

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	1
FED. ROAD DIST. NO. 7 ILLINOIS		CONTRACT NO. 89474		

SHEET NO. DESCRIPTION

- 1 COVER SHEET
- 2 GENERAL NOTES, TYPICAL SECTIONS, PAVEMENT DESIGN INFORMATION, DETAILS
- 3 SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
- 4 TRAFFIC CONTROL PLAN
- 5 EROSION CONTROL PLAN
- 6 PLAN AND PROFILE
- 7-14 STRUCTURE PLANS
- 15-19 CROSS SECTIONS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM-BRIDGE

KNOX COUNTY

SECTION 07-00017-01-BR

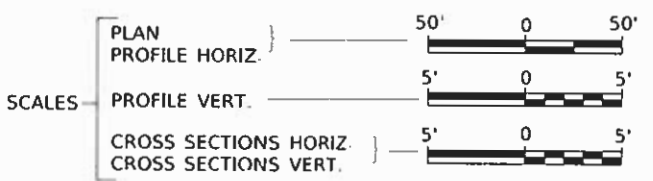
F.A.S. 393 (C.H. 4) OVER WALNUT CREEK

PROJECT NO. 9WLA(727)

JOB NUMBER C-94-076-07

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 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" HEIGHT
- BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A



PROPOSED STRUCTURE SN 048-3393
THREE SPAN REINFORCED CONCRETE SLAB SUPERSTRUCTURE ON CONCRETE ENCASED PILE BENT PIERS AND CONCRETE INTEGRAL ABUTMENTS, 94'-0" BK TO BK, AND 28'-0" O TO O DECK, NO SKEW

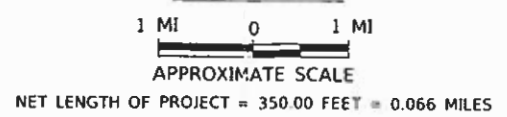


SECTION 07-00017-01-BR BEGINS STATION 18+25.00

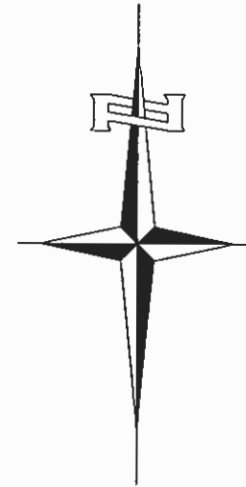
SECTION 07-00017-01-BR ENDS STATION 21+75.00

EXISTING STRUCTURE SN 048-3001
THREE SPAN PRECAST NELSON BEAM SUPERSTRUCTURE ON TIMBER PILE BENT ABUTMENTS WITH CONCRETE CAPS AND TIMBER LAGGING AND INDIVIDUAL CONCRETE PILE BENT PIERS WITH CONCRETE CAPS, 79'-0" BK TO BK, 26'-3" O TO O DECK, NO SKEW. (TO BE REMOVED)

LOCATION MAP



DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN ADT = 300 (2019)
40 MPH DESIGN SPEED



UTILITY COMPANIES

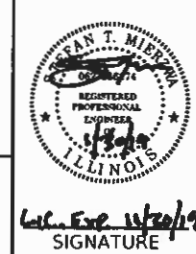
- ONEIDA TELEPHONE EXCHANGE
ONEIDA, ILLINOIS
- MID CENTURY TELEPHONE CO-OP
FAIRVIEW, ILLINOIS
- AMEREN ILLINOIS
BELLEVILLE, ILLINOIS

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

DIVISION of HIGHWAYS
Dept. of Transportation
FEB 13 2019
Region 3/District 4
RECEIVED
Local Roads

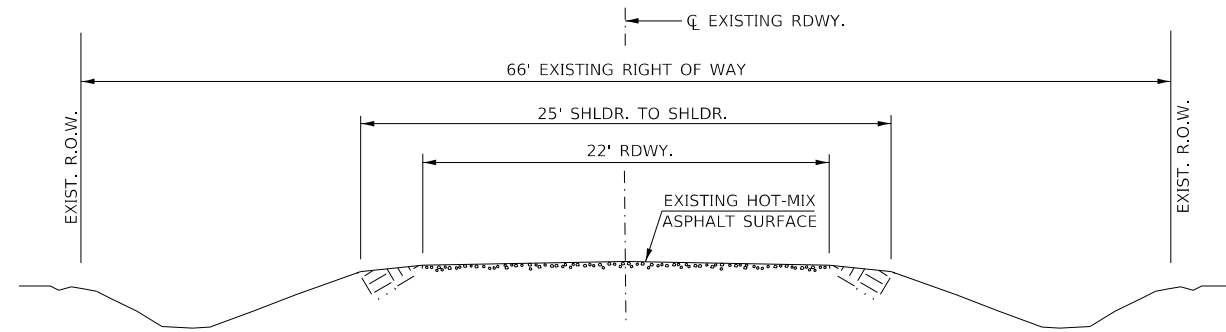
APPROVED	2/5	2019
<i>Shane J. Kattman</i> KNOX COUNTY ENGINEER		
PASSED	02-15-	2019
<i>J. J. J...</i> DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS		
Released For Bid Based on Limited Review	02-15-	2019
<i>Kensil A. Barnett</i> KSO REGION THREE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

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

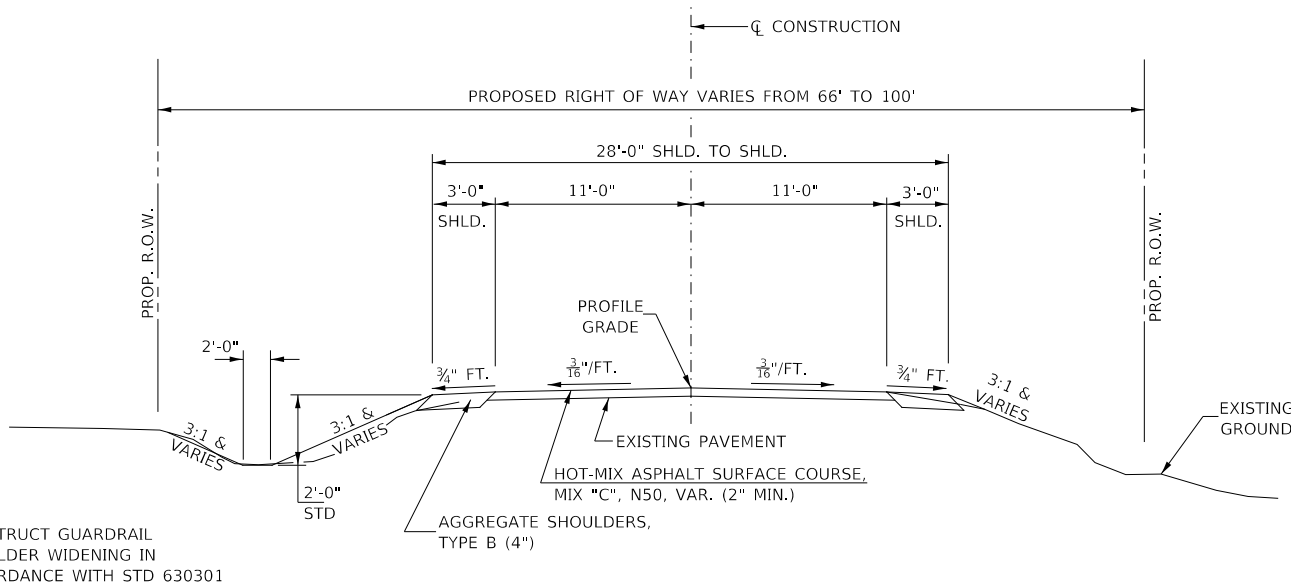


Evan T. Mierow
SIGNATURE

ENGINEERS SEAL



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

STA. 18+25.00 TO STA. 19+53.00
 STA. 20+47.00 TO STA. 21+75.00

EXCEPT TRANSITIONS

BRIDGE OMISSION
 STA. 19+53.00 TO STA. 20+47.00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATION(S):	STA. 18+25.00 TO STA. 19+53.00 & STA. 20+47.00 TO STA. 21+75.00
MIXTURE USE(S):	SURFACE
AC/PG:	PG 64-22
DESIGN AIR VOIDS:	4% @ N50
MIX COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIXTURE "C"
MIXTURE WEIGHT:	112#/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A
NUMBER OF ROLLER PASSES:	N/A

If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.

COMMITMENTS

THE KNOX COUNTY HIGHWAY DEPARTMENT WILL LEVEL TREES MARKED FOR REMOVAL PRIOR TO APRIL 1ST. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING THE STUMPS AS PART OF THIS CONTRACT, TO BE PAID FOR AS STUMP REMOVAL ONLY. THE KNOX COUNTY HIGHWAY DEPARTMENT WILL FOLLOW IDOT DEPARTMENT POLICY D&E-18 PRESERVATION AND REPLACEMENT OF TREES.

GENERAL NOTES

PLAN QUANTITIES FOR STUMP REMOVAL HAVE BEEN BASED ON ALL TREES WITHIN THE PROPOSED RIGHT OF WAY. THE TREES WILL BE REMOVED PRIOR TO CONSTRUCTION BY OTHERS SUCH THAT THE STUMPS WILL REMAIN. THIS QUANTITY MAY BE REVISED DURING CONSTRUCTION, AT THE DIRECTION OF THE ENGINEER, BY DELETING FROM THE STUMP REMOVAL QUANTITIES, SUCH STUMPS 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.

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.

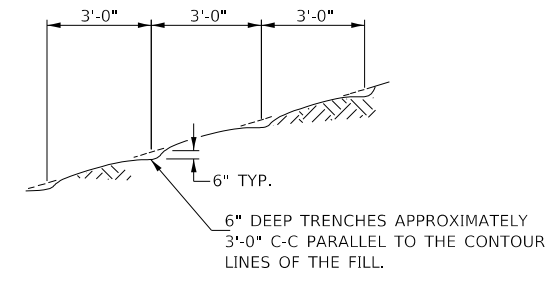
ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

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.

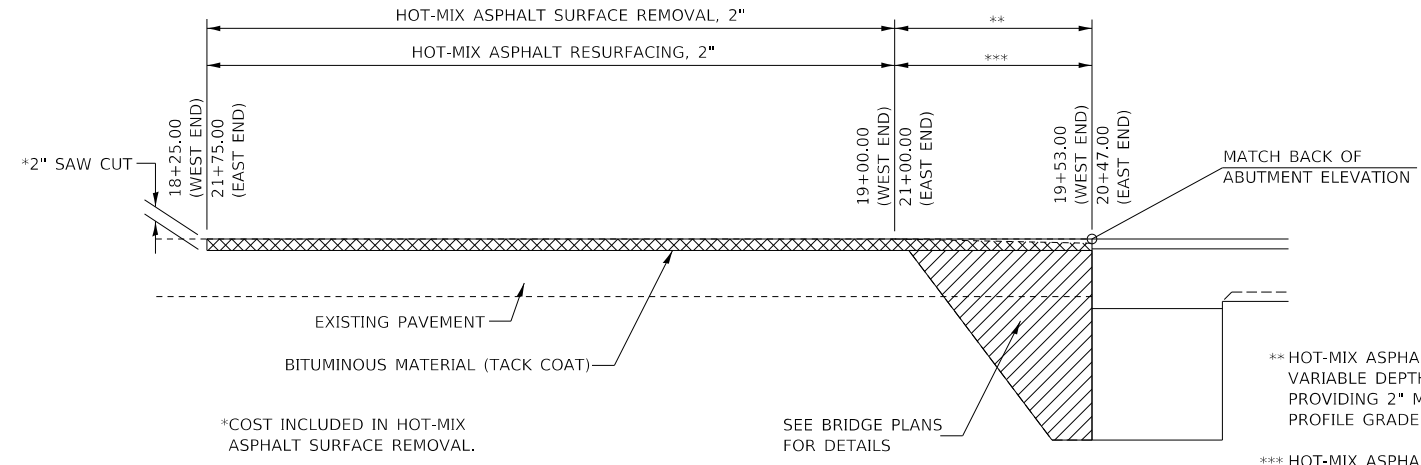
WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

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



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



HOT-MIX ASPHALT REMOVAL & RESURFACING DETAIL

MODEL: 4400BELMAME FILE NAME: 072021 - C1 4 Over Walnut Creek (Knox)CADDDCADD Sheets4361001.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/8/2019	DATE -	REVISED -

**KNOX COUNTY
 COUNTY HIGHWAY 4
 OVER WALNUT CREEK**

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

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 18+25.00 TO STA. 21+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	2
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	135
20300100	CHANNEL EXCAVATION	CU YD	600
20400800	FURNISHED EXCAVATION	CU YD	255
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250
28000305	TEMPORARY DITCH CHECKS	FOOT	72
28000400	PERIMETER EROSION BARRIER	FOOT	60
28100209	STONE RIPRAP, CLASS A5	TON	585
28200200	FILTER FABRIC	SQ YD	465
① 40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	286
① 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	70
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	355
48101200	AGGREGATE SHOULDERS, TYPE B	TON	47
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	125
50200300	COFFERDAM EXCAVATION	CU YD	170
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	115.0
① 50300255	CONCRETE SUPERSTRUCTURE	CU YD	135.6
50300260	BRIDGE DECK GROOVING	SQ YD	272
50300280	CONCRETE ENCASMENT	CU YD	11.6
50300300	PROTECTIVE COAT	SQ YD	323
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57,310
* 50900205	STEEL RAILING, TYPE S1	FOOT	188
51201400	FURNISHING STEEL PILES HP10X42	FOOT	171
51201600	FURNISHING STEEL PILES HP12X53	FOOT	330
51202305	DRIVING PILES	FOOT	171
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	60
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	35
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
* ① 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	120
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	788
① X2010400	STUMP REMOVAL ONLY	UNIT	440
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
① X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	248
① X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
① Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	93
① Z0065000	SETTING PILES IN ROCK	EACH	10

① SEE SPECIAL PROVISIONS

** SPECIALTY ITEMS*

TEMPORARY DITCH CHECKS		
STATION	SIDE	FOOT
18+80	LEFT	12
19+15	LEFT	12
19+67	RIGHT	12
19+69	LEFT	12
20+35	RIGHT	12
20+37	LEFT	12
TOTAL		72

TRAFFIC BARRIER TERMINAL, TYPE 5A			
STATION TO STATION	SIDE	EACH	
19+39.75	19+53.00	RIGHT	1
20+47.00	20+60.25	LEFT	1
TOTAL			2

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT			
STATION TO STATION	SIDE	EACH	
18+89.75	19+39.75	RIGHT	1
20+60.25	21+10.25	LEFT	1
TOTAL			2

STUMP REMOVAL ONLY							
STATION	OFFSET	SIDE	6 TO 15 UNITS	STATION	OFFSET	SIDE	6 TO 15 UNITS
18+64	31'	RIGHT	8	20+35	30'	RIGHT	6
18+64	31'	RIGHT	8	20+35	30'	RIGHT	6
18+64	31'	RIGHT	8	20+35	30'	RIGHT	6
18+64	31'	RIGHT	8	20+42	27'	RIGHT	8
18+64	31'	RIGHT	8	20+42	27'	RIGHT	8
18+65	31'	RIGHT	6	20+42	27'	RIGHT	8
18+65	31'	RIGHT	6	20+42	27'	RIGHT	8
18+65	31'	RIGHT	6	20+42	27'	RIGHT	8
19+23	33'	RIGHT	8	20+42	27'	RIGHT	8
19+23	33'	RIGHT	8	20+70	32'	RIGHT	8
19+23	33'	RIGHT	8	20+93	30'	RIGHT	15
19+52	34'	RIGHT	6	20+93	30'	RIGHT	15
19+52	34'	RIGHT	6	20+93	30'	RIGHT	15
19+52	34'	RIGHT	6	21+25	30'	RIGHT	8
19+52	34'	RIGHT	6	21+25	30'	RIGHT	8
19+61	33'	RIGHT	6	21+25	30'	RIGHT	8
19+61	33'	RIGHT	6	21+25	30'	RIGHT	8
19+74	31'	RIGHT	12	21+25	30'	RIGHT	8
19+74	31'	RIGHT	12	21+25	30'	RIGHT	8
19+75	30'	RIGHT	6	21+49	32'	RIGHT	6
19+75	30'	RIGHT	6	21+49	32'	RIGHT	6
19+75	30'	RIGHT	6	21+49	32'	RIGHT	6
20+35	30'	RIGHT	8	21+49	32'	RIGHT	6
20+35	30'	RIGHT	8	21+52	31'	RIGHT	8
20+35	30'	RIGHT	8	21+52	31'	RIGHT	8
20+35	30'	RIGHT	6	21+52	31'	RIGHT	8
TOTAL							440

EARTHWORK SUMMARY						
STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	COFFERDAM EXCAVATION	FILL	WASTE (SHORTAGE)
RDWY 18+25.00 - 19+53.00	80				221	(161)
RDWY 20+47.00 - 21+75.00	54				134	(94)
CHANNEL		600				
STRUCTURE			125			
COFFERDAM				170		
TOTAL	134	600	125	170	355	(255)
USE	135	600	125	170	-	(255)

(@ 25% SHRINKAGE)

PAVEMENT SCHEDULE					
STATION TO STATION	WIDTH	LENGTH	BITUMINOUS MATERIALS (TACK COAT)		HOT-MIX ASPHALT SURFACE COURSE,
			0.05 LBS/SQ FT	112#/SQ YD/IN	
			POUND	TON	
18+25.00	19+53.00	22.33'	128.00'	143	
20+47.00	21+75.00	22.33'	128.00'	143	
18+25.00	19+53.00	22.17'	128.00'		35
20+47.00	21+75.00	22.17'	128.00'		35
TOTAL				286	70

AGGREGATE SHOULDERS, TYPE B					
STATION TO STATION	SIDE	WIDTH	LENGTH	TON	
18+25.00	18+75.00	LEFT	1.95' AVG.	50.00'	2
18+25.00	18+51.50	RIGHT	2.03' AVG.	26.50'	1
18+51.50	18+79.75	RIGHT	4.69' AVG.	28.25	3
18+75.00	19+53.00	LEFT	3.00'	78.00'	5
18+79.75	19+14.75	RIGHT	7.00'	35.00'	6
19+14.75	19+39.75	RIGHT	6.88' AVG.	25.00'	4
19+39.75	19+53.00	RIGHT	5.38' AVG.	13.25'	2
20+47.00	20+60.25	LEFT	5.38' AVG.	13.25'	2
20+47.00	21+25.00	RIGHT	3.00'	78.00'	5
20+60.25	20+85.25	LEFT	6.88' AVG.	25.00'	4
20+85.25	21+20.25	LEFT	7.00'	35.00'	6
21+20.25	21+49.57	LEFT	4.54' AVG.	29.32'	3
21+25.00	21+75.00	RIGHT	2.29' AVG.	50.00'	3
21+49.57	21+75.00	LEFT	1.61' AVG.	25.43'	1
TOTAL					47

HOT-MIX ASPHALT SURFACE REMOVAL, 2"				
STATION TO STATION	WIDTH	LENGTH	SQ YD	
18+25.00	19+00.00	21.38' AVG.	75.00'	178
21+00.00	21+75.00	21.18' AVG.	75.00'	177
TOTAL				355

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH				
STATION TO STATION	WIDTH	LENGTH	SQ YD	
19+00.00	19+53.00	20.95' AVG.	53.00'	123
20+47.00	21+00.00	21.19' AVG.	53.00'	125
TOTAL				248

PAINT PAVEMENT MARKING - LINE 4"				
STATION TO STATION	SIDE	DESCRIPTION	FOOT	
18+25	21+75	LEFT	SOLID WHITE	350
18+25	21+75	CL	YELLOW SKIP DASH	88
18+25	21+75	RIGHT	SOLID WHITE	350
TOTAL				788

PERIMETER EROSION BARRIER			
STATION TO STATION	SIDE	FOOT	
18+25	18+50	LEFT	30
21+50	21+75	RIGHT	30
TOTAL			60

GUARDRAIL REMOVAL			
STATION TO STATION	SIDE	FOOT	
19+32	19+61	RIGHT	30
19+32	19+61	LEFT	30
20+39	20+68	RIGHT	30
20+39	20+68	LEFT	30
TOTAL			120

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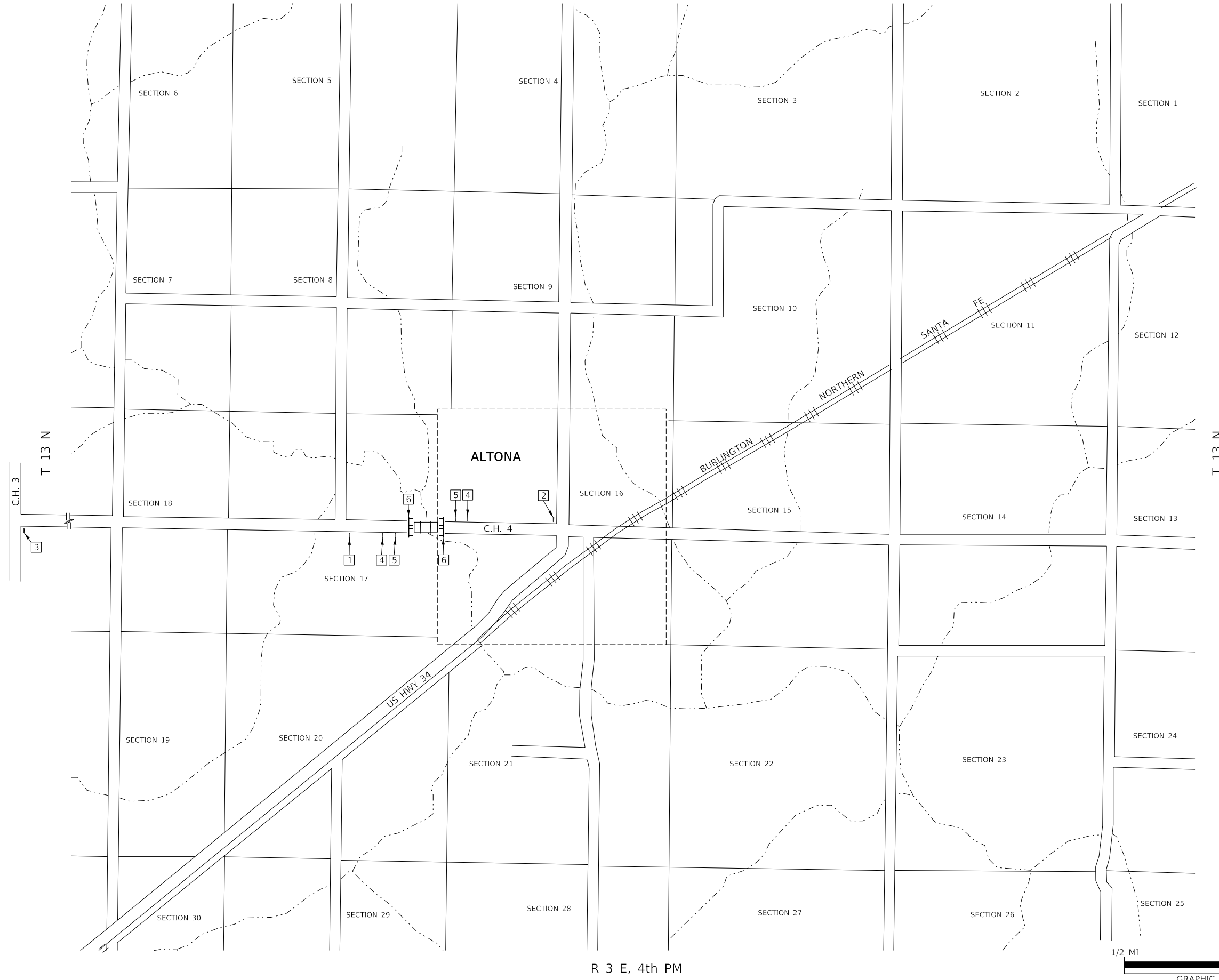
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	DATE -	REVISED -

**KNOX COUNTY
COUNTY HIGHWAY 4
OVER WALNUT CREEK**

**SUMMARY OF QUANTITIES,
SCHEDULES OF QUANTITIES**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 18+25.00 TO STA. 21+75.00	F.A.S. RTE. 393	SECTION 07-00017-01-BR	COUNTY KNOX	TOTAL SHEETS 19	SHEET NO. 3
					CONTRACT NO. 89474		
					FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)		

R 3 E, 4th PM



1 ROAD CLOSED 1/3 MILE AHEAD LOCAL TRAFFIC ONLY R11-3

2 ROAD CLOSED 2/3 MILE AHEAD LOCAL TRAFFIC ONLY R11-3

3 ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY R11-3

4 ROAD CLOSED AHEAD W20-3

5 ROAD CLOSED 500 FT W20-3

6 TYPE III BARRICADES

SEE STANDARD BLR 21 AND SPECIAL PROVISIONS

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PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/30/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**KNOX COUNTY
COUNTY HIGHWAY 4
OVER WALNUT CREEK**

TRAFFIC CONTROL PLAN

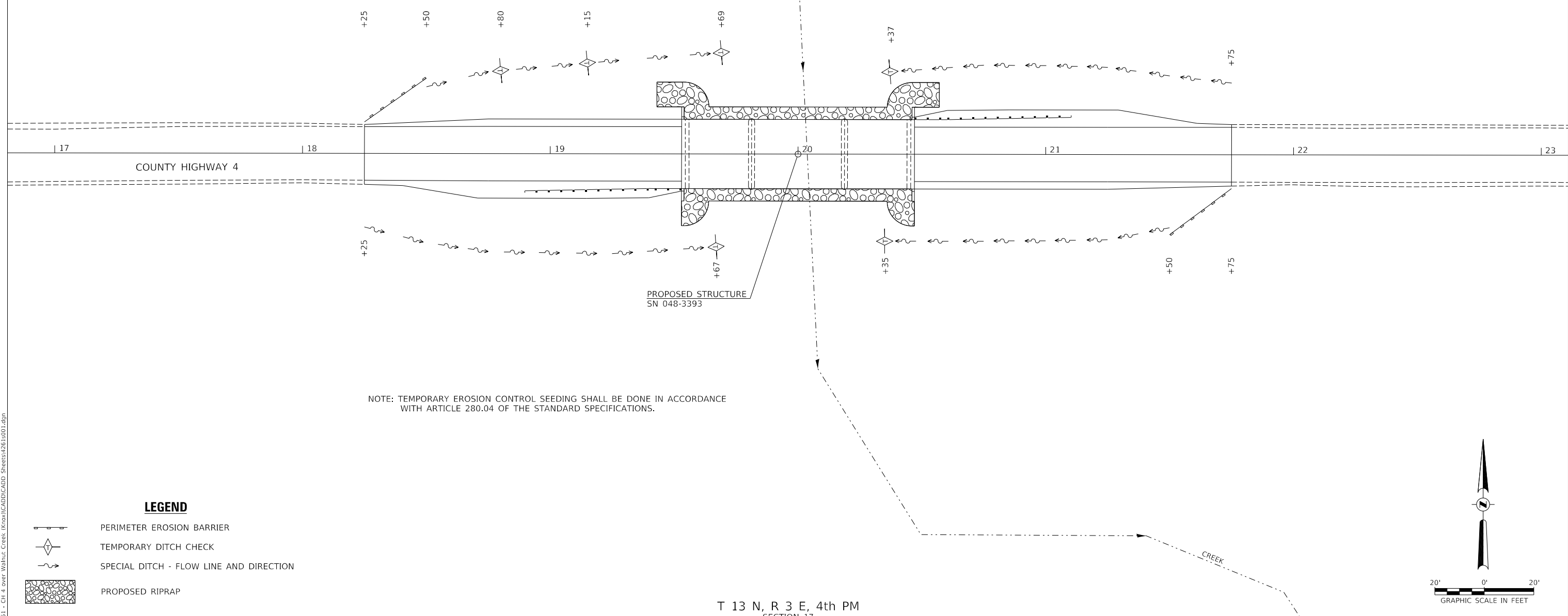
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 18+25.00 TO STA. 21+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	4
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA1727				

T 13 N, R 3 E, 4th PM
SECTION 17





WALNUT

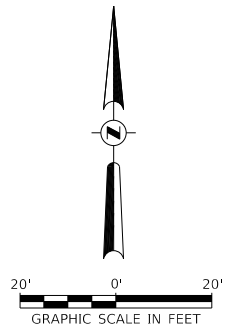
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NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.

LEGEND

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



T 13 N, R 3 E, 4th PM
SECTION 17

**KNOX COUNTY
COUNTY HIGHWAY 4
OVER WALNUT CREEK**

EROSION CONTROL PLAN

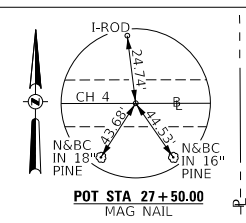
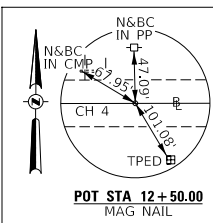
SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 18+25.00 TO STA. 21+75.00

USER NAME = SMierzwa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/30/2019	DATE -	REVISED -

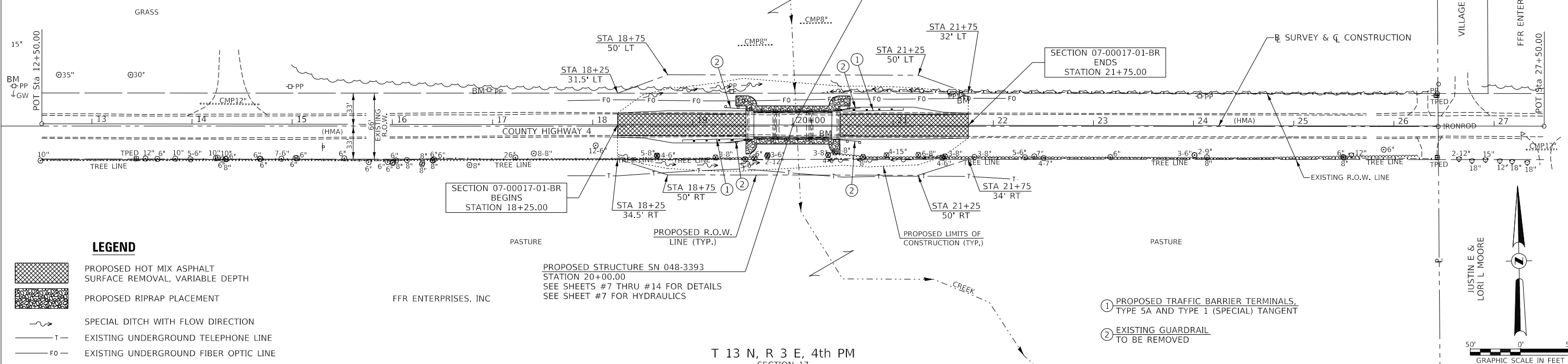
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	5
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. 9WLA(727)		

MODEL: 44001NAMM5
FILE NAME: 072017 - C1 - 4 over Walnut Creek (Knox)CADDD\CADD Sheets\4361001.dgn

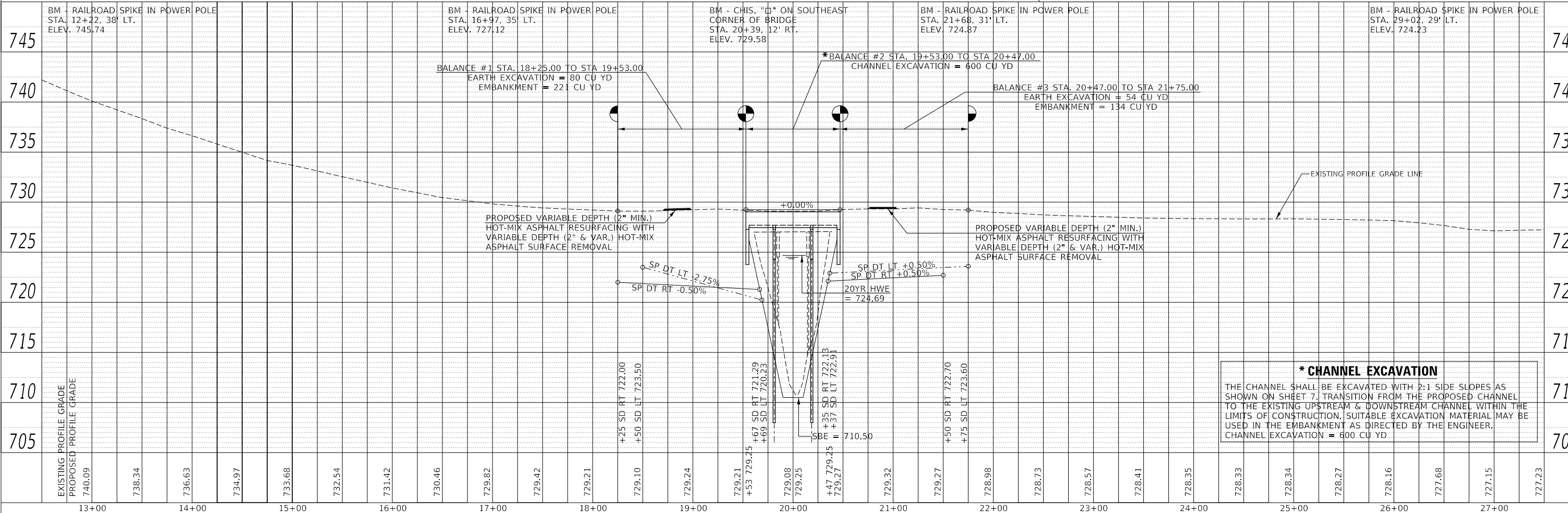
T 13 N, R 3 E, 4th PM
SECTION 17



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



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



*** CHANNEL EXCAVATION**
THE CHANNEL SHALL BE EXCAVATED WITH 2:1 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 MAY BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.
CHANNEL EXCAVATION = 600 CU YD

MODEL: SPODEL\MAMES
FILE NAME: V:\3261 - Ch 4 over Walnut Creek (Knox)\CADD\CADD Sheets\4261p001.dwg

USER NAME = SMierzwa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/30/2019	DATE -	REVISED -

**KNOX COUNTY
COUNTY HIGHWAY 4
OVER WALNUT CREEK**

PLAN AND PROFILE
SCALE: 1"=50'
SHEET NO. 1 OF 1 SHEETS
STA. 18+25.00 TO STA. 21+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	6
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				

B.M.: Railroad Spike in Power Pole
Sta. 16+97, 35' Lt.
Elev. 727.12

Railroad Spike in Power Pole
Sta. 21+68, 31' Lt.
Elev. 724.87

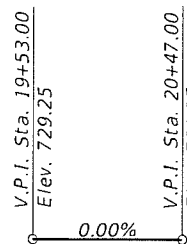
Note:
See Sheet 2 of 8 for General Notes
and Total Bill of Materials.

Existing Structure:

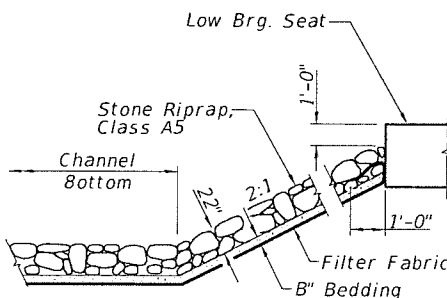
Three span nelson beam superstructure on timber pile bent abutments and exposed concrete pile piers. The structure is 79'-0" back to back of abutments, 26'-3" out to out of deck with a 24'-0" drivable width, and is not skewed. The structure was constructed in 1962. Str. No. 04B-3001

Salvage: None

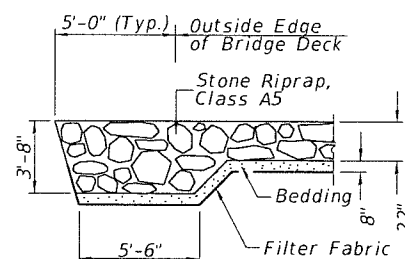
Road to be closed to traffic during construction.



PROFILE GRADE
County Highway 4



STONE RIPRAP DETAIL



SECTION A-A

WATERWAY INFORMATION

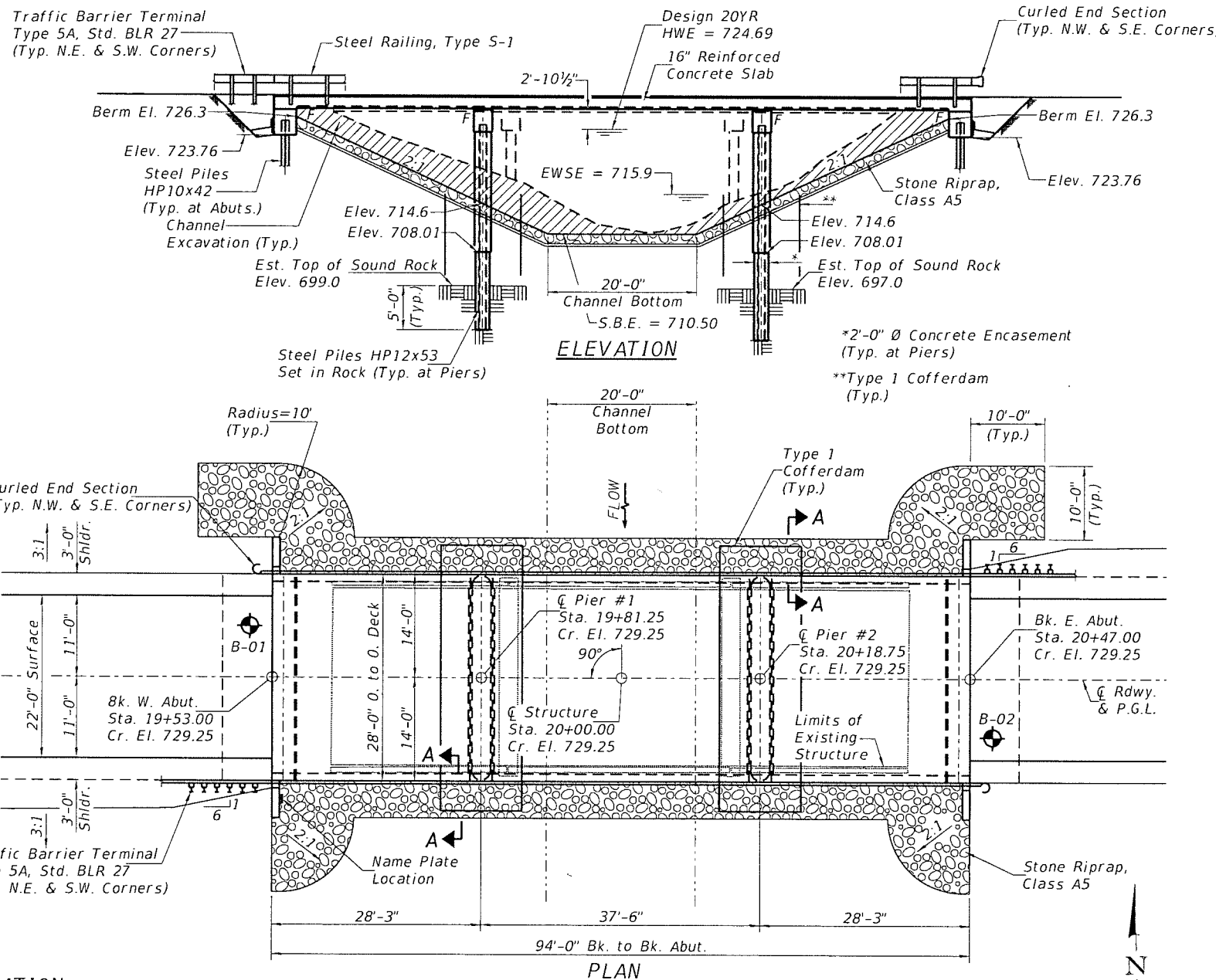
Drainage Area = 21.64 Sq. Mi.		Low Grade Elev. = 727.15 @ Sta. 27+00.00							
Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	3,428	495	677	724.69	0.70	0.51	725.39	725.20
Base	100	5,030	534	724	725.30	1.68	0.90	726.98	726.20

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

DESIGN SCOUR ELEVATION TABLE

	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	723.8	703.5	703.5	723.8	5
O200	723.8	704.4	704.4	723.8	
Design	723.8	703.5	703.5	723.8	
Check	723.8	704.4	704.4	723.8	

DESIGNED	CTM
CHECKED	BAN
DRAWN	CTM
CHECKED	BAN



PLAN

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{01}) = 0.070
Design Spectral Acceleration at 0.2 sec. (S_{05}) = 0.109
Soil Site Class = C

DESIGN STRESSES

(FIELD UNITS)
 f'_c = 3,500 p.s.i. (Substructure)
 f'_c = 5,000 p.s.i. (Superstructure)
 f_y = 60,000 p.s.i. (Reinforcement)

WALNUT CREEK
BUILT 20__ BY
KNOX COUNTY
SEC. 07-00017-01-BR
C.H. 4 STATION 20+00.00
F.A. PROJ. NO. 9WLA(727)
STR. NO. 048-3393 LOADING HL-93

NAME PLATE

Locate Name Plate at S.W. Wingwall
Corner of Bridge (See Std. 515001)

INDEX OF SHEETS

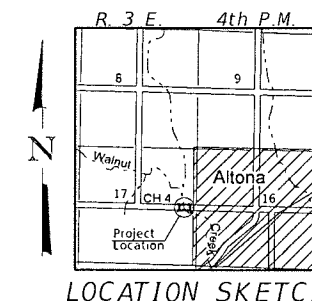
SH. #s	DESCRIPTION
1	General Plan and Elevation
2	General Notes, Details, Bill of Material & Footing Layout
3	Superstructure
4	Steel Railing, Type S-1
5	Rail Post Spacing
6	Abutments
7	Piers
8	HP Pile Details



Lic. Exp. 11/30/20

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.

Gregory T. Brown
Illinois Structural No. 7999
Expires 11/30/2020



LOCATION SKETCH

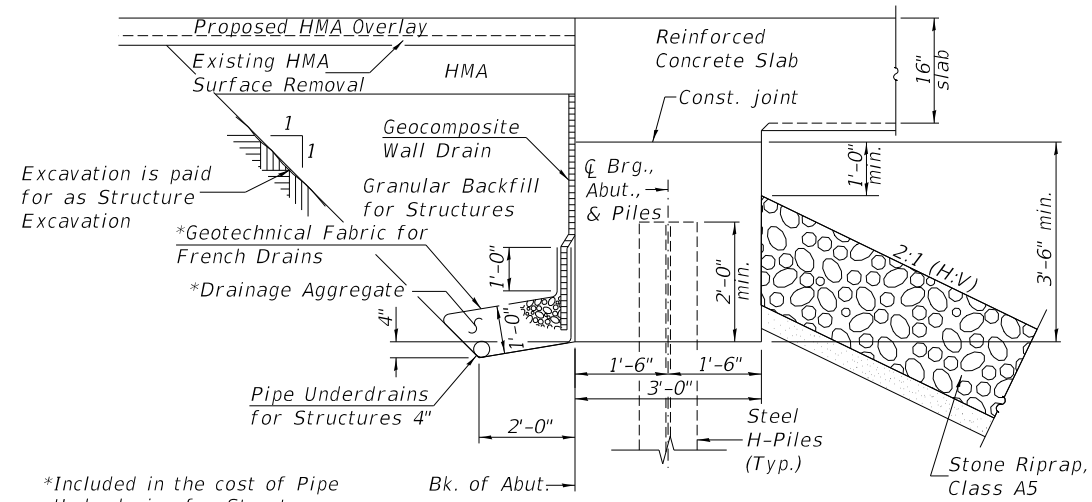
GENERAL PLAN & ELEVATION
KNOX COUNTY

SECTION 07-00017-01-BR
F.A.S. 393 (COUNTY HIGHWAY 4)
OVER WALNUT CREEK
STATION 20+00.00
STRUCTURE NO. 048-3393

SHEET NO. 1 8 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	393	07-00017-01-BR	KNOX	19	7
	S.N. 048-3393		CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		

GENERAL NOTES

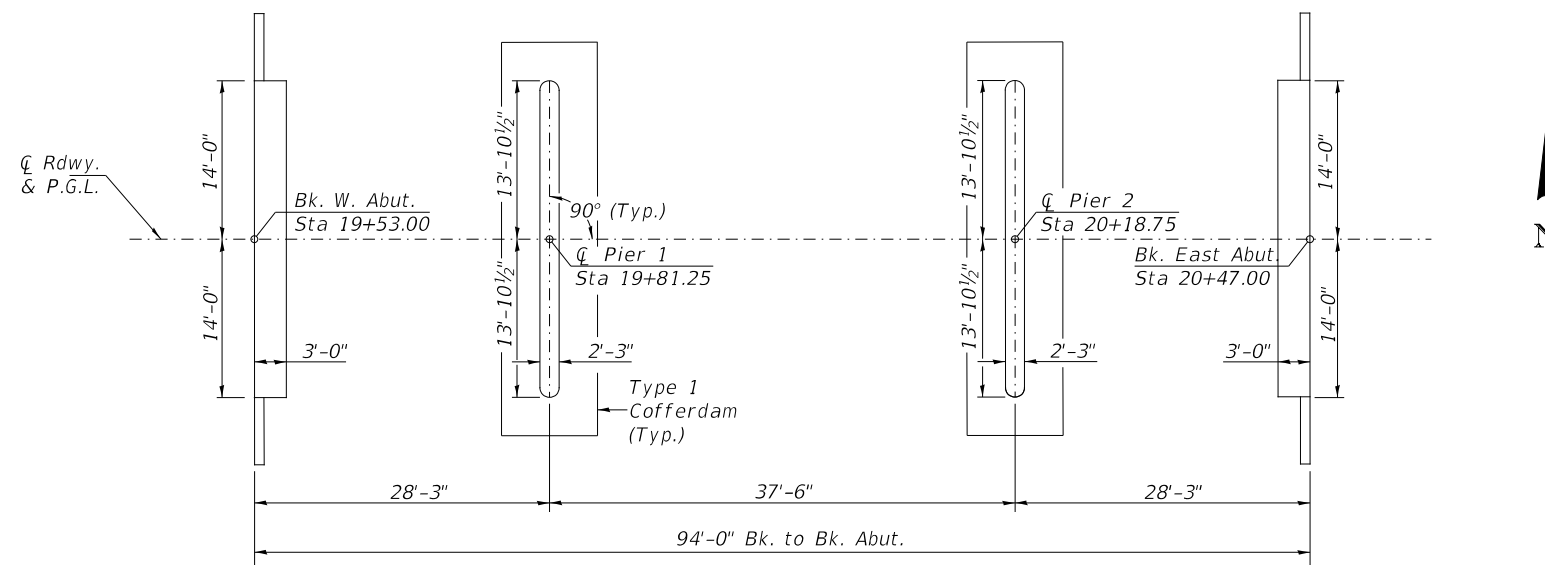
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
 For Soil Boring Logs, See Special Provisions.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Protective Coat shall be applied to the top and sides of the bridge deck.
 Bridge Deck Grooving is figured 1'-0" from the edge of the deck.
 The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.



SECTION THRU ABUTMENTS

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

Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into *concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



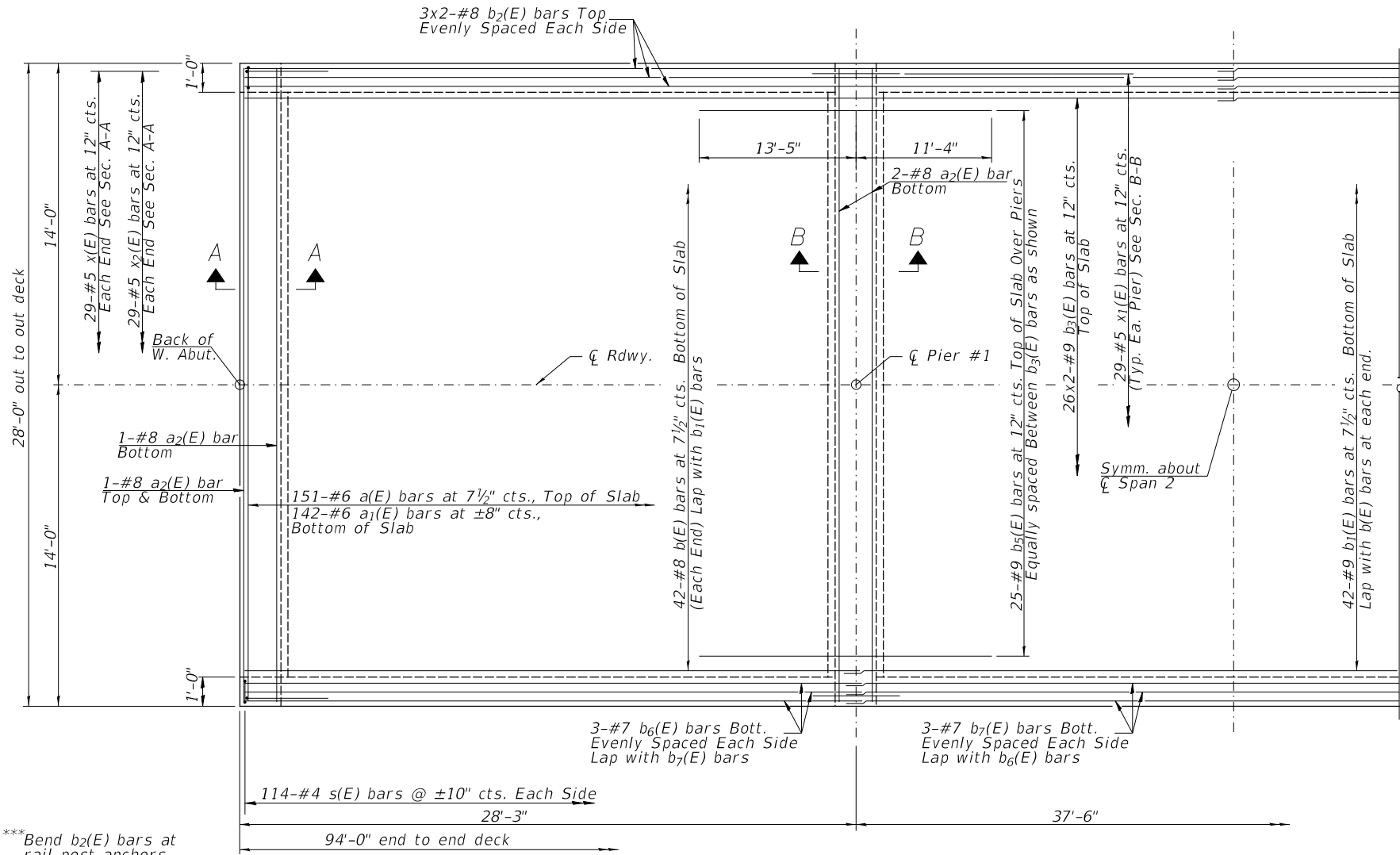
FOOTING LAYOUT

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	600	600
Stone Riprap, Class A5	TON	—	585	585
Filter Fabric	SQ YD	—	465	465
Granular Backfill for Structures	CU YD	—	60	60
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	125	125
Cofferdam Excavation	CU YD	—	170	170
Concrete Structures	CU YD	—	115.0	115.0
① Concrete Superstructure	CU YD	135.6	—	135.6
Concrete Encasement	CU YD	—	11.6	11.6
Bridge Deck Grooving	SQ YD	272	—	272
Protective Coat	SQ YD	323	—	323
Reinforcement Bars, Epoxy Coated	POUND	45,990	11,320	57,310
Steel Railing, Type S-1	FOOT	188	—	188
Furnishing Steel Piles HP10x42	FOOT	—	171	171
Furnishing Steel Piles HP12x53	FOOT	—	330	330
Driving Piles	FOOT	—	171	171
Test Pile Steel HP10x42	EACH	—	2	2
① Setting Piles in Rock	EACH	—	10	10
Geocomposite Wall Drain	SQ YD	—	35	35
① Pipe Underdrains for Structures 4"	FOOT	—	93	93
Name Plates	EACH	—	1	1
Cofferdam (Type 1) (Location-1) (Pier #1)	EACH	—	1	1
Cofferdam (Type 1) (Location-2) (Pier #2)	EACH	—	1	1
Terminal Marker - Direct Applied	EACH	2	—	2
① See Special Provisions				

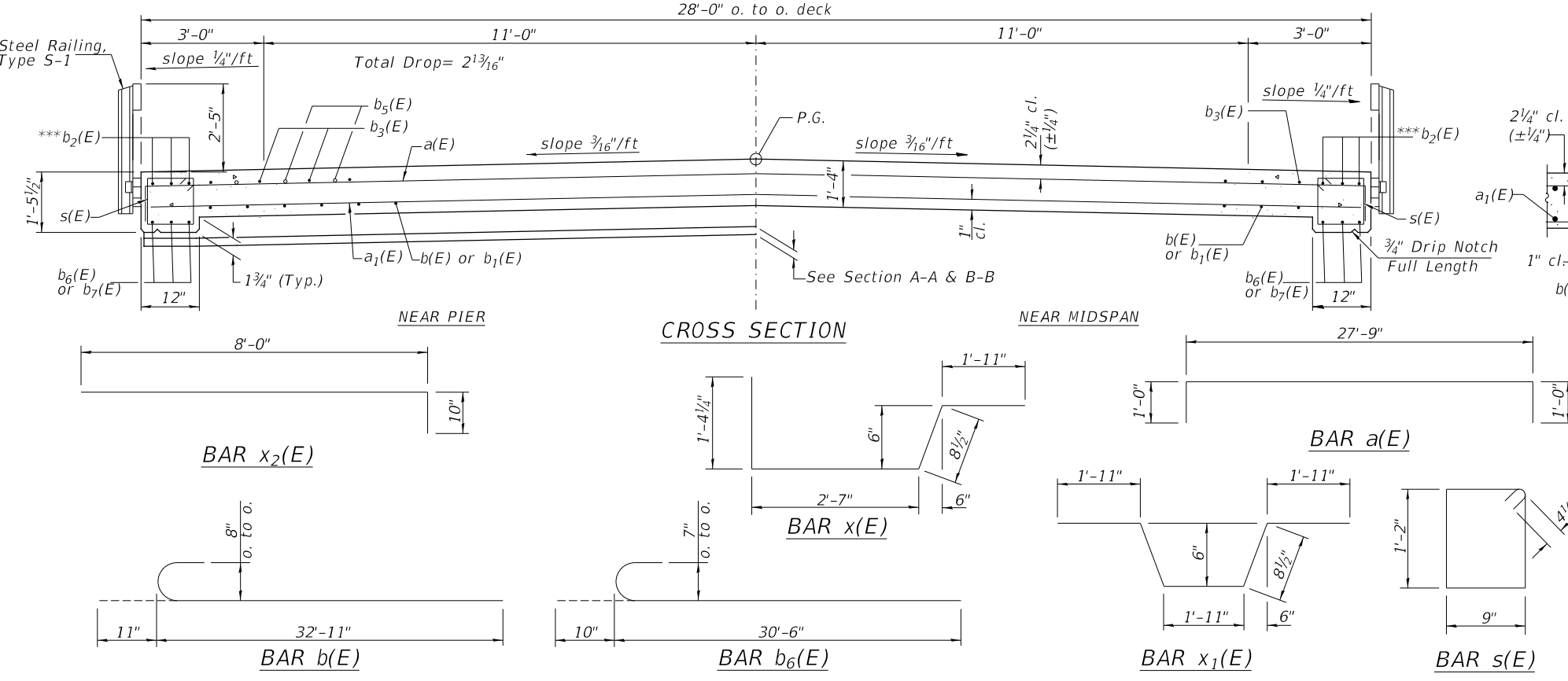
GENERAL NOTES, DETAILS, BILL OF MATERIAL & FOOTING LAYOUT
 KNOX COUNTY
 SECTION 07-00017-01-BR
 F.A.S. 393 (COUNTY HIGHWAY 4)
 OVER WALNUT CREEK

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8 SHEETS	393	07-00017-01-BR	KNOX	19	8
S.N. 048-3393		CONTRACT NO. 89474			
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		



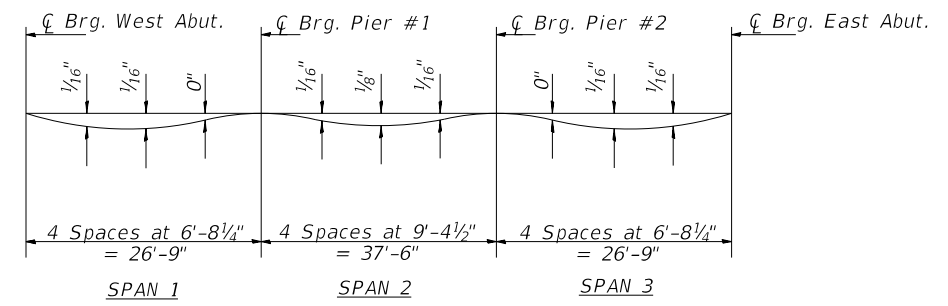
PARTIAL PLAN

*** Bend b₂(E) bars at rail post anchors to maintain cover.

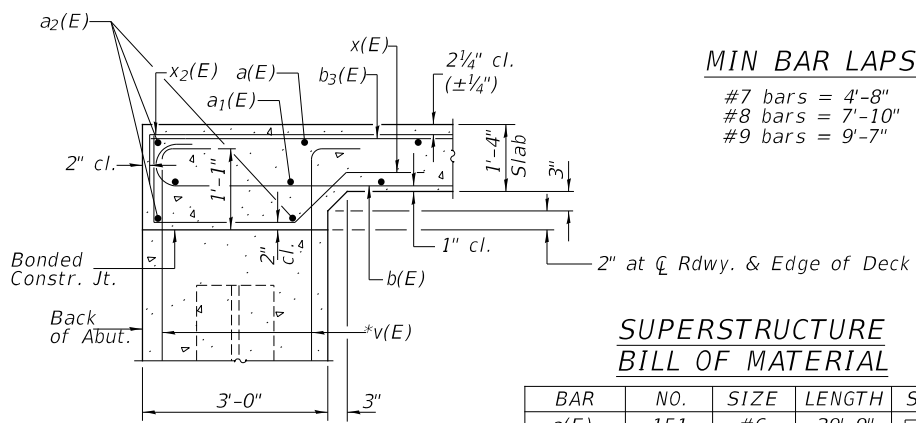


CROSS SECTION

Notes:
 Bars indicated thus 25x2 indicates 25 lines of bars with 2 lengths per line.
 See Sht. 4 of 8 for rail details.
 See Sht. 5 of 8 for rail post spacing.



DEAD LOAD DEFLECTION DIAGRAM
 (Includes weight of concrete slab)



SECTION A-A

*v(E) bars billed with abutments See sheets 6 of 8

MIN BAR LAPS
 #7 bars = 4'-8"
 #8 bars = 7'-10"
 #9 bars = 9'-7"

SUPERSTRUCTURE BILL OF MATERIAL

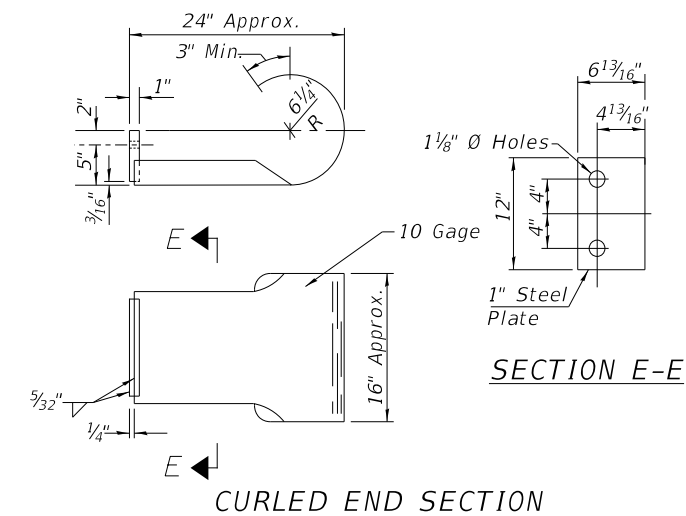
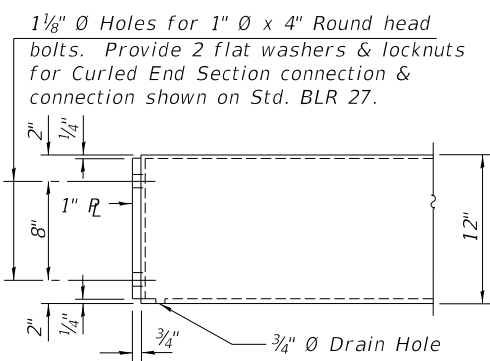
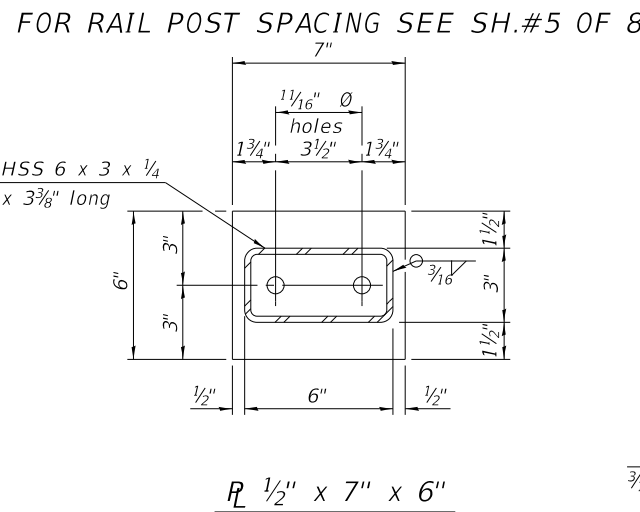
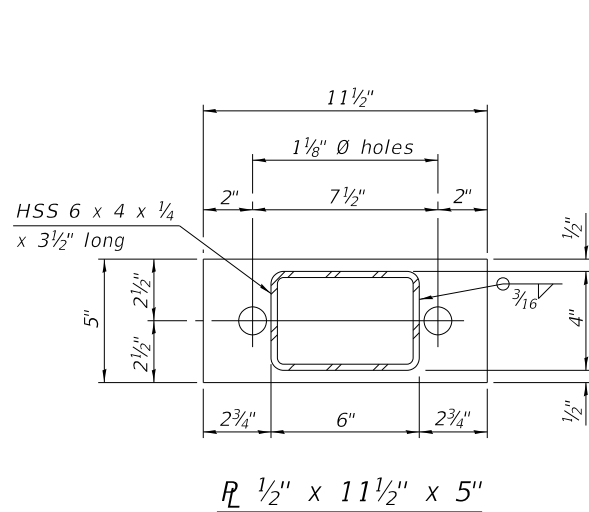
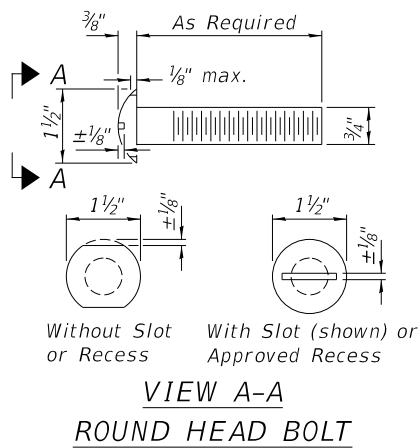
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	151	#6	29'-9"	□
a ₁ (E)	142	#6	27'-7"	□
a ₂ (E)	10	#8	27'-9"	□
b(E)	84	#8	33'-10"	□
b ₁ (E)	42	#9	47'-0"	□
b ₂ (E)	12	#8	50'-10"	□
b ₃ (E)	52	#9	51'-8"	□
b ₅ (E)	50	#9	24'-9"	□
b ₆ (E)	12	#7	31'-4"	□
b ₇ (E)	6	#7	42'-2"	□
s(E)	228	#4	4'-7"	□
x(E)	58	#5	6'-7"	□
x ₁ (E)	58	#5	7'-2"	□
x ₂ (E)	58	#5	8'-10"	□

① Concrete Superstructure	CU YD	135.6
Reinforcement Bars, Epoxy Coated	POUND	45,990

① See Special Provisions

SUPERSTRUCTURE
KNOX COUNTY
SECTION 17-00017-01-BR
F.A.S. 393 (COUNTY HIGHWAY 4)
OVER WALNUT CREEK

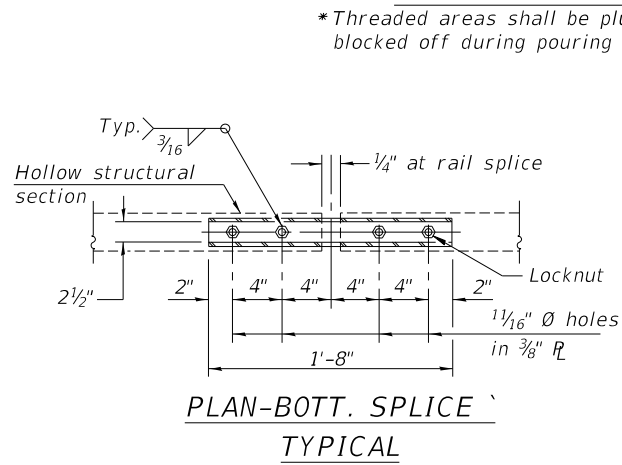
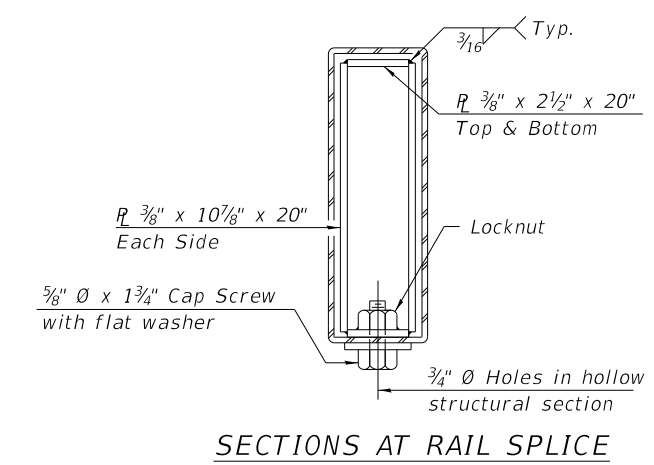
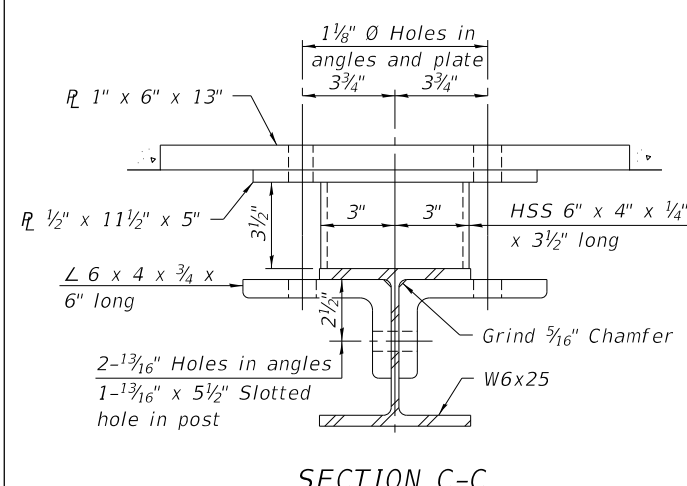
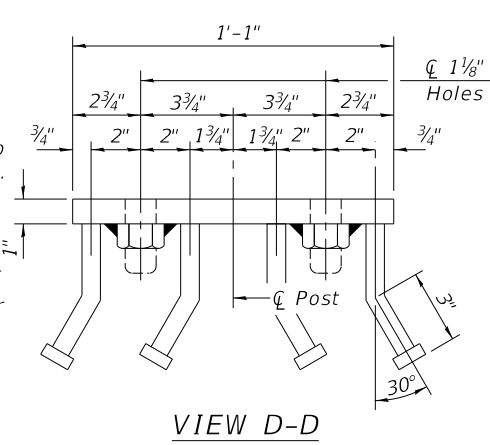
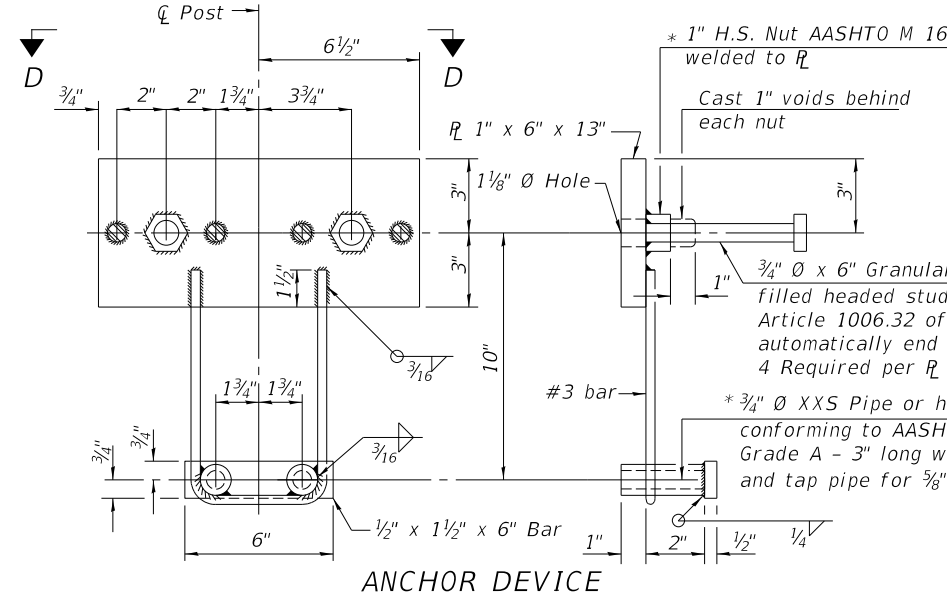
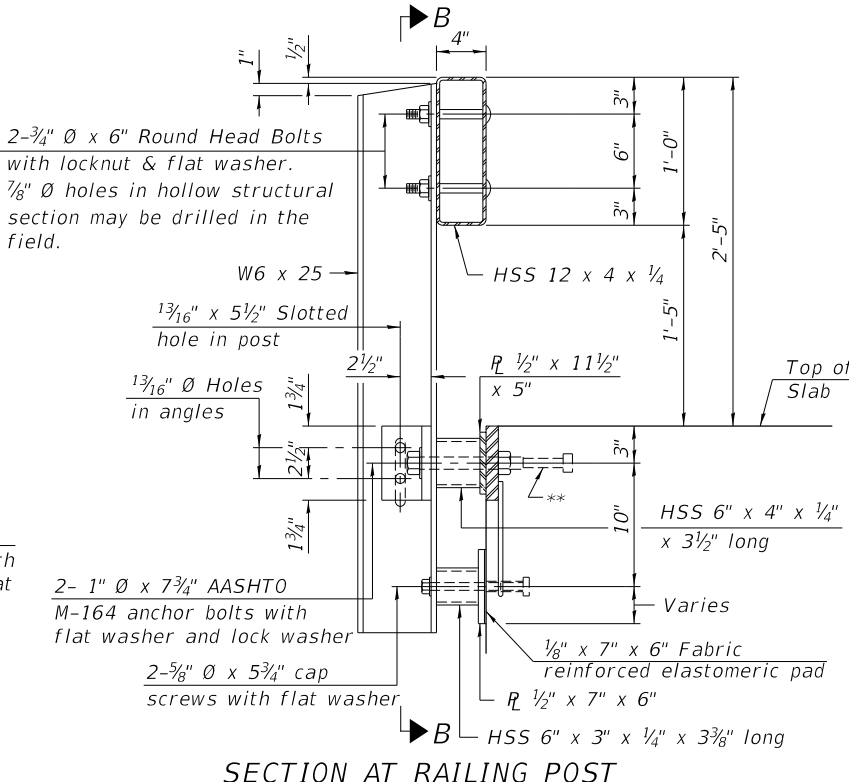
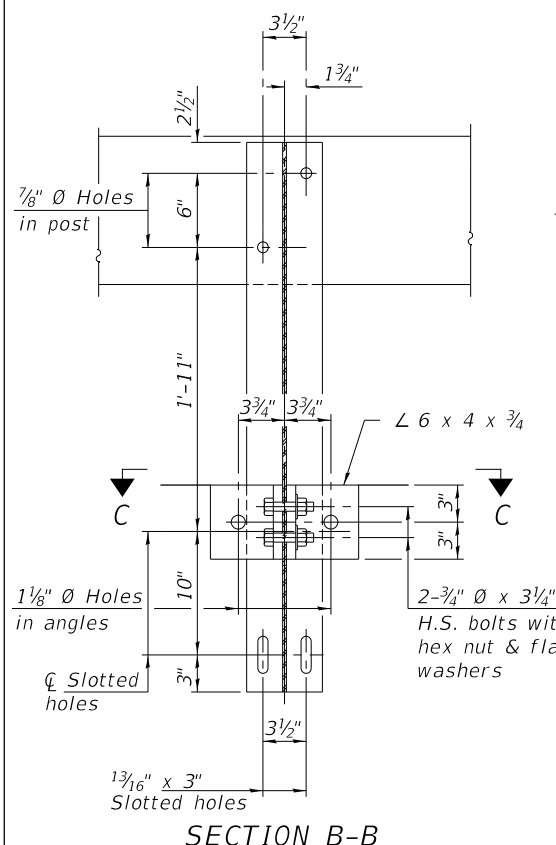
SHEET NO. 3 8 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	393	07-00017-01-BR	KNOX	19	9
	S.N. 048-3393		CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		



(2 Req'd) Cost Included with Steel Railing, Type S-1. Terminal Markers - Direct Applied shall be placed on end of each Curled End Section. (N.W. & S.E. Corners)

NOTES

For multi-span bridges, sufficient 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 S-1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. * The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



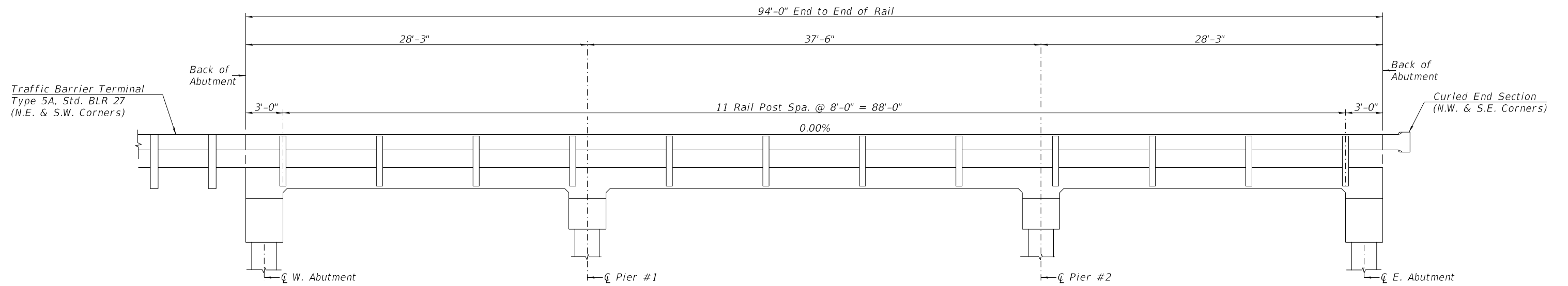
* Threaded areas shall be plugged or blocked off during pouring of slab.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type S-1	FOOT	188

**STEEL RAILING, TYPE S-1
KNOX COUNTY
SECTION 17-00017-01-BR
F.A.S. 393 (COUNTY HIGHWAY 4)
OVER WALNUT CREEK**

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	393	07-00017-01-BR	KNOX	19	10
8 SHEETS	S.N. 048-3393		CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		



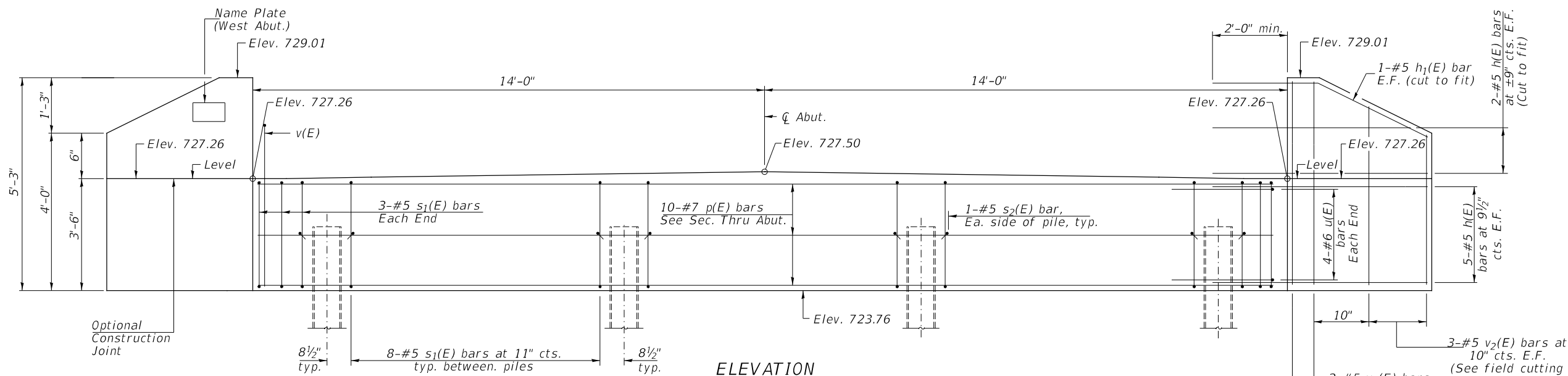
RAIL POST SPACING

RAIL POST SPACING
KNOX COUNTY
SECTION 17-00017-01-BR
F.A.S. 393 (COUNTY HIGHWAY 4)
OVER WALNUT CREEK

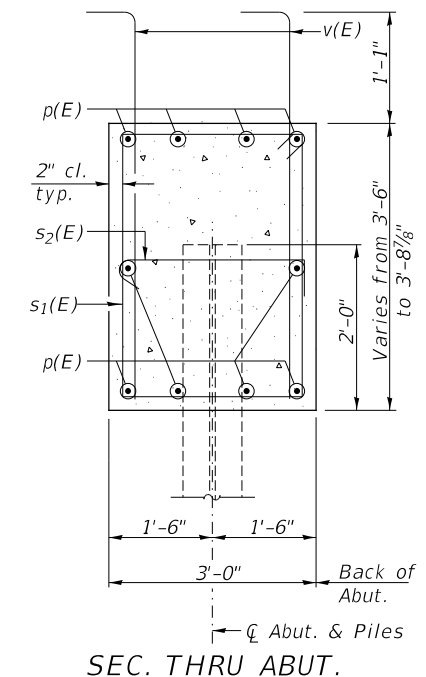
SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8 SHEETS	393	07-00017-01-BR	KNOX	19	11
S.N. 048-3393			CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		

NOTES

All edges shall have standard 3/4" chamfer.
See Sheet 8 of 8 for Pile Details.
EF: Each Face



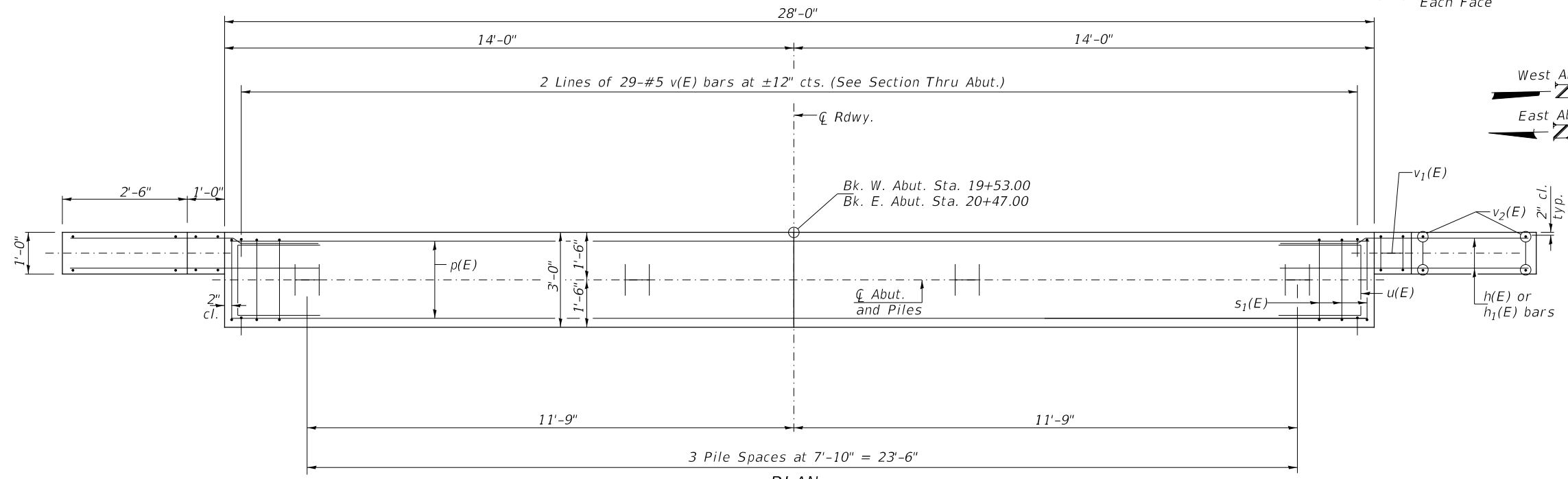
ELEVATION



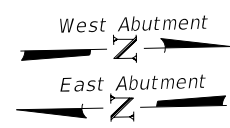
SEC. THRU ABUT.

**TWO ABUTMENTS
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	56	#5	6'-6"	—
h1(E)	8	#5	5'-8"	—
p(E)	20	#7	27'-8"	—
s1(E)	60	#5	12'-7"	□
s2(E)	16	#5	3'-8"	—
u(E)	16	#6	10'-3"	□
v(E)	116	#5	5'-3"	—
v1(E)	16	#5	4'-11"	—
v2(E)	12	#5	8'-2"	—
Structure Excavation			CU YD	125
Concrete Structures			CU YD	25.0
Reinforcement Bars, Epoxy Coated			POUND	3,470
Name Plates			EACH	1
Furnishing Steel Piles HP10x42			FOOT	171
Driving Piles			FOOT	171
Test Pile Steel HP10x42			EACH	2

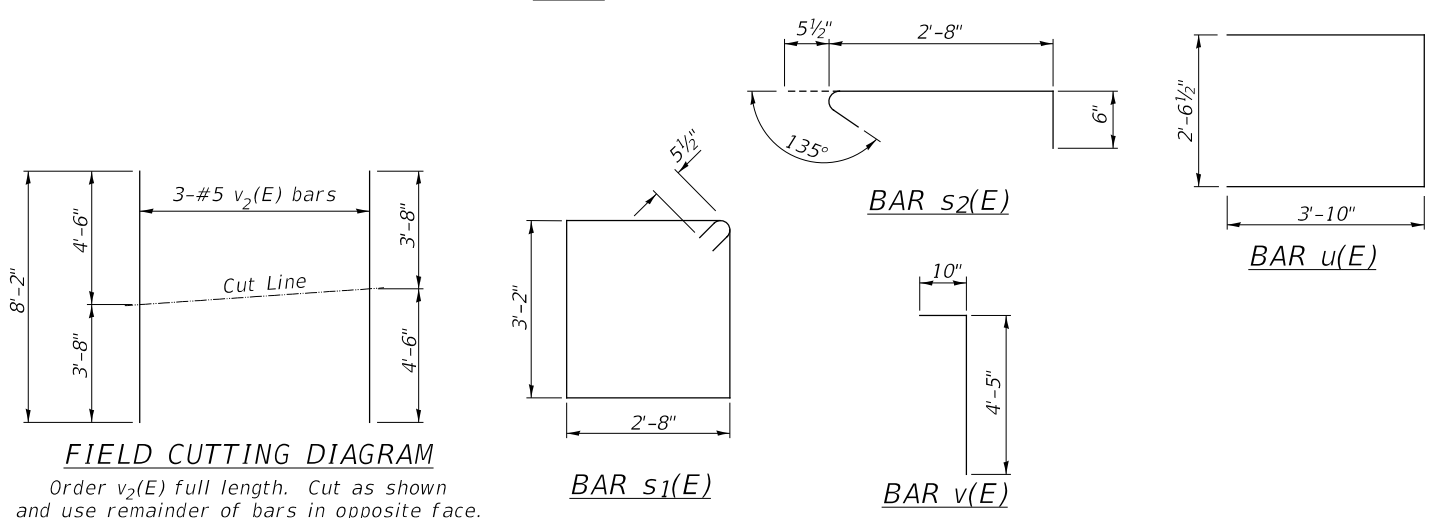


PLAN



PILE DATA

Type & Size: Steel HP 10x42
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Est. Length: 28' West Abutment
29' East Abutment
No. Req'd.: 8 (Includes 1 Test Pile at each abut.)



FIELD CUTTING DIAGRAM

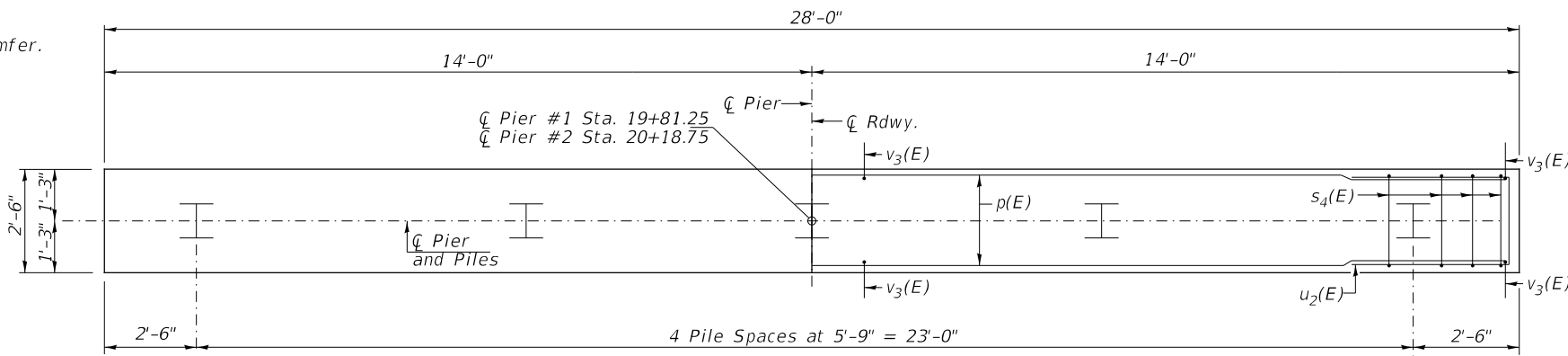
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

**ABUTMENTS
KNOX COUNTY
SECTION 17-00017-01-BR
F.A.S. 393 (COUNTY HIGHWAY 4)
OVER WALNUT CREEK**

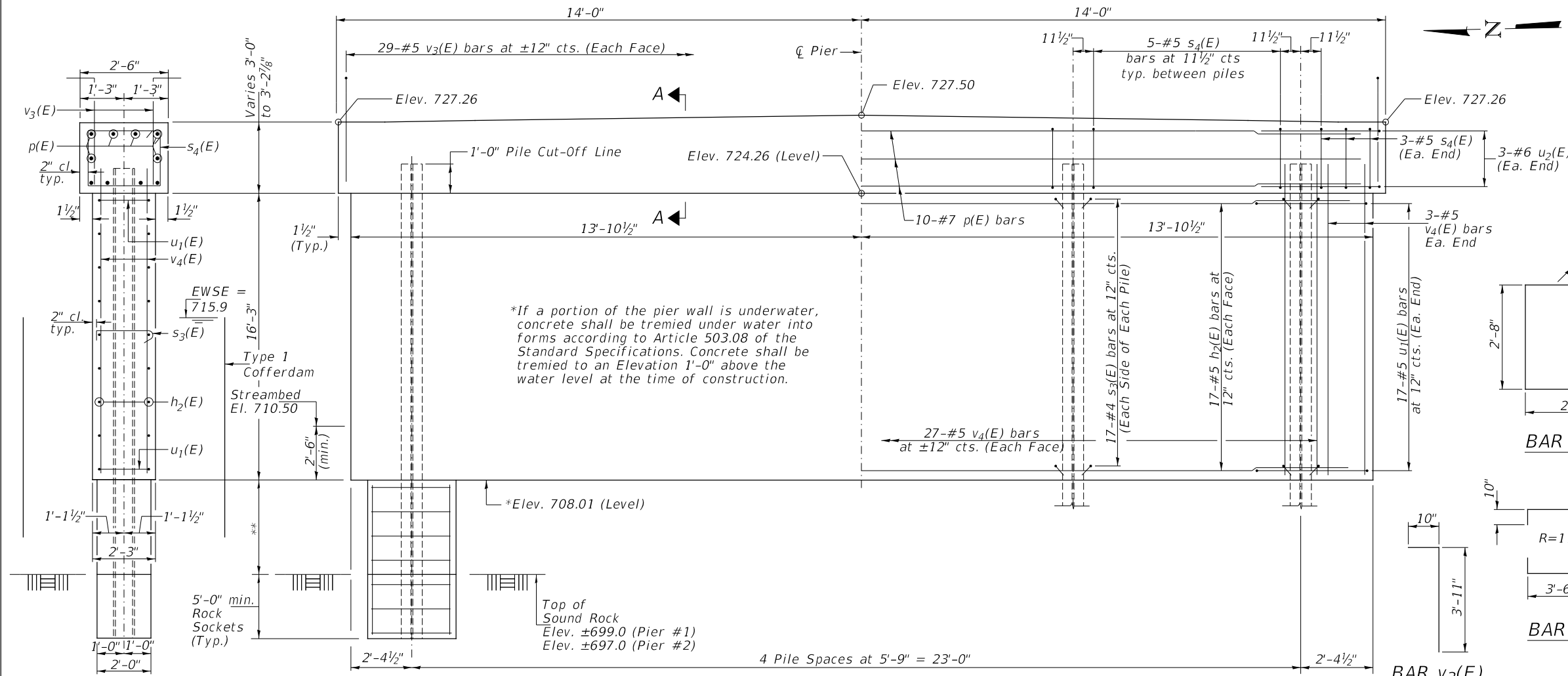
SHEET NO. 6 8 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	S.N. 048-3393		CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		

NOTES

All edges shall have standard 3/4" chamfer.
See Sheet 8 of 8 for Pile Details.



TOP PLAN

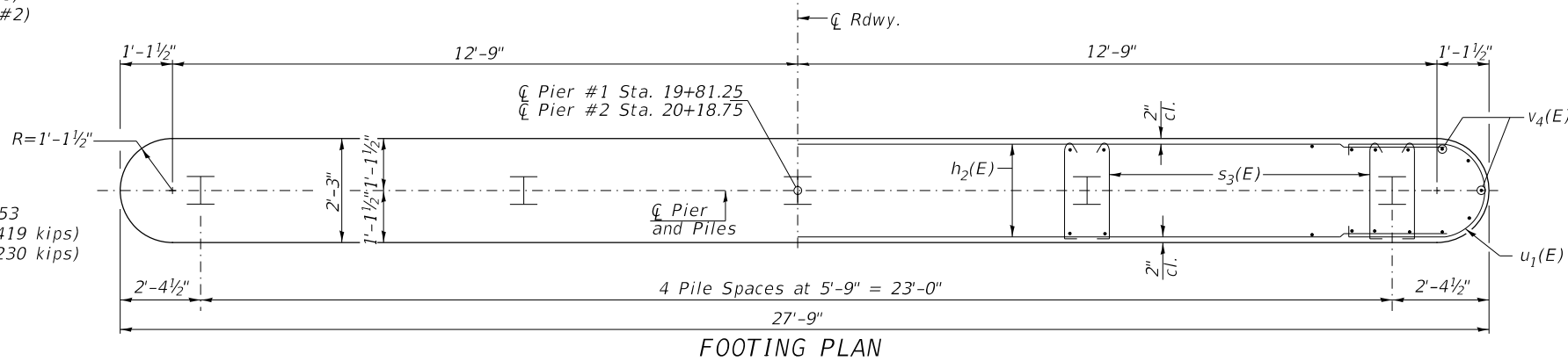


ELEVATION
(Looking East)

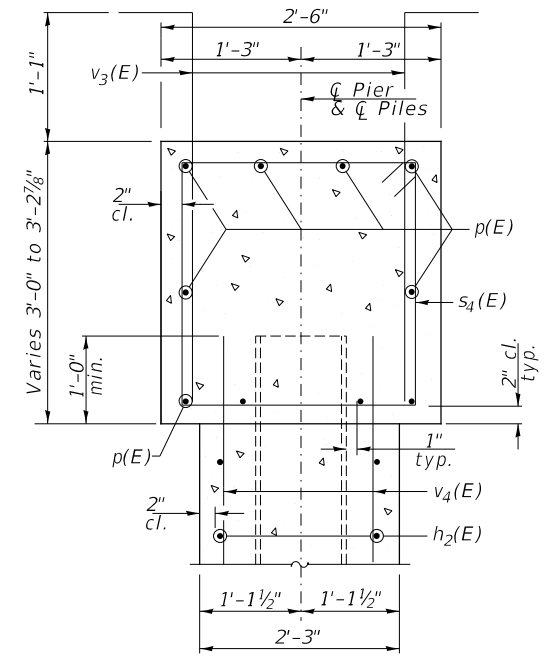
END VIEW **Concrete Encasement (Typ. Each Pile)
±9'-0" (Pier #1)
±11'-0" (Pier #2)

PILE DATA

Type & Size: Steel HP 12x53
Nominal Required Bearing: Set in Rock (419 kips)
Factored Resistance Available: Set in Rock (230 kips)
Est. Length: 32' Pier #1
34' Pier #2
No. Req'd.: 10



FOOTING PLAN

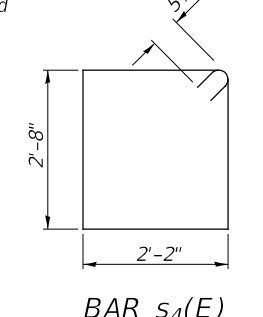


SECTION A-A

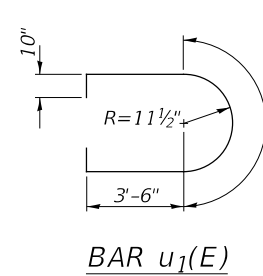
TWO PIERS
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE	
h ₂ (E)	68	#5	25'-6"	—	
p(E)	20	#7	27'-8"	—	
s ₃ (E)	340	#4	2'-9"	⌋	
s ₄ (E)	52	#5	10'-7"	⌋	
u ₁ (E)	68	#5	11'-8"	⌋	
u ₂ (E)	12	#6	9'-9"	⌋	
v ₃ (E)	116	#5	4'-9"	⌋	
v ₄ (E)	120	#5	17'-1"	—	
Concrete Structures				CU YD	90.0
Cofferdam Excavation				CU YD	170
Reinforcement Bars, Epoxy Coated				POUND	7,850
Furnishing Steel Piles HP12x53				FOOT	330
① Setting Piles in Rock				EACH	10
Concrete Encasement				CU YD	11.6
Cofferdam (Type 1) (Location-1) (Pier #1)				EACH	1
Cofferdam (Type 1) (Location-2) (Pier #2)				EACH	1

① See Special Provisions



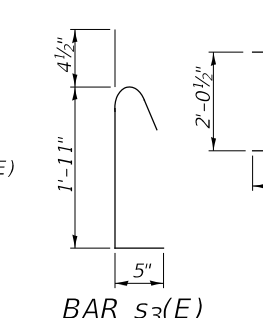
BAR s₄(E)



BAR u₁(E)



BAR v₃(E)



BAR u₂(E)

BAR s₃(E)

PIERS

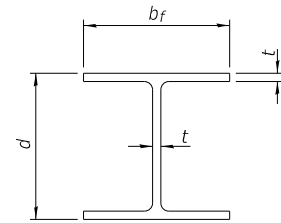
KNOX COUNTY

SECTION 17-00017-01-BR

F.A.S. 393 (COUNTY HIGHWAY 4)

OVER WALNUT CREEK

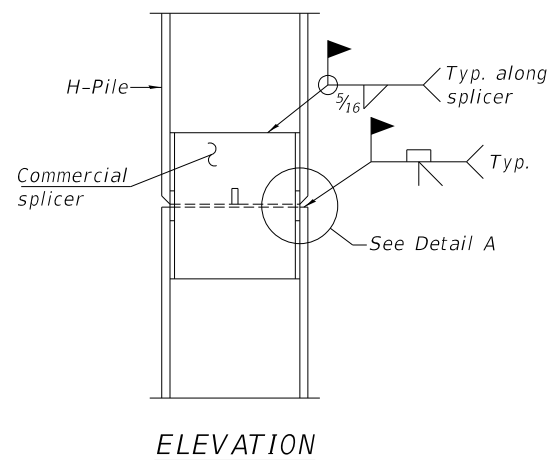
SHEET NO. 7 8 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	393	07-00017-01-BR	KNOX	19	13
	S.N. 048-3393		CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		



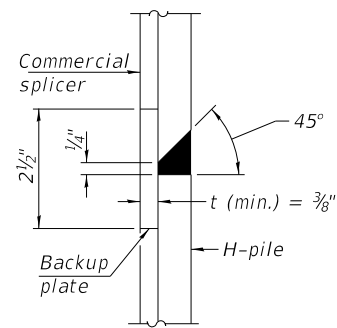
STEEL PILE TABLE

Designation	Depth d	Flange width b_f	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 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	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"

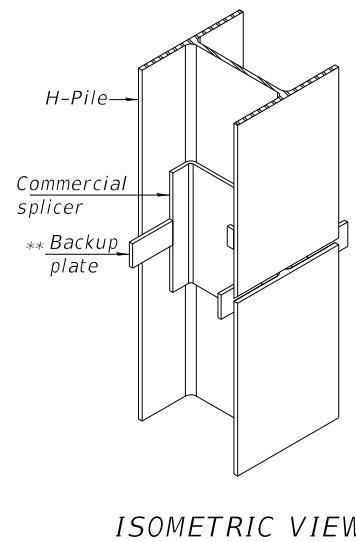
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

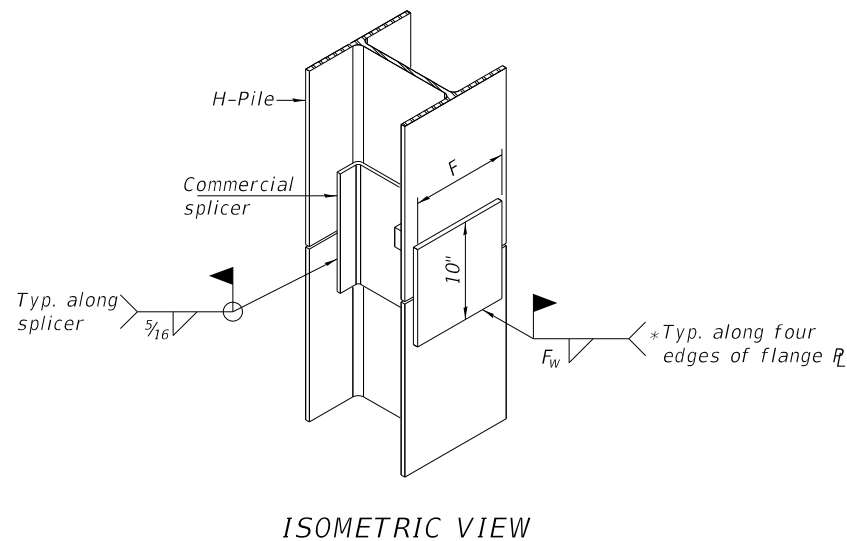


DETAIL A



ISOMETRIC VIEW

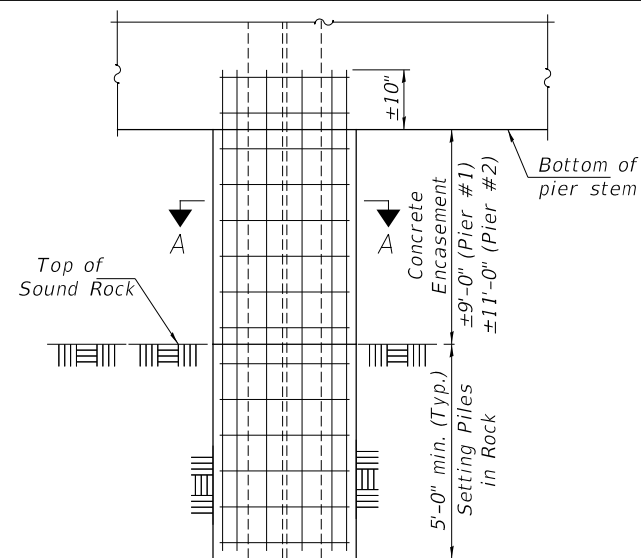
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

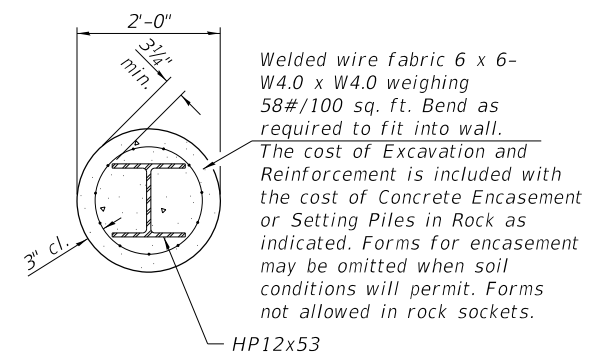
WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.
** Remove portions of backup plates that extend outside the flanges.

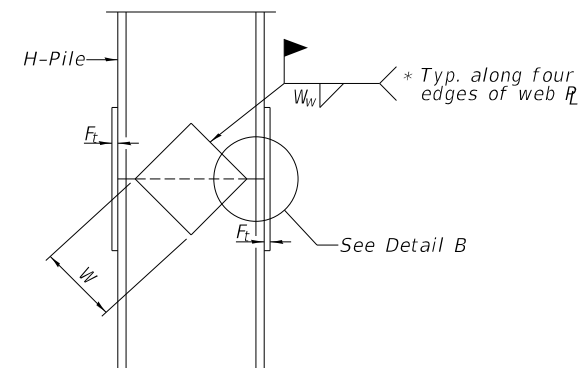


PIER ELEVATION

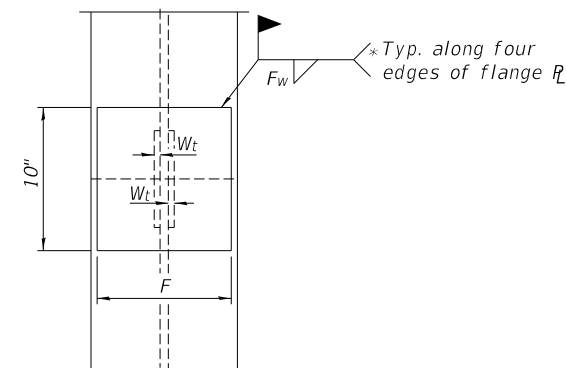
PILE ENCASEMENT



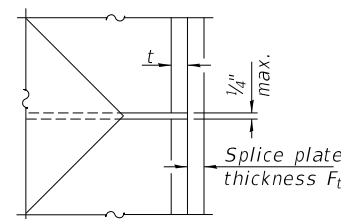
SECTION A-A



ELEVATION



END VIEW



DETAIL B

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
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"

HP PILE DETAILS

KNOX COUNTY

SECTION 17-00017-01-BR

F.A.S. 393 (COUNTY HIGHWAY 4)

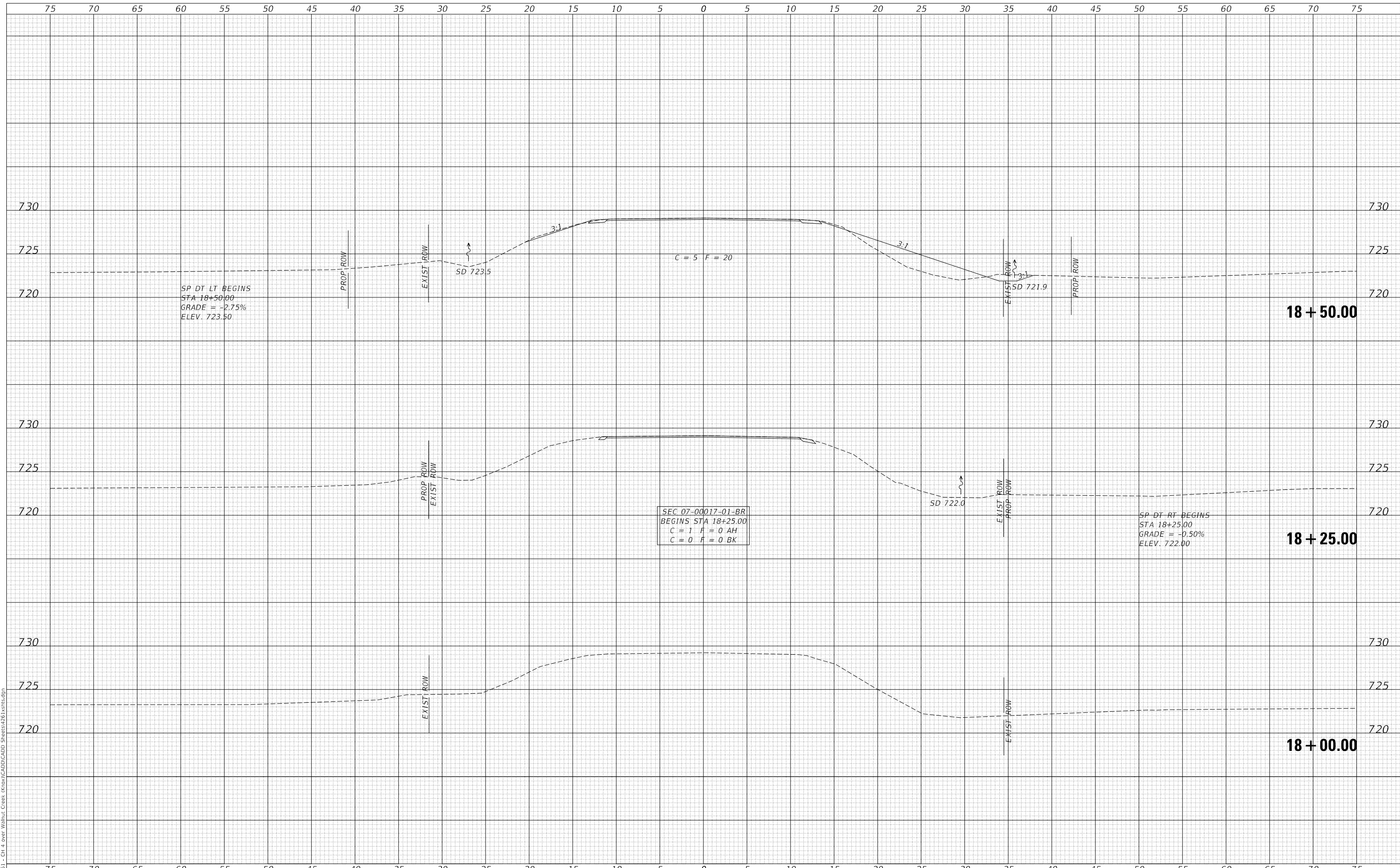
OVER WALNUT CREEK

SHEET NO. 8	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8 SHEETS	393	07-00017-01-BR	KNOX	19	14
S.N. 048-3393			CONTRACT NO. 89474		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID. PROJECT NO. 9WLA(727)		

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

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

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	DRAWN -	REVISED -
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PLOT DATE = 1/30/2019	DATE -	REVISED -

**KNOX COUNTY
COUNTY HIGHWAY 4
OVER WALNUT CREEK**

CROSS SECTIONS

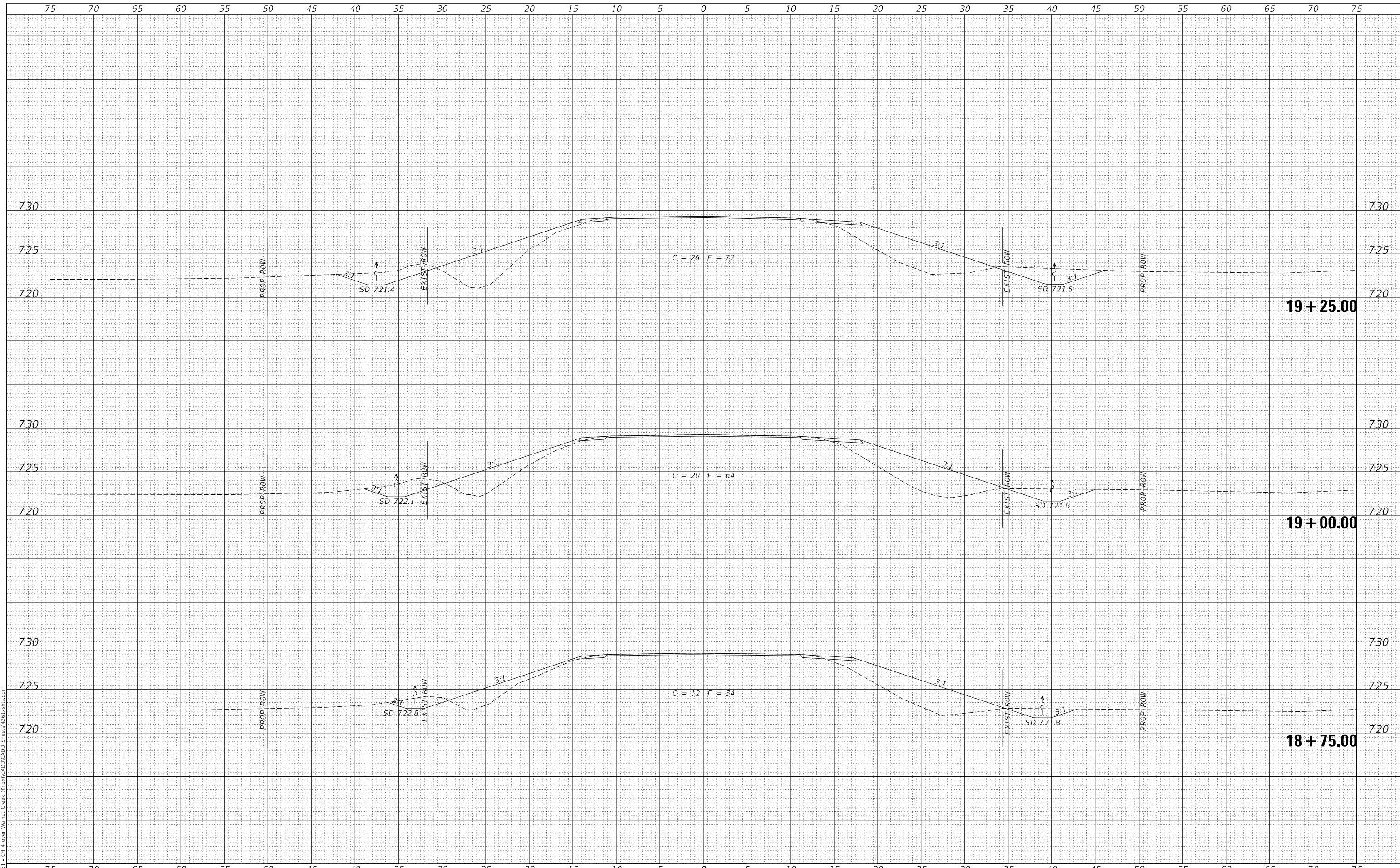
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	15
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				

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

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

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**KNOX COUNTY
 COUNTY HIGHWAY 4
 OVER WALNUT CREEK**

CROSS SECTIONS

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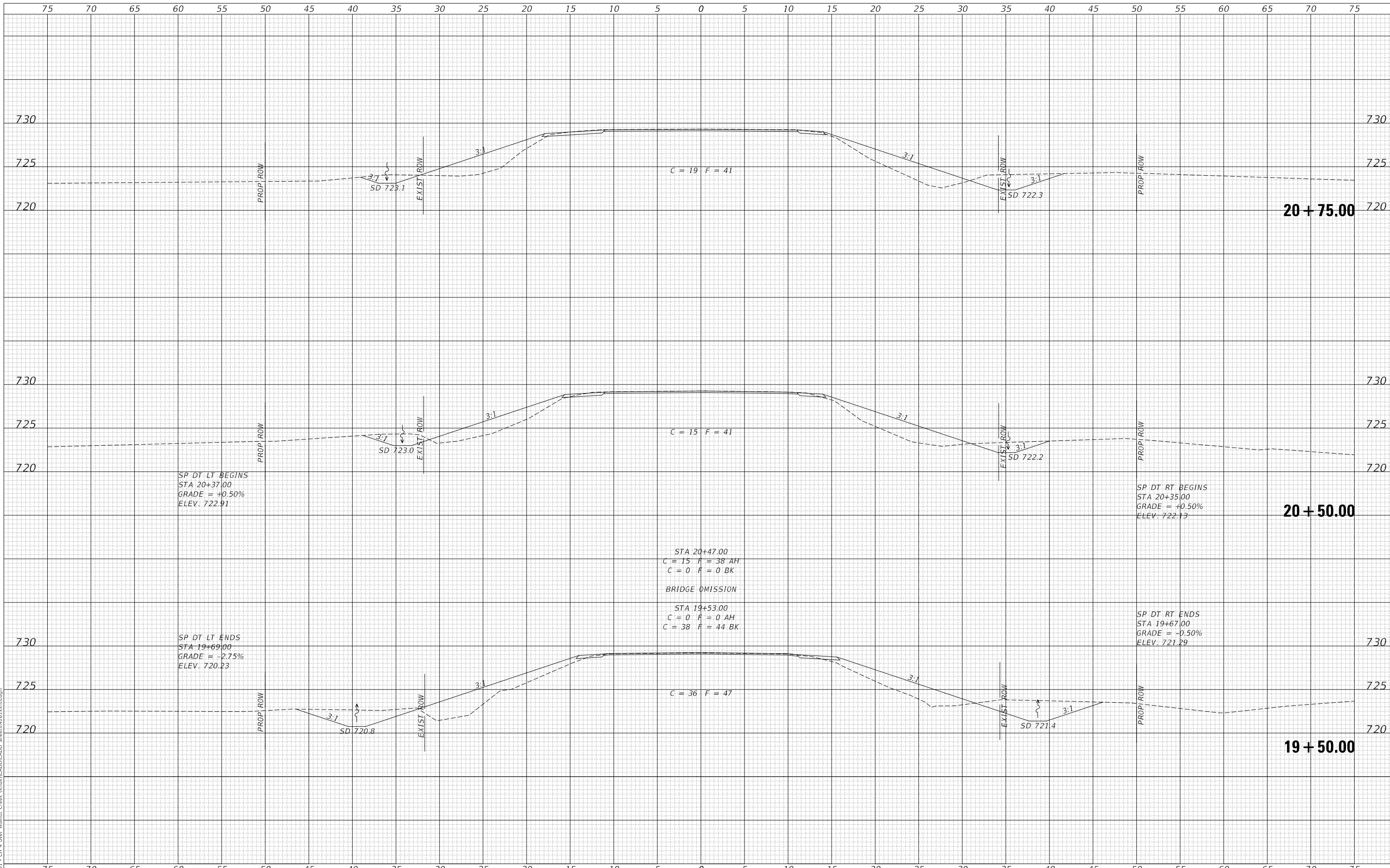
SCALE: 1"=5' SHEET NO. 2 OF 5 SHEETS STA. 18+75.00 TO STA. 19+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	16
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				

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

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

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USER NAME = smierzwa	DESIGNED -	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/30/2019	DATE -	REVISED -

**KNOX COUNTY
 COUNTY HIGHWAY 4
 OVER WALNUT CREEK**

SCALE: 1"=5'
 SHEET NO. 3 OF 5 SHEETS
 STA. 19+50.00 TO STA. 20+75.00

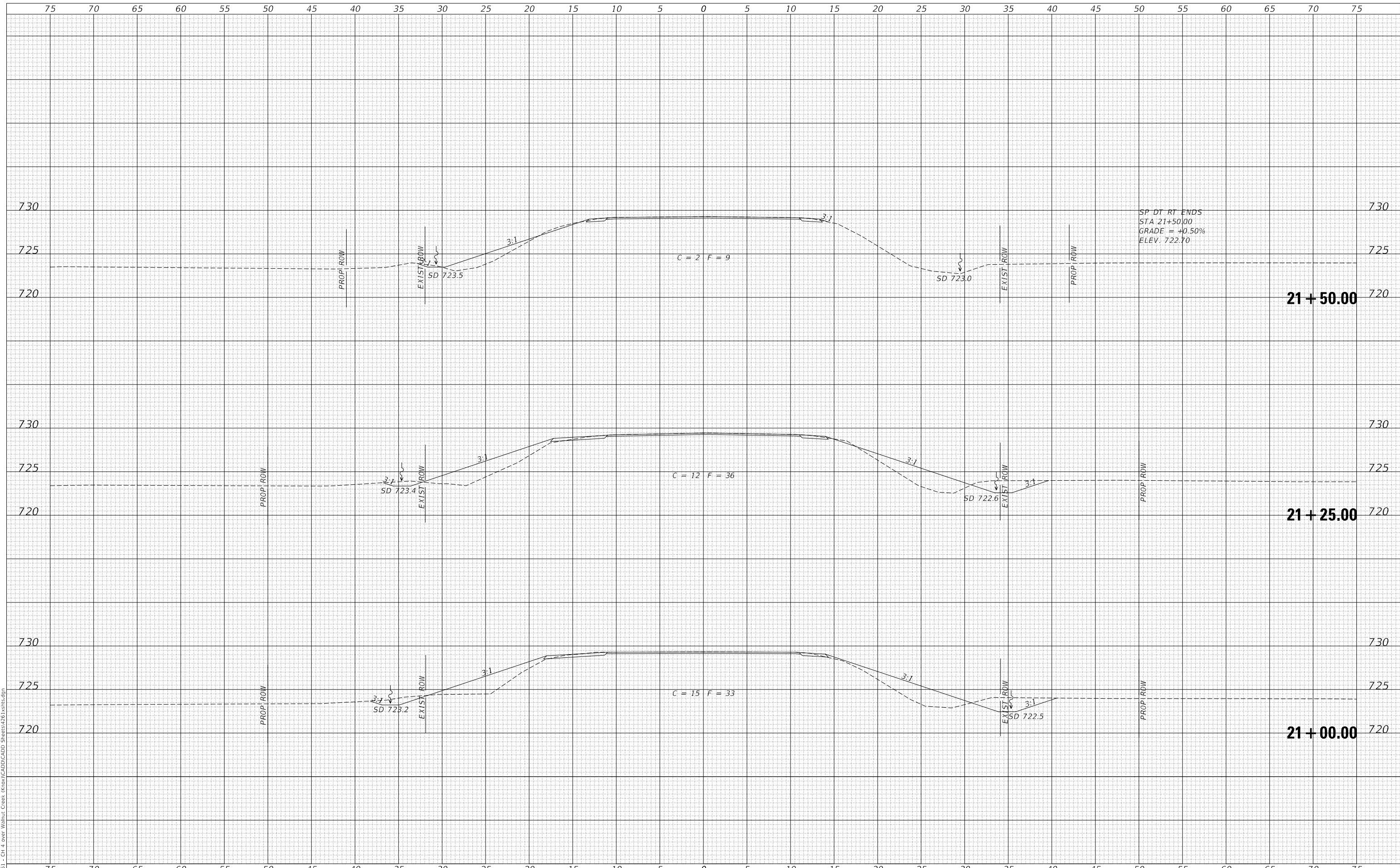
CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	17
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				

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

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SP DT RT ENDS
 STA 21+50.00
 GRADE = +0.50%
 ELEV: 722.70

**KNOX COUNTY
 COUNTY HIGHWAY 4
 OVER WALNUT CREEK**

CROSS SECTIONS

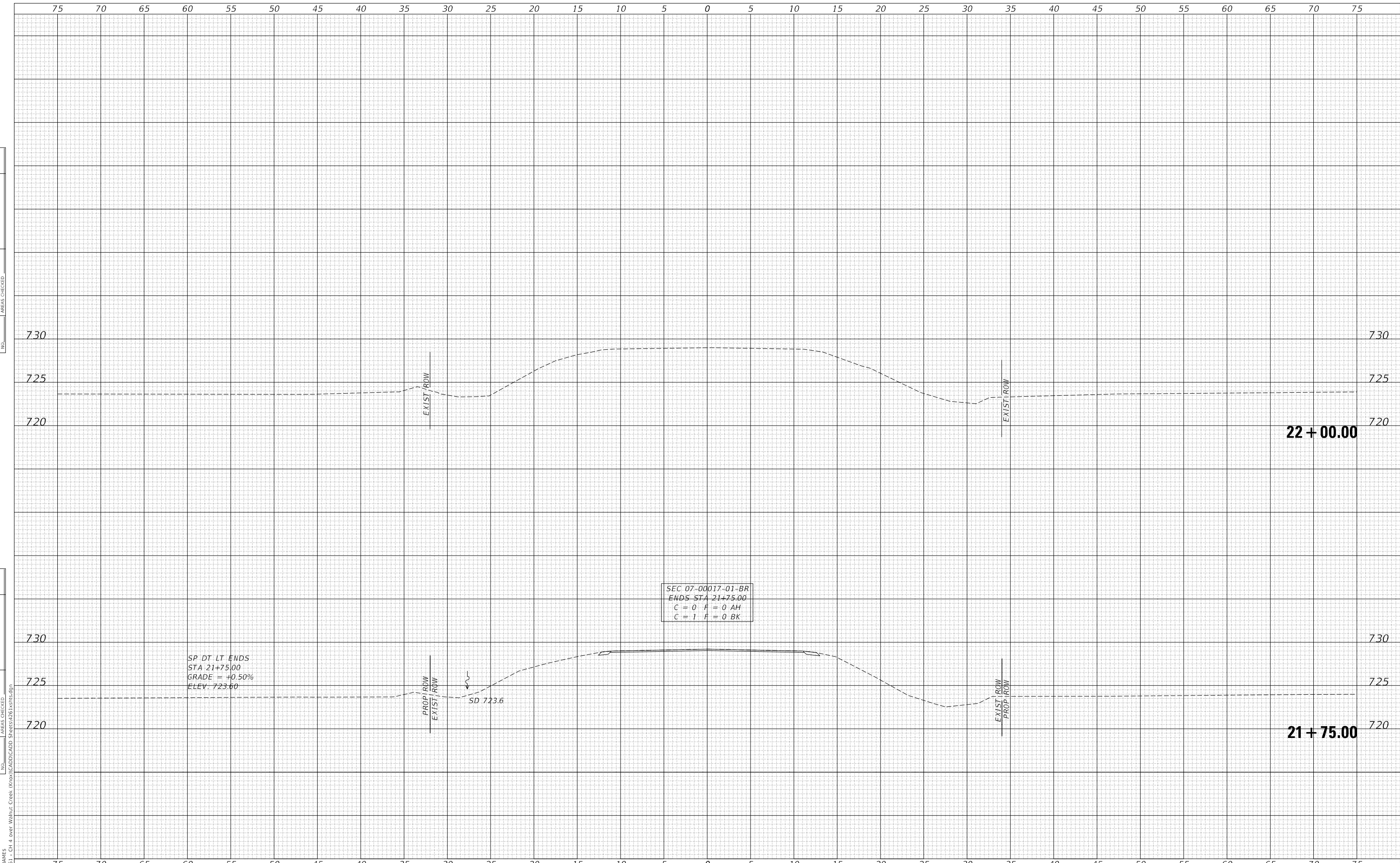
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	DRAWN -	REVISED -
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PLOT DATE = 1/30/2019	DATE -	REVISED -

SCALE: 1"=5'
 SHEET NO. 4 OF 5 SHEETS
 STA. 21+00.00 TO STA. 21+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	18
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				

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

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



SP DT LT ENDS
 STA 21+75.00
 GRADE = +0.50%
 ELEV 723.60

SEC 07-00017-01-BR
 ENDS STA 21+75.00
 C = 0 F = 0 AH
 C = 1 F = 0 BK

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		DRAWN	-	REVISED	-
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PLOT DATE	= 1/30/2019	DATE	-	REVISED	-

**KNOX COUNTY
 COUNTY HIGHWAY 4
 OVER WALNUT CREEK**

CROSS SECTIONS

SCALE: 1"=5' SHEET NO. 5 OF 5 SHEETS STA. 21+75.00 TO STA. 22+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	07-00017-01-BR	KNOX	19	19
CONTRACT NO. 89474				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 9WLA(727)				