

024

01-18-2019 LETTING ITEM 024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 46 + 1 = 47 TOTAL PAGES

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12BR)BR	CUMBERLAND	46	1
ILLINOIS			CONTRACT NO. 74432	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

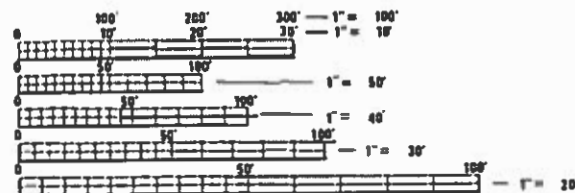
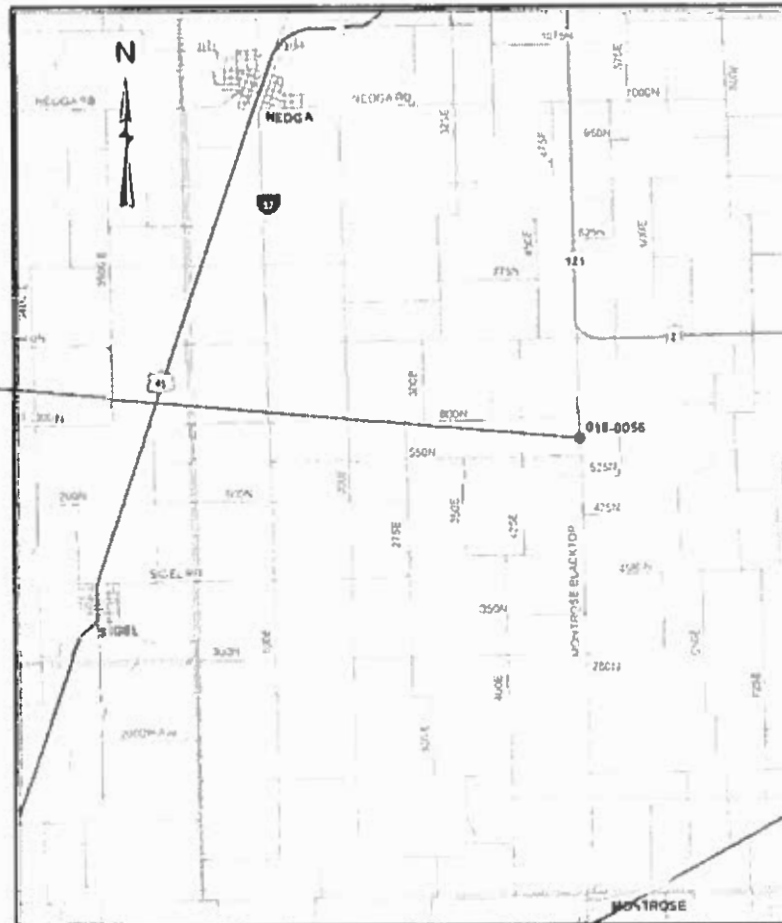
F.A.P. ROUTE 828 (MONTROSE BLACKTOP)  
SECTION (12BR)BR  
PROJECT STP-YMIE(098)  
SUPERSTRUCTURE REPLACEMENT  
CUMBERLAND COUNTY

ADT = 1,600 (F.A.P. 828)

C-97-035-10



SN 018-0056 EXISTING  
SN 018-0056 PROPOSED  
STA. 180+28.08



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

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

PROJECT ENGINEER: TOM RONAN  
PROJECT MANAGER: RUSS WALKER  
PHONE: (217) 342-8320  
CONTRACT NO. 74432

GROSS LENGTH = 275.00 FT. = 0.052 MILE  
NET LENGTH = 275.00 FT. = 0.052 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCTOBER 15 2018  
Jeffrey M South  
REGIONAL ENGINEER

Dec 7 2018  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2018  
Paul P. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 46.

STD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-03	NAME PLATE FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR

GENERAL NOTES

THE WORK ON THIS PROJECT IS LOCATED AT EXISTING STRUCTURE NUMBER 018-0056 THAT CARRIES FAP ROUTE 828 (MONTROSE BLACKTOP) OVER BRUSH CREEK 1.5 MILES SOUTH OF ILLINOIS ROUTE 121 IN CUMBERLAND COUNTY. THE WORK INCLUDED IN SECTION (12BR)BR CONSISTS OF REMOVING AND REPLACING THE CONCRETE DECK BEAMS AND WEARING SURFACE WITH A CONCRETE SLAB SUPERSTRUCTURE, BRIDGE APPROACH PAVEMENTS, FURNISHED EXCAVATION, HOT-MIX ASPHALT RESURFACING, GUARDRAIL, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THE WORK SHALL BE COMPLETED UTILIZING A ROAD CLOSURE WITH A MARKED ROUTE DETOUR.

PAINT PAVEMENT MARKING LINE - 4" THE TOTAL QUANTITY CALCULATED CONSISTS OF 550 FEET OF YELLOW AND 550 FEET OF WHITE.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

HMA SURFACE COURSE, MIX "C", N70 MINIMUM LIFT THICKNESS IS 1 1/2" AND MAXIMUM LIFT THICKNESS IS 2 1/2".

HMA BINDER COURSE MINIMUM LIFT THICKNESS IS 2 1/4" AND MAXIMUM LIFT THICKNESS IS 4".

THE ENGINEER WILL DECIDE LIFT THICKNESS USED TO CORRECT CROSS SLOPES OF THE ROADWAY.

ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2 (SPECIAL).

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
STONE DUMPED RIPRAP, CLASS A4	1.5 TONS/CU. YD.
HOT-MIX ASPHALT	112 LBS./SQ. YD./INCH

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
HMA BINDER COURSE (VARIABLE DEPTH)	PG 64-22	4.0% @ N=70	IL - 9.5	N/A	QC/QA
HMA SHOULDERS (TOP LIFT)	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
HMA SHOULDERS (BOTTOM LIFT)	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
20200100	EARTH EXCAVATION	CU YD	10	10		
20400800	FURNISHED EXCAVATION	CU YD	72	72		
25100630	EROSION CONTROL BLANKET	SQ YD	1073	1073		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80	80		
28000400	PERIMETER EROSION BARRIER	FOOT	532	532		
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	58	58		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	136	136		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	25	25		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	26	26		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	107	107		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	107	107		
44000100	PAVEMENT REMOVAL	SQ YD	226	226		
44004250	PAVED SHOULDER REMOVAL	SQ YD	29	29		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	105	105		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	4	4		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	2.2	2.2		
50200100	STRUCTURE EXCAVATION	CU YD	63	63		
50300225	CONCRETE STRUCTURES	CU YD	26.8	26.8		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	128.7	128.7		
50300260	BRIDGE DECK GROOVING	SQ YD	439	439		
50300300	PROTECTIVE COAT	SQ YD	553	553		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	96	96		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	97220	97220		
51500100	NAME PLATES	EACH	1	1		
59000200	EPOXY CRACK INJECTION	FOOT	3	3		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	32	32		

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	DRAWN -	REVISED -
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PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	3
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
6010060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		
* 6300003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	500	500		
* 6310041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	2	2		
* 6310085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	708	708		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4	4		
67100100	MOBILIZATION	LSUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1		
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	1		
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1100	1100		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10		
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	302	302		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	55	55		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SO YD	46	46		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	241	241		
Z0016702	DETOUR SIGNING	LSUM	1	1		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	96	96		

\* SPECIALTY ITEM

REV. - MS

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DRAWN -	REVISIONS -	
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PLOT DATE = 10/10/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	4
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				



RESURFACING SCHEDULE

STATION TO STATION	LENGTH	PAVEMENT WIDTH	AREA	BITUMINOUS MATERIALS ( TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
	FOOT	FOOT	SQ YD	POUND	TON	TON	SQ YD	SQ YD
179+00.00 TO 179+25.00	25.0	24.0	66.7	30.0	1.9	5.6	66.7	
179+25.00 TO 179+47.26	22.3	24.0	59.4	26.7	4.4	5.0	59.4	
179+47.26 TO 179+62.26	15.0	32.0	53.3					53.3
180+93.91 TO 181+08.91	15.0	32.0	53.3					53.3
181+08.91 TO 181+25.00	16.1	24.0	42.9	19.3	9.6	3.6	42.9	
181+25.00 TO 181+50.00	25.0	24.0	66.7	30.0	5.6	5.6	66.7	
181+50.00 TO 181+75.00	25.0	24.0	66.7	30.0	1.9	5.6	66.7	
TOTALS				136.0	23.4	25.4	302.3	106.6
ROUND TO				136	25	26	302	107

PAVEMENT & SHOULDER REMOVAL SCHEDULE

LOCATION		PAVEMENT WIDTH	SHOULDER WIDTH	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	BRIDGE APPROACH SHOULDER REMOVAL
STATION TO	STATION	FOOT	FOOT	SQ YD	SQ YD	SQ YD
179+47.26 TO	179+77.76	24	VARIES	81.3	13.8	
179+77.76 TO	179+91.76	20	8	31.1		24.9
180+64.41 TO	180+76.41	20	8	26.7		21.3
180+76.41 TO	181+08.91	24	VARIES	86.7	15.2	
TOTALS:				225.8	29.0	46.2
ROUND TO:				226	29	46

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2 (SPECIAL)	MULCH, METHOD 2*	NITROGEN FERTILIZER NUTRIENT*	PHOSPHORUS FERTILIZER NUTRIENT*	POTASSIUM FERTILIZER NUTRIENT*	AGRICULTURAL GROUND LIMESTONE*	TEMPORARY EROSION CONTROL SEEDING
	ACRE	ACRE	POUND	POUND	POUND	TON	POUND
NORTHEAST SLOPE	0.04	-	5	5	5	0.1	10
NORTHWEST SLOPE	0.04	-	4	4	4	0.1	10
SOUTHEAST SLOPE	0.08	-	7	7	7	0.2	16
SOUTHWEST SLOPE	0.06	-	6	6	6	0.1	12
NORTHEAST ACCESS	0.07	0.07	6	6	6	0.1	14
NORTHWEST ACCESS	0.07	0.07	6	6	6	0.1	14
TOTAL	0.36	0.14	34	34	34	0.7	76
ROUND TO	0.5	0.25	40	40	40	0.7	80

\* FOR INFORMATION ONLY, NOT A PAY ITEM.

NITROGEN, PHOSPHORUS, AND POTASSIUM APPLIED AT 90 LBS/ACRE.

AGRICULTURAL GROUND LIMESTONE APPLIED AT 2 TONS/ACRE.

GUARDRAIL SCHEDULE

LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL TANGENT)	TRAFFIC BARRIER TERMINAL, TYPE 1B	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
NORTHEAST QUADRANT	140	50.0	1	1		1	2
NORTHWEST QUADRANT	226	100.0	1	1		1	2
SOUTHEAST QUADRANT	202	200.0	1		1		3
SOUTHWEST QUADRANT	140	150.0	1		1		3
TOTALS	708	500	4	2	2	2	10

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EMBANKMENT CU YD	25% EARTH EXCAVATION SHRINKAGE	NEEDED BORROW (FOR INFO ONLY) CU YD	FURNISHED EXCAVATION (CU YD)
FAP 828 LEFT	5.6	27.5	4.2	23.3	23.3
FAP 828 RIGHT	4.2	51.4	3.1	48.3	48.3
TOTAL =	9.8				71.6
ROUND TO:	10.0				72.0

NOTES:

- 1- NO SHRINKAGE FACTOR APPLIED TO THE EMBANKMENT QUANTITY
- 2- A 25% SHRINKAGE FACTOR WAS APPLIED TO THE EXCAVATION QUANTITY
- 3- NO PAYMENT WILL BE ALLOWED FOR OVERHAUL
- 4- EXCAVATION REQUIRED FOR AGGREGATE SHOULDERS, TYPE B 6" IS MEASURED AND PAID FOR AS EARTH EXCAVATION

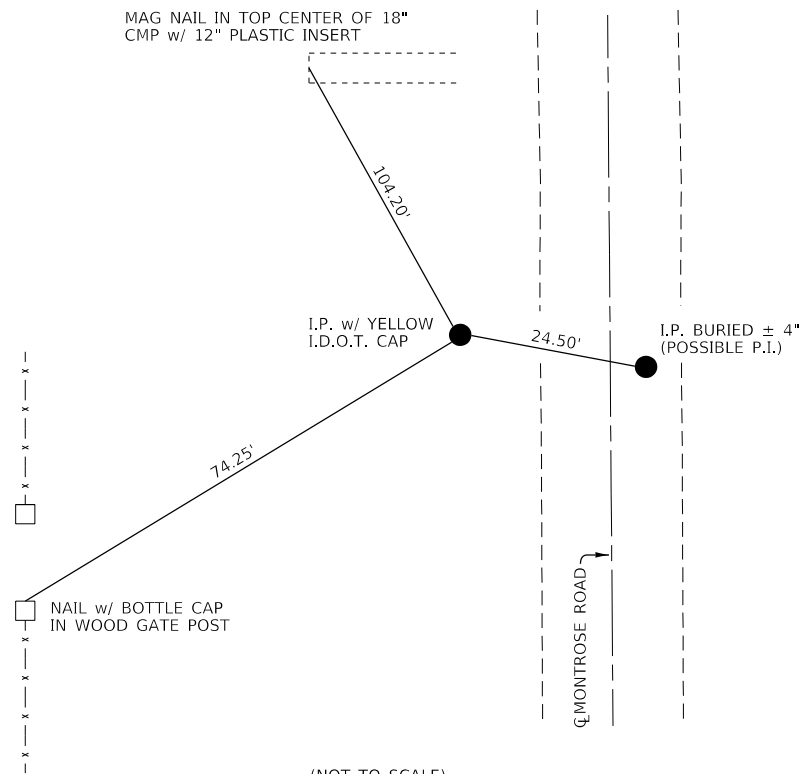
AGGREGATE SHOULDER SCHEDULE

STATION TO STATION	LENGTH FOOT	SHOULDER WIDTH FOOT	AREA SQ YD	AGGREGATE SHOULDERS, TYPE B 6" SQ YD	AGGREGATE WEDGE SHOULDER, TYPE B TON
178+25.00 TO 178+50.00	25.0	VARIES	13.0		1.5
178+50.00 TO 178+75.00	25.0	4.0	11.1		1.4
178+75.00 TO 179+00.00	25.0	4.0	11.1		1.3
179+00.00 TO 179+25.00	25.0	8.0	22.2	22.2	
179+25.00 TO 179+47.26	22.3	8.0	19.8	22.0	
179+47.26 TO 179+62.26	15.0	0.0	0.0		
180+93.91 TO 181+08.91	15.0	0.0	0.0		
181+08.91 TO 181+25.00	16.1	8.0	14.3	16.5	
181+25.00 TO 181+50.00	25.0	8.0	22.2	22.2	
181+50.00 TO 181+75.00	25.0	8.0	22.2	22.2	
TOTALS				105.1	4.2
ROUND TO				105	4

CROSS SLOPE CORRECTION TABLE

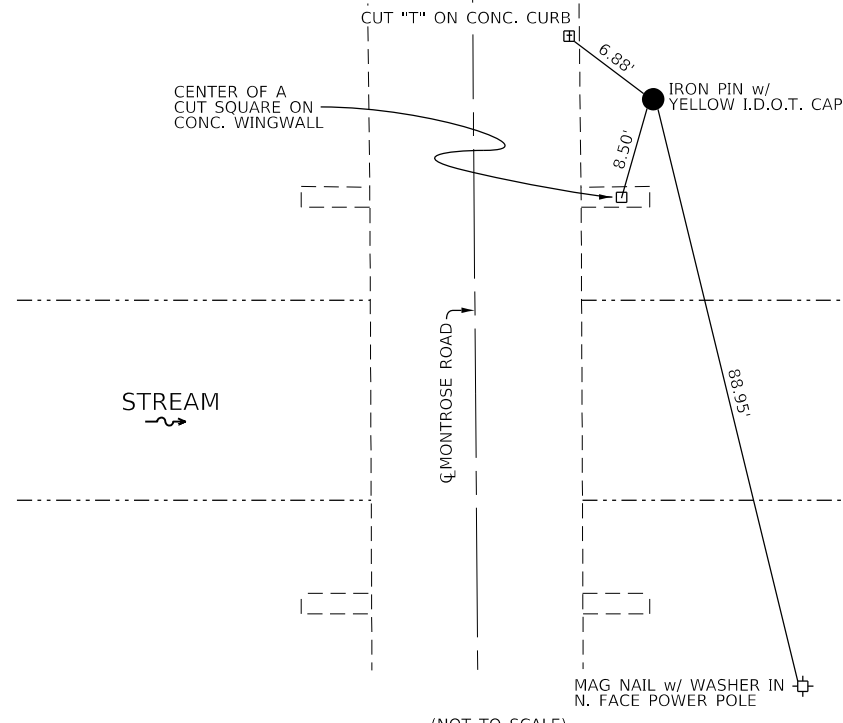
STATION		EAST EOP ELEV.	CL ELEV	WEST EOP ELEV.
STA. 179+00	EXISTING	572.63	573.04	572.65
	PROPOSED	572.63	573.04	572.65
	DIFFERENCE	0.00	0.00	0.00
STA. 179+25	EXISTING	572.64	573.05	572.68
	PROPOSED	572.74	573.05	572.75
	DIFFERENCE	0.10	0.00	0.07
179+50	EXISTING	572.66	573.04	572.71
	PROPOSED	572.82	573.04	572.82
	DIFFERENCE	0.16	0.00	0.11
181+00	EXISTING	576.55	576.86	576.48
	PROPOSED	577.16	577.36	577.16
	DIFFERENCE	0.61	0.50	0.68
181+25	EXISTING	578.39	578.69	578.33
	PROPOSED	578.65	578.92	578.64
	DIFFERENCE	0.26	0.23	0.31
181+50	EXISTING	580.25	580.54	580.18
	PROPOSED	580.37	580.71	580.35
	DIFFERENCE	0.12	0.17	0.17
181+75	EXISTING	582.32	582.73	582.29
	PROPOSED	582.32	582.73	582.29
	DIFFERENCE	0.00	0.00	0.00

TRAV. #400



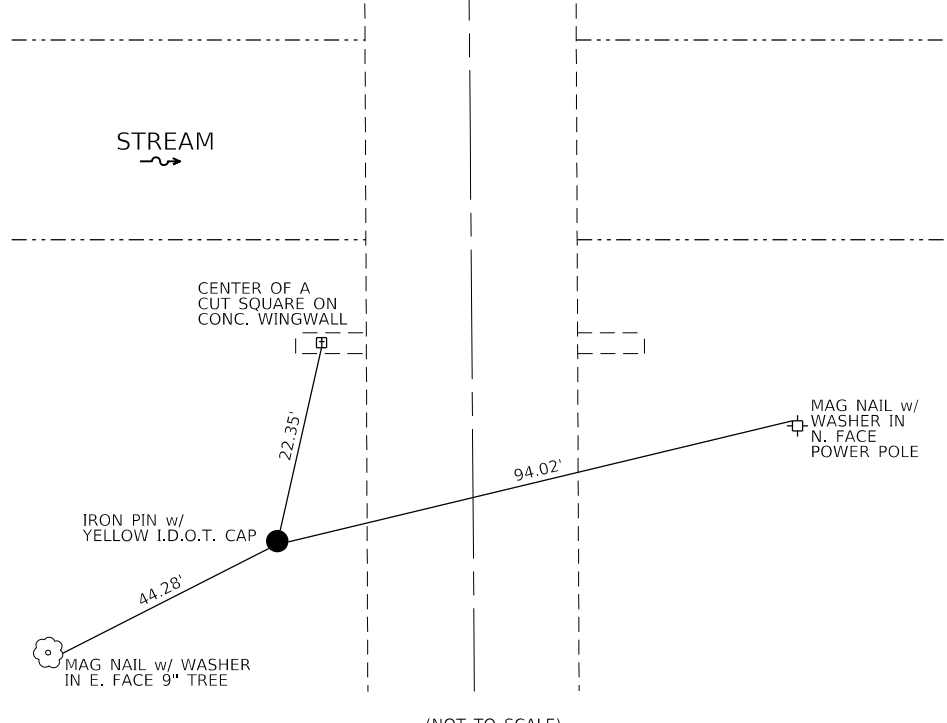
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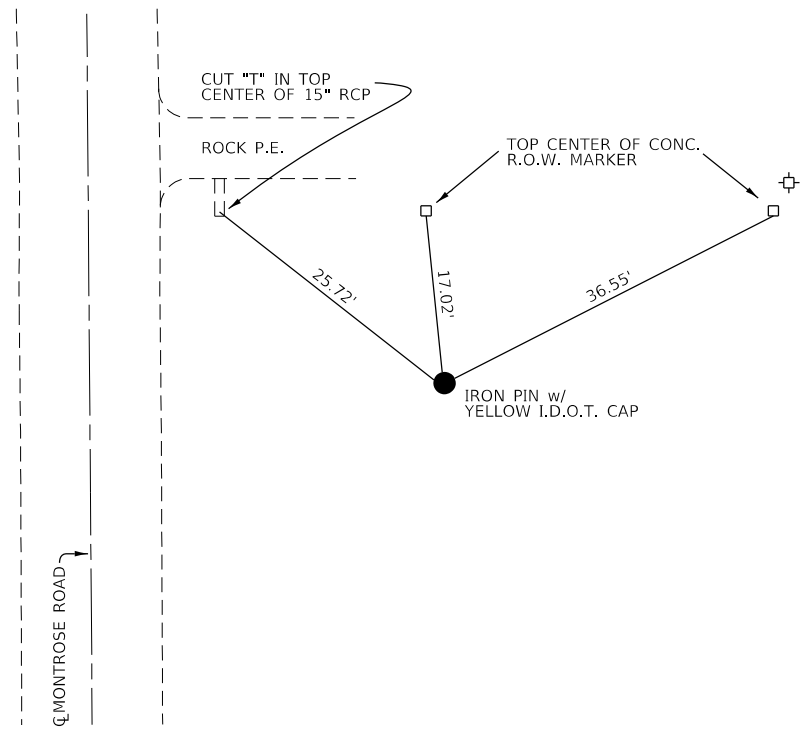
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TRAV. #402



(NOT TO SCALE)

TRAV. #403



(NOT TO SCALE)

BENCHMARKS

BM	STATION	OFFSET	ELEV	DESCRIPTION
TBM 5			626.24	RR SPIKE IN POWER POLE EAST SIDE OF ROAD SET NEXT TO P. E. TO WHITE HOUSE WITH GREEN AWNING BACK SIDE OF POLE 1.0 MILES SOUTH OF IL 121 JUNCTION
BM 100	77+10	68' LT.	567.88	RR SPIKE IN THE WEST FACE OF A POWER POLE 68' EAST OF CENTERLINE OF MONTROSE BLACKTOP +/- 300' NORTH OF BRIDGE
BM 101	179+70	19' LT.	572.79	CHISELED SQUARE ON THE NORTHEAST WINGWALL OF SN 018-0056 19' EAST OF THE CENTERLINE OF MONTROSE BLACKTOP
TBM 7			622.95	CHISELED SQUARE ON THE CENTER OF EAST HEADWALL OF A.R. CULVERT +/- 900' SOUTH OF WHITE HOUSE WITH BLACK SHUTTERS 2.1 MILES SOUTH OF IL 121 JUNCTION

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/10/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TIE POINTS AND BENCHMARKS

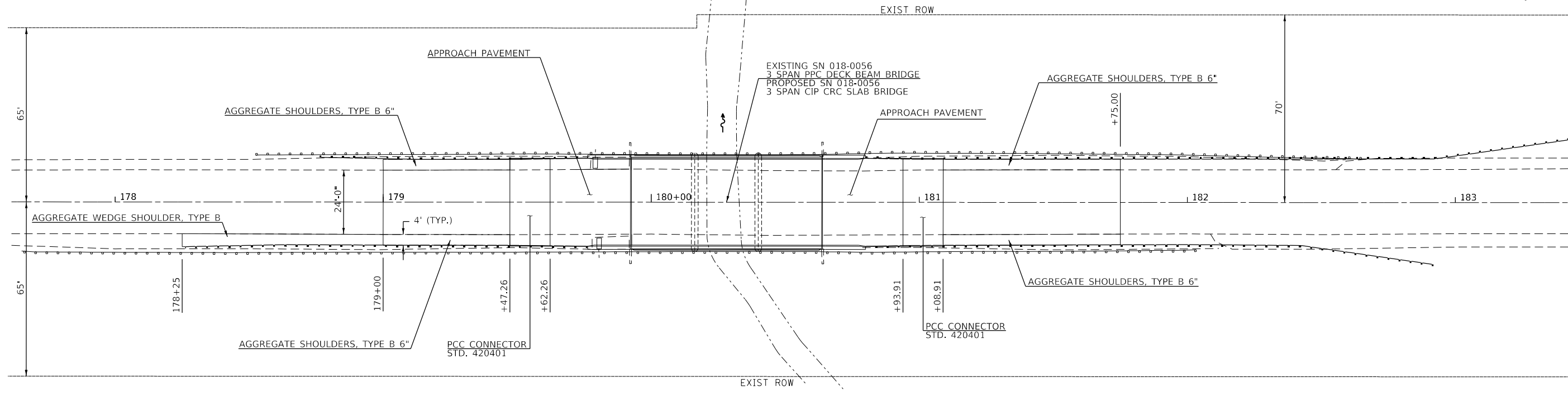
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	8
CONTRACT NO. 74432			ILLINOIS FED. AID PROJECT	

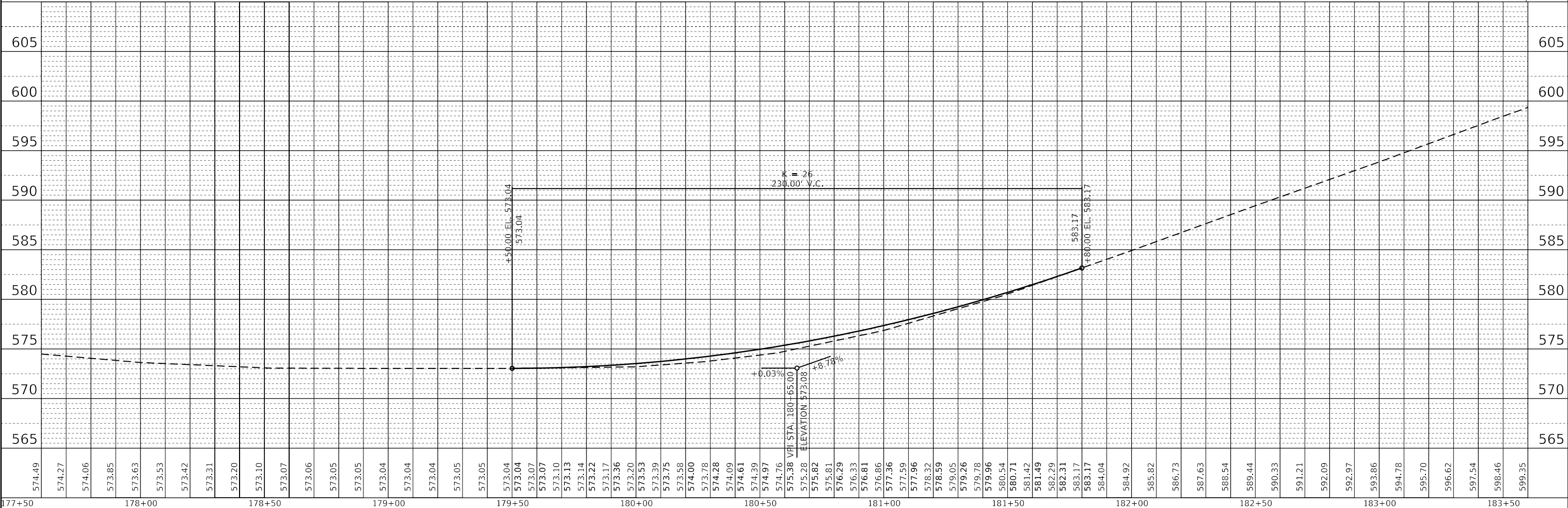




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	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATION		



574.49	574.27	574.06	573.85	573.63	573.53	573.42	573.31	573.20	573.10	573.07	573.06	573.05	573.05	573.04	573.04	573.04	573.05	573.05	573.04	573.04	573.07	573.10	573.13	573.14	573.22	573.17	573.36	573.20	573.53	573.39	573.75	573.58	574.00	573.78	574.28	574.09	574.61	574.39	574.97	574.76	575.38	575.28	575.82	575.81	576.29	576.33	576.81	576.86	577.36	577.59	577.96	578.32	578.59	579.05	579.26	579.78	579.96	580.54	580.71	581.42	581.49	582.29	582.31	583.17	583.17	584.04	584.92	585.82	586.73	587.63	588.54	589.44	590.33	591.21	592.09	592.97	593.86	594.78	595.70	596.62	597.54	598.46	599.35
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRUSH CREEK  
PLAN AND PROFILE**

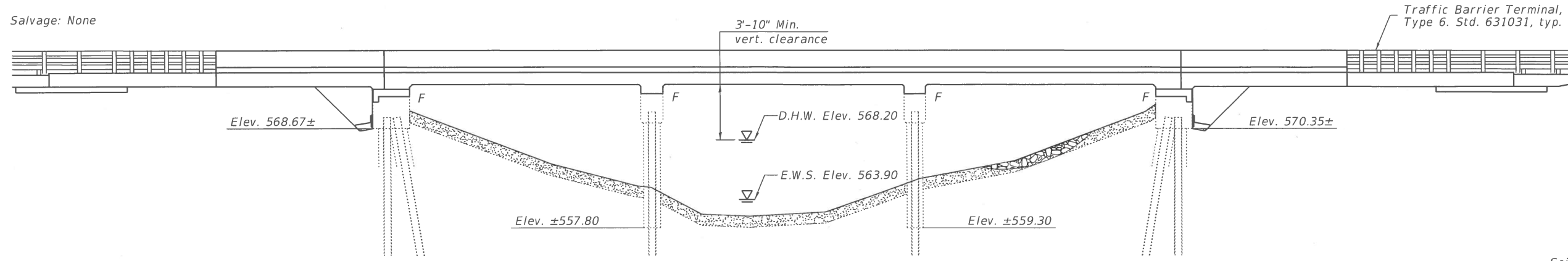
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 828	SECTION (12BR)BR	COUNTY CUMBERLAND	TOTAL SHEETS 46	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74432	

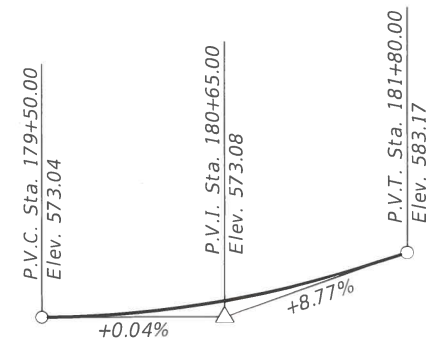
Bench Mark 100: RR spike in P.P. Sta. 177+10 68' Lt, Elev. 567.88  
 Bench Mark 101: Chisel square on N.E. wingwall of Structure No. 018-0056, Sta. 179+70 19' Lt, Elev. 572.79

Existing Structure: S.N. 018-0056 Built in 1981 as F.A.P. Route 828, Section 12BR. The existing structure is a 3 span PPC deck beam superstructure with open pile bent abutments and solid wall encased pile bent piers supported on steel H-piles. Back-to-back abutment length is 73'-7 $\frac{3}{4}$ " and out-to-out width of deck is 36'-0". The superstructure is to be removed and replaced. Traffic will be detoured during construction.

Salvage: None



ELEVATION



PROFILE GRADE  
(along  $\bar{C}$  Montrose Rd.)

SEISMIC DATA

EXISTING SUBSTRUCTURE  
 Seismic Performance Category (SPC) = A  
 Horizontal Bedrock Acceleration Coefficient = 0.065g  
 Site Coefficient = 1.0  
 (Standard Bridge Importance)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

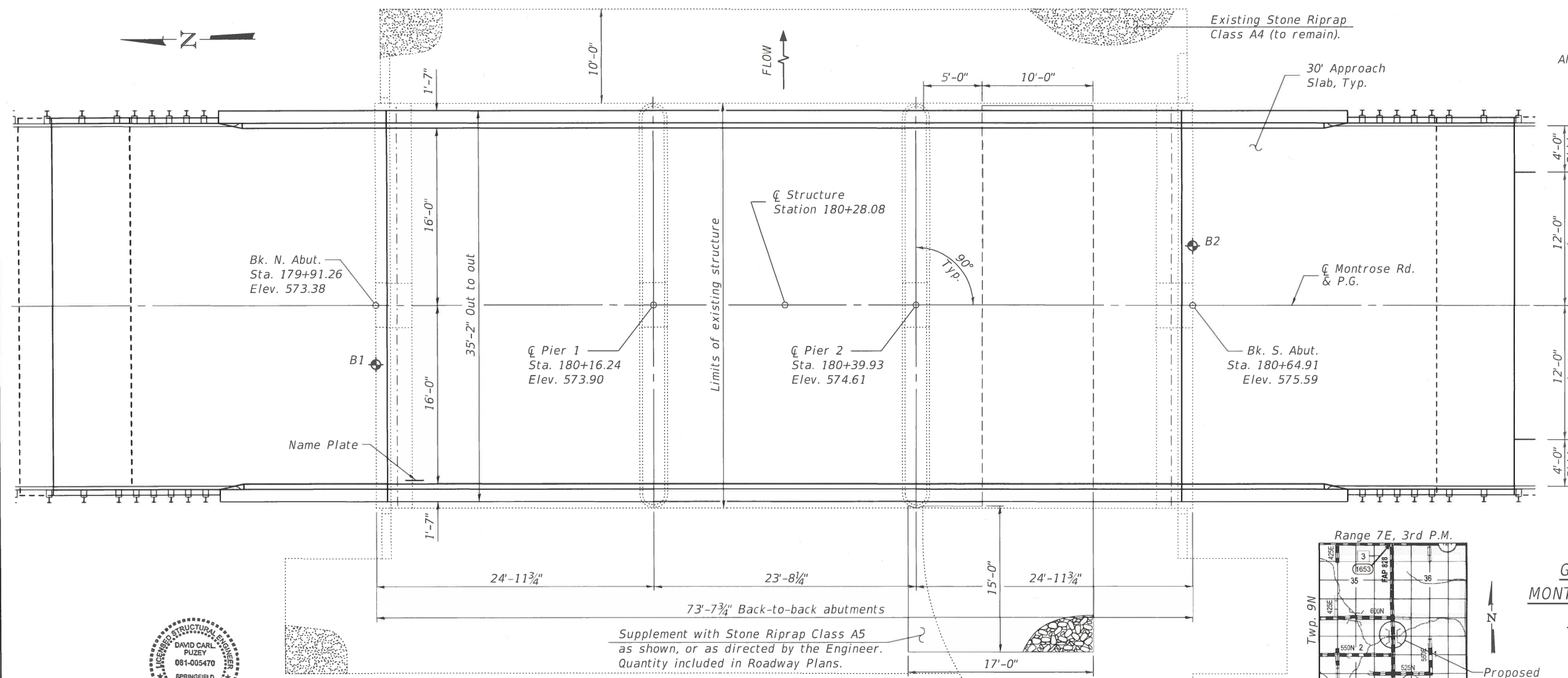
DESIGN STRESSES

NEW CONSTRUCTION  
 $f'_c = 3,500$  psi  
 $f'_c = 4,000$  psi (Superstructure concrete)  
 $f_y = 60,000$  psi (Reinforcement)

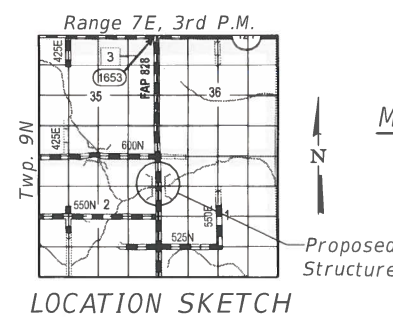
EXISTING CONSTRUCTION  
 $f'_c = 1,400$  psi (Substructure)  
 $f_y = 24,000$  psi (Reinforcement)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition  
 1995 Seismic Retrofitting Manual for Highway Bridges



PLAN



GENERAL PLAN & ELEVATION  
 MONTROSE RD. OVER BRUSH CREEK  
 F.A.P. 828 - SEC. (12BR)BR  
 CUMBERLAND COUNTY  
 STA. 180+28.08  
 STRUCTURE NO. 018-0056

Supplement with Stone Riprap Class A5 as shown, or as directed by the Engineer. Quantity included in Roadway Plans.



EXPIRES 11-30-2020

DESIGNED - Andrew Bauer	EXAMINED - Jay F. Schiff	DATE - 12-7-2018
CHECKED - Joshua C. ...	PASSED - Jay F. Schiff	REVIS -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGES AND STRUCTURES	REVIS -
CHECKED - JMO/ASB		

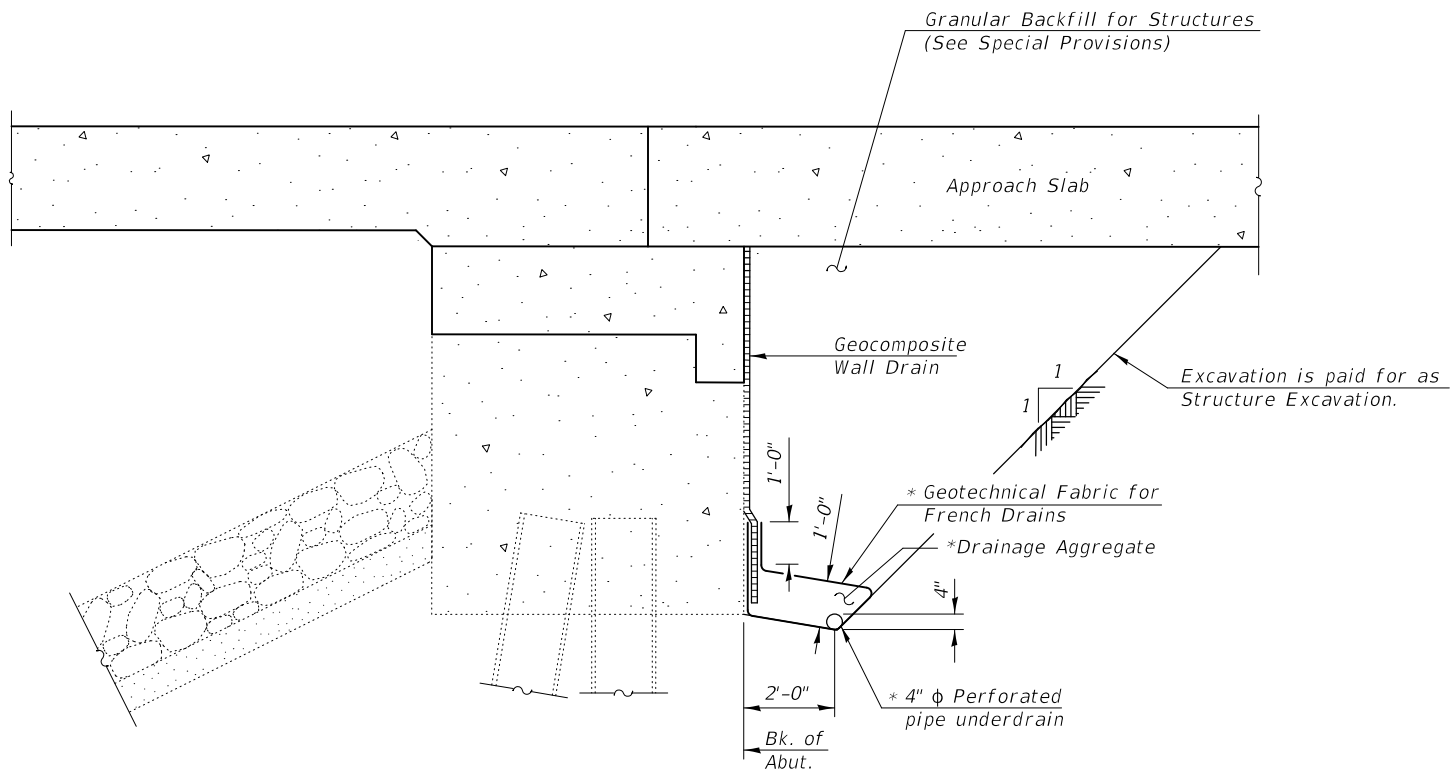
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 20 SHEETS

F.A.P. RTE. 828	SECTION (12BR)BR	COUNTY CUMBERLAND	TOTAL SHEETS 46	SHEET NO. 10
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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12/7/2018 2:06:19 PM



**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures.  
(See Special Provisions)

Note:

All drainage system components shall extend to 2'-0" from 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 601101).

STATION 180+28.08  
REBUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 828 - SEC. (12BR)BR  
LOADING HL-93  
STRUCTURE NO. 018-0056

**NAME PLATE**  
See Std. 515001

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

**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3-4 - Top of Slab Elevations
- 5-6 - Top of Approach Slab Elevations
- 7-9 - Superstructure
- 10-11 - Bridge Approach Slab Details
- 12-15 - Removal and Repairs
- 16-17 - Abutments
- 18 - Piers
- 19 - Concrete Parapet Slipforming Option
- 20 - Soil Boring Logs

**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)				Item 113
	N. Abut.	Pier 1	Pier 2	S. Abut.	
State					5
Q100	568.76	552.90	556.60	570.51	
Q200	568.76	552.20	556.50	570.51	
Design	568.76	552.90	556.60	570.51	
Check	568.76	552.20	556.50	570.51	

**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.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		2.2	2.2
Structure Excavation	Cu. Yd.		63	63
Concrete Structures	Cu. Yd.		26.8	26.8
Concrete Superstructure	Cu. Yd.	128.7		128.7
Bridge Deck Grooving	Sq. Yd.	439		439
Protective Coat	Sq. Yd.	553		553
Concrete Superstructure (Approach Slab)	Cu. Yd.	96.0		96.0
Reinforcement Bars, Epoxy Coated	Pound	95,480	1,740	97,220
Name Plates	Each	1		1
Epoxy Crack Injection	Foot		3	3
Geocomposite Wall Drain	Sq. Yd.		32	32
Granular Backfill for Structures	Cu. Yd.		55	55
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		241	241
Pipe Underdrains for Structures 4"	Foot		96	96

**WATERWAY INFORMATION**

Flood Event	Freq. Yr.	Discharge Ft <sup>3</sup> /s	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Existing Overtopping Elev. = 573.04 @ Sta. 179+00									
Drainage Area = 4.3 sq. mi. Proposed Overtopping Elev. = 573.04 @ Sta. 179+00									
Design	50	2590	229	229	568.2	2.9	2.9	571.1	571.1
Base	100	3070	246	246	568.5	3.4	3.4	571.9	571.9
Scout Design Check	200	3560	263	263	568.8	4.1	4.1	572.9	572.9
Overtop Existing	220	3640	263	-	568.8	4.3	-	573.1	-
Overtop Proposed	220	3640	-	263	568.8	-	4.3	-	573.1

10 yr. velocity through existing bridge = 6.9 ft/s  
10 yr. velocity through proposed bridge = 6.9 ft/s

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DESIGNED - ANDREW J. BAUER	EXAMINED - <i>Joanne F. Joffe</i>	DATE - DECEMBER 07, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Berger</i>	
DRAWN - MICHAEL B. MOSSMAN		
CHECKED - A.J.B. / J.M.O.		

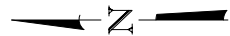
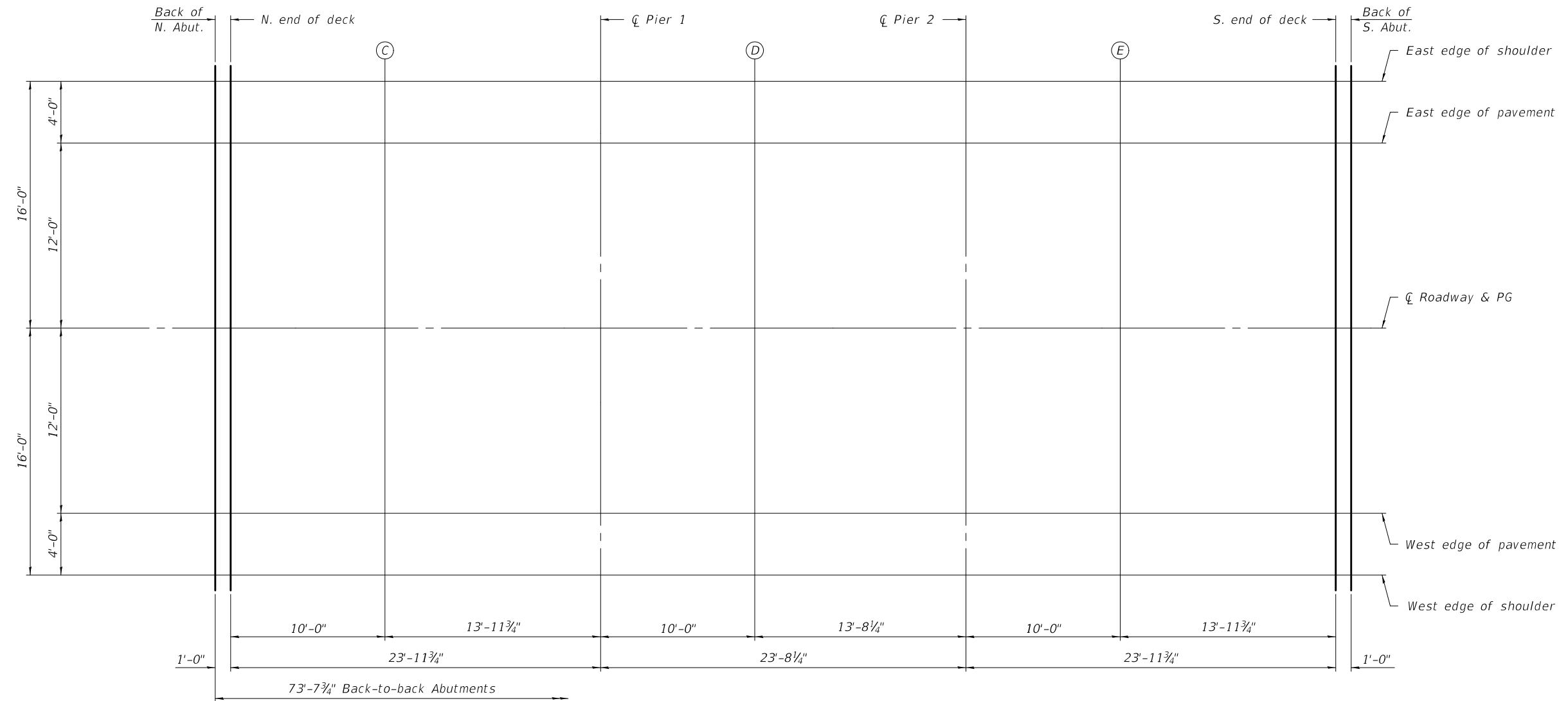
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 018 - 0056**

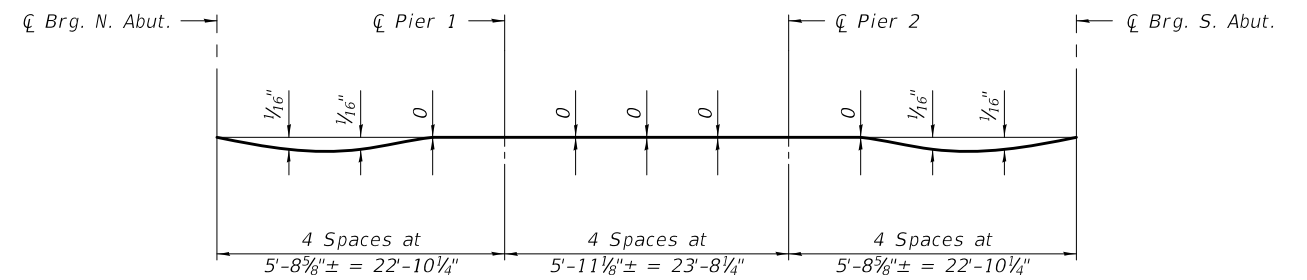
SHEET 2 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	11
CONTRACT NO. 74432				
		ILLINOIS	FED. AID PROJECT	

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PLAN



DEAD LOAD DEFLECTION DIAGRAM  
 (Includes weight of concrete only.)

Note:  
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 of 20.

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	<i>Joanne F. Jaffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kruger</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 018 - 0056

SHEET 3 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	12
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. end of deck	179+92.26	-16.00	573.13
C	180+02.26	-16.00	573.32
Q Pier 1	180+16.24	-16.00	573.64
D	180+26.24	-16.00	573.91
Q Pier 2	180+39.93	-16.00	574.35
E	180+49.93	-16.00	574.71
S. end of deck	180+63.91	-16.00	575.29

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. end of deck	179+92.26	-12.00	573.21
C	180+02.26	-12.00	573.40
Q Pier 1	180+16.24	-12.00	573.72
D	180+26.24	-12.00	573.99
Q Pier 2	180+39.93	-12.00	574.43
E	180+49.93	-12.00	574.79
S. end of deck	180+63.91	-12.00	575.37

Q ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
N. end of deck	179+92.26	0.00	573.39
C	180+02.26	0.00	573.58
Q Pier 1	180+16.24	0.00	573.90
D	180+26.24	0.00	574.17
Q Pier 2	180+39.93	0.00	574.61
E	180+49.93	0.00	574.97
S. end of deck	180+63.91	0.00	575.55

WEST EDGE OF PAVEMENT

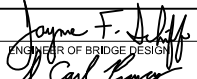
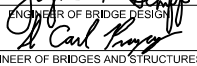
Location	Station	Offset	Theoretical Grade Elevations
N. end of deck	179+92.26	12.00	573.21
C	180+02.26	12.00	573.40
Q Pier 1	180+16.24	12.00	573.72
D	180+26.24	12.00	573.99
Q Pier 2	180+39.93	12.00	574.43
E	180+49.93	12.00	574.79
S. end of deck	180+63.91	12.00	575.37

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. end of deck	179+92.26	16.00	573.13
C	180+02.26	16.00	573.32
Q Pier 1	180+16.24	16.00	573.64
D	180+26.24	16.00	573.91
Q Pier 2	180+39.93	16.00	574.35
E	180+49.93	16.00	574.71
S. end of deck	180+63.91	16.00	575.29

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DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	
PASSED	
ENGINEER OF BRIDGE DESIGN ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 018 - 0056**

SHEET 4 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	13
CONTRACT NO. 74432				
ILLINOIS			FED. AID PROJECT	

EAST EDGE OF SHOULDER

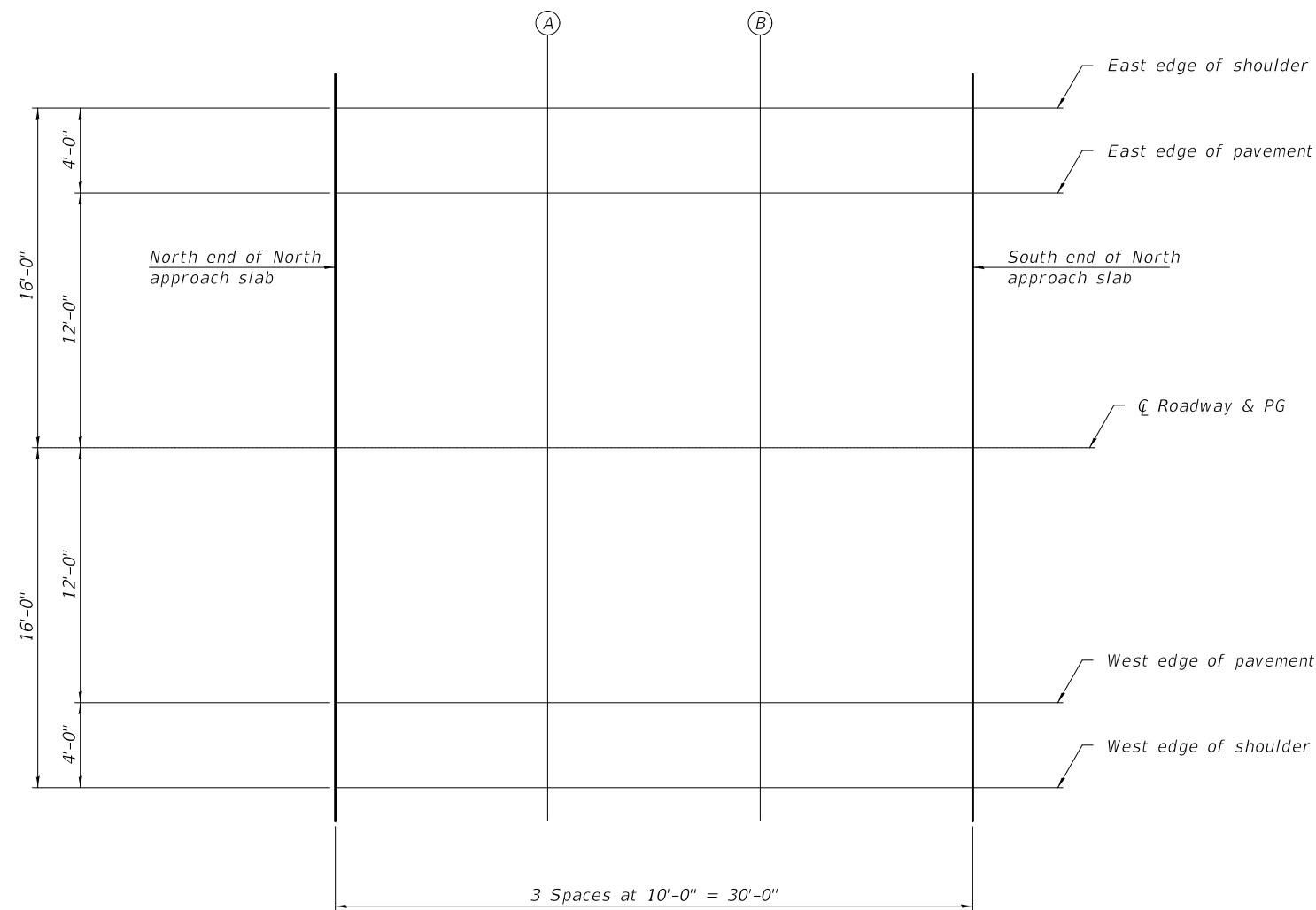
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	179+62.26	-16.00	572.81
A	179+72.26	-16.00	572.88
B	179+82.26	-16.00	572.99
S. End of N. Appr. Slab	179+92.26	-16.00	573.13

EAST EDGE OF PAVEMENT

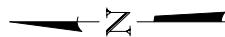
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	179+62.26	-12.00	572.89
A	179+72.26	-12.00	572.96
B	179+82.26	-12.00	573.07
S. End of N. Appr. Slab	179+92.26	-12.00	573.21

☐ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	179+62.26	0.00	573.07
A	179+72.26	0.00	573.14
B	179+82.26	0.00	573.25
S. End of N. Appr. Slab	179+92.26	0.00	573.39



PLAN



WEST EDGE OF PAVEMENT

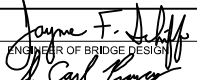
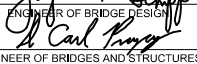
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	179+62.26	12.00	572.89
A	179+72.26	12.00	572.96
B	179+82.26	12.00	573.07
S. End of N. Appr. Slab	179+92.26	12.00	573.21

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	179+62.26	16.00	572.81
A	179+72.26	16.00	572.88
B	179+82.26	16.00	572.99
S. End of N. Appr. Slab	179+92.26	16.00	573.13

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DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	
PASSED	
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 018 - 0056**

SHEET 5 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	14
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

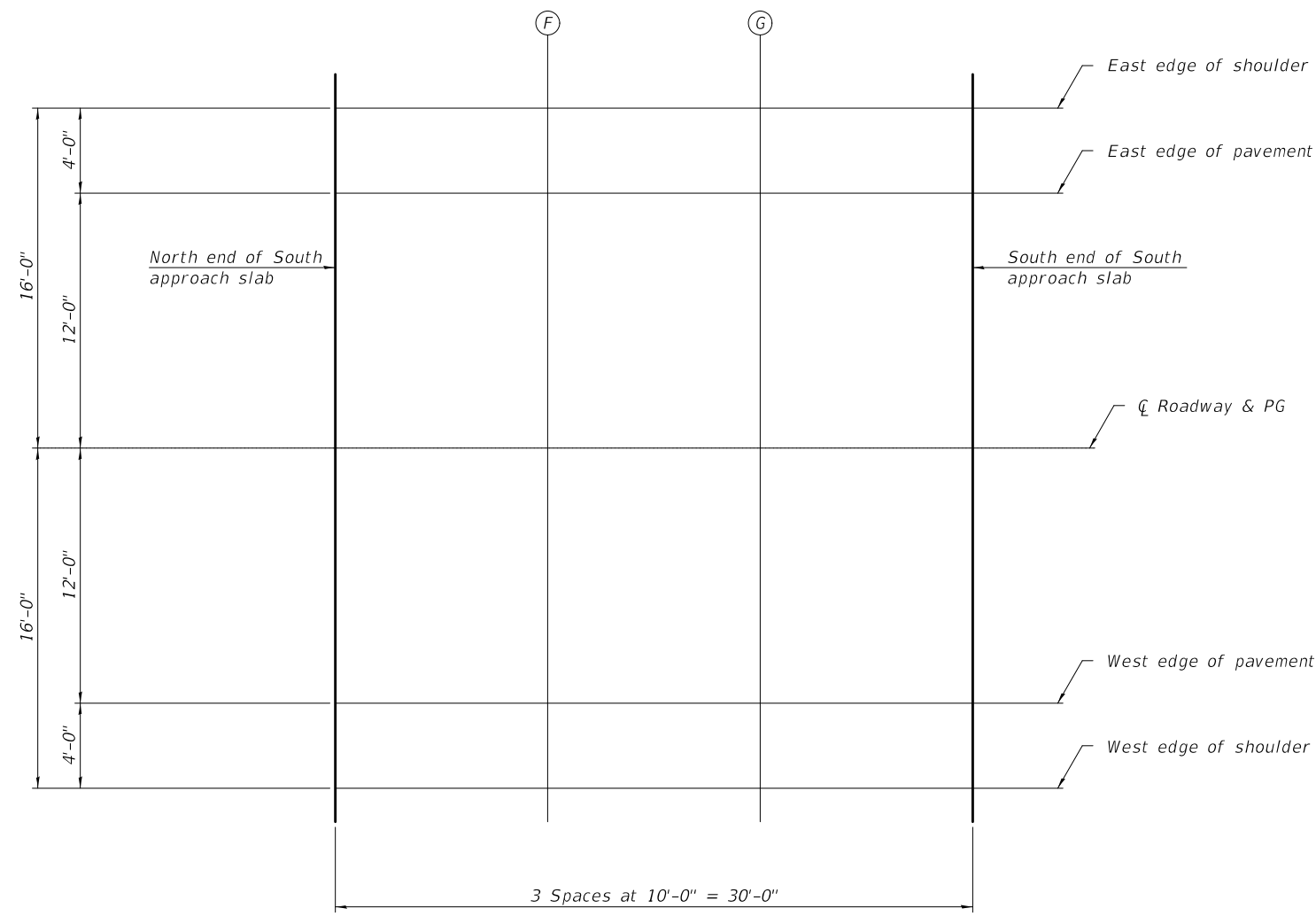
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Aprpr. Slab	180+63.91	-16.00	575.29
F	180+73.91	-16.00	575.74
G	180+83.91	-16.00	576.23
S. End of S. Aprpr. Slab	180+93.91	-16.00	576.77

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Aprpr. Slab	180+63.91	-12.00	575.37
F	180+73.91	-12.00	575.82
G	180+83.91	-12.00	576.31
S. End of S. Aprpr. Slab	180+93.91	-12.00	576.85

☐ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Aprpr. Slab	180+63.91	0.00	575.55
F	180+73.91	0.00	576.00
G	180+83.91	0.00	576.49
S. End of S. Aprpr. Slab	180+93.91	0.00	577.02



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Aprpr. Slab	180+63.91	12.00	575.37
F	180+73.91	12.00	575.82
G	180+83.91	12.00	576.31
S. End of S. Aprpr. Slab	180+93.91	12.00	576.85

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Aprpr. Slab	180+63.91	16.00	575.29
F	180+73.91	16.00	575.74
G	180+83.91	16.00	576.23
S. End of S. Aprpr. Slab	180+93.91	16.00	576.77

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DESIGNED - ANDREW J. BAUER	EXAMINED	DATE - DECEMBER 07, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED	
DRAWN - MICHAEL B. MOSSMAN		REVISER -
CHECKED - A.J.B. / J.M.O.		REVISER -

*Joanne F. Joffe*  
ENGINEER OF BRIDGE DESIGN  
*Carl Kasper*  
ENGINEER OF BRIDGES AND STRUCTURES

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 018 - 0056**

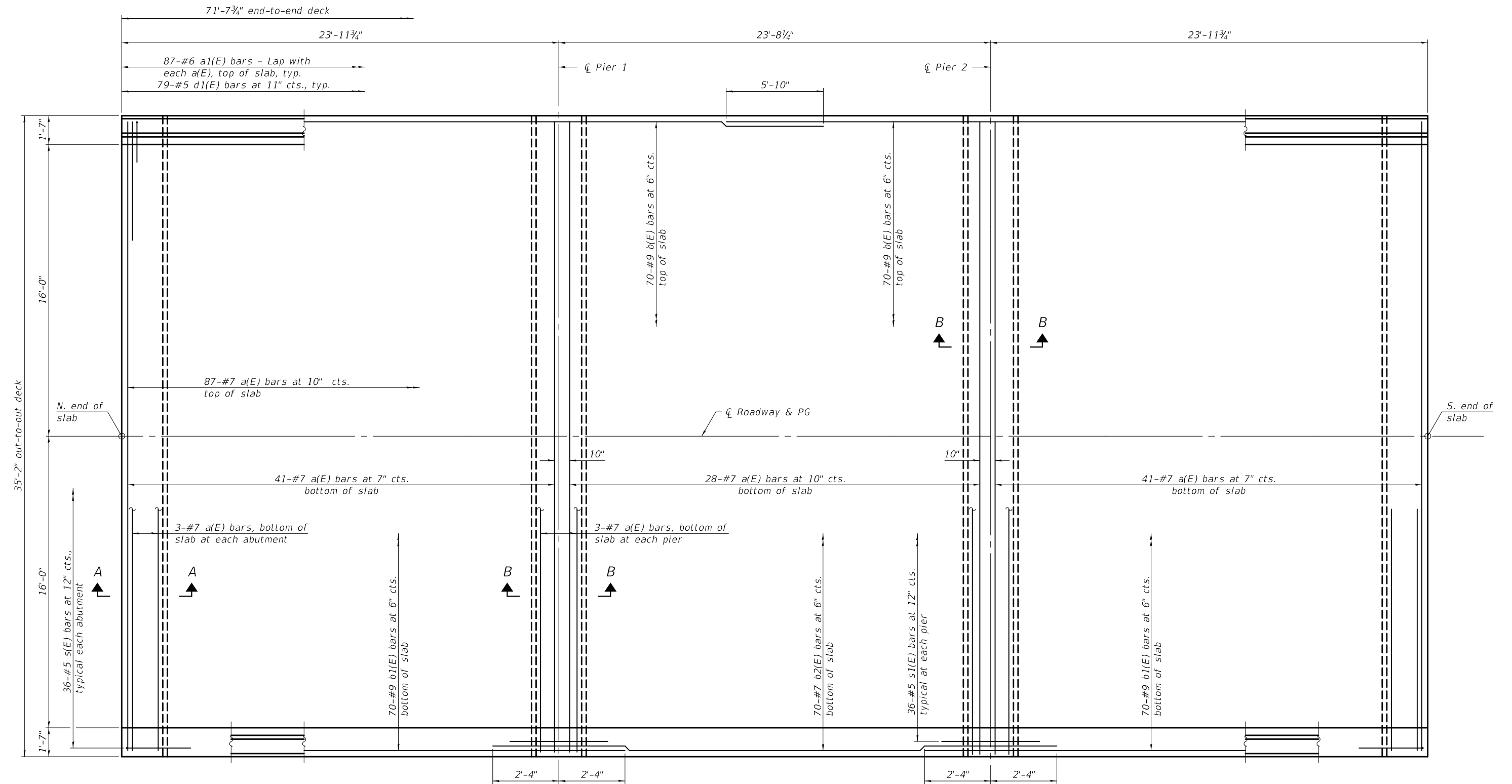
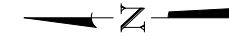
SHEET 6 OF 20 SHEETS

F.A.P. RTE. 828	SECTION (12BR)BR	COUNTY CUMBERLAND	TOTAL SHEETS 46	SHEET NO. 15
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

Notes:  
See sheets 8 and 9 of 20 for superstructure details and Bill of Material.

**MINIMUM BAR LAP**

#7 bar = 4'-8"  
#9 bar = 5'-10"



PLAN

MODEL: 0180056-74432-007  
FILE NAME: p:\w\1084EBID\INTEG\Illinois.gov\PWIDOT\Documents\Bureau of Bridges and Structures\Projects\0180056\CADD Plans\0180056-74432.dgn

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	<i>Jaime F. Jaffe</i>
PASSED	<i>Carl Kroyer</i>

ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

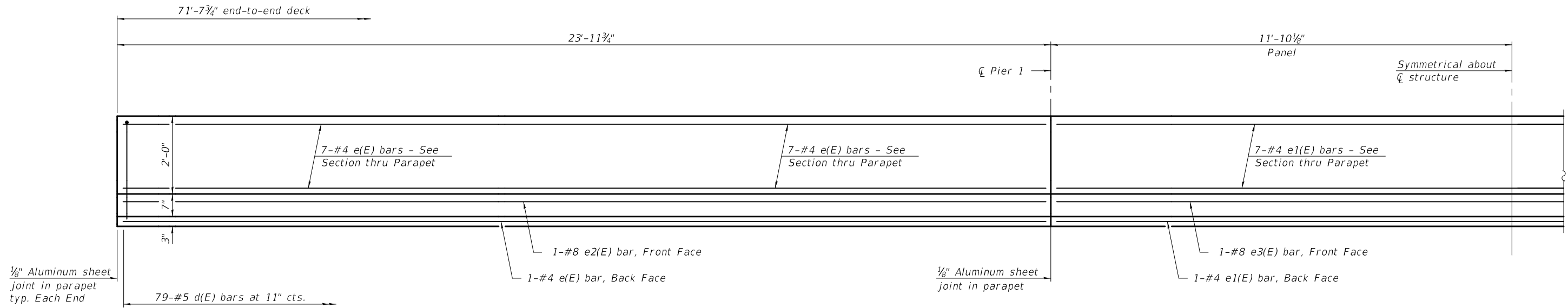
**SUPERSTRUCTURE  
STRUCTURE NO. 018 - 0056**

SHEET 7 OF 20 SHEETS

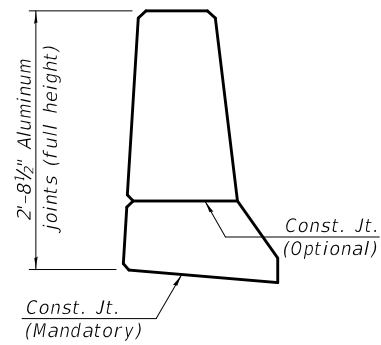
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	16
CONTRACT NO. 74432				

ILLINOIS FED. AID PROJECT

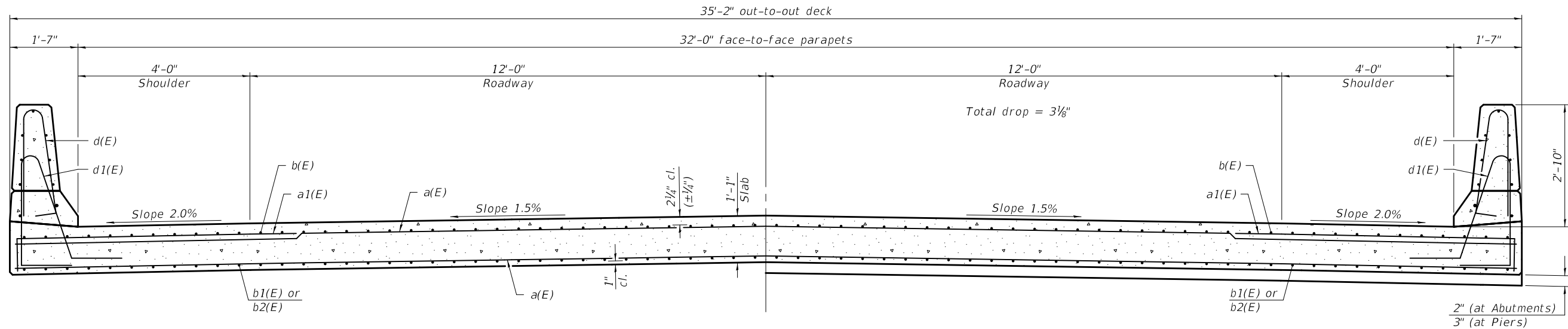




INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAIL



CROSS SECTION  
(Looking South)

MODEL: 0180056-74432-008  
 FILE NAME: p:\w\084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180056\CADD Plans\0180056-74432.dgn

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	 ENGINEER OF BRIDGE DESIGN
PASSED	

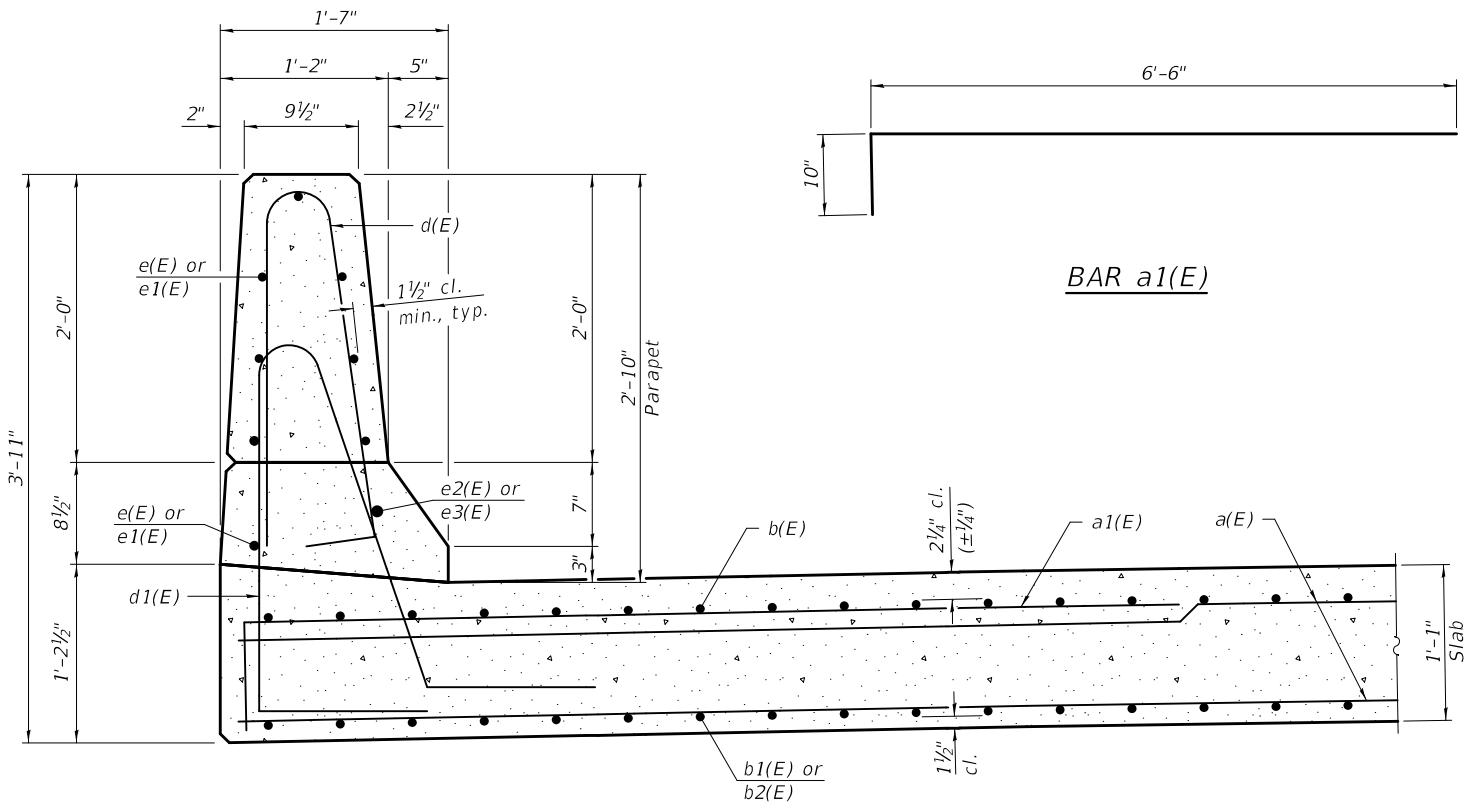
DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

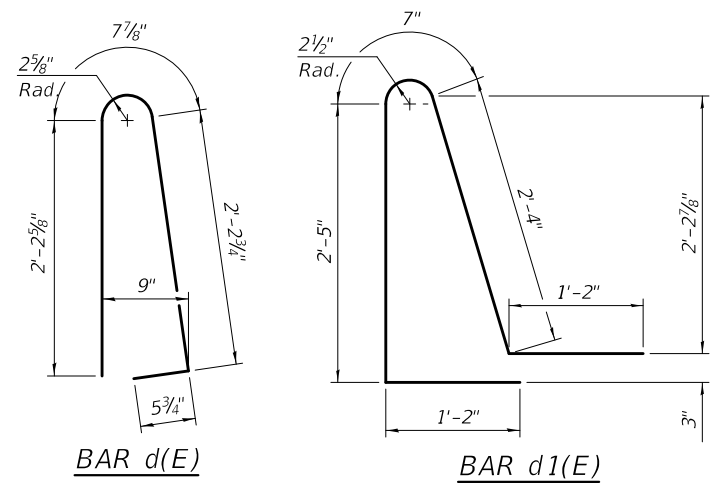
**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 018 - 0056**

SHEET 8 OF 20 SHEETS

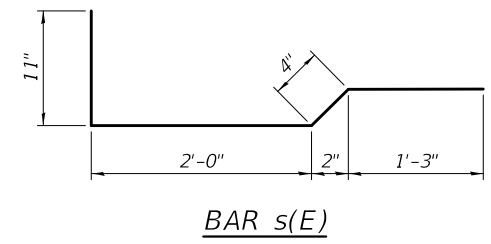
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	17
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				



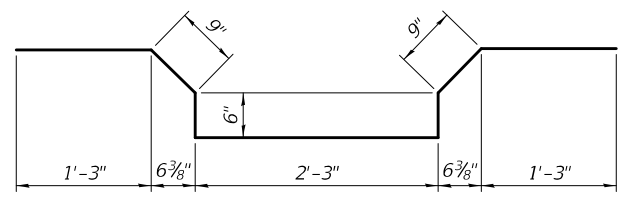
SECTION THRU PARAPET



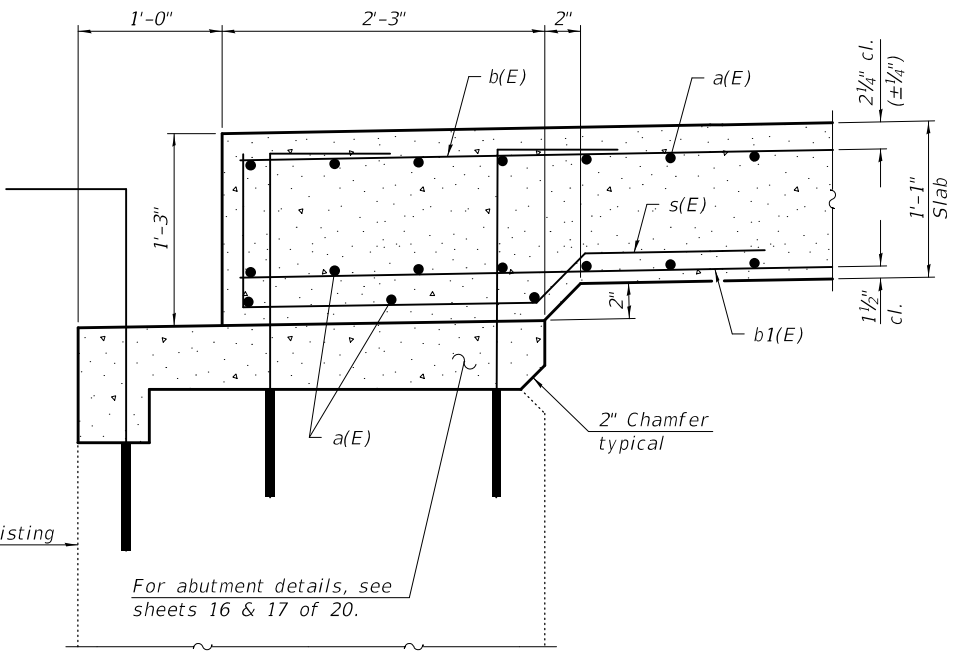
BAR d(E) BAR d1(E)



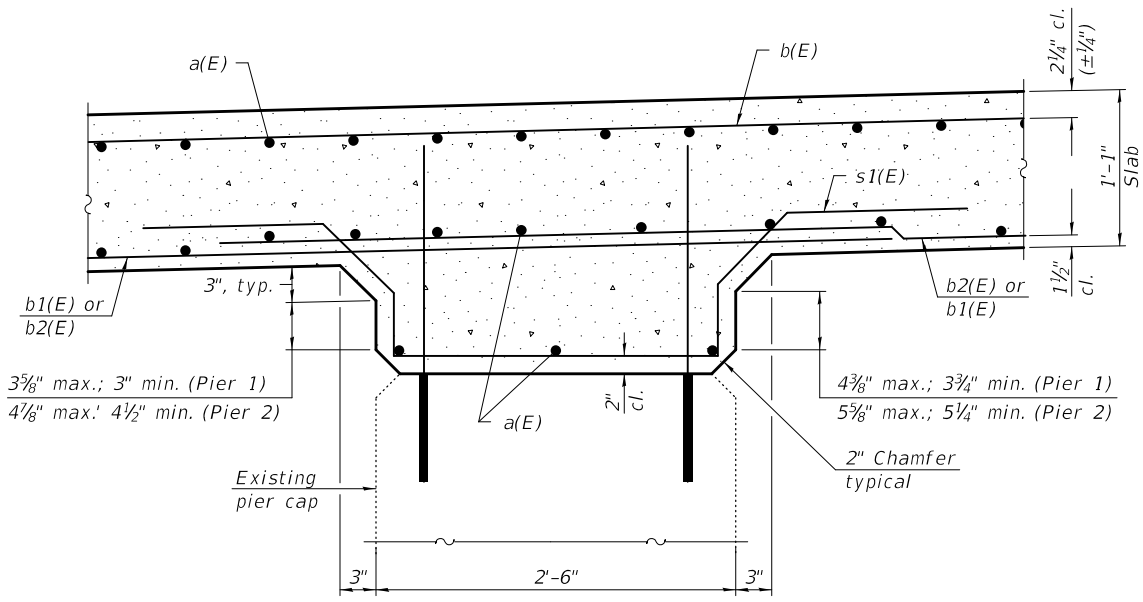
BAR s(E)



BAR s1(E)



SECTION A-A  
(North abutment shown;  
South abutment similar)



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	209	#7	34'-10"	—
a1(E)	174	#6	7'-4"	—
b(E)	140	#9	38'-7"	—
b1(E)	140	#9	26'-2"	—
b2(E)	70	#7	28'-6"	—
d(E)	158	#5	5'-7"	⌒
d1(E)	158	#5	7'-8"	⌒
e(E)	32	#4	23'-8"	—
e1(E)	16	#4	23'-5"	—
e2(E)	4	#8	23'-8"	—
e3(E)	2	#8	23'-5"	—
s(E)	72	#5	4'-6"	⌒
s1(E)	72	#5	7'-3"	⌒
Concrete Superstructure			Cu. Yd.	121.8
Reinforcement Bars, Epoxy Coated			Pound	55,920

MODEL: 0180056-74432-009  
 FILE NAME: p:\w\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\Bureau of Bridges and Structures\Projects\0180056\CADD Plans\0180056-74432.dgn  
 12/10/2018 2:53:47 PM

DESIGNED - ANDREW J. BAUER  
 CHECKED - JOSHUA M. ODORIZZI  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - A.J.B. / J.M.O.

EXAMINED  
 PASSED  
  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 07, 2018  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 018 - 0056

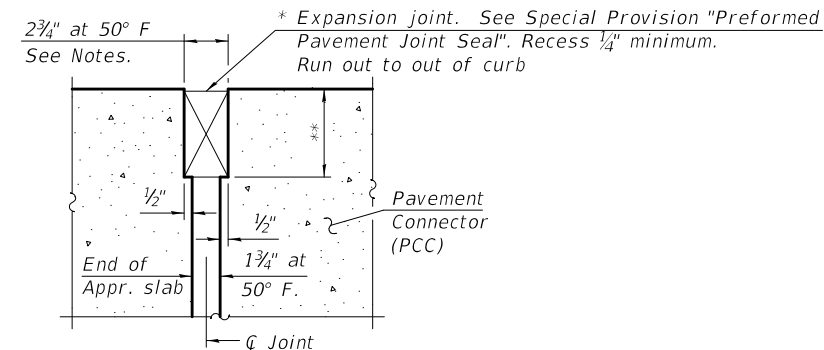
SHEET 9 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	18
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

Notes:  
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 20.

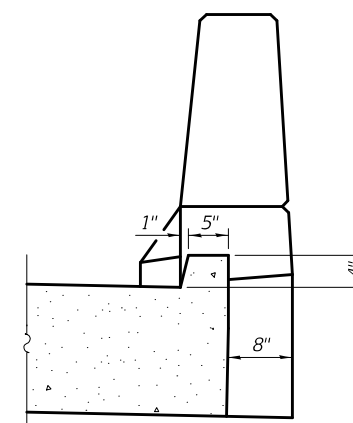
**TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING**

Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	571.59	570.76	575.12	574.29
B	571.69	570.86	575.22	574.39
C	571.87	571.04	575.40	574.57
D	571.69	570.86	575.22	574.39
E	571.59	570.76	575.12	574.29
F	571.53	570.70	575.66	574.83
G	571.63	570.80	575.76	574.93
H	571.81	570.98	575.94	575.11
I	571.63	570.80	575.76	574.93
J	571.53	570.70	575.66	574.83

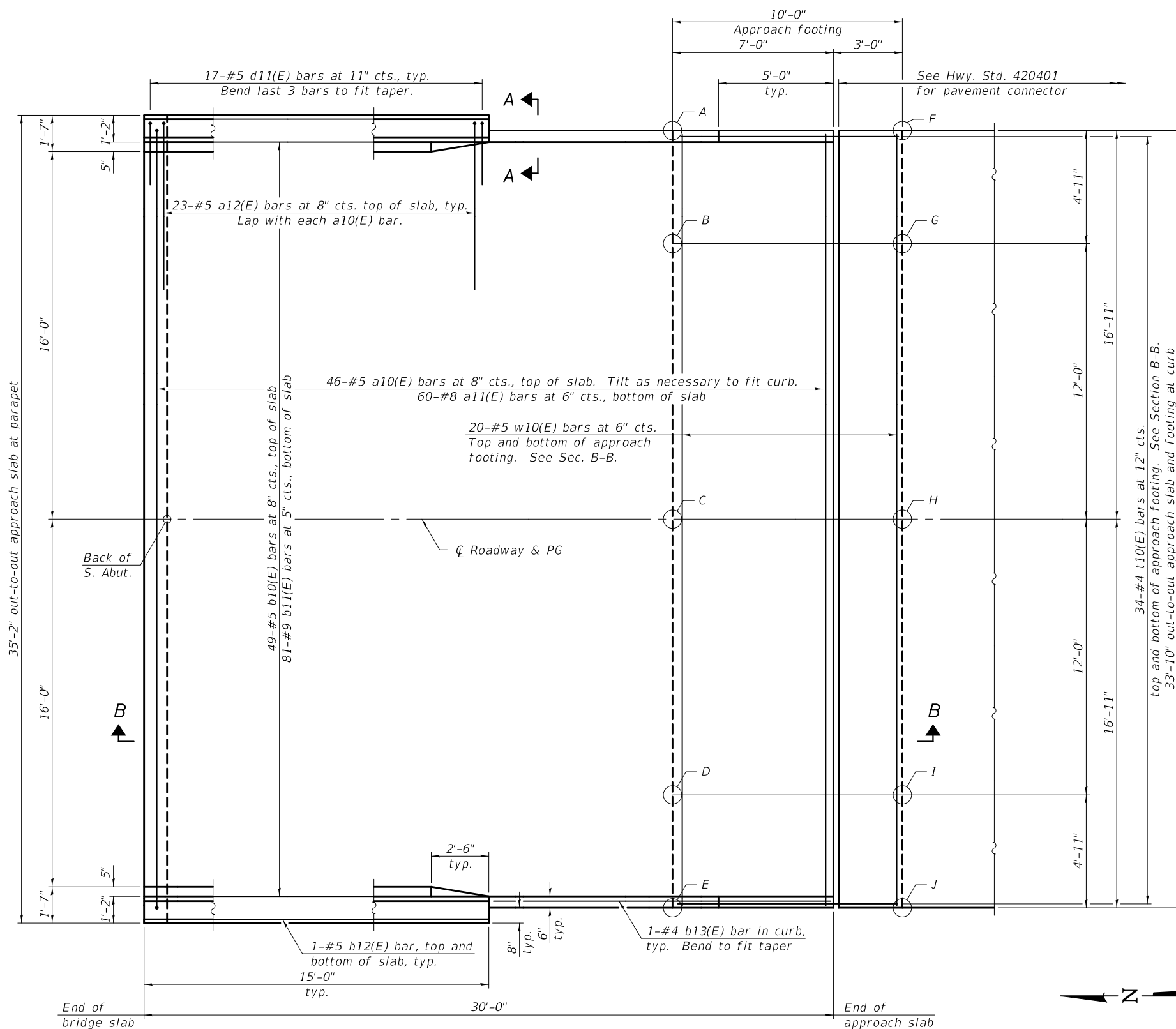


**DETAIL A**

\* Cost included with Concrete Superstructure (Approach Slab).  
 \*\* Per manufacturer recommendations



**SECTION A-A**



**PLAN**

(South approach shown; North approach mirror image)

MODEL: 0180056-74432-010  
 FILE NAME: pw:\084EBID\INTEG\Illinois\DOT Offices\Bureau of Bridges and Structures\Projects\0180056\CADD Plans\0180056-74432.dgn

DESIGNED - ANDREW J. BAUER  
 CHECKED - JOSHUA M. ODORIZZI  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - A.J.B. / J.M.O.

EXAMINED  
 PASSED  
 ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES

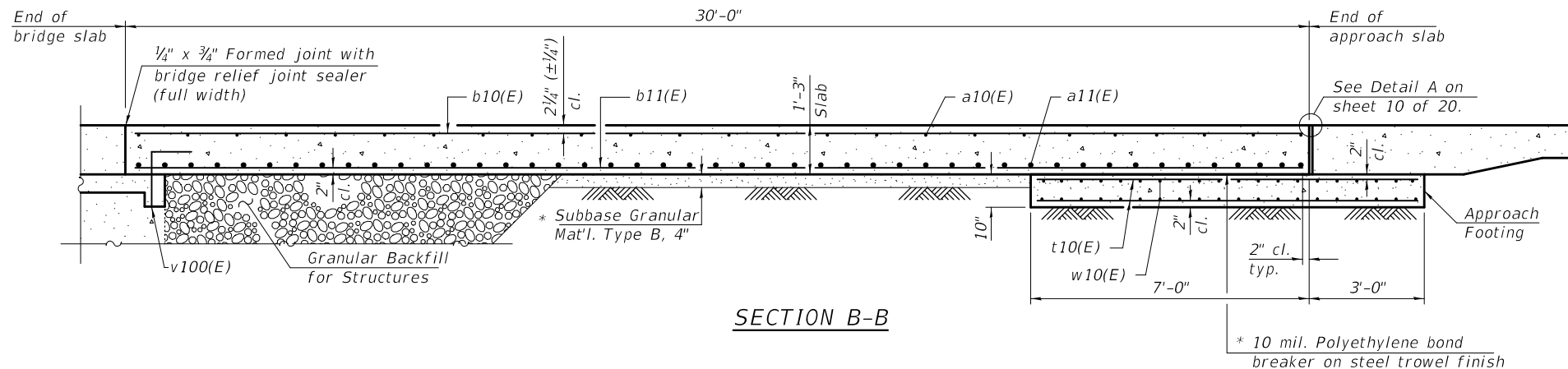
DATE - DECEMBER 07, 2018  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 018 - 0056**

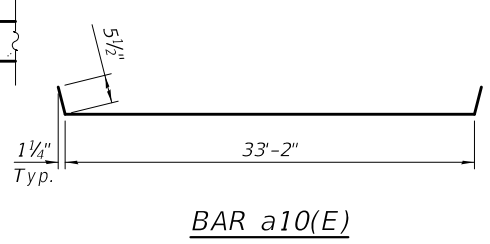
SHEET 10 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	19
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

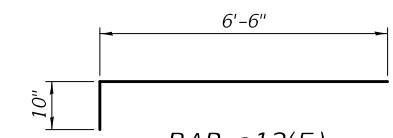


**SECTION B-B**

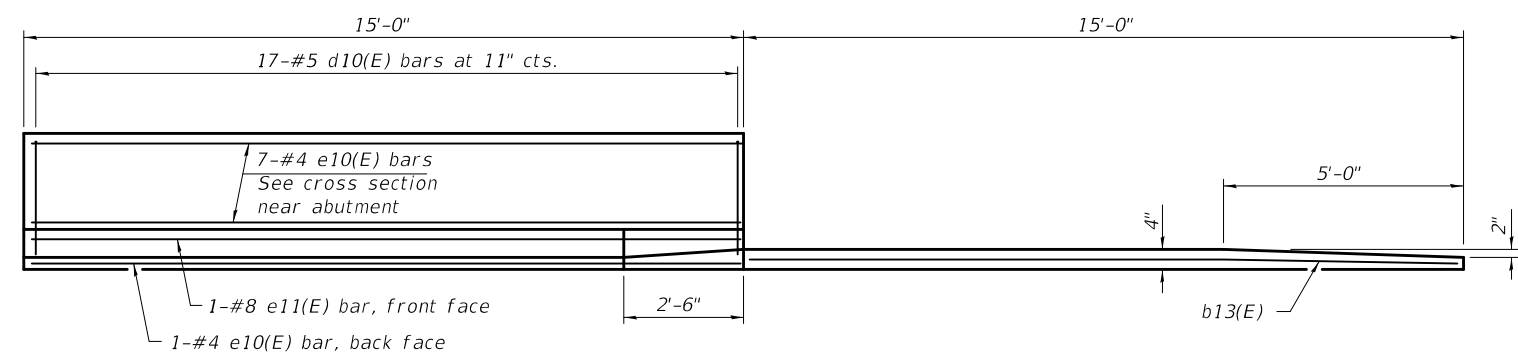
\* 10 mil. Polyethylene bond breaker on steel trowel finish



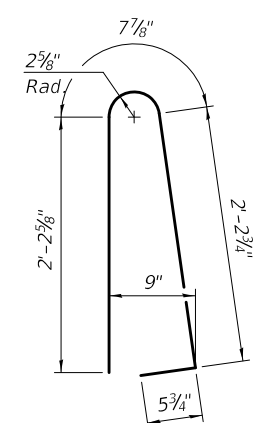
**BAR a10(E)**



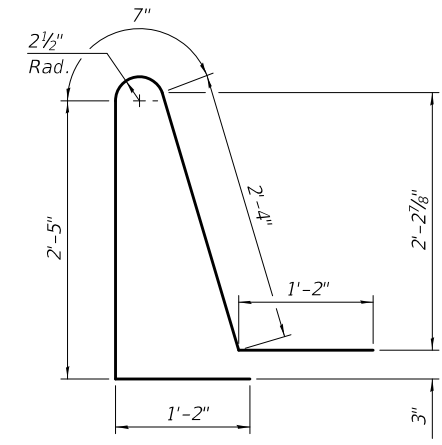
**BAR a12(E)**



**INSIDE ELEVATION OF PARAPET AND CURB**  
(East parapet shown; West parapet similar by 180° rotation).



**BAR d10(E)**

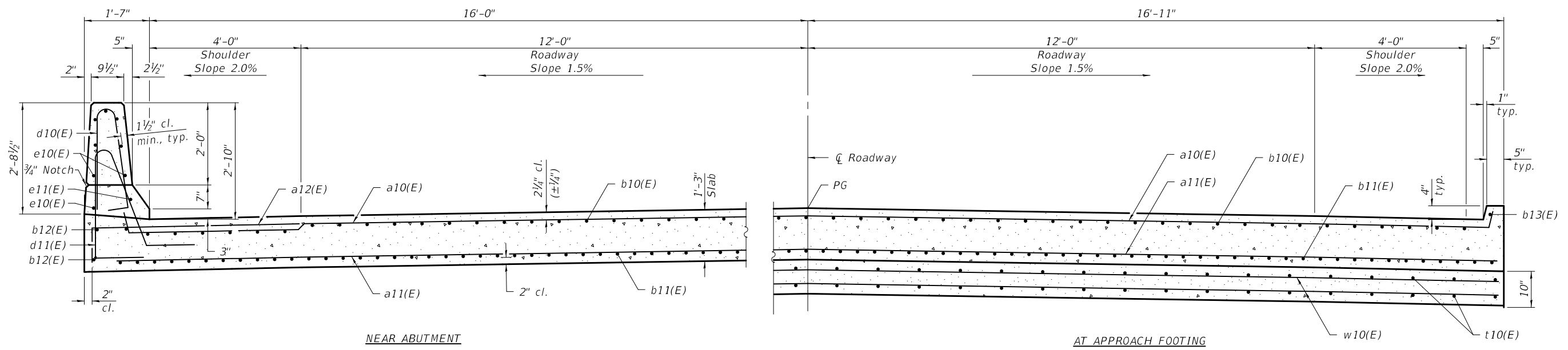


**BAR d11(E)**

**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	34'-1"	U
a11(E)	120	#8	33'-6"	U
a12(E)	92	#5	7'-4"	U
b10(E)	98	#5	29'-8"	U
b11(E)	162	#9	29'-8"	U
b12(E)	8	#5	14'-8"	U
b13(E)	4	#4	14'-8"	U
d10(E)	68	#5	5'-7"	U
d11(E)	68	#5	7'-8"	U
e10(E)	32	#4	14'-8"	U
e11(E)	4	#8	14'-8"	U
t10(E)	136	#4	9'-8"	U
w10(E)	80	#5	33'-6"	U
Concrete Superstructure			Cu. Yd.	6.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	96.0
Concrete Structures			Cu. Yd.	20.9
Reinforcement Bars, Epoxy Coated			Pound	39,560

\* Cost included with Concrete Superstructure (Approach Slab).



**CROSS SECTION**  
(Looking South)

(Sheet 2 of 2)

MODEL: 0180056-74432-011  
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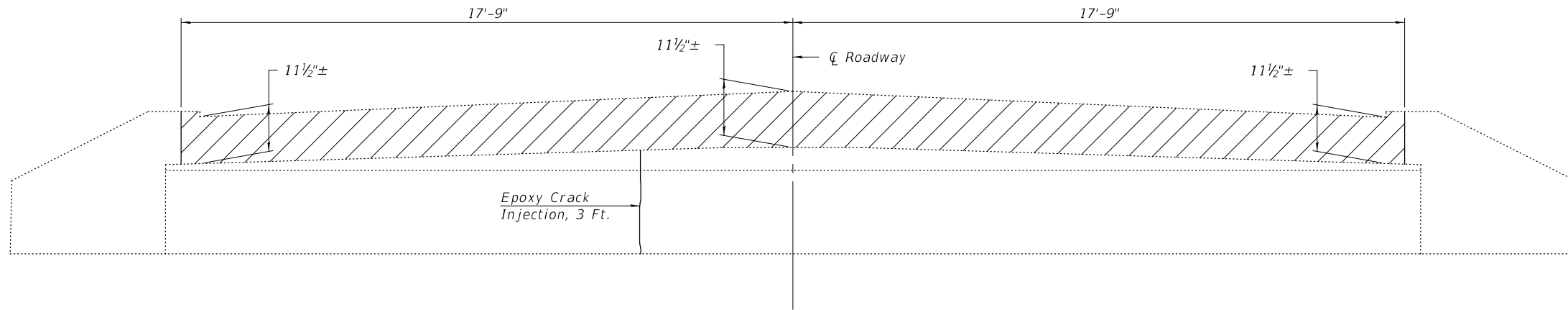
DESIGNED - ANDREW J. BAUER	EXAMINED - <i>Joanne F. Jaffe</i>	DATE - DECEMBER 07, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Kasper</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - A.J.B. / J.M.O.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

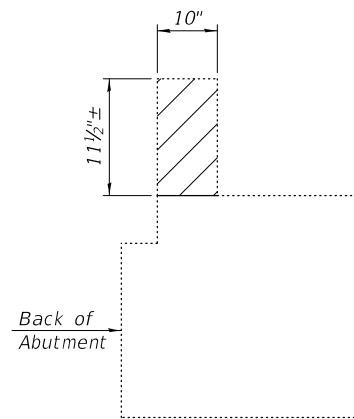
**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 018 - 0056**

SHEET 11 OF 20 SHEETS

F.A.P. RTE. 828	SECTION (12BR)BR	COUNTY CUMBERLAND	TOTAL SHEETS 46	SHEET NO. 20
CONTRACT NO. 74432				
ILLINOIS		FED. AID PROJECT		



ELEVATION



SECTION THRU ABUTMENT

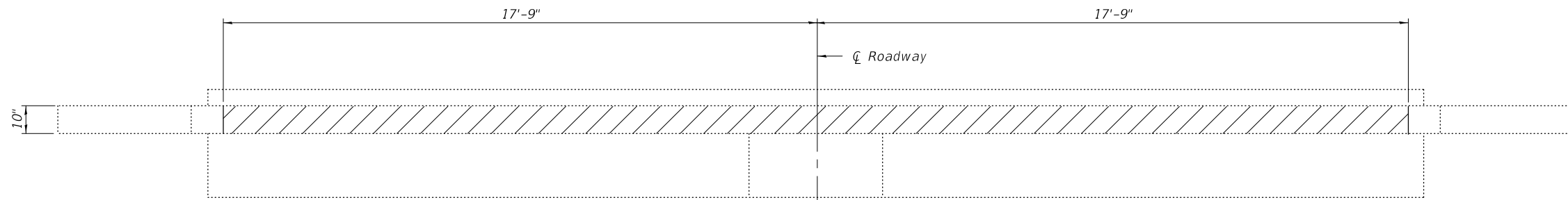
BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	3
Concrete Removal	Cu. Yd.	1.1

LEGEND



Concrete Removal



PLAN



MODEL: 0180056-74432-012  
FILE NAME: p:\w\1084EBID\INTEG\ilind5.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180056\0180056-74432.dgn

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED \_\_\_\_\_  
PASSED \_\_\_\_\_

*Jayne F. Jaffe*  
ENGINEER OF BRIDGE DESIGN

*Carl Kasper*  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 07, 2018

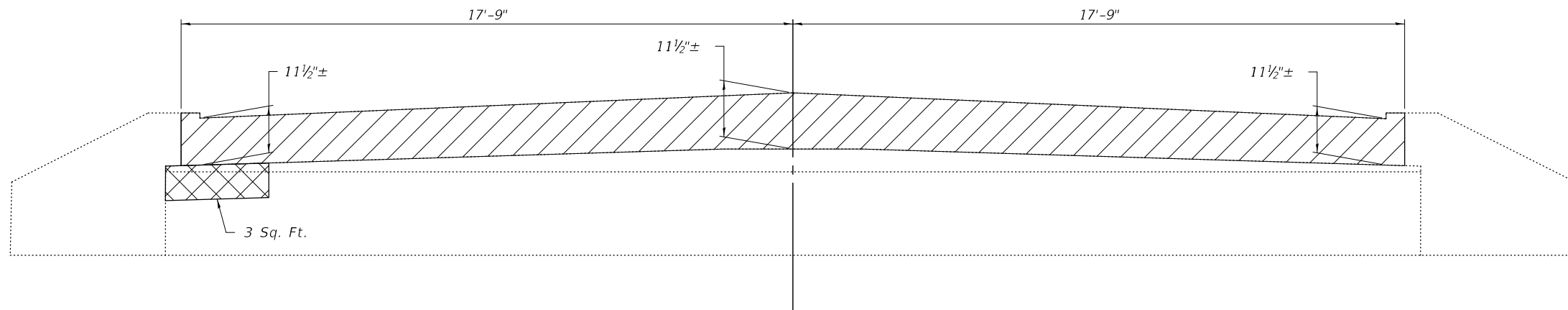
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

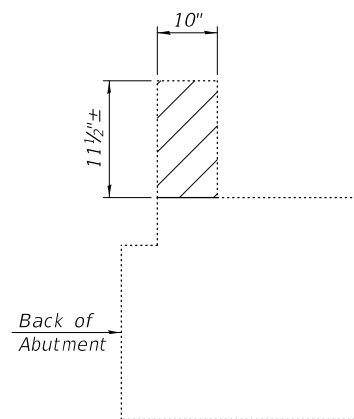
**NORTH ABUTMENT REMOVAL AND REPAIRS  
STRUCTURE NO. 018 - 0056**

SHEET 12 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	21
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				



ELEVATION



SECTION THRU ABUTMENT

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	1.1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	3

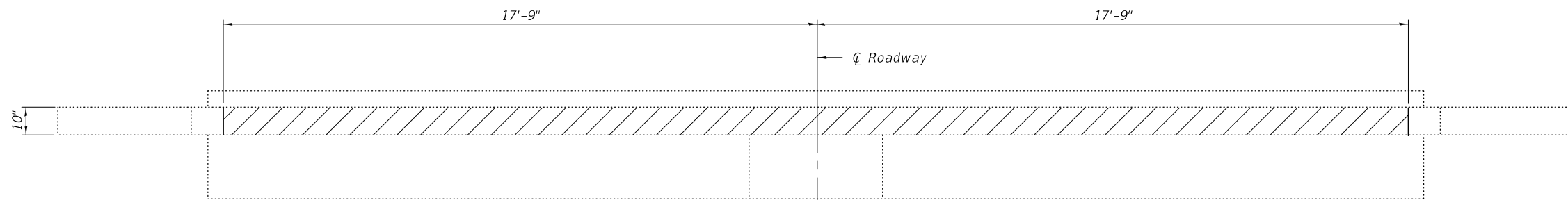


LEGEND

Concrete Removal



Structural Repair of Concrete  
(Depth Equal to or Less than 5 Inches)



PLAN

MODEL: 0180056-74432-013  
FILE NAME: p:\w\084EBID\INTEG\ilmds.gov\PW\DOT\Documents\Bureau of Bridges and Structures\Projects\0180056\CADD Plans\0180056-74432.dgn



DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	
PASSED	

DATE -	DECEMBER 07, 2018
REVISED -	
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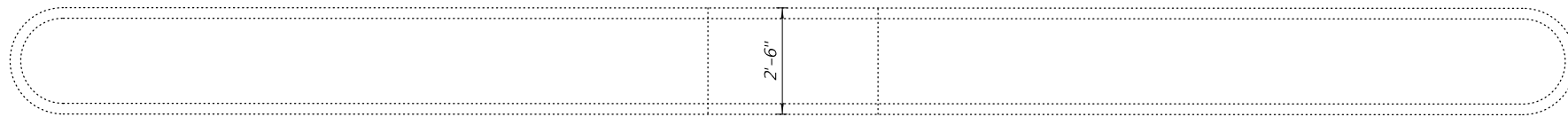
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT REMOVAL AND REPAIRS  
STRUCTURE NO. 018 - 0056**

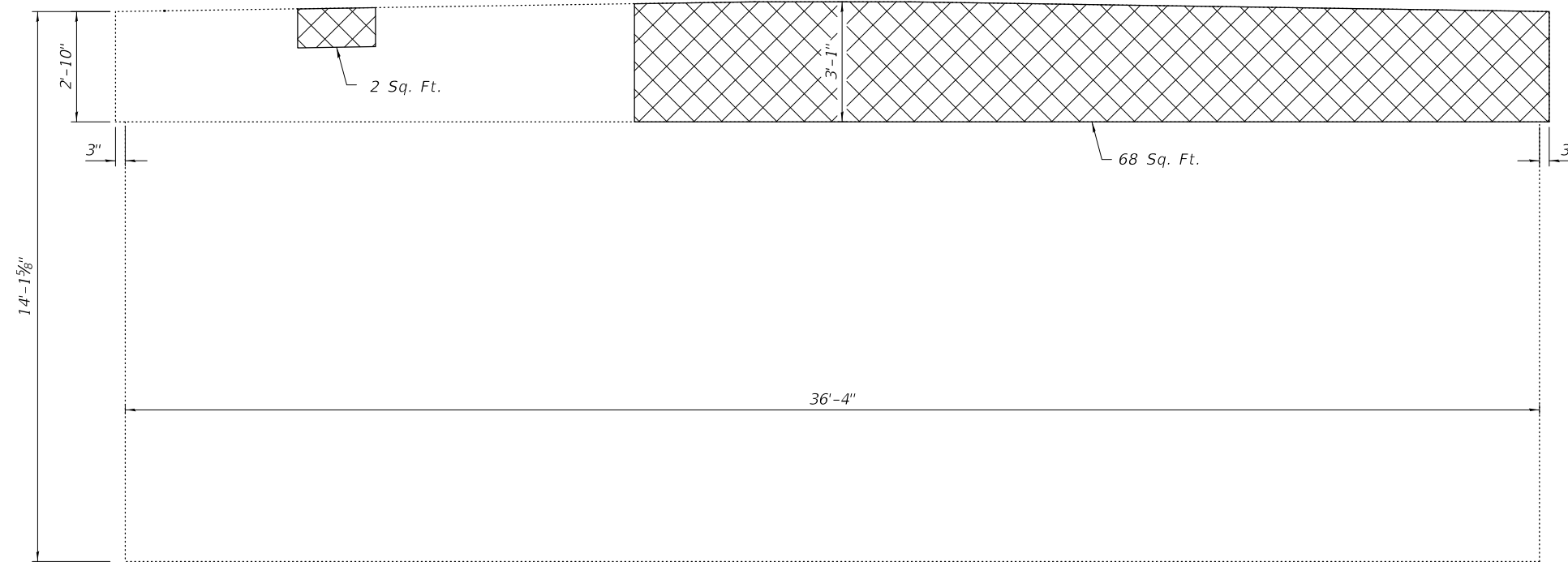
SHEET 13 OF 20 SHEETS

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828	(12BR)BR	CUMBERLAND	46	22
CONTRACT NO. 74432				

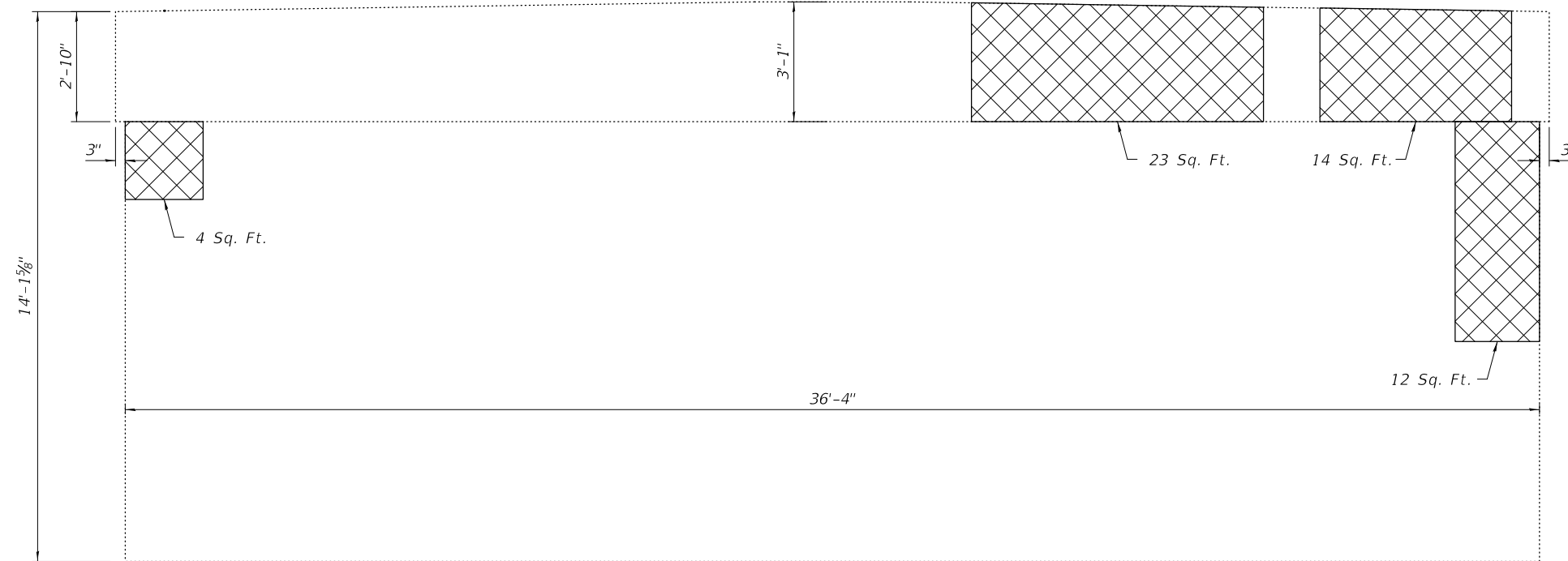
ILLINOIS FED. AID PROJECT



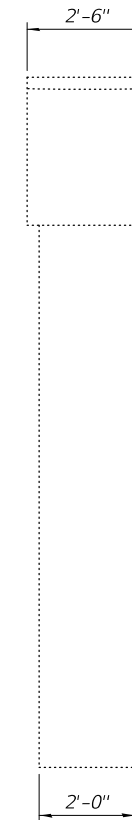
PLAN



NORTH ELEVATION



SOUTH ELEVATION



END VIEW

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	123

LEGEND



Structural Repair of Concrete  
(Depth Equal to or Less than 5 Inches)

MODEL: 0180056-74432-014  
FILE NAME: p:\v\084EBID\INTEG\Illinois.gov\PW\DOT\Documents\Projects\0180056\CADD Plans\0180056-74432.dgn

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED		DATE -	DECEMBER 07, 2018
PASSED		REVISER -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -	

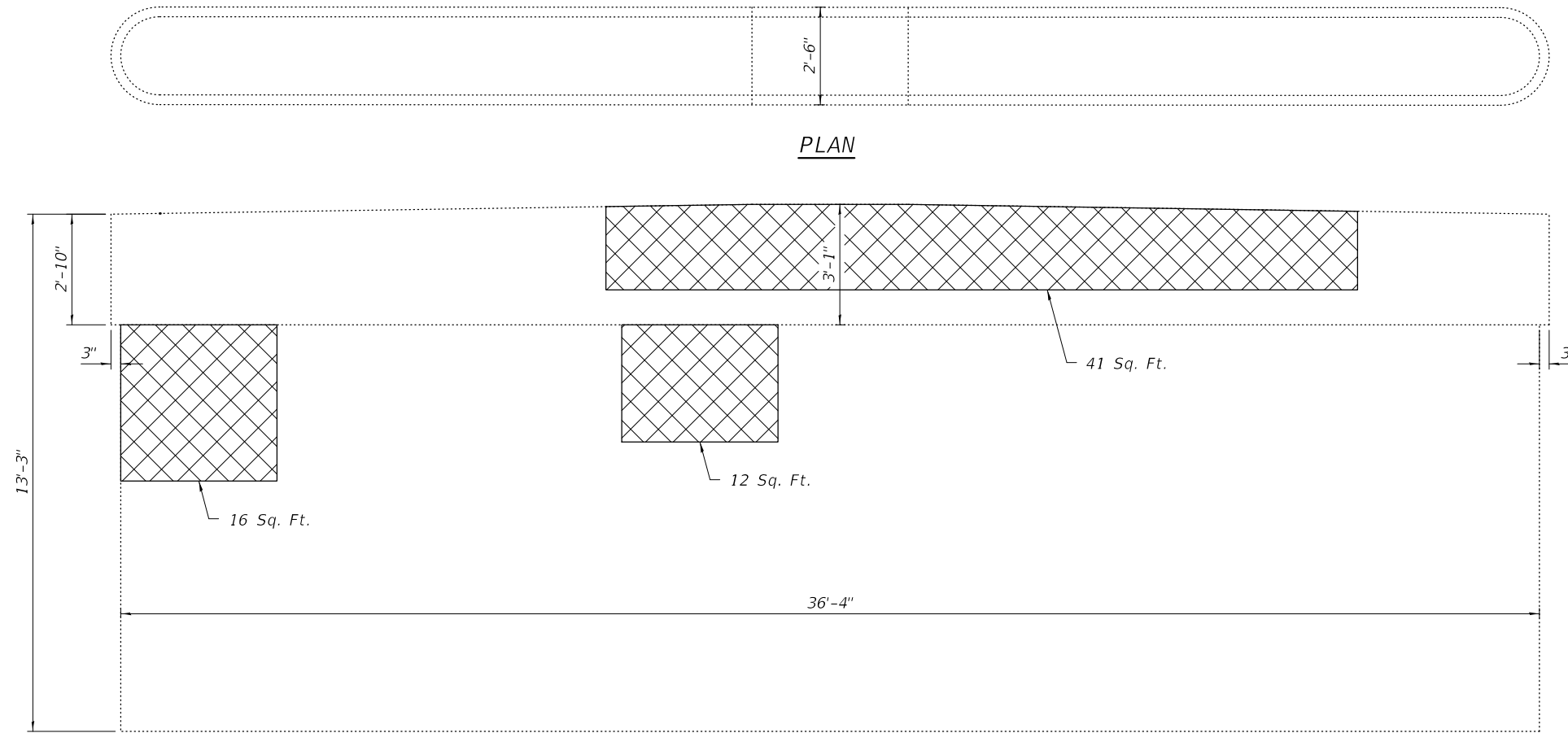
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER 1 REPAIRS  
STRUCTURE NO. 018 - 0056

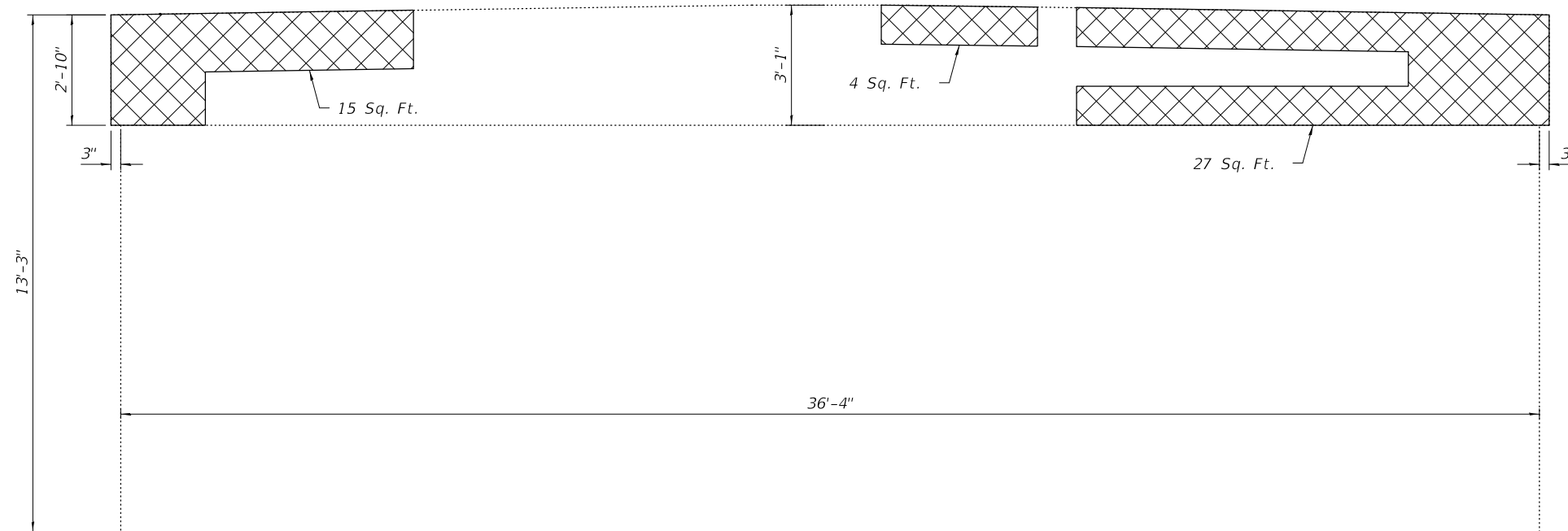
SHEET 14 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	23
CONTRACT NO. 74432				
ILLINOIS		FED. AID PROJECT		

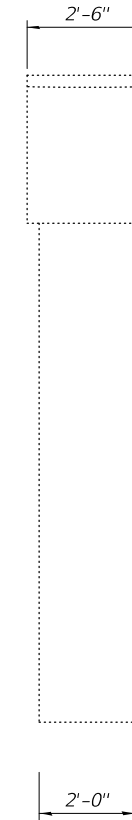
PLAN



NORTH ELEVATION



SOUTH ELEVATION



END VIEW

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	115

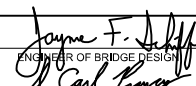

LEGEND



Structural Repair of Concrete  
(Depth Equal to or Less than 5 Inches)

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DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	
PASSED	

DATE -	DECEMBER 07, 2018
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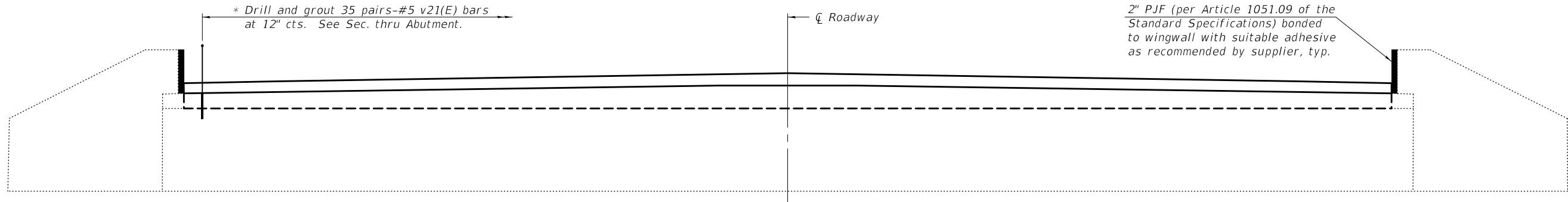
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS  
STRUCTURE NO. 018 - 0056**

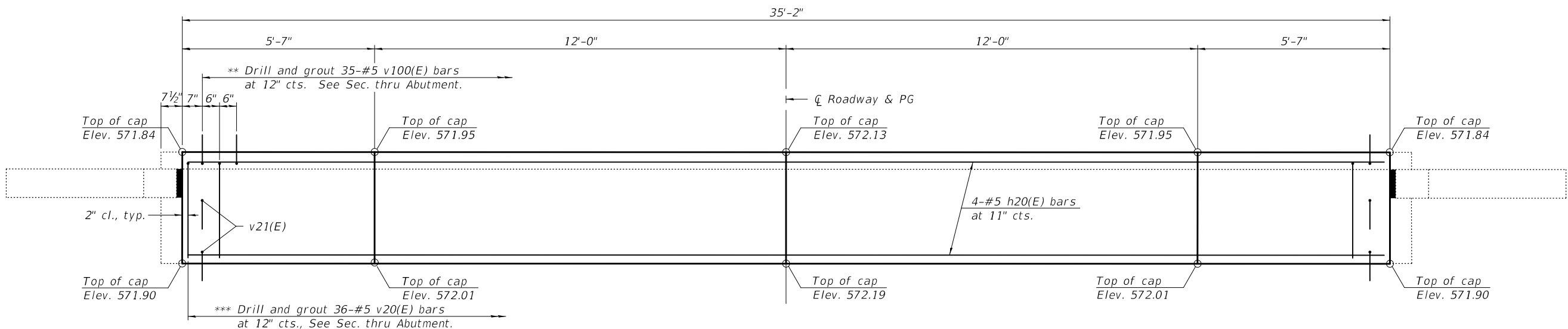
SHEET 15 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	24
CONTRACT NO. 74432				
ILLINOIS		FED. AID PROJECT		

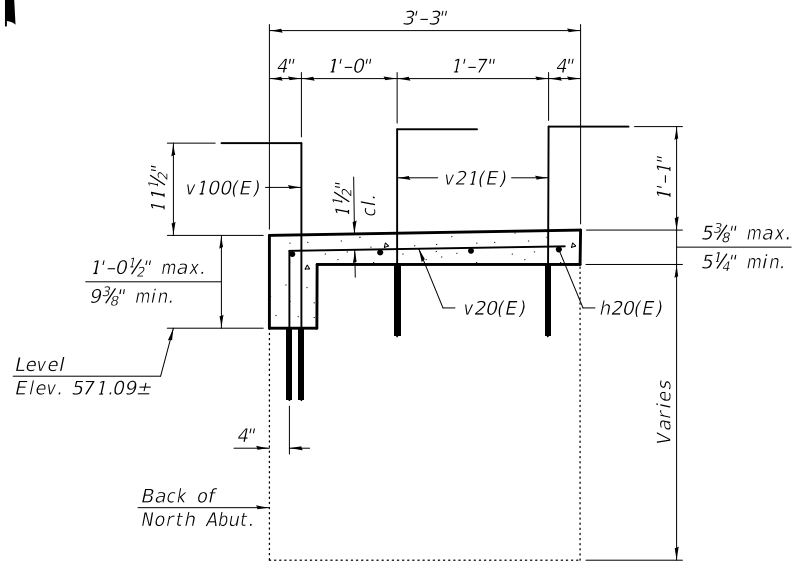
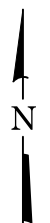




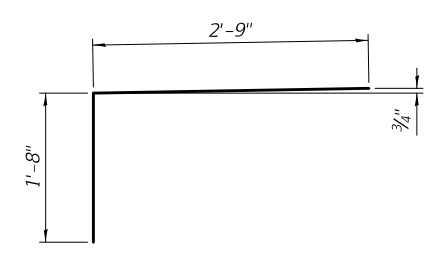
ELEVATION



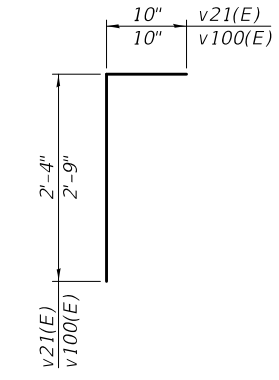
PLAN



SECTION THRU ABUTMENT



BARS v20(E)



BARS v21(E) & v100(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	4	#5	34'-10"	—
v20(E)	36	#5	4'-5"	┌
v21(E)	70	#5	3'-2"	┌
v100(E)	35	#5	3'-7"	┌
Concrete Structures			Cu. Yd.	2.2
Reinforcement Bars, Epoxy Coated			Pound	680

\* 9" minimum embedment into existing abutment cap. Cut bars as required to maintain 1'-1" vertical dimension above proposed concrete cap.

\*\* 9" minimum embedment into existing abutment cap. Cut bars as required to maintain 11 1/2" dimension above concrete cap.

\*\*\* 9" minimum embedment into existing abutment cap.

MODEL: 0180056-74432-016  
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DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED \_\_\_\_\_  
 PASSED \_\_\_\_\_  
 ENGINEER OF BRIDGES AND STRUCTURES

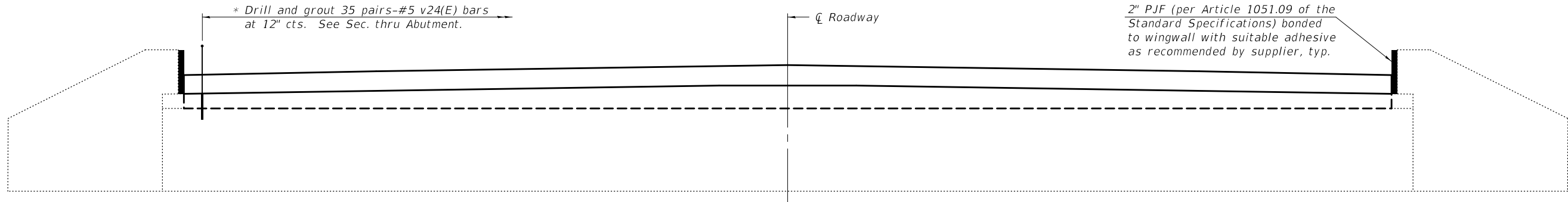
DATE - DECEMBER 07, 2018  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

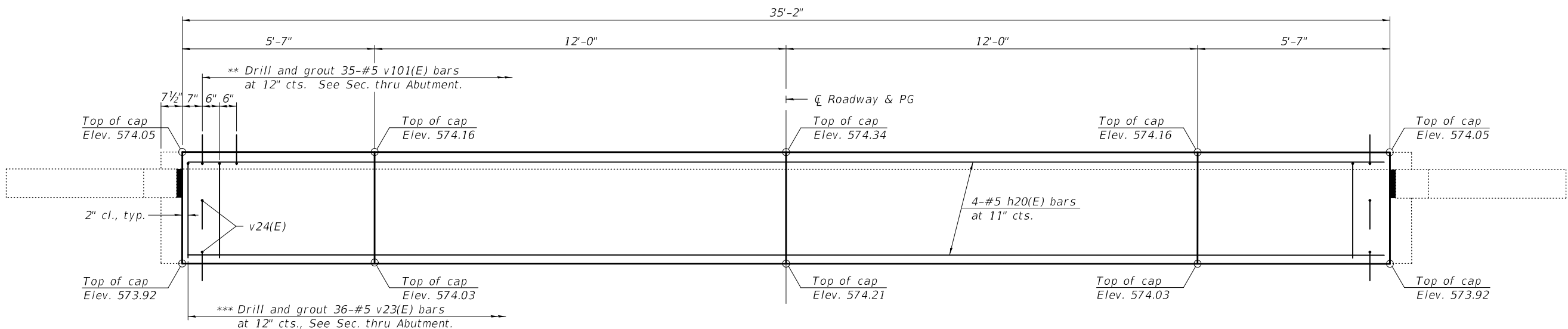
NORTH ABUTMENT  
 STRUCTURE NO. 018 - 0056

SHEET 16 OF 20 SHEETS

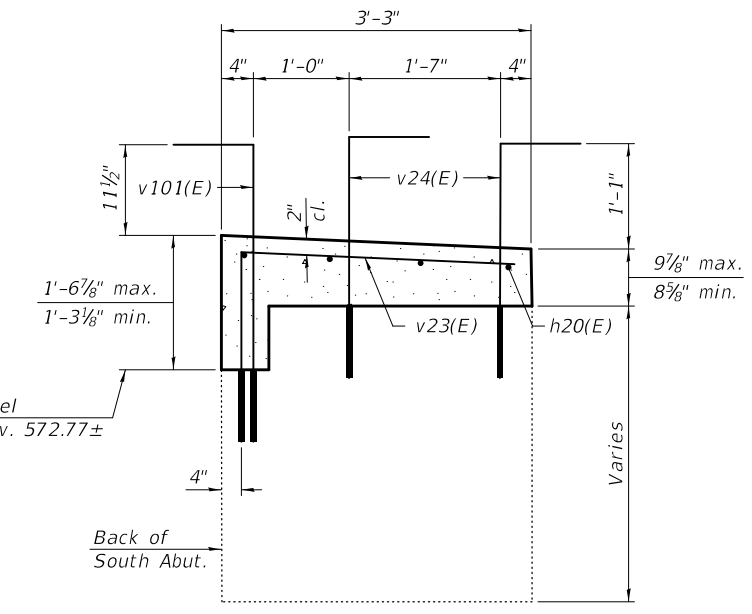
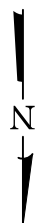
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	25
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				



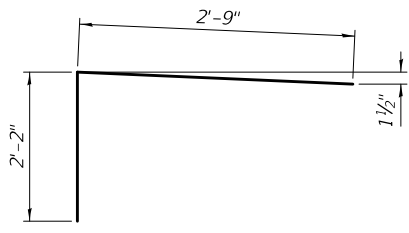
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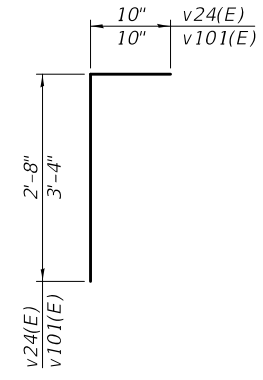
PLAN



SECTION THRU ABUTMENT



BARS v23(E)



BARS v24(E) & v101(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	4	#5	34'-10"	—
v23(E)	36	#5	4'-11"	┌
v24(E)	70	#5	3'-6"	┌
v101(E)	35	#5	4'-2"	┌
Concrete Structures			Cu. Yd.	3.7
Reinforcement Bars, Epoxy Coated			Pound	750

- \* 9" minimum embedment into existing abutment cap. Cut bars as required to maintain 1'-1" vertical dimension above proposed concrete cap.
- \*\* 9" minimum embedment into existing abutment cap. Cut bars as required to maintain 11 1/2" dimension above concrete cap.
- \*\*\* 9" minimum embedment into existing abutment cap.

MODEL: 0180056-74432-017  
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DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED \_\_\_\_\_  
PASSED \_\_\_\_\_  
ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

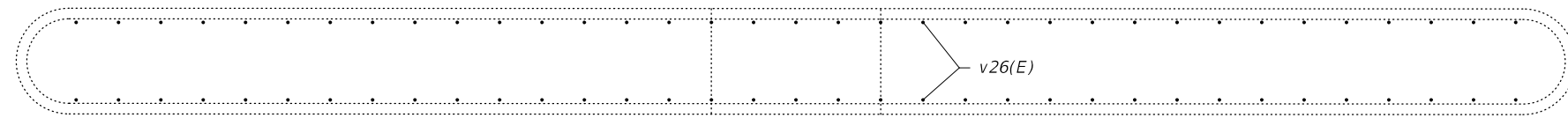
SOUTH ABUTMENT  
STRUCTURE NO. 018 - 0056

SHEET 17 OF 20 SHEETS

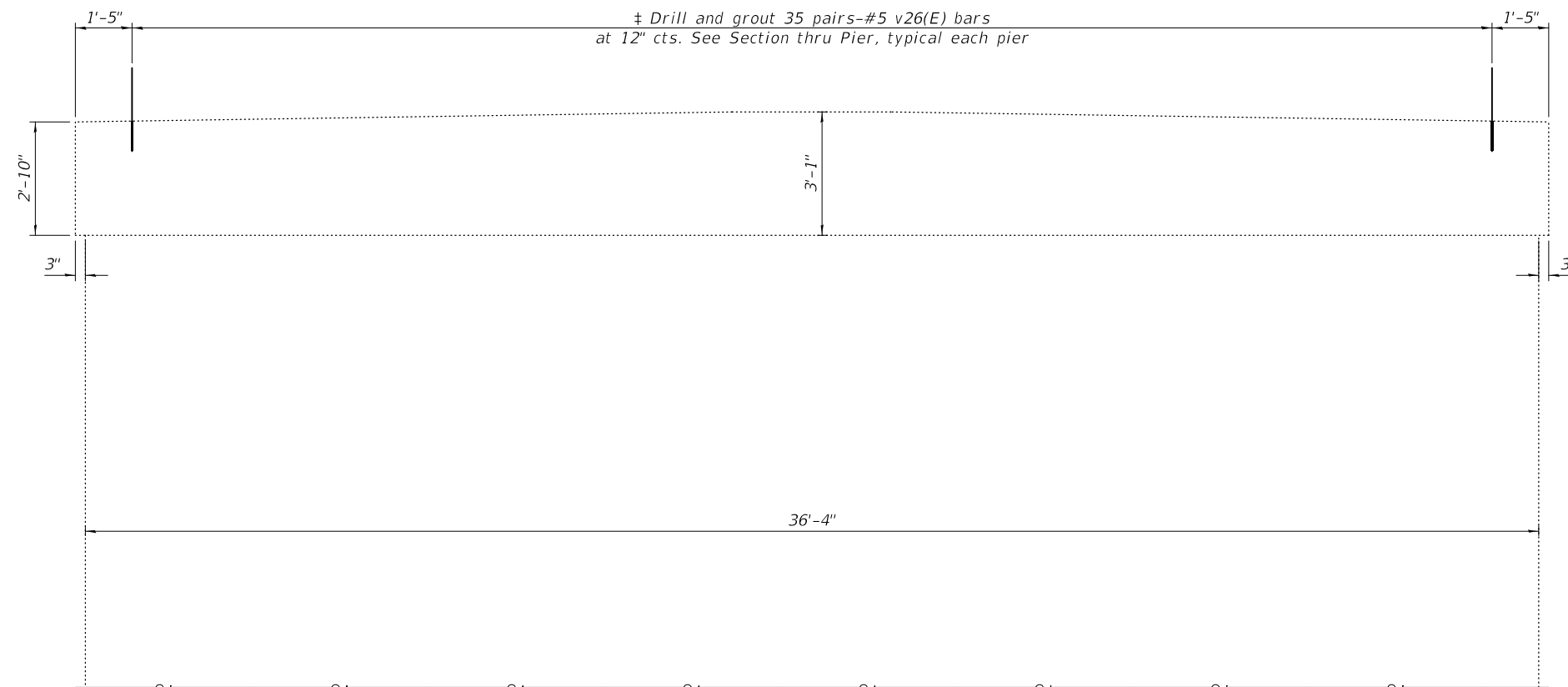
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828	(12BR)BR	CUMBERLAND	46	26
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

**TWO PIERS  
BILL OF MATERIAL**

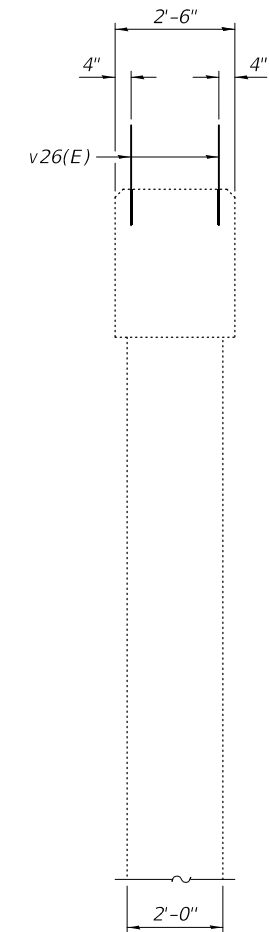
Bar	No.	Size	Length	Shape
v26(E)	140	#5	2'-1"	
Reinforcement Bars, Epoxy Coated			Pound	310



PLAN



ELEVATION

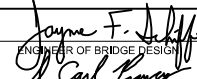



SECTION THRU  
PIER

± 9" minimum embedment into existing pier cap.

MODEL: 0180056-74432-018  
FILE NAME: p:\w\084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180056\CADD Plans\0180056-74432.dgn

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	
PASSED	

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

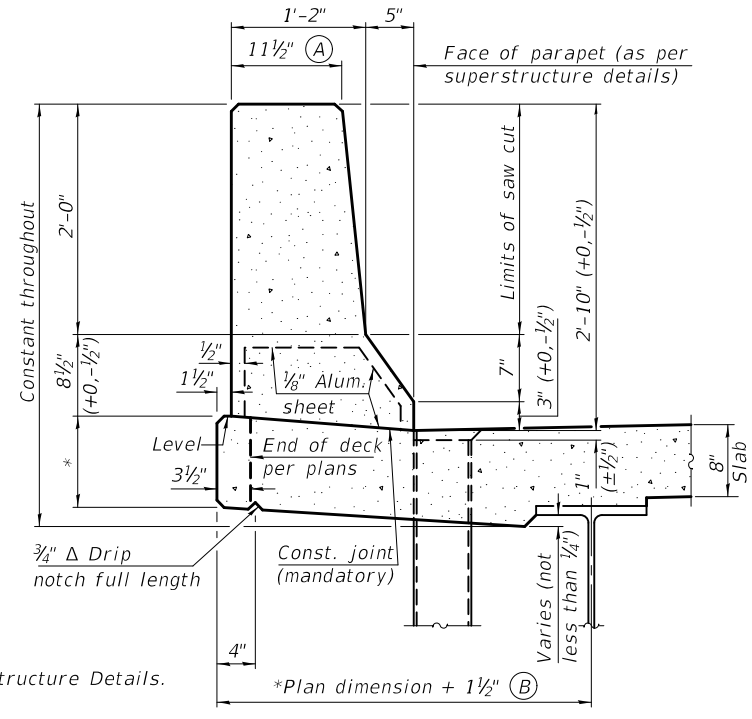
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIERS 1 & 2  
STRUCTURE NO. 018 - 0056**

SHEET 18 OF 20 SHEETS

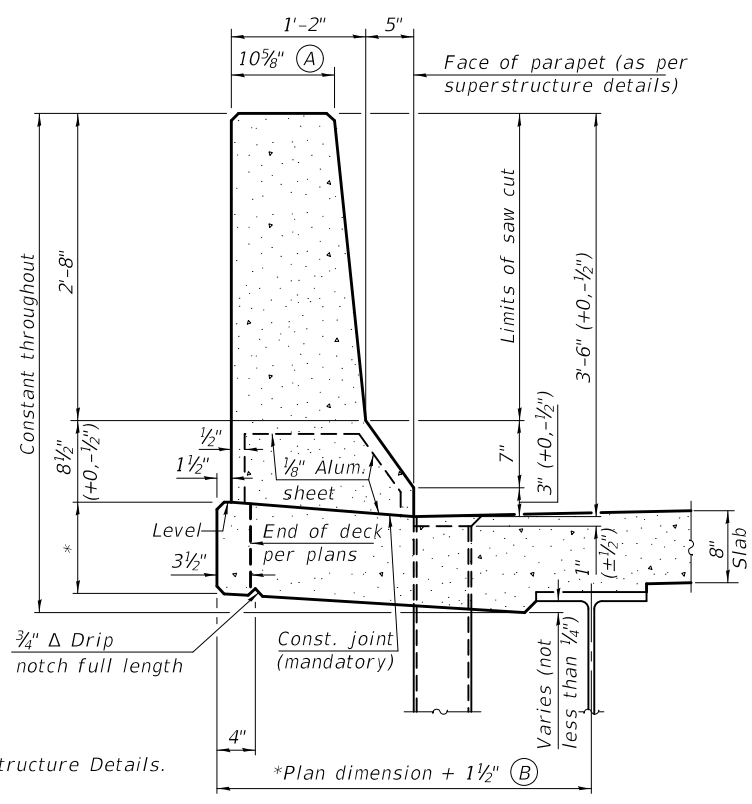
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	27
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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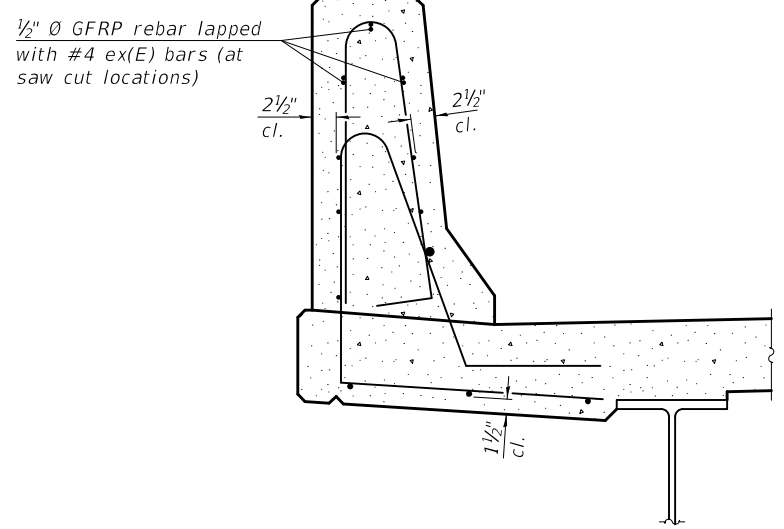
**34" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.



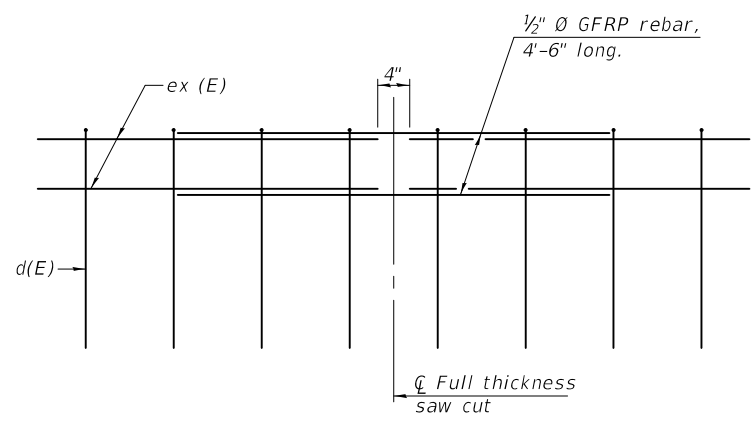
**42" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.



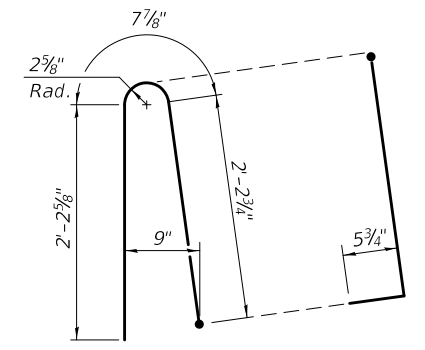
**SECTION**

(34" parapet shown - 42" parapet similar)  
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

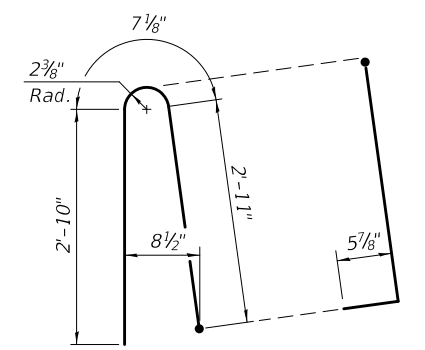


**GFRP REBAR STIFFENING DETAIL**

(Place as shown in parapet section at each parapet joint location.)



**ALTERNATE BAR d(E)**  
(For 34" parapet when conduit is present)



**ALTERNATE BAR d(E)**  
(For 42" parapet when conduit is present)

**GENERAL NOTES**

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.

DESIGNED -	ANDREW J. BAUER
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	A.J.B. / J.M.O.

EXAMINED	<i>Joanne F. Joffe</i>
PASSED	<i>Carl Perry</i>

DATE -	DECEMBER 07, 2018
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION  
STRUCTURE NO. 018 - 0056**

SHEET 19 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	28
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

Page 1 of 1

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

## SOIL BORING LOG

Date 4/10/80

ROUTE F.A.P. Rte 828 DESCRIPTION Brush Creek LOGGED BY R. D. Metheney

SECTION (12 BR)BR LONGITUDE 88.37793795 LATITUDE 39.25457522

COUNTY Cumberland DRILLING METHOD \_\_\_\_\_ HAMMER TYPE \_\_\_\_\_

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.		D E P T H	B L O W S	U C S Qu	M O I S T
					ft	ft				
018-0056 180+05										
BORING NO. <u>1 N. Abut.</u> Station <u>179+68</u> Offset <u>6.00ft Rt.</u> Ground Surface Elev. <u>579.6</u> ft										
	(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)
Existing I-11 Pavement (1' +/-)						559.10				
Stiff, damp, Clay Till	10	1.3	12				16	1.8	19	
		E						S		
Stiff, Sandy Clay Shale										
Medium, damp, Clay with thick lenses of Coarse Sand	4	0.6	15			556.60	45	2.8	19	
		S						S		
Medium, damp to very damp, Clay (considerable sand content and Organic with Wood)	-5					-25				
Very dense (hard), very moist, Clay Shale	7	0.8	18			554.10	*	5.0	10	
		S						S		
*4 3/4" penetration for 100 blows										
**2 1/4" penetration for 100 blows										
Soft, very damp, Clay Loam (Organic with Wood)	3	0.4	26				**		8	
		S								
Soft, very damp to wet, Clay to Clay Loam (Organic with Odor)	-10					-30				
Water encountered at Elevation 567.6										
Medium, very damp, Clay with thin Sand Lenses	5	0.7	42							
		S								
Very stiff, damp, Clay Till (Organic with Wood)	14	3.2	15							
		S								
	23	3.5	21							
		S								
	-20					-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 11-11)

Page 1 of 1

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

## SOIL BORING LOG

Date 4/10/80

ROUTE F.A.P. Rte 828 DESCRIPTION Brush Creek LOGGED BY R. D. Metheney

SECTION (12 BR)BR LONGITUDE 88.37793795 LATITUDE 39.25457522

COUNTY Cumberland DRILLING METHOD \_\_\_\_\_ HAMMER TYPE \_\_\_\_\_

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.		D E P T H	B L O W S	U C S Qu	M O I S T
					ft	ft				
018-0056 180+05										
BORING NO. <u>2 S. Abut.</u> Station <u>180+16</u> Offset <u>6.00ft Lt.</u> Ground Surface Elev. <u>581.4</u> ft										
	(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)
Existing I-11 Pavement (1' +/-)						560.90				
Stiff, damp, Clay Till with very thin Sand Lenses	10	1.6	13				**		9	
		S								
Very dense, moist, Sandstone										
Medium, damp, Clay with thick lenses of Coarse Sand	8	1.5	14			559.40				
		S								
Very dense, moist, Clay Shale with very thin lenses of Sandstone										
Soft, very damp, Clay (considerable sand content)	-5					-25				
Extent of exploration										
*4" penetration for 100 blows										
**2 1/4" penetration for 100 blows										
Medium, damp, sandy Clay Loam with 2'+/- thick lenses of Sand	4	0.5	18			557.40	***		8	
		S								
Water encountered at Elevation 568.4										
Soft, very damp, Clay Loam with very thin Sand Lenses (Organic with Wood)	8	0.8	16							
		S								
Soft, very damp, Clay Loam with very thin Sand Lenses (Organic with Wood)	4	0.4	25							
		S								
Soft, wet, sandy Clay Loam with 1" +/- thick lenses of wet Sand (Organic with Wood)	3	0.3	20							
		S								
Loose, water bearing, Sand with 1/2" size gravel	-15					-35				
Stiff, very damp, Clay	10	1.1	17							
		S								
Very dense, very moist to damp, weathered, Clay Shale										
	*	2.3	12							
		S								
	-20					-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 11-11)

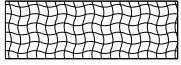


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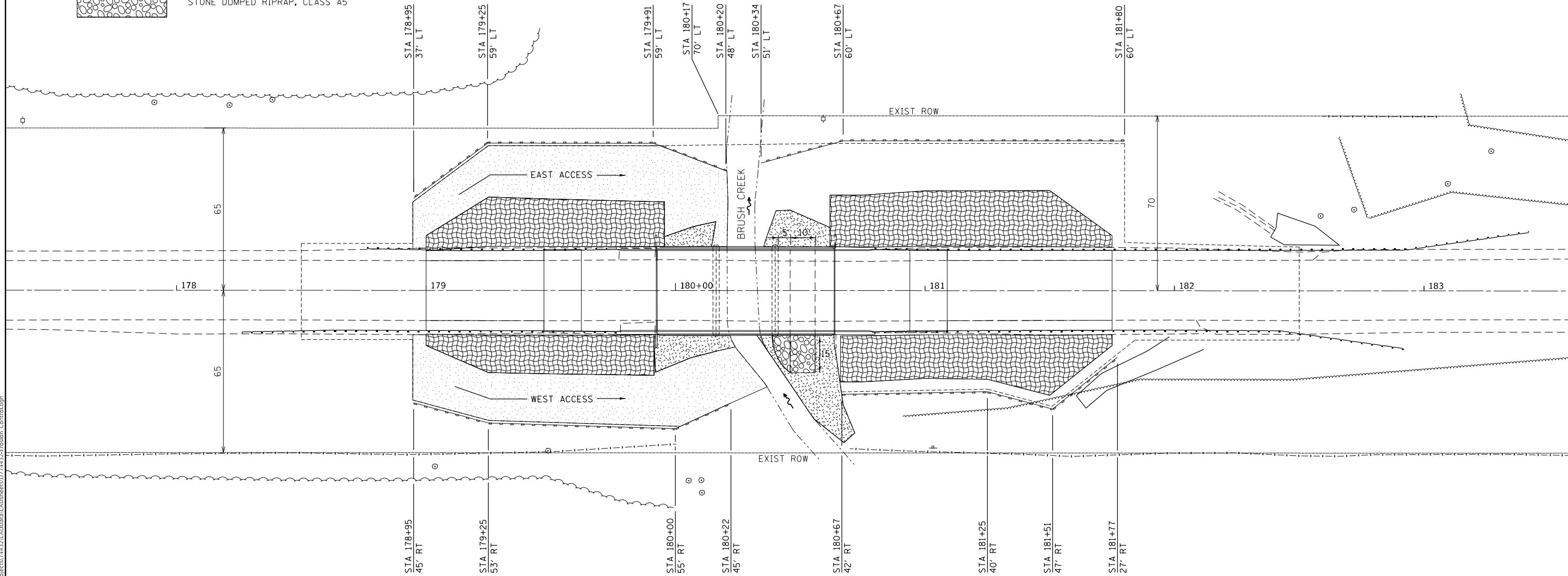
DESIGNED - ANDREW J. BAUER	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - DECEMBER 07, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>[Signature]</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - A.J.B. / J.M.O.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS	
STRUCTURE NO. 018 - 0056	
SHEET 20	OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	29
CONTRACT NO. 74432				
		ILLINOIS	FED. AID PROJECT	

- CONSTRUCTION LIMITS
- PERIMETER EROSION BARRIER
-  SEEDING CLASS 2 (SPECIAL) AND EROSION CONTROL BLANKET
-  SEEDING CLASS 2 (SPECIAL)
-  STONE DUMPED RIPRAP, CLASS A5



MODEL: Default  
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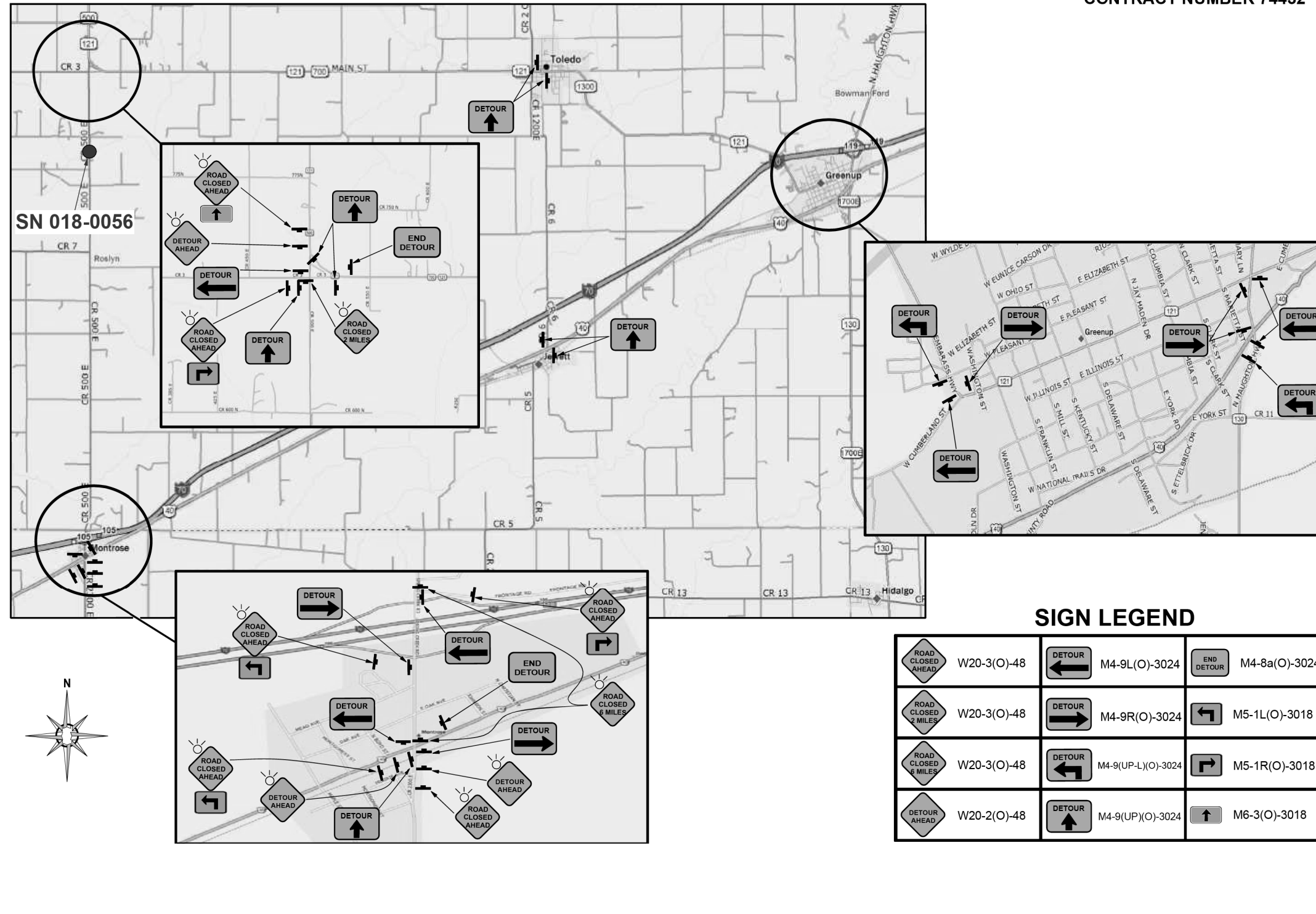
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PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN</b>			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	30
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

CONTRACT NUMBER 74432



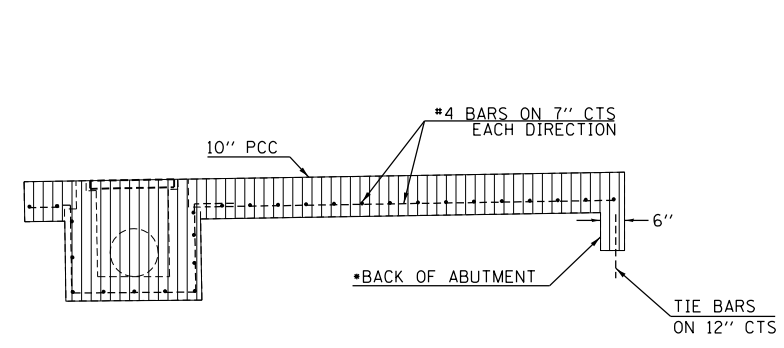
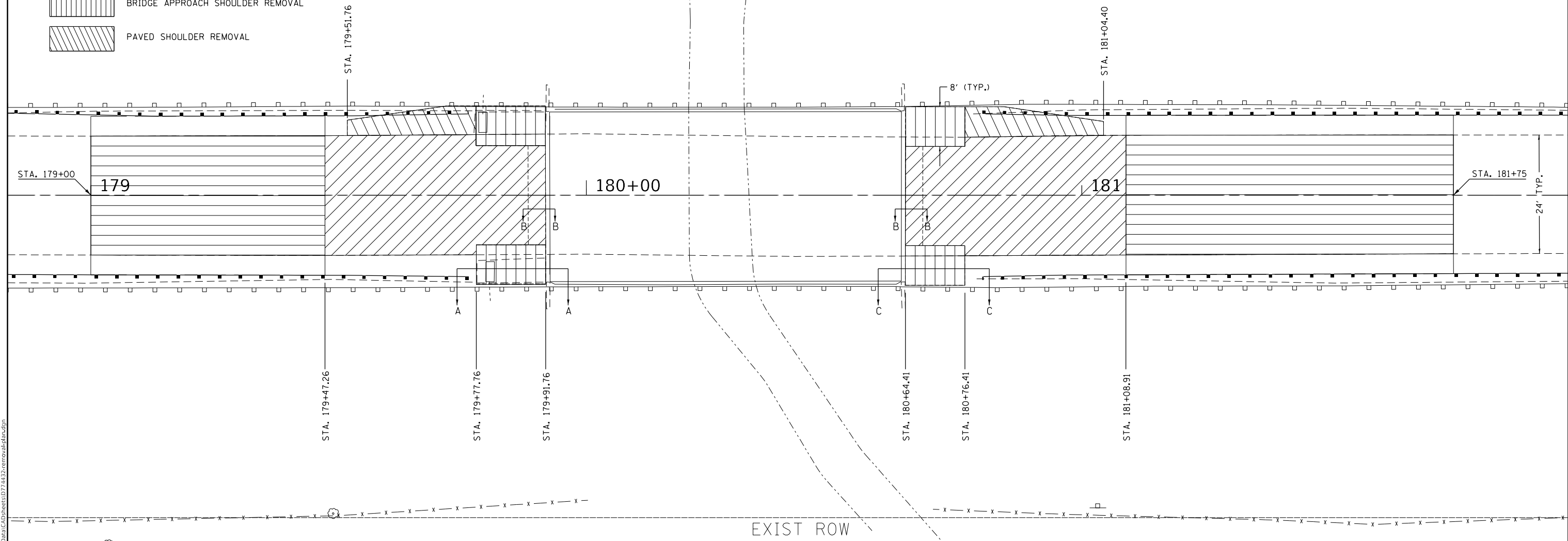
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	W20-3(O)-48		M4-9(UP-L)(O)-3024		M5-1R(O)-3018
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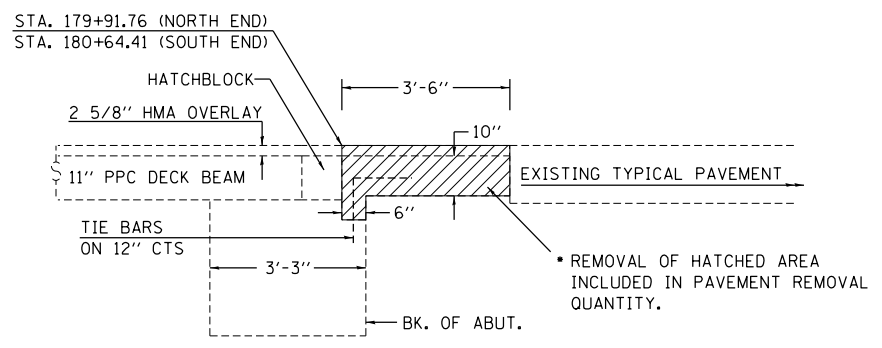
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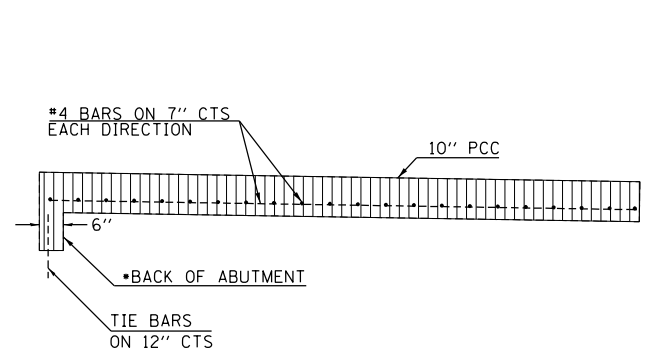
- HMA SURFACE REMOVAL VARIABLE DEPTH
- PAVEMENT REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL
- PAVED SHOULDER REMOVAL



SECTION A-A



SECTION B-B



SECTION C-C

EXISTING REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL.

NOTE: THERE WILL BE EXTRA WORK IN THE REMOVAL OF CONCRETE TIED TO THE ABUTMENT. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER SO AS NOT TO DAMAGE THE ADJACENT STRUCTURES THAT ARE TO REMAIN IN PLACE.

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PLOT DATE = 10/10/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	32
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

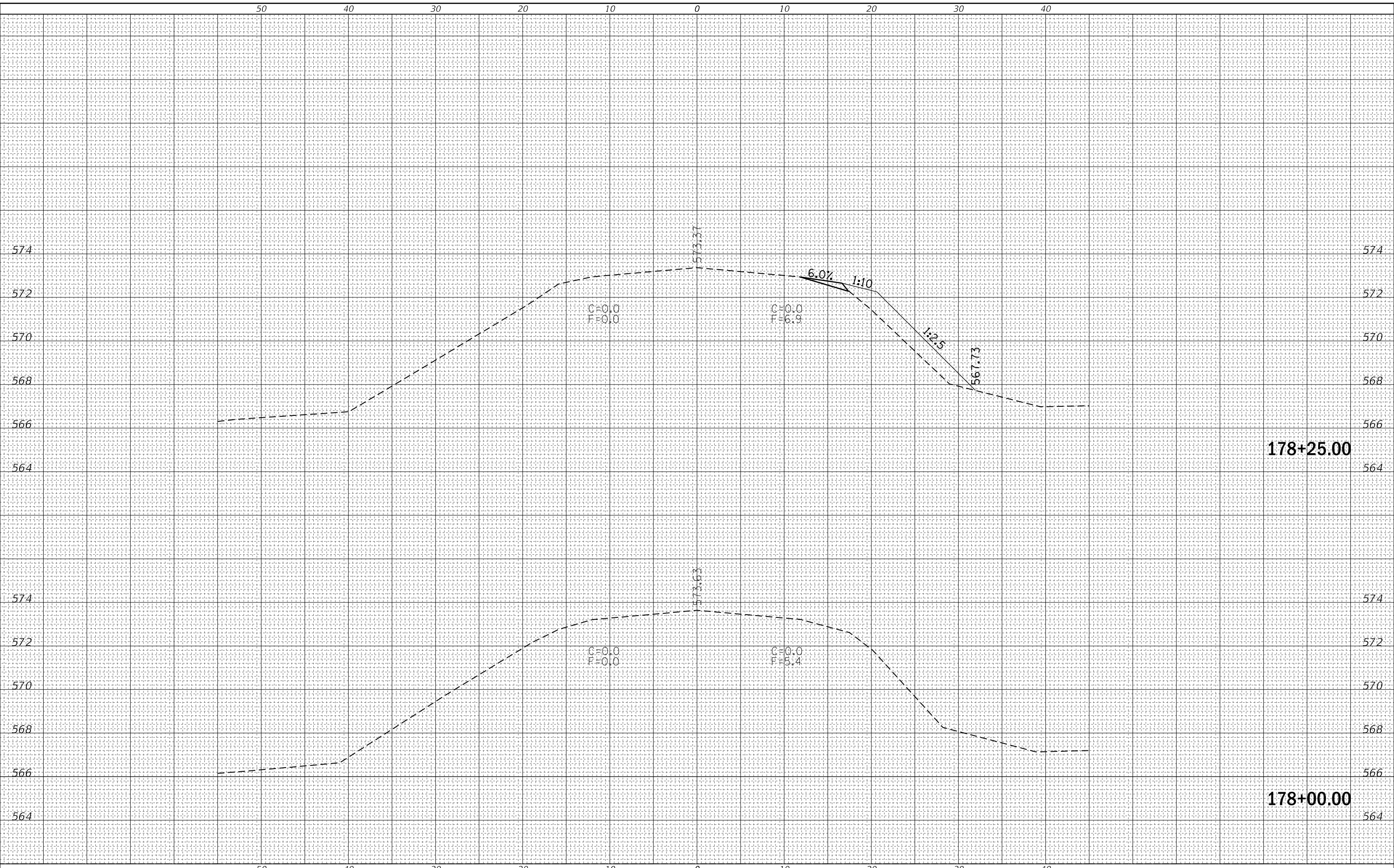




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AREAS CHECKED	TEMPLATE		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

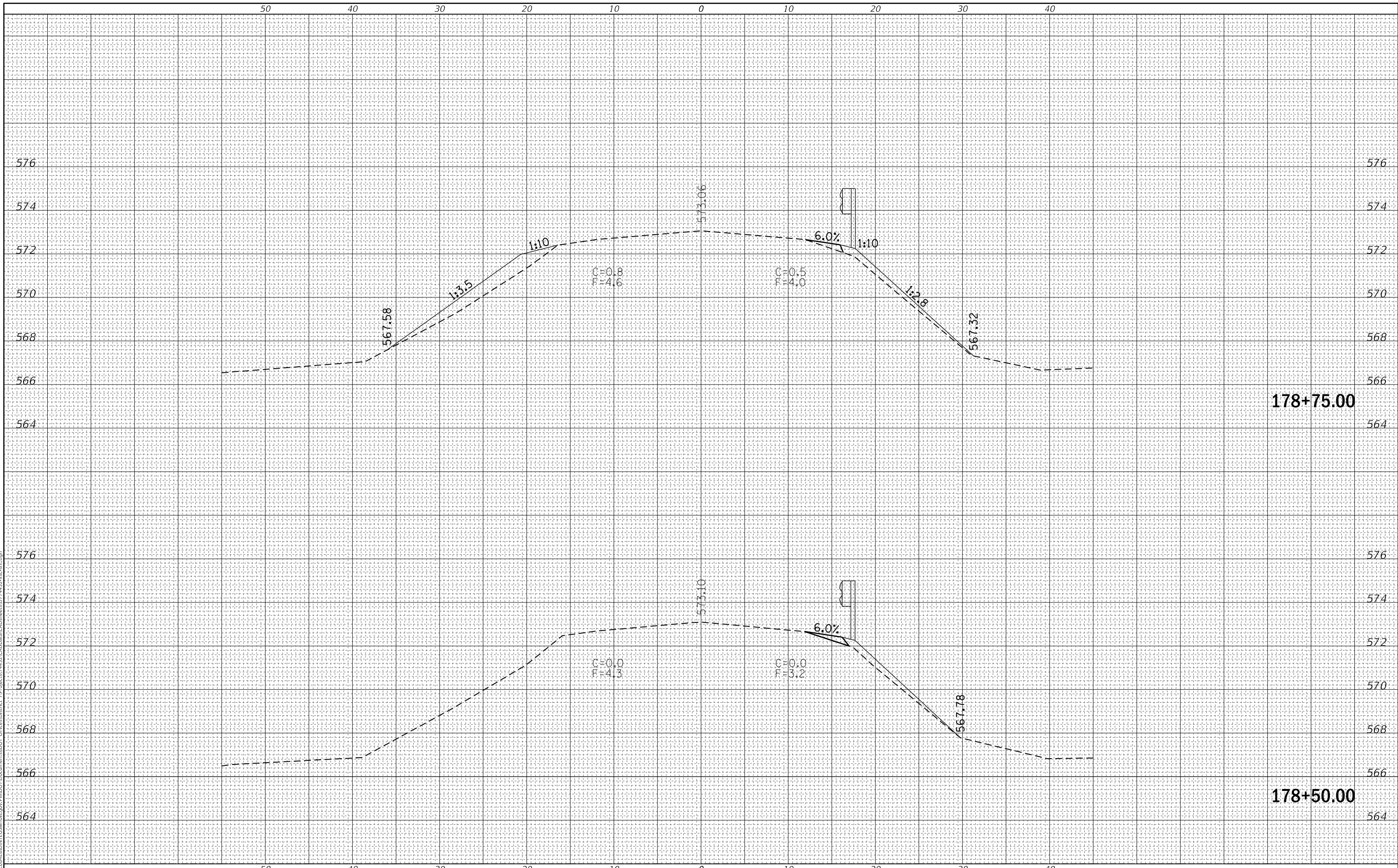
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STA. 178+00.00 TO STA. 178+25.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	33
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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ORIGINAL SURVEY NO.	SURVEYED	DATE
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	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 5	SHEET 2	OF 14 SHEETS	STA. 178+50.00	TO STA. 178+75.00
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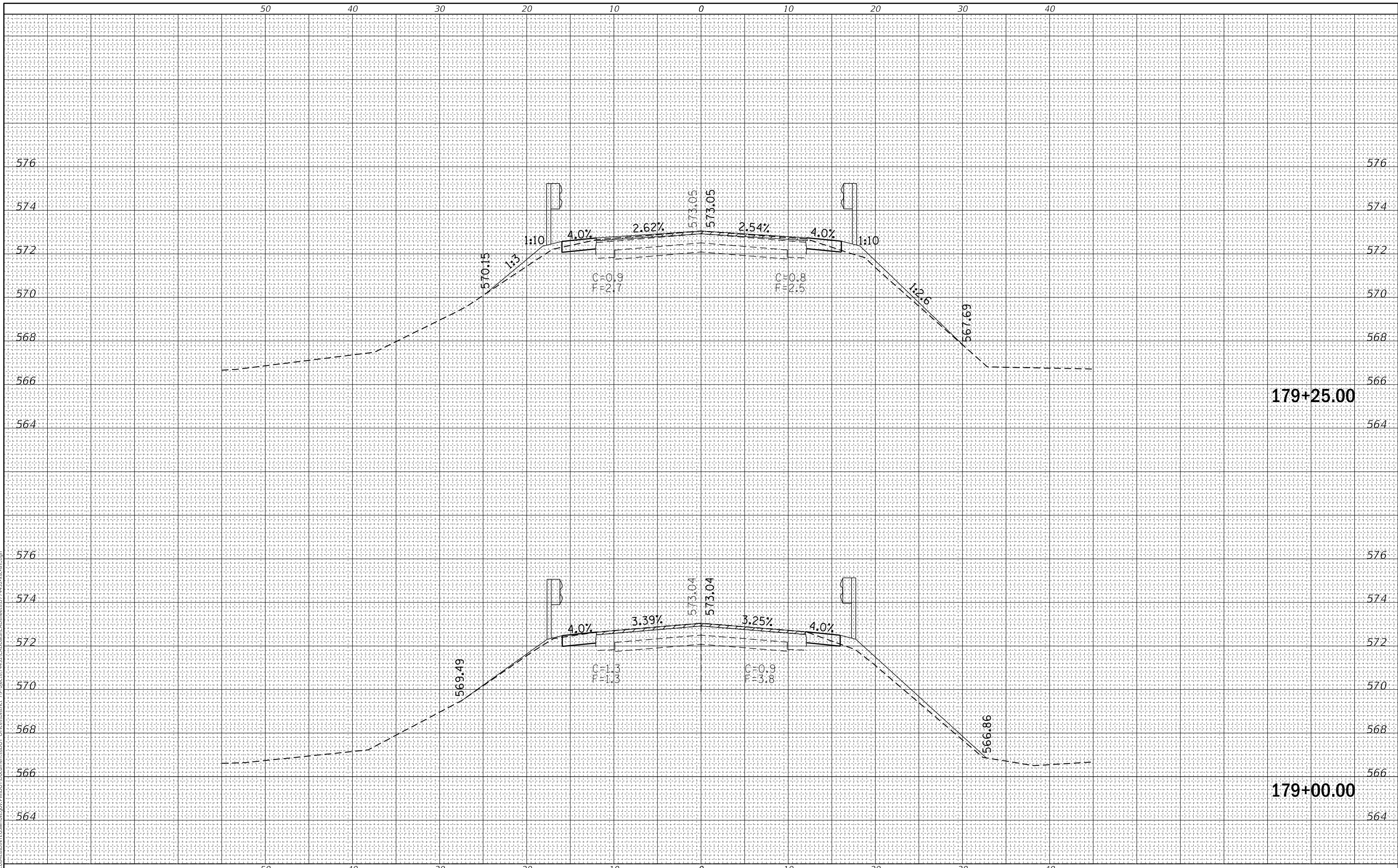
**CROSS SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
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NOTE BOOK NO.	
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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

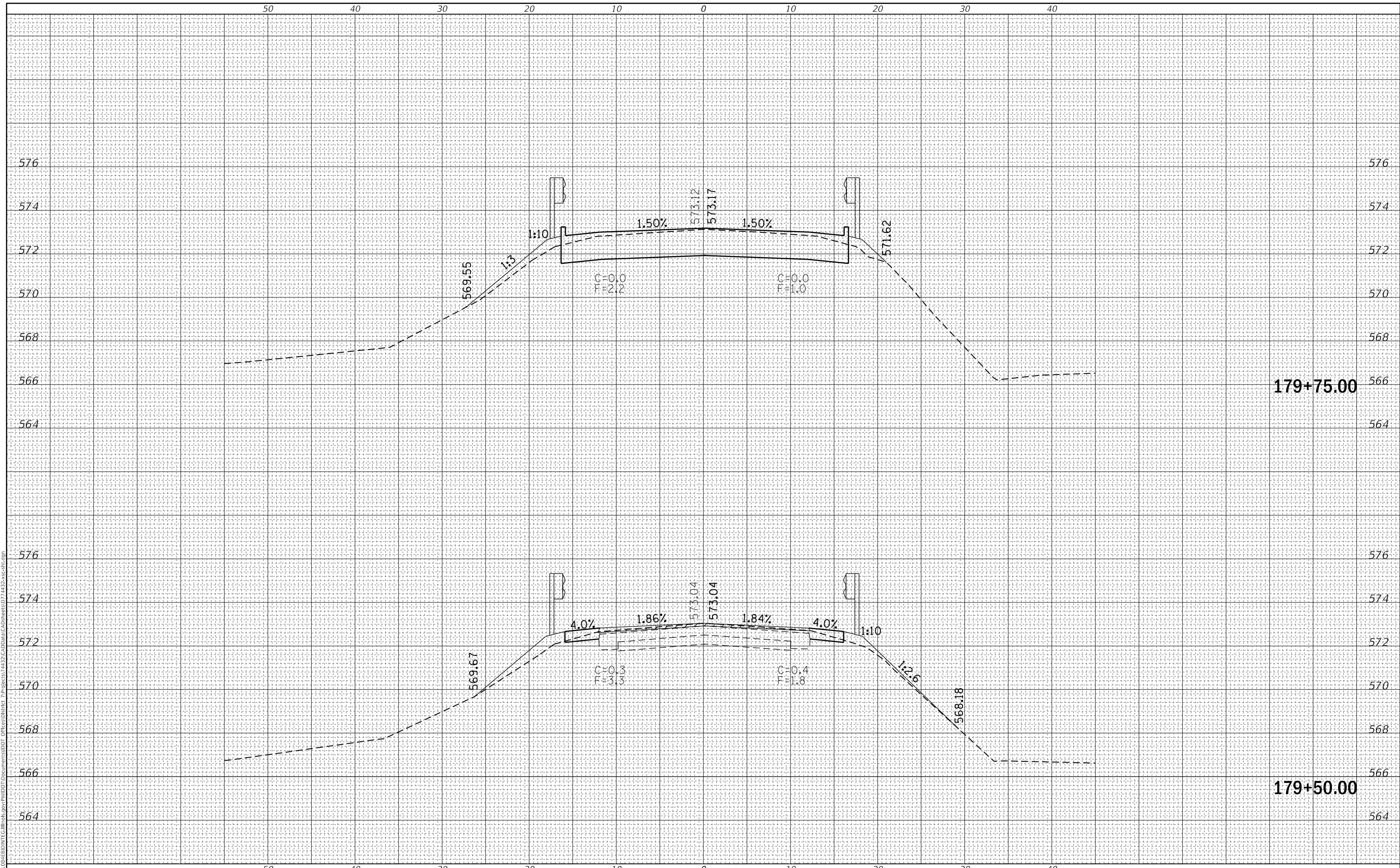
SCALE: 5 SHEET 3 OF 14 SHEETS STA. 179+00.00 TO STA. 179+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	35
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

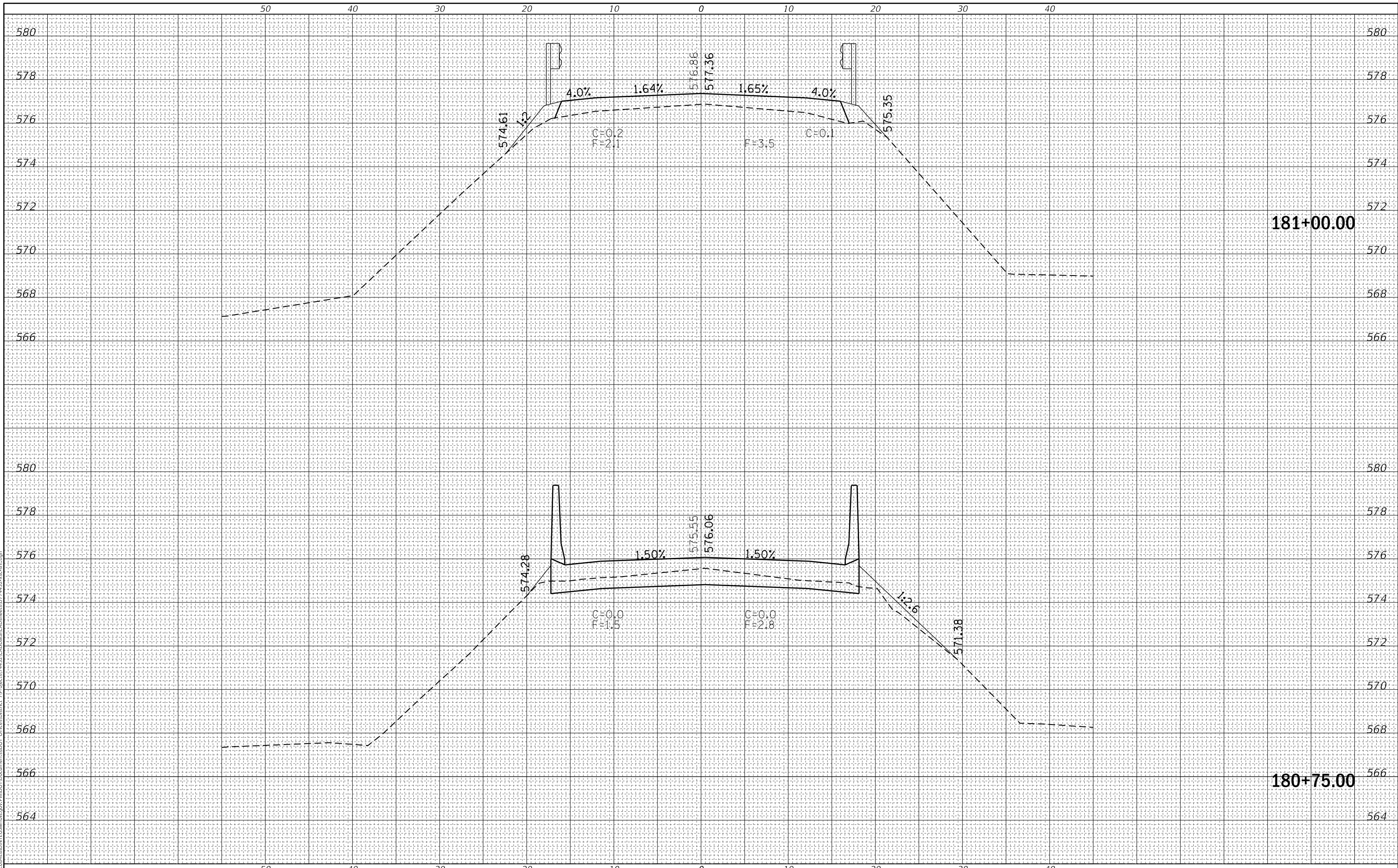
SCALE: 5 SHEET 4 OF 14 SHEETS STA. 179+50.00 TO STA. 179+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	45	36
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = steffennk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

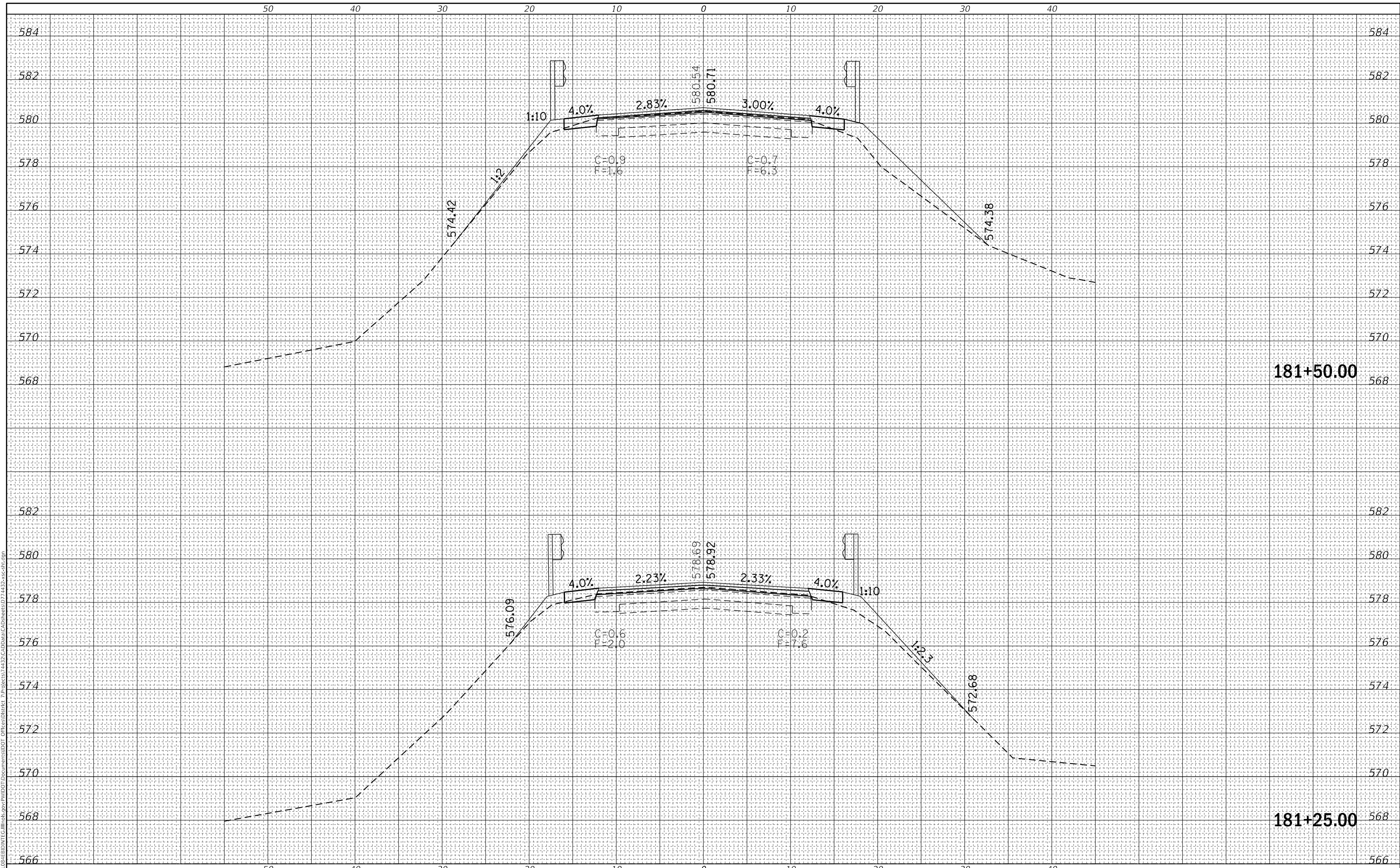
SCALE: 5 SHEET 5 OF 14 SHEETS STA. 180+75.00 TO STA. 181+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	37
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

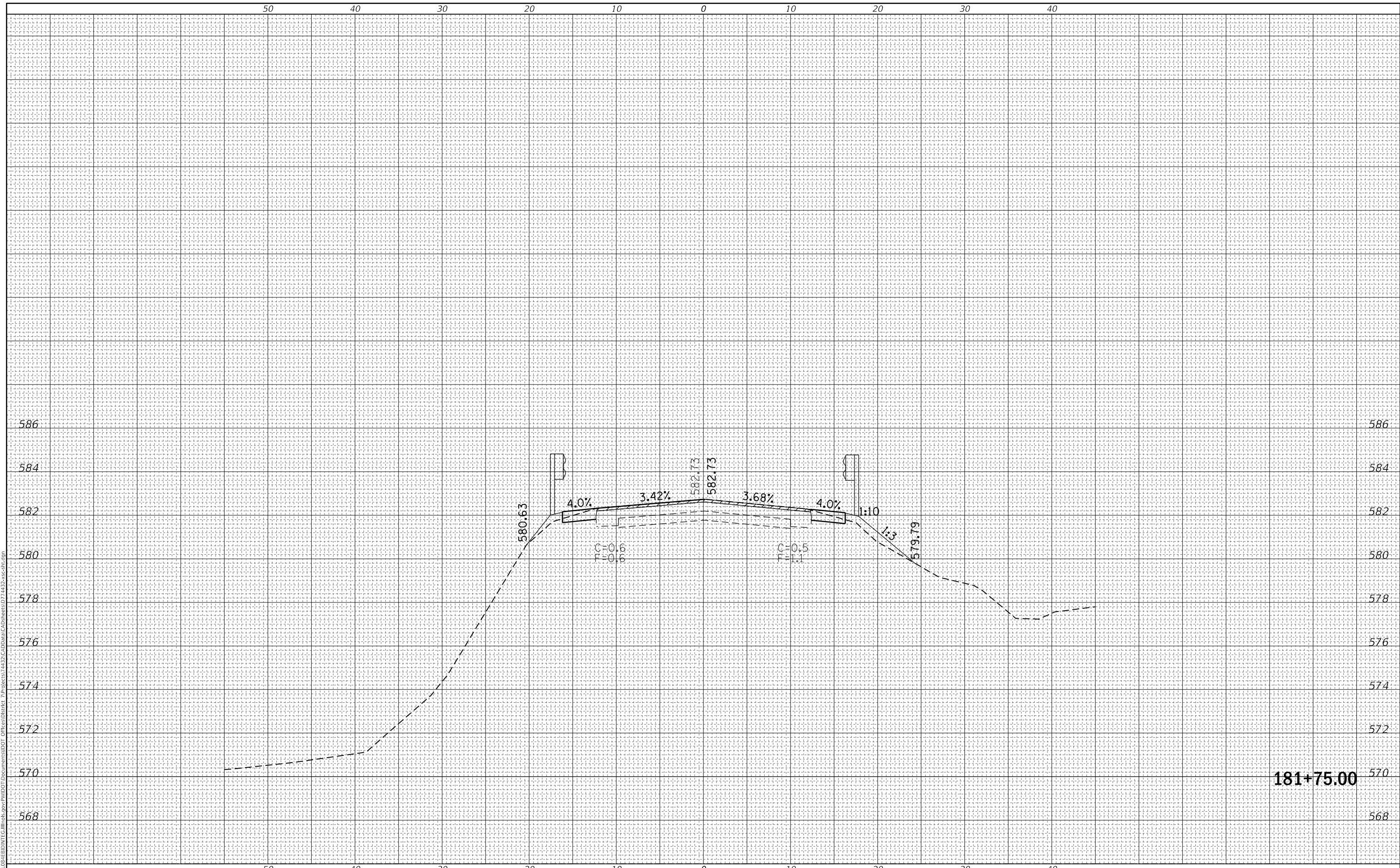
<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 6 OF 14 SHEETS
STA. 181+25.00 TO STA. 181+50.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	38
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 7 OF 14 SHEETS
STA. 181+75.00 TO STA. 181+75.00	

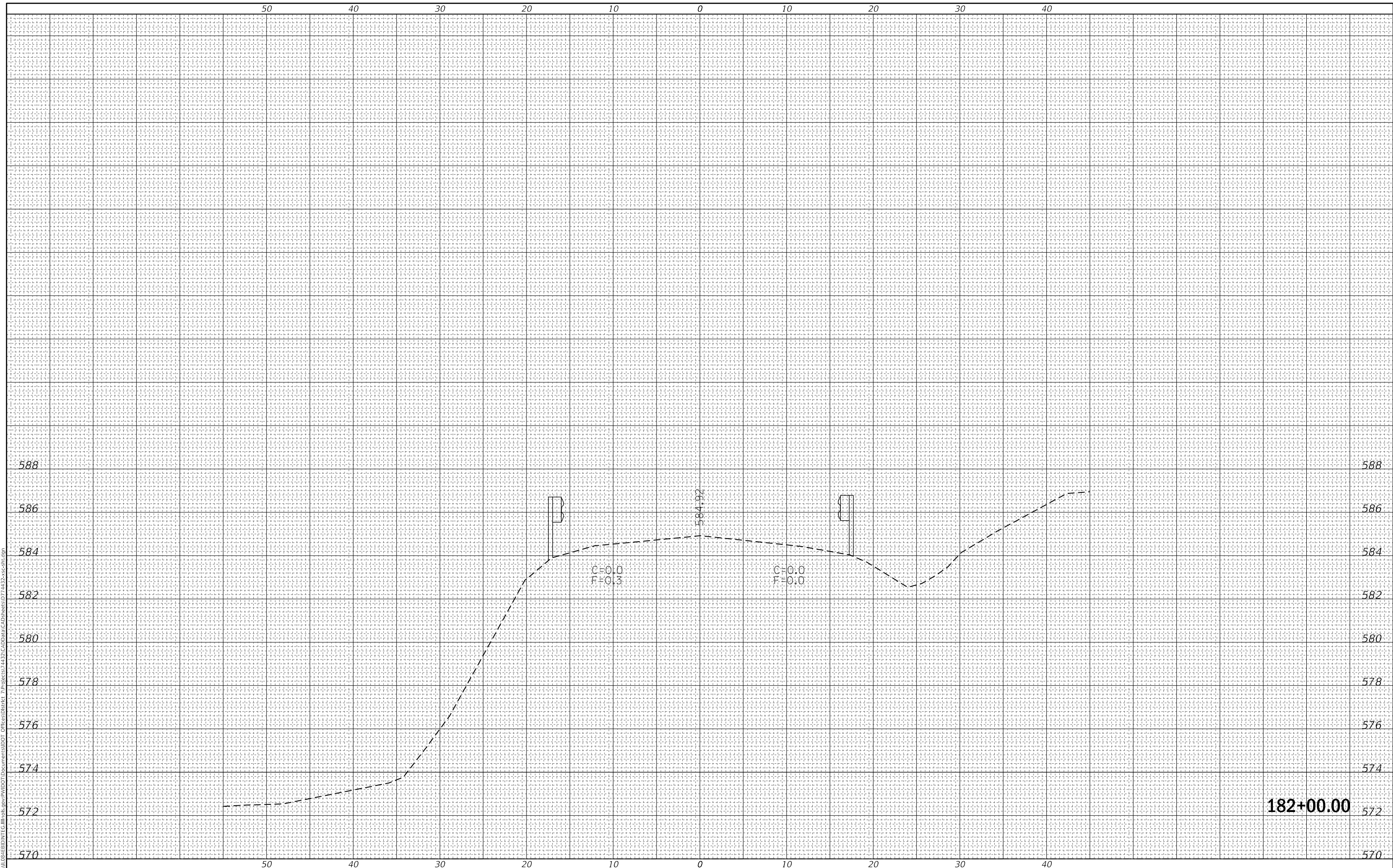
F.A.P. RTE. 828	SECTION (12BR)BR	COUNTY CUMBERLAND	TOTAL SHEETS 46	SHEET NO. 39
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				



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

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

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

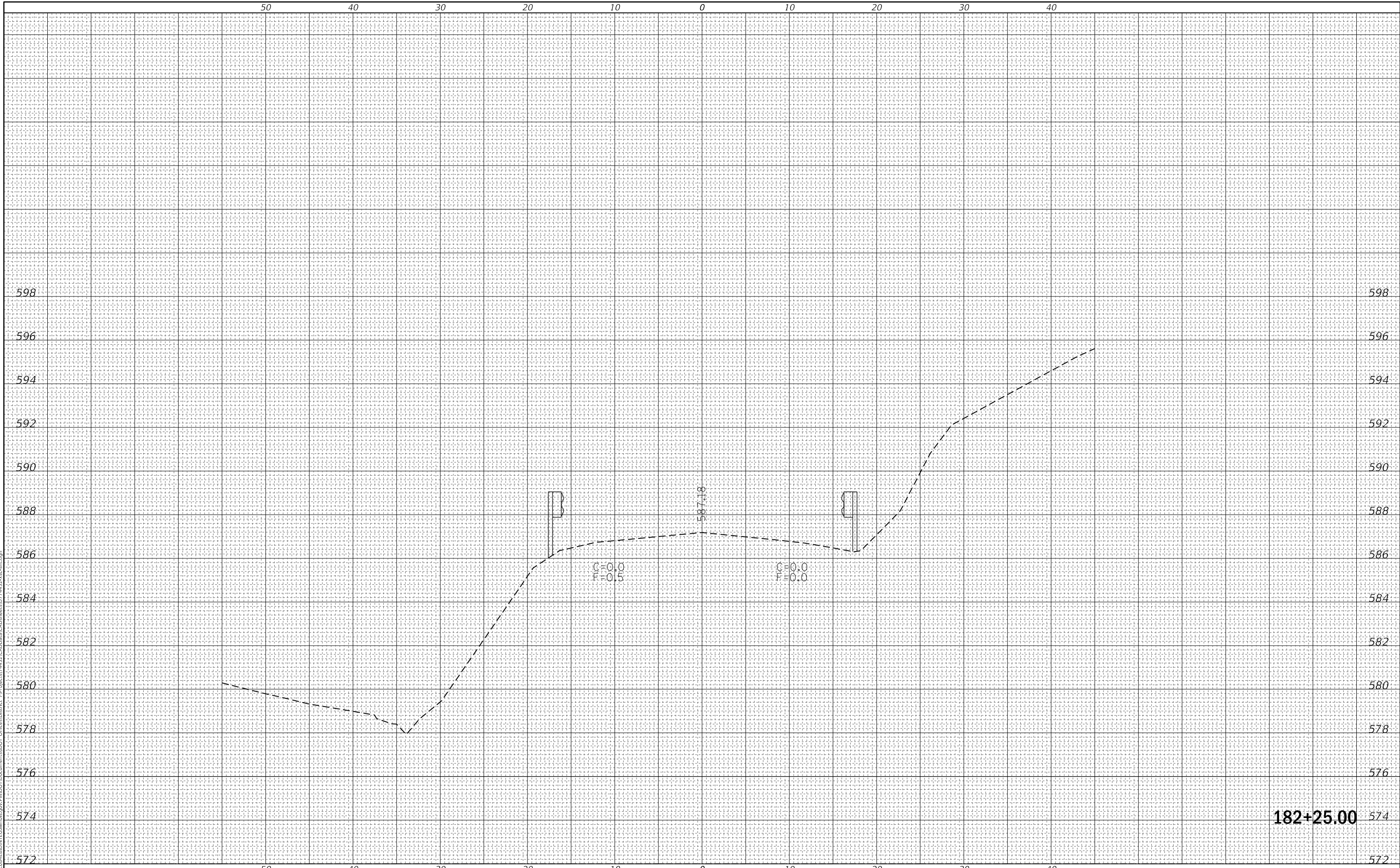
<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 8 OF 14 SHEETS
STA. 182+00.00	TO STA. 182+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	40
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = steffenk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

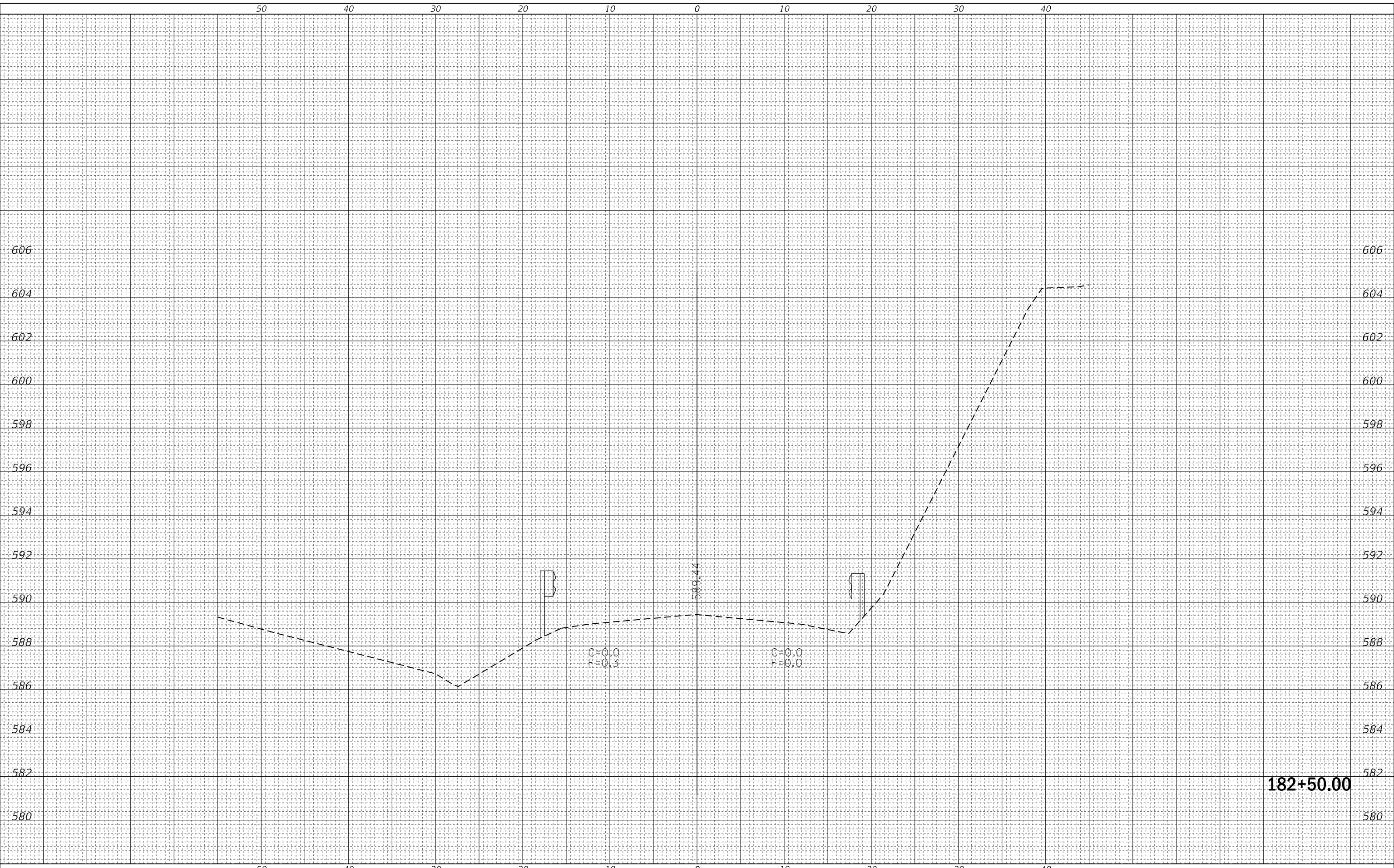
SCALE: 5      SHEET 9 OF 14 SHEETS      STA. 182+25.00 TO STA. 182+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	41
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

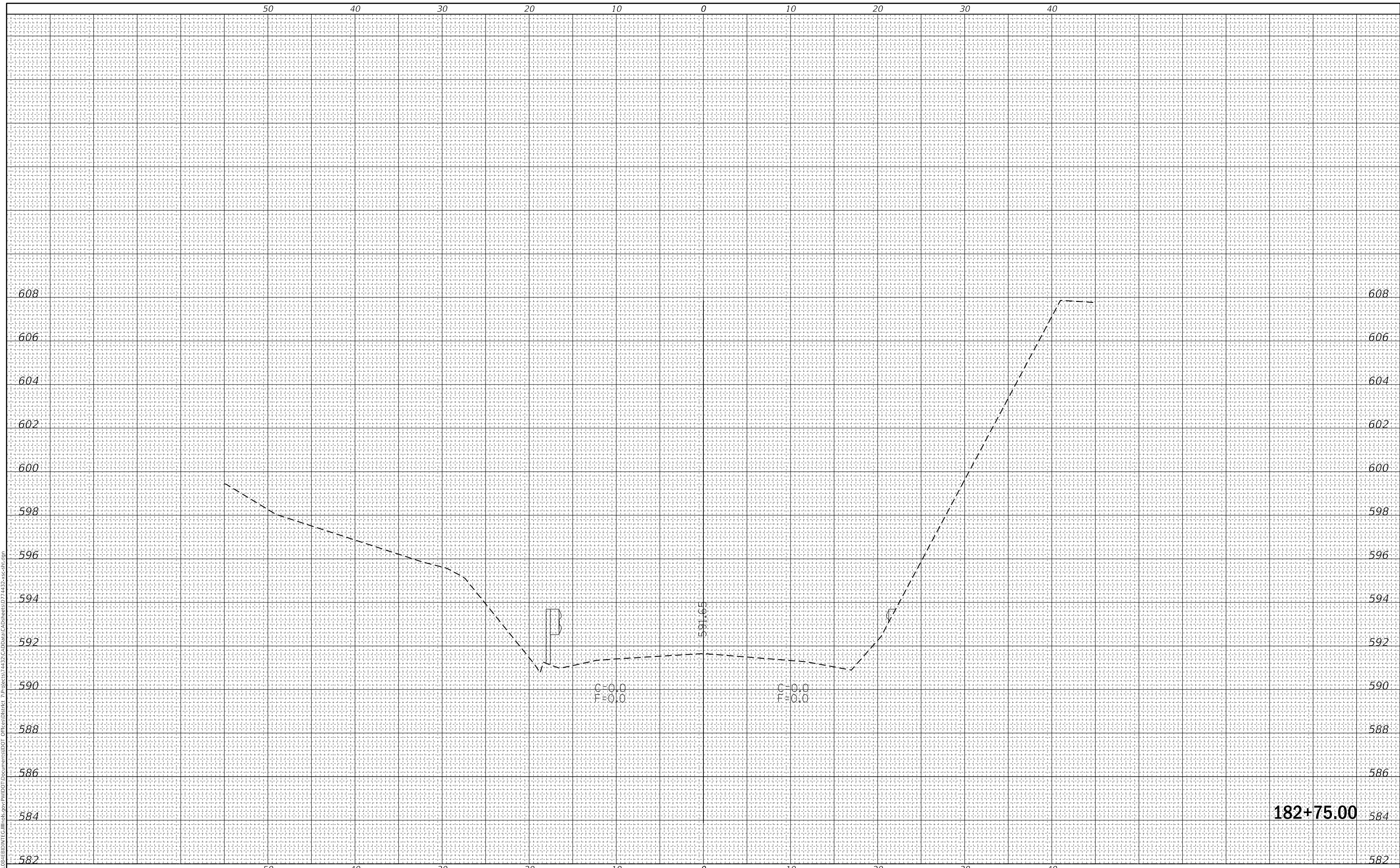
<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 10 OF 14 SHEETS
STA. 182+50.00 TO STA. 182+50.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	42
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = steffenk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 11 OF 14 SHEETS
STA. 182+75.00 TO STA. 182+75.00	

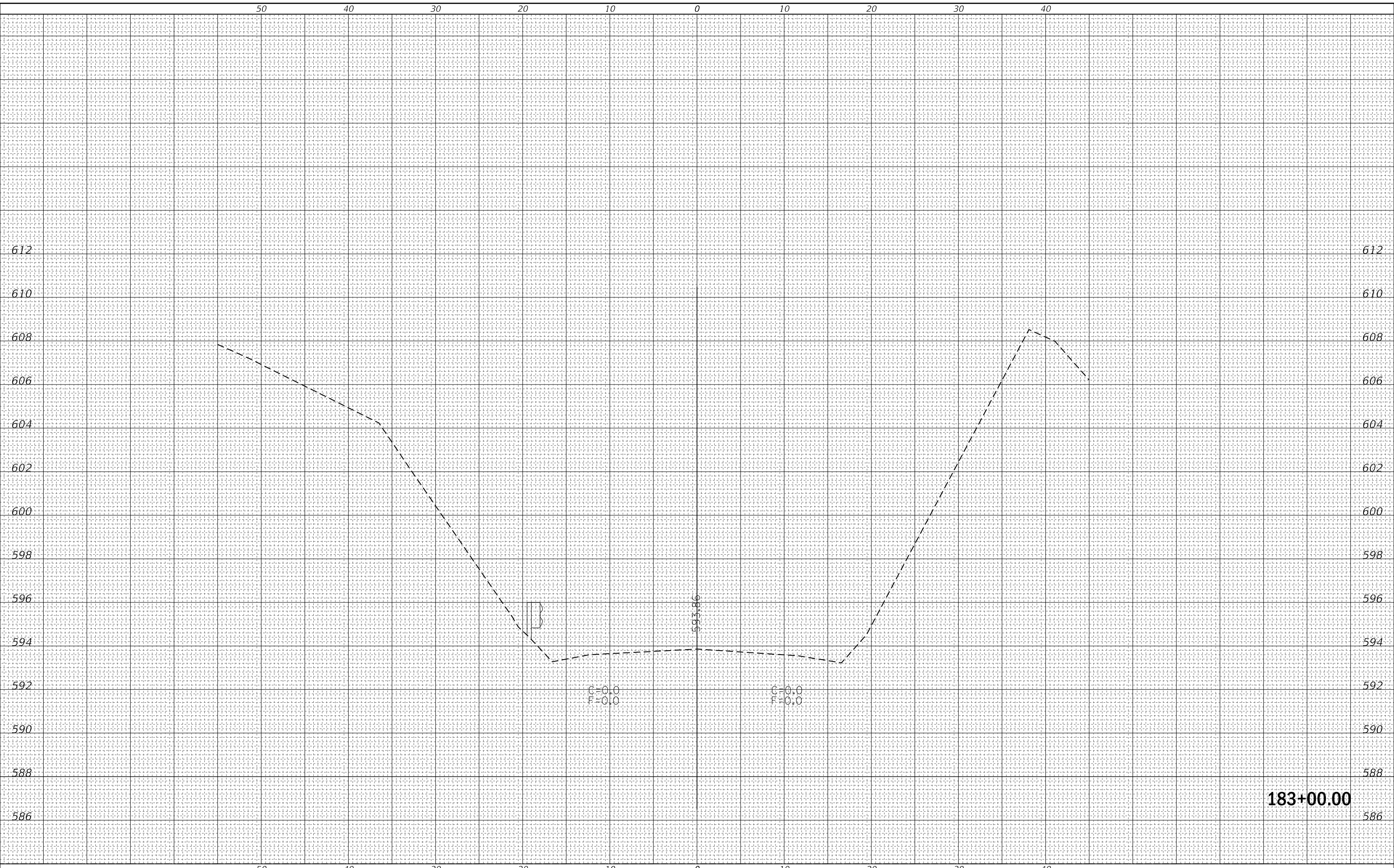
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	43
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

**182+75.00**

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

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

MODEL: Defnair  
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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 12 OF 14 SHEETS
STA. 183+00.00 TO STA. 183+00.00	

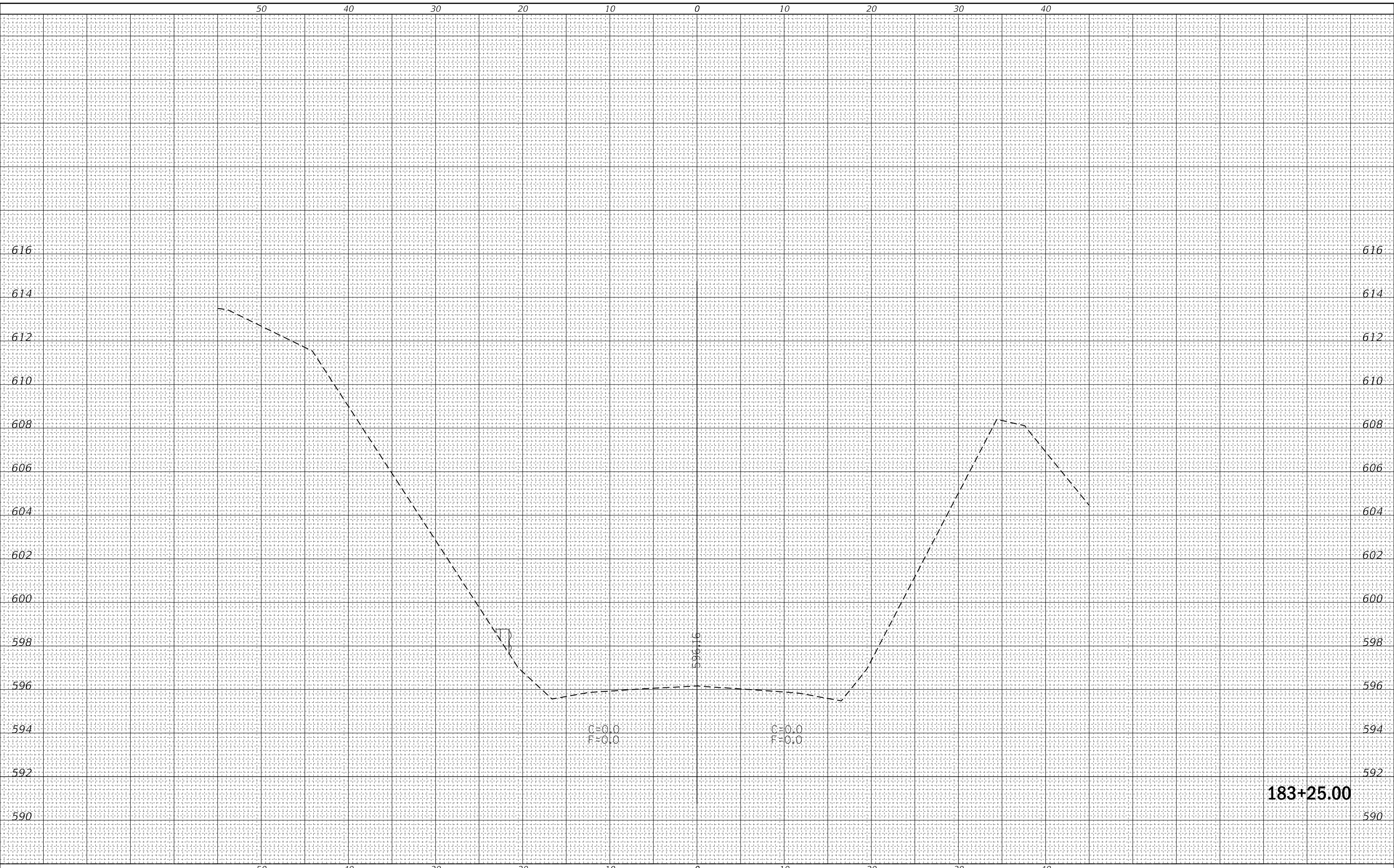
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	44
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

**183+00.00**

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

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

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
SCALE: 5	SHEET 13 OF 14 SHEETS
STA. 183+25.00 TO STA. 183+25.00	

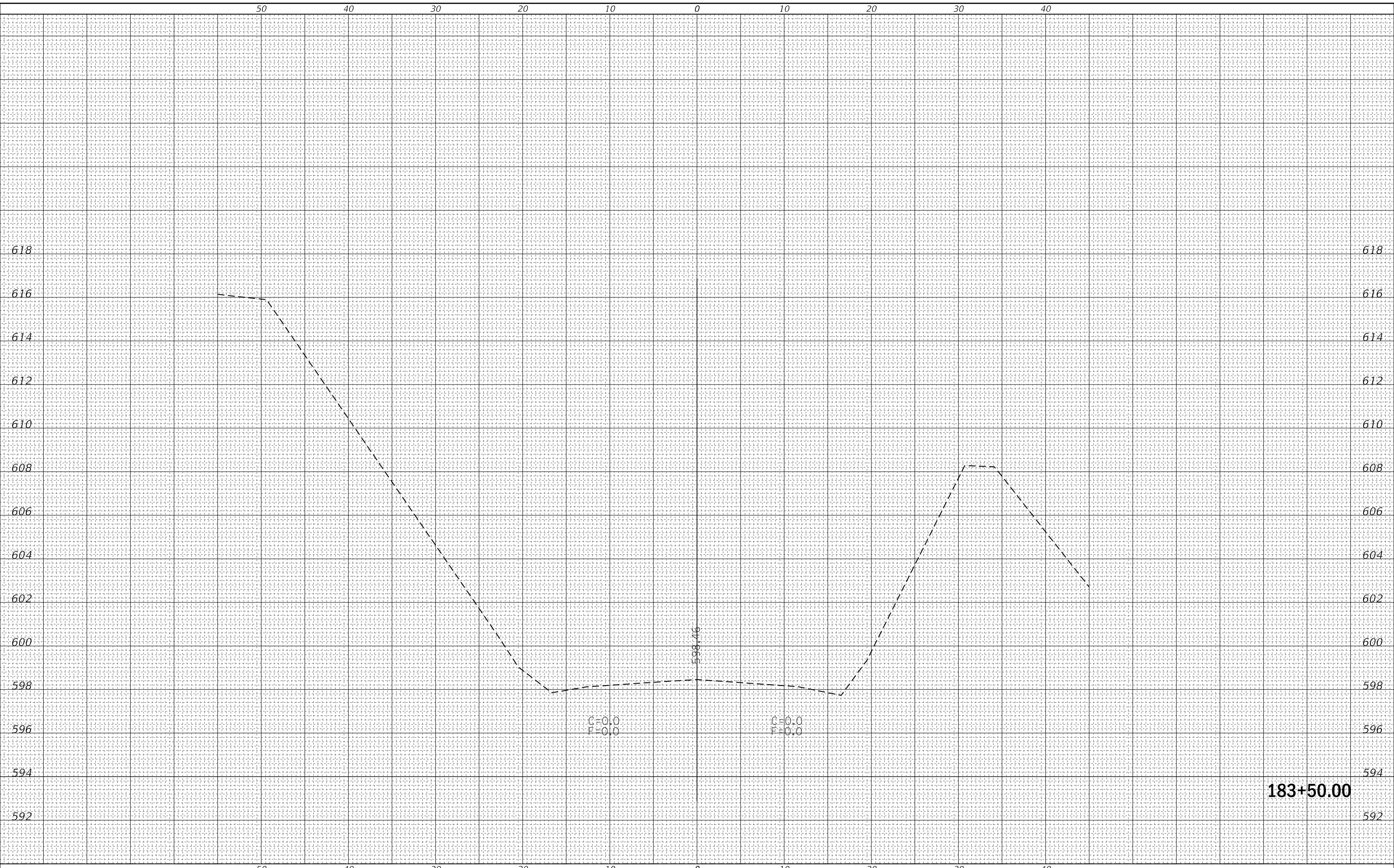
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	45
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				

**183+25.00**

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

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

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183+50.00

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/10/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 5 SHEET 14 OF 14 SHEETS STA. 183+50.00 TO STA. 183+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	(12BR)BR	CUMBERLAND	46	46
CONTRACT NO. 74432				
ILLINOIS FED. AID PROJECT				