

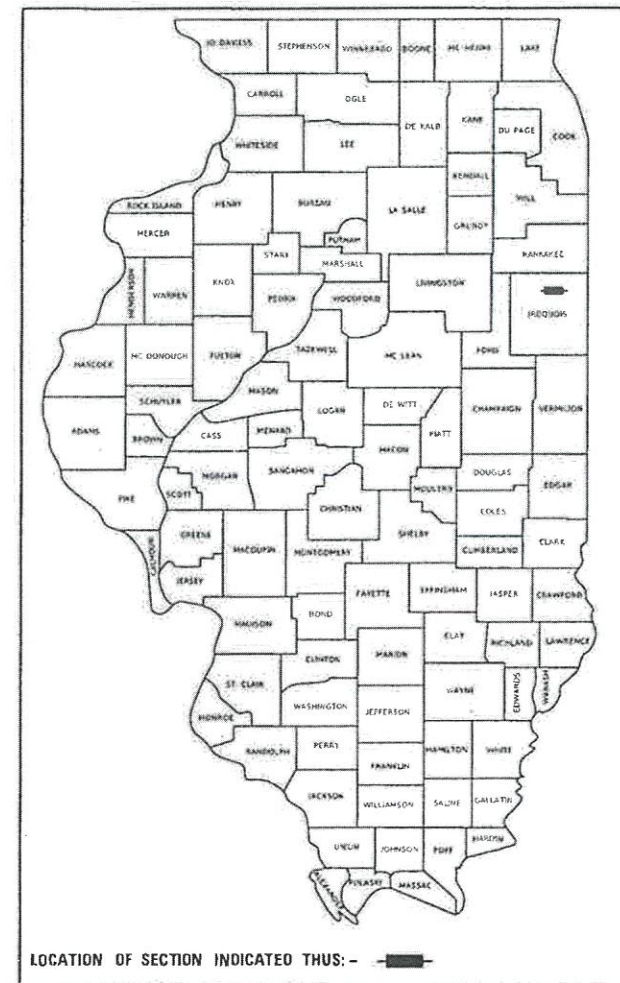
PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM-BRIDGE

SECTION 11-00047-01-BR F.A.S. 321 (C.H. 4) OVER PIKE CREEK

PROJECT NO. F3SF(323) JOB NUMBER C-93-014-20

Table with 2 columns: SHEET NO. and DESCRIPTION. Includes items like COVER SHEET, GENERAL NOTES, SUMMARY OF QUANTITIES, etc.

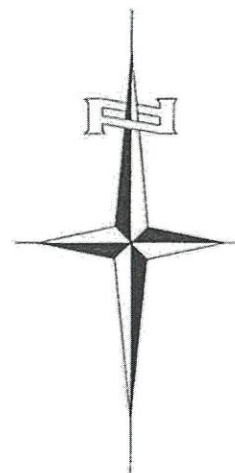
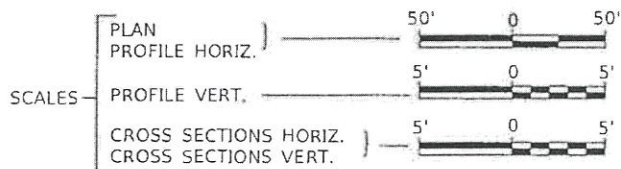
Table with 5 columns: F.A.S. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 321, 11-00047-01-BR, IROQUOIS, 27, 1.



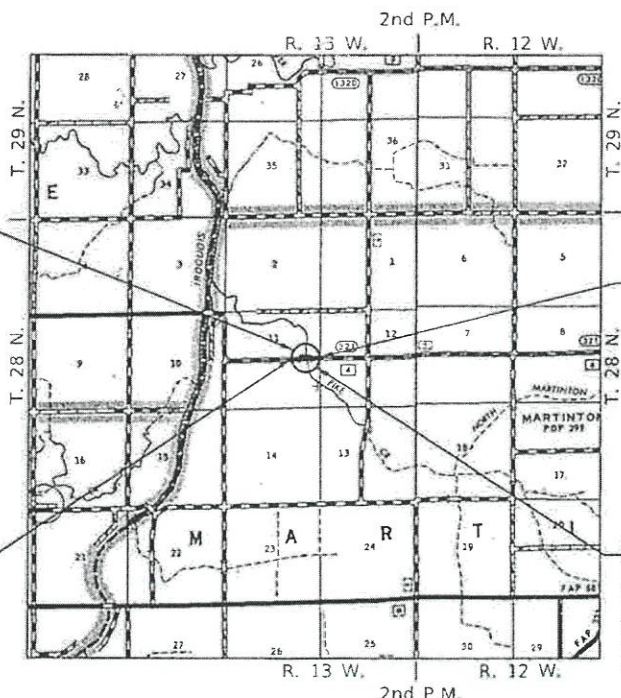
LOCATION OF SECTION INDICATED THUS: - [Symbol] - PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07 TEMPORARY EROSION CONTROL SYSTEMS
515001-04 NAME PLATE FOR BRIDGES
630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
701901-08 TRAFFIC CONTROL DEVICES
725001-01 OBJECT AND TERMINAL MARKERS
780001-05 TYPICAL PAVEMENT MARKINGS
BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 26-3 STEEL PLATE BEAM GUARDRAIL 29" (731mm) HEIGHT



PROPOSED STRUCTURE SN 038-4509 THREE SPAN 21" PPC DECK BEAM SUPERSTRUCTURE ON CONCRETE ENCASED PILE BENT PIERS AND CONCRETE SPILL-THRU PILE BENT ABUTMENTS, 131'-0" BK TO BK, 30'-0" O TO O DECK, NO SKEW.



SECTION 11-00047-01-BR ENDS STATION 22+25.00

SECTION 11-00047-01-BR BEGINS STATION 17+75.00

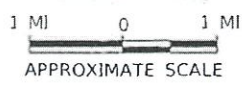
EXISTING STRUCTURE SN 038-4500 THREE SPAN PPC DECK BEAM SUPERSTRUCTURE ON REINFORCED CONCRETE PILE BENT ABUTMENTS AND PILE BENT PIERS WITH EXPOSED CONCRETE PILES, 121'-2" BK TO BK, 26'-0" O TO O DECK, NO SKEW. (TO BE REMOVED)

UTILITY COMPANIES

- EASTERN ILLINI ELECTRIC COOPERATIVE PAXTON, ILLINOIS
FRONTIER COMMUNICATIONS BLOOMINGTON, ILLINOIS

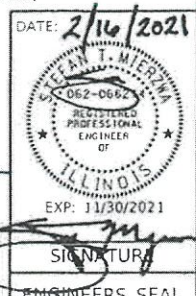
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

LOCATION MAP



NET LENGTH OF PROJECT = 450.00 FEET = 0.085 MILES
DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN ADT = 1,070 (2041)
DESIGN SPEED = 50 MPH

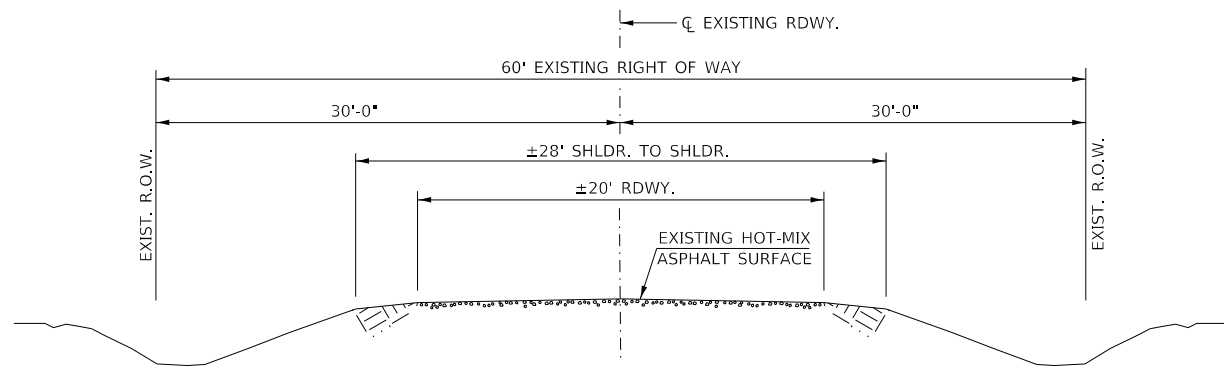
Hutchison Engineering, Inc. JACKSONVILLE-SHOREWOOD PEORIA-QUAD CITIES



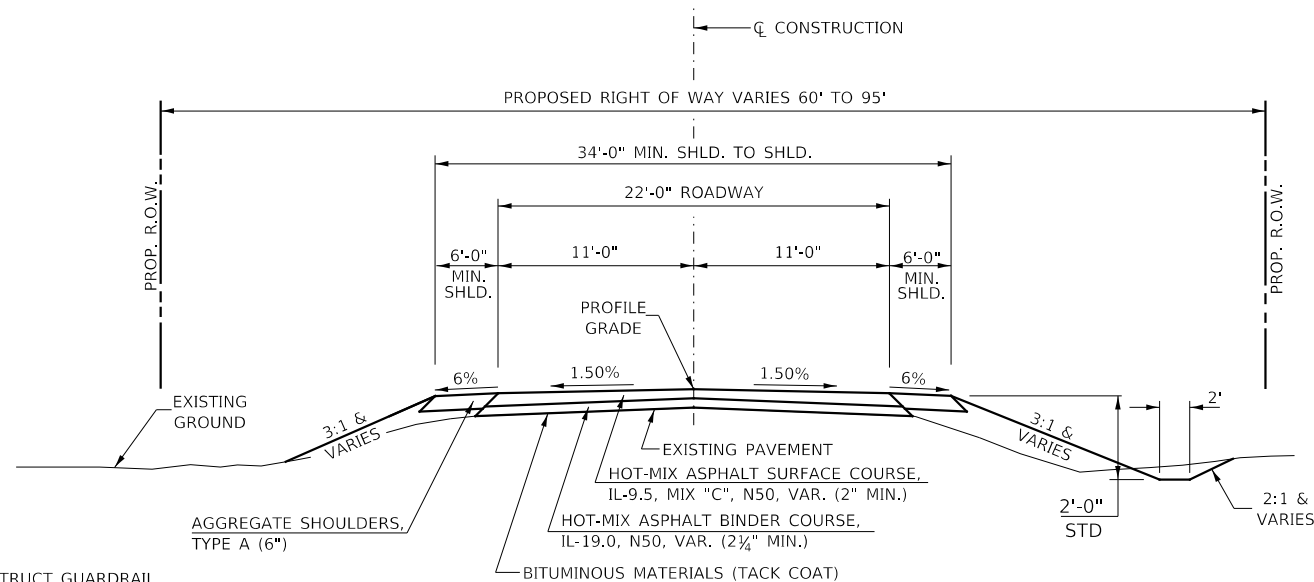
PLANS DESIGNED IN ACCORDANCE WITH BUREAU OF LOCAL ROADS AND STREETS MANUAL GUIDELINES FOR TWO LANE RURAL LOCAL ROADS - RECONSTRUCTION

Approval table with columns for APPROVED, PASSED, and Released For Bid Based on Limited Review, including dates and signatures.

CONTRACT NO. 87725



EXISTING TYPICAL SECTION

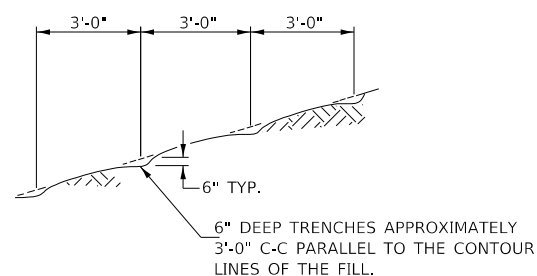


PROPOSED TYPICAL SECTION

STA. 17+75.00 TO STA. 19+34.50
STA. 20+65.50 TO STA. 22+25.00

EXCEPT TRANSITIONS

BRIDGE OMISSION
STA. 19+34.50 TO STA. 20+65.50



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL. COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING

COMMITMENTS

SEE SPECIAL PROVISIONS FOR IDNR CONSERVATIVE MITIGATION PLAN REQUIREMENTS.
SEE SPECIAL PROVISIONS FOR TREE REMOVAL RESTRICTIONS.

GENERAL NOTES

PLAN QUANTITIES FOR TREE REMOVAL HAVE BEEN BASED ON ALL TREES WITHIN THE PROPOSED RIGHT OF WAY. THIS QUANTITY MAY BE REVISED DURING CONSTRUCTION, AT THE DIRECTION OF THE ENGINEER, BY DELETING FROM THE TREE REMOVAL QUANTITIES, SUCH TREES THAT DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION.

ANY ADDITIONAL REMOVAL OF EXISTING HOT-MIX ASPHALT SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE NEW BRIDGE SHALL BE REMOVED AS STRUCTURE EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED OR ADJUSTED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

IF THE CONTRACTOR UTILIZES ORANGE TRAFFIC CONTROL SIGNS, THEY ARE REQUIRED TO BE FLUORESCENT ORANGE AND SHALL MEET RETRO REFLECTIVITY STANDARDS PER ARTICLE 1091.03 OF THE STANDARD SPECIFICATIONS.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

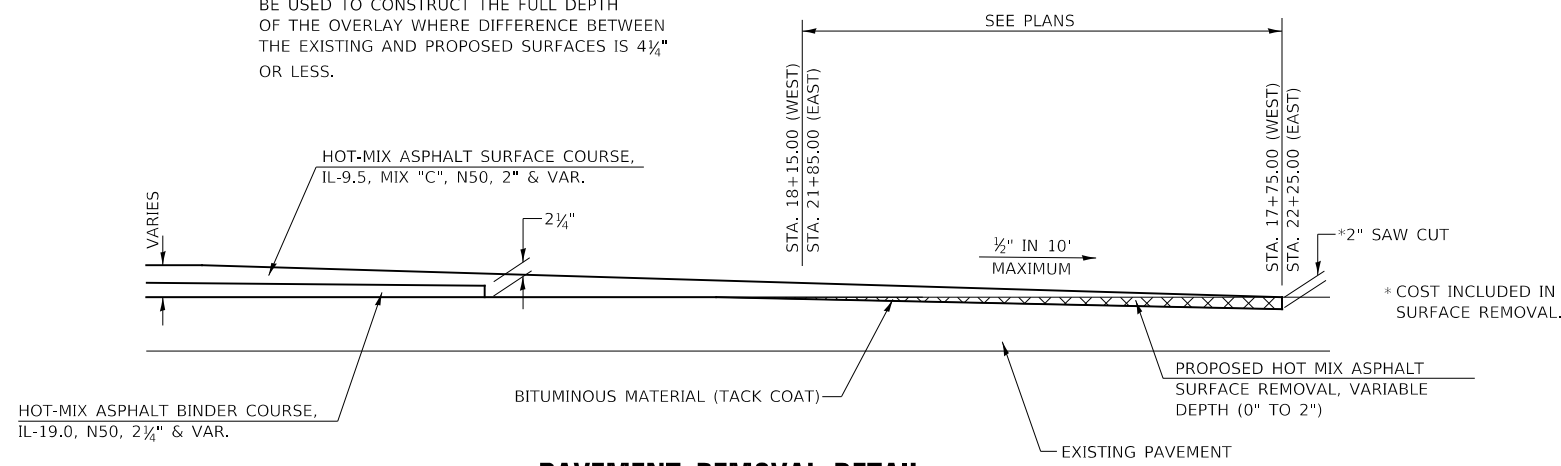
WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	HMA BINDER	HMA SURFACE
PG GRADE:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION:	IL-19.0	IL-9.5
FRICTION AGGREGATE:		MIXTURE C
DENSITY TEST METHOD:	CORES	CORES
MIXTURE WEIGHT:	112#/SQ YD/IN	112#/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT

- NOTES:
- HOT MIX ASPHALT SURFACE REMOVAL LIMITS/DEPTHS DETERMINED BY PROVIDING 2" BELOW PROPOSED PROFILE GRADE.
 - HOT-MIX ASPHALT SURFACE COURSE SHALL BE USED TO CONSTRUCT THE FULL DEPTH OF THE OVERLAY WHERE DIFFERENCE BETWEEN THE EXISTING AND PROPOSED SURFACES IS 4 1/4" OR LESS.



PAVEMENT REMOVAL DETAIL

MODEL: I:\MODELS\I11615\11615.dwg
FILE NAME: 11615.dwg - C1.4 over Pike Creek (I11615) (CADD) (CADD) Sheets\11615.dwg

USER NAME = SMierzwa	DESIGNED - MMO	REVISED -
PLOT SCALE = 2,000.0' / in.	DRAWN - MMO	REVISED -
PLOT DATE = 2/18/2021	CHECKED - STM	REVISED -
	DATE - 2/15/2021	REVISED -

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

**GENERAL NOTES, TYPICAL SECTIONS,
PAVEMENT DESIGN INFORMATION, DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 17+75.00 TO STA. 22+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	2
CONTRACT NO. 87725				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)	

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	168
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16
20200100	EARTH EXCAVATION	CU YD	165
20300100	CHANNEL EXCAVATION	CU YD	415
20400800	FURNISHED EXCAVATION	CU YD	930
28000305	TEMPORARY DITCH CHECKS	FOOT	48
28000400	PERIMETER EROSION BARRIER	FOOT	365
28100209	STONE RIPRAP, CLASS A5	TON	730
28200200	FILTER FABRIC	SQ YD	545
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,091
40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	37
40604050	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	TON	177
48100100	AGGREGATE SHOULDERS, TYPE A	TON	174
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	89
50200100	STRUCTURE EXCAVATION	CU YD	70
50200300	COFFERDAM EXCAVATION	CU YD	115
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	116.8
50300280	CONCRETE ENCASEMENT	CU YD	3.5
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3,870
50800105	REINFORCEMENT BARS	POUND	9,610
50901050	STEEL RAILING, TYPE SM	FOOT	262
51201400	FURNISHING STEEL PILES HP10x42	FOOT	900
51202305	DRIVING PILES	FOOT	900
51203400	TEST PILE STEEL HP10x42	EACH	4
51204650	PILE SHOES	EACH	24
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	437
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	290
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	18.6
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,015
X1200247	TURBIDITY CURTAIN	SQ YD	55
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	188
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	319

SEE SPECIAL PROVISIONS
 CONSTRUCTION CODE TYPE: 0010
 BRIDGE CODE TYPE: X080

SPECIALTY ITEMS

TREE REMOVAL				
STATION	OFFSET	SIDE	6 TO 15 UNITS	OVER 15 UNITS
19+53	34'	LEFT	8	
19+53	35'	LEFT	9	
19+59	36'	LEFT	12	
19+59	39'	LEFT	11	
19+59	44'	LEFT	11	
19+75	43'	LEFT		16
19+77	36'	LEFT	15	
19+78	45'	LEFT	6	
19+80	36'	LEFT	11	
19+82	36'	LEFT	12	
20+43	38'	LEFT	6	
20+43	38'	LEFT	10	
20+43	37'	LEFT	7	
20+54	38'	LEFT	6	
20+73	33'	LEFT	8	
20+77	34'	LEFT	6	
20+77	34'	LEFT	6	
20+77	34'	LEFT	6	
21+22	31'	LEFT	7	
21+79	38'	LEFT	11	
TOTAL			168	16

TEMPORARY DITCH CHECKS		
STATION	SIDE	FOOT
18+65	RIGHT	12
19+55	RIGHT	12
20+48	RIGHT	12
21+25	RIGHT	12
TOTAL		48

PERIMETER EROSION BARRIER			
STATION TO STATION	SIDE	FOOT	
17+75.00	19+34.50	LEFT	185
20+65.50	22+25.00	LEFT	180
TOTAL			365

PIPE CULVERT REMOVAL			
STATION	SIZE	SIDE	FOOT
19+44	24"	RIGHT	40
20+63	24"	RIGHT	49
TOTAL			89

TURBIDITY CURTAIN		
LOCATION	LENGTH	SQ YD
CHANNEL	45.00'	15
COFFERDAM	120.00'	40
TOTAL		55

EARTHWORK SUMMARY						
STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	COFFERDAM EXCAVATION	FILL	WASTE (SHORTAGE)
RDWY 17+75.00 - 19+34.50	96				556	(484)
RDWY 20+65.50 - 22+25.00	71				501	(448)
CHANNEL		415				
STRUCTURE			70			
COFFERDAM				115		
TOTAL	167	415	70	115	1,057	(932)
USE	165	415	70	115	-	(930)

(@ 25% SHRINKAGE)

PAVEMENT SCHEDULE							
STATION TO STATION	WIDTH	LENGTH	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER CSE	HOT-MIX ASPHALT SURFACE CSE	LONGITUDINAL JOINT SEALANT
			0.05LBS/SQ FT	0.25LBS/SQ FT	112#/SQ YD/IN	112#/SQ YD/IN	
17+75.00	18+25.00	22.01' AVG.	50.00'				
18+25.00	19+34.50	23.12' AVG.	109.50'				
BRIDGE DECK		30.00'	131.00'				
20+65.50	21+75.00	23.35' AVG.	109.50'				
21+75.00	22+25.00	22.19' AVG.	50.00'				
20+65.50	21+60.00	22.34' AVG.	94.50'				
20+65.50	21+60.00	22.57' AVG.	94.50'	528			
17+75.00	18+25.00	21.55' AVG.	50.00'			18	50
18+25.00	19+34.50	22.55' AVG.	109.50'			55	109.5
BRIDGE DECK		30.00'	131.00'			47	
20+65.50	21+75.00	22.25' AVG.	109.50'			37	109.5
21+75.00	22+25.00	21.70' AVG.	50.00'			20	50
TOTAL			563	528	37	177	319

TO BE APPLIED TO THE EXISTING PAVEMENT SURFACE AND/OR BINDER COURSE JOINT AS SCHEDULED AND SHOWN ON THE PLANS AND AT THE DISCRETION OF THE ENGINEER.

TRAFFIC BARRIER TERMINAL, TYPE 6A			
STATION TO STATION	SIDE	EACH	
18+97.00	19+34.50	LT	1
18+97.00	19+34.50	RT	1
20+65.50	21+03.00	LT	1
20+65.50	21+03.00	RT	1
TOTAL			4

AGGREGATE SHOULDERS, TYPE A 140#/CF					
STATION TO STATION	SIDE	WIDTH	LENGTH	TON	
17+75.00	18+37.00	LT	6.73' AVG.	62.00'	15
17+75.00	18+37.00	RT	6.31' AVG.	62.00'	14
18+37.00	18+72.00	LT	9.00'	35.00'	11
18+37.00	18+72.00	RT	9.00'	35.00'	11
18+72.00	19+12.00	LT	8.88' AVG.	40.00'	12
18+72.00	19+12.00	RT	8.88' AVG.	40.00'	12
19+12.00	19+34.50	LT	6.88' AVG.	22.50'	6
19+12.00	19+34.50	RT	6.88' AVG.	22.50'	6
20+65.50	20+88.00	LT	6.88' AVG.	22.50'	6
20+65.50	20+88.00	RT	6.88' AVG.	22.50'	6
20+88.00	21+28.00	LT	8.88' AVG.	40.00'	12
20+88.00	21+28.00	RT	8.88' AVG.	40.00'	12
21+28.00	21+63.00	LT	9.00'	35.00'	11
21+28.00	21+63.00	RT	9.00'	35.00'	11
21+63.00	22+25.00	LT	6.87' AVG.	62.00'	15
21+63.00	22+25.00	RT	6.56' AVG.	62.00'	14
TOTAL					174

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT			
STATION TO STATION	SIDE	EACH	
18+47.00	18+97.00	LT	1
18+47.00	18+97.00	RT	1
21+03.00	21+53.00	LT	1
21+03.00	21+53.00	RT	1
TOTAL			4

PAINT PAVEMENT MARKING - LINE 4"			
STATION TO STATION	SIDE	DESCRIPTION	FOOT
17+75.00	22+25.00	LEFT WHITE SOLID	450
17+75.00	22+25.00	CENTER YELLOW SKIP DASH	115
17+75.00	22+25.00	RIGHT WHITE SOLID	450
TOTAL			1,015

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH				
STATION TO STATION	WIDTH	LENGTH	SQ YD	
17+75.00	18+15.00	21.03' AVG.	40.00'	94
21+85.00	22+25.00	21.11' AVG.	40.00'	94
TOTAL				188

USFR: SMURFITMMP4
 TITLE: IROQUOIS COUNTY HIGHWAY 4 OVER PIKE CREEK
 DATE: 2/15/2021

USFR NAME	SMurzewa	DESIGNED	MMO	REVISED	-
PLOT SCALE	1/25,000' = 1" = 100'	DRAWN	MMO	REVISED	-
PLOT DATE	2/15/2021	CHECKED	STM	REVISED	-
		DATE	2/15/2021	REVISED	-

**IROQUOIS COUNTY
 COUNTY HIGHWAY 4
 OVER PIKE CREEK**

SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES				F.A.S. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA. 17+75.00	TO STA. 22+25.00	IROQUOIS	27	3
						FED. ROAD DIST. NO. 7 (ILLINOIS)	CONTRACT NO. 87725	
						FED. AID PROJECT NO. F35F3231		

MODEL: I:\MODELS\MHMF
 FILE NAME: 022121 - C1-4 over Pike Creek (Iroquois) CADDD\CADD Sheets\45110001.dgn



- 1 ROAD CLOSED
3/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 2 ROAD CLOSED
2 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 3 ROAD CLOSED
3 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 4 ROAD CLOSED
4 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 5 ROAD CLOSED AHEAD
W20-3
- 6 ROAD CLOSED
500 FT
W20-3
- 7 TYPE III BARRICADES
SEE STANDARD BLR 21
AND SPECIAL PROVISIONS

USER NAME = SMierzwa	DESIGNED - MMO	REVISED -
DRAWN - MMO	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED - STM	REVISED -
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED -

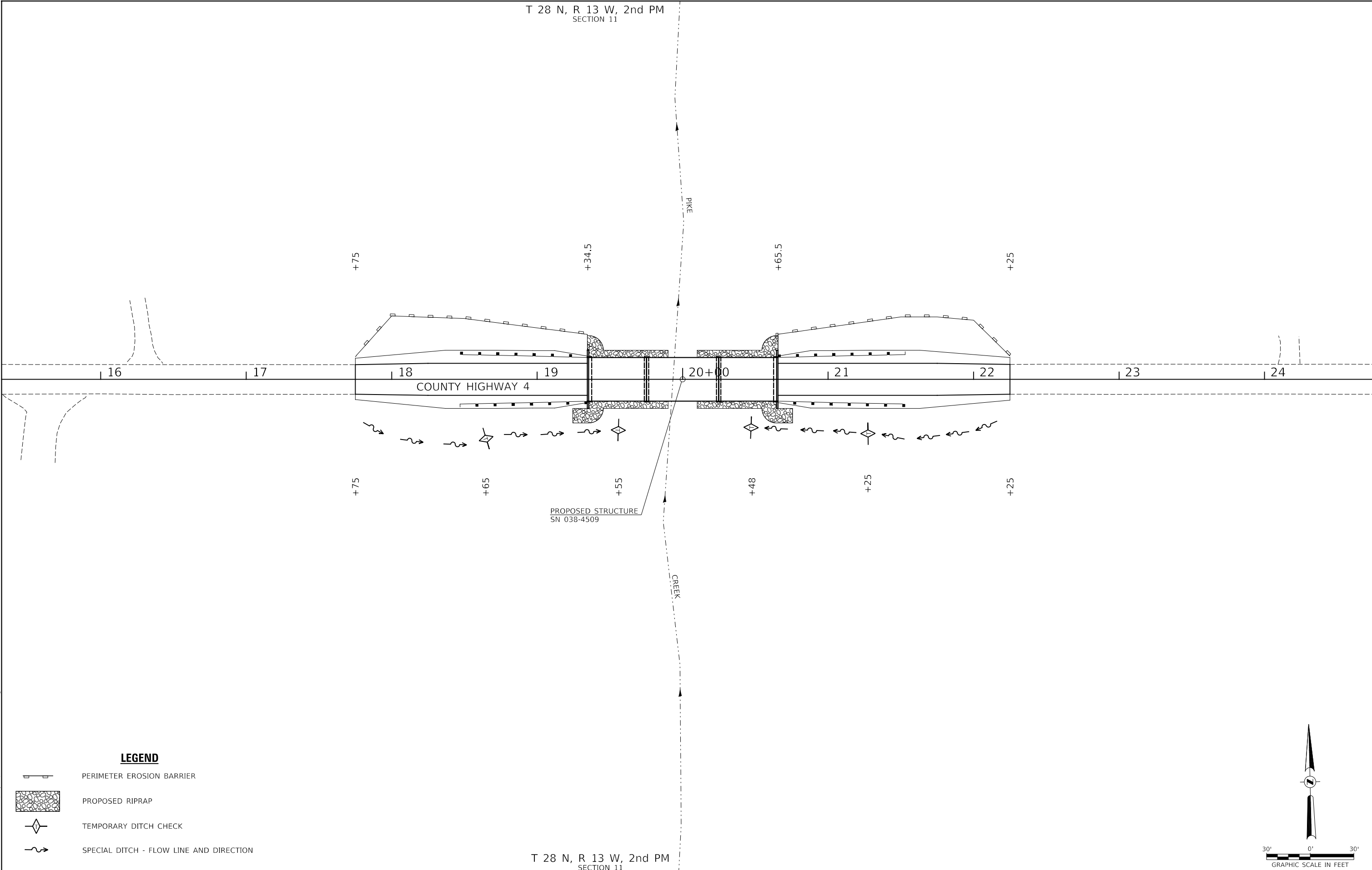
**IROQUOIS COUNTY
 COUNTY HIGHWAY 4
 OVER PIKE CREEK**

TRAFFIC CONTROL PLAN

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 17+75.00 TO STA. 22+25.00





F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	4
CONTRACT NO. 87725				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)	

T 28 N, R 13 W, 2nd PM
SECTION 11

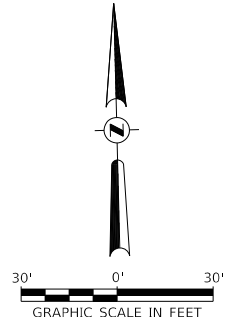


PROPOSED STRUCTURE
SN 038-4509

LEGEND

-  PERIMETER EROSION BARRIER
-  PROPOSED RIPRAP
-  TEMPORARY DITCH CHECK
-  SPECIAL DITCH - FLOW LINE AND DIRECTION

T 28 N, R 13 W, 2nd PM
SECTION 11



MODEL: s:\MODELS\MMEs
 FILE NAME: 11-00047-01-01-01.ctb
 PROJECT: 11-00047-01-01-01.ctb
 SHEET: 11-00047-01-01-01.ctb

USER NAME = SMierzwa	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 60,0000 ' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

EROSION CONTROL PLAN

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. 17+75.00 TO STA. 22+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	5
CONTRACT NO. 87725				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. F35F(323)		

T 28 N, R 13 W, 2nd PM
SECTION 11

ARTHUR & SANDRA BALTHAZOR, TRUSTEES

ARTHUR & SANDRA BALTHAZOR, TRUSTEES

PASTURE

TIMBER

PASTURE

CULTIVATED

ALEXANDER M. STIRLING

WAMBLE MOUNTAIN FARMS, LLC





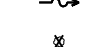
T 28 N, R 13 W, 2nd PM
SECTION 11

☒ SURVEY & ☒ CONSTRUCTION

SECTION 11-00047-01-BR
BEGINS
STATION 17+75.00

SECTION 11-00047-01-BR
ENDS
STATION 22+25.00

LEGEND

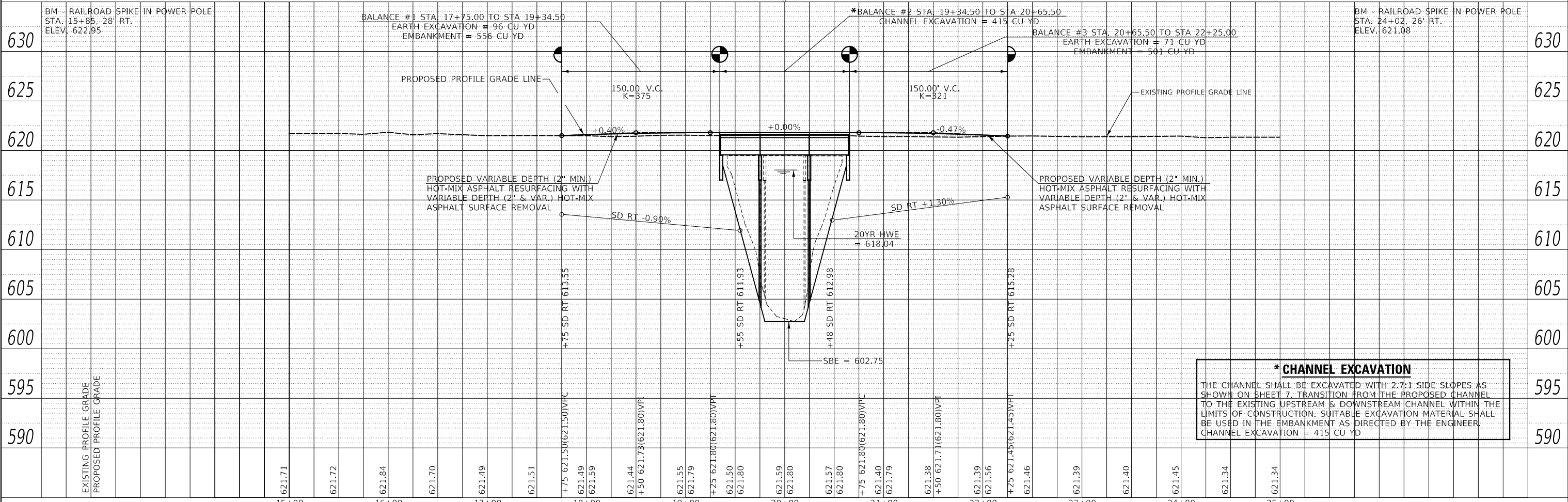
-  PROPOSED HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
-  TRANSITION TO OR FROM EXISTING TO PROPOSED TYPICAL PAVEMENT
-  PROPOSED RIPRAP PLACEMENT
-  SPECIAL DITCH WITH FLOW DIRECTION
-  PROPOSED TREE REMOVAL

- ① PROPOSED TRAFFIC BARRIER TERMINALS, TYPE 6A AND TYPE 1 (SPECIAL) TANGENT
- ② FIELD ENTRANCES TO BE REMOVED AND ABANDONED.



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO. _____	
	CADD FILE NAME	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO. _____	
	STRUCTURE NOTATIONS	
	NO. _____	



*** CHANNEL EXCAVATION**
THE CHANNEL SHALL BE EXCAVATED WITH 2.7:1 SIDE SLOPES AS SHOWN ON SHEET 7. TRANSITION FROM THE PROPOSED CHANNEL TO THE EXISTING UPSTREAM & DOWNSTREAM CHANNEL WITHIN THE LIMITS OF CONSTRUCTION. SUITABLE EXCAVATION MATERIAL SHALL BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.
CHANNEL EXCAVATION = 415 CU YD

MODEL: SPODELNAME
FILE NAME: W35311 - Ch 4 over Pike Creek (Iroquois) (CADD) (CADD Sheets) (43 14600).dgn

USER NAME = SMierzwa	DESIGNED - BAN	REVISED -
	DRAWN - MMO	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - STM	REVISED -
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED -

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. 17+75.00 TO STA. 22+25.00
---------------	-------------------------	--------------------------------

F.A.S. RTE. 321	SECTION 11-00047-01-BR	COUNTY IROQUOIS	TOTAL SHEETS 27	SHEET NO. 6
CONTRACT NO. 87725			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT NO. F35F(323)				

B.M.: RR Spike in Power Pole
Sta. 15+BS, 28' RT.
Elev. 622.95

RR Spike in Power Pole
Sta. 24+02, 26' RT.
Elev. 621.0B

Existing Structure:

Three span precast prestressed concrete deck beam superstructure on reinforced concrete pile bent abutments and pile bent piers with exposed concrete piles. The structure is 121'-2" back to back of abutments, 26'-0" out to out of deck, and is not skewed. Str. No. 03B-4500

Salvage: None

Road to be closed to traffic during construction.

PIKE CREEK
BUILT 202 BY
IROQUOIS COUNTY
SEC. 11-00047-01-BR
C.H. 4 STATION 20+00.00
F.A. PROJ. NO. F35F(323)
STR. NO. 03B-4509 LOADING HL-93

NAME PLATE

Locate Name Plate at S.W. Wingwall Corner of Bridge (See Std. S15001)

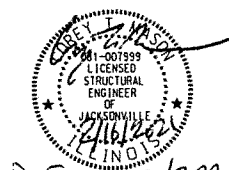
GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
For Soil Boring Logs, See Sheets No. 11 thru 13.
A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(10) and 1021.07 of the Standard Specifications.
Reinforcement Bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD		415	415
Stone Riprap, Class A5	TON		730	730
Filter Fabric	SO YD		545	545
Hot-Mix Asphalt Surface Course, 1L-9.5, Mix "C", NSO	TON	47		47
Removal of Existing Structures	EACH			1
Structure Excavation	CU YD		70	70
Cofferdam Excavation	CU YD		115	115
Cofferdam (Type 1) (Location-1)	EACH		1	1
Cofferdam (Type 1) (Location-2)	EACH		1	1
Concrete Structures	CU YD		116.8	116.8
Concrete Encasement	CU YD		3.5	3.5
Precast Prestressed Concrete Deck Beams (21" Depth)	SO FT	3,870		3,870
Reinforcement Bars	POUND		9,610	9,610
Steel Railing, Type SM	FOOT	262		262
Furnishing Steel Piles HP10x42	FOOT		900	900
Driving Piles	FOOT		900	900
Test Pile Steel HP10x42	EACH		4	4
Name Plates	EACH		1	1
Piles Shoes	EACH		24	24
Waterproofing Membrane System	SO YD	437		437
Portland Cement Mortar Fairing Course	FOOT	290		290
Controlled Low-Strength Material	CU YD		18.6	18.6

① See Special Provisions

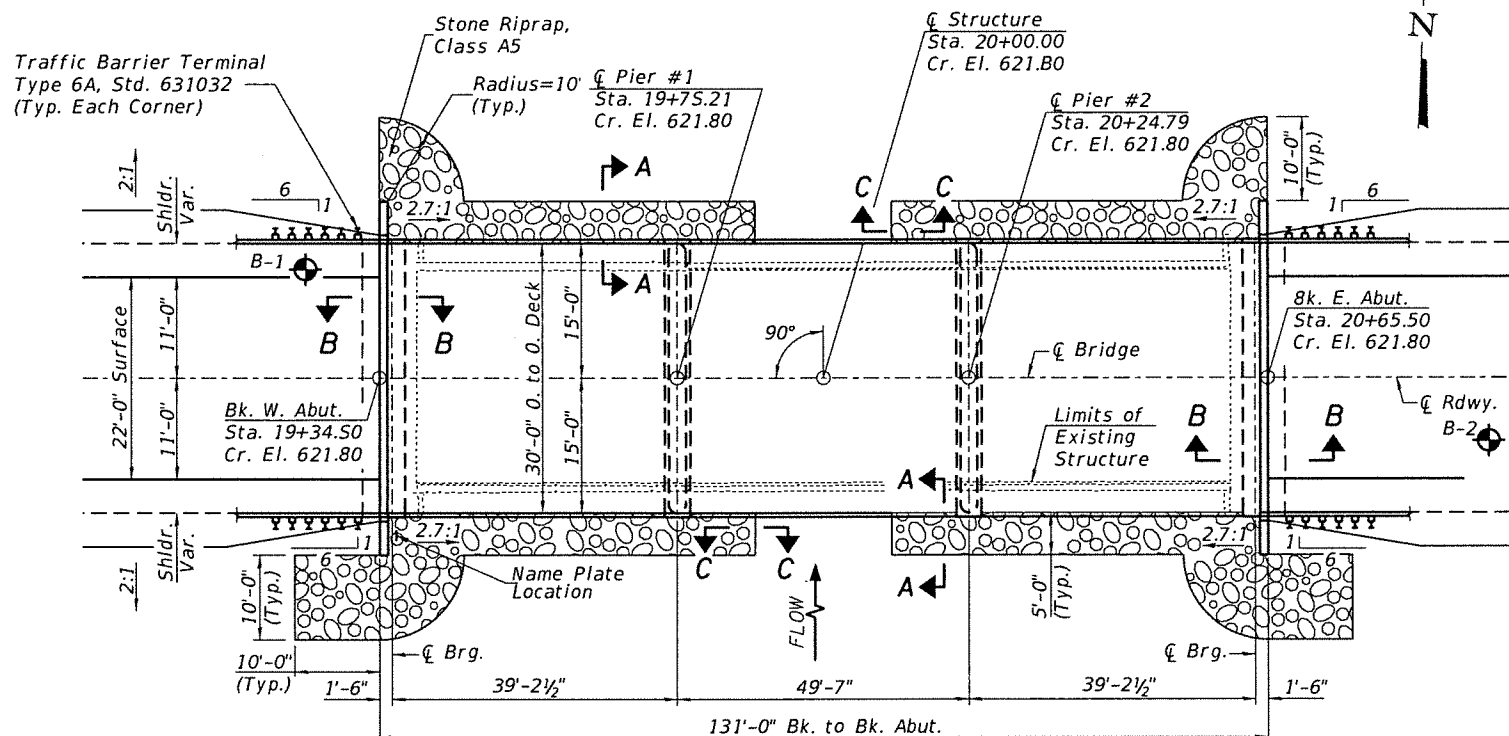
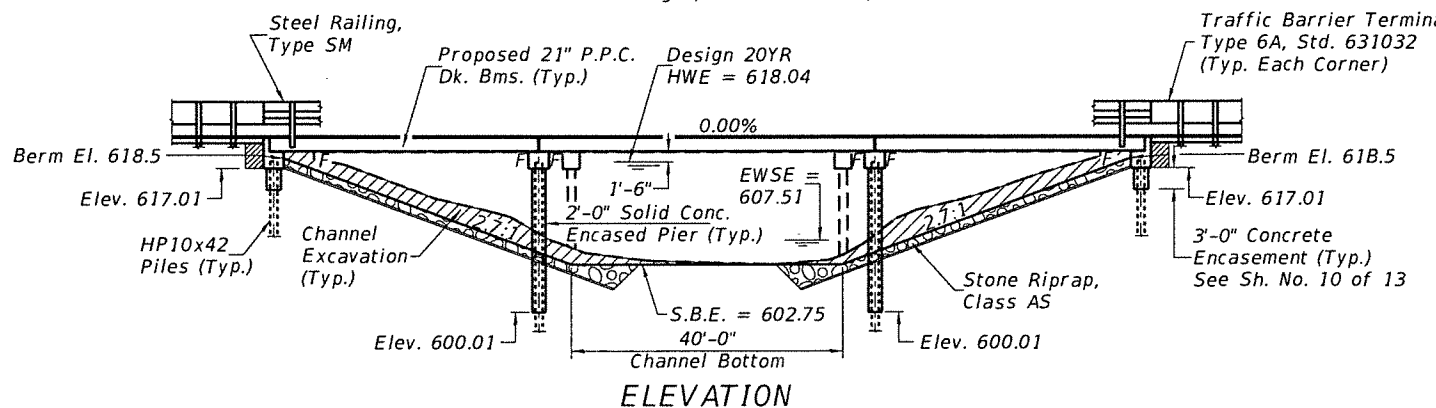


I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

[Signature]
Illinois Structural No. 7999
Expires 11/30/2022

GENERAL PLAN & ELEVATION
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 1 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	7
S.N. 03B-4509			CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



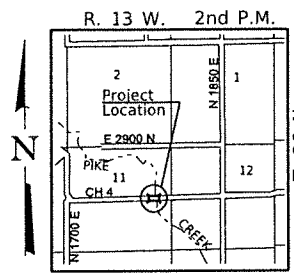
DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

(FIELD UNITS) (PRECAST PRESTRESSED UNITS)
f'c = 3,500 p.s.i. f'c = 6,000 p.s.i.
fy = 60,000 p.s.i. (Rein.) f'ci = 5,000 p.s.i.
f's = 270,000 p.s.i. (1/2" Strands)
f'si = 201,960 p.s.i. (1/2" Strands)

LOADING HL-93

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



DESIGN SCOUR ELEVATION TABLE

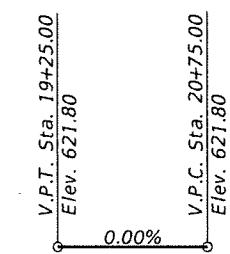
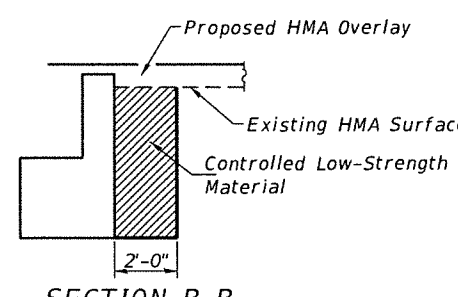
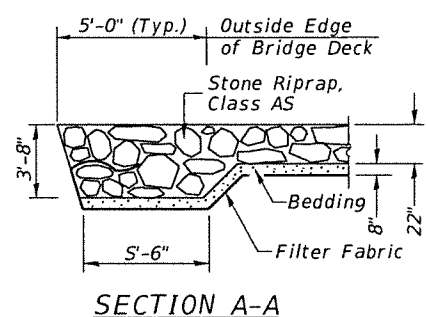
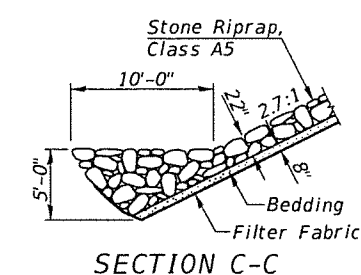
Item 113	Design Scour Elevations (ft.)			
	W. Abut.	Pier #1	Pier #2	E. Abut.
0100	617.0	600.4	600.4	617.0
0200	617.0	600.2	600.2	617.0
Design	617.0	600.4	600.4	617.0
Check	617.0	600.2	600.2	617.0

WATERWAY INFORMATION

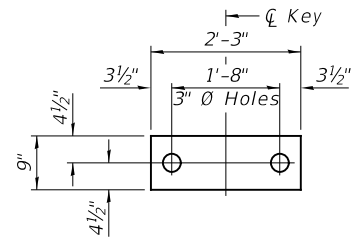
Drainage Area = 69.56 Sq. Mi. Low Grade Elev. = 621.34 @ Sta. 24+50.00

Flood Yr.	0	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Design	20	2,890	972	1,210	618.04	0.26	0.13	618.30	618.17
Base	100	4,190	1,129	1,393	620.71	0.27	0.16	620.98	620.87

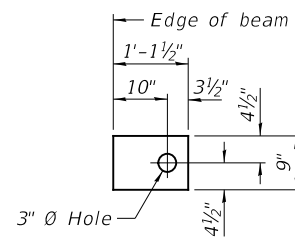
Construction of this project complies with IDNR, Office of Water Resources Statewide Permit No. 2



DESIGNED	Z.L./M.M.O.
CHECKED	S.T.M.
DRAWN	M.M.O.
CHECKED	S.T.M./C.T.M.

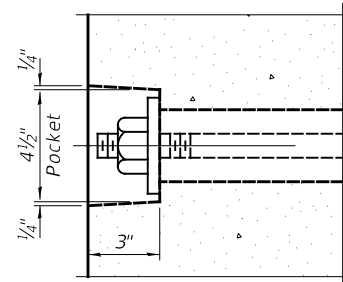


1/2" FABRIC BEARING PAD
(Interior) 36 Required

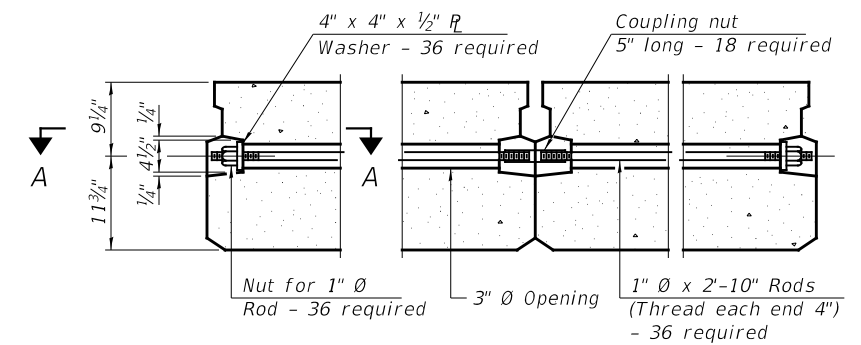


1/2" FABRIC BEARING PAD
(Exterior) 8 Required

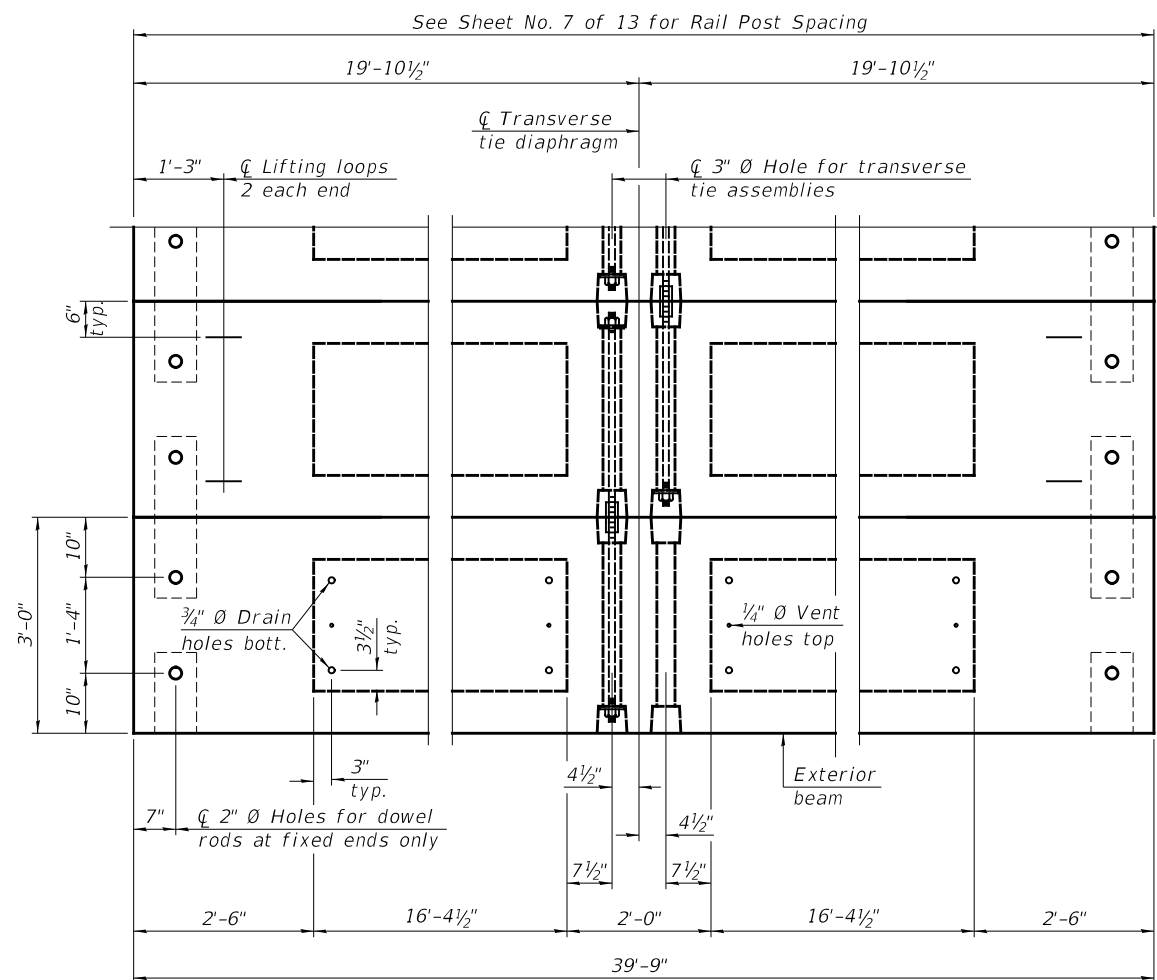
FIXED



SECTION A-A

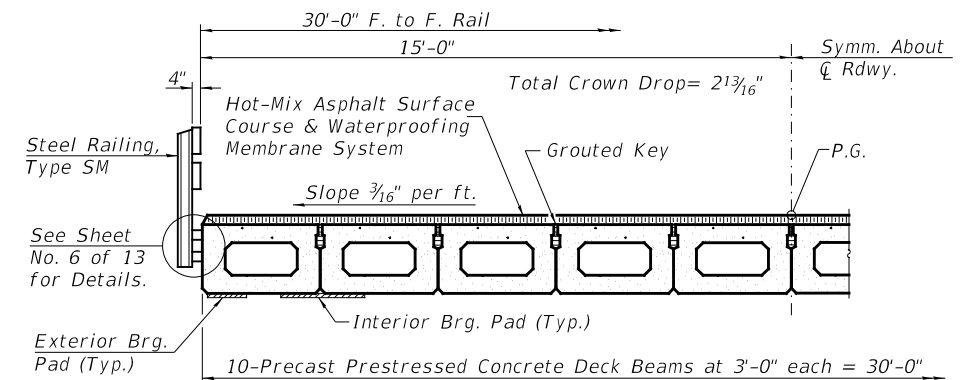


TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

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



HALF CROSS SECTION

BILL OF MATERIAL

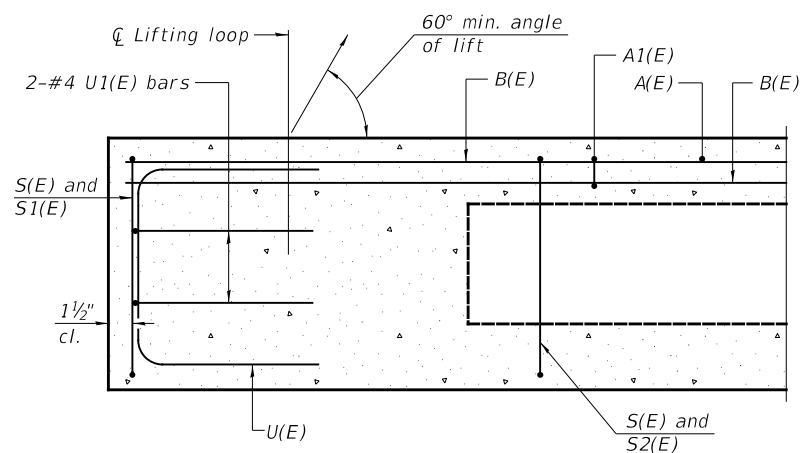
ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	2,385

NOTES

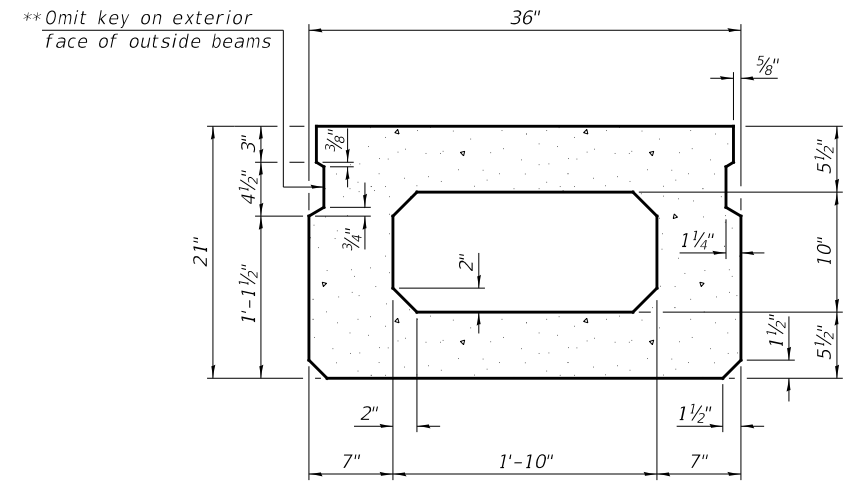
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE - SPANS 1 & 3
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

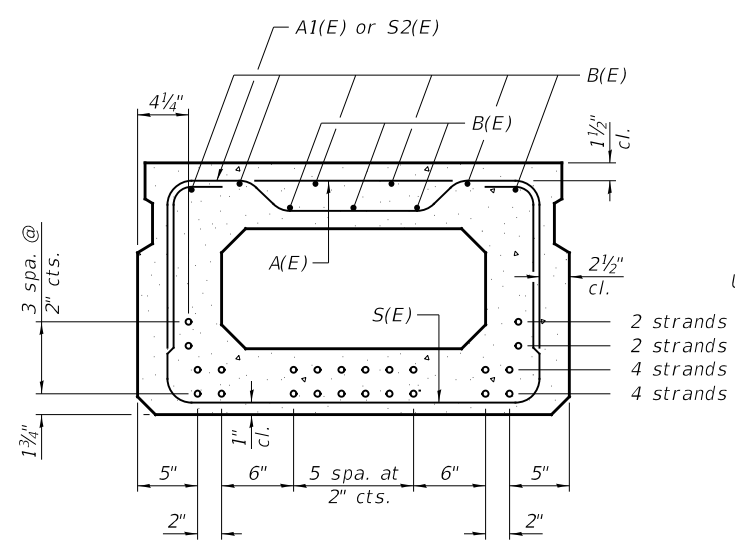
SHEET NO. 2 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	8
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



SECTION A-A

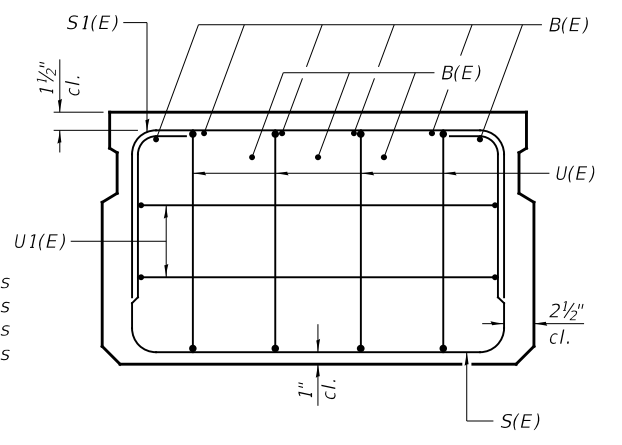


SECTION B-B
(Showing dimensions)



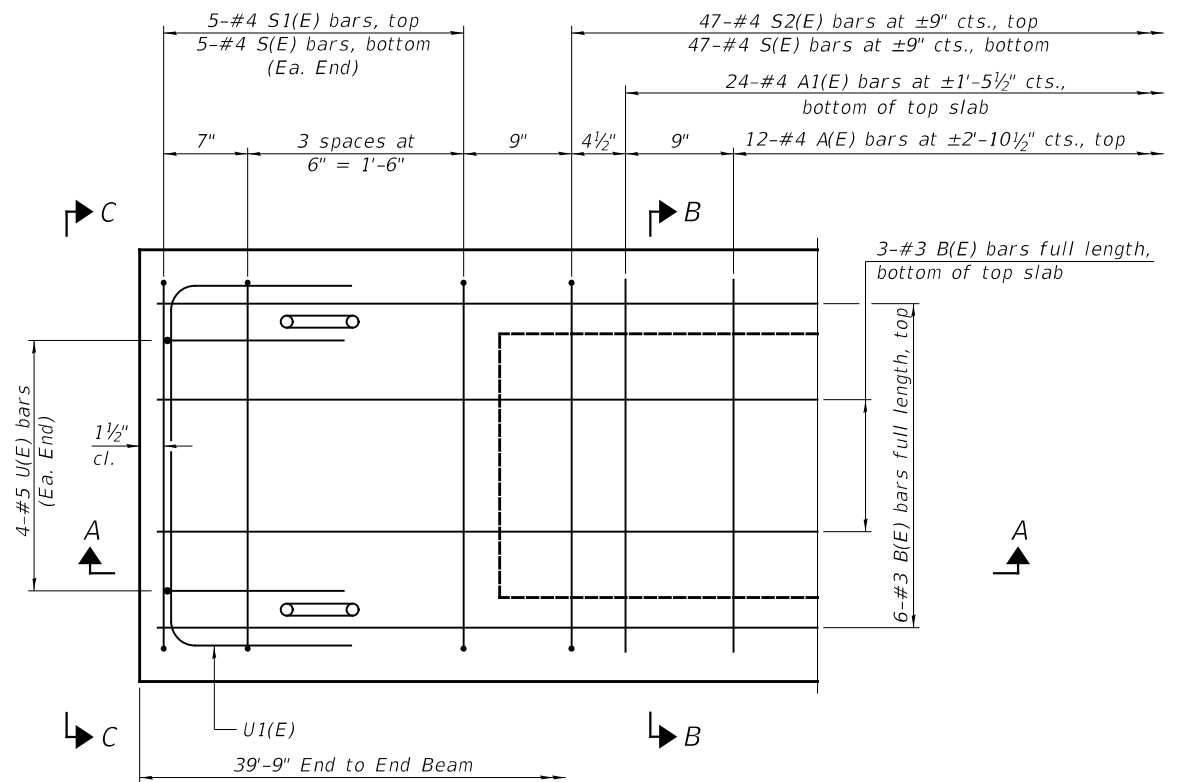
SECTION B-B

12-1/2"Ø Strands Each Strand Stressed to 30,900 Lbs.
 4-Strands 1 3/4" up, 4-Strands 3 3/4" up,
 2-Strands 5 3/4" up, 2-Strands 7 3/4" up
 Note: Place the number of strands specified in each row
 symmetrically about the centerline of beam in the
 permissible strand locations shown.

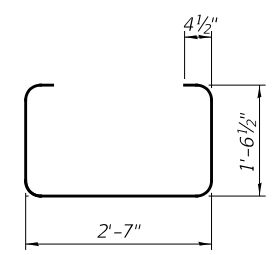


VIEW C-C

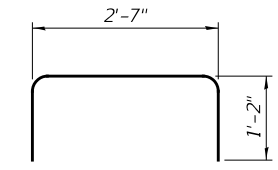
**Rail post anchor devices (Sheet No. 6 of 13)
 to be cast into exterior face of outside beams.



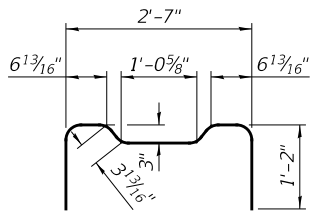
PLAN VIEW



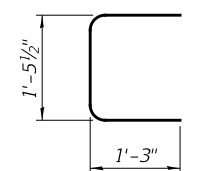
BAR S(E)



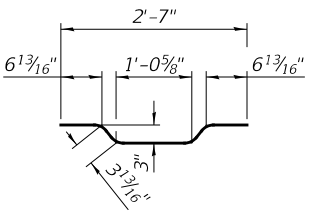
BAR S1(E)



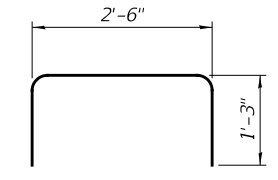
BAR S2(E)



BAR U(E)



BAR A1(E)



BAR U1(E)

BAR LIST
ONE BEAM ONLY
 (For information only)

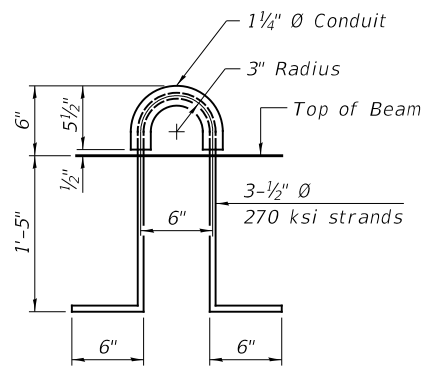
BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	12	#4	2'-7"	—
A1(E)	24	#4	2'-10"	~
B(E)	9	#3	*39'-6"	—
S(E)	57	#4	6'-5"	⌋
S1(E)	10	#4	4'-11"	⌋
S2(E)	47	#4	5'-2"	⌋
U(E)	8	#5	4'-0"	⌋
U1(E)	4	#4	5'-0"	⌋

Note:
 See Sheet No. 2 of 13 for additional
 details and Bill of Material.

*Total length, lap as necessary.

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

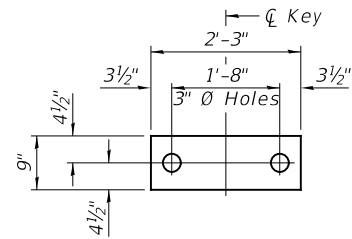
Note: Spacing of S(E) and S2(E) bars may be adjusted
 up to 4" in the immediate area of the transverse
 tie diaphragms to miss the block outs for the
 transverse ties.



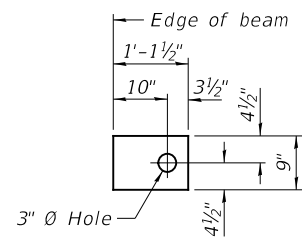
LIFTING LOOP DETAIL

SUPERSTRUCTURE DETAILS - SPANS 1 & 3
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 3 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	9
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

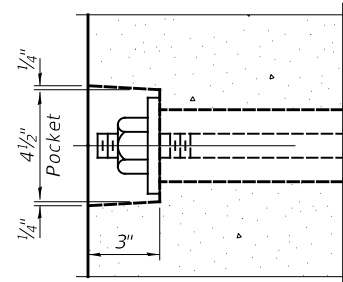


1/2" FABRIC BEARING PAD
(Interior) 18 Required

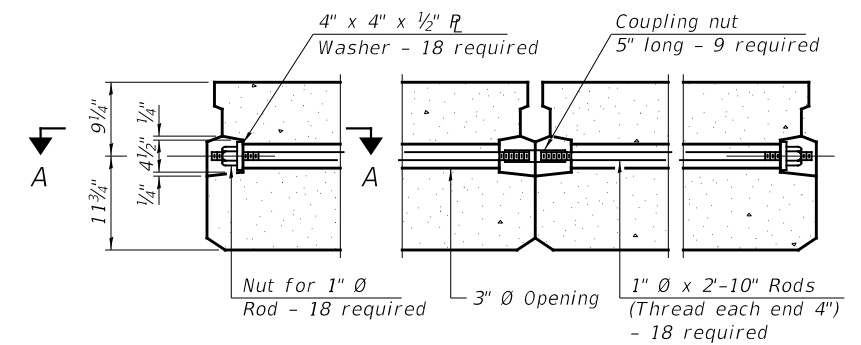


1/2" FABRIC BEARING PAD
(Exterior) 4 Required

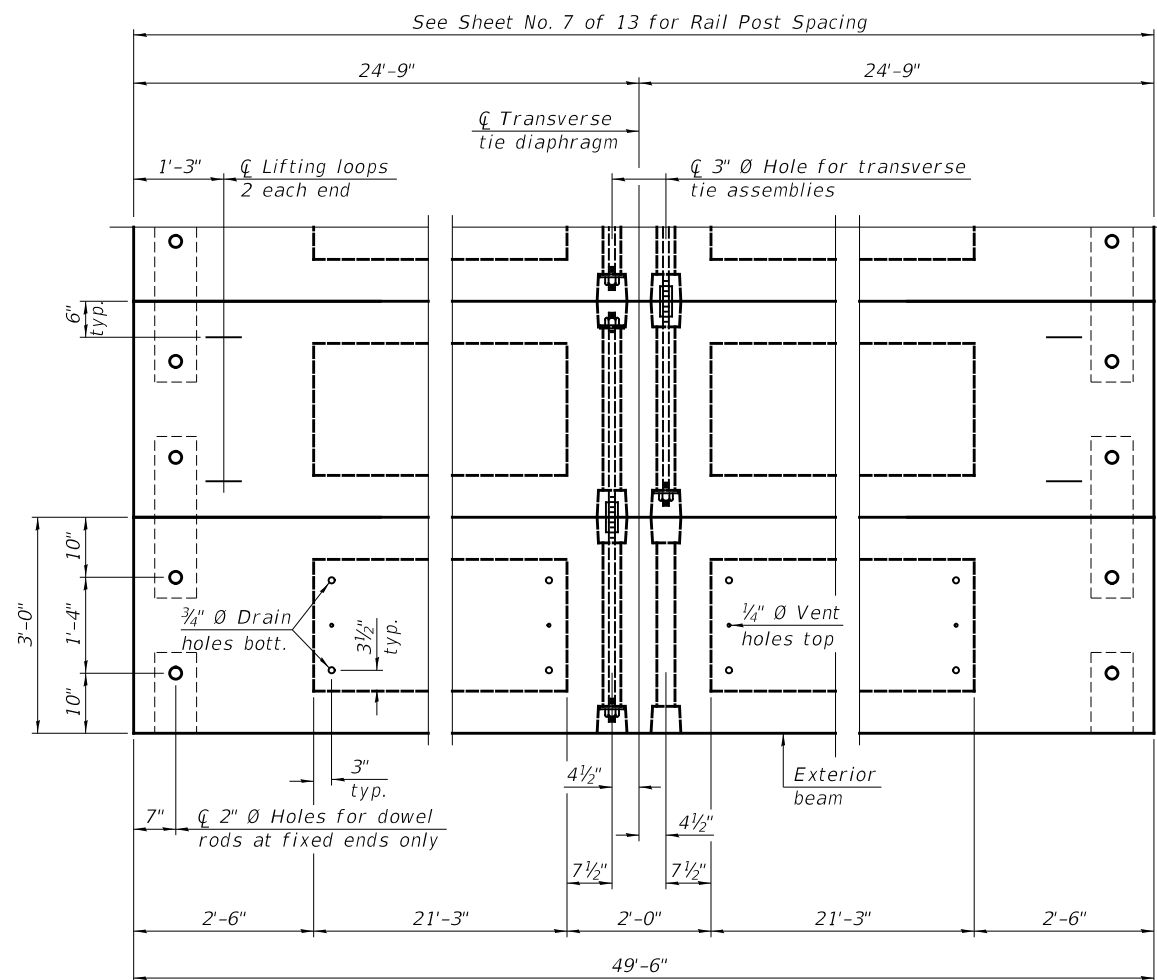
FIXED



SECTION A-A

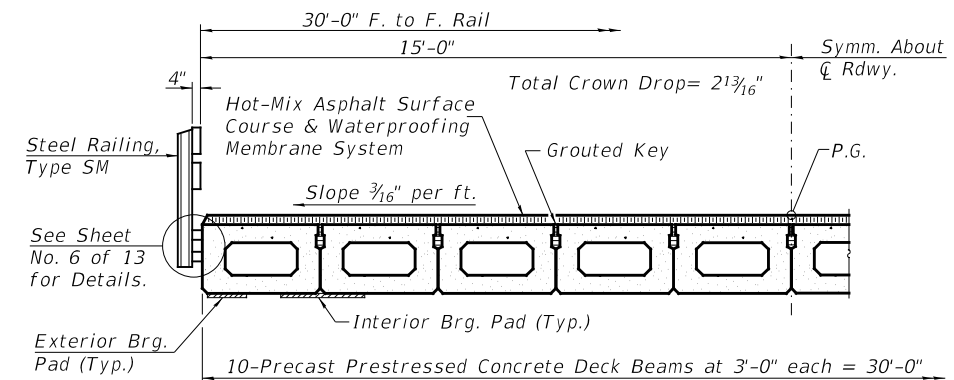


TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

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



HALF CROSS SECTION

BILL OF MATERIAL

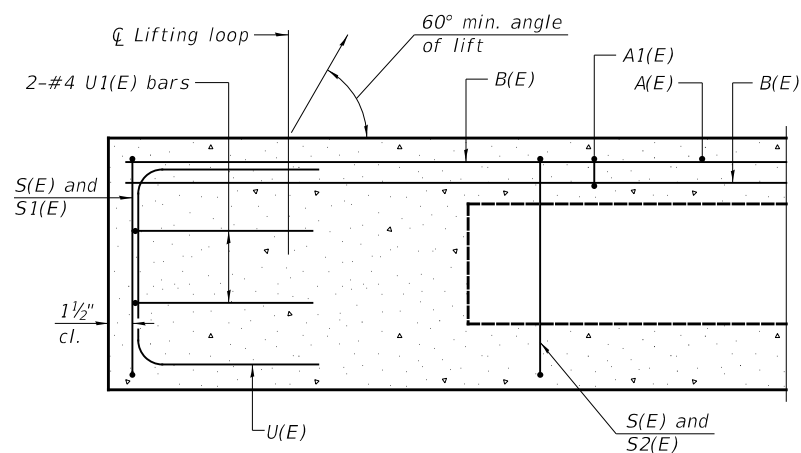
ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,485

NOTES

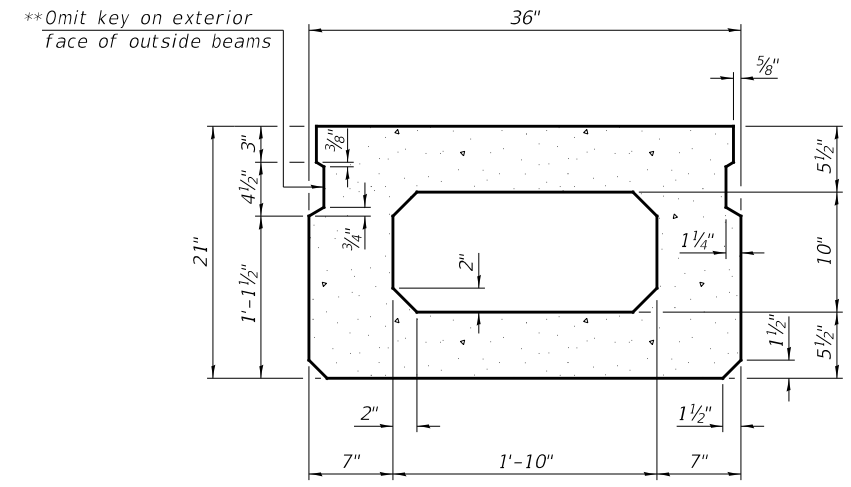
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" \emptyset rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" \emptyset lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE - SPAN 2
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

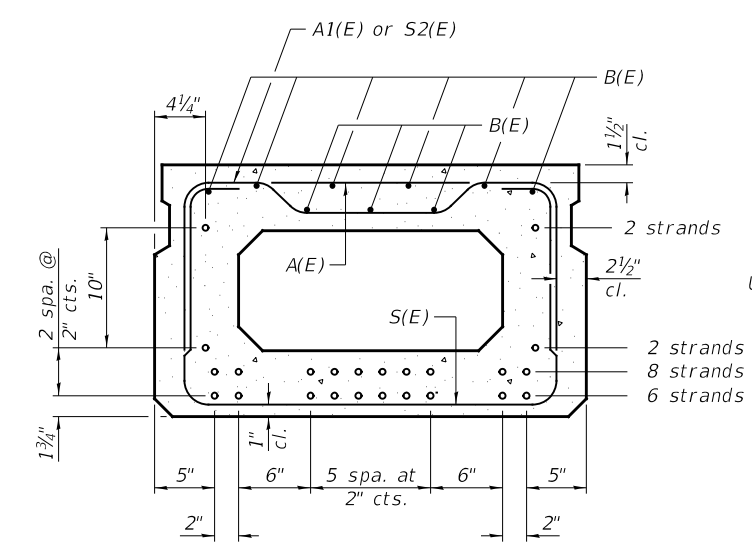
SHEET NO. 4 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	10
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



SECTION A-A

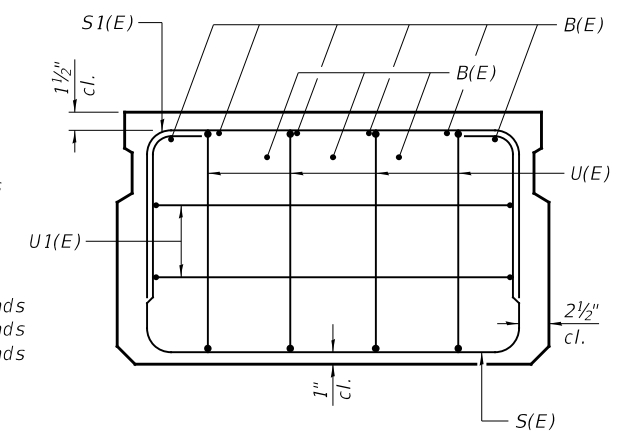


SECTION B-B
(Showing dimensions)



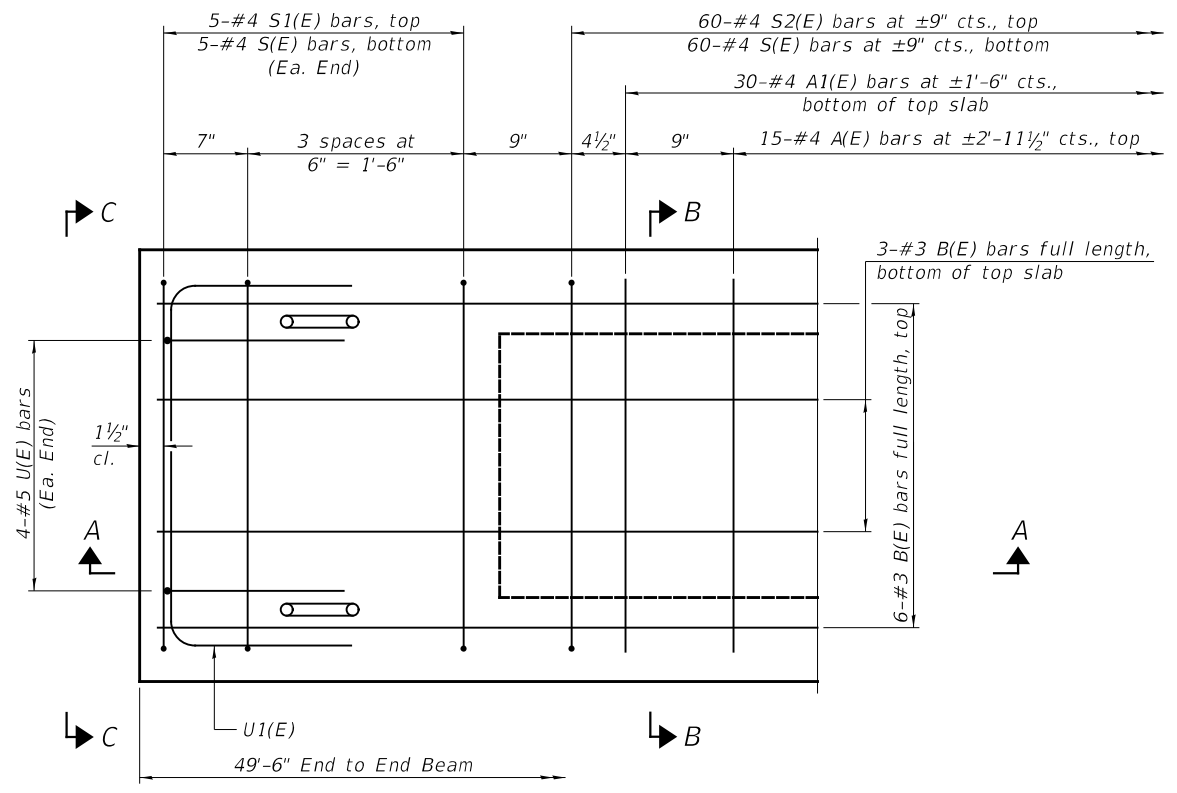
SECTION B-B

18-1/2"Ø Strands Each Strand Stressed to 30,900 Lbs.
 6-Strands 1 3/4" up, 8-Strands 3 3/4" up,
 2-Strands 5 3/4" up, 2-Strands 15 3/4" up
 Note: Place the number of strands specified in each row
 symmetrically about the centerline of beam in the
 permissible strand locations shown.

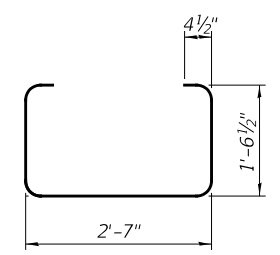


VIEW C-C

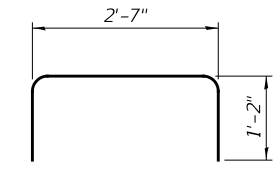
**Rail post anchor devices (Sheet No. 6 of 13)
 to be cast into exterior face of outside beams.



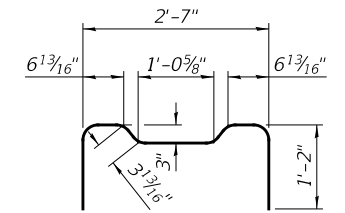
PLAN VIEW



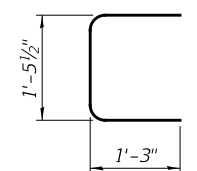
BAR S(E)



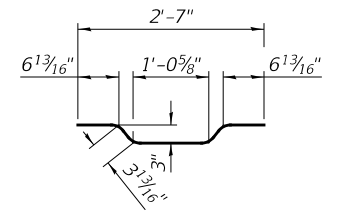
BAR S1(E)



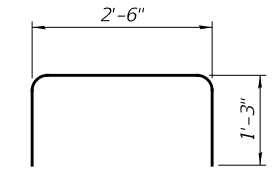
BAR S2(E)



BAR U(E)



BAR A1(E)



BAR U1(E)

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)	9	#3	*49'-3"	—
S(E)	70	#4	6'-5"	⌋
S1(E)	10	#4	4'-11"	⌋
S2(E)	60	#4	5'-2"	⌋
U(E)	8	#5	4'-0"	⌋
U1(E)	4	#4	5'-0"	⌋

Note:
 See Sheet No. 4 of 13 for additional
 details and Bill of Material.

*Total length, lap as necessary.

MINIMUM BAR LAP

#3 bar = 1'-6"

SUPERSTRUCTURE DETAILS -SPAN 2

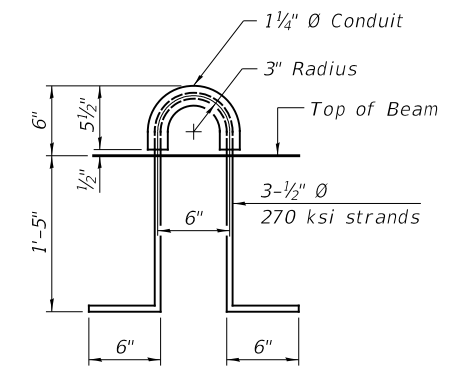
IROQUOIS COUNTY

SECTION 11-00047-01-BR

COUNTY HIGHWAY 4

OVER PIKE CREEK

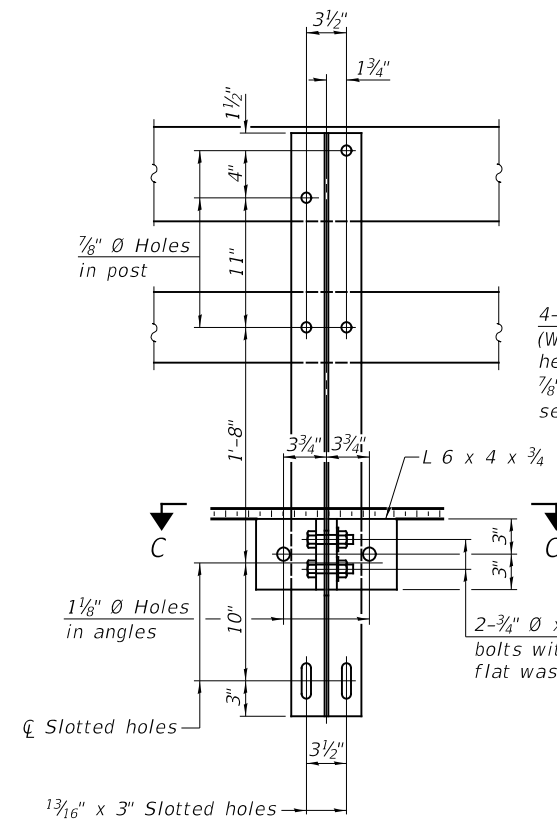
Note: Spacing of S(E) and S2(E) bars may be adjusted
 up to 4" in the immediate area of the transverse
 tie diaphragms to miss the block outs for the
 transverse ties.



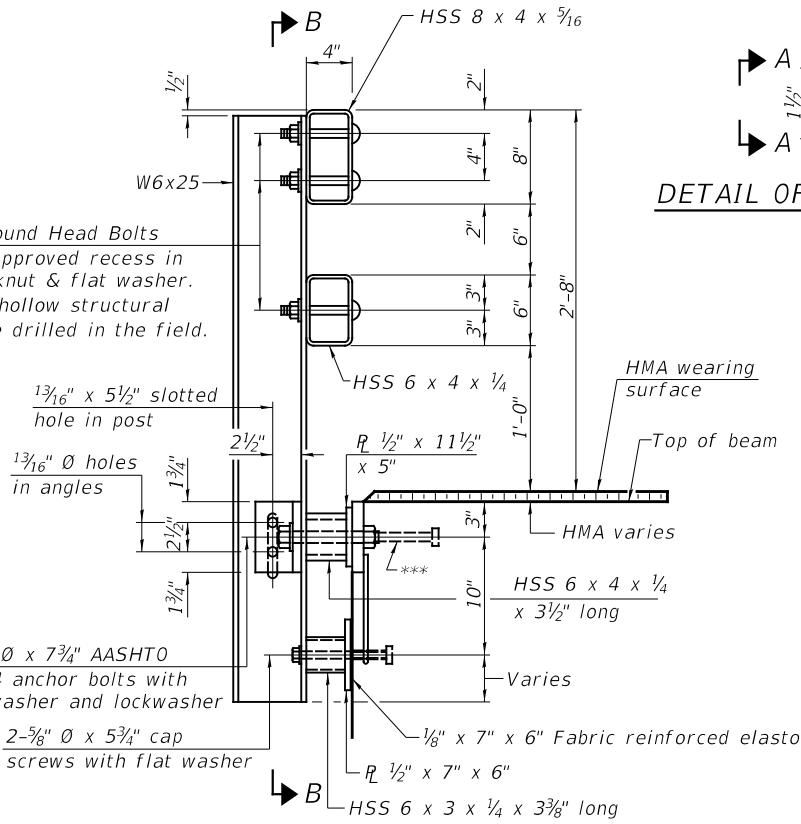
LIFTING LOOP DETAIL

SHEET NO. 5 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	11
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

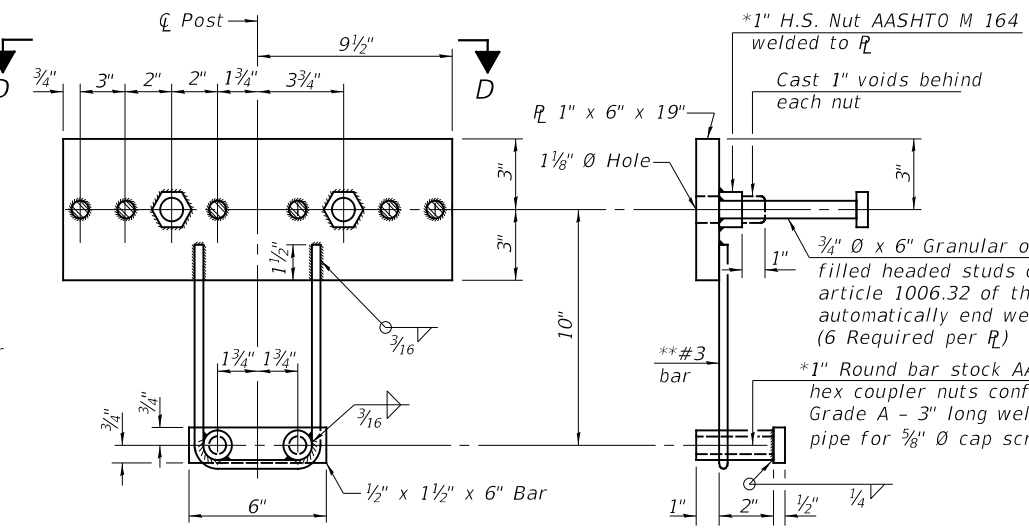
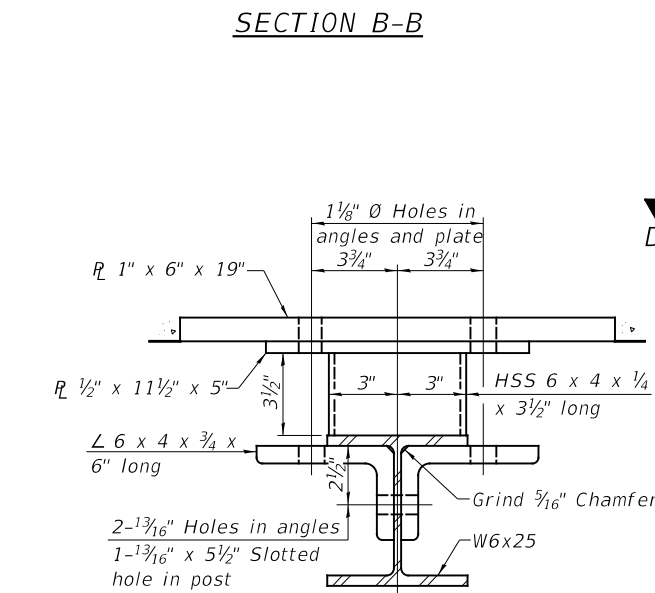
SEE SHEET NO. 7 OF 13 FOR RAIL POST SPACING



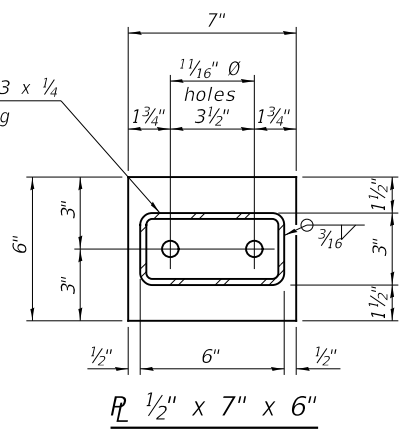
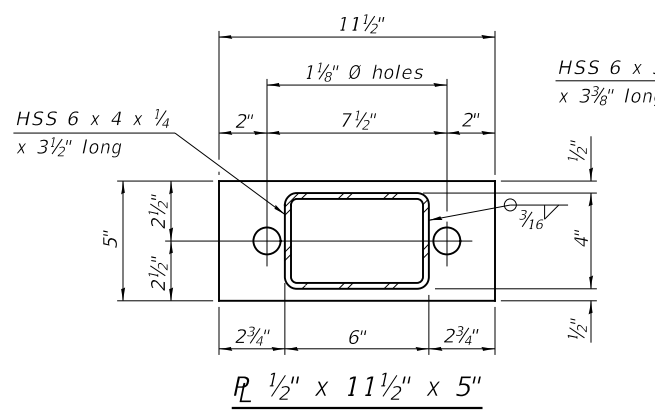
4- $\frac{3}{4}$ " \varnothing x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. $\frac{7}{8}$ " \varnothing holes in hollow structural section may be drilled in the field.



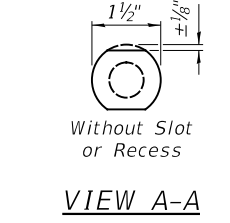
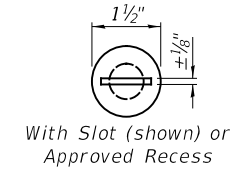
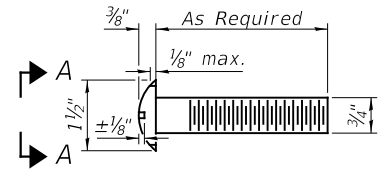
2- 1" \varnothing x 7 $\frac{3}{4}$ " AASHTO M-164 anchor bolts with flat washer and lockwasher
2- $\frac{5}{8}$ " \varnothing x 5 $\frac{3}{4}$ " cap screws with flat washer



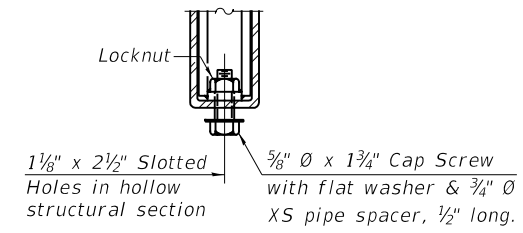
*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
**Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed $\frac{1}{2}$ ".



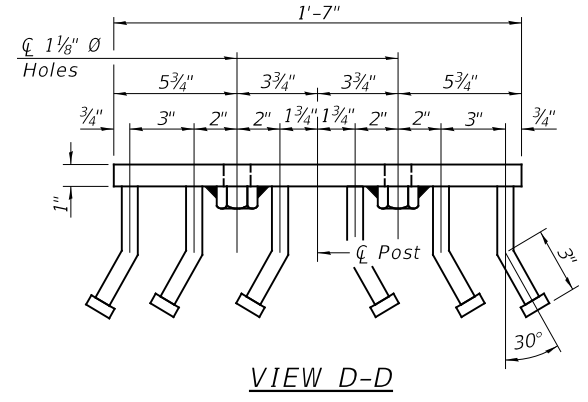
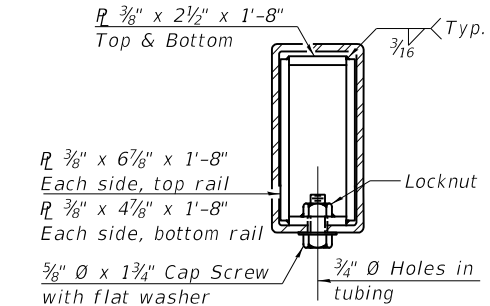
DETAIL OF $\frac{3}{4}$ " \varnothing ROUND HEAD BOLT



RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE

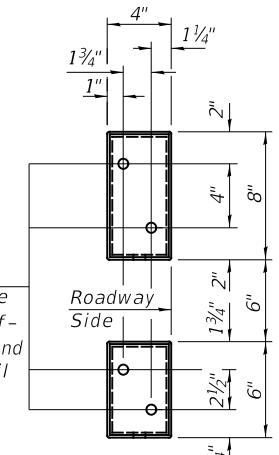


NOTES

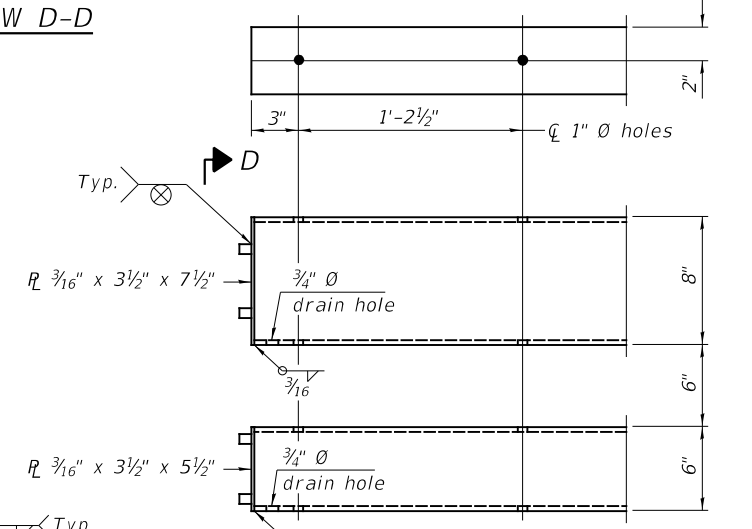
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

VIEW D-D



END OF RAIL DETAILS

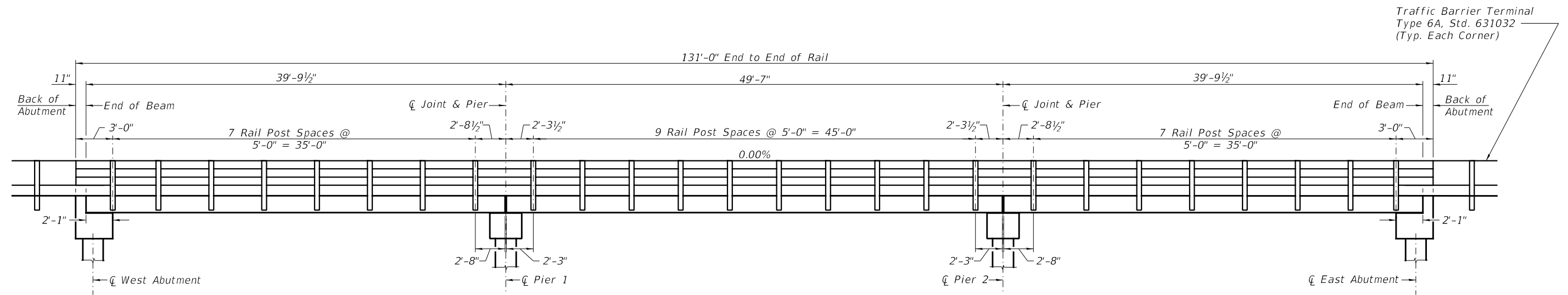


BILL OF MATERIAL

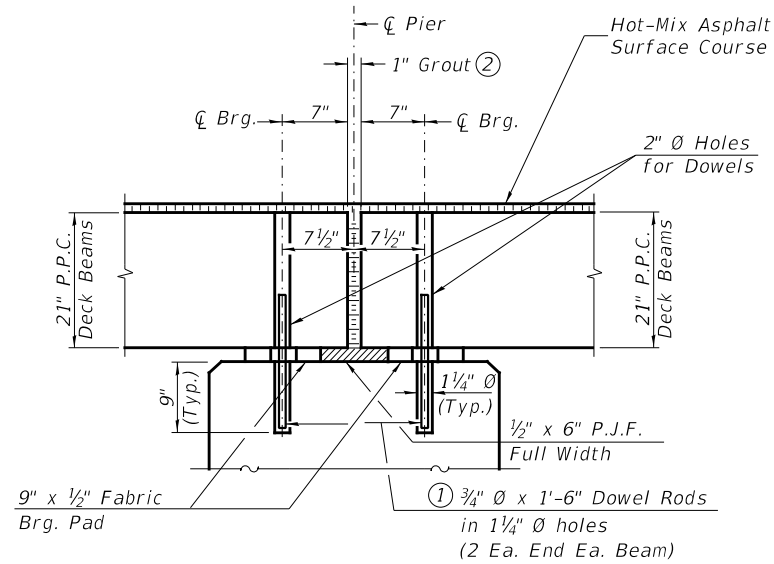
ITEM	UNIT	QUANTITY
Steel Railing, Type SM	FOOT	262

SHEET NO. 6 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	12
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

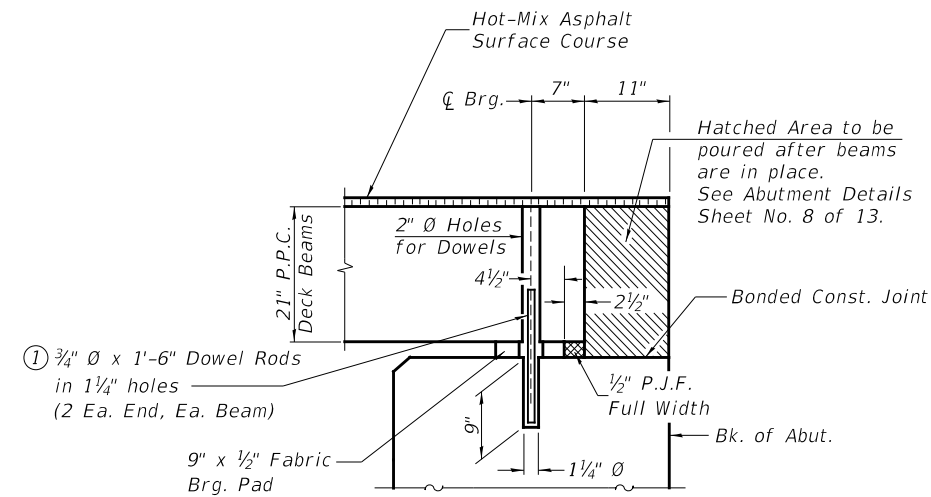
STEEL RAILING, TYPE SM
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK



RAIL POST SPACING

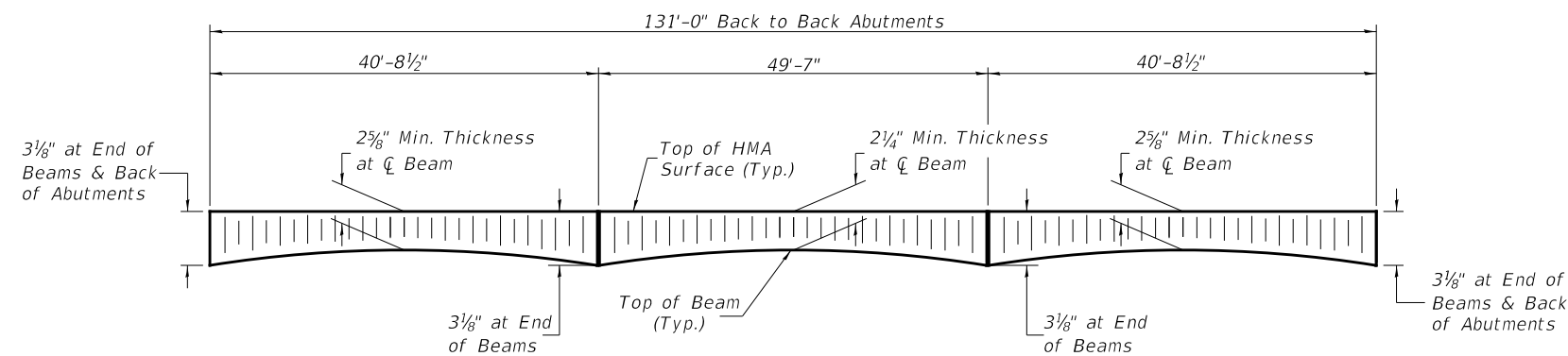


SECTION THRU PIERS



SECTION THRU ABUTMENTS

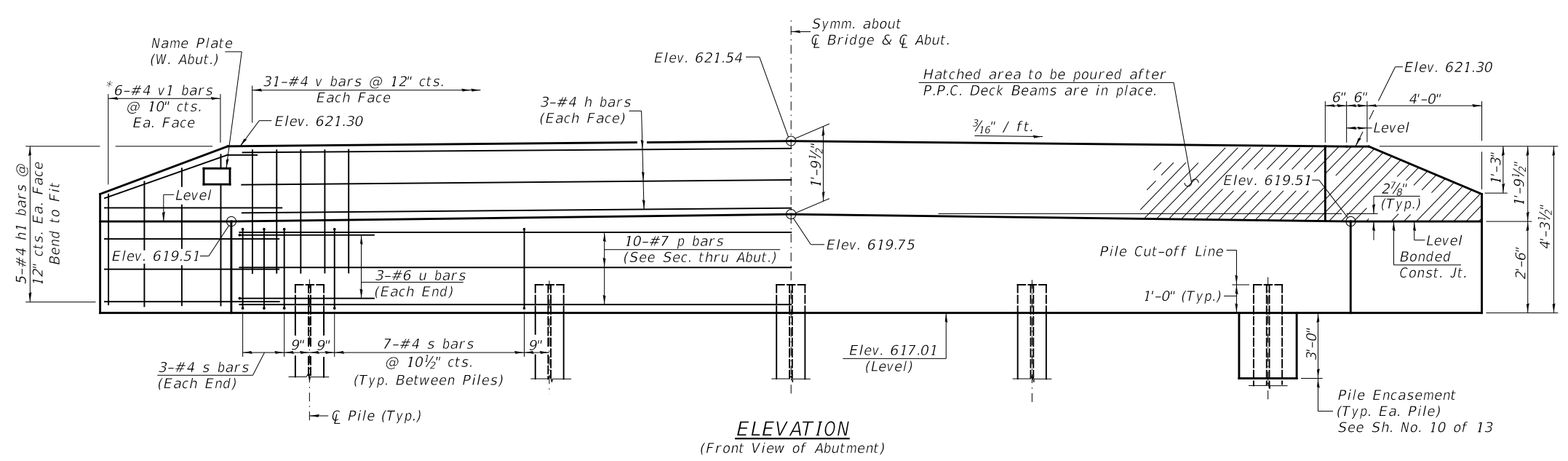
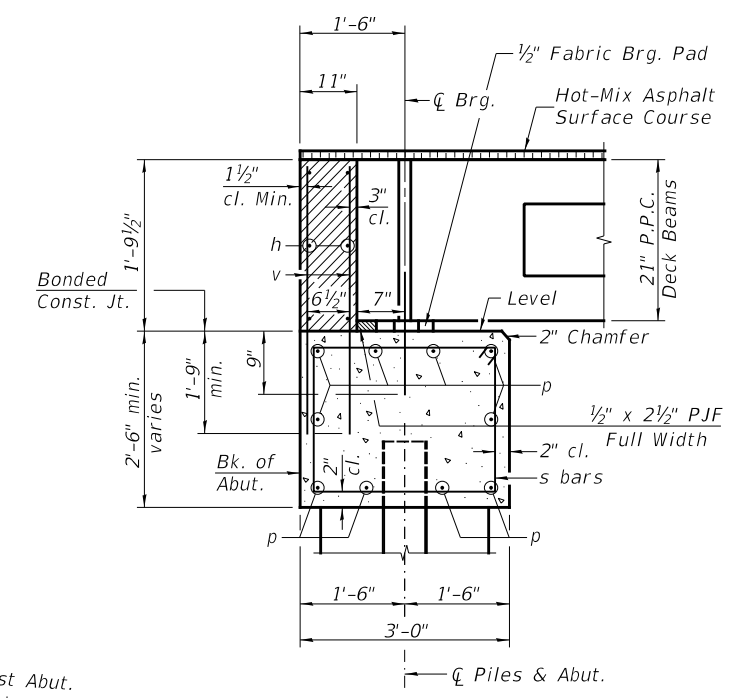
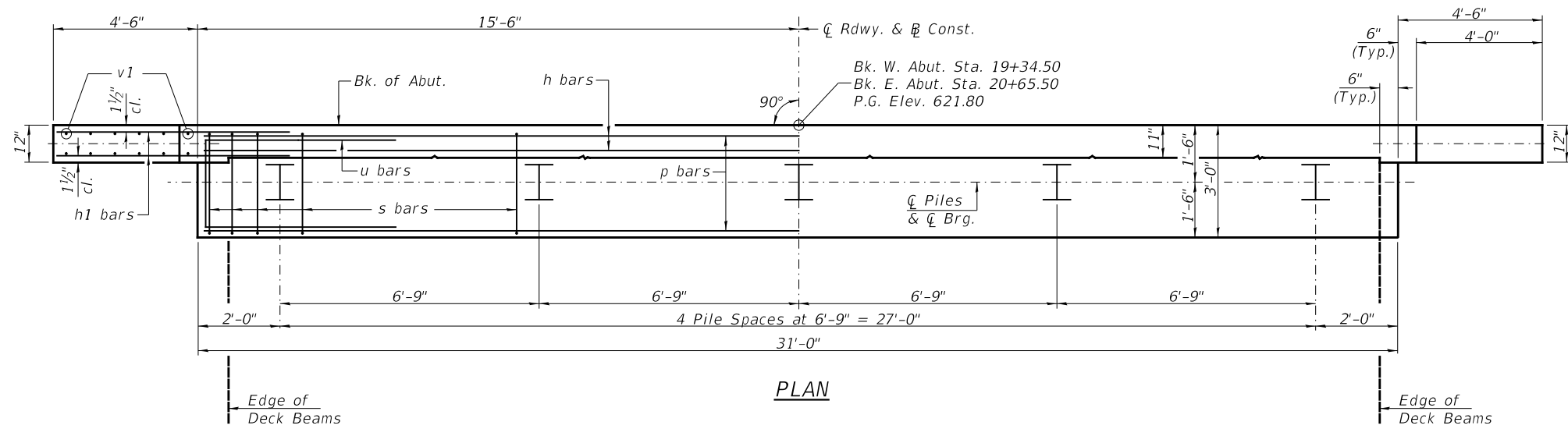
- ① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.
- ② 1" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.



ANTICIPATED HMA SURFACE PROFILE
Includes Waterproofing Membrane System ($\pm 3/4$)

**RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS**
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 7 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	13
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

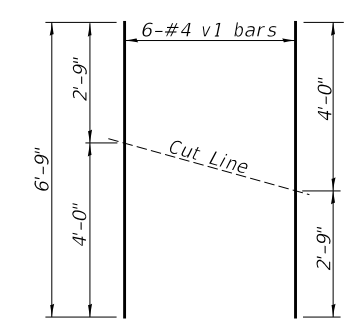


**TWO ABUTMENTS
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	30'-9"	—
h1	40	#4	6'-6"	—
p	20	#7	30'-9"	—
s	68	#4	10'-5"	□
u	12	#6	11'-7"	□
v	124	#4	3'-6"	—
v1	24	#4	6'-9"	—
Structure Excavation		CU YD	70	
Concrete Structures		CU YD	24.4	
Concrete Encasement		CU YD	3.5	
Reinforcement Bars		POUND	2,760	
Furnishing Steel Piles HP10x42		FOOT	360	
Driving Piles		FOOT	360	
Test Pile Steel HP10x42		EACH	2	
Pile Shoes		EACH	10	
Name Plates		EACH	1	

PILE DATA

Type & Size: Steel HP10x42 w/ pile shoes
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 184 kips
 Est. Length: 45' W. Abut.
 45' E. Abut.
 No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)



*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.

**ABUTMENTS
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK**

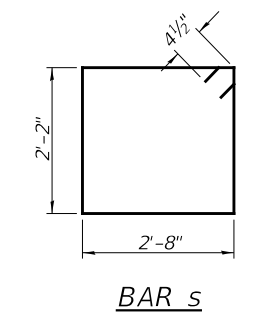
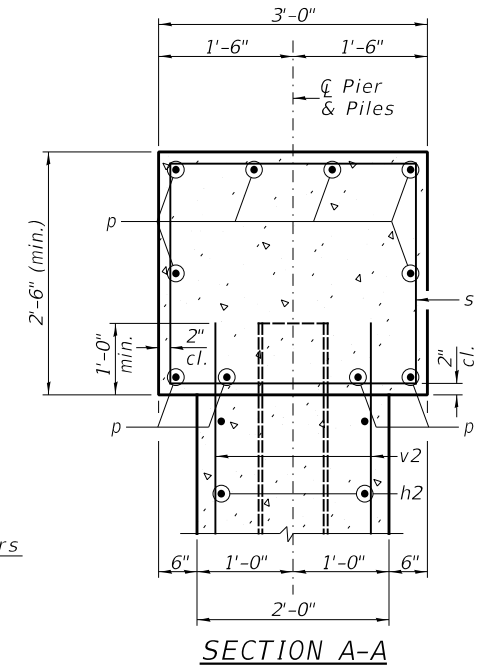
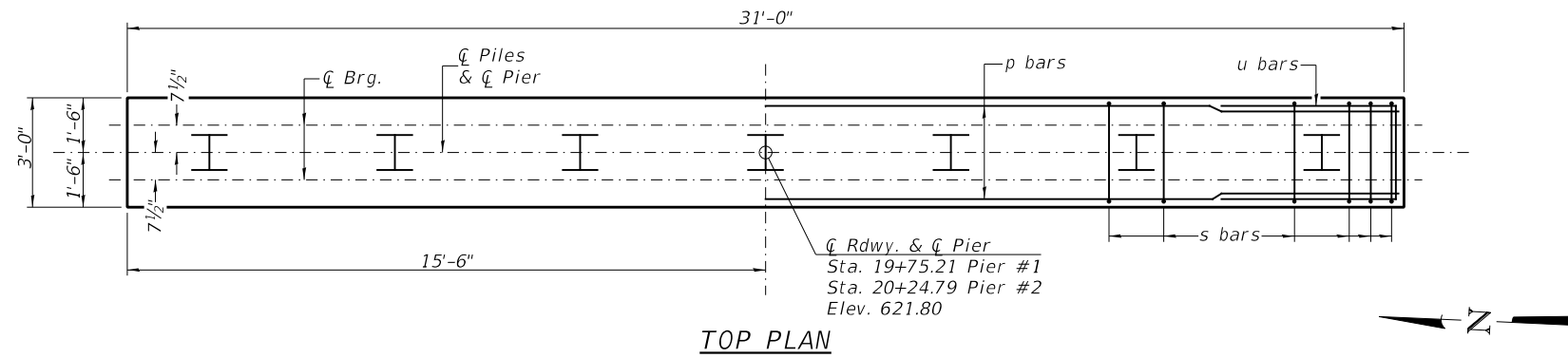
SHEET NO. 8 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	14
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

NOTES

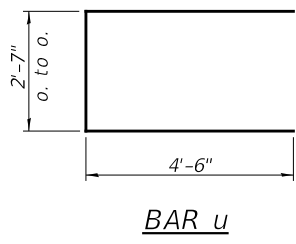
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.

NOTES

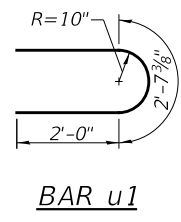
All edges shall have standard 3/4" chamfer.
 If a portion of the pier wall is underwater, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an Elevation 1'-0" above the water level at the time of construction. See Sheet No. 10 of 13 for Pile Details.
 The Pier Stem shall be constructed in a single continuous concrete pour.



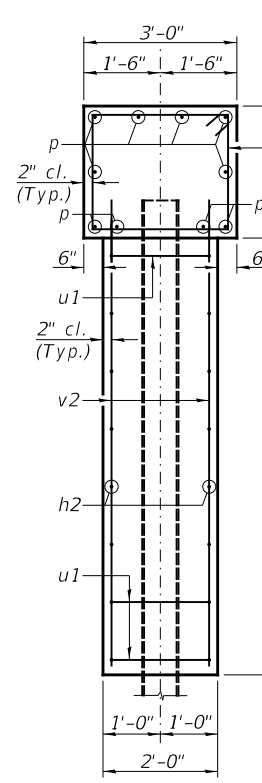
BAR s



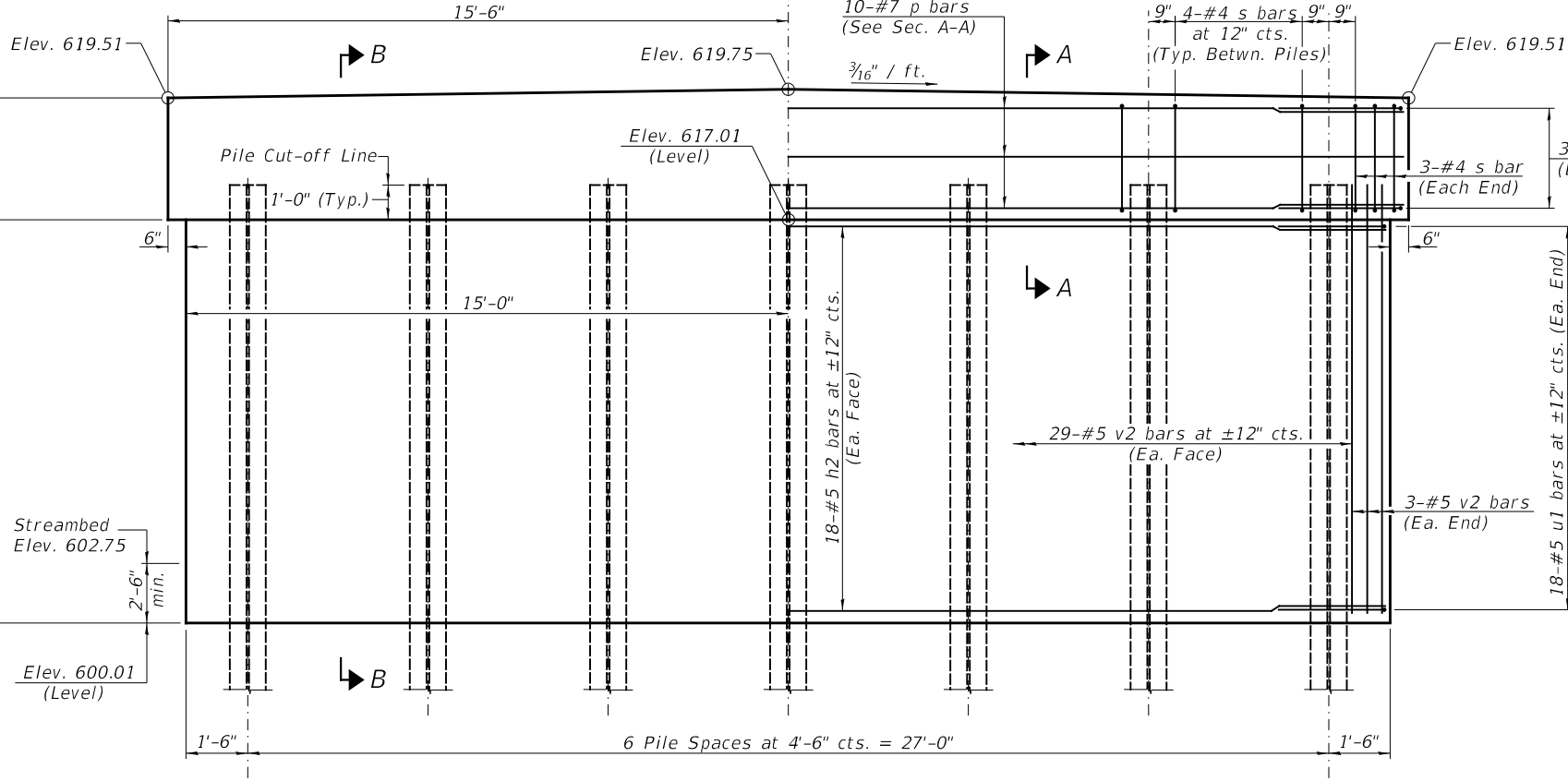
BAR u



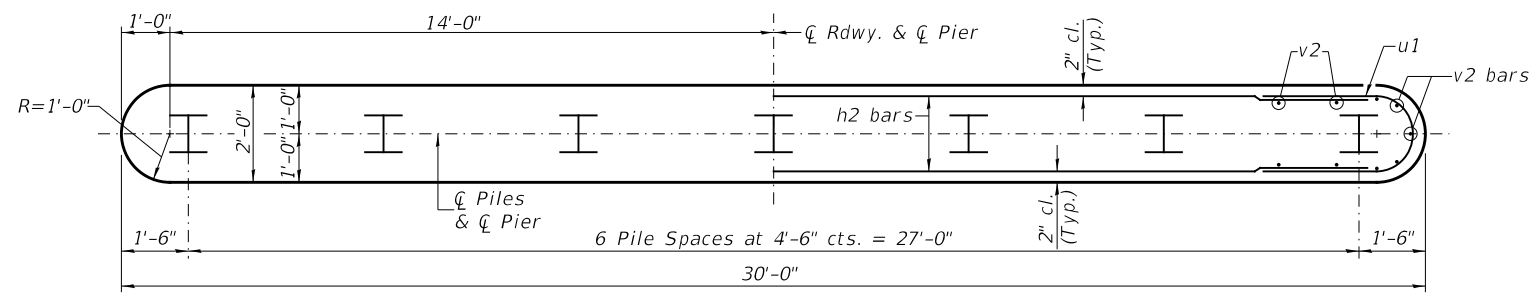
BAR u1



SECTION B-B



ELEVATION
(Looking Upstation)



FOOTING PLAN

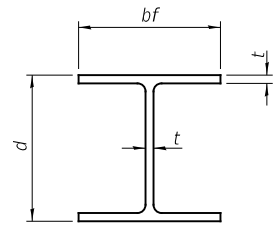
**TWO PIERS
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h2	72	#5	27'-9"	—
p	20	#7	30'-9"	—
s	60	#4	10'-5"	□
u	12	#6	11'-7"	U
u1	72	#5	6'-8"	C
v2	128	#5	17'-10"	—
Cofferdam Excavation		CU YD	115	
Cofferdam (Type 1) (Location-1)		EACH	1	
Cofferdam (Type 1) (Location-2)		EACH	1	
Concrete Structures		CU YD	92.4	
Reinforcement Bars		POUND	6,850	
Furnishing Steel Piles HP10x42		FOOT	540	
Driving Piles		FOOT	540	
Test Pile Steel HP10x42		EACH	2	
Pile Shoes		EACH	14	

PILE DATA
 Type & Size: Steel HP10x42 w/ pile shoes
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 184 kips
 Est. Length: 45' Pier #1
 45' Pier #2
 No. Req'd.: 14 (Includes 1 Test Pile at Each Pier)

PIERS
 IROQUOIS COUNTY
 SECTION 11-00047-01-BR
 COUNTY HIGHWAY 4
 OVER PIKE CREEK

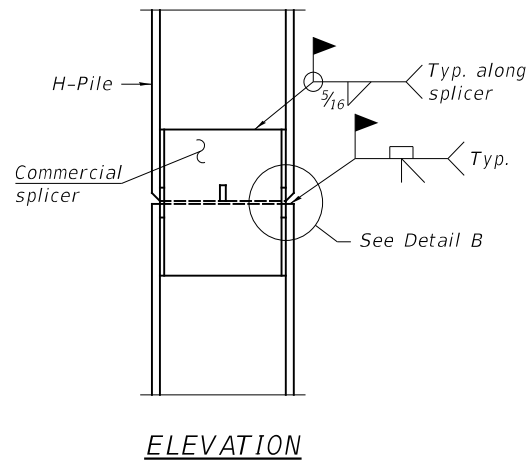
SHEET NO. 9 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	15
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



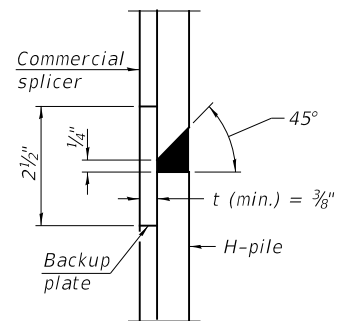
STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/2"	1 1/16"	24"
x74	12 1/8"	12 1/2"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

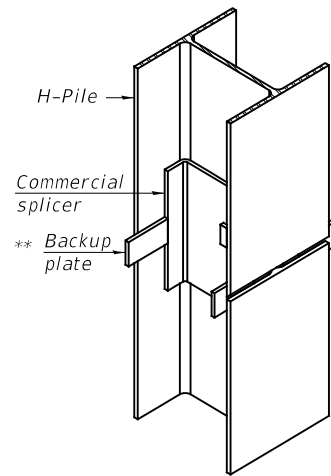
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



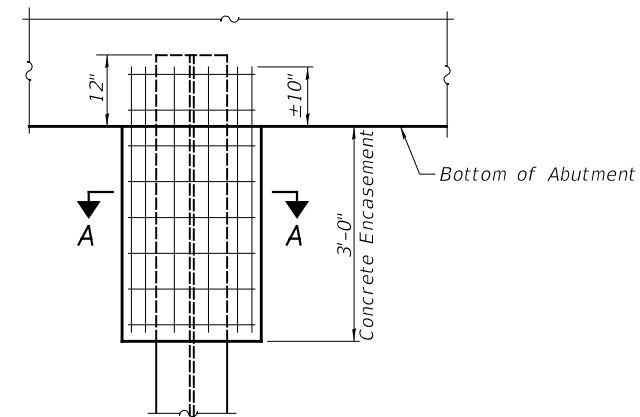
ELEVATION



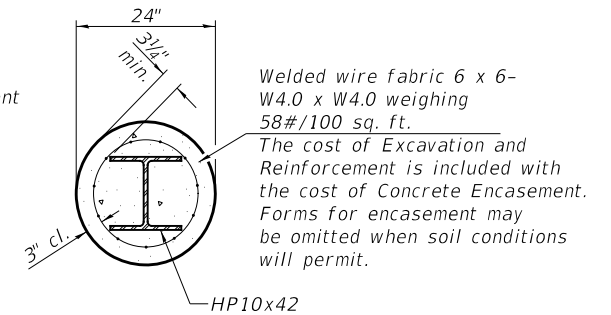
DETAIL "B"



ISOMETRIC VIEW

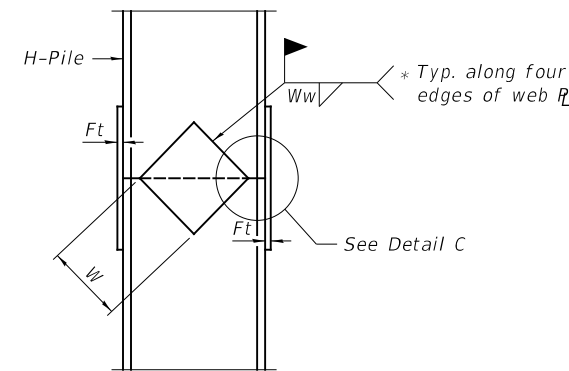


ABUTMENT ELEVATION

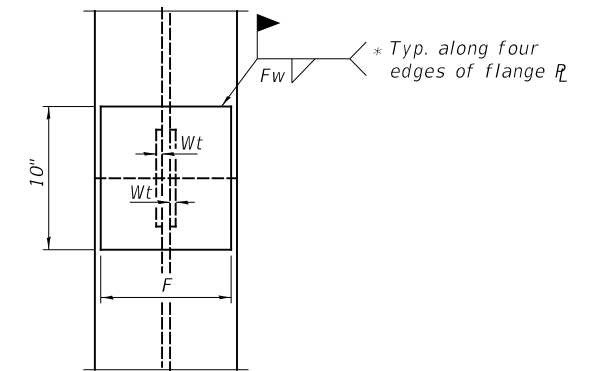


SECTION A-A

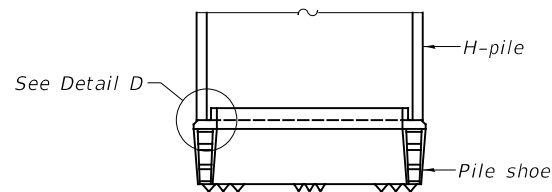
PILE ENCASEMENT



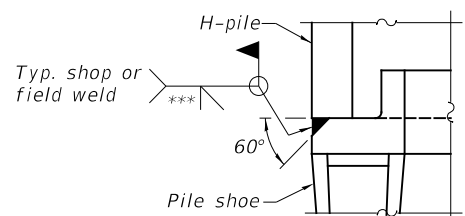
ELEVATION



END VIEW

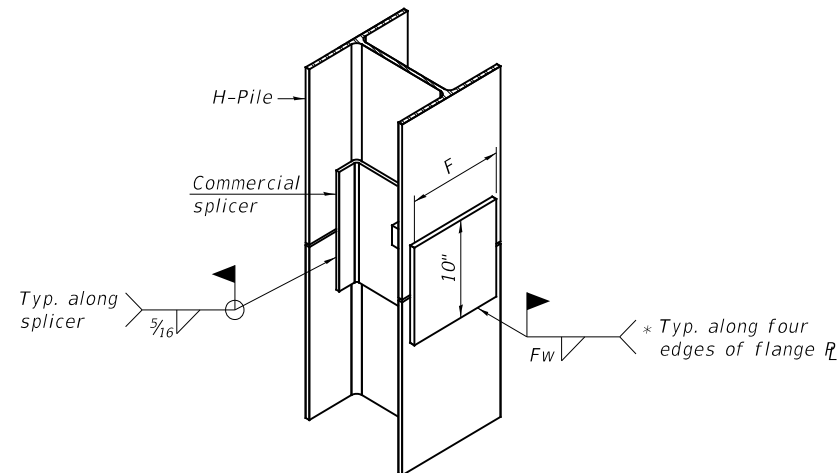


ELEVATION



DETAIL D

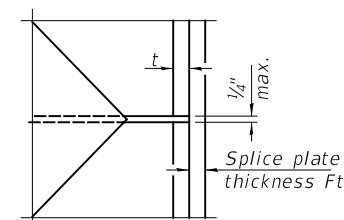
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.
** Remove portions of backup plates that extend outside the flanges.
*** Weld size per pile shoe manufacturer (5/16" min.).



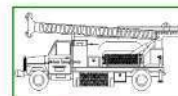
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

**HP PILE DETAILS
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK**

SHEET NO. 10 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	16
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

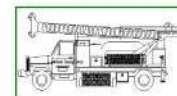
Client: Hutchison Engineering, Inc.
Project Name Section No.: 11-00047-01-BR
Project Site: County Highway 4 over Pike Creek

Boring No. B-1
Surface Elev. 621.50
Auger Depth 49.00 Rotary Depth NA
Start Date 11/16/19 Finish Date 11/16/19

Location: Iroquois County, Martinton Twp. IL
Station: 19+20 12' LT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
621.50										Randy Safranski Diedrich D-120	
620.50	Stiff Brown/Black Silty Clay Fill		1								
619.50			2								
618.50			3	1	SS	1.7	11	B	19		
617.50			4								
616.50			5	2	SS	1.5	9	B	21		
615.50			6								
614.50			7								
613.50			8	3	SS	2.0	8	B	19		
612.50			9								
611.50	Stiff Brown Clay		10	4	SS	1.8	8	B	21		
610.50			11								
609.50			12								
608.50			13	5	SS	1.5	7	B	29		
607.50			14								
606.50			15	6	SS	1.7	10	B	29		
605.50			16								
604.50			17								
603.50			18	7	SS	1.6	10	B	28		
602.50			19								
601.50	Very Stiff Brown/Gray Clay		20	8	SS	2.6	16	B	26		
				21							

Groundwater Data: Water after auger removal 18-feet below top of ground elevation
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name Section No.: 11-00047-01-BR
Project Site: County Highway 4 over Pike Creek

Boring No. B-1
Surface Elev. 621.50
Auger Depth 49.00 Rotary Depth NA
Start Date 11/16/19 Finish Date 11/16/19

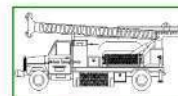
Location: Iroquois County, Martinton Twp. IL
Station: 19+20 12' LT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
600.50										Randy Safranski Diedrich D-120	
599.50	Stiff Gray Clay		22								
598.50			23	8	SS	1.2	8	B	19		
597.50			24								
596.50			25	9	SS	1.4	9	B	18		
595.50			26								
594.50			27								
593.50			28	10	SS	1.8	10	B	18		
592.50			29								
591.50	Very Stiff Gray Clay Till		30	11	SS	2.5	11	B	18		
590.50			31								
589.50			32								
588.50			33	12	SS	2.9	16	B	18		
587.50			34								
586.50			35								
585.50			36	13	SS	3.6	22	B	17		
584.50			37								
583.50			38								
582.50			39								
581.50	Hard Gray Silty Clay Loam Till		40	12	SS	4.0	64	S	12		
580.50			41								

Groundwater Data: Water after auger removal 18-feet below top of ground elevation
Comments:

SOIL BORINGS
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 11 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	17
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F3SF(323)		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

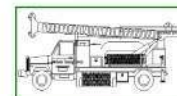
Client: Hutchison Engineering, Inc.
Project Name Section No.: 11-00047-01-BR
Project Site: County Highway 4 over Pike Creek

Boring No. B-1
Surface Elev. 621.50
Auger Depth 49.00 Rotary Depth NA
Start Date 11/16/19 Finish Date 11/16/19

Location: Iroquois County, Martinton Twp. IL
Station: 19+20 12' LT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
579.50											
578.50	Hard Gray Silty Clay Loam Till with Sand Seams		43								
577.50			44								
576.50			45								
575.50			46	13	SS	4.0	61	S	12		
574.50			47								
573.50			48	14	SS	---	100	---	---		
572.50	Boulder Pavement or Limestone		49								
571.50	Boring Terminated Auger Refusal		50								
570.50			51								
569.50			52								
568.50			53								
567.50			54								
566.50			55								
565.50			56								
564.50			57								
563.50			58								
562.50			59								
561.50			60								
560.50			61								
559.50			62								

Groundwater Data: Water after auger removal 18-feet below top of ground elevation
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name Section No.: 11-00047-01-BR
Project Site: County Highway 4 over Pike Creek

Boring No. B-2
Surface Elev. 621.30
Auger Depth 48.50 Rotary Depth NA
Start Date 11/16/19 Finish Date 11/16/19

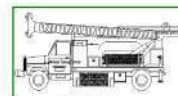
Location: Iroquois County, Martinton Twp. IL
Station: 20+90 7' RT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
621.30											
620.30	Asphalt over Aggregate		1								
619.30			2								
618.30			3	1	SS	1.6	11	B	20		
617.30			4								
616.30	Stiff Brown/Black Silty Clay Fill		5	2	SS	1.5	8	B	22		
615.30			6								
614.30			7								
613.30			8	3	SS	1.3	8	B	23		
612.30			9								
611.30			10	4	SS	1.5	8	B	21		
610.30			11								
609.30			12								
608.30			13	5	SS	2.0	10	B	29		
607.30			14								
606.30	Stiff Brown Clay		15	6	SS	1.8	9	B	32		
605.30			16								
604.30			17								
603.30			18	7	SS	2.1	11	B	29		
602.30			19								
601.30	Very Stiff Brown/Gray Clay		20	8	SS	2.7	17	B	26		

Groundwater Data: Water after auger removal 18-feet below top of ground elevation
Comments:

SOIL BORINGS
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 12 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	18
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

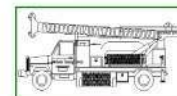
Client: Hutchison Engineering, Inc.
Project Name Section No.: 11-00047-01-BR
Project Site: County Highway 4 over Pike Creek

Boring No. B-2
Surface Elev. 621.30
Auger Depth 48.50 Rotary Depth NA
Start Date 11/16/19 Finish Date 11/16/19

Location: Iroquois County, Martinton Twp. IL
Station: 20+90 7' RT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)			Dry Density (PCF)	
600.30													
599.30	Stiff to Very Stiff Gray Clay		22										
598.30			23	8	SS	2.5	12	B	18				
597.30	Stiff Gray Clay		25	9	SS	1.5	8	B	20				
596.30			26										
595.30			27										
594.30	Very Stiff Gray Clay Till		28	10	SS	1.9	9	B	19				
593.30			29										
592.30			30	11	SS	2.7	13	B	18				
591.30	Hard Gray Silty Clay Loam Till		31										
590.30			32										
589.30			33	12	SS	2.5	13	B	19				
588.30			34										
587.30			35										
586.30			36	13	SS	2.5	13	B	19				
585.30			37										
584.30			38										
583.30			39										
582.30			40										
581.30			41	12	SS	4.0	58	S	12				
580.30			42										

Groundwater Data: Water after auger removal 18-feet below top of ground elevation
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name Section No.: 11-00047-01-BR
Project Site: County Highway 4 over Pike Creek

Boring No. B-2
Surface Elev. 621.30
Auger Depth 48.50 Rotary Depth NA
Start Date 11/16/19 Finish Date 11/16/19

Location: Iroquois County, Martinton Twp. IL
Station: 20+90 7' RT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)			Dry Density (PCF)	
579.30													
578.30	Hard Gray Silty Clay Loam Till with Sand Seams		43										
577.30			44										
576.30	Boulder Pavement or Limestone		45	13	SS	4.0	61	S	12				
575.30			46										
574.30			47										
573.30	Boring Terminated Auger Refusal		48	14	SS	---	100 1"	---	---				
572.30			49										
571.30			50										
570.30			51										
569.30			52										
568.30			53										
567.30			54										
566.30			55										
565.30			56										
564.30			57										
563.30			58										
562.30			59										
561.30			60										
560.30			61										
559.30			62										
558.30			63										

Groundwater Data: Water after auger removal 18-feet below top of ground elevation
Comments:

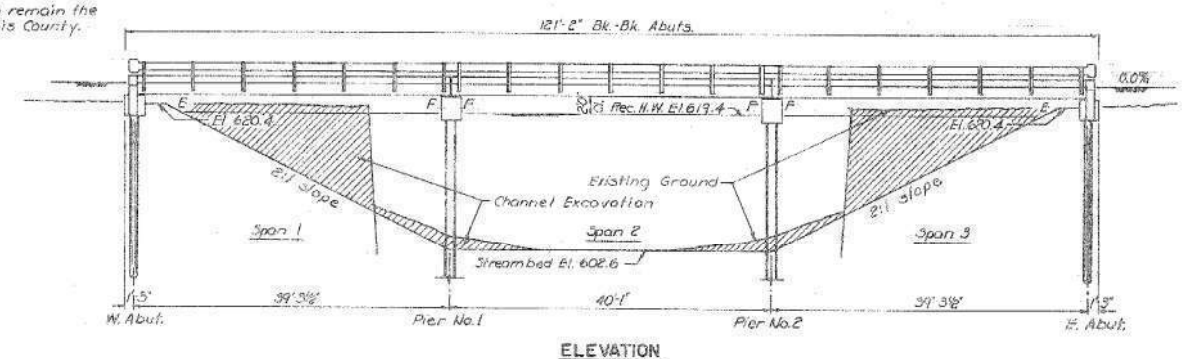
SOIL BORINGS
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 13 13 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	19
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

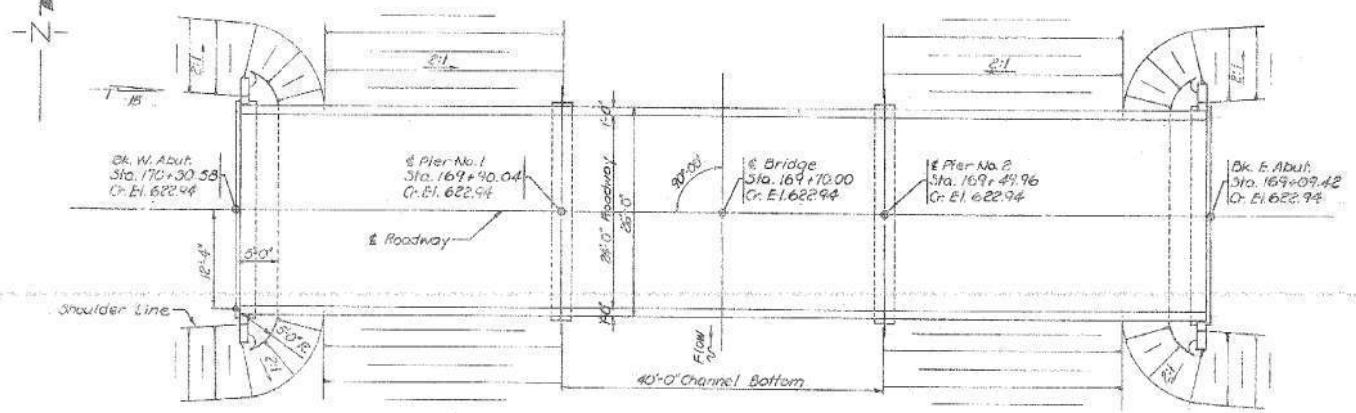
B.M. #34 - S.W. corner of N.E. Wing.
 E. Abut. of existing bridge, El. 621.01.
 Existing Structure: Steel pony truss,
 one span @ 60', 16' rdwy, Conc. floor.
 Substructure: Conc. abuts. w/ wings.
 Contractor shall remove existing
 structure prior to construction
 of new bridge.
 Salvable materials to remain the
 property of Iroquois County.

PROJECT NO.	47B	COUNTY	Iroquois	SHEET NO.	2
DATE	3-22-1961	PROJECT	11-00047-01-BR		

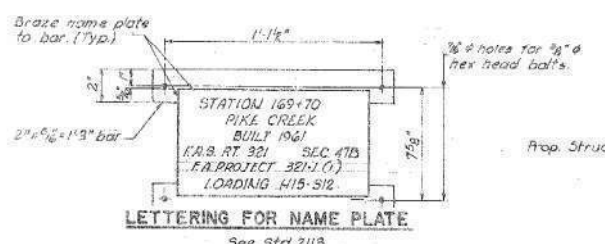
SHEET 1 OF 3



ELEVATION

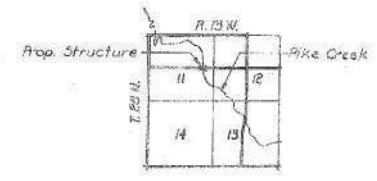


PLAN



LETTERING FOR NAME PLATE

See Std 2113
 Note: 2" x 3/4" x 1/8" bars are incidental to the cast of Name Plates, and will not be paid for separately.



LOCATION PLAN

Note: Channel to be excavated as shown within the limits of the Bridge. Provide transitions, each side, to meet existing channel at R.O.W. lines. 450 Cu Yds Est. Channel Excavation.

WATERWAY DATA

Drainage Area	46,400 ac
Required Opening (15 yr)	870 sq ft
Present Opening	637 sq ft
Proposed Opening	870 sq ft
* Below El. 616.0±	

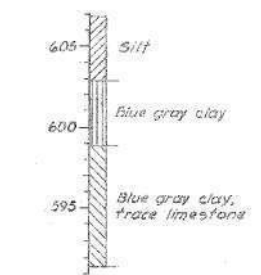
DESIGN STRESSES

f_c	2000 psi (Super)
f_s	1400 psi (Sub)
f_s	20,000 psi (Reinf.)
f_s	160,000 psi (Presh. Strand)
n	10

Loading H15-S1P-44

GENERAL NOTES

For items Metal Plate Bridge Rail, Bituminous Surface Treatment & Bearing Pads see Special Provisions. Class X Concrete shall be used in curbs, pile caps & wingwalls. The Contractor shall drive two (2) test piles. One Timber test pile shall be driven as directed by the Engineer before ordering the remainder of the timber piles. One Concrete test pile shall be driven in a permanent location before casting the remainder of the piles. Pier piles shall have a minimum penetration of 15 ft below streambed. Metal straps for name plates shall receive one shop coat of red lead paint & two field coats of aluminum paint.



BORING DATA

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB	TOTAL
Precast Prestressed Concrete Bridge Deck	Sq. Ft. 3120	-	3120
Class X Concrete	Cu Yds 7.7	28.0	35.7
Reinforcement Bars	Lbs. -	2570	2570
Metal Plate Bridge Rail	Lin. Ft. 235	-	235
Crossed Piles	Lin. Ft. -	280	280
Test Piles (Timber)	Each -	1	1
Precast Concrete Piles, 12"	Lin. Ft. -	360	360
Test Piles (Concrete)	Each -	1	1
Bituminous Surface Treatment, Subclass A-3	Sq. Yds 320	-	320
Name Plates	Each -	1	1
Removal of Existing Structures	Each -	1	1
Channel Excavation	Cu Yds -	450	450

GENERAL PLAN & ELEVATION
 TREISCHER BRIDGE
 F.A.S. RT. 321 (C.H. RT. 4) SEC. 47B
 IROQUOIS COUNTY
 STATION 169+7000
 WALTER E. HANSON & COMPANY
 ENGINEERS - CONSULTANTS

W. E. Hanson
 Illinois Struct. #2529

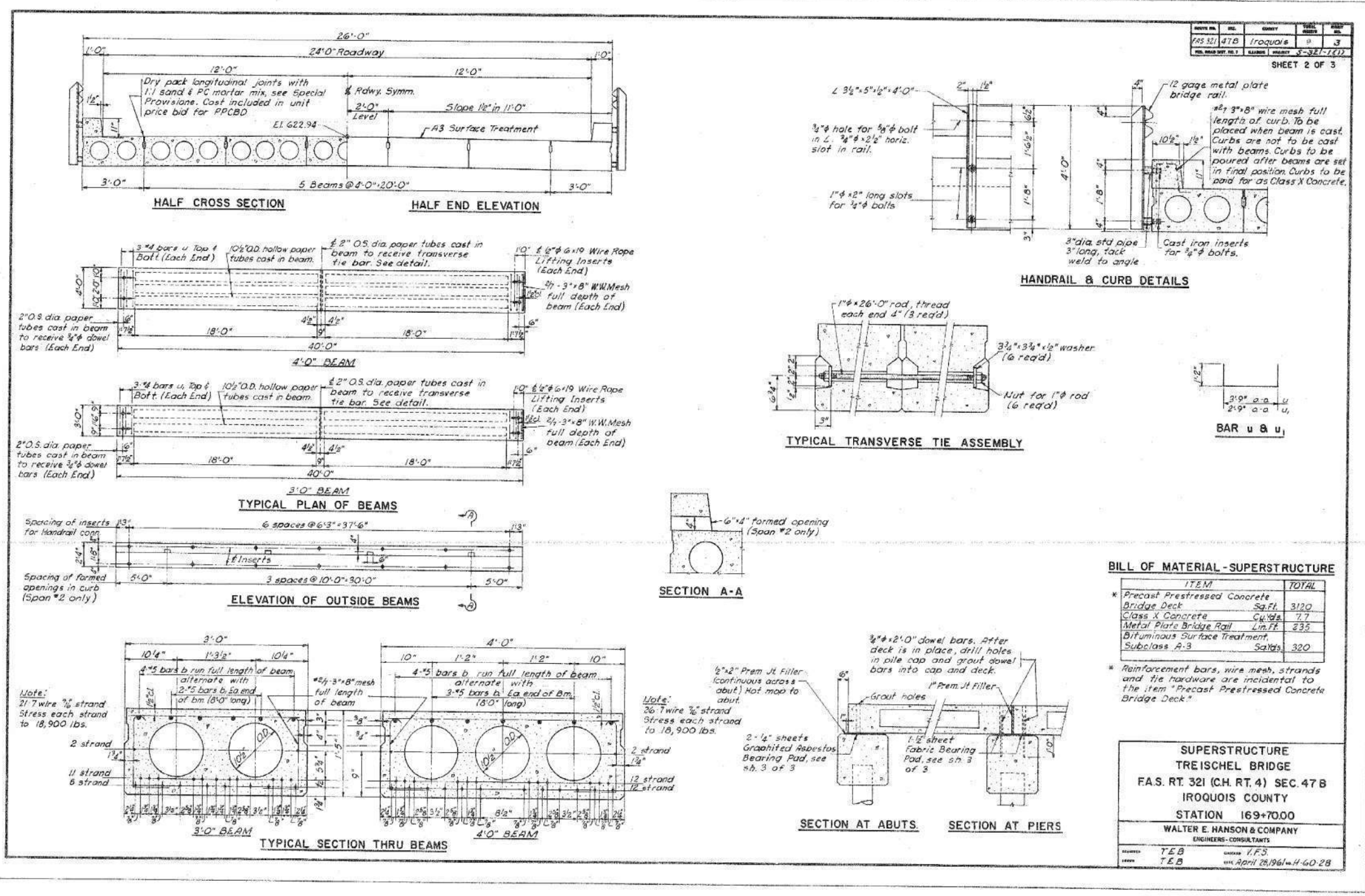
APR 20 1961

SCALE 1/8" = 1'-0"

DATE April 20, 1961

EXISTING PLANS
 IROQUOIS COUNTY
 SECTION 11-00047-01-BR
 COUNTY HIGHWAY 4
 OVER PIKE CREEK

SHEET NO. 1 3 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	20
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



ROUTE NO.	SEC.	COUNTY	SHEET NO.
FAS 321	47B	Iroquois	3
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	3-32-1(1)

BILL OF MATERIAL - SUPERSTRUCTURE

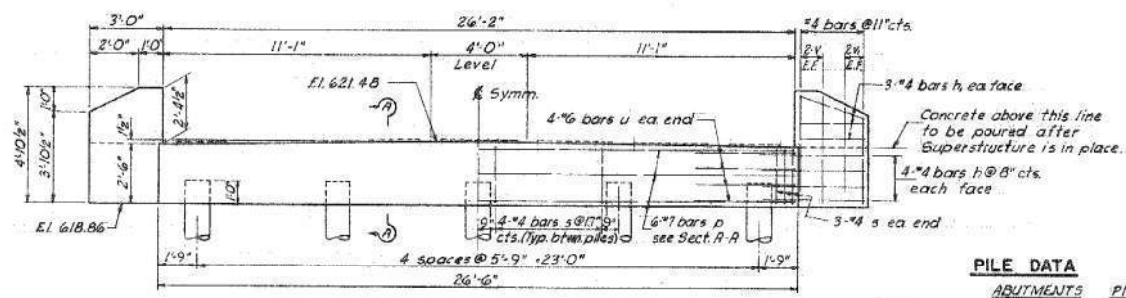
ITEM	TOTAL
* Precast Prestressed Concrete Bridge Deck	Sq.Ft. 3120
Class X Concrete	Cu.Yds. 7.7
Metal Plate Bridge Rail	Lin.Ft. 335
Bituminous Surface Treatment, Subclass A-3	Sq.Yds. 320

**SUPERSTRUCTURE
TREISCHEL BRIDGE**
 F.A.S. RT. 321 (CH. RT. 4) SEC. 47 B
 IROQUOIS COUNTY
 STATION 169+7000
 WALTER E. HANSON & COMPANY
 ENGINEERS - CONSULTANTS

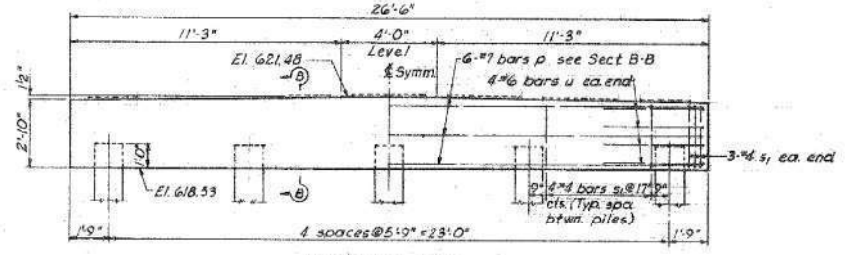
DESIGNED BY: T.E.B. CHECKED BY: T.F.S.
 DATE: April 28, 1961 H-40-28

EXISTING PLANS
 IROQUOIS COUNTY
 SECTION 11-00047-01-BR
 COUNTY HIGHWAY 4
 OVER PIKE CREEK

SHEET NO. 2 3 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	21
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		



ELEVATION-ABUTMENT

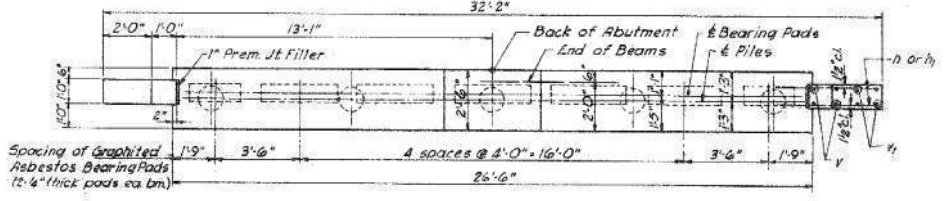


ELEVATION-PIER

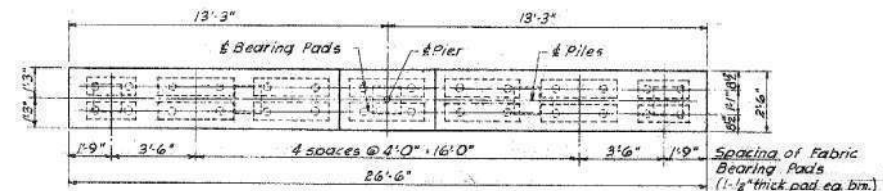
PILE DATA

	ABUTMENTS	PIERS
Type	Crescoted	Concrete
No Required	10	10
Min Capacity	20 ton	30 ton
Est Length	28 ft	40 ft

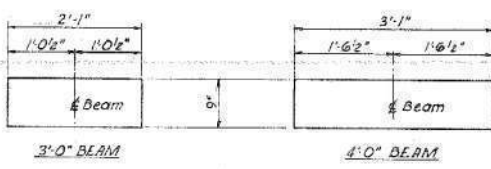
* Includes one test pile



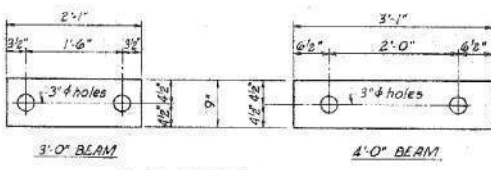
PLAN-ABUTMENT



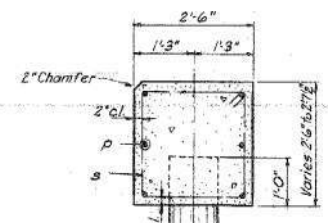
PLAN-PIER



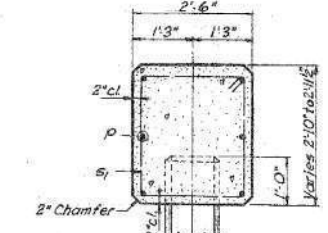
PLAN-GRAPHITED ASBESTOS BEARING PAD
See Special Provisions



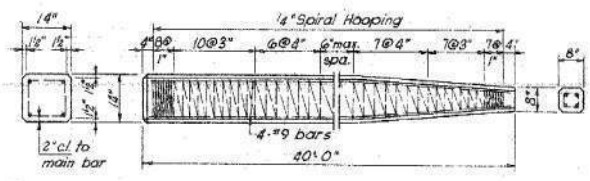
PLAN-FABRIC BEARING PAD
See Special Provisions



SECTION A-A

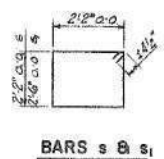


SECTION B-B

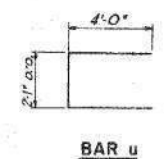


PRECAST CONCRETE PILE DETAILS

Note to Contractor:
For pile lengths up to 45 ft use two slings placed at a distance of 0.21L from each end. On piles longer than 45 ft use three slings placed at 0.21L from each end and at mid point of pile.



BARS s & s1



BAR u

BILL OF MATERIAL
2 ABUTS. & 2 PIERS

BAR	NO	SIZE	LENGTH	SHAPE
h	32	#4	4'-6"	—
h	24	#4	2'-9"	—
p	24	#7	26'-2"	—
s	44	#4	9'-5"	□
s1	44	#4	10'-7"	□
u	32	#6	10'-7"	—
v	16	#4	4'-2"	—
w	16	#4	3'-7"	—

Class X Concrete cu yds 280
Reinforcement Bars Lbs 2570
Crescoted Piles Lin Ft 280
Test Piles (timber) Each 1
Precast Concrete Piles Lin Ft 360
Test Piles (concrete) Each 1

ABUTMENTS & PIERS
TREISCHER BRIDGE
F.A.S. RT. 321 (CH. RT. 4) SEC. 47B
IROQUOIS COUNTY
STATION 169+70.00
WALTER E. HANSON & COMPANY
ENGINEERS - CONSULTANTS
DRAWN: R.E.O. CHECKED: V.F.S.
DATE: 2-23-78 11-60-28

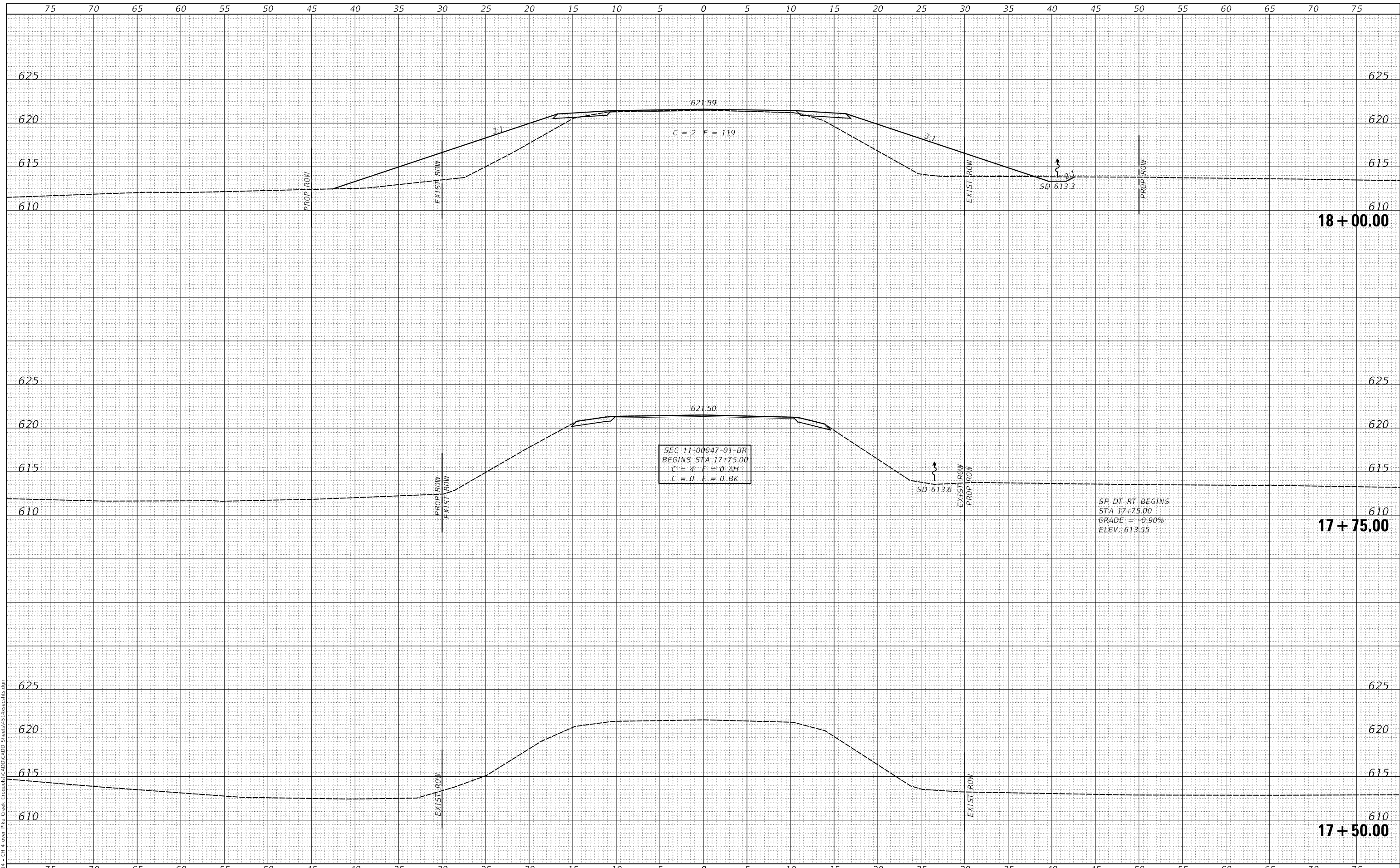
EXISTING PLANS
IROQUOIS COUNTY
SECTION 11-00047-01-BR
COUNTY HIGHWAY 4
OVER PIKE CREEK

SHEET NO. 3 3 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	321	11-00047-01-BR	IROQUOIS	27	22
	S.N. 038-4509		CONTRACT NO. 87725		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. F35F(323)		

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

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

MODEL: S:\MODEL\MEMES
FILE NAME: V:\311 - Ch 4 Over Pike Creek (Iroquois CAD)\CADD Sheets\431\431.rvt



USER NAME = smierzwa	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

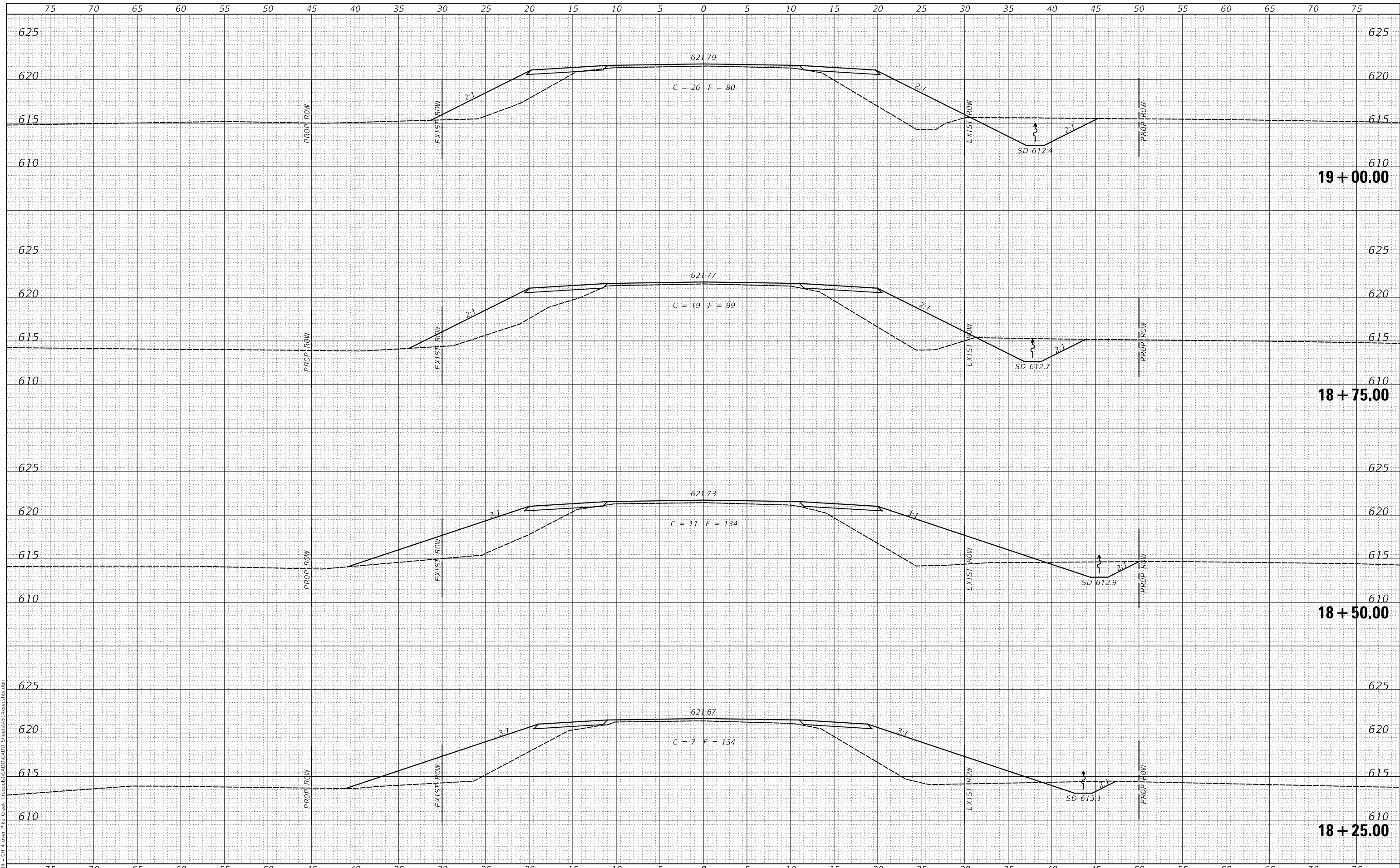
CROSS SECTIONS	
SCALE: 1"=5'	SHEET 1 OF 5 SHEETS
STA. 17+50.00	TO STA. 18+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	23
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87725	
			FED. AID PROJECT NO. F35F(323)	

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	

MODEL: S:\MODEL\MAMES
 FILE NAME: V:\311 - Ch 4 Over Pike Creek - Iroquois\CADD\CADD Sheets\43 Ixvscrs18.dgn



USER NAME = smierzwa	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED - _____

**IROQUOIS COUNTY
 COUNTY HIGHWAY 4
 OVER PIKE CREEK**

CROSS SECTIONS

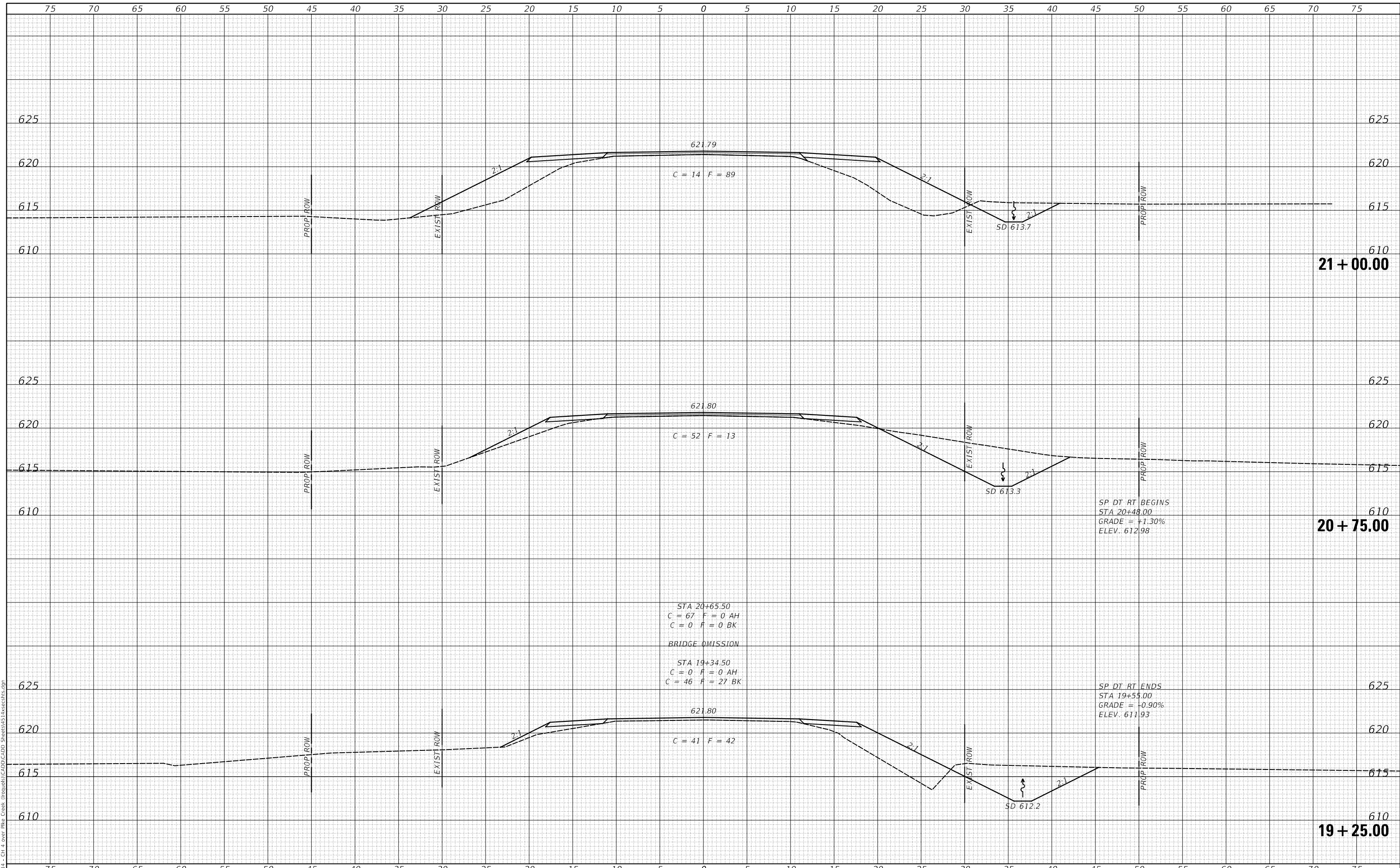
SCALE: 1"=5' SHEET 2 OF 5 SHEETS STA. 18+25.00 TO STA. 19+00.00

F.A.S. RTE. 321	SECTION 11-00047-01-BR	COUNTY IROQUOIS	TOTAL SHEETS 27	SHEET NO. 24
FED. ROAD DIST. NO. 7 ILLINOIS		CONTRACT NO. 87725		
FED. AID PROJECT NO. F35F(323)				

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

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

MODEL: SPODELINAMES
FILE NAME: V:\311 - Ch 4 Over Pike Creek (Iroquois)CAD\CADD Sheets\431\431.rvt



USER NAME	= SMierzwa	DESIGNED	- MMO	REVISED	-
		DRAWN	- MMO	REVISED	-
PLOT SCALE	= 10.0000' / in.	CHECKED	- STM	REVISED	-
PLOT DATE	= 2/15/2021	DATE	- 2/15/2021	REVISED	-

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

CROSS SECTIONS

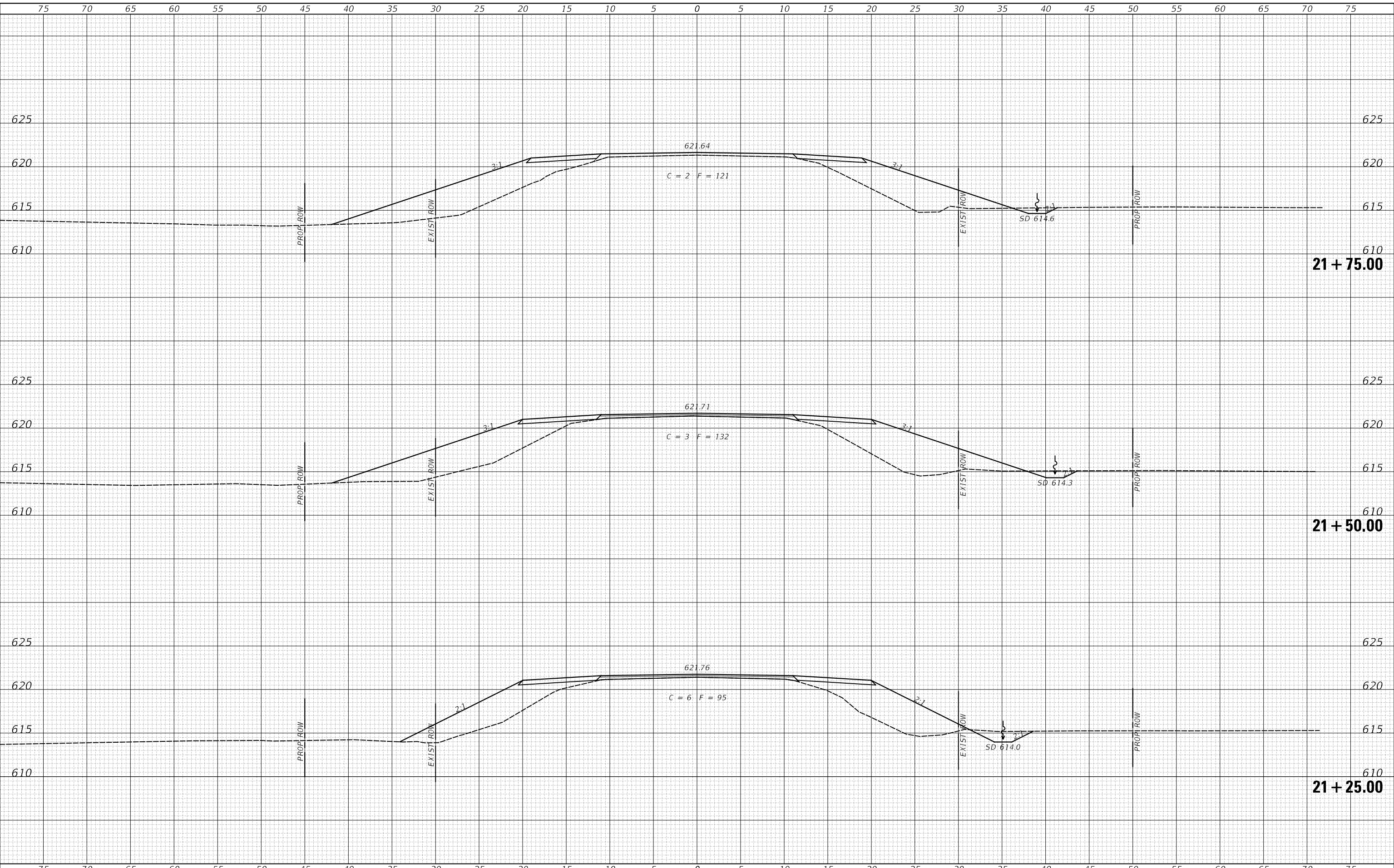
SCALE: 1"=5' SHEET 3 OF 5 SHEETS STA. 19+25.00 TO STA. 21+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	25
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87725	
			FED. AID PROJECT NO. F35F(323)	

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	

MODEL: S:\MODEL\MMS
FILE NAME: V:\311 - Ch 4 Over Pike Creek (Iroquois County) - Sheets\431\431.rvt



USER NAME = smierzwa	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

CROSS SECTIONS

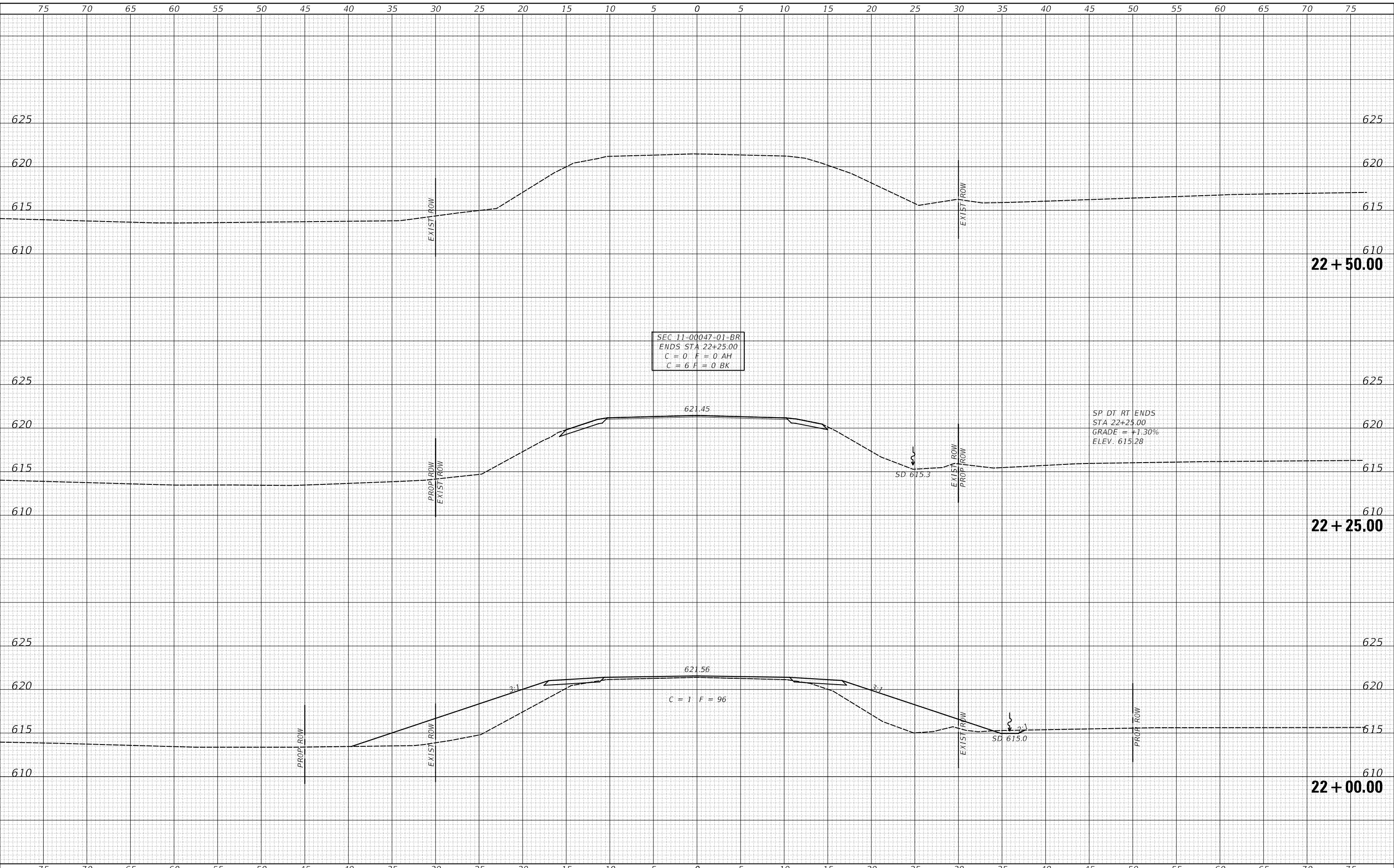
SCALE: 1"=5' SHEET 4 OF 5 SHEETS STA. 21+25.00 TO STA. 21+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	26
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87725	
			FED. AID PROJECT NO. F35F(323)	

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

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

MODEL: S:\MODEL\MMS
FILE NAME: V:\311 - Ch 4 Over Pike Creek (Iroquois)\CADD\CADD Sheets\431\431.rvt



SEC 11-00047-01-BR
ENDS STA: 22+25.00
C = 0 F = 0 AH
C = 6 F = 0 BK

SP DT RT ENDS
STA 22+25.00
GRADE = +1.30%
ELEV. 615.28

C = 7 F = 96

**IROQUOIS COUNTY
COUNTY HIGHWAY 4
OVER PIKE CREEK**

CROSS SECTIONS

USER NAME = smierzwa	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 2/15/2021	DATE - 2/15/2021	REVISED - _____

SCALE: 1"=5' SHEET 5 OF 5 SHEETS STA. 22+00.00 TO STA. 22+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321	11-00047-01-BR	IROQUOIS	27	27
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87725	
FED. AID PROJECT NO. F35F(323)				