

07-30-2021 LETTING ITEM 060

**HANCOCK COUNTY, ILLINOIS – HIGHWAY DEPARTMENT  
BRIDGE SUPERSTRUCTURE REPLACEMENT AND PAVEMENT**

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
433	21-00139-00-BR	HANCOCK	35	1
		ILLINOIS	CONTRACT NO. 93764	

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES /GENERAL NOTES
- 3 SCHEDULE OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 HORIZONTAL CONTROL
- 6 PLAN AND PROFILE
- 7 TRAFFIC CONTROL PLAN
- 8-13 STRUCTURE PLANS
- 14-35 CROSS SECTIONS

**ILLINOIS HIGHWAY STANDARDS**

000001-08	630301-09	701011-04	BLR 21-9
280001-07	631032-09	701901-08	
515001-04	701001-02	725001-01	
630001-12	701006-05	782006-01	

**DESIGN DESIGNATION**

FAS 433 (CH 19)  
FUNCTIONAL CLASS: MAJOR COLLECTOR  
ADT = 325 (2018) 300 (2032)  
DESIGN SPEED = 55 MPH

**UTILITIES**

DALLAS RURAL WATER DISTRICT  
DANA GNANN  
(309) 337-3718

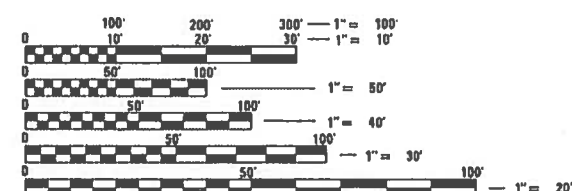
ADAMS TELEPHONE COOPERATIVE  
STEVE BENDER  
(217) 696-8450

WESTERN ILLINOIS ELECTRIC COOPERTIVE  
RYAN BIERY  
(217) 357-3125

**PROJECT DESCRIPTION**

Project consists of removing and replacing the existing prestressed concrete deck beams on S.N. 034-3190 carrying FAS 433 over Panther Creek, back to back length of 155'-3", out to out width of 30'-0". The existing substructure shall remain in place. Additional work includes HMA pavement, aggregate shoulders, guardrail, seeding, disposing the existing beams and other miscellaneous items.

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

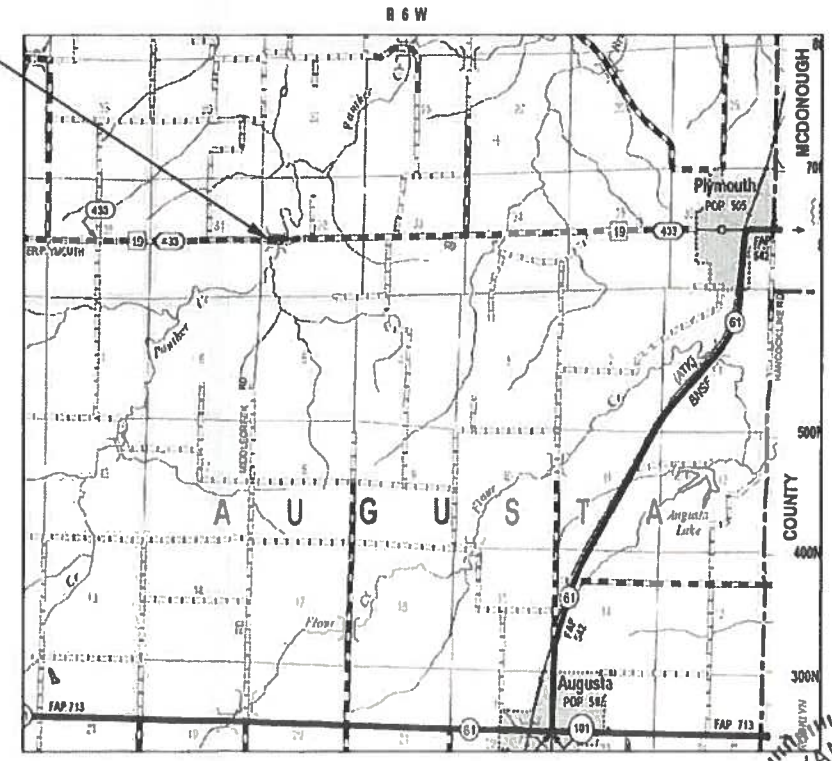


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**FAS 433 (CH 19)  
over PANTHER CREEK**

FEDERAL PROJ. NO.: 2A3B(414)  
JOB NO.: C-96-064-21  
SECTION 21-00139-00-BR  
STP – BRIDGE FUNDING

BEGIN STA. 284 + 25.00  
PROPOSED S.N. 034-3190  
STA. 285 + 50.66  
THREE SPAN OVER PANTHER CREEK  
155'-3" BK TO BK ABUTMENTS  
10-21" PPC DECK BEAMS  
END STA 286 + 80.00

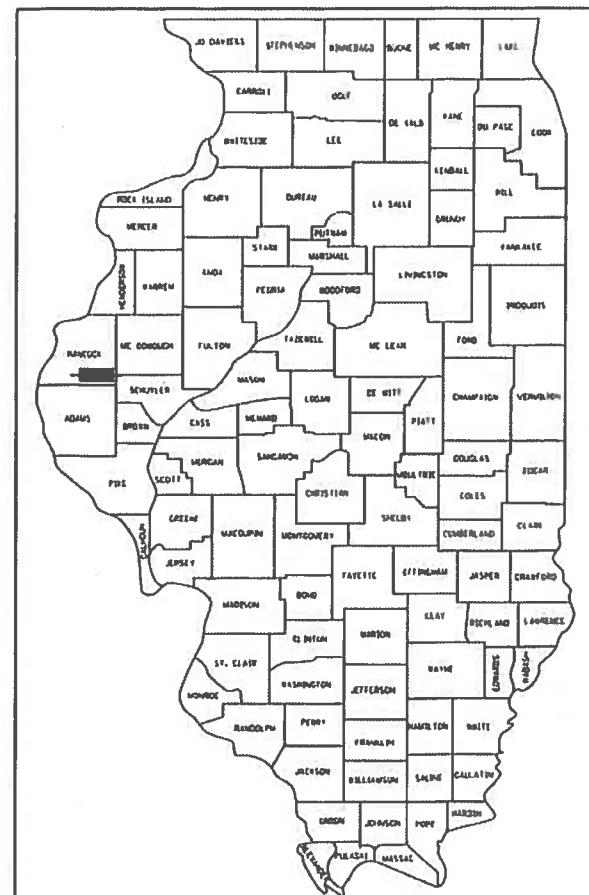


**LOCATION MAP**

GROSS /NET LENGTH OF SECTION = 255.00 FT. = 0.048 MILE



*RJP* 4/16/2021  
RYAN J. PHELPS  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS NO. 062-063007  
LICENSE EXPIRES NOVEMBER 30, 2021



LOCATION OF SECTION INDICATED THUS: - ■ -

APPROVED 4/16 20 21  
*Elgin Berry*  
COUNTY ENGINEER

APPROVED 05/11 20 21  
*Brian Wright*  
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For  
Bid Based on  
Limited Review 05/11 20 21  
*Jeffrey Myers*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

Plans prepared by:  
**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors

Quincy, Illinois  
618 North 24th Street  
217 223 3870  
www.klingner.com  
Galesburg, IL Burlington, IA  
Pella, IA Hannibal, MO Columbia, MO  
IL DESIGN FIRM NO.: 1842738

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	130
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	244
25000200	SEEDING, CLASS 2	ACRE	0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.6
25100115	MULCH, METHOD 2	ACRE	0.3
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000400	PERIMETER EROSION BARRIER	FOOT	1661
28000500	INLET AND PIPE PROTECTION	EACH	.2
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	197
28200200	FILTER FABRIC	SQ YD	296
35100100	AGGREGATE BASE COURSE, TYPE A	TON	167
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	20
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	549
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	55
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	41
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	84
44000100	PAVEMENT REMOVAL	SQ YD	241
* 48101200	AGGREGATE SHOULDERS, TYPE B	TON	148
* 50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	86
50300225	CONCRETE STRUCTURES	CU YD	5.0
* 50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	4,590
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	620
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	306
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	511
60500060	REMOVING INLETS	EACH	2
Δ 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	912.5
Δ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
* 63200310	GUARDRAIL REMOVAL	FOOT	1250
67100100	MOBILIZATION	L SUM	1
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	18
* Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	20
^ Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1

\* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

**GENERAL NOTES**

1. 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 THE 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.
2. 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.
3. 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.
4. ADJUSTMENTS OF UTILITY LOCATIONS SHALL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED.
5. 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.
6. 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.
7. 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.
8. 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

9. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	HMA BINDER	HMA SURF CSE
MIXTURE USE(S):		
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 19.0	IL 9.5
FRICTION AGGREGATE	N/A	MIX "C"
QUALITY	QA/AC	QA/QC
SUB-LOT SIZE	N/A	N/A

**RATES OF APPLICATION TABLE**

AGGREGATE (SURFACE, BASE, BASE, OR BACKFILL)	2.05 TON/CU YD
HOT-MIX ASPHALT: BITUMINOUS MATERIALS (TACK COAT) BITUMINOUS MATERIALS (PRIME COAT) SURFACE / BINDER (112 lbs)	0.025 POUND / SQ FT (SEE ARTICLE 406.05) 0.250 POUND / SQ FT (ON AGG BASE) 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

FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>SUMMARY OF QUANTITIES GENERAL NOTES</b>				FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\20f.les\280181\18.Transportation\CA00	Sheets\Shr-GenNotes.dgn	DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	2				
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 93764								
	PLOT DATE = 4/16/2021	DATE -	REVISED -		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SEEDING SCHEDULE

ITEM	UNIT	TOTAL
SEEDING, CLASS 2	ACRE	0.3
NITROGEN FERTILIZER NUTRIENT	POUND	27
PHOSPHORUS FERTILIZER NUTRIENT	POUND	27
POTASSIUM FERTILIZER NUTRIENT	POUND	27
AGRICULTURAL GROUND LIMESTONE	TON	0.6
MULCH, METHOD 2	ACRE	0.3

THIS SCHEDULE CONTAINS ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THIS ESTIMATED QUANTITY SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

EARTH EXCAVATION SCHEDULE

LOCATION STATION TO STATION	SIDE	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	EARTHWORK BALANCE
CU YD					
FAS 433 (CH 19)					
279+54	289+81	LT & RT	130	100	80 (-20)
TOTALS			130	100	80 (-20)
USE			130	100	80 (-20)

PIPE CULVERT REMOVAL

STATION	SIDE	DESCRIPTION	FOOT
FAS 433 (CH 19)			
286+04.87	RT	12" STEEL	43
286+11.61	LT	12" STEEL	43
TOTAL			86

REMOVING INLETS

STATION	SIDE	OFFSET	EACH
FAS 433 (CH 19)			
286+32.71	LT	12.5	1
286+25.98	RT	12.5	1
TOTAL			2

EROSION CONTROL SCHEDULE

ITEM	UNIT	TOTAL
TEMPORARY EROSION CONTROL SEEDING	POUND	50
PERIMETER EROSION BARRIER	FOOT	1661
INLET AND PIPE PROTECTION	EACH	2

THIS SCHEDULE CONTAINS ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THIS ESTIMATED QUANTITY SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

PAVING SCHEDULE

LOCATION STATION TO STATION	SIDE	SURFACE WIDTH	GEOTECH FABRIC	AGGREGATE BASE COURSE TYPE A	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	HMA BINDER COURSE IL-19.0, N50	HMA SURFACE COURSE MIX "C", N50
			SQ YD	TON	POUND		TON	
FAS 433 (CH 19)								
284+25.0	284+73.0	LT & RT	22.0	117.3	80.2	26.4	264.0	19.7
286+28.3	286+80.0	LT & RT	22.0	126.4	86.4	28.4	284.4	21.2
TOTALS				243.7	166.5	54.8	548.4	40.9
USE				244	167	55	549	41

AGGREGATE SURFACE COURSE, TYPE A

STATION TO STATION	SIDE	TON
FAS 433 (CH 19)		
279+30.4	RT	10
281+45.6	LT	10
TOTAL		20

GUARDRAIL REMOVAL

STATION TO STATION	SIDE	FOOT	
FAS 433 (CH 19)			
279+42.04	284+69.96	RT	527.9
281+61.04	284+78.03	LT	317.0
286+23.49	286+72.68	RT	49.2
286+31.51	289+87.35	LT	355.8
TOTAL		1249.9	
USE		1250	

PAVEMENT REMOVAL

STATION TO STATION	SIDE	SQ YD	
FAS 433 (CH 19)			
284+25.0	284+73.0	LT & RT	117.7
286+28.3	286+80.0	LT & RT	123.2
TOTAL		240.9	
USE		241	

GUARDRAIL SCHEDULE

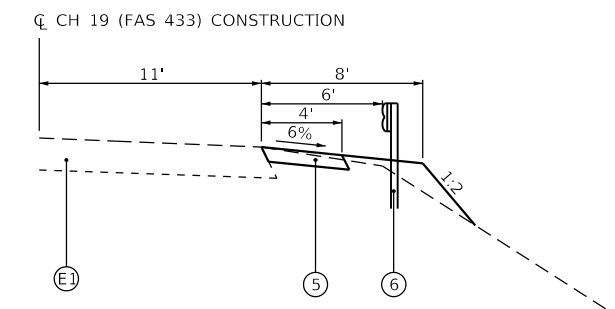
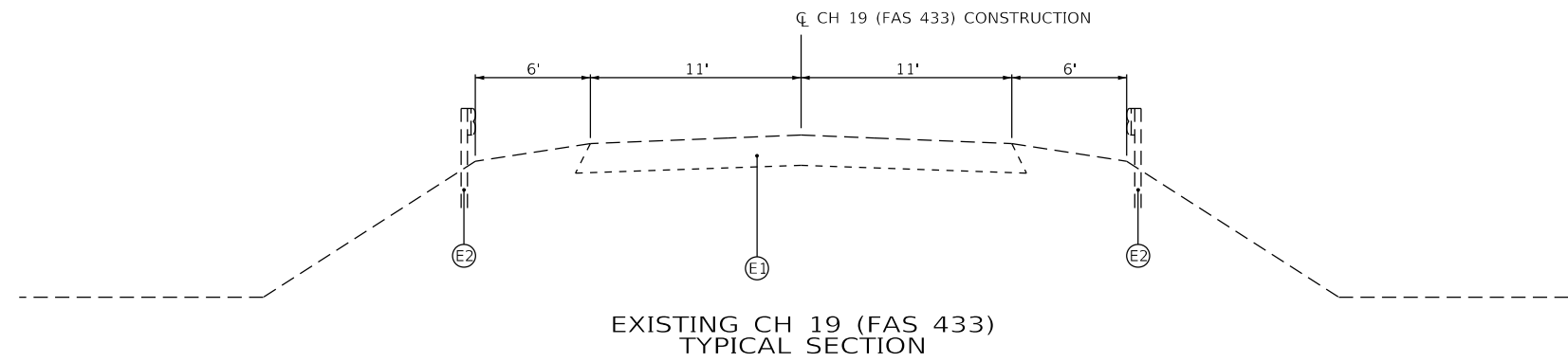
STATION TO STATION	SIDE	SPBGR TYPE A 9' POSTS	TRAF BARRIER TERMINAL		GUARDRAIL REFLECTORS TYPE A	TERMINAL MARKERS DIRECT APPLIED
			TYPE 6A	TYPE 1 SPECIAL (TANGENT)		
			FOOT			
FAS 433 (CH 19)						
279+57.40	284+72.60	RT	412.5	1	1	7
281+65.44	284+80.64	LT	225.0	1	1	4
286+20.68	287+23.38	RT	12.5	1	1	2
286+28.71	289+81.41	LT	262.5	1	1	5
TOTALS			912.5	4	4	18

AGGREGATE SHOULDERS, TYPE B

STATION TO STATION	SIDE	TON	
FAS 433 (CH 19)			
281+63.5	284+78.0	LT	35.8
279+54.0	284+71.0	RT	58.9
286+31.0	289+81.5	LT	39.9
286+24.0	287+53.7	RT	13.1
TOTAL		147.7	
USE		148	

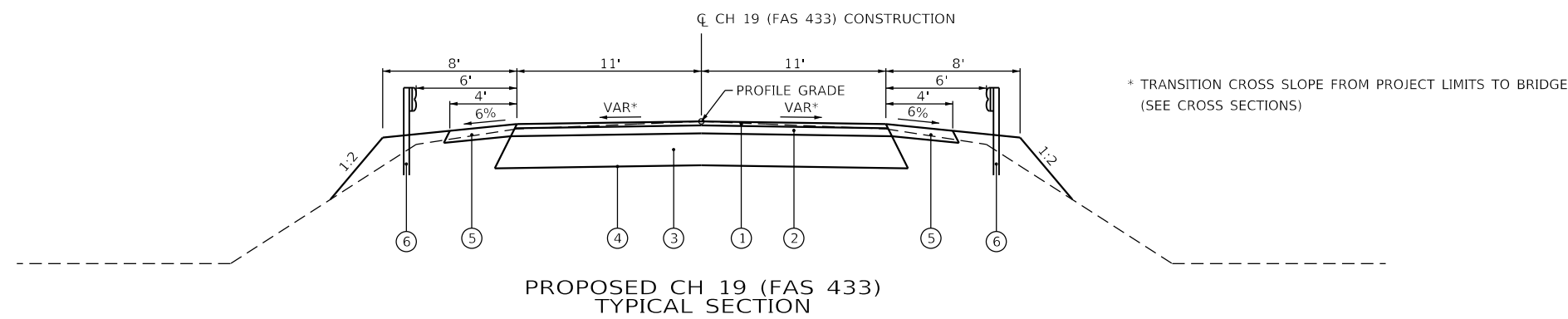
**LEGEND**

- Ⓔ EXISTING AGG BSE CSE, 10" W/ O&C
- Ⓔ EXISTING GUARDRAIL
  
- ① PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- ② PROPOSED HMA BINDER COURSE, IL-19.0, N50, 3"
- ③ PROPOSED AGGREGATE BASE COURSE, TYPE A, 12"
- ④ PROPOSED GEOTECHNICAL FABRIC
- ⑤ PROPOSED AGGREGATE SHOULDER, TYPE B, 4 1/2"
- ⑥ PROPOSED GUARDRAIL



**PROPOSED CH 19 (FAS 433)  
GUARDRAIL TYPICAL SECTION**

STA 279+57.40 TO STA 284+72.60 (RT)  
 STA 281+65.44 TO STA 284+80.64 (LT)  
 STA 286+20.68 TO STA 287+23.38 (RT)  
 STA 286+28.71 TO STA 289+81.41 (LT)



STA 284+25.0 TO STA 284+73.0  
 STA 284+73.0 TO STA 286+28.3 (SN 034-3190)  
 STA 286+28.3 TO STA 286+80.0

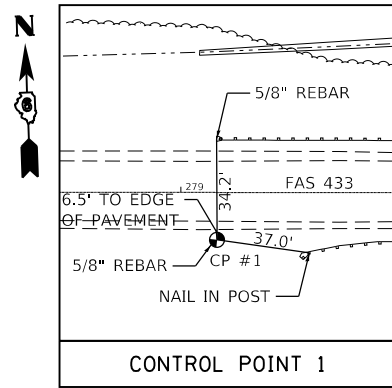
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	PLOT DATE = 4/15/2021	DATE -	REVISED -

**HANCOCK COUNTY  
HIGHWAY DEPARTMENT**

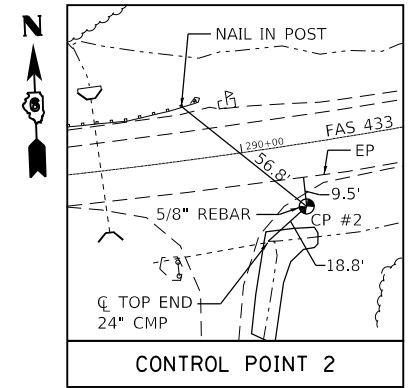
TYPICAL SECTIONS SHEET  
F.A.S. 433 (C.H. 19)

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

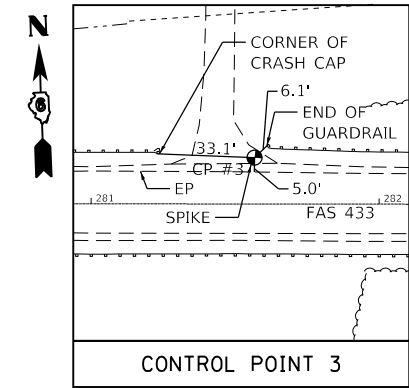
FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
433	21-00139-00-BR	HANCOCK	35	4
CONTRACT NO. 93764			ILLINOIS FED. AID PROJECT	



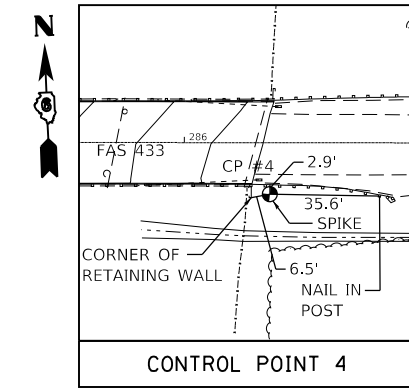
**CONTROL POINT 1**  
 N 1,320,538.809 E 2,062,861.886  
 ELEVATION = 582.26



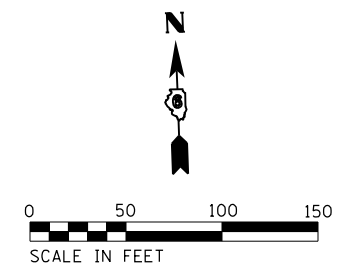
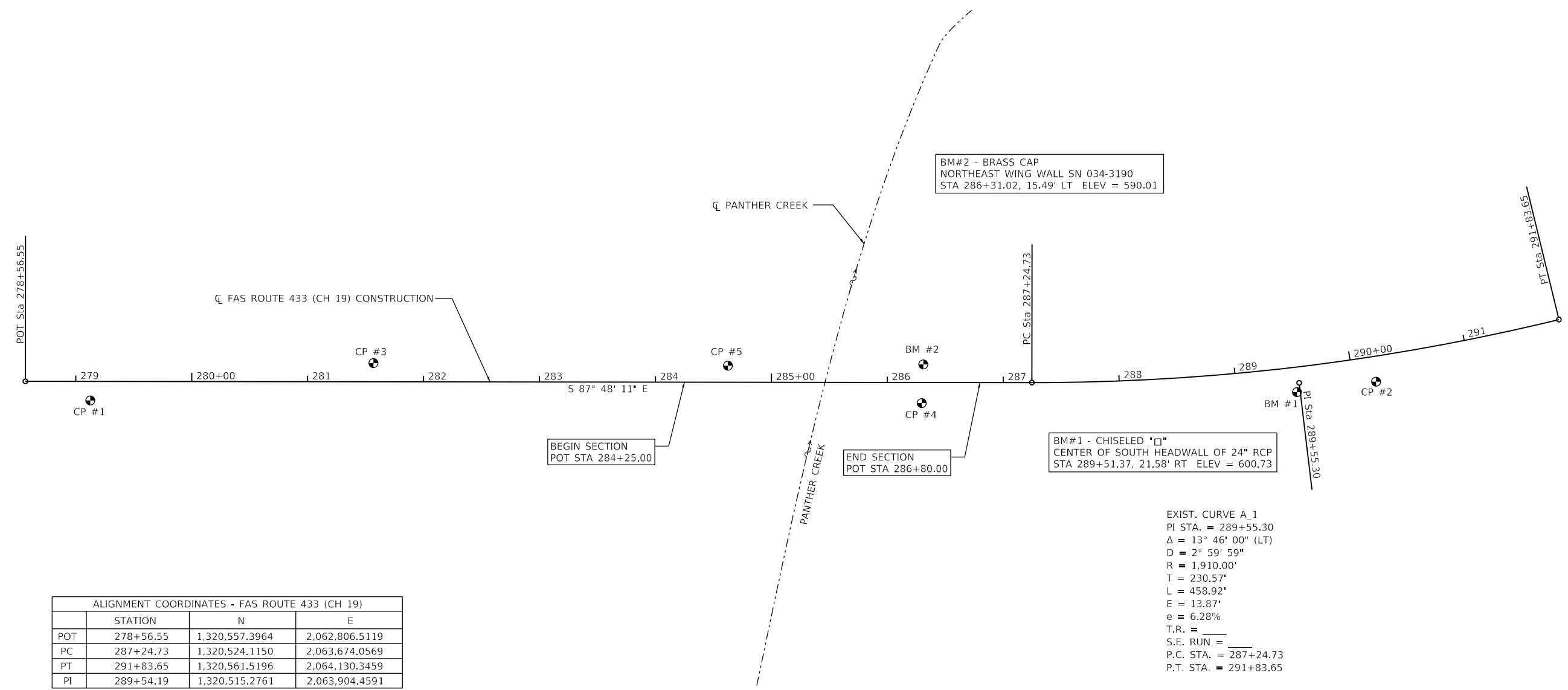
**CONTROL POINT 2**  
 N 1,320,513.928 E 2,063,970.772  
 ELEVATION = 604.82



**CONTROL POINT 3**  
 N 1,320,561.994 E 2,063,107.109  
 ELEVATION = 578.02



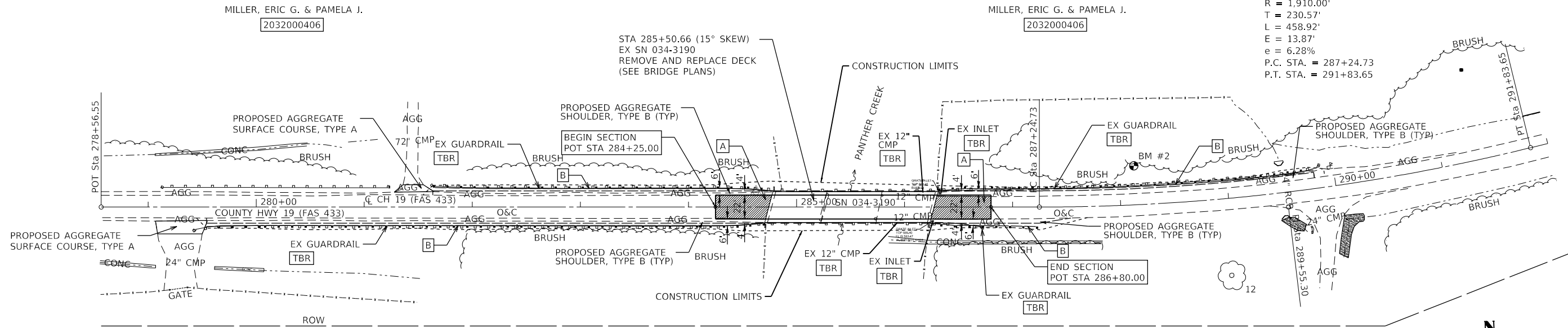
**CONTROL POINT 4**  
 N 1,320,509.996 E 2,063,578.388  
 ELEVATION = 589.17



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Default	Sheets\Sht-Alignment.dgn	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA. 8+50.00	TO STA. 14+50.00	HANCOCK	35	5
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -							<b>CONTRACT NO. 93764</b>		
	PLOT DATE = 4/15/2021	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

EXIST. CURVE A\_1  
 PI STA. = 289+55.30  
 $\Delta = 13^\circ 46' 00''$  (LT)  
 $D = 2^\circ 59' 59''$   
 $R = 1,910.00'$   
 $T = 230.57'$   
 $L = 458.92'$   
 $E = 13.87'$   
 $e = 6.28\%$   
 P.C. STA. = 287+24.73  
 P.T. STA. = 291+83.65

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FILE NAME	
PLAN	
NOTE BOOK NO.	



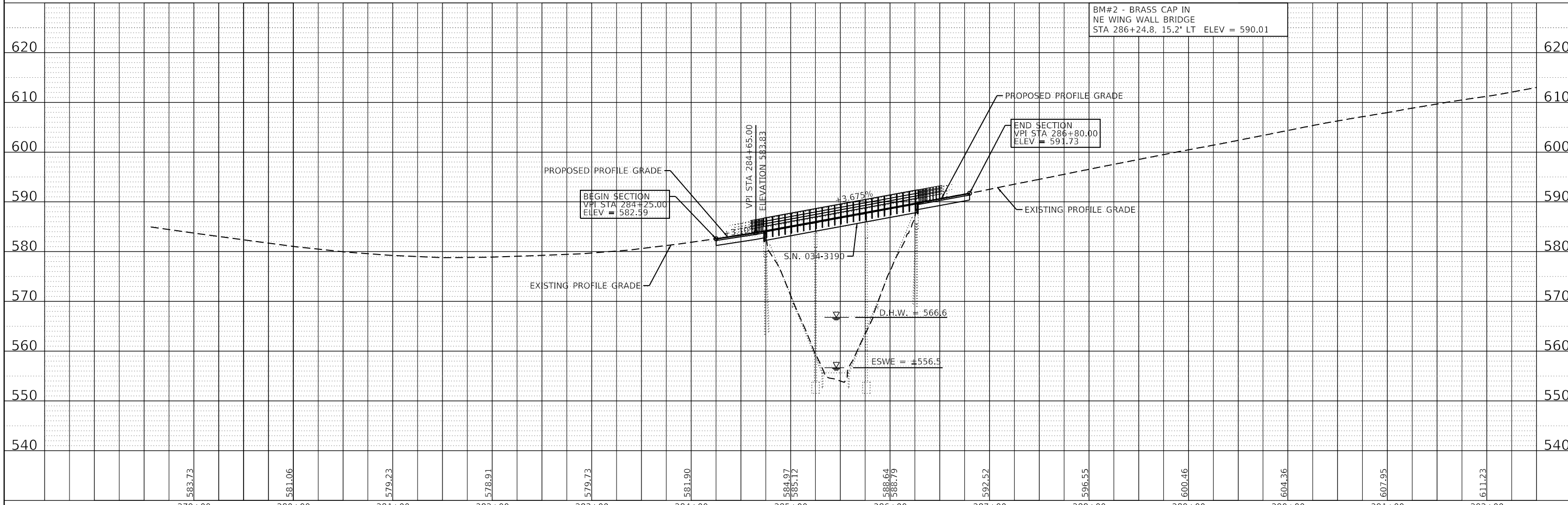
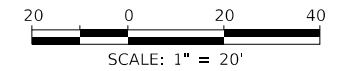
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GRADES CHECKED	
STRUCTURE	
NOT AT THIS OFFICE	
PROFILE	
NOTE BOOK NO.	

MILLER, ERIC G. & PAMELA J. 2032000406

**A** - EXISTING PAVEMENT REMOVAL  
 PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"  
 PROPOSED HMA BINDER COURSE, IL-19.0, N50, 3"  
 PROPOSED AGGREGATE BASE COURSE, TYPE A, 12"  
 PROPOSED GEOTECH FABRIC

**B** - PR GUARDRAIL (SEE SCHEDULES)

MILLER, ERIC G. & PAMELA J. 2032000406



FILE NAME =	USER NAME = oms	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE SHEET F.A.S. RTE. 433 (C.H. 19)</b>			FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	0:\20files\200181\18.Transportation\CADD Sheets\Shit-Plan01.dgn	DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	6			
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		CONTRACT NO. 93764							
	PLOT DATE = 4/16/2021	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



GENERAL NOTES

- 1) ROAD CLOSURE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD BLR-21 ALONG WITH THE DETAILS AND SPECIAL PROVISIONS.
- 2) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.
- 3) THE LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 4) ALL SIGNS SHALL BE REMOVED WHEN NOT REQUIRED FOR FUTURE USE.
- 5) THIS TRAFFIC CONTROL AND PROTECTION SHALL BE PAID FOR ACCORDING TO THE CONTRACT UNIT COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21.
- 6) THE EXACT LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE APPROVED BY THE ENGINEER.
- 7) PRIOR TO THE CLOSURE OF C.H. 19 (FAS 433), THE CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY SERVICES, HANCOCK COUNTY ENGINEER, TOWNSHIP ROAD DISTRICT, US POSTAL SERVICE, AND LOCAL SCHOOL DISTRICTS.

HANCOCK COUNTY ENGINEER:

MR. ELGIN BERRY, P.E.  
P.O. BOX 379  
101 SOUTH FIRST STREET  
CARTHAGE, IL 62621

PHONE: 217-357-3155

ST. MARY TOWNSHIP ROAD DISTRICT:

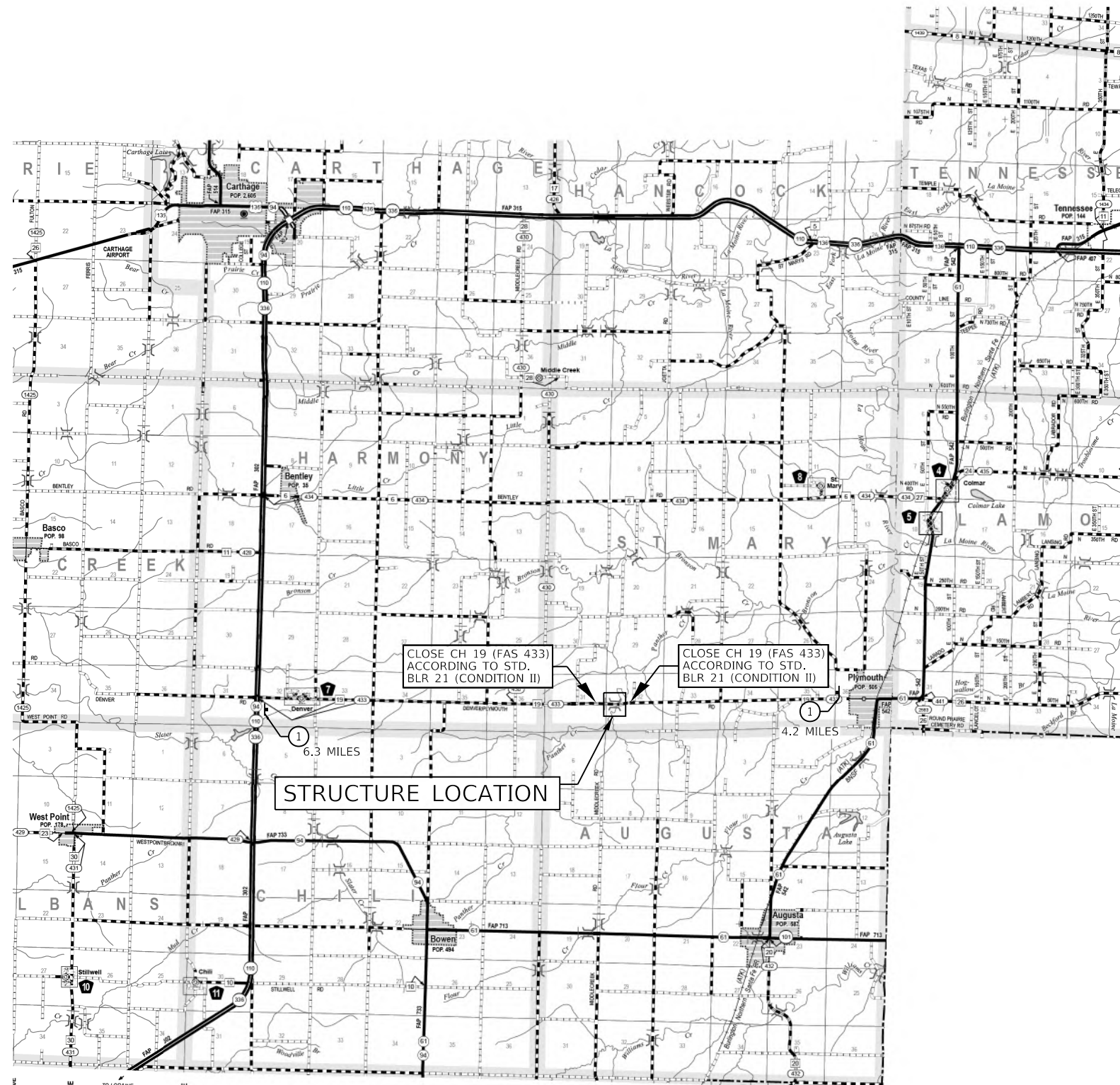
MR. MARK KELLY  
218 N. LIBERTY STREET  
PLYMOUTH, IL 62367

PHONE: 309-333-7364

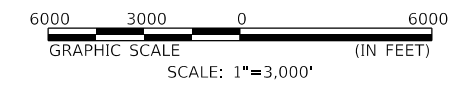
SOUTHEASTERN COMMUNITY UNIT SCHOOL DISTRICT 337:

SUPERINTENDANT  
DR. TODD FOX  
90 W. GREEN STREET  
AUGUSTA, IL 62311

PHONE: 217-392-2172



1 R11-3a (6030) (O)



TRAFFIC CONTROL PLAN

FILE NAME = D:\2015files\200181\18.Transportation\CADD	USER NAME = oms Sheets\Sh-T-C&P.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	TRAFFIC CONTROL PLAN F.A.S. RTE. 433 (C.H. 19)			FAS 433	SECTION 21-00139-00-BR	COUNTY HANCOCK	TOTAL SHEETS 35	SHEET NO. 7
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=3000'	SHEET 1	OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 93764		
	PLOT DATE = 4/15/2021	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

Bench Mark: Brass cap in northeast wingwall of bridge, Sta. 286+24.8, 15.2' Lt., NAVD 88 Elev. 590.01

Existing Structure: Structure Number 034-3190 was originally built in 1965 as F.A. Proj. S-433(102) under Section 45 1-6 in Hancock County. The structure consists of 10-21" deep precast prestressed concrete beams on concrete pier and abutment caps. The piers are supported by spread concrete footings and the abutments rest on steel H-piling. The back-to-back abutment length is 155'-3" and the out to out bridge width is 30'-0".

The existing PPC deck beams shall be removed and replaced. The roadway will be closed and traffic detoured during construction.

No salvage.

**SCOPE OF WORK**

- 1 Remove existing deck beams, wearing surface, concrete curbs and steel railing.
- 2 Add riprap above concrete slope wall.
- 3 Erect new deck beams and anchor into place.
- 4 Grout shear keys.
- 5 Place new hot-mix asphalt surface.

**INDEX OF SHEETS**

- 1 General Plan
- 2 General Details & Bill of Material
- 3 27" x 36" PPC Deck Beam
- 4 27" x 36" PPC Deck Beam Details
- 5 Steel Railing, Type SM
- 6 Abutment Details

**WATERWAY INFORMATION**

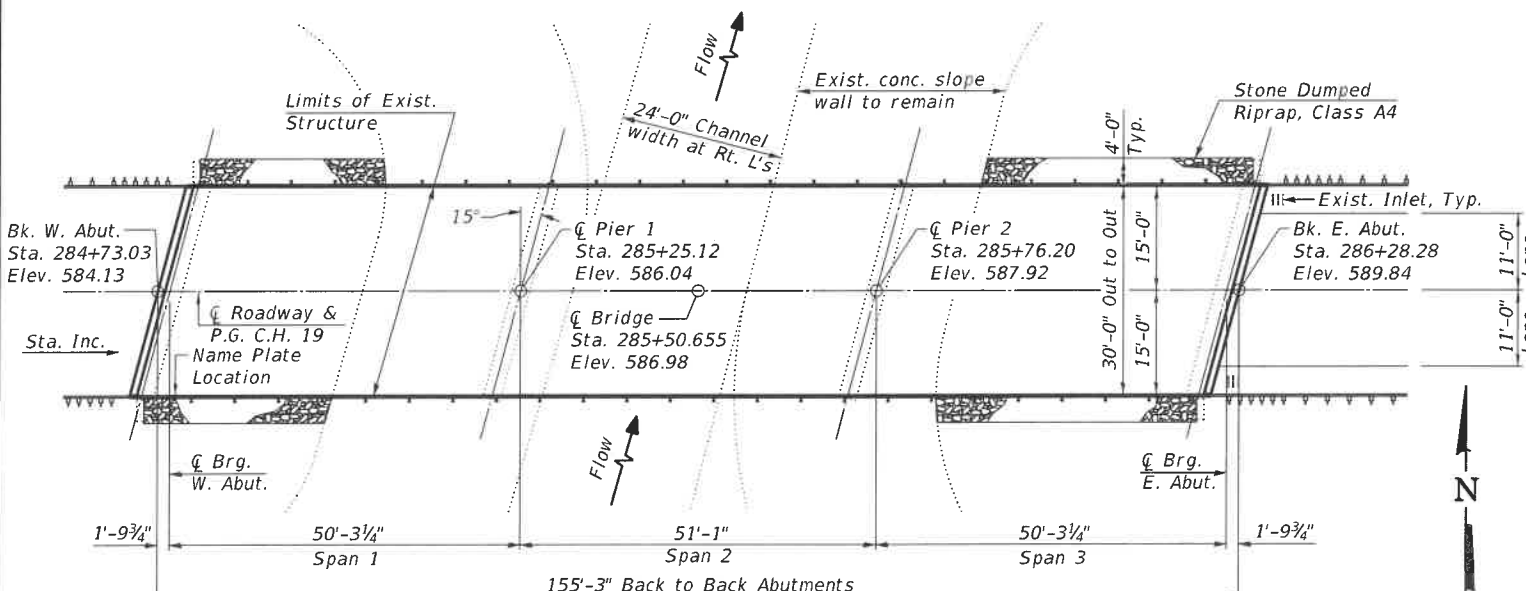
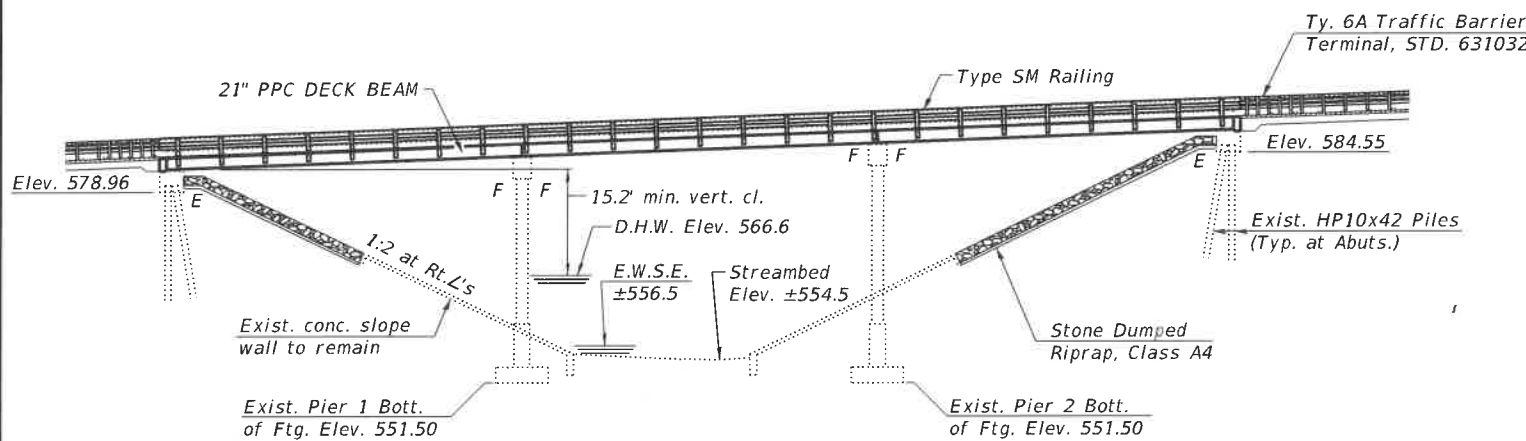
Drainage Area = 16.7 Sq. Mi.      Exist. Overtopping Elev. N/A  
Prop. Overtopping Elev. N/A

Flood Event	Freq. Yr.	Discharge C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E. Ft.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Ft. Exist.	Headwater El. Ft. Prop.
Design	10	2,630	294	294	565.6	0.3	0.3	565.9	565.9
Base	20	3,383	353	353	566.6	0.4	0.4	567.0	567.0
Scour Design	100	5,020	467	467	568.2	0.7	0.7	568.9	568.9
Overtop Exist.	>500								
Overtop Prop.	>500								
Max. Calc.	500	6,860	583	583	569.6	1.0	1.0	570.6	570.6

10 year velocity through proposed bridge = 5.0 ft./sec.

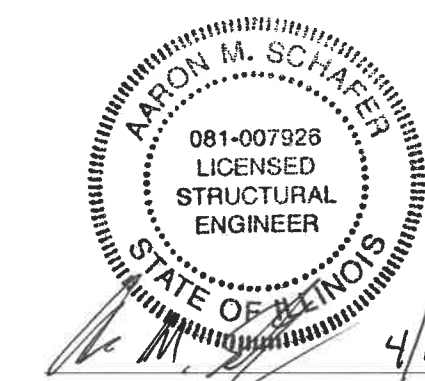
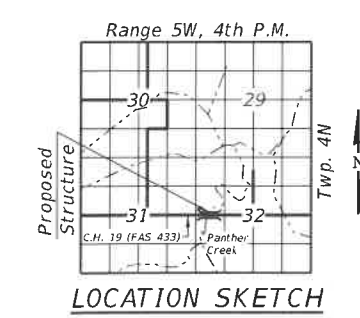
**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)				
	S. Abut.	Pier 1	Pier 2	N. Abut.	Item 113
State Q100	N/A	553.0	555.0	N/A	5
Design	578.96	551.50	551.50	584.55	



**DESIGN STRESSES**  
**FIELD UNITS (EXISTING CONST.)**  
 f'c = 3,500 psi (Substructure Units)  
 fy = 40,000 psi (Reinforcement)  
**PRECAST PRESTRESSED UNITS (NEW CONST.)**  
 f'c = 6,000 psi  
 f'ci = 5,000 psi  
 fpu = 270,000 psi (1/2" dia. low lax. strands)  
 fpbt = 201,690 psi (1/2" dia. low lax. strands)

**SEISMIC DATA**  
 Seismic Performance Category (SPC) = A  
 Horizontal Bedrock Acceleration Coefficient (A) = 0.041g  
 Site Coefficient (S) = 1.0  
**LOADING HS20-44 (NEW CONST.)**  
 Allow 25#/sq. ft. for future wearing surface.  
**DESIGN SPECIFICATIONS (NEW CONST.)**  
 2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition



Aaron M. Schafer  
 Licensed Structural Engineer  
 State of Illinois No. 081-007926  
 License Expires 11/30/2022  
 Date: 4/16/2021

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 Standard Specifications for Highway Bridges".

**GENERAL PLAN**  
**C.H. 19 (FAS RTE 433)**  
**OVER PANTHER CREEK**  
**SECTION 21-00139-00-BR**  
**HANCOCK COUNTY**  
**STATION 285+50.655**  
**STRUCTURE NO. 034-3190**

<b>KLINGNER &amp; ASSOCIATES, P.C.</b> Engineers • Architects • Surveyors 616 N. 24TH ST., QUINCY, ILLINOIS 62301 217-223-3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2739	USER NAME = r.jp	DESIGNED - RJP	REVISED -	<b>HANCOCK COUNTY</b> <b>HIGHWAY DEPARTMENT</b>	<b>GENERAL PLAN</b> <b>STRUCTURE NO. 034-3190</b> SHEET NO. 1 OF 6 SHEETS	F.A.S. RTE. 433	SECTION 21-00139-00-BR	COUNTY HANCOCK	TOTAL SHEETS 35	SHEET NO. 8
	PLOT SCALE = 1:333333 1/4" = 1'	DRAWN - RJP	REVISED -			CONTRACT NO. 93764	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 4/15/2021	CHECKED - AMS	REVISED -							



**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Plan dimensions and details relative to existing structure have been taken from existing plans, and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variation shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 Removal of Existing Superstructures includes removal of the existing PPC deck beams, existing oil & chip wearing surface, concrete curbs, and steel railing.  
 After existing PPC deck beams are removed, the top of the caps shall be inspected for repairs. Burn existing dowel rods flush with cap surface and grind smooth, then seal with epoxy. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).

Current Ratings on File for Existing Structure

S.N. 034-3190:

Inventory - 0.15

Operating - 1.30

Live Load Restrictions: No

Delineators are in place over the north exterior beam to remove traffic from that location due to its deteriorated condition.

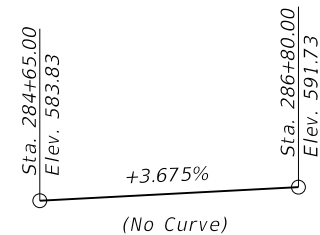
Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS Loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily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

PANTHER CREEK  
 RE-BUILT 202\_ BY  
 HANCOCK COUNTY  
 SEC. 21-00139-00-BR  
 F.A.S. RTE. 433 STA. 285+50.655  
 STR. NO. 034-3190 LOADING HS20-44

**NAME PLATE**

See Std. 515001

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

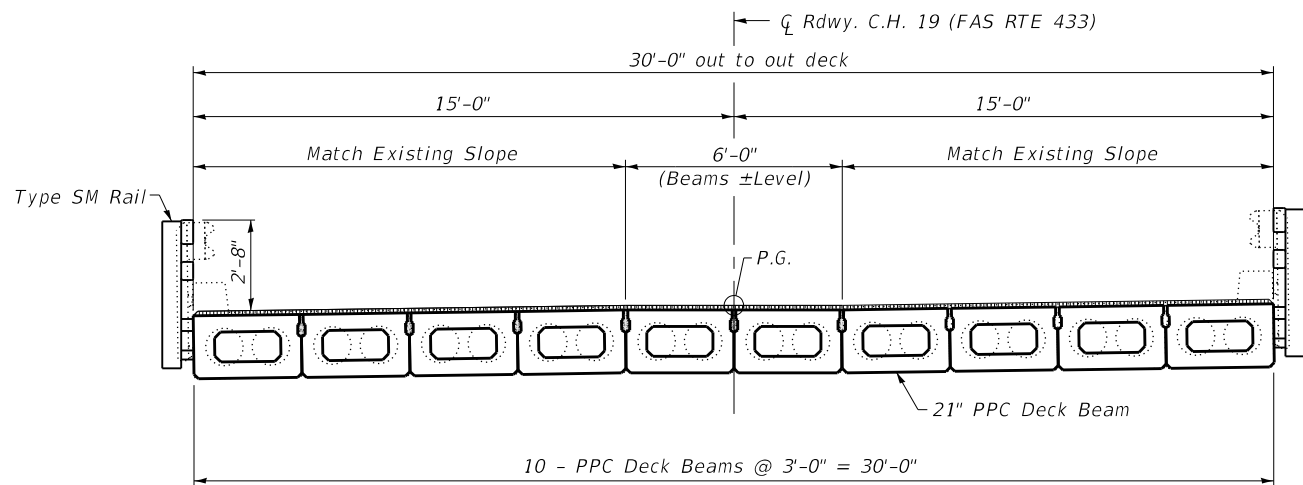


**PROFILE GRADE**

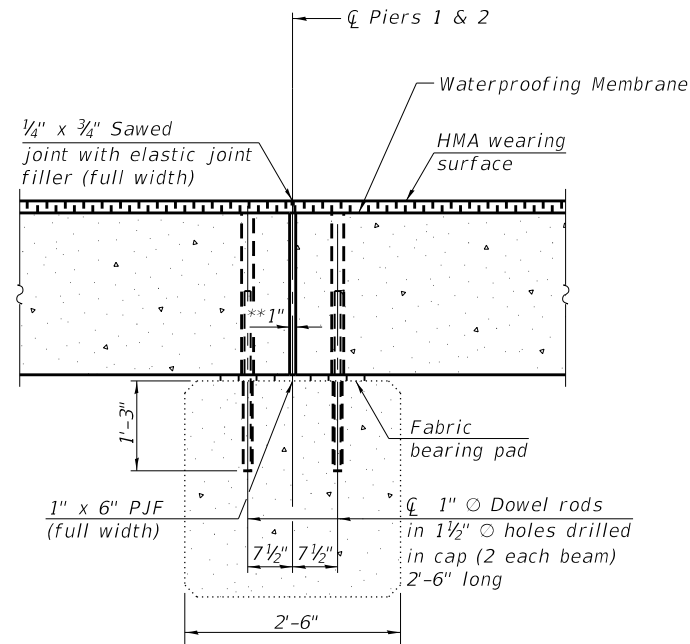
(Along C Roadway C.H. 19)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	Ton		197	197
Filter Fabric	Sq. Yd.		296	296
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	63		63
Removal of Existing Superstructures	Each	1		1
Concrete Structures	Cu. Yd.		5.0	5.0
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	4,590		4,590
Reinforcement Bars, Epoxy Coated	Pound		620	620
Steel Railing, Type SM	Foot	306		306
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	511		511
Asbestos Bearing Pad Removal	Each	20		20

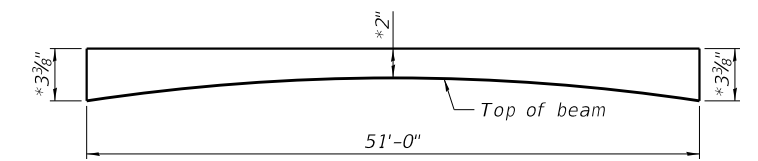


**SECTION THRU DECK**  
(Looking East)



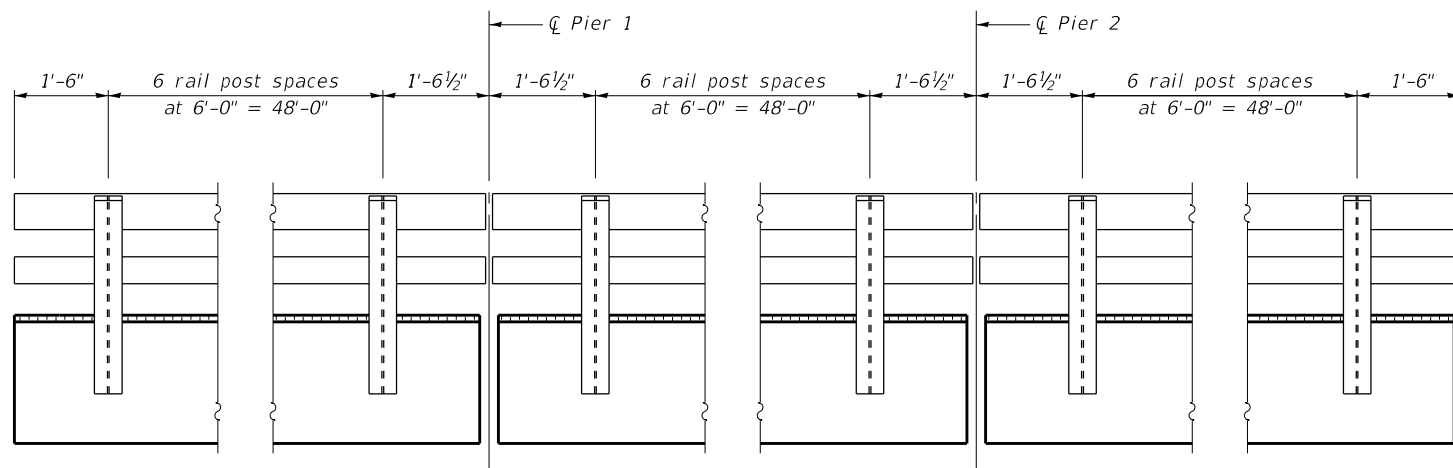
**SECTION THRU PIERS**

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

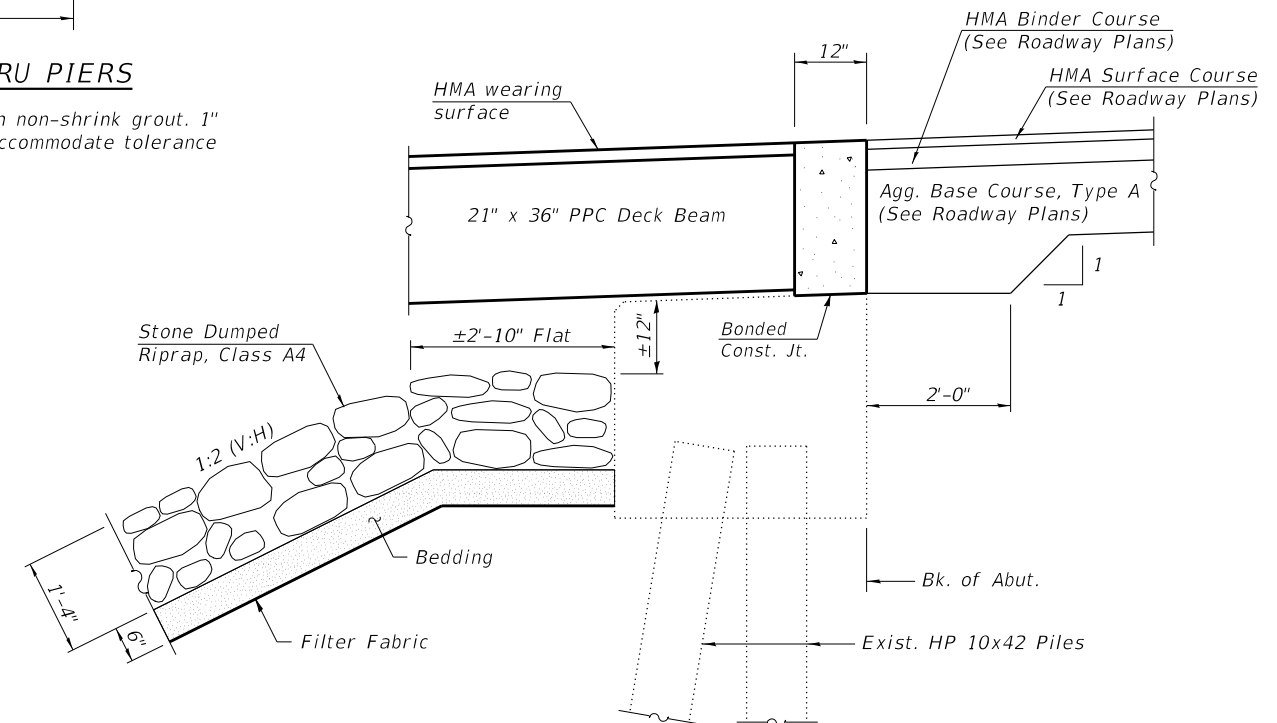


**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only)

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



**RAIL POST SPACING**



**SECTION THRU ABUTMENTS**  
(At Rt. L's)

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**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

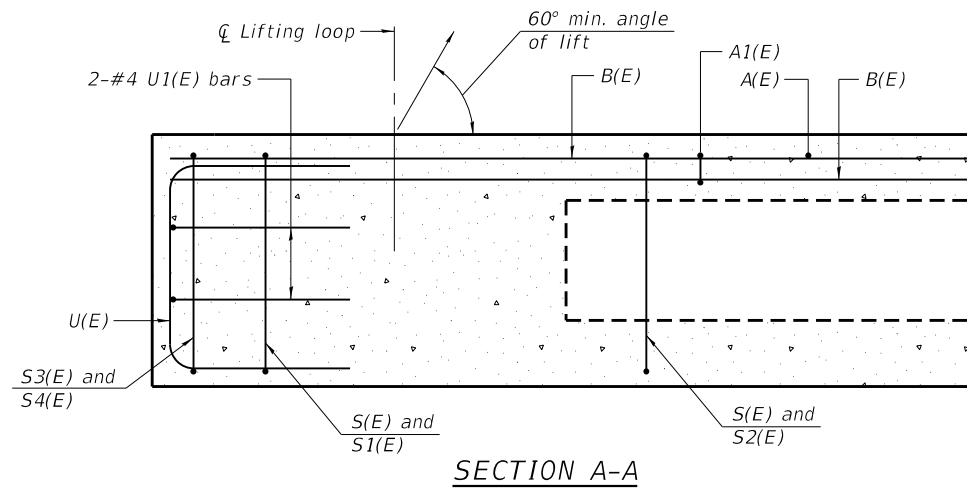
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HANCOCK COUNTY  
 HIGHWAY DEPARTMENT

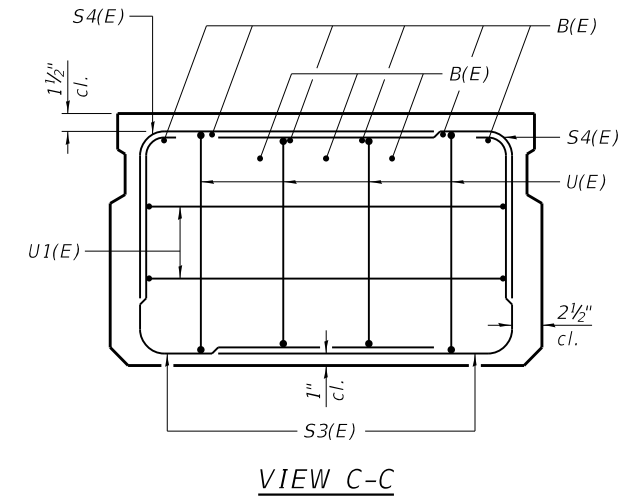
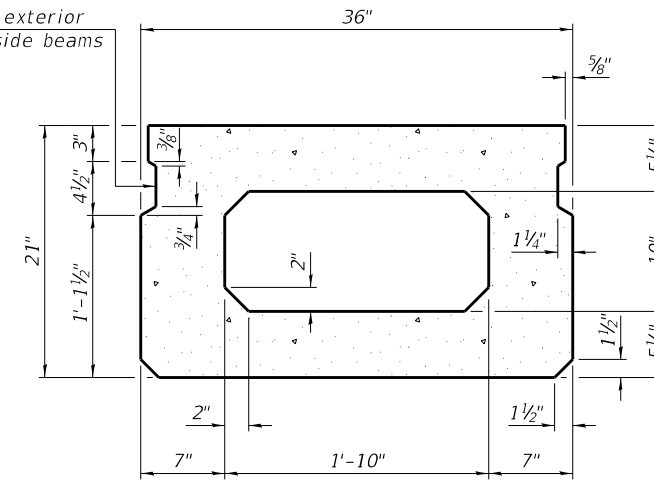
GENERAL DETAILS & BILL OF MATERIAL  
 STRUCTURE NO. 034-3190

SHEET NO. 2 OF 6 SHEETS

F.A.S. RTE. 433	SECTION 21-00139-00-BR	COUNTY HANCOCK	TOTAL SHEETS 35	SHEET NO. 9
CONTRACT NO. 93764			ILLINOIS FED. AID PROJECT	

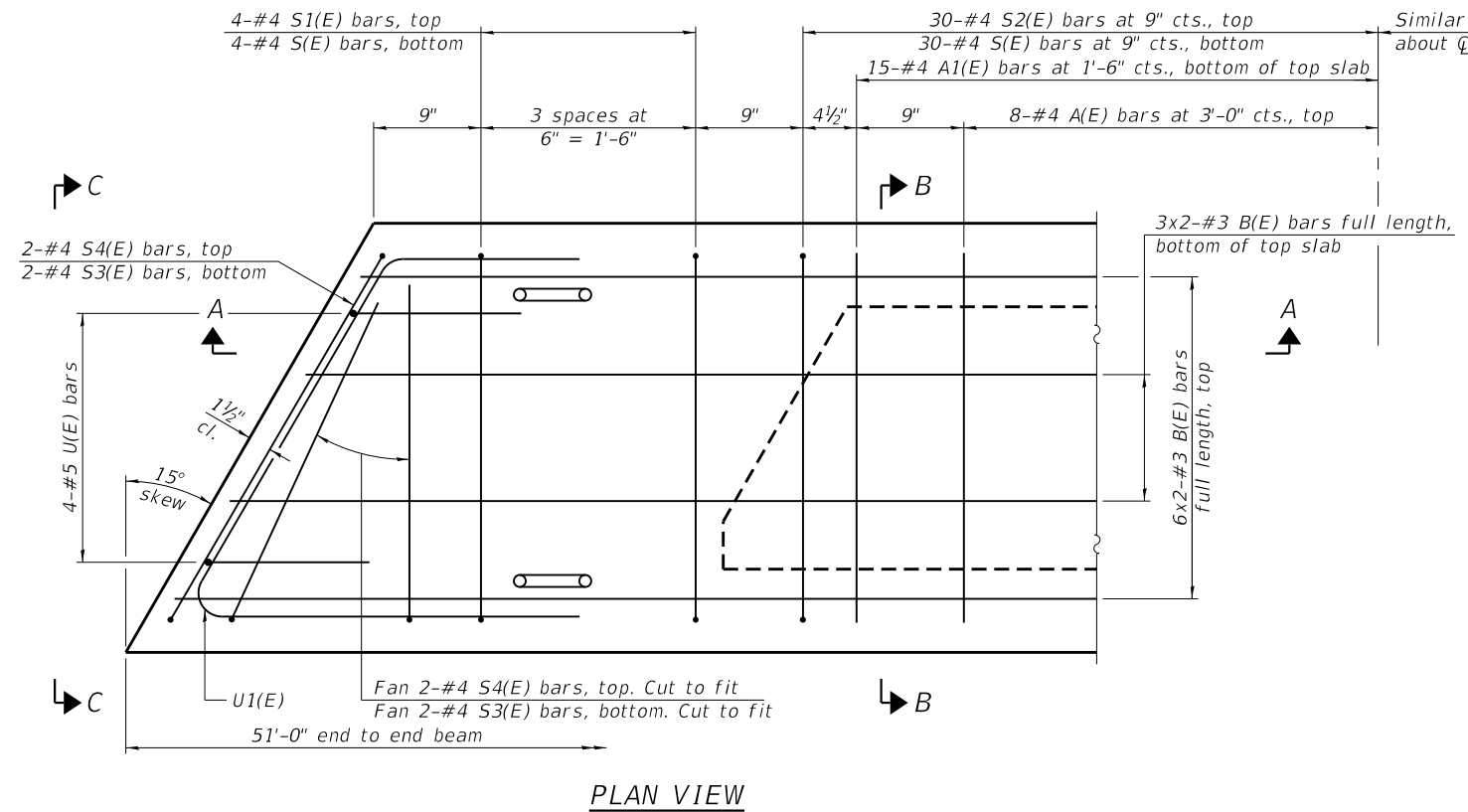


Omit key on exterior face of outside beams



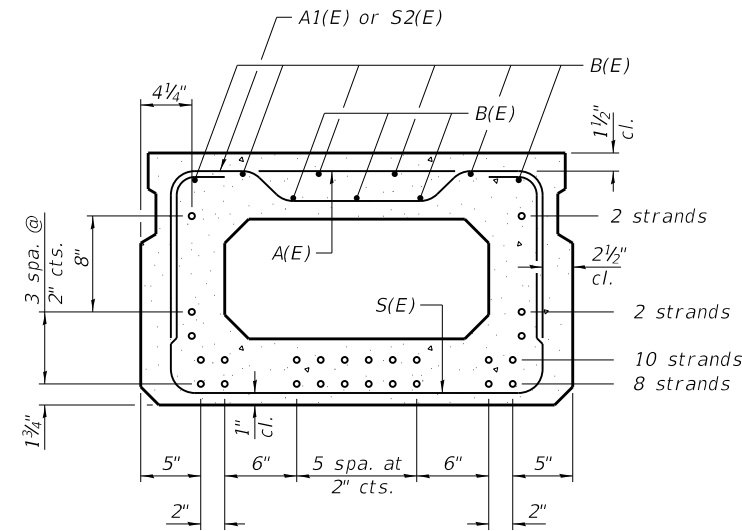
SECTION B-B  
(Showing dimensions)

VIEW C-C



PLAN VIEW

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.



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.

BAR LIST  
ONE BEAM ONLY  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	15	#4	2'-7"	—
A1(E)	30	#4	2'-10"	—
B(E)	18	#3	26'-2"	—
S(E)	68	#4	6'-5"	⌊
S1(E)	8	#4	4'-11"	⌊
S2(E)	60	#4	5'-2"	⌊
S3(E)	8	#4	4'-2"	⌊
S4(E)	8	#4	3'-5"	⌊
U(E)	8	#5	4'-0"	⌊
U1(E)	4	#4	5'-9"	⌊

Note:  
See sheet 4 of 6 for additional details and Bill of Material.

MINIMUM BAR LAP  
#3 bar = 1'-6"

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PD-2136-L

1-1-2020

**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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HANCOCK COUNTY  
HIGHWAY DEPARTMENT

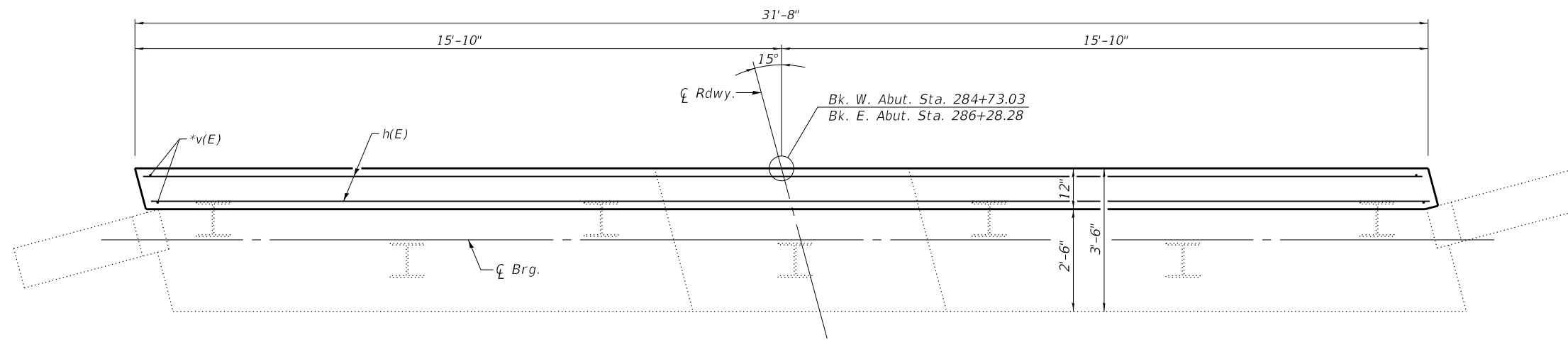
21" X 36" PPC DECK BEAM DETAILS  
STRUCTURE NO. 034-3190

SHEET NO. 3 OF 6 SHEETS

F.A.S. RTE. 433	SECTION 21-00139-00-BR	COUNTY HANCOCK	TOTAL SHEETS 35	SHEET NO. 10
CONTRACT NO. 93764			ILLINOIS FED. AID PROJECT	

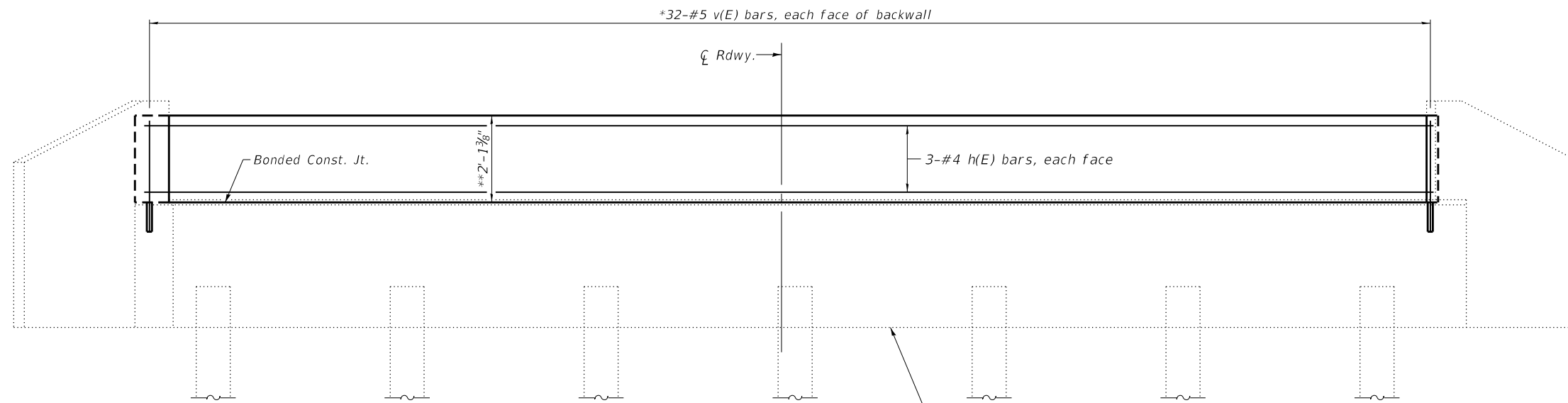






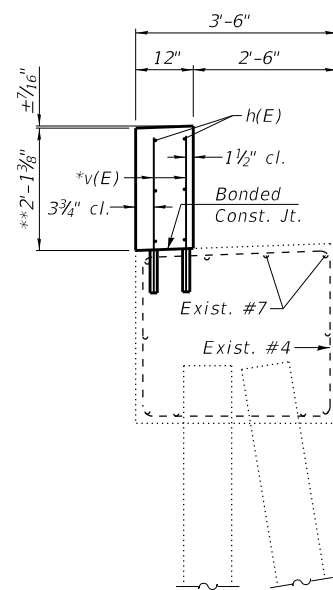
**ELEVATION**

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

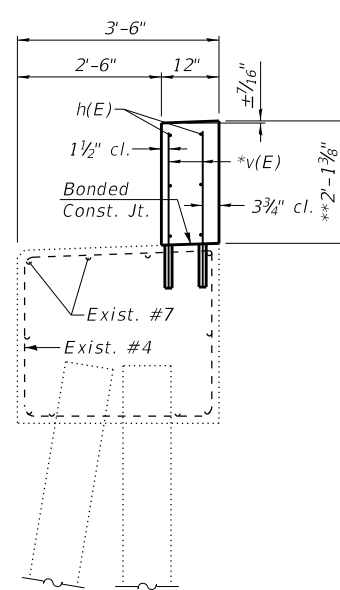


**ELEVATION**

Bottom of W. Abut. Elev. 578.96  
Bottom of E. Abut. Elev. 584.55



**SECTION THRU W. ABUT.**



**SECTION THRU E. ABUT.**

\*\*Depth based on 1" bearing pad, 21" beam, and 3 3/8" HMA overlay.

**BILL OF MATERIAL**

(2 Abutments)

Bar	No.	Size	Length	Shape
h(E)	12	#4	31'-4"	—
V(E)	128	#5	2'-9"	—
Concrete Structures		Cu. Yd.		5.0
Reinforcement Bars, Epoxy Coated		Pound		620

Notes:  
Backwalls shall be poured after beams are in place.  
All exposed edges shall have standard 3/4" chamfers unless noted otherwise.

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**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3970  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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**HANCOCK COUNTY  
HIGHWAY DEPARTMENT**

**ABUTMENT DETAILS  
STRUCTURE NO. 034-3190**

SHEET NO. 6 OF 6 SHEETS

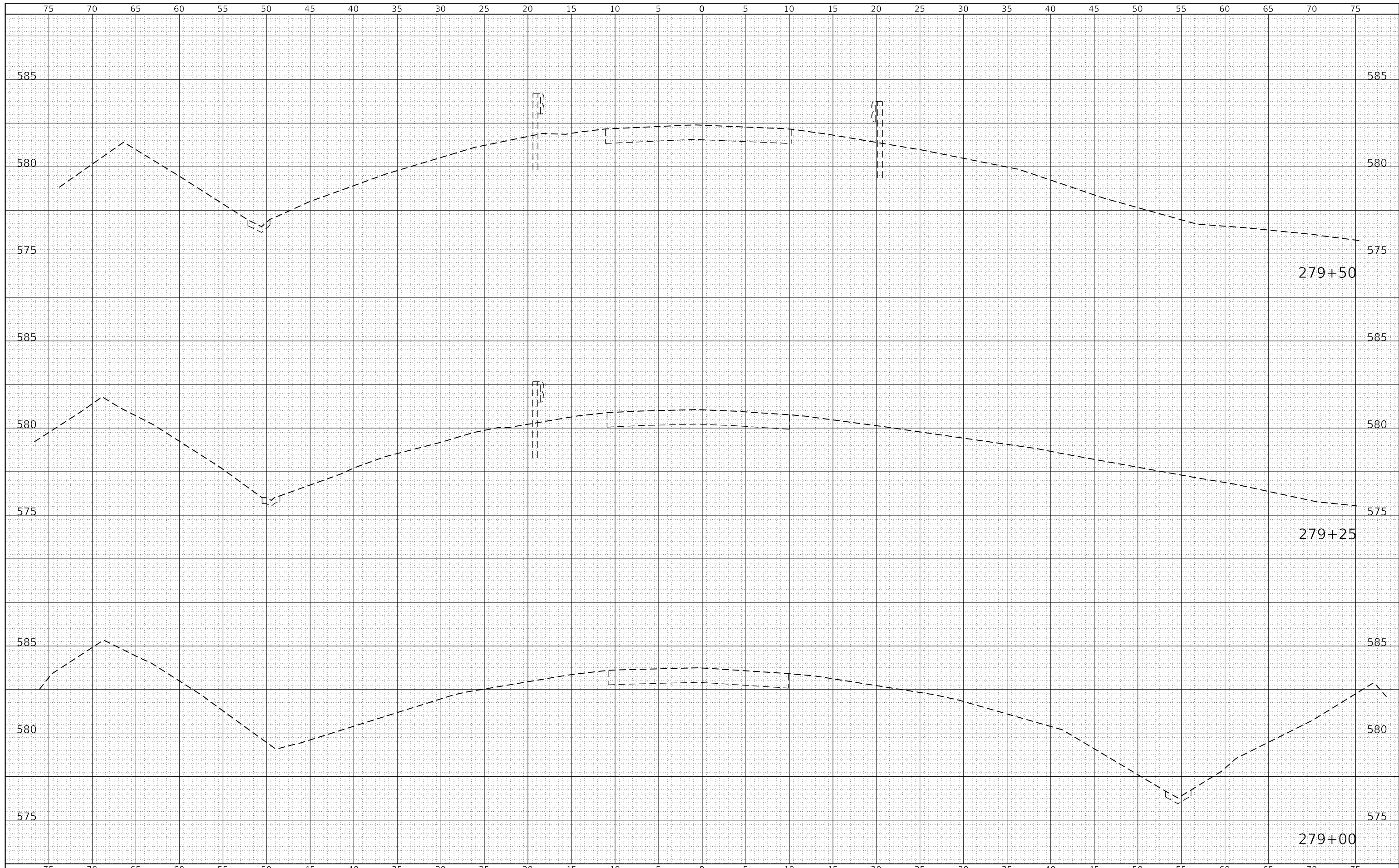
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433	21-00139-00-BR	HANCOCK	35	13
CONTRACT NO. 93764				

ILLINOIS FED. AID PROJECT



DATE	
BY	
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SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

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**HANCOCK COUNTY  
 HIGHWAY DEPARTMENT**

**CROSS SECTION SHEET  
 F.A.S. RTE. 433 (C.H. 19)**

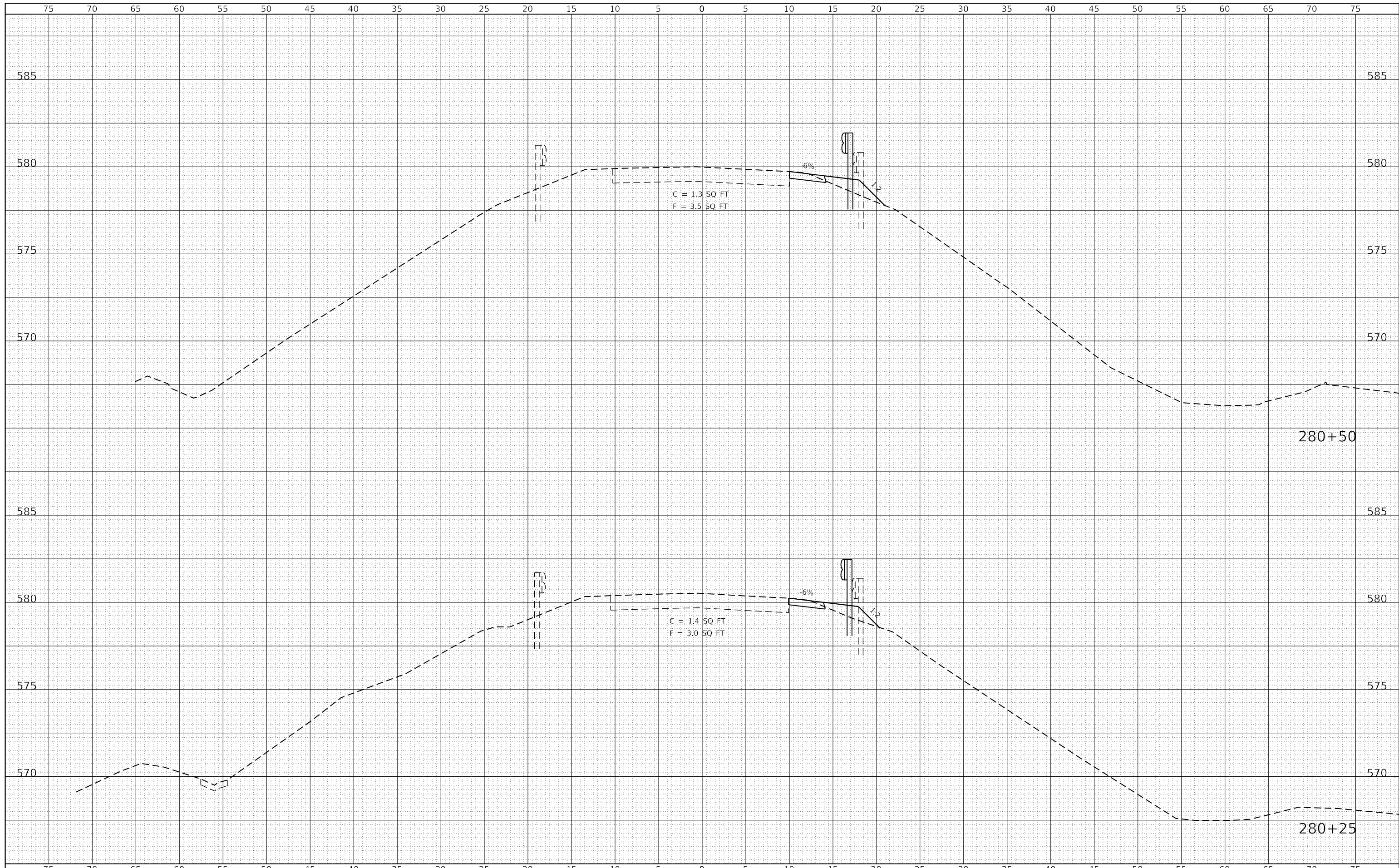
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FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
433	21-00139-00-BR	HANCOCK	35	14
CONTRACT NO. 93764				
ILLINOIS FED. AID PROJECT				



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**HANCOCK COUNTY  
 HIGHWAY DEPARTMENT**

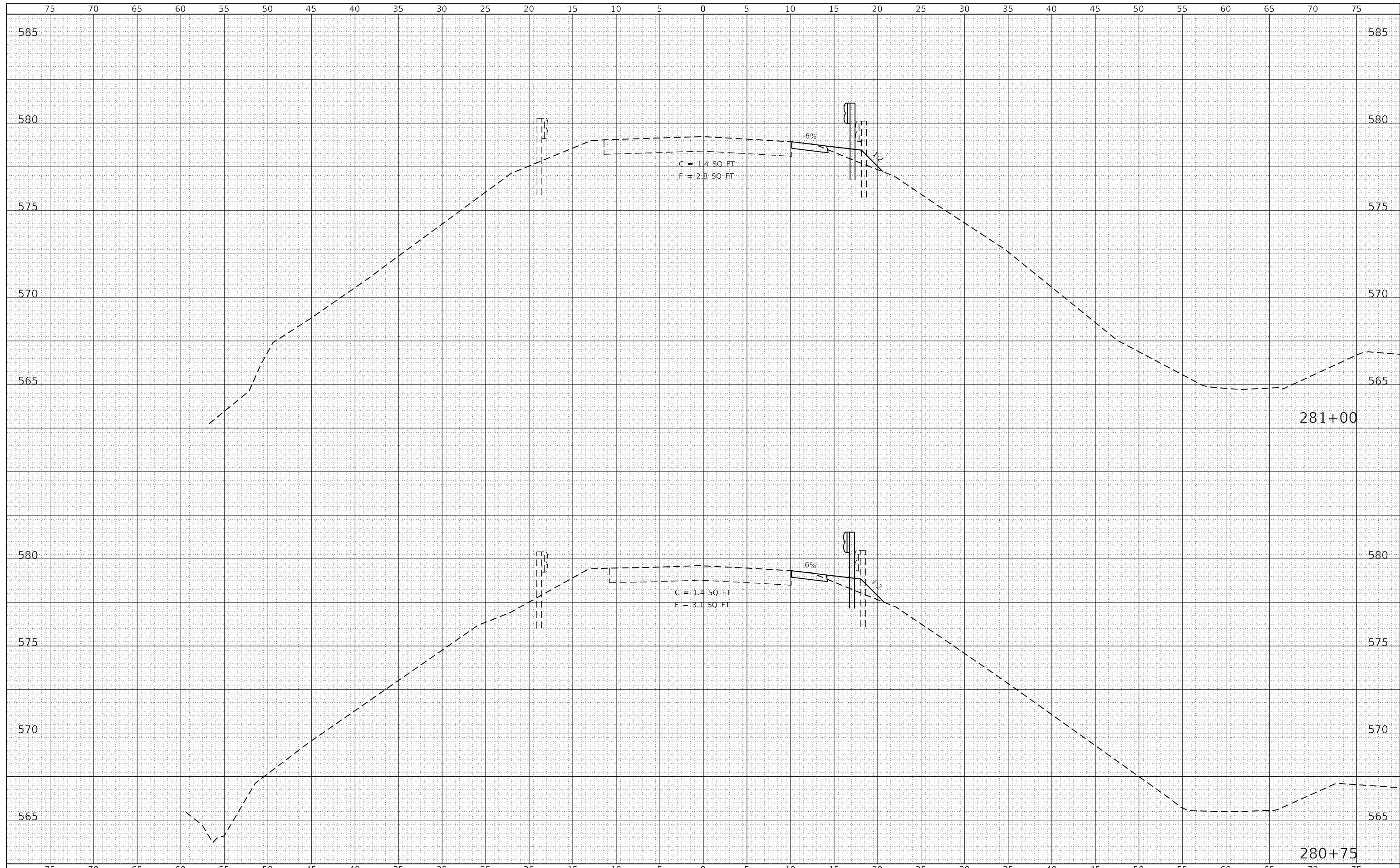
**CROSS SECTION SHEET  
 F.A.S. RTE. 433 (C.H. 19)**

SCALE:  $\frac{1"=50' H}{1"=2.5' V}$  SHEET 3 OF 22 SHEETS STA. 280+25 TO STA. 280+50

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
433	21-00139-00-BR	HANCOCK	35	16
CONTRACT NO. 93764				
ILLINOIS FED. AID PROJECT				

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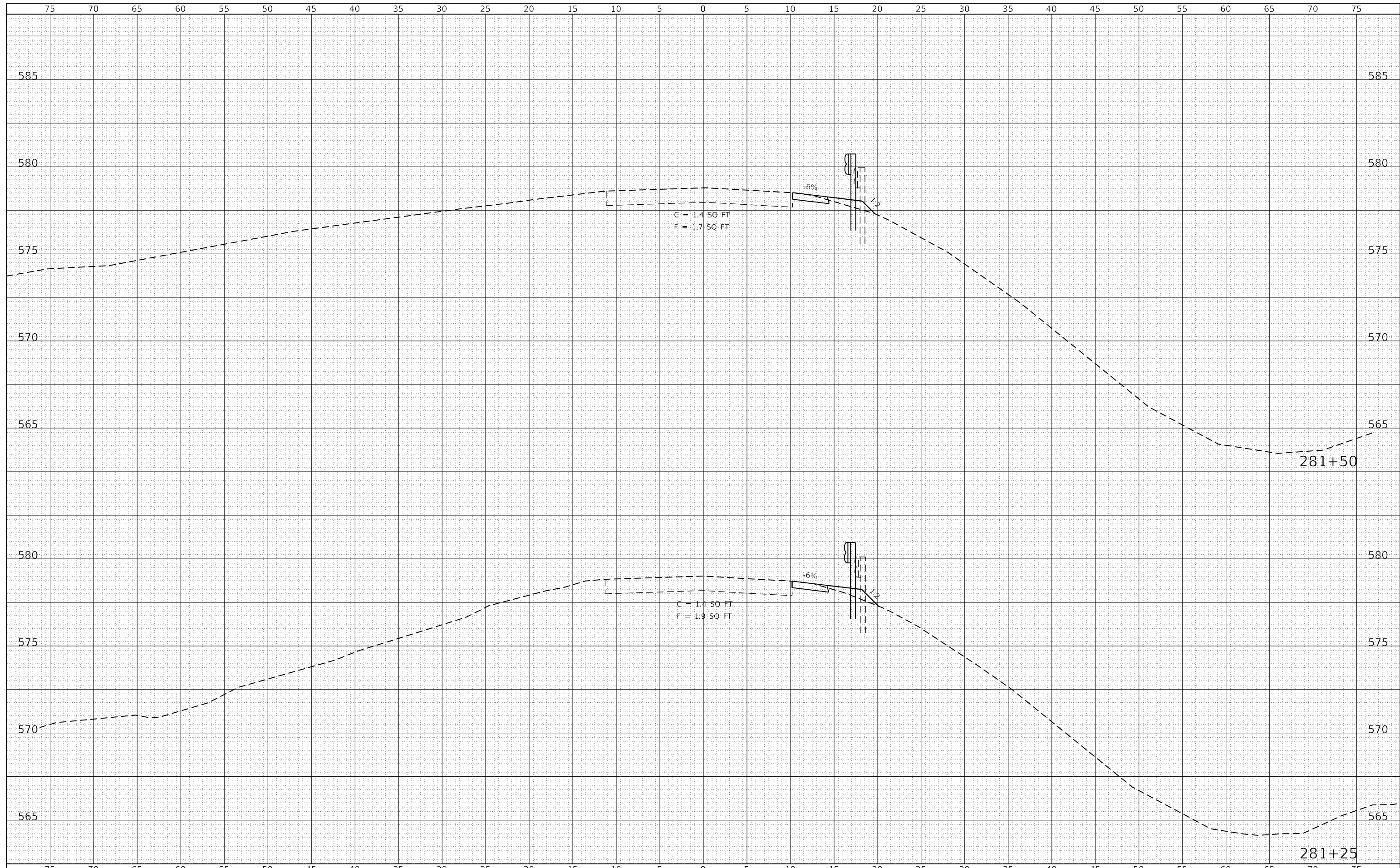
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NOTE BOOK	PLOTTED
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	PLOT DATE = 4/15/2021	DATE -	REVISED -								

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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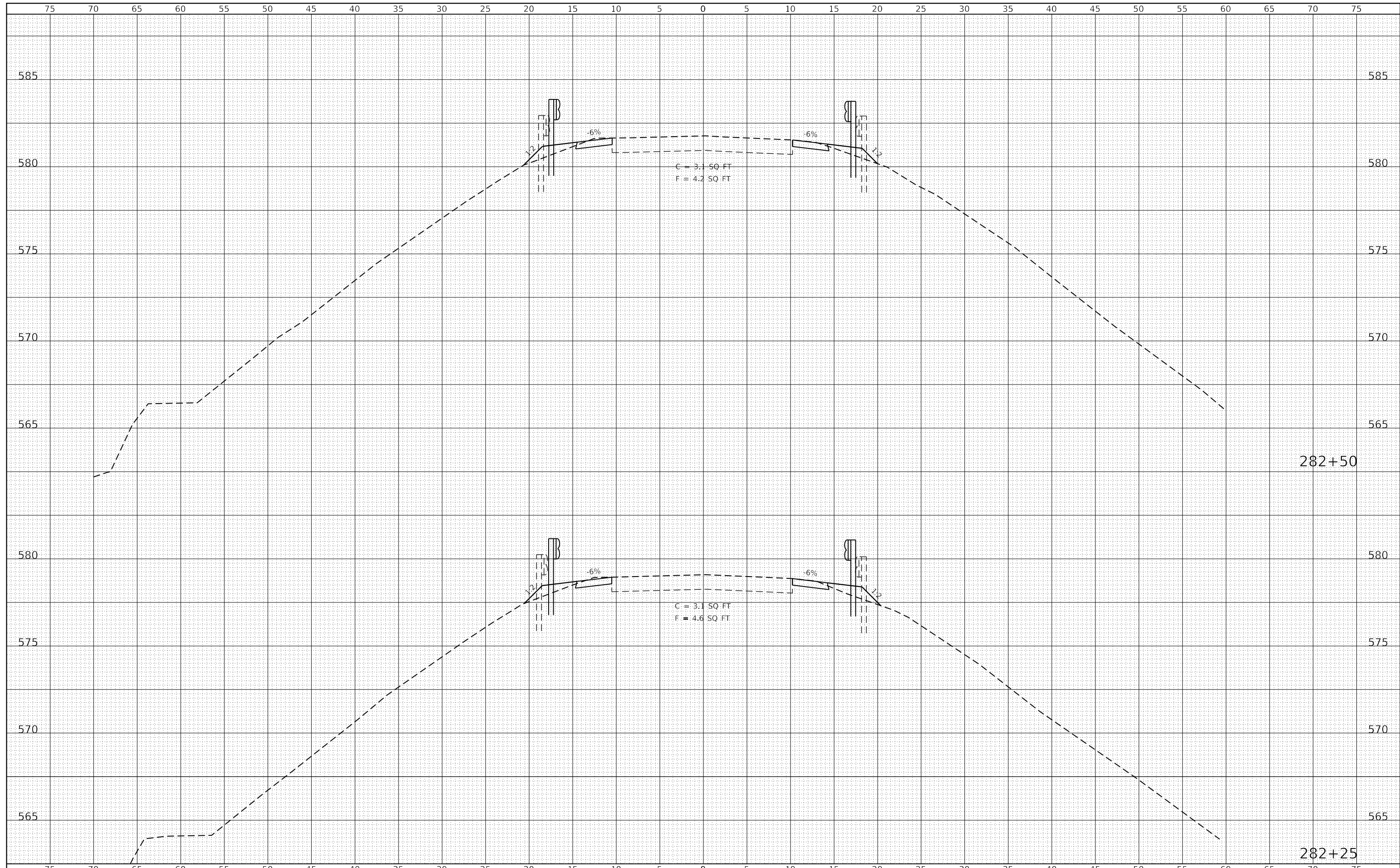
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		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							





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NOTE BOOK	PLOTTED
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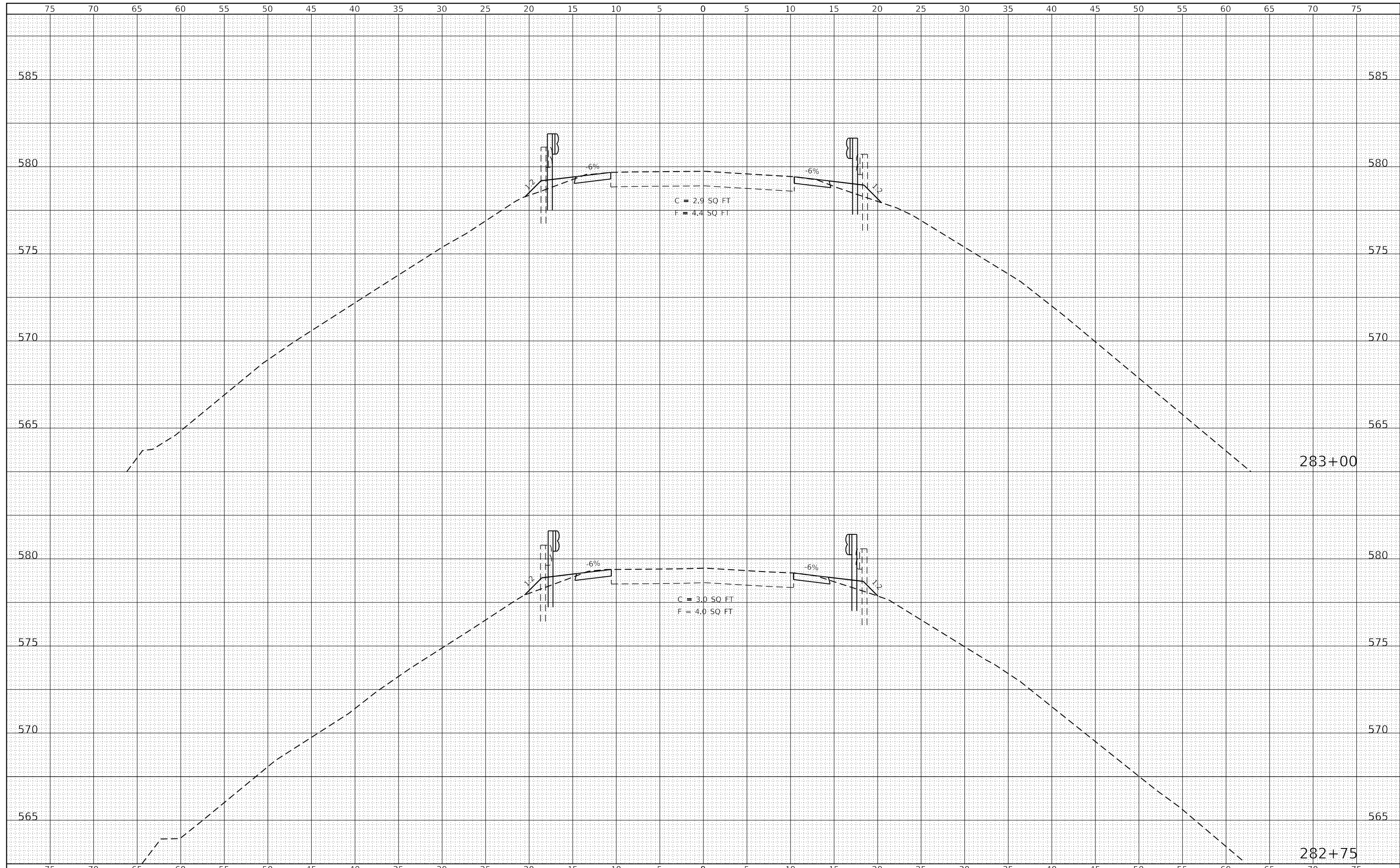
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	AREAS
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FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET F.A.S. RTE. 433 (C.H. 19)</b>	FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets\Sh-X5.dgn	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -			433	21-00139-00-BR	HANCOCK	35	20
Default	PLOT DATE = 4/15/2021	CHECKED -	REVISED -			<b>CONTRACT NO. 93764</b>				
		DATE -	REVISED -			SCALE: 1"=50'	SHEET 7 OF 22 SHEETS	STA. 282+25	TO STA. 282+50	ILLINOIS FED. AID PROJECT

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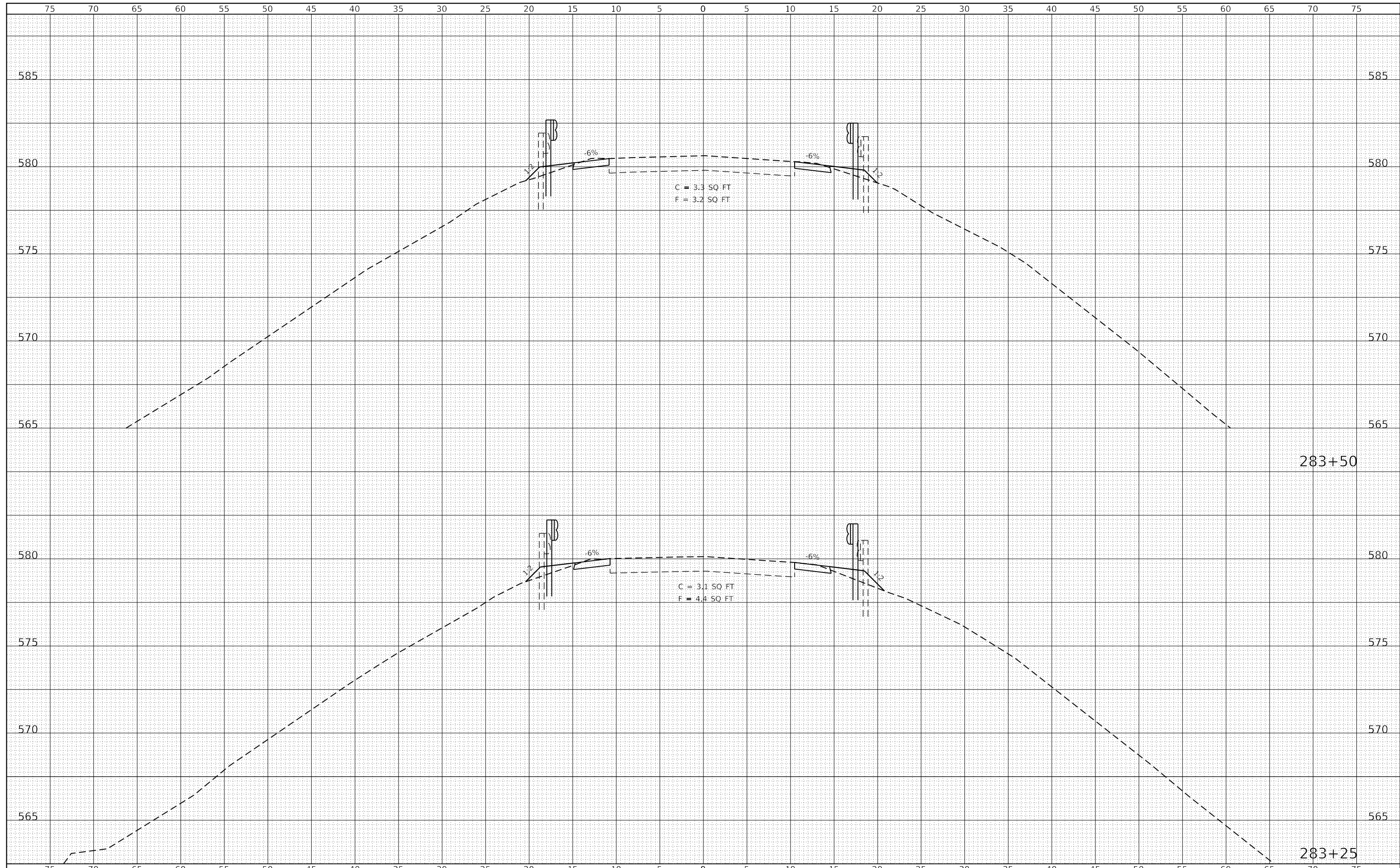
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FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET</b> <b>F.A.S. RTE. 433 (C.H. 19)</b>		FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets	Sh-X5.dgn	DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	21	<b>CONTRACT NO. 93764</b>	
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 8 OF 22 SHEETS	STA. 282+75	TO STA. 283+00	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 4/15/2021	DATE -	REVISED -								

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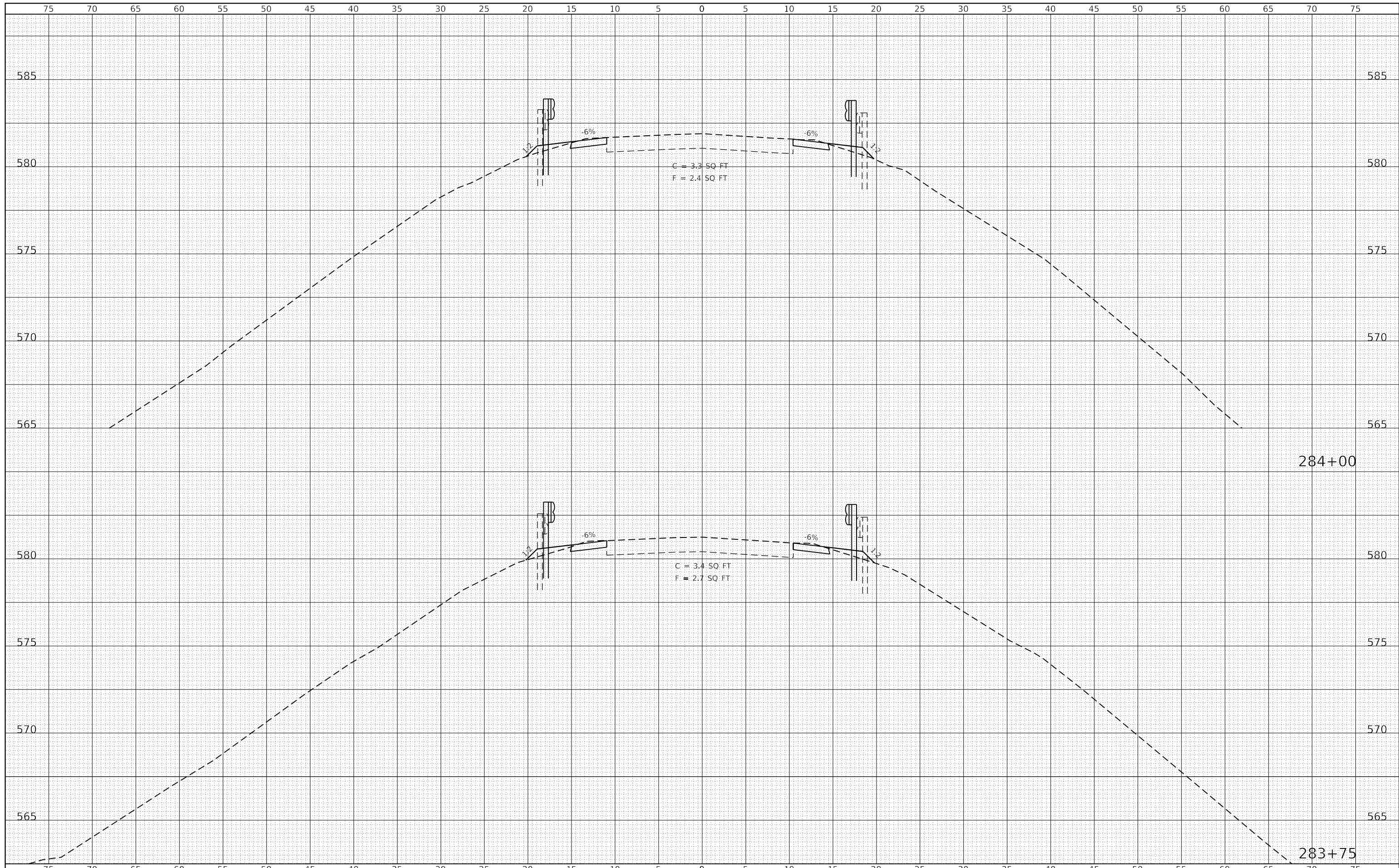
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FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET F.A.S. RTE. 433 (C.H. 19)</b>			FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets\Sh-X5.dgn		DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	22	<b>CONTRACT NO. 93764</b>		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 9 OF 22 SHEETS	STA. 283+25	TO STA. 283+50	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 4/15/2021	DATE -	REVISED -									

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**HANCOCK COUNTY  
 HIGHWAY DEPARTMENT**

**CROSS SECTION SHEET  
 F.A.S. RTE. 433 (C.H. 19)**

SCALE: 1"=50'H  
 1"=2.5V  
 SHEET 10 OF 22 SHEETS  
 STA. 283+75 TO STA. 284+00

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
433	21-00139-00-BR	HANCOCK	35	23
<b>CONTRACT NO. 93764</b>				
ILLINOIS FED. AID PROJECT				









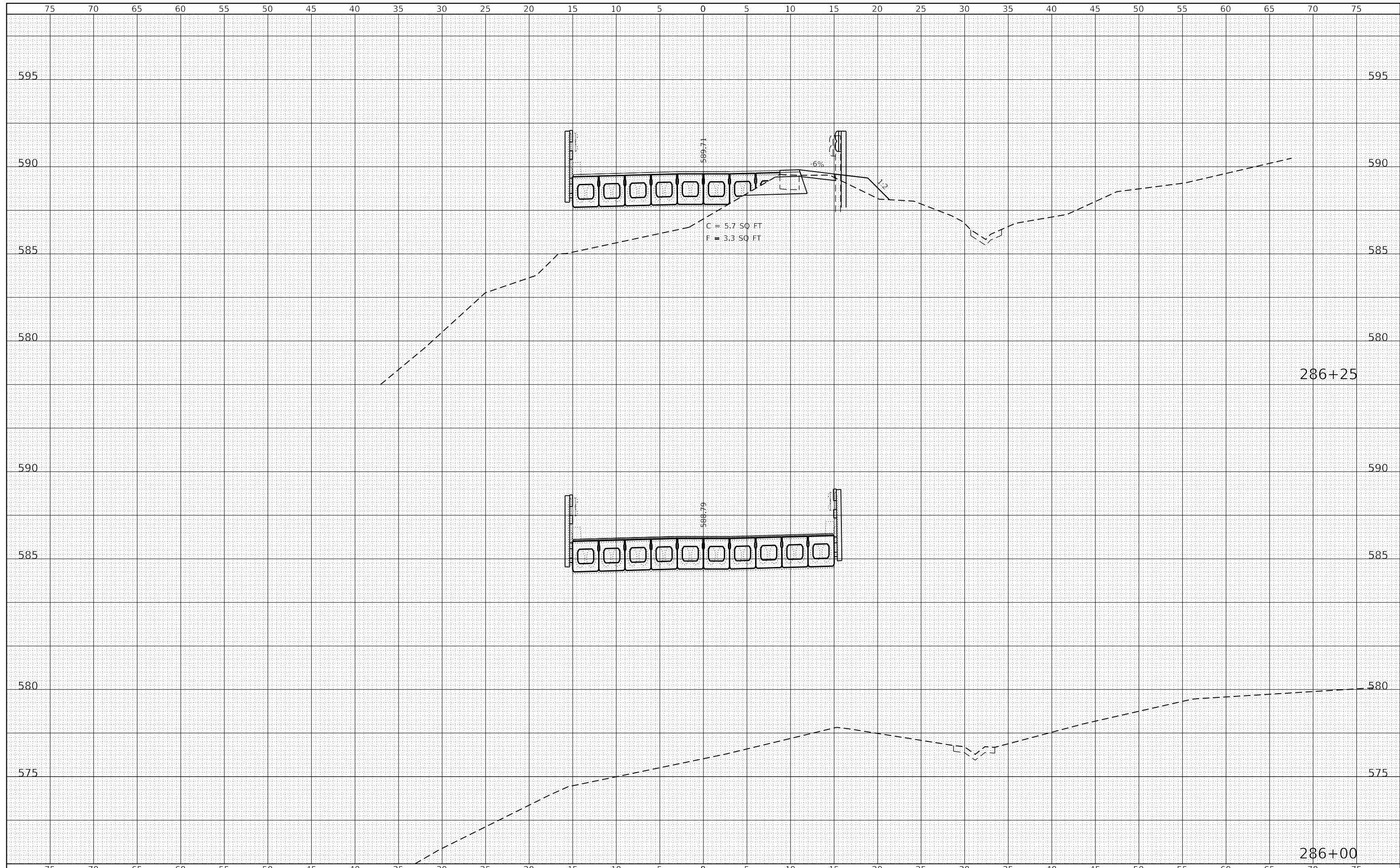






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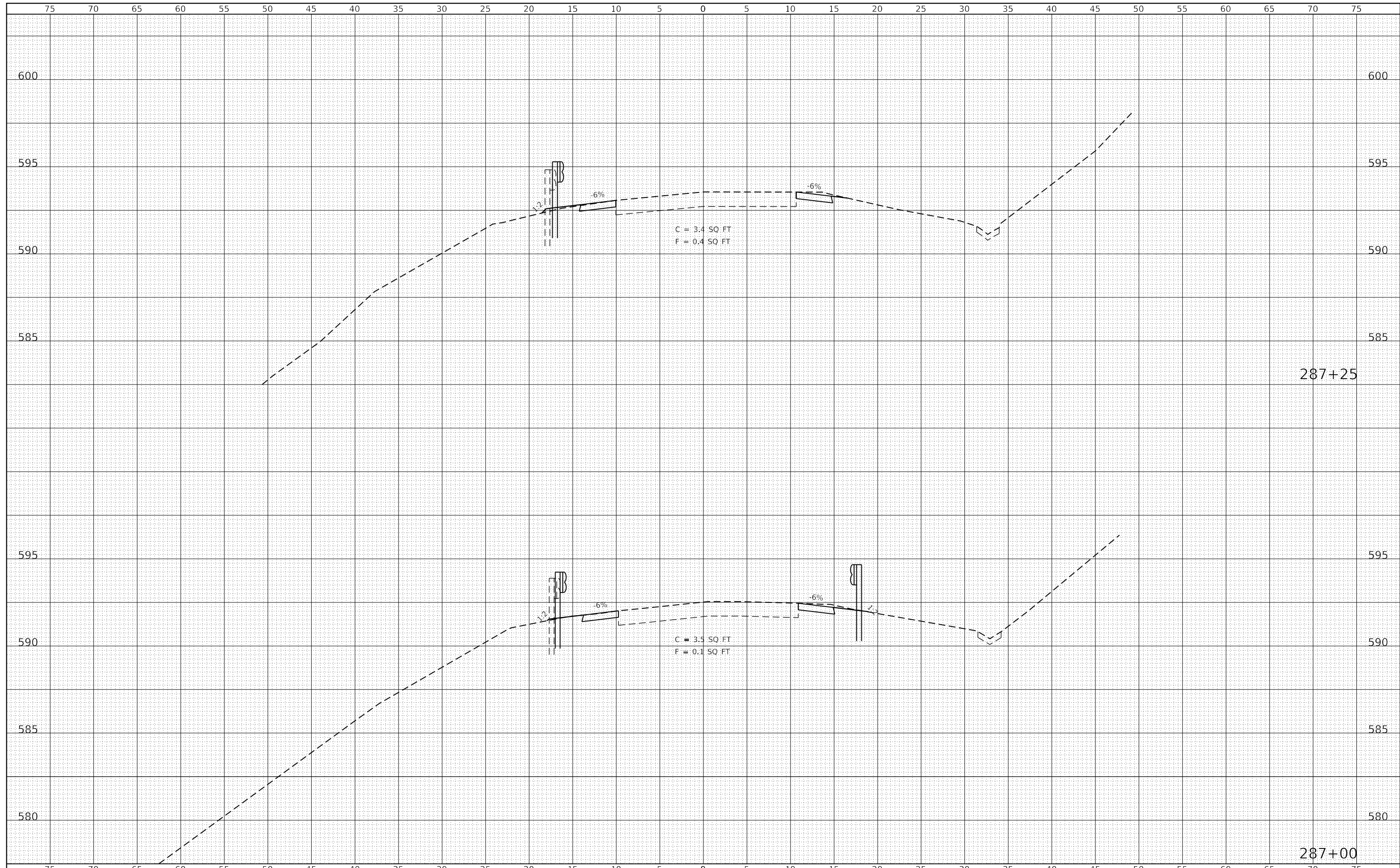


FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET F.A.S. RTE. 433 (C.H. 19)</b>		FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets\	Sh-t-XS.dgn	DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	29	<b>CONTRACT NO. 93764</b>	
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: $\frac{1"=50'}$ $\frac{1"=2.5'}$	SHEET 16 OF 22 SHEETS	STA. 286+00	TO STA. 286+25	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 4/15/2021	DATE -	REVISED -								



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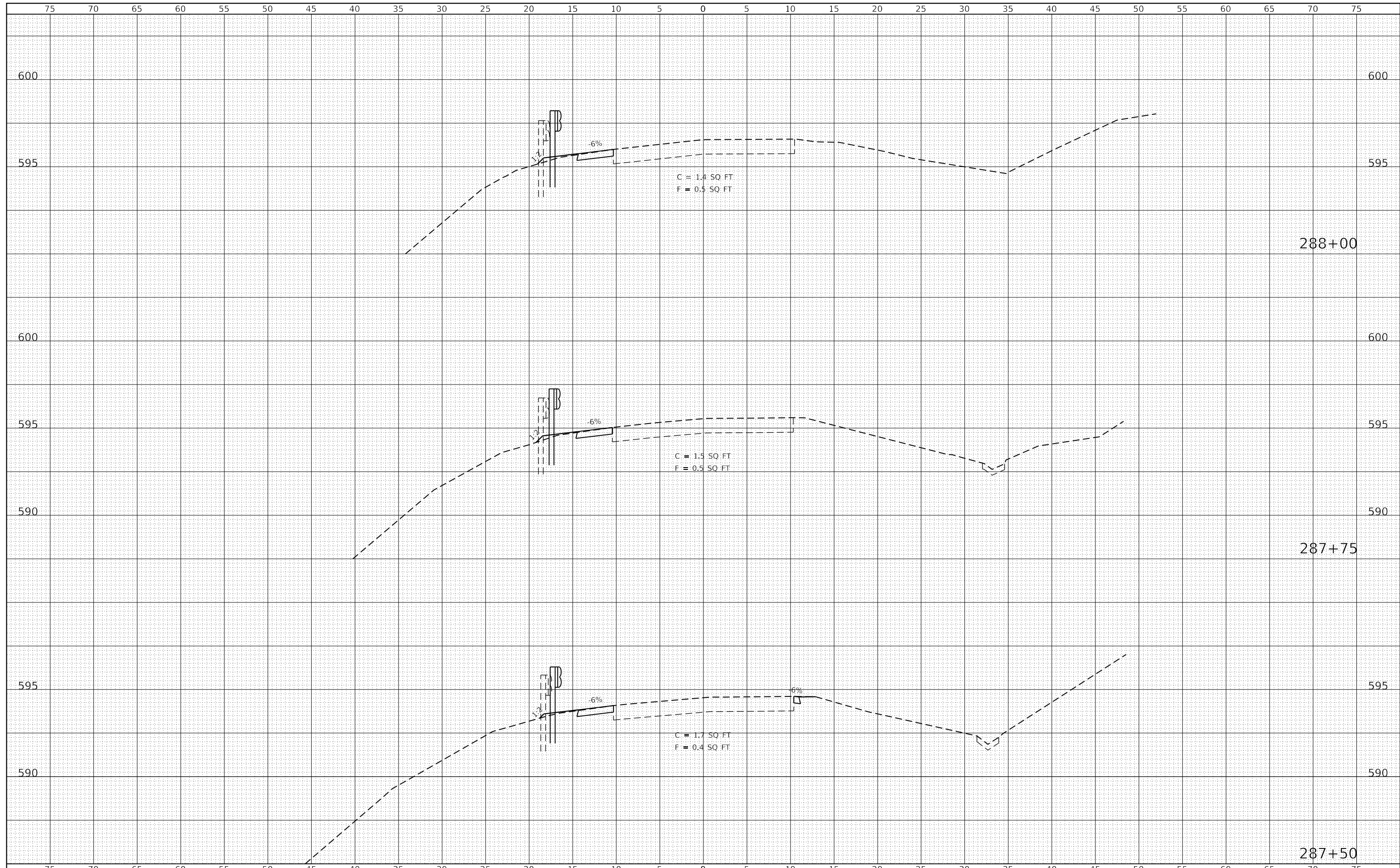
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FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET F.A.S. RTE. 433 (C.H. 19)</b>			FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets\Sh-X5.dgn		DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	31	<b>CONTRACT NO. 93764</b>		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 18 OF 22 SHEETS	STA. 287+00	TO STA. 287+25	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 4/15/2021	DATE -	REVISED -									

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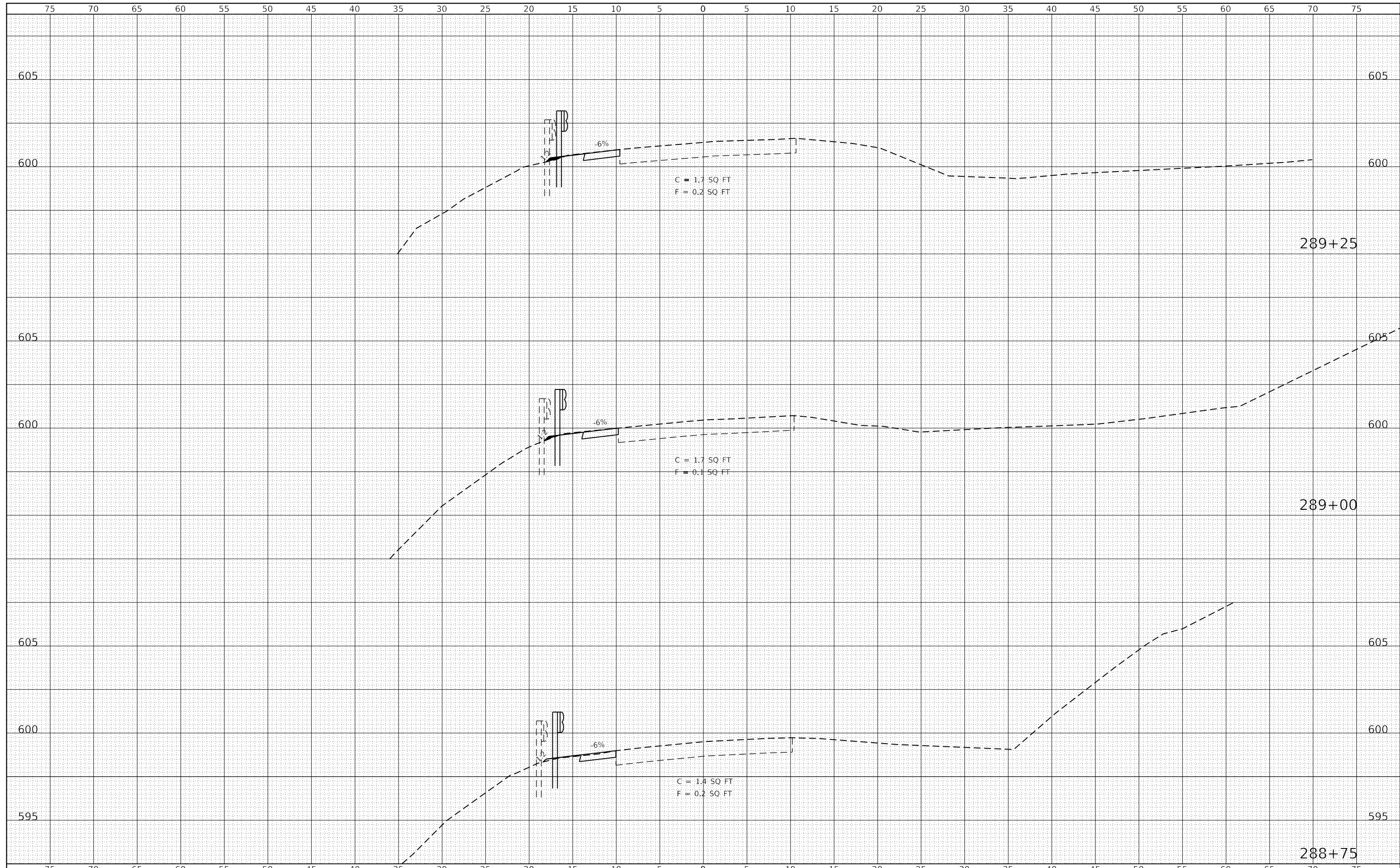
FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET F.A.S. RTE. 433 (C.H. 19)</b>			FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets\Sh-t-XS.dgn		DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	32	<b>CONTRACT NO. 93764</b>		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 19 OF 22 SHEETS	STA. 287+50	TO STA. 288+00	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 4/15/2021	DATE -	REVISED -									





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FILE NAME =	USER NAME = rjp	DESIGNED -	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b>	<b>CROSS SECTION SHEET F.A.S. RTE. 433 (C.H. 19)</b>			FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\20files\20018\18.Transportation\CADD Sheets\Sh-X5.dgn		DRAWN -	REVISED -		433	21-00139-00-BR	HANCOCK	35	34	<b>CONTRACT NO. 93764</b>		
Default		PLOT SCALE = 10.0000' / in.	REVISIED -		SCALE: $\frac{1"=50'}$	SHEET 21 OF 22 SHEETS	STA. 288+75	TO STA. 289+25	ILLINOIS FED. AID PROJECT			
		PLOT DATE = 4/15/2021	DATE -									



