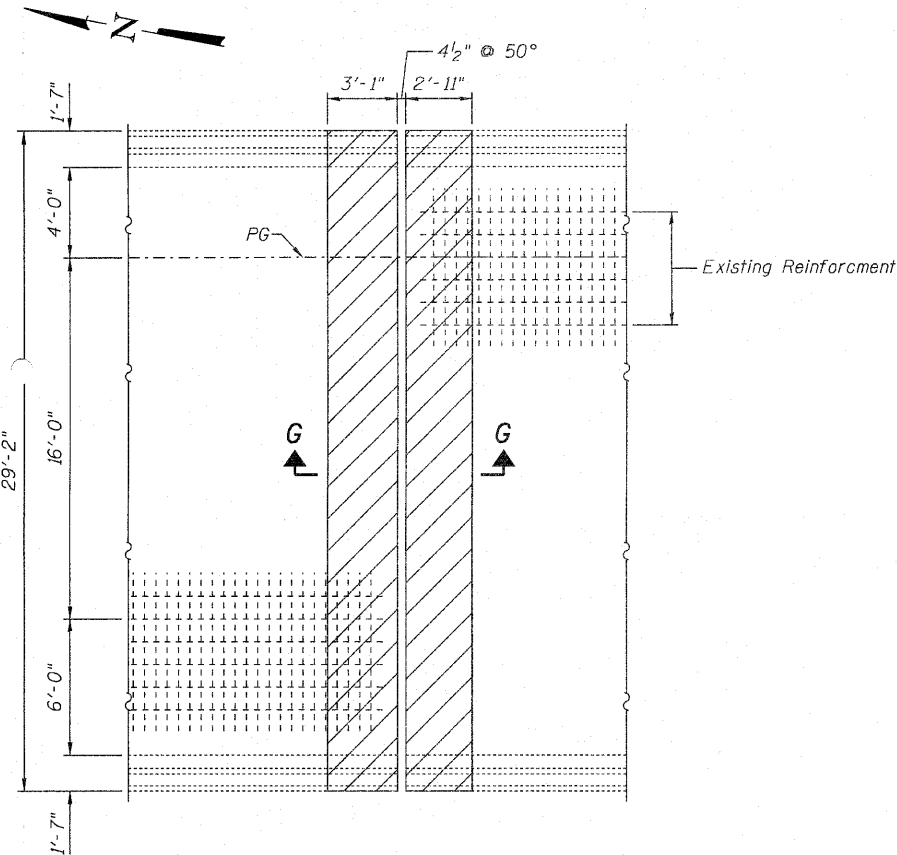
**RAMP E
S. ABUTMENT CONCRETE REPLACEMENT
082-0217 & 0218**

DESIGNED	J. Uehle
CHECKED	A. Holloway
DRAWN	J. Uehle
CHECKED	A. Holloway

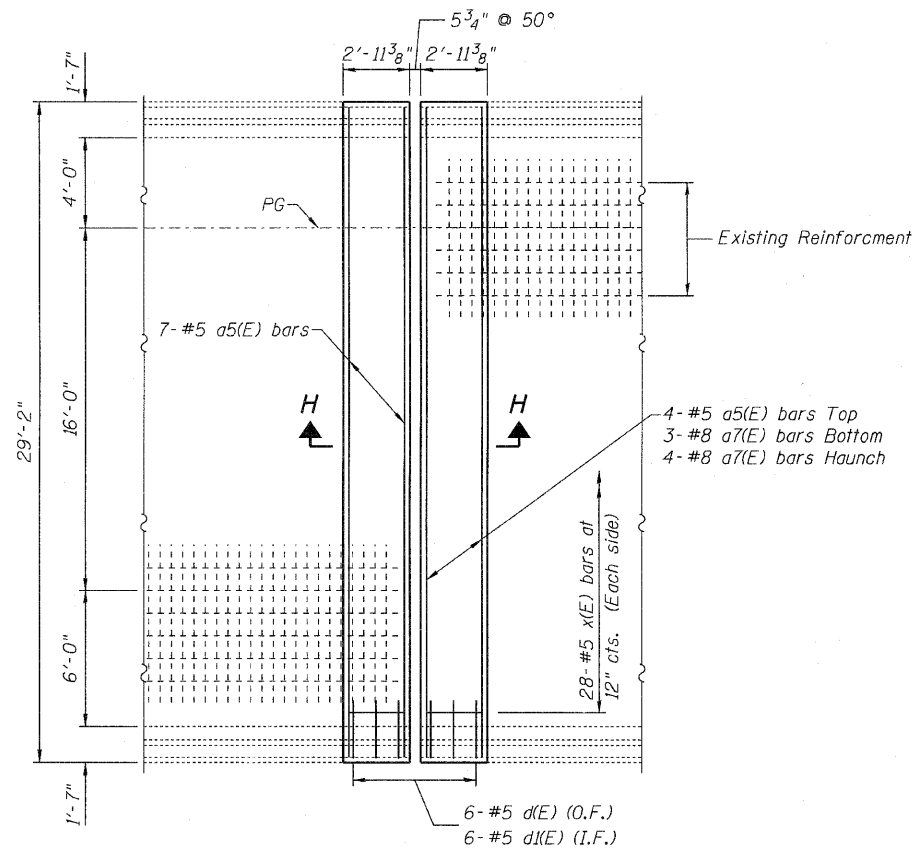
November 5, 2018
EXAMINED *A. Calberg*
PASSED *Ralph E. Anderson*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 7 16 SHEETS	F.A.] RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	14
				CONTRACT NO. 76C33	
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CONCRETE REMOVAL



CONCRETE REPLACEMENT

See sheet 7 of 16 for Section G-G.

See sheet 15 of 16 for Section H-H.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a5(E)	11	#5	27'-2"	—
a7(E)	7	#8	23'-8"	—
d(E)	12	#5	5'-8"	L
d(E)	12	#5	3'-11"	L
x(E)	56	#5	2'-7"	C
Mechanical Splicers	Each		56	
Reinforcement Bars, Epoxy Coated	Pound		1020	
Concrete Superstructure	Cu. Yds.		7.9	
Concrete Removal	Cu. Yds.		8.5	

Bars indicated thus 4x2 -#5 etc. indicates 4 line of bars with 2 lengths per line.

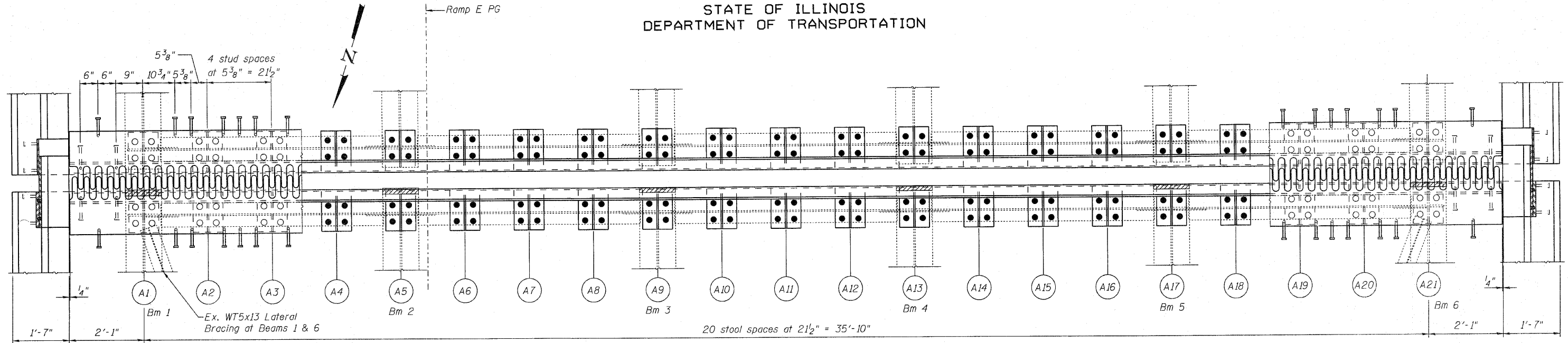
**RAMP F
S. ABUTMENT CONCRETE REPLACEMENT
082-0217 & 0218**

DESIGNED	J. Uehle
CHECKED	A. Holloway
DRAWN	J. Uehle
CHECKED	A. Holloway

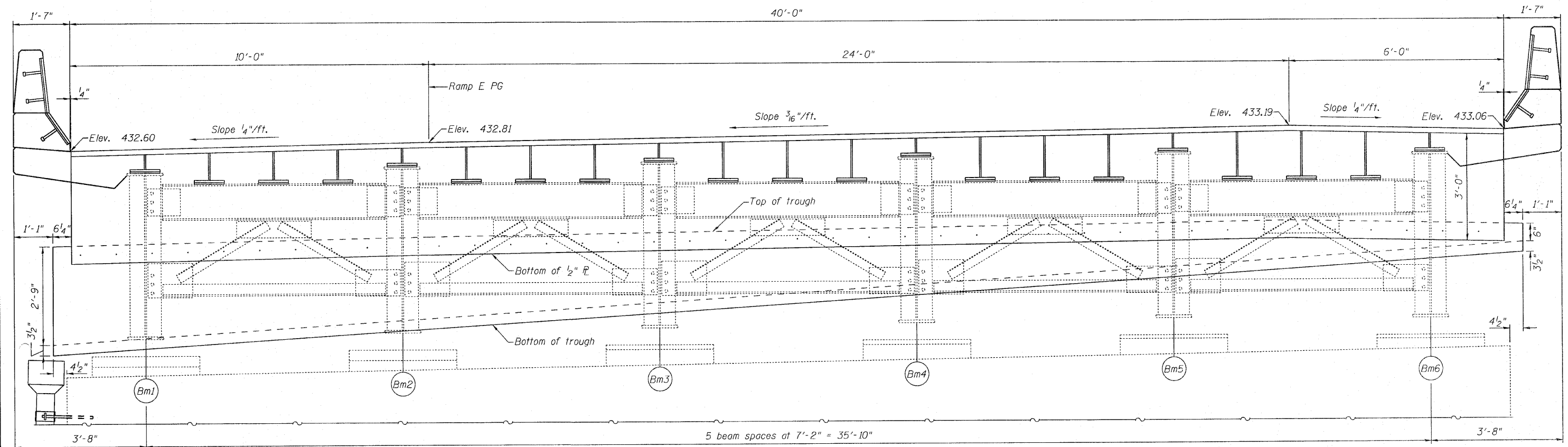
November 5, 2018
EXAMINED *Dr. Carl Perry*
PASSED *Ralph E. Anderson*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 8	F.A.] RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	15
16 SHEETS	CONTRACT NO. 76C33				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN
(Pier 3 - Ramp E)



ELEVATION (SECTION I-I)
(Looking South)

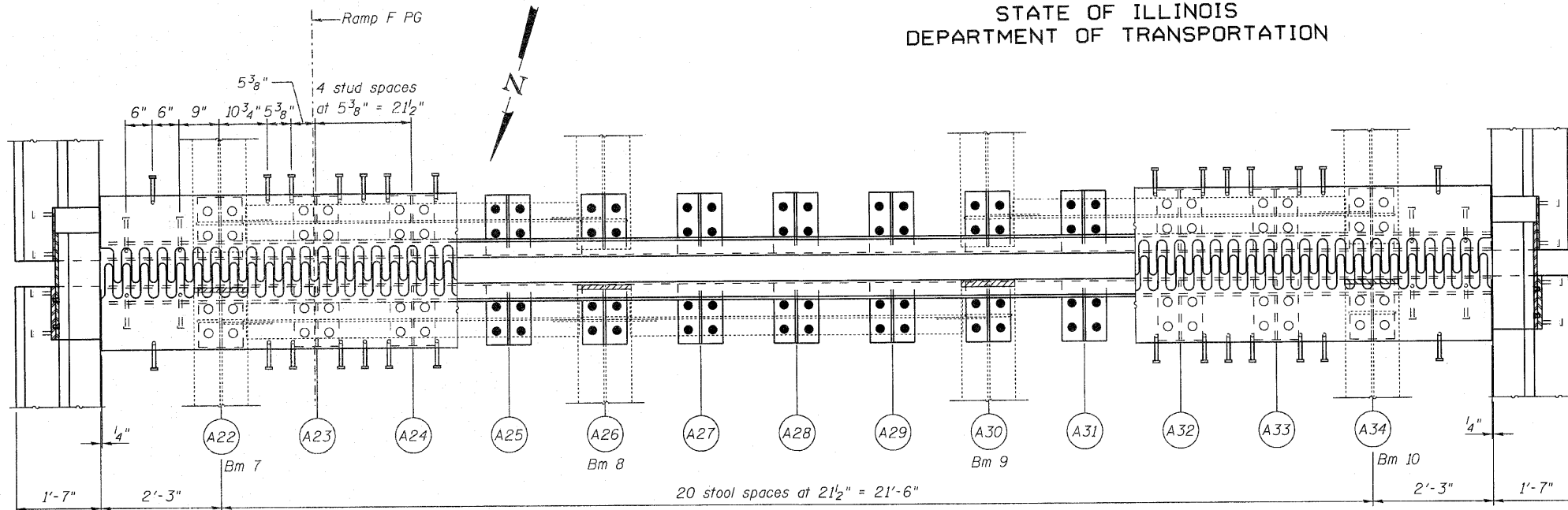
RAMP E
PIER 3 FINGER PLATE
SN 082-0217 & 0218

DESIGNED	B. Williams	EXAMINED	<i>A. Carl Perry</i> ENGINEER OF STRUCTURAL SERVICES
CHECKED	J. Uehle	PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	A. Hallway		
CHECKED	J. Uehle		

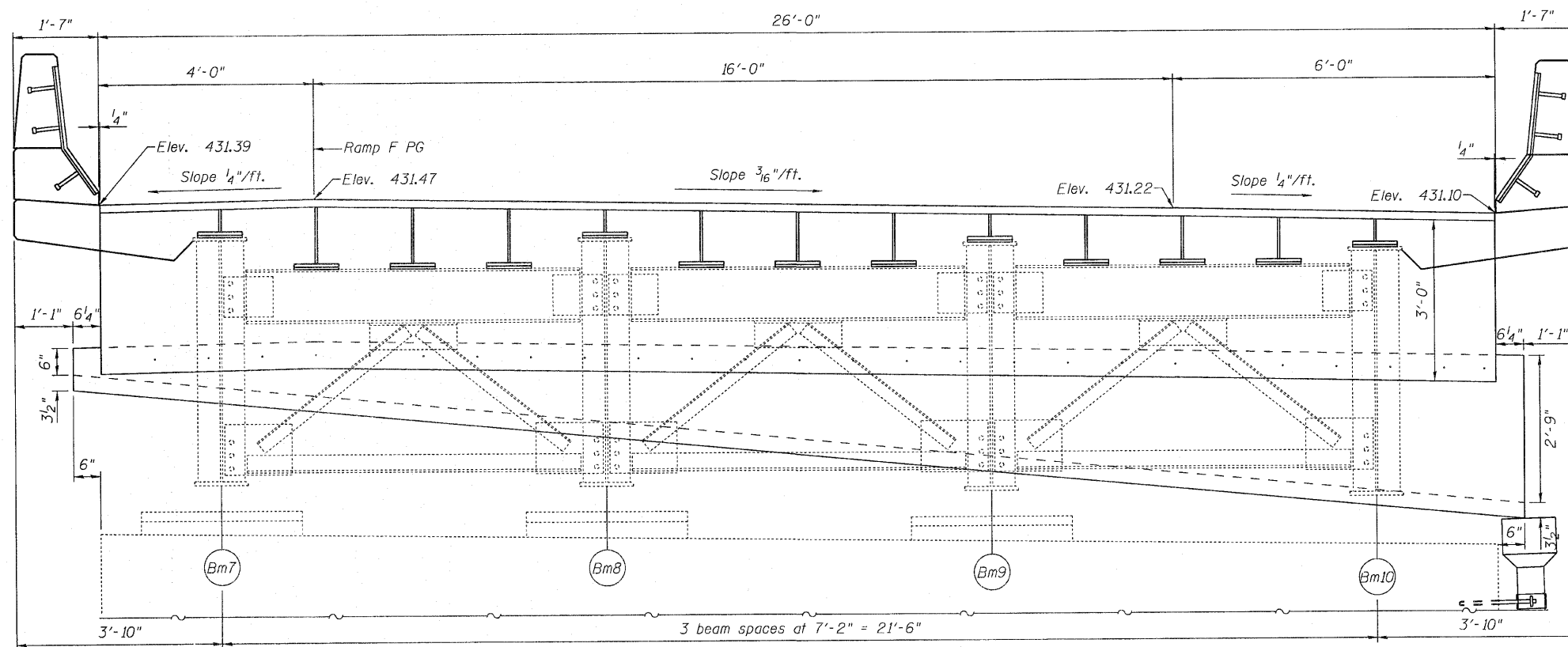
Beam end removal. See sheet 11 of 16 for details.

SHEET NO. 9	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-THB-1	ST. CLAIR	43	16
16 SHEETS	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 76C33		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN
(Pier 3 - Ramp F)



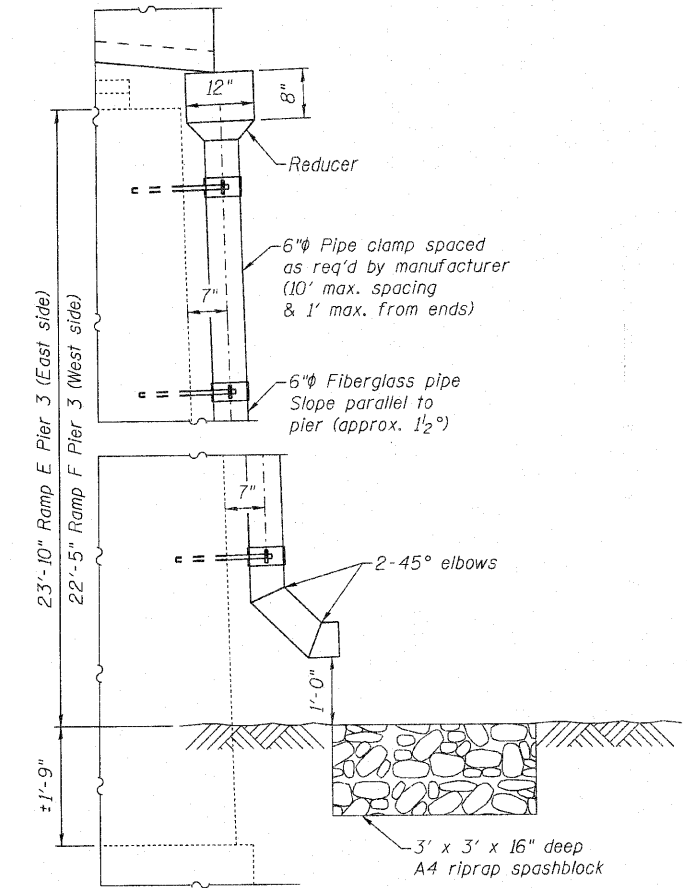
ELEVATION (SECTION I-I)
(Looking South)

Beam end removal. See sheet 11 of 16 for details.

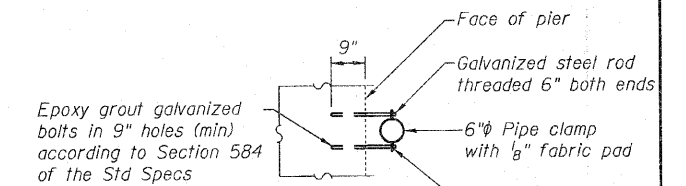
DESIGNED	A. Hallway
CHECKED	J. Uehle
DRAWN	A. Hallway
CHECKED	J. Uehle

Jan 15, 2018

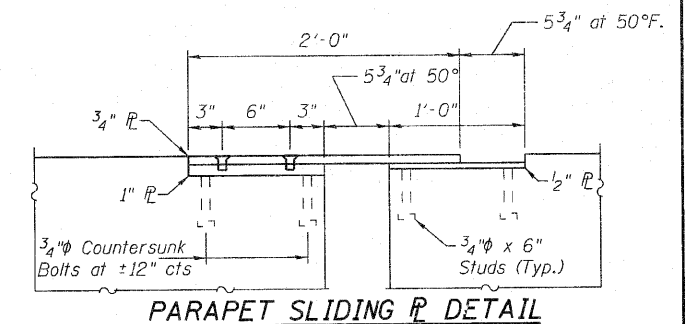
EXAMINED	<i>Carl Rung</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES



DRAIN PIPE DETAILS
(Pier 3 Ramp E - Looking North)
(Pier 3 Ramp F - Looking South)



PIPE CLAMP DETAIL

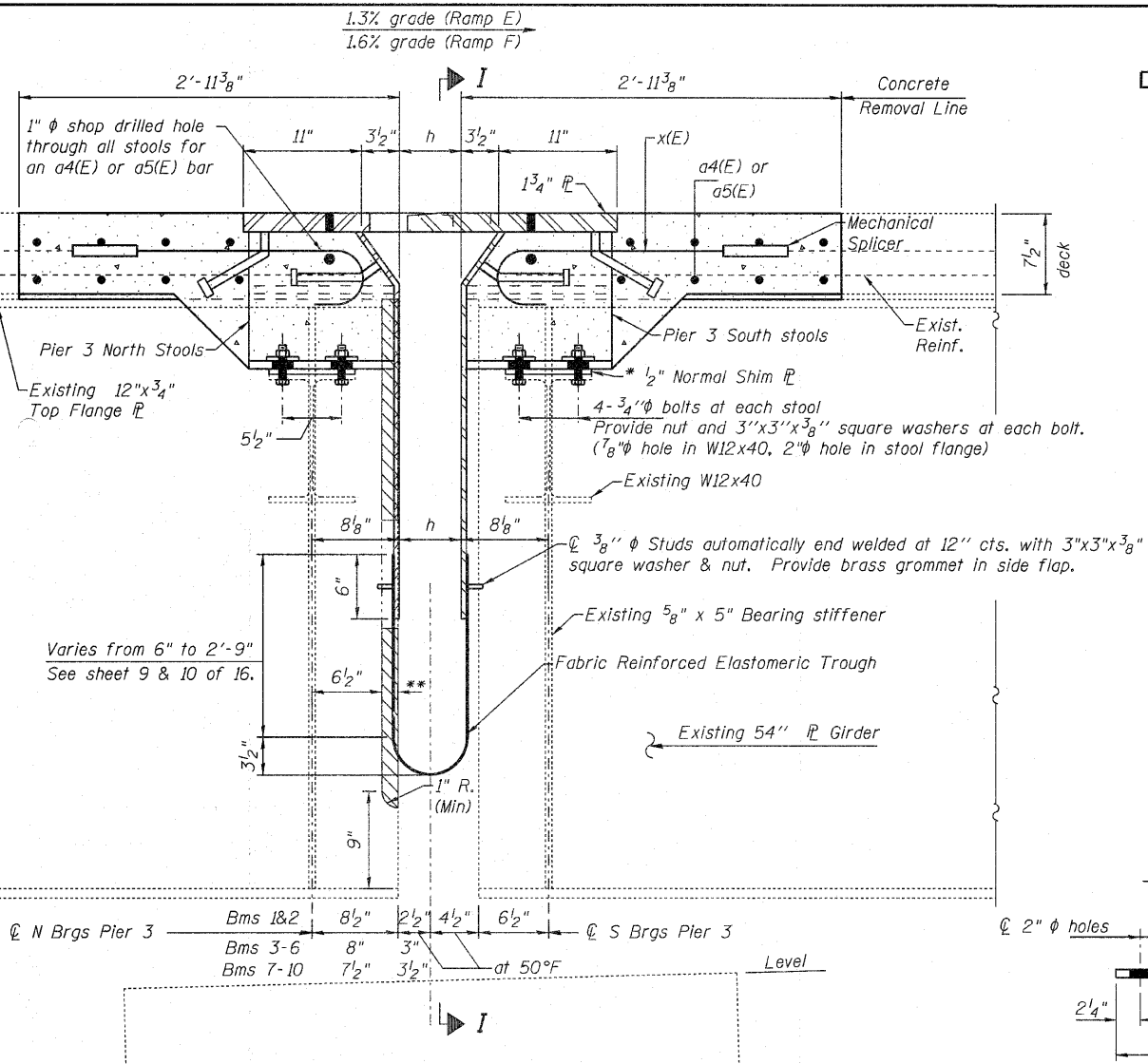


PARAPET SLIDING PLATE DETAIL

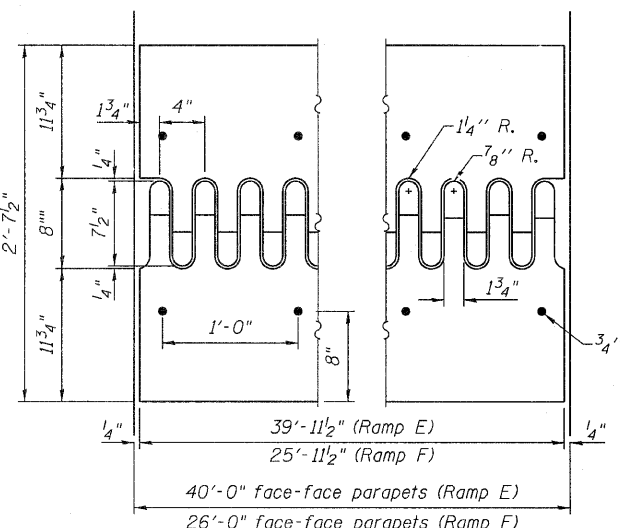
RAMP F
PIER 3 FINGER PLATE
SN 082-017 & 0218

SHEET NO. 10	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-THB-I	ST. CLAIR	43	17
16 SHEETS	CONTRACT NO. 76C33				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

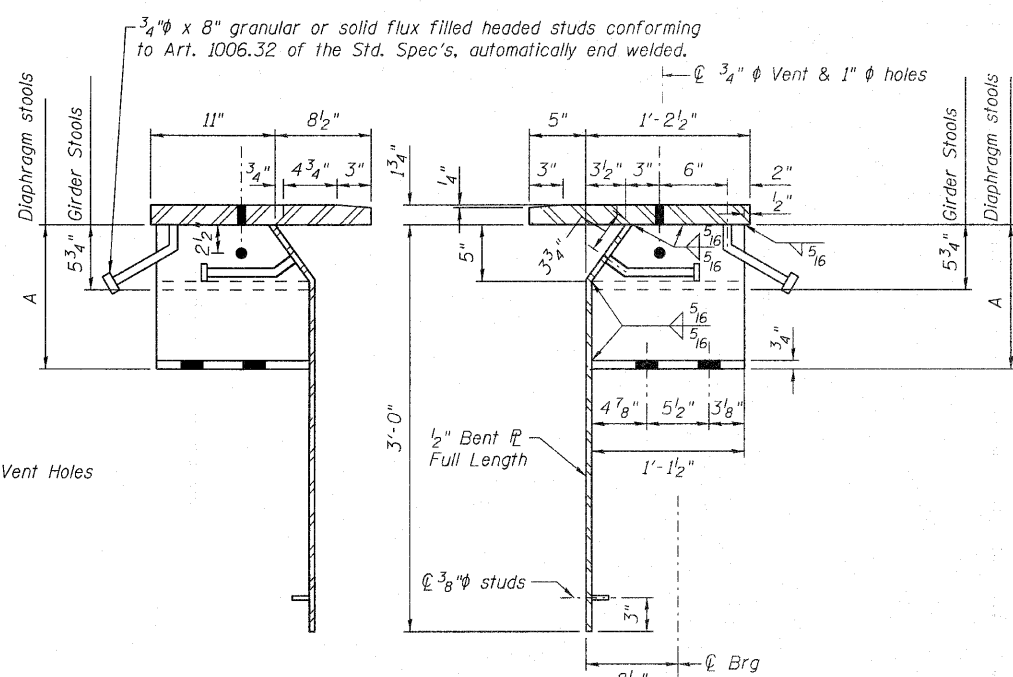
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



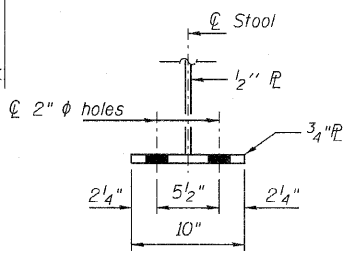
SECTION F-F
(Looking East)
(Section shown rotated level to grade)



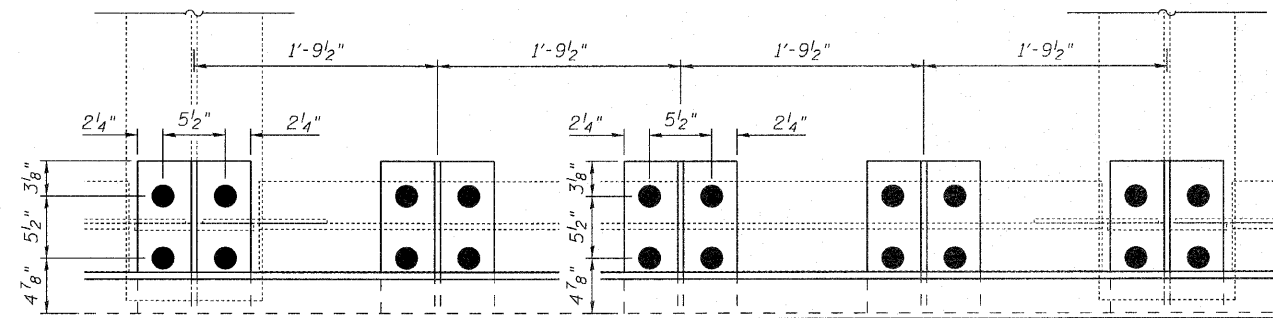
FLAME CUTTING DIAGRAM
(Cut from M270 Gr. 50 PL)



STOOLS
(Looking East)



STOOL SECTION



PARTIAL PLAN OF STOOLS

Notes: See sheets 9 & 10 of 16 for stool locations & Section I-I.

Stool heights are measured at ϕ of bearings.

All plates shall be AASHTO M270, Gr. 50.

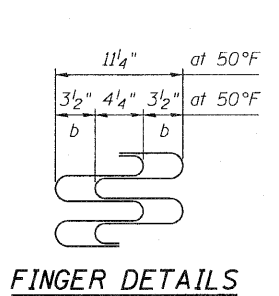
Existing shear studs that interfere with the finger plate stool shall be removed using the air-arc method and grind smooth all weld material remaining on the top flange. Cost included with Finger Plate Expansion Joint, 5".

Finger Plate Expansion Joints shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

Existing reinforcement shall extend 6" min. into the removal area to allow attachment of the mechanical splicers.

RAMP E DIMENSION A **RAMP F DIMENSION A**

Stool No.	Height	Stool No.	Height
A2	9 ¹⁵ / ₁₆ "	A23	13 ⁷ / ₁₆ "
A3	10 ³ / ₈ "	A24	13 ¹ / ₁₆ "
A4	10 ¹³ / ₁₆ "	A25	12 ³ / ₄ "
A6	11 ¹ / ₁₆ "	A27	12 ¹ / ₁₆ "
A7	12"	A28	11 ³ / ₄ "
A8	12 ⁵ / ₁₆ "	A29	11 ⁷ / ₁₆ "
A10	13"	A31	10 ³ / ₄ "
A11	13 ⁵ / ₁₆ "	A32	10 ³ / ₈ "
A12	13 ¹ / ₁₆ "	A33	9 ¹⁵ / ₁₆ "
A14	14 ³ / ₈ "		
A15	14 ¹ / ₁₆ "		
A16	15"		
A18	15 ¹ / ₁₆ "		
A19	15 ⁷ / ₈ "		
A20	15 ⁷ / ₁₆ "		



FINGER DETAILS

Pier 3 Ramp E (431' Expansion Length)			Pier 3 Ramp F (376' Expansion Length)		
Temp.	b	h	Temp.	b	h
-30°F	6 ¹ / ₈ "	8 ³ / ₈ "	-30°F	5 ⁷ / ₈ "	8 ¹ / ₈ "
50°F	3 ¹ / ₂ "	5 ³ / ₄ "	50°F	3 ¹ / ₂ "	5 ³ / ₄ "
130°F	7 ⁷ / ₈ "	3 ¹ / ₈ "	130°F	1 ¹ / ₈ "	3 ³ / ₈ "

* Provide 1/2" normal shim, plus one 1/4" shim, plus one 1/8" shim, and one 1/16" shim for height adjustment. Tapered shims shall be added under the stools as required by the Engineer to make a smooth finger joint.

** Cut off the top flange & webs of the 6 north side plate girders. Remove 2" (Beams 1 & 2), 1 1/2" (Beams 3-6), and 1" (Beams 7-10)

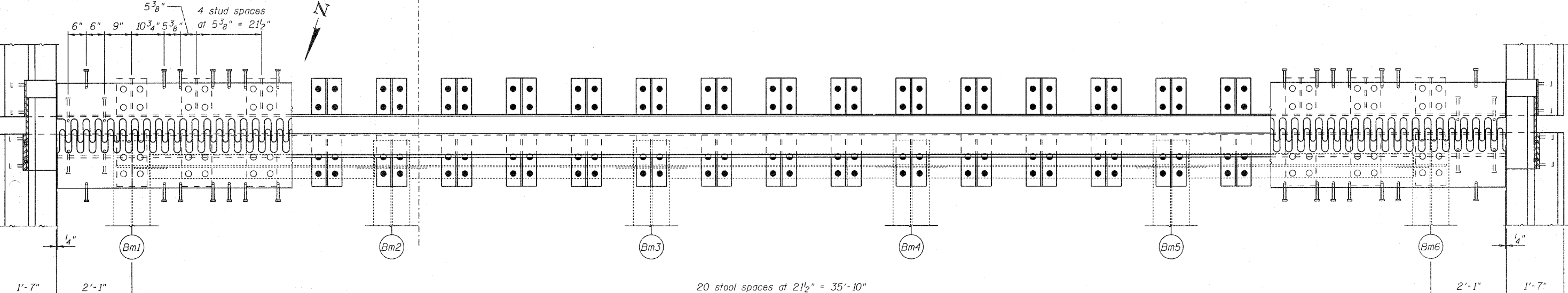
DESIGNED J. Uehle
CHECKED A. Hallway
DRAWN J. Uehle
CHECKED A. Hallway

May 8, 2009
EXAMINED *De Carl Perry*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

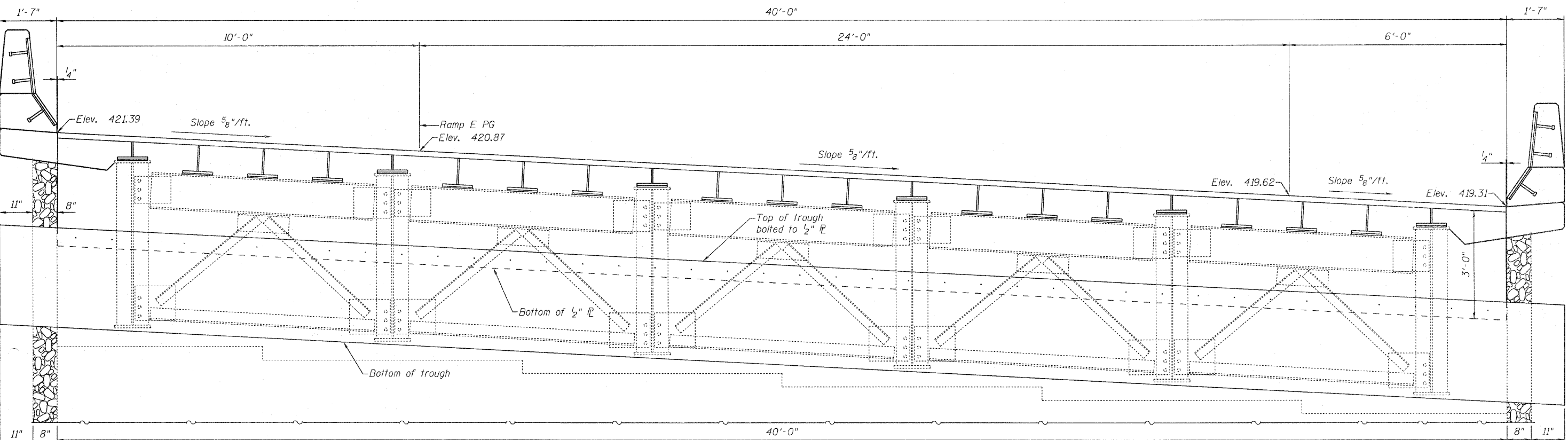
**RAMP E & F
PIER 3 FINGER PLATE DETAILS
SN 082-0217 & 0218**

SHEET NO. 11 16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-I	ST. CLAIR	43	18
CONTRACT NO. 76C33				FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT IM-255()	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



ELEVATION (SECTION J-J)
(Diaphragm & Girder Stools Looking South)

RAMP E
SOUTH ABUTMENT FINGER PLATE
SN 082-0217 & 0218

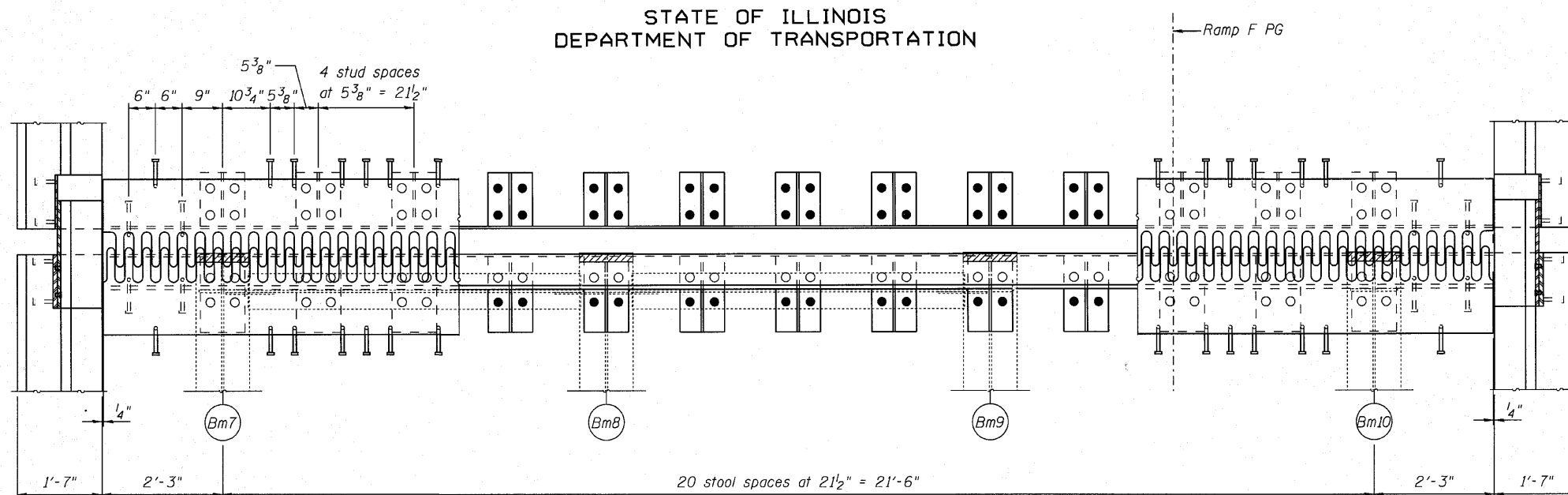
DESIGNED	A. Hallway
CHECKED	J. Uehle
DRAWN	A. Hallway
CHECKED	J. Uehle

Jan 15, 2018
EXAMINED *[Signature]*
PASSED *[Signature]*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

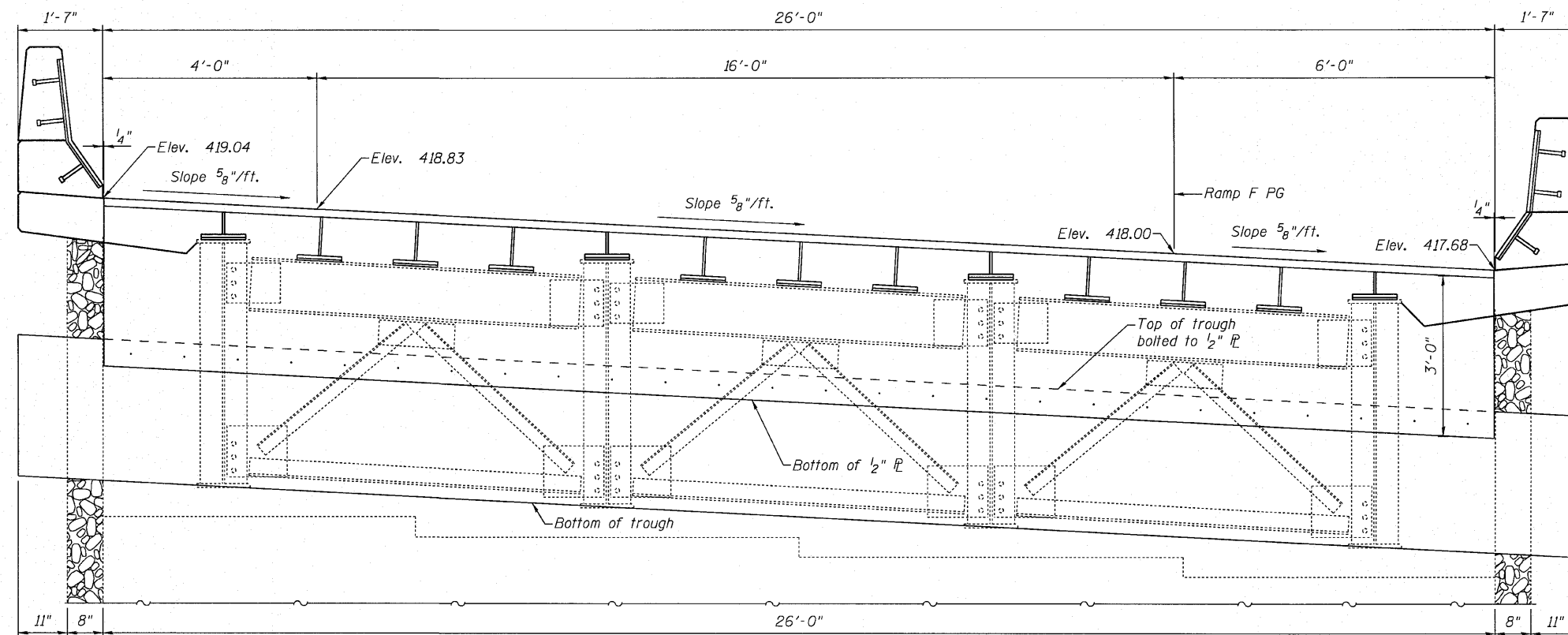
Elevations are
at \bar{C} Brg.

SHEET NO. 12 16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	19
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
				CONTRACT NO. 76C33	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



ELEVATION (SECTION J-J)
(Diaphragm & Girder Stools Looking South)

RAMP F
SOUTH ABUTMENT FINGER PLATE
SN 082-0217 & 0218

DESIGNED	A. Holloway
CHECKED	J. Uehle
DRAWN	A. Holloway
CHECKED	J. Uehle

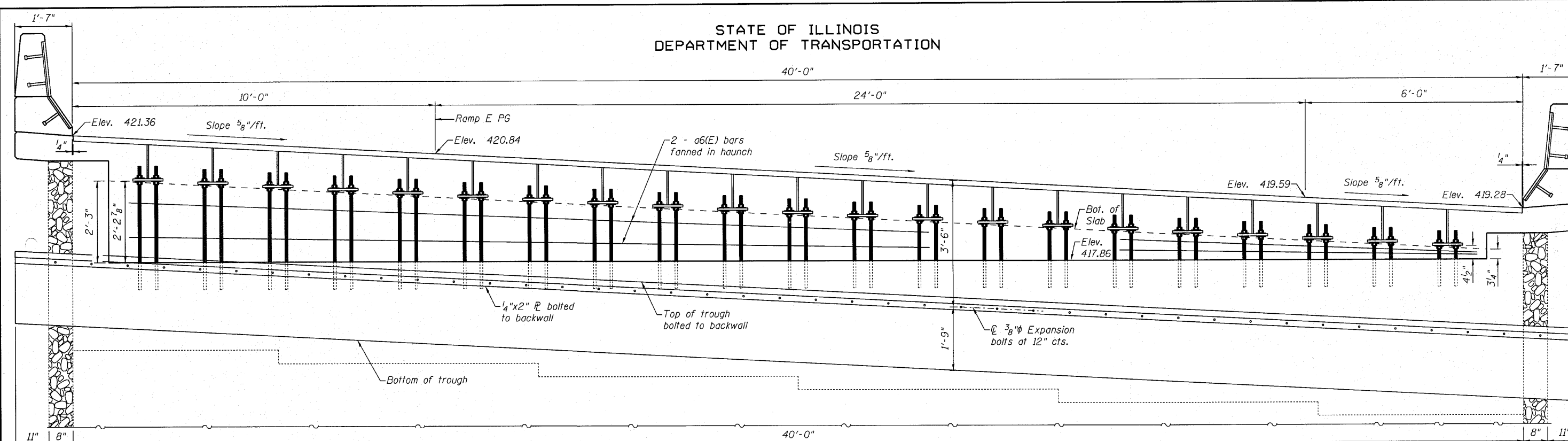
EXAMINED *A. Cal... Jan 15, 2018*
PASSED *Ralph E. Anderson*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

Beam end removal. See sheet 11 of 16 for details.

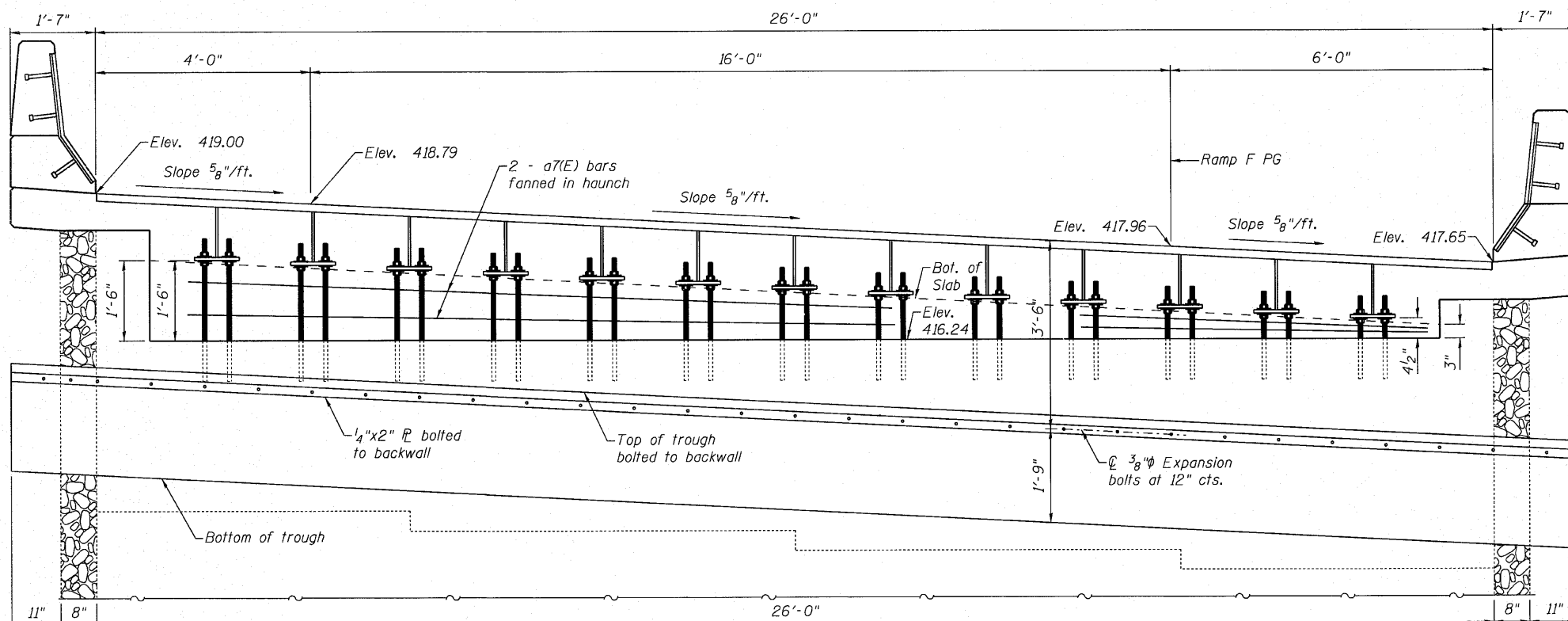
Elevations are at C Brg.

SHEET NO. 13 16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	20
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 76C33					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



RAMP E ELEVATION (SECTION K-K)
(South Abutment - Looking South)



RAMP F ELEVATION (SECTION K-K)
(South Abutment - Looking South)

RAMPS E & F
SOUTH ABUTMENT ELEVATION
SN 082-0217 & 0218

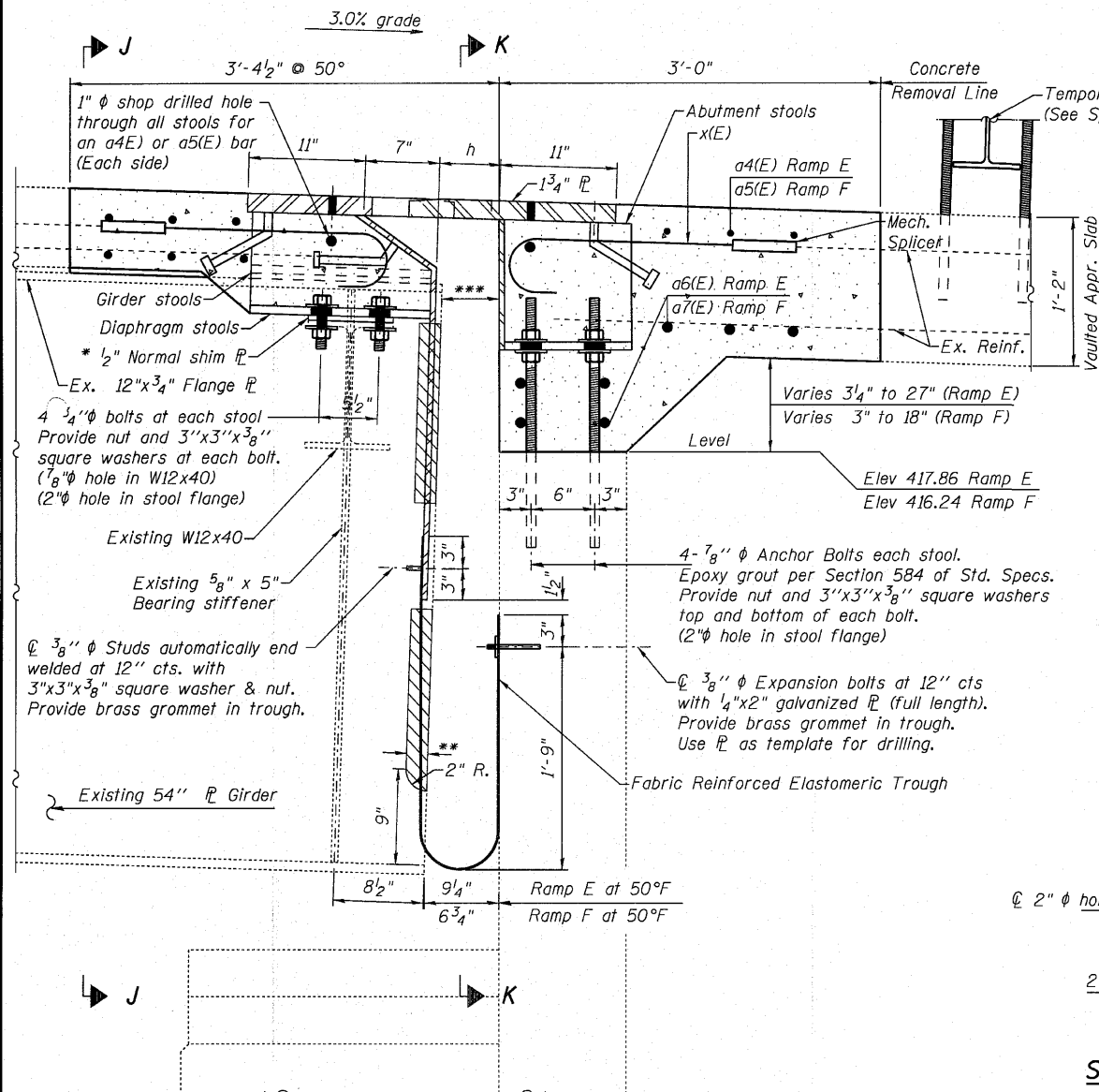
DESIGNED A. Hallway
CHECKED J. Uehle
DRAWN A. Hallway
CHECKED J. Uehle

EXAMINED *Jan 15, 2018*
Robert E. Anderson
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

Elevations are at
Front Face of Backwall.

SHEET NO. 14 16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76C33					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

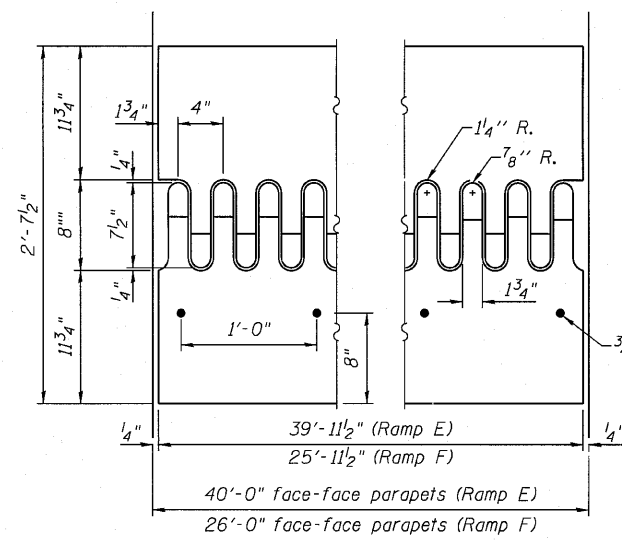


SECTION H-H
(Looking East)

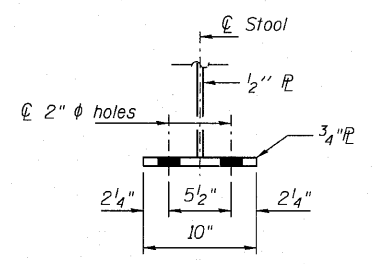
Notes: See sheet 12 & 14 of 16 for stool locations & Section J-J.
See sheet 13 & 15 of 16 for Section K-K.
Stool heights are measured at ϕ of bearings.
All plates shall be AASHTO M270, Gr. 50.
Existing shear studs that interfere with the finger plate stool shall be removed using the air-arc method and grind smooth all weld material remaining on the top flange. Cost included with Finger Plate Expansion Joint, 5".
Finger Plate Expansion Joints shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.
Existing reinforcement shall extend 6" min. into the removal area to allow attachment of the mechanical splicers.

DESIGNED	J. Uehle
CHECKED	A. Hallway
DRAWN	J. Uehle
CHECKED	A. Hallway

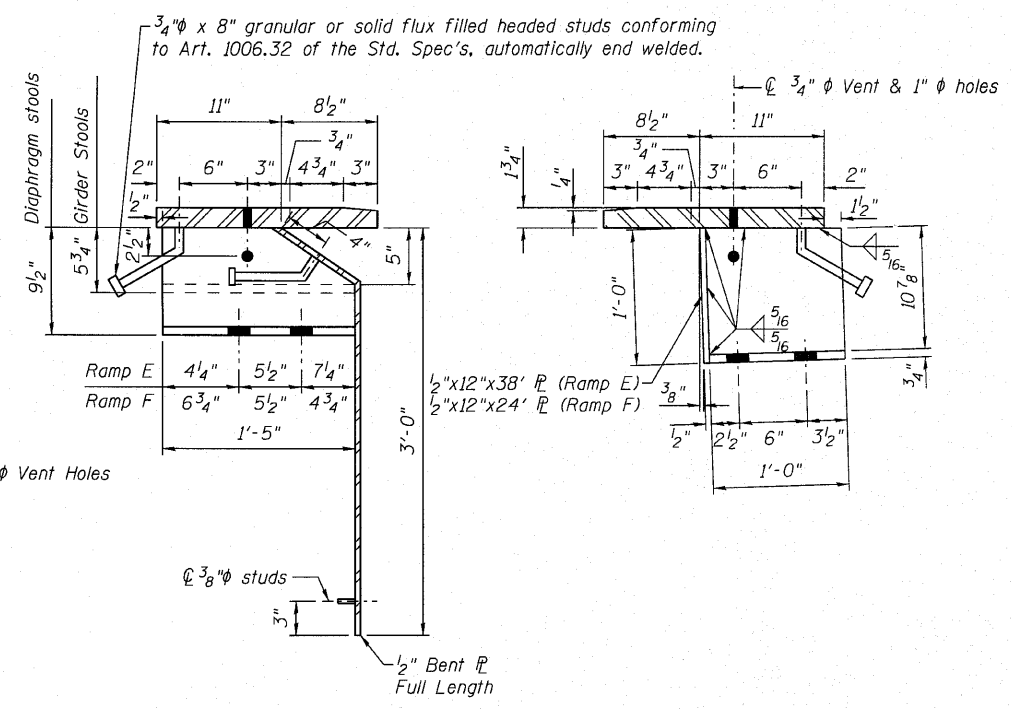
May 8, 2009
EXAMINED *A. Carl Perry*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



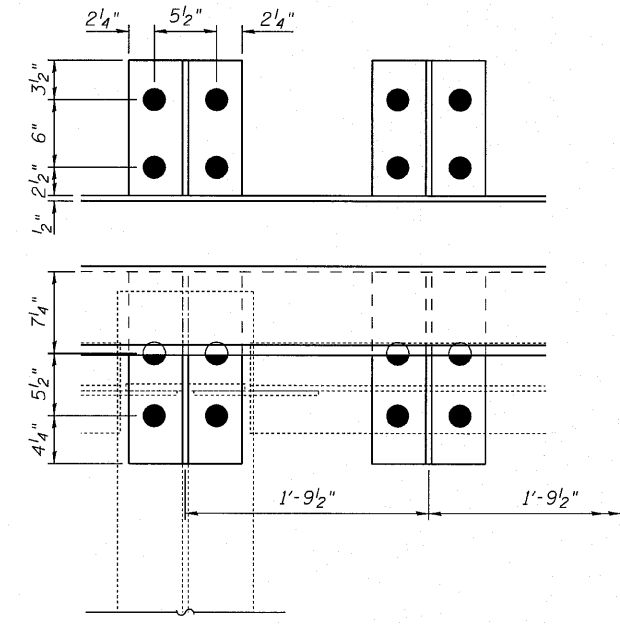
FLAME CUTTING DIAGRAM
(Cut from M270 Gr. 50 PL)



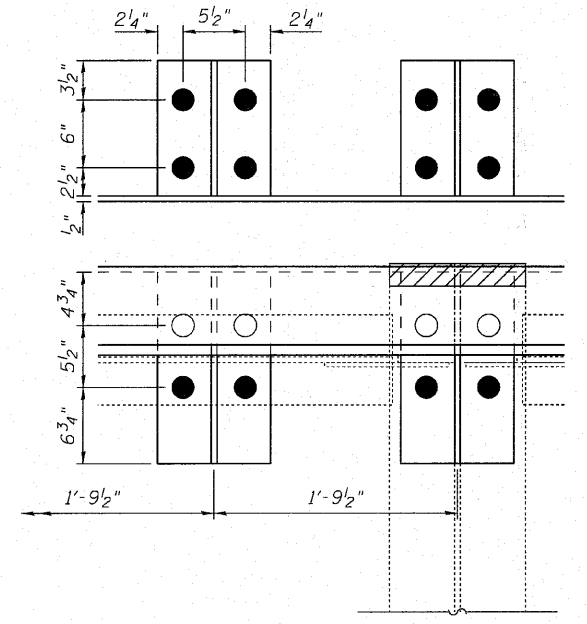
STOOL SECTION



STOOLS
(Looking East)



PARTIAL PLAN OF RAMP E STOOLS



PARTIAL PLAN OF RAMP F STOOLS

S Abut Ramps E & F
(408' Expansion Length)

Temp.	b	h
-30°F	6"	8 1/4"
50°F	3 1/2"	5 3/4"
130°F	1"	3 1/4"

FINGER DETAILS

* Provide 1/2" normal shim, plus one 1/4" shim, plus one 1/8" shim, and one 1/16" shim for height adjustment. Tapered shims shall be added under the stools as required by the Engineer to make a smooth finger joint.
** Cut 2" from the top flange & webs of the 4 plate girders at Ramp F only (beams 7-10).
*** 8" at 50°F (Ramp E); 5 1/2" at 50°F (Ramp F) calculated from field measurements.

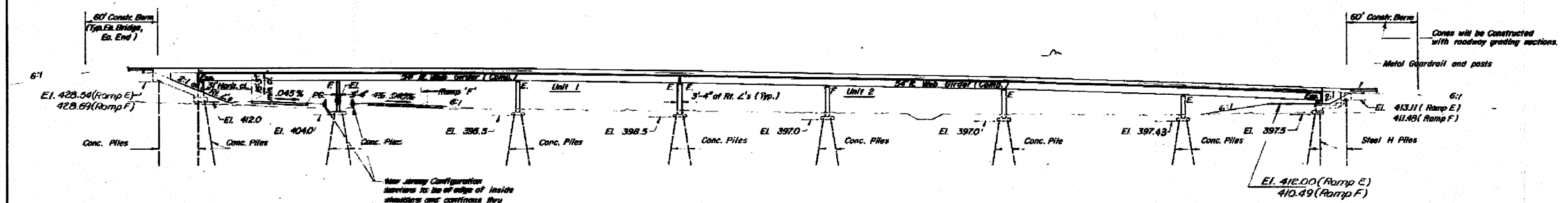
RAMPES E & F
S ABUTMENT FINGER PLATE DETAILS
SN 082-0217 & 0218

SHEET NO. 15 16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	255	82-7HB-1	ST. CLAIR	43	22
			CONTRACT NO. 76C33		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT IM-255()		

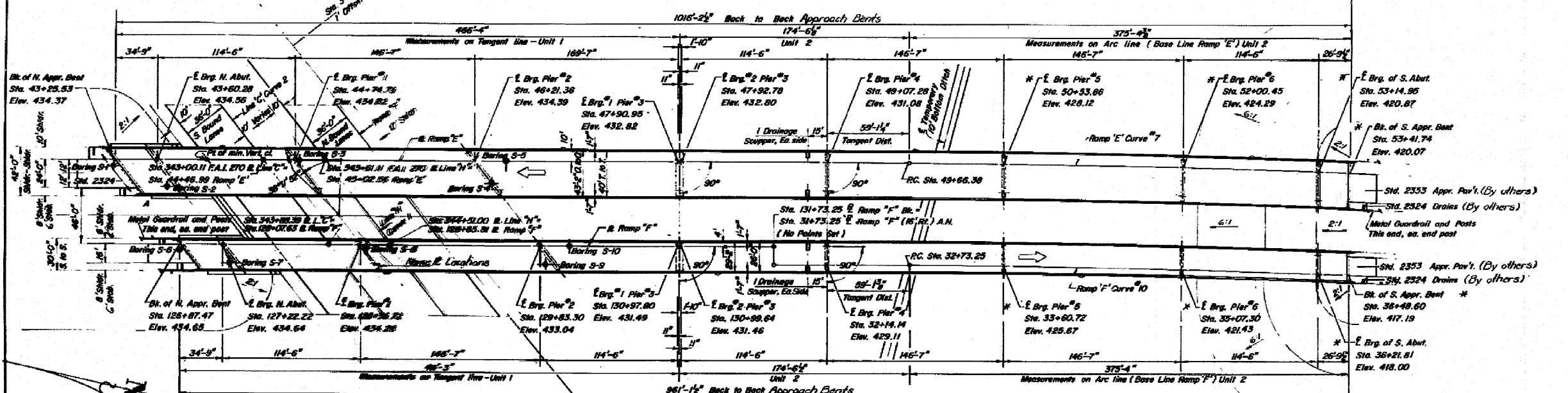
B.M. Rail Road spike in south face 36" Cottonwood Tree.
 Benchmark TBM A-20 Station 338+92 Rt. 525' Elev. 409.99
 No Existing Structure.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-THB	St. Clair	83	15
SHEET NO. 1 OF 20 SHEETS				



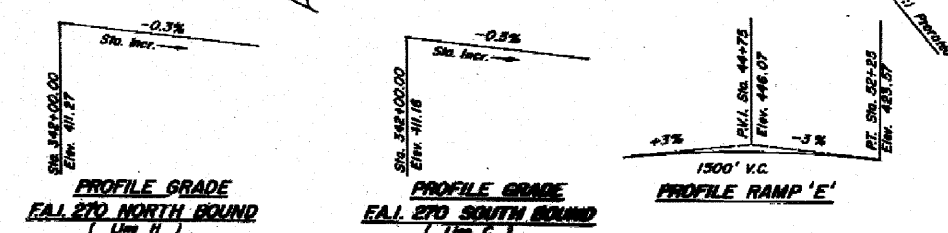
ELEVATION



PLAN

HORIZONTAL CURVE DATA

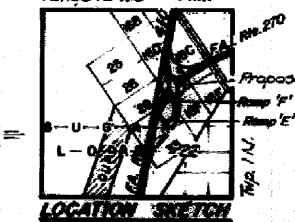
Line 'H' Curve #1	Line 'C' Curve #2	Line 'E' Curve #7	Line 'F' Curve #10
P.I. = 347+59.77	P.I. = 347+85.87	P.I. = 59+18.60	P.I. = 34+73.98
Δ = 45° 45' 12"	Δ = 45° 45' 12"	Δ = 53° 00' 00"	Δ = 12° 00' 00"
D = 1° 30' 00"	D = 1° 30' 00"	D = 3° 00' 00"	D = 3° 00' 00"
T = 3819.72'	T = 3819.72'	T = 962.22'	T = 200.73'
L = 1610.37'	L = 1610.37'	R = 1909.86'	R = 1909.86'
L = 3048.00'	L = 3048.00'	L = 1766.67'	L = 400.00'
E = 325.59' S.E. = .045X	E = 325.59' S.E. = .045X	E = 224.22' S.E. = .052X	E = 10.56' S.E. = .052X



DESIGNED	Rev Brunette	EXAMINED	[Signature]
CHECKED	Jim Konow	PASSED	[Signature]
DRAWN	[Signature]	APPROVED	[Signature]
CHECKED	J.K.		

DESIGN STRESSES

$f_c = 3900$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_s = 20,000$ p.s.i. (M23 Grade 30)
 $f_b = 20,000$ p.s.i. (M23)
 ALLOWING FOR 20% INCREASE IN STRENGTH.
 Design Specifications: 1977 AASHTO; 1978 and 1979 Indiana Specifications, as applicable.
 Epoxy Coated reinforcement bars shall be used in the lower deck slab.



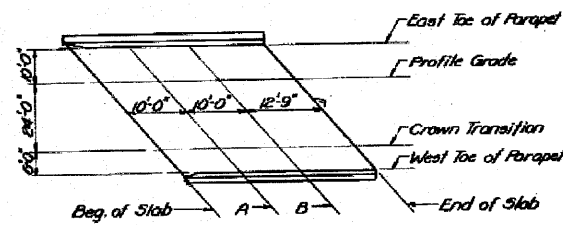
GENERAL PLAN
 F.A. Rte. 410, Ramps 'E' & 'F' Over F.A.L. 270
 F.A.L. Rte. 270, Sec. 82-7149
 ST. CLAIR COUNTY
 Sta. 343+61.11 (F.A.L. Rte. 270)

FOR INFORMATION ONLY

FILE NAME	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		SCALE: NA	255	82-THB-1	ST. CLAIR	43	24
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		SHEET NO. 1 OF 20 SHEETS					
	PLOT DATE = #DATE#	DATE -	REVISED -		STA. TO STA.					
						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C33

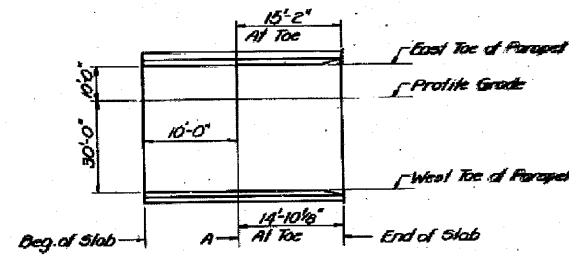
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255-82-7HB	St. Clair	88	20	69



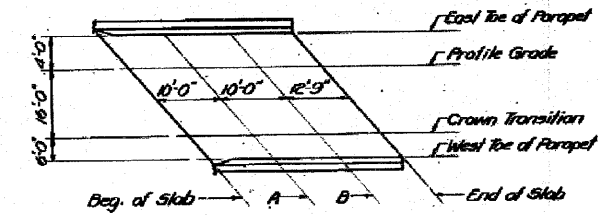
NORTH APPROACH-RAMP-E

Line	Location	Station	Offset from PG	Top of Slab
East Toe	Beg. of Slab	43+18.297	-10.0	434.121
	A	43+28.297	-10.0	434.182
	B	43+38.297	-10.0	434.238
End of Slab	Beg. of Slab	43+51.047	-10.0	434.305
	A	43+26.166	0.0	434.377
	B	43+36.166	0.0	434.435
P.G.	A	43+36.166	0.0	434.488
	B	43+58.915	0.0	434.550
	End of Slab	43+58.915	0.0	434.550
Crown Transition	Beg. of Slab	43+45.051	24.0	434.857
	A	43+55.051	24.0	434.907
	B	43+65.051	24.0	434.959
West Toe	End of Slab	43+77.800	24.0	435.006
	Beg. of Slab	43+49.772	30.0	434.756
	A	43+59.772	30.0	434.804
B	43+69.772	30.0	434.849	
	End of Slab	43+82.521	30.0	434.899



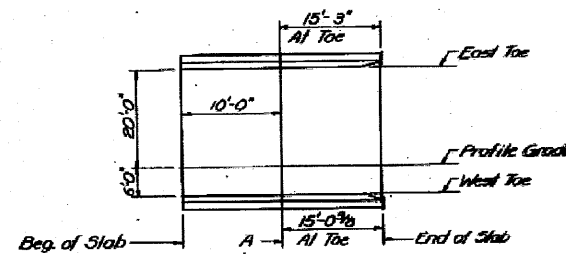
SOUTH APPROACH-RAMP-E

Line	Location	Radial Sta.	Rad. Off. from PG	Top of Slab
East Toe	Beg. of Slab	53+15.154	-10.0	421.355
	A	53+25.154	-10.0	421.025
	B	53+41.249	-10.0	420.615
P.G.	Beg. of Slab	53+16.158	0.0	420.555
	A	53+26.158	0.0	420.595
	End of Slab	53+41.240	0.0	420.585
West Toe	Beg. of Slab	53+16.180	30.0	419.275
	A	53+26.180	30.0	418.975
	End of Slab	53+41.232	30.0	418.523



NORTH APPROACH-RAMP-F

Line	Location	Station	Offset from PG	Top of Slab
East Toe	Beg. of Slab	126+84.959	-4.0	434.562
	A	126+94.959	-4.0	434.566
	B	127+04.959	-4.0	434.567
End of Slab	Beg. of Slab	127+17.708	-4.0	434.561
	A	126+86.106	0.0	434.647
	B	126+96.106	0.0	434.650
P.G.	A	127+08.106	0.0	434.649
	B	127+20.655	0.0	434.641
	End of Slab	127+20.655	0.0	434.641
Crown Transition	Beg. of Slab	127+00.696	16.0	434.400
	A	127+10.696	16.0	434.398
	B	127+20.696	16.0	434.391
End of Slab	Beg. of Slab	127+33.445	16.0	434.378
	A	127+03.417	22.0	434.274
	B	127+13.417	22.0	434.270
West Toe	127+23.417	22.0	434.262	
	End of Slab	127+38.165	22.0	434.245



SOUTH APPROACH-RAMP-F

Line	Location	Radial Sta.	Rad. Off. from PG	Top of Slab
East Toe	Beg. of Slab	36+23.006	-20.0	418.104
	A	36+33.006	-20.0	418.704
	B	36+48.105	-20.0	418.252
P.G.	Beg. of Slab	36+23.018	0.0	417.954
	A	36+33.018	0.0	417.654
	End of Slab	36+48.100	0.0	417.212
West Toe	Beg. of Slab	36+23.022	6.0	417.652
	A	36+33.022	6.0	417.352
	End of Slab	36+48.098	6.0	416.900

DESIGNED: Bob Brunette
 DRAWN: Jim Kinsour
 CHECKED: S.S. Ruchow
 DATE: J.H.
 MAY 7, 1981

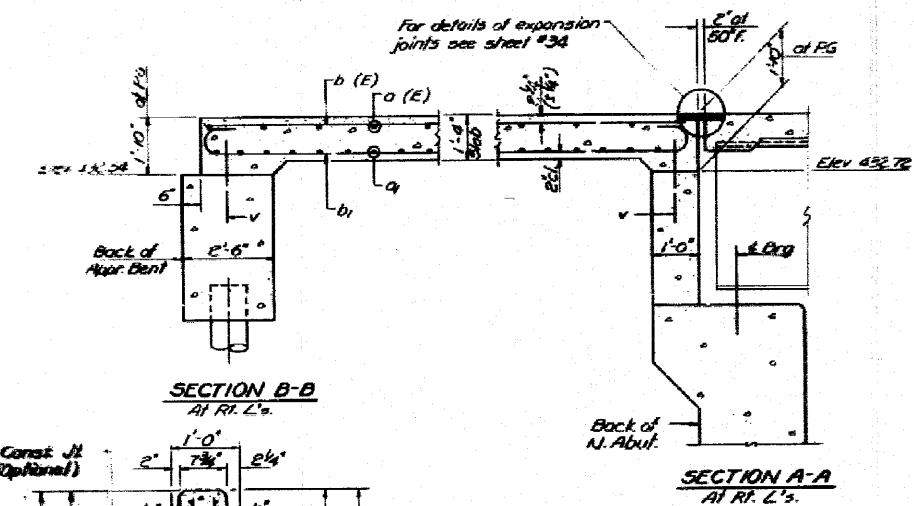
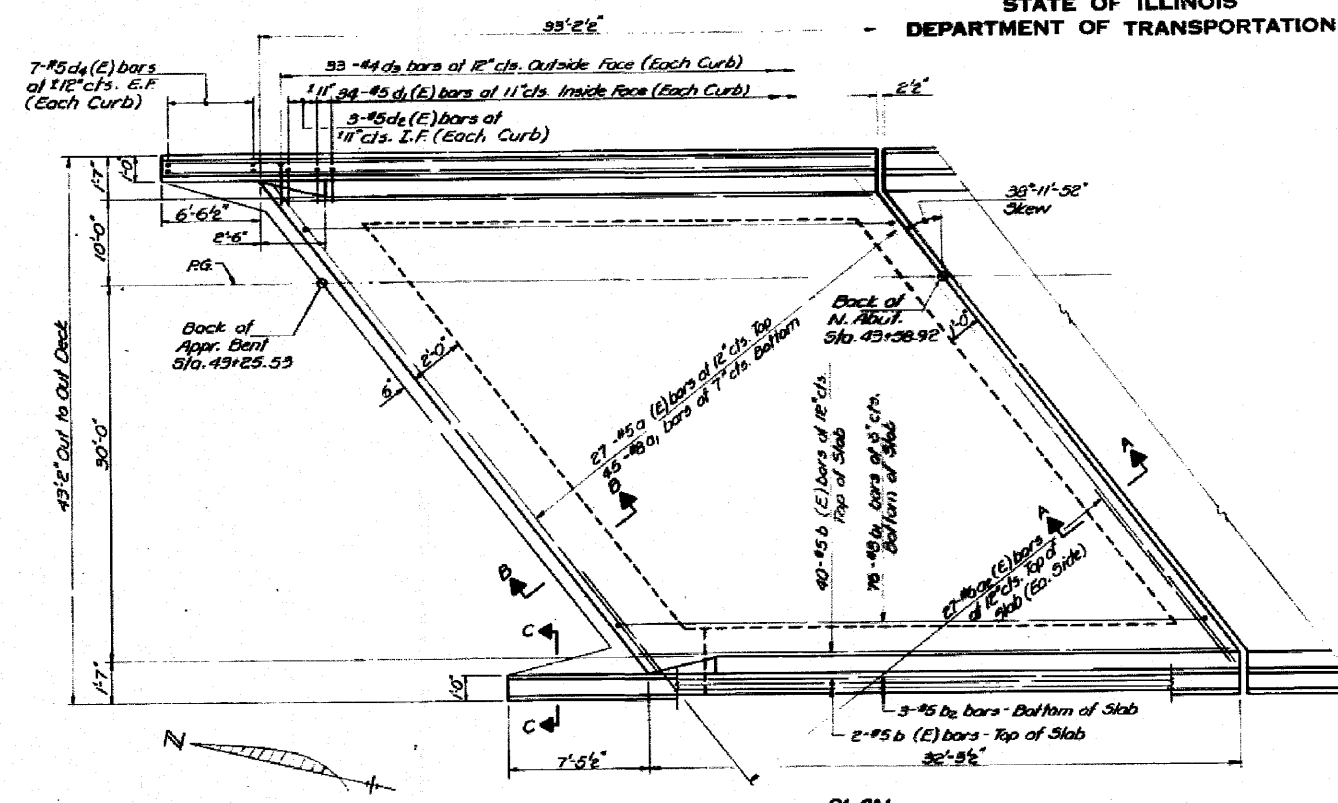
APPROACHES-RAMPS E-F
 TOP OF SLAB ELEVATIONS
 F.A.I. RT. 270 SEC. 82-7HB
 ST. CLAIR COUNTY
 STATION 343+61.11

FOR INFORMATION ONLY

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILE#	PLOT SCALE = \$SCALE#	DRAWN -	REVISED -			255	82-7HB-I	ST. CLAIR	43	25	
	PLOT DATE = \$DATE#	CHECKED -	REVISED -			CONTRACT NO. 76C33					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE: NA	SHEET NO. 2 OF 20 SHEETS	STA.	TO STA.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-7HB-I	ST. CLAIR	43	31
SHEET NO. 17 69 sheets				



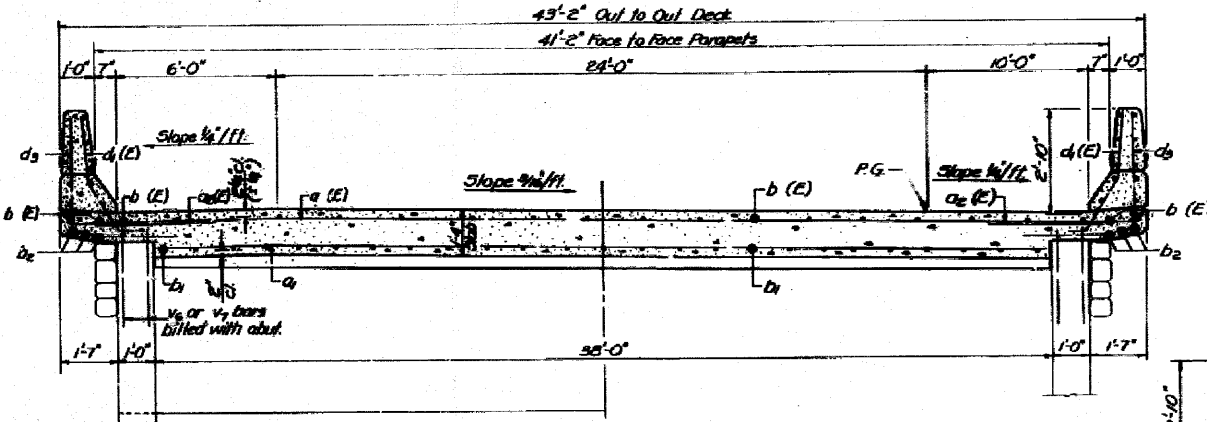
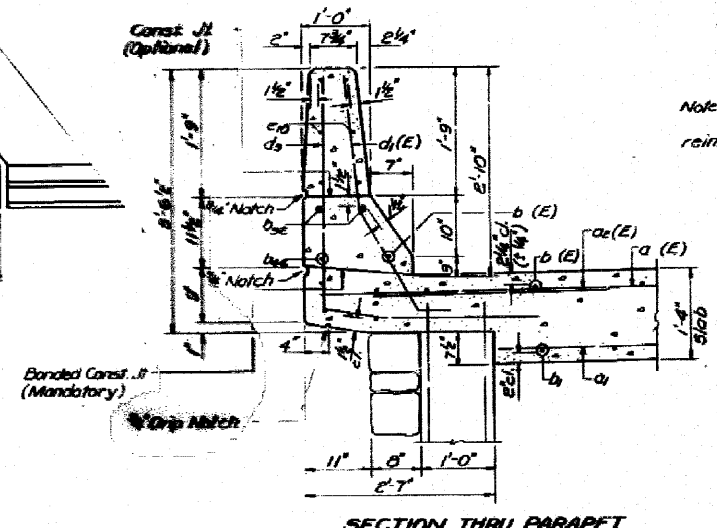
Note: Parapet Class X Concrete and reinforcement are billed with superstructure

BILL OF MATERIAL

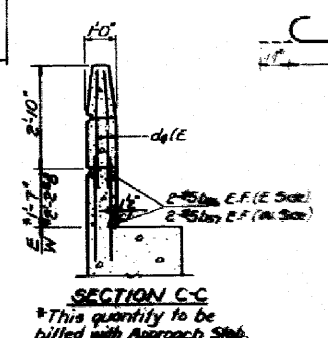
Bar	No.	Size	Length	Shape
a(E)	27	#5	52'-3"	
a1	45	#8	48'-0"	
a2(E)	54	#6	4'-0"	
b(E)	44	#5	32'-6"	
b1	76	#8	36'-4"	
b2	6	#5	36'-6"	
b2a	4	#5	6'-0"	
b2b	4	#5	7'-2"	
d1(E)	68	#5	5'-11"	L
d2(E)	6	#5	4'-2"	L
d3	66	#4	6'-2"	L
d4(E)	28	#5	5'-11"	I

Reinforcement Bars Lbs. 15,260
Pins for cement Bars (Epoxy Coated) Lbs. 2710
Class X Concrete Cu.Yds. 70.6

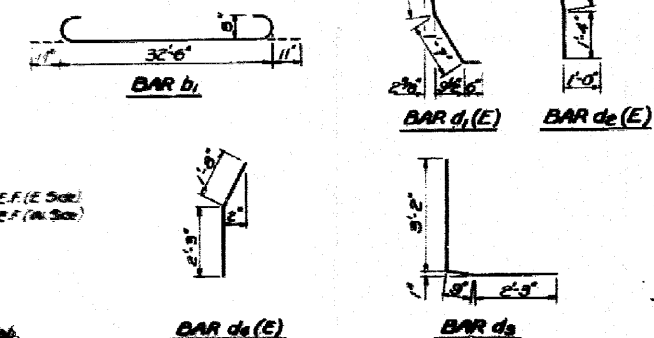
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions



GROSS SECTION
A1 RT L's
Looking North



SECTION C-C
*This quantity to be billed with Approach Slab.



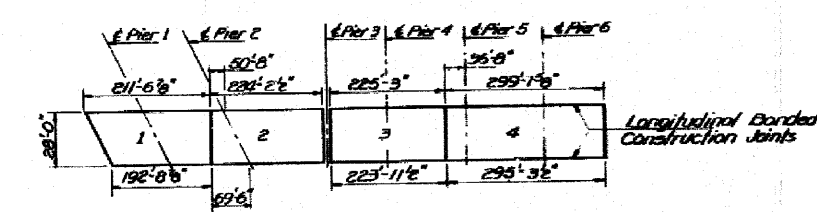
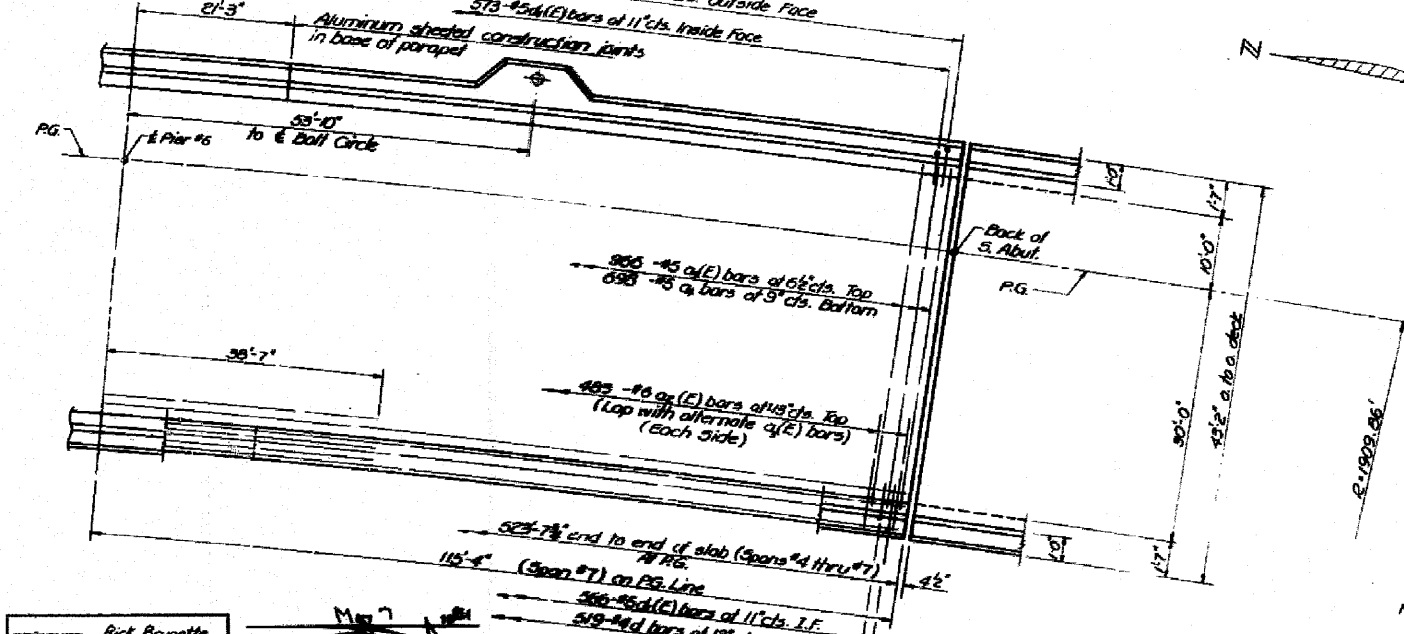
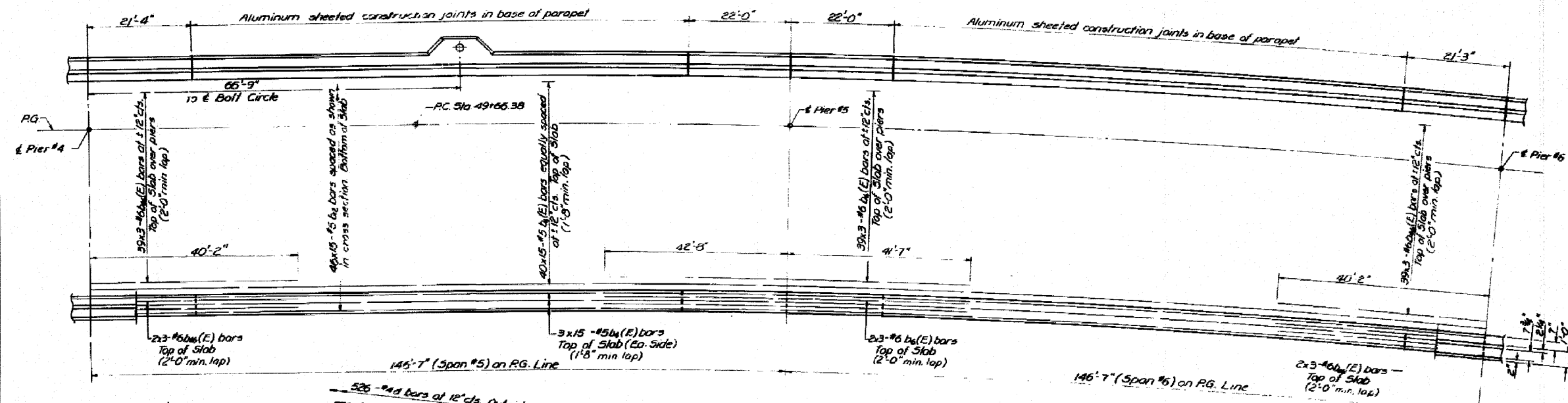
DESIGNED	Rick Brunette	DATE	May 7 1981
CHECKED	Jim Kowal	APPROVED	
DESIGNED	S.G. Finckov	APPROVED	
CHECKED	J.K.	APPROVED	

APPROACH SLAB
NORTH END RAMP 'E'
FAI RT. 210 SEC. 8C-THD
ST. CLAIR COUNTY
STATION 543+61.11

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	25	82-7HB	ST. Clair	83	35	69 SHEETS
------	----	--------	-----------	----	----	-----------



Pouring Sequence

- Portions must be poured in numerical sequence unless the next portion is poured on the same day, as allowed below, the most recent pour shall have a minimum modulus of rupture of 650 p.s.i. before pouring of the next portion will be allowed.
- Portions 1 & 3 may be poured on the same day.

Notes:
See sheet #21 for superstructure details, typical cross section and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
All of (E), of #5(E) bars will be placed radially from the P.C. to the S. Abut.

RAMP 'E'
SUPERSTRUCTURE
SPANS #5 THRU #7
F.A.I. RT. 270 SEC. 82-7HB
ST. CLAIR COUNTY
STATION 343+61.11

DESIGNED	Rick Brunette	EXAMINED	[Signature]
CHECKED	Jim Kottner	PASSED	[Signature]
DRAWN	S.G. Fitchow	APPROVED	[Signature]
CHECKED	J.K.		

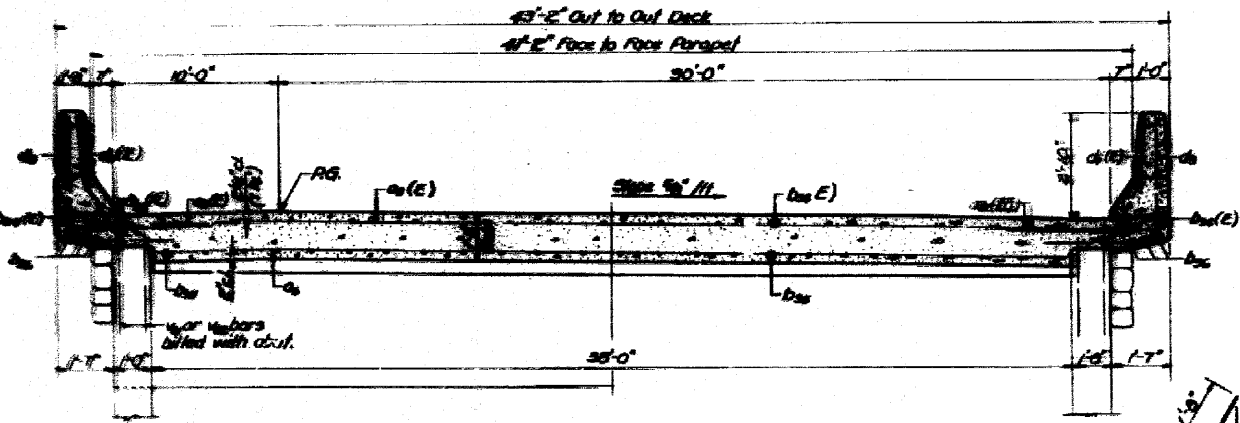
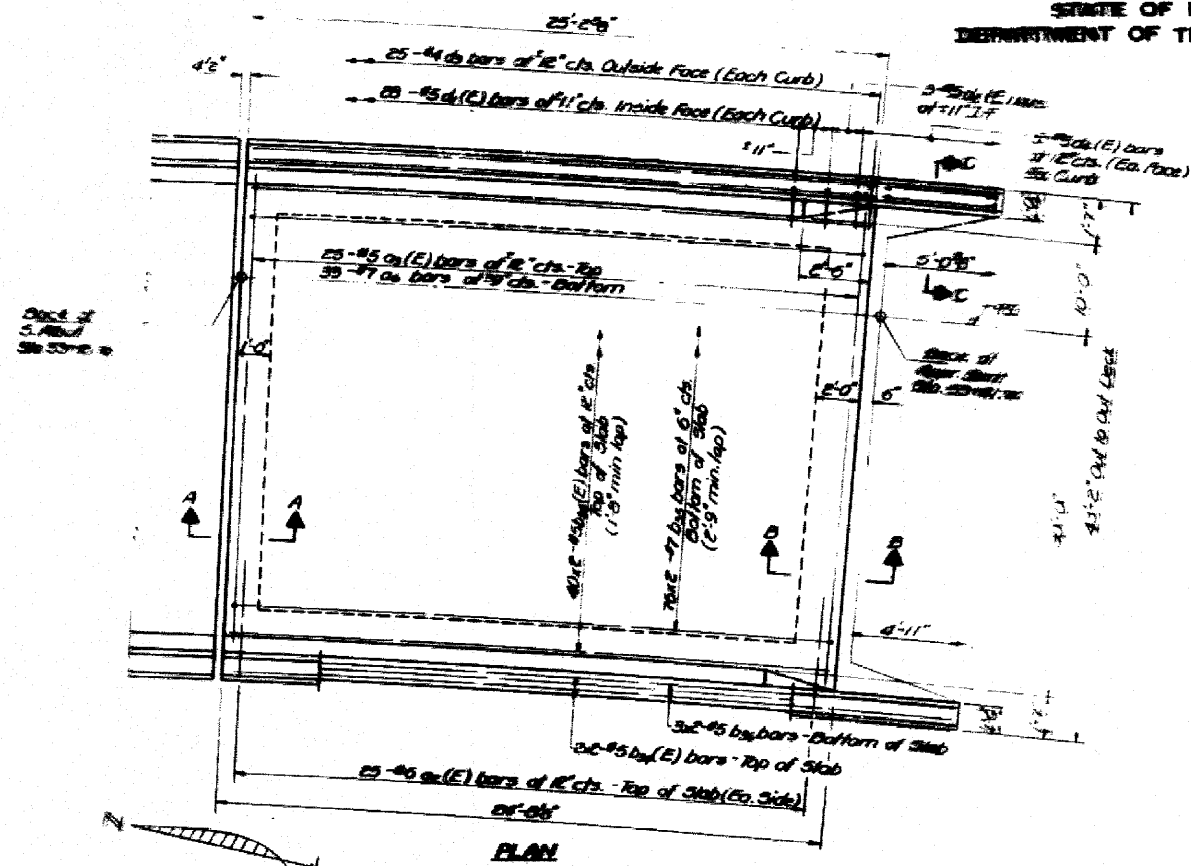
PLAN - RAMP 'E'
Spans #5 thru #7

FOR INFORMATION ONLY

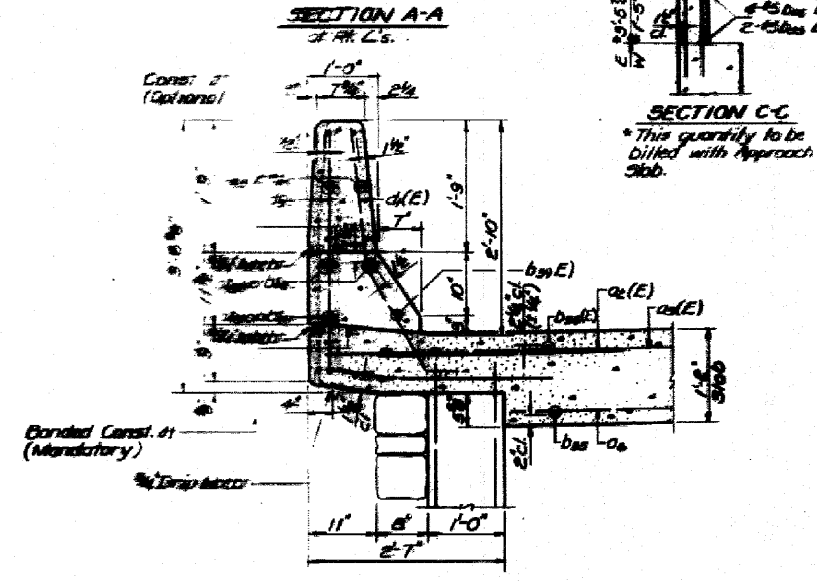
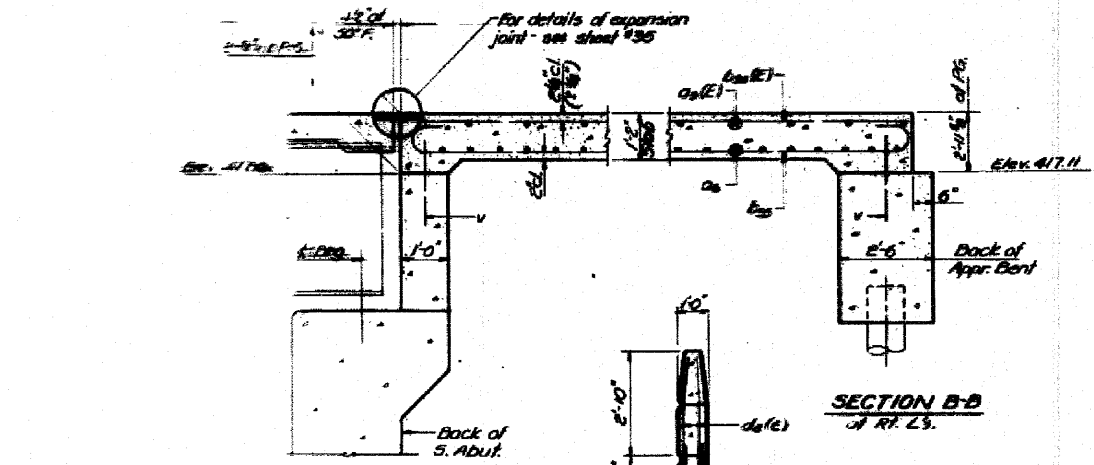
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		255	82-7HB-I	ST. CLAIR	43	28
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: NA					
	PLOT DATE = \$DATE\$	DATE -	REVISED -		SHEET NO. 5 OF 20 SHEETS	STA.	TO STA.			CONTRACT NO. 76C33
						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ST. CLAIR	83	34	SHEET NO. 20
			OF 69 SHEETS



DESIGNED	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE



BILL OF MATERIAL

Bar No.	Size	Length	Shape
db(E) 50	#6	4'-0"	
db(E) 25	#5	4'-0"	
db	#7	57'-0"	
db(E) 88	#5	19'-4"	
db	#7	14'-0"	
db	#8	13'-0"	
db	#5	5'-0"	
db(E) 36	#5	9'-11"	
db(E) 5	#5	4'-0"	
db	#8	6'-0"	
db(E) 20	#5	9'-11"	
Reinforcement Bars Lbs. 7570			
Reinforcement Bars (Epoxy Coated) Lbs. 2930			
Class X Concrete Cu.Yds. 54.9			

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

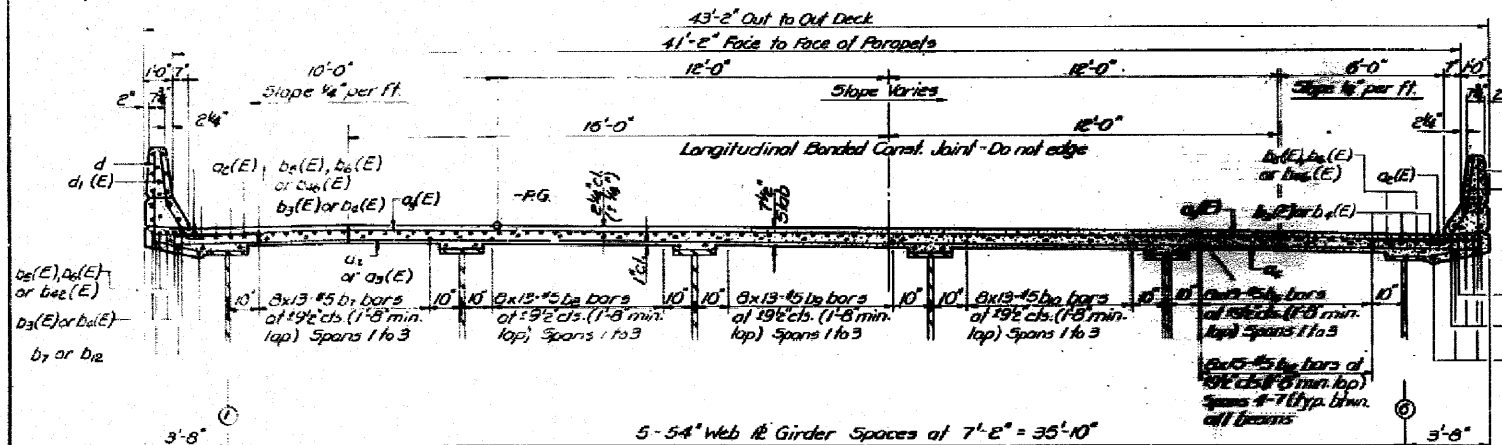
APPROACH SLAB
SOUTH END - RAMP 'E'
F.A.I. RT. 255 - SEG. 02-7HD
ST. CLAIR COUNTY
STATUTE 345-31.11

FOR INFORMATION ONLY

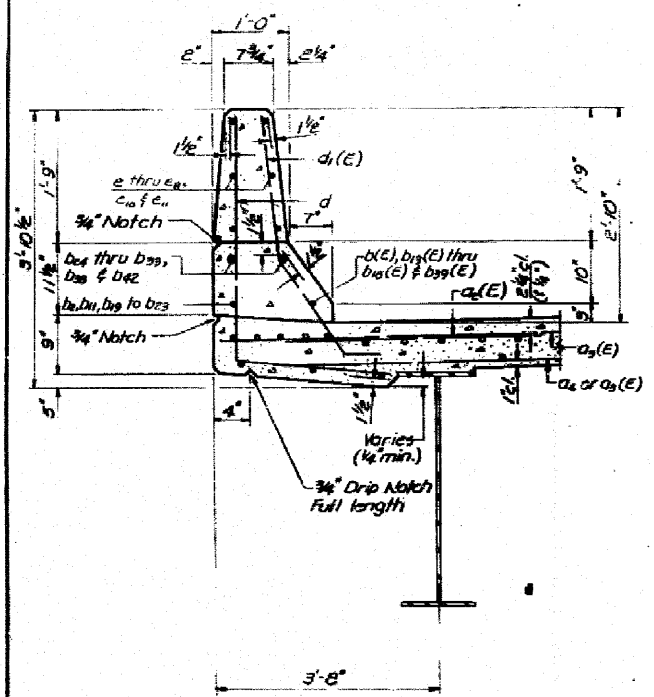
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

2' Open Joint at 50' of Rt. L.S. (N. Abut.)
4' Open Joint at 50' of Rt. L.S. (S. Abut.)

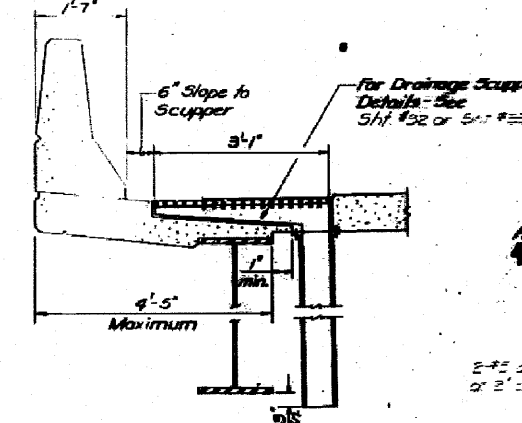
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	B2-7HB	ST. CLAIR	43	35



CROSS SECTION
(Looking South)

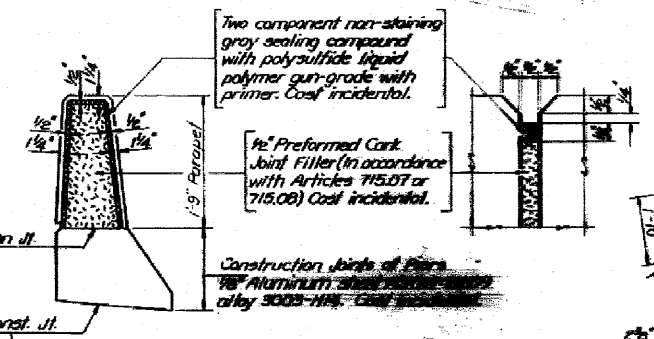


SECTION THRU PARAPET

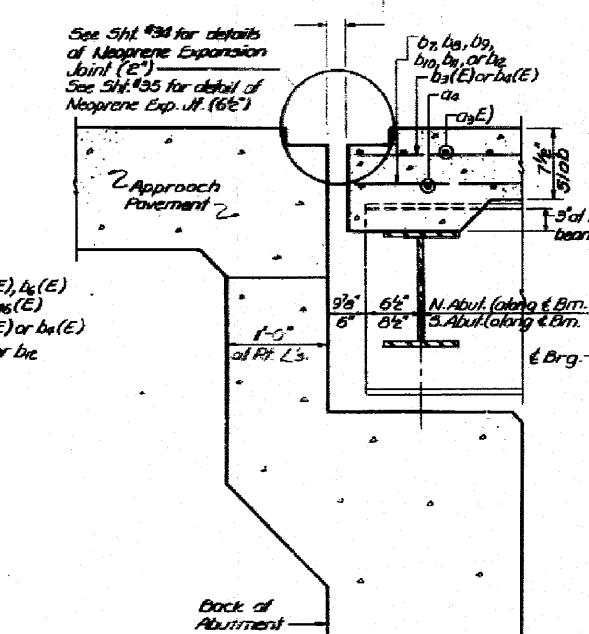


SECTION A-A

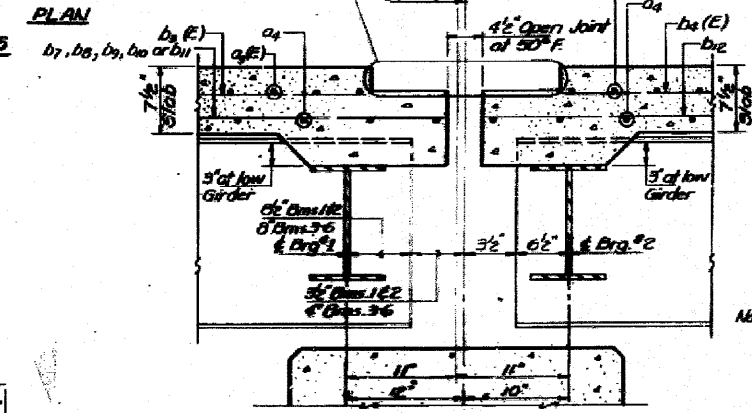
DRAINAGE SCUPPER DETAILS



PARAPET JOINT DETAILS



SECTION THRU ABUT'S
Looking East - North Abutment
Looking West - South Abutment



SECTION THRU PIER 3
Looking East

BILL OF MATERIAL

Pier No.	Size	Quantity	Length	Notes
a1(E)	2	45	32'-3"	
a2(E)	1787	45	4'-0"	
a3(E)	1778	45	41'-2"	
a4	1242	45	41'-2"	
a5(E)	88	45	2'-0"	
b1(E)	17	45	32'-6"	
b2	15	45	32'-6"	
b3(E)	595	45	35'-6"	
b4(E)	690	45	36'-5"	
b5(E)	129	45	25'-6"	
b6(E)	129	45	29'-9"	
b7	143	45	35'-4"	
b8	104	45	34'-5"	
b9	104	45	34'-3"	
b10	104	45	35'-10"	
b11	152	45	33'-4"	
b12	690	45	36'-5"	
b13(E)	9	45	33'-4"	
b14(E)	12	45	18'-3"	
b15(E)	12	45	21'-0"	
b16(E)	5	45	30'-0"	
b17(E)	4	45	29'-0"	
b18(E)	16	45	27'-4"	
b19	12	45	19'-9"	
b20	12	45	21'-0"	
b21	5	45	30'-0"	
b22	4	45	29'-0"	
b23	16	45	27'-4"	
b24	8	45	35'-5"	
b25	6	45	18'-3"	
b26	16	45	21'-0"	
b27	8	45	21'-9"	
b28	12	45	34'-8"	
b29	36	45	35'-2"	
b30	12	45	37'-2"	
b31	12	45	36'-2"	
b32	10	45	39'-3"	
b33	8	45	35'-4"	
b34	2	45	29'-6"	
b35(E)	2	45	25'-0"	
b36	1	45	30'-6"	
b37	1	45	29'-10"	
b38	2	45	30'-6"	
b39	2	45	39'-6"	
b40	387	46	07'-7"	
d	1896	44	5'-8"	
d1(E)	2067	45	3'-11"	
e	72	44	17'-0"	
e1	96	44	17'-5"	
e2	126	44	18'-1"	
e3	120	44	18'-6"	
e4	54	44	18'-11"	
e5	60	44	19'-11"	
e6	48	44	20'-11"	
e7	24	44	21'-8"	
e8	6	44	29'-10"	
e9	12	44	39'-6"	
e10	6	44	30'-6"	

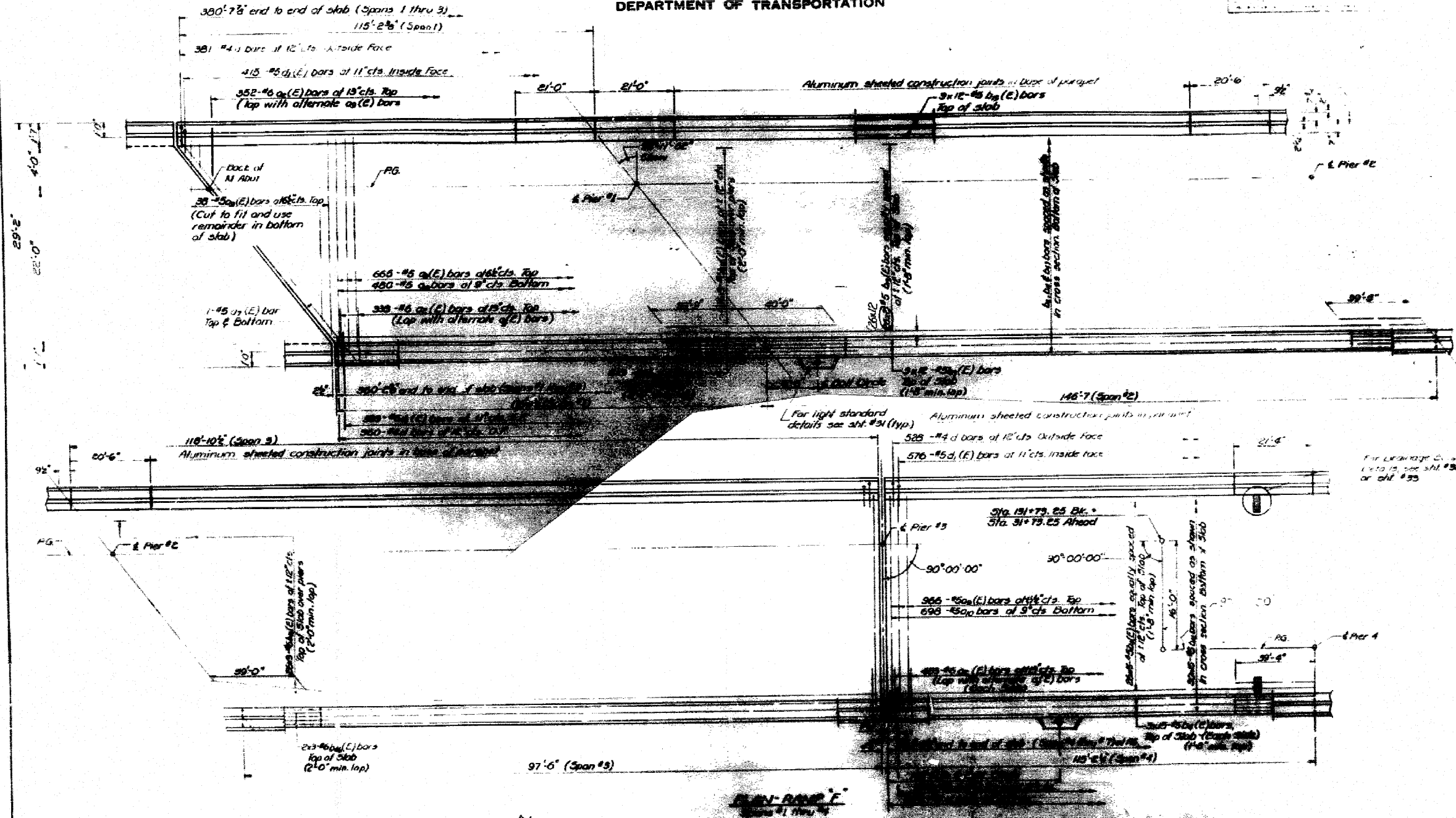
Note: Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

SUPERSTRUCTURE DETAILS
RAMP-E
FAL RT. 270 SEC. 02-7HB
ST. CLAIR COUNTY
STATION 343+61.11

DESIGNED	Rick Brunette
CHECKED	Jim Kozar
DRAWN	S.G. PENCROW
CHECKED	J.K.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED	Red Brown
DRAWN	John Jones
CHECKED	J.S. Williams
CHECKED	J.P. Smith

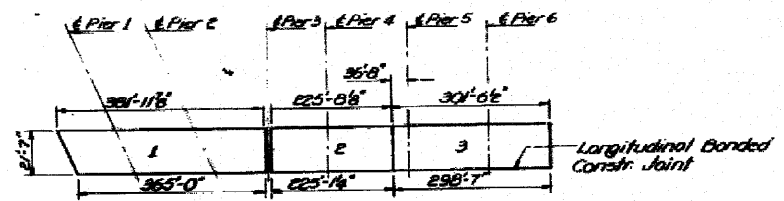
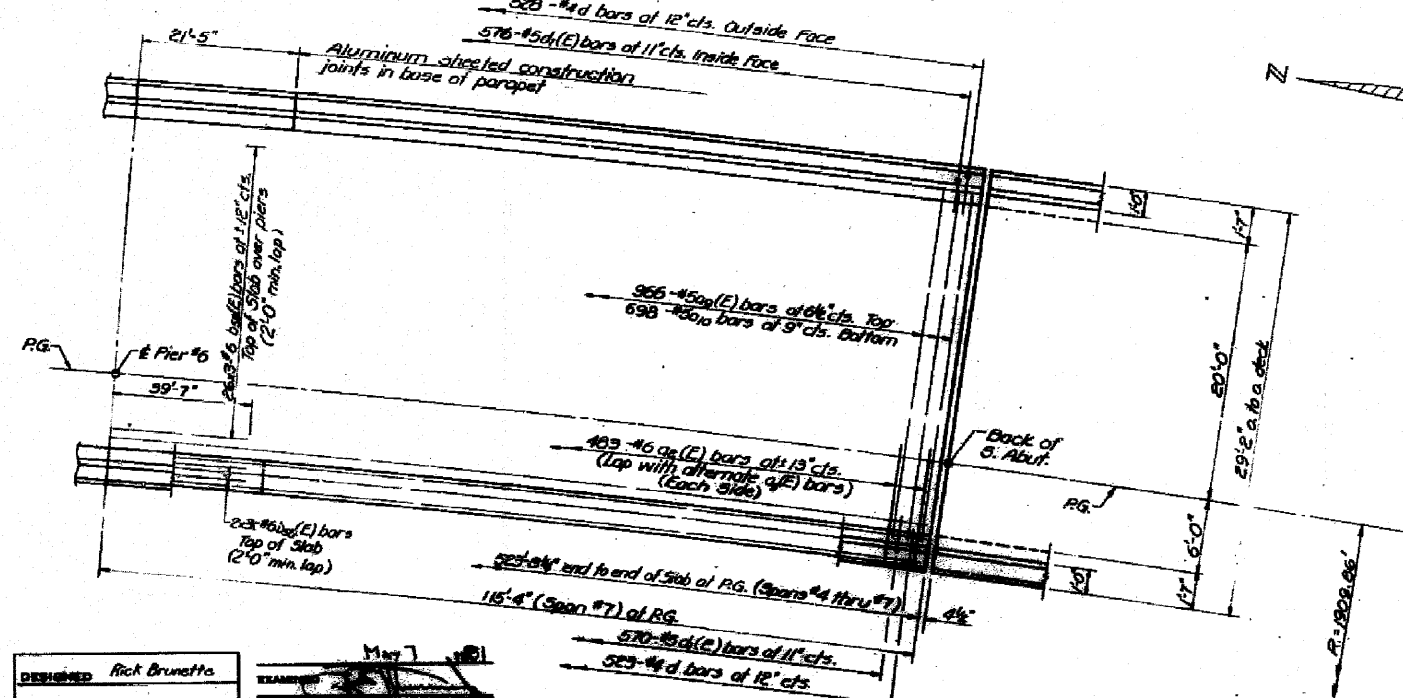
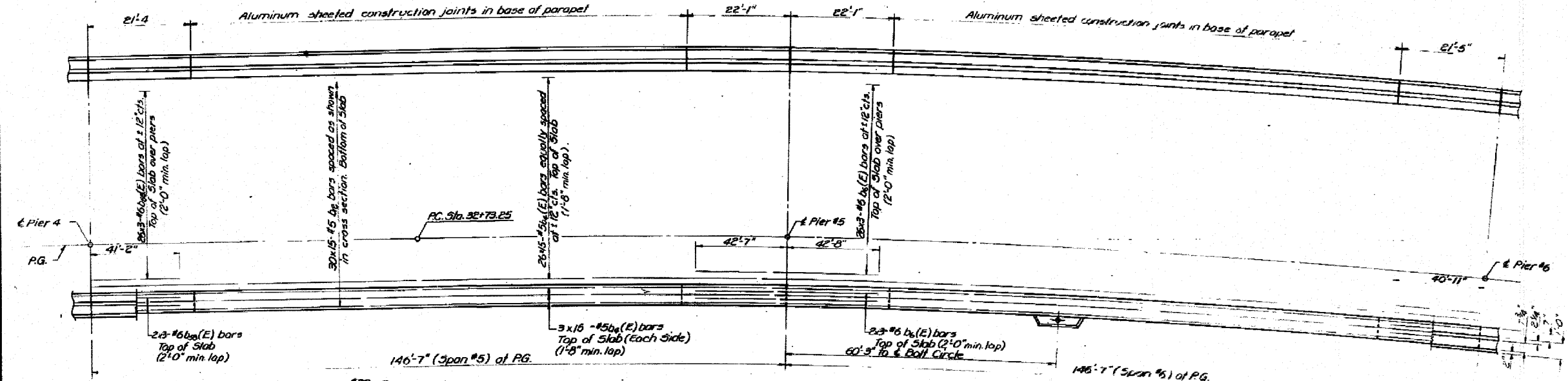


FOR INFORMATION ONLY

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -				255	82-7HB-I	ST. CLAIR	43	32
	PLOT DATE = #DATE#	CHECKED -	REVISED -				CONTRACT NO. 76C33				
		DATE -	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE: NA	SHEET NO. 9 OF 20 SHEETS	STA. TO STA.					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-7HB	St. Clair	43	40
SHEET NO. 36				
69 SHEETS				



POURING SEQUENCE
 1. Portions must be poured in numerical sequence. Unless the next portion is poured on the same day, as allowed below, the most recent pour shall have a minimum modulus of rupture of 650 p.s.i. before pouring of the next portion will be allowed.
 2. Portions 1 & 2 may be poured on the same day.

Notes:
 See sheet #28 for superstructure details, typical cross section and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
 Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 All #6(E), #8(E) & #9 bars will be placed radially from the P.C. to the S. Abut.

RAMP F
SUPERSTRUCTURE
SPANS #5 THRU #7
F.A.I. RT. 270 SEC. 82-7HB
ST. CLAIR COUNTY
STATION 343+61.11

DESIGNED	Rick Brunetta	EXAMINED	May 7 1981
CHECKED	Jim Koutour	PASSED	
DRAWN	S.G. FERCHOW	APPROVED	
CHECKED	J.K.		

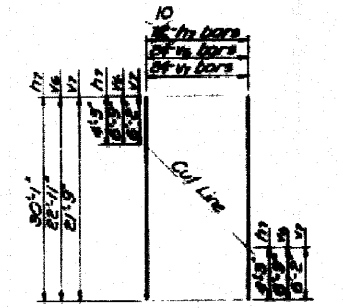
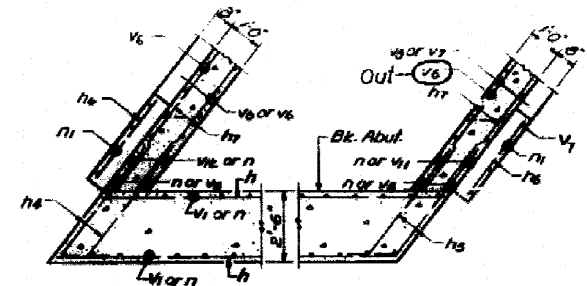
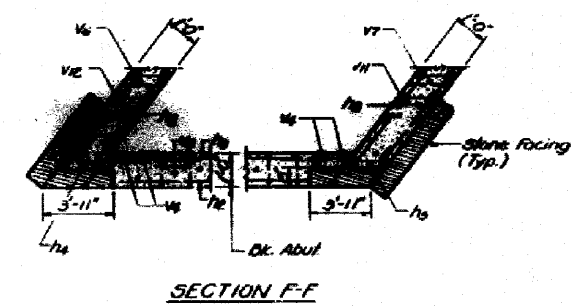
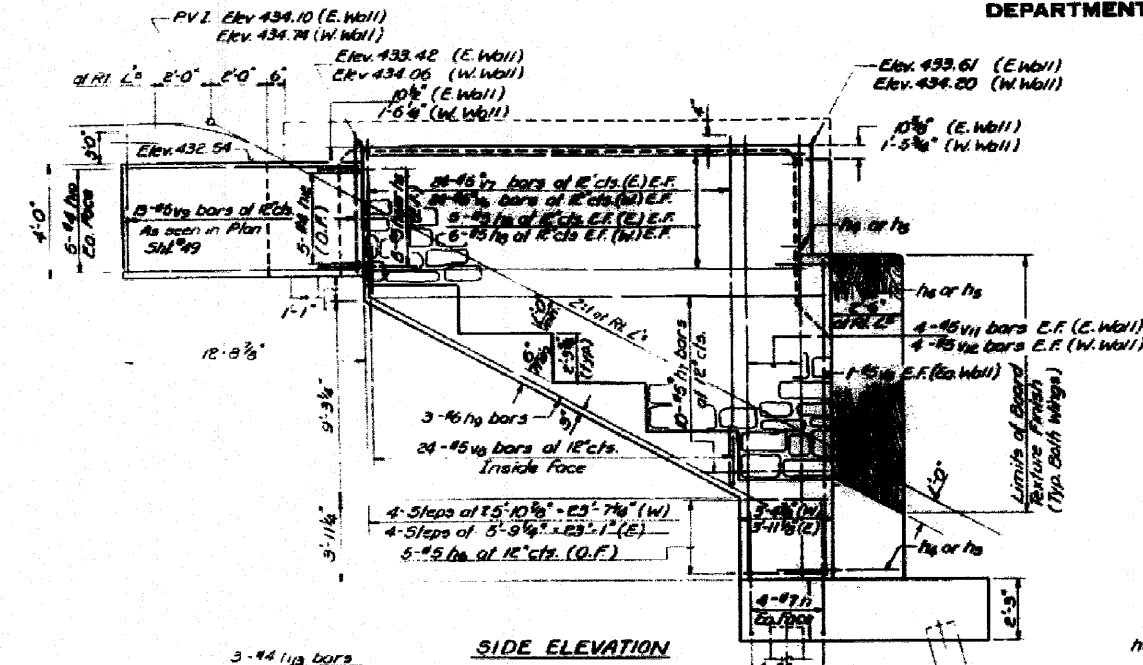
PLAN - RAMP F
Spans #5 thru #7

FOR INFORMATION ONLY

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL#	PLOT SCALE = \$SCALE#	DRAWN -	REVISED -			255	82-7HB-I	ST. CLAIR	43	33	
	PLOT DATE = \$DATE#	CHECKED -	REVISED -			CONTRACT NO. 76C33					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE: NA	SHEET NO. 10 OF 20 SHEETS	STA.	TO STA.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

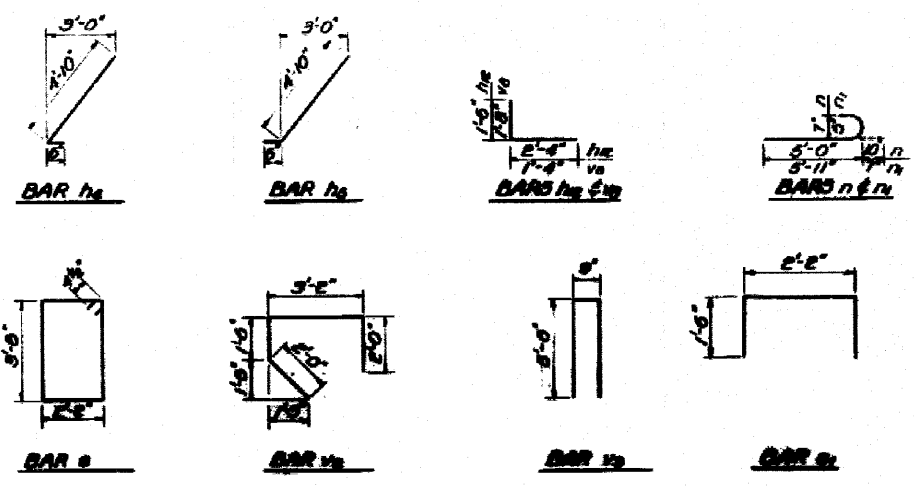
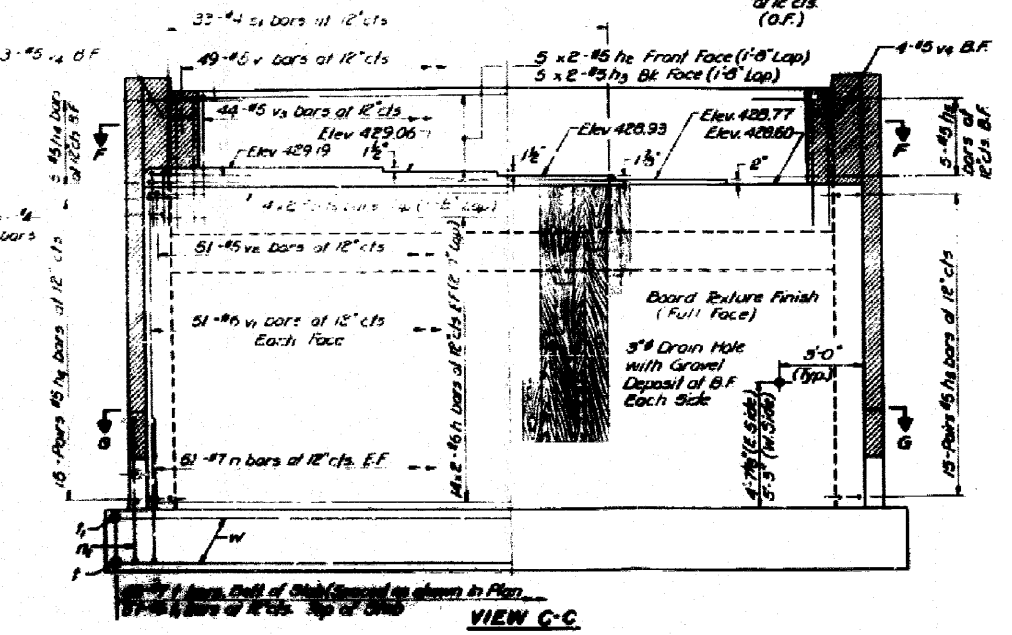
DATE	BY	CHECKED	SCALE	SHEET NO.	TOTAL SHEETS
12/25/88	J.P.M.	J.C.	AS SHOWN	43	69
PROJECT: ST. CLAIR		SHEET NO. 500			



* FIELD CUTTING DIAGRAM
Order h_1 and h_2 bars full length.
Cut to fit as shown and use
remainder of bars in other face

BILL OF MATERIAL

Bar	Qty	Length	Remarks
h	86	35	3'-7"
h	8	35	3'-7"
h	10	35	3'-7"
h	10	35	3'-7"
h	45	45	5'-3"
h	45	45	5'-3"
h	10	45	5'-7"
h	20	45	5'-7"
h	22	45	5'-7"
h	5	45	5'-7"
h	20	45	5'-7"
h	10	45	7'-0"
h	10	45	5'-0"
h	3	45	3'-6"
n	10	47	5'-0"
n	8	45	6'-0"
p	10	47	5'-0"
g	54	46	4'-8"
g	55	46	4'-8"
t	60	47	4'-8"
h	57	46	4'-8"
v	30	46	4'-8"
v	102	46	4'-8"
v	51	46	4'-8"
v	44	46	4'-8"
v	7	46	4'-8"
v	4	46	4'-8"
v	24	46	4'-8"
v	24	46	4'-8"
v	2	46	4'-8"
v	2	46	4'-8"
v	2	46	4'-8"
w	30	46	4'-8"

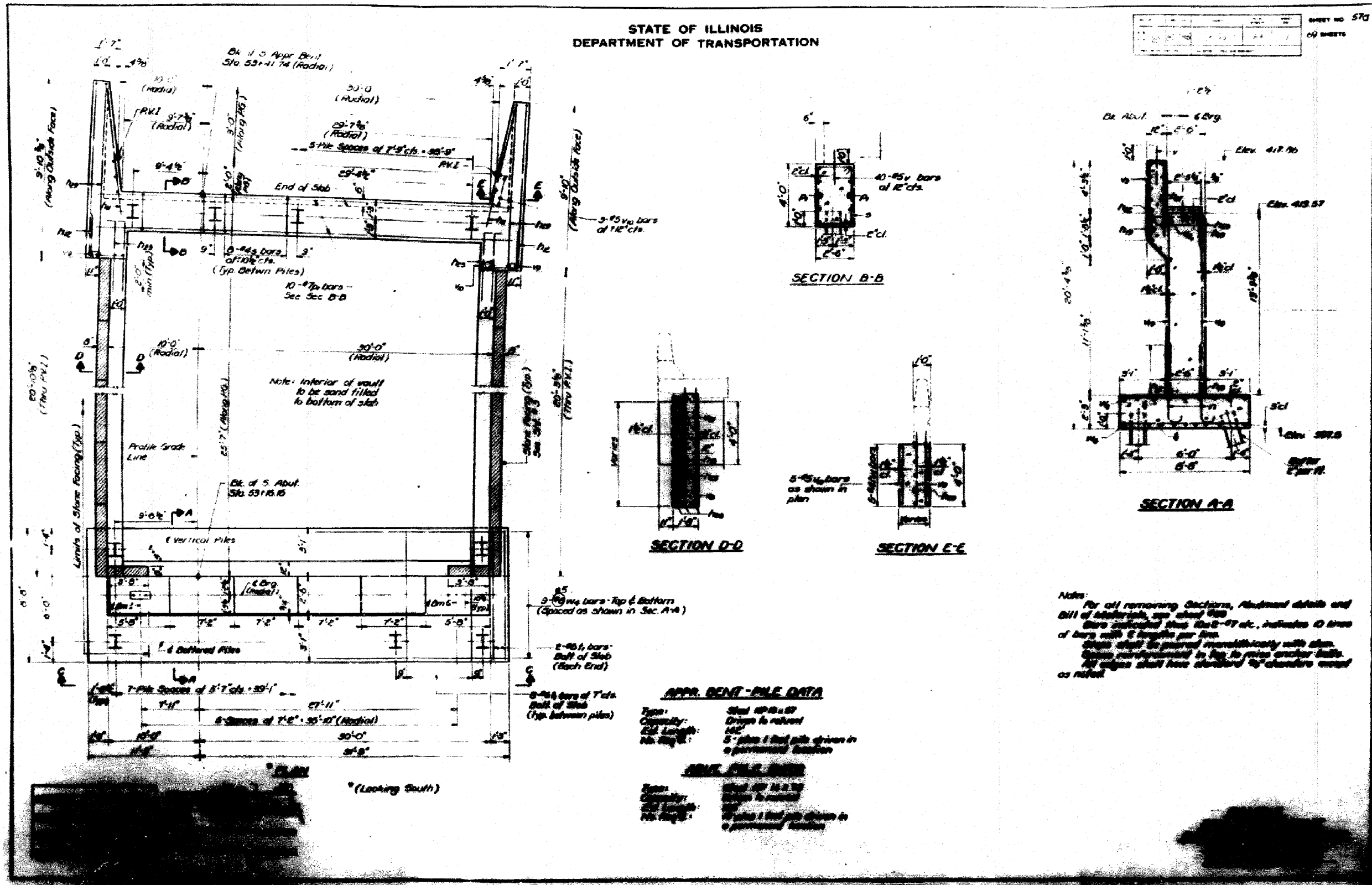


DESIGNED	J.P.M.
CHECKED	J.C.
DATE	12/25/88

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 57D
OF SHEETS



Notes:
For all remaining Sections, Abutment details and Bill of Materials, see sheet 58D.
Bars indicated thus #2-27 etc., indicate 2 lines of bars with 2 lengths per line.
Spans shall be poured monolithically with abutments.
Spans shall be cast in place on roller forms.
All spans shall have checkered or cleated metal as noted.

APPR. BENT-PILE DATA
Type: Steel 40# x 67
Capacity: Design to resist
Est. Length: 110'
No. Piles: 5 - plus 1 end pile driven in a permanent location

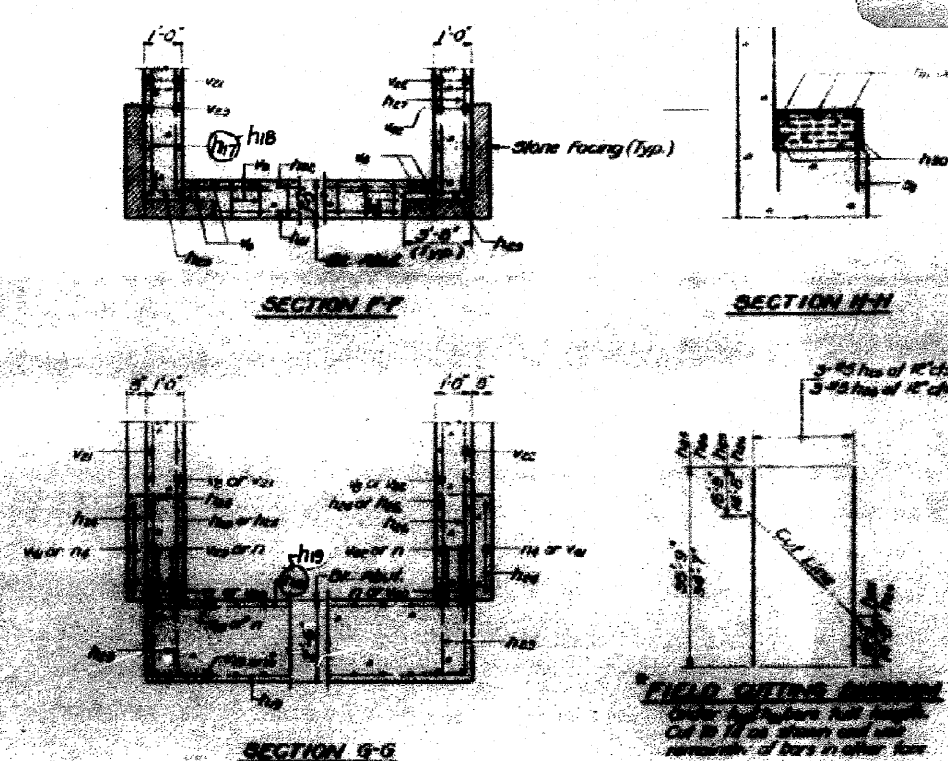
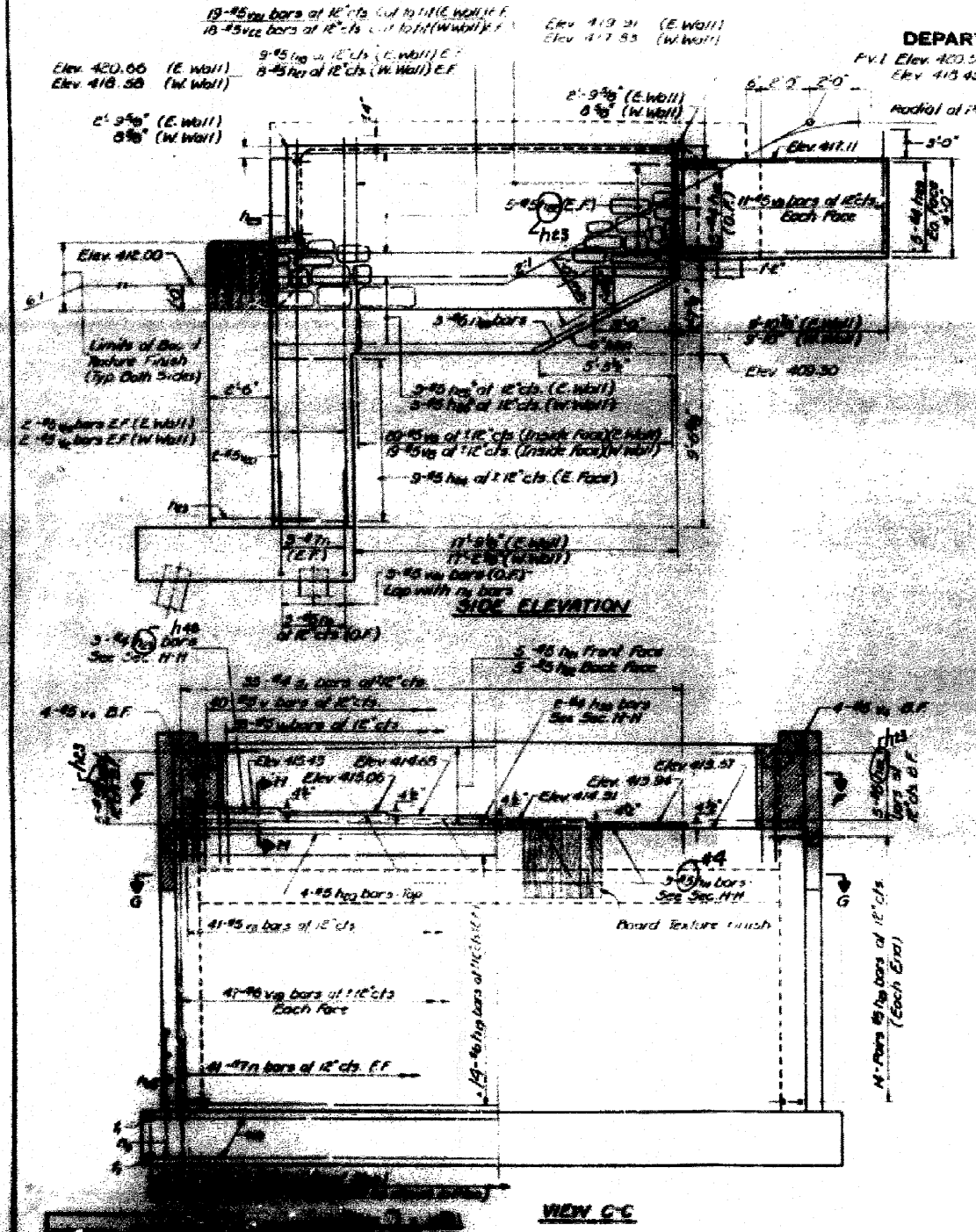
ABUT. PILE DATA
Type: Steel 40# x 67
Capacity: Design to resist
Est. Length: 110'
No. Piles: 5 - plus 1 end pile driven in a permanent location

FOR INFORMATION ONLY

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -		SCALE: NA	SHEET NO. 15 OF 20 SHEETS	STA.	255	82-7HB-I	ST. CLAIR	43	38
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -				TO STA.					
	PLOT DATE = #DATE#	DATE -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C33

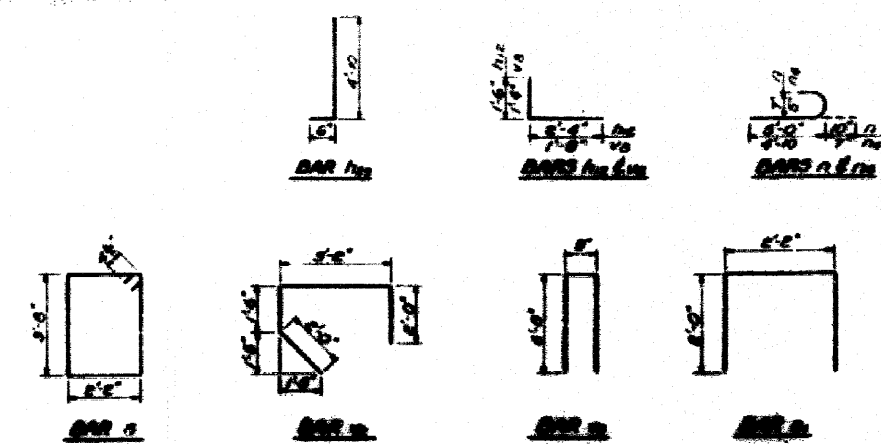
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

25	78B	11	11	29
----	-----	----	----	----



BILL OF MATERIALS

NO.	DESCRIPTION	QTY.	UNIT
1	Concrete	1.00	CU YD
2	Reinforcing Steel	1.00	TON
3	Stone Facing	1.00	SQ YD
4	Formwork	1.00	SQ YD
5	Gravel	1.00	CY
6	Gravel	1.00	CY
7	Gravel	1.00	CY
8	Gravel	1.00	CY
9	Gravel	1.00	CY
10	Gravel	1.00	CY
11	Gravel	1.00	CY
12	Gravel	1.00	CY
13	Gravel	1.00	CY
14	Gravel	1.00	CY
15	Gravel	1.00	CY
16	Gravel	1.00	CY
17	Gravel	1.00	CY
18	Gravel	1.00	CY
19	Gravel	1.00	CY
20	Gravel	1.00	CY
21	Gravel	1.00	CY
22	Gravel	1.00	CY
23	Gravel	1.00	CY
24	Gravel	1.00	CY
25	Gravel	1.00	CY
26	Gravel	1.00	CY
27	Gravel	1.00	CY
28	Gravel	1.00	CY
29	Gravel	1.00	CY
30	Gravel	1.00	CY
31	Gravel	1.00	CY
32	Gravel	1.00	CY
33	Gravel	1.00	CY
34	Gravel	1.00	CY
35	Gravel	1.00	CY
36	Gravel	1.00	CY
37	Gravel	1.00	CY
38	Gravel	1.00	CY
39	Gravel	1.00	CY
40	Gravel	1.00	CY
41	Gravel	1.00	CY
42	Gravel	1.00	CY
43	Gravel	1.00	CY
44	Gravel	1.00	CY
45	Gravel	1.00	CY
46	Gravel	1.00	CY
47	Gravel	1.00	CY
48	Gravel	1.00	CY
49	Gravel	1.00	CY
50	Gravel	1.00	CY
51	Gravel	1.00	CY
52	Gravel	1.00	CY
53	Gravel	1.00	CY
54	Gravel	1.00	CY
55	Gravel	1.00	CY
56	Gravel	1.00	CY
57	Gravel	1.00	CY
58	Gravel	1.00	CY
59	Gravel	1.00	CY
60	Gravel	1.00	CY
61	Gravel	1.00	CY
62	Gravel	1.00	CY
63	Gravel	1.00	CY
64	Gravel	1.00	CY
65	Gravel	1.00	CY
66	Gravel	1.00	CY
67	Gravel	1.00	CY
68	Gravel	1.00	CY
69	Gravel	1.00	CY
70	Gravel	1.00	CY
71	Gravel	1.00	CY
72	Gravel	1.00	CY
73	Gravel	1.00	CY
74	Gravel	1.00	CY
75	Gravel	1.00	CY
76	Gravel	1.00	CY
77	Gravel	1.00	CY
78	Gravel	1.00	CY
79	Gravel	1.00	CY
80	Gravel	1.00	CY
81	Gravel	1.00	CY
82	Gravel	1.00	CY
83	Gravel	1.00	CY
84	Gravel	1.00	CY
85	Gravel	1.00	CY
86	Gravel	1.00	CY
87	Gravel	1.00	CY
88	Gravel	1.00	CY
89	Gravel	1.00	CY
90	Gravel	1.00	CY
91	Gravel	1.00	CY
92	Gravel	1.00	CY
93	Gravel	1.00	CY
94	Gravel	1.00	CY
95	Gravel	1.00	CY
96	Gravel	1.00	CY
97	Gravel	1.00	CY
98	Gravel	1.00	CY
99	Gravel	1.00	CY
100	Gravel	1.00	CY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -			255	82-78B-I	ST. CLAIR	43	39	
PLOT DATE = \$DATE\$	CHECKED -	REVISED -	SCALE: NA			SHEET NO. 16 OF 20 SHEETS	STA.	TO STA.	CONTRACT NO. 76C33		
	DATE -	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

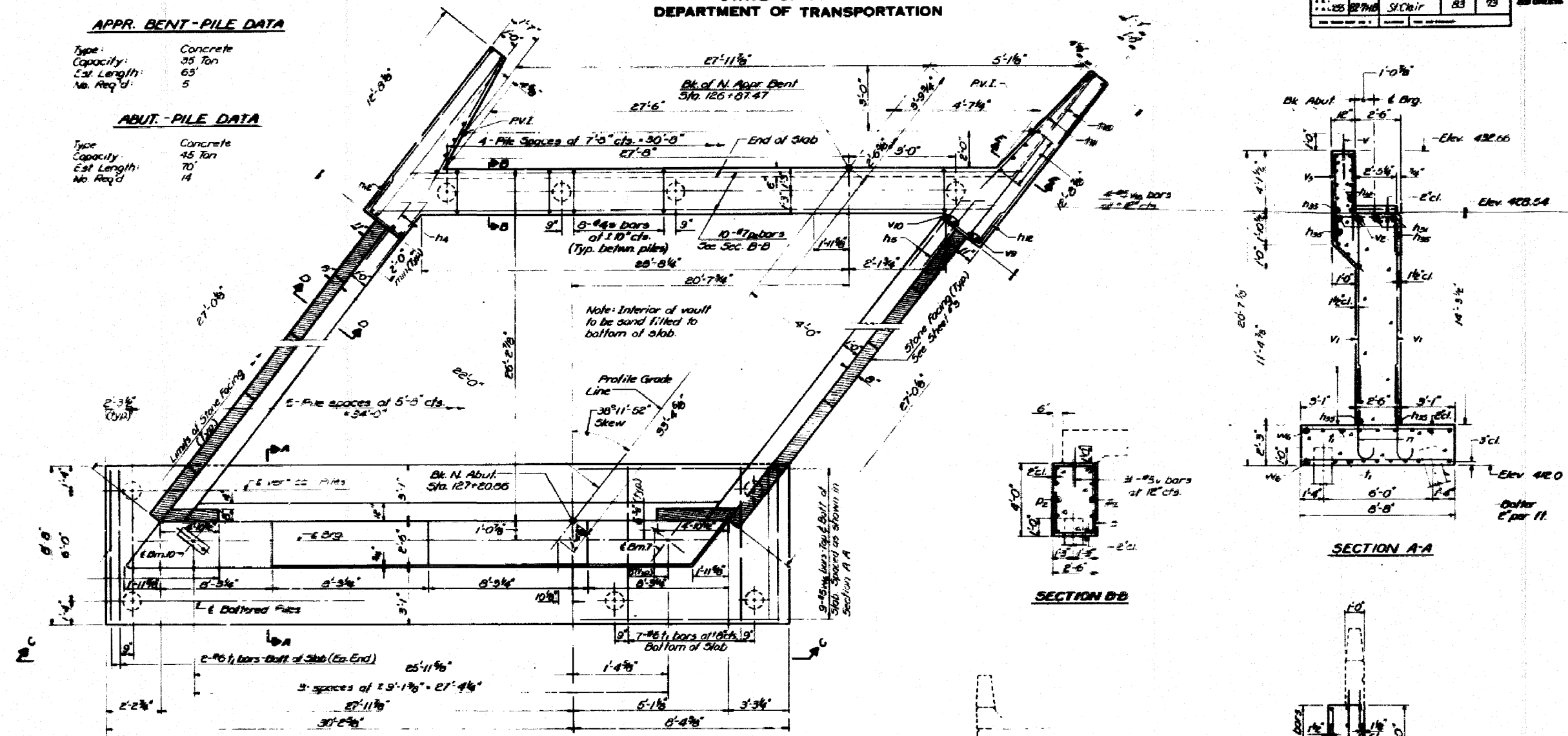
255	82-THB	St. Clair	83	73	88
-----	--------	-----------	----	----	----

APPR. BENT - PILE DATA

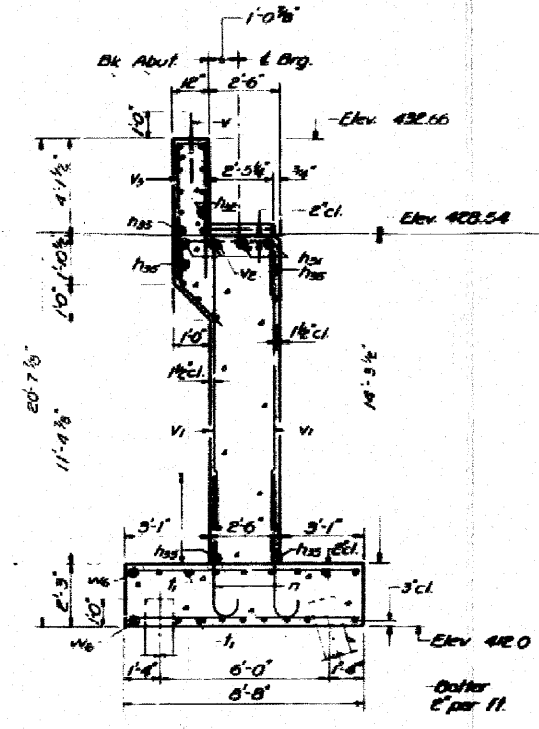
Type: Concrete
Capacity: 35 Ton
Est. Length: 63'
No. Req'd: 5

ABUT. - PILE DATA

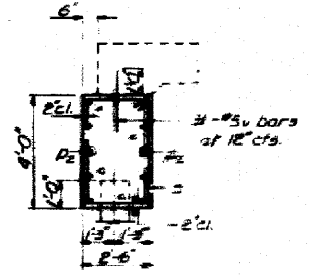
Type: Concrete
Capacity: 45 Ton
Est. Length: 70'
No. Req'd: 14



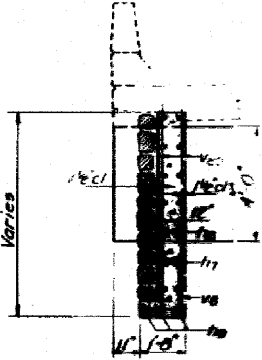
PLAN
(Looking North)



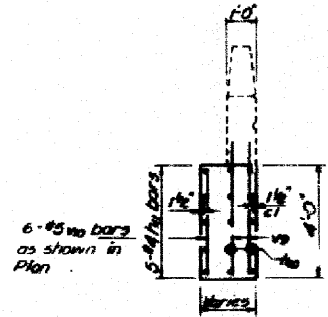
SECTION A-A



SECTION B-B

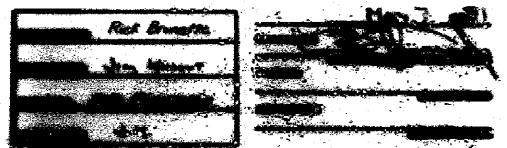


SECTION D-D



SECTION E-E

Notes:
For all remaining Sections, Abutment details and Bill of Materials, see sheet 82
Bars indicated with -17 etc. indicates 10 lines of bars with 7 bars per line.
Spans shall be poured simultaneously with abutments.
Spans reinforcement to be in accordance with sheet 82.
All edges shall have standard chamfers except as noted.

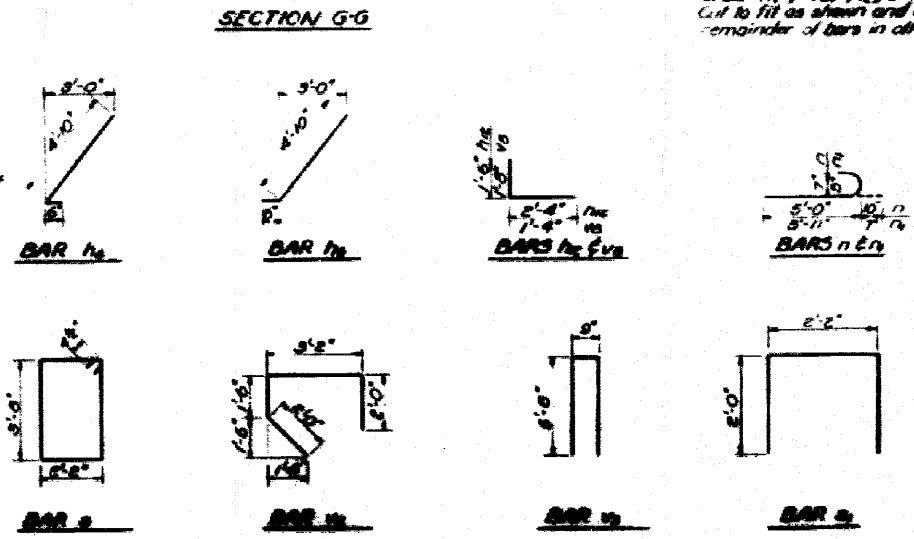
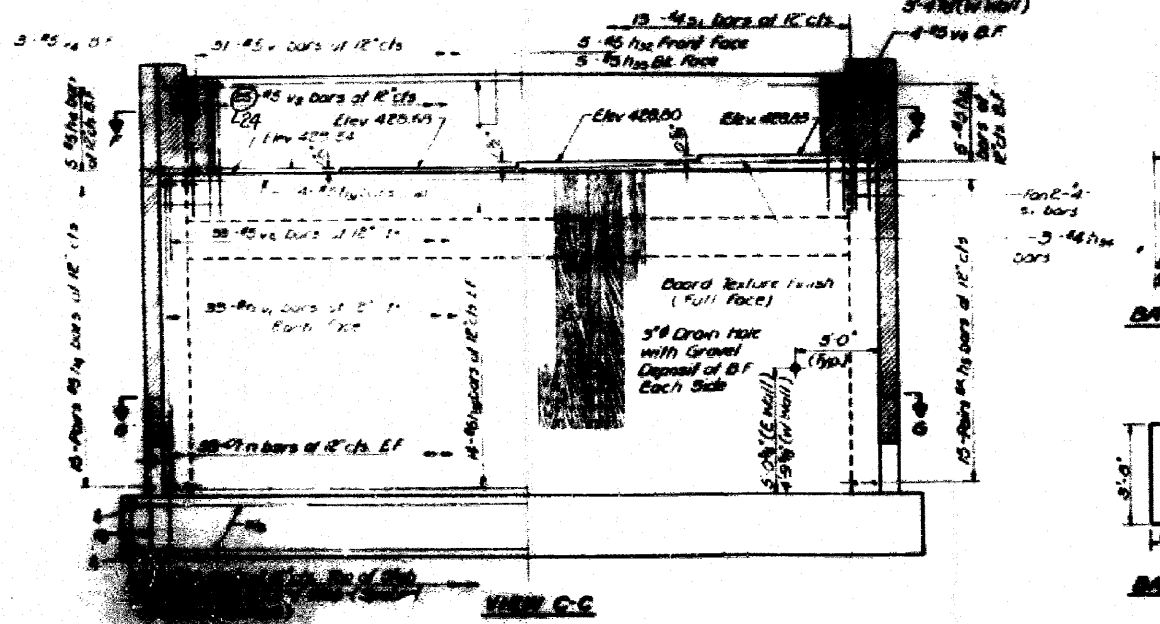
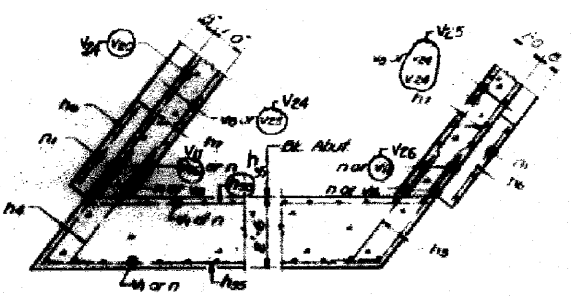
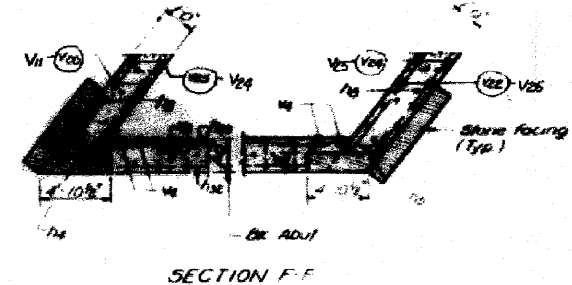
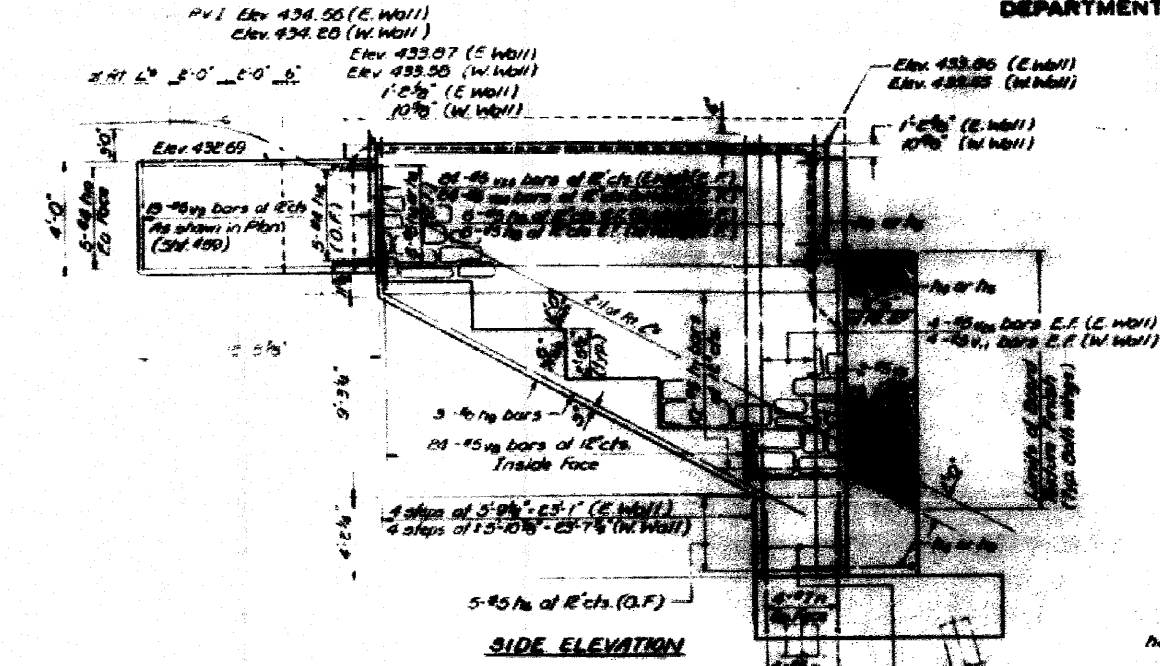


FOR INFORMATION ONLY

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN -	REVISED -			255	82-THB-I	ST. CLAIR	43	40	
		CHECKED -	REVISED -			CONTRACT NO. 76C33					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE: NA	SHEET NO. 17 OF 20 SHEETS	STA.	TO STA.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-7HB-I	ST. CLAIR	43	41



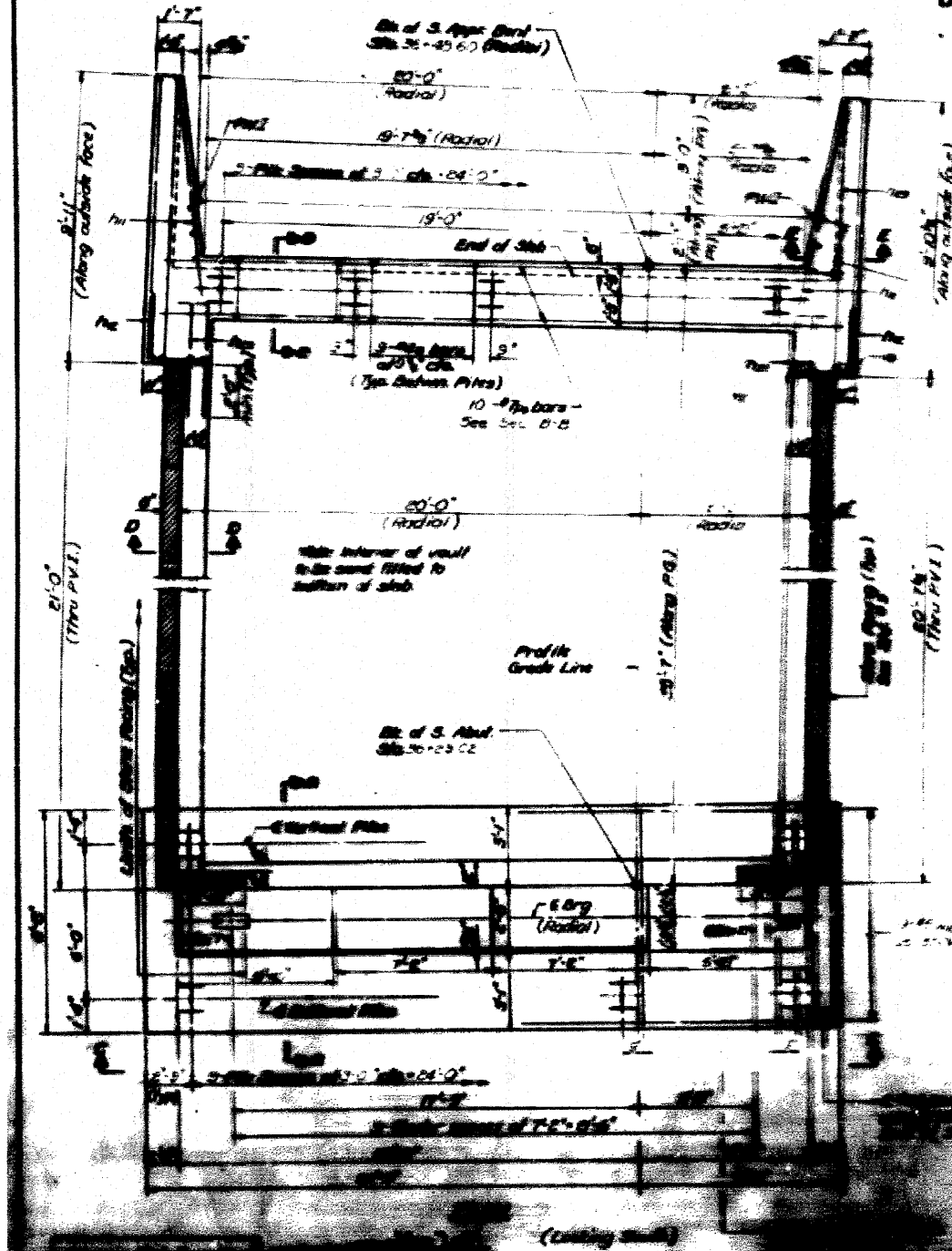
BILL OF MATERIAL

Bar	Qty	Size	Notes
1	10	#5	
2	10	#5	
3	10	#5	
4	10	#5	
5	10	#5	
6	10	#5	
7	10	#5	
8	10	#5	
9	10	#5	
10	10	#5	
11	10	#5	
12	10	#5	
13	10	#5	
14	10	#5	
15	10	#5	
16	10	#5	
17	10	#5	
18	10	#5	
19	10	#5	
20	10	#5	
21	10	#5	
22	10	#5	
23	10	#5	
24	10	#5	
25	10	#5	
26	10	#5	
27	10	#5	
28	10	#5	
29	10	#5	
30	10	#5	
31	10	#5	
32	10	#5	
33	10	#5	
34	10	#5	
35	10	#5	
36	10	#5	
37	10	#5	
38	10	#5	
39	10	#5	
40	10	#5	
41	10	#5	
42	10	#5	
43	10	#5	
44	10	#5	
45	10	#5	
46	10	#5	
47	10	#5	
48	10	#5	
49	10	#5	
50	10	#5	
51	10	#5	
52	10	#5	
53	10	#5	
54	10	#5	
55	10	#5	
56	10	#5	
57	10	#5	
58	10	#5	
59	10	#5	
60	10	#5	
61	10	#5	
62	10	#5	
63	10	#5	
64	10	#5	
65	10	#5	
66	10	#5	
67	10	#5	
68	10	#5	
69	10	#5	
70	10	#5	
71	10	#5	
72	10	#5	
73	10	#5	
74	10	#5	
75	10	#5	
76	10	#5	
77	10	#5	
78	10	#5	
79	10	#5	
80	10	#5	
81	10	#5	
82	10	#5	
83	10	#5	
84	10	#5	
85	10	#5	
86	10	#5	
87	10	#5	
88	10	#5	
89	10	#5	
90	10	#5	
91	10	#5	
92	10	#5	
93	10	#5	
94	10	#5	
95	10	#5	
96	10	#5	
97	10	#5	
98	10	#5	
99	10	#5	
100	10	#5	

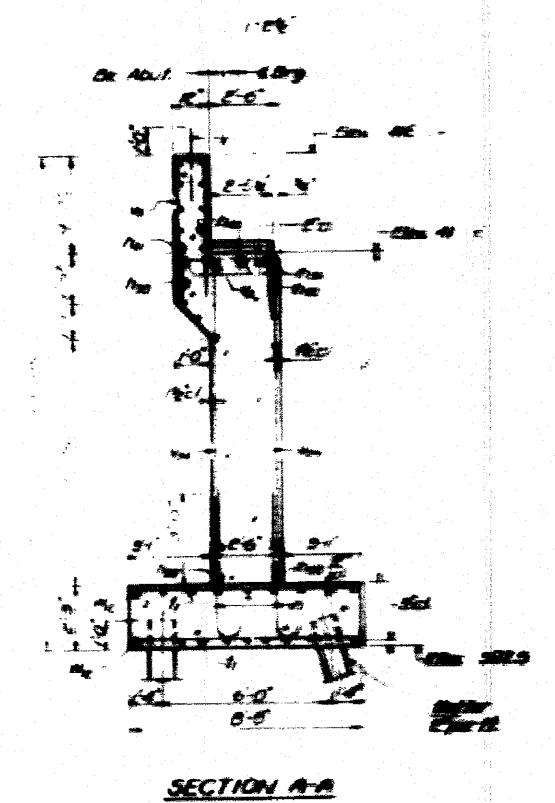
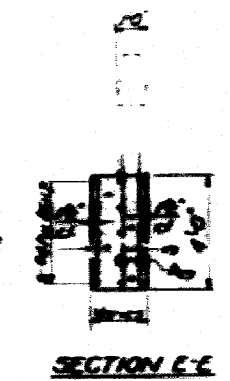
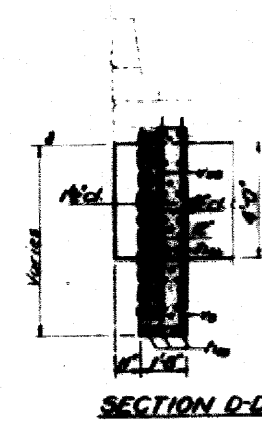
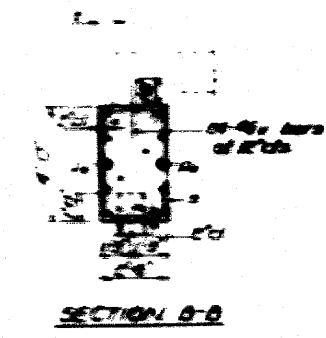
FOR INFORMATION ONLY

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			255	82-7HB-I	ST. CLAIR	43	41	
		CHECKED -	REVISED -			CONTRACT NO. 76C33					
		DATE -	REVISED -			SCALE: NA	SHEET NO. 18 OF 20 SHEETS	STA.	TO STA.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



1-25 no bar - 2" x 18" dia



Note:
 For all remaining sections, Reinforcement shall be
 as indicated, and shall be
 shown indicated that the bars, including all
 of bars with complete for the
 bars shall be placed as indicated
 in the drawings.

APPX. BENT - FILE DATA
 Date: 10/1/68
 Drawn: S. J. ...
 Checked: ...
 Project: ...

FILE - FILE DATA
 Date: 10/1/68
 Drawn: S. J. ...
 Checked: ...
 Project: ...

FOR INFORMATION ONLY

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS		F.A.I. RTE. 255	SECTION 82-7HB-I	COUNTY ST. CLAIR	TOTAL SHEETS 43	SHEET NO. 42
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: NA	SHEET NO. 19 OF 20 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C33	
	PLOT DATE = #DATE#	CHECKED -	REVISED -								
		DATE -	REVISED -								

