

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	1
		ILLINOIS	CONTRACT NO. 93624	

BRIDGE SUPERSTRUCTURE REPLACEMENT AND PAVEMENT

FAS 1600 (CH 7 /E 500th STREET)

over BEAR CREEK

PROJECT NO.: BHS-1600(121)

JOB NO.: C-96-216-13

SECTION: 11-00078-03-BR

FEDERAL HIGHWAY BRIDGE PROGRAM FUNDING



LOCATION OF SECTION INDICATED THUS: - [thick black line] -

APPROVED August 14 20 14
James R. Frankenkoff
COUNTY ENGINEER

PASSED August 27 20 14
[Signature]
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED August 27 20 14
[Signature]
DISTRICT SIX ENGINEER OF CONSTRUCTION

Releasing For Bid Based on Limited Review August 27 20 14
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEVE E. BANGE
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062-053338
LICENSE EXPIRES NOVEMBER 30, 2015
9/14/12
DATE

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-5 SUMMARY OF QUANTITIES
- 6-7 TYPICAL SECTIONS
- 8 SCHEDULE OF QUANTITIES
- 9 HORIZONTAL CONTROL TIES
- 10-13 PLAN AND PROFILES
- 14 TRAFFIC CONTROL PLAN
- 15-38 S.N. 001-3234 PLANS
- 39-40 MISCELLANEOUS DETAILS
- 41-60 CROSS SECTIONS

HIGHWAY STANDARDS

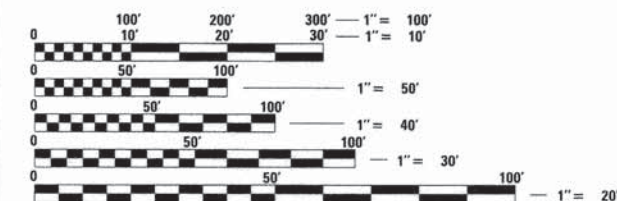
000001-06	631011-09	701901-03
280001-07	635006-03	780001-04
515001-03	635011-02	BLR 21-9
60101-01	701006-05	BLR 23-4
630001-10	701306-03	BLR 27-1

DESIGN DESIGNATION

FAS 1600 (CH 7 /E 500TH STREET)
MAJOR COLLECTOR - RURAL
ADT = 125 (2008) 160 (2034)
DESIGN SPEED = 50 MPH

PROJECT DESCRIPTION

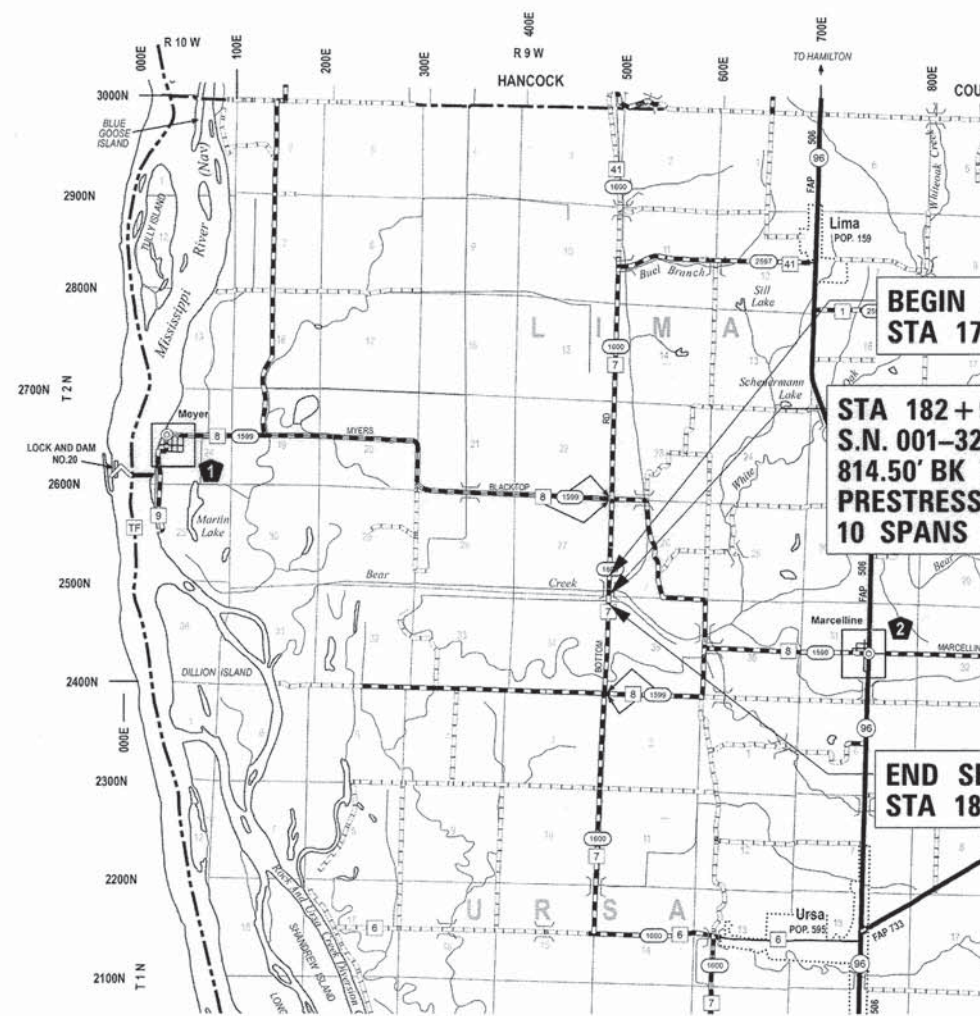
Project consists of removing and replacing the existing prestressed concrete deck beams on S.N. 001-3234 carrying FAS 1600 over Bear Creek. The existing piers shall remain in place and shall be repaired. Additional work includes HMA pavement, aggregate shoulders, guardrail, rip rap, seeding, disposing the existing beams and other miscellaneous items.



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

CONTRACT NO. 93624

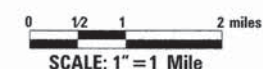


BEGIN SECTION 11-00078-03-BR
STA 177 + 75.00

STA 182 + 95.00
S.N. 001-3234
814.50' BK TO BK OF ABUTMENTS
PRESTRESSED CONCRETE DECK BEAM
10 SPANS OVER BEAR CREEK

END SECTION 11-00078-03-BR
STA 188 + 40.00

LOCATION MAP



NET LENGTH OF SECTION = 1065.0 FT. = 0.2017 MILE

Plans prepared by:
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
516 North 24th Street, Quincy, IL Ph (217)223-3670 - Fax (217)223-3603
4510 Paris Gravel Road, Hannibal, MO Ph (573)221-0020 - Fax (573)221-0012
310 N. 4th Street, Suite 100, Burlington, IA Ph (319)752-3603 - Fax (319)752-3605
49 North Prairie Street, Galesburg, IL Ph (309)342-4042 - Fax (309)341-3781
Internet Address: www.klingner.com
IL DESIGN FIRM NO.: 1842738

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

- THE NOMINAL THICKNESS FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ALL ELEVATIONS SHOWN REFER TO THE U.S.G.S. DATUM AT SEA LEVEL, UNLESS OTHERWISE NOTED.
- UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION, AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY OUT HIS OR HER OPERATIONS ACCORDINGLY.
- ADJUSTMENTS OF UTILITY LOCATIONS SHALL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED.
- ADDITIONAL DEPTH REQUIRED IN DRAINAGE STRUCTURES DUE TO CONFLICTS WITH OTHER UTILITY LINES WILL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR THE DRAINAGE STRUCTURE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER ON THE COVER SHEET.
- ALL DETAILS IN THESE PLANS SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL GOVERN.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS PART OF THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- EXISTING MAILBOXES SHALL BE TEMPORARILY RELOCATED FOR CONTINUED OPERATION AS NECESSARY DURING CONSTRUCTION. MAIL BOXES SHALL BE RELOCATED TO THEIR FINAL LOCATION AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS PART OF THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER
1-800-892-0123

KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF THIS IMPROVEMENT ARE:

ADAMS TELEPHONE COOPERATIVE	TELEPHONE	405 EMMINGA RD, GOLDEN, IL	(217)-696-4411
AMEREN CIPS	ELECTRICAL	700 JERSEY, QUINCY, IL	1-800-789-2477
NICOR GAS	GAS	1375 BUCHANAN STREET, CARTHAGE, IL	(217)-357-3105

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE, BASE, OR BACKFILL) STONE DUMPED RIPRAP	2.05 TON/CU YD 1.50 TON/CU YD
BITUMINOUS CONCRETE: BITUMINOUS MATERIALS (PRIME COAT) BITUMINOUS MATERIALS (PRIME COAT) AGGREGATE PRIME COAT BITUMINOUS CONCRETE SURFACE / BINDER	0.00038 TON/SQ YD (on pavement) 0.001425 TON/SQ YD (on aggregate) 0.002 TON/SQ YD 0.056 TON/SQ YD*IN
SEEDING AREAS: NITROGEN FERTILIZER NUTRIENT PHOSPHOROUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT AGRICULTURAL GROUND LIMESTONE MULCH TEMPORARY EROSION CONTROL SEEDING	90 LBS/ACRE 90 LBS/ACRE 90 LBS/ACRE 2 TON/ACRE 2 TON/ACRE 100 LBS/ACRE

MIXTURE REQUIREMENTS

MIXTURE NUMBER:	1	2	3
LOCATIONS:	FAS 1600	FAS 1600	FAS 1600
MIXTURE USES:	HOT-MIX ASPHALT SURFACE COURSE	HMA BINDER, BASE CSE WIDENING, PATCHING	LEVELING BINDER
AC/PG:	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4% @ N DESIGN = 50	4% @ N DESIGN = 50	4% @ N DESIGN = 50
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL 9.5 or 12.5	IL 19.0	IL 9.5
FRICITION AGGREGATE:	MIX "C"	N/A	N/A

FILE NAME = D:\13f\105\130017\05\Plans\Currents\AC130017-1ht-GenNotes.dgn



USER NAME = aeb	DESIGNED -	REVISED -
PLLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
GENERAL NOTES**

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

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 2
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0005 ROADWAY	0014 STRUCTURE
• 20200100	EARTH EXCAVATION	CU YD	65	65	
• 20400800	FURNISHED EXCAVATION	CU YD	210	210	
25000200	SEEDING, CLASS 2	ACRE	0.50	0.50	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	1	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1337	1337	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000400	PERIMETER EROSION BARRIER	FOOT	450	450	
• 28100809	STONE DUMPED RIPRAP, CLASS A5	TON	598	598	
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	220	220	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	60	60	
• 40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	55	55	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	135	135	
• 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	371	53	318
44000100	PAVEMENT REMOVAL	SQ YD	153	153	
• 50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
• 50102400	CONCRETE REMOVAL	CU YD	3.6		3.6
50200100	STRUCTURE EXCAVATION	CU YD	56		56
• 50300225	CONCRETE STRUCTURES	CU YD	24.8		24.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.8		9.8

• SPECIAL PROVISION
 Δ SPECIALTY ITEMS

FILE NAME = D:\131\1310017\05\Plans\Current\AC130017-sh1-Summary.dgn

KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors

USER NAME = seb
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 8/14/2014

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**ADAMS COUNTY
 HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
 SUMMARY OF QUANTITIES**

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 3
CONTRACT NO. 93624				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0005 ROADWAY	0014 STRUCTURE
50300300	PROTECTIVE COAT	SQ YD	196		196
• 50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	24331		24331
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6060		6060
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	1625		1625
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	210		210
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	2671		2671
58700300	CONCRETE SEALER	SQ FT	1448		1448
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	34		34
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	112.5	112.5	
Δ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
Δ • 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	4	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
• 63200310	GUARDRAIL REMOVAL	FOOT	252	252	
67100100	MOBILIZATION	L SUM	1	1	
Δ 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2130	2130	
Δ • 78200410	GUARDRAIL MARKERS, TYPE A	EACH	28	28	
Δ • 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	
Δ • 78202000	TERMINAL MARKER - POST MOUNTED	EACH	1	1	
• Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	200		200
• Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	28		28
• Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

• SPECIAL PROVISION
Δ SPECIALTY ITEMS

FILE NAME: G:\131\Final\1300017\05\Plans\Current\ACI130017-sh-t-Summary.dgn



USER NAME : seb
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE : 40,0000' / 1" =
 PLOT DATE : 8/14/2014

REVISOR -
 REVISION -
 REVISION -
 REVISION -

ADAMS COUNTY
HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET)
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

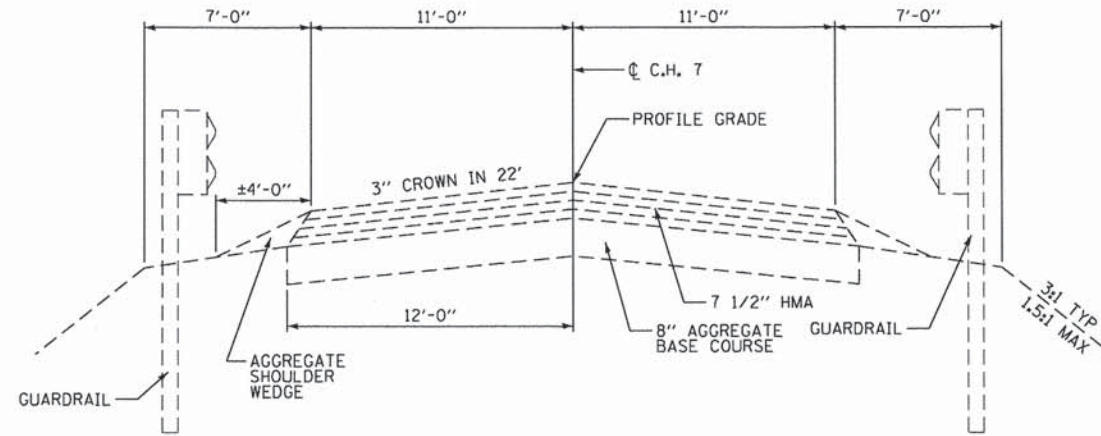
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	4
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0005 ROADWAY	0014 STRUCTURE
• Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	74		74
Δ • LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1	1	
• 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	359	61	298
• X4201400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	196		196
• X4811300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	90	90	
• X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	56		56
Δ • X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25	25.0	
• X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
Z0076600	TRAINEES	HR	1,000		
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HR	1,000		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH			

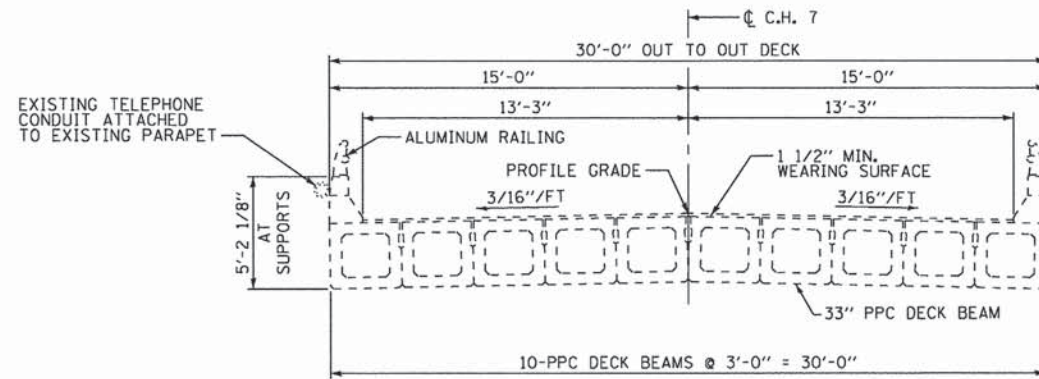
• SPECIAL PROVISION
Δ SPECIALTY ITEMS

FILE NAME = Q:\1315\130817\05\Plans\Current\KCI30817-act-Summer\qdrn



EXISTING FAS 1600 (CH 7/E 500TH STREET) ROADWAY SECTION

STA 177+75.00 TO STA 178+87.75
 STA 187+02.25 TO STA 188+40.00



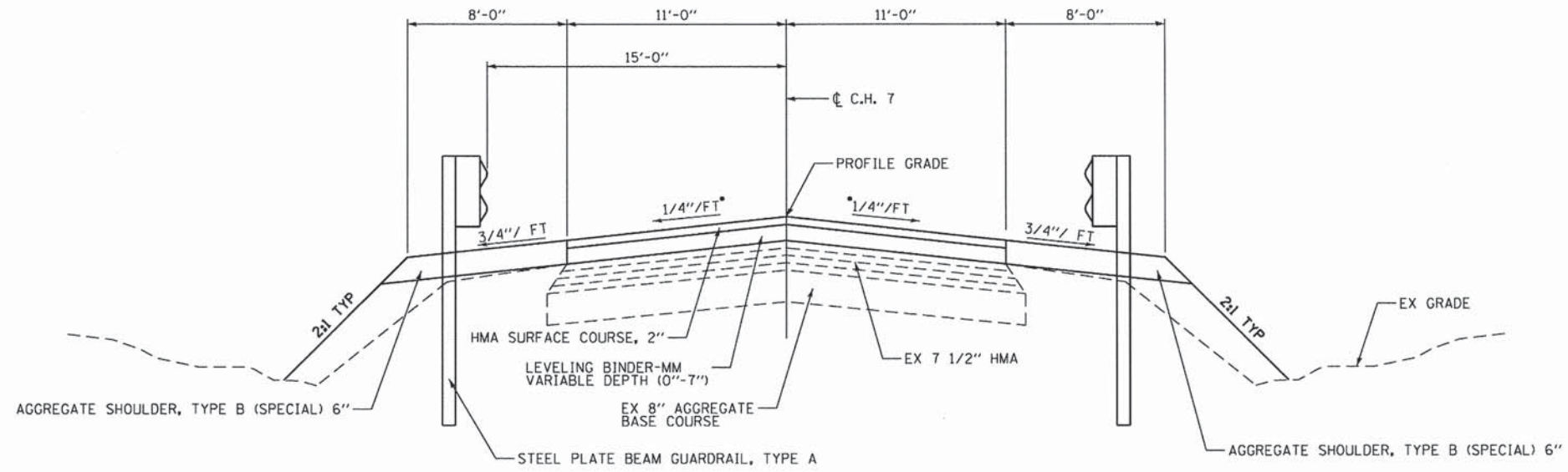
EXISTING FAS 1600 (CH 7/E 500TH STREET) BRIDGE SECTION

STA 178+87.75 TO STA 187+02.25

FILE NAME = Q:\1371\11\138017-05-Plans\Current\138017-05-1-TypicalSections.dgn

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 40:0.0000 ' = 1"	DRAWN -	REVISED -
PLOT DATE = 6/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

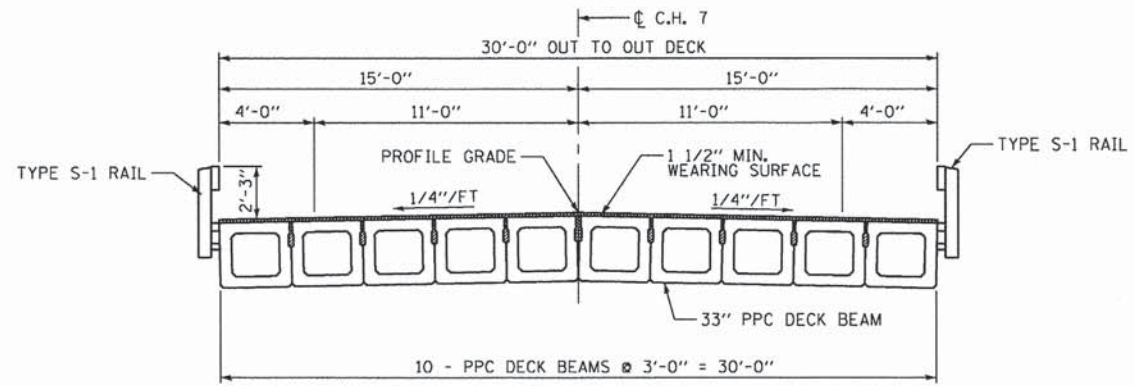
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	6
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				



• - TRANSITION ROADWAY CROSS SLOPE FROM EXISTING TO 1/4"'/ AT BRIDGE APPROACH PAVEMENT

PROPOSED FAS 1600 (CH 7/E 500TH STREET) ROADWAY SECTION

STA 177+75.00 TO STA 178+87.75
STA 187+02.25 TO STA 188+40.00



PROPOSED FAS 1600 (CH 7/E 500TH STREET) BRIDGE SECTION

STA 178+87.75 TO STA 187+02.25

FILE NAME = Q:\13\11\130817\05\Plans\Current\AC130817-shr-TypicalSections.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

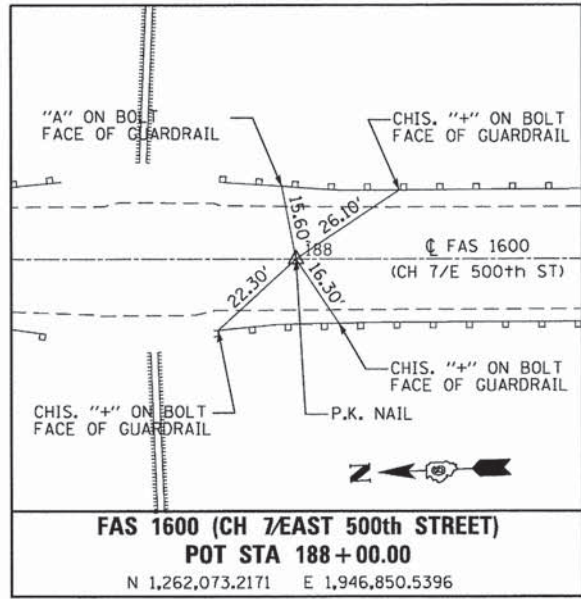
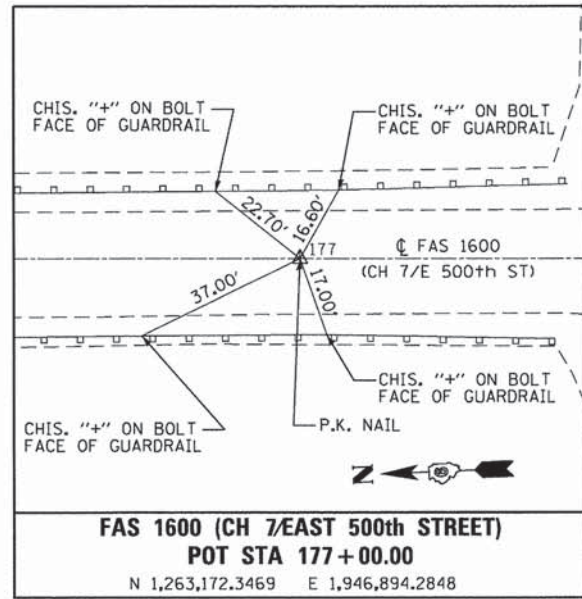
USER NAME = seeb	DESIGNED -	REVISED -
PLOT SCALE = 48:0.0000 '1' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
PROPOSED TYPICAL SECTIONS**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	7
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				



FILE NAME : D:\13\1607\1607\06\Plans\Current\AC130017-ah-4in1Lead.dgn

KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors

USER NAME = sdb	DESIGNED -	REVISED -
PLOT SCALE = 80.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

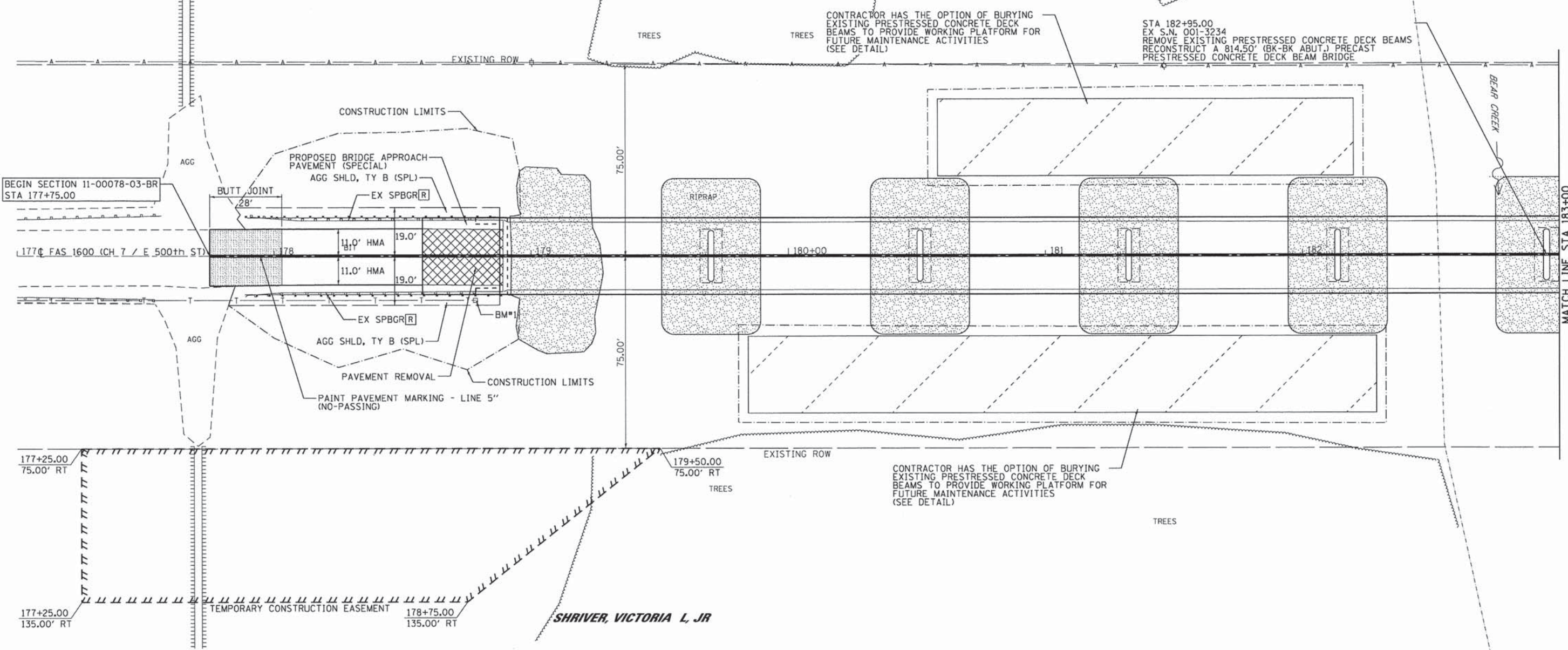
ADAMS COUNTY
HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) HORIZONTAL CONTROL TIES	
SCALE: NONE	STATION: 1 OF 1 SHEETS
TO STA.	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	9
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

TRAFFIC BARRIER TERMINAL, TY 1 (SP) TANGENT
 SPBGR, TY A
 TRAFFIC BARRIER TERMINAL, TY 5A
 GUARDRAIL LAYOUT RT & LT

PARKER, ROBERT F. & ROSEMARY



CONTRACTOR HAS THE OPTION OF BURYING EXISTING PRESTRESSED CONCRETE DECK BEAMS TO PROVIDE WORKING PLATFORM FOR FUTURE MAINTENANCE ACTIVITIES (SEE DETAIL)

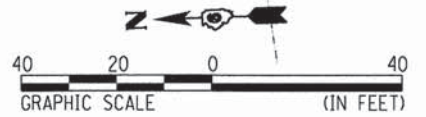
STA 182+95.00
 EX S.N. 001-3234
 REMOVE EXISTING PRESTRESSED CONCRETE DECK BEAMS
 RECONSTRUCT A 814.50' (BK-BK ABUT.) PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE

CONTRACTOR HAS THE OPTION OF BURYING EXISTING PRESTRESSED CONCRETE DECK BEAMS TO PROVIDE WORKING PLATFORM FOR FUTURE MAINTENANCE ACTIVITIES (SEE DETAIL)

SHRIVER, VICTORIA L, JR

SHRIVER BROS PARTNERSHIP

BENCHMARK #1
 STA 178+78.3 17.3' RT
 R,R. SPIKE IN TELE. POLE N.W. CORNER OF BRIDGE
 ELEV = 500.61



FILE NAME = D:\13\Files\130817\05\Plans\Current\AC130817-plt-plan01.dgn

KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 48,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

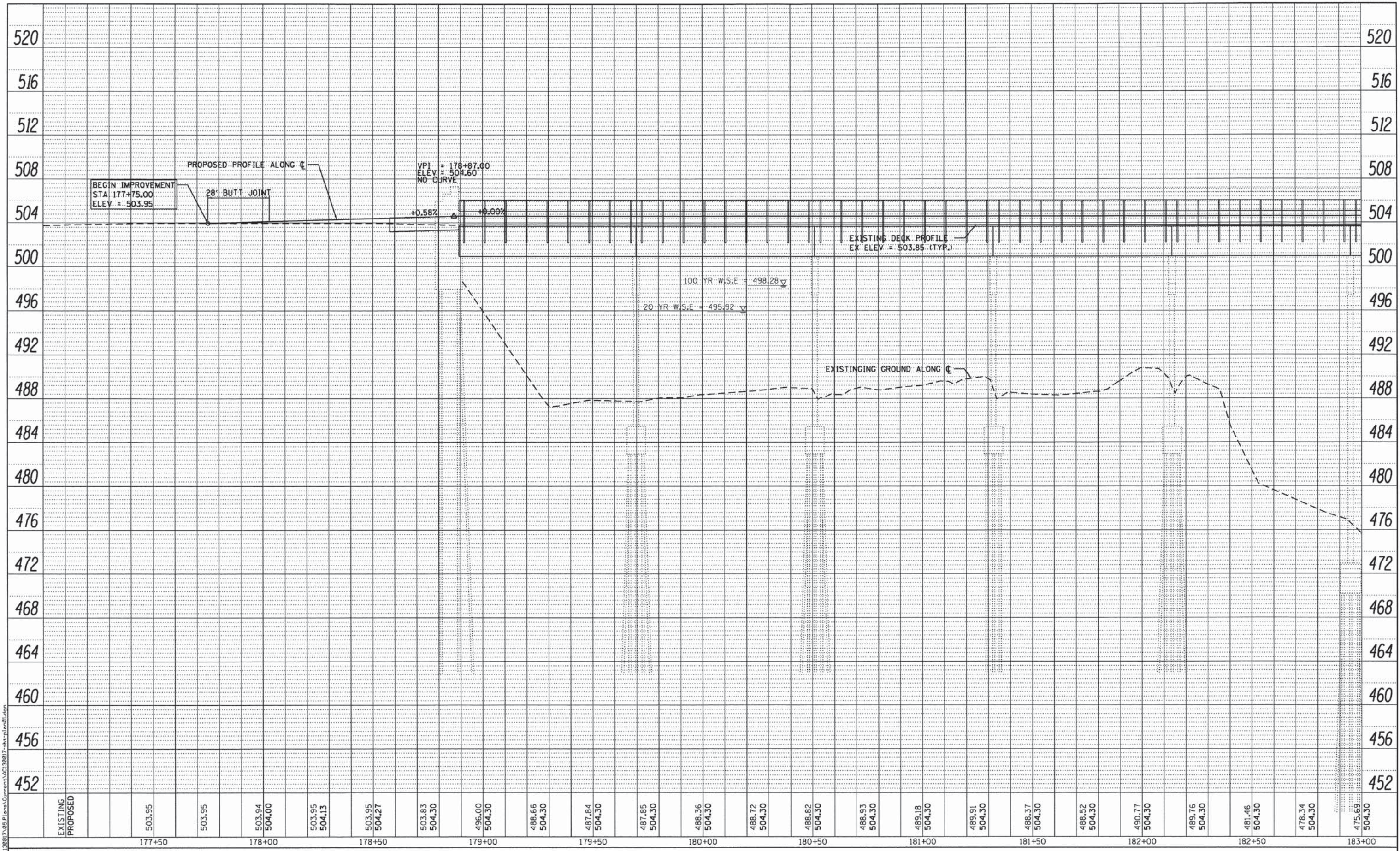
**ADAMS COUNTY
 HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7 / E 500th STREET)
 PLAN VIEW**
 SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. 177+00 TO STA. 183+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	10
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NOTE BOOK NO.		
	FILE NAME		



FILE NAME = D:\1371\1371\13007\08\Plans\Current\13007-1371-plan01.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb
PLOT SCALE = 48.0000' / 1" =
PLOT DATE = 8/14/2014

DESIGNED -	SEB	REVISED -	
DRAWN -	SEB	REVISED -	
CHECKED -		REVISED -	
DATE -		REVISED -	

ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7 / E 500th STREET) PROFILE VIEW
SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 177+00 TO STA. 183+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	11
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

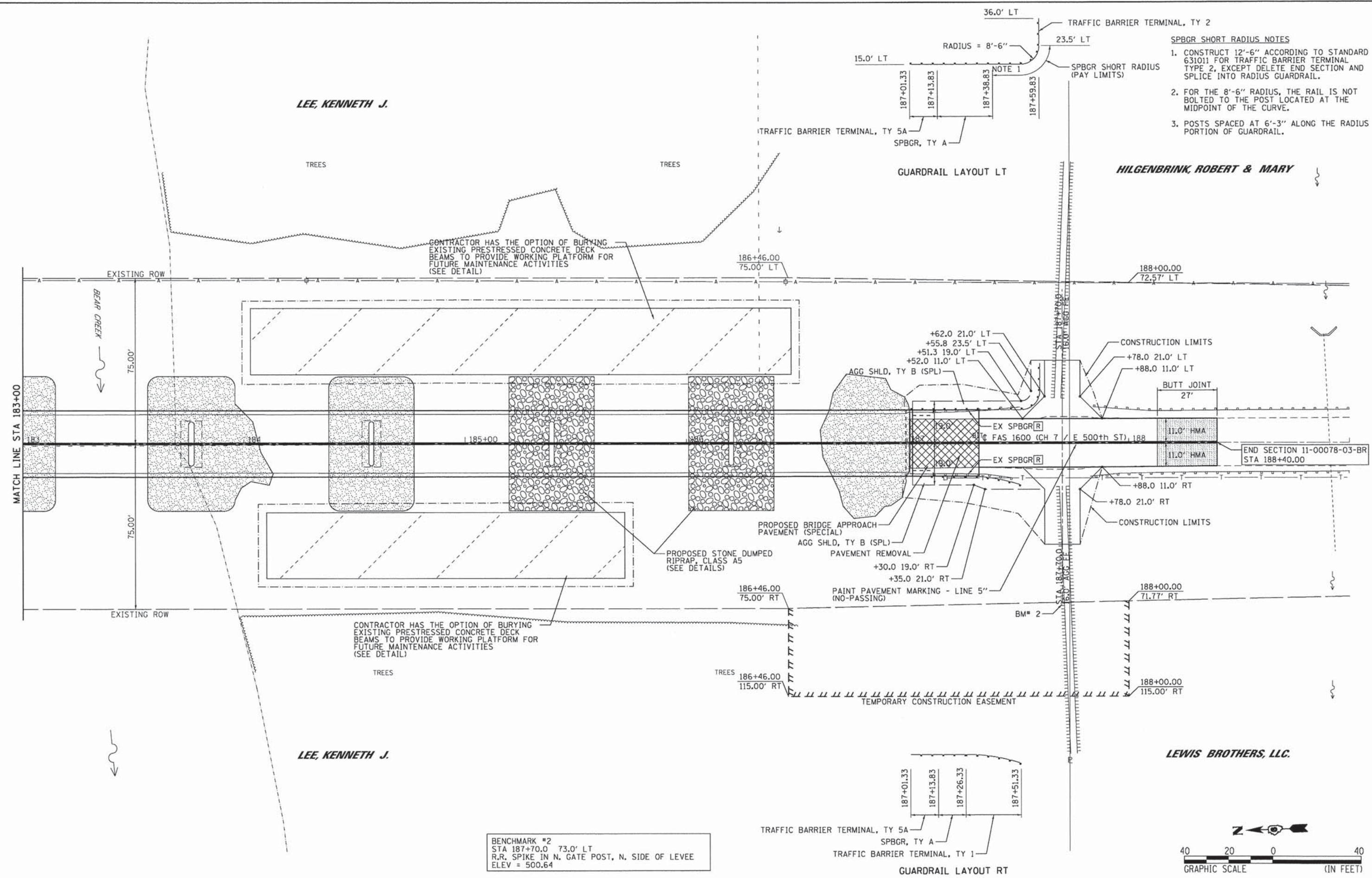
FILE NAME = D:\131\105\138817\05\Plan\Current\AC138817-mht-plan-02.dgn

LEE, KENNETH J.

HILGENBRINK, ROBERT & MARY

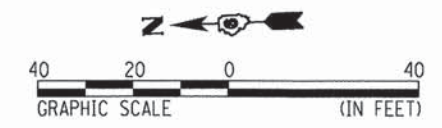
LEE, KENNETH J.

LEWIS BROTHERS, LLC.



- SPBGR SHORT RADIUS NOTES**
1. CONSTRUCT 12'-6" ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
 2. FOR THE 8'-6" RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.
 3. POSTS SPACED AT 6'-3" ALONG THE RADIUS PORTION OF GUARDRAIL.

BENCHMARK #2
 STA 187+70.0 73.0' LT
 R.R. SPIKE IN N. GATE POST, N. SIDE OF LEVEE
 ELEV = 500.64



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors

USER NAME = aeb	DESIGNED -	REVISED -
PLT SCALE = 48,8888' / in.	DRAWN -	REVISED -
PLT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

ADAMS COUNTY HIGHWAY DEPARTMENT

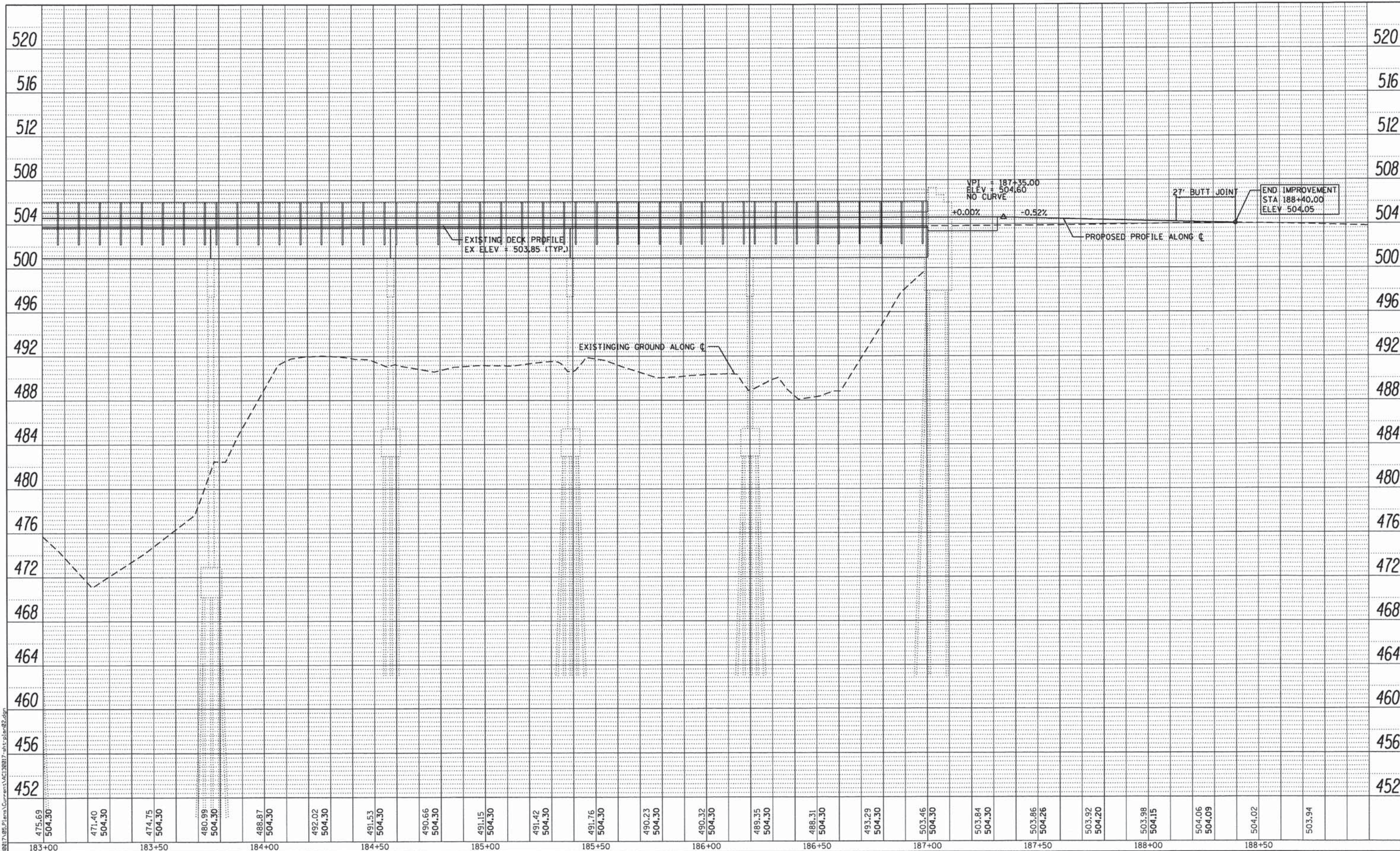
FAS 1600 (CH 7 / E 500th STREET) PLAN VIEW

SCALE: 1"=20' SHEET 3 OF 4 SHEETS STA. 183+00 TO STA. 189+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	12
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATIONS CHKD		
	NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATIONS CHKD		
	NO.		
	FILE NAME		



FILE NAME = D:\1371\183007\05\Plan\Current\183007-plt-plm-92.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

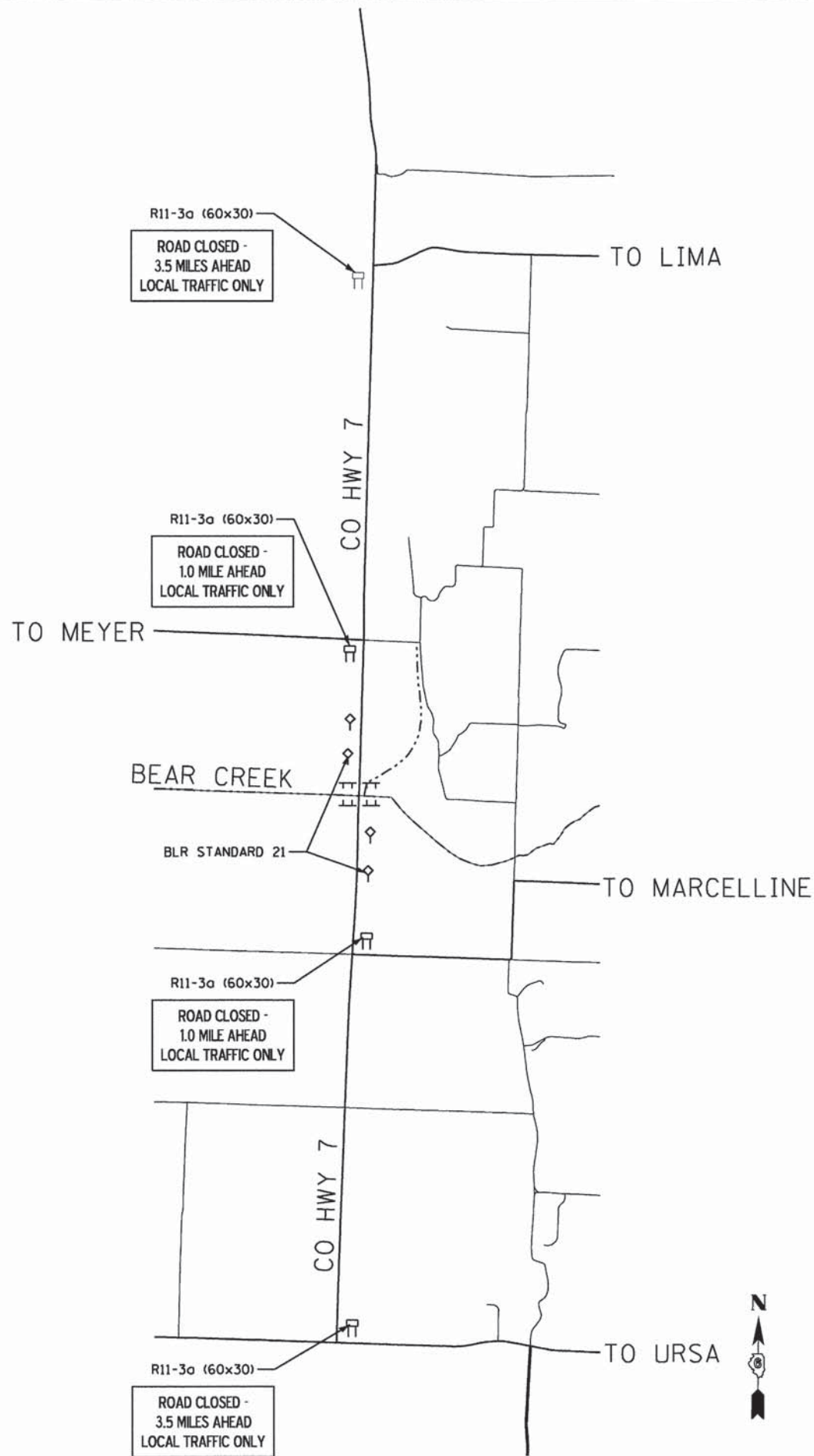
USER NAME = sob
 PLOT SCALE = 48.0000" / 1"
 PLOT DATE = 8/14/2014

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7 / E 500th STREET) PROFILE VIEW
 SCALE: SHEET 4 OF 4 SHEETS STA. 183+00 TO STA. 189+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 13
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

- 1) FLAGS SHALL BE USED AT EACH DETOUR SIGN LOCATION.
- 2) ROAD CLOSURE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD BLR-21 ALONG WITH THE DETAILS AND SPECIAL PROVISIONS.
- 3) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.
- 4) THE LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 5) ALL SIGNS SHALL BE REMOVED WHEN NOT REQUIRED FOR FUTURE USE.
- 6) THIS TRAFFIC CONTROL AND PROTECTION SHALL BE PAID FOR ACCORDING TO THE CONTRACT UNIT COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- 7) THE EXACT LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE APPROVED BY THE ENGINEER.
- 8) PRIOR TO THE CLOSURE OF CH 7 /EAST 500th STREET, THE CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY SERVICES, ADAMS COUNTY ENGINEER, THE TOWNSHIP ROAD COMMISSIONER, US POSTAL SERVICE, AND COMMUNITY UNIT SCHOOL DISTRICT NO. 4.

ADAMS COUNTY ENGINEER:

MR. JAMES R. FRANKENHOFF, P.E.
101 NORTH 54TH STREET
QUINCY, IL 62305-3797

FAX: 217-223-0614
PHONE: 217-223-9418
E-MAIL: ACHD ADAMS.NET

URSA TOWNSHIP COMMISSIONER:

MR. TERRY HOMAN
423 WEST MAPLE STREET
URSA, IL 62376

PHONE: 217-964-2555

LIMA TOWNSHIP COMMISSIONER:

MR. JEFF MILLER
2567 EAST 603RD LANE
URSA, IL 62376

PHONE: 217-964-2389

COMMUNITY UNIT SCHOOL DISTRICT NO. 4:

SUPERINTENDENT
453 WEST COLLINS STREET
MENDON, IL 62351

PHONE: 217-936-2111

FILE NAME = Q:\13f\Jan13\0817\05\Plans\Current\AC130817-ah-Detour.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = sob	DESIGNED -	REVISED -
PLOT SCALE = 2500.000' / 1in.	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/E 500th STREET)
TRAFFIC CONTROL PLAN**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	14
			CONTRACT NO. 93624	
ILLINOIS FED. AID PROJECT				

Bench Mark: Railroad spike in north gate post, north side of west levee, south side of bridge. Elev. 500.64

Existing Structure: Structure No. 001-3234 was originally built in 1969 on F.A.S. Rte. 1600 (C.H. 7) in Adams County. In 2003 riprap was added to the existing piers and abutments under Section 02-00078-01-BR. The structure consists of 10 - 33" PPC Deck beam spans and hot-mix asphalt wearing surface on solid wall concrete piers and stub abutments. The back to back abutment length is 814'-6" and the out to out bridge width is 30'-0". The existing PPC deck beams will be removed and replaced.

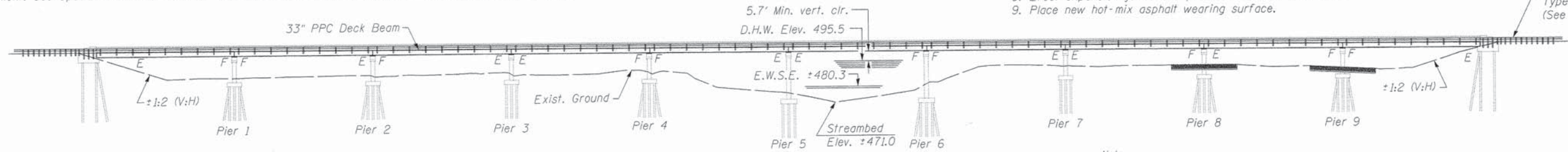
The roadway will be closed during construction.

The existing steel support beams in span 8 and the traffic control devices in span 7 shall remain property of Adams County Highway Department. See Special Provisions. Contact Jim Frankenhoff at (217) 223-0614 to arrange a pick-up time.

SCOPE OF WORK

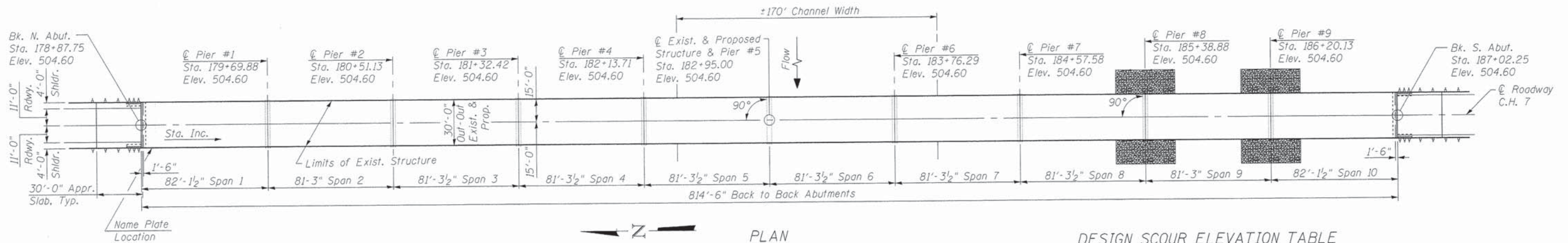
- Existing deck beams, hot-mix asphalt wearing surface, railing and parapets shall be removed.
- Repair Pier 7 and remove concrete from abutments.
- Place concrete at piers and abutment caps.
- Erect new deck beams and dowel into position.
- Grout shear keys.
- Erect expansion joints and pour blockouts at piers.
- Pour approach pavement.
- Erect expansion joints and pour blockouts at abutments.
- Place new hot-mix asphalt wearing surface.

Traffic Barrier Terminal, Type 5A, Typ. (See Special Provisions)



ELEVATION

Note: Existing riprap and slopewalls at the abutments and riprap at the piers will be reused except at Piers 8 & 9. See Roadway Plans for Riprap Scour Repairs at Piers 8 & 9.



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	Pier 9	S. Abut.
	497.64	483.33	483.64	483.61	484.11	472.36	476.97	486.68	486.20	484.53	497.64

LOADING HL-93 (NEW CONSTRUCTION)
Allow 25#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

New Construction:
2012 AASHTO LRFD Bridge Design Specifications 6th Edition

Existing Substructure:
2002 AASHTO Standard Specifications

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.12g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.18g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS (New Construction)
 f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS (New Construction)

f'_c = 6,000 psi
 f'_{ci} = 5,000 psi
 f_{pu} = 270,000 psi ($\frac{1}{2}$ " ϕ low lax. strands)
 f_{pbt} = 201,960 psi ($\frac{1}{2}$ " ϕ low lax. strands)

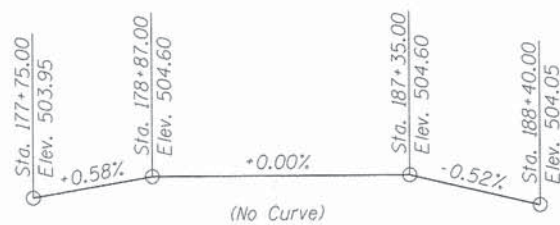
FIELD UNITS (Existing Construction)

f'_c = 3,500 psi
 f'_s = 40,000 psi (Reinforcement)

WATERWAY INFORMATION

Drainage Area = 408.8 Sq. Mi. Exist. Overtopping Elev. 503.94 @ Sta. 177+90
Prop. Overtopping Elev. 503.94 @ Sta. 177+90

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Scour Design	10	16,500	28,114	28,114	494.3	0.44	0.44	494.73	494.73
Design	20	20,400	32,667	32,629	495.5	0.45	0.44	495.93	495.92
	50	25,500	37,915	37,877	496.9	0.45	0.44	497.30	497.29
Base	100	29,600	41,715	41,677	497.8	0.45	0.44	498.29	498.28
Overtop Exist.	-	-	-	-	-	-	-	-	-
Overtop Prop.	-	-	-	-	-	-	-	-	-
Max. Calc.	500	39,500	48,242	48,125	499.9	0.04	0.01	499.98	499.95

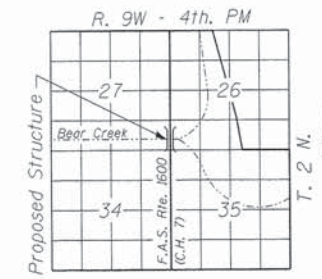


PROFILE GRADE
(Along ϕ Roadway F.A.S. 1600)



Alan D. Lukens
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/2014

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications for Highway Bridges".



LOCATION SKETCH

GENERAL PLAN
F.A.S. 1600 / C.H. 7 OVER BEAR CREEK
SECTION 11-00078-03-BR
ADAMS COUNTY
STATION 182+95.00
STRUCTURE NO. 001-3234

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

188 North 2nd Street, Jersey, IL Ph: (312) 222-3083 Fax: (312) 222-3083
1508 Park Grand Road, Yorkville, IL Ph: (618) 222-4882 Fax: (618) 222-4882
608 N. 4th Street, Suite 100, Burlington, IL Ph: (618) 752-3085 Fax: (618) 752-3085
141 North Prairie Street, Galena, IL Ph: (815) 342-4842 Fax: (815) 342-3788

Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738

FILE NAME =	USER NAME = bgj	DESIGNED - RJP	REVISED -
D:\13files\130017\05.Plans\Current\GPE & Notes.dgn		CHECKED - ADL	REVISED -
		DRAWN -	REVISED -
		CHECKED - ADL	REVISED -

DESIGNED - RJP	REVISED -
CHECKED - ADL	REVISED -
DRAWN -	REVISED -
CHECKED - ADL	REVISED -

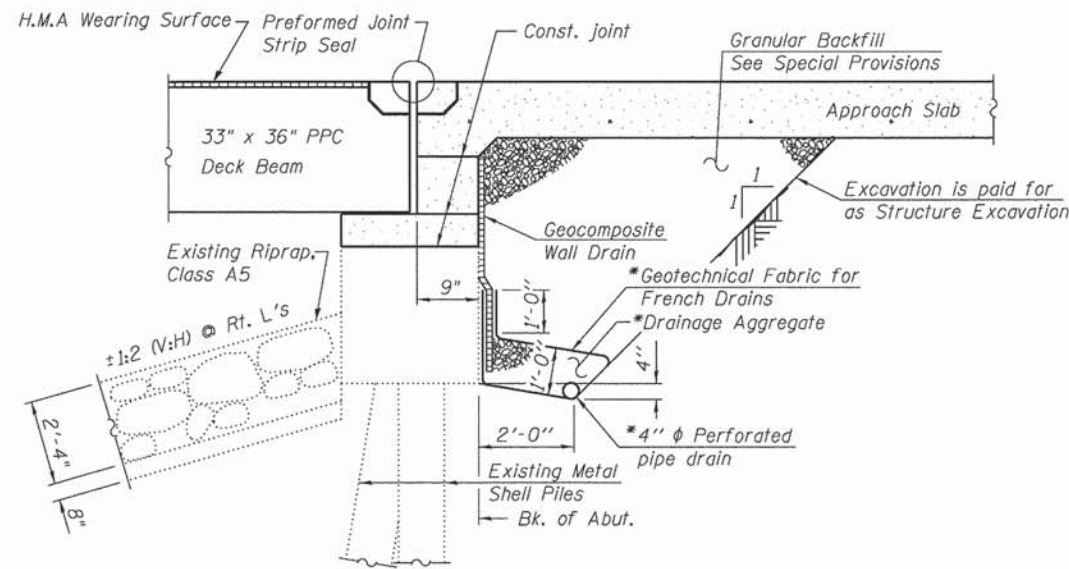
ADAMS COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN
STRUCTURE NO. 001-3234
SHEET NO. 1 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				
Klingner & Associates P.C.				

INDEX OF SHEETS

- 1 General Plan
- 2 General Notes & Details
- 3 Top of North Approach Slab Elevations
- 4 Top of South Approach Slab Elevations
- 5 Superstructure
- 6 Superstructure Details
- 7-8 33" x 36" PPC Deck Beam - Spans 1, 2, 4, 5, 6, 7, 9 & 10
- 9-10 33" x 36" PPC Deck Beam - Spans 3 & 8
- 11 33" x 36" PPC Deck Beam Details
- 12 Bridge Approach Slab Details
- 13 Bridge Joint System - Expansion
- 14 Steel Railing, Type S-1
- 15 North Abutment Removal
- 16 South Abutment Removal
- 17 Pier 7 Repairs
- 18 North Abutment
- 19 South Abutment
- 20 Abutment & Pier Details
- 21 Piers 1, 4, 6 & 9
- 22 Pier 2
- 23 Piers 3, 5 & 7
- 24 Pier 8



SECTION THRU ABUTMENT

*Included in the cost of Pipe Underdrains for Structures, 4".

Note:

All drainage system components shall extend 2'-0" beyond the end of each wingwall, except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601011).

Current Ratings on File for Existing Structure

S.N. 001-3234:

Inventory - HS 0.0 (PPC Deck Beam - Spans 7 & 8)

Operating - HS 0.0 (PPC Deck Beam - Spans 7 & 8)

Live Load Restrictions: Yes

22 Tons - Single Unit Vehicles

29 Tons - 3 or 4 Axle Combination Vehicles

36 Tons - 5 or More Axle Combination Vehicles

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS Loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

BEAR CREEK
RE-BUILT 201_ BY
ADAMS COUNTY
SEC. 11-00078-03-BR
F.A.S. RTE. 1600 STA. 182+95.00
STR. NO. 001-3234 LOADING HL-93

NAME PLATE

See Std. 515001

Note:

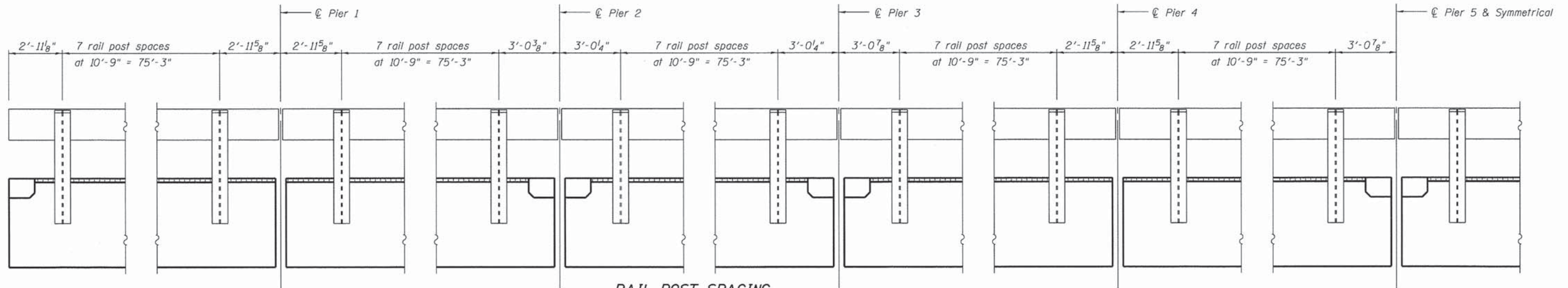
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		56	56
Bridge Approach Pavement (Special)	Sq. Yd.	196		196
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		3.6	3.6
Structure Excavation	Cu. Yd.		56	56
Concrete Structures	Cu. Yd.		24.8	24.8
Concrete Superstructure	Cu. Yd.	9.8		9.8
Protective Coat	Sq. Yd.	196		196
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	24,331.3		24,331.3
Reinforcement Bars, Epoxy Coated	Pound	2,100	3,960	6,060
Steel Railing, Type S1	Foot	1,625		1,625
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	210		210
Waterproofing Membrane System	Sq. Yd.	2,671		2,671
Concrete Sealer	Sq. Ft.		1,448	1,448
Geocomposite Wall Drain	Sq. Yd.		34	34
Asbestos Bearing Pad Removal	Each	200		200
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.		28	28
Pipe Underdrains for Structures, 4"	Foot		74	74
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	318		318

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- 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.
- Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- Concrete Sealer shall be applied to the designated areas of all abutments and piers.
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- Removal of Existing Superstructures includes removal of the existing PPC deck beams, existing hot-mix asphalt wearing surface, concrete parapets and aluminum handrail.
- The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity, especially the second beam from the east end in Spans 7 & 8. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure. An Existing Structure Information Package is available upon request as noted in the special provisions. Cost included with Removal of Existing Superstructures.



RAIL POST SPACING
(Looking East)

FILE NAME =	USER NAME = seeb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	GENERAL NOTES & DETAILS STRUCTURE NO. 001-3234	F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 16
Notes.dgn	CHECKED - ADL	REVISED -	CONTRACT NO. 93624							
PLOT SCALE = 8/166667 ' / in.	DRAWN -	REVISED -	ILLINOIS FED. AID PROJECT							
PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -	Klingner & Associates P.C.							

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	178+58.50	-15.00	504.12
A1	178+68.50	-15.00	504.18
A2	178+78.50	-15.00	504.24
S. End North Appr. Slab	178+88.50	-15.00	504.29

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	178+58.50	-11.00	504.20
A1	178+68.50	-11.00	504.26
A2	178+78.50	-11.00	504.32
S. End North Appr. Slab	178+88.50	-11.00	504.37

☉ ROADWAY & PROFILE GRADE

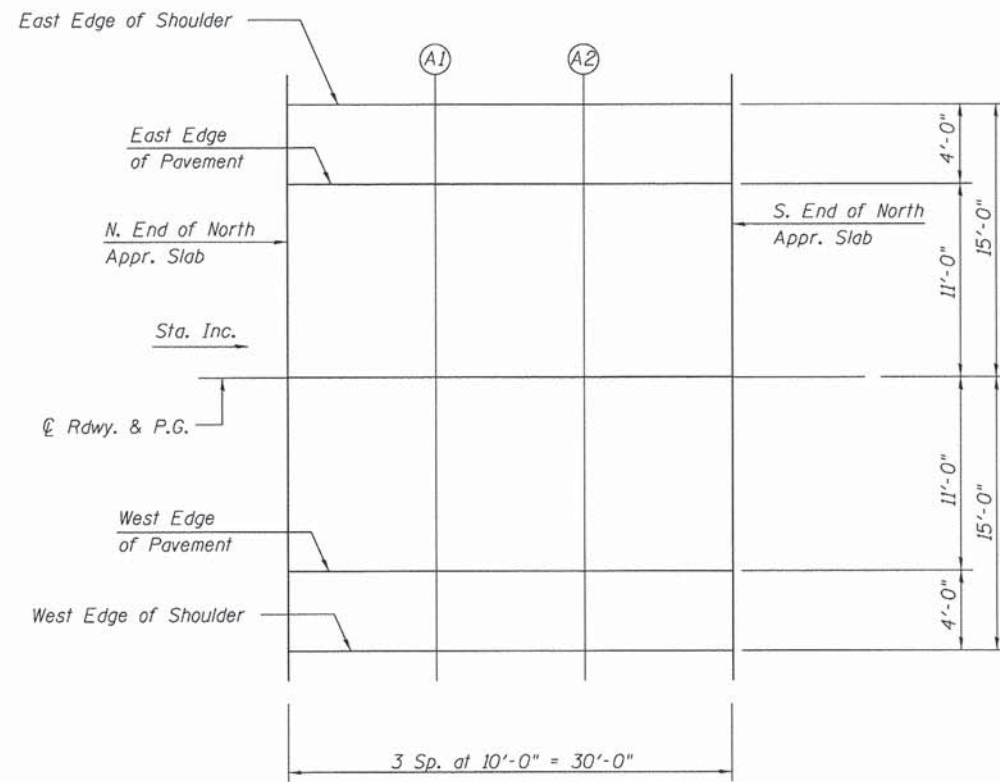
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	178+58.50	0.00	504.43
A1	178+68.50	0.00	504.49
A2	178+78.50	0.00	504.55
S. End North Appr. Slab	178+88.50	0.00	504.60

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	178+58.50	11.00	504.20
A1	178+68.50	11.00	504.26
A2	178+78.50	11.00	504.32
S. End North Appr. Slab	178+88.50	11.00	504.37

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	178+58.50	15.00	504.12
A1	178+68.50	15.00	504.18
A2	178+78.50	15.00	504.24
S. End North Appr. Slab	178+88.50	15.00	504.29



PLAN

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	187+01.50	-15.00	504.29
A3	187+11.50	-15.00	504.29
A4	187+21.50	-15.00	504.29
S. End South Appr. Slab	187+31.50	-15.00	504.29

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	187+01.50	-11.00	504.37
A3	187+11.50	-11.00	504.37
A4	187+21.50	-11.00	504.37
S. End South Appr. Slab	187+31.50	-11.00	504.37

☉ ROADWAY & PROFILE GRADE

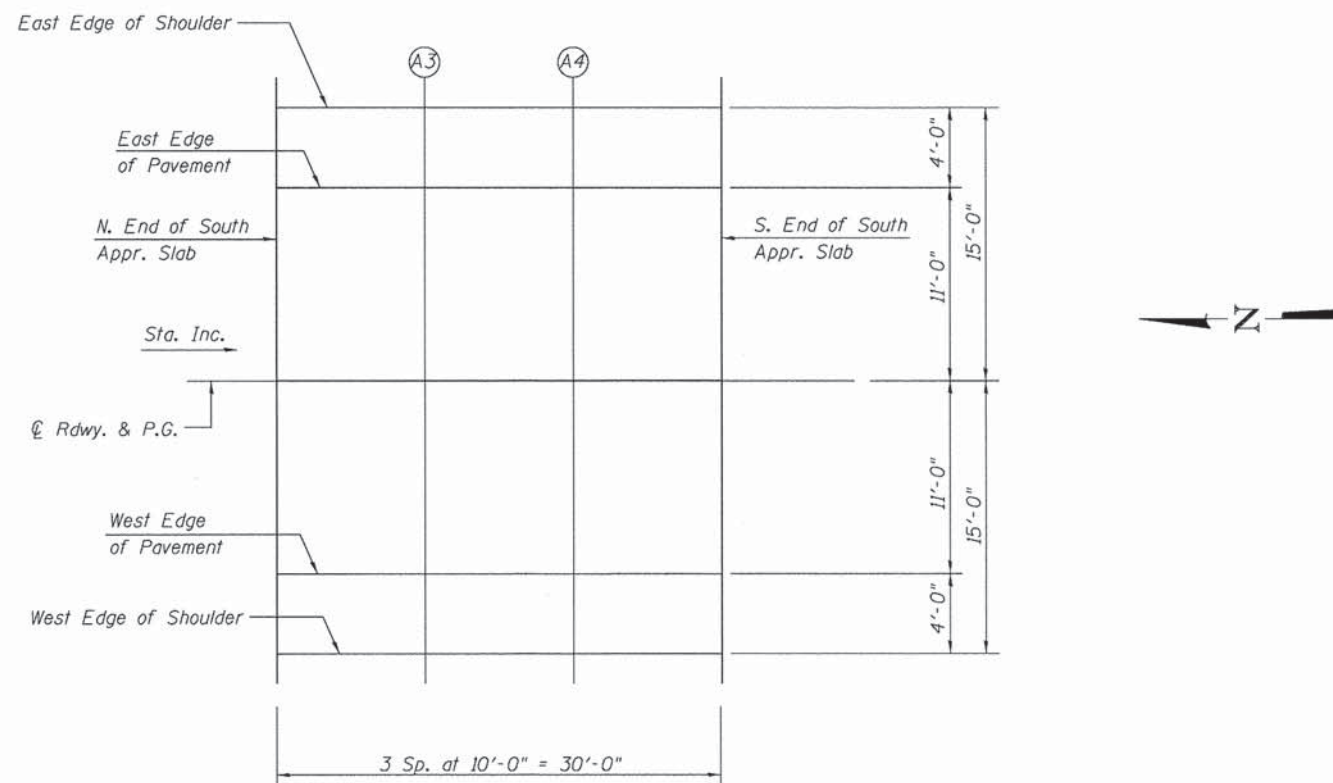
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	187+01.50	0.00	504.60
A3	187+11.50	0.00	504.60
A4	187+21.50	0.00	504.60
S. End South Appr. Slab	187+31.50	0.00	504.60

WEST EDGE OF PAVEMENT

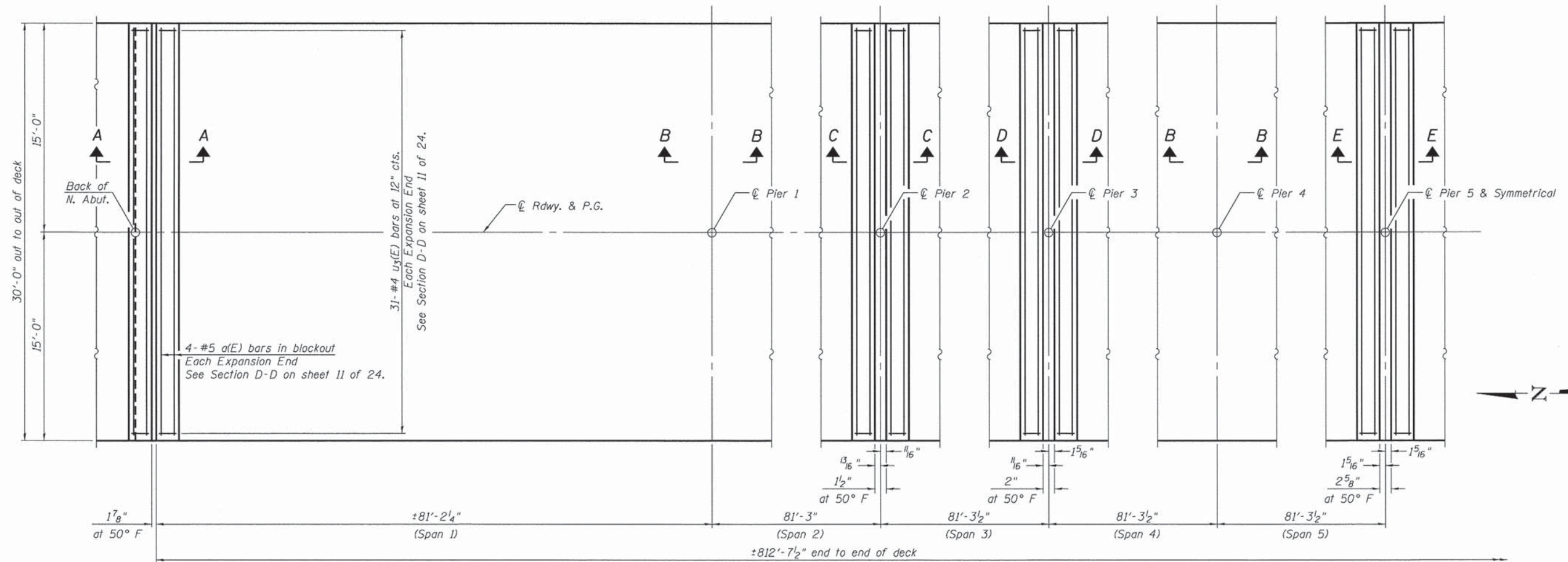
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	187+01.50	11.00	504.37
A3	187+11.50	11.00	504.37
A4	187+21.50	11.00	504.37
S. End South Appr. Slab	187+31.50	11.00	504.37

WEST EDGE OF SHOULDER

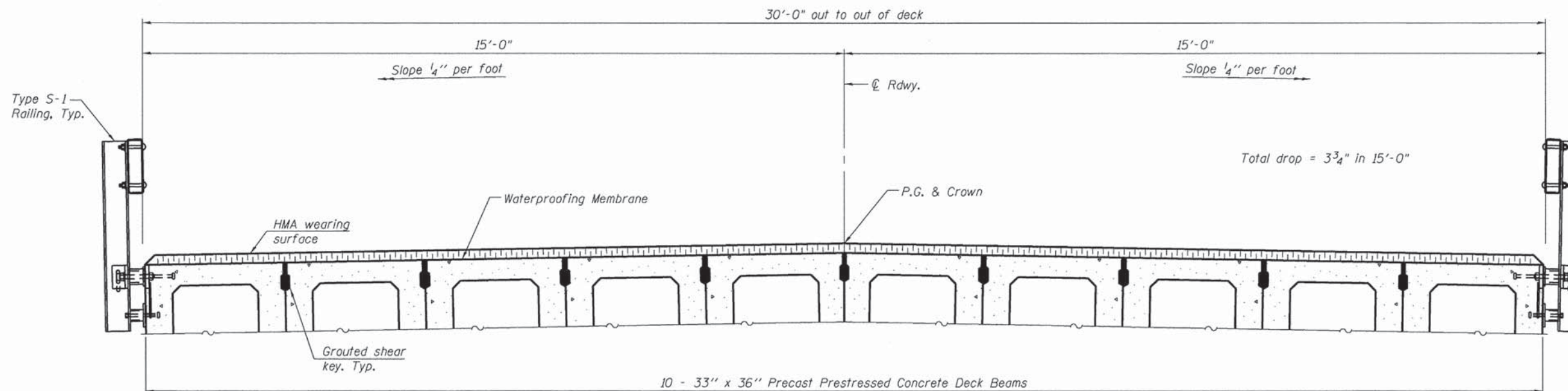
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	187+01.50	15.00	504.29
A3	187+11.50	15.00	504.29
A4	187+21.50	15.00	504.29
S. End South Appr. Slab	187+31.50	15.00	504.29



PLAN



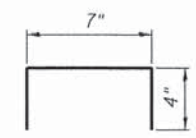
PLAN



CROSS SECTION
(Looking South)

Notes:
For Sections A-A, B-B, C-C, D-D and E-E see sheet 6 of 24.

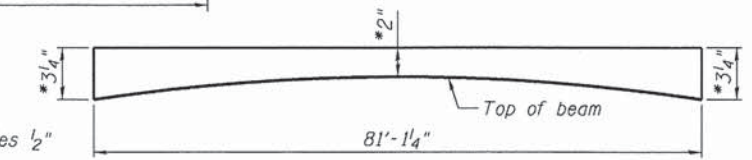
*Anticipated wearing surface thickness includes 1/2" for Waterproofing Membrane System



BAR U3(E)

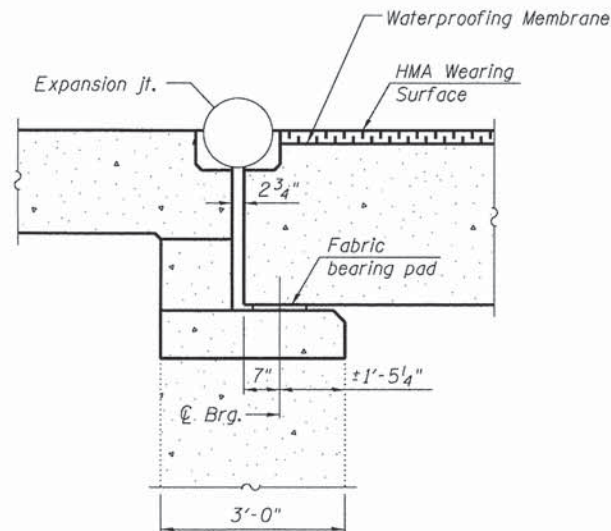
SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	56	#5	29'-8"	—
U3(E)	434	#4	1'-3"	U
Concrete Superstructure			Cu. Yd.	9.8
Reinforcement Bars, Epoxy Coated			Pound	2,100
HMA Surface Course, Mix "C", N50			Ton	318



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

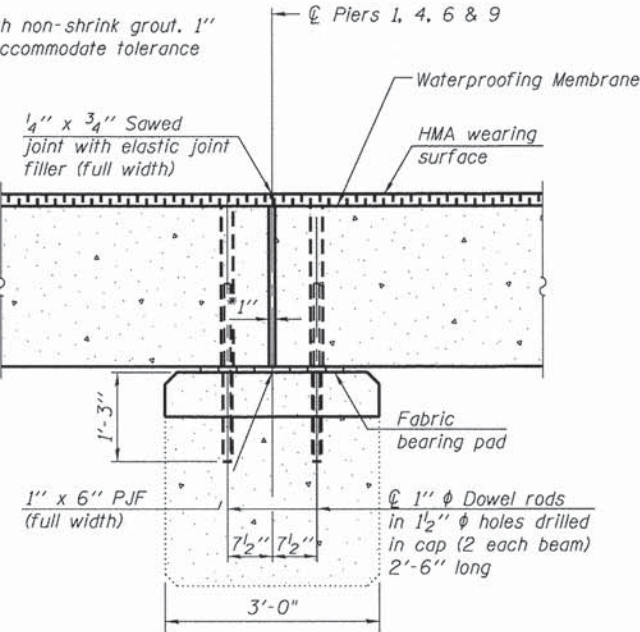
FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE STRUCTURE NO. 001-3234	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Q:\13\files\130017\05\Plans\Current\Supers	structure.dgn	CHECKED - ADL	REVISED -			1600	11-00078-03-BR	ADAMS	60	19
PLOT SCALE = 0.166667 ' / in.		DRAWN -	REVISED -			CONTRACT NO. 93624				
PLOT DATE = 8/14/2014		CHECKED - ADL	REVISED -			ILLINOIS FED. AID PROJECT				



SECTION A-A

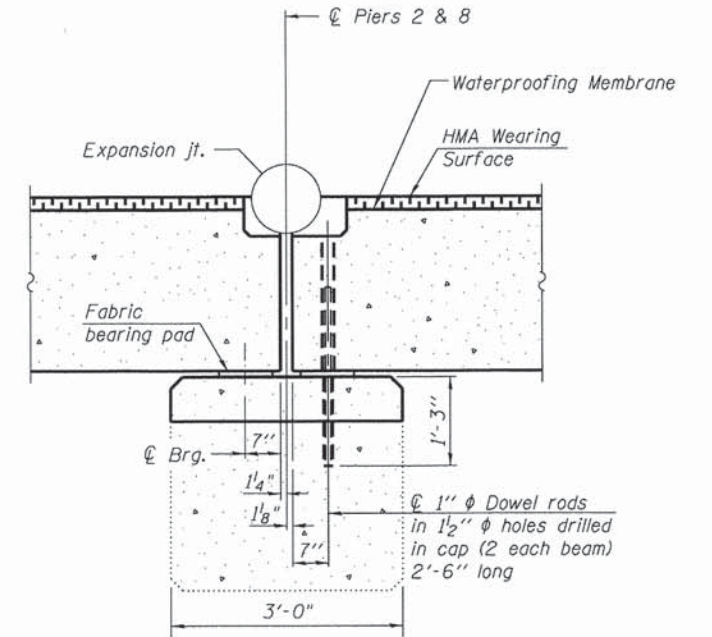
(Looking East)
See sheet 7 of 24 for fabric bearing pad details.

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



SECTION B-B

(Looking East)
See sheet 7 of 24 for fabric bearing pad details.

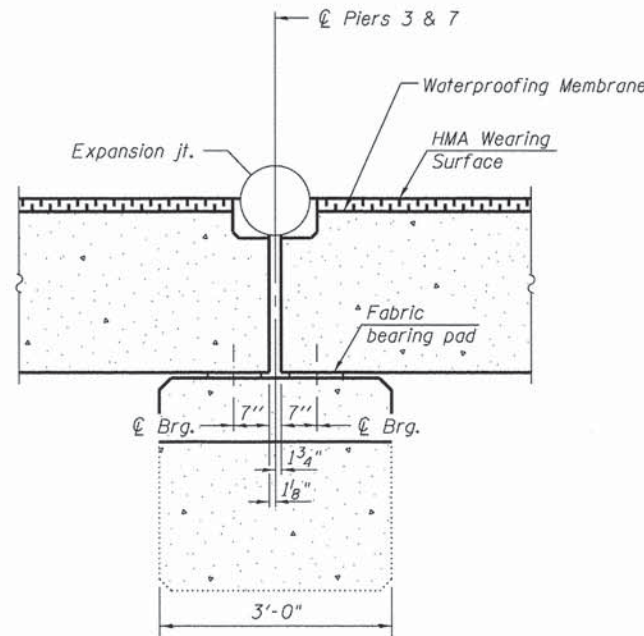


SECTION C-C

(Looking East)
See sheet 9 of 24 for fabric bearing pad details.
Section for Pier 8 will be same, except opposite hand.

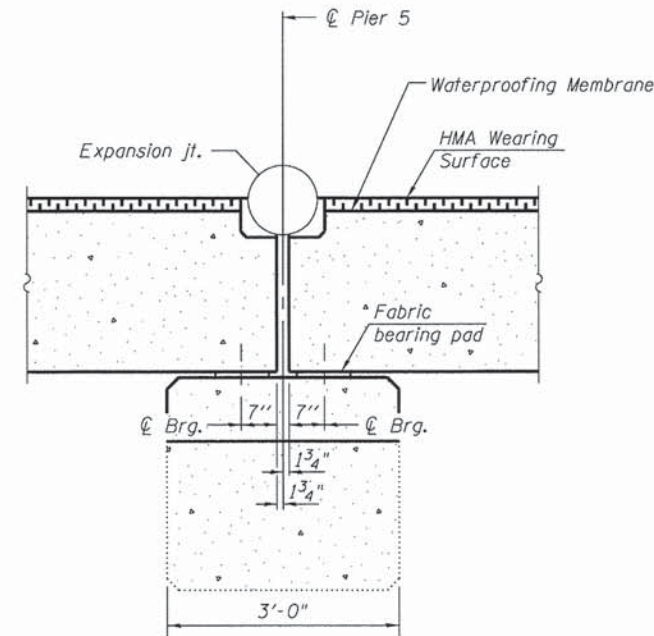
Notes:

- Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (33" Depth).
- Ends of beams shall be aligned at the expansion joints.
- Any lineal variation in the beam lengths shall be placed at the fixed joints.
- After beams have been erected, side retainers shall be installed, holes for dowel rods shall be drilled into substructure and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.
- Erect expansion joints and pour concrete blockouts after grouting the shear keys.
- Hot-Mix Asphalt Wearing Surface to be placed after pouring the concrete blockouts.



SECTION D-D

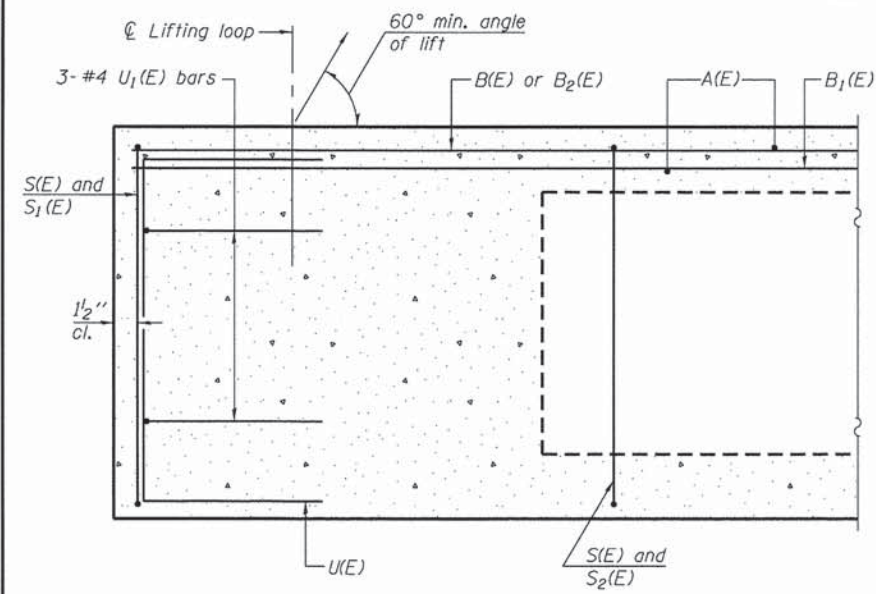
(Looking East)
See sheet 9 of 24 for fabric bearing pad details.
Section for Pier 7 will be same, except opposite hand.



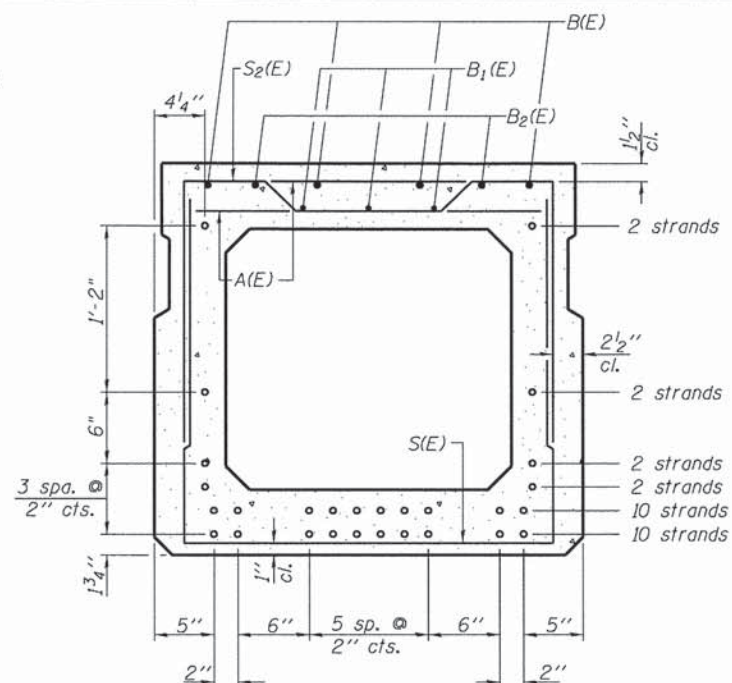
SECTION E-E

(Looking East)
See sheet 7 of 24 for fabric bearing pad details.

FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 001-3234	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Q:\13f\1es\130017\05\P1ens\Current\Supers		CHECKED - ADL	REVISED -			1600	11-00078-03-BR	ADAMS	60	20	
	PLOT SCALE = 0.166667' / in.	DRAWN -	REVISED -			CONTRACT NO. 93624					
	PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -			ILLINOIS FED. AID PROJECT Klingner & Associates P.C.					
SHEET NO. 6 OF 24 SHEETS											

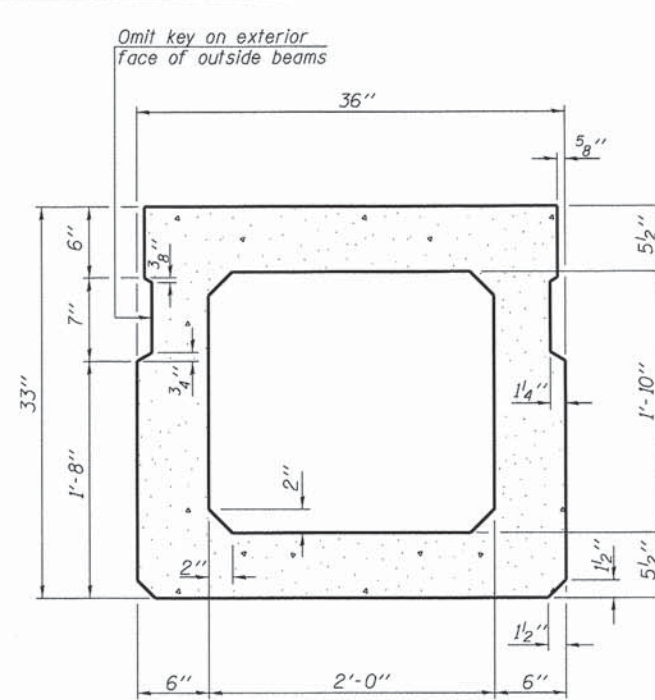


SECTION A-A
(Fixed End)

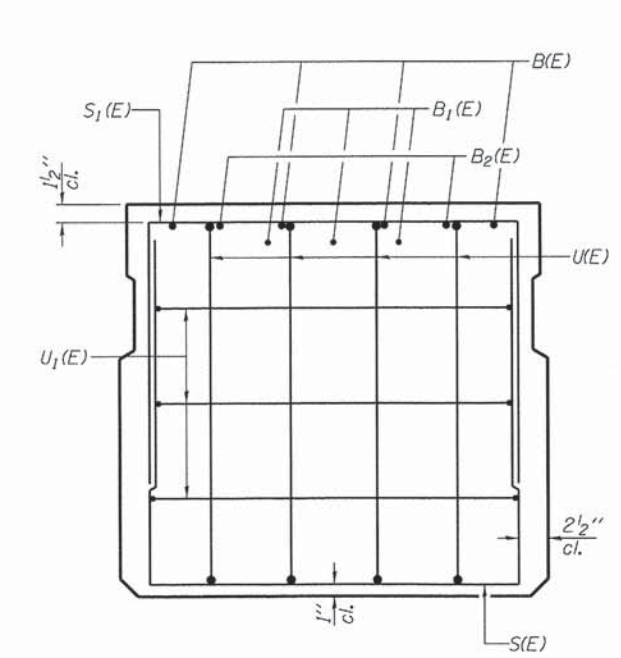


SECTION B-B
(Showing reinforcement and permissible strand locations)

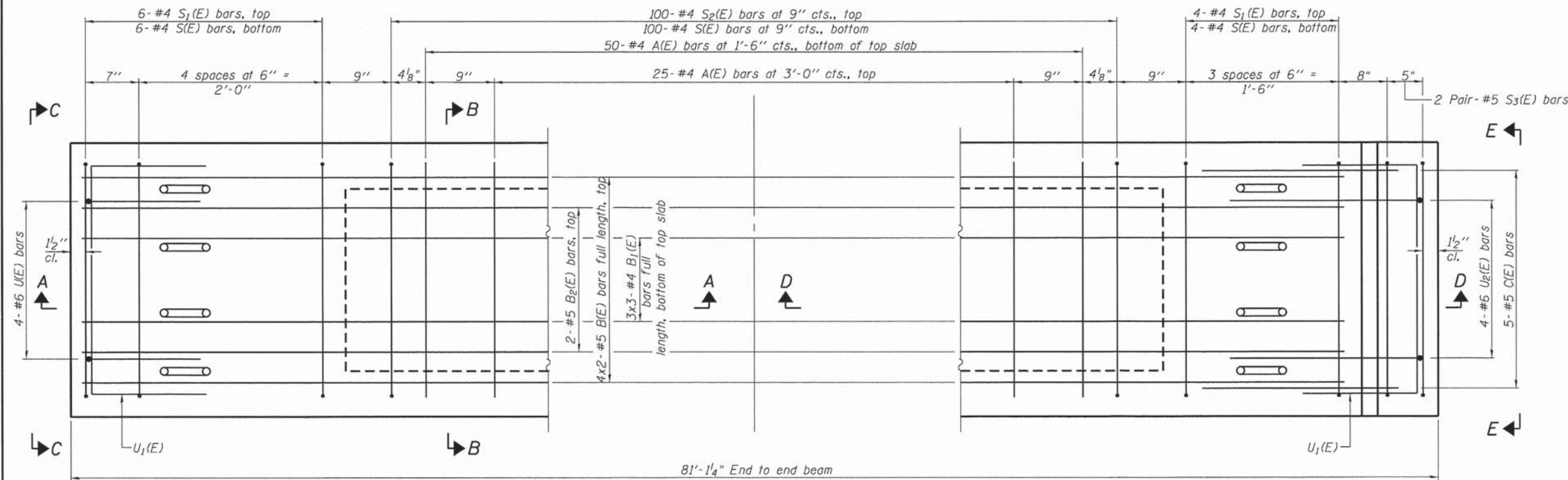
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



SECTION B-B
(Showing dimensions)



VIEW C-C
(Fixed End)



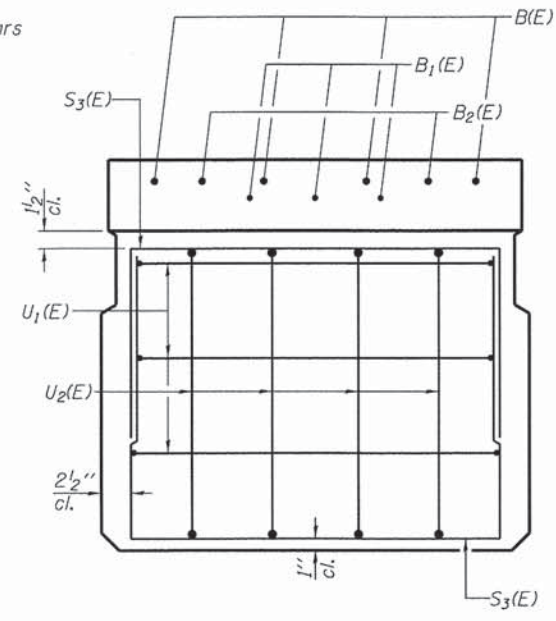
PLAN VIEW

(Fixed End)
North End - Spans 2, 5, 7 & 10
South End - Spans 1, 4, 6 & 9

(Expansion End)
North End - Spans 1, 4, 6 & 9
South End - Spans 2, 5, 7 & 10

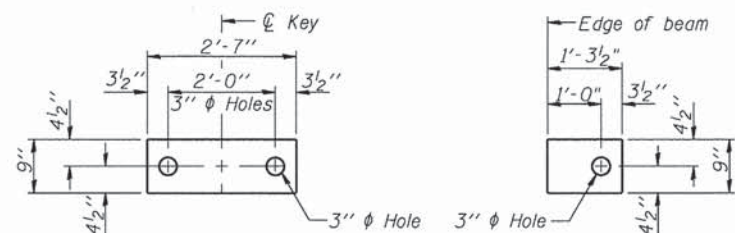
MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
For Section D-D, see sheet 11 of 24.
For bar details, see sheet 11 of 24.



VIEW E-E
(Expansion End)

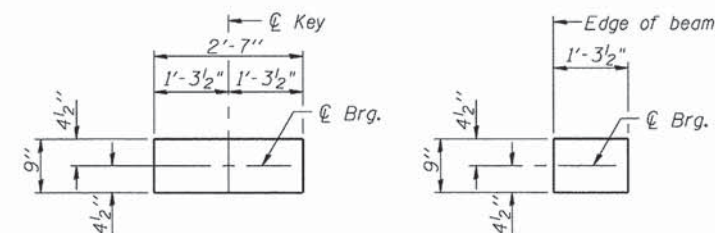
FILE NAME = G:\13files\130817\05.Plans\Current\PPC Deck Beams.dgn	USER NAME = seb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	33" x 36" PPC DECK BEAM - SPANS 1, 2, 4, 5, 6, 7, 9 & 10 STRUCTURE NO. 001-3234	F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 21
PLOT SCALE = 8/166667' / in.	DRAWN -	REVISED -	CONTRACT NO. 93624							
PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -	ILLINOIS FED. AID PROJECT							
			Klingner & Associates P.C.							



FABRIC BEARING PAD (Interior) **FABRIC BEARING PAD** (Exterior)

FIXED ENDS

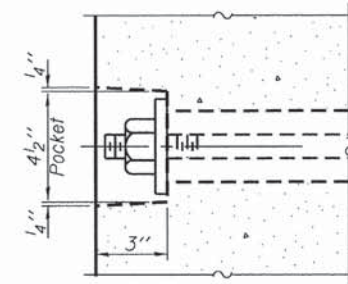
Notes:
All bearing pads shall be 1" thick.



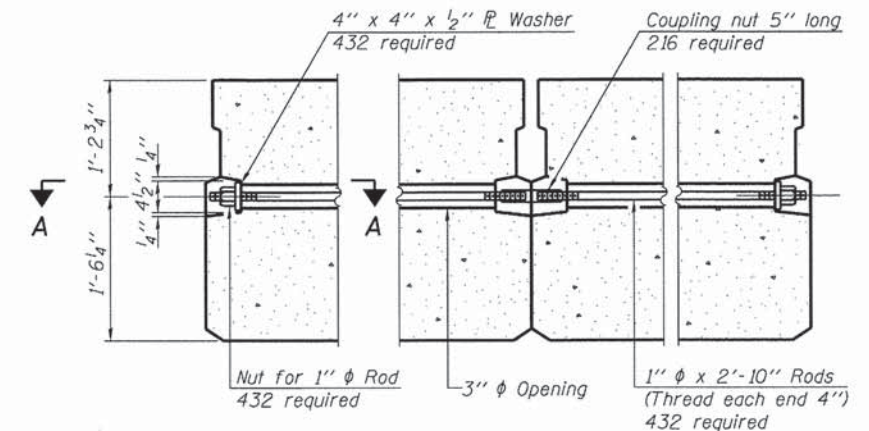
FABRIC BEARING PAD (Interior) **FABRIC BEARING PAD** (Exterior)

EXPANSION ENDS

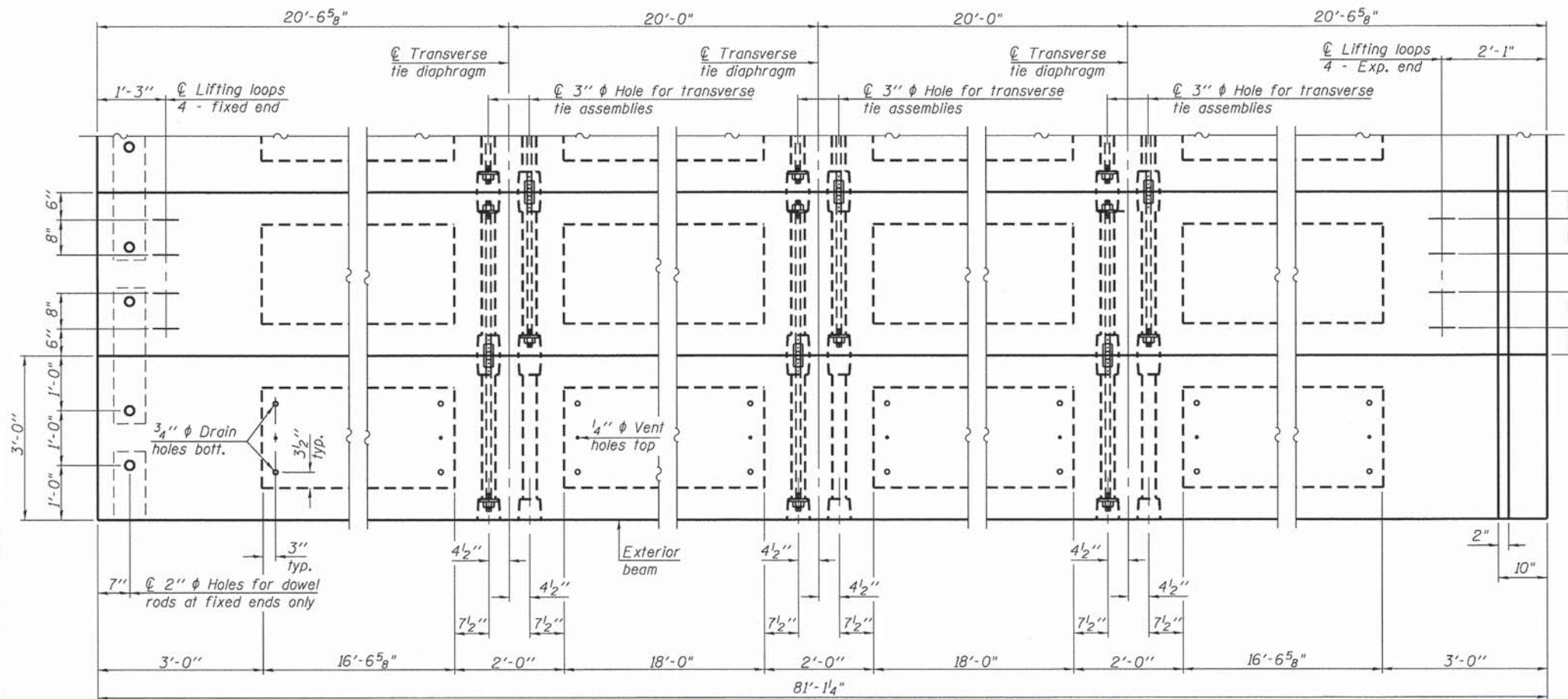
Notes:
All bearing pads shall be 1" thick.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

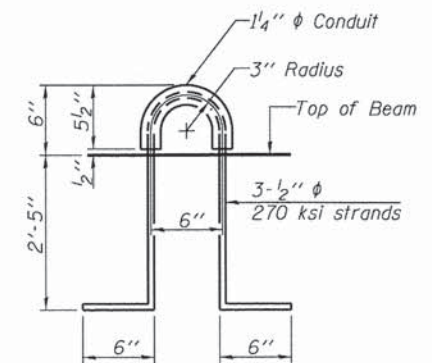


PLAN VIEW

NOTES

Note:
Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

Note:
The loop shall be formed in a manner such that all strands are engaged during lifting. Loops shall be burned off after the beams have been erected.

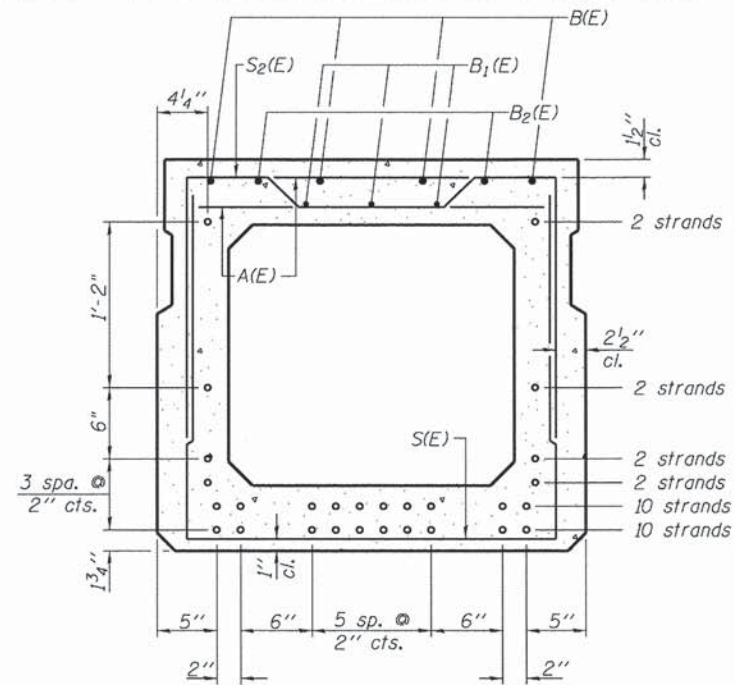
BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	75	#4	2'-7"	—
B(E)	8	#5	41'-9"	—
B ₁ (E)	9	#4	28'-4"	—
B ₂ (E)	4	#5	10'-0"	—
C(E)	5	#5	3'-8"	⌋
S(E)	110	#4	7'-5"	⌋
S ₁ (E)	10	#4	6'-3"	⌋
S ₂ (E)	100	#4	6'-6"	⌋
S ₃ (E)	4	#5	6'-7"	⌋
U(E)	4	#6	5'-0"	⌋
U ₁ (E)	6	#5	5'-0"	⌋
U ₂ (E)	4	#6	6'-2"	⌋

Note: See sheet 7 of 24 for additional details

BILL OF MATERIAL

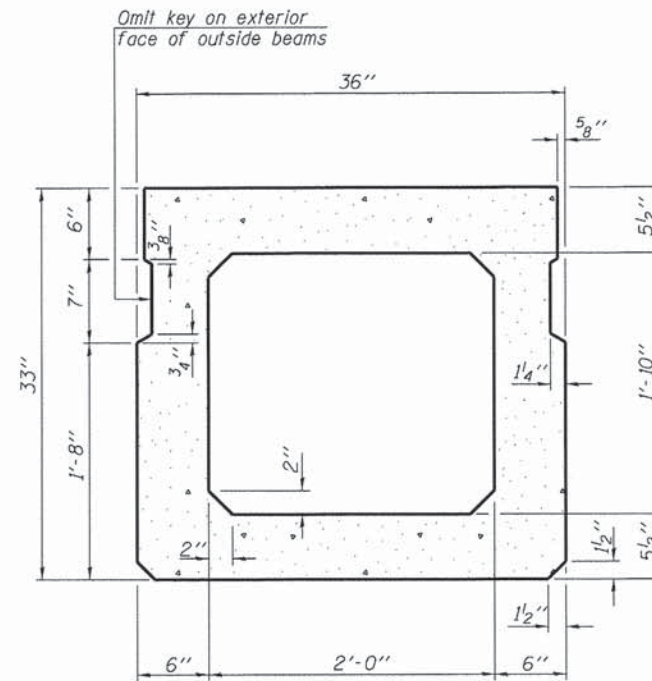
Item	Quantity	Unit
Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	19,465.0
Waterproofing Membrane System	Sq. Yd.	2,141



SECTION B-B

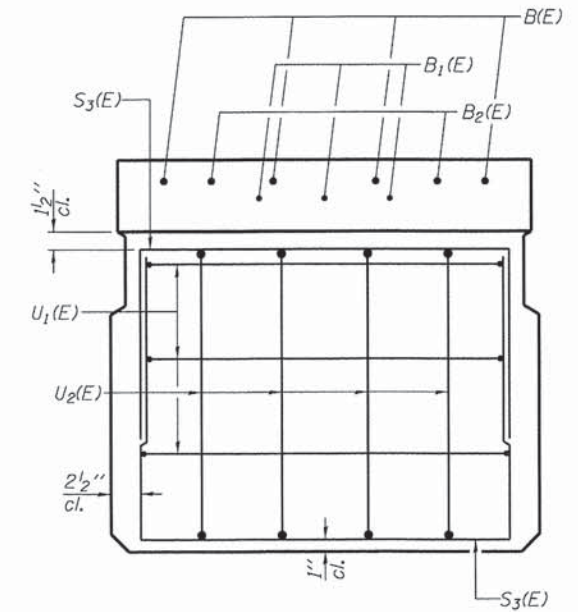
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



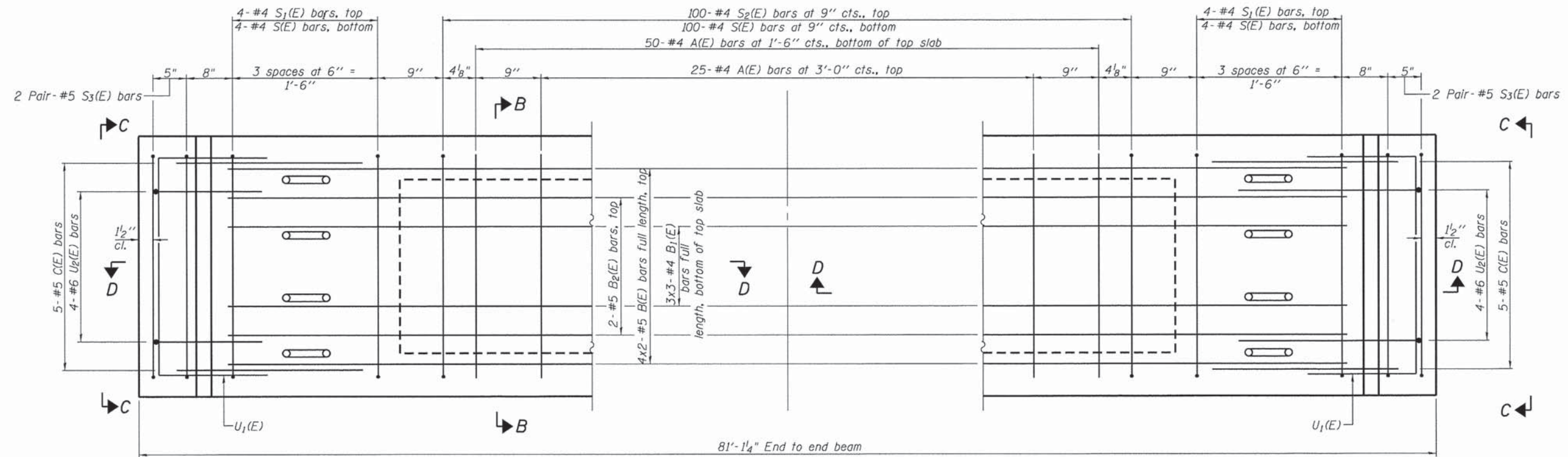
SECTION B-B

(Showing dimensions)



VIEW C-C

(Expansion End)



PLAN VIEW

(Fixed End - With Expansion Blockout)
North End - Span 3, South End - Span 8

(Expansion End)
South End - Span 3, North End - Span 8

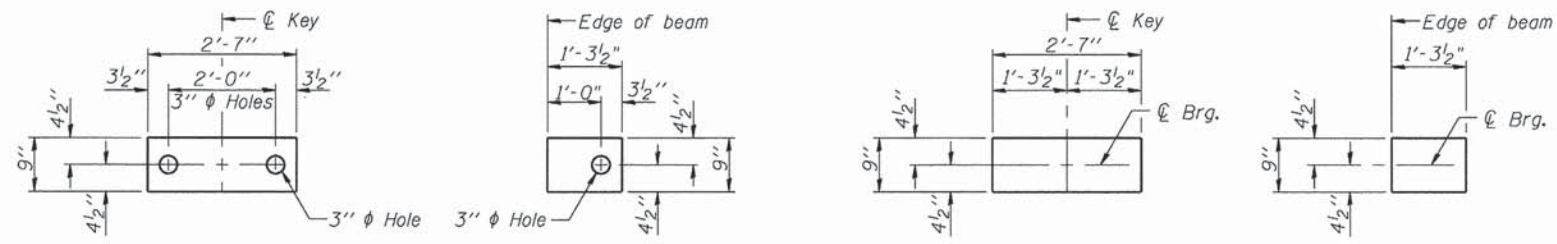
Note: Spacing of S(E) and S₂(E) bars may be adjusted up to 4\"/>

MINIMUM BAR LAP

#4 bar = 2'-0\"/>

#5 bar = 2'-6\"/>

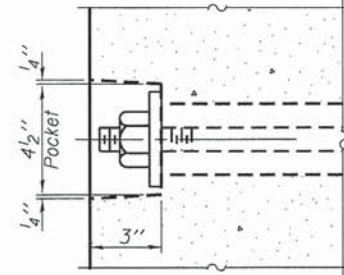
FILE NAME =	USER NAME = eob	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	33" x 36" PPC DECK BEAM - SPANS 3 & 8 STRUCTURE NO. 001-3234	F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 23
Q:\13\files\130817\05\Plans\Current\PPC Deck Beams.dgn	PLOT SCALE = 0.166667' / in.	CHECKED - ADL	REVISED -			CONTRACT NO. 93624				
PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -	SHEET NO. 9 OF 24 SHEETS							
ILLINOIS FED. AID PROJECT Klingner & Associates P.C.										



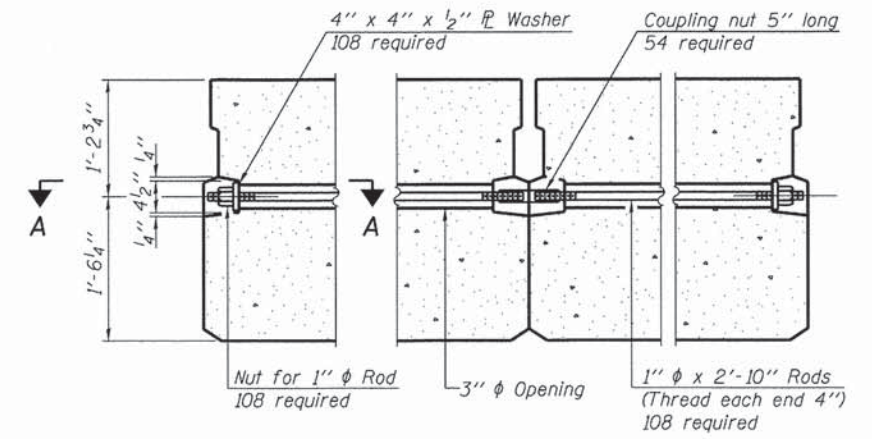
FABRIC BEARING PAD (Interior) FIXED ENDS (Exterior)
FABRIC BEARING PAD (Interior) EXPANSION ENDS (Exterior)

Notes:
All bearing pads shall be 1" thick.

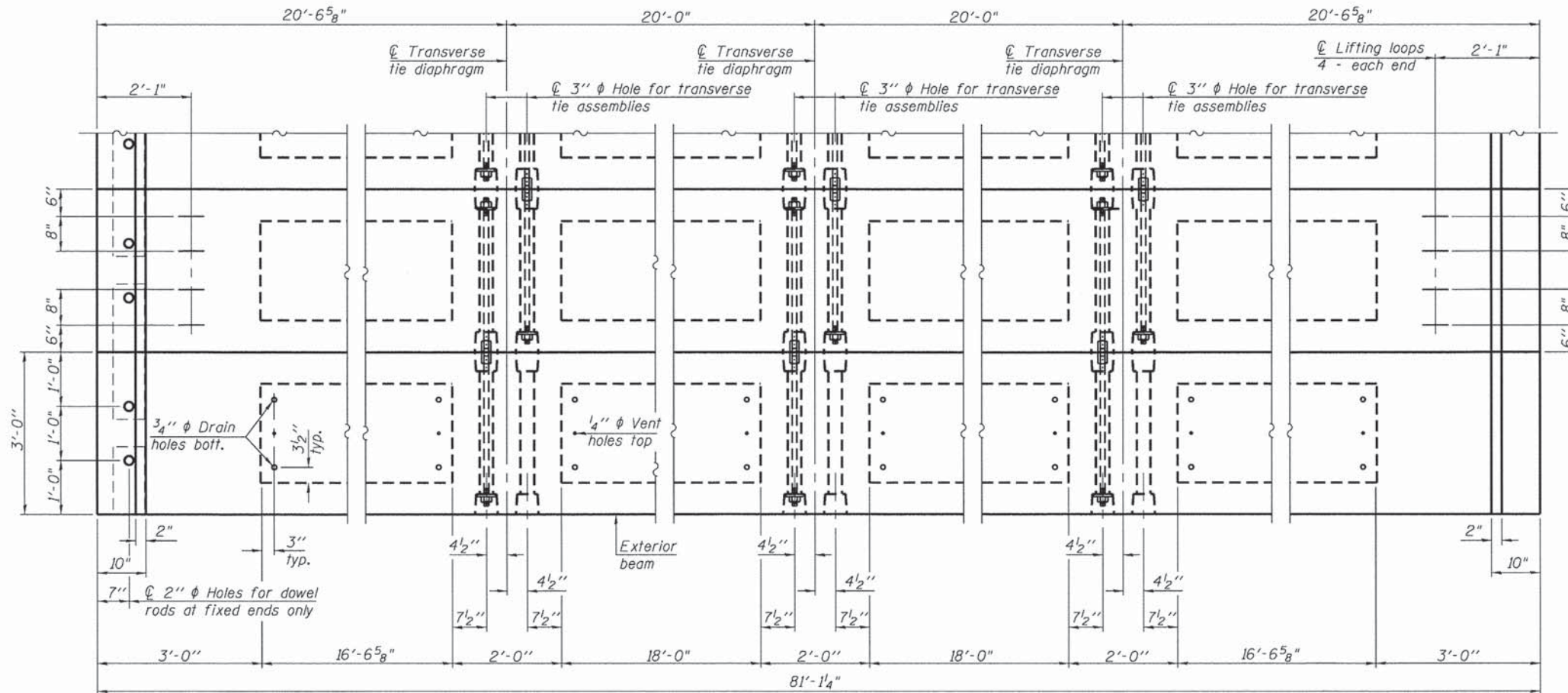
Notes:
All bearing pads shall be 1" thick.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

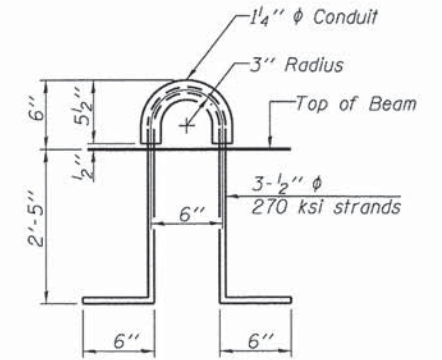


PLAN VIEW

NOTES

Note:
Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

Note:
The loop shall be formed in a manner such that all strands are engaged during lifting. Loops shall be burned off after the beams have been erected.

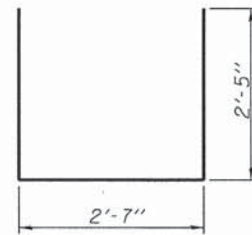
**BAR LIST
ONE BEAM ONLY
(For information only)**

Bar	No.	Size	Length	Shape
A(E)	75	#4	2'-7"	—
B(E)	8	#5	41'-9"	—
B ₁ (E)	9	#4	28'-4"	—
B ₂ (E)	4	#5	10'-0"	—
C(E)	10	#5	3'-8"	⌋
S(E)	108	#4	7'-5"	⌋
S ₁ (E)	8	#4	6'-3"	⌋
S ₂ (E)	100	#4	6'-6"	⌋
S ₃ (E)	8	#5	6'-7"	⌋
U ₁ (E)	6	#5	5'-0"	⌋
U ₂ (E)	8	#6	6'-2"	⌋

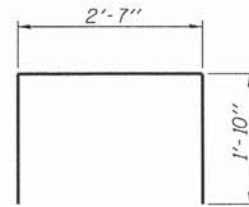
Note: See sheet 9 of 24 for additional details

BILL OF MATERIAL

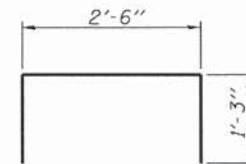
Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	4,866.3
Waterproofing Membrane System	Sq. Yd.	530



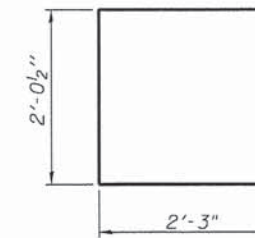
BAR S(E)



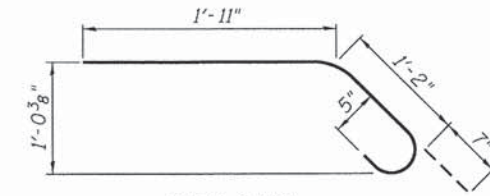
BAR S₁(E)



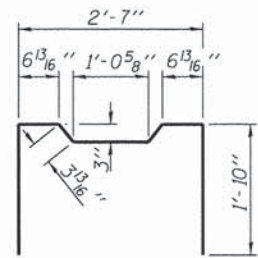
BAR U₁(E)



BAR S₃(E)



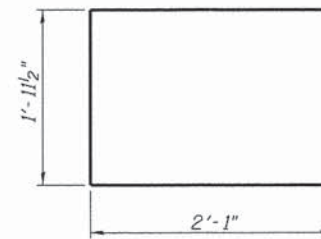
BAR C(E)



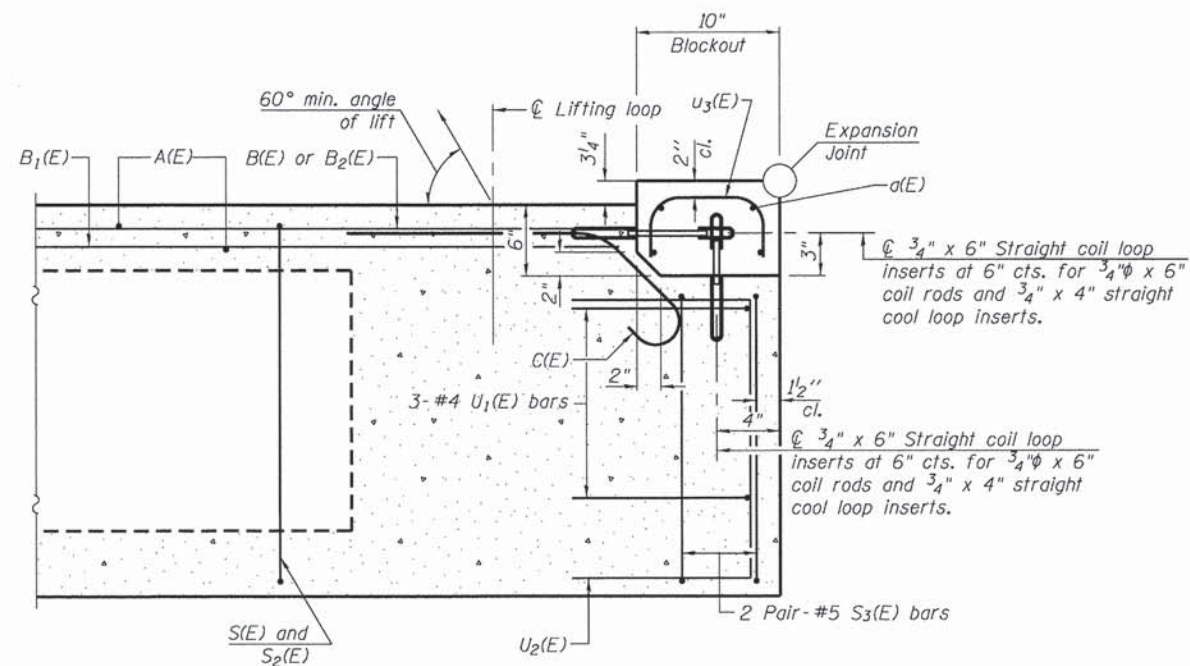
BAR S₂(E)



BAR U(E)



BAR U₂(E)



SECTION D-D

Note:
Cost of Coil Loops included with
Precast Prestressed Concrete Deck
Beams (33" Depth).

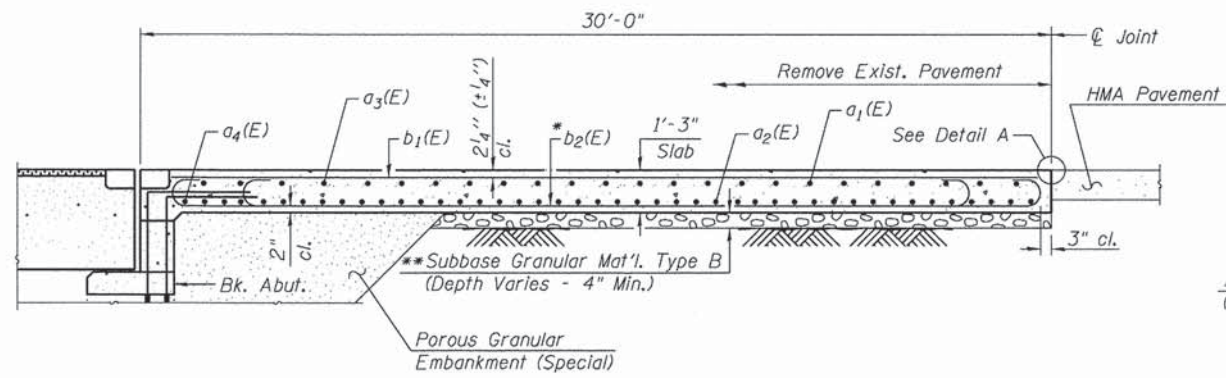
FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -
Q:\13files\130817\05Plans\Current\PPC Deck Beams.dgn		CHECKED - ADL	REVISED -
	PLOT SCALE = 8.166667' / in.	DRAWN -	REVISED -
	PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

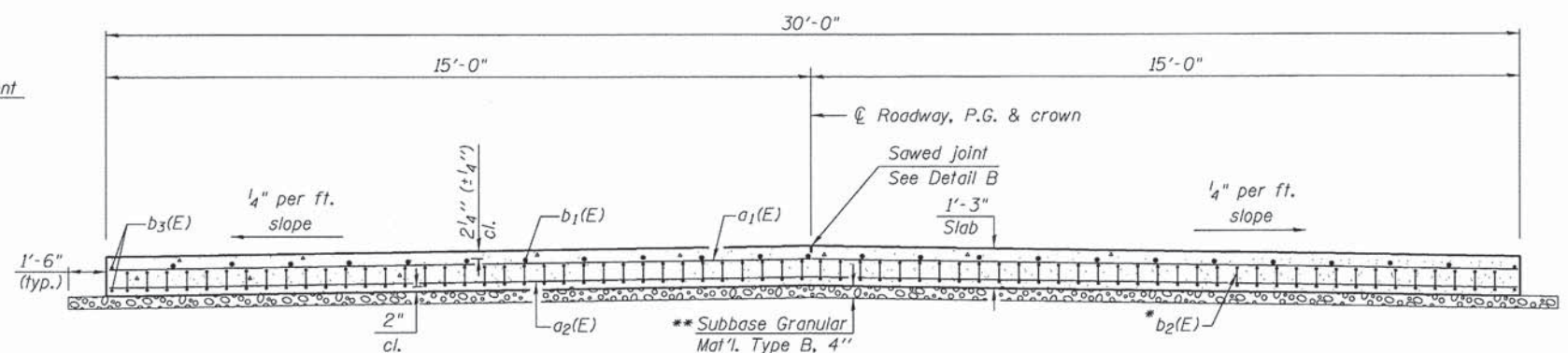
**33" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 001-3234**

SHEET NO. 11 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	25
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

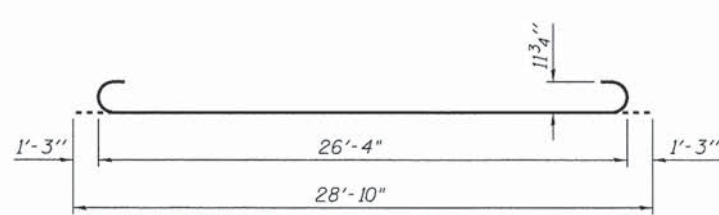


SECTION C-C

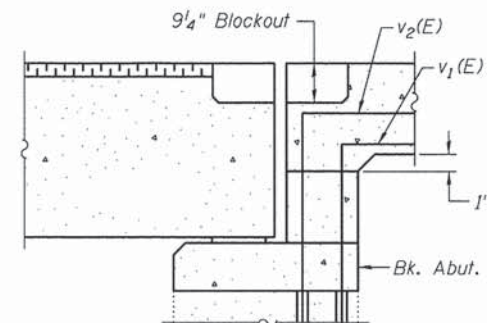


SECTION D-D

(See Plan for dimensions not shown)

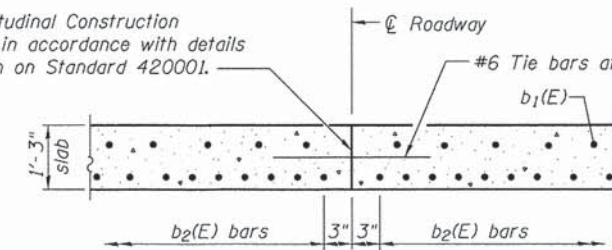


BAR b₂(E)



SECTION E-E

Longitudinal Construction Joint in accordance with details shown on Standard 420001.

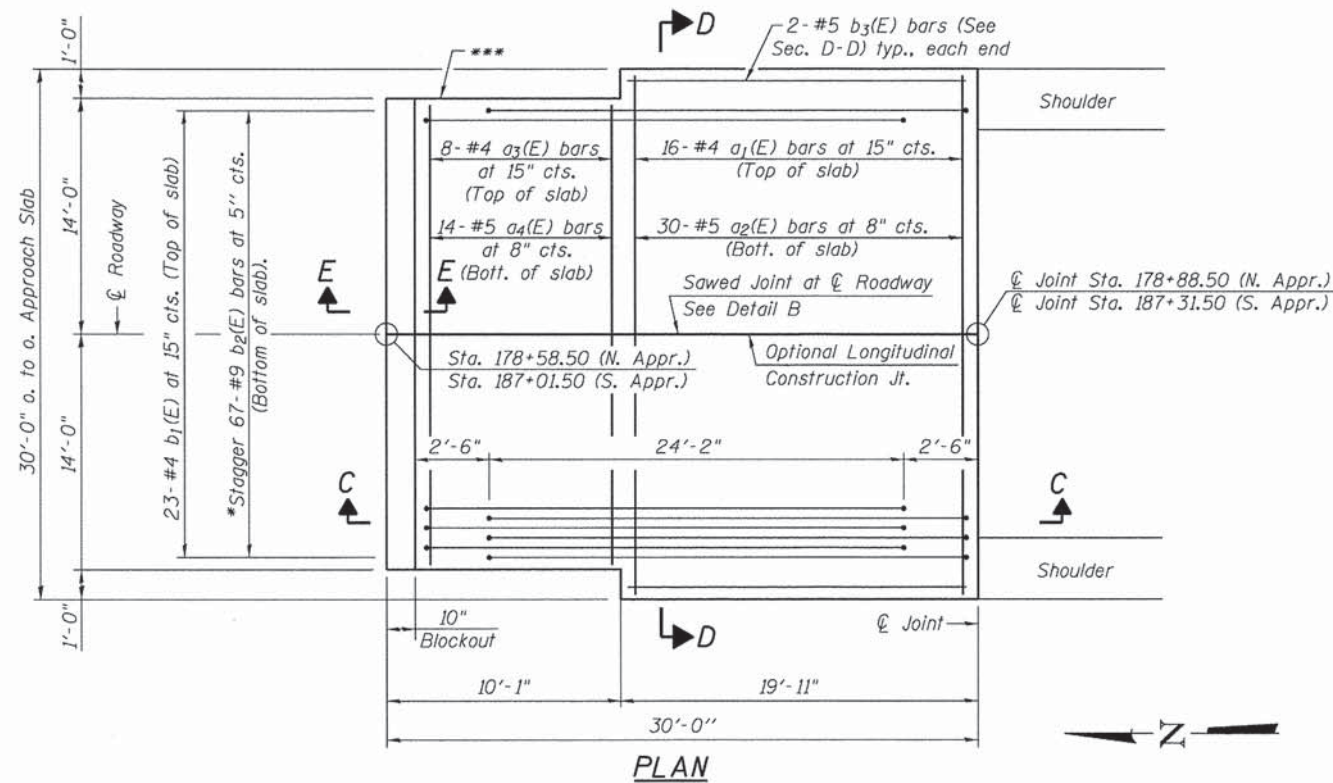


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

As approved by the Engineer, the Contractor may elect to reduce the width of pour by use of the Optional Longitudinal Construction Joint shown. Joint shall be located at \bar{C} roadway.

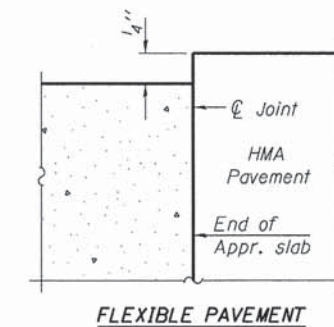
Notes:

- Approach slab concrete shall be included in the cost of Bridge Approach Pavement (Special).
- Reinforcement bars shall be included in the cost of Bridge Approach Pavement (Special).
- a₁(E) and a₂(E) bar spacings measured along \bar{C} Rdwy.
- For v₁(E) & v₂(E) bar details, see sheets 18 & 19 of 24.
- For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 24.
- Concrete for expansion blockouts included in Concrete Superstructure on Sheet 5 of 24.
- * Tilt #9 b₂(E) bars as required to maintain clearance.
- ** Cost included with Bridge Approach Pavement (Special).
- *** Closed cell joint filler according to 1051.08 of the Std. Specifications; full depth of slab, full length of existing wingwall. Typical each corner. Cost included with Bridge Approach Pavement (Special).

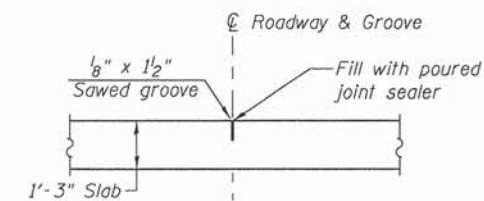


PLAN

Note:
South Bridge Approach Pavement shown, North Bridge Approach Pavement the same, except opposite hand.



FLEXIBLE PAVEMENT DETAIL A



DETAIL B
(Reinforcement Not Shown)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₁ (E)	32	#4	29'-8"	—
a ₂ (E)	60	#5	29'-8"	—
a ₃ (E)	16	#4	27'-8"	—
a ₄ (E)	28	#5	27'-8"	—
b ₁ (E)	46	#4	28'-10"	—
b ₂ (E)	134	#9	28'-10"	—
b ₃ (E)	8	#5	19'-7"	—
Bridge Approach Pavement (Special)			Sq. Yd.	196
Protective Coat			Sq. Yd.	196

FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -
Q:\131\1310817\05\Plans\Current\Superstructure.dgn		CHECKED - ADL	REVISED -
PLOT SCALE = 8.166667 ' / in.		DRAWN - RJP	REVISED -
PLOT DATE = 8/14/2014		CHECKED - ADL	REVISED -

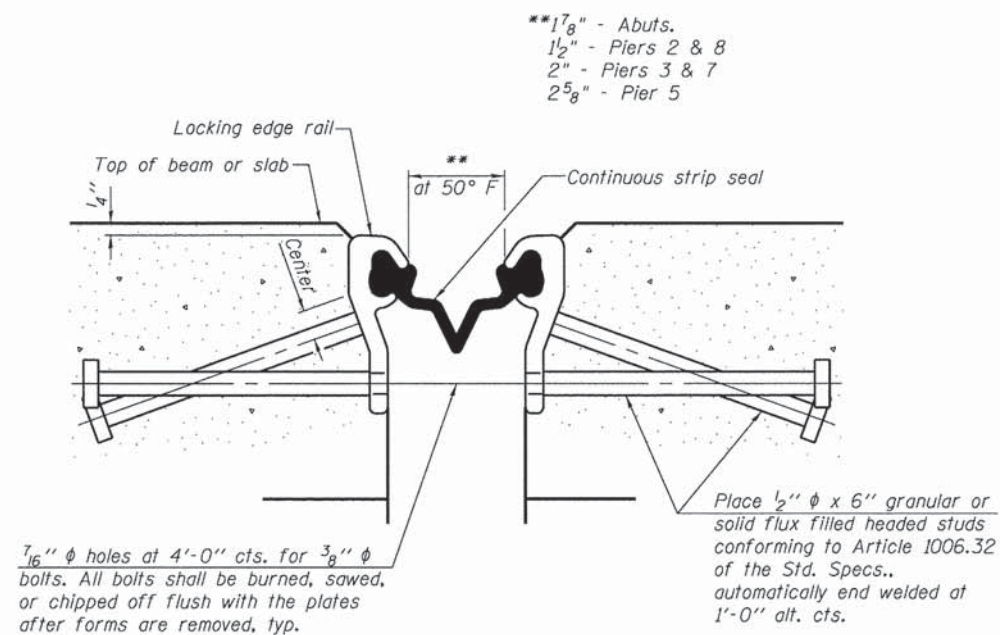
**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**BRIDGE APPROACH SLAB DETAILS
S.N. 001-3234**

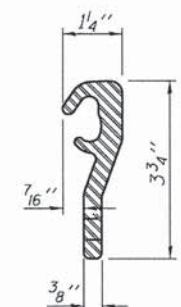
SHEET NO. 12 OF 24 SHEETS

F.A.P. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 26
			CONTRACT NO. 93624	

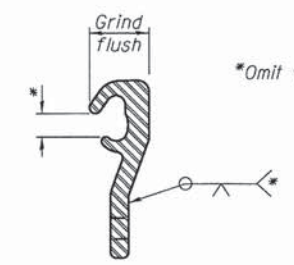
ILLINOIS FED. AID PROJECT
Klingner & Associates P.C.



SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS



LOCKING EDGE RAIL

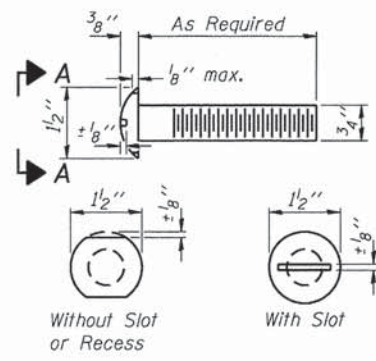


LOCKING EDGE RAIL SPLICE

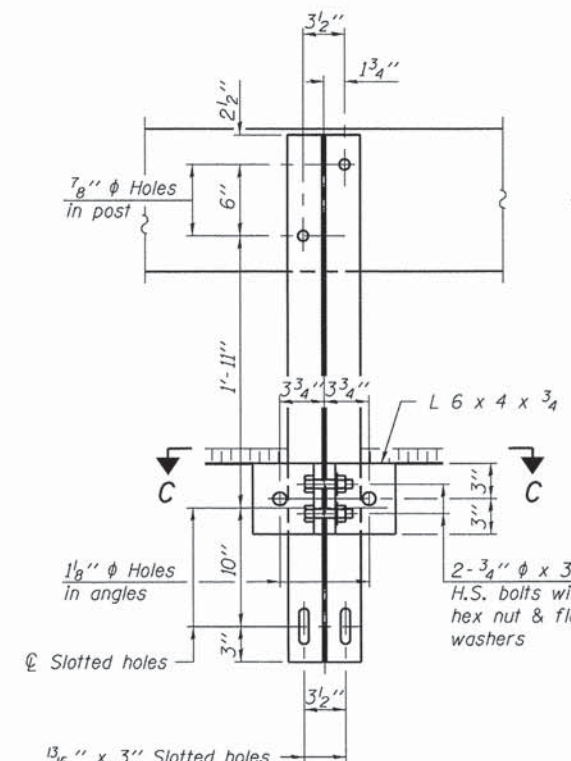
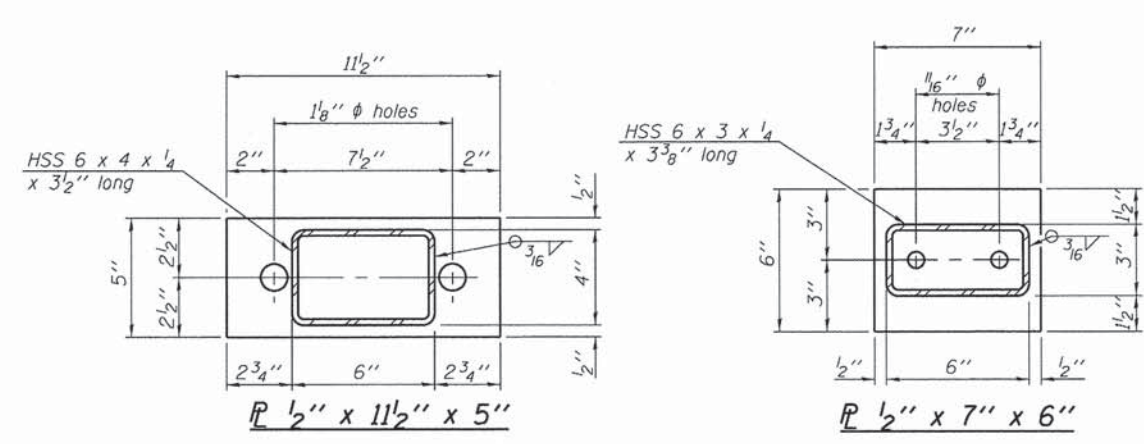
Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 The inside of the Locking Edge Rail groove shall be free of weld residue.
 Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 The manufacturer's recommended installation methods shall be followed.

BILL OF MATERIAL

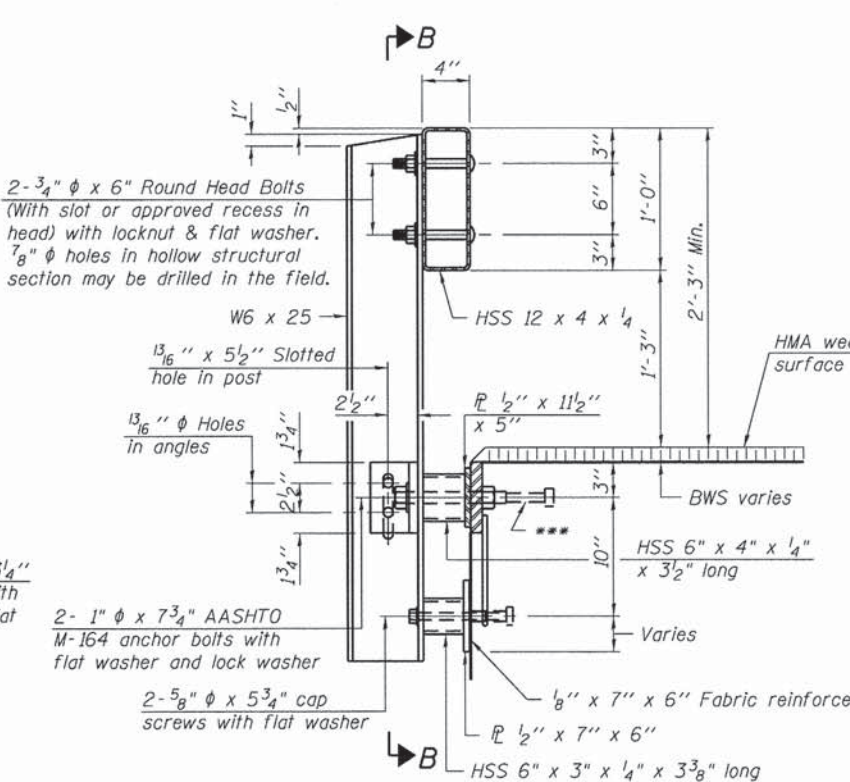
Item	Unit	Total
Preformed Joint Strip Seal	Foot	210



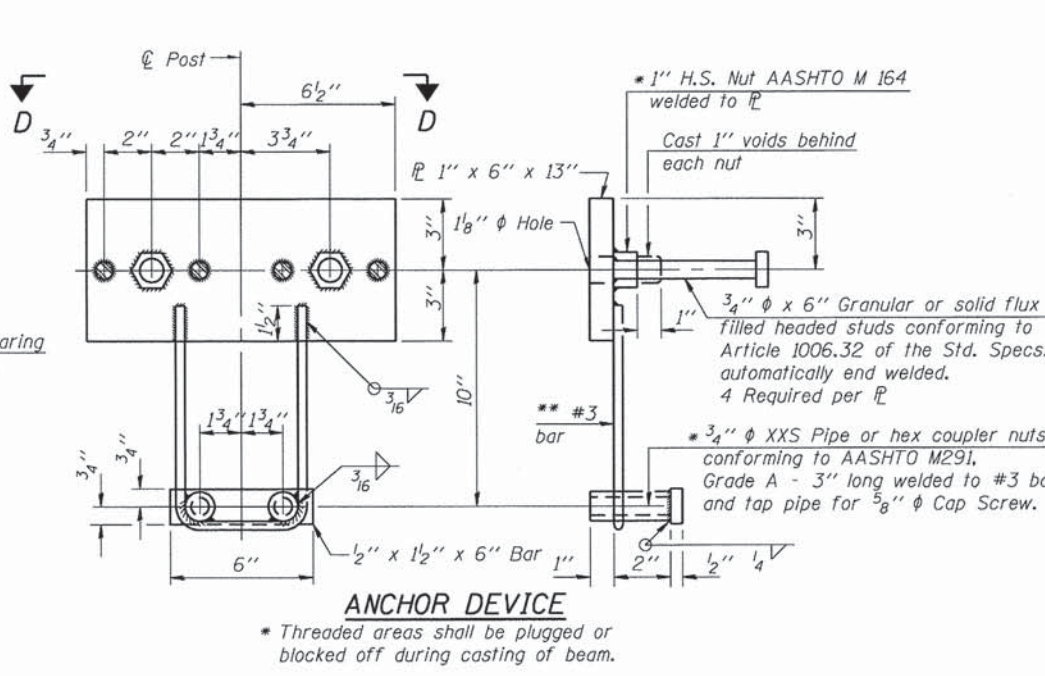
**VIEW A-A
ROUND HEAD BOLT**



SECTION B-B

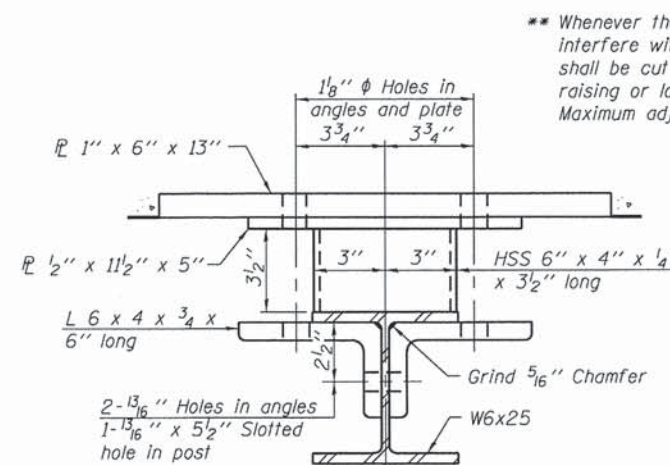


SECTION AT RAILING POST

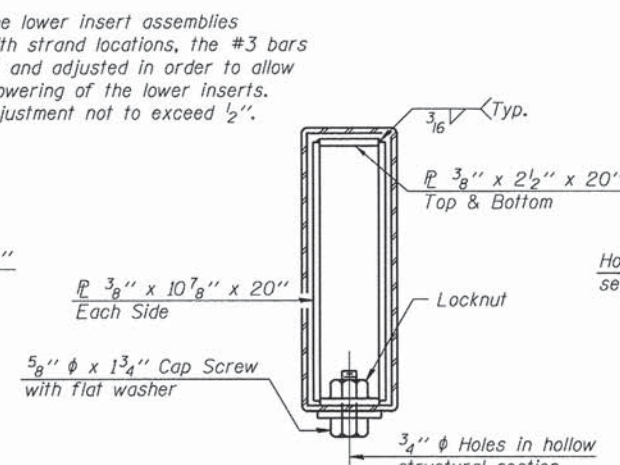


ANCHOR DEVICE

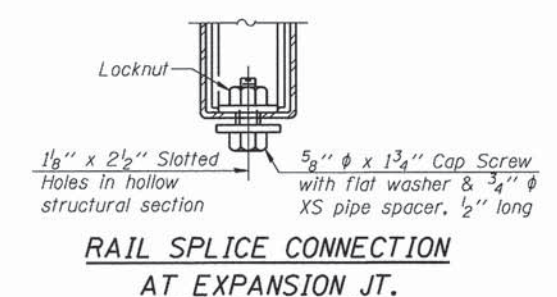
Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cast included with Steel Railing, Type S-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



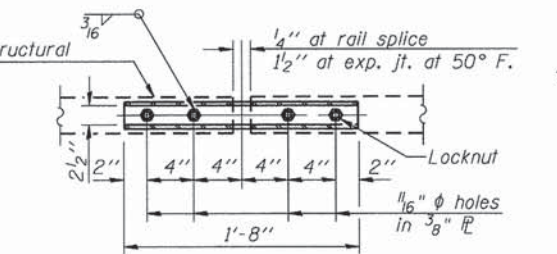
SECTION C-C



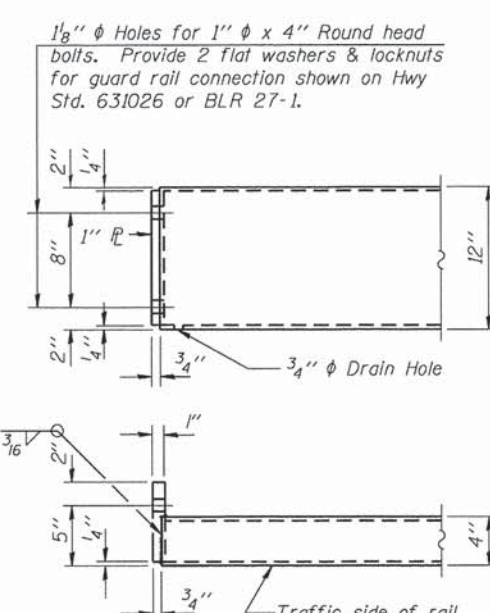
SECTIONS AT RAIL SPLICE



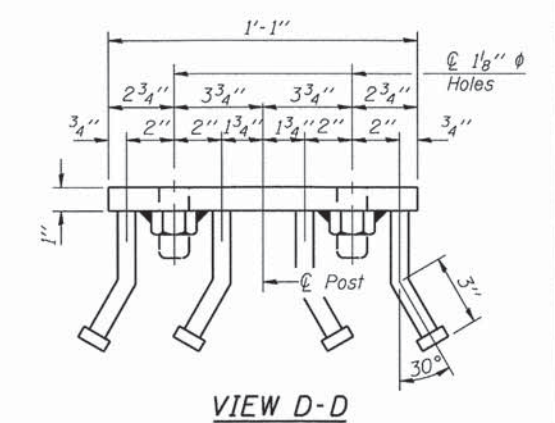
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	1,625

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FILE NAME =	USER NAME = sub	DESIGNED - RJP	REVISED -
D:\131files\138017\05.Plans\Current\Type S Railing.dgn		CHECKED - ADL	REVISED -
PLOT SCALE = 0.166667 / 1 in.		DRAWN -	REVISED -
PLOT DATE = 8/14/2014		CHECKED - ADL	REVISED -

ADAMS COUNTY
HIGHWAY DEPARTMENT

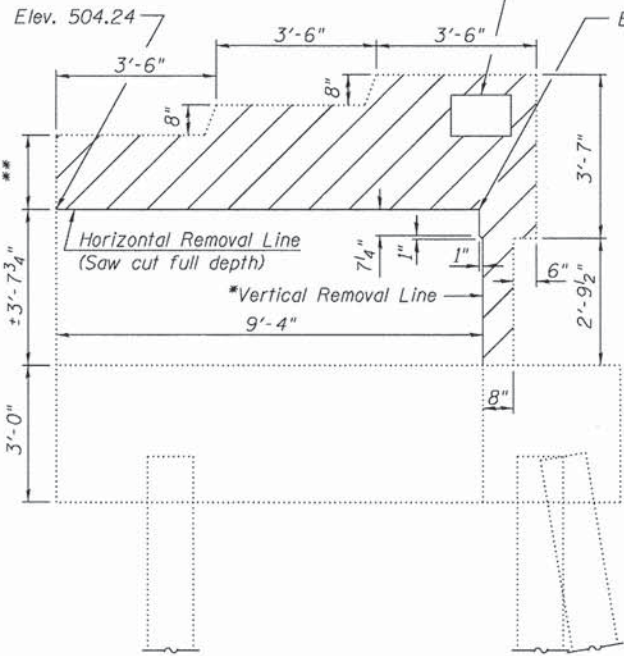
STEEL RAILING, TYPE S-1
STRUCTURE NO. 001-3234

SHEET NO. 14 OF 24 SHEETS

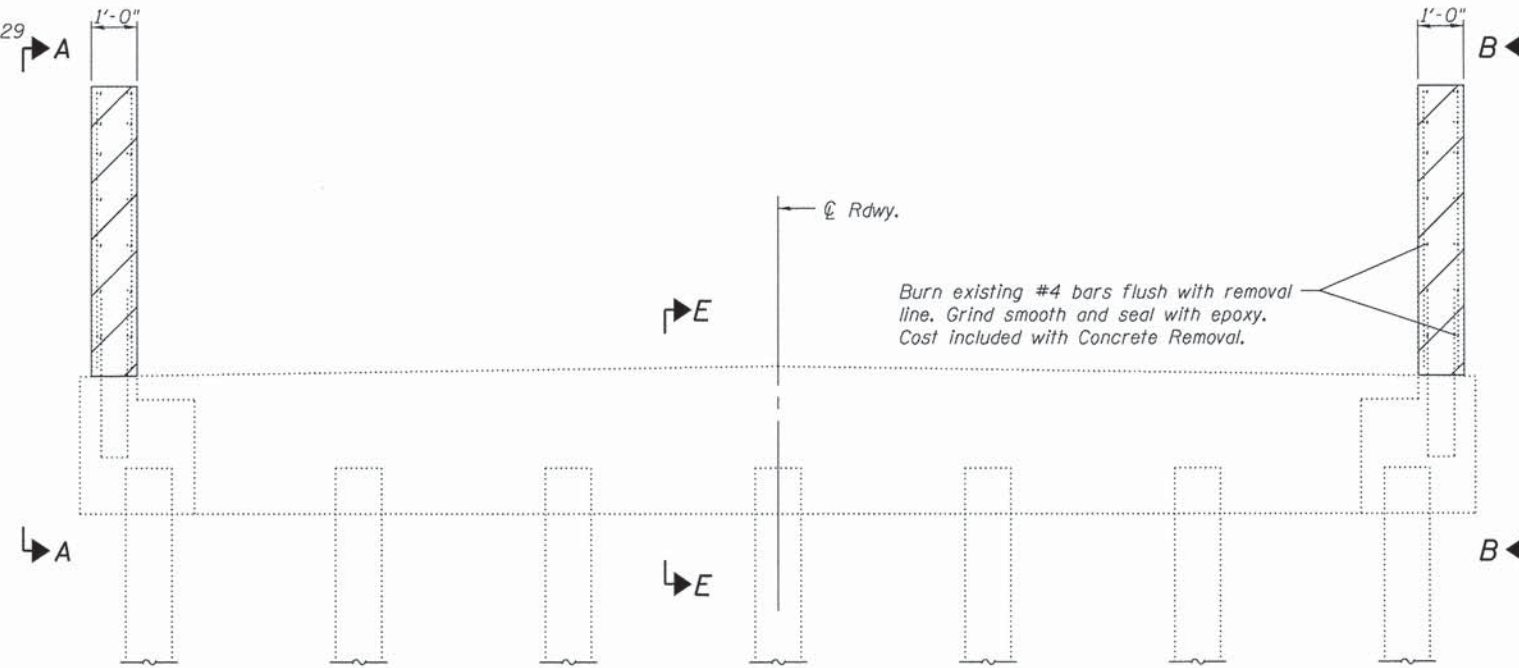
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	28
CONTRACT NO. 93624				

ILLINOIS FED. AID PROJECT
Klingner & Associates P.C.

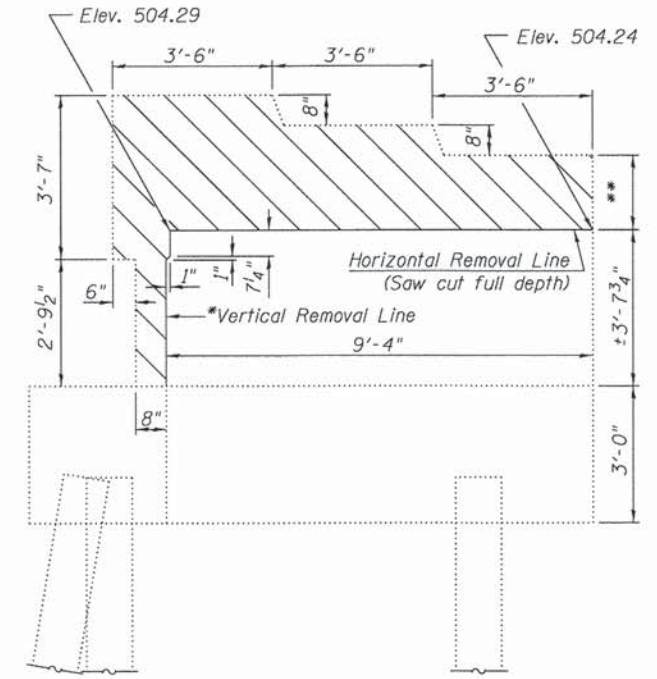
Existing Name Plate (far side) to be removed and relocated. See sheet 2 of 24 for details.



VIEW A-A



ELEVATION
(Looking North)



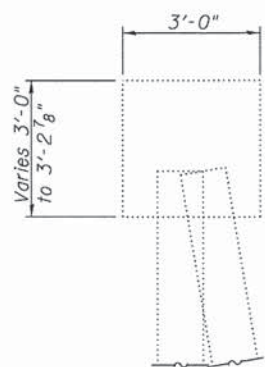
VIEW B-B

*Saw cut each side of Removal Line 3/4" deep prior to removal, unless noted otherwise.

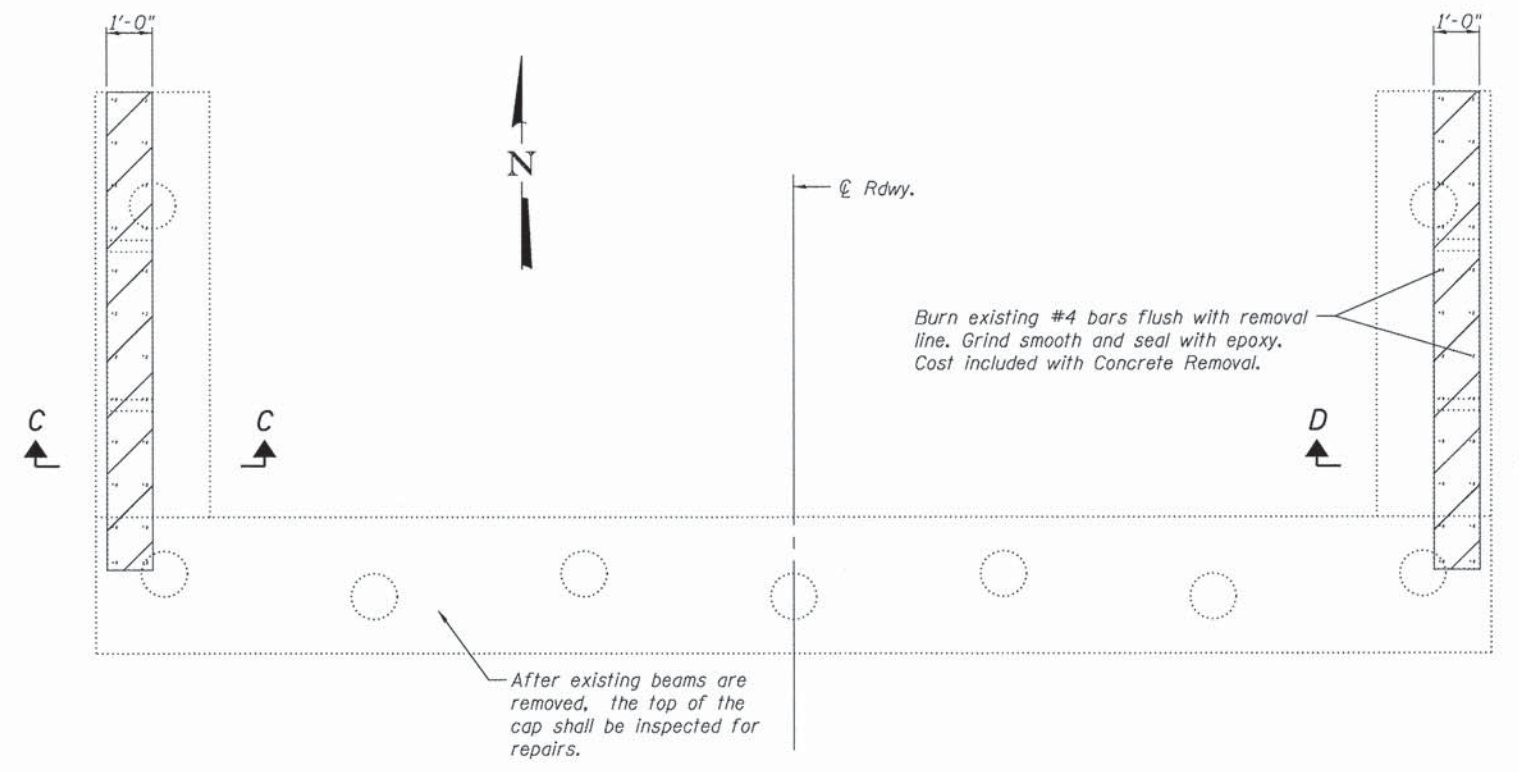
**Varies from ±1'-4 1/4" to ±1'-4 7/8"

LEGEND

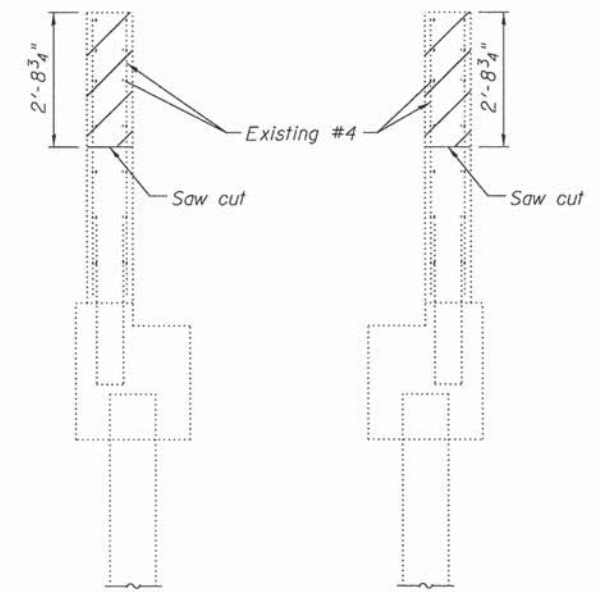
Concrete Removal



SECTION E-E



PLAN



SECTION C-C

SECTION D-D

BILL OF MATERIAL

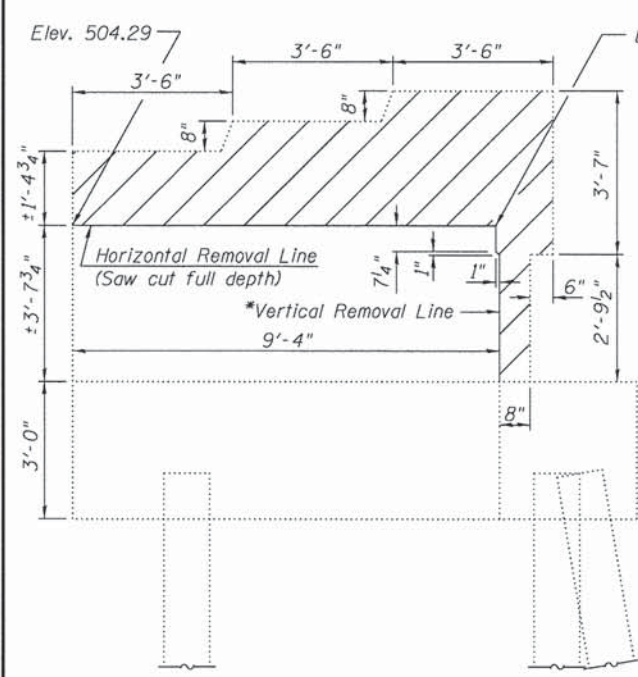
Item	Unit	Total
Concrete Removal	Cu. Yd.	1.8

FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -
G:\13\files\130817\05\Plans\Current\Substructure.dgn		CHECKED - ADL	REVISED -
		DRAWN -	REVISED -
		CHECKED - ADL	REVISED -

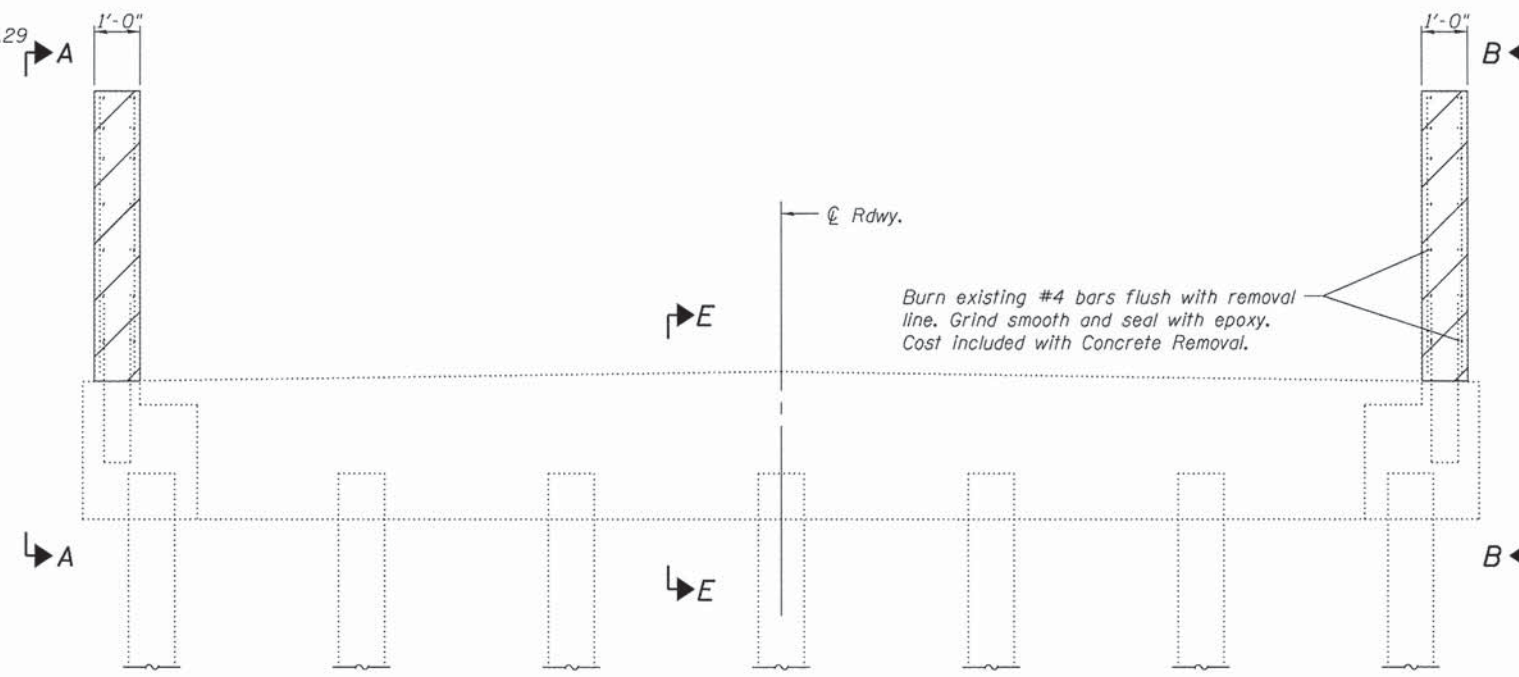
ADAMS COUNTY
HIGHWAY DEPARTMENT

NORTH ABUTMENT REMOVAL
STRUCTURE NO. 001-3234
SHEET NO. 15 OF 24 SHEETS

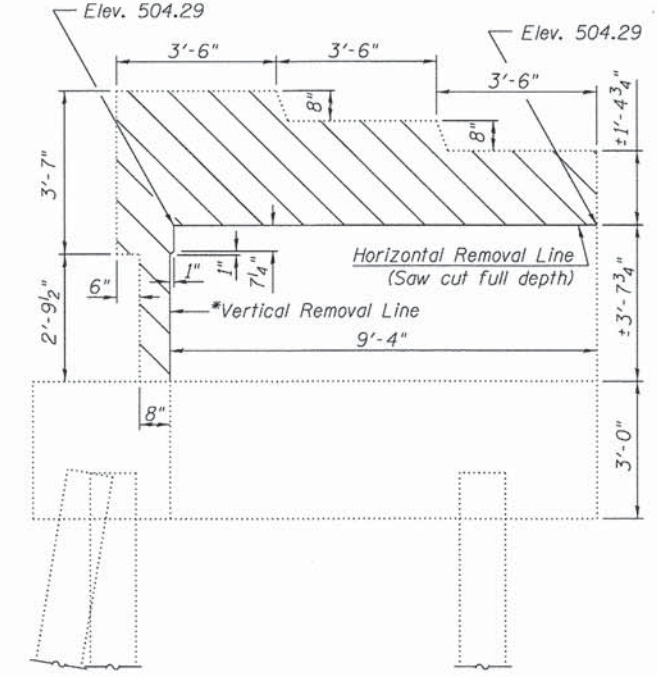
F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 29
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				



VIEW A-A



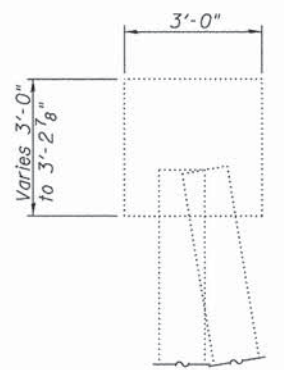
ELEVATION
(Looking South)



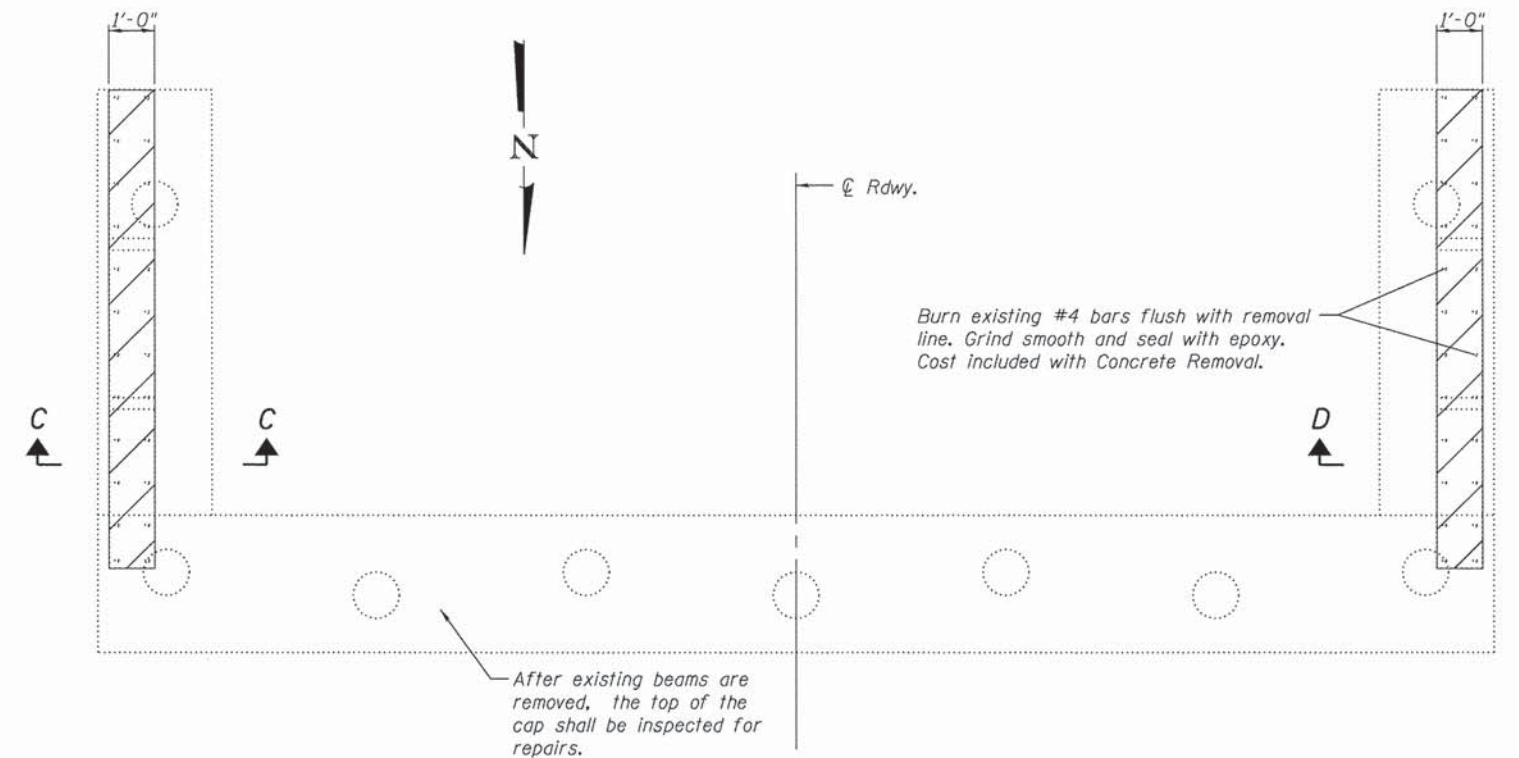
*Saw cut each side of Removal Line 3/4" deep prior to removal, unless noted otherwise.

LEGEND

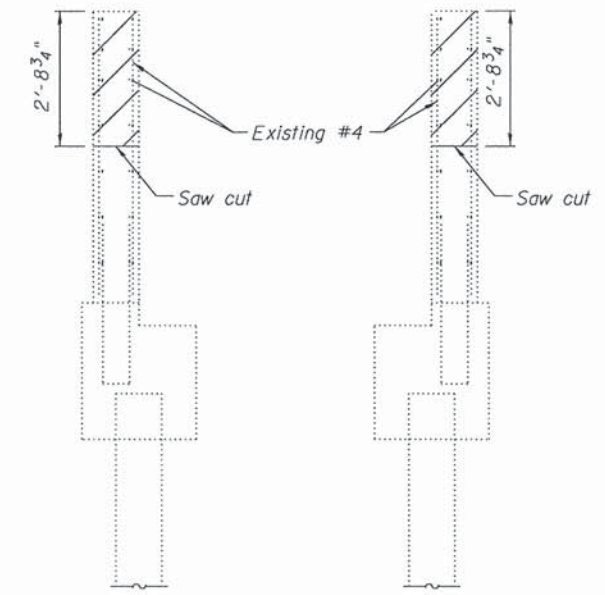
Concrete Removal



SECTION E-E



PLAN

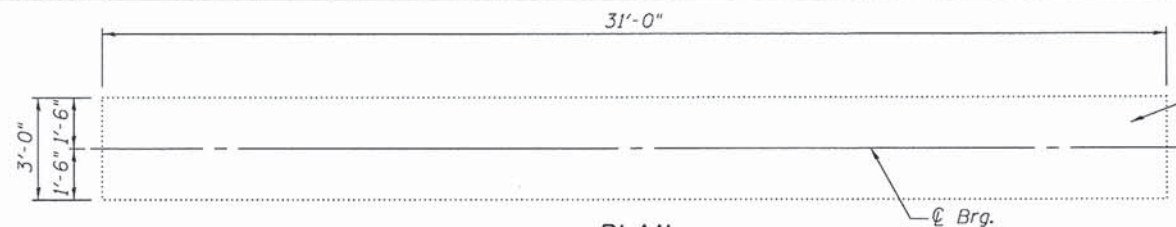


SECTION C-C

SECTION D-D

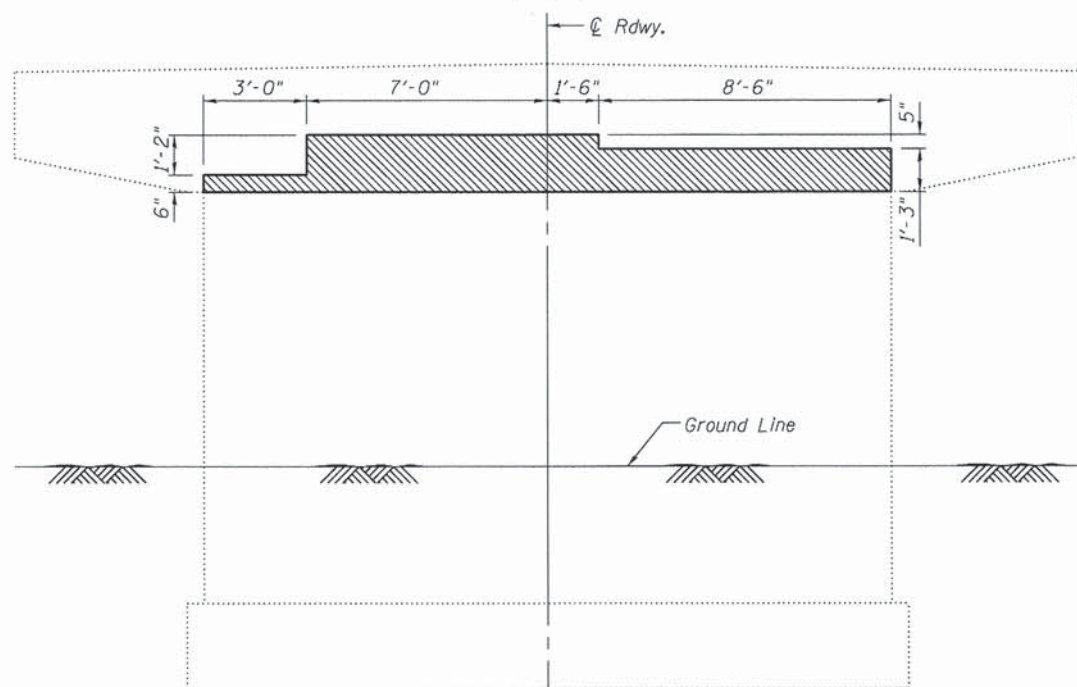
BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	1.8

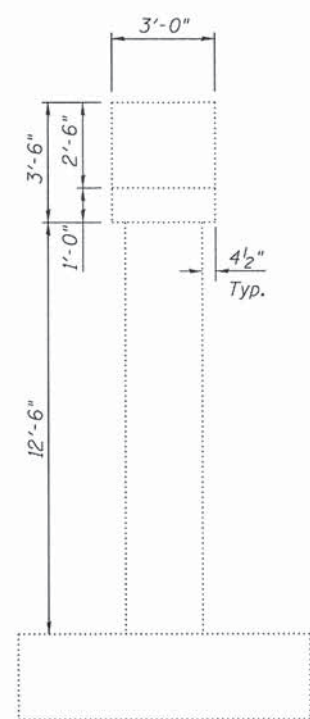


PLAN

After existing beams are removed, the top of the cap shall be inspected for repairs.



SOUTH ELEVATION
(Looking North)



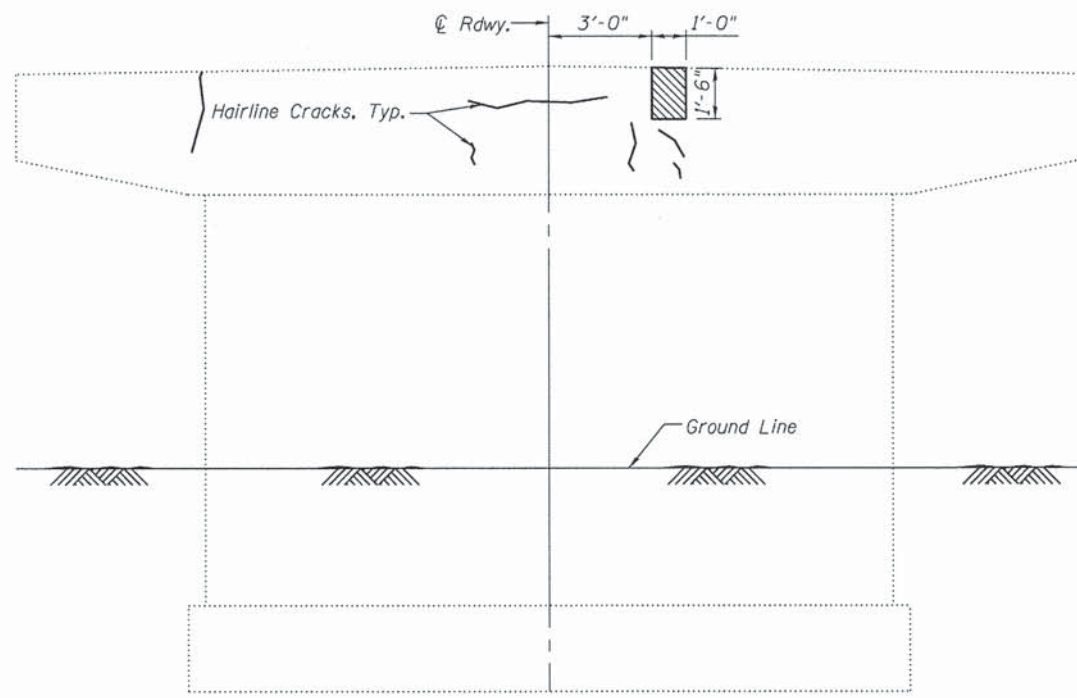
WEST END VIEW
(Looking East)

LEGEND

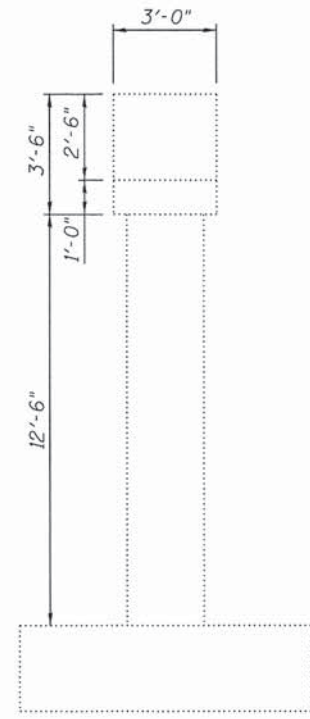
Structural Repair of Concrete
(Depth equal to or less than 5 inches)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	28

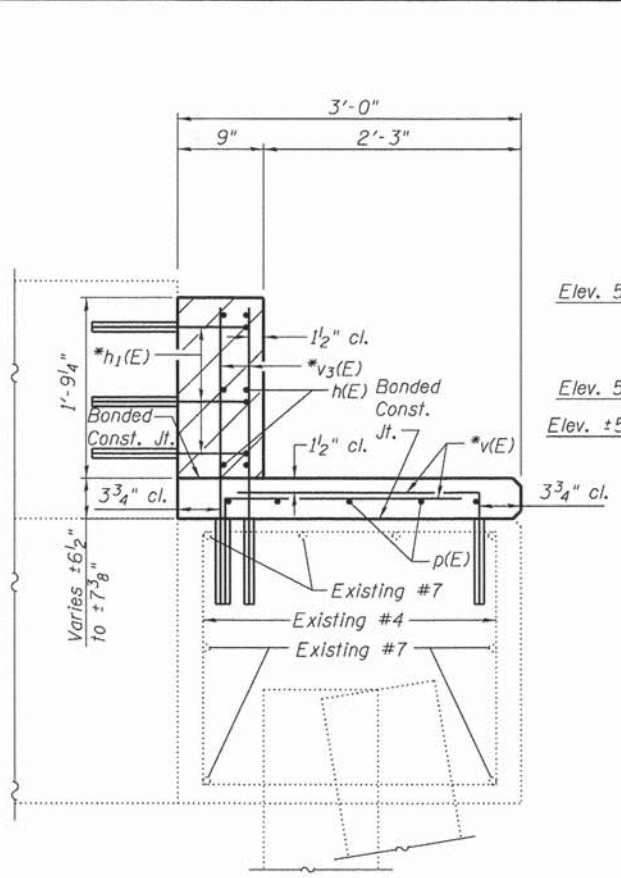


NORTH ELEVATION
(Looking South)

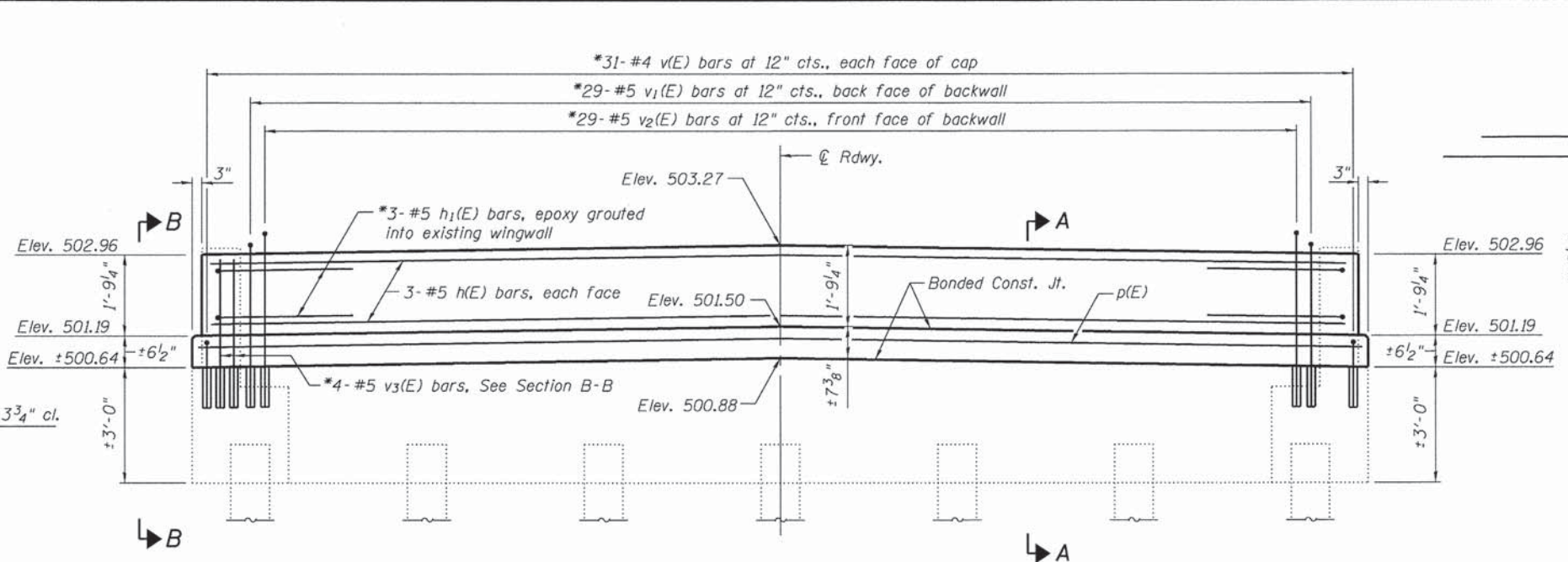


EAST END VIEW
(Looking West)

FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	PIER 7 REPAIRS STRUCTURE NO. 001-3234	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\13files\130817\05.Plans\Current\Substructure.dgn		CHECKED - ADL	REVISED -			1600	11-00078-03-BR	ADAMS	60	31	
PLOT SCALE = 0.166667' / in.		DRAWN -	REVISED -			CONTRACT NO. 93624					
PLOT DATE = 8/14/2014		CHECKED - ADL	REVISED -			ILLINOIS FED. AID PROJECT Klingner & Associates P.C.					

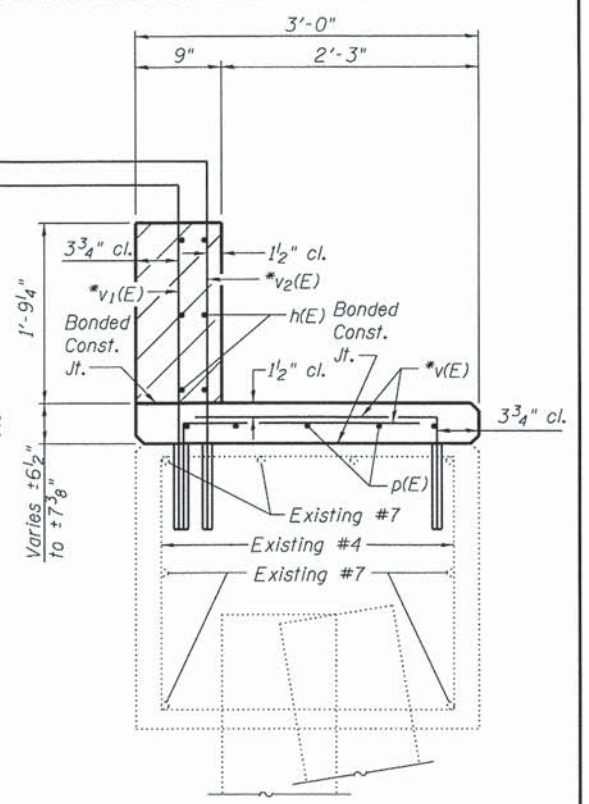


SECTION B-B

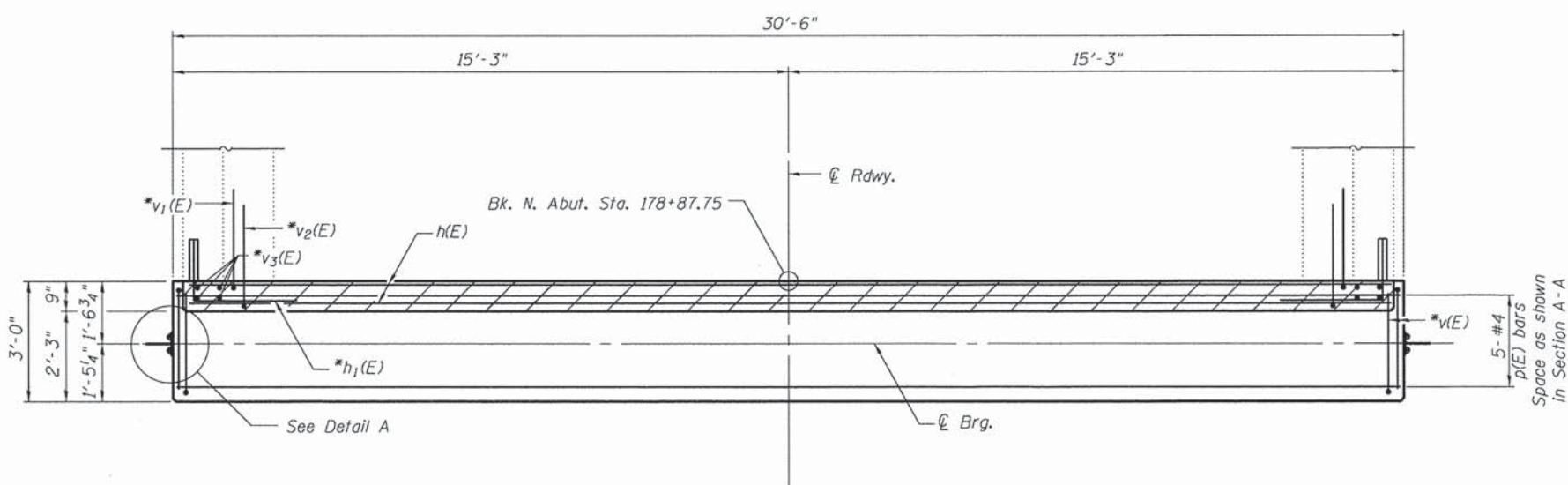


ELEVATION
(Looking North)

*Epoxy grout h₁(E), v(E), v₁(E), v₂(E) and v₃(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.

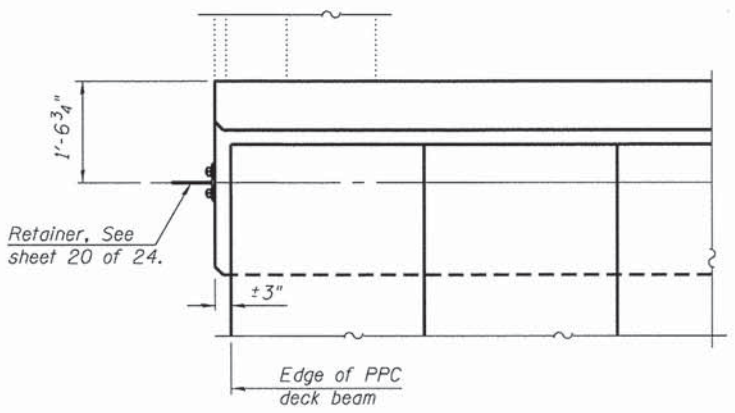


SECTION A-A

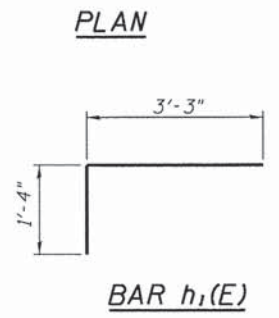


PLAN

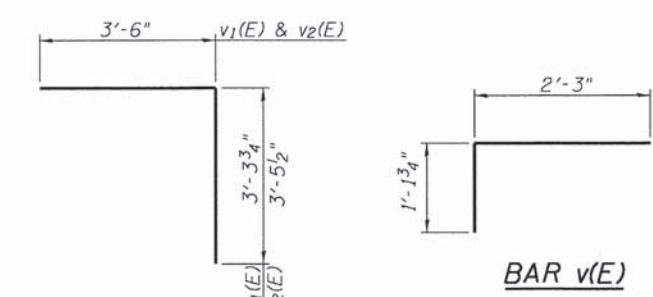
Notes:
 Cost of retainers, temporary wedges and accessories are included with Precast Prestressed Concrete Deck Beams (33" Depth). After the notch or HMA overlay are poured and cured, the temporary steel wedges shall be removed. The retainers with no wedges shall remain. Cost included with Precast Prestressed Concrete Deck Beams (33" Depth). Concrete Sealer shall be applied to the top and sides of cap for new concrete. Hatched areas to be poured after beams are in place. All exposed edges shall have standard 3/4" chamfers unless noted otherwise.



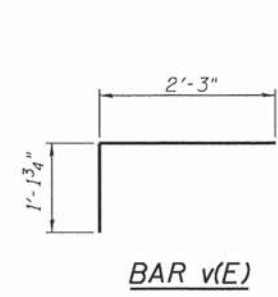
DETAIL A



BAR h₁(E)



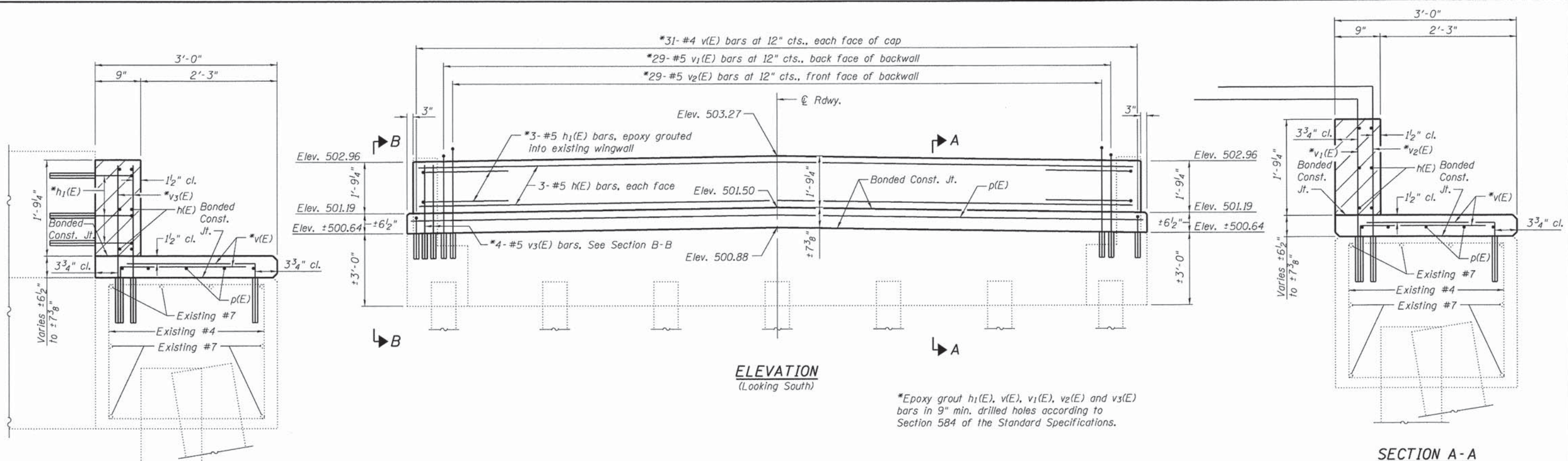
BARS v₁(E) & v₂(E)



BAR v(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	29'-8"	—
h ₁ (E)	6	#5	4'-7"	U
p(E)	5	#4	30'-2"	—
v(E)	62	#4	3'-5"	U
v ₁ (E)	29	#5	6'-10"	U
v ₂ (E)	29	#5	7'-0"	U
v ₃ (E)	8	#5	2'-8"	—
Reinforcement Bars, Epoxy Coated		Pound	900	
Concrete Structures		Cu. Yd.	3.4	
Concrete Sealer		Sq. Ft.	130	

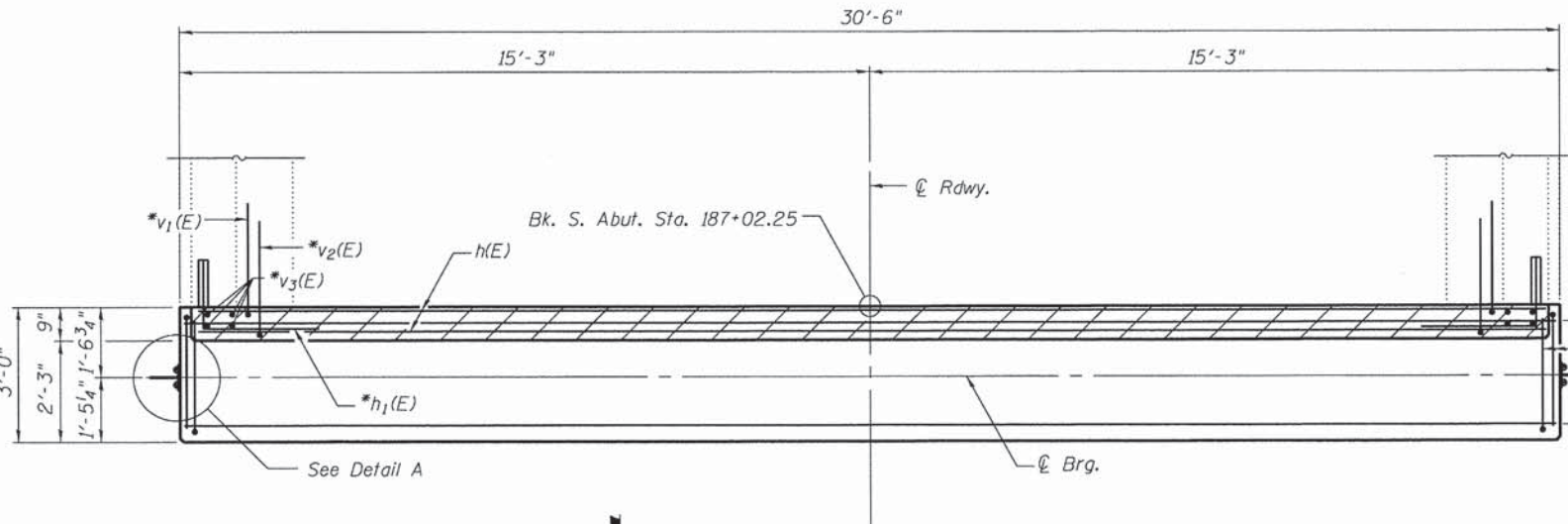


ELEVATION
(Looking South)

SECTION A-A

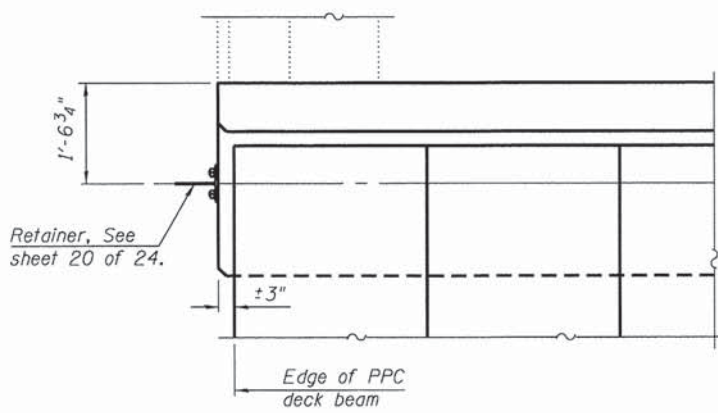
*Epoxy grout h₁(E), v(E), v₁(E), v₂(E) and v₃(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.

SECTION B-B

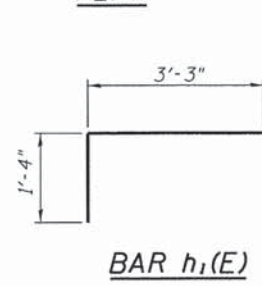


PLAN

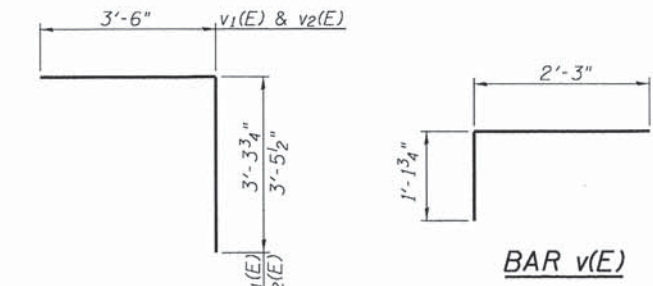
Notes:
 Cost of retainers, temporary wedges and accessories are included with Precast Prestressed Concrete Deck Beams (33" Depth). After the notch or HMA overlay are poured and cured, the temporary steel wedges shall be removed. The retainers with no wedges shall remain. Cost included with Precast Prestressed Concrete Deck Beams (33" Depth).
 Concrete Sealer shall be applied to the top and sides of cap for new concrete.
 Hatched areas to be poured after beams are in place.
 All exposed edges shall have standard 3/4" chamfers unless noted otherwise.



DETAIL A



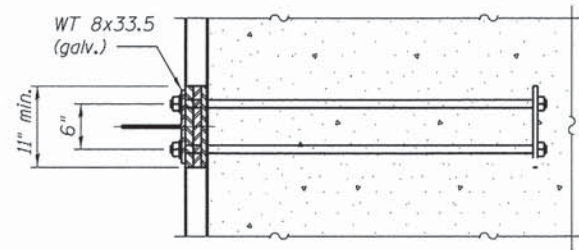
BAR h₁(E)



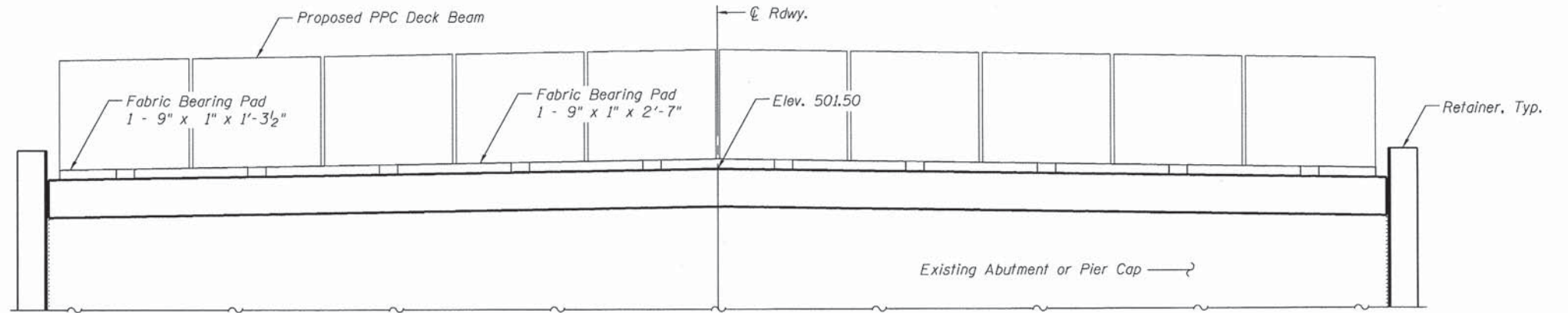
BARS v₁(E) & v₂(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	29'-8"	—
h ₁ (E)	6	#5	4'-7"	┌
p(E)	5	#4	30'-2"	—
v(E)	62	#4	3'-5"	┌
v ₁ (E)	29	#5	6'-10"	┌
v ₂ (E)	29	#5	7'-0"	┌
v ₃ (E)	8	#5	2'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	900
Concrete Structures			Cu. Yd.	3.4
Concrete Sealer			Sq. Ft.	130

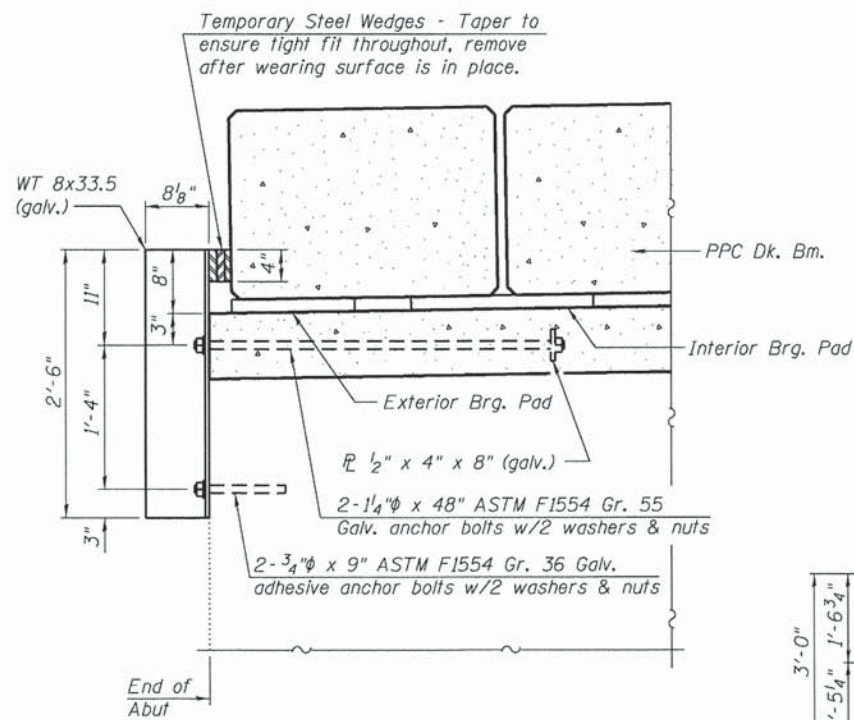


RETAINER PLAN



TYPICAL BEARING PAD ELEVATION

(HMA wearing surface and blockouts not shown)



RETAINER ELEVATION

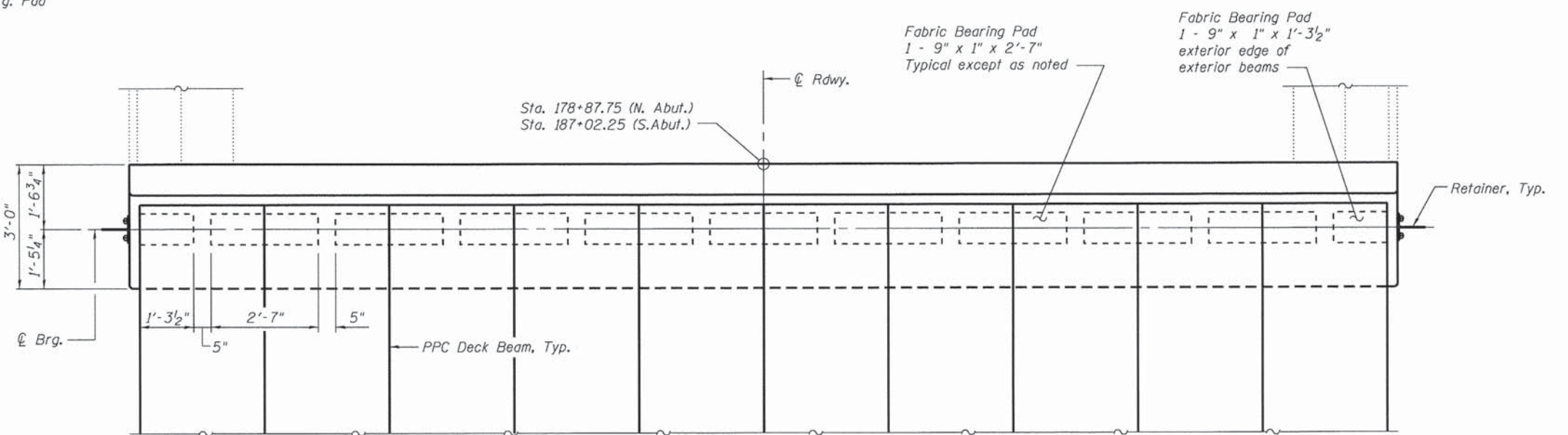
Notes:

Anchor bolts shall be cast into the concrete and tied to the mat of new reinforcement. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams (33" Depth).

The permanent retainers, except the temporary wedges shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.

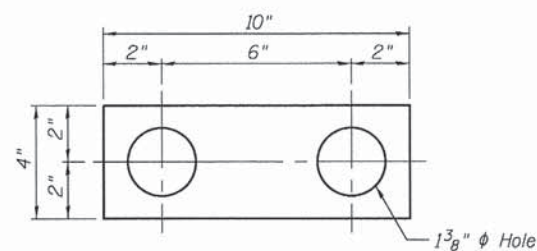
Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alterante material) of the grade and diameter specified. The corresponding specified grade of AASHTO M134 anchor bolts may be used in lieu of ASTM F1554.



TYPICAL ABUTMENT BEARING PAD PLAN

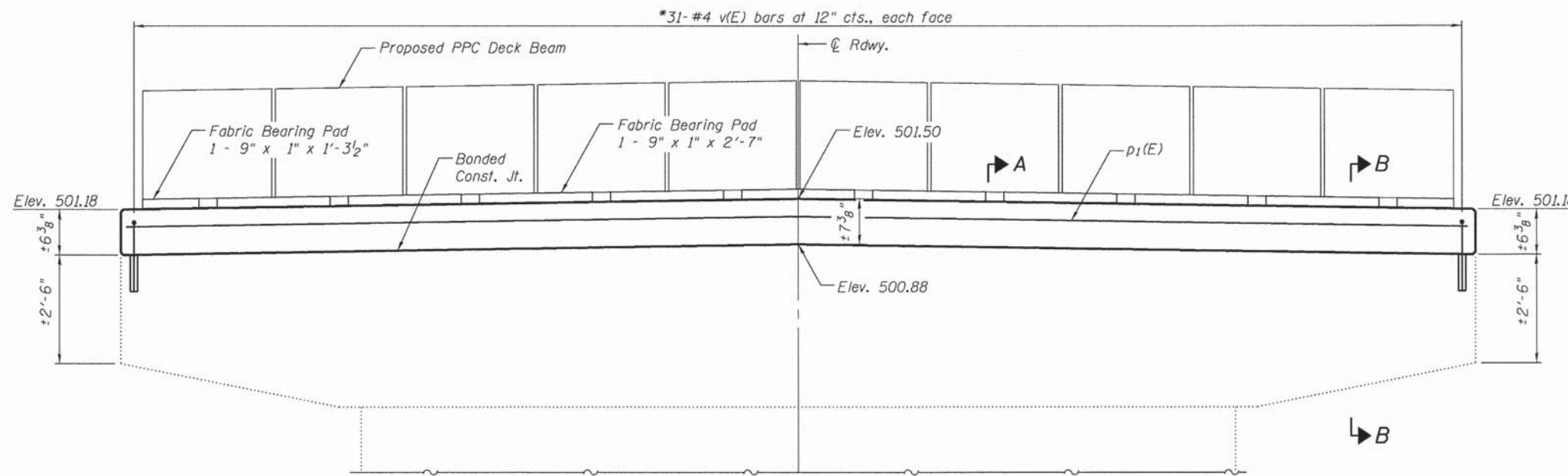
(HMA wearing surface and blockouts not shown)



1/2" x 4" x 8" PLATE DETAIL

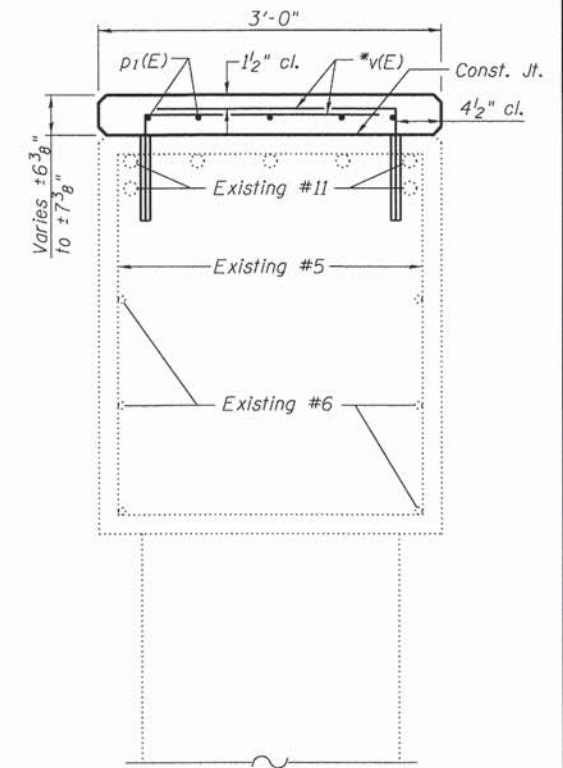
(Hot-Dipped Galvanized)

FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	ABUTMENT & PIER DETAILS STRUCTURE NO. 001-3234	F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 34	
Q:\13f:\ies\130817\05\Plans\Current\Substr	cture.dgn	CHECKED - ADL	REVISED -			CONTRACT NO. 93624					
	PLOT SCALE = 0.166667' / in.	DRAWN -	REVISED -			SHEET NO. 20 OF 24 SHEETS					
	PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -			ILLINOIS FED. AID PROJECT					

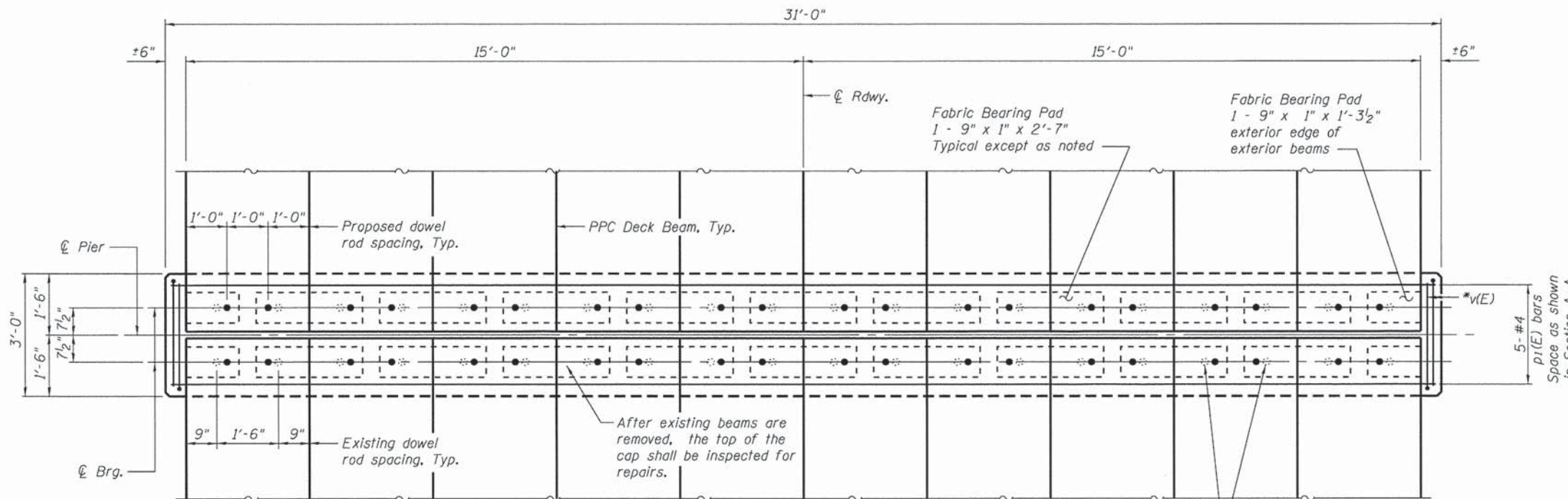


ELEVATION
(Looking South)
(HMA wearing surface not shown)

*Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.

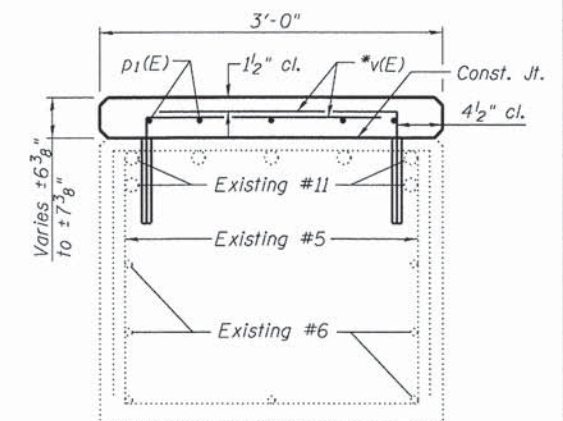


SECTION A-A



PLAN
(HMA wearing surface not shown)

Burn existing dowel rods flush with existing pier surface. Grind existing dowel rods smooth and seal with epoxy. Cost is included with Precast Prestressed Concrete Deck Beams (33" Depth).

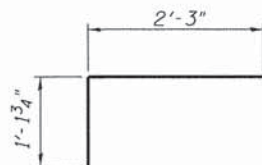


SECTION B-B

BILL OF MATERIAL
ONE PIER

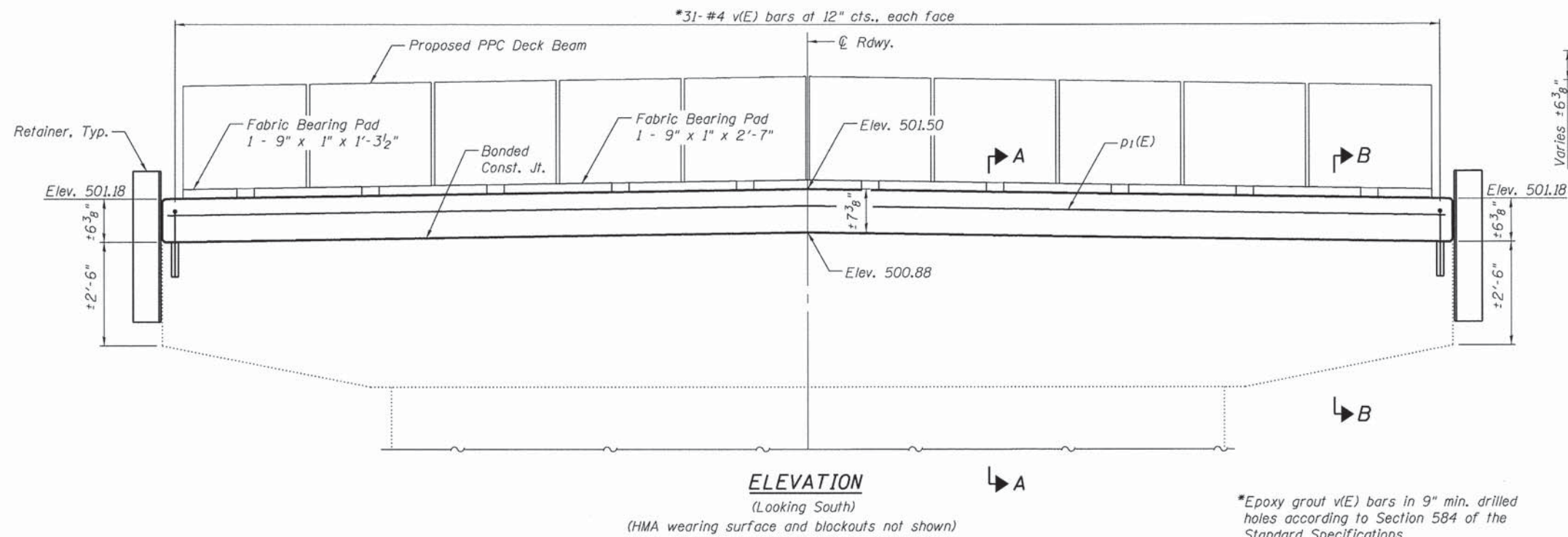
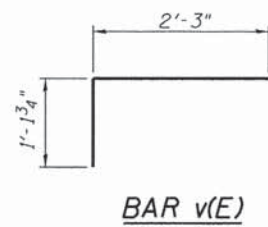
Bar	No.	Size	Length	Shape
v(E)	62	#4	3'-5"	┌
p1(E)	5	#4	30'-8"	—
Reinforcement Bars, Epoxy Coated		Pound	240	
Concrete Structures		Cu. Yd.	2.0	
Concrete Sealer		Sq. Ft.	132	

Note:
Concrete Sealer shall be applied to all surfaces of new concrete.
After existing beams are removed, the top of the cap shall be inspected for repairs.
All exposed edges shall have standard 3/4" chamfers unless noted otherwise.



BAR v(E)

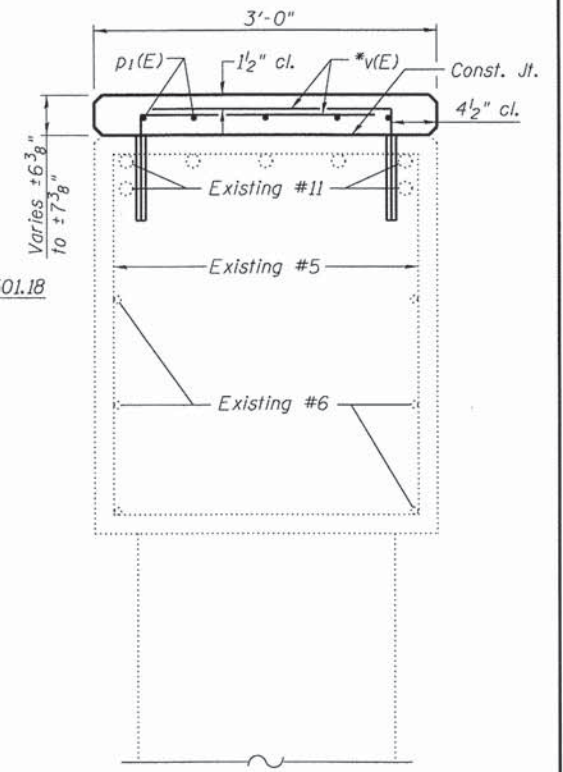
FILE NAME =	USER NAME = seeb	DESIGNED - RJP	REVISED -	ADAMS COUNTY HIGHWAY DEPARTMENT	PIERS 1, 4, 6 & 9 STRUCTURE NO. 001-3234	F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 35	
Q:\13f\ies\138017\05.Plans\Current\Substructure.dgn	PLOT SCALE = 0.166667 ' / in.	CHECKED - ADL	REVISED -			SHEET NO. 21 OF 24 SHEETS		CONTRACT NO. 93624		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 8/14/2014	DRAWN -	REVISED -			Klingner & Associates P.C.					
		CHECKED - ADL	REVISED -								



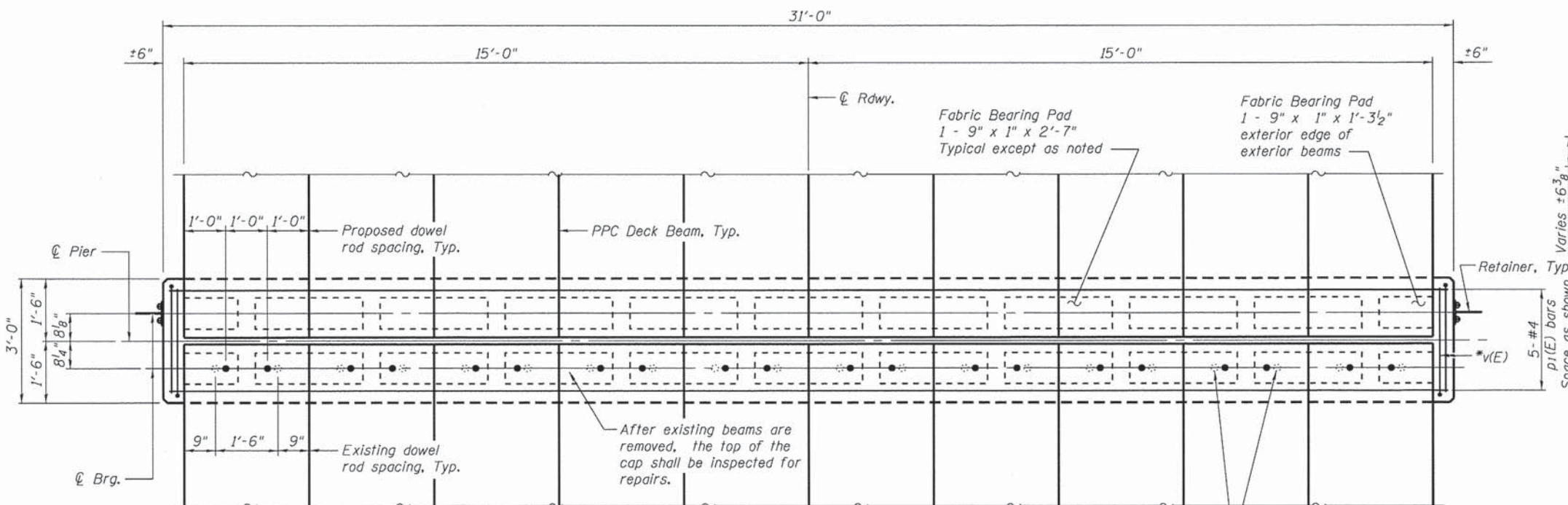
ELEVATION

(Looking South)
(HMA wearing surface and blockouts not shown)

*Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.



SECTION A-A

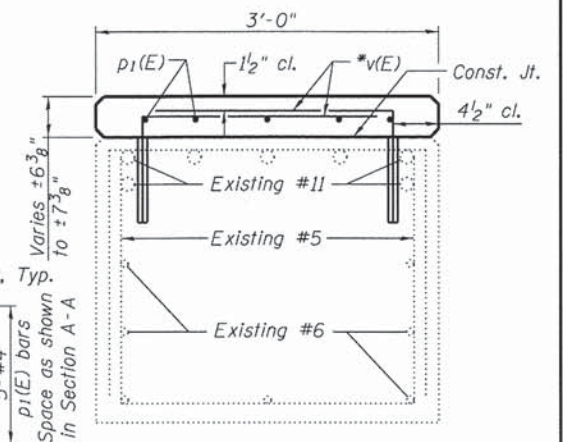


PLAN

(HMA wearing surface and blockouts not shown)



Burn existing dowel rods flush with existing pier surface. Grind existing dowel rods smooth and seal with epoxy. Cost is included with Precast Prestressed Concrete Deck Beams (33" Depth).



SECTION B-B

Notes:
Anchor bolts shall be cast into the concrete and tied to the mat of new reinforcement. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams (33" Depth).
The permanent retainers, except the temporary wedges, shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.
After the notch or HMA overlay are poured and cured, the steel wedges shall be removed. Concrete Sealer shall be applied to all surfaces of new concrete.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alterante material) of the grade and diameter specified. The corresponding specified grade of AASHTO M134 anchor bolts may be used in lieu of ASTM F1554.
For Retainer Plan and Elevation see Sheet 20 of 24.
After existing beams are removed, the top of the cap shall be inspected for repairs.
All exposed edges shall have standard 3/4" chamfers unless noted otherwise.

**BILL OF MATERIAL
ONE PIER**

Bar	No.	Size	Length	Shape	
v(E)	62	#4	3'-5"	□	
p1(E)	5	#4	30'-8"	—	
Reinforcement Bars, Epoxy Coated				Pound	240
Concrete Structures				Cu. Yd.	2.0
Concrete Sealer				Sq. Ft.	132

FILE NAME =	USER NAME = seb	DESIGNED - RJP	REVISED -
Dr:\13\files\138817\85\Plans\Current\Substr...	signature.dgn	CHECKED - ADL	REVISED -
	PLOT SCALE = 0.166667' / in.	DRAWN -	REVISED -
	PLOT DATE = 8/14/2014	CHECKED - ADL	REVISED -

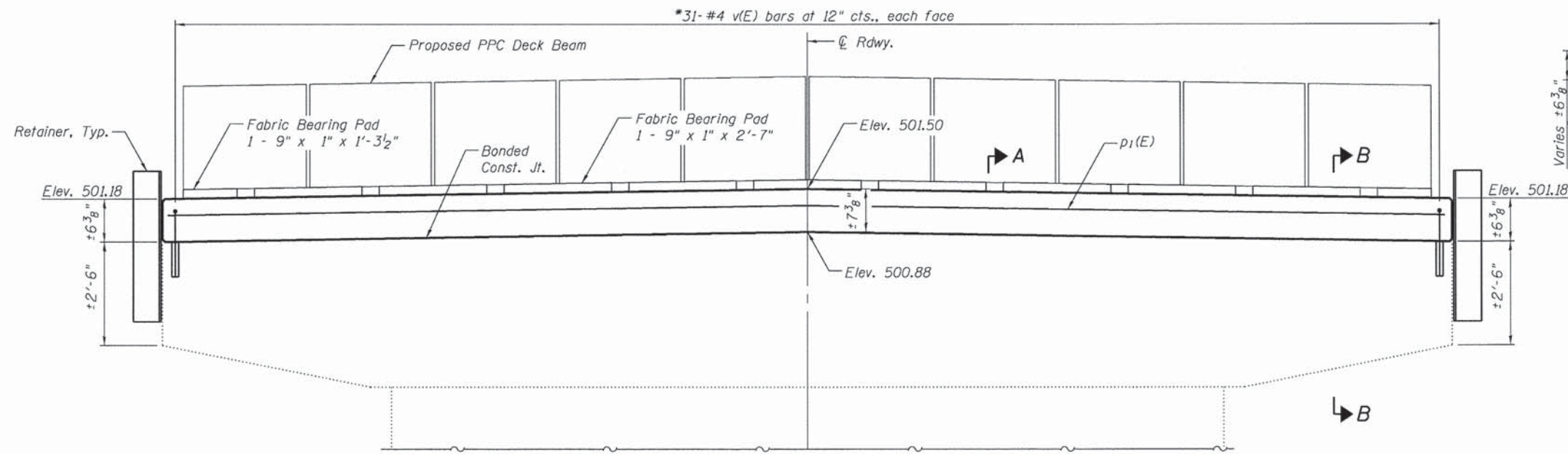
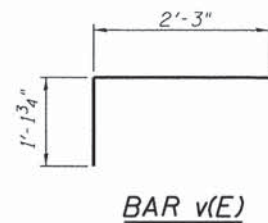
**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**PIER 2
STRUCTURE NO. 001-3234**

SHEET NO. 22 OF 24 SHEETS

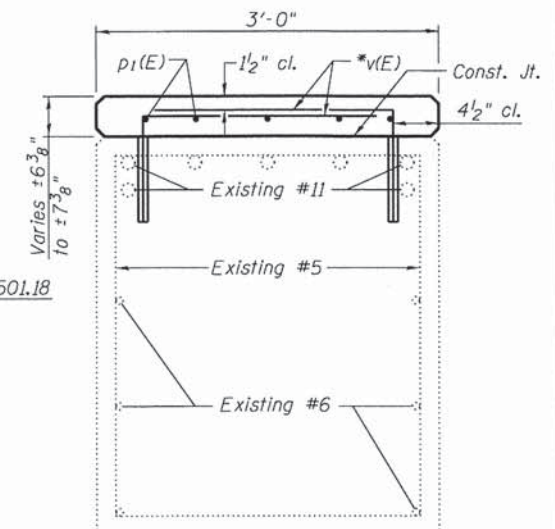
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	36
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

Klingner & Associates P.C.

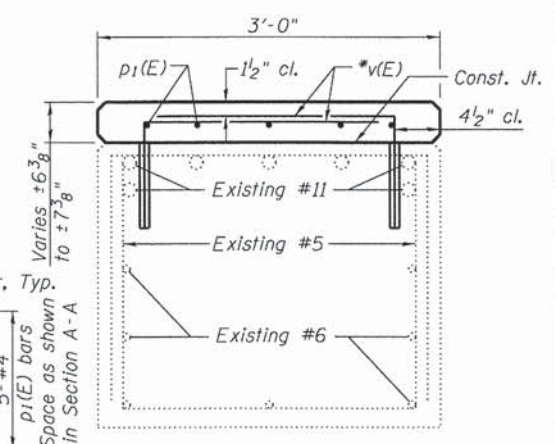


ELEVATION
(Looking South)
(HMA wearing surface and blockouts not shown)

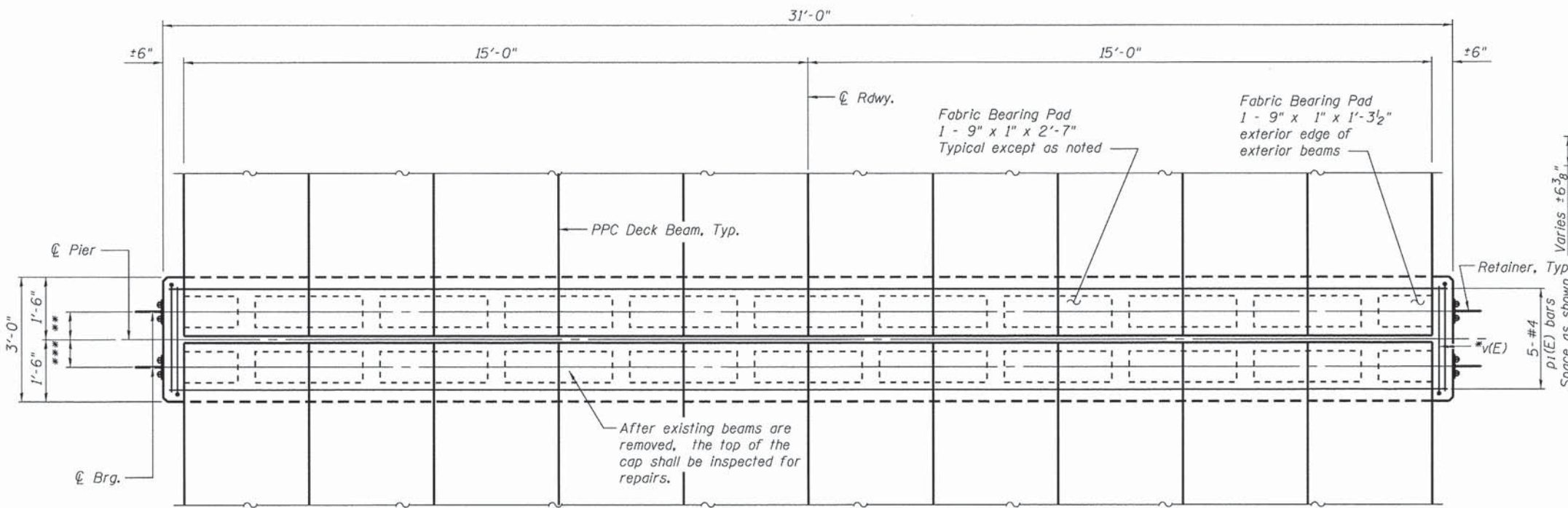
*Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.



SECTION A-A



SECTION B-B



PLAN
(HMA wearing surface and blockouts not shown)

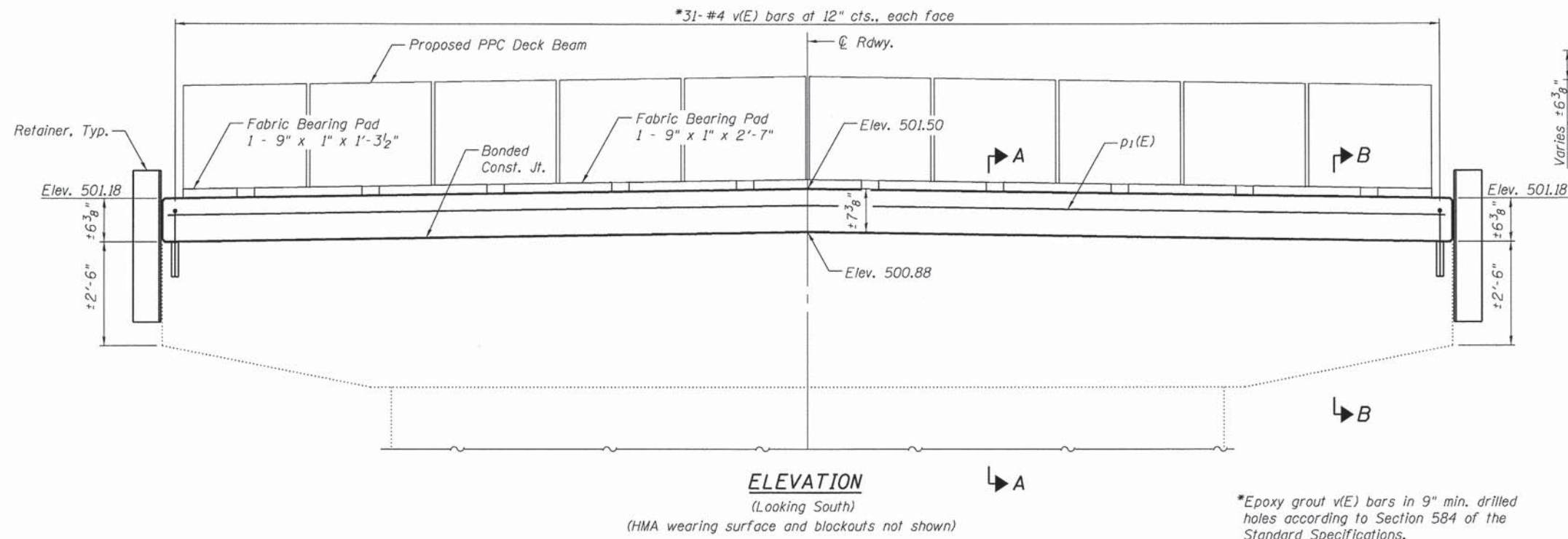
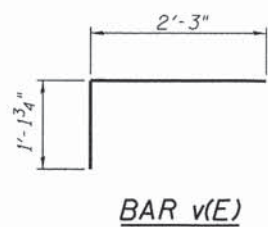
**BILL OF MATERIAL
ONE PIER**

Bar	No.	Size	Length	Shape
v(E)	62	#4	3'-5"	┌
p1(E)	5	#4	30'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	240
Concrete Structures			Cu. Yd.	2.0
Concrete Sealer			Sq. Ft.	132

- **8 3/4" - Pier 3
- 8 3/4" - Pier 5
- 8 6" - Pier 7
- ***8 1/8" - Pier 3
- 8 3/4" - Pier 5
- 8 3/4" - Pier 7

Notes:
 Anchor bolts shall be cast into the concrete and tied to the mat of new reinforcement. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams (33" Depth).
 The permanent retainers, except the temporary wedges, shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
 Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.
 After the notch or HMA overlay are poured and cured, the steel wedges shall be removed. Concrete Sealer shall be applied to all surfaces of new concrete.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alterante material) of the grade and diameter specified. The corresponding specified grade of AASHTO M134 anchor bolts may be used in lieu of ASTM F1554.
 For Retainer Plan and Elevation see Sheet 20 of 24.
 After existing beams are removed, the top of the cap shall be inspected for repairs. All exposed edges shall have standard 3/4" chamfers unless noted otherwise.

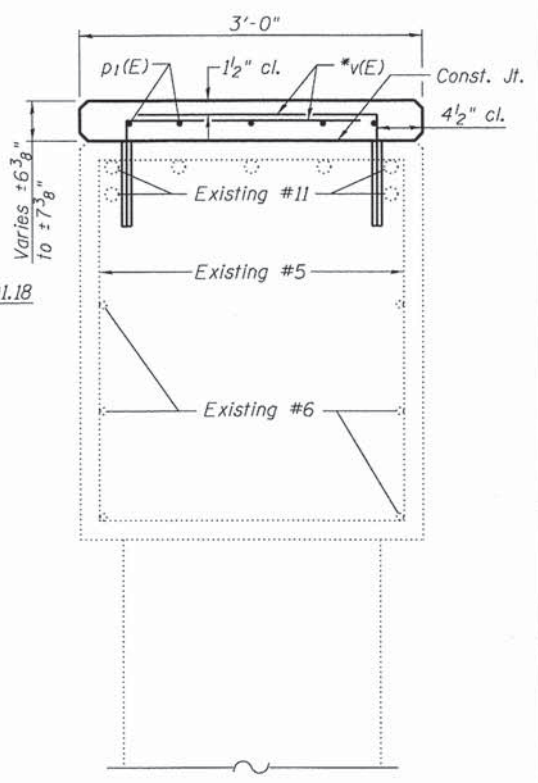




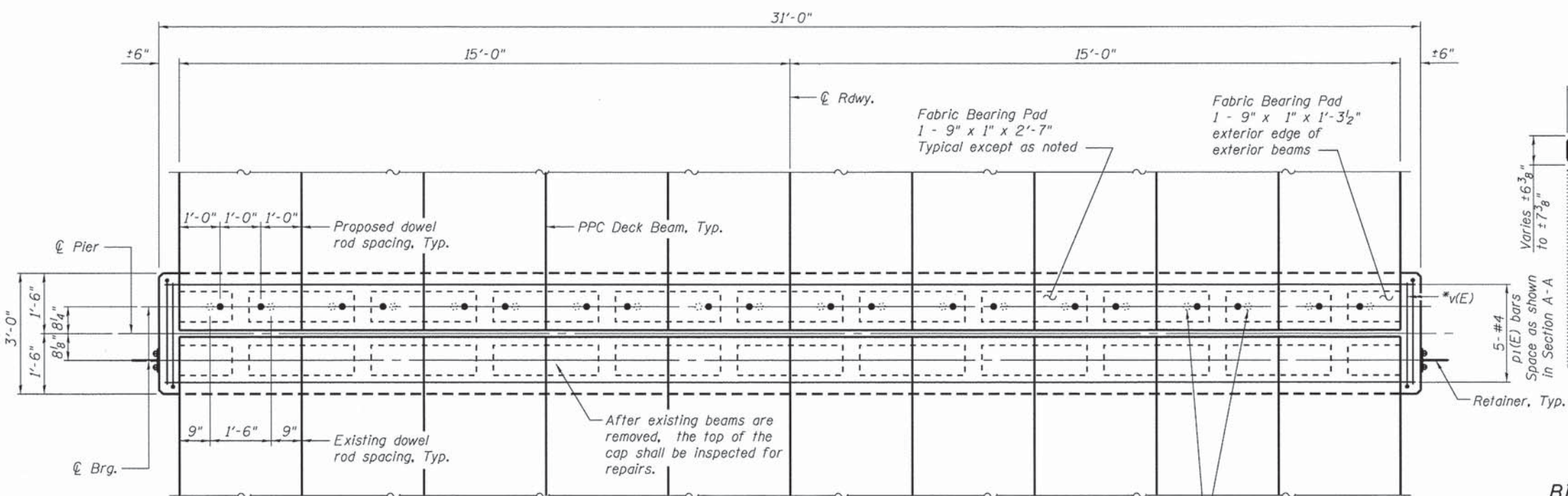
ELEVATION

(Looking South)
(HMA wearing surface and blockouts not shown)

*Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.

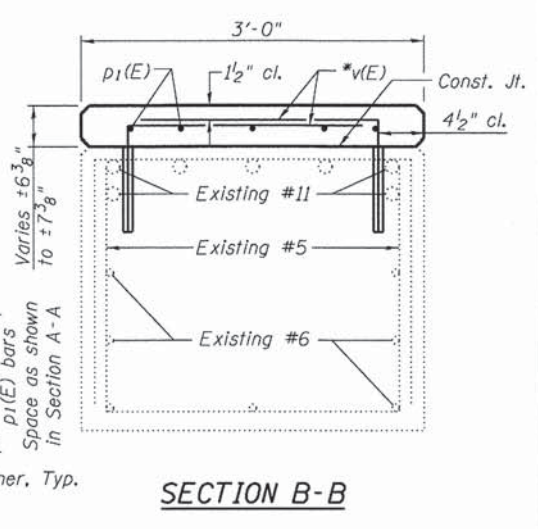


SECTION A-A



PLAN

(HMA wearing surface and blockouts not shown)



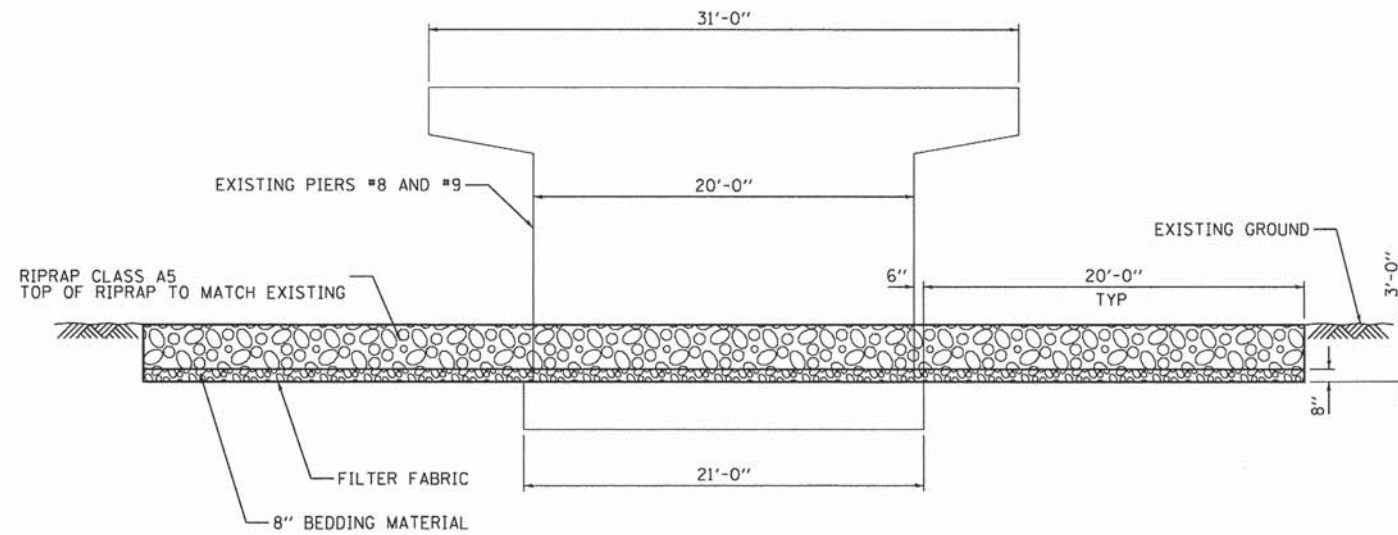
SECTION B-B

Notes:
 Anchor bolts shall be cast into the concrete and tied to the mat of new reinforcement. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams (33" Depth).
 The permanent retainers, except the temporary wedges, shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
 Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.
 After the notch or HMA overlay are poured and cured, the steel wedges shall be removed. Concrete Sealer shall be applied to all surfaces of new concrete.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alterante material) of the grade and diameter specified. The corresponding specified grade of AASHTO M134 anchor bolts may be used in lieu of ASTM F1554.
 For Retainer Plan and Elevation see Sheet 20 of 24.
 After existing beams are removed, the top of the cap shall be inspected for repairs.
 All exposed edges shall have standard 3/4" chamfers unless noted otherwise.

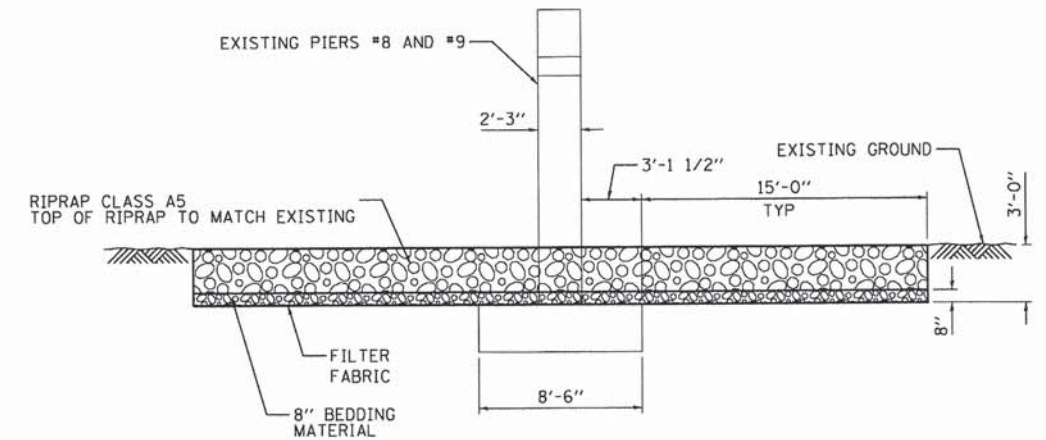
Burn existing dowel rods flush with existing pier surface. Grind existing dowel rods smooth and seal with epoxy. Cost is included with Precast Prestressed Concrete Deck Beams (33" Depth).

**BILL OF MATERIAL
ONE PIER**

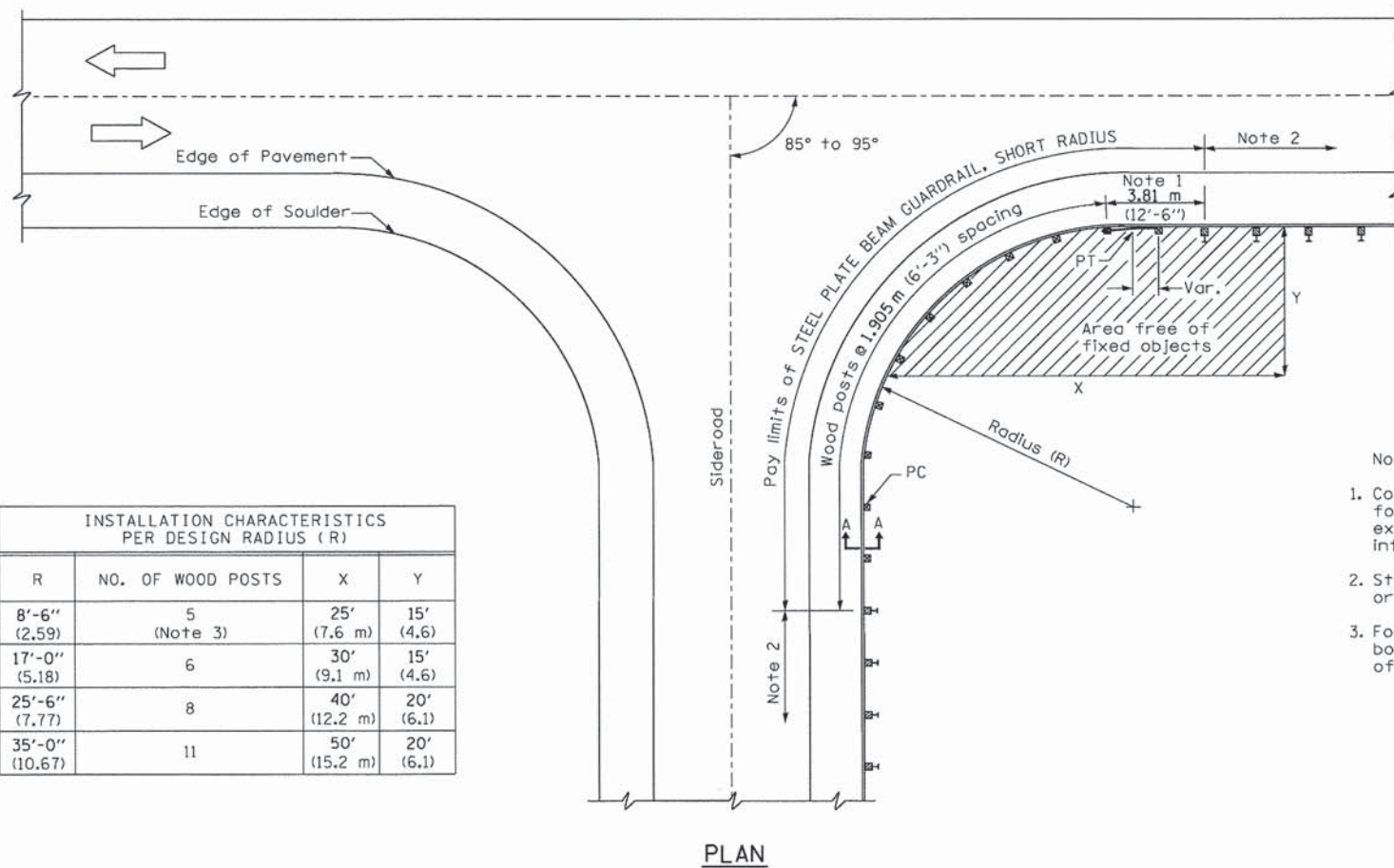
Bar	No.	Size	Length	Shape
v(E)	62	#4	3'-5"	□
p1(E)	5	#4	30'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	240
Concrete Structures			Cu. Yd.	2.0
Concrete Sealer			Sq. Ft.	132



TYPICAL - PIER FACE RIPRAP SCOUR REPAIR
NOT TO SCALE



TYPICAL - PIER END RIPRAP SCOUR REPAIR
NOT TO SCALE

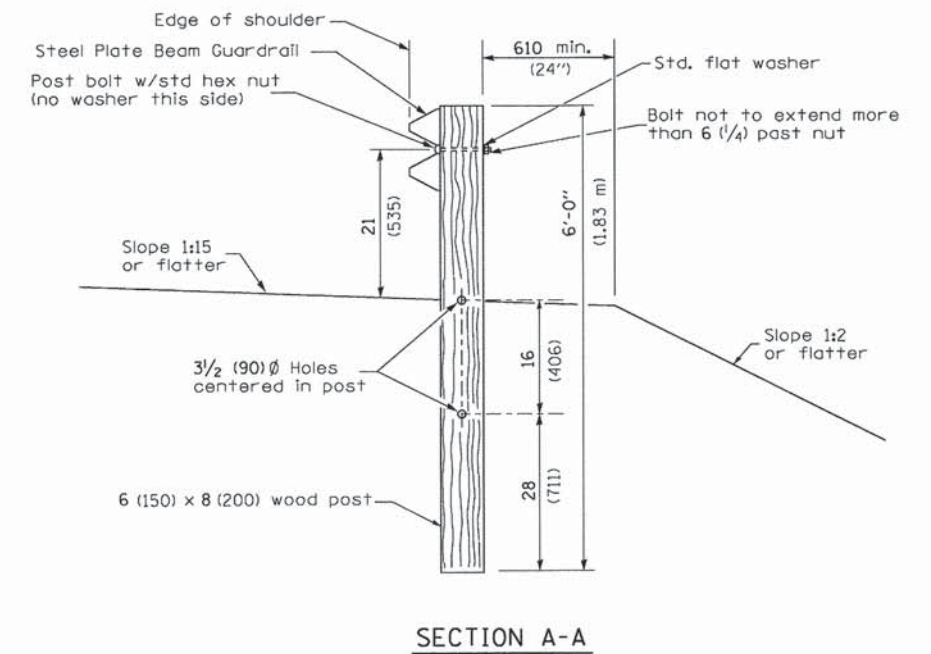


INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (Note 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

PLAN

STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS

- Notes:
- Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
 - Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
 - For the 8'-6" (2.59 m) radius, the rail is not bolted to the post located at the midpoint of the curve.



SECTION A-A

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = 0:\13\files\138017\05\Plans\Current\AC138017-rlt-detail.bdg

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb
PLOT SCALE = 48,0000 ' / in.
PLOT DATE = 8/14/2014

DESIGNED - SEB
DRAWN - BGJ
CHECKED -
DATE -

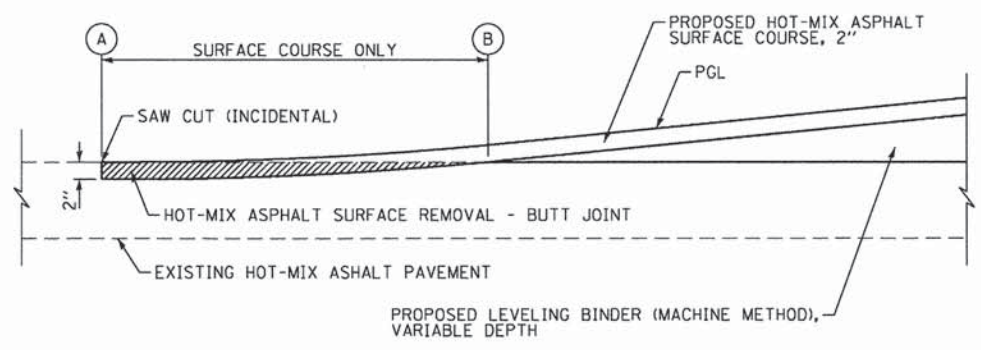
REVISED -
REVISED -
REVISED -
REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

MISCELLANEOUS DETAILS

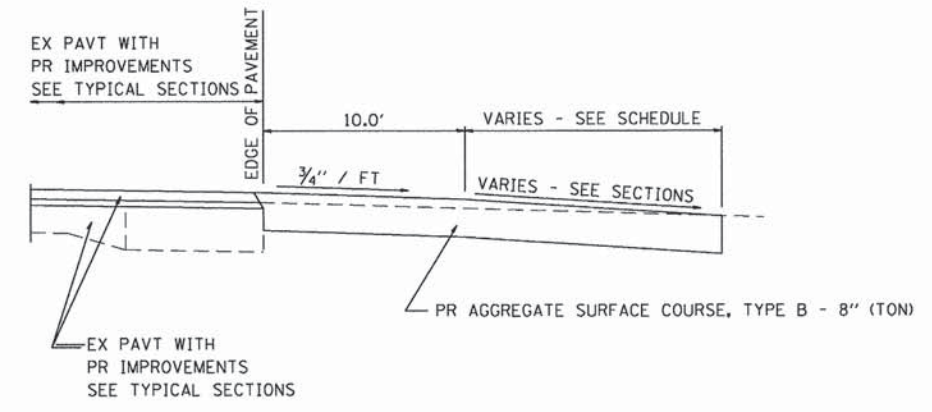
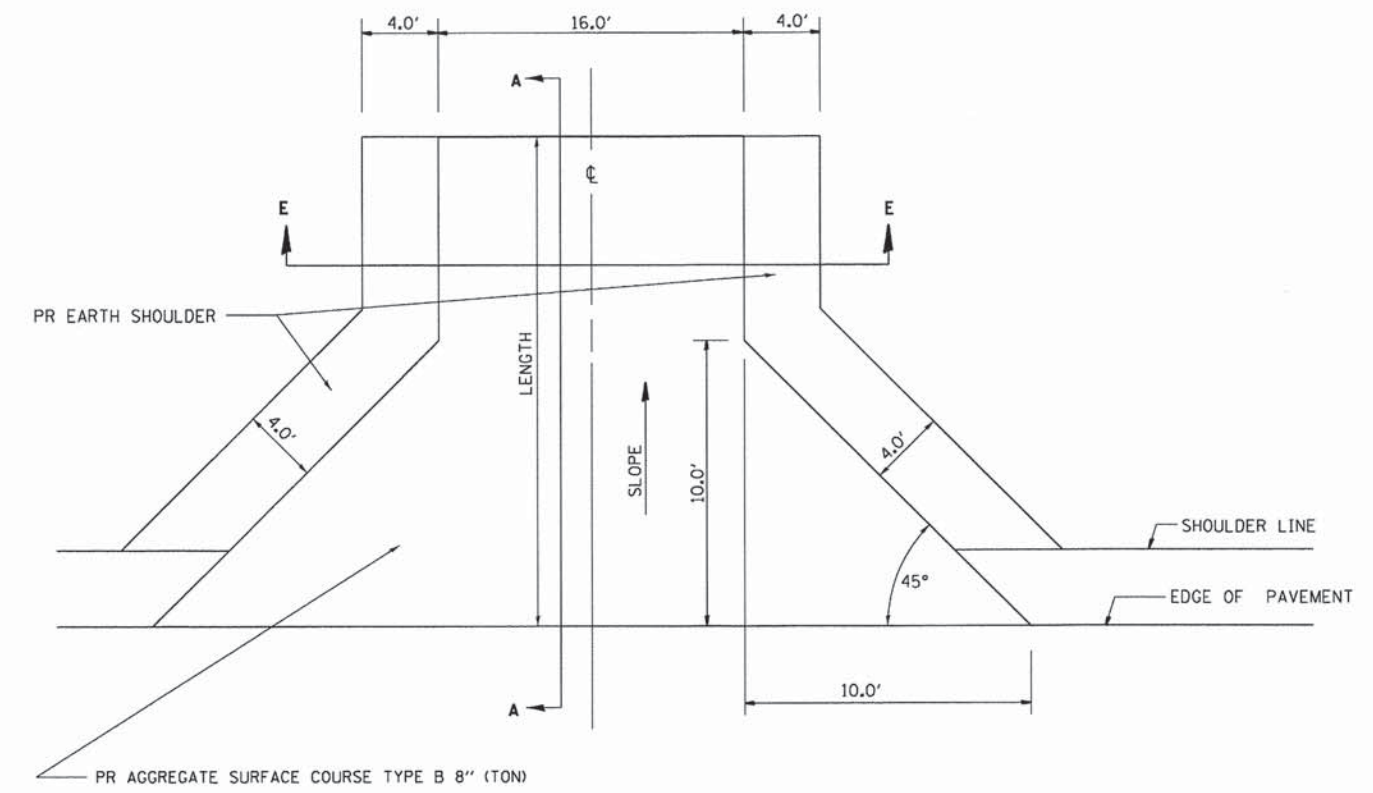
SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	39
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

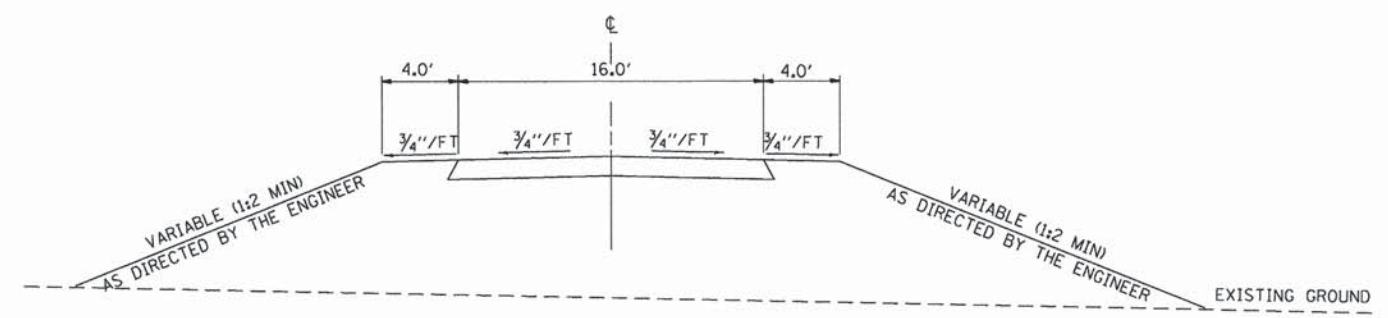


LOCATION	A	B
FAS 1600	177+75.0	178+03.0
FAS 1600	188+40.0	188+13.0

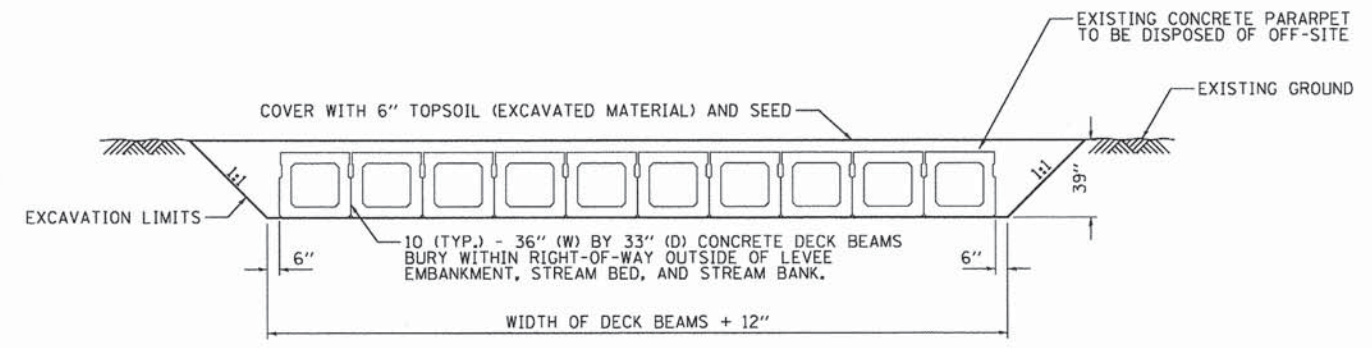
BUTT JOINT DETAIL
NOT TO SCALE



SECTION A - A



SECTION E - E ENTRANCE TYPICAL SECTION



TYPICAL - EXISTING DECK BEAM BURIAL (WITHIN ROW)
NOT TO SCALE
NOTE: CONTRACTORS OPTION

FILE NAME = G:\13\Files\138817\055\Plans\Current\0138817-ahc-deta1.dwg

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb
PLOT SCALE = 40.0000' / 1\"/>

DESIGNED - EBB
DRAWN - EBB
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

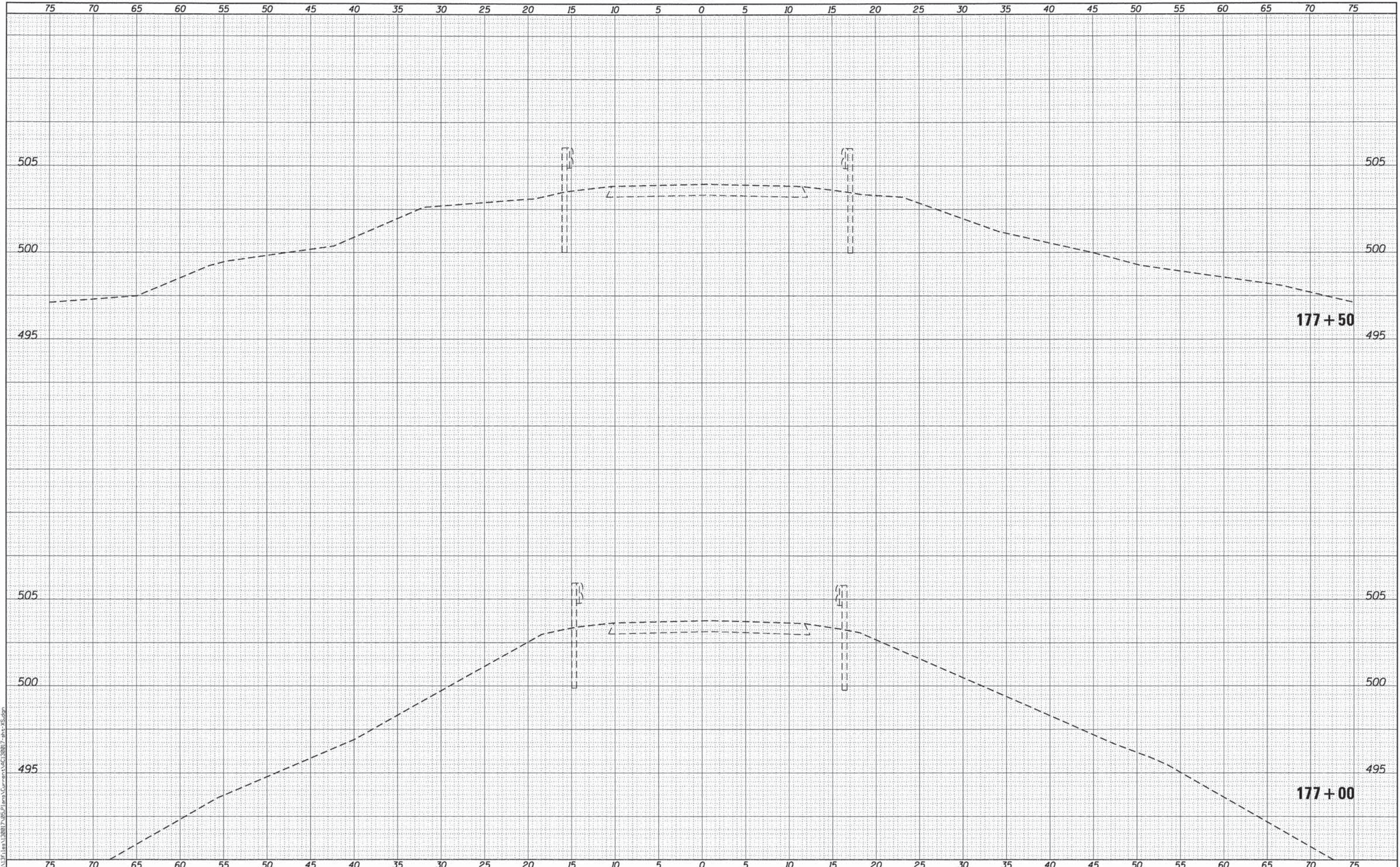
MISCELLANEOUS DETAILS

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	40
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seeb
PLOT SCALE = 10.0000' / 1" =
PLOT DATE = 8/14/2014

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

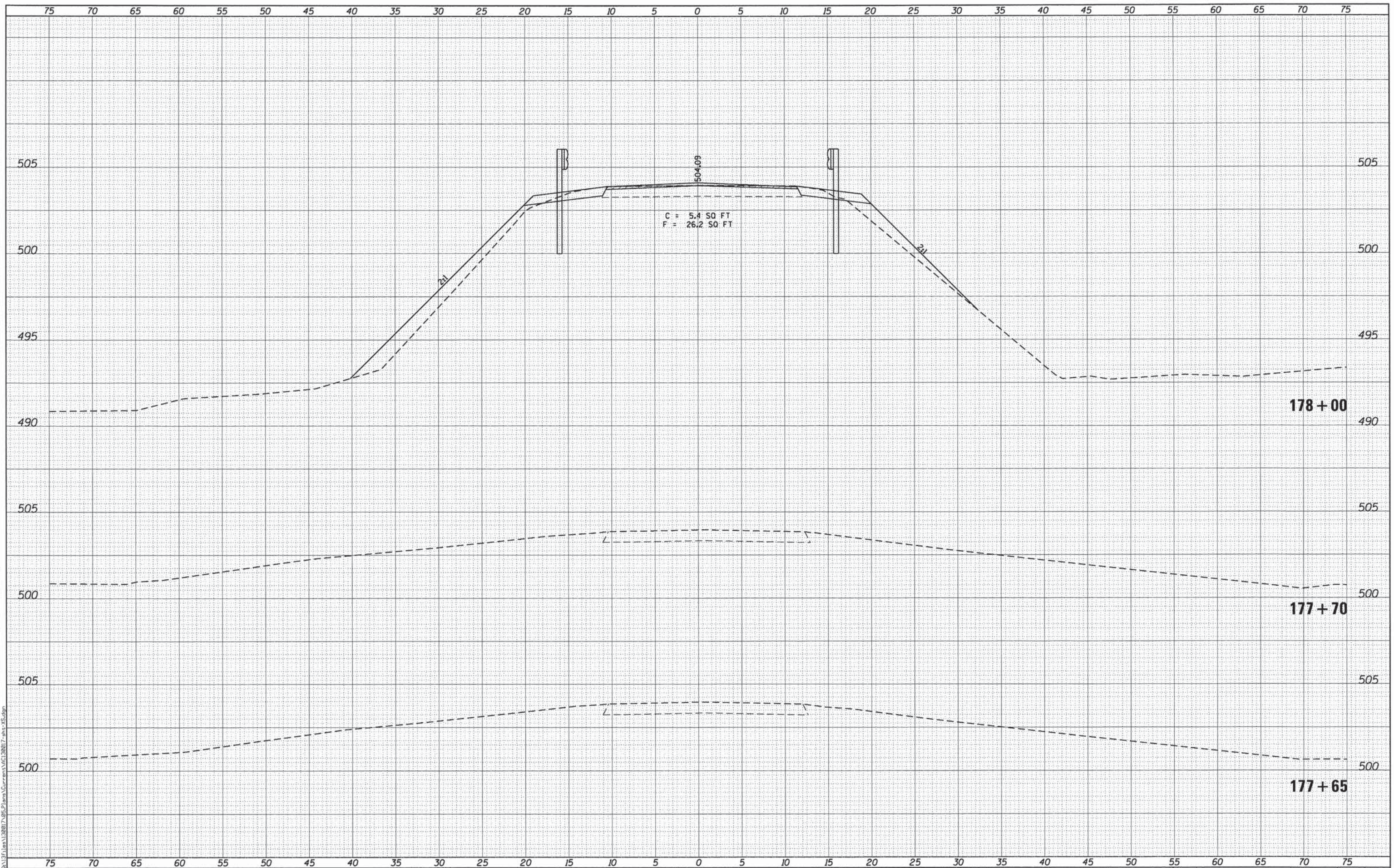
**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**
SCALE: 1"=25' H
1"=2.5' V SHEET 1 OF 20 SHEETS STA. 177+00 TO STA. 177+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	41
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\13071\11-00078-03-BR\177+00\177+00.dwg

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seeb
 PLOT SCALE = 10.0000' / 1" V
 PLOT DATE = 8/14/2014

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

ADAMS COUNTY HIGHWAY DEPARTMENT

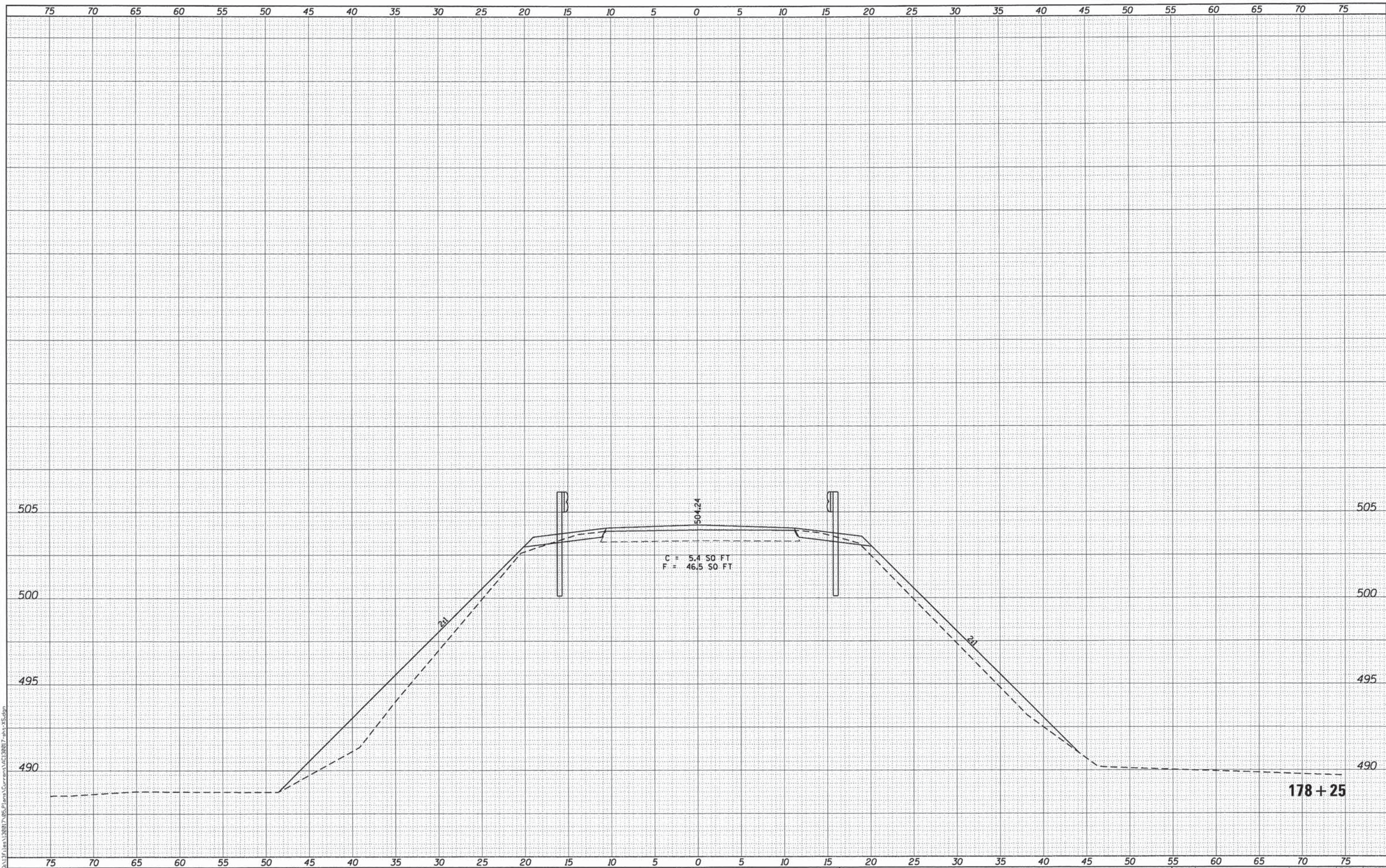
FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS
 SCALE: 1" = 25' H, 1" = 2.5' V SHEET 2 OF 20 SHEETS STA. 177+65 TO STA. 178+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	42
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

FILE NAME = G:\11-00078\11-00078-03-Plans\Current\11-00078-03-25.dgn

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 8/14/2014

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

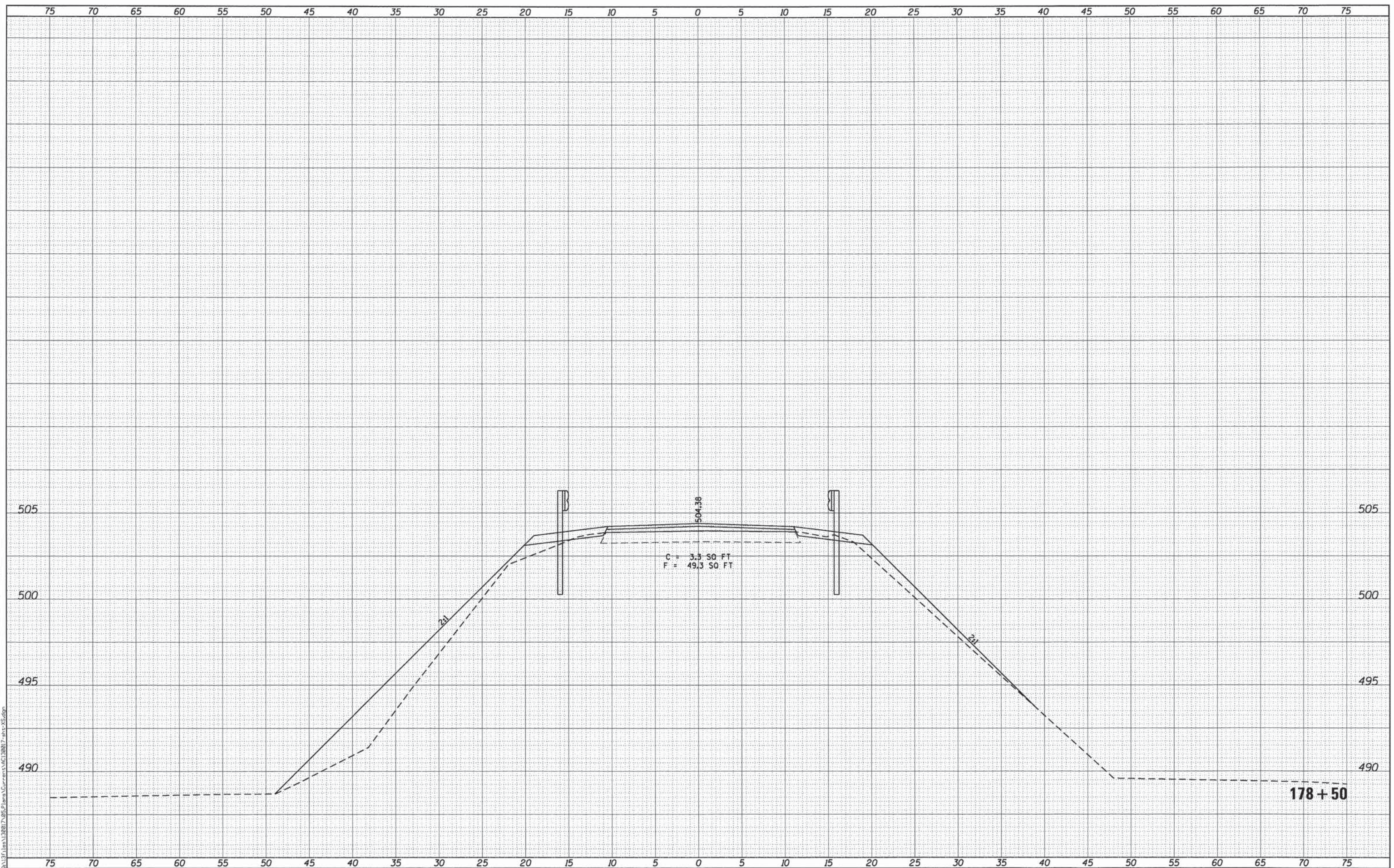
**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**
 SCALE: 1" = 5' H, 1" = 2.5' V SHEET 3 OF 20 SHEETS STA. 178+25 TO STA. 178+25

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	43
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seeb
PLOT SCALE = 10.0000' / 1" V
PLOT DATE = 8/14/2014

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

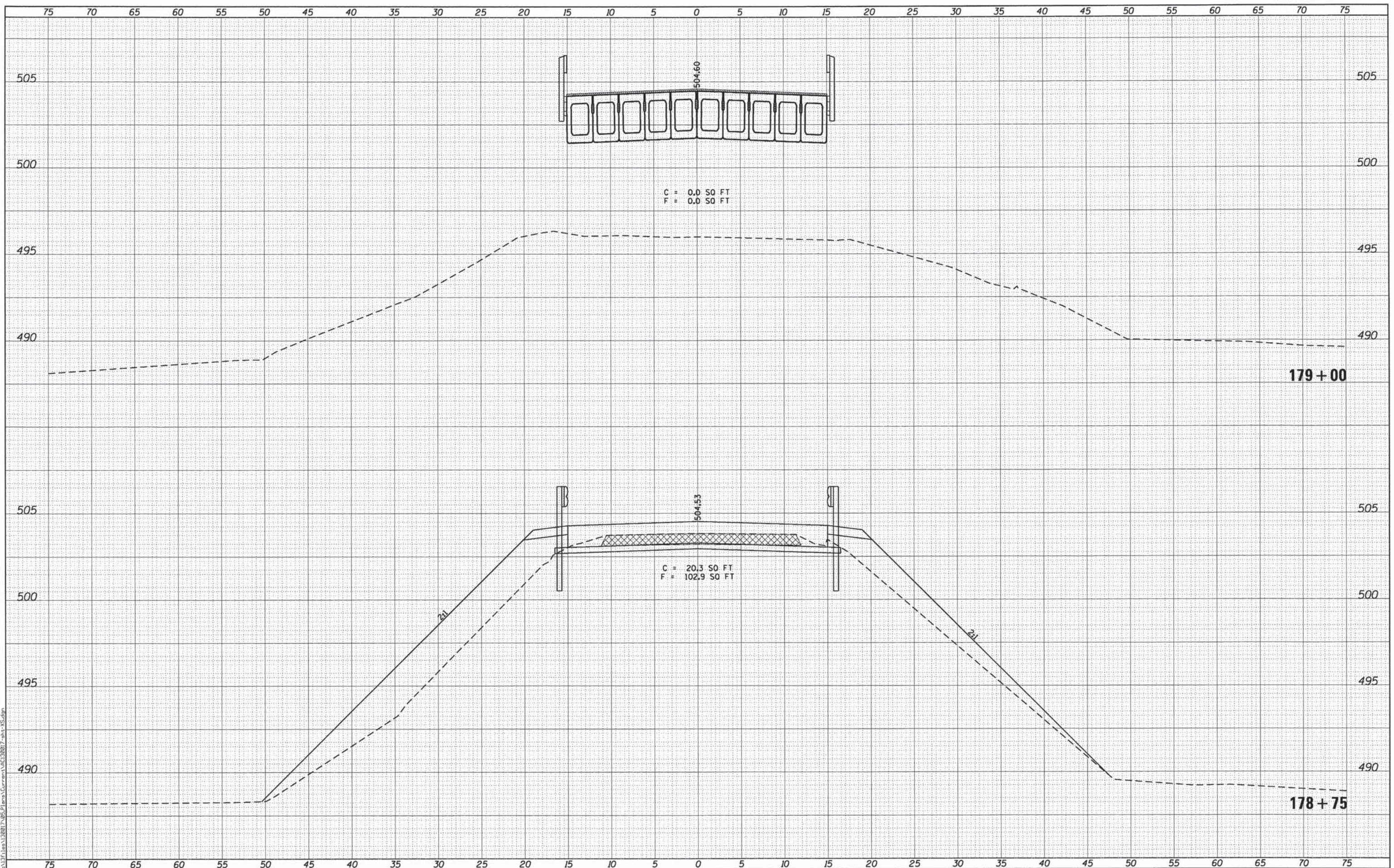
ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS
SCALE: 1" = 20' H, 1" = 2.5' V SHEET 4 OF 20 SHEETS STA. 178+50 TO STA. 178+50

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 44
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

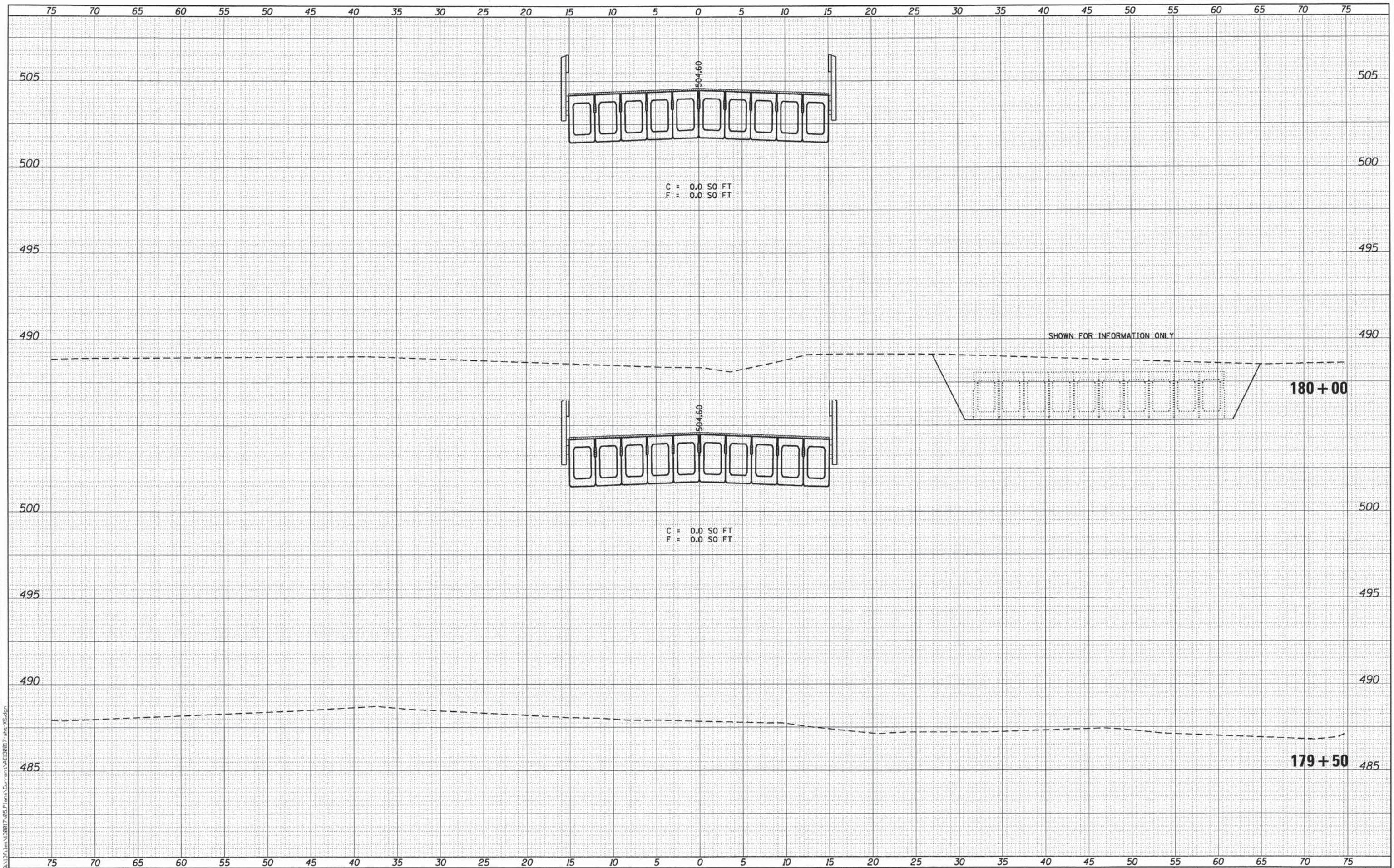
ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS
SCALE: 1" = 25' H, 1" = 2.5' V SHEET 5 OF 20 SHEETS STA. 178+75 TO STA. 179+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 45
			CONTRACT NO. 93624	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

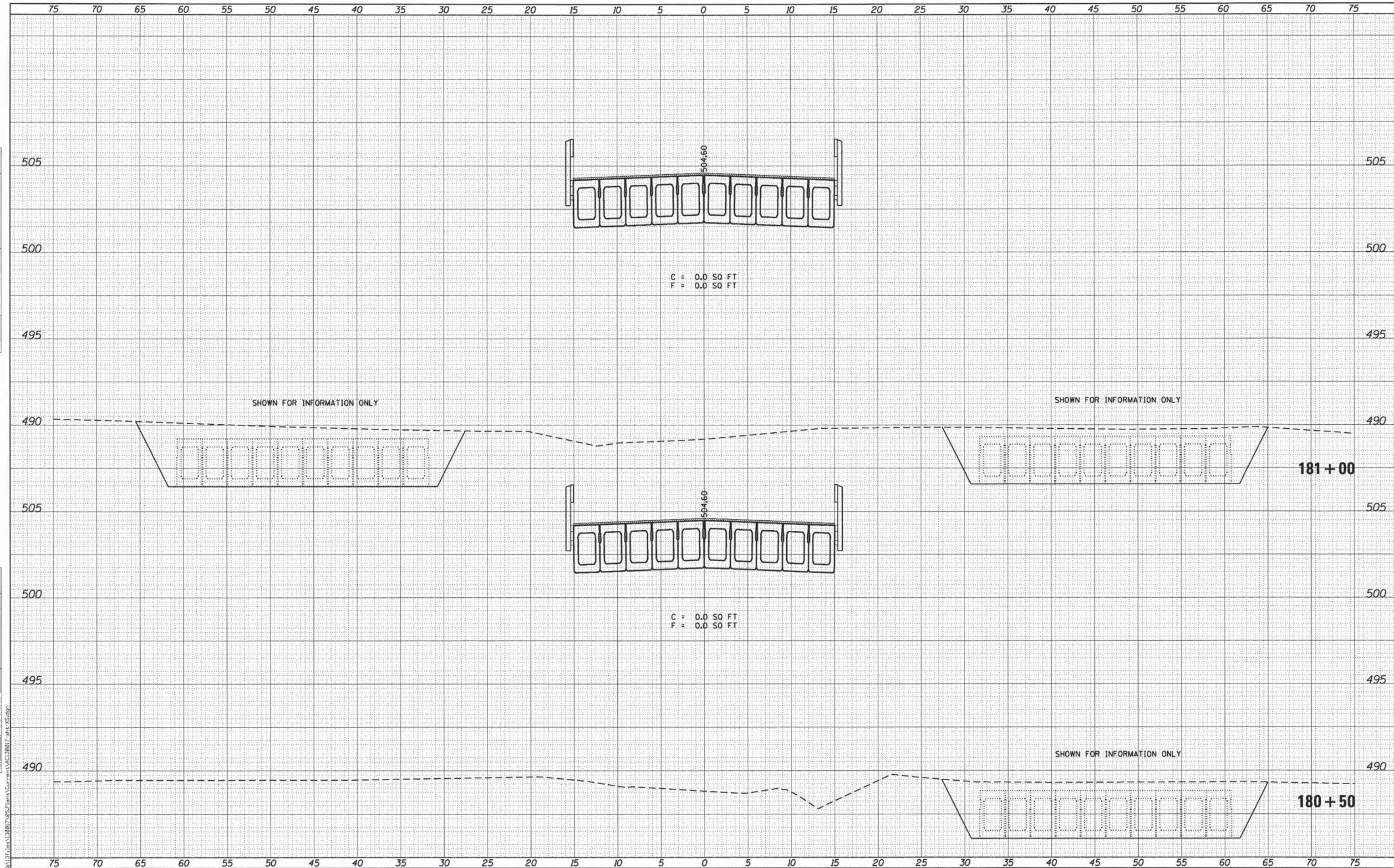
ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS
SCALE: 1"=25' H, 1"=2.5' V SHEET 6 OF 20 SHEETS STA. 179+50 TO STA. 180+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	46
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seeb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

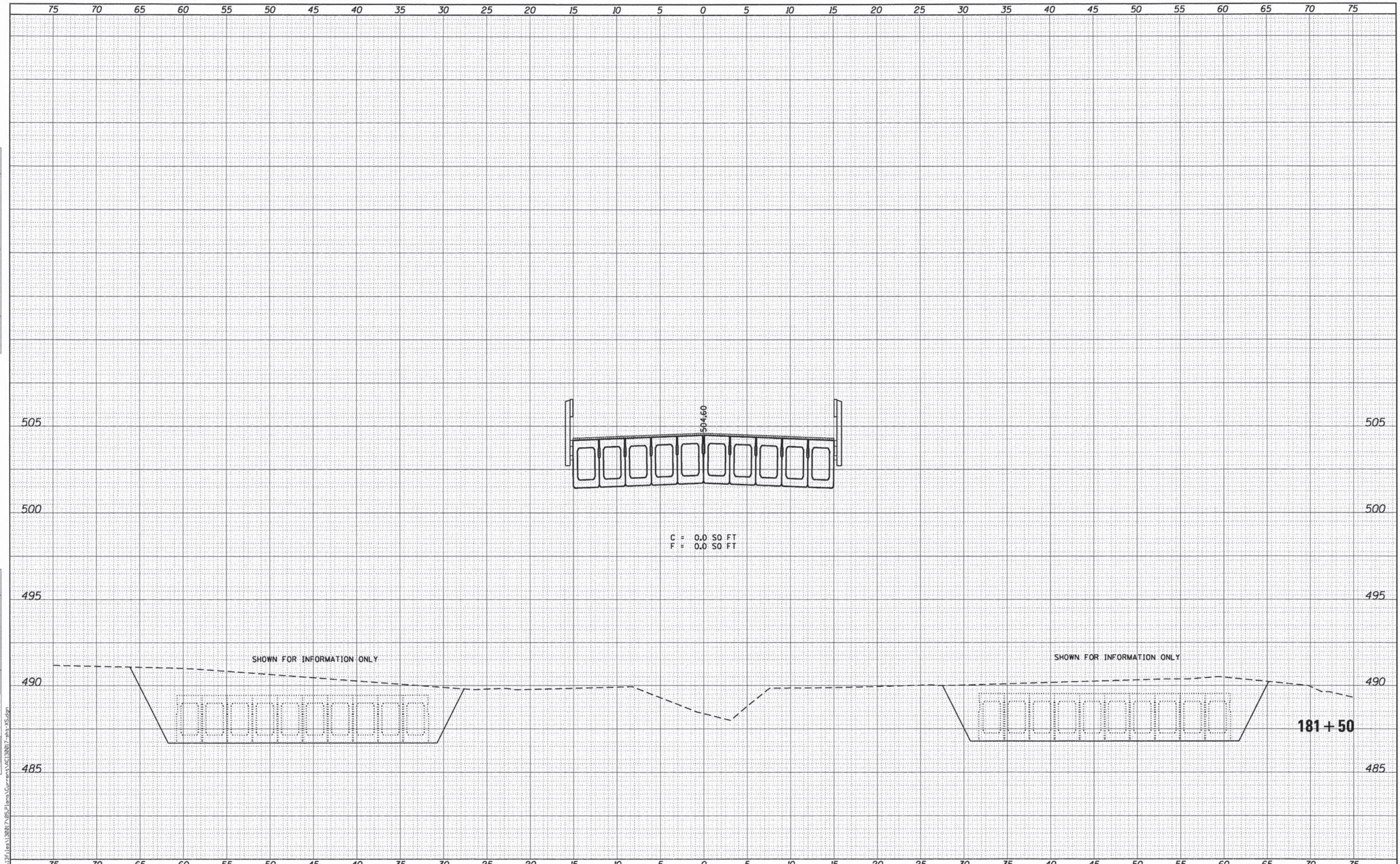
ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS
SCALE: 1" = 25' H, 1" = 2.5' V SHEET 7 OF 20 SHEETS STA. 180+50 TO STA. 181+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 47
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



KLINGNER & ASSOCIATES, P.C.
 Engineers - Architects - Surveyors

USER NAME = aeb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

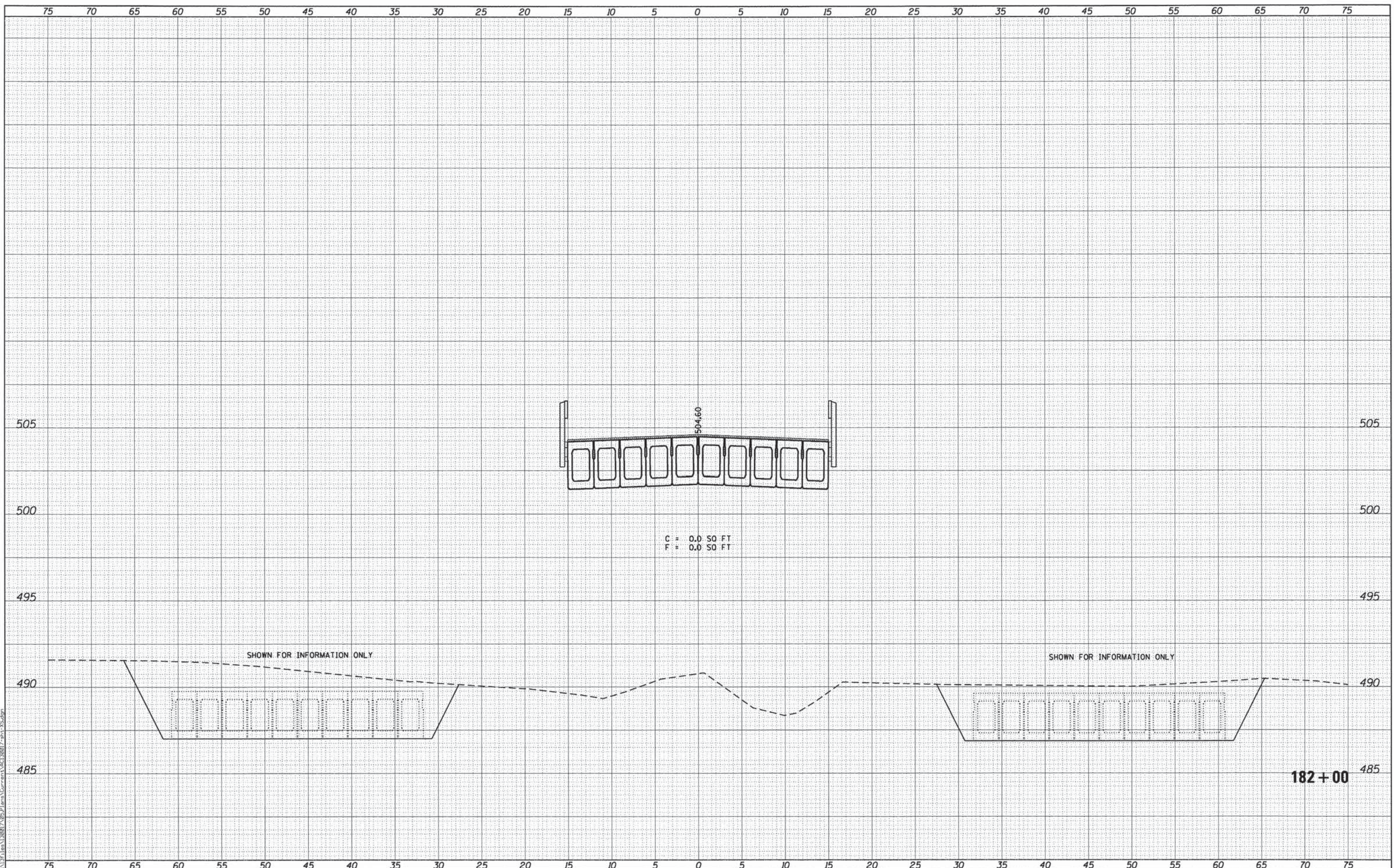
**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

SCALE: 1" = 25' H / 1" = 2.5' V SHEET 8 OF 20 SHEETS STA. 181+50 TO STA. 181+50

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 48
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



KLINGNER & ASSOCIATES, P. C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLLOT SCALE = 10,0000' / 1in.	DRAWN -	REVISED -
PLLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

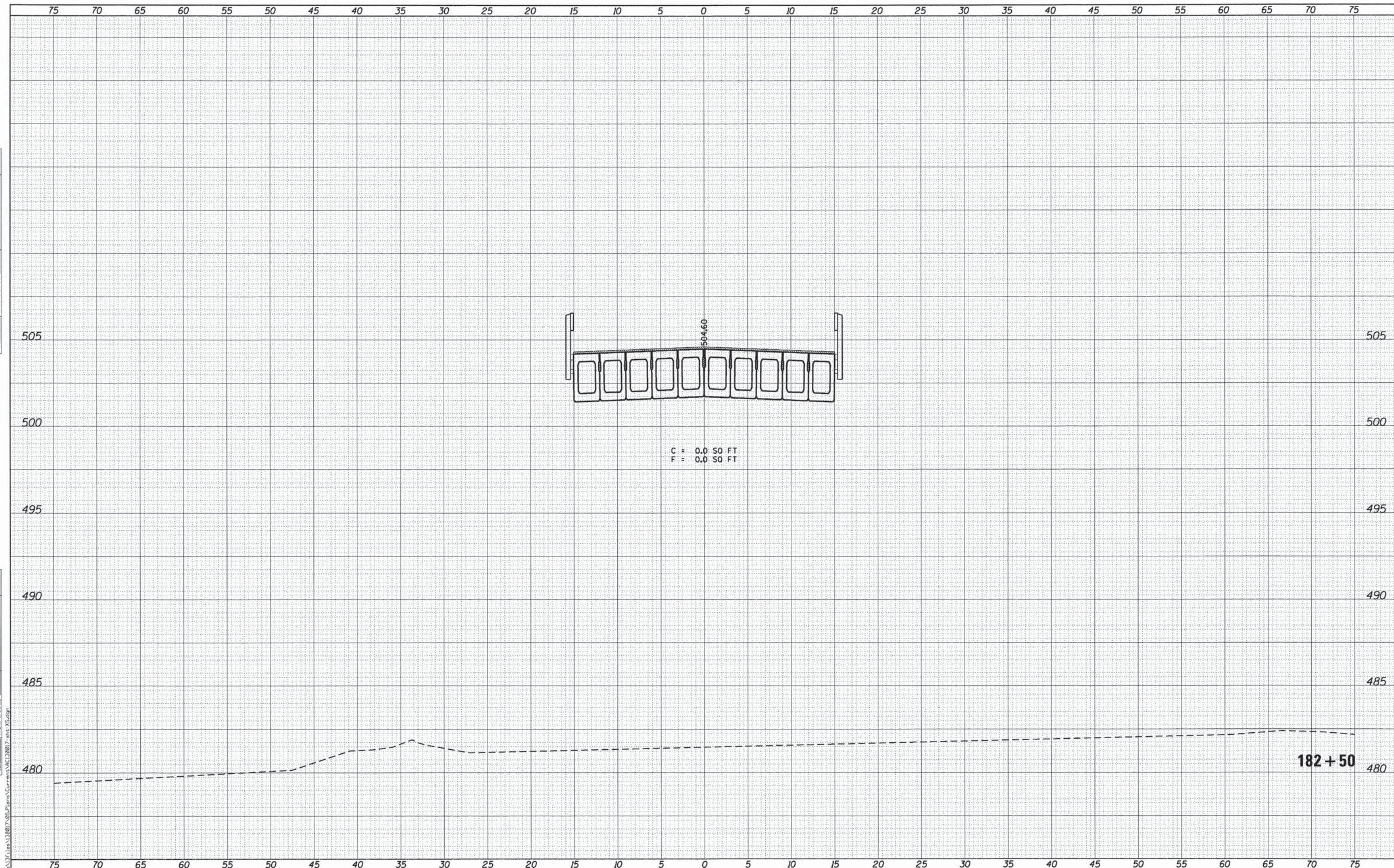
SCALE: 1" = 25' H
1" = 2.5' V

SHEET 9 OF 20 SHEETS STA. 182+00 TO STA. 182+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 49
CONTRACT NO. 93624				ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

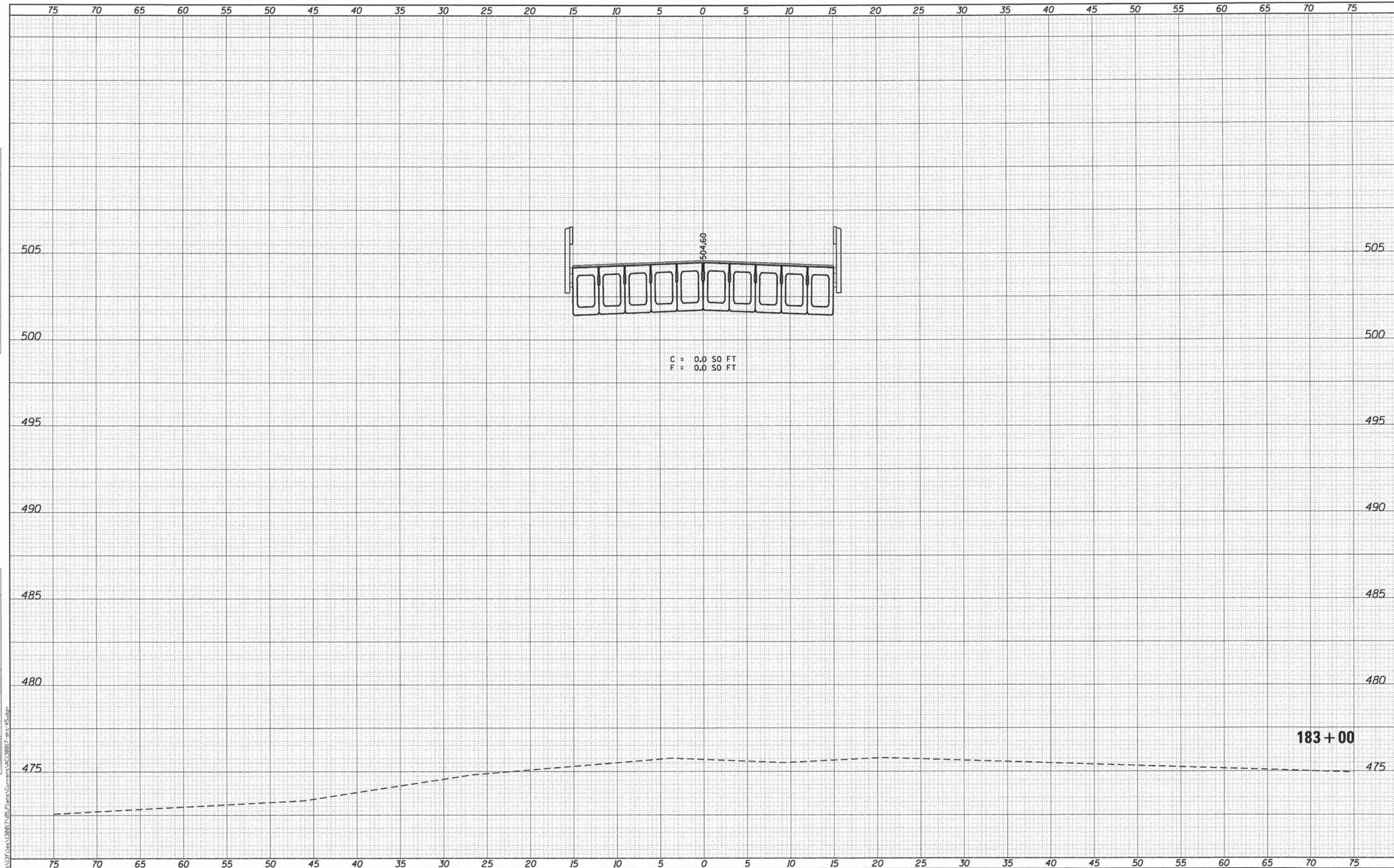
SCALE: 1" = 25' H
1" = 2.5' V

SHEET 10 OF 20 SHEETS STA. 182+50 TO STA. 182+50

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 50
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



C = 0.0 SO FT
F = 0.0 SO FT

183+00

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

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

REVISED -
REVISED -
REVISED -
REVISED -

ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS

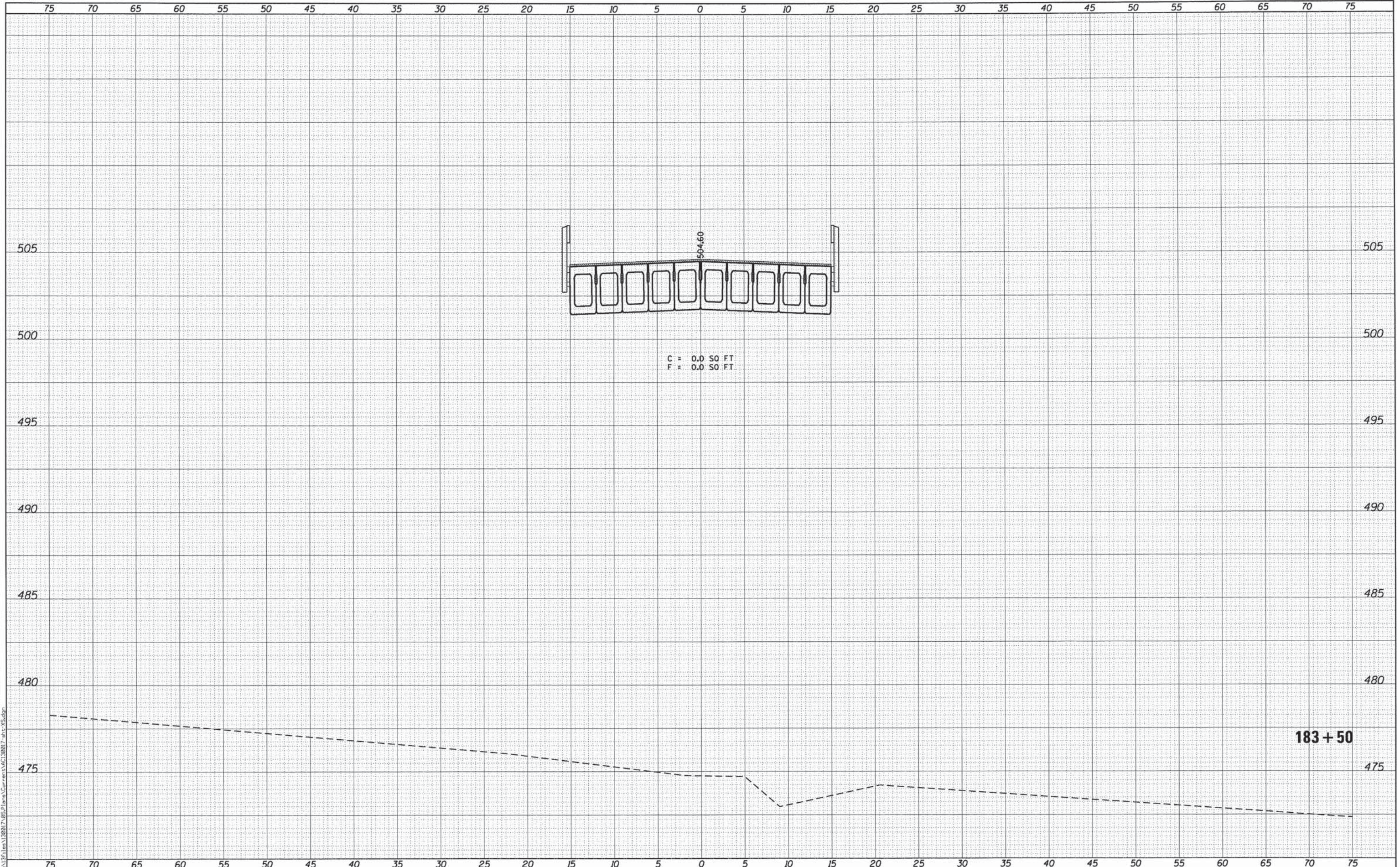
SCALE: 1" = 25' H, 1" = 2.5' V SHEET 11 OF 20 SHEETS STA. 183+00 TO STA. 183+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 51
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\1711es\128817-05-Plans\Current\AC128817-11-13-15.dwg

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



KLINGNER
ASSOCIATES, P. C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

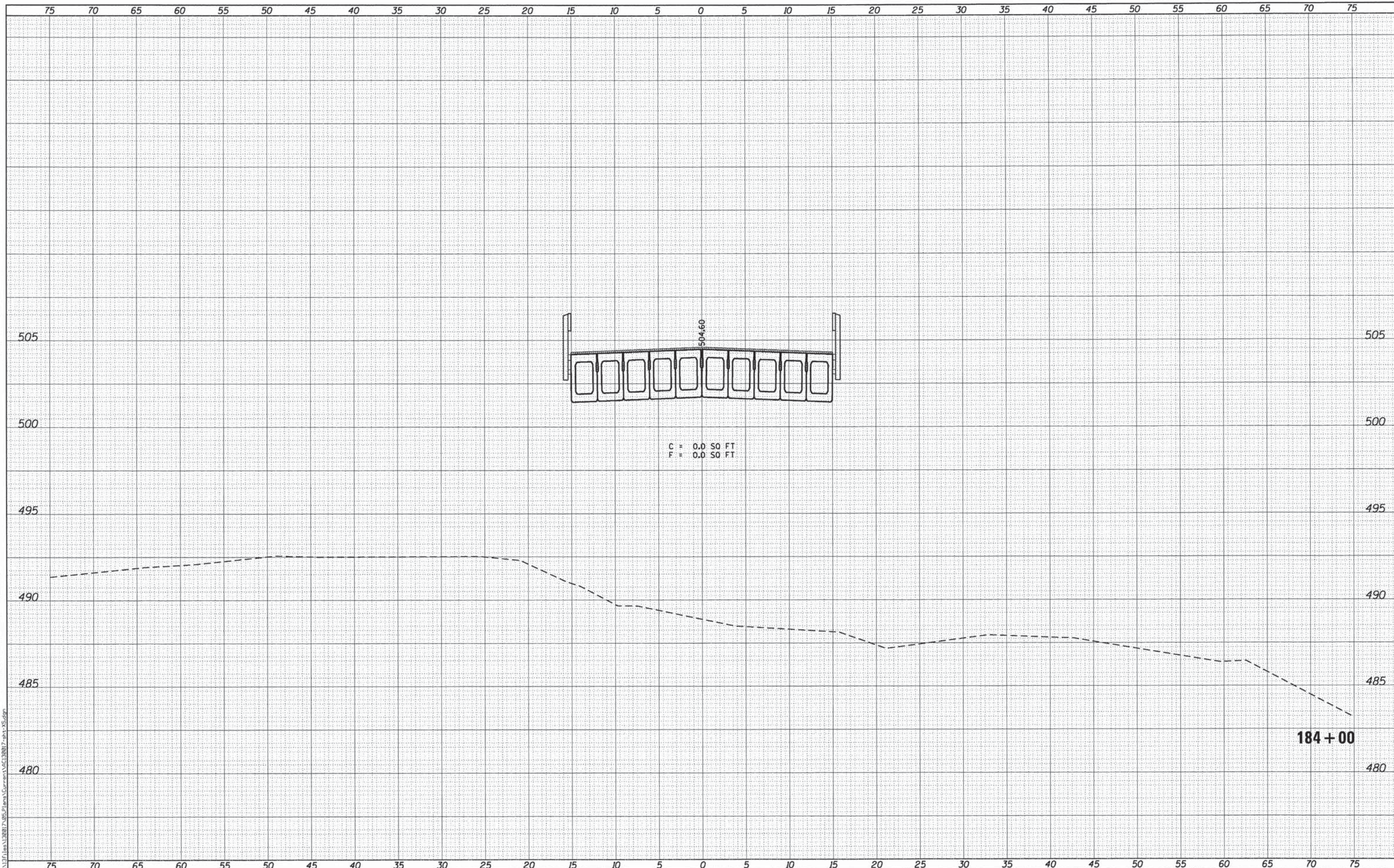
SCALE: 1" = 25' H
1" = 2.5' V

SHEET 12 OF 20 SHEETS STA. 183+50 TO STA. 183+50

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 52
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = eeb	DESIGNED -	REVISED -
PLOT SCALE = 10,0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

SCALE: 1" = 25' H
1" = 2.5' V

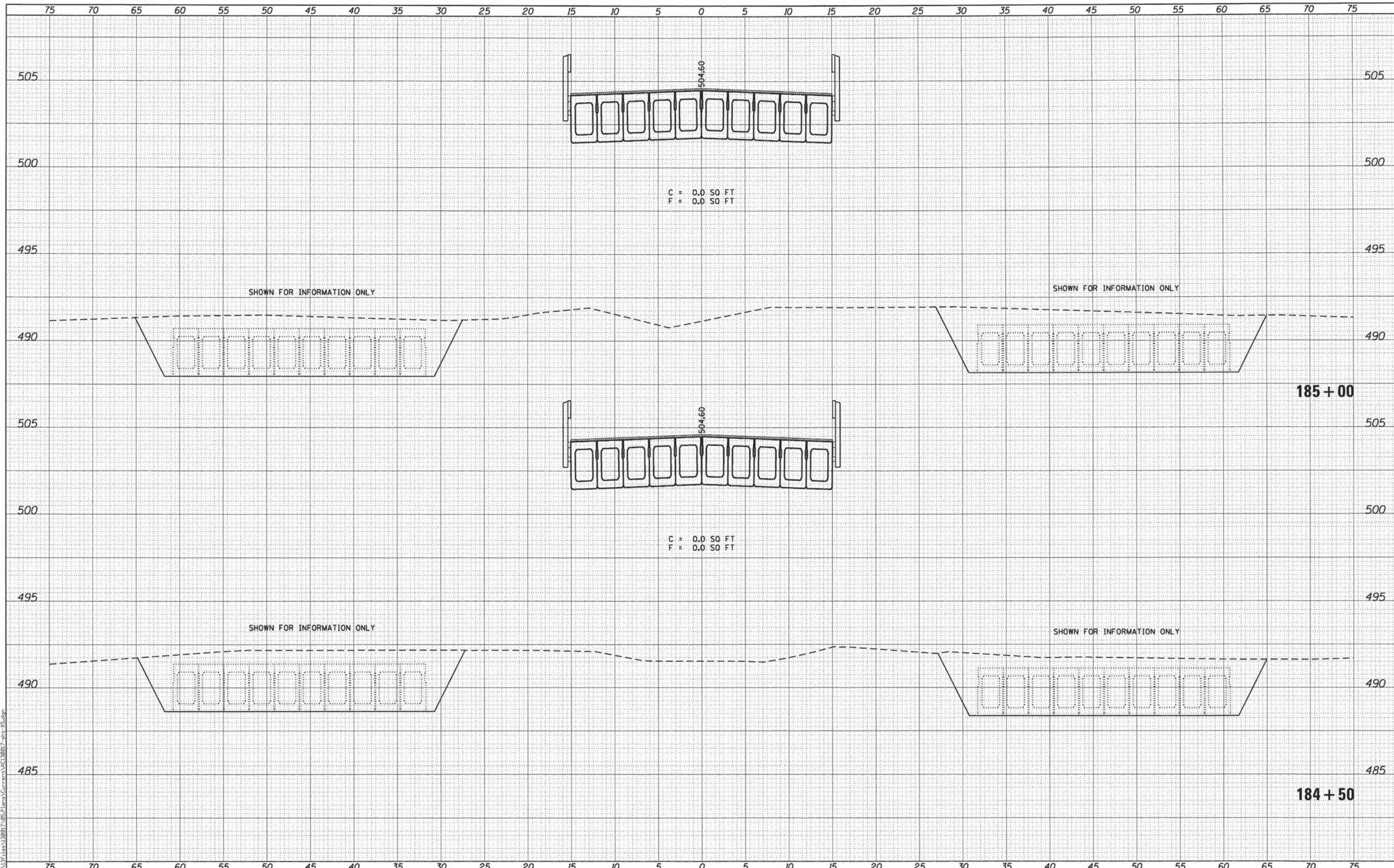
SHEET 13 OF 20 SHEETS STA. 184+00 TO STA. 184+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	53
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

FILE NAME = D:\1315\18400\7\055\Plans\Current\18400\7-gn-25.dgn

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK NO.	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK NO.	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = srb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

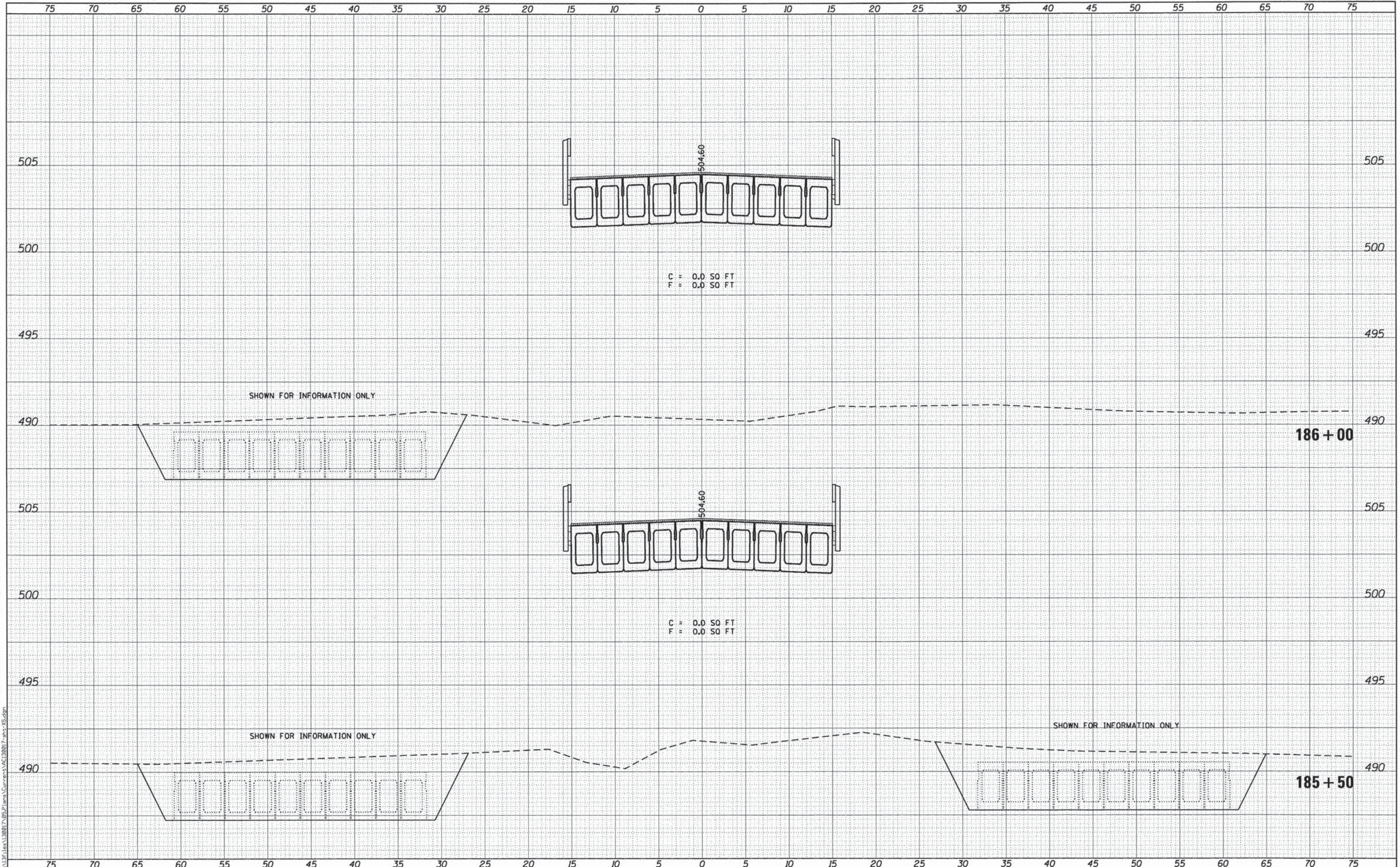
SCALE: 1" = 25' H
1" = 2.5' V

SHEET 14 OF 20 SHEETS STA. 184+50 TO STA. 185+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 54
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
FINAL	
SHEET	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

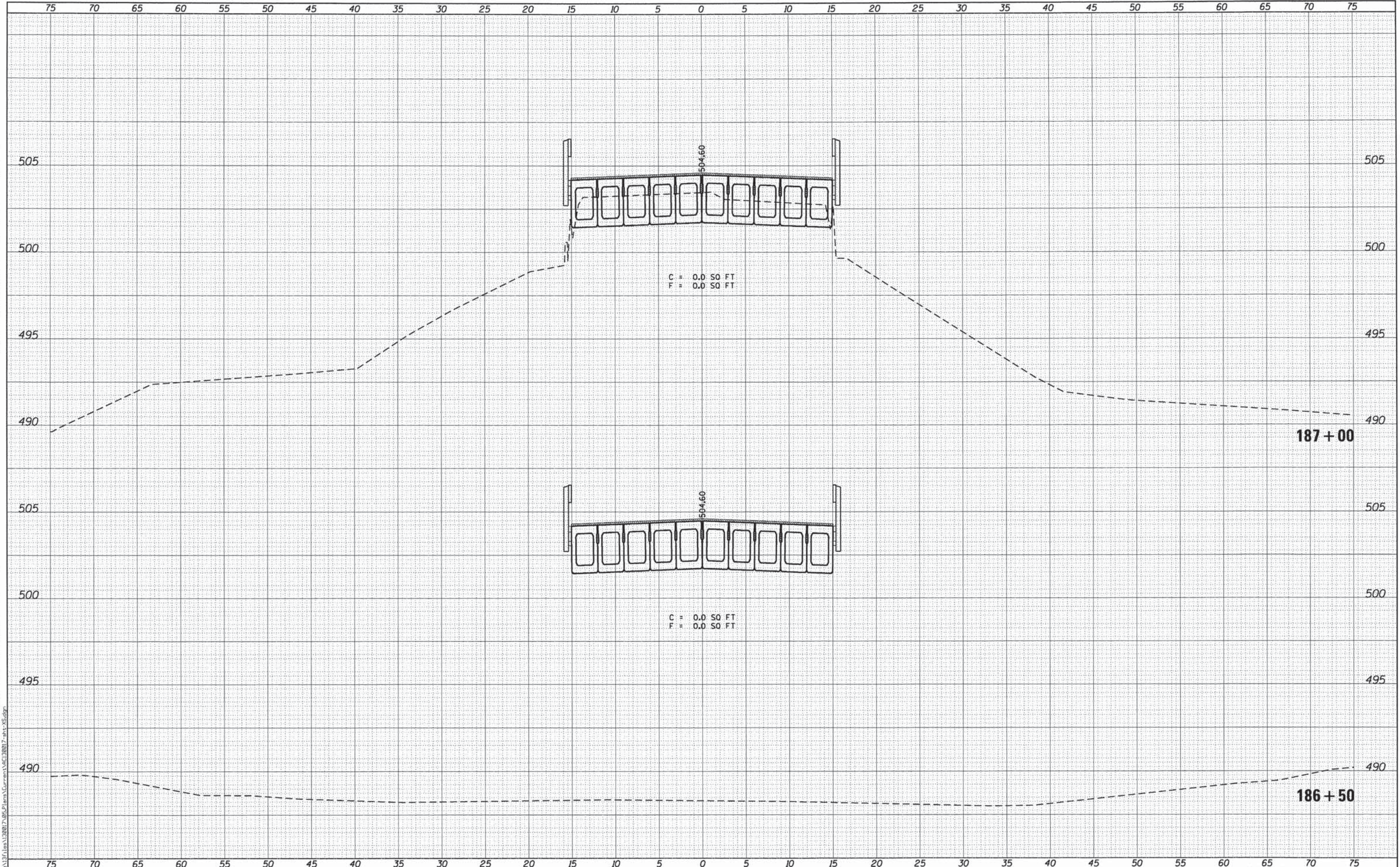
ADAMS COUNTY HIGHWAY DEPARTMENT

FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS
SCALE: 1" = 5' H, 1" = 2.5' V SHEET 15 OF 20 SHEETS STA. 185+50 TO STA. 186+00

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 55
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



KLINGNER
ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 10,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

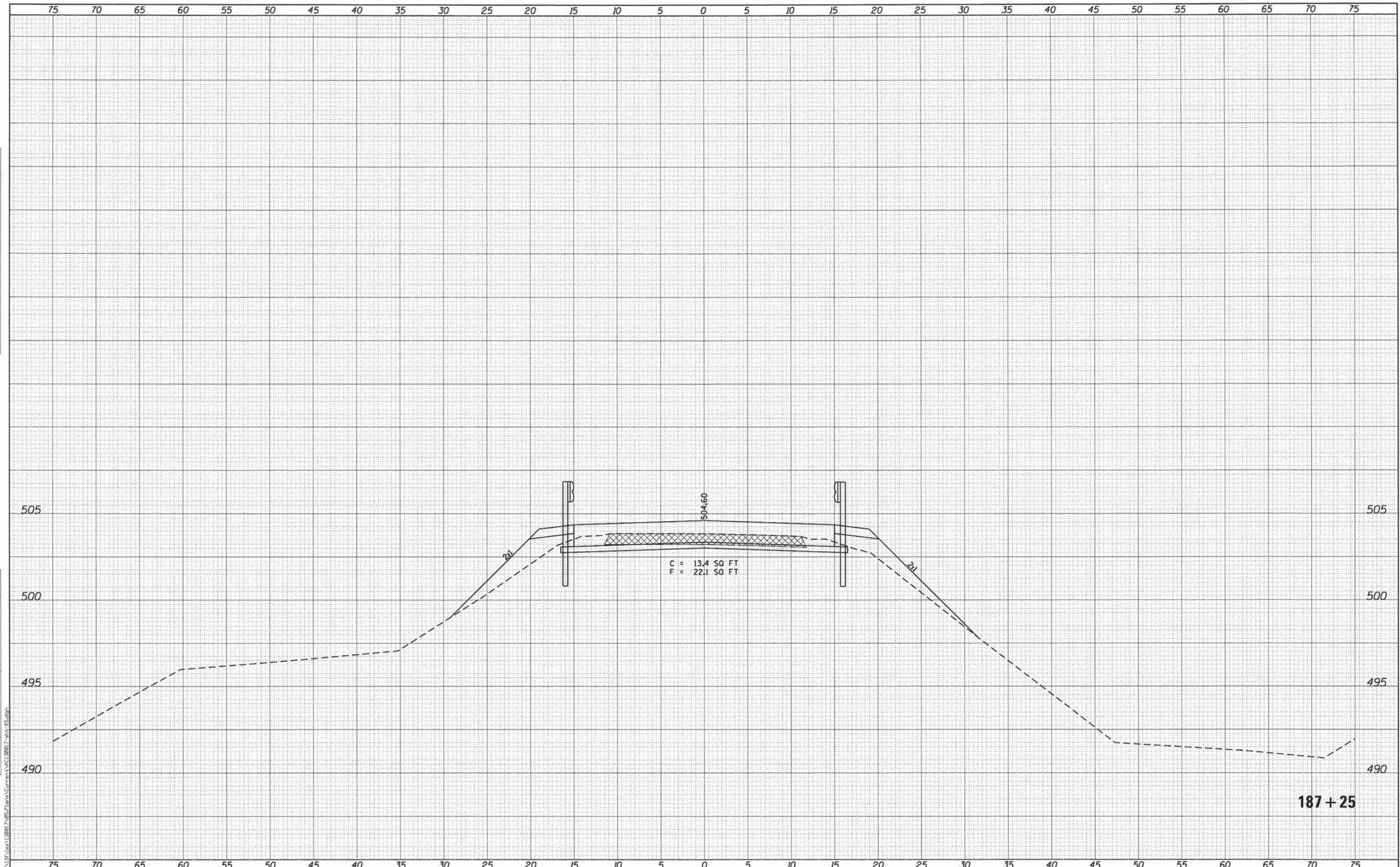
FAS 1600 (CH 7/EAST 500th STREET) CROSS SECTIONS	
SCALE: 1"=25' H 1"=2.5' V	SHEET 16 OF 20 SHEETS
STA. 186+50 TO STA. 187+00	

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 56
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\1317\1317-03\1317-03-01\1317-03-01-01\1317-03-01-01-01.dwg

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = aeb
PLOT SCALE = 10.0000' / 1" V
PLOT DATE = 8/14/2014

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

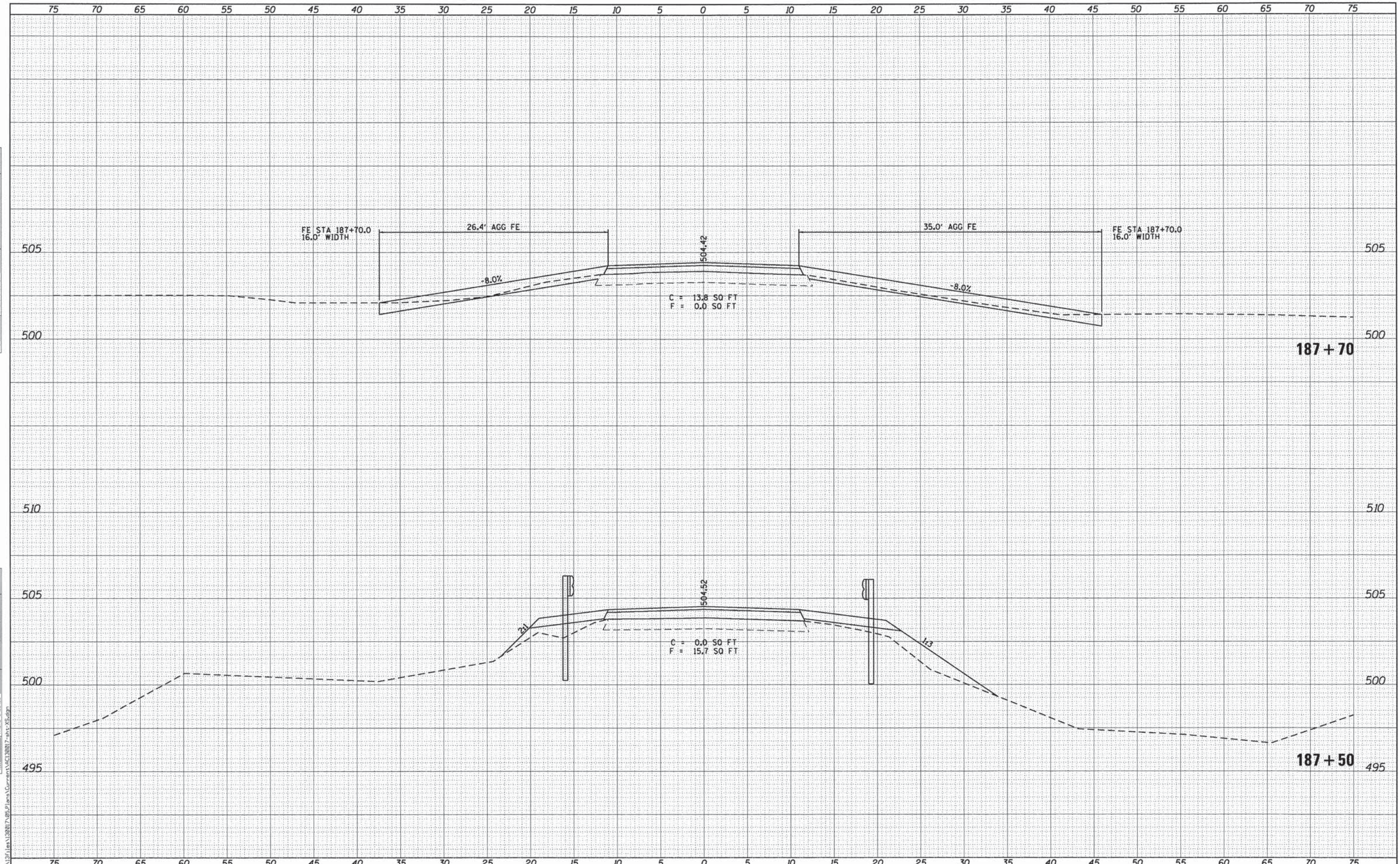
**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

SCALE: 1"=25' H
1"=50' V SHEET 17 OF 20 SHEETS STA. 187+25 TO STA. 187+25

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	57
CONTRACT NO. 93624				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
REPLACED	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY	
PLOTTED	
REPLACED	
AREAS CHECKED	
NO.	



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors

USER NAME = xeb	DESIGNED -	REVISED -
PLLOT SCALE = 10,0000' / 1"	DRAWN -	REVISED -
PLLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
 HIGHWAY DEPARTMENT**

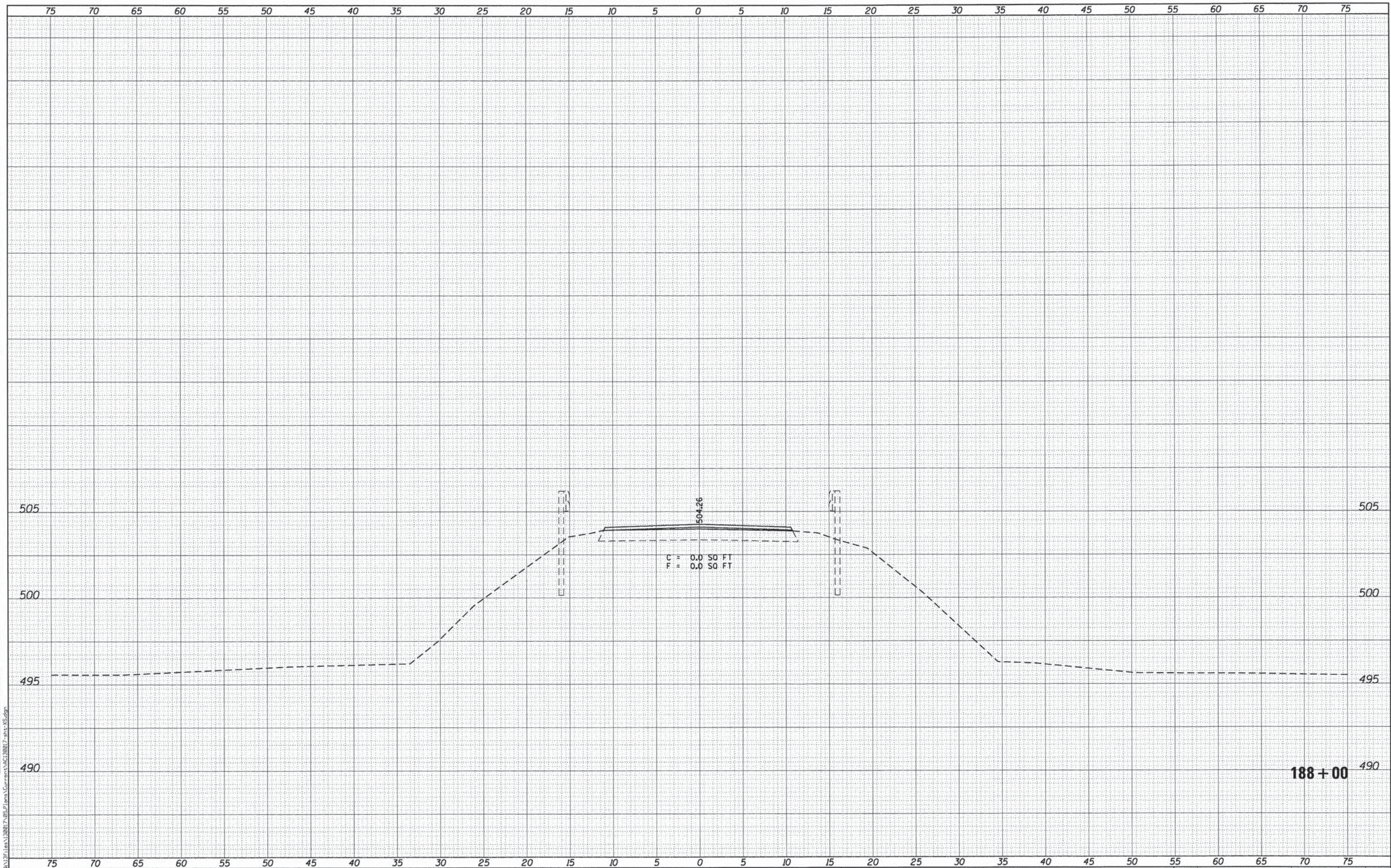
**FAS 1600 (CH 7/EAST 500th STREET)
 CROSS SECTIONS**

SCALE: 1"=25' H
 1"=2.5' V SHEET 18 OF 20 SHEETS STA. 187+50 TO STA. 187+70

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	11-00078-03-BR	ADAMS	60	58
CONTRACT NO. 93624			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



USER NAME = seb	DESIGNED -	REVISED -
PLLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

ADAMS COUNTY
HIGHWAY DEPARTMENT

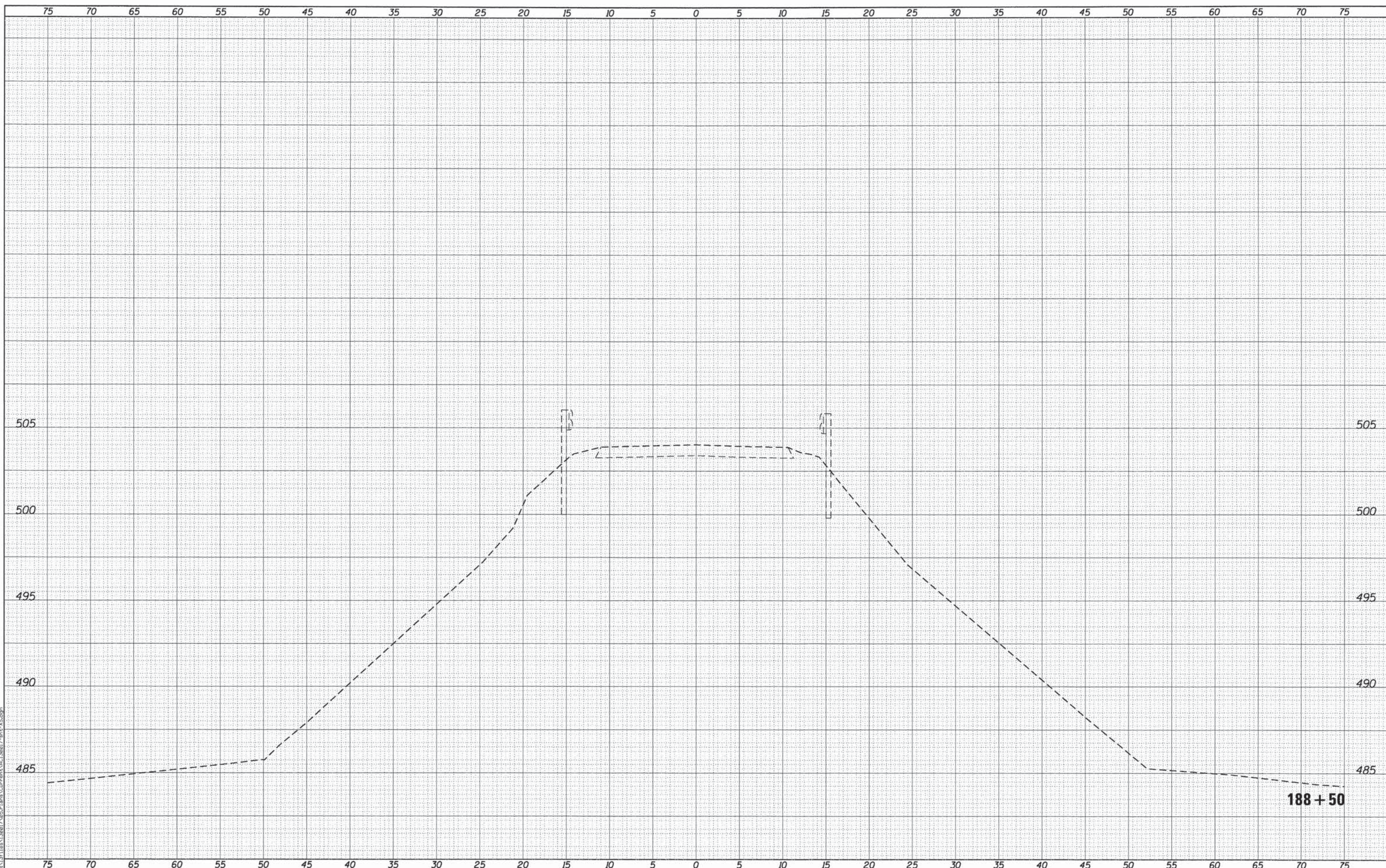
FAS 1600 (CH 7/EAST 500th STREET)			
CROSS SECTIONS			
SCALE: 1"=25' H	SHEET	19 OF 20 SHEETS	STA. 188+00 TO STA. 188+00
SCALE: 1"=2.5' V			

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 59
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\3111ea\130017\05-Plans\Drawings\130017-act-XS.dgn

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = seb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 8/14/2014	CHECKED -	REVISED -
	DATE -	REVISED -

**ADAMS COUNTY
HIGHWAY DEPARTMENT**

**FAS 1600 (CH 7/EAST 500th STREET)
CROSS SECTIONS**

SCALE: 1" = 5' H
1" = 25' V SHEET 20 OF 20 SHEETS STA. 188+50 TO STA. 188+50

F.A.S. RTE. 1600	SECTION 11-00078-03-BR	COUNTY ADAMS	TOTAL SHEETS 60	SHEET NO. 60
				CONTRACT NO. 93624
ILLINOIS FED. AID PROJECT				

FILE NAME = D:\3171\1113\11130017\05\Plans\Current\AC130017-01-XS.dgn